

ADDENDUM NO. 1

**PRE-BID MEETING
MT. PLEASANT CENTER PHASE II DEMOLITION
CITY OF MT. PLEASANT, MICHIGAN**

TO: ALL PROSPECTIVE BIDDERS ON THE SUBJECT PROJECT

RE: CHANGES TO BIDDING DOCUMENTS

*Acknowledge Receipt of this Addendum on Page P-1
of the Bidform (Proposal) where indicated.*

Please see the enclosed information:

1. Pre-Bid Meeting Minutes
2. Pre-Bid Meeting Sign-In Sheet
3. AKT Asbestos Section

Specifications:

1. Bid Opening date changed to Friday March 18, 2016 at 1:30 p.m.
2. Replace Bidform C-410-6 – 9 with attached revised Bidform C-410-6 – 9
 - a. Asbestos Abatement and Disposal item was removed from each bid and shall be included within the Building Structure Demolition and Tunnel Demolition line items.
3. Replace Sections 02223 and 02923 with attached revised Sections 02223 and 02923
 - a. Revised Section 02223 includes Soil Testing QA/QC for fill material.
 - b. Revised Section 02923 includes Soil Testing QA/QC for topsoil.

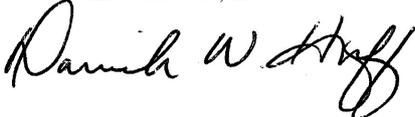
Drawings:

1. Replace Drawings D-5199-05 and D-5199-06 with attached revised Drawings D-5199-05 and D-5199-06.
 - a. Revised Drawing D-5199-05 includes additional pavement cores
 - b. Revised Drawing D-5199-06 includes additional note for thickness and material of “two track” road.

Please sign the Acknowledgment below and attach this Addendum No. 1 to the front of your bidding document. Acknowledge the same in the Bid Form (Proposal).

Prepared by:

SPICER GROUP, INC.



Darrick W. Huff, P.E.
Project Manager
March 8, 2016

ACKNOWLEDGMENT ADDENDUM NO. 1

BIDDER: _____

BY: _____

DATE: _____



MEETING MINUTES

MANDATORY PRE-BID MEETING

MT. PLEASANT CENTER PHASE II DEMOLITION CITY OF MT. PLEASANT

Friday, March 4, 2016
10:00 a.m. at Mt. Pleasant City Hall.

- I. INTRODUCTIONS
- II. SCHEDULE
 - a. Bids Due – 1:30 P.M. on Friday March, 18, 2016
 - b. Tentative Award – April 11, 2016
 - c. Start of Construction – Base Bid April, 2016, Alternate Bid No. 1 April, 2016, Alternate Bid No. 2 April, 2016
 - d. Work associated with Michigan Blight Elimination Grant (MBEG) Completion – May 30, 2016
 - e. Work associated with Michigan Department of Environmental Quality (MDEQ) Loan Completion – June 15, 2016
 - f. Substantial Completion – Base Bid September 30, 2016, Alternate Bid No. 1 September 30, 2016, Alternate Bid No. 2 September 30, 2016
 - g. Final Completion – Base Bid November 15, 2016, Alternate Bid No. 1 November 15, 2016, Alternate Bid No. 2 November 15, 2016
- III. DISCUSSION
 - a. General overview of project
 - i. Buildings and Areas associated with each Bid
 - ii. Site Features: including Underground Storage Tanks, Water Tower Vault, Consumers Energy Substation Concrete Pad, hydrants and gas risers.
 - b. Archeological Discovery
- IV. QUESTIONS
 - 1. Can crushed concrete be used as fill? Crushed concrete will not be permitted as a fill material.
 - 2. Asbestos abatement line item #4? See revised bidform, asbestos abatement for structures will be included in the building structure and tunnel demolition line items.
 - 3. If the backfill goes over the quantity bid on, how will that be paid? A unit price will be negotiated with Contractor for additional fill material.

4. All structures done by Timeline? All structures for each bid shall be completed according to the above timeline.
5. Is soil around foundations contaminated and need to go to landfill? Reference reports in the appendixes to determine if soil around foundations is contaminated.
6. Should entire crawl space be considered contaminated with asbestos? No, the entire area of the crawl space should not be considered contaminated, refer to reports to determine what areas are contaminated.
7. Are tunnels accessible? Tunnels are accessible, at certain points the tunnels are small and have limited access.
8. Are drawings for tunnels accurate? Drawings for tunnels are based off of existing drawings and need to be field verified.
9. On June 6 there will be no work done due to the Saginaw Chippewa Tribe's Day of Remembering.

V. CONTACT

Darrick Huff, P.E. Project Manager

Work: 989-754-4717

Fax: 989-754-4440

Email: darrickh@spicergroup.com

SIGN-IN SHEET



CITY OF MT. PLEASANT MT. PLEASANT CENTER PHASE II DEMOLITION

Friday March 4, 2016 Mandatory Pre Bid Meeting @10:00am

Please Print Legibly

	CONTACT NAME	COMPANY	E-MAIL	PHONE NUMBER	FAX NUMBER
1	Doug Melching	MELCHING DEMO	dougmelching@melchingdemo.com	616-837-1214	616-837-0109
2	Pat Arbetts	Quality Envir	Pat	989-329-9220	
3	Tom Lantagne	Hamrich	toml@hamrich.com	734-731-9793	734-654-3116
4	Gene Gutting	Pitsch Co	gene@pitschco.com	616-363-4895	363-5585
5	Marty Smith	Dore Assoc	est@doreassoc.com	989-684-8358	684-6663
6	RON LAWLER	BDS	BLAWLER C BDS ENVIRONMENTAL CORP	586-755-9030	586 755-9068
7	Ron Wansery	Wansery Tree Serv	Wanserytreeservice@hotmail.com	989-681-3014	989-681-5221
8	Jenny Decker	NADC	j.decker@nadc1.com	810-441-2448	605-3
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SIGN-IN SHEET



