#### GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING MONDAY, JULY 11, 2016 6:30 P.M. AGENDA

#### **CALL TO ORDER:**

#### PLEDGE OF ALLEGIANCE:

#### **APPROVAL OF AGENDA:**

**CALL TO THE PUBLIC:** (Note: The Board reserves the right to not begin new business after 10:00 p.m.)

#### **OLD BUSINESS:**

**OPEN PUBLIC HEARING #1...** Review of special use applications, impact assessment and site plan for proposed 9,200 square feet contractor's office, warehouse and storage yard. Special land use approvals are requested for outdoor storage, storage of hazardous materials, and grading activities within 25-foot natural features setback. The property is located on the east side of Victory Drive, south of Grand River Avenue on vacant parcel# 11-05-303-025. The request is petitioned by Seaside Seawalls.

#### <u>Planning Commission disposition of petition:</u>

- A. Recommendation of Special Use Application Outdoor Storage
- B. Recommendation of Special Use Application Storage of hazardous materials
- C. Recommendation of Special Use Application Grading within natural features setback
- D. Recommendation of Impact Assessment (6-22-16)
- E. Recommendation of Site Plan (6-22-16)

#### **NEW BUSINESS:**

**OPEN PUBLIC HEARING #2...**Review of a rezoning application and impact assessment to rezone approximately 64 acres from RR and PRF to CE for the following parcels: #11-12-100-007, 008, 010, 011, 012, 013. The parcels are located on the east side of Euler Road south of McClements Road in Brighton. The request is petitioned by Joyce Oliveto.

#### Planning Commission disposition of petition:

- A. Recommendation of Rezoning
- B. Recommendation of Impact Assessment (6-22-16)

**OPEN PUBLIC HEARING #3...**Review of an impact assessment and site plan for a proposed parking lot expansion and carport structure located at the rear of the Livingston County complex located at 2300 E. Grand River, Howell. The request is petitioned by Livingston County Building Department.

#### Planning Commission disposition of petition:

- A. Recommendation of Impact Assessment (6-1-16)
- B. Disposition of Site Plan (6-22-16)

**OPEN PUBLIC HEARING #4...**Review of an impact assessment and site plan for a parking lot addition for new vehicle parking area at the existing Bob Maxey Ford located at 2798 E. Grand River, Howell. The request is petitioned by SRM Associates, LLC.

Planning Commission disposition of petition:

- A. Recommendation of Impact Assessment (6-22-16)
- B. Disposition of Site Plan (6-22-16)

**OPEN PUBLIC HEARING #5**...Review of an impact assessment and site plan for the proposed construction of a new 9,600 sq.ft. showroom and an 11,750 sq.ft. storage building for the existing Wilson Marine located at 5866 Grand River Howell. The request is petitioned by Wilson Marine.

<u>Planning Commission disposition of petition:</u>

- A. Recommendation of Impact Assessment (dated 6-1-16, received 6-27-16)
- B. Disposition of Site Plan (6-27-16)

**OPEN PUBLIC HEARING #6...**Review of sketch plan for a proposed 1,200 sq. ft. storage building for the existing Brighton Church of Nazarene located at 7669 Brighton Road, Brighton. The request is petitioned by Brighton Nazarene Church.

Planning Commission disposition of petition:

A. Disposition of Sketch Plan (6-22-16)

#### **ADMINISTRATIVE BUSINESS:**

- Staff Report
- Approval of June 13, 2016 Planning Commission meeting minutes
- Member discussion
- Adjournment



## **GENOA CHARTER TOWNSHIP Application for Site Plan Review**

#### TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC
If applicant is not the owner, a letter of Authorization from Property Owner is needed.
OWNER'S NAME & ADDRESS: Aaron Wallace, 9868 East Grand River, Suites 110-225, Brighton, MI 48116
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025
APPLICANT PHONE: ( 248 ) 207-1984 OWNER PHONE: ( 248 ) 207-1984
OWNER EMAIL: AARON@SEASIDESEAWALLS.COM
LOCATION AND BRIEF DESCRIPTION OF SITE:  The site is located on the east side of Vicotry Drive, approximately
1,625 feet southwest of the E. Grand River Ave. intersection. The property has a total area of 5.85 AC and is currently undeveloped
The subject property and adjacent properties are all zoned within the Industrial district, with the subject property having
approximately 660 feet of frontage along Victory Dr.
BRIEF STATEMENT OF PROPOSED USE:  The proposed use for the property is to store and maintain
construction equipment.
THE FOLLOWING BUILDINGS ARE PROPOSED: Seaside Seawalls, LLC - 9,200 SF
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY:
ADDRESS:  AARON WALLACE, 9868 E. GRAND RIVER, SUITES 110-225, BRIGHTON, MI 48116

Contact Information - Review Letters and Correspondence shall be forwarded to the following:				
I.) Brent LaVanway	of Boss Engineering  Business Affiliation	at brentl@bosseng.com  E-mail Address		
FEE EXCEEDANCE AGREEMENT				

# As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy. SIGNATURE: DATE: 4-24-/6 PRINT NAME: AARON WALLACE PHONE: (248) 207-1984 ADDRESS: 9868 East Grand River, Suites 110-225, Brighton, MI 48116

Page 2 of 9



### **GENOA CHARTER TOWNSHIP Special Land Use Application**

GENOA TOWNSHIP
MAY 1 9 2016
RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC				
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.				
APPLICANT PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com				
OWNER NAME & ADDRESS: Aaron Wallace, 9868 E. Grand River, Suites 110-225, Brighton, MI 48116				
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025				
OWNER PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com				
Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection				
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all				
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.				
Proposed Use: The proposed use for the property is to store and maintain construction equipment.				
Special Use: Fuel Storage Tanks				
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):				
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.				
The special land use application is for fuel storage tanks. The site will contain two 300 gallon fuel tanks on a concrete pad				
with a built in containment curb. The use is consistant with the zoning district.				
b. Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.				
The proposed tanks will be designed and constructed to comply with all standards and regulations of the Genoa Township				
ordinance, section 13.07 and will be in accordance with state and federal requirements.				
c. How will the use be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools? The site will be able to be served adequately by all public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the				
existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.				

Stormwater management will meet all local, county and state stormwater and erosion control requirements.

environment,	nvolve any uses, activities, p public health, safety, or well , odors, glare, or other such	fare by reason of ex	xcessive produc	tion of traffic noise vi	al bration,
No, the site will not	have any potentially determenta	ıl uses, activities, proc	esses, or materia	ls to either the natural envi	iomment.
	ty, or welfare. Fuel storage will b				
e. Does the use I	have specific criteria as listed how the criteria are met.	d in the Zoning Or	dinance (section	ns 3.03.02, 7.02.02, & 8	3.02.02)?
No, the special us	e does not have specific criteria	as listed in sextion 8.	02.02 of the zonin	g ordinance. The fuel tanks	s however wil
comply with all sta	ndards set forth in section 13.07	of the zoning ordinar	ice. The tanks will	be 300 gallon capacity, lo	cated more
	my occupied building or lot line a				
THIS APPLICA' I AGREE TO DI BUILDINGS, ST ACCORDANCE ORDINANCE, A THIS PERMIT.  THE UNDERSIG	TIFY THAT ALL INFORM TION ARE TRUE AND AC ESIGN, CONSTRUCT AND IRUCTURES, AND FACIL WITH THE STATED REQ AND SUCH ADDITIONAL GNED  Aaron Wa OF THE PROPERTY OF PR	CCURATE TO THE OPERATE, AND JITIES WHICH AR QUIREMENTS OF LIMITS AND SAI	E BEST OF MY MAINTAIN T RE GOVERNEI THE GENOA FEGUARDS A	Y KNOWLEDGE AND THESE PREMISES AND BY THIS PERMIT IN TOWNSHIP ZONING S MAY BE MADE A I	BELIEF. D THE N PART OF
APPLICATION	FOR THIS SPECIAL LAND	D USE PERMIT.	(100 )	DIAND WINES	
BY:					
					<del></del>
Contact Information	on - Review Letters and Corr	respondence shall t	pe forwarded to	the following:	
Brent LaVanway	of Boss Engine	enina	at RDEN	ITI @BOSSENC COM	il
Name	Business Af		Email	ITL@BOSSENG.COM	
	FEE EXCER	EDANCE AGREE	MENT		
<ol> <li>Planning Committee equired to pay the appropriate to payment will be required.</li> </ol>	plan review fee schedule, al ission meeting. If additional actual incurred costs for the a uired concurrent with submit and full understanding of this	Il site plans are allo reviews or meeting additional reviews. ttal to the Townshi	cated two (2) cogs are necessary	, the applicant will be	ne
IGNATURE:	and		DATE:	5-19-16	
RINT NAME:	Auron Wallace		248-207		

# SENOA Stawnship

## **GENOA CHARTER TOWNSHIP Special Land Use Application**

MAY 1 9 2016

RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.
APPLICANT PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com
OWNER NAME & ADDRESS: Aaron Wallace, 9868 E. Grand River, Suites 110-225, Brighton, MI 48116
SITE ADDRESS: Victory Drive, Howell, MI 48843 PARCEL #(s): 4711-05-303-025
OWNER PHONE: ( 248 ) 207-1984 EMAIL: aaron@seasideseawalls.com
Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.
Proposed Use: The proposed use for the property is to store and maintain construction equipment.
Special Use: Grading within 25-feet of a wetland
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.
The special land use application is for grading within 25-feet of a wetland. No permanent structure will be within the required 25' wetla setback. The minimal grading being done within this 25' setback will not negatively impact the wetland and is to ensure proper
stormwater management with the use of sedimentation basins. The sedimentation basins will allow for stormwater to be treated
and outlet into existing wetlands at a controlled rate. The use will confrom with all requirements set forth by Genoa Township.
<ul> <li>Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.</li> </ul>
The proposed grading will be designed and constructed to comply with all grading standards and regulations of Genoa Township.
The site is 5.85 acres, however the majority of this acerage consists of wetlands which limits upland area.
c. How will the use be served adequately by essential public facilities and services such as highways, streets,

police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools?

The site will be able to be served adequately by all essential public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.

Stormwater management will meet all local, county and state stormwater and erosion control requirements.

environment, public	any uses, activities, processes, or mealth, safety, or welfare by reason, glare, or other such nuisance? If s	of excessive production of tr	affic, noise, vibration,
No, the site will not have ar	y potentially determental uses, activities	s, processes, or materials to either	r the natural enviornment,
public health, safety, or we	lfare. A special use permit for fuel storage	ge has been applied for.	
e. Does the use have sp If so, describe how t	pecific criteria as listed in the Zonin he criteria are met.	g Ordinance (sections 3.03.02	2, 7.02.02, & 8.02.02)?
The special use grading do	es not have specific criteria as listed in	section 8.02.02 of the zoning ordi	nance. However the grading
follow all standards and reg	gulations set forth by Genoa Township. (	Once the setback area is graded i	t will be seeded and mulche
and remain lawn.			
THIS APPLICATION I I AGREE TO DESIGN BUILDINGS, STRUCT ACCORDANCE WITH	THAT ALL INFORMATION AND ARE TRUE AND ACCURATE TO, CONSTRUCT AND OPERATE, TURES, AND FACILITIES WHICH THE STATED REQUIREMENT UCH ADDITIONAL LIMITS ANI	O THE BEST OF MY KNOW AND MAINTAIN THESE P TH ARE GOVERNED BY TH S OF THE GENOA TOWNS	LEDGE AND BELIEF. REMISES AND THE REMISES FERMIT IN REMISES FOR THE REMISES FO
FREE OWNER OF TH APPLICATION FOR 1	Aaron Wallace E PROPERTY OF PROPERTIES I THIS SPECIAL LAND USE PERM	DESCRIBED ABOVE AND 11T.	
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ADDRESS:			
Contact Information - Re	eview Letters and Correspondence s	shall be forwarded to the follo	owing:
Brent LaVanway	of Boss Engineering	at BRENTL@BOS	SSENG.COM
Name	Business Affiliation	Email	
	FEE EXCEEDANCE AG	GREEMENT	
(1) Planning Commission required to pay the actual payment will be required of	review fee schedule, all site plans ar meeting. If additional reviews or m incurred costs for the additional rev concurrent with submittal to the Tov all understanding of this policy.	neetings are necessary, the apviews. If applicable, additiona	plicant will be il review fee
SIGNATURE:	2nl	DATE:	1-16
PRINT NAME: A	run Wallace PHO	ONE: <u>248-207-1984</u>	<u>/</u>

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#### **GENOA CHARTER TOWNSHIP Special Land Use Application**

GENOA TOWNSHIP MAY 19 2010 RECEIVED

This application must be accompanied by a site plan review application and the associated submittal requirements. (The Zoning Official may allow a less detailed sketch plan for a change in use.)

APPLICANT NAME & ADDRESS: Seaside Seawalls, LLC
Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.
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Location and brief description of site and surroundings:  The site is located on the east side of Victory Drive, approximately 1,625 feet southwest of the E. Grand River Ave. intersection
The property has a total area of 5.85 acres and is currently undeveloped. The subject property and adjacent properties are all
zoned within the industrial district, with the subject property having approximately 660 feet of frontage along Victory Drive.
Proposed Use: The proposed use for the property is to store and maintain construction equipment.
Special Use: Outdoor Storage
Describe how your request meets the Zoning Ordinance General Review Standards (section 19.03):
a. Describe how the use will be compatible and in accordance with the goals, objectives, and policies of the Genoa Township Comprehensive Plan and subarea plans, and will promote the Statement of Purpose of the zoning district in which the use is proposed.
The outdoor storage use will comply with all requirements set forth by Genoa Township. This is a common use within the
industrial zoning district.
<ul> <li>Describe how the use will be designed, constructed, operated, and maintained to be compatible with, and not significantly alter, the existing or intended character of the general vicinity.</li> </ul>

The proposed use of the site is for storage purposes, with hours of operation between 7am and 7pm. The subject site confroms with current surrounding land being zoned in the industrial district. The increase in light, noise or air pollution will be minimal with what is typically associated with an industrial development.

c. How will the use be served adequately by essential public facilities and services such as highways, streets, police and fire protection, drainage structures, water and sewage facilities, refuse disposal and schools? The site will be able to be served adequately by all essential public facilities and services. The subject property will be located and accessible from Victory Drive for police and fire protection. The site will be service by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well. Stormwater management will meet all local, county and state stormwater and erosion control requirements.

d. Will the use involve any uses, activities, processes, or materials potentially detrimental to the natural environment, public health, safety, or welfare by reason of excessive production of traffic, noise, vibration, smoke, fumes, odors, glare, or other such nuisance? If so, how will the impacts be mitigated?
No, the site will not have any potentially determental uses, activities, processes, or materials to either the natural enviornment,
public health, safety, or welfare. A special use permit for fuel storage has been applied for.
e. Does the use have specific criteria as listed in the Zoning Ordinance (sections 3.03.02, 7.02.02, & 8.02.02)? If so, describe how the criteria are met.
The special use of outdoor storage for the site will comply with all of the criteria listed in 8.02.02 section "b".
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEI I AGREE TO DESIGN, CONSTRUCT AND OPERATE, AND MAINTAIN THESE PREMISES AND THE BUILDINGS, STRUCTURES, AND FACILITIES WHICH ARE GOVERNED BY THIS PERMIT IN ACCORDANCE WITH THE STATED REQUIREMENTS OF THE GENOA TOWNSHIP ZONING ORDINANCE, AND SUCH ADDITIONAL LIMITS AND SAFEGUARDS AS MAY BE MADE A PART OTHIS PERMIT.
THE UNDERSIGNED Aaron Wallace STATES THAT THEY ARE THE FREE OWNER OF THE PROPERTY OF PROPERTIES DESCRIBED ABOVE AND MAKES APPLICATION FOR THIS SPECIAL LAND USE PERMIT.  BY:
ADDRESS:
Contact Information - Review Letters and Correspondence shall be forwarded to the following:
Brent LaVanway of Boss Engineering at BRENTL@BOSSENG.COM
Name Business Affiliation Email
FEE EXCEEDANCE AGREEMENT
As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.
SIGNATURE: (10)
PRINT NAME: Aaron Wallace PHONE: 248-207-1984

#### GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING June 13, 2016 6:30 P.M. MINUTES

CALL TO ORDER: The meeting of the Genoa Charter Township Planning Commission was called to order at 6:33 p.m. Present were Chairman Doug Brown, Diana Lowe, James Mortensen, Chris Grajek, John McManus, and Eric Rauch. Absent was Barbara Figurski. Also present was Kelly VanMarter, Community Development Director/Assistant Township Manager, Brian Borden of LSL Planning, and an audience of 10.

<u>PLEDGE OF ALLEGIANCE:</u> The pledge of allegiance was recited.

<u>APPROVAL OF AGENDA:</u> Moved by Commissioner McManus, seconded by Commissioner Mortensen, to approve the agenda as presented. The motion carried unanimously.

CALL TO THE PUBLIC: The call to the public was made at 6:34 pm with no response.

**OPEN PUBLIC HEARING #1...**Review of special use applications, impact assessment, and site plan for proposed 9,200 square foot contractor's office, warehouse, and storage yard. Special land use approvals are requested for outdoor storage, storage of hazardous materials, and grading activities within 25 feet of natural features setback. The property is located on the east side of Victory Drive, south of Grand River Avenue, on vacant Parcel #11-05-303-025. The request is petitioned by Seaside Seawalls.

#### Planning Commission disposition of petition:

- A. Recommendation of Special Use Application
- B. Recommendation of Impact Assessment (5-25-16)
- C. Recommendation of Site Plan (5-25-16)

Mr. Aaron Wallace of Seaside Seawalls, Mr. Karl Vollmer, the architect for the project, and Brent LaVanway, of Boss Engineering were present.

Mr. LaVanway gave a brief description of the property, the proposed project and what is being requested. Mr. Vollmer showed colored renderings and the floor plan of the building.

Mr. Borden reviewed his letter of June 7, 2016. There was a discussion between the Planning Commission and the applicant regarding what materials and equipment will be stored on site. It was noted that this information was not included on the site plan and

#### 06-13-16 Unapproved Minutes

in the impact assessment. This needs to be added prior to presenting the plan to the Township Board.

Mr. Borden stated there is no proposed screening or a berm shown on the south side of the property. There are no plantings shown for the north and east side of the site and he is unsure if the existing vegetation is sufficient to meet the requirements. Commissioner Mortensen does not feel there is enough information presented to make this determination. Commissioner Rauch agrees. He is also concerned with the containment of the materials being stored relative to the wetlands.

Commissioner Grajek is concerned with fueling the equipment and the possibility of spills. Mr. Borden stated there will be additional permits required for this use. Also, a Pollution Incident Prevention Plan is required. It was suggested that this plan be reviewed by the Township Engineer.

Mr. Wallace described the enclosure for the fuel tanks and how any spills will be contained. He also will be obtaining a permit from the DEQ, which will address Commissioner Grajek's concems regarding fueling up equipment.

Mr. Borden stated that Planning Commission approval is required because the sedimentation basins encroach to the edge of the wetland. Additionally, the proposed fence is within 25 feet of the wetland setback and requires a variance. The applicant agreed to change the location of the fence so that it meets the requirements.

Mr. Borden stated there is no dumpster enclosure proposed and the Township Ordinance does not allow for this requirement to be waived. The applicant will provide a dumpster enclosure.

Chairman Brown read an e-mall submitted by Michael and Christine Bartlett who own three parcels adjacent to this property. They do not object to the outdoor storage; however, they would like the entire area to be fenced. They are concerned with the storage of hazardous materials and want to ensure that all requirements are being met with regard to containing leaks or spills.

Chairman Brown asked that "waiting room" be changed to "waiting room / show room" and the anticipated number of customers / visitors per week be added to the Impact Assessment.

The call to the public was made at 7:29 pm.

Mr. Bill Gregory, who owns 960 Victory Lane, believes this will be a good addition to the industrial area and has no objections to the proposal.

Commissioner Mortensen does not believe this plan is ready to be sent to the Township Board. There are outstanding issues with the landscaping buffer, fuel storage, dumpster enclosure, etc. Chairman Brown agrees that the plan needs to be revised to address the concerns raised this evening.

**Moved** by Commission Lowe, seconded by Commissioner Mortensen, to table Agenda Item #1 until the July 11, 2016 Planning Commission meeting. The motion carried unanimously.

**OPEN PUBLIC HEARING #2...**Review of site plan and impact assessment for a proposed 16,053 sq. ft. addition to an existing industrial building known as Michigan Rod Products, Inc., which is located at 1326 Grand Oaks Drive, Howell. The request is petitioned by Asselin, McLane Architectural Group, LLC.

#### Planning Commission disposition of petition:

- A. Recommendation of Impact Assessment (3-29-16)
- B. Disposition of Site Plan (5-25-16)

Mr. John Asselin of Asselin, McLane Architectural Group, LLC, gave a brief description of the proposed project and showed the proposed building materials.

Mr. Borden stated that the applicant has addressed all of the concerns in his original review letter. He noted that the applicant is proposing less parking that is required; however, they will be providing a land bank in the case additional parking is needed in the future. They are required to provide 143 spaces. They are proposing 131 spaces and land bank 143 spaces. They have three shifts with a total of 75 employees so he believes this proposal is sufficient.

The call to the public was made at 7:50 pm with no response.

**Moved** by Commissioner McManus, seconded by Commissioner Lowe, to recommend to the Township Board approval of the Impact Assessment for Michigan Rod Products, Inc. dated March 29, 2016. **The motion carried unanimously**.

**Moved** by Commissioner Mortensen, seconded by Commissioner Grajek, to approve the Site Plan dated May 25, 2016 for a 16,053 sq. ft. factory expansion for Michigan Rod Products, Inc., subject to the following:

- The conditions spelled out in the Township Engineer's letter dated June 8, 2016 must be met.
- The conditions spelled out in the Brighton Area Fire Authority's letter of June 3, 2016 must be met.

The motion carried unanimously.

#### **Administrative Business:**

Staff Report

Mr. VanMarter stated there will be five items on next month's agenda, plus the item that was tabled this evening.



Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP
	Planning Director and Assistant Township Manager
Subject:	Seaside Seawalls – Special Land Use and Site Plan Review #3
<b>Location:</b>	Victory Drive – east side of Victory Drive, south of Grand River Avenue
<b>Zoning:</b>	IND Industrial District

#### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 6/22/16) proposing a new industrial building on a vacant 5.85-acre lot on Victory Drive. The project also includes outdoor storage, fuel storage tanks and grading within 25 feet of a wetland, each of which requires special land use approval. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Master Plan and Zoning Ordinance.

#### A. Summary

- 1. Provided the applicant complies with the specific use requirements (items 2-4 below) and any issues identified by Engineering and Fire are addressed, the project is expected to comply with the general special land use criteria.
- 2. Additional shrubs are required as screening for the outdoor storage yard.
- 3. Township Board approval is required for the gravel portion of the storage yard.
- 4. The applicant must submit a PIP Plan.
- 5. Planning Commission approval is required for the sedimentation basin outlets, which encroach to the edge of the wetland.
- 6. The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission. We request the applicant present a material and color sample board.
- 7. A sign permit will be required prior to installation.

#### B. Proposal

The applicant requests site plan review and approval of a 9,200 square foot building on a vacant 5.85-acre site. The application indicates that the proposed use is to store and maintain construction equipment.

Based on the project description, it best fits a contractor's office and building with indoor storage of equipment and machinery, which is a permitted use. The submittal also includes outdoor storage, fuel storage tanks and grading within 25 feet of a wetland, each of which requires a separate special land use approval.

Given the need for special land use approval, Planning Commission is to make a recommendation on the special land uses, site plan and Impact Assessment for consideration by the Township Board.



Aerial view of site and surroundings (looking north)

#### C. Special Land Use Review

Section 19.03 of the Zoning Ordinance identifies the review criteria for Special Land Use applications as follows:

1. Master Plan. The Township Master Plan and Future Land Use map identify the site and surrounding properties as Industrial. This category is intended for "industrial uses such as research, wholesale and warehouse activities and light industrial operations which manufacture, compounding, process, package, assemble and/or treat finished or semi-finished products from previously prepared material."

Provided the specific use requirements are met, the location and nature of the site and proposed uses are generally consistent with this category and description.

**2. Compatibility.** Surrounding properties are generally developed with industrial uses or are undeveloped. Review of aerial photos indicates existing outdoor storage that is accessory to other industrial operations in the vicinity.

As described in Paragraphs D-F below, the host of uses are subject to specific requirements of Section 8.02.02(b) and Article 13, which are intended to protect surrounding properties and the environment from potential adverse impacts. Provided these requirements are met, the project is generally expected to be compatible with the surrounding area.

- **3. Public Facilities and Services.** We defer to the Township Engineer and Fire Department for any specific comments/concerns they may have.
- **4. Impacts.** The site contains a large amount of wetland area approximately 3 acres of the 5.85-acre site. The Impact Assessment states that the wetland areas are of low quality.

The revised submittal includes a "no exposure certification" from MDEQ stating that a permit is not required for stormwater discharges associated with the proposed use.

**5. Mitigation.** The Township may deem mitigation necessary to limit or alleviate any potential adverse impacts as a result of the proposed project.

#### D. Outdoor Storage Standards

Section 8.02.02(b) identifies the specific requirements for commercial outdoor display sales or storage as follows:

1. Minimum lot area shall be one (1) acre.

The submittal identifies a lot area of 5.85 acres. This standard is met.

2. Any stockpiles of soils, fertilizer or similar loosely packaged materials shall be sufficiently covered or contained to prevent dust or blowing of materials.

The revised submittal includes separate storage areas atop the concrete pad and notes that a "lean-to" structure will cover the fuel tanks and soil storage bin. The applicant may also need to cover the soil storage bin with a tarp (or other material) to prevent the materials from blowing around.

3. All outdoor storage areas shall be paved with a permanent, durable and dustless surface and shall be graded and drained to dispose stormwater without negatively impact adjacent property. The Township Board, following a recommendation of the Planning Commission and the Township Engineer, may approve a gravel surface for all or part of the display or storage area for low intensity activities, upon a finding that neighboring properties and the environment will not be negatively impacted.

The site plan includes a 20' x 60' concrete pad for storage. The area adjacent to the rear of the building is also concrete. The larger area in between is proposed as gravel. Given the proximity of wetland areas to the site, the use of gravel is likely to reduce stormwater run-off, which could be a benefit; however, we defer to the Township Engineer for specific comments on this aspect of the proposal.

4. No outdoor storage shall be permitted in any required yard (setback) of buildings for the district in which the outdoor display, sales or storage use is located. Any approved outdoor sales or display within a parking lot shall meet the required parking lot setback; provided the Planning Commission may require additional landscaping screening or ornamental fencing.

Section 8.03 requires setbacks of 40 feet (rear) and 25 feet (side). This standard is met.

5. The site shall include a building of at least five hundred (500) feet of gross floor area for office use in conjunction with the use.

The proposed building contains 9,200 square feet of gross floor area. This standard is met.

6. All loading and truck maneuvering shall be accommodated on-site.

The site plan provides access to/from Victory Drive, with sufficient area for truck maneuvering. This standard is met.

7. All outdoor storage area property lines adjacent to a residential district shall provide a buffer zone A as described in Section 12.02. A buffer zone B shall be provided on all other sides. The Planning Commission may approve a six (6) foot high screen wall or fence, or a four (4) foot high landscaped berm as an alternative.

The site is surrounded by Industrial zoning; therefore, a Buffer Zone B is required around the outdoor storage area.

The revised submittal includes new plantings north and south of the storage area and proposes to allow the vegetated wetland area to act as screening on the east side.

The required berming has been added along the north and south sides, along with additional plantings. The total number of trees exceeds Buffer Zone B requirements, although there are more evergreen trees and fewer canopy trees than called for.

We do not have an issue with the tree plantings; however, both sides are deficient in terms of shrub plantings, which are intended to provide some low level screening. Given the depth of the storage area, 18 shrubs are required along both sides.

8. The height of all material and equipment stored in an outdoor storage area shall not exceed the height of any landscape screening, wall or fence. Boats and recreational vehicles may exceed the height of the fence provided that they are setback from the fence a distance equal to their height. Storage of materials up to the height of the adjacent building wall may be permitted in the rear yard if it is illustrated on the site plan, the rear yard does not abut a residential district or face an expressway, and such storage is confined to within twenty (20) feet of the building.

The revised Impact Assessment notes that the maximum height of equipment/material to be stored is 12 feet. Given the landscaping, vegetation, design and location of the building and storage yard, this standard is met.

#### E. Fuel Storage Standards

Section 13.07 identifies the specific requirements for fuel storage as follows:

- 1. Above Ground Storage Tanks. The project includes 2 above ground storage tanks, each with 300 gallon capacity. The tanks will be mounted on a concrete base pad that is located well away from the building and property lines. These standards are met.
- **2. Below Ground Storage Tanks.** The project entails above ground storage; therefore, these standards are not applicable.
- **3. Secondary Containment.** The project narrative indicates that the secondary containment area is designed to contain more than twice the volume of the tanks. This standard also requires "documentation of compliance with state and federal regulations, as required." The applicant must provide any such documentation required.
- **4. Pollution Incident Prevention Plan.** The revised submittal does not include the required PIP Plan. Section 13.07.04 lists all of the information required for a PIP Plan.
- **5. Permits.** Given the nature of the proposed use, the applicant may be required to obtain additional permits.

#### F. Wetland Protection Standards

Grading is allowed within 25 feet of a regulated wetland with special land use approval; however, no activities are allowed within 10 feet of a regulated wetland, unless otherwise approved by the Planning Commission.

The outlet for both sedimentation basins encroach to the edge of the wetland. As such, Commission approval is required.

#### G. Site Plan Review

**1. Dimensional Requirements.** As shown in the table below, the proposal complies with the dimensional standards of the IND:

	Lot Size		Minimum Setbacks (feet)			Max.		
District	Lot Area (acres)	Width (feet)	Front Yard	Side Yard	Rear Yard	Parking	Height	Lot Coverage
IND	1	150	50	25	40	20 front 10 side/rear	30' / 2 stories	40% building 85% impervious
Proposal	5.85	497	50.3	336 (N) 143 (S)	293	50.3 front 267 side 180 rear	24.67' / 1 story	3.29% building 18.79% impervious

**2. Building Materials and Design.** The proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission. We request the applicant present the Commission with material and color samples.

The proposed building consists of concrete block with different color treatments and a metal roof. Overhead doors are proposed on the rear and side of the building, as required.

Lastly, the front of the building is mostly a blank surface, but will be broken up via bands of color and the front yard greenbelt.

- **3. Parking.** The proposed project results in the need for 18 parking spaces, which are provided. The one required barrier free space is also provided and spaces are designed with looped striping, per Ordinance standards. Parking space and drive aisle dimensions also comply with Ordinance standards.
- **4. Pedestrian Circulation.** A 7-foot wide sidewalk is proposed between the main parking lot and building entrance. Because this is an industrial site, a public sidewalk is not required.
- **5. Vehicular Circulation.** The site plan proposes two driveways that align with the existing drives across Victory Drive. We see no issues with internal circulation, as drive aisle widths are compliant and there is ample maneuvering space behind the building for large vehicles/equipment.
- **6.** Landscaping. As shown in the table below, the plan complies with the standards of Section 12.02:

Location	Requirements	Proposed	Comments
Front yard	17 canopy trees	17 canopy trees	Requirements met
greenbelt	20' width	50' width	
Parking lot	2 canopy trees	2 canopy trees	Requirements met
	180 SF landscaped area	190 SF landscaped area	

- 7. Waste Receptacle and Enclosure. The site plan identifies a concrete pad in the rear yard with space for a waste receptacle. The revised plans include a 6-foot tall masonry enclosure, as required.
- **8. Exterior Lighting.** The lighting plan proposes 2 pole-mounted and 4 wall-mounted light fixtures. Intensities on-site and at the property lines, as well as pole heights and fixture types, are all compliant.
- 9. Signs. The site plan does not identify a ground sign; however, the elevation drawings show a 100 square foot wall sign. The proposed sign complies with the standards of Article 16, although the applicant will be required to obtain a sign permit prior to its installation.
- 10. Fencing. The rear yard is enclosed by security fencing, including gates at the two driveways. The revised plan includes a detail showing a 6-foot tall chain link fence with 1-foot of barbed wire across the top, as well as 8-foot tall chain link gates, also with 1-foot of barbed wire. The proposed fencing, including the barbed wire, complies with the standards of Section 11.04.04.
- 11. Impact Assessment. The submittal includes an Impact Assessment (most recently dated 6/22/16). In summary, the Assessment notes that the project is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at borden@lslplanning.com.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP

Planning Manager



July 6, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Seaside Seawalls Site Plan Review #2

Dear Ms. Van Marter:

We have reviewed the updated impact assessment and site plan documents prepared by Boss Engineering and dated June 22, 2016. The petitioner is planning to develop an approximately 9,200 square foot building and storage yard located on east side of Victory Drive, south of Grand River Avenue. Tetra Tech has reviewed the documents and found that the petitioner has included information requested during our last review regarding sanitary sewer tap fees and acknowledges that a water well will require Livingston County approval prior to installation.

All outstanding items have been addressed in this submittal.

Please call if you have any questions.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

copy: Brent LaVanway, P.E. Boss Engineering

Project Engineer



#### BRIGHTON AREA FIRE AUTHORITY

615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 29, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Seaside Seawalls, LLC

Victory Drive (SW of E. Grand River)

Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on June27, 2016 and the drawings are dated June 22, 2016. The project is for the proposed construction of a new 9,200 square foot B/S-1 mixed-use Occupancy that appears to be Type IIIB construction. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

1. The proposed diesel fuel containment area must be provided with impact protection in accordance with IFC 312. (No impact protection is identified on the drawings)

All previous comments have been corrected on drawings.

Additional comments will be given during the building plan review process (specific to the building plans and occupancy). The applicant is reminded that the fire authority must review the fire protection systems submittals (sprinkler & alarm) prior to permit issuance by the Building Department and that the authority will also review the building plans for life safety requirements in conjunction with the Building Department.

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS

Fire Inspector

GENOA TOWNSHIP
JUN 2 2 2016
RECEIVED

# IMPACT ASSESSMENT FOR SITE PLAN PETITION "SEASIDE SEAWALLS, LLC" GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

SEASIDE SEAWALLS, LLC 9868 EAST GRAND RIVER SUITES 110-225 BRIGHTON, MI 48116 (248) 207-1984

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MI 48843 (517) 546-4836

> MAY 04, 2016 Revised: 05/25/2016 06/22/2016

> > 16-049 EIA

#### INTRODUCTION

The purpose of this Impact Assessment (IA) report is to show the effect that this proposed development may have on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements for Impact Assessment* guidelines in accordance with Section 18.07 of the published Zoning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the Impact assessment and a brief statement of their qualifications.

Prepared For: SEASIDE SEAWALLS, LLC 9868 East Grand River Suites 110-225 Brighton, MI 48116 (248) 207-1984

Prepared By: BOSS ENGINEERING COMPANY Civil Engineers, Land Surveyors, Landscape Architects and Planners 3121 E. Grand River Howell, MI 48843 (517) 546-4836

Boss Engineering has been successfully providing engineering, surveying, planning and landscape architecture services on land development projects since 1969. Since its beginning, Boss Engineering has strived to provide unparalleled professional services with integrity and respect to every client. Today, Boss provides a complete lineup of consulting services for each project, ranging from conceptual design through final construction. The company currently employs a variety of professions including civil engineers, surveyors, landscape architects and sanitarians.

B. Map(s) and written description / analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also include information for areas within 10 feet of the property. An aerial photograph or drawing may be used to delineate these areas.

The site is located on the east side of Victory Drive approximately 1,625 feet southwest of the E. Grand River Ave intersection. The property has a total area of 5.85 AC and is currently undeveloped. The subject property and adjacent properties are all zoned within the Industrial District (IND), with the subject property having approximately 660 feet of frontage along Victory Drive.

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, soils, wildlife, woodlands, mature trees (eight inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

The total site area is 5.85 acres. Approximately 3.03 acers of the site are designated as wetland, that surround the site along the north and east property lines. The wetland is considered low quality and part of the county drain system with excavated ditches being connected by culverts and draining into the wetland. The woodlands on site contain dogwood (scrub), cottonwood (1"-20"), boxelder (1"-8"), and silver maple (1"-8"). The common wetland vegetation consists of reed canary grass with cattails and common reed grass within open water.

The site gradually drains towards the wetlands with the buildable area consisting of slopes of up to approximately 5.0% The USDA Soil Conservation Service soil classification for the site with Bronson Loamy Sand, Brookston Loam, Carlisle Muck, and Miami Loam.

The proposed development will not have any negative impact on the surrounding wetlands or vegetation and will help clean the site of significant debris. All storm water will be collected in two separate sedimentation basins and outlet at a controlled rate into the wetlands.

D. Impact on storm water management: Description of measures to control soil erosion and sedimentation during grading and construction operations and until a permanent ground cover is established. Recommendations for such measures may be obtained from County Soil Conservation Service.

Surface runoff during periods of construction will be controlled by proper methods set forth by the Livingston County Drain Commissioner, including silt fence, inlet protection devices, and seed and mulch.

At the time of construction, there may be some temporary dust, noise, vibration and smoke, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimize the effects, such as watering if necessary for dust control.

The Site Plan documents show the proposed locations of all site improvements along with detailed soil erosion control information. The plans will be reviewed by the Livingston County Drain Commissioner's office for compliance with their regulations prior to issuance of a Soil Erosion Control permit.

E. Impact on surrounding land use: Description of the types of proposed uses and other man made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

The proposed primary use of the site is for storage purposes for construction equipment and material, with hours of operations between 7am and 7pm Monday through Friday. The equipment being stored on-site consists of general construction equipment with a maximum storage height of 12 feet. The material being stored on-site will be on a concrete pad and contained by a 6 foot screen wall between the material and the existing wetland with bin blocks between each storage use. The material consist of top soil, sand, crushed concrete, gravel, rip-rap, and field stone. Top soil will be covered overhead with a lean-to structure.

The subject site conforms with current surrounding land being zoned in the industrial district. The increase in light, noise or air pollution will be minimal with what is typically associated with an industrial development.

F. Impact on public facilities and services: Description of number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection.

Letters from the appropriate agencies may be provided, as appropriate.

The anticipated occupancy of approximately 6 employees and 5 total visitors/clients per week, will have very little impact to nearby properties.

There is no expected impact on Howell Area Schools and very minimal impact on the police and fire departments.

G. Impact on public utilities: Description of the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites service with sanitary sewer, calculations for pre- and post development flows shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

For sanitary, the development is to be served by public sanitary sewer and connect to the existing sanitary lead on site. The development lies outside of the municipal water main district and will be serviced by well.

The pre-development sanitary flow from this site is zero. Post-development flows based on MHOG sewer standards for industrial buildings is equivalent to 0.46 REU's.

Warehouse & Storage: Unit factor = 0.05 per 1,000 sq ft

REU's =  $(9,200 \text{ sq ft} / 1,000 \text{ sq ft}) \times 0.05 = 0.46 \text{ REU's}$ 

With regards to storm water management, the project will be required to meet all local, county and state storm water and erosion control requirements. All of the required information is included in the Site Plan documents. All storm water will be directed towards either the proposed north or south sedimentation basins and outlet at a controlled rate into the onsite wetland.

H. Storage or handling of any hazardous materials: Description of any hazardous substances expected to be used, stored or disposed of on the site. The information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

Two 300 gallon diesel tanks will be stored on-site on a 20 ft. x 10 ft. concrete pad. The tanks will be surrounded by a 1 ft. concrete secondary containment structure that is capable of holding 1,279 gallons, more than twice the volume of fuel being stored in the tanks. The fuel tanks will be covered overhead with a lean-to structure. A DEQ no exposure certificate has been obtained to address concerns regarding a pollution incident prevention plan and fueling equipment.

No hazardous materials will be disposed of on this site.

I. Impact on traffic and pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan.

The anticipated number of trips that will be generated based on the number of employees will be 6 trips between 7 AM - 9 AM and 6 trips between 5 PM - 7 PM. With 1 visitor/client per day for a total of 5 visitors/clients per week, the anticipated number of trips that will be generated based on visitors/clients will be 10 total per week.

J. A detailed traffic Impact study shall be submitted for any site over ten (10) acres In size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets.

The site is under 10 acres and therefore a detailed traffic impact study is not necessary.

K. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None at this time.

#### L. A list of all sources shall be provided.

Genoa Township's Submittal Requirements for Impact Assessment
Genoa Township Zoning Ordinances
Soil Survey of Livingston County, Michigan, U.S.D.A. Soil Conservation Service
National Wetland Inventory Plan, United States Department of the Interior, Fish and Wildlife Service
Trip Generation manual, 6<sup>th</sup> edition, Institute of Transportation Engineers



#### MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER RESOURCES DIVISION

resp //mychigan goy/dwg

#### NO EXPOSURE CERTIFICATION

FOR EXCLUSION OF COVERAGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
By Authority of Act 451, PA 1994, Part 31

DEQ only do no	wnte in this space
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Submission of this No Exposure Certification constitutes certification the Facility identified below does not require permit authorization for storm water discharges associated with industrial activity in Michigan based on 40CFR 122. The Michigan Department of Environmental Quality (DEQ) may deny an exclusion at any time it determines that conditions at the facility do not meet the exclusion requirements. If the exclusion is denied, the owner must obtain authorization to discharge prior to any point source discharge of storm water from the facility.

Be advised that facilities excluded from permit requirements due to "no exposure" are required to submit a no exposure certification form to the DEQ once every five years to continue to be excluded from the permitting requirements.

FACILITY INFORMATION	where discharge	occurs)	OWNER/PERMITEE INFORM	ATION	
SITE/FACILITY NAME	. 90	- 11	COMPANY NAME		
Proposed Newbuil	of FOR Car	isse Seartalls	SeasiDE Segualls	LLC	
ADDRESS 1		3,1,2,0,0,0			
uktory Dr.	Part of lot	18 € 19	9864 E.Crowl	Skiver	
ADDRESS 2	U	<u>,                                    </u>	ADDRESS 2		
Hovel 1	MI STATE	48843	Suite 110-225		
CITY	STATE	ZIP CODE	Brighton	STATE	ZIP CODE
			Drighton	MI	48116
COUNTY ,	TOWNSHIP		CONTACT PERSON 1 //		7
Livingston	Genoc	`	aaron Walle	ce	
LATITUTE (to nearest 15 seconds)	LONGITUDE (	to nearest 15 seconds)	CONTACT PERSON TELEPHONE		
	<b>!</b>		(ell- (248)207-1984	f	
SW % of SE % Section: 5 8	<u>*</u> , Town: T	<u> </u>	JE_,		
PRIMARY STANDARD IN	DUSTRIAL C	LASSIFICATION	(SIC) CODE	(=	5-employees)
	CTION RATE FOR E	EACH PROCESS MAY BE O	EVENUES. IF SUCH INFORMATION IS NOT AVAILABLE OF SUCH INFORMATION THAT GENERATION THAT GENERATION SUCH THAT GENERATION THAT GENERATION THAT GENERATION SUCH THAT GENERATION SUCH THAT GENERATION SUCH THAT GENERATION SUCH T		
THIS FACILITY HOLDS E Please list any other NPDES num		DES PERMIT:	NA		

PLEASE RETURN THIS COMPLETED FORM (Page 1 & 2), AND ANY ATTACHMENTS, TO THE FOLLOWING ADDRESS:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER RESOURCES DIVISION 525 WEST ALLEGAN STREET P.O. BOX 30458 LANSING MI 48909

If you have any questions regarding the completion of this form, please contact the appropriate district office. Please find district contact information at <a href="https://www.michigan.gov/degstormwater">www.michigan.gov/degstormwater</a>

NOTE: There are TWO pages to a complete no exposure exclusion request. Please make sure that both pages have been completed prior to submitting

FX	POSI	IRF	CHE	CK	LIST

Are any of the following materials or activities exposed to storm water, now or in the foreseeable future?

1.	Using, storing, or cleaning of industrial machinery or equipment, or residuals from such practices.	Yes	No
2.	Materials or residuals on the ground or in storm water inlets from spills or leaks.	Yes	No
3.	Materials or products from past industrial activities.	Yes	No
4.	Material handling equipment (except adequately maintained vehicles).	Yes	No
5.	Materials or products during loading, unloading or transporting activities.	Yes	No
6.	Materials or products stored outdoors (except final product intended to be used outside where exposure to storm water does not result in a discharge of pollutants).	res	No
7.	Materials contained in open, unsealed, deteriorated, leaking, or improperly managed drums, barrels, tanks, etc.	Yes	(No)
8.	Materials or products handled or stored on roads or railways owned or maintained by the facility.	Yes	No
9.	Waste materials (except general office trash).	Yes	(No)
10.	Application or disposal of process wastewater (unless otherwise permitted).	Yes	No
11.	Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e. under an air quality control permit).	Yes	(No)
NOTE:	If you answered yes to any of the above questions (1-11), you are not eligible for the no exposure exclusion.		
12.	Facility has conducted an investigation to locate any illicit connections to the storm sewer system. within our plans	Yes	No
13.	Based on the above investigation, the facility has concluded that there are no illicit connections to the storm water system.	Yes	No

#### CERTIFICATION

State of Michigan regulations require this form be signed as follows:

Corporation: by the principal executive officer or vice-president or higher, or his/her designated representative if the representative is responsible for the overall operation of the facility from which the discharge described originates.

Partnership: by a general partner Sole proprietorship: by the proprietor

Municipal, state, or other public facility: by a principal executive officer, the mayor, village president, city or village manager, or other duly authorized employee.

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from storm water permitting.

I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility identified in this document (except as allowed under 40 CFR 122.26(g)(2))

I understand that I am obligated to submit a no exposure certification form to the Michigan Department of Environmental Quality once every 5 years. I understand that I must allow the Michigan Department of Environmental Quality to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request. I understand that I must obtain discharge authorization under an NPDES permit prior to any point source discharge of storm water associated with industrial activity from the facility.

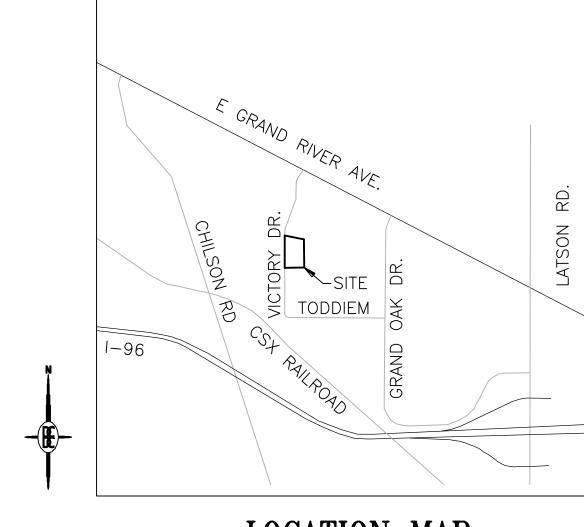
I certify, under penalty of law, that this document and all attachments were prepared by me, or under my direction or supervision in accordance with a system to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I certify under penalty of law that I possess full authority on behalf of the legal owner/permittee to sign and submit this No Exposure Certification.

Printed name toron Wallace	Title President
Signature Q V	Date (4-27-14)

# SITE PLAN FOR SEASIDE SEAWALLS, LLC

PART OF THE SW. 1/4 SEC. 5 & THE SE. 1/4 SEC 6, T2N-R5E

# GENOA TOWNSHIP, LIVINGSTON COUNTY, MI



LOCATION MAP NO SCALE

SHEET INDEX

#### CONSTRUCTION NOTES

PROPERTY DESCRIPTION:

of Victory Drive 
☐66 foot wide Right of Way ☐on the following three ☐☐courses:

Also sublect to any other easements or restrictions of record.

Part of Lot 18 and part of Lot 19 of "GRAND OAKS WEST INDUSTRIAL PARK", as recorded in Liber 30 of Plats, Pages 1-5, Livingston County Records and being a part of the Southwest 1/4 of Section 5 and part of the Southeast 1/4 of Section 6, T2N-R5E Genoa Township, Livingston County, Michigan, more particularly described as follows: Beginning at the Northwest Corner of said Lot 19 of "GRAND OAKS WEST INDUSTRIAL PARK" thence along the North line of said Lot 19, S 80 36'27" E, 435.57 feet thence S 02 07'51" W, 581.16 feet thence S 88 58'54" W, 379.75 feet thence along the East line

1□Northerly on an arc left, having a length of 62.39 feet, a radius of 650.15 feet, a central

2□Northerly on an arc right, having a length of 99.88 feet, a radius of 584.15 feet, a

central angle of 09 47'49, and a long chord which bears N 05 57'55" W, 99.76 feet □ 3 N 01 04 01" W, 497.72 feet, to the POINT OF BEGINNING, containing 5.85 acres, more or less, and sublect to the rights of the public over the existing said Victory Drive.

angle of 05 29'55, and a long chord which bears N 08 06'52" W, 62.37 feet

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT 1. THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

2. DO NOT SCALE THESE DRAWINGS AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

CONSTRUCTION.

5. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.

6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS

7. PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE, ATTRACTIVE CONDITION AS ORIGINALLY

8. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS

9. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.

10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF

11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE

UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES. 12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.

13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING

PROPERTY PROTECTED FROM DAMAGE.

14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES. 15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT

17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.

19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE

SHOWN ON THE PLANS. 20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS

21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY

BE REQUIRED BY THE ENGINEER.

22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.

24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS

25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE

CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS. 26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL

DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE.

27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. 28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.

29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR

30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.

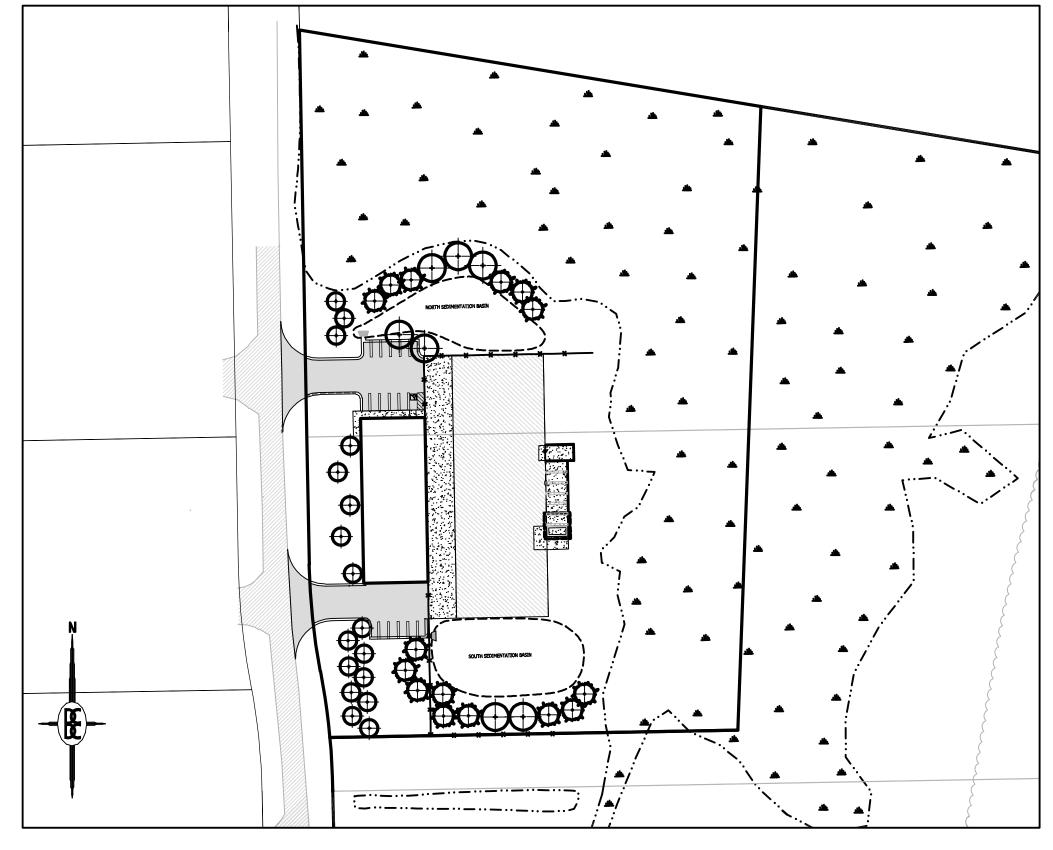
31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED

INCIDENTAL TO THE CONTRACT.

32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.

33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.

