## CHARTER TOWNSHIP OF FLUSHING

6524 N. Seymour Road, Flushing, MI 48433 P (810) 659-0800 F (810) 659-4212 www.flushingtownship.com

# PLANNING COMMISSION AGENDA DATE: SEPTEMBER 11, 2023 TIME: 7:00 P.M.

## MEMBERS OF PLANNING COMMISSION

Chair - Vicki Bachakes
Vice Chair - William Mills
Secretary - Amy Bolin
Board of Trustees Representative - Terry A. Peck

Timothy Lloyd Michael Moon

Craig Davis

Makenzie Dearlove, Recording Secretary

## I. CALL THE MEETING TO ORDER

ROLL CALL
PLEDGE OF ALLEGIANCE

## II. APPROVAL OF AGENDA

## III. APPROVAL OF PREVIOUS MINUTES

July 18, 2023 Meeting

# IV. PUBLIC COMMENTS FOR AGENDA ITEMS ONLY

Each speaker limited to three minutes

## V. UNFINISHED BUSINESS

None

## VI. NEW BUSINESS

- Motion on the Site Plan Review for a Family Dollar / Dollar Tree store to be located at 7029 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-12-200-014, pursuant to Article XVIII Special Use Permits
- Public Hearing and motion on the Special Use Permit for a Family Dollar / Dollar
  Tree store to be located at 7029 Mt. Morris Road, Flushing, MI 48433, Parcel
  No. 08-12-200-014, pursuant to Article XVIII Special Use Permits

## VII. ZONING ADMINISTRATOR COMMENTS

VIII. PUBLIC COMMENTS
Each speaker limited to three minutes

IX. COMMISSION COMMENTS

X. NEXT REGULAR SCHEDULED MEETING
TUESDAY, OCTOBER 10, 2023 AT 7:00 P.M.

XI. ADJOURNMENT

CHRISTOPHER J. CZYZIO, Zoning Administrator

# **CHARTER TOWNSHIP OF FLUSHING**

6524 N. SEYMOUR ROAD, FLUSHING, MI 48433 P (810) 659-0800 F (810) 659-4212 www.flushingtownship.com

## PLANNING COMMISSION MINUTES

DATE: JULY 18, 2023

TIME: 7:00 P.M.

## MEMBERS OF PLANNING COMMISSION

Chair - Vicki Bachakes

Vice Chair - William Mills

Secretary - Amy Bolin

Craig Davis

Timothy Lloyd

Michael Moon

Board of Trustees Representative - Terry A. Peck

Makenzie Dearlove, Recording Secretary

PRESENT: Moon, Bolin, Mills, Bachakes, Lloyd, and Peck

**ABSENT:** Davis

OTHERS PRESENT: Sixteen (16) other individuals were present.

- I. MEETING CALLED TO ORDER at 7:00 P.M. by Planning Commission Chairperson Bachakes with Roll Call and Pledge to the American Flag.
- II. APPROVAL OF AGENDA:

TREASURER PECK MOVED, supported by Commissioner Bolin to approve the agenda.

THE MOTION CARRIED.

## III. APPROVAL OF PREVIOUS MINUTES:

**TREASURER PECK MOVED,** supported by Commissioner Mills to approve the minutes of the June 12, 2023 meeting.

**ACTION ON THE MOTION** 

**ROLL CALL VOTE:** 

AYES: Bolin, Mills, Bachakes, Lloyd, Peck, and Moon

NAYS: None ABSENT: Davis

THE MOTION CARRIED.

## IV. PUBLIC COMMENTS

## **OPEN FOR PUBLIC COMMENTS 7:01 P.M.**

No comments were made.

## **CLOSED FOR PUBLIC COMMENTS 7:02 P.M.**

## V. UNFINISHED BUSINESS

None

## VI. NEW BUSINESS

1. Motion on the Site Plan Review for a swimming pool placed in the front yard of 5211 Deland Road, Flushing, MI 48433, Parcel No. 08-23-300-021, pursuant to Article XVIII Special Use Permits

Mr. Huffman, the applicant, was present and stated that the reason for placement of the pool on the front yard was to avoid cutting down heavy brush on several other parts of his property and the pool would remain unseen by neighbors and from the road with the vegetation surrounding the front yard. Treasurer Peck stated that he supported this plan based on the cover of the view of the pool from the road and the two letters of support from the neighbors.

TREASURER PECK MOVED, supported by Commissioner Mills to approve the Site Plan Review for a swimming pool placed in the front yard of 5211 Deland Road, Flushing, MI 48433, Parcel No. 08-23-300-021, pursuant to Article XVIII Special Use Permits.

## **ACTION ON THE MOTION**

**ROLL CALL VOTE:** 

AYES: Mills, Bachakes, Lloyd, Peck, Moon, and Bolin

NAYS: None ABSENT: Davis

THE MOTION CARRIED.

2. Public Hearing and motion on the Special Use Permit for a swimming pool placed in the front yard of 5211 Deland Road, Flushing, MI 48433, Parcel No. 08-23-300-021, pursuant to Article XVIII Special Use Permits.

## Public Hearing opened at 7:05 P.M.

No comments were made.

## Public Hearing closed at 7:06 P.M.

After brief discussion the following motion was made.

**TREASURER PECK MOVED**, supported by Commissioner Mills to approve the Special Use Permit for a swimming pool placed in the front yard of 5211 Deland Road, Flushing, MI 48433, Parcel No. 08-23-300-021, pursuant to Article XVIII Special Use Permits.

ACTION ON THE MOTION ROLL CALL VOTE:

AYES: Peck, Moon, Bolin, Mills, Bachakes, and Lloyd

NAYS: None ABSENT: Davis

THE MOTION CARRIED.

3. Motion on the Site Plan Review for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits

TREASURER PECK MOVED, supported by Commissioner Bolin to accept the Site Plan Review for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits for discussion.

Mr. Hansen, the applicant, was present. Chairperson Bachakes invited Mr. Ball, from Rowe Professional Services, to speak on the review letter of the Site Plan. Mr. Ball had originally written a Site Plan review letter for the Planning Commission on June 21, 2023 and had updated the letter on July 13, 2023 after receiving updated Site Plans. The letter contained information on the outstanding issues with the Site Plan and Mr. Ball shared what he had written with the Planning Commission.

Chairperson Bachakes asked Mr. Hansen if he was currently working on obtaining permits and approval for different project aspects through the County and State currently, and he confirmed he is. Chairperson Bachakes also asked questions in relation to the traffic flow through and within the parking lot proposed and Mr. Hansen's representative, Mr. Kim Carlson, spoke about possible changes they may be required to make to meet ordinance requirements.

Commissioner Mills inquired about when Mr. Hansen had hoped to begin construction and have the project completed. Mr. Hansen stated that he hopes to begin construction in the spring and be completed in the fall, if all requirements can be met. Commissioner Lloyd asked Mr. Hansen if he has other businesses similar to this and Mr. Hansen shared he has eight locations similar to this proposed store.

Commissioner Bolin asked Mr. Hansen about the filtration systems for the proposed store. Treasurer Peck expressed that a gas station is needed in the township and there's a great amount of interest in placing one in this part of town in particular. Treasurer Peck also stated he wants to address all avenues where a problem could arise to ensure this process is done correctly. Chairperson Bachakes shared that due to the outstanding issues with the Site Plan before the Commission she would like to see a revised set of plans before approving the Site Plan.

The Commissioners had a lengthy discussion on whether to postpone approval on the Site Plan until the outstanding issues have been addressed or to approve the Site Plans with the condition that all outstanding issues must be addressed. After this discussion Treasurer peck withdrew his motion, supported by Commissioner Mills. The following motion was then made.

**TREASURER PECK MOVED**, supported by Commissioner Bolin to postpone the Site Plan Review for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits until next month for the applicant to address the outstanding issues as pointed out by Rowe Professional Services.

ACTION ON THE MOTION ROLL CALL VOTE:

**AYES:** Bachakes, Peck, and Bolin **NAYS:** Lloyd, Moon, and Mills

**ABSENT:** Davis

THE MOTION FAILED.

After further discussion the following motion was made.

COMMISSIONER LLOYD MOVED, supported by Commissioner Moon to approve the Site Plan Review for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits with the unmet conditions being met that were pointed out with red text by Rowe Professional Services in the Site Plan Review Letter. (Letter is attached to the minutes.)

## **ACTION ON THE MOTION**

**ROLL CALL VOTE:** 

AYES: Peck, Moon, Mills, Bachakes, and Lloyd

NAYS: Bolin ABSENT: Davis

THE MOTION CARRIED.

4. Public Hearing and motion on the Special Use Permit for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits

## Public Hearing opened at 8:10 P.M.

No comments were made.

## Public Hearing closed at 8:11 P.M.

After brief discussion the following motion was made.

TREASURER PECK MOVED, supported by Commissioner Mills to approve the Special Use Permit for placement of a gas station convenience store located at 8464 Mt. Morris Road, Flushing, MI 48433, Parcel No. 08-02-300-021 and 08-02-300-022, pursuant to Article XVIII Special Use Permits.

**ACTION ON THE MOTION** 

**ROLL CALL VOTE:** 

AYES: Lloyd, Peck, Moon, Bolin, Mills, and Bachakes

NAYS: None ABSENT: Davis

THE MOTION CARRIED.

## VII. ZONING ADMINISTRATOR COMMENTS

Zoning Administrator Chris Czyzio shared with the board that the next steps for the proposed gas station convenience store at 8464 Mt. Morris Road would be for him to review the changes to the Site Plan as they are made and report the changes to the Planning Commission. Mr. Czyzio also stated that some of the changes to the Site Plan may require the developer to come before the Planning Commission again but some of the changes would only need Zoning Administrator approval. Mr. Czyzio shared that Bear's Party Store is looking to remodel. Current plans would require a variance so they may be on a meeting agenda in the future. Mr. Czyzio also shared that he has not received any new information from the developers of the Flushing Bibi Villas this past month.

## VIII. PUBLIC COMMENTS

**OPEN FOR COMMENTS: 8:15 P.M.** 

Two comments were made in regards to the recent Special Use Permit approval for Veteran's Mechanical.

**CLOSED FOR COMMENTS: 8:19 P.M.** 

## IX. COMMISSION COMMENTS

Treasurer Peck commented that he was sorry to hear about the difficulty Veteran's Mechanical owners are having in moving forward with the purchase of 8034 N. McKinley Road. Zoning Administrator Chris Czyzio was asked to share recent information he had been given by Genesee County Road Commission in regards to the driveway at 8034 N. McKinley Road.

## X. NEXT REGULAR SCHEDULED MEETING

MONDAY, AUGUST 14, 2023 AT 7:00 P.M.

## XI. ADJOURNMENT

With an fouthout bookings the anation	-P1-4-0-21 D.M
With no further business, the meeting a	idjourned at 8:31 P.M.
VICKI BACHAKES, Chairperson	
AMY BOLIN, Secretary	
Date of Approval	
Makenzie Dearlove, Recording Secreta	ry

# Wolgast corporation

4835 Towne Center Road, Sulte 203 SAGINAW, Michigan 48604

	IAW, Michigai 9120 FAX 98		1		DATE: ATTENTION:	7/21/2023 JOB NO.:	D23506
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1	7/21/2023		Commercial S	Sta Plan Ch	ack list	***************************************	
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LETTER OF TRANSMITTAL

# **SPECIAL USE PERMIT REQUEST FORM**

Special Use Permit Request Cas No	HEUEIVLU
Variance Fee:	
Date Paid:	
Date Notice was Published:	— CHARTER TOWNSHIP OF FLUSHING
Date of Public Hearing:	
Affidavit Attached:	
FLUSHING TOWNSHIP PLANNING COMMISSION	I SPECIAL USE PERMIT REQUEST
Required information from owner or person having inte	rest in requesting Planning Commission
(PC) review and opinion.	
1. Name of applicant/owner requesting PC review	and opinion
A. Applicant	
Name: Wolast Acquisition Corporation	
Address: _	
Phone:	
B. Owner of property (if different than above)	
Name:	
Address:	
Phone:	
2. Location of Property	
Street number and name: <u>7029 Mt. Morris R</u> e	
Property tax identification number: <u>08-12-200</u>	<del></del>
Legal description of property involved: A parcel of thence South 88 degrees 55 minutes 47 seconds West, 449	i land beginning at the Northeast corner of the Section, .88 feet; thence South 00 degrees 00 minutes 50 seconds Wes
249.94 feet and South 00 degrees 04 minutes 15 seconds V	Vest, 315.21 feet; thence North 89 degrees 22 minutes 41
seconds East, 200 feet; thence North 118.48 feet; thence Ea being in Section 12, Town 8 North, Range S East	st 250.04 feet; thence North 450 feet to the Point of Beginning
List deed restrictions and easements:	
Present zoning of property: <u>C-2 Commercial</u>	
reactive counting or brobereds of the continuor organ	

- 3. With all requests, a site plan must be submitted (se attached stie plan form)
- 4. Answer the following questions of the affidavit:

a. What is the purpose of the	he request for a Special Use Permit?
Required as part of C-2	2 zoning.
	-
has fully read and completed the ab	<b>CERTIFICATION</b> : It is hereby acknowledged that the applicant(s) ove application. It is also understood that in case of cancellation or tative to appear at the hearing, I understand that all fees will be
Signature of Applicant	Signature of Owner (If different than the applicant)
PLANNING COMMISSION:	
The Planning Commission (P	PC) having reviewed the submitted data do hereby:
( ) APPROVE ( ) DISAPPR	ROVE the application for the following reasons:
If approved, are there conditions? _	
Date	Chairperson

Revised: 03/27/2023
Master Copy: Server F/OFFICE FORMS/MASTERS/Special Use Permit Request PC

This form and any required site plan MUST be completed in full and turned into Flushing Township 30 DAYS BEFORE THE SCHEDULED Planning Commission meeting date to insure all Commission members have the necessary information:

Date of Next Meeting:	Fee Due:	
	Date Paid:	
Paperwork Due By:	Amount Paid:	
	Receipt #:	
		RECEIVED
COMMERCIAL SITE PLAN RE	EVIEW CHECKLIST	JUL 24 2023
		CHARTER TOWNSHIP OF FLUSHING
Name of Applicant: Wolgast Acquisition Corporation	1	
Mailing Address:	304	
Property Address: 7029 Mt. Morris Rd. Flushing, M	l 48433	·
Parcel Number: <u>08-12-200-014</u>		
Proposed Use: C-2 Commercial		
Existing Zoning: C-2 Commercial		

## Section 36-1902 Site Plan Review Requirements:

Before any Permit shall be issued, a site plan drawn to a scale of one (1) inch equals twenty (20) feet, and at least two (2) copies of this site plan shall be submitted to the township clerk. Such site plan drawing shall contain ALL of the following information:

## PLEASE PLACE AN ANSWER IN EVERY BOX UNDER PROPOSED.

ORDINANCE REQUIREMENTS	COMMISSIONERS REVIEW	APPLICANT'S PROPOSAL
(a) Statistical data including: number of dwelling units, size of dwelling units (e.g., one-bedroom, two-bedrooms, and three- bedrooms), if any, and total gross acreage involved. In all other cases, the location, type, horsepower, fuel, dimensions, and other data of all machinery to be used on the proposed site.		Yes
(b) The location of principal and accessory buildings on the lot and the relationship of each structure to the other.		Yes
(c) Vehicular traffic and pedestrian circulation features within and without the site.		No
(d) The location and dimensions of all off-street parking areas including maneuvering lanes, service lanes, off-street loading spaces and other service areas within the development.		Yes
(e) The location, dimensions and proposed use of all on-site recreation areas, if any.		NA
(f) The location of all proposed landscaping, fences or walls.		Yes
(g) The height and dimensions of all structures.		Yes
(h) Front, rear and side elevations of any typical structure proposed for development.		Yes

(i) The location and capacity of private or public water and sanitary services and solid waste disposal facilities servicing the site.	Yes
(j) The locations, dimensions and lighting of all signs.	Yes
(k) The location, intensity and orientation of all lighting.	Yes
(I) A location map indicating the relationship of the site to the surrounding land use for an area of not less than one (1) square mile.	Yes
(m) A physiographic map showing the natural topography, the soil types, and suitability for intended use, natural features such as wood lots, lakes, drains, streams, and ditches, and surface coverage data (such as paved areas and structures) related to storm water runoff characteristics.	Yes
(n) The site plan shall be sealed by a professional engineer, architect, landscape architect or community planner.	Yes
(o) Location and size of interior and exterior areas and structures to be used for storage use, loading/unloading, recycling, or disposal of hazardous substances.	Yes
(p) Location of all underground and above ground storage tanks for such uses as fuel storage, waste oil holding tanks, chemical storage, hazardous waste storage, collection of contaminated storm water or wash water, and all similar uses.	NA

(q Location of exterior drains, dry wells, catch basins, retention/detention areas, sumps and other facilities designed to collect, store to transport storm water or waste water. The point of discharge for all drains and pipes shall be specified on the site plan.	Yes
(r) Delineation of areas on the site which are known or suspected to be contaminated, together with a report on the status of site cleanup.	NA
(s) Submission of the "Hazardous Substances Reporting Form for Site Plan Review."	NA
(t) Submission of the "State/County Environmental Permits Checklist."	Yes
(u) 100 year floodplain.	Yes
(v) Topographic lines at 1' intervals.	Yes
(w) Proposed and existing utilities including water, sewer, storm water and lighting.	Yes
(x) Driveway location.	Yes
(y) Current zoning of parcel and if the proposed use is not permitted in the district the parcel is zoned, an indication as to the proposed zoning. (Amended by adoption July 25, 2002).	Yes
(z) Statement on the plan as to whether wetlands exist on the site. (Added by adoption July 25, 2002).	Yes
(aa) Easements impacting property.	NA
(bb) Underground utilities present on property.	Yes

<u>NOTE:</u> Review the Flushing Township Code of Ordinances Section 36 Article 19: Site Plan for additional information.

ADDITIONAL COMMENTS:	
A parking variance was granted at the ZBA meeting on	7/17/23.
Signature of Approving Planning Commission Chair	Date Approved

Revised: 04/04/2023

Master Copy: Server F/OFFICE FORMS/MASTERS/Commercial Site Plan Checklist PC

SECTION 12, TOWN 8 NORTH, RANGE 5 EAST FLUSHING TOWNSHIP, GENESEE COUNTY, MICHIGAN

## **APPLICANT**

WOLGAST CORPORATION 4835 TOWNE CENTER ROAD **SUITE 203** SAGINAW, MI 48604

16	'ANDARD LEGEND	
DESCRIPTION	PROPOSED	EXISTING
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ELECTRIC LINE	E	ξ
TELEPHONE LINE	T	1
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FENCE		
SILT FENCE		
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SOIL BORING LOCATION		ф

## PLAN DISTRIBUTION

FLUSHING TOWNSHIP

06/16/23 09/05/23

SITE PLAN APPROVAL SITE PLAN APPROVAL

GENESEE COUNTY-SWM

06/16/23

STORM DRAINAGE APPROVAL

**GENESEE COUNTY - WWS** 

06/16/23

06/16/23

WATER & SEWER SITE PLAN

GENESEE COUNTY ROAD COMMISSION 06/16/23 RIGHT-OF-WAY

SOIL EROSION CONTROL

NO NPDES N.O.C. PERMIT NOT REQUIRED

AFTER RECEIPT OF SESC PERMIT FROM GCDC

DISTURBED AREA =2.3± ACRES

SITE PLANS



## CIVIL ENGINEER

D&M SITE, INC **401 BALSAM STREET** P.O. BOX 159 CARROLLTON, MI 48724

LOCATION MAP

## **DRAWING INDEX**

C1.0	COVER SHEET
C1.1	GCDC NOTES

C2.0 TOPOGRAPHIC SURVEY C3.0

SITE PLAN **GRADING PLAN** C4.0

**EROSION CONTROL PLAN** C4.1 C4.2 **EROSION CONTROL DETAILS** 

C5.0 UTILITY PLAN

C5.1 STORM MANAGEMENT CALCULATIONS

SITE DETAILS C6.0

## GENESEE COUNTY DRAIN COMMISSION - WWS

STANDARD CONSTRUCTION NOTES PRESSURE PIPE CONSTRUCTION SANITARY SEWER CONSTRUCTION

**BUILDING PLANS (BY WOLGAST) EXTERIOR ELEVATIONS** 

### UTILITY NOTE

### FLOODPLAIN INFORMATION

TELEPHONE GAS AND ELECTRIC

SM. #1 - ARROW ON HYD AT THE NW COR OF PROP. OH S.