CITY OF MT. PLEASANT MT. PLEASANT CENTER PHASE II DEMOLITION

Friday March 4, 2016 Mandatory Pre Bid Meeting @10:00am

Please Print Legibly

#	CONTACT NAME	COMPANY	E-MAIL	PHONE NUMBER	FAX NUMBER
1	Bernie Vlaming	PRO-TECH ENV.	bernie@protechbv.net	616 291-2090	616 364-9194
2	JOSEPH LUCZYK	ABATEKENT PROF	ABATEPROJ@GMAIL.COM	616 308 8827	EMAIL
3	DAVID MACDONALD	RICKMAN	DAVID@RICKMANENTERPRISES.COM	248 421-9865	EMAIL
4	AARON DEMAND	BBEK	Kevin@bbkenvironment.com	(313) 492-1854	EMAIL
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SIGN-IN SHEET



CITY OF MT. PLEASANT MT. PLEASANT CENTER PHASE II DEMOLITION

Friday March 4, 2016 Mandatory Pre Bid Meeting @10:00am

Please Print Legibly

	CONTACT NAME	COMPANY	E-MAIL	PHONE NUMBER	FAX NUMBER
1	Kirk Tronby	BlueStar Inc	Estimating@bluestardemo.com	586-427-9937	586-427-9937
2	Scott Moritz	ET Mackenzie	smoritz@mackenzieco.com	517-280-3999	
3	Josh Fuller	Trust Thermal	josh@TrustThermal.com	989-720-8834	989-720-8836
4	Ryan Londrigan	AKT Peerless	Ryan@AKTPeerless.com	989-284-7238	
5	Jacob Lepp	SPICER	Jacob@SPICERGROUP.COM	989-754-4717	
6	Mark Bolle	Bolle Contract	Mbolle@cmsinter.net	989-386-7311	
7	erry Decker	North American	erry		
8	Chuck McHugh	McHugh and Sons	chuck@mcHughSons.com	989-772-1309	
9	Steve Kilder	HBC Contracting	brett.eberhard@hbc-contracting.com	517	719-5886
10	Pat Wurtzel	Bierlein	pwurtzele@bierlein.com	989-205-2981	989-496-0148
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Asbestos Abatement Crawlspace Soil:

Based on the presence of soil containing greater than 1% asbestos, the following buildings will require abatement and disposal of all asbestos containing debris and a minimum of 4-inches of soil from the entire crawl space areas as part of the asbestos abatement activities prior to demolition.

- Building 7
- Building 8
- Building 10
- Building 11
- Building 12
- Building 36

As discussed at the walk through, all other on-site structures containing ACM pipe insulation will require abatement of the pipe insulation and all visible debris.

AKT Peerless is in the process of conducting further evaluation of suspect asbestos containing materials (ACMs) at the subject property. Revised Homogeneous Area tables and Pre-Demolition Hazardous Materials Surveys will be issued as part of a future addendum.

All work shall be overseen by the Engineer. Contractor must prepare and submit a written work plan to Engineer/Owner prior to start of work. The work plan must include a description of how asbestos containing crawl space soils will be abated. Engineer and Owner reserves the right to review, inspect, and reject methods proposed or on-site work practices by Contractor.

Asbestos Contaminated Debris

Due to deteriorating building conditions and scrap theft, asbestos containing materials have become non-intact and have contaminated building contents. Porous and permeable building contents/materials (including, but not limited to, carpet, fabric furniture, loose drywall, and other miscellaneous items) impacted with asbestos contamination shall be removed and disposed by a licensed contractor as asbestos containing. Hard surface materials capable of being properly decontaminated can be disposed of as general demolition debris or recycled.

All work shall be overseen by the Engineer. Contractor must prepare and submit a written work plan to Engineer/Owner prior to start of work. The work plan must include a description of how asbestos and non-asbestos debris will be handled. Engineer and Owner reserves the right to review, inspect, and reject methods proposed or on-site work practices by Contractor. As necessary prior to proceeding with asbestos abatement, the Engineer and Contractor will review the site conditions room by room to identify or confirm areas of non-intact asbestos.

Contractor will be responsible to make their own determination of environmental abatement and disposal necessary to prepare the building for demolition. No change orders will be issued for handling and disposal of contaminated asbestos debris or for field conditions that differ from the estimated quantities.

Demolition – Abatement Licensing

Demolition and abatement contractors shall be properly licensed to conduct their respective work activities. Demolition of non-friable asbestos containing materials (roofing and foundations) shall be conducted as a Class II activity and all personnel within the regulated area shall be properly trained and accredited in accordance with applicable regulations.