34. ACCESS ROADS TO SITE SHALL BE MAINTAINED DURING CONSTRUCTION.



OVERALL SITE MAP NO SCALE

#### DESCRIPTION COVER SHEET EXISTING CONDITIONS GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN DRAINAGE AREA & UTILITY PLAN STORM SEWER CALCULATIONS LANDSCAPE PLAN LIGHTING PLAN SANITARY SEWER DETAILS CONSTRUCTION DETAILS DRAWINGS PREPARED BY ARCHITECT EXTERIOR ELEVATIONS PROPOSED FLOOR PLAN

#### SEASIDE SEAWALLS, LLC

#### ARCHITECT:

PUCCI & VOLLMAR ARCHITECTS, PC SEASIDE SEAWALLS, LLC 508 E. GRAND RIVER AVE #100B 9868 EAST GRAND RIVER SUITES 110-225 CONTACT: KARL VOLLMAR

#### PREPARED FOR OWNER:

CONTACT: KARL VOLLMAR
PHONE: (810) 225-2930
E-MAIL: KARL@PV-ARCHITECTS.COM
PHONE: (248) 207-1984

E-MAIL: AARON@SEASIDESEAWALLS.COM

PREPARED BY:



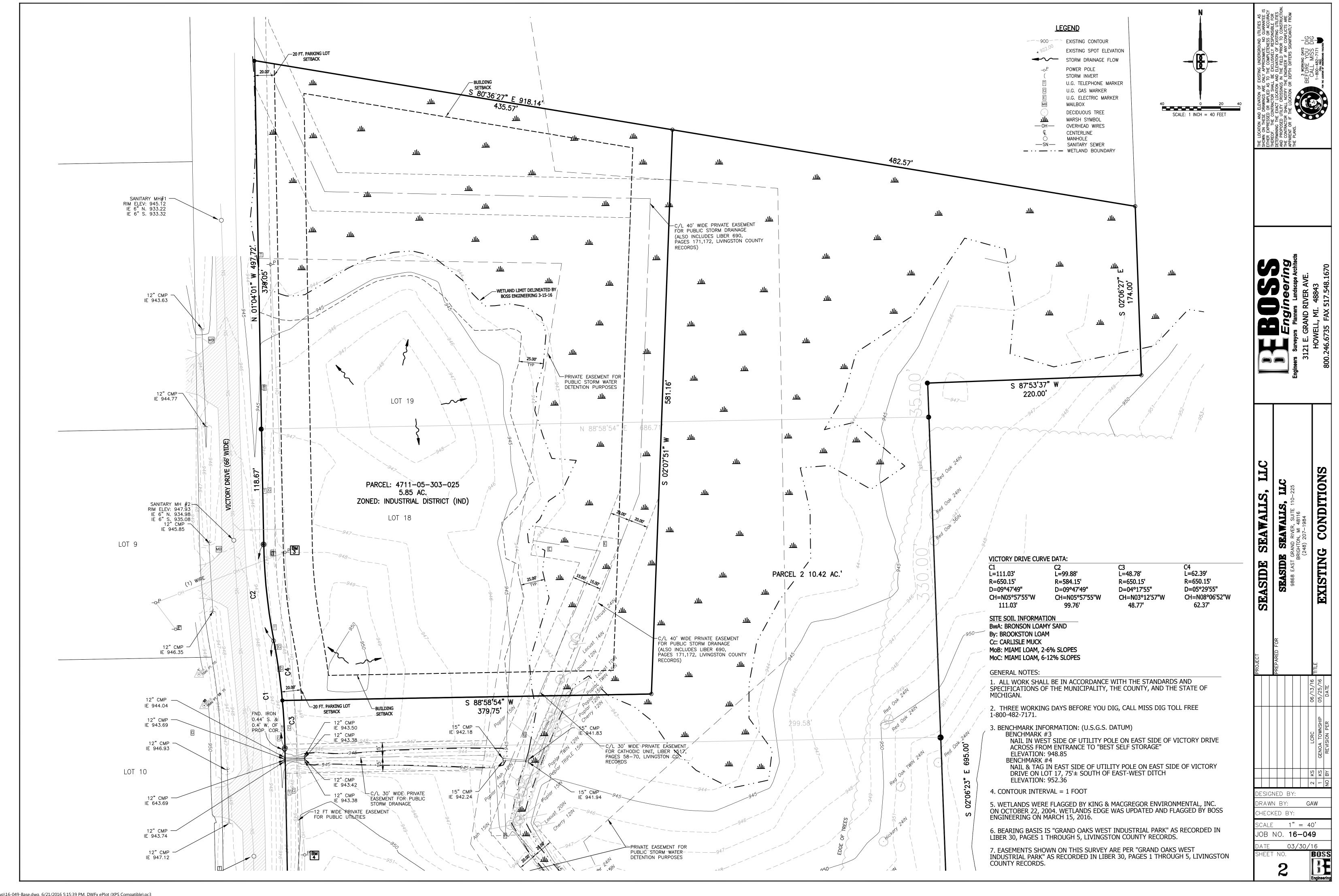
3121 E. GRAND RIVER AVE. HOWELL, MI. 48843 800.246.6735 FAX 517.548.1670

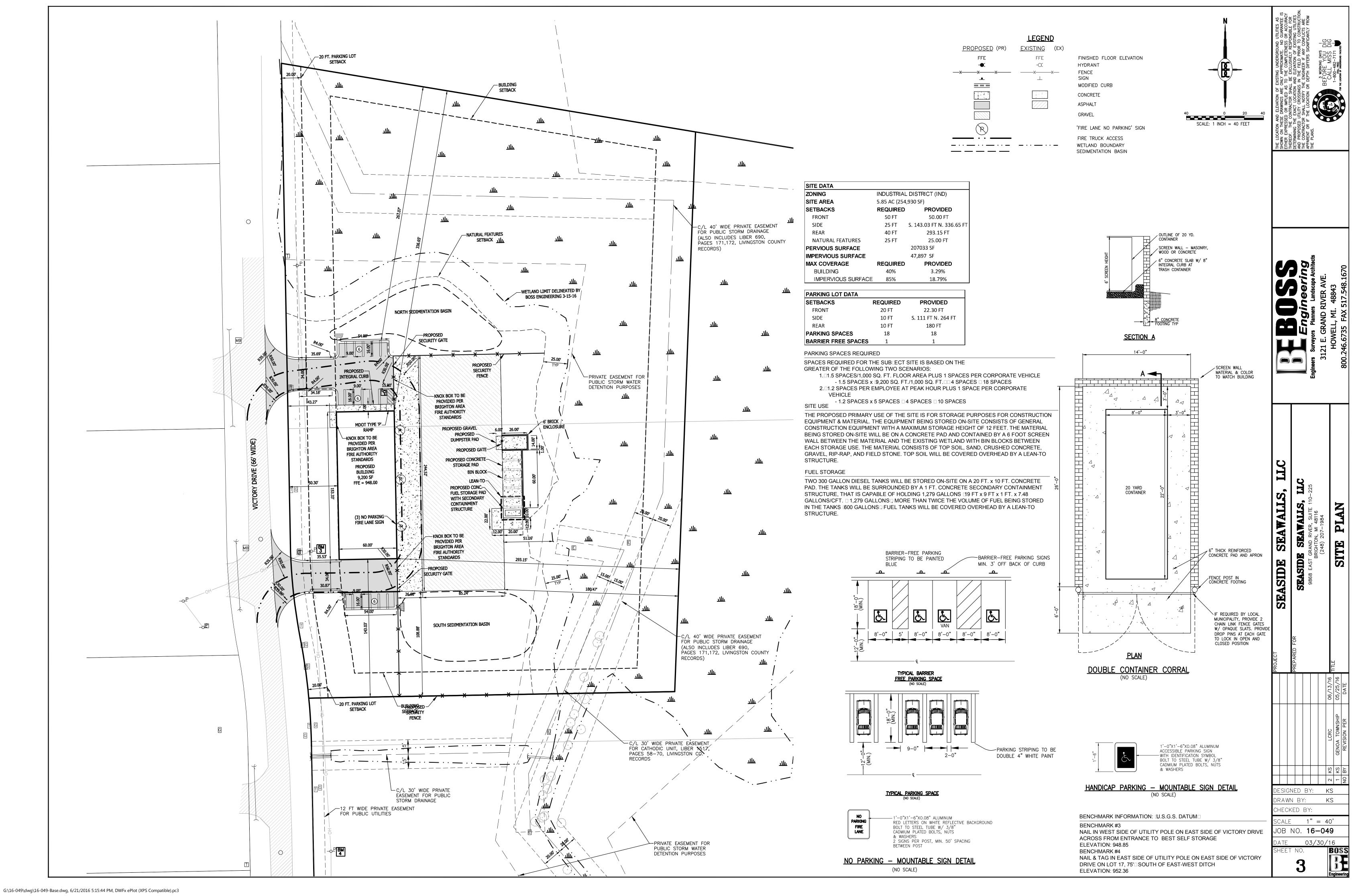
FOR SITE PLAN APPROVAL ONLY! NOT FOR CONSTRUCTION

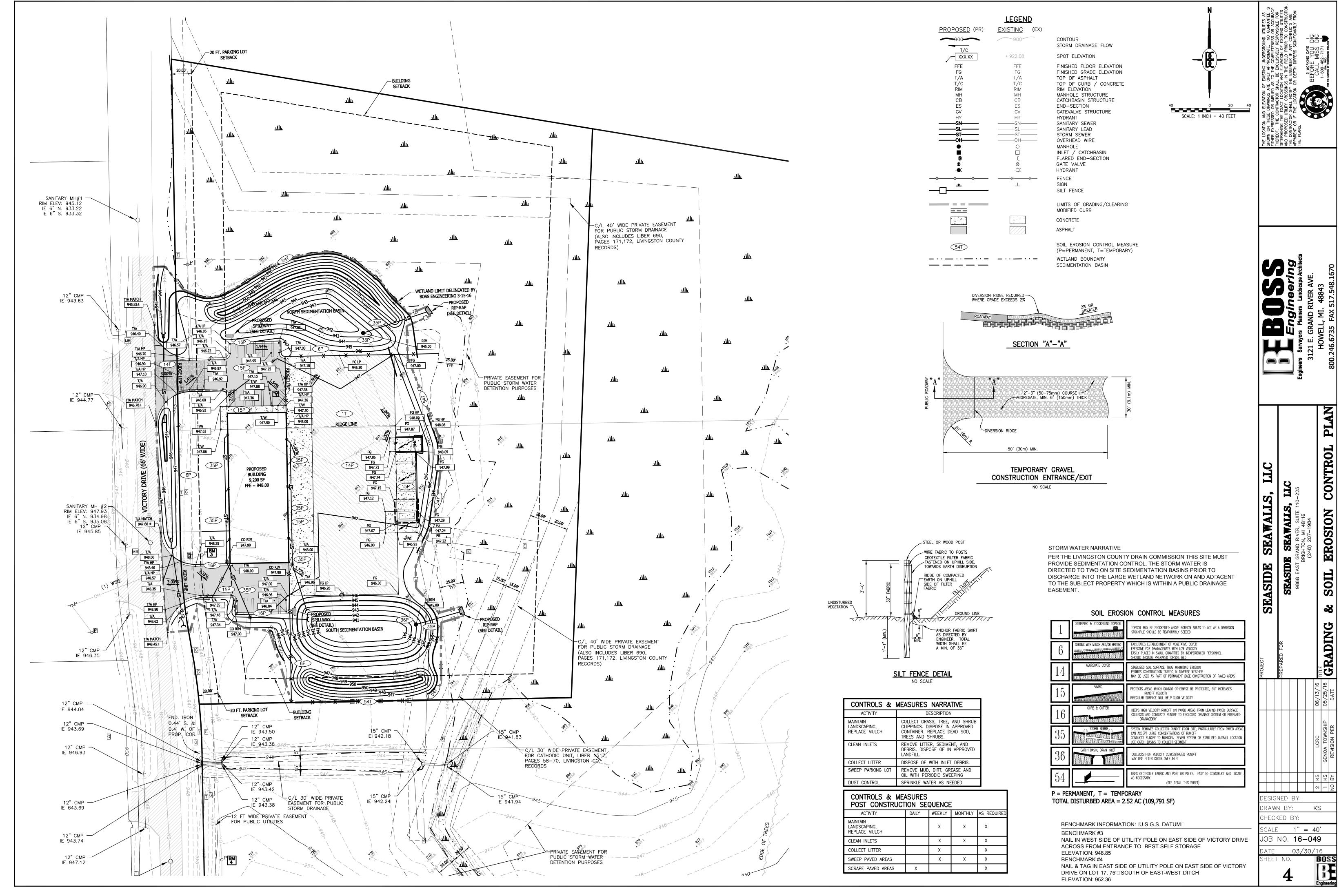
			1
	GENOA TOWNSHIP	06/22/16	
	LIVINGSTON COUNTY ROAD COMMISSION	06/13/16	_
	GENOA TOWNSHIP	05/25/16	ISSUE DATE: 5/4/2016
CK	REVISION	DATE	JOB NO. 16-049

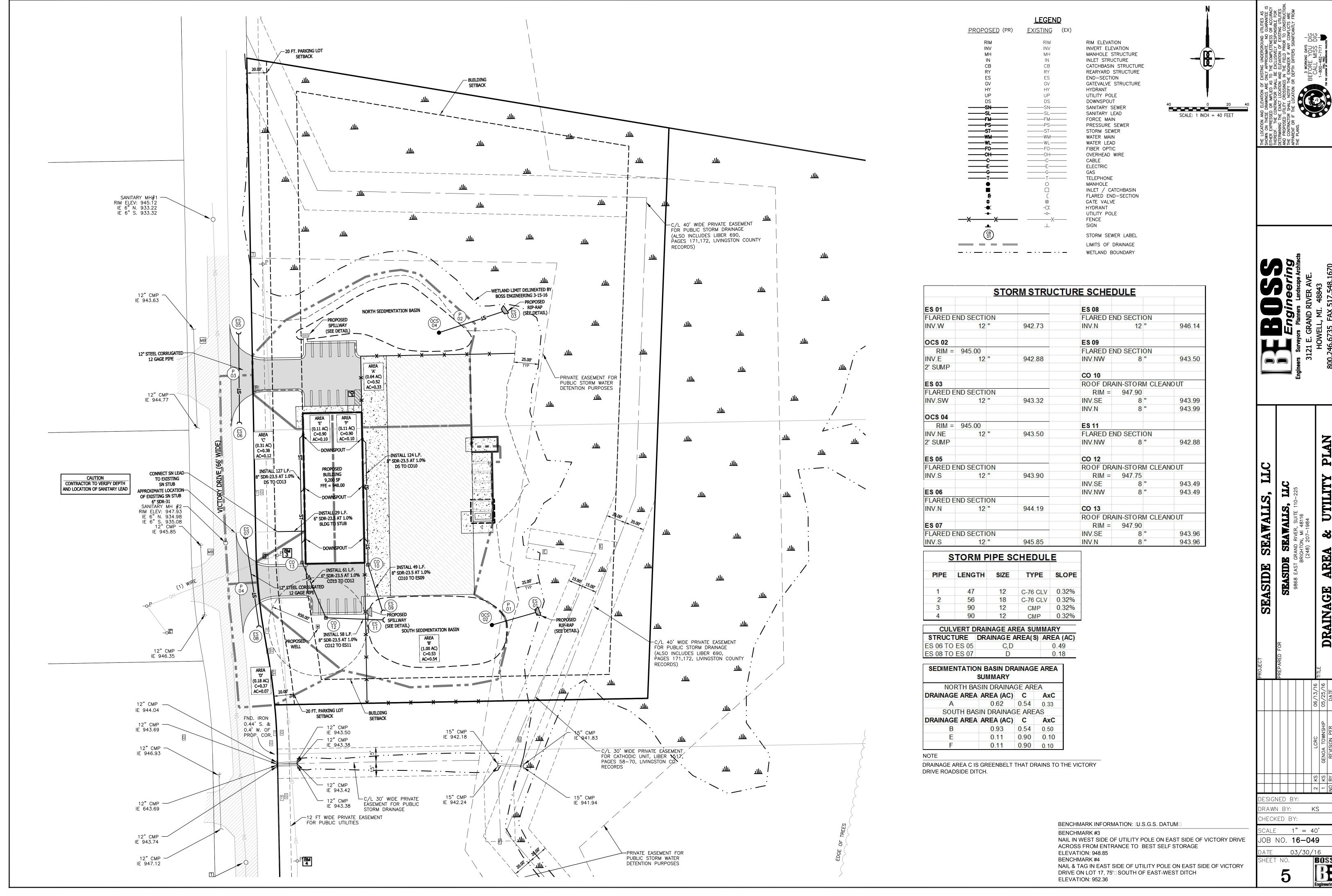
#### INDEMNIFICATION STATEMENT

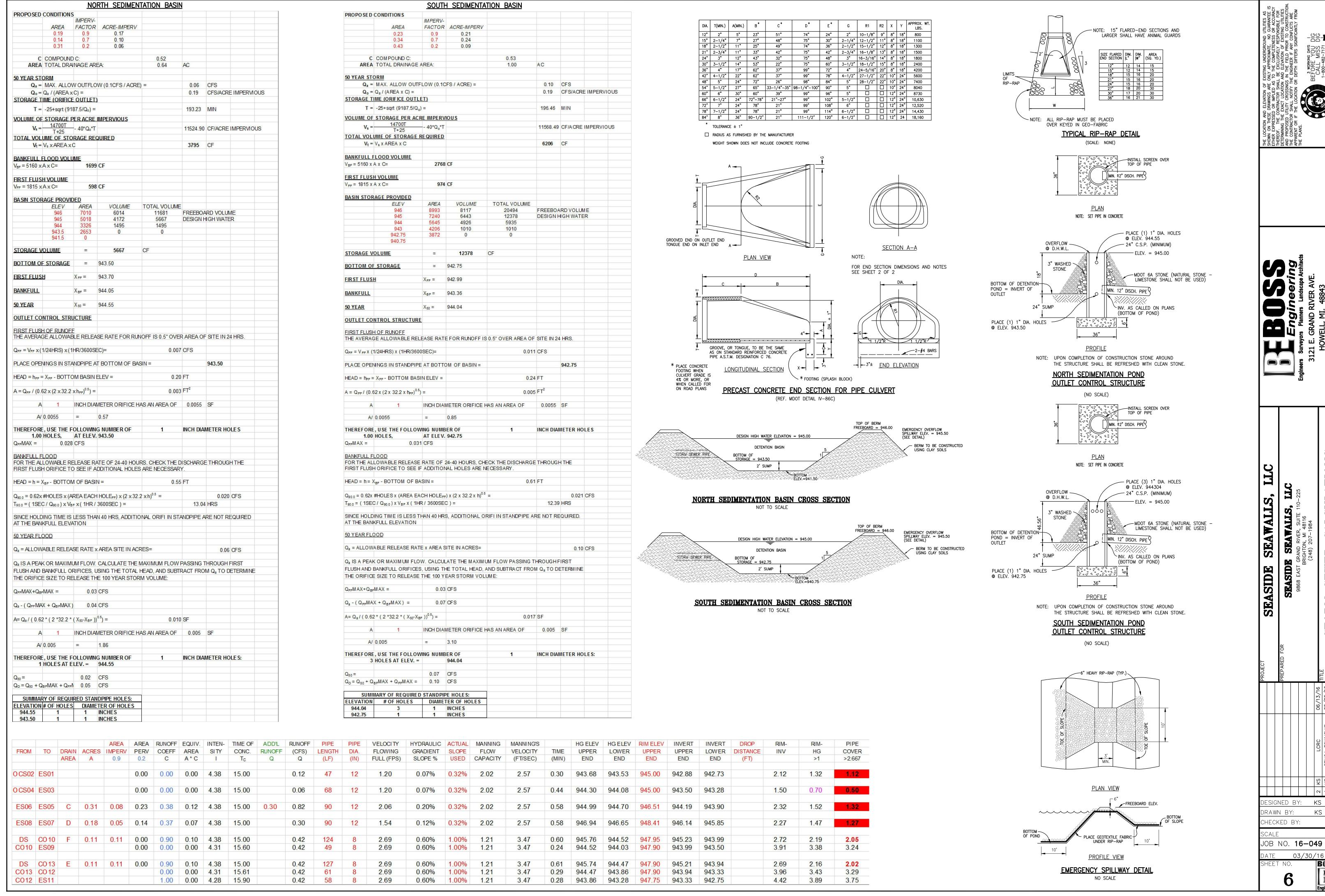
THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES. AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.











ONS

STORM

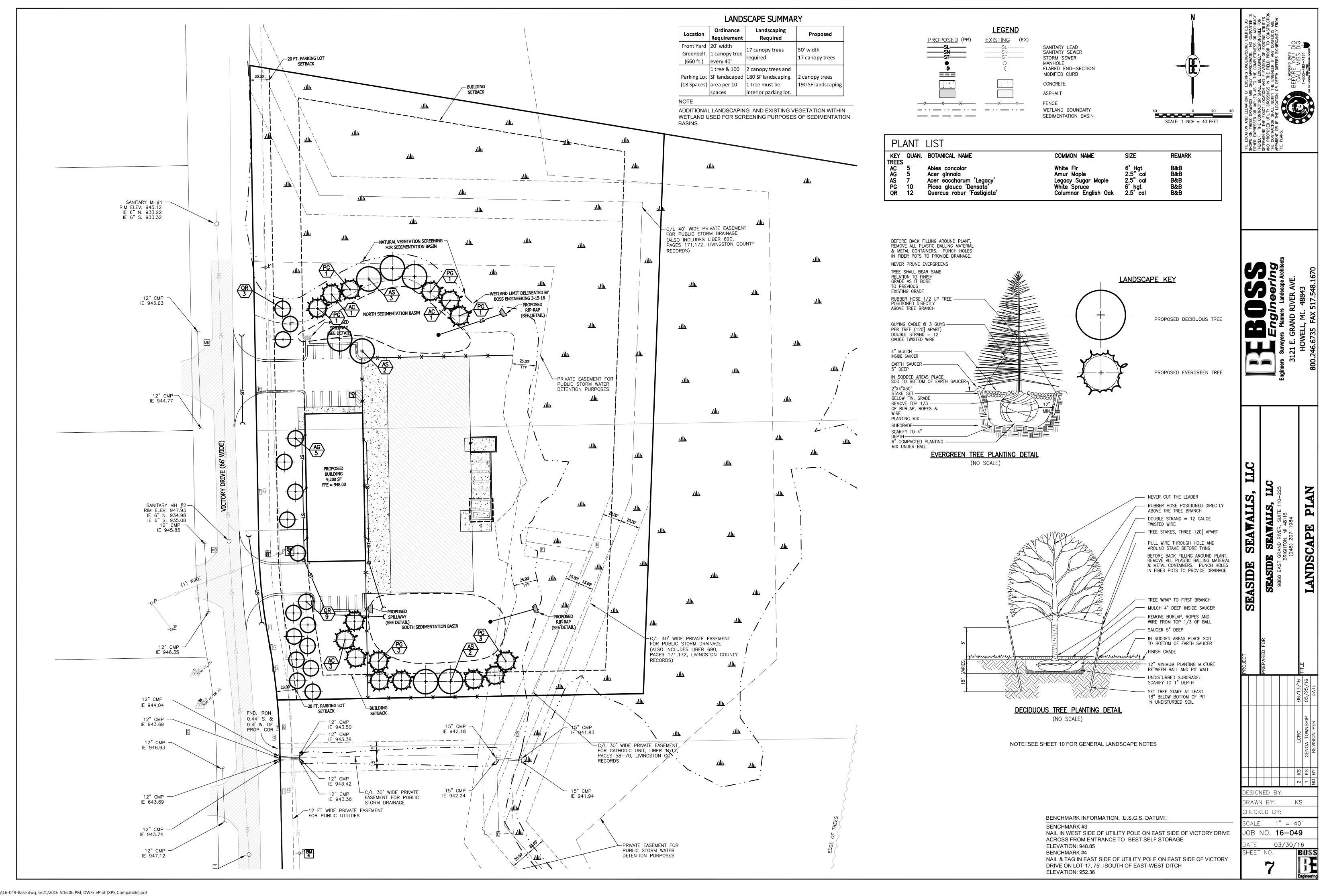
SEAWALLS,

ESIGNED BY: KS

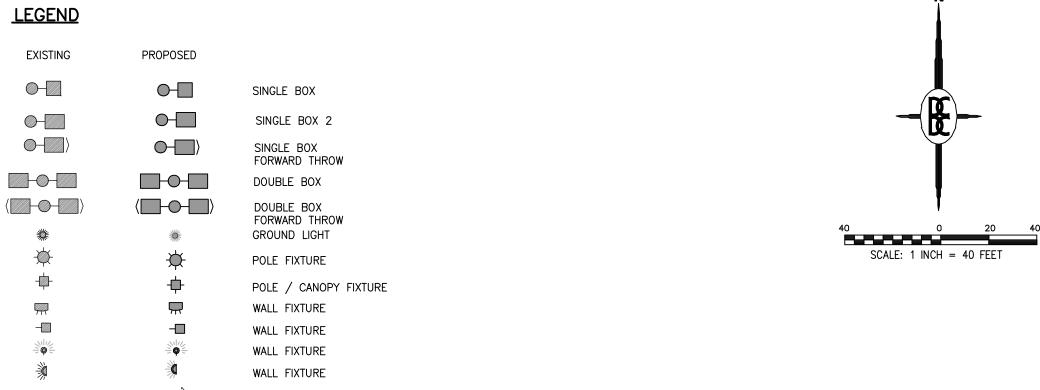
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KS

03/30/16







#### MUNICIPAL REQUIREMENTS

MAXIMUM 0.5 FOOTCANDLE AT RESIDENTIAL LOT LINE.
 MAXIMUM 1.0 FOOTCANDLE AT NON-RESIDENTIAL LOT LINE.

FOOT CANDLES ON SITE

MAXIMUM 20 FT. HT. ADJACENT TO RESIDENTIAL
 MAXIMUM 30 FT. HT. ADJACENT TO NON-RESIDENTIAL

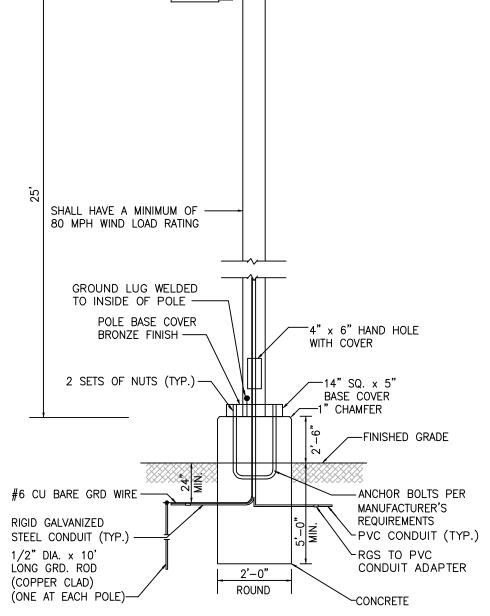
#### SITE LIGHTING SUMMARY

LIGHTING LEVELS ARE SHOWN IN FOOTCANDLES AT GRADE

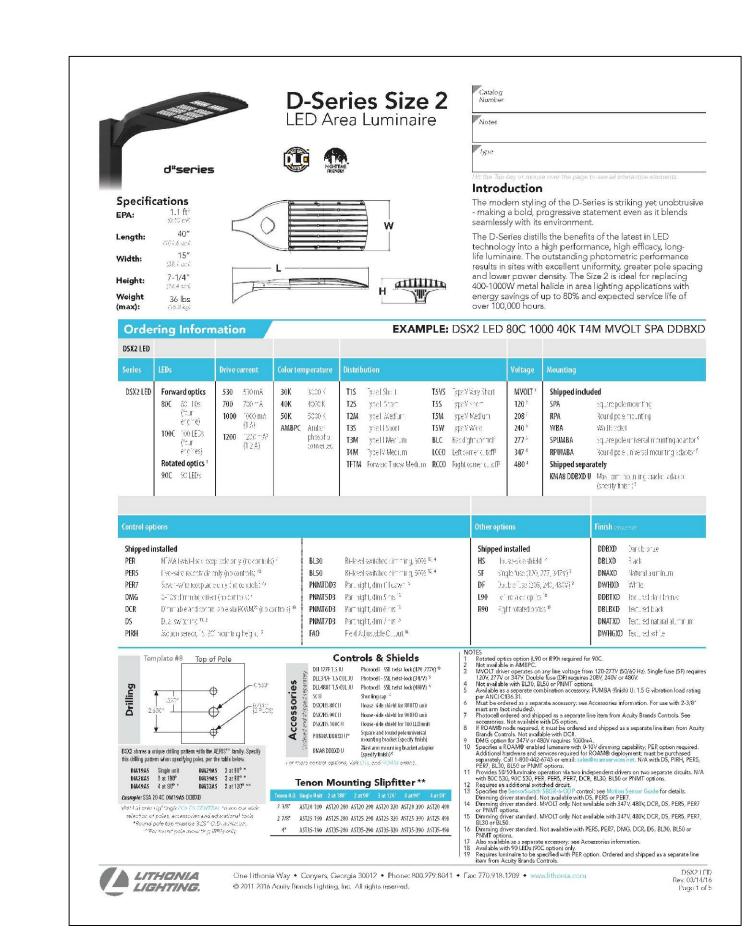
MAX. LIGHT LEVEL AT THE PROPERTY LINE: 0.00 FC. MIN. LIGHT LEVEL AT THE PROPERTY LINE: 0.00 FC.

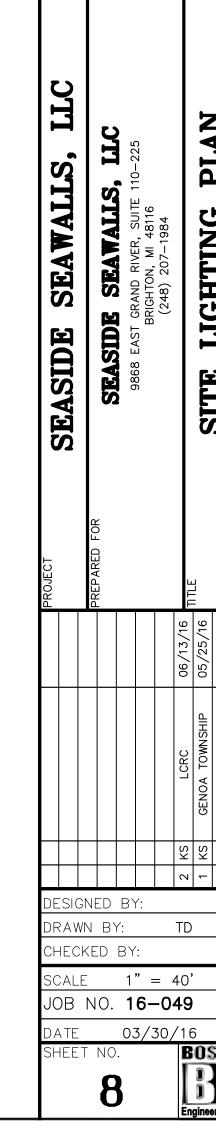
#### GENERAL LIGHTING NOTES

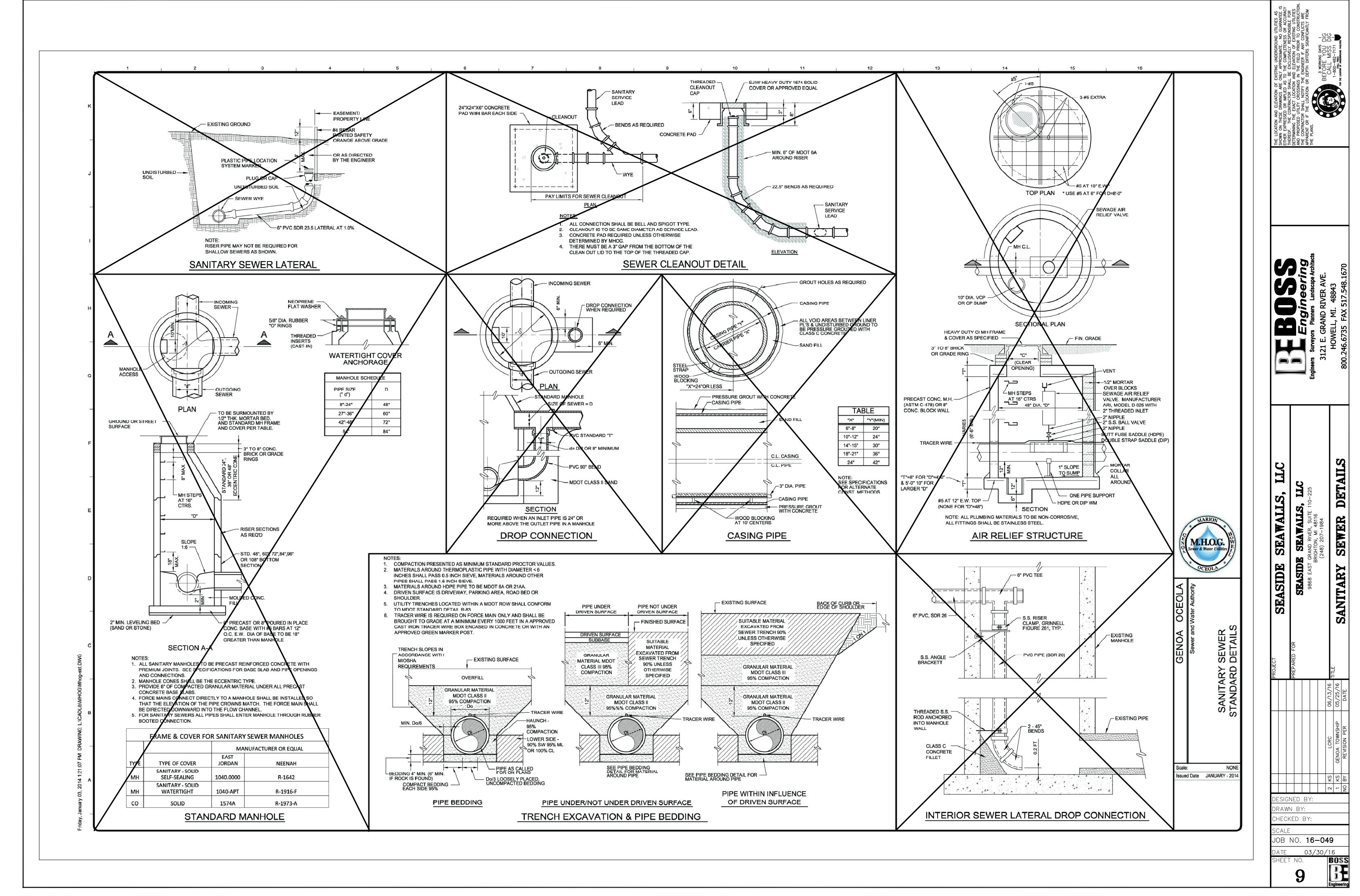
- 1. THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
- 2. ALL POLES ARE TO BE MOUNTED ON CONCRETE PEDESTALS 2' ABOVE GRADE IN PARKING LOTS AS SHOWN IN DETAIL.
- 3. ALL POLES LOCATED OUTSIDE OF THE PARKING AREA SHALL BE LOCATED 3' FROM BACK OF CURB OR EDGE OF SIDEWALKS.
- 4. SHOP DRAWINGS FOR THE ELECTRICAL WIRING OF THE POLES NEED TO BE SUBMITTED TO THE ENGINEER FOR COORDINATION OF UNDERGROUND CONDUIT AND APPROVAL OF LAYOUT.



BOX LIGHT FIXTURE DETAIL (TYP.)
(NO SCALE)







### LIVINGSTON COUNTY SOIL EROSION PERMIT TEMPLATE TEMPORARY CONTROLS AND SEQUENCE

NOTIFY LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE 24 HOURS PRIOR TO START OF GRADE WORK.

IN ACCORDANCE WITH PUBLIC ACT NO. 53, OF 1974 THE PERMIT HOLDER SHALL CALL MISS DIG FOR STAKING AND LOCATING OF UTILITIES, AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY WORK.

### PERMITTING STANDARDS

36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS SHALL BE PLACED AND MAINTAINED ALONG PERIMETER ON ALL LOW LYING AREAS OF THE CONSTRUCTION SITE TO FILTER RUNOFF BEFORE LEAVING PROJECT SITE.

ALL TEMPORARY EROSION CONTROL DEVICES AS NOTED ON PLANS SHALL BE INSTALLED PRIOR TO THE START OF MASSIVE EARTH DISTRIBUTION.

PLAN DOES DENOTE A DETAILED EROSION CONTROL DEVICE TO RESTRICT TRACKING OF MATERIAL ONTO THE HIGHWAY. STONE DIAPERS SHALL BE INSTALLED AT ALL INGRESS/EGRESS AREAS OF THE SITE PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. DIAPERS SHALL BE OF CRUSHED STONE AND SHALL HAVE A MINIMUM LENGTH OF 100' LINEAL FEET.

### SLOPES

SLOPES IN EXCESS OF 3 HORIZONTAL TO 1 VERTICAL SHALL NOT BE USED EXCEPT WITH A MECHANICAL DEVICE SUCH AS A RETAINING WALL, TERRACING, OR OTHER PRIOR APPROVED DEVICE.

### STORM DRAINS

ALL STORM WATER STRUCTURES, CATCH BASINS AND/OR MANHOLES, IF BLOCK, SHALL BE PLASTERED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURES. GROUTING AND POINTING WILL BE NECESSARY AT THE CASTING AND STRUCTURE JOINT TO PREVENT LEAKAGE AND THE RESULTING SOIL MOVEMENT, AROUND THE STRUCTURE

STORM WATER INLETS SHALL HAVE AS A TEMPORARY CONTROL A STRAW BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING CONSTRUCTION. AS AN ALTERNATIVE TO THE STRAW BALE BARRIER, A BURLAP AND PEA STONE FILTER MAY BE USED. THREE LAYERS OF BURLAP FIBER AND A FILTER OF PEA STONE MINIMUM 1 FT. IN DEPTH CAN BE USED. DUE TO THE POROSITY OF THE BURLAP FILTER THE MINIMUM OF FT. OF STONE IS VERY IMPORTANT. THE CONTROL SHALL BE INSTALLED AS SOON AS THE STRUCTURE IS BUILT AND INSPECTED DAILY. BURLAP AND PEA STONE FILTERS WILL NEED TO BE CHANGED AFTER EACH RAINFALL.

COUNTY CODE REQUIRES A MINIMUM PIPE SIZE OF 12" IN DIAMETER. IF SMALLER PIPE IS NEEDED FOR OUTLET PURPOSES THE 12" CAN BE BAFFLED TO THE CORRECT SIZE. ALL PIPE SHALL MEET THE 12" DIAMETER CODE SIZE.

ALL STORM DRAINAGE PIPE 30" IN DIAMETER OR LARGER SHALL BE POINTED, AT THE JOINTS ON THE INSIDE WITH MORTAR, AFTER BACKFILLING.

IT WILL BE NECESSARY FOR THE DEVELOPER TO HAVE THE STORM DRAINAGE LINES CLEANED PRIOR TO FINAL INSPECTION BY THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE. IF REQUIRED THIS WORK SHALL BE DONE BY A PROFESSIONAL SEWER CLEANING FIRM AND CERTIFIED IN WRITING BY THE PROJECT ENGINEER. ALL SUMPS AND TEMPORARY SILT TRAPS SHALL ALSO BE CLEANED AT THIS TIME. STABILIZATION

ALL UNIMPROVED DISTURBED AREAS SHALL BE RE-TOP SOILED, WITH A MINIMUM OF 3" OF MATERIAL, SEEDED, MULCHED AND TACKED WITHIN 15 DAYS OF THE COMPLETION OF THE MASSIVE EARTH DISRUPTION. IN THE NON-GROWING SEASON STRAW MATTING WILL SUFFICE. HYDROSEEDING WILL BE AN ACCEPTABLE ALTERNATE FOR MULCHING. EXTREME CARE SHOULD BE EXERCISED IN SPRING AND FALL PERIODS AS A FROST WILL BREAK THE BIND OF THE HYDROSEEDING, WHICH WILL AFFECT THE

EFFECTIVENESS OF THIS PROCEDURE IN THE NON-GROWING SEASON, TEMPORARY STABILIZATION OF MASSIVELY EXPOSED AREAS FOR WINTER STABILIZATION SHALL BE DONE WITH STRAW MATTING.

PERMIT FEES DURING THE WINTER PERIOD OF NON-CONSTRUCTION, (DECEMBER 1 THROUGH MARCH 31), SHALL NOT BE IMPOSED IF THE PERMIT HOLDER TEMPORARILY STABILIZES THE EXPOSED AREAS WITH STRAW MATTING, AND OTHER APPROVED CONTROLS, AND OBTAINS A WINTER STABILIZATION CERTIFICATE FROM THIS OFFICE.

PERIODIC INSPECTIONS WILL BE MADE THROUGHOUT THE COURSE OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE MANAGERS OF THE PROJECT TO CONTACT THIS OFFICE FOR THE FINAL INSPECTION AT THE END OF THE PROJECT

THIS COMMERCIAL PERMIT IS VALID FOR THE MASS EARTH MOVEMENT, THE INSTALLATION OF ROADS, DRAINS, AND UTILITIES AND IS NOT FOR ANY SINGLE FAMILY RESIDENCE. ALL RESIDENTIAL BUILDERS WILL NEED TO SECURE WAIVERS AND OR PERMITS AS NECESSARY FOR EACH LOT IN THIS DEVELOPMENT AT THE TIME APPLICATION FOR SINGLE FAMILY RESIDENCE IS MADE.

THE ISSUING BUILDING DEPARTMENT SHALL NOT ISSUE THE CERTIFICATE OF OCCUPANCY UNTIL THE FINAL INSPECTION LETTER FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE HAS BEEN OBTAINED.

PER THE LIVINGSTON COUNTY DRAIN COMMISSIONER THE SEEDING, FERTILIZER AND MULCH MINIMUM QUANTITIES SHALL BE AS FOLLOWS:

3" IN DEPTH TOP-SOIL GRASS SEED 210 LBS. PER ACRE

FERTILIZER 150 LBS. PER ACRE

TACKIFIER.

STRAW MULCH 3" IN DEPTH 1.5 TO 2 TONS PER ACRE (ALL MULCHING MUST HAVE A TIE DOWN, SUCH AS TACKIFIER, NET BINDING, ETC.)

HYDRO-SEEDING HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES EXCEEDING 1%, IN SUCH CASES STABILIZATION SHALL BE DONE WITH SEED AND STRAW MULCH WITH A

# SANITARY SEWERS

SAFETY.

SANITARY SEWER TAP TO THE LIVINGSTON SANITARY COUNTY DRAIN, SHALL ONLY BE MADE AFTER SECURING IN WRITING CLEARANCE FROM GENOA TOWNSHIP AND A SEWER TAP PERMIT FROM THE LIVINGSTON COUNTY DEPARTMENT OF BUILDING &

A TAP PERMIT WILL BE NEEDED BY THE OWNER/DEVELOPER OF THIS PROJECT TO TAP TO THE LEGALLY ESTABLISHED COUNTY STORM DRAIN. THE OWNER/DEVELOPER SHALL MAKE A WRITTEN REQUEST TO THE DRAIN COMMISSIONER TO REQUEST THE TAP TO THE STORM SEWER. THE FEES FOR SUCH TAP ARE AS FOLLOWS:

NON REFUNDABLE ADMINISTRATIVE FEE OF \$50.00, TO BE PAID AT THE TIME OF APPLICATION.

INSPECTION FEES ARE BASED ON TIME AND MATERIAL BASIS FROM PORT TO PORT FOR THE ON-SITE INSPECTOR. INSPECTORS RATE, VEHICLE MILEAGE, AND 0.5 HOURS OF REPORT PREPARATION TIME WILL BE CHARGED, AS WELL AS ANY NECESSARY MATERIALS. TIME AND MATERIAL FEES ARE PAID AT THE COMPLETION OF THE TAP INSTALLATION.

### **GENERAL LANDSCAPE NOTES:**

1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY AND SHALL BE NURSERY GROWN. ALL SIZES AND MEASUREMENTS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ALL PLANT MATERIAL SHALI BE OF SELECTED SPECIMEN QUALITY AND HAVE A NORMAL HABIT OF GROWTH. ALL PLANT MATERIAL IS SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.

2. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED STOCK OR CONTAINER STOCK. NO BARE ROOT STOCK IS PERMITTED. ALL PLANT BALLS SHALL BE FIRM, INTACT AND SECURELY WRAPPED AND BOUND.

3. ALL PLANT BEDS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND OTHER EXTRANEOUS OBJECTS AND POOR SOILS TO A MINIMUM DEPTH OF 12 INCHES AND BACKFILLED TO GRADE WITH PLANTING MIX (SEE

4. PLANTING MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL FROM ON SITE. 1 PART PEAT, AND 5 POUNDS OF SUPERPHOSPHATE PER CUBIC YARD OF MIX. INGREDIENTS SHALL BE THOROUGHLY BLENDED TO A UNIFORM CONSISTENCY.

5. ALL PLANT BEDS AND INDIVIDUAL PLANTS SHALL BE MULCHED WITH A 4 INCH LAYER OF SHREDDED BARK MULCH.

6. ALL PLANTS AND PLANT BEDS SHALL BE THOROUGHLY WATERED UPON COMPLETION OF PLANTING AND STAKING OPERATIONS.

7. THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 1 YEAR FROM THE DATE THE WORK IS ACCEPTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, WITHIN A SPECIFIED PERIOD TIME, ALL DEAD PLANTS, AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT DURING AND AT THE END OF THE GUARANTEE PERIOD. REPLACEMENT STOCK SHALL CONFORM TO THE ORIGINAL REQUIREMENTS.

8. EDGING, WHERE NOTED ON THE PLANS, SHALL BE BLACK ALUMINUM EDGING, 3/16" X 4". INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL EDGING SHALL BE INSTALLED IN STRAIGHT LINES OR SMOOTH CURVES WITHOUT IRREGULARITIES.

9. SOD SHALL BE DENSE, WELL ROOTED TURF, FREE OF WEEDS. IT SHALL BE COMPRISED OF A BLEND OF AT LEAST TWO KENTUCKY BLUEGRASSES AND ONE FESCUE. IT SHALL HAVE A UNIFORM THICKNESS OF 3/4 INCH, AND CUT IN UNIFORM STRIPS NOT LESS THAN 10 INCHES BY 18 INCHES. SOD SHALL BE KEPT MOIST AND LAID WITHIN 36 HOURS AFTER CUTTING.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ALL SODDED AREAS THAT BROWN OUT OR HAVE NOT FIRMLY KNITTED TO THE SOIL BASE WITHIN A PERIOD OF ONE MONTH SHALL BE REPLACED BY THE CONTRACTOR, AT NO COST TO THE OWNER.

10. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDED AND MULCHED.

SEED MIXTURE SHALL BE AS FOLLOWS:

KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES: ADELPHI, RUGBY, GLADE OR PARADE) RUBY RED OR DAWSON RED FINE FESCUE ATLANTA RED FESCUE

PENNFINE PERENNIAL RYE

THE ABOVE SEED MIXTURE SHALL BE SOWN AT A RATE OF 250 POUNDS PER ACRE. PRIOR TO SEEDING, THE TOPSOIL LAYER SHALL BE FERTILIZED WITH A COMMERCIAL FERTILIZER WITH A 10-0-10 ANALYSIS:

30%

30%

20%

20%

10% NITROGEN: A MINIMUM OF 25% FROM A UREAFORMALDEHYDE SOURCE 0% PHOSPHATE 10% POTASH: SOURCE TO BE POTASSIUM SULFATE OR POTASSIUM NITRATE.

THE FIRST FERTILIZER APPLICATION SHALL BE AT A RATE OF 10 POUNDS OF BULK FERTILIZER PER 1000 SQUARE FEET.

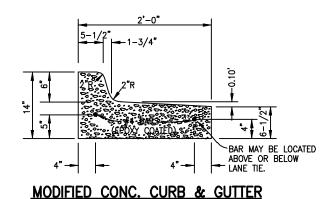
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ANY PART OF THE AREA THAT FAILS TO SHOW A UNIFORM GERMINATION SHALL BE RESEEDED AND SUCH RESEEDING SHALL CONTINUE UNTIL A DENSE LAWN IS ESTABLISHED. DAMAGE TO SEEDED AREAS RESULTING FROM EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

11. ALL AREAS OF THE SITE SCHEDULED FOR SEEDING OR SODDING SHALL FIRST RECEIVE A 4 INCH LAYER OF CLEAN, FRIABLE TOPSOIL. THIS SOIL SHALL BE DISCED AND SHALL BE GRADED IN CONFORMANCE WITH THE GRADING PLAN.

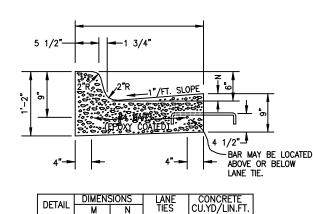
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AND TO INFORM THE LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCING LANDSCAPING.

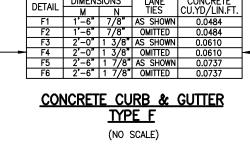
13. ALL PLANT MATERIALS SHALL BE FREE OF WEEDS, INSECTS AND DISEASE.

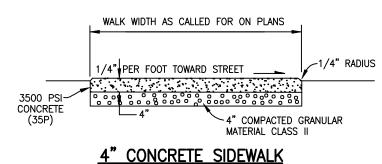
14. ALL LANDSCAPE AREAS ARE TO IRRIGATED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

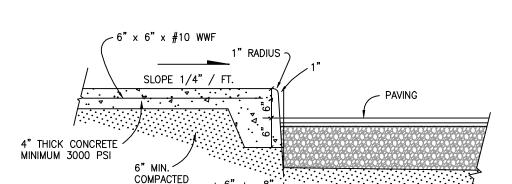


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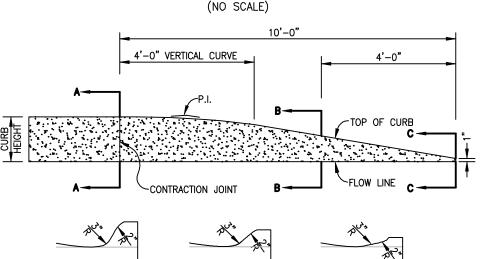




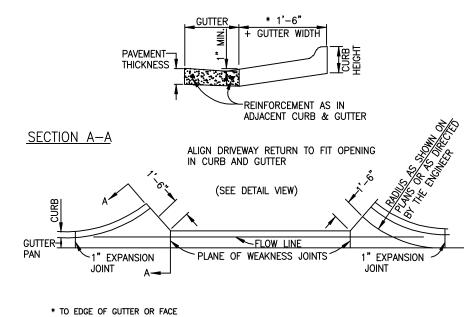




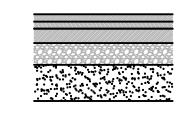
INTEGRAL CONCRETE WALK / CURB DETAIL



<u>CONCRETE CURB AND GUTTER ENDINGS</u>

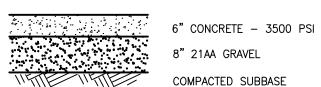


CONCRETE DRIVEWAY OPENING -MDOT STANDARD II-42, DETAIL IN

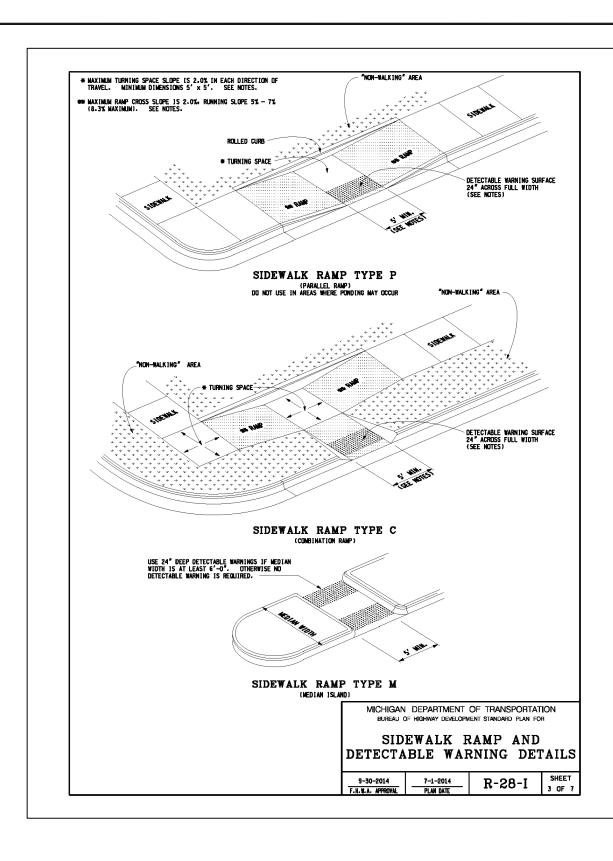


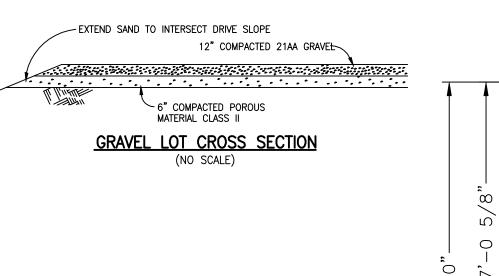
8" 21AA GRAVEL 12" MDOT CLASS II SAND SUBBASE

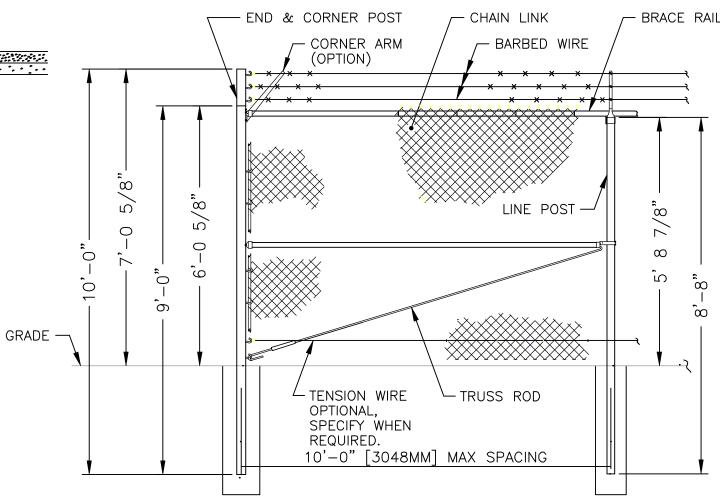
HEAVY DUTY ASPHALT SECTION (NO SCALE)



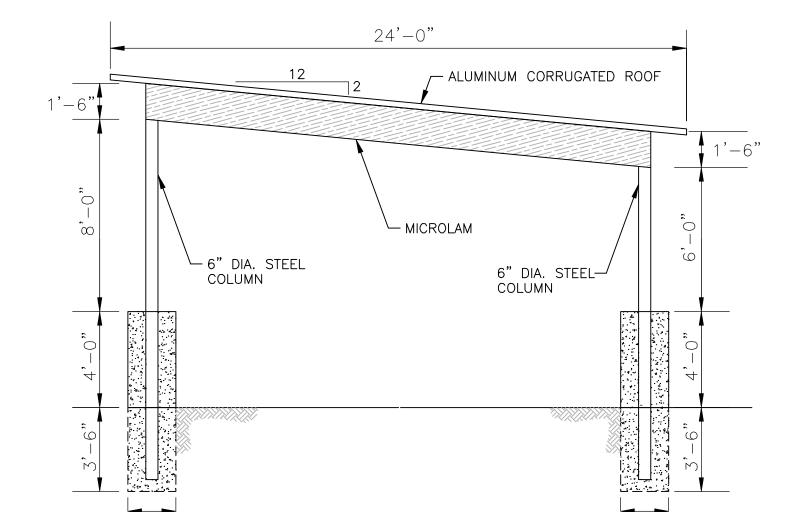
CONCRETE PAVEMENT CROSS SECTION (NO SCALE)





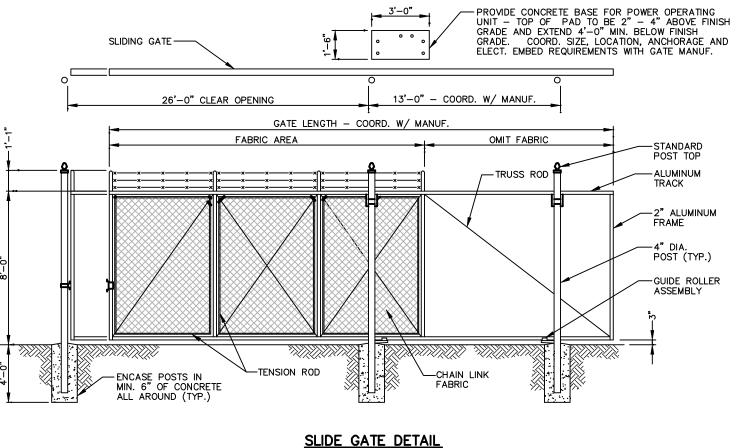


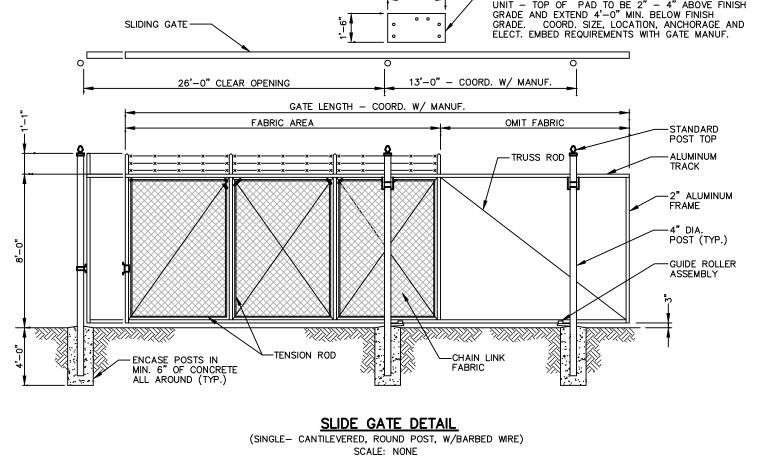
FENCE SECTION ELEVATION WITH TOP RAIL & WITH BARBED WIRE



LEAN-TO ELEVATION

(NO SCALE)



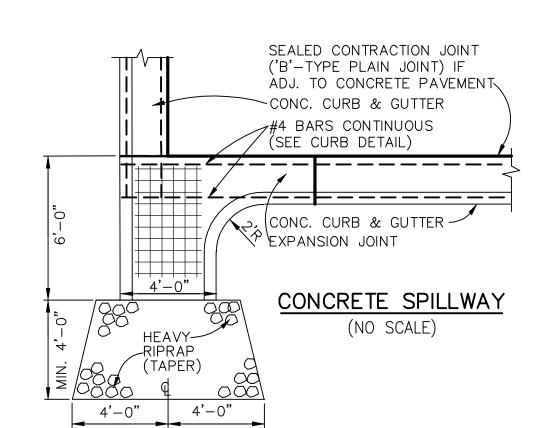


SIGNED BY: RAWN BY: HECKED BY: OB NO. **16-049** 03/30/16

SEA

ASIDE

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# 2012 MICHIGAN BUILDING CODE NOTES:

NON-SEPARATED MIXED USE GROUPS (508.3) OF: BUSINESS = B (304) AND WAREHOUSING = 5-1 (311.2)

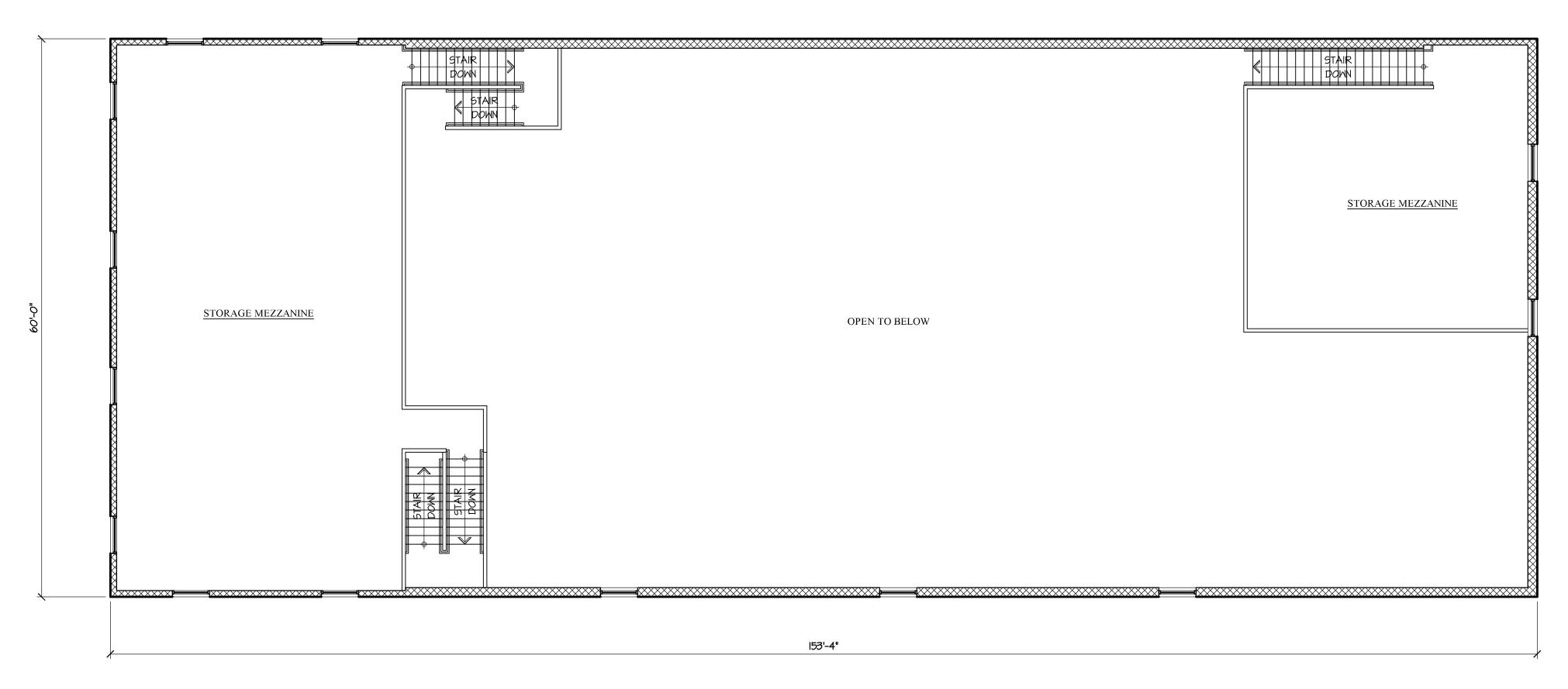
ALLOWABLE HEIGHT AND AREA (TABLE 503) WORST CASE SCENARIO (508.3.2) OF USE GROUPS (B) AND (S-I) AND A CONSTRUCTION TYPE = 5B (602.5) ALLOWABLE HEIGHT = I STORY / 40' MAX.

