

6:00 p.m. Call to Order.

Moment of Silence.

Pledge of Allegiance.

Roll Call.

Proclamations:

1. Park Ranger Recognition

A. Petitions and Statements of Citizens (3 mins. per speaker).

B. Consent Agenda:

1. Approve the City Council Meeting Minutes of the:
 - a. Regular Meeting of December 3, 2024
2. Approve the Accounts Payable Register of December 17, 2024, as presented.
3. Approve a Memorandum of Understanding with River Caddis Communities to award \$5,000,000 to a workforce housing development on Shaver Road using funds appropriated by the State of Michigan.
4. Approve Contract No. 24-5479 between the Michigan Department of Transportation and the City of Portage for the reconstruction of West Milham Avenue from South 12th Street to Oakland Drive and adopt a Resolution authorizing the City Manager to sign all documents related to the contract on behalf of the city.
5. Award a one-year contract with five one-year renewals, for a total of six years, in the amount of \$388,110 to Clean Complete Janitorial Services of Kalamazoo, Michigan for cleaning services for Portage Parks Facilities and authorize the City Manager to execute all documents related to this action on behalf of the city.
6. Approve the purchase of one snow plow/dump truck/salt spreader (Western Star 47x) from D&K Truck Company of Lansing, Michigan, and upfitting services from Truck & Trailer Specialties of Dutton, Michigan at a total cost of \$327,104 and authorize the City Manager to execute all documents related to these purchases on behalf of the city.
7. Award a contract for the purchase of traffic signal poles, mast arms and assemblies to J. Ranck Electric, Incorporated, in the not-to-exceed amount of \$98,325 and authorize the City Manager to sign all documents related to the contract on behalf of the city.
8. Adopt the:
 - a. 2025 Proposed Freedom of Information Act fees,
 - b. 2025 Proposed Community Development and Building Permit fees,
 - c. 2025 Proposed Recreation and Park Facility fees, and
 - d. 2025 Proposed Special Assessment Rates.
9. Rescind the Industrial Facilities Exemption Certificate for Suite 1 of Depatie Fluid Power, Co. at 5870 S. Sprinkle Road.
10. Receive for first reading the proposed ordinance to amend the Code of Ordinances and the adopted 2021 International Property Maintenance Code, and schedule the ordinance for final adoption at the regular City Council meeting on January 21, 2025.
11. Approve the Final Preliminary Plat (engineering plans) of Oakland Farms No. 4 (Phase 5), 9840 Oakland Drive.
12. Grant the applicant Stubble and Stache the remaining City of Portage On Premises quota liquor license from the Michigan Liquor Control Commission, adopt the Local Government Approval Resolution for the desired applicant and location, and grant a refund in the amount of \$350 each to the remaining two applicants.

13. Minutes of Boards & Commissions:

- a. Human Services Board of October 3, 2024
- b. Environmental Board of October 9, 2024
- c. Board of Review of December 10, 2024

14. Materials Transmitted.

15. Calendar of Meetings:

- Senior Citizens Advisory Board: ~~Wednesday, December 18 at 2:30 p.m. at the Portage-Zhang Senior Center~~ CANCELED.
- Planning Commission: ~~Thursday, December 19 at 7:00 p.m. in the City Council Chambers.~~ CANCELED

C. Communications:

D. Public Hearings:

1. Following the public hearing, consider:

- a. approving the application from Summit Polymers, Inc. for an Industrial Tax Abatement for the property addressed at 6615 South Sprinkle Road; and
- b. adopting the Resolution for an Industrial Facilities Exemption Certificate for Summit Polymers, Inc. as part of existing District #97.

E. Regular Business Agenda:

F. Unfinished Business:

G. Council Committee Reports:

H. New Business:

I. Statements of City Council and City Manager.

Adjournment.

CITY COUNCIL MEETING MINUTES FROM DECEMBER 3, 2024

Mayor Patricia Randall called the Regular Meeting to order at 06:00 PM in the Council Chambers at Portage City Hall.

ROLL CALL: Councilmembers Chris Burns, Victor Ledbetter, Terry Urban, Jihan Young, Mayor Pro Tem Jim Pearson, and Mayor Patricia Randall were present.

ABSENT: Councilmember Nicole Miller.

ALSO PRESENT: City Manager Pat McGinnis, Chief Development Officer Peter Dame, City Attorney Catherine Kaufman, and City Clerk Erica Eklov.

At the request of Mayor Randall, the audience observed a moment of silence to reflect on Dr. Romeo Phillips and his contributions to the community. Following the moment of silence, the City Council recited the Pledge of Allegiance, as led by Boy Scout Troop 211 from St. Monica Church.

PROCLAMATIONS:

Resolution of Respect for Dr. Romeo Phillips: Councilmember Ledbetter read the Resolution of Respect. Following the reading, Dr. Phillips thanked the Council for the recognition, and Councilmembers Urban and Ledbetter and Mayor Randall gave personalized recognitions of Dr. Phillips.

PETITIONS AND STATEMENTS OF CITIZENS:

1. Alan Loveridge (23965 88th Avenue, Marcellus) spoke regarding suggestions for reducing food waste.
2. Judy Kangas Salters (9240 Portage Road) relayed several concerns regarding the Sugarloaf Drain culvert, the Lakeview Park boardwalk, and trash littering the West Lake Drive-In public space. She also asked for additional information regarding the public hearing.

CONSENT AGENDA: Mayor Randall shared where the public can access the meeting agenda and asked if any would like an item removed from the Consent Agenda. Motion by Pearson, seconded by Ledbetter, to approve the Consent Agenda as presented. Upon a roll call vote, motion carried 6 to 0.

Approval of Minutes: Motion by Pearson, seconded by Ledbetter, to approve the City Council Meeting Minutes of the Committee of the Whole, as well as the Regular Meeting of November 19, 2024. Upon a roll call vote, motion carried 6 to 0.

Accounts Payable Register: Motion by Pearson, seconded by Ledbetter, to approve the Accounts Payable Register of December 3, 2024, as presented. Upon a roll call vote, motion carried 6 to 0.

Industrial Tax Abatement Application - Summit Polymers, Inc. at 6615 South Sprinkle Road: Motion by Pearson, seconded by Ledbetter, to receive the application from Summit Polymers, Inc. for an Industrial Tax Abatement for the property addressed at 6615 South Sprinkle Road; adopt the Resolution to include Summit Polymers, Inc. as part of existing District #97; and set a public hearing on the proposed Industrial Facilities Exemption Certificate on December 17, 2024. Upon a roll call vote, motion carried 6 to 0.

Amend the General Appropriations Act (Budget): Motion by Pearson, seconded by Ledbetter, to amend the General Appropriations Act for the fiscal year ending June 30, 2025. Upon a roll call vote, motion carried 6 to 0.

Adoption of Reimbursement Resolution: Motion by Pearson, seconded by Ledbetter, to adopt a resolution to authorize the reimbursement of expenses from bond proceeds, not to exceed \$4,000,000, for capital improvement projects expensed in Fiscal Year 2024-2025 and authorize the City Manager to execute all documents related to this action on behalf of the city. Upon a roll call vote, motion carried 6 to 0.

City Manager Employment Agreement Extension: Motion by Pearson, seconded by Ledbetter, to approve a three-year extension to the Employment Agreement with Patrick McGinnis and authorize the Mayor to execute the agreement. Upon a roll call vote, motion carried 6 to 0.

Minutes of Boards & Commissions: Motion by Pearson, seconded by Ledbetter, to receive the minutes of the Senior Citizens Advisory Board of October 16, 2024; and Planning Commission of November 7, 2024. Upon a roll call vote, motion carried 6 to 0.

Calendar of Meetings: Motion by Pearson, seconded by Ledbetter, to receive the Calendar of Meetings as presented. Upon a roll call vote, motion carried 6 to 0.

PUBLIC HEARINGS:

Lake Center Commercial Corridor Mixed-Use Zoning Districts: Following the introduction by the Mayor, consultant Paul Lippens from McKenna & Associates presented the proposed rezoning and development plan for the Lake Center District area and detailed the process for the development.

At the request of the Mayor, Mayor Pro Tem Pearson spoke on behalf of his position on the Lake Center District Stakeholder Committee. He relayed a brief history of the area and the background to the Committee. Mayor Pro Tem Pearson described the public input sessions and updates to the proposed plans based off public feedback.

Councilmember Urban asked Mr. Lippens to further elaborate regarding minimum commercial parking space allocations. Mr. Lippens was unable to answer off-hand. Councilmember Urban expressed concerns about the amount of parking spaces allocated for commercial vehicles as too few. Chief Development Officer (CDO) Dame responded that it was very minimal, noting that the city's current standards were way too high. He then relayed that the city guidelines were only establishing a minimum and that developers would better understand individual parking needs and apply for more for new projects, as well as move toward a shared parking model along with public parking options, referring to the City of Kalamazoo. Councilmember Urban expressed contention about the current proposal and a lack of parking allocated for business employees. Councilmember Burns asked for clarification regarding the plan of action for the current and January 7th meeting. He then asked about nonconforming uses and their permissions. Mr. Lippens responded with the specifics of the legal nonconforming uses, noting the proposed ordinance was more lenient about vacant non-conforming uses than the remainder of the city ordinances.

Mayor Pro Tem Pearson explained the Stakeholder Committee's approach to extensively review non-conforming, vacant locations. Councilmember Burns then asked about an appeals process should a business seek to alter the property in an unpermitted way.. City Manager McGinnis and City Attorney Kaufman responded with the proper approach. Mr. Lippens also noted that the purpose is to allow current businesses to continue operating, but amend the districts over time to align with the designed uses.

Councilmember Urban asked for clarification regarding the expansion of a non-conforming use. CDO Dame responded that a non-conforming use cannot alter its existing footprint.

Councilmember Urban then asked if a non-conforming building was damaged or destroyed and whether it could be rebuilt. CDO Dame confirmed that a non-conforming use was permitted to be rebuilt as long as it matched the prior building footprint and site plan.

Councilmember Burns then asked about maintenance on a non-conforming use. Mr. Lippens confirmed maintenance was permitted but not expansion.

Mayor Randall summarized the goal of the plan, noting the current funding allocated for the project toward redefining the area. Mayor Randall opened the public hearing at 7:10 PM.

1. Judy Kangas Salters (9240 Portage Road) began with comments regarding parking suggestions. She then spoke regarding changes to the proposed sidewalk routes, and suggested the installation of a multi-purpose lane for the Lake Center District school as well as a pedestrian island adjacent to Lakeview Park that served alongside her proposed multi-purpose lanes.
 - a. CDO Dame invited Ms. Kangas Salters to the public input meetings for the Portage Road design process slated for January 2025.
2. Blake Crocker, Attorney on behalf of Crystal Car Wash (8387 Portage Road), expressed concern about the limits on non-conforming uses for businesses, highlighting the organic nature of business serving the public's needs and interests may require them to alter their footprints and designs in ways beyond what the proposed ordinance permitted. He relayed that his client had invested in the location for the past 18 years with the expectation of it as a business-zoned district. Mr. Crocker stated that his client is not opposed to the project but wants to fit within the proposal and not be pushed out. He highlighted recent meetings with city staff that have been positive and hoped the constructive efforts would continue.
 - a. Mayor Randall and City Manager McGinnis responded to Mr. Crocker and his client's concerns. City Manager McGinnis relayed the long-term plan for the area, and encouraged all interested parties to come to the City Manager's Office with concerns in the interim.

As there were no additional comments or discussion, motion by Pearson, seconded by Burns, to adjourn the public hearing regarding Rezoning Ordinance #24/25-3 to the January 7, 2025 regular City Council meeting for continuation at that time. Upon a roll call vote, motion carried 6 to 0.

REGULAR BUSINESS AGENDA:

Closed Session - FOIA Appeal: Mayor Randall introduced the item, noting the receipt of a withdrawal of the appeal by the petitioner shortly before the meeting. She then asked the City Attorney whether official action by the Council was still required. Attorney Kaufman responded that she had decided the Council should officially vote on releasing the material. Councilmember Urban disagreed with Attorney Kaufman, noting he was uncomfortable voting on documents and a matter he was not fully versed in. Attorney Kaufman replied that the Council's receipt of the written withdrawal from the requester would suffice. There was no additional action or discussion.

COUNCIL COMMITTEE REPORTS: Councilmember Urban provided an update regarding his attendance at a recent Eagle Scout Court of Honor ceremony on December 1, on behalf of the Mayor. Motion by Burns, seconded by Young, to receive the Council Committee Reports as presented. Upon a voice vote, motion carried 6 to 0.

STATEMENTS OF CITY COUNCIL AND CITY MANAGER: Councilmember Urban advised of the city's upcoming annual tree lighting ceremony, relaying how his daughter had performed the lighting as an infant 18 years prior. He continued to look forward to the ceremony. Councilmember Urban closed with a reminder to check on neighbors during the winter weather.

Councilmember Ledbetter thanked city staff for assembling the Resolution of Respect for Dr. Phillips following the Thanksgiving holiday to acknowledge Dr. Phillips' significance, especially from his personal regard as a Black Councilperson, highlighting Councilmember Young as well. He encouraged the public to support the increase of diversity of the Council as representatives of the city, stating he was happy with the progress to date, and noted there would be a reception honoring Dr. Phillips at the Douglass Community Center in Kalamazoo on December 5. He closed with a reminder of safety in light of the forecasted winter weather.

Councilmember Young provided a reminder of the city's annual "Decked Out Home" holiday home decorating contest in collaboration with the sponsorship by Consumers Energy and encouraged residents to participate in decorating and voting. She then detailed the Yiftee eGift Card service titled "Portage Pocket Pay," partnering with various local Portage businesses to purchase gift cards for local services. She reminded drivers to provide extra space to snowplows and school buses.

Councilmember Burns thanked staff for their efforts on the Lake Center District rezoning ordinance amendments. He then congratulated the University of Michigan for its recent football win over Ohio State University.

City Manager McGinnis began with a follow-up mention of the Yiftee program. He then announced the Portage partnership with My Green Michigan for a food compost pilot program launching in 2025. City Manager McGinnis closed with a reminder about the Portage Business Directory, noting it had achieved 100 business listings.

Mayor Pro Tem Pearson stated he had nothing to add to the existing updates.

Mayor Randall highlighted the December Portager newsletter articles and upcoming programs, as well as events, in addition to the Mayor's column. She expounded upon safe winter travels and the holiday season. After a brief reminder regarding overnight parking during winter, Mayor Randall closed with an encouragement of partnership with businesses and efforts in the Lake Center District zoning update.

ADJOURNMENT: Mayor Randall adjourned the meeting at 7:42 PM.

Erica L. Eklov, City Clerk

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Accounts Payable Register

SUPPORTING PERSONNEL: Lauren VanderVeen, Finance Director

ACTION RECOMMENDED: Approve the Accounts Payable Register of December 17, 2024, as presented.

The City Council reviews and approves the bi-weekly Accounts Payable Register which includes automated clearing house payments, paper checks, auto-pay payments, electronic payments and credit card payments. The attached Accounts Payable Register covers the period November 24, 2024, through December 07, 2024, and notes \$1,402,752.65 in automated clearing house payments, \$1,095,944.60 in paper checks, \$143,282.85 in auto-pay payments, \$1,204,783.33 in electronic payments and \$8,187.18 (November) in credit card payments for a grand total of \$3,854,950.61.

FUNDING: Not Applicable

Attachments: 1. Accounts Payable Register of December 17, 2024

ACCOUNTS PAYABLE REGISTER
Check Dates From: 11/24/2024 to 12/07/2024

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Check Type: ACH Transaction

Check Date	Check	Vendor Name	Description	Amount
11/27/2024	22982(A)	AMERICAN VILLAGE BUILDERS, INC	STANWOOD CROSSINGS	61,673.56
11/27/2024	22983(A)	BALL, JENNY	REIMBURSEMENT-OFFICE SUPPLIES	12.07
12/06/2024	22984(A)	A I S CONSTRUCTION EQUIP. CO.	TINK BLADES	4,496.10
12/06/2024	22985(A)	ABONMARCHE CONSULTANTS, INC	ENGINEERING SERVICES - SHAVER ROAD	2,520.00
12/06/2024	22986(A)	ALL CITY MANAGEMENT SERVICES, INC.	CROSSING GUARD CONTRACT	4,440.60
12/06/2024	22987(A)	ALRO STEEL CORPORATION	TRAILER REBUILD MATERIAL/SUPPLIES	93.75
12/06/2024	22988(A)	AMAZON.COM SALES, INC.	LIVERY HOL ITEMS-PR; PROG SUP-PZSC; HOL LGTS-SP	4,596.48
12/06/2024	22989(A)	VOID		0.00
12/06/2024	22990(A)	AMERICAN ARBOR LLC	TREE REMOVAL	1,220.00
12/06/2024	22991(A)	AMERICAN SAFETY & FIRST AID	FIRST AID SERVICES	1,313.78
12/06/2024	22992(A)	AMERICAN SOCIETY OF EMPLOYERS INC.	MEMBERSHIP DUES	1,436.00
12/06/2024	22993(A)	ASCENSION BORGESS HOSPITAL	PHYSICAL EXAM	90.00
12/06/2024	22994(A)	B S & A SOFTWARE	TRAINING FOR BUILDING DEPARTMENT	1,200.00
12/06/2024	22995(A)	BALKEMA CONSTRUCTION, INC.	LEXINGTON GREEN PARK CONSTRUCTION	172,457.20
12/06/2024	22996(A)	BARRON, DIANE E	PZSC TAP DANCE INSTRUCTOR	600.00
12/06/2024	22997(A)	BROWNELL'S INCORPORATED	MISC POLICE SUPPLIES	822.69
12/06/2024	22998(A)	C D W GOVERNMENT, INC.	LAPTOPS, FIRE TECH TR, WEBCAMS	7,693.43
12/06/2024	22999(A)	CAPSTONE HOME IMPROVEMENT, LLC	EMER KAL CO - REPLACE WALLS/TRIM	3,717.00
12/06/2024	23000(A)	CHARTER COMMUNICATIONS	INTERNET/VOICE	138.07
12/06/2024	23001(A)	COLLIER, MICHAEL	REIMB - ACCREDITATION MEETING REFRESHMENTS	69.37
12/06/2024	23002(A)	COX, ELISA ROSE	PZSC FITNESS INSTRUCTOR ORIENTATIONS	390.00
12/06/2024	23003(A)	CROWN TROPHY	NAME PLATES TAGS NEW EMPLOYEE	50.00
12/06/2024	23004(A)	DATA CONSTRUCTS LLC	DNS FAILOVER SERVICES	80.50
12/06/2024	23005(A)	DEPATIE FLUID POWER CO., INC.	HYDRAULIC REPAIRS	452.13
12/06/2024	23006(A)	EARLE, SHELIA L	PZSC FITNESS INSTRUCTOR/TRAINER	495.00
12/06/2024	23007(A)	ENGINEERED PROTECTION SYSTEMS, INC.	ALARM MONITORING	1,019.70
12/06/2024	23008(A)	ESCAPE FIRE & SAFETY SERVICES, INC.	TRAILER REBUILD MATERIAL/SUPPLIES	4,365.00
12/06/2024	23009(A)	GORDON WATER SYSTEMS	WATER SERVICES	40.54
12/06/2024	23010(A)	GRIFFIN PEST SOLUTIONS	PEST CONTROL SERVICES	477.00
12/06/2024	23011(A)	HURLEY & STEWART, LLC	STORM DRAINAGE IMPROVEMENTS PROJECT	3,833.25
12/06/2024	23012(A)	INSIGHT PUBLIC SECTOR, INC.	VEEAM RENEWAL LICENSE	9,210.69
12/06/2024	23013(A)	INTEGRAL PARTNERS LLC	ENGINEERING SERVICES-HAMPTON CREEK BOG	460.00
12/06/2024	23014(A)	INTERNATIONAL CODE COUNCIL, INC	IPMC 2021 BOOKS	131.50

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12/06/2024	23015(A)	J & H OIL COMPANY	BULK FUEL DELIVERY	22,671.49
12/06/2024	23016(A)	JANSSEN, AMANDA	MEAL REIMB - COUNCIL MEETINGS	269.64
12/06/2024	23017(A)	KALAMAZOO PICKLEBALL	PZSC PICKLEBALL CLINICS	110.00
12/06/2024	23018(A)	KURZAVA, MATTHEW STEPHEN	PZSC TAI CHI & PARKINSON'S INSTRUCTOR	360.00
12/06/2024	23019(A)	LANDS END	IC/RECORDS UNIFORMS	100.32
12/06/2024	23020(A)	LAWSON PRODUCTS, INC	REPAIR/MAINTENANCE SUPPLIES	8.40
12/06/2024	23021(A)	LEE, KELLY	MILEAGE PORTION FOR JURY DUTY SERVICE	12.00
12/06/2024	23022(A)	LOWE'S HOME CENTER	TRAD HOL LIGHTS, SUPPLIES, DECORATIONS	2,021.25
12/06/2024	23023(A)	LUNGHAMER FORD OF OWOSSO, LLC	FORD 2025 POLICE INTERCEPTOR SUV	49,046.00
12/06/2024	23024(A)	MACQUEEN EQUIPMENT LLC	SWEEPER REPAIR/MAINTENANCE	221.43
12/06/2024	23025(A)	MAPLE HILL SPRINKLING, INC.	SPRINKLER REPAIRS	325.00
12/06/2024	23026(A)	MICHIGAN OFFICE ENVIRONMENTS	OFFICE FURNITURE	857.66
12/06/2024	23027(A)	MICHIGAN PAVING & MATERIALS CO.	MILL & FILL	775,868.87
12/06/2024	23028(A)	MOTOR PARTS AND EQUIPMENT CORP	EQUIP REPAIR/MAINTENANCE SUPPLIES	3,470.47
12/06/2024	23029(A)	VOID		0.00
12/06/2024	23030(A)	NORG, STEPHANIE	REIMB-SESC EXAM & CERTIFICATION	285.00
12/06/2024	23031(A)	NYE UNIFORMS	MISC UNIFORMS	485.99
12/06/2024	23032(A)	O'REILLY AUTO PARTS	MISC AUTO SUPPLIES	204.50
12/06/2024	23033(A)	OFF THE CUFF CATERING	PZSC CATERING - MULT EVENTS	4,984.00
12/06/2024	23034(A)	ONSTAFF GROUP SERVICES LLC	TEMPORARY EMPLOYEE SERVICES	12,005.04
12/06/2024	23035(A)	PEERLESS-MIDWEST, INC.	MILHAM #1 WELL-PUMP PURCHASE & INSTALL	41,250.00
12/06/2024	23036(A)	PETERS CONSTRUCTION CO.	STORM SEWER MODIFICATIONS/REPAIRS-MULT LOCS	134,004.74
12/06/2024	23037(A)	PHILLIPS, KIMBERLY	PZSC TRAVEL REIMBURSEMENT REQUEST	247.02
12/06/2024	23038(A)	PLASKO, PATRICIA MARIE	PZSC BEMOVED INSTRUCTOR	325.00
12/06/2024	23039(A)	PORTAGE FIREFIGHTERS	IAFF UNION DUES FOR NOVEMBER 2024	2,010.00
12/06/2024	23040(A)	PORTAGE POLICE OFFICERS ASSOC	PPOA UNION DUES FOR NOVEMBER 2024	700.00
12/06/2024	23041(A)	POWERDMS, INC.	POWERREADY SUBSCRIPTION	3,150.00
12/06/2024	23042(A)	PRINTING SERVICES INC	PRINTING SERVICES	514.50
12/06/2024	23043(A)	R W LAPINE INC.	REMOVAL & INSTALLATION OF SINKS	3,003.00
12/06/2024	23044(A)	ROE-COMM, INC.	MISC RADIO SERVICES	2,530.00
12/06/2024	23045(A)	ROSE, SANDRA K.	PZSC CARDIO DRUMMING INSTRUCTOR	400.00
12/06/2024	23046(A)	SAFETY SERVICES, INC.	HI-VIS UNIFORM SHIRTS & SAFETY SUPPLIES	142.83
12/06/2024	23047(A)	SCHUMACHER, MICHAEL	PER DIEM-FIRST LINE SUPERVISION TR	193.50
12/06/2024	23048(A)	SUNBELT RENTALS, INC.	SANDBLASTER RENTAL	1,505.20

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12/06/2024	23049(A)	TARGETSOLUTIONS LEARNING LLC	GUARDIAN TRACKING ANNUAL RENEWAL	3,990.40
12/06/2024	23050(A)	TMK WORLDWIDE, LLC	METER SERVICE	670.55
12/06/2024	23051(A)	UNIFIRST CORPORATION	HALLWAY CARPET RENTAL	166.73
12/06/2024	23052(A)	UNITED AUTO. IMPLEMENT WORKERS 2290	UAW UNION DUES FOR NOVEMBER 2024	983.00
12/06/2024	23053(A)	VIRIDIS DESIGN GROUP	A&E EAST CENTRAL TRAIL	6,600.00
12/06/2024	23054(A)	WARNER OIL COMPANY INC	OIL DRY & GREASE, DIESEL EXHAUST FLUID	1,397.25
12/06/2024	23055(A)	WIGHTMAN	ENGINEERING SVCS - MULT LOCS	36,066.46
Total ACH				1,402,752.65

Check Type: Paper

11/27/2024	329320	CITY OF PORTAGE	2024 SUMMER TAX PARCEL	1,149.64
12/06/2024	329321	ALLEGRA PRINT & IMAGING	PRINTING SERVICES	1,466.00
12/06/2024	329322	ALLIED MECHANICAL SERVICE	CITY HALL & FIRE HVAC SVC CALLS	928.00
12/06/2024	329323	ALTA EQUIPMENT CO.	LOADER REPAIR - CYLINDER PIN SEAL	2,063.04
12/06/2024	329324	BARRON, DAVID	SOCIAL DANCING FOR COUPLES	150.00
12/06/2024	329325	CITY EMPLOYEE	REISSUE STALE CHECKS	792.90
12/06/2024	329326	BLAIN SUPPLY, INC.	REPAIR & MAINTENANCE SUPPLIES	23.98
12/06/2024	329327	BRONSON HEALTHCARE GROUP	LEGAL BLOOD DRAWS	200.00
12/06/2024	329328	CAPITOL STRATEGIES, LLC	CONSULTING SERVICES	6,000.00
12/06/2024	329329	CITY OF KALAMAZOO TREASURER	SANITARY SEWER CHARGES	454,400.00
12/06/2024	329330	CITY OF PORTAGE	2024 WINTER TAX PARCEL - MULT LOCS	625.01
12/06/2024	329331	COMPLETE TEAM OUTFITTER, INC.	RANGER UNIFORMS	1,176.00
12/06/2024	329332	CORELOGIC	2024 SUMMER TAX REFUND DUE PRE CHANGE	3,862.14
12/06/2024	329333	CRIPPS FONTAINE EXCAVATING, INC.	TV ABANDONED GAS MAIN	320.00
12/06/2024	329334	CT ELECTRICAL SERVICES, INC.	PORTABLE GENERATOR - INSTALL CAM LOCK CONN	9,989.00
12/06/2024	329335	D L GALLIVAN INC.	COPY MACHINE USAGE CHARGES	205.89
12/06/2024	329336	DAVIS, BRITTANY	GRAIN ELEVATOR DEPOSIT REFUND	150.00
12/06/2024	329337	DEVON TITLE AGENCY	OVER PMT FINAL WATER/SEWER BILL	20.38
12/06/2024	329338	DIRECT FITNESS SOLUTIONS, LLC	PZSC EQUIPMENT REPAIR MAINTENANCE	440.22
12/06/2024	329339	DTN, LLC	WEATHER SERVICES	1,171.80
12/06/2024	329340	EDWARDS INDUSTRIAL SALES, INC.	SHOP SUPPLIES	175.71
12/06/2024	329341	EMERGENCY VEHICLE PRODUCTS	FIRE APPARATUS MAINT	1,045.70
12/06/2024	329342	ENVIRONMENTAL RESOURCES GROUP, LLC	STORM WATER MONITORING PROGRAM	15,854.26
12/06/2024	329343	FADER EQUIPMENT, INC.	HILTI DRILL BIT & BATTERIES	7.16

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Check Date	Check	Vendor Name	Description	Amount
12/06/2024	329344	FERGUSON US HOLDINGS, INC	WATER METER READING SUBSCRIPTION	1,428.24
12/06/2024	329345	GALLS PARENT HOLDINGS, LLC	RANGER UNIFORMS	146.99
12/06/2024	329346	GOLLIN, KENNEDY	TRAD HOLIDAY HORSE & CARRIAGE	1,100.00
12/06/2024	329347	GONZALEZ, ALEJANDRO	OVER PMT FINAL WATER/SEWER BILL	99.88
12/06/2024	329348	GORDON FOOD SERVICE	PZSC OPERATING & PROGRAM SUPPLIES	283.02
12/06/2024	329349	GRACE, LISA	TRAD HOLIDAY MRS. CLAUS	200.00
12/06/2024	329350	GREATER KALAMAZOO FOP LODGE 98	FOP PORTION OF PPOA UNION DUES FOR NOV	3,405.04
12/06/2024	329351	H & H PROPERTY MAINTENANCE, LLC	PZSC SNOW REMOVAL SERVICES	4,087.50
12/06/2024	329352	HAT WORLD, INC	FIRE UNIFORMS	1,149.00
12/06/2024	329353	HEALY, RENEE	PZSC RENTAL SECURITY DEP REFUND 11.18.24	250.00
12/06/2024	329354	HEINEKAN, MARK	TRAD HOLIDAY SANTA CLAUS	225.00
12/06/2024	329355	HOCKEY SERVICES	SKATE SHARPENING	145.00
12/06/2024	329356	HOME DEPOT	REPAIR & MAINTENANCE SUPPLIES	1,226.99
12/06/2024	329357	HOOLEY, DEREK	TRAD HOLIDAY PETTING FARM	900.00
12/06/2024	329358	IBISON CONCESSIONS LLC	TRAD HOLIDAY HOT CHOCOLATE AND CIDER	875.00
12/06/2024	329359	ICE CREATIONS	TRAD HOLIDAY ICE CARVINGS	850.00
12/06/2024	329360	IN-HOUSE SOLUTIONS, LLC	FIELD TRAINING OFFICER COURSE REG	2,400.00
12/06/2024	329361	INSTITUTE OF TRANSP. ENGINEERS	ITE MEMBERSHIP	345.00
12/06/2024	329362	IRISH ROOFING & EXTERIORS	MI NEIGHBORHOOD - REPLACE ROOFING	16,500.00
12/06/2024	329363	KALAMAZOO COUNTY HEALTH & COMMUNITY	HOUSEHOLD HAZARDOUS WASTE PROGRAM	6,546.62
12/06/2024	329364	KALAMAZOO COUNTY TREASURER	OAKBROOK JULY - DEC 2024 MOBILE HOME TAX	1,710.00
12/06/2024	329365	KALAMAZOO VALLEY COMMUNITY COL	PZSC PROGRAM EVENT	625.00
12/06/2024	329366	LAKELAND ASPHALT CORP.	MILL AND FILL LOCAL/MAJORS	7,436.25
12/06/2024	329367	LANDSCAPE FORMS	LAKEVIEW PARK BOARDWALK FURNITURE	30,492.06
12/06/2024	329368	LARCINESE, WYATT	UST A & B OPERATOR SERVICES	175.00
12/06/2024	329369	LERETA LLC	2024 SUMMER TAX REFUND DUE MTT	767.21
12/06/2024	329370	LEVIN, VERONICA B	PZSC ART INSTRUCTOR	350.00
12/06/2024	329371	MACALLISTER MACHINERY CO., INC.	AERIAL LIFT RENTAL	2,524.00
12/06/2024	329372	MCDONALD'S TOWING & RESCUE, INC.	POLICE TOWING SERVICES	65.00
12/06/2024	329373	MCMAHAN, WARREN	PZSC PROGRAM REFUND	80.00
12/06/2024	329374	MENARDS	BUILDING MAINTENANCE SUPS	43.42
12/06/2024	329375	METHODICAL MOVES	ON-SITE POWER WASHING/DEGREASING	748.00
12/06/2024	329376	MICHIGAN OFFICE ENVIRONMENTS	PZSC RENTAL SECURITY DEPOSIT 11.25.24	250.00
12/06/2024	329377	MID-AMERICA APPRAISAL CO.	PROPERTY APPRAISAL	760.00

ACCOUNTS PAYABLE REGISTER
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Check Date	Check	Vendor Name	Description	Amount
12/06/2024	329378	MORAN, KRYSTAL	SCHRIER BLD DEPOSIT REFUND	150.00
12/06/2024	329379	NEXGEN CONSTRUCTION, LLC	EAST CENTRAL TRAIL CONSTRUCTION	394,907.68
12/06/2024	329380	NORMAN, JON D.	OVER PMT FINAL WATER/SEWER BILL	81.22
12/06/2024	329381	CITY EMPLOYEE	REISSUE REJECTED DIRECT DEPOSIT	19.15
12/06/2024	329382	OFFICE DEPOT, INC.	OFFICE SUPPLIES	455.74
12/06/2024	329383	OMEGA RAIL MANAGEMENT, INC.	GRAND ELK RR RENTAL AGREEMENT	1,206.52
12/06/2024	329384	ON DUTY GEAR, LLC	BP EXPIRED VEST REPLACEMENTS	15,300.00
12/06/2024	329385	PACE SYSTEMS, INC.	RENEWAL-PACE SCHEDULE SOFTWARE	6,350.00
12/06/2024	329386	PETTY CASH-ANTONIA ALEMAN	REPLENISHMENT CHECK	442.74
12/06/2024	329387	PETTY CASH-DANA FAIR	REPLENISHMENT CHECK	841.07
12/06/2024	329388	PETTY CASH-MEGAN HUBER	REPLENISHMENT CHECK	1,475.97
12/06/2024	329389	PORTAGE NORTHERN HIGH SCHOOL	TRAD HOLIDAY PNHS CHOIR	200.00
12/06/2024	329390	PORTAGE ROTARY	ROTARY QTRLY LUNCH FEE	200.00
12/06/2024	329391	PRINCE OF PEACE LUTHERAN CHURCH	PRECINCT RENTAL FOR 11/05/2024	100.00
12/06/2024	329392	PROCLAMATION BRASS	TRAD HOLIDAY PROCLAMATION BRASS BAND	200.00
12/06/2024	329393	RATH, JOHN R.	GLASSBLOWING WORKSHOP HOLIDAY ORNAMENTS	2,560.00
12/06/2024	329394	RATHCO SAFETY SUPPLY, INC.	TRAFFIC CONTROL SERVICES	1,852.00
12/06/2024	329395	REAM ENTERPRISES LLC	TRAD HOLIDAY SANTA PHOTOGRAPHER	650.00
12/06/2024	329396	ROAD COMMISSION OF KALAMAZOO COUNTY	ENERGY & MAINTENANCE	1,959.61
12/06/2024	329397	ROMENCE GARDENS, INC	QUIET GARDEN PROJECT	19,832.07
12/06/2024	329398	ROSSIO, STEVEN ADAM	TRAD HOLIDAY MC FOR EVENT	150.00
12/06/2024	329399	ROSSOW, NEAL ALBERT	FOIA REGISTRATION	410.00
12/06/2024	329400	RUCKERT, ADAM	SCHRIER BLD DEPOSIT REFUND	150.00
12/06/2024	329401	SCHOFIELD, IAN A.	HOOD VINYL INSTALLATION	1,846.00
12/06/2024	329402	SCOTT, ROD	KAL CO-REPLACE COLUMNS, WINDOW & DECK	5,450.00
12/06/2024	329403	SHATTUCK, ROCKY	GRAIN ELEVATOR DEPOSIT REFUND	150.00
12/06/2024	329404	SIGN SHOP OF WESTERN MICHIGAN	STAFFING BOARD MAGNETS	72.00
12/06/2024	329405	SNAP-ON INDUSTRIAL	TRITON-D10 RENEWAL DATA PLAN	1,572.97
12/06/2024	329406	SPECTRUM PRINTERS, INC.	ELECTION MATERIALS	4,303.50
12/06/2024	329407	SPIRIT SHOPPE, INC.	POLICE PATROL HATS/EMBROIDERY, FIRE UNIFORMS	926.50
12/06/2024	329408	STAIRHIME, AMIE	SCHRIER BLD DEPOSIT REFUND	150.00
12/06/2024	329409	STANTEC CONSULTING SERVICES INC	JAPANESE KNOTWEED TREATMENT	2,934.00
12/06/2024	329410	T-MOBILE USA INC	MISC CELL PHONE CHARGES	3,326.46
12/06/2024	329411	TRACY, DENNIS	REIMBURSEMENT FOR IRRIGATION DAMAGES	600.00

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Check Date	Check	Vendor Name	Description	Amount
12/06/2024	329412	ULINE, INC.	PZSC OPERATING/JANITORIAL SUPPLIES	949.86
12/06/2024	329413	UNITED PARCEL SERVICE	UPS WEEKLY	8.51
12/06/2024	329414	UNITED STATES TREASURY	IRS FORM 720 - PCORI FEE YEAR ENDED 6/30	219.00
12/06/2024	329415	UNITED WAY OF NORTHWEST MICHIGAN	TRISHARE	2,311.32
12/06/2024	329416	US HYD LLC	TINK CYLINDER REBUILDS	518.68
12/06/2024	329417	WALKER, VERA	PZSC PROGRAM REFUND	32.00
12/06/2024	329418	WASHCO, LLC	GRAFFITI REMOVAL	375.00
12/06/2024	329419	WEATHERTAP	ANNUAL SUBSCRIPTION	99.95
12/06/2024	329420	WEST HILLS ATHLETIC CLUB	FIRE FITNESS PROGRAM	4,800.00
12/06/2024	329421	WILLIAMS & WORKS	ENGINEERING SERVICES - MULT LOCS	25,399.03
Total Paper Checks				1,095,944.60
Check Type: Auto-Pay Payments				
11/27/2024		CONSUMERS ENERGY	GAS-ELECTRIC	183.69
11/29/2024		CONSUMERS ENERGY	GAS-ELECTRIC	557.60
11/29/2024		CITY OF PORTAGE	WATER/SEWER BILLING	426.05
11/29/2024		BLUE CROSS/BLUE SHIELD	HEALTH INSURANCE	8,821.91
11/29/2024		MISSIONSQUARE	EMPLOYEE RETIREMENT WITHHOLDINGS	49,103.11
12/02/2024		CONSUMERS ENERGY	GAS-ELECTRIC	10,710.05
12/03/2024		CARD CONNECT	PROCESSING FEES	673.22
12/04/2024		CITY OF PORTAGE	WATER/SEWER BILLING	13,476.68
12/05/2024		CONSUMERS ENERGY	GAS-ELECTRIC	59,330.54
Total Auto-Pay Payments				143,282.85
Check Type: Electronic Payments				
11/26/2024		SBF	POSTAGE - WINTER TAX BILLS	8,990.63
11/27/2024		MULTIPLE	DPP TAX DISBURSEMENT 11/15/24	3,552.12
11/27/2024		SBF	POSTAGE - WATER/SEWER BILLS	2,478.04
11/29/2024		HUNTINGTON NATIONAL BANK	DEBT SERVICE PAYMENTS	1,141,601.90
11/29/2024		MULTIPLE	WEEKLY TAX DISBURSEMENT 11/22/24	28,391.42
12/02/2024		ASU GROUP	WORKERS COMP FUNDING	19,769.22
Total Electronic Payments				1,204,783.33

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Check Date	Check	Vendor Name	Description	Amount
Check Type: Credit Card Payments				
11/01/2024		MICHAELS.COM	SUPPLIES FOR PARKS EVENT	26.19
11/01/2024		IN BOUCK CORPORATION	POLICE TRAINING REGISTRATION	275.00
11/05/2024		FRANCOS ITALIAN PIZZER	CLERK STAFF MEALS FOR ELECTION	86.89
11/06/2024		TST PITA WAY - PORTAGE	CLERK STAFF MEALS FOR ELECTION	115.95
11/07/2024		THE WEBSTaurant STORE INC	SENIOR CENTER KITCHEN SUPPLIES	258.71
11/08/2024		MMTA	TREASURY ANNUAL MEMBERSHIP DUES	198.00
11/08/2024		SAMSClub.COM	CHRISTMAS DECORATIONS FOR PARKS EVENT	1,218.11
11/11/2024		HOLIDAY INN EXPRESS	HOTEL TAX REFUND	(15.33)
11/13/2024		GILMORE US	COM DEV EDUCATIONAL RESOURCES	125.00
11/13/2024		SP BESTCHOICEPRODUCT	CHRISTMAS DECORATIONS FOR PARKS EVENT	1,793.55
11/13/2024		HILTON GARDEN INN	SENIOR CENTER CONFERENCE HOTEL STAY	433.44
11/18/2024		GOVERNMENT FINANCE OFFICE	FINANCE ANNUAL MEMBERSHIP DUES	305.00
11/18/2024		GOVERNMENT FINANCE OFFICE	FINANCE TRAINING REGISTRATION	75.00
11/18/2024		IMAGIN INC	COM DEV ANNUAL MEMBERSHIP DUES	100.00
11/18/2024		HILTON GARDEN INN	SENIOR CENTER CONFERENCE HOTEL STAY	577.92
11/19/2024		WWW.MICHIGANCLERKS.ORG	CLERK ANNUAL MEMBERSHIP DUES	200.00
11/21/2024		FSP KALAMAZOO HUMAN RESOU	HUMAN RESOURCES ANNUAL MEMBERSHIP DUES	100.00
11/21/2024		FREE CONFERENCE CALL GLOB	IT CONFERENCE CALL CHARGES	22.20
11/22/2024		RELYCO SALES INC	ACCOUNTS PAYABLE CHECK STOCK	240.24
11/22/2024		SOCIETYFORHUMANRESOURCE	HUMAN RESOURCES ANNUAL MEMBERSHIP DUES	264.00
11/25/2024		RELYCO SALES INC	ACCOUNTS PAYABLE CHECK STOCK TAX REFUND	(12.36)
11/26/2024		GILMORE US	COM DEV EDUCATIONAL RESOURCES	147.68
11/27/2024		GIS CERTIFICATION INSTITU	COM DEV ANNUAL MEMBERSHIP DUES	285.00
11/29/2024		SQ NATIONAL TACTICAL OFF	POLICE TRAINING REGISTRATION	450.00
11/29/2024		SQ GLASS ART KALAMAZOO	SUPPLIES FOR SENIOR CENTER EVENT	410.00
11/29/2024		SECTIGO WE POSITIVESS	IT SUBSCRIPTION RENEWAL	159.99
11/29/2024		DRONE U	IT TRAINING SITE	347.00
Total Credit Card Payments				<u>8,187.18</u>
Grand Total				3,854,950.61

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Memorandum of Understanding with River Caddis Communities

SUPPORTING PERSONNEL: Pat McGinnis, City Manager

ACTION RECOMMENDED: Approve a Memorandum of Understanding with River Caddis Communities to award \$5,000,000 to a workforce housing development on Shaver Road using funds appropriated by the State of Michigan.

The State of Michigan finds itself in the same boat as the rest of the nation - we are in the midst of a housing crisis. The 2025 State budget includes appropriations for dozens of housing projects across the state, including one here in Portage on Shaver Road - the River Caddis Communities project. This development will include 7 units in Phase 1 (project total 180 units) and is scheduled to break ground next year.

To maximize accountability, transparency, and public oversight, the state awards funds to the local unit (City of Portage), and the local unit then works with the developer to ensure the housing is constructed consistent with the state's legislative intent. Sec. 1019(3) of PA 121 of 2024 (the Budget Appropriations Act) provides a grant as follows:

(3) From the funds appropriated in part 1 for housing programs, the department shall allocate \$5,000,000.00 to a city with a population between 48,800 and 48,900 located in a county with a population between 260,000 and 265,000 according to the most recent federal decennial census, to support the development of mixed-income housing.

The owners hope to close on the financing in the immediate future and, therefore, have asked for a Memorandum of Understanding (MOU) setting forth a framework for the receipt and dispersal of state funds. The MOU is attached and provides for the transfer of funds to the project, provided it is executed according to grant terms. Should the project not come to fruition, the agreement provides that the city would no longer be obligated by its terms and could potentially re-direct the funds to other eligible affordable housing purposes.

Therefore, it is recommended that City Council approve a Memorandum of Understanding with River Caddis Communities to award \$5,000,000 to a workforce housing development on Shaver Road using funds appropriated by the State of Michigan and authorize the City Manager to execute all documents related to this action.

FUNDING: N/A

Attachments: 1. River Caddis MOU letter

**Memorandum of Understanding
Between River Caddis Communities and the City of Portage**

Date: December 17, 2024

To: City of Portage
Attention: Patrick McGinnis, City Manager

1. Purpose

This Memorandum of Understanding ("MOU") is entered into by and between River Caddis Communities, LLC ("RCC") and the City of Portage, Michigan (the "City") to outline commitments and understandings regarding the RCC Affordable Housing Project being developed in the City of Portage, which shall be funded, in part, by State of Michigan budget appropriations set forth in Michigan Public Act 121 of 2024, Sec. 1019(3).

2. Project Overview

- **Project Name:** River Caddis Communities Affordable Housing Project
- **Location:** Unit 1 of Portage Creek Landings City Centre Condominium located at 412 W. Centre Ave. and 7860 Shaver Road, Portage, Michigan 49002
- **Project Size:** Approximately 9.47 acres with a development plan to construct up to 180 affordable multi-family housing units for rent (first phase: 70 Units).

3. City Commitments under Public Act 121 of 2024

The City agrees to support the RCC Affordable Housing Project with respect to the funding appropriated to the City under Public Act 121 of 2024 Section 1019 (the "Funding") under the following terms:

a. Allocation of Appropriated Funds

The City agrees to provide the Funding solely to the RCC Affordable Housing Project detailed in Section 2 above.

b. Approval Process and Good Faith Efforts

The City will work in good faith with RCC to expedite and achieve all necessary project approvals, incentives, and any required City endorsements that facilitate the successful execution of the RCC Affordable Housing Project.

c. Use of Appropriated Funds

RCC acknowledges that it must utilize the appropriated funds within the time period specified by the appropriation guidelines or as otherwise agreed upon by RCC and the City. Should RCC determine that the project is unable to move forward within 90 days of any initial deadline imposed by the State of Michigan, RCC will promptly notify the City of Portage and release the City from the terms of this MOU.

4. Infrastructure Collaboration

Separate from the requirements of Public Act 121 of 2024, the City will collaborate with RCC to explore any available infrastructure incentives, particularly concerning the City's stormwater and drainage systems on the project property. The City has earmarked \$465,000 in planned funding to support this infrastructure component, with the intent to address development needs specific to the site.

5. General Provisions

This MOU is intended to establish a framework of cooperation between RCC and the City of Portage with respect to the Funding. The parties understand that further documentation and agreements may be necessary to finalize terms or enact specific provisions mentioned herein.

Acknowledged by:



517.703.2107
517.420.7393



info@rivercaddis.com
www.rivercaddis.com



4215 Legacy Parkway
Lansing, MI 48911

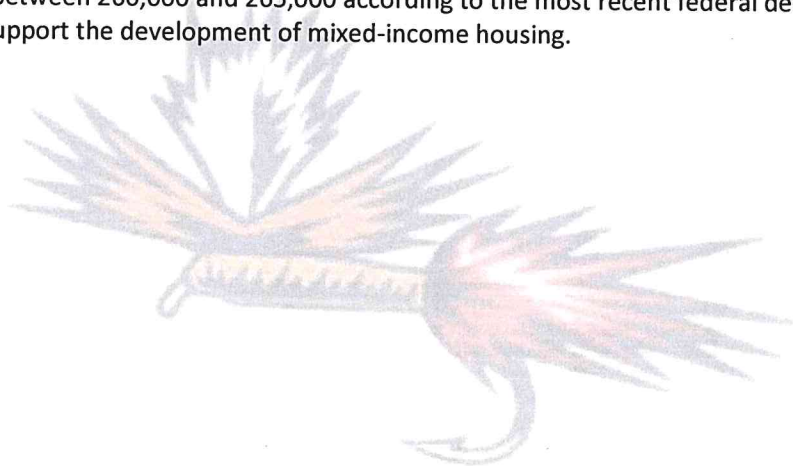


Signed: _____
John McGraw
President, River Caddis Communities, LLC
Date:

Signed: _____
Patrick McGinnis
City Manager, City of Portage
Date:

APPROVED AS TO FORM FOR CITY OF PORTAGE
BAUCKHAM, THALL, SEEGER,
KAUFMAN & KOCHES, PC
Catherine P. Kaufman
By: CATHERINE P. KAUFMAN
Date: 12/12/2024

(3) From the funds appropriated in part 1 for housing programs, the department shall allocate \$5,000,000.00 to a city with a population between 48,800 and 48,900 located in a county with a population between 260,000 and 265,000 according to the most recent federal decennial census, to support the development of mixed-income housing.



TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: MDOT Contract No. 24-5479 (West Milham Avenue, South 12th Street to Oakland Drive)

SUPPORTING PERSONNEL: Kendra Gwin, Director of Transportation & Utilities

ACTION RECOMMENDED: Approve Contract No. 24-5479 between the Michigan Department of Transportation and the City of Portage for the reconstruction of West Milham Avenue from South 12th Street to Oakland Drive and adopt a Resolution authorizing the City Manager to sign all documents related to the contract on behalf of the city.

Major street reconstruction projects are selected based on pavement condition, average daily traffic, federal aid eligibility, as well as potential development activities. The FY 2024–2025 Capital Improvement Program budget includes funding for the West Milham Avenue Reconstruction Project. The project includes resurfacing the existing roadway from South 12th Street to Oakland Drive, replacing the traffic signals at the West Milham Avenue/Monticello Avenue intersection, installing traffic signal fiber from Angling Road to Oakland Drive, and ensuring that all sidewalk ramps conform to the Americans with Disability Act.

On September 19, 2023, DLZ Michigan, Incorporated, was awarded an engineering service contract for design and construction engineering for this project. Because the project is partially funded by Federal Surface Transportation funds, the Michigan Department of Transportation (MDOT) is involved as a facilitator. The construction bid opening by MDOT will be held on January 10, 2025. MDOT requires that an agreement with the local government agency be executed before construction award. The estimated cost for the construction of the project is \$3,084,000 with \$1,300,000 in Federal Surface Transportation Funds, and \$314,642 in Congestion Mitigation and Air Quality Improvement Program Funds to assist in financing this project.

It is recommended that City Council approve Contract No. 24-5479 between the Michigan Department of Transportation and the City of Portage for the reconstruction of West Milham Avenue from South 12th Street to Oakland Drive and adopt a Resolution authorizing the City Manager to sign all documents related to the contract on behalf of the city.

FUNDING: Sufficient funding exists in the FY 2024-2025 Capital Improvement Program Budget.

Attachments: 1. Resolution 24-5479

**CITY OF PORTAGE
RESOLUTION**

At a regular meeting of the Council of the City of Portage, Kalamazoo County, Michigan, held at the City Hall in said City on the _____ day of _____, 2024 at 6:00 p.m., local time.

PRESENT: _____

ABSENT: _____

The following resolution was offered by Councilmember _____ and seconded by Councilmember _____.

RESOLVED, that the City Council for the City of Portage does hereby authorize the City Manager, Patrick McGinnis, to sign all documents related to Contract No. 24-5479 between the City of Portage and the Michigan Department of Transportation. This contract is for the road construction improvements on West Milham Avenue from South 12th Street to Oakland Drive and traffic signal improvements at West Milham Avenue at Angling Road and West Milham Avenue at Monticello Avenue/Devon Street.

ADOPTED: YEAS:

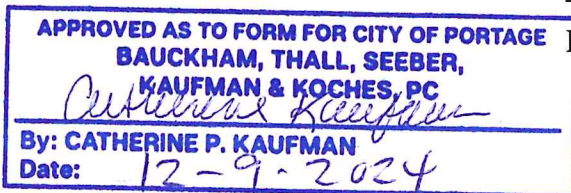
NAYS:

ABSENT:

Erica L. Eklov, City Clerk

CERTIFICATION

I hereby certify this _____ day of _____, 2024 that the foregoing is a true and complete copy of the original on file in my office.



Erica L. Eklov, City Clerk

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Park Facilities Janitorial Contract

SUPPORTING PERSONNEL: Rodney Russell, Director of Public Works

ACTION RECOMMENDED: Award a one-year contract with five one-year renewals for a total of six years in the amount of \$388,110 to Clean Complete Janitorial Services of Kalamazoo, Michigan for cleaning services for Portage Parks Facilities and authorize the City Manager to execute all documents related to this action on behalf of the city.

The City of Portage Administration emphasizes the importance of clean restroom facilities provided at our parks. To meet this essential goal, the City of Portage seeks a contract with Clean Complete Janitorial Services of Kalamazoo, Michigan to provide daily restroom cleaning, which will be performed each day depending upon seasonal requirements. Preseason cleaning, deep cleaning, and pre-rental cleaning will also be performed at certain Portage park facilities. Clean Complete Janitorial Services has five years of successful experience serving the City of Portage park facilities as the janitorial service provider for park restrooms, pavilions, and rental venues with annual renewals since the contract began.

To gain the utmost interest and promote competition, this bid was listed in the Kalamazoo Gazette, on the City of Portage Website, on social media, and on BidNet where 189 contractors were matched and notified of this project. Additionally, eleven known local contractors were also notified. Clean Complete Janitorial Services was the only bidder.

It is recommended that the City Council award a one-year contract with five one-year renewals for a total of six years to Clean Complete Janitorial Services of Kalamazoo, Michigan in the amount of \$388,110 for cleaning services for Portage Parks Facilities and authorize the City Manager to execute all documents related to these actions on behalf of the city.

FUNDING: Funds are available in the Fiscal Year 2024-2025 Operating Funds budget.

Attachments:

1. Submittal Requirements Cleaning Services
2. Copy of Exhibit C - Pricing Schedule
3. Cover Page RFP Cleaning Services
4. Tab_2024 RFP Cleaning Services for Parks (002)

SUBMITTAL REQUIREMENTS Proposals should give clear, concise information in sufficient detail and in the order presented below to allow for a comprehensive evaluation. Any submission may be construed as non-conforming and ineligible for consideration if it does not conform to these Submittal Requirements. The City, at its sole discretion, may waive any variances from these Submittal Requirements and/or seek Clarification. Although the Submittal Requirements below are organized by Evaluation Criteria, these headings are only for purposes of organization and clarity. The City may evaluate the information provided under any section of the Submittal Requirements for each Evaluation Criterion (e.g. when evaluating the Contractor's Organization Experience, Qualifications and Capacity, the City is not limited to reviewing the information submitted in response to the Organizations Experience, Qualifications and Capacity section below and may, for example, rely on information submitted in response to the Technical Approach section as well).

1. Organization Experience, Qualifications and Capacity

Foremost Sales Company LLC, d/b/a Clean Complete Janitorial Service "Clean CJS", has been providing commercial cleaning services since 2019. Prior to that, the management team of Jerry Pearson and Danielle Whaley worked in the capacity of contract managers for another Michigan janitorial service provider since 2015.

Jerry worked in the sanitary supply industry for 20 years prior as a sales representative, sales manager and consultant serving educational, government, medical, retail industrial clients. Before joining CleanCJS, Danielle had a background in office administration and human resources in private business.

Clean serves Kalamazoo County and manages 12 accounts totaling \$700,000 in revenue, employs 15 workers and maintains an office at 2134 Gull Road, Kalamazoo, MI.

- 1.1. 1.2. 1.3. Provide an overview of your organizations history and experience of providing the services/work/specifications described in Exhibit A for similar clients involving a similar services request. Provide a list of similar scope projects conducted for City Government Clients or other similar municipalities involving similar scope work to that of the City's

requirements and undertaken within the past five (5) years. For each project include listed:

Our experience tell us that all janitorial service clients aren't created equal. Some are open to the public with high visitor counts, and open to the outdoors and the soil load that comes with that, requiring specialized methods of cleaning. Clean CJS has performed similar services for the following clients in the past 5 years

A summary description of the work that your Contractor performed and similarities to the City's scope.

1.3 Provide up to five references for clients within the past five years of similar scope to that of the City and its requirements. For each reference include:

1.3.1. City of Portage Parks.

1.3.2. For the past 5 years Clean has served the City of Portage Parks as their janitorial service provider for parks restrooms, pavilions and rental venues with annual renewals every year since the contract began. Services include pressure washing, daily restroom cleaning and waste removal, litter control, high dusting and basic janitorial services in rental venues. 365 days per year.

1.3.3. 1/1/2020 to present.

1.3.1. CCTA "Kalamazoo Metro Transit"

1.3.2. Among other responsibilities, Clean maintains the Kalamazoo Transportation Center, daily maintaining public restrooms and common areas with high visitor counts. Services include pressure washing, restroom cleaning, waste removal, litter control, high dusting and basic janitorial services. 16 hours per day 365 days per year.

1.3.3. 8/1/2023 to present.

1.3.1. Gilbane Building Company

1.3.2. Clean CJS maintained up to 25 construction trailers and restrooms 12 hours per day, 6 days per week in a high traffic count, high soil load environment with multiple contract extensions over a 2½ year period. Services include, pressure washing, restroom cleaning, waste removal, litter control, high dusting and basic janitorial services.

1.3.3. 2/1/2022 to 11/1/2024.

1.3.4. Client Contact Information (email address, telephone number).

customerservice@cleancjs.com

269-547-3367

2. The City will make reasonable attempts to contact references. The City's inability to reach a reference after reasonable attempts may be treated as an unfavorable reference for evaluation purposes. An unfavorable response is a response from a listed reference stating that they would not enlist the company to perform services again in the future, or comments provided that the City deems to be substantially negative or reflective of substandard service.

City of Portage Parks Department

Nick Haines

269-329-4436

hainesn@portagemi.gov

Central County Transportation Authority

Rob Branch

269-337-8235

branchr@kmetro.com

Gilbane Building Company

Bernie Giannotta

bgiannotta@GilbaneCo.com

2.1. Provide a list of all sub-contractors who are being utilized to perform services related to this agreement. For each proposed sub-contractor: Request for Bid Cleaning Services Page 8 of 32 2.1.1. Describe the role/tasks to be performed.

N/A

2.1.2. Provide an overview of experience that supports their ability to perform. **N/A**

2.1.3. If not applicable confirm. **N/A**

2.2. Provide resumes and for all key personnel to be assigned to this project. Include: **Jerry Pearson**

2.2.1. Pertinent years of experience performing similar scope services. for similar types of clients (list project information as applicable). **10 years.**

2.2.2. Education **BA Public Administration Western Michigan University**

2.2.3. Certifications **N/A**

2.2.4. Additional applicable qualifications **N/A**

3. Technical Approach

3.1. **CleanCJS pledges to maintain sufficient trained staff, management, equipment, supplies, vehicles and 24/7 response ability in order to satisfy the terms of the contract.**

3.2. Confirm your agreement to the requirements in Exhibit A – Statement of Work (SOW)” as stated.

CleanCJS agrees to comply with the stated requirements of the contract.

3.1.1. If your organization has exceptions to any requirements, provide a marked up redline version of the Statement of Work that provides applicable alternative language along with a supporting explanation to support any alternative standards/language being proposed. Failure to specifically reject a proposed requirement will be deemed an acceptance of such requirement. **CleanCJS has no exceptions.**

Following the format outlined in the Statement of Work provide a comprehensive and detailed description of your proposed approach. Include:

3.2.1. A comprehensive and detailed description of each task/activity to be performed.

Daily restroom cleaning will be performed by 1-2 employees each day depending upon summer/winter requirements. Preseason cleaning deep cleans and rental pre-cleans will be performed by the more experienced cleaner on staff at Portage Parks.

3.2.2. For each task/activity proposed detail who will conduct the work (personnel) and the number of hours assigned to each task/activity.

Daily restroom cleaning Winter - 2.5 hours daily.

Daily restroom cleaning summer - 5.5 hours daily.

Rental venue pre-cleans – approximately 1 hour per clean.

Pavillion Cleaning – 20 to 30 minutes each, including drive time.

Preseason restroom and pavilion cleaning - 60 hours.

Mid-season pavilion cleaning - 20 hours.

3.2.3. Identify any issues/risks related to project implementation and include proposed effective risk mitigation strategies.

CleanCJS will maintain and insure dedicated vehicles for use at Portage Parks in order to limit Portage Parks liabilities.

3.2.4. Describe all added value activities proposed that exceed the requirements as outlined in the statement of work and/or support the delivery of a high-quality services.

CleanCJS will perform deep cleaning of restroom facilities as necessary between preseason cleans in order to provide consistently clean facilities.

4. Pricing Pricing follows.

4.1. Submit a firm fixed price for the completion of the work outlined in the Exhibit A Statement of Work in the format provided in Exhibit C – Pricing Schedule.

5. Terms and Conditions; and Compliance

5.1. The City's Terms and Conditions (Draft Services Agreement) has been provided as part of this document. The Contractor should respond to these documents in accordance with the procedures and format set forth below. Request for Bid Cleaning Services Page 9 of 32

6. Confirm (YES/NO) your organization's acceptance of the proposed City Terms and Conditions and insurance requirements as presented in the RFP.

6.1. Yes ☒ No ☐

6.1.1. If NO, provide a detailed paragraph-by-paragraph, contract clause-by-contract clause description of any issues or concerns that Contractor may have with the documents listed. If Contractor objects to a particular paragraph or clause, then Contractor will need to further describe, in business terms and not in proposed language, the nature of its concern and what terms Contractor is willing to accept. The Exception List shall provide the reason or rationale supporting the item of concern and/or counter response. Simply stating that a paragraph or clause is "Not Acceptable" or proposing alternative contract terms without describing in business language the reason or rationale may be considered acceptance of that paragraph or clause. If Contractor does not identify specific concerns with a particular paragraph or clause, the City will consider the paragraph and/or clause acceptable. The Contractor shall also provide a description of the business benefit to the City for the proposed language changes. The Contractor shall provide a Redlined (track changes) copy of Terms and Conditions reflecting the proposed revisions. N/A

6.1.2. The City will favor a response that contains a minimal number of exceptions to the requirements and Terms and Conditions contained in the RFP. Should you take exception(s) to the contract, you understand that the City may, as part of its evaluation process, conclude that exceptions are so numerous and/or material as to make Contractor's response to the solicitation unacceptable. Acknowledged.

6.1.3. No Standard Firm Form Contracts – Do not provide a copy of the Contractor's standard contract to the City. The City will be using the enclosed "Terms and Conditions" in negotiations with the Contractor. Acknowledged.

6.1.4. The Contractor will be deemed to have accepted any terms and conditions of the contract to which it does not take exception in its proposal, and such accepted terms and conditions will not be subject to further negotiation. Acknowledged.

Park Restroom, Pavilion and Park Rental Cleaning				Base
Line	Description	Unit of Measure	Estimated Amount	Unit Price
1	Pre season Cleaning of all restrooms and pavilions including May 1 powerwashing	LS	1	\$1,800.00
2	Weekly Cleaning of 19 picnic shelters/gazebos	Month	6	\$ 800.00
3	Pressure washing of 19 Picnic shelters/gazebos and concrete surface (August)	Each	1	\$ 600.00
4	Daily cleaning of 18 restrooms (Summer)	Month	6	\$ 5,375.00
5	Weekly cleaning of 1 restroom - Millennium Park (April - November)	Each	34	\$ 10.00
6	daily cleaning of 5 restrooms (Winter)	Month	6	\$ 2,300.00
7	Daily Cleaning of 1 Restroom - Millennium Park(Dec 1 - March 31)	Month	4	\$ 300.00
8	Schier Park	Each	35	\$ 55.00
9	Stuart Manor	Each	10	\$ 40.00
10	Schoolhouse	Each	3	\$ 40.00
11	Grain Elevator	Each	35	\$ 40.00
12	Hayloft Theatre	Each	12	\$ 55.00
13	Hayloft theatre (April - September)	Monthly	6	\$ 40.00

14	Clean and re rack hayloft theatre Chairs (200)	Each	10	\$ 10.00
15	Clean ampitheatre seats (123 seats total)	Each	10	\$ 40.00

Exhibit C - Pricing Schedule

Vendor Name: Foremost Sales Company

Year	Option Year 1		Option Year 2	
Extended Price	Unit Price	Extended Price	Unit Price	Extended Price
\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00
\$ 4,800.00	\$ 800.00	\$ 4,800.00	\$ 800.00	\$ 4,800.00
\$ 600.00	\$ 600.00	\$ 600.00	\$ 600.00	\$ 600.00
\$ 32,250.00	\$ 5,575.00	\$ 33,450.00	\$ 5,775.00	\$ 34,650.00
\$ 340.00	\$ 10.00	\$ 340.00	\$ 10.00	\$ 340.00
\$ 13,800.00	\$ 2,400.00	\$ 14,400.00	\$ 2,500.00	\$ 15,000.00
\$ 1,200.00	\$ 300.00	\$ 1,200.00	\$ 300.00	\$ 1,200.00
\$ 1,925.00	\$ 55.00	\$ 1,925.00	\$ 55.00	\$ 1,925.00
\$ 400.00	\$ 40.00	\$ 400.00	\$ 40.00	\$ 400.00
\$ 120.00	\$ 40.00	\$ 120.00	\$ 40.00	\$ 120.00
\$ 1,400.00	\$ 40.00	\$ 1,400.00	\$ 40.00	\$ 1,400.00
\$ 660.00	\$ 55.00	\$ 660.00	\$ 55.00	\$ 660.00
\$ 240.00	\$ 40.00	\$ 240.00	\$ 40.00	\$ 240.00

\$ 100.00	\$ 10.00	\$ 100.00	\$ 10.00	\$ 100.00
\$ 400.00	\$ 40.00	\$ 400.00	\$ 40.00	\$ 400.00

\$ 60,035.00 \$ 61,835.00 \$ 63,635.00

\$ 388,110.00

LLC d/b/a Clean Complete Janitorial Service

Option Year 3		Option Year 4		Option
Unit Price	Extended Price	Unit Price	Extended Price	Unit Price
\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00	\$ 1,800.00
\$ 800.00	\$ 4,800.00	\$ 800.00	\$ 4,800.00	\$ 800.00
\$ 600.00	\$ 600.00	\$ 600.00	\$ 600.00	\$ 600.00
\$ 5,975.00	\$ 35,850.00	\$ 6,175.00	\$ 37,050.00	\$ 6,375.00
\$ 10.00	\$ 340.00	\$ 10.00	\$ 340.00	\$ 10.00
\$ 2,600.00	\$ 15,600.00	\$ 2,700.00	\$ 16,200.00	\$ 2,800.00
\$ 300.00	\$ 1,200.00	\$ 300.00	\$ 1,200.00	\$ 300.00

\$ 55.00	\$ 1,925.00	\$ 55.00	\$ 1,925.00	\$ 55.00
\$ 40.00	\$ 400.00	\$ 40.00	\$ 400.00	\$ 40.00
\$ 40.00	\$ 120.00	\$ 40.00	\$ 120.00	\$ 40.00
\$ 40.00	\$ 1,400.00	\$ 40.00	\$ 1,400.00	\$ 40.00
\$ 55.00	\$ 660.00	\$ 55.00	\$ 660.00	\$ 55.00

\$ 40.00	\$ 240.00	\$ 40.00	\$ 240.00	\$ 40.00
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\$ 10.00	\$ 100.00	\$ 10.00	\$ 100.00	\$ 100.00
\$ 40.00	\$ 400.00	\$ 40.00	\$ 400.00	\$ 40.00

\$ 65,435.00

\$ 67,235.00

Year 5
Extended Price
\$ 1,800.00
\$ 4,800.00
\$ 600.00
\$ 38,250.00
\$ 340.00
\$ 16,800.00
\$ 1,200.00
\$ 1,925.00
\$ 400.00
\$ 120.00
\$ 1,400.00
\$ 660.00
\$ 240.00

\$	1,000.00
\$	400.00

\$ 69,935.00

**CITY OF PORTAGE
DEPARTMENT OF PUBLIC WORKS
REQUEST FOR PROPOSAL COVER PAGE
2024 RFP CLEANING SERVICES FOR PARK FACILITIES**

Submit this Completed Form as the Cover Page of Your Proposal.

Firm Name: Foremost Sager Company LLC d/b/a Clean Complete
Address: 2134 Gull Rd. Kalamazoo MI 49048 Janitorial Service
Telephone: 269-547-3367
Website: cleancjs.com

Representative Authorized to Sign Offer and Contract:

Name: Jerm Pearson **Title:** Owner
Email: jerm@cleancjs.com **Telephone:** 269-547-2367
Address: 2134 Gull Rd. Kalamazoo, MI 49048

Authorized Point of Contact (POC)/Project Supervisor:

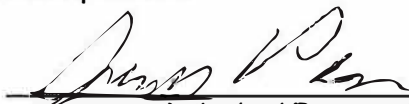
Name: Jerm Pearson **Title:** Supervisor
Email: jerm@cleancjs.com **Telephone:** 269-547-3367
Address: 2134 Gull Rd. Kalamazoo, MI 49048

*City communications to Firm regarding this RFP will be sent to the POC. If no POC is provided, such communications will be sent to the Authorized Representative.

SIGNATURE

I certify that I am authorized to execute and submit this proposal on behalf of the Firm listed above; that all of the RFP instructions and rules, exhibits, addenda, explanations, evaluation criteria, submittal requirements, terms and conditions and any other information provided by the City has been reviewed, understood and complied with; and that all information in this submission is true, correct, and in compliance with the terms of the RFP.

I hereby state that I have the authority to submit this proposal which will become a binding contract if accepted by the City of Portage. I further state that I have not communicated with nor otherwise colluded with any other person or Firm, nor have I made any agreement with nor offered or accepted anything of value from an Official or employee of the City of Portage that would tend to destroy or hinder free competition.



Authorized Representative Signature

12/6/2024

Date

**2024 RFP CLEANING SERVICES FOR PARK FACILITIES
PROPOSAL TABULATION**
PROPOSAL OPENING ON DECEMBER 10, 2024 AT 3 PM

**Foremost Sales Company LLC dba
Clean Complete Janitorial Services**
2134 Gull Rd.
Kalamazoo, MI 49048

\$ 388,110.00

Opened by: _____



Victoria Barboza, Purchasing Manager

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Purchase and Upfitting of Western Star 47x Dump Truck - Bid Tabulation

SUPPORTING PERSONNEL: Rodney Russell, Director of Public Works

ACTION RECOMMENDED: Approve the purchase of one Western Star 47x from D&K Truck Company of Lansing, Michigan, and unfitting services from Truck & Trailer Specialties of Dutton, Michigan at a total cost of \$327,104 and authorize the City Manager to execute all documents related to these purchases on behalf of the city.

The Fiscal Year 2024-2025 Equipment Fund Capital Outlay budget includes the purchase of vehicles, as noted below. The new vehicle would replace an existing heavy-duty dump truck with underbody scraper plowing functions that has reached year ten in the strategic replacement cycle. Replacement at this age has been determined to be the optimum replacement point that results in the lowest total overall cost over the vehicle's life and allows the city to recoup the maximum resale value while still maintaining current levels of service to the public.

<u>Quantity</u>	<u>Vehicle Description</u>	<u>Department</u>
1	Dump truck w/underbody scraper plowing functions	Streets Maintenance

MiDEAL is the State of Michigan's extended purchasing program. It allows Michigan cities, townships, villages, counties, school districts, universities, colleges, and nonprofit hospitals to buy goods and services from state contracts. The program is authorized by Michigan legislation and has existed since 1984. Local governments benefit directly from the reduced cost of goods and services and indirectly by eliminating the time needed to process bids. There are approximately 400 contracts available to MiDEAL members.

A quote for the truck was requested from D&K Truck Company of Lansing, Michigan, the only qualified Western Star dealer in the state. Additionally, quotes for the upfitting of the dump truck were requested from MiDEAL-qualified vendors. The lowest quote was received from Truck & Trailer Specialties of Caledonia, Michigan. Using the cooperative MiDEAL contract #'s 240000000095 and 240000000167, the vehicle identified can be purchased and upfitted at a total cost of \$327,104.

It is anticipated that the replaced vehicle would generate an estimated auction value of \$35,000 through an online bidding establishment, coordinated by the Purchasing Department. These funds would be returned to the General Fund.

It is recommended that the City Council approve the purchase of one Western Star 47x from D&K Truck Company of Lansing, Michigan, and upfitting services from Truck & Trailer Specialties of Dutton,

Michigan at a total cost of \$327,104 and authorize the City Manager to execute all documents related to these purchases on behalf of the city.

FUNDING: Funds are available in the Fiscal Year 2024-2025 Equipment Fund Capital Outlay budget.

Attachments:

1. City of Portage T-A Q-2 2025 SPec Quote 12-3-24
2. Portage TA Dump with V-box 9-28-24

Prepared for:
Jereme Rowland
PORTAGE CITY OF
7900 S Westnedge Ave
Portage, MI 49022
Phone: 269-329-4445

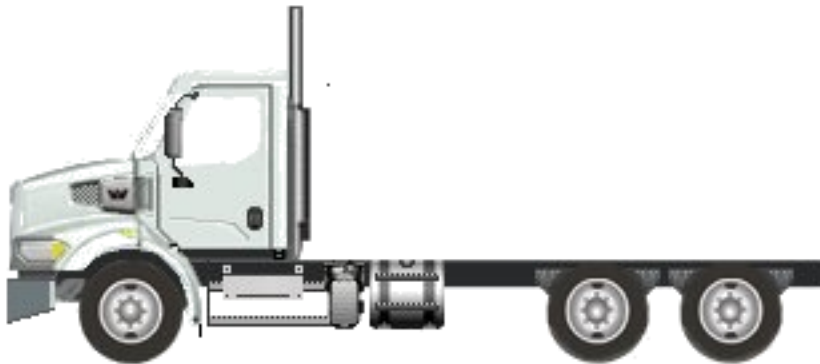
Prepared by:
Brian Pratt
D and K TRUCK COMPANY
3020 Snow Rd
LANSING, MI 48917
Phone: 517-484-1905

A proposal for
PORTAGE CITY OF

Prepared by
D and K TRUCK COMPANY
Brian Pratt

Dec 03, 2024

Western Star 47X



Components shown may not reflect all spec'd options and are not to scale

Prepared for:
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Q U O T A T I O N

WESTERN STAR 47X

SET BACK AXLE - TRUCK
CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-
FT @ 1200 RPM
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH
PTO PROVISION
MERITOR RT-46-164 46,000# R-SERIES TANDEM REAR
AXLE
AIRLINER 46,000# REAR SUSPENSION
DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP
SINGLE FRONT AXLE

18,000# TAPERLEAF FRONT SUSPENSION
111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
5125MM (202 INCH) WHEELBASE
15.0MM X 89.0MM X 315.0MM STEEL FRAME
(0.59X3.5X12.4 INCH) 120 KSI
2600MM (102 INCH) REAR FRAME OVERHANG
TEM TO EVALUATE AND INSTALL FRAME RAIL
REINFORCEMENT AS NEEDED FOR FRONT
FRAME MOUNTED EQUIPMENT

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	140,383	\$	140,383
EXTENDED WARRANTY		\$	3,290	\$	3,290
DEALER INSTALLED OPTIONS		\$	0	\$	0
CUSTOMER PRICE BEFORE TAX		\$	143,673	\$	143,673

TAXES AND FEES

FEDERAL EXCISE TAX (FET)	\$	(341)	\$	(341)
TAXES AND FEES	\$	16	\$	16
OTHER CHARGES	\$	260	\$	260

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
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BALANCE DUE	(LOCAL CURRENCY)	\$	143,608	\$	143,608
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COMMENTS:

Projected delivery on ____ / ____ / ____ provided the order is received before ____ / ____ / ____.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ____ / ____ / ____.

Daimler Truck Financial

Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.

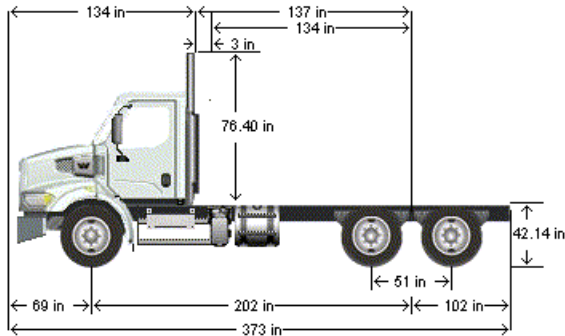
Prepared for:
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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	47X
Wheelbase (545)	5125MM (202 INCH) WHEELBASE
Rear Frame Overhang (552)	2600MM (102 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

Prepared for:
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Dimensions	Inches
Bumper to Back of Cab (BBC)	134.2
Bumper to Centerline of Front Axle (BA)	69.1
Front Axle to Back of Cab (AC)	65.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	136.6
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	133.6
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	239.0
Cab Height (CH)	76.4
Wheelbase (WB)	201.8
Frame Overhang (OH)	102.4
Overall Frame Length	373.1
Overall Length (OAL)	373.2
Rear Axle Spacing	51.0
Unladen Frame Height at Centerline of Rear Axle	42.1

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-29X	WST 47X/49X PRL-29X (EFF:MY26 ORDERS)		
Data Version			
DRL-019	SPECPRO21 DATA RELEASE VER 019		
Vehicle Configuration			
001-470	WESTERN STAR 47X	9,050	6,525
004-226	2026 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-006	TRAILER TOWING PROVISION AT END OF FRAME WITH SAE J560	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
99D-027	EPA CLEAN IDLE LABEL FOR INITIAL REGISTRATION IN EPA OR ACT STATES - (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-010	DIRT/SAND/ROCK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A5	WESTERN STAR VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		

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Data Code	Description	Weight Front	Weight Rear
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 64000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
AA3-073	BELLY PLOW BODY WITH HIGH GROUND CLEARANCE		
AF3-2A8	TRUCK AND TRAILER SPECIALTIES INC.		
Tractor Service			
AA2-005	FLATBED TRAILER		
AH6-001	SINGLE (1) TRAILER		
Engine			
101-3BU	CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM	-850	-70
Electronic Parameters			
79A-063	63 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-016	PTO MODE ENGINE RPM LIMIT - 2000 RPM		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79U-002	PTO GOVERNOR RAMP RATE - 50 RPM PER SECOND		
79W-024	CRUISE CONTROL BUTTON PTO CONTROL		
80G-002	PTO MINIMUM RPM - 700		
80S-003	PTO 1, DASH SWITCH, ENGAGE BEFORE DRIVING		
* 80V-002	ENGINE MOUNT PTO, DASH SWITCH ENGAGES PTO MODE, DRIVING OPERATION		
Engine Equipment			
99C-024	EPA 2010/GHG 2024 CONFIGURATION		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-111	SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED AIR CLEANER, WITH INSIDE/OUTSIDE AIR AND SNOW DOOR		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	-10	
292-214	(4) DTNA GENUINE, FLOODED STARTING AND CYCLING, MIN 2800CCA, 760RC, THREADED STUD BATTERIES	50	20

Prepared for:
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Data Code	Description	Weight Front	Weight Rear
290-105	ENCLOSED ALUMINUM BATTERY BOX MOUNTED LONG SIDE TO RAIL	20	20
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-020	UNPOLISHED ALUMINUM WST BATTERY BOX COVER		
33M-001	AUXILIARY POWER NET DISTRIBUTION BLOCK FOR BODY BUILDER USE	5	
293-058	NON-ESSENTIAL POSITIVE LOAD DISCONNECT, IN CAB CONTROL SWITCH MOUNTED OUTBOARD OF DRIVER SEAT	2	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-032	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH		
016-1E2	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	-35	-30
28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		
239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1F8	RH CURVED VERTICAL TAILPIPE B-PILLAR RAISED UNDER STEP MOUNTED AFTERTREATMENT SYSTEM		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	9	3
23Z-005	UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER		
43X-013	LH DIESEL EXHAUST FLUID TANK LOCATED BACK OF CAB WITH MAXIMUM APPROVED LENGTH DEF LINES COILED AT TANK		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD		
273-059	ELECTRONICALLY CONTROLLED VARIABLE SPEED VISCOUS FAN DRIVE		

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	Data Code	Description	Weight Front	Weight Rear
	276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
	122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	10	
	110-003	CUMMINS SPIN ON FUEL FILTER		
	118-001	FULL FLOW OIL FILTER		
*	266-109	1400 SQUARE INCH VOCATIONAL RADIATOR WITH PROTECTION PACKAGE	20	
	103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
	171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
	261-001	STANDARD CHARGE AIR COOLER PLUMBING		
	270-016	RADIATOR DRAIN VALVE		
	168-002	LOWER RADIATOR GUARD		
	360-016	1310 ADAPTER FLANGE FOR FRONT PTO PROVISION	10	
	138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
	140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
	132-004	ELECTRIC GRID AIR INTAKE WARMER		
	155-055	DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	-45	

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-230	-130
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-021	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 4, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

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	Data Code	Description	Weight Front	Weight Rear
	84F-012	S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	84G-012	2000 RPM PRIMARY MODE SHIFT SPEED		
	84H-012	2000 RPM SECONDARY MODE SHIFT SPEED		
	84N-004	FUEL SENSE 2.0 PLUS - DYNACTIVE: PERFORMANCE, NEUTRAL AT STOP: ACTIVE		
	85H-159	MAXIMUM OUTPUT SPEED FOR PTO OPERATION 4000 RPM - ALLISON 5TH GEN TRANSMISSIONS		
	353-075	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH CAP		
	34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
*	362-2JT	CUSTOMER INSTALLED CHELSEA 281 SERIES PTO		
	363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON		
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
	345-078	HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED		
	370-006	WATER TO OIL TRANSMISSION COOLER		
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
	35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1BA	DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	90
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20
402-075	BENDIX ADB22X AIR DISC FRONT BRAKES	20
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-004	FRONT DISC BRAKE ROTORS	
427-001	FRONT BRAKE DUST SHIELDS	5
409-006	FRONT OIL SEALS	
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	
405-030	FRONT AIR DISC BRAKE INTERNAL ADJUSTERS	
536-104	DUAL POWER STEERING GEARS, BENDIX 16-20K	80
534-003	4 QUART POWER STEERING RESERVOIR	5

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Data Code	Description	Weight Front	Weight Rear
533-001	OIL/AIR POWER STEERING COOLER	5	
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
620-013	18,000# TAPERLEAF FRONT SUSPENSION	145	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-058	MERITOR RT-46-164 46,000# R-SERIES TANDEM REAR AXLE		550
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		60
421-614	6.14 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-25	-25
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
878-023	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE		
87A-005	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
87B-008	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH		
423-075	BENDIX ADB22X AIR DISC REAR BRAKES		-60
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-005	REAR DISC BRAKE ROTORS		
425-002	REAR BRAKE DUST SHIELDS		10
440-006	REAR OIL SEALS		
426-094	AIR DISC LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-030	REAR AIR DISC BRAKE INTERNAL ADJUSTERS		
41T-003	GUARANTEED NAME BRAND "ROADRANGER SYNTHETIC" FE 75W-90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			

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Data Code	Description	Weight Front	Weight Rear
622-199	AIRLINER 46,000# REAR SUSPENSION		330
621-108	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)		
431-005	RESTRAINED AXLE SEATS IN AXLE CLAMP GROUP		
624-016	51 INCH AXLE SPACING		
888-078	IGNITION CONTROLLED ELECTRIC DUMP SWITCH FOR AIR SUSPENSION WITH STATE RETENTION AND GAUGE		
87D-012	REAR AIR SUSPENSION DUMP VALVE AUTOFILL >5 MPH WITH INDICATOR LIGHT		
910-001	SINGLE AIR REAR SUSPENSION LEVELING VALVE		
623-002	TRANSVERSE CONTROL RODS		
439-005	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM) (AIR RIDE SUSPENSION)		20

Pusher / Tag Equipment

429-998	NO PUSHER/TAG BRAKE DUST SHIELDS
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Brake System

490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-040	WABCO SYSTEM SAVER 1200 HEATED AIR DRYER WITH PRESSURE CONTROL VALVE
479-012	AIR DRYER MOUNTED UNDER HOOD
460-001	STEEL AIR BRAKE RESERVOIRS
477-011	PETCOCK DRAIN VALVES ON ALL AIR TANK(S)

Trailer Connections

914-012	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK WITH 36 INCHES ADDITIONAL LINE END OF FRAME	5	5
919-060	(1) ADDITIONAL SWITCH FOR ELEC/AIR SOLENOID W/STATE RETENTION PLUMBED TO BACK OF CAB		
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
303-025	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		

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Data Code	Description	Weight Front	Weight Rear
30K-062	90 AMP SERVICE FOR BODY BUILDER INSTALLED COMPONENTS MOUNTED BETWEEN SEATS		
310-998	NO TRAILER ELECTRICAL CABLE	-10	
Wheelbase & Frame			
545-512	5125MM (202 INCH) WHEELBASE		
546-107	15.0MM X 89.0MM X 315.0MM STEEL FRAME (0.59X3.5X12.4 INCH) 120 KSI	400	490
548-803	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT		
552-065	2600MM (102 INCH) REAR FRAME OVERHANG		
55W-010	FRAME OVERHANG RANGE: 101 INCH TO 110 INCH	-110	460
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 136.61 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 133.61 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 373.11 in		
ZF1-99D	FRAME HEIGHT TOP FRONT UNLADEN : 44.39 in		
ZF2-99D	FRAME HEIGHT TOP FRONT LADEN : 41.06 in		
ZF3-99D	FRAME HEIGHT TOP REAR UNLADEN : 42.14 in		
ZF4-99D	FRAME HEIGHT TOP REAR LADEN : 40.62 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 0.28 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 144.65 in		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 0.0 in		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)	10	10
572-001	STANDARD REARMOST CROSSMEMBER		
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
Chassis Equipment			
025-001	UNPOLISHED ALUMINUM WST EQUIPMENT COVERS		

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Data Code	Description	Weight Front	Weight Rear
556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-60	
558-065	FRONT TOW HOOKS - FRONT FRAME EXTENSION MOUNTED		
574-998	NO LICENSE PLATE MOUNTING		
551-034	CLASS 10.9 THREADED METRIC FASTENERS		
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE		
Fuel Tanks			
204-150	50 GALLON/189 LITER ALUMINUM FUEL TANK - LH	-25	
* 218-006	25 INCH DIAMETER FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-034	FUEL TANK(S) AS FAR AFT AS POSSIBLE	60	-60
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100	
094-0GP	MICHELIN XDN2 11R22.5 16 PLY RADIAL REAR TIRES		160
Wheels			
502-445	ACCURIDE 29300 22.5X9.00 10-HUB PILOT 6.38 INSET 5-HAND STEEL DISC FRONT WHEELS	82	
505-753	MAXION WHEELS 91262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		40
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-053	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB		
82A-028	STAINLESS STEEL CAB ACCENT MOLDING		
667-001	FRONT FENDERS		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	

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Data Code	Description	Weight Front	Weight Rear
678-066	INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANDLES		
65X-009	BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN		
640-016	X-SERIES STEEL REINFORCED ALUMINUM CAB		
644-048	X-SERIES VOCATIONAL HOOD		
67U-001	HOOD OPENING ASSIST WITH LOCKING STRUT		
652-016	WESTERN STAR NAMEPLATES		
727-012	DUAL HADLEY SD-978 26 INCH RECTANGULAR AIR HORNS		
726-001	SINGLE ELECTRIC HORN		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
327-064	DUAL AMBER LED CLASS I STROBE LIGHTS WITH STAINLESS STEEL BRACKETS ABOVE CAB DOORS	20	
312-095	DUAL STAGE INTELLIGENT LED HEADLIGHTS WITH HEATED LENS SYSTEM		
302-073	VISOR MOUNTED LED MARKER LIGHTS		
314-824	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER		
311-019	HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS		
294-107	INTEGRAL LED STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED END OF FRAME		5
300-043	LED SIDE TURN SIGNAL		
318-1AD	SWITCH, INDICATOR LIGHT AND APPROXIMATELY 10 FEET OF WIRE ON CHASSIS LH AT BACK OF CAB FOR CUSTOMER FURNISHED UTILITY LIGHT(S)		
744-106	C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR		
796-001	102 INCH EQUIPMENT WIDTH		
743-209	LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS		
74A-998	NO AUXILIARY MIRROR		
74B-113	RH AND LH HEATED BLACK HOOD/FENDER MOUNTED SIDE VIEW MIRRORS WITH BLACK MOUNTING ARM	8	
729-001	STANDARD SIDE/REAR REFLECTORS		

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Data Code	Description	Weight Front	Weight Rear
677-098	UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER		
776-998	NO SLEEPER VENT	-10	
764-020	STAINLESS STEEL EXTERIOR SUN VISOR WITH INTEGRAL MARKER LIGHTS	16	
768-064	SINGLE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH	-10	
663-019	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD		
659-016	1.5 GALLON WINDSHIELD WASHER RESERVOIR MOUNTED UNDER CAB WITH REMOTE FILL		
Cab Interior			
055-016	X-SERIES PREMIUM INTERIOR TRIM LEVEL PACKAGE		
707-1C5	QUARRY GRAY VINYL UP LEVEL INTERIOR		
70K-017	CARBON WITH PREMIUM TEAK ACCENT		
772-035	BLACK MATS WITH ADDED FLOOR HEAT AND NOISE INSULATION		
785-033	(1) DUAL USB CHARGING OUTLET, (1) LIGHTER OUTLET AND ASH TRAY		
691-001	FORWARD ROOF MOUNTED CONSOLE		
693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
741-015	(2) COAT HOOKS ON BACKWALL OF CAB		
745-998	NO UPPER BUNK	-50	-50
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
170-015	STANDARD HEATER PLUMBING		
698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
739-034	PREMIUM INSULATION		
324-1B2	PREMIUM LED CAB LIGHTING		
787-998	NO SECURITY DEVICE		
657-138	ALL UNIT (S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1041		
78G-003	KEY QUANTITY OF 3		
655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
64C-003	BLACK DOOR HANDLES		
740-998	NO MATTRESS	-20	-15

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	Data Code	Description	Weight Front	Weight Rear
	756-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	20	
	760-036	SEARS TOOL BOX HIGH BACK NON SUSPENSION PASSENGER SEAT		
	759-007	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS		
	758-136	GRAY MORDURA CLOTH DRIVER SEAT COVER WITH EMBROIDERED LOGO		
N	761-138	BLACK MORDURA CLOTH PASSENGER SEAT COVER WITH NO LOGO		
	763-1AB	3 POINT HIGH VISIBILITY ORANGE ADJUSTABLE D-RING RETRACTOR DRIVER AND FIXED D-RING RETRACTOR PASSENGER SEAT BELTS		
	532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
	540-070	4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS		
	765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