4. BIDDER will complete the Work in accordance with the Contract Documents for the following price(s):

Base Bid

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
1.	1	LS	Preparation of Work Plan and Health & Safety Plan, Site Security & Fencing Plan, Site Services, Mobilization & Demobilization	\$ _____	\$ _____
2.	30	ALLOW	Inspection - Air Monitoring Days, (Engineer Allowance)	\$ _____ \$650.00	\$ _____
3.	_____	Day	Additional Inspection - Air Monitoring Days after Allowance. Additional days budgeted by CONTRACTOR to complete work.	\$ _____ \$650.00	\$ _____
4.	1	LS	Environmental Abatement & Disposal of Miscellaneous Regulated and Hazardous Materials, Incl. Pipe Liquids	\$ _____	\$ _____
5.	1	LS	Building #10 Structure Demolition	\$ _____	\$ _____
6.	1	LS	Building #12 Structure Demolition	\$ _____	\$ _____
7.	1	LS	Building #99 Structure Demolition	\$ _____	\$ _____
8.	1	LS	Building #100 Structure Demolition	\$ _____	\$ _____
9.	1	LS	Site Feature Demolition, including Pipe Tunnel Seals and Asphalt, Curb, & Gutter, and Sidewalk	\$ _____	\$ _____
10.	1	LS	Underground Storage, Tank, Vault and Piping Removal, Complete, Including Pipe Tunnel Seal	\$ _____	\$ _____
11.	1	LS	Earthwork, Grading	\$ _____	\$ _____
12.	1	LS	Backfill (Maximum 15,000 MDOT Class II Sand, Compacted in Place)	\$ _____	\$ _____
13.	1	LS	Topsoil, Seed, Mulch (Approx. 12,000 SY)	\$ _____	\$ _____
TOTAL AMOUNT OF BID-----					\$ _____

Paid Direct to
Engineer by Owner

Alternate Bid No. 1

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
1.	1	LS	Preparation of Work Plan and Health & Safety Plan, Site Security & Fencing Plan, Site Services, Mobilization & Demobilization	\$ _____	\$ _____
2.	120	ALLOW	Inspection - Air Monitoring Days (Engineer Allowance)	\$ _____ \$650.00	\$ _____ Paid Direct to Engineer by Owner
3.	_____	Day	Additional Inspection - Air Monitoring Days after Allowance. Additional days budgeted by CONTRACTOR to complete work.	\$ _____ \$650.00	\$ _____
4.	1	LS	Environmental Abatement & Disposal of Miscellaneous Regulated and Hazardous Materials, incl. Pipe Liquids	\$ _____	\$ _____
5.	1	LS	Building #5 Structure Demolition	\$ _____	\$ _____
6.	1	LS	Building #7 Structure Demolition	\$ _____	\$ _____
7.	1	LS	Building #8 Structure Demolition	\$ _____	\$ _____
8.	1	LS	Building #9 Structure Demolition	\$ _____	\$ _____
9.	1	LS	Building #11 Structure Demolition	\$ _____	\$ _____
10.	1	LS	Building #35 Structure Demolition	\$ _____	\$ _____
11.	1	LS	Building #36 Structure Demolition	\$ _____	\$ _____
12.	1	LS	Building #37 Structure Demolition	\$ _____	\$ _____
13.	1	LS	Building #38 Structure Demolition	\$ _____	\$ _____
14.	1	LS	Building #75 Structure Demolition	\$ _____	\$ _____
15.	1	LS	Building #79 Structure Demolition	\$ _____	\$ _____
16.	1	LS	Building #111 Structure Demolition	\$ _____	\$ _____
17.	1	LS	Building #113 Structure Demolition	\$ _____	\$ _____
18.	1	LS	Earthwork, Grading	\$ _____	\$ _____
19.	1	LS	Site Feature Demolition, Tunnel Demolition, including Pipe Tunnel Seals and Asphalt, Curb & Gutter, and Sidewalk	\$ _____	\$ _____
20.	1	LS	Backfill (Maximum 81,000 CY MDOT Class II Sand, Compacted in Place)	\$ _____	\$ _____
21.	1	LS	Topsoil, Seed, Mulch (Approx. 94,000 SY)	\$ _____	\$ _____
TOTAL AMOUNT OF BID-----					\$ _____

Alternate Bid No. 2

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
1.	1	LS	Preparation of Work Plan and Health & Safety Plan, Site Security & Fencing Plan, Site Services, Mobilization & Demobilization	\$ _____	\$ _____
2.	150	ALLOW	Inspection - Air Monitoring Days (Engineer Allowance)	\$ _____ \$650.00	\$ _____ Paid Direct to Engineer by Owner
3.	_____	Day	Additional Inspection - Air Monitoring Days after Allowance. Additional days budgeted by CONTRACTOR to complete work.	\$ _____ \$650.00	\$ _____
5.	1	LS	Environmental Abatement & Disposal of Miscellaneous Regulated and Hazardous Materials, incl. Pipe Liquids	\$ _____	\$ _____
6.	1	LS	Building #5 Structure Demolition	\$ _____	\$ _____
7.	1	LS	Building #7 Structure Demolition	\$ _____	\$ _____
8.	1	LS	Building #8 Structure Demolition	\$ _____	\$ _____
9.	1	LS	Building #9 Structure Demolition	\$ _____	\$ _____
10.	1	LS	Building #10 Structure Demolition	\$ _____	\$ _____
11.	1	LS	Building #11 Structure Demolition	\$ _____	\$ _____
12.	1	LS	Building #12 Structure Demolition	\$ _____	\$ _____
13.	1	LS	Building #35 Structure Demolition	\$ _____	\$ _____
14.	1	LS	Building #36 Structure Demolition	\$ _____	\$ _____
15.	1	LS	Building #37 Structure Demolition	\$ _____	\$ _____
16.	1	LS	Building #38 Structure Demolition	\$ _____	\$ _____
17.	1	LS	Building #75 Structure Demolition	\$ _____	\$ _____
18.	1	LS	Building #79 Structure Demolition	\$ _____	\$ _____
19.	1	LS	Building #99 Structure Demolition	\$ _____	\$ _____
20.	1	LS	Building #100 Structure Demolition	\$ _____	\$ _____
21.	1	LS	Building #111 Structure Demolition	\$ _____	\$ _____

Item No.	Estimated Quantity	Unit	Description	Unit Price	Amount
22.	1	LS	Building #113 Structure Demolition	\$ _____	\$ _____
23.	1	LS	Site Feature Demolition, Tunnel Demolition, including Pipe Tunnel Seals and Asphalt, Curb & Gutter, and Sidewalk	\$ _____	\$ _____
24.	1	LS	Underground Storage Tank, Vault and Piping Removal Complete	\$ _____	\$ _____
25.	1	LS	Earthwork, Grading	\$ _____	\$ _____
26.	1	LS	Backfill (Maximum 96,000 CY MDOT Class II Sand, Compacted in Place)	\$ _____	\$ _____
27.	1	LS	Topsoil, Seed, Mulch (Approx. 106,000 SY)	\$ _____	\$ _____
TOTAL AMOUNT OF BID-----					\$ _____

SECTION 02223

BACKFILLING

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fill materials.
- B. Backfilling
- C. Consolidation and compaction.