PROPOSED HEIGHT = 1 STORY / 23'-4" (COMPLIES)
ALLOWABLE AREA = 9,000 GSF
PROPOSED AREA = 8,777 GSF (PER THE BLDG. CODE - COMPLIES)

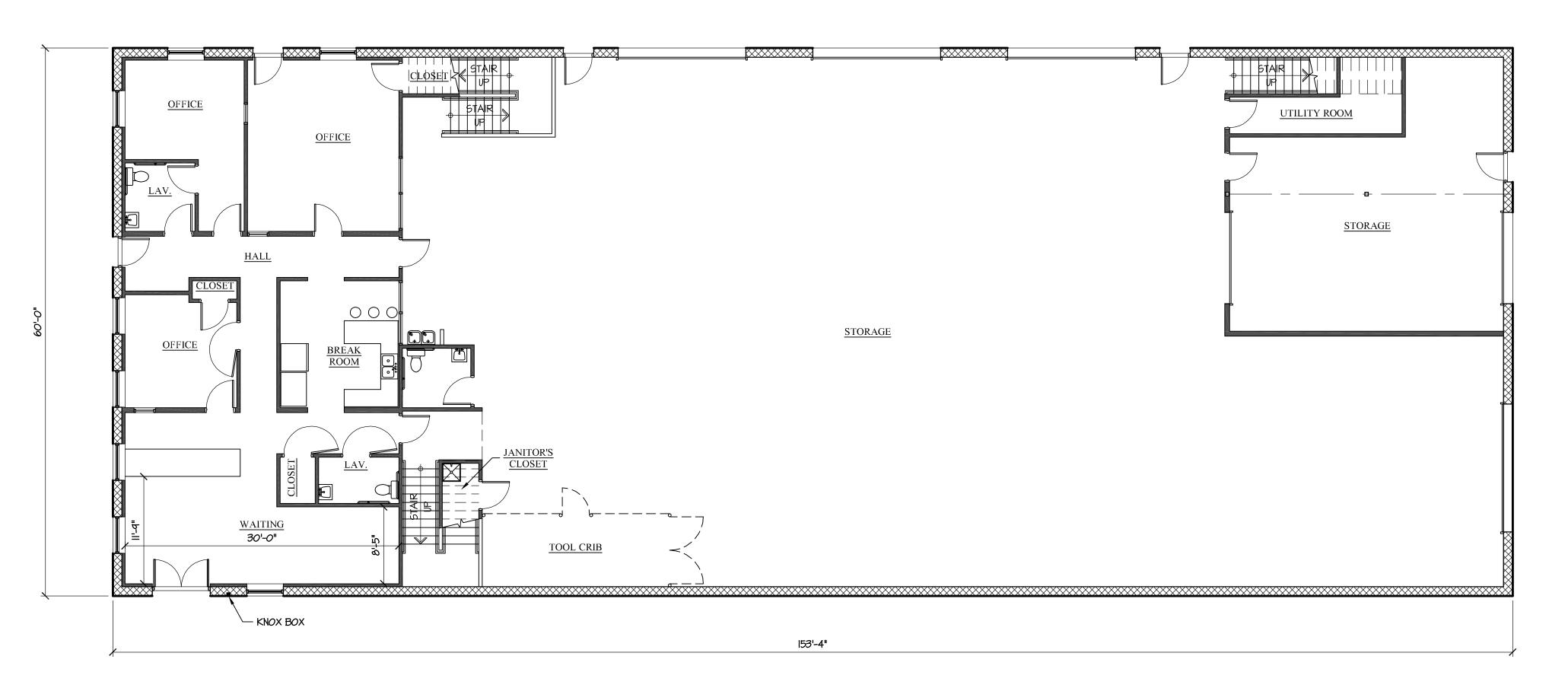
THE BUILDING IS <u>NOT</u> REQUIRED TO BE EQUIPPED WITH AN NFPA-13 FIRE SUPPRESSION SYSTEM PER: 903.2 FOR USE GROUP (B), 903.2 FOR USE GROUP (S-I)

ALL STORAGE SHALL BE LIMITED TO 12' HIGH MAX.

A FIRE ALARM SYSTEM IS <u>NOT</u> REQUIRED PER: 907.2.2 FOR USE GROUP (B) AND 907.2 FOR USE GROUP (S-I)



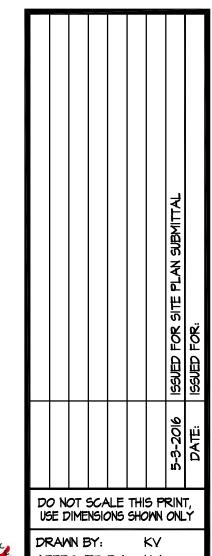




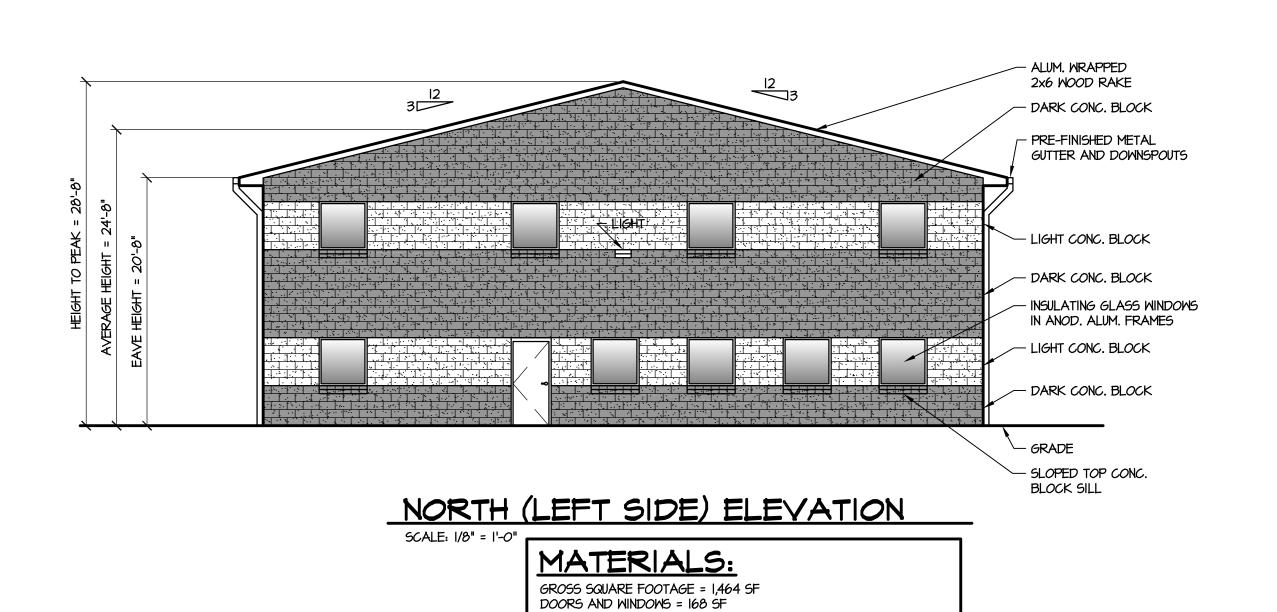












NET SQUARE FOOTAGE = 1,464 SF - 168 SF = 1,296 SF

SPLIT FACED CONC. BLOCK = 1,287 SF / 1,296 = 99% (COMPLIES)

# MATERIALS:

- DARK CONCRETE BLOCK = GRAND BLANC CEMENT PRODUCTS SPLIT-FACED CONCRETE BLOCK INTEGRAL COLOR = CHARCOAL (WITH SEALANT)

- LIGHT CONCRETE BLOCK = GRAND BLANC CEMENT PRODUCTS

SPLIT-FACED AND SMOOTH-FACED CONCRETE BLOCK (SEE ELEVATIONS)

INTEGRAL COLOR = LIGHT GREY (WITH SEALANT)

- SLOPED TOP CONCRETE BLOCK SILL = GRAND BLANC CEMENT PRODUCTS
SPLIT-FACED CONCRETE BLOCK FACE WITH SMOOTH SLOPED TOP
INTEGRAL COLOR TO MATCH SURROUNDING BLOCK (WITH SEALANT)

- WINDOWS = I" LOW-E INSULATING GLASS W GREY TINT IN CLEAR ANODIZED ALUMINUM FRAMES

- PRE-FINISHED METAL ROOFING, GUTTERS, FASCIAS, AND RAKES = "ATAS"; COLOR = DOVE GREY

- PRE-FINISHED METAL DOWNSPOUTS = COLOR TO MATCH DARK BLOCK

- HOLLOW METAL DOORS = PAINTED TO MATCH LIGHT BLOCK

- PRE-FINISHED INSULATED METAL OVERHEAD DOORS = COLOR TO MATCH LIGHT BLOCK

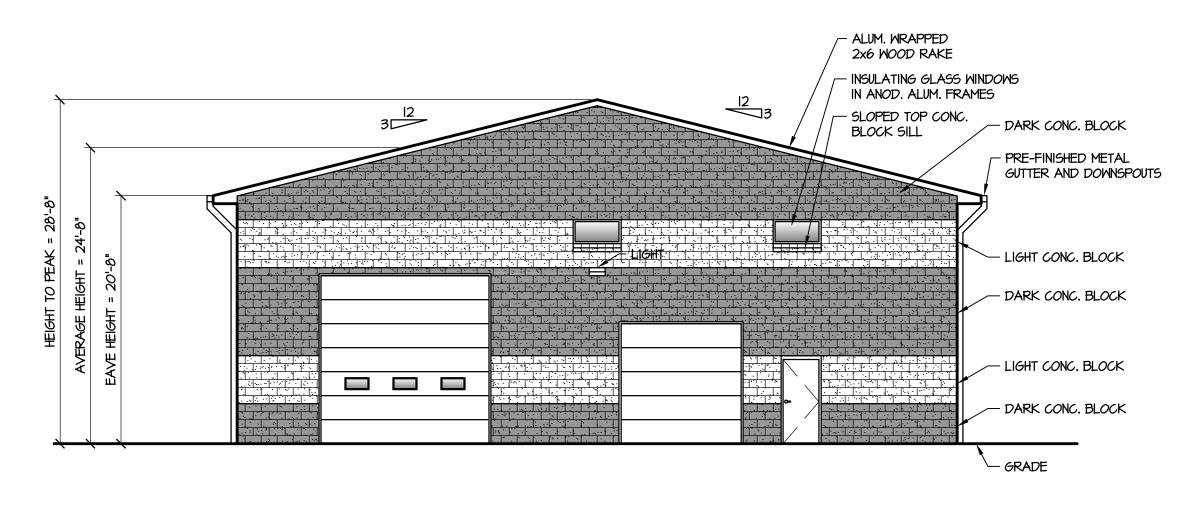
# TOWNSHIP REGULATIONS:

HEIGHT: 30 FT. / 2 STORIES MAX.

WALL SIGNS: AREA = 10% OF BUILDING FACADE OR 100 S.F. (WHICHEVER IS LESS) WEST FACADE = 3,067 S.F.  $\times$  0.10 =  $\frac{306}{5}$  S.F. = 100 S.F. MAX. WALL SIGNS SHALL NOT PROJECT MORE THAN 12" FROM THE WALL

NOTE: A MONUMENT SIGN IS NOT PROPOSED.

MATERIALS: SPLIT FACED CONCRETE BLOCK = 100% ALLOWABLE (ZONED: IND)

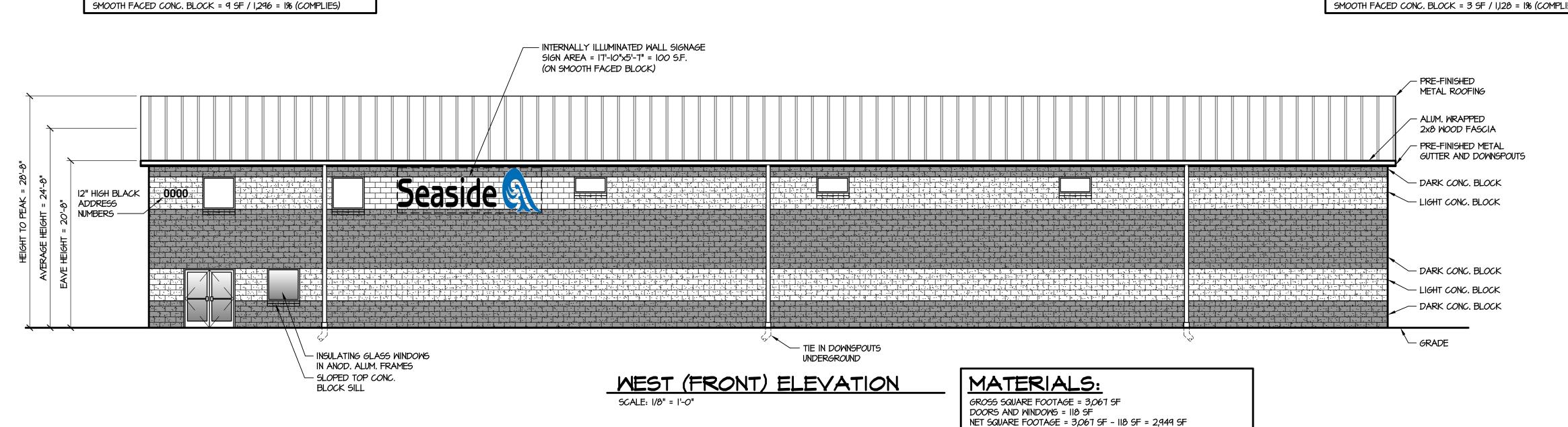


# SOUTH (RIGHT SIDE) ELEVATION

· ''-0"

SPLIT FACED CONC. BLOCK = 2,837 SF / 2,949 = 96% (COMPLIES) SMOOTH FACED CONC. BLOCK = 112 SF / 2,949 = 4% (COMPLIES) MATERIALS:

GROSS SQUARE FOOTAGE = 1,464 SF
DOORS AND WINDOWS = 336 SF
NET SQUARE FOOTAGE = 1,464 SF - 336 SF = 1,128 SF
SPLIT FACED CONC. BLOCK = 1,125 SF / 1,128 = 99% (COMPLIES)
SMOOTH FACED CONC. BLOCK = 3 SF / 1,128 = 1% (COMPLIES)





SHIP,
ARCHITECTURE + DESIGN + PLA

SOB E. GRAND RIVER AVE., SUITE 100B, BRIGHTON, M

Seaside Seawalls, MC SENDA SETTINE MICHIGA



# **GENOA CHARTER TOWNSHIP Application for Re-Zoning**

JUN 0 1 2016
RECEIVED

APPLICANT NAME: Joyce Oliveto ADDRESS: 963 Peaceful Ct OWNER NAME: Joyce Oliveto \_\_\_\_\_ ADDRESS: Brighton, MI 48114 PARCEL #(s): 4711-12-100-007,008,010,011,012,013 PRIMARY PHONE: (810) 599-1404 EMAIL I: rejoyce@comcast.net EMAIL 2: We, the undersigned, do hereby respectfully make application to and petition the Township Board to amend the Township Zoning Ordinance and change the zoning map of the township of Genoa as hereinafter requested, and in support of this application, the following facts are shown: A. REQUIRED SUBMITTAL INFORMATION 1. A legal description and street address of the subject property, together with a map identifying the subject property in relation to surrounding properties; 2. The name, signature and address of the owner of the subject property, a statement of the applicant's interest in the subject property if not the owner in fee simple title, and proof of consent from the property owner; 3. It is desired and requested that the foregoing property be rezoned from: to CE PRF and RR 4. A site plan illustrating existing conditions on the site and adjacent properties; such as woodlands, wetlands, soil conditions, steep slope, drainage patterns, views, existing buildings, sight distance limitations, relationship to other developed sites, and access points in the vicinity; 5. A conceptual plan demonstrating that the site could be developed with representative uses permitted in the requested zoning district meeting requirements for setbacks, wetland buffers access spacing, any requested service drives and other site design factors; 6. A written environmental assessment, a map of existing site features as described in Article 18 describing site features and anticipated impacts created by the host of uses permitted in the requested zoning district; 7. A written description of how the requested rezoning meets Sec. 22.04 "Criteria for Amendment of the Official Zoning Map." 8. The property in question shall be staked prior to the Planning Commission Public Hearing. B. DESCRIBE HOW YOUR REQUESTED RE-ZONING MEETS THE ZONING ORDINANCE CRITERIA FOR AMENDING THE OFFICIAL ZONING MAP: i. How is the rezoning consistent with the goals, policies and future land use map of the Genoa Township Master Plan, including any subareas or corridor studies. If not consistent, describe how conditions have changed since the Master Plan was adopted? Parcels are currently zoned RR and PRF. Applicant wishes to re-zone to CE. Future land use map indicates RR land use. Parcels are adjacent to existing AG zoning and future CE land use. Current property owner and potential buyers would like to keep horses on the property (allowed in CE zoning, not in RR or PRF zoning).

2.	Are the site's physical, geological, hydrological and other environmental features suitable for th host of uses permitted in the proposed zoning district?
P	roposed CE zoning allows horses to be kept on property and has less density than current
R	R and PRF zoning. The site's physical, geological and hydrological features are all suitable for
th	e proposed uses.
3.	Do you have any evidence that a reasonable return on investment cannot be received by developing the property with one (1) of the uses permitted under the current zoning?
Pı	roposed CE zoning has less density than the current RR and PRF zoning. Investment
	alue is not a concern for property owner.
4.	How would all the potential uses allowed in the proposed zoning district be compatible with surrounding uses and zoning in terms of views, noise, air quality, the environment, density, traffic impacts, drainage and potential influence on property values?
Th	nere will be a decrease in density and traffic impacts with the proposed zoning and
la	nd use. There may or may not be an impact to noise, air quality and property
va	alues. Views, environment and drainage will be unaffected.
5.	Are infrastructure capacity (streets, sanitary sewer, water, and drainage) and services (police and fire protection, etc.) sufficient to accommodate the uses permitted in the requested district?
Th	nere is sufficient infrastructure capacity and services to accommodate the proposed
us	es.
6.	Is there a demonstrated demand in Genoa Township or the surrounding area for the types of uses permitted in the requested zoning district? If yes, explain how this site is better suited for the zoning than others which may be planned or zoned to accommodate the demand.
Th	ere are potential buyers for the property that have expressed an interest in keeping horses
on	the property.
7.	If you have a particular use in mind, is another zoning district more appropriate? Why should the Township re-zone the land rather than amend the list of uses allowed in another zoning district to accommodate your intended use?
lf t	he township amended the list of uses for RR and PRF zoning to allow horses,
thi	s would apply to all parcels with RR or PRF zoning to allow horses. It would
be	simpler to re-zone the parcels to zoning that allows the desired uses.

There are two access easements located on the property. There are no other deed restrictions					
on the property that would affect the use.					
C. AFFIDAVIT					
The undersigned says that they are the owner (owner, lessee, or other specified interest) involved in this petition and that the foregoing answers and statements herein contained and the information herewith submitted are in all respects true and correct to the best of his/her knowledge and belief.					
BY: Joyce Oliveto					
ADDRESS: 963 Peaceful Ct, Brighton, MI 48114					
SIGNATURE					
The following contact should also receive review letters and correspondence:					
Name: Marc Jones Email: marcj@bosseng.com					
Business Affiliation: Boss Engineering, planning consultant					
FEE EXCEEDANCE AGREEMENT					
As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.					
PROJECT NAME: Oliveto property re-zoning					
PROJECT LOCATON & DESCRIPTION: Property at southeast corner of McClements Rd & Euler Rd					
SIGNATURE: DATE: 5-26-16					
PRINT NAME: JOYCE OLIVETO PHONE: (810) 599-1404					
COMPANY NAME & ADDRESS:					



July 5, 2016

Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP	
	Assistant Township Manager and Planning Director	
Subject: PRF and RR to CE Rezoning Review #2		
<b>Location:</b> Euler Road – east side of Euler, between McClements Road and Grand River		
Zoning: Rural Residential District; Public and Recreational Facility District		

#### Dear Commissioners:

At the Township's request, we have reviewed the revised submittal proposing the rezoning of 6 parcels under common ownership from RR Rural Residential (2 acre lot area) and PRF Public and Recreational Facilities to CE Country Estate (5 acre lot area).

In total, the parcels comprise approximately 64 acres of land, the smallest of which is a 5-acre parcel that is currently being processed for a lot reconfiguration to meet the minimum CE standards.

The proposal has been reviewed in accordance with the Genoa Township Zoning Ordinance and Master Plan.

#### A. SUMMARY

- 1. The proposed rezoning to CE is not wholly consistent with the Future Land Use Map; however, CE requires a larger lot size than the Master Plan and would result in less density, thus protecting the relatively rural character of this area.
- 2. Rezoning of the PRF parcels to CE would generally be consistent with the intent of the Master Plan classification of the property.
- 3. The host of permitted uses in RR (current) and CE (proposed) are nearly identical, except that CE allows for agricultural uses including the keeping of horses (which is the stated intent of the request).
- 4. Some of the agricultural uses allowed in CE could be impactful to nearby single-family residences.
- 5. The Township should consider any comments provided by the Township Engineer, Utilities Director and/or Fire Department for any comments related to infrastructure compatibility or capacity.

### B. PROCESS

As described in Article 22 of the Zoning Ordinance, the process to amend the Official Township Zoning Map is as follows:

- 1. The Township Planning Commission holds a public hearing on the rezoning and makes its recommendation to the Township Board.
- 2. The Livingston County Planning Commission reviews the request and makes its recommendation to the Township Board.
- 3. The Township Board considers the recommendations and takes action to grant or deny the rezoning request.

### C. PROJECT DESCRIPTION

The site is located on the east side of Euler Road, bounded on the north by McClements Road. Current zoning, as well as existing and planned land uses in the area are as follows:

	<b>Existing Land Use</b>	
Site	Single-family	Livrogene Strin 6
North	Single-family	H-12-1
East	Agriculture (NE) Single-family (SE)	- tour case
South	Single-family	
West	Institutional	
	Zoning	
Site	RR/PRF	A CANAL CONTRACT OF THE CANAL CONTRACT OF TH
North	AG	MCCLEMENTS ROAD RR
East	RR, PRF, LDR	SR
South	PRF	LPR-
West	PRF	CE RR
	Master Plan	PRICE
Site	Large Lot Rural Residential	
North	Agriculture/ Country Estate	MCCURRETS  MCCURRETS  ORROWS
East	Low Density Residential	
South	Large Lot Rural Residential	
West	Large Lot Rural Residential	FACE  OCCUPY  THE PACE  THE PACE  OCCUPY  THE PACE  TH

Genoa Township Planning Commission **PRF and RR to CE Rezoning** Review #2 Page 3

### D. REZONING REVIEW

1. Consistency with the goals, policies and future land use map of the Genoa Township Master Plan, including any subarea or corridor studies. If conditions have changed since the Master Plan was adopted, the consistency with recent development trends in the area.

The Township Master Plan and Future Land Use map identify the site and adjacent property to the south and west as Large Lot Rural Residential, which calls for residential properties of not less than 2 acres. Two of the six parcels are currently zoned RR, which is consistent with this classification. The proposed rezoning to CE is more consistent for the remaining four parcels that are currently zoned PRF.

While not wholly consistent with the Master Plan, the proposal for CE zoning is less dense than what the Master Plan calls for.

2. Compatibility of the site's physical, geological, hydrological and other environmental features with the host of uses permitted in the proposed zoning district.

The subject area contains two ponds and two wetland areas. Generally speaking, a proposal for less density than would otherwise be allowed is likely to decrease any potential impacts upon these environmental features.

3. The ability of the site to be reasonably developed with one (1) of the uses permitted under the current zoning.

In our opinion, rezoning the PRF parcels to a residential designation makes sense and is generally consistent with the intent of the Master Plan. For the other parcels, the primary distinction between the existing (RR) and proposed (CE) zoning is the inclusion of agricultural uses in the proposed district.

We see no reason why the site could not be developed under RR; however, the stated intent of the request is to allow the keeping of horses, which is not permitted in RR, but is in CE.

4. The compatibility of all the potential uses allowed in the proposed zoning district with surrounding uses and zoning in terms of land suitability, impacts on the environment, density, nature of use, traffic impacts, aesthetics, infrastructure and potential influence on property values.

Review of Table 3.03 indicates that the host of permissible uses is nearly identical with the primary distinction between RR and CE being the allowance for more agricultural uses. While not necessarily intense by nature, some of these uses could have impacts upon established residential uses in the area, particularly those adjacent to the east.

5. The capacity of Township infrastructure and services sufficient to accommodate the uses permitted in the requested district without compromising the "health, safety and welfare" of the Township.

We defer to the Township Engineer, Utilities Director and Fire Department for comment under this criterion.

6. The apparent demand for the types of uses permitted in the requested zoning district in the Township in relation to the amount of land in the Township currently zoned to accommodate the demand.

In response to this criterion, the submittal notes that "there are potential buyers for the property that have expressed an interest in keeping horses on the property."

Genoa Township Planning Commission **PRF and RR to CE Rezoning** Review #2 Page 4

7. Where a rezoning is reasonable given the above criteria, a determination the requested zoning district is more appropriate than another district or amending the list of permitted or Special Land Uses within a district.

In this particular instance, we believe that rezoning the PRF parcels to a low density residential designation is reasonable. Meanwhile, the proposed change from RR to CE is not wholly consistent with the Master Plan designation, but does result in a lower density.

As a result of the lot reconfiguration, each of the subject parcels will comply with CE dimensional standards.

8. The request has not previously been submitted within the past one (1) year, unless conditions have changed or new information has been provided.

We are unaware of any rezoning applications associated with this site within the past year.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a>.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP Planning Manager



June 14, 2015

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

**Re:** Oliveto Rezoning Review

Dear Ms. Van Marter:

We have reviewed the rezoning application for the property owned by Joyce Oliveto dated May 27, 2016, from Boss Engineering. The site is located on the east side of Euler Road between McClements and Kemper Roads. The petitioner would like to have the current zoning designations of rural residential (RR) and public and recreational facilities (PRF) changed to country estates (CE) to allow current and future property owners to own horses on the land.

The petitioner argues that the adjacent sites to the south consist of CE parcels and that this change will not result in any other significant impact to the current developments in the area.

Tetra Tech has reviewed the documents and did not find any engineering issues regarding site drainage or water and sewer utilities that would arise from this change in zoning classification. The parcel is served by public roads and the proposed change in zoning would have minimal impact to this public transportation system. Therefore, we have no engineering related objections to the proposed rezoning.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

copy: Marc Jones P.E., Boss Engineering

# Amy Ruthig

From:	Richard Boisvert <rboisvert@brightonareafire.com></rboisvert@brightonareafire.com>
Sent:	Wednesday, June 29, 2016 4:26 PM
To:	Kelly VanMarter
Cc:	Amy Ruthig
Subject:	Re: No comments
Attachments:	Victory Dr Seaside Seawalls, LLC (SP) 06282016.docx; 7669 Brighton Rd Brighton Church of Nazarene Storage Bldg (SP) 06282016.docx; 2300 E. Grand River - Livingston County Complex Carport (SP) 06282016.docx; 5866 E. Grand River - Wilson Marine Showroom & Storage Bldgs. (SP) 06282016.docx; 2798 E. Grand River - Bob Maxey Ford Parking Lot Exp. (SP) 06282016.docx
Kelly & Amy,	
	For the re-submittals received. The only one not included is the Oliveto Re-zoning as egarding this unless they propose development.
Rick,	
If you would just send a sufficient.	a quick e-mail with the cases that you have no further comments on listed that is
Thank you!	
Kelly VanMarter, AlCI	
Assistant Township Ma	mager/Community Development Director
Genoa Charter Townsh	ip
2911 Dorr Road, Bright	con, Michigan 48116
Direct: (810) 588-6900	Phone: (810) 227-5225, Fax: (810) 227-3420

E-mail: kelly@genoa.org, Url: www.genoa.org

# IMPACT ASSESSMENT FOR OLIVETO PROPERTY RE-ZONING GENOA TOWNSHIP LIVINGSTON COUNTY, MI

Prepared for:

Joyce Oliveto 963 Peaceful Court Brighton, MI 48114

Prepared by:

BOSS ENGINEERING COMPANY 3121 EAST GRAND RIVER AVE HOWELL, MICHIGAN 48843 517-546-4836 BE Project No. 16-170

> June 1, 2016 Revised June 22, 2016

### INTRODUCTION

The purpose of this Impact Assessment (IA) report is to show the effect that this proposed re-zoning has on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements For Impact Assessment/Impact Statement* guidelines in accordance with Section 13.05 of the published Zoning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared By: BOSS ENGINEERING COMPANY 3121 E. Grand River Howell, Michigan 48843 Phone: 517-546-4836

Prepared For: Joyce Oliveto 963 Peaceful Court Brighton, MI 48114 Phone: 810-599-1404

B. Description of the site, including existing structures, man made facilities, and natural features, all-inclusive to within 10' of the property boundary.

The subject site is located on the east side of Euler Road, bounded on the north by McClements Road. The re-zoning is to take place on properties owned by Joyce Oliveto. The parcel numbers are: 4711-12-100-007, 4711-12-100-008, 4711-12-100-010, 4711-12-100-011, 4711-12-100-012, 4711-12-100-013. The boundary between parcels 4711-12-100-008 and 4711-12-100-010 are in the process of a land division that will be adjusted so that all properties in the re-zoning application will meet the 5-acre minimum lot size. The property is located in the Northwest ¼ of Section 12, T2N-R5E, Genoa Township, Livingston County, Michigan. Current zoning of the site is RR (Rural Residential) and PRF (Public and Recreational Facilities).

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development, i.e., topography, soils, vegetative cover, drainage, streams, creeks or ponds.

The site is gently rolling with areas of steeper slopes and generally slopes from all parcels to an existing pond located near Euler Road on parcel #4711-12-100-008.

D. Impact on storm water management: description of soil erosion control measures during construction.

Stormwater management and soil erosion will be unaffected by the proposed re-zoning.

E. Impact on surrounding land use: Description of proposed usage and other man made facilities; how it conforms to existing and potential development patterns. Effects of added lighting, noise or air pollution which could negatively impact adjacent properties.

The applicant is proposing to re-zone the subject properties to allow horses to be kept on the properties. There may or may not be a slight impact on noise, air quality and property values.

F. Impact on public facilities and services: Description of number of residents, employees, patrons, and impact on general services, i.e., schools, police, fire.

There will be no impact on public facilities and services, as the density of the properties will decrease. There are sufficient services to accommodate the proposed use.

G. Impact on public utilities: Description of public utilities serving the project, i.e., water, sanitary sewer, and storm drainage system. Expected flows projected in residential units.

There will be no impact on public utilities, as the density of the properties will decrease. There is sufficient capacity to accommodate the proposed use.

H. Storage or handling of any hazardous materials: Description of any hazardous materials used, stored, or disposed of on-site.

The subject properties will not be storing or handling any hazardous materials.

I. Impact on traffic and pedestrians: Description of traffic volumes to be generated and their effect on the area.

There will be a decrease in density with the proposed re-zoning which will result in a slight decrease in the amount of traffic.

J. Special provisions: Deed restrictions, protective covenants, etc.

There are existing access easements located on the property.

- K. Description of all sources:
  - Genoa Township Zoning Ordinance
  - 2013 Genoa Township Master Plan Update
  - Livingston County Information Technology Department, GIS map

### **Amy Ruthig**

From:

LA <lsalley@gmail.com>

Sent:

Thursday, June 23, 2016 8:59 PM

To: Cc: Amy Ruthig Don Alley

Subject:

**Country Estate Rezoning Request** 

June 23, 2016

Hello Amy,

I don't have Marc Jones' (Boss Engineering) email and if you could forward this message that would be great.

We own property on Euler Road in Genoa Township. Our parcel number is 4711-12-100-009. We understand some of our neighbors are interested in rezoning this area to be "Country Estate".

We would like our property to be included in this rezoning initiative so that it is also zoned as Country Estate.

Thank you,

Donald and Linda Alley

248.719.3416

Lsalley@gmail.com

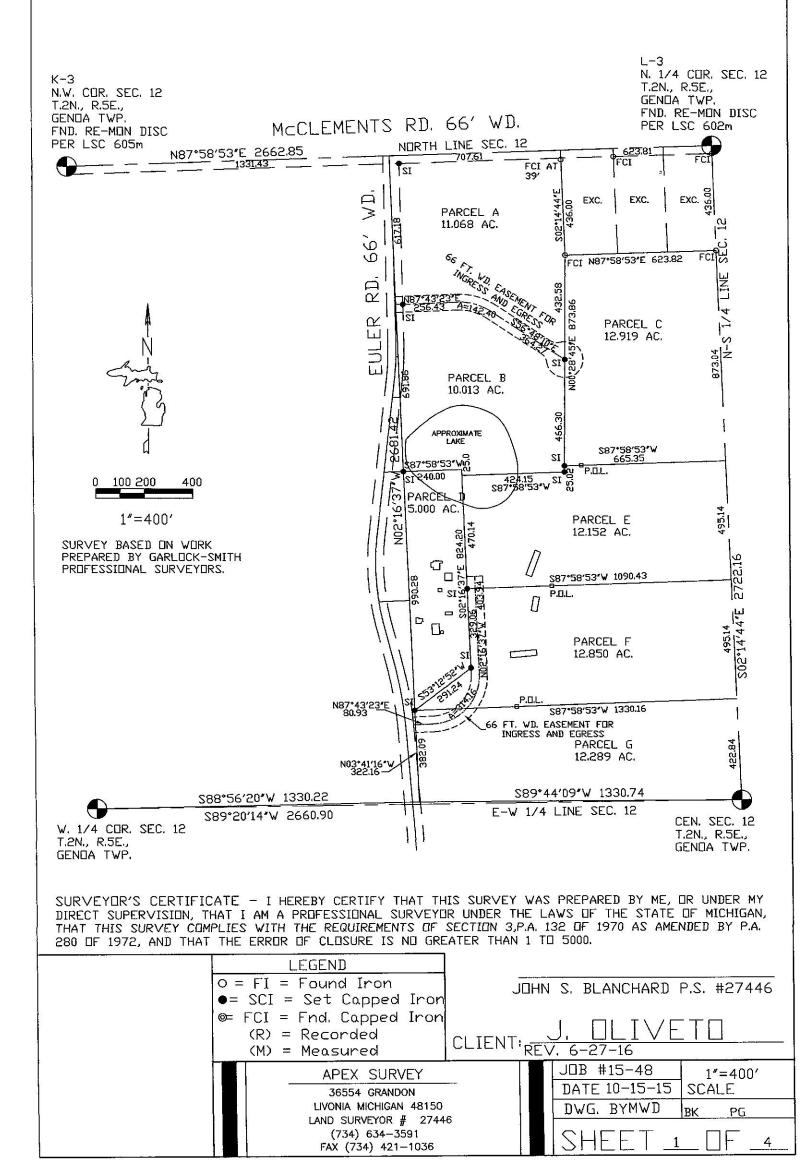
Djalley@gmail.com

# GENOA TOWNSHIP COMBINATION APPLICATION (Line Change)

NAME: Joyce Oli veto
ADDRESS: 963 Peaceful Ct.
Brighton MI  TELEPHONE: 810-220-2088 810-5-99-1404
TAXID#'S: 11-12-100.010 (Parcel D) 11-12-100.012 (Parcel F)
YOU MUST HAVE THE FOLLOWING IN ORDER TO HAVE A COMPLETED APPLICATION:
A. NAME & SIGNATURES OF ALL OWNERS OR AUTHORIZED AGENTS
<ul> <li>B. A LEGAL DESCRIPTION OF EACH PARCEL INTO WHICH THE PROPERTY IS TO BE DIVIDED PERPARED BY A REGISTERED LAND SURVEYOR. SHOWING:  1. ALL DIMENSIONS OF THE EXISTING AND PROPOSED PARCELS. 2. LOCATION OF ALL BUILDINGS AND SETBACKCKS FROM LOT LINES (THIS MUST MEET CURRENT ZONING SETBACKS)</li> <li>3. PROPOSED SETBACK LIMITSWITHIN EACH PARCEL WITH DIMENSIONS (ENVELOPE)</li> <li>4. A QUALIFIED WETLAND CONSULTANT SHALL ILLUSTRATE BOUNDARIES OF ANY WATER BODY OR WETLAND, WHICH MAY BE REGULATED BY THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, WITH SUPPORTING DOCUMENTATION.</li> <li>5. PROPOSED PUBLIC UTILITIES AND ACCESS EASEMENT LOCATIONS, WITH DIMENSIONS.</li> <li>C. ARETHER! ANY SPECIAL ASSESSMENTS ON THE PARENT PARCEL?</li> </ul>
YESNO
IF YES HAS THAT ASSESSMENT BEEN PAID IN FULL? YESNO
Petitioners Signatures: Date: 6 29 16

ASSESSORS OFFICE COLORS
TOWNSHIP MANAGER Kully Fall 1 6/2
TREASURERS OFFICE: Carlos Have specials been paid off? Yes NO NO NO
UTILITY OFFICE: NA ARE UTILITIES UP TO DATE? YES NO
APPROVED: YES_X NO
NEW PARCEL NUMBERS:
11-12-100-010 (Parcel D) 11-12-100-012 (Parcel 1)
COMMENTS:

## CERTIFIED SURVEY



### LEGAL DESCRIPTION

PARCEL A
A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENOA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 623.81 FEET TO THE POINT OF BEGINNING; THENCE S02°14′44″E, 436.00 FEET; THENCE S00°28′45″W, 432.58 FEET; THENCE N56°48′10″W, 364.27 FEET; THENCE 142.40 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 230.00 FEET AND A CHORD BEARING N74°32′23″W, 140.14 FEET; THENCE S87°43′23″W, 256.43 FEET; THENCE N02°16′37″W, 617.18 FEET TO SAID NORTH LINE AND CENTERLINE; THENCE N87°58′53″E, ALONG SAID NORTH LINE AND CENTERLINE, 707.61 FEET TO THE POINT OF BEGINNING.

CONTAINING 11.068 ACRES OF LAND MORE OR LESS.

SUBJECT TO THE RIGHTS OF THE PUBLIC OVER THE NORTHERLY 33 FEET FOR McCLEMENTS ROAD AND THE WESTERLY PORTION FOR EULER ROAD. ALSO SUBJECT TO A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS:
COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE \$87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 1331.42 FEET; THENCE \$02°16′37″E, 617.18 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E, 256.43 FEET; THENCE 142.40 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 230.00 FEET AND A CHORD BEARING \$74°32′23″E, 140.14 FEET; THENCE \$56°48′10″E, 364.27 FEET TO THE CENTER OF A 75 FEET RADIUS CUL-DE-SAC AND THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

PARCEL B
A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENOA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 623.81 FEET; THENCE S02°14′44″E, 436.00 FEET; THENCE S00°28′45″W, 432.58 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S00°28′45″W, 466.30 FEET; THENCE S87°58′53″W, 424.15 FEET; THENCE N02°16′37″W, 25.00 FEET; THENCE S87°58′53″W, 240.00 FEET; THENCE N02°16′37″W, 691.86 FEET; THENCE N87°43′23″E, 256.43 FEET; THENCE 142.40 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 230.00 FEET AND A CHORD BEARING S74°32′23″E, 140.14 FEET; THENCE S56°48′10″E, 364.27 FEET TO THE POINT OF BEGINNING.

CONTAINING 10.013 ACRES OF LAND MORE OR LESS.

SUBJECT TO THE WESTERLY PORTION FOR EULER ROAD. ALSO SUBJECT TO A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS: COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE S87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 1331.42 FEET; THENCE S02°16′37″E, 617.18 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E, 256.43 FEET; THENCE 142.40 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 230.00 FEET AND A CHORD BEARING S74°32′23″E, 140.14 FEET; THENCE S56°48′10″E, 364.27 FEET TO THE CENTER OF A 75 FEET RADIUS CUL-DE-SAC AND THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

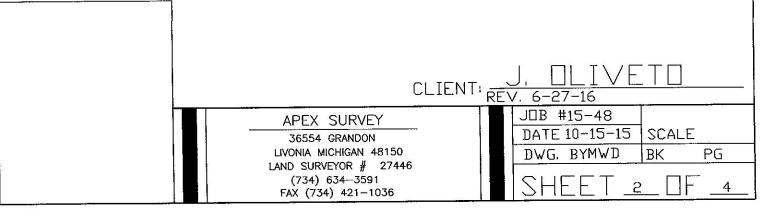
PARCEL C A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENDA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S02°14′44″E, ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 12, 436.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S02°14′44″E, ALONG SAID NORTH-SOUTH 1/4 LINE, 873.04 FEET; THENCE S87°58′53″W, 665.35 FEET; THENCE N00°28′45″E, 873.66 FEET; THENCE N87°58′53″E, 623.82 FEET TO THE POINT OF BEGINNING.

CONTAINING 12.919 ACRES OF LAND MORE OR LESS.

SUBJECT TO AND TOGETHER WITH A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS: COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE S87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 1331.42 FEET; THENCE S02°16′37″E, 617.18 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E, 256.43 FEET; THENCE 142.40 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 230.00 FEET AND A CHORD BEARING S74°32′23″E, 140.14 FEET; THENCE \$56°48′10″E, 364.27 FEET TO THE CENTER OF A 75 FEET RADIUS CUL-DE-SAC AND THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.



### LEGAL DESCRIPTION

PARCEL D
A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENOA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S87°58′53″W, ALONG THE NORTH LINE OF SAID SECTION 12 AND THE CENTERLINE OF McCLEMENTS ROAD, 66 FEET WIDE, 623.81 FEET; THENCE S02°14′44″E, 436.00 FEET; THENCE S00°28′45″W, 898.88 FEET; THENCE S87°58′53″W, 424.15 FEET TO THE POINT OF BEGINNING; THENCE S02°16′37″E, 799.20 FEET; THENCE S53°12′52″W, 291.24 FEET; THENCE N02°16′37″W, 990.28 FEET; THENCE N87°58′33″E, 240.00 FEET; THENCE S02°16′37″E, 25.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 5.000 ACRES OF LAND MORE OR LESS.

SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

PARCEL E

A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENDA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S02°14′44″E, ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 12, 1309.04 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S02°14′44″E, ALONG SAID NORTH-SOUTH 1/4 LINE, 495.14 FEET; THENCE S87°58′53″W, 1090.43 FEET; THENCE N02°16′37W, 470.14 FEET; THENCE N87°58′53″E, 424.15 FEET; THENCE N00°28′45″E, 25.02 FEET; THENCE N87°58′53″E, 665.35 FEET TO THE POINT OF BEGINNING.

CONTAINING 12.152 ACRES OF LAND MORE OR LESS.

SUBJECT TO AND TOGETHER WITH A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS:
COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE S02°14′44″E, ALONG THE N-S 1/4
LINE OF SAID SECTION 12, 2722.16 FEET TO THE CENTER OF SAID SECTION 12, THENCE S89°44′09″W,
1330.74 FEET; THENCE N03°41′16″W, 322.16 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E,
80.93 FEET; THENCE 314.16 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF
200.00 FEET AND A CHORD BEARING N42°43′23″E, 282.84 FEET; THENCE N02°16′37″W, 403.94 FEET TO
THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

PARCEL F A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENDA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S02°14′44″E, ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 12, 1804.18 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S02°14′44″E, ALONG SAID NORTH-SOUTH 1/4 LINE, 495.14 FEET; THENCE S87°58′53″W, 1330.16 FEET; THENCE N53°12′52″E, 291.24 FEET; THENCE N02°16′37″W, 329.06 FEET; THENCE N87°58′53″E, 1090.43 FEET TO THE POINT OF BEGINNING.

CONTAINING 12.850 ACRES OF LAND MORE OR LESS.

SUBJECT TO AND TOGETHER WITH A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS: COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE S02°14′44″E, ALONG THE N-S 1/4 LINE OF SAID SECTION 12, 2722.16 FEET TO THE CENTER OF SAID SECTION 12, THENCE S89°44′09″W, 1330.74 FEET; THENCE N03°41′16″W, 322.16 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E, 80.93 FEET; THENCE 314.16 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 200.00 FEET AND A CHORD BEARING N42°43′23″E, 282.84 FEET; THENCE N02°16′37″W, 403.94 FEET TO THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

CLIENT	- REV	J. <u>DLIVE</u> 7. 6-27-16	TD
APEX SURVEY  36554 GRANDON LIVONIA MICHIGAN 48150 LAND SURVEYOR # 27446  (734) 634-3591 FAX (734) 421-1036		JOB #15-48 DATE 10-15-15 DWG. BYMWD SHEET 3	SCALE BK PG

### LEGAL DESCRIPTION

PARCEL G A PARCEL OF LAND IN THE N.W. 1/4 OF SECTION 12, T.2N., R.5E., GENDA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN, DESCRIBED AS:

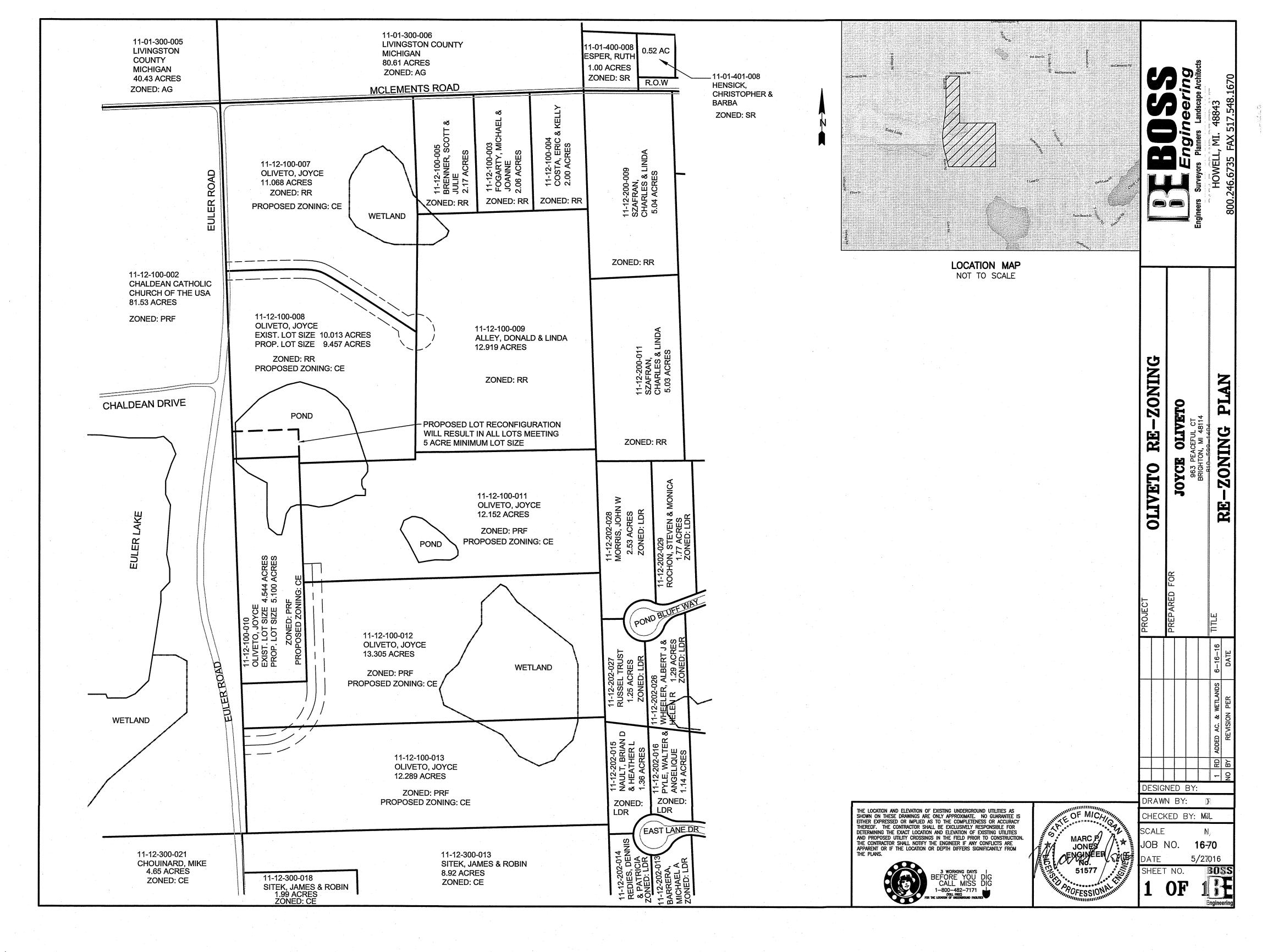
COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12; THENCE S02°14'44"E, ALONG THE NORTH-SOUTH 1/4 LINE OF SAID SECTION 12, 2299.32 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING S02°14'44"E, ALONG SAID NORTH-SOUTH 1/4 LINE, 422.84 FEET TO THE CENTER OF SAID SECTION 12; THENCE S89°44'09"W, 1330.74 FEET; THENCE N02°16'37"W, 382.09 FEET; THENCE N87°58'53"E, 130.16 FEET TO THE POINT OF BEGINNING.

CONTAINING 12.289 ACRES OF LAND MORE OR LESS.

SUBJECT TO AND TOGETHER WITH A 66 FEET WIDE EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES, THE CENTERLINE BEING DESCRIBED AS;
COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 12, THENCE S02°14′44″E, ALONG THE N-S 1/4 LINE OF SAID SECTION 12, 2722.16 FEET TO THE CENTER OF SAID SECTION 12, THENCE S89°44′09″W, 1330.74 FEET; THENCE N03°41′16″W, 322.16 FEET TO THE POINT OF BEGINNING; THENCE N87°43′23″E, 80.93 FEET; THENCE 314.16 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 200.00 FEET AND A CHORD BEARING N42°43′23″E, 282.84 FEET; THENCE N02°16′37″W, 403.94 FEET TO THE POINT OF ENDING.

ALSO SUBJECT TO ANY EASEMENTS OR RESTRICTIONS OF RECORD.

CLIEN	۱T: <del>RE</del>	J. <u>DLIVE</u> v. 6-27-16	TO
APEX SURVEY		JOB #15-48	
36554 GRANDON		DATE 10-15-15	SCALE
LIVONIA MICHIGAN 48150		DWG. BYMWD	BK PG
LAND SURVEYOR # 27446 (734) 634-3591 FAX (734) 421-1036		SHEET 4	F4





# GENOA CHARTER TOWNSHIP Application for Site Plan Review

GENOA TOWNSHIP

JUN 0 1 2016

RECEIVED

### TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

APPLICANT NAME & ADDRESS: Livingston County Building Department
If applicant is not the owner, a letter of Authorization from Property Owner is needed.
OWNER'S NAME & ADDRESS: Livingston County - Jim Rowell
SITE ADDRESS: 2300 E. Grand River Ave., Howeli, MI 48843 PARCEL #(s): 4711-06-100-039  APPLICANT PHONE: 571, 546-3240 OWNER PHONE: 571, 546-3240
APPLICANT PHONE: (-571) 546-3240 OWNER PHONE: (-571) 546-3240
OWNER EMAIL: irowell@livgov.com
LOCATION AND BRIEF DESCRIPTION OF SITE:
0.11 miles east of the Chilson Road intersection. The subject property has a total area of 27.97 acres and located in the general commercial district.
The adjacent properties to the north and west are also within the general commercial district, while the property to the east is suburban
residential, and the property to the south is within the public and recreational facilities district.
BRIEF STATEMENT OF PROPOSED USE: The proposed use for the development is continued use a parking lot
but expand the lot 1 row to create a carport area. The parking lot will also have a new sliding security gate at it entrance and
new LEO cut-off type lighting for the parking lot and under the carport area. The project will also replace the existing screen fence
with a new fence (approximately 400 lineal feet).
THE FOLLOWING BUILDINGS ARE PROPOSED: Carport Structure for ASpaces
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY: MESMULL 5/27/2016
ADDRESS: 2300 E. Grand River Ave., Howell, MI 48843

L) Brent LaVanway	ew Letters and Correspondence shall be for of Boss Engineering	ar brentl@bosseng.com
Name	Business Affiliation	G-mail Address
	FEE EXCEEDANCE AGREEM	ÍENT
As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Pianning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.		
SIGNATURE:	MULLI DATE:	5/07/2016
	ROWELL PHONE	517-552-6725
PRINT NAME UIM	PHUNE:	G - / G - / - /



Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP	
	Assistant Township Manager and Planning Director	
Subject: Livingston County – Site Plan Review #2		
<b>Location:</b>	2300 E. Grand River Avenue – South of Grand River, west of Chilson Road	
Zoning: GCD General Commercial District		

### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 6/22/16) proposing a parking lot expansion and construction of a carport at the rear of the Livingston County complex. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Zoning Ordinance.

### A. Summary

- 1. We request the applicant present the Commission with material and color samples for the carport structure.
- 2. The applicant must provide calculation to ensure the project does not result in excessive parking.
- 3. The applicant must remove the note on Sheet C4 that a dumpster enclosure is not proposed.
- 4. There are inconsistencies in the size/shape of the dumpster enclosure and base pad between Sheets C4 and C7 that need to be corrected.
- 5. The proposed dumpster is located within an easement; however, the applicant has indicated that they have received approval from the County Drain Commissioner's Office for this placement.

### B. Proposal/Process

The applicant requests site plan review and approval to expand an existing parking lot by 24 spaces and construct a carport for the new spaces. The project also includes new lighting, relocation of an existing waste receptacle and new screen fencing.

Public government buildings and related parking lots are permitted by right in the GCD. Parking lot additions of 5 spaces or more require site plan review and approval by the Planning Commission.

### C. Site Plan Review

**1. Dimensional Requirements.** Given the limited scope of the project, the only applicable dimensional standards are parking lot setback and impervious surface coverage.

The proposed parking lot expansion is located well outside of minimum setback requirements and the revised plans confirm compliance with the impervious surface restriction.

**2. Structure Design.** The proposed carport structure is to be constructed of metal (roof and support columns). The applicant has indicated that they will present the Commission with a material and color sample board at the upcoming meeting.



Aerial view of site and surroundings (looking north)

**3. Parking.** The revised submittal provides a description of existing parking, but does not provide sufficient detail to determine the amount of parking required by Ordinance. Given the proposed increase in parking, this information is necessary to ensure the project does not result in excessive parking per Section 14.02.06.

The proposed spaces comply with the dimensional/design standards of the Ordinance and more barrier-free spaces are provided than required.

- **4. Pedestrian Circulation.** There is an existing sidewalk connecting the parking lot and building with no changes proposed or required.
- **5. Vehicular Circulation.** The proposed parking lot meets requirements for drive aisle width. All parking spaces are aligned at 90° angles and traffic will flow easily around the lot. A knox box has been provided for Fire Department access through the proposed gates.
- **6. Landscaping and Screening**. The project requires parking area landscaping and a landscape buffer per Section 12.02.

Location	Requirements	Proposed	Comments	
Parking lot	Rear lot requires:	None	Existing lot is nonconforming	
	7 canopy trees			
	690 SF landscaped area			
Buffer Zone	20' wide	8' to 30' width (varies)	The new privacy fence, along with	
"B" (west	3' berm or 6' screen wall	7 existing trees	existing trees and vegetation, will	
adjacent to	21 canopy trees	8' vinyl privacy fence	provide for an improved buffer	
SR zone	21 evergreen trees		zone	
district)	81 shrubs			

7. Waste Receptacle and Enclosure. The existing dumpster and enclosure will be relocated east of the parking lot. The proposed dumpster will be located approximately 40' from the side property line, which exceeds the minimum requirement of 20'.

Genoa Township Planning Commission **Livingston County** Site Plan Review #2 Page 3

The revised plans include details of a wooden enclosure with a metal gate; however, Sheet C4 still includes a note that an enclosure is not proposed. The applicant must remove this note from the plans. Additionally, the size and shape of the enclosure and base pad are inconsistent between the site plan (Sheet C4) and the detail (Sheet C7). The applicant should correct this inconsistency.

The proposed location is also within an easement, although the revised submittal indicates that the applicant has received approval from the County Drain Commissioner's Office for this placement.

