

REBUILDING ROCKFORD 2014



**CITY OF ROCKFORD
PURCHASING DIVISION
CITY HALL BUILDING
425 EAST STATE STREET
ROCKFORD, IL 61104**

**BID ON: PARKING DECK SIGNAGE
INSTALLATION
BID NO.: 514-W-054
BID DATE: MAY 27, 2014
TIME: 11:00 AM**

**NOTICE TO CONTRACTORS, INSTRUCTION TO BIDDERS, SPECIFICATIONS AND
PROPOSAL**



Carrie Eklund
Central Services Manager
Finance Department

**INVITATION FOR BID
PARKING DECK SIGNAGE INSTALLATION
514-PW-054**

Bids will be received until **11:00 a.m.**, local time, on **Tuesday, May 27, 2014** at the office of the Central Services Manager, City Hall Building, 425 East State Street, Rockford, Illinois 61104. At that time and place all bids received will be publicly opened and read aloud.

There will be a mandatory pre-bid meeting on Wednesday, May 21, 2014 at 10:30 AM at the Pioneer Parking Deck Wyman Street Entrance – 300 block of N. Wyman.

Bids will be accepted until the specified opening time and date. Any bidder attempting to deliver after the opening time and date will be refused.

Bid documents may be obtained at the office of the Central Services Manager, at City Hall, 425 E. State Street, Rockford, IL, 61104, or at <http://www.rockfordil.gov/finance/central-services-division/purchasing.aspx> Bids must be enclosed in a sealed envelope and marked with the name of the bid, and the bid number.

Each bidder shall submit with his bid the information specified in the bid documents for compliance with the laws of the State of Illinois on Fair Employment Practices and with the City of Rockford's Ordinance on Equal Employment and Business Opportunity. Any bid which fails to include the compliance items properly completed will not be read and will not be considered.

The City of Rockford reserves the right to accept or reject any and all proposals and to waive technicalities.

Dated: May 12, 2014

FINANCE AND PERSONNEL COMMITTEE

Carrie Eklund
Central Services Manager

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Section 1

Bid Instructions



Carrie Eklund
Central Services Manager
Finance Department

**INVITATION TO BID
PARKING DECK SIGNAGE INSTALLATION
BID NO.: 514-W-054**

Name of Bidding Firm:

Address: _____ **City:** _____ **State:** _____ **Zip:** _____

Phone: _____ **Fax:** _____

Email: _____

Bid Opening Time and Date: 11:00 a.m., Local time, Tuesday, May 27, 2014

Bid Deposit/Bid Bond: YES
Prevailing Wage: YES
Performance Bond: YES

PLEASE MARK THE RETURNED SEALED ENVELOPE:

- 1. Bid Opening Date and Time**
- 2. Title of Job**
- 3. Bid Number**

RETURN BIDS TO:

**City of Rockford
Central Services Manager
425 East State Street, 4th Floor
Rockford, Illinois 61104
Telephone: (815) 987-5560**

BIDS SUBMITTED BY FACSIMILE OR E-MAIL WILL NOT BE ACCEPTED

BID RESULTS:

Bid results may be obtained by telephone at (815) 987-5560 or by fax at (800) 380-7175.

CITY OF ROCKFORD, ILLINOIS—BIDDING GENERAL CONDITIONS

1. Pricing. The bidder shall insert price for all bid items and all other information requested in these specifications. The price shall be the *full, delivered cost* to the City of Rockford with no additions.
2. Total versus “Per Item” Awards. The City generally awards contracts based on a lump sum basis to the lowest responsible and responsive bidder. However, the City may choose to award on a per item basis. Therefore, each bidder must submit pricing for each item indicated on the bid forms. Bidders must clearly indicate which items are bid and which are not.
3. Delivery of Merchandise. Delivery terms will always be Freight On Board (FOB)—Destination. The City of Rockford accepts no responsibility for the condition of any merchandise purchased prior to acceptance by City Personnel. Failure to comply with this requirement may constitute rejection of the bid.
4. Acceptance of Merchandise at Delivery. The City of Rockford reserves the right to refuse acceptance of delivered merchandise that differs substantially from the specifications in this invitation to bid or as otherwise permitted by Illinois law.
5. Prompt Payment Act. The City of Rockford intends to comply with the governmental prompt payment act. The awarded vendor will be paid upon submission of invoices to: City of Rockford Accounts Payable, 425 East State Street, Rockford, IL 61104.
6. Legal Compliance. The vendor awarded this contract will comply with all Federal, State, County, and City laws, ordinances, rules and regulations, which in any manner affect the product or service placed for bid herein. Lack of knowledge on the part of the awarded vendor of applicable law will in no way be cause for release of this obligation. If the City becomes aware of violation of any laws, ordinances, rules and regulations on the part of the awarded vendor, it reserves the right to reject any bid, cancel any contract, and pursue any other legal remedies deemed necessary.
7. Legal Requirements. This contract sets forth the entire final agreement between the City of Rockford and the bidder and shall govern the respective duties and obligations of the parties. The validity of this contract, and any disputes arising from the contract, shall be governed by the laws of the State of Illinois. Any litigation under this agreement shall be resolved in the trial courts of Winnebago County, State of Illinois. Should a provision of this contract be declared invalid by a court of competent jurisdiction, it shall not affect the validity of the remaining provisions of the contract.
8. Safety. Prevention of accidents at any project is the sole responsibility of the awarded vendor and its subcontractors, agents, and employees. The awarded vendor, its subcontractors, agents, and employees shall be fully and solely responsible for the safety of this project. The awarded vendor shall retain exclusive and direct control over the acts or omissions of its subcontractors, agents and employees, and any other persons performing portions of the work and not directly employed by the awarded vendor.
9. Criminal Background Check. When necessary for the protection of citizens and/or City staff, the City may require an awarded vendor to conduct a criminal background check on all of its personnel who will have direct contact with City facilities or residents/businesses served under this contract. Personnel are defined as representatives, agents, employees, subcontractors, or anyone else who will be utilized to

fulfill obligations under this contract. Criminal background checks, at a minimum, shall consist of a county level felony and misdemeanor check for each county in which the personnel resided in the last 10 years. The awarded vendor shall notify the City of any of its personnel who have been convicted of a felony or misdemeanor prior to commencing any work under this contract. At the City's discretion, personnel with any felony or misdemeanor convictions which raise a concern about the safety of building, property, or City staff/resident's personal security, or is otherwise job related (as determined by the City) shall not perform work under this contract. Once given notice that a background check(s) will be required, it must be completed within 14 calendar days so as to not delay work to be completed.

10. Control of the Work. With respect to the awarded vendor's own work, the City shall not have contractual, operational, and/or supervisory control over and/or charge of the work and shall not be responsible for construction means, methods, techniques, sequences, procedures, and programs in connection with the awarded vendor's work, since these are solely the vendor's responsibility under the agreement. The City shall not be responsible for the awarded vendor's failure to carry out the work in accordance with the agreement's terms and conditions. The City shall not have control over and/or charge of acts or omissions of the awarded vendor, its subcontractors, and/or their agents or employees, or any other person performing portions of the work not directly employed by the awarded vendor. The awarded vendor shall be considered to be an "independent contractor" pursuant to Illinois law.

11. Bid Bond. When required on the cover sheet, a bid bond for not less than 5 percent of the bid amount must accompany all bids as a guarantee that if the bid is accepted, the bidder will execute and file the proper contract. A bank cashier's check, bank draft, or certified check equal to the amount specified is acceptable in lieu of a bid bond. Bid bonds of the two lowest firms will be retained until the contract is awarded.

12. Performance Bond. When required by the specifications herein, the awarded vendor shall furnish a performance bond equal to the amount of the contract, acceptable to the City, within 14 calendar days after notification of contract award. Failure to furnish the required bond within the time specified may be cause for rejection of the bid and any bid deposit may be retained by the City as liquidated damages and not as a penalty.

13. Taxes. No charge will be allowed for taxes from which the City of Rockford, Illinois is exempt. The City of Rockford, Illinois is not liable for the Illinois Retailers' Occupation Tax, the Service Occupation Tax or the Service Use Tax. The City is exempt from the Federal Excise and Transportation Tax.

14. Withdrawal of Bids. Firms may withdraw or cancel their bids at any time prior to the advertised invitation to bid opening. After the opening time, no bid shall be withdrawn or cancelled. All bids shall be firm and valid for a period of sixty (60) calendar days. If a bidder to whom a contract is awarded refuses to accept the award, the City may, at its discretion, suspend the bidder for a period of time up to three (3) years.

15. Subcontracting. The bidder shall provide information for all subcontractors, leased operators/equipment, and suppliers and all other information requested in the Subcontractor and Supplier Detail Forms attached. Requests for deviations from the completed detail forms submitted must be made in writing, and reviewed and approved by the City's Diversity Procurement Officer and the Central Services Manager or designee. The awarded vendor may not subcontract any portion of the contract after award without written consent of the City of Rockford Central Services Manager. When

subcontractors are used, the awarded vendor is required to pay subcontractors promptly after completion of work. Delay of payment is prohibited.

16. Termination of Contract. The City of Rockford reserves the right to terminate the contract in its entirety or in portions, upon written notice to the awarded vendor, if the Rockford City Council does not appropriate sufficient funds to complete the contract or in the event of default by the awarded vendor. Default is defined as failure of the awarded vendor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. In the event of default, the City may purchase the product(s) and/or service(s) from other sources and hold the defaulting company responsible for any excess costs occasioned thereby. The City may require payment of liquidated damages for non-performance. Should default be due to failure to perform or because of a request for a price increase, the City reserves the right to remove the firm from the City's bidder list for a period of up to three years.

17. Late Bids and Proposals. Regardless of cause, late bids and proposals will not be accepted and will automatically be disqualified from further consideration. It shall be solely the vendor's risk to ensure delivery at the designated office by the designated time. Late bids and proposals will not be opened and may be returned to the awarded vendor at their request and expense.

18. EEO Forms. Each firm shall be required to submit with its bid information all EEO forms included in the invitation to bid package. Any bid which fails to include the properly completed compliance items will not be read and will not be considered. All subcontractors shall also be required to comply with the same EEO forms as the firm.

19. Restrictive or Ambiguous Specifications. It is the responsibility of the bidding firm to review the invitation to bid specifications and to notify the Central Services Manager if the specifications are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the specifications or invitation to bid procedures must be received by the Central Services Division not less than seventy-two hours prior to the time set for the opening. In the event a contract term is not defined within the contract document, the term will be given its ordinary dictionary definition.

20. Bid Protest. Firms wishing to protest bids or awards shall notify the Central Services Manager in writing within 7 days after the invitation to bid opening. The notification should include the bid number, the name of the firm protesting, and the reason why the firm is protesting the bid. The Central Services Manager will respond to the protest within seven (7) calendar days. A successful protest may result in the reversal of a previously awarded contract.

21. Disputes. In case of disputes as to whether or not an item or service quoted or delivered meets specifications, the decision of the Central Services Manager, or authorized representative shall be final and binding to all parties. The Central Services Manager has the right to waive technicalities as they see fit. The Central Services Manager may request a written recommendation from the head of the department using the equipment or service being procured.

22. Exceptions. Any deviations from these specifications shall be noted and submitted with the bid. Failure to address deviations from specifications may result in bid rejection.

23. Acceptance/Rejection of Bids. The City of Rockford reserves the right to accept or reject any or all bids or proposals at any time, for any reason, including but not limited to the Rockford City Council not appropriating sufficient funds to purchase equipment or complete the contract. The City may make awards in any manner deemed in the best interest of the City.

24. Prevailing Wage. When indicated on the cover page of this document, this contract calls for the construction of a “public work,” within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 *et seq.* (“the Act”). The Act requires awarded vendors and subcontractors to pay laborers, workers, and mechanics performing services on public works projects no less than the “prevailing rate of wages” (hourly cash wages plus fringe benefits) in the county where the work is performed. When required, awarded vendors are responsible for paying current prevailing wage rates, as posted on the Illinois Department of Labor’s website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. It is the awarded vendor’s responsibility to verify current wage rates, as they are updated monthly. All awarded vendors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice, and record keeping duties.

25. Certified Payroll. All Certified Payroll reports required to be submitted under the Prevailing Wage Act, 820 ILCS 130, must be submitted monthly via the City’s current certified payroll reporting system. No paper copies or non-conforming Certified Payroll reports will be accepted. The City reserves the right to withhold payment due to the awarded vendor until the vendor displays compliance with this provision.

26. Substance Abuse Prevention. When required by Illinois State Statutes, awarded vendors must have in place and file with the City a written program for prevention of substance abuse among its employees. This program must include pre-hire, random, reasonable suspicion, and post-accident drug and alcohol testing, as required by the Substance Abuse Prevention on Public Works Projects Act.

27. Apprenticeship Requirement. For construction contracts over \$50,000, awarded vendors must participate in apprenticeship and training programs approved and registered with the United States Department of Labor’s Bureau of Apprenticeship and Training for all Trades that will be in the awarded vendor’s (or his subcontractor’s) employment, with each worker receiving the required apprenticeship/training appropriate to his trade. Owners or work performed by owners is not exempt from the apprenticeship and training requirement.

28. Indemnification. To the fullest extent permitted by law, the awarded vendor shall indemnify and hold harmless the City, its officers, representatives, elected and appointed officials, agents, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney’s fees, arising out of or resulting from the awarded vendor’s performance of work under this agreement, and indemnifies and agrees to defend and hold harmless the City against any and all losses, claims, damages, and expenses arising from the work performed hereunder of the erection, construction, placement, or operation of any scaffold, hoist, crane, stay, ladder, support, or other mechanical contrivance in connection with such work including but not limited to losses, claims, damages, and expenses arising pursuant to claims asserted against the City pursuant to theories premised upon section 414 of the Restatement (Second) of Torts and section 343 of the Restatement (Second) of Torts.

This indemnification agreement shall not be limited in any way by any limitations on the amount or type of damages, compensation, or benefits payable by or for the awarded vendor under Worker’s Compensation Acts, disability benefit acts, or other employee benefit acts, and serves as an express

agreement to waive the protection of *Kotecki v. Cyclops Welding Corp.*, 146 Ill.2d 155, 585 N.E.2d 1023 (1991) in Illinois.

Further, the awarded vendor agrees that it is solely responsible for compliance with all safety laws applicable to the work performed hereunder, including but not limited to the Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1960 and all standards and regulations which have been or shall be promulgated by the agencies which administer the Acts.

Under no circumstances shall the awarded vendor, its subcontractors, agents, and employees be required to indemnify the City for its own negligence.

29. Insurance Requirements. Upon execution of the contract, and prior to the awarded vendor commencing any work or services with regard to the project, the awarded vendor shall carry commercial general liability insurance, umbrella liability insurance, and automobile liability insurance on ISO form CG 00 01 10 01 (or a substitute form providing equivalent coverage) and the awarded vendor shall provide the City with a Certificate of Insurance and Additional Insured Endorsement on ISO form CG 20 10 11 85 (or substitute form providing equivalent coverage) or on the combination of ISO forms CG 20 10 10 01 and CG 20 37 10 01 (or substitute forms providing equivalent coverage) naming the City as Additional Insured thereunder. Additional insured coverage shall apply as primary insurance and be noncontributory with respect to any other insurance afforded to the City. All coverage shall be placed with an insurance company duly admitted in the State of Illinois and shall be reasonably acceptable to the City. All awarded vendor insurance carriers must maintain an A.M. Best rating of "A-" or better. Coverage shall be afforded to the additional insured whether or not a claim is in litigation.