1.2 RELATED SECTIONS

- A. Section 02222 - Excavation.

1.3 UNIT PRICE - BASIS OF MEASUREMENT

- A. Backfilling:
 - 1. Basis of Measurement: Included in the unit price bid for the utility or structure being removed as stated in the Proposal.
 - 2. Basis of Payment: Includes all excavation, labor, material, furnishing, hauling, placing, grading, and compacting of specified fill as required to fill the excavated areas to the required grade and elevation as stated on the plans.

1.4 REFERENCES

- A. ANSI/ASTM C117 - Test Method for Materials Finer than 75 mm (No. 200) Sieve in Mineral Aggregates by Washing.
- B. ANSI/ASTM C136 – Method for Sieve Analysis of Fine and Coarse Aggregates.
- C. ANSI/ASTM D698 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 5.5 lb (2.49 kg) Rammer and 12 inch (304.8 mm) Drop.
- D. ANSI/ASTM D1556 - Test Method for Density of Soil in Place by the Sand-Cone Method.
- E. ANSI/ASTM D1557 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb (4.54 Kg) Rammer and 18 inch (457 mm) Drop.
- F. MDOT Standard Specifications for Construction current edition.
- G. ASTM D2922 - Test Methods of Density of Soil and Soil - Aggregate in Place by the Nuclear Method (Shallow Depth).

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Samples: Submit 10 lb. sample of each type of fill to Engineer, in air-tight containers, if requested.

2. PART 2 PRODUCTS

2.1 FILL MATERIALS

- A. All fill material shall be subject to the approval of the ENGINEER.
- B. For approval of fill material, notify the ENGINEER at least twenty working days in advance of intention to import material, designate the proposed borrow area, provide a minimum 10-pound representative sample to ENGINEER and permit the ENGINEER the option to sample at the source borrow area for the purpose of making acceptance tests to prove the quality of the material.
- C. Type A - Coarse Stone Fill: MDOT 6A – for wet excavation, excavation within open drain, refill for poor soil or over excavation in pipe trench, compacted to 95 percent of maximum density. A ballast type crushed limestone free of shale, clay, friable material, sand debris graded in accordance with ANSI/ASTM C136.
- D. Type B - Engineered Fill: MDOT Class II - for dry excavation and backfill around structure compacted to 95 percent of maximum density in accordance with MDOT standards.
- E. Type C – Structural Fill: MDOT Class I – for lower area of excess excavation over 24” compacted to 97 percent of maximum density in accordance with MDOT standards.
- F. Type D – Acceptable Native Subsoil: Reused, free of gravel larger than 3 inch size, and debris, backfill above bedding of pipe to subgrade in greenbelt area. Compacted to 90 percent of maximum density in accordance with MDOT standards. As approved by the Engineer.
- G. Type E – Dense Aggregate: MDOT 22A compacted crushed limestone - for access roads and/or temporary patches on traveled surfaces and aggregate base course of asphalt pavement compacted to 95 percent of maximum density
- H. Type F – Coarse Stone Fill: MDOT 7A – for filling over excavation. A ballast type crushed limestone compacted to 98% of maximum density in accordance with MDOT standards.
- I. Type G – Flowable Fill – mixture of Portland cement, fly ash, sand and water in the following proportions. Flowable fill shall be produced and delivered at a minimum temperature of 50°F. Mixtures shall be transported to the point of placement in a revolving drum mixer or agitator.

Portland Cement	Type I or IA	50 lb/cyd
Fly Ash	ASTM C618, Class C or F	500 lb/cyd
Sand	MDOT 2NS	2850 lb/cyd
Water	Approx. 376 lb/cyd (sufficient to produce desired followability)	

J. Fill Material – Submittals

Contractor must receive approval from the ENGINEER prior to import backfill materials. Approval for import of backfill materials is conditioned upon submittal and review of the information described below.

Any fill material obtained from off-site sources shall be free from contamination and shall meet specific environmental and quality assurance requirements as outlined below. Contractor shall provide documentation from each source of fill verifying the fill to be

free of contaminants prior to bringing on site. For each of the backfill materials, the CONTRACTOR shall furnish a certification to the OWNER, for each source location stating the following.

1. The origin of the backfill material and address location.
2. Provide a scaled site map or aerial photograph depicting the source material origin and sample location(s).
3. Affirm no evidence of known or suspected sources of environmental contamination that may have impacted proposed backfill materials.
4. The backfill materials are homogeneous in nature, description of general composition of the backfill materials, affirmation that materials are free from debris, large rocks, concrete, or other conditions, which would make the material unsuitable for use as backfill, and meet the backfill specification described in the Contract Documents.
5. Certify that all information submitted is complete and accurate.
6. Certify that the soil samples submitted to OWNER are representative of the entire material proposed for use at the OWNER's property.

OWNER may elect to conduct laboratory analytical testing on imported fill material which shall be compared to performance criteria described below.