NAVD 88 ELEV. 715.58 NAVO 88 ELEY, 715.0

### GCDC-WWS UTILITY STATEMENT

EXISTING UTILITIES WERE NOT EXPOSED FOR VERIFICATION OF LOCATION AND ELEVATION DURING INITIAL FIELD INVESTIGATION. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL **EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT** ALL FINDINGS TO THE ENGINEER.

## **GCDC-WWS NOTE**

THIS PROJECT HAS BEEN DESIGNED IMPLEMENTING THE LATEST GCDC-WWS DESIGN SPECIFICATIONS, CAREFULLY REVIEW THE NOTES, DETAILS, AND DESIGN PRIOR TO SUBMITTING A BID. FULL COMPLIANCE WITH THE NEW STANDARDS WILL BE REQUIRED

## GCDC-WWS UTILITY LOCATION NOTE

THE LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE BASED ON RECORDS PROVIDED BY THE UTILITY OWNERS AND VISIBLE EVIDENCE OBTAINED IN THE FIELD, EXISTING UTILITIES WERE NOT EXPOSED FOR VERIFICATION OF LOCATION AND ELEVATIONS. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED TO THE COMPLETENESS OR ACCURACY THEREOF.

## **EASEMENT STATEMENT**

ALL PUBLIC SANITARY SEWERS AND PUBLIC WATERMAINS SHALL HAVE AN EASEMENT GRANTED TO GCDC-WWS AND/OR LOCAL MUNICIPALITY FOR MAINTENANCE, REPAIR AND/OR REPLACEMENT, FOR CONDOMINIUMS, THE EASEMENTS SHALL BE RECORDED ON THE MASTER DEED DOCUMENT AND FOR A SUBDIVISION, THE EASEMENT SHALL BE NOTED ON THE FINAL RECORDED PLAT, ALL OTHERS SHALL BE RECORDED ON THE NEW STANDARD GCDC-WWS EASEMENT FORM.

Know what's below

Call before you dig.

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TOWNE CENTER ROAD, STE SAGINAW, MOCHIGAN 48604 WOLGAST CORPORATION

ROAD

ELMS

NORTH

SITE

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2023,141

GCDC SANITARY AND WATER NOTES
A SMATARY SEVER SANDLE TAPS SHALL BE MADE BY GCDC-WINS PERSONSEL. THE
COYELOPER SHALL DABLY THE REQUIRED MUSCIPALITY SANITARY SEVER PERMIT OR
THE'S CONSTRUCTION PERMIT AND PAY GCDC-WINS THE REQUIRED FEE FOR A SADDLE

- B. THE CONTRACTOR SHALL VERBY THE SANTARY SEWER DEPTHAND BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF SEWER TOWARD THE MAINLINE SEWER IN STRICT ACCORDANCE WITH GODCHWAS STANDARD DETAILS AND SPECIFICATIONS.
- C. SANITARY SERVICE LEADS SHALL BE ENCASED IN 64A CRUSHED LIVESTONE (A1) XI
- D. WATER SERVICE CONNECTION AND CURB BOX SHALL BE INSTALLED IN ACCORDANCE
- E. ALL WATER SERVICE LEADS SHALL BE 'X' COPPER. THE MINIMUM SIZE SHALL BE X'.
- F. ALL WATERWAIN PRESSURE TAPS AND CUT IN VALVES 4" AND LARGER SHALL BE CONSTRUCTED WITH CAST IRON TAPPUNG SLEEVES WITH A MANHOLE STRUCTURE PER GCOC-YW/S STANDARD DETAILS AND SPECIFICATIONS.
- G. SAND FILL UNDER ANY FLOOR SLAB, WALKS, PAYED AREAS, ETC. SHALL BE MISMON WOOT CLASS II SAND BACKFILL (AS), FILL SAND SHALL NOT HAVE A MOISTURE CON GREATER THAN 15%. THE SAND SHALL BE COMPACTED TO 55% OF MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR.
- H. ALL EXISTING UTILITIES SERVING THE PROPERTY SHALL BE PROPERLY TERMINATED IN COMPLIANCE WITH LOCAL AND/OR COUNTY REGULATIONS. REMOVE ALL TREES. INCLUDING ROOT STRUCTURES, EXCEPT THOSE SPECIFICALLY NOTED TO REMAIN AND THOSE ON PROPERTY LINES. DO NOT CLEAR SITE PRIOR TO COORDINATING WITH OWNER AND THE LANDSCAPING PLAN TO DETERMINE ALL TREES TO REMAIN
- I. FOR ANY DEMOLITION WORK, PLEASE SEE DEMOLITION NOTES ATTACHED HERVITI-
- J. VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO BEGINS INS
- K. COMPACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSHWITH GRADE (CLEAN OUT, VALVE BOXES, MANHOLES, CATCH BASINS, INJETS, ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES WHETHER SPECIFICALLY NOTED ON PLANS OR NOT
- L. THE WATER SUPPLY FOR ALL COMMERCIAL AND HEMSTRIAL BUILDINGS SHALL BE EQUIPPED WITH A BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH BUILDING CODES, AMAPPROVAL OF METHODS NUST BE ACCURRED FROM GCOCHYMS.
- ML ALL ON-SITE WATER SERVICE SHALL WEET THE REQUIREMENTS OF GOOD WAYS STANDARD DETAILS AND SPECIFICATIONS.
- N. THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-432-11/1) THREE (3) WORKING DAYS PRIOR TO STARTING ANY EXCANATION WITH POWER EQUIPMENT,
- O, THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, AND STATE REGULATIONS FOR ALL WORK THAT TAXES PLACE ON THE SITE
- P. THE CONTRACTOR DEVELOPER SHALL PAY FOR AND OBTAIN ALL PERMITS REQUIRED BY FEDERAL, STATE, LOCAL, OR PRIVATE AGENCIES AND PAY ALL CHARGES FOR
- O. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION LINES AND GRADE FOR THEIR
- R. THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL AND SHALL ALLOW NO CHASITE BURKING WITHOUT PROPER PERMITS.
- S. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES AND UPON COMPLETION OF THE PROJECT, LEAVE THE SITE IN AN ACCEPTABLE CONSTROMAS
- T, COMMERCIAL BUILDINGS SHALL USE A 6" SANITARY RISER FROM THE WAIN TO THE STRUCTURE. THE SERVICE RISER SHALL CONNECT TO THE MAINLING AND NOT AT A
- U. FOR COMMERCIAL ESTABLISHMENTS THAT GENERATE GRIT OR GREASE, AN EXTERNAL GREASE TRAP SHALL BE PROVIDED. SHOW THE DETAIL ON THE PLANS WITH APPROPRIATE NOTES. THE DOMESTIC SERVINGE SHALL BE DESIGNED TO BYPASS THE
- Y. THE MINIMUM SLOPE FOR A COMMERCIAL LEAD IS 1' OF FALL PER 100 FEET OF PIPE, SHOW THE INVERTIAT THE STRUCTURE AND THE SLOPE TO THE PROPERTY LIKE,
- W, ALL SANTARY SEWER RISERS SHALL BE SOR-26 PVC
- X. EACH PARCEL OF LAND SHALL HAVE AND INDIVIDUAL RISER

GCDC 10 STANDARD SITE PLAN NOTES

A. EXTERSION OF PUBLIC UTILITIES: ALL PUBLIC SANTARY SEWER ANXOR WATERWAIN SHALL BE EXTENDED TO THE FURTHEST LIMITS OF THE PROPERTY, DICLUMNO CORNER LOTS, WITH THE PIPE SIZE AND MATERIAL APPROVED BY GOCO-WINS. THIS IS INCCESSARY FOR FLATAPPROVAL. FOR YNATER SERVICE OF 1'
OR LESS OR A BULLDING OWN ORNER LOT, THE REQUIREMENTS TO EXTEND THE
PREDIC VARTERIANT RECORD RATHER SERVICE OF THE
PREDIC VARTERIANT RECORD RATHER SERVICE BOTH PROPERTY LINES WILL
BE REVIEWED. FINAL DETERMINATION SHALL BE WIDE BY OCCO-WINS.

- B. WATERWAIN LOOPING: ALL PUBLIC WATERWAINS SHALL BE LOOPED WHENEVER
- O, INDUSTRIAL PRETREATMENT PROGRAM (PPT): THIS PERMIT IS REQUIRED FOR ALL COMMERCIAL INON-RESIDELITAR) AND INDUSTRIAL DISCHARGES. THE CAMER RAGNONE TREATMENT PLANT AT (810) 232-7662.
- D. SOIL EROSION: THE DEVELOPER SHALL SUBJET A DETAILED SOIL EROSION AND D. SOIL BROSHON: THE EVENE OPEN SHALL SUBMIT A DETAILED SOIL EROSION AND SEGMENTATION CONTINUE. AND AND SHARM NACE AS FRATE 13, SOIL EROSION AND SEQUENTIATION CONTINOL PERSON. THIS DROUDES THE PAYMENT OF FEES NAOT THE PROFUNS OF THE SEASANT BONDS. NO EARTH CHANGES OR EXCANATION SHALL BE STARTED PROFUT TO THE ISSUANCE OF THIS PERSON. THE DEVELOPER SHALL PROFUT CALL EXISTING AND PROPOSEDS FORM SECRETARILITIES ON AND ADJACENT TO THE SITE DIREGIS EXCANATION AND CONSTRUCTION. ALL SEDMENT SHALL PROFUT CALL PLANT ON A DIRECT TO THE SITE DIREGIS EXCANATION AND CONSTRUCTION. ALL SEDMENT SHALL BE COMPANED ON SITE, ANY SILT IN COUNTY DRAINS, STORM SEWER. CULVERTS, ETC. AS A RESULT OF THIS PROJECT, SHALL BE REMOVED BY THE DEVELOPER AT THE COST OF THE DEVELOPER
- E. FLOOD PLAIN OR NIETLALD CONSTRUCTION. THE DEVELOPER SHALL APPLY TO THE MICHIGAN DEPARTMENT OF BUNDRONAMENTAL QUALITY FOR A FERMIT FOR THE ALTERATION LANDOR OCCURATION OF A ROOD PLAIN OR PLOODWAY, AS REQUIRED 5 SITE PLAIN STANDARDS UNDER PA 451. EVIDENCE OF THIS PERMIT MAY BE
- F. NPDES STORM WATER DISCHARGE PERUTE THE DANER OF THE PROPERTY SHALL OBTAIN A NPICES STORM WATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES FROM MOSO AS REQUIRED LEIDER PUBLIC ACT 451. THE NOTICE OF ACTIVITIES FROM MODERA AS REQUIRED LIGABLE PUBLIC ADT 1811. THE MOTICE OF COVERAGE FORMS HALL BE SUMPLITED THROUGH CODCHAYS WITH THE SOLL EROSION CONTROL PERMIT APPLICATION, ALL MODER FEES SHALL ACCOMPANY TO MOTICE OF COVERAGE, EVIDENCE OF THIS PERMIT MAY BE REQUIRED PRIOR TO PUNITAPPROYAL BY GEOCHAYS.
- G. GENESEE COUNTY PERMIT TO CONSTRUCT A PUBLIC UTILITY: AFTER THE APPROVAL OF THIS PRELIMINARY PLAT OR SITE PLAN. THE DEVELOPER SHALL SUBMIT A DETAILED PLAN FOR CONSTRUCTION OF ALL PURKIC SANITARY SPAFE STERVARY THE PLANS 1916 THAVE GODO, WAS APPROVAL A S.PERUT
- H. GENESEE COUNTY ROAD COMMISSION PERMIT: THE DEVELOPER SHALL OBTAIN A PERMIT FROM THE GENESEE COUNTY ROAD COMMISSION TO PERFORMINORK WITHIN THE GENESEE COUNTY ROAD COMMISSION RIGHT-OF-WAY, ALL FEES FOR THE PERVIT, BONDS AND INSURANCE ARE THE RESPONSABILITY OF THE
- L MUNCIPALITY SANTARY SEVIER AND WATER PERMIT: PRIOR TO THE ISSUMDE OF A BULDER'S PERMIT OF THE LOCAL MUNCIPALITY, THE DEVELOPER SHALL BE REQUIRED TO DETRIAL SANTARY SEVER ANDOL WATER TAPAN PERMIT FROM THE LOCAL MURSCIPALITY, IF AUTHORIZED, OR GCDC-YMYS,
- J. STATE CONSTRUCTION PERMITS: THE SANITARY SEYIER AND WATERMAIN CONSTRUCTION PERMITS FROM THE MICHGAN DEPARTMENT OF ENVIRONMENTAL QUALITY SHALL BE SUBSTITTED TO THE MOED AFTER APPROVAL OF GCDC-VAVS

GCDO DEMOLITION NOTES

A. PROOR TO BEGINNING ANY OF THIS WORK THE CONTRACTOR SHALL NOTIFY
COCCOWNS AT RIGH TRATERS AND FILL OUT THE INCCESSARY FORMS OR PERMIT
THE CONTRACTOR SHALL CUT AND SEAL THE EXISTING SANTIARY LEAD AT THE
PROPERTY LINE AND SHALL DESCONMENT THE EXISTING WASTER SERVICE LEAD A
THE CURB BOX SHUT-OFF VALVE ON THE HOUSE SIDE OF THE VALVE.

- B. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND
- C. THE CONTRACTOR SHALL REMOVE AND CLEAR ALL TREES, BRUSH, FEIXES, BURLINKS, CURB, AND ASPHALT AS SHOWN ON THE PLANS OR AS EXECUTED BY THE ENGINEER.
- D. ALL DEMOLITION MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. HO ON-SITE BURDING WALL BE ALLOADE MYTHOUT PROPER PERMISSION, PERMISS AND FEES FOR DISPOSAL OF DE VOLTO THE CONTROLLY SHALL BE OBTAINED AND PAID FOR BY THE CONTROLLY SHALL BE OBTAINED AND PAID FOR BY THE CONTROLLY SHALL BE
- F. BACKFILL EXCAVATED AREAS WITH CLEAN GRAMMAR FILL COMPACTED TO 95% OF THE MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR.
- G. AT THE CONCLUSION OF THE DEMOLITION OPERATIONS, THE ENTIRE WORK AREA SHALL BE LIFT IN A CLEAN CONDITION, ALL PROTECTIVE DEVICES AND BARRIERS SHALL BE REMOVED.

## **GCDC-WWS UTILITY STATEMENT**

**EXISTING UTILITIES WERE NOT EXPOSED FOR VERIFICATION** OF LOCATION AND ELEVATION DURING INITIAL FIELD INVESTIGATION. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ALL FINDINGS TO THE ENGINEER.

## GCDC-WWS UTILITY LOCATION NOTE

THE LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE BASED ON RECORDS PROVIDED BY THE UTILITY OWNERS AND VISIBLE EVIDENCE OBTAINED IN THE FIELD. EXISTING UTILITIES WERE NOT EXPOSED FOR VERIFICATION OF LOCATION AND ELEVATIONS. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED TO THE COMPLETENESS OR ACCURACY THEREOF.

## **GCDC-WWS NOTE**

THIS PROJECT HAS BEEN DESIGNED IMPLEMENTING THE LATEST GCDC-WWS DESIGN SPECIFICATIONS. CAREFULLY REVIEW THE NOTES, DETAILS, AND DESIGN PRIOR TO SUBMITTING A BID. FULL COMPLIANCE WITH THE NEW STANDARDS WILL BE REQUIRED.

## **EASEMENT STATEMENT**

ALL PUBLIC SANITARY SEWERS AND PUBLIC WATERMAINS SHALL HAVE AN EASEMENT GRANTED TO GCDC-WWS AND/OR LOCAL MUNICIPALITY FOR MAINTENANCE, REPAIR AND/OR REPLACEMENT. FOR CONDOMINIUMS, THE EASEMENTS SHALL BE RECORDED ON THE MASTER DEED DOCUMENT AND FOR A SUBDIVISION, THE EASEMENT SHALL BE NOTED ON THE FINAL RECORDED PLAT. ALL OTHERS SHALL BE RECORDED ON THE NEW STANDARD GCDC-WWS EASEMENT