The insurance coverage required above shall be of sufficient type, scope and duration to ensure coverage for the City for liability related to any manifestation date within the applicable statutes of limitation and/or repose which pertain to any work performed by or on behalf of the City in relation to the contract. The following insurance requirements shall apply to the successful firm for the duration of the contract unless explicitly waived by the Central Services Manager:

- ❖ Commercial General Liability. The coverage available to the City, as Additional Insured, shall not be less than \$1 million each occurrence, \$2 million general aggregate (subject to a per project general aggregate provision applicable to the project), \$2 million products/completed operations aggregate and \$1 million personal and advertising injury limits. Such insurance shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).
- ❖ Umbrella Liability. The coverage available to the City, as Additional Insured, shall not be less than \$2 million each occurrence, \$2 million general aggregate. Such insurance shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).
- ❖ Automobile Coverage. The coverage available to the City, as Additional Insured, shall include comprehensive automobile bodily injury and property damage liability coverage for a minimum amount of \$1 million each occurrence, \$2 million general aggregate

- ❖ Workers Compensation. The awarded vendor shall maintain during the life of this contract statutory workmen's compensation and employer's liability insurance for all his employees engaged in work on the job site.
- ❖ Insurance Certificates. Each Certificate of insurance shall provide that the insurer must give the City at least 30 days' prior written notice of cancellation and termination of the City's coverage thereunder. Not less than two weeks prior to the expiration, cancellation or termination of any such policy, the awarded vendor shall supply the City with a new and replacement Certificate of Insurance and Additional Insured endorsement as proof of renewal of said original policy. Said new and replacement endorsements shall be similarly endorsed in favor of the City as set forth above. All subcontractors to be utilized by the Contractor shall provide Ownership with a Certificate of Insurance naming City of Rockford as additional insured prior to commencement of work by said subcontractor.

30. Officers. Each bidder affirms, by submission of a response to this bid or request for proposals, that no officer of the City of Rockford, Illinois, is directly or indirectly interested in the proposal for any reason of personal gain.

31. Non-Waiver. The failure by the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this contract constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

32. Professional Services Selection Act. The City of Rockford intends to comply with 50 ILCS 510/5 governing the selection of professional services. Any reference in these terms and conditions to supplying pricing or price as a determining factor in selection do not apply for services covered by said act.

33. The City of Rockford reserves the right to accept or reject any and all proposals and to waive technicalities in submitted bids.

Instruction to Bidders
Bid No.: 514-PW-054

1. The bidder shall insert the price for all bid items and all other information requested in the Bid Form attached or a computer generated schedule of prices. All computer-generated schedule of prices submitted must be correct and correspond to the latest schedule of prices issued by the City of Rockford or the bid may be rejected. All prices shall be net and shall be the full, delivered cost to the City of Rockford, including all factors whatsoever. Failure to comply with this requirement will constitute rejection of bid.
2. All proposals must be accompanied by a bank cashier's check, bank draft, certified check or bid bond for not less than 5% of the amount of the bid payable to the City of Rockford as a guarantee that if the bid is accepted, the bidder will execute and file the proper contract and 100% performance, labor, material and payment bond within ten (10) days after the award of the contract or forfeit such bid guarantee to the City of Rockford as liquidated damages. Bidder will furnish satisfactory proof of required insurance, naming City of Rockford as additional insured within ten (10) days after notice of award and before work is commenced.
3. The City requires the improvements specified to be completed under the following guidelines: The Contractor must begin work within 10 days of the Notice to Proceed. Once notice to proceed has been given, **contractor will have 30 calendar days from arrival of signage or notice to proceed, whichever is later, to complete the project.**
4. Bidders bidding on this City of Rockford construction project must be pre-qualified with the State of Illinois according to Section 102 of the Standard Specifications for Road and Bridge construction of the Illinois Department of Transportation. The bidder, prior to receiving a proposal form and being placed on the Bidders list must submit a certified copy of a "Certificate of Eligibility" issued by the Department of Transportation. An "Affidavit of Availability" issued by the Department of Transportation must accompany each sealed bid. Bids will be awarded upon approval of "Affidavit of Availability".

Anyone may secure a proposal marked "NOT FOR BIDDING" but will not be placed on the Bidders List and will not be allowed to submit a bid. Anyone securing a proposal marked "NOT FOR BIDDING" will be placed on a separate list for information purposes only.

5. It shall be mandatory that the awarded vendor and subcontractors comply with the Illinois Preference Act (IL Rev. Stat., Ch. 48, Par. 2201-2207) requires that only Illinois-resident workers be employed on Public Works Projects in times of excessive unemployment
6. The bidder receiving award of this contract by the Rockford City Council shall submit the following information and be issued a notice to proceed prior to start of work:
 - Construction schedule including starting date, project phasing controlling factors; and, estimated payment schedule (in Microsoft Projects format, one hard copy and one digital copy);
 - Material suppliers including plant locations and State certification.

- Subcontract items, including proposed subcontractors, items of work of each subcontractor, percent of total contract to be completed by each subcontractor; and, information specified in the bid documents requiring compliance with the laws of the State of Illinois on Fair Employment Practices, with the City of Rockford's Ordinance on Equal Employment and Business Opportunity.
 - Certification that the subcontractor does not maintain or provide for his employees any segregated facilities. (If the subcontractor fails to submit these required EEO compliance documents to the contractor or if the subcontractor is found to be in noncompliance, the City of Rockford may require that the subcontractor in question not be utilized on the project. The City of Rockford also reserves the right to take whatever action necessary to meet all EEO requirements.)
7. Bidders are only required to return to the City the forms listed in the Required Forms section of the bid document, along with any special information that may be requested of firms as part of the general or special provisions. Sections 1, 3, and 4 of the bid document need not be returned to the City.
 8. Bidder Questions during Bidding.
 1. All questions regarding the bidder's preparation of his bid, pertaining to the drawings and specifications, shall be compiled in writing and e-mailed to Carrie Eklund, (Carrie.Eklund@rockfordil.gov) City of Rockford, Finance Department, at least 72 hours prior to bid time.
 2. Questions received less than 72 hours before the designated bid time cannot be answered by addendum.
 3. Oral statements will not be binding to City of Rockford or the Contractor
 4. Any questions deemed by City as requiring a response will be answered by addendum issued to all bidders and will become a part of the Contract.
 5. Subcontractors must direct their questions through the General Contractor only.
 6. The consulting Architect and/or the consulting Engineer shall not be contacted direct without prior authorization from City.
 9. These instructions are to be considered an integral part of any proposal.
 10. Release of Liens: Before each progress payment is made after the initial payment, each contractor will be required to give the City good and sufficient evidence that the premises are free from all liens, damages, and anything chargeable to said awarded vendor as aforesaid, the City shall have the right to retain out of the payment then due, or thereafter to become due, an amount sufficient to indemnify the Owner against all such liens, damages and claims until the same shall be effectually satisfied, discharged, and cancelled.

FINANCE AND PERSONNEL COMMITTEE

Carrie Eklund

Central Services Manager

Dated: May 1, 2014

Section 2

Required Forms

BIDDER'S INFORMATION
PARKING DECK SIGNAGE INSTALLATION
BID NO.: 514-PW-054

Name of Bidding Firm: _____

Address: _____ **City:** _____ **State:** _____ **Zip:** _____

Phone: _____ **Fax:** _____

Email: _____

Contact Name: _____

Bid Opening Time and Date: 11:00 a.m., Local time, Tuesday, May 27, 2014

**BID REQUIREMENTS FOR
EQUAL EMPLOYMENT OPPORTUNITY**

All bidders seeking to do business with the City of Rockford are REQUIRED to submit with any formal, sealed bid all of the following documents and information, attached herewith, completed and signed:

1. Equal Employment Opportunity Affirmative Action Plan Statement of Policy.
2. The Statement of Non-Compliance and Certificate of Non-Segregated Facilities.
3. The Contractor or Vendor Workforce Data Form listing all current employees, by classification, directly employed by the bidder. All categories of information requested must be supplied.
Note: The number of employees must be entered under each category (no check marks)

Below are the Federal definitions of the following racial groups accepted as minorities by the City of Rockford:

Black: A person having origins in any of the Black racial groups of Africa, not of Hispanic origin.

Hispanic: A person of Spanish or Portuguese culture with origins in Mexico, South or Central America, or the Caribbean Islands, regardless of race.

Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes for example, China, Japan, Korea, the Philippine Republic and Samoa.

American Indian or Alaskan Native: A person having origins in any of the original peoples of North America.

4. Your State of Illinois Pre-Qualification Certification Number, issued by the Illinois Department of Human Rights for the Illinois Department of Human Rights Act, must provide expiration date entered in the place provided therefore.
5. Certificate of Non-Barred Bidding
6. All executed Subcontractor/Leased Operator and Supplier forms.

If you have not obtained your State of Illinois Pre-Qualification Number (item #4), by signing these documents you agree to make application for this number within 30 days from the date of bid opening.

ANY BID WHICH FAILS TO INCLUDE THE CITY OF ROCKFORD EEO

PAGES 2, 4, 5, 6, AND 7, COMPLETED AND SIGNED WITH YOUR

SEALED BID WILL NOT BE READ AND WILL NOT BE CONSIDERED –

NO EXCEPTIONS.

Falsification of any required Equal Employment Opportunity or Affirmative Action information on the part of the bidder could result in rejection of the bid submitted or in the case where a contract has already been awarded, in the cancellation of said contract.

Any questions pertaining to E.E.O. requirements should be addressed to Ron Moore, Diversity Procurement Officer, Legal Department, 425 East State Street, Rockford, Illinois 61104, Phone: (815) 987-5622 or ron.moore@rockfordil.gov

EQUAL EMPLOYMENT OPPORTUNITY
AFFIRMATIVE ACTION PLAN
STATEMENT OF POLICY

It is the policy of this company, _____
to provide equal employment opportunity without regard to race, religion, color, national origin, handicap, age or sex through a program of positive action affecting all employees. In this program, our company carries out the requirements of Federal Executive orders 11246 and 11375, Civil Rights Act of 1964, Equal Employment Act of 1972, and all other applicable laws, and indicates its active support of the principle of equal opportunity in employment.

At present, _____ % of our work force are minorities and _____ % of our work force are females, and we will attempt to utilize minorities and females through a positive, continuing program in all jobs for which we contract in the future. Our company will utilize referrals from the City of Rockford's Diversity Procurement Officer for use of minorities and females regarding any future job vacancies.

It is also our intent to make efforts to purchase supplies or equipment from small business concerns located in the City of Rockford or counties of Winnebago or Boone and owned in substantial part (at least 51 per cent) by minorities or females.

_____ is the official who will be responsible for implementing this policy statement.

_____ will be designated as the Equal Opportunity Officer in our company, responsible for submission of all required equal employment opportunity documents.

In addition, _____ is hereby authorized to sign payroll as well as this company's officers. (NOTE: If only officers will be authorized to sign payrolls, please fill in "No One" in this space.)

STATEMENT OF NONCOMPLIANCE

If the equal employment opportunity hearing committee determines that a contractor, subcontractor/leased operator of equipment or bidder is not in compliance with this chapter, (also known as Chapter 11, Article III the City of Rockford Equal Opportunity Employment Ordinance), the hearing committee shall issue and serve upon such person a written statement of noncompliance setting forth the manner in which it finds such person has violated this chapter, and imposing and/or requiring appropriate sanctions, including, but not limited to any and/or all of the following:

- a. Denying, suspending or revoking qualifications, or declaring the contractor or subcontractor irresponsible and ineligible for future contracts or subcontracts until such time as the contractor or subcontractor shall demonstrate to the equal employment opportunity hearing committee that it is in compliance;
- b. Withholding or delaying payment on the contractor or;
- c. Suspending, avoiding or canceling contract work.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid.

The bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors/leased operators of equipment for specific time periods) he/she will obtain identical certification from proposed subcontractors/leased operators of equipment from the provisions of the Equal Opportunity clause, and that he/she will retain such certification in his/her files.

CERTIFICATE OF NON-BARRED BIDDING

The undersigned certifies that it is not barred from bidding on this contract as a result of a conviction for the violation of State laws prohibiting bid rigging or bid rotating. The undersigned also certifies that current or prospective employees, contractors, and subcontractors/leased operators of equipment are not listed as Excluded Individuals/Entities with the US Government, as maintained by the US General Services Administration.

By signing below, the firm agrees that all information provided in the previous pages is accurate, and that if the firm below does not currently have a Department of Human Rights number they will apply for one within thirty days with the State of Illinois.

Authorized Signature

Title

Firm

Our firm is a:

Minority Business Enterprise

City-Certified?

Yes

No

Women Business Enterprise

City Certified?

Yes

No

Neither

(Revised 12/21/09)

Subcontractor/Leased Operator of Equipment Detail Form

Firms submitting bids must supply information on Subcontractors/Leased Operators of Equipment selected for work on the project specified. It is required that Subcontractors/Leased Operators of Equipment listed below will be utilized for actual construction should the firm be awarded a contract. Any deviations from the list below require notice in writing and approval by the Diversity Procurement Officer, Central Services Manager, or their designee. This form may be duplicated if additional space is necessary, **all pages must be signed, and submitted.**

Subcontractor/Leased Operator Information Please provide business name and address, and a contact person.		Type of Work Supplied Describe the work the subcontractor/leased operator will perform for this contract.	MBE/WBE Business?	Dollar Amount	Subcontract Percent of Bid Total
Name	_____	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Address	_____				
City, State	_____				
Contact	_____				
Name	_____	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Address	_____				
City, State	_____				
Contact	_____				
Name	_____	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Address	_____				
City, State	_____				
Contact	_____				
Name	_____	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Address	_____				
City, State	_____				
Contact	_____				
Name	_____	_____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Address	_____				
City, State	_____				
Contact	_____				

The bidder intends to Subcontract/Lease Operators of Equipment for _____ % of the total contract with MBE/WBE firms.

Signed

Title

Date

Firms submitting bids must supply information on suppliers selected for the project specified. It is required that suppliers listed below will be utilized during construction should the firm be awarded a contract. Any deviations from the list below require notice in writing and approval by the Diversity Procurement Officer, Central Services Manager, or their designee. This form may be duplicated if additional space is necessary, all pages must be signed, and submitted.

Supplier Information		Type of Product Supplied	MBE/WBE Business?	Dollar Amount of Supply Contract	Supplier Percent of Bid Total
Please provide business name and address, and a contact person. Name _____ Address _____ City, State _____ Contact _____		Describe the product the supplier will provide for this contract. _____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Name _____ Address _____ City, State _____ Contact _____		_____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Name _____ Address _____ City, State _____ Contact _____		_____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Name _____ Address _____ City, State _____ Contact _____		_____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Name _____ Address _____ City, State _____ Contact _____		_____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %
Name _____ Address _____ City, State _____ Contact _____		_____ _____ _____	Y <input type="checkbox"/> N <input type="checkbox"/>	\$ _____	_____ %

The bidder intends to procure _____ % of the total contract from MBE/WBE firms.

 Signed _____ Title _____ Date _____



**Illinois Department
of Transportation**

Apprenticeship or
Training
Program Certification

Return with Bid

Route _____
County _____
Local _____
Section _____

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: _____

By: _____
(Signature)

Address: _____

Title: _____



Illinois Department of Transportation

Proposal Bid Bond

Local Agency

RETURN WITH BID

Route _____

County _____

Local Agency _____

Section _____

PAPER BID BOND

WE _____ **as PRINCIPAL,**

and _____ **as SURETY,**

are held jointly, severally and firmly bound unto the above Local Agency (hereafter referred to as "LA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly 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 is submitting a written proposal to the LA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

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

Principal

(Company Name)

(Company Name)

By: _____
(Signature and Title)

By: _____
(Signature and Title)

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

Surety

(Name of Surety)

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

STATE OF ILLINOIS,

COUNTY OF _____

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

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

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

Given under my hand and notarial seal _____ day of _____ this _____

My commission expires _____

(Notary Public)

ELECTRONIC BID

Electronic bid bond is allowed (box must be checked by LA if electronic bid bond is allowed)

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

(Company/Bidder Name)

(Signature and Title)

Date

Acknowledgement of Addenda

By signing below, we acknowledge receipt of the addenda listed.

