

Agenda April 15, 2013

OFFICIALS

William R. Griggs
CITY CLERK

Andrew A. Swiecki
CITY TREASURER

Colleen A. Keelin
CITY ASSESSOR



JOSEPH R. PETERSON
MAYOR

COUNCIL

Todd M. Browning
James R. DeSana
Sheri M. Sutherby-Fricke
Daniel E. Galeski
Leonard T. Sabuda
Lawrence S. Stec

Part

Back up
for item #13⁺#14

#13 NSP-3
1749-2nd

#14 Antenna Site

**NSP3 SUBRECIPIENT AGREEMENT
BETWEEN THE
CHARTER COUNTY OF WAYNE
AND**

The City of Wyandotte

Term _____, 2012 through _____, 20__

Catalog of Federal Domestic Assistance (CFDA)

14.218 Community Development Block Grants/Entitlement Grants

Title III of the Housing and Recovery Act of 2008, being 42 USC 5301 *et seq.*

Section 1497 Wall Street Reform and Consumer Protection Act of 2010 (Pub. L. 111-203)

THIS SUBRECIPIENT AGREEMENT (the "Agreement") is effective as of this _____ day of _____ 2012, by and between **THE CHARTER OF COUNTY OF WAYNE**, acting through the Wayne County Community Development Division of the Economic Development Growth Engine ("EDGE"), whose address is the Guardian Building, 500 Griswold, Detroit, Michigan 48226 (the "Recipient" or "County") and The City of Wyandotte, whose address is 3131 Biddle Avenue, Wyandotte MI (the "Subrecipient").

RECITALS

- A.** Title III of Division B of the Housing and Economic Recovery Act of 2008 ("HERA") appropriated funding for emergency assistance for the redevelopment of abandoned and foreclosed homes.
- B.** The grant program established under HERA is commonly referred to as the Neighborhood Stabilization Program ("NSP") and is administered by the United States Department of Housing and Urban Development ("HUD"). Section 1497 of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act") has provided an additional funding grant under a new program, the Neighborhood Stabilization Program 3 ("NSP3"), which is the funding source for this Agreement.
- C.** The grant funds awarded by HUD are considered a special allocation of Community Development Block Grant funds ("CDBG").
- D.** County is an entitlement community that receives CDBG funds awarded under the Housing and Community Development Act of 1974.
- E.** County submitted an NSP3 Substantial Amendment Plan ("Plan") to HUD outlining the County's NSP3 eligible activities for the NSP Program. The Plan was approved by HUD on June 9th, 2012.
- F.** Subrecipient is a non-profit corporation, organized and existing under the laws of the State of Michigan.
- G.** County issued a Request for Proposals ("RFP") for NSP3.
- H.** In accordance with the RFP, Subrecipient has been selected to provide the services described in this Agreement, supplemented by all terms and conditions of the RFP incorporated herein by reference, except to the extent of any conflicts herewith.
- I.** County has allocated to Subrecipient 179,823.25 dollars of NSP3 funds, which should thereby enable Subrecipient to provide NSP3 eligible activities in accordance with the terms and conditions of this Agreement.

K. Subrecipient has been informed of the critical goals and deadlines which must be met for utilizing the NSP3 funds. Subrecipient is aware that it must one hundred percent (100%) of its NSP3 allocation by no later than September 30th, 2013, unless otherwise approved by County.

L. Subrecipient represents and warrants to County that it has the demonstrated experience, qualifications and capacity to administer the NSP3 activities described herein on behalf of County, in accordance with the terms and conditions set forth in this Agreement.

M. Subrecipient has represented to County that it has sufficient resources to make use of the funds allocated to it under this Agreement, within the time constraints of NSP3.

NOW THEREFORE, in consideration of the mutual covenants and agreements contained herein, and for other good and valuable consideration the sufficiency and receipt whereof being hereby acknowledged by each party to the other, County and Subrecipient agree as follows:

SECTION 1: SCOPE OF SERVICES AND USE OF FUNDS

1.1 Recitals.

The recitals set forth above are true and correct and are incorporated herein and made a part of this Agreement.

1.2 Subrecipient's NSP3 Funds Allocation.

(a) Under the terms and conditions of this Agreement, County has allocated One Hundred and Seventy Nine Thousand, Eight Hundred and Twenty Three Dollars and Twenty Five Cents (179,823.25) of NSP3 funds for the rehabilitation and sale of [1]One single detached home.

(b) The funds will generally be administered as CDBG Program funds, unless NSP regulations dictate otherwise, to be utilized by Subrecipient in carrying out and completing the Project.

(c) Any Subrecipient Funds remaining unexpended on September 30th, 2013, unless otherwise approved by County in writing, may be de-obligated from Subrecipient under this Agreement and made available for other County projects as determined by County in its sole and absolute discretion.

1.3 Statement of Work

Subrecipient, is responsible for performing all tasks and services described herein in a manner satisfactory to County:

(a) Subrecipient must complete the rehabilitation and sale of 1 home in accordance with **Appendix A**, the RFP, and this Agreement as a whole.

(b) During the term of this Agreement, Subrecipient agrees to work diligently towards completion of the Project. If it is determined that Subrecipient will be unable to complete the rehabilitation and sale of the home(s) by no later than the scheduled performance dates, a request for an extension must be submitted to County for consideration prior to expiration of any deadlines. This request must identify the reasons

for the extension and must be accompanied by a proposed project timeline that can be reasonably accomplished.

(c) Subrecipient's failure to work diligently toward completing the Project and any other incidents of non-performance may result in conditions being placed on the Allocated Funds, suspension of Allocated Funds, or County may cease disbursing any other uncommitted funds covered by this Agreement.

1.4 Term.

(a) This Agreement shall be in effect for the period commencing _____, and terminating on the day after Project Completion.

(b) Notwithstanding anything herein to the contrary, Subrecipient's obligations to County do not end until all close-out requirements are completed, including, but not limited to, such things as making final payments, disposing of all remaining program assets, and retention of records.

(c) Also, notwithstanding the foregoing, the term of this Agreement and the provisions herein will be extended to cover any additional time period during which Subrecipient remains in control of Allocated Funds or other assets acquired in whole or in part with Allocated Funds, including Program Income.

1.5 Staffing.

In order to accomplish the work and complete the Project in a timely manner, Subrecipient will assign Mark Kowalewski as project manager to this Project.

1.6 Rehabilitation Activities.

Subrecipient is responsible for all rehabilitation and construction required on the home, including but not limited to contracting with properly licensed contractors to complete the rehabilitation.

1.7 Preapproval of Rehabilitation Activities.

Before commencing any rehabilitation or construction work on a home, Subrecipient must have pre-approval in writing from County. Work must be done in accordance with the required housing standards, as well as all subcontracting requirements. For the work completed up to the date of Home Completion, Subrecipient will be reimbursed for allowable costs and expenses related to the home, as described within the limitations set forth in Section 2 hereof.

1.8 Subcontracting/Third Party Contracts.

(a) Subrecipient must procure all material, property and services in accordance with the requirements of OMB Circular A-102. Third parties may be procured for a variety of services within these limitations.

(b) Subrecipient must insure that all subcontracts let in the performance of this Agreement are awarded on a fair and open competition basis in accordance with applicable procurement requirements.

- (c) Subrecipient may not enter into any subcontract with any agency or individual in the performance of this Agreement without the written consent and approval of the Wayne County Community Development Director prior to execution of the agreement or contract.
- (d) Subrecipient agrees to furnish to County a copy of each third-party contract it enters into for performance of work to be undertaken within the scope of this Agreement along with documentation concerning the selection process.
- (e) Subrecipient must incorporate in any and all such contracts with third parties provisions, which will obligate each of its subcontractors or partners to comply with all applicable federal, state, and local laws, rules and regulations to be adhered to in accordance with all parts of this Agreement and comply with all affirmative action laws, nondiscrimination requirements, anti-kickback requirements, federal labor standard provisions, and lobbying prohibitions issued by various federal agencies applicable to this program, even to the extent of those applicable laws and requirements not specifically mentioned in this Agreement.

1.9 Davis-Bacon Compliance

- (a) If this project involves the rehabilitation of properties with 8 or more units on the Property, Subrecipient shall comply with the provisions of the Davis-Bacon Act and regulations (29 CFR, Part 5), as amended. If the building or commonly owned development (e.g., condo or townhouse) has 8 or more units, Davis Bacon is applicable, even if NSP funds are only used for one unit.
- (b) Subrecipient agrees to comply with the requirements of the Secretary of Labor in accordance with the Davis-Bacon Act, as amended, the provisions of Contract Work Hours and Safety Standards Act (40 U.S.C. 327 *et seq.*) and all other applicable Federal, state and local laws and regulations pertaining to labor standards insofar as those acts apply to the performance of this Agreement.
- (c) Subrecipient shall maintain documentation that demonstrates compliance with hour and wage requirements of this part. Such documentation shall be made available to County for review upon request. Subrecipient shall require and monitor compliance by all contractors, subcontractors and other third parties. Subrecipient will monitor all subcontracted services on a regular basis to assure contract compliance. Results of monitoring efforts shall be summarized in the monthly report to be submitted to County. County is not obligated or liable hereunder to any party other than Subrecipient

1.10 Anti-Kickback Prohibition

Subrecipient must comply with the Copeland Anti-Kick Back Act (18 U.S.C. 874 *et seq.*) and its implementing regulations of the U.S. Department of Labor at 29 CFR Part 5.

1.11 Maintenance and Security.

As to each home it performs Rehabilitation services on, Subrecipient is responsible until Home Completion for all maintenance and security. Subrecipient will be reimbursed for allowable maintenance, security costs and other expenses as described and limited in Section 2 hereof.

1.12 Other Encumbrance Prohibition.

Subrecipient may not encumber or allow any liens to be placed against any property it acquires in whole or in part with funds from the County, except upon prior written consent of County.

1.13 Disposition of Completed Units

(a) Disposition of completed units must be through sale or rental to income qualified families.

(b) Subrecipient must enter into a Memorandum of Understanding (“MOU”) with the Supportive Service Provider (“Provider”) identified in Appendix A within 90 days of the execution of the Agreement. The executed MOU will be incorporated as Appendix F.

(c) The MOU must indicate that the Provider will assist with the identification of potential homebuyers or renters, perform income qualification and provide eight-hour counseling for homebuyers if necessary.

(d) Subrecipient may act as the rental property manager or transfer properties, upon certificate of occupancy and final payment, to a non-profit rental property manager approved by Wayne County.

(e) Units offered for rent will be subject to HUD HOME rent limits and other restrictions.

1.14 Promissory Note and Mortgage

(a) Upon execution of this Agreement, the Subrecipient agrees to and must execute the Promissory Note in Appendix F (“Note”) and grants County mortgages in the form of Appendix G (“Mortgage”) on the Properties to secure the Note and Subrecipient’s performance under this Agreement. If Subrecipient has not fully performed under this Agreement at the time of termination of this Agreement then County will have the right to foreclose upon the Mortgage. Upon complete satisfaction of the requirements of this Agreement and HUD requirements for the Properties the Mortgages and Note will be discharged.

SECTION 2: SUBRECIPIENT COMPENSATION AND REIMBURSEMENTS

2.1 Budget.

(a) Subrecipient may only use the Allocated Funds for eligible expenses permitted under NSP3 and CDBG regulations as set forth in the NSP3 regulations and 24 CFR Part 570 and in accordance with the Budget attached hereto as **Appendix B** and made a part

hereof by this reference. Expenditures must be directly attributable to the Rehabilitation of single family homes in furtherance of the Project.

(b) Any changes in budget line items, including additions, must be requested in writing and approved by County before related expenditures can be undertaken.

(c) Subrecipient is responsible for any cost overruns above Allocated Funds, unless County approves them in writing prior to Subrecipient incurring such costs.

(d) Subrecipient may not use any NSP3 funds for prohibited activities as set forth in the NSP3 regulations or 24 CFR §570.207. Subrecipient acknowledges and agrees that any funds not used in accordance with permitted NSP3 and CDBG regulations and the Budget will not be reimbursed by County.

(e) Any funds reimbursed for purposes not approved in accordance with this Agreement, NSP3 or other controlling statutes or rules, shall be returned to County by Subrecipient.

(f) Any funds for Project disallowed by HUD at any point must be returned to County by Subrecipient.

(g) Notwithstanding anything herein to the contrary, Subrecipient may not request reimbursement from County under this Agreement for any costs or expenses, which have been paid from another source of revenue and Subrecipient further agrees to utilize funds available under this Agreement to supplement rather than supplant funds otherwise available.

2.2 Cost Reimbursements.

(a) Funds will be disbursed to Subrecipient as a reimbursement for costs actually incurred, to the extent allowed by HUD and as follows:

- Acquisition costs (other than sale price) - at the time of closing for the acquisition of the homes. The sales price of the home will be paid directly to the seller at closing by County.
- Rehabilitation - during the Rehabilitation process, Monthly payments for work completed prior thereto. Reimbursement of costs shall be allowed after submission of complete invoices, lien waivers, satisfactory inspection by the unit of local government and otherwise upon compliance with this Agreement.
- Costs of boarding and maintaining security for the home, lawn mowing, insurance costs and otherwise maintaining the property will be eligible and reimbursable NSP3 costs paid monthly also in the manner provided herein.

(b) No more frequently than once per month, County will accept invoices for reimbursement of costs upon completion of tasks specified in the scope of services. Each invoice shall fully detail costs and specify the status of the particular activity for each home, as of the date of the invoice, as it relates to the accepted schedule for the activity. Payment will be made within thirty (30) days of receipt by County of an acceptable invoice with supporting documentation.

2.3 Payment Procedures/Reimbursement of Funds.

Disbursement of funds under this Agreement may be requested only for necessary, reasonable, and allowable costs described in the Budget, attached hereto as **Appendix B** and for which Subrecipient has incurred such expenses. County will disburse funds only after receipt and approval by appropriate County personnel of a "Request for Payment" which shall be in accordance with the Budget specifying the services performed and expenses incurred. Payment requests shall be submitted in form and content satisfactory to County. All requests for payment must be accompanied by documentation of eligible expenses (i.e. invoices, receipts, bills from vendors, copies of checks, time sheets, etc...) documentation of matching funds expenditure or donations (i.e. volunteer time logs, time sheets, mock invoices for donated items, etc...) and other supporting documentation. Requests for Payment shall include adequate documentation of charges, expenditures and all other information described in **Appendix "____"** attached. All requests to County for payment must be signed by Subrecipient.

2.4 Program Income.

Subrecipient shall report all Program Income, as defined at 24 CFR §570.500(a), in its monthly report to County if applicable. Documentation of the receipt of Program Income, such as supporting schedules identifying the project and the source of income, must be submitted to County within five (5) days of its receipt. Substantially all Program Income must be disbursed for eligible NSP3 activities before additional cash withdrawals are made from the U.S. Treasury. Upon expiration or earlier termination of this Agreement, Subrecipient shall transfer all NSP3 Program Income to County within five (5) days of the expiration or termination. If Subrecipient receives any Program Income after this Agreement is terminated, Subrecipient shall remit such Program Income balances to County as required in 24 CFR §570.503 (b)(3), and (b)(4) within five (5) days of receipt.

2.5 Reversion of Assets.

(a) The use and disposition of property and equipment under this Agreement shall be in compliance with the requirements of 24 CFR Part 84 and 24 CFR 570.502, 570.503 and 570.504, as applicable, which includes but is not limited to the following:

- 1). Subrecipient shall transfer to County any NSP3 funds or Program Income on hand at the time of Project Completion and any accounts receivable attributable to the use of NSP3 funds as required by 24 CFR §570.503 (b)(7);
- 2). If this Agreement involves any real property under Subrecipient's control acquired or improved, in whole or in part, with NSP3 funds in excess of \$25,000:
 - A. Such property shall continue to be used for a period of not less than five (5) years following Project Completion to meet one of the CDBG national objectives cited in 24 CFR §570.208; or
 - B. If the Subrecipient fails to use the property in accordance with paragraph (a)(2)A above, Subrecipient shall pay County an amount equal to the current fair market value of the property less any portion of the value attributable to

expenditures of non-NSP3 funds for the acquisition or improvement to the property. The payment shall be considered Program Income to County.

2.6 Withholding Payments.

County's obligation to reimburse Subrecipient is conditioned on Subrecipient's full compliance with this Agreement. A breach of this Agreement is grounds for non-payment by County.

2.7 National Objectives and Use.

Subrecipient certifies that the rehabilitation and sale activities carried out with funds provided under this Agreement will meet a CDBG program National Objective under 24 CFR 570.208.

SECTION 3: ADMINISTRATIVE REQUIREMENTS

3.1 Monthly Status Reports.

Subrecipient shall provide County monthly status reports concerning the progress of the Project. Each report shall comply with the Reporting Schedule attached hereto and made a part hereof as **Appendix "A"** and shall include the following information:

- (1) address of each home
- (2) status of the rehabilitation and sale on each home
- (3) narrative statement of related property management activities and
- (4) once the home is sold, the client data demonstrating client eligibility including, but not limited to, client name, address, ethnicity, race, gender, age, head of household, income level, or other basis for determining eligibility,
- (5) information required for the Annual Demographic Report attached hereto and made a part hereof as **Appendix "___"**;
- (6) Program Income, if any, and
- (7) such other information as may be considered appropriate by County. The monthly status report shall be due on the 10th of each month for activities conducted during the preceding month.

3.2 Applicable Laws and Regulations.

- (a) Subrecipient shall comply with the requirements of the following:
 - (1) HERA,
 - (2) NSP3 regulations,
 - (3) The Housing and Community Development Act of 1974, as amended,
 - (4) All CDBG program requirements,

- (5) 24 CFR Part 570, including Subpart K
 - (6) Section 1497 of the Wall Street Reform and Consumer Protection Act of 2010 (Pub. L. 111-203, approved July 21, 2010) (“Dodd-Frank Act”) and
 - (7) OMB Circular A-122
 - (8) 24 CFR Part 84
 - (9) OMB Circular A-133
 - (10) 24 CFR Part 52
 - (11) Other regulations governing the use of the funds provided to Subrecipient, whether set forth herein or not, and any amendments or policy revisions thereto which shall become effective during the term of this Agreement.
- (b) Subrecipient shall abide by any and all other applicable federal or state laws, rules, regulations, and policies governing the funds provided under this Agreement, whether presently existing or hereafter promulgated. Subrecipient shall also comply with all other applicable federal, state or local statutes, ordinances, rules and regulations including, but not limited to, all applicable provisions of the County’s Code.
- (c) It is Subrecipient’s responsibility to read, understand, and comply with the regulations above if they are applicable to Subrecipient.
- (d) If Subrecipient believes that any of the laws, rules, regulations, or statutes are not applicable to it then it is Subrecipient’s responsibility to bring this to the County’s attention in writing. The County may waive the applicability under this Agreement of any of the above if they are indeed not applicable to Subrecipient.

3.3 Uniform Administrative Requirements, Cost Principles and Other Program Requirements.

Subrecipient shall comply with the uniform administrative requirements specified at 24 CFR §570.502 and §570.610. Subrecipient also agrees to comply with the provisions of OMB A-110 (implemented at 24 CFR part 85) or the related CDBG provision, as specified in 24 CFR §570.502(a). Subrecipient shall comply with the requirements and standards as set forth in Office of Management and Budget (“OMB”) Circulars A—87, “Cost Principles for State and Local Governments”. These principles shall be applied for all costs incurred whether charged on a direct or indirect basis. Subrecipient also agrees to adhere to the accounting principles and procedures required therein, utilize adequate internal controls, and maintain necessary source documentation for all costs incurred. Subrecipient shall also carry out each activity in compliance with all Federal laws and regulations described in subpart K of 24 CFR 570, except that Subrecipient shall not assume either County’s environmental responsibilities described at Sec. 570.604 or for initiating the review process under the provisions of 24 CFR part 52.

3.4 Records to be Maintained.

Subrecipient shall maintain all records required by 24 CFR §570.506 and 24 CFR §84.53, as modified by 24 CFR §570.502 and generally the applicable provisions of CDBG regulations in 24 CFR Part 570, all regarding records that must be maintained for the Project. Such records shall include but are not limited to:

- a) Records providing a full description of each activity undertaken, including its location;
- b) Records demonstrating that each activity undertaken meets one of the national objectives of the CDBG program (i.e., the criteria set forth in 24 CFR §570.208);
- c) Records required to determine the eligibility of activities;
- d) Records for each activity carried out for the purpose of Rehabilitation which is determined to benefit low, moderate and middle income persons including the total cost of the activity, including both NSP3 and non-NSP3 funds, for income levels of households that are 50 percent of area median and below, 51-80 percent, and 81-120 percent;
- e) Records required to document the Rehabilitation or disposition of real property demolished with CDBG assistance;
- f) Records which demonstrate compliance with the requirements in 24 CFR §570.505 regarding any change of use of real property acquired or improved with CDBG assistance;
- g) Records that demonstrate compliance with citizen participation requirements;
- h) Records which demonstrate compliance with requirements in 24 CFR §570.606 regarding acquisition, displacement, relocation, and replacement housing;
- i) Records documenting compliance with all Fair Housing and Equal Opportunity regulations;
- j) Financial records that document all transactions and that can be properly documented and audited, as required by 24 CFR Part 570.502 and 24 CFR 84.21-28 including, but not limited to, invoices, schedules containing comparisons of budgeted amounts and actual expenditures and construction progress schedules signed by the general contractor;
- k) Records and agreements related to lump sum disbursements to private financial institutions for financing rehabilitation as prescribed in 24 CFR §570.513;
- l) Other records necessary to document compliance with Subpart K of 24 CFR part 570;
- m) Copies of all bid documents, bids received, RFP's, RFQ's and any other procurement documents;
- n) Copies of all third party contracts and subcontracts; and
- o) Detailed records of Subrecipient's organization, financial and administrative systems, and the specific NSP3-funded project or activities. Please note that the above

descriptions are brief and provide only a summary of the records Subrecipient is required to maintain. Subrecipient agrees to consult 24 CFR §570.506 for a detailed description of the required records.

3.5 Proper Records.

Subrecipient shall maintain real property inventory records, which clearly identify properties purchased, improved, demolished or sold. Properties retained shall continue to meet eligibility criteria and shall conform to the “changes in use” restrictions specified in 24 CFR parts 570.503(b)(7), as applicable. For any homebuyer assistance, Subrecipient shall retain all evidence of each homebuyer’s household eligibility and the size and income of each household. For all properties which are to be rehabilitated, a pre-rehabilitation inspection report describing the deficiencies in each property and the scope of the rehabilitation per property should be provided to County. The address, appraised value, purchase offer amount, and discount amount of each home purchased must be documented in the applicable monthly report submitted by Subrecipient to County.

3.6 Retention of Records.

(a) All records must be accurate, complete and orderly. Subrecipient shall retain all accounting records, financial records, statistical records, supporting documents, and all other documents pertinent to the Project and this Agreement in accordance with the requirements of 24 CFR §84.53 for a period of at least five (5) years.

(b) This retention period begins on the date of the submission of County’s annual performance and evaluation report (CAPER) to HUD in which the activities assisted under the Agreement are reported for the final time. Notwithstanding the above, if any records are the subject of litigation, a claim or audit, that started before the expiration of the five year period, then such records must be kept until such audit findings have been resolved or completion and resolution of all of the issues, for a period of five (5) years thereafter. Records for any displaced person must be kept for five (5) years after he/she has received final payment. All files and records shall be made available for review to Wayne County Community Development office, HUD and/or any of their authorized representatives, who shall have access to and the right to examine any of the said records, documents or papers related to the Project during normal business hours and any other reasonable time requested by County or HUD. This same right to review and access will be imposed upon any third party or subcontractor and it is Subrecipient’s responsibility to ensure that any contract entered into with third parties contain all necessary clauses and language required by County and/or HUD to ensure compliance with this Agreement and with all federal, state, and local regulations. This section shall survive termination of this Agreement.

3.7 Monitoring and Inspections/Access to Records.

(a) All Subrecipient records with respect to any matters covered by this Agreement shall be made available to County or HUD or any authorized representatives at any time during normal business hours, as often as County deems necessary to audit, examine, inspect and make excerpts or transcripts of any and all relevant data. Subrecipient shall monitor the progress of the Project covered by this

Agreement and shall submit appropriate reports to County. County shall monitor Subrecipient performance and financial and programmatic compliance. Subrecipient shall allow on-site monitoring of the Subrecipient facility, its programs, and the homes it acquires and rehabilitates on as frequent a basis as County deems necessary and at any other time that may be required by HUD to determine compliance with NSP3 and CDBG regulations and this Agreement. Subrecipient shall also furnish and cause each of its own subcontractors to furnish all information and reports required hereunder and will permit access to its books, records and accounts by County, HUD, or any other authorized official or designee for purposes of investigation to ascertain compliance with the rules, regulations, and provisions stated herein.

- (b) Notwithstanding the above, Subrecipient will provide County with the original or one (1) copy of any record requested by County at any time during the term of this Agreement. If the original is provided during performance of the Agreement and it is needed by Subrecipient to complete any work under the Agreement, then the County must return it within seven (7) business days. The County will not unreasonably make such a demand.

3.8 Audits.

- (a) If Subrecipient is in receipt of total federal funds equal to or in excess of Five Hundred Thousand and No/100 Dollars (\$500,000), it shall have an independent audit performed in compliance with OMB Circular A-133. Subrecipient shall comply with the audit requirements contained in the Single Audit Act Amendments of 1996 (31 U.S.C. §§7501-7507). Audits shall be conducted annually. Subrecipient shall submit its annual audit to County and CDBG/HUD administrative office within ninety (90) days of the end of Subrecipient's fiscal year and as required by federal regulations, the cost of which is reimbursable from NSP3 funds.
- (b) Subrecipient also agrees to allow County's Internal Audit and Evaluation Department to conduct any audits County feels necessary at anytime during the term of this Agreement Subrecipient must fully clear any deficiencies noted in audit reports within thirty (30) days after receipt by Subrecipient. Failure of Subrecipient to comply with these audit requirements will constitute a violation of this Agreement and may result in the withholding of future payments.

SECTION 4: DISPLACEMENT, RELOCATION, ACQUISITION, AND REPLACEMENT OF HOUSING

4.1 No Displacement or Relocation

In accordance with NSP3 requirements, Subrecipient shall not acquire any homes as part of its Project, which are occupied or which otherwise would cause the displacement and relocation of any persons. All homes Subrecipient will acquire for its Project must be vacant immediately prior to the initiation of negotiations for the purchase of the home and at all times continuously through the date of acquisition of the home. For these

reasons the provisions of 24 CFR §570.606 regarding the displacement of persons as a result of activities funded under this Agreement shall not come into play. There will be no persons displaced under the Project which would require relocation assistance in compliance with 1) the Uniform Relocation Assistance and Real Property Acquisitions Policies Act of 1970, as amended (URA), and the implementing regulations at 49 CFR Part 24 and 24 CFR §570.606(b); 2) the requirements of 24 CFR §570.606(c) governing the Residential Anti-displacement and Relocation Assistance Plan under section 104(d) of the Housing and Community Development Act; and 3) the requirements in 24 CFR §570.606(d) governing relocation policies established by County. If however, County should make an exception and allow the acquisition of a home subject to the provisions of 24 CFR 570.606, Subpart K, the additional requirements found in the American Recovery and Reinvestment Act of 2009 shall also apply and must be adhered to in the actions taken relating to bona fide tenants residing in such property. Should that occur, Subrecipient shall include in its applicable monthly report documentation of its efforts to ensure that the provisions of this Section have been satisfied.

SECTION 5: PERSONNEL AND PARTICIPANT CONDITIONS

5.1 Non-Discrimination.

(a) In accordance with Section 109 of the Housing and Community Development Act of 1974, no person in the United States shall on the ground of race, color, religion, natural origin, or sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under, any program or activity funded in whole or in part with NSP3 funds. Subrecipient shall comply with 42 U.S.C. §5309, 24 CFR §570.602 and 24 CFR Part 6. Subrecipient shall at all times comply with Sections 104(b), 107 and 109 of Title 1 of the Housing and Community Development Act of 1974, as amended; Title VI of the Civil Rights Act of 1964 (42 U.S.C. §2000d, et seq.); and implementing regulations in 24 CFR Part 1; and Title VIII of the Community Redevelopment Act of 1968. Subrecipient agrees to include the applicable provisions of Section 9 of this Agreement in every subcontract or purchase order, specifically or by reference, so that such provisions will be binding upon each of its contractors and subcontractors.