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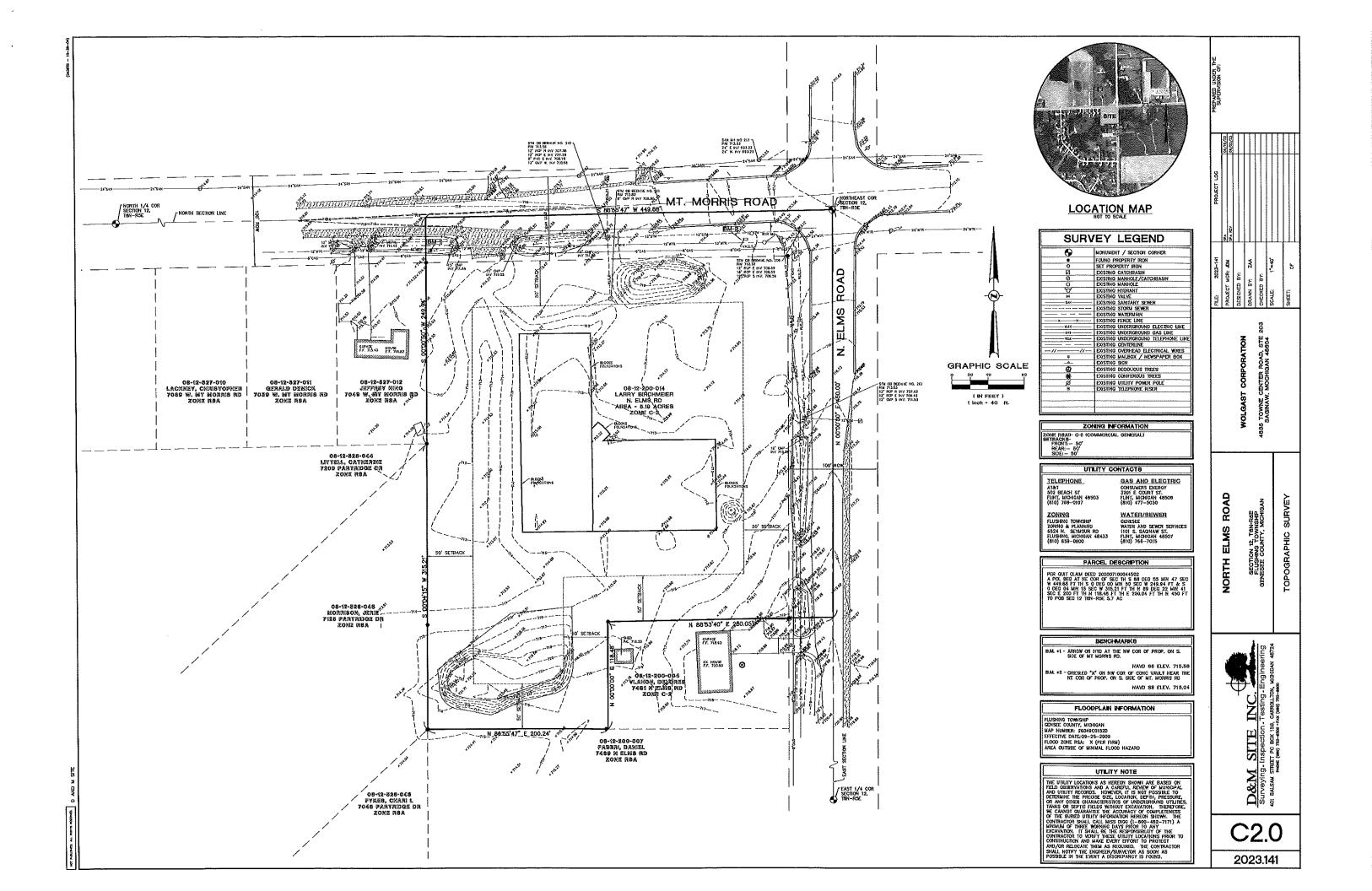
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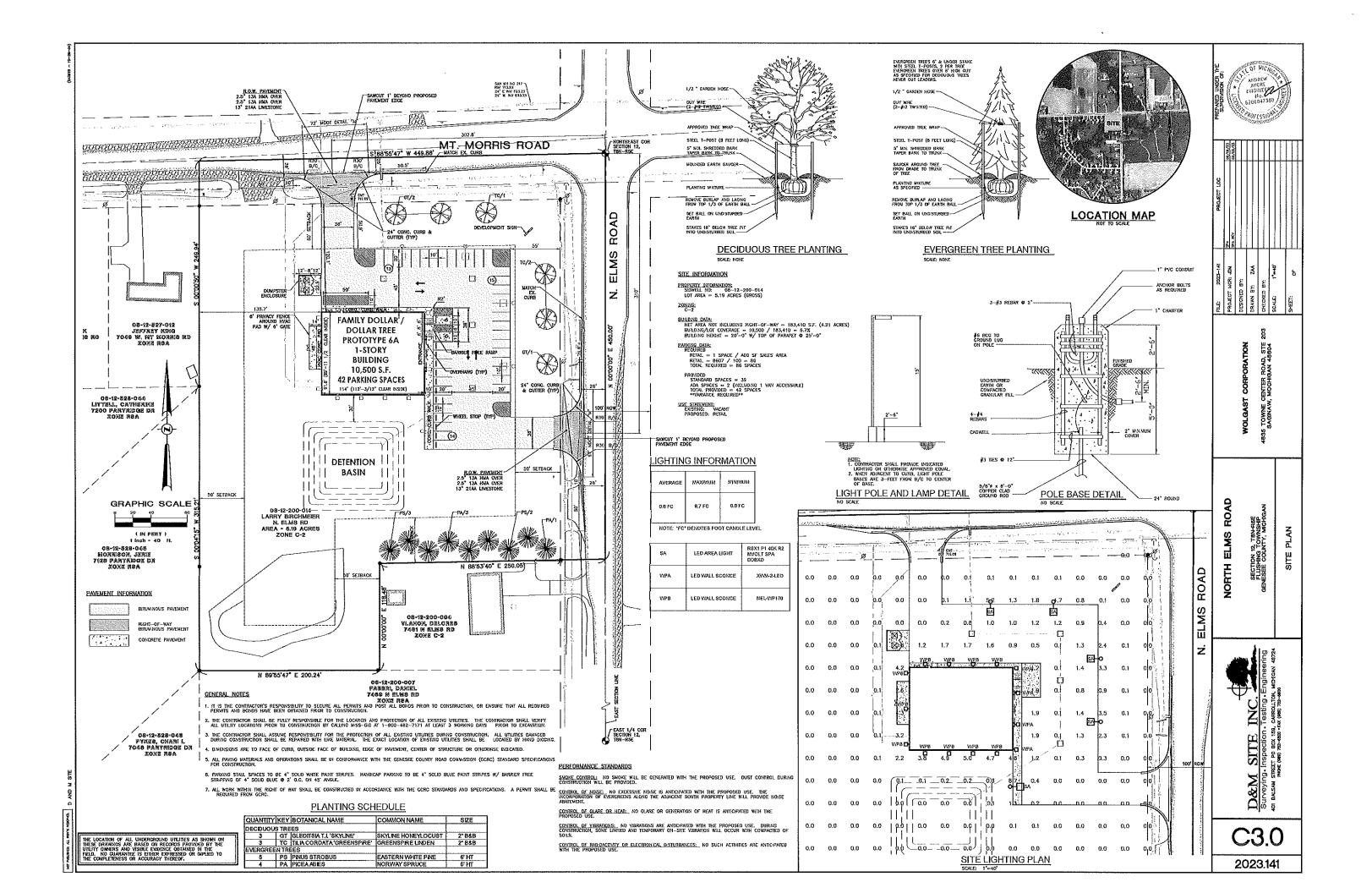
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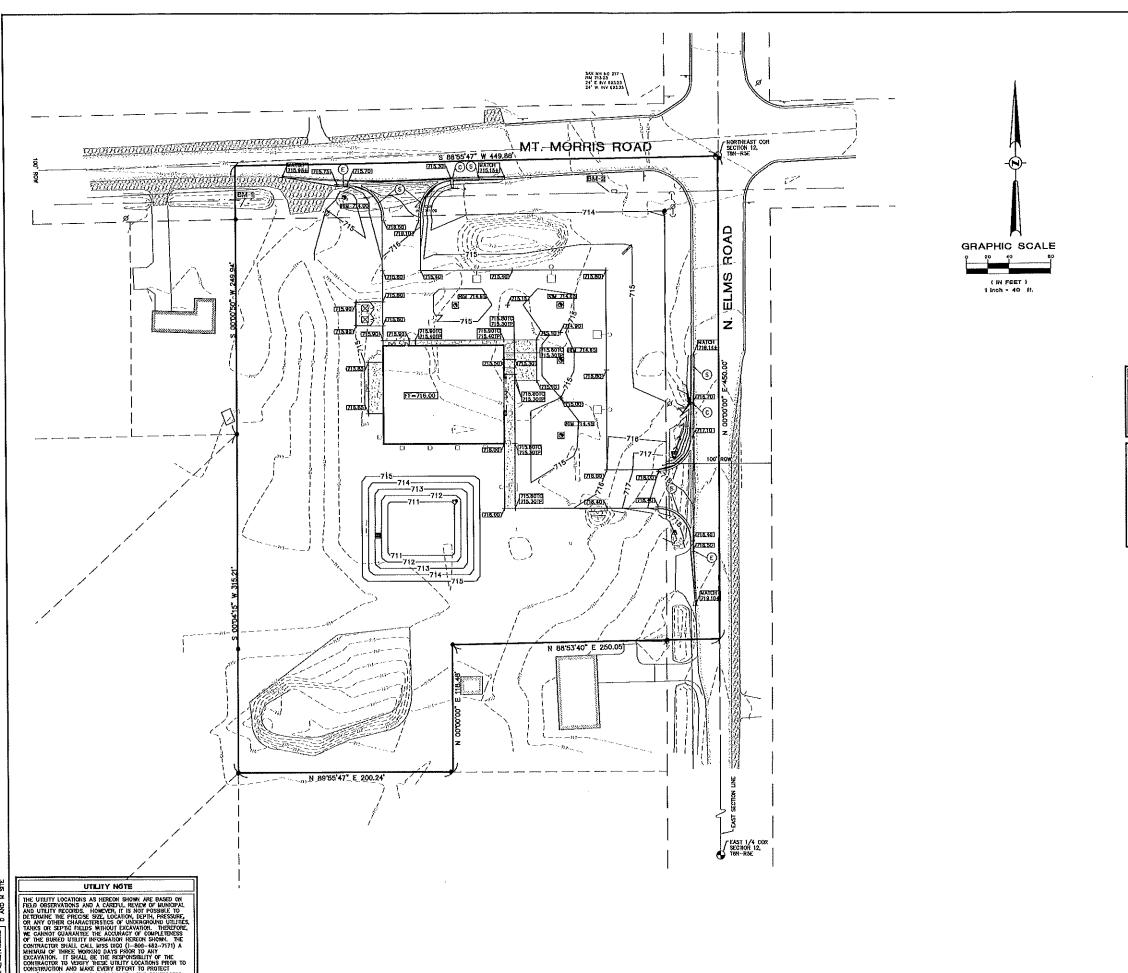
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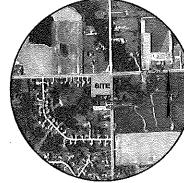
SECTION 12, TBN-RSE FLUSHING TOWNSHIP ESEE COUNTY, MICHIG

SITE









# LOCATION MAP

## GRADING NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLUSHING TOWNSHEP AND MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- 2. SPOT ELEVATIONS INDICATE GUITER GRADE UNLESS OTHERMSE INDICATED. REPER TO CONCRETE CURB & GUITER DETAIL ON SHEET CO. TOP OF CURB IP = 100 OF PANEMENT

### BENCHMARKS

BLAC #1 - ARROW ON HYD AT THE NW COR OF PROP. ON S. SIDE OF MIT MORRES RD.

PLM. #2 - CHIESLED "X" ON HW COR OF CONC VAULT NEAR TH NE COR OF PROP. ON S. SIDE OF MT. MORRIS RO

NAVO 88 ELEV. 715.04

## UTILITY CONTACTS TELEPHONE

AT&T 502 BEACH ST FLINT, MICHIGAN (810) 758-0107

GAS AND ELECTRIC CONSUMERS ENERGY 320; E COURT ST. FUNT, MICHIGAN 48506 (810) 477-5050 WATER/SEWER
GENESEE
WATER AND SENER SERVICES
1101 S. SAGRIAW ST.
FLINT, INCHIGAN 18507
(810) 766-7015

ZONING FLUSHING TOWNSHIP ZONING & PLANNING 6524 N. SEYMOUR RD FLUSHING, MICHIGAN 48433 (810) 659-0800

GENESSE WATER AND SEWER SERVICES 1101 S. SAGINAW ST. FLINT, MICHIGAN 48507 (810) 765-7015



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PROJECT MGR. JOH	NO. SOL	REV	52/50/60
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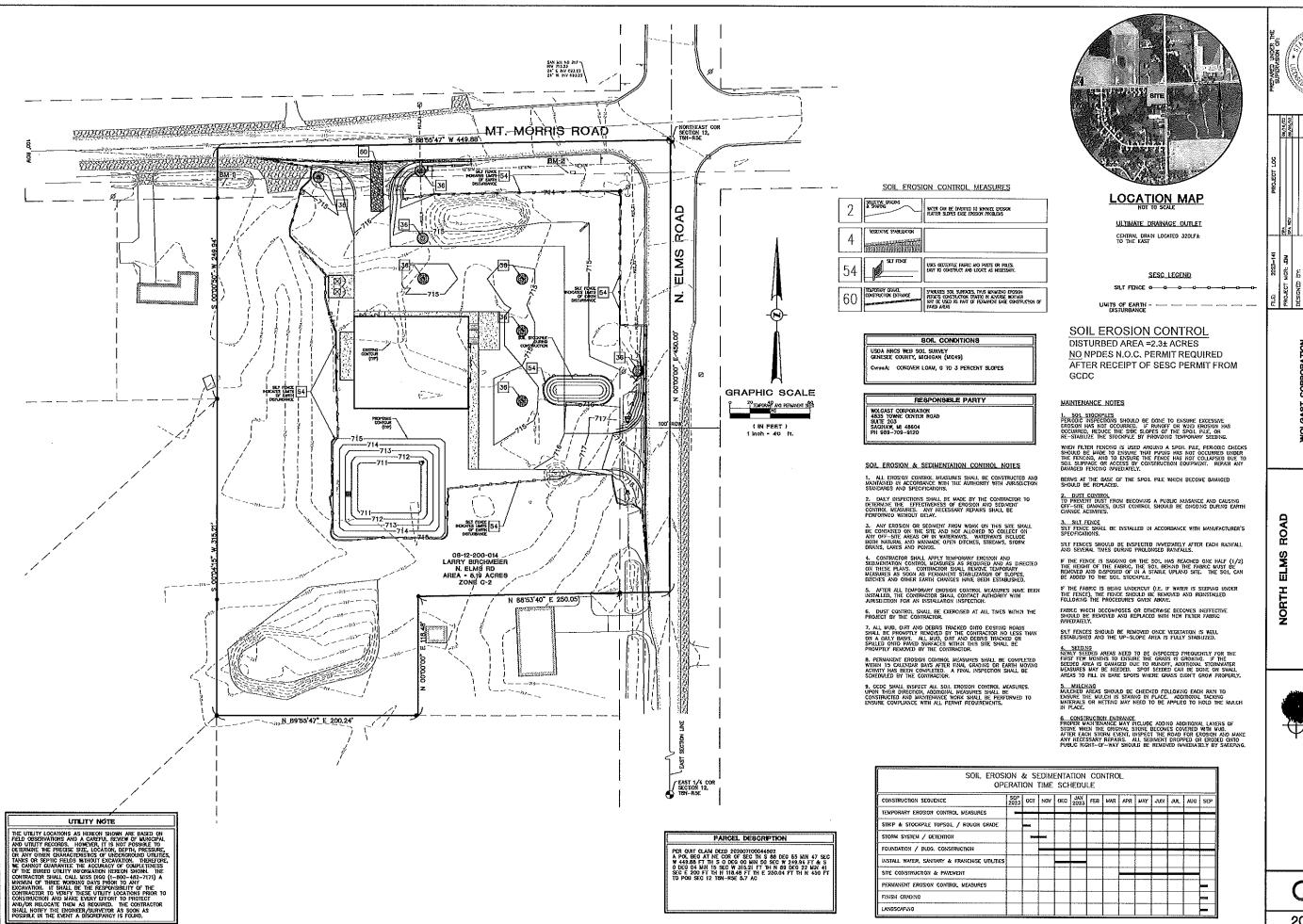
WOLGAST CORPORATION	4836 TOWNE CENTER ROAD, STE 203 SAGINAW, MOCHIGAN 48604
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NORTH ELMS ROAD

GRADING PLAN

D&M SITTE INC.
Surveying Inspection Testing &
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C4.0



335 TOWNE CENTER ROAD, STE SAGINAW, MOCHIGAN 48804

8

CONTROL

EROSION

SITE D&M Surveying.

C4.1

### NO DRAWING DETAIL PROVIDED

- 4. LEGIT VEHICULAR TRAFFIC TO 15 HILES PER HOUR.
- 5. BIMEDIATELY CLEAN-UP SEDIVENT TRACKED ONTO PAVED ROADS. KEDY CONSTRUCTION TRAFFIC DEECETO TO STABILIZED SITE ROADWAYS WIEN POSSIBLE.
- 8. DUST CONTROL APPLICATION NEEDS TO BE APPLIED ON A REGULAR SCHEDULE TO MAINTAIN EXPECTMENTS.

DUST CONTROL 1

# V 2 27 SLOPE VARIES (1: 2 OR FLATTER) PROPOSED GRADE (VARIES BY SITE CONDITIONS)

NOTE: PROPOSED GRADE DEPENDENT ON SITE SPECIFIC CHARACTERISTICS SUCH AS SOIL TYPE, VEGETATIVE COVER, AND WATER MOVEMENT ABOVE AND BELOW GRADE.

- 2. AVOID SENSITIVE AREAS (WATERCOURSES, WEILANDS, VEGETATIVE BUFFERS) WITH GRADING/SHAPING.

5. EXPOSED AREAS SHOULD BE STABILIZED WITH VECETATION OR OTHER CROUND COVER AS SOON AS WORK IS COMPLETED OR INTERRUPTED FOR 2 NORMAL WORK WEEKS.

SELECTIVE GRADING AND SHAPING 2

SILT FENCE



## TEMPORARY SEEDING

### APPLICATIONS

- WHEN AN AREA KEEDS STABILIZATION DURING A BREAK IN CONSTRUCTION.
- 2. TO STABILIZE SOR, AND PREVENT OR REDUCE SOR, EROSION/SEDMENTATION PROBLEMS FROM DEVELOPING.

- 2. SELECT ANNUAL GRASS SEED FOR TEMPORARY COVER AREAS.
- COYER AREAS.

  3 SED MISES MAY YARY, SHOULD ONLY CONTAIN ANNUA, INON-AGRESSIVE SPECES, AND CONTRAIN HOUSE FIRE, MEAT OR OAT SPECIS. SEED MISES SHOULD OBTAINED THROUGH CONSENTATION WITH A CERTIFIED SEED PROVICES AND WITH CONSENTATION OF SOL THE, USETING AND USE APPLICATION.
- 4. PREPARE SEEDSED BY REMOVAL OF CONSTRUCTION AND WOODY DEBROS. THEN SCARREY OR RAKE SEEDSED.
- 5. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- 8. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. MUCH HANDLEATELY AFTER SEEDBED ALL SLOPES, WISTABLE SOLS, HEAVY CLAY SOILS AND ALL ALPEAS ADJACENT TO MICHARDS, METROMORIES, OR SENSIBINE AREAS.
- 7. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.
- Inspect Temporary Selded Areas Weekly and following Each Rain Evont Unity, Final Grading and Stabilization are Coupleted.
- 10. TEMPORARY SEEDING MUST BE FOLLOWED BY PERMANENT SEEDING.

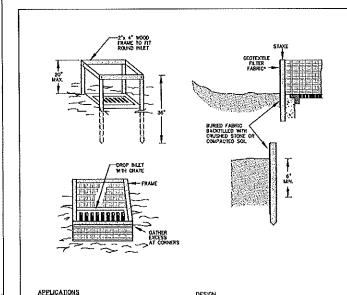
## PERMANENT SEEDING

### APPLICATIONS

- 2. TO STABILIZE SOT, AND PREVENT OR REDUCE SOT, EMISION/SEDWENTATION PROBLEMS FROM DEVELOPING.

- 2. SELECT <u>PEREMINAL</u> GRASS AND GROUND COVER FOR PERUAHENT COVER.
- 3. SEED MINES WAY VARY BUT SHOULD BE SALECTED THROUGH CONSULTATION WITH A CHRISTIC SEED FROM THE AUGUST AND WHITE A CHRISTIC SEED FROM THE LIGHT, MOSTURE, USE APPLICATIONS, AND NATIVE SPECIES CONTENT.
- 5. PREPARE A 3–5' DEEP SEEDSED, WITH THE 10P 3–4' CONSISTING OF TOPSOR.
- 8. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- SLOPES STEDER HOW TO SHOULD BE ROBURDED.
   JUPILY SELD AS SOON AS POSSBEE AFTER SEEDED PREPARATION. SEED WAY BE BRADACKET BY HAVO, HORROSEDDING, OR BY USING MECHANICAL OFFILES.
   DORNANT SEED MINES ARE FOR USE AFTER THE CROWNED SEASON, USING SEED WHICH LES DORNANT IN THE WHITER AND REGOIS DROWNED AS SOON AS STEE CONDITIONS BECOME LANGUAGE.
- 9. MULCH PAMEDIATELY AFTER SEED-NO. 10. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.

## VEGETATIVE STABILIZATION 4



CATCH BASIN INLET PROTECTION [36]

1, PRIETS WITH DRAFRAGE OF 1 ACRE OR LESS AND SLOPES LESS THEN 5%

2. SERVICE, CLEAN AND REPAIR AFTER EACH STORM EVENT.

DO NOT USE SLT FENCE IN LIEU OF FILTER FABRIC FOR THIS APPLICATION.

SILT FENCE JOINT PONDING HEGHT SILT FENCE -SECURELY TO
UPSTREAM SIDE
OF POST UNDER
LATH
RUNOFF 9" MAX.
(RECOMMENDED)
ORAGE OF SEDIMENT STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

FILTER BAGS MAY BE PLACED IN THE MANHOLE TO INCREASE THE EFFECTIVENESS OF THIS DEVICE.

2. IN SOME CASES FILTER BAGS IN THE MANHOLE WAY BE USED ALONE. APPLICATIONS

4. TOP OF FRAME (POHDING HEIGHTS) MUST BE LOWER THAN CROSHO ELEVATION DOWN STREAM TO PREVENT BYPASSING THE NUET, A TEMPORARY DIKE MAY BE NECESSARY DOWN SLOPE OF THE STRUCTURE. 2. DIVERSIONARY STRUCTURE.

1, INSTALL AROUND THE BASE OF SOIL STOCKPILES. 2. UTLIZE FOR SHEET FLOW ONLY,

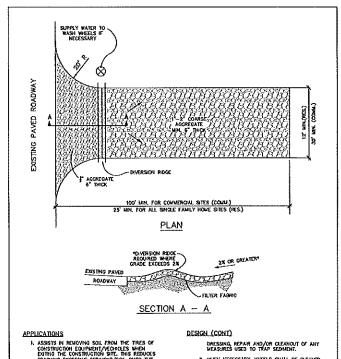
3. INSTALL ON DOWN STREAM SIDE OF CONSTRUCTION.