Addendum _____ Date _____

Person, Firm, or Corporation

Authorized Signature and Title

SCHEDULE OF PRICES

City of Rockford



Proj. Name: PARK DECK SIGN INSTALL

Item No.	Items	Units	Quantity	Unit Price	Total
1	Wyman South - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Install	Each	1		
2	Wyman South - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Electric	Each	1		
3	Wyman South - 3' x 15' S/F Entry / Exit Sign Panel/ Frame - Install	Each	1		
4	Wyman South - 3' x 30' S/F Entry / Exit Sign Panel/ Frame w/ slide panel for rev. lane - Install	Each	1		
5	Church South - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Install	Each	1		
6	Church South - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Electric	Each	1		
7	Church South - 5' x 7' S/F Internal Illumin Blade Sign w/ 26" x 75" LED Message Ctr - Install	Each	1		
8	Church South - 5' x 7' S/F Internal Illumin Blade Sign w/ 26" x 75" LED Message Ctr - Electric	Each	1		
9	Church South - 3' x 30' S/F Non-Illuminated Aluminum Fabricated Sign Panel/ Frame	Each	1		
10	Church South - 10' x 26" x 18" D/F Internal Illuminated Blade Sign - Install	Each	1		
11	Church South - 10' x 26" x 18" D/F Internal Illuminated Blade Sign - Electric	Each	1		
12	Main North - 5' x 7' D/F Internal Illumin Blade Sign w/ D/F 26" x 75" LED Message Ctr - Install	Each	1		
13	Main North - 5' x 7' D/F Internal Illumin Blade Sign w/ D/F 26" x 75" LED Message Ctr - Electric	Each	1		
14	Main North - 3' x 30' S/F Entry / Exit Sign Panel/ Frame w/ sliding panel for reverse lane - Install	Each	1		
15	Main North - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Install	Each	1		
16	Main North - 14' x 3'x 18" D/F Internal Illuminated Blade Sign - Electric	Each	1		
17	Main North - 3' x 30' S/F Entry / Exit Sign Panel/ Frame - Install	Each	1		
18	State West - 5' x 7' D/F Intenal Illuminated Blade Sign w/ D/F 26" x 75" LED Message Ctr - Install	Each	1		
19	State West - 5' x 7' D/F Intenal Illuminated Blade Sign w/ D/F 26" x 75" LED Message Ctr - Electric	Each	1		
20	State West - 3' x 30' S/F Entry / Exit Sign Panel/ Frame - Install	Each	1		
21	Church South - Remove & Dispose of 21' x 4' x 18" Existing Blade Sign - Court St Entrance	Each	1		
22	Traffic Control	L. S.	1		
Page 1		Total Bid	As read As corrected		

**CITY OF ROCKFORD, ILLINOIS
PROPOSAL NO. _____**

BIDDER'S AFFIDAVIT

STATE OF _____

COUNTY OF _____

I, _____ (Name of party signing affidavit)

_____ (Title) being duly sworn do depose and say:

That material to be furnished for the above designated proposal number shall be supplies from bins, stockpiles or stock materials that conform to the specification set forth herein.

(Signature and title)

Sworn to be before me this _____ day of _____, 2014.

(Notary Public)

My commission expires _____.

(SEAL)



Illinois Department of Transportation

Bureau of Construction
2300 South Dirksen Parkway/Room 322
Springfield, Illinois 62764

Affidavit of Availability For the Letting of

Instructions: Complete this form by either typing or using black ink. "Authorization to Bid" will 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 owners estimate, and must include

	1	2	3	4	Awards	
County and Section Number						
Contract With						
Estimated Completion Date						
Total Contract Price						Accumulated Totals
Uncompleted Dollar Value if Firm is the Prime Contractor						
Uncompleted Dollar Value if Firm is the Subcontractor						
Total Value of All Work						

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

						Accumulated Totals
Earthwork						
Portland Cement Concrete Paving						
Bituminous Plant Mix						
Bituminous Aggregate Mixture						
Miscellaneous Bituminous Paving						
Clean & Seal Cracks/Joints						
Aggregate Bases & Surfaces						
Highway, R.R. and Waterway Structures						
Drainage						
Electrical						
Cover and Seal Coats						
Miscellaneous Concrete Construction						
Landscaping						
Fencing						
Guardrail						
Painting						
Signing						
Fabrication						
Building Construction						
Other Construction (List)						
Totals						

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.

	1	2	3	4	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					
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 _____ day of _____ Type or Print Name _____
Officer or Director

Signed _____

 Notary Public

My commission _____

(Notary Seal)

Company _____

Address _____

Section 3

General and Special Provisions



**Illinois Department
of Transportation**

Special Provisions

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted **January 1, 2012**, 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 **Parking Deck Signage Installation**, and in case of conflict with any part, or parts, of said Specifications, the said Special Provisions shall take precedence and shall govern.

GENERAL PROVISIONS

Herein after the terms "Owner", "Ownership", "City", "Engineer", or any derivatives of such shall mean the City of Rockford or its designated representative and the term "Contractor" shall mean the entity who proposes to perform the work herein described or its designated subcontractors.

The following Special Provisions supplement the said specifications and, in case of conflict with any part or parts of said specifications, these Special Provisions shall take precedence and shall govern:

GENERAL SPECIFICATIONS

DESCRIPTION OF WORK

This project consists of installing parking signage at four parking decks within the City.

Installation of the signage includes mounting the signage to the parking decks per included structural plans and installation of electrical power and communication to the sign through a new raceway system, that will be surface mounted in the deck.

Locations include the Church South Parking Deck, Wyman South Parking Deck, State West Parking Deck, and Main North Parking Deck.

CONTRACTOR EXPERIENCE

Contractor must have previous experience installing internally lit structural mounted signage to building or parking decks.

ELECTRICAL AND COMMUNICATION SUPPLY

This work shall consist of supplying all labor and materials needed to connect electricity to the seven signs requiring 120v power and all labor and materials needed to connect communication via ethernet cable to the three message center signs. Included in this work shall be installation of the surface mounted raceway system, connect to existing power and communication in the deck, termination of power and data to the signs and other work related items to complete the installation and make the signage operational. Power and communication shall be connected to signage per manufactures specifications. Electrical work must be performed by licensed electrician.

Signs should be installed per plans. Electrical installation shall be done per applicable state and local zones and the special provisions.

DISPOSAL OF EXISTING BLADE SIGN

Upon removal of the sign the Contractor shall deliver the existing sign to the City Sign Shop located at the City Yards at 505 S Independence Avenue, Rockford, IL 61102. Contactor will be responsible to repair any damage as a result of the signage removal.

TRAFFIC CONTROL AND PROTECTION

GENERAL PROVISIONS

Work shall consist of furnishing, installing and maintaining all signs, signals, temporary pavement markings, other required traffic control markings, barricades, warning lights, and other devices which are to be used to regulate, warn or guide traffic during construction of this improvement. All work shall be in conformance with the current edition of the Illinois Department of Transportation's Manual on Uniform Traffic Control Devices.

Contractor shall be required to furnish all traffic control devices necessary for the convenience and protection of vehicular and pedestrian traffic. Whenever the operation of the Contractor endangers or interferes with vehicular traffic or pedestrians, as determined by the Owner, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his workmen at no extra cost to satisfy the requirements of the Owner. The Contractor will be required to furnish the necessary flaggers as specified in the Plans or required by the Owner on a continuous basis whenever construction operations are in progress.

Contractor shall be responsible for the proper location, installation and arrangement of all traffic control devices furnished by him. Whenever operations indicate that relocation of a proposed or existing traffic control device is advisable, as determined by the Owner, the Contractor shall remove, relocate and reinstall the device in question.

All advance warning signs for lane closure, intermediate information signs and standard signs shall be installed in accordance with Illinois Highway Standard 702001-05. Cones will not be allowed as a traffic control device.

The "WORKERS" (W21-1a(0)-48) signs shall be replaced with symbol "Right or Left Lane Closed Ahead" (W4-2R or L (0)- 48) signs.

Daily or periodic lane closures shall be erected no earlier than 9:00 AM and shall be removed no later than 3:30 PM regardless of the day of the week. In the event that a lane closure will remain for more than one calendar day, the Contractor shall notify the Owner at least 6 hours in advance. Emergency lane closures shall be erected and removed at the explicit direction of the Owner.

All advance warning signs and traffic control devices shall be removed or covered by the Contractor when such signs and devices are not in effect or at the direction of the Owner.

If street closure is required for work, "No Parking" signs must be posted no more than 48 hours and no less than 24 hours prior to the start of work at that location. Signs should include time and date of closure along with time and date of expected re-opening of street. Signs must also include direct reference to City Ordinance 16-44.

Basic layout for traffic control devices shall be in accordance with Standards 701501-03, 701601-04, 701701-04, 701801-03, and 702001-05 as indicated in the Plans and Specifications.

Contractor shall be responsible for the maintenance of all traffic control devices installed by him as designated in the Plans and Specifications or as required by the Owner. The

GENERAL PROVISIONS

Contractor will provide surveillance of all barricades, barrels, warning signs and lights that he has installed on a 24-hour a day basis for each day of this contract. In the event of severe weather conditions, the Contractor shall be required to furnish any additional personnel required to maintain all traffic control devices as required by the Owner. Surveillance shall mean checking control devices periodically, but not less than once every 12 hours.

Contractor shall provide the City of Rockford with the name, address and telephone number of two (2) persons who will be responsible for maintaining the traffic control devices and who will be available to the City on an immediate basis 24 hours a day. If, for any reason, one or both of the persons become unavailable, the Contractor shall furnish the same information for other individuals who will be available.

Contractor shall be required to remove all traffic control devices which were furnished, installed or maintained by him under this contract and such devices shall remain the property of the Contractor upon said removal. All traffic control devices must remain in place until specific authorization for removal is received from the Owner.

During any construction, a minimum of one twelve (12) foot traffic lane in each direction shall be maintained. Any deviation from this requirement must be approved by Ownership, with detour signing provided by the Contractor at the request of the Owner. No extra compensation will be allowed for detour signing.

Contractor acknowledges that the nature of this project requires varying scopes of work at many locations throughout a large area. As such, no additional payment will be made on this lump sum item for any location additions or deletions or changes in scope of work at any particular location.

This work shall be paid for on a lump sum basis for the entire project.

PARKING DECK SIGNAGE INSTALLATION
CITY OF ROCKFORD
ROCKFORD, ILLINOIS

SPECIAL PROVISIONS

TABLE OF CONTENTS

DIVISION 16 - ELECTRICAL

16051	Common Work Results for Electrical
16060	Grounding and Bonding
16073	Hangers and Supports for Electrical Systems
16075	Electrical Identification
16120	Conductors and Cables
16130	Raceways and Boxes

END OF TABLE OF CONTENTS

SECTION 16051 - COMMON WORK RESULTS FOR ELECTRICAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Sleeves for raceways and cables.
 - 2. Sleeve seals.
 - 3. Grout.
 - 4. Common electrical installation requirements.

PART 2 - PRODUCTS

2.1 SLEEVES FOR RACEWAYS AND CABLES

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. Sleeves for Rectangular Openings: Galvanized sheet steel.
 - 1. Minimum Metal Thickness:
 - a. For sleeve cross-section rectangle perimeter less than 50 inches (1270 mm) and no side more than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).

2.2 SLEEVE SEALS

- A. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Advance Products & Systems, Inc.
 - b. Calpico, Inc.
 - c. Metraflex Co.
 - d. Pipeline Seal and Insulator, Inc.
 - 2. Sealing Elements: EPDM or NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.

3. Pressure Plates: Stainless steel. Include two for each sealing element.
4. Connecting Bolts and Nuts: Stainless steel of length required to secure pressure plates to sealing elements. Include one for each sealing element.

2.3 GROUT

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

PART 3 - EXECUTION

3.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

- A. Comply with NECA 1.
- B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.
- D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.
- E. Right of Way: Give to piping systems installed at a required slope.

3.2 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

- A. Electrical penetrations occur when raceways, cables, wireways, cable trays, or busways penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- D. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- E. Cut sleeves to length for mounting flush with both surfaces of walls.
- F. Extend sleeves installed in floors 2 inches above finished floor level.

- G. Size pipe sleeves to provide 1/4-inch annular clear space between sleeve and raceway or cable, unless indicated otherwise.
- H. Seal space outside of sleeves with grout for penetrations of concrete and masonry
 - I. Promptly pack grout solidly between sleeve and wall so no voids remain. Tool exposed surfaces smooth; protect grout while curing.
- I. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint.
- J. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials.
- K. Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.
- L. Aboveground, Exterior-Wall Penetrations: Seal penetrations using steel pipe sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- M. Underground, Exterior-Wall Penetrations: Install cast-iron pipe sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between raceway or cable and sleeve for installing mechanical sleeve seals.

3.3 SLEEVE-SEAL INSTALLATION

- A. Install to seal exterior wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for raceway or cable material and size. Position raceway or cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway or cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.4 FIRESTOPPING

- A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical installations to restore original fire-resistance rating of assembly.

END OF SECTION 16051

SECTION 16060 - GROUNDING AND BONDING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes methods and materials for grounding systems and equipment.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Field quality-control test reports.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.1 CONDUCTORS

- A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
 - 1. Solid Conductors: ASTM B 3.
 - 2. Stranded Conductors: ASTM B 8.
 - 3. Tinned Conductors: ASTM B 33.
 - 4. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch (6 mm) in diameter.
 - 5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
 - 6. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.
 - 7. Tinned Bonding Jumper: Tinned-copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.

2.2 CONNECTORS

- A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.
- B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.
 - 1. Pipe Connectors: Clamp type, sized for pipe.
- C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING ELECTRODES

- A. Ground Rods: Copper-clad steel, 3/4 inch by 10 feet in length.

PART 3 - EXECUTION

3.1 APPLICATIONS

- A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.
- B. Isolated Grounding Conductors: Green-colored insulation with continuous yellow stripe. On feeders with isolated ground, identify grounding conductor where visible to normal inspection, with alternating bands of green and yellow tape, with at least three bands of green and two bands of yellow.
- C. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Underground Connections: Welded connectors, except at test wells and as otherwise indicated.
 - 3. Connections to Structural Steel: Welded connectors.

3.2 EQUIPMENT GROUNDING

- A. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
 - 1. Feeders and branch circuits.
- B. Water Heater, Heat-Tracing, and Antifrost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.

3.3 INSTALLATION

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
- B. Ground Rods: Drive rods until tops are 2 inches (50 mm) below finished floor or final grade, unless otherwise indicated.
 - 1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
 - 2. For grounding electrode system, install at least three rods spaced at least one-rod length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.
- C. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.
 - 1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
 - 2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
 - 3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.
- D. Grounding and Bonding for Piping:
 - 1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
 - 2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
 - 3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.
- E. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.

END OF SECTION 16060

SECTION 16073 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Hangers and supports for electrical equipment and systems.
 - 2. Construction requirements for concrete bases.

1.2 PERFORMANCE REQUIREMENTS

- A. Design supports for multiple raceways capable of supporting combined weight of supported systems and its contents.
- B. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
- C. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project, with a minimum structural safety factor of five times the applied force.

1.3 QUALITY ASSURANCE

- A. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allied Tube & Conduit.
 - b. Cooper B-Line, Inc.; a division of Cooper Industries.
 - c. ERICO International Corporation.
 - d. GS Metals Corp.
 - e. Thomas & Betts Corporation.
 - f. Unistrut; Tyco International, Ltd.

- g. Wesanco, Inc.
2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
 3. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.
 4. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
 5. Channel Dimensions: Selected for applicable load criteria.
- B. Raceway and Cable Supports: As described in NECA 1 and NECA 101.
 - C. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
 - D. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.
 - E. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.
 - F. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
 1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
 - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1) Hilti Inc.
 - 2) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
 - 3) MKT Fastening, LLC.
 - 4) Simpson Strong-Tie Co., Inc.; Masterset Fastening Systems Unit.
 2. Mechanical-Expansion Anchors: Insert-wedge-type, stainless steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
 - a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1) Cooper B-Line, Inc.; a division of Cooper Industries.
 - 2) Empire Tool and Manufacturing Co., Inc.
 - 3) Hilti Inc.
 - 4) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.

5) MKT Fastening, LLC.

3. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
4. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
6. Toggle Bolts: All-steel springhead type.
7. Hanger Rods: Threaded steel.

2.2 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.
- B. Materials: Comply with requirements in Division 5 Section "Metal Fabrications" for steel shapes and plates.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
- B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as required by NFPA 70. Minimum rod size shall be 1/4 inch (6 mm) in diameter.
- C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
 1. Secure raceways and cables to these supports with single-bolt conduit clamps using spring friction action for retention in support channel.
- D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2-inch (38-mm) and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

3.2 SUPPORT INSTALLATION

- A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
- B. Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.