	185-004	STANDARD FOOT PEDAL SYSTEM		
	106-002	ELECTRONIC ACCELERATOR CONTROL		
	87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
	870-002	BRIGHT ARGENT FINISH GAUGE BEZELS		
*	734-026	VOCATIONAL INSTRUMENT PANEL WITH CUSTOMER SPECIFIED CUSTOM SWITCH AND GAUGE LAYOUT		
		ALL 8 SWITCHES ON 4CG LOW AS POSSIBLE O N FLEW PANEL, NO GAUGES IN FLEX PANEL		
	840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
	198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS	2	
	721-001	97 DB BACKUP ALARM		3
	149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES		
	156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
	339-007	AUXILIARY POWER DISTRIBUTION MODULE FOR TEM USE, AUXILIARY EVAUULT MOUNTED, CIRCUIT BREAKER PROTECTED		

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	Data Code	Description	Weight Front	Weight Rear
	811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
	81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
	160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
	844-001	2 INCH ELECTRIC FUEL GAUGE		
	148-072	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS		
	856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
	854-998	NO ENGINE OIL TEMPERATURE GAUGE		
	852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
	864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
	867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER		
	830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
	372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE		
	736-998	NO OBSTACLE DETECTION SYSTEM		
	72J-998	NO DR ASSIST SYSTEM		
	49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL		
	73B-998	NO LANE DEPARTURE WARNING SYSTEM		
*	35M-012	1 QUIKFIT PROGRAMABLE MODULE (QPMXMC) W/ (8) 20AMP FUSED RELAYS		
	6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL		
*	746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939		
	747-001	DASH MOUNTED RADIO		
	750-041	STANDARD SPEAKER SYSTEM		
	753-998	NO AM/FM RADIO ANTENNA		
	748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
	749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION		
	751-001	SINGLE REMOTE SPEAKER WITH LEAD FOR 2-WAY RADIO		

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Data Code	Description	Weight Front	Weight Rear
752-004	SINGLE FIBERGLASS LH MIRROR MOUNTED CB ANTENNA WITH BRACKET AND LEAD		
75W-001	HEADLINER MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLEETOOTH, GNSS/GPS		
78C-998	NO DIGITAL SATELLITE AUDIO RECEIVER ANTENNA		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
812-032	ELECTRONIC 2500 RPM TACHOMETER		
813-1C8	DETROIT CONNECT PLATFORM HARDWARE		
8D1-315	5 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES		
8DE-998	NO ASE DATA SVCE EXTENSION		
RDE-998	NO EXTENSIONS		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-113	FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO UNDER CAB, CAPPED		
4C1-025	HARDWIRE SWITCH #1, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
4C2-011	HARDWIRE SWITCH #2,ON/OFF LATCHING, 30 AMPS IGNITION POWER		
4C3-017	HARDWIRE SWITCH #3,ON/OFF LATCHING, 10 AMPS BATTERY POWER		
4C4-016	HARDWIRE SWITCH #4, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
81Y-005	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE	2	
842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		

Prepared for:
 Jereme Rowland
 PORTAGE CITY OF
 7900 S Westnedge Ave
 Portage, MI 49022
 Phone: 269-329-4445

Prepared by:
 Brian Pratt
 D and K TRUCK COMPANY
 3020 Snow Rd
 LANSING, MI 48917
 Phone: 517-484-1905

	Data Code	Description	Weight Front	Weight Rear
	4E1-013	PROGRAMMABLE SWITCHES/INDICATORS LOCATED IN AUXILIARY PANEL		
*	48H-002	QUICKFIT POWERTRAIN INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH BLUNTCUTS		
*	4CG-008	8 EXTRA PROGRAMMABLE SWITCHES/INDICATORS		
		\$A1A0208ZZ,A1B0209ZZ,A1C0200ZZ,A1D0230ZZ,A1E0192ZZ,A1F0000ZZ,A1G0129ZZ,A1H0212ZZ		
	48C-002	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) BETWEEN SEATS WITH BLUNTCUTS		
	87G-006	OPTIONAL AIR SWITCH 1 WITH IGN ON		

Design

	065-000	PAINT: ONE SOLID COLOR		
--	---------	------------------------	--	--

Color

	980-3QC	CAB COLOR A: L6431EY WINTER WHITE ELITE EY		
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
	962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
	966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		

Certification / Compliance

	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
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Secondary Factory Options

	998-032	CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY		
*	999-014	DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE		

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8947 lbs	8341 lbs	17288 lbs

Application Version 12.0.009
 Data Version PRL-29X.019
 City of Portage Tandem axle Q-2
 2025

12/03/2024 3:11 PM

Page 20 of 21

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Total Weight ⁺	8947 lbs	8341 lbs	17288 lbs
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Extended Warranty

WAI-47J	CUM 2017 L9: HD1 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM EXTENDED WARRANTY. FEX APPLIES
WAX-102	CUM 2017 L9: AT3 MD DTY 5 YEARS / 150,000 MILES / 241,500 KM AFTERTREATMENT. FEX APPLIES

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

Truck & Trailer Specialties

3286 Hanna Lake Ind. Park Dr.

Dutton, MI. 49316

Phone 616-698-8215, Fax 616-698-0972

Quote No. DQO005317

Portage City

Attn: Jereme Rowland

Phone: (269)-329-4445

September 28, 2024

Equipment Quotation:

Chassis: 2025 T/A Western Star 47X SBA, 9L Cummins, Allison 3000

Supply and install Crysteel Select Dump Body Including:

Body length: 14' Body ID: 84" Body OD: 96"
Front style: straight, height 60", material 7 ga. 201 stainless steel
Side style: single panel with rubrail/pressed horizontal
Sides: front height 60", rear height 50", material 7 ga. 201 stainless steel
Rear style: straight, height 50", material 7 ga. 201 stainless steel
9 panel double acting tailgate includes an air cylinder release and spreader chains
Tailgate pins are 1.25" hardened steel and include grease zerk fittings
1" tailgate hinge plate and 1" flame cut latch pin fingers are included
Banjo style chain slot brackets at rear
Weld stainless steel chains from removeable tailgate pins, attach/weld to tailgate side,
would like to keep chain short, but not to impede with installation/removal
1/4" AR450 steel floor
Frame style: 10 Western Tubular, material 1/4" A1011 steel
Doghouse construction is 7 ga. 201 stainless steel material
Doghouse dimensions:
Doghouse height: approximately 56"
Top of doghouse is approximately 9-3/4" deep x 10-1/2" wide, tapering to
Approximately 14" deep x 32" wide at the bottom
Boxed top rail
Full depth front and rear pillars
1/2 cab shield constructed of 10 ga. 201 stainless steel, continuously welded
A fold up stainless-steel ladder installed on the street side rear corner of the dump body
Form and install two stainless steel channel brackets at the upper rear corners of the
dump body for use with securing the V-box to the dump body
Body is 100% continuously welded above the floor line
A greaseable & replaceable rear hinge installed
12" bolt-on rear spill shield, constructed of 7-gauge stainless steel
201 stainless steel comes unpainted
Prime body: floor/understructure
3 oval light cutouts in each rear pillar of the dump body
Mud flaps installed in front of and behind the drive tires

Install Crysteel Marathon Model M63138 telescopic, trunnion mounted hoist including:

NTEA Class 120, lifting capacity 46.4 tons
Hoist is 3 stage, double acting, with a 138" stroke
Two body props to support empty body weight

Truck & Trailer Specialties

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Phone 616-698-8215, Fax 616-698-0972

Quote No. DQO005317

50-degree dumping angle

Install Roll-Rite Tarp system including:

Roll Rite Electric Aluminum Tarp System Including:

High torque electric motor with aluminum wind deflector

Aluminum tarp and tension bow sets with 30-degree offset elbows for loader clearance

4 spring externally mounted pivot arm set

20' asphalt tarp cover

Install Monroe Model MCV-168-84-56 SS Slide-in Dual Auger V-box Spreader including:

14' hopper length, 84" wide, 56" high

201 stainless steel hopper (9.24 cubic yard capacity)

Body is 100% continuously welded

10 ga. 201 SS hopper with 45-degree sloped sides

7 ga. 201 stainless steel longsills

3/16" replaceable 201 stainless steel floor

2" double crimped top edge

Dual auger with planetary drive gear box, 3.2 CI White motor

Hardened auger flights

Application rate sensor

Auger drive motor guards

Bolt-on 3/8" mild steel rod top screens with H-beam support, powder coated black

7 gauge 12" x 18" feed gate with self-locking screw type jack

(4) heavy duty lift loops, one at each corner

Bearing grease extension kit ran to the rear of the body

2' sloped front with a doghouse cutout

Stainless steel runner kit attached to the body crossmembers running length of body,
to aid in wash out

No side spill shields are included

Stainless steel tailgate latch

Pins will be provided for securing the front of the V-box to the sides of the dump body,
includes related stainless-steel bracketry as needed

2 **stainless steel** winches with nylon straps for securing the V-box in the dump box,
one each side of the V-box at the rear

No V-box mounted ladder

Stainless steel quick couplers installed at the rear of truck

Tip up spinner assembly with poly disc (**not** directable)

Stainless steel hand winch

Monroe closed loop hydraulic Pre wet system installed on the dual auger body including:

Bronze 7 GPM hydraulic gear pump mounted in a fiberglass enclosure

Dickey-John flow meter

Liquid spray bar installed in the auger trough

Two (2) 100-gallon poly pre-wet tanks with stainless steel mounting hardware, one per side,
Prewet tanks to be mounted as far forward as possible

Tanks are UV stabilized and are rotationally molded with .350 wall thickness

Install additional ball valve shut off to balance fill of both tanks

Bulk fill kit, pump flusher kit, tank crossover connect kit, and remote vent kit included

Truck & Trailer Specialties

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Phone 616-698-8215, Fax 616-698-0972

Quote No. DQO005317

Install 29" Hustling type front hitch including:

Roller pins installed
12" Channel type front bumper with tapered back ends
Chain storage box with expanded metal bottom installed behind the bumper, streetside only
3" x 10" lift cylinder with Socatri or Nimet rod
Fabricate and install all necessary braces and kicker legs for front plow use
Install steps to the kicker legs at the base of the front hitch, one each side
Two (2) tow hooks mounted to kicker legs below front bumper, one each side
Install 1/2" side plate reinforcements for front hitch/bumper assembly
Hitch is bolted to the front bumper

Install Monroe model MS4512 underbody scraper including:

Updated center bolt piloted into the hanger board
Two 4" power reverse cylinder with 2" Socatri or Nimet rods
Two 3-1/2" actuating cylinders with 2" Socatri or Nimet rods
All cylinders have poly Pak seals
1" circle with 5" greaseable center bolt
Circle includes a welded-in hardened bushing
1" x 20" x 12' moldboard
2" clevis bosses on power reverse cylinders
Contoured circle clamps with poly type wear pads
Three reinforced moldboard hinges with gussets
15-point grease line kit
3/8" stainless steel pipe and hoses for faster scraper actuation
Hinge shaft is 2.5" cold rolled round stock
Moldboard hinges are constructed of 3/8" wall DOM tubing
Adjustable j-50 relief valve is included
Cushion valve for power reverse circuit is included
Stainless steel piping will be used for plumbing mounted to the hanger board
Serrated bar grating step on streetside of moldboard
Paint both ends of underbody scraper Orange in color
Install Kennametal carbide cutting edges
Carbide curb guards on both sides of scraper moldboard
Cylindrical proximity switch mounted on scraper for scraper up/down

Install right hand Monroe 9 ft mid mounted patrol wing including:

Captive moldboard and banjo plate
Grease line kit for paraglide assembly
Para-Glide style wing post mounted behind the scraper
Twin rear-mounted, cushioned push arms with rear lift cylinder to operate the heel
Moldboard is break formed 3/16 steel with 3/4" x 4" x 4" bottom angle
Moldboard is powder coated orange
D type rubber bumper stops
Safety chain at rear
5"x7" rear cross tube for rear wing support

Truck & Trailer Specialties

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Quote No. DQO005317

Rear wing post to be removeable for summer operations

Sequencing valve with hoses and couplers

Lock valves are built into the sequencing valve to prevent both the toe and heel Cylinder from drifting when in the stored position

Add one D-ring to rear of wing moldboard at the top for use with City supplied winch in the event that the wing cannot be lifted due to a hydraulic failure, includes make sure the passenger side rear lift loop on the V-box attachment is in a position that will work for manually winching up the wing for transport back to the shop

Heel cylinder hydraulic disconnects are stainless steel

SoundOff LED dual amber/green Mpower flasher mounted to end of wing using a custom stainless steel mounting bracket, includes forward facing 3/4" marker light

Install 36" LED amber/green whip light mounted horizontally at end of wing, preferably where light will not shine directly into the operator's eyes

Work light/spotlight mounted behind cab to illuminate wing

5/8" X 8" X 108" reverse curve steel cutting edge

Two TTWS-NIHARD cast iron plow shoes

Carbide curb guard #X365160 mounted on end of wing moldboard

Put supplied chain kit for wing in cab

Install 3/4" rear hitch plate reinforced with 1/2" plate including:

Provide one PH20 pintle hook, loose, in cab for future installation by City of Portage

Drill mounting holes in rear hitch plate for mounting PH20 pintle hook 23-1/2" inches from the ground to the valley of the hitch, includes drill additional mounting holes above and below

Two (2) 3/4" D-rings for use with safety chains

7-way RV style trailer plug, wired to chassis

No 7-way Round trailer plug

Cap chassis provided air lines at rear hitch plate

Electronic brake controller mounted in cab, wired to chassis

OEM taillights will **not** be used

Supply and install Monroe SS Combo Style Fuel/Hydraulic/Valve enclosure including:

Constructed of 7 ga. 201 stainless steel

Model #00166450

100-gallon fuel oil capacity, 35-gallon hydraulic oil

Fuel/hydraulic tank/ valve enclosure is 1-piece construction

Fuel gauge sending unit

Hydraulic valve enclosure built into left side of tank

Valve enclosure has a weather tight door

Low oil sensor in hydraulic tank wired to indicator light in dash mounted heads-up display

Top of the tank Zinga return line filter

Suction strainer in supply port of the hydraulic tank

Ball valve shut off on case drain and supply ports

Ball valve shut offs on supply and return side of fuel system

Sight and temperature gauge

Tank labels

Truck & Trailer Specialties

3286 Hanna Lake Ind. Park Dr.

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Quote No. DQO005317

Hydraulic tank will be filled with AW-32 hydraulic oil

Install Stainless steel "J" hook for use with refueling

Step installed below streetside of combo tank for use with refueling

Install Central Hydraulic system including:

Rexroth 85 CC load sense front of the engine hydraulic pump

Pump flange mounted on pump

Spicer 1310 drive line with splined slip yoke and companion flange for easy removal

Solenoid operated low oil shut down block with override and a manually operated switch

Install Rexroth 8M4-12 hydraulic valve, manifold design including the following functions:

4-way air operated section for Hoist with A port LSR, 34 GPM

4-way air operated section for Scraper up/down with A port LSR, 16 GPM

4-way air operated section for Scraper swing, 16 GPM

4-way air operated section for Front plow up/down, 16 GPM

4-way air operated motor spooled section for Wing, 19 GPM

3-way EPC section for spinner, 8 GPM

3-way EPC section for conveyor, 15 GPM

3-way EPC section for pre-wet, 8 GPM

*****Deleted directable spinner section*****

All valve sections are individually pressure compensated

Hydraulic valve mounted inside the stainless-steel combo tank valve enclosure

All high-pressure hose will be Parker model 451

8-port return line manifold

Stainless steel piping plumbed to the rear of the body for slide-in sander use and shall be equipped with stainless steel quick disconnects and dust caps

Install Pneu-Logic 6 button single joystick air controller with Deadman safety switch including:

Single, dual axis, multi-function air over hydraulic Joystick controller

Function buttons and air lines are color coded

Joystick provides proportional air control to actuate the plow, scraper, hoist/jib, and wing, functions at the valve, includes control buttons for remote pause/blast

Install heads up display mounted on dash to show in use function including:

Function buttons for joystick

Tailgate open

Low oil light

Body up light

Pump shut down light

Pneu-logic Console switches mounted by arm rest to include:

Tarp switch

Low oil override/shut down switch

Air tailgate switch

Chassis supplied programmable upfitter switches to be used for the following from left to right:

Front Strobe (front only)

Rear Strobe (top and rear)

Scraper lights

Wing light

Sander light

Truck & Trailer Specialties

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Quote No. DQO005317

Blank

Blank

Air blower (momentary)

Chassis supplied hard-wired upfitter switches to be used for the following from left to right:

Spare

Spare

Spare

Spare

Install Rexroth Model CS660 ground speed controller including:

Display housing: 9.942" W x 7.230 H x 2.37" D

Display screen: 7" capacitive touch screen

Loudspeaker: 1.5-Watt amplifier with adjustable voice feedback

Proportional outputs: 9 channels

Digital outputs: 5 channels

Frequency inputs: 5 channels

Switch inputs: 8 channels

Analogue inputs: 7 channels

(All inputs protected and filtered)

Interfaces: 2 CAN ports, 2 serial ports

Remote/adjustable pause/blast feature wired into the Pneu-Logic controller

Stationary unload feature for both solid and liquid materials

Console has key protection to access system settings

GPS Wi-Fi interface capabilities (GPS and Wi-Fi antennas are included)

Road Watch Temp sensor will be installed on the mirror head and wired into the controller

PC based software with trip summary report availability

Operating temperature: -22-degrees F to 185-degrees F

System setup & calibration training is included

Install custom lighting/electrical including:

Install Grote heated LED plow lights on hood with aluminum plow light mounting brackets,

Drivers side mounted 72" - 73" from ground to bottom of light

Passenger side mounted 77" - 78" from ground to bottom of light

Wire to chassis supplied plow light /headlight harness

Install SoundOff amber/green LED 4" Mpower EMPC2STS4 stud mount flashers mounted on the plow light brackets

3-hole oval light cutouts in rear pillars of dump body to include the following on each side:

SoundOff LED 6" oval LED stop/turn/taillights mounted in top holes of cutouts

SoundOff LED 6" oval LED amber/green flashers in middle holes of light box

SoundOff LED 6" oval LED back up lights mounted in inside holes of light box

All required marker lights to be LED

Sound Off LED amber/green strobe lights #ELB45BCHOPC installed on chassis supplied

Light mount brackets on the left and right sides above the cab, and includes stainless steel rod brush guards

Take-off strobes to be put in the cab

Truck & Trailer Specialties

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Quote No. DQO005317

(1) LED sander light will be installed at the left rear of body

(2) LED underbody scraper lights installed, one each side

Emergency and work lighting to be wired to keyed power

Proximity switch for body up and light in the cab

Betts Dry-seal junction box

Back up alarm

Install City supplied TVR10C-01-001 tire pressure monitoring system including:

Install 10 screw on cap style tire sensors, one on each wheel,

(Quote is not applicable for band style sensors)

Install Repeater per manufacturer specifications and wire to fused chassis power supply

Install TireView wide screen display to in cab console using supplied mounting bracket, and wire to chassis fused power supply

Program tire pressure monitoring system per manufacturer recommendations

Install City supplied SkyHawk Telematics GPS system including the following:

AK1-J19-Kit modem kit including:

Modem

Backup battery

J1939 ECM cabling

GPS/Cellular antenna

Wiring harness

AVL-ATR-SPR Atrack SSI kit including:

Universal controller interpreter and serial cable connection to AK11

SPR-UNV-KIT universal spreader cable kit

AVL-SPR-660: CS660 AVL transmission cable

PBS-PRO-NWP-KIT proximity sensor kit including:

Sensor

Mounting bracket

30' LED cable

(One proximity sensor for scraper)

Signals for strobe light on, scraper down, and spreader controller on to be wired to

SkyHawk system

Supply and install MS Foster Camera Monitor with wash system including:

Voyager VOM719WP 7" LCD Color Monitor

Single image, split screen, or quad view viewing modes

Four camera inputs and six triggers

DC auto source for switching triggers

Backlit control buttons

Built-in audio speaker

Manual/auto day/night display brightness control

VOSHD6MNT Double knuckle monitor mount

Two (2) VCMS24B Cameras: Combines a 1/3" CMOS image sensor and 19 LEDs into compact Construction, Black in color

Two (2) MSF5000 Camera Box: Stainless steel camera box with "U" pivot bracket, (Rev. N 072219)

Truck & Trailer Specialties

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Quote No. DQO005317

2 total Loomed power cables, (1) CEC34L1 and (1) CEC50L1

One camera installed at the top of the streetside dump body pillar

One camera installed on a stainless-steel mounting bracket welded to the bottom of the hydraulic tank on the curbside of the chassis for use with the wing. Mounting bracket to be slotted to allow for some side-to-side adjustment of the camera box

Wash system designed to plug into factory windshield wash, with air puffer components includes:

2 camera wash nozzles with stainless steel bracketry

Two retainers each, with in line check-valves

Momentary switch mounted in cab to operate puffers

Velvac 4-way electric solenoid air valve for air puffers

Airline and wash tube, from front of truck to each camera

5/32 tees to tie into factory wash pump

Miscellaneous:

Modify bottom chassis supplied entry step to allow for scraper clearance, only as needed

Paint front/rear hitch, hoist/hinge mounts, and all unpainted bracketry black in color

Undercoat/rustproof chassis frame from behind the cab back, inside and out, along with crossmembers and rear axles. Includes undercoat/rustproof under side of the dump body

No forward-facing camera or DVR system is included with this quote

Prebuild meeting with City of Portage, Truck & Trailer Specialties, and chassis dealer required before equipment is to be ordered

Above installed Price: \$183,496.00 ea.

Lead time: 16-18 months ARO

Payment Terms: Net 30

Pricing good for: 30 days

Chassis requirements:

CT measurement to be determined at time of order

T/A Western Star 47X SBA

24" ground clearance package

Cummins L9 engine

Front of engine PTO provision

Horizontal DPF system with ground clearance package for underbody scraper installed curbside under cab with vertical stack, includes entry steps for curbside cab access

Two beacon light mount brackets above the cab with LED beacon lights, one each side

Allison 3000 RDS transmission

Column mounted transmission stalk shifter

Quick-fit body lighting connector at end of frame with cap

DEF tank mounted directly behind streetside front fender

Low profile batter box installed behind DEF tank long side to rail

Trailer wiring to rear with 7-way connector

90 Amp service for body builder installed components mounted between seats

24" integral front frame extensions

Omit front bumper

Truck & Trailer Specialties

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Quote No. DQO005317

Front tow hooks

Temporary fuel tank

Switch for upfitter installed plow lights with wiring and dual connections at the front bumper

Six programable switches, and four hardwired switches, all 20 Amp minimum

8 switches on 4CG to be mounted as low as possible on flex panel, no gauges in flex panel

Quick-fit powertrain interface connector located between seats

Changes from last T/A Dump with Slide-in V-box builds:

Asphalt tarp material in lieu of mesh – new standard moving forward

Two **Stainless steel** winches with nylon straps mounted to V-box in lieu of mild steel

(stainless steel winches to be a new standard moving forward)

Standard stainless-steel tip up spinner in lieu of directable spinner

Stainless steel hand winch for use with raising/lowering tip-up spinner assembly

Added closed loop prewet system and related components

Tow Hooks to mount on kicker legs – (No room for bumper cutouts on new model Western Stars)

Kennametal carbide cutting edges on scraper

Carbide curb guards on both ends of scraper moldboard

Grease line kit for paraglide wing post

Included TTWS-NIHARD wing shoes

Included carbide curb guard for wing

Add one D-ring to rear of wing moldboard

PH20 pintle hitch provided loose, in the cab

Added stainless steel “J” hook to fuel tank for use with refueling

Deleted valve section for directable spinner (went with non-directable tip-up spinner)

Added valve section for closed loop prewet system

CS660 spreader controller in lieu of discontinued CS550

6 button Pneu-Logic controller in lieu of 8 button as going with tip up spinner in lieu of directional

Tarp switch mounted to Pneu-logic armrest in lieu of chassis supplied dash mounted switch

Heated LED plow lights in lieu of incandescent

Added forward facing LED amber/green Mpower strobes mounted to plow light brackets

Top beacon strobes installed on chassis provided cab mount brackets in lieu of front side of cab shield

Stainless steel bracket mounted at end of wing to flush mount a dual Mpower LED

amber/green flasher facing rearward, and amber LED marker light facing forward

ILO stainless steel light box

36” gel filled amber/green LED tribal whip installed at end of wing in lieu of 24”

Undercoat/rustproof chassis frame from behind the cab back, inside and out, along with

crossmembers and rear axles. Includes undercoat/rustproof under side of the dump body

Included installing City supplied tire pressure monitor system

Included installing City supplied GPS system

Thank you for the opportunity to quote

Submitted by:

Chad Veenstra/Mike Bouwman

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Traffic Signal Improvements - Bid Tabulation

SUPPORTING PERSONNEL: Kendra Gwin, Director of Transportation & Utilities

ACTION RECOMMENDED: Award a contract for the purchase of traffic signal poles, mast arms and assemblies to J. Ranck Electric, Incorporated, in the not-to-exceed amount of \$98,325 and authorize the City Manager to sign all documents related to the contract on behalf of the city.

The FY 2024-2025 Capital Improvement Program budget includes funding for the replacement of traffic signals at the intersection of West Milham Avenue and Monticello Avenue/Devon Street as part of the 2025 West Milham Avenue Reconstruction Project.

The existing traffic signals on West Milham Avenue have exceeded their serviceable life and require full replacement. The project includes the replacement of obsolete mast arms and upgrades to the signal controller and pedestrian signals. The signal upgrades will enhance traffic safety, interconnection, and traffic flow, as well as provide traffic data and streamline video to the Transportation Operation Center located at Transportation & Utilities.

The approximate 6- to 8-month delivery time for new traffic signal poles, mast arms, and assemblies necessitates that the specialized equipment be ordered well in advance of the start of the construction project to ensure that the materials will be available when needed.

The request for bids was listed in the Kalamazoo Gazette, on the City of Portage Website, on social media, and on BidNet, where 326 contractors were matched and notified of the bid opportunity. Additionally, six known suppliers were notified via email. On December 5, 2024, two bids were received for the mast arms and poles. The bid prices are in line with the anticipated costs. J. Ranck Electric is the supplier of mast arms and poles for Maico Industries, Incorporated, and supplied the mast arms and poles for the 2024 Portage Road project.

It is recommended that City Council award a contract to J. Ranck Electric, Incorporated, in the not-to-exceed amount of \$98,325 for the purchase of traffic signal poles, mast arms, and assemblies for a traffic signal installation and authorize the City Manager to execute all documents related to the contract on behalf of the city.

FUNDING: Sufficient funding exists in the FY 2024-2025 Capital Improvement Program Budget.

Attachments: 1. Traffic Signal Improvements - Bid Tabulation

**2024 RFB MAST ARMS AND POLES
BID TABULATION**
BID OPENING ON DECEMBER 5, 2024 AT 3 PM

J. Ranck Electric, Inc.	\$	98,325.00
1993 Gover Parkway		
Mt. Pleasant, MI 48858		

Severance Electric Co., Inc.	\$	100,433.66
7076 E N Ave		
Kalamazoo, MI 49048		

Opened by: _____



Victoria Barboza, Purchasing Manager

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Proposed 2025 Fee Schedules

SUPPORTING PERSONNEL: Erica Eklov, City Clerk
Peter Dame, Chief Development Officer
Kendra Gwin, Director of Transportation & Utilities
Kathleen Hoyle, Director of Parks & Recreation
Kimberly Phillips, Director of Senior Citizen Services

ACTION RECOMMENDED: Adopt the:

- a. 2025 Proposed Freedom of Information Act fees,
- b. 2025 Proposed Community Development and Building Permit fees,
- c. 2025 Proposed Recreation and Park Facility fees, and
- d. 2025 Proposed Special Assessment Rates.

Service, permit, and activity fees have historically been updated and implemented on a calendar year basis following an annual administrative review of fees for various city services and activities, as well as special assessment rates. Proposed fee modifications for the 2025 calendar year are recommended to facilitate continued service provision and to maintain the financial health of the city. The recommended fee modifications for 2025 are based on service cost considerations. A comprehensive listing of all recommended fee changes for 2025 is attached and detailed below.

Charges for Documents (FOIA) Fee Schedule

Under the Freedom of Information Act 442 of 1976 (FOIA), municipalities are allowed to recover costs incurred in providing certain documents for public purchase. Fees for FOIA requests are periodically revised to reflect actual costs for providing materials. The fee schedule continues to be updated to remove any compact disc notations, instead highlighting the digital file option, especially with the increased public use of the JustFOIA management platform. A review of fees has also been completed. **There are minor updates to reflect current file availabilities, as well as a correction to the citywide property database file charge to follow state requirements and mirror other local jurisdictions** (Attachment: Clerk - 2025 FOIA Fees Schedule).

Community Development Fees for Service

The annual review of Community Development service fees (Planning, Development and Neighborhood Services, and Building and Housing Services) has been conducted. **Community Development is recommending minor adjustments to fees.** City Council members indicated smaller incremental increases on a regular basis are preferred rather than larger, less frequent increases in fees. Considering

these comments, minimal changes are recommended as noted below.

- **Planning, Development, and Zoning Fees:** Planning, Development, and Zoning Services staff have completed an analysis of the Planning and Zoning fee schedule. The costs associated with the Master (Comprehensive) Plan Amendment and Noxious Weeds & Grass Abatement need to be clarified.
 - **Master (Comprehensive) Plan Amendment:** the proposed fees are consistent with Zoning Amendment fees and any consultant service cost. The Master Plan updating process is complex; the city will update it every five years per state act. Master Plan Amendment requests are rarely received; however, this function will remain for a property owner to amend the Master Plan if needed for more suitable development for their property or properties. The proposed fees are as follows:
 - Master Plan Map Amendment - \$1,243 for the first acre; then \$88 for each additional acre or fraction thereof, plus consultant fee
 - Master Plan Text Amendment - \$935 per amendment, plus consultant fee
 - **Noxious Weed & Grass Abatement:** the proposed fees are not increased but are being revised to clarify the costs associated with mowing and include debris removal. The proposed Weed & Grass fees are as follows:
 - \$200 minimum for less than 0.25 acres (e.g., subdivision median island, etc.)
 - \$350 for 0.25 acres up to one acre
 - \$750 per acre and incremental cost of \$200 for each additional 0.25 acre or fraction thereof
 - The proposed Debris Removal fees include the proper removal and disposal of trash and debris off-site, disposal fees, plus onsite City staff administration fee, detailed as follows:
 - Special Equipment - minimum one (1) hour charge pre-approved by City staff
 - \$25 per person plus disposal fees, which include actual costs of landfill or on-site dumpster pre-approved by city staff, plus \$25 trace fee for 1 care member, plus on-site city staff administration fee

Except for the recommended fees noted above, **no other modifications to the current Department of Community Development fee schedule are recommended.** (Attachments: Comm Dev - 2025 Recommended Fees Memo, Comm Dev - 2025 Building Permit Fees Resolution, Comm Dev - 2025 Community Development Fees Resolution)

Recreation and Park Facility Fees

Fee schedules for recreation programs and park facilities are reviewed yearly to ensure that programs offered can meet public demand in a cost-effective manner and continue to promote the quality of life within the community. **Changes and additions to the existing recreation and park facility fees are recommended for 2025 as indicated below.** (Attachment: Parks & Rec - 2025 Recreation & Facility Fee Recommendations)

- **Farmers Market:**
 - The Seasonal Vendor Fee is proposed to increase by 11% (from \$325 to \$360) to help offset costs and bring our market closer to what other nearby markets are charging. For reference:
 - Kalamazoo charges \$525 for the vendors who set up their own tents.

- Texas Township charges \$576.
- Vicksburg charges \$257.
- The Seasonal Vendor Additional Booth Fee is proposed to increase by 11% (from \$162 to \$180) so that the percentage discount for 2nd and 3rd booths remains the same in relation to the Seasonal Vendor fee.
 - Currently, an extra booth costs 50% of the price of the first booth. The increase would preserve that relationship.
- The Daily Vendor Fee is proposed to increase from \$20 to \$25 to encourage food-producing vendors to become seasonal vendors for a lower seasonal cost (\$600 using the Daily Fee for 24 weeks vs. \$360 using the Seasonal Fee). For reference:
 - Kalamazoo charges \$50 per day
 - Texas Township charges \$25 per day
 - Vicksburg charges \$22 per day
- The Holiday and Arts & Craft Market vendor fees are also proposed to increase from \$20 to \$25 to be consistent with the Daily Vendor Fees at the Farmers Market.

Special Assessment Rates

On May 21, 1991, City Council adopted a Special Assessment Policy Resolution that established funding rations for utility and street construction projects. The policy also provided for periodic review and amendment of special assessment rates by resolution of the Council. Through the practice of special assessment, a share of project costs is charged to property owners receiving the primary benefit of the improvement. The practice of special assessment is a critical component of Portage city financing and has been a primary factor in the continued excellent financial health of the city.

On November 7, 2006, Portage voters approved a street millage proposal that eliminated street special assessments on projects initiated by City Council. Street assessments will still be levied on street projects petitioned by affected and benefiting property owners. Approval of the street millage proposal also eliminated the street reconstruction portion of the special assessment rate for the installation of new sanitary sewers. Any street improvement project or sanitary sewer project approved prior to November 7, 2006, whether it was a special assessment district or an extension district, was not affected by the approval of the street millage proposal. **A Special Assessment Rate Resolution reflecting the proposed rates for 2025 is provided for the consideration of Council.** (Attachment: T&U - 2025 Special Assessment Rate Resolution)

FUNDING: Not applicable.

- Attachments:**
1. Clerk - 2025 FOIA Fees Schedule
 2. Comm Dev - 2025 Recommended Fees Memo
 3. Comm Dev - 2025 Building Permit Fees Resolution
 4. Comm Dev - 2025 Community Development Fees Resolution
 5. Parks & Rec - 2025 Recreation and Facility Fee Recommendations
 6. T&U - 2025 Special Assessment Rate Resolution

CITY OF PORTAGE 2025 CHARGES FOR DOCUMENTS (FOIA FEES) - PROPOSED

ORIGINATING DEPARTMENT	DOCUMENT TITLE	CURRENT CHARGE	PROPOSED	ONLINE AVAILABILITY
Finance	Budget (Paper copy)	\$0.10/pg + *	SAME	Available Online
		Plus Mailing		
	Budget CD - digital	\$0.38*	SAME	Available Online
		Plus Mailing		
	Annual Comprehensive Financial Report (Paper Copy)	\$0.10/pg + *	SAME	Available Online
		Plus Mailing		
	Annual Comprehensive Financial Report CD - digital	\$0.38	SAME	Available Online
		Plus Mailing		
	Full Electronic Copy of Citywide Property Tax File	\$500.00	SAME	Only individual parcels available online.
	Tax Payment Receipts (duplicates requested other than time of payment)	No Charge	SAME	Available Online
	Individual Parcel Look-up Online	No Charge	SAME	Available Online
	Special Assessment/Tax History on computer (since 2004)	No Charge	SAME	Available Online
	Special Assessment/Tax History not on computer (prior to 2004)	No Charge	REMOVE	Not Online. Record Retention schedule is "CR (creation record) +20 years." Records purged in 2024.
	Utility Bill History Information (upon availability)	No Charge	SAME	Not Available Online Available Online to Account Holders
Assessor	Property Record Card/Property Record Data	No Charge	SAME	Available Online
	Historical Property Record Card	No Charge	SAME	Not Available Online
	Sales Study Report	\$0.10/pg + *	SAME	Available Online
	Annual Database Download for Realtors Assn.	No Charge	SAME	Not Available Online
	Full Electronic Copy of Citywide Assessment Roll	\$50.00	Staff Time to Compile*	Individual parcels available online.
Purchasing	Bid Specifications (First copy)	No Charge	SAME	Available Online
	Contract Conditions & Specifications	No Charge	SAME	Available Online
	Additional Copy	\$0.10/pg + *	SAME	
City Clerk	City Charter	\$2.40	SAME	Available Online
	Precinct Maps (Color)	\$6.00	SAME	GIS Mapping Service Available Online
	Council Minutes and Agendas	No charge	SAME	Prior Year Available Online
	Council Agenda Packets	\$0.10/pg + *	SAME	Prior Year Available Online
	Advisory Board Minutes	No Charge	SAME	Prior Year Available Online
	Advisory Board Agenda Packets	\$0.10/pg + *	SAME	Prior Year Available Online
	Qualified Voter Information - Electronic Only	No Charge	SAME	Not Available Online
	Daily Absent Voter List (ongoing request)	\$10.00	SAME	Not Available Online
	City of Portage Flag	\$40	SAME	Not Available Online
	Environmental Site Assessment Request	\$30	SAME	Various

CITY OF PORTAGE 2022 CHARGES FOR DOCUMENTS (FOIA FEES)

ORIGINATING DEPARTMENT	DOCUMENT TITLE	CURRENT CHARGE	PROPOSED	ONLINE AVAILABILITY
Human Resources	Employee Records - If Available to employee or designee		SAME	Not Available Online
	1st Copy	No Charge	SAME	
	2nd copy	\$0.10/pg + *	SAME	
	To non-employee	\$0.10/pg + *	SAME	
Fire	EMS Reports	\$0.10/pg + *	SAME	Not Available Online
	Environmental Impact Statements	\$0.10/pg + *	SAME	Not Available Online
	NFIRS Reports	\$0.10/pg + *	SAME	Not Available Online
	Research	*	SAME	Not Available Online
	Digital Photos to Disc	*	SAME	Not Available Online
Police	POLICE REPORTS:			Not Available Online
	Minor Incident Report	\$0.10/pg + *	SAME	
	Up to 20 pages	\$0.10/pg + *	SAME	
	From 21-40 pages	\$0.10/pg + *	SAME	
	From 41-60 pages	\$0.10/pg + *	SAME	
	Accident Reports:			Not Available Online
	UD-10 Form	\$0.10/pg + *	SAME	Not Available Online
	w/supplemental Info up to 20 pages	\$0.10/pg + *	SAME	
	From 21-40 pages	\$0.10/pg + *	SAME	
	From 41-60 pages	\$0.10/pg + *	SAME	
	Over 60 pages	\$0.10/pg + *	SAME	
	Police Reports Facsimile Charge	No Charge	SAME	Not Applicable
	Photographs			Not Available Online
	Booking Photo	\$0.38 + *	SAME	Not Available Online
	Booking Room Videos, Lobby Videos,	\$0.38 + *	SAME	Not Available Online
	Interview Videos, Evidence Videos and	\$0.38 + *	SAME	
	Mobile Video Digital Recordings	\$0.38 + *	SAME	
	*Digital Photos to Disc	\$0.38 + *	SAME	Not Available Online
	Visa Clearance	\$11.00	SAME	Not Available Online
	Audio Tapes	\$0.38 + *	SAME	Not Available Online
	Non-criminal Fingerprints			Not Available Online
	Resident or Portage Business	\$8.00/card	SAME	
	Non-resident	\$15.00/card	SAME	
	Application to Set Aside Conviction Permit	Through Court	SAME	Not Available Online
	Bond Fee	\$10.00	SAME	

CITY OF PORTAGE 2022 CHARGES FOR DOCUMENTS (FOIA FEES)

ORIGINATING DEPARTMENT	DOCUMENT TITLE	CURRENT CHARGE	PROPOSED	ONLINE AVAILABILITY
Community Development (Maps, plans, tracings, plats, etc.)	PAPER FORMAT - IN COLOR:			
	8 x 11 ("A" size) without Aerial	\$1.00	SAME	Available as part of GIS Mapping Service
	11 x 17 ("B" size) without Aerial	\$2.00	SAME	Available as part of GIS Mapping Service
	18 x 24 ("C" size) without Aerial	\$3.00	SAME	Available as part of GIS Mapping Service
	24 x 36 ("D" size) without Aerial	\$5.00	SAME	Available as part of GIS Mapping Service
	30 x 30 ("E" size) without Aerial	\$10.00	SAME	Available as part of GIS Mapping Service
	8 x 11 ("A" size) with Aerial	\$2.00	SAME	Available as part of GIS Mapping Service
	11 x 17 ("B" size) with Aerial	\$5.00	SAME	Available as part of GIS Mapping Service
	18 x 24 ("C" size) with Aerial	\$10.00	SAME	Available as part of GIS Mapping Service
	24 x 36 ("D" size) with Aerial	\$20.00	SAME	Available as part of GIS Mapping Service
	30 x 30 ("E" size) with Aerial	\$25.00	SAME	Available as part of GIS Mapping Service
	Building Plan/Site Plan (24x36)	\$5.00/sheet	SAME	Not Available Online
	(copyright restrictions may apply)			
	Planning and Zoning Code with Land Development Regulations	\$0.10/pg + *	SAME	Available Online
	Zoning Map, Future Land Use Map (11x17)	\$5.00	SAME	Available as part of GIS Mapping Service
	Zoning Map, Future Land Use Map (24x36)	\$10.00	SAME	Available as part of GIS Mapping Service
	Subdivision and Land Division Regulations	\$0.10/pg + *	SAME	Available Online
	Comprehensive Master Plan	\$0.10/pg + *	SAME	Available Online
	Comprehensive Master Plan - CD digital	\$0.38 + *	SAME	Available Online
	Major Thoroughfare Plan Status update	\$0.10/pg + *	SAME	Available Online
	Capital Improvement Program (CIP)	\$0.10/pg + *	SAME	Available Online
	Capital Improvement Program (CIP) - CD digital	\$0.38 + *	SAME	Available Online
	Property Notification Address List	\$20.00	SAME	Available Online
	CDBG Consolidated Plan	\$0.10/pg + *	SAME	Available Online
	CDBG Annual Action Plan	\$0.10/pg + *	SAME	Available Online
	Analysis of Impediments to Fair Housing Study	\$0.10/pg + *	SAME	Available Online
	DIGITAL FORMAT:			
	Digital Aerial Photo of City (one foot pixel resolution)	\$40/section	SAME	Available as part of GIS Mapping Service
	Digital Aerial Photo of Entire City - All Sections	\$750.00	SAME	Available as part of GIS Mapping Service
	Digital Topographic Maps	\$25/quarter section	SAME	Available as part of GIS Mapping Service
	All 36 Sections	\$1,500.00	SAME	Available as part of GIS Mapping Service
	Digital (GIS) Map Layers (streets, hydrology, zoning, etc.)	\$0.00	SAME	Available as part of GIS Mapping Service

CITY OF PORTAGE 2022 CHARGES FOR DOCUMENTS (FOIA FEES)

ORIGINATING DEPARTMENT	DOCUMENT TITLE	CURRENT CHARGE	PROPOSED	ONLINE AVAILABILITY
Community Development	Digital (GIS) Parcel Map Layer	\$0.10/parcel	SAME	Available as part of GIS Mapping Service
(cont'd)		\$25 minimum	SAME	
		\$750 maximum	SAME	
	Custom Mapping	*	SAME	Available as part of GIS Mapping Service
	Building/Site Plan e-mailed	*	SAME	Not Available Online
	(copyright restrictions may apply)		SAME	
Technology Services	Compact Disk	\$0.38 + *	REMOVE	Not Applicable
	DVD Productions (copy of)	\$0.38 + *	REMOVE	Not Applicable
	USB Flash Drive - 16GB	\$8 + *	SAME	Not Applicable
	USB Flash Drive - 32GB	\$15 + *	SAME	Not Applicable
	USB Flash Drive - 64GB	\$22 + *	SAME	Not Applicable
	Research	*	SAME	

* NOTE: Charge per document is \$0.10/page, labor costs and up to 50% of the hourly wage for benefit costs of lowest paid individual capable of performing the work, plus mailing costs.
For requests involving in excess of 15 minutes of staff time, the charge will be based on the nearest quarter-hour increment after the first quarter hour rounded down.

TO: Pat McGinnis, City Manager**DATE:** November 21, 2024**FROM:** Peter Dame, Chief Development Officer
**SUBJECT:** 2025 Community Development Fees for Services**I. INTRODUCTION**

The annual review for Community Development service fees (Planning, Development and Zoning Services, and Building and Housing Services) has been accomplished. Community Development is only making minor adjustments to fees.

City Council members indicated smaller incremental increases on a regular basis are preferred rather than larger, less frequent increases in fees. Considering these comments, minimal changes are recommended.

The following is an analysis of the proposed 2025 Community Development Fees for Services.

II. ADMINISTRATIVE COSTS--OVERVIEW

The actual cost to process development applications (e.g. staff resources, legal notices, direct mailing and copy expenses) has again been reviewed and the online application process has been successful in streamlining administrative processes. There are no cost increases at this time.

III. PLANNING, DEVELOPMENT AND ZONING SERVICES

Planning, Development and Zoning Services staff have completed an analysis of the Planning and Zoning fee schedule. The clarification of the costs associated with Master (Comprehensive) Plan Amendment and Noxious Weeds & Grass Abatement are needed.

Master (Comprehensive) Plan Amendment: the proposed fees are to be consistent with Zoning Amendment fees with any cost for consultant services. Master Plan updating process is complex, and the City will update it every 5 years per state act. Master Plan Amendment request is rarely received. However, this function will be remained for a property owner to amend Master Plan if needed for more suitable and better development for their property(ies).

The proposed fees are as follows:

Master Plan Map Amendment - \$1,243 for the first acre; then \$88 for each additional acre or fraction thereof, plus consultant fee

Master Plan Text Amendment - \$935 per amendment, plus consultant fee

Tall Grass & Weed Mowing: the proposed fees are not increased but to clarify the costs associated with mowing and include debris removal.

The proposed Tall Grass & Weed Mowing fees are as follows:

\$200 minimum for less than 0.25 acre (e.g. subdivision median island, etc.)

\$350 for 0.25 acre up to one acre

\$750 per one acre and incremental cost of \$200 for each additional 0.25 acre or fraction thereof.

The proposed Debris Removal fees include the proper removal and disposal of trash and debris off-site, disposal fees, plus onsite City staff administration fee, detailed as follows:

Special Equipment - minimum one (1) hour charge pre-approved by City staff.

\$25/per person plus disposal fees which include actual costs of landfill or on-site dumpster pre-approved by City staff, plus \$25 travel fee for 1 crew member, plus onsite City staff administration fee.

IV. CONSTRUCTION SERVICES

The Department of Community Development is also responsible for administration and enforcement of the Michigan State Construction Codes through construction project plan review, permit issuance, project inspections and the issuance of certificates of occupancy. Construction permit fees are based on analysis and expenditure review in conjunction with permit and processing costs, plan review services, project field inspections, customer consultations, final occupancy review and issuance as well as record retention. Community Development is not making any increases related to construction services.

V. CONCLUSION / RECOMMENDATION

Except for the fee noted above, no other modifications to the current Department of Community Development fee schedule are recommended. Should you have any questions or comments, I am prepared to further discuss this matter at your convenience.

Attachments: Fee Resolution

c: Deputy Director Biqi Zhao
Deputy Director Terry Novak
Deputy Director Jonathon Hallberg

T:\COMMDEV\2024-2025 Department Files\Memos\Manager\2024 11 19 CD Fee Recommendation with signature.docx

**CITY OF PORTAGE
RESOLUTION ESTABLISHING FEES FOR BUILDING PERMITS**

Minutes of a regular meeting of the City Council for the City of Portage, Michigan held
on _____, _____ at _____ p.m. in the City Hall in the City of Portage,
Michigan.

PRESENT: _____

ABSENT: _____

The following resolution was offered by:

Councilmember: _____, and supported by:

Councilmember: _____.

WHEREAS, under the Building Code for the City of Portage, it is necessary for the
Council to establish by resolution fees for permits;

NOW, THEREFORE, BE IT RESOLVED: That the following fees are hereby established
for building permits in the City of Portage:

PERMIT FEES: All permit requests shall include a nonrefundable administrative fee of \$50 per
permit in addition to the costs listed below.

Residential¹

Total Valuation:

Fee:

Up to \$2,000

Minimum fee of \$50.00

\$2,001 to \$25,000

Minimum fee of \$50. 00 or \$31.41 for the first
\$2,000 plus \$5.45 for each additional \$1,000
or fraction thereof, to and including \$25,000

\$25,001 to \$50,000

\$156.76 for the first \$25,000 plus \$4.02 for
each additional \$1,000 or fraction thereof, to
and including \$50,000

\$50,001 to \$100,000

\$257.26 for the first \$50,000 plus \$2.80 for
each additional \$1,000 or fraction thereof, to
and including \$100,000

¹ The building permit fee is based upon the Building Valuation Data from the International Code Council.

\$100,001 to \$500,000	\$397.26 for the first \$100,000 plus \$2.24 for each additional \$1,000 or fraction thereof, to and including \$500,000
\$500,001 to \$1,000,000	\$1,293.26 for the first \$500,000 plus \$1.89 for each additional \$1,000 or fraction thereof, to and including \$1,000,000
\$1,000,000 and up	\$2,238.26 for the first \$1,000,000 plus \$1.47 for each additional \$1,000 or fraction thereof

Commercial²

Up to \$2,000	Minimum fee of \$65.00 or \$26.82 for the first \$500 plus \$3.49 for each additional \$100 or fraction thereof, to and including \$2,000
\$2,001 to \$25,000	\$79.17 for the first \$2,000 plus \$16.02 for each additional \$1,000 or fraction thereof, to and including \$25,000
\$25,001 to \$50,000	\$447.63 for the first \$25,000 plus \$11.55 for each additional \$1,000 or fraction thereof, to and including \$50,000
\$50,001 to \$100,000	\$736.38 for the first \$50,000 plus \$8.01 for each additional \$1,000 or fraction thereof, to and including \$100,000
\$100,001 to \$500,000	\$1,136.88 for the first \$100,000 plus \$6.41 for each additional \$1,000 or fraction thereof, to and including \$500,000
\$500,001 to \$1,000,000	\$3,700.88 for the first \$500,000 plus \$5.44 for each additional \$1,000 or fraction thereof, to and including \$1,000,000
\$1,000,000 and up	\$6,420.88 for the first \$1,000,000 plus 4.18 for each additional \$1,000 or fraction thereof

Other Construction Related Permits

Residential Driveway, Curb Cut, and Sidewalk Permits	\$25.00
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² The building permit fee is based upon the Building Valuation Data from the International Code Council.

Commercial Driveway, Curb Cut, and Sidewalk Permits	\$40.00
Irrigation in right-of-way	\$25.00
Swimming Pools	\$55.00
Use of outside consultants for plan checking, inspections, etc.	Actual cost
Application to Construction Board of Appeals (Building, Mechanical, Electrical, Plumbing)	\$105.00
Inspections for which no fee is specifically indicated (1 hour minimum)	\$63.00/hr.
Certificate of Occupancy Fee (for changes in occupancy classification per Building Code when no plan review is required)	\$155.00
Building Plan Review (for commercial projects with a valuation over \$10,000.00)	\$210.00 or .02 per sq. ft., whichever is greater
Reinspection fees assessed (assessed when inspection requested and work not completed - 1 hour minimum)	\$63.00/hr
Inspection outside normal business hours	\$75.00/hr. (1-hr. minimum)
Investigation fee	Whenever work for which a permit is required by this code has been commenced without first obtaining said permit, a special investigation shall be made before a permit may be issued for such work. The investigation fee shall be in addition to the permit fee and shall be based upon the staff investigation time required to ensure code compliance, charged at the hourly inspection rate. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.
Fire Suppression Systems	\$0.75/head with a minimum fee of \$25
Data/Telecommunications Outlets	1-19 outlets at \$5/each 20-300 outlets at \$100 >300 outlets at \$300

Electrical Energy Components
(such as generators, motors, solar, wind
turbines, electric vehicle supply equipment)

\$6 – Units up to 20 KVA/KW or HP/Per PV
Module
\$10 – Units 21-50 KVA/KW or HP/Per PV
Module
\$12 – Units over 51 KVA/KW or KP/Per PV
Module

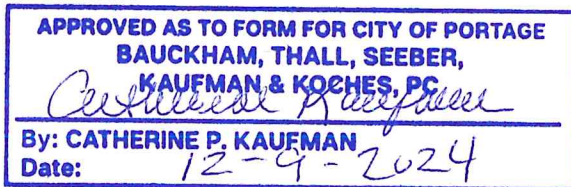
All resolutions or parts of resolutions are, to the extent of any conflict with this resolution,
rescinded.

AYES: Councilmember _____

NAYS: Councilmember _____

ABSENT: Councilmember _____

EFFECTIVE DATE: _____



Erica Eklov City Clerk

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of this resolution adopted
at a regular meeting of the City Council of the City of Portage, Kalamazoo County, Michigan
held on _____, _____, the original of which is in the official proceedings of the City
Council.

Erica Eklov, City Clerk

**CITY OF PORTAGE
RESOLUTION FOR COMMUNITY DEVELOPMENT FEES**

Minutes of a regular meeting of the City Council for the City of Portage, Michigan held on

_____ , _____ at _____ p.m. in the City Hall in the City of Portage, Michigan.

PRESENT: _____

ABSENT: _____

The following resolution was offered by:

Councilmember: _____ , and supported by:

Councilmember: _____ .

WHEREAS, under the Community Development Fees for the City of Portage, it is necessary for the Council to establish by resolution rates for permits, planning and zoning services, and administrative fees;

NOW, THEREFORE, BE IT RESOLVED: That the following rates are hereby established for community development fees in the City of Portage:

<u>SERVICE</u>	<u>FEE</u>
1. Access Management Appeal	\$374 per appeal
2. Accessory Buildings	\$308 per application
3. Accessory Dwelling Units (ADU)	\$110 per application \$110 document recording fee
4. Accessory Use - Keeping of chickens	\$55 per application
5. Brownfield Redevelopment Plan or Amendment	Variable fee schedule, see below
6. Brownfield Redevelopment Plan (Kalamazoo County Plan)	\$1,200 per application
7. Building Height Modification	\$374 per request involving action only by the Planning Commission \$627 per request involving action by the Planning Commission and City Council
8. Business Special Event	\$121 per application

9. Collection Box Application * Annual Renewal Fee	\$110 per application \$55 annually
10. Master Plan Amendment	Map - \$1,243 for the first acre; then \$88 for each additional acre or fraction thereof, plus consultant fee Text - \$935 per amendment, plus consultant fee
11. Debris Removal	Special Equipment – minimum one (1) hour charge pre-approved by City staff \$25/per person plus disposal fees which include actual costs of landfill or on-site dumpster pre-approved by City staff, plus \$25 travel fee for one (1) crew member, plus onsite City staff administration fee
12. Development Plan Scanning	\$33 for the first 20 sheets, plus \$1/sheet thereafter
13. Home Occupation Permit - Active	\$170 per permit
14. Industrial Tax Abatement	2 percent of the total property taxes abated or \$2,040, whichever is less
15. Land Division	\$170 plus \$11 for each "child" parcel over two
16. Lot Line Adjustment	\$110 per application
17. Mural Permit	\$121 per mural application
18. Noxious Weed Abatement	Documented cost of the abatement plus an administrative fee of \$220 per zoning lot
19. Nuisance Abatement	Documented cost of the abatement, plus an administrative fee of \$385, plus \$71 /hour or fraction thereof of staff to complete the abatement
20. Parking Modification	\$385 per application
21. Parking Plans	\$187 base fee and \$5 per 500ft ² of parking area
22. PILOT (Payment in lieu of taxes)	\$847 per application

23. Planned Development Tentative Plan	\$627 per tentative plan plus the rezoning fee
24. Commercial Planned Development Concept Plan	\$935 per conceptual plan \$627 per conceptual plan if processed concurrently with rezoning application \$253 per conceptual plan if combined with a specific plan and less than 10 acres
25. Planning and Zoning re-inspection fee	\$71 per hour (1-hour minimum fee)
26. Public Utility Plan	\$286 for one utility \$396 for more than one utility \$55 per easement document (review/record fee)
27. Sign Permits	\$121 per permanent freestanding sign application \$121 per permanent wall sign application \$60 per temporary or directional sign application \$60 per permanent freestanding or wall sign application for sign panel change to existing sign, where no structural sign modifications are proposed
28. Single-family Condominium – Preliminary Approval	\$500 plus \$25 per lot
29. Single-family Condominium – Final Preliminary Approval	\$748 plus \$25 per lot
30. Single-family Condominium – Final Approval	\$748 plus \$44 per lot
31. Single-family Plat – Preliminary Approval	\$440 plus \$22 per lot
32. Single-family Plat – Final Preliminary Approval	\$660 plus \$22 per lot
33. Single-family Plat – Final Approval	\$660 plus \$38 per lot
34. Small On-site Wind Energy Systems	\$143 per application

- | | | |
|-----|---|--|
| 35. | Special Land Use Permit | \$253 per group childcare home application
\$374 for all others |
| 36. | Special meeting of the Planning Commission or Zoning Board of Appeals | \$253 per request |
| 37. | Street Vacation or Land Sale | \$935 per application |
| 38. | Tall Grass and Weed Mowing | \$750 per one acre and incremental cost of \$200 for each additional ¼ acre or fraction thereof
\$350 for ¼ acre up to one acre
\$200 minimum for less than ¼ acre (e.g., median islands etc.) |
| 39. | Zoning Amendment | Map - \$1,243 for the first acre; then \$88 for each additional acre or fraction thereof
Text - \$935 per amendment |
| 40. | Zoning Board of Appeals | \$154 for all one-family residential uses
\$374 for all others |
| 41. | Zoning Compliance Review | \$55 per general zoning review/day care license
\$110 per lot line adjustment
\$170 for state license zoning review/annual renewals |
| 42. | Site Plan Review | Variable base fee plus unit/square footage charges as follows: |

<u>Use¹</u>	<u>Zoning Classification</u>	<u>Fee^{2 3}</u>
Multiple Family	R-1T; RM-1; RM-2	\$440 + \$12/dwelling unit
Planned Development	PD	\$440 + \$12/dwelling unit \$407 + \$6/100 sq. ft. gross floor area (commercial) exclusive of basement space \$495 + \$6/500 sq. ft. gross

¹ Use is defined as the principal purpose for which land or building is arranged, designed or intended, or for which land or a building is or may be occupied.

² Additions to existing structures up to 50% of the existing floor area within previously approved site plans or site plans involving phased developments (after initial phase) are to be charged at a rate one-half that of the applicable site plan review fee. Dwelling unit, square footage and/or acreage charges will remain unchanged.

³ Re-approval of a site plan shall be charged at one-half the applicable site plan review fee if application is made within 18 months of the previous City Council, Planning Commission or City Administration approval.

		floor area (industrial) exclusive of basement space
Mobile Home Community	MHC	\$440 + \$12/Mobile Home Unit
Commercial	OS-1; OTR; B-1; B-2; B-3; CPD; CCA; CCMU	\$407 + \$6/100 sq. ft. of gross floor area, exclusive of basement space.
Institutional	R-1A through R-1 D; R-1T RM-1; RM-2; PD	\$440 + \$6/100 sq. ft. of gross floor area, exclusive of basement space.
Industrial	I-1; I-2; OTR	\$500 + \$6/500 sq. ft. of gross floor area, exclusive of basement space.
Recreational (golf courses and other open space type recreational uses)	R-1 A through R-1 D; PD	\$466 + \$12/acre over 3 acres

Brownfield Redevelopment Plan or Amendment Fees

A. Application Fee

The amount of the application fee shall comprise 0.1 % of the total anticipated capital investment, up to a maximum fee of \$10,000.

- *For example, the application fee for a project requesting tax increment financing for a \$5,000,000 development project would be \$5,000.*

B. Legal Fees

Legal fees related to a brownfield application submittal to the City are covered by the application fee and administrative fee. For any additional legal support provided by the City or Authority related to a brownfield application submission to the State of Michigan, the applicant will be billed directly by the City's legal counsel. All invoices must be paid in full before a letter of support or testimony will be provided to the Michigan Strategic Fund and/or the Department of Environment, Great Lakes, and Energy.

C. Fees for Assignments

If the Developer requests an assignment of its rights and interest in the tax increment revenues generated by the project, the following fees will apply:

- \$1,200 if the assignment is to a lending institution
- \$3,000 if the entire project is being assigned to a new entity

D. Other Fees

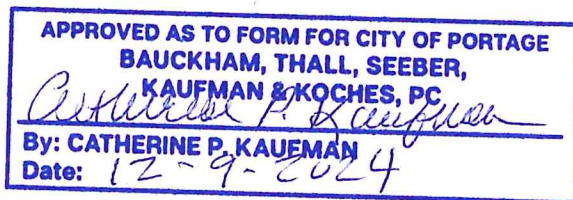
1. The applicant must agree to pay any fees incurred by the Brownfield Redevelopment Authority from a participating lending institution.
2. \$1,200 fee for the assignment of an agreement, or an amendment to an existing agreement or plan.

AYES: Councilmember _____

NAYS: Councilmember _____

ABSENT: Councilmember _____

EFFECTIVE DATE: _____



Erica Eklov, City Clerk

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of this resolution adopted at a regular meeting of the City Council of the City of Portage, Kalamazoo County, Michigan held on _____, _____, the original of which is in the official proceedings of the City Council.

Erica Eklov, City Clerk

2025 RECREATION & PARK FACILITY FEE

RECOMMENDED REVISIONS

ACTIVITY	CURRENT	2025 (Proposed)
Adult Softball Leagues-Summer (12 games)		
Resident team fee	\$600	
Non-resident team fee	\$700	
Late registration fee	\$50	
Over 50 teams	\$700	
Doubleheader teams	\$1070	
Team conduct violation	\$20	
Adult Softball Leagues-Fall (7 games)	\$400	
Late registration fee	\$0	
City Tournament Refundable Deposit	\$50	
Additional Softball Purchase		
½ dozen	\$25	
Dozen	\$50	
Ramona Park Vehicle Permits		
Non-resident Daily pass	\$10	
Non-resident Annual pass	\$45	
Daily Bus pass	\$50	
Kayak, Paddleboard, Canoe Rental (per hour)	\$12	
Additional Half Hour	\$5	
Half Day (4-6 hours)	\$36	
Chair Rental (2 hours)	\$5	
Beach Games (1 hour)	\$5	
The Ice Rink @ Millennium Park		
Skate fee per person	\$5	
Skate Rental	\$3	
Skate Sharpening	\$5	
10 Skate Discount Card	\$25	
Group Rental – 1 ½ hours	\$110	
Food Truck Permit Fee	\$200/Year	
Events	\$100 Large \$50 Small/New	
Tournaments	\$100	
Park Site Spot	\$25	
Farmers Market		
Daily Vendor Fee	\$20	\$25
Season Fee	\$325	\$360
Season Fee – Oversized Stall	\$485	Eliminate
Season Fee – Additional Stall Space	N/A	\$180/space
Kid's Market Fee	\$5	
Holiday/Arts & Craft Market Fee	\$20	\$25
FOOTBALL, SOCCER FIELDS & VOLLEYBALL		
Weekend Tournaments		
Field/Day non-profit	\$210	
Field/Day profit	\$325	
Deposit	\$100	
Camps, Clinics, and League Play		
Field per 4 hrs non-profit	\$80	
- Additional hourly fee non-profit	\$10	

2025 RECREATION & PARK FACILITY FEE

RECOMMENDED REVISIONS

Field per 4 hrs profit	\$130	
- Additional hourly fee profit	\$20	
*Volleyball-Lakeview Only M-W after 5:00 p.m.		
Team Practice Reservation Fee		
Field rental per hour	\$15	
PICKLEBALL COURTS		
Tournaments Only		
6 Courts/day	\$325	
12 Courts/day	\$600	
Deposit	\$100	
SOFTBALL FIELDS		
Slow Pitch Softball Tournaments		
Field/Day – Non-Profit	\$75	
Field/Day – Profit	\$90	
Field Prep	\$65	
Deposit	\$100	
Fast Pitch Softball Tournaments		
Field/Day – Non-Profit	\$75	
Field/Day – Profit	\$90	
Field Prep	\$80	
Deposit	\$100	
Practice Field Reservation		
Per hour	\$15	
PARKS & RECREATION BUILDING RENTALS		
Multi-Purpose Room (3 Hours-Minimum Rental)	\$190	
Each Additional Hour	\$45	
Maximum Daily Rental (10 Hours)	\$400	
Refundable Security Deposit	\$150	
Non-profit Hourly Fee	\$24	
Conference Room (3 Hours – Minimum Rental)	\$75	
Each Additional Hour	\$20	
Maximum Daily Rental (10 hours)	0	
Refundable Security Deposit	\$150	
Non-profit Hourly Fee	\$12	
Commercial Kitchen -		
Monthly Membership		
Non-Member Hourly Rental		
Member Hourly Rental		
Equipment Fee (Monitor/PA)	\$15	
Weekend Snowplow Fee	\$75	

2025 RECREATION & PARK FACILITY FEE

RECOMMENDED REVISIONS

SCHRIER PARK RENTAL		
Rental Fee – first 3 hrs.	\$200	
Additional hourly fee	\$50	
Daily maximum fee	\$400	
Non-Profit Meetings per hour	\$25	
Damage Deposit	\$150	
OPEN PAVILION RENTAL		
Rental Fee (Mon – Sun)	\$110	
Central Park		
Lakeview Park #1 & #2		
Ramona Park #1 & #2		
Westfield Park		
Schrier Park		
SOUTH WESTNEDGE SKATEPARK		
Special Event Rental – 4 hrs	\$150	
Damage Deposit	\$150	
CELERY FLATS RENTAL		
Schoolhouse Classroom daily fee	\$50	
Damage deposit	\$50	
Grain Elevator		
Group Rental – first 3 hrs	\$125	
Additional hourly fee	\$30	
Daily Rental	\$250	
Damage Deposit	\$150	
Hayloft Theatre *		
Rental (Fri – Sun) – first 5 hrs	\$400	
Rental (Mon – Thu) – first 3 hrs	\$300	
Additional hourly fee	\$60	
Daily maximum	\$770	
Wedding fee	\$770	
Friday Rehearsal option – 2 hrs	\$100	
Outside Performance - evening	\$300	
Rental fee – Chairs	\$120	
Damage Deposit	\$150	

2025 RECREATION & PARK FACILITY FEE RECOMMENDED REVISIONS

Stuart Manor *		
Group Rental – first 3 hrs	\$140	
Additional hourly fee	\$30	
Daily Rental	\$260	
Damage deposit	\$150	
Amphitheatre *		
Rental – first 3 hrs	\$140	
Additional hourly fee	\$30	
Daily Rental	\$300	
Damage Deposit	\$150	
OVERLANDER BANDSHELL		
Rental – 3 hrs	\$140	
Additional hourly fee	\$40	
Daily Rental	\$300	
Damage deposit	\$150	
<i>*Extra Fees: 15% of gross receipts plus applicable fees for additional staff, special equipment, rehearsals</i>		
WALK-RUN FUNDRAISING EVENTS		
Base fee	\$450	
Early Set-Up	\$100	
Additional Staff Charges (per hour) 5K & 10K Only	\$50	
Damage/deposit reservation	\$150	
BIKE SHARE RENTAL		
Non-Member/Walk Up	\$1 + \$1/30 minutes (\$20/day maximum)	
Member	Free 1 st hour \$1/30 min (\$20/day maximum)	
Monthly Member Rate (Member Fee +)	+\$15/month	
Annual Member: April 1-October 31 (Member Fee +)	+\$50/year	
Annual Discounted: April 1-October 31 (Member Fee +) (Must income qualify)	+\$10/year	
Memorial Program		
Memorial Bench w/ Plaque	\$3300	
Memorial Tree Planting w/ Plaque	\$1500	
Memory Book Plaque	\$750	

2025 RECREATION & PARK FACILITY FEE RECOMMENDED REVISIONS

Recreation and Park Facility Fee Schedule

Fee schedules for recreation programs and park facilities are reviewed yearly to ensure that programs offered can meet public demand in a cost-effective manner and continue to promote the quality of life within the community.

Changes and additions to the existing recreation and park facility fees are recommended for 2024 as indicated below and on the attachment titled *Proposed 2024 Recreation and Park Facility Fees*.

- ***Farmers Market:***

- The Seasonal Vendor Fee is proposed to increase by 11% (from \$325 to \$360) to bring us closer to what other nearby markets are charging. For reference:
 - Kalamazoo charges \$525 for the vendors who set up their own tents.
 - Texas Township charges \$576
 - Vicksburg charges \$257
- The Seasonal Vendor Additional Booth Fee is proposed to increase by 11% (from \$162 to \$180) so that the percentage discount for 2nd and 3rd booths remains the same in relation to the Seasonal Vendor fee
 - Currently, an extra booth costs 50% of the price of the first booth. The increase would preserve that relationship.
- The Daily Vendor fee is proposed to increase from \$20 to \$25, to encourage food-producing vendors to become seasonal vendors for a lower seasonal cost (\$600 using the Daily rate for 24 weeks vs. \$360 using Seasonal rate). For reference:
 - Kalamazoo charges \$50/day
 - Texas Township charges \$25/day
 - Vicksburg charges \$22/day

- ***Holiday / Arts & Crafts Market:***

- The Holiday and Arts & Crafts Market vendor fees are also proposed to increase from \$20 to \$25 to be consistent with the Daily Vendor Fees at the Farmers Market.

**CITY OF PORTAGE
SPECIAL ASSESSMENT RATE
RESOLUTION**

At a regular meeting of the Council of the City of Portage, Kalamazoo County, Michigan held at the City Hall in said City on the ____ day of _____, 2024 at 6:00 p.m., local time.

PRESENT:

ABSENT:

The following resolution was offered by:

Councilmember: _____, and seconded by:

Councilmember: _____.

WHEREAS, the Portage Charter gives Council the power to make public improvements within the City; and

WHEREAS, MCL 117.4(d) AND Chapter 62 of the Portage City Charter also empower Council to defray the cost of public improvements "which are of such a nature as to benefit especially any property or properties within a district" by special assessment upon such property in proportion to the benefit derived or to be derived; and

WHEREAS, Council is of the opinion that it is fair and equitable to special assess for certain public improvements which specially benefit properties; and

WHEREAS, such special assessment process allows for the continued expansion and preservation of the infrastructure, to the benefit of the residents; and

WHEREAS, Council adopted a "Special Assessment Policy Resolution" as amended at the regular meeting of said Council on the 21st day of May, 1991; and

WHEREAS, said Policies provide for adoption of Special Assessment rates by resolution of Council to maintain a cost sharing balance between abutting property owners and the City at large; and

WHEREAS, increased construction costs make it appropriate to amend the existing special assessment rates to maintain the cost sharing balance between abutting property owners and the City at large.

NOW, THEREFORE BE IT RESOVLED THAT:

1. The City of Portage adopt the special assessment rate as indicated on Attachment "A", attached hereto and incorporated herein, with said rates to become effective for any special assessment district initiated after January 1, 2025 and to remain in effect until modified by subsequent resolution of Council.
2. The City of Portage utilize the special assessment rates as indicated on Attachment "A", with said rates to become effective after January 1, 2025 for connection to any water or sanitary sewer extension district (unassessed water or sanitary sewer main). The fee for connection to an unassessed water main shall consist of the current charge for the water lead (from the water main to the curb shut off), the water meter charge, and the front footage charge based on current special assessment rates. The meter charge must be paid in full at the time of issuance of the water permit but the front footage and water lead charges may be spread over twenty years. The fee for an up-sized water lead shall consist of the difference in cost between the 1 ¼ inch service assessed and the selected size current rate at the time of connection.
3. The fee for connection to an unassessed sanitary sewer main shall consist of the current "trunk and branch" fee, a sewer meter charge (if the structure is not

connected to public water), the street lead charge (service line from the sanitary sewer main to the property line), and the front footage charge based on the current special assessment rates for unassessed sewers. The sewer trunk and branch fee, and sewer meter charge (when applicable) must be paid in full at the time of issuance of the sewer use permit but the front footage and the street lead charges may be spread over twenty years.

4. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

ADOPTED: YEAS: Councilmember: _____

NAYS: Councilmember: _____

ABSENT: Councilmember: _____

Erica Eklov, City Clerk

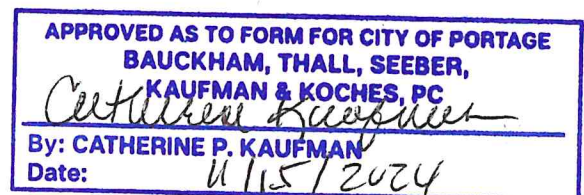
CERTIFICATION

STATE OF MICHIGAN)
) ss
COUNTY OF KALAMAZOO)

I, the undersigned, the duly qualified and acting City Clerk of the City of Portage, County of Kalamazoo, State of Michigan, do hereby certify that the foregoing is a true and complete copy a resolution adopted a regular meeting of the City Council of said city, held on the ____ day of _____, 2024, the original of which is on file in my office.

IN WITNESS THEREOF, I have hereto affixed my official signature this ____ day of _____, 2024.

Erica Eklov, City Clerk



Attachment "A"
SPECIAL ASSESSMENT RATES 2025

	Residential			Commercial/Industrial		
	2024	2025	% Change	2024	2025	% Change
Water	\$93.97	\$93.97	0.00%	\$122.75	\$122.75	0.00%
Sewer	\$81.07	\$85.12	5.00%	\$87.95	\$92.35	5.00%
Unassessed Sewer*	\$144.35	\$151.57	5.00%	\$176.72	\$185.56	5.00%
Petitioned Street Reconstruction with Curb & Gutter (including new storm sewer)	\$153.89	\$161.58	5.00%	\$170.74	\$179.28	5.00%
Petitioned Street Reconstruction with Curb & Gutter (existing adequate storm sewer)	\$112.46	\$118.08	5.00%	\$119.75	\$125.74	5.00%
Petitioned Curb and Gutter (including new storm sewer done in conjunction with either street reconstruction or sanitary sewer installation)	\$87.31	\$87.31	0.00%	\$96.87	\$96.87	0.00%
Petitioned Street Reconstruction	\$72.38	\$76.00	5.00%	\$79.67	\$83.65	5.00%
Petitioned Storm Sewer (done separate from street reconstruction)	\$74.86	\$78.60	5.00%	\$81.47	\$85.54	5.00%
Sidewalk	\$45.13	\$45.13	0.00%	\$52.80	\$52.80	0.00%
Drive Approach - Concrete	\$1,883.41	\$1,977.58	5.00%	\$1,883.41	\$1,977.58	5.00%
Sewer Lead	\$3,549.34	\$3,549.34	0.00%	\$3,549.34	\$3,549.34	0.00%
3/4-in. Water Service	\$2,310.43	\$2,310.43	0.00%	\$2,310.43	\$2,310.43	0.00%
1-in. Water Service	\$2,723.68	\$2,723.68	0.00%	\$2,723.68	\$2,723.68	0.00%
1 1/4-in. Water Service	\$2,890.75	\$2,890.75	0.00%	\$2,890.75	\$2,890.75	0.00%

* This rate will apply to sewer extension districts initiated prior to 11-7-06.

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: IFT Rescission - Suite 1 of Depatie Fluid Power, Co. (5870 S. Sprinkle Road)

SUPPORTING PERSONNEL: Peter Dame, Chief Development Officer
Aaron Powers, City Assessor
Jonathon Hallberg, Deputy Director of Economic Development

ACTION RECOMMENDED: Rescind the Industrial Facilities Exemption Certificate for Suite 1 of Depatie Fluid Power, Co. at 5870 S. Sprinkle Road.

In November, Portage Printing (now a division of Kal Blue) moved from 1116 West Centre Avenue and into a portion of Suite 1 at the new 5870 South Sprinkle Road building currently owned by Depatie Fluid Power Company.

PA 198 is the statute that authorizes Industrial Development Districts, Plant Rehabilitation Districts, and Industrial Facilities Tax (IFT) Abatement certificates. The city approved an IFT application for Depatie Fluid to occupy 100% of Suite 1. Under the approval, no other tenant can be located there and still receive the abatement.

Staff from the Community Development Department have spoken with both the General Manager of Depatie Fluid and a representative of the property owners (TST of Portage, LLC) during October and November 2024 to communicate the ramifications of this tenant relocation on the approved IFT as well as potential options and remedies. On November 12, 2024, the City Clerk sent a certified letter to both entities with a deadline of mid-December, providing formal notification of the rescission of the IFT certificate.

Depatie Fluid has not taken any steps to remedy the situation. Therefore, before the end of the year, the City Council must take the necessary steps to ensure both Depatie and the City of Portage comply with Michigan Department of Treasury requirements and tax code relative to PA 198. As such, it is recommended that the City Council rescind the Industrial Facilities Exemption Certificate for Suite 1 of Depatie Fluid Power, Co. at 5870 South Sprinkle Road. City staff will then contact the State Tax Commission regarding the cancelation of Depatie's certificate on December 18, 2024. This action will not affect the IFT Certificates for Depatie's occupation in Suite 2 or MicroLAM's occupation in Suite 3, as those abatements remain intact.

It is important to point out that the entire site, including the expansion being undertaken on the original building on this site, is also subject to a brownfield agreement. Reducing the amount of the taxes abated actually has the impact of increasing the amount of Tax Increment generated for the entire site and will allow the owner of the property to reimburse additional allowable expenses under that previously approved incentive program. Under the approved brownfield development agreement, it was projected that there was insufficient increment generated (with all the IFT's in place), to reimburse all the eligible

expenses.

Therefore, it is recommended that the Industrial Facilities Exemption Certificate for Suite 1 of Depatie Fluid Power, Co. at 5870 S. Sprinkle Road, be rescinded.

FUNDING: Not Applicable

Attachments:

1. 2024 11 11 ELE-Depatie - Certificate Cancellation Notice
2. IDD Application (Depatie FLEX) 9.27.23
3. Building Suite Layout

November 12, 2024

Ryan Thomas, President
Depatie Fluid Power Company
6256 American Avenue
Portage, MI 49002

CERTIFIED MAIL

Dear Mr. Thomas,

RE: Depatie Fluid Power Company - IDD #34 and #62

The City of Portage updated the previously established Industrial Development Districts No. 34 and 62 in 2023 for an Industrial Facilities Exemption Certificate for building construction by Depatie Fluid Power Company within said districts.

However, staff have been recently informed that KalBlue Group will be closing its Portage location at 1116 W. Centre Avenue on November 15, 2024, and relocating to Suite 1 of your building at 5870 S. Sprinkle Road on November 18, 2024. To date, the City of Portage has not received an application to transfer the Industrial Facility Exemption Certificate #2023-086 for Suite 1, issued to Depatie Fluid Power on December 19, 2023.

Industrial Facility Exemption Certificates are regulated under Public 198 of 1974, as amended. As an application must be approved prior to occupancy, the city is obligated under state statute to terminate the certificate.

Should you believe that your existing certificate can be transferred, please contact me at your earliest convenience. Please be advised that, for such a transfer to be considered, the KalBlue Group must delay occupancy, produce a lease (or sublease) agreement indicating 100 percent occupancy of the suite, and responsibility for all property taxes associated with the unit, and apply for the transfer.

Staff will be contacting the State Tax Commission regarding the cancellation of your certificate on December 18, 2024, unless we hear from you before that time.

Sincerely,

Erica L. Eklov
City Clerk

c: Pat McGinnis, City Manager
Aaron Powers, City Assessor
Pete Dame, Chief Development Officer
David Scott, PlazaCorp



Depatie Fluid Power
6256 American Avenue
Portage, MI 49002
depatie.com

Portage City Council
7900 South Westnedge Ave
Portage, MI 49002

Dear Portage City Council

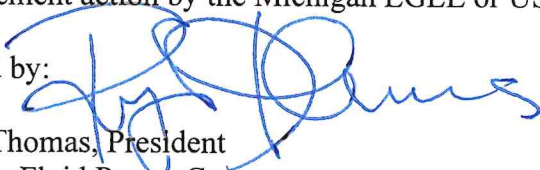
Depatie Fluid Power Group has been in business for over sixty years serving the hydraulic and pneumatic power needs of thousands of customers across Western Michigan and Northern Indiana. As a certified Parker Tri-Technology distributor across Hydraulics, Pneumatics, and Fluid Connectors, Depatie has the product and expertise to serve their customers. Depatie has expanded manufacturing capabilities to include fabrication equipment and skillsets for welding, metalworking, tube bending, painting, and a wide range of custom hose crimping to support new product development along with production of uniquely designed fluid power systems and subsystems.

Depatie Headquarters footprint in Portage is currently spread across three different buildings. As part of their growth plans the company would like to consolidate their operations into one building to allow for more efficiencies and grow their business through increased custom full solution services. Currently the company is planning to construct a 30,000 square foot of a new 63,000 square foot facility on recently acquired land located at 5870 S. Sprinkle Road. The new construction represents approximately \$3.23 million in real property investment and will lead to the creation of approximately 48 new jobs and the retention of 86 with an average salary of \$50,980.

Depatie Fluid Power Group requests that the City consider approving the attached Industrial Facilities Exemption Application be approved for construction of a new facility on land in Industrial Development District 34 and 62. Depatie appreciates the support and consideration of the City of Portage and looks forward to further growth within the community.

Depatie Fluid Power Company is compliant with applicable environmental requirements and is not under any enforcement action by the Michigan EGLE or US EPA.

Signed by:


Ryan Thomas, President
Depatie Fluid Power Company

Date:

9/11/2023

Application for Industrial Facilities Tax Exemption Certificate

Issued under authority of Public Act 198 of 1974, as amended. Filing is mandatory.

INSTRUCTIONS: File the completed application and the required attachments with the clerk of the local government unit. If you have any questions regarding the completion of this form, call 517-335-7491.

To be completed by Clerk of Local Government Unit	
Signature of Clerk <i>Erica J. Ekko</i>	Date Received by Local Unit 9/11/2023
STC Use Only	
Date Received by STC	

APPLICANT INFORMATION

All boxes must be completed.

1a. Company Name (Applicant must be the occupant/operator of the facility) DEPATIE FLUID POWER COMPANY		1b. Standard Industrial Classification (SIC) Code - Sec. 2(10) (4 or 6 Digit Code) 3499	
1c. Facility Address (City, State, ZIP Code) (real and/or personal property location) 5870 S. SPRINKLE ROAD, PORTAGE, MI 49002		1d. City/Township/Village (indicate which) PORTAGE	1e. County KALAMAZOO
2. Type of Approval Requested ☒ New (Sec. 2(5)) ☐ Transfer ☐ Speculative Building (Sec. 3(8)) ☐ Rehabilitation (Sec. 3(6)) ☐ Research and Development (Sec. 2(10)) ☐ Increase/Amendment		3a. School District where facility is located PORTAGE PUBLIC SCHOOLS	
		3b. School Code 39140	
		4. Amount of years requested for exemption (1-12 Years) 12+1 YEAR CONSTRUCTION	

5. Per section 5, the application shall contain or be accompanied by a general description of the facility and a general description of the proposed use of the facility, the general nature and extent of the restoration, replacement, or construction to be undertaken, a descriptive list of the equipment that will be part of the facility. Attach additional page(s) if more room is needed.

30,000 SQ FT FACILITY. SPECIALITY FABRICATION, ASSEMBLY, AND TESTING. SPECIALITY EQUIPMENT: WELDING, METAL WORKING, TUBE BENDING, HOSE CRIMPING, AND CNC HOSE CUTTING.

6a. Cost of land and building improvements (excluding cost of land) * Attach list of improvements and associated costs. * Also attach a copy of building permit if project has already begun.	620,047 Real Property Costs
6b. Cost of machinery, equipment, furniture and fixtures * Attach itemized listing with month, day and year of beginning of installation, plus total	Personal Property Costs
6c. Total Project Costs * Round Costs to Nearest Dollar	620,047 Total of Real & Personal Costs

7. Indicate the time schedule for start and finish of construction and equipment installation. Projects must be completed within a two year period of the effective date of the certificate unless otherwise approved by the STC.

Begin Date (M/D/Y)		End Date (M/D/Y)	
Real Property Improvements	05/01/2023	06/01/2024	☐ Owned ☒ Leased
Personal Property Improvements			☐ Owned ☐ Leased

8. Are State Education Taxes reduced or abated by the Michigan Economic Development Corporation (MEDC)? If yes, applicant must attach a signed MEDC Letter of Commitment to receive this exemption. ☐ Yes ☒ No

9. No. of existing jobs at this facility that will be retained as a result of this project. 86	10. No. of new jobs at this facility expected to create within 2 years of completion. 48
---	---

11. Rehabilitation applications only: Complete a, b and c of this section. You must attach the assessor's statement of SEV for the entire plant rehabilitation district and obsolescence statement for property. The Taxable Value (TV) data below must be as of December 31 of the year prior to the rehabilitation.

a. TV of Real Property (excluding land)	
b. TV of Personal Property (excluding inventory)	
c. Total TV	

12a. Check the type of District the facility is located in:	
☒ Industrial Development District	☐ Plant Rehabilitation District

12b. Date district was established by local government unit (contact local unit) Dist 34 11/9/1982; Dist 62 5/15/1990	12c. Is this application for a speculative building (Sec. 3(8))? ☐ Yes ☐ No
--	--

APPLICANT CERTIFICATION - complete all boxes.

The undersigned, authorized officer of the company making this application certifies that, to the best of his/her knowledge, no information contained herei in the attachments hereto is false in any way and that all are truly descriptive of the industrial property for which this application is being submitted.

It is further certified that the undersigned is familiar with the provisions of P.A. 198 of 1974, as amended, being Sections 207.551 to 207.572, inclusive, of Michigan Compiled Laws; and to the best of his/her knowledge and belief, (s)he has complied or will be able to comply with all of the requirements thereof which are prerequisite to the approval of the application by the local unit of government and the issuance of an Industrial Facilities Exemption Certificate I the State Tax Commission.

13a. Preparer Name RYAN MINGER	13b. Telephone Number (269) 324-2850	13c. Fax Number	13d. E-mail Address ryan.minger@depatie.com
14a. Name of Contact Person DAVE SCOTT	14b. Telephone Number (269) 207-4352	14c. Fax Number	14d. E-mail Address dscott@plazacorp.net
▶ 15a. Name of Company Officer (No Authorized Agents) RYAN THOMAS			
15b. Signature of Company Officer (No Authorized Agents) 		15c. Fax Number	15d. Date 5/23/23
▶ 15e. Mailing Address (Street, City, State, ZIP Code) 6256 AMERICAN AVE, PORTAGE, MI 49002		15f. Telephone Number (269) 324-2850	15g. E-mail Address ryan.thomas@depatie.com

LOCAL GOVERNMENT ACTION & CERTIFICATION - complete all boxes.

This section must be completed by the clerk of the local governing unit before submitting application to the State Tax Commission. Check items on file at Local Unit and those included with the submittal.

▶ 16. Action taken by local government unit ☐ Abatement Approved for _____ Yrs Real (1-12), _____ Yrs Pers (1-12) After Completion ☐ Yes ☐ No ☐ Denied (Include Resolution Denying)		16b. The State Tax Commission Requires the following documents be filed for an administratively complete application: Check or Indicate N/A if Not Applicable ☐ 1. Original Application plus attachments, and one complete copy ☐ 2. Resolution establishing district ☐ 3. Resolution approving/denying application. ☐ 4. Letter of Agreement (Signed by local unit and applicant) ☐ 5. Affidavit of Fees (Signed by local unit and applicant) ☐ 6. Building Permit for real improvements if project has already begun ☐ 7. Equipment List with dates of beginning of installation ☐ 8. Form 3222 (if applicable) ☐ 9. Speculative building resolution and affidavits (if applicable)
16a. Documents Required to be on file with the Local Unit Check or Indicate N/A if Not Applicable ☐ 1. Notice to the public prior to hearing establishing a district. ☐ 2. Notice to taxing authorities of opportunity for a hearing. ☐ 3. List of taxing authorities notified for district and application action. ☐ 4. Lease Agreement showing applicants tax liability.		
16c. School Code		
17. Name of Local Government Body		▶ 18. Date of Resolution Approving/Denying this Application

Attached hereto is an original application and all documents listed in 16b. I also certify that all documents listed in 16a are on file at the local u inspection at any time, and that any leases show sufficient tax liability.

19a. Signature of Clerk	19b. Name of Clerk	19c. E-mail Address
19d. Clerk's Mailing Address (Street, City, State, ZIP Code)		
19e. Telephone Number	19f. Fax Number	

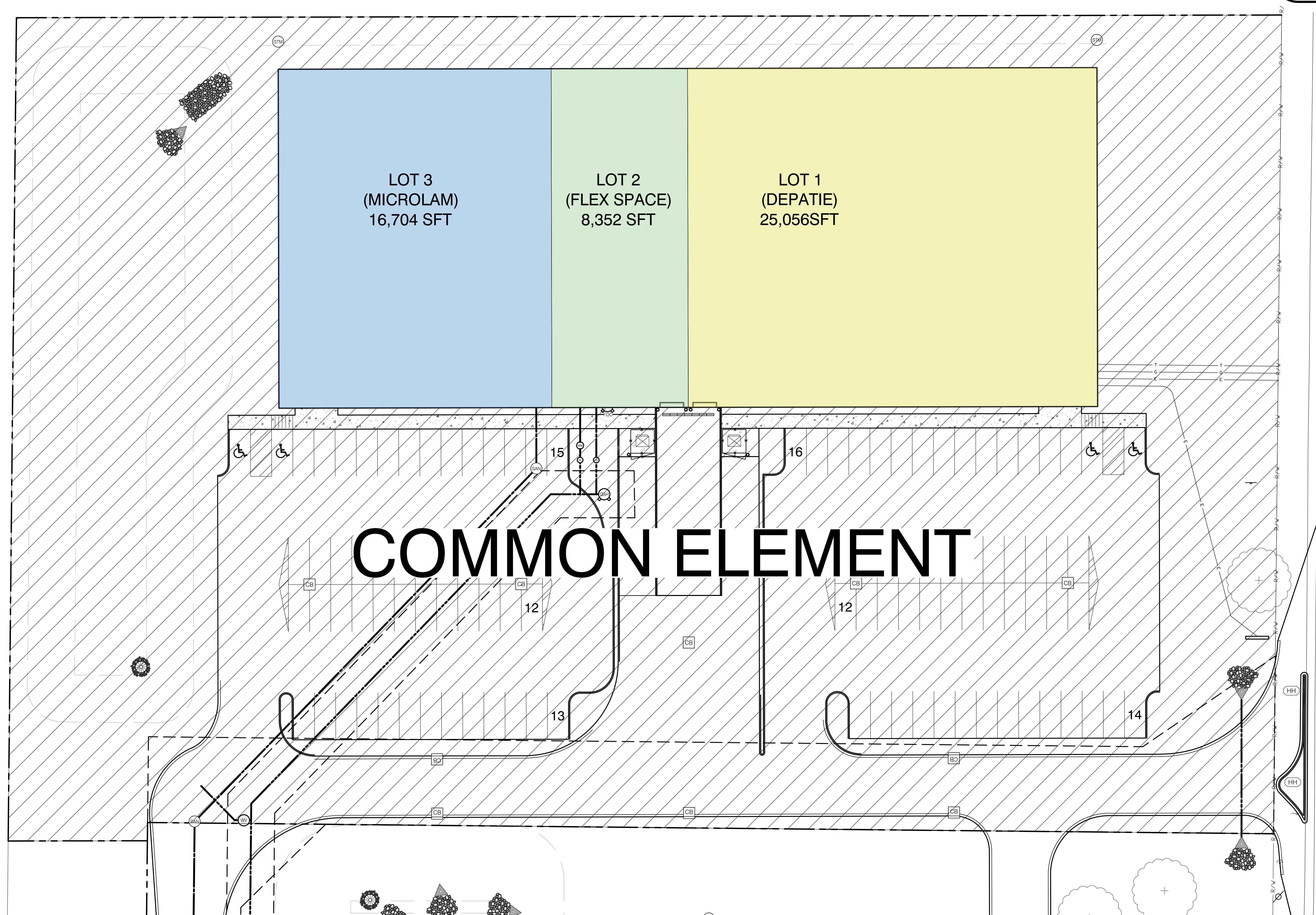
State Tax Commission Rule Number 57: Complete applications approved by the local unit and received by the State Tax Commission by October 31 each year will be acted upon by December 31. Applications received after October 31 may be acted upon in the following year.