## DESIGN (CONT)

5. IF POSSIBLE LOCATE FENCE 10-FT, FROM TOP OF SLOPE, WETLAND OR WATER BODY.

8. JOHN SECTIONS OF SILT FENCE BY WRAFPING THE ENDS TOGETHER.

SILT FENCE 54



LASSISTS IN RELIGIMO SOIL FROM THE TIRES OF CONSTRUCTION EQUIPMENT/MODICLES WHEN EDITION THE CONSTRUCTION SITE. THIS REDUCES PRACESIGE EXCESSIVE SEDIMENT/SOIL ONTO THE ADJACENT ROAD. WHEN NECESSARY, WHERLS SHALL BE CLEANED PRIOR TO ENTRANCE ON PUBLIC RIGHTS-OF-WAY

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE [60]

135 TOWNE CENTER ROAD, STE SAGINAW, MOCHIGAN 48804 CORPORATION WOLGAST

ROAD

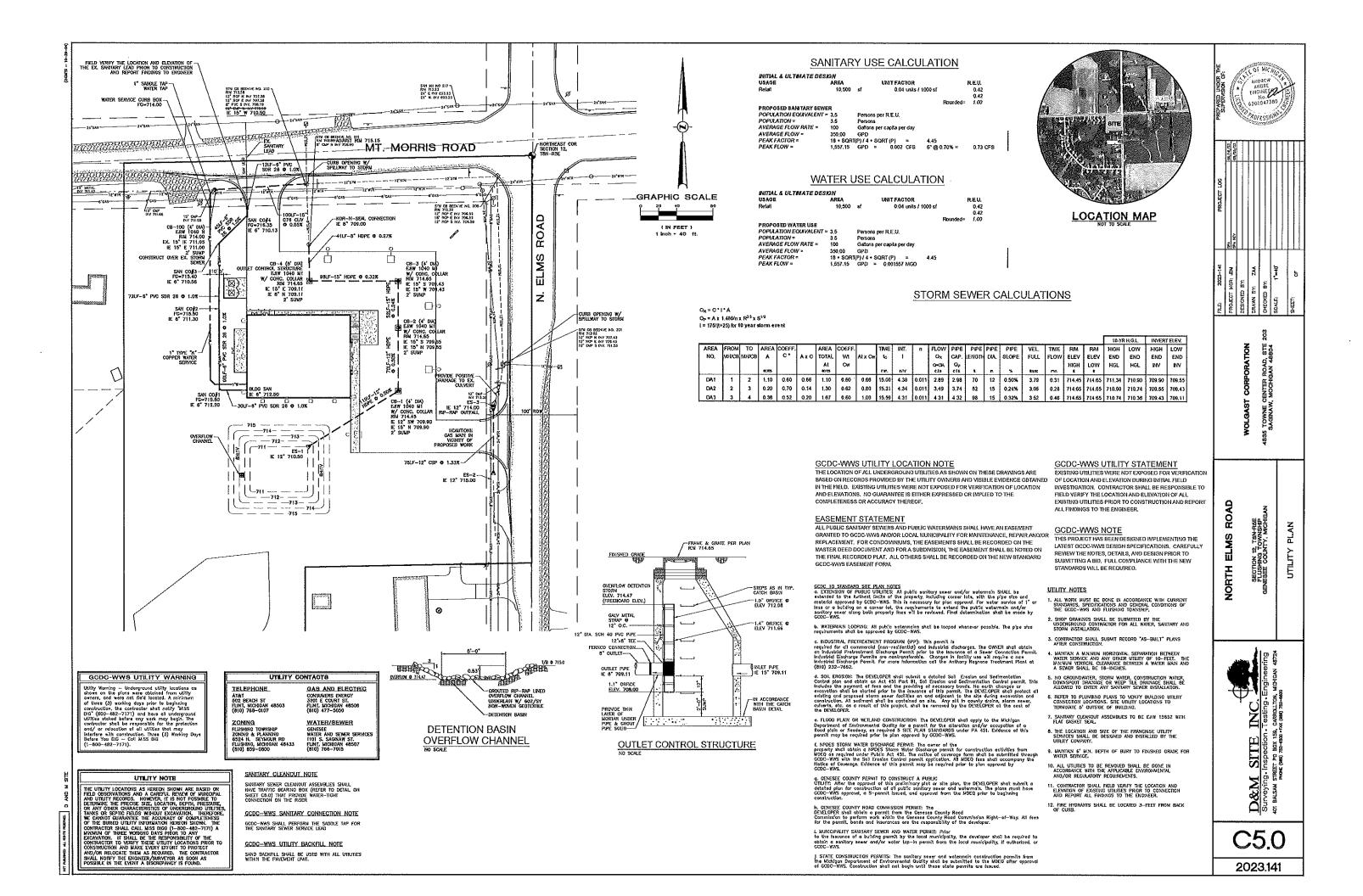
ELMS

NORTH

CONTROL



C4.2



Calculations for Stormwater Runoff Volume Control

SITE NAME: FAMILY DOLLAR FLUSHING TOWNSHIP

4.21 acres

2.25 In (See Rainfall Tab for regional or site specific rainfail event may be substituted with DHRE approval)

Pre-Development Conditions

Cover Type	Soli Type	Area (sf)	Area (ac)	CN (from TR-55)	s	Q Runoff <sup>4</sup>	Runoff Volume (ft <sup>3</sup> )
					1000 CN	$(P - 0.35)^2$ (P - 0.35)	Q×1/12×A
Wooda / Meadow	٨	0		30	23.3	0.27677817	0
Open Space	A	0		39	15.6	0.0510248	0
Woods	В	0		55	8.2	0.04416834	0
Meadow	Ð	0		58	7.2	0.0818189	0
Ореп Space	В	0		61	64	0.13057686	0
Woods	С	0		70	43	0.34595824	0
Meadow	C	0		71	4.1	0.37675147	0
Open Space	С	182581	4.19	74	3.5	0.47826175	7278,792441
Woods	D	0		77	3.0	0.5945079	0
Meadow	D	0		78	2.8	0.636804	0
Open Space	D	0		80	2.5	0.72713615	0
imper/lous	N/A	829	0.02	98	0.20	2.03228931	149.3973198
Other:	1	0		1	1	NA.	NA.
TOTAL:	N/A	183410.0	4.2	N/A	N/A	N/A	7,417

Post-Developmen	t Conditior	5					
Cover Type	8oll Type	Aiea (si)	Area (ac)	CM.	8	Q Runoff <sup>t</sup> (in)	Runoff Volume <sup>2</sup> (11°)
Impenious	N/A	43928.72	1.01	98	0.2	2.03228931	7439.655671
Penious	C	139481.28	3.20	74	3.5	0.47826175	5559,046801
		0			0.0	0	0
		0			0.0	0	0
TOTAL:	NA		4.2	AVI	NA	NA	12,999

Runoff Volume Increase (n³): 5,582

## **DETENTION CALCULATIONS**

REQUIREMENT A: First Ftush (Water Quality)
Using the 00% annual non-exceedance storm methodology.
P = 0.90
Impendus % = 2.44
R> = 0.55 + 0.009 (24%) = 0.27
WOV = 0.243
Woltenhed Inc.
Control to C Mr. East

P = Impenious % = Ry = 0.05 + 0.009 (24%) = WOV = Convert to Cubic Feet WOV = First Flush Elevation =

REQUIREMENT B: Channel Protection (Benkfull)
Post-development sils nuroff volume and peak flow rale at or below
esting levels for all storms up to the 2-year, 24-hour event
Total Contabuting Area:
12 beres
7,417 c.f.
Post-Development Conditions:
12,999 c.f.

Calculations for Stormwater Runoff Volume Control Channel Protection: 5,582 cf

REQUIREMENT C: FLOOD CONTROL

0.64 cfs max discharge 160 minutes for maximum volume 1.4 in / hour (GCOC IDF curve) 17,946 cubic feet

100-Year Storm Detention Basin PROVIDED
PROVIDED VOLUME = 18,207 cf @ Elev = 714
STORM ELEVATION = 713.97

STORM STORAGE INFORMATION ORAGE INFORMATION
VOLUME ELEVATION
3,715 711.66
6,582 712.08
12,902 713.31
17,948 713.97 EVENT First Flush Channel Prot 10-YEAR 100-YR OVERFLOW 714.47

	DETENTION B	ASIN VOLUE	AE.
ELEV	AREA (ft²)	AVG.	(U <sub>2</sub> )
710.50	0		0
		791	
710.75	1,582		79
		2,373	
711	3,164		1,265
		3,536	
711.5	3,908		3,033
		4,280	
712	4,652		5,173
		5,100	
712.5	5,548		7,724
		5,997	
713	6,445		10,722
		6,965	
713.5	7,485		14,204
		8,005	
714	8,525		18,207
		9,117	
714.5	9,710		22,766
		10,302	
715	10,894		27,916

RESTRICTED DISCHARGE Regulsement A: First Flush (Water Quality) The restricted discharge will be released over First Flush (Water Quality) volume = Q=V/T = 0.043  $A = O_{A}/(0.62^{\circ}(2^{\circ}g^{\circ})_{A \setminus E})^{\circ}0.5$ A = 0.0069 s.f.

Orifice Dia = 1.1 in inches @ 769.00

Requirement B: Channel Protection (Backfull)
The restricted dscharge will be released over
Channel Protection (Bankhill) volume =
0 = V / T = 0.032 cfs
h = 0.42 ft

A = Q<sub>x</sub>/ (0.62\*(2\*0\*1h<sub>x/x2</sub>)\*0.5 A = 0.010\( \) s.f. 1\* DA H Ortica Dia = 1.4 Inches @ 711.66 1" DIA HOLE (SF) =

Requirement C: 100-Year Storm have # (ELEV<sub>100</sub> - ELEV<sub>OUTLET</sub>)

N<sub>X</sub> = (ELEV<sub>100</sub> - ELEV<sub>101</sub> - ELEV<sub>101</sub>

A = 0.01 s.f. D= 1.5 inches @ 712.08 OVERFLOW WEIR/SPILLWAY DESIGN

Q=C'8'H<sup>52</sup> Q= 2.7 C= 3.4 H= 0.5 CFS (Q = C \* I \* A) Weir Coefficient 2.71 B=Q/(C\*H32) B= 2.1

Overflow Outfall Outlet Upstream PPE Invest 714.47 Invert 709.00 2.71 The discharge pipe from the Outlet Control Structure has been sized to acco

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35 TOWNE CENTER ROAD, STE SAGINAW, MOCHIGAN 48604

NORTH ELMS ROAD SECTION 12, T8N-R5E FLUSHING TOWNSHIP ESEE COUNTY, MICHIG

MANAGEMENT

STORM

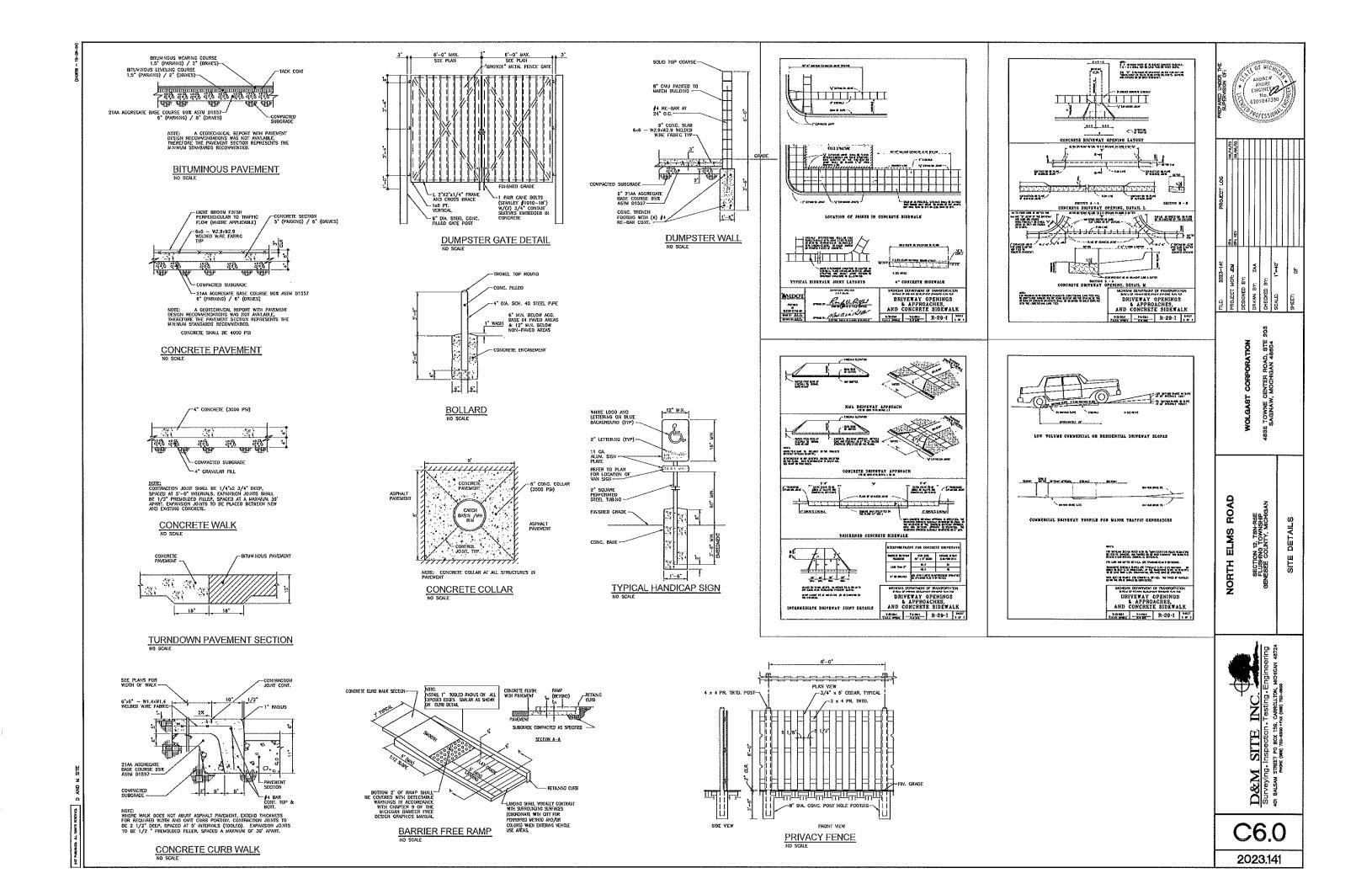
D&M SITTE INC. Surveying, Inspection, Testing, to But 159, CARROLTON.

C5.1

2023.141

THE UTILITY LOCATIONS AS HEREON SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REFLECT OF WINNERPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF MORROWOOD UTILITIES TARKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE WE CHARACTERISTICS OF MORROWOOD COMPLETERISTS.

UTILITY NOTE



STANDARD SPECIFICATIONS & DETAILS

I. JUMPUARU SPECIFICATIONS & DETAILS
ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST CENESEE COUNTY
STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR SANITARY SEMER, PRESSURE PIPE,
AND PUMP STATION CONSTRUCTION. ANY DEVALUTIONS FROM THE GOOD—WAS APPROVED
PLANS WILL, NOT BE PERMITTED. [F. IT BECOMES INCESSARY TO REMSE. THE PLAN. THEY,
SHALL BE RESUMMITTED. TO GODD—WAS FOR APPROVAL.

2. PRE-CONSTRUCTION MEETING

A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE GCDC-WWS OFFICE PRIOR TO BEGINNING THE WORK. NO PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO BEGINSMY THE WORK. THE PRE-TOTAL STATE OF THE THE STATE OF THE TAKE ON THE OFFICE OF THE THE TAKE ON THE OFFICE OF THE THE OFFICE OF THE THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OFFICE OFFICE O

3, MISS DIG 811 UTILITY ALERT

3. MISS DIG 811 UTILITY ALERT THREE (2) MORRING DAYS PRIOR TO BEGINNING THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT HISS DIG 811 UTILITY PROTECTION SERVICE (1-800-482-717) OR 811) TO VERFY THE LOCATION OF ALL EXISTING UTILITES. THE CONTRACTOR SHALL ASSULE RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DAYS CONTRIBUTION. ALL UTILITIES DAYAGED DURING CONSTRUCTION SHALL BE PROPERLY REPARED IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.

4. FIELD LOCATION OF SITILITIES

4. FIELD LOCATION OF UTILITIES PROPER TO EXPOSE ALL BEREGURED TO EXPOSE ALL BOSTING UTILITIES THAT CROSS THE PROPOSED CONSTRUCTION, SO THE DIGNESS MAY DESTENDED BY A VERTICAL CONFLICT EXISTS EFFECH AN DESIGNS UTILITY AND THE PROPOSED WORK. ALL LABOR REQUERD TO UNCOVER THE EXSING UTILITY SHALL BE CONSIDERED INCLUEDD IN THE LIFEL FEET OF PRESSURE PIPE OR SANTAMY SEWER PIPE INSTALLED. THE CONTRACTOR SHALL VERFY THE DEPTH AND HORTONIAL LOCATIONS OF ALL UTILITIES HE SUFFICIENT THE SUSH THAT ANY CONFLICTS CAN BE RESOLVED BEFORE WORK IS STATIED IN THAT FORTION OF THE PROJECT. THE CONTRACTOR SHALL ARRANGE OR THE VARIOUS UTILITY OWNERS TO LOCATE, RUDIOW AND BEPLACE, OR RELOCATE THE PROJECT.

5, SUBSURFACE SOIL CONDITIONS

O, DUDSUNFACE SUIL CONDITIONS
PRIOR TO BEDONG, THE CONTRACTOR AND SUBCONTRACTORS SHALL MAKE A PERSONAL
INVESTIGATION OF THE STIE AND EXISTING SURFACE AND SUBSURFACE CONDITIONS. THE
CONTRACTOR SHALL ACQUAINT ITSELF WITH CONDITIONS OF THE WORK AREA. THE
CONTRACTOR IS ADVISED TO DETERMINE THE SUBSURFACE SOIL AND GROWN WATER
COMPRIOR IS ADVISED TO DETERMINE THE SUBSURFACE SOIL AND GROWN WATER
COMPRIORS. DEWATERING, IF DETERMINED NECESSARY BY THE CONTRACTOR AND IF NOT
SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, WILL BE INCIDENTAL TO THE COST
OF INSTALLATION.

6. PERMITS AND FEES

THE CONTRACTOR/DEVELOPER SHALL OBTAIN ALL PERMITS, INCLUDING THE PAYMENT OF ANY FEES OR BONDS, REQUIRED BY ANY FEES OR BONDS, REQUIRED BY ANY FEED RATE, COUNTY, LOCAL, OR PRIVATE ORGANIZATIONS PRIOR TO COMMENCING WORK.

7. GCDC--WWS INSPECTION FEES
THE DEVELOPER SHALL PAY FOR ALL SANTIARY SEMER AND PRESSURE PIPE INSPECTION
FEES AND WATER USAGE FEES PRIOR TO THE PRE-CONSTRUCTION MEETING.

8. SOIL EROSION CONTROL, PART 91 OF P.A. 451 OF 1994 D. SURL ENCOSION CONTROL, PART 191 UP 1.9.4 931 UF 1994 THE CONTROCROPREVELOPER SHALL COMPLY WITH ALL PROVISORS OF PART 91, ACT 451 OF P.A. 1994 FOR SOIL EROSION AND SEDIMENTATION CONTROL AND WILL BE RESPONSIBLE FOR ALL MAINTENANCE UNITH THE FINAL ACCEPTANCE OF THE PERMANENT CONTROL MEASURES BY GODO-WAYS. THE CONTRACTOR/DEVELOPER IS REQUIRED BY GODO-WAYS TO PREPARE AND SUBJULT A SOIL EROSION AND SEDIMENTATION CONTROL PLAY IN CRUES TO OFFINITY THE SOIL EPOSON'A AND SEDIMENTATION CONTROL PERMIT AND TO PAY ANY APPLICATION FEES AND BOND FEES NECESSARY TO DETAIN THE FEMALT.

9. STATE CONSTRUCTIONS PERMITS
THE CONSTRUCTION OF PURBLE SANITARY SEWERS OR PRESSURE PIPES SHALL NOT BEGIN
UNTIL THE REQUIRED STATE CONSTRUCTION PERMITS HAVE BEEN OBTAINED. NOTE: SOLL
ENDISON AND CONSTRUCTION PLAN APPROVAL ARE SEPARATE APPROVALS AT GCOC—WISC.