- C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).
- D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
 - 1. To Wood: Fasten with lag screws or through bolts.
 - 2. To New Concrete: Bolt to concrete inserts.
 - 3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.
 - 4. To Existing Concrete: Expansion anchor fasteners.
 - 5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches (100 mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches (100 mm) thick.
 - 6. To Steel: Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.
 - 7. To Light Steel: Sheet metal screws.
 - 8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate.
- E. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

3.3 INSTALLATION OF FABRICATED METAL SUPPORTS

- A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.
- B. Field Welding: Comply with AWS D1.1/D1.1M.

3.4 CONCRETE BASES

- A. Construct concrete bases of dimensions indicated but not less than 4 inches (100 mm) larger in both directions than supported unit, and so anchors will be a minimum of 10 bolt diameters from edge of the base.
- B. Use 3000-psi, 28-day compressive-strength concrete.
- C. Anchor equipment to concrete base.
 - 1. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - 2. Install anchor bolts to elevations required for proper attachment to supported equipment.
 - 3. Install anchor bolts according to anchor-bolt manufacturer's written instructions.

3.5 PAINTING

- A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
 - 1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils (0.05 mm).
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

END OF SECTION 16073

SECTION 16075 - ELECTRICAL IDENTIFICATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Identification for raceways.
2. Identification of power and control cables.
3. Identification for conductors.
4. Warning labels and signs.
5. Instruction signs.
6. Equipment identification labels.
7. Miscellaneous identification products.

1.2 SUBMITTALS

- ##### A. Product Data: For each electrical identification product indicated.

1.3 QUALITY ASSURANCE

- ##### A. Comply with ANSI A13.1.
- ##### B. Comply with NFPA 70.
- ##### C. Comply with 29 CFR 1910.144 and 29 CFR 1910.145.
- ##### D. Comply with ANSI Z535.4 for safety signs and labels.
- ##### E. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.

PART 2 - PRODUCTS

2.1 POWER RACEWAY IDENTIFICATION MATERIALS

- ##### A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway size.
- ##### B. Colors for Raceways Carrying Circuits at 600 V or Less:
1. Black letters on an orange field.
 2. Legend: Indicate voltage.
- ##### C. Self-Adhesive Vinyl Labels for Raceways Carrying Circuits at 600 V or Less: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.

- D. Snap-Around Labels for Raceways Carrying Circuits at 600 V or Less: Slit, pretensioned, flexible, preprinted, color-coded acrylic sleeve, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- E. Snap-Around, Color-Coding Bands for Raceways Carrying Circuits at 600 V or Less: Slit, pretensioned, flexible, solid-colored acrylic sleeve, 2 inches (50 mm) long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.
- F. Write-On Tags: Polyester tag, 0.010 inch thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.
 - 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.
 - 2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.

2.2 CONDUCTOR IDENTIFICATION MATERIALS

- A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils (0.08 mm) thick by 1 to 2 inches (25 to 50 mm) wide.
- B. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.
- C. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.
- D. Write-On Tags: Polyester tag, 0.010 inch thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.
 - 1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.
 - 2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.

2.3 EQUIPMENT IDENTIFICATION LABELS

- A. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).

2.4 MISCELLANEOUS IDENTIFICATION PRODUCTS

- A. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.

- B. Apply identification devices to surfaces that require finish after completing finish work.
- C. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.
- D. Attach signs and plastic labels that are not self-adhesive type with mechanical fasteners appropriate to the location and substrate.
- E. System Identification Color-Coding Bands for Raceways and Cables: Each color-coding band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot (15-m) maximum intervals in straight runs, and at 25-foot (7.6-m) maximum intervals in congested areas.

3.2 IDENTIFICATION SCHEDULE

- A. Accessible Raceways, 600 V or Less, for Service, Feeder, and Branch Circuits More Than 30 A, and 120 V to ground: Install labels at 30-foot maximum intervals.
- B. Accessible Raceways and Cables within Buildings: Identify the covers of each junction and pull box of the following systems with self-adhesive vinyl labels with the wiring system legend and system voltage. System legends shall be as follows:
 - 1. Emergency Power.
 - 2. Power.
- C. Power-Circuit Conductor Identification, 600 V or Less: For conductors in vaults, pull and junction boxes, manholes, and handholes, use color-coding conductor tape to identify the phase.
 - 1. Color-Coding for Phase and Voltage Level Identification, 600 V or Less: Use colors listed below for ungrounded service, feeder, and branch-circuit conductors.
 - a. Color shall be factory applied or field applied for sizes larger than No. 8 AWG, if authorities having jurisdiction permit.
 - b. Colors for 208/120-V Circuits:
 - 1) Phase A: Black.
 - 2) Phase B: Red.
 - 3) Phase C: Blue.
 - c. Colors for 480/277-V Circuits:
 - 1) Phase A: Brown.
 - 2) Phase B: Orange.
 - 3) Phase C: Yellow.
 - d. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches (150 mm) from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- D. Install instructional sign including the color-code for grounded and ungrounded conductors using adhesive-film-type labels.
- E. Conductors to Be Extended in the Future: Attach write-on tags to conductors and list source.

- F. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, and signal connections.
1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
 2. Use system of marker tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
 3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual.
- G. Operating Instruction Signs: Install instruction signs to facilitate proper operation and maintenance of electrical systems and items to which they connect. Install instruction signs with approved legend where instructions are needed for system or equipment operation.
- H. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and the Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.
1. Labeling Instructions:
 - a. Indoor Equipment: Self-adhesive, engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch- (13-mm-) high letters on 1-1/2-inch- (38-mm-) high label; where two lines of text are required, use labels 2 inches (50 mm) high.
 - b. Outdoor Equipment: Engraved, laminated acrylic or melamine label.
 - c. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
 - d. Unless provided with self-adhesive means of attachment, fasten labels with appropriate mechanical fasteners that do not change the NEMA or NRTL rating of the enclosure.

END OF SECTION 16075

SECTION 16120 - CONDUCTORS AND CABLES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Building wires and cables rated 600 V and less.
 - 2. Connectors, splices, and terminations rated 600 V and less.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Field quality-control test reports.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 CONDUCTORS AND CABLES

- A. Copper Conductors: Comply with NEMA WC 70.
- B. Conductor Insulation: Comply with NEMA WC 70 for Types THHN-THWN.

2.2 CONNECTORS AND SPLICES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. AFC Cable Systems, Inc.
 - 2. Hubbell Power Systems, Inc.
 - 3. O-Z/Gedney; EGS Electrical Group LLC.
 - 4. 3M; Electrical Products Division.
 - 5. Tyco Electronics Corp.

- B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

PART 3 - EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

- A. Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.
- B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION

- A. Service Entrance, Feeders and Branch Circuits: Type THHN-THWN, single conductors in raceway.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

- A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.
- E. Support cables according to Division 16 Section "Electrical Supports."
- F. Identify and color-code conductors and cables according to Division 16 Section "Electrical Identification."
- G. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
- H. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.

END OF SECTION 16120

SECTION 16130 - RACEWAYS AND BOXES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

1.2 SUBMITTALS

- A. Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.
- B. Shop Drawings: For custom enclosures and cabinets. Include plans, elevations, sections, details, and attachments to other work.

1.3 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. Rigid Steel Conduit: ANSI C80.1.
- B. IMC: ANSI C80.6.
- C. EMT: ANSI C80.3.
- D. FMC: Zinc-coated steel.
- E. LFMC: Flexible steel conduit with PVC jacket.
- F. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.
 - 1. Conduit Fittings for Hazardous (Classified) Locations: Comply with UL 886.
 - 2. Fittings for EMT: Steel compression type.

2.2 NONMETALLIC CONDUIT

- A. ENT: NEMA TC 13.
- B. RNC: NEMA TC 2, Type EPC-40-PVC, unless otherwise indicated.
- C. LFNC: UL 1660.
- D. Fittings for RNC: NEMA TC 3; match to conduit or tubing type and material.

2.3 METAL WIREWAYS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cooper B-Line, Inc.
 - 2. Hoffman.
 - 3. Square D; Schneider Electric.
- B. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1, unless otherwise indicated.
- C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.
- D. Wireway Covers: Hinged type.
- E. Finish: Manufacturer's standard enamel finish.

2.4 BOXES, ENCLOSURES, AND CABINETS

- A. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
- B. Cast-Metal Outlet and Device Boxes: NEMA FB 1, ferrous alloy, Type FD, with gasketed cover.
- C. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- D. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, cast aluminum with gasketed cover.
- E. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.
 - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
- F. Cabinets:

1. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
2. Hinged door in front cover with flush latch and concealed hinge.
3. Key latch to match panelboards.
4. Metal barriers to separate wiring of different systems and voltage.
5. Accessory feet where required for freestanding equipment.

PART 3 - EXECUTION

3.1 RACEWAY APPLICATION

- A. Outdoors including the parking deck area: Apply raceway products as specified below, unless otherwise indicated:
 1. Exposed Conduit: Galvanized Rigid steel conduit to 8 feet above floor RNC, Type EPC-40-PVC above 8 feet.
 2. Concealed Conduit, Aboveground: Rigid steel conduit.
 3. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
 4. Boxes and Enclosures, Aboveground: NEMA 250, Type 4.
- B. Comply with the following indoor applications, unless otherwise indicated:
 1. Exposed, Not Subject to Physical Damage: EMT.
- C. Minimum Raceway Size: 3/4-inch trade size.
- D. Raceway Fittings: Compatible with raceways and suitable for use and location.
 1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.

3.2 INSTALLATION

- A. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.
- B. Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
- C. Complete raceway installation before starting conductor installation.
- D. Support raceways as specified in Division 16 Section "Electrical Supports."
- E. Arrange stub-ups so curved portions of bends are not visible above the finished slab.
- F. Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.

- G. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.
- H. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.
- I. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb (90-kg) tensile strength. Leave at least 12 inches (300 mm) of slack at each end of pull wire.
- J. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:
 - 1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
 - 2. Where otherwise required by NFPA 70.
- K. Expansion-Joint Fittings for RNC: Install in each run of aboveground conduit that is located where environmental temperature change may exceed 30 deg F (17 deg C), and that has straight-run length that exceeds 25 feet (7.6 m).
 - 1. Install expansion-joint fittings for each of the following locations, and provide type and quantity of fittings that accommodate temperature change listed for location:
 - a. Outdoor Locations Not Exposed to Direct Sunlight: 125 deg F temperature change.
 - b. Outdoor Locations Exposed to Direct Sunlight: 155 deg F temperature change.
 - 2. Install fitting(s) that provide expansion and contraction for at least 0.00041 inch per foot of length of straight run per deg F of temperature change.
 - 3. Install each expansion-joint fitting with position, mounting, and piston setting selected according to manufacturer's written instructions for conditions at specific location at the time of installation.
- L. Flexible Conduit Connections: Use maximum of 72 inches (1830 mm) of flexible conduit for equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
 - 1. Use LFMC in damp or wet locations subject to severe physical damage.
 - 2. Use LFMC or LFNC in damp or wet locations not subject to severe physical damage.

END OF SECTION 16130

Z:\JOBS\ROCKFORD PARKING GARAGE\SIGN TYPE 1

SPECIFICATIONS QTY. 3 D/F 3 LOCATIONS

CABINET
 FABRICATED ALUMINUM CABINET W/1 1/2" ALUMINUM ANGLE FRAME. BODY TO HAVE .090 ALUMINUM. RETAINERS TO BE 2" ALUMINUM ANGLE. CABINET & RETAINERS TO BE PAINTED BLACK.

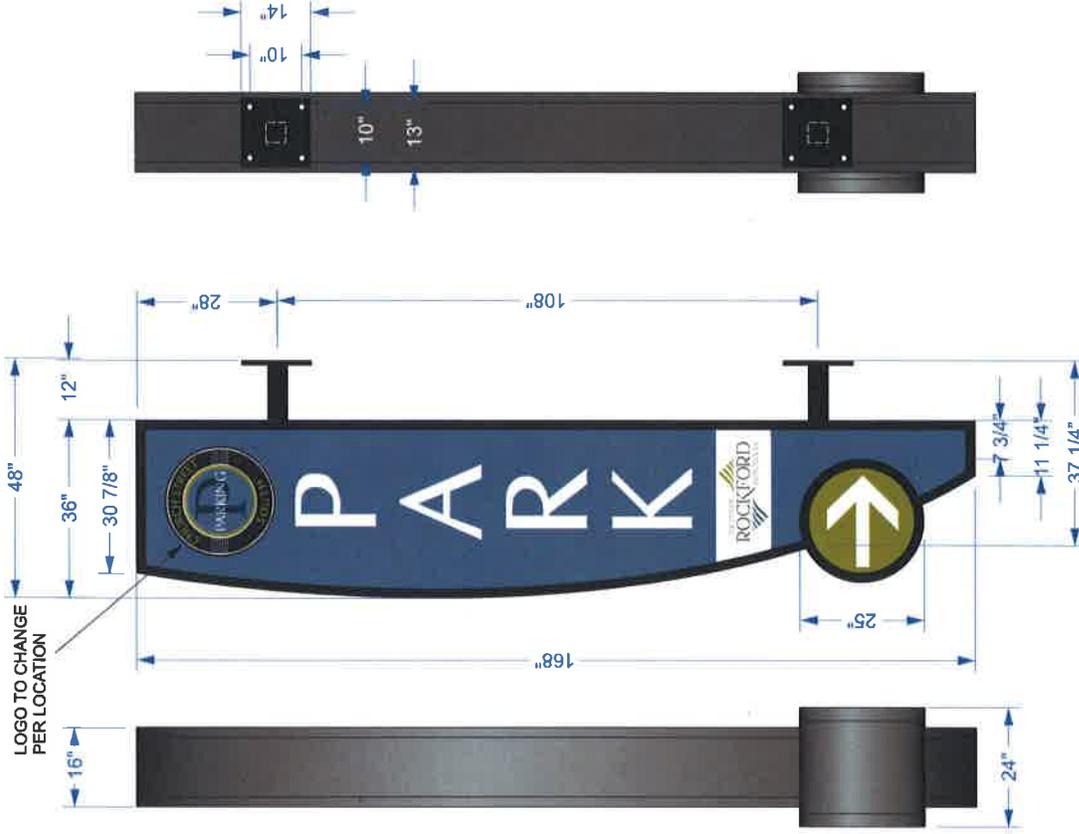
FACES
 FACES TO BE FLAT POLYCARBONATE W/DIGITAL VINYL GRAPHICS.

ILLUMINATION
 INTERNAL ILLUMINATION BY WHITE LEDS.

MOUNTING
 CABINET TO HAVE 4" X 4" STEEL TUBE SUPPORT W/14" X 14" X 1" MOUNTING PLATES. PLATES TO HAVE 4 - 7/8" DIA. HOLES DRILLED TO ACCEPT 3/4" DIA. ANCHORS.



- BLACK
- WHITE
- PMS 5405C
- PMS 547C
- PMS 582C
- C:61 M:52 Y:52 K:22



Project: _____

Date: **4.4.14**

Approval: _____

Name: _____

Date: _____

Notes: _____

Electrical Components	
Qty.	Item # / Model / Brand
Lamp	
LED'S	
Power Supply	
Bulb/ast	
Toggle Switch	
Misc	



SPECIFICATIONS QTY. 1 S/F

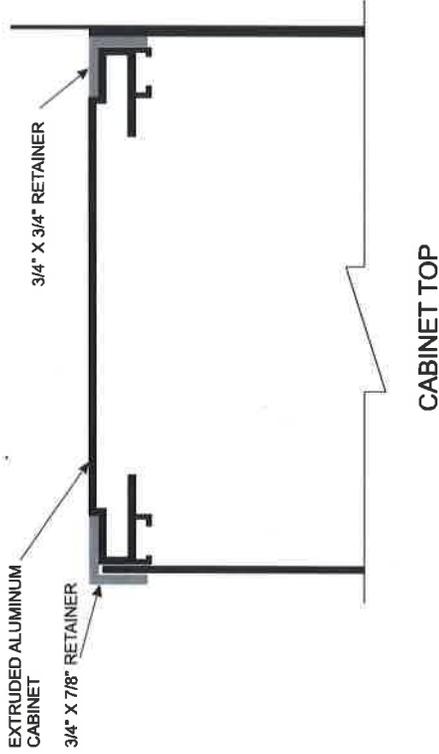
CABINET
 EXTRUDED ALUMINUM CABINET W/3/4" ALUMINUM
 RETAINERS. CABINET & RETAINERS TO BE PAINTED BLACK.