(b) Subrecipient shall also not discriminate on the basis of age under the Age Discrimination Act of 1975 (42 U.S.C. §6101, et. seq.) and the implementing regulations contained in 24 CRF Part 146, or on the basis of disability as provided in Section 504 of the Rehabilitation Act of 1973, and the implementing regulations contained in 24 CFR Part 8. Any contracts entered into by Subrecipient shall include a provision for compliance with these regulations. Subrecipient shall keep records and documentation demonstrating compliance with these regulations.

5.2 **Equal Employment Opportunity.**

Subrecipient shall comply with 24 CFR §570.607; Executive Order 11246, as amended by Executive Orders 11375, 11478, 12086, and 12107 (Equal Employment Opportunity), and Executive Order 13279 (Equal Protection of the Laws for Faith Based Community Organizations); the rules, regulations, and relevant orders of the Secretary of Labor, and the implementing regulations in 41 CFR Part 60, and the provisions of Equal Employment Opportunity **in Title VI of the Civil Rights Act of 1964; and Sec. 120-192 of the Wayne County Code.** Any contracts or purchase orders entered into by Subrecipient shall include a provision for requiring compliance with these regulations and will, in all solicitations or advertisements for employees state that it is an Equal Opportunity/Affirmative Action employer. Subrecipient will, in all solicitations or advertisements for employees placed by or on behalf of Subrecipient state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin. Subrecipient shall keep records and documentation demonstrating compliance with these regulations.

5.3 **Land Covenants.**

This Agreement is subject to the requirements of Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and 24 CFR 570.601 and 570.602. In regard to the sale, lease, or other transfer of land acquired, cleared or improved with assistance provided under this Agreement, Subrecipient shall cause or require a covenant running with the land to be inserted in the deed or lease for such transfer, prohibiting discrimination as herein defined, in the sale, lease, or rental, or in the use or occupancy of such land, or in any improvements erected or to be erected thereon, provided that County and the United States are beneficiaries of and entitled to enforce such covenants. Subrecipient, in undertaking its obligation to carry out the program assistance hereunder, agrees to take such measures as are necessary to enforce such covenant, and will not itself so discriminate.

5.4 **Handicapped Accessibility Requirements.**

Subrecipient shall comply with the Architectural Barriers Act of 1968 (42 U.S.C. §§ 4151-4157), the Uniform Federal Accessibility Standards, as set forth in 24 CFR §570.614, the Americans with Disabilities Act of 1990 (42 U.S.C. §12131), Section 504 of the Rehabilitation Act of 1973 and the implementing regulations in 24 CFR Part 8, and all state and local laws requiring physical and program accessibility to people with disabilities. Any contracts entered into by Subrecipient shall include a provision for compliance with these regulations. Subrecipient shall keep records demonstrating compliance with these regulations. Subrecipient shall work with any homebuying household that includes a person with disabilities to provide accessibility modifications required under the policy of reasonable accommodations and reasonable modifications. All such modifications shall be considered to be eligible NSP costs under this Agreement.

5.5 **Utilization of Small Businesses and Minority/Women's Business Enterprises.**

(a) Subrecipient will use its best efforts to ensure that small businesses and minority/women's business enterprises are afforded the maximum practicable opportunity and included for consideration for participation in all construction, supply or

service contracts or in the performance of this Agreement. Subrecipient shall comply with Executive Order 11625, as amended by Executive Order 12007 (Minority Business Enterprises); Executive Order 12432 (Minority Business Enterprise Development); and Executive Order 12138, as amended by Executive Order 12608 (Women's Business Enterprise). Any contracts entered into by Subrecipient shall include a provision for compliance with these regulations. Subrecipient shall keep records demonstrating compliance with this provision.

(b) As used in this Agreement, the terms "small business" means a business that meets the criteria set forth in Section 3(a) of the Small Business Act, as amended (15 U.S.C. 632), and "minority and women's business enterprise" means a business at least fifty-one (51) percent owned and controlled by minority group developers or women. Subrecipient may rely on written representations by businesses regarding their status as minority and women-owned business enterprises in lieu of an independent investigation.

5.6 Political Activities.

Subrecipient shall comply with 24 CFR §570.207(a)(3) regarding political activities. NSP3 funds shall not be used for lobbying or political patronage activities. Subrecipient further agrees that no funds provided, nor personnel employed under this Agreement, shall in any way or to any extent be engaged in the conduct of political activities in violation of Chapter 15 of Title V, United States Code (Hatch Act). Subrecipient is prohibited from using funds provided herein or personnel employed in the administration of the program for inherently religious activities, lobbying, political patronage, and nepotism activities.

5.7 Anti-Lobbying Provision.

Subrecipient shall comply with the requirements set forth in 31 U.S.C. §1352 and implementing regulations at 24 CFR Part 87. Subrecipient shall complete and comply with the "Certification Regarding Lobbying" attached hereto as **Appendix "___"** and made a part hereof by this reference. An executed copy of the "Certification Regarding Lobbying" shall be kept in the files of each of the parties of this Agreement.

5.8 Conflicts of Interest.

(a) In the procurement of supplies, equipment, construction and services, Subrecipient shall comply with the conflict of interest rules in 24 CFR §84.42. Subrecipient shall comply with the conflict of interest provisions contained in 24 CFR §570.611 for those cases not governed by §84.42. Such cases include the acquisition and disposition of real property and the provision of assistance by the Subrecipient to individuals, businesses, and other private entities under eligible activities that authorize such assistance (i.e. rehabilitation).

(b) No member or Delegate to the Congress of the United States shall be permitted to any share or part of this Agreement or any benefit therefrom. No member, officer or employee of the County; or its designees, or agents; or member of the Wayne County Commission; and no other public official of County who exercises any functions or responsibilities with respect to the program during his tenure or for one (1) year thereafter, shall have any interest direct or indirect, in any contract or subcontract, or the proceeds thereof, for work to be performed under this agreement.

(c) The general rule states that no officer or employee of Subrecipient or its designees or agents or consultants who exercise or have exercised any functions or responsibilities with respect to activities assisted with NSP3 funds or who is in a position to participate in a decision making process or gain inside information with regard to these activities, may obtain a financial interest or benefit from a CDBG assisted activity, or have an interest in any contract, subcontract or agreement with respect thereto, or the proceeds thereunder, either for themselves or those with whom such person has family or business ties, during such person's tenure and for one year thereafter. Subrecipient agrees and warrants that it will establish and adopt safeguards to prohibit members, officers, employees and the like from using positions for a purpose that is or gives the appearance of being motivated for private gain for themselves or others with whom they have family, business, or other ties.

(d) Subrecipient must keep records supporting requests for waivers of conflicts.

5.9 Section 3 of the Housing and Urban Development Act of 1968/Equal Opportunity.

Subrecipient shall comply with the provisions of Section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. §1701u) and its implementing regulations contained in 24 CFR Part 135 regarding economic opportunities for low and moderate-income persons and the use of local businesses. Subrecipient shall comply with the provisions of the Section 3 Clause and require all subcontracts to contain a copy of the relevant Section 3 clause. Compliance with Section 3 shall be a condition of the Federal financial assistance provided under this Agreement and binding upon Subrecipient and any of Subrecipient's contractors and subcontractors. Subrecipient further agrees as follows;

1. Subrecipient shall ensure that opportunities for training and employment arising in connection with a housing rehabilitation (including reduction and abatement of lead-based paint hazards), housing construction, or other public construction project are given to low- and very low-income persons residing within the metropolitan area in which the NSP-funded project is located; where feasible, priority should be given to low- and very low-income persons within the service area of the project or the neighborhood in which the project is located, and to low- and very low-income participants in other HUD programs; and award contracts for work undertaken in connection with a housing rehabilitation (including reduction and abatement of lead-based paint hazards), housing construction, or other public construction project to business concerns that provide economic opportunities for low- and very low-income persons residing within the metropolitan area in which the NSP-funded project is located; where feasible, priority should be given to business concerns that provide economic opportunities to low- and very low-income residents within the service area or the neighborhood in which the project is located, and to low- and very low-income participants in other HUD programs.
2. Subrecipient warrants and agrees to include or cause to be included the criteria and requirements of the Section 3 provisions of this Agreement in every non-exempt subcontract in excess of One Hundred Thousand and No/ 100 Dollars (\$100,000). Subrecipient shall also take such action as the federal, state or local government may

direct to enforce aforesaid provisions. Subrecipient shall also keep records demonstrating compliance with these regulations, including 24 CFR §570.506(g)(5).

5.10 Vicinity Hiring.

(a) In addition to Section 3 requirements, NSP3, unlike the previous NSP programs, has a requirement for vicinity hiring. The purpose of vicinity hiring is to ensure that employment and other economic opportunities generated by HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State and local laws and regulations, be directed to low and very low-income persons, particularly those who are recipients of government assistance for housing, and to business concerns which provide economic opportunities to low and very low-income persons residing or located within the NSP3 Target Area.

(b) Subrecipient must prepare and implement a vicinity hiring plan. The plan will include activities capable of being documented for submittal to County. Activities may include, but are not limited to, some or all of the following:

1. Advertise the availability of jobs through notices in prominent locations within the NSP3 Target Area and surrounding areas. In addition, advertise in the local electronic or print media in languages spoken by NSP3 Target Area residents.
2. Distribute information door to door to residents and any businesses in the NSP3 Target Area.
3. Contact public housing developments within the NSP3 Target Area to provide information about hiring to public housing residents.
4. Provide contact information via telephone, e-mail or social media for residents and business within the NSP3 Target Area to make inquires or have questions answered.
5. Maintain a log of NSP3 Target Area applicants who apply for jobs whether they are hired or not. If they are not hired, provide the reason(s) why they were not hired.
6. Contact labor organizations or representatives in or near the NSP3 Target Area and inform their members of employment opportunities.
7. Create monthly reports to be delivered to the County that detail the Subrecipient's efforts in hiring low-income individuals and businesses from the NSP3 Target Area.
8. Notify Section 3 businesses of potential contract opportunities. Subrecipient shall maintain copies of all employment applications, including, but not limited to, applications of public housing residents, Section 8 certificate or voucher holders, or other Section 3 residents.

5.11 Wage Requirements.

Subrecipient agrees that, except with respect to the rehabilitation or construction of residential property containing less than eight (8) units, all contractors engaged under contracts in excess of \$2,000.00 for construction, renovation or repair work financed in whole or in part with assistance provided under this Agreement, shall comply with Federal requirements adopted by County pertaining to such contracts and with the applicable requirements of the regulations of the Department of Labor, under 29 CFR Parts 1, 3, 5 and 7 governing the payment of wages and ratio of apprentices and trainees to journey workers; provided that, if wage rates higher than those required under the regulations are imposed by state or local law, nothing hereunder is intended to relieve

Subrecipient of its obligation, if any, to require payment of the higher wage. Subrecipient shall cause or require to be inserted in full, in all such contracts subject to such regulations, provisions meeting the requirements of this paragraph. Subrecipient shall comply with the provisions of the Copeland Anti-Kick-Back Act (18 U.S.C. 874) as supplemented in the Department of Labor Regulations (29 CFR Part 3), as amended.

5.12 Religious Activities.

(a) Subrecipient shall comply with 24 CFR §570.200(j) regarding faith-based activities. NSP3 funds may not be used for the acquisition, construction, or rehabilitation of structures to the extent that those structures are used for inherently religious activities. NSP3 funds are eligible for the acquisition, construction, or rehabilitation of structures only to the extent that those structures are used for conducting eligible activities under the CDBG regulations. Where a structure is used for both eligible and inherently religious activities, NSP3 funds may not exceed the cost of those portions of the acquisition, construction, or rehabilitation that are attributable to eligible activities in accordance with the cost accounting requirements applicable to NSP3 funds. Sanctuaries, chapels, or other rooms that a CDBG-funded religious congregation uses as its principal place of worship, however, are ineligible for CDBG-funded improvements.

(b) Disposition of real property after the term of the grant, or any change in the use of the property during the term of the grant, is subject to government-wide regulations governing real property disposition.

5.13 Drug Free Workplace.

Subrecipient will provide a drug-free workplace. Subrecipient shall comply with the Drug-Free Workplace Act of 1988 and implementing regulations in 24 CFR Part 21 regarding maintenance of a drug-free workplace. Subrecipient shall complete and comply with the “Certification Regarding Drug-Free Workplace Requirements” attached hereto as **Appendix “__”** and made a part hereof by this reference. Subrecipient shall ensure that the provisions of the clauses in **Appendix “__”** are included in all third party contracts, subcontracts, and purchase orders that exceed Ten Thousand and No/100 Dollars (\$10,000), so that the provisions will be binding upon each subcontractor or vendor. Subrecipient will complete this certification and a copy shall be kept in the files of each of the parties of this Agreement.

5.14 Prohibition of Use of Excessive Force.

Subrecipient accepts and acknowledges the County’s “Certification Regarding Policy Prohibiting Use of Excessive Force”

5.15 Fair Housing Act.

Subrecipient shall comply with the Fair Housing Act (42 U.S.C. §§3601-3602) and Implementing regulations at 24 CFR Part 100 and 24 CFR 200, Subpart M, Executive Order 11063, as amended by Executive Order 12259 (Equal Opportunity in Housing) and their implementing regulations in 24 CFR Part 107 and shall keep records demonstrating compliance with this provision.

5.16 Resident Aliens.

Subrecipient shall comply with the requirements set forth in 24 CFR §570.613 regarding eligibility restrictions for certain resident aliens.

5.17 Debarment and Suspension.

Subrecipient shall comply with the debarment and suspension requirements set forth in 24 CFR Part 570.609 and 24 CFR Part 24. Subrecipient shall not enter into a contract with any person, agency or entity that is debarred, suspended or otherwise excluded from or ineligible for participation in federal assistance programs under Executive Order 12549 or 12689, "Debarment and Suspension," which is made a part of this Agreement by reference. In the event Subrecipient has entered into a contract or subcontract with a debarred or suspended party, no NSP3 funds will be provided as reimbursement for the work done by that debarred or suspended contractor or subcontractor. Subrecipient shall keep copies of the debarment and suspension certifications required by 24 CFR Part 24.

5.18 Building, Zoning, and Permits.

Subrecipient agrees to comply with all laws of the State of Michigan, the Wayne County Code, and local ordinances in which homes are located. In particular, Subrecipient shall comply with all applicable building and zoning laws and regulations and obtain all necessary permits for intended improvement or activities for the Project.

5.19 Substantial Amendment to the County's 2011 Annual Action Plan.

Subrecipient agrees that all shall be bound by the comply with all applicable terms and conditions set forth in the Substantial Amendment to the County's 2011 Annual Action Plan filed with the County and such other rules, regulations or requirements as HUD may reasonably impose in addition to the conditions of this Agreement or which are imposed or implemented by HUD subsequent to the execution of this Agreement by the parties hereto.

SECTION 6: ENVIRONMENTAL

6.1 Environmental Review Requirements.

In accordance with 24 CFR §570.604 and 24 CFR Part 58, the activities under this Agreement are subject to environmental review requirements. Subrecipient is not required to assume responsibility for an environmental review or assessment of this program pursuant to 24 CFR Part 58, nor responsible for initiation of an intergovernmental review of this program and its activities (24 CFR §570.604). However, Subrecipient is required to provide information about its activities in order for County to comply with its responsibility under 24 CFR part 58. A copy of the Environmental Review Record shall be maintained by both Subrecipient and County. Subrecipient shall submit to County the names and addresses of each seller of each home, the proposed scope of work for each home, and an estimate of cost of the work to be done prior to commencement of work. Subrecipient also agrees to assist County in addressing environmental issues that may arise during County's review process.

6.2 Environmental Protection.

Subrecipient shall comply with all applicable standards, orders or regulations of the Clean Air Act (42 U.S.C. §7401 et. seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251, et. seq.) EPA regulations pursuant to 40 CFR Part 50; National Environmental Policy Act of 1969; HUD Environmental Review Procedures at 24 CFR Part 58; and Section 508 of the clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). Violations shall be reported to County, HUD and EPA.

6.3 Flood Disaster Protection.

Subrecipient shall comply with the requirements of the Flood Disaster Protection Act of 1973 (42 U.S.C. §4106) and implementing regulations in 44 CFR Parts 59 through 79 in regard to the sale, lease or other transfer of land acquired, cleared or improved under the terms of this Agreement, as it may apply to the provisions of this Agreement.

6.4 Flood Insurance Program.

Should any acquisition, construction or rehabilitation of existing structures with assistance provided under this Agreement occur in an area identified as having special flood hazards by the Director of Federal Emergency Management, Subrecipient agrees to comply with all relevant and applicable provisions of 24 CFR §570.605 concerning the National Flood Insurance Program and that flood insurance will be required by County and must be provided by Subrecipient or homeowner.

6.5 Lead-Based Paint.

Lead-based paint is prohibited in the construction or rehabilitation of any properties assisted under this Agreement. Subrecipient agrees that any construction or rehabilitation of residential structures with assistance provided under this Agreement shall be subject to HUD Lead-Based Paint Poisoning Regulations at 24 CFR §570.608, which requires compliance with the Lead-Based Paint Hazard Reduction Act of 1992 (42 U.S.C. §§4821-4846), the Residential Lead-Based Paint Hazard Reduction Act of 1992 (42 U.S.C. §§4851-4856), and implementing regulations at 24 CFR Part 35, of which subparts A, B, J, K, and R apply to the CDBG Program. Such regulations pertain to all HUD-assisted housing and require that all owners, prospective owners, and tenants of properties constructed prior to 1978 be properly notified that such properties may include lead-based paint. Such notification shall point out the hazards of lead-based paint and explain the symptoms, treatment and precautions that should be taken when dealing with lead-based paint poisoning and the advisability and availability of blood-lead paint is found on the property, abatement measures may be undertaken. The regulations further require that, depending on the amount of Federal funds applied to a property, paint testing, risk assessment, treatment and/or abatement may be conducted.

6.6 Historic Preservation.

Subrecipient agrees to comply with the Historic Preservation requirements set forth in the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470) and the procedures set forth in 36 CFR §800, Advisory Counsel on Historic Preservation Procedures for Protection of Historic Properties, insofar as they apply to the performance

of this Agreement. In general, this requires concurrence from the State Historic Preservation Office for all rehabilitation and demolition of historic properties that are fifty (50) years old or older or that are included on a federal, state, or local historic property list. Subrecipient shall notify County's CDBG representative immediately upon determining that a property may fall into this category.

SECTION 7: DEFAULTS AND REMEDIES

7.1 Subrecipient Events of Default.

If Subrecipient fails to comply with any term of this Agreement or any of the following, it shall constitute an Event of Default under this Agreement:

- a) failure to comply with any of the rules, regulations or provisions referred to herein or governing NSP3 or CDGB awards, including, but not limited to, the NSP3 regulations, 24 CFR Parts 570 or such statutes, regulations, executive orders, and HUD guidelines, policies or directives as may become applicable at any time;
- b) failure to comply with any of the terms contained in this Agreement and such failure continues for a period of ten (10) days following notice thereof given by County to Subrecipient;
- c) failure to fulfill in a timely and proper manner its obligations under this Agreement;
- d) improper use of funds provided under this Agreement;
- e) submission by Subrecipient at any time of any material representation in any certification, report or communication to County that is determined by County to be false, misleading, or incorrect in any material manner;
- f) Subrecipient's failure to disclose to County, upon demand, the names of all persons with whom Subrecipient has contracted or intends to contract with for the construction or management of any portion of the Project, including contracts for services and/or labor; or
- g) Subrecipient's default under any of the grant documents executed by Subrecipient in connection with this grant by County (herein the "Grant Documents") which is not elsewhere specifically addressed herein and such default is not cured within the applicable cure period set forth in the Grant Documents, or if there is no cure period set forth therein, then within ten (10) days following the date of notice to Subrecipient thereof.

Notwithstanding any of the foregoing provisions to the contrary, if Subrecipient has failed to cure any default prior to the expiration of any applicable cure period, County may, at its sole option, cure such default on Subrecipient's behalf without waiving

Subrecipient's default, provided, however, that County shall be under no duty or obligation to do so.

7.2 No Waiver.

Failure of County to declare a default shall not constitute a waiver of any rights by County. Furthermore, the waiver of any default by County shall in no event be construed as a waiver of rights with respect to any other default, past or present.

7.3 County Remedies/Suspension and Termination.

(a) If Subrecipient materially fails to comply with any term of this Agreement or upon the occurrence of any Subrecipient Event of Default or any other breach of this Agreement and failure to cure or rectify a problem within the time otherwise allowed under this Agreement, County may take any one or combination of the following actions:

- 1) Suspend or terminate this Agreement, in whole or part, without further notice;
- 2) Withhold all further uncommitted funding and payments;
- 3) Terminate further funding with regard to some or all homes and enforce purchase or rehabilitation agreements for such homes;
- 4) Terminate funding for acquiring any additional homes for which Subrecipient has not already contracted to purchase and which it has contracted to purchase but has not already done so, while allowing funding to continue for contracts previously entered into or properties already purchased;
- 5) Require Subrecipient to assign any or all contracts to which Subrecipient is a party previously entered into in furtherance of this Agreement and convey any or all property acquired with funds provided under the Program, without terminating this Agreement;
- 6) Exercise all other rights and remedies available to it under the terms of this Agreement, the Grant documents, under statutory law, equity or under common law;
- 7) If County terminates this Agreement due to Subrecipient's breach of this Agreement, at County's election Subrecipient shall forfeit to County all unexpended monies provided under the Agreement.
- 8) At County's discretion, Subrecipient may also be required to refund all NSP3 funds awarded during the period of this Agreement already spent by Subrecipient and reimbursed by County.
- 9) Foreclose upon the Mortgage(s)
- 10) County may also exercise any one or more of the actions contained in 24 CFR §85.43(a)(1-5).
- 11) In the event Subrecipient is found to be in noncompliance with the nondiscrimination clauses of this Agreement or with any of such rules,

regulations or orders, this Agreement may be canceled, terminated or suspended in whole or in part and Subrecipient may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies involved as provided in Executive Order 11246 of September 24, 1965 or by rule, regulations, or order of the Secretary of Labor or as otherwise provided by law.

- (b) County may also terminate this Agreement for convenience in accordance with 24 CFR §85.44; provided however, for any funds which have been committed no termination of funding will be allowed. Upon termination of this Agreement, within five (5) days of the date of any demand by County, Subrecipient must deliver all property acquired in whole or in part with funds provided Subrecipient under this Agreement as well as title to all real property, free and clear of any liens or encumbrances except those in favor of County.
- (c) All remedies are cumulative and, to the extent permitted by law, the election of one or more remedies will not be construed as a waiver of any other remedy County may have available to it.

SECTION 8: INDEMNIFICATION AND INSURANCE

8.1 Indemnification.

To the extent allowed by law, Subrecipient must defend and hold harmless County, its elected and appointed officials, respective agents, officers, or employees from and against any and all liability, claims, demands, damages, losses, expenses, fees, fines, penalties, suits, proceedings, actions and costs of actions, including attorney's fees, whether or not suit is filed and if suit is filed, attorney fees and cost at all trial and appellate levels, of any kind caused by Subrecipient's performance or non-performance of this Agreement or because of or due to the existence of the Agreement itself.

8.2 Insurance.

(a) Without limiting Subrecipient's indemnification, Subrecipient must maintain insurance for the duration of this Agreement according to the following schedule:

- A. Workers' Compensation Insurance, which meets Michigan statutory requirements.
- B. Commercial General Liability Insurance
 - Each Occurrence \$1,000,000
 - Personal & Advertising Injury \$1,000,000
 - General Aggregate \$2,000,000
 - Products –Completed Operations \$2,000,000

not limited to federal income taxes and Social Security on the salary of any positions funded in whole or in part with NSP3 funds.

9.4 Severability.

This Agreement will be construed in accordance with the laws of the State of Michigan. It is agreed by the parties that if any covenant, condition, or provision contained in this Agreement is held to be invalid by any court of competent jurisdiction, such invalidity will not affect the validity of any other covenants, conditions, or provisions herein contained and all other parts shall nevertheless be in full force and effect.

9.5 Entire Agreement/Modification.

This Agreement constitutes the entire agreement between County and the Subrecipient for the use of funds received under this Agreement and it supersedes all prior or contemporaneous communications and proposals, whether electronic, oral, or written between the County and the Subrecipient with respect to this Agreement.

9.8 Notices.

(a) All notices, consents, approvals, requests and other communications (called "Notices") required or permitted under this Agreement shall be given in writing and mailed by first-class mail and addressed as follows:

If to the Recipient:

Charter of Wayne County
Wayne County NSP Program
500 Griswold, 10th floor
Detroit, Michigan 48226
Attention: Jill Ferrari, Community Development Director

With copies to:

County of Wayne
Wayne County Corporation Counsel
500 Griswold, Suite 11617
Detroit, Michigan 48226
Attention: Haaris Ahmad, Asst. Corporation Counsel

If to the Subrecipient:

(b) All notices shall be deemed given on the day of mailing. Either party to this Agreement may change its address for the receipt of notices at any time by giving notice to the other as provided. Any notice given by a party must be signed by an authorized representative of such party.

(c). Notwithstanding the requirement above as to the use of first-class mail, termination notices and change of address notices shall be sent by registered or certified mail, postage prepaid, return receipt requested.

9.9 Authorization.

Each party represents and warrants that all corporate actions and all governmental approvals necessary for the authorization, execution, delivery and performance of this Agreement have been taken and that each is ready and capable to perform its obligations. Each party further warrants that the person signing this Agreement is authorized to do so on behalf of its principal and is empowered to bind the principal to this Agreement.

9.10 Certifications

Subrecipient shall execute and comply with all of the NSP Certifications referenced in Appendix D to this Agreement in a form applicable to Subrecipient. If an applicable certification has not been attached to this Agreement then Subrecipient has the duty to request that form from County. Subrecipient understands it may be required to comply with future certifications as issued.

9.11 Jurisdiction

This Agreement, and all actions arising hereunder, shall be governed by, subject to, and construed according to the law of the State of Michigan. The Subrecipient agrees, consents and submits to the personal jurisdiction of any competent court in Wayne County, Michigan, for any action arising out of this Agreement. The Subrecipient agrees that service of process at the address and in the manner specified in this Agreement will be sufficient to put the Subrecipient on notice. The Subrecipient also agrees it will not commence any action against the County because of any matter whatsoever arising out of, or relating to, the validity, construction, interpretation and enforcement of this Agreement, in any courts other than those in the County of Wayne, State of Michigan unless original jurisdiction can be had in the United States District Court for the Eastern District of Michigan, Southern Division, the Michigan Supreme Court or the Michigan Court of Appeals.

SECTION 10: DEFINITIONS

For purposes of this Agreement the following definitions shall be applicable throughout, except in those instances where the context requires otherwise:

- 10.1** “Abandoned Home” means a home or residential property on which either (a) a mortgage, tribal leasehold or tax payments are at least 90 days delinquent, or (b) a code enforcement inspection has determined that the property is not habitable and the owner has taken no corrective actions within 90 days of notification of the deficiencies, or (c)

the property is subject to a court-ordered receivership or otherwise meets a state definition of an abandoned home or residential property. The County is adding an additional requirement to the must be vacant and unoccupied.

10.2 “Affordable Housing Units” means residential units priced so that they qualify for sale as Low Income, Moderate Income, or Middle Income Housing as further defined herein.

10.4 “Allocated Funds” means the Subrecipient’s share of the NSP3 Funds allocated to Subrecipient for providing the services necessary to complete the Project

10.5 “Blighted Structure” means a structure that exhibits objectively determinable signs of deterioration sufficient to constitute a threat to human health, safety, and public welfare. In particular a blighted structure or property meets the following criteria according to the Blighted Area Rehabilitation Act 344 of 1945:

a) The property has been declared a public nuisance in accordance with a local housing, building, plumbing, fire, or other related code or ordinance.

b) The property is an attractive nuisance because of physical condition or use.

c) The property is a fire hazard or is otherwise dangerous to the safety of persons or property.

d) The property has had the utilities, plumbing, heating, or sewerage disconnected, destroyed, removed, or rendered ineffective for a period of 1 year or more so that the property is unfit for its intended use.

e) The property is tax reverted property owned by a municipality, by a county, or by this state. The sale, lease, or transfer of tax reverted property by a municipality, a county, or this state shall not result in the loss to the property of eligibility for any project authorized under this act for the rehabilitation of a blighted area, platting authorized under this act, or tax relief or assistance, including financial assistance, authorized under this act or any other act.

f) The property is owned or is under the control of a land bank fast track authority under the land bank fast track act, 2003 PA 258, MCL 124.751 to 124.774. The sale, lease, or transfer of the property by a land bank fast track authority shall not result in the loss to the property of eligibility for any project authorized under this act for the rehabilitation of a blighted area, platting authorized under this act, or tax relief or assistance, including financial assistance, authorized under this act or any other act.

g) The property is improved real property that has remained vacant for 5 consecutive years and that is not maintained in accordance with applicable local housing or property maintenance codes or ordinances.

h) The property has code violations posing a severe and immediate health or safety threat and has not been substantially rehabilitated within 1 year after the receipt of notice to rehabilitate from the appropriate code enforcement agency or final determination of any appeal, whichever is later.