10. ROADWAY PERMITS
A PERMIT FROM THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS IS REQUIRED FOR
ALL CONSTRUCTION WITHIN ANY ROAD RIGHT-OF-WAY. IT IS THE CONTRACTOR'S
RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS, POST ALL NECESSARY BONDS, PAY
ALL FEES, AND OGTAIN ANY REQUIRED INSURANCES IN CONNICTION THERE WITH.

11. WORK OBSERVATION

11. WORK OBSERVATION ALL WAR SHALL BE PERFORMED UNDER THE OBSERVATION OF A CONSTRUCTION OBSERVER FROM CCDC-WAS OR LOCAL MUNICIPALITY HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OBSERVANC ACSIONES THREE (3) WORKING DAYS OR 72 HOURS PROR TO STARTING CONSTRUCTION TO ARRANGE FOR ON-STIE OBSERVATION AND TESTING. OUT SHEETS FOR ALL PIPEL INSTALLATION AND REDITCHING SHALL BE PROVIDED TO THE CODC-WAS CONSTRUCTION OPERATION'S SUPERVISOR A MUNICIPAL OF 24 HOURS PRIOR TO STARTING THE WORK WITH RESPECT TO THAT UTILITY. GOCG-WAS ORD THE WORK WITH RESPECT TO THAT UTILITY. GOCG-WAS ORD THE WORK WITH RESPECT TO THAT UTILITY. GOCG-WAS GROWN OF THE COLL MUNICIPALITY HAVING JURISDICTION SHALL BE NOTIFIED FOR A RINAL INSPECTION.

12, CONTRACTOR'S MINIMUM WAGE & USE OF IN-COUNTY LABOR THE CONTRACTOR SHALL EMPLOY COMPETENT AND SOLLED WORKERS THROUGHOUT THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL STRIVE TO USE GENESE COUNTY RESOURCES WENT FEASIBLE. THE CONTRACTOR SHALL BE REQUIRED TO PAY THE PREVAILING WAGE RATES AS ESTABLISHED BY THE DUILDING AND CONSTRUCTION TRADES TRETACHINE MACE HALLS AS ESTABLISHED BY THE BUILDING AND CONSTRUCTION TRADES OF DEPARTMENT OF THE AMERICAN FEDERATION OF LABOR WHICH APPLIES TO THE COUNTY OF CRISSE. THESE RATES CAN BE OBTAINED BY CONTACTING THE MICHIGAN DEPARTMENT OF CONSIDER AND INDUSTRIAL SERVICES.

13 MOSHA SAFETY RECHIREMENTS

13. MIOSHA SAFETY REQUIREMENTS
ALL WORK, WORK PRACTICE, AND MATERIALS SHALL COUPLY WITH ALL APPLICABLE STATE
AND FEDERAL SAFETY GUIDELINES, OCCUPATION, HEALTH AND ENVIRONMENTAL
REGULATIONS, AND ALSO NYPA AND ANS COOSES AS APPLICABLE. ALL WORK INSIDE A
CONTINED SPACE, SUCH AS MANNOLES OR OTHER UNDERGROUND STRUCTURES, SHALL BE
COORDINATED WITH THE UTILITY OWNER, AND ALL MORKER SAFETY REQUIREMENTS STRUCTLY
DEFORCED, THE CONTRACTOR SHALL HAVE ITS SAFETY PLAN ON FILE WITH COOC—WAS
AND ONE COPY ON SITE AT ALL TIMES.

14. ROADWAY REQUIREMENTS FOR UTILITY CONSTRUCTION THE CONTRACTOR SHALL COUPLY WITH ALL OF THE REQUIREMENTS OF THE CORE OR LOCAL MUNICIPALITY REGARDING THE CONSTRUCTION OF PRESSURE PIPE AND SEVER MAINS, MANTAINING TRAFFIC, BARRICADING, BORING, BACKFILING AND RESTORATION WITHIN THE ROAD RIGHT—OF—WAY.

15. OPEN CUTTING OF COUNTY/LOCAL ROADS WEN OPEN CUTTING OF GRAYEL OR HARD SURFACED ROADS ARE INCORPORATED INTO THE PROCEOT, THE CONTRACTOR SHALL OBSTAN THE APPROVAL AND COMPLY WITH ALL OF THE REQUIREMENTS OF THE ACEDICY HAVING AUTHORITY OVER THE ROADWAYS, AND BY THE SPECIFICATIONS OF GOCO-MISS.

16. GRAVEL ROAD CONTAMINATION BY THE WORK IF IT IS DETERMINED BY THE AGBICTY HAMMS AUTHORITY OVER THE ROADWAYS THAT GRAVEL ROADS HAVE BECOME CONTAINATED DURING THE WORK, THE ROAD WAST BE REPARED PER THE AGBICTY HAMMS AUTHORITY OVER THE ROADWAYS. WHERE THE EDSING ROAD GRAVEL IS REDUCED BECAUSE OF THE WORK, ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY HAMMS AUTHORITY OVER THE

17. RESTORATION OF GRAVEL SHOULDERS

IT IS DETERMINED BY THE AGENCY HANDA OUTDOMIT OVER THE ROADWAYS THAT GRAVEL SHOULDERS HAVE BEEN CONTAMINATED BY THE WORK, THE CONTRACTOR SHALL RE-CRAVEL PER THE AGENCY HANNOA UNTHORITY OVER THE ROADWAYS, ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY HANNOA AUTHORITY OVER THE ROADWAYS.

18. COMPACTED GRANULAR BACKFILL FOR ROADWAYS, DRIVES, ETC. ALL TRINCH EXCAVATION WHINI A ONE-ON-LONE INTLUENCE OF A ROADWAY, DRIVEWAY CROSSINGS, PARKING LOTS, OR AS OTHERWAY NOTED ON THE PLAIK, STALL EE BACKFILLED WITH COMPACTED SAND MODT CLASS II (AS) PER THE SCHEDILE OF BACKFILLED, FORND IN THE SPECIFICATIONS. IN ADDITION, SEE THE SPECIFICATIONS FOR THE REQUIREMENTS FOR THE COMPACTION FLAIN. THIS STANDARD ALSO INCLUDES SERVICE LEADS UNLESS BOWED,

10 SURFACE RESTORATION

19. SURFACE RESTORATION
ALL DISTURBED AREAS SHALL BE COMPLETELY RESTORED IN STRICT COMPLIANCE WITH THE SOL EPOSON AND SEDARCHATIONS SPECIFICATIONS AND TO THE SATISFACTION OF COCO-WAYS, ACID CS-SWM, SCIGO, UPOOT, THE LOCAL JUNIOPOLITY, AND THE PROPERTY OWNER, ALL COSTS FOR THE CLEANUP, RESTORATION WORK, AND OTHER INTERMEDIATE OPERATIONS INCLUDING BUT NOT LIMITED TO, CONSTRUCTION SIGNACES, STREET SWEEPING, AND MANTAINING ENSITING UTBLITES, SHALL BE CONSIDERED INCLUSIVE AND AT NO ADDITIONAL COST TO GEOD-WAYS. AREAS DISTURRED DURING THE WORK SHALL EXCENS MATERIALS, AFFICIATION OF SCREENED TO-FISCH, FERRILIZED AND SEEDED, ALL EXCESS MATERIALS, ORDERS, AND SHALLAR IDEAS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND ORDERS AND SOURCES OF HIS ACCORDANCE WITH THE LAW. ALL GROUND SURFACES SHALL BE RESTORED TO CHIRACORD AND GETTER PRIOR TO FIRAL APPROVIAL.

20. TRAFFIC CONTROL

20. TRAFFIC CONTROL

THE CONTROL REPORTED THE WORK IN A MANNER SUCH THAT TRAFFIC IS
MAINTANED AND ACCESS IS PROVIDED TO ALL RESIDENCES, BUSINESSES, AND COMMERCIAL
ESTABLISHMENTS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE TRAFFIC
CONTROL PLANS AND THE LATEST EDITION OF THE MICHIGAN MANUAL OF UNFORW TRAFFIC
CONTROL DEVICES, PAST IS, AND THE REPORTEMENTS OF THE ACCEPTCY HAVING AUTHORITY
OVER THE ROADWAYS, OR AS DIRECTED BY THE ENGINEER.

21. SIGNING AND BARRICADING

21. SIGNING AND PANTICLAUTING
SIGNING AND BARRICADING STALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH
THE DETAILS ON THE PLANS, THE LAIRST EDITION OF THE <u>MICHIGAN MANUAL OF INFERRIL</u>
TRAFFIC CONTROL DEVICES, PART 6, AND THE REQUIREMENTS OF THE ROBOTY HANNO
AUTHORITY OVER THE ROBOTANS. SIGNIS AND BARRICADES LEFT IN PLACE AFTER DARK

22. PROTECTION OF HAZARDOUS AREAS EXCAVATION AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES, SHOW FENCE, OR OTHER APPROPRIATE MEANS. BARRICADES LEFT IN PLACE AFTER DARK SHALL BE UGHTED.

23, STORM WATER DRAINAGE DURING THE WORK

2.3. STORM THEIR DIRAINAGE DURING THE WORK.

THE CORRECTOR/DEVLOPER SHALL OBTAIN THE SERVICES OF A CERTIFIED STORM WATER OPERATOR AND COMPLY WITH THE PROMISONS OF THE MPDES AND SESS PERMITS. THE CONTRACTOR SHALL MANTIAN DITCH DIRAINGED DURING CONSTRUCTION AND SHALL NO OBSTRUCT SUMP PUMP LEADS DISCHARGING BITO THE DITCH. THE COMPRACTOR SHALL TAKE ALL NEXTS. SERVER MEASURES TO PROTECT ALL STORM SERVER FACILITIES, SUCH AS CATCH BASINS AND COLVERTS, DURING THE WORK. CULVERTS AND CATCH BASINS CONTAMINATED DURING THE WORK SHALL BE CLEAVED.

24. LITHITY INFORMATION

ATT, OTHER I BY THEMPHONE
UILITY INFORMATION IS DELIBERATED IN ACCORDANCE WITH THE LOCATIONS PROVIDED BY
UILITY OWNERS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE
HORDMANION OF THE LOCATION AT WHICH THESE SERVICES EDST. DIFFERING FIELD
CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND
COOC—WAS.

25. EXISTING UTILITIES
THE CONTRACTOR SHALL MAINTAIN ALL EDISTING SANITARY SEWER, PRESSURE PIPE, OR
STORM SEWER CONNECTIONS IN SERVICE THROUGHOUT THE WORK. THE CONTRACTOR SHALL
PROVIDE OR ARRANGE FOR THE TEMPORARY SUPPORT OF GAS MAIN, TELEPHONE, FIREST
OPTIC, COME, PRESSURE PIPE, SANITARY SEWER, STORM SEWER, AND UTILITY POLES WHERE
NEEDED, ALL STORM SEWERS DANAGED OR REDOVED, OR RELOCATED BY THE CONTRACTOR,
SOUTHACTOR'S SOVE EMPINES. ALL UTILITIES UNDERNAMED BY THE EXCANTION SHALL HAVE
COMPACTED SANID BACKFILL PLACED UNDER THEM, UNLESS MOOT BACKGUSTED LIMESTORE
(AT) OR MOOT 724, CRAYAL (A2) IS SHORN ON THE CONSTRUCTION PLANS. ALL WORK,
INCLIDING THE RESIDENCE OF SANITARY SEWER SERVICE LEADS AND WATERMAIN LEADS TO
ACCOMMODATE CONSTRUCTION TO CLEAR EDISTING SERVICES, SHALL BE INCLUSIVE TO THE
PROJECT.

26. SHOP DRAWINGS

PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL FURNISH TO OCDO-WWS SHOP DRAWNOS AND/OR CATALOG CUTS FOR ALL MATERIALS AND EQUIPMENT ITEMS PER THE STANDARD SPECIFICATIONS.

27. MATERIAL CERTIFICATIONS
PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL FURNISH TO GCDC—WAS
MATERIALS DESTRIPCATES FOR ALL MATERIALS USED DURING THE WORK.

28. NON-STOPPAGE CLAUSE THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP THE WORK FOR EXTENDED PERIODS ONCE THE WORK HAS BEGUN WITHOUT WRITTEN APPROVAL OF CODC-WMS.

29. DISPOSAL OF EXCESS EXCAVATED MATERIAL

29. DISPOSAL OF CALCASI EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR, WITH ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. ADJACENT PROPERTY OWNERS SHALL BE GIVEN PREFERENCE FOR DISPOSAL SITES. WHETEN PERMISSION FOR DISPOSAL ON ADJACENT PROPERTY OWNERS SHALL BE PROVIDED TO GCDC—MUS.

30, CONSTRUCTION STAKING

30. CONSTRUCTION STAKING THE CONTRICTION SHALL AT ITS OWN EXPENSE, PROVIDE A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF MICHIGAN, TO PROVIDE ALICAMENT AND GRADE STAKES, AND CUT SHEETS. THE SURVEYOR SHALL PROVIDE CRADE STAKES AND CUT SHEETS AT ALL STRUCTURES AND AT A MAXIMUM OF 50' INTERVALS DETMEEN STRUCTURES.

3), FINAL ELEVATIONS OF SURFACE UTILITIES ALL FINAL ELEVATIONS OF MACHINE CASTINGS, HYDRANTS, VALVES, AND VALVE BOXES STALL BE APPROVED BY THE GOOD—WAS REPRESENTATIVE IN THE FIELD. ANY ADJUSTMENTS THAT ARE MADE SHALL BE AT THE CONTRACTOR'S SOLE EMPENS.

32. PROJECT RECORD DOCUMENTS

UPON COMPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL FROM CCDC-WWS, THE

OWNER/DEVICE/PET SHALL FURNISH GCDC-WWS WITH ONE COMPLETE SET OF PROJECT

RECORD DOCUMENTS. THESE PROJECT RECORD DOCUMENTS ARE COMPRISED OF DRAWINGS

ON MULAR AND AN ELECTRONIC DATA SET.

THE MYLAR PROJECT RECORD DOCUMENTS SHALL BE SUBMITTED TO COOC-WWG ON 4 MIL MYLAR FOR THE REYMEN AND APPROVAL OF COOC-WWS. THE MYLAR PROJECT RECORD DOCUMENTS SHALL INCLUDE BUT NOT BE LUMIDED TO: RYENTE OF FIRES, LOCATION OF MANROLES, PIPE LENGTHIS, SLOPES OF FIPE, LOCATION OF SERVICE LENGS, LOCATION OF MANROLES, DICATION OF BEINDS, TEST CROSSES, JAIN LOCATION OF UNIT BOXES. THIS STORMATION, SHALL BO ANTHER SHALL IS CONSIDERED TO CONTROL OF DEPOLISE OF THE STORMATION, SHALL BO ANTHER SHALL IS SHALL SO MYLOTIONAL RECOMMENDED TO COLLECTION OF THE CONTROL WAS ON MINISTER HIM. SO SHALL DOCUMENT OF THE CONTROL WAS ON MINISTER AND CONSTRUCTION ORSERVER.

BY ADDITION TO THE AS-BULLY MYLARS, THE OWNER/DEVELOPER SHALL PROVIDE TO COCO-WAS AN ELECTRONIC DATA SET IN A MICROSOFT EXCEL SPREADSHEET DEFAULD THE FOLLOWNO ITEMS IN THEIR AS-BULLT LOCATIONS DEPICTED IN MICHEMA STATE PLANE SOUTH COCORDIATES (NADSS) AND ELEVATIONS (USCSS/NOV): ALL MARNOLES (WATER AND SANTARY) AT THEIR TERMINUS, ALL WALVES, AND ALL STRYCE RISERS (WATER AND SANTARY) AT THEIR TERMINUS, ALL METER PITS, AND ALL PUMP STATIONS.

2-YEAR MAINTENANCE AND GUARANTEE BOND UPON COUPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL FURNISH THE GCOC-WWS WITH A 2-YEAR MAINTENANCE AND GUARANTEE BOND.

34. SOIL EROSION AND SEDIMENTATION CONTROL RELEASE PRIOR TO FINAL ACCEPTANCE BY OCOC-MAS, THE CONTRACTOR SHALL REQUEST A FINAL MISSECTION OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND RECEIVE MERTER APPROVAL FROM COCC-MAS. THE SOIL EROSION AND SEDIMENTATION CONTROL BOND MILL BE RELEASED UPON COCC-WAYS FINAL APPROVAL.

35. ORDER OF PRECEDENCE

IN RESOLVING INCONSISTENCIES BETWEEN TWO OR MORE SECTIONS OF THE CONTRACT DOCUMENTS, PRECEDENCE SHALL BE GIVEN IN THE FOLLOWING ORDER FROM (A) THROUGH

A. AGREEMENT AND ANY CONTRACT MODIFICATIONS (WITH GCOC—WWS)
B. BID
C. SUPPLEMENTARY CONDITIONS
D. INSTRUCTION TO BODERS
E. GENERAL CONDITIONS OF THE CONTRACT
F. SPECIFICATIONS

1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GODG-WAS SPECIFICATIONS AND

2. NO CONNECTION TO AN EXISTING SANITARY SEWER SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF COCH-WAS. GOOD-WAYS SHALL HAVE FINAL INSPECTION AUTHORITY AND APPROVAL FOR UNDERGROUND SANITARY SEWER FACULIES.

3. THE MATERIAL FOR THE SANITARY SEWER SHALL BE SPECIFIED ON THE CONSTRUCTION DRAWNGS. THE FOLLOWING MATERIALS ARE ACCEPTABLE TO GCDC—WMS:

AWNOS. THE POLLOWING MATERIALS ARE ACCEPTABLE TO CODE-WIS:

A. 8" TO 15". PPC WITH A WINNIUM SDR OF 28 CONFORMING TO ASTM D-3034-00
CASKETED SEMER PIPE.

B. LARGET HAN 15". REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-78-03.

JOHTS SHALL BE MODIFIED TONGUE & GROOVE TYPE WITH SOLID RUBBER GASKETS
CONFORMING TO ASTM C-443-02. MINIMUM SIZE SHALL BE CLASS III, WALL B AS
RECOMBINED BY THE ENGINEER.

4, ALL SANITARY SEWER SERVICE RISERS SHALL BE 6" INTERNAL DIAMETER SOR-28 PVC OR LOVER CONFORMING TO ASTM 0-3034-00. JOINTS SHALL BE RUBBER GASGET JOINTS OR SOLVENT WELD BELL JOINTS. RISERS SHALL BE LEFT AT 8-10" DEP AT THE ROH!-OF-WAY OR EASEMENT URF, OR AS DEEP TO SERVICE BASSEMENTS. SERVICE RISERS WHEN EASEMENTS SHALL BE LEFT AT ME ADMINISTER WHEN EASEMENTS SHALL BE LEFT AT ME ADMINISTER OF THE RESOLVENTS SHALL BE LEFT AT MADRIAN SERVER OR TO THE EDGS OF THE EASEMENT, BOWLE FAVOR OF THE SHALL BY SHOULD SHALL BOT BE CONNECTED TO THE SHATRAY SEWER.

5. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASIM C-478-03 WITH RUBBER JOINTS CONFORMING TO ASIM C-443-02. ALL FINAL ELEVARIONS OF JAMENOE CASTINGS SHALL BE ASSESSED AS A SHARP OF THE STATE OF THE ST

8. ALL SANITARY SEWERS SHALL BE INSTALLED PURSUANT TO THE SANITARY SEWER STANDARD DETAILS. DEEPER SEWERS, EXCESSIVE TRUNCH WOITH, AND WHERE NOTED, THE CONTRACTOR SHALL ADJUSTED TO THE RECORDINGUEMENTS SEPCORTO.

