

AGENDA
COMMITTEE OF THE WHOLE
May 8, 2018
2200 Harnish Drive
Village Board Room
- AGENDA -
7:30 P.M.

Trustee Steigert – Chairperson
Trustee Sosine
Trustee Spella
Trustee Jasper
Trustee Brehmer
Trustee Glogowski
President Schmitt

1. **Roll Call – Establish Quorum**
2. **Public Comment – Audience Participation** (*Persons wishing to address the Committee on an item on this agenda must register with the Chair prior to roll call.*)
3. **Community Development**
4. **General Administration**
5. **Public Works & Safety**
 - A. Presentation on the Current Condition and the Decorative Elements of the Downtown Streetscape
 - B. Consider an Agreement with Christopher B. Burke Engineering for Work Associated with Land Acquisition, Resubdivision, and Conceptual Plans of Parking Areas
 - C. Consider an Agreement with Christopher B. Burke Engineering Ltd. For the Main Street over Crystal Creek Ph. 3 Services
 - D. Consider an Agreement with Lakeshore Recycling Systems for Street Sweeping
 - E. Consider an Agreement with Lorig Construction Company for Asphalt Material
 - F. Consider an Agreement with Nation Power Rodding for Storm Sewer Structure Cleaning
 - G. Consider an Agreement with H&H Electric Company for Street Light Maintenance
6. **Executive Session**
7. **Other Business**
8. **Adjournment**



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT
PROJECT MANAGER
– M E M O R A N D U M –

DATE: *Thursday, May 3, 2018*
TO: *Robert Mitchard*
FROM: *Shawn M. Hurtig*
SUBJECT: *Downtown Streetscape Existing Conditions*

As requested, please find below and following, information and exhibits on the existing conditions of various elements of the Downtown Streetscape.

EXISTING CONDITIONS

1. ROADWAY
 - a. Video at Old Town Algonquin Website (<http://oldtownalgonquin.org/index.html>)
2. CONSISTENT ELEMENTS
 - a. Pavers
 - b. Stone Walls
 - c. Lighting
3. HVH PLAZA
4. SOUTH MAIN STREET BRIDGE
5. MCCD TRAILHEAD



































VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT
PROJECT MANAGER
– M E M O R A N D U M –

DATE: *Thursday, May 3, 2018*
TO: *Robert Mitchard*
FROM: *Shawn M. Hurtig*
SUBJECT: *Storyboard Guide – Downtown Streetscape*

Below you will find a bullet point format of the storyboards that will be presented at the May 8th, 2018 Committed of the Whole meeting. Along with this memo I will have handouts of the information as well as the full size storyboards for display during my description of the work.

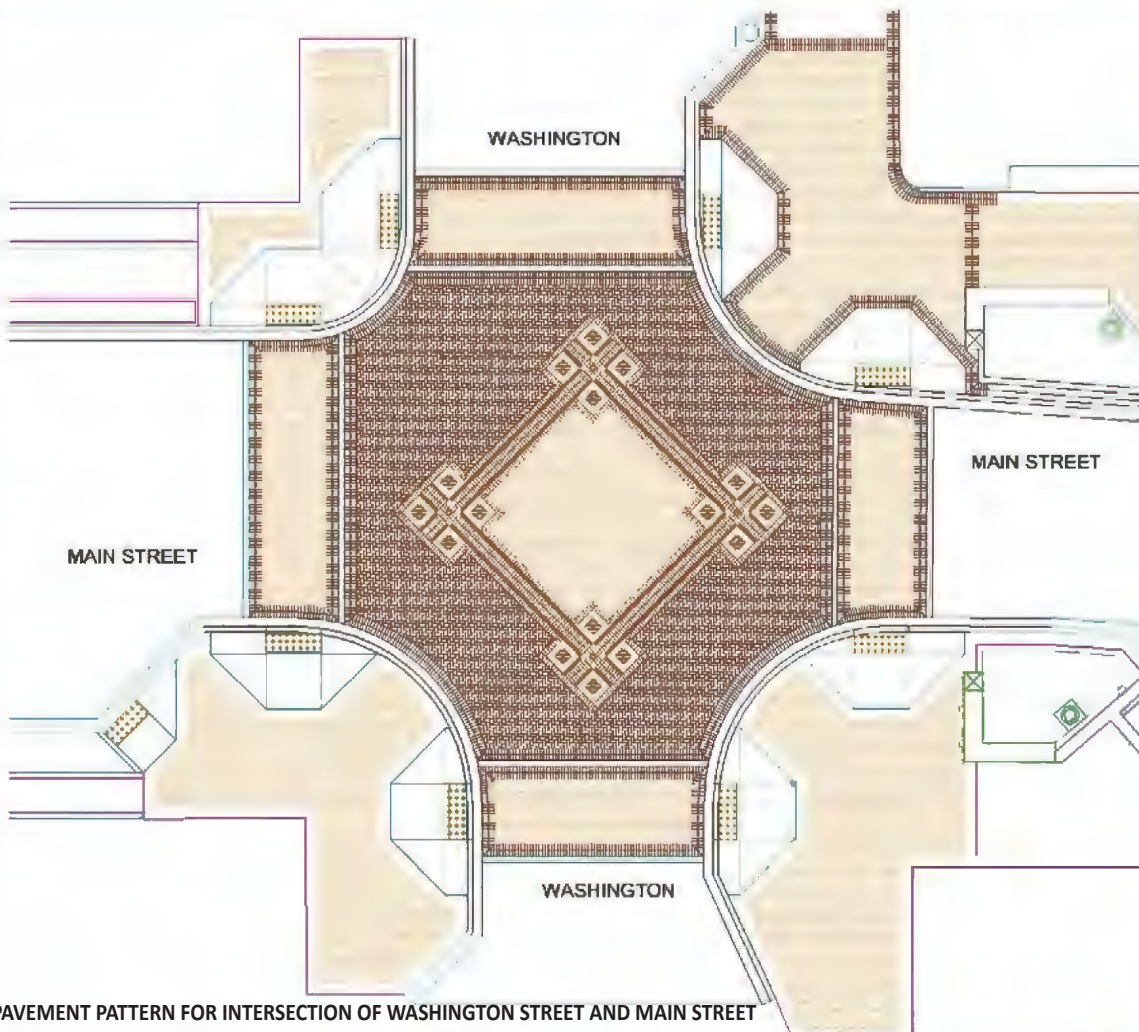
Storyboards

1. Project Overview Map (10' x 3' Exhibit)
 - a. Map of all currently planned improvements as part of the Downtown Streetscape
2. Consistent Elements Storyboard
 - a. Paver intersection design (Washington @ S. Main)
 - b. Typical Paver elements
 - i. Sidewalks will mix ashlar paver design with brick
 - ii. Roadway will have brick parking areas (Main from Washington to Crystal Creek)
 - c. Typical stone seat wall design with column ends
 - d. Street lights (cobra head & acorn)
 - e. Wayfinding Signage (on street lights or as stand-alone poles)
 - f. Trash Receptacle
 - g. Planter Urns (2 different sizes)
3. Historic Village Hall Plaza Storyboard
 - a. Plaza Renderings
 - b. Elements
 - i. Fireplace
 - ii. Stone benches & columns
 - iii. Flagpoles
 - iv. Small performance stage
 - v. Small seating area
 - vi. Decorative Lighting (Bollard & Tivoli)
 - vii. Landscaping
4. S. Main St. CC Bridge
 - a. Bridge Renderings
 - b. Elements
 - i. Steel Pergola
 - ii. Stone benches & columns
 - iii. Planter Urns & Hanging Baskets
 - iv. Gateway Arch
 - v. Decorative Railings
 - vi. Decorative Lighting (Arch & Pergola)

5. North, Midblock, & South Gathering Areas, Riverwalk, Alley-way
 - a. Gathering Area Renderings
 - i. Riverwalk Elements
 1. 8' pedestrian paved path
 2. Public Art Display Areas
 3. Landscaping
 4. Bollard Lighting
 - ii. Main St. Gathering Area Elements
 1. Stone benches & columns
 2. Landscaping
 3. Planter Urns
 4. Power
 - iii. Alley-way
 1. Mini Gateway Arch
 2. Paver Walkway
 3. Planter Urns & Hanging Baskets
 4. Decorative Lighting
6. MCCD Prairie Trailhead Gathering Area & South Entry Monuments
 - a. Trailhead Rendering
 - b. Monument Sign Design
 - c. Trailhead Elements
 - i. Steel Arbor
 - ii. Public Art Display Area
 - iii. Stone benches & columns
 - iv. Drinking Fountain
 - v. Power
 - vi. Landscaping

VILLAGE OF ALGONQUIN DOWNTOWN REDEVELOPMENT PLAN





PAVEMENT PATTERN FOR INTERSECTION OF WASHINGTON STREET AND MAIN STREET



STONE COLUMN AND BENCH



WAYFINDING SIGNAGE CONCEPT



PEDESTRIAN LIGHTING STANDARD AS FOUND IN TOWNE PARK



OVERHEAD ROADWAY LIGHT CONCEPT



ASHLAR PAVERS



TREE GRATE



HERRINGBONE BRICK WALK



TRASH RECEPTACLE



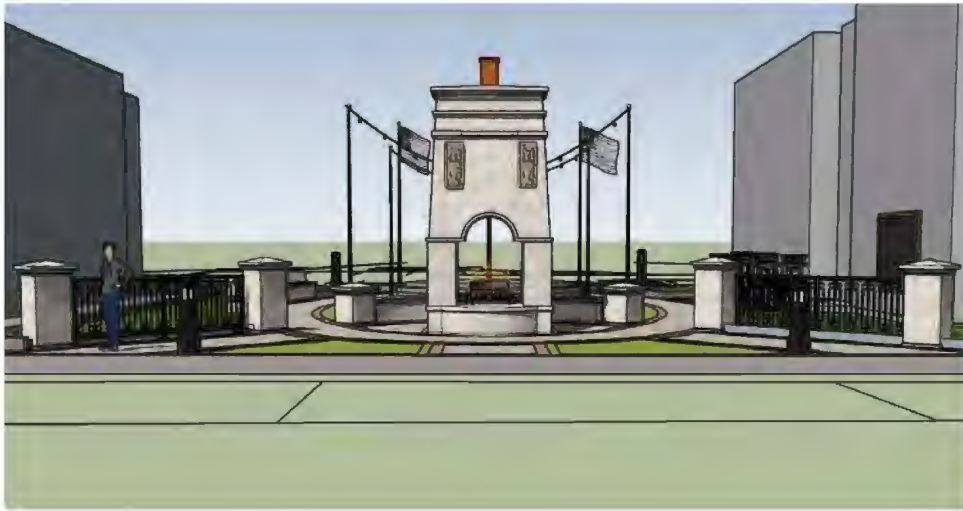
LOW URN



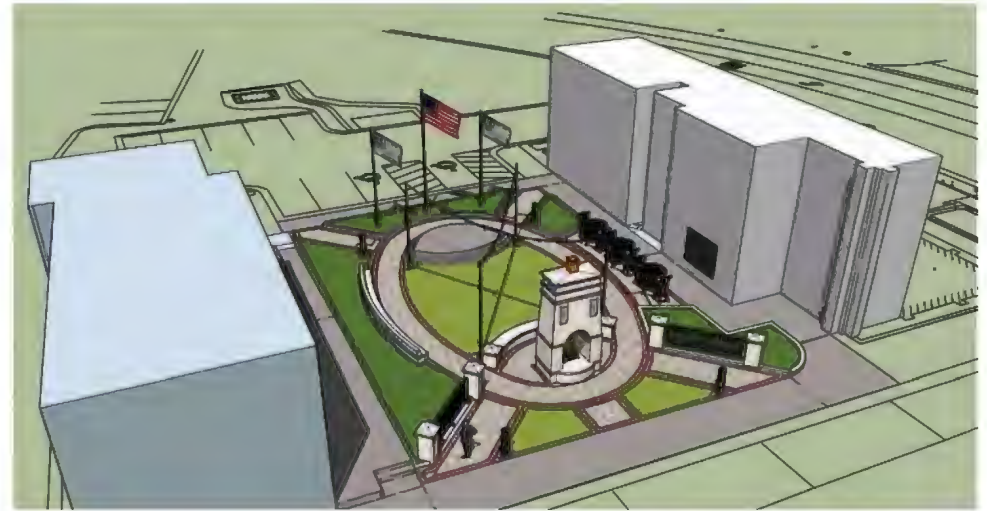
TALL URN

CONSISTENT ELEMENTS

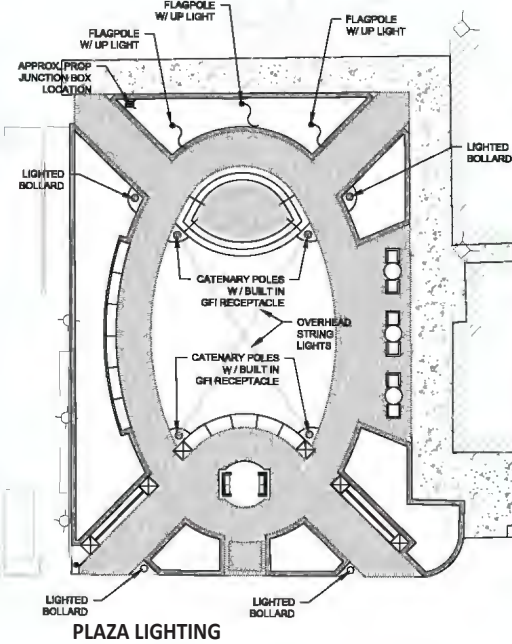




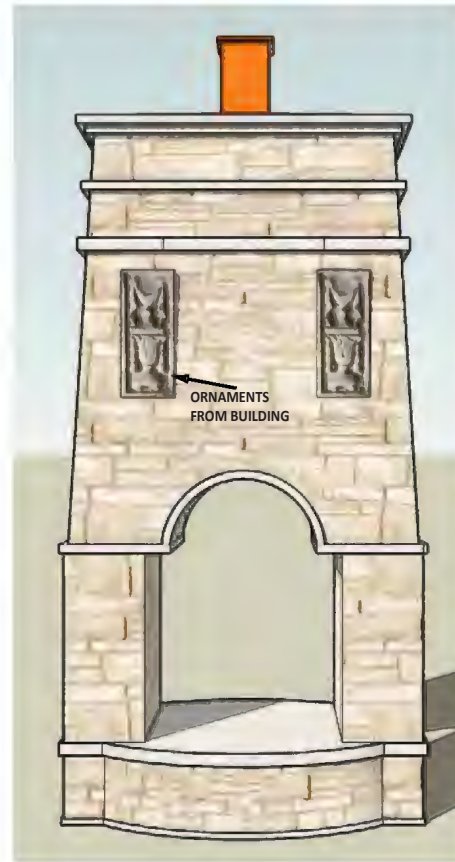
VIEW OF PLAZA FROM MAIN STREET LOOKING WEST



OVERALL VIEW OF PLAZA



PLAZA LANDSCAPING



TWO-SIDED FIREPLACE



BUECHEL FOND DU LAC RUSTIC



BUECHEL FOND DU LAC COUNTRY SQUIRE



HISTORIC VILLAGE HALL PLAZA



MAIN STREET BRIDGE OVERVIEW WITH ARCH REMOVED



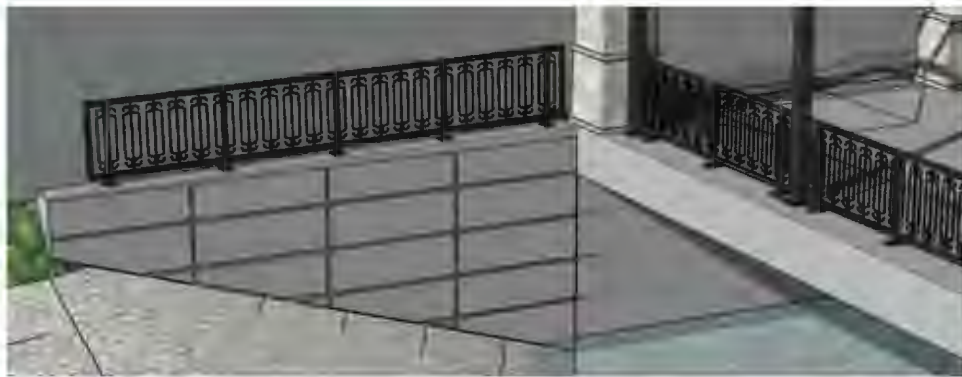
DIAGONAL SEATING ON BRIDGE



BRIDGE STONE COLUMN WITH CRYSTAL CREEK PLAQUE



BRIDGE GATEWAY ARCH



DETAIL OF BRIDGE ABUTMENT



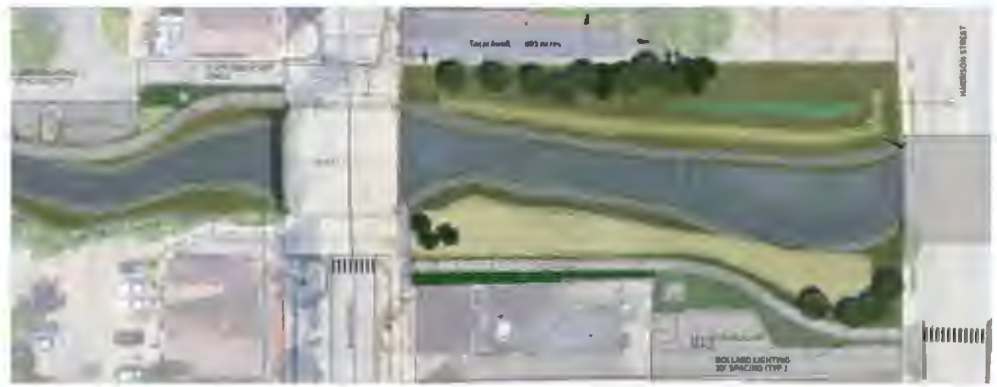
PLAN VIEW OF BRIDGE



SOUTH MAIN STREET CRYSTAL CREEK BRIDGE



RIVERWALK LOOKING SOUTHEAST



RIVERWALK LANDSCAPE RENDERING



RIVERWALK LOOKING SOUTHWEST



ARC BENCH GATHERING AREA



MIDBLOCK GATHERING AREA



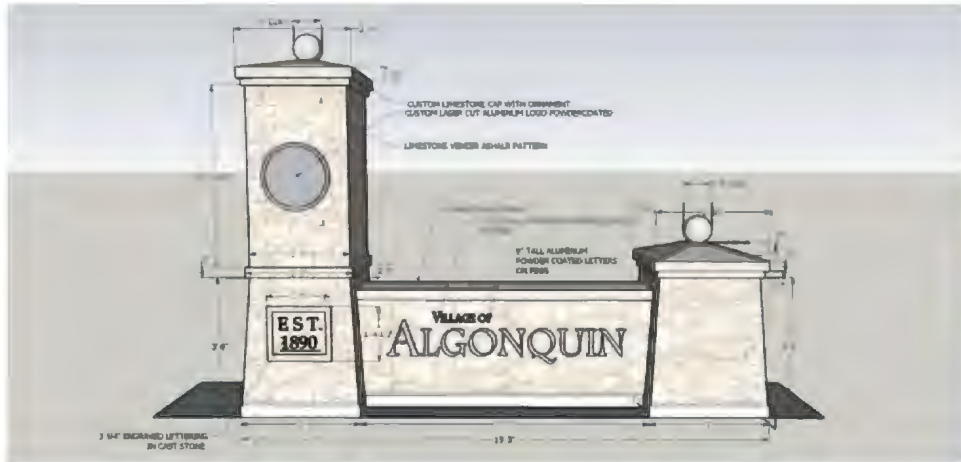
CONCEPT FOR ALLEYWAY ARCH



NORTH, MIDBLOCK, SOUTH GATHERING AREAS, RIVER WALK & ALLEY WAY



PRAIRIE TRAIL GATHERING AREA



SOUTH GATEWAY DETAILS



BUECHEL FOND DU LAC RUSTIC



BUECHEL FOND DU LAC COUNTRY SQUIRE



Prairie Trail at Main Street Streetscape
Village of Algonquin / McHenry County Conservation District



MCCD PRAIRIE TRAILHEAD GATHERING AREA & SOUTH ENTRY MONUMENTS





VILLAGE OF ALGONQUIN

PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: April 24, 2018

TO: Tim Schloneger, Village Manager
Committee of the Whole

FROM: Robert Mitchard, Public Works Director

SUBJECT: Parking Lot Consulting Engineering
Agreement – S. Harrison Street

Attached, you will find an engineering agreement with Christopher B. Burke Engineering for the work associated with land acquisition, resubdivision, and conceptual plans of the parking areas behind all the businesses fronting on S. Main Street and backing up to S. Harrison Street, which includes the public parking areas currently owned by the Village of Algonquin.

In order to revitalize this area of downtown, ample and convenient parking for the businesses is critical. The streetscape project will decrease the number of available parking spaces on Main Street, between Route 62 and the Route 31 Bypass. Although this reduction is not significant, we feel that it is very important to increase the available parking behind the businesses and make the parking lot more accessible and friendlier for customers who choose to visit our downtown vendors.

We have also provided a verbal description of the property owners and the disposition of their individual properties and design concerns. Additionally, graphical representations show the impacted area and the relationships of property ownership and a preliminary visual of how the proposed parking area might look when completed.

Work scoping of the project includes handicapped spaces, lighting, combined strategic locations for dumpster enclosures, undergrounding of overhead utilities, coordination with the Riverwalk and Main Street Pedestrian Walkways, and drainage improvements for private and public spaces.

The Public Works Department recommends that the Committee of the Whole take the necessary action authorizing the Board of Trustees to enter into an agreement with CBBEL for \$43,351.00 involving property rights acquisition and conceptual design services to improve the parking areas on S. Harrison Street.

**Consulting Engineering
Master Agreement Work Order Form**

I. Incorporation of Master Agreement

All terms and conditions contained within the Village Engineer Master Agreement executed between the parties shall be applicable to the work to be performed under this Work Order and shall be deemed to be fully incorporated as if fully set forth herein.

II. Project Understanding

A. General Understanding/Assumptions

We understand the Village would like to reconstruct, reconfigure the parking lots behind the Main Street businesses and Harrison Street (between Washington Street and Crystal Creek) into a single large parking lot. The reconfigured parking lot will be shared between the businesses and the public and will include a public walkway between Harrison Street and Main Street. The parking lot will be owned and maintained by the Village.

B. Design Criteria
Village, IDOT

III. Scope of Services

A. Surveying Services

Task A.1 – Obtain Title Commitment Reports: CBBEL will order and obtain current title commitment reports for the 13 parcels affected by this project.

Task A.2 – Review of the Title Commitment Reports: Once received, CBBEL will review each of the 13 title commitment reports acquired in Task 1.1 for any existing easements or encumbrances that may affect any of the 13 parcels.

Task A.3 – Existing Conditions Exhibit: Utilizing the information from the title commitment reports in Tasks 1.1 and 1.2, CBBEL will prepare an existing conditions exhibit showing the existing property lines, land owners and existing easements or encumbrances that may affect any the 13 parcels for this project.

Task A.4 – Plat of Easement (Option No. 1): CBBEL will prepare a Plat of Easement for any access, parking area, utilities, etc. that may be needed for the project area suitable for submittal to and approval by the Village.

Task A.5 – Plat of Surveys for Permanent Takes (Option No. 2): CBBEL will prepare individual Plats of Surveys for each of the 13 parcels within the project area if needed in accordance with current Illinois Boundary Survey Standards.

B. Engineering Services

Task B.1 – Concept Parking Plans: CBBEL will design and prepare concept plans for the new reconfigured parking lot. We anticipate up to two (2) alternate concept plans will be prepared. The plans will be designed to best accommodate the businesses and the public and maximize the number of spaces. The concept plans will include at a minimum:

- ADA Spaces
- Preliminary Lighting Layout
- Dumpster Enclosures for all Businesses
- Undergrounding of Existing ComEd Lines
- Coordination with Riverwalk
- Drainage improvements as identified in previous discussions

Task B.2 Concept Cost Estimate: CBBEL will prepare concept level cost estimates for the alternate concept parking lot plan(s).

Task B.3 Midblock – Decorative Alleyway – Pedestrian Arch: CBBEL will prepare schematic level design of the Alleyway and create color renderings of the pedestrian arch for Village Staff review and approval. Prepare details and sufficient information for bidding.

Task B.4 Storyboards: CBBEL will prepare 6 storyboards illustrating the various aspects of the Streetscape project. The boards will be full color and mounted.

C. Meetings/Coordination

We have included two (2) meetings in this Work Order Form. We anticipate one meeting with Village Staff to review the concept plan(s) and one with Village Staff and business owners.

D. Deliverables

8 copies (24"x36") concept parking plans (color)
8 copies (24"x36") concept parking plans (b&w)
8 copies (24"x36") plat of easement (b&w)
6 Full color & mounted (34"x 44") Storyboards

IV. Man-Hour & Fee Summary

A. Survey Services

Task A.1 – Obtain Title Commitment Reports:

Direct Costs				\$5,850
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Task A.2 – Review of the Title Commitment Reports:

Survey IV	13 hours x \$115	=		\$1,495
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Task A.3 – Existing Conditions Exhibit:

Survey IV	4 hours x \$115	=		\$460
CAD Manager	4 hours x \$121	=		<u>\$484</u>
				\$944

Task A.4 – Plat of Easement (Option No. 1):

Survey IV	8 hours x \$115	=		\$920
CAD Manager	8 hours x \$121	=		<u>\$968</u>
				\$1,888

Task A.5 – Plat of Surveys for Permanent Takes (Option No. 2):

Survey I	10 hours x \$67	=		\$670
Survey II	10 hours x \$86	=		\$860
Survey IV	32 hours x \$115	=		\$3,680
CAD Manager	52 hours X \$121	=		<u>\$6,292</u>
				\$11,502
			Subtotal Task A	\$21,679

Task B.1 – Concept Parking Plans:

Engineer VI	20 hrs x \$184/hr	=		\$3,680
Engineer V	20 hrs x \$150/hr	=		\$3,000
Engineer III	32 hrs x \$112/hr	=		\$3,584
Landscape Architect V	16 hrs x \$150/hr	=		<u>\$2,400</u>
				\$12,664

Task B.2 Concept Cost Estimate:

Engineer VI	2 hrs x \$184/hr	=		\$368
Engineer V	4 hrs x \$150/hr	=		\$600
Engineer III	8 hrs x \$112/hr	=		\$896
Landscape Architect V	4 hrs x \$150/hr	=		<u>\$600</u>
				\$2,464

Task B.3 Midblock – Decorative Alleyway – Pedestrian Arch:

Engineer VI	2 hrs x \$184/hr	=	\$368
Landscape Architect V	12 hrs x \$150/hr	=	<u>\$1,800</u>
			\$2,168

Task B.4 Storyboards:

Engineer VI	4 hrs x \$184/hr	=	\$736
Landscape Architect V	16 hrs x \$150/hr	=	\$2,400
Admin	8 hrs x \$30/hr	=	<u>\$240</u>
			\$3,376
Subtotal Task B			<u>\$20,672</u>

Direct Costs

A. Survey Expenses: See Task A.1

B. Engineering Expenses: \$500

C. Meetings/Coordination: \$500

PROJECT TOTAL **\$43,351**

VILLAGE OF ALGONQUIN

Accepted by: _____

Title: _____

Date: _____

CHRISTOPHER B. BURKE ENGINEERING, LTD.

Accepted by: 

Title: Executive Vice President

Date: 4/19/18

CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES

<u>Personnel</u>	<u>Charges (\$/Hr)</u>
Principal	210
Engineer VI.....	184
Engineer V	150
Engineer IV	121
Engineer III.....	112
Engineer I/II.....	91
Survey V	150
Survey IV.....	115
Survey III.....	110
Survey II	86
Survey I.....	67
Resource Planner V	102
Resource Planner IV	97
Resource Planner III	88
Resource Planner II.....	80
Engineering Technician IV	115
Engineering Technician III	95
Engineering Technician I/II.....	87
CAD Manager.....	121
Assistant CAD Manager	115
CAD II	112
CAD I.....	87
GIS Specialist III	107
GIS Specialist I/II	60
Environmental Resource Specialist V	133
Environmental Resource Specialist IV	121
Environmental Resource Specialist III	102
Environmental Resource Specialist II.....	83
Environmental Resource Technician	78
Administrative	79
Engineering Intern	46
Survey Intern	46
Information Technician III	84
Information Technician I/II	54

S. Harrison properties

✓ 103 S. Main – Sam Bianchi

March 13 meeting notes

- Building has 2 business storefronts & 4 residential apartments
- Sam owns alleyway alongside his building
- Sam had agreement – possibly just informal – with Diana Wood to pull in / out of rear garage 5-10' onto her property
- Asked if he can get back parking / loading space on Main Street in front?

✓ 113 S. Main – Randy Errington

February 15 meeting notes

- Randy proposed land swap with village, for portion of Diana Wood's old property to use for outdoor seating
- Asked if possible to relocate grease trap outside the building while work is being done?
- Currently has a shared garbage dumpster with Sam at 103 S. Main

✓ 119 S. Main – Gabriele Gutierrez

February 15 meeting notes

- Building has 3 business storefronts and 6 residential apartments
- Gabriele is okay with converting her alleyway alongside her building to a pedestrian walkway but asked who would assume liability if public trips / falls?
- Would need to keep side entrance for photography studio business that is accessed via alleyway
- Would be very interested in overnight parking spaces for her apartment tenants
- Gabriele mentioned she still has flooding problems behind her building, caused by her being in a low spot as well as from runoff coming off Carlos Tequila Grill building

✓ 123 S. Main – Bill Hellyer

February 15 meeting notes

- Bill is fine with either giving easement or having village acquire his small parking area behind the building

✓ 201 S. Main – Steve Laird

March 13 meeting notes

- Steve explained funeral home only has a few services, on average just 5 per month
- They know a couple days in advance when the services are scheduled
- Steve mentioned they've had issues in the past with customers / residents from nearby businesses and buildings using the funeral home lot so they've put up rope to close off entrance at S. Harrison
- They need 30+ dedicated spaces for a service, but open to the shared parking concept

- ✓ 203 S. Main – Jeff Hicks
March 13 meeting notes
 - Jeff said they are trying to recruit a business for the first floor again
 - Would like to retain a few spaces behind the building for upstairs apartment tenant

- ✓ 205 S. Main – Jim Lendmann (*property sold March 1 to Tony Bellino)
February 15 meeting notes
 - Jim said Reese's used to produce a lot of garbage with multiple weekly pick-ups
 - He is okay with removing concrete half wall behind building that enclosed dumpster area
 - Jim mentioned there is a problem with a low spot and drainage behind building

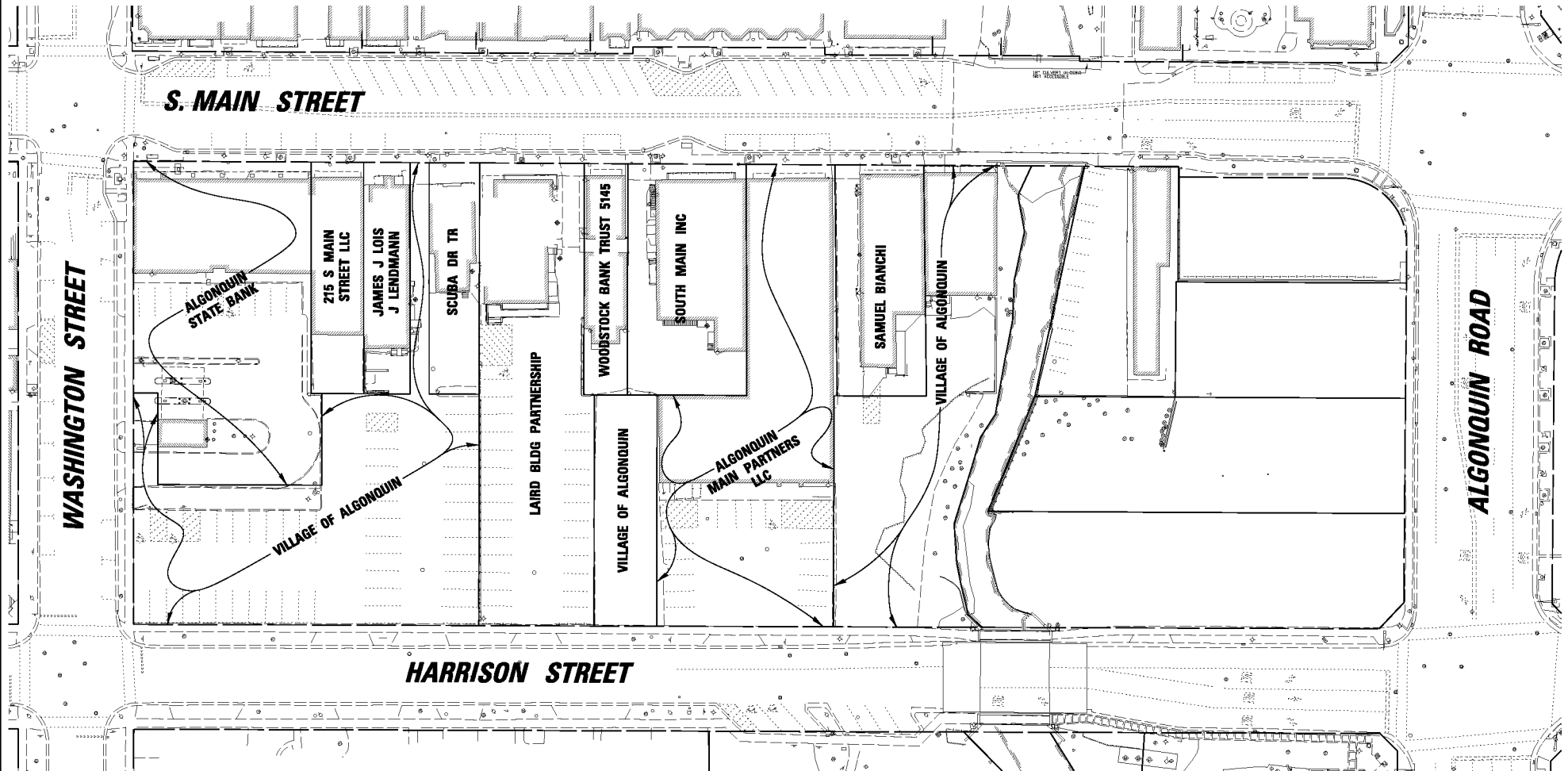
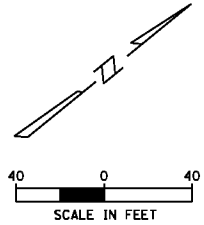
- ✓ 215 S. Main – Cassandra Thuneman
February 15 meeting notes
 - Cassandra would like to retain a couple spaces behind the building if possible
 - Her business uses / disposes of a lot of cardboard boxes and suggested recycling containers be included within any new dumpster enclosure

- ✓ 221 S. Main – Algonquin State Bank: Jeff Kroeger and Steve Karaba
February 12 meeting notes
 - Bank does not have any plans to re-open drive-up building
 - Only functional part of drive-up building is ATM machine, which bank willing to relocate on back side of main building
 - Bank would like to have first row of parking behind their building reserved for bank parking
 - Otherwise they are very open to working with village on the project

General issues

- Easement vs. Acquisition
- Maintenance: landscaping; snow removal; striping; etc
- Overnight Parking
- Trash Enclosures

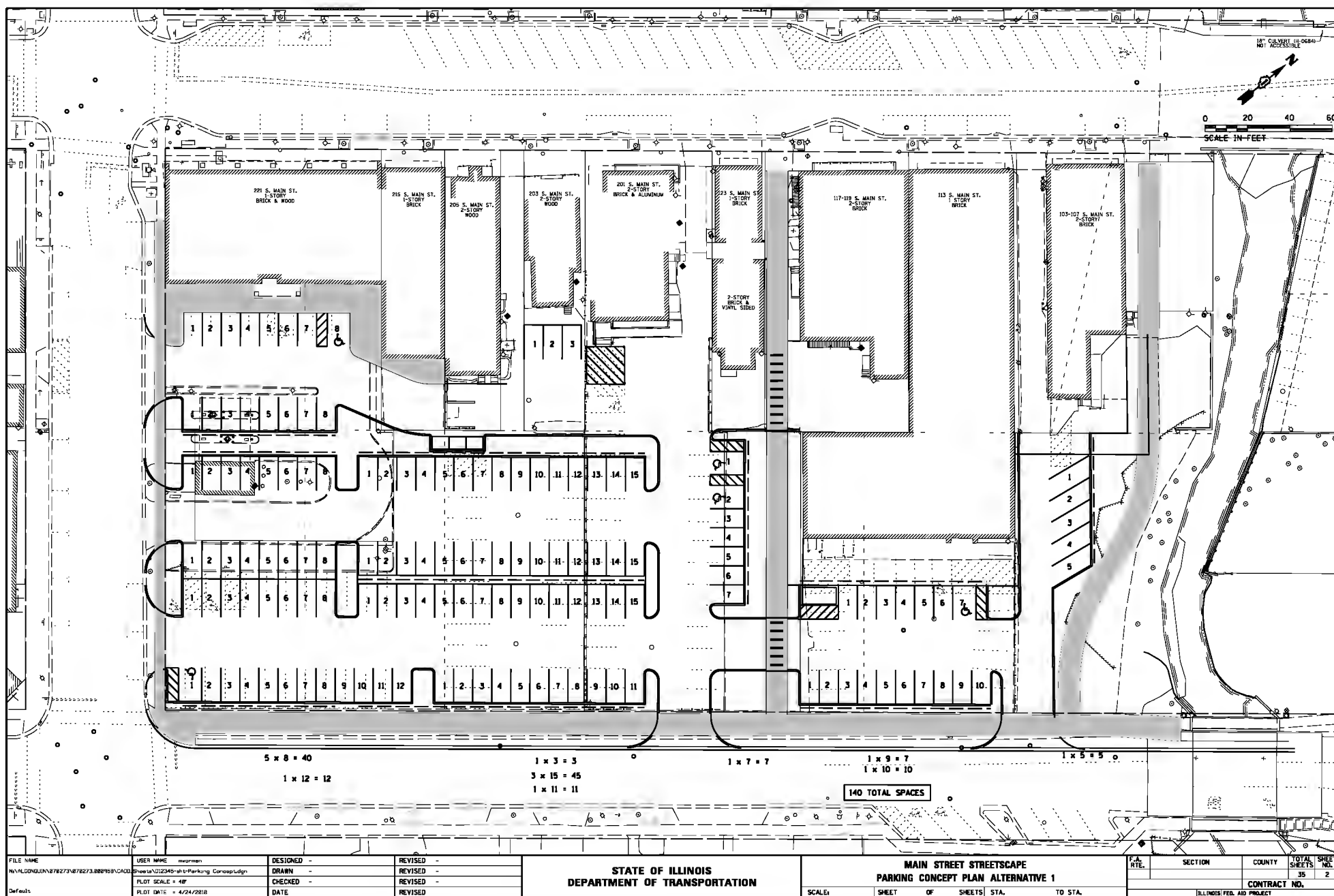
OWNERSHIP EXHIBIT



CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

OWNERSHIP EXHIBIT
IN
VILLAGE OF ALGONQUIN, ILLINOIS
PREPARED FOR
VILLAGE OF ALGONQUIN

CALC.	KJR	PROJECT NO.
DWN.	AJK	070273.00095
CHKD.	JRM	SHEET 1 OF 1
SCALE:	1" = 40'	DRAWING NO.
DATE:	03-16-2018	OWNER 070273-95A





VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: Friday, April 27, 2018
TO: Mr. Robert Mitchard, II
FROM: Mr. Shawn M. Hurtig
SUBJECT: *Letter of Recommendation –Inspectional Services*

I have reviewed the received proposals for the Request for Proposals (RFP) on the **Main Street over Cyrstal Creek Ph. 3 Services** project in the Village of Algonquin. Please recall that due to the project being IDOT funded (partially) that Village typically only uses our Village Engineering Firm for Construction Management services. As such only CBBEL was sent the Request for Proposal (RFP), which included not only project inspection, but also Ph. 3 design services (shop drawing review). I reviewed CBBEL's proposal with an emphasis on their understanding of the project. With that I have the following comments and recommendation.

Proposal Analysis:

Per the RFP CBBEL submitted a cost based on the RFP for pre-construction activities, shop drawing review, observation, documentation, as well as QA Material Testing. As the designer of the project, it is very appropriate that CBBEL also conduct the shop drawing reviews of this project, which will consist of not only structural elements, but various electrical and decorative items. Village. While the proposal does not indicate the onsite personnel that will be used by CBBEL for construction observation, all previous experience with inspectors from CBBEL over the last 5 years has been very positive. CBBEL is acutely aware of the need to have a Resident Engineer that is well versed in IDOT form work and processes.

Based on all the above mentioned information it is my recommendation that you consider **Christopher B. Burke Engineering, Ltd** for this project.

Budget Analysis:

The Village did not specifically budget an amount for this project as it was originally included in the Stage 1 section of the Downtown Streetscape. In the FY2018/19, there is as a prorated amount of \$945,000.00 in 04900300-45593 as part of the Design Build for inspectional services. Considering the track we have been on, the \$945K should sufficiently cover the remaining design build inspection, as well as this proposal. The estimated cost of services of the recommended firm is in the amount of **\$224,986.91**. This contract will be paid on actual hours of listed personnel listed in the rate sheet for the project.

Schedule Analysis:

Inspectional Services Proposal Recommendation to COTW = 5-8-18

Inspectional Service proposal to Full Board = 5-15-18

Start of Construction = 6-4-18

End of Construction = 12-29-18

Please confirm this recommendation so that I may prepare the award and contract. Should you have any questions, comments, or concerns, please do not hesitate to contact me.

Consulting Engineering
Master Agreement Work Order Form

I. Incorporation of Master Agreement

All terms and conditions contained within the Village Engineer Master Agreement executed between the parties shall be applicable to the work to be performed under this Work Order and shall be deemed to be fully incorporated as if fully set forth herein.

II. Project Understanding

A. General Understanding/Assumptions

It is our understanding that the Village is seeking a qualified consulting firm to provide Construction Engineering Services for the Main Street Bridge Project.

B. Design Criteria

IDOT and Village Standards

III. Scope of Services

1. Preconstruction Services

- Review of Bidding/Contract Documents and Engineering Drawings; Advise the Village of potential conflicts or problems, so that solutions can be developed prior to construction.
- Attend Pre-Construction Meeting with Contractor, Village Staff, IDOT, Utility Company Representatives; CBBEL shall prepare a project contact list, including 24-hour emergency numbers, for distribution with the meeting minutes. Obtain from the contractor a list of proposed suppliers and subcontractors. Make recommendations to the Village regarding the suitability of the subcontractors for the proposed work.
- Attend and participate in Village Administered Project Informational Meeting with Impacted Property Owners and other Project Stakeholders (if required).
- Permit Coordination; Obtain and distribute all permits issued for the construction of the project.
- Utility Coordination (Nicor, ComEd, AT&T, Comcast, etc.);
- Review the construction schedule submitted by the contractor for compliance with the contract.
- CBBEL shall document all existing conditions with digital photographs and videotapes to insure that all disrupted areas have been restored per the plan or existing conditions.
- Review the Inspector's Checklists provided through IDOT for contract line items including Erosion Control, Hot-Mix Asphalt, Storm Sewers, Earth Excavation and Embankment.
- Provide information to the Village so you can update your website with construction updates.

2. Shop Drawing Review

- Review of all submittals to ensure conformance with the requirements set forth in the Contract Documents and Engineering Drawings;
- Shop Drawings and Contractor Submittals:
 - Record data received, maintain a file of drawings and submissions, and check construction for compliance with them.
 - Notify the Village of any deviations or substitutions. With the notification, provide the Village with a recommendation for acceptance or denial, and request direction from the Village regarding the deviation or substitution.
 - Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.

3. Construction Observation

LAYOUT VERIFICATION AND/OR CONSTRUCTION LAYOUT

- Verify Construction Layout Performed by Contractor;
- Coordinate with the design engineer and contractor to verify initial geometric controls.
- Since the contractor is responsible for construction staking, perform periodic measurements to assure the contractor's construction staking and construction layout is accurate per plan.

CONSTRUCTION OBSERVATION

- Develop and distribute regular Project Notifications (letters to impacted residents, businesses, schools, refuse and delivery companies, etcetera);
- Full-Time Construction Inspection of all Contract Work to ensure improvements are constructed safely with minimal impact on the public and in accordance with the project specifications; CBBEL shall keep the Village informed of the progress of the work, guard the Village against defects and deficiencies in the work, and advise the Village of all observed deficiencies of the work and disapprove all work failing to conform to the Contract Documents.
- Answering of questions and resolving issues and concerns from impacted property owners;
- Ensure that Construction Completion Schedule is adhered to; Review contractor's progress on a bi-weekly basis and update the progress schedule. Compare actual progress to the contractor's approved schedule. If the project falls 14 calendar days behind schedule, work with the contractor to determine the appropriate course of action to get back on schedule. The contractor is

required to submit a revised schedule for approval prior to further payments being made.

- Conduct Weekly Progress Meetings;
- Provide Weekly Progress Updates to Village Staff;
- Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.
- Discuss the truck routes with the Contractor and monitor that the identified routes are being used.
- All CBBEL personnel and their sub-consultants will comply with the Village's current safety guidelines.
- Enforcement of Storm-water Pollution Prevention Plan (SWPPP) to ensure compliance with IEPA NPDES Permit.

TRAFFIC CONTROL INSPECTION

- Perform Traffic Control Inspection as outlined in Section 700: Work Zone Traffic Control of IDOT's Construction Manual. At a minimum, CBBEL shall perform the following in accordance with STP procedures:
- One detailed daytime inspection per week and two detailed nighttime inspections per month. These inspections shall be recorded on Form BC 726, Traffic Control Inspection Report.
- In addition, the Resident Engineer will drive through the jobsite daily and document the drive through in the project diary.
- If traffic control is in place during project suspensions, two drive-throughs per week will be performed.

If major deficiencies are observed, the Resident Engineer will notify the contractor immediately and insure that the contractor takes the appropriate actions as outlined in the contract documents.

4. Construction Documentation

- CBBEL follows all IDOT guidelines and procedures for Construction Engineering, including, but not limited to, IDOT Construction Manual and IDOT Project Procedures Guide.
- Maintain Daily Project Diary, Daily Inspection Reports, Field Books, Quantity Books, and all other Pertinent Records;
- Contract Administration/Documentation;
- Quantity Measurement;
- Maintain and update ICORS;
- Review/Process Contractor Progress Pay Requests (review schedule submittal, waivers of lien, sworn statements and certified payroll records and have contractor revise documents as necessary) and provide Village Staff with a Recommendation for Payment;

- Develop and Process Change Orders as necessary including Final Balancing Change Order;
- Respond to any Requests for Information from the Contractor.

5. Materials QA

- Performance of Quality Assurance Material Testing in conformance with IDOT requirements for QC/QA Material Testing;
- CBBEL will utilize Material Solutions Laboratory (MSL) for the material testing portions of this contract. MSL will provide Quality Assurance (QA) testing as outlined by IDOT's Bureau of Material and Physical Research, and further described in the Construction Manual.
- The Resident Engineer provided by CBBEL will be familiar with the frequency of QA testing as required by IDOT as outlined in their Project Procedures Guide. The Resident Engineer will coordinate the QA material testing and review all required reports submitted by both the contractor's QC sub-contractor and TSC for compliance with the project specifications.

6. Closeout

- Develop and ensure completion of "Punch List";
- Completion of a Warranty Inspection to identify and direct Contractor to address any issues that arise during warranty period (up to 1 year beyond date of final payment to Contractor).
- Prepare final pay estimate and change order for the Village's approval.
- Verify all necessary material inspection has been received and documented.
- Submit the job box to IDOT with all pertinent project information.

IV. Man-Hour & Fee Summary

See attached Cost Estimate of Consultant Services

Direct Costs

See attached Cost Estimate of Consultant Services

VILLAGE OF ALGONQUIN

Accepted by: _____

Title: _____

Date: _____

CHRISTOPHER B. BURKE ENGINEERING, LTD.

Accepted by:  _____

Title: EXEC V.P. _____

Date: 4/18/18 _____

DF-824-039
REV 12/04
04/18/18

04/18/18

14.50% [(2.3 +R) DL + IHDC]

DBE

AVERAGE HOURLY PROJECT RATES

FIRM Christopher B. Burke Engineering, Ltd.
 Local Agency Village of Algonquin
 Section 0
 Project 0
 Job No: 0

DATE 04/18/18SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Preconstruction Services			Shop Drawing Review			Construction Observation			Construction Documentat			Materials QA		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer VI	69.50	39	2.79%	1.94	4	13.33%	9.27	10	5.00%	3.48	20	2.17%	1.51						
Engineer V	64.09	0																	
Engineer IV	52.10	1358	97.21%	50.65	26	86.67%	45.15	190	95.00%	49.50	900	97.83%	50.97	160	100.00%	52.10	2	100.00%	52.10
Engineer III	45.95	0																	
Engineer I/II	32.44	0																	
Survey V	60.00	0																	
Survey IV	60.00	0																	
Survey III	58.00	0																	
Survey II	42.00	0																	
Survey I	33.50	0																	
Engineering Technician	63.00	0																	
Engineering Technician	46.75	0																	
Engineering Technician	48.25	0																	
Engineering Technician	34.63	0																	
CAD Manager	60.17	0																	
Asst. CAD Manager	51.33	0																	
CAD II	44.50	0																	
CAD I	33.25	0																	
Landscape Architect	54.00	0																	
GIS Specialist III	47.60	0																	
GIS Specialist I/II	30.25	0																	
Env Res Specialist V	66.25	0																	
Env Res Specialist IV	51.44	0																	
Env Res Specialist III	40.18	0																	
Env Res Specialist I/II	31.13	0																	
Env Res Teechnician	38.50	0																	
Engineering Intern	15.72	0																	
Administrative	34.98	0																	
TOTALS		1397	100%	\$52.59	30	100.00%	\$54.42	200	100%	\$52.97	920	100%	\$52.48	160	100%	\$52.10	2	100%	\$52.10

AVERAGE HOURLY PROJECT RATES

DF-824-039
REV 12/04

FIRM Christopher B. Burke Engineering, Ltd.
Local Agency Village of Algonquin
Section 0
Project 0
Job No: 0

DATE 04/18/18

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Closeout																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer VI	69.50	5	5.88%	4.09															
Engineer V	64.09																		
Engineer IV	52.10	80	94.12%	49.04															
Engineer III	45.95																		
Engineer I/II	32.44																		
Survey V	60.00																		
Survey IV	60.00																		
Survey III	58.00																		
Survey II	42.00																		
Survey I	33.50																		
Engineering Technic	63.00																		
Engineering Technic	46.75																		
Engineering Technic	48.25																		
Engineering Technic	34.63																		
CAD Manager	60.17																		
Asst. CAD Manager	51.33																		
CAD II	44.50																		
CAD I	33.25																		
Landscape Architect	54.00																		
GIS Specialist III	47.60																		
GIS Specialist I/II	30.25																		
Env Res Specialist V	66.25																		
Env Res Specialist IV	51.44																		
Env Res Specialist III	40.18																		
Env Res Specialist II	31.13																		
Env Res Specialist I	38.50																		
Engineering Intern	15.72																		
Administrative	34.98																		
TOTALS		85	100%	\$53.12	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

PREPARED BY THE AGREEMENTS UNIT

Printed 4/18/2018 9:30 AM

DF-824-039
REV 12/04
11/17/17

$$\frac{160.81\%}{0.025}$$

DF-824-039
REV 12/04
11/17/17

DBE 100.00%

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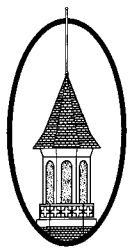
AVERAGE HOURLY PROJECT RATES

FIRM Material S: Material Solutions Laboratory
PSB Main Street Main Street Bridge over Crystal Creek
PRIME/SUPPLEMENT Christoph Christopher Burke

DATE 11/17/17

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES						Project Manager			Materials QA Technician						Pick-Up Technician		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
	70.00																		
Project Manager	70.00	16	10.00%	7.00				16	100.00%	70.00									
Materials QA Technician	38.93	120	75.00%	29.20							120	100.00%	38.93						
Pick-Up Technician	24.24	24	15.00%	3.64													24	100.00%	24.24
		0																	
		0																	
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TOTALS		160	100%	\$39.83	0	0.00%	\$0.00	16	100%	\$70.00	120	100%	\$38.93	0	0%	\$0.00	24	100%	\$24.24



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: May 1, 2018

TO: Tim Schloneger, Village Manager

FROM: Michele Zimmerman, Assistant Public Works Director

SUBJECT: *Street Sweeping Bid*

Bids were opened on April 24, 2018 for contracted service for Village street sweeping. There were 2 bidders on the program with Lakeshore Recycling Systems out of West Chicago coming in the lowest at \$54,758.00. This price is for 11 sweepings throughout the year; 1 each month starting in May, 2 a month for October and November, and 2 optional sweepings in December depending on winter conditions.

Public Works decided to bid this service because we discovered through our Cityworks analysis that it was more cost effective to contract this out. Since this is our first time outsourcing this service, Public Works met with Lakeshore Recycling on May 1, 2018 to discuss the contract and our expectations. Our impression of the company and its representatives was very favorable. They currently provide sweeping services to 60 municipalities throughout the Chicagoland area, and their references provided nothing but good feedback.

Money has been budgeted in the Motor Fuel Tax Fund to pay for this service. Therefore, it is our recommendation that the Committee of the Whole take action to move this matter forward to the Village Board for approval of Lakeshore Recycling Systems to perform street sweeping services for the bid price of \$54,758.00.



**Illinois Department
of Transportation**

**Local Public Agency
Formal Contract**

PROPOSAL SUBMITTED BY		
Lakeshore Recycling Systems		
Contractor's Name		
6132 Oakton Street		
Street		P.O. Box
Morton Grove	IL	60053
City	State	Zip Code

STATE OF ILLINOIS
COUNTY McHenry and Kane
Village of Algonquin
(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF
STREET NAME OR ROUTE 2018 Street Sweeping
SECTION NO. 18-00000-00-GM
TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required)

☐ PLANS (required)

☐ CONTRACT BOND (when required)

**For Municipal Projects
Submitted/Approved/Passed**

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation

☐ Concurrence in approval of award

Regional Engineer

Date

**For County and Road District Projects
Submitted/Approved**

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

**ADDENDUM #1
Village of Algonquin
2018 Street Sweeping
Date: April 19, 2018**

Clarification #1

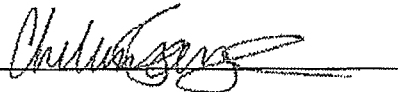
Clarification 1: Bid bonds *will* be accepted as a proposal guaranty.