- 10.6 “Budget” means Subrecipient’s cost breakdown for the Project as submitted to and approved by County. This term is further defined in Section 2.1 of this Agreement.
- 10.7 “County’s Plan Amendment” shall mean the Substantial Amendment to the County’s 2011 Annual action Plan on file with the County.
- 10.8 “Contractor” shall mean those vendors selected by the Subrecipient in accordance with HUD Regulations as eligible vendors that are licensed, insured, and have obtained state certification to supply the services outlined in this Agreement.
- 10.9 “Current Market Appraised Value” shall mean the value of a foreclosed upon home or residential property that is established through an appraisal made in conformity with: (1) the appraisal requirements of the URA at 49 CFR 24.103, or (2) the Uniform Standards of Professional Appraisal Practice (USPAP), or (3) the appraisal requirements of Federal Housing Administration (FHA) or a government sponsored enterprise (GSE); and the appraisal must be completed or updated within 60 days of a final offer made for the property by a grantee, sub- recipient, developer, or individual homebuyer. However, if the anticipated value of the proposed acquisition is estimated at \$25,000 or less, the current market appraised value of the property may be established by a valuation of the property that is based on a review of available data and is made by the County.
- 10.10 “Date of Notice of Foreclosure” shall be deemed to be the date on which complete title to a property is transferred to a successor entity or person as a result of an order of a court or pursuant to provisions in a mortgage, deed of trust, or security deed. If none of these events occur in the acquisition of a foreclosed property (e.g. in a short sale), in order to ensure fair and equitable treatment of *bona fide* tenants and consistency with the NSP definition of foreclosed shall be deemed to be the date on which the property is acquired for the NSP-assisted project.
- 10.11 “Direct Activity Delivery Cost” shall mean the compensation Subrecipient will receive after Home Completion of a home for the cost and risk of undertaking the NSP3 activity prior to Home Completion, which shall not exceed the lesser of Fifteen Thousand and No/ 100 Dollars (\$15,000) or ten percent (10%) of the Rehabilitation cost of each home purchased with NSP3 funds, as further described in Section 7.1 hereof.
- 10.12 “Eligible Person or Household” shall mean one or more natural persons, or a household, which is determined by the County to be a Low Income, Moderate Income or Middle Income Person or Household according to the income limits adjusted for family size published annually by HUD and distributed by the State of Michigan, based upon the Annual Gross Income of the household.
- 10.13 “Foreclosed” shall mean and apply to a property if any of the following conditions apply:

- (a) the property's current delinquency status is at least 60 days delinquent under the Mortgage Bankers of America delinquency calculation and the owner has been notified;
- (b) the property owner is 90 days or more delinquent on tax payments;
- (c) under state, local, or tribal law, foreclosure proceedings have been initiated or completed; or
- (d) foreclosure proceedings have been completed and title has been transferred to an intermediary aggregator or servicer that is not an NSP3 grantee, contractor, subrecipient, developer, or end user.

- 10.14 "Home Completion" shall mean that a home for which Rehabilitation is at one hundred percent (100%), and the appropriate documentation has been submitted by Subrecipient to and approved by County.
- 10.15 "Low Income Housing" shall mean housing which is available for purchase by a household whose income do not exceed fifty percent (50%) of the Median Income of the Wayne County Area published annually by HUD and distributed by the State of Michigan.
- 10.16 "Middle Income Housing" shall mean housing which is available for purchase by those households whose incomes exceed eighty percent (80%) but are no more than one hundred twenty percent (120%) of the Median Income of the Wayne County Metropolitan Statistical Area ("MSA") published annually by HUD and distributed by the State of Michigan.
- 10.17 "Moderate Income Housing" shall mean housing which is available for purchase by those households whose incomes exceed fifty percent (50%) but are no more than eighty percent (80%) of the Median Income of the Wayne County Metropolitan Statistical Area ("MSA"), published annually by HUD and distributed by the State of Michigan.
- 10.18 "Program Income" means revenue (i.e., gross income) received by Subrecipient that is directly generated from the use of CDBG funds (which term includes NSP3 grant funds) as further defined in 24 CFR §570.500(a).
- 10.19 "Project" means the work Subrecipient shall complete in accordance with the terms of this Agreement generally as described in Section 2.3 hereof and **Appendix "A"** attached.
- 10.20 "Project Completion" means the day after Subrecipient has submitted to County all documentation in satisfactory form required under this Agreement concerning the Project, after Home Completion of all of the homes in the Project by Subrecipient pursuant to this Agreement.
- 10.21 "Project Completion Deadline" shall mean _____, by which date Subrecipient shall have attained Project Completion.
- 10.22. "Subrecipient" shall mean a public or private nonprofit agency, authority, or organization, or a for-profit entity authorized under § 570.201(o), receiving CDBG funds from the recipient or another subrecipient to undertake eligible activities. This includes any nonprofit organization (including a unit of local government) that a state awards funds to.

- 10.23** “Use” (for the purposes of HERA section 2301(c)(1)) shall mean funds are used when they are obligated by a state, unit of general local government, or any subrecipient thereof, for a specific NSP activity; for example, for acquisition of a specific property. Funds are obligated for an activity when orders are placed, contracts are awarded, services are received, and similar transactions have occurred that require payment by the state, unit of local government, or subrecipient during the same or a future period. Note that funds are not obligated for an activity when subawards (e.g., grants to subrecipients or to units of local government) are made.
- 10.24** “Vicinity” shall mean each neighborhood identified by the NSP3 grantee as being areas of greatest need.

All terms not otherwise defined herein shall have the meanings as defined or otherwise used in the County’s Substantial Plan Amendment and the enabling statutes, rules and regulations governing NSP3.

[SIGNATURES APPEAR ON FOLLOWING PAGE]

EXECUTION

IN WITNESS WHEREOF, Subrecipient and County have executed this Agreement on the dates set forth opposite their signatures below.

[Subrecipient]

By: _____

Its: _____

CHARTER COUNTY OF WAYNE

By: _____

Robert A. Ficano

Its: Wayne County Executive

County Commission approved and
Execution Authorized
by Resolution

No. _____

Date: _____

APPENDIX A

STATEMENT OF WORK

Subrecipient will perform the following steps in completing the Project:
[Insert Detailed Statement of Work here]

PROJECT SCHEDULE FOR REHABILITATION OF HOME AT 1749 2nd STREET

Signed Agreement for NSP3 with County		March/April 2013
Environmental Clearance, SHPO	Completed	
Design of house and specifications:	Completed	
<ul style="list-style-type: none"> • Architect • T.V. Sewer • Lead Based Paint & Asbestos Surveys • Survey Lot 		
Contract Awarded and Execution of Contract	2 weeks	June 2013
Rehabilitation and Geothermal - Completed	8 weeks	August 2013
<ul style="list-style-type: none"> • HERS Inspection and Compliance • Appraisal • Real Estate Agency Lists House • Housing Counseling for Prospective Buyers 		
Provide at least 2 open houses before receiving proposals	3 weeks	September 2013
<ul style="list-style-type: none"> • Marketing • Include Maintenance in general contractor agreement 		
Approve Purchase Agreement	1 week	September 2013
<ul style="list-style-type: none"> • Title Company 		
Close on House	4 weeks	October 2013
Family celebrates Thanksgiving in new home		November 2013

APPENDIX B
BUDGET

[INSERT BUDGET BREAKDOWN HERE]

BUDGET FOR THE REHABILITATION OF 1749 2ND STREET

<u>Trade Item</u>	<u>Cost</u>
Concrete (foundations, basement walls and basement slab)	\$ 6,000.00
Masonry	\$ 2,000.00
Rough Carpentry	\$ 9,000.00
Finish Carpentry	\$ 3,000.00
Insulation	\$ 9,000.00
Siding	\$ 3,000.00
Roofing	\$ 5,000.00
Doors (interior)	\$ 3,000.00
Doors and Windows (exterior)	\$ 10,000.00
Gypsum Board	\$ 5,000.00
Tile	\$ 1,500.00
Resilient Flooring	\$ 1,500.00
Carpet	\$ 2,000.00
Painting	\$ 4,000.00
Specialties	\$ 3,000.00
Cabinets (cabinets and counters)	\$ 4,000.00
Appliances	\$ 3,000.00
Plumbing	\$ 5,000.00
Electrical	\$ 5,000.00
Earth Works	\$ -
Site Utilities	\$ 6,000.00
Site Paving (driveways and sidewalks)	\$ 2,000.00
Landscaping	\$ 3,000.00
Contractors Fees (general requirements, overhead, profit)	\$ 8,000.00
Permits/Fees	\$ 2,000.00
Independent Testing Services	\$ 1,000.00
	<hr/>
Sub Total	\$ 106,000.00
Option Pave Alley	\$ 20,000.00
	<hr/>
Sub Total	\$ 126,000.00
Geothermal	\$ 30,000.00
	<hr/>
	\$ 156,000.00
15% Activity Delivery	\$ 23,400.00
	<hr/>
TOTAL REHABILITATION COST	\$ 179,400.00

The City purchased this property for \$18,228.08 for Non-Payment of the taxes thru Wayne County Tax Foreclosure

APPENDIX C

PROGRAM INCOME

Instructions for Completing the Quarterly Program Income Report

Income received by your organization directly generated from the use of Neighborhood Stabilization Program (NSP) funds, such as revolving loans, lien repayments, and sales from disposition of NSP property, must be reported to the Wayne County Community Development Division. At the end of each quarter (June, September, December, March), complete and submit this Program Income Form to 500 Griswold, Detroit, Michigan, 48226.

Use the Program Income Report in Excel to electronically record the amount of program income received during the quarter, and the amount received year to date (year beginning July). Also record the amount of program income that was spent on an eligible activity during the quarter being reviewed and year to date. The cumulative balance space should reflect the total amount of program income on hand at the end of the current reporting period (this would include any unspent program income received during the previous reporting period).

There is also a space provided on the form for you to record the source of the program income received in the quarter being reviewed. If the funds are coming from more than one source, please identify how much is coming from each source.

A NSP Request for Payment with all required supporting documentation for the expenses paid using program income must accompany the Program Income Report.

Any form not received by the tenth business day after the end of the quarter review may result in the suspension of payment on vouchers submitted to the County for reimbursement. Make certain the form is signed and dated on the bottom of the form.

Please remember to clear with our office any activity requiring the use of program income before program income is expended.

APPENDIX D
CERTIFICATIONS

Certifications for Non-Entitlement Local Governments

- (1) **Affirmatively furthering fair housing.** The jurisdiction certifies that it will affirmatively further fair housing.
- (2) **Anti-displacement and relocation plan.** The applicant certifies that it has in effect and is following a residential anti-displacement and relocation assistance plan.
- (3) **Anti-lobbying.** The jurisdiction must submit a certification with regard to compliance with restrictions on lobbying required by 24 CFR part 87, together with disclosure forms, if required by that part.
- (4) **Authority of jurisdiction.** The jurisdiction certifies that the consolidated plan or abbreviated plan, as applicable, is authorized under state and local law (as applicable) and that the jurisdiction possesses the legal authority to carry out the programs for which it is seeking funding, in accordance with applicable HUD regulations and other program requirements.
- (5) **Consistency with plan.** The jurisdiction certifies that the housing activities to be undertaken with NSP funds are consistent with its consolidated plan or abbreviated plan, as applicable.
- (6) **Acquisition and relocation.** The jurisdiction certifies that it will comply with the acquisition and relocation requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (42 U.S.C. 4601), and implementing regulations at 49 CFR part 24, except as those provisions are modified by the notice for the NSP program published by HUD.
- (7) **Section 3 of the Housing and Urban Development Act of 1968/Equal Opportunity.** Subrecipient shall comply with the provisions of Section 3 of the Housing and Urban Development Act of 1968 (12 U.S.C. §1701u) and its implementing regulations contained in 24 CFR Part 135 regarding economic opportunities for low and moderate-income persons and the use of local businesses. Subrecipient shall comply with the provisions of the “Section 3 Clause”, made a part hereof by this reference, and require all subcontracts to contain a copy of the Section 3 Clause. Compliance with the Section 3 Clause shall be a condition of the Federal financial assistance provided under this Agreement and binding upon County, Subrecipient and any of Subrecipient’s contractors and subcontractors. Subrecipient further agrees as follows;
 1. Subrecipient shall ensure that opportunities for training and employment arising in connection with a housing rehabilitation (including reduction and abatement of lead-based paint hazards), housing construction, or other public construction project are given to low- and very low-income persons residing within the metropolitan area in which the NSP-funded project is located; where feasible, priority should be given to

low- and very low-income persons within the service area of the project or the neighborhood in which the project is located, and to low- and very low-income participants in other HUD programs; and award contracts for work undertaken in connection with a housing rehabilitation (including reduction and abatement of lead-based paint hazards), housing construction, or other public construction project to business concerns that provide economic opportunities for low- and very low- income persons residing within the metropolitan area in which the NSP-funded project is located; where feasible, priority should be given to business concerns that provide economic opportunities to low- and very low-income residents within the service area or the neighborhood in which the project is located, and to low- and very low-income participants in other HUD programs.

2. Subrecipient warrants and agrees to include or cause to be included the criteria and requirements of the Section 3 provisions of this Agreement in every non-exempt subcontract in excess of One Hundred Thousand and No/ 100 Dollars (\$100,000). Subrecipient shall also take such action as the federal, state or local government may direct to enforce aforesaid provisions. Subrecipient shall also keep records demonstrating compliance with these regulations, including 24 CFR §570.506(g)(5).

(8) Citizen participation. The jurisdiction certifies that it is in full compliance and following a detailed citizen participation plan that satisfies the requirements of Sections 24 CFR 91.105 or 91.115, as modified by NSP requirements.

(9) Use of funds. The jurisdiction certifies that it will comply with the Dodd-Frank Wall Street Reform and Consumer Protection Act and Title XII of Division A of the American Recovery and Reinvestment Act of 2009 by spending 50 percent of its grant funds within 2 years, and spending 100 percent within 3 years, of receipt of the grant.

(10) The jurisdiction certifies:

- a. that all of the NSP funds made available to it will be used with respect to individuals and families whose incomes do not exceed 120 percent of area median income; and
- b. The jurisdiction will not attempt to recover any capital costs of public improvements assisted with CDBG funds, including Section 108 loan guaranteed funds, by assessing any amount against properties owned and occupied by persons of low- and moderate-income, including any fee charged or assessment made as a condition of obtaining access to such public improvements. However, if NSP funds are used to pay the proportion of a fee or assessment attributable to the capital costs of public improvements (assisted in part with NSP funds) financed from other revenue sources, an assessment or charge may be made against the property with respect to the public improvements financed by a source other than CDBG funds. In addition, with respect to properties owned and occupied by moderate-income (but not low-income) families, an assessment or charge may be made against the property with respect to the public improvements financed by a source other than NSP funds if the jurisdiction certifies that it lacks NSP or CDBG funds to cover the assessment.

(11) **Excessive force.** The jurisdiction certifies that it has adopted and is enforcing:

- a. A policy prohibiting the use of excessive force by law enforcement agencies within its jurisdiction against any individuals engaged in nonviolent civil rights demonstrations; and
- b. A policy of enforcing applicable state and local laws against physically barring entrance to, or exit from, a facility or location that is the subject of such nonviolent civil rights demonstrations within its jurisdiction.

(12) **Compliance with anti-discrimination laws.** The jurisdiction certifies that the NSP grant will be conducted and administered in conformity with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), the Fair Housing Act (42 U.S.C. 3601-3619), and implementing regulations.

(13) **Compliance with lead-based paint procedures.** The jurisdiction certifies that its activities concerning lead-based paint will comply with the requirements of part 35, subparts A, B, J, K, and R of this title.

(14) **Compliance with laws.** The jurisdiction certifies that it will comply with applicable laws.

(15) **Vicinity hiring.** In addition to Section 3 requirements, NSP3, unlike the previous NSP programs, has a requirement for vicinity hiring. The purpose of vicinity hiring is to ensure that employment and other economic opportunities generated by HUD financial assistance shall, to the greatest extent feasible, and consistent with existing Federal, State and local laws and regulations, be directed to low and very low-income persons, particularly those who are recipients of government assistance for housing, and to business concerns which provide economic opportunities to low and very low-income persons residing or located within the NSP3 Target Area.

Subrecipient shall prepare and implement a vicinity-hiring plan. The plan shall include activities capable of being documented for submittal to County. Activities may include, but are not limited to, some or all of the following:

1. Advertise the availability of jobs through notices in prominent locations within the NSP3 Target Area and surrounding areas. In addition, advertise in the local electronic or print media in languages spoken by NSP3 Target Area residents.
2. Distribute information door to door to residents and any businesses in the NSP3 Target Area.
3. Contact public housing developments within the NSP3 Target Area to provide information about hiring to public housing residents.
4. Provide contact information via telephone, e-mail or social media for residents and business within the NSP3 Target Area to make inquires or have questions answered.
5. Maintain a log of NSP3 Target Area applicants who apply for jobs whether they are hired or not. If they are not hired, provide the reason(s) why they were not hired.
6. Contact labor organizations or representatives in or near the NSP3 Target Area and inform their members of employment opportunities.

7. Create monthly reports to be delivered to the County that detail the Subrecipient's efforts in hiring low-income individuals and businesses from the NSP3 Target Area.
8. Notify Section 3 businesses of potential contract opportunities. Subrecipient shall maintain copies of all employment applications, including, but not limited to, applications of public housing residents, Section 8 certificate or voucher holders, or other Section 3 residents.

(16) **Development of affordable rental housing.** The jurisdiction certifies that it will abide by the procedures described in its NSP3 Abbreviated Plan to create preferences for the development of affordable rental housing for properties assisted with NSP3 funds.

Its:

Date

Certifications

INSTRUCTIONS CONCERNING LOBBYING AND DRUG-FREE WORKPLACE REQUIREMENTS:

A. Lobbying Certification

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

B. Drug-Free Workplace Certification

1. By signing and/or submitting this application or grant agreement, the grantee is providing the certification.

2. The certification is a material representation of fact upon which reliance is placed when the agency awards the grant. If it is later determined that the grantee knowingly rendered a false certification, or otherwise violates the requirements of the Drug-Free Workplace Act, HUD, in addition to any other remedies available to the Federal Government, may take action authorized under the Drug-Free Workplace Act.

3. For grantees other than individuals, Alternate I apply. (This is the information to which jurisdictions certify.)

4. For grantees who are individuals, Alternate II applies. (Not applicable jurisdictions.)

5. Workplaces under grants, for grantees other than individuals, need not be identified on the certification. If known, they may be identified in the grant application. If the grantee does not identify the workplaces at the time of application, or upon award, if there is no application, the grantee must keep the identity of the workplace(s) on file in its office and make the information available for Federal inspection. Failure to identify all known workplaces constitutes a violation of the grantee's drug-free workplace requirements.

6. Workplace identifications must include the actual address of buildings (or parts of buildings) or other sites where work under the grant takes place. Categorical descriptions may be used (e.g., all vehicles of a mass transit authority or State highway department while in operation, State employees in each local unemployment office, performers in concert halls or radio stations).

7. If the workplace identified to the agency changes during the performance of the grant, the grantee shall inform the agency of the change(s), if it previously identified the workplaces in question (see paragraph five).

8. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

<NONE>

Check X if there are workplaces on file that are not identified here; The certification with regard to the drug free workplace required by 24 CFR part 24, subpart F.

9. Definitions of terms in the Non-Procurement Suspension and Debarment common rule and Drug-Free Workplace common rule apply to this certification. Grantees' attention is called, in particular, to the following definitions from these rules:

"Controlled substance" shall mean a controlled substance in Schedules I through V of the Controlled Substances Act (21 U.S.C.812) and as further defined by regulation (21 CFR 1308.11 through 1308.15);

"Conviction" shall mean a finding of guilt (including a plea of nolo contendere) or imposition of sentence, or both, by any judicial body charged with the responsibility to determine violations of the Federal or State criminal drug statutes;

"Criminal drug statute" shall mean a Federal or non-Federal criminal statute involving the manufacture, distribution, dispensing, use, or possession of any controlled substance;

"Employee" shall mean the employee of a grantee directly engaged in the performance of work under a grant, including: (i) All "direct charge" employees; (ii) all "indirect charge" employees unless their impact or involvement is insignificant to the performance of the grant; and (iii) temporary personnel and consultants who are directly engaged in the performance of work under the grant and who are on the grantee's payroll. This definition does not include workers not on the payroll of the grantee (e.g., volunteers, even if used to meet a matching requirement; consultants or independent contractors not on the grantee's payroll; or employees of subrecipients or subcontractors in covered workplaces).

APPENDIX E

CERTIFICATION REGARDING DEBARMENT AND SUSPENSION

Subrecipient: [City]
Agreement: 2011 NSP3 Subrecipient Agreement
Agreement Year: _____, 2011 through _____ 2014

1. The Subrecipient certifies to the best of its knowledge and belief, that:
 - a. The Subrecipient and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal agency;
 - b. The Subrecipient and its principals have not, within a three-year period preceding this Agreement, been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or Agreement under public transaction; violation of Federal or State antitrust statutes, or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - c. The Subrecipient and its principals are not presently indicted or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in 1. B. above; and;

d. The Subrecipient and its principals have not, within a three-year period preceding this Agreement, had one or more public transactions (Federal, State or local) terminated for cause or default.

2. The certification in this clause is a material representation of fact upon which reliance was placed. When the Recipient determines that the Subrecipient knowingly rendered an erroneous certification, in addition to other remedies available to the Recipient, the Recipient may terminate this Agreement for cause or default.

3. The Subrecipient shall provide immediate written notice to the Recipient if, at any time, Recipient learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms “covered transaction”, “debarred”, “suspended”, “ineligible”, “lower tier covered transaction”, “Grantee”, “person”, “primary covered transaction”, “principal”, “proposal”, and “voluntarily excluded”, as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549: 45 CFR Part 76.

5. The Subrecipient agrees that it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the Recipient.

6. The Subrecipient further agrees that it will include the clause titled “Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction”, provided by the Recipient, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A Subrecipient may rely upon a certification of a participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded

from the covered transaction, unless it knows that the certification is erroneous. A Subrecipient may decide the method and frequency by which it determines the eligibility of its principals. Each Subrecipient may, but is not required to, check the Non-procurement List (of excluded parties).

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a Subrecipient is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. If a Subrecipient is in a covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Recipient, the Recipient may terminate this transaction for cause or default.

EXECUTION

IN WITNESS WHEREOF, the Subrecipient has executed this Certification on the dates set forth below.

WITNESSES:

SUBRECIPIENT

By: _____

Its:

Dated: _____

STATE OF MICHIGAN)

)

COUNTY OF WAYNE)

This document was acknowledged before me on _____
by _____, _____, on behalf of City of .

Notary Public,

Wayne County, Michigan

My Commission Expires: _____

Acting in County of _____, Michigan

APPENDIX F
PROMISSORY NOTE

FOR VALUE RECEIVED, on this _____ day of _____, 2012, the undersigned _____, (herein collectively the "Borrower") promises to pay the order of the County, a charter county of the State of Michigan, herein referred to as the "County", or its successors (herein "Lender"), the principal sum of _____ Dollars and 00/100 (\$_____.00) payable in lawful money of the United States of America. All payments shall be made at The Guardian Building, 500 Griswold, Detroit, Michigan, or at such place as may hereafter be designated by written notice from the Lender to the Borrower, on the dates and in the manner following.

The purpose of this note is to evidence the amount which has been or will be advanced to Borrower for the acquisition of the Properties encumbered by the Mortgages ("Mortgaged Properties") securing repayment of this Note. The entire principal amount of this Note shall be due and payable by no later than _____, except as otherwise stated herein. Should Borrower abide by all of the terms and conditions of the Loan Documents (as herein defined) while the Borrower owns the Mortgaged Properties ("Term"), repayment of the stated principal amount due may be reduced to the extent required by the NSP3 Subrecipient Agreement Between the Charter County of Wayne and Borrower ("NSP3 Agreement"). If all terms and conditions of the Loan Documents are timely fulfilled, the loan amount and any accrued interest will be forgiven. This loan is interest free, even in the event of a default.

Security. This Note is collateralized by, among other things, the Mortgages given by Borrower to Lender of even date herewith upon the "Mortgaged Properties", real property located in Wayne County, Michigan. The terms and all conditions of the Loan Documents are incorporated by reference the same as if set out herein in full. The term "Loan Documents" when used herein shall mean, collectively, the following documents: (i) this Note; (ii) the Mortgages; (iii) The NSP3 Agreement; and (v) all other documents or agreements arising under, related to, or made in connection with, the loan evidenced by this Note, as such Loan Documents may be amended. All persons to whom this Note may be transferred are referred to the Mortgages, the NSP3 Agreement, and other Loan Documents for their effect on this Note and the definitions and terms of which are incorporated herein by this reference.

Waiver and Consent. By the making, signing, endorsement or guaranty of this Note:

(a) Borrower and each co-signor, endorser, surety or guarantor waive protest, presentment for payment, notice of dishonor, notice of intent to accelerate and notice of acceleration;

(b) Each co-signor, endorser, surety or guarantor consents to any renewals or extensions of time for payment on this Note;

(c) Borrower and each co-signor, endorser, surety or guarantor consents to Lender's release of any co-signor, endorser, surety or guarantor;

(d) Borrower and each co-signor, endorser, surety or guarantor waive and consent to the release, substitution or impairment of any collateral securing this Note;

(e) Borrower and each co-signor, endorser, surety or guarantor consents to any modification of the terms of this note or any other Loan Document; and

(f) Borrower and each co-signor, endorser, surety or guarantor promise to pay all collection costs, excluding reasonable attorneys' fees, whether incurred in connection with collection, trial, appeal or otherwise.

Events of Default. Borrower shall be in default in this Note upon the occurrence of any of the following events, circumstances or conditions (each an "Event of Default"):

(a) Borrower's failure to make any payment of any sum due hereunder within ten (10) days of the due date thereof, without further notice or demand, or to make any other payment due from the Borrower to the Lender under any other Loan Document or other written obligation of any kind now existing or hereafter created.

(b) The existence of a default or breach of any of the terms of this Note or any other Loan Document that is not cured within any applicable grace and/or cure period.

(c) Borrower's continued failure to perform any other obligation imposed upon Borrower by the Mortgages, for a period of (10) days after written demand; provided (i) if Borrower reasonably cannot perform within such ten (10) day period, and in Lender's

reasonable judgment, Lender's security will not be impaired, Borrower may have such additional time to perform as Borrower reasonably may require, provided and for so long as Borrower proceeds with due diligence to cure said default; and (ii) if Lender's security reasonably will be materially impaired if Borrower does not perform in less than ten (10) days, Borrower will have only such period following written demand in which to perform as Lender reasonably may specify.

(d) Any verbal or written representation, statement or warranty of Borrower any co-signor, endorser, surety or guarantor of the Note, contained in the Note, the Mortgage or any other Loan Document, or in any certificate delivered pursuant hereto, or in any other instrument or statement made or furnished in connection herewith, proves to be incorrect or misleading in any material respect as of the time when the same shall have been made, including, without limitation, any and all financial statements furnished by Borrower to Lender as an inducement to Lender's making the loan evidenced by the Note or pursuant to any provision of the Mortgage.

Remedies after Default. At the option of Lender, all or any part of the principal and accrued interest on this Note, and all other obligations of the Borrower to the Lender shall become immediately due and payable without additional notice or demand, upon the occurrence of an Event of Default or at any time thereafter. Lender may exercise all rights and remedies provided by law, equity, this Note or any other Loan Document or any other obligation of the Borrower to the Lender. All rights and remedies as set forth in the Loan Documents are cumulative and concurrent and may be pursued singly, successively or together, at the sole discretion of Lender, and may be exercised as often as occasion therefore shall arise. Such remedies are not exclusive, and Lender is entitled to all remedies provided by law or equity, where or not expressly set forth therein. No act, omission, commission or waiver of Lender, including specifically any failure to exercise any right, remedy or recourse shall be effective unless set forth in a written document executed by Lender and then only to the extent specifically recited therein. A waiver or release with reference to one event shall not be construed as continuing, as a bar to, or as a waiver or release of, any subsequent right, remedy or recourse as to any subsequent event. The foregoing notwithstanding, this Note is a non-recourse note and the Lender's remedies are limited to the Property and any equipment and fixtures within or on the Property.