FACE
 FACE TO BE FLAT POLYCARBONATE W/DIGITAL
 VINYL GRAPHICS.

REVEAL
 1.1/2" FABRICATED ALUMINUM REVEAL PAINTED BLACK.

MESSAGE CENTER
 16MM 32 X 96 RED LED MESSAGE CENTER.
 MESSAGE CENTER TO HAVE FABRICATED ALUMINUM
 FILLERS @ ENDS PAINTED BLACK.

MOUNTING
 SIGN TO BE MOUNTED THRU BACK OF SIGN TO WALL.



BLACK
 WHITE
 PMS 5405C
 PMS 547C
 PMS 562C
 C:61 M:52 Y:52 K:22

Project:

Date: **5.7.14**

Approval:
 Name:
 Date:

Notes:

Electrical Components

Qty.	Item #	Notes
Lamp		
LED'S		
Power Supply		
Ballast		
Toggle Switch		
Misc		

UNIVERSAL SIGN SYSTEMS
 5691 Adams Avenue St. Charles, Missouri 63043
 Phone: 616.554.9999 Fax: 616.554.9922

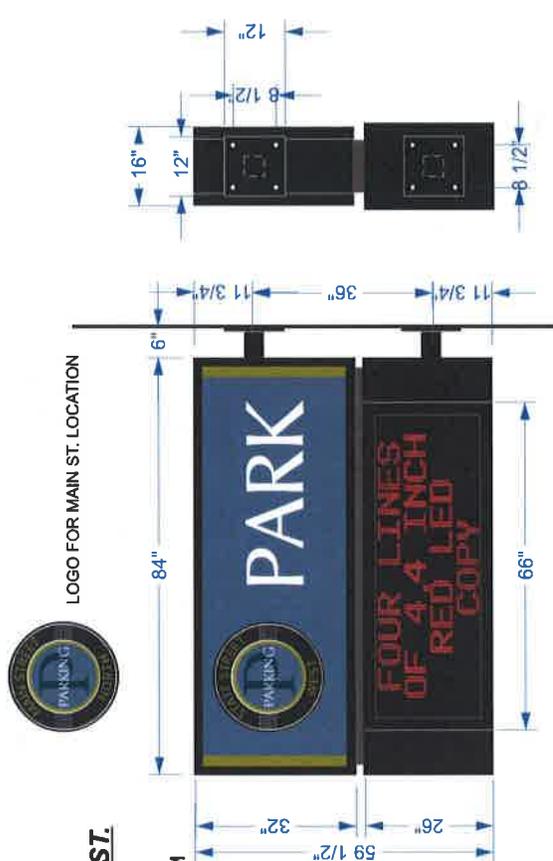
Project:

Date: **5.7.14**

Approval:
Name: _____
Date: _____

Notes:

Electrical Components	
Qty	Item # / Utility Range
	Lamp
	LED'S
	Power Supply
	Ballast
	Toggle Switch
	Misc



- BLACK
- WHITE
- PMS 5405C
- PMS 547C
- PMS 582C
- C:61 M:52 Y:52 K:22

SPECIFICATIONS QTY. 2 D/F 1 MAIN ST. 1 STATE ST.

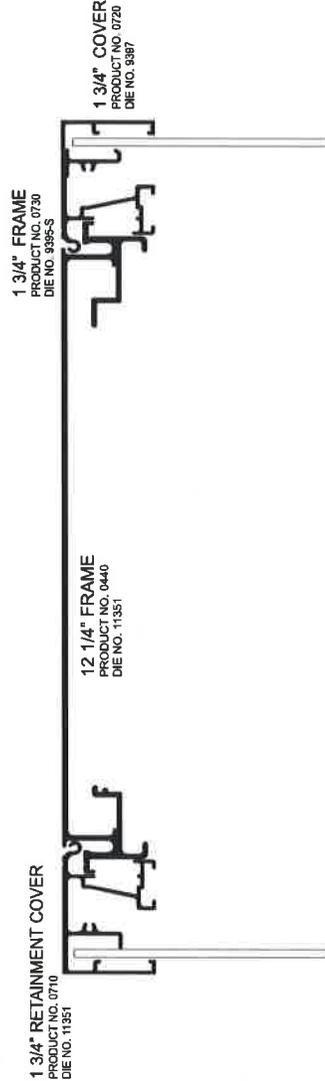
CABINET
16" DEEP D/F EXTRUDED ALUMINUM CABINET W/1.3/4" ALUMINUM RETAINERS. CABINET & RETAINERS TO BE PAINTED BLACK.

FACE
FACE TO BE FLAT POLYCARBONATE W/DIGITAL VINYL GRAPHICS.

REVEAL
2" FABRICATED ALUMINUM REVEAL PAINTED BLACK.

MESSAGE CENTER
16MM 32 X 96 RED LED MESSAGE CENTER. MESSAGE CENTER TO HAVE FABRICATED ALUMINUM FILLERS @ ENDS PAINTED BLACK.

MOUNTING
CABINET TO HAVE 4" X 4" STEEL TUBE SUPPORT W/12" X 12" X 3/4" MOUNTING PLATES. PLATES TO HAVE 4 - 7/8" DIA. HOLES DRILLED TO ACCEPT 3/4" DIA. ANCHORS.



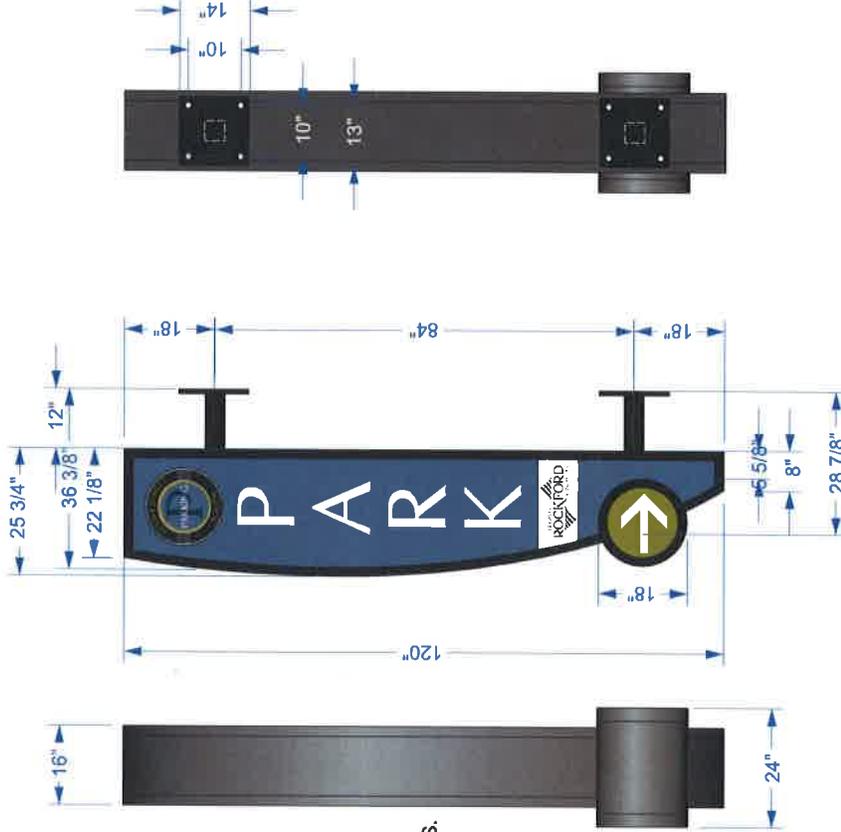
SPECIFICATIONS QTY. 1 D/E

CABINET
 FABRICATED ALUMINUM CABINET W/1.1/2" ALUMINUM ANGLE FRAME. BODY TO HAVE .090 ALUMINUM. RETAINERS TO BE 2" ALUMINUM ANGLE. CABINET & RETAINERS TO BE PAINTED BLACK.

FACES
 FACES TO BE FLAT POLYCARBONATE W/DIGITAL VINYL GRAPHICS.

ILLUMINATION
 INTERNAL ILLUMINATION BY WHITE LEDS.

MOUNTING
 CABINET TO HAVE 4" X 4" STEEL TUBE SUPPORT W/1/4" X 1/4" X 1" MOUNTING PLATES. PLATES TO HAVE 4 - 7/8" DIA. HOLES DRILLED TO ACCEPT 3/4" DIA. ANCHORS.



Color and material specifications:

- BLACK
- WHITE
- PMS 5405C
- PMS 547C
- PMS 582C
- C:61 M:52 Y:52 K:22

Project:

Date: **5.7.14**

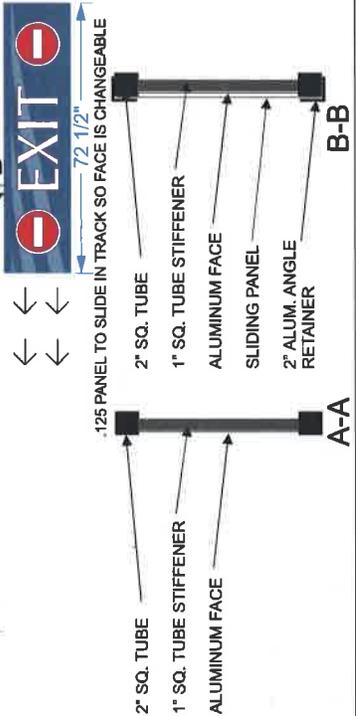
Approval:
 Name: _____
 Date: _____

Notes:

Electrical Components	
Qty.	Item # / Voltage / Amps
	Lamp
	LEDs
	Power Supply
	Ballast
	Toggle Switch
	Misc

UNIVERSAL
 SIGNS & SYSTEMS
 5811 Fabian Ave. SE, Grand Rapids, MI 49517
 www.universalsigns.com
 Ph: 616.554.9999 Fax: 616.554.9922

FIELD MEASUREMENT REQUIRED



SPECIFICATIONS QTY. 4 S/F

- FRAME**
FABRICATED ALUMINUM FRAME W/2" ALUMINUM TUBE FRAME. FRAME TO BE PAINTED BLACK.
- PANELS**
PANELS TO BE .125 ALUMINUM W/DIGITAL VINYL GRAPHICS.
PANELS TO BE MOUNTED INSET 1/8" TO TUBE FRAME.
- LOGO**
LOGO TO BE 1/4" PLATE ALUMINUM W/DIGITAL GRAPHICS.
- MOUNTING**
FRAME TO BE MOUNTED IN DOORWAY TO COLUMNS & HEADER.

BLACK	PMS 5405C
WHITE	PMS 547C
	PMS 582C
	C:61 M:52 Y:52 K:22

Project: _____

Date: **5.7.14**

Approval: _____

Name: _____

Date: _____

Notes: _____

Electrical Components	
Qty.	Item # / Model / Brand
Lamp	
LED'S	
Power Supply	
Ballast	
Toggle Switch	
Misc	



Project: _____

Date: **5.7.14**

Approval: _____

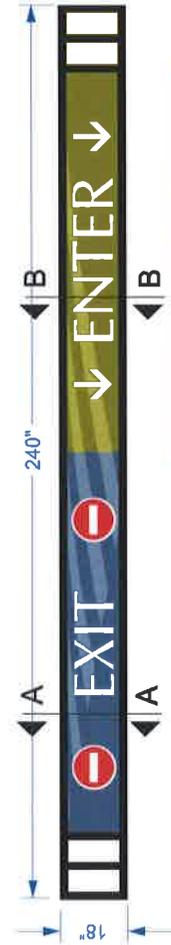
Name: _____

Date: _____

Notes: _____

Electrical Components

Qty.	Item #	Model / Amps
	Lamp	
	LED'S	
	Power Supply	
	Ballast	
	Toggle Switch	
	Misc	



.125 PANEL TO SLIDE IN TRACK SO FACE IS CHANGEABLE

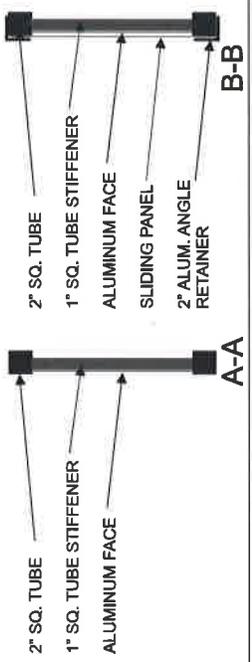
FIELD MEASUREMENT REQUIRED

SPECIFICATIONS QTY. 2 S/F

FRAME
FABRICATED ALUMINUM FRAME W/2" ALUMINUM TUBE FRAME. FRAME TO BE PAINTED BLACK.

PANELS
PANELS TO BE .125 ALUMINUM W/DIGITAL VINYL GRAPHICS.
PANELS TO BE MOUNTED TO FACE OF TUBE FRAME.

MOUNTING
FRAME TO BE MOUNTED IN DOORWAY TO COLUMNS & HEADER.



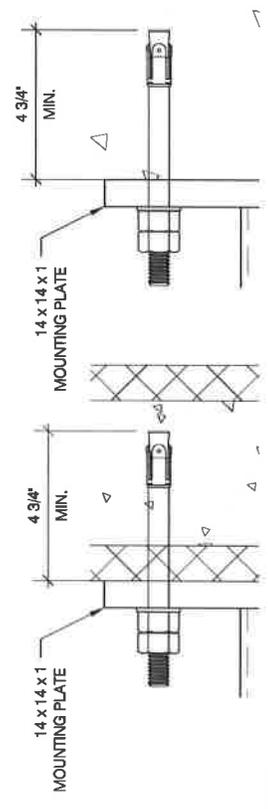
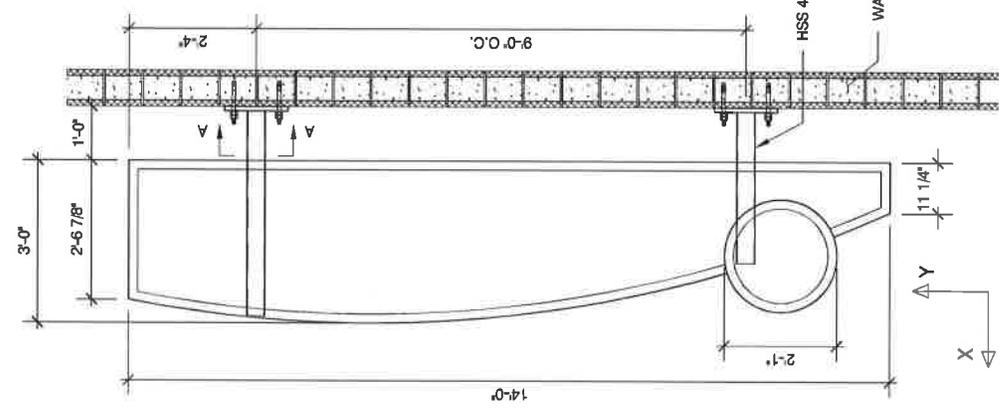
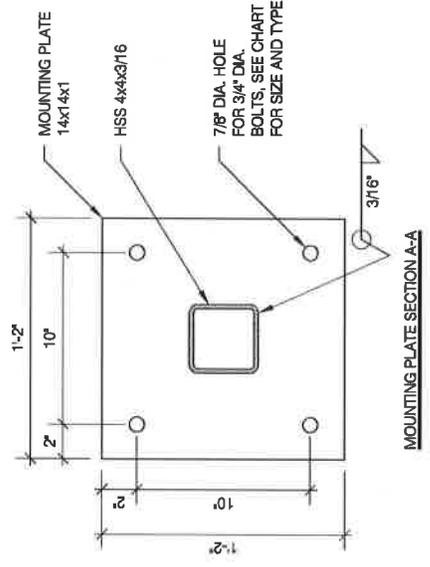
- BLACK
- WHITE
- PMS 5405C
- PMS 547C
- PMS 582C
- C:61 M:52 Y:52 K:22

* MANUFACTURER - UNIVERSAL SIGN SYSTEMS
 • 2009 IBC
 • 90 MPH WIND SPEED, EXP. C

NOTES
 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.