For faster service, email the completed application and additional required documentation to PTE@michigan.gov.

An additional submission option is to mail the completed application and required documents to:

Michigan Department of Treasury
State Tax Commission
PO Box 30471
Lansing, MI 48909

STC USE ONLY				
▶ LUCI Code	▶ Begin Date Real	▶ Begin Date Personal	▶ End Date Real	▶ End Date Personal



TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: First reading for the 2021 International Property Maintenance Code Amendment

SUPPORTING PERSONNEL: Peter Dame, Chief Development Officer

ACTION RECOMMENDED: Receive for first reading the proposed ordinance to amend the Code of Ordinances and amend the adopted 2021 International Property Maintenance Code and schedule the ordinance for final adoption at the regular City Council meeting on January 21, 2025.

The International Property Maintenance Code (IPMC) is a model code developed by the International Code Council to establish minimum maintenance requirements for existing buildings and structures, and was adopted by the City Council on August 27, 2024.

There are two technical corrections needed to the IPMC. First is an omission of the noxious weeds definition under Sec. 24-114 of the City Ordinance. This simple change is requested to incorporate/include the IPMC 302.4 Weeds. Second, the cross-reference under Sec. 24-113. (13) of the improved driveway definition no longer existed in Sec. 24-111 and was moved to the Zoning Ordinance Sec. 42-112 after the City Council approved that change on July 9, 2024, City Council meeting. This ordinance corrects that change in reference.

It is therefore recommended that City Council receive for first reading the proposed ordinance to amend the Code of Ordinances and to amend the adopted 2021 International Property Maintenance Code and schedule the ordinance for final adoption at the regular City Council meeting of January 21, 2025.

FUNDING: Not Applicable

Attachments: 1. Proposed Ordinance Approved to Form

**AN ORDINANCE TO AMEND THE CODE OF ORDINANCES OF THE CITY OF PORTAGE,
MICHIGAN
AND AMEND THE ADOPTED 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE**

THE CITY OF PORTAGE ORDAINS:

SECTION 1 Amendment to City Code

Sec. 24-113. Property Maintenance standards. (13). Is amended as follows, with others remain:

“(13) ...the definition of improved driveway contained in section ~~24-114~~ **42-112**;...”

SECTION 2 Amendment to the Adopted 2021 International Property Maintenance Code

Remove “Section 302.4 reserved for future expansion.” And replaced with the following:

“302.4 Weeds. *Premises and exterior property shall be maintained free from weeds or plant growth in excess of 8 inches in height. Weeds shall be defined as all grasses, annual plants and vegetation, other than trees or shrubs. Noxious weeds shall be prohibited. Noxious weeds include Canada thistle (Cirsium arvensa), common and giant ragweed (Ambrosia artemisiifolia and Ambrosia trifida, and Poison ivy (Rhus radicans or Toxicodendron radicans), poison sumac (Toxicodendron vermic) or other growth which are poisonous or dangerous to health and safety.”*

SECTION 3 Severability

Should any section, clause or provision of this Ordinance be declared to be invalid by a court of competent jurisdiction, the same shall not affect the validity of the Ordinance as a whole or any other part thereof other than the parts so declared to be invalid.

SECTION 4 Repeal of Conflicting Ordinances, Savings Clause

All Ordinances or parts of Ordinances in conflict herewith are hereby repealed. Any proceedings pending, including prosecutions for violations, under any previous ordinance provision being repealed hereby shall not be affected by this Ordinance and may be continued pursuant to said previous Ordinance provisions.

SECTION 5 Effective Date

This ordinance shall take effect 10 days following publication of a summary thereof, following adoption.

FIRST READING:

SECOND READING:

EFFECTIVE DATE:

Patricia M. Randall, Mayor

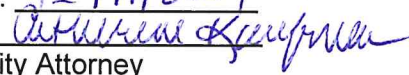
STATE OF MICHIGAN)
) SS
COUNTY OF KALAMAZOO)

I do hereby certify that I am the duly appointed and acting City Clerk of the City of Portage and that the foregoing Ordinance was adopted by the City of Portage on the _____ day of _____, 2025.

Erica Eklov, City Clerk

Approved as to Form:

Date: 12/11/2024

By: 
City Attorney

**ADOPTION OF AN ORDINANCE TO AMEND THE CODE OF ORDINANCES OF THE CITY
OF PORTAGE, MICHIGAN
AND AMEND THE ADOPTED 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
NOTICE**

**TO: THE RESIDENTS AND PROPERTY OWNERS OF THE CITY OF PORTAGE AND ALL
OTHER INTERESTED PERSONS.**

NOTICE IS HEREBY GIVEN, that an Ordinance to amend the Code of Ordinances of the City of Portage, Michigan and to amend the Adopted 2021 International Property Maintenance Code, was adopted by the City Council at a regular meeting held on the _____ day of _____, 2025, and will become effective _____, 2025.

NOTICE IS FURTHER GIVEN that the Code of Ordinances of the City of Portage, Michigan and the Adopted 2021 International Property Maintenance Code, has been amended as follows:

THE CITY OF PORTAGE ORDAINS:

SECTION 1 Amendment to City Code

Sec. 24-113. Property Maintenance standards. (13). Is amended as follows, with others remain:

“(13) ...the definition of improved driveway contained in section 24-111 ~~42-112~~;...”

SECTION 2 Amendments to the Adopted 2021 International Property Maintenance Code

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“302.4 Weeds. Premises and exterior property shall be maintained free from weeds or plant growth in excess of 8 inches in height. Weeds shall be defined as all grasses, annual plants and vegetation, other than trees or shrubs. Noxious weeds shall be prohibited. Noxious weeds include Canada thistle (*Cirsium arvensa*), common and giant ragweed (*Ambrosia artemisifolia* and *Ambrosial trifida*, and Poison ivy (*Rhus radicans* or *Toxicodendron radicans*), poison sumac (*Toxicodendron vermix*) or other growth which are poisonous or dangerous to health and safety.”

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SECTION 3 Repeal of Conflicting Ordinances, Savings Clause

All Ordinances or parts of Ordinances in conflict herewith are hereby repealed. Any proceedings pending, including prosecutions for violations, under any previous ordinance provision being repealed hereby shall not be affected by this Ordinance and may be continued pursuant to said previous Ordinance provisions.

SECTION 4 Effective Date

This ordinance shall take effect 10 days following publication of a summary thereof, following adoption.

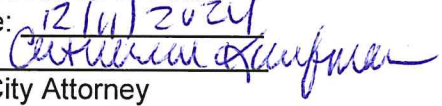
PLEASE TAKE NOTICE that a copy of the Ordinance as amended may be purchased or inspected at City Hall on any business day except public and legal holidays from and after publication of this Notice from 8:00 a.m. to 5:00 p.m. local time.

Dated: _____

Erica Eklov, City Clerk

Approved as to Form:

Date: 12/11/2024

By: 
City Attorney

**FIRST READING
CITY OF PORTAGE, MICHIGAN
NOTICE**

TO: THE RESIDENTS AND PROPERTY OWNERS OF THE CITY OF PORTAGE AND ALL OTHER INTERESTED PERSONS.

NOTICE IS HEREBY GIVEN, that an Ordinance to amend the Code of Ordinances of the City of Portage, Michigan and to amend the Adopted 2021 International Property Maintenance Code, was received for 1st reading and set public hearing at a regular meeting of the City Council held on _____, 2024, and that the Council will hold a public hearing on the proposed amendment at the Portage City Hall in said City on _____, 2025, at 6:00 p.m. or as soon thereafter as may be heard.

NOTICE IS FURTHER GIVEN that the Code of Ordinances of the City of Portage, Michigan and the Adopted 2021 International Property Maintenance Code reads as follows:

THE CITY OF PORTAGE ORDAINS:

SECTION 1 Amendment to City Code

Sec. 24-113. Property Maintenance standards. (13). Is amended as follows, with others remain:

“(13) ...the definition of improved driveway contained in section 24-111 ~~42-112~~;...”

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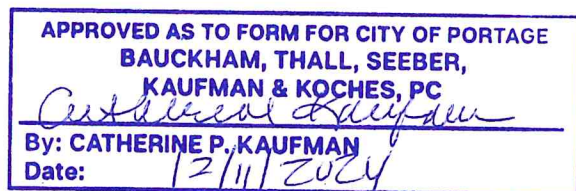
SECTION 5 Effective Date

This ordinance shall take effect 10 days following publication of a summary thereof, following adoption.

PLEASE TAKE FURTHER NOTICE that copies of said proposed amendment may be examined at City Hall on any business day except public and legal holidays from and after publication of this Notice until the day of hearing from 8:00 a.m. to 5:00 p.m. local time.

Dated: _____

Erica Eklov, City Clerk



TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Final Preliminary Plat (engineering plans) of Oakland Farms No. 4, 9840 Oakland Drive

SUPPORTING PERSONNEL: Peter Dame, Chief Development Officer

ACTION RECOMMENDED: Approve the Final Preliminary Plat (engineering plans) of Oakland Farms No. 4 (Phase 5), 9840 Oakland Drive.

Hyland Associates, LLC has submitted a Final Preliminary Plat (engineering plans) of Oakland Farms No. 4 (Phase 5) residential subdivision located at 9840 Oakland Drive. The Oakland Farms Subdivision has been built in the following approved multi-phases:

Phase 1: 2006-2007 ‘Oakland Farms’

Status: Completed

- New street called ‘Oakland Farms Trail’
- 19 new lots each developed with single-family detached homes.

Phase 2: 2014 ‘Oakland Farms North’

Status: Completed

- New street called ‘Ashford Trail.’
- 19 new lots each with single-family detached homes.

Phase 3: 2018 ‘Oakland Farms No. 2’

Status: Soon to be completed; the few vacant lots will be under construction with new homes soon.

- 25 new lots each with single-family detached homes.
- Developed western portions of Oakland Farms Trail and Ashford Trail
- New street called ‘Honey Creek Trail.’

Phase 4: 2023-Present ‘Oakland Farm No. 3’

Status: New road, utilities installed; a few new homes being built, occupied; lots still vacant.

- Extend Ashford Trail further west.
- New street called ‘Windflower Lane’
- 20 new lots for future single-family detached homes.

Total approved units:

- Platted lots: 83

- Single Family Homes Completed: 79 completed (approx. 5 under construction)

On May 14, 2024, the City Council approved the Preliminary Plat of Oakland Farms No. 4 (Phase 5), 9840 Oakland Drive, representing the fifth phase of the single-family residential subdivision planned along the west side of Oakland Drive. Hyland Associates, LLC, is requesting that the City Council approve the Final Preliminary Plat (engineering plans) for Oakland Farms No. 4 that involves the following planning and public improvements:

- Consists of 21 lots (units 65 – 85) on 9.67 acres
- Lots are expected to be developed with single-family detached homes
- Density: 2.17 units/acre
- Lot sizes: meet or exceed 12,000 square feet (R-1C minimum lot size, with larger cul-de-sac lots).
- Lot widths: meet or exceed 100 feet (R-1C minimum lot width)
- Extension of Honey Creek Trail and new street ‘Loganberry Lane’
- ROW Width: 60-foot
- Public street pavement wide: 24’
- Sidewalks: 4’ wide, both sides of streets
- All lots will be served by city water and sewer.
- Stormwater will be directed to either the existing stormwater basin or the land to the west (City of Portage/State of Michigan).
- Fire hydrants will be provided throughout the phase per minimum spacing regulations.
- Each lot will have at least one street tree located on the curb lawn (between the street curb and sidewalk). However, lots 73 and 74 are especially constricted by the narrow curb lawn and adjacent city water main and, therefore, are allowed to be installed on the other (private) side of the sidewalk to meet the intent of the city’s street tree requirement.
- Each lot will meet R-1C zoning yard setbacks: front: 30’, sides: 12’, and rear: 40’. Other zoning development restrictions also apply.
- The existing underground city 16” water main connecting to a city water pump and the associated easement will continue to bisect this phase through proposed lots 65, 70, and 77. This is shown in the site drawing. The existing city driveway within the previous Phase 4 (No. 3) and current Phase 5 (No.4) providing access to the city water pump will be removed and seeded for grass. It is expected that the city will use the new public streets to access the water pump.

The approval of the Final Preliminary Condominium Plan (engineering plans) will allow the developer to proceed with the construction of the infrastructure improvements. When construction is complete, the developer will request final approval from the City Council and acceptance of public infrastructure improvements.

The Development Review Team (DRT) comprises representatives from the Department of Transportation and Utilities, Fire Department, Department of Parks and Recreation, Office of the City Assessor, and Department of Community Development. The DRT’s review ensures that the proposed development is consistent with the city’s infrastructure, engineering, and other requirements, including streets, sewers, water mains, stormwater, parking, landscaping, and others. The DRT has reviewed the engineering drawings and determined that the plans are in conformance with city requirements and recommend the approval of the Final Preliminary Condominium Plan (engineering plans).

It is recommended that City Council approve the Final Preliminary Plat (engineering plans) of Oakland Farms No. 4, 9840 Oakland Drive.

FUNDING: Not Applicable

Attachments: 1. Final Preliminary Plat (engineering plans) Oakland Farms No.4



DESIGN ENGINEER/SURVEYOR



MONUMENT ENGINEERING GROUP ASSOCIATES, INC

INNOVATIVE GEOSPATIAL &
ENGINEERING SOLUTIONS

1209 EAST MILHAM ROAD, SUITE B
PORTAGE, MI 49002
PHONE: 269-344-6165

CLIENT

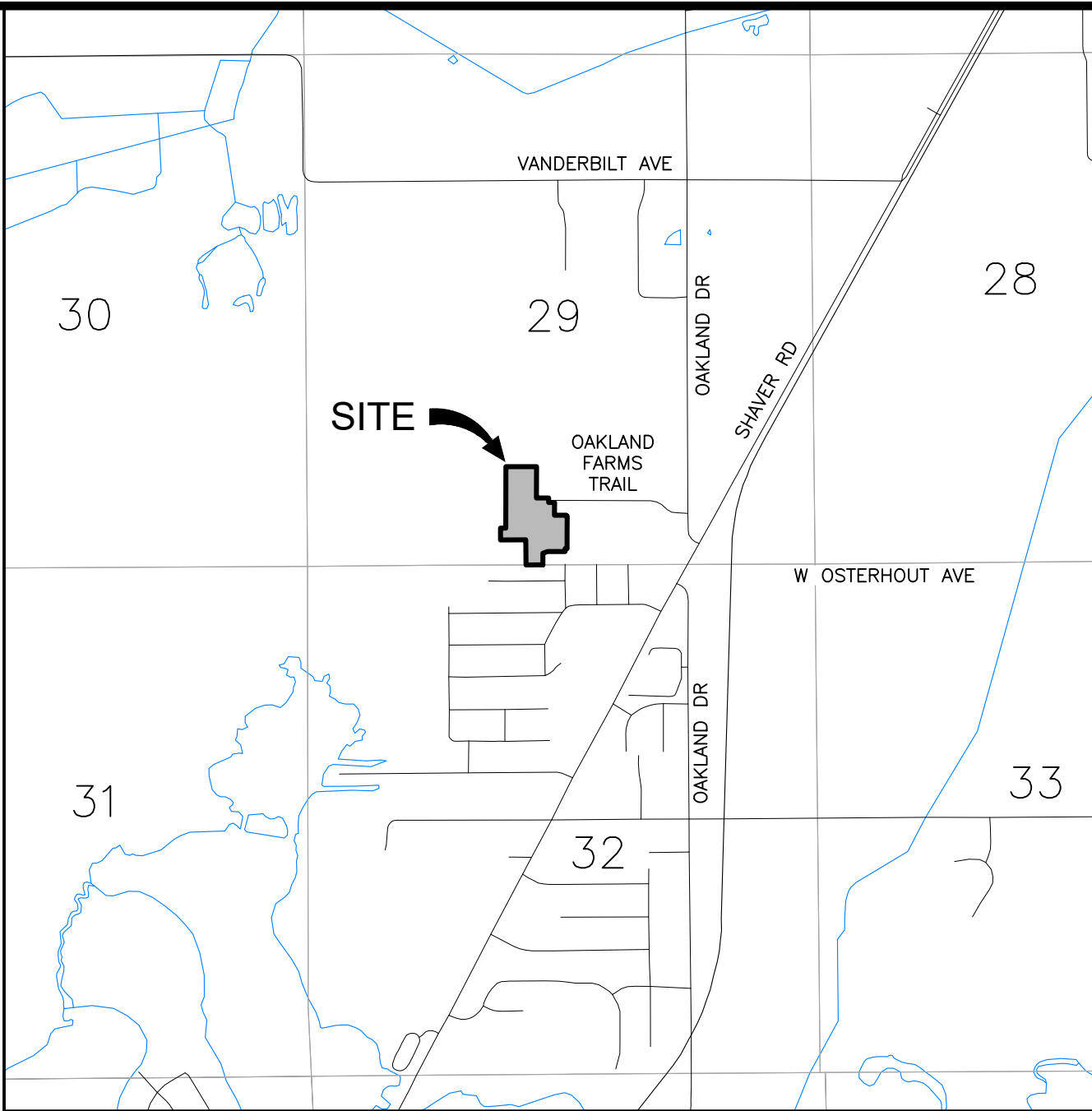
HYLAND ASSOCIATES, LLC
7545 S. 10TH STREET
KALAMAZOO, MI 49009
POC: DAN MARTZ
PHONE: 269-207-2920
POC: BOB SHAVE
PHONE: 269-207-2239

ZONING INFORMATION

THIS ZONING INFORMATION IS TAKEN FROM PORTAGE CODE OF ORDINANCES
DATED: 2/26/2024

SUBJECT PARCEL ZONING: (R1-C) ONE FAMILY RESIDENTIAL	SUBJECT PARCEL		BUILDING SETBACKS (FT)			MAXIMUM % LOT AREA COVERED BY ALL BUILDINGS
	AREA (SF)	WIDTH AT BUILDING SITE (FT)	FRONT	SIDE	REAR	
REQUIRED	12,000	100	30	12	40	30%

FINAL PRELIMINARY PLAT FOR
OAKLAND FARMS NO. 4



LOCATION MAP

NOTES

- PROPOSED PHASE INCLUDES 21 LOTS SITUATED ON APPROXIMATELY 9.75 ACRES.
- LOTS SHALL CONFORM TO CITY OF PORTAGE ZONING REQUIREMENTS.
- SUBDIVISION SHALL CONFORM TO THE CITY OF PORTAGE REQUIREMENTS.
- ALL ROADWAYS SHALL HAVE A 60 FOOT WIDE RIGHT OF WAY AND SHALL BE PUBLIC.
- SITE SHALL BE SERVED BY MUNICIPAL SANITARY SEWER AND WATER MAIN.
- STORM SEWER SYSTEM SHALL DRAIN TO EXISTING STORM WATER BASIN AND SHALL BE UNDER CITY OF PORTAGE JURISDICTION.
- SITE IS PARTIALLY TREE COVERED.
- ALL LOT DIMENSIONS ARE SUBJECT TO FINAL ADJUSTMENT. DIMENSIONS SHOWN ON CURVES ARE CHORD LENGTHS.
- SHOWN ELEVATIONS ARE BASED ON USGS DATUM. SHOWN TOPOGRAPHY & ELEVATION CONTOURS BASED ON MAPPING BY THIS OFFICE.
- SIDEWALKS WILL BE PROVIDED ON BOTH SIDES OF ALL STREETS AND AROUND THE BULB OF ANY PERMANENT CUL-DE-SAC. PAVEMENT WIDTH SHALL BE A MINIMUM OF 26.0 FEET (30.0 FEET BETWEEN BACKS OF CURBS). ALL UTILITIES SHALL BE UNDERGROUND.
- SHOWN STREET NAMES ARE PRELIMINARY.
- FIRE HYDRANTS SHALL BE SPACED NO MORE THAN 500' APART AND SITUATED SUCH THAT ALL PORTIONS OF BUILDINGS ARE WITHIN 250' OF A FIRE HYDRANT.
- "NO PARKING FIRE LANE SIGNS SHALL BE PLACED AS REQUIRED.

FIRE DEPARTMENT NOTES

- COMBUSTIBLE BUILDING CONSTRUCTION SHALL NOT COMMENCE UNTIL FIRE HYDRANTS ARE OPERABLE AND AN ALL WEATHER ROAD SURFACE IS IN PLACE.
- THE FIRE FLOW FOR EACH BUILDING IS 1000 GPM FROM ONE HYDRANT WITHIN 400' OF ALL PORTIONS OF THE BUILDING. THIS FLOW IS BASED ON THE FLOOR AREA OF ALL FLOORS INCLUDING BASEMENT FOR A BUILDING OF TYPE V-B CONSTRUCTION. SHOULD A BUILDING EXCEED 3600 SQUARE FEET, THE MINIMUM FIRE FLOW WILL BE BASED ON THE SIZE AND TYPE OF CONSTRUCTION FOR THAT BUILDING.
- FIRE APPARATUS ACCESS ROADS 20 TO 26 FEET WIDE SHALL BE POSTED ON BOTH SIDES AS A FIRE LANE.
- A PDF FORMAT FILE OF THE APPROVED SITE PLAN SHALL BE PROVIDED TO THE FIRE DEPARTMENT.

SHEET INDEX

		PLAN SUBMITTALS			
		FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY
		8/2/2024	9/17/2024	10/22/2024	11/14/2024
		INCLUDED SHEETS			
SHEET	G-1.0	COVER	•	•	•
SHEET	C-1.0	LAYOUT PLAN	•	•	•
SHEET	C-3.0	HONEY CREEK TRAIL PLAN & PROFILE	•	•	•
SHEET	C-3.1	LOGANBERRY LANE PLAN & PROFILE	•	•	•
SHEET	C-7.0	GRADING PLAN	•	•	•
SHEET	C-9.0	DRAINAGE CALCULATIONS	•	•	•
SHEET	C-11.0	CONSTRUCTION DETAILS	•	•	•
SHEET	C-12.0	SPECIFICATIONS	•	•	•
SHEET	C-11.0	SPECIFICATIONS	•	•	•

INNOVATIVE GEOSPATIAL & ENGINEERING SOLUTIONS
MONUMENT Engineering Group Associates, Inc.
MEGA
298 VETERANS DRIVE
FOWLERVILLE, MICHIGAN 48836
(OFFICE) 517-223-3512
MONUMENTENGINEERING.COM
SERVICE DISABLED VETERAN OWNED
SMALL BUSINESS (SDVOSB)



Call MISS DIG
3 full working days before you dig.
Michigan's One-Call
Utility Notification Organization
1-800-482-7171
www.missdig.org

CLIENT :

HYLAND ASSOCIATES, LLC
7545 S. 10TH STREET
KALAMAZOO, MI 49009
269-207-2920
269-207-2239

COVER SHEET

OAKLAND FARMS NO. 4
PART OF THE SW & SE 1/4
OF SEC. 29, T.3S., R.11W.,
CITY OF PORTAGE, KALAMAZOO COUNTY, MI

DATE	FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY	FINAL PRELIMINARY PLAT TO CITY
8/2/2024	9/17/2024	10/22/2024	11/14/2024	

ORIGINAL ISSUE DATE:
6/3/2024

PROJECT NO: 24-013

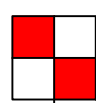
SCALE: 1" = 100'
0 1/2" 1"

FIELD: NP
DRAWN BY: CSD
DESIGN BY: DJ
CHECK BY: PF

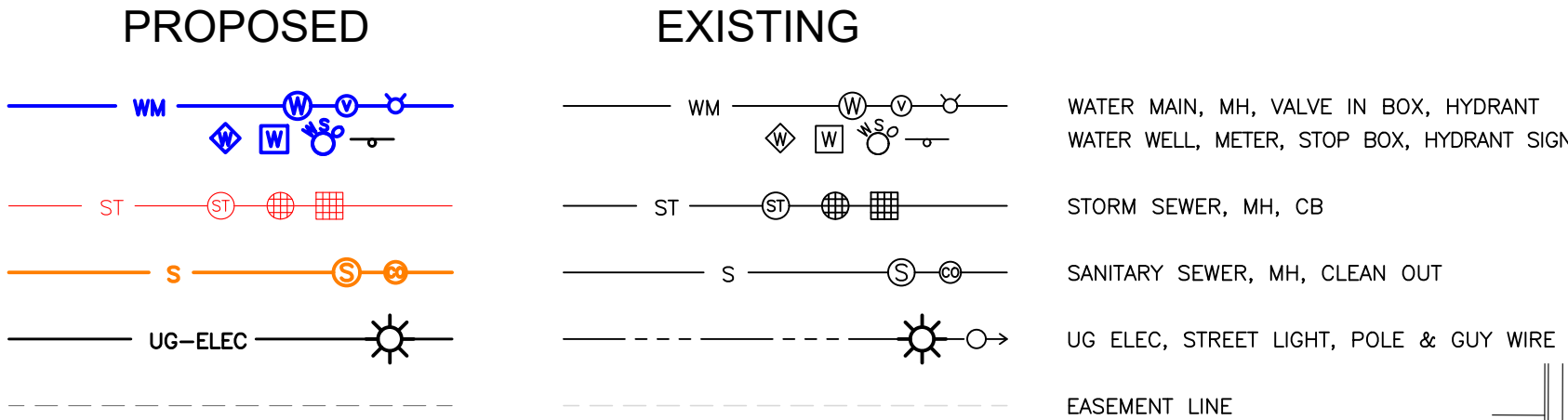
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NOT FOR CONSTRUCTION

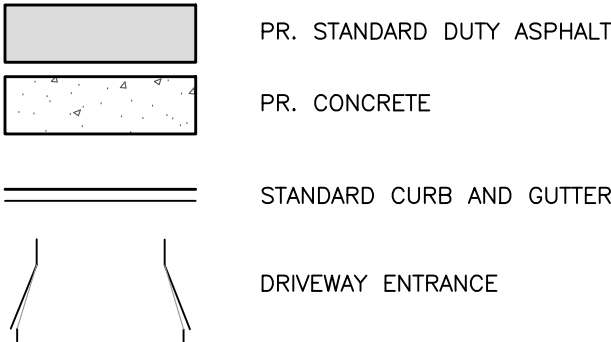




UTILITY LEGEND

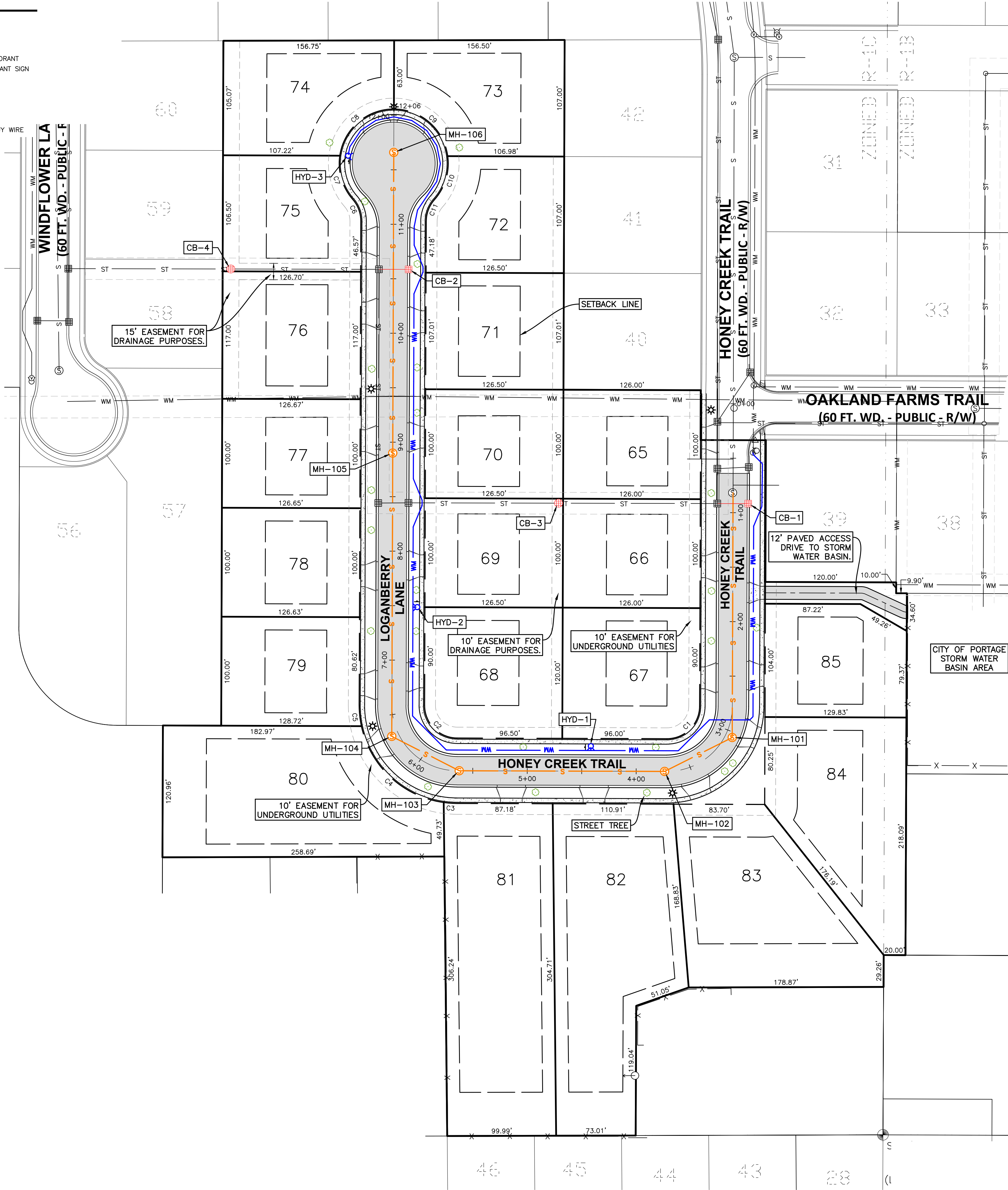


PAVEMENT LEGEND



NOTES

- LIGHT POLES AND ANY UTILITY POLE/BOX SHALL BE LOCATED AT LEAST 5.0 FEET OFF BACK OF CURB.
- STREET NAME SIGNS SHALL BE AT LEAST 9" FROM TOP TO BOTTOM OF ACTUAL SIGN (& PLACED ATOP STOP SIGNS).
- ALL PAVEMENT MARKINGS AND ALL TRAFFIC SIGNAGE SHALL COMPLY WITH STANDARDS IN THE M.M.U.T.C.D.(CURRENT EDITION)
- U-CHANNEL POSTS REQUIRED FOR ALL SIGNS.
- PERMIT(S) SHALL BE OBTAINED FROM THE CITY OF PORTAGE AS REQUIRED.
- E.G.L.E. CONSTRUCTION PERMITS REQUIRED (FOR BOTH PUBLIC WATER MAIN & PUBLIC SANITARY SEWER) PRIOR TO THE COMMENCEMENT OF UTILITY INSTALLATION.
- FOR ON-SITE DWELLINGS, BASEMENT FOOTINGS AND FOUNDATIONS SHALL COMPLY WITH BUILDING CODE REQUIREMENTS BASED ON TYPE OF SOIL PRESENT AND STABILITY OF SOIL.
- FOR ON-SITE DWELLINGS, REQUIRED RADON VENTING SYSTEM BELOW BASEMENT FLOOR SHALL, AS A PRECAUTION, BE PLUMBED TO ALSO BE A DRAINAGE SYSTEM DURING PERIODS OF HIGH GROUNDWATER.
- ALL PROPOSED STREET LIGHTS SHALL COMPLY WITH CITY OF PORTAGE STANDARDS AND CONSUMERS ENERGY STANDARDS WITH REGARDS TO LOCATION AND LIGHT SPECIFICATION.
- ON-SITE SPEED LIMIT SHALL BE 25 MILES PER HOUR.
- UNDERGROUND GAS, ELECTRIC, TELEPHONE AND CABLE TV LINES SHALL DESIGNED BY UTILITY OWNERS AND SHALL NOT BE LOCATED IN PROPOSED STREET RIGHT-OF-WAYS UNLESS UTILITY IS CROSSING STREET (SQUARE TO CENTER LINE).
- AS-BUILT CONSTRUCTION PLANS SHALL BE SUBMITTED TO THE CITY UPON COMPLETION OF THE ROADWAY PROJECT.
- PRIOR TO START OF CONSTRUCTION, PRE-CONSTRUCTION MEETING SHALL BE HELD AT CITY OF PORTAGE OFFICES.
- THE STORM SEWER PIPE MUST BE CLEANED DIRECTLY BEFORE TELEVISION.
- FIRE HYDRANT SIGNS SHALL BE LOCATED 4.0 FEET FROM THE CENTER OF THE FIRE HYDRANT.
- IF A FIRE HYDRANT EXTENSION IS USED TO RAISE A HYDRANT, THE EXTENSION SHALL BE PAINTED THE SAME COLOR OF THE HYDRANT PER CITY OF PORTAGE SPECIFICATIONS.



CURVE TABLE				
CURVE #	LENGTH	RADIUS	DELTA	CHORD
C1	47.12'	30.00'	90°00'00"	S45°11'38"W 42.43'
C2	47.12'	30.00'	90°00'00"	N44°48'22"W 42.43'
C3	12.15'	90.00'	7°44'06"	S85°56'19"E 12.14'
C4	109.69'	90.00'	69°49'45"	S47°09'23"E 103.02'
C5	19.53'	90.00'	12°26'09"	S06°01'26"E 19.50'
C6	21.68'	30.00'	41°24'35"	S20°30'39"E 21.21'
C7	43.18'	50.00'	49°28'40"	S16°28'37"E 41.85'
C8	71.50'	50.00'	81°55'55"	S49°13'41"W 65.56'
C9	71.61'	50.00'	82°03'22"	N48°46'13"W 65.64'
C10	43.06'	50.00'	49°20'45"	N16°55'50"E 41.74'
C11	21.68'	30.00'	41°24'35"	N20°53'55"E 21.21'

PAVING QUANTITIES

QTY	UNIT	ITEM
33705	SF	HMA PAVEMENT
2450	LF	4" CONCRETE SIDEWALK
2323	LF	CURB & GUTTER

SANITARY SEWER QUANTITIES

QTY	UNIT	ITEM
1066	LF	8" PVC SDR 26
6	EA	4" MANHOLE

WATER MAIN QUANTITIES

QTY	UNIT	ITEM
1213	LF	8" DI CL 54 WATER MAIN
5	LF	6" DI CL 54 WATER MAIN
2	EA	8"x8"x6" TEE
8	EA	8" 45° BEND
20	EA	8" 22.5° BEND
1	EA	8" 11.25° BEND
3	EA	STANDARD HYDRANT ASSEMBLY

STORM SEWER QUANTITIES

QTY	UNIT	ITEM
55	LF	12" HDPE
2	EA	2" MANHOLE
2	EA	4" MANHOLE

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CLIENT :

HYLAND ASSOCIATES, LLC

7545 S. 10TH STREET
KALAMAZOO, MI 49009
269-207-2920
269-207-2239

LAYOUT PLAN

OAKLAND FARMS NO. 4
PART OF THE SW & SE 1/4
OF SEC. 29, T.3S., R.11W.,
CITY OF PORTAGE, KALAMAZOO COUNTY, MI

DATE	PLAN SUBMITTALS/REVISIONS
8/7/2024	FINAL PRELIMINARY PLAT TO CITY
9/17/2024	FINAL PRELIMINARY PLAT TO CITY
10/22/2024	FINAL PRELIMINARY PLAT TO CITY
11/17/2024	FINAL PRELIMINARY PLAT TO CITY

ORIGINAL ISSUE DATE:
6/3/2024

PROJECT NO: 24-013

SCALE: 1" = 50'

0 1/2" 1"

FIELD:
DRAWN BY: CSD
DESIGN BY: DJ
CHECK BY: PF

C 10

NOT FOR CONSTRUCTION

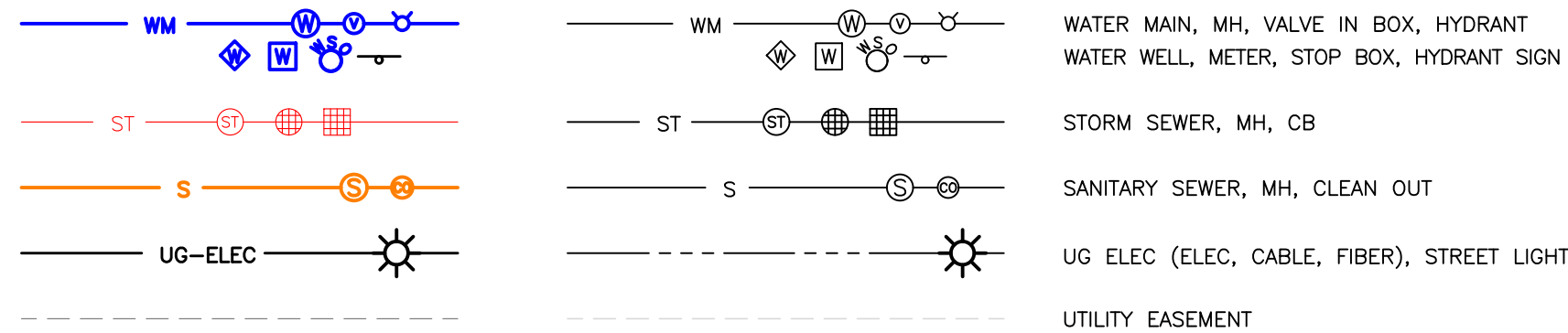




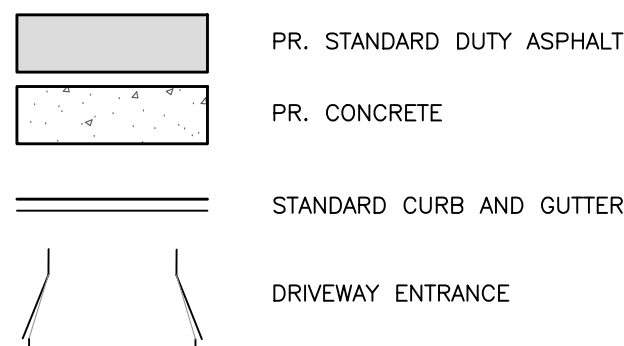
UTILITY LEGEND

PROPOSED

EXISTING



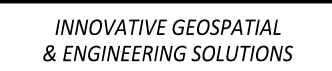
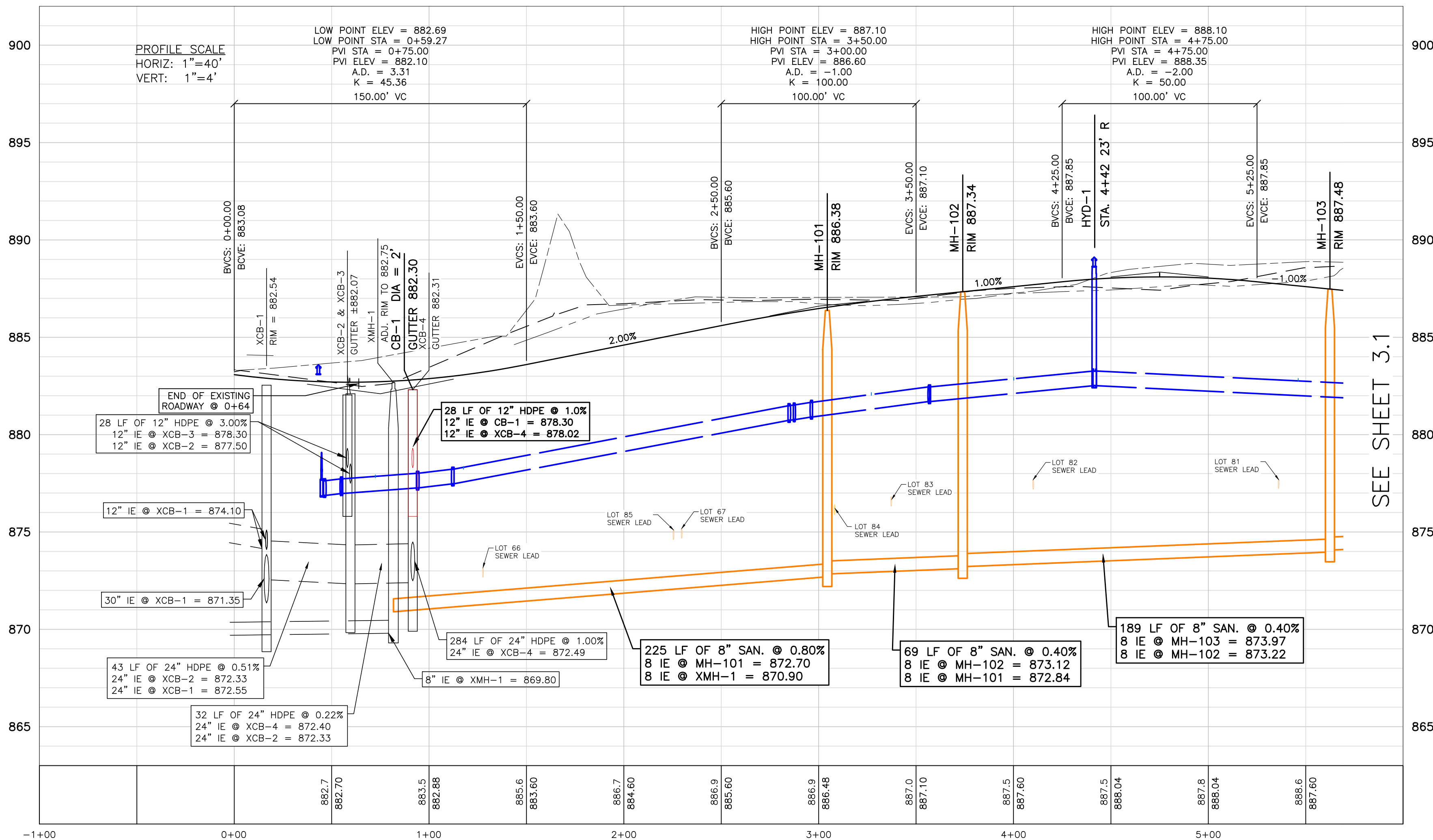
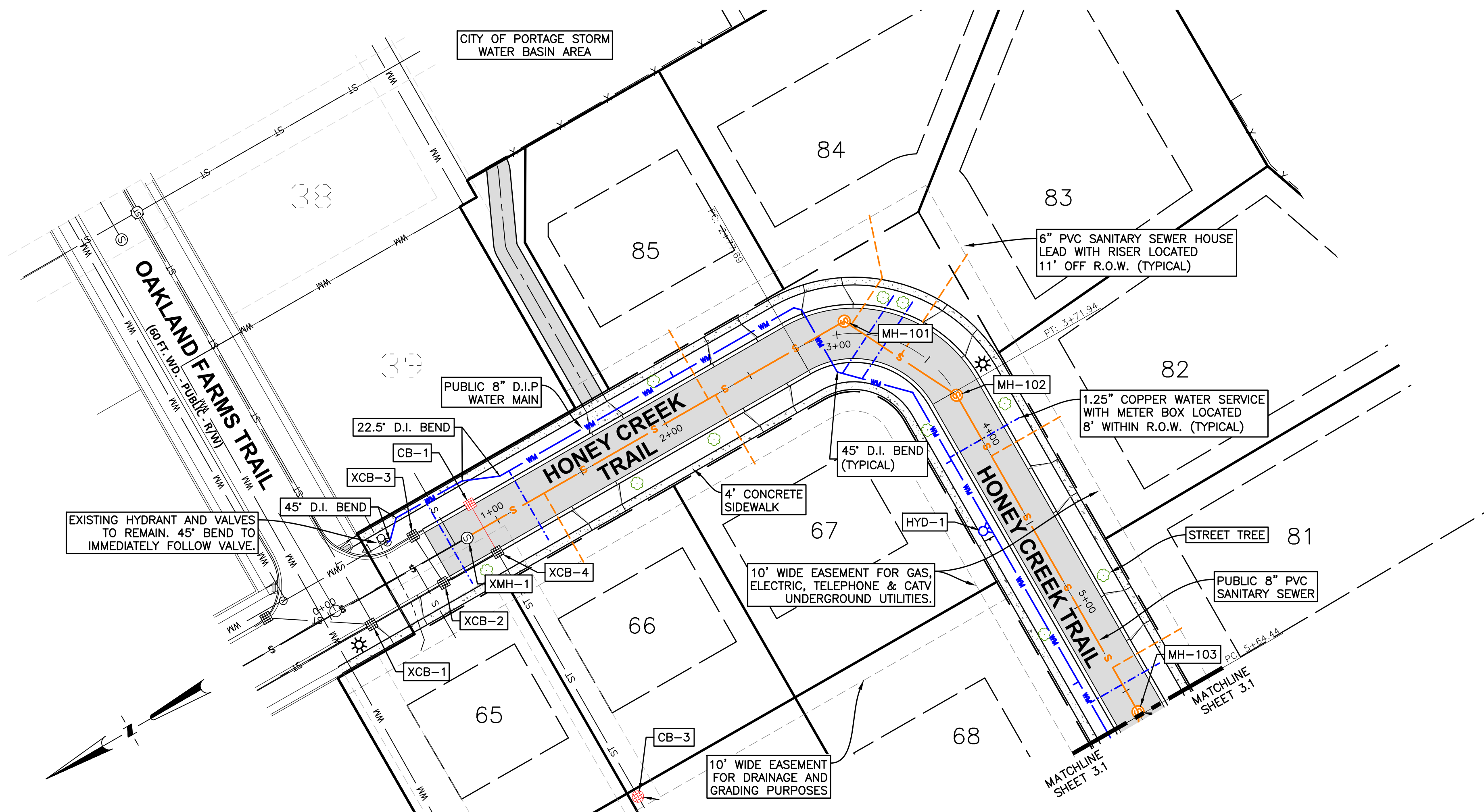
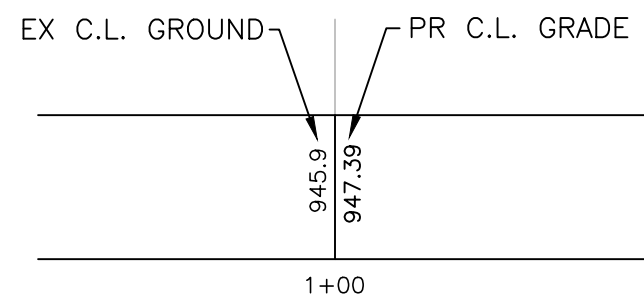
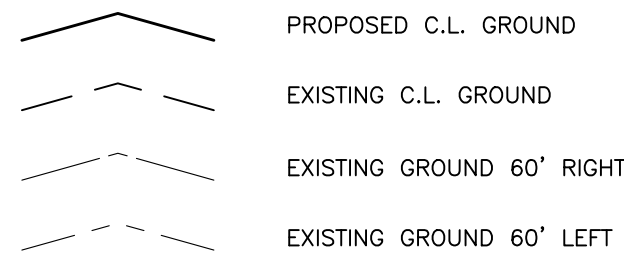
PAVEMENT LEGEND



UTILITY NOTES

1. WATER MAINS AND THEIR APPURTENANCES SHALL BE WRAPPED IN POLYETHYLENE MATERIAL IN ACCORDANCE WITH AWWA C105. AT THE DEVELOPER'S OPTION WITH THE CITY'S APPROVAL, POLYETHYLENE WRAP MAY BE OMITTED IF WATER MAIN BEDDING SOILS ARE TESTED AND EVALUATED IN ACCORDANCE WITH APPENDIX A OF AWWA C105. SOIL EVALUATION IS TO BE TAKEN AT PIPE DEPTH AT 500 FOOT INTERVALS ALONG WITH THE WATER MAIN ROUTE. TESTS NEED TO BE PERFORMED BY QUALIFIED ENGINEERS OR TECHNICIANS EXPERIENCED IN SOIL ANALYSIS AND EVALUATION. THE TESTING NEEDS TO BE CONDUCTED IN ACCORDANCE WITH ASTM TESTS: G51-PH, G200-REDOX, G187-RESISTIVITY, AND 4500 S METHYLENE BLUE METHOD FOR SULFIDE. THE TESTING AND EVALUATION TO DETERMINE WHETHER POLYETHYLENE ENCASEMENT SHOULD BE USED NEEDS TO BE COMPLETED AND A COPY OF THE EVALUATION PROVIDED TO THE CITY FOR APPROVAL. SOIL TESTING AND EVALUATION NEED TO BE PERFORMED AFTER THE EARTHWORK IS COMPLETED AND BEFORE ANY WORK ON THE WATER MAIN MAY BEGIN.
2. THE GROUND GRADE ABOVE THE WATER MAIN IS 0.4' ABOVE THE CENTERLINE GRADE & THE GUTTER IS 0.41' BELOW THE CENTERLINE GRADE IN THE PROPOSED PROFILE.
3. PROPOSED WATER MAIN SHALL HAVE A MINIMUM OF 5.0' OF COVER AND A MAXIMUM OF 6.0' OF COVER AT INSTALLED LOCATION.
4. SERVICES SHALL MAINTAIN AT LEAST 12" OF VERTICAL SEPARATION AT UTILITY CROSSINGS. WATER MAIN SHALL ALSO MAINTAIN 18" OF VERTICAL SEPARATION (MINIMUM) BETWEEN WATER MAIN AND STORM SEWER/ SANITARY SEWER.
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PROFILE LEGEND



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FINAL PRELIMINARY PLAT TO CITY	11/14/2024

ORIGINAL ISSUE DATE:
6/3/2024

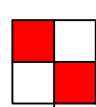
PROJECT NO: 24-013

SCALE: 1" = 40'

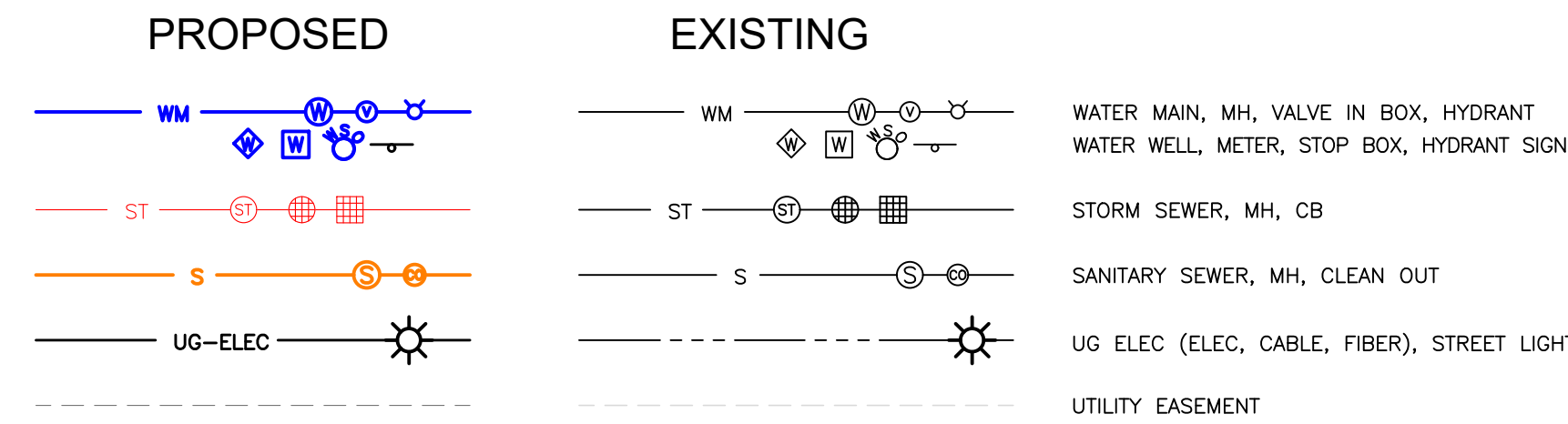
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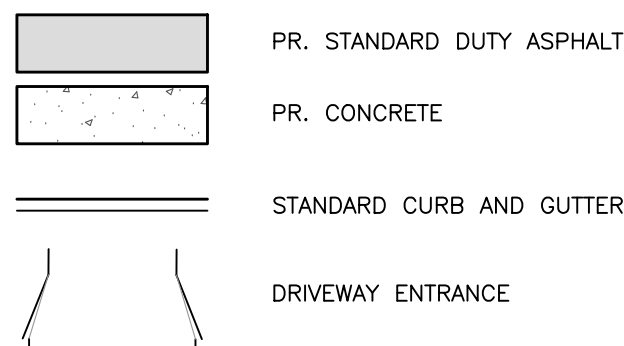
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UTILITY LEGEND



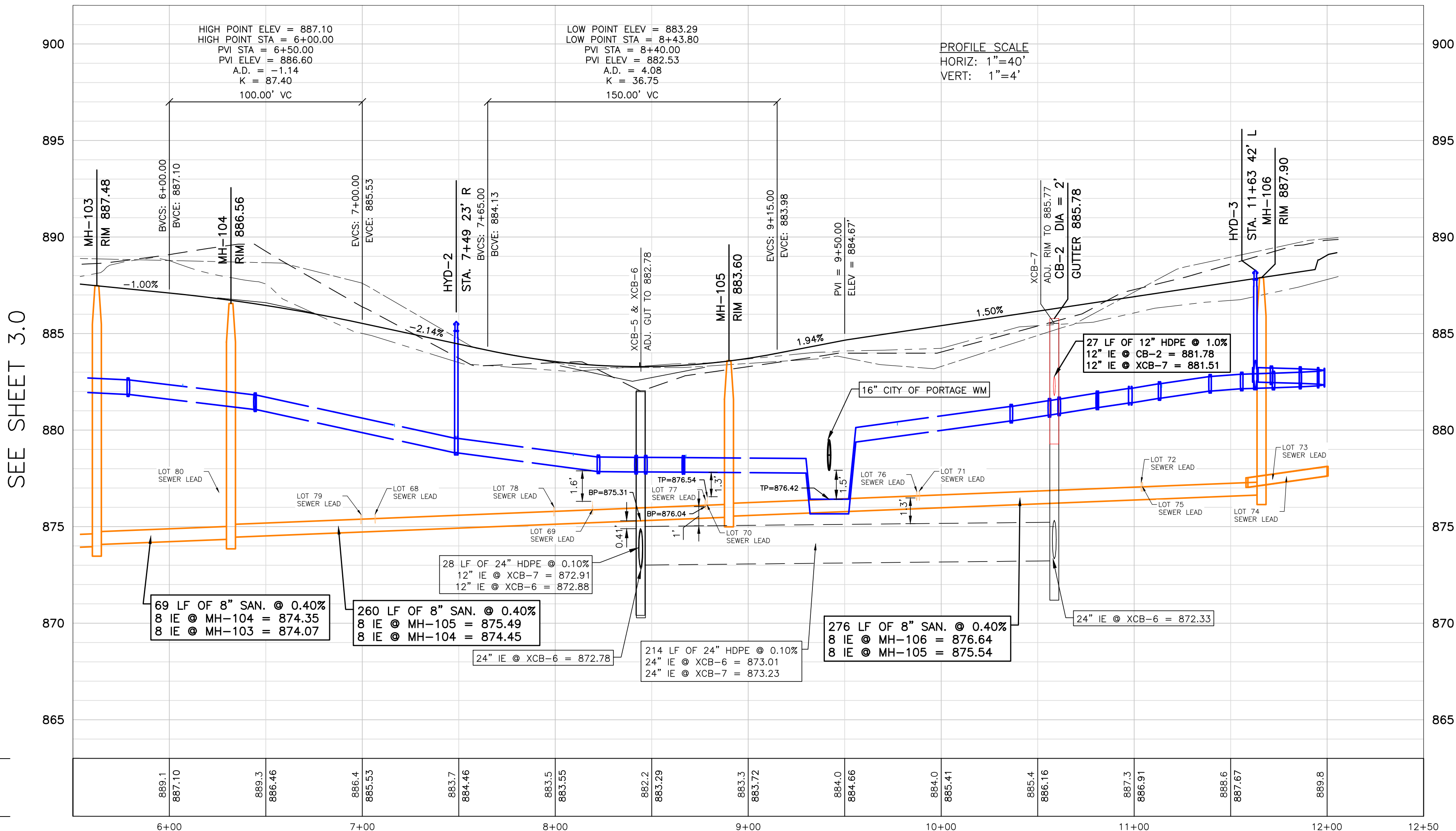
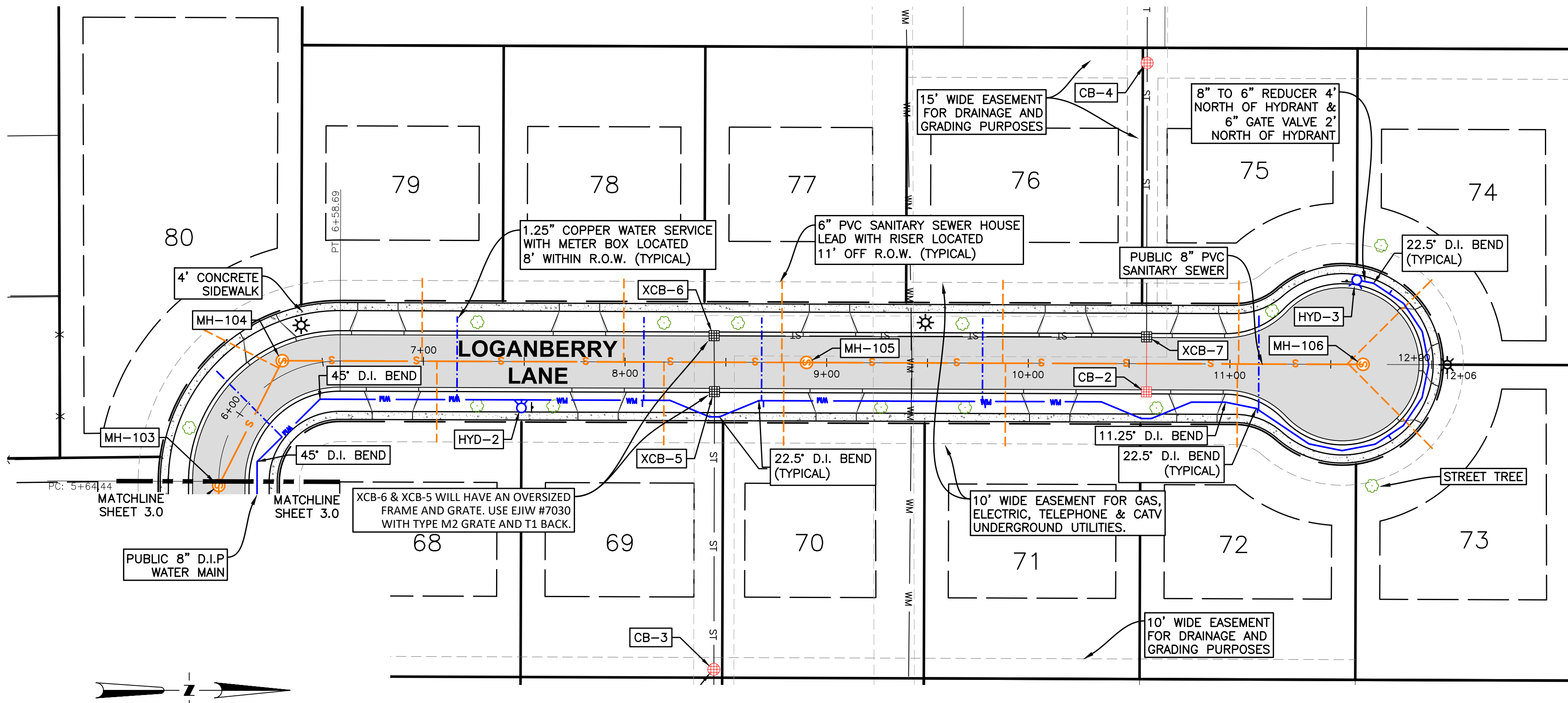
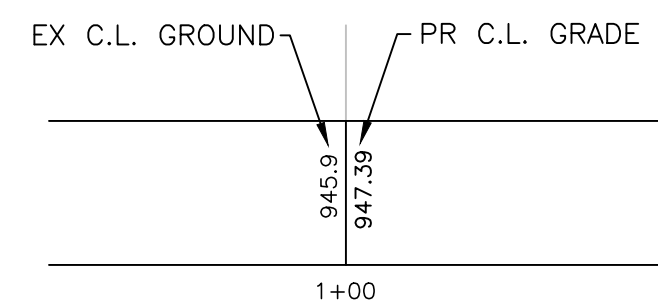
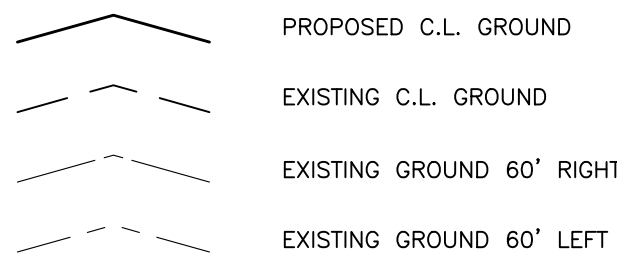
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PROFILE LEGEND



UTILITY PLAN & PROFILE

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ORIGINAL ISSUE DATE:
6/3/2024

PROJECT NO: 24-013

SCALE: 1" = 40'

0 1/2" 1"

FIELD: NP
DRAWN BY: CSD
DESIGN BY: DJ
CHECK BY: PF

C 3.1

NOT FOR CONSTRUCTION



SESC LEGEND

- SILT FENCE
- — — — — LIMITS OF DISTURBANCE

GRADING LEGEND

- 900— EXISTING CONTOUR
- 900— PROPOSED CONTOUR

SOIL EROSION CONTROL NOTES

- SOIL EROSION & SEDIMENTATION CONTROL PERMIT SHALL BE OBTAINED FROM THE CITY OF PORTAGE. TWO COPIES OF THESE PLANS, AN APPLICATION FORM, AND FEES SHALL BE SUBMITTED AS REQUIRED. PERMIT SHALL BE OBTAINED PRIOR TO ANY EARTHMOVING OPERATIONS.
- ALL WORK MUST COMPLY WITH THE PROVISIONS OF PART 91 OF THE EROSION AND SEDIMENTATION CONTROL ACT OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT P.A. 451 OF 1994, AS AMENDED, AND AS ADMINISTERED BY THE CITY OF PORTAGE.
- ALL PROPOSED EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS CONTAINED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S SOIL EROSION AND SEDIMENTATION CONTROL MANUAL (MOST CURRENT EDITION). MANUAL IS AVAILABLE ON-LINE OR AT THIS OFFICE.
- ON-SITE SOILS ARE SHOWN AS SPB (SPINKS SANDY LOAM) AND OSB (OSHTEMO SANDY LOAM) WITHIN THE USDA'S SOIL SURVEY OF KALAMAZOO COUNTY, MICHIGAN.

PERMANENT SOIL EROSION CONTROL MEASURES

- ON LOTS WITH POOR SOILS, SOILS UNDER BASEMENT AND FOUNDATION MAY NEED REMOVAL AND REPLACEMENT WITH SANDY, GRANULAR MATERIAL. FINAL SITE GRADING SHALL BE DONE WITH CARE TO ADDRESS WATER RUNOFF IN ACCORDANCE WITH BUILDING SERVICES DEPT REQUIREMENTS & BUILDING INSPECTOR REQUIREMENTS.
- CERTAIN BUILDING FOOTINGS AND/OR BASEMENT FLOORS MAY SIT ON ENGINEERED FILL MATERIAL. FOR THESE SITES, PLACEMENT OF FILL, INSPECTION, AND/OR TESTING SHALL BE DONE IN ACCORDANCE WITH CITY OF PORTAGE REQUIREMENTS. GEOTECHNICAL TESTING COMPANY SHALL BE HIRED TO MONITOR AND/OR TEST THOSE FILL AREAS. THIS SHALL BE COORDINATED WITH THE CITY OF PORTAGE BUILDING SERVICES DEPT. REMOVAL OF TOPSOIL AND PLACEMENT OF FILL SOIL SHALL ALSO BE SUBJECT TO INSPECTION BY ENGINEERING COMPANY.
- GRADING AND EARTH MOVING IN AREAS OUTSIDE OF PROPOSED ROADWAY AREAS SHALL BE DONE IN STAGES SO THAT AN AREA CAN BE STRIPPED, SHAPED, TOPSOILED, AND SEEDED IN A MINIMAL AMOUNT OF TIME. THE AMOUNT OF DISTURBED GROUND SHALL BE KEPT TO A MINIMUM DURING THE CONSTRUCTION PROJECT. DISTURBED AREAS SHALL BE RESTORED BY THE CONTRACTOR AS SOON AS CONVENIENTLY POSSIBLE.
- DURING HOUSE CONSTRUCTION, FINAL GRADING NEAR HOUSE (& WITHIN LOT) SHALL BE COMPLETED SUCH THAT RUN-OFF WATER WILL NOT BE DIRECTED TOWARDS ANY HOUSE AND WILL NOT BE DIRECTED ONTO ADJOINING PROPERTIES.

TEMPORARY SOIL EROSION CONTROL MEASURES

- SILT FENCE AND OTHER TEMPORARY SESC MEASURES MAY BE REMOVED FROM SITE ONLY AFTER SITE HAS BECOME STABILIZED WITH VEGETATION RELATED TO UTILITY & ROADWAY CONSTRUCTION.
- SILT SACKS, OR OTHER MEASURE APPROVED BY THE CITY OF PORTAGE, SHALL BE USED AT EACH CATCH BASIN LOCATION.
- EROSION CONTROL BLANKETS SHALL BE PROPERLY INSTALLED ON ANY DISTURBED SLOPE THAT HAS A SLOPE OF 25% OR STEEPER (4:1 OR STEEPER).
- SPOILS PILE(S) SHALL BE SEEDED AND ENCIRCLED WITH SILT FENCE IF SPOIL PILE WILL NOT BE DISTURBED DISTURBED FOR A PERIOD OF 30 DAYS OR MORE.
- EARTH GRADING AROUND ALL NEW SANITARY SEWER AND STORM SEWER MANHOLES/CATCH BASINS SHALL BE SUCH THAT RAIN WATER/EROSION RUN-OFF CANNOT ENTER MANHOLE/CATCH BASIN. MINIMUM ONE FOOT TALL EARTH BERM SHALL ENCIRCLE EACH MANHOLE/CATCH BASIN.
- ALL STREETS SHALL BE KEPT CLEAR OF SOIL AND MUD. CONTRACTOR SHALL SWEEP/CLEAN NEARBY STREETS AS NECESSARY.
- ANY EVIDENCE OF SOIL EROSION SHALL BE EXAMINED AND ADDRESSED BY CONTRACTOR. INVOLVEMENT BY ENGINEER AND/OR CITY OF PORTAGE MAY BE NECESSARY.
- SOIL EROSION SHALL NOT BE ALLOWED ONTO ADJOINING PROPERTIES OR ONTO NATURAL AREAS OUTSIDE OF PROPOSED CONSTRUCTION AREA.

RESTORATION NOTES

- DURING HOUSE CONSTRUCTION, FINAL GRADING NEAR HOUSE (& WITHIN LOT) SHALL BE COMPLETED SUCH THAT RUN-OFF WATER WILL NOT BE DIRECTED TOWARDS ANY HOUSE AND WILL NOT BE DIRECTED ONTO ADJOINING PROPERTIES.
- SOIL EROSION METHODS WILL BE MONITORED DURING CONSTRUCTION OF THE INFRASTRUCTURE AND THE RESIDENTIAL UNITS. IF LARGE AMOUNTS OF DIRT AND SEDIMENT ARE TRACKED ONTO THE ROADWAYS DURING CONSTRUCTION, THE STORM WATER TREATMENT SYSTEM MAY NEED TO BE CLEANED PRIOR TO ISSUANCE OF THE FINAL BUILDING PERMIT FOR THIS SITE CONDOMINIUM. AN INSPECTION OF THE INFILTRATION BASIN WILL BE PERFORMED FOLLOWING COMPLETION OF CONSTRUCTION, AND IF THERE IS A BUILD-UP OF SEDIMENT ON THE BOTTOM OF THE BASIN, THE SEDIMENT WILL NEED TO BE REMOVED.
- ALL DISTURBED AREAS SHALL BE RESTORED WITH MINIMUM 4" TOPSOIL, GRASS SEED AND MULCH, OR OTHER REQUIRED LANDSCAPING.
- EXISTING STREETS SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION.

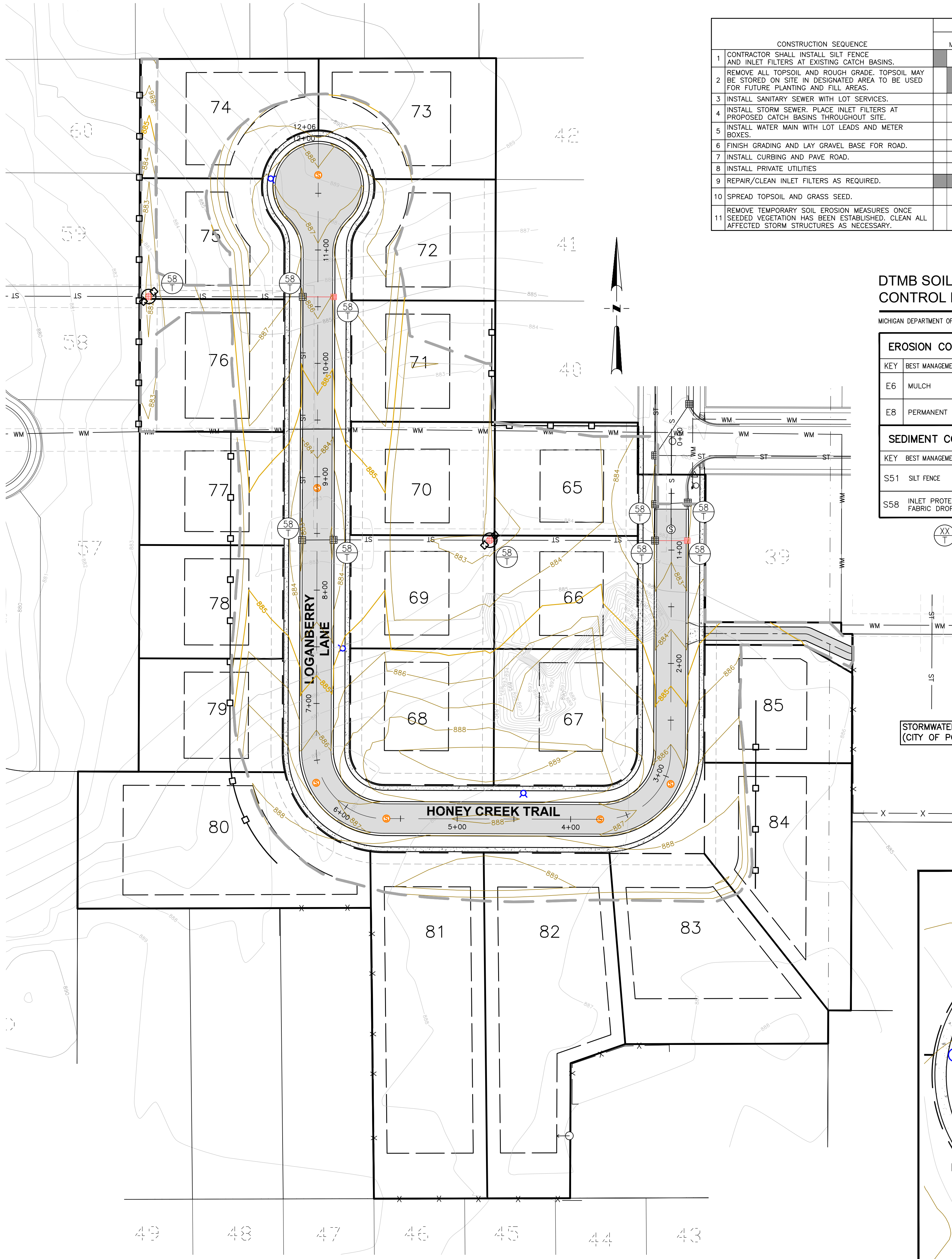
MAINTENANCE NOTES

- THE OWNER AND/OR CONDOMINIUM ASSOCIATION SHALL BE RESPONSIBLE FOR CONTINUED MAINTENANCE OF ALL ON-SITE PERMANENT EROSION CONTROL MEASURES. INSPECTIONS SHALL OCCUR AT LEAST ONCE PER YEAR. MAINTENANCE SHALL BE DONE BY COMPANY THAT HAS BEEN AUTHORIZED BY THE OWNER/CONDO ASSOCIATION.
- ALL PUBLIC STREETS AND ALL PUBLIC STORM SEWER SHALL BE MAINTAINED BY THE CITY OF PORTAGE.
- ALL YARDS SHALL BE MAINTAINED BY HOMEOWNERS.

GROUNDWATER CONTAMINATION NOTES

IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED OR SUSPECTED DURING CONSTRUCTION THE FOLLOWING STEPS SHALL BE FOLLOWED:

- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND/OR OWNER'S REPRESENTATIVE.
- OWNER AND/OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE CITY.
- OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED ENVIRONMENTAL CONSULTANT (CONSULTANT).
- CONSULTANT SHALL CONDUCT A SITE ASSESSMENT AND REPORT TO THE ABOVE PARTIES.
- CONSULTANT SHALL DEVELOP A PLAN TO ADDRESS ANY CONTAMINATION WHICH MAY BE FOUND DURING CONSTRUCTION.
- THE CONSULTANT TOGETHER WITH THE DESIGN ENGINEER SHALL COMPLETE A SITE EVALUATION PROCESS FOLLOWING THE DOCUMENT ENTITLED IMPLEMENTING STORMWATER INFILTRATION PRACTICES AT VACANT PARCELS AND BROWNFIELD SITES (EPA, 2013) TO DETERMINE IF THE STORMWATER MANAGEMENT SYSTEM REQUIRES REDESIGN AND RESUBMITTAL TO THE CITY FOR REVIEW AND APPROVAL.
- OWNER AND/OR OWNER'S REPRESENTATIVE SHALL SUBMIT TO THE CITY SUPPORTING DOCUMENTATION OF THE SITE EVALUATION PROCESS. A REVISED STORMWATER REVIEW PACKAGE MUST ALSO BE SUBMITTED IF IT BECOMES NECESSARY TO CHANGE THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM.
- MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) REMEDIATION AND REDEVELOPMENT DIVISION (RRD) STAFF SHALL BE NOTIFIED AS APPLICABLE.



CONSTRUCTION SEQUENCE		ESTIMATED OPERATION TIME SCHEDULE -- BEGINNING MONTH 2025				
		MARCH	APRIL	MAY	JUNE	JULY
1	CONTRACTOR SHALL INSTALL SILT FENCE AND INLET FILTERS AT EXISTING CATCH BASINS.					
2	REMOVE ALL TOPSOIL AND ROUGH GRADE. TOPSOIL MAY BE STORED ON SITE IN DESIGNATED AREA TO BE USED FOR FUTURE PLANTING AND FILL AREAS.					
3	INSTALL SANITARY SEWER WITH LOT SERVICES.					
4	INSTALL STORM SEWER, PLACE INLET FILTERS AT PROPOSED CATCH BASINS THROUGHOUT SITE.					
5	INSTALL WATER MAIN WITH LOT LEADS AND METER BOXES.					
6	FINISH GRADING AND LAY GRAVEL BASE FOR ROAD.					
7	INSTALL CURBING AND PAVE ROAD.					
8	INSTALL PRIVATE UTILITIES					
9	REPAIR/CLEAN INLET FILTERS AS REQUIRED.					
10	SPREAD TOPSOIL AND GRASS SEED.					
11	REMOVE TEMPORARY SOIL EROSION MEASURES. ONCE SEEDED VEGETATION HAS BEEN ESTABLISHED, CLEAN ALL AFFECTED STORM STRUCTURES AS NECESSARY.					

DTMB SOIL EROSION & SEDIMENTATION CONTROL MEASURES

MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET (DTMB)

EROSION CONTROLS			
KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E6	MULCH		FOR USE IN AREAS SUBJECT TO EROSION, SURFACE FLOWS OR SEVERE WIND OR ON NEWLY SEEDED AREAS.
E8	PERMANENT SEEDING		STABILIZATION METHOD UTILIZED ON SITES WHERE EARTH CHANGE HAS BEEN COMPLETED (FINAL GRADING ATTAINED).
SEDIMENT CONTROLS			
KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
S51	SILT FENCE		USE ADJACENT TO CRITICAL AREAS, TO PREVENT SEDIMENT LOADED SHEET FLOW FROM ENTERING THESE AREAS.
S58	INLET PROTECTION FABRIC DROP		USE AT STORMWATER INLETS, ESPECIALLY AT CONSTRUCTION SITES.
			TEMPORARY
			PERMANENT

EROSION CONTROL QUANTITIES

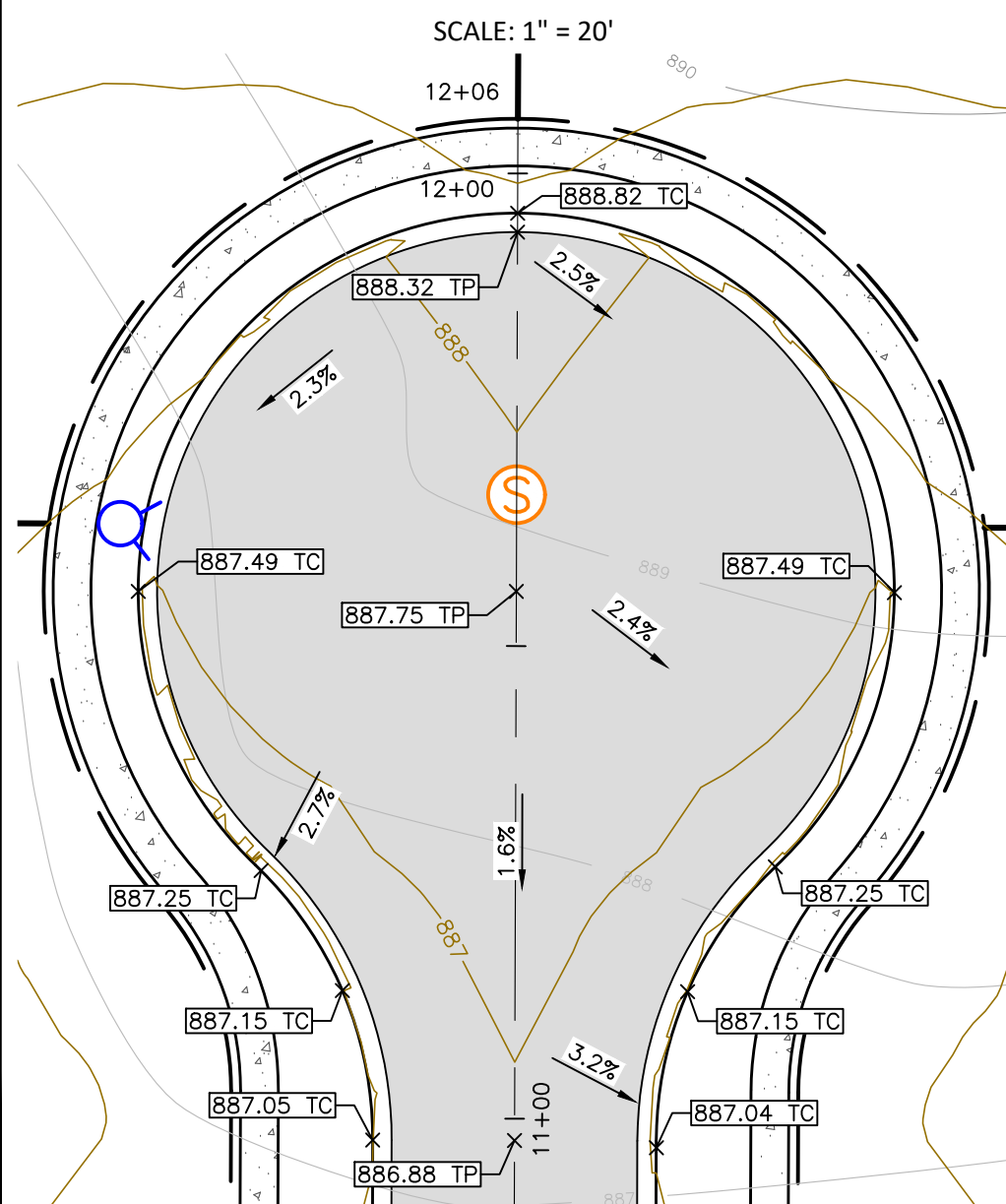
Disturbed Area: 4.43 Acres

QTY	UNIT	ITEM
1261	LF	SILT FENCE
10	EA	INLET FILTER

GRADING LEGEND

- 940.00 TP— PROPOSED TOP OF PAVEMENT GRADE
- 940.00 TC— PROPOSED TOP OF CURB GRADE

CUL-DE-SAC GRADING



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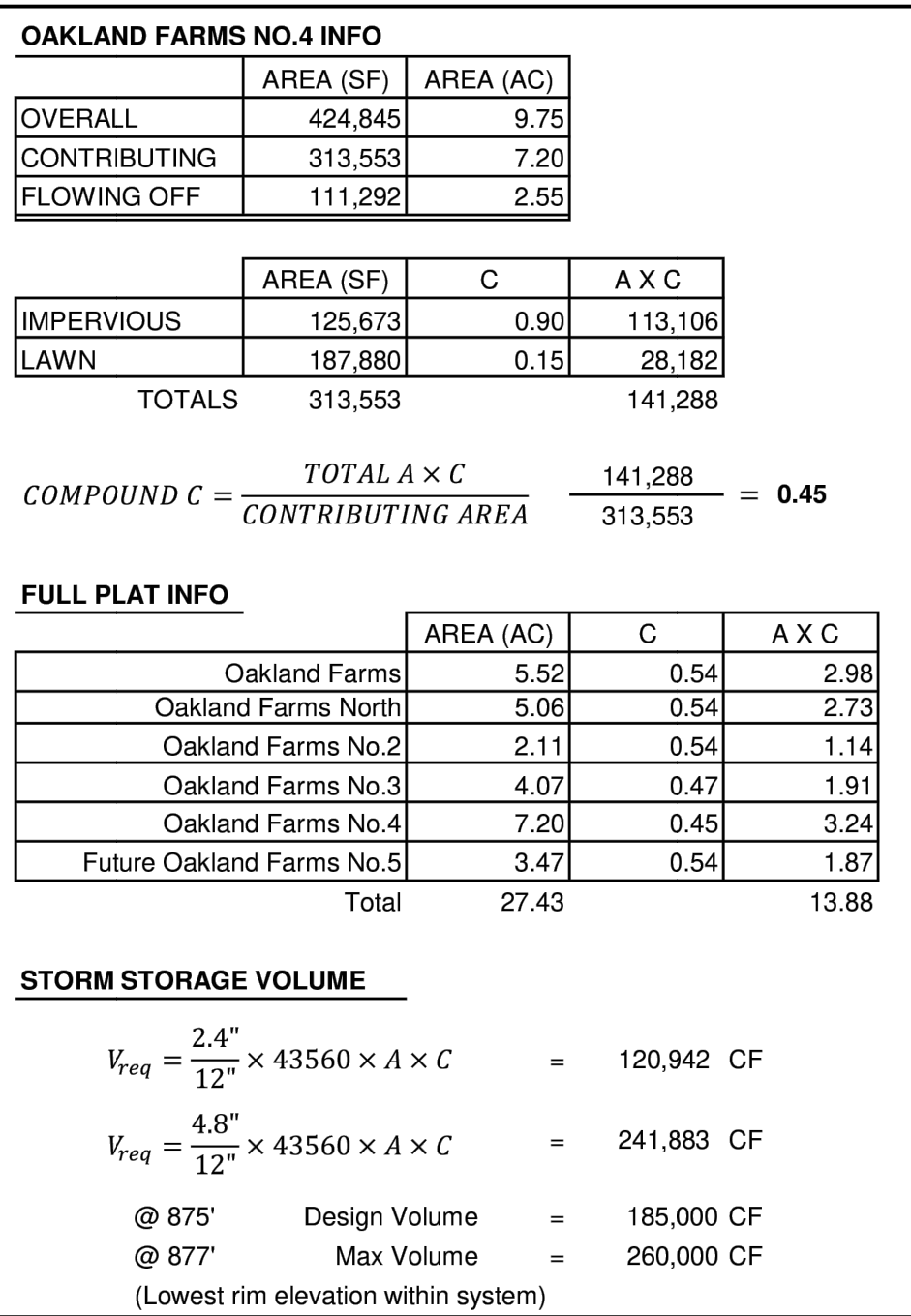
C-7.0

NOT FOR CONSTRUCTION





PIPE DATA				Manning's Coefficient				n = 0.012		HDPE		Q = C I A			
				Rainfall Intensity				I = 3.8		15 min. 10 year		PIPE CAP = A x 1.486/n x R ^{2/3} x S ^{1/2}			
	AREA A ac.	COEFF. C	FLOW Q c.f.s.	UPSTREAM FLOW c.f.s.	TOTAL Q c.f.s.	PIPE CAP. c.f.s.	PIPE AREA sq. ft.	PIPE LENGTH ft.	PIPE DIA. in.	PIPE SLOPE %	MIN PIPE SLOPE	VEL. FULL ft/sec	SUR CHARGE ft		
CB-4	0.66	0.25	0.63	7.25	7.88	7.74	3.14	136	24	0.10	0.10	2.47	0.00		
CB-2	0.35	0.57	0.76	0.00	0.76	3.86	0.79	28	12	1.00	0.04	4.91	0		
XCB-7	0.35	0.57	0.75	8.64	9.39	7.74	3.14	214	24	0.10	0.15	2.47	0.11		
XCB-6	1.22	0.53	2.47	9.39	11.86	8.12	3.14	28	24	0.11	0.23	2.59	0.14		
XCB-5	0.98	0.53	1.95	11.86	13.82	7.74	3.14	137	24	0.10	0.32	2.47	0.44		
CB-3	1.94	0.29	2.13	13.82	15.94	7.74	3.14	145	24	0.10	0.42	2.47	0.91		
CB-1	0.79	0.55	1.66	0.00	1.66	3.86	0.79	28	12	1.00	0.19	4.91	0.00		
XCB-4	0.55	0.53	1.09	17.61	18.70	11.49	3.14	32	24	0.22	0.58	3.66	1.03		
XCB-2 & 3	0.36	0.65	0.87	18.70	19.58	17.49	3.14	43	24	0.51	0.64	5.57	1.08		
XCB-1	0.68	0.54	1.40	23.84	25.23	24.32	4.91	245	30	0.30	0.32	4.96	1.14		
XCB-8	0.16	0.53	0.32	55.07	55.39	72.95	12.56	222	48	0.22	0.13	5.81	0.93		



C-9.0

NOT FOR CONSTRUCTION



WATER MAIN NOTES

- ALL WATER MAIN PIPE AND ITS INSTALLATION SHALL COMPLY WITH CITY OF PORTAGE STANDARD SPECIFICATIONS.
- WATER MAIN PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
 - 8" OR 10" WATER MAIN SHALL BE AWWA C151, CLASS 52 IRON PIPE.
 - 12" WATER MAIN SHALL BE AWWA C151, CLASS 53 IRON PIPE.
 - WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF PORTAGE DETAIL SD-153.
 - HYDRANT SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF PORTAGE DETAIL SD-145.