Time of the Essence. Time is of the essence with respect to each provision in this Note where a time or date for performance is stated. All time periods or dates for performance stated in this Note are material provisions of this Note.

Captions and Pronouns. The captions and headings of the various sections of this Note are for convenience only, and are not to be construed as confining or limiting in any way the scope or intent of the provisions hereof. Whenever the context requires or permits, the singular shall include the plural, the plural shall include the singular, and the masculine, feminine and neuter shall be freely interchangeable.

Disclaimer of Relationship. The Borrower and all co-signors, endorsers, sureties and guarantors, if any, to this obligation acknowledge that:

(a) The relationship between the Lender, Borrower and any co-signor, endorser, surety or guarantor is one of creditor and debtor and not one of partner or joint venturer;

(b) There exists no confidential or fiduciary relationship between Lender and Borrower and any co-signor, endorser, surety or guarantor imposing a duty of disclosure upon the Lender; and

(c) The Borrower and each co-signor, endorser, surety or guarantor has not relied on any representation of the Lender regarding the merits of the use of proceeds of the Loan. Borrower and any co-signor, endorser, surety or guarantor waive any and all claims and causes of action which exist now or may exist in the future arising out of any breach or alleged breach of a duty on the part of the Lender to disclose any facts material to this loan transaction and the use of the proceeds.

WAIVER OF TRIAL BY JURY. THE BORROWER HEREBY, AND THE LENDER BY ITS ACCEPTANCE OF THIS NOTE, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVE THE RIGHT EITHER MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION ARISING OUT OF, UNDER, OR IN CONNECTION WITH THIS NOTE AND ALL LOAN DOCUMENTS AND OTHER AGREEMENTS EXECUTED OR CONTEMPLATED TO BE EXECUTED IN CONNECTION HEREWITH, OR ARISING OUT OF, UNDER, OR IN CONNECTION WITH ANY COURSE OF

CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTION OF EITHER PARTY, WHETHER IN CONNECTION WITH THE MAKING OF THE LOAN, COLLECTION OF THE LOAN, OR OTHERWISE. THIS PROVISION IS A MATERIAL INDUCEMENT FOR THE LENDER MAKING THE LOAN EVIDENCED BY THIS NOTE.

IN WITNESS WHEREOF, this Note has been fully executed by the undersigned, as of the above date.

Michigan Research Institute, Inc, a Michigan.....

Print Name: _____

_____ Street

City _____, Michigan _____

APPENDIX F

WAYNE COUNTY NSP3

MORTGAGE AND SECURITY AGREEMENT

THIS MORTGAGE AND SECURITY AGREEMENT (herein "Mortgage") is made this _____ day of _____, 2012, by and between _____ (herein called the "Borrower"), and the Lender, the County of Wayne, a Michigan Charter County, whose address is The Guardian Building, 500 Griswold, Detroit, Michigan 48226 (herein called the "Lender").

MUTUAL UNDERSTANDINGS

A. Borrower and Lender have entered into an NSP3 Subrecipient Agreement Between the Charter County of Wayne and Borrower ("NSP3 Agreement"), a copy of which is on file in the Clerk's office of the Lender.

B. The NSP3 Agreement provides, among other things, that the Lender will loan to Borrower NSP3 funds for the rehabilitation of real property which is to be used to benefit Low-to-Moderate Income individuals to satisfy a National Objective under the NSP3 provisions.

C. The property fully described in attached **Attachment "A"** (herein the "Property" or "Mortgaged Property") shall be used in accordance with the NSP3 Agreement and HUD Restrictions and Regulations.

D. To ensure that the Property will be used in accordance with the NSP3 Agreement, Borrower has executed in favor of Lender a note in the original principal sum of _____ and 00/100 Dollars (\$ _____ .00), dated of even date herewith (herein "Note"), a copy of which is attached as **Attachment "B"**, with the balance of the indebtedness, if not sooner paid, due and payable as provided in the Note. The loan ("Loan") evidenced by the Note represents a portion of the funds advanced to acquire and rehabilitate the Property, which shall bear no interest while the debt is outstanding.

NOW THEREFORE, to secure the performance by Borrower of all covenants and conditions of the Note, the NSP3 Agreement and all other instruments securing repayment of the Note, and all existing or future notes, loans, guaranties, or other indebtedness owed by Borrower, to Lender, including all future advances, obligatory or otherwise, notwithstanding that such indebtedness may be secured by other mortgages, and including all expenses or obligations incurred by Mortgagee pursuant to any existing or future mortgage, loan or security agreement, and in order to charge the properties, interests and rights herein described with such payment and performance and for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable consideration, Mortgagor does hereby grant and/or assign in favor of Mortgagee a mortgage under the following terms and conditions:

1. REAL PROPERTY. Borrower does hereby grant, sell, warrant, convey, assign, transfer mortgage and set over and confirm unto Lender, all of Borrower's estate, right, title and interest in, to and under all that certain real property situated in the County of Wayne, State of Michigan, described on **Attachment "A"** attached hereto and made a part hereof, to have and to hold the same, together with each and every tenement, hereditament, easement, right, power, privilege, immunity and appurtenance thereunto belonging or in anywise appertaining and the reversion and reversions, remainder and remainders, and also the estate, right, title, interest, homestead, separate estate, property, possession and claim whatsoever in law as well as in equity of Borrower of, in and to the same in every part and parcel thereof unto Lender in fee simple (the "Property").

2. FIXTURES AND PERSONALTY. Borrower does hereby further grant unto Lender a security interest in **(i)** all personal property and fixtures now or hereafter affixed to or located on the Property, which is deemed to be fixtures and a part of the real property under applicable law procured with Loan proceeds; **(ii)** all articles of personal property and all materials delivered to the Property for use in any way thereon, or intended to be incorporated therein, and owned by Borrower procured with Loan Proceeds; **(iii)** all contract rights, general intangibles, actions and rights of action, including all rights to insurance policies and proceeds, all equipment, including parts, accessories, attachments, special tools, additions and accessions thereto procured with Loan proceeds, **(iv)** all sewer and water tap units, connection fees, impact fees, reservation fees and other deposits or payments made in connection with the reservation, allocation, permitting or providing of wastewater treatment and potable water to the Property, and any and all claims or demands relating thereto, now owned or which may hereafter be acquired by Borrower together with all right, title, interest, estate, equity, demand or claim to the provision of wastewater treatment and potable water to the Property, now existing, hereafter coming into existence, or which may hereafter be acquired by Borrower procured with Loan proceeds, **(v)** all permits and licenses, easements, all access, air and development rights, all minerals and oil, gas and other hydrocarbon substances, all royalties, all water and water rights and all other rights, hereditaments,

privileges, permits, licenses, franchises and appurtenances now or hereafter belonging or in way pertaining to the Property procured with Loan proceeds, (vi) all general intangibles relating to the development or use of the Property, including without limitation all permits, licenses and franchises, all names under or by which the Property may at any time be operated or known, and all rights to carry on business under any such names or any variant thereof, and all trademarks, trade names, logos and good will in any way relating to the Property procured with Loan proceeds, and (vii) all proceeds, products, replacements, additions, substitutions, renewals and accessions of any of the foregoing items. This Mortgage is a self-operative security agreement with respect to the above-described property, but Borrower agrees to execute and deliver on demand such other security agreements, financing statements and other instruments as Lender may request in order to perfect its security interest or to impose the lien hereof more specifically upon any of such property. Lender shall have all the rights and remedies in addition to those specified herein of a secured party under the Michigan Uniform Commercial Code. This Mortgage covers goods procured with Loan proceeds, which are or are to become fixtures on the Property, and this Mortgage constitutes and is filed as a "fixture filing" (as that term is defined in the Michigan Uniform Commercial Code) upon such of the Property which is or may become "fixtures." Borrower has an interest of record in the Property.

Everything referred to in paragraphs one (1) and two (2) and any additional property hereafter acquired by Borrower, and subject to the lien of this Mortgage or any part of these properties is herein referred to as the "Mortgaged Property".

PROVIDED ALWAYS, that if Borrower shall pay to Lender the Note at the time and in the manner stipulated therein, and in all other instruments securing the Note, and faithfully perform all the covenants and agreements in this Mortgage and in all other instruments securing the Note to be kept, performed or observed by Borrower, then this Mortgage shall cease and be void, but shall otherwise remain in full force and effect.

3. COMPLIANCE WITH NOTE AND MORTGAGE: WARRANTY OF TITLE.

Borrower shall comply with all provisions hereof, as well as those contained in the Note and every other instrument securing the Note, and will promptly pay to Lender the principal with interest thereon and all other sums required to be paid by Borrower under the Note, this Mortgage and all other instruments securing the Note. Borrower shall pay all sums of money secured hereby without any relief whatever from any valuation or appraisal laws. Borrower warrants that it is indefeasibly seized of the Property in fee simple and Borrower has lawful authority to convey, mortgage and encumber the same as provided by this Mortgage. Borrower warrants that Borrower has a good and marketable title to an indefeasible fee estate in the real property comprising the Property, subject to no lien, charge or

encumbrance except such as Lender has agreed to accept in writing and Borrower covenants that Borrower has full power and lawful authority to mortgage the Mortgaged Property in the manner and form herein done or intended hereafter to be done. Borrower will preserve such title and will forever warrant and defend the same to Lender and will forever warrant and defend the validity and priority of the lien hereof against the claims of all persons and parties whomsoever.

4. **PAYMENT OF TAXES AND LIENS.** Borrower shall pay all taxes, assessments, liens, levies, liabilities, obligations and encumbrances of every nature and kind whether now or hereafter imposed, levied or assessed on the Mortgaged Property, this Mortgage or the indebtedness secured hereby. All such payments shall be made before they become delinquent and before any penalty is incurred. Insofar as any such lien or encumbrance is of record the same shall be promptly satisfied or released and evidence of such satisfaction or release shall be given to Lender.

5. **SATISFACTION OF NOTE.** As provided in the Note and generally as set forth in Section 14 hereof, Borrower may not be required to pay the entire principal amount of the Note, under the conditions on use of the Property as outlined in the NSP3 Agreement and applicable federal and state laws, rules and regulations (“Program”), but in any event this Mortgage and the Note will be satisfied and the Mortgaged Property released from the lien of this Mortgage, at the time that all requirements of the NSP3 Agreement have been satisfied and HUD Restrictions on the Mortgaged Property have been removed.

6. **WORK ON PROPERTY.** All work (“Work”) on the property shall be performed in compliance with the requirements of the NSP3 Agreement. The Work shall be completed as specified therein. Failure to perform and complete the Work, as specified in the NSP3 Agreement shall constitute a default under this Mortgage. No amendment, change or deviation shall be made in the Work approved by the Lender, the plans or any other agreement pertaining to the Work, without the prior written consent of the Lender. All change orders must be approved in writing by the Lender before any work begins. All loan proceeds shall be used only in compliance with the NSP3 Agreement. Any other use shall constitute a default hereunder. Borrower covenants to perform all Work in a workmanlike manner.

7. **INSURANCE.** Borrower shall maintain in force at all times while this Mortgage and the NSP3 Agreement remain in effect, all appropriate policies of insurance described in the NSP3 Agreement, concerning its operations. In event of loss, Borrower shall give immediate notice by mail to Lender and Lender may make proof of loss if not made promptly by Borrower, and each insurance company concerned is hereby authorized and directed to make payments for such loss directly to Lender instead

of Borrower and the insurance proceeds or any part thereof may be applied by Lender at its option, after deducting all its expenses excluding attorneys' fees, either to reduction of the indebtedness hereby secured or to the restoration or repair of the property damaged. Lender is hereby authorized, at its option, to settle and compromise any claims, awards, damages, rights of action and proceeds, and any other payment or relief under any insurance policy. In the event of foreclosure of this Mortgage or other transfer of title to the Mortgaged Property in extinguishment of the indebtedness secured hereby, all right, title, and interest of Borrower in and to any insurance policies then in force shall pass to the purchaser or grantee.

8. CARE OF MORTGAGED PROPERTY. Borrower shall not remove or demolish any building or other property forming a part of the Mortgaged Property without the written consent of Lender, or permit, commit, or suffer any waste, impairment or deterioration of the Mortgaged Property or any part thereof, and shall keep the same and the improvements thereon in first-class condition and repair. Borrower shall notify Lender in writing within five (5) days of any serious injury, material damage, or impairment of or occurring on the Property including, but not limited to, serious injury and or loss by death or otherwise occurring on the Property.

9. CONDEMNATION. If all or any part of the Mortgaged Property shall be damaged or taken through condemnation (which term when used herein shall include any damage or taking by any governmental authority or any other authority authorized by the laws of the State of Michigan or the United States of America and apply to any transfer by private sale in lieu thereof), either temporarily or permanently, then the entire indebtedness and other sums secured hereby shall, at the option of Lender, become immediately due and payable. Lender shall be entitled to all compensation awards, damages, claims, rights of actions and proceeds of, or on account of any such damage or taking through condemnation and is hereby authorized, at its option, to commence, appear in and prosecute, in its own or Borrower's name, any action or proceeding relating to any condemnation, and to settle or compromise any claim in connection therewith. All such compensation awards, damages, claims, rights of action and proceeds, and any other payments or relief, and the right thereto, are hereby assigned by Borrower to Lender, who, after deducting therefrom all its expenses including attorneys' fees, may release any monies so received by it without affecting the lien of this Mortgage or may apply the same, in such manner as Lender shall determine, to the reduction of the sums secured hereby and to any prepayment charge provided in the Note, this Mortgage or any other instruments securing the Note. Any balance of such monies then remaining shall be paid to Borrower. Borrower agrees to execute such further assignments of any payments, awards, damages, claims, rights of action and proceeds as Lender may require.

10. TOXIC WASTE. Since Lender has verified the status of the property with regard to environmental issues, Borrower shall have no liability for the state of the environmental condition of the property, except for environmental contamination that Borrower causes or allows to occur. Borrower will not utilize the Property, nor any part thereof, to treat, deposit, store, dispose of, or place any hazardous substances, as defined by 42 U.S.C.A. Section 9601 (14); nor will Borrower authorize any other person or entity to treat, deposit, store, dispose of, or place any hazardous substance, as defined above, on the Property, or any part thereof; and based solely upon its own knowledge without having conducted an investigation, no other person or entity has treated, deposited, stored, disposed of or placed any hazardous substance, as defined above, on the Property or any part thereof.

In the event a release, occurring now or at some future date, or threatened release of hazardous substance is discovered on the Property, regardless of whether the Borrower is in any way responsible for such release, which subjects the Lender to liability, in any form whatsoever, under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C.A. Section 9607, under Michigan law or under other applicable statutory or common law, Borrower agrees to indemnify, hold harmless and defend Lender from and against any and all claims, damages or liability that might arise from the existence of hazardous substances on the Property. Such indemnification shall include all damages, costs, expenses, attorneys' fees, or other expense which Lender may incur.

11. LENDER'S RIGHT TO MAKE CERTAIN PAYMENTS. In the event Borrower fails to pay and/or discharge the taxes, assessments, liens, levies, liabilities, obligations and encumbrances, or fails to keep Mortgaged Property insured or to deliver the policies, premiums paid, or fails to maintain and repair the Mortgage Property as herein agreed, Lender is hereby authorized at its election to pay and/or discharge the taxes, assessments, liens, levies, liabilities, obligations and encumbrances or any part thereof, to procure and pay for such insurance or to make and pay for such maintenance and repairs, without any obligation on its part to determine the validity and/or necessity thereof, and without Lender waiving or affecting any option, lien, equity or right by virtue of this Mortgage. The full amount of each and every such payment made by Lender shall be immediately due and payable by Borrower and shall be secured by the lien of this Mortgage. Nothing herein contained shall be construed as requiring Lender to advance or expend monies for any of the purposes mentioned in this paragraph.

12. PAYMENT OF EXPENSES. Borrower shall pay all costs, charges and expenses, including attorneys' fees, whether incurred at the trial or appellate level, disbursements and costs of abstracts of title, incurred or paid at any time by Lender because and/or in the event of the failure on the part of Borrower promptly and fully to perform, comply with and abide by each and every stipulation, agreement, condition and covenant of the Note, this Mortgage and any other instrument securing the

Note. Such costs, charges and expenses shall be immediately due and payable, without notice or demand. All such costs, charges and expenses so incurred or paid shall be secured by the lien of this Mortgage.

13. **NSP3 AGREEMENT**. Borrower agrees to comply with the covenants and conditions of the NSP3 Agreement between Borrower and Lender, which is hereby incorporated by reference herein and made a part of this Mortgage. The definitions set forth in the NSP3 Agreement are specifically incorporated herein by reference.

14. **NSP3 REQUIREMENTS**. It is understood and agreed by Borrower and Lender that the loan evidenced by the Note has been granted and must be administered in accordance with the terms of the Program. The intent of the Program is to assist Borrower in acquiring the Property to meet a National Objective serving Low-to-Moderate Income Individuals in compliance with NSP3 provisions..

15. **ALTERATIONS, ETC.** The Borrower shall first obtain the written consent of Lender, such consent to be granted or withheld at the sole discretion of such Lender, before (a) removing or demolishing any building now or hereafter erected on the Property, (b) altering the arrangement, design or structural character thereof, (c) making any repairs which involve the removal of structural parts or the exposure of the interior of such buildings to the elements, (d) exploration, drilling, prospecting, mining, excavation or removal of any earth, sand, dirt, rock, minerals, oil, or any other substance, or (e) removing or exchanging any tangible personal property which is part of the Mortgaged Property, unless replaced with tangible personal property of comparable value.

16. **EVENTS OF DEFAULT**. Subject to any grace periods or right to cure as provided in the Note, any one of the following shall constitute an event of default by Borrower.

a. Failure to pay, as and when due and payable, any installments of principal or interest due under the Note, or any deposits for taxes and assessments or insurance premiums due hereunder, or any other sums to be paid by Borrower hereunder or any other instrument securing the Note.

b. Failure to duly keep, perform and observe any covenant, condition or agreement in the Note, this Mortgage, or any other instrument securing the Note.

c. Failure to perform and comply with any applicable NSP provision.

d. Failure to punctually and properly comply with any of the terms contained in the NSP3 Agreement or any of the other documents executed in conjunction with the Property, or use of NSP3 funds other than as authorized by the NSP3 Agreement.

e. Failure to timely expend NSP3 funds or to meet any of the time requirements as set forth in the NSP3 Agreement.

f. Failure to use the Property as required by the NSP3 Agreement.

h. If Borrower is deemed in default under any other NSP3 agreement with Lender even if unrelated to this loan or the Property or under the terms of other financing or mortgages used for the Property or other projects and the default extends beyond the applicable cure period provided in those documents.

i. If either Borrower or any guarantor or endorser of the Note: (i) files a voluntary petition in bankruptcy; (ii) is adjudicated as a bankrupt or insolvent; (iii) files any petition or answer seeking or acquiescing in any reorganization, management, composition, readjustment, liquidation, dissolution or similar relief for Borrower under any law relating to bankruptcy, insolvency or other relief for debtors; (iv) seeks, consents to or acquiesces in the appointment of any trustee, receiver, master or liquidator for Borrower or for all or any part of the Mortgaged Property; (v) makes any general assignment for the benefit of creditors; (vi) makes any admission in writing of Borrower's inability to pay its debts generally as they become due; (vii) a court of competent jurisdiction enters an order, judgment or decree approving a petition filed against Borrower seeking any reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under any present or future federal, state or other statute, law or regulation relating to bankruptcy, insolvency or other relief for debtors, which order, judgment or decree remains unvacated and unstayed for an aggregate of sixty (60) days whether or not consecutive.

j. Any breach of any warranty or incorrect statement made of a material nature within any representation of Borrower, contained in the Note, this Mortgage, the NSP3 Agreement or any other instrument securing the Note or otherwise referenced in this Mortgage.

k. An event of default occurs under any existing or future notes, loans, advances, guaranties, or other indebtedness owed to the Lender by the Borrower, or under any instrument or document referenced in this Mortgage.

17. ACCELERATION. If each and every one of the agreements, stipulations, conditions and covenants of the Loan Documents are not fully performed, complied with and abided by, Borrower shall be in default and all the indebtedness secured hereby shall become and be immediately due and payable, at the option of the Lender, without notice or demand which are hereby expressly waived by Borrower, in which event, Lender may avail itself of all rights and remedies available to it at law or in equity, including, but not limited to foreclosure of this Mortgage and the sale of Borrower's interest in the Mortgaged Property.

18. OTHER REMEDIES. If an event of default shall have occurred, Lender may proceed by suit or suits at law or in equity or by any other appropriate proceeding or remedy: **(a)** to enforce payment of the Note or the performance of any term hereof or any other right; **(b)** to foreclose this Mortgage and to sell, as an entirety or in separate lots or parcels, the Mortgaged Property under the judgment or decree of a court or courts of competent jurisdiction; **(c)** to collect all rents, issues, profits, revenues, income, proceeds or other benefits from the Mortgaged Property; **(d)** to have a receiver appointed, as a matter of strict right, without notice and ex parte, and without regard to the value or adequacy of the security or the solvency of the Borrower, to enter upon and take possession of the Mortgaged Property and to collect all rents, issues, profits, revenues, income or other benefits thereof and apply the same as the court may direct and such receiver shall have all rights and powers permitted under the laws of the State of Michigan; **(e)** without notice, in its sole discretion to enter upon and take possession of the Mortgaged Property of any part thereof, to perform any acts Lender deems necessary or proper to conserve the security and to collect and receive all rents, issues and profits thereof, including those past due as well as those accruing thereafter, and **(f)** to pursue any other remedy available to it, including, but not limited to taking possession of the Mortgaged Property without notice or hearing to Borrower. Lender may take action either by such proceedings or by the exercise of its power with respect to entry or taking possession, or both, as Lender may determine. In any such case Lender or the receiver may also take possession of and for these purposes use any and all personal property contained in or located on the Mortgaged Property acquired with the Loan proceeds. The expenses (including but not limited to receiver's fees, costs and against compensation) incurred pursuant to the powers herein contained shall be secured hereby. Lender shall (after payment of all costs and expenses incurred) apply such rents, issues and profits received by it on the indebtedness secured hereby in such order as Lender determines. The right

to enter and take possession of the Mortgaged Property, to manage and operate the same, and to collect the rents, issues and profits thereof, whether by a receiver or otherwise, shall be cumulative to any other right or remedy hereunder or afforded by law, and may be exercised concurrently therewith or independently thereof. Lender shall be liable to account only for such rents, issues and profits actually received by Lender. Borrower waives all rights to direct the order in which any of the Property will be sold in the event of any sale under this Mortgage, and also any right to have any of the Property marshaled upon any sale.

19. **NO WAIVER.** No delay or omission of Lender or of any holder of the Note and Mortgage to exercise any right, power or remedy accruing upon any event of default shall exhaust or impair any such right, power or remedy or be construed as a waiver of any such event of default or constitute acquiescence therein. No waiver by Lender of any default shall constitute a waiver of or consent to subsequent defaults.

20. **NON-EXCLUSIVE REMEDIES.** No right, power of remedy conferred upon or reserved to Lender by the Note, this Mortgage or any other instrument securing the Note is exclusive of any other right, power or remedy, but each and every such right, power and remedy shall be cumulative and concurrent and shall be in addition to any other right, power or remedy given hereunder or under the Note or any other instrument securing the Note, or now or hereafter existing at law, in equity or by statute.

21. **FURTHER ADVANCES.** This Mortgage is given to secure not only existing indebtedness, but also such future advances, whether such advances are obligatory or are to be mad at the option of Lender, or otherwise, as are made within twenty (20) years from the date hereof, to the same extent as if such future advances are made on the date of the execution of this Mortgage. The total amount of indebtedness that may be secured at one time shall not exceed three (3) times the face amount of the Note and any disbursements made for the payment of taxes, levies or insurance on the Mortgaged Property.

22. **OBLIGATION OF BORROWER.** Borrower shall pay the cost of releasing or satisfying this Mortgage of record.

23. **FURTHER ASSURANCES.** Borrower, from time to time, will execute, acknowledge, subscribe and deliver to or at the direction of Lender such documents and further assurances as Lender may reasonably require for the purpose of evidencing, perfecting or confirming the lien and security interest created by this Mortgage, or the security intended to be

afforded by any other documents related to securing repayment of the Note. Without limitation of the foregoing, Lender will defend, indemnify and hold Lender harmless with respect to any suit or proceeding in which the validity, enforceability or priority of the lien or security interest, or both, is endangered or contested, directly or indirectly, and will provide Lender with such security for the defense of any such suit or proceeding as Lender reasonably may require. In the event that Borrower fails to undertake such defense, Lender may do so, at the expense of Borrower. All costs, expenses and losses, if any, so incurred by Lender, excluding attorneys' fees, regardless of whether suit is brought and, if suit is brought, for all administrative, trial, appellate and bankruptcy proceedings, if any, will constitute advances by Lender as provided in section.

24. PLURAL/SINGULAR. The terms "Borrower" and "Lender" shall be deemed to include both the singular and plural where appropriate.

25. INSPECTION. Lender or its agent shall have access to the Mortgaged Property and may make reasonable inspections of the Mortgaged Property to verify that the improvements or activities to be completed with the Loan proceeds are in conformance with the Program. Any such inspections shall be solely for Lender's benefit.

26. BOOKS AND RECORDS. Borrower shall keep and maintain at all times at Borrower's address provided to Lender, or such other place as Lender may approve in writing, complete and accurate books of accounts and records adequate to reflect correctly the results of the operation of the Property, compliance with all applicable NSP3 and NSP3 regulations and all other federal and state regulations, and copies of all written contracts, leases and other documents which affect the Property. Such books, records, contracts, leases and other documentation shall be subject to examination and inspection at any reasonable time by Lender.

27. NOTICE. The mailing of written notice or demand addressed to the Borrower at the last address actually furnished to the Lender, postage prepaid, by United States mail, shall be sufficient notice or demand in any case arising under this Mortgage and required by the provisions hereof or by law. Any notice required by the Mortgage will be deemed to have been given to Borrower when given in the manner designated herein.

28. JOINT AND SEVERAL LIABILITY; CAPTIONS. All covenants, agreements and undertakings shall be joint and several. The captions and headings of the paragraphs of this

Mortgage are for convenience only and are not to be used to interpret or define the provisions hereof.

29. SEVERABILITY; GOVERNING LAW. Should any of the terms, conditions, obligations of paragraphs of this Mortgage be determined to be invalid, illegal or unenforceable in any respect, the validity of the remaining terms, conditions or paragraphs shall in no way be affected or prejudiced thereby. This Mortgage shall be governed by the laws of the State of Michigan.

30. WAIVER OF TRIAL BY JURY. THE BORROWER HEREBY, AND THE LENDER BY ITS ACCEPTANCE OF THIS NOTE, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVE THE RIGHT EITHER MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION ARISING OUT OF, UNDER, OR IN CONNECTION WITH THIS NOTE AND ALL LOAN DOCUMENTS AND OTHER AGREEMENTS EXECUTED OR CONTEMPLATED TO BE EXECUTED IN CONNECTION HEREWITH, OR ARISING OUT OF, UNDER, OR IN CONNECTION WITH ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTION OF EITHER PARTY, WHETHER IN CONNECTION WITH THE MAKING OF THE LOAN, COLLECTION OF THE LOAN, OR OTHERWISE. THIS PROVISION IS A MATERIAL INDUCEMENT FOR THE LENDER MAKING THE LOAN EVIDENCED BY THIS NOTE.

[Signatures Start on Next Page]

IN WITNESS WHEREOF, the Mortgagor has duly executed this Mortgage on the day and year first above written.

WITNESSES

(Print Name)

FOR MORTGAGOR

(Print Name)

(Print Name)

ATTACHMENT A

LEGAL DESCRIPTION

1749 2nd STREET, WYANDOTTE, MICHIGAN

Lot 36 and all of Lot 37 except the south 10 feet, Fordney's Subdivision as recorded in Liber 21, Page 26 of Plats, Wayne County Records.