For each discrete soil sample collected, laboratory analytical parameters and methods shall meet the following requirements:

1. Volatile organic compounds (EPA Method 8260) – Note: Backfill material with any detectable concentrations of volatile organic compounds may be rejected.
2. Semi-volatile organic compounds (EPA Method 8270)
3. PCBs (EPA Method 8081/8082)
4. Metals, including, arsenic, barium, cadmium, copper, lead, mercury, selenium, silver, zinc (EPA Method 6020, 7470/7471)
5. Chloride, for soil from road construction projects or located beneath parking lots (EPA Method 9056).

The above identified target parameters for backfill materials must be below the latest published MDEQ Part 201 Generic Residential Cleanup Criteria (GRCC).

Acceptable target ranges for environmental testing will be as follows:

Parameter	Acceptable Range
Environmental Testing (VOCs, SVOCs, PCBs)	<TDL
Remaining Environmental Testing	<GRCC

TDL – Target Detection Limit

Testing results for additional parameters will be evaluated by the OWNER at the time of test submittal.

OWNER may also conduct random Quality Assurance or Environmental testing of imported materials, during the project. Upon request, Contractor shall provide 10 lb sample of material to OWNER, in air-tight containers. Testing conducted by OWNER will be at OWNER's expense.

In the event the Environmental or Quality Assurance testing shows that imported material does not meet specifications, the Contractor will be required to identify another source or

if already imported determine the extent and remove the non-specified materials and supply acceptable material.

2.2 FILL MATERIAL

- A. Fill material, unless specified otherwise, shall be soil or soil-rock mixture which is free from organic matter and other deleterious substance. It shall contain no rocks or lumps over six inches in greatest dimension and not more than 15% of the rocks or lumps shall be larger than 2 ½ inches in greatest dimension.
- B. Fill material obtained from offsite sources shall meet the requirements of the preceding paragraph and additionally shall be predominantly granular with a maximum particle size of two inches and a plasticity index of twelve or less.
- C. Fill material placed within two feet horizontally of the base of building foundations and/or slabs shall have a plasticity index of 15 or less.

2.3 CLAY

- A. Clay shall consist of low permeability soil approved by ENGINEER. Quality Assurance testing conducted by ENGINEER may include but is not limited to:
 - 1. Percent Fines
 - 2. Clay Content
 - 3. Sand Content
 - 4. Atterberg Limits
 - 5. Hydraulic Conductivity

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify fill materials to be reused are acceptable.
- B. Verify foundation and/or perimeter drainage installation has been inspected.

3.2 PREPARATION

- A. Generally, compact subgrade to density requirements for subsequent backfill materials.
- B. Cut out soft areas of subgrade not capable of insitu compaction. Backfill with Type A fill (wet excavation) or Type B fill (dry excavation), and compact to density equal to or greater than requirements for subsequent backfill material.
- C. Prior to placement of fill material in building and paved areas, compact upper 12 inches of the subgrade to 95 percent of its maximum dry density as determined by MDOT Standard Requirements.

3.3 BACKFILLING

- A. Backfill areas to proposed subgrade with unfrozen materials.
- B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen or spongy subgrade surfaces.

- C. Granular Fill: Place and machine compact materials with plate compactor in continuous layers not exceeding 12 inches compacted depth.
- D. Native Fill: Place and machine compact material with plate compactor or equivalent.
- E. Machine compact under springline of pipe with plate compactor or equivalent.
- F. Employ a placement method that does not disturb or damage foundation perimeter drainage conduit in trenches.
- G. Maintain optimum moisture content of backfill materials to attain required compaction density.
- H. Backfill against supported foundation walls. Do not backfill against unsupported foundation walls.
- I. Backfill simultaneously on each side of unsupported foundation walls until supports are in place.
- J. Make grade changes gradual. Blend slope into level areas.
- K. Remove surplus backfill materials from site.
- L. Leave fill material stockpile areas completely free of excess fill materials.
- M. No material shall be placed in freestanding water prior to compaction.
- N. All rocks greater than 50 mm in diameter, roots and other organic debris shall be removed from the clay material prior to compaction.

3.4 COMPACTION REQUIREMENTS

- A. Unless otherwise specified on the drawings or in other sections of the specifications, fill and backfill shall be placed in eight inch lifts and each lift shall be compacted to not less than the following percentages of the maximum density.

BACKFILL/FILL TYPE	PERCENTAGE OF MAXIMUM DENSITY REQUIRED
Granular backfill/fill within the influence of pavements, structures, or utilities	95%
Granular backfill/fill not within the influence of pavements, structures, or utilities	90%
Cohesive backfill/fill not within the influence of pavements, structures, or utilities	90%
Clay over relocated soils	95%

For the purpose of the preceding table; within the influence of pavements, structures, or utilities is considered as being within the one on one influence of the bearing plane of the item.

Compaction by jetting will not be permitted unless specifically authorized by the ENGINEER.

Any ponded water in the construction area shall be removed. No material shall be placed in freestanding water prior to compaction.

3.5 TOLERANCES

- A. Top Surface of Backfilling Under Paved Areas: Plus or minus 1/2 inch from required elevations.

3.6 FIELD QUALITY CONTROL

- A. Compaction testing will be performed in accordance with MDOT Standard requirements.
- B. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at no cost to Owner.
- C. Frequency of Tests: As directed by the Soils Engineer.
- D. Proof roll compacted fill surfaces using heavy equipment such as fully loaded front end loader or tandem-axle dump truck.

3.7 PROTECTION OF FINISHED WORK

- A. Protect finished Work.
- B. Recompact fills subjected to vehicular traffic.