- **8. Exterior Lighting.** The photometric plan illustrates 4 light poles and under-canopy lighting for the carport. The light levels comply with the maximum foot-candles permitted and the pole heights have been reduced to comply with the Ordinance (20-foot maximum when adjacent to residential).
- **9. Impact Assessment.** The submittal includes an Impact Assessment (dated June 1, 2016). In summary, the Assessment notes that the proposed building addition is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a>.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP Planning Manager



July 6, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

**Re:** Livingston County Complex Carport

**Site Plan Review** 

Dear Ms. Van Marter:

We have received the updated site plan documents for the Livingston County Complex Carport improvements from Boss Engineering dated June 22, 2016. The applicant is proposing to extend the pavement and construct a carport adjacent to the existing parking spaces along the southern edge of the rear parking lot for the Livingston County Offices located on the south side of Grand River Avenue west of Chilson Road.

All outstanding items have been addressed in this submittal.

Please call if you have any questions.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

Copy: Brent LaVanway, Boss Engineering

oseph C. Siwek, P.E.

Tetra Tech



### **BRIGHTON AREA FIRE AUTHORITY**

615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 28, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Livingston County Complex Carport

2300 E. Grand River Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on June 27, 2016 and the drawings are dated June 22, 2016. The project is for the alteration of the facilities rear parking area for the addition of a carport and access gate. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

The details of the submittal have been previously discussed and appear to be in compliance with the fire code requirements. We have only one recommendation listed below.

 The knox box located at the entry of the gate is recommended to be replaced with a Knox key switch that will override the opener allowing fire department access. The knox box or key switch must be purchased through <a href="www.knoxbox.com">www.knoxbox.com</a> (Recommendation acknowledged)

IFC 506.1

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS

Fire Inspector

# IMPACT ASSESSMENT FOR SITE PLAN PETITION "LIVINGSTON COUNTY BUILDING DEPARTMENT" GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

LINDHOUT ASSOCIATES ARCHITECTS, AIA, PC 10465 CITATION DRIVE BRIGHTON, MI 48116 (810) 227-5668

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MI 48843 (517) 546-4836

**UNE 01, 2016** 

16-135 EIA

### INTRODUCTION

The purpose of this Impact Assessment dareport is to show the effect that this proposed development may have on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements for Impact Assessment* guidelines in accordance with Section 18.07 of the published oning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared For: Lindhout Associates Architects, AIA, PC 10465 Citation Drive Brighton, MI 48116 ■810□227-5668

Prepared By:
BOSS ENGINEERING COMPANY
Civil Engineers, Land Surveyors, Landscape Architects and Planners
3121 E. Grand River
Howell, MI 48843

517 546-4836

Boss Engineering has been successfully providing engineering, surveying, planning and landscape architecture services on land development prolects since 1969. Since its beginning, Boss Engineering has strived to provide unparalleled professional services with integrity and respect to every client. Today, Boss provides a complete lineup of consulting services for each prolect, ranging from conceptual design through final construction. The company currently employs a variety of professions including civil engineers, surveyors, landscape architects and sanitarians.

B. Map(s) and written description / analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also include information for areas within 10 feet of the property. An aerial photograph or drawing may be used to delineate these areas.

The site is located on the south side of East Grand Rive Avenue, approximately 750 feet southwest of East Grand River Ave and Chilson Road intersection within the general commercial district □GC□ To the north and east, the site is surrounded by general commercial development, including a PNC Ban□ and ALDI. The ad⊡acent properties to the east are residential developments along Chilson Road within the suburban residential district. To the south is undeveloped property within the public and recreational facilities district. To the west is the City of Howell.

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, soils, wildlife, woodlands, mature trees (eight-inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

The total site area is 27.97 acres. To the south is a low quality, non-regulated wetland dominated by reed canary grass. The wetland appears to be artificially created from previous development with a low point in otherwise non-hydraulic soils. The retention basin for the site is located approximately 345-feet southwest of the existing pavement. The existing pavement on site, within the area of disturbance, gradually slopes to the southwest at approximately 2.75 $\mbox{q}$ , draining into the vegetated area to the south, then following vegetated swales to the east or west, gradually maqing its way to the retention basin. With the increased runoff volume being negligible, the proposed conditions will follow the existing drainage patterns.

The trees and shrubs/brush on site are minimal. The primary vegetation is located along the east fence line consisting of pines and spruces that act as a buffer between the existing commercial and residential development with Bradford Pears surrounding the building. The vegetation to the south, within the non-developed area, consists primarily of scrub vegetation that includes boxelder, blac □ walnut, and reed canary grass. The USDA Soil Conservation Service classified the primary soils on site as Fox-Boyer complex, Brady loamy sand, and Carlisle muc □

D. Impact on storm water management: Description of measures to control soil erosion and sedimentation during grading and construction operations and until a permanent ground cover is established. Recommendations for such measures may be obtained from County Soil Conservation Service.

Surface runoff during periods of construction will be controlled by proper methods set forth by the Livingston County Drain Commissioner, including silt fence, inlet protection devices, and seed and mulch.

At the time of construction, there may be some temporary dust, noise, vibration and smo e, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimi the effects, such as watering if necessary for dust control.

The site plan documents show the proposed locations of all site improvements along with detailed soil erosion control information in compliance with Livingston County Drain Commission regulations.

E. Impact on surrounding land use: Description of the types of proposed uses and other man made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

The proposed development will have a minimal impact on surrounding properties. The increase of light, noise, and air pollution will be negligible.

F. Impact on public facilities and services: Description of number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection.

Letters from the appropriate agencies may be provided, as appropriate.

There will be no impact on public facilities due to the proposed development as well as on public schools, police protection, and fire protection

G. Impact on public utilities: Description of the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites service with sanitary sewer, calculations for pre- and post development flows shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

No impact will be made on public utilities due to the proposed development as service is not needed.

H. Storage or handling of any hazardous materials: Description of any hazardous substances expected to be used, stored or disposed of on the site. The information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

There will be no ha ardous materials used or disposed of on this site, such as gas cans, striping paint, etc.

I. Impact on traffic and pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation

### Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan.

There will be no impact on traffic or pedestrians. The additional spaces will be utili ed by county vehicles already utili ing the site.

J. A detailed traffic impact study shall be submitted for any site over ten (10) acres in size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets.

The proposed development will not generate 100 directional vehicle trips. Therefore a detailed traffic impact study is not necessary.

K. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None at this time.

L. A list of all sources shall be provided.

Genoa Township's Submittal Requirements for Impact Assessment

Genoa Township □oning Ordinances

Soil Survey of Livingston County, Michigan, U.S.D.A. Soil Conservation Service

National Wetland Inventory Plan, United States Department of the Interior, Fish and Wildlife Service

# SITE PLAN / CONSTRUCTION PLANS FOR

# LIVINGSTON COUNTY BUILDING DEPARTMENT REAR PARKING LOT IMPROVEMENTS

2300 E. GRAND RIVER, HOWELL, MI 48843 GENOA TOWNSHIP, LIVINGSTON COUNTY, MI

LOCATION MAP

# NO SCALE

# PROPERTY DESCRIPTION:

GENERAL INFORMATION: PARCEL NO.: 4711-06-100-039 EFFECTIVE DATE: 5/18/2004 ZONING: GENERAL COMMERCIAL DISTRICT (GC)

PROPERTY DESCRIPTION PER LIVINGSTON COUNTY TAX RECORDS

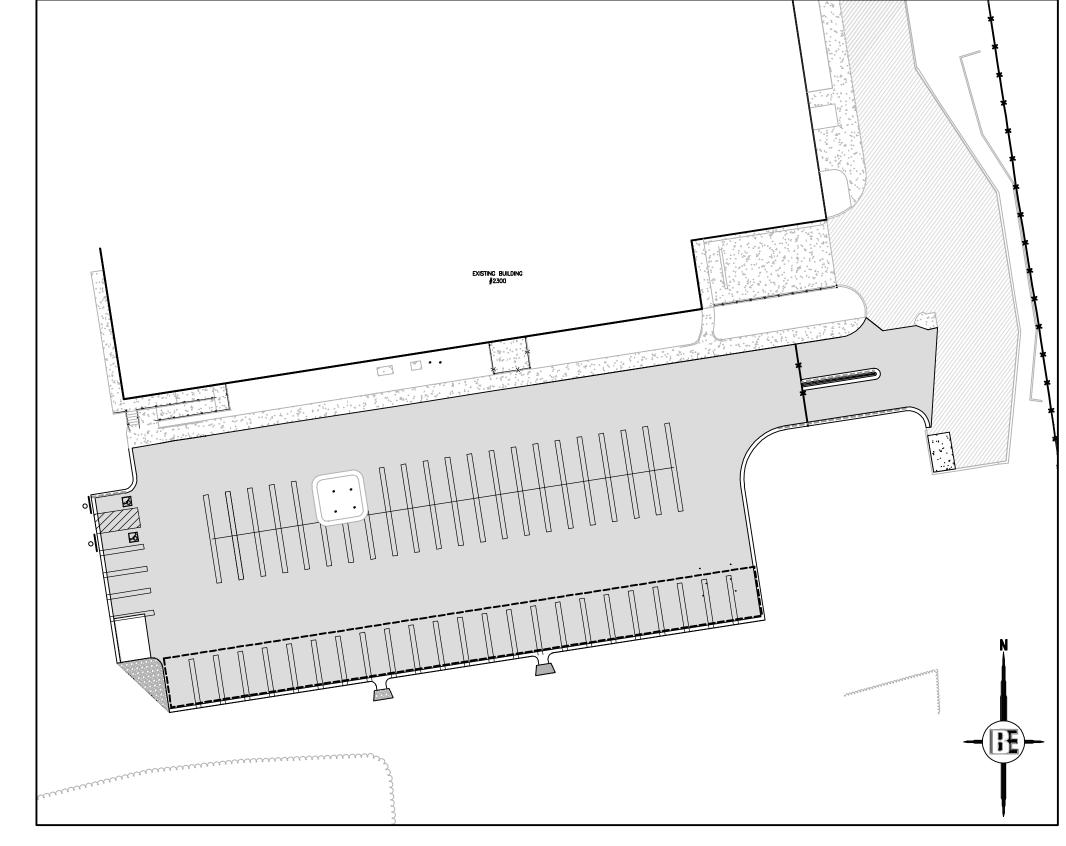
S1°E 785.26 FT, TH S14°W 82 FT, TH S20°W 122 FT, TH S27°W 84 FT, TH S31°W 6 FT, TH S35°W 255 FT, TH, S8°W 22 FT, TH S2°W 141.72 FT, TH N88°W 230.73 FT, TH NW'LY ALG E RR ROW 2409.97 FT, TH N69°E 345.92 FT, TH S60°E 85.93 FT, TH S3°E 14.51 FT, TH N84°E 219.05 FT, TH N28°E 135.65 FT TO POB 28.04 AC M/L SPLIT 11/90 FROM 026 & 030

### CONSTRUCTION NOTES

OMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

- 1. THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY

- 8. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS.
- 9. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING
- 10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF CONSTRUCTION.
- 11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.
- 12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.
- 13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
- 15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT CLASS II).
- 17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.
- 19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE
- DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS. 20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE
- 21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.
- 22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.
- 24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS SPECIFIED OR DIRECTED
- 25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION I S REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.
- 26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN
- 27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE
- 28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.
- 29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR TO
- 30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.
- 31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.
- 33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.



OVERALL SITE MAP NO SCALE

SHEET INDEX					
SHEET NO.	DESCRIPTION				
C1 C2 C3 C4 C5 C6 C7	COVER SHEET OVERALL DIMENSIONED SITE PLAN EXISTING CONDITIONS & DEMOLITION PLAN SITE PLAN GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN LIGHTING PHOTOMETRIC PLAN CONSTRUCTION DETAILS				
	DRAWINGS PREPARED BY ARCHITECT				
A.1	(CANOPY) PLAN AND DETAILS				

# LIVINGSTON COUNTY BUILDING DEPARTMENT

## OWNER:

LIVINGSTON COUNTY BUILDING DEPARTMENT 2300 E. GRAND RIVER HOWELL, MI 48843

# PREPARED FOR:

LINDHOUT ASSOCIATES ARCHITECTS, AIA, PC 10465 CITATION DRIVE BRIGHTON, MI 48116 CONTACT: MICHAEL KENNEDY PHONE: (810) 227-5668

### PREPARED BY:

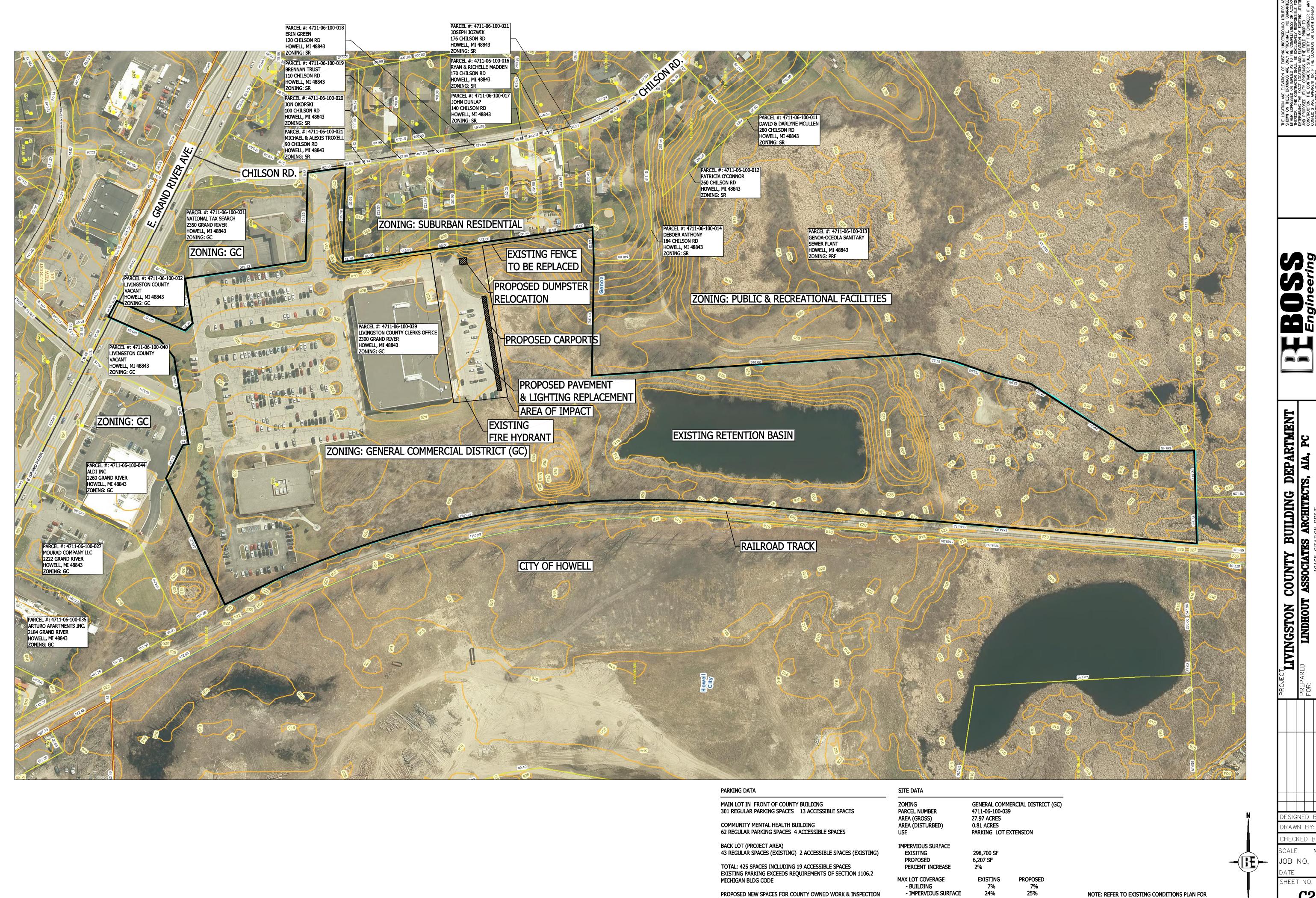


3121 E. GRAND RIVER AVE HOWELL, MI. 48843 800.246.6735 FAX 517.548.1670

# INDEMNIFICATION STATEMENT

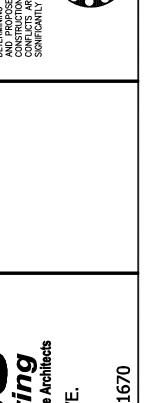
THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS. PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

					<b>O</b> 1 4
					(11
	KS	BL	GENOA TOWNSHIP REVIEW	06/22/16	
	PC	BL	FOR BIDDING	6/13/16	ISSUE DATE: 06/01/2016
0	BY	CK	REVISION	DATE	JOB NO. 16-135



VEHICLES - NOT FOR ADDT. EMPLOYEE OR VISITOR PARKING

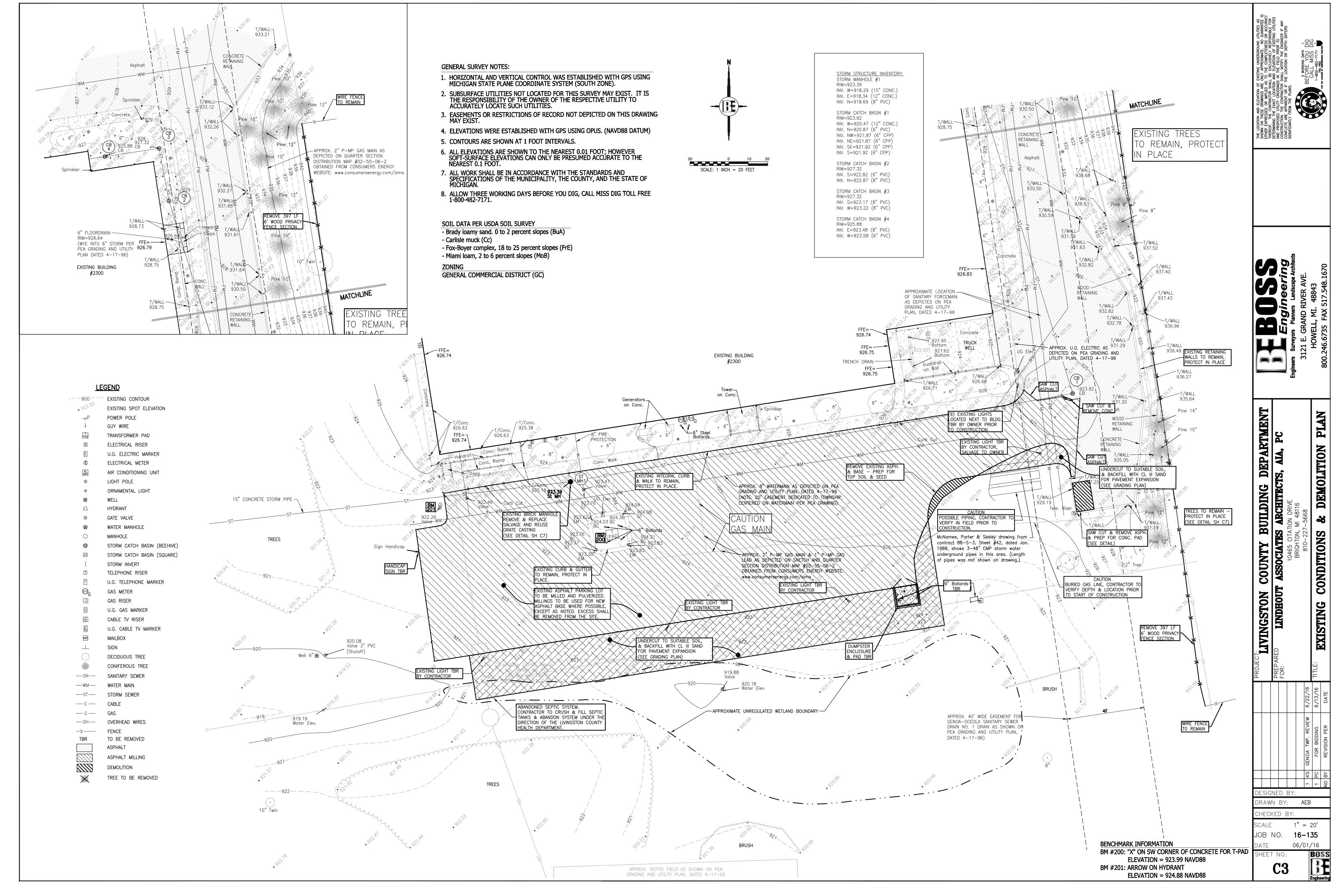


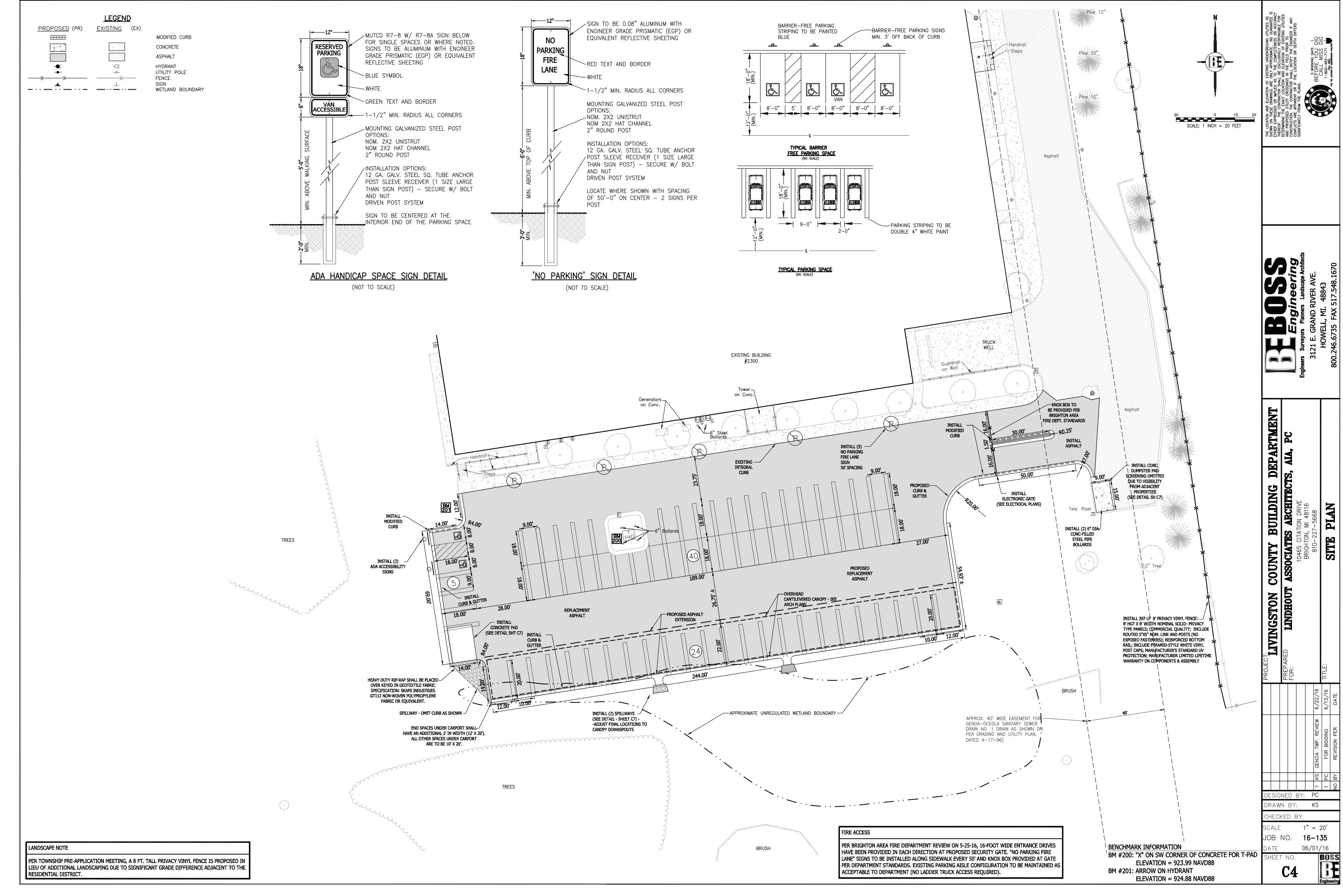


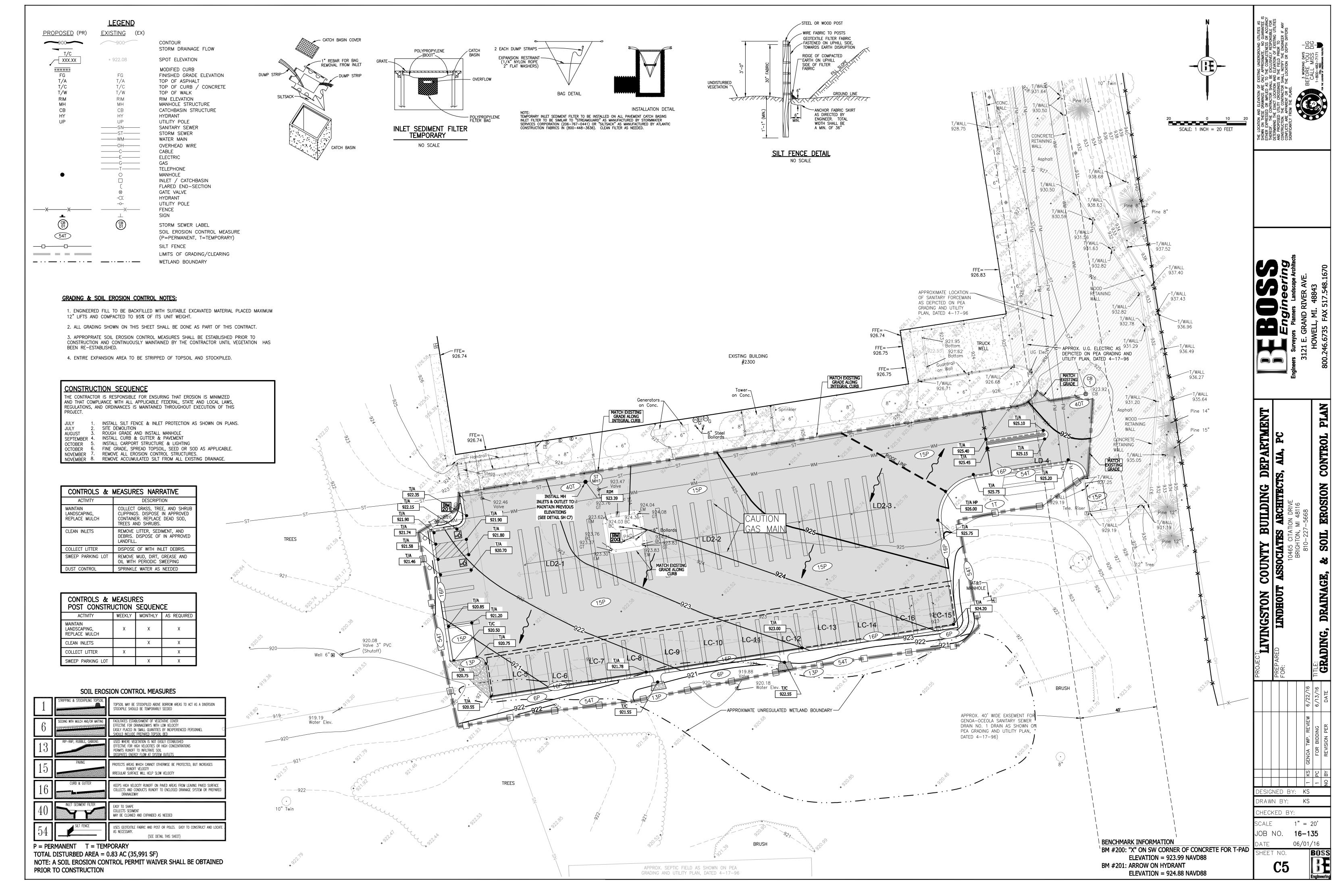
RAWN BY: KS

HECKED BY: NOT TO SCALE 16-135

UTILITY, EASEMENT, AND SOILS INFORMATION



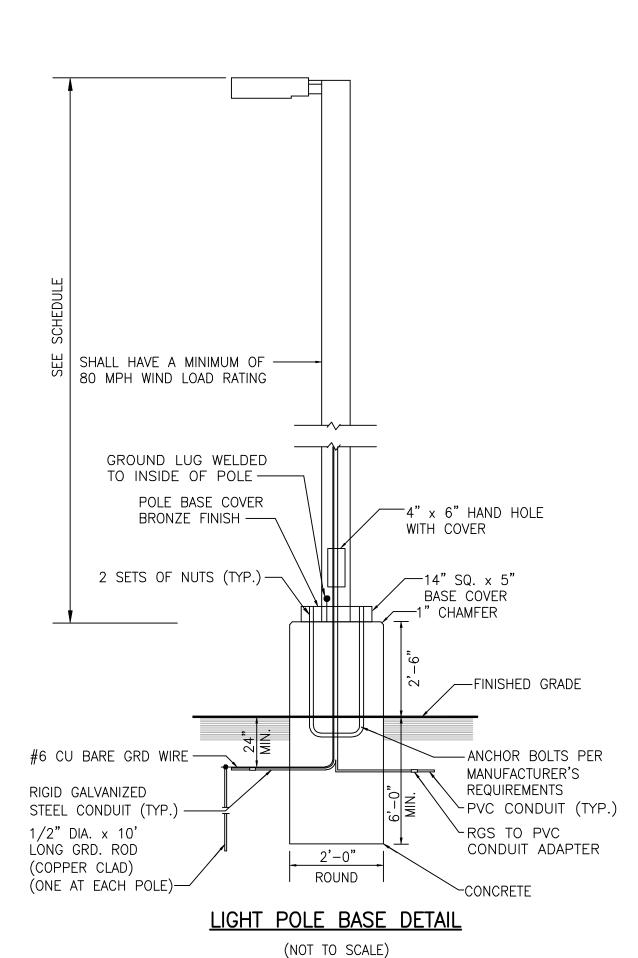




LUMIN	LUMINAIRE SCHEDULE								
Symbol	Label	Qty	Catalog Number	Description	Lamp	File Lumens LLF Watts			
1	LC	12	LITHONIA #XWMLED	4' WET LOCATION STRIPLIGHT, CLEAR PRISMATIC POLYCARBONATE LENS, 4000K	LED	XWMLED.ies Absolute 0.95 23.7			
	LD	1	LITHONIA #DSX0 LED 40C 700 50K T5M MVOLT	DSX0 LED with 40 LEDs @530 mA, 5000K, Type 5 Medium Optics	LED	DSX0_LED_40 C_530_50K_T5 Absolute 0.90 91 M_MVOLT.ies			
<u>.</u>	LD2	3	LITHONIA #DSX0 LED 40C 700 50K T5M MVOLT	DSX0 LED with 40 LEDs @530 mA, 5000K, Type 5 Medium Optics	LED	DSX0_LED_40 Absolute 0.90 182 C_530_50K_T5 M_MVOLT.ies			

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CARPORT AT GRADE	Ж	3.5 fc	5.7 fc	1.7 fc	3.4:1	2.1:1
PARKING & DRIVE AT 5'AFG	Ж	2.4 fc	3.6 fc	0.3 fc	12.0:1	8.0:1
PARKING & DRIVE AT GRADE	Ж	2.1 fc	3.1 fc	0.7 fc	4.4:1	3.0:1
SITE 5' AFG	+	1.3 fc	15.5 fc	0.0 fc	N/A	N/A
SITE AT GRADE	+	1.0 fc	5.7 fc	0.0 fc	N/A	N/A

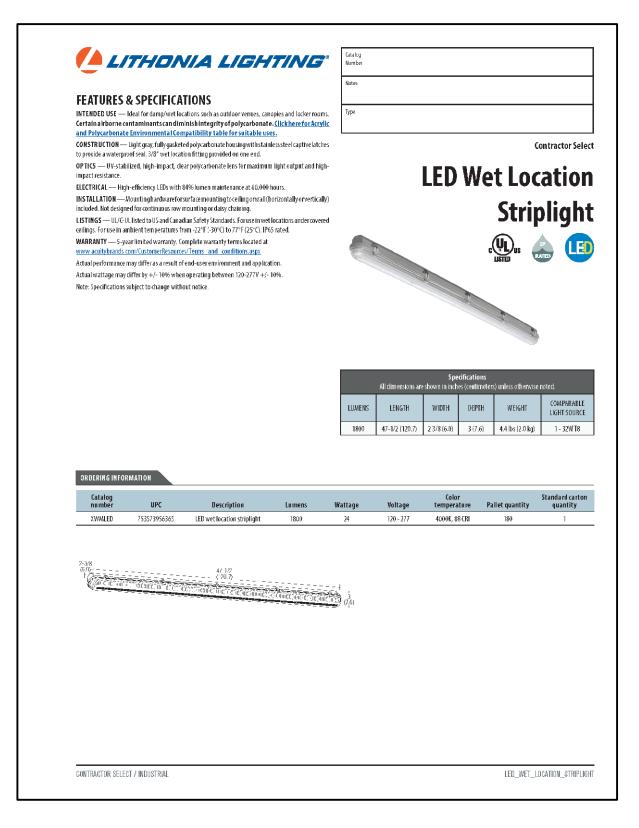
No.	Label		ation			
1		X	Υ	MH	Orientation	Tilt
•	LD2	53.1	81.7	20.0	-8.5	0.0
2	LD2	133.3	94.2	20.0	-8.5	0.0
3	LD2	222.2	108.1	20.0	-8.5	0.0
4	LD	317.7	127.6	20.0	-8.5	0.0
5	LC	37.2	23.7	10.0	-8.5	0.0
6	LC	57.0	26.7	10.0	-8.5	0.0
7	LC	76.7	30.2	10.0	-8.5	0.0
8	LC	96.5	33.0	10.0	-8.5	0.0
9	LC	116.1	36.1	10.0	-8.5	0.0
10	LC	136.0	39.3	10.0	-8.5	0.0
11	LC	155.6	42.4	10.0	-8.5	0.0
12	LC	175.4	45.5	10.0	-8.5	0.0
13	LC	195.1	48.8	10.0	-8.5	0.0
14	LC	214.8	51.9	10.0	-8.5	0.0
15	LC	254.3	58.3	10.0	-8.5	0.0

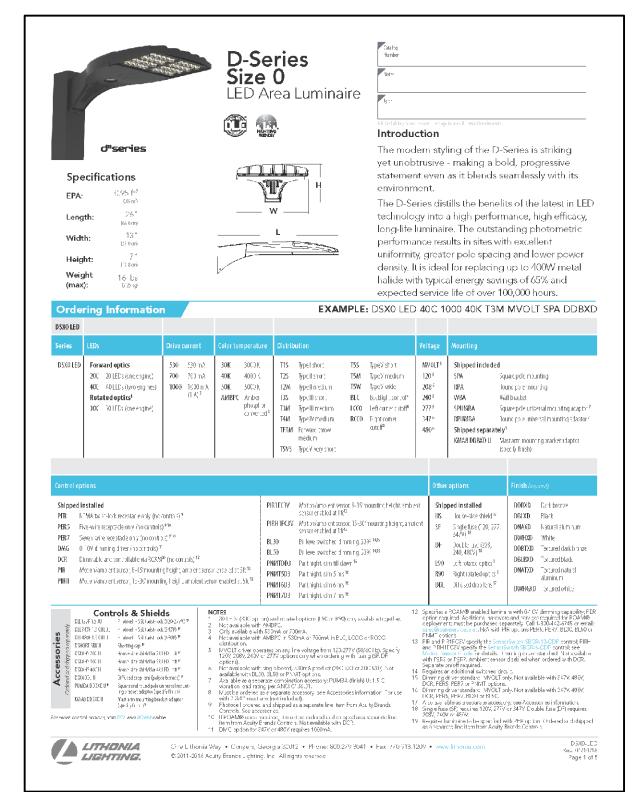


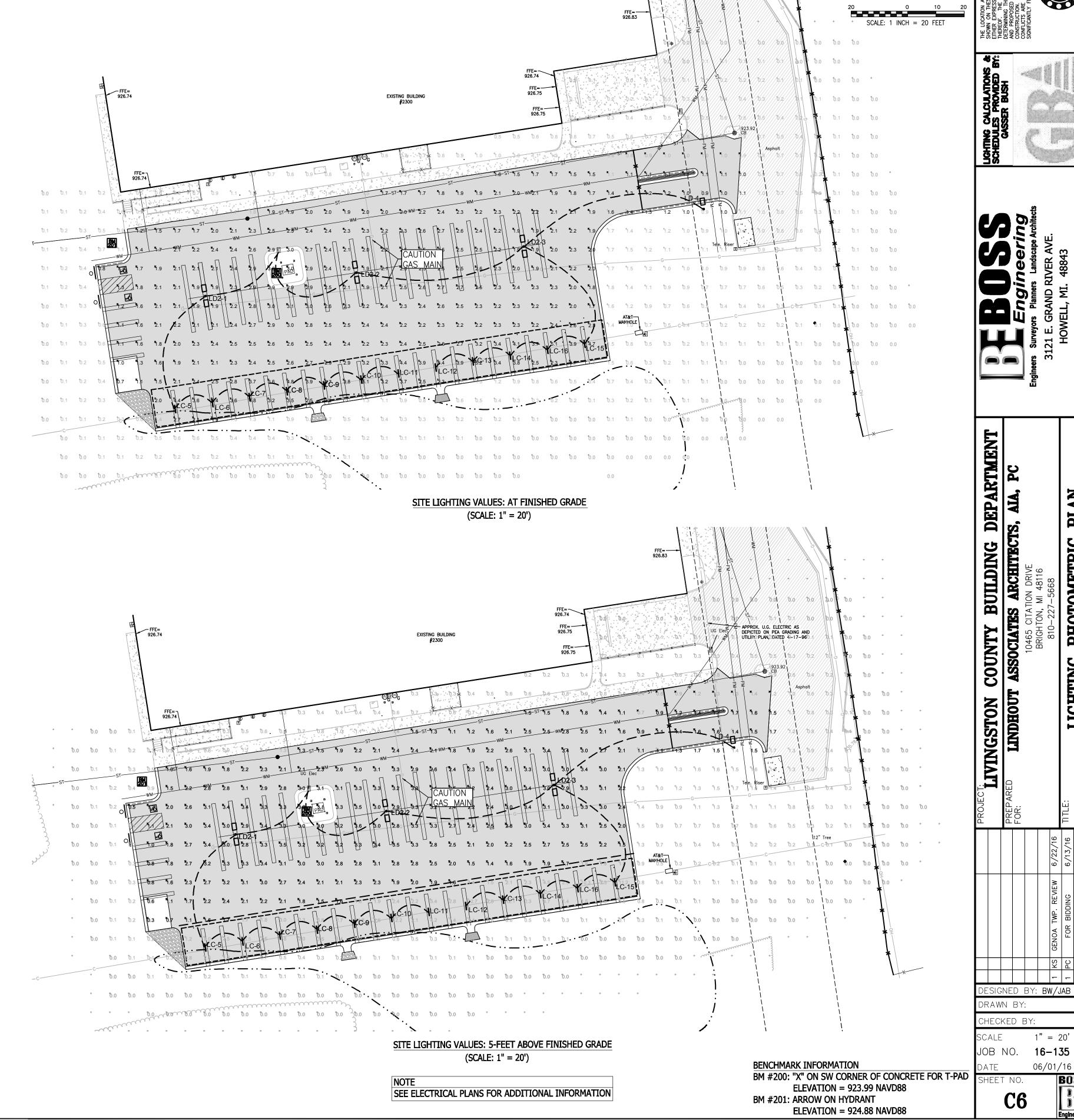
### NOTES 1. SEE MH COLUMN OF LUMINAIRE LOCATIONS FOR MOUNTING HEIGHTS. 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTORS. 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT GRADE & 5' AFG. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS

CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.







**PHOTOMETRIC** 

1" = 20'

16-135

06/01/16

#### LIVINGSTON COUNTY SOIL EROSION PERMIT TEMPLATE TEMPORARY CONTROLS AND SEQUENCE

NOTIFY LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE 24 HOURS PRIOR TO START OF GRADE WORK.

IN ACCORDANCE WITH PUBLIC ACT NO. 53, OF 1974 THE PERMIT HOLDER SHALL CALL MISS DIG FOR STAKING AND LOCATING OF UTILITIES, AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY WORK.

#### PERMITTING STANDARDS

(IMPORTANT NOTICE) RETENTION/DETENTION PONDS SHALL BE EXCAVATED, TOPSOILED, SEEDED, MULCHED AND TACKED PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. INGRESS/EGRESS MUST HAVE LARGE CRUSHED ROCK TO REDUCE THE TRACKING OF SOIL ONTO THE PUBLIC TRAFFIC AREAS. SEE DETAIL ITEMS BELOW.

36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS SHALL BE PLACED AND MAINTAINED ALONG PERIMETER ON ALL LOW LYING AREAS OF THE CONSTRUCTION SITE TO FILTER RUNOFF BEFORE LEAVING PROJECT SITE.

ALL TEMPORARY EROSION CONTROL DEVICES AS NOTED ON PLANS SHALL BE INSTALLED PRIOR TO THE START OF MASSIVE EARTH DISTRIBUTION.

PLAN DOES DENOTE A DETAILED EROSION CONTROL DEVICE TO RESTRICT TRACKING OF MATERIAL ONTO THE HIGHWAY. STONE DIAPERS SHALL BE INSTALLED AT ALL INGRESS/EGRESS AREAS OF THE SITE PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. DIAPERS SHALL BE OF CRUSHED STONE AND SHALL HAVE A MINIMUM LENGTH OF 100' LINEAL FEET.

#### SLOPES

SLOPES IN EXCESS OF 3 HORIZONTAL TO 1 VERTICAL SHALL NOT BE USED EXCEPT WITH A MECHANICAL DEVICE SUCH AS A RETAINING WALL. TERRACING, OR OTHER PRIOR APPROVED DEVICE.

#### STORM DRAINS

8. ALL STORM WATER STRUCTURES, CATCH BASINS AND/OR MANHOLES, IF BLOCK, SHALL BE PLASTERED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURES. GROUTING AND POINTING WILL BE NECESSARY AT THE CASTING AND STRUCTURE JOINT TO PREVENT LEAKAGE AND THE RESULTING SOIL MOVEMENT, AROUND THE STRUCTURE

STORM WATER INLETS SHALL HAVE AS A TEMPORARY CONTROL A STRAW BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING CONSTRUCTION. AS AN ALTERNATIVE TO THE STRAW BALE BARRIER, A BURLAP AND PEA STONE FILTER MAY BE USED. THREE LAYERS OF BURLAP FIBER AND A FILTER OF PEA STONE MINIMUM 1 FT. IN DEPTH CAN BE USED. DUE TO THE POROSITY OF THE BURLAP FILTER THE MINIMUM OF 1 FT. OF STONE IS VERY IMPORTANT. THE CONTROL SHALL BE INSTALLED AS SOON AS THE STRUCTURE IS BUILT AND INSPECTED DAILY. 10. BURLAP AND PEA STONE FILTERS WILL NEED TO BE CHANGED AFTER EACH RAINFALL.

11. IT WILL BE NECESSARY FOR THE DEVELOPER TO HAVE THE STORM DRAINAGE LINES CLEANED PRIOR TO FINAL INSPECTION BY THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE. IF REQUIRED THIS WORK SHALL BE DONE BY A PROFESSIONAL SEWER CLEANING FIRM AND CERTIFIED IN WRITING BY THE PROJECT ENGINEER. ALL SUMPS AND TEMPORARY SILT TRAPS SHALL ALSO BE CLEANED AT THIS TIME.

#### STABILIZATION

ALL UNIMPROVED DISTURBED AREAS SHALL BE RE-TOP SOILED, WITH A MINIMUM OF 3" OF MATERIAL, SEEDED, MULCHED AND TACKED WITHIN 15 DAYS OF THE COMPLETION OF THE MASSIVE EARTH DISRUPTION. IN THE NON-GROWING SEASON STRAW MATTING WILL SUFFICE. HYDROSEEDING WILL BE AN ACCEPTABLE ALTERNATE FOR MULCHING. EXTREME CARE SHOULD BE EXERCISED IN SPRING AND FALL PERIODS AS A FROST WILL BREAK THE BIND OF THE HYDROSEEDING, WHICH WILL AFFECT THE EFFECTIVENESS OF THIS PROCEDURE.

IN THE NON-GROWING SEASON, TEMPORARY STABILIZATION OF MASSIVELY EXPOSED AREAS FOR WINTER STABILIZATION SHALL BE DONE WITH STRAW MATTING.

14. PERMIT FEES DURING THE WINTER PERIOD OF NON-CONSTRUCTION, (DECEMBER 1 THROUGH MARCH 31), SHALL NOT BE IMPOSED IF THE PERMIT HOLDER TEMPORARILY STABILIZES THE EXPOSED AREAS WITH STRAW MATTING, AND OTHER APPROVED CONTROLS, AND OBTAINS A WINTER STABILIZATION CERTIFICATE FROM THIS OFFICE

PERIODIC INSPECTIONS WILL BE MADE THROUGHOUT THE COURSE OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE MANAGERS OF THE PROJECT TO CONTACT THIS OFFICE FOR THE FINAL INSPECTION AT THE END OF THE PROJECT.

THIS COMMERCIAL PERMIT IS VALID FOR THE MASS FARTH MOVEMENT THE INSTALLATION OF ROADS, DRAINS, AND UTILITIES AND IS NOT FOR ANY SINGLE FAMILY RESIDENCE. ALL RESIDENTIAL BUILDERS WILL NEED TO SECURE WAIVERS AND OR PERMITS AS NECESSARY FOR EACH LOT IN THIS DEVELOPMENT AT THE TIME APPLICATION FOR SINGLE FAMILY

RESIDENCE IS MADE. 17. THE ISSUING BUILDING DEPARTMENT SHALL NOT ISSUE THE CERTIFICATE OF OCCUPANCY UNTIL THE FINAL INSPECTION LETTER FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE HAS BEEN

OBTAINED. 18. PER THE LIVINGSTON COUNTY DRAIN COMMISSIONER THE SEEDING, FERTILIZER AND MULCH MINIMUM QUANTITIES SHALL BE AS FOLLOWS:

TOP-SOIL 3" IN DEPTH GRASS SEED 210 LBS. PER ACRE

FERTILIZER 150 LBS. PER ACRE STRAW MULCH

3" IN DEPTH 1.5 TO 2 TONS PER ACRE (ALL MULCHING MUST HAVE A TIE DOWN, SUCH AS TACKIFIER, NET BINDING, ETC.)

HYDRO-SEEDING HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES EXCEEDING 1%, IN SUCH CASES STABILIZATION SHALL BE DONE WITH SEED AND STRAW MULCH WITH A TACKIFIER.

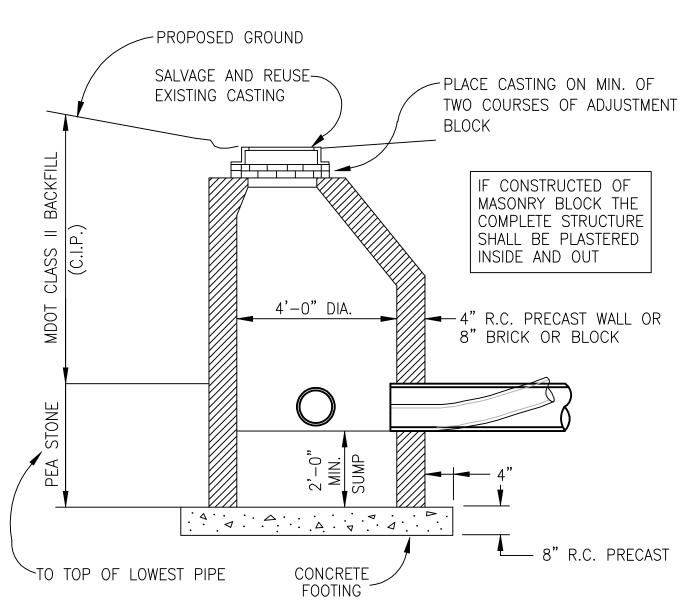
## MAINTENANCE SCHEDULE FOR SOIL EROSION CONTROLS

SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH MAJOR STORM EVENT. MAINTENANCE SHALL INCLUDE REMOVAL OF ACCUMULATED SILT AND REPLACEMENT OF TORN SECTIONS. SILT FENCE SHALL BE REMOVED WHEN ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED.

TRACKING PAD SHALL BE INSPECTED MONTHLY FOR ACCUMULATED DIRT. TRACKING PAD SHALL BE REPLACED WHEN THE STONES ARE CHOKED WITH DIRT. TRACKING PAD SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FIRST COURSE OF ASPHALT BEING LAID.

CATCH BASINS SHALL BE INSPECTED ANNUALLY FOR ACCUMULATION OF SEDIMENT. ALL SEDIMENT MUST BE REMOVED AND DISPOSED OF PROPERLY WHEN THE SUMP IS FULL

COMMON AREAS SHALL BE STABILIZED NO LATER THAN 15 DAYS AFTER GRADE WORK, PURSUANT TO RULE 1709 (5).



EXISTING 5-1/2"

5 1/2"

#4 BARS

#4 DAINS

MODIFIED CONC. CURB & GUTTER

(NO SCALE)

1"/FT. SLOPE

EPOXY COATED

F3 2'-0" 1 3/8" AS SHOWN

F5 | 2'-6" | 1 7/8" | AS SHOWN

F6 2'-6" 1 7/8" OMITTED

- CONC. CURB & GUTTER

RIPRAP

(TAPER)

(NO SCALE)

2'-0" | 1 3/8" | OMITTED

**CONCRETE CURB & GUTTER** 

TYPE F

(NO SCALE)

#4 BARS CONTENTS OF THE PROPERTY OF THE PROPER

LAS SHOWN

OMITTED

PAVFMFN1

PAVEMENT

-BAR MAY BE LOCATED

ABOVE OR BELOW

21AA CRUSHED

---EXTEND SAND BASE

LIMESTONE

UNDER CURB

·.]--- LANE TIE.

CU.YD/LIN.F

0.0484

0.0610

0.0610

0.0737

SEALED CONTRACTION JOINT -

ADJ. TO CONCRETE PAVEMENT

#4 BARS CONTINUOUS

(SEE CURB DETAIL)

رم, CONC. CURB & GUTTER 🗸

- BOULDER DIVERTER MIN. 18" HEIGHT

PLACED OVER KEYED

IN GEOTEXTILE FABRIC.

GEOTEXTILE FABRIC

SPECIFICATION:

8" CONCRETE - 3500 PSI

8" 21AA GRAVEL

2.0" MDOT 36A

2.0" MDOT 13A

ASPHALT PAVEMENT CROSS SECTION - PROPOSED EXPANSION

(NO SCALE)

7" ASPHALT MILLINGS

6" MDOT CLASS II SAND SUBBASE

COMPACTED SUBBASE

CONCRETE SPILLWAY FABRIC OR EQUIVALENT.

**CONCRETE PAVEMENT CROSS SECTION** 

(NOT TO SCALE)

NOTE: ALL RIP=RAP MUST BE

SKAPS INDUSTRIES GT112

NON-WOVEN POLYPROPYLENE

\*\* EXPANSION JOINT

('B'-TYPE PLAIN JOINT) IF

0.0484

≻BAR MAY BE LOCATED

ABOVE OR BELOW

∠21AA CRUSHED

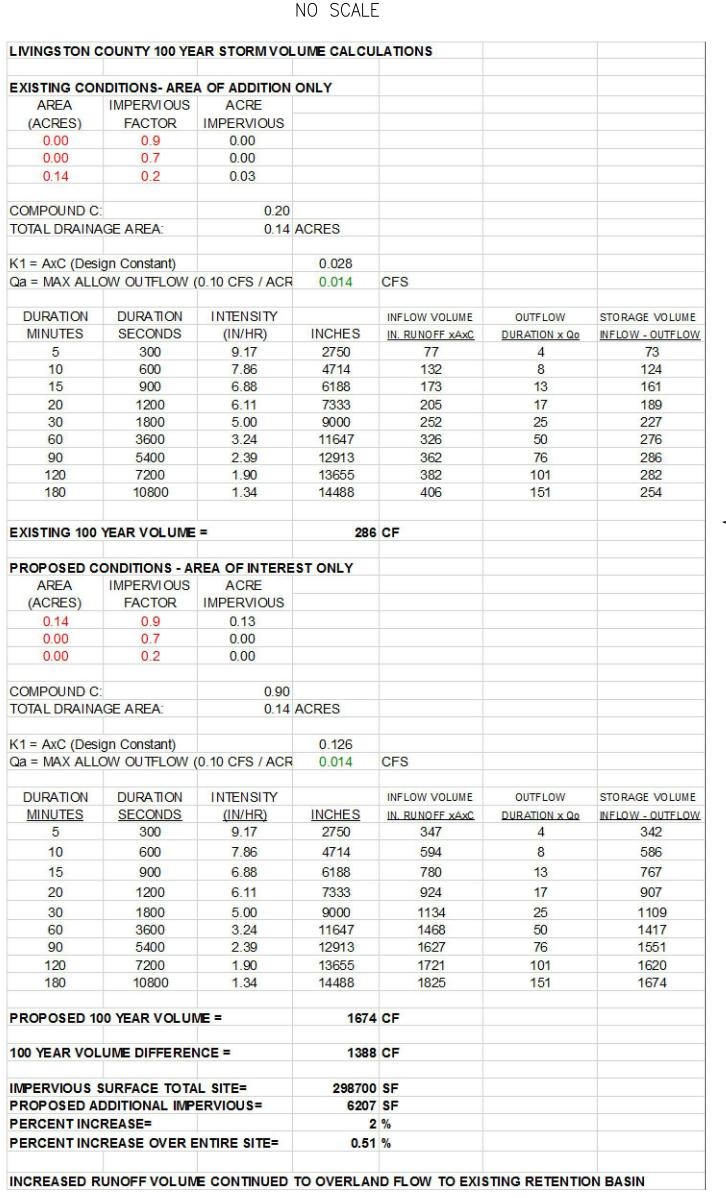
LIMESTONE

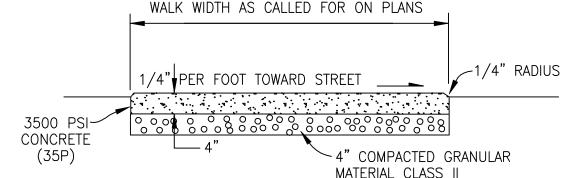
UNDER CURB

EXTEND SAND BASE

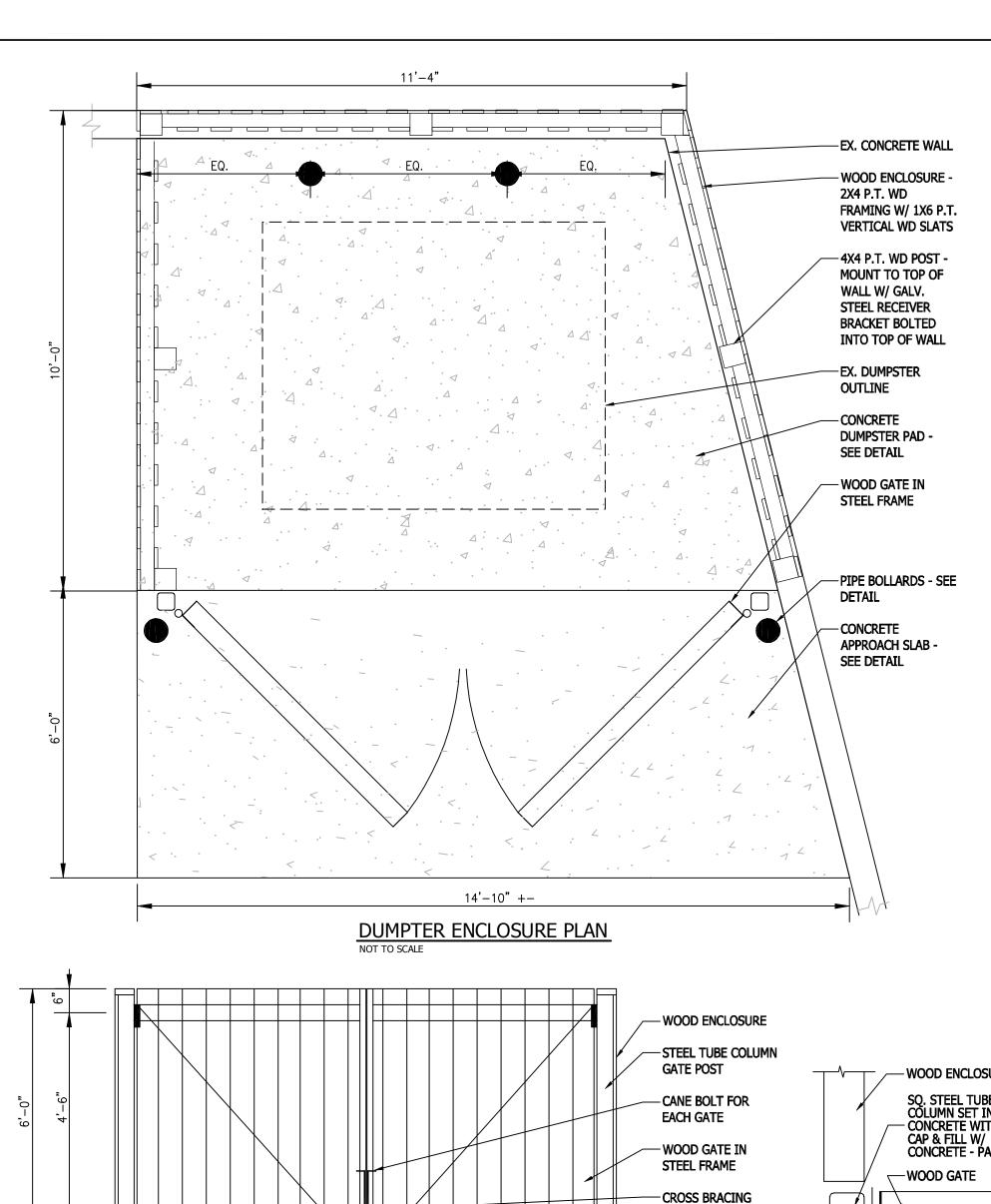
LANE TIE.