ATTACHMENT B

[Promissory Note]



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
4/9/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Daly Merritt Insurance 100 Maple Wyandotte MI 48192	CONTACT NAME: Cynthia Bayer	
	PHONE (A/C, No, Ext): (734) 283-1400 FAX (A/C, No): (734) 283-1197 E-MAIL ADDRESS: cindy.bayer@dalymeritt.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Phoenix Insurance Co.	25623
INSURED City of Wyandotte 3131 Biddle Wyandotte MI 48192-0000	INSURER B: Travelers Indemnity Co.	25658
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES

CERTIFICATE NUMBER: CL134904794

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			ZLP14T93648	4/5/2013	1/1/2014	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ Excluded PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			8103037P045	4/5/2013	1/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Property Protection Cov. \$
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE			ZUP14T9365A13PB	4/5/2013	1/1/2014	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
	DED <input checked="" type="checkbox"/> RETENTION \$ 10,000						
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A				WC STATUTORY LIMITS OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CANCELLATION

The Charter County of Wayne Wayne County Community Development Division Development Growth Engine (EDGE) - NSP3 Guardian Building 500 Griswold Detroit, MI 48226	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE James Daly/BAYERC

ACORD 25 (2010/05)

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INS025 (201005) 01

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
4/9/2013

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PRODUCER Daly Merritt Insurance 100 Maple Wyandotte MI 48192		CONTACT NAME: Cynthia Bayer PHONE (A/C, No, Ext): (734) 283-1400 FAX (A/C, No): (734) 283-1197 E-MAIL ADDRESS: cindy.bayer@dalymeritt.com	
		INSURER(S) AFFORDING COVERAGE	NAIC #
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INSURED City of Wyandotte 3131 Biddle Wyandotte MI 48192-0000		INSURER B: Travelers Indemnity Co.	25658
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES

CERTIFICATE NUMBER: CL134904794

REVISION NUMBER:

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INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			ZLP14T93648	4/5/2013	1/1/2014	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ Excluded PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			8103037P045	4/5/2013	1/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Property Protection Cov. \$
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE			ZUP14T9365A13PB	4/5/2013	1/1/2014	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
	DED <input checked="" type="checkbox"/> RETENTION \$ 10,000						
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			N/A			WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CANCELLATION

The Charter County of Wayne Wayne County Community Development Divisi Devel Growth Engine (EDGE)-Block Grant Pr Guardian Building 500 Griswold Detroit, MI 48226	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE James Daly/BAYERC

OFFICIALS

William R. Griggs
CITY CLERK

Andrew A. Swiecki
CITY TREASURER

Colleen A. Keehn
CITY ASSESSOR



JOSEPH R. PETERSON
MAYOR

COUNCIL

Todd M. Browning
James R. DeSana
Sheri M. Sutherby-Fricke
Daniel E. Galeski
Leonard T. Sabuda
Lawrence S. Stec

Back up
for item #
14
Antenna site
T-mobile

Site Number: DE05715D/Wyandotte Tower
Market: DE

SECOND AMENDMENT TO ANTENNA SITE LICENSE AGREEMENT

THIS SECOND AMENDMENT TO ANTENNA SITE LICENSE AGREEMENT ("Amendment") dated as of the latter of the signature dates below, is made and entered into by and between the City of Wyandotte, a Michigan Municipal Corporation ("Licensor"), and T-Mobile Central LLC, a Delaware limited liability company, as successor in interest to Omnipoint Holdings, Inc., a Delaware corporation ("Licensee").

Recitals

The parties hereto recite, declare and agree as follows:

A. Licensor and Licensee (or as applicable, their respective predecessors in interest) entered into an Antenna Site License Agreement dated November 16, 2001 ("License Agreement") and subsequent First Amendment to the Antenna Site Lease Agreement dated July 1, 2008, with respect to Premises located at 1077 Grove Street, Wyandotte, MI 48192.

B. Licensor and Licensee desire to enter into this Amendment in order to modify and amend certain provisions of the License Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Licensor and Licensee covenant and agree as follows:

1. Effective as of the date this Amendment is executed by all parties, (a) Licensee will have the right to modify its Antenna Facilities as described and depicted on Exhibit A, which is attached hereto and by this reference incorporated herein, and Licensor hereby consents to and approves of the modifications described and depicted on Exhibit A in all respects.

2. Commencing on the start of construction, the Monthly License Fee that the Licensee pays Licensor will be increased by Three Hundred Fifty Dollars (\$350.00). Rent shall be Two Thousand and 00/100 (\$2,997.00) per month. In addition, Licensor shall grant Licensee four (4) Renewal Terms of five (5) years each that are automatically renewed, unless either party gives the other a 180 day written notice during the initial term or any Renewal Term stating that the Agreement will not extend further beyond the then 5 year term. On a date which is (1) year following the Commencement Date and each year thereafter during the Term and Renewal Terms the monthly License Fee shall be increased annually in the amount equal to four percent (4%) per year.

3. Licensee's notice addresses in the License Agreement are deleted in their entirety and replaced with the following:

If to Licensee:

T-Mobile Central LLC
12920 SE 38th Street
Bellevue, WA 98006
Attn: Lease Compliance
Site # DE05715D/Wyandotte Tower

4. The terms and conditions of the License Agreement are incorporated herein by this reference, and capitalized terms used in this Amendment shall have the same meanings such terms are given in the License Agreement. Except as specifically set forth herein, this Amendment shall in no way modify, alter or amend the remaining terms of the License Agreement, all of which are ratified by the parties and shall remain in full force and effect. To the extent there is any conflict between the terms and conditions of the License Agreement and this Amendment, the terms and conditions of this Amendment will govern and control.

5. Licensor represents and warrants to Licensee that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Amendment, or if any such third party consent or approval is required, Licensor has obtained any and all such consents or approvals.

IN WITNESS WHEREOF, the parties have executed this Amendment effective as of the date of execution by the last party to sign.

**City of Wyandotte, a
Michigan municipal corporation**

**T-Mobile Central, LLC,
a Delaware limited Liability Company**

By: _____
Name: _____
Title: _____
Date: _____

By: _____
Name: _____
Title: _____
Date: _____

Managing Agent:

**NEW PAR, a Delaware Partnership dba Verizon Wireless
By: Verizon Wireless (VAW) LLC, its General Partner**

By: _____
Name: Lynn Ransey
Title: Area Vice President - Network
Date: _____

EXHIBIT A

Antenna Facilities

[See Attached]



SITE MODERNIZATION

SITE NAME
WYANDOTTE TOWER
 SITE NUMBER
DE05715D
 SITE ADDRESS
**1077 GROVE STREET,
 WYANDOTTE, MI 48192**

DRAWING CONVENTIONS:
 FROM THE DETROIT METRO AIRPORT HEAD EAST 800 FEET TO THE COMMERCIAL
 TRAIL, THEN SOUTH 100 FEET TO THE DETROIT METRO AIRPORT, THEN
 EAST 100 FEET TO THE AIRPORT, AND THEN EAST 100 FEET TO THE
 NORTH AND THEN EAST 100 FEET TO THE TOWER SITE. THE SITE IS
 ON CORNER OF GROSS RD.



SCOPE OF WORK
 REMOVE (6) EXISTING ANTENNAS, ADD (6) NEW ANTENNAS TO EXISTING
 TOWER. REMOVE & REPLACE (1) EQUIPMENT CABINET AT GRADE.
SITE DATA
 EXISTING SELF-SUPPORT TOWER WITH EXISTING RELATED
 UNMANNED COMMUNICATION EQUIPMENT AT BASE OF TOWER.

TOWER INFORMATION
 ADDRESS: 1077 GROVE STREET, WYANDOTTE, MI 48192
 LATITUDE: 42° 11' 31.0" N
 LONGITUDE: 83° 09' 57.2" W
 T-MOBILE RAD CENTER HEIGHT: 165' AGL

SURFACE FOOTAGE
 T-MOBILE LEASE AREA: 150 SQ FT

TOWER OWNERS
 T-MOBILE CENTRAL LLC
 12920 SE 39TH STREET
 BELLEVUE, WA 98006

APPLICANT
 T-MOBILE CENTRAL LLC
 12170 MERRIMAN ROAD
 LIVONIA, MI 48150
 PHONE: (734) 367-7200
 FAX: (734) 367-7242

ENGINEER
 LANDTECH PROFESSIONAL SURVEYING
 AND ENGINEERING
 P.O. BOX 193
 1275 MCGREGOR WAY
 GRAWIN, MI 49637
 PHONE: (231) 943-0950

OWNER/CLIENT

UNOCCUPIED

PANEL NUMBER (TAX ID)
 NOT PROVIDED

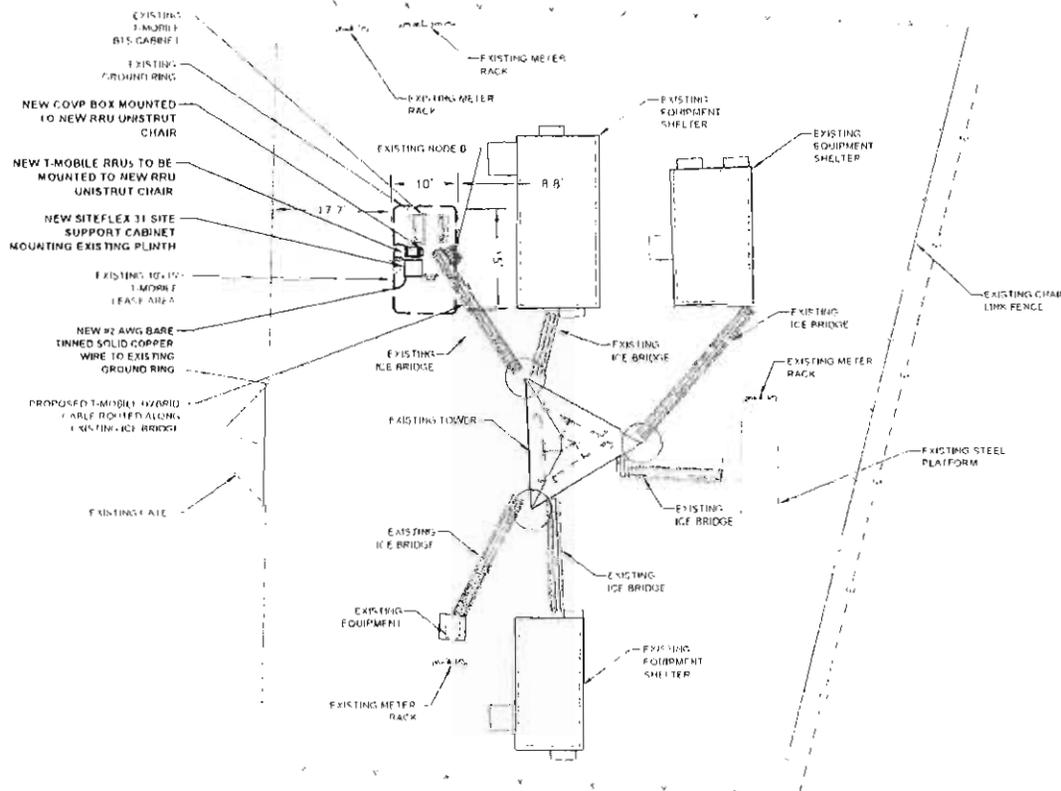


12170 MERRIMAN ROAD
 LIVONIA, MICHIGAN 48150
 Phone: 734 367 7200
 Fax: 734 367 7242

CONTACT: PAUL SCHULTZ
 (734) 905-0084

PROJECT NUMBER	12323294
DATE	10/11/11
BY	LANDTECH
CHECKED	LANDTECH
APPROVED	LANDTECH

NOTE: CM TO VERIFY EQUIPMENT LAYOUT PRIOR TO INSTALLATION



EQUIPMENT LAYOUT - PROPOSED



NOTE: NO NEW CONDUITS PROPOSED. USE EXISTING CONDUITS



MODERNIZATION

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11X17 SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.

LANDTECH
 Professional Surveying & Engineering
 AL, AR, AZ, CO, FL, GA, IL, IA, IN, KS, KY, MI, MN, MO, NE,
 NC, ND, NJ, NY, OH, OK, PA, SC, SD, TN, TX, VA, WV, WI,
 WY. 24 HOURS PHONE: 800 368 8777 FAX: 231 943 0950
 www.landtechsurveying.com

CITY OF WYANDOTTE,
 PART OF SECTION 32,
 TOWN 3 SOUTH, RANGE 11 EAST,
 WAYNE COUNTY,
 STATE OF MICHIGAN

SITE # DE05715D

SITE NAME
 WYANDOTTE TOWER

SITE ADDRESS
 1077 GROVE STREET
 WYANDOTTE, MI 48192

Sheet Title
SITE PLAN

Sheet Number
C-1



Structural Analysis Report

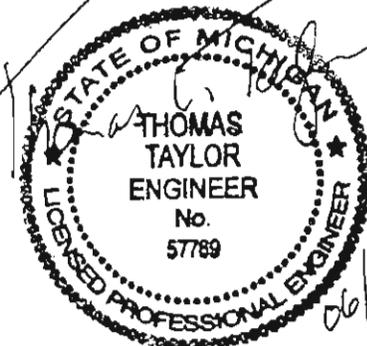
Prepared for:

Landtech
1275 McGregor Way PO Box 193
Grawn, MI 49637

ATTN: Mr. Matthew Mokanyk

Structure : 182 ft PIROD Self Supported Tower
Proposed Carrier : T-Mobile
Site ID : 123
T-Mobile Site ID : DE05715D
Site Location : Southgate, Wyandotte, MI
County : Wayne
Date : June 28, 2012
Usage : 63.0% Legs, 83.0% Diagonals, 24.0%
Horizontals.

Semaan Engineering Solutions, LLC
1079 N 205th Street, Ekhorn, NE 68022
Phone 402-289-1888





Structural Analysis Report

Prepared for:

Landtech
1275 McGregor Way PO Box 193
Grawn, MI 49637

ATTN: Mr. Matthew Mokanyk

Structure : 182 ft PIROD Self Supported Tower
Proposed Carrier : T-Mobile
Site ID : 123
T-Mobile Site ID : DE05715D
Site Location : Southgate. Wyandotte, MI
County : Wayne
Date : June 28, 2012
Usage : 63.0% Legs, 83.0% Diagonals, 24.0%
Horizontal.

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 182 ft PIROD Self Supported Tower located at DET1026, Southgate, Wyandotte, MI, Wayne County (site # 123). The tower was originally designed and manufactured by PIROD (Drawing # 201420-B dated January 14, 1997).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. The analysis was performed in conformance with **ANSI/TIA-222 Rev G and local building codes for a basic wind speed of 90 mph no ice and 40 mph with 3/4" radial ice (3-second gust), Structure Classification II, Exposure C.** This is in conformance with the IBC 2009; Section 1609.1.1, Exception (5) and Section 3108.

Basic Wind Speed: 90.0 mph
 Radial Ice: 40 mph w/ 0.75" ice
 Code: ANSI/TIA-222 Rev G

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
182.0	1	TA-2350-DAB-H	15' x 2.5' rotatable platform	(1) 1-1/4"	
	11	DB809		(11) 1-1/4"	
175.0	2	HB-X-AW-23-33-0TM-RET	(3) Sector frames	(12) 7/8"	Metro PCS
	3	HB-X-AW-19-33-0TM-RET			
	1	HB-X-AW-19-65-0TM-RET			
155.0	4	FV90-13-05	(3) A-Frame	(4) 7/8"	
	8	FV65-14-00 AL2		(8) 7/8"	
135.0	12	API99016	(3) A-Frame	(12) 7/8"	Sprint
120.0	6	ADA-85458580CF	(3) A-Frame	(12) 7/8"	Verizon
	6	Allgon 7129.16			
100.0	3	DB810	(3) A-Frame	(3) 7/8"	AT&T
	12	API7-1900/090D		(12) 7/8"	

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
162.0	3	TMBX-6517-A1M	(3) Sector frames	(12) 7/8" (1) 1-1/4" Hybrid Cable	T-Mobile
	6	TMBXX-6517-A2M			
	3	ETW200VS12UB			
	3	FRIG Modules			
	3	FRIA Modules			
	2	FXFB Modules			

The proposed transmission lines may be placed anywhere on the tower. No line shielding was considered.

Results

The existing Self Supported Tower is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 63.0% Legs, 83.0% Diagonals, and 24.0% Horizontals.

Leg Forces	Original Design Reactions	Current Analysis Reactions	% Of Design
Uplift (Kips)	403.20	369.37	67.9*
Axial (Kips)	445.90	418.23	69.5*

(*) The percentage is factored by 1.35 per TIA-EIA Rev G.
The analysis reactions are less than the design reactions therefore no foundation modifications are required.

Conclusion

Based on the analysis results, the existing structure meets the requirements per the ANSI/TIA-222 Rev G standards for a basic wind speed of 90 mph no ice and 40 mph with 3/4" radial ice.

If you have any questions or require additional information, please call 402-289-1888.

Standard Conditions

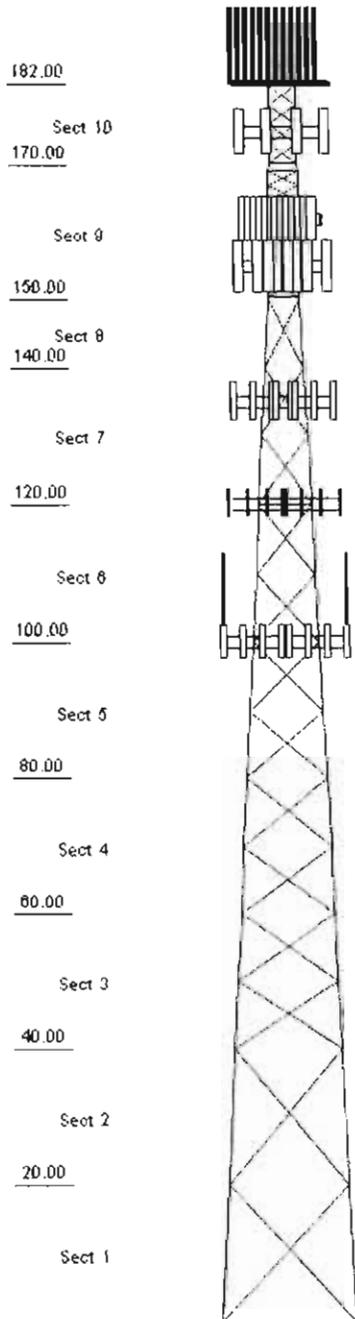
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of Semaan Engineering Solutions, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Semaan Engineering Solutions and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Semaan Engineering Solutions is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Copyright Semaan Engineering Solutions, Inc.
 Loads: 90 mph no ice
 40 mph w/ 3/4" radial ice

Uplift 369.37 k Moment 6,858.71 ft-k
 Vert 418.23 k Total Down 86.73 k
 Horiz 42.30 k Total Shear 84.88 k

Job Information			
Tower : 123	Location : DET1026, Southgate, Wyandotte, MI		
Code : ANSI/TIA-222 Rev G	Shape : Triangle	Base Width : 20.00 ft	
Client : Landtech	Top Width : 4.50 ft		

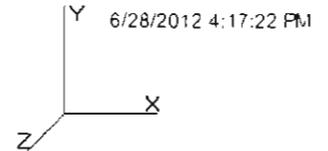
Sections Properties				
Section	Leg Members		Diagonal Members	Horizontal Members
1	18B 60 ksi	18"BD 2.75"	DAE 36 ksi 3.6X3.6X0.3125	
2	18B 50 ksi	18"BD 2.6"	DAE 36 ksi 3.6X3.6X0.3125	
3 - 4	12B 50 ksi	12"BD 2.25"	SAE 36 ksi 3.6X3.6X0.3125	
5	12B 50 ksi	12"BD 2"	SAE 36 ksi 3.6X3.6X0.3125	
6	12B 50 ksi	12"BD 1.75"	SAE 36 ksi 3X3X0.3125	SAE 36 ksi 3X3X0.3125
7	12B 50 ksi	12"BD 1.5"	SAE 36 ksi 3X3X0.1875	
8	12B 50 ksi	12"BD 1.25"	SAE 36 ksi 2.5X2.5X0.1875	
9	SOL 50 ksi	2" SOLID	SOL 50 ksi 1" SOLID	SOL 50 ksi 1" SOLID
10	SOL 60 ksi	1 3/4" SOLID	SOL 50 ksi 3/4" SOLID	SOL 50 ksi 1" SOLID

Discrete Appurtenance			
Elev (ft)	Type	Qty	Description
182.00	Whip	1	TA-2350-DAB-H
182.00	Whip	11	DB809
182.00	Platform	1	15' x 2.5' rotatable platform
182.00	Lightning Rod	1	5/8" lightning rod w/extension
175.00	Panel	2	HB-X-AW-23-33-OTM-RET
175.00	Panel	3	HB-X-AW-19-33-OTM-RET
176.00	Panel	1	HB-X-AW-19-65-OTM-RET
175.00	Mounting Frame	3	Sector frames
162.00	Panel	3	TMBX-6517-A1M
152.00	Panel	3	FRIA Modules
162.00	Panel	2	FXFB Modules
162.00	Panel	3	FRIG Modules
162.00	Panel	6	TMBXX-6517-A2M
162.00	Panel	3	ETW200VS12UB
152.00	Mounting Frame	3	Sector frames
156.00	Mounting Frame	3	A-Frame
165.00	Panel	4	FV90-13-05
155.00	Panel	8	FV65-14-00 AL2
135.00	Mounting Frame	3	A-Frame
135.00	Panel	12	AP199016
120.00	Mounting Frame	3	A-Frame
120.00	Panel	6	ADA-85468580CF
120.00	Panel	6	Allaon 7129.16
100.00	Mounting Frame	3	A-Frame
100.00	Whip	3	DB810
100.00	Panel	12	AP17-1900/090D

Linear Appurtenance			
Elev (ft)	From	To	Qty Description
0.000	182.00	1	1 1/4" Coax
0.000	182.00	11	1 1/4" Coax
0.000	175.00	12	7/8" Coax
0.000	162.00	12	7/8" Coax
0.000	162.00	12	1-1/4" Hybrid Cable
0.000	155.00	4	7/8" Coax
0.000	155.00	8	7/8" Coax
0.000	135.00	12	7/8" Coax
0.000	120.00	12	7/8" Coax
0.000	100.00	3	7/8" Coax
0.000	100.00	12	7/8" Coax

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Section Forces

LoadCase 1.2D + 1.6W Normal

90.00 mph Normal to Face with No Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)					
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	1.00	1.00	0.00	4.12	24.15	0.00	864.2	0.0	400.05	594.16	994.20
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	1.00	1.00	0.00	8.25	87.07	0.00	2,310.9	0.0	767.93	2,099.6	2,867.60
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	1.00	1.00	0.00	8.30	61.30	0.00	1,538.7	0.0	694.81	1,447.9	2,142.72
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	1.00	1.00	0.00	19.88	139.25	0.00	3,770.5	0.0	1,658.30	3,214.3	4,872.66
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	1.00	1.00	0.00	23.65	167.00	0.00	5,117.5	0.0	1,947.93	3,721.7	5,669.65
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	1.00	1.00	0.00	26.81	194.75	0.00	6,260.2	0.0	2,146.09	4,160.6	6,306.71
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	1.00	1.00	0.00	29.13	194.75	0.00	7,068.3	0.0	2,249.73	3,946.2	6,195.94
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	1.00	1.00	0.00	30.85	194.75	0.00	7,236.9	0.0	2,262.12	3,676.3	5,938.46
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	1.00	1.00	0.00	25.88	194.75	0.00	9,979.0	0.0	1,763.37	3,301.5	5,064.87
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	1.00	1.00	0.00	27.23	194.75	0.00	10,860.4	0.0	1,619.04	2,856.9	4,476.02
														55,006.6	0.0			44,528.85

LoadCase 1.2D + 1.6W 60 deg

90.00 mph 60 deg with No Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)					
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	0.80	1.00	0.00	4.12	24.15	0.00	864.2	0.0	400.05	594.16	994.20
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.80	1.00	0.00	8.25	87.07	0.00	2,310.9	0.0	767.93	2,099.6	2,867.60
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.80	1.00	0.00	7.35	61.30	0.00	1,538.7	0.0	615.16	1,447.9	2,063.08
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.80	1.00	0.00	17.43	139.25	0.00	3,770.5	0.0	1,454.45	3,214.3	4,668.82
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.80	1.00	0.00	20.56	167.00	0.00	5,117.5	0.0	1,693.28	3,721.7	5,415.00
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.80	1.00	0.00	23.34	194.75	0.00	6,260.2	0.0	1,868.33	4,160.6	6,028.95
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.80	1.00	0.00	25.30	194.75	0.00	7,068.3	0.0	1,954.05	3,946.2	5,900.26
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.80	1.00	0.00	26.65	194.75	0.00	7,236.9	0.0	1,953.63	3,676.3	5,629.98
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.80	1.00	0.00	22.81	194.75	0.00	9,979.0	0.0	1,554.63	3,301.5	4,856.13
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.80	1.00	0.00	24.01	194.75	0.00	10,860.4	0.0	1,427.64	2,856.9	4,284.62
														55,006.6	0.0			42,708.64

LoadCase 1.2D + 1.6W 90 deg

90.00 mph 90 deg with No Ice

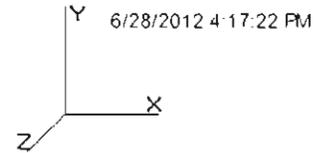
Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)					
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	0.85	1.00	0.00	4.12	24.15	0.00	864.2	0.0	400.05	594.16	994.20

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Section Forces

9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.85	1.00	0.00	8.25	87.07	0.00	2,310.9	0.0	767.93	2,099.6	2,867.60
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.85	1.00	0.00	7.59	61.30	0.00	1,538.7	0.0	635.07	1,447.9	2,082.99
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.85	1.00	0.00	18.04	139.25	0.00	3,770.5	0.0	1,505.41	3,214.3	4,719.78
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.85	1.00	0.00	21.34	167.00	0.00	5,117.5	0.0	1,756.94	3,721.7	5,478.66
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.85	1.00	0.00	24.21	194.75	0.00	6,260.2	0.0	1,937.77	4,160.6	6,098.39
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.85	1.00	0.00	26.26	194.75	0.00	7,068.3	0.0	2,027.97	3,946.2	5,974.18
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.85	1.00	0.00	27.70	194.75	0.00	7,236.9	0.0	2,030.75	3,676.3	5,707.10
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.85	1.00	0.00	23.58	194.75	0.00	9,979.0	0.0	1,606.82	3,301.5	4,908.32
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.85	1.00	0.00	24.82	194.75	0.00	10,860.4	0.0	1,475.49	2,856.9	4,332.47
														55,006.6	0.0	43,163.69		

LoadCase 0.9D + 1.6W Normal

90.00 mph Normal to Face with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Seq	Wind Sect	Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Ice Weight (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	1.00	1.00	0.00	4.12	24.15	0.00	648.2	0.0	400.05	594.16	994.20	
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	1.00	1.00	0.00	8.25	87.07	0.00	1,733.2	0.0	767.93	2,099.6	2,867.60	
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	1.00	1.00	0.00	8.30	61.30	0.00	1,154.1	0.0	694.81	1,447.9	2,142.72	
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	1.00	1.00	0.00	19.88	139.25	0.00	2,827.9	0.0	1,658.30	3,214.3	4,872.66	
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	1.00	1.00	0.00	23.65	167.00	0.00	3,838.1	0.0	1,947.93	3,721.7	5,669.65	
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	1.00	1.00	0.00	26.81	194.75	0.00	4,695.2	0.0	2,146.09	4,160.6	6,306.71	
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	1.00	1.00	0.00	29.13	194.75	0.00	5,301.2	0.0	2,249.73	3,946.2	6,195.94	
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	1.00	1.00	0.00	30.85	194.75	0.00	5,427.6	0.0	2,262.12	3,676.3	5,938.46	
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	1.00	1.00	0.00	25.88	194.75	0.00	7,484.2	0.0	1,763.37	3,301.5	5,064.87	
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	1.00	1.00	0.00	27.23	194.75	0.00	8,145.3	0.0	1,619.04	2,856.9	4,476.02	
														41,254.9	0.0	44,528.85			

LoadCase 0.9D + 1.6W 60 deg

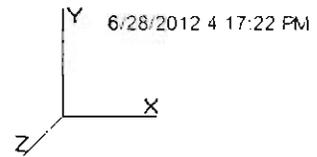
90.00 mph 60 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Seq	Wind Sect	Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Ice Weight (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	0.80	1.00	0.00	4.12	24.15	0.00	648.2	0.0	400.05	594.16	994.20	
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.80	1.00	0.00	8.25	87.07	0.00	1,733.2	0.0	767.93	2,099.6	2,867.60	
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.80	1.00	0.00	7.35	61.30	0.00	1,154.1	0.0	615.16	1,447.9	2,063.08	
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.80	1.00	0.00	17.43	139.25	0.00	2,827.9	0.0	1,454.45	3,214.3	4,668.82	
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.80	1.00	0.00	20.56	167.00	0.00	3,838.1	0.0	1,693.28	3,721.7	5,415.00	
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.80	1.00	0.00	23.34	194.75	0.00	4,695.2	0.0	1,868.33	4,160.6	6,028.95	
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.80	1.00	0.00	25.30	194.75	0.00	5,301.2	0.0	1,954.05	3,946.2	5,900.26	
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.80	1.00	0.00	26.65	194.75	0.00	5,427.6	0.0	1,953.63	3,676.3	5,629.98	
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.80	1.00	0.00	22.81	194.75	0.00	7,484.2	0.0	1,554.63	3,301.5	4,856.13	
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.80	1.00	0.00	24.01	194.75	0.00	8,145.3	0.0	1,427.64	2,856.9	4,284.62	
														41,254.9	0.0	42,708.64			