3.8 ACCEPTANCE

- A. The following does not constitute the acceptance of the Work in the event the work or any material is not in accordance with the Contract Documents, and therefore does not release the Contractor from its obligation to perform and furnish the Work/Material in accordance with the Contract Documents:
 - 1. A certification by the OWNER or OWNER's Representative of any Request for Payment or final payment;
 - 2. The issuance of a Substantial Completion certificate;
 - 3. Any payment by the OWNER to the CONTRACTOR;
 - 4. Any Partial Use;
 - 5. Any act of acceptance by the OWNER or any failure to do so;
 - 6. Any review and approval of a Shop Drawing, sample, test procedure or other Submittal;
 - 7. Any review of a Progress Schedule;
 - 8. Any On-Site Inspection;
 - 9. Any inspection, test or approval;
 - 10. Any issuance of a notice of acceptability by the OWNER or OWNER's Representative; or
 - 11. Any correction of defective Work or any completion of Work by the OWNER or OWNER's Representative.

Due to any independent inspection or testing performed by the owner, if the imported material is found not to meet the specifications, the CONTRACTOR must (a) pay all related costs, including an appropriate portion of the delay and costs occasioned by discovery of defective work; (b) schedule related activities; (c) repair and associated damage including impacts to human health and the environment; and (d) promptly remove and replace defective work.

END OF SECTION

SECTION 02923
LANDSCAPE GRADING

1. PART 1 GENERAL

1.1 WORK INCLUDED

- A. Finish Grade Subsoil and Proof Roll.
- B. Place, Level, and Compact Topsoil.

1.2 RELATED WORK

- A. Section 02211 - Rough Grading.
- B. Section 02936 - Seeding: Finish ground cover.

1.3 SAMPLES

- A. Submit 10 lb sample of imported fill to testing laboratory, in air-tight container, if requested.
- B. Disregard sample submission if recent test results are available for type of fill.

1.4 PROTECTION

- A. Protect landscaping and other features remaining as final work.
- B. Protect existing structures, fences, roads, sidewalks, paving, mailboxes, and curbs.

1.5 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Landscape Grading:
 - 1. Basis of Measurement: Included in the lump sum price bid for Grading as stated in the proposal.
 - 2. Basis of Payment: Includes all labor, excavation, fill for landscape grading and grading necessary to obtain the required contours and other landscaping necessary to return work area to preconstruction conditions.

2. PART 2 PRODUCTS

2.1 MATERIALS

- A. Topsoil: Min. 4" compacted depth.
- B. Acceptable target ranges for Topsoil Quality Assurance testing will be as follows:

Parameter	Acceptable Range
pH	5.5 – 8.5
% Organic Matter	2% - 25%
Salinity	<4 mmhos/cm
Texture Class	humus-bearing natural mineral soil of loam, sandy loam, silty loam, or clay loam classification

When approved by OWNER, natural topsoil may be amended by the CONTRACTOR with approved materials and methods to meet the above specifications.

Testing results for additional parameters will be evaluated by the OWNER at the time of test submittal.

Owner may also conduct random Quality Assurance or Environmental testing of imported materials during the project. Upon request, CONTRACTOR shall provide 10 lb sample of material to OWNER, in air-tight containers. Testing conducted by OWNER will be at OWNER's expense.

In the event the Environmental or Quality Assurance testing shows that imported material does not meet specifications, the CONTRACTOR will be required to identify another source or if already imported determine the extent and remove the non-specified materials and supply acceptable material.

- C. Submit lab results or samples for testing as requested by the Owner or Engineer if imported topsoil is used.

3. PART 3 EXECUTION

3.1 INSPECTION

- A. Verify site conditions and note irregularities affecting work of this Section.
- B. Beginning work of this Section means acceptance of existing conditions.

3.2 SUBSOIL PREPARATION

- A. Eliminate uneven areas and low spots. Remove debris, roots, branches, stones, in excess of 1/2 inch in size. Remove subsoil contaminated with petroleum products.
- B. Scarify subgrade to depth of 4 inches where topsoil is scheduled. Scarify in areas where equipment used for hauling and spreading topsoil has compacted subsoil.

3.3 PLACING TOPSOIL

- A. Place topsoil to a minimum 4-inch compacted depth in areas where seeding, sodding and planting is scheduled.
- B. Use topsoil in relatively dry state. Place during dry weather.
- C. Fine grade topsoil eliminating rough or low areas. Maintain levels, profiles, and contours of subgrade.

- D. Remove stone, roots, grass, weeds, debris, and foreign material while spreading.
- E. Manually spread topsoil around trees and plants to prevent damage.
- F. Lightly compact. Roll placed topsoil.
- G. Remove surplus subsoil and topsoil from site.
- H. Leave stockpile area and site clean and raked, ready to receive landscaping.
- I. Place required trees, shrubs, fences, and mail boxes in their proper locations.
- J. Reconstruct and place guard rails in proper locations to meet MDOT and local Road Commission specifications.

3.4 TOLERANCES

- A. Top of Topsoil: Plus or minus 1/2 inch.

END OF SECTION



GENERAL NOTE

AERIAL IMAGES COURTESY OF GOOGLE EARTH.

CONSTRUCTION NOTES

ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL CALL "MISS DIG" (811 or 1-800-482-7171) A MINIMUM OF 3 WORKING DAYS PRIOR TO CONSTRUCTION.

CONTRACTOR TO FILL DEMOLISHED/REMOVED AREAS WITH CLASS II SAND, COMPACTED TO 95%, THEN TOPSOIL, SEED AND MULCH DISRUPTED AREAS ONCE DEMOLITION IS COMPLETE.

ONSITE WATER, SANITARY SEWER, AND STORM SEWER UTILITIES ARE TO REMAIN LIVE AND INTACT THROUGHOUT AND AFTER THE PROJECT, EXCEPT WHERE BEING CAPPED AT BUILDING FOUNDATIONS AS INDICATED ON THE PLAN.