MAX REACTIONS PER CONNECTION

$V_y = 205 \#$
 $V_z = 559 \#$
 $M_z = 7,950 \# - \text{in}$
 $M_y = 16,758 \# - \text{in}$



FASTENER CHART	MIN EMBED	MIN EDGE DISTANCE
1 3/4" Ø THRU BOLT	HOLLOW CMU	---
2 3/4" Ø HILTI KWIK BOLT 3	MASONRY (FILLED)	4 3/4"
3 3/4" Ø HILTI KWIK BOLT 3	CONCRETE	4 3/4"



DRAWING NO. DWG. 1

DATE: 04/17/2014
 REV. # DATE

DESIGNED BY: GAO
 CHECKED BY: RJD
 COMM. NO. 140242.01

PROJECT: Rockford, IL
 DRAWING TITLE: Rockford Parking Garage

PROTECT: Rockford, IL
 DRAWING TITLE: Rockford Parking Garage

MBI
 michael brady inc.
 sign engineering
 structural engineering

KNOXVILLE OFFICE
 299 WEISSGARDNER RD.
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-584-0699
 FAX 865-584-5213

SIGN TYPE 1

SIGN SPECIFICATIONS
 REFER TO SIGN COMPANYS DRAWING(S) FOR MORE DETAILS.
 ALL DESIGNS, DETAILING, FABRICATION AND CONSTRUCTION
 SHALL CONFORM TO:

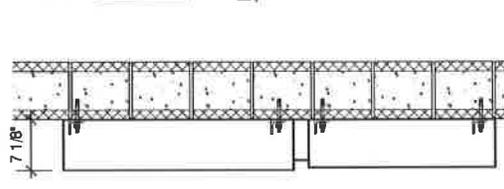
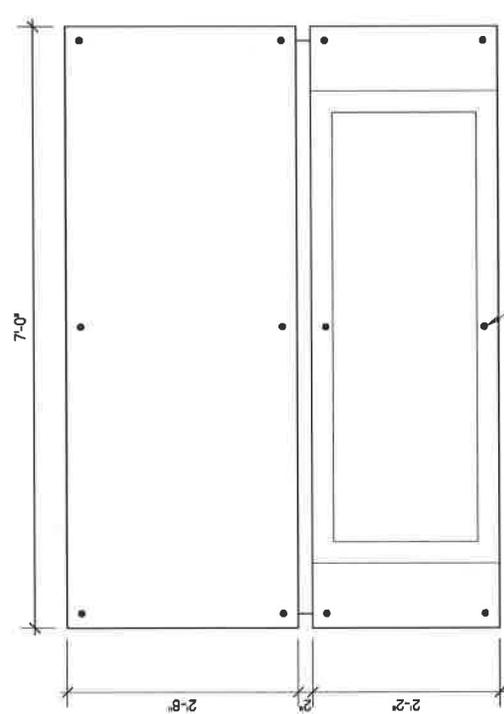
- 2009 IBC
- ACI 318-08
- AISC
- AMERICAN WELDING SOCIETY
- LOCAL BUILDING CODES & ORDINANCES
- STEEL PIPE: ASTM A53 GRADE B
- STEEL TUBE: ASTM A500 GRADE B
- CONNECTION BOLTS: ASTM A193 GRADE B7
- STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES, & PLATES:
- ASTM A36

WELDING ELECTRODES: E70XX
 WELDERS SHALL BE CERTIFIED FOR TYPE OF WELDING.
 THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF
 DIMENSIONS FURNISHED BY OTHERS.
 ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL
 PAINT TO PROHIBIT CORROSION.
 MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOB
 SITE SAFETY.
 THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND
 SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT
 WRITTEN PERMISSION OF THE ENGINEER.
 DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN,
 ARE BY OTHERS.

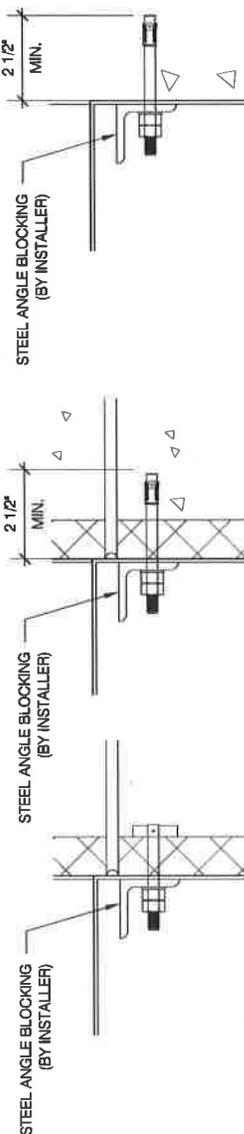
INSTALLED FASTENERS MUST MEET OR EXCEED THE VALUES
 SHOWN IN THE LIST ON THE CALCULATIONS SHEET.
 ANCHOR BOLTS SHALL BE STAINLESS STEEL.
 WALL SIGNS ATTACHED TO EXTERIOR WALLS OF SOLID
 MASONRY OR CONCRETE, SHALL BE SAFELY AND

SECURELY ATTACHED BY MEANS OF METAL ANCHORS,
 BOLTS OR EXPANSION BOLTS OF NOT LESS THAN 3/8"
 DIAMETER.
 EXCEPT IN THE CASE OF WALL SIGNS ATTACHED TO
 BUILDINGS WITH WALLS OF WOOD.
 A WALL SIGN SHALL NOT BE SUPPORTED BY ANCHORAGE
 SECURED TO AN UNBRACED PARAPET WALL. LAG BOLT
 ANCHORAGE INTO WOOD 3" MIN. EMBEDMENT.
 A THREADED ROD MAY BE USED FOR THRU BOLT CONNECTION.
 (USE WASHER AND DOUBLE NUT OR CRIMP THREADS
 BOTH ENDS TYP.)
 SIGN MUST BE ATTACHED TO OR THROUGH SOLID BLOCKING.
 ATTACHMENT TO SHEATHING ONLY IS NOT ACCEPTABLE.
 AT E.L.F.S. INSTALLATIONS INSTALL WITH PIPE SLEEVE. SEAL ALL
 PENETRATIONS.

THIS DESIGN FOR ANCHORAGE TO EXISTING STRUCTURE ONLY.
 BUILDING DESIGNER TO VERIFY ADEQUACY OF STRUCTURE
 TO RESIST THE ADDITIONAL LOADING. THIS ENGINEER NOT
 RESPONSIBLE FOR EXISTING STRUCTURE.
 CHANNEL LETTERS AND WALL SIGNS ARE BY OTHERS
 ELECTRICAL RACEWAYS ARE BY OTHERS.



RECOMMENDED LOCATIONS FOR
 FASTENERS - SEE CHART FOR SIZE AND
 TYPE (12 REQD)



① 3/8" Ø LIBERTY ANCHOR

② 3/8" Ø HILTI KWIK BOLT 3

③ 3/8" Ø HILTI KWIK BOLT 3

FASTENER CHART			
	MIN EMBED	MIN EDGE DISTANCE	
1 3/8" Ø LIBERTY ANCHOR	HOLLOW CMU	2 1/2"	4"
2 3/8" Ø HILTI KWIK BOLT 3	MASONRY (FILLED)	2 1/2"	4"
3 3/8" Ø HILTI KWIK BOLT 3	CONCRETE	2 1/2"	4"

* MANUFACTURER - UNIVERSAL SIGN SYSTEMS
 * 2009 IBC
 * 90 MPH WIND SPEED, EXP. C

NOTES
 1.) SEE MANUFACTURERS DRAWINGS
 FOR ADDITIONAL DETAIL AND
 DIMENSIONS.

MAX REACTIONS PER CONNECTION

$$F_y = 15 \#$$

$$F_x = 65 \#$$

SIGN TYPE 2



DRAWING NO. **DWG. 2**

DATE:	04/17/2014
REV. #	DATE

PROJECT: **Rockford, IL**

DRAWN BY: **GAO** RJD
 CHECKED BY: **RJD**
 CDRAW NO. **140242.01**

DRIVING TITLE: **Rockford Parking Garage**

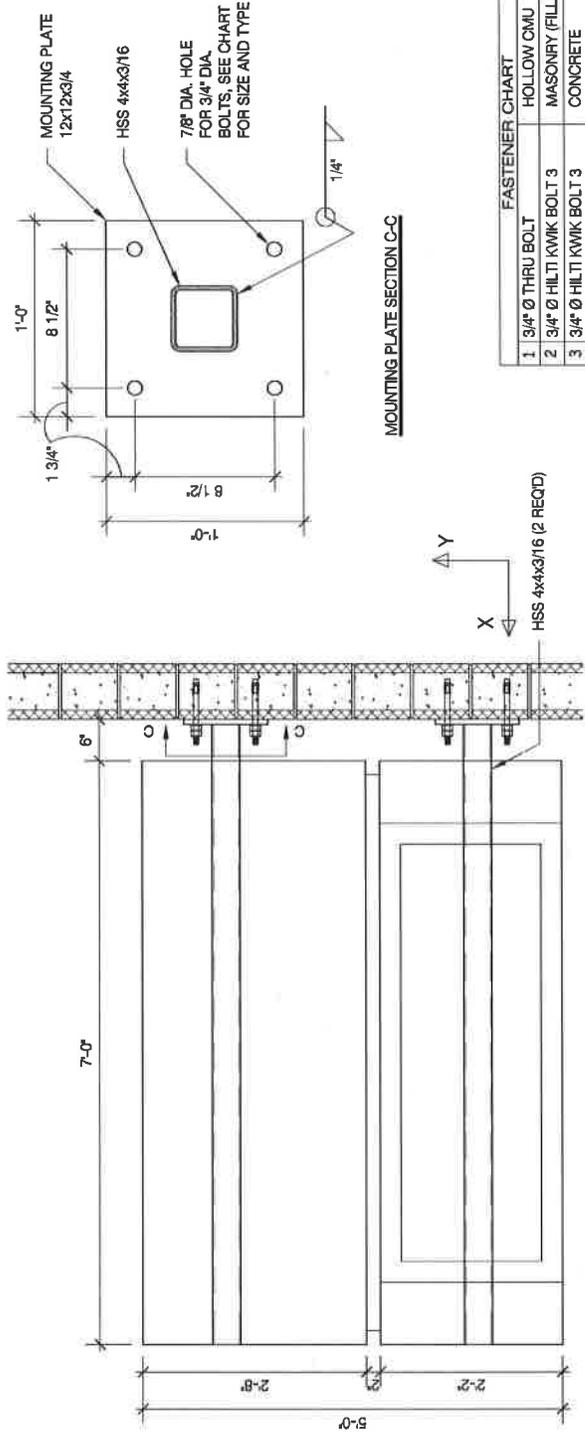
MBI
 michael brady inc.
 structural engineering

1800 VILLE OGDEN
 289 WEISGARDER RD
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-584-0699
 FAX 865-584-5213

MANUFACTURER - UNIVERSAL SIGN SYSTEMS
 • 2009 IBC
 • 90 MPH WIND SPEED, EXP. C

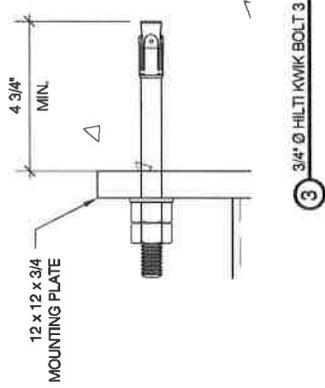
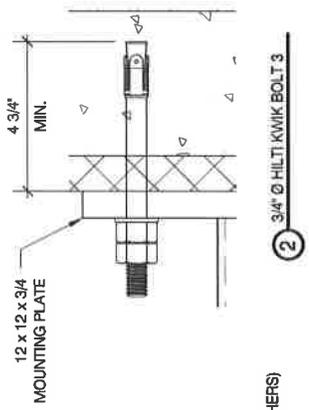
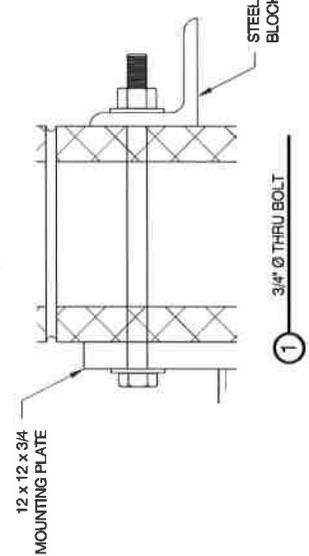
NOTES
 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.

MAX REACTIONS PER CONNECTION
 $V_y = 188 \#$
 $V_z = 464 \#$
 $M_z = 13,200 \# - in$
 $M_y = 22,260 \# - in$



MOUNTING PLATE SECTION C-C

FASTENER CHART	MIN EMBED	MIN EDGE DISTANCE
1 3/4" Ø THRU BOLT	HOLLOW CMU	-
2 3/4" Ø HILTI KWIK BOLT 3	MASONRY (FILLED)	4 3/4"
3 3/4" Ø HILTI KWIK BOLT 3	CONCRETE	4 3/4"



SIGN TYPE 3

MBI
 michael brady inc.
 1100 W. BENTLEY BLVD.
 KNOXVILLE, TN 37919
 PHONE 865-584-0999
 FAX 865-584-5213

PROJECT:
Rockford, IL

DRAWING TITLE:
Rockford Parking Garage

KNOWLEDGE OFFICE:
 289 WERSGARBER RD.
 KNOXVILLE, TENNESSEE
 37919

DRAWN BY:
GAO

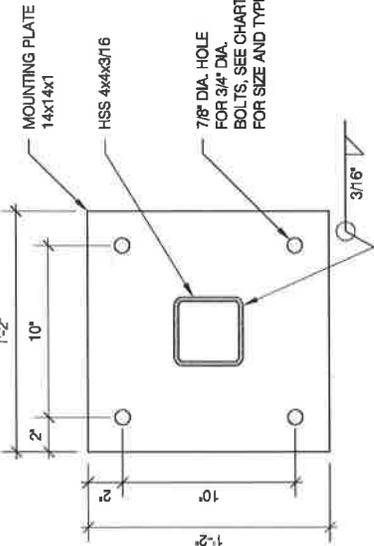
CHECKED BY:
RJD

COM. NO.
140242.01

DATE:
04/17/2014

DRAWING NO.
DWG. 3



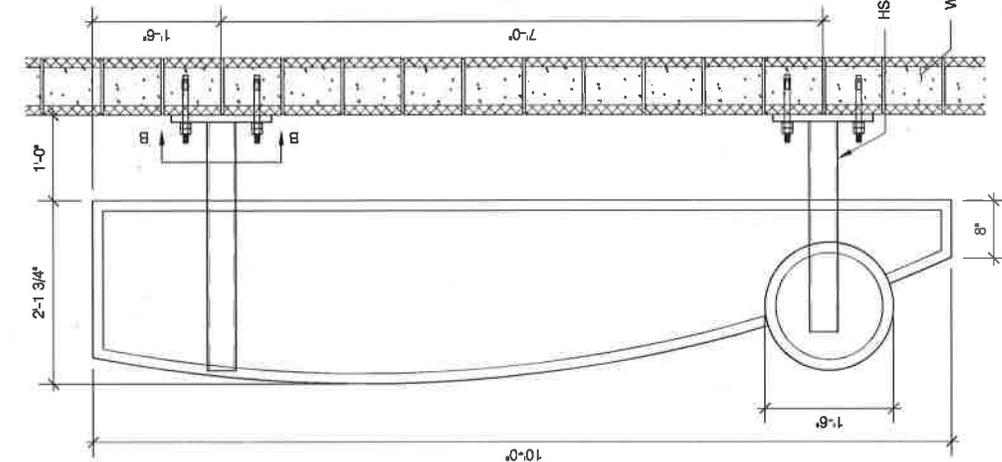


MOUNTING PLATE SECTION B-B

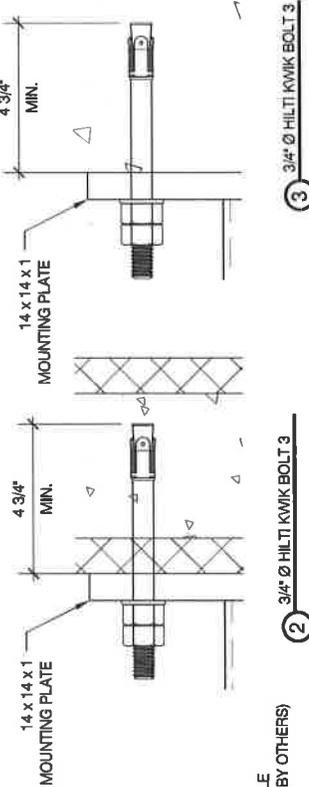
MAX REACTIONS PER CONNECTION
 $V_y = 154 \#$
 $V_z = 285 \#$
 $M_z = 5,109 \# - in$
 $M_y = 7,099 \# - in$

* MANUFACTURER - UNIVERSAL SIGN SYSTEMS
 * 2009 IBC
 * 90 MPH WIND SPEED, EXP. C

NOTES
 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.