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1



Section Forces

LoadCase 0.9D + 1.6W 90 deg

90.00 mph 90 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total			Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice			Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Ice Round Area (sqft)							Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)				
10	176.0	25.13	0.00	7.27	0.00	0.13	2.84	0.85	1.00	0.00	4.12	24.15	0.00	648.2	0.0	400.05	594.16	994.20
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.85	1.00	0.00	8.25	87.07	0.00	1,733.2	0.0	767.93	2,099.6	2,867.60
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.85	1.00	0.00	7.59	61.30	0.00	1,154.1	0.0	635.07	1,447.9	2,082.99
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.85	1.00	0.00	18.04	139.25	0.00	2,827.9	0.0	1,505.41	3,214.3	4,719.78
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.85	1.00	0.00	21.34	167.00	0.00	3,838.1	0.0	1,756.94	3,721.7	5,478.66
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.85	1.00	0.00	24.21	194.75	0.00	4,695.2	0.0	1,937.77	4,160.6	6,098.39
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.85	1.00	0.00	26.26	194.75	0.00	5,301.2	0.0	2,027.97	3,946.2	5,974.18
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.85	1.00	0.00	27.70	194.75	0.00	5,427.6	0.0	2,030.75	3,676.3	5,707.10
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.85	1.00	0.00	23.58	194.75	0.00	7,484.2	0.0	1,606.82	3,301.5	4,908.32
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.85	1.00	0.00	24.82	194.75	0.00	8,145.3	0.0	1,475.49	2,856.9	4,332.47
														41,254.9	0.0			43,163.69

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

40.00 mph Normal with 0.75 in Radial Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total			Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice			Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Ice Round Area (sqft)							Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)				
10	176.0	4.96	0.00	30.88	23.60	0.52	1.87	1.00	1.00	1.77	21.50	24.15	60.29	3,488.8	2,624.6	170.05	204.89	374.94
9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	1.00	1.00	1.76	37.45	87.07	242.40	9,834.6	7,523.7	290.84	788.88	904.72
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	1.00	1.00	1.74	17.67	61.30	173.93	6,353.8	4,815.1	147.10	680.84	525.62
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	1.00	1.00	1.72	38.64	139.25	395.70	14,656.6	10,886.	329.96	1,636.2	1,282.84
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	1.00	1.00	1.69	44.31	167.00	473.74	17,924.2	12,806.	378.64	1,988.6	1,565.15
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	1.00	1.00	1.66	46.77	194.75	547.24	20,645.8	14,385.	401.38	2,339.1	1,819.57
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	1.00	1.00	1.62	49.73	194.75	533.66	21,178.3	14,109.	417.47	2,256.1	2,022.49
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	1.00	1.00	1.56	51.76	194.75	516.00	20,861.8	13,624.	417.02	2,117.0	2,154.87
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	1.00	1.00	1.49	43.38	194.75	490.30	23,032.0	13,053.	335.96	1,959.4	2,185.58
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	1.00	1.00	1.33	43.95	194.75	439.29	22,148.7	11,288.	301.07	1,601.3	1,902.37
														160,124.6	105,118.			14,738.16

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

40.00 mph 60 deg with 0.75 in Radial Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00

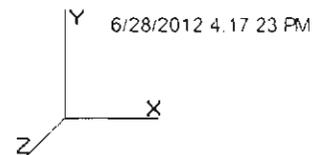
Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total			Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice			Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Ice Round Area (sqft)							Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)				
10	176.0	4.96	0.00	30.88	23.60	0.52	1.87	0.80	1.00	1.77	21.50	24.15	60.29	3,488.8	2,624.6	170.05	204.89	374.94

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Section Forces

9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	0.80	1.00	1.76	37.45	87.07	242.40	9,834.6	7,523.7	290.84	788.88	904.72	**
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	0.80	1.00	1.74	16.72	61.30	173.93	6,353.8	4,815.1	139.18	680.84	525.62	**
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	0.80	1.00	1.72	36.19	139.25	395.70	14,656.6	10,886.	309.09	1,636.2	1,282.84	**
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	0.80	1.00	1.69	41.22	167.00	473.74	17,924.2	12,806.	352.21	1,988.6	1,565.15	**
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	0.80	1.00	1.66	43.30	194.75	547.24	20,645.8	14,385.	371.60	2,339.1	1,819.57	**
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	0.80	1.00	1.62	45.90	194.75	533.66	21,178.3	14,109.	385.33	2,256.1	2,022.49	**
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	0.80	1.00	1.56	47.55	194.75	516.00	20,861.8	13,624.	383.12	2,117.0	2,154.87	**
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	0.80	1.00	1.49	40.32	194.75	490.30	23,032.0	13,053.	312.24	1,959.4	2,185.58	**
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	0.80	1.00	1.33	40.73	194.75	439.29	22,148.7	11,288.	279.02	1,601.3	1,880.32	**
																160,124.6	105,118.	14,716.11	

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

40.00 mph 90 deg with 0.75 in Radial Ice

Gust Response Factor : 0.85

Dead Load Factor : 1.20

Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

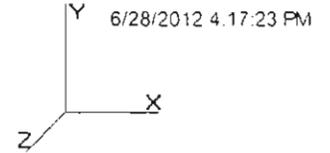
Ice Importance Factor : 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice		Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)	Total Weight (lb)								Total Ice (lb)					
10	176.0	4.96	0.00	30.88	23.60	0.52	1.87	0.85	1.00	1.77	21.50	24.15	60.29	3,488.8	2,624.6	170.05	204.89	374.94	
9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	0.85	1.00	1.76	37.45	87.07	242.40	9,834.6	7,523.7	290.84	788.88	904.72	**
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	0.85	1.00	1.74	16.96	61.30	173.93	6,353.8	4,815.1	141.16	680.84	525.62	**
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	0.85	1.00	1.72	36.80	139.25	395.70	14,656.6	10,886.	314.31	1,636.2	1,282.84	**
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	0.85	1.00	1.69	41.99	167.00	473.74	17,924.2	12,806.	358.82	1,988.6	1,565.15	**
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	0.85	1.00	1.66	44.17	194.75	547.24	20,645.8	14,385.	379.05	2,339.1	1,819.57	**
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	0.85	1.00	1.62	46.85	194.75	533.66	21,178.3	14,109.	393.37	2,256.1	2,022.49	**
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	0.85	1.00	1.56	48.61	194.75	516.00	20,861.8	13,624.	391.59	2,117.0	2,154.87	**
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	0.85	1.00	1.49	41.09	194.75	490.30	23,032.0	13,053.	318.17	1,959.4	2,185.58	**
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	0.85	1.00	1.33	41.54	194.75	439.29	22,148.7	11,288.	284.53	1,601.3	1,885.84	**
																160,124.6	105,118.	14,721.62	

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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Tower Loading

Discrete Appurtenance Properties

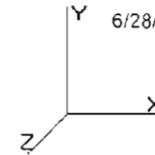
Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (ft)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
182.0	TA-2350-DAB-H	1	49.00	4.270	124.11	2.681	5.330	3.000	3.000	1.00	1.00	2.665
182.0	DB809	11	30.00	2.825	167.41	6.753	11.30	2.500	2.500	1.00	1.00	5.650
182.0	15' x 2.5' rotatable platform	1	1560.00	41.900	3219.84	86.481	0.000	0.000	0.000	1.00	1.00	3.000
182.0	5/8" lightning rod w/extension	1	108.00	5.000	222.91	10.320	0.000	0.000	0.000	1.00	1.00	2.750
175.0	HB-X-AW-23-33-0TM-RET	2	44.10	4.870	294.00	9.958	6.990	10.08	10.08	1.00	1.00	0.000
175.0	HB-X-AW-19-33-0TM-RET	3	30.87	2.688	183.00	5.329	4.000	10.08	10.08	1.00	1.00	0.000
175.0	HB-X-AW-19-65-0TM RET	1	28.66	2.798	171.55	6.062	6.000	6.200	6.200	1.00	1.00	0.000
175.0	Sector frames	3	500.00	15.000	1032.00	34.861	0.000	0.000	0.000	0.80	0.75	0.000
162.0	TMBX-6517-A1M	3	15.40	6.024	149.87	7.410	6.910	6.600	3.300	0.80	0.75	0.000
162.0	FRIA Modules	3	55.00	4.064	131.90	5.492	1.833	19.00	5.000	0.80	0.63	0.000
162.0	FXFB Modules	2	55.10	4.160	133.80	11.292	1.610	22.10	5.200	1.00	1.00	0.000
162.0	FRIG Modules	3	26.00	2.050	108.20	15.013	1.570	11.21	7.000	0.80	0.79	0.000
162.0	TMBXX-6517-A2M	6	44.40	9.591	266.55	11.011	6.908	11.90	6.300	0.80	0.77	0.000
162.0	ETW200VS12UB	3	11.00	0.470	23.29	0.997	0.525	7.700	3.000	0.80	0.69	0.000
162.0	Sector frames	3	500.00	15.000	1026.95	34.676	6.000	0.000	0.000	0.80	0.75	0.000
155.0	A-Frame	3	240.00	30.700	492.94	63.055	8.000	0.000	0.000	0.80	0.67	0.000
155.0	FV90-13-05	4	34.00	11.467	298.62	13.133	8.000	12.00	7.000	0.80	1.00	0.000
155.0	FV65-14-00 AL2	8	25.30	8.400	228.41	9.438	6.000	12.00	7.000	0.80	0.79	0.000
135.0	A-Frame	3	240.00	30.700	487.74	62.390	8.000	0.000	0.000	0.80	0.67	0.000
135.0	AP199016	12	14.00	5.210	128.00	7.078	6.070	7.790	1.970	0.80	0.63	0.000
120.0	A-Frame	3	240.00	30.700	483.64	61.865	8.000	0.000	0.000	0.80	0.67	0.000
120.0	ADA-85458580CF	6	12.50	5.160	124.30	5.636	3.950	11.20	4.500	0.80	0.70	0.000
120.0	Allgon 7129.16	6	17.00	6.300	201.87	6.968	4.330	13.00	11.40	0.80	0.94	0.000
100.0	A-Frame	3	240.00	30.700	478.80	61.246	8.000	0.000	0.000	0.80	0.67	0.000
100.0	DB810	3	35.00	4.580	243.95	9.023	13.17	3.000	0.000	1.00	1.00	6.585
100.0	AP17-1900/090D	12	12.00	4.120	97.99	5.175	5.340	6.100	2.250	0.80	0.67	0.000
Totals		109	9767.67		30252.26					Number of Appurtenances : 26		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	182.0	1 1/4" Coax	11	1.55	0.66	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	182.0	1 1/4" Coax	1	1.55	0.66	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	175.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	162.0	1-1/4" Hybrid Cable	12	1.25	0.95	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	162.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	7/8" Coax	8	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	7/8" Coax	4	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	135.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	120.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	100.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	100.0	7/8" Coax	3	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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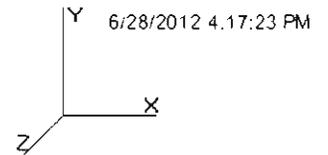
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Force/Stress Summary

Section: 1 U20-18"BD-2.75"L Bot Elev (ft): 0.00 Height (ft): 20.000															
		Force	Len	Bracing %			Fy	phi	Shear		Bear				
Max Compression Member		(kip)	(ft)	X	Y	Z	(ksi)	Pn	Num	Num	phiRnv	phiRn	Use	Controls	
	Load Case								Bolts	Holes	(kip)	(kip)	%		
LEG	18B - 18"BD 2.75"	-395.62	20.03	100	100	100	32.6	50.0	742.04	0	0	0.00	0.00	53	Member X
HORIZ		0.00	0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3.5X3.5X0.3125	-15.12	27.59	50	50	25	158.4	36.0	37.62	4	2	127.24	139.20	40	Member Y
Max Tension Member		Force	Fy	Fu	phi	Pn	Num	Num	Shear	Bear	Use				
	Load Case	(kip)	(ksi)	(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls				
LEG	18B - 18"BD 2.75"	347.03	50	65	801.90	0	0	0.00	0.00	43	Member				
HORIZ		0.00	0	0	0.00	0	0	0.00	0.00	0					
DIAG	DAE - 3.5X3.5X0.3125	14.20	36	58	113.43	4	2	0.00	139.20	12	Member				
Section: 2 U18-18"BD-2.5"L Bot Elev (ft): 20.00 Height (ft): 20.000															
Max Compression Member		Force	Len	Bracing %			Fy	phi	Shear		Bear				
	Load Case	(kip)	(ft)	X	Y	Z	(ksi)	Pn	Num	Num	phiRnv	phiRn	Use	Controls	
LEG	18B - 18"BD 2.5"	-355.02	20.03	100	100	100	32.6	50.0	612.89	0	0	0.00	0.00	57	Member X
HORIZ		0.00	0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3.5X3.5X0.3125	-15.57	26.25	50	50	25	150.7	36.0	41.55	4	2	127.24	139.20	37	Member Y
Max Tension Member		Force	Fy	Fu	phi	Pn	Num	Num	Shear	Bear	Use				
	Load Case	(kip)	(ksi)	(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls				
LEG	18B - 18"BD 2.5"	311.71	50	65	662.40	0	0	0.00	0.00	47	Member				
HORIZ		0.00	0	0	0.00	0	0	0.00	0.00	0					
DIAG	DAE - 3.5X3.5X0.3125	14.45	36	58	113.43	4	2	0.00	139.20	12	Member				
Section: 3 U16-12B-2.25" Bot Elev (ft): 40.00 Height (ft): 20.000															
Max Compression Member		Force	Len	Bracing %			Fy	phi	Shear		Bear				
	Load Case	(kip)	(ft)	X	Y	Z	(ksi)	Pn	Num	Num	phiRnv	phiRn	Use	Controls	
LEG	12B - 12"BD 2.25"	-324.39	10.02	100	100	100	24.4	50.0	514.03	0	0	0.00	0.00	63	Member X
HORIZ		0.00	0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 3.5X3.5X0.3125	-10.54	18.44	50	50	50	160.4	36.0	18.35	1	1	49.70	43.50	57	Member Z
Max Tension Member		Force	Fy	Fu	phi	Pn	Num	Num	Shear	Bear	Use				
	Load Case	(kip)	(ksi)	(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls				
LEG	12B - 12"BD 2.25"	290.61	50	65	536.85	0	0	0.00	0.00	54	Member				
HORIZ		0.00	0	0	0.00	0	0	0.00	0.00	0					
DIAG	SAE - 3.5X3.5X0.3125	11.04	36	58	54.17	1	1	0.00	43.50	20	Member				

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

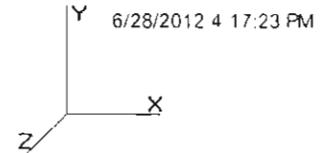
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Force/Stress Summary

Section: 4		U14-2.25"		Bot Elev (ft): 60.00				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 2.25"	-277.08	1.2D + 1.6W	10.02	100	100	100	24.4	50.0	514.03	0	0	0.00	0.00	53 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.3125	-10.85	1.2D + 1.6W 90	16.80	50	50	50	146.1	36.0	22.12	1	1	49.70	43.50	49 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 2.25"	248.83	0.9D + 1.6W 60	50	65	536.85	0	0	0.00	0.00	46	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 3.5X3.5X0.3125	10.60	1.2D + 1.6W 90	36	58	54.17	1	1	0.00	43.50	19	Member			
Section: 5		U12-2"		Bot Elev (ft): 80.00				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 2"	-227.11	1.2D + 1.6W	10.02	100	100	100	24.4	50.0	405.83	0	0	0.00	0.00	55 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.3125	-10.92	1.2D + 1.6W 90	15.24	50	50	50	132.5	36.0	26.86	1	1	49.70	43.50	40 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 2"	204.08	0.9D + 1.6W 60	50	65	423.90	0	0	0.00	0.00	48	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 3.5X3.5X0.3125	10.59	1.2D + 1.6W 90	36	58	54.17	1	1	0.00	43.50	19	Member			
Section: 6		U10-1.75"		Bot Elev (ft): 100.0				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.75"	-175.06	1.2D + 1.6W	10.02	100	100	100	26.0	50.0	308.82	0	0	0.00	0.00	56 Member X
HORIZ		-3.64	0.9D + 1.6W	8.000	100	100	100	163.0	36.0	15.14	0	0	0.00	0.00	24 Member Z
DIAG	SAE - 3X3X0.3125	-9.76	1.2D + 1.6W 90	13.79	50	50	50	140.5	36.0	20.36	1	1	31.81	34.80	47 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 1.75"	155.82	1.2D + 1.6W 60	50	65	324.45	0	0	0.00	0.00	48	Member			
HORIZ		4.04	1.2D + 1.6W 60	36	58	57.67	0	0	0.00	0.00	7	Member			
DIAG	SAE - 3X3X0.3125	9.35	1.2D + 1.6W 60	36	58	46.60	1	1	0.00	34.80	20	Member			

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1



Force/Stress Summary

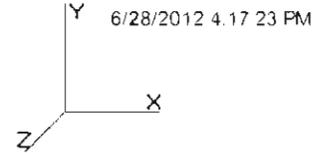
Section: 7		U08		Bot Elev (ft): 120.0				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.5"	-121.05	1.2D + 1.6W	10.02	100	100	100	30.3	50.0	222.99	0	0	0.00	0.00	54 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 3X3X0.1875	-9.29	1.2D + 1.6W	12.50	50	50	50	125.9	36.0	15.34	1	1	31.81	20.88	60 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	12B - 12"BD 1.5"	108.16	0.9D + 1.6W 60	50	65	238.50	0	0	0	0.00	0.00	45	Member		
HORIZ		0.00		0	0	0.00	0	0	0	0.00	0.00	0			
DIAG	SAE - 3X3X0.1875	8.67	1.2D + 1.6W 60	36	58	28.68	1	1	0.00	20.88	30	Member			

Section: 8		U06-10FT-1-1/4"		Bot Elev (ft): 140.0				Height (ft): 10.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.25"	-73.31	1.2D + 1.6W	10.02	100	100	100	36.4	50.0	150.33	0	0	0.00	0.00	48 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.1875	-8.91	1.2D + 1.6W	11.41	50	50	50	138.4	36.0	10.64	1	1	31.81	20.88	83 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	12B - 12"BD 1.25"	63.27	0.9D + 1.6W 60	50	65	165.60	0	0	0	0.00	0.00	38	Member		
HORIZ		0.00		0	0	0.00	0	0	0	0.00	0.00	0			
DIAG	SAE - 2.5X2.5X0.1875	8.40	1.2D + 1.6W 60	36	58	22.55	1	1	0.00	20.88	37	Member			

Section: 9		H-5.0-2"		Bot Elev (ft): 150.0				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 2" SOLID	-60.01	1.2D + 1.6W	2.37	100	100	100	56.9	50.0	111.59	0	0	0.00	0.00	53 Member X
HORIZ	SOL - 1" SOLID	-1.17	1.2D + 1.6W 60	4.516	100	100	100	173.4	50.0	5.90	0	0	0.00	0.00	19 Member X
DIAG	SOL - 1" SOLID	-5.66	1.2D + 1.6W 90	5.497	50	50	50	118.7	50.0	12.59	0	0	0.00	0.00	44 Member X
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	SOL - 2" SOLID	52.87	1.2D + 1.6W 60	50	65	141.37	0	0	0	0.00	0.00	37	Member		
HORIZ	SOL - 1" SOLID	1.25	1.2D + 1.6W	50	65	35.34	0	0	0	0.00	0.00	3	Member		
DIAG	SOL - 1" SOLID	5.61	1.2D + 1.6W 90	50	65	35.34	0	0	0	0.00	0.00	15	Member		

Site Number : 123
 Location : DET1026, Southgate, Wyandotte, MI
 Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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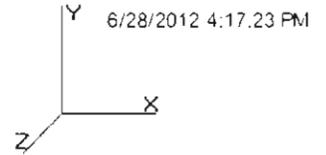


Force/Stress Summary

Section: 10		V-4.5-12FT		Bot Elev (ft): 170.0		Height (ft): 12.000										
		Force		Len	Bracing %			F'y	phi		Shear		Bear			
		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Num Bolts	Num Holes	phiRnV	phiRn	Use %	
Max Compression Member																
LEG	SOL - 1 3/4" SOLID	-15.81	1.2D + 1.6W	2.79	100	100	100	76.6	50.0	70.50	0	0	0.00	0.00	22 Member X	
HORIZ	SOL - 1" SOLID	-1.02	1.2D + 1.6W 90	4.500	100	100	100	172.8	50.0	5.94	0	0	0.00	0.00	17 Member X	
DIAG	SOL - 3/4" SOLID	-2.46	1.2D + 1.6W 90	5.296	50	50	50	152.5	50.0	4.29	0	0	0.00	0.00	57 Member X	
Max Tension Member																
		Force		Fy	Fu	phi	Pn	Num	Num	Shear	Bear	Use	Controls			
		(kip)	Load Case	(ksi)	(ksi)	(kip)	Bolts	Holes	Cap	(kip)	Cap	(kip)	%			
LEG	SOL - 1 3/4" SOLID	10.09	1.2D + 1.6W 60	50	65	108.24	0	0	0.00	0.00	9	Member				
HORIZ	SOL - 1" SOLID	1.25	1.2D + 1.6W	50	65	35.34	0	0	0.00	0.00	3	Member				
DIAG	SOL - 3/4" SOLID	3.07	1.2D + 1.6W	50	65	19.88	0	0	0.00	0.00	15	Member				

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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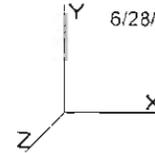
Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.0Di + 1.0Wi 90 deg	1b	-7.22	-21.11	-3.61	
	1a	-9.75	145.94	5.07	
	1	-0.97	62.42	-1.46	
1.2D + 1.0Di + 1.0Wi 60 deg	1b	-8.25	-34.10	-4.76	
	1a	-6.44	110.57	2.75	
	1	-0.84	110.78	-6.95	
1.2D + 1.0Di + 1.0Wi Normal	1b	-3.08	14.05	-2.74	
	1a	3.08	14.05	-2.74	
	1	0.00	159.15	-12.46	
0.9D + 1.6W 90 deg	1b	-29.68	-319.06	-15.90	
	1a	-31.46	352.40	16.89	
	1	-2.17	16.71	-1.00	
0.9D + 1.6W 60 deg	1b	-33.56	-369.37	-19.36	
	1a	-19.00	209.09	8.84	
	1	-1.88	210.32	-20.91	
0.9D + 1.6W Normal	1b	-15.88	-181.08	-11.38	
	1a	15.88	-181.08	-11.38	
	1	0.00	412.20	-41.91	
1.2D + 1.6W 90 deg	1b	-29.35	-313.90	-15.72	
	1a	-31.79	358.35	17.09	
	1	-2.17	22.27	-1.37	
1.2D + 1.6W 60 deg	1b	-33.24	-364.27	-19.18	
	1a	-19.33	214.88	9.03	
	1	-1.87	216.12	-21.29	
1.2D + 1.6W Normal	1b	-15.56	-175.75	-11.19	
	1a	15.56	-175.75	-11.19	
	1	0.00	418.23	-42.30	

Max Uplift:	369.37 (kip)	Moment:	6,858.71 (ft-kip)	1.2D + 1.6W Normal
Max Down:	418.23 (kip)	Total Down:	66.73 (kip)	
Max Shear:	42.30 (kip)	Total Shear:	64.68 (kip)	

Site Number: 123
 Location: DET1026, Southgate, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
40.00 mph 60 deg with 0.75 in Radial Ice	100.00	0.1023	0.0052	0.1195
	120.00	0.1504	0.0066	0.1557
	130.00	0.1786	0.0071	0.1757
	155.16	0.2676	0.0072	0.2308
	162.27	0.2964	0.0051	0.2355
	175.92	0.3552	0.0033	0.2448
	182.00	0.3801	0.0020	0.3756
40.00 mph 90 deg with 0.75 in Radial Ice	100.00	0.1019	0.0034	0.1205
	120.00	0.1500	0.0042	0.1557
	130.00	0.1785	0.0045	0.1810
	155.16	0.2669	0.0043	0.2292
	162.27	0.2955	0.0030	0.2339
	175.92	0.3538	0.0013	0.2331
	182.00	0.3769	0.0007	0.1267
40.00 mph Normal with 0.75 in Radial Ice	100.00	0.1017	0.0044	0.1226
	120.00	0.1504	0.0059	0.1575
	130.00	0.1799	0.0063	0.1853
	155.16	0.2690	0.0064	0.2334
	162.27	0.2983	0.0043	0.2405
	175.92	0.3586	0.0012	0.2752
	182.00	0.3887	0.0005	0.7125
90.00 mph 60 deg with No Ice (Reduced DL)	100.00	0.4272	0.0228	0.5224
	120.00	0.6374	0.0297	0.6845
	130.00	0.7670	0.0316	0.7909
	155.16	1.1642	0.0364	1.0392
	162.27	1.2948	0.0315	1.0672
	175.92	1.5623	0.0579	1.1092
	182.00	1.6740	0.0795	2.1978
90.00 mph 60 deg with No Ice	100.00	0.4278	0.0228	0.5233
	120.00	0.6385	0.0297	0.6858
	130.00	0.7682	0.0317	0.7922
	155.16	1.1665	0.0365	1.0422
	162.27	1.2975	0.0316	1.0701
	175.92	1.5657	0.0581	1.1125
	182.00	1.6778	0.0797	2.1999
90.00 mph 90 deg with No Ice (Reduced DL)	100.00	0.4271	0.0153	0.5198
	120.00	0.6380	0.0193	0.6883
	130.00	0.7663	0.0203	0.7833
	155.16	1.1636	0.0204	1.0327
	162.27	1.2932	0.0142	1.0591
	175.92	1.5580	0.0114	1.0379
	182.00	1.6591	0.0150	1.1277
90.00 mph 90 deg with No Ice	100.00	0.4277	0.0153	0.5208
	120.00	0.6391	0.0193	0.6898
	130.00	0.7676	0.0204	0.7855
	155.16	1.1659	0.0204	1.0355
	162.27	1.2959	0.0142	1.0621
	175.92	1.5615	0.0114	1.0411

THIRD AMENDMENT TO ANTENNA SITE LICENSE AGREEMENT

THIS THIRD AMENDMENT TO ANTENNA SITE LICENSE AGREEMENT ("Amendment") dated as of the latter of the signature dates below, is made and entered into by and between the City of Wyandotte, a Michigan Municipal Corporation ("Licensor"), and T-Mobile Central LLC, a Delaware limited liability company, as successor in interest to Omnipoint Holdings, Inc., a Delaware corporation ("Licensee").

Recitals

The parties hereto recite, declare and agree as follows:

A. Licensor and Licensee (or as applicable, their respective predecessors in interest) entered into an Antenna Site License Agreement dated October 14, 1998 ("License Agreement") and subsequent First Amendment to the Antenna Site License Agreement dated March 1, 2004 and subsequent Second Amendment to the Antenna Site License Agreement dated July 1, 2008, with respect to Premises located at 365 Hudson, Wyandotte, Michigan.

B. Licensor and Licensee desire to enter into this Amendment in order to modify and amend certain provisions of the License Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Licensor and Licensee covenant and agree as follows:

1. Effective as of the date this Amendment is executed by all parties, (a) Licensee will have the right to modify its Antenna Facilities as described and depicted on Exhibit A, which is attached hereto and by this reference incorporated herein, wherefore the ground lease area of Exhibit A is slightly shifted to accurately depict the as built location of the equipment, and shall replace any and all previous Exhibit A's, and Licensor hereby consents to and approves of the modifications described and depicted on Exhibit A in all respects.

2. Commencing on the start of construction, the Monthly License Fee that the Licensee pays Licensor will be increased by Three Hundred Fifty Dollars (\$350.00). Rent shall be Two Thousand and 00/100 (\$2,997.00) per month. In addition, Licensor shall grant Licensee four (4) Renewal Terms of five (5) years each that are automatically renewed, unless either party gives the other a 180 day written notice during the initial term or any Renewal Term stating that the Agreement will not extend further beyond the then 5 year term. On a date which is (1) year following the Commencement Date and each year thereafter during the Term and Renewal Terms the monthly License Fee shall be increased annually in the amount equal to four percent (4%) per year.