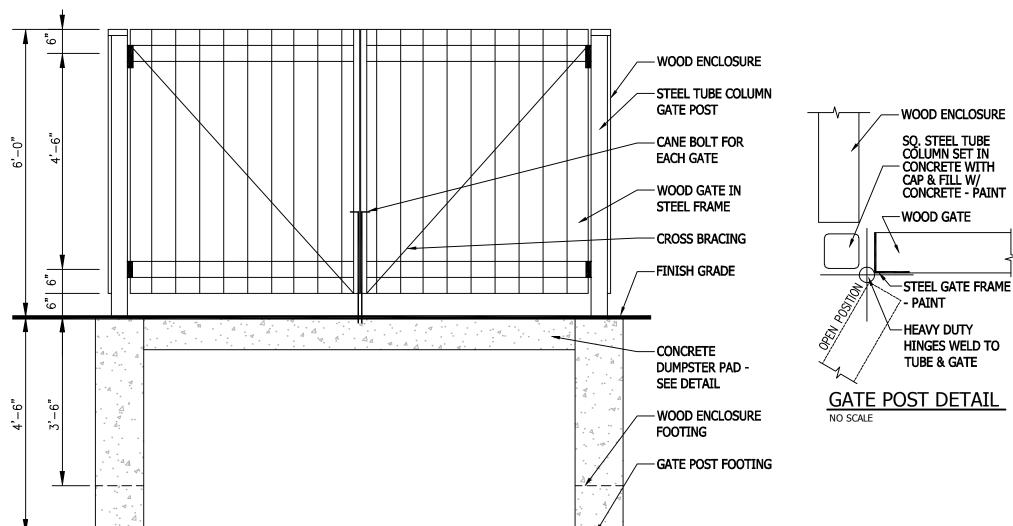
## 4 FT. DIA. STORM MANHOLE W/SUMP

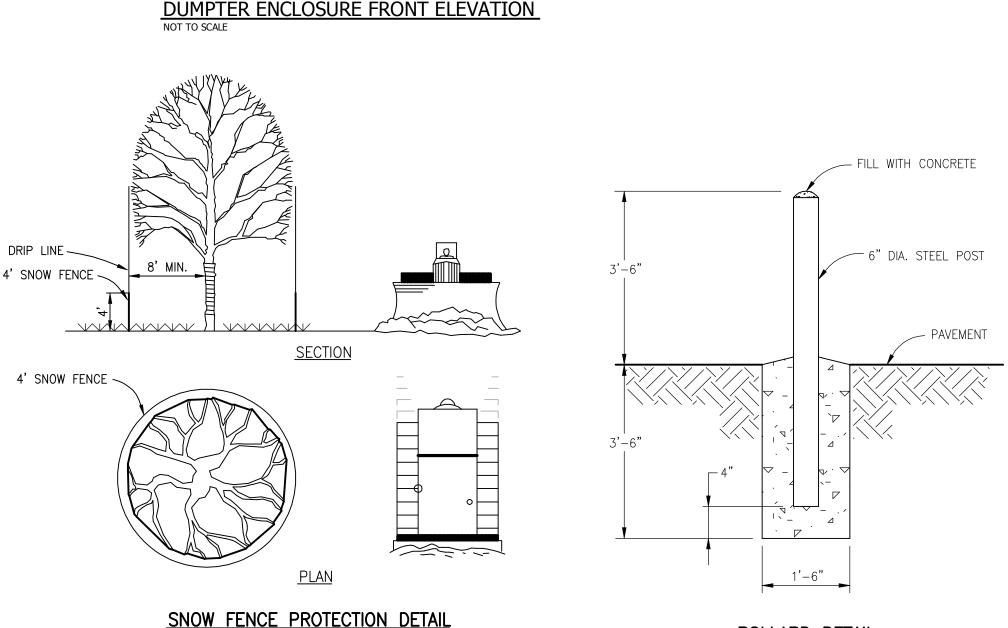




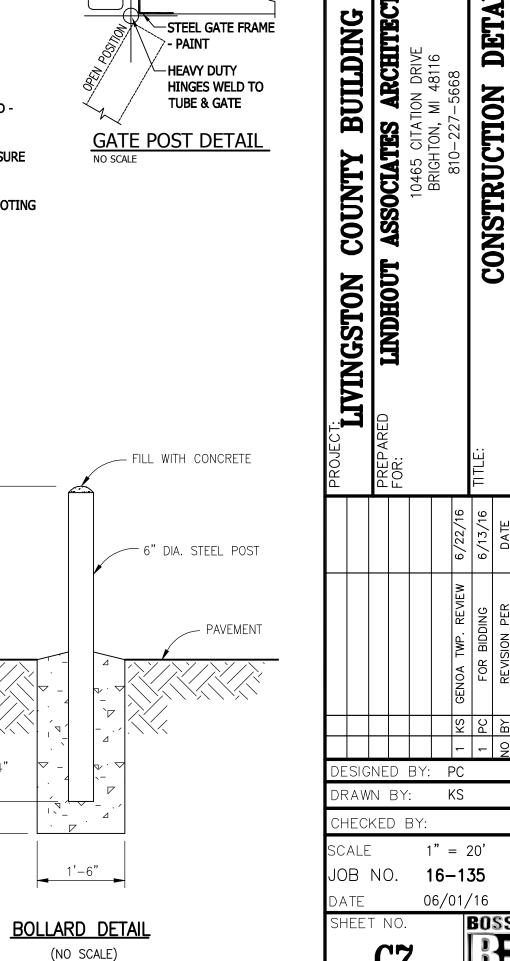
4" CONCRETE SIDEWALK (NO SCALE)





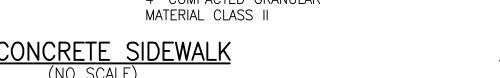


(NO SCALE)



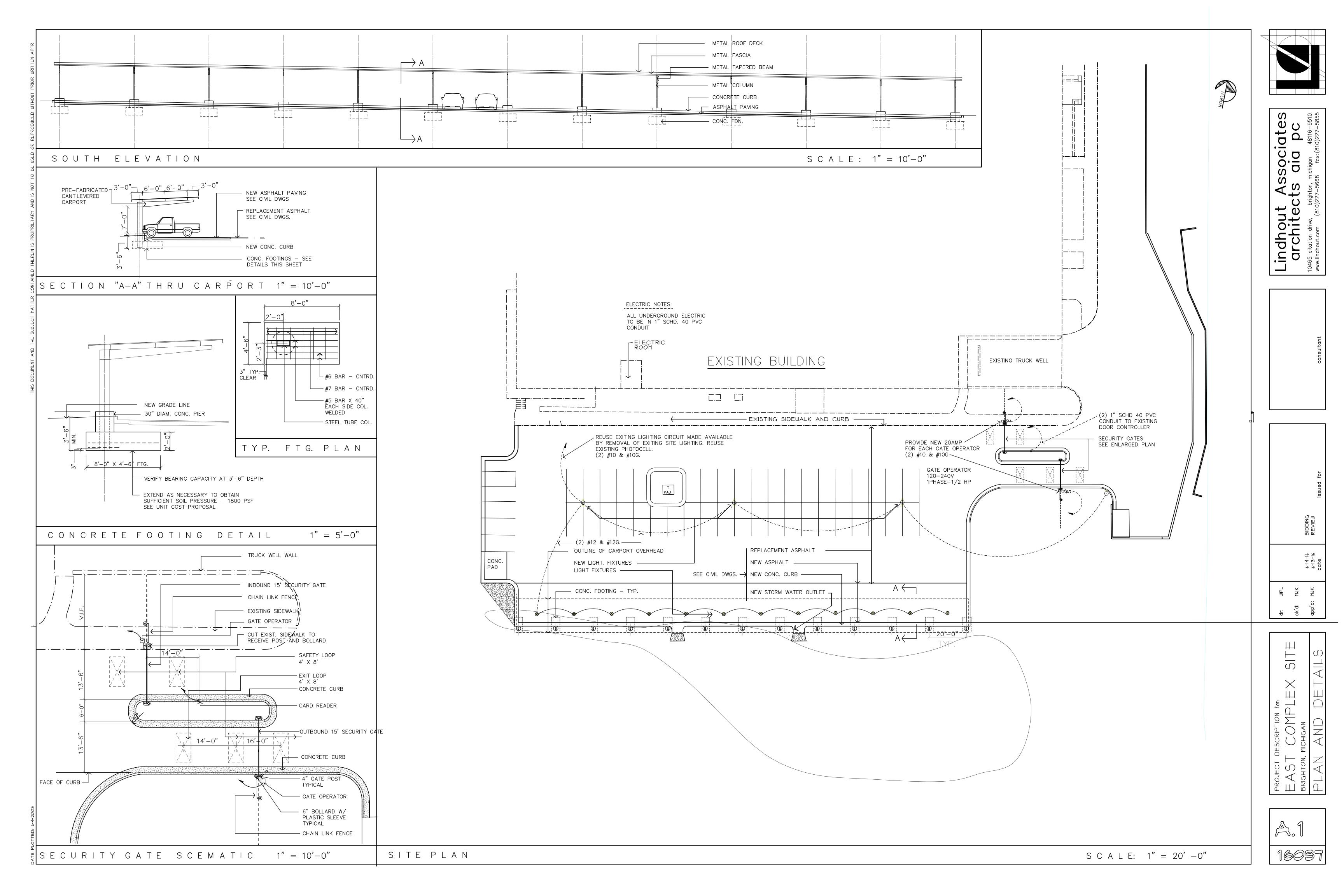
SHOWN
SHOWN
THEREO
DETERM
AND PR
CONSTR
SIGNIFIC

S



2.0" MDOT 36A 2.0" MDOT 13A

EXISTING BASE



MAY 3 1 2016



## GENOA CHARTER TOWNSHIP Application for Site Plan Review

RECEIVED

TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:
APPLICANT NAME & ADDRESS: SRM ASSOCIATES LLC/Bob Maxey For If applicant is not the owner, a letter of Authorization from Property Owner is needed.
OWNER'S NAME & ADDRESS: SRM +5500 rates Lec/ Wike makey-man
SITE ADDRESS: 279 8 E Grand R. ver PARCEL #(s):
APPLICANT PHONE: (517)545-5700 OWNER PHONE: ()
OWNER EMAIL: mmaxey@bobmaxey.com
LOCATION AND BRIEF DESCRIPTION OF SITE: Ford Autodealership
ON EGRAND RIVER
BRIEF STATEMENT OF PROPOSED USE: Auto dealership is looking to expand parking lot on varant land that is adjacent to existing parking lot to make
the display of New car inventory better
THE FOLLOWING BUILDINGS ARE PROPOSED: None
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.
BY: Mulus Magay
ADDRESS: 2798 E. Grand Piver Howell MI 48843

FEE EXCEEDANCE AGREEMENT

As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.

SIGNATURE

Methods

Met



June 30, 2016

Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP				
	Assistant Township Manager and Planning Director				
Subject:	Maxey Ford Parking Lot Addition – Site Plan Review #2				
<b>Location:</b>	2798 E. Grand River Ave. – South side of Grand River Avenue, west of Tahoe				
	Boulevard				
<b>Zoning:</b>	GCD General Commercial District				

#### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 6/22/16) for an expanded new vehicle parking area for the Maxey Ford dealership located at 2798 E. Grand River Avenue. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Zoning Ordinance.

#### A. Summary

- 1. The applicant should be aware that they are approaching the maximum impervious surface coverage allowed for the site.
- 2. We encourage the applicant to provide additional plantings and bring the site closer to compliance with the requirements of Section 12.02.
- 3. Additional details are needed to confirm compliance with the Buffer Zone A requirements south of the project area.
- 4. We suggest the applicant provide a 6-foot tall screen wall north and west of the project area as the required buffer/screen.
- 5. Township Board approval is required for the gravel storage lot.
- 6. There is a discrepancy between the site plan and Impact Assessment with respect to the number of vehicle spaces in the proposed storage lot.

#### B. Proposal/Process

The applicant requests site plan review and approval for new vehicle parking area. The applicant indicates that use of the 141 spaces will be as "a holding area prior to vehicles being sold."

Automobile dealerships are special land uses in the GCD; however, the proposal is a minor amendment to an existing special use per Section 19.06. Therefore, the request requires only site plan review and approval at this time.

#### C. Site Plan Review

**1. Dimensional Requirements.** Given the scope of the proposed project, the only dimensional standards impacted are side parking setbacks and impervious surface coverage, all of which are met.

For the applicant's future consideration, it is worth noting that the resulting impervious surface ratio of 74% is approaching the 75% maximum for this site.



Aerial view of site and surroundings (looking north)

- **2. Vehicular Circulation.** No changes are proposed to the existing ingress/egress for the dealership, which consists of 3 driveways (1 of which is shared with the adjacent parcel to the west).
- **3.** Landscaping. The submittal does not propose any new landscaping as part of the project.

Based on the information provided, the development is currently deficient in terms of landscaping for greenbelts, parking lot landscaping, buffer zones and the retention pond. We encourage the applicant to provide additional plantings and bring the site closer to compliance with the requirements of Section 12.02.

**4. Use Requirements.** Automobile dealerships are subject to the requirements of Section 7.02.02(c). Given the relatively limited scope of the project, these requirements are generally either met or not impacted by the project. However, there are screening requirements for outdoor storage areas and Township approval is required for gravel storage lots.

More specifically, a Buffer Zone A is required to the south (adjacent to residential), while a Buffer Zone B is required north and west of the project area.

The area to the south contains existing vegetation, including 10 trees shown on the plan; however, there is not enough detail to determine full compliance (additional plantings, berming, screen wall, etc.).

There is no screening (existing or proposed) north or west of the project area. The Ordinance allows the Planning Commission to permit a 6-foot tall screen wall or 4-foot landscaped berm in lieu of the full Buffer Zone B requirements. Given the limited space available, we suggest the applicant utilize the screen wall option to the north and west.

Lastly, the Township Board may approve a gravel storage lot based on a recommendation from the Planning Commission and Township Engineer "upon a finding that neighboring properties and the environment will not be negatively impacted."

Genoa Township Planning Commission **Maxey Ford – Parking Lot Addition** Site Plan Review #2 Page 3

- **5. Exterior Lighting.** The submittal includes a lighting plan proposing 4 new light poles, each with double fixtures. The photometric plan complies with maximum lighting intensities both on-site and along property lines. A detail on Sheet C8 notes the use of downward directed, cut-off LED fixtures.
- **6. Impact Assessment.** The submittal includes a revised Impact Assessment (dated June 22, 2016). In summary, the Assessment notes that the project is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

For the sake of accuracy and consistency, we do note that the Impact Assessment states that the storage lot is for 146 vehicles, while the plan provides for 141.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a>.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP Planning Manager



July 6, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Maxey Ford Parking Lot Expansion

**Site Plan Review #2** 

Dear Ms. Van Marter:

We have received the resubmitted impact assessment and site plan documents for the referenced project from Boss Engineering dated June 22, 2016. The site is located on an 11.27 acre parcel on the south side of Grand River Avenue and the petitioner is proposing to build an approximately 42,000 sft expansion to the existing parking lot on the west side of the property.

Tetra Tech reviewed the documents and found all outstanding items have been addressed.

Please call if you have any questions.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

Copy: Mike Maxey

Joseph C. Siwek, P.E.

### BRIGHTON AREA FIRE AUTHORITY

615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 28, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Bob Maxey Ford Parking Lot Expansion

> 2798 E. Grand River Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on June 27, 2016 and the drawings are dated June 22, 2016. The project is for the proposed addition of outdoor vehicle parking/storage lot. The lot will extend from the existing lot. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

1. The access drive shall be a minimum of 26' wide and shall be constructed to be capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds. (There are no dimensions provided for the drives and detail for surface must indicate its weight carrying capability)

IFC D 103.6 IFC D 103.1 IFC D 102.1 IFC D 103.3

- 2. Access shall provide emergency vehicles with turning radius of 30' inside and 50' outside and maintain a minimum vertical clearance of 13 ½ feet. Provide vehicle circulation plan from the existing drive through the new parking area. (No circulation was provided for emergency vehicles through new parking area, therefore radii cannot be determined as sufficient)
- 3. Provide names, addresses, phone numbers, emails of owner or owner's agent, contractor, architect, on-site project supervisor. (Contractor info is not provided)

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS

Fire Inspector

## IMPACT ASSESSMENT FOR BOB MAXEY FORD DEALERSHIP EXPANSION

## GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

Bob Maxey Ford 2798 E. Grand River Howell, Michigan 48843 517.545.5700

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MICHIGAN 48843 517-546-4836

June 22, 2016

#### INTRODUCTION

The purpose of this Impact Assessment (IA) report is to show the effect that this proposed development has on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Written Impact Assessment Requirements* guidelines in accordance with Section 18.07 of the published Zoning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

## A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared By: BOSS ENGINEERING COMPANY 3121 E. Grand River Howell, Michigan 48843

Prepared For: Bob Maxey Ford 2798 E. Grand River Howell, Michigan 48843

## B. Description of the site, including existing structures, man made facilities, and natural features, all-inclusive to within 100' of the property boundary.

Bob Maxey Ford is located on 11.7 acres on the south side of Grand River Avenue between Tenpenny Furniture to the west and Howell Elks Lodge to the east. Approximately 7.1 acres of the property is currently being used by the automobile dealership. The remainder of the site (4.6 acres) has been left in its natural state and undeveloped except for a retention basin in the southwest corner of the property.

The property is at a high point along Grand River Avenue with a majority of it sloping south and west to the existing retention basin area. A portion of the property sheet flows to the east. The total elevation change across the property is approximately 32 feet. The undeveloped portion of the property is covered with scattered trees, brush and native grasses.

Existing utilities on-site and abutting the site include a 12" water main along the south side of Grand River Ave., and an 8" water main running through the center of the property. The sanitary sewer service is provided to the dealership through a sanitary lead which connects to the public sewer located near the southeast corner of the property. The storm sewer system is self contained on site.

Grand River Avenue is a five (5) lane roadway under the jurisdiction of the Michigan Department of Transportation (M.D.O.T.) with curb and gutter, and a center left turn lane.

Also, a small portion of the existing parking lot currently extends into the Grand River Avenue right-of-way by 4 feet. Section 24.10 of the Genoa Township Ordinance states "Where a non-conforming front setback, parking lot setback or green belt is created as a result of additional road right-of-way width being acquired by a road agency, the building or parking lot may be improved or expanded without the need to obtain a variance from the ZBA, providing the following conditions are met:"

1. Conformed Prior to Right-of Way Widening – Even though Boss Engineering has been working on the site since 1998, we do not have any record of the original site plan and how it related to

- the Grand River right-of-way. The asphalt was installed prior to the previous owner purchasing the dealership which was in 1996.
- 2. Will Not Decrease Conformity Our plan is to leave the front area untouched. Therefore, not decreasing the conformity.

#### C. Impact on natural features: A written description of the environmental characteristics of the site prior to development, i.e., topography, soils, vegetative cover, drainage, streams, creeks or ponds.

As previously mentioned, the subject site slopes gradually from Grand River towards the southwest. The U.S.D.A. Soil Conservation Service "Soil Survey of Livingston County" indicates the soils to be as follows:

Percent of Site Name Percent Slopes

100% Miami Loam 2-6%

The site contains no streams, creeks, lakes or regulated wetlands per the National Wetland Inventory Plan prepared by the United States Department of the Interior, and site visit.

The undeveloped portion of the site contains a mix of trees, brush and grasses.

## D. Impact on storm water management: description of soil erosion control measures during construction.

Most of the existing storm drainage runoff is captured in a retention basin located at the southwest corner of the property. The dealership is proposing expanding the area for their new auto parking area. The area where the expansion is proposed currently and will continue to drain into the existing retention basin. The existing storm water forebay will treat the initial runoff per the requirements of the Livingston County Drain Commission requirements.

The Livingston County Drain Commissioner must issue a Soil Erosion Control permit to ensure proper soil erosion control measures are used during construction. All requirements will be met including temporary drainage control, temporary dust control and runoff control. The following methods will be used as required, diversion berms, geotextile sediment control fences, diversion ditching, and slope stabilization. Stone filters will be installed on catch basins, inlets and pipe inlets. Finish grades, redistribution of top soil and lawn will be installed upon paving construction completion. Pavements, swales, basins, etc will be cleaned after construction and properly maintained by Maxey Ford.

At the time of construction, there may be some temporary dust, noise, vibration and smoke, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimize the effects, such as watering if necessary for dust control and working near adjacent buildings only during daytime hours.

## E. Impact on surrounding land use: Description of proposed usage and other man made facilities; how it conforms to existing and potential development patterns. Effects of added lighting, noise or air pollution which could negatively impact adjacent properties.

The owner is proposing to construct an expanded new vehicle parking area between the existing commercial development along Grand River Avenue and the retention basin. This would add an additional 146 parking spaces. This would be a holding area prior to vehicles being sold. Therefore, the amount of traffic in and out of this area would be minimal. Also, the parking area

was pushed as far north as possible towards the existing commercial development along Grand River Avenue in order to minimize the impact to the residence to the south.

## F. Impact on public facilities and services: Description of number of residents, employees, patrons, and impact on general services, i.e., schools, police, fire.

The improvements will have little or no effect on the existing infrastructure and services in the area.

## G. Impact on public utilities: Description of public utilities serving the project, i.e., water, sanitary sewer, and storm drainage system. Expected flows projected in residential units.

Except for a short run of storm sewer, no additional utilities will be added as part of this project.

Because the storm sewer system is located entirely on the site, limited impact is anticipated from storm events.

## H. Storage or handling of any hazardous materials: Description of any hazardous materials used, stored, or disposed of on-site.

The automobile fluids (new and used) kept on site will be stored or disposed of in accordance with current local, state and federal requirements.

## I. Impact on traffic and pedestrians: Description of traffic volumes to be generated and their effect on the area.

Based on the Institute of Transportation Engineers Publication TRIP GENERATION manual for automobile care centers, the number of trips in an average weekday is 1500, with the peak being between 4:00 PM and 6:00 PM.

#### Traffic Impact Statement

Bob Maxey Ford is located on Grand River Avenue which is under the jurisdiction of the Michigan Department of Transportation. The five lane road has two west and two east bound lanes with a center turn. Michigan Department of Transportation has no plans to make any modifications to the current configuration of the road.

There are three drive approaches onto the site from Grand River. The first two are on either side of the new vehicle showroom, and the final drive approach is a shared approach with the development to the west. No improvements are proposed for the three approaches.

#### J. Special provisions: Deed restrictions, protective covenants, etc.

None

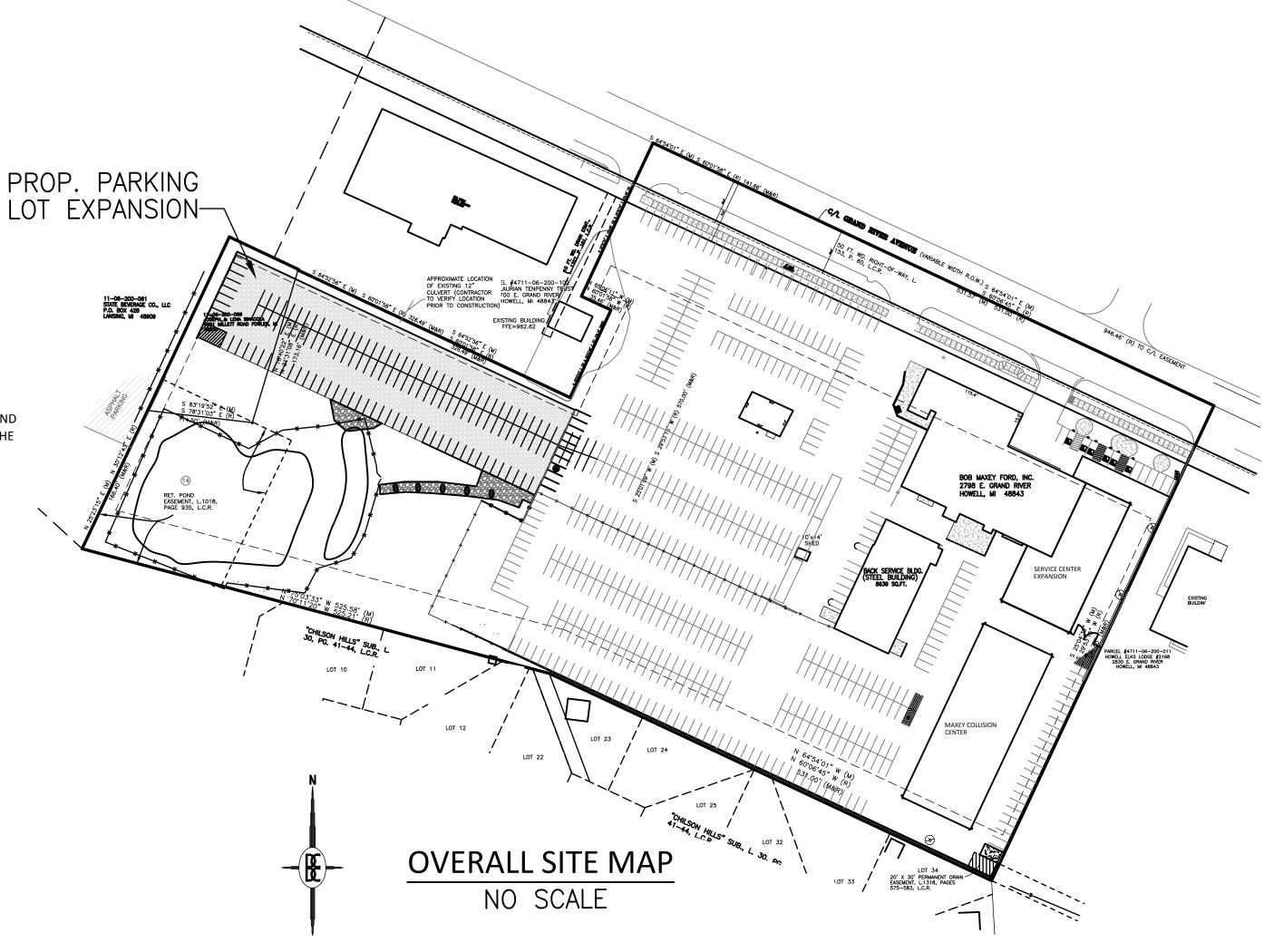
#### K. Description of all sources:

- Genoa Township's Submittal Requirements For Impact Assessment/Impact Statement
- Genoa Township Zoning Ordinances
- Soil Survey of Livingston County, Michigan, U.S.D.A. Soil Conservation Service
- Trip Generation 6<sup>th</sup> Edition, Institute of Transportation Engineers

# SITE / CONSTRUCTION PLANS

## BOB MAXEY FORD OF HOWELL DEALERSHIP EXPANSION

PART OF NE 1/4 SEC. 6, T.2N., R.6E. GENOA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN





	SHEET INDEX
SHEET NO.	DESCRIPTION
C1 C2 C3 C4 C5 C6 C7 C8 C9	COVER SHEET SITE PLAN GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN UTILITY PLAN LANDSCAPE PLAN LIGHTING PLAN EXISTING CONDITIONS & DEMOLITION PLAN CONSTRUCTION NOTES & DETAILS MHOG SANITARY SEWER DETAILS

## BOB MAXEY FORD DEALERSHIP EXPANSION

**OWNER** 

**BOB MAXEY FORD** 2798 E. GRAND RIVER HOWELL, MICHIGAN 48843 CONTACT: MR. MICHAEL MAXEY

PHONE: 517-545-5700

CIVIL ENGINEER/LANDSCAPE ARCHITECT



					C1
1	TD		TWP. REVIEW	6-22-16	ISSUE DATE: 5-27-16
NO	BY	CK	REVISION PER	DATE	13-182

## PROPERTY DESCRIPTION:

(Per Metropolitan Title Company, Commitment No. NU-412578, effective date March 28, 2002 at 8:00 A.M.): Revision E, May 13, 2002

Land in the Township of Genoa, Livingston County, Michigan, described as follows: Parcel 1: A part of the Northeast fractional 1/4 of Section 6, Town 2 North, Range 5 East, described as follows: Commencing at the East 1/4 corner of said Section 6; thence N 87°31'15" W 804.54 feet; thence N 1°34'30" E 1022.16 feet; thence N 60°06'45" W 616.07 feet along the centerline of Grand River Avenue to the point of beginning of the land to be described; running thence N 60°06'45" W 531.00 feet along the centerline of Grand River Avenue; thence S 29°53'15" W 570.00 feet; thence S 60°06'45" E 531.00 feet; thence N 29°53'15" E 570.00 feet to the point of beginning. Parcel 2: Part of the Northeast 1/4 of Section 6, Town 2 North, Range 5 East, Genoa Township, Livingston County, Michigan, Described as follows: Commencing at the East 1/4 corner of said Section 6; thence N 87°24'40" W 1616.81 feet along the East-West 1/4 line to a found iron rod; thence N 01°33'53" E 796.77 feet to a found concrete monument; thence N 60°06'45" W 531.00 fee to a found concrete monument and to the point of beginning of the land to be described; running thence N 70°11'20" W 525.21 feet (recorded as N 70°16'30" W 525.00 feet) to a found 1/2 inch iron rod; thence N 30°12'43" E 166.40 feet (recorded as N 29°41'36" E 166.45 feet) to a found 1/2 inch iron rod; thence S 78°31'03" E 114.50 feet (recorded as S 78°38'13" E 114.55 feet) to a found 1/2 inch iron rod; thence N 21°31'08" E 173.16 feet (recorded as N 21°26'18" E 173.06 feet) to a found 1/2 inch iron rod; thence S 60°01'58" E 326.49 feet (recorded as S 60°06'45" E) to a set 1/2 inch iron rod; thence N 29°52'49" E 105.14 feet to a set 1/2 inch iron rod; thence N 60°01'58" W 35.46 feet to a set 1/2 inch iron rod; thence N 29°52'49" E 183.46 feet and passing through the centerline of a curb cut to the centerline of Grand River Avenue: thence S 60°01'58" E 141.66 feet (recorded as S 60°06'45" E) along the centerline of Grand River Avenue; thence S 29°52'49" W 570.00 feet (recorded as S 29°53'15" W 570.00 feet) to the point of beginning.

Easement for Common Driveway as created, limited and defined in the document entitled Grant of Common Driveway Easement dated January, 15, 1997, recorded in Liber 2147, page 719, Livingston County Records.

Tax Item No. 11-06-200-058 Tax Item No. 11-06-200-103 Tax Item No. 11-06-200-066

## **CONSTRUCTION NOTES**

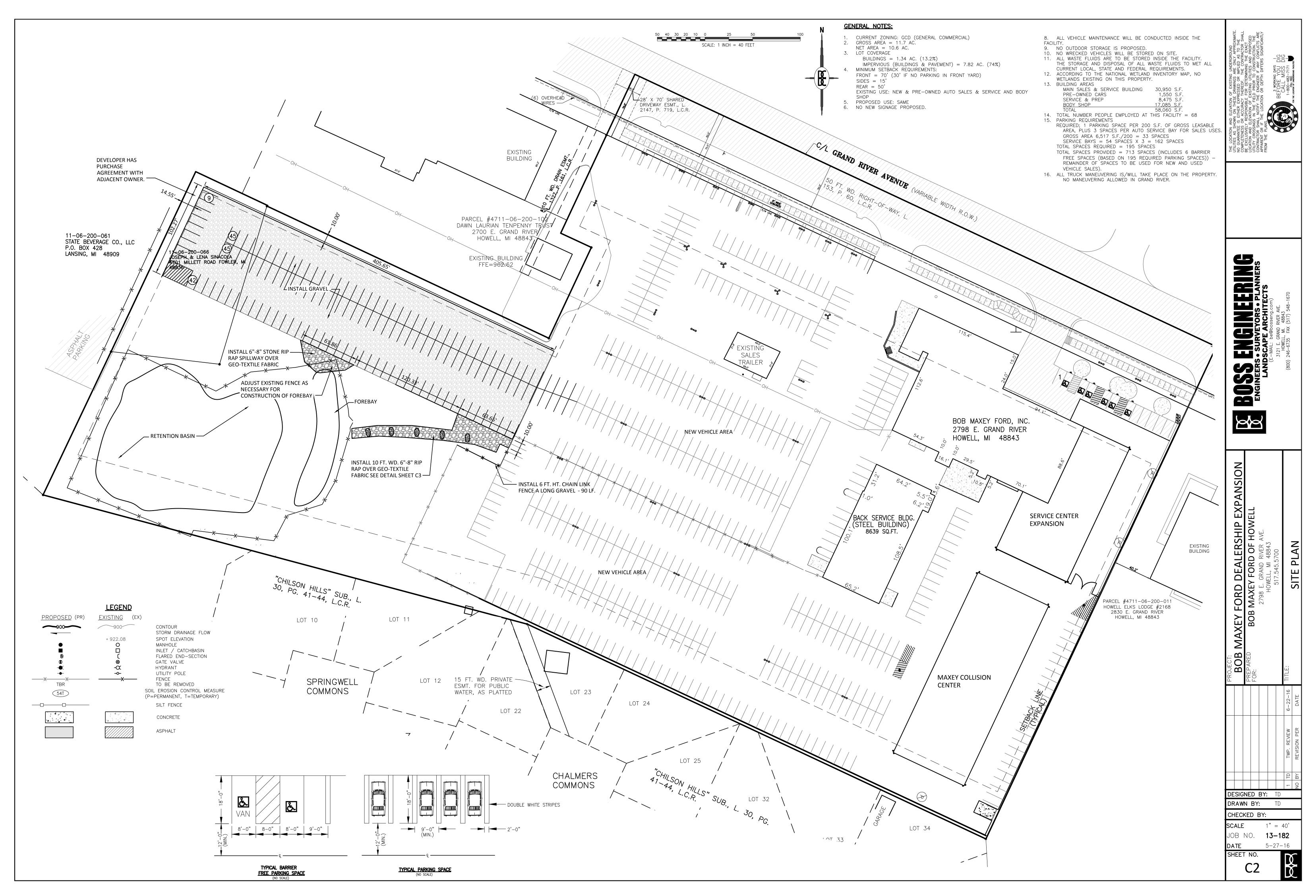
- THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT CONTRACTOR AND/OR THEIR SUBCONTRACTORS.
- 2. DO NOT SCALE THESE DRAWINGS AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION
- CONSTRUCTION.
- 5. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS. 7. PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE, ATTRACTIVE CONDITION AS ORIGINALLY DESIGNED AND CONSTRUCTED.
- 8. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS.
- 9. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF CONSTRUCTION.
- 11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.
- 13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING
- PROPERTY PROTECTED FROM DAMAGE.
- 14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.

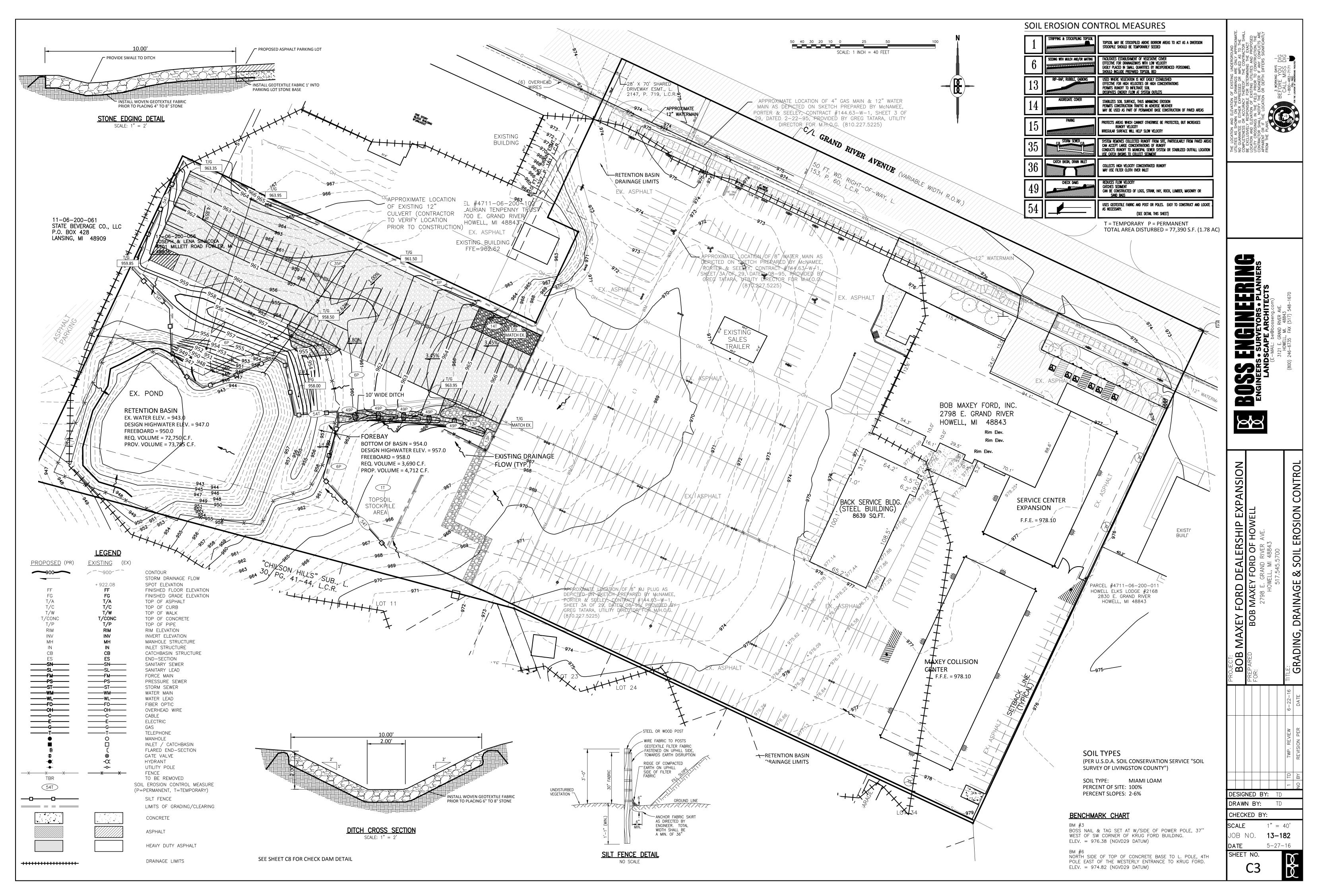
12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.

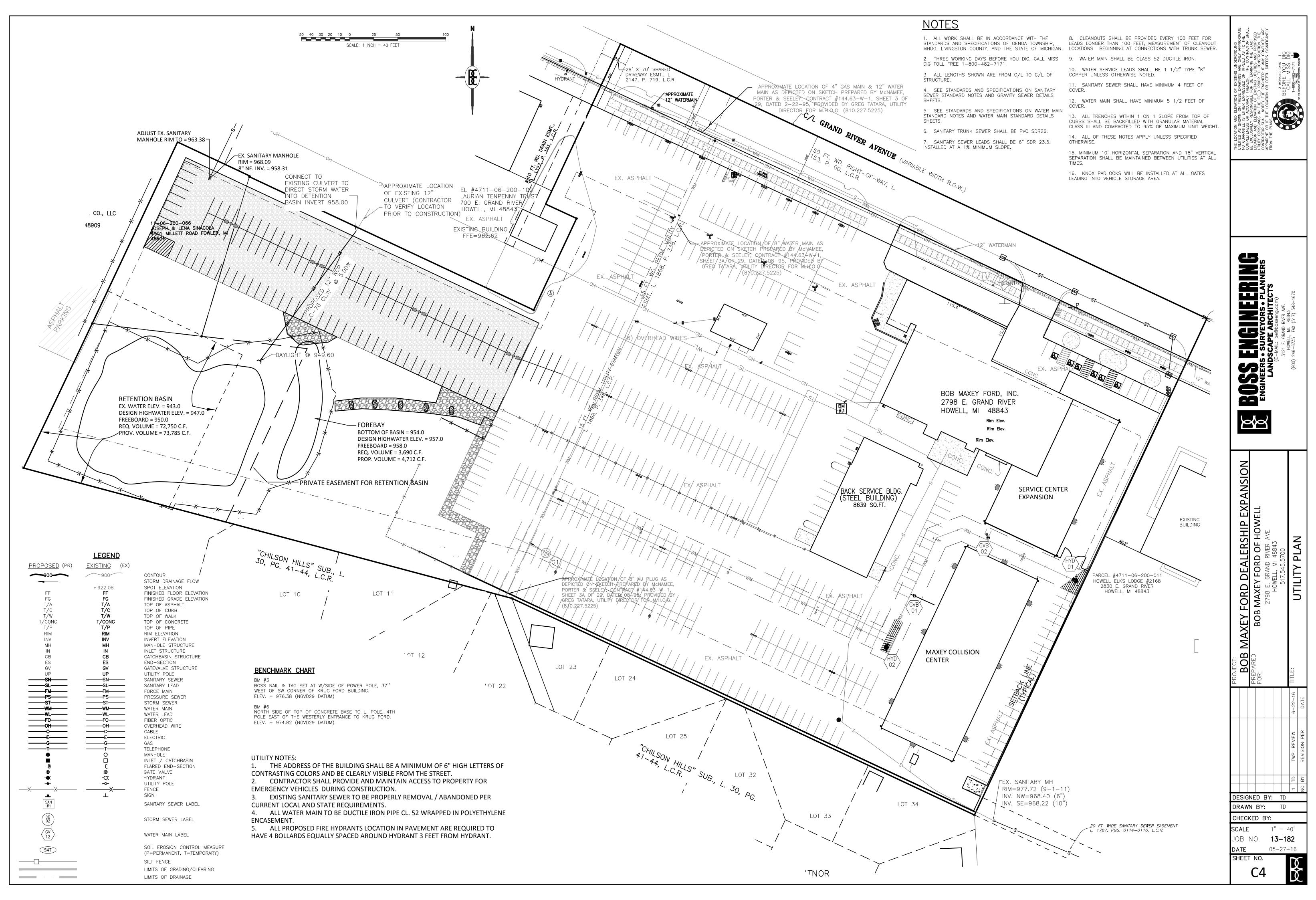
- 15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND
- 17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. 18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.
- 19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE
- 20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS
- 21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER. 22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.
- 24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS
- SPECIFIED OR DIRECTED BY THE ENGINEER. 25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.
- 26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE.
- 27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT. 29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE
- 30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.
- 31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.
- 33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.

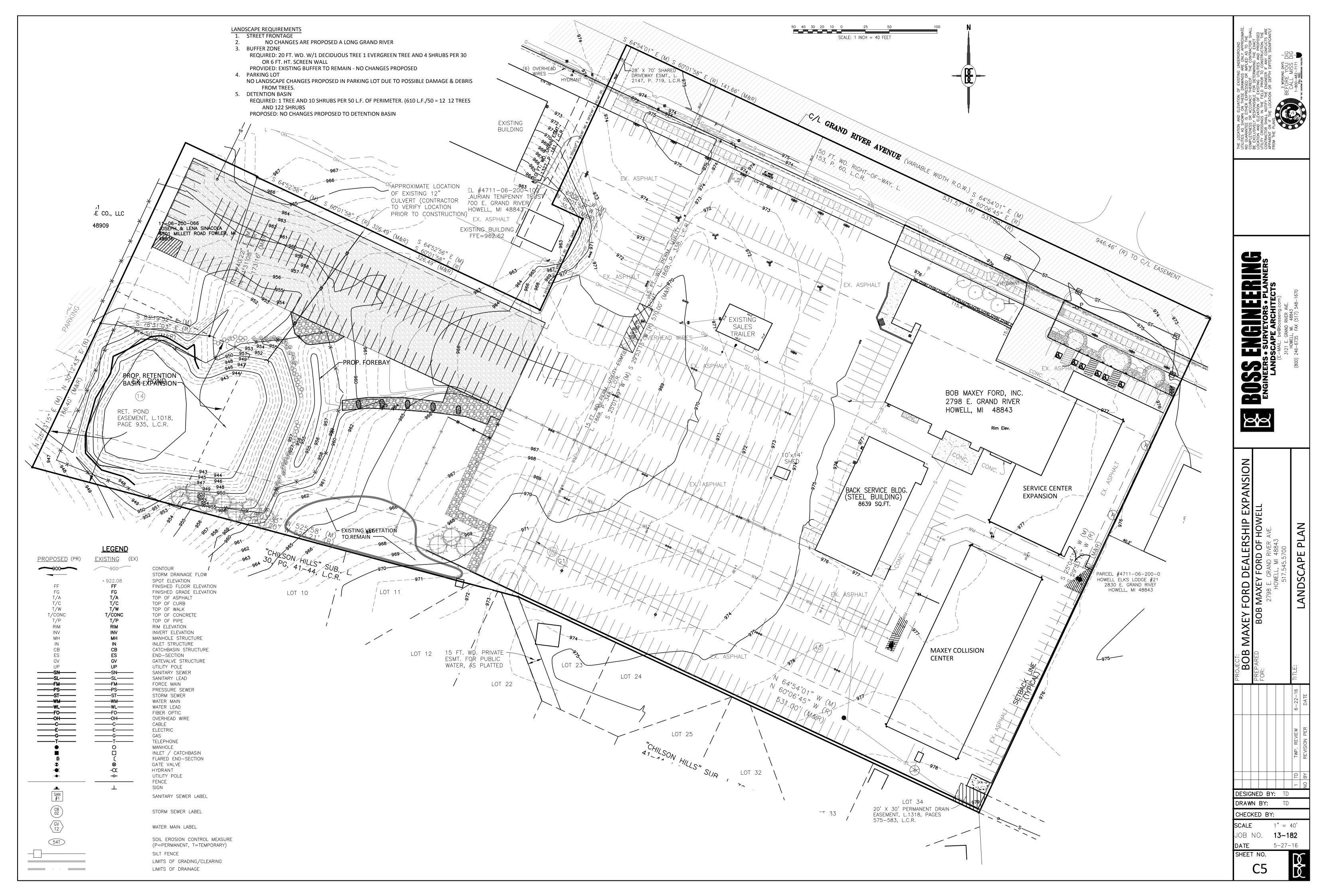
## INDEMNIFICATION STATEMENT

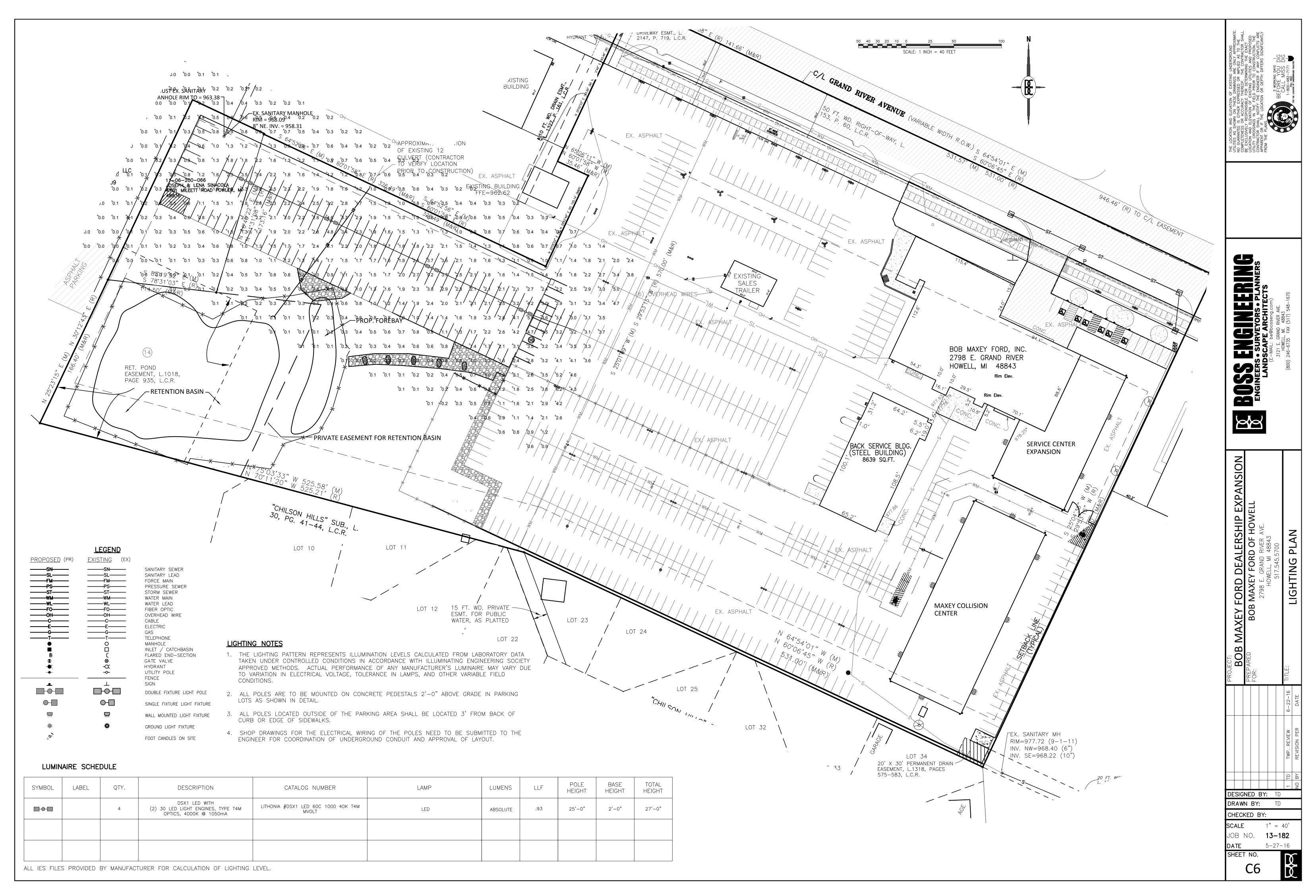
THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

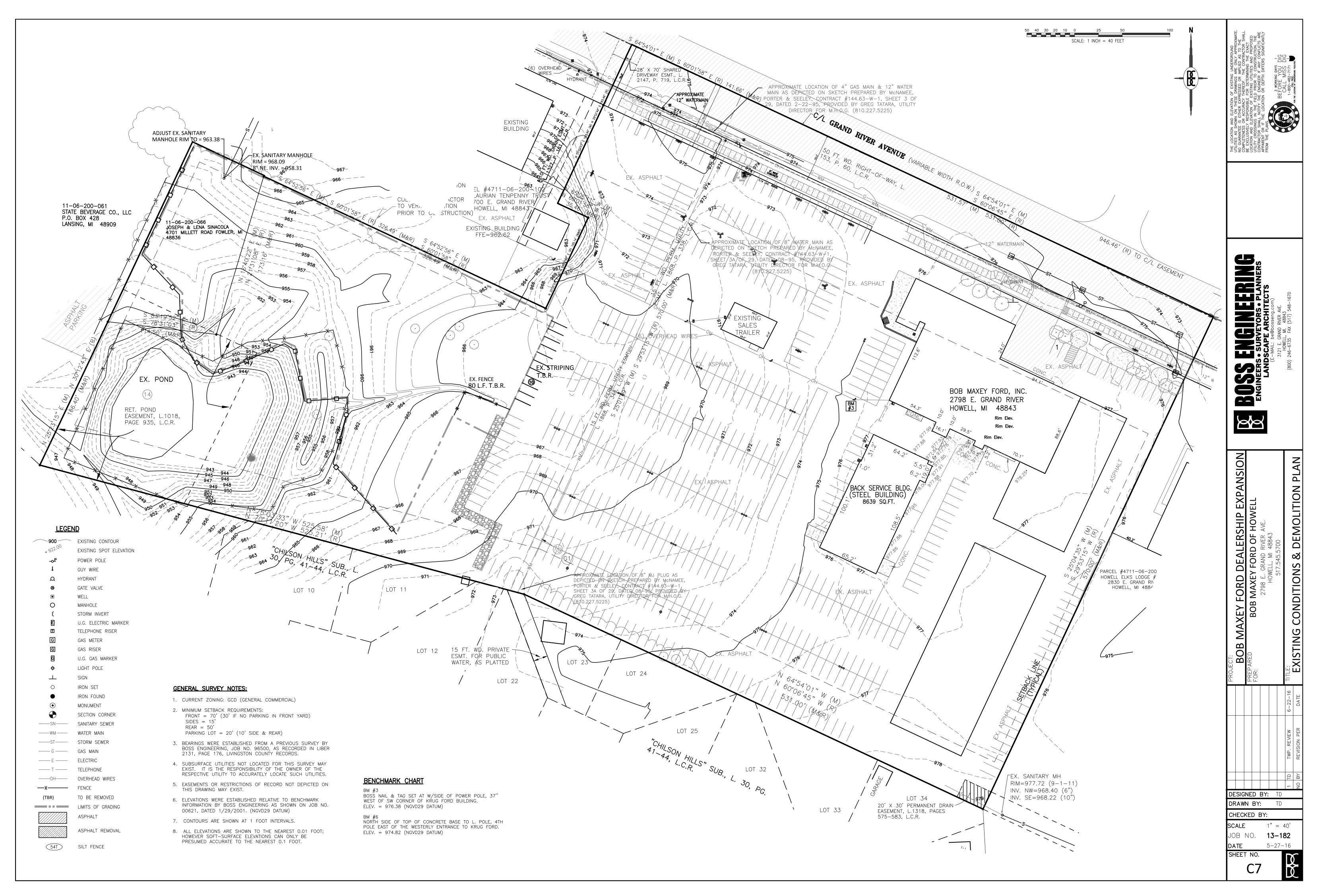












#### LIVINGSTON COUNTY SOIL EROSION PERMIT TEMPLATE TEMPORARY CONTROLS AND SEQUENCE

NOTIFY LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE 24 HOURS PRIOR TO START OF GRADE WORK. IN ACCORDANCE WITH PUBLIC ACT NO. 53, OF 1974 THE PERMIT HOLDER SHALL CALL MISS DIG FOR STAKING AND LOCATING OF UTILITIES, AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY WORK.

(IMPORTANT NOTICE) RETENTION/DETENTION PONDS SHALL BE EXCAVATED, TOPSOILED, SEEDED, MULCHED AND TACKED PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. INGRESS/EGRESS MUST HAVE LARGE CRUSHED ROCK TO REDUCE THE TRACKING OF SOIL ONTO THE PUBLIC TRAFFIC AREAS. SEE DETAIL ITEMS BELOW.

36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS CONSTRUCTION, WIDTH SHALL INCREASE AS DISTANCE FROM THE OUTLET SHALL BE PLACED AND MAINTAINED ALONG PERIMETER ON ALL LOW LYING AREAS OF POINT INCREASES AT A 3:1 RATIO. THE CONSTRUCTION SITE TO FILTER RUNOFF BEFORE LEAVING PROJECT SITE.

ALL TEMPORARY EROSION CONTROL DEVICES AS NOTED ON PLANS SHALL BE INSTALLED PRIOR TO THE START OF MASSIVE EARTH DISTRIBUTION.