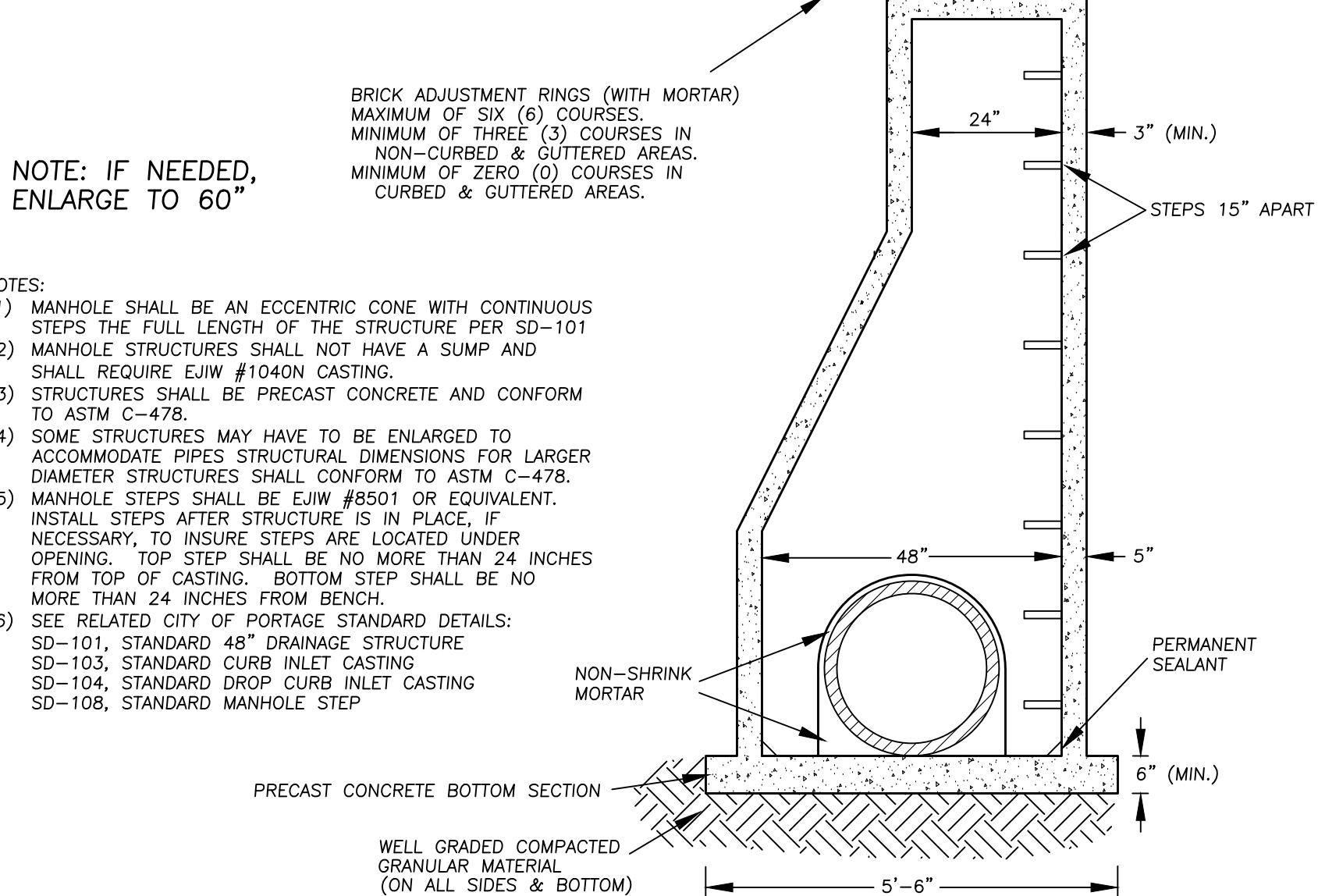
STREET LIGHTS, TREES, & SIGNS

- ALL PAVEMENT MARKING AND TRAFFIC SIGNS SHALL COMPLY WITH THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD)" OR OTHERWISE PUBLISHED CITY OF PORTAGE REQUIREMENTS.
- DECIDUOUS TREES AT PLANTING SHALL HAVE A MINIMUM CALIPER OF 1.5" AT 6" ABOVE THE ROOT BALL; A CLEAR STEM OF 4 FEET; AND A BURLAP BALL SIZE OF AT LEAST 10 TIMES THE CALIPER. ALLOWED TREES INCLUDE SARGENT CHERRY, AMUR CORKTREE, GOLDENRAIN TREE, MAPLES (HEDGE, PACIFIC SUNSET, TRIDENT, TATARIAN MAPLE), AMERICAN & EUROPEAN HORNBEAM, KATSURA TREE, IVORY SILK JAPANESE TREE LILAC, & ORNAMENTAL PEARS (CLEVELAND AND REDSPIRE CALLERY PEAR).
- STREET LIGHTS SHALL BE 8500 LUMEN, HIGH PRESSURE SODIUM VAPOR. DECORATIVE LIGHT POLES SHALL HAVE A HEIGHT OF 19 FEET. ALL LIGHT STANDARDS AND UTILITY POLES SHALL BE LOCATED AT LEAST 5 FEET OFF PROPOSED BACK OF CURB.

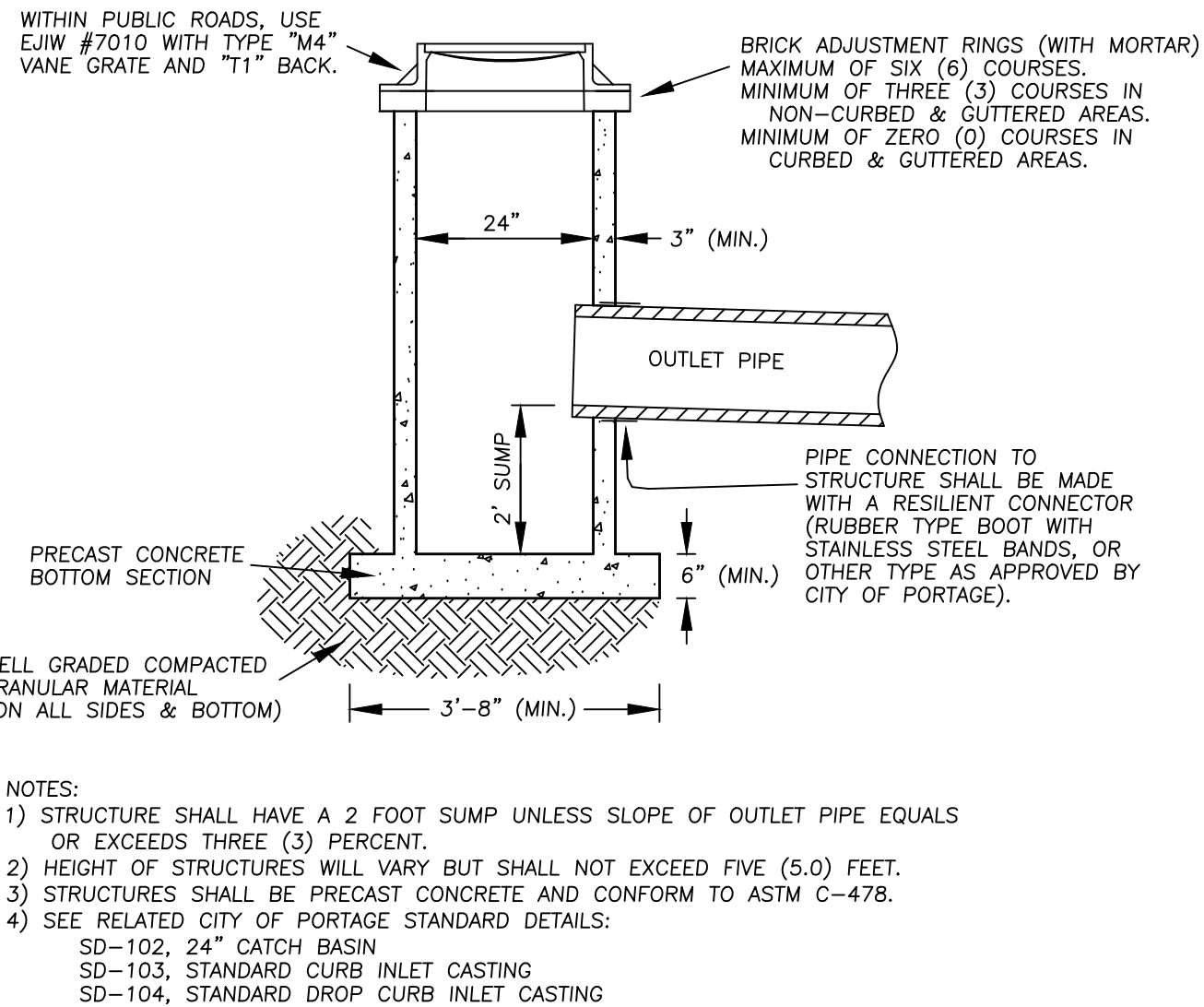
ADDITIONAL CITY OF PORTAGE DETAILS

- SD-106 SANITARY SEWER STANDARD MANHOLE CASTING
- SD-117 RESIDENTIAL DRIVEWAY APPROACH WITH CURBED STREET
- SD-145A STANDARD HYDRANT SIGN
- SD-153 TYPICAL SERVICE LINE AND METER BOX INSTALLATIONS
- SD-153A CURB STOP CONNECTION & FINAL SETTING OF CURB BOX
- SD-168 STANDARD TRENCH DETAIL FOR DUCTILE IRON WATER MAIN

DOGHOUSE BARREL MANHOLE



24" STORM SEWER INLET



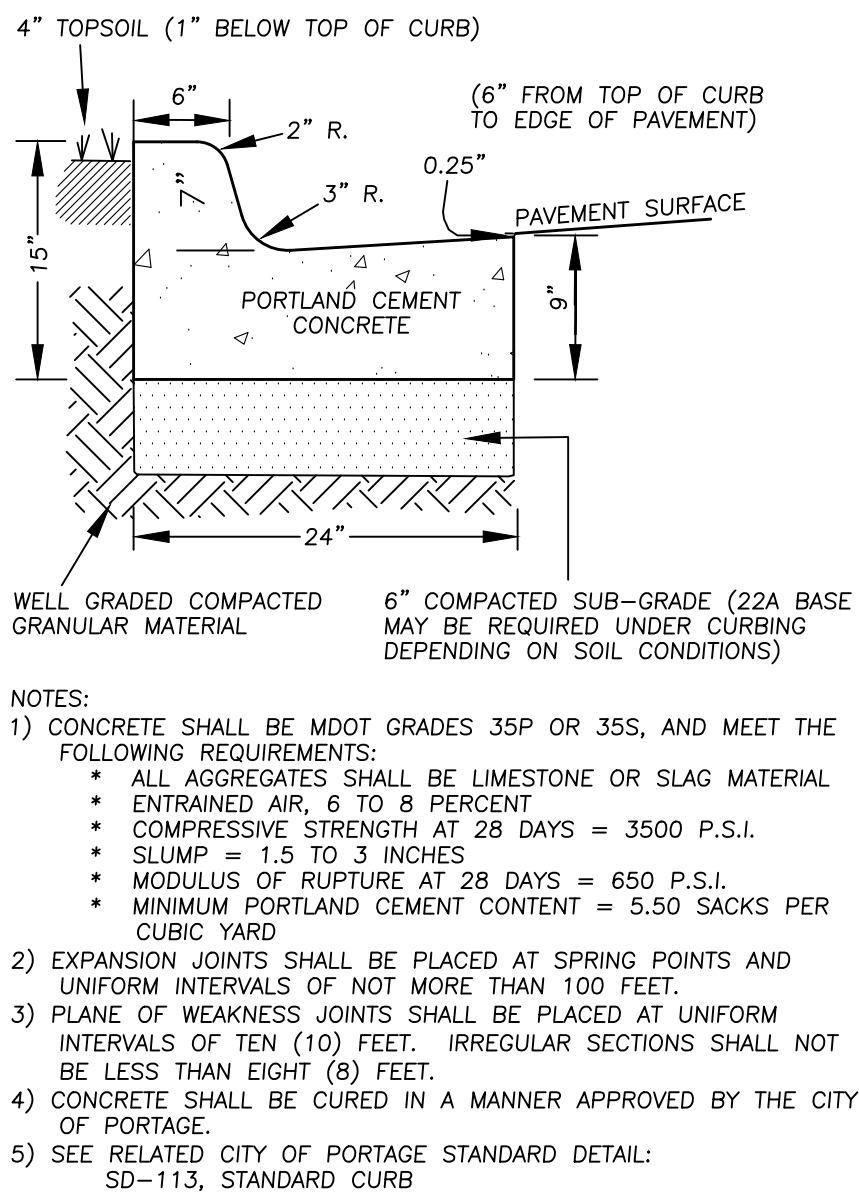
STORM SEWER NOTES

- ALL STORM SEWER PIPE AND ITS INSTALLATION SHALL COMPLY WITH CITY OF PORTAGE "CONSTRUCTION SPECIFICATIONS AND STANDARDS".
- STORM SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
 - CORRUGATED POLYETHYLENE (CPE) SHALL CONFORM TO AASHTO M-294 TYPE S (DUAL WALL, SMOOTH INSIDE, CORRUGATED OUTSIDE, NO PERFORATIONS). THE JOINTS CONFORMING TO ASTM D3212 OR EQUIVALENT.
 - REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO ASTM C-76, CLASS IV. JOINTS SHALL BE MODIFIED GROOVED TONGUE WITH RUBBER GASKET CONFORMING TO ASTM C-443. ALL PIPE LARGER THAN 24" SHALL BE REINFORCED CONCRETE PIPE.
- MANHOLES, CATCH BASINS, AND INLETS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS. PIPE CONNECTIONS SHALL BE MADE WITH A WATERTIGHT RESILIENT CONNECTOR (RUBBER TYPE BOOT WITH STAINLESS STEEL BANDS).
- ALL PUBLIC STORM SEWER PIPE SHALL BE TELEVIEWED IN ACCORDANCE WITH SECTION 208.2.6 OF THE CITY'S SPECIFICATIONS. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE WHERE NO PIPE SHALL EXCEED A DEFLECTION OF 5%. CONTRACTOR SHALL FURNISH CERTIFIED EVIDENCE THAT ALL MATERIAL TESTS AND INSPECTIONS HAVE BEEN PERFORMED.
- STORM SEWER PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

SANITARY SEWER NOTES

- ALL SANITARY SEWER PIPE AND ITS INSTALLATION SHALL COMPLY WITH CITY OF PORTAGE STANDARD SPECIFICATIONS.
- SANITARY SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
 - SDR26 PVC SHALL CONFORM TO ASTM D 3033 OR ASTM D 3034

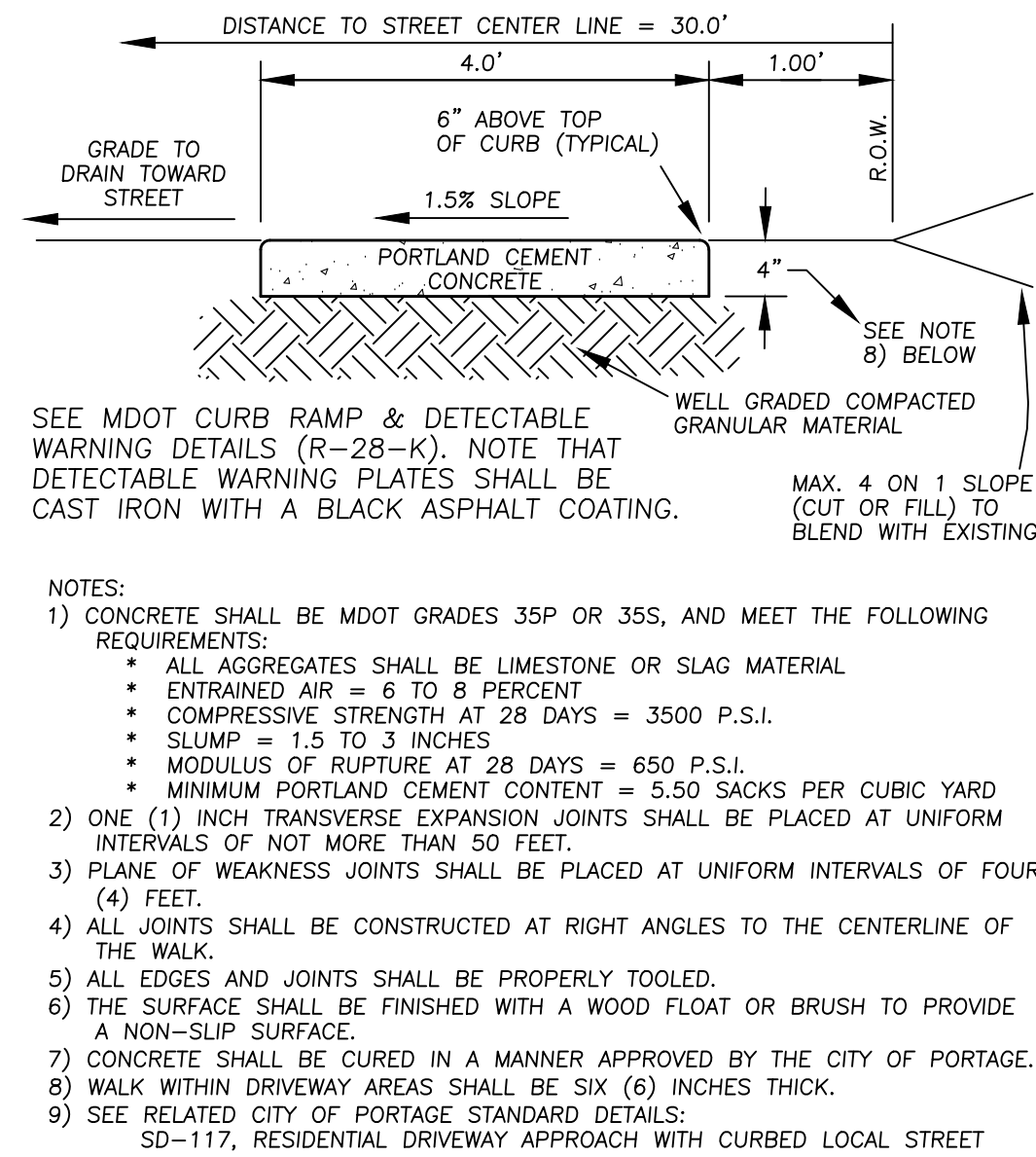
CURB & GUTTER



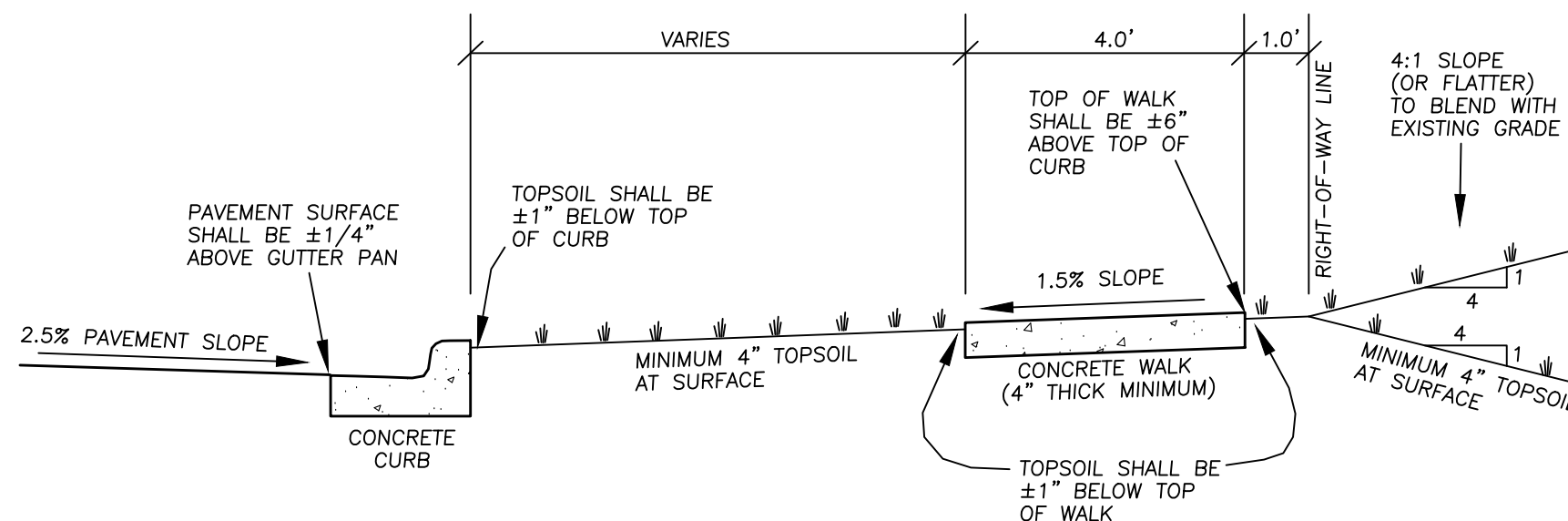
CURB RAMP

SEE THE CURRENT VERSION OF THE MDOT R-28 PLAN SERIES FOR DETAILS

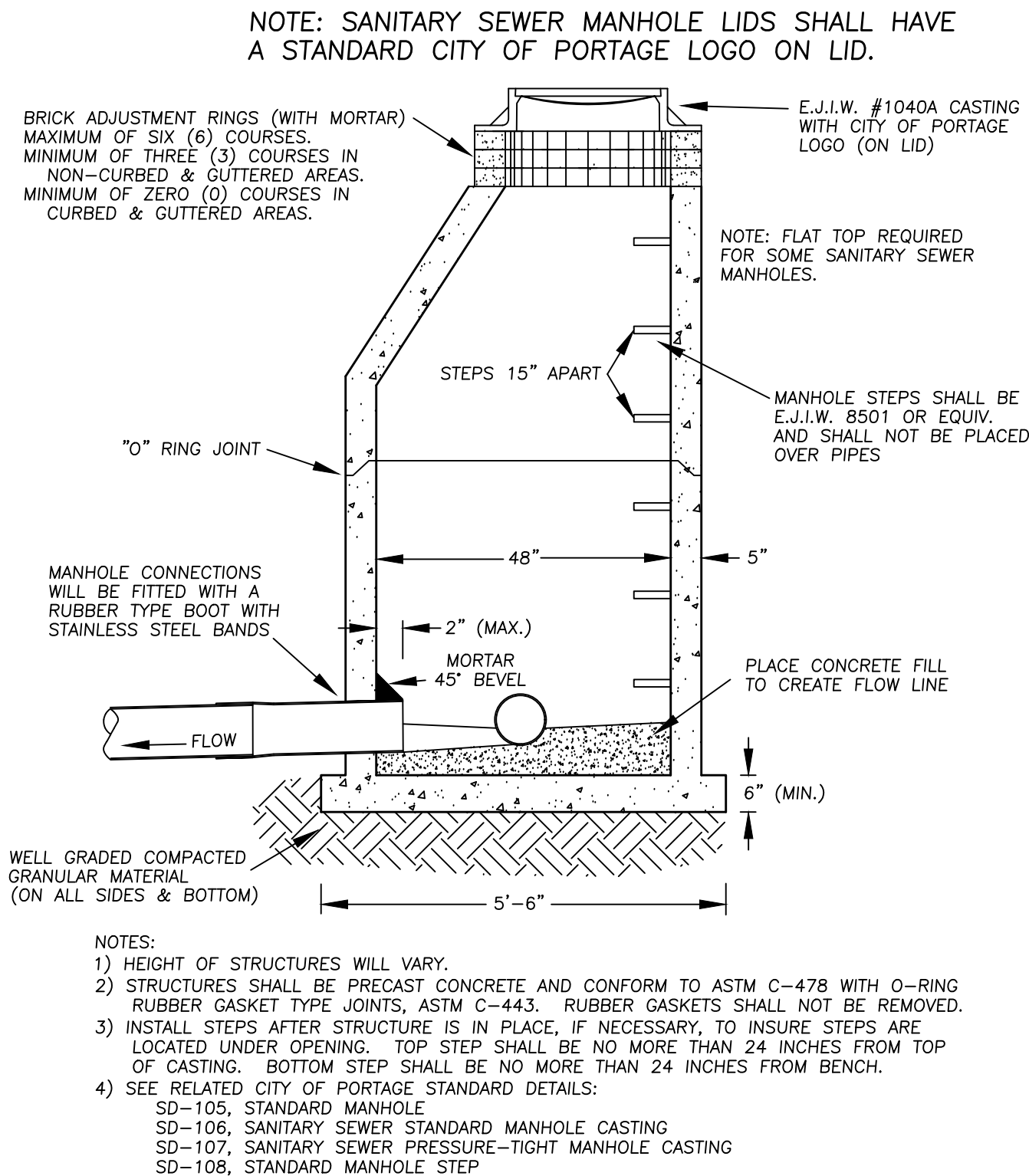
SIDEWALK



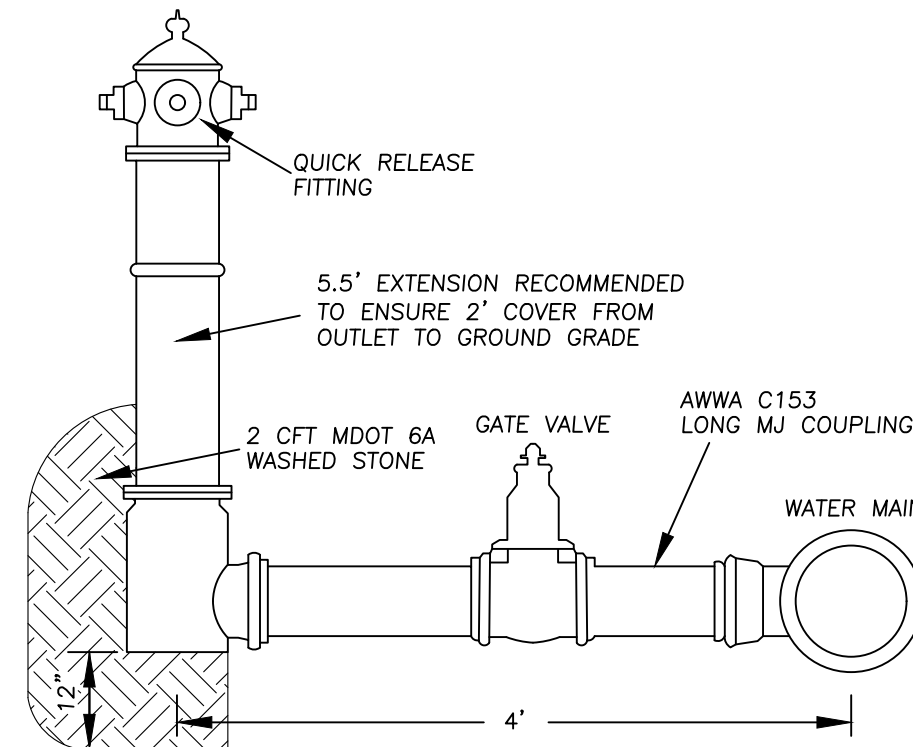
CURB / SIDEWALK GRADING



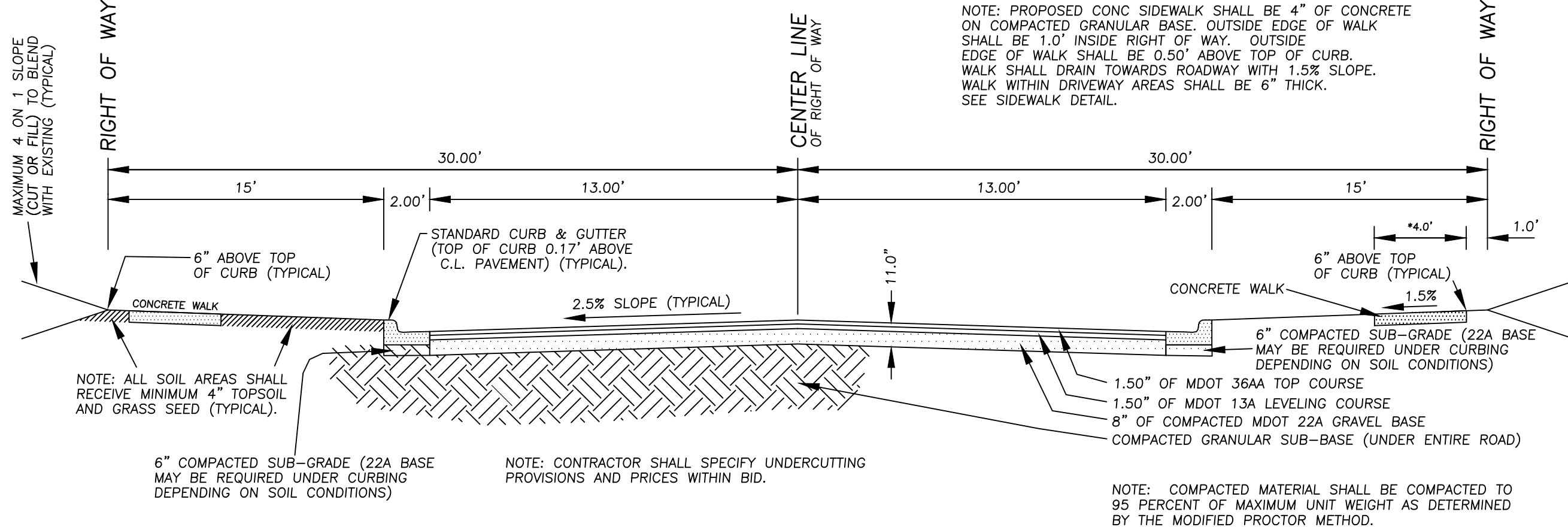
48" SANITARY SEWER MANHOLE



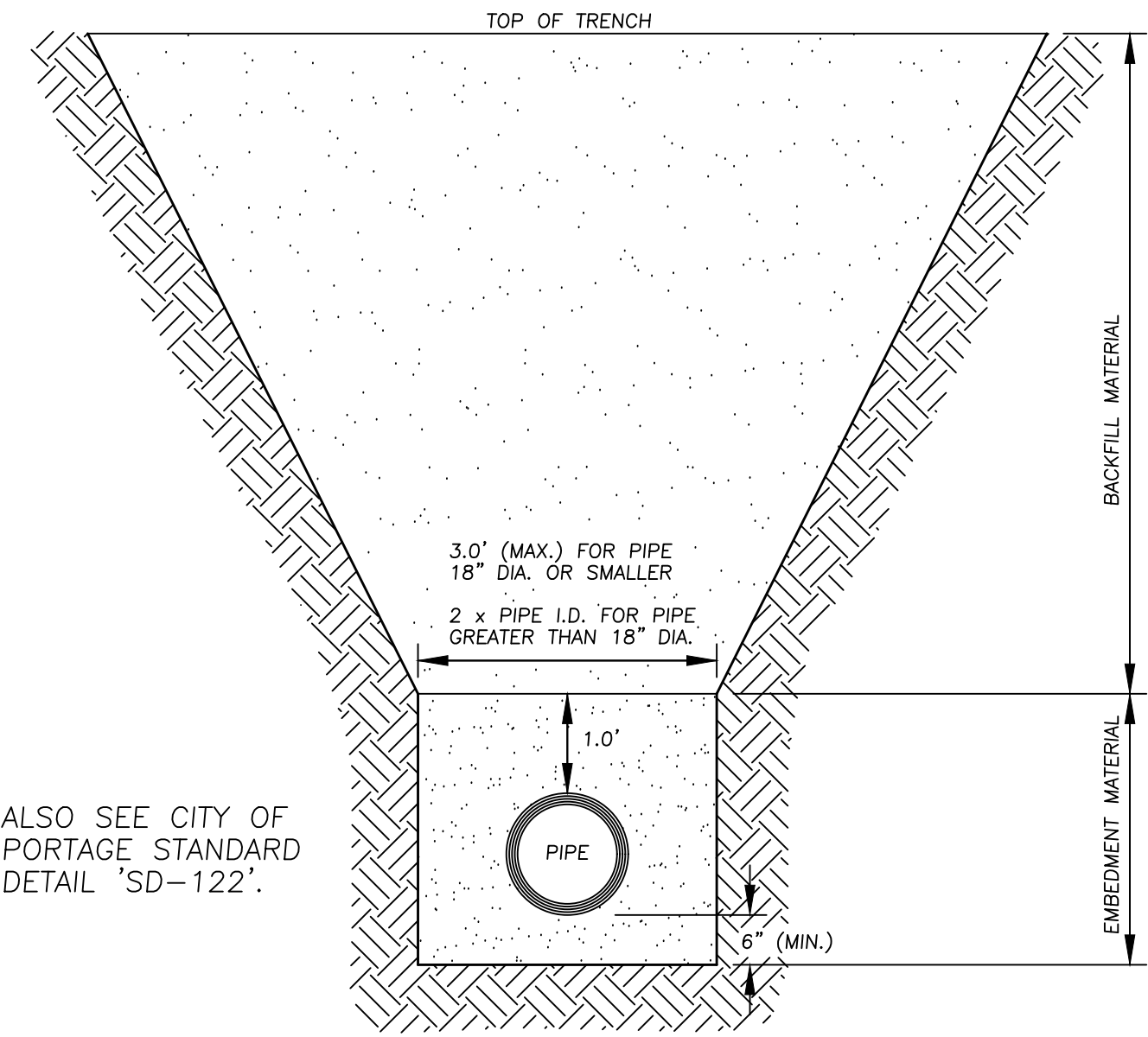
HYDRANT ASSEMBLY



PUBLIC ROAD CROSS-SECTION



UTILITY TRENCH DETAIL



- NOTES:
- LARGE ROCKS, BOULDERS, AND STONES OVER ONE (1.0) INCH IN DIAMETER SHALL BE REMOVED TO PROVIDE A CLEARANCE OF SIX (6) INCHES (MIN.) FROM ANY PART OF THE PIPE.
 - ALL EMBEDMENT AND BACKFILL MATERIALS SHALL BE FREE FROM FROZEN EARTH, ICE, SNOW, TOPSOIL, MUCK, CINDERS, ASHES, REFUSE, ORGANIC MATTER, BOULDERS, ROCKS, OR OTHER MATERIALS WHICH, IN THE OPINION OF THE ENGINEER, ARE UNSUITABLE.
 - EMBODMENT MATERIAL SHALL BE GRANULAR MATERIAL WITH MAXIMUM PARTICLE SIZE OF 1.0" COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
 - BACKFILL MATERIAL UNDER PAVEMENT AREAS AND AREAS WITHIN TRENCH INFLUENCE OF BACK OF CURB OR EDGE OF PAVEMENT SHALL BE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
 - BACKFILL MATERIAL FOR PIPE TRENCHES NOT UNDER PAVEMENT AREAS AND AREAS OUTSIDE OF TRENCH INFLUENCE MAY BE NONGRANULAR NATIVE MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS ACCEPTABLE MATERIAL AND IS ADEQUATELY COMPACTED TO PREVENT SETTLEMENT.
 - BACKFILL MATERIAL MAY BE PLACED, SPREAD, AND COMPACTED WITH EQUIPMENT OPERATED LONGITUDINALLY ALONG THE PIPE LINE. PUSHING MATERIAL INTO THE TRENCH FROM THE SIDE WITHOUT LONGITUDINAL SPREADING AND COMPACTION SHALL NOT BE ALLOWED.
 - SEE RELATED CITY OF PORTAGE STANDARD DETAIL: SD-122, STANDARD TRENCH DETAIL

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THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF ANY WORK.

CLIENT :

HYLAND ASSOCIATES, LLC

7545 S. 10TH STREET
KALAMAZOO, MI 49009
269-207-2920
269-207-2239

CONSTRUCTION DETAILS

OAKLAND FARMS NO. 4
PART OF THE SW & SE 1/4
OF SEC. 29, T.3S., R.11W.,
CITY OF PORTAGE, KALAMAZOO COUNTY, MI

DATE	PLAN SUBMITTALS/REVISIONS
8/7/2024	FINAL PRELIMINARY PLAT TO CITY
9/17/2024	FINAL PRELIMINARY PLAT TO CITY
10/22/2024	FINAL PRELIMINARY PLAT TO CITY
11/17/2024	FINAL PRELIMINARY PLAT TO CITY

ORIGINAL ISSUE DATE:
6/3/2024

PROJECT NO: 24-013

SCALE: N/A

FIELD: NP
DRAWN BY: CSD
DESIGN BY: DJ
CHECK BY: PF

C-11.0





GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL MUNICIPALITY, THE LOCAL WATER AND/OR SEWER AUTHORITY, THE COUNTY OF W. MICHIGAN, THE MICHIGAN COMMISSIONER, MICHIGAN DEPARTMENT OF TRANSPORTATION, MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY, THE STATE OF MICHIGAN, AND THE COUNTY ROAD COMMISSION WHERE APPLICABLE.
- RULES, REGULATIONS OR LAWS OF ANY CONTROLLING GOVERNMENTAL AGENCY SHALL GOVERN, WHEN THEY ARE MORE STRINGENT THAN THE REQUIREMENTS OF THESE SPECIFICATIONS.
- SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT-ISSUING AGENCIES, CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPLETE THE TYPE OF WORK WHICH IS BID, IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, DETAILS AND TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVE.
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAYS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL PERMITS HAVE BEEN ISSUED BY THESE GOVERNING AUTHORITIES.
- ALL NECESSARY PERMITS, BONDS, INSURANCES, ETC., SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL ELEVATIONS SHOWN ARE BASED ON BENCHMARKS PROVIDED BY THE LOCAL MUNICIPALITY UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL ITEMS OF WORK NOT SPECIFICALLY INDICATED AS PAY ITEMS ON THE DRAWINGS OR IN THE BID PACKAGE SHALL BE CONSIDERED INCIDENTAL ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION.
- AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG (1-800-482-7171) TO VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND SHALL NOTIFY PERMITTEES OF OTHER UTILITIES IN THE VICINITY OF THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
- MANHOLE, CATCH BASIN, GATE WELL RIMS AND HYDRANT FINISH GRADE ELEVATIONS MUST BE AS-BUILT AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE. AGENCY REQUIREMENTS FOR RECORD DRAWINGS ALSO APPLY.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS, AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS, THE BURNING OR BURYING OF TRASH, STUMPS OR OTHER DEBRIS WILL NOT BE ALLOWED.
- ALL REFERENCES TO M.D.O.T. SPECIFICATIONS REFER TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALL CONTRACTORS BIDDING THIS PROJECT SHALL HAVE VISITED THE SITE TO BECOME THOROUGHLY FAMILIAR WITH THE SITE AND THE CONDITIONS IN WHICH THEY WILL BE CONDUCTING THEIR OPERATIONS, ANY VARIANCE FOUND BETWEEN THE PLANS AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UNDERGROUND FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION PROVIDED BY THE UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WITHOUT UNCOVERING AND MEASURING, THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN.
- THE OWNER MAY EMPLOY AND PAY FOR THE SERVICES OF AN ENGINEER TO PROVIDE ON-SITE INSPECTION AND VERIFY IN THE FIELD THAT ALL BACKFILL, PAVEMENTS AND CONCRETE CURB AND GUTTER HAVE BEEN PLACED AND COMPACTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IF, IN THE OPINION OF THE ENGINEER, THE WORK DOES NOT MEET THE TECHNICAL OR DESIGN REQUIREMENTS STIPULATED FOR THE WORK, THE CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT SPECIFIC WRITTEN APPROVAL OF THE OWNER.
- ALL EXCAVATED MATERIAL REMOVED FROM THE SANITARY SEWER, STORM SEWER AND WATER MAIN TRENCHES UNDER, THROUGH AND WITHIN 3 FEET OF THE 45° ZONE OF INFLUENCE LINE, OR EXISTING OR PROPOSED PAVING, SIDEWALK AREAS AND PER PLANS, NOT SUITABLE FOR BACKFILL, SHALL BE REMOVED FROM THESE AREAS AND DISPOSED OF.
- THE CONTRACTOR SHALL RESTORE TO THEIR PRESENT CONDITIONS ANY PAVEMENT OR PUBLIC RIGHTS-OF-WAY THAT IS DISTURBED BY THE OPERATIONS OF THE CONTRACTOR. ALL RESTORATION WORK IN PUBLIC RIGHTS-OF-WAY SHALL BE PERFORMED TO THE SATISFACTION OF THE GOVERNMENT AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE AND LIGHTS TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC, IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- O.S.H.A. SAFETY REQUIREMENTS – ALL WORK, WORK PRACTICE, AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY, OCCUPATIONAL HEALTH AND ENVIRONMENTAL REGULATIONS AND ALSO NFPA AND ANSI CODES AS APPLICABLE. ALL WORK INSIDE A CONFINED SPACE SUCH AS MANHOLES OR UNDERGROUND STRUCTURES SHALL BE COORDINATED WITH UTILITY OWNER AND ALL WORKER SAFETY REQUIREMENTS STRICTLY ENFORCED. LAND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- CONTRACTOR SHALL PROVIDE FOR THE CONTINUOUS OPERATION OF EXISTING FACILITIES WITHOUT INTERRUPTION DURING CONSTRUCTION UNLESS SPECIFICALLY AUTHORIZED OTHERWISE BY THE RESPECTIVE AUTHORITY.
- THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES IN THE PROJECT PLANS. TRENCH BACKFILL FOR EXISTING UTILITIES SHALL BE EXAMINED CRITICALLY. ANY TRENCH WHICH, IN THE OPINION OF THE SOLS ENGINEER ARE FOUND TO BE SOFT, UNSTABLE MATERIAL SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL. SAND BACKFILL SHALL BE USED UNDER PAVEMENT OR WITHIN 3 FEET OF THE 45° INFLUENCE LINE OF PAVEMENT OR STRUCTURES.

EROSION CONTROL STANDARDS

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL AGENCY UNDER PART 91 OF ACT 451 OF 1994, AS AMENDED.
- UNDER "MICHIGAN'S PERMIT-BY-RULE FOR CONSTRUCTION ACTIVITIES", PROMULGATED UNDER ACT 245, PUBLIC ACTS OF 1929 AS AMENDED, AN NPDES STORM WATER DISCHARGE COVERAGE PERMIT IS REQUIRED FOR ANY CONSTRUCTION ACTIVITY THAT DISTURBS 1 ACRE OR MORE OF LAND. A CERTIFIED STORM WATER OPERATOR IS REQUIRED FOR THE SUPERVISION AND INSPECTION OF THE SOIL EROSION CONTROL MEASURES AT THE CONSTRUCTION SITE IN ACCORDANCE WITH THE PROVISIONS OF THESE RULES.
- DAILY INSPECTIONS SHALL BE MADE BY CONTRACTOR WHILE WORKING TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY. ALL SOIL EROSION CONTROL PROVISIONS SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGE AREAS HAVE BEEN COMPLETED.

EROSION CONTROL STANDARDS, CONTINUED

- STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
- SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- DUST SHALL BE CONTROLLED BY WATERING OR BY OTHER APPROVED MEANS THROUGHOUT ALL CONSTRUCTION OPERATIONS.
- ALL WATER FROM DEWATERING OR SURFACE DRAINAGE FROM THE CONSTRUCTION SITE SHALL BE CONTROLLED TO ELIMINATE SEDIMENT CONTAMINATION OF OFF-SITE WATERWAYS OR STORM SEWERS. SUCH MEASURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY DEWATERING OR LAND DISTURBANCE.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 5 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.

STORM SEWER SPECIFICATIONS

- THESE SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS AND THE SPECIFICATIONS AND DETAIL SHEETS OF THE GOVERNING AGENCIES. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS SHALL BE FOLLOWED.
- CONTRACTOR SHALL FURNISH CERTIFIED EVIDENCE THAT ALL MATERIAL TESTS AND INSPECTIONS HAVE BEEN PERFORMED AND THAT THE PRODUCT HAS BEEN MANUFACTURED IN COMPLIANCE WITH THE APPLICABLE SPECIFICATIONS.
- PROPER IMPLEMENTS, TOOLS AND FACILITIES SHALL BE PROVIDED AND USED FOR UNLOADING AND DISTRIBUTING MATERIALS ALONG THE LINE OF WORK, ANY PIPE OR FITTING DAMAGED IN TRANSPORTATION OR HANDLING SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. HE SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS, EQUIPMENT AND WORK.
- PIPE BEDDING, UNLESS OTHERWISE INDICATED, SHALL BE CL. II SAND, CRUSHED STONE OR ROUNDED GRAVEL. BEDDING MATERIAL SHALL HAVE 95% PASSING A 3/4" SIEVE AND AT LEAST 50% RETAINED ON A NO. 4 SIEVE.
- POROUS FILTER MATERIAL FOR PERFORATED SUBSURFACE DRAINS SHALL BE CRUSHED ROCK OR GRAVEL GRADED BETWEEN 1-1/2" AND 3/4" OR PER PLANS AND DETAILS.
- BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR SAND WITH A PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN 10% BY VOLUME PASSING THROUGH A 200-MESH SIEVE.
- STORM SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
 - POLYVINYL CHLORIDE (PVC) AND ACRYLONITRILE BUTADIENE STYRENE (ABS) FOR PIPE UP TO AND INCLUDING 10" IN DIAMETER, SHALL CONFORM TO ASTM D3034, SDR 23.5 FOR PVC PIPE AND ASTM D2751 FOR ABS PIPE WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3212 OR CHEMICALLY WELDED PIPE JOINTS CONFORMING TO ASTM F545.
 - REINFORCED CONCRETE PIPE, FOR PIPE 12" IN DIAMETER AND UP, SHALL CONFORM TO ASTM C1376, CLASS IV MINIMUM COMPRESSIVE STRENGTH 5000 PSI. RUBBER GASKET CONFORMING TO ASTM C-443.
 - PERFORATED SUBSURFACE DRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D-2729 OR PERFORATED, CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO ASTM M-44. UNLESS OTHERWISE NOTED, POLYETHYLENE PIPE SHALL BE PREFABRICATED COUPLING WITH SOLVENT WELD.
- MANHOLES, CATCH BASINS, AND INLETS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:
 - REINFORCED PRE-CAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478-64T.
 - BRICK SHALL BE SOUND, HARD-BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH AASHTO M 91, GRADE MS.
 - CONCRETE MASONRY SHALL BE SOLID PRE-CAST SEGMENTAL UNITS CONFORMING TO ASTM C-139.
- IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND WATCHED-MARKED TO PREVENT ROOKING. SYSTEM IDENTIFYING LETTERS 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY ARE PLAINLY VISIBLE. SEE MUNICIPALITY STANDARDS FOR ACTUAL WORKING.
- CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC., NEENAH FOUNDRY COMPANY OR EQUAL.
- CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING:
 - PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR IA.
 - FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33.
 - AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144.
 - HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S.
 - WATER SHALL MEET THE REQUIREMENTS OF MDOT SPEC SECTION 911.
 - REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE-GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40.
- CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM WITH 3" MAXIMUM SLUMP.
 - CONCRETE FILL BELOW GRADE MAY BE 2500 PSI AT 28 DAYS.
 - CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR-ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADTIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% ± 1% ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.
 - READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.
- MORTAR SHALL BE SPECIFIED HEREINAFTER. USE METHOD OF MIXING MORTAR AT JOB SO THAT SPECIFIED PROPORTIONS OF MORTAR MATERIALS CAN BE CONTROLLED AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN REQUIRED FOR IMMEDIATE USE, WITH AMOUNT OF WATER CONSISTENT WITH SATISFACTORY WORKABILITY. RE-TAMPING OF MORTAR IS NOT PERMITTED.
 - MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE M. ASBESTOS-CONTAINING STRENGTH 2500 PSI MINIMUM AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME.
 - MORTAR FOR PLASTERING SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2-1/2 PARTS SAND.
 - MORTAR FOR GROUTING OF RIP-RAP SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 3-1/2 PARTS SAND.
- PERFORM ALL EXCAVATING AND TRENCHING TO DIMENSIONS AND ELEVATIONS INDICATED ON DRAWINGS.

STORM SEWER SPECIFICATIONS, CONTINUED

- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE TRENCH.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED TO THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- WHERE UNSTABLE SOIL IS ENCOUNTERED, CONTRACTOR SHALL NOT PLACE PIPE UNTIL A SOLID BED HAS BEEN PROVIDED.
- EXCAVATION FOR DRAINAGE STRUCTURES SHALL EXTEND A SUFFICIENT DISTANCE FROM THE WALLS AND FOOTINGS TO ALLOW FOR FORMS, CONSTRUCTION OF WALLS, CONNECTIONS AND FOR INSPECTION.
- PROVIDE REQUIRED TIMBER SHEETING, BRACING AND SHORING TO PROTECT SIDES OF EXCAVATION. DO NOT BRACE SHEETING AGAINST PIPE. PROVIDE SUITABLE LADDERS FOR SAFE ENTRY TO AND EXIT FROM EXCAVATION.
- DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE PILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF TRENCHES TO AVOID OVERLOADING, AND TO PREVENT SLIDES OR CAVE-INS.
- WHEN WET EXCAVATION IS ENCOUNTERED, THE TRENCH SHALL BE DE-WATERED UNTIL THE PIPE HAS BEEN LAID AND BACKFILLED TO A POINT AT LEAST 1 FOOT ABOVE TOP OF PIPE.
- MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY UNITS OR PRE-CAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS.
- THE WALL THICKNESS OF MANHOLES AND CATCH BASINS CONSTRUCTED OF VARIOUS MATERIALS AND SET AT VARIOUS DEPTHS SHALL MEET THE MINIMUMS. ADHERE TO REQUIREMENTS OF THE GOVERNING AGENCY IF THEY EXCEED THESE THICKNESSES:

DEPTH	BRICK	CONCRETE BLOCK	PRE-CAST CONCRETE
0' - 10'	8"	6"	6"
10' - 16"	12"	8"	8"
16' - 25'	16"	12"	12"
- WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER, TO CENTER, AROUND THE PERIPHERY OF OPENINGS TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
- MANHOLE STEPS SHALL BE BUILT INTO AND THOROUGHLY ANCHORED TO WALLS. STEPS SHALL BE FACTORY INSTALLED IN PRE-CAST STRUCTURES.
- ALL PIPING ENTERING OR LEAVING DRAINAGE STRUCTURES SHALL BE ADEQUATELY SUPPORTED BY POURED-IN-PLACE CONCRETE FILL FROM PIPE CENTER TO UNDISTURBED GROUND.
- SET FRAMES IN FULL BED OF STIFF MORTAR OR BITUMINOUS MASTIC JOINTING COMPOUND AT FINAL ELEVATION.
- ALL TIMBER SHEETING BELOW A PLANE 12" ABOVE TOP OF PIPE SHALL REMAIN IN PLACE IN ORDER NOT TO DISTURB PIPE GRADING. BEFORE BACKFILLING, REMOVE ALL OTHER SHEETING, BRACING AND SHORING.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557 (MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AND SHALL BE DEPOSITED IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D1557. (MODIFIED PROCTOR) SUITABLE MATERIALS FOUND ON SITE MAY BE USED.
- BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS.
- AFTER INSTALLATION OF PIPES AND DRAINAGE STRUCTURES, CLEAN THEM, AND ADJUST TOPS TO FINISH GRADE. PIPE SHALL BE STRAIGHT BETWEEN STRUCTURES WITH THE FULL INSIDE DIAMETER VISIBLE WHEN SIGHTING BETWEEN STRUCTURES.
- ENDS OF HEADWALL AND END SECTIONS FOR PIPES LARGER THAN 6 INCHES, SHALL BE FITTED WITH A #4 ROUNDED MINIMUM WELDED STEEL ROD GRATING. RODS SHALL BE SPACED 6" O.C. MAXIMUM. WELD ROD AT ALL INTERSECTIONS. GRATE SHALL BE REMOVABLE FOR ACCESS AND CLEANING.
- RIP-RAP SHALL BE LAID FROM THE BOTTOM UPWARD; STONES SHALL BE LAID BY HAND WITH 8" MINIMUM DIMENSION PERPENDICULAR TO GRADE WITH WELL-BROKEN JOINTS, COMPACTED TO LINE. IT GOES, TRUE TO LINE. ALL JOINTS SHALL BE FILLED WITH CEMENT MORTAR. SURFACE STONE TO BE EXPOSED. CLEAN JOINTS WITH WIRE BRUSH.
- THE CONTRACTOR SHALL DO ALL REQUIRED EXCAVATION AND TRENCHING WORK AND THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPLETION OF THE WORK HEREIN REGARDLESS OF THE NATURE OF MATERIALS ENCOUNTERED DURING THE COURSE OF THE WORK. THE OWNER WILL NOT BE LIABLE FOR ANY COSTS WHATSOEVER ASSOCIATED WITH, BUT NOT LIMITED TO, THE PRESENCE OF ROCK, PEAT, SUBTERRANEAN STREAMS, EXCESSIVE WATER OR OTHER DIFFICULT OR UNANTICIPATED SUB-SURFACE PHENOMENA.
- ALL CONNECTIONS TO EXISTING SEWERS SHALL BE PER MUNICIPAL REQUIREMENTS, AND ALL COSTS INCLUDING AND/OR VIDEO OF SEWERS SHALL BE INCIDENTAL TO THE JOB.

WATER MAIN SPECIFICATIONS

- WATER MAIN SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS, THE WATER MAIN SPECIFICATIONS, AND THE DETAIL SHEETS OF THE GOVERNING AGENCIES. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS SHALL BE FOLLOWED.
- DUCTILE IRON PIPE, 16" DIAMETER AND SMALLER, SHALL CONFORM TO ANSI/AWWA SPECIFICATION C151/A21.51, CLASS 54. DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA SPECIFICATION C110/A21.10 FOR STANDARD FITTINGS OR TO ANSI/AWWA SPECIFICATION C153/A21.53 FOR COMPACT FITTINGS. DUCTILE IRON PIPE AND FITTINGS SHALL HAVE A DOUBLE THICKNESS CEMENT MORTAR LINING CONFORMING TO ANSI SPECIFICATION A21.4.
- JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE U.S. PIPE AND FOUNDRY COMPANY "TYTON JOINT" OR APPROVED EQUAL.
- POLYVINYL CHLORIDE (PVC) WATER MAIN SHALL CONFORM TO AWWA C900 FOR PIPE SIZES 4 TO 12 INCHES, AND SHALL CONFORM TO AWWA C905 FOR PIPE SIZES 14 TO 24 INCHES. ALL PIPES SHALL HAVE A MINIMUM DIMENSION RATIO OF (DR) OF 18 CORRESPONDING TO A WORKING PRESSURE OF 235 PSI FOR PVC TYPE 1120 PIPE.
 - RESTRAINTS FOR PVC PIPE SHALL BE EBA IRON SERIES 200PV, UNFLANGE SERIES 1350C, 1390C, 1500 OR APPROVED EQUAL.
 - SERVICES SHALL BE INSTALLED WITH ALL STAINLESS STEEL SADDLES SUCH AS SMITH-BEAR 372, FORD F5303, CAMADE C522, OR APPROVED EQUAL.
 - PVC PIPE USED FOR POTABLE WATER SHALL BE BLUE IN COLOR, MANUFACTURED WITHIN THE LAST 12 MONTHS AS DETERMINED FROM THE DATE STAMP ON THE PIPE, AND FREE FROM DEFECTS.
 - ALL PIPES SHALL BE MARKED WITH THE MANUFACTURER'S NAME, DATE, NOMINAL SIZE, TYPE OF PLASTIC AND PRESSURE RATING. PIPE O.D. SHALL BE EQUIVALENT TO DUCTILE IRON PIPE OF THE SAME NOMINAL SIZE.
 - FITTING SHALL CONFORM TO AWWA C907 AND C908, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF FIVE FEET, OR AS SPECIFIED BY THE LOCAL GOVERNING MUNICIPALITY, BELOW FINISH GRADE UNLESS OTHERWISE NOTED IN THE PLANS. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL 11-1/4 BENDS PROPERLY ANCHORED.
- SEE THE WATER MAIN STANDARD DETAIL SHEETS OF THE GOVERNING AGENCY FOR THE SPECIFIC TYPE OF HYDRANTS AND VALVES TO BE USED FOR THIS PROJECT. THESE DETAIL SHEETS ARE INCLUDED AS PART OF THE PLANS.
- PRIOR TO HYDROSTATIC TESTING AND BEFORE PLACING THE WATER MAIN IN SERVICE, ALL NEW WATER PIPELINES SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C651. VERIFICATION OF DISINFECTION SHALL BE PERFORMED BY A CERTIFIED TESTING LABORATORY.

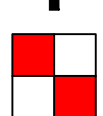
WATER MAIN SPECIFICATIONS, CONTINUED

- BEFORE ANY WATER MAIN WILL BE ACCEPTED BY THE GOVERNING AGENCY, IT MUST PASS A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH AWWA C605 AND COMPLYING WITH THE CURRENT SPECIFICATIONS AND PROCEDURES OF THE AGENCY.
- PRIOR TO BEING PLACED INTO SERVICE, WATER MAIN SHALL BE FLUSHED OF CHLORINATED WATER AND FILLED WITH WATER FROM THE DISTRIBUTION SYSTEM. CHLORINATED WATER SHALL BE PUMPED INTO THE SANITARY SEWER. NO CHLORINATED WATER SHALL BE ALLOWED IN THE STORM SEWER OR DISCHARGED TO SURFACE WATERS.
- BEFORE ANY WATER MAIN SYSTEM WILL BE ACCEPTED BY THE GOVERNING AGENCY, THE FIRE HYDRANTS MUST BE PAINTED AS INDICATED ON THE WATER MAIN STANDARD DETAIL SHEETS.
- TWO INCH (2") DIAMETER CORPORATION STOPS SHALL BE PROVIDED IN BOTH THE EXISTING WATER MAIN AND THE NEW WATER MAIN AT ALL NEW CONNECTIONS.
- ALL TEES, BENDS CONNECTIONS, ETC. ARE INCIDENTAL TO THE JOB.
- PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATERMANS UNTIL TESTING IS SATISFACTORILY COMPLETED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS EQUIPMENT AND WORK.
- PIPE BEDDING, UNLESS OTHERWISE INDICATED, SHALL BE CRUSHED STONE OR ROUNDED GRAVEL BEDDING MATERIAL SHALL HAVE 95% PASSING A 3/4" SIEVE AND 50% RETAINED ON A NO. 4 SIEVE; LOAD FACTOR SHALL BE 1.9.
- BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN TEN PERCENT (10%) BY VOLUME PASSING THROUGH A 200 MESH SIEVE.
- GATE WELLS SHALL BE REINFORCED PRE-CAST CONCRETE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478.
- THRUST BLOCKS, IF REQUIRED BY THE MUNICIPALITY, SHALL BE MADE OF 3000 PSI CONCRETE WET MIX
- THE MAXIMUM WIDTH OF TRENCH TO TOP OF PIPE SHALL BE AS FOLLOWS:

PIPE DIAMETER	TRENCH WIDTH
THROUGH 12"	36"
15" THROUGH 36"	O.D. PLUS 24"
42" THROUGH 60"	O.D. PLUS 30"
66" AND LARGER	O.D. PLUS 36"
- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE TRENCH.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED AT THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- PROVIDE REQUIRED TIMBER SHEETING, BRACING AND SHORING TO PROTECT SIDES OF EXCAVATION. DO NOT BRACE SHEETING AGAINST PIPE. PROVIDE SUITABLE LADDERS FOR SAFE ENTRY TO AND EXIT FROM EXCAVATION.
- WHERE UNSTABLE SOIL IS ENCOUNTERED, CONTRACTOR SHALL NOT PLACE PIPE UNTIL A SOLID BED HAS BEEN PROVIDED.
- EXCAVATION FOR STRUCTURES SHALL EXTEND A SUFFICIENT DISTANCE FROM THE WALLS AND FOOTINGS TO ALLOW FOR FORMS, CONSTRUCTION OF WALLS, CONNECTIONS AND FOR INSPECTION.
- GATE WELLS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY UNITS OR PRE-CAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
 - COMPLETELY FILL JOINTS ON PRE-CAST CONCRETE SECTIONS WITH BITUMINOUS MASTIC JOINTING COMPOUND OR JOINTS SHALL BE MADE WITH CEMENT MORTAR WITH INSIDE POINTING AND OUTSIDE RUBBER WIP.
 - BRICK SHALL BE WET WHEN LAID. LAY BRICK OR CONCRETE MASONRY TIGHT TOGETHER AND CLEAR AWAY SO AS TO FORM FULL BEDS WITH END JOINTS IN ONE OPERATION, WITH JOINTS NOT MORE THAN 3/8" WIDE EXCEPT WHEN BRICKS OR CONCRETE MASONRY UNITS ARE LAID RADIALLY, IN WHICH CASE THE NARROWEST PART OF JOINT SHALL NOT EXCEED 1/4". LAY TRUE LINE AND, WHENEVER PRACTICAL, JOINTS SHALL BE CAREFULLY STRUCK AND POINTED ON INSIDE.
 - PROTECT FRESH BRICK WORK FROM FREEZING, FROM DRYING EFFECTS OF SUN AND WIND, AND FOR SUCH TIME AS DIRECTED BY THE GEOTECHNICAL ENGINEER, IN FREEZING WEATHER, HEAT SUFFICIENTLY TO REMOVE ICE AND FROST FROM BRICK WORK.
- GATE WELL STEPS SHALL BE BUILT INTO AND THOROUGHLY ANCHORED TO WALLS.
- ALL PIPING ENTERING OR LEAVING GATE WELLS SHALL BE ADEQUATELY SUPPORTED BY POURED-IN-PLACE CONCRETE FILL FROM PIPE CENTER TO UNDISTURBED GROUND.
- THE OUTSIDE SURFACES OF BRICK OR CONCRETE MASONRY PORTION OF GATE WELLS SHALL BE PLASTERED AND TROWELED SMOOTH WITH 1/2" LAYERS OF CEMENT MORTAR.
- SET FRAMES IN FULL BED OF STIFF MORTAR OR BITUMINOUS MASTIC JOINTING COMPOUND AT FINAL ELEVATION.
- IN UNSTABLE SOIL CONDITIONS, THRUST BLOCKS SHALL BE SUPPORTED BY PILING DRIVEN TO SOLID FOUNDATIONS OR BY REMOVAL OF THE UNSTABLE SOILS AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS. THE COST OF PILING OR BALLAST AT THRUST BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- PLACE ALL CONCRETE ANCHORAGES AND ENCASEMENTS, AS CALLED FOR ON THE DRAWINGS. THE COST OF RESTRAINED JOINTS OR ANCHORAGE AND ENCASEMENTS SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557(MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AND SHALL BE DEPOSITED IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). SUITABLE MATERIALS FOUND ON SITE MAY BE USED IF APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE. WHERE SERVICE OR UTILITY LINES CROSS PAVEMENT OR SIDEWALK, BEDDING SHALL BE CARRIED TO 3 FEET BEHIND THE CURB LINE OR 3 FEET BEHIND THE SIDE OF SIDEWALK FARTHEST AWAY FROM THE PROPOSED PAVEMENT.
- BEFORE BACKFILLING AROUND MANHOLES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL AND HAND TAMPERS.
- SANITARY SEWER MANHOLES MUST BE WATER-TIGHT AND SHALL BE PRECAST SECTIONS WITH MODIFIED GROOVED TONGUE JOINTS WITH RUBBER GASKETS, CONFORMING TO ASTM DESIGNATION C478. CAST IRON STEPS SHALL BE CAST INTO THE MANHOLE SECTIONS AT 16" O.C. DURING MANUFACTURE AND AT 45° FROM THE CENTERLINE OF THE SEWER. MANHOLE STEPS SHALL BE NEENAH R-1980-E, EAST JORDAN IRON WORKS, 8500 OR APPROVED EQUAL.
- WHEN EXISTING REINFORCED CONCRETE MANHOLES OR SEWER PIPES ARE TO BE TAPPED, A HOLE OF THE APPROPRIATE DIAMETER, SHALL BE CORE DRILLED, SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. A RESILIENT CONNECTOR CONFORMING TO ASTM DESIGNATION C-923, RESILIENT CONNECTORS SHALL BE "KOR-N-SEAL" AS MANUFACTURED BY "THE CORE AND SEAL CO." OR APPROVED EQUAL.
- ALL SEWERS SHALL BE SUBJECTED TO INFILTRATION, AIR OR EXFILTRATION TESTS OR A COMBINATION THEREOF IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: THE COST OF THE TESTS SHALL BE THE SEWER AUTHORITY'S STANDARD, PRIOR TO ACCEPTANCE OF THE SYSTEM AND PRIOR TO REMOVAL OF THE BULKHEADS.
 - ALL SEWERS OVER 24" DIAMETER SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24" DIAMETER OR SMALLER, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS OVER SEVEN (7) FEET, SHALL BE SUBJECTED TO AN INFILTRATION TEST.
 - ALL SEWERS OF 24" DIAMETER OF LESS, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS SEVEN (7) FEET OR LESS, SHALL BE SUBJECT TO AIR TESTS OR EXFILTRATION TESTS.
- NO SANITARY SEWER INSTALLATION OR PORTION THEREOF SHALL HAVE INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOUR PERIOD.

SANITARY SEWER SPECIFICATIONS

- THESE SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS AND THE SANITARY SEWER SPECIFICATIONS AND DETAIL SHEETS OF THE GOVERNING AGENCY. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS WILL BE FOLLOWED.
- THE GOVERNING AGENCY WILL INSPECT THE INSTALLATION OF ALL SANITARY SEWER PIPING.
- PROPER IMPLEMENTS, TOOLS AND FACILITIES SHALL BE PROVIDED AND USED FOR UNLOADING AND DISTRIBUTING MATERIALS ALONG THE LINE OF WORK. ANY PIPE OR FITTING DAMAGED IN TRANSPORTATION OR HANDLING SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS, EQUIPMENT AND WORK.
- THE CONTRACTOR SHALL DO ALL REQUIRED EXCAVATION AND TRENCHING WORK AND THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPLETION OF THE WORKS HEREIN REGARDLESS OF THE NATURE OF MATERIALS ENCOUNTERED DURING THE COURSE OF THE WORK. THE OWNER WILL NOT BE LIABLE FOR ANY COSTS WHATSOEVER ASSOCIATED WITH, BUT NOT LIMITED TO, THE PRESENCE OF ROCK, PEAT, SUBTERRANEAN STREAMS, EXCESSIVE WATER OR OTHER DIFFICULT OR UNANTICIPATED SUB-SURFACE PHENOMENA.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE THE SANITARY SEWER INSTALLATION WITH THE GRADING, EXCAVATION AND OTHER SITE UTILITY SUBCONTRACTORS AND THE OWNERS REPRESENTATIVE SO AS TO PROVIDE FOR A SMOOTH AND ORDERLY PROGRESSION OF THE WORK.
- SANITARY SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING AGENCY.
- REINFORCED PRE-CAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478 OR AASHTO M-199.
- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE WORK.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED AT THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- PROVIDE REQUIRED TIMBER SHEETING, BRACING AND SHORING TO PROTECT SIDES OF EXCAVATION. DO NOT BRACE SHEETING AGAINST PIPE. PROVIDE STAGING AND SUITABLE LADDERS WHERE REQUIRED.
- DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE PILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF TRENCHES TO AVOID OVERLOADING, AND TO PREVENT CAVE-INS.
- WHEN WET EXCAVATION IS ENCOUNTERED, THE TRENCH SHALL BE DE-WATERED UNTIL THE PIPE HAS BEEN LAID AND BACKFILLED TO A POINT AT LEAST 1 FOOT ABOVE TOP OF PIPE.
- SANITARY SEWER CROSSINGS SHALL BE MADE WITH 18" OF VERTICAL CLEARANCE FROM ANOTHER UTILITY AND SHALL BE MADE WITHOUT PLACING POINT LOADS ON EITHER PIPE. CONSTRUCT SADDLES, OR PLACE PROTECTIVE CONCRETE CAP TO PREVENT DAMAGE.
- ALL CONNECTION BRANCHES IN THE SEWER PIPE SHALL BE SECURELY AND COMPLETELY TIGHT TO THE MAIN LINE. THE PIPE DURING THE COURSE OF MANUFACTURE. ALL PIPE CONTAINING SUCH CONNECTION BRANCHES SHALL BE INSTALLED WITH THE MAIN SEWER, THE PROPOSED LOCATION OF THE BRANCH SHALL BE PER PLAN OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- SERVICE LEADS SHALL TERMINATE (WITH AN APPROVED STOPPER) PER PLANS OR AS DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE.
- EACH RISER AND/OR SERVICE LEAD SHALL BE MARKED WITH A 2 INCH X 2 INCH X 8 FOOT LONG HARDWOOD MARKER, PLACED VERTICALLY AT THE END OF THE PIPE.
- DOWNSPOUTS, WEEP TILE, FOOTING DRAINS, OR ANY CONDUIT, THAT CARRIES STORM OR GROUND WATER SHALL NOT BE ALLOWED TO DISCHARGE INTO A SANITARY SEWER.
- ANY CONNECTION TO AN EXISTING SANITARY SEWER MANHOLE SHALL BE MADE IN STRICT CONFORMANCE WITH THE PLANS AND SPECIFICATIONS, WITH ALL WORK BEING DONE IN A WORKMANLIKE MANNER. THIS WORK SHALL INCLUDE THE CONSTRUCTION OF A PROPER EXISTING MANHOLE, IN WHICH THE CONNECTION IS TO BE MADE, TO DIRECT THE FLOW OF INCOMING FLUIDS TO THE EXISTING OUTLET IN A MANNER WHICH WILL TEND TO CREATE THE FARTHEST ANGLE OF THE EXISTING OUTLET. THE STRUCTURE WHICH WOULD INTERFERE WITH SUCH CONSTRUCTION SHALL BE REMOVED. THE COST OF ALL CONNECTIONS, INCLUDING ALL TESTING AND/OR TELEVISION REQUIRED BY THE LOCAL MUNICIPALITY, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE MAIN SEWER UNLESS OTHERWISE PROVIDED IN THE PROPOSAL.
- WHEN CONNECTIONS ARE MADE WITH SEWERS OR DRAINS CARRYING FLUIDS, SPECIAL CARE MUST BE TAKEN THAT NO PART OF THE WORK IS BUILT UNDER WATER. A FLUME OR DAM MUST BE INSTALLED AND PUMPING MAINTAINED, IF NECESSARY, AND THE WORK MUST BE KEPT DRY UNTIL COMPLETED AND ANY CONCRETE OR MORTAR HAS SET.
- ALL TIMBER SHEETING BELOW A PLANE 12" ABOVE TOP OF PIPE SHALL REMAIN IN PLACE IN ORDER NOT TO DISTURB PIPE GRADING. BEFORE BACKFILLING, REMOVE ALL OTHER SHEETING, BRACING AND SHORING.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557 (MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AND SHALL BE DEPOSITED IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). SUITABLE MATERIALS FOUND ON SITE MAY BE USED IF APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE. WHERE SERVICE OR UTILITY LINES CROSS PAVEMENT OR SIDEWALK, BEDDING SHALL BE CARRIED TO 3 FEET BEHIND THE CURB LINE OR 3 FEET BEHIND THE SIDE OF SIDEWALK FARTHEST AWAY FROM THE PROPOSED PAVEMENT.
- BEFORE BACKFILLING AROUND MANHOLES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL AND HAND TAMPERS.
- SANITARY SEWER MANHOLES MUST BE WATER-TIGHT AND SHALL BE PRECAST SECTIONS WITH MODIFIED GROOVED TONGUE JOINTS WITH RUBBER GASKETS, CONFORMING TO ASTM DESIGNATION C478. CAST IRON STEPS SHALL BE CAST INTO THE MANHOLE SECTIONS AT 16" O.C. DURING MANUFACTURE AND AT 45° FROM THE CENTERLINE OF THE SEWER. MANHOLE STEPS SHALL BE NEENAH R-1980-E, EAST JORDAN IRON WORKS, 8500 OR APPROVED EQUAL.
- WHEN EXISTING REINFORCED CONCRETE MANHOLES OR SEWER PIPES ARE TO BE TAPPED, A HOLE OF THE APPROPRIATE DIAMETER, SHALL BE CORE DRILLED, SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. A RESILIENT CONNECTOR CONFORMING TO ASTM DESIGNATION C-923, RESILIENT CONNECTORS SHALL BE "KOR-N-SEAL" AS MANUFACTURED BY "THE CORE AND SEAL CO." OR APPROVED EQUAL.
- ALL SEWERS SHALL BE SUBJECTED TO INFILTRATION, AIR OR EXFILTRATION TESTS OR A COMB



GRADING AND EARTHWORK SPECIFICATIONS

- ALTHOUGH A SUB-SURFACE INVESTIGATION MAY HAVE BEEN MADE BY THE OWNER, THE BIDDER AND ANY SUB-CONTRACTORS SHALL MAKE A PERSONAL INVESTIGATION OF SITE AND EXISTING SURFACE AND SUB-SURFACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO ACQUAINT HIMSELF WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO DETERMINE THE SUB-SURFACE SOIL CONDITIONS AND GROUND WATER CONDITIONS TO HIS OWN SATISFACTION PRIOR TO BIDDING. NO MODIFICATIONS TO THE UNIT PRICES BID FOR ANY ITEM WILL BE MADE DUE TO VARIABLE SUB-SURFACE CONDITIONS. DETERMINING, IF DETERMINED NECESSARY BY THE CONTRACTOR, BY WELL POINTING OR DEEP WELLS WILL BE INCIDENTAL TO THE INSTALLATION COST OF THE ITEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING DETERMINED TO HIS SATISFACTION PRIOR TO THE SUBMISSION OF HIS BID THE CONFIRMATION OF THE GROUND, THE CHARACTER AND QUALITY OF THE SUBSTRATA, THE TYPES AND QUANTITIES OF MATERIALS TO BE ENCOUNTERED, THE NATURE OF THE GROUNDWATER CONDITIONS, THE PROSECUTION OF THE WORK, THE GENERAL AND LOCAL CONDITIONS INCLUDING CURRENT CLIMATIC CHANGES, THE TIME OF YEAR IN WHICH CONSTRUCTION WILL TAKE PLACE AND ALL OTHER MATTERS WHICH CAN IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT.
- PRIOR TO COMMENCING THE EXCAVATION THE CONTRACTOR SHALL SUBMIT A PLAN OF HIS PROPOSED OPERATIONS AND TIME SCHEDULE TO THE OWNER & OWNERS REPRESENTATIVE FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL CONSIDER, AND HIS PLAN FOR EXCAVATION SHALL REFLECT, THE EQUIPMENT AND METHODS TO BE EMPLOYED IN THE EXCAVATION AND WHAT METHODS WILL BE USED WHEN WET CONDITIONS ARE ENCOUNTERED REQUIRING GROUNDWATER CONTROL OR OTHER MOISTURE CONDITIONING. THE CONTRACTOR SHALL SUBMIT AN OUTLINE OF HIS EARTHWORK METHODS WHICH SHALL TAKE INTO ACCOUNT THE OVERALL CONSTRUCTION SCHEDULE. THE PRICES ESTABLISHED IN THE PROPOSAL FOR THE WORK TO BE DONE SHALL REFLECT ALL COSTS PERTAINING TO THE WORK. NO CLAIMS FOR EXTRAS BASED ON SUBSTRATA OR GROUNDWATER TABLE CONDITIONS OR MOISTURE CONDITIONING WILL BE ALLOWED.
- THE CONTRACTOR SHALL KEEP INFORMED AND THE OWNER'S REPRESENTATIVE INFORMED AT ALL TIMES AS TO A "FILL SURPLUS OR SHORTAGE" SITUATION. SHORTAGE OR SURPLUS OF SUITABLE MATERIAL AT THE CONCLUSION OF THE GRADING AND EARTHWORK OPERATION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HE WILL BE REQUIRED TO SUPPLY THE DEFICIENCY OR DISPOSE OF THE SURPLUS WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND OTHER DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO CUT OR FILL OPERATIONS. SUCH MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF IN A LEGAL MANNER OFF SITE.
- MATERIALS FOR FILL OR BACKFILL REQUIRED TO GRADE THE SITE AND ACHIEVE DESIGN ELEVATIONS SHALL BE EITHER ON OR OFF-SITE SOILS WHICH ARE FREE OF ORGANIC MATTER AND DEBRIS. NO TOPSOIL SHALL BE USED AS ENGINEERED FILL.
- NO FILL MAY BE PLACED UNTIL THE EXPOSED SURFACES HAVE BEEN APPROVED BY THE GEOTECHNICAL ENGINEER. ALL FILL MATERIALS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- IF ANY UNKNOWN SUBSURFACE STRUCTURES ARE ENCOUNTERED DURING CONSTRUCTION, THEY SHALL BE IMMEDIATELY REPORTED TO THE REPRESENTATIVE OF THE OWNER'S REPRESENTATIVE AND DESIGN ENGINEER PRIOR TO PROCEEDING.
- ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED AT THE OPTIMUM MOISTURE CONTENT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- NO FROZEN MATERIAL SHALL BE USED AS FILL NOR WILL ANY FILL BE PLACED ON A FROZEN BASE.
- NO ROCK OR SIMILAR MATERIAL GREATER THAN 6" DIAMETER SHALL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE GEOTECHNICAL ENGINEER IN ADVANCE AND APPROVED BY THE OWNER AND OWNER'S REPRESENTATIVE.
- COMPACT FILL MATERIAL TO AT LEAST THE FOLLOWING PERCENTAGE OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). NO DEVIATION FROM THESE COMPACTATION DENSITIES WILL BE ALLOWED UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE OWNER AND OWNER'S REPRESENTATIVE.

FILL AREAS	% OF MAXIMUM DRY DENSITY
FILL UNDER BUILDING (EXTENDING 5' BEYOND FOOTINGS AT A SLOPE OF 1 ON 1)	98%
FILL UNDER PAVEMENT OR SIDEWALKS	95%
FILL PLACED UNDER OR BEHIND RETAINING WALLS	95%
ALL OTHER FILL	90%
- ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS, THAT WILL NOT EXCEED THE DEPTH OF 12 INCHES. THE MAXIMUM DENSITY REQUIRED FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED IN THE LIFT.
- ALL AREAS WHERE FILL HAS BEEN PLACED OR THE EXISTING SOILS HAVE BEEN DISTURBED SHALL BE SUBJECT TO COMPACTATION TESTING BY THE GEOTECHNICAL ENGINEER AND SHALL BE TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, OWNER AND OWNER'S REPRESENTATIVE.
- FILL MATERIAL UNDER PAVEMENTS OR STRUCTURES SHALL BE FREE OF ORGANIC OR DELETERIOUS MATERIALS. IT SHALL BE SUITABLE FOR SUPPORTING PAVEMENTS AND STRUCTURES WITHOUT ADVERSE SHRINKING OR SWELLING.
- FILL MATERIAL IN BERMS AND LANDSCAPE AREAS SHALL BE SUITABLE TO SUPPORT GROWTH OF THE LANDSCAPING MATERIALS (TYPICAL FOR THE LOCAL CLIMATE) AND AS PROPOSED BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF, IN A LEGAL MANNER, ANY TREES, BRUSH OR DEBRIS THAT ARE WITHIN THE DESIGNATED CUTTING AND FILLING AREAS TO BRING THE SITE TO PROPOSED GRADES.
- THE CONTRACTOR SHALL STOCKPILE EXCAVATED MATERIAL ONLY IN DESIGNATED AREAS AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- DURING THE PERFORMANCE OF SITE GRADING OPERATIONS, THE SUBGRADE SHALL BE EXAMINED CRITICALLY, AND ANY AREAS DISCOVERED WHICH, IN THE OPINION OF THE OWNER'S REPRESENTATIVE OR GEOTECHNICAL ENGINEER, ARE SOFT AND UNSTABLE, SHALL BE EXCAVATED TO SUCH DEPTHS AS MAY BE NECESSARY TO INSURE SATISFACTORY SUPPORTING PROPERTIES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THESE AREAS OF EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AND SHALL BE BROUGHT BACK TO THE ELEVATION OF THE SURROUNDING AREAS WITH APPROVED FILL MATERIAL AND IN ACCORDANCE WITH THE EARTH FILL CONSTRUCTION PROCEDURE.
- NEWLY GRADED AREAS SHALL BE PROTECTED FROM THE ACTION OF THE ELEMENTS. ANY SETTLEMENT, DISPLACEMENT, SINKING OR SLIDING THAT MAY OCCUR PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION SHALL BE REPAIRED, AND GRADES REESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES.
- THE FINISHED SURFACE SHALL BE SHAPED TO INDICATED PROFILES AND SHALL BE REASONABLY SMOOTH AND FREE FROM IRREGULAR SURFACE CHANGES AND SHALL BE NO MORE THAN 1 INCH ABOVE OR BELOW THE INDICATED SURFACE ELEVATIONS.
- THE GRADING CONTRACTOR SHALL BACKFILL ALL PARKING LOT PLANTERS AND LAWN AREAS TO WITHIN 2 INCHES OF THE TOP ADJACENT CURB GRADES. THE TOP 4 INCHES MINIMUM SHALL BE TOPSOIL, FREE FROM DEBRIS AND STONES LARGER THAN 1 INCH IN DIAMETER.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PUMPS, DITCHING, WELL POINT SYSTEMS AND OTHER MEANS FOR REMOVING WATER FROM EXCAVATIONS, TRENCHES, SUBGRADES AND OTHER PARTS OF THE WORK. THE CONTRACTOR SHALL CONTINUE DE-WATERING OPERATIONS UNTIL THE WATER HAS BEEN REMOVED ENTIRELY. UPON COMPLETION OF WATER REMOVAL, THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DRY THE SOILS, REGRADE TO PROPOSED ELEVATIONS AND COMPACT SOILS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DISPOSE OF WATER IN A SAFE AND SANITARY WAY TO PREVENT FLOODING OR INJURY TO PUBLIC OR PRIVATE PROPERTY AND SHALL OBTAIN APPROVAL OF THE LOCAL GOVERNING AUTHORITY BEFORE DISCHARGING RUN-OFF WATER TO THEIR SYSTEM. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND NEW GRADES.

BITUMINOUS PAVING SPECIFICATIONS

- REFERENCE SPECIFICATIONS WHERE APPLICABLE TO WORK UNDER THIS SECTION ARE REFERRED TO BY ABBREVIATION AS FOLLOWS:
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
 - THE ASPHALT INSTITUTE (TAI)
 - MICHIGAN DEPARTMENT OF TRANSPORTATION/ CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION (MDOT)
 - AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
- AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF SECTION 902 OF THE MDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND SHALL CONSIST OF 21AA CRUSHED AGGREGATE. THE USE OF SLAG IS PROHIBITED.
- TACK COAT SHALL BE EMULSIFIED ASPHALT MEETING REQUIREMENTS OF MDOT SECTION 904, GRADE CSS-1H.
- AGGREGATE SHALL CONSIST OF CRUSHED STONE, CRUSHED GRAVEL, A MIXTURE OF UNCRUSHED GRAVEL WITH EITHER CRUSHED STONE OR CRUSHED GRAVEL, OR OTHER INERT MATERIAL HAVING SIMILAR CHARACTERISTICS. IT SHALL BE COMPOSED OF CLEAN, TOUGH, DURABLE FRAGMENTS FROM AN EXCESS OF FLAT OR ELONGATED PIECES, AND SHALL BE FREE OF ORGANIC MATTER AND DELETERIOUS SUBSTANCES AND MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATIONS, SECTION 902, 21AA. CONTRACTOR MAY USE CRUSHED HMA AGGREGATE SCREENED TO MEET THE REQUIREMENTS OF MDOT 21AA MATERIAL.
- FINE AGGREGATE SHALL BE WELL GRADED FROM COARSE TO FINE AND CONSIST OF NATURAL SAND, STONE SCREENINGS, OR A BLEND OF NATURAL SAND AND STONE SCREENINGS. IT SHALL BE COMPOSED OF ROUGH SURFACED AND ANGULAR GRAINS OF QUARTZ OR OTHER HARD DURABLE ROCK AND MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATIONS, SECTION 902 FOR CLASS II OR CLASS III GRANULAR MATERIAL. CONTRACTOR MAY USE CRUSHED HMA AGGREGATE SCREENED TO MEET THE REQUIREMENTS OF MDOT CLASS II OR CLASS III MATERIAL.
- ASPHALT CEMENT SHALL COMPLY WITH THE REQUIREMENTS OF MDOT SECTION 904.
- HOT MIXED ASPHALT (HMA) SHALL COMPLY WITH MDOT SECTION 501 OF STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- BITUMINOUS LEVELING COURSE SHALL BE MDOT HMA, 13A, UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY OR ROAD AGENCY WITH JURISDICTION.
- BITUMINOUS WEARING COURSE SHALL BE MDOT HMA, 36A UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY OR ROAD AGENCY WITH JURISDICTION. THE CONTRACTOR MAY SUBSTITUTE 13A WITH THE APPROVAL OF THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL SUBMIT, TO THE OWNER, TWO COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR. CERTIFICATES SHALL STATE THAT EACH MATERIAL ITEM MEETS SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER, JOB-MIX FORMULAS FOR EACH REQUIRED ASPHALT AGGREGATE MIXTURE. JOB-DESIGN SHALL BE WITHIN ALLOWABLE TOLERANCES AS SPECIFIED BY MDOT FOR THE PARTICULAR APPLICATION.
- SUBGRADE PREPARATIONS SHALL CONSIST OF THE FINAL MACHINING OF THE SUBGRADE IMMEDIATELY PRIOR TO PLACING THE BITUMINOUS BASE COURSE. THE SUBGRADE SHALL BE COMPACTED PER PLANS AND DETAILS. THE SUBGRADE SHALL BE TRUE TO LINE AND GRADE.
- CRUSHED AGGREGATE BASE COURSE SHALL BE COMPACTED TO A DENSITY EQUAL TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR).
- BITUMINOUS CONCRETE PAVEMENT CONSTRUCTION METHODS SHALL CONFORM TO APPLICABLE PORTIONS OF SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL NOT PLACE THE AGGREGATE BASE COURSE OR THE BITUMINOUS BASE COURSE PRIOR TO THE APPROVAL OF THE SUBGRADE BY THE GEOTECHNICAL ENGINEER.
- EACH LIFT AND COURSE OF BITUMINOUS CONCRETE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER, PRIOR TO THE PLACEMENT OF A SUCCEEDING COURSE OR LIFT.
- APPLY BITUMINOUS TACK COATS ONLY WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES F. FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. CONSTRUCT BITUMINOUS CONCRETE WEARING COURSE WHEN AMBIENT TEMPERATURE IS ABOVE 40-DEGREES F AND RISING, AND PROCEEDING COURSE OR LIFT IS CLEAN AND DRY. BASE COURSE MAY BE LAID WHEN TEMPERATURE IS ABOVE 35 DEGREES F. AND RISING AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- THE BITUMINOUS CONCRETE SHALL BE TRANSPORTED FROM THE MIXING PLANT TO THE POINT OF USE IN VEHICLES CONFORMING TO THE REQUIREMENTS OF SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. DELIVERIES SHALL BE SCHEDULED SO THAT SPREADING AND ROLLING OF ALL BITUMINOUS CONCRETE PREPARED FOR ONE DAY'S RUN CAN BE COMPLETED DURING DAYLIGHT, UNLESS ADEQUATE ARTIFICIAL LIGHTING IS PROVIDED. HAULING OVER FRESHLY PLACED BITUMINOUS MAT SHALL NOT BE PERMITTED UNTIL THE BITUMINOUS CONCRETE HAS BEEN COMPACTED, AS SPECIFIED, AND ALLOWED TO COOL TO ATMOSPHERIC TEMPERATURE.
- UPON ARRIVAL, THE BITUMINOUS CONCRETE SHALL BE SPREAD TO A THICKNESS NOT TO EXCEED 3-INCHES AND TO THE FULL WIDTH BY AN APPROVED BITUMINOUS PAVER. IT SHALL BE STRUCK OFF IN A UNIFORM LAYER OF SUCH DEPTH THAT, WHEN THE WORK IS COMPLETED, IT SHALL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND CONTOUR INDICATED. THE SPEED OF THE PAVER SHALL BE REGULATED TO ELIMINATE PULLING AND TEARING OF THE BITUMINOUS MAT. UNLESS OTHERWISE STATED, THE MINIMUM SPEED OF THE BITUMINOUS CONCRETE SHALL BEGIN ALONG THE CENTERLINE OF A CROWNED SECTION OR ON THE HIGH SIDE OF AREAS WITH A ONE-WAY SLOPE. THE BITUMINOUS CONCRETE SHALL BE PLACED IN CONSECUTIVE ADJACENT STRIPS HAVING A MINIMUM WIDTH OF 10 FEET, EXCEPT WHERE EDGE LANES REQUIRE LESS WIDTH TO COMPLETE THE AREA. TRANSVERSE JOINTS IN ADJACENT LANES SHALL BE OFFSET A MINIMUM OF 10 FEET. WHERE POSSIBLE, JOINTS SHALL BE LOCATED AT THE LANE EDGES.
- ON AREAS WHERE IRREGULARITIES OR UNAVOIDABLE OBSTACLES MAKE THE USE OF MECHANICAL SPREADING AND FINISHING EQUIPMENT IMPRACTICAL, THE BITUMINOUS CONCRETE MAY BE SPREAD AND RAKED BY HAND TOOLS.
- THE BITUMINOUS CONCRETE SHALL BE PLACED AT A TEMPERATURE OF NOT LESS THAN 250 NOR HIGHER THAN THE RECOMMENDED TEMPERATURE OF THE BINDER PRODUCER OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- THE BITUMINOUS CONCRETE MIXTURE SHALL BE THOROUGHLY AND UNFORMALLY COMPACTED BY ROLLING. THE SURFACE SHALL BE ROLLED WHEN THE GEOTECHNICAL ENGINEER THESE AREAS OF EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AND SHALL BE BROUGHT BACK TO THE ELEVATION OF THE SURROUNDING AREAS WITH APPROVED FILL MATERIAL AND IN ACCORDANCE WITH THE EARTH FILL CONSTRUCTION PROCEDURE.
- THE SPEED OF THE ROLLER SHALL, AT ALL TIMES, BE SUFFICIENTLY SLOW TO AVOID DISPLACEMENT OF THE HOT BITUMINOUS CONCRETE. ANY DISPLACEMENT OCCURRING AS A RESULT OF REVERSING THE DIRECTION OF THE ROLLER, OR FROM ANY OTHER CAUSE, SHALL BE CORRECTED AT ONCE.
- SUFFICIENT ROLLERS SHALL BE FURNISHED TO HANDLE THE OUTPUT OF THE PLANT. ROLLING SHALL CONTINUE UNTIL ALL ROLLER MARKS ARE ELIMINATED, THE SURFACE IS OF UNIFORM TEXTURE AND TRUE TO GRADE AND CROSS-SECTION, AND THE REQUIRED FIELD DENSITY IS OBTAINED.
- TACK COAT SHALL BE APPLIED TO THE SURFACE OF PREVIOUS LIFTS AND COURSES OF BITUMINOUS CONCRETE AND TO SURFACES ABUTTING OR PROJECTING INTO THE BITUMINOUS CONCRETE.
- IMMEDIATELY BEFORE PLACING A SUCCEEDING LIFT OR COURSE OF BITUMINOUS CONCRETE THE PRECEDING LIFT OR COURSE SHALL BE CLEARED OF ANY DEBRIS OR STANDING WATER BY APPROPRIATE METHODS.
- TO PREVENT ADHESION OF THE BITUMINOUS CONCRETE TO THE ROLLER, THE WHEELS SHALL BE KEPT PROPERLY MOISTENED, BUT EXCESSIVE WATER WILL NOT BE PERMITTED.
- IN AREAS NOT ACCESSIBLE TO THE ROLLER, THE BITUMINOUS CONCRETE SHALL BE THOROUGHLY COMPACTED WITH HOT HAND TAMPERS.
- ANY BITUMINOUS CONCRETE THAT BECOMES LOOSE AND BROKEN, MIXED WITH DIRT, OR IN ANY WAY DEFECTIVE SHALL BE REMOVED AND REPLACED WITH FRESH HOT BITUMINOUS CONCRETE AND IMMEDIATELY COMPACTED TO CONFORM TO THE SURROUNDING AREA. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. SKIN PATCHING SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL PROVIDE AT LEAST TWO ROLLERS FOR EACH PAVEMENT OPERATING ON THE WORK. THE CONTRACTOR SHALL USE ADDITIONAL ROLLERS AS REQUIRED TO OBTAIN THE SPECIFIED PAVEMENT DENSITY.