3. Licensee's notice addresses in the License Agreement are deleted in their entirety and replaced with the following:

If to Licensee:

T-Mobile Central LLC
12920 SE 38th Street
Bellevue, WA 98006

Attn: Lease Compliance
Site # DE04120D/Wyandotte Tower

4. The terms and conditions of the License Agreement are incorporated herein by this reference, and capitalized terms used in this Amendment shall have the same meanings such terms are given in the License Agreement. Except as specifically set forth herein, this Amendment shall in no way modify, alter or amend the remaining terms of the License Agreement, all of which are ratified by the parties and shall remain in full force and effect. To the extent there is any conflict between the terms and conditions of the License Agreement and this Amendment, the terms and conditions of this Amendment will govern and control.

5. Licensor represents and warrants to Licensee that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Amendment, or if any such third party consent or approval is required, Licensor has obtained any and all such consents or approvals.

IN WITNESS WHEREOF, the parties have executed this Amendment effective as of the date of execution by the last party to sign.

**City of Wyandotte, a
Michigan municipal corporation**

**T-Mobile Central, LLC,
a Delaware limited Liability Company**

By: _____
Name: _____
Title: _____
Date: _____

By: _____
Name: _____
Title: _____
Date: _____

Managing Agent:

**NEW PAR, a Delaware Partnership dba Verizon Wireless
By: Verizon Wireless (VAW) LLC, its General Partner**

By: _____
Name: Lynn Ransey
Title: Area Vice President - Network
Date: _____

EXHIBIT A

Antenna Facilities

[See Attached]



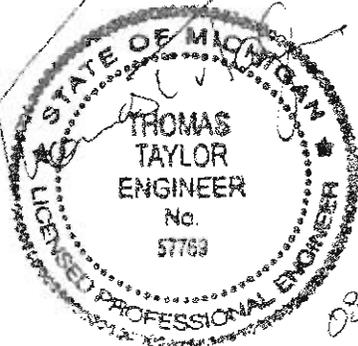
Structural Analysis Report

Prepared for:

Landtech
1275 McGregor Way
PO Box 193
Grawn, MI 49637

ATTN: Mr. Matthew Mokanyk

Structure : 182 ft PIROD Self Supported Tower
Proposed Carrier : T-Mobile
T-Mobile Site ID : DE04120D
Site ID : MI-1141
Site Location : MI-DET270, Wyandotte, MI
County : Wayne
Date : August 6, 2012
Usage : 49% Legs, 53% Diagonals,
33% Horizontals



Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 182 ft Self Supported Tower located at MI-DET270, Wyandotte, Wayne County < MI(site #MI-1141). The tower was originally designed and manufactured by PIROD (Drawing #201419-B dated January 14, 1997).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc.. Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. The analysis was performed in conformance with ANSI/TIA-222-G and local building codes for a basic wind speed of 90 mph no ice and 40 mph with 3/4" radial ice (3-second gust), Structure Classification II, Exposure C. This is in conformance with the IBC 2009: Section 1609.1.1, Exception (5) and Section 3103.

Basic Wind Speed: 90.0 mph
 Radial Ice: 40.0 mph w/ 0.75" ice
 Code: TIA/EIA-222-G / 2009 IBC / Michigan Building Code 2009

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
182.0	1	BCD-87010X	Top Platform	(1) 1 5/8	-
180.0	1	NERA 03HPL2121NR3 1 ft HP Dish	Dish Mounts	(3) LMR 400	Downriver Community
170.0	1	NERA 08HPL2121NR3 2 ft HP Dish			
	1	NERA 12HPL1771NR3 4 ft HP Dish			
154.0	12	API89016	(3) A-Frame	(12) 7/8	Sprint
141.0	3	TMBX-6517-R2M	(3) PCS frames	(18) 7/8	T-Mobile
	3	ETW200VS12UB			
130.0	12	LPD-7905/8	(3) PCS frames	(12) 7/8	Nextel
120.0	12	Allgon 7129.16	(3) A-Frame	(12) 7/8	Verizon
105.0	1	VHP2.5-180	(3) PCS frames	(2) 3/8	Fibertower
	6	HB-X-AW-19-65-00T		(12) 1 5/8	Metro PCS
100.0	1	DC/Fiber Box	(3) sector frames	(12) 7/8	AT&T
	3	700 MHz RRH		(1) RET Cable	
	3	AWS RRH		(1) Fiber Cable	
	6	TT19-08BP111-001		(2) DC Cables	
	9	P65-16-XLH-RR			

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
141.0	1	DC3-48-60-3-18G-01	(3) PCS frames	(1) 1-1/4 Hybrid Cable	T-Mobile
	3	FRJA RRU			
	3	FRIG RRU			
	3	FXFB RRU			
	6	TMBXX-6517-R2M			

The proposed cable may be placed anywhere on the tower. No line shielding was considered.

Results

The existing Self Supported Tower is structurally capable of supporting the existing and proposed antennas.

The maximum structural usages are: 49% Legs, 53% Diagonals and 33% Horizontals.

Leg Forces	Original Design Reactions	Current Analysis Reactions	% Of Design
Uplift (Kips)	426.30	297.38	51.7*
Axial (Kips)	470.90	345.05	54.3*
Shear (Kips)	N/A	36.64	0.0*

(*) The percentage is factored by 1.35 per TIA-EIA-G

The analysis reactions are less than the design reactions therefore no foundation modifications are required.

Conclusion

Based upon the analysis results, the existing structure meets the requirements per the ANSI/TIA-222-G standard for a basic wind speed of 90 mph no ice and 40 mph with 3/4" radial ice.

If you have any questions or require additional information, please call 402-289-1888.

Standard Conditions

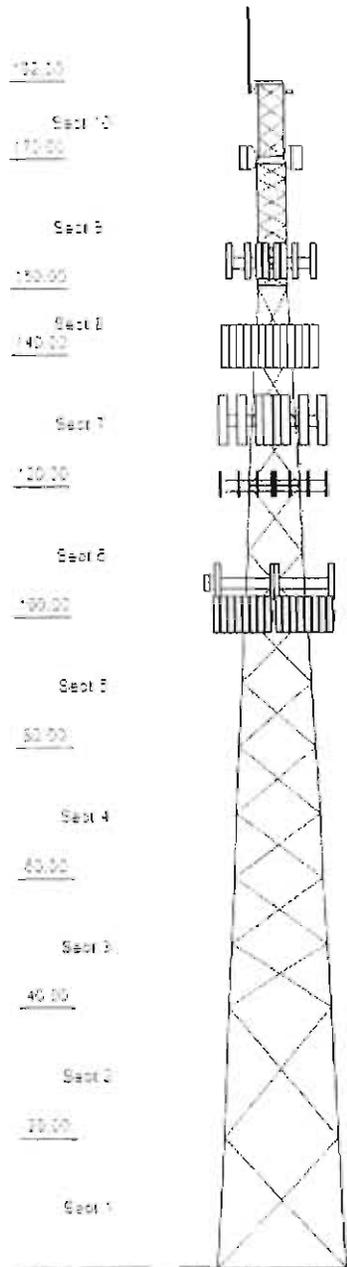
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessarily limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of Semaan Engineering Solutions, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Semaan Engineering Solutions and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Semaan Engineering Solutions is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



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 Loads: 90 mph no ice
 40 mph w/ 3/4" radial ice
 60 mph Serviceability

Uplift 237.30 k Moment 4.591.01 ft-k
 Vert 345.05 k Total Down 55.75 k
 Horiz 32.84 k Total Shear 55.87 k

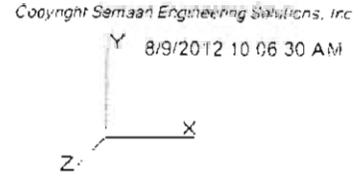
Job Information			
Tower : MI-1141	Location : MI-DET270, Wyandotte, MI		
Code : ANSI/TIA-222 Rev G	Shape : Triangle	Base Width : 20.00 ft	
Client : Landtech	Top Width : 4.50 ft		

Sections Properties				
Section	Leg Members		Diagonal Members	Horizontal Members
1	18B 50 ksi	18"BD 2.75"	DAE 36 ksi 3.5X3.5X0.3125	
2	18D 50 ksi	18"BD 2.5"	DAE 36 ksi 3.5X3.5X0.3125	
3 - 4	12B 50 ksi	12"BD 2.25"	SAE 36 ksi 3.5X3.5X0.3125	
5	12B 50 ksi	12"BD 2"	SAE 36 ksi 3.5X3.5X0.3125	
6	12B 50 ksi	12"BD 1.75"	SAE 36 ksi 3X3X0.3125	SAE 36 ksi 3X3X0.3125
7	12B 50 ksi	12"BD 1.5"	SAE 36 ksi 3X3X0.1875	
8	12B 50 ksi	12"BD 1.25"	SAE 36 ksi 2.5X2.5X0.1875	
9	SOL 50 ksi	2" SOLID	SOL 50 ksi 1" SOLID	SOL 50 ksi 1" SOLID
10	SOL 50 ksi	1 3/4" SOLID	SOL 50 ksi 3/4" SOLID	SOL 50 ksi 3/4" SOLID

Discrete Appurtenance				
Elev (ft)	Type	Qty	Description	
182.00	Whlp	1	BCD-87010N	
182.00	Other	1	15' x 2.5' rotatable platform	
182.00	Other	1	5/8" lightning rod w/extension	
180.00	Dish	1	NERA03HPL2121NR3 1 ft HP Dish	
170.00	Dish	1	NERA08HPL2121NR3 2 ft HP Dish	
170.00	Dish	1	NERA12HPL1771NR3 4 ft HP Dish	
154.00	Mounting Frame	3	AFrame	
154.00	Panel	12	AP189016	
141.00	Panel	1	DC3-48-60-3-18G-01	
141.00	Panel	3	FRIARRU	
141.00	Panel	3	FRIG RRU	
141.00	Panel	3	FXFB RRU	
141.00	Panel	3	ETW200VS12UB	
141.00	Panel	3	TMBX-6517-R2M	
141.00	Panel	6	TMBXX-6517-R2M	
141.00	Mounting Frame	3	PCS frames	
130.00	Panel	12	LPD-7905/8	
130.00	Mounting Frame	3	PCS frames	
120.00	Mounting Frame	3	AFrame	
120.00	Panel	12	Aligon 7129.16	
105.00	Dish	1	VHP2.5-180	
105.00	Mounting Frame	3	PCS frames	
105.00	Panel	6	HB-X-AW-19-65-00T	
100.00	Panel	1	DC/Fiber Box	
100.00	Panel	3	700 MHz RRH	
100.00	Panel	3	AWS RRH	
100.00	Panel	6	TT19-08BP111-001	
100.00	Mounting Frame	3	sector frames	
100.00	Panel	9	P65-16-XLH-RR	

Linear Appurtenance				
Elev (ft)	From	To	Qty	Description
0.000	0.000	182.00	1	1 5/8" Coax
0.000	0.000	180.00	1	LMR 400
0.000	0.000	170.00	2	LMR 400
0.000	0.000	154.00	12	7/8" Coax
0.000	0.000	141.00	18	7/8" Coax
0.000	0.000	141.00	1	1-1/4" Hybrid Cable
0.000	0.000	130.00	12	7/8" Coax
0.000	0.000	120.00	12	7/8" Coax
0.000	0.000	105.00	2	3/8" Coax
0.000	0.000	105.00	12	1 5/8" Coax
0.000	0.000	100.00	1	RET cable
0.000	0.000	100.00	1	Fiber cable
0.000	0.000	100.00	2	DC cable
0.000	0.000	100.00	12	7/8" Coax

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1



Section Forces

LoadCase 1.2D + 1.6W Normal

90.00 mph Normal to Face with No Ice

Gust Response Factor: 0.85
 Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Wind Importance Factor: 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Weight		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)									Total Area (sqft)	Total Weight (lb)				Ice Weight (lb)
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	1.00	1.00	0.00	3.95	2.19	0.00	671.7	0.0	386.95	53.84	440.79
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	1.00	1.00	0.00	8.25	8.99	0.00	1,738.9	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	1.00	1.00	0.00	8.30	15.14	0.00	1,184.0	0.0	694.81	357.71	1,052.52
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	1.00	1.00	0.00	19.88	73.23	0.00	3,246.2	0.0	1,658.30	1,690.5	3,348.80
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	1.00	1.00	0.00	23.65	116.80	0.00	4,706.5	0.0	1,947.93	2,603.0	4,550.94
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	1.00	1.00	0.00	26.81	172.73	0.00	6,047.0	0.0	2,146.09	3,690.2	5,836.37
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	1.00	1.00	0.00	29.13	172.73	0.00	6,855.1	0.0	2,249.73	3,500.1	5,749.84
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	1.00	1.00	0.00	30.85	172.73	0.00	7,023.6	0.0	2,262.12	3,260.7	5,522.86
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	1.00	1.00	0.00	25.88	172.73	0.00	9,765.7	0.0	1,763.37	2,928.2	4,691.65
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	1.00	1.00	0.00	27.23	172.73	0.00	10,647.2	0.0	1,619.04	2,534.0	4,153.05
													51,885.8	0.0				

LoadCase 1.2D + 1.6W 60 deg

90.00 mph 60 deg with No Ice

Gust Response Factor: 0.85
 Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Wind Importance Factor: 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Weight		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)									Total Area (sqft)	Total Weight (lb)				Ice Weight (lb)
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	0.80	1.00	0.00	3.95	2.19	0.00	671.7	0.0	386.95	53.84	440.79
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.80	1.00	0.00	8.25	8.99	0.00	1,738.9	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.80	1.00	0.00	7.35	15.14	0.00	1,184.0	0.0	615.16	357.71	972.88
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.80	1.00	0.00	17.43	73.23	0.00	3,246.2	0.0	1,454.45	1,690.5	3,144.95
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.80	1.00	0.00	20.56	116.80	0.00	4,706.5	0.0	1,693.28	2,603.0	4,296.29
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.80	1.00	0.00	23.34	172.73	0.00	6,047.0	0.0	1,868.33	3,690.2	5,558.61
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.80	1.00	0.00	25.30	172.73	0.00	6,855.1	0.0	1,954.05	3,500.1	5,454.15
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.80	1.00	0.00	26.65	172.73	0.00	7,023.6	0.0	1,953.63	3,260.7	5,214.38
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.80	1.00	0.00	22.81	172.73	0.00	9,765.7	0.0	1,554.63	2,928.2	4,482.91
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.80	1.00	0.00	24.01	172.73	0.00	10,647.2	0.0	1,427.64	2,534.0	3,961.64
													51,885.8	0.0				

LoadCase 1.2D + 1.6W 90 deg

90.00 mph 90 deg with No Ice

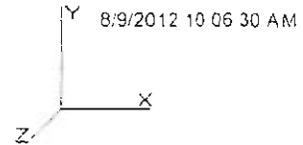
Gust Response Factor: 0.85
 Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Wind Importance Factor: 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Weight		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)									Total Area (sqft)	Total Weight (lb)				Ice Weight (lb)
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	0.85	1.00	0.00	3.95	2.19	0.00	671.7	0.0	386.95	53.84	440.79

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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Section Forces

9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.85	1.00	0.00	8.25	8.99	0.00	1,738.9	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.85	1.00	0.00	7.59	15.14	0.00	1,184.0	0.0	635.07	357.71	992.79
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.85	1.00	0.00	18.04	73.23	0.00	3,246.2	0.0	1,505.41	1,690.5	3,195.91
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.85	1.00	0.00	21.34	116.80	0.00	4,706.5	0.0	1,756.94	2,603.0	4,359.95
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.85	1.00	0.00	24.21	172.73	0.00	6,047.0	0.0	1,937.77	3,690.2	5,628.05
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.85	1.00	0.00	26.26	172.73	0.00	6,855.1	0.0	2,027.97	3,500.1	5,528.07
3	50.00	19.29	21.04	23.64	0.00	0.14	2.80	0.85	1.00	0.00	27.70	172.73	0.00	7,023.6	0.0	2,030.75	3,260.7	5,291.50
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.85	1.00	0.00	23.58	172.73	0.00	9,765.7	0.0	1,606.82	2,928.2	4,535.09
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.85	1.00	0.00	24.82	172.73	0.00	10,647.2	0.0	1,475.49	2,534.0	4,009.49
														51,885.8	0.0	34,966.38		

LoadCase 0.9D + 1.6W Normal

90.00 mph Normal to Face with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)														
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	1.00	1.00	0.00	3.95	2.19	0.00	503.8	0.0	386.95	53.84	440.79
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	1.00	1.00	0.00	8.25	8.99	0.00	1,304.2	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	1.00	1.00	0.00	8.30	15.14	0.00	888.0	0.0	694.81	357.71	1,052.52
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	1.00	1.00	0.00	19.88	73.23	0.00	2,434.7	0.0	1,658.30	1,690.5	3,348.80
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	1.00	1.00	0.00	23.65	116.80	0.00	3,529.9	0.0	1,947.93	2,603.0	4,550.94
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	1.00	1.00	0.00	26.81	172.73	0.00	4,535.2	0.0	2,146.09	3,690.2	5,836.37
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	1.00	1.00	0.00	29.13	172.73	0.00	5,141.3	0.0	2,249.73	3,500.1	5,749.84
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	1.00	1.00	0.00	30.85	172.73	0.00	5,267.7	0.0	2,262.12	3,260.7	5,522.86
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	1.00	1.00	0.00	25.88	172.73	0.00	7,324.3	0.0	1,763.37	2,928.2	4,691.65
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	1.00	1.00	0.00	27.23	172.73	0.00	7,985.4	0.0	1,619.04	2,534.0	4,153.05
														38,914.4	0.0	36,331.54		

LoadCase 0.9D + 1.6W 60 deg

90.00 mph 60 deg with No Ice (Reduced DL)

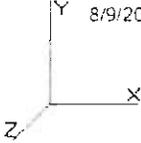
Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)														
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	0.80	1.00	0.00	3.95	2.19	0.00	503.8	0.0	386.95	53.84	440.79
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.80	1.00	0.00	8.25	8.99	0.00	1,304.2	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.80	1.00	0.00	7.35	15.14	0.00	888.0	0.0	615.16	357.71	972.88
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.80	1.00	0.00	17.43	73.23	0.00	2,434.7	0.0	1,454.45	1,690.5	3,144.95
6	110.0	22.76	15.46	18.83	0.00	0.18	2.66	0.80	1.00	0.00	20.56	116.80	0.00	3,529.9	0.0	1,693.28	2,603.0	4,296.29
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.80	1.00	0.00	23.34	172.73	0.00	4,535.2	0.0	1,868.33	3,690.2	5,558.61
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.80	1.00	0.00	25.30	172.73	0.00	5,141.3	0.0	1,954.05	3,500.1	5,454.15
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.80	1.00	0.00	26.65	172.73	0.00	5,267.7	0.0	1,953.63	3,260.7	5,214.38
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.80	1.00	0.00	22.81	172.73	0.00	7,324.3	0.0	1,554.63	2,928.2	4,482.91
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.80	1.00	0.00	24.01	172.73	0.00	7,985.4	0.0	1,427.64	2,534.0	3,961.64
														38,914.4	0.0	34,511.33		

Site Number: MJ-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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 8/9/2012 10:06:30 AM



Section Forces

LoadCase 0.9D + 1.6W 90 deg

90.00 mph 90 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Ice Weight (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)														
10	176.0	25.13	0.00	6.99	0.00	0.13	2.86	0.85	1.00	0.00	3.95	2.19	0.00	503.8	0.0	386.95	53.84	440.79
9	160.0	24.63	0.00	14.54	0.00	0.15	2.78	0.85	1.00	0.00	8.25	8.99	0.00	1,304.2	0.0	767.93	216.80	984.73
8	145.0	24.12	4.76	7.81	0.00	0.21	2.55	0.85	1.00	0.00	7.59	15.14	0.00	888.0	0.0	635.07	357.71	992.79
7	130.0	23.57	12.22	17.23	0.00	0.20	2.60	0.85	1.00	0.00	18.04	73.23	0.00	2,434.7	0.0	1,505.41	1,690.5	3,195.91
6	110.0	22.76	15.46	18.83	0.00	0.19	2.66	0.85	1.00	0.00	21.34	116.80	0.00	3,529.9	0.0	1,756.94	2,603.0	4,359.95
5	90.00	21.82	17.35	22.04	0.00	0.17	2.70	0.85	1.00	0.00	24.21	172.73	0.00	4,535.2	0.0	1,937.77	3,690.2	5,628.05
4	70.00	20.69	19.14	23.64	0.00	0.16	2.74	0.85	1.00	0.00	26.26	172.73	0.00	5,141.3	0.0	2,027.97	3,500.1	5,528.07
3	50.00	19.28	21.04	23.64	0.00	0.14	2.80	0.85	1.00	0.00	27.70	172.73	0.00	5,267.7	0.0	2,030.75	3,260.7	5,291.50
2	30.00	17.31	15.32	26.21	0.00	0.12	2.89	0.85	1.00	0.00	23.58	172.73	0.00	7,324.3	0.0	1,606.82	2,928.2	4,535.09
1	10.00	14.98	16.10	27.83	0.00	0.11	2.92	0.85	1.00	0.00	24.82	172.73	0.00	7,985.4	0.0	1,475.49	2,534.0	4,009.49
														38,914.4	0.0			34,966.38

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

40.00 mph Normal with 0.75 in Radial Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Ice Weight (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)														
10	176.0	4.96	0.00	30.60	23.60	0.52	1.88	1.00	1.00	1.77	21.23	2.19	6.50	2,004.1	1,332.4	168.36	21.29	189.66
9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	1.00	1.00	1.76	37.45	8.99	37.47	4,613.3	2,874.4	290.84	111.25	402.09
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	1.00	1.00	1.74	17.67	15.14	51.89	3,266.1	2,082.1	147.10	194.02	341.12
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	1.00	1.00	1.72	38.64	73.23	235.12	10,442.3	7,196.0	329.96	943.19	1,273.14
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	1.00	1.00	1.69	44.31	116.80	352.48	14,764.3	10,057.	378.64	1,456.4	1,565.15
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	1.00	1.00	1.66	46.77	172.73	491.96	19,225.4	13,178.	401.38	2,095.4	1,819.57
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	1.00	1.00	1.62	49.73	172.73	479.75	19,804.0	12,949.	417.47	2,021.0	2,022.49
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	1.00	1.00	1.56	51.76	172.73	463.88	19,546.4	12,522.	417.02	1,896.2	2,154.87
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	1.00	1.00	1.49	43.38	172.73	440.78	21,799.8	12,034.	335.96	1,754.8	2,090.78
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	1.00	1.00	1.33	43.95	172.73	394.92	21,072.8	10,425.	301.07	1,433.6	1,734.71
														136,538.5	84,652.7			13,593.59

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 60 deg

40.00 mph 60 deg with 0.75 in Radial Ice

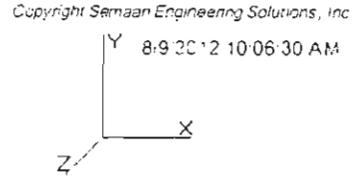
Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Ice Weight (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)														
10	176.0	4.96	0.00	30.60	23.60	0.52	1.88	0.80	1.00	1.77	21.23	2.19	6.50	2,004.1	1,332.4	168.36	21.29	189.66

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1



Section Forces

Seq	Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Ice Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	0.80	1.00	1.76	37.45	8.99	37.47	4,613.3	2,874.4	290.84	111.25	402.09	
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	0.80	1.00	1.74	16.72	15.14	51.89	3,266.1	2,082.1	139.18	194.02	333.20	
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	0.80	1.00	1.72	36.19	73.23	235.12	10,442.3	7,196.0	309.09	943.19	1,252.28	
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	0.80	1.00	1.69	41.22	116.80	352.48	14,764.3	10,057.1	352.21	1,456.4	1,565.15	
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	0.80	1.00	1.66	43.30	172.73	491.96	19,225.4	13,178.1	371.60	2,095.4	1,819.57	
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	0.80	1.00	1.62	45.90	172.73	479.75	19,804.0	12,949.1	385.33	2,021.0	2,022.49	
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	0.80	1.00	1.56	47.55	172.73	463.88	19,546.4	12,522.1	383.12	1,896.2	2,154.87	
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	0.80	1.00	1.49	40.32	172.73	440.78	21,799.8	12,034.1	312.24	1,754.8	2,067.06	
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	0.80	1.00	1.33	40.73	172.73	394.92	21,072.8	10,425.1	279.02	1,433.6	1,712.66	
															136,538.5	84,652.7	13,519.04		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.2D + 1.0Di + 1.0Wi 90 deg

40.00 mph 90 deg with 0.75 in Radial Ice

Gust Response Factor : 0.85

Dead Load Factor : 1.20

Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Ice Importance Factor : 1.00

Seq	Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Ice Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
10	176.0	4.96	0.00	30.60	23.60	0.52	1.88	0.85	1.00	1.77	21.23	2.19	6.50	2,004.1	1,332.4	168.36	21.29	189.66	
9	160.0	4.86	0.00	53.91	39.37	0.52	1.88	0.85	1.00	1.76	37.45	8.99	37.47	4,613.3	2,874.4	290.84	111.25	402.09	
8	145.0	4.76	4.76	20.24	12.43	0.40	2.06	0.85	1.00	1.74	16.96	15.14	51.89	3,266.1	2,082.1	141.16	194.02	335.18	
7	130.0	4.66	12.22	42.73	25.50	0.36	2.16	0.85	1.00	1.72	36.80	73.23	235.12	10,442.3	7,196.0	314.31	943.19	1,257.49	
6	110.0	4.50	15.46	47.57	28.74	0.32	2.24	0.85	1.00	1.69	41.99	116.80	352.48	14,764.3	10,057.1	358.82	1,456.4	1,565.15	
5	90.00	4.31	17.35	49.55	27.52	0.28	2.34	0.85	1.00	1.66	44.17	172.73	491.96	19,225.4	13,178.1	379.05	2,095.4	1,819.57	
4	70.00	4.09	19.14	52.13	28.49	0.26	2.42	0.85	1.00	1.62	46.85	172.73	479.75	19,804.0	12,949.1	393.37	2,021.0	2,022.49	
3	50.00	3.81	21.04	52.88	29.24	0.23	2.49	0.85	1.00	1.56	48.61	172.73	463.88	19,546.4	12,522.1	391.59	1,896.2	2,154.87	
2	30.00	3.42	15.32	49.13	22.92	0.18	2.66	0.85	1.00	1.49	41.09	172.73	440.78	21,799.8	12,034.1	318.17	1,754.8	2,072.99	
1	10.00	2.96	16.10	48.96	21.13	0.16	2.72	0.85	1.00	1.33	41.54	172.73	394.92	21,072.8	10,425.1	284.53	1,433.6	1,718.17	
															136,538.5	84,652.7	13,537.68		

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60.00 Wind Normal

Gust Response Factor : 0.85

Dead Load Factor : 1.00

Wind Load Factor : 1.00

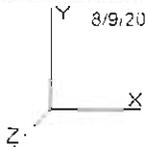
Wind Importance Factor : 1.00

Seq	Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Ice Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
10	176.0	11.17	0.00	6.99	0.00	0.13	2.86	1.00	1.00	0.00	3.95	2.19	0.00	559.7	0.0	107.49	14.96	122.44	
9	160.0	10.95	0.00	14.54	0.00	0.15	2.78	1.00	1.00	0.00	8.25	8.99	0.00	1,449.1	0.0	213.32	60.22	273.54	
8	145.0	10.72	4.76	7.81	0.00	0.21	2.55	1.00	1.00	0.00	9.26	15.14	0.00	986.6	0.0	215.42	99.36	314.79	
7	130.0	10.48	12.22	17.23	0.00	0.20	2.60	1.00	1.00	0.00	22.11	73.23	0.00	2,705.2	0.0	512.31	469.58	981.90	
6	110.0	10.12	15.46	18.83	0.00	0.18	2.66	1.00	1.00	0.00	23.65	116.80	0.00	3,922.1	0.0	541.09	723.06	1,264.15	
5	90.00	9.70	17.35	22.04	0.00	0.17	2.70	1.00	1.00	0.00	26.81	172.73	0.00	5,039.1	0.0	596.14	1,025.0	1,621.21	
4	70.00	9.20	19.14	23.64	0.00	0.16	2.74	1.00	1.00	0.00	29.13	172.73	0.00	5,712.6	0.0	624.93	972.25	1,597.18	
3	50.00	8.57	21.04	23.64	0.00	0.14	2.80	1.00	1.00	0.00	30.85	172.73	0.00	5,853.0	0.0	628.37	905.76	1,534.13	
2	30.00	7.69	15.32	26.21	0.00	0.12	2.89	1.00	1.00	0.00	25.88	172.73	0.00	8,138.1	0.0	489.83	813.41	1,303.24	
1	10.00	6.66	16.10	27.83	0.00	0.11	2.92	1.00	1.00	0.00	27.23	172.73	0.00	8,872.6	0.0	449.73	703.89	1,153.62	
															43,238.2	0.0	10,166.19		