PLAN DOES DENOTE A DETAILED EROSION CONTROL DEVICE TO RESTRICT TRACKING OF MATERIAL ONTO THE HIGHWAY. STONE DIAPERS SHALL BE INSTALLED AT ALL INGRESS/EGRESS AREAS OF THE SITE PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. DIAPERS SHALL BE OF CRUSHED STONE AND SHALL HAVE A MINIMUM LENGTH OF 100'

### RETENTION PONDS

PERMITTING STANDARDS

RETENTION/DETENTION/SEDIMENTATION PONDS SHALL BE EXCAVATED, TOPSOILED, SEEDED, MULCHED AND TACKED PRIOR TO THE START OF MASSIVE

DETENTION POND OUTLETS SHALL BE OF THE STANDPIPE AND STONE FILTER SYSTEM, WITH TRASH SCREEN. OUTLET FLOW SHALL NOT EXCEED 0.20 CUBIC FEET OF WATER PER SECOND/PER ACRE. POND DIKES SHALL HAVE A MINIMUM OF ONE (1) FOOT OF FREEBOARD. AN EMERGENCY SPILLWAY SHALL BE CONSTRUCTED WITHIN THE FREEBOARD LEVEL. THE EMERGENCY SPILLWAY FROM THE DETENTION POND SHALL BE SODDED AND PEGGED, OR RIP RAPPED, 15 FEET PAST THE TOE OF THE

10. DIKES AND BERMS SHALL BE FREE OF ALL ORGANIC MATTER. RETENTION/DETENTION PONDS SHALL BE FENCED WITH A 4' CHAIN LINK FENCE, INCLUDING A 12' ACCESS GATE FOR MAINTENANCE UNLESS MINIMUM 5 FT. HORIZONTAL TO 1 FT. VERTICAL SIDE SLOPES ARE PROVIDED THE FENCE SHALL BE INSTALLED AT THE OUTER PORTION OF THE BERM, TO ALLOW FOR MAINTENANCE WORK TO BE DONE INSIDE THE FENCE. ALL UNIMPROVED DISTURBED AREAS SHALL BE STRIPPED OF TOPSOIL WHICH WILL BE STORED ONSITE DURING THE EXCAVATING STAGE. TOPSOIL PILES SHALL BE SEEDED AND MULCHED, OR MATTED WITH STRAW

SOIL EROSION CONTROLS SHALL BE MONITORED DAILY BY THE

#### SLOPES AND DITCHES

ON SITE DITCHES SHALL BE OF THE FLAT BOTTOM TYPE MINIMUM WIDTH OF 2' WITH A MINIMUM OF 3 HORIZONTAL TO 1 VERTICAL SIDE SLOPES, 3:1. 15. DITCHES WITH STEEP SLOPES WILL NEED FLOW CHECKS TO PREVENT SCOURING OF THE DITCH BOTTOM. THESE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR INSPECTOR. 16. SLOPES IN EXCESS OF 3 HORIZONTAL TO 1 VERTICAL SHALL NOT BE

IN THE NON-GROWING SEASON, IMMEDIATELY AFTER THE STRIPPING

PROCESS IS COMPLETED, TO PREVENT WIND AND WATER EROSION.

ON-SITE ENGINEER, OR CONTRACTOR, WHICHEVER CASE APPLIES.

USED EXCEPT WITH A MECHANICAL DEVICE SUCH AS A RETAINING WALL, TERRACING, OR OTHER PRIOR APPROVED DEVICE.

ALL STORM WATER STRUCTURES, CATCH BASINS AND/OR MANHOLES, IF BLOCK, SHALL BE PLASTERED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURES. GROUTING AND POINTING WILL BE NECESSARY AT THE CASTING AND STRUCTURE JOINT TO PREVENT LEAKAGE AND THE RESULTING SOIL MOVEMENT, AROUND THE STRUCTURE.

STORM WATER INLETS SHALL HAVE AS A TEMPORARY CONTROL A STRAW BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING STRUCTION. AS AN ALTERNATIVE TO THE STRAW BALE BARRIER. A BURLAP AND PEA STONE FILTER MAY BE USED. THREE LAYERS OF BURLAP FIBER AND A FILTER OF PEA STONE MINIMUM 1 FT. IN DEPTH CAN BE USED. DUE TO THE POROSITY OF THE BURLAP FILTER THE MINIMUM OF 1 FT. OF STONE IS VERY IMPORTANT. THE CONTROL SHALL BE INSTALLED AS SOON AS THE STRUCTURE IS BUILT AND INSPECTED DAILY. BURLAP AND PEA STONE FILTERS WILL NEED TO BE CHANGED AFTER COUNTY CODE REQUIRES A MINIMUM PIPE SIZE OF 12" IN DIAMETER. IF SMALLER PIPE IS NEEDED FOR OUTLET PURPOSES THE 12" CAN BE

BAFFLED TO THE CORRECT SIZE. ALL PIPE SHALL MEET THE 12" DIAMETER CODE SIZE. ALL STORM DRAIN OUTLETS 15" IN DIAMETER OR LARGER SHALL HAVE ANIMAL GUARDS INSTALLED TO PREVENT ENTRANCE TO THE SYSTEM.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED

INSTALL SILT FENCE AS SHOWN ON PLANS. ROUGH GRADE AND INSTALL STORM DRAINAGE. INSTALL INLET PROTECTION ON STORM INLETS.

REMOVE ALL EROSION CONTROL STRUCTURES.

REMOVE ACCUMULATED SILT FROM ALL EXISTING DRAINAGE

ND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS

FINE GRADE AROUND BUILDING, SPREAD TOPSOIL, SEED OR SOD AS APPLICABLE

CONSTRUCTION SEQUENCE

1 DAY

INSTALL PAVEMENT

22. ALL STORM DRAINAGE PIPE 30" IN DIAMETER OR LARGER SHALL BE POINTED, AT THE JOINTS ON THE INSIDE WITH MORTAR, AFTER BACKFILLING.

23. ALL STORM DRAIN OUTLETS THAT DO NOT EMPTY INTO THE RETENTION/DETENTION POND SHALL HAVE A TEMPORARY 5'X10'X3' SUMP INSTALLED AT THE TERMINATION OF THE STORM SEWER. UPON COMPLETION OF THE STABILIZATION WORK THE SUMP AREA SHALL BE FILLED AND RIP RAPPED WITH COBBLE STONE. SILT TRAPS SHALL BE INSPECTED AFTER EACH STORM. STORM WATER OUTLETS DO DENOTE RIP RAP. ALL OUTLETS

SHALL BE RIP RAPPED OVER KEYED FILTER FABRIC WITH A MINIMUM OF 15 SQ. YARDS OF 6" OR LARGER COBBLE STONE. RIP RAP AS NOTED ON THE PLAN SHALL BE OF A FUNNEL SHAPE RIP RAP SHALL BE OF COBBLE STONE, 6" IN DIAMETER OR LARGER.

GROUTING MAY BE NECESSARY, AND SHALL BE A MINIMUM OF 6" IN DEPTH WITH THE COBBLE SET IN THE CEMENT SLURRY. STORM WATER OUTLET IS IN NEED OF A SPLASH BLOCK WHICH IS NOT NOTED ON THE PLAN. INSTALL SPLASH BLOCK IF SLOPE OF THE PIPE IS 4% OR GREATER. IT WILL BE NECESSARY FOR THE DEVELOPER TO HAVE THE STORM DRAINAGE LINES CLEANED PRIOR TO FINAL INSPECTION BY THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE. IF REQUIRED, THIS WORK SHALL BE DONE BY A PROFESSIONAL SEWER CLEANING FIRM AND CERTIFIED IN WRITING BY THE PROJECT ENGINEER. ALL SUMPS AND TEMPORARY SILT TRAPS SHALL ALSO BE CLEANED AT THIS TIME.

ALL UNIMPROVED DISTURBED AREAS SHALL BE RE-TOP SOILED, WITH A MINIMUM OF 3" OF MATERIAL, SEEDED, MULCHED AND TACKED WITHIN 15 DAYS OF THE COMPLETION OF THE MASSIVE EARTH DISRUPTION. IN THE NON-GROWING SEASON STRAW MATTING WILL SUFFICE. HYDROSEEDING WILL BE AN ACCEPTABLE ALTERNATE FOR MULCHING. EXTREME CARE SHOULD BE EXERCISED IN SPRING AND FALL PERIODS AS A FROST WILL BREAK THE BIND OF THE HYDROSEEDING, WHICH WILL AFFECT THE FFFECTIVENESS OF THIS PROCEDURE. IN THE NON-GROWING SEASON, TEMPORARY STABILIZATION OF MASSIVELY EXPOSED AREAS FOR WINTER STABILIZATION SHALL BE DONE

WITH STRAW MATTING. PERMIT FEES DURING THE WINTER PERIOD OF NON-CONSTRUCTION, (DECEMBER 1 THROUGH MARCH 31), SHALL NOT BE IMPOSED IF THE PERMIT HOLDER TEMPORARILY STABILIZES THE EXPOSED AREAS WITH STRAW MATTING, AND OTHER APPROVED CONTROLS, AND OBTAINS A WINTER STABILIZATION CERTIFICATE FROM THIS OFFICE. PERIODIC INSPECTIONS WILL BE MADE THROUGHOUT THE COURSE OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE MANAGERS OF THE PROJECT TO CONTACT THIS OFFICE FOR THE FINAL INSPECTION AT

THIS COMMERCIAL PERMIT IS VALID FOR THE MASS EARTH MOVEMENT, THE INSTALLATION OF ROADS, DRAINS, AND UTILITIES AND IS NOT FOR ANY SINGLE FAMILY RESIDENCE. ALL RESIDENTIAL BUILDERS WILL NEED TO SECURE WAIVERS AND OR PERMITS AS NECESSARY FOR EACH LOT IN THIS DEVELOPMENT AT THE TIME APPLICATION FOR SINGLE FAMILY RESIDENCE IS MADE. 34. THE ISSUING BUILDING DEPARTMENT SHALL NOT ISSUE THE

CERTIFICATE OF OCCUPANCY UNTIL THE FINAL INSPECTION LETTER FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE HAS BEEN PER THE LIVINGSTON COUNTY DRAIN COMMISSIONER THE SEEDING, FERTILIZER AND MULCH MINIMUM QUANTITIES SHALL BE AS FOLLOWS:

TOP-SOIL GRASS SEED 218 LBS. PER ACRE FFRTII I7FR 150 LBS, PER ACRE

TACKIFIFR.

STRAW MULCH 3" IN DEPTH 1.5 TO 2 TONS PER ACRE (ALL MULCHING MUST HAVE A TIE DOWN, SUCH AS TACKIFIER, NET BINDING, ETC.) HYDRO-SEEDING HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES EXCEEDING 1%. IN SUCH CASES STABILIZATION SHALL BE DONE WITH SEED AND STRAW MULCH WITH A

#### SANITARY SEWERS

SANITARY SEWER TAP TO THE GENOA-OCEOLA SANITARY COUNTY DRAIN, SHALL ONLY BE MADE AFTER SECURING IN WRITING CLEARANCE FROM THE GENOA TOWNSHIP AND A SEWER TAP PERMIT FROM THE LIVINGSTON COUNTY DEPARTMENT OF BUILDING &

A TAP PERMIT WILL BE NEEDED BY THE OWNER/DEVELOPER OF THIS PROJECT TO TAP TO THE LEGALLY ESTABLISHED COUNTY STORM DRAIN. THE OWNER/DEVELOPER SHALL MAKE A WRITTEN REQUEST TO THE DRAIN COMMISSIONER TO REQUEST THE TAP TO THE STORM SEWER. THE FEES FOR SUCH TAP ARE AS FOLLOWS: NON REFUNDABLE ADMINISTRATIVE FEE OF \$50.00, TO BE PAID AT THE TIME OF APPLICATION.

INSPECTION FEES ARE BASED ON TIME AND MATERIAL BASIS FROM PORT TO PORT FOR THE ON-SITE INSPECTOR. INSPECTORS RATE, VEHICLE MILEAGE, AND 0.5 HOURS OF REPORT PREPARATION TIME WILL BE CHARGED AS WELL AS ANY NECESSARY MATERIALS. TIME AND MATERIAL FEES ARE PAID AT THE COMPLETION OF THE TAP INSTALLATION.

#### MAINTENANCE SCHEDULE FOR SOIL EROSION CONTROLS

SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH MAJOR STORM EVENT. MAINTENANCE SHALL INCLUDE REMOVAL OF ACCUMULATED SILT AND REPLACEMENT OF TORN SECTIONS. SILT FENCE SHALL BE REMOVED WHEN ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED. TRACKING PAD SHALL BE INSPECTED MONTHLY FOR ACCUMULATED DIRT. TRACKING PAD SHALL BE REPLACED WHEN THE STONES ARE CHOKED WITH DIRT. TRACKING PAD SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FIRST COURSE OF ASPHALT BEING LAID.

DETENTION/RETENTION POND SHALL BE INSPECTED QUARTERLY ON A PERMANENT BASIS. MAINTENANCE SHALL INCLUDE SEDIMENT REMOVAL, EMBANKMENT STABILIZATION AND MAINTAINING THE OUTLET STRUCTURE IN GOOD CONDITION. NO TREES SHALL BE ALLOWED TO GROW ON THE EMBANKMENT. CATCH BASINS SHALL BE INSPECTED ANNUALLY FOR ACCUMULATION OF SEDIMENT. ALL SEDIMENT MUST BE REMOVED AND DISPOSED OF PROPERLY WHEN THE SUMP IS FULL. COMMON AREAS SHALL BE STABILIZED NO LATER THAN 15 DAYS

COVER BRONZE

2 SETS OF NUTS (TYP.)

#6 CU BARE GRD WIRE

RIGID GALVANIZED

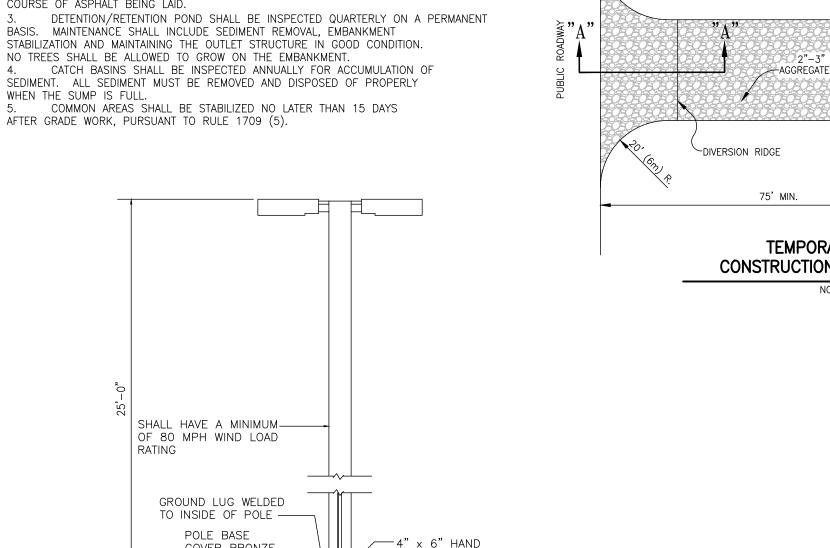
STEEL CONDUIT

(T)2<sup>P,</sup>)DIA. x 10'

LONG GRD. ROD

(COPPER CLAD)

(ONE AT EACH



HOLE WITH COVER

∕—14" SQ. x 5"

—1" CHAMFER

BASE COVER

— FINISHED GRADE

- ANCHOR BOLTS PER

PVC CONDUIT (TYP.)

CONDUIT ADAPTER

MANUFACTURER'S

REQUIREMENTS

RGS TO PVC

~CONCRETE

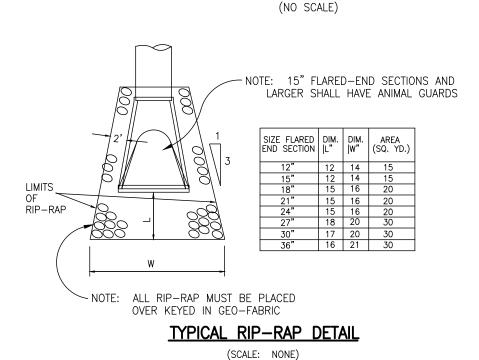
DIVERSION RIDGE REQUIRED -

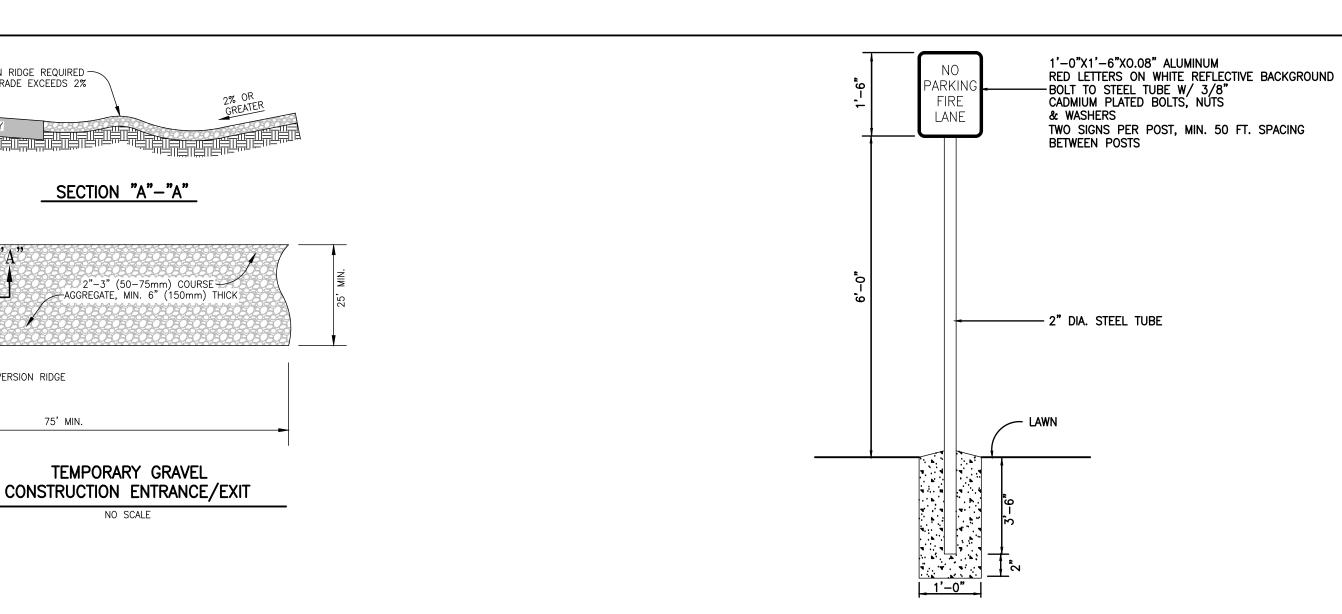
WHERE GRADE EXCEEDS 2%

## DOUBLE LIGHT FIXTURE DETAIL (TYP.)

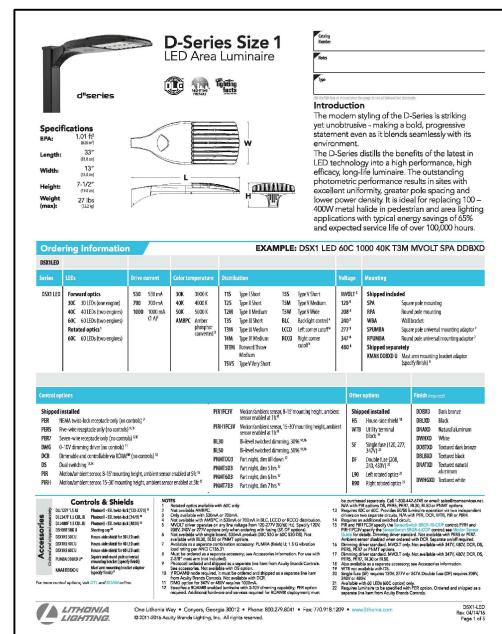
NO SCALE

ROUND



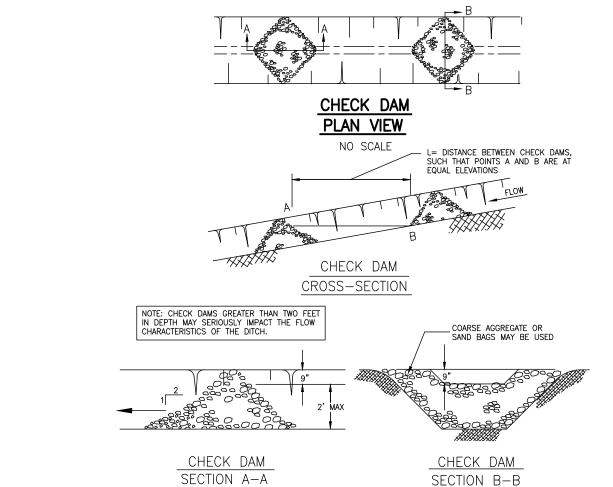


## NO PARKING SIGN DETAIL (NO SCALE)



#### CONTROLS & MEASURES POST CONSTRUCTION SEQUENCE WEEKLY MONTHLY AS REQUIRE LANDSCAPING, REPLACE MULCH CLEAN INLETS Χ COLLECT LITTER Χ SWEEP PARKING LO

CONTROLS &	MEASURES NARRATIVE
ACTIVITY	DESCRIPTION
MAINTAIN LANDSCAPING, REPLACE MULCH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOD, TREES AND SHRUBS.
CLEAN INLETS	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.
COLLECT LITTER	DISPOSE OF WITH INLET DEBRIS.
SWEEP PARKING LOT	REMOVE MUD, DIRT, GREASE AND OIL WITH PERIODIC SWEEPING
DUST CONTROL	SPRINKLE WATER AS NEEDED



NO SCALE

8" 21AA CRUSHED ASPHALT COMPACTED SUB-BASE TO 95% DENSITY **GRAVEL PARKING LOT SECTION** 

(NO SCALE)

FOREBAY DESIGN CALCULATIONS FOREBAY SIZE BASED ON 5% OF TOTAL VOLUME PROPOSED RETENTION = 73,785 C.F.

FOREBAY VOLUME = 73,785 C.F. X 0.05 = 3,690 C.F.

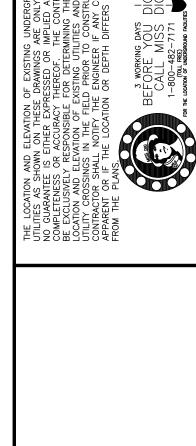
<b>FOREBAY STO</b>	RAGE VOLUME	PROVIDED:			
		Ė			
ELEV	AREA	VOLUME	VOLUME		
958	8025	5740	10452		
957	3454	2766	4712	STORAGE VOLUM	ИE
956	2078	1493	1946		
955	907	454	454		
954	0				

#### RETENTION BASIN DESIGN CALCULATIONS RETENTION BASIN SIZED FOR 2" OF RUNOFF OVER THE ENTIRE DRAINAGE AREA. DRAINAGE = 10.02 AC. (436,498 S.F.)

REQUIRED RETENTION = 436,498 X 2/12 = 72,750 C.F. BASIN STOPAGE

<u>BA</u>	<u>ISIN STORAGE</u>				
ELEV.	AREA	DEPTH	VOLUME	TOTAL	
	(FT <sup>2</sup> )	(FT)	(FT <sup>3</sup> )	VOLUME	
				(FT <sup>3</sup> )	
950	29780	1	28,487	152,006	FREEBOARD ELEVATION
949	27194	1	26,021	123,519	FREEBOARD ELEVATION
948	24848	1	23,714	97,498	FREEBOARD ELEVATION
947	22579	1	21,533	73,785	DESIGN HIGHWATER ELEVATION
946	20487	1	19,458	52,252	
945	18428	1	17,398	32,794	
944	16367	1	15,397	15,397	
943	14426		0	0	

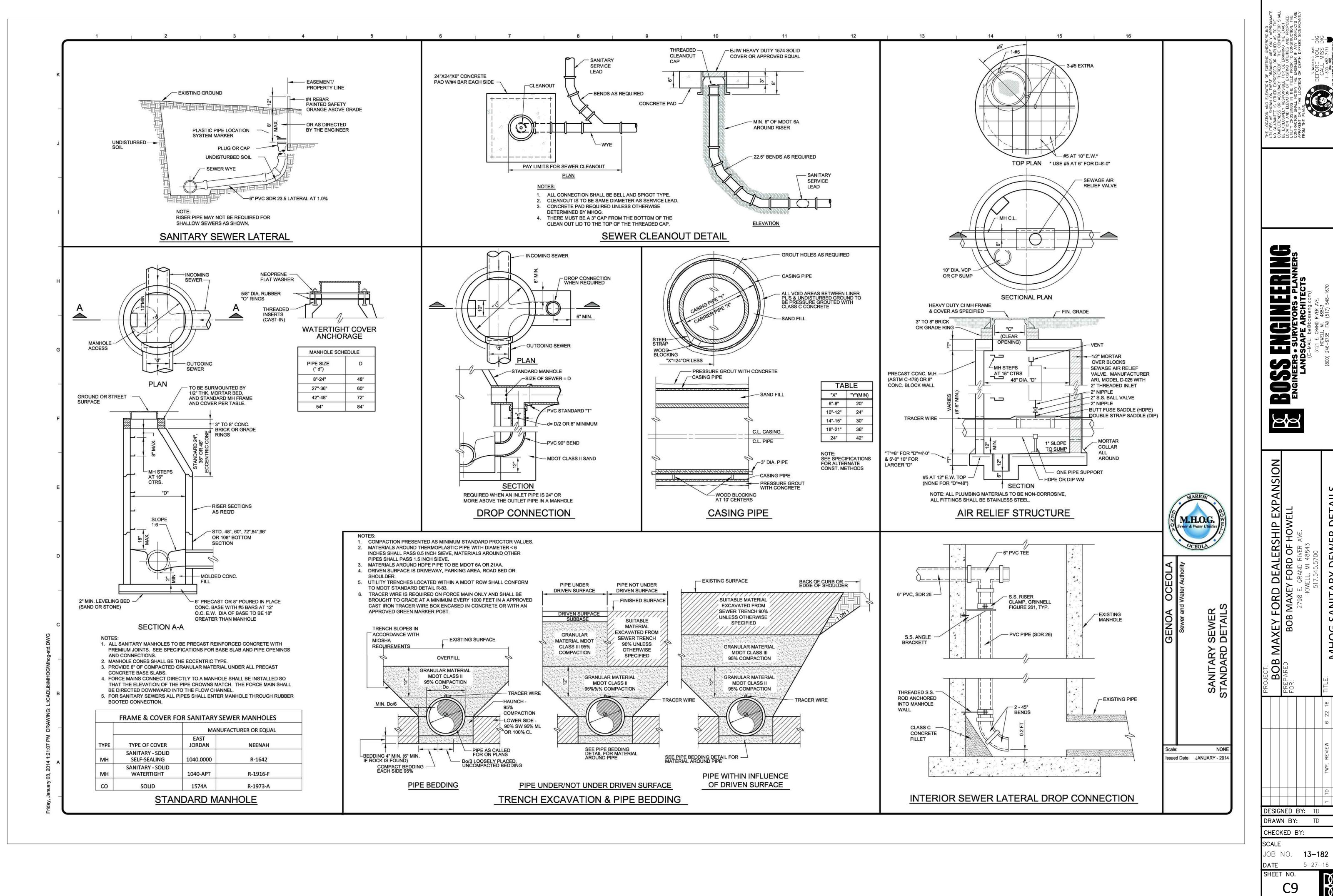
#58883E84





ORS - I

DESIGNED BY: TD DRAWN BY: CHECKED BY: SCALE JOB NO. **13-182** 



**DETAIL** DEWER SANITARY

G:\13-182\dwg\13-182 Base.dwg, 6/22/2016 8:00:17 AM, AutoCAD PDF (General Documentation).pc3



## GENOA CHARTER TOWNSHIP Application for Site Plan Review2016

RECEIVED

#### TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

APPLICANT NAME & ADDRESS: Wilson Marine
If applicant is not the owner, a letter of Authorization from Property Owner is needed.
OWNER'S NAME & ADDRESS: Ron Wilson
SITE ADDRESS: 5866 Grand River Ave., Howell, MI 48843 PARCEL #(s): 4711-15-200-015 & 4711-10-400-003
APPLICANT PHONE: (517) 546-3774
OWNER EMAIL: ronwilson@wilsonboats.com
LOCATION AND BRIEF DESCRIPTION OF SITE:  The site is located on the south side of East Grand River, approximately
0.12 miles east of the Dorr Road Intersection. The property consist of two parcels, having a total area of 7.54 acres. The north parcel is within the
general commercial district and the south parcel is within the industrial district. The surrounding adjacent properties are in similar zoning districts.
The subject property has 250 feet of frontage along East Grand River.
BRIEF STATEMENT OF PROPOSED USE:  The proposed use for the buildings is for storage.
THE FOLLOWING BUILDINGS ARE PROPOSED: 9,600 sf - Showroom/Warehouse
11,750 sf - Cold Storage
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.  BY:  5886-E. Grand River Ave., Howell, MI 48843
ADDRESS:

Contact Information - Revie	w Letters and Correspondence shall be fo	rwarded to the following:
1.) Brent LaVanway	of Boss Engineering	at brentl@bosseng.com
Name	Business Affiliation	E-mail Address
II W	FEE EXCEEDANCE AGREEM	ENT
As stated on the site plan revi	ew fee schedule, all site plans are allocate meeting. If additional reviews or meeting	d two (2) consultant reviews and
will be required to pay the ac	tual incurred costs for the additional revie	ws. If applicable, additional review
applicant indicates agreement	concurrent with submittal to the Township and full understanding of this policy.	board. By signing below,
SIGNATURE: Snal	elle J DATE:	<b>5</b> -25-16
PRINT NAME PONAL		
	River Ave., Howell, MI 48843	



July 5, 2016

Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP						
	Planning Director and Assistant Township Manager						
Subject:	Wilson Marine – Site Plan Review #2						
<b>Location:</b>	5866 Grand River Avenue – south side of Grand River, west of Dorr Road						
Zoning:	GCD General Commercial District, TCOD Town Center Overlay District and IND						
	Industrial District						

#### Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 6/27/16) proposing two new buildings for the existing Wilson Marine development located at 5866 Grand River Avenue. We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Zoning Ordinance and provide the following comments for your consideration.

#### A. Summary

- 1. Given the unique nature of this project, additional discussion is warranted as to the review/approval procedure for the full site plan.
- 2. The proposed elevations, including colors and materials, are subject to review and approval by the Township. We request the applicant present a material and color sample board at the upcoming meeting.
- 3. Neither of the proposed buildings meets the applicable architectural/material requirements of the Ordinance. Planning Commission has discretion over materials for the IND, while the Township Board may modify the requirements for the TCOD building.
- 4. While it appears there is sufficient parking, the Planning Commission may wish to request parking calculations/details to ensure full compliance.
- 5. The applicant may wish to combine parcels or the Township may wish to consider requiring a cross-access easement over the multiple parcels that comprise the development.
- 6. The applicant has indicated that they would like to discuss alternative landscaping proposals with the Planning Commission.

#### B. Proposal

The applicant requests site plan review and approval for two new buildings: a 9,600 square foot showroom on the northerly parcel; and an 11,750 square foot storage building on the parcel to the southeast.

The developed site is comprised of four parcels – the northerly parcel fronts Grand River and is within the GCD and TCOD, while the remaining parcels are zoned IND.

Boat sales are listed as special land uses in the GCD/TCOD, while indoor commercial storage (including boat storage) is permitted by right in the IND.

With respect to the former, the Township has determined that a new special land use approval is not required in accordance with Section 19.06 given the nature/size of the existing development in relation to the size of the proposed building.



Aerial view of site and surroundings (looking north)

Since a portion of the project lies within the TCOD, the Planning Commission is to make a recommendation to the Township Board, who then has final approval authority over both the site plan and Impact Assessment.

Given the somewhat unique situation of one building in the TCOD and another that is not, the Township could divvy up review authorities whereby the Board is responsible only for that portion within the TCOD. This procedural aspect may warrant additional discussion.

#### C. Site Plan Review

**1. Dimensional Requirements.** The proposed buildings have been reviewed for conformance with the applicable dimensional standards, as outlined in the tables below:

	Lot Size		Minimum Setbacks (feet)					
District	Lot Area (acres)	Width (feet)	Front Yard	Side Yard	Rear Yard	Parking	Height	Lot Coverage
TCOD	N/A	N/A	0 min. 75 max.	0	25	20 front	20' min.	N/A
Proposal	2.5	250	108 (existing)	65 (E) 104 (W)	64	Existing	19.5' / 1 story	16.5% building 57.6% impervious

The existing showroom room building and front yard parking do not conform to current TCOD standards; however, no changes are proposed that impact these conditions.

District	Lot Size		Minimum Setbacks (feet)				Max.	
	Lot Area (acres)	Width (feet)	Front Yard	Side Yard	Rear Yard	Parking	Max. Height	Lot Coverage
IND	1	150	50	25	40	20 front 10 side/rear	30' / 2 stories	40% building 85% impervious
Proposal	5	335	130	106 (E) 125 (W)	390	N/A	28' /1 story	5.3% building 5.3% impervious

Genoa Township Planning Commission **Wilson Marine** Site Plan Review #2 Page 3

**2. Building Materials and Design.** The proposed elevations, including colors and materials, are subject to review and approval by the Township.

Both buildings are constructed of metal siding with standing seam metal roofs. There is no indication of colors. Neither building complies with the applicable architectural/material standards – Section 9.05 for the TCOD building and Section 12.01 for the IND building.

The Planning Commission has authority to modify the material standards for the IND building, while the Township Board has the ability to modify the architectural requirements of the TCOD based on the standards in Section 9.05.03.

3. Parking. The revised submittal identifies 3 existing parking lots -2 for employees and 1 for patrons. In total, the employee lots contain 47 spaces, while the submittal indicates there are 45 employees.

Details are not provided for the patron lot; however, it appears there is sufficient parking. The Planning Commission may wish to request parking calculations/details to ensure compliance.

- **4. Pedestrian Circulation.** The project includes a new concrete sidewalk along the site's Grand River frontage.
- **5. Vehicular Circulation.** No changes are proposed to existing circulation pattern, although circulation moves across all 4 parcels. The applicant may wish to combine the parcels, or the Township may wish to consider requiring a cross-access easement.
- **6. Landscaping**. The submittal does not identify any existing or proposed landscaping. This information should be included on the plans. If there are deficiencies in existing plantings, the Township may wish to require improvements.

The applicant has noted that they would like to discuss alternative landscaping proposals with the Planning Commission at the upcoming meeting.

- **7. Waste Receptacle and Enclosure.** The submittal identifies an existing waste receptacle in the southeast corner of the middle parcel. A new concrete base pad and wooded enclosure are proposed as part of this project.
- **8. Exterior Lighting.** The project includes 5 new wall mounted LED light fixtures 3 on the showroom building and 2 on the storage building. Fixture details, mounting heights and photometric readings all comply with current standards.
- **9. Impact Assessment.** The submittal includes an Impact Assessment (June 1, 2016). In summary, the Assessment notes that the proposed building addition is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a>.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP Planning Manager



July 6, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Wilson Marine Showroom and Storage Buildings Site Plan Review #2

Dear Ms. Van Marter:

We have received the revised site plan documents for the referenced project from Boss Engineering dated June 27, 2016. The applicant is proposing to construct a 9,600 sft showroom and an 11,750 sft storage building on the site located on the south side of Grand River Avenue between Gray and Dorr Roads. The new buildings are going to be placed in areas that are currently developed and paved as part of the existing complex.

Tetra Tech has reviewed the revised documents and found that the petitioner has addressed the previous comments and acknowledged a meeting with the Township to discuss potential changes in site utility usage.

If you have any questions, please call.

Sincerely,

Gary J. Markstrom, P.E. Unit Vice President

Copy: Brent LaVanway P.E. Boss Engineering

Joseph C. Siwek, P.E.

### **BRIGHTON AREA FIRE AUTHORITY**



615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 28, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Wilson Marine Showroom/Storage Building

5866 E. Grand River Genoa Twp., MI

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on June 27, 2016 and the drawings are dated June 27, 2016. The project is for the proposed construction of a new 11,750 square foot boat storage (S-1) building and a new 9,600 square foot mercantile/storage (M/S-1) showroom to the existing site. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

1. The nearest hydrants are shown; however the water main locations are not indicated on the submittal. Provide the location of the water mains.

IFC 912.2

2. Based upon the design and construction criteria for the new structures, additional fire hydrants shall be added to the site to meet the required fire flow of between 2,750-3,000gpm for each structure. Based upon this flow-rate each structure requires a minimum of <a href="https://drants.be//>hydrants-be-provided-on-the-site">hydrants-be-provided-on-the-site</a>. Spacing shall be on average no more than 425 foot hose-lay distance from the other. Hydrant spacing may begin at the nearest hydrant to the site with the first on site hydrant being no more than 225 feet hose lay from this location.

IFC B 105.1(2)

A. Provide the location of hydrants, size and location of water mains and gate valves on the utility site plan.

(Based upon the results of a meeting with the civil engineer, Mr. Ron Wilson and the contractor the following criteria have been agreed upon to accommodate for the fire flow requirements: Existing hydrant locations, use of on-site pond if needed, Maintenance of secondary accesses and relocation of the storage building to the southern end of the property to be within proper distance of water supply.)

3. The access roads shall be maintained a minimum of 26' wide and provide for inside turning radius of 30' and outside radius of 50'. Access roads to site shall be provided and maintained during construction. Access roads shall be constructed to be capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds. (Surface detail and apparatus drives and radius are reflected on the drawing)

IFC D 103.1 IFC D 102.1 IFC D 103.3



#### **BRIGHTON AREA FIRE AUTHORITY**

June 28, 2016 Page 2 Wilson Marine Showroom/Storage Buildings 5866 E. Grand River Site Plan Review

- 4. Sterling Drive access gate shall be maintained clear and unobstructed as secondary emergency vehicle access at all times. This gate shall be secured with a knox padlock in conjunction with site lock. (Acknowledged and revised on drawing)
- 5. The location of a new Knox Box shall be indicated on future submittals. The Knox box will be located adjacent to the main entrance of the showroom structure. It can be acquired at <a href="https://www.knoxbox.com">www.knoxbox.com</a> (Revised on drawing)

IFC 506.1

6. Provide names, addresses, phone numbers, emails of owner or owner's agent, contractor, architect, on-site project supervisor. (**Provided on drawing**)

Additional comments will be given during the building plan review process (specific to the building plans and occupancy). The applicant is reminded that the fire authority must review the fire protection systems submittals (sprinkler & alarm) prior to permit issuance by the Building Department and that the authority will also review the building plans for life safety requirements in conjunction with the Building Department.

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS Fire Inspector

www.brightonareafire.com

GENOA TOWNSHIP

JUN 2 7 2016

RECEIVED

# IMPACT ASSESSMENT FOR SITE PLAN PETITION "WILSON MARINE" GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

CONTRACTING MANAGEMENT CORP. 3471 BREEZE POINTE COURT LINDEN, MI 48451 (248) 756-3911

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MI 48843 (517) 546-4836

JUNE 1, 2016

16-181 EIA

#### INTRODUCTION

The purpose of this Impact Assessment (IA) report is to show the effect that this proposed development may have on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements for Impact Assessment* guidelines in accordance with Section 18.07 of the published Zoning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared For: CONTRACTING MANAGEMENT CORP. 3471 Breeze Point Court Linden, MI 48451 (248) 756-3911

Prepared By:
BOSS ENGINEERING COMPANY
Civil Engineers, Land Surveyors, Landscape Architects and Planners
3121 E. Grand River
Howell, MI 48843
(517) 546-4836

Boss Engineering has been successfully providing engineering, surveying, planning and landscape architecture services on land development projects since 1969. Since its beginning, Boss Engineering has strived to provide unparalleled professional services with integrity and respect to every client. Today, Boss provides a complete lineup of consulting services for each project, ranging from conceptual design through final construction. The company currently employs a variety of professions including civil engineers, surveyors, landscape architects and sanitarians.

B. Map(s) and written description / analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also include information for areas within 10 feet of the property. An aeriai photograph or drawing may be used to delineate these areas.

The site is located at 5866 East Grand River on the south side of East Grand Rive Avenue, approximately 430 feet west of the East Grand River Ave and Dorr Road intersection within the general commercial district (GC). To the east and west of the site is GC development, including Wonderland Marine, Spirit Auto Repair and Financial Plus Credit Union. Across Grand River to the north (Lake Chemung) is single-family residential. Bordering to the south is the Industrial District (I). The existing site includes a showroom building, a maintenance and repair facility, 2 warehouse storage buildings, an engineered retention basin, open storage racks and several smaller accessory buildings. One proposed building (Additional Showroom Building) will be in the General Commercial District and one will be in the Industrial District (Warehouse Building).

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, solls, wildlife, woodlands, mature trees (eight-inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

The total site area is approximately 26.45 acres and is entirely developed. The entire site is either concrete paved, asphalt paved, surfaced by asphalt millings, or occupied by buildings. Approximately half of the site is served by an engineered retention pond (78,200 cu ft) with embankments consisting of asphalt millings. Portions at the north and south ends of the site drain off-site. The 2 proposed buildings

will drain to the existing retention pond with no change to the drainage areas or configuration. Existing soils consist of Miami-loam of varying percent slopes (generally 2-6%). There is no significant vegetation on site therefore no impact on any existing natural features.

D. Impact on storm water management: Description of measures to control soll erosion and sedlmentation during grading and construction operations and until a permanent ground cover is established. Recommendations for such measures may be obtained from County Soll Conservation Service.

Surface runoff during periods of construction will be controlled by proper methods set forth by the Livingston County Drain Commissioner, including silt fence and inlet protection devices.

At the time of construction, there may be some temporary dust, noise, vibration and smoke, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimize the effects, such as watering if necessary for dust control.

The site plan documents show the proposed locations of all site improvements along with detailed soil erosion control information in compliance with the Livingston County Drain Commissioner's office regulations.

E. Impact on surrounding land use: Description of the types of proposed uses and other man made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

The proposed development of 2 buildings (9,600 sq. ft and 11,750 sq ft) will be on an already completely developed site and internal to the existing complex of existing buildings and storage facilities. Therefore, they will have minimal impact, if any, on surrounding properties. The increase of light, noise, and air pollution will be negligible.

F. Impact on public facilities and services: Description of number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection.

Letters from the appropriate agencles may be provided, as appropriate.

There will be no impact on public facilities due to the proposed development as well as on public schools, police protection, and fire protection. An increase of approximately 2 employees is anticipated.

G. Impact on public utilitles: Description of the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites service with sanitary sewer, calculations for pre- and post development flows shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

No impact will be made on public utilities due to the proposed development as no new services are needed.

H. Storage or handling of any hazardous materials: Description of any hazardous substances expected to be used, stored or disposed of on the site. The Information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

There will be no hazardous materials stored or handled within the proposed buildings. They are intended for additional showroom space and storage only respectively.

I. Impact on traffic and pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan.

There will be no impact on traffic or pedestrians. The additional buildings are intended only as additional enclosed storage and display of existing inventory.

J. A detailed traffic impact study shall be submitted for any site over ten (10) acres in size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets.

The buildings are for additional storage and display only and will not generate 100 additional directional vehicle trips. Therefore, no detailed traffic impact study is necessary.

K. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None at this time.

L. A list of all sources shall be provided.

Genoa Township's Submittal Requirements for Impact Assessment

Genoa Township Zoning Ordinances

Soil Survey of Livingston County, Michigan, U.S.D.A. Soil Conservation Service

National Wetland Inventory Plan, United States Department of the Interior, Fish and Wildlife Service

Trip Generation manual, 6th edition, Institute of Transportation Engineers

#### **APPENDIX**

(SEE PLANS FOR ADDITIONAL REFERENCE INFORMATION)

#### PROPERTY DESCRIPTION:

DESCRIPTION OF PARCEL # 4711-10-400-003 (SHOWROOM BUILDING):

Description of W.M. Acquisition Parcel, as Recorded in Warranty Deed, dated November 4, 1996, and recorded in Liber 1910, Page 439, Livingston County Records:

A part of the Southeast 1/4 of Section 10, Town 2 North, Range 5 East, Michigan, described as follows: Beginning at a point on the Southerly Right of Way line of Grand River Road, North 2 degrees 08 minutes East, 800.00 feet and North 66 degrees 34 minutés West, 579.00 feet from the Southeast corner of said Section 10; running thence N 66 degrees 34 minutes West 100.00 feet along the Southerly Right-of-Way line of Grand River Road; thence South 23 degrees 26 minutes West, 435.60 feet; thence South 66 degrees 34 minutes East, 100.00 feet; thence North 23 degrees 26 minutes East 435.60 feet to the Point of Beginning.

Description of Wilson Marine Corporation Parcel, as recorded in Warranty Deed, dated September 7, 1988, and recorded in

A part of the Southeast 1/4 of Section 10, Town 2 North, Range 5 East, Genoa Township, Livingston County, Michigan, described as follows: Beginning at a point on the Southerly right—of—way line of Grand River Road, North 02 degrees 08 minutes East 800.00 feet and North 66 degrees 34 minutes West 429.00 feet from the Southeast corner of said Section 10; running thence North 66 degrees 34 minutes West 150.00 feet along the Southerly right—of—way line of Grand River Road; thence South 23 degrees 26 minutes West 435.60 feet; thence South 66 degrees 34 minutes East 150.00 feet; thence North 23 degrees 26 minutes East 435.60 feet to the point of beginning.

#### DESCRIPTION OF PARCEL #4711-15-200-015 (WAREHOUSE BUILDING):

PARCEL DESCRIPTION PER WARRANTY DEED, AS RECORDED IN LIBER 5075, PAGE 489, LIVINGSTON COUNTY RECORDS: Part of the Northeast 1/4 of the Northeast 1/4 of Section 15, Town 2 North, Range 5 East, Michigan, described: Beginning at a point on the North line of said Section 15, distant South 89 degrees 54 minutes 29 seconds West 994.50 feet from the Northeast corner of said Section 15; thence South 89 degrees 54 minutes 29 seconds West along the North line of said Section 15, 331.50 feet thence due South 660.00 feet; thence North 89 degrees 54 minutes 29 seconds East 331.50 feet; thence due North 660.00 feet to the point of beginning, subject to the rights of others over the Southerly 33 feet in an access easement driveway and public utilities; along with an easement for access to Dorr Road, described as: Beginning at a point on the East line of said Section 15, distant due South 594.00 feet from the Northeast corner of said Section 15; thence due South along said East line of Section 15, which is also the centerline of Dorr Road right-of-way, 132.00 feet; thence South 89 degrees 54 minutes 29 seconds West 50.00 feet; thence North 45 degrees 05 minutes 31 seconds West 46.67 feet; thence South 89 degrees 54 minutes 29 seconds West 1243.00 feet; thence due North 66.00 feet; thence South 89 degrees 54 minutes 29 seconds East 1243.00 feet; thence North 44 degrees 54 minutes 29 seconds East 46.67 feet; thence North 89 degrees 54 minutes 29 seconds East 50.00 feet to the point of beginning, EXCEPT all mineral and oil and gas rights reserved by grantor, as set forth in Deed Liber 1592, Page 815.

The West 1/2 of the Northwest 1/4 of the Northeast 1/4 of the Northeast 1/4 of Section 15, Town 2 North, Range 5

Part of the Northeast 1/4 of Section 15, T2N-R5E, Genoa Township, Livingston County, Michigan, more particularly described as follows: Commencing at the Northeast Corner of Section 15; thence along the true North line of Section 15, S 89°54′29" W, 994.17 feet (previously recorded as 994.50 feet); thence S 00°01′46" W (recorded as due South), 3.90 feet, to the POINT OF BEGINNING of the Parcel to be described; said point also being the following course from the Northeast Corner of Section 15: along the North line of Section 15 as previously surveyed and monumented, S 89'41'00" W, 994.19 feet; thence S 00°01'46" W, 655.68 feet (recorded as due South, 660.00 feet); thence S 89°54'29" W, 334.44 feet (recorded as 331.50 feet); thence along the West line of the Northwest 1/4 of the Northeast 1/4 of Section 15, as previously surveyed and monumented, N 00'06'01" W, 654.36 feet (recorded as due North 660.00 feet); thence along the North line of Section 15, as previously surveyed and monumented, N 89°41'00" E, 335.92 feet, to the POINT OF BEGINNING, containing 5.04 acres, more or less, and subject to the rights of the public over the existing Sterling Drive. Also subject to any other easements or restrictions of record

Bearings were established from Warranty Deed, as recorded in Liber 5075, Page 489, Livingston County Records.

#### CONSTRUCTION NOTES

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT: DO NOT SCALE THESE DRAWINGS AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

2. A GRADING PERMIT FOR SOIL EROSION-SEDIMENTATION CONTROL SHALL BE OBTAINED FROM THE GOVERNING AGENCY PRIOR TO THE START OF CONSTRUCTION.

3. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANK

4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY, COUNTY, AND STATE OF MICHIGAN PERMITS. 6. EXISTING PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE, ATTRACTIVE CONDITION AS ORIGINALLY DESIGNED AND CONSTRUCTED UNLESS OTHERWISE NOTED.

7. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS.

8. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE

9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF

CONSTRUCTION. 10. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY

11. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT. 12. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKERS AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING

13. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT THE END OF EACH WORK DAY.

14. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION. 15. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND

16. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

17. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES. 18. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR

RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE

19. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS

20. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT

MAY BE REQUIRED BY THE ENGINEER. 21. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.

23. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS

SPECIFIED OR DIRECTED BY THE ENGINEER. 24. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE

GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS. 25. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. NO WORK SHALL BE COMPLETED UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE.

26. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

27. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT. 28. ALL GRADING IN THE PLANS SHALL BE COMPLETED AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE

30. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE

29. NO SEEDING SHALL BE COMPLETED AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.

CONSIDERED INCIDENTAL TO THE CONTRACT. 31. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.

32. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.

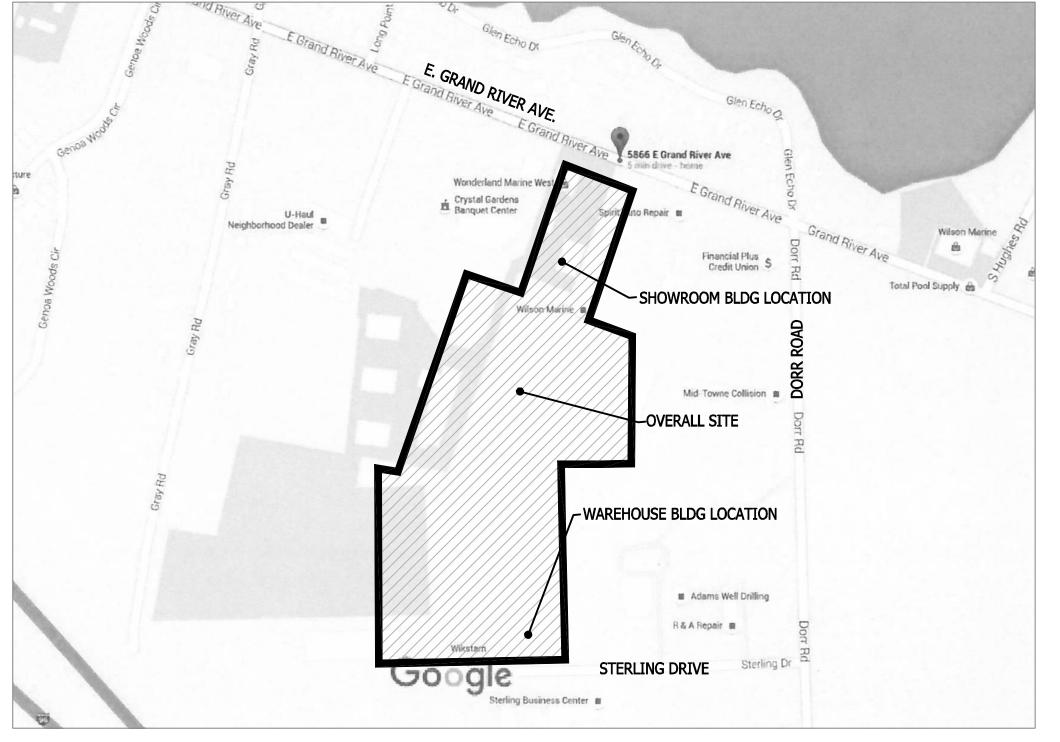
#### INDEMNIFICATION STATEMENT

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

## SITE PLAN SUBMITTAL

## WILSON MARINE

## 5866 EAST GRAND RIVER HOWELL, MICHIGAN 48843 GENOA TOWNSHIP, LIVINGSTON COUNTY





	SHEET INDEX
SHEET NO.	DESCRIPTION
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10	CIVIL DRAWINGS  COVER SHEET OVERALL SITE PLAN EX. COND. & DEMOLITION PLAN - SHOWROOM BLDG EX. COND. & DEMOLITION PLAN - WAREHOUSE BLDG SITE PLAN - SHOWROOM BLDG SITE PLAN - WAREHOUSE BLDG GRADING, DRAINAGE & EROS. CNTRL PLN - SHWRM BLDG GRADING, DRAINAGE & EROS. CNTRL PLN - WAREHSE BLDG LIGHTING PLANS - SHOWROOM AND WAREHOUSE BLDGS CONSTRUCTION & EROS. CNTRL DETAILS
A-01 A-02 B-01 B-02	ARCHITECTURAL DRAWINGS SHOW ROOM FLOOR PLAN SHOWROOM ELEVATIONS STORAGE (BLDG) FLOOR PLAN STORAGE BUILDING ELEVATIONS

**LOCATION MAP** NO SCALE

> OWNER: WILSON MARINE CONTACT: RON WILSON 5866 EAST GRAND RIVER HOWELL, MI 48843

PHONE: 517-546-3774 EMAIL: RONWILSON@WILSONBOATS.COM EMAIL: KEVIN@CMCMICHIGAN.COM

ARCHITECT:

MATTHEW PRINCE ARCHITECT CONTACT: MATT PRINCE 2639 KATHLEEN DRIVE BRIGHTON, MI 48114 PHONE: 305-393-0565

EMAIL: MPRINCE200@GMAIL.COM

PREPARED FOR:

CONTRACTING MANAGEMENT CORP.