7. WHERE MANHOLE ADJUSTMENT IS REQUIRED, THE MAXIMUM AVOUNT OF ADJUSTMENT BETWEEN THE CASTING AND THE CONE SHALL BE 9°. A JUANIMUM OF TWO ADJUSTMENT RINGS ARE ALLOWED. ONLY 3°, 4°, OR 6° CONCRETE ADJUSTMENT RINGS SHALL BE USED. THE MANHOLE SHALL BE WARPED PER SU-5 OF THE SANITARY SEMER DETAILS.

a. ALL SANITARY SEWERS 8" THROUGH 21" DIAMETER, INCLUDING SERVICE LEADS CONSTRUCTED AS PART OF WORK, SMALL LINDERGO A. LOW PRESSURE AR TEST AND AN INFILITATION TEST, IN CONFORMANCE WITH ASTIM C-924-02 OR C-959-02, PRIOR TO FINAL ACCEPTANCE. SANITARY SEMER SYSTEMS LARGER THAN 21" SMALL LINDERGO AN INFILITATION TEST. THE MANUMUL ALLOWABLE INFILITATION FOR PVC SYSTEMS SMALL BE 100 GALLONS PER INCH DIAMETER, PER MILE, PER 24 HOURS, AND CONCRETE SYSTEMS SMALL BE 100 GALLONS PER INCH DIAMETER, PER MILE.

PAR 24 HOURS, AND CONCRETE STRIEDS SHALL BE INTERNALLY PRICE INCH BURNETHER YEAR WILLS.

A. LI, FURIO CAMITARY SEWERS 8° OR LARGE SHALL BE INTERNALLY PERMED (PAR/HIT) BY THE CONTRACTOR. THE TELEVISED (PAR/HIT) BY THE CONTRACTOR SHALL BE GROW TO CODE—WAS PRICE TO REQUEST FOR THAIL HISPERCON. THE COMPANIE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING (LET/MC) THE LINE AND ASSURIGG ALL DRIT AND DEBBIS HAS BEEN ROMOTED PRIOR TO TELEVISIOD. FROM TO TELEVISIOD. FROM TO TELEVISIOD. FROM TO TELEVISIOD. FROM THE LINE MATERIAL BE PLACED IN THE MAIN FROM THE UPSTREAM MANHOLE UNTIL IT COMES OUT OF THE DOMISTICAM MANHOLE. THE TIELVISIOD REPORT SHALL UST THE DISTANCE A HOUSE LEAD IS LOCATED FROM A MANHOLE. THE TIELVISION BROWNING HAS BEEN FOR THE MAIN OR SERVICE LEADS, ALL LENGTHDINAL CRACKS, BROKEN PPE, DIPS, OR BROWNING FOR THE MAIN OR SERVICE LEADS, ALL LENGTHDINAL CRACKS, BROKEN PPE, DIPS, OR BROWNING FOR THE MAIN OR SERVICE LEADS, ALL LENGTHDINAL CRACKS, BROKEN PPE, DIPS, OR BROWNING FOR THE MAIN OF SERVICE LEADS, ALL LENGTHDINAL CRACKS, BROKEN PPE, DIPS, OR BROWNING FOR THE MAIN OF THE MAIN PROPRIES OF THE JOINT OF THE DIPS OF THE JOINT OF THE MAIN PROPRIES OF THE JOINT OF THE MAIN PROPRIES OF THE JOINT. CODE—WAS SHALL BE NOTIFIED MEED THE LIRATION TO WEST THE INTERNO OF THE JOINT CODE.

10. SANITARY MANHOLES SHALL BE PLACED CLOSEST TO PROPERTY CORNERS WHEN FEASIBLE. 11. PRIOR TO PERFORMING ANY TESTING, THE CONTRACTOR SHALL BE REQUIRED TO DO THE FOLLOWING:

LOWING:
A. COMPUCT PRELIMINARY TESTS ON THE SYSTEM.
B. PROVIDE THE RESULTS FROM THE PRELIMINARY TESTS ON THE SYSTEM.
C. PROVIDE RESULTS OF PRESILY CHECKS ON COMPACTED SAID BACKFILL FROM A
CERTIFIED TESTING AGENCY.
D. FURNISH'S COMPLETED THOS—TEAR MAINTEAMOR & GUARANTEE BOXD.
E. COMPLETE THAL ADJUSTMENTS ON ANY SANITARY SEWER STRUCTURES.

12. PRIOR TO FINAL APPROVAL, THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR:
A. THE FINAL TESTING SHALL CONSIST OF HISALA INSPECTION OF MANHOLES, TILENISHIO OF
SANITARY MAIN, LOW PRESSURE AIR TEST, AND/OR INFLITATION IEST DEPOSITION TO
ITE STE OF THE SANITARY MAIN (SEE BA ABOVE), AND PASSING AN APPROPRIATE SZED
MANDEL 30 DAYS AFTER THE MAIN HAS BEEN INSTALLED.
B. PROVIDE MATERIAL CERTIFICATES.
C. PROVIDE MATERIAL CERTIFICATES.
C. PROVIDE RECORDED COPIES OF ALL EASSMENTS FOR THE MASTER DEED REFLECTING FINAL
PROJECT RECORD DOCUMENT LOCATIONS.

1. ALL MATERIAL AND WORK SHALL COMPLY WITH THE LATEST GCOC-WWS SPECIFICATIONS AND STANDARD DETAILS.

ALL PUBLIC PRESSURE PIPE SHALL BE DUCTILE IRON. THE PIPE SHALL BE BELL AND SPIGOT OR RESTRANED JOINT FITHINGS FITED WITH A RUBBER GASKET. FITHINGS MAY BE GRAY IRON OR DUCTLE BROW MEETING CLASS JSO PSI RATING. FOR 3" OR SMALLER SANITARY SEWER FORCEMAIN, SDR-21 PVC MAY BE UTILIZED.

3. ALL PIPES, VALVES, AND FITTINGS SHALL BE POLYWHAPPED, EXCEPT IN MANHOLIS, CIRCUMFERENTIAL WARPS OF MANUFACTURER RECOMMENDED TAPE SHALL BE PLACED AT NO GREATER THAN 4" INTERVALS ALONG THE BARREL OF THE PIPE, WITH THE EXCESS FOLUED OVER THE 10P 10 TAKE OUT EXCESS SLACK, HELPING TO MINIMIZE THE SPACE BETWEEN THE POLYETHYLISME AND THE PIPE, COMPLETE THE INSTALLATION BY OVERLAPPING THE POLYETHYLISME THE WAST AT EACH SON AND SEAL ENDS PER THE MOST CURRENT VERSION OF AWAR C105/A21,6 STANDARD, WRAPPING PVO PIPE IS NOT REQUIRED.

4. WHERE SANITARY SERVICE LEADS OR OTHER UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO PROVIDE CONTINUOUS SERVICE TO PROPERTIES ALONG THE ROUTE OF CONSTRUCTION, ALL WORK, RICLURION THE REPORTING OF SANITARY SERVER SERVICE RESERVES TO ACCOUNDOATE CONSTRUCTION, OR ADJUSTMIG PRESSURE PIPE INSTALLATION TO CLEAR EXISTING SERVICES, SANITAL BE INCLUSE TO CONSTRUCTION.

5. ALL PRESSURE PIPES SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 6' FROM FINSHED GRADE, 5' CLEARANCE UNDER DRAINS, 5' CLEARANCE BLOW EXSIND BITCHES, AND/OR A MINIMUM S' BLOW THE EXISTING GRAD. THE STANDARD LAYING CONDITIONS FOR PRESSURE PIPE, SHALL BE A SO' TRENCH WOTH, OR PIPE GRADETER PLUS 12'. THE PIPE SHALL BE LATO ON MOOT CAUSS II SAND (AS) A MINIMUM OF 4' WITH RECESSES TO ACCOUNDANT PIPE BELLS OR AS SHOWN ON THE

6. ALL TRENCH EXCAVATION, UNDER OR WIEHIN THE CHE—ON-ONE INFLITENCE OF THE EXISTING OR PROPOSED PAYING, SHALL BE BACK FILLED WITH COMPACTED MIDGE CLASS II SAND (A5).

7. THE CONTRACTOR SHALL RESTRAIN ALL THRUST IN THE SYSTEM BY THE USE OF GCCC-WWS APPROVED RESTRAINED JOINTS AND THRUST BLOCKS. DURING THE INSTALLATION OF WATERWAIN, ALL HORBANTS, TEES, VERTICAL OR HORIZONTAL BEADS AND FUTURE VALVE CONNECTIONS SHALL BE RESTRAINED. THE RESTRAINT SYSTEM AND LOCATION IN THE FIELD SHALL BE DESIGNATED ON THE PLANS.

8. THE CONTRACTOR SHALL ENCASE THE PRESSURE PIPE IN CONCRETE WHERE THE VERTICAL SEPARATION BETWEEN THE SANITARY SEWER OR STORM SEWER AND THE WATERNAM IS LESS THAN 18" INCHES.

9. BATE VALVES SHALL BE RESILIENT SEATED CONFORMING TO THE MOST CURRENT VERSION OF AWMA COOP OR COTO STANDARDS. VALVES SHALL HAVE A VERRICAL, NOT-RISING STEM, AND OPEN CLOCKINGS, OR AS SPECHED BY LOCAL MUNICIPALITY HAVING JURISOPICTION.

OR RESPONDED BY LOCAL MORDIFICATION HAVING AMENDICION.

10. FIRE HYDRANTS SHALL OUTFIDERS THE ROST CURRENT VORSION OF AWA C502 STANDARD, ALL HYDRANTS SHALL BE TRAFTIC MODELS WITH BREAKMAY FLANCES, AND SHALL HAVE THE DRAIN HOLES FACTORY PULGOCED. ALL THE FIRE HYDRANT ASSEMBLES FROM THE THE PROCISION THE PROPRIATS SHALL BE RESTRAINTD BY A COOG-WHS APPROVED WETNOD. FIRE HYDRANTS SHALL BE PLACED AT PROPRIAT CORNERS AND WHITH THE RIGHT-OF-WAY WHEN POSSIBLE AND SHALL BE PLATED AT PROPRIAT CAP COLOR COODED IN ACCORDANCE WITH THE STANDARD DETAILS. FINAL ELEVATIONS AND ADJUSTMENTS TO GRADE, USING EXTENSION PIECES IF RECURRED, SHALL BE ACCOUPLINED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE. FIRE HYDRANTS SHALL HAVE A 5 1/4" WALVE OPDENION, THE HYDRANTS SHALL BE CAST ANDRAID BY THE CONTRACTOR SHALL BE CAST ANDRAID AND ADJUSTMENTS SHALL BE ASSEMBLE SHALL BE ASSEMBLED.

11. PRESSURE 7APS TO EMISTING WATERMAIN, AND CONNECTIONS TO EMISTING VALVES, SHALL BE MADE ONLY WINDER CODC-WINS OR THE LOCAL MUNICIPALITY HAWNE JURISOUTION. ALL VALVE OPENING AND COSNIG SHALL BE BY THE OPERATIONAL AUTHORITY. (ONLY A GODC-WAY A POPPON STATE ALL SHALL BE BY THE OPERATIONAL AUTHORITY. (ONLY A GODC-WAY A POPPON STATE OF PRINCIPAL SHALL BE REQUIRED AROUND ALL PRESSURE TAPS.) A CONCRET MANIFOLE SHALL BE REQUIRED AROUND ALL PRESSURE TAPS. SEE PRESSURE THE DETAILS.

12. THE CONTRACTOR SHALL HAVE THE OPTION OF PRESSURE TESTING THE WATERWAIN AGAINST THE EXISTING VALVE AT THE POINT OF BEGINNING OF THE PROJECT OR PLACING A CAP MITHIN 10° OF THE ESTING VALVE AND STUB. IF TESTING AGAINST THE EXISTING VALVE AND STUB. THE CONTRACTOR SHALL MAKE REPARS AND REPEAT THE PRESSURE TEST AGAINST THE EXISTING VALVE, AT THE CONTRACTOR SHALL MAKE REPARS AND REPEAT THE PRESSURE TEST AGAINST THE EXISTING VALVE, AT THE ONTRACTOR SHALL PERFORM THE SYSTEM REST, AND IF THE TESTS ARE SATISFACTORY TO GODG—MING, THEN THE THALL CONNECTION

13. WATERMAIN SHALL BE TESTED IN ACCORDANCE WITH MOST CURRENT VERSION OF AWWA C600 STANDARD, AND CHLORRANTEO IN ACCORDANCE WITH THE LATEST CONESSE COUNTY STANDARD SPECIFICATIONS. WATERMAIN SHALL BE TESTED TO 150 PS AS MEASURED AT THE HON-POINT IN THE WATER LINE. WATERMAIN CHLORIANION SHALL BE GESERVED AND MONITORED BY COO--WYS OR THE LOCAL MUNICIPALITY HAVING JURISDICTION. CHLORIANTO AND TESTING SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE. A LETTER OF APPROVAL FROM THE ACENCY HAVING AUTHORITY SHALL BE ISSUED PROR ITO THE WASTER BEING USED FOR HUMAN CONSUMPTION.

14, WHEN SPECIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUPPLY ALL WATER SERVICE LEADS. THEIST LEADS SHALL BE "A" COPPER AND SHALL BE A MINIMUM OF 3/4" IN DIAMETER, THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE WASHERMAN STANDARD DETAL. ALL CORPORATIONS SHALL BE BRONZE ALL APPURTERANCES THAT COME IN CONTROL WHIT PORTABLE WATER SHALL BE LEAD FREE ACCORDING TO NSF/ANS STANDARD 372.

15. THE CONTRACTOR SHALL INSTALL, AS A MINUUM, 2° CORPORATIONS ON THE PRESSURE PIPE FOR PRESSURE TESTING, CHICARINE ADDITION, AND FOR BLOW-OFF PURPOSES. THE CORPORATIONS SHALL HAME COPPER PIPE EXTENDING TO THE GROUND SURFACE. THE CONTRACTOR SHALL REJOUTE THE CORPORATIONS AND COPPER LINES UPON A SATISFACTORY TEST AND INSTALL BRONZE PLUGS PRIOR TO THAN ACCEPTANCE.

18, PRIOR TO REQUESTING ANY FIHAL PRESSURE TESTING AND GATHERING THE REQUIRED BACTERIA SAMPLES (FOR WATERMANN ONLY), THE CONTRACTOR SHALL PERFORM THE FOLLOWING HEMS:

A. COMPUTED A PRELIMINARY PRESSURE TEST ON THE SYSTEM.

B. PROVIDE THE RESALTS FROM THE PRELIMINARY TESTS ON THE SYSTEM.
C. PROVIDE PROPER CAP COLOR ON THE FIRE THISBATS! (FOR WATERMANN ONLY).

17. PRIOR TO FINAL APPROVAL THE FOLLOWING ITEMS SHALL BE COMPLETED BY THE CONTRACTOR:

A. FURNISH A COMPLETED TWO-YEAR MAINTENANCE & GUARANTEE BOWN.

B. PROWNE MATERIAL CERTIFICATES.

C. COMPLETE THAL ADJUSTURENTS OF FIRE HYDRAMIS (FOR WATERMAIN ONLY),
VALVES, AND MAINMESS.

D. PROWNE RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL, FROM A
CERTIFIED TESTING ACENTY.

E. PROWNE RECORDED COPIES OF ALL EASEMENTS FOR THE MASTER DEED
REFLICTING FINAL PROJECT RECORD DOCUMENT LOCATIONS.

DESCRIPTION NO. DATE 1 2020 EIGHTH EDITION

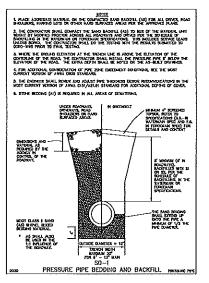
DIVISION OF WATER & WASTE SERVICES

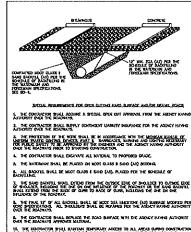




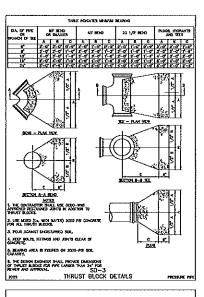


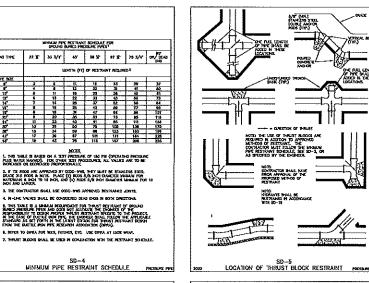
GENESEE COUNTY

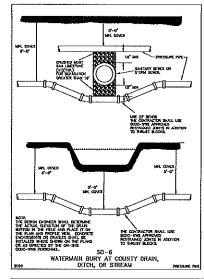


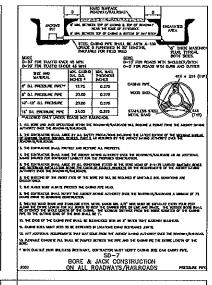


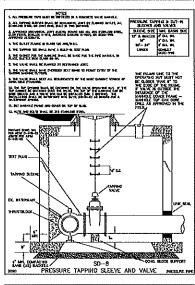
SD-2 OPEN CUTTING ROAD

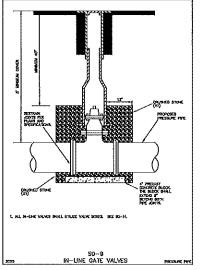


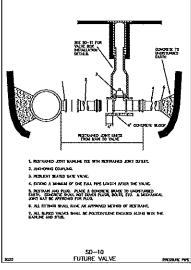


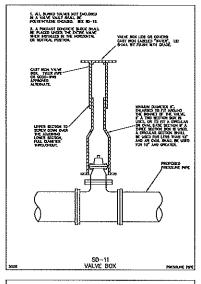


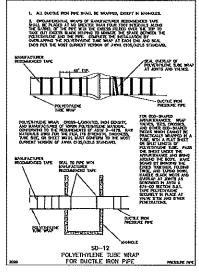


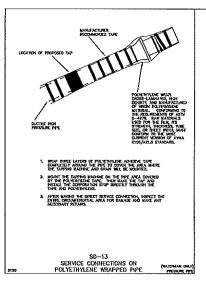


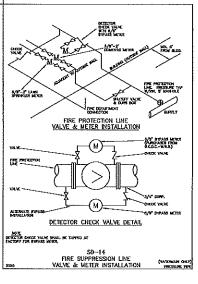


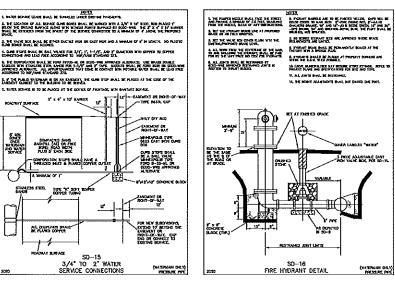


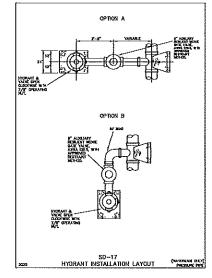


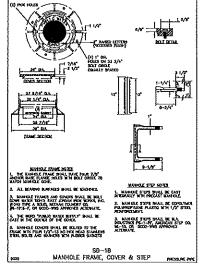








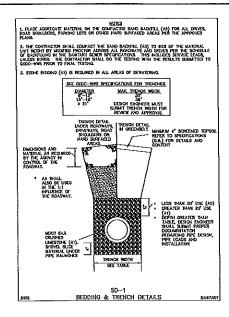


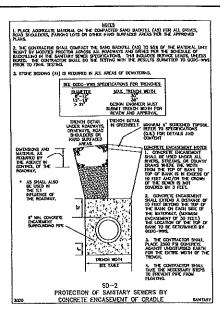


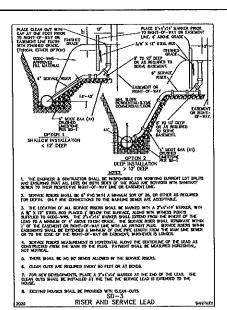
NOTE: REFER TO THE GRAND BLANC TOWNSHIP PRESSURE PIPE CONSTRUCTION STANDARD DETAILS FOR REVISIONS TO THE INDICATED DETAILS