GAS AND ELECTRIC UTILITIES ARE TO BE PROPERLY AND SAFELY CAPPED AND ABANDONED AT BUILDING FOUNDATION. UTILITY COMPANIES SHALL DISCONNECT SERVICES AT THE ROAD RIGHT OF WAY. CONTRACTOR TO COORDINATE THE WORK AND CITY WILL PAY DISCONNECTION FEE(S) TO UTILITY COMPANIES DIRECTLY AS DISCUSSED IN SECTION 01010.

CONTRACTOR SHALL INSTALL AND MAINTAIN STORM DRAIN FABRIC ON ALL ON-SITE CATCH BASINS AND VENTED MANHOLE STRUCTURES WHERE THE POSSIBILITY OF DRAINAGE EXISTS RESULTING FROM CONSTRUCTION ACTIVITIES.

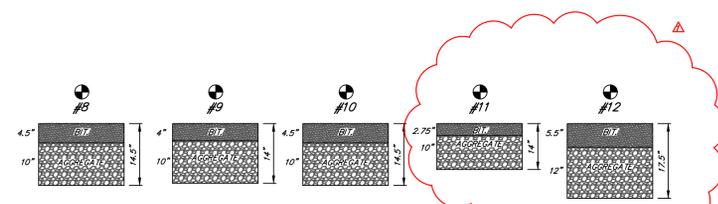
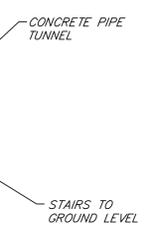
ALL MISCELLANEOUS SITE FEATURES, SUCH AS HYDRANTS AND GAS RISERS, ARE TO BE FIELD LOCATED, REMOVED AND CAPPED.

CONTRACTOR SHALL REFERENCE PIPE LIQUID DISPOSAL NOTES ON SHEET 10.

CROSS SECTIONS FOR MANHOLES ARE SHOWN ON SHEETS 8 AND 9.

LEGEND

- ABANDON
 - CUT AND CAP UTILITIES SERVICING BUILDINGS AT LOCATIONS SHOWN.
 - STORM SEWER, SANITARY SEWER, WATER MAIN AND OTHER UTILITY SERVICES: ABANDON ALL OTHER UTILITIES OUTSIDE OF INFLUENCE OF DEMOLITION BUILDINGS. CONTACT UTILITY PROVIDERS PRIOR TO BEGINNING DEMOLITION TO VERIFY LOCATIONS AND REMOVAL/ABANDONMENT PROCESS.
 - WATER MAIN TO BE CAPPED WITH FLOWABLE FILL.
- DEMOLISH & REMOVE
 - BUILDINGS: REMOVE STRUCTURE ABOVE AND BELOW GRADE, INCLUDING INTERIOR/EXTERIOR CONCRETE SLABS, FOUNDATIONS, FENCING AND MISCELLANEOUS FEATURES
 - CONCRETE SIDEWALKS: REMOVE CONCRETE SIDEWALKS IN AREAS SHOWN. EXCAVATE AND REMOVE SUB-BASE MATERIALS, TOP SOIL AND SEED.
 - ASPHALT PARKING AREAS: REMOVE ASPHALT AREAS AS SHOWN. EXCAVATE AND REMOVE SUB-BASE MATERIALS, TOP SOIL AND SEED.
 - WATER TOWER: CONCRETE VAULT AND FOOTINGS
- DEMOLISH & REMOVE
 - CONCRETE PIPE TUNNEL: CUT, SEAL AND REMOVE TUNNEL PER DETAIL ON SHEET 10.
- DEMOLISH & REMOVE
 - ASPHALT AREAS: REMOVE TOP LAYER OF ASPHALT SURFACE.
- SAWCUT LINE
- ABANDON
 - HYDRANT: CUT AND CAP HYDRANTS. HYDRANTS ARE TO BE CAPPED USING FLOWABLE FILL. ALL HYDRANT LOCATIONS ARE TO BE FIELD VERIFIED.



PAVEMENT CORES
SEE THIS SHEET FOR CORE LOCATIONS.

BUILDINGS #7-12 DEMOLITION AND SITE PLAN
SCALE: 1" = 75'

DATE	BY	REVISIONS	PER	ADDENDUM NO.	DATE
JAN	RS	REVISIONS	1	3-07-16	

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

CITY OF MT. PLEASANT
MT. PLEASANT CENTER DEMOLITION

BUILDINGS #7-12, #11 & #13
DEMOLITION & SITE PLAN

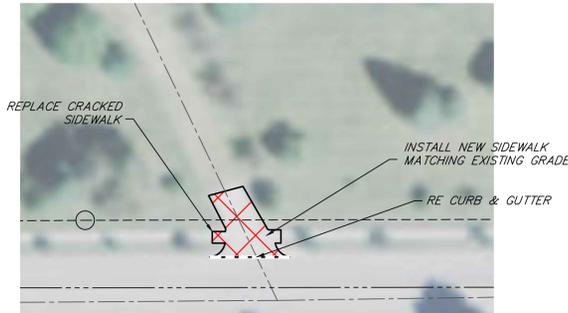
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DE. BY: JAJ	CH. BY: DWH	PROJECT NO.
DR. BY: RS	APP. BY: DWH	1231555G2015
STDS.	SHEET 5 OF 13	D
DATE JANUARY, 2015	FILE NO.	5
SCALE AS SHOWN	D-5199-05	