CONTACT: KEVIN WETZEL 3471 BREEZE POINTE DRIVE

LINDEN, MI 48451 PHONE: 248-756-3911

PREPARED BY:

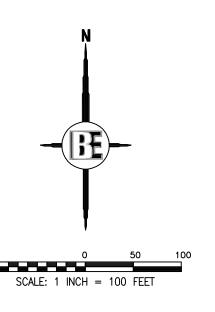


3121 E. GRAND RIVER AVE. HOWELL, MI. 48843 800.246.6735 FAX 517.548.1670

FOR SITE PLAN APPROVAL ONLY!
NOT FOR CONSTRUCTION

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	PC		GENOA TOWNSHIP REVIEW COMMENTS	6/27/16	ISSUE DATE: 6-1-16
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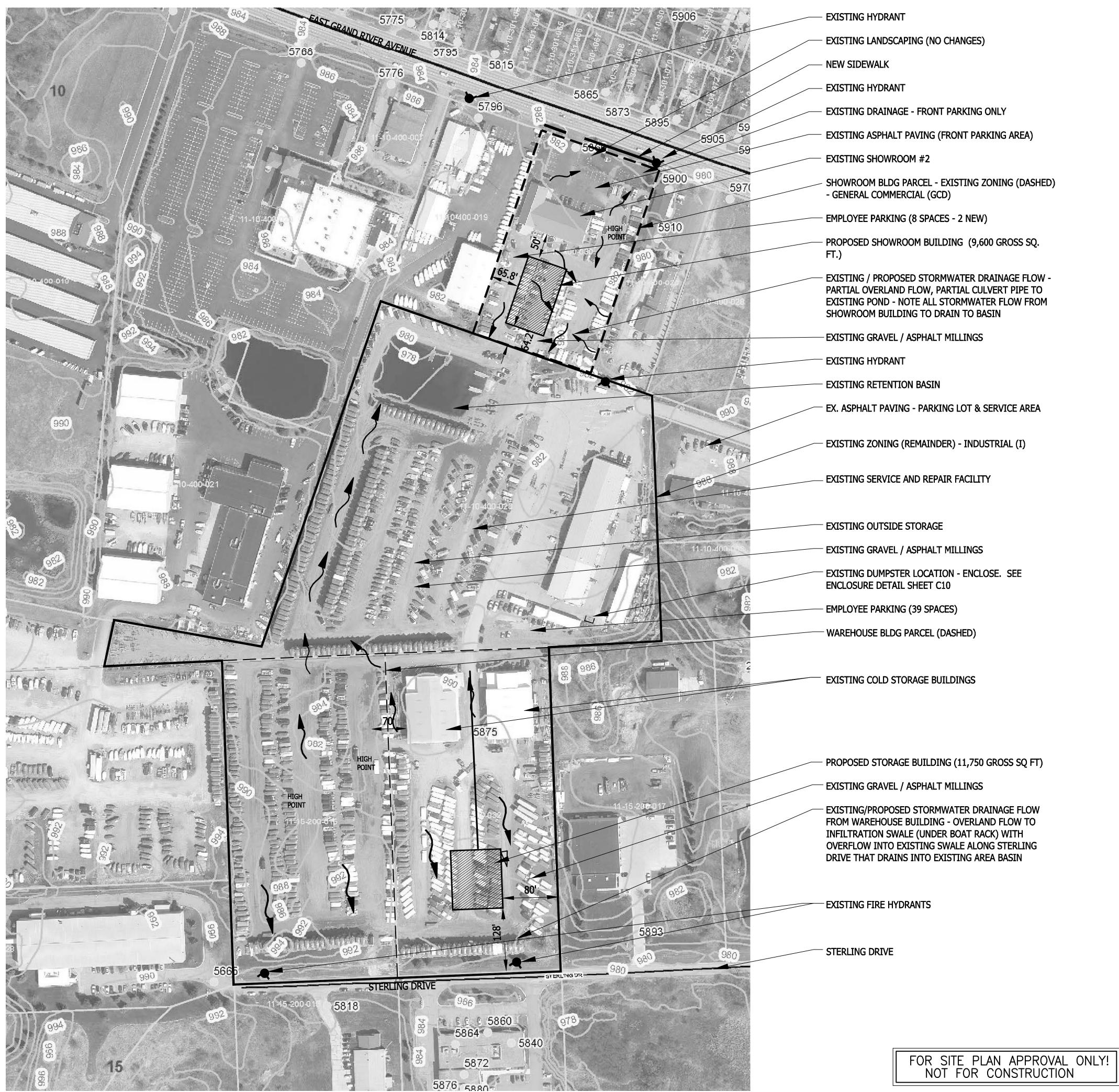
### OVERALL SITE PLAN

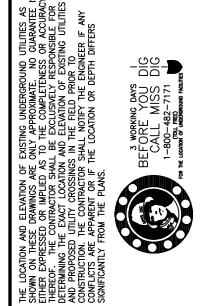


#### **LEGEND**

-900 -- EXISTING CONTOUR STORM INVERT STEEL ROD/PIPE FOUND

LIVINGSTON COUNTY RECORDS POINT OF BEGINNING







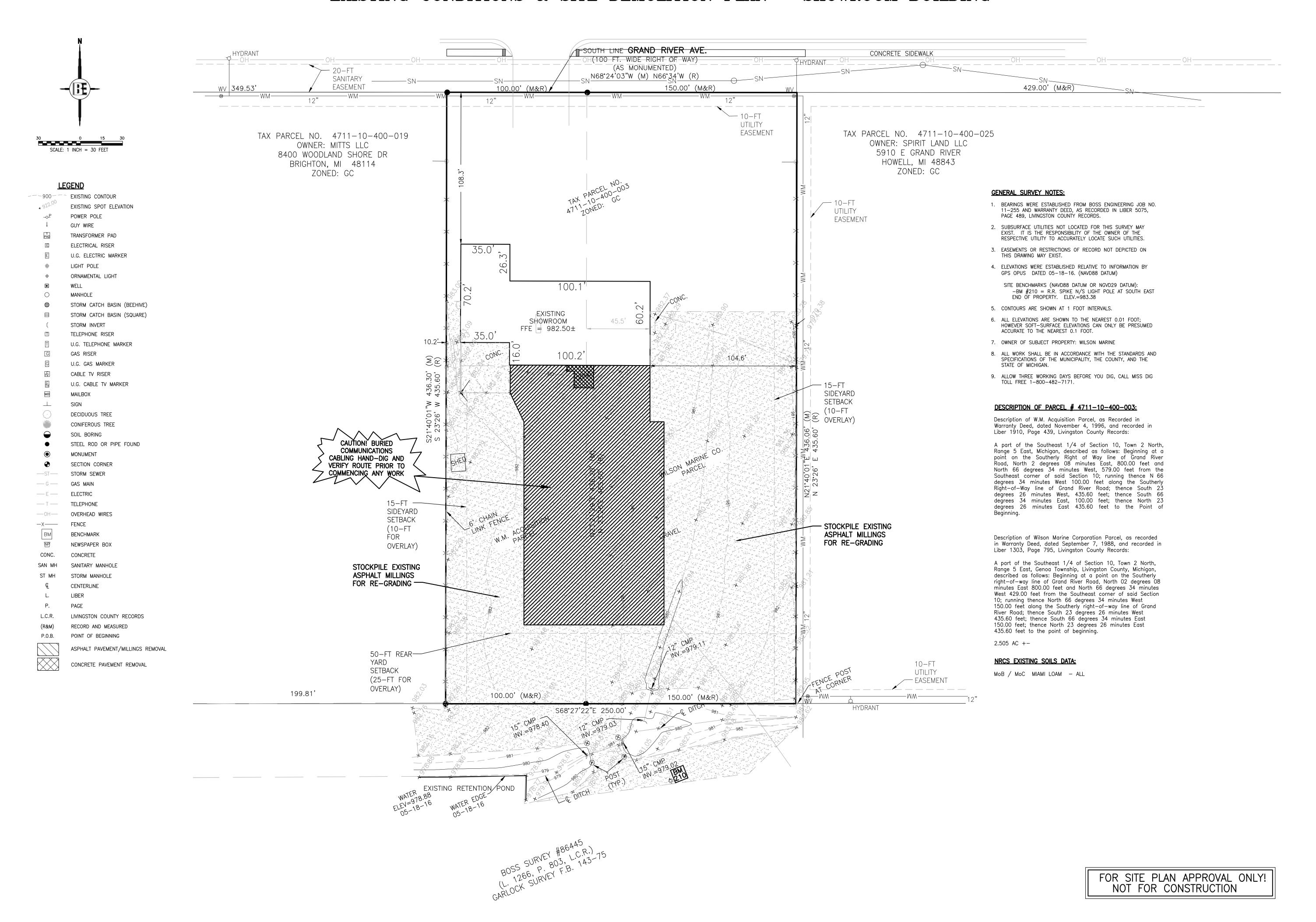
OVERALL

DRAWN BY: PLC

CHECKED BY: 1"=100'-0" JOB NO.

16-181

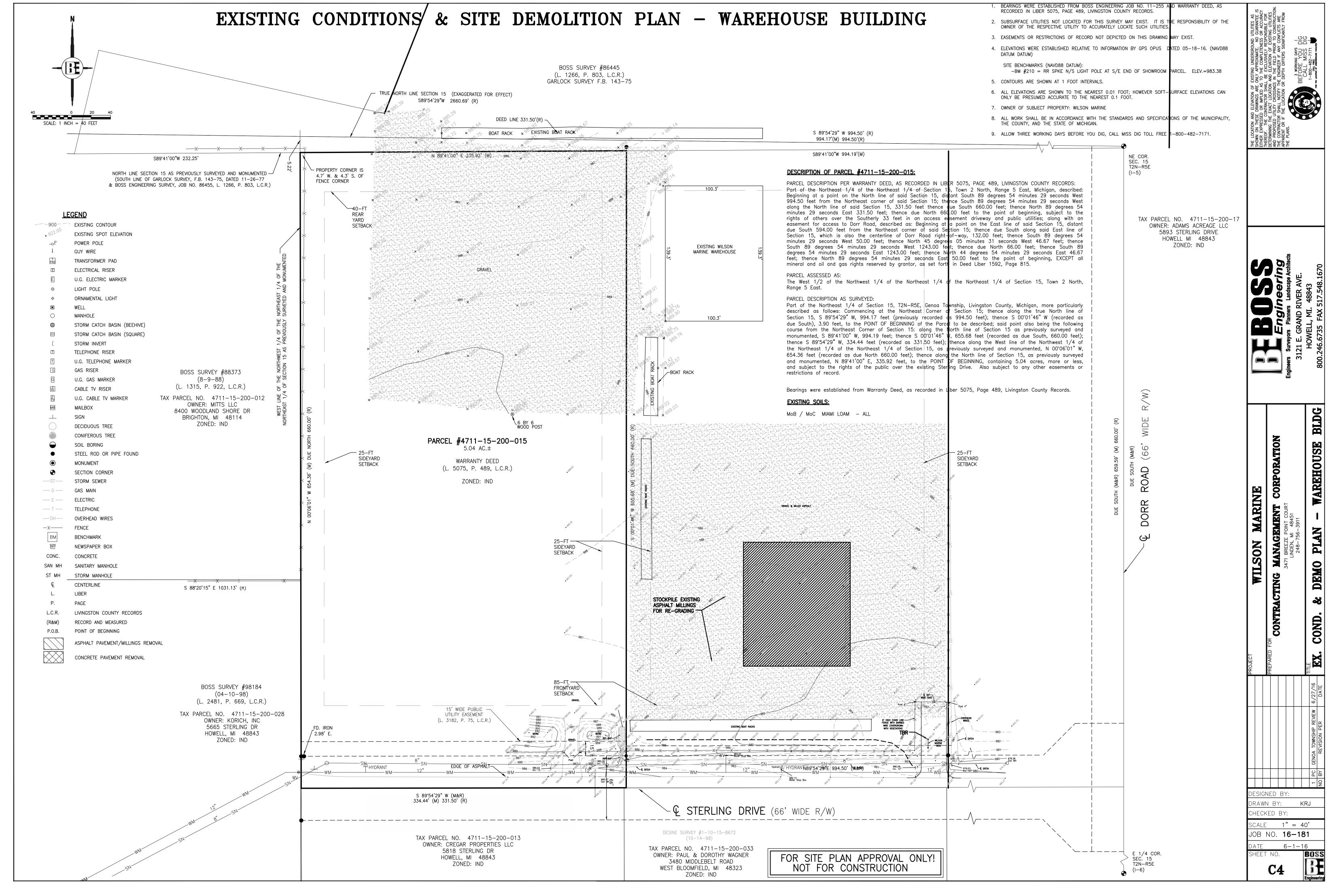
### EXISTING CONDITIONS & SITE DEMOLITION PLAN - SHOWROOM BUILDING

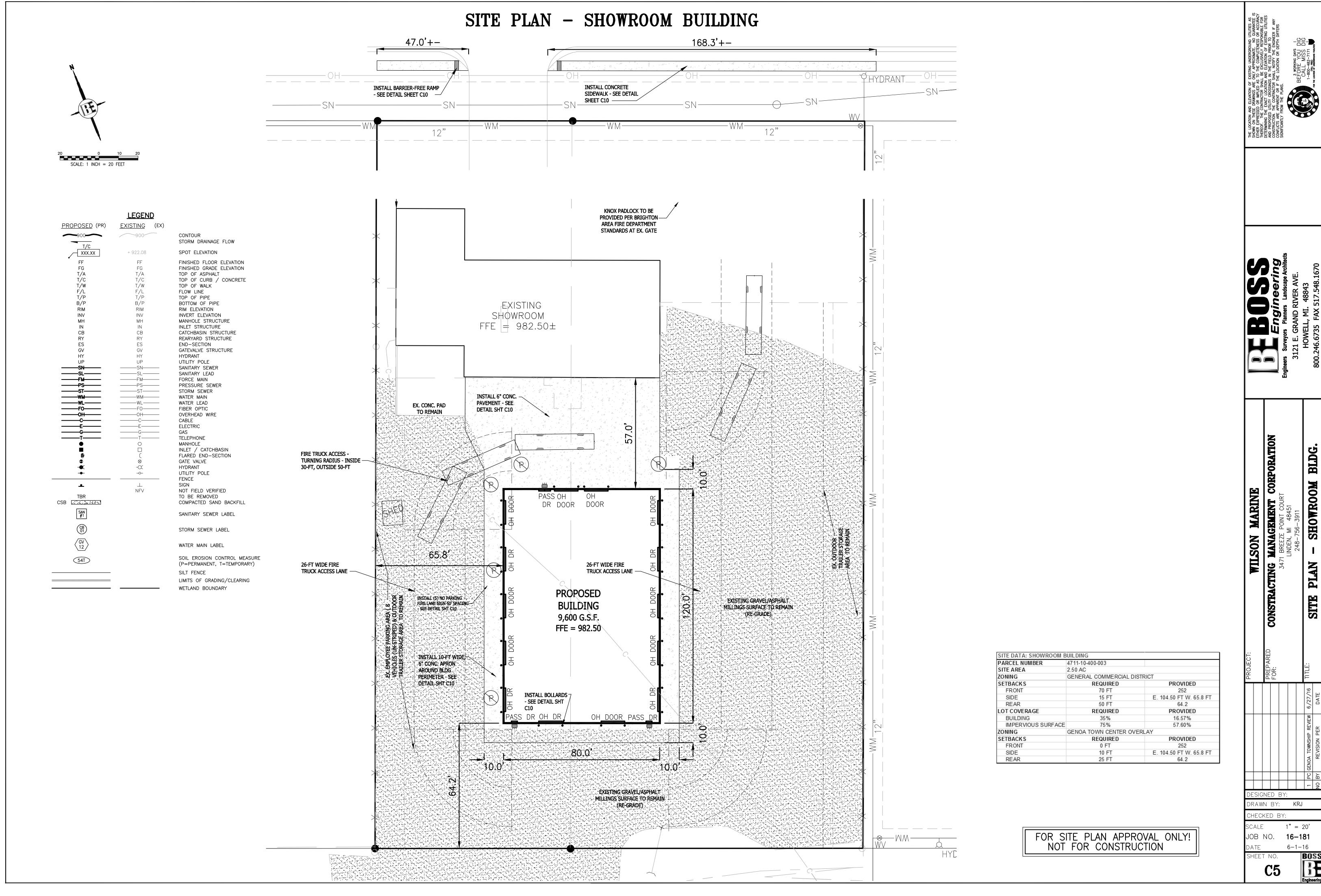


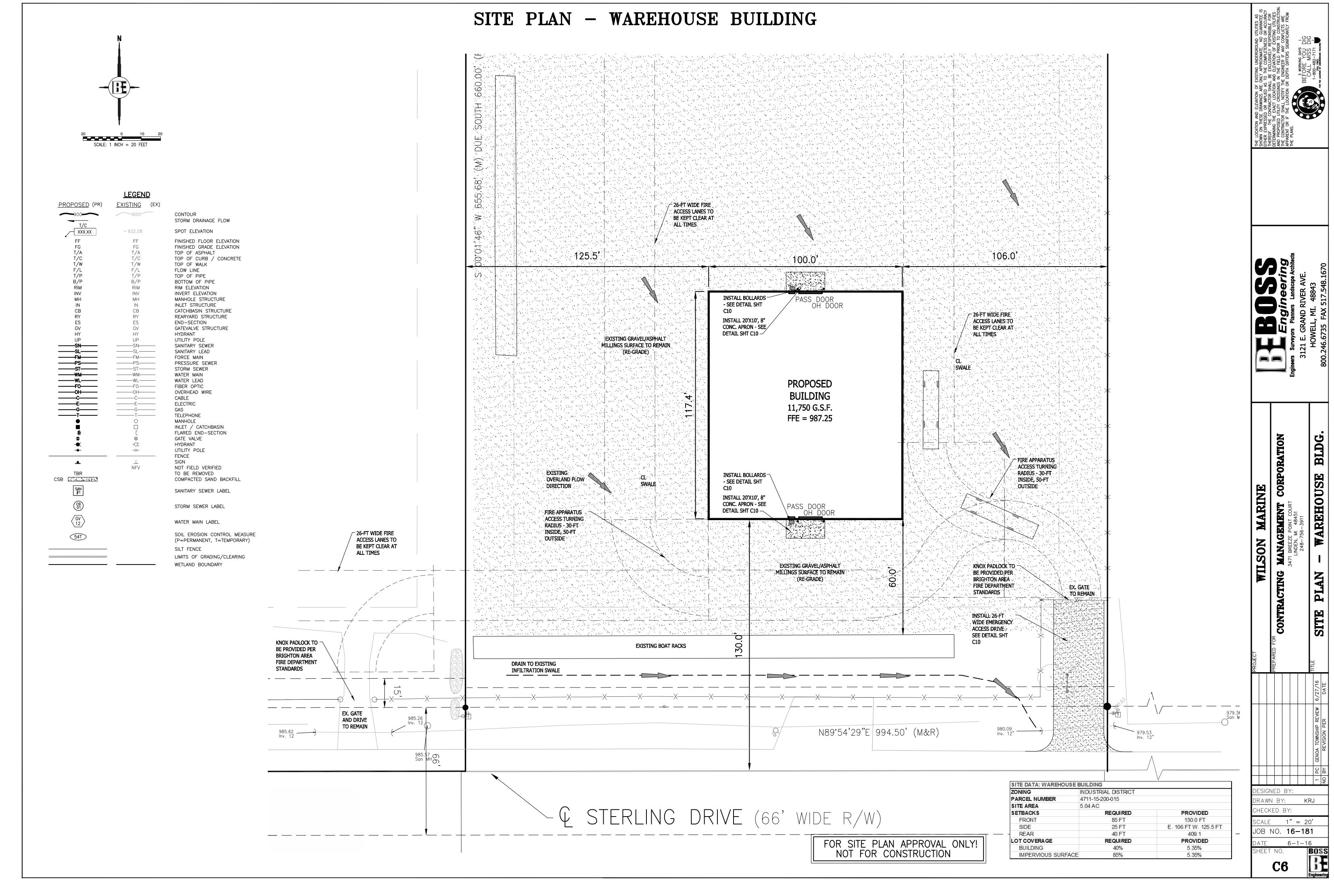
DESIGNED BY: DRAWN BY: KRJ

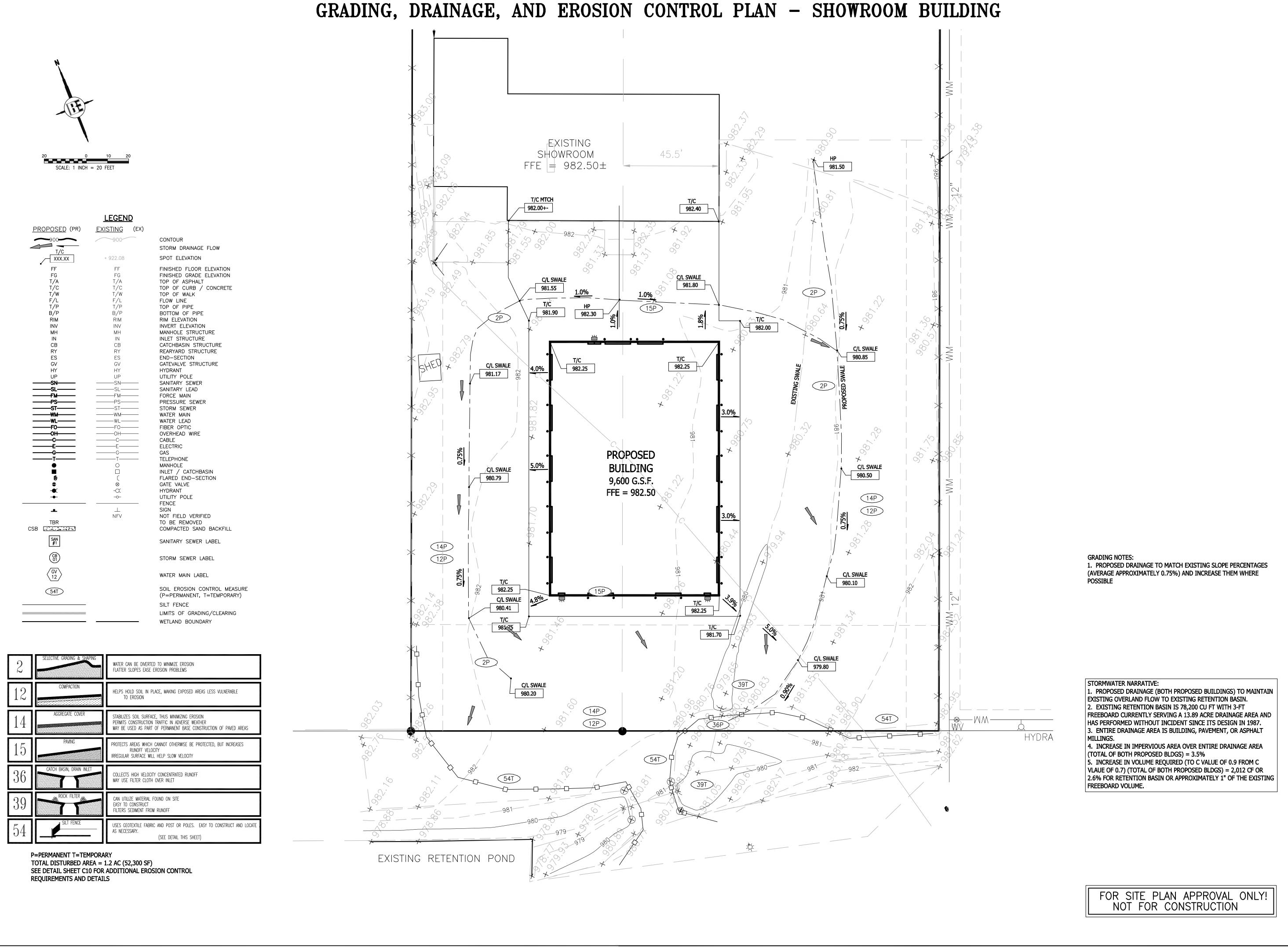
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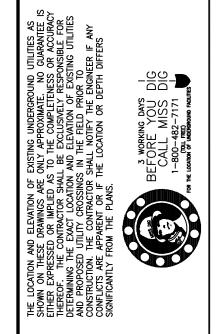
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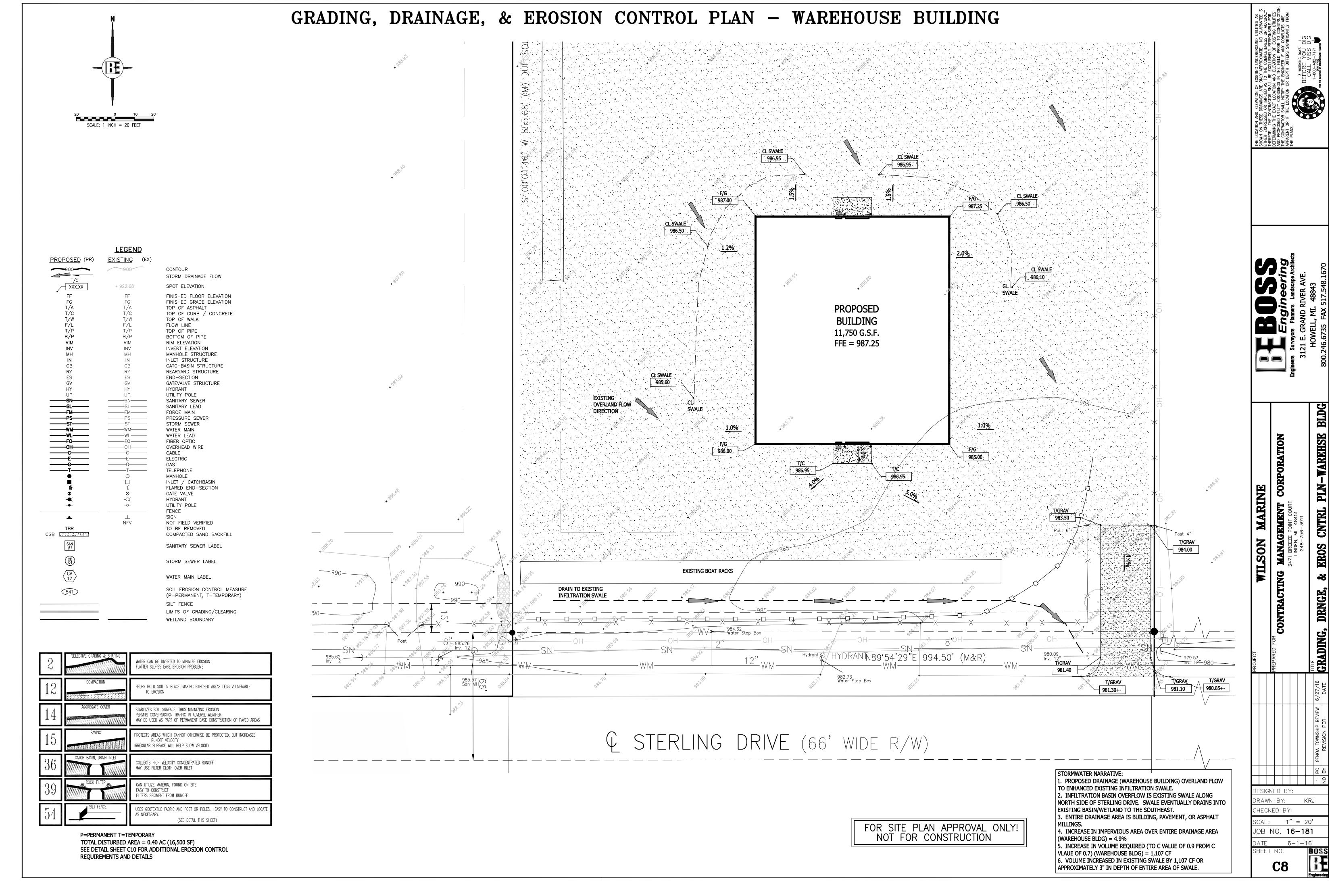


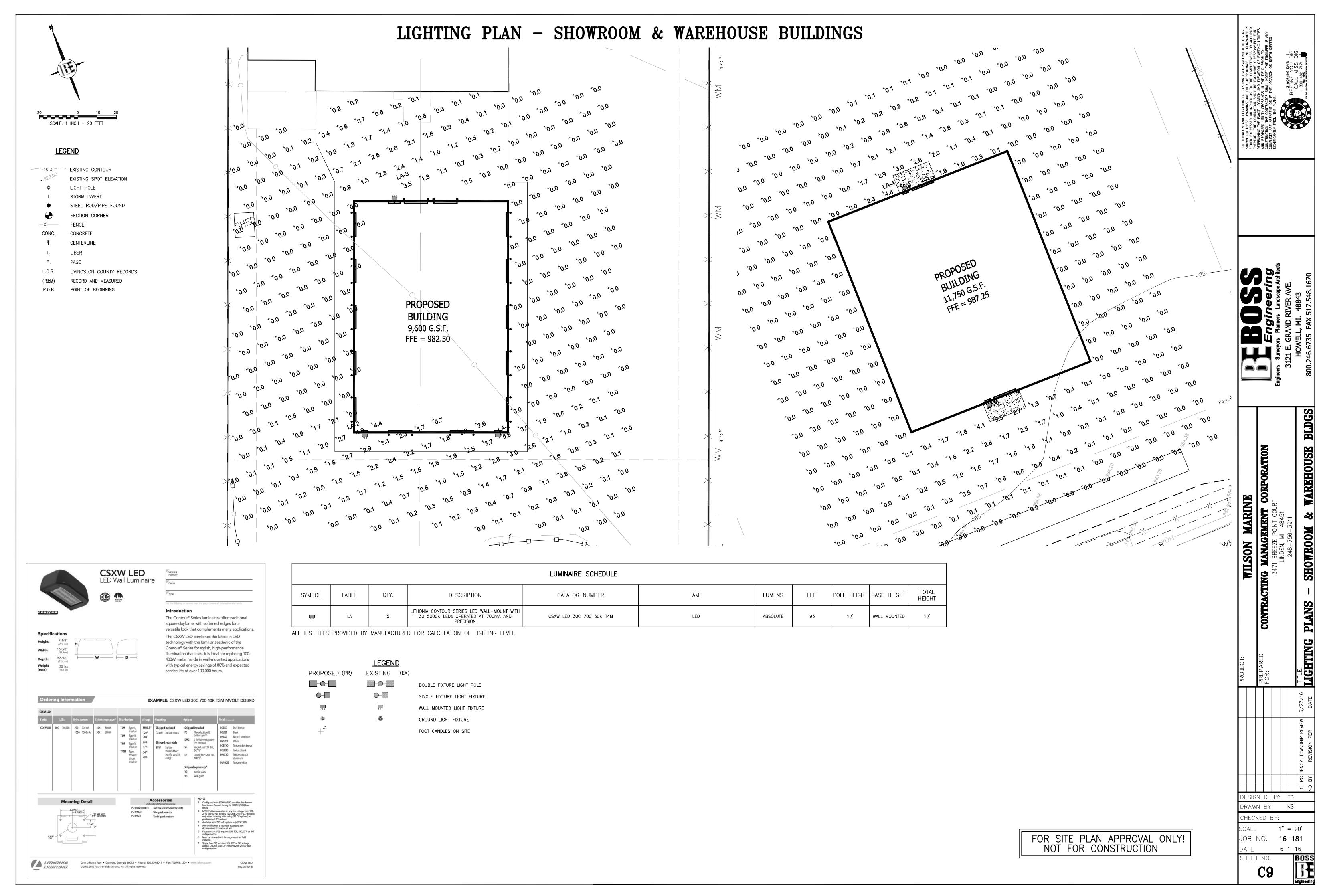
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1" = 20'

16-181

JOB NO.





#### LIVINGSTON COUNTY SOIL EROSION TEMPORARY CONTROLS AND SEQUENCE

- NOTIFY LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE 24 HOURS PRIOR TO START OF GRADE WORK.
- IN ACCORDANCE WITH PUBLIC ACT NO. 53, OF 1974 THE PERMIT HOLDER SHALL CALL MISS DIG FOR STAKING AND LOCATING OF UTILITIES, AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY WORK. PERMITTING STANDARDS
- INGRESS/EGRESS MUST HAVE LARGE CRUSHED ROCK TO REDUCE THE TRACKING OF SOIL ONTO THE PUBLIC TRAFFIC AREAS. SEE DETAIL ITEMS
- 36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS SHALL BE PLACED AND MAINTAINED ALONG PERIMETER ON ALL LOW LYING AREAS OF THE CONSTRUCTION SITE TO FILTER RUNOFF BEFORE LEAVING
- ALL TEMPORARY EROSION CONTROL DEVICES AS NOTED ON PLANS SHALL BE INSTALLED PRIOR TO THE START OF MASSIVE EARTH DISTRIBUTION.
- PLAN DOES DENOTE A DETAILED EROSION CONTROL DEVICE TO RESTRICT TRACKING OF MATERIAL ONTO THE HIGHWAY. STONE DIAPERS SHALL BE INSTALLED AT ALL INGRESS/EGRESS AREAS OF THE SITE PRIOR TO THE START OF MASSIVE EARTH DISRUPTION. DIAPERS SHALL BE OF CRUSHED STONE AND SHALL HAVE A MINIMUM LENGTH OF 100' LINEAL FEET. RETENTION PONDS
- RETENTION/DETENTION/SEDIMENTATION PONDS SHALL BE EXCAVATED TOPSOILED, SEEDED, MULCHED AND TACKED PRIOR TO THE START OF MASSIVE EARTH DISRUPTION.
- DETENTION POND OUTLETS SHALL BE OF THE STANDPIPE AND STONE FILTER SYSTEM, WITH TRASH SCREEN. OUTLET FLOW SHALL NOT EXCEED 0.20 CUBIC FEET OF WATER PER SECOND/PER ACRE. POND DIKES SHALL HAVE A MINIMUM OF ONE (1) FOOT OF FREEBOARD. AN EMERGENCY SPILLWAY SHALL
- BE CONSTRUCTED WITHIN THE FREEBOARD LEVEL. THE EMERGENCY SPILLWAY FROM THE DETENTION POND SHALL BE SODDED AND PEGGED, OR RIP RAPPED, 15 FEET PAST THE TOE OF THE SLOPE OF THE BERM.
- 10. DIKES AND BERMS SHALL BE FREE OF ALL ORGANIC MATTER.
- 11. RETENTION/DETENTION PONDS SHALL BE FENCED WITH A 4' CHAIN LINK FENCE. INCLUDING A 12' ACCESS GATE FOR MAINTENANCE UNLESS. MINIMUM 5 FT. HORIZONTAL TO 1 FT. VERTICAL SIDE SLOPES ARE PROVIDED. THE FENCE SHALL BE INSTALLED AT THE OUTER PORTION OF THE BERM, TO ALLOW FOR MAINTENANCE WORK TO BE DONE INSIDE THE FENCE.
- 12. ALL UNIMPROVED DISTURBED AREAS SHALL BE STRIPPED OF TOPSOIL WHICH WILL BE STORED ONSITE DURING THE EXCAVATING STAGE. TOPSOIL PILES SHALL BE SEEDED AND MULCHED, OR MATTED WITH STRAW IN THE NON-GROWING SEASON, IMMEDIATELY AFTER THE STRIPPING PROCESS IS COMPLETED, TO PREVENT WIND AND WATER EROSION.
- 13. SOIL EROSION CONTROLS SHALL BE MONITORED DAILY BY THE ON-SITE ENGINEER, OR CONTRACTOR, WHICHEVER CASE APPLIES. SLOPES AND DITCHES
- 14. ON SITE DITCHES SHALL BE OF THE FLAT BOTTOM TYPE MINIMUM WIDTH OF 2' WITH A MINIMUM OF 3 HORIZONTAL TO 1 VERTICAL SIDE SLOPES, 3:1.
- DITCHES WITH STEEP SLOPES WILL NEED FLOW CHECKS TO PREVENT SCOURING OF THE DITCH BOTTOM. THESE SHALL BE INSTALLED AS DIRECTED. BY THE ENGINEER OR INSPECTOR.
- 16. SLOPES IN EXCESS OF 3 HORIZONTAL TO 1 VERTICAL SHALL NOT BE USED EXCEPT WITH A MECHANICAL DEVICE SUCH AS A RETAINING WALL, TERRACING, OR OTHER PRIOR APPROVED DEVICE. STORM DRAINS
- 17. ALL STORM WATER STRUCTURES, CATCH BASINS AND/OR MANHOLES, IF BLOCK, SHALL BE PLASTERED ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURES. GROUTING AND POINTING WILL BE NECESSARY AT THE CASTING AND STRUCTURE JOINT TO PREVENT LEAKAGE AND THE RESULTING SOIL MOVEMENT, AROUND THE STRUCTURE.
- STORM WATER INLETS SHALL HAVE AS A TEMPORARY CONTROL A STRAW BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING CONSTRUCTION. AS AN ALTERNATIVE TO THE STRAW BALE BARRIER, A BURLAP AND PEA STONE FILTER MAY BE USED. THREE LAYERS OF BURLAP FIBER AND A FILTER OF PEA STONE MINIMUM 1 FT. IN DEPTH CAN BE USED. DUE TO THE POROSITY OF THE BURLAP FILTER THE MINIMUM OF 1 FT. OF STONE IS VERY IMPORTANT. THE CONTROL SHALL BE INSTALLED AS SOON AS THE
- STRUCTURE IS BUILT AND INSPECTED DAILY. 19. BURLAP AND PEA STONE FILTERS WILL NEED TO BE CHANGED AFTER EACH
- RAINFALL. 20. COUNTY CODE REQUIRES A MINIMUM PIPE SIZE OF 12" IN DIAMETER. IF SMALLER PIPE IS NEEDED FOR OUTLET PURPOSES THE 12" CAN BE BAFFLED
- TO THE CORRECT SIZE. ALL PIPE SHALL MEET THE 12" DIAMETER CODE SIZE. 21. ALL STORM DRAIN OUTLETS 15" IN DIAMETER OR LARGER SHALL HAVE ANIMAL GUARDS INSTALLED TO PREVENT ENTRANCE TO THE SYSTEM.
- ALL STORM DRAINAGE PIPE 30" IN DIAMETER OR LARGER SHALL BE POINTED, AT THE JOINTS ON THE INSIDE WITH MORTAR, AFTER BACKFILLING.
- ALL STORM DRAIN OUTLETS THAT DO NOT EMPTY INTO THE RETENTION / DETENTION POND SHALL HAVE A TEMPORARY 5'X10'X3' SUMP NSTALLED AT THE TERMINATION OF THE STORM SEWER. UPON COMPLETION OF THE STABILIZATION WORK THE SUMP AREA SHALL BE FILLED AND RIP RAPPED WITH COBBLE STONE. SILT TRAPS SHALL BE INSPECTED AFTER EACH STORM.
- 24. STORM WATER OUTLETS DO DENOTE RIP RAP. ALL OUTLETS SHALL BE RIP RAPPED OVER KEYED FILTER FABRIC WITH A MINIMUM OF 15 SQ.
- YARDS OF 6" OR LARGER COBBLE STONE. RIP RAP AS NOTED ON THE PLAN SHALL BE OF A FUNNEL SHAPE CONSTRUCTION, WIDTH SHALL INCREASE AS DISTANCE FROM THE OUTLET POINT INCREASES AT A 3:1 RATIO.
- 26. RIP RAP SHALL BE OF COBBLE STONE, 6" IN DIAMETER OR LARGER. GROUTING MAY BE NECESSARY, AND SHALL BE A MINIMUM OF 6" IN DEPTH WITH THE COBBLE SET IN THE CEMENT SLURRY.
- INSTALL SPLASH BLOCK ON STORMWATER OUTLETS IF SLOPE OF THE PIPE IS 4% OR GREATER.
- 28. ALL UNIMPROVED DISTURBED AREAS SHALL BE RE-TOP SOILED, WITH A MINIMUM OF 3" OF MATERIAL, SEEDED, MULCHED AND TACKED WITHIN 15 DAYS OF THE COMPLETION OF THE MASSIVE EARTH DISRUPTION. IN THE NON-GROWING SEASON STRAW MATTING WILL SUFFICE. HYDROSEEDING WILL BE AN ACCEPTABLE ALTERNATE FOR MULCHING. EXTREME CARE SHOULD BE EXERCISED IN SPRING AND FALL PERIODS AS A FROST WILL BREAK THE BIND OF THE HYDROSEEDING, WHICH WILL AFFECT THE EFFECTIVENESS OF THIS PROCEDURE
- 29. IN THE NON-GROWING SEASON, TEMPORARY STABILIZATION OF MASSIVELY EXPOSED AREAS FOR WINTER STABILIZATION SHALL BE DONE WITH STRAW
- 30. PERMIT FEES DURING THE WINTER PERIOD OF NON-CONSTRUCTION, (DECEMBER 1 THROUGH MARCH 31), SHALL NOT BE IMPOSED IF THE PERMIT HOLDER TEMPORARILY STABILIZES THE EXPOSED AREAS WITH STRAW MATTING, AND OTHER APPROVED CONTROLS, AND OBTAINS A WINTER STABILIZATION CERTIFICATE FROM THIS OFFICE.
- PERIODIC INSPECTIONS WILL BE MADE THROUGHOUT THE COURSE OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE MANAGERS OF THE PROJECT TO CONTACT THIS OFFICE FOR THE FINAL INSPECTION AT THE END OF THE PROJECT.
- 32. THE ISSUING BUILDING DEPARTMENT SHALL NOT ISSUE THE CERTIFICATE OF OCCUPANCY UNTIL THE FINAL INSPECTION LETTER FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONER'S OFFICE HAS BEEN OBTAINED.
- PER THE LIVINGSTON COUNTY DRAIN COMMISSIONER THE SEEDING, FERTILIZER AND MULCH MINIMUM QUANTITIES SHALL BE AS FOLLOWS: 3' IN DEPTH TOP-SOIL 218 LBS. PER ACRE GRASS SEED 150 LBS. PER ACRE FERTILIZER 3" IN DEPTH 1.5 TO 2 TONS PER ACRE (ALL STRAW MULCH MULCHING MUST HAVE A TIE DOWN, SUCH AS TACKIFIER, NET BINDING, ETC.) HYDRO-SEEDING IS NOT ACCEPTABLE FOR SLOPES HYDRO-SEEDING EXCEEDING 5%, IN SUCH CASES STABILIZATION SHALL BE DONE WITH SEED AND STRAW MULCH WITH A TACKIFIER.

#### MAINTENANCE SCHEDULE FOR SOIL EROSION CONTROLS:

- 1. SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH MAJOR STORM EVENT. MAINTENANCE SHALL INCLUDE REMOVAL OF ACCUMULATED SILT AND REPLACEMENT OF TORN SECTIONS. SILT FENCE SHALL BE REMOVED WHEN ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED.
- TRACKING PAD SHALL BE INSPECTED MONTHLY FOR ACCUMULATED DIRT. TRACKING PAD SHALL BE REPLACED WHEN THE STONES ARE CHOKED WITH DIRT. TRACKING PAD SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FIRST COURSE OF ASPHALT BEING
- 3. DETENTION/RETENTION POND SHALL BE INSPECTED QUARTERLY ON A PERMANENT BASIS. MAINTENANCE SHALL INCLUDE SEDIMENT REMOVAL, EMBANKMENT STABILIZATION AND MAINTAINING THE OUTLET STRUCTURE IN GOOD CONDITION. NO TREES SHALL BE ALLOWED TO GROW ON THE EMBANKMENT.
- 4. CATCH BASINS SHALL BE INSPECTED ANNUALLY FOR ACCUMULATION OF SEDIMENT. ALL SEDIMENT MUST BE REMOVED
- AND DISPOSED OF PROPERLY WHEN THE SUMP IS FULL 5. COMMON AREAS SHALL BE STABILIZED NO LATER THAN 15 DAYS AFTER GRADE WORK, PURSUANT TO RULE 1709 (5).

CONTROLS & MEASURES POST CONSTRUCTION SEQUENCE				
ACTIVITY	WEEKLY	MONTHLY	AS REQUIRED	
MAINTAIN LANDSCAPING, REPLACE MULCH	X	X	X	
CLEAN INLETS		X	X	
COLLECT LITTER	X		X	
SWEEP PARKING LOT		X	X	

CONTROLS &	MEASURES NARRATIVE
ACTIVITY	DESCRIPTION
MAINTAIN LANDSCAPING, REPLACE MULCH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOD, TREES AND SHRUBS.
CLEAN INLETS	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.
COLLECT LITTER	DISPOSE OF WITH INLET DEBRIS.
SWEEP PARKING LOT	REMOVE MUD, DIRT, GREASE AND OIL WITH PERIODIC SWEEPING
DUST CONTROL	SPRINKLE WATER AS NEEDED

\* MAXIMUM LANDING SLOPE IN ANY DIRECTION IS 2.0%. MINIMUM LANDING

\*\* MAXIMUM CROSS SLOPE ON RAMP IS THE SAME AS THAT FOR SIDEWALK (2.0%).

WALKING AREA

1" EXPANSION JOINT

~ GRADE BREAK

-REINFORCEMENT AS IN

ADJACENT CURB & GUTTER

→ \* LANDING

SIDEWALK RAMP TYPE RF

(ROLLED / FLARED SIDES)

SECTION A-A

(8.3% MAXIMUM) SEE NOTES

EXTENDING THE WIDTH OF THE

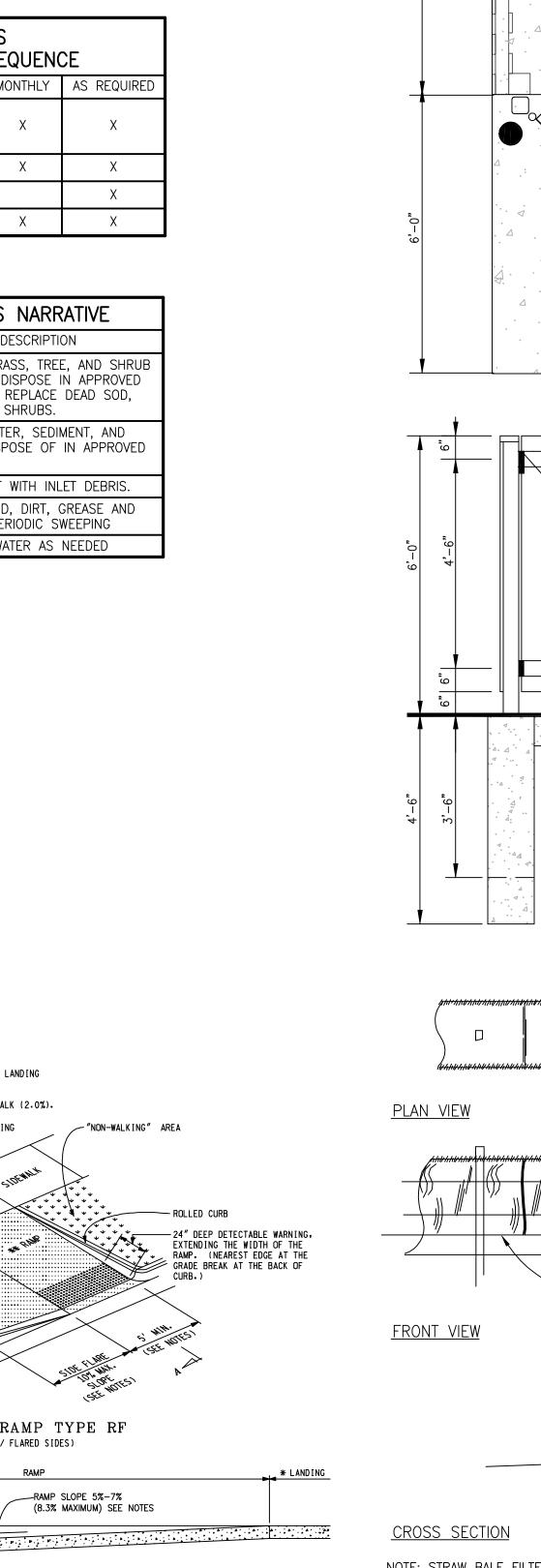
RAMP. (NEAREST EDGE AT THE GRADE BREAK AT THE BACK OF

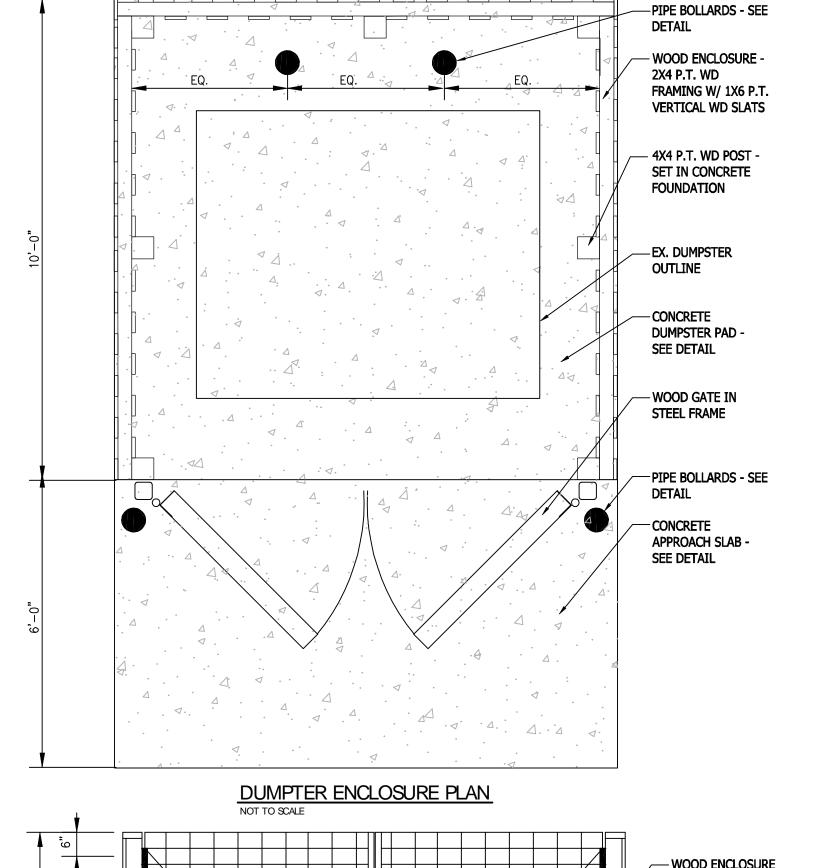
"NON-WALKING" AREA

RUNNING SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES.

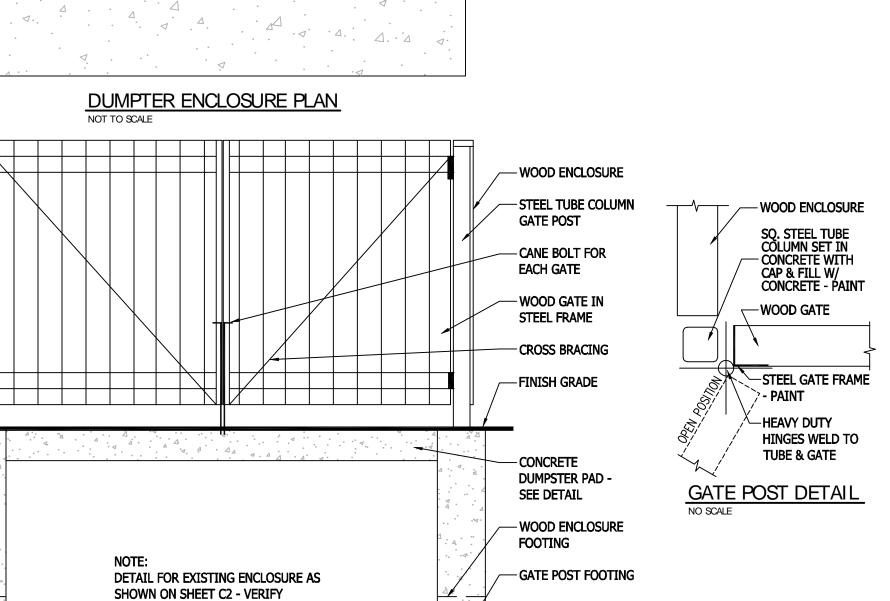
DIMENSIONS 5' x 5'. SEE NOTES

PAVEMENT CURB & GUTTER



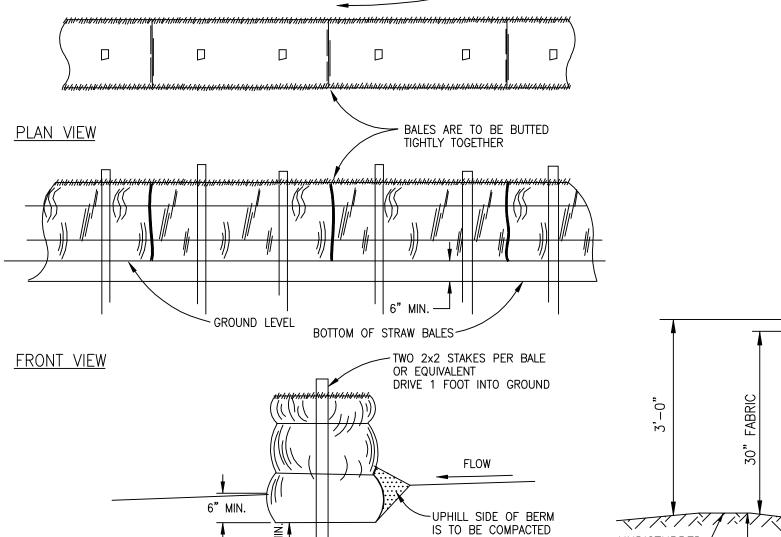


11'-4"



UNDISTURBED /

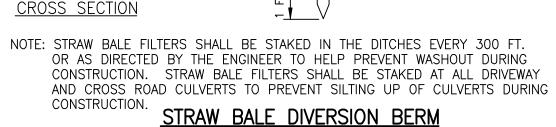
VEGETATION



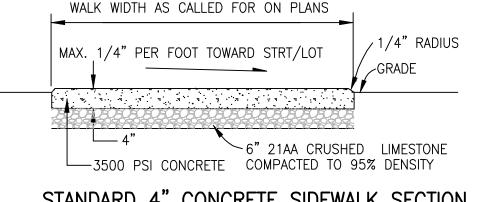
NOT TO SCALE

DIMENSIONS PRIOR TO CONSTRUCTION

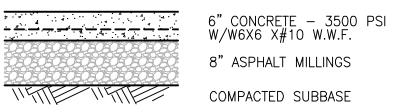
DUMPTER ENCLOSURE FRONT ELEVATION



NO SCALE

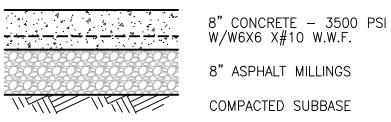


#### STANDARD 4" CONCRETE SIDEWALK SECTION (NOT TO SCALE)

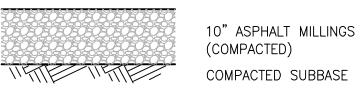


#### CONC. PVMNT. CROSS SECT. - AT SHOWROOM APRONS

(NOT TO SCALE)



#### CONC. PVMNT. CROSS SECT.—AT WAREHOUSE DOOR APRON (NOT TO SCALE)

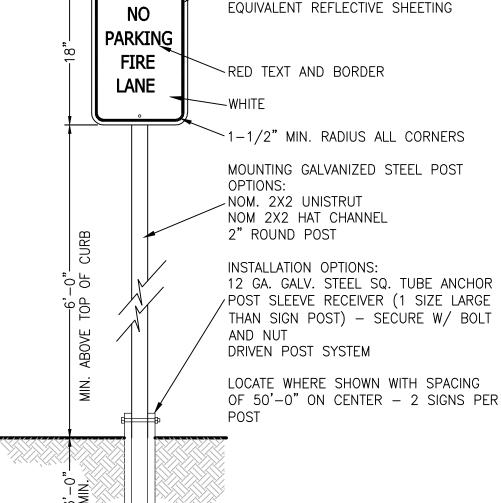


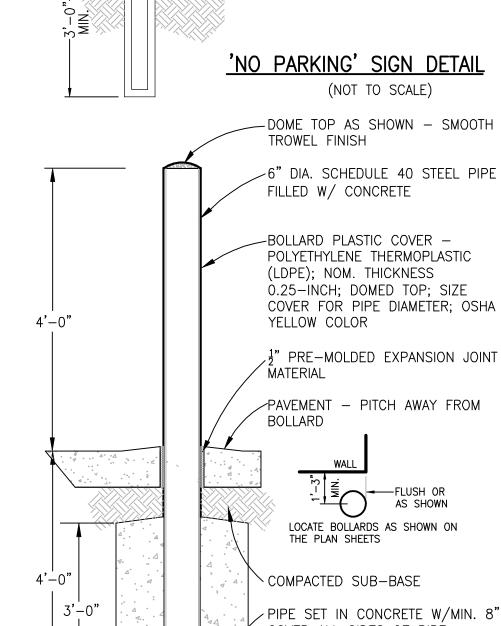
COMPACTED SUBBASE PVMNT. CROSS SECT.—AT EMERGENCY ACCESS DRIVES

(NOT TO SCALE)

SIGN TO BE 0.08" ALUMINUM WITH

ENGINEER GRADE PRISMATIC (EGP) OR





STEEL OR WOOD POST

EARTH ON UPHILL

SIDE OF FILTER

SILT FENCE DETAIL

NO SCALE

WIRE FABRIC TO POSTS

GEOTEXTILE FILTER FABRIC

FASTENED ON UPHILL SIDE

TOWARDS EARTH DISRUPTION

GROUND LINE

-ANCHOR FABRIC SKIRT

AS DIRECTED BY

ENGINEER. TOTAL

WIDTH SHALL BE

PIPE SET IN CONCRETE W/MIN. 8" COVER ALL SIDES OF PIPE ∠MIN. 4", ¾" AGGREGATE BASE PIPE BOLLARD DETAIL

FOR SITE PLAN APPROVAL ONLY! NOT FOR CONSTRUCTION

(NOT TO SCALE)



DETAIL MARINE WILSON ONS ESIGNED BY: PC RAWN BY: HECKED BY:

AS NOTED

6-1-16

BOSS

JOB NO. **16-181** 



## **GENOA CHARTER TOWNSHIP Application for Site Plan Review**

**GENOA TOWNSHIP** 

JUN 0 1 2016

#### TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

VEOC14ED
APPLICANT NAME & ADDRESS: Brighton Nazarene Church
If applicant is not the owner, a letter of Authorization from Property Owner is needed.
OWNER'S NAME & ADDRESS: Brighton Nazarene Church (Pastor Ben Walls)
SITE ADDRESS: 7669 Brighton Rd., Brighton, MI 48116 PARCEL #(s): 4711-25-400-058
APPLICANT PHONE: (810) 227-6600 GOWNER PHONE: (810) 227-6600
OWNER EMAIL: al.herndon@terex.com
LOCATION AND BRIEF DESCRIPTION OF SITE:  The site is located on the north side of Brighton Road, approximately
0.97 miles west of the W. Grand River Ave. intersection. The property has a total area of 10.23 acres. The subject property and surrounding
adjacent properties are located within the suburban residential zoning district.
BRIEF STATEMENT OF PROPOSED USE:  The proposed disturbed area is approximately 0.17 acres located in the
northwest section of the subject site. The use is for a small accessory storage building (40' x 30') for a church van and seasonal
items.
THE FOLLOWING BUILDINGS ARE PROPOSED: 40' x 30' (1,200 sf) storage building
I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.  BY: Paster Bur D-Malls
ADDRESS:

	····	
Contact Information - Revi	ew Letters and Correspondence shall be for	orwarded to the following:
1.) Brent LaVanway	<sub>of</sub> Boss Engineering	at brentl@bosseng.com
Name	Business Affiliation	E-mail Address
	FEE EXCEEDANCE AGREEN	IENT
As stated on the site plan rev	iew fee schedule, all site plans are allocate	ed two (2) consultant reviews and
will be required to pay the ac	n meeting. If additional reviews or meeting tual incurred costs for the additional reviews	ws. If applicable, additional review
	concurrent with submittal to the Townshi t and full understanding of this policy.	p Board. By signing below,
''	• • •	/ //-
SIGNATURE: PASTOS I	Den N. Walls DATE	5/31/16
PRINT NAME: BEN Z	PHONE:	810-227-6600
ADDRESS: 7669 Brighton	Road, Brighton, MI 48116	
ADDRESS: 7669 Brighton	Road, Brighton, MI 48116	



Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP	
	Assistant Township Manager and Planning Director	
Subject:	ct: Brighton Nazarene Church – Site Plan Review #2	
<b>Location:</b>	7669 Brighton Road – northwest corner of Brighton and Aljoann Roads	
Zoning:	SR Suburban Residential	

#### Dear Commissioners:

As requested, we have reviewed the revised site plan submittal (dated 6/22/16) proposing construction of a 1,200 square foot accessory building for the existing Brighton Nazarene Church development at 7669 Brighton Road.

We have reviewed the proposal in accordance with the applicable provisions of the Genoa Township Zoning Ordinance and provide the following comments for your consideration.