BITUMINOUS PAVING SPECIFICATIONS, CONTINUED

- THE CONTRACTOR SHALL CAREFULLY MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE A CONTINUOUS BOND BETWEEN ADJOINING WORK. CONTRACT JOINTS TO HAVE THE SAME TEXTURE, DENSITY AND SMOOTHNESS AS OTHER SECTIONS OF THE BITUMINOUS CONCRETE COURSE. THE CONTRACTOR SHALL CLEAN CONTACT SURFACES OF SAND, DIRT, OR OTHER OBJECTIONABLE MATERIAL AND APPLY TACK COAT BEFORE MAKING THE JOINT.
 - THE CONTRACTOR SHALL TEST THE FINISHED SURFACE OF EACH BITUMINOUS CONCRETE COURSE FOR SMOOTHNESS, USING A 10 FOOT STRAIGHTEDGE APPLIED PARALLEL WITH AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA. SURFACE SHALL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS.
 - LEVELING COURSE SURFACE: 1/4 INCH, PLUS OR MINUS 1/4 INCH.
 - SURFACE COURSE: 1/4 INCH
 - THE CONTRACTOR SHALL TEST CROWNED SURFACES WITH A CROWN TEMPLATE, CENTERED AND AT RIGHT ANGLES TO THE CROWN. SURFACES WILL NOT BE ACCEPTABLE IF THE FINISHED CROWN SURFACES VARY MORE THAN 1/4 INCH FROM THE CROWN TEMPLATE.
 - AFTER FINAL ROLLING, THE CONTRACTOR SHALL NOT PERMIT VEHICULAR TRAFFIC ON THE BITUMINOUS CONCRETE PAVEMENT UNTIL IT HAS COOLED AND HARDENED, AND IN NO CASE SOONER THAN SIX HOURS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
 - THE AGGREGATE BASE MUST EXTEND A MINIMUM OF 1' BEHIND THE BACK-OF-CURB OR BEYOND EDGE OF PAVEMENT WHEN NO CURB IS PROPOSED.
- ### CONCRETE CURB, SIDEWALK AND PAVEMENT SPECIFICATIONS
- THESE SPECIFICATIONS SHALL GOVERN THE CONSTRUCTION OF ALL PAVEMENTS, CURB AND GUTTER, SIDEWALKS, SERVICE WALKS, DRIVEWAY APPROACHES, AND LOADING DOCK AREAS, AS INDICATED ON THE DRAWINGS.
 - REFERENCE SPECIFICATIONS WHERE APPLICABLE TO WORK UNDER THIS SECTION ARE REFERRED BY ABBREVIATION AS FOLLOWS:
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
 - AMERICAN CONCRETE INSTITUTE (ACI)
 - MICHIGAN DEPARTMENT OF TRANSPORTATION/ CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION (MDOT)
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - THE FINE AGGREGATE SHALL MEET ALL REQUIREMENTS OF SECTION 902 OF MDOT SPECIFICATIONS FOR NO. 2MS NATURAL SAND.
 - THE COARSE AGGREGATE SHALL MEET ALL REQUIREMENTS OF SECTION 902 OF M.D.O.T. SPECIFICATIONS FOR 6AA COARSE AGGREGATE.
 - THE CONTRACTOR SHALL SUBMIT, TO THE OWNER, TWO COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR. CERTIFICATES SHALL STATE THAT EACH MATERIAL ITEM MEETS SPECIFIED REQUIREMENTS.
 - THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER, JOB MIX-FORMULAS FOR EACH REQUIRED CEMENT-AGGREGATE MIXTURE. JOB DESIGNS SHALL BE WITHIN ALLOWABLE TOLERANCES AS SPECIFIED FOR THE PARTICULAR APPLICATION.
 - CONCRETE MIX SHALL BE AIR-ENTRAINED AND PROPORTIONED TO PROVIDE THE FOLLOWING:
 - COMPRESSIVE STRENGTH AT 28 DAYS: 3500 PSI MIN. OR AS INDICATED ON PLANS.
 - TOTAL AIR CONTENT BY VOLUME: 5% TO 8%.
 - SUMP 3 INCH MAXIMUM, OR AS INDICATED ON PLANS.
 - THE CONTRACTOR SHALL AT HIS EXPENSE FURNISH SAMPLES OF FRESH CONCRETE AND PROVIDE SAFE AND SATISFACTORY FACILITIES FOR OBTAINING THE SAMPLES.
 - CONSTRUCTED CONCRETE CURBING ONLY WHEN GROUND TEMPERATURE IS ABOVE 35 DEGREES F. AND BASE IS DRY.
 - ALL CEMENT USED IN CURB CONSTRUCTION SHALL BE PORTLAND CEMENT, TYPE I OR IA ASTM C-150.
 - WATER USED IN CONCRETE SHALL MEET THE REQUIREMENTS OF MDOT SECTION 911.
 - AIR ENTRAINING ADMIXTURE SHALL BE SELECTED FROM THE MDOT QUALIFIED PRODUCTS LIST.
 - ALL READY-MIXED CONCRETE SUPPLIERS MUST BE APPROVED BY THE OWNER AND MEET THE CURRENT REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMA). IF REQUESTED BY THE OWNER, SUBMIT A WRITTEN DESCRIPTION OF PROPOSED READY-MIXED CONCRETE MANUFACTURER, GIVING QUALIFICATIONS OF PERSONAL, LOCATION OF BATCHING PLANT, LIST OF PROJECTS SIMILAR IN SCOPE OF SPECIFIED WORK, AND OTHER INFORMATION AS MAY BE REQUESTED BY THE OWNER.
 - THE CONTRACTOR SHALL SUBMIT A STATEMENT OF PURCHASE FOR READY-MIXED CONCRETE. PRIOR TO ACTUAL DELIVERY OF CONCRETE, SUBMIT TO THE GEOTECHNICAL ENGINEER FOUR COPIES OF STATEMENT OF PURCHASE, GIVING THE DRY WEIGHTS OF CEMENT AND SATURATED SURFACE DRY WEIGHTS OF FINE AND COARSE AGGREGATES AND QUANTITIES, TYPE AND NAME OF ADMIXTURES (IF ANY) AND OF WATER PER CU.YD., THAT WILL BE USED IN THE MANUFACTURE OF THE CONCRETE. THE CONTRACTOR SHALL ALSO FURNISH EVIDENCE SATISFACTORY TO THE GEOTECHNICAL ENGINEER THAT THE MATERIALS TO BE USED AND THE PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF THE QUALITY SPECIFIED. WHATEVER STRENGTHS ARE OBTAINED, THE QUANTITY OF CEMENT USED SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED.
 - READY-MIXED CONCRETE DELIVERY TICKETS: SUBMIT ONE COPY OF EACH DELIVERY TICKET TO THE GEOTECHNICAL ENGINEER AND CONTRACTOR IN ACCORDANCE WITH SECTION 16 OF ASTM C94.
 - READY-MIXED CONCRETE SHALL BE BATCHED, MIXED AND TRANSPORTED IN ACCORDANCE WITH ASTM C94, AND COMPLY WITH ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE," EXCEPT AS OTHERWISE SPECIFIED HEREIN.
 - READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED TO THE POINT OF DISCHARGE AT THE JOB BY MEANS OF A READY MIX CONCRETE TRUCK.
 - NO WATER FROM THE TRUCK WATER SYSTEM OR ELSEWHERE SHALL BE ADDED AFTER THE INITIAL INTRODUCTION OF THE MIXING WATER FOR THE BATCH. UNDER NO CIRCUMSTANCES SHALL APPROVED MAXIMUM WATER BE EXCEEDED NOR SHALL THE SLUMP EXCEED THE MAXIMUM SPECIFIED.
 - DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 1-1/2 HOURS OR BEFORE THE DRUMS REVOLVED 300 REVOLUTIONS, WHICHEVER COMES FIRST, AFTER THE INTRODUCTION OF THE MIXING WATER TO THE CEMENT AND AGGREGATES OR THE INTRODUCTION OF THE CEMENT TO THE AGGREGATES.
 - IN HOT WEATHER (AIR TEMPERATURE 80-DEGREES F. AND ABOVE) OR UNDER CONDITIONS CONTRIBUTING TO QUICK STIFFENING OF THE CONCRETE, THE TIME SHALL BE REDUCED TO ONE HOUR.
 - CONCRETE DELIVERED IN COLD WEATHER (AIR TEMPERATURE 45-DEGREES F. AND LOWER) SHALL HAVE A TEMPERATURE NOT LESS THAN 60-DEGREES F. AT THE POINT OF DISCHARGE AT THE JOB, AND IN COMPLIANCE WITH ACI 308R "COLD WEATHER CONCRETING". CONCRETE PLACING WILL NOT BE PERMITTED WHEN THE AIR TEMPERATURE IS 35-DEGREES F. OR LOWER.
 - CONCRETE DELIVERED UNDER HOT WEATHER CONDITIONS CONTRIBUTING TO QUICK STIFFENING OF CONCRETE, OR IN AIR TEMPERATURE OF 80-DEGREES F. AND OVER, SHALL HAVE A TEMPERATURE BETWEEN 60- AND 80-DEGREES F. AT THE POINT OF DISCHARGE AT THE JOB, AND IN ACCORDANCE WITH ACI 305R "HOT WEATHER CONCRETING".
 - IN NO CASE SHALL THE MIXER OR TRUCK BE FLUSHED OUT ONTO THE STREET PAVEMENT, IN A CATCH BASIN OR SEWER MANHOLE, OR IN ANY PUBLIC RIGHT-OF-WAY. SEE SOIL EROSION CONTROL PLAN FOR CONCRETE WASHOUT LOCATION.
 - REINFORCEMENT BARS SHALL BE PER MDOT SECTION 905.
 - TIE WIRE SHALL BE BLACK, ANNEALED STEEL WIRE, NOT LESS THAN 16 GAUGE.

CONCRETE CURB, SIDEWALK AND PAVEMENT SPECIFICATIONS, CONTINUED

- BAR SUPPORTS SHALL CONFORM TO THE BAR SUPPORT SPECIFICATIONS CONTAINED IN CONCRETE REINFORCING STEEL INSTITUTE'S (CRS) "MANUAL OF STANDARD PRACTICE." PROVIDE CHAIRS, SPACERS AND OTHER DEVICES SUITABLE FOR PROPER SPACING SUPPORTING AND FASTENING REINFORCING BARS.
- WHEN FORMS ARE USED AND THE CURB RADIUS IS LESS THAN 200 FEET, THE CURVED ALIGNMENT SHALL BE PROVIDED FOR BY EITHER STANDARD STEEL FORMS EQUIPPED WITH FLEXIBLE LINES OR BY FLEXIBLE FORMS. THE FORMS SHALL BE OF THE FULL DEPTH OF THE SECTION. CURB AND GUTTER FORMS SHALL BE SO CONSTRUCTED AS TO PERMIT THE INSIDE OF THE FORMS TO BE SECURELY FASTENED TO THE OUTSIDE FORMS.
- ALL NEW CURB SHALL BE PLACED ONLY ON A PREPARED SUBGRADE, SMOOTH AND LEVELED TO THE GRADES ESTABLISHED BY THE ENGINEER.
- COMPACT AND CUT-TO-GRADE SUBGRADE UNDER FORMS SO THAT FORMS WHEN SET WILL BE UNIFORMLY SUPPORTED FOR THE ENTIRE LENGTH. SECURELY STAKE AND BRACE OR TIE THE FORMS TO PREVENT LEAKAGE OF MORTAR. BRACING WITH EARTH WILL NOT BE PERMITTED.
- COAT SURFACES OF FORMS TO BE IN CONCRETE WITH A LIGHT CLEAR PARAFFIN OIL OR PARTING COMPOUND WHICH WILL NOT STAIN THE CONCRETE.
- THE INTERIOR SURFACES OF CONCRETE CONVEYING EQUIPMENT SHALL BE MAINTAINED FREE OF HARDENED CONCRETE, DEBRIS, WATER, SNOW, ICE AND OTHER DELETERIOUS MATERIALS.
- CURBING MAY BE CONSTRUCTED EITHER BY USE OF FORMS OR BY A MECHANICAL CURB AND GUTTER PAVEMENT, PROVIDED THE REQUIRED FINISH, AND CROSS-SECTION, OF THE PAVEMENT ARE OBTAINED. FORMS SHALL BE CORRECTED BEFORE PLACING. PROVIDE ONE COURSE MONOLITHIC STRUCTURE WITHOUT THE USE OF MORTAR TOPPING OR SAND-CEMENT DRYER. CONCRETE SHALL BE SPADED OR VIBRATED SUFFICIENTLY TO ENSURE SATISFACTORY CONSOLIDATION.
- PROVIDE REINFORCEMENT FOR CONCRETE CURB AS SHOWN ON THE DRAWINGS. REINFORCEMENT SHALL BE KEPT CLEAN AND FREE FROM OBJECTIONABLE RUST. BENDS OR KINKS IN REINFORCING BARS SHALL BE CORRECTED BEFORE PLACING. ALL REINFORCEMENT SHALL BE ACCURATELY LOCATED IN FORMS AND SECURELY HELD IN PLACE BEFORE AND DURING CONCRETE PLACING, BY SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
- THE CONCRETE CURB SURFACE SHALL BE STRUCK OFF THE REQUIRED CROSS-SECTION WITH A TEMPLATE. AFTER THE CONCRETE CURB HAS BEEN FLOATED TO AN EVEN SURFACE, THE CONTRACTION JOINT SHALL BE CUT AND ALL SLAB EDGES ROUNDED WITH A 1/2 INCH RADIUS EDGING TOOL THAT WILL FINISH TO A WIDTH OF 2 INCHES. AFTER THE CONCRETE HAS SLIGHTLY SET, A BROOM SHALL BE BRUSHED LIGHTLY ACROSS THE SURFACE PLACING TO FORMS SO AS TO IMPART A ROUGH FINISH.
- CONTRACTION JOINTS SHALL BE CUT IN CONCRETE CURBING AT MINIMUM 10' INTERVALS. THE JOINT SHALL CUT 1/4 INCH WIDE BY 1/3 THE DEPTH OF THE CONCRETE CURB SECTION. JOINTS SHALL ALSO BE LOCATED ADJACENT TO CURB DROPS.
- ISOLATION JOINTS SHALL BE PLACED IN CURBING AT TANGENT POINTS IN CURB RETURNS AT INTERSECTIONS. AT BOTH SIDES OF STRUCTURES LOCATED IN THE DRIVE AND IN KINGS IN REINFORCING BARS SHALL BE CORRECTED BEFORE PLACING. ISOLATION JOINTS SHALL BE 1" THICK PRE-FORMED JOINT FILLER STRIPS. THE STRIPS SHALL EXTEND THE FULL DEPTH OF THE CONCRETE CURB SECTION. ISOLATION JOINTS SHALL BE PLACED IN CURB AT THE END OF EACH DAYS POUR AND WHEN ABUTTING PREVIOUSLY POURED CURB.
- THE CURING COMPOUND SHALL BE A WHITE PARAFIN BASED COMPOUND SELECTED FROM MDOT'S QUALIFIED PRODUCTS LIST APPLIED AT 200 SQ.FT./GAL.
- ALL CONTRACTION JOINTS IN CONCRETE CURB SECTIONS SHALL BE SEALED WITH EITHER HOT POURED JOINT SEALER OR COLD APPLIED JOINT SEALER.
- SLIGHTLY UNDERFILL JOINT GROOVE WITH JOINT SEALER TO PREVENT EXTRUSION OF THE SEALER. REMOVE EXCESS JOINT SEALER MATERIALS AS SOON AFTER SEALING AS POSSIBLE.
- FRESHLY PLACED CONCRETE SHALL BE PROTECTED AS REQUIRED TO MAINTAIN THE TEMPERATURE OF THE CONCRETE AT NOT LESS THAN 50 DEGREES F. NOR MORE THAN 80 DEGREES F. AND IN A MOST CONDITION CONTINUOUSLY FOR THE PERIOD OF TIME NECESSARY FOR THE CONCRETE TO GAIN THE MINIMUM TEMPERATURE OF THE CONCRETE DURING CURING PERIOD. COLD WEATHER PROTECTION SHALL MEET THE REQUIREMENTS OF ACI 306R "COLD WEATHER CONCRETING".
- HOT WEATHER PROTECTION: WHEN THE TEMPERATURE OF THE ATMOSPHERE IS 90-DEGREES F. AND ABOVE, OR DURING OTHER CLIMATIC CONDITIONS WHICH WILL CAUSE TOO RAPID DRYING OF THE CONCRETE, THE CONCRETE SHALL BE PROTECTED BY WINDBREAKS, SHADING, FOG SPRAYING LIGHT COLORED MOISTURE RETAINING COVERING, OR A COMBINATION OF THEREOF AS REQUIRED TO MAINTAIN THE TEMPERATURE OF THE CONCRETE BELOW 80-DEGREE F. AND IN A MOST CONDITION CONTINUOUSLY FOR THE CONCRETE CURING PERIOD. HOT WEATHER PROTECTION SHALL MEET THE REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING".
- ALL FORMS, RAILS AND STAKES SHALL BE REMOVED WITHIN 24 HOURS AFTER PLACING THE CURB. EXPOSED EDGES OF CONCRETE SHALL BE IMMEDIATELY BACKFILLED OR SPRAYED WITH CURING COMPOUND.
- AFTER COMPLETION OF CONCRETE CURBING IN AN AREA, REMOVE ALL WEATHER PROTECTION MATERIALS, RUBBISH AND DEBRIS RESULTING FROM SPECIFIED WORK, SWEEP CONCRETE CURBS CLEAN, AND SEAL JOINTS.
- ALL CEMENT USED IN SIDEWALK CONSTRUCTION SHALL BE PORTLAND CEMENT, TYPE I OR IA ASTM C-150.
- ALL NEW WALKS AND CONCRETE PAVEMENTS SHALL BE PLACED ONLY ON A PREPARED SUBGRADE, SMOOTHED AND LEVELED TO THE GRADES ESTABLISHED BY THE ENGINEER. THE SOILS THEAT BE PLACED SHALL BE GRAVATED 2-INCHES BELOW THE SIDEWALK BASE AND FILLED WITH APPROVED SAND MEETING MDOT CLASS II, SAND DESIGNATION.
- CONSTRUCT CONCRETE SURFACE COURSE ONLY WHEN GROUND TEMPERATURE IS ABOVE 35 DEGREES F. AND BASE IS DRY.
- SIDEWALKS SHALL PITCH TOWARD THE STREET OR AWAY FROM BUILDINGS WITH A MAXIMUM CROSS SLOPE OF 1/4-INCH PER FOOT OF WIDTH AND A MINIMUM CROSS SLOPE OF 1/8-INCH PER FOOT OF WIDTH. CROSS SLOPE DIRECTION TRANSITIONS SHALL BE ACCOMPLISHED IN LENGTHS OF 10 FEET OR LESS.
- PRIOR TO PLACING THE CONCRETE, ALL DEBRIS, STONES, DIRT, ETC., SHALL BE REMOVED FROM THE SUBGRADE. THE SUBGRADE SHALL BE MOISTENED WITH WATER IN SUCH A MANNER AS TO THOROUGHLY WET THE MATERIAL WITHOUT FORMING PUDDLES OR POCKETS OF WATER. NO CONCRETE SHALL BE PLACED ON FROZEN SUBGRADE.
- FORMS SHALL BE METAL OR WOOD AND OF AN APPROVED SECTION. THEY SHALL BE STRAIGHT, FREE FROM DISTORTION AND SHALL SHOW NO VERTICAL VARIATION GREATER THAN 1/8 INCH IN 10-FOOT LENGTHS FROM THE TRUE PLANE SURFACE ON THE TOP OF THE FORMS WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE, AND SHALL SHOW NO LATERAL VARIATION GREATER THAN 1/4-INCH IN 10-FEET FROM THE TRUE PLANE SURFACE OF THE LATERAL FACE OF THE FORM WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE. THEY SHALL BE OF THE DEPTH SPECIFIED FOR THE SIDEWALK, OR CONCRETE PAVEMENT PER PLANE AND DETAILS, AND BE SECURELY HELD IN PLACE AND TRUE TO LINE AND GRADE.
- THE CONCRETE SHALL BE DEPOSITED CONTINUOUSLY IN THE FORMS IN SUCH A MANNER AS TO AVOID SEGREGATION AND IT SHALL BE THOROUGHLY TAMPED OR VIBRATED SO THAT THE FORMS ARE ENTIRELY FILLED AND THE CONCRETE THOROUGHLY CONSOLIDATED. THE SLABS SHALL BE PLACED IN SECTIONS OR BLOCKS IN ONE OPERATION AS A MONOLITH.
- THE CONCRETE SURFACE SHALL BE STRUCK OFF TO A PLANE SURFACE WITH A STRAIGHTEDGE. AFTER THE CONCRETE HAS BEEN FLOATED TO AN EVEN SURFACE, THE CONTRACTION JOINT SHALL BE CUT AT ALL SLAB EDGES ROUNDED WITH A 1/2-INCH RADIUS EDGING TOOL THAT WILL FINISH TO A WIDTH OF 2-INCHES. AFTER THE CONCRETE HAS SLIGHTLY SET, A BROOM SHALL BE BRUSHED LIGHTLY ACROSS THE SURFACE AT RIGHT ANGLES TO FORMS SO AS TO IMPART A ROUGH FINISH.
- CONTRACTION JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE SIDEWALK PAVEMENT AND TO THE SURFACE OF THE SIDEWALK. LOCATE JOINTS AT A DEPTH OF AT LEAST 1/4 THE SLAB THICKNESS WITH A MINIMUM DEPTH OF 1-1/4-INCHES FOR SIDEWALKS AND 3-INCHES FOR CONCRETE PAVEMENT SLABS.
- CONTRACTION JOINTS IN SIDEWALKS SHALL BE SPACED AT A MINIMUM OF EVERY 5- FEET IN 4" SIDEWALK, OR 8- FEET IN 6" SIDEWALK, OR AS SHOWN ON THE PLANS.

CONCRETE CURB, SIDEWALK AND PAVEMENT SPECIFICATIONS, CONTINUED

- ISOLATION PAPERS SHALL BE OF THE PRE-MOLDED, NON-EXTRUDING, ASPHALT IMPREGNATED TYPE, NOT LESS THAN 1/2-INCH THICK. THE LENGTH SHALL BE EQUAL TO THE WIDTH OF THE SLAB, AND THE DEPTH EQUAL TO THE THICKNESS OF THE SLAB PLUS 1-INCH.
 - ISOLATION JOINTS SHALL BE PLACED AT THE FOLLOWING LOCATION FOR SIDEWALKS AND CONCRETE PAVEMENTS:
 - AT THE BACK OF THE CURB AND FRONT EDGE OF THE SIDEWALKS AND PAVEMENT SLABS ADJACENT TO EACH DRIVEWAY APPROACH AND SERVICE WALK.
 - AT INTERVALS NOT TO EXCEED 50- FEET IN ALL PUBLIC SIDEWALKS.
 - AT THE BACK OF THE CURB WHERE THE RAMPS EXTEND FROM THE KEY FLAG TO THE PAVEMENT.
 - BETWEEN THE KEY FLAG AND THE RAMP IN ALL CASES, EXCEPT WHERE THERE ARE EXISTING EXPANSION JOINTS AT THE INTERSECTIONS OF THE SIDEWALKS AND THE KEY FLAG.
 - AT ANY PLACE WHERE A SIDEWALK OR CONCRETE PAVEMENT ABUTS A BUILDING OR FIXED STRUCTURE.
 - AT ANY OTHER LOCATIONS INDICATED ON THE PLAN.
 - CONTRACTION JOINTS IN THE CONCRETE PAVEMENT WILL BE AS FOLLOWS:
 - TRANSVERSE JOINTS SHALL BE AT MAXIMUM 10-FOOT INTERVALS OR AS SHOWN ON PLANS AND DETAILS.
 - LONGITUDINAL JOINTS SHALL BE AT MAXIMUM 12-FOOT INTERVALS OR AS SHOWN ON PLANS AND DETAILS.
 - PRIOR TO APPLYING JOINT SEALER, CLEAN JOINT GROOVE OF FOREIGN MATTER AND LOOSE PARTICLES, AND DRY SURFACE.
- ### TRAFFIC LANE AND PARKING LOT MARKING
- PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY TO COMPLETE ALL TRAFFIC LANE AND PARKING LOT MARKINGS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - WORK INCLUDES, BUT NOT LIMITED TO PAINTING OF LETTERS, MARKINGS, STRIPES AND ISLANDS ON THE PAVEMENT SURFACE APPLIED IN ACCORDANCE WITH THIS SPECIFICATION AND AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - TRAFFIC MARKING PAINT SHALL MEET THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-P-1955F, WITH OR WITHOUT REFLECTORIZED BEADS AS REQUIRED ON THE PLANS. OR SHALL BE A PRODUCT FROM THE CURRENT MDOT QUALIFIED PRODUCTS LIST.
 - COLOR SHALL BE AS SPECIFIED ON THE PLANS OR AS FOLLOWS:
 - TRAFFIC LANE STRIPING SHALL BE WHITE OR YELLOW REFLECTORIZED, AS SHOWN ON THE PLANS.
 - TRAFFIC MARKING AND CURB FACES SHALL BE WHITE UNLESS NOTED OTHERWISE.
 - PARKING LOT STRIPING SHALL BE WHITE, UNLESS NOTED OTHERWISE.
 - HANDICAP STALL STRIPING MEETING CURRENT ADA REQUIREMENTS SHALL BE BLUE UNLESS NOTED OTHERWISE.
 - THE PAINTING SHALL BE PERFORMED ONLY WHEN THE EXISTING SURFACE IS DRY AND CLEAN, WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 40-DEGREES F. AND WHEN THE WEATHER IS NOT EXCESSIVELY WINDY, DUSTY OR FOGGY AND WHEN RAIN IS NOT FORECASTED FOR AT LEAST 2 HOURS AFTER PAINT IS APPLIED.
 - ALL EQUIPMENT FOR THE WORK SHALL BE APPROVED BY THE CONTRACTOR AND SHALL INCLUDE THE APPARATUS NECESSARY TO PROPERLY CLEAN THE EXISTING SURFACE, A MECHANICAL MARKING MACHINE, AND SUCH AUXILIARY HAND EQUIPMENT AS MAY BE NECESSARY TO SATISFACTORILY COMPLETE THE JOB.
 - THE MECHANICAL MARKER SHALL BE AN APPROVED ATOMIZING SPRAY-TYPE MARKING MACHINE FOR TRAFFIC PAINT. IT SHALL BE SUITABLE TO PRODUCE AN EVEN AND UNIFORM FILM THICKNESS AT THE REQUIRED COVERAGE AND SHALL BE DESIGNED SO AS TO APPLY MARKINGS OF UNIFORM CROSS-SECTIONS AND CLEAR-CUT EDGES WITHOUT RUNNING OR SPATTERING AND WITHIN THE LIMITS FOR STRAIGHTNESS SET FORTH WHEN NEEDED. A DISPENSER SHALL BE FURNISHED, WHICH IS PROPERLY DESIGNED FOR ATTACHMENT TO THE MECHANICAL MARKER AND SUITABLE FOR DISPENSING THE REQUIRED QUANTITY OF REFLECTIVE BEADS.
 - SUITABLE ADJUSTMENTS SHALL BE PROVIDED ON THE SPRAYER/SPRAYERS OF A MACHINE FOR VARYING THE WIDTH REQUIRED. MULTIPLE PARALLEL PASSES TO PAINT THE REQUIRED WIDTH WILL NOT BE ALLOWED.
 - IMMEDIATELY BEFORE APPLICATION OF THE PAINT, THE EXISTING SURFACE SHALL BE DRY AND ENTIRELY FREE FROM DIRT, GREASE, OIL, ACIDS, DEBRIS, OR OTHER FOREIGN MATTER WHICH WOULD REDUCE THE BOND BETWEEN THE COAT OF PAINT AND THE PAVEMENT. THE SURFACE SHALL BE THOROUGHLY CLEANED BY BROOMING OR BLOWING AS REQUIRED TO REMOVE ALL DIRT, DEBRIS AND LOOSE MATERIALS. AREAS WHICH CANNOT BE SATISFACTORILY CLEANED BY BROOMING AND BLOWING SHALL BE SCRUBBED AS DIRECTED WITH A WATER SOLUTION OF SODIUM PHOSPHATE OR ANOTHER APPROVED EQUAL SOLUTION. AFTER SCRUBBING, THE SOLUTION SHALL BE RINSED OFF AND THE SURFACE DRIED PRIOR TO PAINTING.
 - EXISTING MARKINGS OR STRIPES WHICH ARE TO BE ABANDONED OR REMOVED SHALL BE OBLITERATED OR OBBURED BY THE BEST METHODS SUITED FOR THE PURPOSE AND TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR IS RESPONSIBLE FOR LAYING OUT A SAMPLE SECTION OF STRIPING MATERIAL TO BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE AS TO QUALITY BEFORE THE CONTRACTOR MAY PROCEED WITH THE STRIPING. THE CONTRACTOR IS TO INSURE THAT ALL SUBSEQUENT STRIPING MEETS THE QUALITY OF THE APPROVED SAMPLE APPLICATION.
 - ON THOSE SECTIONS OF PAVEMENTS WHERE NO PREVIOUSLY APPLIED FIGURES, MARKINGS OR STRIPING ARE SUITABLE TO BE USED AS A GUIDE, SUITABLE LAYOUTS AND LINES OF PROPOSED STRIPES SHALL BE SPOTTED IN ADVANCE OF THE PAINT APPLICATION. CONTROL POINTS SHALL BE SPACED AT SUCH INTERVALS AS WILL ENSURE ACCURATE LOCATION OF ALL MARKINGS.
 - THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED TECHNICIAN TO SUPERVISE THE LOCATION ALIGNMENT, LAYOUT, DIMENSIONS AND APPLICATION OF THE PAINT.
 - MARKINGS SHALL BE APPLIED AT THE LOCATIONS AND TO THE DIMENSIONS AND SPACING INDICATED ON THE PLANS OR AS SPECIFIED. PAINT SHALL NOT BE APPLIED UNTIL THE INDICATED ALIGNMENT IS LAID OUT AND THE CONDITIONS OF THE EXISTING SURFACE HAVE BEEN APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
 - THE PAINT SHALL BE MIXED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION. THE PAINT SHALL BE THOROUGHLY MIXED AND APPLIED TO THE SURFACE OF THE PAVEMENT WITH THE MARKING MACHINE AT ITS ORIGINAL CONSISTENCY WITHOUT THE ADDITION OF THINNER. IF THE PAINT IS APPLIED BY BRUSH, THE SURFACE SHALL RECEIVE TWO (2) COATS; THE FIRST COAT SHALL BE THOROUGHLY DRY BEFORE THE SECOND COAT IS APPLIED.
 - A MINIMUM OF ONE (1) WEEK SHALL ELAPSE BETWEEN APPLICATION OF THE BITUMINOUS SEAL COAT, SLURRY SEAL, OR THE PLACEMENT OF THE BITUMINOUS SURFACE COURSE AND THE MARKING OF THE PAVEMENT. THE PAINT SHALL NOT BLEED EXCESSIVELY, CURL, OR DISCOLOR WHEN APPLIED TO BITUMINOUS OR CONCRETE SURFACES. CURING COMPOUND MUST BE REMOVED FOR THE ENTIRE WIDTH OF THE PAINTED STRIPE OR SYMBOL PRIOR TO PAINTING NEW CONCRETE.
 - IN THE APPLICATION OF STRAIGHT STRIPES, ANY DEVIATION IN THE EDGES EXCEEDING 1/2-INCH IN 50- FEET SHALL BE OBLITERATED AND THE MARKING CORRECTED. THE WIDTH OF THE MARKINGS SHALL BE AS DESIGNATED WITHIN A TOLERANCE OF 5 PERCENT (5%). ALL PAINTING SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE BY COMPETENT AND EXPERIENCED EQUIPMENT OPERATORS, LABORERS, AND ARTISANS IN A NEAT AND WORKMANLIKE MANNER.
 - PAINT SHALL BE APPLIED UNIFORMLY BY SUITABLE EQUIPMENT AT A RATE OF 0.0094 GAL./S.F. FOR STENCILS AND 0.00313 GAL./FT. FOR STRIPING. PAINT APPLICATION SHALL PRODUCE AN AVERAGE WET FILM THICKNESS OF 0.015-INCHES.
 - AFTER APPLICATIONS OF THE PAINT, ALL MARKINGS SHALL BE PROTECTED WHILE THE PAINT IS DRYING. THE FRESH PAINT SHALL BE PROTECTED FROM INJURY OR DAMAGE OF ANY KIND. THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE AND SHALL ERECT OR PLACE SUITABLE WARNING SIGNS, FLAGS, OR BARRICADES. PROTECTIVE SCREENS OR COVERINGS AS REQUIRED, ALL SURFACES SHALL BE PROTECTED FROM DISFIGURATION BY SPATTER, SPLASHES, SPILLAGE, DRIPPINGS OF PAINT OR OTHER MATERIAL.

RULES, REGULATIONS OR LAWS OF ANY CONTROLLING GOVERNMENTAL AGENCY SHALL GOVERN, WHEN THEY ARE MORE STRINGENT THAN THE REQUIREMENTS OF THESE SPECIFICATIONS.

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THE LOCATIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT ELEVATION PRIOR TO THE START OF ANY WORK.

CLIENT :

HYLAND ASSOCIATES, LLC

7545 S. 10TH STREET
KALAMAZOO, MI 49009
269-207-2920
269-207-2239

SPECIFICATIONS

OAKLAND FARMS NO. 4
PART OF THE SW & SE 1/4
OF SEC. 29, T.3S., R.11W,
CITY OF PORTAGE, K

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Requests for On-Premise Quota Liquor License

SUPPORTING PERSONNEL: Erica Eklov, City Clerk

ACTION RECOMMENDED: Grant the applicant Stubble and Stache the remaining City of Portage On Premises quota liquor license from the Michigan Liquor Control Commission, adopt the Local Government Approval Resolution for the desired applicant and location, and grant a refund in the amount of \$350 each to the remaining two applicants.

Following the 2020 Census, the city was issued two additional Class C liquor licenses by the Michigan Liquor Control Commission (MLCC). One has since been issued to the Alibi Restaurant at 153 West Centre Avenue, leaving a single license available. To issue this license, the MLCC requires a local government resolution of support, which then incorporates Chapter 6 “Alcoholic Liquor” of the Code of Ordinances. Any proposals seeking a Quota License should strive to meet the parameters in Section 6-35(c) "Decision Criteria" as follows:

1. *The applicant's management experience in the alcohol/liquor business;*
2. *The applicant's general business management experience;*
3. *The applicant's general business reputation;*
4. *The applicant's moral character;*
5. *The applicant's financial status and ability to build and/or operate the proposed facility on which the proposed liquor license is to be located;*
6. *Past criminal convictions of the applicant for crimes involving moral turpitude, violence or alcoholic beverages;*
7. *The applicant's excessive use of alcoholic beverages;*
8. *The effect that the issuance of a license would have upon the economic development of the surrounding area;*
9. *The effect that the issuance of a license would have on the health, welfare and safety of the general public;*
10. *The recommendations of the local law enforcement agency, the department of community development and/or the fire department with respect to the proposed facility.(*
11. *Whether the applicant has demonstrated the public need or convenience for the issuance of the liquor license for the business facility at the location proposed.*
12. *The uniqueness of the proposed facility when contrasted against other existing or proposed facilities.*
13. *Whether the facility to which the proposed liquor license is to be issued complies, or will comply, with the building, plumbing, electrical, fire prevention and zoning codes of the city and any other*

building, plumbing, electrical, fire prevention and zoning statutes and ordinances applicable to the city.

14. *The effect that the business facility to which the proposed license is to be issued will have upon vehicular and pedestrian traffic in the area.*
15. *The proximity of the proposed business facility to other similarly situated licensed liquor facilities.*
16. *The effect that the business facility to which the proposed license is to be issued will have upon the surrounding neighborhood and/or business establishments.*
17. *The permanence of the establishment in the community as evidenced by the proposed or actual commitments made by the applicant.*
18. *Such other considerations as the council may deem proper.*

Since late October, the following three applicants have expressed interest in obtaining the remaining license:

- Vina Nails (7922 Oakland Drive)
- Stubble and Stache (161 W. Centre Avenue)
- Zap Zone XL (6780 S. Westnedge Avenue)

Following receipt of each application, the administrative procedure entails the City Clerk forwarding the application to the Finance Department, Community Development Department, and the Fire Marshal for review, as well as the Public Safety Director – Police/Fire Chief, for a comprehensive investigation. Please see the attached comparison from the administrative reviews.

The City Council Small Business Committee met on December 12, 2024, and reviewed each of the three applications. Following deliberations, the Small Business Committee recommends that the liquor license be awarded to Stubble and Stache. Committee members referenced the following factors when making their decision:

1. The business will employ people displaced by the May 7, 2024 tornado
2. Stubble & Stash will be owned and operated by the owner of a comparable existing business on Milham Avenue (A'Via)
3. Operator was one of the earlier applications submitted among the current applicants
4. The City Council advanced a small business focus in their goals for 2024/25
5. Due to the small size of the business, escrow options are impractical
6. Applicant provided a thorough and compelling application complete with a comparison of their business and the preferences outlined in Section 6.37 (Preference for New Applicants) of the City of Portage Code of Ordinances

The Committee also recommends the two unsuccessful applicants be refunded 50 percent of their application fee, or \$350, consistent with action on prior applications. Finally, the committee asked staff to investigate the creation of a business development district in the Crossroads Mall area to create eligibility for Development Liquor licenses for applicant Zap Zone.

Therefore, it is recommended that the City Council grant the applicant Stubble and Stache the remaining City of Portage On Premises quota liquor license from the Michigan Liquor Control Commission, adopt

the Local Government Approval Resolution for the desired applicant and location, and grant a refund in the amount of \$350 each to the remaining two applicants. At the direction of the Small Business Committee, staff will investigate the creation of a business development district. A vote of the City Council is unnecessary for this action to occur.

FUNDING: The city has received an application fee payment of \$850 each from all three applicants. There are no associated expenditures for the city with a liquor license designation.

Attachments:

1. MLCC Local Government Approval Resolution
2. 2024 10 30 Application (Vina Nails)
3. 2024 11 18 Application (Stubble and Stache)
4. 2024 12 09 Application (Zap Zone)
5. Fall 2024 Comparison



Local Government Approval
(Authorized by MCL 436.1501)

Instructions for Applicants:

- You must obtain a recommendation from the local legislative body for a new on-premises license application, certain types of license classification transfers, and/or a new banquet facility permit.

Instructions for Local Legislative Body:

- Complete this resolution or provide a resolution, along with certification from the clerk or adopted minutes from the meeting at which this request was considered.

At a _____ meeting of the _____ council/board
(regular or special) (township, city, village)

called to order by _____ on _____ at _____
(date) (time)

the following resolution was offered:

Moved by _____ and supported by _____

that the application from _____
(name of applicant - if a corporation or limited liability company, please state the company name)

for the following license(s): _____
(list specific licenses requested)

to be located at: _____

and the following permit, if applied for:

☐ Banquet Facility Permit Address of Banquet Facility: _____

It is the consensus of this body that it _____ this application be considered for
(recommends/does not recommend)

approval by the Michigan Liquor Control Commission.

If disapproved, the reasons for disapproval are _____

Vote

Yeas: _____

Nays: _____

Absent: _____

I hereby certify that the foregoing is true and is a complete copy of the resolution offered and adopted by the _____
council/board at a _____ meeting held on _____ (township, city, village)
(regular or special) (date)

Print Name of Clerk

Signature of Clerk

Date

Under Article IV, Section 40, of the Constitution of Michigan (1963), the Commission shall exercise complete control of the alcoholic beverage traffic within this state, including the retail sales thereof, subject to statutory limitations. Further, the Commission shall have the sole right, power, and duty to control the alcoholic beverage traffic and traffic in other alcoholic liquor within this state, including the licensure of businesses and individuals.

Please return this completed form along with any corresponding documents to:

Michigan Liquor Control Commission

Mailing address: P.O. Box 30005, Lansing, MI 48909

Hand deliveries or overnight packages: Constitution Hall - 525 W. Allegan, Lansing, MI 48933

Fax to: 517-763-0059



Liquor License Application

Application Fee: \$850.00

Pursuant to Chapter 6 (Alcoholic Liquor) of the Code of Ordinances of Portage, Michigan, each applicant for a Liquor License within the City of Portage is required to submit a current and complete "City of Portage Liquor License Application" as furnished by the City Clerk.

INSTRUCTIONS TO COMPLETE APPLICATION:

Please provide the information requested. If additional room is required for a response, please attach a separate sheet(s). The completed application must be signed and dated by the applicant, if an individual, or by a duly authorized agent thereof if a partnership or corporation.

Incomplete applications may be rejected from further consideration.

The City reserves the right to request additional information from the applicant as part of its review process.

Application fee (payable to the City of Portage), due at the time of application submission.

The completed, original application and \$850 application fee should be mailed or delivered to:

Office of the City Clerk
City of Portage
7900 South Westnedge Avenue
Portage, MI 49002

SECTION 1: Applicant Information

(complete the corresponding section that applies to your entity)

1(a): Individual Applicant				
Name: CONG LE			Age: 35	
Address: 245 Depot cir				
City: Galesburg		State: MI	ZIP Code: 49053	Phone: [REDACTED]
E-mail: [REDACTED]		Entity Website (if applicable):		

1(b): Partnership Applicant				
List the name, age, and address of all persons entitled to share in the profits thereof.				
The general partner shall sign the application and all other documents required in connection with the application.				
Name:			Age:	
Address:				
City:		State:	ZIP Code:	Phone:
E-mail:		Partnership Role:		
Name:			Age:	
Address:				
City:		State:	ZIP Code:	Phone:
E-mail:		Partnership Role:		
Name:			Age:	
Address:				
City:		State:	ZIP Code:	Phone:
E-mail:		Partnership Role:		
Name:			Age:	
Address:				
City:		State:	ZIP Code:	Phone:
E-mail:		Partnership Role:		
(list any additional persons on a separate sheet)				

1(c): Corporation Applicant

List name and address of all persons of all officers and directors thereof. (List any additional persons on a separate sheet.)

If an aggregate of more than 10% of the stock of such corporation is owned by any one person or his or her nominee, list the name, age, and address of such person.

Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	

1(d): Limited Liability Company Applicant

List for all members. (List any additional persons on a separate page.)

Name:		Age:	
Address:			
Name:		Age:	
Address:			
Name:		Age:	
Address:			

1(e): Business Manager: If the business is to be operated by a local manager or agent, complete below.

Name:		Title:	
Address:			
City:	State:	Zip Code:	
Email Address:		Phone:	

SECTION 2: License Type

Type of License Desired:

Tavern License

SECTION 3: Nature of Business

The nature of business of the applicant.

If a corporation, partnership or limited liability company, the object or objects for which it was formed:

Limited Liability company

SECTION 4: Location Information

Proposed Business Location & Description:

Address: 7922 Oakland DR

Unit/Suite:

Parcel ID: 00017-150-0

Description:

A Nail Spa.

SECTION 5: Attestations

Provide a written statement below regarding the applicant's character, experience, and financial ability to meet the obligations and business undertakings for which the license is to be issued.

Include the length of time said applicant has been in the business of that nature, or, in the case of a corporation, partnership, or limited liability company, the date on which the entity came into existence:

I have a nail spa in 5 years.

I have worked in service area area. for 13 years, even

I have not so I know how to serve clients.

Gross income : 2023 : \$805,000.

Provide a written statement below whether the applicant has, prior to this application, made application for a license to sell beer and wine or spirits and the date, place, and description of such application or applications.

1st time application.

Provide a written statement below that the applicant will not violate any of the ordinances of the City of Portage or laws of the State of Michigan or of the United States in the conduct of its business.

I will not violate any of ordinances of the city of portage or law of the state of Michigan or of the United States in the conduct of its business.

Provide a written statement below that, should any of the information provided in his or her application or any attachment thereto change during the term of this license or any renewal thereof, the applicant will notify the City Clerk in writing within thirty (30) days of such change.

All information provided in my application or any attachment thereto change during the term of this license or any renewal thereof, the applicant will notify the City Clerk in writing with 30 days of change.

SECTION 6: Additional Information

Attach an 8-1/2" x 11" building and grounds layout diagram showing the entire structure, premises, and grounds and, in particular, the specific areas where the license is to be utilized. The plans shall show the relationship of the proposed structure to the surrounding property and land use and shall demonstrate adequate off-street parking, lighting, refuse disposal facilities, and where appropriate, adequate plans for screening and noise control.

SECTION 7: Applicant Statements & Attestations

The Applicant is responsible for being sufficiently familiar with and having a working knowledge of the city ordinance requirements. A copy of Chapter 6 "Alcoholic Liquor" is available on the City of Portage website at www.portagemi.gov.

By signing below, the Applicant acknowledges they are subject to the following *Decision Criteria*:

- 1) The applicant's management experience in the alcohol/liquor business;
- 2) The applicant's general business management experience;
- 3) The applicant's general business reputation;
- 4) The applicant's moral character;
- 5) The applicant's financial status and ability to build and/or operate the proposed facility on which the proposed liquor license is to be located;
- 6) Past criminal convictions of the applicant for crimes involving moral turpitude, violence, or alcoholic beverages;

- 7) The applicant's excessive use of alcoholic beverages;
- 8) The effect that the issuance of a license would have upon the economic development of the surrounding area;
- 9) The effect that the issuance of a license would have on the health, welfare, and safety of the general public;
- 10) The recommendations of the local law enforcement agency, the Department of Community Development and/or the fire department with respect to the proposed facility.
- 11) Whether the applicant has demonstrated the public need or convenience for the issuance of the liquor license for the business facility at the location proposed.
- 12) The uniqueness of the proposed facility when contrasted against other existing or proposed facilities.
- 13) Whether the facility to which the proposed liquor license is to be issued complies, or will comply, with the building, plumbing, electrical, fire prevention, and zoning codes of the city and any other building, plumbing, electrical, fire prevention and zoning statutes and ordinances applicable to the city.
- 14) The effect that the business facility to which the proposed license is to be issued will have upon vehicular and pedestrian traffic in the area.
- 15) The proximity of the proposed business facility to other similarly situated licensed liquor facilities.
- 16) The effect that the business facility to which the proposed license is to be issued will have upon the surrounding neighborhood and/or business establishments.
- 17) The permanence of the establishment in the community as evidenced by the proposed or actual commitments made by the applicant.
- 18) Such other considerations as the council may deem proper.

Execution:

Signed: _____

[Signature]

Date: 10.28.2024

CONIG LE
(Name of entity or individual)

Owner
Title (if applicable):

Acknowledgment:

State of _____)
)SS:
County of _____)

Before me, the undersigned _____ on this day personally appeared to me known/produced the following identification _____; who being duly sworn according to law, acknowledged the foregoing instrument.

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public

My Commission Expires _____

(Notary Seal)



On-Premises Retailer License & Permit Application

Before you begin filling out the attached application, please review this checklist for the applicable forms and documents you will need to submit with your completed application form.

The attached LCC-100a form will automatically calculate fees when opened using Adobe Acrobat Reader. The form's functionality may not work with third-party PDF readers. You may download a free copy of Adobe Acrobat Reader on the Adobe website: <https://get.adobe.com/reader/>

Off-Premises Retailers: If you are applying for a Specially Designated Merchant (SDM) and/or Specially Designated Distributor (SDD) license for off-premises sales of alcoholic liquor only, please use the Off-Premises Retailer License & Permit Application (LCC-100b).

- ☒ Completed On-Premises Retail License & Permit Application (Form LCC-100a, attached)
- ☒ Livescan Fingerprint Form (LCC-105)* (attached)
- ☒ Inspection, License, and Permit Fees

Are you transferring stock or membership interest? If yes, use the License Interest Transfer Application (LCC-101).

- ☐ Corporate Documents (see list below) - Submit for the applicant company, and if the applicant company has multiple levels of ownership structure in which stockholders or members are also companies, submit the applicable documents listed below for any stockholder or member companies to the third tier of ownership - for example: applicant company (tier 1) > stockholder/member (tier 2) > stockholder/member (tier 3).
- ☐ Multi-Tier Organizational Chart - If the applicant company has more than three levels of ownership structure please provide an organizational chart that shows all the levels of ownership to individual people, including trusts.
- ☐ Local Government Authorization (Form LCC-106) - **For a new on-premises license only**
- ☐ Purchase agreement - **For the transfer of ownership of a license**
- ☐ Property document (lease, deed, land contract, etc.)
- ☐ New On-Premises Resort License Questionnaire (LCC-109a) or New On-Premises Redevelopment or Development District License Questionnaire (LCC-109b) - **For a new on-premises Resort, Redevelopment, or Development District license only**

If applicant is a corporation also include (pursuant to R 436.1109):

If any of the stockholders of the applicant are corporations or limited liability companies, also submit a copy of the documents listed below for those companies (except for the Certificate of Authority to Do Business in Michigan, which is required for the applicant only).

- ☐ Report of Stockholders/Member/Partners (Form LCC-301)
- ☐ Copy of Articles of Incorporation filed with the Corporations Division of the Department of Licensing & Regulatory Affairs
- ☐ Current Certificate of Good Standing from the state where incorporated and Certificate of Authority to Do Business in Michigan, if incorporated outside of Michigan.
- ☐ Certified copy of the minutes of a meeting of its board of directors or a statement signed by an officer of the corporation naming the persons authorized by corporate resolution to sign the application and other documents required by the Commission or Part 3 of Form LCC-301.

If applicant is a limited liability company also include (pursuant to R 436.1110):

If any of the members of the applicant are corporations or limited liability companies, also submit a copy of the documents listed below for those companies (except for the Certificate of Authority to Do Business in Michigan, which is required for the applicant only).

- ☐ Report of Stockholders/Member/Partners (Form LCC-301)
- ☐ Copy of Articles of Organization filed with the Corporations Division of the Department of Licensing & Regulatory Affairs
- ☐ Copy of the operating agreement or bylaws of the applicant company
- ☐ Current Certificate of Authority to Do Business in Michigan, if the LLC is a non-Michigan LLC.

- ☐ Statement signed by a manager of the limited liability company or by at least 1 member if management is reserved to the members naming the person authorized to sign the application and other documents required by the Commission or Part 3 of Form LCC-301.



On-Premises Retailer License & Permit Application (LCC-100a)

Part 1 - Applicant Information

Individuals, please state your legal name. Corporations or Limited Liability Companies, please state your name as it is filed with the State of Michigan Corporation Division.

Applicant name(s): CONG C LE		
Address to be licensed: 7922 OAKLAND DR		
City: PORTAGE	Zip Code: 49024	
City/township/village where license will be issued: PORTAGE		County: KALAMAZOO
Federal Employer Identification Number (FEIN): 88-4194597		

1. Are you requesting a new license? ☒ Yes ☐ No
2. Are you applying ONLY for a new permit or permission? ☒ Yes ☐ No
3. Are you buying an existing license? ☐ Yes ☒ No
4. Are you transferring the classification of an existing on premises license? ☐ Yes ☒ No
5. Are you modifying the size of the licensed premises? ☐ Yes ☒ No
If Yes, specify: ☐ Adding Space ☐ Dropping Space ☐ Redefining Licensed Premises
6. Are you transferring the location of an existing license? ☐ Yes ☒ No
7. Is this license being transferred as the result of a default or court action? ☐ Yes ☒ No
8. Do you intend to use this license actively? ☒ Yes ☐ No

Leave Blank - MLCC Use Only

Part 2 - License Transfer Information (If Applicable)

If transferring ownership of a license ONLY and not transferring the location of a license, fill out only the name of the current licensee(s)

Current licensee(s):		
Current licensed address:		
City:	Zip Code:	
City/township/village where license is issued:		County:

Part 3 - Licenses, Permits, and Permissions

Applicants for on premises licenses, permits, and permissions (e.g. restaurants, hotels, bars, etc.) must complete the attached Schedule A and return it with this application. Transfer the fee calculations from the Schedule A to Part 4 below.

Part 4 - Inspection, License, and Permit Fees - Make checks payable to State of Michigan

Inspection Fees - Pursuant to MCL 436.1529(4) a nonrefundable inspection fee of \$70.00 shall be paid to the Commission by an applicant or licensee at the time of filing of a request for a new license or permit, a request to transfer ownership or location of a license, a request to increase or decrease the size of the licensed premises, or a request to add a bar. Requests for a new permit in conjunction with a request for a new license or transfer of an existing license do not require an additional inspection fee.

License and Permit Fees - Pursuant to MCL 436.1525(1), license and permit fees shall be paid to the Commission for a request for a new license or permit or to transfer ownership or location of an existing license.

Inspection Fees: 70. ⁰⁰	License & Permit Fees: 410. ⁰⁰	TOTAL FEES: 480. ⁰⁰
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Schedule A - Licenses, Permits, & Permissions

Applicant name: CONG LE

Fee Code
MLCC Use
Only

On-Premises License Type:

Base Fee:

Fee Code
MLCC Use
Only

New Transfer

- ☐ ☐ B-Hotel License \$600.00
Number of guest rooms: _____
- ☐ ☐ A-Hotel License \$250.00
Number of guest rooms: _____
- ☐ ☐ Class C License \$600.00
- ☒ ☐ Tavern License \$250.00
- ☐ ☐ Resort License Upon Licensure
- ☐ ☐ DDA/Redevelopment License Upon Licensure
- ☐ ☐ Brewpub License \$100.00
- ☐ ☐ G-1 License \$1,000.00
- ☐ ☐ G-2 License \$500.00
- ☐ ☐ Aircraft License \$600.00
- ☐ ☐ Watercraft License \$100.00
- ☐ ☐ Train License \$100.00
- ☐ ☐ Continuing Care Retirement Center License \$600.00
- ☐ MCL 436.1545(1)(b)(i) ☐ MCL 436.1545(1)(b)(ii)

B-Hotel or Class C Licenses Only:

- ☐ ☐ Additional Bar(s)
Number of Additional Bars: _____

B-Hotel or Class C licenses allow licensees to have one (1) bar within the licensed premises. A \$350.00 licensing fee is required for each additional bar over the one (1) bar initially issued with the license.

Licenses, permits, and permissions selected on this form will be investigated as part of your request. Please verify your information prior to submitting your application, as some licenses, permits, or permissions cannot be added to your request once the application has been sent out for investigation by the Enforcement Division.

Inspection, License, Permit, & Permission Fee Calculation

Number of Licenses: 1 x \$70.00 Inspection Fee

Total Inspection Fee(s): 70.00

Total License Fee(s): 250.00

Total Permit Fee(s): 160.00

TOTAL FEES DUE: 480.00

Please note that requests to transfer SDD licenses will require the payment of additional fees based on the seller's previous calendar year's sales. These fees will be determined prior to issuance of the license to the applicant.

Make checks payable to **State of Michigan**

On-Premises Permits:

Base Fee:

- ☒ Sunday Sales Permit (AM)* \$160.00
- ☐ Sunday Sales Permit (PM)**
- ☐ Catering Permit \$100.00
- ☐ Social District Permit \$250.00
- ☐ Banquet Facility Permit - Complete Form LCC-200

A Banquet Facility Permit is an extension of the license at a different location. It may have its own permits and permissions.

- ☐ Outdoor Service No charge
- ☐ Dance Permit No charge
- ☐ Entertainment Permit No charge
- ☐ Extended Hours Permit: No charge
- ☐ Dance ☐ Entertainment Days/Hours: _____
- ☐ Specific Purpose Permit: No charge

Activity requested: _____

Days/Hours requested: _____

- ☐ Living Quarters Permit No charge
- ☐ Topless Activity Permit No charge
- ☐ Off-Premises Storage No charge
- ☐ Direct Connection(s) No charge
- ☐ On-Premises Public Swimming Pool Permit - Complete Form LCC-209

Pursuant to MCL 436.1533, on-premises retailers may be issued a Specially Designated Merchant (SDM) license or a Specially Designated Distributor (SDD) license at the same location in conjunction with the on-premises license under certain circumstances.

Off-Premises License Type:

Base Fee:

Fee Code
MLCC Use
Only

New Transfer

- ☐ ☐ SDM License \$100.00
- ☐ ☐ SDD License \$150.00

Off Premises Permits:

Base Fee:

- ☐ SDD Sunday Sales Permit (PM)** \$22.50
For Spirit Products
- ☐ SDM Sunday Sales Permit (PM)** \$15.00
For Mixed Spirit Drink Products
- ☐ Motor Vehicle Fuel Pumps No charge

*Sunday Sales Permit (AM) allows the sale of spirits, mixed spirit drink, beer, and wine on Sunday mornings between 7:00am and 12:00 noon, if allowed by the local unit of government.

**Sunday Sales Permit (PM) allows the sale of spirits and mixed spirit drink on Sunday afternoons and evenings between 12:00 noon and 2:00am (Monday morning), if allowed by the local unit of government. No Sunday Sales Permit (PM) is required for the sale of beer and wine on Sunday after 12:00 noon. The Sunday Sales Permit (PM) fee is 15% of the fee for the license that allows the sale of spirits or mixed spirit drink. Additional bar fees and hotel room fees are also calculated as part of the permit fee. A separate Sunday Sales Permit (PM) is required for each license that will sell spirits or mixed spirit drink on Sunday after 12:00 noon.

Part 5a - Information on Individual Applicant, Stockholder, Member, or Limited Partner

Each individual, stockholder, member, or partner must complete Part 5a, 5b, and 5c. If a stockholder or member of an applicant company is a corporation or limited liability company, complete Part 5a and 5c and submit a completed Form LCC-301. For applications with multiple individuals, stockholders, members, or partners - each person or entity must complete a separate copy of this page.

Name: CONG C LE			
Home address: 245 DEPOT CIR			
City: GALESBURG		State: MI	Zip Code: 49053
Business Phone:	Cell Phone:	Email:	
Have you ever been licensed by the Michigan Liquor Control Commission (MLCC) or do you currently hold an interest in any other licenses issued by the MLCC? If Yes , please list business ID numbers below. If you hold interest in 2 or more locations under the same name, please also write "chain" below. Pursuant to MCL 436.1603, a retailer licensee <u>may not</u> hold interest in a manufacturer or wholesaler licensee. ☐ Yes ☒ No			
Do you hold 10% or more interest in the applicant entity? ☒ Yes ☐ No			
If you answered "no" to the first question and "yes" to the second question, you must submit fingerprints and undergo an investigation by the MLCC. Please see the attached instructions for submitting fingerprints to the MLCC. You must submit a copy of the completed and endorsed <u>Livescan Fingerprint Background Request (LCC-105)</u> with your application.			

Part 5b - Personal Information (Individuals) - Must be at least 21 years of age, pursuant to administrative rule R 436.1105(1)(a).

Date of Birth:	Social Security Number:	Driver's License Number:	
Are you a citizen of the United States of America? ☒ Yes ☐ No			
Have you ever legally changed your name? ☐ Yes ☒ No			
If you answered "yes", please list your prior name(s) (including maiden):			
Spouse's full name (if currently married): PHUONG N.H. LE			
Spouse's date of birth:	Is your spouse a citizen of the United States of America? ☒ Yes ☐ No		
Do you or your spouse hold any position, either by appointment or election, which involves the duty to enforce any penal law of the United States of America, or the penal laws of the State of Michigan, or any penal ordinance or resolution of any municipal subdivisions of the State of Michigan? ☐ Yes ☒ No			
Does your spouse hold a retailer, manufacturer, or wholesaler license issued by the MLCC? ☐ Yes ☒ No			
Full disclosure of criminal history must be reported, regardless of how long ago the crime occurred. State of Michigan and federal criminal background records will be checked to verify criminal history. Failure to report criminal history charges and/or local ordinance violations may result in the denial of the application. Criminal history includes felonies, misdemeanors, and local ordinance violations in Michigan or any other state for which the applicant or applicant's spouse was found guilty, pled guilty, or pled no contest.			
Have you ever been found guilty, pled guilty, or pled no contest to a criminal charge or any local ordinance violations? If Yes , list below (attach additional pages if necessary): ☐ Yes ☒ No			
Date	City/State	Charge	Disposition
Has your spouse ever been found guilty, pled guilty, or pled no contest to a criminal charge or any local ordinance violations? If Yes , list below (attach additional pages if necessary): ☐ Yes ☒ No			
Date	City/State	Charge	Disposition

Part 5c - Signature

I certify that the information contained in this form is true and accurate to the best of my knowledge and belief. I agree to comply with all requirements of the Michigan Liquor Control Code and Administrative Rules. I also understand that providing **false** or **fraudulent** information is a violation of the Liquor Control Code pursuant to MCL 436.2003. (This form must be signed by the person whose information it contains).

CONG C LE

Print Name

Signature

09/17/2024

Date

Part 6 - Contact Information For This Application

What is your preferred method of contact?		☐ Phone	☐ Mail	☒ Email	☐ Fax
What is your preferred method for receiving a Commission Order?		☐ Mail	☒ Email	☐ Fax	
Contact name: CONG C LE	Relationship: MYSELF				
Mailing address: 245 DEPOT CIR					
City: GALESBURG		State: MI		Zip Code: 49053	
Phone: [REDACTED]	Fax number:		Email: [REDACTED]		

Part 7 - Attorney Information (If You Have An Attorney Representing You For This Application)

Attorney name:		Member Number: P-	
Attorney address:			
Phone:	Fax number:	Email:	
Would you prefer that we contact your attorney for all licensing matters related to this application?		☐ Yes ☐ No	
Would you prefer any notices or closing packages be sent directly to your attorney?		☐ Yes ☐ No	

Part 8 - Signature of Applicant

Be advised that the information contained in this application will only be used for this request. This section will need to be completed for each subsequent request you make with this office.

Notice: When purchasing a license, a buyer can be held liable for tax debts incurred by the previous owner. Prior to committing to the purchase of any license or establishment, the buyer should request a tax clearance certificate from the seller that indicates that all taxes have been paid up to the date of issuance. Obtaining sound professional assistance from an attorney or accountant can be helpful to identify and avoid any pitfalls and hidden liabilities when buying even a portion of a business. Sellers can make a request for the tax clearance certificate through the Michigan Department of Treasury.

Under administrative rule R 436.1003, the licensee shall comply with all state and local building, plumbing, zoning, sanitation, and health laws, rules, and ordinances as determined by the state and local law enforcements officials who have jurisdiction over the licensee. Approval of this application by the Michigan Liquor Control Commission does not waive any of these requirements. The licensee must obtain all other required state and local licenses, permits, and approvals for this business before using this license for the sale of alcoholic liquor on the licensed premises.

I certify that the information contained in this form is true and accurate to the best of my knowledge and belief. I agree to comply with all requirements of the Michigan Liquor Control Code and Administrative Rules. I also understand that providing **false** or **fraudulent** information is a violation of the Liquor Control Code pursuant to MCL 436.2003.

The person signing this form has demonstrated that they have authorization to do so and have attached appropriate documentation as proof.

CONG C LE- OWNER

Print Name of Applicant & Title



Signature of Applicant

09/17/2024

Date

Please return this completed form along with corresponding documents and fees to:

Michigan Liquor Control Commission

Mailing address: P.O. Box 30005, Lansing, MI 48909

Overnight deliveries: 2407 N. Grand River Avenue, Lansing, MI 48906

Fax to: 517-284-8557

FIRST ASSIGNMENT AND MODIFICATION OF LEASE

THIS FIRST ASSIGNMENT AND MODIFICATION OF LEASE is made effective this ^{29th} day of October 2022 (the "Effective Date"), to assign and modify a certain Lease Agreement by and between Oakland Group I, LLC, a Michigan limited liability company ("Landlord"), and Signature Nails, LLC, a Michigan limited liability company ("Tenant"), dba Vina Nails of Portage, which is dated December 6, 2011 (the "Lease"), to Viva Nail Spa, Inc., a Michigan corporation ("Sub-Tenant"), as follows:

WHEREAS, Tenant has leased the commercial retail property commonly known as 7922 Oakland Drive, Portage, Michigan (the "Premises") under the attached Lease, and operates a nail salon business from the Premises; and

WHEREAS, Tenant now wishes to sell the business to Sub-Tenant; and

WHEREAS, Sub-Tenant wishes to acquire Tenant's business and assume Tenant's responsibilities under the Lease to keep the business operating within the Premises.

NOW THEREFORE, it is mutually agreed that the Lease shall be assigned under the following terms and conditions:

1. Confirmation of Terms. Sub-Tenant has read the entire Lease Agreement, as attached hereto, and agrees to all of the terms contained therein. As of the Effective Date of this Assignment Agreement, Sub-Tenant shall become primarily and fully responsible for all of the terms and condition in the Lease, without off-set of rent or any other exception, except as specifically provided for herein. Sub-Tenant further acknowledges that it has inspected the Premises and accepts such Premises in its current "as is" condition, with all faults. Landlord makes no representations as to the condition of the Premises, or as to the local zoning ordinances relating to its current use of the Premises, or as to any local, state or Federal building codes governing such activities.

2. Assignment. Tenant and Sub-Tenant acknowledge that Sub-Tenant is primarily responsible all of Tenant's responsibilities under the Lease, including all terms and conditions contained therein. Sub-Tenant further agrees to execute with this Assignment Agreement, the attached Personal Guarantee of Lease, as an additional inducement for Landlord to complete this assignment. Notwithstanding anything contained herein, Tenant acknowledges that it will remain equally and fully responsible for all of the same terms and conditions provided under the Lease and in the event of a default by Sub-Tenant, Landlord may, at its sole option, seek from Tenant and/or Sub-Tenant any cure or remedy available under Michigan Law, including, but not limited to, accelerated rent, damages, penalties, interest, legal fees, court costs, collection fees, brokerage fees, and other similar costs. Landlord agrees to provide Tenant with copies of all communications to Sub-Tenant regarding Sub-Tenant's late payment of rent and any other defaults under the Lease.

3. Renewal Option. The Term of the Lease shall not change and shall expire on December 31, 2026, unless terminated sooner as provided for therein. Providing Sub-Tenant does not default on any of the terms of the Lease or this First Assignment, Landlord grants to Sub-Tenant the right to re-lease the Premises for an additional sixty (60) months under the same terms and conditions in the Lease, except that the Base Rent (defined in the Lease) shall continue to adjust annually by a factor of four percent (4%) over the previous year's Base Rent, which shall automatically occur on each anniversary of the Lease.

4. Disputes. Sub-Tenant agrees that any disputes between Sub-Tenant and Landlord shall be heard in a court of competent jurisdiction in Kalamazoo County. In such event, the parties agree to waive their right to a jury trial. The prevailing party may also collect its attorney fees and court costs as a result of any such action.

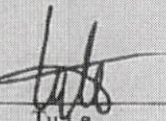
5. Other Terms. Notwithstanding the foregoing, the balance of the non-amended terms and conditions of the Lease shall continue to stay in effect through the expiration of the Term (or renewal term if exercised). Any conflicts between the terms of the Lease and this Assignment Agreement shall be controlled by this Assignment Agreement.

####

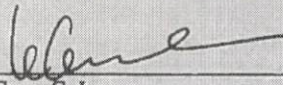
THIS FIRST ASSIGNMENT AND MODIFICATION OF LEASE is entered into as of the Effective Date first captioned above, including the attachments referenced below.

FOR TENANT: *Signature Nails, LLC*

FOR SUB-TENANT: *Viva Nail Spa, Inc.*

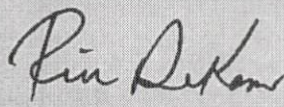
By: 
Tu Le

Its: Member

By: 
Cong C. Le

Its: President

FOR LANDLORD: *Oakland Group I, LLC*

By: 
Rick DeKam

Its: Member

Attachments:

- Lease
- Personal Guarantee

LEASE GUARANTY

As an inducement for Oakland Group I, LLC, a Michigan limited liability company ("Landlord"), to enter into the attached **FIRST ASSIGNMENT AND MODIFICATION OF LEASE** with Viva Nail Spa, Inc, a Michigan corporation ("Sub-Tenant"), of even date herewith, the undersigned, jointly and severally, unconditionally guarantee payment to Landlord when due, or upon demand thereafter, without deduction for any claim of offset or counterclaim of the Sub-Tenant, the full amount of all rentals and other obligations or indebtedness due the Landlord from the Sub-Tenant under the terms of the Lease throughout its initial Term and any renewal terms, together with all expenses of collection, attorney fees and court costs incurred by Landlord by reason of default of the Sub-Tenant. The undersigned also unconditionally guarantee the Sub-Tenant's performance of each and every covenant under the terms of the Lease throughout its initial Term and any renewal terms.

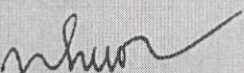
The undersigned, without affecting their liability hereunder in any respect, consent to and waive notice of all changes of terms of the Lease, any extension or renewal of the Lease, any assignment of the Lease, the extension of time to pay, the release of the whole or any part of the Sub-Tenant's obligations by Landlord, the settlement or compromise of differences, the acceptance or release of security, the acceptance of notes or any other form of obligation for the Sub-Tenant's indebtedness, and the demand, protest and notice of protest of such instruments or their endorsements. The undersigned also consent to and waive notice of any arrangements or settlements made in or out of court in the event of receivership, liquidation, readjustment, bankruptcy, reorganization, arrangement or assignment for the benefit of creditors of the Sub-Tenant and anything whatsoever, whether or not herein specified, which may be done or waived by or between the Landlord and the Sub-Tenant and any other person whose claims against the Sub-Tenant have been or shall be assigned or transferred to the Landlord. The obligation of the undersigned is a primary and unconditional obligation and covers all indebtedness and liabilities of the Sub-Tenant to the Landlord arising under the terms of the Lease. This guaranty shall be enforceable before or after proceeding against the Sub-Tenant or against any security held by the Landlord and shall be effective regardless of the solvency or insolvency of the Sub-Tenant at any time, or the extension or modification of the Lease or the indebtedness or obligations of the Sub-Tenant to the Landlord by operation of law or otherwise.

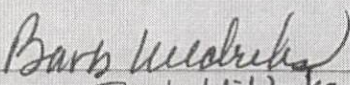
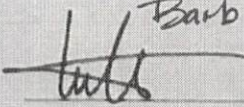
All liabilities of Sub-Tenant and of the undersigned shall mature immediately upon the insolvency of the Sub-Tenant or the undersigned, the commission of an act of bankruptcy by the Sub-Tenant or the undersigned, the appointment of a receiver for the Sub-Tenant or the undersigned for any of the property of Sub-Tenant or the undersigned, the filing of a voluntary or involuntary petition in bankruptcy, reorganization or arrangement by or against Sub-Tenant or the undersigned, or the making of an assignment for the benefit of creditors or the calling of a meeting of creditors by the Sub-Tenant or the undersigned. The Landlord's records showing the account between the Landlord and the Sub-Tenant shall be admissible evidence in any action or proceeding involving this guaranty, and such record shall be prima facie proof of the items set forth therein. This guaranty shall for all purposes be deemed to be made in and shall be governed by the laws of the state of Michigan, without reference to conflict of law principles. This guaranty shall be binding upon the undersigned and their respective legal representatives and assigns and shall inure to the Landlord's benefit and to the benefit of its successors and assigns.

APPROVED AND AGREED to this 29th day of October, 2022.

Witnesses:

By: 
Cong C. Le

By: 
Phuong Nguyen Hanh Le


Barb Uildriks

TU LE

LARA Corporations
Online Filing System
Department of Licensing and Regulatory Affairs

Form Revision Date 02/2017

ARTICLES OF ORGANIZATION
For use by DOMESTIC LIMITED LIABILITY COMPANY

Pursuant to the provisions of Act 23, Public Acts of 1993, the undersigned executes the following Articles:

Article I

The name of the limited liability company is:

VIVA NAIL SPA LLC

Article II

Unless the articles of organization otherwise provide, all limited liability companies formed pursuant to 1993 PA 23 have the purpose of engaging in any activity within the purposes for which a limited liability company may be formed under the Limited Liability Company Act of Michigan. You may provide a more specific purpose:

Nail Spa

Article III

The duration of the limited liability company if other than perpetual is:

PERPETUAL

Article IV

The street address of the registered office of the limited liability company and the name of the resident agent at the registered office (P.O. Boxes are not acceptable):

1. Agent Name: CONG C LE
2. Street Address: 4315 W MAIN ST
Apt/Suite/Other: SUITE A
City: KALAMAZOO
State: MI Zip Code: 49006
3. Registered Office Mailing Address:
P.O. Box or Street Address: 4315 W MAIN ST
Apt/Suite/Other: SUITE A
City: KALAMAZOO
State: MI Zip Code: 49006

Signed this 20th Day of October, 2022 by the organizer(s):

Signature	Title	Title if "Other" was selected
CONG C LE	Organizer	

By selecting ACCEPT, I hereby acknowledge that this electronic document is being signed in accordance with the Act. I further certify that to the best of my knowledge the information provided is true, accurate, and in compliance with the Act.

☐ Decline ☒ Accept

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
FILING ENDORSEMENT

This is to Certify that the ARTICLES OF ORGANIZATION

for

VIVA NAIL SPA LLC

ID Number: 802932489

received by electronic transmission on October 20, 2022 ***, is hereby endorsed.***

Filed on October 21, 2022 ***, by the Administrator.***

The document is effective on the date filed, unless a subsequent effective date within 90 days after received date is stated in the document.



In testimony whereof, I have hereunto set my hand and affixed the Seal of the Department, in the City of Lansing, this 21st day of October, 2022.

Linda Clegg

Linda Clegg, Director

Corporations, Securities & Commercial Licensing Bureau

SECTION 1: Applicant Information

(complete the corresponding section that applies to your entity)

1(a): Individual Applicant			
Name: Stubble and Stache, LLC		Age:	
Address: 161 W. Centre Ave.			
City: Portage	State: MI	ZIP Code: 49024	Phone: [REDACTED]
E-mail: stubbleandstachebarbershop@gmail.com		Entity Website (if applicable): stubblestache.com	

1(b): Partnership Applicant			
List the name, age, and address of all persons entitled to share in the profits thereof.			
The general partner shall sign the application and all other documents required in connection with the application.			
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
(list any additional persons on a separate sheet)			



1(c): Corporation Applicant

List name and address of all persons of all officers and directors thereof. (List any additional persons on a separate sheet.)

If an aggregate of more than 10% of the stock of such corporation is owned by any one person or his or her nominee, list the name, age, and address of such person.

Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	

1(d): Limited Liability Company Applicant

List for all members. (List any additional persons on a separate page.)

Name: Carole Ann Miller Cormier		Age: 63	
Address: 1959 Brighton Ln, Portage, MI 49024			
Name:		Age:	
Address:			
Name:		Age:	
Address:			

1(e): Business Manager: If the business is to be operated by a local manager or agent, complete below.

Name:		Title:	
Address:			
City:	State:	Zip Code:	
Email Address:		Phone:	

SECTION 2: License Type

Type of License Desired:

We are respectfully requesting consideration for a Class C liquor license for our new establishment, Stubble and Stache, a modern-day, classic barbershop.

SECTION 3: Nature of Business

The nature of business of the applicant.

If a corporation, partnership or limited liability company, the object or objects for which it was formed:

Stubble and Stache is registered as a single-member LLC, with all necessary Articles of Organization properly established to reflect this designation. Our nature of business combines high-quality grooming services with a sophisticated bourbon and whiskey lounge. We offer a modern take on a classic barbershop, providing services such as haircuts, shaves, massage therapy, facials, body waxing, and a curated boutique for men. Our mission is to create a refined and welcoming environment that caters to the grooming and wellness needs of our clientele, while also offering a unique social experience through our premium spirits selection.

SECTION 4: Location Information

Proposed Business Location & Description:

Address: 161 W. Centre Ave, Portage 49002

Unit/Suite:

Parcel ID:

Description: The property at 161 W. Centre Ave., Portage, MI 49002, is a commercial building located within the City of Portage's City Center, a key area of development focus for the City. It features a spacious interior suitable for various business operations, with high visibility, easy accessibility, and ample parking available for customers and staff. The building is well maintained and complies with local zoning regulations, making it an ideal location for Stubble and Stache.

SECTION 5: Attestations

Provide a written statement below regarding the applicant's character, experience, and financial ability to meet the obligations and business undertakings for which the license is to be issued.

Include the length of time said applicant has been in the business of that nature, or, in the case of a corporation, partnership, or limited liability company, the date on which the entity came into existence:

As a successful entrepreneur and business owner, Carole Cormier has over 15 years of experience operating A'vie, a day spa, in Portage, MI, which is known for a strong reputation for delivering high-quality services and creating a welcoming, luxurious environment for our clients.

She is a proud graduate of Western Michigan University, holding a business degree in Computer Information Systems. With over 30 years of professional experience, she has worked at esteemed institutions such as First National Bank, First of America, and National City, and have been directly responsible for high-profile projects at leading organizations, including Pfizer, Stryker, Mann+Hummel, Meijer, and the University of Michigan.

She is known for her dedication to professionalism, integrity, and the ability to manage and grow successful businesses. Her financial ability to support Stubble and Stache comes from years of prudent business management and a well-established history of profitable operations. With her extensive experience and financial stability, she is well-prepared to develop Stubble and Stache into a thriving establishment that will contribute positively to the City of Portage.

Provide a written statement below whether the applicant has, prior to this application, made application for a license to sell beer and wine or spirits and the date, place, and description of such application or applications.

This is the first application made by the applicant.

Provide a written statement below that the applicant will not violate any of the ordinances of the City of Portage or laws of the State of Michigan or of the United States in the conduct of its business.

Carole Cormier is committed to fully adhering to all ordinances of the City of Portage and the laws of the State of Michigan. She will ensure that Stubble and Stache operates in strict compliance with all applicable regulations, including those governing the sale and service of alcohol. Her dedication to upholding these laws reflects respect for the community, her responsibility as a business owner, and her commitment to maintaining the integrity and safety of the establishment.

Provide a written statement below that, should any of the information provided in his or her application or any attachment thereto change during the term of this license or any renewal thereof, the applicant will notify the City Clerk in writing within thirty (30) days of such change.

I, Carole Cormier, affirm that if any of the information provided in this application or its attachments changes during the term of this license or any subsequent renewal, she will notify the City Clerk in writing within 30 days of such change. She is committed to maintaining transparent and timely communication with the City of Portage to ensure full compliance with all requirements.

SECTION 6: Additional Information

Attach an 8-1/2" x 11" building and grounds layout diagram showing the entire structure, premises, and grounds and, in particular, the specific areas where the license is to be utilized. The plans shall show the relationship of the proposed structure to the surrounding property and land use and shall demonstrate adequate off-street parking, lighting, refuse disposal facilities, and where appropriate, adequate plans for screening and noise control.

See Attached.

SECTION 7: Applicant Statements & Attestations

The Applicant is responsible for being sufficiently familiar with and having a working knowledge of the city ordinance requirements. A copy of Chapter 6 "Alcoholic Liquor" is available on the City of Portage website at www.portagemi.gov.

By signing below, the Applicant acknowledges they are subject to the following *Decision Criteria*:

- 1) The applicant's management experience in the alcohol/liquor business;
- 2) The applicant's general business management experience;
- 3) The applicant's general business reputation;
- 4) The applicant's moral character;
- 5) The applicant's financial status and ability to build and/or operate the proposed facility on which the proposed liquor license is to be located;
- 6) Past criminal convictions of the applicant for crimes involving moral turpitude, violence, or alcoholic beverages;

- 7) The applicant's excessive use of alcoholic beverages;
- 8) The effect that the issuance of a license would have upon the economic development of the surrounding area;
- 9) The effect that the issuance of a license would have on the health, welfare, and safety of the general public;
- 10) The recommendations of the local law enforcement agency, the Department of Community Development and/or the fire department with respect to the proposed facility.
- 11) Whether the applicant has demonstrated the public need or convenience for the issuance of the liquor license for the business facility at the location proposed.
- 12) The uniqueness of the proposed facility when contrasted against other existing or proposed facilities.
- 13) Whether the facility to which the proposed liquor license is to be issued complies, or will comply, with the building, plumbing, electrical, fire prevention, and zoning codes of the city and any other building, plumbing, electrical, fire prevention and zoning statutes and ordinances applicable to the city.
- 14) The effect that the business facility to which the proposed license is to be issued will have upon vehicular and pedestrian traffic in the area.
- 15) The proximity of the proposed business facility to other similarly situated licensed liquor facilities.
- 16) The effect that the business facility to which the proposed license is to be issued will have upon the surrounding neighborhood and/or business establishments.
- 17) The permanence of the establishment in the community as evidenced by the proposed or actual commitments made by the applicant.
- 18) Such other considerations as the council may deem proper.

Execution:

Signed:

Carole Ann Miller Cormier

Carole Ann Miller Cormier

(Name of entity or individual)

Date:

November 15, 2024

Title (if applicable):

Acknowledgment:

State of Michigan)
)SS:
County of Kalamazoo)

Before me, the undersigned Carole Ann Miller Cormier on this day personally appeared to me known/produced the following identification driver's license; who being duly sworn according to law, acknowledged the foregoing instrument.

Subscribed and sworn to before me this 18 day of November, 2024.

[Signature]

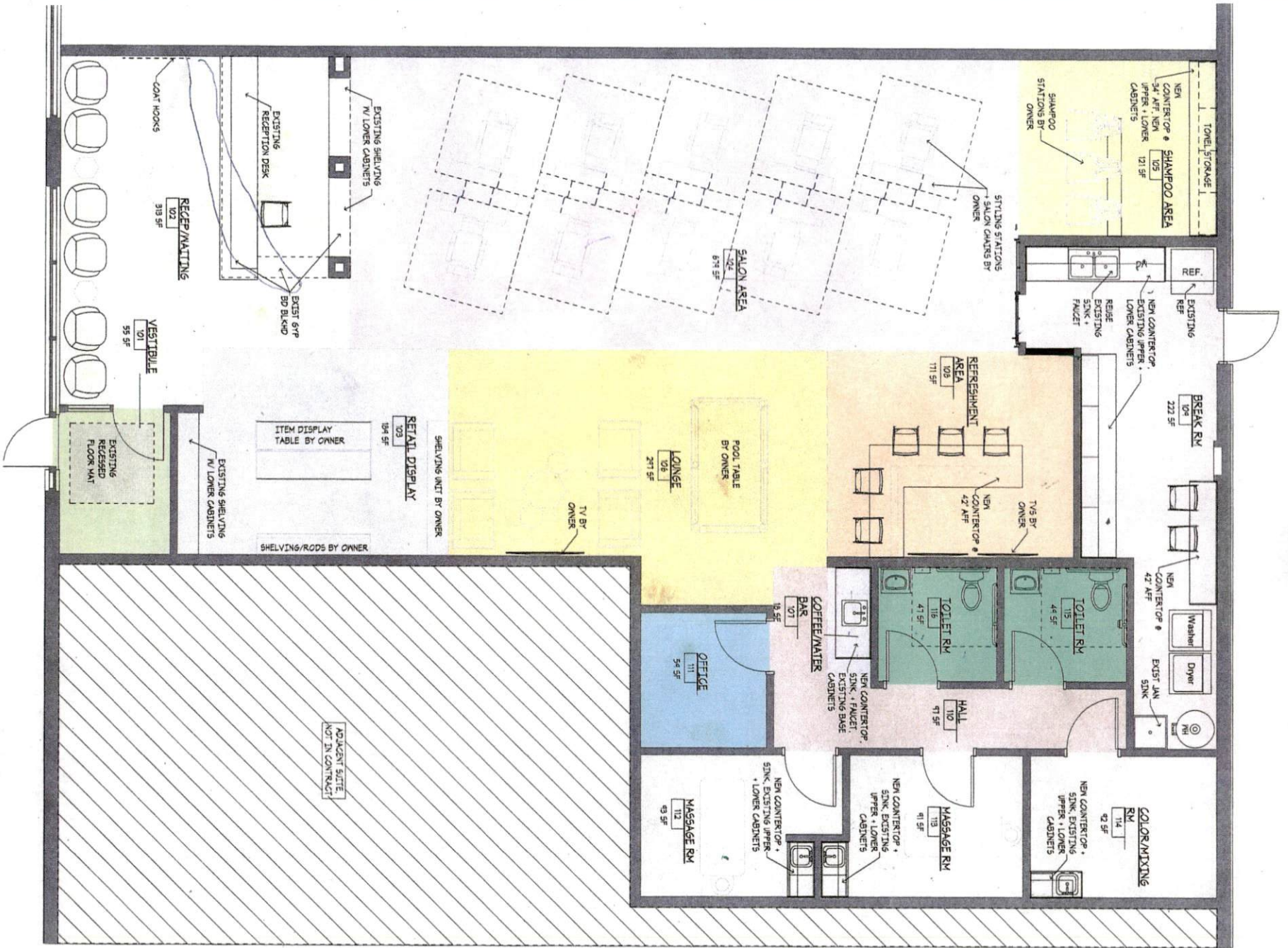
Notary Public

My Commission Expires 08/03/2029

(Notary Seal)

MEAGAN STIVER
Notary Public, Kalamazoo County, MI
My Commission Expires 08/03/2029
Acting in the county of Kalamazoo

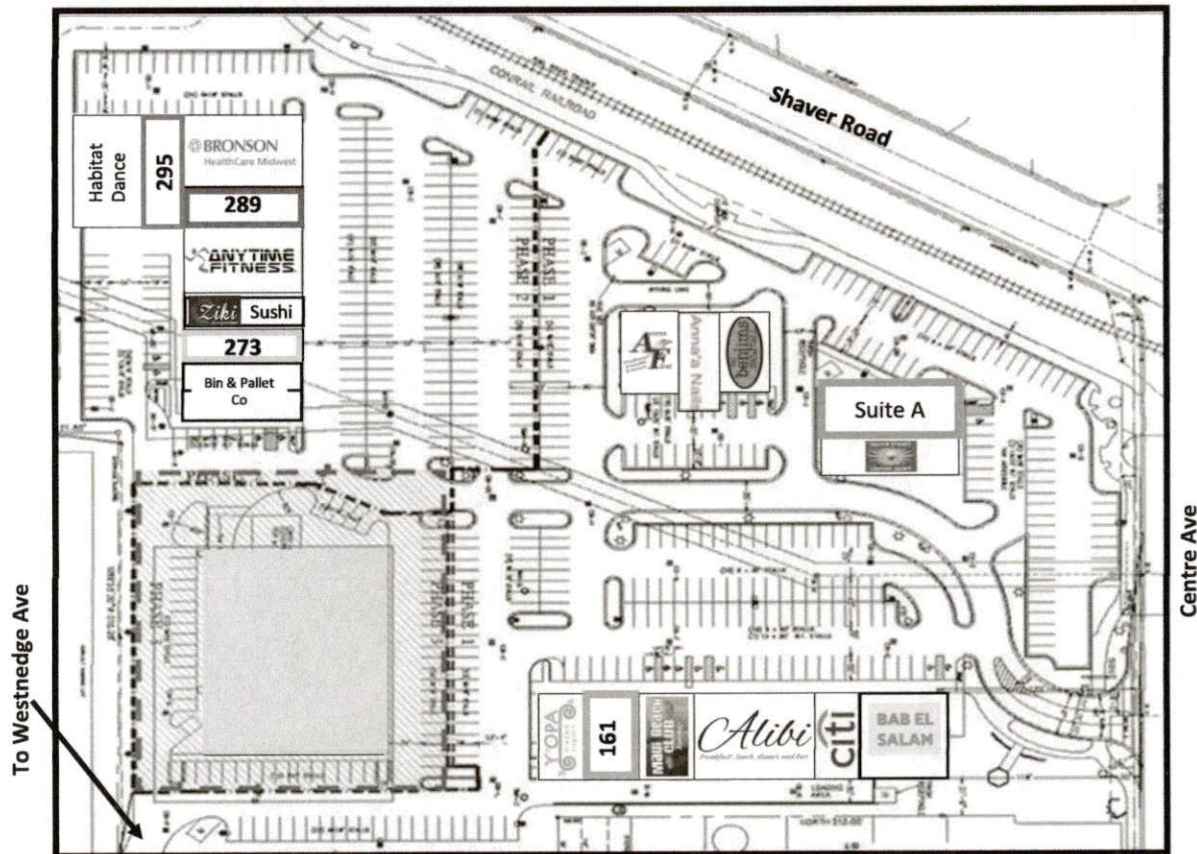




DESIGN PLAN
SCALE 1/4" = 1'-0"

129 W. Centre Avenue

Portage, MI



STATS

Suite 161
Suite 273
Suite 289
Suite 295
Suite A

SIZE

2,800 SF
1,800 SF
1,833 SF
1,800 SF
3,193 SF

RENT

\$14.00/SF NNN
\$14.00/SF NNN
\$14.00/SF NNN
\$14.00/SF NNN
\$20.00/SF NNN

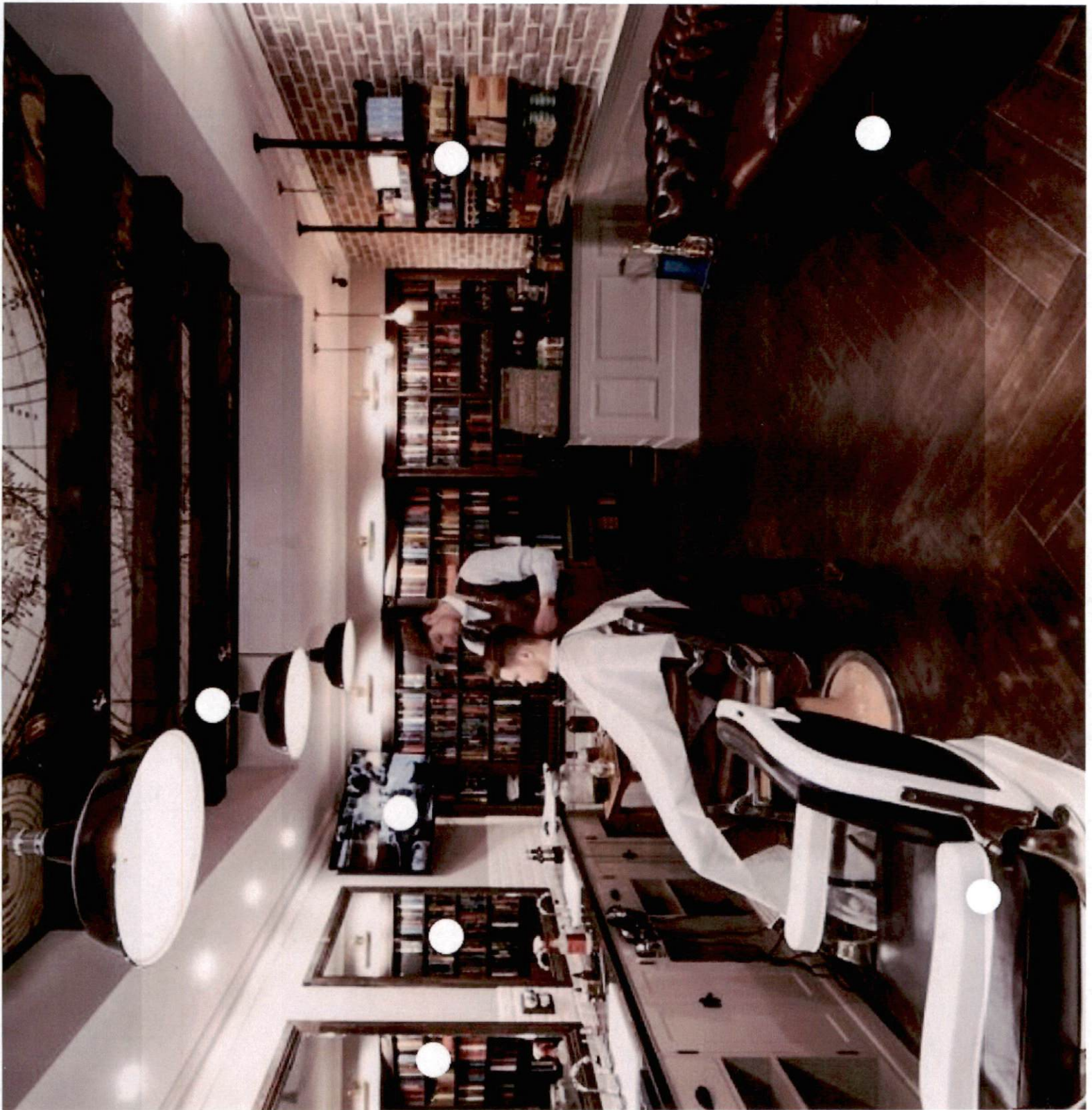
PLAZACORP
Developing Reimagined Places

200 West Michigan Avenue, Suite 201
Kalamazoo, MI 49007
www.plazacorp.net

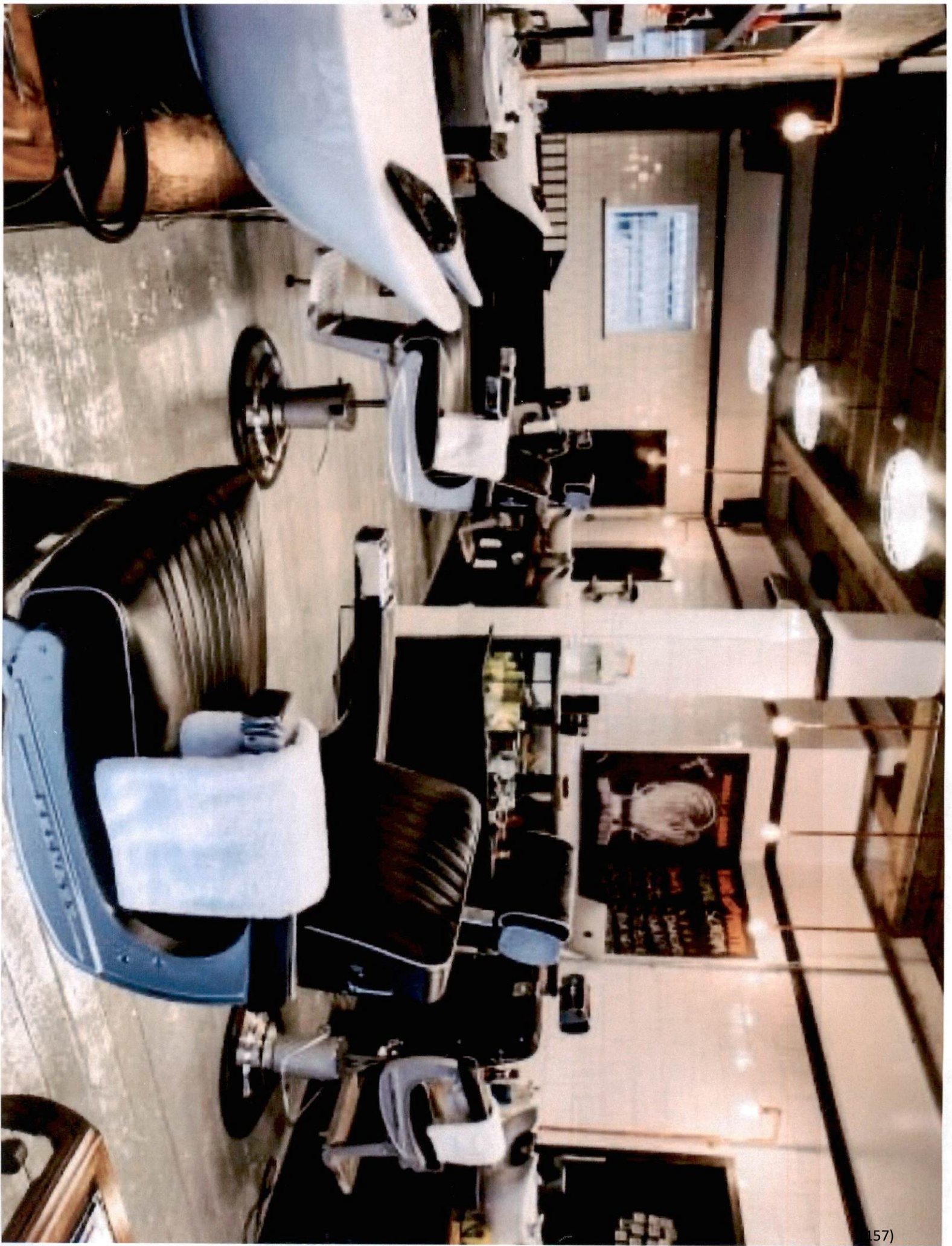
Leasing Contact

Connor Sampson

269.217.6486



Inspiration Photos



Carole Cormier
Stubble and Stache, LLC
161 W. Centre Avenue
Portage, MI 49002
[REDACTED]



November 15, 2024

City Clerk
City of Portage
7900 South Westnedge Avenue
Portage, MI 49002

Dear City Clerk, City Mayor, City Manager, and City Council Members,

I am writing to respectfully request consideration for a Class C liquor license for our new establishment, Stubble and Stache, to be located at 161 W. Centre Ave., Portage. We hope to open in Dec. 2024.