SIGN TYPE 4



FASTENER CHART			
	MIN EMBED	MIN EDGE DISTANCE	
1 3/4" Ø THRU BOLT	HOLLOW CMU	--	--
2 3/4" Ø HILTI KWIK BOLT 3	MASONRY (FILLED)	4 3/4"	4"
3 3/4" Ø HILTI KWIK BOLT 3	CONCRETE	4 3/4"	--



DRAWING NO. **DWG. 4**

DATE: **04/17/2014**

COMA. NO. **140242.01**

CHECKED BY: **RJD**

DRAWN BY: **GAO**

PROJECT: **Rockford, IL**

DRAWING TITLE: **Rockford Parking Garage**

KNOXVILLE OFFICE
 269 WEISSGARDER RD.
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-504-0999
 FAX 865-504-5213

MBI
 michael breddy inc.
 a professional engineering firm

SIGN SPECIFICATIONS
 REFER TO SIGN COMPANYS DRAWING(S) FOR MORE DETAILS.
 ALL DESIGNS, DETAILING, FABRICATION AND CONSTRUCTION
 SHALL CONFORM TO:

2009 IBC
 ACI 318-08
 ASC

AMERICAN WELDING SOCIETY
 LOCAL BUILDING CODES & ORDINANCES

STEEL PIPE: ASTM A53 GRADE B
 STEEL TUBE: ASTM A500 GRADE B

CONNECTION BOLTS: ASTM A193 GRADE B7
 STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES, & PLATES:
 ASTM A36

WELDING ELECTRODES: E70XX
 WELDERS SHALL BE CERTIFIED FOR TYPE OF WELDING.

THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF
 DIMENSIONS FURNISHED BY OTHERS.

ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL
 PAINT TO PROHIBIT CORROSION.

THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE
 MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOB
 SITE SAFETY.

THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND
 SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT
 WRITTEN PERMISSION OF THE ENGINEER.

DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN,
 ARE BY OTHERS.

INSTALLED FASTENERS MUST MEET OR EXCEED THE VALUES
 SHOWN IN THE LIST ON THE CALCULATIONS SHEET.

ANCHOR SHALL BE STAINLESS STEEL
 WALL SIGNS ATTACHED TO EXTERIOR WALLS OF SOLID
 MASONRY OR CONCRETE, SHALL BE SAFELY AND
 SECURELY ATTACHED BY MEANS OF METAL ANCHORS,
 BOLTS OR EXPANSION BOLTS OF NOT LESS THAN 3/8"
 DIAMETER.

EXCEPT IN THE CASE OF WALL SIGNS ATTACHED TO
 BUILDINGS WITH WALLS OF WOOD.

A WALL SIGN SHALL NOT BE SUPPORTED BY ANCHORAGE
 SECURED TO AN UNBRACED PARAPET WALL LAG BOLT
 ANCHORAGE INTO WOOD 3" MIN. EMBEDMENT.

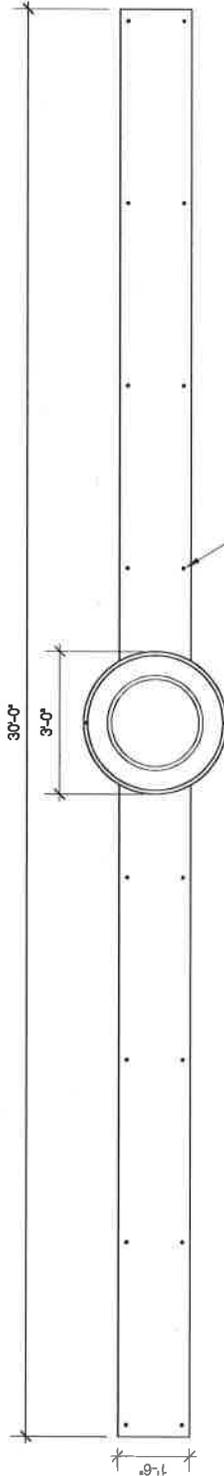
A THREADED ROD MAY BE USED FOR THRU BOLT CONNECTION.
 (USE WASHER AND DOUBLE NUT OR CRIMP THREADS
 BOTH ENDS TYP.)

SIGN MUST BE ATTACHED TO OR THROUGH SOLID BLOCKING.
 ATTACHMENT TO SHEATHING ONLY IS NOT ACCEPTABLE.

AT E.I.F.S. INSTALLATIONS INSTALL WITH PIPE SLEEVE. SEAL ALL
 PENETRATIONS.

THIS DESIGN FOR ANCHORAGE TO EXISTING STRUCTURE ONLY.
 BUILDING DESIGNER TO VERIFY ADEQUACY OF STRUCTURE
 TO RESIST THE ADDITIONAL LOADING. THIS ENGINEER NOT
 RESPONSIBLE FOR EXISTING STRUCTURE.

CHANNEL LETTERS AND WALL SIGNS ARE BY OTHERS
 ELECTRICAL RACEWAYS ARE BY OTHERS.



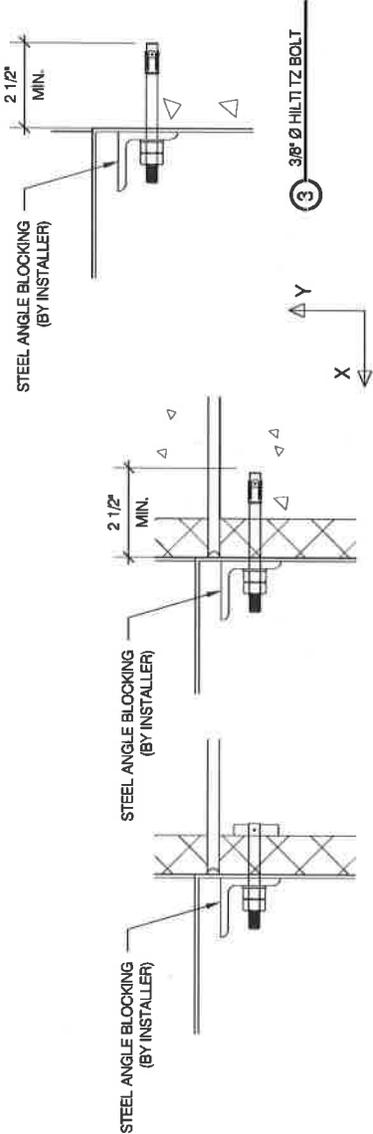
RECOMMENDED LOCATIONS FOR
 FASTENERS - SEE CHART FOR SIZE AND
 TYPE (18 REQ'D)

FASTENER CHART			
LIBERTY ANCHOR	MIN EMBED	HOLLOW CMU	MIN EDGE DISTANCE
1 3/8" Ø LIBERTY ANCHOR	—	—	—
2 3/8" Ø HILTI KWIK BOLT 3	2 1/2"	MASONRY (FILLED)	4"
3 3/8" Ø HILTI KWIK BOLT 3	2 1/2"	CONCRETE	—

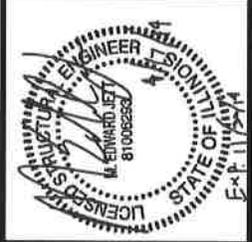
MAX REACTIONS PER CONNECTION
 $F_y = 25 \#$
 $F_x = 105 \#$

* MANUFACTURER - UNIVERSAL SIGN SYSTEMS
 * 2009 IBC
 * 90 MPH WIND SPEED, EXP. C

NOTES
 1.) SEE MANUFACTURERS DRAWINGS
 FOR ADDITIONAL DETAIL AND
 DIMENSIONS.



SIGN TYPE 5



DRAWING NO. DWG. **5**

DATE	04/17/2014
REV. #	DATE

COMA. NO. 140242.01

DRAWN BY: GAO
 CHECKED BY: RJD

PROJECT: Rockford, IL
 DRAWING TITLE: Rockford Parking Garage

1300XVILLE CIRCLE
 299 WEISGARDER RD
 KNOXVILLE, TENNESSEE
 37919
 PHONE 955-594-0599
 FAX 955-594-5213

MBI
 michael brady inc.
 4300 W. WILSON AVENUE
 structural engineering

SIGN SPECIFICATIONS
 REFER TO SIGN COMPANYS DRAWING(S) FOR MORE DETAILS.
 ALL DESIGNS, DETAILING, FABRICATION AND CONSTRUCTION
 SHALL CONFORM TO:

- 2009 IBC
- ACI 318-08
- AISC
- AMERICAN WELDING SOCIETY
- LOCAL BUILDING CODES & ORDINANCES
- STEEL PIPE: ASTM A53 GRADE B
- STEEL TUBE: ASTM A500 GRADE B
- CONNECTION BOLTS: ASTM A193 GRADE B7
- STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES, & PLATES:
 ASTM A36
- WELDING ELECTRODES: E70XX

WELDERS SHALL BE CERTIFIED FOR TYPE OF WELDING.
 THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF
 DIMENSIONS FURNISHED BY OTHERS.
 ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL
 PAINT TO PROHIBIT CORROSION.
 THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE
 MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOB
 SITE SAFETY.

THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND
 SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT
 WRITTEN PERMISSION OF THE ENGINEER.

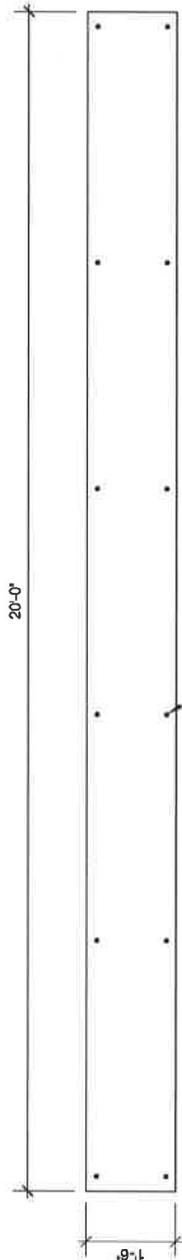
DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN,
 ARE BY OTHERS.
 INSTALLED FASTENERS MUST MEET OR EXCEED THE VALUES
 SHOWN IN THE LIST ON THE CALCULATIONS SHEET.

ANCHOR SHALL BE STAINLESS STEEL.
 WALL SIGNS ATTACHED TO EXTERIOR WALLS OF SOLID
 MASONRY OR CONCRETE, SHALL BE SAFELY AND
 SECURELY ATTACHED BY MEANS OF METAL ANCHORS,
 BOLTS OR EXPANSION BOLTS OF NOT LESS THAN 3/8"
 DIAMETER.

WOOD BLOCKS SHALL NOT BE USED FOR ANCHORAGE,
 EXCEPT IN THE CASE OF WALL SIGNS ATTACHED TO
 BUILDINGS WITH WALLS OF WOOD.
 A WALL SIGN SHALL NOT BE SUPPORTED BY ANCHORAGE
 SECURED TO AN UNBRACED PARAPET WALL. LAG BOLT
 ANCHORAGE INTO WOOD 3" MIN. EMBEDMENT.
 A THREADED ROD MAY BE USED FOR THRU BOLT CONNECTION.
 (USE WASHER AND DOUBLE NUT OR CRIMP THREADS
 BOTH ENDS TYP.)

SIGN MUST BE ATTACHED TO OR THROUGH SOLID BLOCKING.
 ATTACHMENT TO SHEATHING ONLY IS NOT ACCEPTABLE.
 AT E.I.F.S. INSTALLATIONS INSTALL WITH PIPE SLEEVE. SEAL ALL
 PENETRATIONS.

THIS DESIGN FOR ANCHORAGE TO EXISTING STRUCTURE ONLY.
 BUILDING DESIGNER TO VERIFY ADEQUACY OF STRUCTURE
 TO RESIST THE ADDITIONAL LOADING. THIS ENGINEER NOT
 RESPONSIBLE FOR EXISTING STRUCTURE.
 CHANNEL LETTERS AND WALL SIGNS ARE BY OTHERS
 ELECTRICAL RACEWAYS ARE BY OTHERS.



RECOMMENDED LOCATIONS FOR
 FASTENERS - SEE CHART FOR SIZE AND
 TYPE (12 REQ'D)

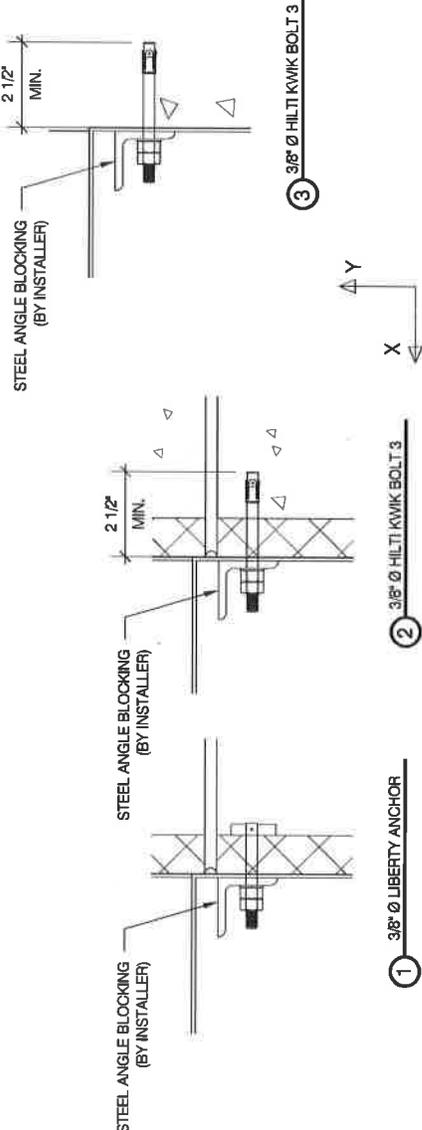
FASTENER CHART			
	MIN EMBED	HOLLOW CMU	MIN EDGE DISTANCE
1 3/8" Ø LIBERTY ANCHOR	--		
2 3/8" Ø HILTI KWIK BOLT 3	2 1/2"	MASONRY (FILLED)	4"
3 3/8" Ø HILTI KWIK BOLT 3	2 1/2"	CONCRETE	--

MAX REACTIONS PER CONNECTION

$F_y = 13 \#$
 $F_x = 55 \#$

- * MANUFACTURER - UNIVERSAL SIGN SYSTEMS
- * 2009 IBC
- * 90 MPH WIND SPEED, EXP. C

NOTES
 1.) SEE MANUFACTURERS DRAWINGS
 FOR ADDITIONAL DETAIL AND
 DIMENSIONS.



SIGN TYPE 6



DRAWING NO. DWG. 6

DATE	04/17/2014
REV. #	DATE

PROJECT	Rockford, IL
COM. NO.	140242.01
CHECKED BY	RJD
DRAWN BY	GAC

PROJECT	Rockford, IL
DRAWING TITLE	Rockford Parking Garage

MBI
 michael brady inc.
 structural engineering

KNOXVILLE OFFICE
 299 WEISSGARDER RD.
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-584-0999
 FAX 865-584-5213

Section 4

Prevailing Wages

RESOLUTION NO. 2013-96 R
RESOLUTION OF THE CITY OF ROCKFORD
ASCERTAINING THE PREVAILING WAGES FOR
LABORERS, MECHANICS AND WORKERS
EMPLOYED BY SAID CITY.