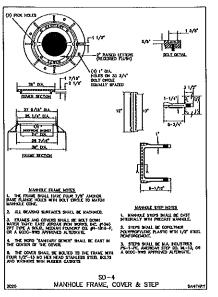


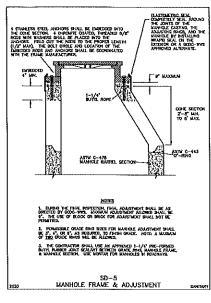


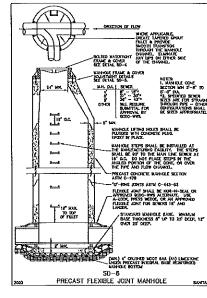


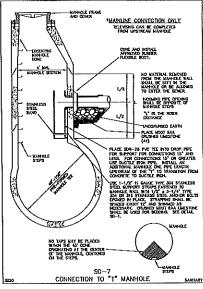


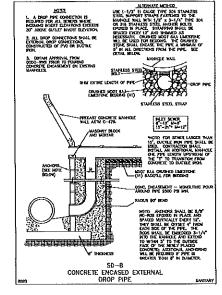


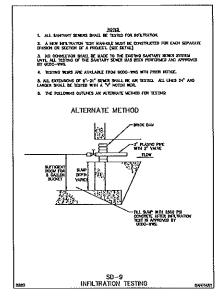


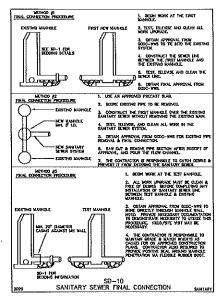


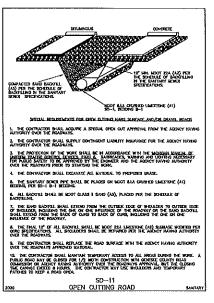


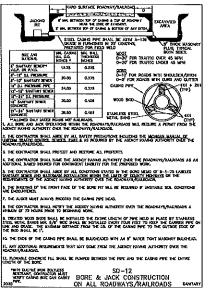


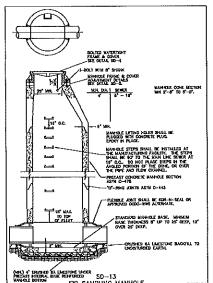


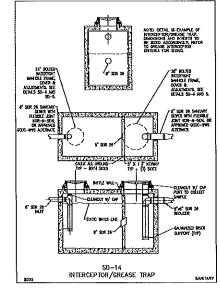


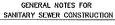




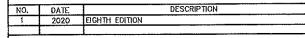




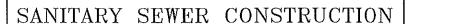




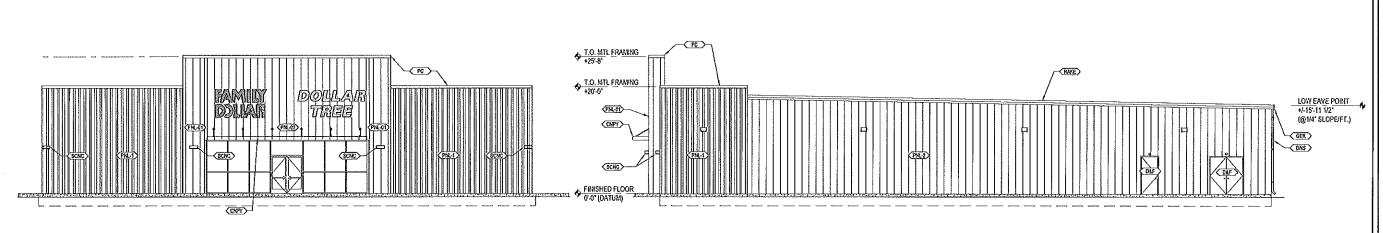
1. ALL CHAINSY SEASON SHALL BE TREAMED AND RECORDED WIN REPORT
2. ALL PON MARINE SPEC ES TO BE WASSELLED BY A 9-SOOD MACKET.
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3. ALL PON SMALLES SPEC ES SPEC ES THE STANDAR WIN MORET.
4. THE REPURB OF ERF-28 PACE PEPE 18 TO BE DONE WITH 2004-28 REPARA COMPANS. LEDSALE SOOT GOODERUS AND BUILD MEMBERS.
5. ALL PROJECTS SHALL HAVE A MANDATORY PRE-CONSTRUCTION METENS WITH GOOD-WAS.



DIVISION OF WATER & WASTE SERVICES

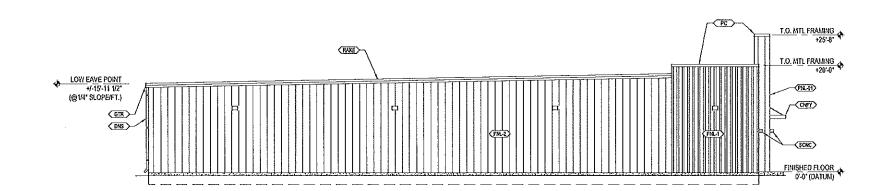




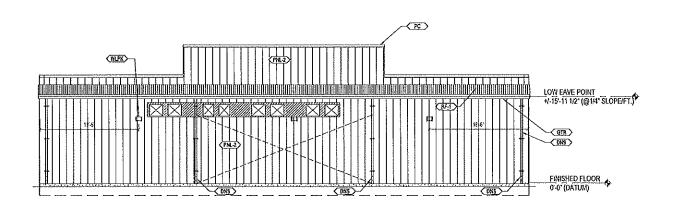


FRONT/EAST ELEVATION
SCALE (18) = 1' - 0'

# SIDE/NORTH ELEVATION SCALE 1/8" = 1'-0"



# SIDE/SOUTH ELEVATION



REAR/WEST ELEVATION

EXTERIOR FINISH SCHEDULE						
	<u> </u>		IOK LINISF	150	HEDULE	
<u>HENDIE</u>	HATON		DESCRIPTION		<u>00108</u>	
(পঞ্		12° PW-120- PANELS- 24	Ó CONCEALEO FASTENER AVETAL ! GAUGE	BOING	USHT STONE	
(খ্যুক্ত		12° FW-120- PAJE(5- 24	o conclaied fastener metal s Gauge	SICING	CHOMIX	
(FE)			DESIGNER SERIES 24 GAUGE META CONCEALED FASTEMERS (FROVID BIG MANE)		MBCI SIGNATURE 200 - WIGHT STONE	
(P.7)			2G GAUGE METAL WALL PAVEL (P BLOCKS MARIE.)	rovioed	MBC) SISHATURE 200 - VISHT STONE	
Œ		31-24 GAUGE SYSTEM	E DOUBLE LOK GALVALUVE METAL ROOF SOLAR WHITE			
(DF)		CANOPY BY 1	TENANT SHERWIN WILLIAMS SAFETY RED. FOR FD SIDE A ENY FOR DT SIDE			
(FATE)	<b></b>	50ปรามาขาย	METRY (POYON BY VETAL BUILD VS WARE) URGUS SCATURE 2000 - LIGHT STOVE			
(TC)	3,8	24 GFLYSE KIND BURLDING MANE	ROCATED VETAL COPINS (FED) ADDIBY METAL SHERMIN WILLIAMS SAFETY RED. FOR FO SIDE ENVY FOR DISCOSOR			
(05)	33	GALVANGED NE BUKDING MAVE	TAL COMSTOUT (SCIED & FAD ACIED BY )	NBOLSIGNATURE 2001- NGHT 510NB		
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(M <sup>e</sup> C)		LEO EXTEXIO: ELECTRICAL)	RWALL PAKLIGHT @ 12-0' A.F.F. (555			
(SS)	_	LEK LED FATE OF	WALL SCOPER OF STAFF, FIZE ELECTRICALL BRITAINS			
(DF)	NA.	59 <u>68</u> 0000 61	OLIOVIVETAL FRAVE		SHERMIN WILLIAMS - SW7037 BALANCED BEIGE	
·			PAINTING NOTES:  CI-W - (1) COAT OF 5-W LOXON BLOCK SURFACER A24W200 (OR EQUAL).			
			DUMPSTER ENCLOSURE- (2) COATS OF S-W CONFIEX XL ELASTOMERIC MIGH BUILD COATING, A5-400 SERIES (OR EQUAL)			
			METAL-			
			ध्रतहरू	WITH S	otorefront unitels fer metal' note above Hernin williams balanced beige Sw7037 Frinning - With (1) Coat of 5-W pro Kial Fro-Cryl Universal Frimer (B66-310 )	

Williast DESIGN GROUP, LLC

FLUSHING, MICHIGAN G DETAR

PROPOSED NEW FANT OF BUILDING FOR:

7029 W. MT. MORRIS ROAD

PRELIMINARY NOT FOR CONSTRUCTION

A.D.V.

09-01-23

PROJECT NUMBER: D23400



# Survey • Inspection • Testing • Engineering

401 Balsam, PO Box 159, Carrollton, MI 48724-0159 989-752-6500

September 5, 2023

Chris Czyzio Zoning Administrator Flushing Township 6524 N. Seymour Road Flushing, MI 48433

RE: Family Dollar

Site Plan and Special Land Use - 7029 W. Mt. Morris Road

D&M Site, Inc. (D&M) is in receipt of the August 15, 2023 ROWE Professional Services Company review. Plans have been updated (dated September 5, 2023) and narrative responses to the review are provided below:

- 1. Due to the size of the property and the need to depict off-site conditions and topographic features, the scale of the plan is needed at 1"=40'.
- 2. Additional landscaping has been placed along the southern portion of the property for screening purposes.
- 3. The building height has been added to sheet C3.0 and architectural building elevations are included with the updated plan set.
- 4. Water capacity calculations has been added to sheet C5.0.
- 5. The location map on the cover sheet has been expanded to at least 1 square mile.
- 6. A Phase 1 ESA has been completed and no areas of concern were identified.
- 7. A Hazardous Substances Reporting Form will be completed if requested by the Township.
- 8. A State/County Environmental Permits Checklist will be completed if requested by the Township.
- 9. The plans have been submitted to the Genesee County Road Commission (GCRC) and the Genesee County Drain Commission (GCDC) for approvals and permitting. GCRC had previously reviewed the driveway locations and did not have any objections.
- 10. Performance Standards have been added to sheet C3.0.
- 11. The loading/unloading zone that is indicated is twice the size of the required and the single loading space is adequate for the single-purpose use.

D&M appreciates the thorough review conducted and believes that the updated plans and responses provide above are sufficient for plan approval.

Respectfully, **D&M SITE, Inc.** 

Andy Andre, P.E.



August 15, 2023

Mr. Chris Czyzio, Zoning Administrator 6524 N. Seymour Road Flushing, MI 48433

RE: Site Plan Review and Special Land Use - 7029 W Mt. Morris Road

Dear Mr. Czyzio:

ROWE Professional Services Company is in receipt of a site plan and special land use application for a Family Dollar store located at 7029 W Mt. Morris Road. The proposed new building is to include a dollar store with on-site parking. The proposed site is a parcel which is zoned C-2 Commercial General.

## **Planning Comments:**

## Information Requirements

The following items from the list of informational requirements for a site plan in Section 36 of the Township Zoning Ordinance were not included. Note, the Planning Commission may waive any of these requirements that they find are not necessary to review this application.

- **Section 36-1902 Site Plan Scale** The site plan is scaled to 1-inch equals 40 feet instead of the required 1-inch equals 20 feet.
- Section 36-1902(f) Landscaping Planning Commission to decide if landscaping greenbelt is required.
- Section 36-1902(g) Height and Dimensions Building height is not shown on site plans.
- Section 36-1902(h) Front, Rear, and Side Elevations No elevations were provided.
- Section 36-1902(i) Water and Sanitary Services Water capacity calculations were not provided.
- Section 36-1902(I) Location Map Location map provided does not show a total 1 square mile.
- **Section 36.1902(r) Contamination** Unclear if there are areas on site which could be contaminated, such as mounds in the back of the site.
- Section 36-1902(s) Hazardous Substances Reporting Form Unclear if Hazardous Substances Reporting Form is required for this site.
- Section 36-1902(t) State/County Environmental Permits Checklist Unclear if the State/County Environmental Permits Checklist has been submitted.

Mr. Chris Czyzio, Zoning Administrator August 15, 2023 Page 2

## Zoning Compliance

The following items were identified as potential zoning ordinance compliance issues.

- Section 36-324 Landscaping and Screening The Planning Commission may require a greenbelt between the proposed use and adjacent residential uses to limit impact from additional traffic and the visual impact of the new building.
- Section 36-406 Curb Cuts and Driveways It is unclear if driveways have been approved by the county road commission.
- Section 36-416 Performance Standards No performance standards information was provided. The applicant should indicate whether performance standards will be complied with.
- Section 36-500 Off-Street Loading and Unloading One loading space was provided, two are required.
- Section 36-701 Maximum Building Height Maximum building height is not stated.

In addition to these comments, we have attached checklists which contain additional information for your use.

## **Next Steps:**

As the Planning Commission is aware, the Special Land Use and Site Plan Review request must be addressed separately. Following is a general summary of the process necessary for the Planning Commission to take action on this request.

- Address outstanding ordinance issues: The Planning Commission should determine
  which informational requirements, if any, are appropriate to be waived. The Planning
  Commission should also determine whether outstanding zoning compliance issues have
  been addressed by the applicant or if they are appropriate to be addressed via a
  conditional approval.
- 2. **Take action on the Special Land Use:** The Planning Commission must take action on the Special Land Use request according to the standards in the zoning ordinance. See the attached Special Land Use checklist for additional information.
- 3. **Take action on the Site Plan:** The Planning Commission must take action on the Site Plan Request according to the standards in the zoning ordinance. See the attached Site Plan checklist for additional information.

Regulatory and other governmental agencies with jurisdiction may have additional comments or requirements. The developer and designer remain responsible for the design, construction, and any resulting impacts of the project. If you have any questions or require additional information, please contact me at <a href="mailto:jball@rowepsc.com">jball@rowepsc.com</a> or (810) 341-7500.

Sincerely, ROWE Professional Services Company

Jason Ball, AICP Senior Planner II

Attachments



September 7, 2023

Ms. Wendy Meinberg, Flushing Township Clerk 7029 Mt Morris Road Flushing, MI 48433

RE: Site Plan Review – 7029 Mt. Morris Road – Family Dollar

Dear Ms. Meinberg:

Per your request, ROWE Professional Services Company has performed an engineering review of the above-referenced proposed site project plans. The proposed development includes a 10,500 square foot commercial building, an asphalt parking lot, a detention basin, storm sewer, sanitary sewer lead and water main connection. The proposed development is to be located at 7029 Mt. Morris Road. The township received the site plan set on July 24, 2023. The subject property is zoned C-2 Commercial.

Based on our review, we offer the following comments:

## **Engineering Comments**

- 1. Sheet C4.0: The proposed detention basin overflow is shown within contours that do not match the calculated overflow elevation.
- Sheet C4.0: Further proposed site grading may be needed around the detention basin—most notably regarding the overflow outlet.
- 3. Sheet C5.0: The outlet control structure detail notes a frame and grate rim elevation that would be incompatible with the elevation of interior structure elements as shown.
- 4. Sheet C5.0: Storm sewer calculations should be provided for individual pipe runs.
- 5. Sheet C5.0: The proposed slope for the storm sewer run from CB-100 to EX Stm 210 does not match the indicated inverts at the structures.
- 6. If applicable, any proposed easements shall be shown on the plans and developer shall verify that easements are granted to the public agency maintaining these utilities.
- 7. The developer shall obtain all permits through Michigan Department of Environment, Great Lakes, and Energy (EGLE), Genesee County Road Commission (GCRC), and Genesee County Drain Commissioner – Division of Water and Waste Services (GCDC-WWS) as necessary to complete the proposed work shown.
- 8. Plans shall be reviewed by the GCDC-WWS for approval on any proposed water main and proposed sanitary sewer.
- 9. Plans shall be reviewed by the Genesee County Drain Commission Surface Water Management (GCDC-SWM) for surface water management and onsite detention.

Ms. Wendy Meinberg, Flushing Township Clerk September 7, 2023 Page 2

Regulatory and other governmental agencies with jurisdiction may have additional comments or requirements. The developer and designer remain responsible for the design, construction, and any resulting impacts of the project. If you have any questions or require additional information, please contact me at <a href="mailto:dsanders@rowepsc.com">dsanders@rowepsc.com</a> or (810) 341-7500.

Sincerely, ROWE Professional Services Company

Deveron Q. Sanders, PE Project Engineer

R:\Projects\22C0001\Docs\Planning and Zoning Services\Planning Commission\Site Plan Review\Family Dollar\Eng Review\Family Dollar Eng Rev.docx

# Charter Township of Flushing Zoning Ordinance Compliance Checklist Family Dollar, 7029 W. Mount Morris Road

Site Plan Received: July 25, 2023

Article 2: Canaral Provinces Paguiromente		es Sit	e Plan	n Include This Information	
Article 3: General Provisions Requirements	Yes	No	N/A	Comment	
Sec. 36-304. Common Driveways. Are the proper Right-of-Way (ROW) shown on the plan (33 ft ingress/egress for not more than 2 residences)? The applicant provides there are records with the Genesee County Register of Deeds, written agreement with all lot or residences to be served by the common driveway, and staked boundary survey of driveway easement.			x	Common driveways does not apply to this site	
<b>Sec. 36-305. Private Roads.</b> Are the required information provided and the road has a minimum 66ft ROW and follow other requirements?			X	No private road is planned	
<b>Sec. 36-309. Non Conforming Use Generally.</b> Is this a non conforming use and if so it is not being enlarged, altered, or changed in area, activity, content, and has not ceased business for a period of 1 year or more?			X	The use is conforming	
<b>Sec. 36-310. Non Conforming Structure.</b> Is this a non conforming structure and if so there is no change in use, location, modification, or structure in setback requirements or other dimensional requirements?			X	The structure is conforming	
Sec. 36-314. Non Conventional Dwellings. Does any proposed dwelling comply with the prohibition against dwelling in a cellar, garage, or incompletely constructed structure after 1989?			X	No dwelling is proposed	
<b>Sec. 36-318. Temporary Dwelling Structure, Fixed, or Movable.</b> If a temporary structure is proposed for a dwelling, has it been granted the required Special Use Permit (SUP).			X	No temporary dwelling is proposed	

Article 4: Site Regulations Requirements			Does Site Plan Include This Information		
	Yes	No	N/A	Comment	
<b>Sec. 36-400. Accessory Structures.</b> Is any accessory structure being proposed that follows these requirements?			Х	No accessory structure is proposed	
<b>Sec. 36-403.</b> Lot Sizes. Is the lot not served by municipal water and sanitary sewer have a minimum lot size of 30,000 sq ft with at least 100 feet of frontage on a public road and other septic system requirements?			X	Lot is served by municipal water and sanitary	
<b>Sec. 36-404. One Family Dwelling Regulations.</b> Do any proposed the one family dwellings meet the requirements?			X	Site is not a dwelling	
<b>Sec. 36-405. Clear Vision Zone.</b> Does the development meet the requirement to have a 25ft area from the intersection of 2 public ROW with no structure, objects, or existing topography over 2 ft, besides some tree exceptions?	X			Site plan shows nearest objects with potential to block vision (trees) are 55+ ft from corner of ROW	
Sec. 36-406. Curb Cuts and Driveways. Do any proposed curb cuts or driveways have approval from the Genesee County Road Commission for curb cuts or driveways?	?			Have the driveways been approved and a permit issued by the Genesee County Road Commission?	
Sec. 36-408. Fences, Walls, and Other Protective Barriers. Do any proposed fences conform to the Flushing Township Fence Ordinance?			X	No fences are proposed	

# Flushing Township- Zoning Compliance Checklist

Article 4: Site Regulations Requirements	Do	Include This Information		
, in the first regulations requirements	Yes	No	N/A	Comment
Sec. 36-409. Incinerators and Outside Trash Containers. Do any proposed incinerators and outside trash containers follow these requirements?	x			Proposed trash dumpsters are accessible from the road and driveway without blocking traffic and are maintained in a enclosure.
<b>Sec. 36-410. Lot Grades.</b> Does the site plan include a sloping grade cause the surface drainage to flow away from the walls of such structures and does new construction it does not jeopardize existing drainage systems?	х			Grading and drainage plan slopes away from structures and is designed to not jeopardize existing systems
Sec. 36-411. Setback. Does the site plan comply with the setback requirements?	х			Setback rules are followed, and nearest residential district is 135.7' from proposed structure, well within additional setback
<b>Sec. 36-413. Storage in Front Yard.</b> Does the proposed storage, parking of any vehicle, or permanent structure outside of the front yard?			X	Not located in a residential district
<b>Sec. 36-414. Water Supply.</b> Does the proposed development have safe, adequate, and sanitary water supply?	X			Connecting to existing water and sanitary
Sec. 36-415. Private Water Supply. Does the proposed development met the requirements to have a private water supply?			Х	Public water supply
<b>Sec. 36-416. Performance Standards.</b> Does the proposed development meet performance standards for the below categories?	X			
(a) Smoke Control.	?			Please indicate the amount of smoke projected.
(b) Control of Noise.	?			Please indicate max noise projected
(c) Odors.	?			Please indicate any potential odors, if any
(d) Control of Glare or Heat.	?			Please indicate any glare or heat
(e) Control of Vibrations.	?			Please indicate any vibration potential
(f) Control of Radioactivity or Electronical Disturbance.	?			Please indicate radioactive or electric disturbance
(g) Outdoor Storage and Waste Disposal.	X			Requirements met
<b>Sec. 36-417. Mobile Home Park Development.</b> Does the proposed mobile home park meet these requirements?			X	Site is not a mobile home park
<b>Sec. 36-418. Industrial Parks.</b> Does the proposed industrial park meet these requirements?			Х	Site is not an industrial park
<b>Sec. 36-419. Farm Animals and Horses.</b> Within the RSA district, are the requirements being met?			X	Site will not store farm animals or horses

Auticle 5: Off Street Darking Beguiremente		Does Site Plan Include This Information						
Article 5: Off Street Parking Requirements	Yes No N/A			Comment				
Sec. 36-500. Off-Street Loading and Unloading. Is a				One loading space is				
loading/unloading space provided as required?	?			provided instead of two,				
				but it is double the				

Article 5: Off Street Parking Requirements		Does Site Plan Include This Information					
Article 5. On Street Farking Requirements	Yes	No	N/A	Comment			
				required size			
Sec. 36-501. Off-Street Parking Requirements. Do any proposed parking spaces meet these requirements?		X		Spaces are the correct size, not enough spaces are provided. A variance was granted at the ZBA Meeting on 7/17/2023.			