****Please note that the bid opening date has not changed from April 24, 2018 at 10:45 a.m. at the Village of Algonquin Village Hall.**

Please acknowledge the receipt of this addendum by signing and returning the attached form to Michelle Weber. Additionally, Addendum #1 shall be attached to the bid. If Addendum #1 is not attached to the bid, the bid may be disqualified. Fax to Michelle Weber, Village of Algonquin Village Hall, at (847) 658-4564.

ADDENDUM #1
Village of Algonquin
2018 Street Sweeping
Date: April 19, 2018

I acknowledge the receipt of Addendum #1 for the above referenced project:

Signed: 

Lakeshore Recycling Systems
Name of Company

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Street Sweeping

1. THIS AGREEMENT, made and concluded the 15 day of May, 2018,
Month and Year
between the Village of Algonquin
acting by and through its President and Board of Trustees known as the party of the first part, and
Lakeshore Recycling Systems his/their executors, administrators, successors or assigns,
known as the party of the second part.
2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.
3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 18-00000-00-GM, in Village of Algonquin, approved by the Illinois Department of Transportation on April 15, 2018, are essential documents of this contract and are a part hereof.
4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest:

The _____ of _____

(Seal) Clerk

By _____
Party of the First Part

(If a Corporation)

Corporate Name _____

By _____
President Party of the Second Part

(If a Co-Partnership)

Attest:

Secretary

Partners doing Business under the firm name of _____

Party of the Second Part

(If an individual)

Party of the Second Part



Route 2018 Street Sweeping
County McHenry and Kane
Local Agency Village of Algonqui
Section 18-00000-00-GM

We, Lakeshore Recycling Systems
1655 Powis Rd West Chicago, IL 60185

a/an) ☐ Individual ☐ Co-partnership ☐ Corporation organized under the laws of the State of _____,

as PRINCIPAL, and _____

as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of

_____ Dollars (_____), lawful money of the
United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors,
administrators, successors, jointly to pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said Principal has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. 2018

PRINCIPAL

_____ (Company Name)	_____ (Company Name)
By: _____ (Signature & Title)	By: _____ (Signature & Title)
Attest: _____ (Signature & Title)	Attest: _____ (Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS,

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. 2018

My commission expires _____

Notary Public (SEAL)

SURETY

_____ (Name of Surety)	By: _____ (Signature of Attorney-in-Fact)
---------------------------	--

STATE OF ILLINOIS.

(SEAL)

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. 2018

My commission expires _____

Notary Public (SEAL)

Approved this _____ day of _____, A.D. 2018

Attest:

_____ Clerk	_____ (Awarding Authority)
_____	_____ (Chairman/Mayor/President)

RETURN WITH BID

NOTICE TO BIDDERS

County McHenry and Kane
 Local Public Agency Village of Algonquin
 Section Number 18-00000-00-GM
 Route 2018 Street Sweeping

Sealed proposals for the improvement described below will be received at the office of Village of Algonquin, Village Hall
2200 Harnish Drive, Algonquin, IL 60102 until 10:45 AM on April 24, 2018
 Address Time Date

Sealed proposals will be opened and read publicly at the office of Village of Algonquin, Village Hall
2200 Harnish Drive, Algonquin, IL 60102 at 10:45 AM on April 24, 2018
 Address Time Date

DESCRIPTION OF WORK

Name 2018 Street Sweeping Length: n/a feet (n/a miles)
 Location Village of Algonquin, Illinois
 Proposed Improvement Street sweeping of all Village-owned roadways.

- Plans and proposal forms will be available in the office of The Village of Algonquin Village Hall, 2200 Harnish Drive,
Algonquin, IL, 60102 for the sum of Ten Dollars (\$10.00) (Electronic Only), Contact: Lee Fell (847-828-0500).
 Address
- ☐ Prequalification
 If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.
- The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.
- The following BLR Forms shall be returned by the bidder to the Awarding Authority:
 - BLR 12200: Local Public Agency Formal Contract Proposal
 - BLR 12200a Schedule of Prices
 - BLR 12230: Proposal Bid Bond (if applicable)
 - BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
 - BLR 12326: Affidavit of Illinois Business Office
- The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
- Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
- The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
- If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
- Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals

RETURN WITH BID

PROPOSAL

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Street Sweeping

1. Proposal of street sweeping services

for the improvement of the above section by the construction of _____
Street sweeping of all Village-owned roadways.

a total distance of 691,101 feet, of which a distance of 691,101 feet, (131 miles) are to be improved.

2. The plans for the proposed work are those prepared by Christopher B. Burke Engineering, Ltd.
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of Invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within N/A working days or by N/A unless additional time is granted in accordance with the specifications.
6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will not be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

Village of Algonquin Clerks Office

The amount of the check is \$2,737.90 (5% of bid amount).

7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: N/A.
8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID

SCHEDULE OF PRICES

County McHenry and Kane
 Local Public Agency Village of Algonquin
 Section 18-00000-00-GM
 Route 2018 Street Sweeping

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total
N/A	N/A	N/A

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for Making Entire Improvements					
Bidder's Proposal for BASE BID					
Bidder's Proposal for BASE BID					
Item No.	Items	Unit	Quantity	Unit Price	Total Cost
1	STREET SWEEPING	CYCLE	11	\$4,978.00	\$54,758.00
Bidder's Proposal for BASE BID					

*Wages and benefits are governed by collective bargaining agreement Teamsters Local 673.

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Street Sweeping

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart 1 of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

**Affidavit of Availability
For the Letting of Village of
Algonquin 2018 Street Sweeping**

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract *Currently LRS has 54 municipal contracts of which we have a capacity of more than 25% excess capacity. If awarded, the estimated value of Algonquin will be less than 1% of our street sweeping revenue.

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	1	2	3	4	Awards Pending	
Contract Number						
Contract With	Downers Grove	Hoffman Estates	Woodridge	Elmhurst	N/A	
Estimated Completion Date	12/31/18	12/31/18	5/1/19	12/31/20	N/A	
Total Contract Price	\$150,000.00	\$104,299.08	\$77,491.76	\$547,402.05	N/A	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	\$135,000.00	\$104,299.08	\$77,491.76	\$531,652.05	N/A	\$848,442.05
Uncompleted Dollar Value if Firm is the Subcontractor	N/A	N/A	N/A	N/A	N/A	N/A
Total Value of All Work						\$879,192.89

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork	N/A	N/A	N/A	N/A	N/A	n/a
Portland Cement Concrete Paving						n/a
HMA Plant Mix						n/a
HMA Paving						n/a
Clean & Seal Cracks/Joints						n/a
Aggregate Bases & Surfaces						n/a
Highway, R.R. and Waterway Structures						n/a
Drainage						n/a
Electrical						n/a
Cover and Seal Coats						n/a
Concrete Construction						n/a
Landscaping						n/a
Fencing						n/a
Guardrail						n/a
Painting						n/a
Signing						n/a
Cold Milling, Planning & Rotomilling						n/a
Demolition						n/a
Pavement Markings (Paint)						n/a
Other Construction (List)						n/a
						\$ 0.00
Totals	N/A	N/A	N/A	N/A	N/A	n/a

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code." Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

* All work will be done by LRS directly.

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor	N/A	N/A	N/A	N/A	n/a
Type of Work					n/a
Subcontract Price					n/a
Amount Uncompleted					n/a
Subcontractor					n/a
Type of Work					n/a
Subcontract Price					n/a
Amount Uncompleted					n/a
Subcontractor					n/a
Type of Work					n/a
Subcontract Price					n/a
Amount Uncompleted					n/a
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Type of Work					n/a
Subcontract Price					n/a
Amount Uncompleted					n/a
Subcontractor					n/a
Type of Work					n/a
Subcontract Price					n/a
Amount Uncompleted					n/a
Total Uncompleted	n/a	n/a	n/a	n/a	n/a

I, being duly sworn, do hereby declare that this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

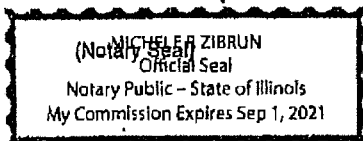
Subscribed and sworn to before me,
this 24 day of April, 2018

Type or Print Name Chelsea Ramage Operations Manager
Officer or Director Title

Michelle Zibrun
Notary Public

Signed Chelsea Ramage

My commission expires Sept 1, 2021



Company Lakeshore Recycling Systems

Address 6132 Oakton Street, Morton Grove, IL 60053

RETURN WITH BID

SIGNATURES

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Street Sweeping

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners



(If a corporation)

Corporate Name Lakeshore Recycling Systems


Signed By Chelsea Ramage
President

Business Address 6132 Oakton Street
Morton Grove, IL 60053

Insert Names of Officers

President Chelsea Ramage, Operations Manager
Secretary Greg Miller, Operations Manager
Treasurer KJ Loerop, VP of Construction Services

Attest:


Secretary



**Illinois Department
of Transportation**

**Apprenticeship or Training
Program Certification**

Return with Bid

Route	Various
County	McHenry & Kane
Local Agency	Village of Algonquin
Section	18-00000-00-GM

All contractors are required to complete the following certification:

- ☐ For this contract proposal or for all groups in this deliver and install proposal.
- ☐ For the following deliver and install groups in this material proposal:

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
- II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
- III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

- IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership. ☐

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: Lakeshore Recycling Systems

Address: 6132 Oakton Street
Morton Grove, IL 60053

By: Chelsa Parnell
(Signature)

Title: Operations Manager

RETURN WITH BID



**Illinois Department
of Transportation**

Affidavit of Illinois Business Office

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-RS
Route 2018 Street Sweeping

State of Illinois)
) ss.
County of McHenry and Kane)

I, Chelsea Ramage of West Chicago, Illinois,
(Name of Affiant) (City of Affiant) (State of Affiant)

being first duly sworn upon oath, states as follows:

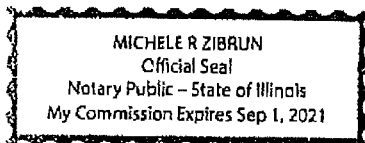
1. That I am the Operations Manager of Lakeshore Recycling Systems,
officer or position bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, Lakeshore Recycling Systems, will maintain a
(bidder)
- business office in the State of Illinois which will be located in DuPage County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.

Chelsea Ramage
(Signature)
Chelsea Ramage
(Print Name of Affiant)

This instrument was acknowledged before me on

day of April 24, 2018.

(SEAL)



Michele R. Zibrun
(Signature of Notary Public)

EQUIPMENT PARKING AND STORAGE (BDE)

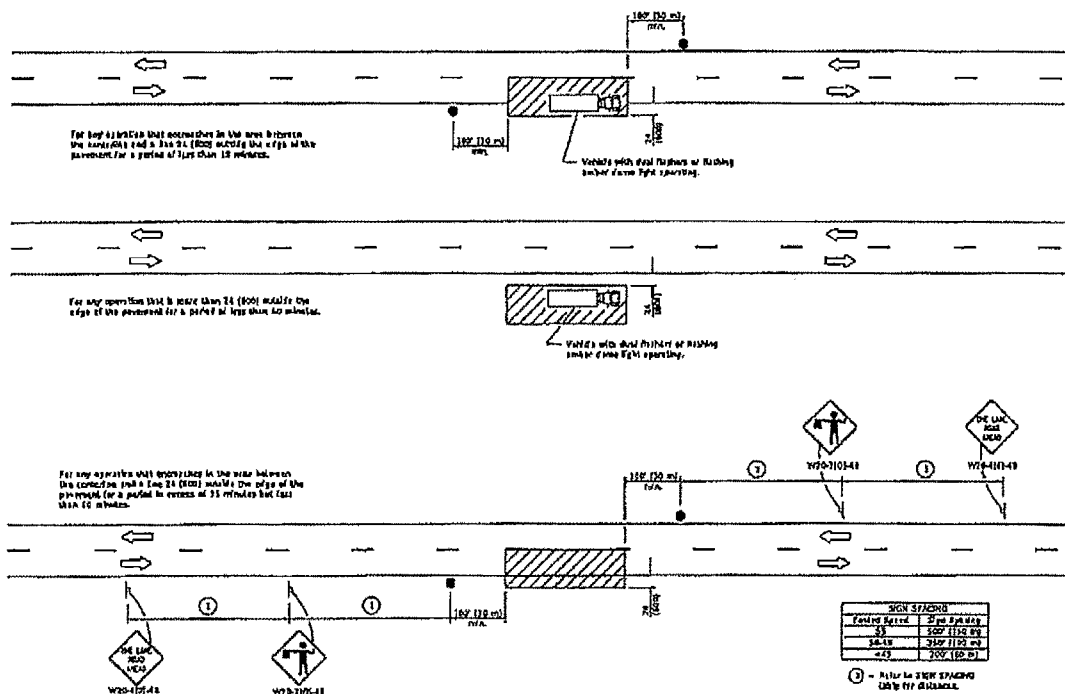
Effective: November 1, 2017

Replace the first paragraph of Article 701.11 of the Standard Specifications with the following.

"701.11 Equipment Parking and Storage. During working hours, all vehicles and/or nonoperating equipment which are parked, two hours or less, shall be parked at least 8 ft (2.5 m) from the open traffic lane. For other periods of time during working and for all nonworking hours, all vehicles, materials, and equipment shall be parked or stored as follows.

- (a) When the project has adequate right-of-way, vehicles, materials, and equipment shall be located a minimum of 30 ft (9 m) from the pavement.
- (b) When adequate right-of-way does not exist, vehicles, materials, and equipment shall be located a minimum of 15 ft (4.5 m) from the edge of any pavement open to traffic.
- (c) Behind temporary concrete barrier, vehicles, materials, and equipment shall be located a minimum of 24 in. (600 mm) behind free standing barrier or a minimum of 6 in. (150 mm) behind barrier that is either pinned or restrained according to Article 704.04. The 24 in. or 6 in. measurement shall be from the base of the non-traffic side of the barrier.
- (d) Behind other man-made or natural barriers meeting the approval of the Engineer."

80388



① State Department of Transportation

Project: _____

Location: _____

Sheet: _____

TYPICAL APPLICATIONS

Marking patches
Night traffic
Paving
Utility operations
Cleaning up debris on pavement

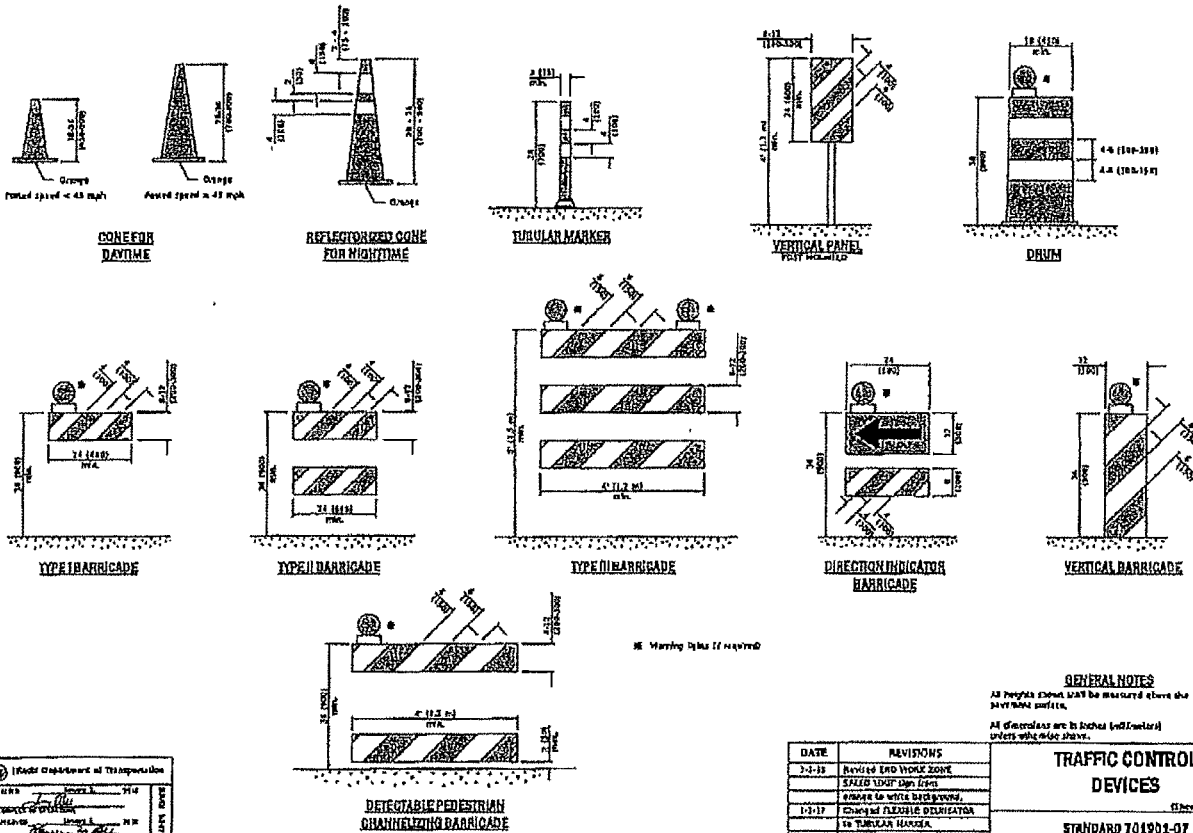
SYMBOLS

Work area
Sign as portable or permanent sign
Plaque with white arrow sign

DATE	REVISIONS
1-1-13	Revised design sign
1-1-13	Revised units to English (metric)

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD T03001-04



GENERAL NOTES
 All heights shown MUST be measured above the pavement surface.
 All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
3-2-88	Revised END WHOLE CODE
	SALES UNIT Dgn. Code
	CHANGE TO WHITE BACKGROUND
1-2-17	CHANGE TO FLEXIBLE DELINEATION
	TO TUBULAR MARKER

TRAFFIC CONTROL DEVICES

Sheet 1 of 2
 STANDARD 701901-07

Florida Department of Transportation

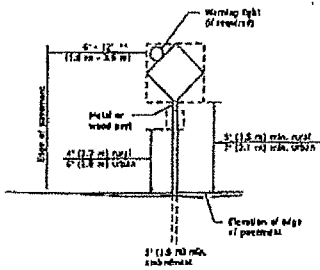
1488 1-10-14

PROJECT NO. 1488

DESIGNED BY: [Signature]

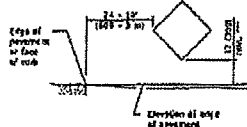
CHECKED BY: [Signature]

DATE: 1-10-14



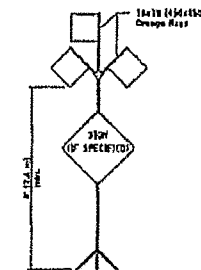
POST MOUNTED SIGNS

When such a sign is used, it shall be 2' (0.6 m) to 3' (0.9 m) in height and 2' (0.6 m) to 3' (0.9 m) in width.



SIGNS ON TEMPORARY SUPPORTS

When such a sign is used, it shall be 2' (0.6 m) to 3' (0.9 m) in height and 2' (0.6 m) to 3' (0.9 m) in width. The height shall be sufficient to be seen completely above the traffic.



HIGH LEVEL WARNING DEVICE

ROAD
CONSTRUCTION
NEXT X MILES

MS-101 (M-101)

END
CONSTRUCTION

MS-102 (M-102)

This sign is required for all projects 2 miles (3.2 km) or more in length. ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (152 m) in advance of project limits.

END CONSTRUCTION sign shall be placed at the end of the job within limits of job to within 2 miles (3.2 km).

Both sign displays shall be placed on multi-lane highways.

WORK LIMIT SIGNING



MS-103 (M-103)

MS-104 (M-104)

MS-105 (M-105)

MS-106 (M-106)

Sign assembly shall be placed on structures or at other locations as specified.



MS-107 (M-107)

This sign shall be used to show the speed limit assembly in use.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

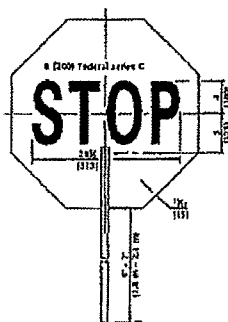
MS-108 (M-108) shall only be used along multi-lane roads under the jurisdiction of the State.



MS-109 (M-109)

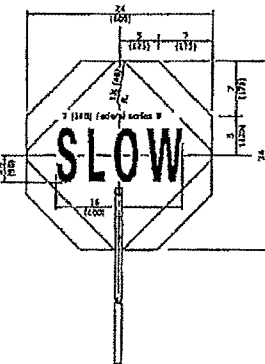
WIDTH RESTRICTION SIGN

When such a sign is used, it shall be 2' (0.6 m) to 3' (0.9 m) in height and 2' (0.6 m) to 3' (0.9 m) in width.



MS-110 (M-110)

FLAGGER TRAFFIC CONTROL SIGN



MS-111 (M-111)

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-07

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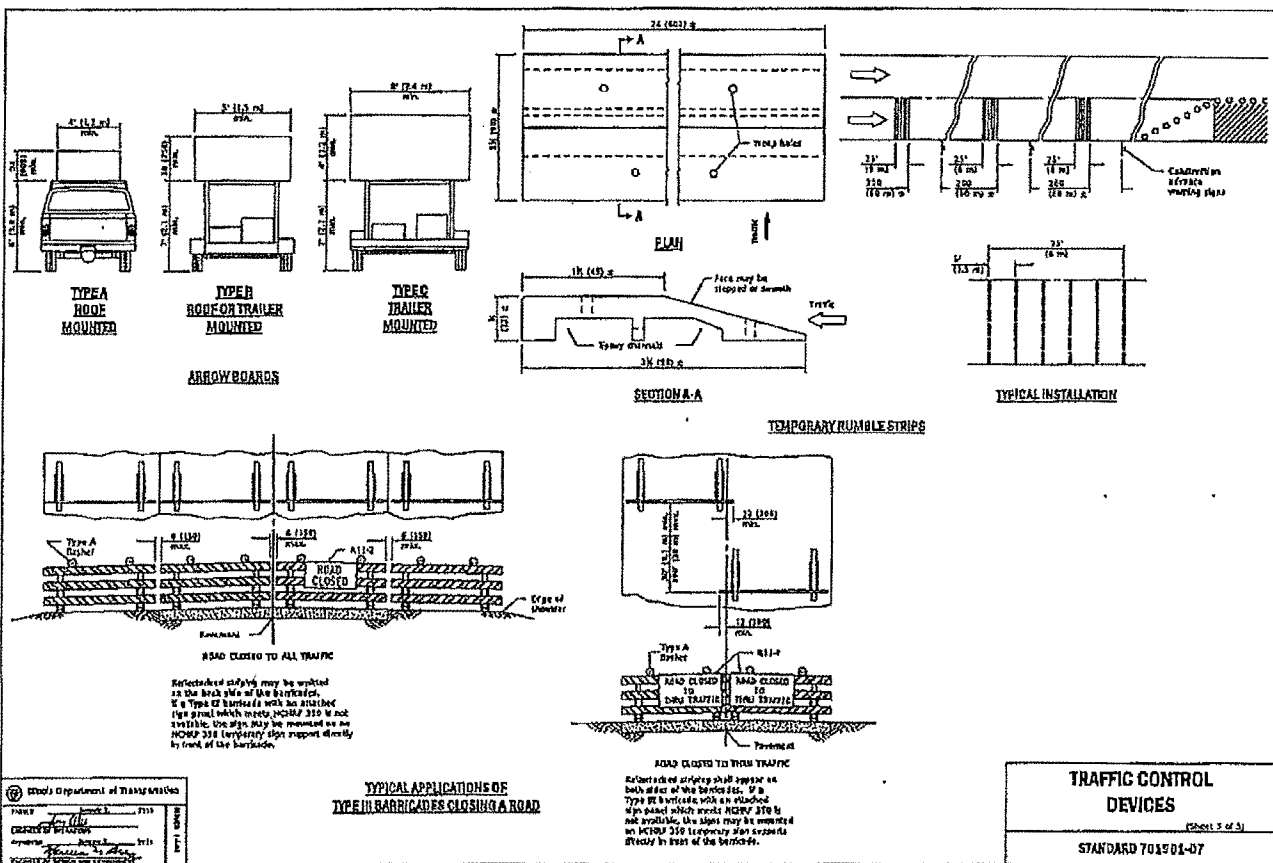
DATE: 10/95

REVISION: 10/95

APPROVED: 10/95

DESIGNED: 10/95

PROJECT: 10/95



INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2018

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 4-1-16) (Revised 1-1-18)

SUPPLEMENTAL SPECIFICATIONS

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106 Control of Materials	1
403 Bituminous Surface Treatment (Class A-1, A-2, A-3)	2
404 Micro-Surfacing and Slurry Sealing	3
405 Cape Seal	14
420 Portland Cement Concrete Pavement	24
442 Pavement Patching	26
502 Excavation for Structures	27
503 Concrete Structures	29
504 Precast Concrete Structures	32
542 Pipe Culverts	33
586 Sand Backfill for Vaulted Abutments	34
630 Steel Plate Beam Guardrail	36
631 Traffic Barrier Terminals	39
670 Engineer's Field Office and Laboratory	40
701 Work Zone Traffic Control and Protection	41
704 Temporary Concrete Barrier	42
781 Raised Reflective Pavement Markers	44
888 Pedestrian Push-Button	45
1003 Fine Aggregates	46
1004 Coarse Aggregates	47
1006 Metals	50
1020 Portland Cement Concrete	51
1050 Poured Joint Sealers	53
1069 Pole and Tower	55
1077 Post and Foundation	56
1096 Pavement Markers	57
1101 General Equipment	58
1102 Hot-Mix Asphalt Equipment	59
1103 Portland Cement Concrete Equipment	61
1106 Work Zone Traffic Control Devices	63



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	64
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	67
3	<input type="checkbox"/> EEO	68
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	78
5	<input type="checkbox"/> Required Provisions - State Contracts	83
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	89
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	90
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	91
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	92
10	<input type="checkbox"/> Construction Layout Stakes	95
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	98
12	<input type="checkbox"/> Subsealing of Concrete Pavements	100
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	104
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	106
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	107
16	<input type="checkbox"/> Polymer Concrete	109
17	<input type="checkbox"/> PVC Pipeliner	111
18	<input type="checkbox"/> Bicycle Racks	112
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	114
20	<input type="checkbox"/> Work Zone Public Information Signs	116
21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	117
22	<input type="checkbox"/> English Substitution of Metric Bolts	118
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	118
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	120
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	128
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	144
27	<input type="checkbox"/> Reserved	146
28	<input type="checkbox"/> Preventive Maintenance - Bituminous Surface Treatment	147
29	<input type="checkbox"/> Reserved	153
30	<input type="checkbox"/> Reserved	154
31	<input type="checkbox"/> Reserved	155
32	<input type="checkbox"/> Temporary Raised Pavement Markers	156
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	157
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	160
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	164

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
LRS 1	Reserved	168
LRS 2	<input type="checkbox"/> Furnished Excavation	169
LRS 3	<input checked="" type="checkbox"/> Work Zone Traffic Control Surveillance	170
LRS 4	<input checked="" type="checkbox"/> Flaggers in Work Zones	171
LRS 5	<input checked="" type="checkbox"/> Contract Claims	172
LRS 6	<input checked="" type="checkbox"/> Bidding Requirements and Conditions for Contract Proposals	173
LRS 7	<input type="checkbox"/> Bidding Requirements and Conditions for Material Proposals	179
LRS 8	Reserved	185
LRS 9	<input type="checkbox"/> Bituminous Surface Treatments	186
LRS 10	Reserved	187
LRS 11	<input checked="" type="checkbox"/> Employment Practices	188
LRS 12	<input checked="" type="checkbox"/> Wages of Employees on Public Works	190
LRS 13	<input checked="" type="checkbox"/> Selection of Labor	192
LRS 14	<input type="checkbox"/> Paving Brick and Concrete Paver Pavements and Sidewalks	193
LRS 15	<input checked="" type="checkbox"/> Partial Payments	196
LRS 16	<input type="checkbox"/> Protests on Local Lettings	197
LRS 17	<input checked="" type="checkbox"/> Substance Abuse Prevention Program	198
LRS 18	<input type="checkbox"/> Multigrade Cold Mix Asphalt	199

BDE SPECIAL PROVISIONS
For the January 19 and March 9, 2018 Lettings

The following special provisions indicated by an "X" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

File Name	#	Special Provision Title	Effective	Revised
80099	1	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80382	2	Adjusting Frames and Grates	April 1, 2017	
80274	3	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80241	6	Bridge Demolition Debris	July 1, 2009	
80261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
80481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
80491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
80531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80366	11	Butt Joints	July 1, 2016	
80386	12	Calcium Aluminate Cement for Class PP-5 Concrete Patching	Nov. 1, 2017	
80386	13	Class A and B Patching	Jan. 1, 2018	
80384	14	Compensable Delay Costs	June 2, 2017	
80198	15	Completion Date (via calendar days)	April 1, 2008	
80199	16	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	17	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	18	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80277	19	Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
80281	20	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	21	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	July 2, 2016
80378	23	Dry Weather Inserter	Jan. 1, 2017	Jan. 1, 2018
80388	24	✓ Equipment Parking and Storage	Nov. 1, 2017	
80229	25	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80304	26	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
80246	27	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2016
80347	28	Hot-Mix Asphalt – Ray for Performance and Patching Within Limits – Density Sampling	Nov. 1, 2014	Jan. 1, 2018
80383	29	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	Nov. 1, 2017
80376	30	Hot-Mix Asphalt – Tack Coat	Nov. 1, 2016	
80392	31	Joint Sealing Compound	Jan. 1, 2018	
80336	32	Longitudinal Joint and Crack Patching	April 1, 2014	April 1, 2016
80393	33	Manhole Valve Vault and Flange Boxes	Jan. 1, 2018	
80045	34	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80394	35	Moisture Cured Urethane Sealant for Pipe Culverts	Jan. 1, 2018	
80165	36	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80349	37	Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
80371	38	Pavement Marking Removal	July 1, 2016	
80390	39	Pavement to Subcontractors	Nov. 2, 2017	
80377	40	Portable Changeable Message Signs	Nov. 1, 2016	April 1, 2017
80389	41	Portland Cement Concrete	Nov. 1, 2017	
80359	42	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2017
80385	43	Portland Cement Concrete Sidewalk	Aug. 1, 2017	
80300	44	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
80328	45	Progress Payments	Nov. 2, 2013	
34261	46	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80167	47	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80300	48	Recycled Asphalt Pavement (RAP) and Recycled Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2013
80095	49	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2013	
80340	50	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	51	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80091	52	Subcontractor Mobilization Payments	Nov. 2, 2017	
80317	53	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	April 1, 2016
80298	54	Temporary Pavement Marking (NOTE: This special provision was previously named "Pavement Marking Tape Type IV".)	April 1, 2012	April 1, 2017
20338	55	Training Special Provisions	Oct. 15, 1975	
80318	56	Traversable Pipe Gate for Culvert End Sections (NOTE: This special provision was previously named "Traversable Pipe Gate".)	Jan. 1, 2013	Jan. 1, 2013
80288	57	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	58	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80071	59	Working Days	Jan. 1, 2002	

The following special provisions are in the 2018 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80368	Light Tower	Article 1069.08	July 1, 2016	
80369	Mast Arm Assembly and Pole	Article 1077.03(a)(1)	July 1, 2016	
80338	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	Recurring CS #35	April 1, 2014	April 1, 2016
80379	Steel Plate Beam Guardrail	Articles 630.02, 630.05, 630.06, and 630.08	Jan. 1, 2017	
80381	Traffic Barrier Terminal, Type 1 Special	Article 631.04	Jan. 1, 2017	
80380	Tubular Markers	Articles 701.03, 701.15, 701.18, and 1106.02	Jan. 1, 2017	

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal - Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

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BDE Specifications
Highway Standards

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2016 (hereinafter referred to as the "Standard Specifications"); the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" in effect on the date of invitation for bids; and the "Supplemental Specifications and Recurring Special Provisions," adopted January 1, 2018 indicated on the Check Sheet included herein; all of which apply to and govern the construction of the 2018 Street Sweeping for the Village of Algonquin, Illinois.

These special provisions included herein apply to and govern the proposed improvement designated as 2018 Street Sweeping and in case of conflict with any part or parts of said specifications, said special provisions shall take precedent and shall govern.

Location of Improvement

These improvements are in various locations throughout the Village of Algonquin, Illinois.

Description of Improvement

The proposed work includes street sweeping of various locations throughout the Village.

Traffic Control and Protection

All necessary traffic control and protection shall be considered incidental to the contract.

STREET SWEEPING

Description: The Contractor shall utilize a mechanical street sweeper to clean the streets as directed by the Engineer. The street-sweeper shall be a full-sized, municipal-type sweeper having dust collection and street washing capabilities. The water for this will be supplied by the VILLAGE from a hydrant located at Public Works (110 Meyer Drive), with a meter.

If, in the opinion of the ENGINEER, dust and debris becomes a problem despite the normal cleanup measures of street sweeping, the CONTRACTOR shall wash down the pavement, or re-sweep streets as necessary, all at no additional cost to the VILLAGE.

The total curb miles for a full Street Sweeping Cycle is estimated to be approximately 131 miles. The length of one cycle shall be 4 days.

Schedule for Cycles:

May:	2 Cycles
June:	2 Cycles
July:	1 Cycle
August:	1 Cycle
September:	1 Cycle
October:	3 Cycles
November:	1 Cycle

This work shall be measured per CYCLE for STREET SWEEPING. Street sweeper will not be paid for travel time and will only be paid for time spent working within the project site.



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: May 1, 2018

TO: Tim Schloneger, Village Manager

FROM: Michele Zimmerman, Assistant Public Works Director

SUBJECT: *Asphalt Materials Bid Opening*

Bids were opened for asphalt material purchase April 24, 2018. Three bids were received for the project. Lorig Construction Company, Inc. was the low bid for the material at \$206,400.00.

The amount was budgeted in the MFT Fund under the Materials line items. This is asphalt the Village will purchase in order to do in house repairs and patching to various streets. Eligible repairs are pothole filling, patching, surface course, and edge repairs. We use a combination of both surface course and binder course material to complete this type of work, both of which are shown in the bid documents.

Lorig Construction Company has completed several re-surfacing jobs for the Village of Algonquin, and the asphalt mix has been satisfactory. Therefore, it is our recommendation that the Committee of the Whole take action to move this matter forward to the Village Board for approval of Lorig Construction Company to provide asphalt material for the bid price of \$206,400.00.



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

May 1, 2018

Village of Algonquin
220 Harnish Drive
Algonquin, Illinois 60102

Attention: Michele Zimmerman

Subject: 2018 MFT Purchasing – Asphalt Material Letting
Bid Results

Dear Ms. Zimmerman:

On Tuesday, April 24, 2018 at 10:00 a.m. bids were received and opened for the aforementioned project. Three bids were received and have been summarized below.

<u>COMPANY</u>	<u>BID AMOUNT (INCLUDING HAUL RATE)</u>
Lorig Construction Co.	\$206,400.00
Arrow Road Construction Co.	*\$210,575.00
Geske and Sons, Inc.	\$221,950.00

Lorig Construction Co. is the low bidder with a bid amount, including the hauling rate, of \$206,400.00. The haul rate is based on the cost per ton per mile for a round trip from the Contactor's asphalt plant to Algonquin Public Works. Our office recommends accepting Lorig Construction Co.'s bid for the amount of \$206,400.00. Attached please find a copy of the bid tabulation for your review and files.

*It should be noted that Arrow Road Construction Co.'s haul rate is included in their unit price.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Lee Fell, PE

Assistant Department Head – Civil Engineering Design

Enclosure as Noted

cc: Michelle Weber – Village of Algonquin (w/ enclosed)
Gerardo Fierro – IDOT (w/ enclosed)

Christopher B. Burke Engineering, Ltd.
 9575 West Higgins Road, Suite 600
 Rosemont, IL 60018

VILLAGE OF ALGONQUIN
 2018 MFT PURCHASING
 ASPHALT MATERIAL LETTING

BID TABULATION
 DATE: April 24, 2018

				LORIG CONSTRUCTION CO.		GESKE AND SONS, INC.		ARROW ROAD CONSTRUCTION CO.	
GROUP NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	COST	UNIT PRICE	COST	UNIT PRICE	COST
I	HMA Surface Course, Mix "D", N50	TON	3500	\$ 43.75	\$ 153,125.00	\$ 40.50	\$ 141,750.00	\$ 52.85	\$ 184,975.00
II	HMA Binder Course, IL-19.0, N50	TON	500	\$ 41.75	\$ 20,875.00	\$ 38.00	\$ 19,000.00	\$ 51.20	\$ 25,600.00
TOTAL =					\$ 174,000.00	TOTAL =	\$ 160,750.00	*TOTAL =	\$ 210,575.00

HAUL DISTANCE (miles):	HAUL RATE	5.4		10.2	
HAUL RATE PER TON/MILE:	\$ 1.50	21600	\$ 32,400.00	40800	\$ 61,200.00

TOTAL WITH HAULING = \$ 206,400.00 \$ 221,950.00

NOTE: HAUL RATES ARE BASED ON MAPQUEST FOR THE ROUND TRIP DISTANCE FROM THE VILLAGE PUBLIC WORKS TO CONTRACTOR'S LOCATION OF ASPHALT PLANT.
 *CONTRACTOR STATED HAUL RATE IS INCLUDED IN THEIR UNIT PRICE.

RETURN WITH BID



Illinois Department
of Transportation

Local Public Agency
Material Proposal or
Deliver & Install Proposal

PROPOSAL SUBMITTED BY		
Lorig Construction Company		
Contractor's Name		
250 E. Touhy Ave.		
Street	P.O. Box	
Des Plaines	IL	60018
City	State	Zip Code

STATE OF ILLINOIS

COUNTY OF McHenry & Kane

Village of Algonquin

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE NO. 2018 MFT Asphalt Material Purchasing

SECTION NO. 18-00000-00-GM

TYPES OF FUNDS MFT Funds

☒ MATERIAL PROPOSAL

☐ DELIVER & INSTALL PROPOSAL

☒ SPECIFICATIONS (required)

☐ PLANS (if applicable)

For Municipal Projects	
Submitted/Approved/Passed	
<u>[Signature]</u>	
<input type="checkbox"/> Mayor	<input checked="" type="checkbox"/> President of Board of Trustees
<input type="checkbox"/> Municipal Official	
Date	<u>4/3/18</u>

Department of Transportation	
<input checked="" type="checkbox"/> Released for bid based on limited review	
<u>[Signature]</u> / AH	
Regional Engineer	
Date	<u>4/5/2018</u>

For County and Road District Projects	
Submitted/Approved	

Highway Commissioner	

Date	
Submitted/Approved	

County Engineer/Superintendent of Highways	

Date	

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

County McHenry
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 MFT Asphalt Purchase

1. THIS AGREEMENT, made and concluded the 15 day of May, 2018
Month and Year
between the Village of Algonquin
acting by and through its President + Board of Trustees known as the party of the first part, and
Lorig Construction Company his/their executors, administrators, successors or assigns,
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for
Section 18-00000-00-GM, in Village of Algonquin,
approved by the Illinois Department of Transportation on 4/5/2018, are essential documents of this
contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: _____ The _____ of _____
Clerk By _____
Party of the First Part

(Seal)

(If a Corporation)

Corporate Name _____
By _____
President Party of the Second Part

(If a Co-Partnership)

Attest: _____
Secretary

Partners doing Business under the firm name of

Party of the Second Part

(If an individual)

Party of the Second Part



Route 2018 MFT Asphalt Purchase
County McHenry + Kane
Local Agency Village of Algonquin
Section 18-0000-06-07

We, _____

a/an) ☐ Individual ☐ Co-partnership ☐ Corporation organized under the laws of the State of _____,
as PRINCIPAL, and _____

_____ as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of

_____ Dollars (_____), lawful money of the
United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors,
administrators, successors, jointly to pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said Principal has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. _____

PRINCIPAL

(Company Name)

(Company Name)

By: _____
(Signature & Title)

By: _____
(Signature & Title)

Attest: _____
(Signature & Title)

Attest: _____
(Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS,

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

SURETY

(Name of Surety)

By: _____
(Signature of Attorney-in-Fact)

STATE OF ILLINOIS.

(SEAL)

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

Approved this _____ day of _____, A.D. _____

Attest:

Clerk

(Awarding Authority)

(Chairman/Mayor/President)

ADDENDUM #1
Village of Algonquin
2018 Asphalt Material Purchasing
Date: April 19, 2018

I acknowledge the receipt of Addendum #1 for the above referenced project:

Signed: Brian Gifford

Loring Const. Co.
Name of Company

ADDENDUM #1
Village of Algonquin
2018 Asphalt Material Purchasing
Date: April 19, 2018

Clarification #1

Clarification 1: Bid bonds *will* be accepted as a proposal guaranty.

****Please note that the bid opening date has not changed from April 24, 2018 at 10:00 a.m. at the Village of Algonquin Village Hall.**

Please acknowledge the receipt of this addendum by signing and returning the attached form to Michelle Weber. Additionally, Addendum #1 shall be attached to the bid. If Addendum #1 is not attached to the bid, the bid may be disqualified. Fax to Michelle Weber, Village of Algonquin Village Hall, at (847) 658-4564.

RETURN WITH BID

NOTICE TO BIDDERS

County McHenry & Kane
 Local Public Agency Village of Algonquin
 Section Number 18-00000-00-GM
 Route 2018 MFT Asphalt Purchasing

Sealed proposals for the furnishing or delivering & installing materials required in the construction/maintenance of the above

Section will be received and at that time publicly opened and read at the office of

Village of Algonquin, Village Hall,

2200 Harnish Drive, Algonquin, IL 60102

Address

until

10:00 AM

Time

on

April 24, 2018

Date

- Plans and proposal forms will be available in the office of Village of Algonquin, 2200 Harnish Drive, Algonquin, IL 60102
 for the sum of Ten Dollars (\$10.00) (Electronic Only). Contact: Lee Fell (847-823-0500).
 Address
- ☐ Prequalification. If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work.
- The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Material Proposals.
- A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Material Proposals, will be required. Bid Bonds will not be allowed as a proposal guaranty. Bidders must submit a proposal guaranty check in the amount of 5% of the submitted bid.
- The successful bidder at the time of execution of the contract will not be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. Failure on the part of the contractor to deliver the material within the time specified or to do the work specified herein will be considered just cause to forfeit his surety as provided in Article 108.10 of the Standard Specifications.
- Proposals shall be submitted on forms furnished by the Awarding Authority and shall be enclosed in an envelope endorsed "Material Proposal, Section 18-00000-00-GM".

By Order of Village of Algonquin Gerald Kautz
 (Awarding Authority) Date (County Engineer/Superintendent of Highways/Municipal Clerk)

Material Proposal or Deliver & Install Proposal

To Village of Algonquin
 (Awarding Authority)

If this bid is accepted within 45 days from date of opening, the undersigned agrees to furnish or to deliver & install any or all of the materials, at the quoted unit prices, subject to the following:

- It is understood and agreed that the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016, and the "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2018, prepared by the Department of Transportation, shall govern insofar as they may be applied and insofar as they do not conflict with the special provisions and supplemental specifications attached hereto.
- It is understood that quantities listed are approximate only and that they may be increased or decreased as may be needed to properly complete the improvement within its present limits or extensions thereto, at the unit price stated and that bids will be compared on the basis of the total price bid for each group.
- Delivery in total or partial shipments as ordered shall be made within the time specified in the special provisions or by the acceptance at the point and in the manner specified in the "Schedule of Prices". If delivery on the job site is specified, it shall mean any place or places on the road designated by the awarding authority or its authorized representative.
- The contractor and/or local agency performing the actual material placement operations shall be responsible for providing work zone traffic control, unless otherwise specified in this proposal. Such devices shall meet the requirements of and be installed in accordance with applicable provisions of the "Illinois Manual on Uniform Traffic Control Devices" and any referenced Illinois Highway Standards.
- Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid will be declared unacceptable if neither a unit price nor a total price is shown.

Discounts will be allowed for payment as follows: 0 % 0 calendar days: 0 % 0 calendar days.

Discounts will not be considered in determining the low bidder.

Bidder Lorig Construction Company

By [Signature]
 (Signature)

Address 250 E. Touhy Ave, Des Plaines, IL 60018

Title President

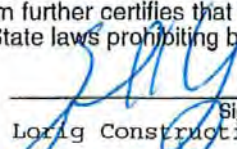


Illinois Department of Transportation

Material Proposal Schedule of Prices

Group No.	Items	Delivery	Unit	Quantity	Unit Price	Total
I	HMA Surface Course, Mix "D", N50	Furnishing	Tons	3,500	\$43.75	\$153,125.00
I	HMA Binder Course, IL-19.0, N50	Furnishing	Tons	500	\$41.75	\$20,875.00
				500	YOM	\$174,000.00
	Location of Plant: 9091 S. Virginia Rd., Algonquin, IL 60102					
		(Plant)	Miles		6,000	
	A HAUL RATE OF \$1.50 / TON/MILE					
	WILL BE USED TO DETERMINE THE					
	LOW BID MEASURES FROM 110					
	MEYER DRIVE, ALGONQUIN, IL TO					
	THE PLANT LOCATION. (See mileage					
	calculation below)					
	A. Plant Location	-				
	B. Public Works, 110 Meyer Drive,	-				
	Algonquin, IL, 60102					
	C. Mileage difference between plant	2.7 MILES				
	location and Public Works					
	D. Round trip distance	5.4 MILES ROUND TRIP				
	(C x 2) (This item to be used in item 1	5.4 MILES @ \$1.50 / MILE = \$8.10 / TON				
	above)					
		4000 TONS @ \$8.10				\$32,400.00
		TOTAL WITH MILEAGE PENALTY				\$206,400.00

The undersigned firm certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm. The undersigned firm further certifies that it is not barred from contracting with any unit of State or local government as a result of a violation of State laws prohibiting bid-rigging or bid rotating.


Signature of Bidder
Lorig Construction Company
Des Plaines, IL 60018
Address

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:

(Name, legal status and address)

Lorig Construction Company
250 East Touhy
Des Plaines, IL 60018

SURETY:

(Name, legal status and principal place of business)

Hartford Fire Insurance Company
One Hartford Plaza
Hartford, CT 06155-0001
Mailing Address for Notices
1411 Opus Place, Ste. 450
Downers Grove, IL 60515

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:

(Name, legal status and address)

Village of Algonquin
2200 Harnish Drive
Algonquin, IL 60102

BOND AMOUNT: \$ 5% Five Percent of Amount Bid

PROJECT:

(Name, location or address, and Project number, if any)

2018 MFT Asphalt Purchasing

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 24th day of April, 2018

(Witness)

(Witness) Melissa Schmidt

Lorig Construction Company

(Principal)

(Seal)

By:

(Title)

Hartford Fire Insurance Company

(Surety)

(Seal)

By:

(Title)

Kelly A. Gardner Attorney-in-Fact



POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD
Bond T-12
One Hartford Plaza
Hartford, Connecticut 06155
Bond.Claims@thehartford.com

call: 888-266-3488 or fax: 860-757-5835

Agency Code: SurePath

KNOW ALL PERSONS BY THESE PRESENTS THAT:

- ☒ Hartford Fire Insurance Company, a corporation duly organized under the laws of the State of Connecticut
☐ Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana
☐ Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut
☐ Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut
☐ Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana
☐ Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois
☐ Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana
☐ Hartford Insurance Company of the Southeast, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint

Kelly A. Gardner of Downers Grove, IL

their true and lawful Attorney-in-Fact, to sign its name as surety(ies) only as delineated above by ☒, and to execute, seal and acknowledge the following bond, undertaking, contract or written instrument:

Bond No. Bid Bond on behalf of Lorig Construction Company

naming

Village of Algonquin as Obligor in the amount of See Bond Form on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on May 6, 2015 the Companies have caused these presents to be signed by its Senior Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



John Gray

John Gray, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Senior Vice President

STATE OF CONNECTICUT

COUNTY OF HARTFORD

ss. Hartford

On this 11th day of January, 2016, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Senior Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.



CERTIFICATE

Kathleen T. Maynard

Kathleen T. Maynard
Notary Public
My Commission Expires July 31, 2021

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of April 24, 2018

Signed and sealed at the City of Hartford.



Kevin Heckman

Kevin Heckman, Assistant Vice President

State of Illinois

County of DuPage

SURETY ACKNOWLEDGEMENT (ATTORNEY-IN-FACT)

I, Melissa Schmidt Notary Public of DuPage County, in the State of Illinois,

do hereby certify that Kelly A. Gardner Attorney-in-Fact, of the Hartford Fire Insurance

Company who is personally known to me to be the same person whose

name is subscribed to the foregoing instrument, appeared before me this day in person, and

acknowledged that she signed, sealed and delivered said instrument, for and on behalf of the

Hartford Fire Insurance Company for the uses and purposes therein set forth.

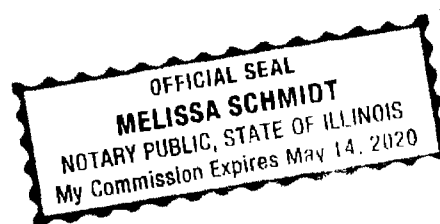
Given under my hand and notarial seal at my office in the City of Downers Grove in
said County, this 24th day of April, 2018.



Notary Public

Melissa Schmidt

My Commission expires: May 14, 2020



VILLAGE OF ALGONQUIN
BID CERTIFICATION FORM

The undersigned, being an authorized representative of the Bidder, hereby certifies in accordance with Illinois State Statutes 720 ILCS 5/33E-11 that the Bidder is not barred from submitting a bid for this contract as a result of a violation of either Section 33E-3 or Section 33E-4 of Illinois State Statutes 720 ILCS 5/33E – "Public Contracts" concerning bid rigging, bid rotating, kickbacks, bribery, and other interference with public contracts.

The undersigned hereby also certifies that this bid is genuine and not collusive or sham; that said Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any other Bidder or person, to put in a sham bid or to refrain from submitting a bid; and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, to fix the proposed price elements of said bid, or that of any other Bidder, or to secure any advantage against any other Bidder or any person interested in the proposed contract.

The undersigned hereby also certifies in accordance with Illinois State Statutes 65 ILCS 5/11 – 42.1-1 that the Bidder is not delinquent in the payment of any tax administered by the State of Illinois Department of Revenue, unless the amount and/or liability is being properly contested in accordance with the procedures established by the appropriate revenue act.

The undersigned hereby also certifies in accordance with Illinois State Statutes 775 ILCS 5/2-105 that the Bidder has an adopted "Sexual Harassment Policy" consistent with the provisions of 775 ILCS 5/2-105.

Dated at Des Plaines, IL

This 24th day of April, 2018

By: [Signature]
(Signature)

Its: President
(Title)

David H. Lorig, being duly sworn, deposes and say that he/she is the
President of Lorig Construction Company

and that the statement above is true and correct.

Subscribed and sworn before me this 24th day of April, 2018

Notary Public: [Signature]

My commission expires: 10/29/19





The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted April 1, 2016, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures of Materials" in effect on the date of invitation of bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included here in which apply to and govern the construction of 18-00000-00-GM, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2018

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 4-1-16) (Revised 1-1-18)

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Check Sheet For Recurring Special Provisions



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

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5	<input type="checkbox"/> Required Provisions - State Contracts	83
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	89
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	90
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	91
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	92
10	<input type="checkbox"/> Construction Layout Stakes	95
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	98
12	<input type="checkbox"/> Subsealing of Concrete Pavements	100
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	104
14	<input type="checkbox"/> Pavement and Shoulder Resurfacing	106
15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	107
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17	<input type="checkbox"/> PVC Pipeliner	111
18	<input type="checkbox"/> Bicycle Racks	112
19	<input type="checkbox"/> Temporary Portable Bridge Traffic Signals	114
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21	<input type="checkbox"/> Nighttime Inspection of Roadway Lighting	117
22	<input type="checkbox"/> English Substitution of Metric Bolts	118
23	<input type="checkbox"/> Calcium Chloride Accelerator for Portland Cement Concrete	119
24	<input type="checkbox"/> Quality Control of Concrete Mixtures at the Plant	120
25	<input type="checkbox"/> Quality Control/Quality Assurance of Concrete Mixtures	128
26	<input type="checkbox"/> Digital Terrain Modeling for Earthwork Calculations	144
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29	<input type="checkbox"/> Reserved	153
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32	<input type="checkbox"/> Temporary Raised Pavement Markers	156
33	<input type="checkbox"/> Restoring Bridge Approach Pavements Using High-Density Foam	157
34	<input type="checkbox"/> Portland Cement Concrete Inlay or Overlay	160
35	<input type="checkbox"/> Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	164

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

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BDE SPECIAL PROVISIONS
For the January 19 and March 9, 2018 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80099	1	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80382	2	Adjusting Frames and Grates	April 1, 2017	
80274	3	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80241	6	Bridge Demolition Debris	July 1, 2009	
50261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80366	11	Butt Joints	July 1, 2016	
80386	12	Calcium Aluminate Cement for Class PP-5 Concrete Patching	Nov. 1, 2017	
x 80896	13	Class A and B Patching	Jan. 1, 2018	
80384	14	Compensable Delay Costs	June 2, 2017	
80198	15	Completion Date (via calendar days)	April 1, 2008	
80199	16	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	17	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	18	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80277	19	Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
80261	20	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	21	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	July 2, 2016
x 80378	23	Dowel Bar Inserts	Jan. 1, 2017	Jan. 1, 2018
80388	24	Equipment Parking and Storage	Nov. 1, 2017	
80229	25	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80304	26	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
80246	27	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2016
x 80347	28	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	Jan. 1, 2018
80383	29	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	Nov. 1, 2017
80376	30	Hot-Mix Asphalt – Tack Coat	Nov. 1, 2016	
x 80892	31	Lights on Barricades	Jan. 1, 2018	
80336	32	Longitudinal Joint and Crack Patching	April 1, 2014	April 1, 2016
x 80393	33	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	
80045	34	Material Transfer Device	June 15, 1999	Aug. 1, 2014
x 80394	35	Metal Flared End Section for Pipe Culverts	Jan. 1, 2018	
80165	36	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80349	37	Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
80371	38	Pavement Marking Removal	July 1, 2016	
x 80890	39	Payments to Subcontractors	Nov. 2, 2017	
80377	40	Portable Changeable Message Signs	Nov. 1, 2016	April 1, 2017
80389	41	Portland Cement Concrete	Nov. 1, 2017	
80359	42	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2017
80385	43	Portland Cement Concrete Sidewalk	Aug. 1, 2017	
80300	44	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
80328	45	Progress Payments	Nov. 2, 2013	
34261	46	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80157	47	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	48	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2018
80395	49	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
80340	50	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	51	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80391	52	Subcontractor Mobilization Payments	Nov. 2, 2017	
80317	53	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	April 1, 2016
80298	54	Temporary Pavement Marking (NOTE: This special provision was previously named "Pavement Marking Tape Type IV".)	April 1, 2012	April 1, 2017
20338	55	Training Special Provisions	Oct. 15, 1975	
80318	56	Irreversible Pipe Grate for Concrete End Sections (NOTE: This special provision was previously named "Irreversible Pipe Grate".)	Jan. 1, 2013	Jan. 1, 2018
80288	57	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	58	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80071	59	Working Days	Jan. 1, 2002	

The following special provisions are in the 2018 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80368	Light Tower	Article 1069.08	July 1, 2016	
80369	Mast Arm Assembly and Pole	Article 1077.03(a)(1)	July 1, 2016	
80338	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	Recurring CS #35	April 1, 2014	April 1, 2016
80379	Steel Plate Beam Guardrail	Articles 630.02, 630.05, 630.06, and 630.08	Jan. 1, 2017	
80381	Traffic Barrier Terminal, Type 1 Special	Article 631.04	Jan. 1, 2017	
80380	Tubular Markers	Articles 701.03, 701.15, 701.18, and 1106.02	Jan. 1, 2017	

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal - Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

FRICTION AGGREGATE (D-1)

Effective: January 1, 2011

Revised: April 29, 2016

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following.