WHEREAS, the State of Illinois has enacted "An Act regulating wages of laborers, mechanics and other workers employed in any public works by the State, county, city or any public body or any political subdivision or by any one under contract for public works," approved June 26, 1941, as amended, (820 Illinois Compiled Statutes 130/9); and

WHEREAS, the aforesaid Act requires that the City of Rockford, a municipal corporation, Winnebago County, investigate and ascertain the prevailing rate of wages as defined in said Act for laborers, mechanics and other workers in the locality of said city employed in performing construction of public works, for said city.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Rockford, that:

Section 1. To the extent and as required by "An Act regulating wages of laborers, mechanics and other workers employed in any public works by the State, County, City or any public body or any political subdivision or by any one under contract for public works", approved June 26, 1941, as amended, the general prevailing rate of wages in this locality for laborers, mechanics and other workers engaged in construction of public works coming under the jurisdiction of this City is hereby ascertained to be the same as the prevailing rate of wages for construction work in Winnebago County area as determined by the Department of Labor of the State of Illinois as of June 1, 2013, a copy of that determination being attached hereto and incorporated herein by reference. As required by said Act, any and all revisions of the prevailing rate of wages by the Department of Labor of the State of Illinois shall supersede the Department's June determination and apply to any and all public works construction undertaken by the City. The definition of any terms appearing in this Resolution which are also used in aforesaid Act shall be the same as in said Act.

Section 2. Nothing herein contained shall be construed to apply said general prevailing rate of wages as herein ascertained to any work or employment except public works construction of this City to the extent required by the aforesaid Act.

Section 3. The Legal Director of the City of Rockford shall publicly post or keep available for inspection by an interested party in the main office of the City of Rockford Department of Law this determination of such prevailing rate of wage. A copy of this determination or of the current revised determination of prevailing wages then in effect shall be attached to all contract specifications.

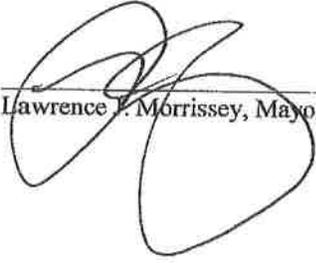
Section 4. The Legal Director of the City of Rockford shall mail a copy of this determination to any employer, and to any association of employers and to any person or association of employees who have filed their names and addresses, requesting copies of any determination stating the particular rates and the particular class of workmen whose wages will be affected by such rates.

Section 5. The Legal Director of the City of Rockford shall promptly file a certified copy of this Resolution with both the Secretary of State Index Division and the Department of Labor of the State of Illinois.

Section 6. The Legal Director of the City of Rockford shall cause to be published in a newspaper of general circulation within the area a Notice regarding this Resolution and such publication shall constitute notice that the determination is effective and that this is the determination of the public body.

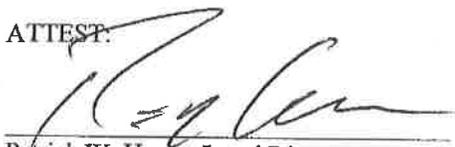
ADOPTED:

APPROVED:



Lawrence F. Morrissey, Mayor

ATTEST:



Patrick W. Hayes, Legal Director

Winnebago County Prevailing Wage for May 2014

(See explanation of column headings at bottom of wages)

Trade Name	RG	TYP	C	Base	FRMAN	M-F>8	OSA	OSH	H/W	Pensn	Vac	Trng
ASBESTOS ABT-GEN		BLD		30.570	31.820	1.5	1.5	2.0	8.240	12.95	0.000	0.800
ASBESTOS ABT-MEC		BLD		18.950	0.000	1.5	1.5	2.0	2.700	3.350	0.000	0.000
BOILERMAKER		BLD		44.240	48.220	2.0	2.0	2.0	6.970	17.54	0.000	0.350
BRICK MASON		BLD		36.420	39.170	1.5	1.5	2.0	8.650	12.05	0.000	0.630
CARPENTER		BLD		36.410	40.420	1.5	1.5	2.0	8.300	11.55	0.000	0.600
CARPENTER		HWY		41.080	42.830	1.5	1.5	2.0	8.300	10.00	0.000	0.490
CEMENT MASON		ALL		35.240	37.990	1.5	1.5	2.0	8.750	12.00	0.000	0.500
CERAMIC TILE FNSHER		BLD		32.450	0.000	1.5	1.5	2.0	8.300	4.930	0.000	0.550
COMMUNICATION TECH		BLD		36.440	40.080	1.5	1.5	2.0	10.39	12.09	0.000	0.760
ELECTRIC PWR EQMT OP		ALL		36.610	49.750	1.5	1.5	2.0	5.000	11.35	0.000	0.270
ELECTRIC PWR GRNDMAN		ALL		28.310	49.750	1.5	1.5	2.0	5.000	8.780	0.000	0.210
ELECTRIC PWR LINEMAN		ALL		43.830	49.750	1.5	1.5	2.0	5.000	13.58	0.000	0.330
ELECTRIC PWR TRK DRV		ALL		29.310	49.750	1.5	1.5	2.0	5.000	9.090	0.000	0.220
ELECTRICIAN		BLD		41.500	45.650	1.5	1.5	2.0	10.39	17.43	0.000	0.830
ELEVATOR CONSTRUCTOR		BLD		46.050	51.810	2.0	2.0	2.0	12.73	13.46	3.680	0.600
GLAZIER		BLD		35.730	37.730	1.5	1.5	2.0	9.950	8.200	0.000	1.250
HT/FROST INSULATOR		BLD		33.930	36.470	1.5	1.5	2.0	7.450	14.77	0.000	0.000
IRON WORKER		ALL		35.090	36.840	2.0	2.0	2.0	8.340	22.19	0.000	0.500
LABORER		BLD		30.570	31.820	1.5	1.5	2.0	8.240	12.95	0.000	0.800
LABORER		HWY		33.200	33.950	1.5	1.5	2.0	8.240	13.95	0.000	0.800
LABORER, SKILLED		HWY		35.650	36.400	1.5	1.5	2.0	8.240	13.95	0.000	0.800
LATHER		BLD		36.410	40.420	1.5	1.5	2.0	8.300	11.55	0.000	0.600
MACHINIST		BLD		43.920	46.420	1.5	1.5	2.0	6.760	8.950	1.850	0.000
MARBLE FINISHERS		BLD		32.450	0.000	1.5	1.5	2.0	8.300	4.930	0.000	0.550
MARBLE MASON		BLD		35.130	35.380	1.5	1.5	2.0	8.300	7.240	0.000	0.580
MATERIAL TESTER I		ALL		21.550	0.000	1.5	1.5	2.0	7.460	4.840	0.000	0.170
MATERIALS TESTER II		ALL		26.550	0.000	1.5	1.5	2.0	7.460	4.840	0.000	0.170
MILLWRIGHT		BLD		35.500	39.050	1.5	1.5	2.0	8.300	14.37	0.000	0.500
OPERATING ENGINEER		BLD	1	41.800	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	2	41.100	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	3	38.650	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	4	36.650	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	5	45.550	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	6	44.800	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		BLD	7	41.800	45.800	2.0	2.0	2.0	16.65	10.30	2.350	1.000
OPERATING ENGINEER		HWY	1	41.650	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	2	41.100	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	3	39.800	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	4	38.350	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	5	36.900	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	6	44.650	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
OPERATING ENGINEER		HWY	7	42.650	45.650	1.5	1.5	2.0	16.65	10.30	2.350	1.300
PAINTER		ALL		35.800	37.800	1.5	1.5	1.5	10.00	8.200	0.000	1.350
PILEDRIIVER		BLD		37.410	41.530	1.5	1.5	2.0	8.300	11.55	0.000	0.600
PILEDRIIVER		HWY		41.080	42.830	1.5	1.5	2.0	8.300	10.00	0.000	0.490
PIPEFITTER		BLD		42.100	45.050	1.5	1.5	2.0	7.980	11.04	0.000	1.000
PLASTERER		BLD		33.780	37.160	1.5	1.5	2.0	8.750	11.60	0.000	0.500
PLUMBER		BLD		42.100	45.050	1.5	1.5	2.0	7.980	11.04	0.000	1.000
ROOFER		BLD		39.200	42.200	1.5	1.5	2.0	8.280	9.690	0.000	0.430
SHEETMETAL WORKER		BLD		37.400	39.330	1.5	1.5	2.0	5.700	16.50	0.520	0.290
SPRINKLER FITTER		BLD		37.120	39.870	1.5	1.5	2.0	8.420	8.500	0.000	0.350
STONE MASON		BLD		36.420	39.170	1.5	1.5	2.0	8.650	12.05	0.000	0.630
SURVEY WORKER		ALL		35.650	36.400	1.5	1.5	2.0	8.240	13.95	0.000	0.800
TERRAZZO FINISHER		BLD		32.450	0.000	1.5	1.5	2.0	8.300	4.930	0.000	0.550

TERRAZZO MASON	BLD	35.130	35.380	1.5	1.5	2.0	8.300	7.240	0.000	0.580
TILE LAYER	BLD	36.410	40.420	1.5	1.5	2.0	8.300	11.55	0.000	0.600
TILE MASON	BLD	35.130	35.380	1.5	1.5	2.0	8.300	7.240	0.000	0.580
TRUCK DRIVER	ALL 1	32.960	33.420	1.5	1.5	2.0	6.900	8.220	0.000	0.000
TRUCK DRIVER	ALL 2	33.110	33.420	1.5	1.5	2.0	6.900	8.220	0.000	0.000
TRUCK DRIVER	ALL 3	33.310	33.420	1.5	1.5	2.0	6.900	8.220	0.000	0.000
TRUCK DRIVER	ALL 4	33.420	33.420	1.5	1.5	2.0	6.900	8.220	0.000	0.000
TUCKPOINTER	BLD	36.420	39.170	1.5	1.5	2.0	8.650	12.05	0.000	0.630

Legend: RG (Region)

TYP (Trade Type - All, Highway, Building, Floating, Oil & Chip, Rivers)

C (Class)

Base (Base Wage Rate)

FRMAN (Foreman Rate)

M-F>8 (OT required for any hour greater than 8 worked each day, Mon through Fri.)

OSA (Overtime (OT) is required for every hour worked on Saturday)

OSH (Overtime is required for every hour worked on Sunday and Holidays)

H/W (Health & Welfare Insurance)

Pensn (Pension)

Vac (Vacation)

Trng (Training)

Explanations

WINNEBAGO COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER, MARBLE FINISHER, TERRAZZO FINISHER

Assisting, helping or supporting the tile, marble and terrazzo mechanic by performing their historic and traditional work assignments required to complete the proper installation of the work covered by said crafts. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

COMMUNICATIONS TECHNICIAN

Installing, manufacturing, assembling and maintaining sound and intercom, protection alarm (security), fire alarm, master antenna television, closed circuit television, low voltage control for

computers and/or door monitoring, school communications systems, telephones and servicing of nurse and emergency calls, and the installation and maintenance of transmit and receive antennas, transmitters, receivers, and associated apparatus which operates in conjunction with above systems. All work associated with these system installations will be included EXCEPT the installation of protective metallic conduit in new construction projects (excluding less than ten-foot, runs strictly for protection of cable) and 120 volt AC (or higher) power wiring and associated hardware.

LABORER, SKILLED - HIGHWAY

Individuals engaged in the following types of work, irrespective of the site of the work: asbestos abatement worker, handling of any materials with any foreign matter harmful to skin or clothing, track laborer, cement handlers, chloride handlers, the unloading and loading with steel workers and re-bars, concrete workers wet, tunnel helpers in free air, batch dumpers, mason tenders, kettle and tar men, tank cleaners, plastic installers, scaffold workers, motorized buggies or motorized unit used for wet concrete or handling of building materials, laborers with de-watering systems, sewer workers plus depth, rod and chainmen with technical engineers, rod and chainmen with land surveyors, rod and chainmen with surveyors, vibrator operators, cement silica, clay, fly ash, lime and plasters, handlers (bulk or bag), cofferdam workers plus depth, on concrete paving, placing, cutting and tying of reinforcing, deck hand, dredge hand, and shore laborers, bankmen on floating plant, grade checker, power tools, front end man on chip spreaders, cession workers plus depth, gunnite nozzle men, lead man on sewer work, welders, cutters, burners and torchmen, chainsaw operators, jackhammer and drill operators, layout man and/or drainage tile layer, steel form setter - street and highway, air tamping hammermen, signal man on crane, concrete saw operator, screedman on asphalt pavers, laborers tending masons with hot material or where foreign materials are used, mortar mixer operators, multiple concrete duct - leadsman, lumen, asphalt raker, curb asphalt machine operator, ready mix scalemen (permanent, portable or temporary plant), laborers handling masterplate or similar materials, laser beam operator, concrete burning machine operator, coring machine operator, plaster tender, underpinning and shoring of buildings, pump men, manhole and catch basin, dirt and stone tamper, hose men on concrete pumps, hazardous waste worker, lead base paint abatement worker, lining of pipe, refusing machine, assisting on direct boring machine, the work of laying watermain, fire hydrants, all mechanical joints to watermain work, sewer worker, and tapping water service and forced lift station mechanical worker.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEERS - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle

Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver (over 27E cu. ft.); Concrete Paver (27 cu. ft. and under); Concrete Placer; Concrete Pump (Truck Mounted); Concrete Conveyor (Truck Mounted); Concrete Tower; Cranes, All; GCI and similar types (required two operators only); Cranes, Hammerhead; Creter Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, one, two and three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment - excluding hose work and any sewer work); Locomotives, All; Lubrication Technician; Manipulators; Motor Patrol; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Raised and Blind Hole Drill; Rock Drill (self-propelled); Rock Drill - Truck Mounted; Roto Mill Grinder; Scoops - Tractor Drawn; Slipform Paver; Scrapers Prime Movers; Straddle Buggies; Tie Back Machine; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Bobcat (over 3/4 cu. yd.); Boilers; Brick Forklift; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Asphalt Spreader; Combination - Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators - (Rheostat Manual Controlled); Hydraulic Power Units (Pile Driving, Extracting, or Drilling - with a seat); Lowboys; Pumps, Over 3" (1 to 3 not to exceed total of 300 ft.); Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches; Bobcat (up to and including 3/4 cu. yd.).

Class 4. Elevator push button with automatic doors; Hoists, Inside; Oilers; Brick Forklift.

Class 5. Assistant Craft Foreman

Class 6. Mechanics; Welders.

Class 7. Gradall

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Silo Tender; Asphalt Spreader; Autograder; ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Backhoe w/shear attachments; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower of all types; Creter Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Directional Boring Machine over 12"; Dredges; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Mounted; Hoists, One, Two and Three Drum; Hydraulic Backhoes; Hydro Vac, Self Propelled, Truck Mounted (excluding hose work and any sewer work);

Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; GCI Crane; Hydraulic Telescoping Form (Tunnel); Tie Back Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader with attached pusher; Tractor with Boom; Tractaire with Attachments; Traffic Barrier Conveyor Machine; Raised or Blind Hole Drills; Trenching Machine (over 12"); Truck Mounted Concrete Pump with Boom; Truck Mounted Concrete Conveyor; Work Boat (no license required - 90 h.p. or above); Underground Boring and/or Mining Machines; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw (large self-propelled - excluding walk-behinds and hand-held); Conveyor Muck Cars (Haglund or Similar Type); Drills, all; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro Blaster; All Locomotives, Dinky; Off-Road Hauling Units; Non-Self Loading Dump; Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Scoops - Tractor Drawn; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper; Scraper - Prime Mover in Tandem (Regardless of Size); Tank Car Heater; Tractors, Push, Pulling Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Fireman on Boilers; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper - Form - Motor Driven.

Class 4. Air Compressor - Small and Large; Asphalt Spreader, Backend Man; Bobcat (Skid Steer) all; Brick Forklift; Combination - Small Equipment Operator; Directional Boring Machine up to 12"; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Hydro-Blaster; Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Tractaire; Trencher 12" and under; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. Oilers and Directional Boring Machine Locator.

Class 6. Field Mechanics and Field Welders

Class 7. Gradall and machines of like nature.

SURVEY WORKER - Operated survey equipment including data collectors, G.P.S. and robotic instruments, as well as conventional levels and transits.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; TTeamsters Unskilled dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yeards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.