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Section Forces

LoadCase 1.0D + 1.0W Service 60 deg

Serviceability - 60.00 Wind 60 deg

Gust Response Factor : 0.85
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Weight		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)									Linear Area (sqft)	Total Weight (lb)				
10	176.0	11.17	0.00	6.99	0.00	0.13	2.86	0.80	1.00	0.00	3.95	2.19	0.00	559.7	0.0	107.49	14.96	122.44
9	160.0	10.95	0.00	14.54	0.00	0.15	2.78	0.80	1.00	0.00	8.25	8.99	0.00	1,449.1	0.0	213.32	60.22	273.54
8	145.0	10.72	4.76	7.81	0.00	0.21	2.55	0.80	1.00	0.00	8.31	15.14	0.00	986.6	0.0	193.30	99.36	292.66
7	130.0	10.48	12.22	17.23	0.00	0.20	2.60	0.80	1.00	0.00	19.66	73.23	0.00	2,705.2	0.0	455.69	469.58	925.27
6	110.0	10.12	15.46	18.83	0.00	0.18	2.66	0.80	1.00	0.00	20.56	116.80	0.00	3,922.1	0.0	470.36	723.06	1,193.41
5	90.00	9.70	17.35	22.04	0.00	0.17	2.70	0.80	1.00	0.00	23.34	172.73	0.00	5,039.1	0.0	518.98	1,025.0	1,544.06
4	70.00	9.20	19.14	23.64	0.00	0.16	2.74	0.80	1.00	0.00	25.30	172.73	0.00	5,712.6	0.0	542.79	972.25	1,515.04
3	50.00	8.57	21.04	23.64	0.00	0.14	2.80	0.80	1.00	0.00	26.65	172.73	0.00	5,853.0	0.0	542.68	905.76	1,448.44
2	30.00	7.69	15.32	26.21	0.00	0.12	2.89	0.80	1.00	0.00	22.81	172.73	0.00	8,138.1	0.0	431.84	813.41	1,245.25
1	10.00	6.66	16.10	27.83	0.00	0.11	2.92	0.80	1.00	0.00	24.01	172.73	0.00	8,872.6	0.0	396.57	703.89	1,100.46
													43,238.2	0.0				

** = Section Force Exceeds Solidity Ratio Criteria

LoadCase 1.0D + 1.0W Service 90 deg

Serviceability - 60.00 Wind 90 deg

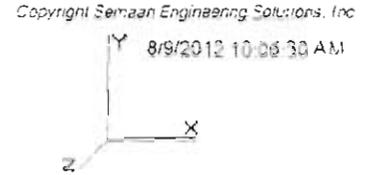
Gust Response Factor : 0.85
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Weight		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)									Linear Area (sqft)	Total Weight (lb)				
10	176.0	11.17	0.00	6.99	0.00	0.13	2.86	0.85	1.00	0.00	3.95	2.19	0.00	559.7	0.0	107.49	14.96	122.44
9	160.0	10.95	0.00	14.54	0.00	0.15	2.78	0.85	1.00	0.00	8.25	8.99	0.00	1,449.1	0.0	213.32	60.22	273.54
8	145.0	10.72	4.76	7.81	0.00	0.21	2.55	0.85	1.00	0.00	8.55	15.14	0.00	986.6	0.0	198.83	99.36	298.19
7	130.0	10.48	12.22	17.23	0.00	0.20	2.60	0.85	1.00	0.00	20.27	73.23	0.00	2,705.2	0.0	469.85	469.58	939.43
6	110.0	10.12	15.46	18.83	0.00	0.18	2.66	0.85	1.00	0.00	21.34	116.80	0.00	3,922.1	0.0	468.04	723.06	1,211.10
5	90.00	9.70	17.35	22.04	0.00	0.17	2.70	0.85	1.00	0.00	24.21	172.73	0.00	5,039.1	0.0	538.27	1,025.0	1,563.35
4	70.00	9.20	19.14	23.64	0.00	0.16	2.74	0.85	1.00	0.00	26.26	172.73	0.00	5,712.6	0.0	563.32	972.25	1,535.58
3	50.00	8.57	21.04	23.64	0.00	0.14	2.80	0.85	1.00	0.00	27.70	172.73	0.00	5,853.0	0.0	564.10	905.76	1,469.86
2	30.00	7.69	15.32	26.21	0.00	0.12	2.89	0.85	1.00	0.00	23.58	172.73	0.00	8,138.1	0.0	446.34	813.41	1,259.75
1	10.00	6.66	16.10	27.83	0.00	0.11	2.92	0.85	1.00	0.00	24.82	172.73	0.00	8,872.6	0.0	409.86	703.89	1,113.75
													43,238.2	0.0				

** = Section Force Exceeds Solidity Ratio Criteria

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1



Tower Loading

Discrete Appurtenance Properties

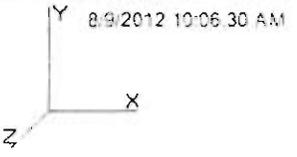
Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (ft)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
182.0	BCD-87010N	1	27.00	2.530	181.11	7.091	11.33	3.000	3.000	1.00	1.00	8.670
182.0	15' x 2.5' rotatable platform	1	1560.00	41.900	4220.00	83.041	0.000	0.000	0.000	1.00	1.00	0.000
182.0	5/8" lightning rod w/extension	1	108.00	5.000	235.68	11.029	0.000	0.000	0.000	1.00	1.00	2.750
180.0	NERA 03HPL2121NR3 1 ft HP	1	22.00	0.990	54.94	1.292	1.000	0.000	0.000	1.00	1.00	0.000
170.0	NERA 08HPL2121NR3 2 ft HP	1	66.00	3.960	163.90	5.154	2.500	0.000	0.000	1.00	1.00	0.000
170.0	NERA 12HPL1771NR3 4 ft HP	1	214.00	15.860	700.45	18.179	4.000	0.000	0.000	1.00	1.00	0.000
154.0	A-Frame	3	240.00	30.700	1153.39	83.395	0.000	0.000	0.000	1.00	0.67	0.000
154.0	AP189016	12	14.00	5.210	131.13	7.105	6.070	7.790	1.970	0.80	0.63	0.000
141.0	DC3-48-60-3-18G-01	1	14.50	3.540	34.80	4.880	1.800	16.87	5.710	1.00	1.00	0.000
141.0	FRIA RRU	3	55.00	4.064	130.32	5.462	1.833	19.00	5.000	0.80	1.00	0.000
141.0	FRIG RRU	3	26.00	2.050	106.52	14.747	1.570	11.21	7.000	0.80	1.00	0.000
141.0	FXFB RRU	3	55.10	4.160	132.19	11.145	1.610	22.10	5.200	0.80	1.00	0.000
141.0	ETW200VS12UB	3	11.00	0.470	23.04	0.986	0.525	7.700	3.000	0.80	1.00	0.000
141.0	TMBX-6517-R2M	3	15.40	6.024	146.30	7.380	6.910	6.600	3.300	0.80	0.75	0.000
141.0	TMBXX-6517-R2M	6	44.40	9.591	261.11	10.980	6.908	11.90	6.300	0.80	0.77	0.000
141.0	PCS frames	3	500.00	15.000	1016.13	34.269	0.000	0.000	0.000	1.00	0.67	0.000
130.0	LPD-7905/8	12	49.00	9.420	252.70	7.404	7.880	5.100	9.600	0.80	0.77	0.000
130.0	PCS frames	3	500.00	15.000	1016.13	34.269	0.000	0.000	0.000	1.00	0.67	0.000
120.0	A-Frame	3	240.00	30.700	1119.79	81.457	0.000	0.000	0.000	1.00	0.67	0.000
120.0	Allgon 7129.16	12	17.00	6.300	201.87	6.968	4.330	13.00	11.40	0.80	0.94	0.000
105.0	VHP2.5-180	1	47.60	8.440	95.92	9.582	2.920	0.000	0.000	1.00	1.00	0.000
105.0	PCS frames	3	500.00	15.000	1007.58	33.949	0.000	0.000	0.000	1.00	0.67	0.000
105.0	HB-X-AW-19-65-00T	6	28.66	2.798	163.36	6.000	6.000	6.200	6.200	0.80	1.00	0.000
100.0	DC/Fiber Box	1	32.80	1.467	120.14	2.818	2.000	11.00	11.00	1.00	1.00	0.000
100.0	700 MHz RRH	3	50.00	2.520	128.63	2.769	2.030	10.60	9.050	0.80	1.00	0.000
100.0	AWS RRH	3	50.00	2.480	132.99	2.710	1.740	12.20	10.90	0.80	1.00	0.000
100.0	TT19-08BP111-001	6	16.00	0.635	32.43	1.098	0.813	6.700	5.400	0.80	0.90	0.000
100.0	sector frames	3	500.00	15.000	997.49	33.573	0.000	0.000	0.000	1.00	0.67	0.000
100.0	P65-16-XLH-RR	9	64.00	8.400	244.30	9.360	6.000	12.00	6.000	0.80	0.75	0.000
Totals		111	12389.76		39106.88					Number of Appurtenances : 29		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	182.0	1 5/8" Coax	1	1.98	1.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	180.0	LMR 400	1	0.25	0.07	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	170.0	LMR 400	2	0.25	0.07	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	154.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	141.0	1-1/4" Hybrid Cable	1	1.25	0.95	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	141.0	7/8" Coax	18	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	130.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	120.0	7/8" Coax	12	1.11	0.52	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	105.0	1 5/8" Coax	12	1.98	1.04	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	105.0	3/8" Coax	2	0.44	0.08	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	100.0	7/8" Coax	12	1.11	0.52	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	100.0	DC cable	2	0.44	0.08	100	Lin App	Individual	0.00	N	1.00	1.00	0.00

Site Number : MI-1141
 Location : MI-DET270, Wyandotte, MI
 Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

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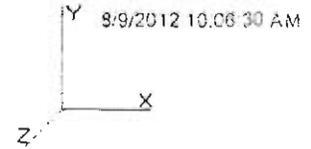


Tower Loading

0.00	100.0	Fiber cable	1	0.44	0.08	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	100.0	RET cable	1	0.44	0.08	0	Lin App	Individual	0.00	N	1.00	1.00	0.00

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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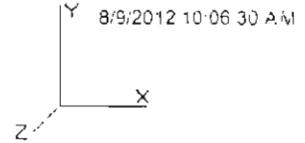


Force/Stress Summary

Section: 1		U20-18"BD-2.75"L		Bot Elev (ft): 0.00		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	18B - 18"BD 2.75"	-324.14	1.2D + 1.6W	20.03	100	100	100	32.6	50.0	742.04	0	0	0.00	0.00	43 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3.5X3.5X0.3125	-13.83	1.2D + 1.6W 90	27.59	50	50	22	153.3	36.0	40.19	4	2	127.24	139.20	34 Member X
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	18B - 18"BD 2.75"	281.04	0.9D + 1.6W 60	50	65	801.90	0	0	0.00	0.00	35	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	DAE - 3.5X3.5X0.3125	12.58	1.2D + 1.6W 60	36	58	113.43	4	2	0.00	139.20	11	Member			
Section: 2		U18-18"BD-2.5"L		Bot Elev (ft): 20.00		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	18B - 18"BD 2.5"	-285.94	1.2D + 1.6W	20.03	100	100	100	32.6	50.0	612.89	0	0	0.00	0.00	46 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3.5X3.5X0.3125	-14.46	1.2D + 1.6W 90	26.25	50	50	22	145.9	36.0	44.38	4	2	127.24	139.20	32 Member X
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	18B - 18"BD 2.5"	247.59	0.9D + 1.6W 60	50	65	662.40	0	0	0.00	0.00	37	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	DAE - 3.5X3.5X0.3125	13.62	1.2D + 1.6W 90	36	58	113.43	4	2	0.00	139.20	12	Member			
Section: 3		U16-12B-2.25"		Bot Elev (ft): 40.00		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 2.25"	-256.21	1.2D + 1.6W	10.02	100	100	100	24.4	50.0	514.03	0	0	0.00	0.00	49 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 3.5X3.5X0.3125	-9.83	1.2D + 1.6W 90	18.44	50	50	50	160.4	36.0	18.35	1	1	49.70	43.50	53 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 2.25"	223.54	0.9D + 1.6W 60	50	65	536.85	0	0	0.00	0.00	41	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 3.5X3.5X0.3125	9.80	1.2D + 1.6W 90	36	58	54.17	1	1	0.00	43.50	18	Member			

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Force/Stress Summary

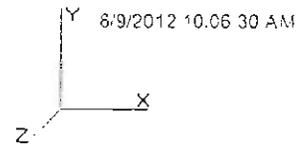
Section: 4		U14-2.25"		Bot Elev (ft): 60.00		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 2.25"	-211.54	1.2D + 1.6W	10.02	100	100	100	24.4	50.0	514.03	0	0	0.00	0.00	41 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.3125	-10.07	1.2D + 1.6W 90	16.80	50	50	50	146.1	36.0	22.12	1	1	49.70	43.50	45 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 2.25"	184.48	0.9D + 1.6W 60	50	65	536.85	0	0	0.00	0.00	34	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 3.5X3.5X0.3125	9.93	1.2D + 1.6W 90	36	58	54.17	1	1	0.00	43.50	18	Member			

Section: 5		U12-2"		Bot Elev (ft): 80.00		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 2"	-164.07	1.2D + 1.6W	10.02	100	100	100	24.4	50.0	405.83	0	0	0.00	0.00	40 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.3125	-10.09	1.2D + 1.6W 90	15.24	50	50	50	132.5	36.0	26.86	1	1	49.70	43.50	37 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 2"	139.98	1.2D + 1.6W 60	50	65	423.90	0	0	0.00	0.00	33	Member			
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0				
DIAG	SAE - 3.5X3.5X0.3125	9.90	1.2D + 1.6W 90	36	58	54.17	1	1	0.00	43.50	18	Member			

Section: 6		U10-1.75"		Bot Elev (ft): 100.0		Height (ft): 20.000									
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.75"	-113.58	1.2D + 1.6W	10.02	100	100	100	26.0	50.0	308.82	0	0	0.00	0.00	36 Member X
HORIZ	SAE - 3X3X0.3125	-1.60	1.2D + 1.6W	8.000	100	100	100	163.0	36.0	15.14	0	0	0.00	0.00	10 Member Z
DIAG	SAE - 3X3X0.3125	-8.93	1.2D + 1.6W 90	13.79	50	50	50	140.5	36.0	20.36	1	1	31.81	34.80	43 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	12B - 12"BD 1.75"	98.16	0.9D + 1.6W 60	50	65	324.45	0	0	0.00	0.00	30	Member			
HORIZ	SAE - 3X3X0.3125	2.09	1.2D + 1.6W 60	36	58	57.67	0	0	0.00	0.00	3	Member			
DIAG	SAE - 3X3X0.3125	8.85	1.2D + 1.6W 90	36	58	46.60	1	1	0.00	34.80	18	Member			

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class: II
 Exposure: C
 Topo: 1

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Force/Stress Summary

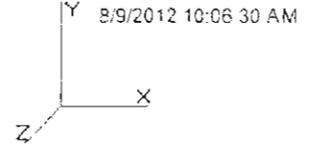
Section: 7		U08		Bot Elev (ft): 120.0				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.5"	-65.83	1.2D + 1.6W	10.02	100	100	100	30.3	50.0	222.99	0	0	0.00	0.00	29 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3X3X0.1875	-7.22	1.2D + 1.6W	12.50	50	50	50	125.9	36.0	15.34	1	1	31.81	20.88	47 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	12B - 12"BD 1.5"	55.28	1.2D + 1.6W 60	50	65	238.50	0	0	0	0.00	0.00	23	Member		
HORIZ		0.00		0	0	0.00	0	0	0	0.00	0.00	0			
DIAG	SAE - 3X3X0.1875	6.89	1.2D + 1.6W 60	36	58	28.68	1	1	0.00	0.00	20.88	24	Member		

Section: 8		U06-10FT-1-1/4"		Bot Elev (ft): 140.0				Height (ft): 10.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	12B - 12"BD 1.25"	-31.18	1.2D + 1.6W	10.02	100	100	100	36.4	50.0	150.33	0	0	0.00	0.00	20 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 2.5X2.5X0.1875	-4.34	1.2D + 1.6W	11.41	50	50	50	138.4	36.0	10.64	1	1	31.81	20.88	40 Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	12B - 12"BD 1.25"	26.65	1.2D + 1.6W 60	50	65	165.60	0	0	0	0.00	0.00	16	Member		
HORIZ		0.00		0	0	0.00	0	0	0	0.00	0.00	0			
DIAG	SAE - 2.5X2.5X0.1875	4.31	0.9D + 1.6W 60	36	58	22.55	1	1	0.00	0.00	20.88	19	Member		

Section: 9		H-5.0-2"		Bot Elev (ft): 150.0				Height (ft): 20.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 2" SOLID	-25.22	1.2D + 1.6W	2.37	100	100	100	56.9	50.0	111.59	0	0	0.00	0.00	22 Member X
HORIZ	SOL - 1" SOLID	-0.67	1.2D + 1.6W 60	4.516	100	100	100	216.8	50.0	3.78	0	0	0.00	0.00	17 Member X
DIAG	SOL - 1" SOLID	-2.46	1.2D + 1.6W 60	5.497	50	50	50	131.9	50.0	10.19	0	0	0.00	0.00	24 Member X
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls		
LEG	SOL - 2" SOLID	22.70	1.2D + 1.6W 60	50	65	141.37	0	0	0	0.00	0.00	16	Member		
HORIZ	SOL - 1" SOLID	0.61	1.2D + 1.6W	50	65	35.34	0	0	0	0.00	0.00	1	Member		
DIAG	SOL - 1" SOLID	2.22	1.2D + 1.6W	50	65	35.34	0	0	0	0.00	0.00	6	Member		

Site Number: MI-1141
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 Exposure: C
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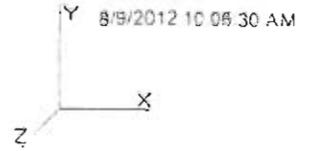


Force/Stress Summary

Section: 10		V-4.5-12FT		Bot Elev (ft): 170.0		Height (ft): 12.000												
		Force		Len		Bracing %		Fy		phi		Shear		Bear				
		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Num	Num	(kip)	(kip)	%	Controls		
Max Compression Member											Bolts	Holes						
LEG	SOL - 1 3/4" SOLID	-6.56	1.2D + 1.6W	2.79	100	100	100	76.6	50.0	70.50	0	0	0.00	0.00	9	Member X		
HORIZ	SOL - 3/4" SOLID	-0.41	1.2D + 1.6W	4.500	100	100	100	288.0	50.0	1.20	0	0	0.00	0.00	33	Member X		
DIAG	SOL - 3/4" SOLID	-0.96	1.2D + 1.6W 90	5.296	50	50	50	169.5	50.0	3.48	0	0	0.00	0.00	27	Member X		
Max Tension Member																		
LEG	SOL - 1 3/4" SOLID	5.19	1.2D + 1.6W 60	50	65	108.24	0	0	0.00	0.00	0.00	0.00	4	Member				
HORIZ	SOL - 3/4" SOLID	0.52	1.2D + 1.6W	50	65	19.88	0	0	0.00	0.00	0.00	0.00	2	Member				
DIAG	SOL - 3/4" SOLID	1.00	1.2D + 1.6W	50	65	19.88	0	0	0.00	0.00	0.00	0.00	5	Member				

Site Number: MI-1141
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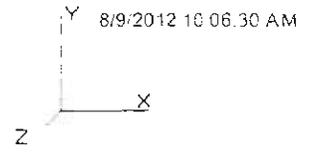
Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.0D + 1.0W Service 90 deg	1b	-6.28	-58.06	-3.26	
	1a	-8.44	95.09	4.51	
	1	-0.69	18.60	-1.25	
1.0D + 1.0W Service 60 deg	1b	-7.16	-69.34	-4.15	
	1a	-5.48	62.43	2.52	
	1	-0.59	62.54	-6.02	
1.0D + 1.0W Service Normal	1b	-2.86	-26.40	-2.35	
	1a	2.86	-26.40	-2.35	
	1	0.00	108.43	-11.05	
1.2D + 1.0Di + 1.0Wi 90 deg	1b	-6.83	-15.46	-3.36	
	1a	-8.81	131.01	4.52	
	1	-1.02	58.04	-1.15	
1.2D + 1.0Di + 1.0Wi 60 deg	1b	-7.75	-26.89	-4.48	
	1a	-5.80	100.10	2.35	
	1	-0.88	100.38	-6.20	
1.2D + 1.0Di + 1.0Wi Normal	1b	-2.95	15.37	-2.72	
	1a	2.95	15.37	-2.72	
	1	0.00	142.85	-11.28	
0.9D + 1.6W 90 deg	1b	-25.45	-257.07	-13.38	
	1a	-27.28	290.37	14.42	
	1	-2.48	16.76	-1.04	
0.9D + 1.6W 60 deg	1b	-28.61	-297.38	-16.57	
	1a	-16.69	173.63	7.31	
	1	-2.12	173.81	-18.11	
0.9D + 1.6W Normal	1b	-13.26	-144.55	-10.16	
	1a	13.26	-144.55	-10.16	
	1	0.00	339.16	-36.26	
1.2D + 1.6W 90 deg	1b	-25.13	-251.78	-13.19	
	1a	-27.61	296.19	14.61	
	1	-2.47	22.34	-1.42	
1.2D + 1.6W 60 deg	1b	-28.29	-292.13	-16.39	
	1a	-17.01	179.34	7.50	
	1	-2.12	179.55	-18.49	
1.2D + 1.6W Normal	1b	-12.94	-139.15	-9.97	
	1a	12.94	-139.15	-9.97	
	1	0.00	345.05	-36.64	

Max Uplift: 297.38 (kip) Moment: 5,591.01 (ft-kip) 1.2D + 1.6W Normal
 Max Down: 345.05 (kip) Total Down: 66.75 (kip)
 Max Shear: 36.64 (kip) Total Shear: 56.57 (kip)

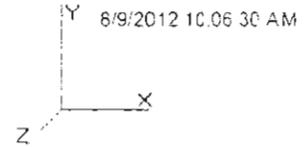
Site Number: MI-1141
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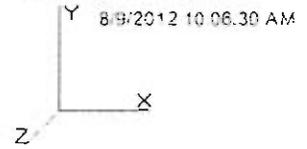


Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
Serviceability - 60.00 Wind 60 deg	100.00	0.0942	0.0051	0.1109
	110.00	0.1149	0.0050	0.1259
	120.00	0.1379	0.0063	0.1383
	130.00	0.1633	0.0067	0.1530
	140.00	0.1909	0.0072	0.1629
	155.16	0.2369	0.0080	0.1816
	170.00	0.2857	-0.0078	0.2497
	178.71	0.3152	-0.0044	0.1895
	182.00	0.3265	0.0134	0.2203
Serviceability - 60.00 Wind 90 deg	100.00	0.0947	0.0030	0.1114
	110.00	0.1155	0.0034	0.1271
	120.00	0.1385	0.0037	0.1398
	130.00	0.1642	0.0039	0.1540
	140.00	0.1916	0.0042	0.1648
	155.16	0.2379	0.0043	0.1811
	170.00	0.2866	-0.0133	0.2502
	178.71	0.3161	-0.0126	0.1966
	182.00	0.3269	0.0041	0.1549
Serviceability - 60.00 Wind Normal	100.00	0.0962	0.0051	0.1131
	110.00	0.1174	0.0058	0.1282
	120.00	0.1403	0.0063	0.1407
	130.00	0.1666	0.0066	0.1569
	140.00	0.1943	0.0070	0.1656
	155.16	0.2402	0.0063	0.1831
	170.00	0.2893	0.0000	0.2480
	178.71	0.3192	0.0000	0.1681
	182.00	0.3317	0.0033	0.3492
40.00 mph 60 deg with 0.75 in Radial Ice	100.00	0.0871	0.0045	0.0980
	110.00	0.1050	0.0051	0.1111
	120.00	0.1255	0.0055	0.1214
	130.00	0.1470	0.0058	0.1330
	140.00	0.1708	0.0062	0.1422
	155.16	0.2103	0.0059	0.1560
	170.00	0.2514	-0.0050	0.2049
	178.71	0.2765	-0.0027	0.1618
	182.00	0.2864	0.0058	0.1801
40.00 mph 90 deg with 0.75 in Radial Ice	100.00	0.0866	0.0026	0.0981
	110.00	0.1043	0.0030	0.1106
	120.00	0.1248	0.0032	0.1208
	130.00	0.1462	0.0034	0.1343
	140.00	0.1698	0.0036	0.1411
	155.16	0.2088	0.0033	0.1532
	170.00	0.2496	-0.0062	0.2012
	178.71	0.2742	-0.0046	0.1633
	182.00	0.2833	0.0017	0.1370
40.00 mph Normal with 0.75 in Radial Ice	100.00	0.0867	0.0045	0.0993
	110.00	0.1050	0.0051	0.1119
	120.00	0.1254	0.0055	0.1222

Site Number: MI-1141
 Location: MI-DET270, Wyandotte, MI
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : C
 Topo : 1

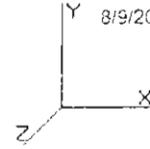
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	130.00	0.1476	0.0058	0.1373
	140.00	0.1714	0.0062	0.1435
	155.16	0.2110	0.0055	0.1567
	170.00	0.2523	0.0000	0.2065
	178.71	0.2779	0.0000	0.1495
	182.00	0.2889	0.0029	0.2639
90.00 mph 60 deg with No Ice (Reduced DL)	100.00	0.3368	0.0186	0.3962
	110.00	0.4110	0.0213	0.4498
	120.00	0.4923	0.0233	0.4939
	130.00	0.5837	0.0248	0.5477
	140.00	0.6817	0.0267	0.5822
	155.16	0.8452	0.0421	0.6465
	170.00	1.0190	0.0072	0.8919
	178.71	1.1242	0.0466	0.6748
	182.00	1.1641	0.1333	0.7862
90.00 mph 60 deg with No Ice	100.00	0.3372	0.0187	0.3968
	110.00	0.4115	0.0213	0.4504
	120.00	0.4930	0.0233	0.4946
	130.00	0.5845	0.0249	0.5484
	140.00	0.6827	0.0268	0.5832
	155.16	0.8465	0.0422	0.6480
	170.00	1.0208	0.0072	0.8944
	178.71	1.1262	0.0468	0.6763
	182.00	1.1662	0.1337	0.7888
90.00 mph 90 deg with No Ice (Reduced DL)	100.00	0.3377	0.0106	0.3970
	110.00	0.4119	0.0122	0.4534
	120.00	0.4946	0.0132	0.4983
	130.00	0.5852	0.0141	0.5468
	140.00	0.6835	0.0151	0.5877
	155.16	0.8488	0.0159	0.6465
	170.00	1.0230	-0.0537	0.8950
	178.71	1.1282	-0.0536	0.7022
	182.00	1.1668	0.0182	0.5520
90.00 mph 90 deg with No Ice	100.00	0.3381	0.0107	0.3977
	110.00	0.4124	0.0122	0.4541
	120.00	0.4953	0.0133	0.4991
	130.00	0.5861	0.0141	0.5480
	140.00	0.6845	0.0151	0.5888
	155.16	0.8501	0.0159	0.6478
	170.00	1.0246	-0.0538	0.8972
	178.71	1.1300	-0.0537	0.7035
	182.00	1.1688	0.0183	0.5540
90.00 mph Normal to Face with No Ice (Reduced DL)	100.00	0.3444	0.0183	0.4046
	110.00	0.4201	0.0208	0.4587
	120.00	0.5025	0.0227	0.5031
	130.00	0.5961	0.0238	0.5595
	140.00	0.6958	0.0256	0.5922
	155.16	0.8608	0.0269	0.6576
	170.00	1.0369	0.0000	0.8948
	178.71	1.1441	0.0000	0.6012
	182.00	1.1889	0.0300	1.2551
90.00 mph Normal to Face with No Ice	100.00	0.3449	0.0183	0.4053
	110.00	0.4208	0.0209	0.4595
	120.00	0.5033	0.0227	0.5040

Site Number: MI-1141
Location: MI-DET270, Wyandolte, MI
Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure : C
Topo : 1

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130.00	0.5971	0.0238	0.5609
140.00	0.6969	0.0257	0.5935
155.16	0.8623	0.0269	0.6591
170.00	1.0388	0.0000	0.8975
178.71	1.1463	0.0000	0.6029
182.00	1.1912	0.0301	1.2583
182.00	0.0000	0.0000	0.0000