(a) Description. The coarse aggregate for HMA shall be according to the following table.

Use	Mixture	Aggregates Allowed
Class A	Seal or Cover	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete
HMA Low ESAL	Stabilized Subbase or Shoulders	<u>Allowed Alone or in Combination</u> ^{5/} : Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{1/} Crushed Concrete
HMA High ESAL Low ESAL	Binder IL-19.0 or IL-19.0L SMA Binder	<u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Concrete ^{3/}

Use	Mixture	Aggregates Allowed								
HMA High ESAL Low ESAL	C Surface and Leveling Binder IL-9.5 or IL-9.5L	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}								
	SMA Ndesign 50 Surface									
HMA High ESAL	D Surface and Leveling Binder IL-9.5 SMA Ndesign 50 Surface	<u>Allowed Alone or in Combination</u> ^{5/} : Crushed Gravel Carbonate Crushed Stone (other than Limestone) ^{2/} Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag ^{4/} Crushed Concrete ^{3/}								
		<u>Other Combinations Allowed:</u>								
		<table><tr><td><i>Up to...</i></td><td><i>With...</i></td></tr><tr><td>25% Limestone</td><td>Dolomite</td></tr><tr><td>50% Limestone</td><td>Any Mixture D aggregate other than Dolomite</td></tr><tr><td>75% Limestone</td><td>Crushed Slag (ACBF) or Crushed Sandstone</td></tr></table>	<i>Up to...</i>	<i>With...</i>	25% Limestone	Dolomite	50% Limestone	Any Mixture D aggregate other than Dolomite	75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone
		<i>Up to...</i>	<i>With...</i>							
		25% Limestone	Dolomite							
		50% Limestone	Any Mixture D aggregate other than Dolomite							
		75% Limestone	Crushed Slag (ACBF) or Crushed Sandstone							
HMA High ESAL	E Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/ 6/} : Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.								
		<u>Other Combinations Allowed:</u>								
		<table><tr><td><i>Up to...</i></td><td><i>With...</i></td></tr></table>	<i>Up to...</i>	<i>With...</i>						
<i>Up to...</i>	<i>With...</i>									

Use	Mixture	Aggregates Allowed	
		50% Dolomite ^{2/}	Any Mixture E aggregate
		75% Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone
		75% Crushed Gravel ^{2/} or Crushed Concrete ^{3/}	Crushed Sandstone, Crystalline Crushed Stone, Crushed Slag (ACBF), or Crushed Steel Slag
HMA High ESAL	F Surface IL-9.5 SMA Ndesign 80 Surface	<u>Allowed Alone or in Combination</u> ^{5/ 6/} :	
		Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag No Limestone.	
		<u>Other Combinations Allowed:</u>	
		<i>Up to...</i>	<i>With...</i>
		50% Crushed Gravel ^{2/} , Crushed Concrete ^{3/} , or Dolomite ^{2/}	Crushed Sandstone, Crushed Slag (ACBF), Crushed Steel Slag, or Crystalline Crushed Stone

- 1/ Crushed steel slag allowed in shoulder surface only.
- 2/ Carbonate crushed stone (limestone) and/or crushed gravel shall not be used in SMA Ndesign 80. In SMA Ndesign 50, carbonate crushed stone shall not be blended with any of the other aggregates allowed alone in Ndesign 50 SMA binder or Ndesign 50 SMA surface.
- 3/ Crushed concrete will not be permitted in SMA mixes.
- 4/ Crushed steel slag shall not be used as leveling binder.
- 5/ When combinations of aggregates are used, the blend percent measurements shall be by volume."
- 6/ Combining different types of aggregate will not be permitted in SMA Ndesign 80."

GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)

Effective: June 26, 2006

Revised: April 1, 2016

Add the following to the end of article 1032.05 of the Standard Specifications:

"(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa·s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)
Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, a 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 µm)	95 ± 5
No. 50 (300 µm)	> 20

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

"A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a

uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent."

Revise 1030.02(c) of the Standard Specifications to read:

"(c) RAP Materials (Note 5)1031"

Add the following note to 1030.02 of the Standard Specifications:

Note 5. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013

Revised: January 1, 2018

1) Design Composition and Volumetric Requirements

Revise the table in Article 406.06(d) of the Standard Specifications to read:

"MINIMUM COMPACTED LIFT THICKNESS	
Mixture Composition	Thickness, in. (mm)
IL-4.75	3/4 (19)
SMA-9.5, IL-9.5, IL-9.5L	1 1/2 (38)
SMA-12.5	2 (50)
IL-19.0, IL-19.0L	2 1/4 (57)"

Revise the table in Article 1004.03(c) of the Standard Specifications to read:

"Use	Size/Application	Gradation No.
Class A-1, 2, & 3	3/8 in. (10 mm) Seal	CA 16
Class A-1	1/2 in. (13 mm) Seal	CA 15
Class A-2 & 3	Cover	CA 14
HMA High ESAL	IL-19.0 IL-9.5	CA 11 ^{1/} CA 16, CA 13 ^{3/}
HMA Low ESAL	IL-19.0L IL-9.5L Stabilized Subbase or Shoulders	CA 11 ^{1/} CA 16
SMA ^{2/}	1/2 in. (12.5mm) Binder & Surface IL 9.5 Surface	CA13 ^{3/} , CA14 or CA16 CA16, CA 13 ^{3/}

1/ CA 16 or CA 13 may be blended with the gradations listed.

2/ The coarse aggregates used shall be capable of being combined with stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation and mineral filler to meet the approved mix design and the mix requirements noted herein.

3/ CA 13 shall be 100 percent passing the 1/2 in. (12.5mm) sieve.

Revise Article 1004.03(e) of the Supplemental Specifications to read:

"(e) Absorption. For SMA the coarse aggregate shall also have water absorption ≤ 2.0 percent."

Revise the last paragraph of Article 1102.01 (a) (5) of the Standard Specifications to read:

"IL-4.75 and Stone Matrix Asphalt (SMA) mixtures which contain aggregate having absorptions greater than or equal to 2.0 percent, or which contain steel slag sand, shall have minimum surge bin storage plus haul time of 1.5 hours."

Revise the nomenclature table in Article 1030.01 of the Standard Specifications to read:

"High ESAL	IL-19.0 binder; IL-9.5 surface; IL-4.75; SMA-12.5, SMA-9.5
Low ESAL	IL-19.0L binder; IL-9.5L surface; Stabilized Subbase (HMA) ^{1/} ; HMA Shoulders ^{2/}

1/ Uses 19.0L binder mix.

2/ Uses 19.0L for lower lifts and 9.5L for surface lift."

Revise Article 1030.02 of the Standard Specifications and Supplemental Specifications to read:

"1030.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.03
(b) Fine Aggregate	1003.03
(c) RAP Material	1031
(d) Mineral Filler	1011
(e) Hydrated Lime	1012.01
(f) Slaked Quicklime (Note 1)	
(g) Performance Graded Asphalt Binder (Note 2)	1032
(h) Fibers (Note 3)	
(i) Warm Mix Asphalt (WMA) Technologies (Note 4)	

Note 1. Slaked quicklime shall be according to ASTM C 5.

Note 2. The asphalt binder shall be an SBS PG 76-28 when the SMA is used on a full-depth asphalt pavement and SBS PG 76-22 when used as an overlay, except where modified herein. The asphalt binder shall be an Elvaloy or SBS PG 76-22 for IL-4.75, except where modified herein. The elastic recovery shall be a minimum of 80.

Note 3. A stabilizing additive such as cellulose or mineral fiber shall be added to the SMA mixture according to Illinois Modified AASHTO M 325. The stabilizing additive shall meet the Fiber Quality Requirements listed in Illinois Modified AASHTO M 325. Prior to approval and use of fibers, the Contractor shall submit a notarized certification by the producer of these materials stating they meet these requirements. Reclaimed Asphalt Shingles (RAS) may be used in Stone Matrix Asphalt (SMA) mixtures designed with an SBA polymer modifier as a fiber additive if the mix design with RAS included meets AASHTO T305 requirements. The RAS shall be from a certified source that

produces either Type 1 or Type 2. Material shall meet requirements noted herein and the actual dosage rate will be determined by the Engineer.

Note 4. Warm mix additives or foaming processes shall be selected from the current Bureau of Materials and Physical Research Approved List, "Warm Mix Asphalt Technologies".

Revise Article 1030.04(a)(1) of the Standard Specifications and the Supplemental Specifications to read:

"(1) High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/}										
Sieve Size	IL-19.0 mm		SMA ^{4/} IL-12.5 mm		SMA ^{4/} IL-9.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in. (37.5 mm)										
1 in. (25 mm)		100								
3/4 in. (19 mm)	90	100		100						
1/2 in. (12.5 mm)	75	89	80	100		100		100		100
3/8 in. (9.5 mm)				65	80	100	90	100		100
#4 (4.75 mm)	40	60	20	30	38	50	34	69	90	100
#8 (2.36 mm)	20	42	16	24 ^{5/}	16	32 ^{5/}	34 ^{6/}	52 ^{2/}	70	90
#16 (1.18 mm)	15	30					10	32	50	65
#30 (600 µm)			12	16	12	18				
#50 (300 µm)	6	15					4	15	15	30
#100 (150 µm)	4	9					3	10	10	18
#200 (75 µm)	3	6	7.0	9.0 ^{3/}	7.5	9.5 ^{3/}	4	6	7	9 ^{3/}
Ratio Dust/Asphalt Binder		1.0		1.5		1.5		1.0		1.0

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with N_{design} = 90.
- 3/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.
- 4/ The maximum percent passing the #635 (20 µm) sieve shall be ≤ 3 percent.

- 5/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted above the percentage stated on the table.
- 6/ When establishing the Adjusted Job Mix Formula (AJMF) the percent passing the #8 (2.36 mm) sieve shall not be adjusted below 34 percent.

Revise Article 1030.04(b)(1) of the Standard Specifications to read:

- "(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL				
	Voids in the Mineral Aggregate (VMA), % minimum			Voids Filled with Asphalt Binder (VFA), %
Ndesign	IL-19.0	IL-9.5	IL-4.75 ^{1/}	
50	13.5	15.0	18.5	65 - 78 ^{2/}
70				65 - 75
90				

1/ Maximum Draindown for IL-4.75 shall be 0.3 percent

2/ VFA for IL-4.75 shall be 72-85 percent"

Replace Article 1030.04(b)(3) of the Standard Specifications with the following:

- "(3) SMA Mixtures.

Volumetric Requirements SMA ^{1/}			
Ndesign	Design Air Voids Target %	Voids in the Mineral Aggregate (VMA), % mln.	Voids Filled with Asphalt (VFA), %
80 ^{4/}	3.5	17.0 ^{2/}	75 - 83
		16.0 ^{3/}	

1/ Maximum draindown shall be 0.3 percent. The draindown shall be determined at the JMF asphalt binder content at the mixing temperature plus 30 °F.

2/ Applies when specific gravity of coarse aggregate is ≥ 2.760 .

3/ Applies when specific gravity of coarse aggregate is < 2.760 .

4/ Blending of different types of aggregate will not be permitted.

For surface course, the coarse aggregate can be crushed steel slag, crystalline crushed stone or crushed sandstone. For binder course, coarse aggregate shall be crushed stone (dolomite), crushed gravel, crystalline crushed stone, or crushed sandstone.

Add to the end of Article 1030.05 (d) (2) a. of the Standard Specifications:

"During production, the Contractor shall test SMA mixtures for draindown according to AASHTO T305 at a frequency of 1 per day of production."

Delete last sentence of the second paragraph of Article 1102.01(a) (4) b. 2.

Add to the end of Article 1102.01 (a) (4) b. 2.:

"As an option, collected dust (baghouse) may be used in lieu of manufactured mineral filler according to the following:

(a.) Sufficient collected dust (baghouse) is available for production of the SMA mix for the entire project.

(b.) A mix design was prepared based on collected dust (baghouse).

2) Design Verification and Production

Revise Article 1030.04 (d) of the Standard Specifications to read:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification and shall meet the following requirements:

(1) Hamburg Wheel Test criteria. The maximum allowable rut depth shall be 0.5 in. (12.5 mm). The minimum number of wheel passes at the 0.5 in. (12.5 mm) rut depth criteria shall be based on the high temperature binder grade of the mix as specified in the mix requirements table of the plans.

Illinois Modified AASHTO T 324 Requirements ^{1/}

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG 70 -XX (or higher)	20,000	12.5
PG 64 -XX (or lower)	10,000	12.5

- 1/ When produced at temperatures of $275 \pm 5^\circ\text{F}$ ($135 \pm 3^\circ\text{C}$) or less, loose Warm Mix Asphalt shall be oven aged at $270 \pm 5^\circ\text{F}$ ($132 \pm 3^\circ\text{C}$) for two hours prior to gyratory compaction of Hamburg Wheel specimens.

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.

For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

- (2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 60 psi (415 kPa) for non-polymer modified performance graded (PG) asphalt binder and 80 psi (550 kPa) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 200 psi (1380 kPa)."

Production Testing. Revise first paragraph of Article 1030.06(a) of the Standard Specifications to read:

"(a) High ESAL, IL-4.75, WMA, and SMA Mixtures. For each contract, a 300 ton (275 metric tons) test strip, except for SMA mixtures it will be 400 ton (363 metric ton), will be required at the beginning of HMA production for each mixture at the beginning of each construction year according to the Manual of Test Procedures for Materials "Hot Mix Asphalt Test Strip Procedures". At the request of the Producer, the Engineer may waive the test strip if previous construction during the current construction year has demonstrated the constructability of the mix using Department test results."

Add the following after the sixth paragraph in Article 1030.06 (a) of the Standard Specifications:

"The Hamburg Wheel test shall also be conducted on all HMA mixtures from a sample taken within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria"

Method of Measurement:

Add the following after the fourth paragraph of Article 406.13 (b):

"The plan quantities of SMA mixtures shall be adjusted using the actual approved binder and surface Mix Design's Gmb."

Basis of Payment.

Replace the fourth paragraph of Article 406.14 of the Standard Specifications with the following:

"Stone matrix asphalt will be paid for at the contract unit price per ton (metric ton) for POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified; and POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, of the mixture composition and Ndesign specified."

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012

Revise: January 1, 2018

Revise Section 1031 of the Standard Specifications to read:

"SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting from cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources", by weight of RAS. All RAS used shall come from a Central Bureau of Materials approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve. RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. Additional processed RAP (FRAP) shall be stockpiled in a separate working pile, as designated in the QC Plan, and only added to the sealed stockpile when test results for the working pile are complete and are found to meet tolerances specified herein for the original sealed FRAP stockpile. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and FRAP) shall be identified by signs indicating the type as listed below (i.e. "Non- Quality, FRAP -#4 or Type 2 RAS", etc...).

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. All FRAP shall be processed prior to testing and sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the FRAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, HMA (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 in. (75 mm) single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality, but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from HMA shoulders, bituminous stabilized subbases or HMA (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP or FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of Type 1 RAS with Type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written

approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type, and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. FRAP and RAS testing shall be according to the following.

(a) FRAP Testing. When used in HMA, the FRAP shall be sampled and tested either during processing or after stockpiling. It shall also be sampled during HMA production.

- (1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).
- (2) Incoming Material. For testing as incoming material, washed extraction samples shall be run at a minimum frequency of one sample per 2000 tons (1800 metric tons) or once per week, whichever comes first.
- (3) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample of FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS shall be sampled and tested during stockpiling according to Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Sources". The Contractor shall also sample as incoming material at the HMA plant.

- (1) During Stockpiling. Washed extraction and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than

1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

- (2) Incoming Material. For testing as incoming material at the HMA plant, washed extraction shall be run at the minimum frequency of one sample per 250 tons (227 metric tons). A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). The Incoming material test results shall meet the tolerances specified herein.

The Contractor shall obtain and make available all test results from start of the Initial stockpile sampled and tested at the shingle processing facility in accordance with the facility's QC Plan.

Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of test results shall be according to the following.

- (a) Evaluation of FRAP Test Results. All test results shall be compiled to include asphalt binder content, gradation and, when applicable (for slag), G_{mm} . A five test average of results from the original pile will be used in the mix designs. Individual extraction test results run thereafter, shall be compared to the average used for the mix design, and will be accepted if within the tolerances listed below.

Parameter	FRAP
No. 4 (4.75 mm)	$\pm 6 \%$
No. 8 (2.36 mm)	$\pm 5 \%$
No. 30 (600 μm)	$\pm 5 \%$
No. 200 (75 μm)	$\pm 2.0 \%$
Asphalt Binder	$\pm 0.3 \%$
G_{mm}	± 0.03 ^{1/}

- 1/ For stockpile with slag or steel slag present as determined in the current Manual of Test Procedures Appendix B 21, "Determination of Reclaimed Asphalt Pavement Aggregate Bulk Specific Gravity".

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the FRAP stockpile shall not be

used in Hot-Mix Asphalt unless the FRAP representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

The Contractor shall maintain a representative moving average of five tests to be used for Hot-Mix Asphalt production.

With the approval of the Engineer, the Ignition oven may be substituted for extractions according to the ITP, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)" or Illinois Modified AASHTO T-164-11, Test Method A.

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. A five test average of results from the original pile will be used in the mix designs. Individual test results run thereafter, when compared to the average used for the mix design, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	$\pm 5 \%$
No. 16 (1.18 mm)	$\pm 5 \%$
No. 30 (600 μm)	$\pm 4 \%$
No. 200 (75 μm)	$\pm 2.5 \%$
Asphalt Binder Content	$\pm 2.0 \%$

If any individual sieve and/or asphalt binder content tests are out of the above tolerances when compared to the average used for the mix design, the RAS shall not be used in Hot-Mix Asphalt unless the RAS representing those tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

- (c) Quality Assurance by the Engineer. The Engineer may witness the sampling and splitting conduct assurance tests on split samples taken by the Contractor for quality control testing a minimum of once a month.

The overall testing frequency will be performed over the entire range of Contractor samples for asphalt binder content and gradation. The Engineer may select any or all split samples for assurance testing. The test results will be made available to the Contractor as soon as they become available.

The Engineer will notify the Contractor of observed deficiencies.

Differences between the Contractor's and the Engineer's split sample test results will be considered acceptable if within the following limits.

Test Parameter	Acceptable Limits of Precision
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% Passing: ^{1/}	FRAP	RAS
1/2 in.	5.0%	
No. 4	5.0%	
No. 8	3.0%	4.0%
No. 30	2.0%	4.0%
No. 200	2.2%	4.0%
Asphalt Binder Content	0.3%	3.0%
G _{mm}	0.030	

1/ Based on washed extraction.

In the event comparisons are outside the above acceptable limits of precision, the Engineer will immediately investigate.

- (d) Acceptance by the Engineer. Acceptable of the material will be based on the validation of the Contractor's quality control by the assurance process.

1031.05 Quality Designation of Aggregate in RAP and FRAP.

- (a) RAP. The aggregate quality of the RAP for homogeneous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

- (1) RAP from Class I, HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
- (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

- (b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant laboratory prequalified by the Department for the specified testing. The consultant laboratory shall submit the test results along with the recovered aggregate to

the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the Central Bureau of Materials Aggregate Lab for MicroDeval Testing, according to ITP 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of "B" quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

1031.06 Use of FRAP and/or RAS in HMA. The use of FRAP and/or RAS shall be the Contractor's option when constructing HMA in all contracts.

(a) FRAP. The use of FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all FRAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with FRAP in HMA mixtures up to a maximum of 5.0 percent by weight of the total mix.

When FRAP is used alone or FRAP is used in conjunction with RAS, the percent of virgin asphalt binder replacement (ABR) shall not exceed the amounts indicated in the table below for a given N Design.

Max Asphalt Binder Replacement for FRAP with RAS Combination

HMA Mixtures ^{1/ 2/ 4/}	Maximum % ABR		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/}
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
4.75 mm N-50			40
SMA N-80			30

- 1/ For Low ESAL HMA shoulder and stabilized subbase, the percent asphalt binder replacement shall not exceed 50 % of the total asphalt binder in the mixture.
- 2/ When the binder replacement exceeds 15 % for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 % binder replacement using a virgin asphalt binder grade of PG64-22 will be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 %, the required virgin asphalt binder grade shall be PG64-28.
- 3/ When the ABR for SMA or IL-4.75 is 15 % or less, the required virgin asphalt binder shall be SBS PG76-22 and the elastic recovery shall be a minimum of 80. When the ABR for SMA or IL-4.75 exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28 and the elastic recovery shall be a minimum of 80.
- 4/ When FRAP or RAS is used alone, the maximum percent asphalt binder replacement designated on the table shall be reduced by 10 %.

1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

(a) FRAP and/or RAS. FRAP and /or RAS mix designs shall be submitted for verification. If additional FRAP or RAS stockpiles are tested and found to be within tolerance, as defined under "Evaluation of Tests" herein, and meet all requirements herein, the additional FRAP or RAS stockpiles may be used in the original design at the percent previously verified.

(b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design.

The RAP, FRAP and RAS stone specific gravities (G_{sb}) shall be according to the "Determination of Aggregate Bulk (Dry) Specific Gravity (G_{sb}) or Reclaimed Asphalt Pavement (RAP) and

Reclaimed Asphalt Shingles (RAS)" procedure in the Department's Manual of Test Procedures for Materials.

1031.08 HMA Production. HMA production utilizing FRAP and/or RAS shall be as follows.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS and FRAP feed system to remove or reduce oversized material. .

If during mix production, corrective actions fail to maintain FRAP, RAS or QC/QA test results within control tolerances or the requirements listed herein the Contractor shall cease production of the mixture containing FRAP or RAS and conduct an investigation that may require a new mix design.

(a) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

(b) HMA Plant Requirements. HMA plants utilizing FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

- h. Aggregate RAS and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS and FRAP are printed in wet condition.)
 - i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
 - j. Accumulated mixture tonnage.
 - k. Dust Removed (accumulated to the nearest 0.1 ton (0.1 metric ton))
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - f. RAS and FRAP weight to the nearest pound (kilogram).
 - g. Virgin asphalt binder weight to the nearest pound (kilogram).
 - h. Residual asphalt binder in the RAS and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Wedge Shoulders, Type B.
The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used shall be according to the current Central Bureau of Materials Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".
- (b) Gradation. The RAP material shall meet the gradation requirements for CA 6 according to Article 1004.01(c), except the requirements for the minus No. 200 (75 μ m) sieve shall not apply. The sample for the RAP material shall be air dried to constant weight prior to being tested for gradation."



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: May 2, 2018

TO: Tim Schloneger, Village Manager

FROM: Michele Zimmerman, Assistant Public Works Director

SUBJECT: *Storm Sewer Cleaning Bid*

Bids were opened on April 24, 2018 for contracted service for storm sewer structure cleaning. There were 3 bidders on the program with National Power Rodding out of Chicago coming in the lowest at \$50,000.00. We are on a 5 year cleaning cycle and this marks year one of that cycle. This year's contract proposes that 250 structures be cleaned which are shown on the maps attached to the contract document.

Public Works has used National Power Rodding in the past for both storm and sanitary sewer line flushing and structure cleaning. We found their service to be excellent. Provided reference were also checked with favorable results.

Money has been budgeted in the Motor Fuel Tax Fund to pay for this service. Therefore, it is our recommendation that the Committee of the Whole take action to move this matter forward to the Village Board for approval of National Power Rodding to perform storm sewer structure cleaning services for the bid price of \$50,000.00.



PROPOSAL SUBMITTED BY		
National Power Rodding Corp.		
Contractor's Name		
2500 W. Arlington St.		
Street		P.O. Box
Chicago	IL	60612
City	State	Zip Code

STATE OF ILLINOIS

COUNTY McHenry & Kane
Village of Algonquin
(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE 2018 Drainage Structure Clean
SECTION NO. 18-00000-00-GM
TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required)

☐ PLANS (required)

☐ CONTRACT BOND (when required)

For Municipal Projects
Submitted/Approved/Passed

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation

☐ Concurrence in approval of award

Regional Engineer

Date

For County and Road District Projects
Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

County McHenry & Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Drainage Clean

1. THIS AGREEMENT, made and concluded the 15th day of May, 2018,
Month and Year

between the Village of Algonquin
acting by and through its President & Board of Trustees known as the party of the first part, and
National Power Rodding his/their executors, administrators, successors or assigns,
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 18-00000-00-GM, in Village of Algonquin, approved by the Illinois Department of Transportation on March 12, 2018, are essential documents of this
Date
contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: The Village of Algonquin
Clerk By _____
Party of the First Part

(Seal)

(If a Corporation)

Corporate Name _____

By _____
President Party of the Second Part

(If a Co-Partnership)

Attest: _____

Secretary

Partners doing Business under the firm name of

Party of the Second Part

(If an individual)

Party of the Second Part



Route 2018 Drainage Clean
County McHenry & Kane
Local Agency Village of Algonqui
Section 18-00000-00-GM

We , _____

a/an) ☐ Individual ☐ Co-partnership ☐ Corporation organized under the laws of the State of _____ ,
as PRINCIPAL, and _____

_____ as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of _____

_____ Dollars (_____), lawful money of the
United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors,
administrators, successors, jointly to pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said Principal has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. _____

PRINCIPAL

<p>_____ (Company Name)</p> <p>By: _____ (Signature & Title)</p> <p>Attest: _____ (Signature & Title)</p>	<p>_____ (Company Name)</p> <p>By: _____ (Signature & Title)</p> <p>Attest: _____ (Signature & Title)</p>
---	---

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS,

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

SURETY

<p>_____ (Name of Surety)</p>	<p>By: _____ (Signature of Attorney-in-Fact)</p>
-----------------------------------	--

STATE OF ILLINOIS.

(SEAL)

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

Approved this _____ day of _____, A.D. _____

Attest:

<p>_____ Clerk</p>	<p>_____ (Awarding Authority)</p> <p>_____ (Chairman/Mayor/President)</p>
------------------------	---

RETURN WITH BID

NOTICE TO BIDDERS

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
2018 Drainage Structure
Route Cleaning

Sealed proposals for the improvement described below will be received at the office of Village of Algonquin, Village Hall
2200 Harnish Drive, Algonquin, IL 60102 until 10:30 AM on April 24, 2018
Address Time Date

Sealed proposals will be opened and read publicly at the office of Village of Algonquin, Village Hall
2200 Harnish Drive, Algonquin, IL 60102 at 10:30 AM on April 24, 2018
Address Time Date

DESCRIPTION OF WORK

Name 2018 Drainage Structure Cleaning Length: n/a feet (n/a miles)
Location Various locations throughout the Village of Algonquin, Illinois
Proposed Improvement Cleaning of various drainage structures throughout the Village.

1. Plans and proposal forms will be available in the office of The Village of Algonquin Village Hall, 2200 Harnish Drive,
Algonquin, IL, 60102 for the sum of Ten Dollars (\$10.00) (Electronic Only). Contact: Lee Fell (847-823-0500).
Address

2. ☐ Prequalification

If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:

- a. BLR 12200: Local Public Agency Formal Contract Proposal
- b. BLR 12200a Schedule of Prices
- c. BLR 12230: Proposal Bid Bond (if applicable)
- d. BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
- e. BLR 12326: Affidavit of Illinois Business Office

RETURN WITH BID

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals

RETURN WITH BID

PROPOSAL

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Drainage Structure Cleaning

1. Proposal of National Power Rodding Corp.

for the improvement of the above section by the construction of _____
Cleaning of various drainage structures throughout the Village.

a total distance of n/a feet, of which a distance of n/a feet, (n/a miles) are to be improved.

2. The plans for the proposed work are those prepared by Christopher B. Burke Engineering, Ltd.
3. The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work within N/A working days or by N/A unless additional time is granted in accordance with the specifications.
6. A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will not be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:
Village of Algonquin Clerks Office
The amount of the check is _____ (5% of bid amount).
7. In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: _____.
8. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
9. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
10. A bid will be declared unacceptable if neither a unit price nor a total price is shown.
11. The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
12. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID

SCHEDULE OF PRICES

County McHenry and Kane
 Local Public Agency Village of Algonquin
 Section 18-00000-00-GM
 Route 2018 Drainage Structure Cleaning

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for Making Entire Improvements					
Bidder's Proposal for BASE BID					
Bidder's Proposal for BASE BID					
Item No.	Items	Unit	Quantity	Unit Price	Total Cost
1	DRAINAGE STRUCTURES TO BE CLEANED	EACH	250	\$ 200.00	\$ 50,000.00
Bidder's Proposal for BASE BID					\$ 50,000.00

BID BOND**TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA**

Hartford, Connecticut 06183

CONTRACTOR:*(Name, legal status and address)*

National Power Rodding Corp.
2500 W. Arthington Street
Chicago, IL 60612

SURETY:*(Name, legal status and principal place of business)*

Travelers Casualty and Surety Company of America
One Tower Square
Hartford, CT 06183

OWNER:*(Name, legal status and address):*

Village of Algonquin
2200 Harnish Dr.
Algonquin, IL 60102

BOND AMOUNT: Five percent of total bid (5 %)

PROJECT:*(Name, location or address, and Principal number, if any)*

Storm Sewer Cleaning

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 24th day of April, 2018


(Witness)


(Witness) Gina M. Damato

National Power Rodding Corp.

(Principal)

(Seal)

(Title)

William T. Kreidler, President

Travelers Casualty and Surety Company of America

(Surety)

(Seal)

(Title) Oscar F. Rincon

Attorney-in-Fact

The Company executing this bond vouches that this document conforms to American Institute of Architects Document A310, 2010 Edition



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Oscar F. Rincon** of **Chicago/Naperville, Illinois**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 3rd day of February, 2017.



State of Connecticut

City of Hartford ss.

By: _____

Robert L. Raney
Robert L. Raney, Senior Vice President

On this the 3rd day of February, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2021



Marie C. Tetreault
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 24th day of April 2018



Kevin E. Hughes
Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.**



STATE OF ILLINOIS
COUNTY OF COOK



I, Brenda D. Hockberger a Notary Public in and for said County, do hereby
certify that Oscar F. Rincon Attorney -in-Fact, of the:

TRAVELERS CASUALTY & SURETY COMPANY
TRAVELERS CASUALTY & SURETY COMPANY OF AMERICA
FARMINGTON CASUALTY COMPANY
SEABOARD SURETY COMPANY
UNITED STATES FIDELITY AND GUARANTY COMPANY
ST. PAUL FIRE AND MARINE INSURANCE COMPANY
FIDELITY AND GUARANTY INSURANCE COMPANY
FIDELITY AND GUARANTY INSURANCE UNDERWRITERS, INC.
ST. PAUL GUARDIAN INSURANCE COMPANY
ST. PAUL MERCURY INSURANCE COMPANY

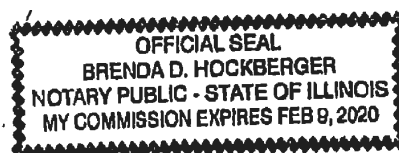
Who is personally known to me to be the same person, whose name is subscribed to the foregoing,
instrument, appeared before me this day in person, and acknowledged that they signed, sealed, and
delivered said instrument for and on behalf of:

TRAVELERS CASUALTY & SURETY COMPANY
TRAVELERS CASUALTY & SURETY COMPANY OF AMERICA
FARMINGTON CASUALTY COMPANY
SEABOARD SURETY COMPANY
UNITED STATES FIDELITY AND GUARANTY COMPANY
ST. PAUL FIRE AND MARINE INSURANCE COMPANY
FIDELITY AND GUARANTY INSURANCE COMPANY
FIDELITY AND GUARANTY INSURANCE UNDERWRITERS, INC.
ST. PAUL GUARDIAN INSURANCE COMPANY
ST. PAUL MERCURY INSURANCE COMPANY

For the uses and purposed therein set forth.

Given under my hand and notarial seal at my office in the City of Naperville in said
County, this 24th day of April A.D. 20 18

Brenda D. Hockberger
Notary Public



RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County	McHenry and Kane
Local Public Agency	Village of Algonquin
Section Number	18-00000-00-GM
Route	2018 Drainage Structure Cleaning

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart 1 of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will not be issued unless both sides of this form are completed in detail. Use additional forms as needed to list all work.

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owners estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.						Accumulated Totals
Earthwork						
Portland Cement Concrete Paving						
HMA Plant Mix						
HMA Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases & Surfaces						
Highway, R.R. and Waterway Structures						
Drainage	***SEE ATTACHED***					
Electrical						
Cover and Seal Coats						
Concrete Construction						
Landsoaping						
Fencing						
Guardrail						
Painting						
Signing						
Cold Milling, Planning & Rotomilling						
Demolition						
Pavement Markings (Paint)						
Other Construction (List)						
						\$ 0.00
Totals						

BC 57 (Rev. 08/17/10)

Part III. Work Subcontracted to Others.

For each contract described in Part I, list all the work you have subcontracted to others.

	1	2	3	4	Awards Pending
Subcontractor	***SEE ATTACHED***				
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted					

I, being duly sworn, do hereby declare that this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates.

Subscribed and sworn to before me

this 24th day of April, 2018

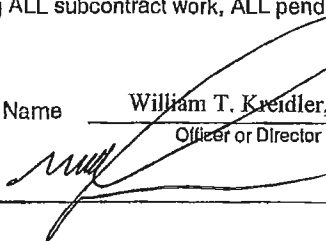
Type or Print Name

William T. Kreidler, President

Officer or Director

Title

Signed



Notary Public

8/30/19

My commission expires

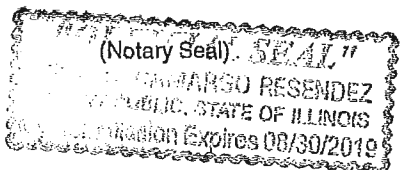
Company

National Power Rodding Corp.

Address

2500 W. Arthington St.

Chicago, IL 60612





NATIONAL POWER RODDING
A Carylton Company

2500 West Arthington Street
Chicago, IL 60612
p: (312) 666-7700
f: (312) 666-0748
www.nationalpowerrodding.com

Contracts in Progress and to be Started

ACCOUNT	CONTRACT AMOUNT
Metropolitan Water Reclamation District <i>TV Inspection and Recording of Sewer and Manholes Contract 13-806-2S</i>	\$ 1,300,000.00
City of Elmhurst <i>2017 Sanitary Manhole Rehab</i>	\$ 550,000.00
Kenny Construction <i>Clean and TV for City of Chicago Sewer Lining Contract</i>	\$ 500,000.00
Metropolitan Council <i>CCTV Interceptor Inspection - North Metro</i>	\$ 135,000.00
Village of Woodridge <i>Sanitary Sewer MH Rehab</i>	\$ 100,000.00
City of Round Rock, TX <i>Parkfield Circle Culvert Rehabilitation</i>	\$ 112,000.00
Various IDOT Subcontracts <i>Clean/TV</i>	\$ 100,000.00
Insituform <i>Various Contracts for Clean/TV for Lining</i>	\$ 81,000.00
Village of Hinsdale <i>2017 Sewer Jetting/TV/Root Cutting</i>	\$ 57,000.00
TOTAL	\$ 2,935,000.00

RETURN WITH BID

SIGNATURES

County McHenry and Kane
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Drainage Structure Cleaning

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

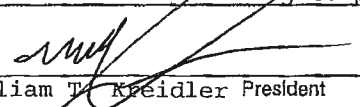
Signed By _____

Business Address _____

Inset Names and Addressed of All Partners { _____

(If a corporation)

Corporate Name National Power Rodding Corp.

Signed By 

William T. Kreidler President

Business Address 2500 W Arthington St.
Chicago, IL 60612

Insert Names of Officers {

President William T. Kreidler

Secretary Reid W. Ruprecht

Treasurer _____

Attest: 

Secretary



**Illinois Department
of Transportation**

**Apprenticeship or Training
Program Certification**

Return with Bid

Route 2018 Drainage Structure Cleaning

County McHenry & Kane

Local Agency Village of Algonquin

Section 18-00000-00-GM

All contractors are required to complete the following certification:

☐ For this contract proposal or for all groups in this deliver and install proposal.

☐ For the following deliver and install groups in this material proposal:

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
- II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
- III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

Chicagoland Laborers' JATC

- IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership. ☐

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: National Power Rodding Corp.

By: 

(Signature)

Address: 2500 W Arthington St., Chicago, IL 60612

Title: William F. Kreidler, President

The United States Department of Labor

Office of Apprenticeship Training, Employer and Labor Services

Bureau of Apprenticeship and Training

Certificate of Registration

Chicagoland Laborers' J.A.T.C.

Carol Stream, Illinois

For the Trade - Construction Craft Laborer

Registered as part of the National Apprenticeship Program

in accordance with the basic standards of apprenticeship

established by the Secretary of Labor

April 12, 1999

Date REVISED August 13, 2004

IL 017990001

Registration No.



L. L. Chao

Secretary of Labor

Anthony S. Swasey

Administrator, Apprenticeship Training, Employer and Labor Services

RETURN WITH BID



Affidavit of Illinois Business Office

County McHenry and Kane

Local Public Agency Village of Algonquin

Section Number 18-00000-00-RS

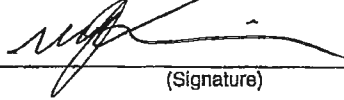
Route 2018 Drainage Structure Cleaning

State of Illinois)
) ss.
County of McHenry and Kane)

I, William T. Kreidler of Chicago, Illinois,
(Name of Affiant) (City of Affiant) (State of Affiant)

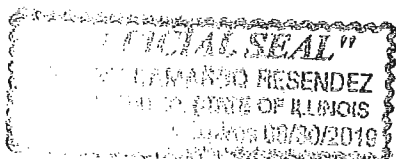
being first duly sworn upon oath, states as follows:

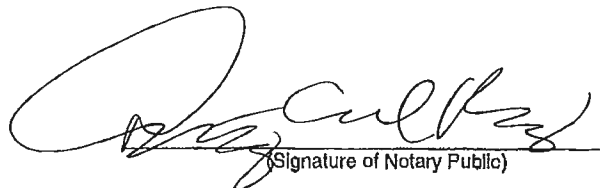
1. That I am the President of National Power Rodding Corp.
officer or position bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, National Power Rodding Corp., will maintain a
(bidder)
business office in the State of Illinois which will be located in Cook County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.


(Signature)
William T. Kreidler, President
(Print Name of Affiant)

This instrument was acknowledged before me on 24th day of April, 2018.

(SEAL)




(Signature of Notary Public)

ADDENDUM #1
Village of Algonquin
2018 Drainage Structure Cleaning
Date: April 13, 2018

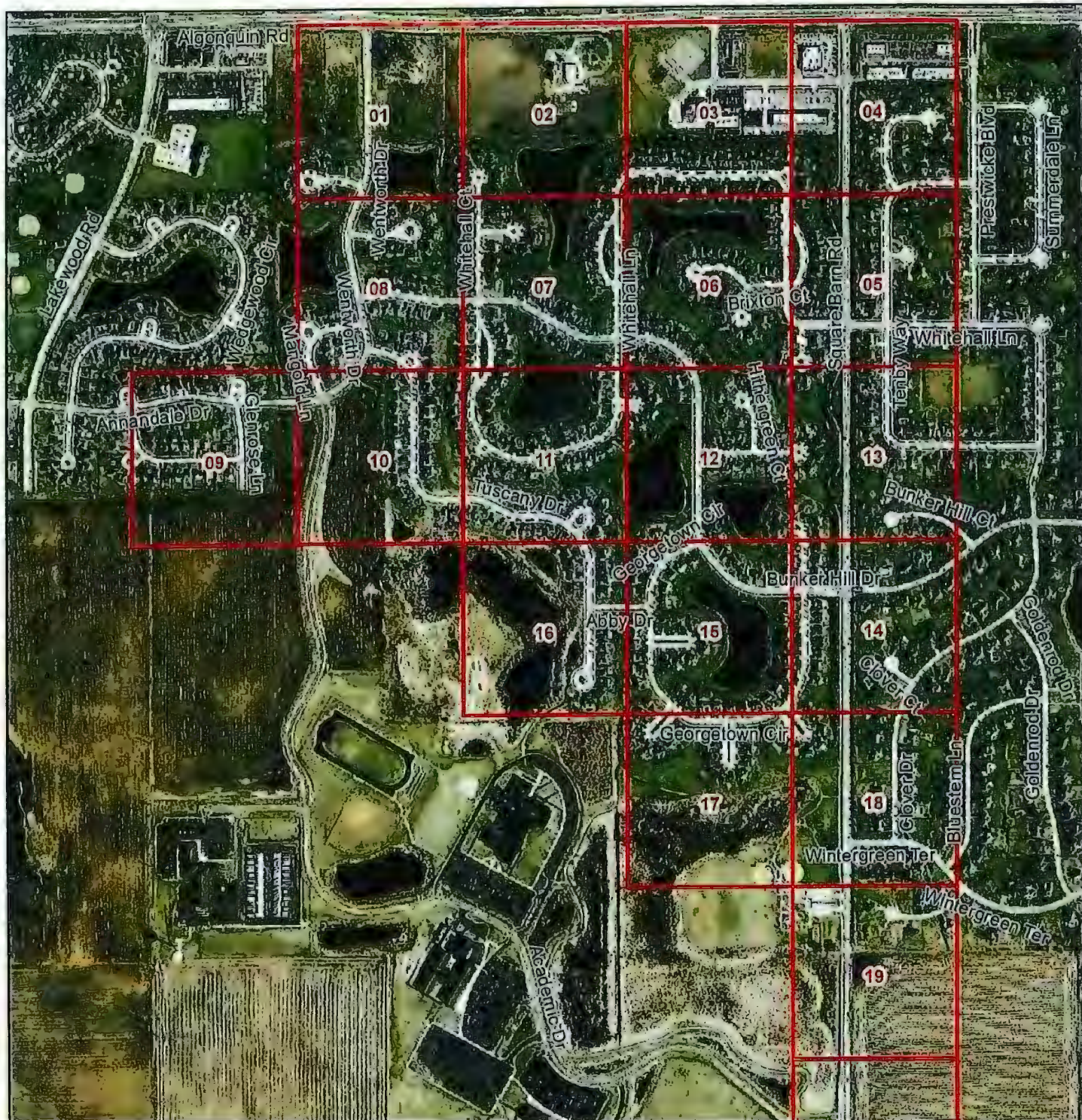
Questions from Visu-Sewer dated April 11, 2018

Question 1: There are no plans or callouts showing where these structures are located. There are no depths or diameters (of culvert or structure). There is no way to know whether the structures are located along Route 62. It is unclear whether the 250 structures would be released to us all at once, or parceled out in drips and drabs.

Answer 1: The structures consist of Inlets, Catch Basins and Manholes. The range in size from 12" to 48". All that are to be cleaned are accessible from the streets (no backyards or anything). All are on local roads – nothing on major arterials or collectors such as Algonquin and Randall except there are structures on Square Bard Road. All the cleaning will be released at one time – not in drips and drabs. The contractor can look at these structures in the field to verify the amount of debris. Attached are location maps for the drainage structures to be cleaned and have been included in the bid booklet.

****Please note that the bid opening date has not changed from April 24, 2018 at 10:30 a.m. at the Village of Algonquin Village Hall.**

Please acknowledge the receipt of this addendum by signing and returning the attached form to Michelle Weber. Additionally, Addendum #1 shall be attached to the bid. If Addendum #1 is not attached to the bid, the bid may be disqualified. Fax to Michelle Weber, Village of Algonquin Village Hall, at (847) 658-4564.





01

Structure Type




- CATCHBASIN
- INLET
- MANHOLE

NOTES



02

Structure Type

-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



03

Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES

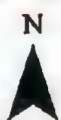


N
04

Structure Type

- CATCHBASIN
- INLET
- ★ MANHOLE

NOTES



05

Structure Type




- CATCHBASIN
- INLET
- MANHOLE

NOTES



06

Structure Type

-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



07

Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES



08

Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES

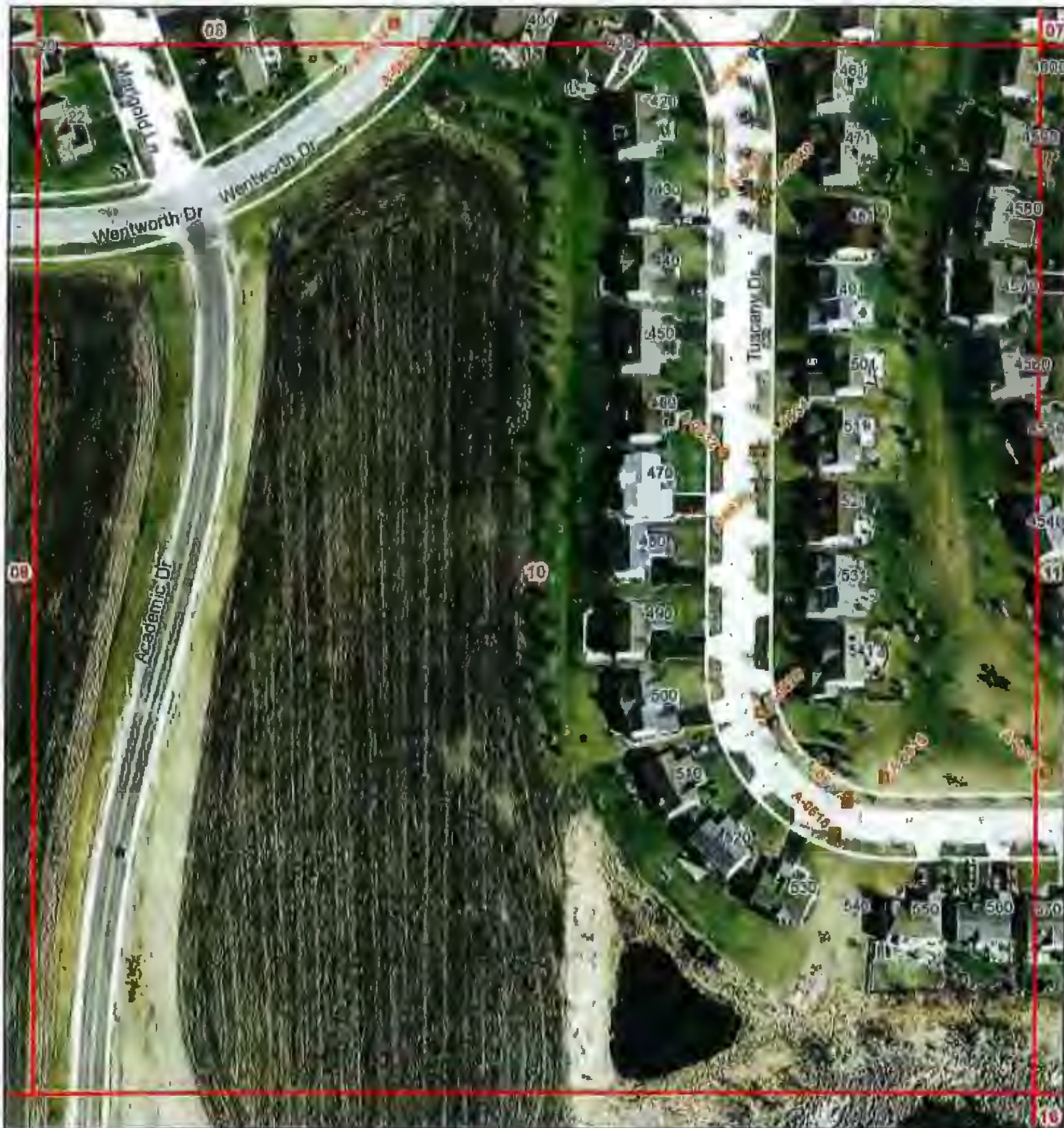


09

Structure Type

- ☐ CATCHBASIN
- ☐ INLET
- ★ MANHOLE

NOTES



10

Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES



11

Structure Type




- CATCHBASIN
- INLET
- MANHOLE

NOTES



12

Structure Type

-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



13

Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES



15

Structure Type




-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



16

Structure Type




-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



17

Structure Type

-  CATCHBASIN
-  INLET
-  MANHOLE

NOTES



18

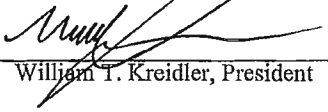
Structure Type

- CATCHBASIN
- INLET
- MANHOLE

NOTES

ADDENDUM #1
Village of Algonquin
2018 Drainage Structure Cleaning
Date: April 13, 2018

I acknowledge the receipt of Addendum #1 for the above referenced project:

Signed: 

William T. Kreidler, President

National Power Rodding Corp.

Name of Company

**ADDENDUM #2
Village of Algonquin
2018 Drainage Structure Cleaning
Date: April 19, 2018**

Clarification #1

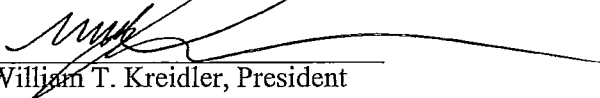
Clarification 1: Bid bonds *will* be accepted as a proposal guaranty.

****Please note that the bid opening date has not changed from April 24, 2018 at 10:30 a.m. at the Village of Algonquin Village Hall.**

Please acknowledge the receipt of this addendum by signing and returning the attached form to Michelle Weber. Additionally, Addendum #2 shall be attached to the bid. If Addendum #2 is not attached to the bid, the bid may be disqualified. Fax to Michelle Weber, Village of Algonquin Village Hall, at (847) 658-4564.

ADDENDUM #2
Village of Algonquin
2018 Drainage Structure Cleaning
Date: April 19, 2018

I acknowledge the receipt of Addendum #2 for the above referenced project:

Signed: 

William T. Kreidler, President

National Power Rodding Corp.

Name of Company



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

- M E M O R A N D U M -

DATE: May 3, 2018

TO: Tim Schloneger, Village Manager

FROM: Michele Zimmerman, Assistant Public Works Director

SUBJECT: *Street Light Maintenance Bid*

On April 24, 2018, bids were opened for Village owned street light maintenance. One bid was received for the project, which was H&H Electric Company out of Franklin Park in the amount of \$188,290.78.

This contract provides for the maintenance of 22 controller cabinets to attain and maintain Village owned street lights and lighting systems, as well as non-routine repair work to carry out emergency repairs, and for the repair of the street lighting equipment and cabling.

In the attached schedule of prices provided by the contractor, items A1 through A-22 (highlighted in green) are the 22 controller cabinets which require routine monthly maintenance as specified in the bid (pages 5-10). The Village will get charged \$214.60 per cabinet every month, which results in a yearly maintenance cost of \$56,654.40.

$\$214.60 \times 12 = \$2,575.20$ per year for each cabinet

$\$2,575.20 \times 22 \text{ cabinets} = \$56,654.40$ per year

\$56,654.40 is the entire yearly cost to the Village should there be no issues or non-routine repairs needed to the system. If unforeseen circumstances occur and repairs need to be made to the street lights and their appurtenances (see definition of non-routine maintenance on pages 10-13 of the bid spec), the Village will be charged the unit prices as listed in the contract.

This contract runs from July 1, 2018 to June 30, 2019 with the option to renew for an additional year at June 30, 2019. Since there is on-going work in downtown, the 3 cabinets located in this area have been bid to start routine maintenance on January 1, 2019 making the routine cost for the first year of the contract only \$52,791.60. Should any issues come up with the street lights in the downtown area between now and January 1, 2019, they will be handled with Village staff or as part of the downtown contract.

H&H Electric Company currently holds the contract for our traffic signal maintenance. We have found their service to be satisfactory and have had no issues with the company. Money has been budgeted in the Motor Fuel Tax Fund to pay for this service. Therefore, it is our recommendation that the Committee of the Whole take action to move this matter forward to the Village Board for approval of H&H Electric Company to perform street light maintenance in the Village of Algonquin.