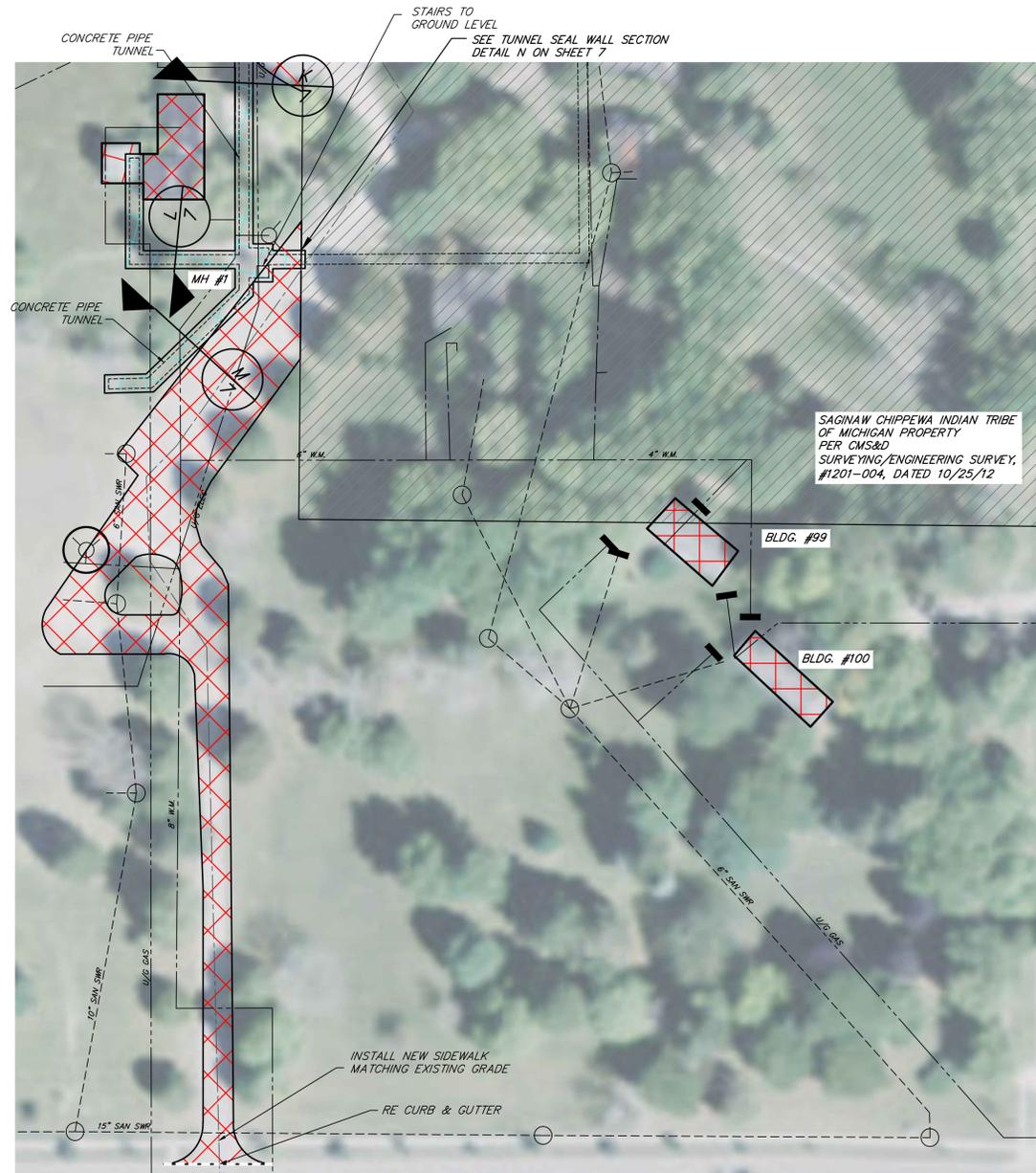
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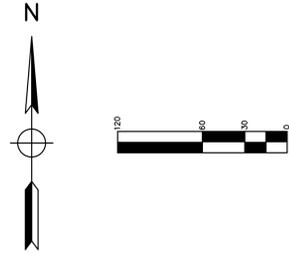
DEMOLITION AND SITE PLAN
SCALE: 1" = 60'



ENTRANCE TO DEMOLISHED BUILDINGS #4 & #40
SCALE: 1" = 60'



BUILDINGS #99 AND #100 DEMOLITION AND SITE PLAN
SCALE: 1" = 60'



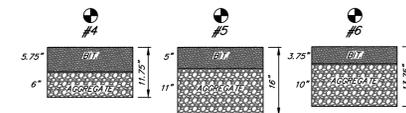
GENERAL NOTE
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- DEMOLISH & REMOVE**
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 - CONCRETE SIDEWALKS: REMOVE CONCRETE SIDEWALKS IN AREAS SHOWN. EXCAVATE AND REMOVE SUB-BASE MATERIALS, TOP SOIL AND SEED.
 - ASPHALT PARKING AREAS: REMOVE ASPHALT AREAS AS SHOWN. EXCAVATE AND REMOVE SUB-BASE MATERIALS, TOP SOIL AND SEED.
- DEMOLISH & REPLACE**
 - ASPHALT AREAS: REMOVE ASPHALT AREAS AS SHOWN. REPLACE AREAS WITH A 2" THICK "TWO TRACK" ROAD USING RECYCLED ASPHALT. REMOVE CURB AND GUTTER EXCEPT WHERE INDICATED ON DRAWINGS.
- SAWCUT LINE**
- ABANDON**
 - HYDRANT: CUT AND CAP HYDRANTS. HYDRANTS ARE TO BE CAPPED USING FLOWABLE FILL. ALL HYDRANT LOCATIONS ARE TO BE FIELD VERIFIED.



PAVEMENT CORES
SEE THIS SHEET FOR CORE LOCATIONS.

JAJ	REVISIONS PER ADDENDUM NO. 1	3-07-16
BY	REVISIONS	DATE
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<p>CITY OF MT. PLEASANT MT. PLEASANT CENTER DEMOLITION</p>		
<p>BUILDINGS #99 AND #100 DEMOLITION & SITE PLANS</p>		
<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>		
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