Let me first introduce you to Stubble and Stache....

Stubble and Stache is a modern-day classic barbershop in Portage, MI, offering a blend of traditional grooming services and contemporary style. Inspired by the timeless elegance of the 1920s, our barbershop delivers expert haircuts, beard trims, shaves, and more, all while using high-quality, clean products from brands like Aveda. We go beyond grooming by providing additional services such as massages and men's day spa treatments, creating a relaxing retreat for today's gentleman.

At Stubble and Stache, we are committed to bringing back the art of barbering with a fresh twist, providing an experience that combines skilled craftsmanship, personalized service, and an inviting atmosphere. Whether you're looking for a quick trim, a complete grooming experience, or a place to unwind, we invite you to discover Stubble and Stache.

For a more comprehensive understanding of our brand and the unique experience we aim to offer, we kindly invite you to visit our website at **stubblestache.com** (should be live by 11-20-2024). There you can see detailed information about our concept, including our whiskey and bourbon bar, which is an integral part of the Stubble and Stache experience.

To provide a clearer picture of the unique barbershop we are bringing to Portage, we encourage you to view a similar establishment in Cleveland, OH. We have included two QR codes that will give a visual to this comparable business model. We believe this will help illustrate the sophistication and appeal of our planned experience at Stubble and Stache.



Further, I would like to specifically address the preferences listed in the excerpt numbered 6.37 from the City Code on the local approval for liquor licenses. I've attached this excerpt for reference.

1. While the City of Portage has stated a preference for awarding Class C liquor licenses to hotels or motor hotels with extensive amenities, we respectfully ask that you consider Stubble and Stache as a valuable and unique alternative.
 - a. **Community Impact:** Unlike a hotel that may primarily serve out-of-town guests, Stubble and Stache will be a community-focused business, catering to the residents of Portage and the surrounding area. Our establishment will become a hub for social interaction and provide a high-quality grooming and relaxation experience that includes the offering of fine bourbons and whiskeys. This will contribute to the City Center's development, drawing regular local patrons and promoting a lively atmosphere. Stubble and Stache is ready to use the license as soon as it is granted. It offers an immediate benefit, unlike a hotel or convention center that might take years to develop and potentially faces delays.
 - b. **Economic and Employment Opportunities:** Stubble and Stache is poised to generate immediate economic benefits by employing local barbers, massage therapists, and support staff. Many of these employees were displaced when a tornado hit Portage in May, and our establishment will provide an opportunity for them to reestablish their careers. While a hotel may create job opportunities, our business will be more specialized and directly tied to the community's recovery and ongoing prosperity.
 - c. **Supporting Local Business:** In contrast to a hotel chain, Stubble and Stache is a locally-owned, small business. Our ownership team, composed of myself, Carole Cormier, and Karen Lucas, has deep roots in the area. We are committed to investing in Portage's continued growth and success. By awarding us this license, the City will be fostering small business development and supporting a venture that will reinvest profits back into the local community.
 - d. **Innovative and Unique Guest Experience:** While hotels offer amenities like pools and game rooms, Stubble and Stache will provide a distinctive experience that blends high-quality grooming services with the enjoyment of premium bourbons and whiskeys. This unique concept is not only aligned with the City Center's vision of vibrant and varied business offerings but also adds to the destination appeal of the area.
 - e. **Enhancing the City Center Development:** Our barbershop will act as an anchor in the City Center, encouraging foot traffic and promoting neighboring businesses. Stubble and Stache's design and atmosphere will align with the City's goals of creating a lively and attractive urban core, serving as a magnet for both locals and visitors. We will complement the ongoing efforts to develop the City Center as a vibrant, multi-use district.
2. While the City Code indicates a preference for assembly or convention centers that serve a demonstrated public purpose and offer amenities like conference or banquet facilities with food service, we believe that Stubble and Stache presents a compelling and impactful alternative.
 - a. **Demonstrated Public Purpose:** Stubble and Stache will serve as more than just a barbershop; it will be a space for community connection, fostering social engagement among residents of Portage. By offering a unique blend of high-quality grooming services and the experience of enjoying curated bourbons and whiskeys, our establishment will create a gathering place that meets the social and recreational needs of our community in a way that a convention center cannot.
 - b. **Community Accessibility:** Unlike large convention centers that are often used only for specific events or require scheduled bookings, Stubble and Stache will be open daily,

readily accessible to the public. This consistent availability encourages frequent social interaction and makes our establishment an integral part of everyday life in the City Center. We will host community-focused events, such as grooming and wellness workshops or small networking meet-ups, which promote the well-being and vibrancy of Portage.

- c. **Economic and Social Benefits:** While convention centers may bring in large groups occasionally, our barbershop will provide ongoing economic activity, drawing patrons to the City Center daily. This regular flow of guests will support neighboring businesses, contribute to the area's vibrancy, and reinforce the City Center as a destination. Our investment in a refined yet accessible environment helps diversify the types of experiences available in Portage, aligning with the city's vision for a dynamic and lively business district.
 - d. **Unique Guest Experience Over Formal Facilities:** Stubble and Stache's offering of bourbon and whiskey alongside grooming services provides a refined yet approachable setting for celebratory and recreational experiences. This innovative approach caters to a broader audience, including residents and visitors seeking a more intimate and relaxed environment. By offering beverage service, we elevate the barbershop concept, making it a destination where individuals can unwind, socialize, and celebrate in a less formal yet high-quality setting.
 - e. **Support for Local Partnerships:** We are committed to collaborating with local caterers and food vendors for special events, thereby supporting other small businesses in the area. This flexibility allows us to adapt to community needs and provide food service when appropriate, enhancing the guest experience and encouraging further economic development in Portage.
3. While the City Code gives preference to restaurants with a unique and singular conceptual design and a minimum seating capacity of 250 persons, we believe that Stubble and Stache offers a distinctive and innovative concept that fulfills a similar vision of bringing something exceptional to Portage.
- a. **Unique and Singular Concept:** Stubble and Stache is a modern-day, classic-style barbershop that redefines the traditional grooming experience by integrating a sophisticated whiskey and bourbon lounge. This blend of services is unlike anything currently offered in Portage, setting our establishment apart as a destination experience. We aim to create an atmosphere that combines luxury grooming with the social and celebratory enjoyment of fine spirits, appealing to those seeking a high-end yet approachable environment.
 - b. **Space Optimization with an Uncommon Design:** Although our seating capacity is smaller than 250 persons, our space is designed to maximize guest comfort and provide a sense of exclusivity and refinement. The interior will feature an uncommon, thoughtfully crafted aesthetic inspired by the classic 1920s era, including rich wood accents, elegant fixtures, and a sophisticated ambiance. This creates a memorable experience for our guests, who will be drawn to the unique character of our space, contributing to repeat visits and positive word-of-mouth within the community.
 - c. **Focus on Quality Over Quantity:** Unlike large restaurants that rely on volume, Stubble and Stache emphasizes quality, both in the services provided and the guest experience. Our curated bourbon and whiskey offerings will be paired with an intimate, bespoke environment that encourages socializing and relaxation. This approach not only meets the community's desire for high-quality experiences but also aligns with the City Center's goal of fostering unique and engaging establishments.

- d. **Complementing the City Center's Vision:** Stubble and Stache will contribute to the variety and vibrancy of the City Center by offering a one-of-a-kind space that appeals to a diverse demographic. Instead of replicating the large-scale restaurant model, our barbershop and lounge will add to the district's dynamic mix of businesses, drawing both regular and new visitors and creating an attractive destination in Portage.
- e. **Economic Contribution and Attraction:** Our smaller-scale yet highly specialized business will generate consistent economic activity. By offering a distinct experience that stands out from typical dining establishments, we aim to attract patrons not just for grooming services but for the unique opportunity to enjoy a social gathering in an upscale, welcoming environment. This innovative approach diversifies the types of experiences available within the City, enhancing the community's overall appeal.

4a. There is a clear and compelling need for Stubble and Stache at the proposed location within the City Center of Portage. The City Center is an area of focused development, and our barbershop will contribute meaningfully to this vision by offering a unique, upscale experience that is currently unavailable in Portage.

- a. **Fulfilling a Community Demand:** As a modern-day, classic barbershop with an added whiskey and bourbon lounge, Stubble and Stache will cater to a growing trend where men seek high-quality grooming experiences paired with opportunities for relaxation and socialization. Currently, there are limited options in Portage that combine these elements, and our business will address this gap, attracting both locals and visitors who desire a sophisticated yet approachable environment.
- b. **Enhancing the City Center's Appeal:** The City Center aims to be a vibrant and lively district, and Stubble and Stache will play a pivotal role in achieving this vision. Our establishment will not only draw daily foot traffic to support surrounding businesses but also contribute to a diverse and attractive mix of offerings, making the area a more desirable destination for residents and visitors alike. By providing a unique experience that appeals to a broad demographic, Stubble and Stache will strengthen the City Center's role as a hub of social and economic activity.
- c. **Supporting Economic and Community Goals:** The May tornado had a significant impact on the local economy, and many barbers and service professionals lost their jobs. By establishing Stubble and Stache at this location, we will provide immediate employment opportunities, helping those affected to regain their livelihoods and contributing to the city's economic recovery. Additionally, our commitment to using clean and eco-friendly products from Aveda aligns with the community's focus on health and sustainability, enhancing the overall quality of life for Portage residents.
- d. **Strategic Location for Accessibility and Convenience:** The proposed location at 161 W. Centre Ave. is strategically situated in a high-traffic area with excellent visibility and accessibility, making it ideal for attracting a consistent flow of customers. The ample parking and pedestrian-friendly layout of the City Center further support the convenience and appeal of our business at this location. Our presence will complement existing establishments and contribute to a cohesive and vibrant business community.

4b. Stubble and Stache will provide a unique combination of services and products that are not currently available to the general public in Portage. Our barbershop will go beyond traditional grooming by offering a sophisticated experience that includes high-quality grooming services paired with the enjoyment of premium bourbons and whiskeys. This concept is distinctive within the local community and introduces an elevated standard of self-care for men, which is currently unmet.

- a. **Premium Product Offering:** The inclusion of a curated whiskey and bourbon lounge introduces a new level of service that appeals to those who appreciate fine spirits in a refined yet welcoming environment. This product offering is uncommon in the area and will draw residents and visitors looking for a distinguished experience that they cannot find elsewhere.
- b. **Enhanced Guest Experience:** Our barbershop will provide a modern take on a classic experience, complete with luxury amenities and clean, eco-friendly products from Aveda. This approach not only sets us apart from other grooming establishments but also reflects the values of health and sustainability that are important to the community. By elevating the standard of service, Stubble and Stache will fill a gap in the market, meeting the expectations of discerning clients who seek high-quality, personalized grooming experiences.
- c. **Social Gathering Space:** Stubble and Stache will also function as a unique social hub for the community, where individuals can gather, relax, and enjoy premium spirits in a sophisticated setting. Unlike conventional bars or large dining establishments, our intimate lounge offers a refined space for meaningful connections, enhancing the community's social fabric.
- e. **Commitment to Responsible Alcohol Service:** Assure the committee that Stubble and Stache will adhere strictly to all state and local regulations. You can propose implementing staff training in responsible alcohol service (e.g., TIPS certification).
- f. **Controlled Environment:** Explain that alcohol will be served in a controlled, professional setting, integrated seamlessly with the grooming and relaxation services.

4c. Stubble and Stache stands out as a truly unique establishment in Portage, offering an experience unlike any existing facilities. Our modern-day, classic-style barbershop combines high-quality grooming services with a refined whiskey and bourbon lounge, creating a one-of-a-kind destination that seamlessly blends self-care and social engagement.

- a. **Exclusive Concept:** There are currently no barbershops or salons in Portage that offer a full-service grooming experience paired with a high-end beverage service. The integration of these two elements creates a sophisticated yet approachable environment that appeals to a broad demographic, from professionals looking for a relaxing grooming session to whiskey enthusiasts eager to explore a curated selection of spirits. This dual focus on grooming and socializing sets Stubble and Stache apart from traditional grooming establishments and conventional bars.
- b. **1920s-Inspired Ambiance:** The design and atmosphere of Stubble and Stache are inspired by the elegance of the 1920s, featuring classic yet modern decor, rich wood accents, and luxurious finishes. This distinctive aesthetic provides a memorable experience for our guests, transporting them to a bygone era while offering modern-day comforts and amenities. The unique blend of historical charm and contemporary style makes Stubble and Stache a visually and experientially unmatched destination in the area.
- c. **Commitment to Quality and Sustainability:** We differentiate ourselves further through our use of Aveda's clean, eco-friendly products, prioritizing the health and well-being of our clients and the environment. This focus on sustainability and high-quality products is a rarity in the grooming and spirits industries, making our facility a unique and responsible choice for residents who value both luxury and environmental consciousness.

- d. **Social and Community Impact:** Beyond its services, Stubble and Stache will serve as a social hub where community members can gather, celebrate, and connect in an elegant and welcoming space. This community-oriented focus, combined with our innovative approach to grooming and beverages, offers a fresh and distinctive option compared to existing facilities in Portage.

- 4d. I have been a committed business owner in the Portage community for over 15 years. I successfully own and operate A'vie Day Spa, which has become a well-established and respected part of the local business landscape. A'vie Day Spa is known for providing high-quality, luxury spa services and contributing to the health and well-being of Portage residents.

My longstanding presence in the community has allowed me to build strong relationships with clients, fellow business owners, and community leaders, demonstrating my commitment to Portage's growth and success. With the launch of Stubble and Stache, I aim to further invest in and support the local economy, bringing a unique and valuable experience to the City Center.

- 4e. Stubble and Stache will be located at 161 W. Centre Avenue, which falls within the designated area of South Westnedge between Kilgore Avenue and Centre Avenue. This prime location is also part of the City Center planned area, aligning perfectly with the City of Portage's vision for a vibrant, mixed-use district.

- 4f. The proposed location for Stubble and Stache at 161 W. Centre Avenue is highly desirable given its strategic positioning within the City Center, an area of focused development that aims to create a vibrant, mixed-use district. This location benefits from high visibility and accessibility, making it ideal for drawing consistent foot traffic and supporting the area's growth as a destination for residents and visitors alike.

The surrounding land uses, which include a mix of retail, dining, and service-oriented businesses, are complementary to our concept. Stubble and Stache will enhance the variety of experiences available in the area, offering a unique blend of grooming services and a refined whiskey and bourbon lounge that is currently not available in Portage.

In terms of proximity to other premises licensed for on-premises consumption, our establishment will provide a differentiated offering. Unlike traditional bars or restaurants, Stubble and Stache will cater to a more niche and upscale clientele, focusing on quality and ambiance rather than high-volume traffic. Our presence will contribute to the overall diversity and attractiveness of the City Center, adding value to the community without creating an oversaturation of similar businesses.

- 4g. **Carole Cormier:** Carole has over 15 years of experience as the owner and operator of A'vie, a well-established and highly regarded business in Portage that employs over 25 people. Her entrepreneurial background includes creating a luxury spa experience that has earned a loyal clientele and contributed positively to the local economy. Additionally, she holds a business degree in Computer Information Systems from Western Michigan University and has over 30 years of professional experience managing high-profile projects for leading organizations, including First National Bank, Pfizer, Mann+Hummel, Meijer, and the University of Michigan. My extensive background demonstrates my ability to manage complex operations, drive business growth, and maintain financial stability.

Karen Lucas: Our barbershop manager, Karen Lucas, has a wealth of experience in the beauty and wellness industry. She grew up in Niles, MI, and attended private school before graduating from CSATM Massage School in 2003, where she earned her license in Colorado Springs. She later graduated from Twin City Beauty College in 2019. Karen has held key management positions, serving as Assistant Manager at Sports Clips from 2019 to 2023 and as Manager at Jude's from 2023 to 2024, where she honed her skills in leadership, operations, and team development. Additionally, Karen's service as an active-duty Army member from 2000 to 2002 has instilled in her a strong sense of discipline and commitment to excellence.

Steve Cormier: Steve will be our bartender at Stubble and Stache. He brings a strong background in criminal justice, with education from Ferris State University, and has 47 years of self-defense training. Steve actively shares his expertise with the community by providing training sessions at the Portage Zhang Senior Center and the Portage YMCA. He will also be TIPS certified to ensure the responsible service of alcohol, adding an extra layer of professionalism and safety to our establishment.

Together, our combined expertise in business operations, team management, and customer service will ensure the success of Stubble and Stache and our positive impact on the Portage community.

- 4h. In addition to our signature barbershop and bourbon lounge experience, Stubble and Stache will also offer a variety of complementary services and amenities designed to cater to the grooming and wellness needs of our male clientele. These additional offerings will include massage therapy, facials, and body waxing, all aimed at providing a comprehensive self-care experience in a luxurious and welcoming environment.

Furthermore, we will feature a boutique tailored specifically for men, offering high-quality grooming products, accessories, and specialty items to enhance our guests' experience and promote self-care beyond their visit. This combination of services makes Stubble and Stache a unique and multifaceted establishment that goes beyond the traditional barbershop model.

- 4i. The Stubble and Stache project represents a significant investment in the City of Portage, with costs well exceeding \$150,000. This investment will fund the creation of a high-quality, modern-day barbershop and bourbon lounge that will serve as a cornerstone of the City Center development area.

Our establishment will employ 15-20 people, creating new job opportunities and contributing to the local economy. Importantly, many of these hires will include barbers and service professionals who lost their place of employment when the May tornado devastated parts of Portage. By providing these individuals with stable and fulfilling employment, Stubble and Stache will play a vital role in supporting the community's economic recovery and helping residents get back on their feet.

- 4j. The design and size of Stubble and Stache are well-suited to the property at 161 W. Centre Avenue, as demonstrated in the building and grounds layout diagram submitted with this application. Our 2,800-square-foot space has been carefully planned to optimize functionality and guest experience while ensuring seamless integration with the existing structure and surroundings.

The layout is designed to accommodate our barbershop, bourbon lounge, wellness services, and men's boutique efficiently and elegantly, creating a cohesive and inviting atmosphere. The property's ample parking and convenient access further enhance the suitability of our business at this location, ensuring that our guests will have a comfortable and enjoyable visit. Additionally, our design aligns with the City Center's goal of developing a vibrant and attractive business district that serves both the local community and visitors.

- 4k. Stubble and Stache will contribute significantly to the overall development and revitalization of the City of Portage, particularly within the City Center district. Our modern-day barbershop and bourbon lounge align with the city's vision of creating a vibrant, mixed-use area that attracts both residents and visitors, enhancing the appeal and liveliness of the district.

By investing in this project, we are directly supporting the city's ongoing efforts to develop the City Center into a thriving economic and social hub. Our unique concept will draw consistent foot traffic, benefiting neighboring businesses and contributing to a sense of community within the area. Furthermore, by employing local residents and providing job opportunities to those impacted by recent natural disasters, we are actively participating in the city's economic growth and recovery.

Stubble and Stache will serve as a destination that adds value to the City Center, enhancing the overall quality of life in Portage and supporting the city's long-term development goals.

- 4l. Additionally, it is worth noting that Stubble and Stache will be female-owned with Carole Cormier.

Karen Lucas proudly served in the U.S. Army from 2000 to 2002, and Carole Cormier is the daughter of a WWII veteran. Our shared background and values are rooted in service, dedication, and a commitment to community well-being.

We are also dedicated to giving back to the community by supporting important causes and non-profits. As part of our mission, we plan to make regular contributions to Movember, an organization that focuses on men's health initiatives, as well as other local and national non-profits that support wellness and community development. This commitment reflects our desire to make a positive impact beyond our business operations, reinforcing our dedication to the Portage community and the broader public good.

We appreciate your time and consideration of our application for a Class C liquor license for Stubble and Stache. We are confident that our unique and community-focused concept will make a positive contribution to the City of Portage, enhancing the vibrancy of the City Center and supporting local economic growth. We kindly ask for your favorable consideration in granting us this license, and we look forward to the opportunity to serve and support our community in a meaningful way.

Thank you for your attention to this matter. Please do not hesitate to contact me with any questions or for further information.

Sincerely,
Carole Cormier
Stubble and Stache



On-Premises Retailer License & Permit Application (LCC-100a)

Part 1 - Applicant Information

Individuals, please state your legal name. Corporations or Limited Liability Companies, please state your name as it is filed with the State of Michigan Corporation Division.

Applicant name(s): Stubble and Stache, LLC	
Address to be licensed: 161 W. Centre Ave.	
City: Portage	Zip Code: 49024
City/township/village where license will be issued: Portage	County: Kalamazoo
Federal Employer Identification Number (FEIN): 99-4741241	

- | | |
|--|---|
| 1. Are you requesting a new license? | ☒ Yes ☐ No |
| 2. Are you applying ONLY for a new permit or permission? | ☒ Yes ☐ No |
| 3. Are you buying an existing license? | ☐ Yes ☒ No |
| 4. Are you transferring the classification of an existing on premises license? | ☐ Yes ☒ No |
| 5. Are you modifying the size of the licensed premises? | ☐ Yes ☒ No |
| If Yes, specify: ☐ Adding Space ☐ Dropping Space ☐ Redefining Licensed Premises | |
| 6. Are you transferring the location of an existing license? | ☐ Yes ☒ No |
| 7. Is this license being transferred as the result of a default or court action? | ☐ Yes ☒ No |
| 8. Do you intend to use this license actively? | ☒ Yes ☐ No |

Leave Blank - MLCC Use Only

Part 2 - License Transfer Information (If Applicable)

If transferring ownership of a license ONLY and not transferring the location of a license, fill out only the name of the current licensee(s)

Current licensee(s):	
Current licensed address:	
City:	Zip Code:
City/township/village where license is issued:	County:

Part 3 - Licenses, Permits, and Permissions

Applicants for on premises licenses, permits, and permissions (e.g. restaurants, hotels, bars, etc.) must complete the attached Schedule A and return it with this application. Transfer the fee calculations from the Schedule A to Part 4 below.

Part 4 - Inspection, License, and Permit Fees - Make checks payable to State of Michigan

Inspection Fees - Pursuant to MCL 436.1529(4) a nonrefundable inspection fee of \$70.00 shall be paid to the Commission by an applicant or licensee at the time of filing of a request for a new license or permit, a request to transfer ownership or location of a license, a request to increase or decrease the size of the licensed premises, or a request to add a bar. Requests for a new permit in conjunction with a request for a new license or transfer of an existing license do not require an additional inspection fee.

License and Permit Fees - Pursuant to MCL 436.1525(1), license and permit fees shall be paid to the Commission for a request for a new license or permit or to transfer ownership or location of an existing license.

Inspection Fees: 70. —	License & Permit Fees: \$600	TOTAL FEES: \$670. —
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Schedule A - Licenses, Permits, & Permissions

Applicant name: _____

On-Premises License Type:

New Transfer

Base Fee:

Fee Code
MLCC Use
Only

☐ ☐ B-Hotel License \$600.00

Number of guest rooms: _____

☐ ☐ A-Hotel License \$250.00

Number of guest rooms: _____

☒ ☐ Class C License \$600.00

☐ ☐ Tavern License \$250.00

☐ ☐ Resort License Upon Licensure

☐ ☐ DDA/Redevelopment License Upon Licensure

☐ ☐ Brewpub License \$100.00

☐ ☐ G-1 License \$1,000.00

☐ ☐ G-2 License \$500.00

☐ ☐ Aircraft License \$600.00

☐ ☐ Watercraft License \$100.00

☐ ☐ Train License \$100.00

☐ ☐ Continuing Care Retirement Center License \$600.00

☐ MCL 436.1545(1)(b)(i) ☐ MCL 436.1545(1)(b)(ii)

B-Hotel or Class C Licenses Only:

☐ ☐ Additional Bar(s)

Number of Additional Bars: _____

B-Hotel or Class C licenses allow licensees to have one (1) bar within the licensed premises. A \$350.00 licensing fee is required for each additional bar over the one (1) bar initially issued with the license.

Licenses, permits, and permissions selected on this form will be investigated as part of your request. Please verify your information prior to submitting your application, as some licenses, permits, or permissions cannot be added to your request once the application has been sent out for investigation by the Enforcement Division.

Inspection, License, Permit, & Permission Fee Calculation

Number of Licenses: 1 x \$70.00 Inspection Fee

Total Inspection Fee(s):

Total License Fee(s):

Total Permit Fee(s):

TOTAL FEES DUE:

Please note that requests to transfer SDD licenses will require the payment of additional fees based on the seller's previous calendar year's sales. These fees will be determined prior to issuance of the license to the applicant.

Make checks payable to **State of Michigan**

On-Premises Permits:

Base Fee:

Fee Code
MLCC Use
Only

☐ Sunday Sales Permit (AM)* \$160.00

☐ Sunday Sales Permit (PM)** 15%**

☐ Catering Permit \$100.00

☐ Social District Permit \$250.00

☐ Banquet Facility Permit - Complete [Form LCC-200](#)

A Banquet Facility Permit is an extension of the license at a different location. It may have its own permits and permissions.

☐ Outdoor Service No charge

☐ Dance Permit No charge

☐ Entertainment Permit No charge

☐ Extended Hours Permit: No charge

☐ Dance ☐ Entertainment Days/Hours: _____

☐ Specific Purpose Permit: No charge

Activity requested: _____

Days/Hours requested: _____

☐ Living Quarters Permit No charge

☐ Topless Activity Permit No charge

☐ Off-Premises Storage No charge

☐ Direct Connection(s) No charge

☐ On-Premises Public Swimming Pool Permit - Complete [Form LCC-209](#)

Pursuant to MCL 436.1533, on-premises retailers may be issued a Specially Designated Merchant (SDM) license or a Specially Designated Distributor (SDD) license at the same location in conjunction with the on-premises license under certain circumstances.

Off-Premises License Type:

Base Fee:

Fee Code
MLCC Use
Only

New Transfer

☐ ☐ SDM License \$100.00

☐ ☐ SDD License \$150.00

Off Premises Permits:

Base Fee:

☐ SDD Sunday Sales Permit (PM)** \$22.50
For Spirit Products

☐ SDM Sunday Sales Permit (PM)** \$15.00
For Mixed Spirit Drink Products

☐ Motor Vehicle Fuel Pumps No charge

*Sunday Sales Permit (AM) allows the sale of spirits, mixed spirit drink, beer, and wine on Sunday mornings between 7:00am and 12:00 noon, if allowed by the local unit of government.

**Sunday Sales Permit (PM) allows the sale of spirits and mixed spirit drink on Sunday afternoons and evenings between 12:00 noon and 2:00am (Monday morning), if allowed by the local unit of government. No Sunday Sales Permit (PM) is required for the sale of beer and wine on Sunday after 12:00 noon. The Sunday Sales Permit (PM) fee is 15% of the fee for the license that allows the sale of spirits or mixed spirit drink. Additional bar fees and hotel room fees are also calculated as part of the permit fee. A separate Sunday Sales Permit (PM) is required for each license that will sell spirits or mixed spirit drink on Sunday after 12:00 noon.

Part 6 - Contact Information For This Application

What is your preferred method of contact?		☐ Phone	☐ Mail	☒ Email	☐ Fax
What is your preferred method for receiving a Commission Order?		☐ Mail	☒ Email	☐ Fax	
Contact name: Carole Cormier			Relationship: President		
Mailing address: 1959 Brighton Ln					
City: Portage		State: MI		Zip Code: 49024	
Phone: [REDACTED]	Fax number:		Email: stubbleandstachebarbershop@gmail.com		

Part 7 - Attorney Information (If You Have An Attorney Representing You For This Application)

Attorney name:		Member Number: P-	
Attorney address:			
Phone:	Fax number:		Email:
Would you prefer that we contact your attorney for all licensing matters related to this application?			☐ Yes ☐ No
Would you prefer any notices or closing packages be sent directly to your attorney?			☐ Yes ☐ No

Part 8 - Signature of Applicant

Be advised that the information contained in this application will only be used for this request. This section will need to be completed for each subsequent request you make with this office.

Notice: When purchasing a license, a buyer can be held liable for tax debts incurred by the previous owner. Prior to committing to the purchase of any license or establishment, the buyer should request a tax clearance certificate from the seller that indicates that all taxes have been paid up to the date of issuance. Obtaining sound professional assistance from an attorney or accountant can be helpful to identify and avoid any pitfalls and hidden liabilities when buying even a portion of a business. Sellers can make a request for the tax clearance certificate through the Michigan Department of Treasury.

Under administrative rule R 436.1003, the licensee shall comply with all state and local building, plumbing, zoning, sanitation, and health laws, rules, and ordinances as determined by the state and local law enforcements officials who have jurisdiction over the licensee. Approval of this application by the Michigan Liquor Control Commission does not waive any of these requirements. The licensee must obtain all other required state and local licenses, permits, and approvals for this business before using this license for the sale of alcoholic liquor on the licensed premises.

I certify that the information contained in this form is true and accurate to the best of my knowledge and belief. I agree to comply with all requirements of the Michigan Liquor Control Code and Administrative Rules. I also understand that providing **false** or **fraudulent** information is a violation of the Liquor Control Code pursuant to MCL 436.2003.

The person signing this form has demonstrated that they have authorization to do so and have attached appropriate documentation as proof.

Carole Ann Miller Cormier - President

11-15-2024

Print Name of Applicant & Title

Signature of Applicant

Date

Please return this completed form along with corresponding documents and fees to:

Michigan Liquor Control Commission

Mailing address: P.O. Box 30005, Lansing, MI 48909

Overnight deliveries: 2407 N. Grand River Avenue, Lansing, MI 48906

Fax to: 517-284-8557

Part 5a - Information on Individual Applicant, Stockholder, Member, or Limited Partner

Each individual, stockholder, member, or partner must complete Part 5a, 5b, and 5c. If a stockholder or member of an applicant company is a corporation or limited liability company, complete Part 5a and 5c and submit a completed [Form LCC-301](#). For applications with multiple individuals, stockholders, members, or partners - each person or entity must complete a separate copy of this page.

Name: Carole Ann Miller Cormier		
Home address: 1959 Brighton Ln.		
City: Portage	State: MI	Zip Code: 49024
Business Phone: [REDACTED]	Cell Phone: [REDACTED]	Email: stubbleandstachebarbershop@gmail.com
Have you ever been licensed by the Michigan Liquor Control Commission (MLCC) or do you currently hold an interest in any other licenses issued by the MLCC? If Yes , please list business ID numbers below. If you hold interest in 2 or more locations under the same name, please also write "chain" below. Pursuant to MCL 436.1603, a retailer licensee <u>may not</u> hold interest in a manufacturer or wholesaler licensee. ☐ Yes ☒ No		
Do you hold 10% or more interest in the applicant entity? ☒ Yes ☐ No		
If you answered "no" to the first question and "yes" to the second question, you must submit fingerprints and undergo an investigation by the MLCC. Please see the attached instructions for submitting fingerprints to the MLCC. You must submit a copy of the completed and endorsed Livescan Fingerprint Background Request (LCC-105) with your application.		

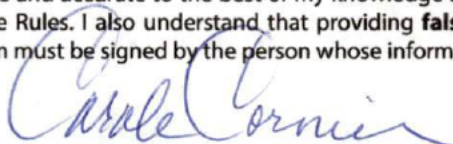
Part 5b - Personal Information (Individuals) - Must be at least 21 years of age, pursuant to administrative rule R 436.1105(1)(a).

Date of Birth: [REDACTED]	Social Security Number: [REDACTED]	Driver's License Number: [REDACTED]	
Are you a citizen of the United States of America? ☒ Yes ☐ No			
Have you ever legally changed your name? ☒ Yes ☐ No			
If you answered "yes", please list your prior name(s) (including maiden):			
Spouse's full name (if currently married): Steven Paul Cormier			
Spouse's date of birth: [REDACTED]	Is your spouse a citizen of the United States of America? ☒ Yes ☐ No		
Do you or your spouse hold any position, either by appointment or election, which involves the duty to enforce any penal law of the United States of America, or the penal laws of the State of Michigan, or any penal ordinance or resolution of any municipal subdivisions of the State of Michigan? ☐ Yes ☒ No			
Does your spouse hold a retailer, manufacturer, or wholesaler license issued by the MLCC? ☐ Yes ☒ No			
Full disclosure of criminal history must be reported, regardless of how long ago the crime occurred. State of Michigan and federal criminal background records will be checked to verify criminal history. Failure to report criminal history charges and/or local ordinance violations may result in the denial of the application. Criminal history includes felonies, misdemeanors, and local ordinance violations in Michigan or any other state for which the applicant or applicant's spouse was found guilty, pled guilty, or pled no contest.			
Have you ever been found guilty, pled guilty, or pled no contest to a criminal charge or any local ordinance violations? If Yes , list below (attach additional pages if necessary): ☐ Yes ☒ No			
Date	City/State	Charge	Disposition
Has your spouse ever been found guilty, pled guilty, or pled no contest to a criminal charge or any local ordinance violations? If Yes , list below (attach additional pages if necessary): ☐ Yes ☒ No			
Date	City/State	Charge	Disposition

Part 5c - Signature

I certify that the information contained in this form is true and accurate to the best of my knowledge and belief. I agree to comply with all requirements of the Michigan Liquor Control Code and Administrative Rules. I also understand that providing **false** or **fraudulent** information is a violation of the Liquor Control Code pursuant to MCL 436.2003. (This form must be signed by the person whose information it contains).

Carole Ann Miller Cormier



11-15-2024

Print Name

Signature

Date

To: City of Portage Clerk's Office

From: Zap Zone XL

Thank you for your consideration of our application for a liquor license. Please find the following documents attached:

1. Signed and notarized liquor license application (with extra information attached).
2. Check for application fee
3. Full set of plans as per license application
4. Filed articles of incorporation
5. Current tax bill as proof of ownership
6. Affidavit for corporate resolution naming persons authorized to sign the application
7. Affidavit to identify corporate officers
8. Resolution from the State of Michigan recognizing Zap Zone and its commitment to the community.
9. Pictures of the existing Zap Zone XL in Lansing.

For further information please contact any of the following:

Mike Hafez –

Mujay Qatum

Craig Goschk



SECTION 1: Applicant Information

(complete the corresponding section that applies to your entity)

1(a): Individual Applicant			
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Entity Website (if applicable):	

1(b): Partnership Applicant			
List the name, age, and address of all persons entitled to share in the profits thereof.			
The general partner shall sign the application and all other documents required in connection with the application.			
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Partnership Role:	
(list any additional persons on a separate sheet)			

1(c): Corporation Applicant

List name and address of all persons of all officers and directors thereof. (List any additional persons on a separate sheet.)

If an aggregate of more than 10% of the stock of such corporation is owned by any one person or his or her nominee, list the name, age, and address of such person.

Name: <i>See attached</i>		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	
Name:		Age:	
Address:			
City:	State:	ZIP Code:	Phone:
E-mail:		Corporation Role:	

1(d): Limited Liability Company Applicant

List for all members. (List any additional persons on a separate page.)

Name:		Age:	
Address:			
Name:		Age:	
Address:			
Name:		Age:	
Address:			

1(e): Business Manager: If the business is to be operated by a local manager or agent, complete below.

Name:		Title:	
Address:			
City:	State:	Zip Code:	
Email Address:		Phone:	

Section 1(c)

Name: Mohamed Hafez

Age: 54

Address: 4126 River Cove Dr.

City: Lansing

State: MI

Zip: 48917

Phone: [REDACTED]

E-mail: [REDACTED]

Corporation Role: President

Name: Ghazwan Ismail

Age: 54

Address: 22419 Paddington

City: Novi

State: MI

Zip: 48374

Phone: [REDACTED]

E-mail: [REDACTED]

Corporation Role: Vice-President

Name: Craig Goschka

Age: 38

Address: 3615 Observatory Ln.

City: Holt

State: MI

Zip: 48842

Phone: [REDACTED]

E-mail: [REDACTED]

Corporation Role: Treasurer

Name: Mujahid Qatum

Age: 31

Address: 6003 Claremont Ct.

City: Lansing

State: MI

Zip: 48917

Phone: [REDACTED]

E-mail: [REDACTED]

Corporation Role: Secretary

Name: Ghelan Ismail

Age: 50

Address: 46831 Eastbourne Rd.

City: Canton

State: MI

Zip: 48188

Phone: [REDACTED]

E-mail: [REDACTED]

Corporation Role: Assistant Secretary

SECTION 2: License Type

Type of License Desired:

Class C License - For on-site consumption of beer, wine + spirits

SECTION 3: Nature of Business

The nature of business of the applicant.

If a corporation, partnership or limited liability company, the object or objects for which it was formed:

A large (156,000 ft²) modern entertainment facility that will cater to families as well as adult and corporate outings. We expect to have an occupancy between 1000-1500 individuals. We will have a dining and bar area with a seating capacity between 300-400 people. The facility will include state of the art attractions including bowling, go-karts, adventure park, skating rink, laser tag, mini golf, arcade, and other rides.

SECTION 4: Location Information

Proposed Business Location & Description:

Address: 6780 S. Westnedge Ave.

Unit/Suite:

Parcel ID: 00009-186-0

Description: Former Sears building attached to Crossroads Mall

SECTION 5: Attestations

Provide a written statement below regarding the applicant's character, experience, and financial ability to meet the obligations and business undertakings for which the license is to be issued.

Include the length of time said applicant has been in the business of that nature, or, in the case of a corporation, partnership, or limited liability company, the date on which the entity came into existence:

Zap Zone is a family entertainment facility that has been doing business in Michigan since 1994. We currently operate 11 locations of varying size and scope in Michigan and Ohio, including 5 active liquor licenses. The latest location was opened December 22, 2023 and due to its profound success will serve as a model for the new operation in Portage. A project of this nature will require an investment of \$12-\$15 million, require approximately 100 construction jobs, as well as create approximately 150 new jobs when opened. Zap Zone XL Holdings has already committed to the project by making a cash purchase of the property.

Provide a written statement below whether the applicant has, prior to this application, made application for a license to sell beer and wine or spirits and the date, place, and description of such application or applications.

This is our first attempt for this location. Our other licensed locations in Michigan are as follows:
Lansing - 12/2023 (Delta Township)
Ann Arbor - 5/2022 (Pittsfield Township)
Battle Creek - 9/2016

Provide a written statement below that the applicant will not violate any of the ordinances of the City of Portage or laws of the State of Michigan or of the United States in the conduct of its business.

We are familiar with the laws and ordinances regarding the service of alcohol. We will abide by these and all other laws and ordinances.

Provide a written statement below that, should any of the information provided in his or her application or any attachment thereto change during the term of this license or any renewal thereof, the applicant will notify the City Clerk in writing within thirty (30) days of such change.

We acknowledge that any changes affecting any information related to this application will be submitted to the clerk within 30 days.

SECTION 6: Additional Information

Attach an 8-1/2" x 11" building and grounds layout diagram showing the entire structure, premises, and grounds and, in particular, the specific areas where the license is to be utilized. The plans shall show the relationship of the proposed structure to the surrounding property and land use and shall demonstrate adequate off-street parking, lighting, refuse disposal facilities, and where appropriate, adequate plans for screening and noise control.

SECTION 7: Applicant Statements & Attestations

The Applicant is responsible for being sufficiently familiar with and having a working knowledge of the city ordinance requirements. A copy of Chapter 6 "Alcoholic Liquor" is available on the City of Portage website at www.portagemi.gov.

By signing below, the Applicant acknowledges they are subject to the following *Decision Criteria*:

- 1) The applicant's management experience in the alcohol/liquor business;
- 2) The applicant's general business management experience;
- 3) The applicant's general business reputation;
- 4) The applicant's moral character;
- 5) The applicant's financial status and ability to build and/or operate the proposed facility on which the proposed liquor license is to be located;
- 6) Past criminal convictions of the applicant for crimes involving moral turpitude, violence, or alcoholic beverages;

- 7) The applicant's excessive use of alcoholic beverages;
- 8) The effect that the issuance of a license would have upon the economic development of the surrounding area;
- 9) The effect that the issuance of a license would have on the health, welfare, and safety of the general public;
- 10) The recommendations of the local law enforcement agency, the Department of Community Development and/or the fire department with respect to the proposed facility.
- 11) Whether the applicant has demonstrated the public need or convenience for the issuance of the liquor license for the business facility at the location proposed.
- 12) The uniqueness of the proposed facility when contrasted against other existing or proposed facilities.
- 13) Whether the facility to which the proposed liquor license is to be issued complies, or will comply, with the building, plumbing, electrical, fire prevention, and zoning codes of the city and any other building, plumbing, electrical, fire prevention and zoning statutes and ordinances applicable to the city.
- 14) The effect that the business facility to which the proposed license is to be issued will have upon vehicular and pedestrian traffic in the area.
- 15) The proximity of the proposed business facility to other similarly situated licensed liquor facilities.
- 16) The effect that the business facility to which the proposed license is to be issued will have upon the surrounding neighborhood and/or business establishments.
- 17) The permanence of the establishment in the community as evidenced by the proposed or actual commitments made by the applicant.
- 18) Such other considerations as the council may deem proper.

Execution:

Signed: _____

Date: 12-6-2024

MOHAMED HAFEZ
(Name of entity or individual)

Title (if applicable):

Acknowledgment:

State of MI)
)SS:
County of EATON)

Before me, the undersigned Mohamed Hafez on this day personally appeared to me known/produced the following identification Michigan Driver License; who being duly sworn according to law, acknowledged the foregoing instrument.

Subscribed and sworn to before me this 6 day of December, 2024.

Michael T. Witten Notary Public

My Commission Expires 08-07-25

(Notary Seal)

MICHAEL T. WITTEN
NOTARY PUBLIC - MICHIGAN
INGHAM COUNTY
MY COMMISSION EXPIRES 08/07/25
ACTING IN Eaton COUNTY

[illegible]

SYMBOLS

[illegible]

[illegible]

24152
BIG ENTERTAINMENT
FACILITY
THE CROSSROADS MALL
6780 S WESTNEDGE AVE.
PORTAGE, MI 49024
DEMO PERMIT
GENERAL NOTES
12.04.2024

REV	NOTE	DATE
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T03

PLAN NOTES

1. **NOTE: CONTRACTOR**
REMOVE AND REPAIR ALL UTILITIES COORDINATE WITH THE ARCHITECT AND THE CITY OF MILWAUKEE.
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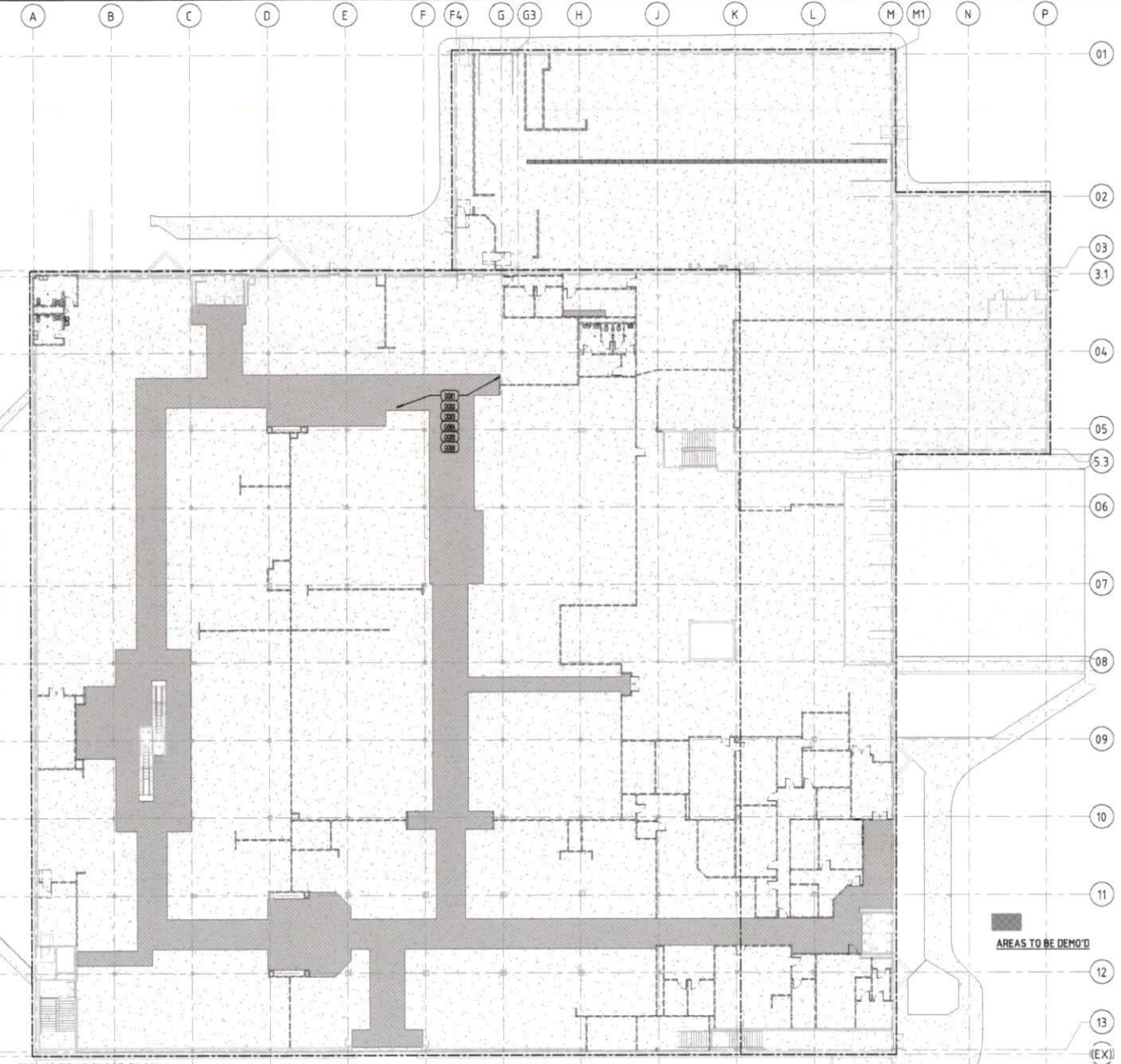
DEMOLITION NOTES

1. THE INTENT OF THE DEMOLITION PLAN IS TO SHOW THE GENERAL NATURE OF THE DEMOLITION SCOPE. THE E.C. IS RESPONSIBLE FOR VERIFYING THE JOB SITE AND VERIFYING THE (E) CONDITIONS. THE E.C. SHOULD IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. CAUSE NO DAMAGE TO (E) CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL UTILITIES, DOORS, FINISHES, ETC. WHICH ARE TO REMAIN.
3. SEE ALL NOTES NECESSARY TO PRESERVE THE SHIPWAY OF ADJACENT AREAS.
4. CONDUCT DEMOLITION OPERATIONS & THE REMOVAL OF DEBRIS TO ENSURE UNIFORM INTERFERENCE WITH EXISTING, MAINTAIN AND OTHER ADJACENT OCCUPIED OR USED FACILITIES FOR RESIDUALS AND TREATMENT OF TRAFFIC TO BE RECYCLED.
5. DISPOSE OF ALL DEMOLISHED OR REMOVED MATERIALS LEGALLY AND DISPOSEL REQUIREMENTS. THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ADJACENT OR OTHER ADJACENT MATERIALS ON THE JOB SITE. THE CONTRACTOR SHALL IMMEDIATELY ISOLATE THE AFFECTED AREA IF ADJACENT OR OTHER ADJACENT MATERIALS ARE OBSERVED DURING CONSTRUCTION. NOTIFY OWNER FOR FURTHER INSTRUCTIONS BEFORE PROCEEDING WITH OTHER WORK.
6. MAINTAIN UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. SCHEDULE ALL SERVICE SHUT-DOWNS WITH THE OWNER. NOTIFY OWNER A MINIMUM PERIOD OF ONE WEEK FROM THE DATE ONE (1) HOUR PRIOR TO SHUT-DOWN.
7. REMOVE ALL ANCHORED ANCHOR BOLTS AND SUBSEQUENT ITEMS IN CONCRETE FLOOR THAT PROTRUDE ABOVE THE CONCRETE JOINT SURFACES.
8. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SPES DEMOLITION NOTES REGARDING PLUMBING ITEMS REMOVED SHALL BE CAPPED AND IDENTIFIED.
9. UPON COMPLETION CLEAN THE INTERIOR AREAS OF DEMOLITION TO A TYPICAL UNIFORM CONDITION. REMOVAL ALL DEBRIS, DIRT PARTITIONS AND ASSOCIATED MATERIALS USED DURING THE DEMOLITION. CLEAN ALL AREAS IMPACTED BY DEMOLITION INCLUDING BUT NOT LIMITED TO ADJACENT OCCUPIED AREAS AND AREAS NOT WITHIN THE SCOPE OF WORK.
10. PROVIDE IN-SUPPORT BACK ON HANGERS FOR ABOVE CEILING ITEMS WHICH WERE ORIGINALLY SUPPORTED BY REMOVED WALLS.
11. RECONSTRUCT ITEMS OF UNUSABLE UTILITIES IN PLACE IS STRICTLY PROHIBITED UNLESS SPECIFICALLY PERMITTED BY OWNER.
12. PATCH PART FINISHES: TAPE PATCH, SAND, SMOOTH, AND PAINT ALL (E) INTERIOR WALLS WHERE DAMAGED TO UPGRADE TO QUANTITY ACCEPTED CONDITIONS. ALL ADJACENT EXIST FINISHES DAMAGED OR AFFECTED BY DEMOLITION OR CONSTRUCTION OF THE IN AREA IN SCOPE OF WORK SHALL BE PATCHED AND REPAIRED.
13. IF ALL TIMES COMPLY WITH ALL STANARDS, LOCAL, NATIONAL, STATE CODES.

1. **GENERAL ELECTRICAL DEMOLITION NOTES**
THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, RECONSTRUCTION, RELOCATION OF SERVICES AND RELATED WORK. INCLUDING ALL WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND OVERSIGHT PRIOR TO SUBMITTING A BID. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL WORK SHOWN ON OTHER DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND THE WORK REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE DEMOLITION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE BUILDING AREA.
4. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR REUSE. IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIALS FROM THE SITE IN ACCORDANCE WITH E.P.A. REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS ACCEPTED BY THE OWNER TO THE DEMOLITION LOCATION AS DIRECTED BY THE OWNER. ITEMS TO BE REMOVED TO THE OWNER ARE: TELEVISIONS, EXT. BUSES, AND FIRE ALARM DEVICES.
5. IN ALL CASES WHERE WORK IS REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL ITEMS OF SYSTEMS CONNECTING TO OR FROM THE PART REMOVED. COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.
6. ALL WIRING, CABLES AND/ OR FIBER OPTICS INCLUDING BUT NOT LIMITED TO DEVICES AND EQUIPMENT BE DEMOLISHED AND THOSE THAT WERE HANDLED IN PLACE, SHALL BE REMOVED BACK TO THEIR SOURCES. UTILITIES NOTED OTHERWISE, CONDUITS HANGERS WIRING SHALL, WHERE NECESSARY, BE RELOCATED AND/OR THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND RELOCATION OF SERVICES, EQUIPMENT AND MATERIALS RELATING TO HVAC, PLUMBING, FIRE PROTECTION AND ELECTRICAL TRADES, RESPECTIVELY.
7. ALL CONDUIT THAT HAS BEEN MANHOLED OR IS SHOWN SHALL BE REMOVED.
8. INTERIOR PLUMBING METAL COVER PLATES FOR ALL JUNCTION DEVICES SHALL BE LONGER IN USE THAT ARE EMBEDDED IN CONCRETE OR MASONRY WALLS. PANELS IN WIRE CLOSETS THAT HAVE BEEN REMOVED COVER PLATES SHALL BE PAINTED TO MATCH (E) CONDITIONS.
9. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL AND E.C. FOR IS PARTITIONS TO BE REMOVED.
10. DISCONNECT (E) BRANCH CIRCUITS SERVING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVING (E) DEVICES IN OTHER AREAS THAT ARE TO REMAIN.
11. LIGHT FIXTURES, CONTROL, DIMMER, THE PARTS TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES FIXTURES IN OTHER AREAS THAT ARE TO REMAIN, THE E.C. SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.
12. POWER RECEPTACLES RECEPTACLES TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES RECEPTACLES IN OTHER AREAS THAT ARE TO REMAIN, THE E.C. SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTACLES.
13. THE E.C. SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED.
14. THE E.C. SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED.
15. FOR (E) DEVICES LOCATED THAT ALL INDUCTED TO BE REMOVED BACK TO THE POINT OF ORIGIN. LOCATED (E) DEVICES LOCATED OUTSIDE THE AREA OF WORK ARE TO REMAIN ON THE SAME CIRCUIT. IN THAT CASE, REMOVE THE (E) DEVICES LOCATED IN AREA OF WORK BACK TO THE (E) DEVICES TO REMAIN. ALL CONDUITS/CIRCUITS IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT EMERGENCY FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE THE AREA OF WORK. COORDINATE AND SCHEDULE WITH THE OWNER PRIOR TO PERFORMING WORK.

1. **GENERAL HVAC DEMOLITION NOTES**
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL WORK NECESSARY TO DEMOLITE, ALTER, CHANGE, AND REPAIR (E) PREVIOUS BASED UPON THE ACTUAL FIELD CONDITIONS.
2. ALL DEMOLITION WORK SHALL BE PERFORMED WITH CARE AND DILIGENCE, SO AS TO PREVENT THE UNNECESSARY DESTRUCTION AND/OR DAMAGE TO SYSTEMS THAT SHALL REMAIN IN OPERATION AT THE CONCLUSION OF THIS WORK. DETERMINE THE EXACT LOCATION OF ALL (E) EQUIPMENT, DEVICES AND WIRING BEFORE COMMENCING WORK.
3. LOCATE AND PRESERVE ALL PORTIONS OF THE (E) HVAC SYSTEMS WHICH SHALL REMAIN.
4. CONTROL, DEVICES AND WIRING ARE NOT SHOWN ON THE DEMOLITION PLAN AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL (E) HVAC DEVICES, EQUIPMENT AND WIRING BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MIGHT OCCUR BECAUSE OF THE CONTRACTOR'S FAILURE TO ACCURATELY DISCOVER, LOCATE AND PROTECT ANY AND ALL PORTIONS OF THE (E) HVAC SYSTEM.
6. (E) ELECTRONIC AND CONTROL WIRING MAY BE REUSED WHERE THEY ARE OF THE TYPE SPECIFIED. MEET THE REQUIREMENTS FOR THE (E) WORK AS SPECIFIED IN THE CONTRACT DOCUMENTS, AND REMAIN IN GOOD CONDITION. REMOVE AND REPAIR ALL (E) PROVIDE PROTECTION PLACES ALL (E) EQUIPMENT AND DEVICES TO REMAIN ON OR IN WALLS, CEILING AND FLOORS WHICH SHALL BE EXPOSED TO DEMOLITION AND CONSTRUCTION ACTIVITIES, AND WHICH MAY BE DAMAGED BY DIRT, DEBRIS, ETC.
7. WHERE (E) EQUIPMENT AND DEVICES SHALL BE REMOVED, THE CONTRACTOR SHALL REMOVE ALL THE ASSOCIATED DUCTWORK, PIPING, AND CONTROLS THAT WILL NOT REMAIN IN OPERATION. BACK TO THEIR RESPECTIVE SOURCES OR TO THE POINT ON A SHARED SYSTEM FROM WHERE THE EQUIPMENT OR DEVICE IS SERVED.
8. ISOLATE AS NECESSARY ALL (E) EQUIPMENT, DEVICES AND CONTROLS FROM PASSING THROUGH THE AREA OF CONSTRUCTION, AND WHICH ARE PRESENTLY IN USE IN OTHER PORTIONS OF THE BUILDING UNIMPACTED BY THIS PROJECT PHASE. TO MAINTAIN THE CONTINUITY OF SERVICE AND OPERATIONS, AND CONSIDER, THEN ABOVE (E) CEILING.
9. ALL (E) DAMAGED DUCTWORK, SHELLS AND SERVICES WITHIN THE AREA OF CONSTRUCTION AND SHOWN TO REMAIN IN OPERATION SHALL BE REPLACED WITH (E) MATERIALS CONFORMING TO THESE CONTRACT DOCUMENTS.
10. ALL EQUIPMENT, DEVICES AND MATERIALS REMOVED DURING DEMOLITION WORK AND NOT SCHEDULED TO BE REUSED OR TURNED OVER TO THE OWNER SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR FOR DISPOSAL.
11. THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY TO REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES PERFORMED BY THE CONTRACTOR. THIS WORK INCLUDES AREAS OUTSIDE ANY LIMITS OF CONSTRUCTION LINES SHOWN ON THE DRAWINGS.

1. **GENERAL PLUMBING DEMOLITION NOTES**
REMOVE ALL (E) WATER PIPING AND PLUMBING FIXTURES EXCEPT AS NOTED ON PLANS, BACK TO MAIN WATER LINES INSIDE BUILDING. P.C. MAY REUSE (E) WATER PIPING WHERE PRACTICAL.
2. REMOVE ALL (E) WASTE AND VENT PIPING AND PLUMBING FIXTURES EXCEPT AS NOTED ON PLANS, BACK TO MAIN SANITARY WASTE LINE. P.C. MAY REUSE (E) WASTE AND VENT PIPING WHERE PRACTICAL.
3. REMOVE (E) WATER HEATERS AND ALL ASSOCIATED WATER PIPING BACK TO CONNECTION WITH MAIN PLUMBING LINES.
4. P.C. SHALL VERIFY JOB SITE PRIOR TO CONSTRUCTION TO DETERMINE FINAL SCOPE OF PLUMBING DEMOLITION WORK. COORDINATE WITH E.C.



(DEMO) FIRST FLOOR PLAN

1/16" = 1'-0"

NOTES

- DO NOT SCALE PLANS
- THESE CONSTRUCTION DOCUMENTS WERE PREPARED FOR COMPLIANCE WITH LOCAL CONSTRUCTION CODES IN EFFECT AT THE TIME OF PREPARE. SUBMITTAL ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THE PROJECT SHALL COMPLY WITH SAME CODES. REVISIONS AND APPROVED CODE MODIFICATIONS AND/OR LOCAL CONSTRUCTION ORDINANCES SHALL BE PROVIDED BY THE ARCHITECT AND SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. COORDINATE ALL CHANGES, DETAILS AND EQUIPMENT SPEC.
- ALL TRADES SHALL REVIEW AND HAVE ACCESS TO ENTIRE SET OF PLANS AND SPEC PRIOR TO BEING AND DURING CONSTRUCTION.
- SEPARATION OF SHEETS IS NOT PERMITTED.
- RUMBLE AREA OF UPDATES TO CONSTRUCTION/PROJECT INCLUDING SCHEDULE, PROGRESS AND PROGRESS REPORT.
- FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT. E.C. SHALL SUBMIT ALL ISSUES AND DEVIATIONS FROM THE PLANS TO OWNER & ARCHITECT.
- PROVIDE STORAGE FOR ALL EQUIPMENT AND MATERIALS IN ACCORDANCE TO MANUFACTURER'S SPEC FOR DURATION OF CONSTRUCTION.
- WORK SHALL NOT COMMENCE PRIOR TO RECEIPT OF ALL APPROVED PERMITS.
- THE PLANS AND DETAILS INCLUDED IN THIS PROJECT ARE FOR THE SOLE PURPOSE OF THE PROJECT. THE USE OF THESE DETAILS ON ANY OTHER PROJECT IS STRICTLY PROHIBITED UNLESS APPROVED BY ARCHITECT.
- COPYRIGHT © 2024 BIGGDESIGNS, LLC
- ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM BIGGDESIGNS, LLC.
- SUBSTITUTIONAL TENDERS MUST BE PROVIDED TO ARCHITECT FOR APPROVAL PRIOR TO BEING USED IN THE PROJECT. ALL SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT AND MAY REQUIRE A NEW, REUSE REVIEW AND/OR OTHERWISE APPROVED IN CLIENT'S SERVICE AGREEMENT.

DESIGNER'S LIABILITY

ALL WARRANTIES ARE DISCLAIMED. SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR LOCAL AUTHORITY FOR APPROVAL PRIOR TO INSTALLATION.

BIGGDESIGNS, LLC
ARCHITECTURE
INTERIOR • DESIGNATION
WWW.BIGGDESIGNSARCHITECTURE.COM
131 E COMMERCE ST.
MILFORD, MI 48361
248.886.4850

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STORAGE AND RETRIEVAL SYSTEM, WITHOUT
PERMISSION IN WRITING FROM BIGGDESIGNS, LLC.*

PROJECT

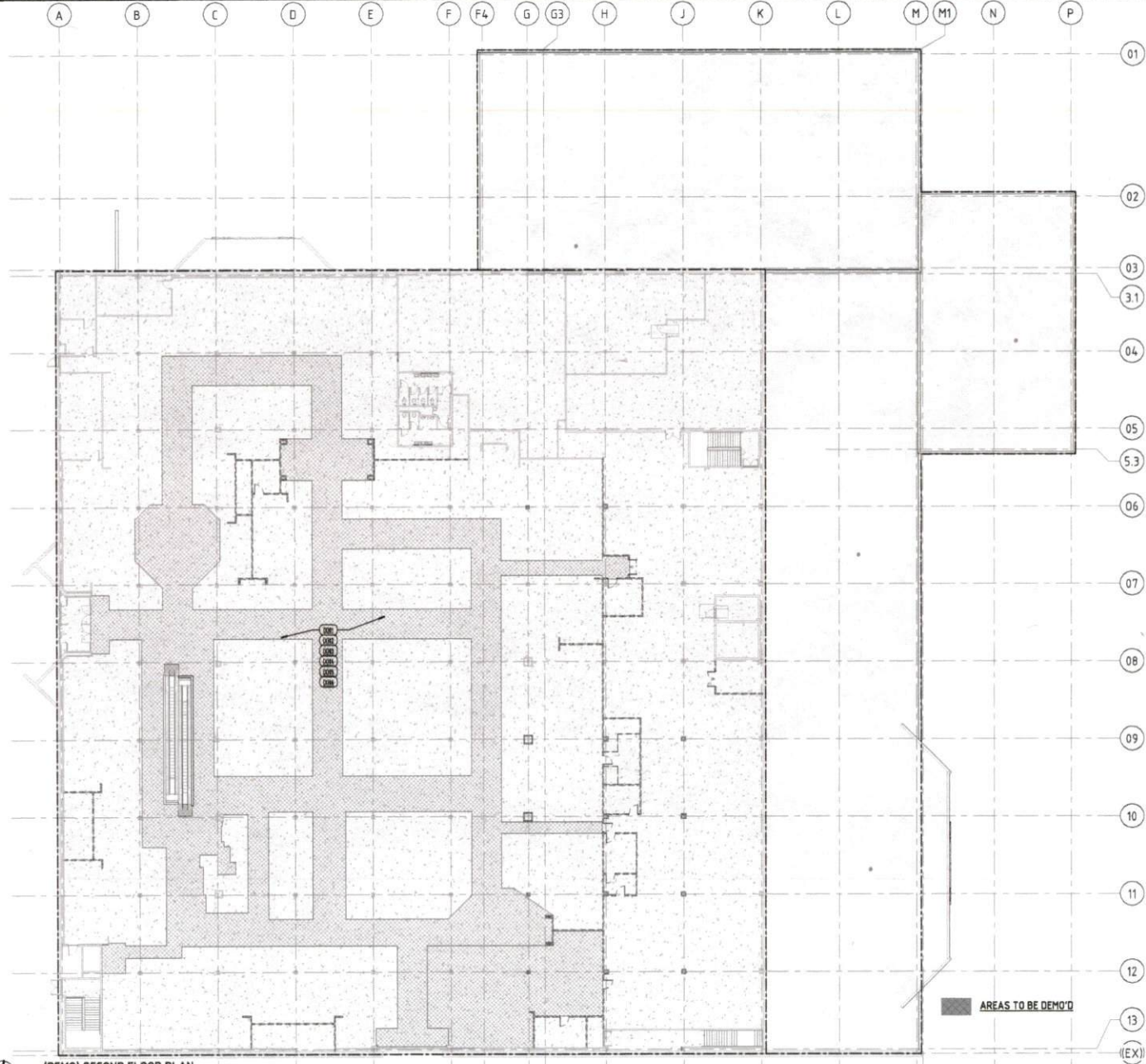
24152
BIG ENTERTAINMENT
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THE CROSSROADS MALL
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DEMO PERMIT
(DEMO) FIRST FLOOR PLAN
12.04.2024

REV
REV NOTE DATE

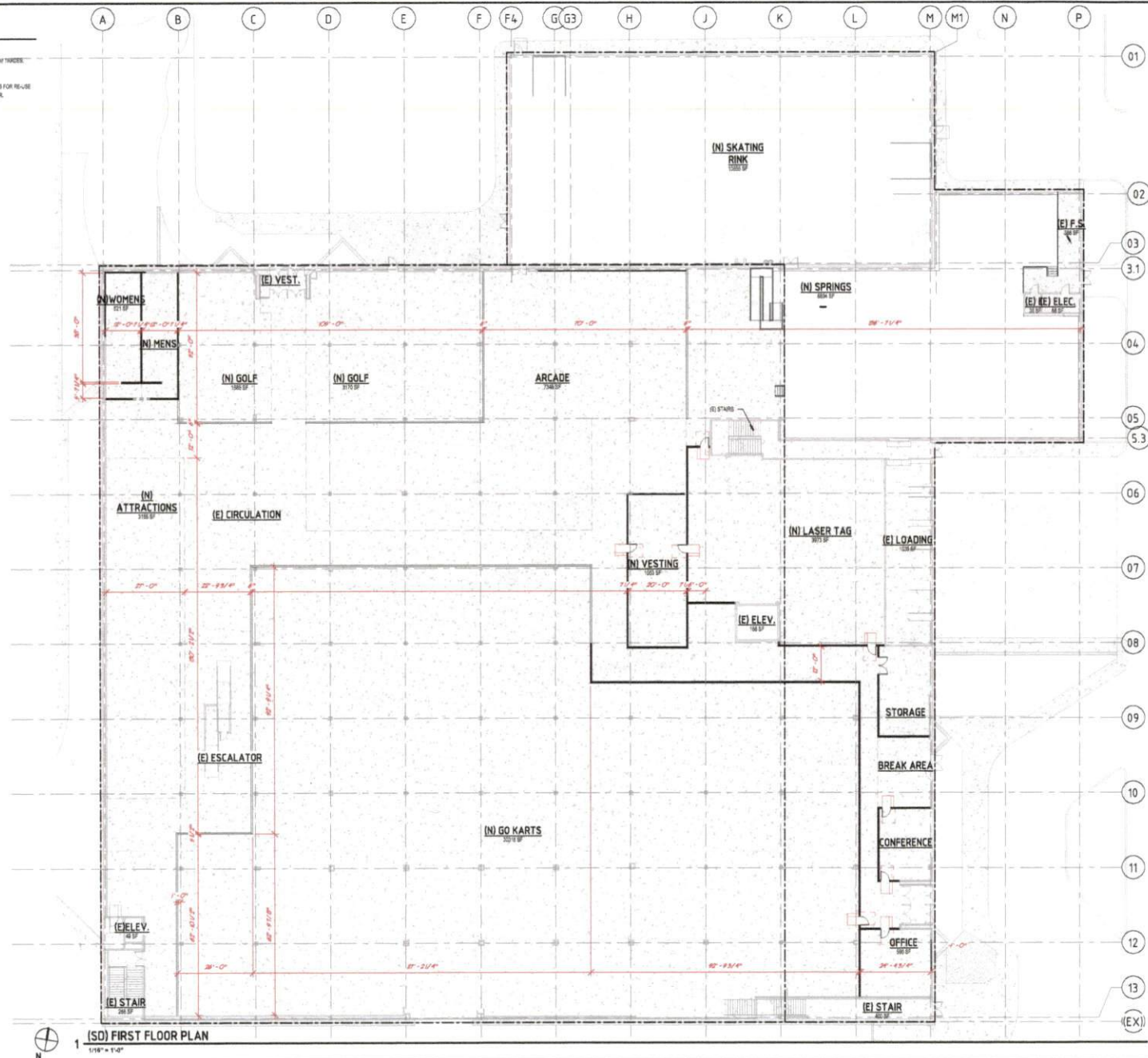
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PLAN NOTES

TAB	NOTE CONTENT
001	DEMOLITION AND DEMO AS SHOWN
002	SHUT OUT AND TRENCH (S.O.C.) REQUIRED FOR UNDERGROUND UTILITIES COORDINATE WITH TRADES
003	REMOVE AND SCAP ALL (S) FINISHES AND PREP FOR FINISHES
004	CUT BACK AND REMOVE ALL UNLINED ELECTRICAL
005	REMOVE EXISTING ALLS AND EQUIPMENT AS NOTED; BALANCE EQUIPMENT AND DIFFUSERS FOR REUSE
006	SHUT OUT AND TRENCH (S.O.C.) AS NOTED FOR GLYCOL LINES; REFER TO GLYCOL VENDOR
007	FIRE ALARMS EXISTING TO REMAIN
008	REFER TO FIRE ALARM SHOP DRAWINGS
009	FIRE SUPPRESSION EXISTING TO REMAIN



TAJ	NOTE CONTENT
0001	CEILING JOINTS AND JOISTS AS SHOWN
0002	SAW OUT AND TRENCH (ECC) AS REQD FOR UNDERGROUND UTILITIES. COORDINATE W/ TRACER.
0003	REMOVE AND SCRAP ALL (E) W/IRMS AND FIBER FOR (E) FINISHES
0004	CUT BACK AND TRENCH ALL UNUSED ELECTRICAL
0005	REMOVE (E) CABLES AND DISPOSERS AS REQD. SALVAGE EQUIPMENT AND DISPOSERS FOR RE-USE
0006	SAW OUT AND TRENCH (ECC) AS REQD FOR (E) TOL. LINES REFER TO (E) TOL. VENDOR.
0007	FIRE ALARM EXISTING TO REMAIN
0008	REFER TO FIRE ALARM SHOP DRAWINGS
0009	FIRE SUPPRESSION EXISTING TO REMAIN



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(SCHEMATIC) FIRST FLOOR
PLAN
12.04.2024
REV

X03

LARA Corporations
Online Filing System
Department of Licensing and Regulatory Affairs

Form Revision Date 07/2016

ARTICLES OF INCORPORATION
For use by DOMESTIC PROFIT CORPORATION

Pursuant to the provisions of Act 284, Public Acts of 1972, the undersigned executes the following Articles:

ARTICLE I

The name of the corporation is:

ZAP ZONE XL LTD.

ARTICLE II

Unless the articles of incorporation otherwise provide, all corporations formed pursuant to 1972 PA 284 have the purpose of engaging in any activity within the purposes for which corporations may be formed under the Business Corporation Act. You may provide a more specific purpose:

ARTICLE III

1. State the total authorized shares of each class of stock that the corporation is authorized to issue. All corporations must authorize stock.* If there is more than one class or series of shares, state the relative rights, preferences and limitations of the shares of each class in Article III(2).

Class of Stock	Total authorized number of shares
COMMON	60,000

ARTICLE IV

The street address of the registered office of the corporation and the name of the resident agent at the registered office (P.O. Boxes are not acceptable):

- Agent Name: MOHAMED HAFEZ
- Street Address: 4126 RIVER COVE DRIVE
Apt/Suite/Other:
City: LANSING
State: MI Zip Code: 48917
- Registered Office Mailing Address:
P.O. Box or Street Address: 4126 RIVER COVE DRIVE
Apt/Suite/Other:
City: LANSING
State: MI Zip Code: 48917

ARTICLE V

The name(s) and address(es) of the incorporator(s) is (are) as follows:

Name	Residence or Business Address
MOHAMED HAFEZ	4126 RIVER COVE DRIVE, LANSING, MI 48917 USA

ARTICLE VI

When a compromise or arrangement or plan of reorganization of this corporation is proposed between this corporation and its creditors or any class of them or between this corporation and its shareholders or any class of them, a court of equity jurisdiction within the state, on application of this corporation or of a creditor or shareholder thereof, or an application of a receiver appointed for the corporation, may order a meeting of the creditors or class of creditors or of the shareholders or class of shareholders to be affected by the proposed compromise or arrangement or reorganization, to be summoned in such manner as the court directs. If a majority in number representing 3/4 in value of the creditors or class of creditors, or of the shareholders or class of shareholders to be affected by the proposed compromise or arrangement or a reorganization, agree to a compromise or arrangement or a reorganization of this corporation as a consequence of the compromise or arrangement, the compromise or arrangement of the reorganization, if sanctioned by the court to which the application has been made, shall be binding on all the creditors or class of creditors, or on all the shareholders or class of shareholders and also on this corporation.

ARTICLE VII

Any action required or permitted under the Act to be taken at an annual or special meeting of shareholders may be taken without a meeting, without prior notice, and without a vote, if consents in writing, setting forth the action so taken, are signed by the holders of outstanding shares that have at least the minimum number of votes that would be necessary to authorize or take the action at a meeting at which all shares entitled to vote on the action were present and voted. A written consent shall bear the date of signature of the shareholder that signs the consent. Written consents are not effective to take corporate action unless within 60 days after the record date for determining shareholders entitled to express consent to or to dissent from a proposal without a meeting, written consents dated not more than 10 days before the record date and signed by a sufficient number of shareholders to take the action are delivered to the corporation. Delivery shall be to the corporation's registered office, its principal place of business, or an officer or agent of the corporation that has custody of the minutes of the proceedings of its shareholders. Delivery made to a corporation's registered office shall be by hand or by certified or registered mail, return receipt requested.

Prompt notice of taking of the corporate action without a meeting by less than unanimous written consent shall be given to shareholders that would have been entitled to notice of the shareholder meeting if the action had been taken at a meeting and that have not consented to the action in writing. An electronic transmission consenting to an action must comply with Section 407(3).

Signed this 20th Day of September, 2024 by the incorporator(s).

Signature	Title	Title if "Other" was selected
Mohamed Hafez	Incorporator	

By selecting ACCEPT, I hereby acknowledge that this electronic document is being signed in accordance with the Act. I further certify that to the best of my knowledge the information provided is true, accurate, and in compliance with the Act.

☐ Decline ☒ Accept

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
FILING ENDORSEMENT

This is to Certify that the ARTICLES OF INCORPORATION
for

ZAP ZONE XL LTD.

ID Number: 803275780

received by electronic transmission on September 20, 2024, ***is hereby endorsed.***

Filed on September 23, 2024, ***by the Administrator.***

The document is effective on the date filed, unless a subsequent effective date within 90 days after received date is stated in the document.



In testimony whereof, I have hereunto set my hand and affixed the Seal of the Department, in the City of Lansing, this 23rd day of September, 2024.

Linda Clegg

Linda Clegg, Director
Corporations, Securities & Commercial Licensing Bureau

Affadavit of Mohamed Hafez

State of Michigan

County of Eaton

Before the undersigned, an officer duly commissioned by the laws of the state of Michigan, on this

6 day of December, 2024, personally appeared Mohamed Hafez, known to me to be a credible

person and of lawful age, who having been first duly sworn, depose and say:

1. I am the president of Zap Zone XL, LTD.
2. Zap Zone XL, LTD. has adopted a corporate resolution dictating those who may sign on behalf of the corporation for all matters, especially those for the application of a liquor license.
3. Mohamed Hafez, Craig Goschka, and Mujahid Qatum may sign on behalf of the corporation for the above matters.

Further affiant saith not.


Signature

MOHAMED HAFEZ
Name

4126 River Cove Dr. Lansing, MI 48917
Address

Witness: Michael T. Witten

Subscribed and sworn to before me on this 6 day of December, 2024

Signature: Michael T. Witten (Seal)

Notary Public: My commission expires August 7, 2025

MICHAEL T. WITTEN
NOTARY PUBLIC - MICHIGAN
INGHAM COUNTY
MY COMMISSION EXPIRES 08/07/25
ACTING IN Eaton COUNTY

Affadavit of Mohamed Hafez

State of Michigan

County of Eaton

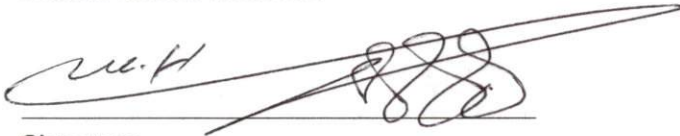
Before the undersigned, an officer duly commissioned by the laws of the state of Michigan, on this

6 day of December, 2024, personally appeared Mohamed Hafez, known to me to be a credible

person and of lawful age, who having been first duly sworn, depose and say:

1. I am the president of Zap Zone XL, LTD.
2. Zap Zone XL, LTD. has established a group of officers and board of directors
3. Mohamed Hafez is to serve in the role of president
4. Ghazwan Ismail is to serve in the role of vice-president
5. Craig Goschka is to serve in the role of treasurer
6. Mujahid Qatum is to serve in the role of secretary
7. Ghelan Ismail is to serve in the role of assistant secretary

Further affiant saith not.



Signature

MOHAMED HAFEZ

Name

4126 River Cove Dr. Lansing, MI 48917

Address

Witness: Michael T. Witten

Subscribed and sworn to before me on this 6 day of December, 2024

Signature: Michael T. Witten (Seal)

Notary Public: My commission expires August 7, 2025

MICHAEL T. WITTEN
NOTARY PUBLIC - MICHIGAN
INGHAM COUNTY
MY COMMISSION EXPIRES 08/07/25
ACTING IN Eaton COUNTY

STATE OF MICHIGAN



SPECIAL TRIBUTE

To

Zap Zone XL
2024 Delta Township Community Enhancement Award

LET IT BE KNOWN, That in grateful recognition of the loyal service in serving the people of Delta Township, Zap Zone XL has been selected to receive the 2024 Delta Township Community Enhancement Award. On behalf of everyone who has benefited directly from the work of this outstanding organization, we offer our congratulations and thanks on this well-deserved acknowledgment of excellence.

In Delta Township, Zap Zone XL has had a profound impact on the community through their investment of over \$20 million to transform and revitalize the former retail space in the Lansing Mall into an interactive amusement destination for Mid-Michigan residents. In receiving the Delta Township Community Enhancement Award, Zap Zone XL is being recognized for their hard work that has made this reputation possible and provides a model for others to follow in the community.

IN SPECIAL TRIBUTE, Therefore, This document is signed and dedicated to congratulating Zap Zone XL for receiving the 2024 Delta Township Community Enhancement Award. May the future bring great success and satisfaction.



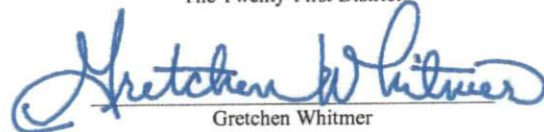
Angela Witwer, State Representative
The Seventy-Sixth District



Sarah E. Anthony, State Senator
The Twenty-First District



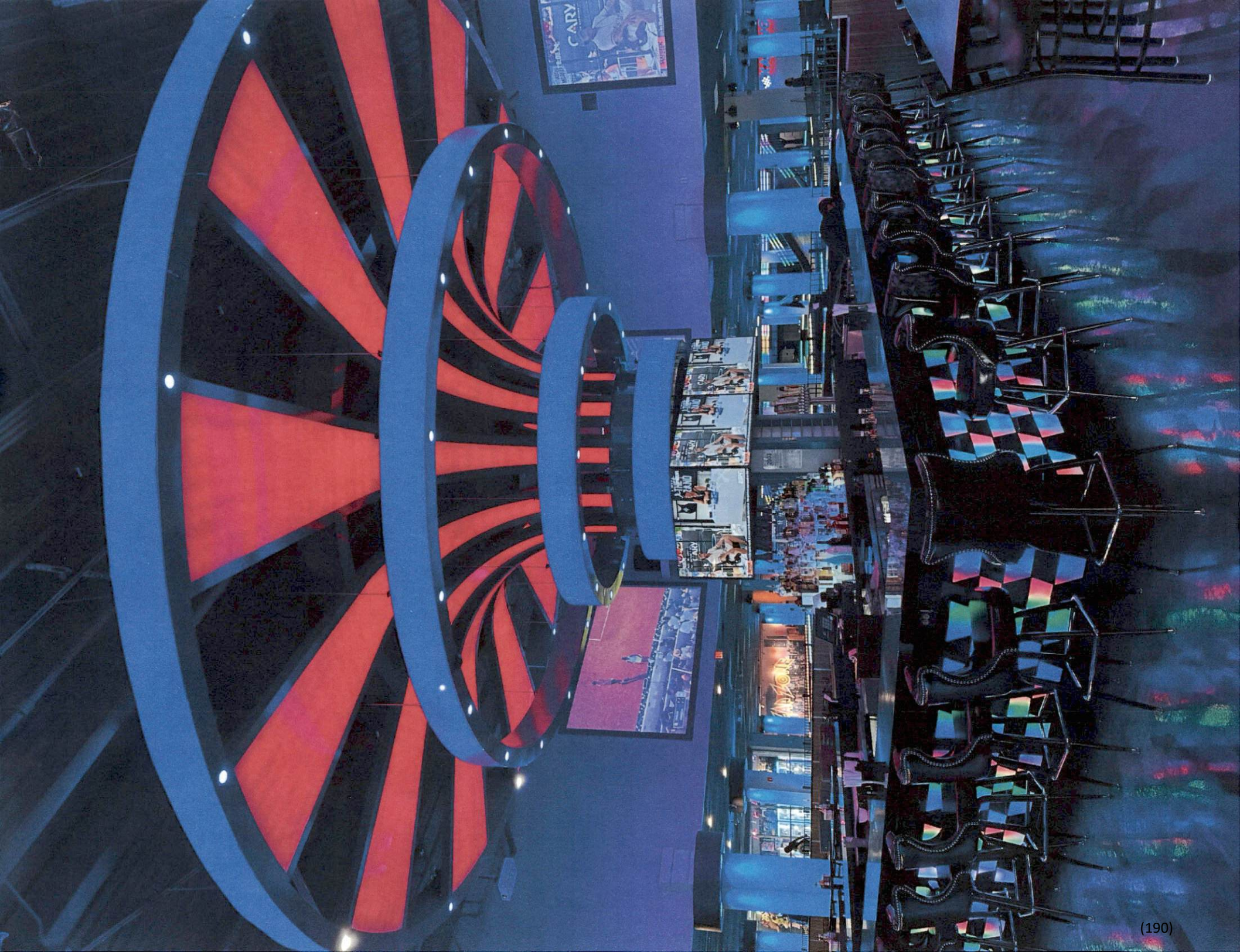
Garlin Gilchrist II
Lieutenant Governor



Gretchen Whitmer
Governor

The One Hundred and Second Legislature
At Lansing
Tuesday, November 12, 2024





















Class C Liquor License Applicant Comparison

Business	Address	Applicant	Type	Application Date	Treasury	Building	Fire	Econ. Dev.	Police
Vina Nails	7792 Oakland	Mr. Cong Le	Existing Nail Spa	10/30/2024	No issues	No issues	No issues	a. No new capital investment as tenant has been at current location five years. b. No indication of # employees currently or future because of a tavern license. c. Tenant is a lessee, and location is subject to change. d. Tenant represents a stable neighborhood service enterprise for the surrounding area. e. Female target audience diminishes client base. f. It is unlikely that alcoholic beverage service will significantly increase business at the location without dining and/or food pairings. g. Oakland Drive is not a primary commercial corridor.	Investigation completed; no negative information identified.
Stubble & Stache, LLC	161 W. Centre	Ms. Carol Cormier	New Barbershop/ Speakeasy Lounge	11/18/2024	No issues	No issues	No issues	a. New tenant contributing to vitality of the Portage Centre Plaza. Capital investment: \$150,000 (\$53.57/sq.ft). b. Employment of 15-20 people. Unsure as to whether full-time or part-time. c. Service is classified as neighborhood retail. Concept is more upscale and may bring in higher dollar expenditure per client than an average hair salon. d. Unique concept may become a draw. e. No dining/food pairings so less likely to be a draw on its own. f. Male target audience reduces client base.	Investigation completed; no negative information identified.
Zap Zone XL	6780 S. Westnedge	Zap Zone Corp.	Family Entertainment Facility	12/9/2024	2024 winter property taxes due 2/14/2025 totaling \$11,921.51 Finance/Treasury has no issues with this request.	No issues	No issues	a. Capital investment undisclosed but anticipated to be significant (156,00 sq.ft) b. 150 new jobs. Unsure as to whether full-time or part-time. c. Dining and bar area seating 300-400 people. d. Established business model (11 locations) with 3 other locations that have liquor licenses. e. Primary retail/service corridor; applicant is filling a vacant anchor tenant location at a regional mall. Can stand on its own without the existing mall. f. Versatile target audiences with multiple revenue streams.	Still Pending.