**Illinois Department
of Transportation**

SCHEDULE OF PRICES - BASE BID

County McHenry
Local Public Agency Village of Algonquin
Section 18-00000-00-GM
Route 2018 Lighting and Traffic Signal Maintenance

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

Schedule for Single Bid

(For complete information covering these items, see plans and specifications)

Bidder's Proposal for BASE BID	\$188,290.78
--------------------------------	--------------

Item No.	Items	Unit	Quantity	Unit Price	Total
A-1	SW Corner of S. Harrison & Route 62	Month	12	\$214.60	\$2,575.20
A-2	NE Corner of Route 31 & Route 62	Month	12	\$214.60	\$2,575.20
A-3	401 Washington St. In Town Park Parking Lot	Month	6 *	\$214.60	\$1,287.60
A-4	123 South Main Street	Month	6 *	\$214.60	\$1,287.60
A-5	211 Washington Street	Month	6 *	\$214.60	\$1,287.60
A-6	101 South Harrison (In Park)	Month	12	\$214.60	\$2,575.20
A-7	201 North Harrison (In Park)	Month	12	\$214.60	\$2,575.20
A-8	Edgewood Drive	Month	12	\$214.60	\$2,575.20
A-9	SW Corner of Huntington Dr. & Route 31	Month	12	\$214.60	\$2,575.20
A-10	NE Corner of County Line & Randall Road	Month	12	\$214.60	\$2,575.20
A-11	2360 Esplanada	Month	12	\$214.60	\$2,575.20
A-12	NW Corner of Beckey Lynn and Dead End	Month	12	\$214.60	\$2,575.20
A-13	Harnish 900' West of Randall on the North Side	Month	12	\$214.60	\$2,575.20
A-14	2641 Millbrook	Month	12	\$214.60	\$2,575.20
A-15	NE Corner of Meyer & Route 62	Month	12	\$214.60	\$2,575.20
A-16	401 Washington In Park Parking Lot	Month	12	\$214.60	\$2,575.20
A-17	2 South Main	Month	12	\$214.60	\$2,575.20
A-18	201 N. Harrison (In Park)	Month	12	\$214.60	\$2,575.20
A-19	801 Circle (In Park)	Month	12	\$214.60	\$2,575.20
A-20	SE Corner of Fairwayview & Wintergreen	Month	12	\$214.60	\$2,575.20
A-21	Kelliher Park on Square Barn Road	Month	12	\$214.60	\$2,575.20
A-22	110 Meyer Drive Public Works	Month	12	\$214.60	\$2,575.20
B-1	Composite Concrete Junction Box	Each	1	\$616.60	\$616.60
B-2	Photocell	Each	1	\$47.40	\$47.40
B-3	Photocell Control Wire, 3/C-#10	Foot	250	\$1.90	\$475.00
B-4	1 1/2" Unlt Duct, 4/C #8 XLP/USE-2, Directional Boring	Foot	1000	\$13.70	\$13,700.00
B-5	1 1/4" Unlt Duct, 3/C #8 XLP/USE-2, Directional Boring	Foot	1000	\$12.90	\$12,900.00

RETURN WITH BID

Bidder's Proposal for BASE BID						\$188,290.78
Item No.	Items	Unit	Quantity	Unit Price	Total	
B-6	2" Galvanized Steel Conduit, Directional Boring	Foot	1000	\$16.10	\$16,100.00	
B-7	2" Unlt Duol, 4/C #4 XLP/USE-2, Directional Boring	Foot	1000	\$15.30	\$15,300.00	
B-8	Remove Electrical Cable from Conduit, Disposal	Foot	1000	\$0.01	\$10.00	
B-9	Electrical Cable in Conduit, 1/C #2	Foot	1000	\$2.50	\$2,500.00	
B-10	Pole Wire, 1/C - #10, feet	Foot	100	\$1.30	\$130.00	
B-11	Lighting Cable Fuse Kit	Each	25	\$106.30	\$2,657.50	
B-12	Ground Rods	Each	10	\$53.70	\$537.00	
B-13	Light Pole, Aluminum, 30 Ft. or Greater MH, 8 to 15 Ft.MA	Each	10	\$1,938.70	\$19,387.00	
B-14	Luminaire, Sodium Vapor, Horizontal Mount, 400 Watt	Each	10	\$361.10	\$3,611.00	
B-15	Luminaire, Sodium Vapor, Horizontal Mount, 250 Watt	Each	10	\$359.30	\$3,593.00	
B-16	Luminaire, Sodium Vapor, Horizontal Mount, 150 Watt	Each	10	\$358.10	\$3,581.00	
B-17	Luminaire, Sodium Vapor, Horizontal Mount, 100 Watt	Each	10	\$356.30	\$3,563.00	
B-18	Luminaire, LED, Horizontal Mount	Each	10	\$455.60	\$4,556.00	
B-19	Relamp Luminaire, Sodium Vapor, 100 Watt	Each	50	\$35.90	\$1,795.00	
B-20	Relamp Luminaire, Sodium Vapor, 150 Watt	Each	50	\$35.90	\$1,795.00	
B-21	Relamp Luminaire, Sodium Vapor, 250 Watt	Each	50	\$35.90	\$1,795.00	
B-22	Relamp Luminaire, Sodium Vapor, 400 Watt	Each	50	\$35.90	\$1,795.00	
B-23	Removal of Luminaire, Salvage	Each	10	\$39.80	\$398.00	
B-24	Removal of Luminaire, Disposal	Each	10	\$39.80	\$398.00	
B-25	Temporary Sign Support	Each	100	\$0.01	\$1.00	
B-26	Traffic Control and Protection, Complete	L Sum	1	\$330.00	\$330.00	
B-27	Street Lighting Controller	Each	1	\$5,912.10	\$5,912.10	
B-28	PCC Sidewalk, 5", Removal and Replacement	Sq Ft	25	\$26.40	\$660.00	
B-29	Street Lighting Handhole	Each	1	\$1,329.00	\$1,329.00	
B-30	Non-Routine Work	Hour	8	\$143.40	\$1,147.20	
B-31	Non-Routine Work, Overtime Rate	Hour	4	\$215.10	\$860.40	
B-32	Aerial Truck	Hour	8	\$72.00	\$576.00	
B-33	Non-Routine Work, Trencher	Hour	8	\$0.01	\$0.08	
B-34	Non-Routine Work, Compressor	Hour	8	\$0.01	\$0.08	
B-35	Non-Routine Work, Backhoe	Hour	8	\$0.01	\$0.08	
B-36	Non-Routine Work, Concrete Saw	Hour	8	\$0.01	\$0.08	
B-37	Non-Routine Work, Service Truck	Hour	8	\$0.01	\$0.08	
B-38	Non-Routine Work, Dump Truck	Hour	8	\$0.01	\$0.08	
B-39	Light Pole Foundation, Concrete	Foot	10	\$135.60	\$1,356.00	
B-40	Street Lighting Controller Foundation, Install Only	Each	1	\$956.00	\$956.00	
B-41	Removal of Street Light Pole, Disposal	Each	1	\$315.50	\$315.50	
B-42	Removal of Street Light Pole, Salvage	Each	1	\$315.50	\$315.50	
B-43	Light Pole, Ornamental, Post Top Mounted	Each	1	\$4,380.70	\$4,380.70	
C-1	YEAR 1	Qtrs	4	\$1,529.70	\$6,118.80	
* Maintenance of these systems will begin on January 1, 2019. After completion of Main Street Streetscape Project.				Bidder's Proposal for BASE BID		\$188,290.78

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2018

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 4-1-16) (Revised 1-1-18)

SUPPLEMENTAL SPECIFICATIONS

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404 Micro-Surfacing and Slurry Sealing	3
405 Cape Seal	14
420 Portland Cement Concrete Pavement	24
442 Pavement Patching	26
502 Excavation for Structures	27
503 Concrete Structures	29
504 Precast Concrete Structures	32
542 Pipe Culverts	33
586 Sand Backfill for Vaulted Abutments	34
630 Steel Plate Beam Guardrail	36
631 Traffic Barrier Terminals	39
670 Engineer's Field Office and Laboratory	40
701 Work Zone Traffic Control and Protection	41
704 Temporary Concrete Barrier	42
781 Raised Reflective Pavement Markers	44
888 Pedestrian Push-Button	45
1003 Fine Aggregates	46
1004 Coarse Aggregates	47
1006 Metals	50
1020 Portland Cement Concrete	51
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1069 Pole and Tower	55
1077 Post and Foundation	56
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1101 General Equipment	58
1102 Hot-Mix Asphalt Equipment	59
1103 Portland Cement Concrete Equipment	61
1106 Work Zone Traffic Control Devices	63



Check Sheet For Recurring Special Provisions



The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Recurring Special Provisions

<u>Check Sheet #</u>		<u>Page No.</u>
1	<input type="checkbox"/> Additional State Requirements for Federal-Aid Construction Contracts	64
2	<input type="checkbox"/> Subletting of Contracts (Federal-Aid Contracts)	67
3	<input type="checkbox"/> EEO	68
4	<input type="checkbox"/> Specific EEO Responsibilities Non Federal-Aid Contracts	78
5	<input type="checkbox"/> Required Provisions - State Contracts	83
6	<input type="checkbox"/> Asbestos Bearing Pad Removal	89
7	<input type="checkbox"/> Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal	90
8	<input type="checkbox"/> Temporary Stream Crossings and In-Stream Work Pads	91
9	<input type="checkbox"/> Construction Layout Stakes Except for Bridges	92
10	<input type="checkbox"/> Construction Layout Stakes	95
11	<input type="checkbox"/> Use of Geotextile Fabric for Railroad Crossing	98
12	<input type="checkbox"/> Subsealing of Concrete Pavements	100
13	<input type="checkbox"/> Hot-Mix Asphalt Surface Correction	104
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15	<input type="checkbox"/> Patching with Hot-Mix Asphalt Overlay Removal	107
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The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

Local Roads And Streets Recurring Special Provisions

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BDE SPECIAL PROVISIONS
For the April 27 and June 15, 2018 Lettings

The following special provisions indicated by an "x" are applicable to this contract and will be included by the Project Development and Implementation Section of the BD&E. An * indicates a new or revised special provision for the letting.

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80099	1	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2014
80382	2	Adjusting Frames and Grates	April 1, 2017	
80274	3	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192	4	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	5	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80241	6	Bridge Demolition Debris	July 1, 2009	
50261	7	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	8	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	9	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	10	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80366	11	Butt Joints	July 1, 2016	
80386	12	Calcium Aluminate Cement for Class PP-5 Concrete Patching	Nov. 1, 2017	
80396	13	Class A and B Patching	Jan. 1, 2018	
80384	14	Compensable Delay Costs	June 2, 2017	
80198	15	Completion Date (via calendar days)	April 1, 2008	
80199	16	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	17	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	18	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80277	19	Concrete Mix Design – Department Provided	Jan. 1, 2012	April 1, 2016
80261	20	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	21	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
80029	22	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	July 2, 2016
80378	23	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
80388	24	Equipment Parking and Storage	Nov. 1, 2017	
80229	25	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80304	26	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2017
80246	27	Hot-Mix Asphalt – Density Testing of Longitudinal Joints	Jan. 1, 2010	April 1, 2016
80347	28	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	Jan. 1, 2018
80383	29	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	Nov. 1, 2017
80376	30	Hot-Mix Asphalt – Tack Coat	Nov. 1, 2016	
80392	31	Lights on Barricades	Jan. 1, 2018	
80336	32	Longitudinal Joint and Crack Patching	April 1, 2014	April 1, 2016
80393	33	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	
80045	34	Material Transfer Device	June 15, 1999	Aug. 1, 2014
* 80994	35	Metal Flared End Section for Pipe Culverts	Jan. 1, 2018	April 1, 2018
80165	36	Moisture Cured Urethane Paint System	Nov. 1, 2006	Jan. 1, 2010
80349	37	Pavement Marking Blackout Tape	Nov. 1, 2014	April 1, 2016
80371	38	Pavement Marking Removal	July 1, 2016	
80390	39	Payments to Subcontractors	Nov. 2, 2017	
80377	40	Portable Changeable Message Signs	Nov. 1, 2016	April 1, 2017
80389	41	Portland Cement Concrete	Nov. 1, 2017	
80359	42	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2017
80385	43	Portland Cement Concrete Sidewalk	Aug. 1, 2017	
80300	44	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
80328	45	Progress Payments	Nov. 2, 2013	
34261	46	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006

<u>File Name</u>	<u>#</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80157	47	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	48	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 1, 2018
80395	49	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
80340	50	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	51	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80391	52	Subcontractor Mobilization Payments	Nov. 2, 2017	
80317	53	Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	April 1, 2016
80298	54	Temporary Pavement Marking (NOTE: This special provision was previously named "Pavement Marking Tape Type IV".)	April 1, 2012	April 1, 2017
20338	55	Training Special Provisions	Oct. 15, 1975	
80318	56	Traversable Pipe Grate for Concrete End Sections (NOTE: This special provision was previously named "Traversable Pipe Grate".)	Jan. 1, 2013	Jan. 1, 2018
80288	57	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	58	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80071	59	Working Days	Jan. 1, 2002	

The following special provisions are in the 2018 Supplemental Specifications and Recurring Special Provisions.

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80368	Light Tower	Article 1069.08	July 1, 2016	
80369	Mast Arm Assembly and Pole	Article 1077.03(a)(1)	July 1, 2016	
80338	Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	Recurring CS #35	April 1, 2014	April 1, 2016
80379	Steel Plate Beam Guardrail	Articles 630.02, 630.05, 630.06, and 630.08	Jan. 1, 2017	
80381	Traffic Barrier Terminal, Type 1 Special	Article 631.04	Jan. 1, 2017	
80380	Tubular Markers	Articles 701.03, 701.15, 701.18, and 1106.02	Jan. 1, 2017	

The following special provisions require additional information from the designer. The additional information needs to be submitted as a separate document. The Project Development and Implementation section will then include the information in the applicable special provision. The Special Provisions are:

- Bridge Demolition Debris
- Building Removal - Case I
- Building Removal - Case II
- Building Removal - Case III
- Building Removal-Case IV
- Completion Date
- Completion Date Plus Working Days
- DBE Participation
- Material Transfer Device
- Railroad Protective Liability Insurance
- Training Special Provisions
- Working Days

VILLAGE OF ALONGQUIN

2018 LIGHTING AND TRAFFIC SIGNAL MAINTENANCE

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(D-1) PUBLIC CONVENIENCE AND SAFETY

LOCAL ROADS SPECIAL PROVISIONS
BDE SPECIAL PROVISIONS
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SPECIAL PROVISIONS

The "Standard Specifications for Road and Bridge Construction" adopted April 1, 2016, as amended by the Supplemental Specifications and Recurring Special Provisions, adopted January 1, 2017; the Bureau of Design and Environment (BDE) Special Provisions indicated on the respective Check Sheets herein, the latest edition of the "Manual on Uniform Traffic Control Devices", "Manual of Test Procedures", and the "Manual for Materials Inspection," adopted January 1, 2006, all issued by the State of Illinois Department of Transportation, hereinafter referred to as the "Standard Specifications", and the "Standard Specification for Water and Sewer Main Construction in Illinois", Seventh Edition, June 2014 are hereby incorporated by reference and shall apply to and govern the construction of the STREET LIGHTING AND MAINTENANCE PROGRAM, Section No. 17-00000-01-GM, in Algonquin, Cook County, Illinois.

The following SPECIAL PROVISIONS supplement the STANDARD SPECIFICATIONS shall apply to and govern the construction of STREET LIGHTING AND MAINTENANCE PROGRAM in Algonquin, McHenry County, Illinois. In case of conflict with any part or parts of said specifications, said SPECIAL PROVISIONS shall take precedence and shall govern.

LOCATION OF WORK

The project is located in various locations throughout the Village of Algonquin in the County of McHenry, Illinois.

DESCRIPTION OF WORK

The proposed work includes the maintenance of 22 controller cabinets to attain and maintain street lights and lighting systems, as well as non-routine repair work to carry out emergency repairs and for repair of the street lighting equipment/cabling within the Village for the locations stated in this contract in the Village of Algonquin, Illinois.

PENALTIES

The CONTRACTOR shall be charged liquidated damages of \$500 each working day that the construction sequence time frames are not met for the following work:

- Underground work (3 working days for Road Program Streets)
- Concrete work (10 working days per street)
- Installation of binder (3 working days after milling per street; 5 working days after milling if Class D Patching is performed)
- Installation of surface course (5 working days after binder installation per street)

JOB SITE DAILY CLEANUP

The CONTRACTOR shall maintain a clean work area at the end of each day. All materials not needed for the construction process shall be removed from the work areas. Failure to maintain a clean work area at the end of each day and to the satisfaction of the ENGINEER will result in a penalty of \$500.00 per incident. This also includes all work covered under the "Maintenance of Roadways" District 1 Special Provision.

CONSTRUCTION NOISE RESTRICTIONS

Add the following to Article 107.35 of the Standard Specifications:

All Work shall be performed between the hours of 7:00 AM and 5:00 PM, Monday through Friday, and between 9:00 AM and 5:00 PM on Saturday, except in the case of urgent necessity as determined by the Director of Engineering. No work shall be performed on Sundays.

PREVAILING WAGE RATES

When engaged in construction of a "public work," within the meaning of Illinois Prevailing Wage Act, 820 ILCS 130/01 et seq. ("the Act"), the Act requires Contractors and Subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly wages plus fringe benefits) in the county where the work is performed.

For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at: www.state.il.us/agency/idol/rates/rates.HTM. All Contractors and Subcontractors rendering services under a Contract for the construction of a public work must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

The term general prevailing hourly rate, when used in this requirement will mean the hourly cash wages plus fringe benefits for health and welfare, insurance, vacations and pensions paid generally, in the locality in which the work is being performed, to employees engaged in work of a similar character on public works.

As a condition of making payment to the Contractor, the Village may require the Contractor to submit an affidavit to the effect that not less than the prevailing hourly wage rate is being paid to laborers, mechanics and other workmen employed on this Contract in accordance with Illinois or federal law, as applicable.

LICENSE AND EXPERIENCE

Each Bidder shall possess state and local licenses as are required by law, and shall furnish satisfactory proof to Owner upon request that the licenses are in effect during the entire period of the Contract.

To be considered as eligible to submit a proposal, a Bidder shall have complied with all legal requirements to permit him/her to operate under applicable laws of the State of Illinois.

The Contractor bidding the project shall be actively engaged in Work of the nature of the project described and have adequate specialized workers and machines to do the Work.

FAILURE TO EXECUTE AGREEMENT AND FILE BOND AND INSURANCE

Failure of a successful Bidder to execute the Agreement and file required bonds and insurance within the required time shall be just cause for the annulment of the award. On failure of a successful Bidder to execute the Agreement and file the required bonds and insurance within the required time, he/she shall forfeit his/her Bid Security as agreed hereinbefore. Upon annulment of an award as aforesaid, Owner may then re-award the Contract.

SUBSTITUTE MATERIAL

Where in the Technical Specifications one or more certain equipment/materials, trade names or articles of certain manufacture are mentioned, it is done for the express purpose of establishing a basis of durability and efficiency and not for the purpose of limiting competition. Other names of equipment/material can be used if, in the opinion of the Engineer and the Owner, they are equal in durability and efficiency to those mentioned and of a design in harmony with the Work as outlined; and the Engineer and Owner give a written approval of a substitution. Adequacy of the proposed substituted equipment and/or materials shall be determined during the shop drawing review process. Any substituted materials and/or equipment ordered by the Contractor prior to the shop drawing review process shall be at the Contractor's own risk. Should a substitution of equipment and/or materials be desired, the Contractor shall be required to request the change in writing within ten (10) days from the award of the Contract.

GENERAL PROVISIONS

- A. The Scope of Work for the Street Lighting Maintenance Project consists of a multi-year Street Lighting Maintenance Contract on residential, collector and arterial streets within the Village of Algonquin, Illinois as follows:
1. Maintain 22 controller cabinets to attain and maintain street lights and lighting systems;
 2. Non-Routine Repair Work to carry out emergency repairs and for repair of the street lighting equipment/cabling within the Village not covered under Routine Street Lighting Maintenance, as directed by the Owner's Representative. Repairs to streetlights and controllers will be carried out under the terms of Non-Routine Work.
- B. This proposal shall include all labor, equipment, tools, material, and incidentals, unless otherwise provided for in the contract, to repair and maintain public street lights, public lighting systems, including controllers, on residential, collector and arterial streets within the Village of Algonquin at all times under the terms set forth in the specifications of this Contract and as directed by the Owner's Representative.
- The contractor will be responsible for providing the necessary workmen, materials, equipment, and their transportation used in executing the terms of this contract. In the case of emergency as determined by the Village, the contractor shall provide maintenance and repair service during all 24 hours of the day, including Saturdays, Sundays, and holidays.
- C. The Bidder shall note that the condition of existing residential, collector and arterial street lights, lighting poles, and associated equipment located in the Village is characterized as in functional condition.
1. Routine Street Lighting Maintenance Work will be carried out in accordance with the provisions and terms detailed in this section for Routine Street Lighting Maintenance to attain and maintain the Village's arterial street lighting in operating condition with outages of 1% or less on a monthly basis.
- D. Quantities of Street Light Controllers on All Residential, Collector and Arterial Streets for Routine Street Lighting System Maintenance are as noted in Attachment #1.
1. Repair and maintenance of underground electrical service cabling and overhead electrical service cabling of street lights to controllers and of controllers to Commonwealth Edison service points are not included in Routine Street Lighting Maintenance; repair and maintenance of

underground and overhead electrical service cabling will be carried out per the terms of this contract as Non-Routine Repair Work.

2. Routine Street Lighting Maintenance Work shall consist of the following, except as modified under individual items hereinafter.

- Patrol and inspect each installation and system once every month or more often if so directed by the Owner's Representative. The Contractor's personnel shall notify the Owner's Representative before the beginning of his patrol. The patrol person shall check in at the Public Works office located at 110 Meyer Drive the day his patrol is scheduled and the patrol person shall check out as soon as his patrol is complete.

All maintenance operations for all lighting shall be completed in one consecutive working day.

- Test each system as detailed under the specific items.
- Replace all drivers and LED Arrays that have failed. All replacement lamps shall be new and shall be of the same wattage and type as the equipment replaced, and of equal or better quality.
- Keep all of the various parts and components of the installations in prior alignment and adjustment at all times.
- Clean the various parts and components of the installations as detailed under the specific items.
- Take immediate corrective action to safeguard the public and the installations **AT ANY TIME, DAY OR NIGHT, WHEN ANY SYSTEM OR ANY PORTION THEREOF BECOMES INOPERATIVE, OR ANY UNIT OF THE SYSTEM HAS BEEN DAMAGED** from any cause whatsoever.
- Report to the Owner's Representative, by the fastest means of communication (a) any unauthorized work being performed by others affecting the system, (b) any other work in progress which may come to his attention and which may endanger any installation of the system, and (c) any emergency temporary repairs.
- Make emergency temporary repairs and permanent repairs to the installations. Unless specifically authorized by the Owner's Representative, permanent repairs shall be started not later than the first working day following emergency temporary repairs and shall be continued insofar as possible without interruption, until completion.
- Respond to all emergency call by the Owner's Representative, and all calls by the Owner's Representative to locate underground cables or any other components of the systems to prevent damage by any proposed construction. The Contractor is required to honor the locate request ONE TIME. For projects requiring maintenance of the installation be transferred to the construction contractor, the maintenance Contractor may not be required to locate the underground facilities for that location. The Contractor shall contact the Owner's Representative for a determination if a locate is

necessary.

- Keep incoming power service in proper condition at all times. The Contractor shall cooperate with the utility company in this matter.
- All interconnecting cable, conduit and handholes between various parts of the system shall be maintained by the Contractor.
- Repair or replace any part or parts of the systems damaged from any cause whatsoever, except extensive damage resulting from major disasters such as fires, floods, acts of public enemy or an Act of God* as defined in Article 108.08 of the Standard Specifications.

E. The Contractor shall be pre-qualified for Electrical Work with IDOT District 1.

DEFINITIONS OF TERMS

1. Village means the Village of Algonquin, including its Departments and all elected and appointed officials.
2. Owner's Representative means the Village Engineer/Superintendent of the Department of Public Works of the Village of Algonquin, or designated representative(s), and Village Dispatcher.
3. Bidder means any individual, firm or corporation submitting a proposal of the work according to these specifications, acting directly or through a duly authorized representative.
4. Contractor means the bidder awarded the contract for the Public Street Lighting Maintenance Work.
5. Residential, Collector, Arterial Street and Parking Lot Lighting means all types of electrically operated street lights, lamps, ballasts, glassware, standards, and all public lighting appurtenances in the public right-of-way or public property within the Village of Algonquin or its public properties owned by or under the maintenance jurisdiction of the Village, whether they be high pressure sodium, metal halide or LED luminaires individually connected to Commonwealth Edison power network or as part of a system of lights connected to a controller connected to the power network.
6. Routine Street Lighting Maintenance means assuming the responsibility to inspect and the completion of repair of the listed residential, collector and arterial street lighting, and performing all work necessary to keep them serviceable and in first-class working condition in conformance with the requirements and terms of this section in accordance with Repair Response Times.
 - a). The Contractor shall be responsible to make all repairs needed to repair residential, collector and arterial street lighting to bring it back into operation and to attain a level of operation in conformance with the requirements and terms of the Special Provisions for Repair Response Times. Work shall include assuming the responsibilities to repair and maintain the installations listed in Attachment #1 and to perform all work necessary to keep them serviceable and in first-class working condition in accordance with the

requirements of Repair Response Times and to attain and maintain less than a 1% outage incidence.

- b). Work shall include repairing, replacing, and maintaining streetlights as follows:
- cleaning of luminaire lens to allow light from the LED Array to get to the roadway surface,
 - repair of luminaires,
 - replacement of failed drivers,
 - replacement of failed luminaires,
 - repair/replacement of pole wire,
 - repair/replacement of fuse holders,
 - replacement of failed fuses,
 - replacement of failed photo cells,
 - replacement of erratic operating photo cells,
 - damage to luminaires/fuses/fuse kits/pole wiring due to lightning,
 - removal of graffiti from pole or lighting control cabinets,
 - Repair/replacement of all non functioning or damaged electrical and mechanical equipment inside of all lighting controllers.
- c). When several outages have been reported by the Village on any single circuit so as to render a significant area without lighting, as determined by the Owner's Representative, those outages will be repaired on a priority basis within the time limit requirements for Repair Response Times as listed herein.
- d). The Contractor shall keep light standards, brackets, and luminaires in alignment and bolted tightly to the light standard foundations. The Contractor shall level and adjust all luminaires in relation to the centerline of the street to obtain the appropriate distribution of light from the luminaire. All hand hole and access covers shall be tightened and/or replaced if damaged or missing.
- e). All damaged, defective or worn equipment that cannot be rebuilt or reused as determined by Owner's Representative shall be disposed of by the Contractor at his expense, unless directed by the Village to return such equipment to the Village.
- f). Response to emergency calls for emergency repairs **are not included** in Routine Street Lighting Maintenance and shall be carried out in accordance with the provisions for Non-Routine Repair Work.
- g). Repairs of equipment due to:
- accidents (traffic accident knockdown or damage, etc.) or

- major disasters such as fires, floods or
- acts of public enemy, or acts of God or
- vandalism or
- underground or overhead electrical service cable outages

as determined by the Owner's Representative, are not included in Routine Street Lighting Maintenance and shall be paid for as Non-Routine Repair Work.

- h). This work will be paid for at the contract unit price each for Street Lighting Controller or System per Month for "Routine Street Lighting Maintenance".
7. Routine Street Lighting Maintenance means assuming the responsibility to inspect and the completion of repair of the listed Street Lighting Controllers, performing all work necessary to keep them serviceable and in first-class working condition in conformance with the requirements and terms of this section in accordance with Repair Response Times.
- a). The Contractor shall be responsible to make all repairs needed to repair residential, collector and arterial street lighting systems (controllers) equipment to bring it back into operation. Work shall include assuming the responsibility and completing repair and maintenance of the listed installations of residential, collector, arterial street lighting system controllers and parking lot lighting, and the performance of all work necessary to keep them serviceable and in first-class working condition in accordance with the requirements of Repair Response Times and to attain and maintain less than a 1% outage incidence.
- b). Work shall include repairing and maintaining residential, collector, arterial street and parking lot lighting systems and controllers as follows:
- inspecting and repair of Street lighting controller cabinets at least once every month to ascertain that they are functioning properly and report this inspection to the Owner's Representative.
 - replacing failed/defective operating photo controls or time clocks for the controller operation,
 - repair/replacement of defective/failed main breaker, circuit breakers, control breakers, switches, relays, contactors, delay units, cabinet heaters, duplex receptacles, terminal blocks, thermostats, surge protectors, neutral and ground bus bars, cabinet lights, cabinet wiring, and other street lighting control equipment within a controller cabinet,
 - maintain proper time clocks and photoelectric relay controls in proper working order. Adjustments of time clocks for daylight savings time shall be incidental to Routine Street Lighting System Maintenance,
 - dress or replace all switch contacts located in controllers when necessary.
 - keep the interior of the control housing in a neat and workmanlike

condition.

- repair/replacement of cabinet locks, cabinet door hinges, and outside door information plates.
 - replacement of all filters.
- c). The Contractor shall keep street lighting system controllers bolted tightly to the controller foundations. The Contractor shall level and adjust controller cabinets and shall seal the bottom of the cabinet as needed and/or requested by the Owner's Representative to the foundation as needed to keep water and wind out of the cabinet.
- d). Response to emergency calls for emergency repairs **are not included in** Routine Street Lighting Maintenance and shall be carried out in accordance with the provisions for Non-Routine Repair Work.
- e). All damaged, defective or worn equipment that cannot be rebuilt or reused as determined by Owner's Representative shall be disposed of by the Contractor at his expense, unless directed by the Village to return such equipment to the Village.
- f). Repairs of equipment due to:
- accidents (traffic accident knockdown or damage, etc.) or
 - major disasters such as fires, floods or
 - acts of public enemy, or acts of God or
 - vandalism or
 - damage from animals (rodents) or
 - underground or overhead electrical service cable outages
- as determined by the Engineer, are not included in Routine Street Lighting Maintenance and shall be paid for as Non-Routine Repair Work.
- g). This work will be paid for at the contract unit price for **Street Lighting Controller per Month for "Routine Street Lighting Maintenance, for each Street Lighting or Parking Lot Lighting Controller"**.
- h). In addition to the requirements listed above under Routine Maintenance, the following shall be part of this item:
- Report in writing to the Owner's Representative, lamp and circuit outages and damaged, broken or defective components within two working days after each monthly inspection.
 - Replace all burned out lamps, faulty ballasts and broken glassware not later than seven (7) working days following discovery or notification. Determine the cause of the malfunction unless it was caused by a burned

out lamp, without energizing the light from the normal source.

- Repair or replace all cable or integral cable-in-duct combination damaged from any cause whatsoever, as follows:
 - Where such damaged cable is in duct, steel or plastic conduit, the faulty wiring shall be removed and replaced with an approved new cable and the duct or conduit shall be repaired.
 - Where damaged cable is buried in earth, the faulty section shall be removed and replaced using approved cable and splicing methods.
 - When temporary cable is installed, all splices shall be as good as splices for permanent repairs.
- Maintain in stock at all times sufficient assorted new Light Standards, Transformer Bases, Couplings, Mast Arms, Luminaires, Lamps, Breakers, Fuses, Switches, Timers, Relays, Splicing, Materials, Cable, Cable-In-Duct, Conduits and Fittings, and other parts in order that all malfunctions from any cause whatsoever, can be temporarily or permanently corrected, and all defective or damaged components, except Light Standard Foundations, can be replaced.

8. Non-Routine Repair Work means any work on any street or parking lot lighting or street and parking lot lighting system not specified in this Contract as Routine Maintenance (Street Lighting, Parking Lot Lighting or Street Lighting System), and as specifically authorized by the Owner's Representative to be performed by the Contractor, his employees or agents. However, emergency temporary repairs shall not require specific prior authorization by the Owner's Representative.

a). The Village may deem it necessary to make changes in existing equipment, or authorize the repair or replacement of damaged or deteriorated equipment as Non-Routine Repair Work.

b). The scope of Non-Routine Repair Work is as follows:

- 1). Emergency Work is for emergency repair involving street lights, street or parking lot light controllers, or other lighting equipment as determined by the Owner's Representative to include response within the time limits of the provisions and terms for Repair Response Times on a 24-hour, any day or holiday basis:
 - street light pole knocked down.
 - luminaire, arm, or pole loose or posing a hazard.
 - damage to underground/overhead street light wiring or service.
 - street lighting controller knocked down.

The Contractor is to clear the street and remove any hazards to the public.

Emergency work will be paid at the Contract unit prices each for the individual items to be repaired or replaced. The cost of performing NON-ROUTINE REPAIR WORK shall be included in the Bid Proposal which shall be payment in full for all labor, materials and equipment to be repaired and/or replaced to the satisfaction of the Owner's Representative. Response to emergency calls for emergency repairs **not included** in Routine Street Lighting Maintenance.

- 2). Non-Routine Work is comprised of repairs of equipment due to:
 - accidents (traffic accident knockdown or damage, etc.) or
 - major disasters such as fires, floods or
 - acts of public enemy, or acts of God or
 - vandalism or
 - damage from animals (rodents) to wiring/cabling or
 - underground or overhead electrical service cable outages or
 - repair and/or replacement of damaged conduit and damaged, deteriorated, or grounded wiring extending beyond the foundation of poles, post or cabinets, or
 - installation, or supervision of the installation by others, of additional or auxiliary equipment to any of the Village street lighting equipment or systems when requested by the Owner's Representative.
 - provide consultation to the Village regarding design and maintenance items not covered in the Contract.
- 3). Work to locate any or all underground components of a street lighting installation is included in Routine Street or Parking Lot Lighting System Maintenance. This locator work is to be carried out by the Contractor's forces.
- 4). Non-Routine Repair Work, as directed by the Owner's Representative, beyond Routine Lighting Maintenance of street lights and street lighting systems, will be carried out in accordance with the requirements, terms and provisions detailed in these special provisions for each individual pay item listed in Form C, including electrician rates, overtime rates, service trucks, aerial trucks, equipment rates, and work items. Unless specifically required in the Routine Maintenance Section, the Owner's Representative shall authorize the Contractor to make the necessary repairs or changes, or authorize the repairs by others under the supervision of the Contractor, in accordance with these Specifications as Non-Routine Repair Work. Any Non-Routine Repair Work shall be

done under the direction of the Owner's Representative and shall conform to the Owner's Representative requirements.

- 5). Non-Routine Repair Work (except emergency, temporary repairs) shall be authorized by the Owner's Representative in writing. Emergency repairs are authorized by the Village of Algonquin telephone/fax call for repair to the Contractor.
- 6). The Contractor shall furnish to the Owner's Representative itemized statements of the cost of all force account work, which shall include a true copy of the payroll and the original receipted bills for the materials used and any freight charges paid on same. Where materials used are not specifically purchased for use as Non-Routine Repair Work but are taken from the Contractor's stock, the Contractor may submit an affidavit of the quality, price and any freight on such materials in lieu of certified copies of original bill and invoices. This affidavit must be approved by the Owner's Representative.
- 7). The Village reserves the right to furnish any materials or parts for Non-Routine Repair Work, in which case no materials charge for items so furnished shall be made by the Contractor. As part of the Non-Routine Repair Work pay items of this Contract are the furnishing of controller cabinets, aluminum poles, arms, and metal foundations to the Village to be stocked by the Village and taken out of Village stock for repair/replacement of knocked down street or parking lot lighting poles or controllers.
- 8). Also under this item, items as listed in the Schedule of Prices, light poles damaged by traffic shall be repaired by the Contractor. The labor under this item shall be paid for at the price bid for the related pay items in the Schedule of Prices or as Extra Work when authorized by the Owner's Representative.
 - Bid prices shall reflect the inclusion of the removal and disposal of damaged parts, the removal of debris, the furnishing of miscellaneous material and the labor necessary to make a complete installation.
 - Bid prices shall reflect the inclusion of any labor or material not specifically provided for in the bid prices but necessary to make a complete replacement installation.
 - Damage by traffic to items not specifically provided for in the bid prices shall be repaired or replaced as part of routine maintenance.
 - Where existing poles are damaged or defective, they shall be replaced with aluminum or concrete poles of equal materials along with frangible poles as approved by the Owner's Representative in accordance with Specifications relating to Light Pole Knockdowns

as described below. If adapter plates or other appurtenances are necessary, these items shall be at the expense of the Contractor.

- At high knockdown incident area as determined by the Owner's Representative, light pole knockdowns may be relocated as directed by the Owner's Representative.
- The Contractor shall furnish and install replacement parts for all of the damaged items.
- The Contractor shall also furnish and install the following items which may not have been part of the original installation: fuse holder, foundation reinforcing, foundation, adapter plates, #10 wires, and hardware necessary to replace or relocate the pole knockdowns. The materials and workmanship shall be as specified herein. Poles shall be relocated as directed by the Owner's Representative.

This work will be paid for at the contract unit prices per Non-Routine Repair Work per work item for "Non-Routine Repair Work", per work item".

9. Emergency Repairs (Temporary) shall be such repairs to damaged or inoperative equipment as may be required to safeguard against injury or damage to public life and property, and reduce to a minimum any inconvenience to traffic. Such repairs may entail but not limited to the removal of damaged equipment; erection and maintenance of signs, and barricades; and safely securing exposed electrical cable and connections as necessary to protect the public and guide or regulate traffic. All Emergency Repairs shall be carried out as Non-Routine Repair Work and shall be paid at the contract unit prices for Non-Routine Repair Work.
10. Repair Response Time is the time from the instance of notification (by fax, by telephone call, by letter, etc. from the Village to the instant of time that the identified work (Routine Maintenance, Emergency Repair, Non-Routine Repair Work) is completed to bring the street light/lighting system into operation.

The Contractor shall carry out repair of the outages within the specified time limits detailed below so that:

- outages reported by the Village in the bi-weekly report are repaired no later than the time of the next bi-weekly inspection report by the Village, and
- the number of outages in an inspection report does not exceed 1% of the total number of maintained streetlights.

The Contractor shall be responsible to:

- maintain in stock at all times sufficient materials and equipment to effect temporary and permanent repairs

- make all repairs needed to bring residential, collector and arterial street lights and street lighting systems back into operation within specified time limits as outlined in the Repair Time Table as follows:

REPAIR TIME TABLE
(non-cumulative)

Item	Response Time	Routine Maintenance	Non-Routine Repair
ROUTINE STREET AND PARKING LOT LIGHTING MAINTENANCE:			
	monthly	monthly	

NON-ROUTINE REPAIR WORK:

	1 week	NA	4 weeks
EMERGENCY REPAIRS/KNOCKDOWN/FAILURE:			
Lighting Standard	1 hr		2 weeks
Luminaire	2 days		1 week
Service out	1 day		2 weeks
Cabling/Conduit	2 days		4 weeks
Controller Cabinet	1 hr		6 weeks

LEGEND: 1hr = 1 hour, 2hrs = 2 hours,
4hrs = 4 hours, 24hrs = 24 hours,
NWD = Next Working Day, 1wk = 1 week, 2wks = 2 weeks,
ENG = As Acceptable to Owner Representative.
NA = Not Applicable

12. Option - Quarterly night inspection consists of carrying out a visual inspection of residential, collector and arterial street lighting for which Routine Street Lighting Maintenance is provided during the nighttime hours of operation of street lighting on a quarterly basis.
 - a). The Contractor will provide the necessary personnel and vehicles to complete a quarterly night inspection during the last two weeks of the third month of each quarter.
 - b). The Contractor will identify street lighting outages by pole identification location by street name by location and forward the outage list to the Contractor's repair crew for response per the Repair Response Times and to the Village.

This work, if the Village chooses to exercise this option, will be paid for at the contract unit prices per Quarterly Night Inspection per quarter for "Quarterly Night Inspection", per quarter.

GENERAL

1. This proposal shall include routine maintenance service to repair and maintain each and every component of the public street lighting system of the Village of Algonquin in first class working order and operating condition at all times.
2. The Village shall be responsible for identifying and reporting street lighting and parking lot lighting system outages. The Village shall carry out an inspection and patrol of the residential, collector and arterial street lighting and street lighting systems on a bi-weekly basis. The Village shall provide a listing of street lighting outages by location to the Contractor on the first and third Tuesday of each month by 7:00 a.m.
2. The Village shall provide the Contractor with 2 sets of Village maps for their use in locating outages. Each lighting outage will be identified using postal street addresses.

GENERAL SPECIFICATIONS

The following specifications shall apply to the work covered by this Contract as fully written herein, except those items, which by their nature have no application. All work and equipment performed and installed under this contract shall be governed and shall comply with the following specifications, manuals, and codes. The most current editions and all subsequent revisions and alterations for the specifications are required.

- 1) The STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, adopted by the Illinois Department of Transportation, latest edition, referred to as the Standard Specifications in this contract.
- 2) The MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, latest edition, and the ILLINOIS SUPPLEMENT TO THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES adopted by the Illinois Department of Transportation, latest edition;
- 3) The STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, latest edition;
- 4) The SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, and DISTRICT ONE RECURRING SPECIAL PROVISIONS FOR ROADWAY LIGHTING, latest edition;
- 5) The NATIONAL ELECTRICAL CODE;
- 6) The NATIONAL ELECTRICAL SAFETY CODE;
- 7) The SAFETY RULES FOR THE INSTALLATION AND MAINTENANCE OF ELECTRIC SUPPLY AND COMMUNICATION LINES.

SPECIAL PROVISIONS FOR STREET LIGHTING

In addition to the GENERAL SPECIFICATIONS detailed above for this contract, the following terms and specifications shall apply to the work covered by this Contract as fully written herein.

- 1) SPECIAL PROVISIONS FOR STREET LIGHTING CONSTRUCTION;
- 2) SPECIAL PROVISIONS FOR STREET LIGHTING ALUMINUM POLES;
- 3) SPECIAL PROVISIONS FOR STREET LIGHTING LUMINAIRES,
- 4) SPECIAL PROVISION FOR STREET LIGHTING CONTROLLERS; and
- 5) SPECIAL PROVISION FOR STREET LIGHTING PARKWAY RESTORATION AND TRAFFIC CONTROL.

PERIOD OF THE CONTRACT

- A. Start Date. Assumption of the street lighting in the Village for routine and non-routine maintenance shall commence on July 1, 2018 at 12:00 a.m., and not before. The Contract shall terminate on June 30, 2019 at 11:59 p.m. if the Village does not elect to proceed with the option to extend the Contract for the second year. The Contractor may furnish required insurance and other required documentation between the date of the contract award and July 1, 2018.
- B. This contract shall be for a period of one (1) year, with quantities for Routine Street Lighting Maintenance and Non-Routine Repair Work for one (1) year plus an option for a second year.

BID PROPOSAL

1. Bids shall be presented in duplicate on the forms in the **BID SECTION** of the Contract Proposal:
 - a). **Form A - Routine Street Lighting Maintenance**
Form A1
a monthly rate x number of controllers x 12 months
Total for Year 1 and the 2nd Year Option
 - b). **Form B - Non-Routine Repair Work**
Form B1
Work item x quantity x unit cost = cost work item
Total Cost for Non-Routine Work for Year 1 and the 2nd Year Option
 - c). **Form C - Option Quarterly night inspection**
a quarterly rate x 4 quarters of the year for all lighting units
Total Cost for Option Quarterly Night Inspection
2. Bids shall be evaluated for recommendation of award on the following basis:
 - a). TOTAL COST for ALL WORK ITEMS
consisting of the sum of:
Routine Street Lighting Maintenance; and

Non-Routine Repair Work with hourly rates for material, equipment and labor.

- b). Unit Prices
 - c). Total Cost for Option - Quarterly Night Inspection
3. **Failure to submit costs for Forms A through C shall deem a bid to be incomplete.** The bid shall include unit costs and a total cost.
4. Unit costs and a total cost for option for the quarterly night inspection of residential, collector and arterial street lights are required.

PROSECUTION OF WORK

PRE-CONTRACT MEETING

1. Upon execution of the Contract with the successful quotation proposal, the Village will schedule a meeting with the Contractor. On or before this meeting, the Contractor and the Owner's Representative shall inspect the systems to determine existing conditions.
2. The Contractor shall submit his progress schedule on or before this meeting.
3. In attendance shall be the Contractor's representative, i.e., Contract Manager or Maintenance Superintendent or Foreman, for this project. Also in attendance shall be the Owner's Representative, representatives of other Village departments, and Utility Company representatives (if required), if utility work or adjustments are required. Also, any other person(s) as may be deemed necessary.
4. The purpose of the Pre-Contract meeting is to discuss and resolve any issues regarding the work prior to the Contractor starting work. This includes the interpretation of the SPECIAL PROVISIONS FOR STREET LIGHTING. Specification information regarding source of materials, who is responsible for testing of materials, what, if any, work will be sublet, responsibility for maintaining traffic or detours, and any other issues relating to the work are to be discussed.
5. A roster will be prepared which will list the names, addresses and organizations, and telephone numbers of all parties concerned. Emergency contact persons, and 24 hour a day telephone numbers shall also be listed.

CONTRACT SCHEDULE

1. The Contractor shall, within five (5) calendar days after the date of the execution of the Contract or not less than 1 week (7 calendar days) before starting the work, whichever is the earlier date, prepare and submit to the Owner's Representative, for approval, a practical and feasible schedule showing how the Contractor proposes to maintain and/or repair the Village's residential, collector and arterial street lighting in accordance with the terms and provisions of Article 108.02 Progress Schedule of the Standard Specifications. The approval by the Owner's Representative of the schedule

or method shall not be construed as relieving the Contractor of any responsibility therefore.

2. The Contractor shall commence the work herein contracted to be done at the time and day of the start of the maintenance contract.
3. Subject to the applicable provisions of the law, this Contract shall be in full force and in effect as a contract form and after the date when a fully executed and approved counterpart thereof is delivered to the Contractor, which delivery shall be accompanied by a letter from the Village establishing this date as the beginning of the contract period.

PROSECUTION OF WORK

The Contractor shall prosecute the work in accordance with the terms and provisions of Article 108.03 Prosecution of Work of the Standard Specifications.

1. The Contractor shall at all times maintain a force of qualified workers sufficient to perform the work required and described herein in accordance with Article 108.06 Labor, Methods, and Equipment of the Standard Specifications. This force shall be able to respond promptly to all emergency calls and make the temporary and permanent repairs necessary to safeguard the public.
2. The Contractor shall designate a representative of his organization to be available at all times for consultation with the Owner's Representative whenever necessary. The Contractor shall furnish the name, address and telephone number of his representative to the Owner's Representative.
3. The Contractor shall maintain a live dispatch office which shall be manned and accessible by telephone 24 hours a day.
4. The Contractor shall at all times take whatever actions are necessary to maintain the safety of his crews and the general public when performing work for the Village of Algonquin.
5. Any maintenance operations found unsatisfactory, any equipment found not properly maintained, or any repair found necessary by the Owner's Representative shall be reported to the Contractor and confirmed in writing. Upon receipt of such report, the contractor shall within 2 working days make the necessary corrections and perform any work necessary to bring the system up to the prescribed standard per the requirements of the Repair Response Times. The Contractor shall submit a report to the Owner's Representative indicating that it has been completed in a satisfactory manner.
6. The Contractor shall erect barricades, flashing arrow boards, signs, cones, flags, and lights as may be required by Section 107.09, 107.14 and the applicable parts of Section 700 of the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, to properly protect his workmen and the motoring public when repairs are being performed on or near the roadway. Number, type, color, size and placement of all traffic control devices shall conform to Part VI of the ILLINOIS MANUAL OF UNIFORM

TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. An Arrow Board is required for a lane closure (through or turning) for any work on a roadway with 2 or more traffic lanes in the same direction.

7. The Contractor shall:
 - a) maintain in stock at all times sufficient materials, equipment and vehicles to effect temporary and permanent repairs, and
 - b). carry out and complete repairs of street lighting equipment and street lighting systems,
 - c). carry out repairs of street lights accepted for maintenance by the Village within specified time limits for Routine Street Lighting Maintenance in accordance with the terms and provisions of the Repair Response Times.
8. The Contractor shall promptly report to the Owner's Representative any unauthorized construction or repair work that he discovers being done by others upon Village owned equipment being maintained by the Contractor. The Contractor shall also report any construction or repair work in progress, which may endanger the equipment of the system.
9. During the progress of the work, the Contractor shall assume total risk and liability, and will be responsible for any and all damages to the work, persons, or property caused by, or in any way resulting from doing the work in accordance with Article 107.30 of the Standard Specifications and CONTRACTOR'S RESPONSIBILITY and ELECTRICAL SYSTEM DAMAGE RESPONSE provisions of the specifications.
10. The Contractor shall comply with the terms and provisions of Article 107.09 Public Convenience and Safety of the Standard Specifications.
11. Restoration of parkways will be in accordance with ARTICLE 868 of the STANDARD SPECIFICATIONS.
12. The Contractor shall provide on a monthly basis an invoice for maintenance performed under the terms of the agreement, which are not considered Extra Work. Documentation to be submitted with the invoice will include but not be limited to patrol lists showing the dates and times of inspections of the street lighting controllers, and radio call sheets identifying communication between the patrol unit and the contractor's headquarters in regards to maintenance activities for the Village.
13. The Contractor shall provide a brief description of each service call stating the problem, which was reported, what was encountered, and the action taken. If any costs were incurred for extra work an invoice should be included. The service call report shall be submitted within 20 days of action taken.
14. The Contractor shall submit a Condition Report to the Owner's Representative every 6 months of the Contract; this report is due by the 15th Day of the 6th

month and the 15th Day of the 12th month of each year of the contract. This report shall contain the following information:

- a) Any major or repeated breakdowns or mechanical failures, anywhere within the system,
 - b) Any major repairs and the reasons for those repairs,
 - c) Any recommendations for major repairs to equipment that the Contractor deems necessary for proper performance,
 - d) The inventory of Village Material held by the Contractor.
15. The Contractor shall promptly notify the Owner's Representative of the disablement of any piece of equipment on any system due to an accident or other cause, when making it necessary to discontinue operation of all or part of the installation.
 16. All component parts of each system shall be maintained at all times to perform the functions for which they were designed, unless otherwise authorized by the Owner's Representative.
 17. Whenever defective, non-operative or damaged equipment is reported to the Contractor by the Owner's Representative by telephone, a sequentially numbered report shall be initiated. Copies of said reports shall be provided to the Owner's Representative bi-weekly. The copy of the report shall show in addition to the report of the defect, the Work Order Number which is initiated to correct the reported defect. Additional information shall be shown on the copy of this report as required by the Owner's Representative.
 18. Whenever a copy of a report is required as provided above, copies of the Work Orders issued to correct the defect shall be provided to the Owner's Representative bi-weekly after completion of the work. The copy of the Work Order shall show the defects found, and the action taken to correct the defects, and in addition, shall the Report Number associated therewith. The form of the copy of the Work Order shall be as required by the Owner's Representative.
 19. Repair or replace any part or parts of the system damaged from any cause whatsoever, except as provided for under Non-Routine Repair Work.
 20. Repair or replace damaged luminaires when the damage is confined to the luminaire or parts thereof and other parts of the light standard have not been damaged to the extent of requiring replacement.
 21. Inspection of roadway lighting outages must be done during daylight hours. The Owner's Representative may authorize the night time inspections in special cases. This work shall be paid for separately.
 22. All damaged or defective equipment in a lighting cabinet shall be replaced with new (not rebuilt) equipment unless authorized by the Owner's Representative.

MATERIAL, LABOR AND EQUIPMENT TO BE FURNISHED BY THE CONTRACTOR

All workmanship, equipment, materials, miscellaneous items and component parts incorporated in the work covered by this Contract are to be of the best grade of the respective kinds for the purpose. Where equipment, materials, miscellaneous items or component parts are referred to in the Specifications as "equal to" any particular standard, the Village will decide the question of equality. The Contractor shall furnish to the Owner's Representative, for his approval, the name of the manufacturer of machinery, mechanical or other equipment which he contemplates incorporating into the work, and when requested by the Owner's Representative, the capacities and other pertinent information, including samples. Machinery, equipment materials, miscellaneous items and components installed or used without such approval shall be at the risk of subsequent rejection.

- A. The Contractor shall furnish all transportation, equipment and material for maintenance at his own expense.
- B. The Contractor shall furnish all necessary testing instruments for making tests on the systems or equipment at his own expense.
- C. The Contractor shall furnish all labor necessary in the performance of this Contract at his own expense and shall have a sufficient number of qualified employees who are experienced in the various technical and mechanical fields associated with the specialized equipment at all times to maintain the respective system adequately.

For any work involving removal, repair, or installation of lighting and mounting arms on or adjacent to power transmission poles, the crew leader for the work by the Contractor shall possess a current and valid Class A lineman's card certifying qualification to work on and adjacent to overhead electrical services and transmission lines.

- D. The Contractor shall have established and continue to maintain adequate storage and shop repair facilities to perform this Contract, including a reasonable stock of spare parts and equipment. Such facilities shall be located within a 25-mile radius of the intersection of Algonquin Road (IL Rte. 62) and IL Rte. 31 in the Village of Algonquin. The address of the repair facilities shall be provided with this bid.
- E. The Contractor shall maintain a reasonable sized fleet of emergency vehicles. The Contractor's supervisory personnel (including crew leaders) shall be equipped with and carry cellular telephones. A listing of cellular telephone numbers shall be prepared and furnished to the Owner's Representative two (2) weeks prior to the beginning of the Contract; any changes during the Contract will be forwarded to the Owner's Representative. All calls must be tracked by Phone Logs of each conversation. A copy of the Phone Logs shall be provided to the owner at any time upon request.
- F. The Contractor shall comply with the terms and provisions of Article 107.04 Permits and Licenses of the Standard Specifications. The Crew Leader of any work crew carrying out work on electrical transmission poles of

Commonwealth Edison shall hold and have in his possession a Class A Lineman's Card.

MATERIAL AND EQUIPMENT FURNISHED BY THE VILLAGE

The Village may supply the Contractor during any time of the contract period with its own usable parts, materials and equipment from its own stock or the salvage material procured from the removal of existing systems.

- A. All parts, materials and equipment furnished by the Village to the Contractor shall be transported by the Contractor at his sole expense to his warehouse, shops, or sites where such materials and equipment are to be stored, repaired or used. Upon receipt of such parts, materials, and equipment, the Contractor shall acknowledge receipt thereof to the Owner's Representative.
- B. The Contractor shall maintain a perpetual inventory of parts and equipment, furnished by the Village. If any of the parts or equipment are used either in the maintenance of the installations and systems or in any knockdown, the Contractor shall report it to the Owner's Representative. The Contractor shall furnish the Owner's Representative with a copy of this inventory every 6 months. The inventory shall include the type and location of any equipment installed as either temporary or permanent replacements for equipment being repaired.
- C. The Owner's Representative shall have the privilege of visiting storage facilities and shops at any time for the purpose of examining the inventory of Village owned parts and equipment. The Contractor shall comply with any instructions given by the Owner's Representative relating to the care, storage and marking of Village owned parts and equipment for identification purposes.
- D. At the termination of the Contract, the complete stock shall be delivered by the Contractor to the Village at locations designated by the Owner's Representative with all items replaced or accounted for. The Contractor shall be solely responsible for any replacements required due to loss, theft, burglary, damage or destruction of any and all such parts, material and equipment.
- E. Nothing herein shall be construed as obligating the Village to furnish any parts.

EXTENSION OF TIME

The Contractor shall not be entitled to any claims for damages, for any hindrance or delay from any cause whatsoever in the progress of the work, or any portion thereof. The Village shall have the right, at its discretion, to extend the date for the completion of the work beyond the dates stated in the Contract in accordance with the terms and provisions of Article 108.08 of the Standard Specifications, but no extension of time will be made for ordinary delays or

accidents, and the occurrence of such will not relieve the Contractor from the necessity of maintaining the required rate of progress.

REIMBURSEMENT FROM THIRD PARTY FOR REPAIRS OR DAMAGE

The Contractor shall comply with the terms and provisions of Article 107.26 Indemnification of the Standard Specifications.

- A. The Village reserves the right to make recovery from third party or parties for damages to any installation.
- B. The relationship of the third party to the Village shall not relieve the Contractor of any obligations specified elsewhere in the Contract.
- C. For each accident resulting in damage to electrical facilities, the Contractor shall furnish an individual statement itemizing the costs of labor, equipment and materials, upon completion of repairs, as stipulated in Non-Routine Repair Work.
- D. The repair of damage to equipment, installations or systems caused by Village personnel in the performance of their assigned duties shall be paid for by the Village as Non-Routine Repair Work.