Sec. 36-501(b)(1) Off-Street Parking Requirements	Required	Provided
Parking Spaces-	8607/100 = 86 spaces (stated on C3.0)	42
Barrier Free Spaces-	2	2
Loading Spaces-	10500/10000 = 2 Loading Spaces	1 Loading Space, double of required size

## Flushing Township-Zoning Compliance Checklist

## **Article 7: District Requirements**

What is the use: Retail / Sales and service, general

Is use permitted in the district it is located in (C-2)

By Right: 

By SUP: X

Sec. 36-701 Table of District Regulations						
District Requirement	Ordinance Standard	Proposed Plot Plan				
Minimum Lot Area (sq. ft.)	22,500	5.19ac = 226,076 sq. ft.				
Minimum Lot Width (ft.)	150	450				
Minimum Lot Depth (ft.)	150	569				
Minimum Setbacks – Front (S)	50	50				
- Sides (E)	50	50				
- Sides (W)	50	50				
- Rear (N)	50	50				
Maximum Building Height (Stories)	2.5	Not Stated				
Maximum Lot Coverage (%)	N/A	N/A				
Are there any required conditions for this district?	s N/A					

Article 18: Special Use Permits Requirements	Does Site Plan Include This Information			
Sec. 36-1804	Yes	Comment		

# **Charter Township of Flushing Site Plan Standards for Approval**

Family Dollar, 7029 W. Mount Morris Road

Site Plan Date: July 25, 2023

Sec. 20-1907 Standards for Approval					
			Doe	es Site M	leet
	Standards			quireme	nts
			Yes	No	N/A
(a) Off Site Improvements. No off sit					
site approval, unless the applicant has		vements as			
documented by their site plan drawing		tification for			
improvements will create unacceptable denial of a site plan.	dilication for				
COMMENTS/FINDINGS OF FACT:					
No off-site improvements are provided to the state of the state o	proposed				
Applicant's Comments:	Planning Consultant's Comments: N/A	Planning Con	nmissioi	n Comm	nents:
(b) District Regulations. The project regarding use, dimensions, off street		•			
COMMENTS/FINDINGS OF FACT:					
Retail Use is permitted under s	·				
standards and loading zones.	e requirements that need further of				
Applicant's Comments:	Planning Consultant's Comments:	Planning Con	nmissioi	n Comn	nents:
Applicant may be able to provide					
	more information regarding these outstanding requirements.				
(c) Special Use Standards. If the site					
proposed Special Land Use Permit, a also be satisfied.					
COMMENTS/FINDINGS OF FACT:					
<ul> <li>A few minor outstanding issue</li> </ul>	s remain relative to zoning complianc	e.			
<ul> <li>The Planning Commission ma</li> </ul>	y determine that a greenbelt is neces	sary.			
Applicant's Comments:	Planning Consultant's Comments: Overall, the site is largely in	Planning Con	nmissioi	n Comm	nents:
	compliance with special use standards.				
(d) Transportation. Transportation fa					
provide safe and efficient access to the					
shall be given to roads rights of way, surface type, number of lanes, driveway design					
and location, vehicular circulation within the parcel, parking, snow removal from					
transportation facilities, pedestrian circulation, emergency vehicle access, and					
accessibility for handicapped persons. When the adequacy of public road service to the parcel is questioned, the input of the Genesee County Road Commission shall be					
sought. All parking areas shall be adequately screened to minimize headlight glare from					
shining onto adjacent property.	, , <u>.</u>	J			
COMMENTS/FINDINGS OF FACT:					
It is not clear whether the appl	icant requires additional approvals fro	m the County I	Road Co	ommiss	ion.
T					

• The roadways appear to be adequate to support the proposed use.

	Standards			es Site N quireme	
	Starradias		Yes	No	N/A
Applicant's Comments:	Planning Consultant's Comments: The Planning Commission should determine whether a county road commission permit will be required and if approval should be conditioned upon that review.	nmissior	n Comr	nents	
provide these services on site. Inatural gas, must be sufficient to any public utility service to the sprovider shall be sought.  COMMENTS/FINDINGS OF FA  Capacity of public sanita	proposed use or sufficient provisions shall be Private utility services, including electricity, so serve the needs of the project. When the site is in question, the input of the appropria ACT:  ary sewer has been calculated and will not be that not been calculated but would not app	telephone and adequacy of te public utility nave an effect.	cantly ir	mpacte	d.
Utility permits will be acc Applicant's Comments:	quired and approved prior to construction.  Planning Consultant's Comments:  Overall, the site is largely in compliance with utility standards.	Planning Com	nmissior	n Comr	nents
regulations. Also, current fire deserve the project or sufficient projection number and capacity of fire suppression needs.  COMMENTS/FINDINGS OF FA		e sufficient to rvices. Finally,			
No fire protection inform Applicant's Comments:	Planning Consultant's Comments: It may be helpful to have the fire department review the plans to confirm compliance.	Planning Com	nmissior	n Comr	nents

ne project and adjoining properties f, absorb noise, deflect wind curre lth, safety or appearance of the ne of other features that are introduc nent the site's surrounding enviror ct. The site will be developed with ct might have, such as noise, smo	s or help to ents, reduce eighborhood. eed into the nment and the goal of		s Site M quireme <b>No</b>	
ne project and adjoining properties f, absorb noise, deflect wind curre lth, safety or appearance of the ne of other features that are introduc nent the site's surrounding enviror ct. The site will be developed with ct might have, such as noise, smo	s or help to ents, reduce eighborhood. eed into the nment and the goal of	Yes	No	N/A
ne project and adjoining properties f, absorb noise, deflect wind curre lth, safety or appearance of the ne of other features that are introduc nent the site's surrounding enviror ct. The site will be developed with ct might have, such as noise, smo	s or help to ents, reduce eighborhood. eed into the nment and the goal of			
<ul> <li>(g) Environment. Natural features of the landscape should be retained whenever practicable to serve as a buffer between the project and adjoining properties or help to control erosion, contain storm water runoff, absorb noise, deflect wind currents, reduce glare or otherwise benefit the general health, safety or appearance of the neighborhood. Any buildings, fences, lighting, vegetation of other features that are introduced into the landscape should be designed to complement the site's surrounding environment and enhance the positive features of the project. The site will be developed with the goal of controlling any negative impacts the project might have, such as noise, smoke, vibration, odor, glare, heat or dust so that they will not be discernible beyond the property boundaries In addition: <ol> <li>Sites at which hazardous substances are stored, used or generated shall be designed to prevent spills and discharges to the air, surface of the ground, ground water, lakes, streams, rivers or wetlands.</li> <li>Secondary containment for above ground areas where hazardous substances are stored or used shall be provided. Secondary containment shall be sufficient to store the substance for the maximum anticipated period of time necessary for the recovery of any released substance.</li> <li>General purpose floor drains shall only be allowed if they are approved by the responsible agency for connection to a public sewer system, an onsite closed holding tank (not a septic system), or regulated through a State of Michigan ground water discharge permit.</li> <li>State and federal agency requirements for storage, spill prevention, record keeping, emergency response, transport and disposal of hazardous substances shall be met. No discharges to ground water, including direct and indirect discharges, shall be allowed without required permits and approvals.</li> </ol> </li> <li>COMMENTS/FINDINGS OF FACT:</li> </ul>				
been studied but are not expected	to have an imp	pact bey	ond pr/	operty
boundaries.  Applicant's Comments:  Overall, the site is largely in compliance with standards. The Planning Commission may determine whether impact studies will be required and if approval should be conditioned upon that review.				
The site plan should be generally				
	•			
e outstanding issues identified ove should be addressed to et ordinance intent.	·			
	charges to the air, surface of the green or wetlands. ground areas where hazardous stad. Secondary containment shall be imum anticipated period of time notance. only be allowed if they are approvious to a public sewer system, an onsion regulated through a State of Montanest for storage, spill prevention, insport and disposal of hazardous und water, including direct and incut required permits and approvals direct incomments are proposed. In the site is largely in insport and disposal of hazardous und water, including direct and incut required permits and approvals direct in the site is largely in inspliance with standards. The anning Commission may termine whether impact studies I be required and if approval to ould be conditioned upon that wiew.  The site plan should be generally sof this ordinance and with the purisal content.  The site plan should be generally as of this ordinance and with the purisal content.  The site plan should be generally as of this ordinance and with the purisal content.	charges to the air, surface of the ground, are so recorded. Secondary containment shall be sufficient imum anticipated period of time necessary for tance.  only be allowed if they are approved by the to a public sewer system, an onsite closed or regulated through a State of Michigan tents for storage, spill prevention, record ansport and disposal of hazardous substances und water, including direct and indirect ult required permits and approvals.  The site is largely in appliance with standards. The anning Commission may termine whether impact studies if the required and if approval to be required and if approval to be required and if approval to be required and if approval to this ordinance and with the purpose of the is located.  Planning Commission the is located.  Planning Commission the approval to this ordinance and with the purpose of the is located.  Planning Commission the purpose of the is located.	charges to the air, surface of the ground, are or wetlands. ground areas where hazardous substances and. Secondary containment shall be sufficient imum anticipated period of time necessary for tance.  only be allowed if they are approved by the to a public sewer system, an onsite closed or regulated through a State of Michigan ments for storage, spill prevention, record ansport and disposal of hazardous substances und water, including direct and indirect ut required permits and approvals.  The site is largely in mention and the site is largely in mention of the conditioned upon that view.  The site plan should be generally so of this ordinance and with the purpose of the is located.  Planning Commission and with the purpose of the is located.  Planning Commission and with the purpose of the is located.  Planning Commission and with the purpose of the is located.  Planning Commission and with the purpose of the is located.	charges to the air, surface of the ground, as or wetlands. Ground areas where hazardous substances and. Secondary containment shall be sufficient imum anticipated period of time necessary for stance.  In only be allowed if they are approved by the to a public sewer system, an onsite closed or regulated through a State of Michigan state of michigan and disposal of hazardous substances und water, including direct and indirect unt required permits and approvals.  In on the standards of the standards of the standards of the standards. The anning Consultant's Comments:  In the site is largely in mpliance with standards. The anning Commission may termine whether impact studies and if approval ould be conditioned upon that wiew.  The site plan should be generally so of this ordinance and with the purpose of the is located.  Planning Commission Commissio

# **Charter Township of Flushing** Special Land Use Standards for Approval Family Dollar, 7029 W. Mount Morris Road

Site Plan Date: July 25, 2023

	Sec. 20-1802 Standards for App	roval			
	Standards		Re	leet nts	
			Yes	No	N/A
• •	use shall be consistent with and pron	note the			
intent and purpose of this	-				
COMMENTS/FINDINGS O	F FACT:				
	permitted as a special land use in the zo				
Applicant's Comments: N/A	Planning Consultant Comments: The use is permitted as a special land use and the current use of the site is a vacant lot. The construction of retail on this lot would support the township's goal of future commercial development.	Planning Con	nmissioi	n Comn	nents:
authorized shall be comp	e will ensure that the land use or activatible with adjacent land uses, the nativatives of public services and facilities.	atural			
COMMENTS/FINDINGS O					
<ul> <li>Capacity of public impacted.</li> <li>The property is adjusted are proposed to ling properties.</li> </ul>	canitary sewer has been calculated and water has not been calculated, but water to residential properties to the Water impact from the new commercial denission may require a greenbelt be plant.	ould not appe est and South, evelopment or	ar to be no fend nadjace	ces or l ent resi	ouffers dentia
per Section 36-324.	· · · · · · · · · · · · · · · · · · ·	ca to banci aaji	dociniro	Sideritie	ai u500
Applicant's Comments:	Planning Consultant Comments: Use appears to meet this standard, however the Planning Commission may determine that a greenbelt is necessary to buffer adjacent residential uses/districts.	Planning Con	nmissioi	n Comn	nents:
(c) The special land use s and welfare of the townsl	sought is consistent with the public hip.	ealth, safety,			
COMMENTS/FINDINGS O	F FACT:				
Mt. Morris Road. Th	isks posed by the use would relate to to e applicant is proposing two separate dr not provided confirmation of approva	iveways that wi	II conne	ct both	roads
Applicants Comments:	Planning Consultant Comments: The use does not clearly present dangers to public health, safety,	Planning Con	nmissioi	n Comn	nents:

	and welfare, but confirmation of	
	driveway placement and approval	
	from the county road commission is	
	necessary.	
(d) A request for approval of	of the land use or activity, which is	in
compliance with the standa	rds stated in this chapter, the cond	ditions
imposed pursuant to this cl	hapter, and other applicable ordina	nces and
state and federal statutes s	hall be approved by the commission	on.
COMMENTS/FINDINGS OF I	FACT:	
A few minor outstanding	ng issues remain relative to zoning co	ompliance.
The Planning Commis	sion may determine that a greenbelt	is necessary.
Applicants Comments:	Planning Consultant Comments:	Planning Commission Comments:
N/A	Overall the site is largely in	
	compliance with ordinance	
	standards.	

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# **Charter Township of Flushing Site Plan Information Checklist**

Family Dollar, 7029 W. Mount Morris Road

Site Plan Received Date: July 25, 2023

Sec. 36-1902 Site Plan R	eview	Requ	ireme	ents
Required Information		Does S	Site Plai	n Include This Information
,	Yes	No	N/A	Comment
A site plan drawn to a scale of 1 inch equals 20 feet.		Х		Site plan is scaled to 1 inch equals 40 feet
(a) Statistical data including: number of dwelling units, size of dwelling units (e.g., one-bedroom, two-bedroom, and three-bedroom), if any, and total gross acreage involved. In all other cases, the location, type, horsepower, fuel, dimensions and other data of all machinery to be used on the proposed site.			X	No dwelling units or machinery is planed to be used on the site.
(b) The location of principal and accessory buildings on the lot and the relationship of each structure to the other.	X			Principal building is shown with relation to the site, no accessory buildings are planned.
(c) Vehicular traffic and pedestrian circulation features within and without the site.	X			Vehicular and pedestrian circulation features are shown
(d) The location and dimensions of all off-street parking areas including maneuvering lanes, service lanes, off-street loading spaces and other service areas within the development.	X			Maneuvering lanes are 45'
(e) The location, dimensions and proposed use of all onsite recreation areas, if any.			X	No on-site recreation areas are proposed.
(f) The location of all proposed landscaping, fences or walls.	X			Landscaping trees are shown, no other landscaping is shown. Is other landscaping or fences required?
(g) The height and dimensions of all structures.		Χ		Building height not shown.
(h) Front, rear and side elevations of any typical structure proposed for development.		Х		Front, rear, and side elevations were not submitted for the main building.
(i) The location and capacity of private or public water and sanitary services and solid waste disposal facilities servicing the site.	?			Locations and capacity calculations are shown for sanitary on sheet C5.0, but only location is shown for water. No water capacity calculations are shown.
(j) The locations, dimensions and lighting of all signs.		X		Location shown in C3.0 with no lighting and no dimensions Will the sign be lit?
(k) The location, intensity and orientation of all lighting.	Х			Does the sign have lighting? If not, lighting is completely shown on C3.0.
(I) A location map indicating the relationship of the site to the surrounding land use for an area of not less than 1 square mile.		X		Largest map view (on cover) shows approximately ½ sq mile

Sec. 36-1902 Site Plan Review Requirements							
Required Information		Does S	Site Pla	n Include This Information			
r toganou mormation	Yes	No	N/A	Comment			
(m) A physiographic map showing the natural topography, the soil types, and suitability for intended use, natural features such as wood lots, lakes, drains, streams, and ditches, and surface coverage data (such as paved areas and structures) related to storm water runoff characteristics.	X			Topography map is shown on Sheet C2.0, and soil type and suitability are shown on Sheet C4.1. There does not appear to be any wood lots, lakes, drains, streams, or unlabeled ditches.			
(n) The site plan shall be sealed by a professional engineer, architect, landscape architect or community planner.	X			Site plan is sealed by a licensed professional engineer.			
(o) Location and size of interior and exterior areas and structures to be used for storage use, loading/unloading, recycling, or disposal of hazardous substances.			X	No hazardous substances will be stored, loaded, recycled, or disposed of			
(p) Location of all underground and above ground storage tanks for such uses as fuel storage, waste oil holding tanks, chemical storage, hazardous waste storage, collection of contaminated storm water or wash water, and all similar uses.			X	There is no necessity for underground or above ground storage for any of the listed items.			
(q) Location of exterior drains, dry wells, catch basins, retention/detention areas, sumps and other facilities designed to collect, store to transport storm water or waste water. The point of discharge for all drains and pipes shall be specified on the site plan.	X			Wastewater information is shown on Sheet 5.0, and all information is provided. Proposed storm will discharge into existing storm and overflow channel.			
(r) Delineation of areas on the site which are known or suspected to be contaminated, together with a report on the status of site cleanup.	?			No suspected contaminated areas are shown, are there areas that could be contaminated on the site, such as the mounds in the back of the site?			
(s) Submission of the "Hazardous Substances Reporting Form for Site Plan Review."			?	Does this site require the submission of the "Hazardous Substances Reporting Form for Site Plan Review."?			
(t) Submission of the "State/County Environmental Permits Checklist."	?			Has this checklist been submitted?			
(u) 100 year floodplain.	Х			This site sits in an area outside of minimal flood hazard, according to Sheet C1.0			
(v) Topographic lines at 1' intervals.	Х			Topographic lines are all at 1' intervals on the site plan			
(w) Proposed and existing utilities including water, sewer, storm sewer and lighting.	X			All proposed and existing utilities shown on Sheet C5.0. Lighting plan shown on Sheet C3.0			
(x) Driveway location.	X			Two driveways shown and dimensioned on Sheet C3.0			

Sec. 36-1902 Site Plan Review Requirements				
Required Information	Does Site Plan Include This Information			
	Yes	No	N/A	Comment
(y) Current zoning of parcel and if the proposed use is not permitted in the district the parcel is zoned, an indication as to the proposed zoning.	X			Parcel is zoned C-2. The proposed use of the parcel (retail) is allowed as a SLU, which an application has been submitted
(z) Statement on the plan as to whether wetlands exist on the site.			Х	Based on EGLE Viewer, no wetlands exist on the site.

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