Minutes of Boards & Commissions

CITY OF PORTAGE HUMAN SERVICES BOARD

Minutes of the Meeting – October 3, 2024

Conference Room 1

CALL TO ORDER: The City of Portage Human Services Board meeting of October 3, 2024, was called to order by Chairperson Brooke Kolodzieczyk, at 5:31 p.m. in Conference Room 1, Portage City Hall, 7900 S. Westnedge Avenue, Portage MI.

MEMBERS PRESENT: Chairperson Brooke Kolodzieczyk, Vice Chair Candace Wise, Ashley Vosburgh, Julie Pryor, Chelsea Huber, Pamela Kanouse, Martha Perry

STAFF PRESENT: Tina Perry

APPROVAL OF MINUTES: The Minutes of September 5, 2024, were approved by a motion, made by Ashley Vosburgh and supported by Pamela Kanouse. The motion passed unanimously.

NEW BUSINESS: Chairperson Brooke Kolodzieczyk reviewed the FY25-26 human service funding application point by point explaining the reasons for the questions. The goal being to keep it simple enough to collect the necessary data to make a good funding, while not being too cumbersome for organizations. Perry provided an example on how to use the ranking sheet to come up with the points total per organization. That total then gets placed on a master sheet which totals the ranking order of applications in order of highest to lowest scores. The scores are one tool used to make funding decisions. The open house in November is a valuable avenue for members to meet and become familiar with organizations.

OTHER BUSINESS: Ashley Vosburgh explained her numerous outreaches promoting Red Ribbon Week. She met with Council Member Jihan Young and reached out to schools to recruit people to read the proclamation at the city council meeting on October 22. Chairperson Brooke Kolodzieczyk offered suggestions to assist including outreach to Troop 227.

ADJOURN: Motion to adjourn was made at 6:09 p.m. by Chairperson Brooke Kolodzieczyk, supported by Martha Perry, and unanimously supported 7-0.

Respectfully Submitted,



Tina Perry

Neighborhood and Housing Specialist Community Development, City of Portage

T:\COMMDEV\2024-2025 Department Files\Board Files\Human Services Board\Minutes\2024 10 03 HSB Minutes.docx

Attendance: David M., Mike S. (Liaison), Justin (Liaison) Marty, Wendy, Deirdre, Lauren, David L.

Excused: Joe

Unexcused: None

Guests: Deb Fryman

7:00 PM Welcome and introduction of guests

- Motion to start (LT), seconded (DM) – moved forward unanimously.

7:01 PM Public Comment Period

Deb Fryman thanked the board for their Clean Energy - efforts and progress with the city citing the current installation of Solar Panels on City Hall.

7:02 PM Approval of September Minutes

- Motion to approve (DL); seconded (DM) – so moved.

7:06 PM Subcommittee Meetings

- Bee City – need a City liaison, Kathlynn Hoyle will serve that role for Bee City.
- Green Week - Wendy met with Annie Pryor and noted that the Parks Department and other friend groups would be interested in any and all support of ongoing planned activities. A sign up list with dates is following for circulation and reminders each month for members to participate.

7:09 PM Review comments to Special Rules and Procedures

- Comments and notes following:
- JAll members: Review the rules of Procedure, review each comment.
- Section 1 - approved to include Secretary.
- Section 5 - leave as is. "ideally".
- Section 6 (a) "and" is the choice. (b)leave the wording as is with 8.
- Section 7 (a) change in role/minutes change in course of meeting...assumed in next regularly scheduled meeting.
- Section 7 (b) submittal of a written notice for nomination and intent of role choice is allowed if not present for nomination to board. Shall be emailed to Chairperson, Vice Chair or Secretary. Those intents shall be provided to all members, prior to Elections.
- Section 7 (e,i)leave as written and also a member may abstain.
- Section 9 -(©)leave
- Section 9-(d)board member.
- Section 10 -(©)once approved by the Board then city council will approve changes and adopt.
- Section 11 -(f) change to misconduct.
- Section 12 -legalize leave as such.
- Section 13 text or e-mail or phone call to City liasion or chairperson.
- Section 15 - are encouraged to review.

- **Process—Once the board approves the document, the City Manager’s Office will review it and then submit it to the City Council for a vote. Then, new changes to the document must go through the approval process.**

7:55 PM Follow up on electrification and vehicles update? Jamie or Mike to check status of city use and purchases and provide update.

8:00 PM Open discussion, establish items for the November Meeting.

**Justin- The Environmental board is invited to the City Council meeting for Solar Panel for electrification. Meeting on 12/17/24 for the start up and implementation.
Demonstration for usage, volts/amps, etc. energy savings and efficiency.**

8:08 PM Lauren to update agenda and include Bee City and calendar planning and goal setting for next year. Reminder elections next month in November, ensure your intent if not available to attend on what desired position to Lauren or a City Liaison prior to the meeting.

8:11 PM Motion to adjourn (LT) seconded (DL), so moved.



**City of Portage
Board of Review—2024 December Session**

Official Session Minutes – December 10, 2024

Panel Members present: 2 members – Board Chair Keith Hearit, Board Vice-Chair Carol Eddy

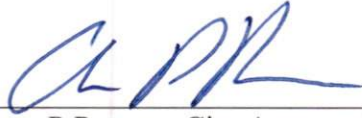
Panel Members absent: Board Member Amanda Bengston

Others present: Aaron Powers, City Assessor/Board Secretary; Andrew Falkenberg, Deputy Assessor/WCA Regional Assessing Manager; Venus Buller, WCA Appraiser

1. **Call to order** – by Keith Hearit, Board Chair, at 9:04 a.m. noting that the meeting has been properly noticed as required by state law.
2. **Determination of quorum.** The Secretary determined and announced that a quorum of at least two members of the selected three-member panel is present. Note: This is pursuant to the following action taken by the full Board at its session held March 26, 2024: *The Chair and Secretary shall determine the dates, times, and locations of the 2024 July and December sessions, and the Secretary shall properly issue and post notices of those sessions. The Chair, upon consultation with the Secretary, shall select three-member panels to constitute the July and December sessions of the Board, and such panels are hereby authorized to consider and decide on all matters properly brought before them, including approval of the minutes of those sessions as part of the final adjournment. Attendance by two of the three members of those panels shall constitute a quorum, and the Chair shall have full power to replace panel members as necessary.*
3. **Motion to excuse Member Bengston** – Motion made to excuse Member Bengston. Motion passed unanimously by a voice vote.
4. **Public comment period.** There was none.
5. **Review of Board's Authority for July and December Sessions.** The Secretary reviewed the Board's authority to act in its July and December sessions.
6. **Consideration of Items for Decision.** The Secretary presented the various decision items for the panel's consideration, consisting of the qualified errors, poverty exemption requests, and other items as detailed on the attached listing, hereby made a part of these minutes. The panel considered each item before it and approved the Assessor's recommended action. The form confirming each adjustment was signed by the Board members.

7. **Correspondence.** The Secretary announced that no correspondence was received other than the items already considered.
8. **Recess.** MOTION by Board Chair Hearit, supported by Board Vice-Chair Carol Eddy to recess the panel briefly while the Secretary prepared the minutes of this meeting.
9. **Final Action.** The presiding Board Chair reconvened the panel. The Secretary presented the minutes of this meeting. MOTION by Board Chair Hearit, supported by Board Vice-Chair Carol Eddy, to approve the minutes of this meeting (including this motion and the session adjournment) and to declare the final adjournment of the 2024 December Session of the Board of Review; motion carried unanimously, and the Board Chair declared final adjournment of the 2024 December Session, at 9:35 a.m.

Prepared December 10, 2024



Aaron P Powers, City Assessor/Board Secretary



Keith Hearit, Board Chair

TO: Honorable Mayor and City Council

FROM: Pat McGinnis, City Manager

SUBJECT: Industrial Tax Abatement Application - Summit Polymers, Inc. at 6615 South Sprinkle Road

SUPPORTING PERSONNEL: Peter Dame, Chief Development Officer
Aaron Powers, City Assessor
Lauren VanderVeen, Finance Director
Jonathon Hallberg, Deputy Director of Economic Development

ACTION RECOMMENDED: Following the public hearing, consider:

- a. approving the application from Summit Polymers, Inc. for an Industrial Tax Abatement for the property addressed at 6615 South Sprinkle Road;
- b. adopting the Resolution for an Industrial Facilities Exemption Certificate for Summit Polymers, Inc. as part of existing District #97.

Attached is a request from Summit Polymers, Inc., to receive an Industrial Facilities Tax Exemption Certificate at 6615 South Sprinkle Road for a six-year real property tax abatement. Summit Polymers is requesting to receive this exemption to be included as part of the existing Industrial Development District (IDD) No. 97. As the Council will recall, the city consolidated its various individual industrial development districts in April 2024 to streamline the application process for abatement applicants, who only need to apply for exemption certificates in one of the six resulting, similarly-zoned districts (#95-100).

Jim Haas founded Summit Polymers, Inc. in his garage in 1972 to answer overflow needs from established mold shops, including automotive parts, toys, lawn equipment, and RV parts. Two years later, Summit relocated to its current location on Sprinkle Road. Summit Polymers is now a primary supplier of plastic injection molding (Tier 1 level) parts for vehicle interiors, including manually operated and decorative components and systems for cars and trucks, such as air conditioner registers, steering column covers, cup holders, switch bases and glove compartments. Summit now has more than 3,000 employees at 18 locations worldwide, supplying operations for General Motors, Ford, Fiat/Chrysler, Stellantis, and more.

Summit Polymers is proposing the construction of an additional 20,000 square feet to the existing facility that has been in use since 2003. The planned investment of \$3.14 million in improvements is expected to result in five additional full-time jobs on site, with each position receiving around \$77,303 annually. The goal of the facility expansion is intended to increase machinery construction and pre-production build purposes for Summit's decorative interior automotive parts manufacturing. Permitted construction began

in June 2024 and is slated to be finished by the end of the year.

Therefore, it is recommended that City Council consider approving the application from Summit Polymers, Inc. for an Industrial Tax Abatement for the property addressed at 6615 South Sprinkle Road and adopting the Resolution for an Industrial Facilities Exemption Certificate for Summit Polymers, Inc. as part of existing District #97.

FUNDING: N/A

Attachments:

1. Resolution #4
2. Full Application Packet
3. Affidavit With Regard To Fees
4. Tax Abatement Agreement
5. Resolution No. 1-2024
6. Resolution No. 2-2024

**CITY OF PORTAGE, MICHIGAN
RESOLUTION NO. 4**

**APPROVING THE APPLICATION OF
SUMMIT POLYMERS, INC.
INDUSTRIAL FACILITIES EXEMPTION CERTIFICATE
FOR THE FACILITY IN PORTAGE INDUSTRIAL DEVELOPMENT
DISTRICT NO. 97**

Minutes of a regular meeting of the City Council of the City of Portage, Michigan held on the 17th day of December, 2024 at 6:00 p.m., local time at the City Hall in the City of Portage.

PRESENT: _____

ABSENT: _____

The following resolution was offered by:

Councilmember _____, and supported by

Councilmember _____.

WHEREAS, pursuant to 1974 PA 198, MCLA Sec. 207.551 et seq., after a duly noticed public hearing held on the 9th day of April, 2024, this Council by resolution, established Portage Industrial Development District No. 97 and that SUMMIT POLYMERS, INC. owns property within said District; and;

WHEREAS, by resolution adopted December 3, 2024, the City Council accepted the application of SUMMIT POLYMERS, INC. for an Industrial Facilities Exception Certificate for a new facility in the Portage Industrial Development District No. 97, and directed the City Clerk to notify the City Assessor and the legislative body of each taxing unit that levies ad valorem taxes on the property located within said Industrial Development District No. 97, that the application for the Facilities Exemption Certificates would be considered at a meeting of the City Council on December 17, 2024, and that an opportunity to be heard would be provided to the Assessor and a representative of each of the bodies so notified; and

WHEREAS, during a regular meeting of the City Council held on December 17, 2024, the applicant, the Assessor, and a representative of the affected taxing units were afforded an opportunity to be heard.

NOW THEREFORE BE IT RESOLVED AS FOLLOWS:

1. That this City Council finds:

- (a) That the construction of the facility had not begun earlier than six (6) months before November 1, 2024, the date of acceptance of the application for the Industrial Facilities Exemption Certificate;
- (b) That the application relates to a program which, when completed, will constitute a new facility within the meaning of 1974 PA 198 and will be situated in Portage Industrial Development District No. 97 established in Portage on April 9, 2024 by resolution of the City Council;
- (c) That completion of facility is calculated to, and will at the time of issuance of the certificates, have the reasonable likelihood to create employment, retain employment, or prevent a loss of employment in the City of Portage.
- (d) That the application applies to a new facility;
- (e) That the aggregate SEV of real exempt from ad valorem taxes within the City of Portage, after granting this certificates, will be 7.25 percent of an amount equal to the sum of SEV of the City plus the SEV of real property thus exempted; however, the City Council specifically finds that the granting of the exemption applied for will not substantially impede the operation of, or impair the financial soundness of, any unit of local government.

That the application of SUMMIT POLYMERS, INC. for the Industrial Facilities Exemption Certificate with regard to the construction of a new facility located in Portage Industrial Development District No. 97 be and is hereby approved for a period of six (6) years for the building (real property) with an ending date of December 31, 2030, and is conditioned upon execution of an agreement between SUMMIT POLYMERS, INC. and the City. SUMMIT POLYMERS, INC. may, within the final year in which the certificates are effective, apply for another certificate. If the City disapproves of said application, there is no right of appeal of that decision.

2. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

ADOPTED:

AYES: COUNCILMEMBER _____

NAYS: COUNCILMEMBER _____

ABSENT: COUNCILMEMBER _____

Erica Eklov, City Clerk

Certificate

I hereby certify that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the City Council of the City of Portage, Michigan, Kalamazoo County, held on the 17th day of December, 2024, the original of which is in the official proceedings of the City Council.

Erica Eklov, City Clerk

Prepared by:
Catherine P. Kaufman
Portage City Attorney
Bauckham, Sparks, Thall, Seeber
& Kaufman, PC
470 W. Centre Ave., Ste. A
Portage, MI 49024

Approved as to Form:

Date: 12-11-2024

By: Catherine P. Kaufman

City Attorney



Summit Polymers

City of Portage
Attn: City Clerk, Ms. Erica Eklov
Portage City Hall
7900 South Westnedge Avenue
Portage, Michigan 49002

Re: 6615 South Sprinkle Road, Portage, Michigan (Parcel Number: 00012-116-A)

Ms. Eklov:

Sprinkle Engineering Building, LLC, a wholly owned subsidiary of Summit Polymers, Inc. (collectively the "Company") operates an automotive parts manufacturing business from its facility located at 6615 South Sprinkle Road, Portage, Michigan (the "Facility"). The Company is planning an expansion of the Facility and a significant investment in additional equipment, furniture, fixtures, and machinery. In connection with the proposed expansion and investment, please find enclosed the following review and consideration:

1. An Application for Industrial Facilities Tax Exemption Certificate for the Facility
2. A check in the amount of \$2,000 for the application fee
3. A site layout that shows the existing facility and expansion area
4. Legal descriptions of the existing footprint of the Facility and the expansion area
5. Environmental Compliance Statement
6. Jobs and Compensation Schedule, and
7. New Equipment List

By way of background, the Company has been operating from the Facility since 2003. The Company is growing and desires to add approximately 20,000 square feet to the Facility. As shown on the enclosed drawings, the expansion would consist of a single story. The addition is expected to cost approximately \$2,143,492 and would be used for machinery construction (increased sales of approximately \$2.5M) and pre-production build purposes in furtherance of the Company's decorative interior automotive parts manufacturing business.



Summit Polymers

The expansion would also result in an investment of approximately \$694,005 in new machinery and personal property. A more specific list of equipment is enclosed with this letter.

Most importantly, the expansion would enable the Company to add approximately 5 full-time jobs to the Facility. The additional jobs would increase the workforce at the Facility from 26 (25 full-time and 1 part-time) jobs to 31 (30 full-time and 1 part-time) jobs.

It is noted that an industrial development district was previously established. The enclosed drawings and legal descriptions show the existing Facility and expansion area will be in the previously established industrial development district.

The Company has already started construction and would like to move forward as quickly as possible. The Company believes the enclosed information satisfies the application requirements and hope it can be considered by City Council as soon as possible. If there are any deficiencies, or if City staff needs more information to fully evaluate the application, the Company will provide it as quickly as possible.

Thank you in advance for your time and consideration with respect to the enclosed Application. The Company looks forward to presenting the Application, and the opportunities it presents for the City of Portage, to the City Council.

Please contact me with questions. I look forward to hearing from you soon.

Very truly yours,

Summit Polymers, Inc.

Christopher Bergman

Application for Industrial Facilities Tax Exemption Certificate

Issued under authority of Public Act 198 of 1974, as amended. Filing is mandatory.

INSTRUCTIONS: File the completed application and the required attachments with the clerk of the local government unit. If you have any questions regarding the completion of this form, call 517-335-7491.

To be completed by Clerk of Local Government Unit	
Signature of Clerk <i>Erica J. Ekko</i>	► Date Received by Local Unit 11/1/2024
STC Use Only	
► Application Number	► Date Received by STC

APPLICANT INFORMATION

All boxes must be completed.

► 1a. Company Name (Applicant must be the occupant/operator of the facility) SUMMIT POLYMERS, INC.		► 1b. Standard Industrial Classification (SIC) Code - Sec. 2(10) (4 or 6 Digit Code) 3714-01	
► 1c. Facility Address (City, State, ZIP Code) (real and/or personal property location) 6615 S SPRINKLE RD, PORTAGE, MI 49002		► 1d. City/Township/Village (indicate which) CITY OF PORTAGE	► 1e. County KALAMAZOO
► 2. Type of Approval Requested ☒ New (Sec. 2(5)) ☐ Transfer ☐ Speculative Building (Sec. 3(8)) ☐ Rehabilitation (Sec. 3(6)) ☐ Research and Development (Sec. 2(10)) ☐ Increase/Amendment		► 3a. School District where facility is located PORTAGE	► 3b. School Code 39140
		4. Amount of years requested for exemption (1-12 Years) SIX (6) YEARS	

5. Per section 5, the application shall contain or be accompanied by a general description of the facility and a general description of the proposed use of the facility, the general nature and extent of the restoration, replacement, or construction to be undertaken, a descriptive list of the equipment that will be part of the facility. Attach additional page(s) if more room is needed.

SEE ATTACHMENT

6a. Cost of land and building improvements (excluding cost of land)	► \$3,143,493
* Attach list of improvements and associated costs. * Also attach a copy of building permit if project has already begun.	
6b. Cost of machinery, equipment, furniture and fixtures	►
* Attach itemized listing with month, day and year of beginning of installation, plus total	
6c. Total Project Costs	► \$3,143,493
* Round Costs to Nearest Dollar	
Total of Real & Personal Costs	

7. Indicate the time schedule for start and finish of construction and equipment installation. Projects must be completed within a two year period of the effective date of the certificate unless otherwise approved by the STC.

	Begin Date (M/D/Y)	End Date (M/D/Y)	
Real Property Improvements	► 06/18/2024	12/31/2024	► ☒ Owned ☐ Leased
Personal Property Improvements	► 06/18/2024	12/31/2024	► ☒ Owned ☐ Leased

► 8. Are State Education Taxes reduced or abated by the Michigan Economic Development Corporation (MEDC)? If yes, applicant must attach a signed MEDC Letter of Commitment to receive this exemption. ☐ Yes ☒ No

► 9. No. of existing jobs at this facility that will be retained as a result of this project. 25 full-time and 1 part-time	► 10. No. of new jobs at this facility expected to create within 2 years of completion. 5 full-time
---	--

11. Rehabilitation applications only; Complete a, b and c of this section. You must attach the assessor's statement of SEV for the entire plant rehabilitation district and obsolescence statement for property. The Taxable Value (TV) data below must be as of December 31 of the year prior to the rehabilitation.

a. TV of Real Property (excluding land)	_____
b. TV of Personal Property (excluding inventory)	_____
c. Total TV	_____

► 12a. Check the type of District the facility is located in:
☒ Industrial Development District *97* ☐ Plant Rehabilitation District

► 12b. Date district was established by local government unit (contact local unit)	► 12c. Is this application for a speculative building (Sec. 3(8))? ☐ Yes ☒ No
--	---

APPLICANT CERTIFICATION - complete all boxes.

The undersigned, authorized officer of the company making this application certifies that, to the best of his/her knowledge, no information contained herein or in the attachments hereto is false in any way and that all are truly descriptive of the industrial property for which this application is being submitted.

It is further certified that the undersigned is familiar with the provisions of P.A. 198 of 1974, as amended, being Sections 207.551 to 207.572, inclusive, of the Michigan Compiled Laws; and to the best of his/her knowledge and belief, (s)he has complied or will be able to comply with all of the requirements thereof which are prerequisite to the approval of the application by the local unit of government and the issuance of an Industrial Facilities Exemption Certificate by the State Tax Commission.

13a. Preparer Name CHRIS BERGMAN	13b. Telephone Number (269) 352-8568	13c. Fax Number	13d. E-mail Address cbergman@summitpolymers.com
14a. Name of Contact Person CHRIS BERGMAN	14b. Telephone Number (269) 352-8568	14c. Fax Number	14d. E-mail Address cbergman@summitpolymers.com
▶ 15a. Name of Company Officer (No Authorized Agents) ANDREA HAAS			
15b. Signature of Company Officer (No Authorized Agents) 		15c. Fax Number	15d. Date 10/27/24
▶ 15e. Mailing Address (Street, City, State, ZIP Code) 6715 S SPRINKLE RD, PORTAGE, MI 49002-9707		15f. Telephone Number (269) 324-9330	15g. E-mail Address ahaas@summitpolymers.com

LOCAL GOVERNMENT ACTION & CERTIFICATION - complete all boxes.

This section must be completed by the clerk of the local governing unit before submitting application to the State Tax Commission. Check items on file at the Local Unit and those included with the submittal.

▶ 16. Action taken by local government unit ☐ Abatement Approved for _____ Yrs Real (1-12), _____ Yrs Pers (1-12) After Completion ☐ Yes ☐ No ☐ Denied (Include Resolution Denying)		16b. The State Tax Commission Requires the following documents be filed for an administratively complete application: Check or Indicate N/A if Not Applicable ☐ 1. Original Application plus attachments, and one complete copy ☐ 2. Resolution establishing district ☐ 3. Resolution approving/denying application. ☐ 4. Letter of Agreement (Signed by local unit and applicant) ☐ 5. Affidavit of Fees (Signed by local unit and applicant) ☐ 6. Building Permit for real improvements if project has already begun ☐ 7. Equipment List with dates of beginning of installation ☐ 8. Form 3222 (if applicable) ☐ 9. Speculative building resolution and affidavits (if applicable)
16a. Documents Required to be on file with the Local Unit Check or Indicate N/A if Not Applicable ☐ 1. Notice to the public prior to hearing establishing a district. ☐ 2. Notice to taxing authorities of opportunity for a hearing. ☐ 3. List of taxing authorities notified for district and application action. ☐ 4. Lease Agreement showing applicants tax liability.		
16c. School Code		
17. Name of Local Government Body		▶ 18. Date of Resolution Approving/Denying this Application

Attached hereto is an original application and all documents listed in 16b. I also certify that all documents listed in 16a are on file at the local unit for inspection at any time, and that any leases show sufficient tax liability.

19a. Signature of Clerk	19b. Name of Clerk	19c. E-mail Address
19d. Clerk's Mailing Address (Street, City, State, ZIP Code)		
19e. Telephone Number	19f. Fax Number	

State Tax Commission Rule Number 57: Complete applications approved by the local unit and received by the State Tax Commission by October 31 each year will be acted upon by December 31. Applications received after October 31 may be acted upon in the following year.

For faster service, email the completed application and additional required documentation to PTE@michigan.gov.

An additional submission option is to mail the completed application and required documents to:

Michigan Department of Treasury
State Tax Commission
PO Box 30471
Lansing, MI 48909

STC USE ONLY				
▶ LUCI Code	▶ Begin Date Real	▶ Begin Date Personal	▶ End Date Real	▶ End Date Personal

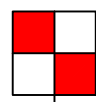
IFT CERTIFICATE APPLICATION, ITEM #5

Summit Polymers, Inc. ("SPI") a Michigan corporation, is a global manufacturer of plastic injection molded, decorative interior automotive components. Incorporated on September 27, 1972, SPI will be celebrating 52 years in Kalamazoo County this year and most of those years in Portage, Michigan. SPI began its Portage residency at 6700 South Sprinkle Road and over the years SPI expanded its operations to new Portage facilities and created new jobs and tax base at 6717 South Sprinkle Road, 4750 Executive Drive and 6615 South Sprinkle Road.

Once again SPI is expanding in Portage at its manufacturing facility at 6615 South Sprinkle Road. Existing operations at 6615 South Sprinkle Road are a Tool Shop and a Build Area. The Tool Shop supports the parts manufacturing plants by designing and building tools and fixtures that support high quality production, efficient operations and employee safety and well-being. The Build Area builds pre-production components, such as prototypes and proof of concepts before final production. The expansion will provide much needed additional manufacturing space (Tool Shop and Build Area), materials storage and office space to keep pace with the SPI's growth in the US and abroad.

Classification	Work To Be Done	Quote #	Vendor	Quoted Price
Building Expansion	200' X 100' Expansion	042424	James Ware Construction Inc.	\$1,266,977
Building Expansion	Frame & Finish 18' X200'	042424	James Ware Construction Inc.	\$346,376
Building Expansion	Install (4) 20 Ton HVAC Units w Pad / Duct Socks	042424	James Ware Construction Inc.	\$208,320
Building Expansion	West Building Face	042424	James Ware Construction Inc.	\$100,510
Building Expansion	Side Wall Insulation South	042424	James Ware Construction Inc.	\$5,175
Building Expansion	Full Heigh Wall Liner (300'X200' Purlins)	042424	James Ware Construction Inc.	\$31,050
Building Expansion	20000 Sq Ft Ceiling Insulation	042424	James Ware Construction Inc.	\$23,000
Building Expansion	40000 Sq Ft Ceiling Liner	042424	James Ware Construction Inc.	\$92,000
Building Expansion	Additional Water Main / Storm Water Connections	042424	James Ware Construction Inc.	\$63,690
Building Expansion	Ceiling Liner	042424	James Ware Construction Inc.	\$36,900
Building Expansion	Demo & Reconnect Small Office	042424	James Ware Construction Inc.	\$7,000
Building Expansion	Additional Bracing in Butler Building (FM)	042424	James Ware Construction Inc.	\$21,654
Building Expansion	Take Down & Remove Crane	042424	James Ware Construction Inc.	\$0
Building Expansion	Remove All Process Pipes	042424	James Ware Construction Inc.	\$6,500
Building Expansion	Remove All Roof Vents	042424	James Ware Construction Inc.	\$8,000
Building Expansion	Remove Interior Wall (+ Conduit & Piping)	042424	James Ware Construction Inc.	\$18,000
Building Expansion	Fire Pump Room / Base / ESFR Upgrade (FM)	042424	James Ware Construction Inc.	\$171,703
Building Expansion	Flooring	042424	James Ware Construction Inc.	\$40,000
Building Expansion	Disconnect & Demo Electrical Connection	060723	ROC Electric	\$850
Building Expansion	Disconnect & Demo Electrical Connection	060723	ROC Electric	\$850
Building Expansion	Install Exhaust Fans / Switches	060723	ROC Electric	\$800
Building Expansion	Fire Pump Room Electrical	Estimated	ROC Electric	\$60,000
Building Expansion	Install Exhaust Fans / Switches	060723	ROC Electric	\$800
Building Expansion	Relocate Air Compressor (Pneumatic)	060623	Vanville	\$2,500
Concrete	Repair Concrete Under Current Tool Room Office Area	Estimated	Burgess Concrete Construction	\$15,000
Demo	Disconnect / Demo Gas Feed (Rapid HV)	Estimated	LaPine HVAC	\$3,500
Demo	Demo Electrical / Wiring From West Wall	060723	ROC Electric	\$6,500
Demo	Disconnect / Demo Power Feed (Rapid HV)	060723	ROC Electric	\$850
Demo	Demo Center Wall Conduit	060723	ROC Electric	\$4,500
Demo	Demo & Discard Current Lighting	060723	ROC Electric	\$3,500
Electrical	Disconnect & Demo Electrical Connection	060723	ROC Electric	\$2,500
Electrical	Relocate Air Compressor (Wiring)	060723	ROC Electric	\$4,500
Electrical	Install Double Door Cooler	060723	ROC Electric	\$750
Electrical	Install (3) Microwaves	060723	ROC Electric	\$1,200
Electrical	Install 75" TV Screen (Wall Mounted)	060723	ROC Electric	\$1,000
Electrical	Install Ice / Water System	060723	ROC Electric	\$750
Electrical	Install Exit Egress w Remote Heads	060723	ROC Electric	\$1,500
Electrical	Relocate Panels, Transformer, Communication Rack From West Wal	060723	ROC Electric	\$17,500
Electrical	Install (40) 480 BUS Plugs	060723	ROC Electric	\$62,000
Electrical	Install (10) Standard 120V Wall Outlets	060723	ROC Electric	\$1,250
Electrical	Install 100" TV Screen (Wall Mounted)	060723	ROC Electric	\$1,650
Electrical	Install (8) Floor Boxes - (2) Per Conference Room	060723	ROC Electric	\$9,500
Electrical	Install (5) TV Mounts w/ Power / Network Lines	060723	ROC Electric	\$8,200
Electrical	Install (10) Standard 120V Wall Outlets	060723	ROC Electric	\$1,250
Electrical	Install 100" TV Screen (Wall Mounted)	060723	ROC Electric	\$1,650
Electrical	Install (30) 6 Gang Box Drops ((4) 120V Outlets, (2) Network Outlets) (B41)	060723	ROC Electric	\$35,000
Electrical	Install (2) GFCI Outlet - Sink Side LH / RH	060723	ROC Electric	\$750
Electrical	Install Air / Hand Dryer	060723	ROC Electric	\$750
Electrical	Install (2) 200A 120V Panels + (2) 75 KVA Transformers	060723	ROC Electric	\$45,000
Electrical	Install Lighting (Match All-Phase Pattern)	060723	ROC Electric	\$75,000
Electrical	Install (2) GFCI Outlet - Sink Side LH / RH	060723	ROC Electric	\$750
Electrical	Install Air / Hand Dryer	060723	ROC Electric	\$750
Electrical	Disconnect & Move Lift Unit	060723	ROC Electric	\$800
Electrical	Install 480V Outlet Near Lift Unit	060723	ROC Electric	\$800
Electrical	Install (16) 480V Outlet Drops (B3)	060723	ROC Electric	\$20,500
Electrical	Install (56) 4 Gang Outlet 120V Drops (B3, B10, B11)	060723	ROC Electric	\$35,000
Electrical	Install (56) 4 Gang Outlet Network Drops (B3, B10, B11)	060723	ROC Electric	\$35,500
Electrical	Disconnect & Demo Electrical Connection	060723	ROC Electric	\$2,280
Electrical	Install BUS Bar on South Side	060723	ROC Electric	\$16,500
Electrical	Install (10) 2 Gang Network Lines	060723	ROC Electric	\$3,500
Electrical	Install (10) 4 Gang 120V Outlets (20 AMP's each)	060723	ROC Electric	\$3,500
Electrical	Install (6) Network Lines	060723	ROC Electric	\$1,000
Electrical	Disconnect / Reconnect Power	060723	ROC Electric	\$1,750
Electrical	Install LED Lighting Dimmer Controls	060723	ROC Electric	\$500
Electrical	Install (8) Standard 120V Wall Outlets	060723	ROC Electric	\$1,000
Electrical	Install (1) 65" TV Screens (Wall Mounted)	060723	ROC Electric	\$1,650
Electrical	Install LED Lighting Dimmer Controls	060723	ROC Electric	\$500
Electrical	Install (8) Standard 120V Wall Outlets	060723	ROC Electric	\$1,000
Electrical	Install (1) 65" TV Screens (Wall Mounted)	060723	ROC Electric	\$1,650
Electrical	Install (36) 4 Gang 120V Outlets (20 AMP's each) (B1, B2)	060723	ROC Electric	\$12,600
Electrical	Install (24) 480V Drops (B2)	060723	ROC Electric	\$36,500
Electrical	Install (36) 4 Gang Network Outlets (B1, B2)	060723	ROC Electric	\$27,000
Electrical	Install LED Lighting Dimmer Controls (14 Cubicle)	060723	ROC Electric	\$7,200
Electrical	Install (24) Standard 120V Wall Outlets	060723	ROC Electric	\$20,500
Fire Supression	Demo & Move Fire Supression Alert System	Estimated	Johnson Cotrols	\$18,500
Lighting	Purchase Lighting (Match All-Phase Pattern)	Q5000132 R2	All-Phase Electric Supply Co.	\$72,358
Lighting	Install LED Lighting	060723	ROC Electric	\$750
Lighting	Install LED Lighting Dimmer Controls	060723	ROC Electric	\$250
Lighting	Install LED Lighting Dimmer Controls	060723	ROC Electric	\$200
Lighting	Install LED Lighting	060723	ROC Electric	\$250
Lighting	Install LED Lighting	060723	ROC Electric	\$250

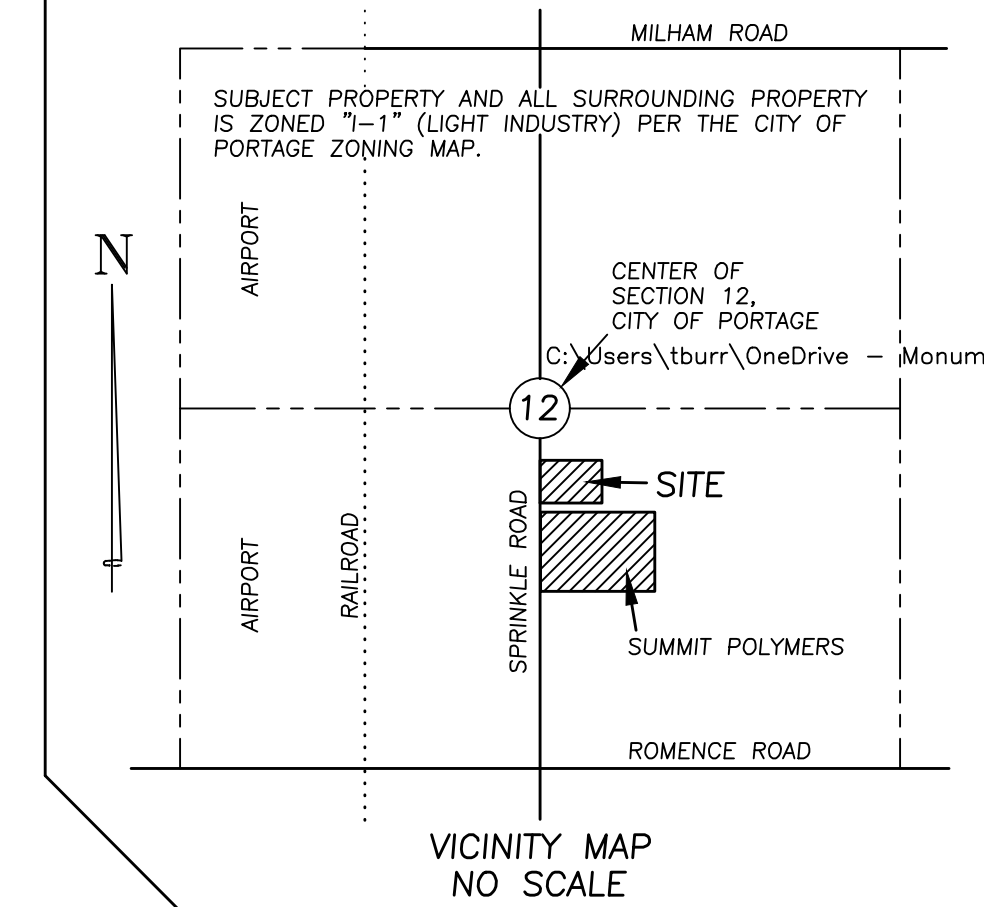
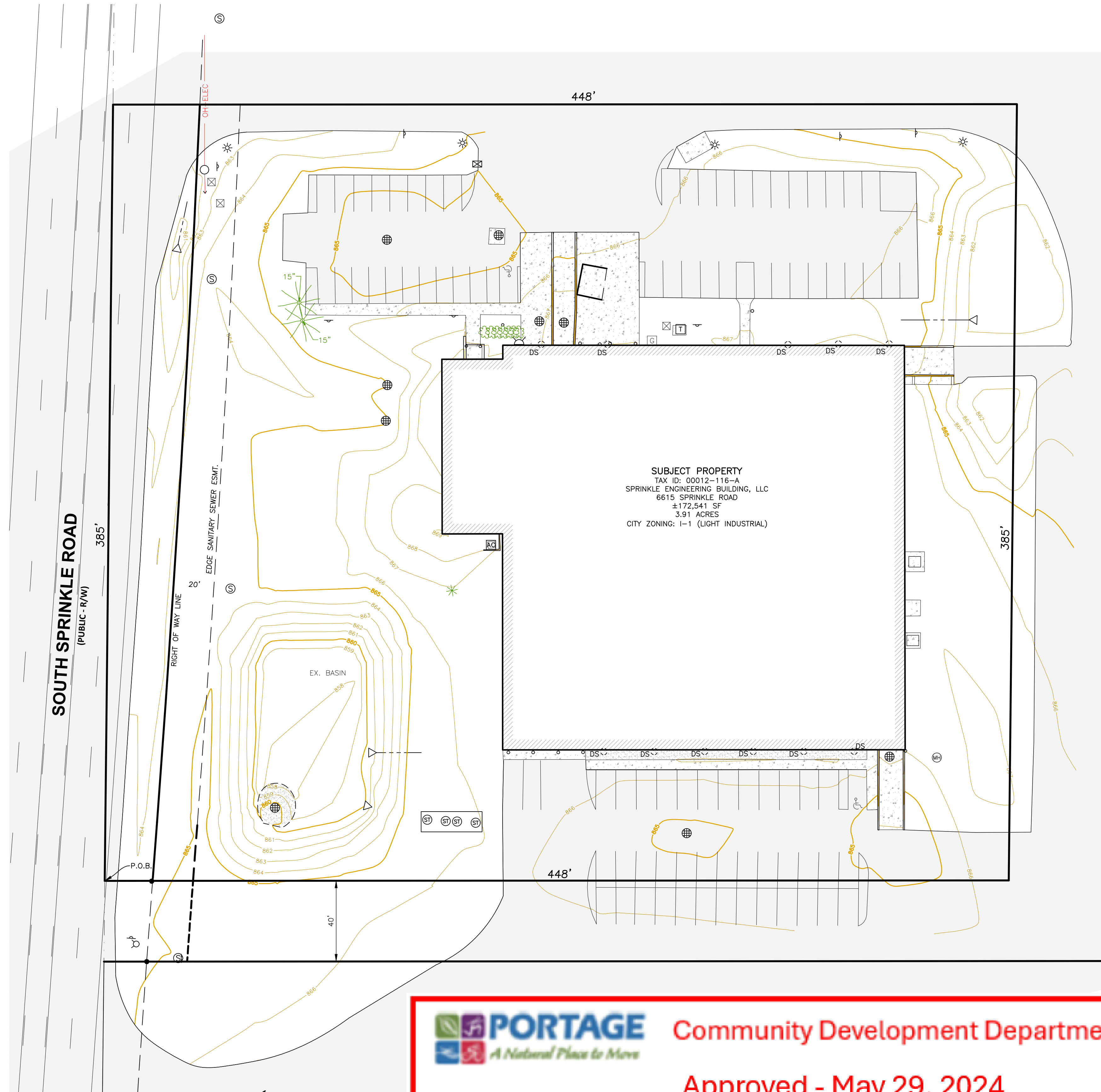
\$3,143,493



N

30' 0' 30' 60' 90'

SITework CONSTRUCTION PLANS for SUMMIT POLYMERS, INC. in PORTAGE, MICHIGAN



INNOVATIVE GEOSPATIAL
& ENGINEERING SOLUTIONS

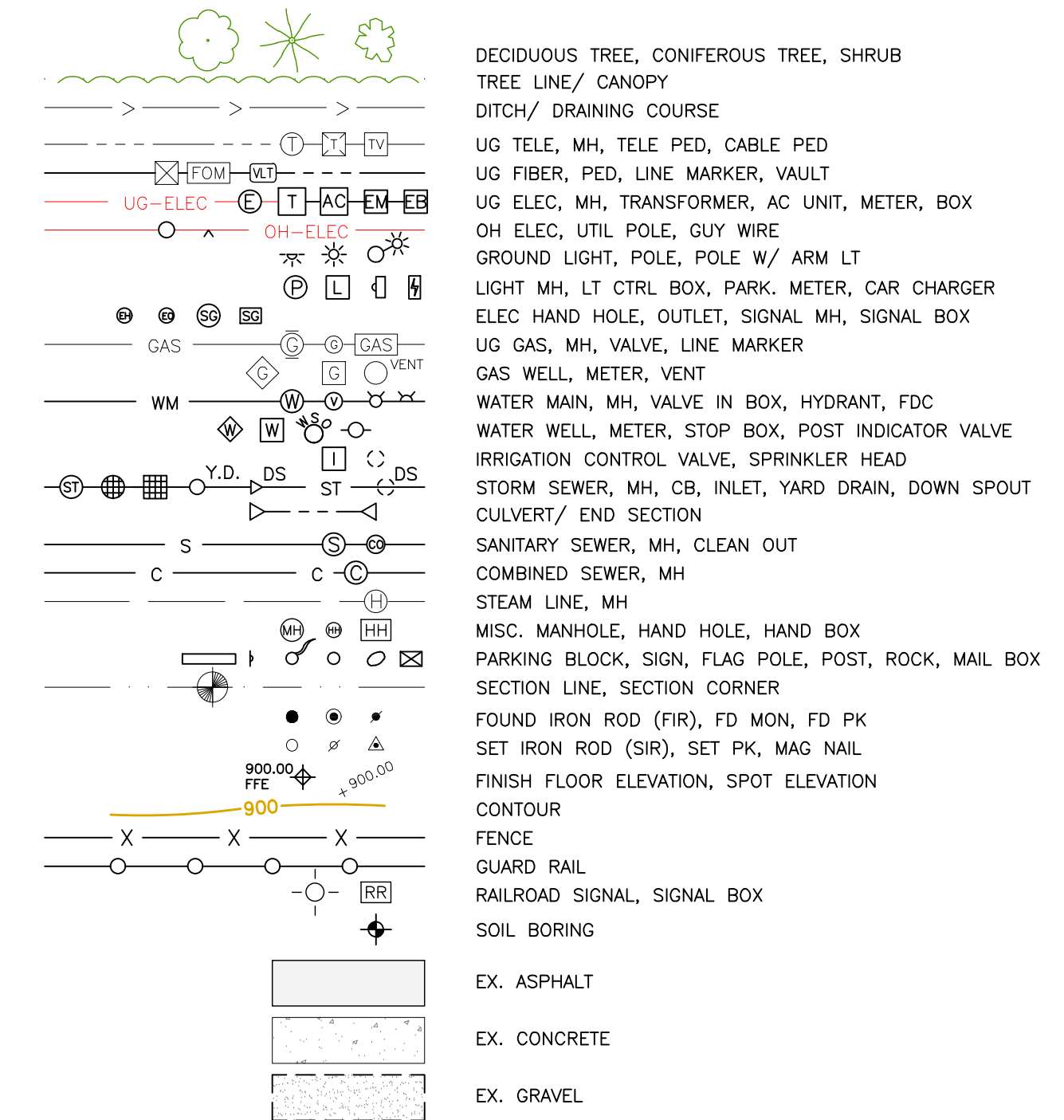
MEGA
MONUMENT ENGINEERING GROUP ASSOCIATES

388 VETERANS DRIVE
PORTAGE, MI 49002
(OFFICE) 517-223-3512
MONUMENTENGINEERING.COM

SERVICE DISABLED VETERAN OWNED
SMALL BUSINESS (SDVOSB)

DRAFT

EXISTING LEGEND



SHEET INDEX:
G-1.0 COVER SHEET
C-1.0 LAYOUT PLAN
C-7.0 GRADING & UTILITY PLAN
C-12.0 SPECIFICATIONS
C-12.1 SPECIFICATIONS

OWNER:
SPRINKLE ENGINEERING BUILDING,
6715 S. SPRINKE RD., LLC
PORTAGE, MI 49002
(269) 324-9323

APPLICANT:
SUMMIT POLYMERS, INC.
6715 S. SPRINKLE ROAD
PORTAGE, MI 49002
(269) 324-9323



Community Development Department

Approved - May 29, 2024

CLIENT :

SUMMIT
POLYMERS

6715 S. SPRINKLE RD.
PORTAGE, MI 49002
POC: CHRIS BERGMAN

(269) 352-8568

COVER
SUMMIT POLYMERS
6615 S. SPRINKLE ROAD
PART OF SE 1/4 SEC.12, T3S-R11W,
CITY OF PORTAGE, KALAMAZOO CO., MICHIGAN

DATE	5/10/2023	5/23/2023	8/10/2023	9/21/2023	10/24/2023	3/25/2024	5/10/2024	5/28/2024
PLAN SUBMITTALS/REVISIONS								
SENT TO CLIENT								
REVISED PER CLIENT								
REVISED PER CITY REVIEW								
REVISED PER CITY REVIEW								
REVISED PER CLIENT								
REVISED WATER LINE								
REVISED WATER SERVICES								

ORIGINAL ISSUE DATE:
5/10/2023

PROJECT NO: 22-276

SCALE: N/A
0 1/2" 1"

FIELD:
DRAWN BY: DC, MN
DESIGN BY: PF
CHECK BY: PF

G-1.0

NOT FOR CONSTRUCTION



C:\Users\tburr\OneDrive - Monument Engineering Group Ass\Desktop\Portage\Projects\2022\22-276 Summit Polymers\Drawings\Engineering\22-276_C-1.0_Layout.dwg PLOT DATE:5/28/2024 12:10 PM



NOTE: THE NUMBER OF EMPLOYEES IN THE LARGEST SHIFT (OR ONLY SHIFT) = 30.

ZONING INFORMATION

THIS ZONING INFORMATION IS TAKEN FROM CITY OF PORTAGE ZONING REGULATIONS

SUBJECT PARCEL ZONING CLASSIFICATION:
(I-1 - LIGHT INDUSTRIAL)
BUILDING SETBACKS:
FRONT (WEST): 50' & 75'
SIDE (SOUTH): 12'
SIDE (NORTH): 12'
REAR (EAST): 12'

SUBJECT PARCEL AREA: 3.96 ACRES

PROPOSED BUILDING:
ADDITION: 20,000 SF

LOT COVERAGE:
CALCULATION: 1.38 AC/3.96 AC = 35%

ADJACENT ZONING:
ALL SIDES: I-1

Call MISS DIG
3 full working days before you dig:
Michigan's One-Call Utility Notification Organization
1-800-482-7171
www.missdig.org

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT :

SUMMIT POLYMERS
6715 S. SPRINKLE RD.
PORTAGE, MI 49002
POC: CHRIS BERGMAN
(269) 352-8568

LAYOUT PLAN

SUMMIT POLYMERS
6615 S. SPRINKLE ROAD
PART OF SE 1/4 SEC.12, T3S-R11W,
CITY OF PORTAGE, KALAMAZOO CO., MICHIGAN

GENERAL NOTES:

- 1) THESE PLANS SHALL BE APPROVED BY THE CITY OF PORTAGE PRIOR TO STARTING CONSTRUCTION.
- 2) ALL NECESSARY PERMITS SHALL BE OBTAINED FROM THE CITY PRIOR TO STARTING CONSTRUCTION.
- 3) CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CITY REQUIREMENTS.
- 4) CITY MAY REQUIRE A PRE-CONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
- 5) CONTRACTOR SHALL CALL "MISS DIG" 72 HOURS PRIOR TO STARTING ANY WORK. NOTE THAT SOME UNDERGROUND UTILITIES MAY NOT HAVE BEEN SHOWN ON THESE PLANS. CONTRACTORS SHALL BE RESPONSIBLE TO LOCATE, PROTECT, AND RELOCATE (IF NECESSARY) ANY AND ALL UNDERGROUND UTILITIES. CONTACT UTILITY OWNERS AS NEEDED.
- 6) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY MEASURES & TRAFFIC CONTROL.
- 7) SUBJECT PROPERTY AND ALL SURROUNDING PROPERTY IS ZONED "I-1" (LIGHT INDUSTRY) PER THE CITY OF PORTAGE ZONING MAP.
- 8) ON THIS SHEET SHOWN IMPROVEMENTS TAKEN FROM RECENT ON-SITE MAPPING.
- 9) CONSTRUCTION MAY BE SUBJECT TO INSPECTION BY THE OWNER, THE OWNER'S REPRESENTATIVE, AND/OR THE CITY OF PORTAGE.
- 10) ADDITIONAL EASEMENTS MAY ENCUMBER PROPERTY THAT ARE NOT SHOWN ON THIS DRAWING SHEET.
- 11) BUILDING IS 1-STORY. CONSTRUCTION TYPE IS 2B. OCCUPANCY = F1

PLAN SUBMITTALS/REVISIONS	DATE
SENT TO CLIENT	5/10/2023
REVISED PER CLIENT	5/23/2023
REVISED PER CITY REVIEW	6/10/2023
REVISED PER CITY REVIEW	9/21/2023
REVISED PER CITY REVIEW	10/24/2023
REVISED PER CITY REVIEW	3/25/2024
REVISED WATER LINE	5/10/2024
REVISED WATER SERVICES	5/28/2024

ORIGINAL ISSUE DATE:
5/10/2023

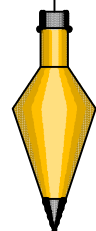
PROJECT NO: 22-276

SCALE: 1" = 30'
0 1/2" 1"

FIELD:
DRAWN BY: DC, MN
DESIGN BY: PF
CHECK BY: PF

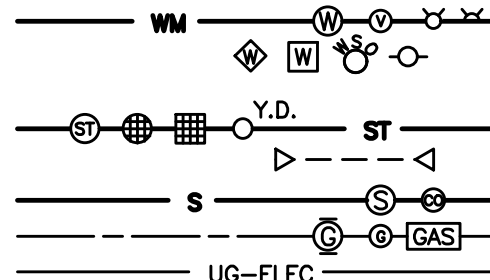
C-1.0

NOT FOR CONSTRUCTION

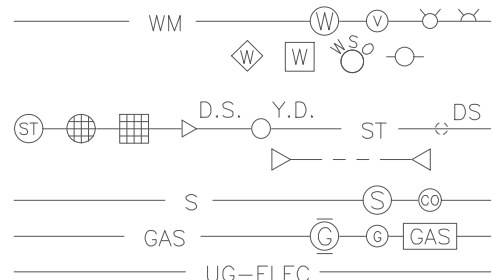


UTILITY LEGEND

PROPOSED



EXISTING



WATER MAIN, MH, VALVE IN BOX, HYDRANT
WATER WELL, METER, STOP BOX, POST INDICATOR VALVE
STORM SEWER, MH, CB, INLET, DOWN SPOUT, YARD DRAIN
CULVERT/ END SECTION
SANITARY SEWER, MH, CLEAN OUT
UG GAS, MH, VALVE, LINE MARKER
UG ELEC (ELEC, CABLE, FIBER)

NOTE: NEW FIRE SERVICE WILL REQUIRE 'RPZ' & BYPASS METER TO BE LOCATED AS CLOSE AS PRACTICAL TO THE EXTERIOR WALL OF THE BUILDING NEAR THE POINT WHERE THE SERVICE CROSSES THE FOUNDATION. IF NOT LOCATED ON AN EXTERIOR WALL, A WAIVER RELEASING THE CITY FROM LIABILITY FOR THE PORTION OF THE FIRE LINE PRIOR TO THE RPZ INSIDE THE BUILDING WILL BE REQUIRED. FIRE PROTECTION DRAWINGS SHALL BE PROVIDED TO THE CITY BY OTHERS. RPZ AND BYPASS METER SHALL COMPLY WITH CITY STANDARDS AND REQUIREMENTS.

CB#1: 48" DIAMETER
RIM = 864.12
12" INV (W) = 861.00

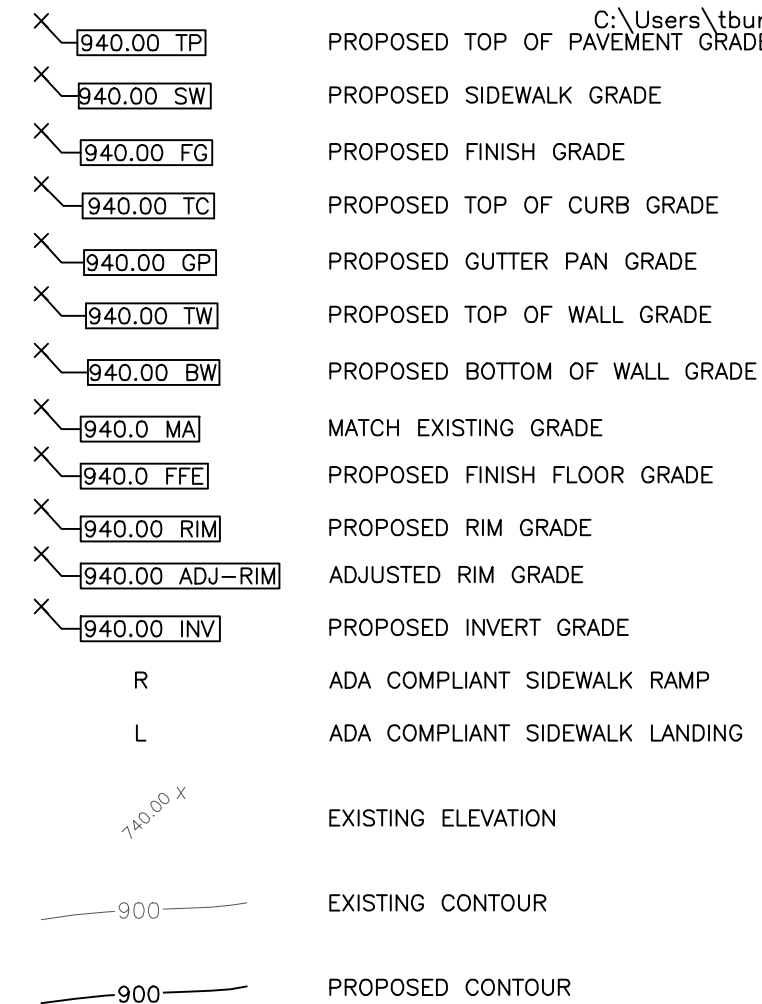
MH#2: 48" DIAMETER
RIM = 865.00
12" INV (E) = 861.55
12" INV (S) = 861.40

12" INV @ BASIN = 859.60

CB#1 TO MH#2:
55.0' - 12" RCP STORM @ 1.00%

MH#2 TO BASIN:
280' - 12" STORM @ 0.64%

GRADING LEGEND



ELEVATION BENCHMARKS

DATUM: NAVD88

BM A:
RAILROAD SPIKE IN SOUTH FACE UTILITY POLE, 45'± EAST OF SUBJECT'S WEST PROPERTY LINE & 86'± NORTH OF SUBJECT'S NORTH BUILDING WALL.
ELEV = 863.15

BM B:
CHISELED "X" ON EAST SIDE FLANGE BOLT ON HYDRANT, 31'± SOUTH OF SUBJECT'S SOUTH PROPERTY LINE & 181'± WEST OF SUBJECT'S WEST BUILDING WALL.
ELEV = 865.67

SOIL/GROUNDWATER CONTAMINATION NOTES:

IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED OR SUSPECTED DURING CONSTRUCTION THE FOLLOWING STEPS SHALL BE FOLLOWED:

- 1) CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY OWNER AND/OR OWNER'S REPRESENTATIVE.
- 2) OWNER AND/OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE CITY.
- 3) OWNER SHALL ENGAGE THE SERVICES OF A QUALIFIED ENVIRONMENTAL CONSULTANT.
- 4) CONSULTANT SHALL CONDUCT A SITE ASSESSMENT AND REPORT TO THE ABOVE PARTIES.
- 5) CONSULTANT SHALL DEVELOP A PLAN TO ADDRESS ANY CONTAMINATION WHICH MAY BE FOUND DURING CONSTRUCTION.
- 6) THE CONSULTANT TOGETHER WITH THE DESIGN ENGINEER SHALL COMPLETE A SITE EVALUATION PROCESS FOLLOWING THE DOCUMENT ENTITLED IMPLEMENTING STORMWATER INFILTRATION PRACTICES AT VACANT PARCELS AND BROWNFIELD SITES (EPA, 2013) TO DETERMINE IF THE STORMWATER MANAGEMENT SYSTEM REQUIRES REDESIGN AND RESUBMITAL TO THE CITY FOR REVIEW AND APPROVAL.
- 7) OWNER AND/OR OWNER'S REPRESENTATIVE SHALL SUBMIT TO THE CITY SUPPORTING DOCUMENTATION OF THE SITE EVALUATION PROCESS. A REVISED STORMWATER REVIEW PACKAGE MUST ALSO BE SUBMITTED IF IT BECOMES NECESSARY TO CHANGE THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM.
- 8) MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) REMEDIATION OF REDEVELOPMENT DIVISION (RRD) STAFF SHALL BE NOTIFIED AS APPLICABLE.

NOTE: A "STORM WATER BEST PRACTICES OPERATIONS AND MAINTENANCE AGREEMENT SHALL BE PREPARED AND PROVIDED TO THE CITY BY THE APPLICANT

NOTE: STORM SEWER PIPE, STRUCTURES, AND BASIN SHALL BE INSPECTED AT LEAST TWICE PER YEAR, OR AS OTHERWISE SPECIFIED IN 'STORM WATER OPERATIONS AND MAINTENANCE AGREEMENT'. SYSTEM SHALL BE CLEANED AND MAINTAINED AS REQUIRED AND PER THE 'AGREEMENT'. AN ANNUAL 'STORM WATER REPORT' NEEDS TO BE SUBMITTED TO THE CITY OF PORTAGE PER THE CONDITIONS OF THE STORM WATER AGREEMENT.

BASIN VOLUME TABLE						
ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
858.000	3,483.39	N/A	N/A	0.00	N/A	0.00
859.000	4,499.97	1.000	3991.68	3991.68	3980.85	3980.85
860.000	5,631.78	1.000	5065.88	9057.56	5055.31	9036.16
861.000	6,878.82	1.000	6255.30	15312.86	6244.91	15281.07
862.000	8,241.09	1.000	7559.95	22872.81	7549.71	22830.78
863.000	9,718.59	1.000	8979.84	31852.65	8969.69	31800.47
864.000	11,303.97	1.000	10511.28	42363.93	10501.31	42301.78
865.000	12,989.89	1.000	12146.93	54510.87	12137.17	54438.95

PROPOSED CONIFER SCREENING TREE. HEIGHT = 6'-8' AT PLANTING. 10' ON CENTER. SPECIES SHALL COMPLY WITH CITY REQUIREMENTS. 13 TOTAL. BASE ELEV = 864.0+/-.

EXISTING STORM WATER BASIN. BOTTOM ELEVATION = 858. STORAGE VOLUME (858 TO 865) = 52,000 CUBIC FEET.

RELOCATE OUTLET STRUCTURE 75' TO THE SOUTH. STRUCTURE AT TIMES RECEIVES PUMPED RUN-OFF WATER FROM EXISTING INLET STRUCTURE LOCATED NEAR STORM WATER INFILTRATION BASIN LOCATED ±1000' TO THE SOUTHEAST IN THE SOUTHEAST CORNER OF THE SUMMIT POLYMERS PROPERTY (BASIN BUILT 2013). INLET PIPE = +/-4" DIAMETER. INLET PIPE HAS BACKFLOW PREVENTER TO PREVENT WATER FROM FLOWING INTO 2013 INFILTRATION BASIN. PUMP WITHIN INLET STRUCTURE TURNS OFF & ON AUTOMATICALLY WITH FLOATS. SUMMIT POLYMERS CAN SHUT OFF PUMP IF WARRANTED OR DESIRED. SYSTEM IS IN PLACE TO PREVENT 2013 BASIN FROM OVERFILLING. DHWL IN 2013 BASIN = 863.

PROPOSED NEW STORM PIPE RUN AND STRUCTURE. (OVERFLOW)

EXISTING 8" GATE VALVE SHALL BE CLOSED, AND 8" PLUG SHALL BE INSTALLED JUST EAST OF EXISTING 8" GATE VALVE. COORDINATE THRU THE CITY OF PORTAGE.

PROPOSED 8" D.I.P. PRIVATE FIRE SUPPRESSION LINE. PLUMBING PERMIT REQ'D. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH PLUMBING CODE. USE TAPPING SLEEVE AND 8" GATE VALVE (LIVE TAP). COORDINATE LIVE TAP THRU THE CITY OF PORTAGE. SEE 'FIRE SERVICE NOTE' (ABOVE RIGHT).

PROPOSED METER VAULT FOR 2" WATER METER. LOCATION SHALL BE SUBJECT TO FINAL FIELD ADJUSTMENT. METER, METER BOX, AND LOCATION SHALL COMPLY WITH CITY STANDARDS AND REQUIREMENTS.

NOTE: ALL EXISTING IMPROVEMENTS WITHIN PROPOSED CONSTRUCTION AREA SHALL BE REMOVED OR RELOCATED PER DIRECTIONS FROM THE PROPERTY OWNER.

SOUTH SPRINKLE ROAD (PUBLIC-R/W)



PROPOSED RELOCATED STORM WATER BASIN. BOTTOM ELEVATION = 858.0. DESIGN HIGH WATER LEVEL = 864.2. SIDE SLOPES = 4:1 (HORIZ/VERTICAL). STORAGE VOLUME (858 TO 864.2) = 44,600 CUBIC FEET. REQUIRED STORAGE VOLUME = 44,300 CUBIC FEET (ASSUMING 4.8" RAIN).

PROPOSED 6" x 6" TREATED WOOD POST (TYPICAL)

EASEMENT FROM SUMMIT POLYMERS FOR STORM SEWER & STORM WATER DISPOSAL PURPOSES.

±200' x 40' EASEMENT FROM ADJOINER FOR STORM SEWER & STORM WATER DISPOSAL PURPOSES.

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THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT :

SUMMIT POLYMERS
6715 S. SPRINKLE RD.
PORTAGE, MI 49002
POC: CHRIS BERGMAN
(269) 352-8568

GRADING & UTILITY PLAN

SUMMIT POLYMERS
6615 S. SPRINKLE ROAD
PART OF SE 1/4 SEC.12, T3S-R11W,
CITY OF PORTAGE, KALAMAZOO CO., MICHIGAN

DATE	5/10/2023	5/23/2023	8/10/2023	9/21/2023	10/25/2023	3/25/2024	5/10/2024	5/28/2024
PLAN SUBMITTALS/REVISIONS								
SENT TO CLIENT								
REVISED PER CLIENT								
REVISED PER CITY REVIEW								
REVISED PER CITY REVIEW								
REVISED PER CITY REVIEW								
REVISED WATER LINE								
REVISED WATER SERVICES								

ORIGINAL ISSUE DATE:
5/10/2023

PROJECT NO: 22-276

SCALE: 1" = 30'

FIELD:
DRAWN BY: DC, MN
DESIGN BY: PF
CHECK BY: PF

C-7.0

NOT FOR CONSTRUCTION



GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL MUNICIPALITY, THE LOCAL WATER AUTH/OR SEWER AUTHORITY, THE COUNTY DRAIN, THE COUNTY ROAD COMMISSIONER, MICHIGAN DEPARTMENT OF TRANSPORTATION, MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY, THE STATE OF MICHIGAN, AND THE COUNTY ROAD COMMISSION WHERE APPLICABLE.
- RULES, REGULATIONS OR LAWS OF ANY CONTROLLING GOVERNMENTAL AGENCY SHALL GOVERN, WHEN THEY ARE MORE STRINGENT THAN THE REQUIREMENTS OF THESE SPECIFICATIONS.
- SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS EITHER AMONG THEMSELVES OR WITH THE REQUIREMENTS OF ANY AND ALL REVIEWING AND PERMIT-ISSUING AGENCIES, CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPLETE THE TYPE OF WORK WHICH IS BID, IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, DETAILS AND TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVE.
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL HOURS AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE WORK ON THIS PROJECT, EXPECTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAYS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL PERMITS HAVE BEEN ISSUED BY THESE GOVERNING AUTHORITIES.
- ALL NECESSARY PERMITS, BONDS, INSURANCES, ETC., SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL ELEVATIONS SHOWN ARE BASED ON BENCHMARKS PROVIDED BY THE LOCAL MUNICIPALITY UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL ITEMS OF WORK NOT SPECIFICALLY INDICATED AS PAY ITEMS ON THE DRAWINGS OR IN THE BID PACKAGE SHALL BE CONSIDERED INCIDENTAL ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION.
- AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG (1-800-482-7171) TO VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND SHALL NOTIFY REPRESENTATIVES OF OTHER UTILITIES IN THE VICINITY OF THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED BY THE CONSTRUCTION SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
- MANHOLE, CATCH BASIN, GATE WELL RIMS AND HYDRANT FINISH GRADE ELEVATIONS MUST BE AS-BUILT AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE. AGENCY REQUIREMENTS FOR RECORD DRAWINGS ALSO APPLY.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS, AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS, THE BURNING OR BURYING OF TRASH, STUMPS OR OTHER DEBRIS WILL NOT BE ALLOWED.
- ALL REFERENCES TO M.D.O.T. SPECIFICATIONS REFER TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALL CONTRACTORS BIDDING THIS PROJECT SHALL HAVE VISITED THE SITE TO BECOME THOROUGHLY FAMILIAR WITH THE SITE AND THE CONDITIONS IN WHICH THEY WILL BE CONDUCTING THEIR OPERATIONS, ANY VARIANCE FOUND BETWEEN THE PLANS AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UNDERGROUND FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION PROVIDED BY THE UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN.
- THE OWNER MAY EMPLOY AND PAY FOR THE SERVICES OF AN ENGINEER TO PROVIDE ON-SITE INSPECTION AND VERIFY IN THE FIELD THAT ALL BACKFILL, PAVEMENTS AND CONCRETE CURB AND GUTTER HAVE BEEN PLACED AND COMPACTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IF, IN THE OPINION OF THE ENGINEER, THE WORK DOES NOT MEET THE TECHNICAL OR DESIGN REQUIREMENTS STIPULATED FOR THE WORK, THE CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT SPECIFIC WRITTEN APPROVAL OF THE OWNER.
- ALL EXCAVATED MATERIAL REMOVED FROM THE SANITARY SEWER, STORM SEWER AND WATER MAIN TRENCHES UNDER, THROUGH AND WITHIN 3 FEET OF THE 45° ZONE OF INFLUENCE LINE, OR EXISTING OR PROPOSED PAVING, SIDEWALK AREAS AND PER PLANS, NOT SUITABLE FOR BACKFILL, SHALL BE REMOVED FROM THESE AREAS AND DISPOSED OF.
- THE CONTRACTOR SHALL RESTORE TO THEIR PRESENT CONDITIONS ANY PAVEMENT OR PUBLIC RIGHTS-OF-WAY THAT IS DISTURBED BY THE OPERATIONS OF THE CONTRACTOR. ALL RESTORATION WORK IN PUBLIC RIGHTS-OF-WAY SHALL BE PERFORMED TO THE SATISFACTION OF THE GOVERNMENT AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE AND LIGHTS TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC, IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- O.S.H.A. SAFETY REQUIREMENTS – ALL WORK, WORK PRACTICE, AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY, OCCUPATIONAL HEALTH AND ENVIRONMENTAL REGULATIONS AND ALSO NFPA AND ANSI CODES AS APPLICABLE. ALL WORK INSIDE A CONFINED SPACE SUCH AS MANHOLES OR UNDERGROUND STRUCTURES SHALL BE COORDINATED WITH UTILITY OWNER AND ALL WORKERS SAFETY REQUIREMENTS STRICTLY ENFORCED. LAND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.
- CONTRACTOR SHALL PROVIDE FOR THE CONTINUOUS OPERATION OF EXISTING FACILITIES WITHOUT INTERRUPTION DURING CONSTRUCTION UNLESS SPECIFICALLY AUTHORIZED OTHERWISE BY THE RESPECTIVE AUTHORITY.
- THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES IN THE PROJECT PLANS. TRENCH BACKFILL FOR EXISTING UTILITIES SHALL BE EXAMINED CRITICALLY. ANY TRENCH WHICH, IN THE OPINION OF THE SOLS ENGINEER ARE FOUND TO BE SOFT, UNSTABLE OR UNSUITABLE MATERIAL SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL. SAND BACKFILL SHALL BE USED UNDER PAVEMENT OR WITHIN 3 FEET OF THE 45° INFLUENCE LINE OF PAVEMENT OR STRUCTURES.

EROSION CONTROL STANDARDS

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL AGENCY UNDER PART 91 OF ACT 451 OF 1994, AS AMENDED.
- UNDER "MICHIGAN'S PERMIT-BY-RULE FOR CONSTRUCTION ACTIVITIES", PROMULGATED UNDER ACT 245, PUBLIC ACTS OF 1929 AS AMENDED, AN NPDES STORM WATER DISCHARGE COVERAGE PERMIT IS REQUIRED FOR ANY CONSTRUCTION ACTIVITY THAT DISTURBS 1 ACRE OR MORE OF LAND. A CERTIFIED STORM WATER OPERATOR IS REQUIRED FOR THE SUPERVISION AND INSPECTION OF THE SOIL EROSION CONTROL MEASURES AT THE CONSTRUCTION SITE IN ACCORDANCE WITH THE PROVISIONS OF THESE RULES.
- DAILY INSPECTIONS SHALL BE MADE BY CONTRACTOR WHILE WORKING TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY. ALL SOIL EROSION CONTROL PROVISIONS SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGE AREAS HAVE BEEN COMPLETED.

EROSION CONTROL STANDARDS CONTINUED

- STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.
- SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- DUST SHALL BE CONTROLLED BY WATERING OR BY OTHER APPROVED MEANS THROUGHOUT ALL CONSTRUCTION OPERATIONS.
- ALL WATER FROM DEWATERING OR SURFACE DRAINAGE FROM THE CONSTRUCTION SITE SHALL BE CONTROLLED TO ELIMINATE SEDIMENT CONTAMINATION OF OFF-SITE WATERWAYS OR STORM SEWERS. SUCH MEASURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY DEWATERING OR LAND DISTURBANCE.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAS EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 5 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- ALL SESC STANDARDS MUST CONFORM TO THE TERMS OF THE PERMIT ISSUED BY THE CITY OF PORTAGE.

STORM SEWER SPECIFICATIONS

- THESE SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS AND THE SPECIFICATIONS AND DETAIL SHEETS OF THE GOVERNING AGENCIES. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS SHALL BE FOLLOWED.
- CONTRACTOR SHALL FURNISH CERTIFIED EVIDENCE THAT ALL MATERIAL TESTS AND INSPECTIONS HAVE BEEN PERFORMED AND THAT THE PRODUCT HAS BEEN MANUFACTURED IN COMPLIANCE WITH THE APPLICABLE SPECIFICATIONS.
- PROPER IMPLEMENTS, TOOLS AND FACILITIES SHALL BE PROVIDED AND USED FOR UNLOADING AND DISTRIBUTING MATERIALS ALONG THE LINE OF WORK. ANY PIPE OR FITTING DAMAGED IN TRANSPORTATION OR HANDLING SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. HE SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS, EQUIPMENT AND WORK.
- PIPE BEDDING, UNLESS OTHERWISE INDICATED, SHALL BE CL. II SAND, CRUSHED STONE OR ROUNDED GRAVEL. BEDDING MATERIAL SHALL HAVE 95% PASSING A 3/4" SIEVE AND AT LEAST 50% RETAINED ON A NO. 4 SIEVE.
- POROUS FILTER MATERIAL FOR PERFORATED SUBSURFACE DRAINS SHALL BE CRUSHED ROCK OR GRAVEL GRADED BETWEEN 1-1/2" AND 3/4" OR PER PLANS AND DETAILS.
- BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS AIR PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN 10% BY VOLUME PASSING THROUGH A 200-MESH SIEVE.
- STORM SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING:
 - POLYVINYL CHLORIDE (PVC) AND ACRYLONITRILE BUTADIENE STYRENE (ABS) FOR PIPE UP TO AND INCLUDING 10" IN DIAMETER, SHALL CONFORM TO ASTM D3034, SDN 23.5 FOR PVC PIPE AND ASTM D2751 FOR ABS PIPE WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3212 OR CHEMICALLY WELDED PIPE JOINTS CONFORMING TO ASTM F545.
 - REINFORCED CONCRETE PIPE, FOR PIPE 12" IN DIAMETER AND UP, SHALL CONFORM TO ASTM C-76, CLASS 15 UNLESS OTHERWISE NOTED. DRAWINGS. JOINTS SHALL BE MODIFIED GROOVED TONGUE WITH RUBBER GASKET CONFORMING TO ASTM C-443.
 - PERFORATED SUBSURFACE DRAIN PIPE SHALL BE PVC CONFORMING TO ASTM D-2729 OR PERFORATED, CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO AASHTO M-294. JOINTS FOR PVC AND POLYETHYLENE PIPE SHALL BE PREFABRICATED COUPLING WITH SOLVENT WELD.
- MANHOLES, CATCH BASINS, AND INLETS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING:
 - REINFORCED PRE-CAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478-64T.
 - BRICK SHALL BE SOUND, HARD-BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH AASHTO M 91, GRADE MS.
 - CONCRETE MASONRY SHALL BE SOLID PRE-CAST SEGMENTAL UNITS CONFORMING TO ASTM C-139.
- IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH-MARKED TO PREVENT ROCKING. SYSTEM IDENTIFYING LETTERS "2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY ARE PLAINLY VISIBLE. SEE MUNICIPALITY STANDARDS FOR ACTUAL WORKING.
- CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC., NEEHAH FOUNDRY COMPANY OR EQUAL.
- CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING:
 - PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR IA.
 - FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33.
 - AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144.
 - HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S.
 - WATER SHALL MEET THE REQUIREMENTS OF MDOT SPEC SECTION 911.
 - REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE-GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40.
- CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM WITH 3" MAXIMUM SLUMP.
 - CONCRETE FILL BELOW GRADE MAY BE 2500 PSI AT 28 DAYS.
 - CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR-ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% ± 1% ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.
 - READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94.
- MORTAR SHALL BE SPECIFIED HEREINAFTER. USE METHOD OF MIXING MORTAR AT JOB SO THAT SPECIFIED PROPORTIONS OF MORTAR MATERIALS CAN BE CONTROLLEDY AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN REQUIRED FOR IMMEDIATE USE, WITH AMOUNT OF WATER CONSISTENT WITH SATISFACTORY WORKABILITY. RE-TAMPERING OF MORTAR IS NOT PERMITTED.
 - MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270, TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 PSI MINIMUM AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME.
 - MORTAR FOR PLASTERING SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2-1/2 PARTS SAND.
 - MORTAR FOR GROUTING OF RIP-RAP SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 3-1/2 PARTS SAND.
- PERFORM ALL EXCAVATING AND TRENCHING TO DIMENSIONS AND ELEVATIONS INDICATED ON DRAWINGS.

STORM SEWER SPECIFICATIONS, CONTINUED

- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE WORK.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED TO THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- WHERE UNSTABLE SOIL IS ENCOUNTERED, CONTRACTOR SHALL NOT PLACE PIPE UNTIL A SOLID BED HAS BEEN PROVIDED.
- EXCAVATION FOR DRAINAGE STRUCTURES SHALL EXTEND A SUFFICIENT DISTANCE FROM THE WALLS AND FOOTINGS TO ALLOWS FOR FORMS, CONSTRUCTION OF WALLS, CONNECTIONS AND FOR INSPECTION.
- POURED REQUIRED TIMBER SHEETING, BRACING AND SHORING TO PROTECT SIDES OF EXCAVATION. DO NOT BRACE SHEETING AGAINST PIPE. PROVIDE SUITABLE LADDERS FOR SAFE ENTRY TO AND EXIT FROM EXCAVATION.
- DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE PILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF TRENCHES TO AVOID OVERLOADING, AND TO PREVENT SLIDES OR CAVE-INS.
- WHEN WET EXCAVATION IS ENCOUNTERED, THE TRENCH SHALL BE DE-WATERED UNTIL THE PIPE HAS BEEN LAID AND BACKFILLED TO A POINT AT LEAST 1 FOOT ABOVE TOP OF PIPE.
- MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY UNITS OR PRE-CAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS.
- THE WALL THICKNESS OF MANHOLES AND CATCH BASINS CONSTRUCTED OF VARIOUS MATERIALS AND SET AT VARIOUS DEPTHS SHALL MEET THESE MINIMUMS. ADHERE TO REQUIREMENTS OF THE GOVERNING AGENCY IF THEY EXCEED THESE THICKNESSES:

DEPTH	BRICK	CONCRETE BLOCK	PRE-CAST CONCRETE
0' - 10'	8"	6"	6"
10' - 16"	12"	8"	8"
16' - 25'	16"	12"	12"
- WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER, TO CENTER, AROUND THE PERIPHERY OF OPENINGS TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
- MANHOLE STEPS SHALL BE BUILT INTO AND THOROUGHLY ANCHORED TO WALLS. STEPS SHALL BE FACTORY INSTALLED IN PRE-CAST STRUCTURES.
- ALL PIPING ENTERING OR LEAVING DRAINAGE STRUCTURES SHALL BE ADEQUATELY SUPPORTED BY POURED IN-PLACE CONCRETE FILL FROM PIPE CENTER TO UNDISTURBED GROUND.
- SET FRAMES IN FULL BED OF STIFF MORTAR OR BITUMINOUS MASTIC JOINTING COMPOUND AT FINAL ELEVATION.
- ALL TIMBER SHEETING BELOW A PLANE 12" ABOVE TOP OF PIPE SHALL REMAIN IN PLACE IN ORDER NOT TO DISTURB PIPE GRADING. BEFORE BACKFILLING, REMOVE ALL OTHER SHEETING BRACING AND SHORING.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557 (MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AND SHALL BE DEPOSITED IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D1557. (MODIFIED PROCTOR) SUITABLE MATERIALS FOUND ON SITE MAY BE USED.
- BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS. EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS.
- AFTER INSTALLATION OF PIPES AND DRAINAGE STRUCTURES, CLEAN THEM, AND ADJUST TOPS TO FINISH GRADE. PIPE SHALL BE STRAIGHT BETWEEN STRUCTURES, WITH THE FULL INSIDE DIAMETER VISIBLE WHEN SIGHTING BETWEEN STRUCTURES.
- ENDS OF HEADWALL AND END SECTIONS FOR PIPES LARGER THAN 6 INCHES, SHALL BE FITTED WITH A #4 ROUND MINIMUM WELDED STEEL ROD GRATING. RODS SHALL BE SPACED 6" O.C. MAXIMUM. WELD ROD AT ALL INTERSECTIONS. GRATE SHALL BE REMOVABLE FOR ACCESS AND CLEANING.
- RIP-RAP SHALL BE LAID FROM THE BOTTOM UPWARD; STONES SHALL BE LAID BY HAND WITH 8" MINIMUM DIMENSION PERPENDICULAR TO GRADE WITH WELL-BROKEN JOINTS, COMPACTED AS IT GOES, TRUE TO LINE. ALL JOINTS SHALL BE FILLED WITH CEMENT MORTAR. SURFACE STONE TO BE EXPOSED. CLEAN JOINTS WITH WIRE BRUSH.
- THE CONTRACTOR SHALL DO ALL REQUIRED EXCAVATION AND TRENCHING WORK AND THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPLETION OF THE WORKS HEREIN REGARDLESS OF THE NATURE OF MATERIALS ENCOUNTERED DURING THE COURSE OF THE WORK. THE OWNER WILL NOT BE LIABLE FOR ANY COSTS WHATSOEVER ASSOCIATED WITH, BUT NOT LIMITED TO, THE PRESENCE OF ROCK, PEAT, SUBTERRANEAN STREAMS, EXCESSIVE WATER OR OTHER DIFFICULT OR UNANTICIPATED SUB-SURFACE PHENOMENA.
- ALL CONNECTIONS TO EXISTING SEWERS SHALL BE PER MUNICIPAL REQUIREMENTS, AND ALL COSTS INCLUDING TESTING AND/OR VIDEO OF SEWERS SHALL BE INCIDENTAL TO THE JOB.

WATER MAIN SPECIFICATIONS

- WATER MAIN SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS, THE WATER MAIN SPECIFICATIONS, AND THE DETAIL SHEETS OF THE GOVERNING AGENCIES. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS SHALL BE FOLLOWED.
- DUCTILE IRON PIPE, 16" DIAMETER AND SMALLER, SHALL CONFORM TO ANSI/AWWA SPECIFICATION C151/A21.51, CLASS 54. DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA SPECIFICATION C110/A21.10 FOR STANDARD FITTINGS OR TO ANSI/AWWA SPECIFICATION C153/A21.53 FOR COMPACT FITTINGS. DUCTILE IRON PIPE AND FITTINGS SHALL HAVE A DOUBLE THICKNESS CEMENT MORTAR LINING CONFORMING TO ANSI SPECIFICATION A21.4.
- JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE U.S. PIPE AND FOUNDRY COMPANY "TYTON JOINT" OR APPROVED EQUAL.
- POLYVINYL CHLORIDE (PVC) WATER MAIN SHALL CONFORM TO AWWA C900 FOR PIPE SIZES 4 TO 12 INCHES, AND SHALL CONFORM TO AWWA C905 FOR PIPE SIZES 14 TO 24 INCHES. ALL PIPES SHALL HAVE A MINIMUM DIMENSION RATIO OF (D) OF 18 CORRESPONDING TO A WORKING PRESSURE OF 235 PSI FOR PVC TYPE 1120 PIPE.
 - RESTRAINTS FOR PVC PIPE SHALL BE EBA IRON SERIES 200PV, UNIFLANGE SERIES 1350C, 1390C, 1500 OR APPROVED EQUAL.
 - SERVICES SHALL BE INSTALLED WITH ALL STAINLESS STEEL SADDLES SUCH AS SMITH-BEAR 372, FORD F5303, CASCADE C622, OR APPROVED EQUAL.
 - ALL PVC PIPE USED FOR POTABLE WATER SHALL BE BLUE IN COLOR, MANUFACTURED WITHIN THE LAST 12 MONTHS AS DETERMINED FROM THE DATE STAMP ON THE PIPE, AND FREE FROM DEFECTS.
 - ALL PIPES SHALL BE MARKED WITH THE MANUFACTURER'S NAME, DATE, NOMINAL SIZE, TYPE OF PLASTIC AND PRESSURE RATING. PIPE O.D. SHALL BE EQUIVALENT TO DUCTILE IRON PIPE OF THE SAME NOMINAL SIZE.
 - FITTING SHALL CONFORM TO AWWA C907 AND C908, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF FIVE FEET, OR AS SPECIFIED BY THE LOCAL GOVERNING MUNICIPALITY, BELOW FINISH GRADE, UNLESS OTHERWISE NOTED IN THE PLANS. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL 11-1/4 BENDS PROPERLY ANCHORED.
- SEE THE WATER MAIN STANDARD DETAIL SHEETS OF THE GOVERNING AGENCY FOR THE SPECIFIC TYPE OF HYDRANTS AND VALVES TO BE USED FOR THIS PROJECT. THESE DETAIL SHEETS ARE INCLUDED AS PART OF THE PLANS.
- PRIOR TO HYDROSTATIC TESTING AND BEFORE PLACING THE WATER MAIN IN SERVICE, ALL NEW WATER PIPELINES SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C651. VERIFICATION OF DISINFECTION SHALL BE PERFORMED BY A CERTIFIED TESTING LABORATORY.

WATER MAIN SPECIFICATIONS, CONTINUED

- BEFORE ANY WATER MAIN WILL BE ACCEPTED BY THE GOVERNING AGENCY, IT MUST PASS A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH AWWA C605 AND COMPLYING WITH THE CURRENT SPECIFICATIONS AND PROCEDURES OF THE AGENCY.
- PRIOR TO BEING PLACED INTO SERVICE, WATER MAIN SHALL BE FLUSHED OF CHLORINATED WATER AND FILLED WITH WATER FROM THE DISTRIBUTION SYSTEM. CHLORINATED WATER SHALL BE PUMPED INTO THE SANITARY SEWER, NO CHLORINATED WATER SHALL BE ALLOWED IN THE STORM SEWER OR DISCHARGED TO SURFACE WATERS.
- BEFORE ANY WATER MAIN SYSTEM WILL BE ACCEPTED BY THE GOVERNING AGENCY, THE FIRE HYDRANTS MUST BE PAINTED AS INDICATED ON THE WATER MAIN STANDARD DETAIL SHEETS.
- TWO INCH (2") DIAMETER CORPORATION STOPS SHALL BE PROVIDED IN BOTH THE EXISTING WATER MAIN AND THE NEW WATER MAIN AT ALL NEW CONNECTIONS.
- ALL TEES, BENDS CONNECTIONS, ETC. ARE INCIDENTAL TO THE JOB.
- PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATERMANS UNTIL TESTING IS SATISFACTORILY COMPLETED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS EQUIPMENT AND WORK.
- PIPE BEDDING, UNLESS OTHERWISE INDICATED, SHALL BE CRUSHED STONE OR ROUNDED GRAVEL. BEDDING MATERIAL SHALL HAVE 95% PASSING A 3/4" SIEVE AND 50% RETAINED ON A NO. 4 SIEVE; LOAD FACTOR SHALL BE 1.9.
- BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN TEN PERCENT (10%) BY VOLUME PASSING THROUGH A 200 MESH SIEVE.
- GATE WELLS SHALL BE REINFORCED PRE-CAST CONCRETE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478.
- THRUST BLOCKS, IF REQUIRED BY THE MUNICIPALITY, SHALL BE MADE OF 3000 PSI CONCRETE WET MIX.
- THE MAXIMUM WIDTH OF TRENCH TO TOP OF PIPE SHALL BE AS FOLLOWS:

PIPE DIAMETER	TRENCH WIDTH
THROUGH 12"	36"
15" THROUGH 36"	O.D. PLUS 24"
42" THROUGH 60"	O.D. PLUS 30"
66" AND LARGER	O.D. PLUS 36"
- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE WORK.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED AT THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- WHERE UNSTABLE SOIL IS ENCOUNTERED, CONTRACTOR SHALL NOT PLACE PIPE UNTIL A SOLID BED HAS BEEN PROVIDED.
- EXCAVATION FOR STRUCTURES SHALL EXTEND A SUFFICIENT DISTANCE FROM THE WALLS AND FOOTINGS TO ALLOW FOR FORMS, CONSTRUCTION OF WALLS, CONNECTIONS AND FOR INSPECTION.
- GATE WELLS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY UNITS OR PRE-CAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN.
 - COMPLETELY FILL JOINTS ON PRE-CAST CONCRETE SECTIONS WITH BITUMINOUS MASTIC JOINTING COMPOUND OR JOINTS SHALL BE MADE WITH CEMENT MORTAR WITH INSIDE POINTING AND OUTSIDE RUBBER WRAP.
 - BRICK SHALL BE WET WHEN LAID. LAY BRICK OR CONCRETE MASONRY UNITS IN MORTAR SO AS TO FORM FULL BED, WITH END AND SIDE JOINTS IN ONE OPERATION, WITH JOINTS NOT MORE THAN 3/8" WIDE EXCEPT WHEN BRICKS OR CONCRETE MASONRY UNITS ARE LAID RADIIALLY, IN WHICH CASE THE NARROWEST PART OF JOINT SHALL NOT EXCEED 1/4". LAY IN TRUE LINE, WHENEVER PRACTICAL, JOINTS SHALL BE CAREFULLY STRUCK AND POINTED ON INSIDE.
 - PROTECT FRESH BRICK WORK FROM FREEZING, FROM DRYING EFFECTS OF SUN AND WIND, AND FOR SUCH TIME AS DIRECTED BY THE GEOTECHNICAL ENGINEER, IN FREEZING WEATHER, HEAT SUFFICIENTLY TO REMOVE ICE AND FROST FROM BRICK WORK.
- GATE WELL STEPS SHALL BE BUILT INTO AND THOROUGHLY ANCHORED TO WALLS.
- ALL PIPING ENTERING OR LEAVING GATE WELLS SHALL BE ADEQUATELY SUPPORTED BY POURED-IN-PLACE CONCRETE FILL FROM PIPE CENTER TO UNDISTURBED GROUND.
- THE OUTSIDE SURFACES OF BRICK OR CONCRETE MASONRY PORTION OF GATE WELLS SHALL BE PLASTERED AND TROWELED SMOOTH WITH 1/2" LAYERS OF CEMENT MORTAR.
- SET FRAMES IN FULL BED OF STIFF MORTAR OR BITUMINOUS MASTIC JOINTING COMPOUND AT FINAL ELEVATION.
- IF REQUIRED BY THE MUNICIPALITY, PLACE HORIZONTAL AND/OR VERTICAL THRUST BLOCKS AT ALL PLUGS, CAPS, TEES AND FITTINGS. THE COST OF THRUST BLOCKS SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR WATER MAIN. THRUST BLOCKS SHALL NOT BE BACKFILLED PRIOR TO OBSERVATION BY THE CONTROLLING GOVERNMENTAL AGENCY. IF THRUST BLOCKS ARE NOT UTILIZED, ALL FITTINGS SHALL HAVE RESTRAINED JOINTS PER THE MANUFACTURER.
- IN UNSTABLE SOIL CONDITIONS, THRUST BLOCKS SHALL BE SUPPORTED BY PILING DRIVEN TO SOLID FOUNDATIONS OR BY REMOVAL OF THE UNSTABLE SOILS AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS. THE COST OF PILING OR BALLAST AT THRUST BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- PLACE ALL CONCRETE ANCHORAGES AND ENCASEMENTS, AS CALLED FOR ON THE DRAWINGS. THE COST OF RESTRAINED JOINTS OR ANCHORAGE AND ENCASEMENTS SHALL BE INCLUDED IN THE PRICE BID FOR WATER MAIN.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557(MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS PAVED, OR AREAS PROPOSED TO BE PAVED, PLACE SAND BACKFILL IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR).
- BEFORE BACKFILLING AROUND STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS.
- THE CONTRACTOR SHALL DO ALL REQUIRED EXCAVATION AND TRENCHING WORK AND THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPLETION OF THE WORKS HEREIN REGARDLESS OF THE NATURE OF MATERIALS ENCOUNTERED DURING THE COURSE OF THE WORK. THE OWNER WILL NOT BE LIABLE FOR ANY COSTS WHATSOEVER ASSOCIATED WITH, BUT NOT LIMITED TO, THE PRESENCE OF ROCK, PEAT, SUBTERRANEAN STREAMS, EXCESSIVE WATER OR OTHER DIFFICULT OR UNANTICIPATED SUB-SURFACE PHENOMENA.
- ALL WATER MAIN WORK SHALL BE IN ACCORDANCE WITH THE CITY OF PORTAGE STANDARD SPECIFICATIONS

SANITARY SEWER SPECIFICATIONS

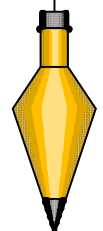
- THESE SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE GENERAL SPECIFICATIONS AND THE SANITARY SEWER SPECIFICATIONS AND DETAIL SHEETS OF THE GOVERNING AGENCIES. IF ANY CONFLICT IS FOUND BETWEEN THE SPECIFICATIONS, THE STRICTER SPECIFICATIONS WILL BE FOLLOWED.
- THE GOVERNING AGENCY WILL INSPECT THE INSTALLATION OF ALL SANITARY SEWER PIPING.