BILLINGS

- A. Invoices shall be submitted in duplicate by the tenth day of the month for the preceding month. The invoices shall be classified in terms of:
 - Routine Street Lighting Maintenance,
 - Non-Routine Repair Work, where appropriate, by location, quantities, unit prices and total prices.
- B. No invoice will be paid until copies of work orders for that corresponding month are submitted. The work order shall indicate the name and affiliation of caller, time and date of dispatch, location of trouble, action taken, name of patrolman and time and date the location was cleared.
- C. Only installations accepted by the Contractor for Maintenance on or before the 15th of any month shall be included in the billing for that month. Installations deducted from Routine Street Lighting Maintenance and Routine Street Lighting System Maintenance after the 15th of any month are billed for that month, but are deleted from the next month(s).
- D. During the duration of this Contract, the Village may construct or accept for maintenance additional street lights, parking lot lighting or street lighting systems for maintenance at the time of acceptance the Village will notify the Contractor of this additional installation. The Village along with the Contractor will schedule a walk through of the new system. After completion of this walk through, the Contractor shall submit to the Village a proposal for the additional maintenance responsibility. After

acceptance of this proposal, the Contractor shall assume maintenance of the installation.

PAYMENT FOR COMPLETED WORK

The following is added to Article 109.02 Scope of Payment, Article 109.04 Payment for Extra Work, and Article 109.07 Partial Payment and Retainage of the Standard Specifications:

- A. Payments shall be subject to retainage by the Village as follows:
1. There shall be deducted from the amount so determined for the first fifty percent (50%) of the completed routine maintenance or non-routine repair work (Form A and Form B) a sum of ten percent (10%) to be retained until after the completion of the entire work to the satisfaction of the Owner's Representative.
 2. After fifty percent (50%) or more of the routine maintenance or non-routine repair work (Form A and Form B) is completed, the Owner's Representative may, at his discretion, certify the remaining partial payments without retention, provided that satisfactory progress is being made, and provided that the amount retained is not less than five percent (5%) of the total adjusted contract price.
 3. The Owner's Representative reserves the right to withhold retainage if the Contractor is not making satisfactory progress in repairing and maintaining outages on the bi-weekly reporting basis.
 3. In the event that the Contractor fails to repair and maintain street lighting outages to 1% or less over three (3) consecutive bi-weekly reporting periods, the Owner's Representative shall deduct 10% of the payment of completed maintenance work as well as deduct for liquidated damages until the completion of repair of outages in the three (3) or more consecutive bi-weekly reporting periods to the satisfaction of the Owner's Representative.
 5. Upon completion of repair work to bring street lighting outages into operation to a level of less than 1% outages, the Owner's Representative may, at his discretion, certify payment of any retainage in the next monthly invoice payment. Liquidated damages deducted for failing to meet the performance requirements of this Contract will not be paid to the Contractor in subsequent payments.

INSURANCE

Responsibility for Damage Claims -- The Contractor shall comply with the provisions of Section 107.27 of the Standard Specifications for Road and Bridge Construction, except that the word "Department" shall mean the "Village". In complying to the requirements of Article 107.27 and at the time of executing his contract, the Contractor shall furnish Certificates of

Insurance with the Village in accordance with Item (37) of the General Terms and Conditions and Instructions to Bidders.

NEW INSTALLATIONS, INCREASED QUANTITIES, OR DECREASED QUANTITIES

The following is added to Article 109.03 Increased or Decreased Quantities of the Standard Specifications.

- A. Whenever the quantity of any item of work given in the Proposal shall be increased or decreased because of new equipment added to the system or equipment eliminated in the systems, payment will be made on the basis of the actual work performed, at the unit price of the approved Bid.
- B. The Owner's Representative shall notify the Contractor in writing when new street lights or controllers are to be placed in operation in any of the systems, or when equipment has been inactivated or eliminated, thus increasing or decreasing the quantities for Routine Street Lighting Maintenance listed in the Schedule of Prices.
- C. In case of installation of new equipment to be added to this contract, the Contractor shall make such an inspection as is necessary at the time activation with the designated representative of the Owner's Representative to ascertain that the equipment is in acceptable working order. Henceforth, from the time that the equipment is placed in operation, the Contractor shall assume responsibility for the maintenance and repair of such equipment, unless otherwise directed by the Owner's Representative.

DAMAGED PARTS, MATERIALS AND EQUIPMENT

- A. Surplus or damaged parts, materials, or other equipment which are salvageable shall be stored in the Contractor's warehouse and yard and labeled as property of the Village until disposed of or repaired under the direction of the Owner's Representative.
- B. All parts of the system may be repaired by the Contractor after approval from the Owner's Representative and reused in the system.
- C. Any irreparably damaged poles, arms, luminaires, or street lighting equipment; broken concrete; or other such refuse shall be disposed of by the Contractor. All debris shall be removed from Village property and highway rights-of-way within 24 hours from the time of deposit, exclusive of Saturdays, Sundays and Holidays.

CHANGES OR MODIFICATIONS TO THE SYSTEM

The Village reserves the right to advertise for competitive bids to effect changes or modifications to residential, collector and arterial street lights and to residential, collector and arterial street lighting systems. In accordance with the Village's approved Capital Improvement Program, the Village will undertake projects to construct residential, collector and arterial street lighting and street lighting systems on existing and on new streets, as well as construct new underground service cabling in place of problematic direct burial aluminum

service cable and to construct new street lighting systems with controllers in place of direct service connection.

LIQUIDATION OF DAMAGES

Should the Contractor fail to complete the work within the Repair Response Times Schedule, the Contractor shall be liable for liquidated damages for each calendar day of over-run in strict adherence to Article 108.09 of the Standard Specifications.

The Owner's Representative may, at his discretion, take one or more of the following actions:

- 1). Withhold payment of any remittance until all work has been performed to the satisfaction of the Owner's Representative.
- 2). Deduct a proportionate amount of money from any remittance for work not performed.
- 3). Assess liquidated damages should the Contractor fail to complete the work within the REPAIR RESPONSE TIMES, the Contractor shall be liable to the Village in the following amounts per day for each calendar day work that the work remains uncompleted, not as a penalty, but as liquidated damages for delay in the completion of the work. Liquidated damages may be deducted by the Village from moneys, which are or may become due to the Contractor under the Contract.

Routine Maintenance

Street light out	\$5.00/day
Controller out	\$75.00/day

SUSPENSION OF WORK

Suspension of work shall be in accordance with the terms and conditions of Article 108.07 of the Standard Specifications.

DEFAULT AND TERMINATION OF CONTRACT

- A. Default on Contract shall be in accordance with the terms and conditions of Article 108.10 of the Standard Specifications.
- B. Termination of the Contractor's Responsibilities shall be in accordance with the terms and conditions of Article 108.11 of the Standard Specifications.
- C. Termination for Public Convenience shall be in accordance with the terms and conditions of Article 108.12 of the Standard Specifications.

UTILITY LOCATION

The Contractor shall be held responsible for any damage to existing utility lines and appurtenances in accordance with the terms and provisions of Article 107.31 Contractor's Responsibility for Utility Property and Services resulting from the operation of Contractor equipment or personnel.

It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. The toll-free telephone number for J.U.L.I.E is 1-800-892-0123. Prior to construction, the Contractor shall notify the utility companies of his operational plans and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the utility companies for the removal or adjustment where removal or adjustment is required.

Village of Algonquin:
Department of Public Works
Mr. Robert Mitchard, Public Works Director

SUBCONTRACTOR LISTING

The following list of subcontractors and class of work performed by each is submitted. Subcontractors are defined as persons, firms or corporations who supply labor and/or materials for work under this Contract.

Subcontractor

Class of Work

BIDDER'S EXPERIENCE/QUALIFICATIONS

To demonstrate the Bidder's experience/qualifications, the Bidder shall list herein at least three (3) similar projects equal or greater in capacity which the Bidder has successfully completed within the past six (6) years.

<u>Municipality</u>	<u>Description</u>	<u>Phone No.</u>	<u>Completed</u>
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ELECTRICAL SYSTEM DAMAGE RESPONSE

The following is added to Article 801.12 of the Standard Specifications. The Contractor shall respond to damage calls for all system components being maintained by the Contractor including, but not limited to pole knockdowns, circuit outages, more than 3 luminaires on a circuit, 3 successive luminaires, and controller outages within one hour after notification and provide immediate corrective action. The Contractor shall also repair other outages within 5 days.

The Contractor shall maintain in stock a sufficient amount of material and equipment to provide temporary and permanent repairs. Any damage to the lighting system for any cause whatsoever shall be repaired or replaced in kind with equipment in the same conditions before the incident or with new equipment provided by the Contractor at no additional cost to the contract, all as approved by the Owner's Representative. If the Contractor fails to respond so as to produce immediate corrective action within the specified time frames, or fails to complete repairs in a timely manner the Owner's Representative may direct other forces to perform the work. Charges incurred shall be direct billed to the Contractor. The Village shall retain all rights to pursue claims against third parties in all situations regardless of who is maintaining the lighting system. The Contractor shall also provide the Village with all accident and damage reports from any incidents.

CONTRACTOR'S RESPONSIBILITY

The following is added to Article 801.12 of the Standard Specifications. Existing lighting systems which may be affected by the work shall include, as a minimum, all existing lighting units within the Village limits and these units may be temporarily isolated by means of in-line waterproof fuse holders as approved by the Owner's Representative. When a controller is to be replaced or modified under the contract work, or where otherwise indicated, the controller and all systems connected to it shall be included in the Contractor's responsibility for proper operation of lighting systems.

1 1/2" UNIT DUCT, 4/C - #6 USE-2/XLP AND 1/C #6 USE-2/XLP GROUND WIRE, DIRECTIONAL BORING

Work shall include furnishing and installing 1 1/2" Unit Duct, 4/C - #6 USE-2/XLP and 1/C #6 USE-2/XLP Ground Wire, copper conductor, in conduit by directional boring method and connecting the conduit to other 1 1/4" Unit Duct conduit and cable, to street light standards, hand holes, controllers, and splice boxes.

- A. This work shall be performed in accordance with Sections 810 and 816 of the Standard Specifications with the provisions as follows:
- Directional boring shall be used in areas where the right-of-way should not be disturbed and as noted on the plans.
 - The directional boring unit shall be equipped with a guide head with multiple transmitter frequencies to ensure tracking accuracy.
 - Existing electrical services exists in the vicinity of proposed boring; the directional boring technique used, therefore, shall be capable of detecting

voltage.

- The boring machine should be capable of being idled from the operator's station in order to reduce engine noise when possible.
- Drilling of existing hand holes to connect the conduit shall be considered incidental to this pay item, as are any costs to connect the conduit.
- The boring machine utilized at any given point in the installation of the conduit shall be the smallest possible for the job. The Contractor shall provide the Engineer with proposed locations for the boring machine and approximate size of the boring machine to be used before work commences. Depending on the specific location, the Engineer may call for a specific placement of the boring machine to minimize interference with pedestrian and vehicular traffic. Village alleys, parkways, and parking lanes are available for placement of the boring machine. If placement precludes the safe passage of pedestrians, the sidewalk shall be closed per IDOT Standard 701801. The engineer shall give final determination on any boring machine set-up as to whether the proximity is safe and appropriate for pedestrian passage.

- B. Short runs of conduit requiring installation by trenching shall be measured and paid for as conduit installed by directional boring method.

Any trenching for the placement of conduit by directional boring method for the purposes of making the connection of conduit to street lighting pole foundation, to hand hole, controller foundation, etc. shall be incidental to installation of conduit by directional boring method. SPLICING OF LIGHTING CABLES shall be incidental to the installation of conduit by directional boring method. This work will be paid for at the contract unit price per **LINEAL FOOT** measured in straight lines between changes in direction and to the centers of equipment, boxes, access points, street lighting pole foundations with 6 feet of cable allowance for each connection to a street lighting pole, 6 feet for connection at each hand hole, 10 feet for connection to each controller, 6 feet for each secondary pedestal, 6 feet for each splice box, and 10 feet for each transformer/switchbox for "**1 1/2" UNIT DUCT, 4/C - #6 USE-2/XLP AND 1/C #6 USE-2/XLP GROUND WIRE, DIRECTIONAL BORING**".

1 1/4" UNIT DUCT, 3/C - #6 USE-2/XLP, DIRECTIONAL BORING

Work shall include furnishing and installing 1 1/4" Unit Duct, 3/C - #6 USE-2/XLP, copper conductor, in conduit by directional boring method and connecting the conduit to other 1 1/4" Unit Duct conduit and cable, to street light standards, hand holes, controllers, and splice boxes.

- A. This work shall be performed in accordance with Sections 810 and 816 of the Standard Specifications with the provisions as follows:
- Directional boring shall be used in areas where the right-of-way should not be disturbed and as noted on the plans.
 - The directional boring unit shall be equipped with a guide head with multiple

transmitter frequencies to ensure tracking accuracy.

- Existing electrical services exists in the vicinity of proposed boring; the directional boring technique used, therefore, shall be capable of detecting voltage.
- The boring machine should be capable of being idled from the operator's station in order to reduce engine noise when possible.
- Drilling of existing hand holes to connect the conduit shall be considered incidental to this pay item, as are any costs to connect the conduit.
- The boring machine utilized at any given point in the installation of the conduit shall be the smallest possible for the job. The Contractor shall provide the Engineer with proposed locations for the boring machine and approximate size of the boring machine to be used before work commences. Depending on the specific location, the Engineer may call for a specific placement of the boring machine to minimize interference with pedestrian and vehicular traffic. Village alleys, parkways, and parking lanes are available for placement of the boring machine. If placement precludes the safe passage of pedestrians, sidewalk shall be closed per IDOT Standard 701801. The engineer shall give final determination on any boring machine set-up as to whether the proximity is safe and appropriate for pedestrian passage.

Short runs of conduit requiring installation by trenching shall be measured and paid for as conduit installed by directional boring method.

Any trenching for the placement of conduit by directional boring method for the purposes of making the connection of conduit to street lighting pole foundation, to hand hole, controller foundation, etc. shall be incidental to installation of conduit by directional boring method. SPLICING OF LIGHTING CABLES shall be incidental to the installation of conduit by directional boring method. This work will be paid for at the contract unit price per **LINEAL FOOT** measured in straight lines between changes in direction and to the centers of equipment, boxes, access points, street lighting pole foundations with 6 feet of cable allowance for each connection to a street lighting pole, 6 feet for connection at each hand hole, 10 feet for connection to each controller, 6 feet for each secondary pedestal, 6 feet for each splice box, and 10 feet for each transformer/switchbox for "**1 1/4" UNIT DUCT, 3/C - #6 USE-2/XLP, DIRECTIONAL BORING**".

1 1/4" or 2" UNIT DUCT, W/O CABLE, DIRECTIONAL BORING

Work shall include furnishing and installing 1 1/4" or 2" Unit Duct, w/o cable, conduit by directional boring method and connecting the conduit to other 1 1/4" or 2" Unit Duct conduit and cable, to street light standards, hand holes, controllers, and splice boxes.

This work shall be performed in accordance with Sections 810 and 816 of the Standard Specifications with the provisions as follows:

- Directional boring shall be used in areas where the right-of-way should not be disturbed and as noted on the plans.
- The directional boring unit shall be equipped with a guide head with multiple

transmitter frequencies to ensure tracking accuracy.

- Existing electrical services exists in the vicinity of proposed boring; the directional boring technique used, therefore, shall be capable of detecting voltage.
- The boring machine should be capable of being idled from the operator's station in order to reduce engine noise when possible.
- Drilling of existing hand holes to connect the conduit shall be considered incidental to this pay item, as are any costs to connect the conduit.
- The boring machine utilized at any given point in the installation of the conduit shall be the smallest possible for the job. The Contractor shall provide the Engineer with proposed locations for the boring machine and approximate size of the boring machine to be used before work commences. Depending on the specific location, the Engineer may call for a specific placement of the boring machine to minimize interference with pedestrian and vehicular traffic. Village alleys, parkways, and parking lanes are available for placement of the boring machine. If placement precludes the safe passage of pedestrians, the sidewalk shall be closed per IDOT Standard 701801. The engineer shall give final determination on any boring machine set-up as to whether the proximity is safe and appropriate for pedestrian passage.

Short runs of conduit requiring installation by trenching shall be measured and paid for as conduit installed by directional boring method.

Any trenching for the placement of conduit by directional boring method for the purposes of making the connection of conduit to street lighting pole foundation, to hand hole, controller foundation, etc. shall be incidental to installation of conduit by directional boring method. SPLICING OF LIGHTING CABLES shall be incidental to the installation of conduit by directional boring method. This work will be paid for at the contract unit price per **LINEAL FOOT** measured in straight lines between changes in direction and to the centers of equipment, boxes, access points, street lighting pole for **"1 1/4" or 2" UNIT DUCT, W/O CABLE, DIRECTIONAL BORING"**.

2", 3", or 4" GALVANIZED STEEL CONDUIT, DIRECTIONAL BORE TECHNIQUE:

This work shall be performed in accordance with Section 810 of the Standard Specifications with the following provisions:

- Directional boring shall be used in areas where the right-of-way should not be disturbed.
- The directional boring unit shall be equipped with a guide head with multiple transmitter frequencies to ensure tracking accuracy.
- An existing street lighting system exists in the vicinity of proposed boring; the directional boring technique used, therefore, shall be capable of detecting voltage.
- The boring machine should be capable of being idled from the operator's

station in order to reduce engine noise when possible.

- Drilling of existing hand holes to connect the conduit shall be considered incidental to this pay item, as are any costs to connect the conduit.
- The boring machine utilized at any given point in the installation of the conduit shall be the smallest possible for the job. The Contractor shall provide the Engineer with proposed locations for the boring machine and approximate size of the boring machine to be used before work commences. Depending on the specific location, the Engineer may call for a specific placement of the boring machine to minimize interference with pedestrian and vehicular traffic. Village alleys, parkways, and parking lanes are available for placement of the boring machine. If placement precludes the safe passage of pedestrians, the sidewalk shall be closed per IDOT Standard 801. The Owner's Representative shall give final determination on any boring machine set-up as to whether the proximity is safe and appropriate for pedestrian passage.

This work shall be paid for at the contract unit price per **LINEAL FOOT** as **2", 3" or 4" GALVANIZED STEEL CONDUIT, DIRECTIONAL BORING** which price included all labor, material, and equipment necessary.

TRENCH AND BACKFILL FOR ELECTRICAL WORK

This item shall consist of constructing a trench for the accommodation of conduit and backfilling it in accordance with Article 810 of the Standard Specifications except as revised by these special provisions.

This work includes all excavation, furnishing and placing all backfill material (CA-6 under all paved surfaces), disposal of surplus excavation, to original condition and all labor, materials, equipment, tools, and incidentals necessary to complete the work as herein specified.

The trench shall not be less than 30 inches (2.5 feet) deep with cable installation at a minimum of 30 inches in depth. Any auguring necessary for the purpose of placing conduit or cable under sidewalks, driveways or trees shall be considered incidental to this pay item.

This work will be paid for at the contract unit price per **LINEAL FOOT** for "**TRENCH AND BACKFILL FOR ELECTRICAL WORK**".

RED WARNING TAPE OVER STREET LIGHT CABLE

This work shall consist of placing 4-inch wide red warning tape over the street light duct at all locations where new trenched conduit is placed by the Contractor. The warning tape shall be placed 1 foot (12") below grade in accordance with IDOT Standard Specifications for Road and Bridge Construction, Section 810.

This work shall be considered incidental to "**TRENCH AND BACKFILL FOR ELECTRICAL WORK**".

CONDUIT IN TRENCH, 1 1/2" or 2" PVC or UNIT DUCT

Work shall include furnishing and installing 1 1/2" or 2" PVC or Unit Duct conduit in trench and connecting the conduit to the street light standards and to controller or to service point in accordance with Article 810 of the Standard Specifications.

This work will be paid for at the contract unit price per **LINEAL FOOT** for "**CONDUIT IN TRENCH, 1 1/2" or 2" PVC OR UNIT DUCT**".

REMOVAL ELECTRIC CABLE FROM CONDUIT, DISPOSAL

This work consists of disconnecting electrical cables in existing street lights and removal of existing electrical cables from 1", 1 1/4", 1 1/2" and 2" PVC conduits and disposal by the Contractor in accordance with the Article 873 of the Standard Specifications except as revised by these special provisions.

This work will be paid for at the contract unit price per **Lineal Foot** per conductor for "**REMOVAL OF ELECTRIC CABLE FROM CONDUIT, DISPOSAL**".

ELECTRICAL CABLE IN CONDUIT, 600 VOLT

Work shall include furnishing and installing street light conductor cable into conduit and connecting the cable to the street light standard, to other conductor cables, and to service point.

The material supplied shall be USE-2/XLP, 600-volt cable (colored insulated jacket of black, white, red, and green) of the specified number of conductors and cable size per Section 817 of the Standard Specifications.

SPLICING OF LIGHTING CABLES shall be incidental to the installation of electrical cable in conduit. This work will be paid for at the contract unit price per **LINEAL FOOT** measured in straight lines between changes in direction and to the centers of equipment, boxes, access points, street lighting pole foundations with 6 feet of cable allowance for each connection to a street lighting pole, 6 feet for connection at each hand hole, 10 feet for connection to each controller, 6 feet for each secondary pedestal, 6 feet for each splice box, and 10 feet for each transformer/switchbox for "**ELECTRICAL CABLE IN CONDUIT, 600 VOLT**", at the specified cable size and number of conductors.

SPLICING OF LIGHTING CABLES

The following is added to Sections 817 and 1066 of the Standard Specifications. Splices above grade, such as in poles and junction boxes, shall have a waterproof sealant and a heat-shrinkable plastic cap. The cap shall be of a size suitable for the splice and shall have a factory-applied sealant within. Additional seal of the splice shall be assured by the application of sealant tape or the use of a sealant insert prior to the installation of the cap. Either method shall be assured compatible with the cap sealant. Tape sealant shall be applied in not less than one half-lapped layer for a length of at least 6.35 mm (1/4 inch) longer than the cap length and the tape shall also be wrapped into the crotch of the splice. Insert

sealant shall be placed between the wires of the splice and shall be positioned to line up flush or extend slightly past the open base of the cap.

POLE WIRE, 1/C -#10 XLP/USE-2

This item shall consist of furnishing, installing, and connecting 1/C No. 10 AWG 600 volt insulated copper conductor, USE-2/XLP, stranded in conformance with ASTM B-8 from the luminaire terminal blocks to the pole hand hole per Sections 817 and 1066.06 for Roadway Lighting pole wire between the underground distribution system and the luminaire in a moisture-proof manner. Connection of pole wire to the terminals in the street lighting luminaire is incidental to the installation of the pole wire.

Pole wire shall be insulated with cross-linked polyethylene, (XLP) insulation jackets of black (or red) and white colored insulation. The wire is to run inside the pole and mast arm.

- A. For aluminum poles, two (2) 1/C - #10 pole wire conductors in black and white colors will be used.
- B. For concrete poles, three (3) 1/C - #10 pole wire conductors in black, white, and green color will be used. The green conductor will be connected to the ground lug of the luminaire and to the ground lug/ground cable in the base of the pole.

SPLICING OF LIGHTING CABLES shall be incidental to the installation of electrical cable in conduit. The pole wire will be measured for payment in feet. Measurements will only include the mounting height plus the length of the mast arm or span as indicated on the plans and/or in the specifications. This work will be paid for at the contract unit price per **FOOT** for "**POLE WIRE, 1/C - #10 XLP/USE-2**"

REMOVAL OF POLE WIRE IN POLES AND MAST ARMS, DISPOSAL

This work shall consist of disconnecting and removal of pole wire in existing street light poles and disposal by the Contractor in accordance with Article 841 of the Standard Specifications except as revised by these special provisions.

REMOVAL OF POLE WIRE IN POLES AND MAST ARMS, DISPOSAL shall be incidental to the installation of Pole Wire, 1/C #10.

LIGHTING CABLE FUSE KITS

Furnishing and installation of In-line fuse holder(s) and fuse(s) on all leads shall be in accordance with Article 1065.01 of the standard specifications and as follows:

- A. Fuse holders of the in-line quick disconnect breakaway type shall be used on all light pole installations in the base of each lighting standard. The fuse holder shall have a minimum rating of 30 amps. and be sized for 13/32" x 1 1/2" fuses. Fuse holder shall be Edison HEB-AW-RLC-A 30A 600V for load/line and HET-AW-RLC-A for neutral or equal as approved by Engineer.
- B. Wires shall be carefully stripped only as far as needed for connection to the device. Over-stripping shall be avoided. An oxide inhibiting lubricant shall be

applied to the wire for minimum connection resistance before the terminals are crimped-on.

- C. Crimping shall be performed in accordance with the fuse holder manufacturer's recommendations.
- D. The exposed metal connecting portion of the assembly shall be taped with two half-lapped wraps of electrical tape and then covered by the specified insulating boot.
- E. The fuse holder shall be installed such that the fuse side is connected to the pole wire (load side) and the receptacle side of the holder connected to the line side.
- F. In-line fuse holder(s) shall be provided on all neutral conductors with a solid slug in place of the fuse in the base of each lighting standard.
- G. Fuses for fuse holders on line/load cable to pole wire connection shall be Type MEQ or MEM equal 12 ampere rating.

This work consists of a furnishing and installing:

- a quick disconnect breakaway fuse holder and fuse for the power cable to pole wire connection and
- a quick disconnect breakaway fuse holder and solid slug for the neutral conductor connection.

This work will be paid for at the contract unit price per **EACH** for "**LIGHTING CABLE FUSE KIT**"

HANDHOLE, STREET LIGHTING

This work shall be performed in accordance with Section 814 of the Standard Specifications with the following provisions:

- A. The hand hole shall be poured in place concrete with inside dimensions of 21 -1/2 inches (549 mm) minimum. Frames and lid openings shall match this dimension. Hinged lids shall not be used. The legend "STREET LIGHTING" shall be cast in the lid.
- B. All conduits shall enter the hand hole at depth of at least 30 inches (760 mm).
- C. Cable hooks are required, one per side of hand hole. All cable hooks are to be hot-dipped galvanized in accordance with AASHTO Specification M111.

This work will be paid for at the contract unit price per **EACH** for "**HANDHOLE, STREET LIGHTING**".

REMOVAL OF EXISTING HANDHOLE, DISPOSAL

This work consists of demolishing, removal, and disposal by the Contractor of a concrete with case frame and lid hand hole. This work shall be performed in accordance with Section 814 of the Standard Specifications with the following provisions.

This work will be paid for at the contract unit price per **EACH** for "**REMOVAL OF EXISTING HANDHOLE, DISPOSAL**".

COMPOSITE CONCRETE JUNCTION BOX

Work shall include furnishing and installing composite concrete junction box in accordance with the provisions of 1088.04 of the Standard Specifications and connecting conduits into the junction box. The size shall be a minimum of 11" x 18" PC Style gasketed box with open base and 4 bolt cover by Quixote Compolsolite unless otherwise specified in the plans and approved by engineer. The cover shall bear a legend of "STREET LIGHTING".

This work will be paid for at the contract unit price per **EACH** for "**CONCRETE COMPOSITE CONCRETE JUNCTION BOX**".

REPLACE PHOTO-CELL WITH SHORTING CAP

Work shall include removal of existing photocell and furnishing and installing shorting cap. The photocells removed shall be salvaged to the Village and transported to a location as determined by the Engineer. This work is being carried out to convert existing individual luminaire photocell controls to controller cabinet control.

This work will be paid for at the contract unit price per **EACH** for "**REPLACE PHOTOCCELL WITH SHORTING CAP**".

PHOTOCCELL

This work will consist of furnishing and installing a photoelectric control, dual voltage 120/240, locking type (Twist lock) on a luminaire.

PHOTO-CELL: Photo-electric control, Dual Volt, locking type (Twist lock) must meet or exceed the following requirements:

1. ANSI C136.10-1988.
2. Line voltage Operating Range of 105 to 300 VAC at 60 Hz
3. Load Rating of 1000 watts tungsten and 1800 VA ballast
4. Failure mode (per ANSI) shall be to "on" mode
5. Photo sensor shall be Cadmium Sulfide shall be sealed to prevent moisture and contamination damage. This is to be accomplished by a conformal coating, epoxy encapsulation, or a glass to metal hermetic seal.
6. Turn "on" mode calibrated at 1.6+ or - 0.3 foot candles at 120 VAC with turn

"off" maximum ratio to turn "on" of 1.5: 1.

7. Time delay: Control shall have an instantaneous "on" response to allow for easy testing. Operating temperature shall have a minimal effect on time delay duration.
8. Surge protection shall be in the form of a Metal Oxide Varistor (MOV) wired line to neutral. MOV shall be a minimum of 160 joules. Secondary surge protection across the electronic circuit is required.
9. Calibration: Each unit shall be calibrated in production using a photometer whose accuracy is traceable to the NIST. A quality control inspection shall be performed after calibration and final assembly.
10. Contact "Chatter" on opening of contacts (TURN OFF of photoelectric control) shall not exceed 6 milliseconds.
11. Housing strength: The cover of the photoelectric control shall be of an impact and UV resistant material. Impact resistance of greater than 1.0 ft-lbs over the intended operating temperature range of the device is required.
12. Drop Test: The photoelectric control must be capable of withstanding a drop of 3 feet to a concrete floor without causing damage to the housing and without changing the electrical operation.
13. Housing Size: The diameter of the photoelectric control skirt shall be a minimum of 3 inches.
14. Plug blades shall be brass.
15. Markings: The following information shall be marked upon the exterior of the photoelectric control upon the base: month and year of manufacture, individual serial numbers, complete model description, operating voltage range, load rating, and provisions for marking installation and removal dates.
16. The photoelectric control shall detect cycling HPS lamps, open lamps or ballasts and activate a LED indicator lamp in combination with removing power from the lamp.
17. Warranty: The warranty for the photoelectric control shall be a minimum of 4 years.

Photoelectric controls (photo cells) shall be DTL DD120-1.5-STMB unless otherwise approved by Engineer.

This work will be paid for at the contract unit price per **EACH** for "**PHOTOCELL**"

GROUND ROD

This item shall consist of inspecting current grounding equipment and conditions for existing street light poles with the intended result of a serviceable ground rod connected by a #6 copper ground cable from the exterior ground rod into the pole to the pole ground lug and ground wire to the luminaire. This work may involve furnishing, installing, and connecting ground rods for the grounding of individual electrical service non-metallic street lighting poles/foundations and for supplementing the equipment grounding system via connection at poles or other equipment throughout the street lighting system in accordance with the terms and provisions of Article 801.20 and 1085.04 of the Standard Specifications. All materials and work shall be in accordance with Article 250 of the NEC.

This work shall consist of the following:

- A. Determine the presence of a serviceable exterior ground rod. If none, furnish and install a 5/8" x 10 feet ground rod adjacent to a street lighting pole,
- B. Determine the presence of a serviceable connection of the ground rod to existing lighting system green 1/C #6 ground green colored covered cable (if any) in accordance with the provisions of Article 1085.25 of the Standard Specifications. If none, furnish and install a 1/C #6 XLP/USE-2 green cable to connect the ground rod to the internal pole grounding strap accessible via the hand hole and to the 1/C #10 AWG green pole wire from the luminaire.

The ground rod, the 1/C #6 XLP/USE-2 cable, and the SPLICING OF ELECTRICAL CABLES shall be incidental to the installation of GROUND ROD. This work will be paid for at the contract unit price per **EACH** for **"GROUND ROD"**

PAINTING

Painting of lighting controllers or light standards, shall be done in accordance with Article 851 of the Standard Specifications, with the following modifications and except as modified under the individual items hereinafter.

1. Cleaning the work shall consist of removing all rust and scaling paint.
2. All bare spots shall be spot painted with Duro Brand "Extend" rust treatment.
3. All bare spots shall then be spot painted with a rust preventative primer.
4. All surfaces shall be given two coats of approved paint, color to be determined by the Owner's Representative.
5. The Contractor shall stencil the date of painting on the controller cabinet if it is painted, and on the controller foundation if the controller cabinet is unpainted.

This Work shall be paid for at the Contract unit price each for **"Paint Existing Lighting Controller"** or **"Paint Existing Light Standard"**, as specified above.

LIGHTING UNIT

The pole mounting height, mast arm length, lamp, luminaire type and wattage shall be equal to the original specifications or equipment, unless otherwise directed by the Owner's Representative.

Any lighting unit mounted on an existing bridge structure shall be as herein described except the handhole shall be on the street side of the pole. The mounting height shall be as indicated by the Owner's Representative. Any mounting brackets, plates or bolts shall be included.

The lighting units shall be furnished with aluminum poles and/or mast arms if so originally equipped as described under Aluminum Pole with Mast Arm.

The foundation shall be as described under Pole Foundation.

The luminaires and lamps shall be identical to existing installations, i.e. mercury vapor, metal halide, high pressure sodium vapor, etc.

For the 400 watt luminaires, the light distribution shall be Type III, medium, semi-cutoff. The fuse shall be 6 amperes. For other wattage luminaires, the Contractor shall submit photometric data for the luminaire selected, using a clear lamp, showing each Type II, III and IV pattern available and the Owner's Representative will select the most advantageous light distribution. The fuse shall be of amperage designated by the Owner's Representative.

For LED luminaires, the lighting unit shall match the existing luminaire manufacturer's latest specification on lumen output, distribution, voltage and drive current.

All materials, work and tests necessary to replace or relocate a pole knockdown, including cable-in-duct, splices, trench and backfill, and restoration of damages to the original condition, shall be as described in Specifications below and as approved by the Owner's Representative.

The wire from the pole handhole to the luminaire shall be No. 10 AWG as described under Electric Cable 600 Volt. The fuse shall be 600 volt, current limiting, high interrupting capacity, ceramic tube fuse.

CONSTRUCTION METHODS

The foundations, if necessary, shall be allowed to cure to the maximum compressive strength before the light standards are erected. The light standards shall be set plumb on the foundations without the use of shims, grout, or other leveling devices. The mast arm shall be set at right angles to the centerline of the pavement. The leveling area of the luminaire shall be set in a plane parallel to the roadway taking into consideration the up grade or down grade and the superelevation of the roadway. Each luminaire shall be individually leveled after

erection, and this leveling shall be witnessed by the Owner's Representative. The No. 10 wire shall be continuous from the luminaire to the pole handhole.

ALUMINUM POLE WITH MAST ARM

The aluminum pole with mast arm(s) consists of a pole, mast arm(s), pole base, bolt covers, pole cap, handhole with cover and such nuts, bolts, washers and incidentals necessary to complete the assembly.

The aluminum poles shall be manufactured from aluminum alloy that conforms to current ASTM Specification B221, 6063-T6 and shall be spun drawn to a smooth circular, tubular, seamless, tapered design to provide the original mounting height. The wall thickness of the poles shall be as shown on the Drawings.

A handhole shall be provided in each pole base for splicing purposes. The handholes shall be located on the side of the pole away from the direction of traffic. The handhole cover and bolt covers shall be fastened by hex head nylon machine screws. Each aluminum pole shall be provided with a lug on the pole handhole frame for grounding purposes. The pole base shall be a permanent mold casting of aluminum that conforms to current ASTM Specification B108, SG70A or B26, SG70A-T6, aluminum alloy. All welding shall be performed by the inert gas shielded arc method and all welds shall be free from cracks and pores. The bottom of the base shall be coated with bituminous paint before the pole is installed (field applied). The base shall also have bolt covers manufactured from aluminum, conforming to current ASTM Specification B108, S5A-F, or B26, SG70A. All exposed surfaces of the aluminum poles shall be of a smooth even texture, free from marks or imperfections. During shipment and storage, the poles shall be carefully blocked and wrapped with a tough non-staining paper to preserve the finish.

The mast arm shall be manufactured from aluminum alloy drawn seamless tube conforming to the current ASTM Specification B235, 6063-T6. The mast arm shall be of the truss type design with elliptical section members and shall have a rise above the top of the pole, as shown on the Drawings. Six foot mast arm shall be single member arms of elliptical section as shown on the plans.

Exterior surfaces of the mast arms shall be free of all protuberances, dents, cracks or other imperfections. Raceway openings shall be free from burns and rough edges that may be injurious to the wires, and shall be fitted with a rubber grommet.

LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, MAST ARM MOUNTED

This Specification pertains to high pressure sodium vapor luminaires designed for mast arm mounting, with lamp and built-in ballast.

General:

The luminaire shall provide even illumination, be optically sealed, mechanically strong and easy to maintain. The ballast components and socket shall be mounted in the rear of the luminaire. The reflector, mounting adjustments, wiring terminals and ballast components shall be readily accessible. When closed for operation, the optical assembly shall be sealed against the entry of moisture, dirt, and insects. The luminaire shall slip fit on a two (2) inch pipe arm.

The luminaire shall be provided with a leveling surface and shall be adjustable for ± 3 degrees to the pipe arm axis and transverse to the roadway and to any degree of adjustment perpendicular to the pipe arm axis and longitudinal to the roadway. The luminaire shall have a pipe arm barrier to limit the amount of insertion. The optical assembly shall have a built in tilt of 10 degrees from the horizontal. The refractor shall be held in such a manner as to allow for expansion and contraction of the glass refractor. The terminal board shall be equipped with pressure type connectors. The luminaires shall be shipped in adequate containers to insure their delivery in good mechanical condition and without damage to the finish.

Materials:

The housing and reflector holder shall be made of aluminum or aluminum alloy. The external metal parts shall be finished to resemble polished aluminum. On alloys that darken due to atmospheric exposure, the finish shall be accomplished by painting with a suitable lacquer, enamel or other paint. The reflector shall be made of aluminum sheet of such grade and quality that (a) the reflecting surface shall have a specular finish, (b) the reflection factor of the reflecting surface as determined by the A.H. Taylor-Baumgartner reflector meter shall not be less than 82% and, (c) the reflecting surface shall have a dense protective coating of oxide not less than 715 milligrams per square inch, applied by the anodic oxidation process. The refractor shall be made of crystal clear heat resistant Borosilicate glass and shall have refracting prisms to redirect the light into the specified light distribution. The lamp socket shall be mogul type, porcelain enclosed and be provided with grips or other suitable means to hold the lamp against vibration. The latches, nuts, screws, washers, pins and other parts shall be made of non-corrosive metals or of metals with non-corrosive finishes. The reflector-refractor and socket-reflector junctions shall be sealed with a high temperature rubber gasket. The lamp shall comply with the American Standards Association Specifications and shall have a rated life in excess of 24,000 hours. The ballast shall be designed to operate on 240 volts and shall (a) provide positive lamp ignition at an input voltage of 200 volts, (b) regulate the lamp voltage to 35% $\pm 6\%$ variation in line voltage per ANSI Standard Graph, (c) have a high power factor, linear type, low loss reactor, (d) have ballast losses not exceeding 12% to a nominal 100 V lamp at the nominal input voltage of 230 volts for 200 watt and 310 watt lamps and 9.5% for 400 watt lamps. The starter assembly shall be comprised of solid state devices capable of withstanding ambient temperatures of 85 degrees C. The starter shall provide timed pulsing with sufficient follow through current to completely ionize and start all lamps.

Light Distribution:

The light distribution shall comply with the type of distribution specified. The distribution type shall be as specified in the "American Standards Practice for Roadway Lighting" latest edition by the American Standards Association.

The Contractor shall submit Photometric Data consisting of an isolux chart of horizontal foot candles, a utilization curve, an isocandela diagram, and the ASA classification of the luminaire for the Owner's approval.

Tests:

The Village of Algonquin reserves the right to make such tests as it deems necessary to insure compliance with these Specifications and to reject those luminaires failing such tests,

or those luminaires with improper or inadequate light distribution. The Owner shall be the sole judge as to the quality of light distribution, materials and workmanship.

Pole Foundation:

This Work shall consist of the construction of a reinforced concrete foundation with dimensions required by the type of soil as shown on the Drawings.

Material: The concrete shall be Class X complying with Section 503 of the Standard Specifications. Anchor bolts, nuts and washers shall comply with the requirements of ASTM Designation A307 and can be either of the two (2) types shown on the Drawings. If the hook type anchor bolt is used, the hook shall be made by the hot bending method of bending the bolt. The projecting portion of the anchor bolt and the nut and washer shall be treated by the hot dipped galvanized method.

REPLACE FAULTY CABLE FOR STREET AND HIGHWAY LIGHTING SYSTEM

Under this item, for a unit price per lineal foot as shown in the Schedule of Prices, and when directed by the Owner's Representative in writing, the Contractor shall replace spans of street and roadway lighting system cable with cable-in-duct, or approved equal. This item of work shall not be confused or construed to be in conflict with any part of Routine Maintenance, which requires the replacement of spans and damaged cable by the Contractor at his expense. The Owner's Representative shall determine the need to replace cable, based upon a history of cable failure, data from tests made on the cable, visual inspection, and other pertinent data supporting the need for cable replacement. Nothing under this item shall be construed as obligating the Department to authorize any cable replacement.

Basis of Measurement: Electric cable unit duct shall be measured in lineal feet in place and taken as the length of the white wire. Measurement shall be made in a straight line.

LIGHT POLE, ORNAMENTAL, POST TOP MOUNT

This work shall consist of furnishing and installing a light pole ornamental, post top mounted at the location identified in the List of Lighting Systems. The work shall include all materials, labor and equipment necessary to install a light pole and base complete with all mounting hardware. The poles shall be as shown on the details provided by the Village. All work shall conform with the drawings and with the appropriate sections of the STANDARD SPECIFICATIONS, local electrical codes and the National Electric Code (NEC).

This work shall be paid for at the contract unit price each for **LIGHT POLE, ORNAMENTAL, POST TOP MOUNT.**

LUMINAIRE, LED, VERTICAL MOUNT

This work shall consist of furnishing and installing a complete LED luminaire, vertical mount, at the locations identified in the List of Lighting Systems. The work shall include all materials, labor and equipment necessary to install a luminaire complete with photocell, pole and field wiring, fuses and connectors. The luminaires shall be as shown on the details provided by the Village.

All work shall conform with the drawings and with the appropriate sections of the STANDARD SPECIFICATIONS, local electrical codes and the National Electric Code (NEC).

This work shall be paid for at the contract unit price each for **LUMINAIRE, LED, VERTICAL MOUNT.**

STREET LIGHTING CONTROLLER

DESCRIPTION:

- A. This item shall consist of furnishing and installing a roadway lighting electrical control cabinet complete with foundation and wiring for control of roadway lighting as specified herein and as directed by the Owner's Representative.
- B. Unless otherwise indicated, the cabinet, including all components, shall be new.

GENERAL:

- A. The cabinet shall be as shown in the Village of Algonquin Standard Details and be ground mounted a minimum width of 30 inches x 48 inches in height x 17 3/4 inches minimum depth (IDOT Type III) and shall be fabricated from aluminum alloy of 0.125" inches in thickness. The surfaces shall have a smooth, natural aluminum or painted finish.
- B. The main door is of NEMA type construction with a cellular neoprene gasket, which is rain and dirt tight without louver slots in the lower portion of the door to exclude the entry of moisture, dirt, and insects. Hinges are 14-gauge stainless steel. Standard equipment includes a three point locking system, which secures the door at the top, bottom, and center. A Corbin lock with two keys is also furnished. The main door is equipped with a two-position doorstop, one stop at 90 degrees and the other at 120 degrees.

A nameplate with the legend "Village of Algonquin Street Lighting" shall be fabricated and mounted on the main door.

- C. The cabinet shall be equipped with a vent in the underside of the top overhand above the door, which is designed to resist moisture, dirt, and insects.
- D. The equipment mounting panel shall be made of 1/4-inch minimum aluminum material and shall be drilled and tapped for front mounting of the equipment. The panel shall be easily installed and removed from the front of the panel.
- E. The heating strip shall not be mounted on the equipment mounting panel; the heating strip shall be mounted to the equipment rails on the side of the cabinet.

FOUNDATION:

- A. The foundation shall be furnished and installed in place per the dimensions as shown in Village of Algonquin Standard Details.
- B. The anchor bolts shall comply with ASTM A576. The top 6 inches of the anchor bolts shall be hot dipped galvanized steel according to ASTM 153. The nuts and lock washers shall be galvanized also.
- C. The foundation shall include a 3" rigid plastic raceway for the service, four (4) 2 1/2" rigid plastic raceways for the field circuits, and one spare raceway of 2" rigid plastic.
- D. The foundation shall include a copper coated steel ground grid as shown in the Village of Algonquin Standard Details.

CONTROLLER OPERATION:

- A. The street light controller shall control and provide over current protection for up to eight (8) or as was existing individual street light circuits. Each circuit is to be protected by the use of individual thermal-magnetic circuit breakers. Provisions shall be made for connection of up to #6 stranded copper conductors for the individual circuits.
- B. The street light controller shall be actuated by a remotely mounted photocell, which will operate through an auxiliary on-delay relay to pick up the controller's main mechanically held contactor. The operation of the photocell will insure that the street light circuits are energized during nighttime hours and de-energized during daytime hours.

CONTROLLER EQUIPMENT:

Shall be as shown in the Village of Algonquin Standard Details.

WIRING AND BUS BARS:

All wiring and bus bars shall be of a size to handle the rated current of the connected equipment. Exposed bus bars shall be insulated, except for ground and neutral bus bars.

GROUND AND NEUTRAL BUS BARS:

Separate ground and neutral bus bars shall be provided. The ground bus bar shall be copper and mounted on the equipment panel. The neutral bar shall be similar. The heads of the screws shall be painted white for the neutral bar and green for the ground bar.

WIRING AND IDENTIFICATION:

- A. Wiring within the cabinet shall be of the size specified for the corresponding service conductors and branch circuits and shall be rated RHH/RHW or MTW, 600 volts.
- B. Control and auxiliary wiring shall be a minimum of #10 copper and rated RHH/RHW or MTW with jacket, 600 volt, stranded copper of appropriate colored insulation of red, black, white, and green.
- C. All power and control wiring shall be tagged with self-sticking cable markers and shall be stranded copper.
- D. All switches, controls and the like shall be identified as to function and position (as applicable) by means of engraved 2 color nameplates attached with screws.

CIRCUIT BREAKERS:

- A. All feeders, branch circuits, and auxiliary and control circuits shall have over current protection per the requirements of the NEC and as shown on the engineering plans. The over current protection shall be by means of circuit breakers.
- B. Circuit breakers shall be standard UL-listed molded case, thermal magnetic "I-Line" breakers with trip free indicating handles with terminals adequate for #6 single conductor copper cable.
- C. Circuit breakers shall have an UL-listed interrupting rating of not less than 10,000 rms symmetrical amperes at rated voltage.
- D. The eight (8) branch circuit breakers shall be as specified on the circuit schematic, unless a greater/lesser number is specified.

CONTACTOR(S):

- A. The contactor shall be electrically operated, mechanically held, with the number of poles required for the service and with 120 volt operating coil voltage as indicated or otherwise required. Unless otherwise indicated in the engineering plans, the contactor shall be an ASCO 2P, 100 amp (min.).
- B. Contactor(s) shall be complete with a non-conducting inorganic, non-asbestos sub-panel for mounting.
- C. Contactor(s) shall be mechanically held, and shall be complete with coil-clearing contacts to interrupt current through the coil once the contactor is held in position.
- D. The main contactor contacts shall be double break, silver-to-silver type. They shall be spring-loaded and provide a wiping action when opening and closing.

The contacts shall be renewable from the front panel, self-aligning, and protected by auxiliary arcing contacts.

- E. The line and load terminals shall be pressure type terminals of copper construction and of the proper size for the ampere rating of the contactor.
- F. The contactor operating coil shall be rated for nominal 120 volt, single phase.
- G. Protection from accidental contact with current carrying parts, when operating the contactor manually, shall be provided.
- H. Contactors shall be clearly marked to indicate whether they are in the open or closed position.

AUTO/MANUAL CONTROL:

- A. The cabinet shall be equipped with automatic and manual operating controls via a one-pole, double-throw switch. The switch shall be premium specification grade, rated for the applied duty, but not less than 20 amperes at 120 volts and shall be mounted in a 4-inch square box with cover.
- B. The cabinet control and auxiliary device circuit shall have over current protection as indicated and as required by NEC.
- C. Each street lighting controller shall be wired to an individual photocell located on top of the cabinet. The photocell shall operate at 120 volts, 60 Hertz, AC, and be rated at 1,000 watts. The photocell shall be grounded to the cabinet. The photocell shall be wired to the street lighting controller with 1 1/4" minimum size, 3/C - #10, 600V, XLP/USE-2 of colored insulation of red, black, and white, if the cabling to the photo-cell cannot be pulled into a field circuit conduit. The photocell, the photocell control wiring connecting the controller in the cabinet to the photocell, and the unit duct for the photo-cell wiring are separate pay items and are not included in the cost for STREET LIGHTING CONTROLLER.

INTERIOR LIGHTING AND RECEPTACLE:

- A. The auxiliary device circuit shall provide 120 volts single phase to supply the convenience receptacle and cabinet light.
- B. The cabinet shall be equipped with an interior, 60-watt incandescent lighting fixture of the enclosed and gasketed type switched from a single pole, single

throw, 20 amperes switch. The switch shall be premium specification grade in a suitable 4-inch box with a cover.

- C. The cabinet shall be equipped with a 120-volt, 20-ampere G.F.I. duplex receptacle, premium specification grade in a 4-inch square box with a cover.
- D. The cabinet shall be equipped with a heating strip that shall maintain the temperature within the cabinet at a minimum of forty (40) degrees Fahrenheit.

TESTING OF THE ASSEMBLED CABINET:

Prior to shipment of the completed cabinet, the control cabinet shall be tested for load, short circuits and complete operation of the cabinet as specified herein.

This work will be paid for at the contract unit price per **EACH** for "**STREET LIGHTING CONTROLLER**"

STREET LIGHTING CONTROLLER AND FOUNDATION, REMOVAL

Work shall include removal of the existing street lighting controller cabinet and shall be disposed of by the Contractor. The controller foundation shall be removed to a depth of 12" below grade and disposed of by the Contractor unless the controller location is a replacement/retrofit of an existing pedestal mounted street light controller for which the top 6 inches of the existing foundation will be removed and four anchor Bolts will be set into the remaining foundation at a depth to be a minimum of 12 " below the finished grade of the cabinet foundation so as to tie the existing foundation into the new ground mount cabinet foundation.

This work will be paid for at the contract unit price per EACH for "**STREET LIGHTING CONTROLLER AND FOUNDATION, REMOVAL**"

STREET LIGHTING CONTROLLER, SALVAGE

Work shall include removal of the existing street lighting controller cabinet and salvage to the Village and shall be transported to the location identified by the Village. The Contractor shall safeguard the controller cabinet and equipment contained in it to insure that the controller remains in the condition prior to the start of this project.

This work will be paid for at the contract unit price per EACH for "**STREET LIGHTING CONTROLLER, SALVAGE**:"

STREET LIGHTING CONTROLLER FOUNDATION, REMOVAL

Work shall include removal of the existing street lighting controller foundation. The controller foundation shall be removed to a depth of 12" below grade and disposed of by the Contractor unless the controller location is a replacement/retrofit of an existing pedestal mounted street light controller for which the top 6 inches of the existing foundation will be removed and four anchor Bolts will be set into the remaining foundation at a depth to be a minimum of 12 "

below the finished grade of the cabinet foundation so as to tie the existing foundation into the new ground mount cabinet foundation.

This work will be paid for at the contract unit price per **EACH** for **"STREET LIGHTING CONTROLLER FOUNDATION, REMOVAL"**

PHOTOCELL CONTROL WIRE, 3/C - #10

This item shall consist of furnishing, installing, and connecting 3/C No. 10 AWG 600 volt insulated copper conductor, USE-2/XLP, stranded in conformance with ASTM B-8 from the photocell on the luminaire closest to the street lighting control cabinet through underground duct to the terminal connections in the street lighting control cabinet. Connection of pole wire to the terminals in the street lighting luminaire is incidental to the installation of the pole wire.

Photocell control wire, 3/C - #10 shall be insulated with cross-linked polyethylene, (XLP) insulation jackets of black, red, and white colored insulation. The wire is to run inside the duct, the pole and the mast arm.

SPLICING OF LIGHTING CABLES shall be incidental to the installation of electrical cable in conduit. This work will be paid for at the contract unit price per FOOT for **"PHOTOCELL CONTROL WIRE, 3/C - #10"**.