SANITARY SEWER SPECIFICATION, CONTINUED

- PROPER IMPLEMENTS, TOOLS AND FACILITIES SHALL BE PROVIDED AND USED FOR UNLOADING AND DISTRIBUTING MATERIALS ALONG THE LINE OF WORK. ANY PIPE OR FITTING DAMAGED IN TRANSPORTATION OR HANDLING SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIAL INTENDED FOR THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO MATERIALS, EQUIPMENT AND WORK.
- THE CONTRACTOR SHALL DO ALL REQUIRED EXCAVATION AND TRENCHING WORK AND THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPLETION OF THE WORKS HEREIN REGARDLESS OF THE NATURE OF MATERIALS ENCOUNTERED DURING THE COURSE OF THE WORK. THE OWNER WILL NOT BE LIABLE FOR ANY COSTS WHATSOEVER ASSOCIATED WITH, BUT NOT LIMITED TO, THE PRESENCE OF ROCK, PEAT, SUBTERRANEAN STREAMS, EXCESSIVE WATER OR OTHER DIFFICULT OR UNANTICIPATED SUB-SURFACE PHENOMENA.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE THE SANITARY SEWER INSTALLATION WITH THE GRADING, EXCAVATION AND OTHER SITE UTILITY SUBCONTRACTORS AND THE OWNERS REPRESENTATIVE SO AS TO PROVIDE FOR A SMOOTH AND ORDERLY PROGRESSION OF THE WORK.
- SANITARY SEWER PIPING AND FITTINGS SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING AGENCY.
- REINFORCED PRE-CAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C-478 OR AASHTO M-199.
- OPEN NO MORE TRENCH IN ADVANCE OF PIPE LAYING THAN IS NECESSARY TO EXPEDITE THE WORK.
- CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED ON DRAWINGS. WHERE EXCESSIVE OR UNAUTHORIZED EXCAVATION TAKES PLACE, THE OVERDEPTH SHALL BE BACKFILLED AT THE PROPER GRADE WITH COMPACTED BEDDING MATERIAL, AT NO EXPENSE TO THE OWNER.
- PROVIDE REQUIRED TIMBER SHEETING, BRACING AND SHORING TO PROTECT SIDES OF EXCAVATION. DO NOT BRACE SHEETING AGAINST PIPE. PROVIDE STAGING AND SUITABLE LADDERS FOR SAFE ENTRY TO AND EXIT FROM EXCAVATION.
- DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE PILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF TRENCHES TO AVOID OVERLOADING, AND TO PREVENT CAVE-INS.
- WHEN WET EXCAVATION IS ENCOUNTERED, THE TRENCH SHALL BE DE-WATERED UNTIL THE PIPE HAS BEEN LAID AND BACKFILLED TO A POINT AT LEAST 1 FOOT ABOVE TOP OF PIPE.
- SANITARY SEWER CROSSINGS SHALL BE MADE WITH 18" OF VERTICAL CLEARANCE FROM ANOTHER UTILITY AND SHALL BE MADE WITHOUT PLACING POINT LOADS ON EITHER PIPE. CONSTRUCT SADDLES, OR PLACE PROTECTIVE CONCRETE CAP TO PREVENT DAMAGE.
- ALL CONNECTION BRANCHES IN THE SEWER PIPE SHALL BE SECURELY AND COMPLETELY FASTENED TO OR FORMED INTO THE WALL OF THE PIPE DURING THE COURSE OF MANUFACTURE. ALL PIPE CONTAINING SUCH CONNECTION BRANCHES SHALL BE INSTALLED WITH THE MAIN SEWER. THE PROPOSED LOCATION OF THE BRANCH SHALL BE PER PLAN OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- SERVICE LEADS SHALL TERMINATE (WITH AN APPROVED STOPPER) PER PLANS OR AS DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE.
- EACH RISER AND/OR SERVICE LEAD SHALL BE MARKED WITH A 2 INCH X 2 INCH X 8 FOOT LONG HARDWOOD MARKER, PLACED VERTICALLY AT THE END OF THE PIPE.
- DOWNSPOUTS, WEEP TILE, FOOTING DRAINS, OR ANY CONDUIT, THAT CARRIES STORM OR GROUND WATER SHALL NOT BE ALLOWED TO DISCHARGE INTO A SANITARY SEWER.
- ANY CONNECTION TO AN EXISTING SANITARY SEWER MANHOLE SHALL BE MADE IN STRICT CONFORMANCE WITH THE PLANS AND SPECIFICATIONS, WITH ALL WORK BEING DONE IN A WORKMANLIKE MANNER. THIS WORK SHALL INCLUDE THE CONSTRUCTION OF A PROPER CHANNEL IN THE EXISTING MANHOLE AT WHICH THE CONNECTION IS TO BE MADE, TO DIRECT THE FLOW OF INCOMING FLUIDS TO THE EXISTING OUTLET IN A MANNER WHICH WILL TEND TO CREATE AT LEAST A MINOR DEGREE OF TURBULENCE. ANY PORTION OF THE EXISTING STRUCTURE WHICH WOULD INTERFERE WITH SUCH CONSTRUCTION SHALL BE REMOVED. THE COST OF ALL CONNECTIONS, INCLUDING ALL TESTING AND/OR TELEVISION REQUIRED BY THE LOCAL MUNICIPALITY, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE MAIN SEWER UNLESS OTHERWISE PROVIDED IN THE PROPOSAL.
- WHEN CONNECTIONS ARE MADE WITH SEWERS OR DRAINS CARRYING FLUIDS, SPECIAL CARE MUST BE TAKEN THAT NO PART OF THE WORK IS BUILT UNDER WATER. A FLUME OR DAM MUST BE INSTALLED AND PUMPING MAINTAINED, IF NECESSARY, AND THE WORK SHALL BE KEPT DRY UNTIL COMPLETED AND ANY CONCRETE OR MORTAR HAS SET.
- ALL TIMBER SHEETING BELOW A PLANE 12" ABOVE TOP OF PIPE SHALL REMAIN IN PLACE IN ORDER NOT TO DISTURB PIPE GRADING. BEFORE BACKFILLING, REMOVE ALL OTHER SHEETING, BRACING AND SHORING.
- BEDDING USED FOR TRENCH BOTTOM SHALL BE EXTENDED UP THE SIDES AND CAREFULLY PLACED AROUND AND OVER PIPE IN 6" MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS PER ASTM D-1557 (MODIFIED PROCTOR) UNTIL 12" OF COVER EXISTS OVER PIPE.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SPECIFIED BACKFILL MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER TO SPECIFIED SUBGRADE ELEVATION. BACKFILLING SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY PER ASTM D-1557.
- WITHIN 3' OF THE 45° INFLUENCE LINE OF THE SUBGRADE OF STREETS, DRIVES, PARKING LOTS AND OTHER AREAS TO HAVE OR HAVING IMPROVED HARD SURFACES, BACKFILL SHALL BE MATERIAL SPECIFIED AND SHALL BE DEPOSITED IN 6" LOOSE LAYERS AT OPTIMUM MOISTURE CONTENT (±2%) AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). SUITABLE MATERIALS FOUND ON SITE MAY BE USED IF APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE. WHERE SERVICE OR UTILITY LINES CROSS, PAVEMENT OR SIDEWALK, BEDDING SHALL BE CARRIED TO 3 FEET BEHIND THE CURB LINE OR 3 FEET BEHIND THE SIDE OF SIDEWALK FARTEST AWAY FROM THE PROPOSED PAVEMENT.
- BEFORE BACKFILLING AROUND MANHOLES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED SYMMETRICALLY ON ALL SIDES IN 8" MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL AND HAND TAMPERS.
- SANITARY SEWER MANHOLES MUST BE WATER-TIGHT AND SHALL BE PRECAST SECTIONS WITH MODIFIED GROOVED TONGUE JOINTS WITH RUBBER GASKETS, CONFORMING TO ASTM DETAIL C478. CAST IRON STEPS SHALL BE CAST INTO THE MANHOLE SECTIONS AT 16" O.C. DURING MANUFACTURE AND AT 45° FROM THE CENTERLINE OF THE SEWER. MANHOLE STEPS SHALL BE NEEHAH R-1980-E, EAST JORDAN IRON WORKS, 8500 OR APPROVED EQUAL.
- WHEN EXISTING REINFORCED CONCRETE MANHOLES OR SEWER PIPES ARE TO BE TAPPED, A HOLE OF THE APPROPRIATE DIAMETER, SHALL BE CORE DRILLED, THROUGH THE WALL OF THE MANHOLE OR SEWER PIPE, TO ACCEPT A RESILIENT CONNECTOR CONFORMING TO ASTM DESIGNATION C-923. RESILIENT CONNECTORS SHALL BE "KOR-N-SEAL" AS MANUFACTURED BY "THE CORE AND SEAL CO." OR APPROVED EQUAL.
- ALL SEWERS SHALL BE SUBJECTED TO INFILTRATION, AIR OR EXFILTRATION TESTS OR A COMBINATION THEREOF IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS, OR PER THE SEWER AUTHORITY'S STANDARDS, PRIOR TO ACCEPTANCE OF THE SYSTEM AND PRIOR TO REMOVAL OF THE BULKHEADS.
 - ALL SEWERS OVER 24" DIAMETER SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24" DIAMETER OR SMALLER, WHERE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS OVER SEVEN (7) FEET, SHALL BE SUBJECTED TO AN INFILTRATION TEST.
 - ALL SEWERS OF 24" DIAMETER OF LESS, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS SEVEN (7) FEET OR LESS, SHALL BE SUBJECT TO AIR TESTS OR EXFILTRATION TESTS.
- NO SANITARY SEWER INSTALLATION OR PORTION THEREOF SHALL HAVE INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOUR PERIOD.
- ALL SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE CITY OF PORTAGE STANDARD SPECIFICATIONS

GRADING AND EARTHWORK SPECIFICATIONS

1. ALTHOUGH A SUB-SURFACE INVESTIGATION MAY HAVE BEEN MADE BY THE OWNER, THE BIDDER AND ANY SUB-CONTRACTORS SHALL MAKE A PERSONAL INVESTIGATION OF SITE AND EXISTING SURFACE AND SUBSTRATE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO ACQUANT HIMSELF WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO DETERMINE THE SUB-SURFACE SOIL CONDITIONS AND GROUND WATER CONDITIONS TO DETERMINE THE SATISFACTION PRIOR TO BIDDING. NO MODIFICATIONS TO THE UNIT PRICES BID FOR ANY ITEM WILL BE MADE DUE TO VARIABLE SUB-SURFACE CONDITIONS. DOWATERING, IF DETERMINED NECESSARY BY THE CONTRACTOR, SHALL BE WELL POINTING OR DEEP WELLS WILL BE INCIDENTAL TO THE INSTALLATION COST OF THE ITEM.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING DETERMINED TO HIS SATISFACTION PRIOR TO THE SUBMISSION OF HIS BID THE CONFIRMATION OF THE GROUND, THE CHARACTER AND QUALITY OF THE SUBSTRATA, THE TYPES AND QUANTITIES OF MATERIALS TO BE ENCOUNTERED, THE NATURE OF THE GROUNDWATER, THE PRODUCTION OF THE WORK, THE GENERAL AND LOCAL CONDITIONS INCLUDING RECENT CLIMATIC CHANGES, THE TIME OF YEAR IN WHICH CONSTRUCTION WILL TAKE PLACE AND ALL OTHER MATTERS WHICH CAN IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT.
3. PRIOR TO COMMENCING THE EXCAVATION THE CONTRACTOR SHALL SUBMIT A PLAN OF HIS PROPOSED OPERATIONS AND TIME SCHEDULE TO THE OWNER & OWNERS REPRESENTATIVE FOR THEIR APPROVAL.
4. THE CONTRACTOR SHALL CONSIDER, AND HIS PLAN FOR EXCAVATION SHALL REFLECT, THE EQUIPMENT AND METHODS TO BE EMPLOYED IN THE EXCAVATION AND WHAT METHODS WILL BE USED WHEN WET CONDITIONS ARE ENCOUNTERED REQUIRING GROUNDWATER CONTROL, OR OTHER MOISTURE CONDITIONING. THE CONTRACTOR SHALL SUBMIT AN OUTLINE OF HIS EARTHWORK METHODS WHICH SHALL TAKE INTO ACCOUNT THE OVERALL CONSTRUCTION SCHEDULE. THE PRICES ESTABLISHED IN THE PROPOSAL FOR THE WORK TO BE DONE SHALL REFLECT ALL COSTS PERTAINING TO THE WORK. NO CLAIMS OR EXTRAS BASED ON SUBSTRATA OR GROUNDWATER TABLE CONDITIONS OR MOISTURE CONDITIONING WILL BE ALLOWED.
5. THE CONTRACTOR SHALL KEEP INFORMED AND THE OWNER'S REPRESENTATIVE INFORMED AT ALL TIMES AS TO A "FILL SURPLUS OR SHORTAGE" SITUATION. SHORTAGE OR SURPLUS OF SUITABLE MATERIAL AT THE CONCLUSION OF THE GRADING AND EARTHWORK OPERATION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HE WILL BE REQUIRED TO SUPPLY THE DEFICIENCY OR DISPOSE OF THE SURPLUS WITHOUT ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL REMOVE VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND OTHER DELETERIOUS MATERIAL FROM GROUND SURFACE PRIOR TO CUT OR FILL OPERATIONS. SUCH MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF IN A LEGAL MANNER OFF SITE.
7. MATERIALS FOR FILL OR BACKFILL REQUIRED TO GRADE THE SITE AND ACHIEVE DESIGN ELEVATIONS SHALL BE EITHER ON OR OFF-SITE SLOES WHICH ARE FREE OF ORGANIC MATTER AND DEBRIS. NO TOPSOIL SHALL BE USED AS ENGINEERED FILL.
8. NO FILL MAY BE PLACED UNTIL THE EXPOSED SURFACES HAVE BEEN APPROVED BY THE GEOTECHNICAL ENGINEER. ALL FILL MATERIALS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
9. IF ANY UNKNOWN SUBSURFACE STRUCTURES ARE ENCOUNTERED DURING CONSTRUCTION, THEY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND DESIGN ENGINEER PRIOR TO PROCEEDING.
10. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED AT THE OPTIMUM MOISTURE CONTENT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
11. NO FROZEN MATERIAL SHALL BE USED AS FILL NOR WILL ANY FILL BE PLACED ON A FROZEN BASE.
12. NO ROCK OR SIMILAR MATERIAL GREATER THAN 6" DIAMETER SHALL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE GEOTECHNICAL ENGINEER IN ADVANCE AND APPROVED BY THE OWNER AND OWNER'S REPRESENTATIVE.
13. COMPACT FILL MATERIAL TO AT LEAST THE FOLLOWING PERCENTAGE OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR), AND REMOVED FROM THESE COMPACTION DENSITIES WILL BE ALLOWED UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE OWNER AND OWNER'S REPRESENTATIVE.
- | FILL AREAS | % OF MAXIMUM DRY DENSITY |
|---|--------------------------|
| FILL UNDER BUILDING (EXTENDING 5' BEYOND FOOTINGS AT A SLOPE OF 1 ON 1) | 98% |
| FILL UNDER PAVEMENT OR SIDEWALKS | 95% |
| FILL PLACED UNDER OR BEHIND RETAINING WALLS | 95% |
| ALL OTHER WALLS | 90% |
14. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS, THAT WILL NOT EXCEED THE DEPTH IN WHICH THE COMPACTION EQUIPMENT CAN ACHIEVE THE MAXIMUM DENSITY REQUIRED FOR THE ENTIRE DEPTH OF THE MATERIAL PLACED IN THE LIFT.
15. ALL AREAS WHERE FILL HAS BEEN PLACED OR THE EXISTING SOILS HAVE BEEN DISTURBED SHALL BE SUBJECT TO COMPACTION TESTING BY THE GEOTECHNICAL ENGINEER AND SHALL BE TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, OWNER AND OWNER'S REPRESENTATIVE.
16. FILL MATERIAL UNDER PAVEMENTS OR STRUCTURES SHALL BE FREE OF ORGANIC OR DELETERIOUS MATERIALS. IT SHALL BE SUITABLE FOR SUPPORTING PAVEMENTS AND STRUCTURES WITHOUT ADVERSE SHRINKING OR SWELLING.
17. FILL MATERIAL IN BERMS AND LANDSCAPE AREAS SHALL BE SUITABLE TO SUPPORT GROWTH OF THE LANDSCAPING MATERIALS (TYPICAL FOR THE LOCAL CLIMATE) AND AS PROPOSED BY THE LANDSCAPE ARCHITECT.
18. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF, IN A LEGAL MANNER, ANY TREES, BRUSH OR DEBRIS THAT ARE WITHIN THE DESIGNATED CUTTING AND FILLING AREAS TO BRING THE SITE TO PROPOSED GRADES.
19. THE CONTRACTOR SHALL STOCKPILE EXCAVATED MATERIAL ONLY IN DESIGNATED AREAS AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
20. DURING THE PERFORMANCE OF SITE GRADING OPERATIONS, THE SUBGRADE SHALL BE EXAMINED CRITICALLY, AND ANY AREAS DISCOVERED WHICH, IN THE OPINION OF THE OWNER'S REPRESENTATIVE OR GEOTECHNICAL ENGINEER, ARE SOFT AND UNSTABLE, SHALL BE EXCAVATED TO SUCH DEPTHS AS MAY BE NECESSARY TO INSURE SATISFACTORY SUPPORTING PROPERTIES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THESE AREAS OF EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AND SHALL BE BROUGHT BACK TO THE ELEVATION OF THE SURROUNDING AREAS WITH APPROVED FILL MATERIAL AND IN ACCORDANCE WITH THE EARTH FILL CONSTRUCTION PROCEDURE.
21. NEWLY GRADED AREAS SHALL BE PROTECTED FROM THE ACTION OF THE ELEMENTS, ANY SETTLEMENT, DISPLACEMENT, PONDING OR WASHING OUT THAT MAY OCCUR PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION SHALL BE REPAIRED, AND GRADES REESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES.
22. THE FINISHED SUBGRADE SURFACE SHALL BE SHAPED TO INDICATED PROFILES AND SHALL BE REASONABLY SMOOTH AND FREE FROM IRREGULAR SURFACE CHANGES AND SHALL BE NO MORE THAN 1 INCH ABOVE OR BELOW THE INDICATED SUBGRADE ELEVATIONS.
23. THE GRADING CONTRACTOR SHALL BACKFILL ALL PARKING LOT PLANTERS AND LAWN AREAS TO WITHIN 2 INCHES OF THE TOP ADJACENT CURB GRADES. THE TOP 4 INCHES MINIMUM SHALL BE TOPSOIL, FREE FROM DEBRIS AND STONES LARGER THAN 1 INCH IN DIAMETER.
24. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PUMPS, DITCHING, WELL POINT SYSTEMS AND OTHER MEANS FOR REMOVING WATER FROM EXCAVATIONS, TRENCHES, SUBGRADES AND OTHER PARTS OF THE WORK. THE CONTRACTOR SHALL CONTINUE DOWATERING OPERATIONS UNTIL THE WATER HAS BEEN REMOVED ENTIRELY. UPON COMPLETION OF WATER REMOVAL THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DRY THE SOILS, REGRADE TO PROPOSED ELEVATIONS AND COMPACT SOILS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE.
25. THE CONTRACTOR SHALL DISPOSE OF WATER IN A SAFE AND SANITARY WAY TO PREVENT FLOODING OR INJURY TO PUBLIC OR PRIVATE PROPERTY AND SHALL OBTAIN APPROVAL OF THE LOCAL GOVERNING AUTHORITY BEFORE DISCHARGING RUN-OFF WATER TO THEIR SYSTEM. SEE EROSION CONTROL NOTES FOR ADDITIONAL REQUIREMENTS.
26. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND NEW GRADES.



BITUMINOUS PAVING SPECIFICATIONS

1. REFERENCE SPECIFICATIONS WHERE APPLICABLE TO WORK UNDER THIS SECTION ARE REFERRED TO BY ABBREVIATION AS FOLLOWS:
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
 - THE ASPHALT INSTITUTE (TAI)
 - MICHIGAN DEPARTMENT OF TRANSPORTATION/ CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION (MDOT)
 - AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
2. AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF SECTION 902 OF THE MDOT STANDARD SPECIFICATION FOR CONSTRUCTION AND SHALL CONSIST OF 21A CRUSHED AGGREGATE. THE USE OF SLAG IS PROHIBITED.
3. TACK COAT SHALL BE EMULSIFIED ASPHALT MEETING REQUIREMENTS OF MDOT SECTION 904, GRADE CSS-1H.
4. AGGREGATE SHALL CONSIST OF CRUSHED STONE, CRUSHED GRAVEL, A MIXTURE OF UNCRUSHED GRAVEL WITH EITHER CRUSHED STONE OR CRUSHED GRAVEL, OR OTHER INERT MATERIAL HAVING SIMILAR CHARACTERISTICS. IT SHALL BE COMPOSED OF CLEAN, TOUGH DURABLE FRAGMENTS FROM EXCESS OF FLAT OR ELONGATED PIECES, AND SHALL BE FREE OF ORGANIC MATTER AND DELETERIOUS SUBSTANCES AND MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATIONS, SECTION 902, 21A. CONTRACTOR MAY USE CRUSHED HMA AGGREGATE SCREENED TO MEET THE REQUIREMENTS OF MDOT 21A MATERIAL.
5. FINE AGGREGATE SHALL BE WELL GRADED FROM COARSE TO FINE AND CONSIST OF NATURAL SAND, STONE SCREENINGS, OR A BLEND OF NATURAL SAND AND STONE SCREENINGS. IT SHALL BE COMPOSED OF ROUGH SURFACED AND ANGULAR GRAINS OF QUARTZ OR OTHER HARD DURABLE ROCK AND MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATIONS, SECTION 902 FOR CLASS II OR CLASS III GRANULAR MATERIAL. CONTRACTOR MAY USE CRUSHED HMA AGGREGATE SCREENED TO MEET THE REQUIREMENTS OF MDOT CLASS II OR CLASS III MATERIAL.
6. ASPHALT CEMENT SHALL COMPLY WITH THE REQUIREMENTS OF MDOT SECTION 904.
7. HOT MIXED ASPHALT (HMA) SHALL COMPLY WITH MDOT SECTION 501 OF STANDARD SPECIFICATIONS FOR CONSTRUCTION.
8. BITUMINOUS LEVELING COURSE SHALL BE MDOT HMA, 13A, UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY OR ROAD AGENCY WITH JURISDICTION.
9. BITUMINOUS WEARING COURSE SHALL BE MDOT HMA, 36A UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY OR ROAD AGENCY WITH JURISDICTION. CONTRACTOR MAY SUBSTITUTE 13A WITH THE APPROVAL OF THE OWNER AND ENGINEER.
10. THE CONTRACTOR SHALL SUBMIT, TO THE OWNER, TWO COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR. CERTIFICATES SHALL STATE THAT EACH MATERIAL ITEM MEETS SPECIFIED REQUIREMENTS.
11. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER, JOB-MIX FORMULAS FOR EACH REQUIRED ASPHALT AGGREGATE MIXTURE. MIX DESIGNS SHALL BE WITHIN ALLOWABLE TOLERANCES AS SPECIFIED BY MDOT FOR THE PARTICULAR APPLICATION.
12. SUBGRADE PREPARATIONS SHALL CONSIST OF THE FINAL MACHINING OF THE SUBGRADE IMMEDIATELY PRIOR TO PLACING THE BITUMINOUS BASE COURSE. THE SUBGRADE SHALL BE COMPACTED PER PLANS AND DETAILS. THE SUBGRADE SHALL BE TRUE TO LINE AND GRADE.
13. CRUSHED AGGREGATE BASE COURSE SHALL BE COMPACTED TO A DENSITY EQUAL TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR).
14. BITUMINOUS CONCRETE PAVEMENT CONSTRUCTION METHODS SHALL CONFORM TO APPLICABLE PORTIONS OF SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
15. THE CONTRACTOR SHALL NOT PLACE THE AGGREGATE BASE COURSE OR THE BITUMINOUS BASE COURSE PRIOR TO THE APPROVAL OF THE SUBGRADE BY THE GEOTECHNICAL ENGINEER.
16. EACH LIFT AND COURSE OF BITUMINOUS CONCRETE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER, PRIOR TO THE PLACEMENT OF A SUCCEEDING COURSE OR LIFT.
17. APPLY BITUMINOUS TACK COATS ONLY WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES F. FOR 12 HOURS IMMEDIATELY PRIOR TO APPLYING AND CONSTRUCT BITUMINOUS CONCRETE WEARING COURSE ONLY WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40-DEGREES F AND RISING, AND PROCEEDING COURSE OR LIFT IS CLEAN AND DRY. BASE COURSE MAY BE LAID WHEN TEMPERATURE IS ABOVE 35 DEGREES F, AND RISING AND APPROVED BY THE GEOTECHNICAL ENGINEER.
18. THE BITUMINOUS CONCRETE SHALL BE TRANSPORTED FROM THE MIXING PLANT TO THE POINT OF USE IN VEHICLES CONFORMING TO THE REQUIREMENTS OF SECTION 501 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. DELIVERIES SHALL BE SCHEDULED SO THAT SPREADING AND ROLLING OF ALL BITUMINOUS CONCRETE PREPARED FOR ONE DAY'S RUN CAN BE COMPLETED DURING DAYLIGHT, UNLESS ADEQUATE ARTIFICIAL LIGHTING IS PROVIDED. HAULING OVER FRESHLY PLACED BITUMINOUS MAT SHALL NOT BE PERMITTED UNTIL THE BITUMINOUS CONCRETE HAS BEEN COMPACTED, AS SPECIFIED, AND ALLOWED TO COOL TO ATMOSPHERIC TEMPERATURE.
19. UPON ARRIVAL, THE BITUMINOUS CONCRETE SHALL BE SPREAD TO A THICKNESS NOT TO EXCEED 3-INCHES AND TO THE FULL WIDTH BY AN APPROVED BITUMINOUS PAYER. IT SHALL BE STRUCK OFF IN A UNIFORM LAYER OF SUCH DEPTH THAT, WHEN THE WORK IS COMPLETED, IT SHALL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND CONTOUR INDICATED. THE SPEED OF THE PAYER SHALL BE REGULATED TO ELIMINATE PULLING AND TEARING OF THE BITUMINOUS MAT. UNLESS OTHERWISE DIRECTED, PLACEMENT OF THE BITUMINOUS CONCRETE SHALL BEGIN ALONG THE CENTERLINE OF A CROWLEDGE OR ON THE HIGH SIDE OF AREAS WITH A ONE-WAY SLOPE. THE BITUMINOUS CONCRETE SHALL BE PLACED IN CONSECUTIVE ADJACENT STRIPS HAVING A MINIMUM WIDTH OF 10 FEET, EXCEPT WHERE EDGE LAYERS REQUIRE LESS THAN 10 FEET. JOINTS IN CONSECUTIVE JOINTS IN ADJACENT LANES SHALL BE OFFSET A MINIMUM OF 10 FEET. WHERE POSSIBLE, JOINTS SHALL BE LOCATED AT THE LANE EDGES.
20. ON AREAS WHERE IRREGULARITIES OR UNAVOIDABLE OBSTACLES MAKE THE USE OF MECHANICAL SPREADING AND FINISHING EQUIPMENT IMPRACTICAL, THE BITUMINOUS CONCRETE MAY BE SPREAD AND RAKED BY HAND TOOLS.
21. THE BITUMINOUS CONCRETE SHALL BE PLACED AT A TEMPERATURE OF NOT LESS THAN 250 NOR HIGHER THAN THE RECOMMENDED TEMPERATURE OF THE BINDER PRODUCER OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
22. THE BITUMINOUS CONCRETE MIXTURE SHALL BE THOROUGHLY AND UNIFORMLY COMPACTED BY ROLLING. THE SURFACE SHALL BE TRUE TO LINE AND THE BITUMINOUS MAT HAS ATTAINED SUFFICIENT STABILITY SO THAT THE ROLLING DOES NOT CAUSE UNDEE DISPLACEMENT, CRACKING AND SHOWING. THE SEQUENCE OF ROLLING OPERATIONS SHALL BE AS AT THE DISCRETION OF THE CONTRACTOR.
23. THE SPEED OF THE ROLLER SHALL, AT ALL TIMES, BE SUFFICIENTLY SLOW TO AVOID DISPLACEMENT OF THE HOT BITUMINOUS CONCRETE. ANY DISPLACEMENT OCCURRING AS A RESULT OF REVERSING THE DIRECTION OF THE ROLLER, OR FROM ANY OTHER CAUSE, SHALL BE CORRECTED AT ONCE.
24. SUFFICIENT ROLLERS SHALL BE FURNISHED TO HANDLE THE OUTPUT OF THE PLANT. ROLLING SHALL CONTINUE UNTIL ALL ROLLER MARKS ARE ELIMINATED, THE SURFACE IS OF UNIFORM TEXTURE AND TRUE TO GRADE AND CROSS-SECTION, AND THE REQUIRED FIELD DENSITY IS OBTAINED.
25. TACK COAT SHALL BE APPLIED TO THE SURFACE OF PREVIOUS LIFTS AND COURSES OF BITUMINOUS CONCRETE AND TO SURFACES ABUTTING OR PROJECTING INTO THE BITUMINOUS CONCRETE.
26. IMMEDIATELY BEFORE PLACING A SUCCEEDING LIFT OR COURSE OF BITUMINOUS CONCRETE THE PRECEDING LIFT OR COURSE SHALL BE CLEARED OF ANY DEBRIS OR STANDING WATER BY APPROPRIATE METHODS.
27. TO PREVENT ADHESION OF THE BITUMINOUS CONCRETE TO THE ROLLER, THE WHEELS SHALL BE KEPT PROPERLY MOISTENED, BUT EXCESSIVE WATER WILL NOT BE PERMITTED.
28. IN AREAS NOT ACCESSIBLE TO THE ROLLER, THE BITUMINOUS CONCRETE SHALL BE THOROUGHLY COMPACTED WITH HOT HAND TAMPERS.
29. ANY BITUMINOUS CONCRETE THAT BECOMES LOOSE AND BROKEN, MIXED WITH DIRT, OR IN ANY WAY DEFECTIVE SHALL BE REMOVED AND REPLACED WITH FRESH HOT BITUMINOUS CONCRETE AND IMMEDIATELY COMPACTED TO CONFORM TO THE SURROUNDING AREA. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. SKIN PATCHING SHALL NOT BE ALLOWED.
30. THE CONTRACTOR SHALL PROVIDE AT LEAST TWO ROLLERS FOR EACH PAYER OPERATING ON THE WORK. THE CONTRACTOR SHALL USE ADDITIONAL ROLLERS AS REQUIRED TO OBTAIN THE SPECIFIED PAVEMENT DENSITY.
31. THE CONTRACTOR SHALL CAREFULLY MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE A CONTINUOUS BOND BETWEEN ADJUNCT WORK. CONSTRUCT JOINTS TO HAVE THE SAME TEXTURE, DENSITY AND SMOOTHNESS AS OTHER SECTIONS OF THE BITUMINOUS CONCRETE COURSE. THE CONTRACTOR SHALL CLEAN CONTACT SURFACES OF SAND, DIRT, OR OTHER OBJECTIONABLE MATERIAL AND APPLY TACK COAT BEFORE MAKING THE JOINT

BITUMINOUS PAVING SPECIFICATIONS, CONTINUED

31. THE CONTRACTOR SHALL TEST THE FINISHED SURFACE OF EACH BITUMINOUS CONCRETE COURSE FOR SMOOTHNESS, USING A 10 FOOT STRAIGHTEDGE APPLIED PARALLEL WITH AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA. SURFACE SHALL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS.
- LEVELING COURSE SURFACE: 1/4 INCH, PLUS OR MINUS 1/4 INCH.
 - SURFACE COURSE: 1/4 INCH
33. THE CONTRACTOR SHALL TEST CROWNED SURFACES WITH A CROWN TEMPLATE, CENTERED AND AT RIGHT ANGLES TO THE CROWN. SURFACES WILL NOT BE ACCEPTABLE IF THE FINISHED CROWN SURFACES VARY MORE THAN 1/4 INCH FROM THE CROWN TEMPLATE.
34. AFTER FINAL ROLLING, THE CONTRACTOR SHALL NOT PERMIT VEHICULAR TRAFFIC ON THE BITUMINOUS CONCRETE PAVEMENT UNTIL IT HAS COOLED AND HARDENED, AND IN NO CASE SOONER THAN SIX HOURS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
35. THE AGGREGATE BASE MUST EXTEND A MINIMUM OF 1' BEHIND THE BACK-OF-CURB OR BEYOND EDGE OF PAVEMENT WHEN NO CURB IS PROPOSED.
36. ALL WORK WITHIN THE SPRINKLE ROAD RIGHT OF WAY WILL BE SUBJECT TO PERMITTING THROUGH THE ROAD COMMISSION OF KALAMAZOO COUNTY AND THEIR CONSTRUCTION STANDARDS.
3. THE SPECIFICATIONS SHALL GOVERN THE CONSTRUCTION OF ALL PAVEMENTS, CURB AND GUTTER, SIDEWALKS, SERVICE WALKS, DRIVEWAY APPROACHES, AND LOADING DOCK AREAS, AS INDICATED ON THE DRAWINGS.
2. REFERENCE SPECIFICATIONS WHERE APPLICABLE TO WORK UNDER THIS SECTION ARE REFERRED BY ABBREVIATION AS FOLLOWS:
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
 - AMERICAN CONCRETE INSTITUTE (ACI)
 - MICHIGAN DEPARTMENT OF TRANSPORTATION/ CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION (MDOT)
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
3. THE FINE AGGREGATE SHALL MEET ALL REQUIREMENTS OF SECTION 902 OF MDOT SPECIFICATION FOR NO. 2MS NATURAL SAND.
4. THE COARSE AGGREGATE SHALL MEET ALL REQUIREMENTS OF SECTION 902 OF M.D.O.T. SPECIFICATIONS FOR 6AA COARSE AGGREGATE.
5. THE CONTRACTOR SHALL SUBMIT, TO THE OWNER, TWO COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR. CERTIFICATES SHALL STATE THAT EACH MATERIAL ITEM MEETS SPECIFIED REQUIREMENTS.
6. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER, JOB MIX-FORMULAS FOR EACH REQUIRED CEMENT-AGGREGATE MIXTURE. MIX DESIGNS SHALL BE WITHIN ALLOWABLE TOLERANCES AS SPECIFIED FOR THE PARTICULAR APPLICATION.
7. CONCRETE MIX SHALL BE AIR-ENTRAINED AND PROPORTIONED TO PROVIDE THE FOLLOWING:
- COMPRESSIVE STRENGTH AT 28 DAYS: 3500 PSI MIN, OR AS INDICATED ON PLANS.
 - TOTAL AIR CONTENT BY VOLUME: 5% TO 8%.
 - SLUMP 3 INCH MAXIMUM, OR AS INDICATED ON PLANS.
8. THE CONTRACTOR SHALL AT HIS EXPENSE FURNISH SAMPLES OF FRESH CONCRETE AND PROVIDE SAFE AND SATISFACTORY FACILITIES FOR OBTAINING THE SAMPLES.
9. CONSTRUCT CONCRETE CURBING ONLY WHEN GROUND TEMPERATURE IS ABOVE 35 DEGREES F, AND BASE IS DRY.
10. ALL CEMENT USED IN CURB CONSTRUCTION SHALL BE PORTLAND CEMENT, TYPE I OR IA ASTM C-150.
11. WATER USED IN CONCRETE SHALL MEET THE REQUIREMENTS OF MDOT SECTION 911.
12. AIR ENTRAINING ADMIXTURE SHALL BE SELECTED FROM THE MDOT QUALIFIED PRODUCTS LIST.
13. ALL READY-MIXED CONCRETE SUPPLIERS MUST BE APPROVED BY THE OWNER AND MEET THE CURRENT REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION (NRMA). IF REQUESTED BY THE OWNER, SUBMIT A WRITTEN DESCRIPTION OF PROPOSED READY-MIXED CONCRETE MANUFACTURER, GIVING QUALIFICATIONS OF PERSONAL, LOCATION OF BATCHING PLANT, LIST OF PROJECTS SIMILAR IN SCOPE OF SPECIFIED WORK, AND OTHER INFORMATION AS MAY BE REQUESTED BY THE OWNER.
14. THE CONTRACTOR SHALL SUBMIT A STATEMENT OF PURCHASE FOR READY-MIXED CONCRETE: PRIOR TO ACTUAL DELIVERY OF CONCRETE, SUBMIT TO THE GEOTECHNICAL ENGINEER FOUR COPIES OF STATEMENT OF PURCHASE, GIVING THE DRY WEIGHTS OF CEMENT AND SATURATED SURFACE DRY WEIGHTS OF FINE AND COARSE AGGREGATES AND QUANTITIES, TYPE AND NAME OF ADMIXTURES (IF ANY) AND OF WATER PER CYLTD., THAT WILL BE USED IN THE MANUFACTURE OF THE CONCRETE. THE CONTRACTOR SHALL ALSO FURNISH EVIDENCE TO THE GEOTECHNICAL ENGINEER THAT THE MATERIALS TO BE USED AND PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF THE QUALITY SPECIFIED. WHATEVER STRENGTHS ARE OBTAINED, THE QUANTITY OF CEMENT USED SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED.
15. READY-MIXED CONCRETE DELIVERY TICKETS: SUBMIT ONE COPY OF EACH DELIVERY TICKET TO THE GEOTECHNICAL ENGINEER AND CONTRACTOR IN ACCORDANCE WITH SECTION 16 OF ASTM C94.
16. READY-MIXED CONCRETE SHALL BE BATCHED, MIXED AND TRANSPORTED IN ACCORDANCE WITH ASTM C94, AND COMPLY WITH ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE," EXCEPT AS OTHERWISE SPECIFIED HEREIN.
17. READY-MIXED CONCRETE SHALL BE MIXED AND DELIVERED TO THE POINT OF DISCHARGE AT THE JOB BY MEANS OF A READY MIX CONCRETE TRUCK.
18. NO WATER FROM THE TRUCK WATER SYSTEM OR ELSEWHERE SHALL BE ADDED AFTER THE INITIAL INTRODUCTION OF THE MIXING WATER FOR THE BATCH. UNDER NO CIRCUMSTANCES SHALL THE APPROVED MAXIMUM WATER CONTENT BE EXCEEDED NOR SHALL THE SLUMP EXCEED THE MAXIMUM SPECIFIED.
19. DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 1-1/2 HOURS OR BEFORE THE DRUM HAS REVOLVED 300 REVOLUTIONS, WHICHEVER COMES FIRST, AFTER THE INTRODUCTION OF THE MIXING WATER TO THE CEMENT AND AGGREGATES OR THE INTRODUCTION OF THE CEMENT TO THE AGGREGATES.
20. IN HOT WEATHER (AIR TEMPERATURE 80-DEGREES F. AND ABOVE) OR UNDER CONDITIONS CONTRIBUTING TO QUICK STIFFENING OF THE CONCRETE, THE TIME SHALL BE REDUCED TO ONE HOUR.
21. CONCRETE DELIVERED IN COLD WEATHER (AIR TEMPERATURE 45-DEGREES F. AND LOWER) SHALL HAVE A TEMPERATURE NOT LESS THAN 40-DEGREES F. AT THE POINT OF DISCHARGE AT THE JOB, AND IN COMPLIANCE WITH ACI 306R "COLD WEATHER CONCRETING". CONCRETE PLACING WILL NOT BE PERMITTED WHEN THE AIR TEMPERATURE IS 35-DEGREES F. OR LOWER.
22. CONCRETE DELIVERED UNDER HOT WEATHER CONDITIONS CONTRIBUTING TO QUICK STIFFENING OF CONCRETE, OR IN AIR TEMPERATURE OF 80-DEGREES F. AND OVER, SHALL HAVE A TEMPERATURE BETWEEN 60- AND 90-DEGREES F. AT THE POINT OF DISCHARGE AT THE JOB, AND IN ACCORDANCE WITH ACI 305R "HOT WEATHER CONCRETING."
23. IN NO CASE SHALL THE MIXER OR TRUCK BE FLUSHED OUT ONTO THE STREET PAVEMENT, IN A CATCH BASIN OR SEWER MANHOLE, OR IN ANY PUBLIC RIGHT-OF-WAY. SEE SOIL EROSION CONTROL PLAN FOR CONCRETE WASHOUT LOCATION.
24. REINFORCEMENT BARS SHALL BE PER MDOT SECTION 905.
25. TIE WIRE SHALL BE BLACK, ANNEALED STEEL WIRE, NOT LESS THAN 16 GAUGE.

CONCRETE CURB, SIDEWALK AND PAVEMENT SPECIFICATIONS, CONTINUED

26. BAR SUPPORTS SHALL CONFORM TO THE BAR SUPPORT SPECIFICATIONS CONTAINED IN CONCRETE REINFORCING STEEL INSTITUTE'S (CRSI) "MANUAL OF STANDARD PRACTICE." PROVIDE CHAIRS, SPACERS AND OTHER DEVICES SUITABLE FOR PROPER SPACING SUPPORTING AND FASTENING REINFORCING BARS.
27. WHEN FORMS ARE USED AND THE CURB RADIUS IS LESS THAN 200 FEET, THE CURVED ALIGNMENT SHALL BE PROVIDED FOR BY EITHER STANDARD STEEL FORMS EQUIPPED WITH FLEXIBLE LINES OR BY FLEXIBLE FORMS. THE FORMS SHALL BE OF THE FULL DEPTH OF THE SECTION. CURB AND GUTTER FORMS SHALL BE SO CONSTRUCTED AS TO PERMIT THE INSIDE OF THE FORMS TO BE SECURELY FASTENED TO THE OUTSIDE FORMS.
28. ALL NEW CURB SHALL BE PLACED ONLY ON A PREPARED SUBGRADE, SMOOTH AND LEVELED TO THE GRADES ESTABLISHED BY THE ENGINEER.
29. COMPACT AND CUT-TO-GRADE SUBGRADE UNDER FORMS SO THAT FORMS WHEN SET WILL BE UNIFORMLY SUPPORTED FOR THE ENTIRE LENGTH. SECURELY STAKE AND BRACE OR TIE FORMS TO PREVENT LEAKAGE OF MORTAR. BRACING WITH EARTH WILL NOT BE PERMITTED.
30. COAT SURFACES OF FORMS TO BE IN CONCRETE WITH A LIGHT CLEAR PARAFFIN OIL OR PARTING COMPOUND WHICH WILL NOT STAIN THE CONCRETE.
31. THE INTERIOR SURFACES OF CONCRETE CONVEYING EQUIPMENT SHALL BE MAINTAINED FREE OF HARDENED CONCRETE, DEBRIS, WATER, SNOW, ICE AND OTHER DELETERIOUS MATERIALS.
32. CURBING MAY BE CONSTRUCTED EITHER BY USE OF FORMS OR BY A MECHANICAL CURB AND GUTTER PAYER, PROVIDED THE REQUIRED FINISH, AND CROSS-SECTION, IS OBTAINED. CURBING MAY BE OBTAINED BY EITHER METHOD. THE CONTRACTOR MAY USE ONE COURSE MONOLITHIC STRUCTURE WITHOUT THE USE OF MORTAR TOPPING OR SAND-CEMENT DRIER. CONCRETE SHALL BE SPADED OR VIBRATED SUFFICIENTLY TO ENSURE SATISFACTORY CONSOLIDATION.
33. PROVIDE REINFORCEMENT FOR CONCRETE CURB AS SHOWN ON THE DRAWINGS. REINFORCEMENT SHALL BE KEPT CLEAN AND FREE FROM OBJECTIONABLE RUST. BENDS OR KINKS IN REINFORCING BARS SHALL BE CORRECTED BEFORE PLACING. ALL REINFORCEMENT SHALL BE ACCURATELY LOCATED IN FORMS AND SECURELY HELD IN PLACE BEFORE AND DURING CONCRETE PLACING, BY SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
34. THE CONCRETE CURB SURFACE SHALL BE STRUCK OFF THE REQUIRED CROSS-SECTION WITH A TEMPLATE. AFTER THE CONCRETE CURB HAS BEEN FLOATED TO AN EVEN SURFACE, THE CONTRACTION JOINT SHALL BE CUT AND ALL SLAB EDGES ROUNDED WITH A 1/2 INCH RADIUS EDGING TOOL THAT WILL FINISH TO A WIDTH OF 2 INCHES. AFTER THE CONCRETE HAS SLIGHTLY SET, A BROOM SHALL BE BRUSHED LIGHTLY ACROSS THE SURFACE PARALLEL TO FORMS SO AS TO IMPART A ROUGH FINISH.
35. CONTRACTION JOINTS SHALL BE CUT IN CONCRETE CURBING AT MINIMUM 10' INTERVALS. THE JOINT SHALL CUT 1/4 INCH WIDE BY 1/3 THE DEPTH OF THE CONCRETE CURB SECTION. JOINTS SHALL ALSO BE LOCATED ADJACENT TO CURB DROPS.
36. ISOLATION JOINTS SHALL BE PLACED IN CURBING AT TANGENT POINTS IN CURB RETURNS AT INTERSECTIONS, AT BOTH SIDES OF STRUCTURES LOCATED IN THE LINE AND IN RUNS OF CURB AT INTERVALS NOT EXCEEDING 400 FEET. ISOLATION JOINTS SHALL BE 1" THICK PRE-FORMED JOINT FILLER STRIPS. THE STRIPS SHALL EXTEND THE FULL DEPTH OF THE CONCRETE CURB SECTION. ISOLATION JOINTS SHALL BE PLACED IN CURB AT THE END OF EACH DAYS POUR AND WHEN ABUTTING PREVIOUSLY POURED CURB.
37. THE CURING COMPOUND SHALL BE A WHITE PARAFIN BASED COMPOUND SELECTED FROM MDOT'S QUALIFIED PRODUCTS LIST APPLIED AT 200 SQ.FT./GAL.
38. ALL CONTRACTION JOINTS IN CONCRETE CURB SECTIONS SHALL BE SEALED WITH EITHER HOT FILLER JOINT SEALER OR COLD APPLIED JOINT SEALER.
39. SLIGHTLY UNDERFILL JOINT GROOVE WITH JOINT SEALER TO PREVENT EXTRUSION OF THE SEALER. REMOVE EXCESS JOINT SEALER MATERIALS AS SOON AFTER SEALING AS POSSIBLE.
40. FRESHLY PLACED CONCRETE SHALL BE PROTECTED AS REQUIRED TO MAINTAIN THE TEMPERATURE OF THE CONCRETE AT NOT LESS THAN 50 DEGREES F. NOR MORE THAN 80 DEGREES F. AND IN A MOST CONDITION CONTINUOUSLY FOR THE PERIOD OF TIME NECESSARY FOR THE CONCRETE TO MAINTAIN THE TEMPERATURE OF THE CONCRETE DURING CURING SHALL BE AS UNIFORM AS POSSIBLE AND SHALL NOT EXCEED 5 DEGREES F. IN ANY ONE HOUR, NOR 50 DEGREES F. IN ANY 24 HOUR PERIOD.
41. COLD WEATHER PROTECTION: WHEN THE TEMPERATURE OF THE ATMOSPHERE IS 40-DEGREES F. AND BELOW, THE CONCRETE SHALL BE PROTECTED BY HEATING, INSULATION, OR COVERING, OR A COMBINATION OF THESE AS REQUIRED TO MAINTAIN THE TEMPERATURE OF THE CONCRETE AT OR ABOVE 50-DEGREES F. AND IN A MOST CONDITION CONTINUOUSLY FOR THE CONCRETE CURING PERIOD. COLD WEATHER PROTECTION SHALL MEET THE REQUIREMENTS OF ACI 306R "COLD WEATHER CONCRETING".
42. HOT WEATHER PROTECTION: WHEN THE TEMPERATURE OF THE ATMOSPHERE IS 90-DEGREES F. AND ABOVE, OR DURING OTHER CLIMATIC CONDITIONS WHICH WILL CAUSE TOO RAPID DRYING OF THE CONCRETE, THE CONCRETE SHALL BE PROTECTED BY WINDBREAKS, SHADING, FOG SPRAYING LIGHT COLORED MOISTURE RETAINING COVERING, OR A COMBINATION OF THESE AS REQUIRED TO MAINTAIN THE TEMPERATURE OF THE CONCRETE BELOW 80-DEGREE F. AND IN A MOST CONDITION CONTINUOUSLY FOR THE CONCRETE CURING PERIOD. HOT WEATHER PROTECTION SHALL MEET THE REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING".
43. ALL FORMS, RAILS AND STAKES SHALL BE REMOVED WITHIN 24 HOURS AFTER COMPLETION OF SECTION OR CURBING. THE CONCRETE SHALL BE IMMEDIATELY BACKFILLED OR SPRAYED WITH CURING COMPOUND.
44. AFTER COMPLETION OF CONCRETE CURBING IN AN AREA, REMOVE ALL WEATHER PROTECTION MATERIALS, RUBBER AND DEBRIS RESULTING FROM SPECIFIED WORK, SWEEP CONCRETE CURBS CLEAN, AND SEAL JOINTS.
45. ALL CEMENT USED IN SIDEWALK CONSTRUCTION SHALL BE PORTLAND CEMENT, TYPE I OR IA ASTM C-150.
46. ALL NEW WALKS AND CONCRETE PAVEMENTS SHALL BE PLACED ONLY ON A PREPARED SUBGRADE, SMOOTHED AND LEVELED TO THE GRADES ESTABLISHED BY THE ENGINEER. IN CLAY SOILS THE SUBGRADE SHALL BE EXCAVATED 2-INCHES BELOW THE SIDEWALK BASE AND FILLED WITH APPROVED SAND MEETING MDOT CLASS II, SAND DESIGNATION.
47. CONSTRUCT CONCRETE SURFACE COURSE ONLY WHEN GROUND TEMPERATURE IS ABOVE 35 DEGREES F. AND BASE IS DRY.
48. SIDEWALKS SHALL PITCH TOWARD THE STREET OR AWAY FROM BUILDINGS WITH A MAXIMUM CROSS SLOPE OF 1/4-INCH PER FOOT OF WIDTH AND A MINIMUM CROSS SLOPE OF 1/8-INCH PER FOOT OF WIDTH. CROSS SLOPE DIRECTION TRANSITIONS SHALL BE ACCOMPLISHED IN LENGTHS OF 10 FEET OR LESS.
49. PRIOR TO PLACING THE CONCRETE, ALL DEBRIS, STONES, DIRT, ETC., SHALL BE REMOVED FROM THE SUBGRADE. THE SUBGRADE SHALL BE MOISTENED WITH WATER IN SUCH A MANNER AS TO THOROUGHLY WET THE MATERIAL WITHOUT FORMING PUDDLES OR POCKETS OF WATER. NO CONCRETE SHALL BE PLACED ON FROZEN SUBGRADE.
50. FORMS SHALL BE METAL OR WOOD AND OF AN APPROVED SECTION. THEY SHALL BE STRAIGHT, FREE FROM DISTORTION AND SHALL SHOW NO TRUE PLANE VARIATION GREATER THAN 1/8-INCH IN 10-FOOT LENGTHS FROM THE TRUE PLANE SURFACE ON THE TOP OF THE FORMS. IN 10-FOOT STRAIGHT LENGTHS, THEY SHALL NOT SHOW NO LATERAL VARIATION GREATER THAN 1/4-INCH IN 10-FOOT FROM THE TRUE PLANE SURFACE OF THE LATERAL FACE OF THE FORM WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE. THEY SHALL BE OF THE DEPTH SPECIFIED FOR THE SIDEWALK, OR CONCRETE PAVEMENT PER PLANS AND DETAILS, AND BE SECURELY HELD IN PLACE AND TRUE TO LINE AND GRADE.
51. THE CONCRETE SHALL BE DEPOSITED CONTINUOUSLY IN THE FORMS IN SUCH A MANNER AS TO AVOID SEGREGATION AND IT SHALL BE THOROUGHLY TAMPED OR VIBRATED SO THAT THE FORMS ARE ENTIRELY FILLED AND THE CONCRETE THOROUGHLY CONSOLIDATED. THE SLABS SHALL BE PLACED IN SECTIONS OR BLOCKS IN ONE OPERATION AS A MONOLITH.
52. THE CONCRETE SURFACE SHALL BE STRUCK OFF TO A PLANE SURFACE WITH A STRAIGHTEDGE. AFTER THE CONCRETE HAS BEEN FLOATED TO AN EVEN SURFACE, THE CONTRACTION JOINT SHALL BE CUT AND ALL SLAB EDGES ROUNDED WITH A 1/2-INCH RADIUS EDGING TOOL THAT WILL FINISH TO A WIDTH OF 2-INCHES. AFTER THE CONCRETE HAS SLIGHTLY SET, A BROOM SHALL BE BRUSHED LIGHTLY ACROSS THE SURFACE AT RIGHT ANGLES TO FORMS SO AS TO IMPART A ROUGH FINISH.
53. CONTRACTION JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE SIDEWALK OR CONCRETE PAVEMENT AND PERPENDICULAR TO THE SURFACE AND AT A DEPTH OF AT LEAST 1/4 THE SLAB THICKNESS WITH A MINIMUM DEPTH OF 1-1/4-INCHES FOR SIDEWALKS AND 3-INCHES FOR CONCRETE PAVEMENT SLABS.
54. CONTRACTION JOINTS IN SIDEWALKS SHALL BE SPACED AT A MINIMUM OF EVERY 5-FEET IN 4" SIDEWALK, OR 8-FEET IN 6" SIDEWALK, OR AS SHOWN ON THE PLANS.

CONCRETE CURB, SIDEWALK AND PAVEMENT SPECIFICATIONS, CONTINUED

55. ISOLATION PAPERS SHALL BE OF THE PRE-MOLDED, NON-EXTRUDING, ASPHALT IMPREGNATED TYP, NOT LESS THAN 1/2-INCH THICK. THE LENGTH SHALL BE EQUAL TO THE WIDTH OF THE SLAB, AND THE DEPTH EQUAL TO THE THICKNESS OF THE SLAB PLUS 1-INCH.
56. ISOLATION JOINTS SHALL BE PLACED AT THE FOLLOWING LOCATION FOR SIDEWALKS AND CONCRETE PAVEMENTS:
- AT THE BACK OF THE CURB AND FRONT EDGE OF THE SIDEWALKS AND PAVEMENT SLABS ADJACENT TO EACH DRIVEWAY APPROACH AND SERVICE WALK.
 - AT INTERVALS NOT TO EXCEED 50-FEET IN ALL PUBLIC SIDEWALKS.
 - AT THE BACK OF THE CURB WHERE THE RAMPS EXTEND FROM THE KEY FLAG TO THE PAVEMENT.
 - BETWEEN THE KEY FLAG AND THE RAMP IN ALL CASES, EXCEPT WHERE THERE ARE EXISTING EXPANSION JOINTS AT THE INTERSECTIONS OF THE SIDEWALKS AND THE KEY FLAG.
 - AT ANY PLACE WHERE A SIDEWALK OR CONCRETE PAVEMENT ABUTS A BUILDING OR FIXED STRUCTURE.
 - AT ANY OTHER LOCATIONS INDICATED ON THE PLAN.
57. CONTRACTION JOINTS IN THE CONCRETE PAVEMENT WILL BE AS FOLLOWS:
- TRANSVERSE JOINTS SHALL BE AT MAXIMUM 10-FOOT INTERVALS OR AS SHOWN ON PLANS AND DETAILS.
 - LONGITUDINAL JOINTS SHALL BE AT MAXIMUM 12-FOOT INTERVALS OR AS SHOWN ON PLANS AND DETAILS.
58. PRIOR TO APPLYING JOINT SEALER, CLEAN JOINT GROOVE OF FOREIGN MATTER AND LOOSE PARTICLES, AND DRY SURFACE.

TRAFFIC LANE AND PARKING LOT MARKING

1. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY TO CONSTRUCT ALL TRAFFIC LANE AND PARKING LOT MARKINGS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
2. WORK INCLUDES, BUT NOT LIMITED TO PAINTING OF LETTERS, MARKINGS, STRIPES AND ISLANDS ON THE PAVEMENT SURFACE APPLIED IN ACCORDANCE WITH THIS SPECIFICATION AND AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. TRAFFIC MARKING PAINT SHALL MEET THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-P-1952F, WITH OR WITHOUT REFLECTORIZED BEADS AS REQUIRED ON THE PLANS, OR SHALL BE A PRODUCT FROM THE CURRENT MDOT QUALIFIED PRODUCTS LIST.
4. COLOR SHALL BE AS SPECIFIED ON THE PLANS OR AS FOLLOWS:
- TRAFFIC LANE STRIPING SHALL BE WHITE OR YELLOW REFLECTORIZED, AS SHOWN ON THE PLANS.
 - TRAFFIC MARKING AND CURB FACES SHALL BE WHITE UNLESS NOTED OTHERWISE.
 - PARKING LOT STRIPING SHALL BE WHITE, UNLESS NOTED OTHERWISE.
 - HANDICAP STALL STRIPING MEETING CURRENT ADA REQUIREMENTS SHALL BE BLUE UNLESS NOTED OTHERWISE.
5. THE PAINTING SHALL BE PERFORMED ONLY WHEN THE EXISTING SURFACE IS DRY AND CLEAN, WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 40-DEGREES F. AND WHEN THE WEATHER IS NOT EXCESSIVELY WINDY, DUSTY OR FOGGY AND WHEN RAIN IS NOT FORECASTED FOR AT LEAST 2 HOURS AFTER PAINT IS APPLIED.
6. ALL EQUIPMENT FOR THE WORK SHALL BE APPROVED BY THE CONTRACTOR AND SHALL INCLUDE THE APPARATUS NECESSARY TO PROPERLY CLEAN THE EXISTING SURFACE, A MECHANICAL MARKING MACHINE, AND SUCH AUXILIARY HAND EQUIPMENT AS MAY BE NECESSARY TO SATISFACTORILY COMPLETE THE JOB.
7. THE MECHANICAL MARKER SHALL BE AN APPROVED ATOMIZING SPRAY-TYPE MARKING MACHINE SUITABLE FOR APPLICATION OF TRAFFIC PAINT. IT SHALL PRODUCE AN EVEN AND UNIFORM FILM THICKNESS AT THE REQUIRED COVERAGE AND SHALL BE DESIGNED TO APPLY MARKINGS OF UNIFORM CROSS-SECTIONS AND CLEAR-OUT EDGES WITHOUT RUNNING OR SPATTERING AND WITHIN THE LIMITS FOR STRAIGHTNESS SET FORTH HEREIN. WHEN NEEDED, A DISPENSER SHALL BE FURNISHED, WHICH IS PROPERLY DESIGNED FOR ATTACHMENT TO THE MECHANICAL MARKER AND SUITABLE FOR DISPENSING THE REQUIRED QUANTITY OF REFLECTIVE BEADS.
8. SUITABLE ADJUSTMENTS SHALL BE PROVIDED ON THE SPRAYER/SPRAYERS OF A MACHINE FOR PAINTING THE WIDTH REQUIRED. MULTIPLE PATTERN PASSES TO PAINT THE REQUIRED WIDTH WILL NOT BE ALLOWED.
9. IMMEDIATELY BEFORE APPLICATION OF THE PAINT, THE EXISTING SURFACE SHALL BE DRY AND ENTIRELY FREE FROM DIRT, GREASE, OIL, ACIDS, DEBRIS, OR OTHER FOREIGN MATTER WHICH WOULD REDUCE THE BOND BETWEEN THE COAT OF PAINT AND THE PAVEMENT. THE SURFACE SHALL BE THOROUGHLY CLEANED BY SWEEPING AND BLOWING AS REQUIRED TO REMOVE ALL DIRT, DEBRIS AND LOOSE MATERIALS. AREAS WHICH CANNOT BE SATISFACTORILY CLEANED BY BROOMING AND BLOWING SHALL BE SCRUBBED AS DIRECTED WITH A WATER SOLUTION OF TRISODIUM PHOSPHATE (10% BY WEIGHT) OR AN APPROVED EQUAL SOLUTION. AFTER SCRUBBING, THE SOLUTION SHALL BE RINSED OFF AND THE SURFACE DRIED PRIOR TO PAINTING.
10. EXISTING MARKINGS OR STRIPES WHICH ARE TO BE ABANDONED OR REMOVED SHALL BE OBLITERATED BY THE BEST METHOD SUITED FOR THE PURPOSE AND TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR IS RESPONSIBLE FOR LAYING OUT A SAMPLE SECTION OF STRIPING WHICH IS TO BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE AS TO QUALITY BEFORE THE CONTRACTOR MAY PROCEED WITH THE STRIPING. THE CONTRACTOR IS TO INSURE THAT ALL SUBSEQUENT STRIPING MEETS THE QUALITY OF THE APPROVED SAMPLE APPLICATION.
12. ON THOSE SECTIONS OF PAVEMENTS WHERE NO PREVIOUSLY APPLIED FIGURES, MARKINGS, OR STRIPES ARE AVAILABLE TO SERVE AS A GUIDE, SUITABLE LAYOUTS AND LINES OF PROPOSED STRIPES SHALL BE SPOTTED IN ADVANCE OF THE PAINT APPLICATION. CONTROL POINTS SHALL BE SPACED AT SUCH INTERVALS AS WILL ENSURE ACCURATE LOCATION OF ALL MARKINGS.
13. THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED TECHNICIAN TO SUPERVISE THE LOCATION ALIGNMENT, LAYOUT, DIMENSIONS AND APPLICATION OF THE PAINT.
14. MARKINGS SHALL BE APPLIED AT THE LOCATIONS AND TO THE DIMENSIONS AND SPACING INDICATED ON THE PLANS OR AS SPECIFIED. PAINT SHALL NOT BE APPLIED UNTIL THE INDICATED ALIGNMENT IS LAID OUT AND THE CONDITIONS OF THE EXISTING SURFACE HAVE BEEN APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
15. THE PAINT SHALL BE MIXED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION. THE PAINT SHALL BE THOROUGHLY MIXED AND APPLIED TO THE SURFACE OF THE PAVEMENT WITH THE MARKING MACHINE AT ITS ORIGINAL CONSISTENCY WITHOUT THE ADDITION OF THINNER. THE PAINT SHALL BE APPLIED BY BRUSH, THE SURFACE SHALL RECEIVE TWO (2) COATS. THE FIRST COAT SHALL BE THOROUGHLY DRY BEFORE THE SECOND COAT IS APPLIED.
16. A MINIMUM OF ONE (1) WEEK SHALL ELAPSE BETWEEN APPLICATION OF THE BITUMINOUS SEAL COAT, SLURRY SEAL OR THE PLACEMENT OF THE BITUMINOUS SURFACE COURSE AND THE MARKING OF THE PAVEMENT. THE PAINT SHALL NOT BE APPLIED EXCESSIVELY CURVED OR DISCOLOR. WHEN APPLIED TO BITUMINOUS OR CONCRETE SURFACES, CURING COMPOUND MUST BE REMOVED FOR THE ENTIRE WIDTH OF THE PAINTED STRIPE OR SYMBOL PRIOR TO PAINTING NEW CONCRETE.
17. IN THE APPLICATION OF STRAIGHT STRIPES, ANY DEVIATION IN THE EDGES EXCEEDING 1/2-INCH IN 50-FEET SHALL BE OBLITERATED AND THE MARKING CORRECTED. THE WIDTH OF THE MARKINGS SHALL BE AS DESIGNATED WITHIN A TOLERANCE OF 5 PERCENT (5%). ALL PAINTING SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE BY COMPETENT AND EXPERIENCED EQUIPMENT OPERATORS, LABORERS, AND ARTISANS IN A NEAT AND WORKMANLIKE MANNER.
18. PAINT SHALL BE APPLIED UNIFORMLY BY SUITABLE EQUIPMENT AT A RATE OF 0.0094 GAL./S.F. FOR STENCILS AND 0.00313 GAL./FT. FOR STRIPING. PAINT APPLICATION SHALL PRODUCE AN AVERAGE WET FILM THICKNESS OF

Legal Description

6651 S. Sprinkle Rd., Portage MI, 49002

PP#: 00012-116-A

SECTION 12-3-11 COM S 1/4 POST SEC 12, TH N 1862.70 FT FOR POB, TH CONT N 385 FT, TH E 448.18 FT, TH S 385 FT, TH W 448.18 FT TO POB, SUBJ TO WLY HWY EASEMENTS.

Classification	Work To Be Done	Quote #	Vendor	Quoted Price
Appliances	Refrigerator, Canteen, Ice / Water Machine, Microwaves, Vending Coolers	Break Room Expansion	Break Room Expansion	\$31,000
Engineering Work Stations	Purchase (30) Sets of (1) 12' X 4' Table & (2) Chairs	Online	Uline	\$53,688
Flooring	Grind 40,000 sq. ft. to 800 grit (\$151,200)	051923	Burgess Concrete Construction	\$0
Furniture	Install (3) 10'X30" High Top Tables	QTE0167025-4	West Michigan Office	\$13,196
Furniture	Install (24) Aluminum Chairs	QTE0167025-4	West Michigan Office	Common 25-4
Furniture	Install (4' X 10' Tapered) Conference Room Table	QTE0167016-7	West Michigan Office	Common 16-7
Furniture	Install (8) Chairs	QTE0167016-7	West Michigan Office	Common 16-7
Furniture	Install (4' X 10' Tapered) Conference Room Table	QTE0167016-7	West Michigan Office	\$7,012
Furniture	Install (8) Chairs	QTE0167016-7	West Michigan Office	Common 16-7
Furniture	Install (4' X 6' Tapered) Conference Room Table	QTE0167020-4	West Michigan Office	\$4,702
Furniture	Install (5) Chairs	QTE0167020-4	West Michigan Office	Common 20-4
Furniture	Install (4' X 6' Tapered) Conference Room Table	QTE0167020-4	West Michigan Office	Common 20-4
Furniture	Install (5) Chairs	QTE0167020-4	West Michigan Office	Common 20-4
Furniture	Install (14) Standard Cubicle's (w Chairs)	QTE0167012-6	West Michigan Office	\$60,933
IT	Purchase IT Network Equipment	052223	IT Department	\$53,647
IT	Install (19) Access Points	052223	IT Department	Common
IT	Install (2) PDP's	052223	IT Department	Common
IT	Bore & Install New Fiber Line From TC	060723	ROC Electric	\$60,000
IT	Install IT Communication Rack	060723	ROC Electric	\$3,500
IT	Install (9) Fiber Lines For Access Points	060723	ROC Electric	\$6,500
IT	Install Network Line Cable Tracks	060723	ROC Electric	\$31,500
New Equipment	CNC Machine + Tooling	0000098256	Haas	\$200,000
Pneumatics	Demo Current Air Lines	060623	Vanville	Common
Pneumatics	Install (16) Tool Room Machining Area Drops	060623	Vanville	Common
Pneumatics	Install (24) Tool Room Department Area Drops	060623	Vanville	Common
Pneumatics	Install (30) Engineering Work Area Drops (B41)	060623	Vanville	Common
Pneumatics	Install (56) Machine Run Off Area Drops (B3, B10, B11)	060623	Vanville	Common
Pneumatics	Install Air Line System	060623	Vanville	\$75,832
Storage	Install Storage Racks	20-23-0423Q	National Warehouse Logistics	\$66,495
TV	Purchase TV's	IT	IT	\$26,000
Vending	Install Canteen Vending Machines	TBD	Canteen	TBD
				\$694,005

JOBS AND COMPENSATION SCHEDULE

In connection with the submission of an Industrial Facilities Tax Exemption Certificate application for property located at 6615 South Sprinkle Road, Portage, Michigan, the applicant intends to create 5 full time jobs. The jobs will receive annual compensation of approximately \$77,303. Following the additions, the applicant will have 30 full time positions. The applicant intends to retain 1 part time job.

Summit Polymers, Inc
6615 S Sprinkle Road, Portage, MI Building Expansion
IFT Application - Jobs and Compensation Support
Information as of 9-12-24

This schedule has been created for determining the compensation range for the new employees reported in the Jobs and Compensation Schedule. The Build Area and Tool Shop are the departments where the new jobs will be created.

Curent employment Build Area

3 employees, full-time

Wage range	High	\$ 58,507.00	Low	\$ 37,003.00	Average	\$ 50,113.00
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Current employment Tool Shop

1 employee, full-time, Tool Shop Manager (salary not included in wage range)

15 employees, full-time

Wage range	High	\$ 101,000.00	Low	\$ 46,461.00	Average	\$ 77,303.00
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Current employment Corporate Manufacturing

1 employee, full-time, Corporate Manufacturing Manager (salary not included in wage range)

5 employees, full-time

Wage range	High	\$ 126,000.00	Low	\$ 68,000.00	Average	\$ 96,500.80
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Current employment Intern, Corporate Manufacturing

1 employee, part-time

Wage range	High	\$ 38,480.00	Low	\$ 38,480.00	Average	\$ 38,480.00
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Employee Summary at 6615 S Sprinkle Road

Build Area	3 employees - 3 FT
Tool Shop	16 employees - 16 FT
Corp Mfg	<u>7 employees - 6 FT, 1 PT</u>
TOTAL	26 employees - 25 FT, 1 PT

Com Addition Permit

Property Address 6615 S SPRINKLE RD
Parcel Number 00012-116-A
Tenant Name
Subdivision Name
Property Zoning I-1
Application Valuation 1,479,200.00

Permit No: PCOM23-0092
Project No: J23-1206
Date Applied 05/28/2024
Date Issued 06/18/2024

Owner

SPRINKLE ENGINEERING BUILDING
6715 S SPRINKLE RD
PORTAGE MI 49002

Contractor

JAMES WARE CONSTRUCTION INC
903 NORTH CLAY STREET
STURGIS MI 49091-____
(269) 651-4747

Contractor Requirements

CONTRACTORS LICENSE 03/02/2025
WORKER COMP. CARRIER 1392125 FRANKENMUT
FED I.D. 38-3543740
MESC
OR REASON FOR EXEMPTION

Structure Information

Construction Type 2B - Unprotected Fully Non - C
Occupancy Type
Other Struct Info Full Baths: 0 Half Baths: 0 Bedrooms: 0 Total SF: 20000
Floors: 1 Occupancy Load: 30

Work Description: 200' X 100' COMMERCIAL ADDITION

Invoice Item Description	Amount Total	Amount Paid	Amount Due
Application Fee (non-refundable)	50.00	50.00	0.00
7. Com Permit Fee (1,000,001+)	8,427.28	8,427.28	0.00
Building Plan Review	400.00	400.00	0.00

Required Inspections

02	Public Infrastructure Document	06	Footings and Foundations
07	Slab	08	Framing
09	Insulation	10	Above ceiling
11	Final - Building	12	Final - Engineering
13	Final - Fire	14	Final - Planning/Landscaping
15	Final - Grade/Drainage	16	Final to Close Project
18	Service - Electrical	19	Rough - Electrical
20	Underground - Electrical	21	Final - Electrical
23	Rough - Mechanical	24	Underground Duct - Mechanical
25	Final - Mechanical	27	Underground - Plumbing
28	Rough - Plumbing	29	Sewer Connection
30	Water Connection	31	Backflow Prevention Device
32	Final - Plumbing	34	Final - Sewer Use

Special Notes and Comments

1. NO FORM EXECUTED BY THIS DEPARTMENT IMPLIES OR PROVIDES EXEMPTION FROM ANY CODE OR ORDINANCE REQUIREMENT.

- 2. APPLICANT IS RESPONSIBLE FOR BEING SUFFICIENTLY FAMILIAR WITH, AND HAVE A WORKING KNOWLEDGE OF MATERIALS, CODES AND ORDINANCES OF THE CITY OF PORTAGE TO ENSURE COMPLIANCE WITH SAME.
 - 3. IT IS THE APPLICANTS RESPONSIBILITY TO CALL FOR NECESSARY INSPECTIONS.
 - 4. EXPIRATION: PERMIT SHALL EXPIRE AND BECOME NULL AND VOID IF THE BUILDING OR WORK AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS FROM THE DATE OF ISSUANCE, OR IF THE BUILDING OR WORK AUTHORIZED IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS.
 - 5. WORK TO COMPLY WITH STATE OF MICHIGAN PUBLIC ACT 174 OF 2013 FOR PROTECTION OF UNDERGROUND FACILITIES AND UTILITIES. CONTACT MISS DIG (TOLL FREE) AT 1-800-482-7171 THREE BUSINESS DAYS PRIOR TO UNDERGROUND WORK.
 - 6. FOLLOW-UP INSPECTIONS NECESSITATED BY NONCOMPLIANCE OF CODES MAY BE SUBJECT TO RE-INSPECTION FEES.
 - 7. SECTION 23A OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT NO. 230 OF PUBLIC ACTS OF 1972, BEING SECTION 125.1523A OF THE MICHIGAN COMPLIED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THIS STATE. VIOLATORS OF SECTION 23A ARE SUBJECT TO CIVIL FINES.
 - 7. IT IS THE RESPONSIBILITY OF THE WELL OWNER TO PROPERLY PLUG ALL ABANDONED WELLS ON THEIR PROPERTY. MICHIGAN'S WELL CONSTRUCTION CODE (PART 127, ACT 368, P.A. 1976) REQUIRES THAT ABANDONED WELLS BE PLUGGED AND SPECIFIES PLUGGING METHODS AND MATERIALS. IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT KALAMAZOO COUNTY ENVIRONMENTAL HEALTH AT 269-373-5337.
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ENVIRONMENTAL COMPLIANCE CERTIFICATE

In connection with the submission of an Industrial Facilities Tax Exemption Certificate for the property located at 6615 South Sprinkle Road, Portage, Michigan, the undersigned states and certifies as follows:

Sprinkle Engineering Building, LLC, a Michigan limited liability company, states and certifies that the property located at 6615 South Sprinkle Road, Portage, Michigan is (i) not subject to an enforcement action by the Michigan Department of Environment, Great Lakes and/or Energy of the US Environmental Protection Agency; and (ii) to the knowledge of the undersigned, the property is in compliance with applicable environmental requirements.

In Witness Whereof, the undersigned has executed this Certificate on October 01, 2024.

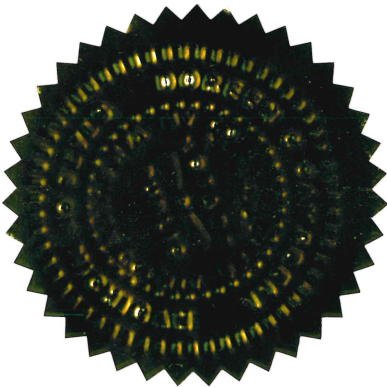
Sprinkle Engineering Building, LLC
a Michigan limited liability company

By: [Signature]

Title: President

State of Michigan, County of Kalamazoo

The foregoing instrument was acknowledged before me this 1st Day of October, 2024, by Christopher Bergman, who is personally known to me or who have produced identification.



doreen c. campbell
Print Name (Notary Public)

doreen c. campbell
Notary Public Signature

6/01/2028
My Commission Expires

DOREEN C CAMPBELL
Notary Public, State of Michigan
County of Van Buren
My Commission Expires 06-01-2028
Acting in the County of Kalamazoo

**AFFIDAVIT WITH REGARD TO FEES
PA 198 of 1974
APPLICATION FOR SUMMIT POLYMERS, INC.**

STATE OF MICHIGAN)
)ss.
COUNTY OF KALAMAZOO)

NOW COME Affiants, Erica Eklov and Andrea Haas, and state as follows:

1. Erica Eklov is the City Clerk and an official for the City of Portage.
2. Andrea Haas is the President of the applicant, Summit Polymers, Inc., who is an applicant for an industrial facilities exemption certificate.

3. Affiants are aware of the following provision, being Section 5(3) of Act No. 198 of the Public Acts of 1974, as amended:

The local government unit may charge the applicant an application fee to process an application for an industrial facilities exemption certificate. The application fee shall not exceed the actual cost incurred by the local government or unit in processing the application or 2% of the total property taxes stated under this Act for the term that the industrial facilities exemption certificate is in effect, whichever is less. A local government unit shall not charge an applicant any other fee under this Act.

4. Affiants state that no payment of any kind in excess of the fee allowed by the above provision of Act 198 as amended has been made or promised in exchange for favorable consideration of an exemption certificate application.

5. Affiants realize that any fee, payment in lieu of taxes, donations, or any other such payments as a condition precedent to approving industrial facilities exemption certificates would be contrary to the legislative intent of Act 198.

6. Each affiant has the authority to make this affidavit on behalf of the entity he or she represents.

CITY OF PORTAGE, a Michigan Municipal
Corporation

Date: _____, 2024

By: _____
ERICA EKLOV
Its: City Clerk

Subscribed and sworn to before me this _____ day of _____, 2024

Notary Public

County, Michigan
My commission expires: _____
Acting in Kalamazoo County, Michigan

SUMMIT POLYMERS, INC.
A Michigan Corporation

Date: December 2nd, 2024

By: Andrea Haas
ANDREA HAAS
Its: President

Subscribed and sworn to before me this 2nd day of December, 2024.

Jessica L. Bailey
Notary Public
Kalamazoo County, Michigan
My commission expires: Aug 15, 2025
Acting in Kalamazoo County, Michigan

APPROVED AS TO FORM:

DATE 11/20/2024

Catherine P. Kaufman
CITY ATTORNEY

Prepared by:
Catherine P. Kaufman (P654120)
Bauckham Sparks
470 W. Centre Ave., Suite A
Portage, MI 49024

TAX ABATEMENT AGREEMENT

This Agreement is made between THE CITY OF PORTAGE, a Michigan Municipal Corporation, of 7900 South Westnedge Avenue, Portage, Michigan 49002, hereinafter referred to as "CITY", and SUMMIT POLYMERS, INC. a Michigan corporation, of 6715 S. Sprinkle Road, Portage, Michigan 49002, hereinafter referred to as "APPLICANT."

THE PARTIES AGREE AS FOLLOWS:

1. The CITY has established Industrial Development District #97 in which the APPLICANT proposes to locate a facility in the City of Portage, County of Kalamazoo, State of Michigan and which is described as follows:

See attached.

2. The APPLICANT has filed an application (which is incorporated herein by reference) with the CITY requesting an industrial facilities exemption certificate ("certificate") for real property and building improvements ("facility") located at 6615 S. Sprinkle Road, Portage, Michigan, within existing Industrial Development District #97.

3. The APPLICANT has represented that the application relates to a new facility within the meaning of Public Act 198 of 1974, MCLA 207.551, et seq.

4. The term of the certificate granted by the CITY shall be six (6) years after completion of the facility (building). This agreement shall remain in force as to each certificate granted for the term of said certificate.

5. The APPLICANT has represented to the CITY that granting of the certificate will enable the facility to be completed, which will have the reasonable likelihood to create employment, retain employment, and prevent a loss of employment within the CITY.

6. The APPLICANT agrees to maintain at least 31 existing employees. Failure to maintain these positions shall be considered a material breach of this Agreement unless APPLICANT can show by clear and convincing evidence that the breach was caused by unfavorable economic business conditions, loss of business, or some other reason beyond the control of APPLICANT.

7. The APPLICANT agrees to maintain the facility for the entire period of the Certificate within the CITY and not to move or relocate the facility, business, or any material portion of either outside the CITY without replacing the relocated portion with real property improvements of equal or greater value, without first obtaining the permission of the CITY. If APPLICANT relocates the facility, business, or any material portion of either without this replacement and without the CITY's consent outside of the CITY during the period in which the industrial facilities exemption certificate is in effect, the APPLICANT is liable to the CITY for an amount equal to the difference between the industrial facilities tax to be paid by the owner or lessee of that relocated facility for the tax years remaining under the industrial facilities exemption certificate that is in effect and the general ad valorem property tax that the Applicant would have paid if the Applicant did not have an industrial facilities exemption certificate in effect for those years. The CITY will not impose this liability without first giving the APPLICANT an opportunity to meet with CITY representatives. The payment provided in this section shall be distributed in the same manner as the industrial facilities tax is distributed.

8. The APPLICANT agrees that during the term of the certificate, all CITY taxes shall be timely paid. Further, APPLICANT agrees that by accepting the benefits of the tax abatement, it waives appeal of personal and/or real property tax assessments concerning property which is the subject of the certificate. Appeal of the personal and/or real property taxes which is the subject of the certificate during the term of the certificate shall result in revocation of the certificate and/or termination of the district and APPLICANT

shall repay to the CITY and all taxing authorities the amount of taxes that were abated by reason of the certificate. This waiver does not apply to the first annual assessment after completion of construction.

9. The APPLICANT further agrees that during the term of the certificate, the APPLICANT shall be in full compliance with all applicable CITY codes.

10. The APPLICANT further agrees that during the term of the certificate, the APPLICANT shall not discriminate against any person on the basis of race, creed, color, sex, religious orientation, or other criteria not reasonably related to the job.

11. The APPLICANT further agrees to submit an annual project performance report to the CITY, addressed to City Council, provided under oath, setting forth the progress in attaining and maintaining the requirements of this Agreement and the provisions of the certificate application. Such reports shall be furnished in duplicate on or before July 1 of each year and shall contain if applicable, at minimum, the following:

- (a) The number of new jobs promised in the certificate and the actual number of new jobs created.
- (b) The number of employees at the time of the application and the current number of employees.
- (c) If projection for creation or retention of jobs was not reached, give explanation.
- (d) The estimated project cost given in the application and the actual project cost.
- (e) If actual project costs differ substantially from projected cost, give explanation.

12. The APPLICANT agrees that if employment has not been retained or reached as represented, the construction and/or expansion project has not been completed or expenditures made as described in the Application, or if APPLICANT fails to fulfill any other provision of this Agreement as well as the provisions of Act 198 of 1974, the CITY shall have the right (after giving APPLICANT an opportunity to meet with CITY representatives) to reduce the term or revoke the certificate and APPLICANT shall repay to the CITY and all taxing authorities the amount of taxes that were abated by reason of the certificate plus all accrued interest, penalties and administrative fees applicable to said tax exemptions in the amount as would be collected if the same were considered delinquent. Any payments due under this paragraph may be collected by either court proceedings or by adding to the next taxes due against the APPLICANT'S property on the next tax roll of the CITY. This section does not apply to the extent that the APPLICANT demonstrates to the CITY by clear and convincing evidence that the failure was caused by unfavorable economic business conditions, loss of business, or some other reason beyond the control of APPLICANT.

13. After the certificate is issued, the CITY agrees to maintain the same in full force and effect during the term of the certificate, subject to any regulations and requirements of state law, and subject to any breach of the provisions of this agreement by APPLICANT.

14. The parties agree that the CITY, in approving the tax abatement, has relied on the actions, representations and promises (including the Application) of the APPLICANT. Default of any of the provisions of this Agreement may be enforced in law or equity. The parties agree that exclusive jurisdiction to resolve any disputes on this contract shall be Kalamazoo County, Michigan.

15. If the various sections and provisions of this Agreement shall be deemed to be declared by any court of competent jurisdiction to be unconstitutional or invalid, the same shall not affect the validity of the Agreement as a whole or any section or provision hereof other than the section or provision so declared to be unconstitutional or invalid.

16. The benefits herein shall accrue to and the obligations hereof shall bind the successors, assignees, and transferees of the APPLICANT.

17. The APPLICANT further agrees that should ownership of the business and/or facility for which the Public Act 198 exemption certificate is issued be changed in the future, thereby requiring a hearing in front of the City of Portage Council under state law, that the transferee or new owner shall abide by all the terms and conditions of this Agreement, and that APPLICANT will communicate all terms and conditions of this Agreement to the transferee or new owner and assist the CITY in obtaining the signature of the authorized agent of the transferee or new owner on this Agreement or an identically worded Agreement.

By signatures of representatives of both the APPLICANT and the CITY below, it is understood that both the APPLICANT's investment in the project and the CITY's investment through the granting of a certificate is to encourage economic growth. It is also acknowledged that certain economic conditions can, at times, prohibit the maintenance of the APPLICANT's targeted status. It is understood that if such conditions exist at the time of the designated APPLICANT reports, the governing body of the CITY will carefully evaluate the APPLICANT's situation, and will inform the APPLICANT if any action is considered in order to give the APPLICANT an opportunity for correction.

Dated: 12/02, 2024

SUMMIT POLYMERS, INC.

By: 

Its

WITNESSED:

STATE OF MICHIGAN)
)SS
COUNTY OF KALAMAZOO)

On this 2nd day of December, 2024 before me personally came the above named Andrea A. Haas on behalf of Summit Polymers, Inc. who acknowledges that he/she has read the foregoing Tax Abatement Agreement by him/her subscribed and knows the contents thereof, and that he/she has the authority of said corporation to execute this Agreement, and acknowledges that he/she executed the same as his/her free act and deed.

, Notary Public
Kalamazoo County, Michigan
My Commission Expires: August 15, 2025
Acting in Kalamazoo County, Michigan

SIGNED, SEALED AND DELIVERED
IN THE PRESENCE OF:

CITY OF PORTAGE, a Michigan Municipal Corporation

By: _____
Patricia M. Randall

Its: Mayor

By: _____
Erica Eklov
Its: Clerk

STATE OF MICHIGAN)
)SS
COUNTY OF KALAMAZOO)

On this _____ day of _____, 2024 before me personally came the above named Patricia M. Randall and Erica Eklov, to me personally known, who being duly sworn, did and each for themselves say that they are respectively the Mayor and Clerk of the municipal corporation named in and who executed the within instrument and that said instrument was signed on behalf of said corporation by authority of its City Council; and said Patricia M. Randall and Erica Eklov acknowledge said instrument to be the free act and deed of said municipal corporation.

_____, Notary Public
Kalamazoo County, Michigan
My Commission Expires: _____

Prepared by:
Catherine P. Kaufman (P65412)
Portage City Attorney
470 W. Centre Ave, Suite A
Portage, Michigan 49024

Approved as to Form:
Date: 11-20-2024
By: Catherine Kaufman
City Attorney

CERTIFICATE

I hereby certify that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the City Council of the City of Portage, Michigan, Kalamazoo County, held on the 5th day of March, 2024, the original of which is in the official proceedings of the City Council.

Erica Eklov
Erica Eklov, City Clerk

Prepared by:
Catherine Kaufman (P65412)
Portage City Attorney
Bauckham Sparks
470 W. Centre Ave, Suite A
Portage, MI 49024

Approved as to Form:

Date: 2-26-2024

By: Catherine Kaufman
City Attorney

**CITY OF PORTAGE, MICHIGAN
RESOLUTION NO. 2**

**DESIGNATING PORTAGE INDUSTRIAL DEVELOPMENT
DISTRICTS NO. 95, 96, 97, 98, 99 and 100**

Minutes of a regular meeting of the City Council for the City of Portage, Michigan held on April 9, 2024, at 6:00 p.m. local time at City Hall in the City of Portage, Michigan.

PRESENT: Burns, Ledbetter, Mayor Pro Tem Pearson, Miller, Young

ABSENT: Mayor Randall, Councilmember Urban

The following resolution was offered by:

COUNCILMEMBER: Burns, and supported by:

COUNCILMEMBER: Young.

WHEREAS, the City Council has met in public hearing as heretofore resolved and noticed for the purpose of determining whether certain described areas and/or properties, as referenced on attached Exhibit A, may be established as Industrial Development Districts 95, 96, 97, 98, 99, and 100, pursuant to 1974 PA 198, MCLA 207.551, et seq.; and

WHEREAS, such location meets all of the prerequisites of the cited Act;

NOW THEREFORE, BE IT RESOLVED that the following described areas and/or properties, as referenced on attached Exhibit A be designated as Industrial Development Districts 95, 96, 97, 98, 99, and 100:

Please see attached Exhibit "A"

ADOPTED: AYES: Councilmember Burns, Ledbetter, Mayor Pro Tem Pearson, Miller, Young

NAYS: Councilmember N/A

ABSENT: Councilmember Mayor Randall, Urban

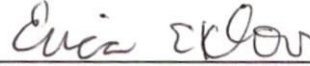
All resolutions or parts of resolutions are, to the extent of any conflict with this resolution, rescinded.

RESOLUTION DECLARED ADOPTED:

Erica Eklov
Erica Eklov, City Clerk

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of Resolution #2 adopted at a regular meeting of the City Council of the City of Portage, Kalamazoo County, Michigan held on April 9, 2024, the original of which is in the official proceedings of the City Council.



Erica Eklov, City Clerk

PREPARED BY:

Catherine Kaufman (P65412)
Portage City Attorney
Bauckham Sparks
470 W. Centre Ave, Suite A
Portage, Michigan 49024

Previously Approved as to Form:
by Catherine Kaufman,
City of Portage Attorney,
on January 3, 2024