State of Illinois
Department of Transportation
Bureau of Local Roads and Streets

SPECIAL PROVISION
FOR
INSURANCE

Effective: February 1, 2007
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

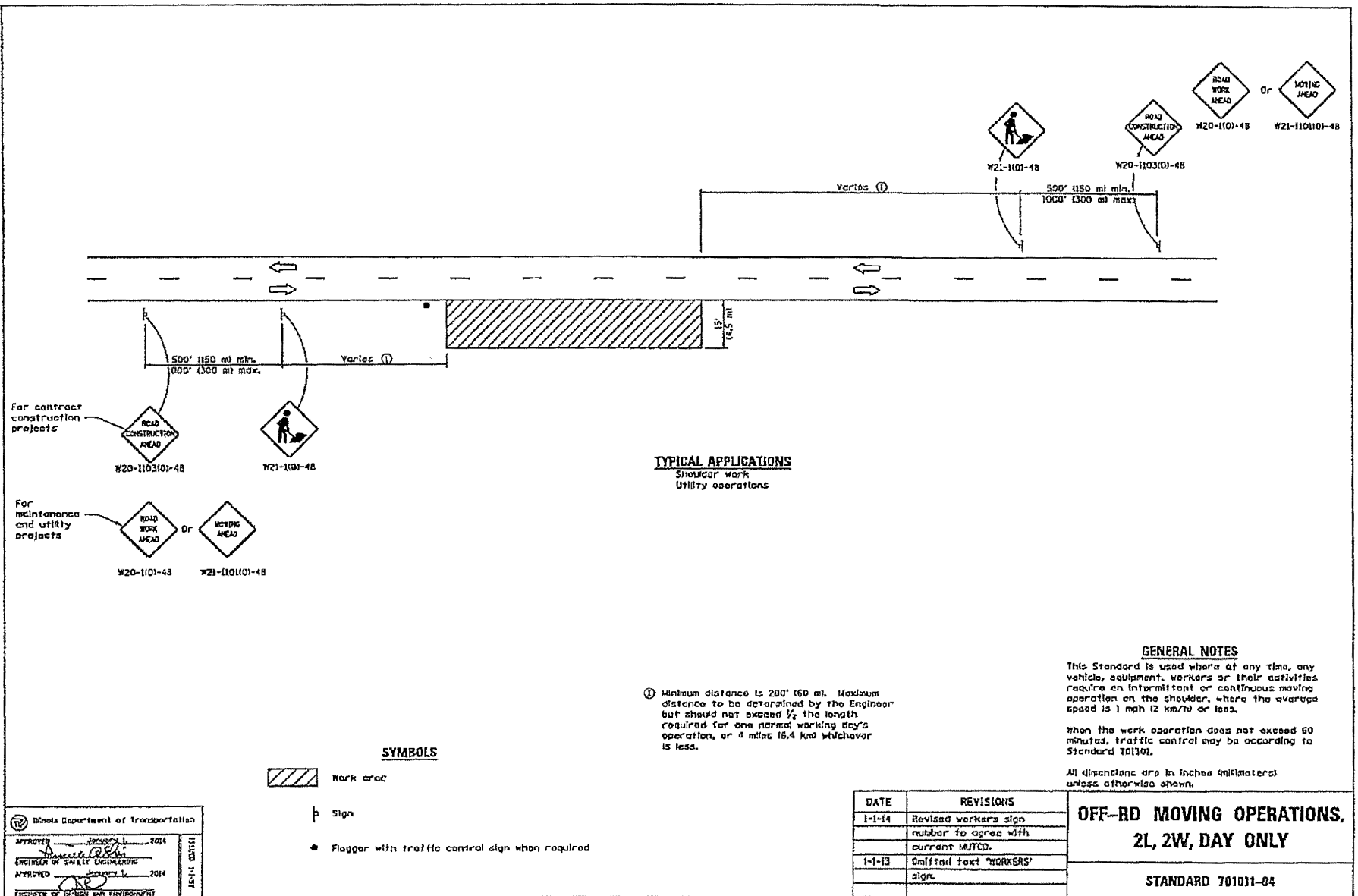
The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

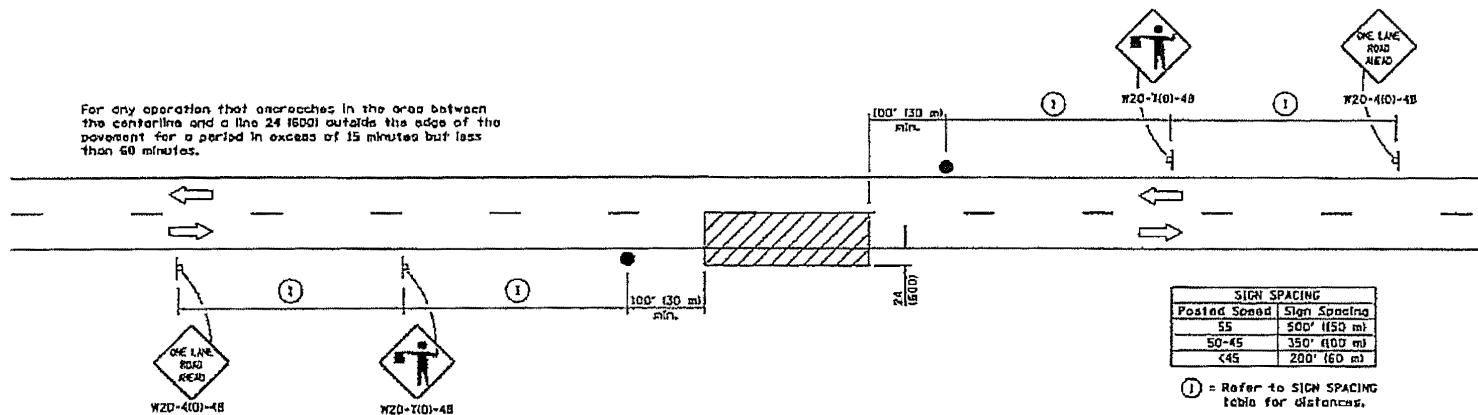
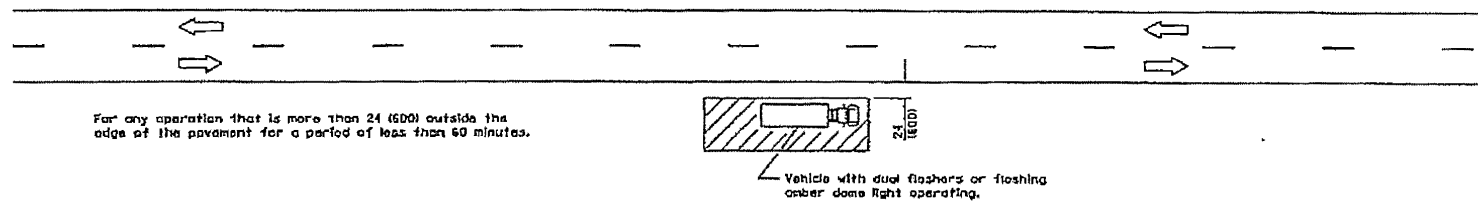
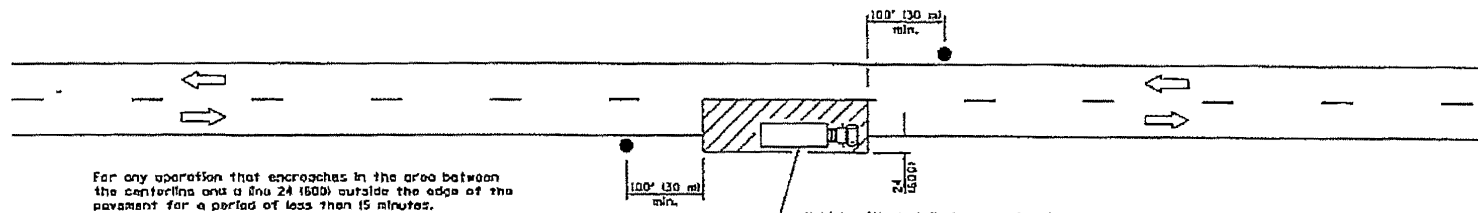
Village of Algonquin

Christopher B. Burke Engineering, Ltd.

The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

HIGHWAY STANDARDS





TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

Work area
Sign on portable or permanent support
Flagger with traffic control sign

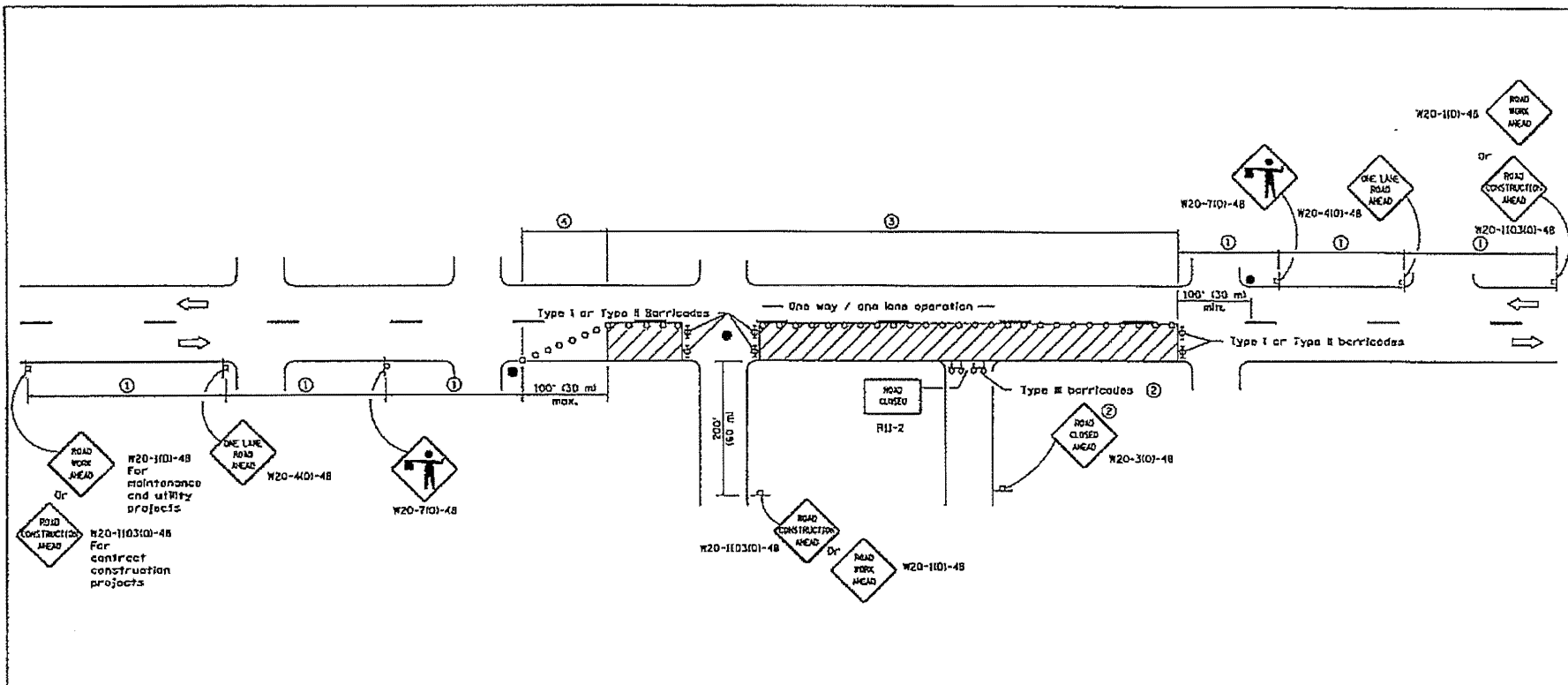
All dimensions are in inches (millimeters) unless otherwise shown.

Texas Department of Transportation	
APPROVED _____ 2011 CHIEF OF SAFETY ENGINEERING APPROVED _____ 2011 ENGINEER OF DESIGN AND CONSTRUCTION	15150-0-0101 48-114

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



SIGN SPACING	
Posted Speed	Sign Spacing
35	500' (150 m)
50-65	350' (100 m)
65	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sidewalk closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

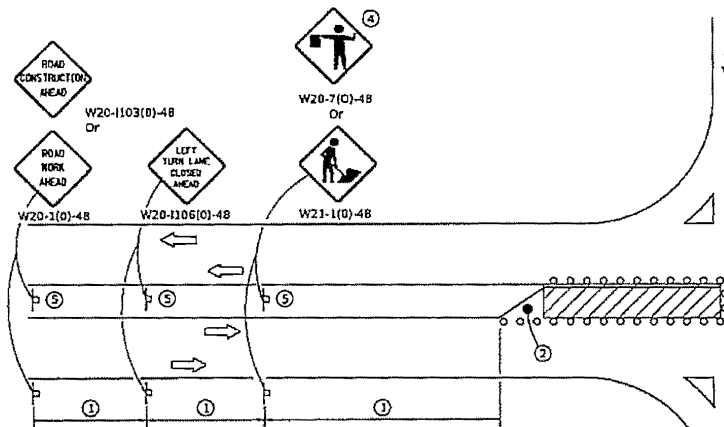
All dimensions are in inches (millimeters) unless otherwise shown.

Tennessee Department of Transportation	
APPROVED: <i>[Signature]</i> 2011 ENGINEER OF SAFETY ENGINEERING APPROVED: <i>[Signature]</i> 2011 CHIEF OF POLICE AND INSPECTOR	11/11/11 14-1-11

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-05



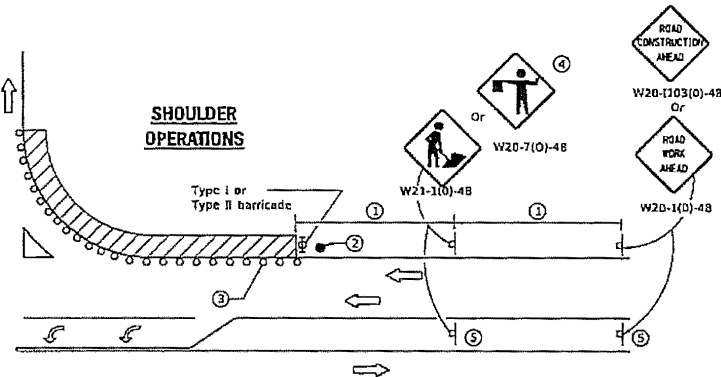
LEFT TURN LANE OR CENTER MEDIAN OPERATIONS

- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

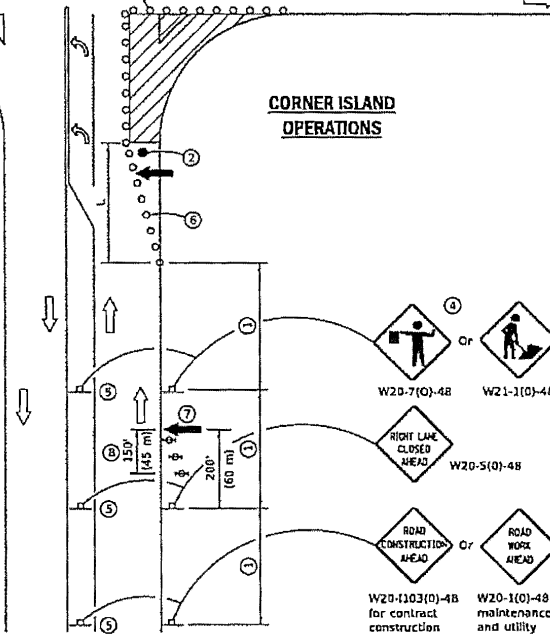
SYMBOLS

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

SHOULDER OPERATIONS



CORNER ISLAND OPERATIONS



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT

FORMULAS

English

(Metric)

40 mph (70 km/h)
or less:

$L = \frac{WS^2}{50}$

$L = \frac{WS^2}{150}$

45 mph (80 km/h)
or greater:

$L = (W)(S)$

$L = 0.65(W)(S)$

W = Width of offset
in feet (meters).

S = Normal posted speed
mph (km/h).

All dimensions are in inches (millimeters)
unless otherwise shown.

URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701-10

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-16	Added devices at arrow board upstream from taper.
	Rev. workers sign number.

Illinois Department of Transportation

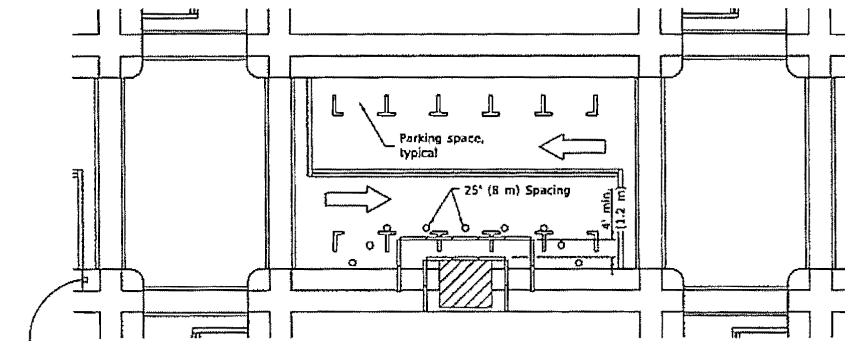
PASSED April 1, 2016

ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

ENGINEER OF DESIGN AND ENVIRONMENT

15100 11-17



① Omit whenever duplicated by road work traffic control.

③ ROAD CONSTRUCTION AHEAD
W20-1103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD
W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

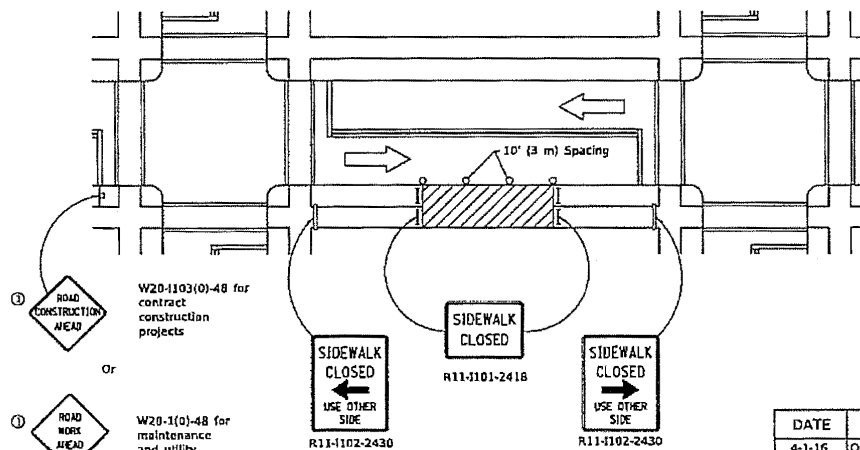
The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corner across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade



SIDEWALK CLOSURE

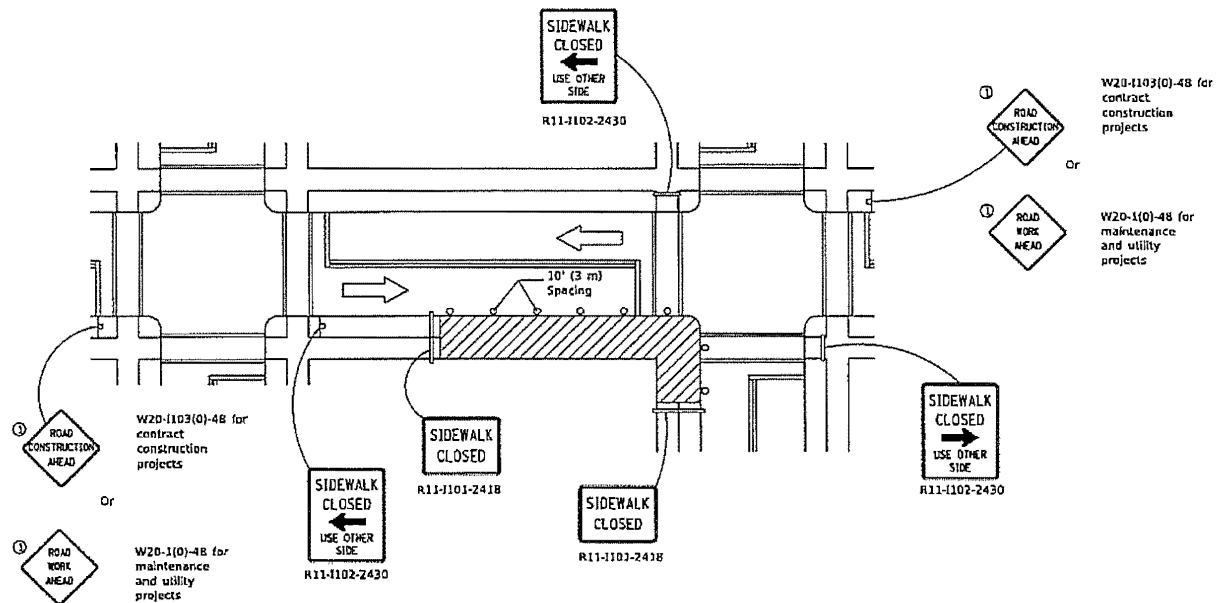
DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views. Renamed Std.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

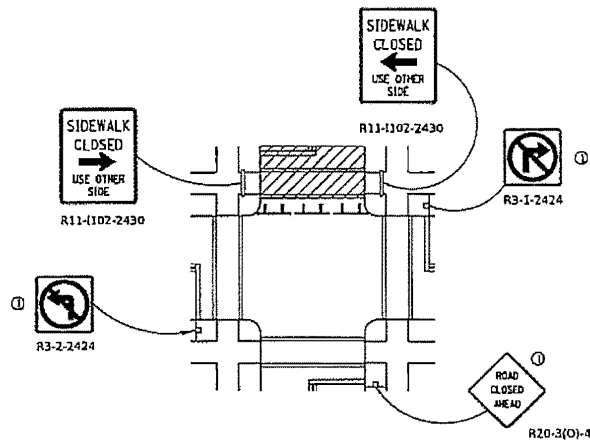
(Sheet 1 of 2)

STANDARD 701801-06

Illinois Department of Transportation	
PASSED	APR 1, 2016
ENGINEER OF SAFETY ENGINEERING	
APPROVED	APR 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	



CORNER CLOSURE



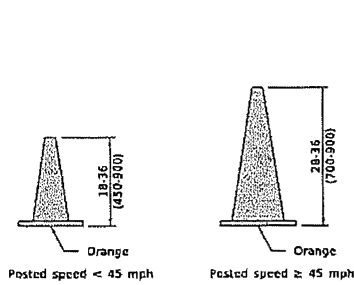
CROSSWALK CLOSURE

**SIDEWALK, CORNER OR
CROSSWALK CLOSURE**

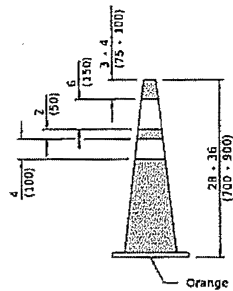
(Sheet 2 of 2)

STANDARD 701801-06

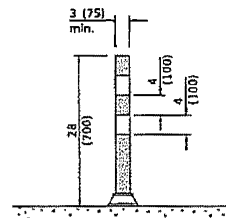
Illinois Department of Transportation	
PASSED	April 3, 2016
ENGINEER OF SAFETY ENGINEERING	
APPROVED	April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	



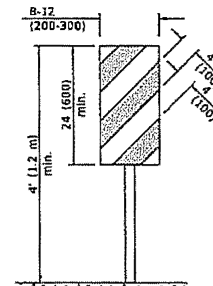
**CONE FOR
DAYTIME**



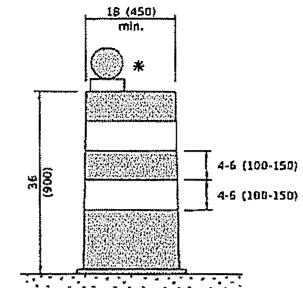
**REFLECTORIZED CONE
FOR NIGHTTIME**



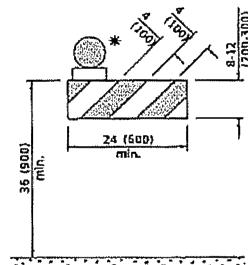
TUBULAR MARKER



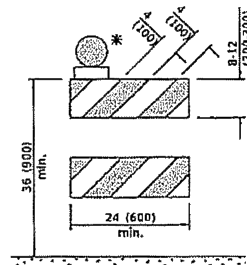
**VERTICAL PANEL
POST MOUNTED**



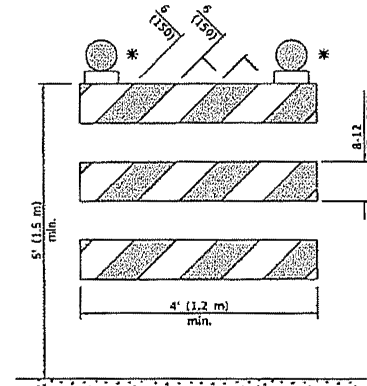
DRUM



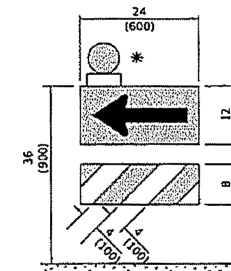
TYPE I BARRICADE



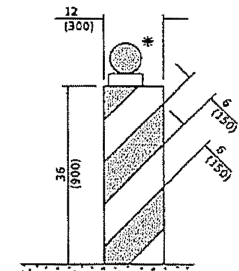
TYPE II BARRICADE



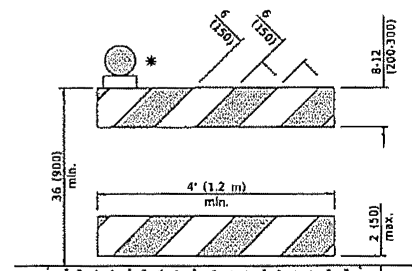
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.
1-1-17	Changed FLEXIBLE DELINEATOR to TUBULAR MARKER.

**TRAFFIC CONTROL
DEVICES**

(Sheet 1 of 3)

STANDARD 701901-07

Illinois Department of Transportation

PASSED January 1, 2018

ENGINEER OF OPERATIONS

APPROVED January 1, 2018

ENGINEER OF DESIGN AND ENVIRONMENT

241-1 01/18

Illinois Department of Transportation

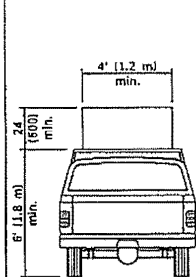
PASSED January 3, 2018

ENGINEER OF OPERATIONS

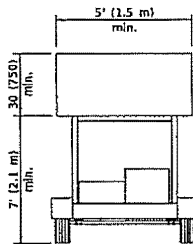
APPROVED January 3, 2018

MEMBER OF PUBLIC AND ENVIRONMENT

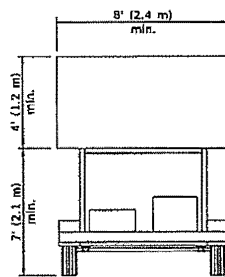
ISSUED 1-3-18



TYPE A
ROOF
MOUNTED

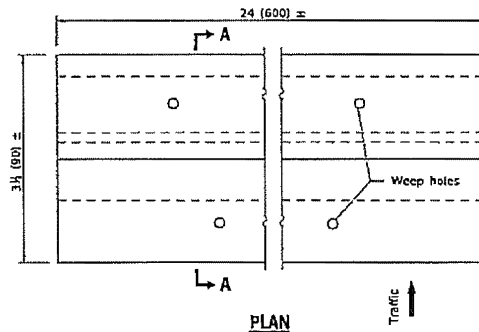


TYPE B
ROOF OR TRAILER
MOUNTED

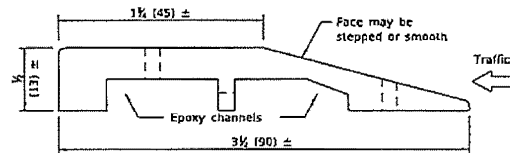


TYPE C
TRAILER
MOUNTED

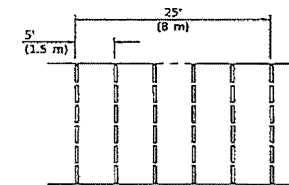
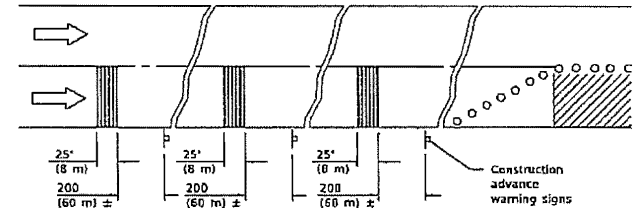
ARROW BOARDS



PLAN

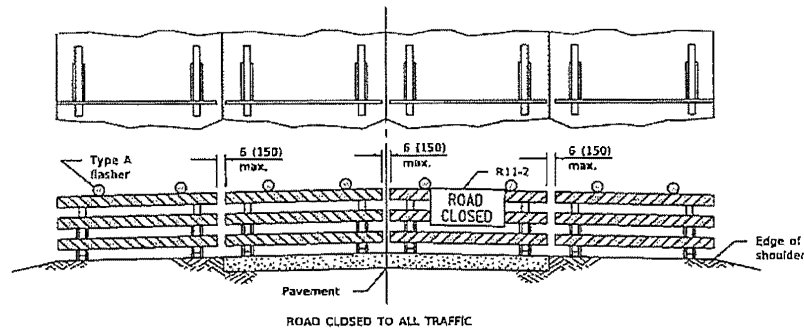


SECTION A-A



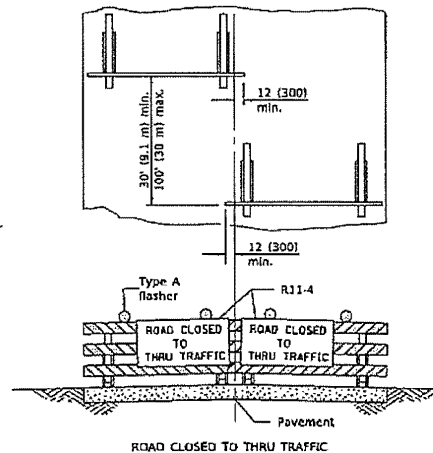
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ReflectORIZED striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD



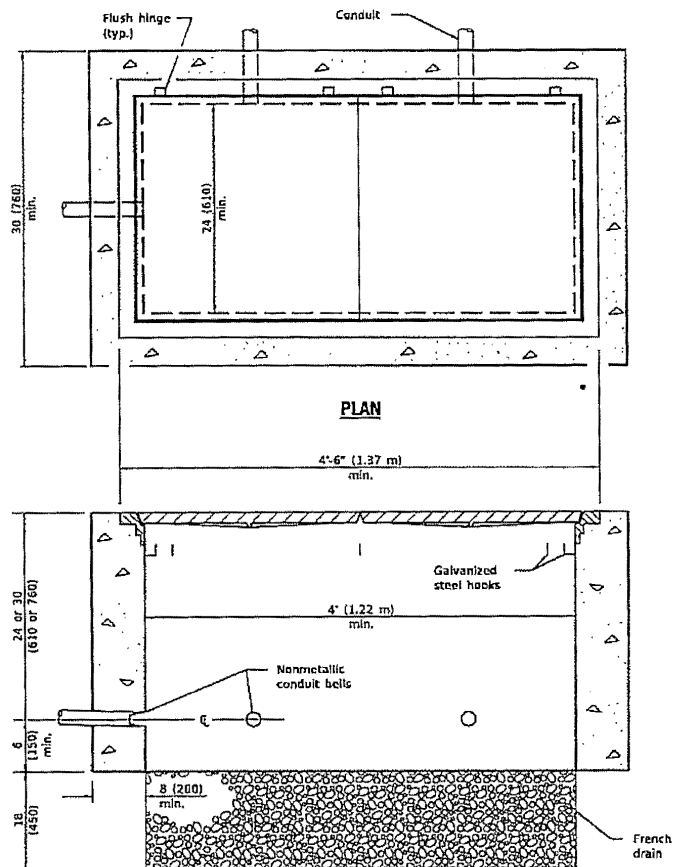
ReflectORIZED striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TRAFFIC CONTROL
DEVICES

(Sheet 3 of 3)

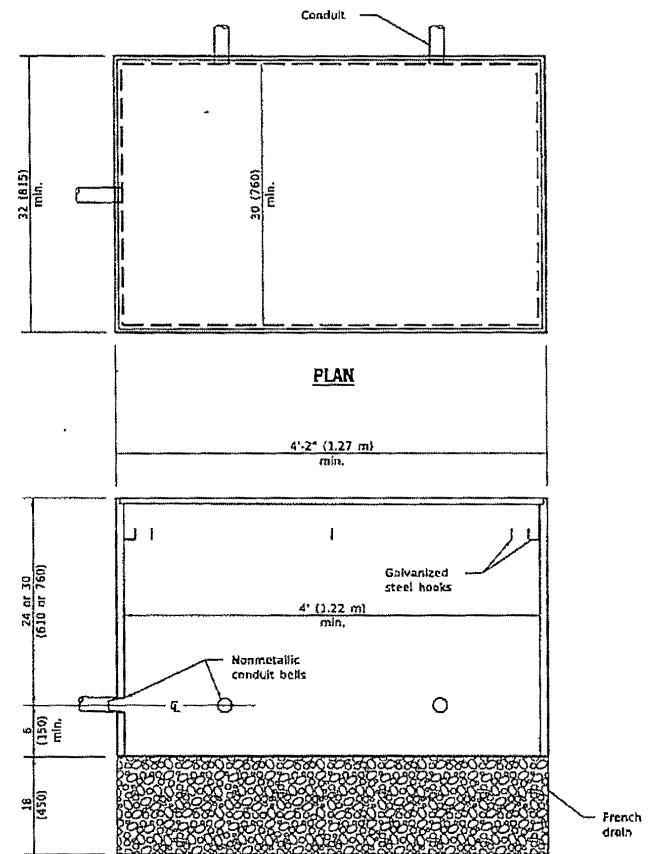
STANDARD 701901-07

Illinois Department of Transportation	
PASSED	January 1, 2018
ENGINEER OF OPERATIONS	
APPROVED	January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT	



ELEVATION

PORTLAND CEMENT CONCRETE



ELEVATION

COMPOSITE CONCRETE

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Revised composite conc. handhole, Rem. weights of frames and covers.

DOUBLE HANDHOLES

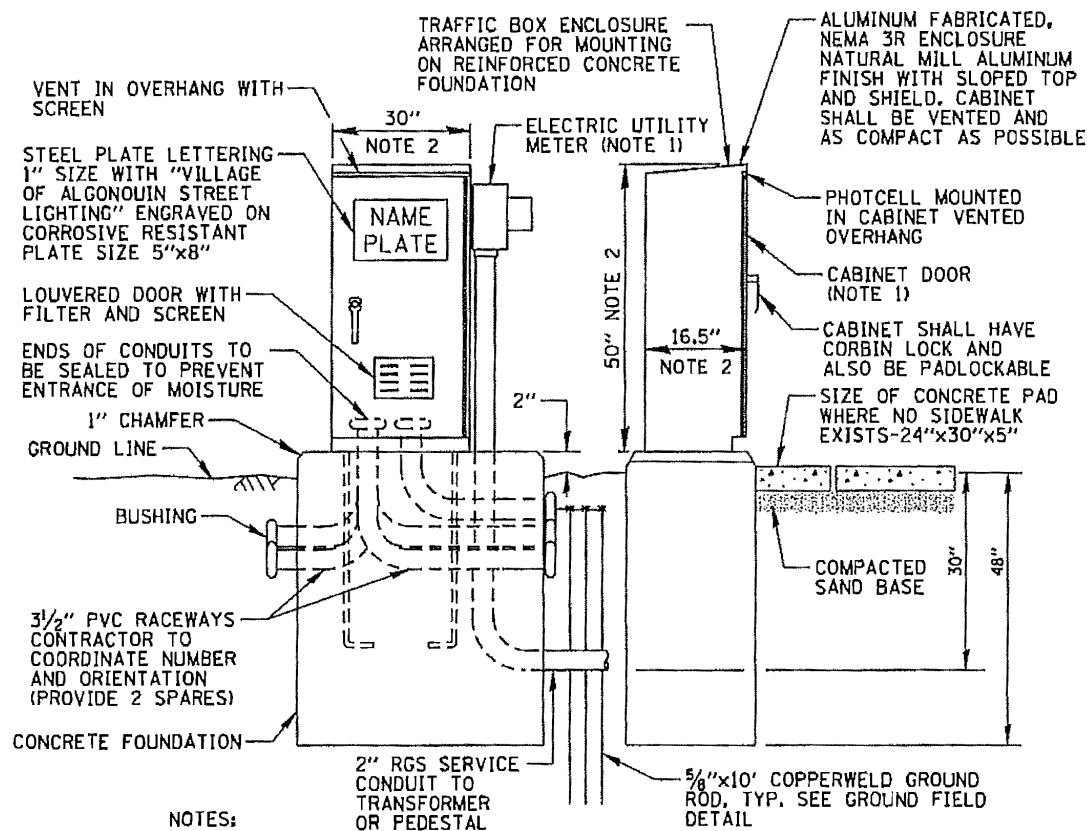
STANDARD 814006-02

Illinois Department of Transportation	
PASSED	January 1, 2009
ENGINEER OF OPERATIONS	
APPROVED	January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT	

VILLAGE STANDARDS



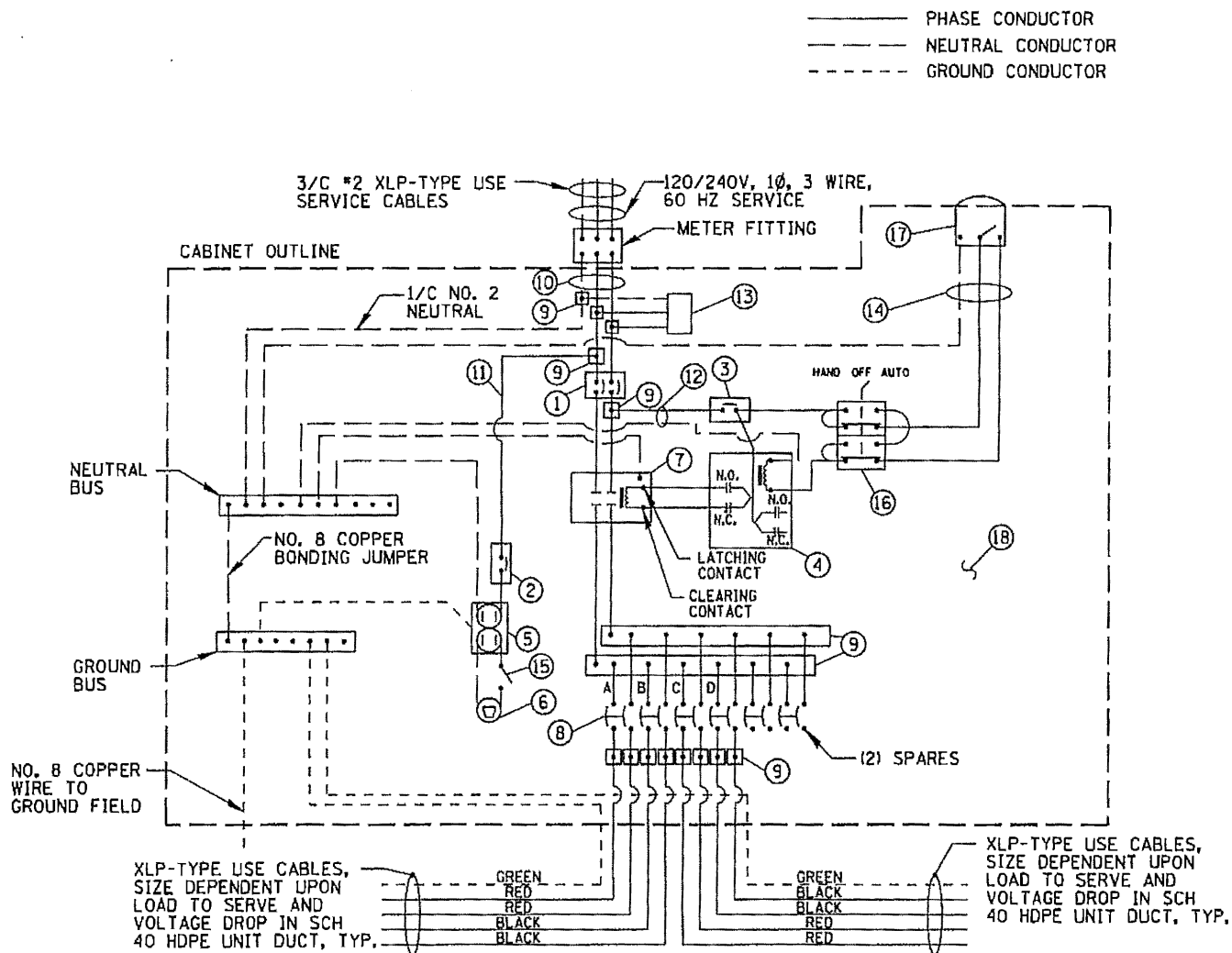
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STANDARD DETAIL	
LIGHTING CONTROLLER CABINET & FOUNDATION	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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STANDARD DETAIL	
LIGHTING CONTROLLER WIRING DIAGRAM	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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ITEM	SPECIFICATION	MFG./MODEL NO. OR APPROVED EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC	SIEMENS NO. ED22B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B020
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B015
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389 FXBXC1 - 120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD	SQUARE D NO. 8903 S00 10 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	6 - 20 AMPERE, 2P, 240V RATING, 10KAIC	SIEMENS NO. ED22B020
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
⑫ CONTROL WIRE	2-600V XLP NO. 12	N/A
⑬ SURGE ARRESTOR	10 K AMPERE RATING	SQUARE D NO. SDSA 1175
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20GQ-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105M
⑱ BACK PANEL	1/2" THICK SOLID PHENOLIC LAMINATE	ARBORON

NOTES:

1. ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
2. THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
3. CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."

STANDARD DETAIL	
LIGHTING CONTROLLER COMPONENT SCHEDULE	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



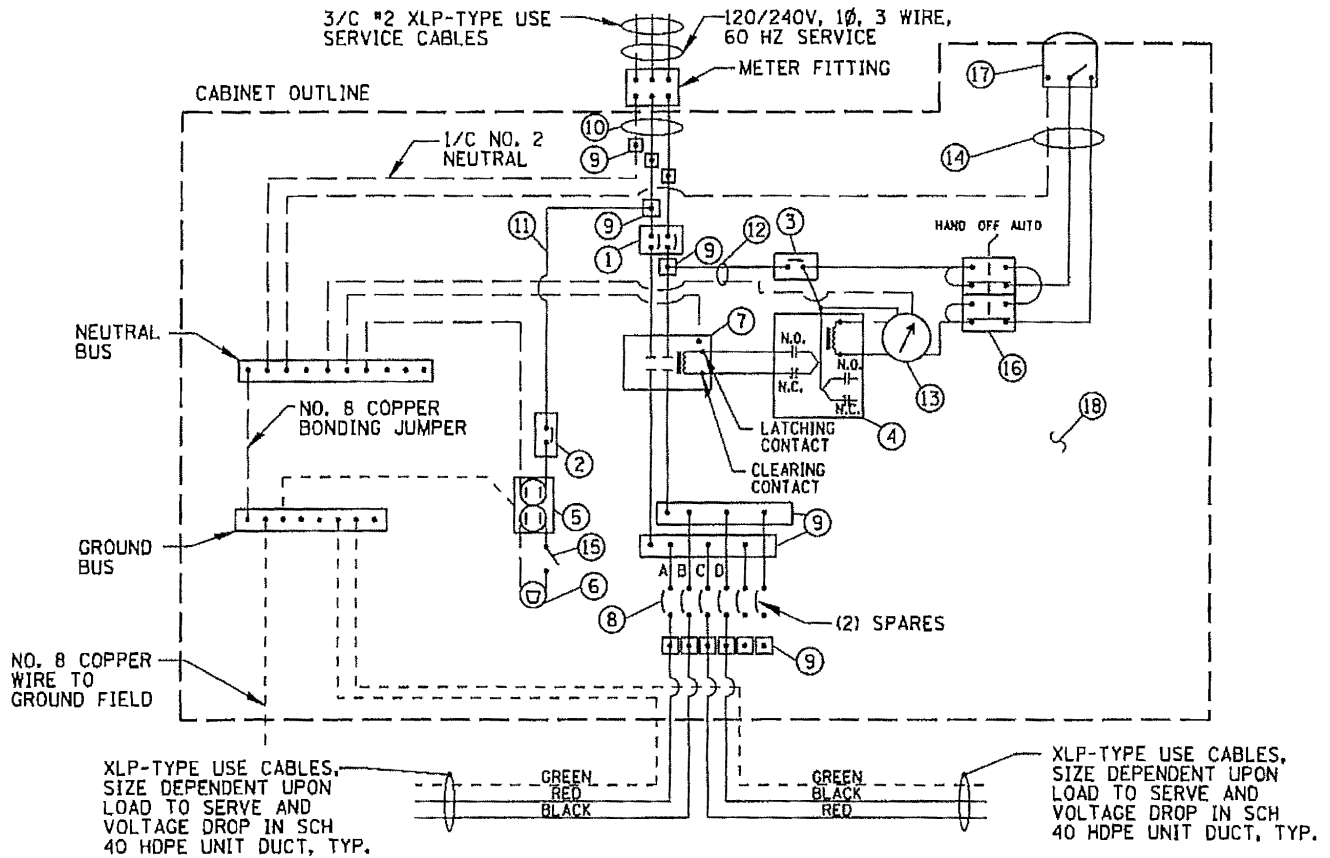
1. SEE DETAIL FOR CABINET METER FITTING & DOOR ORIENTATION.
2. CABINET DIMENSIONS SHOWN ARE APPROXIMATE, CABINET SHALL BE AS COMPACT AS POSSIBLE, CONTRACTOR TO COORDINATE.
3. BOTH FRONT AND REAR DOORS ARE TO BE THE SAME WITH S.S. HANDLES, THREE POINT LATCHING, PADLOCK HASPS, NEOPRENE GASKETS ALL AROUND, CONTINUOUS S.S. HINGES, AND LOUVERS WITH FILTER AND SCREEN.
4. TWO 1/8" ALUMINUM EQUIPMENT PANELS ARE MOUNTED ON 'C' CHANNELS AND CENTERED IN CABINET.
5. FRONT AND REAR DOORS HINGED ON CABINET RIGHT SIDE.

HISTORIC DISTRICT/PARKS LIGHTING DETAIL	
COMBINATION CONTROLLER CABINET & FOUNDATION	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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——— PHASE CONDUCTOR
- - - - - NEUTRAL CONDUCTOR
- - - - - GROUND CONDUCTOR



HISTORIC DISTRICT/PARKS LIGHTING DETAIL	
RECEPTACLE CONTROLLER WIRING DIAGRAM	
Village of Algonquin Specifications & Details Guide	
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① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC	SIEMENS NO. ED22B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B020
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B015
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389 FXBXC1 - 120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD	SQUARE D NO. 8903 500 10 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	50 AMPERE, 1P, 120V RATING, 10KAIC, GFCI	CUTLER/HAMMER NO. EHD1050
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
⑫ CONTROL WIRE	2-600V XLP NO. 12	N/A
⑬ TIMECLOCK	2-POLE SINGLE THROW, 20 AMPS PER POLE	TORK ASTRONOMIC TIME SWITCH DZS200BP
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20GQ-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105M
⑱ BACK PANEL	1/2" THICK SOLID PHENOLIC LAMINATE	ARBORON

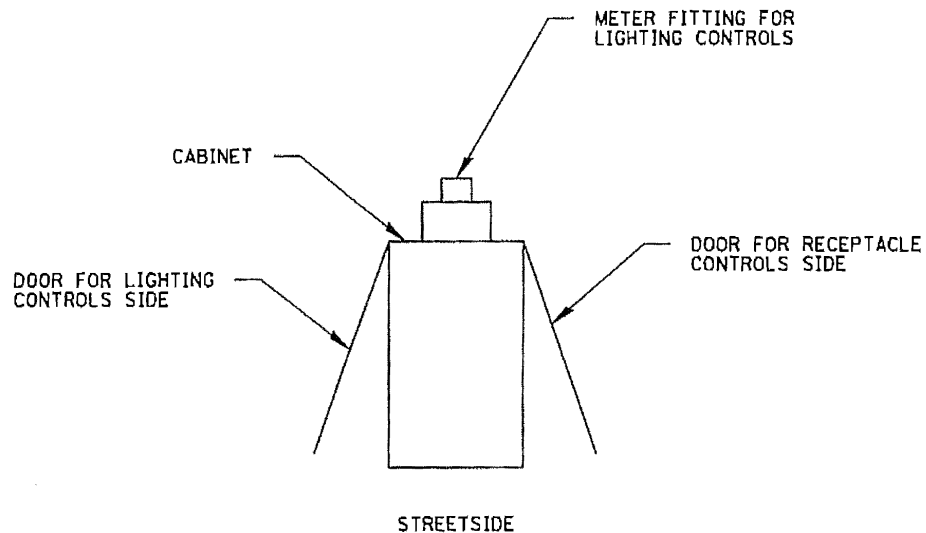
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3. CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."

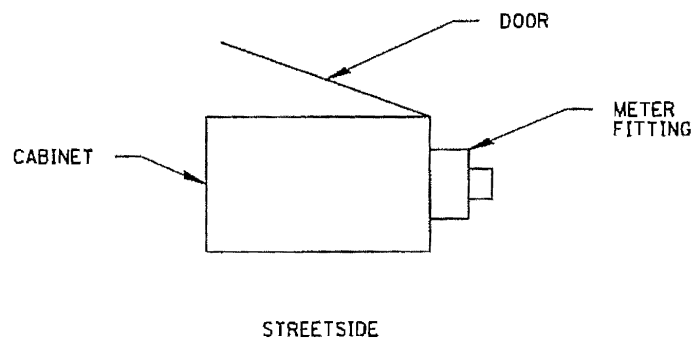
HISTORIC DISTRICT/PARKS LIGHTING DETAIL	
RECEPTACLE CONTROLLER COMPONENT SCHEDULE	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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DOUBLE DOOR

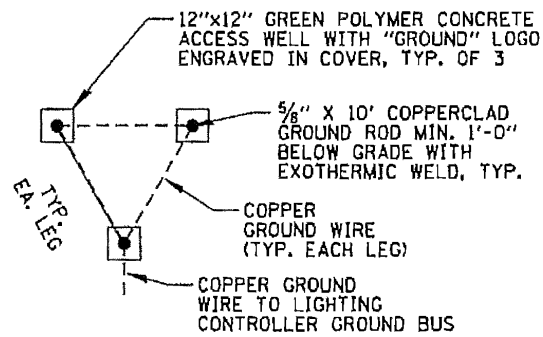


SINGLE DOOR

STANDARD DETAIL	
CABINET ORIENTATION	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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STANDARD DETAIL

GROUND FIELD DETAIL

Village of Algonquin Specifications & Details Guide

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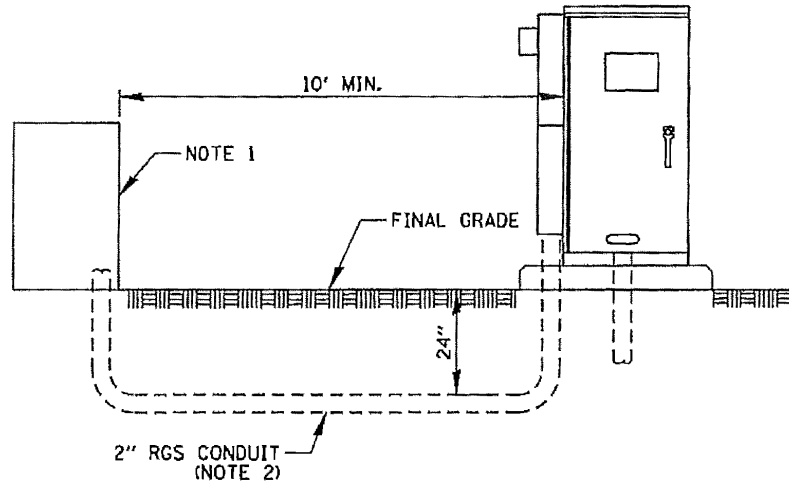
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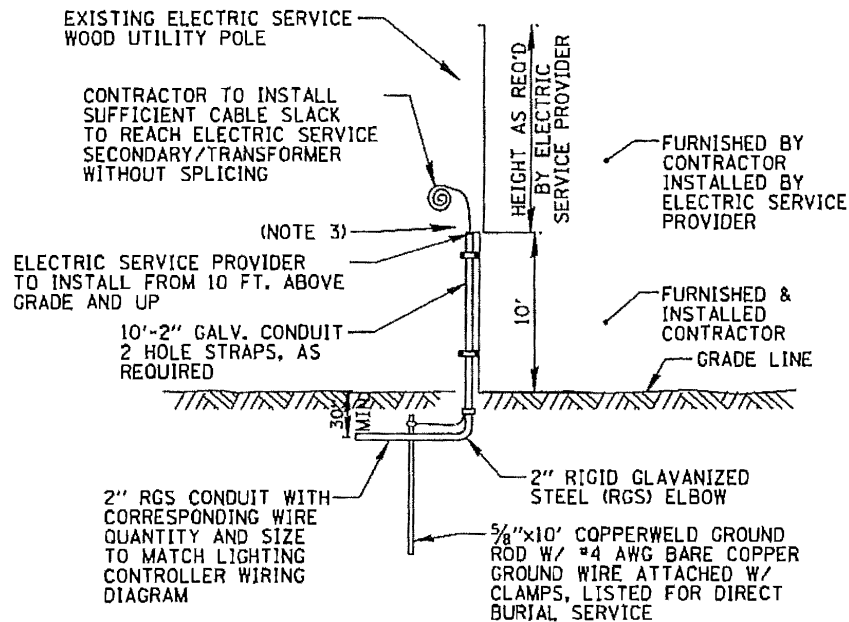
NOTES:

1. ELECTRIC SERVICE PEDESTAL OR TRANSFORMER LOCATED IN EASEMENT. COM ED WILL PROVIDE CONNECTORS FOR CABLES AND CONNECT CABLES WITHIN THE COM ED ENCLOSURE. COM ED WILL IDENTIFY CUSTOMER'S STREET LIGHT CABLE.
2. WIRE SIZE TO MATCH WIRE SIZE CALLED OUT IN LIGHTING CONTROLLER WIRING DIAGRAM.

STANDARD DETAIL	
UNDERGROUND SERVICE INSTALLATION	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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NOTES:

1. ALL WORK SHALL CONFORM TO ELECTRIC SERVICE PROVIDER'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. FURNISHING AND INSTALLING ALL MATERIAL SHOWN ABOVE (EXCEPT FOR POLE) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE INSTALLATION". THE HORIZONTAL SERVICE CONDUIT AND WIRING FROM POLE TO CONTROLLER SHALL BE PAID FOR SEPARATELY.
3. CONTRACTOR TO PROVIDE A CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.

STANDARD DETAIL

OVERHEAD SERVICE INSTALLATION

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

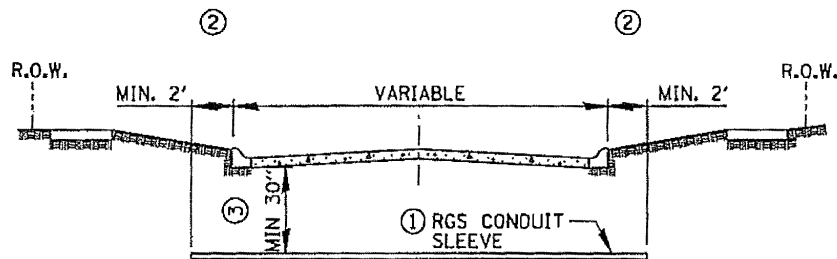
Revision Date 4/7/2015

Approved By: Shawn M. Hurtig

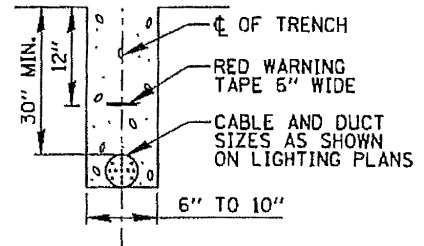
Effective Date 05/01/2015



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ROADWAY CROSSING



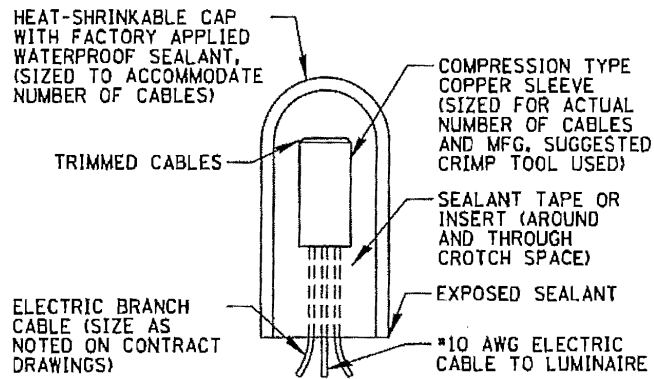
TRENCH CROSS SECTION

- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 30" BELOW ROADWAY OR CURB BOTTOM.

STANDARD DETAIL	
CONDUIT DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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STANDARD DETAIL

ELECTRIC CABLE SPLICE DETAIL

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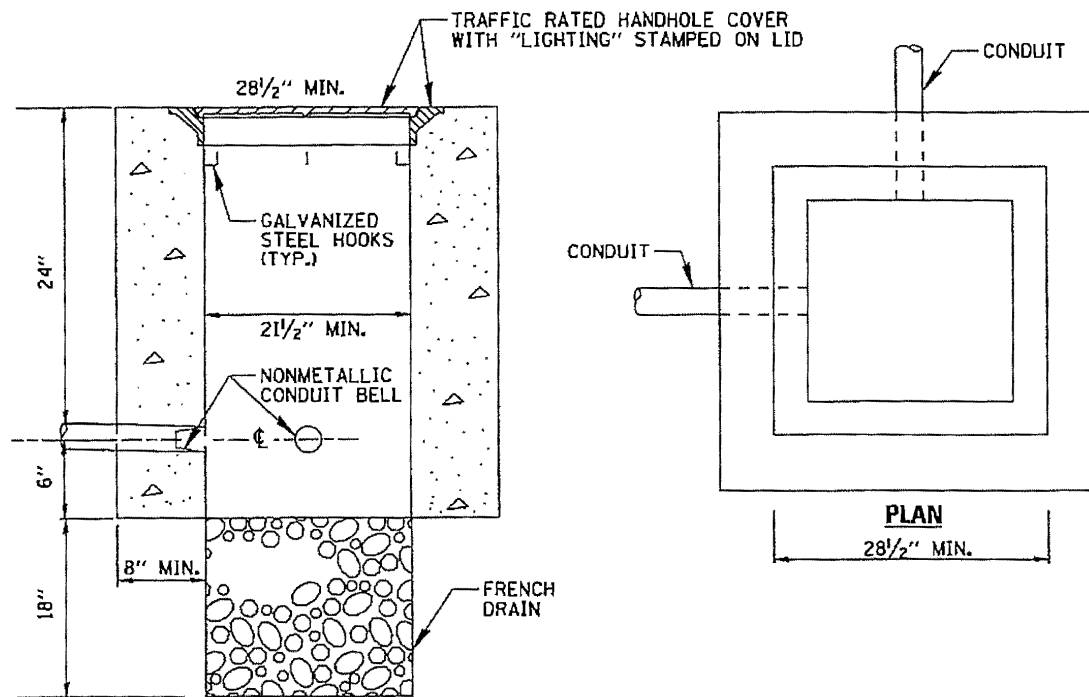
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ELEVATION

NOTE:

1. FRAME AND COVER CAN BARE 140 LBS. MIN. LOAD

STANDARD DETAIL

CONCRETE HANDHOLE

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

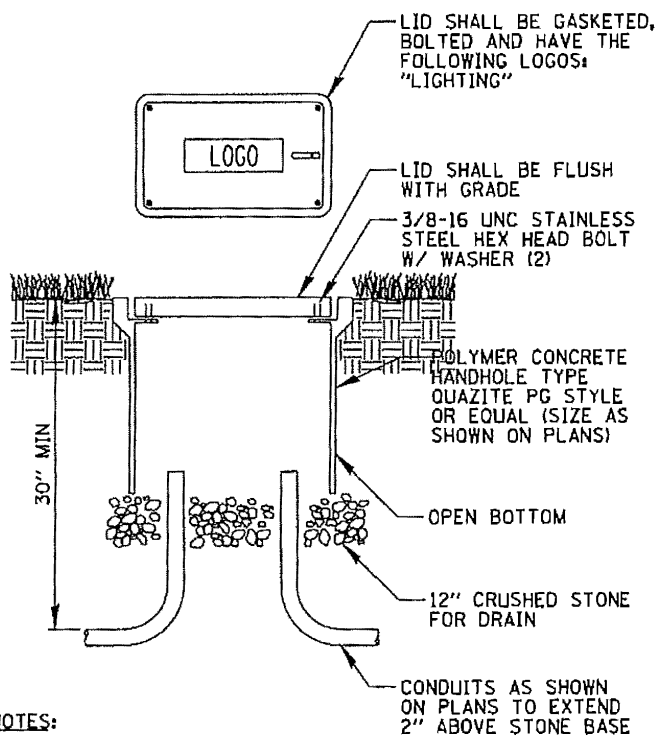
Revision Date 4/7/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT
110 MEYER DRIVE
ALGONQUIN, IL 60102-2442
PH: 847-658-2754
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NOTES:

1. ALL SPLICES SHALL BE WATERPROOF. SEE SPLICING DETAIL.
2. POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREY.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATIONS FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTER UNDERGROUND COMMITTEE GUIDE 3.6.

STANDARD DETAIL

JUNCTION BOX DETAIL

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

Revision Date 4/7/2015

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NOTES:

1. FINISH: HOT DIP GALVANIZED PER AASHTO M111 (LATEST REVISION).
2. BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (± 1 DEG) AND HOLE CENTERLINE CONCENTRIC ($\pm .188$) TO SHAFT AXIS.
3. STENCIL MIN $\frac{1}{2}$ IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (± 125 FIM) AND IN LINE (± 2 DEG).
5. FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUT IRREGULARITIES PERMISSIBLE: (1) VALLEYS NOT TO EXCEED $\frac{1}{32}$ IN. BELOW NOMINAL SURFACE LEVEL, (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED $\frac{1}{32}$ IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

BASEPLATE: ASTM A36-(LATEST REVISION) STRUCTURAL (CONFORM TO AASHTO TECH. BUL. #270)

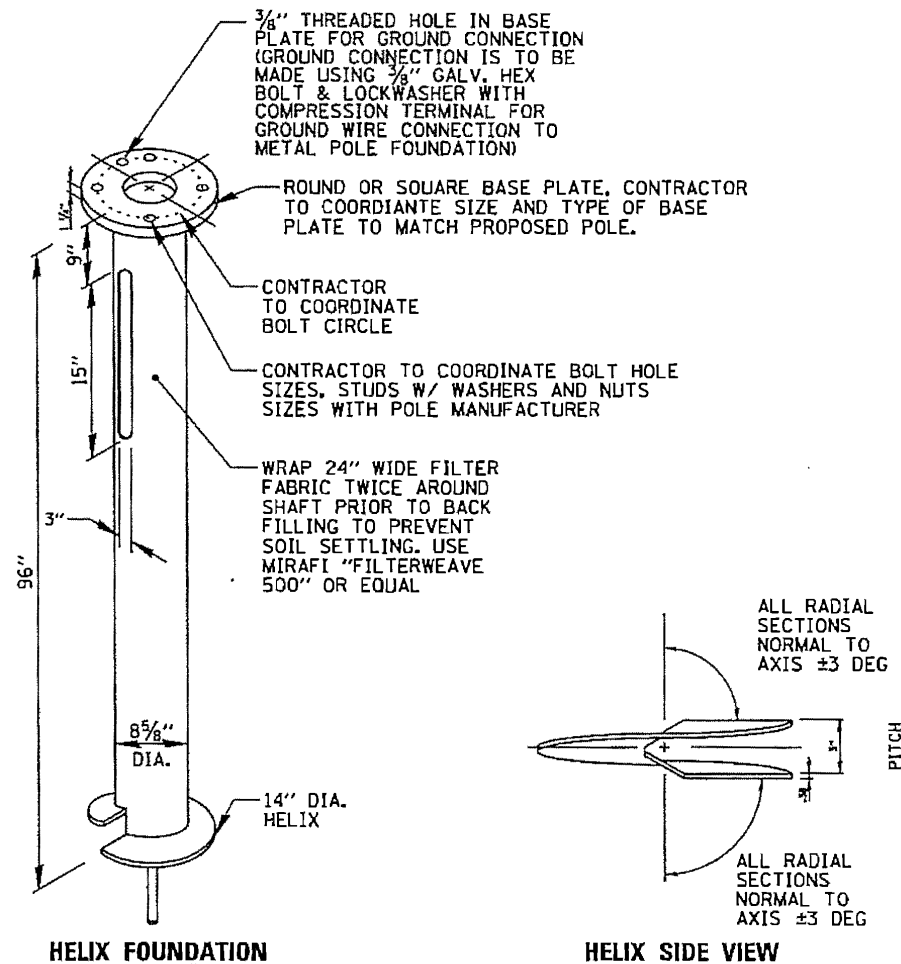
SHAFT: ASTM A252 (LATEST REVISION) GRADE 2, STEEL PIPE PILES. ALT. MATERIAL: ASTM A53 (LATEST REVISION) TYPE E OR S, GRADE B, STEEL PIPE OR ASTM A500 (LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBING.

HELIX: ASTM A635 (LATEST REVISION) $\frac{3}{8}$ " THICK HOT ROLLED STEEL PLATE OR COIL.

PILOT POINT: ASTM A575 (LATEST REVISION) $1\frac{1}{4}$ " DIA. HOT ROLLED STEEL BAR.

BOLTS: 1" DIA. HOT DIP GALVANIZED STUDS IN ACCORDANCE WITH AASHTO M314 OR ASTM F1554.

10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN $\frac{1}{2}$ " LETTERS AND DATE CODE IN $\frac{1}{4}$ " LETTERS.



STANDARD DETAIL

METAL HELIX FOUNDATION

Village of Algonquin Specifications & Details Guide

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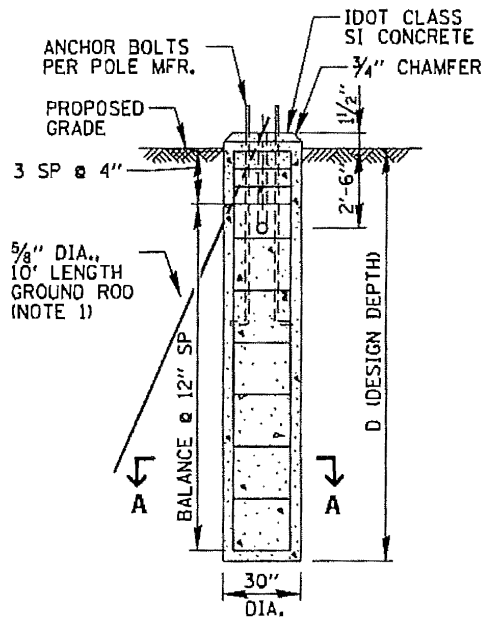
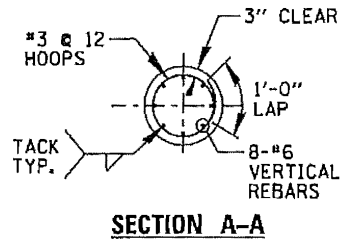
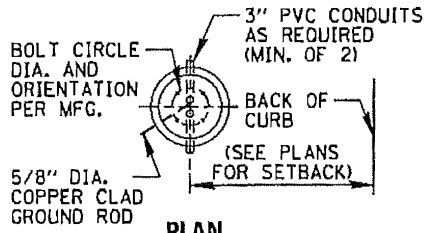
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SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY ($Q_u=0.375$ TON/SF)	13'-0"
MEDIUM CLAY ($Q_u=0.75$ TON/SF)	9'-6"
STIFF CLAY ($Q_u=1.50$ TON/SF)	7'-0"
LOOSE SAND ($\phi=34^\circ$)	9'-0"
MEDIUM SAND ($\phi=37.5^\circ$)	8'-3"
DENSE SAND ($\phi=40^\circ$)	7'-9"

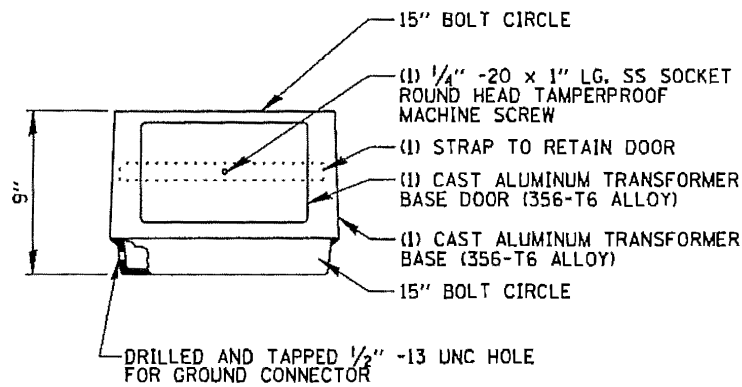
NOTES:

1. GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
2. FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.

STANDARD DETAIL	
CONCRETE FOUNDATION DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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NOTES:

1. BEFORE INSTALLATION OF BREAKAWAY BASE, USER SHOULD CONSULT WITH AUTHORIZED DISTRIBUTOR REGARDING USERS PROPOSED APPLICATION, LOAD REQUIREMENTS AND INSTALLATION METHODS. FAILURES CAN RESULT FROM USERS MISAPPLICATION OR IMPROPER INSTALLATION. TO APPROACH OPTIMUM STATIC LOADS, USE THE LARGEST POSSIBLE BOLT CIRCLES. SHIMS SHALL NOT BE ALLOWED.
2. SHALL BE FACTORY PAINTED BLACK IF UTILIZED IN HISTORIC DISTRICT AND UNPAINTED IN COMMERCIAL AND COMMERCIAL COLLECTOR ROADWAYS.

SPECIAL USE DETAIL

TRANSFORMER BASE DETAIL

Village of Algonquin Specifications & Details Guide

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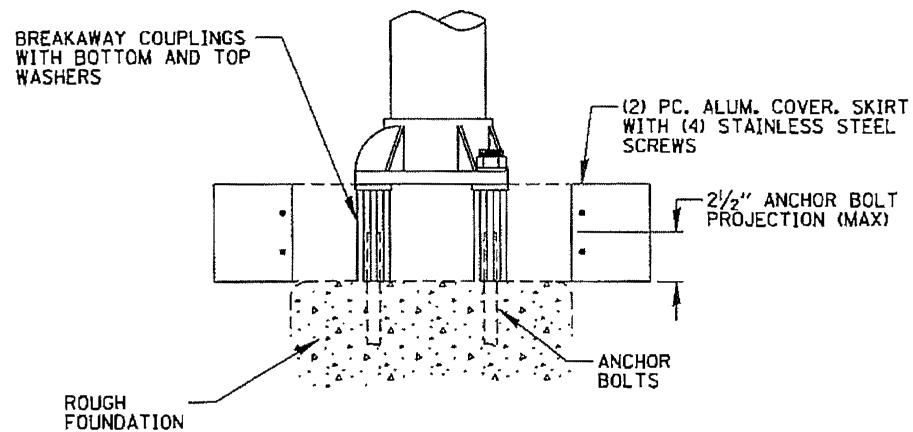
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NOTES:

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SPECIAL USE DETAIL

BREAKAWAY COUPLING DETAIL

Village of Algonquin Specifications & Details Guide

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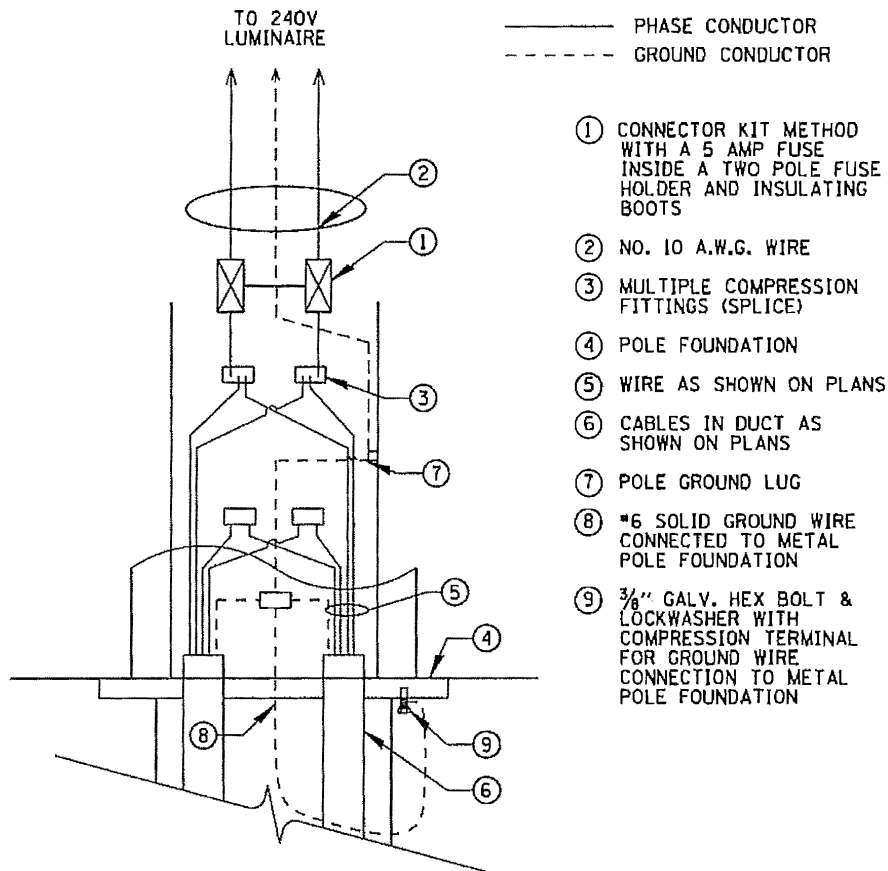
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STANDARD DETAIL

HANDHOLE WIRING DIAGRAM

Village of Algonquin Specifications & Details Guide

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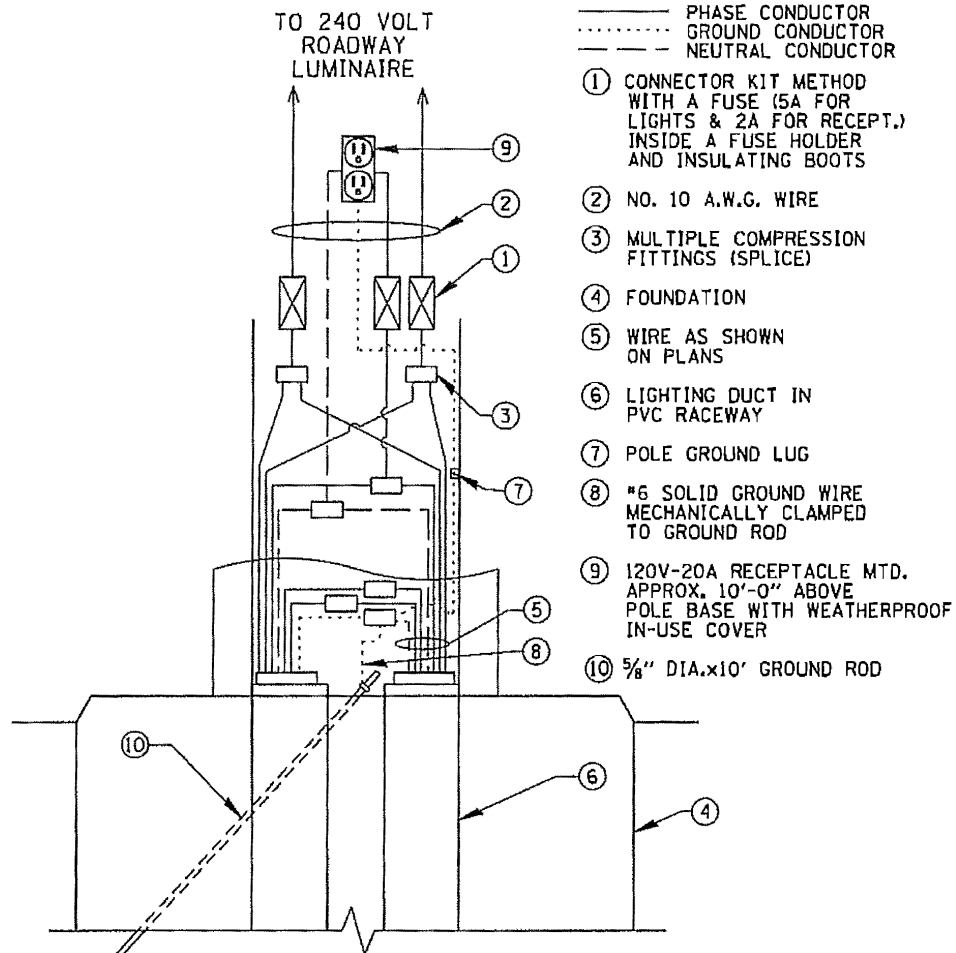
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HISTORIC DISTRICT/PARKS LIGHTING DETAIL

HANDHOLE WIRING DIAGRAM

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Drawn By: CBBEL

Revision Date 4/7/2015

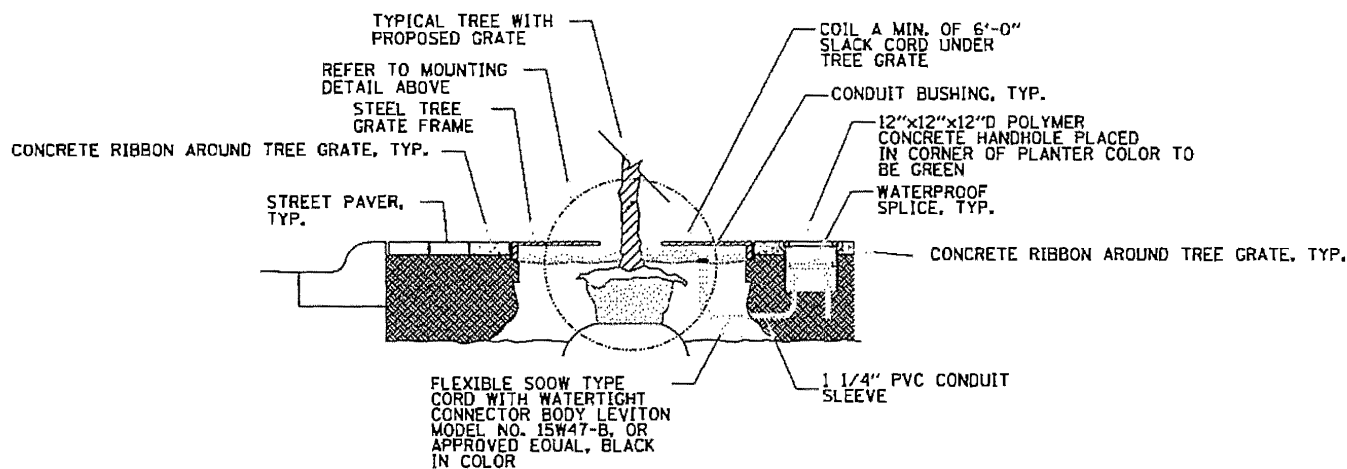
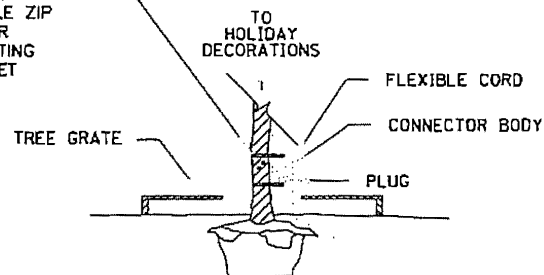
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INDUSTRIAL TYPE,
REMOVAL AND
REUSABLE ZIP
TIES FOR
SUPPORTING
CORD SET



THE PROPOSED WATERTIGHT CORD CONNECTORS SHOWN SHALL BE USED IN CONJUNCTION WITH ONLY CORRESPONDING LEVITON WATERTIGHT PLUG MODEL NO. 14W47-B, BLACK IN COLOR, RATED IN-USE PER NEC.

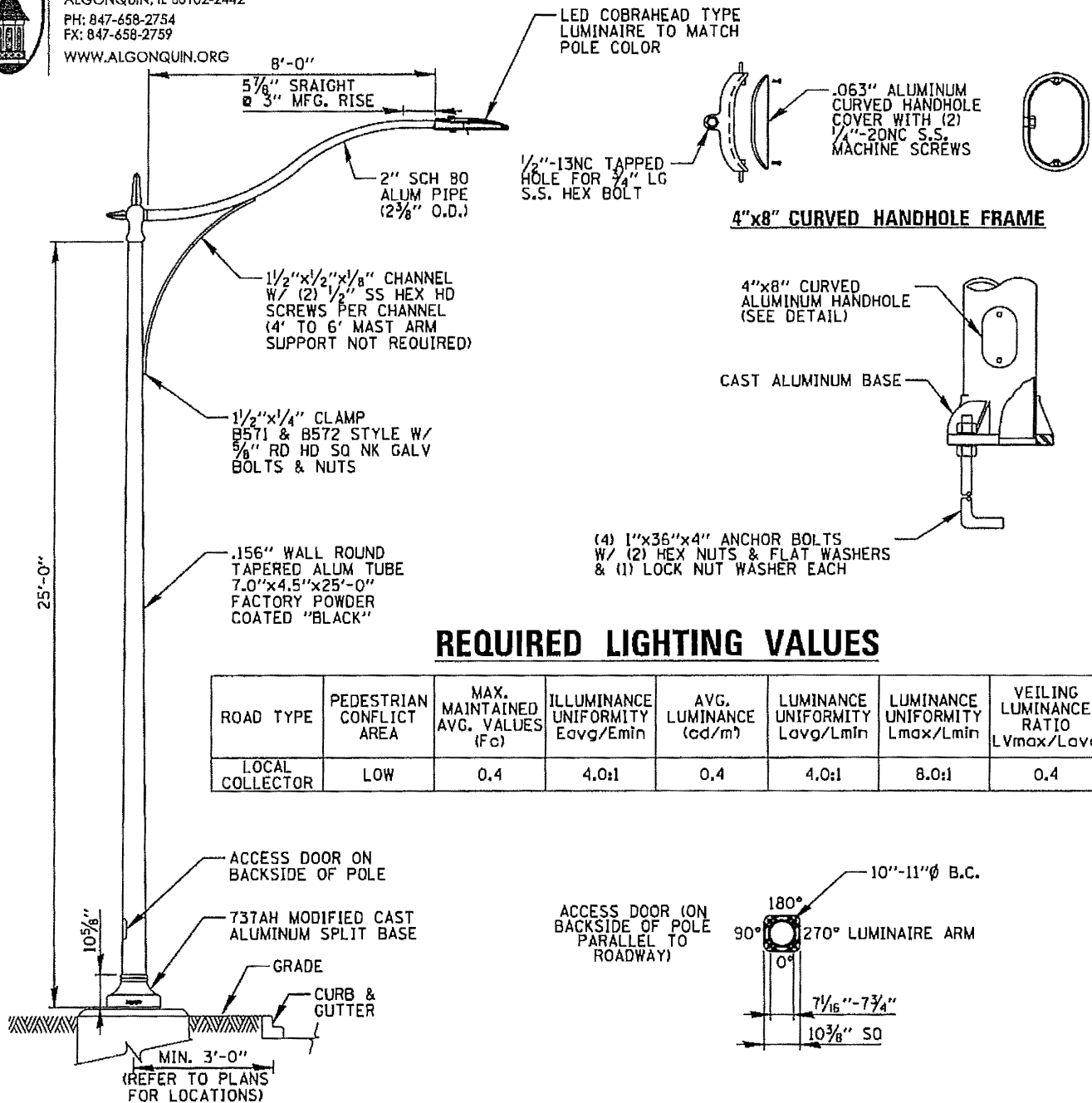
PROVIDE A RECEPTACLE IN ALL TREE GRATES.

MOUNTING DETAIL FOR IN USE SERVICE

URBAN TREE PLANTING WELL WITH ELECTRICAL OUTLET	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/8/2015
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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO Lvmax/Lavg
LOCAL COLLECTOR	LOW	0.4	4.0:1	0.4	4.0:1	8.0:1	0.4

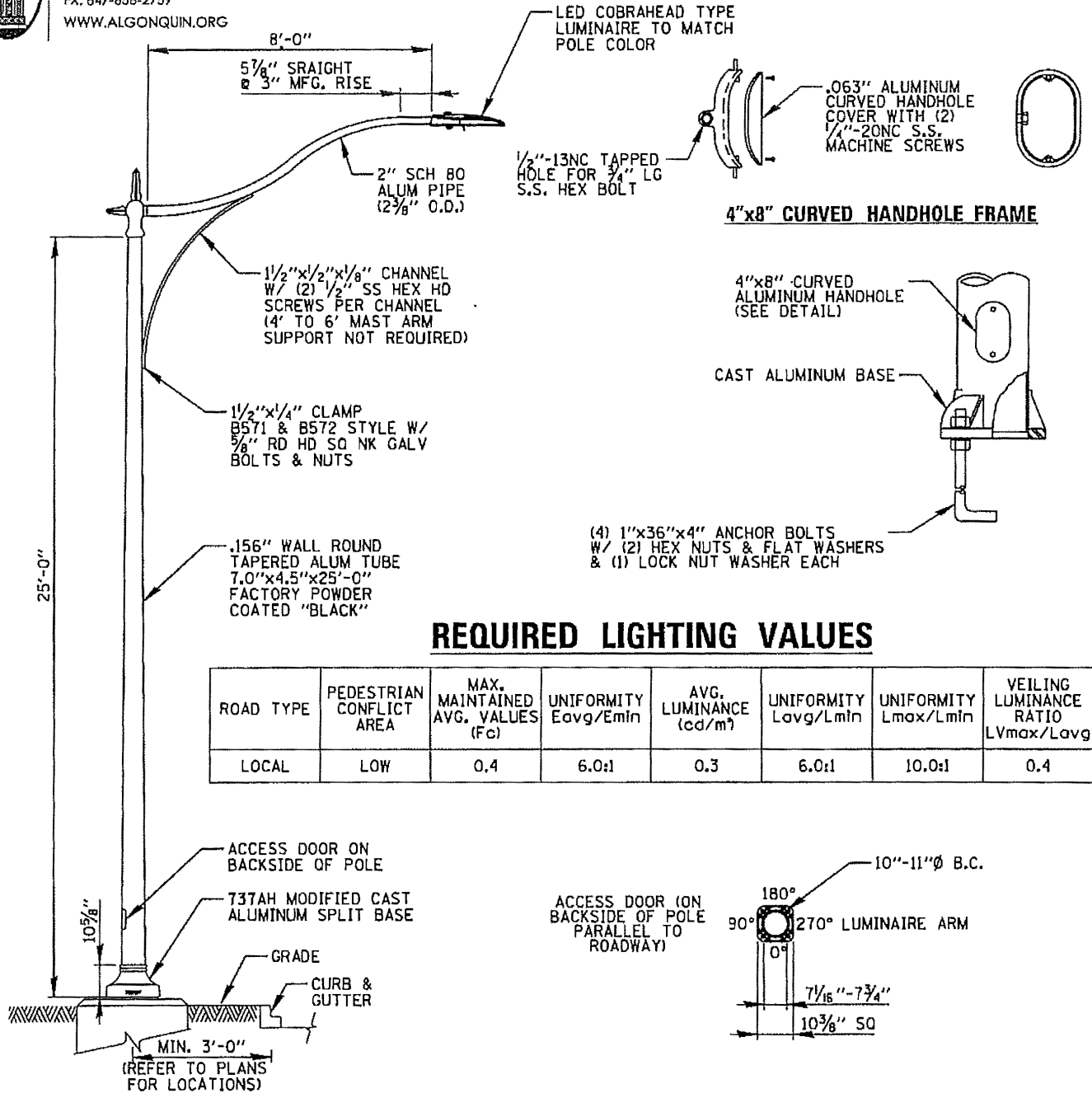
NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE.
3. ALL LUMINAIRES SHALL HAVE A MULTI-TAP BALLAST WIRED FOR 240 VOLTS OPERATION.
4. LIGHT POLE SHALL BE U/L LISTED.
5. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.

Local Collector Roadway	
LIGHT STANDARD AND LUMINAIRE POLE DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. VALUES (Fc)	UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m²)	UNIFORMITY Lavg/Lmin	UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO LVmax/Lavg
LOCAL	LOW	0.4	6.0:1	0.3	6.0:1	10.0:1	0.4

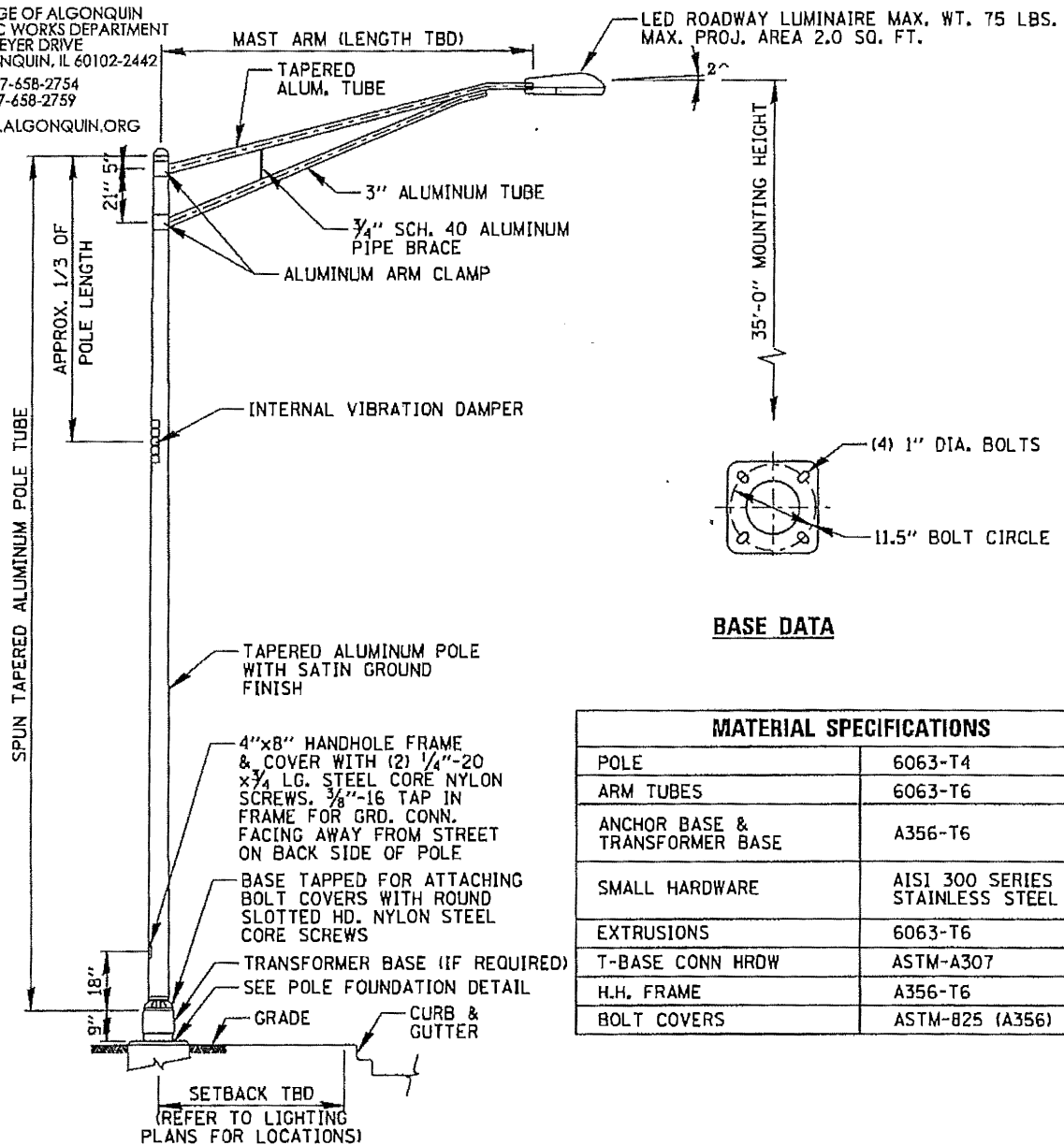
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Local Roadway	
LIGHT STANDARD AND LUMINAIRE POLE DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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BASE DATA

MATERIAL SPECIFICATIONS	
POLE	6063-T4
ARM TUBES	6063-T6
ANCHOR BASE & TRANSFORMER BASE	A356-T6
SMALL HARDWARE	AISI 300 SERIES STAINLESS STEEL
EXTRUSIONS	6063-T6
T-BASE CONN HRDW	ASTM-A307
H.H. FRAME	A356-T6
BOLT COVERS	ASTM-825 (A356)

REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO LVmax/Lavg
COMMERCIAL	LOW	0.6	4.0:1	0.4	4.0:1	8.0:1	0.4

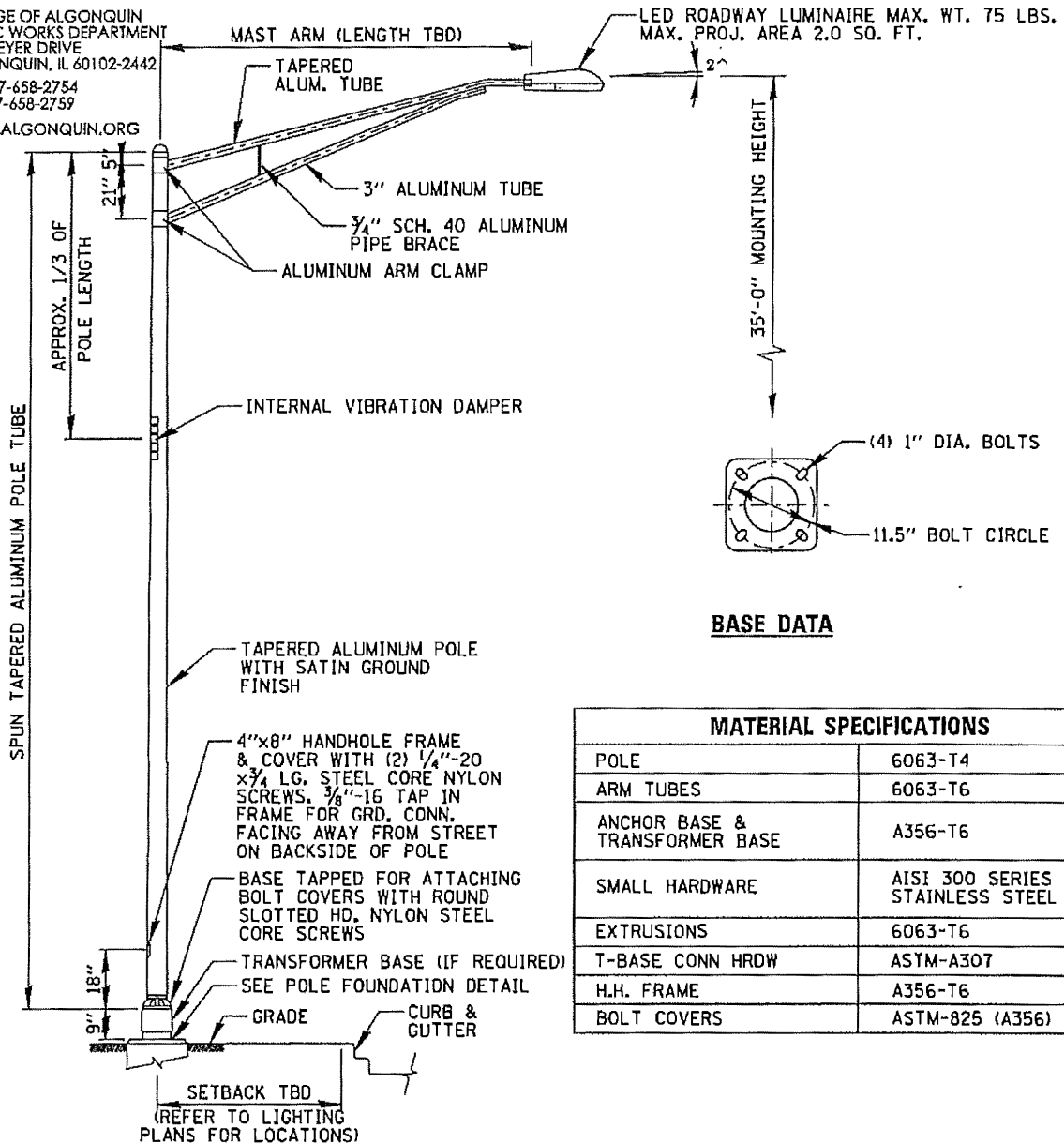
NOTES:

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2. THE LIGHT STANDARD SHALL MEET THE ILLUMINATION REQUIREMENTS AS SPECIFIED IN THE LUMINAIRE PERFORMANCE TABLES IN THE SPECIFICATIONS. ALL LUMINAIRES SHALL HAVE A MULTI-TAP BALLAST WIRED FOR 240 VOLTS OPERATION.
3. ALL LIGHT STANDARDS SHALL BE FROM THE SAME MANUFACTURER, OR APPROVED EQUAL.
4. LIGHT POLE SHALL BE U/L LISTED.
5. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.

Commercial Roadway	
LIGHT STANDARD AND LUMINAIRE DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
Approved By: Shawn M. Hurtig	Effective Date 05/01/2015



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BASE DATA

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POLE	6063-T4
ARM TUBES	6063-T6
ANCHOR BASE & TRANSFORMER BASE	A356-T6
SMALL HARDWARE	AISI 300 SERIES STAINLESS STEEL
EXTRUSIONS	6063-T6
T-BASE CONN HRDW	ASTM-A307
H.H. FRAME	A356-T6
BOLT COVERS	ASTM-825 (A356)

REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m ²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO L _v max/Lavg
COMMERCIAL COLLECTOR	MEDIUM	1.3	3.0:1	0.9	3.0:1	5.0:1	0.3

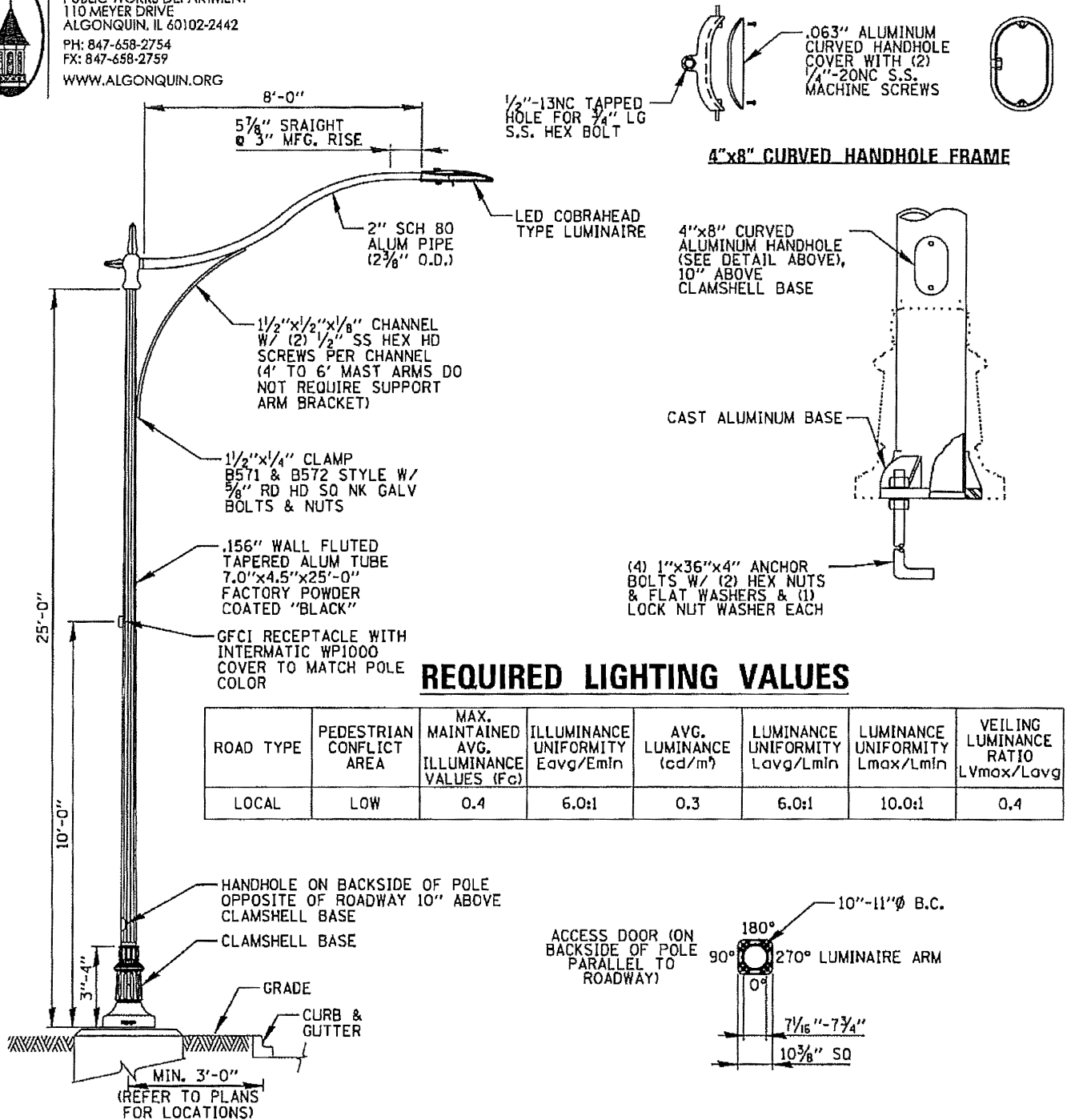
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Commercial Collector Roadway	
LIGHT STANDARD AND LUMINAIRE DETAIL	
Village of Algonquin Specifications & Details Guide	
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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO Lvmax/Lavg
LOCAL	LOW	0.4	6.0:1	0.3	6.0:1	10.0:1	0.4

NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
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HISTORIC DISTRICT LIGHTING DETAIL

LOCAL ROADWAY POLE DETAIL

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

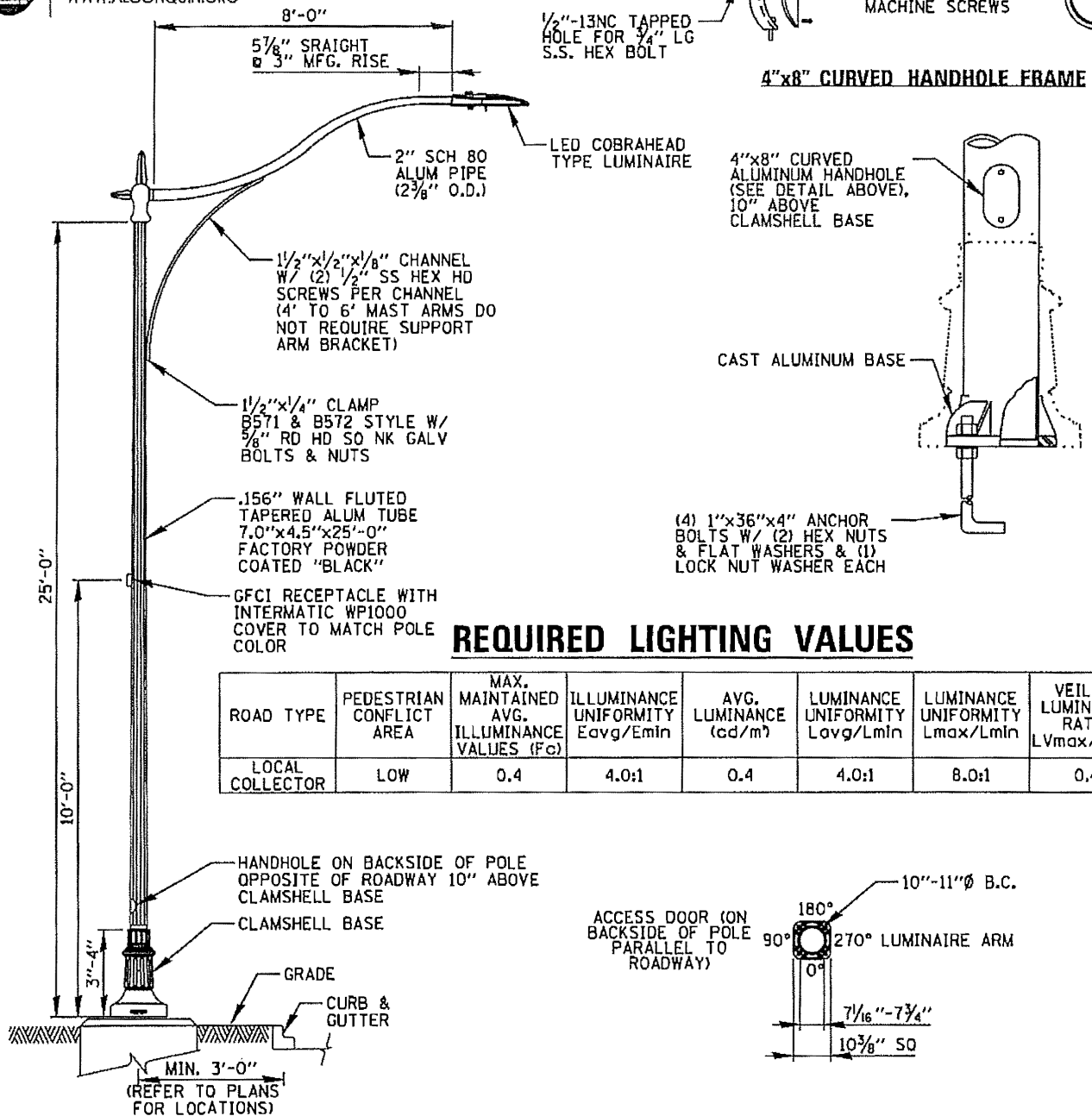
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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO LVmax/Lavg
LOCAL COLLECTOR	LOW	0.4	4.0:1	0.4	4.0:1	8.0:1	0.4

NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
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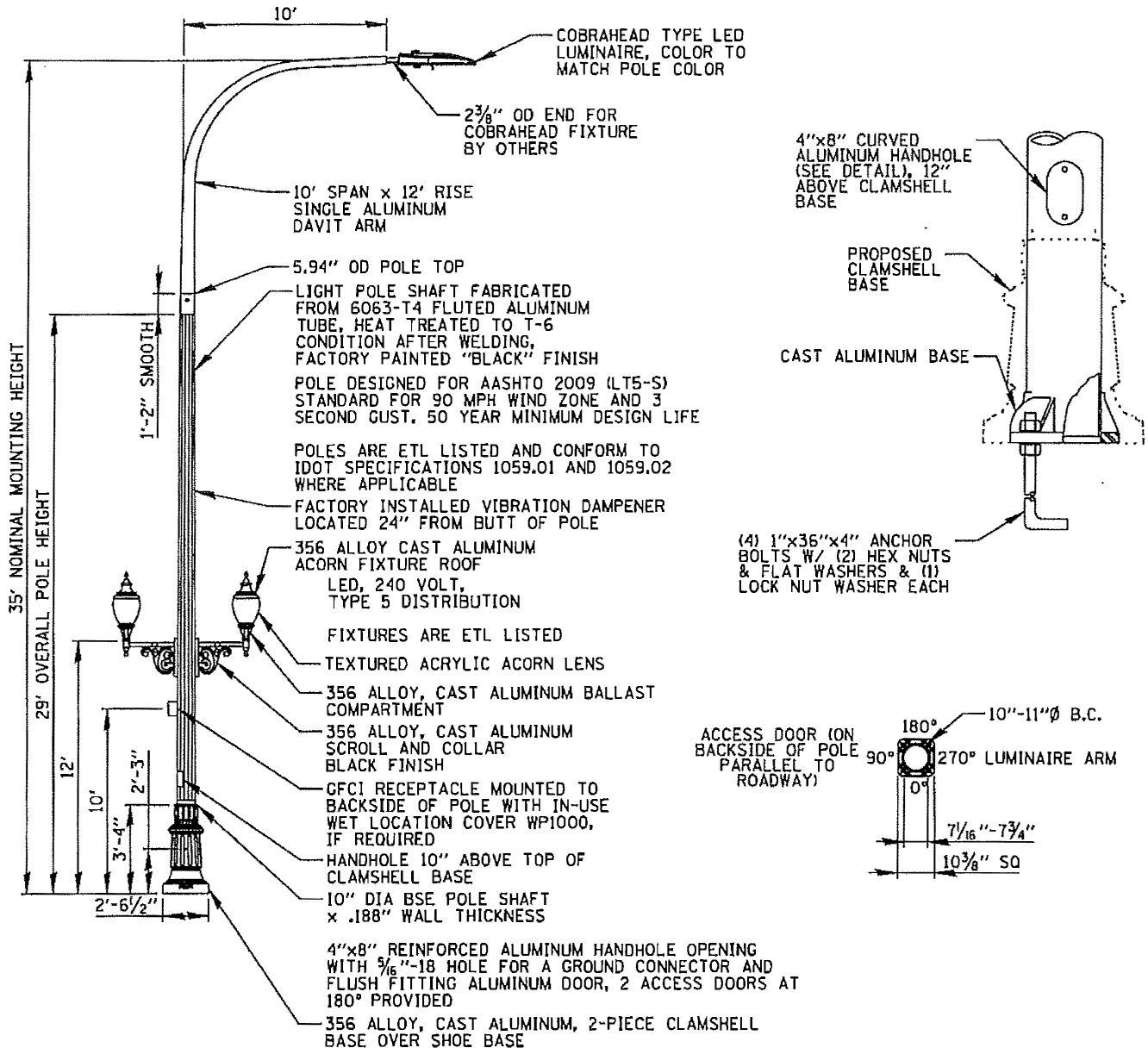
HISTORIC DISTRICT LIGHTING DETAIL	
LOCAL COLLECTOR ROADWAY POLE DETAIL	
Village of Algonquin Specifications & Details Guide	
Drawn By: CBBEL	Revision Date 4/7/2015
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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m ²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO L _{vmax} /L _{avg}
COMMERCIAL	LOW	0.6	4.0:1	0.4	4.0:1	8.0:1	0.4



NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
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HISTORIC DISTRICT LIGHTING DETAIL

COMMERCIAL ROADWAY POLE DETAIL

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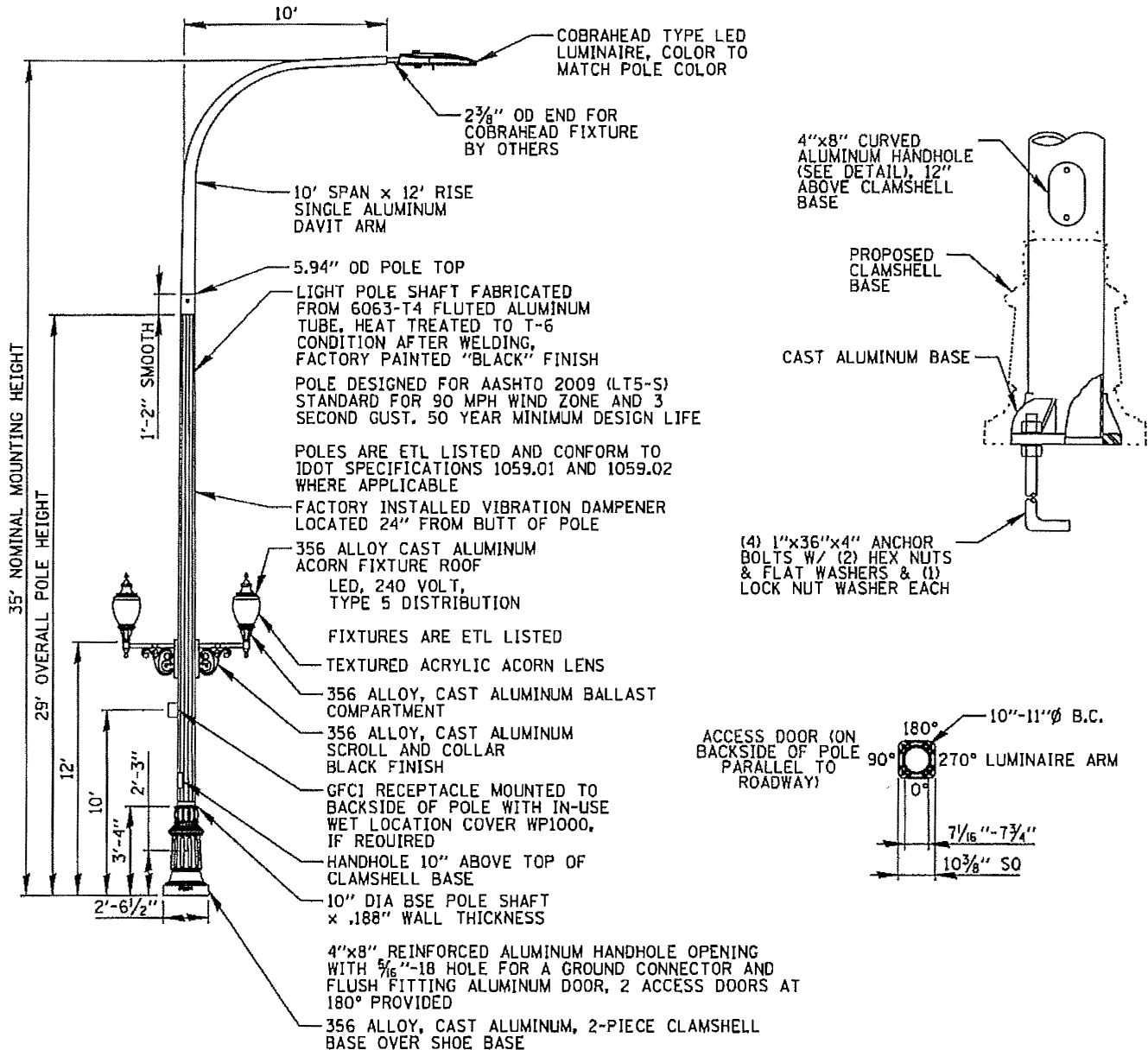
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REQUIRED LIGHTING VALUES

ROAD TYPE	PEDESTRIAN CONFLICT AREA	MAX. MAINTAINED AVG. ILLUMINANCE VALUES (Fc)	ILLUMINANCE UNIFORMITY Eavg/Emin	AVG. LUMINANCE (cd/m ²)	LUMINANCE UNIFORMITY Lavg/Lmin	LUMINANCE UNIFORMITY Lmax/Lmin	VEILING LUMINANCE RATIO L _{vmax} /L _{avg}
COMMERCIAL COLLECTOR	MEDIUM	1.3	3.0:1	0.9	3.0:1	5.0:1	0.3



NOTES:

1. LIGHT POLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE.
3. ALL LUMINAIRES SHALL HAVE A MULTI-TAP BALLAST WIRED FOR 240 VOLTS OPERATION.
4. LIGHT POLE SHALL BE U/L LISTED.
5. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.

N.T.S.

HISTORIC DISTRICT LIGHTING DETAIL

COMMERCIAL COLLECTOR ROADWAY POLE DETAIL

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

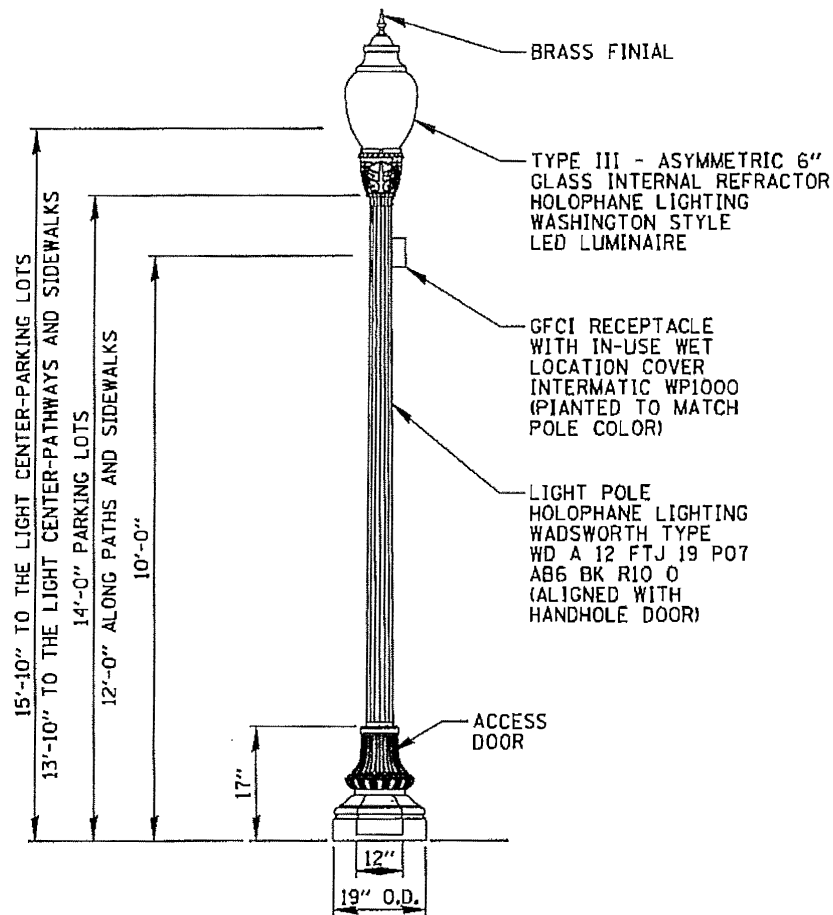
Revision Date 4/7/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT
110 MEYER DRIVE
ALGONQUIN, IL 60102-2442
PH: 847-658-2754
FX: 847-658-2759
WWW.ALGONQUIN.ORG



NOTES:

1. ACORN LUMINAIRES CANNOT BE INCLUDED IN ROADWAY PHOTOMETRIC CALCULATIONS, HOWEVER ACORN LUMINAIRES CAN BE INCLUDED IN SITE LIGHTING PHOTOMETRIC CALCULATIONS.
2. ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO ALL BOLTED AREAS DURING INSTALLATION.

HISTORIC DISTRICT/PARKS LIGHTING DETAIL

ORNAMENTAL POST TOP POLE DETAIL

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

Revision Date 4/7/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



PROPOSAL SUBMITTED BY		
H& H Electric Co.		
Contractor's Name		
2830 Commerce St.		
Street		P.O. Box
Franklin Park	IL	60131
City	State	Zip Code

STATE OF ILLINOIS

COUNTY McHenry & Kane

Village of Algonquin

(Name of City, Village, Town or Road District)

FOR THE IMPROVEMENT OF

STREET NAME OR ROUTE 2018 Street Light Maintenance

SECTION NO. 18-00000-00-GM

TYPES OF FUNDS MFT

☒ SPECIFICATIONS (required)

☐ PLANS (required)

☐ CONTRACT BOND (when required)

For Municipal Projects
Submitted/Approved/Passed

☐ Mayor ☐ President of Board of Trustees ☐ Municipal Official

Date

Department of Transportation

☐ Concurrence in approval of award

Regional Engineer

Date

For County and Road District Projects
Submitted/Approved

Highway Commissioner

Date

Submitted/Approved

County Engineer/Superintendent of Highways

Date

County McHenry & Kane
Local Public Agency Village of Algonqui
Section Number 18-00000-00-GM
Route 2018 Street Light

1. THIS AGREEMENT, made and concluded the 15th day of May, 2018,
Month and Year

between the Village of Algonquin
acting by and through its President & Board of Trustees known as the party of the first part, and
H&H Electric Co. his/their executors, administrators, successors or assigns,
known as the party of the second part.

2. Witnesseth: That for and in consideration of the payments and agreements mentioned in the Proposal hereto attached, to be made and performed by the party of the first part, and according to the terms expressed in the Bond referring to these presents, the party of the second part agrees with said party of the first part at his/their own proper cost and expense to do all the work, furnish all materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of the Engineer under it.

3. And it is also understood and agreed that the LPA Formal Contract Proposal, Special Provisions, Affidavit of Illinois Business Office, Apprenticeship or Training Program Certification, and Contract Bond hereto attached, and the Plans for Section 18-00000-00-GM, in Village of Algonquin, approved by the Illinois Department of Transportation on March 12, 2018, are essential documents of this
Date
contract and are a part hereof.

4. IN WITNESS WHEREOF, The said parties have executed these presents on the date above mentioned.

Attest: The Village of Algonquin

Clerk By _____
Party of the First Part

(Seal)

(If a Corporation)

Corporate Name _____

By _____
President Party of the Second Part

(If a Co-Partnership)

Attest: _____

Secretary

Partners doing Business under the firm name of

Party of the Second Part

(If an individual)

Party of the Second Part



Route 2018 Street Light
County McHenry & Kane
Local Agency Village of Algonqui
Section 18-00000-00-GM

We, _____

a/an) ☐ Individual ☐ Co-partnership ☐ Corporation organized under the laws of the State of _____,

as PRINCIPAL, and _____

as SURETY,

are held and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of _____

_____ Dollars (_____), lawful money of the
United States, well and truly to be paid unto said LA, for the payment of which we bind ourselves, our heirs, executors,
administrators, successors, jointly to pay to the LA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said Principal has entered into a written contract with the LA acting through its awarding authority for the construction of work on the above section, which contract is hereby referred to and made a part hereof, as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work and has further agreed to pay all direct and indirect damages to any person, firm, company or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation to whom any money may be due from the Principal, subcontractor or otherwise for any such labor, materials, apparatus, fixtures or machinery so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract, and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the LA and its awarding authority harmless on account of any such damages and shall in all respects fully and faithfully comply with all the provisions, conditions and requirements of said contract, then this obligation to be void; otherwise to remain in full force and effect.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this _____ day of _____ A.D. _____

PRINCIPAL

_____ (Company Name)	_____ (Company Name)
By: _____ (Signature & Title)	By: _____ (Signature & Title)
Attest: _____ (Signature & Title)	Attest: _____ (Signature & Title)

(If PRINCIPAL is a joint venture of two or more contractors, the company names and authorized signature of each contractor must be affixed.)

STATE OF ILLINOIS,

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

SURETY

_____ (Name of Surety)	By: _____ (Signature of Attorney-in-Fact)
---------------------------	--

STATE OF ILLINOIS.

(SEAL)

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that

(Insert names of individuals signing on behalf of SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this _____ day of _____ A.D. _____

My commission expires _____

Notary Public (SEAL)

Approved this _____ day of _____, A.D. _____

Attest:

_____ Clerk	_____ (Awarding Authority)
_____ (Chairman/Mayor/President)	

RETURN WITH BID

NOTICE TO BIDDERS

County McHenry
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Lighting and Traffic Signal Maintenance

Sealed proposals for the improvement described below will be received at the office of Algonquin Village Hall,
2200 Harnish Drive, Algonquin, IL 60102 until 10:15 am on April 24, 2018
Address Time Date

Sealed proposals will be opened and read publicly at the office of Algonquin Village Hall,
2200 Harnish Drive, Algonquin, IL 60102 at 10:15 am on April 24, 2018
Address Time Date

DESCRIPTION OF WORK

Name 2018 Lighting and Traffic Signal Maintenance Length: N/A feet (N/A miles)
Location Various locations within the Village of Algonquin, McHenry County, Illinois
Proposed Improvement Maintain 22 controller cabinets and non-routine repair work to carry out emergency repairs.

1. Plans and proposal forms will be available in the office of The Village of Algonquin Village Hall, 2200 Harnish Drive,
Algonquin, IL, 60102 for the sum of Ten Dollars (\$10.00) (Electronic Only). Contact: Lee Fell (847-823-0500).
Address

2. ☒ Prequalification

If checked, the 2 low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57), in duplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and one original with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:

- a. BLR 12200: Local Public Agency Formal Contract Proposal
- b. BLR 12200a Schedule of Prices
- c. BLR 12230: Proposal Bid Bond (if applicable)
- d. BLR 12325: Apprenticeship or Training Program Certification (do not use for federally funded projects)
- e. BLR 12326: Affidavit of Illinois Business Office



**Illinois Department
of Transportation**

Certificate of Eligibility

H & H Electric Co.

Contractor No 2550

2830 Commerce Street Franklin Park, IL 60131-2927

WHO HAS FILED WITH THE DEPARTMENT AN APPLICATION FOR PREQUALIFICATION STATEMENT OF EXPERIENCE, EQUIPMENT AND FINANCIAL CONDITION IS HEREBY QUALIFIED TO BID AT ANY OF DEPARTMENT OF TRANSPORTATION LETTINGS IN THE CLASSES OF WORK AND WITHIN THE AMOUNT AND OTHER LIMITATIONS OF EACH CLASSIFICATION, AS LISTED BELOW, FOR SUCH PERIOD AS THE UNCOMPLETED WORK FROM ALL SOURCES DOES NOT EXCEED

\$38,371,000.00

014 ELECTRICAL

\$20,650,000

THIS CERTIFICATE OF ELIGIBILITY IS VALID FROM 5/3/2017 TO 4/30/2018 INCLUSIVE, AND SUPERSEDES ANY CERTIFICATE PREVIOUSLY ISSUED, BUT IS SUBJECT TO REVISION OR REVOCATION, IF AND WHEN CHANGES IN THE FINANCIAL CONDITION OF THE CONTRACTING FIRM OR OTHER FACTS JUSTIFY SUCH REVISIONS OR REVOCATION. ISSUED AT SPRINGFIELD, ILLINOIS ON 5/3/2017.

Tim Kell

Engineer of Construction

RETURN WITH BID

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

RETURN WITH BID

PROPOSAL

County McHenry
 Local Public Agency Village of Algonquin
 Section Number 18-00000-00-GM
 2018 Lighting and Traffic Signal
 Route Maintenance

- Proposal of H&H ELECTRIC CO.
2830 COMMERCE STREET, FRANKLIN PARK, ILLINOIS 60131
 for the improvement of the above section by the construction of Maintain 22 controller cabinets and non-routine repair work to carry out emergency repairs.
- a total distance of N/A feet, of which a distance of N/A feet, (N/A miles) are to be improved.
- The plans for the proposed work are those prepared by Christopher B. Burke Engineering, Ltd. and approved by the Department of Transportation on _____
- The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
- The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
- The undersigned agrees to complete the work within N/A working days or by N/A unless additional time is granted in accordance with the specifications.
- A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals, will be required. Bid Bonds will not be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:
Timothy Schloneger Village Manager of Village of Algonquin
 The amount of the check is 5% of the Bid amount (_____).
- In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties, which would be required for each individual proposal. If the proposal guaranty check is placed in another proposal, it will be found in the proposal for: Section Number 18-00000-00-GM.
- The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond or check shall be forfeited to the Awarding Authority.
- Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
- A bid will be declared unacceptable if neither a unit price nor a total price is shown.
- The undersigned submits herewith the schedule of prices on BLR 12200a covering the work to be performed under this contract.
- The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12200a, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.

RETURN WITH BID

H&H ELECTRIC CO.


**Illinois Department
of Transportation**

SCHEDULE OF PRICES - BASE BID

County McHenry
 Local Public Agency Village of Algonquin
 Section 18-00000-00-GM
 Route 2010 Lighting and Traffic Signal Maintenance

Schedule for Multiple Bids

Combination Letter	Sections Included in Combinations	Total

 Schedule for Single Bid
 (For complete information covering these items, see plans and specifications)

Bidder's Proposal for BASE BID	\$188,290.78
--------------------------------	--------------

Item No.	Items	Unit	Quantity	Unit Price	Total
A-1	SW Corner of S. Harrison & Route 62	Month	12	\$214.60	\$2,575.20
A-2	NE Corner of Route 31 & Route 62	Month	12	\$214.60	\$2,575.20
A-3	401 Washington St. in Town Park Parking Lot	Month	6 *	\$214.60	\$1,287.60
A-4	123 South Main Street	Month	6 *	\$214.60	\$1,287.60
A-5	211 Washington Street	Month	6 *	\$214.60	\$1,287.60
A-6	101 South Harrison (in Park)	Month	12	\$214.60	\$2,575.20
A-7	201 North Harrison (in Park)	Month	12	\$214.60	\$2,575.20
A-8	Edgewood Drive	Month	12	\$214.60	\$2,575.20
A-9	SW Corner of Huntington Dr. & Route 31	Month	12	\$214.60	\$2,575.20
A-10	NE Corner of County Line & Randall Road	Month	12	\$214.60	\$2,575.20
A-11	2360 Esplanada	Month	12	\$214.60	\$2,575.20
A-12	NW Corner of Beckey Lynn and Dead End	Month	12	\$214.60	\$2,575.20
A-13	Harnish 900' West of Randall on the North Side	Month	12	\$214.60	\$2,575.20
A-14	2641 Millbrook	Month	12	\$214.60	\$2,575.20
A-15	NE Corner of Meyer & Route 62	Month	12	\$214.60	\$2,575.20
A-16	401 Washington in Park Parking Lot	Month	12	\$214.60	\$2,575.20
A-17	2 South Main	Month	12	\$214.60	\$2,575.20
A-18	201 N. Harrison (in Park)	Month	12	\$214.60	\$2,575.20
A-19	801 Circle (in Park)	Month	12	\$214.60	\$2,575.20
A-20	SE Corner of Fairwayview & Wintergreen	Month	12	\$214.60	\$2,575.20
A-21	Kelliher Park on Square Barn Road	Month	12	\$214.60	\$2,575.20
A-22	110 Meyer Drive Public Works	Month	12	\$214.60	\$2,575.20
B-1	Composite Concrete Junction Box	Each	1	\$616.60	\$616.60
B-2	Photocell	Each	1	\$47.40	\$47.40
B-3	Photocell Control Wire, 3/C-#10	Foot	250	\$1.90	\$475.00
B-4	1 1/2" Unit Duct, 4/C #6 XLP/USE-2, Directional Boring	Foot	1000	\$13.70	\$13,700.00
B-5	1 1/4" Unit Duct, 3/C #6 XLP/USE-2, Directional Boring	Foot	1000	\$12.90	\$12,900.00

RETURN WITH BID

Bidder's Proposal for BASE BID						\$188,290.78
Item No.	Items	Unit	Quantity	Unit Price	Total	
B-6	2" Galvanized Steel Conduit, Directional Boring	Foot	1000	\$16.10	\$16,100.00	
B-7	2" Unit Duct, 4/C #4 XLP/USE-2, Directional Boring	Foot	1000	\$15.30	\$15,300.00	
B-8	Remove Electrical Cable from Conduit, Disposal	Foot	1000	\$0.01	\$10.00	
B-9	Electrical Cable in Conduit, 1/C #2	Foot	1000	\$2.50	\$2,500.00	
B-10	Pole Wire, 1/C - #10, feet	Foot	100	\$1.30	\$130.00	
B-11	Lighting Cable Fuse Kit	Each	25	\$106.30	\$2,657.50	
B-12	Ground Rods	Each	10	\$53.70	\$537.00	
B-13	Light Pole, Aluminum, 30 Ft. or Greater MH, 8 to 15 Ft.MA	Each	10	\$1,938.70	\$19,387.00	
B-14	Luminaire, Sodium Vapor, Horizontal Mount, 400 Watt	Each	10	\$361.10	\$3,611.00	
B-15	Luminaire, Sodium Vapor, Horizontal Mount, 250 Watt	Each	10	\$359.30	\$3,593.00	
B-16	Luminaire, Sodium Vapor, Horizontal Mount, 150 Watt	Each	10	\$358.10	\$3,581.00	
B-17	Luminaire, Sodium Vapor, Horizontal Mount, 100 Watt	Each	10	\$356.30	\$3,563.00	
B-18	Luminaire, LED, Horizontal Mount	Each	10	\$455.60	\$4,556.00	
B-19	Relamp Luminaire, Sodium Vapor, 100 Watt	Each	50	\$35.90	\$1,795.00	
B-20	Relamp Luminaire, Sodium Vapor, 150 Watt	Each	50	\$35.90	\$1,795.00	
B-21	Relamp Luminaire, Sodium Vapor, 250 Watt	Each	50	\$35.90	\$1,795.00	
B-22	Relamp Luminaire, Sodium Vapor, 400 Watt	Each	50	\$35.90	\$1,795.00	
B-23	Removal of Luminaire, Salvage	Each	10	\$39.80	\$398.00	
B-24	Removal of Luminaire, Disposal	Each	10	\$39.80	\$398.00	
B-25	Temporary Sign Support	Each	100	\$0.01	\$1.00	
B-26	Traffic Control and Protection, Complete	L Sum	1	\$330.00	\$330.00	
B-27	Street Lighting Controller	Each	1	\$5,912.10	\$5,912.10	
B-28	PCC Sidewalk, 5", Removal and Replacement	Sq Ft	25	\$26.40	\$660.00	
B-29	Street Lighting Handhole	Each	1	\$1,329.00	\$1,329.00	
B-30	Non-Routine Work	Hour	8	\$143.40	\$1,147.20	
B-31	Non-Routine Work, Overtime Rate	Hour	4	\$215.10	\$860.40	
B-32	Aerial Truck	Hour	8	\$72.00	\$576.00	
B-33	Non-Routine Work, Trencher	Hour	8	\$0.01	\$0.08	
B-34	Non-Routine Work, Compressor	Hour	8	\$0.01	\$0.08	
B-35	Non-Routine Work, Backhoe	Hour	8	\$0.01	\$0.08	
B-36	Non-Routine Work, Concrete Saw	Hour	8	\$0.01	\$0.08	
B-37	Non-Routine Work, Service Truck	Hour	8	\$0.01	\$0.08	
B-38	Non-Routine Work, Dump Truck	Hour	8	\$0.01	\$0.08	
B-39	Light Pole Foundation, Concrete	Foot	10	\$135.60	\$1,356.00	
B-40	Street Lighting Controller Foundation, Install Only	Each	1	\$956.00	\$956.00	
B-41	Removal of Street Light Pole, Disposal	Each	1	\$315.50	\$315.50	
B-42	Removal of Street Light Pole, Salvage	Each	1	\$315.50	\$315.50	
B-43	Light Pole, Ornamental, Post Top Mounted	Each	1	\$4,380.70	\$4,380.70	
C-1	YEAR 1	Qtrs	4	\$1,529.70	\$6,118.80	
* Maintenance of these systems will begin on January 1, 2019. After completion of Main Street Streetscape Project.				Bidder's Proposal for BASE BID		\$188,290.78

RETURN WITH BID

CONTRACTOR CERTIFICATIONS

County	McHenry
Local Public Agency	Village of Algonquin
Section Number	18-00000-00-GM
Route	2018 Lighting and Traffic Signal Maintenance

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax. Making a false statement voids the contract and allows the Department to recover all amounts paid to the individual or entity under the contract in a civil action.

2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the Department by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter of record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be cancelled.



Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:

(Name, legal status and address)

H&H Electric Company
2830 Commerce Street
Franklin Park, IL 60131

SURETY:

(Name, legal status and principal place of business)

The Ohio Casualty Insurance Company
62 Maple Avenue
Keene, NH 03431

Mailing Address for Notices

The Ohio Casualty Insurance Company
Attention: Surety Claims Department
1001 4th Avenue, Suite 1700
Seattle, WA 98154

OWNER:

(Name, legal status and address)

Village of Algonquin
2200 Harnish Drive
Algonquin, IL 60102

This document has important legal consequences.

Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: 5% of Bid Amount Five Percent of Bid Amount

PROJECT:

(Name, location or address, and Project number, if any)

2018 Lighting and Traffic Signal Maintenance

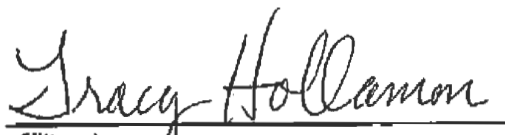
The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 19th day of April , 2018


(Witness)


(Witness)

H&H Electric Company

(Principal)

(Seal)


(Title) Louie S. Veneziano, President

The Ohio Casualty Insurance Company

(Surety)


(Title) William Brian Hollamon, Attorney-in-Fact

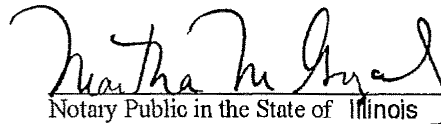
ACKNOWLEDGMENT BY SURETY

STATE OF Illinois }
County of Cook } ss.

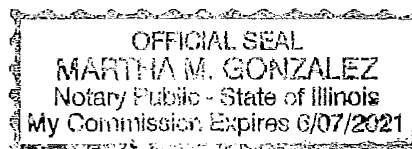
On this 19th day of April, 2018, before me personally
appeared William Brian Hollamon, known to me to be the Attorney-in-Fact of
The Ohio Casualty Insurance Company

_____, the corporation
that executed the within instrument, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in the aforesaid County, the day and
year in this certificate first above written.



Notary Public in the State of Illinois
County of Cook



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 7760234

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, William Brian Hollamon

all of the city of Schaumburg, state of IL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 9th day of May, 2017



STATE OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 9th day of May, 2017, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS - Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 19th day of April, 2018



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability For the Letting of 2018 Lighting and Traffic Signal Maintenance

Instructions: Complete this form by either typing or using black ink.
"Authorization to Bid" will not be issued unless both sides of this form are
completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owner's estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	(C-1344)	(C-1359)	(C-1380)	(C-1391)	Awards Pending	
Contract Number	SECTION 09-00183-00- FP	I.D.O.T. 60L71	CH 35 (135th Street)	I.D.O.T. 62721		
Contract With	CAPITOL CEMENT COMPANY, INC.	JUDLAU OHL GROUP	P.T. FERRO	GALLAGHER ASPHALT		
Estimated Completion Date	11/30/18	06/30/19	06/30/18	05/31/18		
Total Contract Price	560,230.22	2,641,901.15	384,183.40	202,287.26		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor						0.00
Uncompleted Dollar Value if Firm is the Subcontractor	438,746.86	1,912,545.36	17,592.94	47,154.71		2,416,039.87
Total Value of All Work						2,416,039.87

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	438,746.86	1,912,545.36	17,592.94	47,154.71	0.00	2,416,039.87
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	438,746.86	1,912,545.36	17,592.94	47,154.71	0.00	2,416,039.87

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

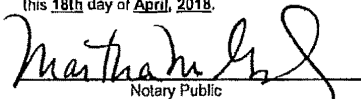
For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1344)	(C-1359)	(C-1380)	(C-1391)	Awards Pending
Subcontractor	HAMPTON, LENZINI, & RENWICK, INC.	GEWALT HAMILTON & ASSOCIATES, INC.			
Type of Work	OPTIMIZATION AND TRAFFIC SIGNAL TIMINGS	TIMINGS			
Subcontract Price	400.00	2,460.00			
Amount Uncompleted	0.00	0.00			
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
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Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	0.00	0.00	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

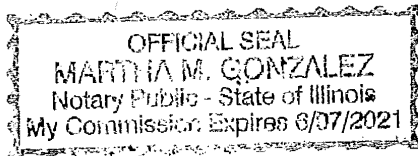
Subscribed and sworn to before me

this 18th day of April, 2018.


Notary Public

My commission expires: 6/7/2021

(Notary Seal)



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed 

Company H&H Electric Co.

Address 2830 Commerce Street

Franklin Park, Illinois 60131



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability For the Letting of 2018 Lighting and Traffic Signal Maintenance

Instructions: Complete this form by either typing or using black ink.
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completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

List below all work you have under contract as either a prime contractor or a subcontractor. It is required to include all pending low bids not yet awarded or rejected. In a joint venture, list only that portion of the work which is the responsibility of your company. The uncompleted dollar value is to be based upon the most recent engineer's or owner's estimate, and must include work subcontracted to others. If no work is contracted, show NONE.

	(C-1393)	(C-1397)	(C-1402)	(C-1405)	Awards Pending
Contract Number	LINCOLNWOOD	I.D.O.T. 60H21	Section 08-00042-00-WR	N/A	
Contract With	VILLAGE OF LINCOLNWOOD	HERLIHY MID-CONTINENT	AUSTIN TYLER CONSTRUCTION, LLC	VILLAGE OF OAK PARK	
Estimated Completion Date	05/31/18	06/30/18	05/31/18	05/31/18	
Total Contract Price	1,153,875.45	365,323.31	384,065.78	307,826.03	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	15,000.00				15,000.00
Uncompleted Dollar Value if Firm is the Subcontractor		55,540.29	5,899.00	92,181.32	2,569,660.48
Total Value of All Work					2,584,660.48

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

	Accumulated Totals				
Earthwork					0.00
Portland Cement Concrete Paving					0.00
HMA Plant Mix					0.00
HMA Paving					0.00
Clean & Seal Cracks/Joints					0.00
Aggregate Bases & Surfaces					0.00
Highway, R.R. and Waterway Structures					0.00
Drainage					0.00
Electrical	15,000.00	50,990.29	5,899.00	16,160.82	0.00
Cover and Seal Coats					0.00
Concrete Construction					0.00
Landscaping					0.00
Fencing					0.00
Guardrail					0.00
Painting					0.00
Signing					0.00
Cold Milling, Planing & Rotomilling					0.00
Demolition					0.00
Pavement Markings (Paint)					0.00
Other Construction (List)					0.00
					0.00
					0.00
Totals	15,000.00	50,990.29	5,899.00	16,160.82	0.00

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

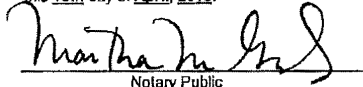
For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1393)	(C-1397)	(C-1402)	(C-1405)	Awards Pending
Subcontractor	ARTEAGA LANDSCAPES LLC	SAM SCHWARZ ENGINEERING		MYS, INCORPORATED	
Type of Work	LANDSCAPING	OPTIMIZATION & TIMINGS		2021200, 28000510- 60603500 WORK	
Subcontract Price	11,804.97	4,900.00		62,520.00	
Amount Uncompleted	0.00	4,550.00		62,520.00	
Subcontractor				ROY'S LAWN CARE	
Type of Work				LANDSCAPING	
Subcontract Price				3,360.00	
Amount Uncompleted				3,360.00	
Subcontractor				PRECISION PAVEMENT MARKINGS	
Type of Work				PAVEMENT MARKINGS	
Subcontract Price				5,561.75	
Amount Uncompleted				5,561.75	
Subcontractor				ROADSAFE	
Type of Work				PAVEMENT MARKINGS- TEMPORARY	
Subcontract Price				4,578.75	
Amount Uncompleted				4,578.75	
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	4,550.00	0.00	76,020.50	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

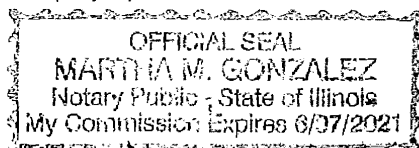
Subscribed and sworn to before me

this 18th day of April, 2018.


Notary Public

My commission expires: 6/7/2021

(Notary Seal)



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed 

Company H&H Electric Co.

Address 2830 Commerce Street

Franklin Park, Illinois 60131



**Illinois Department
of Transportation**

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

**Affidavit of Availability
For the Letting of 2018 Lighting and Traffic Signal
Maintenance**

Instructions: Complete this form by either typing or using black ink.
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completed in detail. Use additional forms as needed to list all work.

Part I. Work Under Contract

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	(C-1406)	(C-1407)	(C-1408)	(C-1418)	Awards Pending	
Contract Number	I.D.O.T. 60T20	I.D.O.T. 61C89	I.D.O.T. 61D03	I.D.O.T. 60W92		
Contract With	GALLAGHER ASPHALT	D. CONSTRUCTION, INC.	I.D.O.T.	I.D.O.T.		
Estimated Completion Date	06/15/18	04/30/18	06/15/18	06/30/18		
Total Contract Price	338,934.84	134,409.11	1,907,596.75	1,661,418.18		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor			20,445.11	978,118.03		1,013,563.14
Uncompleted Dollar Value if Firm is the Subcontractor	12,553.79	700.00				2,582,914.27
Total Value of All Work						3,596,477.41

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

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						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	12,553.79	700.00	-57,351.31	428,040.74	0.00	2,888,033.20
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	12,553.79	700.00	-57,351.31	428,040.74	0.00	2,888,033.20

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Part III. Work Subcontracted to Others

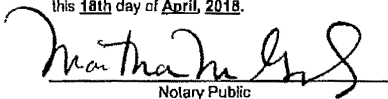
For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1406)	(C-1407)	(C-1408)	(C-1418)	Awards Pending
Subcontractor			MYS INCORPORATED	MYS, INCORPORATED	
Type of Work			BIKE PATH REMOVAL	MISCELLANEOUS	
Subcontract Price			8,730.00	113,854.00	
Amount Uncompleted			8,730.00	113,854.00	
Subcontractor			MYS INCORPORATED	ELITE FBER OPTICS	
Type of Work			CONCRETE WORK	FIBER OPTIC	
Subcontract Price			44,559.00	4,830.00	
Amount Uncompleted			44,559.00	4,830.00	
Subcontractor			LANDMARK	CAMPANELLA & SONS, INC.	
Type of Work			CONSTRUCTION LAYOUT	UNDERGROUND	
Subcontract Price			7,500.00	255,630.04	
Amount Uncompleted			0.00	255,630.04	
Subcontractor			ARTEAGA LANDSCAPING	CONIN CONTRACTOR SERVICES, INC.	
Type of Work			LANDSCAPING	LANDSCAPING	
Subcontract Price			24,507.42	8,059.75	
Amount Uncompleted			24,507.42	8,059.75	
Subcontractor			INTEGRITY ENVIRONMENTAL	LANDMARK	
Type of Work			SOIL TESTING	CONSTRUCTION LAYOUT	
Subcontract Price			12,050.00	7,850.00	
Amount Uncompleted			0.00	7,850.00	
Subcontractor			COMED	GEWALT HAMILTON & ASSOCIATES, INC.	
Type of Work			ELECTRICAL SERVICE	OPTIMIZATION & TIMINGS	
Subcontract Price			43,468.74	5,942.00	
Amount Uncompleted			0.00	5,942.00	
Subcontractor				LORIG CONSTRUCTION COMPANY	
Type of Work				MISCELLANEOUS	
Subcontract Price				153,911.50	
Amount Uncompleted				153,911.50	
Total Uncompleted	0.00	0.00	77,796.42	550,077.29	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

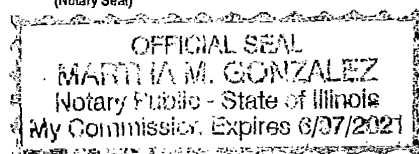
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this 18th day of April, 2018.


Notary Public

My commission expires: 6/7/2021

(Notary Seal)



Type or Print Name Louie Veneziano President
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Address 2830 Commerce Street

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	(C-1419)	(C-1421)	(C-1423)	(C-1424)	Awards Pending
Contract Number	N/A	I.D.O.T. 61D67	I.D.O.T. 60T08	I.D.O.T. 66H09	
Contract With	COPENHAVER CONSTRUCTION	I.D.O.T.	AUSTIN TYLER	I.D.O.T.	
Estimated Completion Date	06/30/18	04/30/18	06/15/18	06/30/19	
Total Contract Price	559,778.46	372,517.14	193,904.56	52,730.00	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor		37,061.34		11,770.79	1,063,295.27
Uncompleted Dollar Value if Firm is the Subcontractor	8,628.87		1,211.32		2,592,754.46
Total Value of All Work					3,656,049.73

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

List below the uncompleted dollar value of work for each contract and awards pending to be completed with your own forces. All work subcontracted to others will be listed on the reverse of this form. In a joint venture, list only that portion of the work to be done by your company. If no work is contracted, show NONE.

						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	8,628.87	34,848.84	1,211.32	11,770.79	0.00	2,944,493.02
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planing & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	8,628.87	34,848.84	1,211.32	11,770.79	0.00	2,944,493.02

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Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1419)	(C-1421)	(C-1423)	(C-1424)	Awards Pending
Subcontractor		MCGINTY BROS.			
Type of Work		LANDSCAPING			
Subcontract Price		1,612.50			
Amount Uncompleted		1,612.50			
Subcontractor		CLEAN CUT TREE SERVICE, INC.			
Type of Work		TREES			
Subcontract Price		1,500.00			
Amount Uncompleted		1,500.00			
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	3,112.50	0.00	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

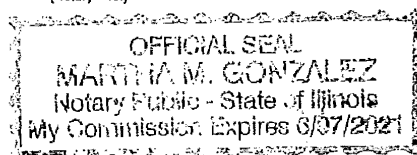
Subscribed and sworn to before me

this 18th day of April, 2018.

Martha M. Gonzalez
Notary Public

My commission expires: 6/7/2021

(Notary Seal)



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed *[Signature]*

Company H&H Electric Co.

Address 2830 Commerce Street
Franklin Park, Illinois 60131



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
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Affidavit of Availability For the Letting of 2018 Lighting and Traffic Signal Maintenance

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Part I. Work Under Contract

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	(C-1425)	(C-1426)	(C-1427)	(C-1429)	Awards Pending
Contract Number	I.D.O.T. 66H14	CDOT PROJECT CMM 6000 (318)	I.D.O.T. 60789	I.D.O.T. 62C43	
Contract With	I.D.O.T.	SUMIT CONSTRUCTION	IROQUOIS PAVING CORPORATION	IROQUOIS PAVING CORPORATION	
Estimated Completion Date	06/30/18	05/15/18	04/30/18	05/31/18	
Total Contract Price	47,665.59	278,380.63	53,657.00	203,873.30	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	34,831.33				1,098,126.60
Uncompleted Dollar Value if Firm is the Subcontractor		25,420.94	25,331.41	895.00	2,644,401.81
Total Value of All Work					3,742,528.41

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						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	34,831.33	25,420.94	25,331.41	895.00	0.00	3,030,971.70
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	34,831.33	25,420.94	25,331.41	895.00	0.00	3,030,971.70

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Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1425)	(C-1426)	(C-1427)	(C-1429)	Awards Pending
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
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Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	0.00	0.00	0.00	0.00

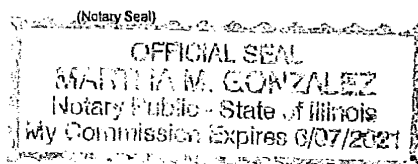
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Subscribed and sworn to before me

this 18th day of April, 2018.

Martina M. Gonzalez
Notary Public

My commission expires: 6/7/2021



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed *[Signature]*

Company H&H Electric Co.

Address 2830 Commerce Street

Franklin Park, Illinois 60131



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability For the Letting of 2018 Lighting and Traffic Signal Maintenance

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Part I. Work Under Contract

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	(C-1431)	(C-1433)	(C-1434)	(C-1435)	Awards Pending	
Contract Number	SECTION 12-000047-00-CH	I.D.O.T. 62B04	I.D.O.T. 62D44	I.D.O.T. 62D98		
Contract With	AUSTIN TYLER CONSTRUCTION, LLC	I.D.O.T.	I.D.O.T.	I.D.O.T.		
Estimated Completion Date	11/30/18	05/31/18	06/30/18	06/15/18		
Total Contract Price	378,799.00	89,429.20	410,734.60	940,250.09		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor		74,393.90	222,975.00	723,655.51		2,119,151.01
Uncompleted Dollar Value if Firm is the Subcontractor	324,995.45					2,969,397.26
Total Value of All Work						5,088,548.27

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

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						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	324,995.45	74,393.90	172,372.63	723,655.51	0.00	4,326,389.19
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	324,995.45	74,393.90	172,372.63	723,655.51	0.00	4,326,389.19

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Part III. Work Subcontracted to Others

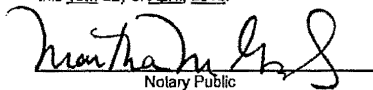
For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1431)	(C-1433)	(C-1434)	(C-1435)	Awards Pending
Subcontractor			HAMPTON, LENZINI, & RENWICK, INC.		
Type of Work			REOPTIMIZATION		
Subcontract Price			3,150.00		
Amount Uncompleted			3,150.00		
Subcontractor			INTEGRITY ENVIRONMENTAL		
Type of Work			SPOIL TESTING, ETC.		
Subcontract Price			23,100.00		
Amount Uncompleted			19,800.00		
Subcontractor			MARKING SPECIALISTS		
Type of Work			PAVEMENT MARKINGS		
Subcontract Price			24,352.37		
Amount Uncompleted			24,352.37		
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	0.00	50,602.37	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

Subscribed and sworn to before me

this 18th day of April, 2018.


Notary Public

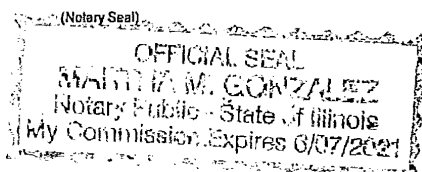
My commission expires: 6/7/2021

Type or Print Name Louie Veneziano President
Officer or Director Title

Signed 

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Address 2830 Commerce Street
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Affidavit of Availability For the Letting of 2018 Lighting and Traffic Signal Maintenance

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Part I. Work Under Contract

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	(C-1437)	(C-1439)	(C-1440)	(C-1441)	Awards Pending	
Contract Number	CITY OF ELGIN BID # 17-034	LAWRENCE AVE. & OCTAVIA AVE.	BELLWOOD - THORNTONS #327	SKOKIE BLVD. @ SUNSET RIDGE RD.		
Contract With	CURRAN CONTRACTING CO.	VILLAGE OF HARWOOD HEIGHTS	NOVAK CONSTRUCTION, INC.	LIFETIME FITNESS		
Estimated Completion Date	05/15/18	06/30/18	06/15/18	08/31/18		
Total Contract Price	222,015.20	261,085.30	151,232.00	289,660.70		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor		48,214.48	49,410.65	237,657.37		2,454,433.51
Uncompleted Dollar Value if Firm is the Subcontractor	14,150.00					2,983,547.26
Total Value of All Work						5,437,980.77

Part II. Awards Pending and Uncompleted Work to be done with your own forces.

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						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	12,800.00	35,614.48	48,915.65	237,182.37	0.00	4,660,901.69
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	12,800.00	35,614.48	48,915.65	237,182.37	0.00	4,660,901.69

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Part III. Work Subcontracted to Others

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	(C-1437)	(C-1439)	(C-1440)	(C-1441)	Awards Pending
Subcontractor	COMED	LPS PAVEMENT CO.	HAMPTON, LENZINI & RENWICK, INC.	SAM SCHWARZ ENGINEERING	
Type of Work	ELECTRICAL SERVICE	PAVERS	TIMINGS	TIMINGS	
Subcontract Price	3,908.24	12,600.00	495.00	475.00	
Amount Uncompleted	0.00	12,600.00	495.00	475.00	
Subcontractor	SAM SCHWARZ ENGINEERING	MACKIE CONSULTANTS, LLC			
Type of Work	TIMINGS	LAYOUT			
Subcontract Price	1,350.00	1,200.00			
Amount Uncompleted	1,350.00	0.00			
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	1,350.00	12,600.00	495.00	475.00	0.00

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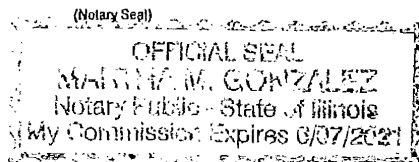
My commission expires: 6/7/2021

Type or Print Name Louie Veneziano President
Officer or Director Title

Signed *[Signature]*

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	(C-1442)	(C-1443)	(C-1445)	(C-1448)	Awards Pending	
Contract Number	1135 SKOKIE BLVD.	SCOTT ST. - LIGHTING	I.D.O.T. 66H64	CBBEL PROJECT NO. 980361.BR194		
Contract With	LIFETIME FITNESS	VILLAGE OF ROSEMONT	I.D.O.T.	ROLLING MEADOWS		
Estimated Completion Date	08/31/18	12/31/18	05/31/18	05/31/18		
Total Contract Price	209,563.00	1,677,043.62	27,617.10	123,245.80		Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor	186,427.22	1,660,276.47	17,920.93	48,154.80		4,367,212.93
Uncompleted Dollar Value if Firm is the Subcontractor						2,983,547.26
Total Value of All Work						7,350,760.19

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						Accumulated Totals
Earthwork						0.00
Portland Cement Concrete Paving						0.00
HMA Plant Mix						0.00
HMA Paving						0.00
Clean & Seal Cracks/Joints						0.00
Aggregate Bases & Surfaces						0.00
Highway, R.R. and Waterway Structures						0.00
Drainage						0.00
Electrical	186,427.22	1,639,816.12	11,791.93	45,298.80	0.00	6,544,235.76
Cover and Seal Coats						0.00
Concrete Construction						0.00
Landscaping						0.00
Fencing						0.00
Guardrail						0.00
Painting						0.00
Signing						0.00
Cold Milling, Planning & Rotomilling						0.00
Demolition						0.00
Pavement Markings (Paint)						0.00
Other Construction (List)						0.00
						0.00
						0.00
Totals	186,427.22	1,639,816.12	11,791.93	45,298.80	0.00	6,544,235.76

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	(C-1442)	(C-1443)	(C-1445)	(C-1448)	Awards Pending
Subcontractor		ROY'S LANDSCAPING	WORK ZONE SAFETY, INC.	ARTEAGA LANDSCAPES, LLC	
Type of Work		LANDSCAPING	PAVEMENT MARKING REMOVALS	LANDSCAPING	
Subcontract Price		20,460.35	2,000.00	2,856.00	
Amount Uncompleted		20,460.35	2,000.00	2,856.00	
Subcontractor			MAINTENANCE COATINGS CO.		
Type of Work			PAVEMENT MARKINGS		
Subcontract Price			4,129.00		
Amount Uncompleted			4,129.00		
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	0.00	20,460.35	6,129.00	2,856.00	0.00

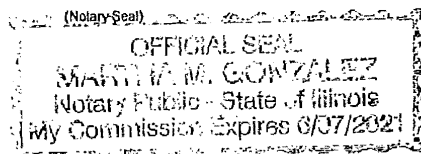
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Marta M. Gonzalez
Notary Public

My commission expires: 6/7/2021



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed *[Signature]*

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	(C-1450)	(C-1451)	(C-1452)	(C-1454)	Awards Pending
Contract Number	I.D.O.T. 61E05	I.D.O.T. 60V57	C.D.O.T. B-4-118	SECTION 17-002638- 15-TL	
Contract With	PLOTE CONSTRUCTION, INC.	MARTAM CONSTRUCTION, INC.	CAPITOL CEMENT CO., INC.	LAKE COUNTY DIVISION OF TRANSPORTATION	
Estimated Completion Date	10/01/19	11/16/18	05/19/2019	11/30/18	
Total Contract Price	1,024,477.10	1,332,065.60	1,701,873.60	409,254.34	Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor				406,307.34	4,773,520.27
Uncompleted Dollar Value if Firm is the Subcontractor	1,021,676.99	1,311,687.89	1,701,549.12		7,018,461.26
Total Value of All Work					11,791,981.53

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	Accumulated Totals				
Earthwork					0.00
Portland Cement Concrete Paving					0.00
HMA Plant Mix					0.00
HMA Paving					0.00
Clean & Seal Cracks/Joints					0.00
Aggregate Bases & Surfaces					0.00
Highway, R.R. and Waterway Structures					0.00
Drainage					0.00
Electrical	961,479.29	1,302,337.89	1,701,549.12	406,307.34	0.00
Cover and Seal Coats					0.00
Concrete Construction					0.00
Landscaping					0.00
Fencing					0.00
Guardrail					0.00
Painting					0.00
Signing					0.00
Cold Milling, Planning & Rotomilling					0.00
Demolition					0.00
Pavement Markings (Paint)					0.00
Other Construction (List)					0.00
					0.00
					0.00
Totals	961,479.29	1,302,337.89	1,701,549.12	406,307.34	0.00

Disclosure of this information is REQUIRED to accomplish the statutory purpose as outlined in the "Illinois Procurement Code". Failure to comply will result in non-issuance of an "Authorization To Bid." This form has been approved by the State Forms Management Center.

Part III. Work Subcontracted to Others

For each contract described in Part I, list all the work you have subcontracted to others.

	(C-1450)	(C-1451)	(C-1452)	(C-1454)	Awards Pending
Subcontractor	ELITE FIBER OPTIC CO.	HAMPTON, LENZINI & RENWICK, INC.			
Type of Work	FIBER OPTIC	OPTIMIZE TRAFFIC SIGNALS			
Subcontract Price	57,927.70	4,350.00			
Amount Uncompleted	57,927.70	4,350.00			
Subcontractor	HAMPTON, LENZINI & RENWICK, INC.	COMED			
Type of Work	OPTIMIZE TRAFFIC SIGNALS	ELECTRIC SERVICE			
Subcontract Price	2,270.00	5,000.00			
Amount Uncompleted	2,270.00	5,000.00			
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Subcontractor					
Type of Work					
Subcontract Price					
Amount Uncompleted					
Total Uncompleted	60,197.70	9,350.00	0.00	0.00	0.00

I, being duly sworn, do hereby declare this affidavit is a true and correct statement relating to ALL uncompleted contracts of the undersigned for Federal, State, County, City and private work, including ALL subcontract work, ALL pending low bids not yet awarded or rejected and ALL estimated completion dates

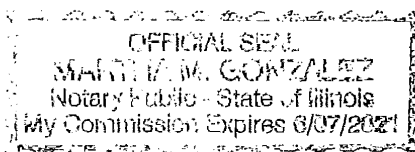
Subscribed and sworn to before me

this 18th day of April, 2018.

Martha M. Gonzalez
Notary Public

My commission expires: 6/7/2021

(Notary Seal)



Type or Print Name Louie Veneziano President
Officer or Director Title

Signed *[Signature]*

Company H&H Electric Co.

Address 2830 Commerce Street

Franklin Park, Illinois 60131

RETURN WITH BID

SIGNATURES

County McHenry
Local Public Agency Village of Algonquin
Section Number 18-00000-00-GM
Route 2018 Lighting and Traffic Signal Maintenance

(If an individual)

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed By _____

Business Address _____

Inset Names and Addressed of All Partners



(If a corporation)

Corporate Name H&H ELECTRIC, CO.

Signed By  LOUIE VENEZIANO
President

Business Address 2830 COMMERCE STREET
FRANKLIN PARK, ILLINOIS, 60131

Inset Names of Officers

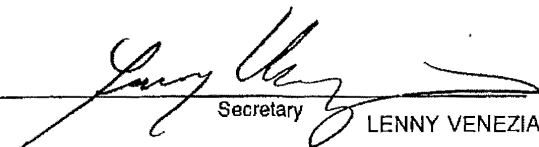


President LOUIE VENEZIANO

Secretary LENNY VENEZIANO

Treasurer LOUIE VENEZIANO

Attest:


Secretary LENNY VENEZIANO



**Illinois Department
of Transportation**

**Apprenticeship or Training
Program Certification**

Return with Bid

Route	2018 Lighting and Traffic Signal Maintenance
County	McHenry
Local Agency	Village of Algonquin
Section	18-00000-00-GM

All contractors are required to complete the following certification:

☒ For this contract proposal or for all groups in this deliver and install proposal.

☐ For the following deliver and install groups in this material proposal:

Illinois Department of Transportation policy, adopted in accordance with the provisions of the Illinois Highway Code, requires this contract to be awarded to the lowest responsive and responsible bidder. The award decision is subject to approval by the Department. In addition to all other responsibility factors, this contract or deliver and install proposal requires all bidders and all bidders' subcontractors to disclose participation in apprenticeship or training programs that are (1) approved by and registered with the United States Department of Labor's Bureau of Apprenticeship and Training, and (2) applicable to the work of the above indicated proposals or groups. Therefore, all bidders are required to complete the following certification:

- I. Except as provided in paragraph IV below, the undersigned bidder certifies that it is a participant, either as an individual or as part of a group program, in an approved apprenticeship or training program applicable to each type of work or craft that the bidder will perform with its own employees.
- II. The undersigned bidder further certifies for work to be performed by subcontract that each of its subcontractors submitted for approval either (A) is, at the time of such bid, participating in an approved, applicable apprenticeship or training program; or (B) will, prior to commencement of performance of work pursuant to this contract, establish participation in an approved apprenticeship or training program applicable to the work of the subcontract.
- III. The undersigned bidder, by inclusion in the list in the space below, certifies the official name of each program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's employees. Types of work or craft that will be subcontracted shall be included and listed as subcontract work. The list shall also indicate any type of work or craft job category for which there is no applicable apprenticeship or training program available.

IBEW LOCAL #9 MIDDLE STATES CONTRACTORS ASSOCIATION, HILLISIDE, ILLINOIS 60162

- IV. Except for any work identified above, any bidder or subcontractor that shall perform all or part of the work of the contract or deliver and install proposal solely by individual owners, partners or members and not by employees to whom the payment of prevailing rates of wages would be required, check the following box, and identify the owner/operator workforce and positions of ownership. ☐

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project is accounted for and listed. The Department at any time before or after award may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. In order to fulfill the participation requirement, it shall not be necessary that any applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract or deliver and install proposal.

Bidder: H&H ELECTRIC CO.
Address: 2830 COMMERCE STREET
FRANKLIN PARK, ILLINOIS 60131

By: 
(Signature)
Title: LOUIE VENEZIANO, PRESIDENT

The United States Department of Labor

Office of Apprenticeship Training, Employer and Labor Services

Bureau of Apprenticeship and Training

Certificate of Registration

I.B.E.W. LOCAL #9 MIDDLE STATES ELECTRICAL CONTRACTORS ASSN.

Hillside, Illinois

For the Trades of Line Maintainer

*Registered as part of the National Apprenticeship Program
in accordance with the basic standards of apprenticeship
established by the Secretary of Labor*

Revised May 5, 2003
August 26, 1992

Date

IL015920003

Registration No.



L. F. Chao

Secretary of Labor

Anthony S. Surace

Administrator, Apprenticeship Training, Employer and Labor Services

RETURN WITH BID



Illinois Department
of Transportation

Affidavit of Illinois Business Office

County McHenry

Local Public Agency Village of Algonquin

Section Number 18-00000-00-GM


Route 2018 Lighting and Traffic Signal
Maintenance

State of Illinois)
) ss.
County of McHenry)

I, LOUIE VENEZIANO of FRANKLIN PARK, ILLINOIS,
(Name of Affiant) (City of Affiant) (State of Affiant)

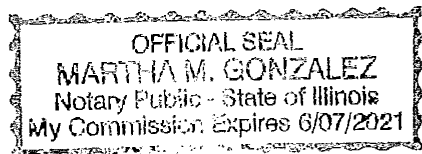
being first duly sworn upon oath, states as follows:

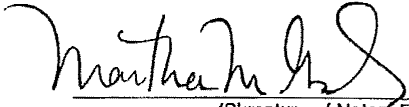
1. That I am the PRESIDENT of H&H ELECTRIC CO.,
officer or position bidder
2. That I have personal knowledge of the facts herein stated.
3. That, if selected under this proposal, H&H ELECTRIC CO., will maintain a
(bidder)
business office in the State of Illinois which will be located in COOK County, Illinois.
4. That this business office will serve as the primary place of employment for any persons employed in the construction contemplated by this proposal.
5. That this Affidavit is given as a requirement of state law as provided in Section 30-22(8) of the Illinois Procurement Code.


(Signature)
LOUIE VENEZIANO, PRESIDENT
(Print Name of Affiant)

This instrument was acknowledged before me on 20th day of APRIL, 2018.

(SEAL)




(Signature of Notary Public)