#### A. Summary

- 1. From a planning and zoning perspective, we find no issues with the proposal.
- 2. Any issues raised by the Township Engineer or Fire Department must be addressed.

#### B. Proposal/Process

The applicant proposes construction of a 30' x 40' storage building, which requires sketch plan review/approval per Table 18.2. As such, Planning Commission review and approval is required for this project.

The storage building has been reviewed per the requirements for accessory buildings (11.04.01) and dimensional standards for the SR District (3.04).

#### C. Site Plan Review

**1. Dimensional Requirements.** The proposed storage building meets the dimensional requirements as per the table below:

Accessory building setbacks		ilding setbacks		
	Side Yard	Rear Yard	Max. Height	Max. Size
Requirement	20'	50'	14'	1,200 SF
Provided	20'/282'	80'	13' 10 7/8"	1,200 SF

**2. Building Materials and Design.** The proposed storage building will consist of vinyl siding and an asphalt shingle roof. The south side of the building will have an overhead door to allow church van access. The revised elevation drawings note the use of tan siding and brown shingles – both intended to match the existing residence on site.

306 S. Washington Ave. Ste. 400 Royal Oa ... Michigan 48067 248.586.0505 Fax 248.586.0501 www.LSLplanning.com



Aerial view of site and surroundings (looking west)

**3.** Access and Circulation. Access to the storage building will be provided by a 16' wide gravel path from the existing gravel parking lot to the building.

A larger gravel area has been provided in front of the building to improve circulation into and out of the proposed building. Additionally, the plans show an existing gate accessing the gravel path with a Knox Box per Fire Department requirements.

- **4. Landscaping**. Section 12.02.06 states that the Planning Commission may require that accessory structures be screened/landscaped when in a visible location. The proposed building is within a heavily wooded area and should be screened from off-site views.
- **5. Exterior Lighting.** Per the photometric plan, the south side of the building will be fitted with two wall sconce lights at a height of 10°. The plan illustrates 0.1 foot candles at the side property line, which is less than the maximum 0.5 permitted by the Ordinance.
- **6. Impact Assessment.** The Impact Assessment (revised 6/22/16) notes that the project will have minimal impact to natural features, public services/utilities, surrounding land uses and traffic.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at <a href="mailto:borden@lslplanning.com">borden@lslplanning.com</a>.

Respectfully,

LSL PLANNING, A SAFEBUILT LLC COMPANY

Brian V. Borden, AICP Planning Manager



July 6, 2016

Ms. Kelly Van Marter Genoa Township 2911 Dorr Road Brighton, MI 48116

Re: Brighton Nazarene Church Storage Building

Site Plan Review #2

Dear Ms. Van Marter:

We have received the revised site plan documents for the referenced project from Boss Engineering dated June 22, 2016. The applicant is proposing to construct a 1,200 sft storage building in the northwest corner of the site which is located on the north side of Brighton Road just east of Aljoann Road.

Project Engineer

Tetra Tech has reviewed the documents and found all outstanding comments have been addressed.

Please call if you have any questions.

Sincerely,

Gary J. Markstrom, P.E.

Unit Vice President

Copy: Brent LaVanway, P.E., Boss Engineering

## F P D WA

#### **BRIGHTON AREA FIRE AUTHORITY**

615 W. Grand River Ave. Brighton, MI 48116 o: 810-229-6640 f: 810-229-1619

June 29, 2016

Kelly VanMarter Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Brighton Nazarene Church Storage Building

7669 Brighton Rd. Genoa Twp., MI

#### Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on June 27, 2016 and the drawings are dated June 22, 2016. The project is for the addition of a pole barn style garage located at the rear of the property with the intended use of storage of motor vehicles. The plan review is based on the requirements of the International Fire Code (IFC) 2015 edition.

The building shall only be used for the purpose of accessory storage as described. Any alteration or deviation from the storage use shall require approval from the Livingston County Building Department and will require further review and approval.

1. Access drive is proposed to be 10' wide. The minimum width for an emergency access drive shall be 20'. However due to the proposed accessory use, limited occupancy and separation from other structures, the access road to the site shall be permitted to be a minimum of 16' wide to accommodate emergency vehicles safely. Fire lane signage shall be provided at the gate and at least 2 equally spaced along the drive. Include a detail of the fire lane sign in the submittal. Access roads to site shall be provided and maintained during construction and shall be constructed to be capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds. (Noted and revised on drawing)

IFC D 103.6 IFC D 103.1 IFC D 102.1 IFC D 103.3

2. The Knox Box is recommended to be replaced with a knox padlock to be used in conjunction with facility lock. Lock and box can be ordered through <a href="www.knoxbox.com">www.knoxbox.com</a> (Noted and revised on drawing)

IFC 506.1

3. Provide names, addresses, phone numbers, emails of owner or owner's agent, contractor, architect, on-site project supervisor. (**Provided on drawing**)

If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

Capt. Rick Boisvert, CFPS Fire Inspector

## IMPACT ASSESSMENT FOR SITE PLAN PETITION "BRIGHTON NAZARENE CHURCH" GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

BRIGHTON NAZARENE CHURCH 7669 BRIGHTON RD. BRIGHTON, MI 48116 (810) 227-6600

Prepared by:

BOSS ENGINEERING COMPANY 3121 E. GRAND RIVER HOWELL, MI 48843 (517) 546-4836

UNE 1, 2016
REVISED: 06/22/16

16-172 EIA

#### INTRODUCTION

The purpose of this Impact Assessment dareport is to show the effect that this proposed development may have on various factors in the general vicinity of the project. The format used for presentation of this report conforms to the *Submittal Requirements for Impact Assessment* guidelines in accordance with Section 18.07 of the published oning Ordinance for Genoa Township, Livingston County, Michigan.

#### **DISCUSSION ITEMS**

A. Name(s) and address(es) of person(s) responsible for preparation of the impact assessment and a brief statement of their qualifications.

Prepared For:
Brighton Na arene Church
7669 Brighton Rd.
Brighton, MI 48116

Prepared By:
BOSS ENGINEERING COMPANY
Civil Engineers, Land Surveyors, Landscape Architects and Planners
3121 E. Grand River
Howell, MI 48843

517 546-4836

Boss Engineering has been successfully providing engineering, surveying, planning and landscape architecture services on land development proects since 1969. Since its beginning, Boss Engineering has strived to provide unparalleled professional services with integrity and respect to every client. Today, Boss provides a complete lineup of consulting services for each proect, ranging from conceptual design through final construction. The company currently employs a variety of professions including civil engineers, surveyors, landscape architects and sanitarians.

B. Map(s) and written description / analysis of the project site including all existing structures, manmade facilities, and natural features. The analysis shall also include information for areas within 10 feet of the property. An aerial photograph or drawing may be used to delineate these areas.

The site is located on the north side of Brighton Rd, approximately 0.97 miles west of the Grand River Ave intersection. The property has a total area of 10.23 acres. The subject property and surrounding adjacent properties are located within the suburban residential oning district.

C. Impact on natural features: A written description of the environmental characteristics of the site prior to development and following development, i.e., topography, soils, wildlife, woodlands, mature trees (eight inch caliper or greater), wetlands, drainage, lakes, streams, creeks or ponds. Documentation by a qualified wetland specialist shall be required wherever the Township determines that there is a potential regulated wetland. Reduced copies of the Existing Conditions Map(s) or aerial photographs may accompany written material.

The impact on existing natural features will be minimal with a disturbed area for the proposed development of 0.26 acres. A tree survey was performed on site within the area of impact and surrounding areas to locate and identify all trees having a dbh of 8" or above. The existing wooded area is dominated by oa species and also includes elms, locust, maples, and cherries.

The proposed development calls for an accessory structure to store one van and seasonal items for the church. The project will require that seven trees over a dbh of 8" be removed. Natural existing drainage patterns and slopes will not be impacted with minimal grading being proposed.

D. Impact on storm water management: Description of measures to control soil erosion and sedimentation during grading and construction operations and until a permanent ground cover is established. Recommendations for such measures may be obtained from County Soil Conservation Service.

Surface runoff during periods of construction will be controlled by proper methods set forth by the Livingston County Drain Commissioner, including silt fence and seed and mulch.

At the time of construction, there may be some temporary dust, noise, vibration and smo e, but these conditions will be of relatively short duration and shall be controlled by applying appropriate procedures to minimi the effects, such as watering if necessary for dust control.

The site plan documents show the proposed locations of all site improvements along with detailed soil erosion control information.

E. Impact on surrounding land use: Description of the types of proposed uses and other man made facilities, including any project phasing, and an indication of how the proposed use conforms or conflicts with existing and potential development patterns. A description shall be provided of any increases of light, noise or air pollution which could negatively impact adjacent properties.

There will not be any negative impact on surrounding land use as all surrounding properties are within the same  $\Box$ oning district. The proposed accessory structure is not in a readily visible location with surrounding mature vegetation minimi $\Box$ ng visibility further.

The increase of light will be minimal to ad acent properties with a single wall pac being proposed on the structure and surrounding mature vegetation decreasing the impact further. There will not be an increase in noise or air pollution with the proposed development.

F. Impact on public facilities and services: Description of number of expected residents, employees, visitors, or patrons, and the anticipated impact on public schools, police protection and fire protection.

Letters from the appropriate agencies may be provided, as appropriate.

There will be no impact on public facilities and services due to the proposed development.

G. Impact on public utilities: Description of the method to be used to service the development with water and sanitary sewer facilities, the method to be used to control drainage on the site and from the site, including runoff control during periods of construction. For sites service with sanitary sewer, calculations for pre- and post development flows shall be provided in equivalents to a single family home. Where septic systems are proposed, documentation or permits from the Livingston County Health Department shall be provided.

There will be no impact on public utilities as the proposed structure will not be serviced by sanitary sewer or water. With regards to storm water management, the increase in runoff volume is negligible. Shallow swales are being proposed to direct flow towards existing on-site swales and away from adacent properties. The storm water will follow natural drainage patterns once it is directed to existing swales to Worden La . All calculations can be found within the site plan set.

H. Storage or handling of any hazardous materials: Description of any hazardous substances expected to be used, stored or disposed of on the site. The information shall describe the type of materials, location within the site and method of containment. Documentation of compliance with federal and state requirements, and a Pollution Incident Prevention Plan (PIPP) shall be submitted, as appropriate.

There will be no ha ardous materials used or disposed of on this site, such as gas cans, striping paint, etc.

I. Impact on traffic and pedestrians: A description of the traffic volumes to be generated based on national reference documents, such as the most recent edition of the Institute of Transportation Engineers Trip Generation Manual, other published studies or actual counts of similar uses in Michigan.

There will be no impact on traffic and pedestrians with the proposed development.

J. A detailed traffic impact study shall be submitted for any site over ten (10) acres in size which would be expected to generate 100 directional vehicle trips (i.e. 100 inbound or 100 outbound trips) during the peak hour of traffic of the generator or on the adjacent streets.

A detailed traffic impact study is not necessary as the proposed development will not generate any additional traffic.

K. Special Provisions: General description of any deed restrictions, protective covenants, master deed or association bylaws.

None at this time.

L. A list of all sources shall be provided.

Genoa Township's Submittal Requirements for Impact Assessment

Genoa Township □oning Ordinances

## SITE PLAN / CONSTRUCTION PLANS FOR BRIGHTON NAZARENE CHURCH

7669 BRIGHTON ROAD, BRIGHTON, MI 48116 GENOA TOWNSHIP, LIVINGSTON COUNTY, MI

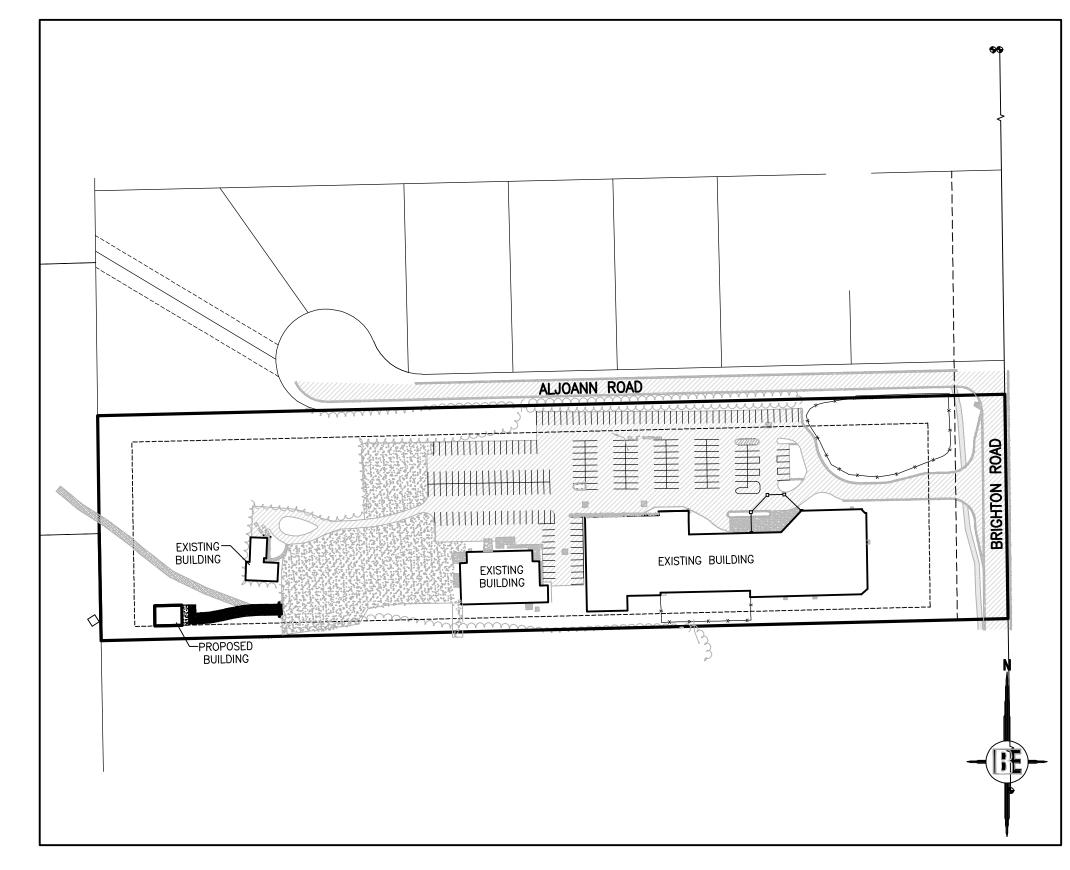
#### PROPERTY DESCRIPTION:

GENERAL INFORMATION: PARCEL NO.: 4711-25-400-058

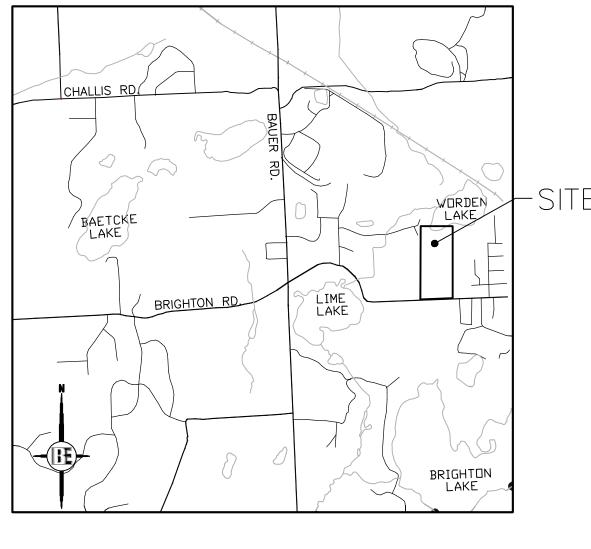
A part of the SE 1/4 of Section 25, T2N-R5E, Genoa Township, Livingston County, Michigan, described as follows: Commencing at the South 1/4 corner of said Section 25; thence N 89°08'15" E along the South line of said Section 663.28 feet to the Point of Beginning of the parcel to be described: thence N 01°24'19" W, 1341.56 feet to the South line of "Mt. Brighton Subdivision No. 2", as recorded in Liber 13 of Plats, Pages 12 and 13, Livingston County Records; thence N 89°03'20" E along said South line 158.13 feet to the Southeast corner of said Plat; thence N 89°13'50" E, 174.61 feet; thence S 01°21'30" E, 1341.53 feet to said South line of said Section 25; thence S 89°08'15" W along said South line 331.64 feet to the Point of Beginning, containing 10.23 acres, more or less and subject to the rights of the public over the existing Brighton Road.

THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS

- CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF
- 11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE
- UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES. 12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.
- 13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING
- PROPERTY PROTECTED FROM DAMAGE. 14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
- 15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT
- 17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY
- 18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.
- 19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE
- 20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS
- 21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.
- 22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.
- 24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS SPECIFIED OR DIRECTED BY THE ENGINEER.
- 25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.
- 26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE
- APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE. 27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.
- 29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR
- 30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.
- 31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED
- INCIDENTAL TO THE CONTRACT.
- 32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.
- 33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 34. ACCESS ROADS TO THE SITE SHALL BE PROVIDED AND MAINTAINED DURING CONSTRUCTION AND SHALL BE CONSTRUCTED TO BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING AT LEAST 75,000 POUNDS.



OVERALL SITE MAP NO SCALE



LOCATION MAP NO SCALE

SHEET INDEX				
SHEET NO.	DESCRIPTION			
C1 C2 C3 C4 C5 C6	COVER SHEET OVERALL DIMENSIONED SITE PLAN EXISTING CONDITIONS & DEMOLITION PLAN SITE PLAN GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN LIGHTING PLAN			
	DRAWINGS PREPARED BY ARCHITECT			
A-111 A-112	FOUNDATION & FLOOR PLANS, DETAILS & SECTIONS ELEVATIONS & FRAMING			

### BRIGHTON NAZARENE CHURCH

#### ARCHITECT:

PMKN DESIGNS 7504 BINGHAM BRIGHTON, MI 48116 CONTACT: PAUL MCGAHAN PHONE: (810) 599-0428 EMAIL: PMCGAHAN@AMERITECH.NET

PREPARED BY:

## 3121 E. GRAND RIVER AVE.

HOWELL, MI. 48843 800.246.6735 FAX 517.548.1670

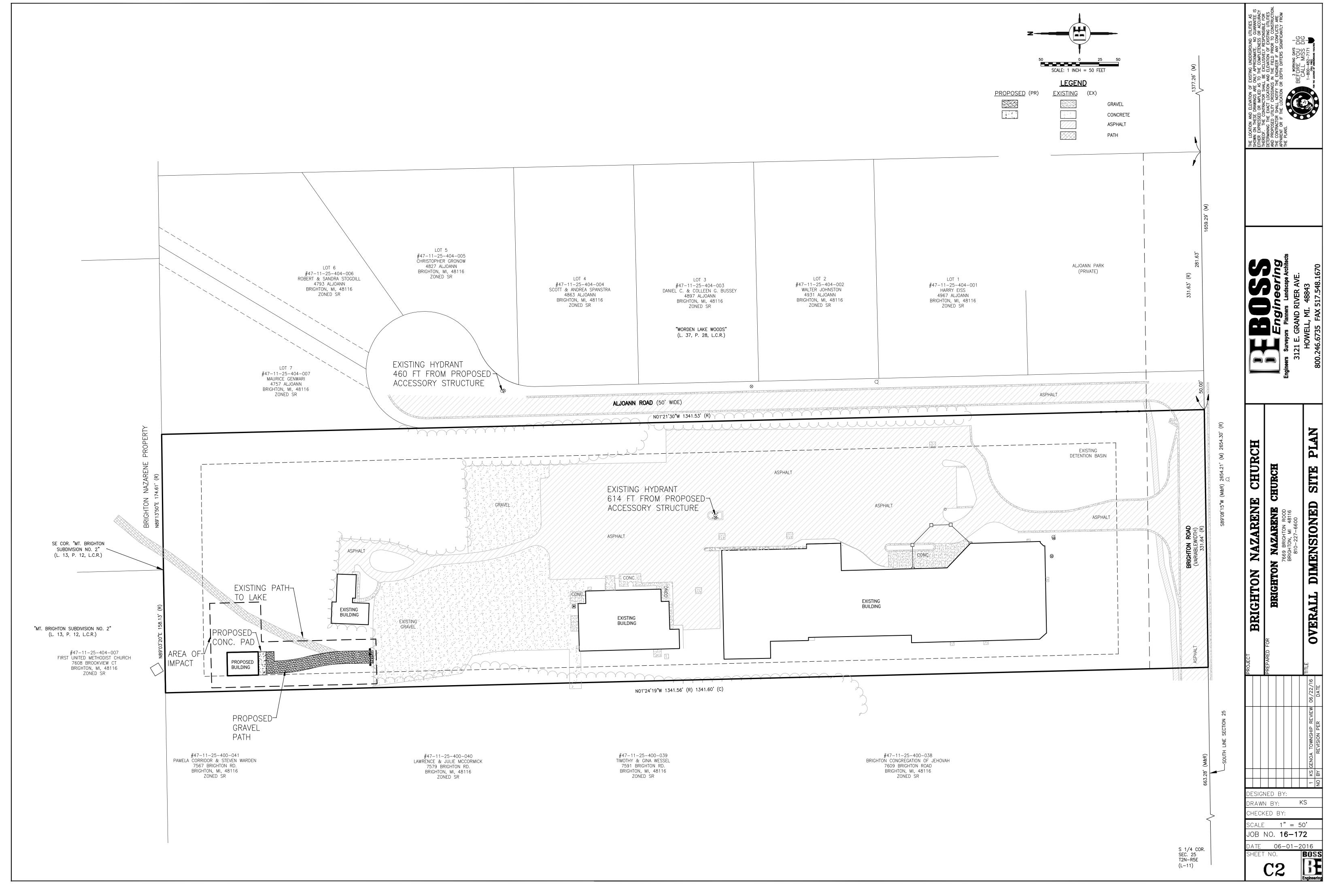
#### PREPARED FOR OWNER:

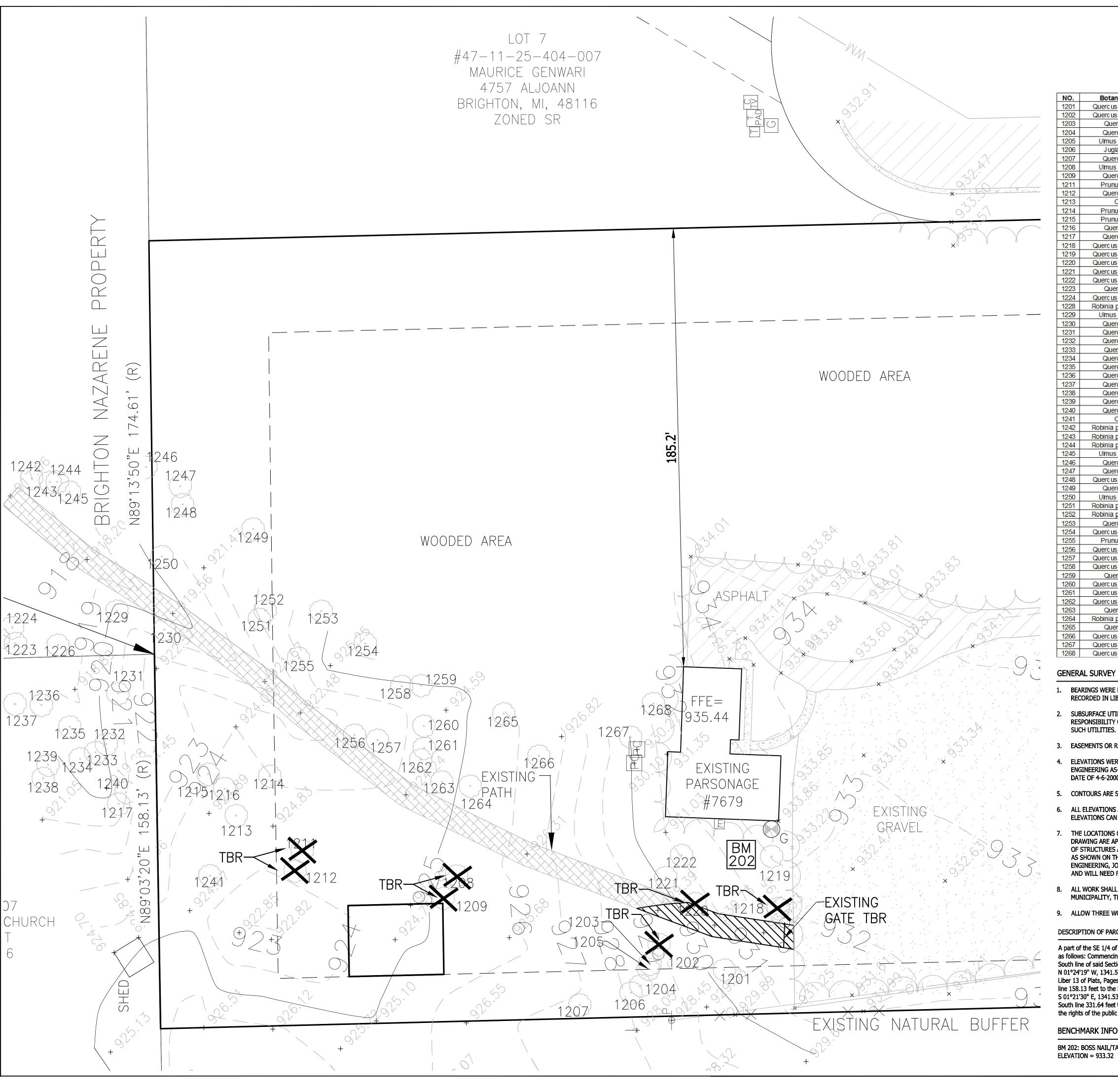
BRIGHTON NAZARENE CHURCH 7669 BRIGHTON ROAD BRIGHTON, MI 48116 CONTACT: PASTOR BEN WALLS PHONE: (810) 227-6600

#### INDEMNIFICATION STATEMENT

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

				C1
KS		GENOA TOWNSHIP REVIEW	06/22/16	ISSUE DATE: 06/01/2016
BY	СК	REVISION	DATE	JOB NO. 16-172







NO.	Botanical Name	Common Name	SIZE	COND
1201	Querc us mac roc arpa	Bur Oak	16	Good
202	Querc us mac roc arpa	Bur Oak	11	Good
203	Quercus alba	White Oak	12	Good
204	Quercus rubra	Northern Red Oak	17 8	Good
205 206	Ulmus americana	American Elm Black Walnut	12	Good Good
207	Juglans nigra Quercus rubra	Northern Red Oak	21	Good
208	Ulmus americana	American Elm	8	Good
209	Quercus rubra	Northern Red Oak	23	Good
211	Prunus serotina	Black Cherry	9	Good
212	Quercus rubra	Northern Red Oak	17	Good
213	Carya	Hickory Sp.	10	Good
214	Prunus serotina	Black Cherry	8	Good
215	Prunus serotina	Black Cherry	8	Good
216	Querc us alba	White Oak	15	Good
217	Querc us rubra	Northern Red Oak	9	Good
218	Querc us mac roc arpa	Bur Oak	22	Good
219	Querc us mac roc arpa	Bur Oak	20	Good
220	Querc us mac roc arpa	Bur Oak	18	Good
221	Querc us mac roc arpa	Bur Oak	19	Good
222	Querc us mac roc arpa	Bur Oak	18	Good
223	Querc us alba	White Oak	24	Good
224	Querc us mac roc arpa	Bur Oak	8	Good
228	Robinia pseudoacacia	Black Locust	8	Good
229	Ulmus americana	American Elm	8	Good
230	Querc us rubra	Northern Red Oak	19	Good
231	Querc us rubra	Northern Red Oak	8	Good
232	Querc us rubra	Northern Red Oak	8	Good
233	Querc us alba	White Oak	9	Good
234	Quercus rubra	Northern Red Oak	9	Good
235	Quercus rubra	Northern Red Oak	14	Good
236	Quercus rubra	Northern Red Oak	8	Good
237	Quercus rubra	Northern Red Oak	12	Good
238 239	Querc us rubra Querc us rubra	Northern Red Oak Northern Red Oak	12 12	Good Good
240	Quercus rubra	Northern Red Oak	10	Good
241	Carya	Hickory Sp.	21	Good
242	Robinia pseudoacacia	Black Locust	8	Good
243	Robinia pseudoacacia	Black Locust	8	Good
244	Robinia pseudoacacia	Black Locust	9	Good
245	Ulmus americana	American Elm	8	Good
246	Quercus rubra	Northern Red Oak	12	Good
247	Querc us rubra	Northern Red Oak	12	Good
248	Querc us mac roc arpa	Bur Oak	13	Good
249	Querc us rubra	Northern Red Oak	9	Good
250	Ulmus americana	American Elm	9	Good
251	Robinia pseudoacacia	Black Locust	8	Good
252	Robinia pseudoacacia	Black Locust	9	Good
253	Querc us rubra	Northern Red Oak	9	Good
254	Querc us mac roc arpa	Bur Oak	26	Good
255	Prunus serotina	Black Cherry	8	Good
256	Querc us mac roc arpa	Bur Oak	20	Good
257	Querc us mac roc arpa	Bur Oak	19	Good
1258	Querc us mac roc arpa	Bur Oak	12	Good
259	Querc us alba	White Oak	21	Good
260	Querc us mac roc arpa	Bur Oak	12	Good
261	Querc us mac roc arpa	Bur Oak	22	Good
262	Querc us mac roc arpa	Bur Oak	24	Good
263	Quercus alba	White Oak	18	Good
1264	Robinia pseudoacacia	Black Locust	8	Good
1265	Quercus alba	White Oak	15	Good
1266	Quercus macrocarpa	Bur Oak	15	Good
1267	Querc us mac roc arpa	Bur Oak	18	Good

#### **GENERAL SURVEY NOTES**

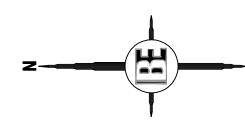
- BEARINGS WERE ESTABLISHED FROM THE PLAT OF "MT. BRIGHTON SUBDIVISION NO. 2", AS RECORDED IN LIBER 13 OF PLATS, PAGE 12, LIVINGSTON COUNTY RECORDS.
- SUBSURFACE UTILITIES NOT LOCATED FOR THIS SURVEY MAY EXIST. IT IS THE RESPONSIBILITY OF THE OWNER OF THE RESPECTIVE UTILITY TO ACCURATELY LOCATE
- 3. EASEMENTS OR RESTRICTIONS OF RECORD NOT DEPICTED ON THIS DRAWING MAY EXIST.
- ELEVATIONS WERE ESTABLISHED FROM BENCHMARK INFORMATION AS SHOWN ON BOSS ENGINEERING AS-BUILT PLANS FOR WORDEN LAKE WOODS UNDER JOB NO. 98011, AS-BUILT DATE OF 4-6-2000. (NGVD29 DATUM)
- 5. CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
- 5. ALL ELEVATIONS ARE SHOWN TO THE NEAREST 0.01 FOOT; HOWEVER SOFT-SURFACE ELEVATIONS CAN ONLY BE PRESUMED ACCURATE TO THE NEAREST 0.1 FOOT.
- THE LOCATIONS OF STORM SEWER, SANITARY SEWER & WATERMAIN, AS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE LOCATIONS ARE BASED ON PHYSICAL FIELD LOCATIONS OF STRUCTURES ALONG WITH RECORD DRAWINGS. SEPTIC TANKS, PUMP CHAMBER & FIELD AS SHOWN ON THIS SURVEY ARE DEPICTED FROM A PREVIOUS SITE PLAN BY BOSS ENGINEERING, JOB NO. 88603, DATED 10-25-89. LOCATIONS AS SHOWN ARE APPROXIMATE AND WILL NEED FIELD VERIFICATION.
- 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY, THE COUNTY, AND THE STATE OF MICHIGAN.
- 9. ALLOW THREE WORKING DAYS BEFORE YOU DIG, CALL MISS DIG TOLL FREE 1-800-482-7171.

#### **DESCRIPTION OF PARCEL #4711-25-400-058:**

A part of the SE 1/4 of Section 25, T2N-R5E, Genoa Township, Livingston County, Michigan, described as follows: Commencing at the South 1/4 corner of said Section 25; thence N 89°08'15" E along the South line of said Section 663.28 feet to the Point of Beginning of the parcel to be described: thence N 01°24'19" W, 1341.56 feet to the South line of "Mt. Brighton Subdivision No. 2", as recorded in Liber 13 of Plats, Pages 12 and 13, Livingston County Records; thence N 89°03'20" E along said South line 158.13 feet to the Southeast corner of said Plat; thence N 89°13'50" E, 174.61 feet; thence S 01°21'30" E, 1341.53 feet to said South line of said Section 25; thence S 89°08'15" W along said South line 331.64 feet to the Point of Beginning, containing 10.23 acres, more or less and subject to the rights of the public over the existing Brighton Road.

#### BENCHMARK INFORMATION

BM 202: BOSS NAIL/TAG SET S/S 20" OAK, 15'± WEST OF SW CORNER OF PARSONAGE. ELEVATION = 933.32



#### <u>LEGEND</u>

---900--- EXISTING CONTOUR

20	
922.00	EXISTING SPOT ELEVATION
_oP	POWER POLE
Ţ	GUY WIRE
Q	HYDRANT
$\otimes$	GATE VALVE
$\bigcirc$	MANHOLE
$\oplus$	STORM CATCH BASIN (BEEHIVE)
	STORM CATCH BASIN (SQUARE)
(	STORM INVERT
•	WELL
T PAD	TRANSFORMER PAD
$\Theta_{G}$	GAS METER
	MAII DOV

AIR CONDITIONING UNIT ORNAMENTAL LIGHT

DECIDUOUS TREE CONIFEROUS TREE SECTION CORNER

SANITARY SEWER

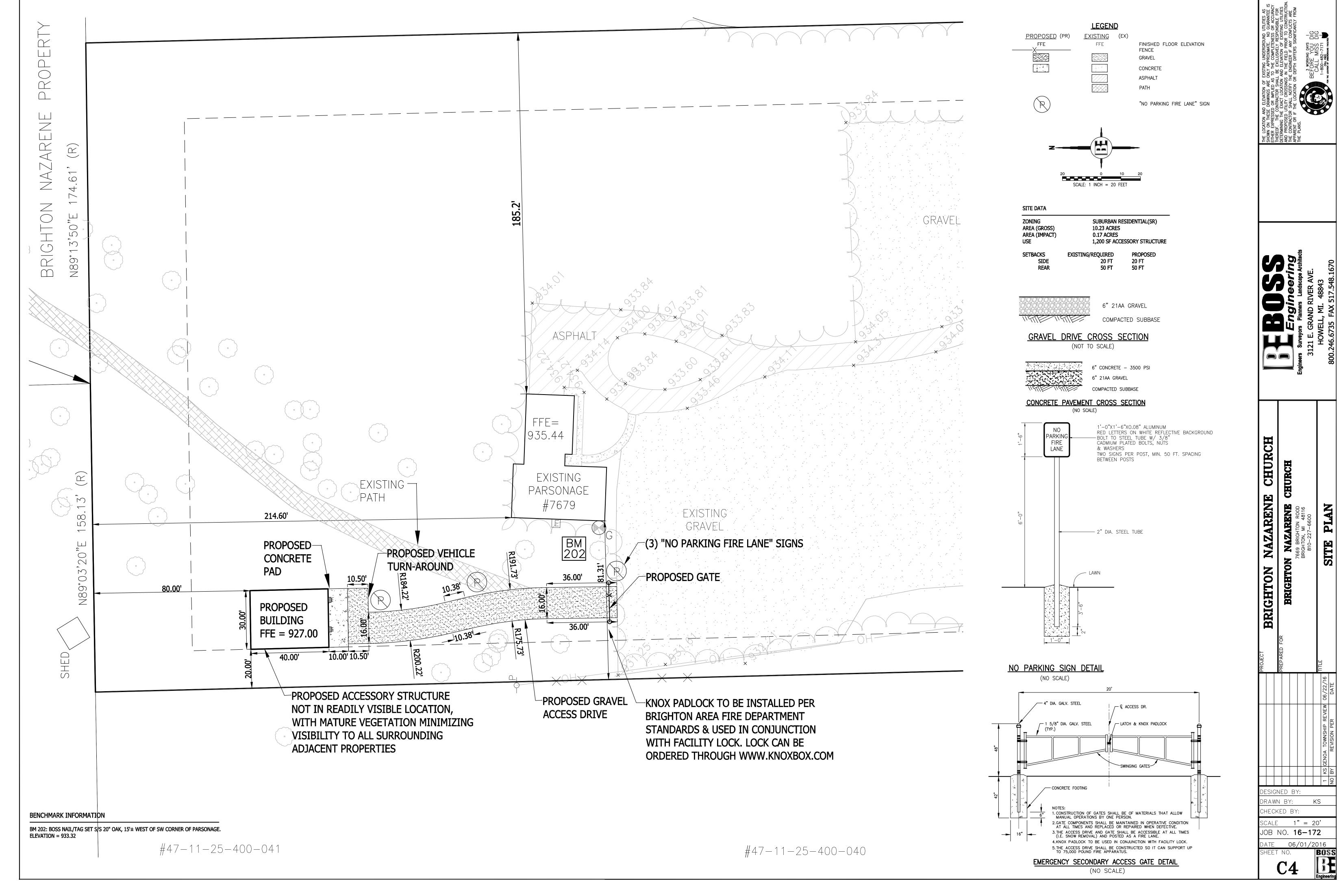
ELECTRICAL RISER

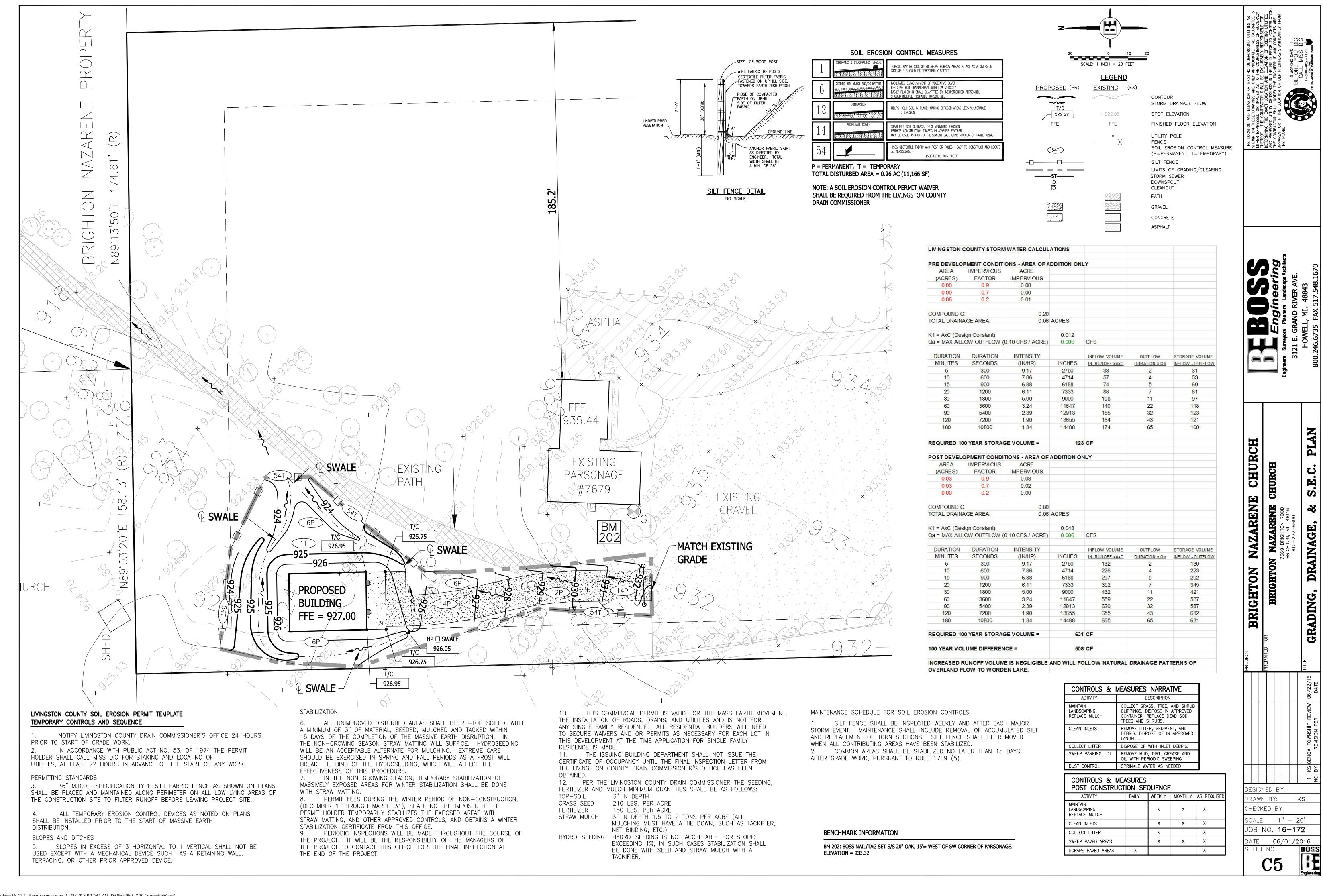
TO BE REMOVED

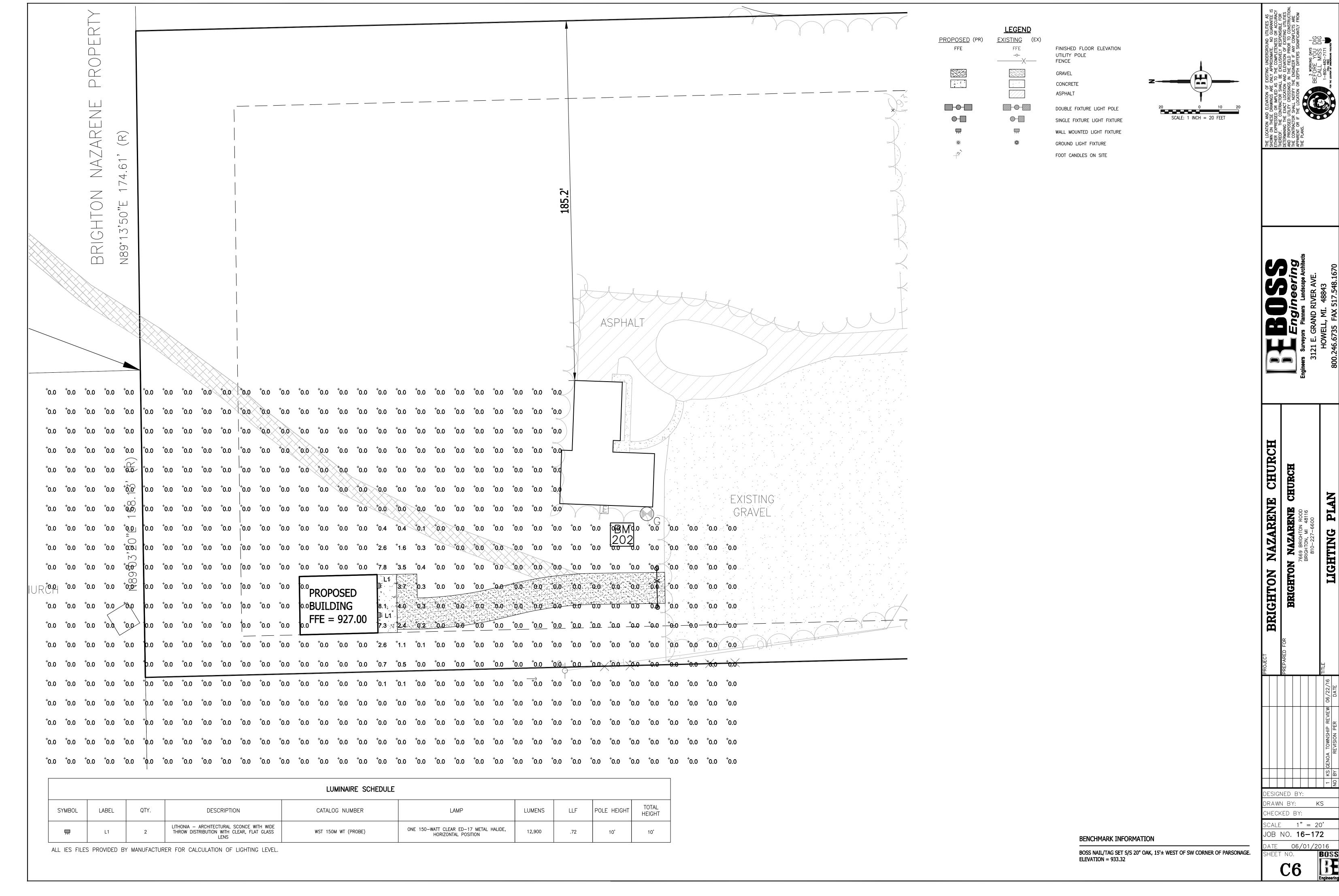
CHURCH ITION NAZARENE BRIGHTON

ESIGNED BY: RAWN BY: KS HECKED BY:

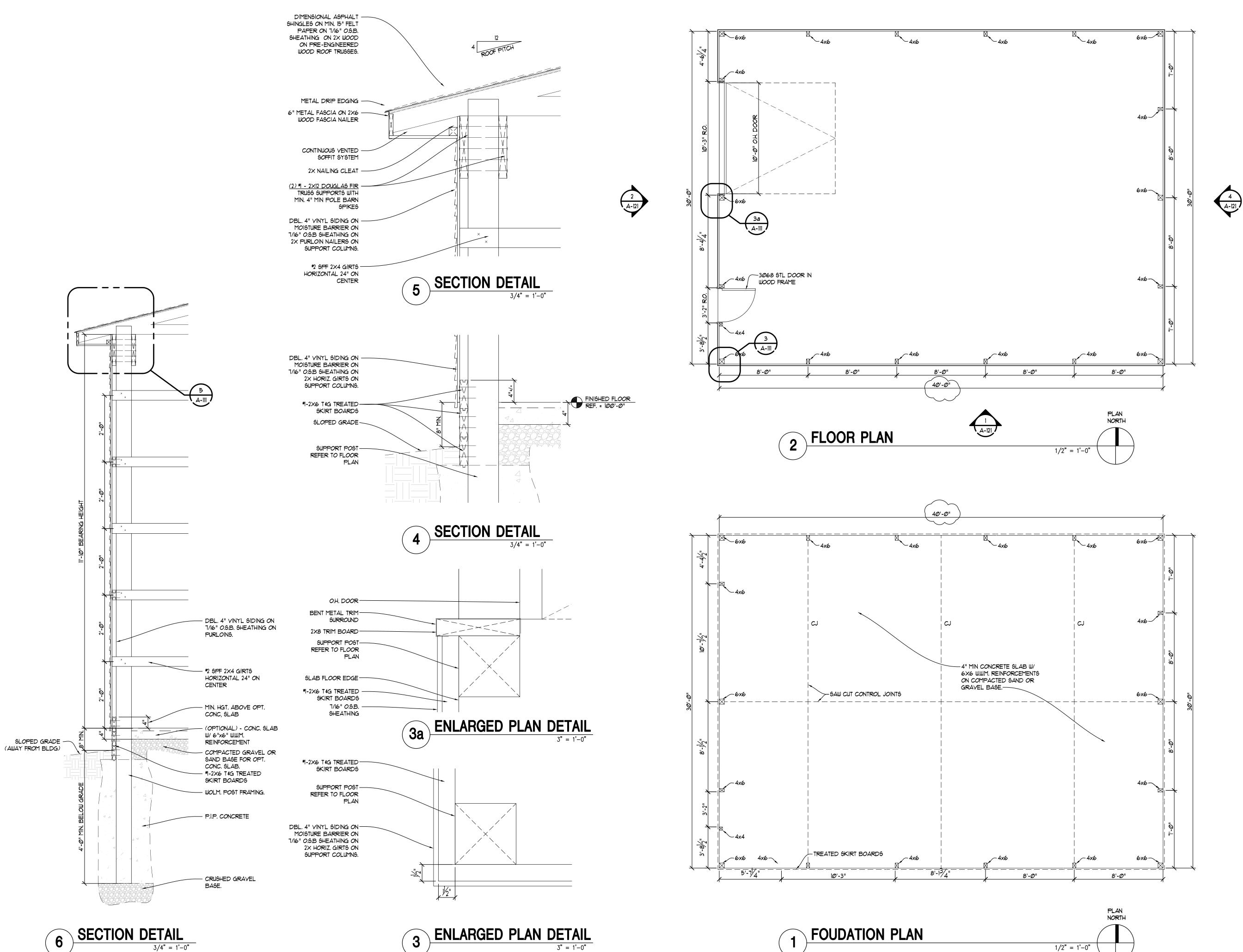
CALE 1" = 20'JOB NO. **16-172** ATE 06/01/2016

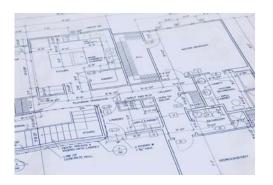












PMKN DESIGNS

7504 Bingham, Brighton. MI . 48116 810-599-0428 ph

## BRIGHTON NAZARENE CHURCH

notice

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project title

### VEHICLE GARAGE

7669 Brighton Lake Road Brighton, MI

# FLOOR PLANS, DETAILS & SECTIONS DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY

project number

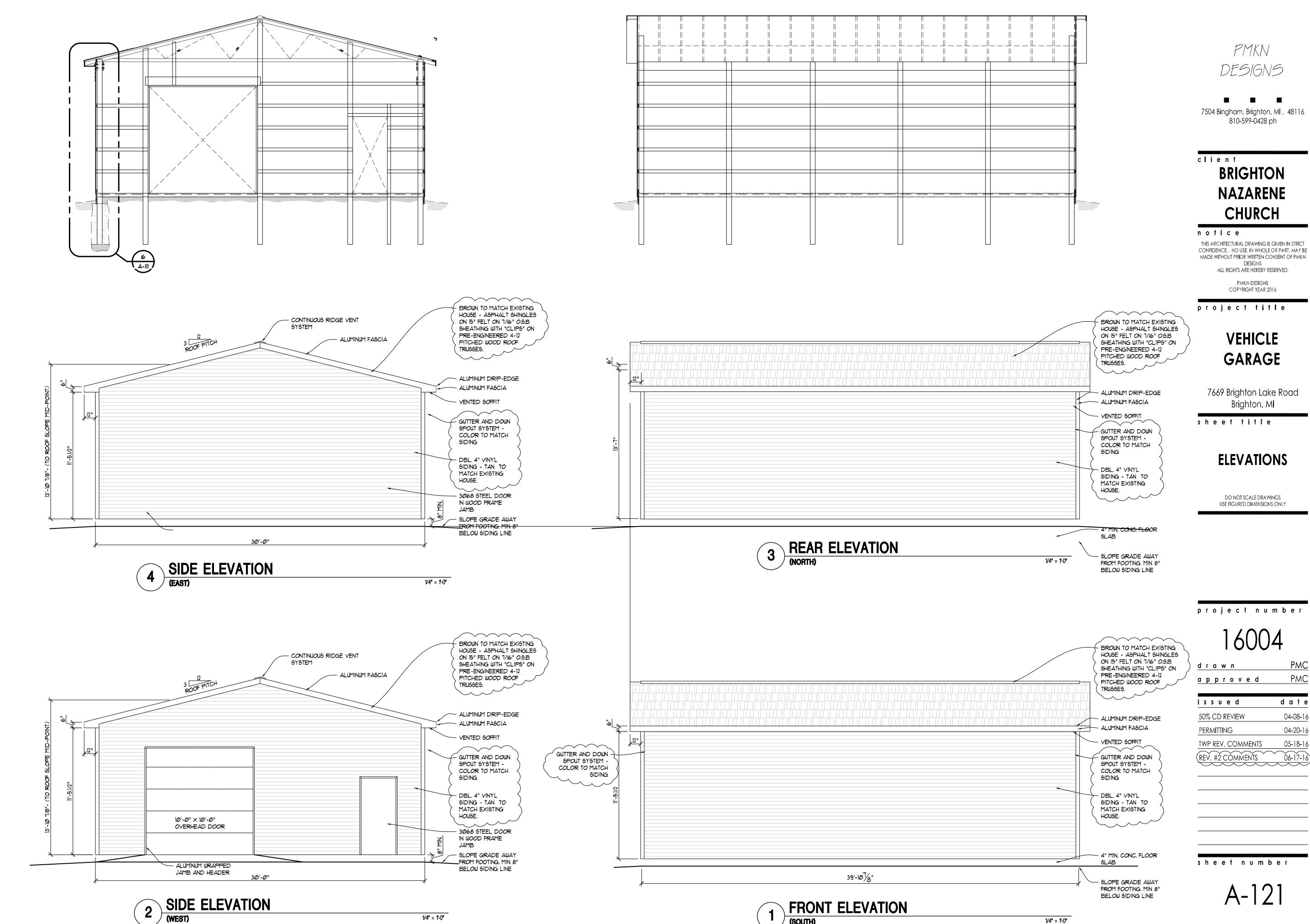
16004

drawn

a p p r o v e d	<u>PMC</u>
issued	d a t e
OWNER REVIEW	04-13-16
PERMITTING	04-20-16
TWP. REV. COMMENTS	05-18-16

sheet number

A-111



date 04-08-16 04-20-16 05-18-16 (REV. #2 COMMENTS 06-17-16 GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING June 13, 2016 6:30 P.M. MINUTES

<u>CALL TO ORDER:</u> The meeting of the Genoa Charter Township Planning Commission was called to order at 6:33 p.m. Present were Chairman Doug Brown, Diana Lowe, James Mortensen, Chris Grajek, John McManus, and Eric Rauch. Absent was Barbara Figurski. Also present was Kelly VanMarter, Community Development Director/Assistant Township Manager, Brian Borden of LSL Planning, and an audience of 10.

PLEDGE OF ALLEGIANCE: The pledge of allegiance was recited.

<u>APPROVAL OF AGENDA:</u> **Moved** by Commissioner McManus, seconded by Commissioner Mortensen, to approve the agenda as presented. **The motion carried unanimously.** 

<u>CALL TO THE PUBLIC:</u> The call to the public was made at 6:34 pm with no response.

**OPEN PUBLIC HEARING #1...**Review of special use applications, impact assessment, and site plan for proposed 9,200 square foot contractor's office, warehouse, and storage yard. Special land use approvals are requested for outdoor storage, storage of hazardous materials, and grading activities within 25 feet of natural features setback. The property is located on the east side of Victory Drive, south of Grand River Avenue, on vacant Parcel #11-05-303-025. The request is petitioned by Seaside Seawalls.

#### Planning Commission disposition of petition:

- A. Recommendation of Special Use Application
- B. Recommendation of Impact Assessment (5-25-16)
- C. Recommendation of Site Plan (5-25-16)

Mr. Aaron Wallace of Seaside Seawalls, Mr. Karl Vollmer, the architect for the project, and Brent LaVanway, of Boss Engineering were present.

Mr. LaVanway gave a brief description of the property, the proposed project and what is being requested. Mr. Vollmer showed colored renderings and the floor plan of the building.

Mr. Borden reviewed his letter of June 7, 2016. There was a discussion between the Planning Commission and the applicant regarding what materials and equipment will be stored on site. It was noted that this information was not included on the site plan and

in the impact assessment. This needs to be added prior to presenting the plan to the Township Board.

Mr. Borden stated there is no proposed screening or a berm shown on the south side of the property. There are no plantings shown for the north and east side of the site and he is unsure if the existing vegetation is sufficient to meet the requirements. Commissioner Mortensen does not feel there is enough information presented to make this determination. Commissioner Rauch agrees. He is also concerned with the containment of the materials being stored relative to the wetlands.

Commissioner Grajek is concerned with fueling the equipment and the possibility of spills. Mr. Borden stated there will be additional permits required for this use. Also, a Pollution Incident Prevention Plan is required. It was suggested that this plan be reviewed by the Township Engineer.

Mr. Wallace described the enclosure for the fuel tanks and how any spills will be contained. He also will be obtaining a permit from the DEQ, which will address Commissioner Grajek's concerns regarding fueling up equipment.

Mr. Borden stated that Planning Commission approval is required because the sedimentation basins encroach to the edge of the wetland. Additionally, the proposed fence is within 25 feet of the wetland setback and requires a variance. The applicant agreed to change the location of the fence so that it meets the requirements.

Mr. Borden stated there is no dumpster enclosure proposed and the Township Ordinance does not allow for this requirement to be waived. The applicant will provide a dumpster enclosure.

Chairman Brown read an e-mail submitted by Michael and Christine Bartlett who own three parcels adjacent to this property. They do not object to the outdoor storage; however, they would like the entire area to be fenced. They are concerned with the storage of hazardous materials and want to ensure that all requirements are being met with regard to containing leaks or spills.

Chairman Brown asked that "waiting room" be changed to "waiting room / show room" and the anticipated number of customers / visitors per week be added to the Impact Assessment.

The call to the public was made at 7:29 pm.

Mr. Bill Gregory, who owns 960 Victory Lane, believes this will be a good addition to the industrial area and has no objections to the proposal.

Commissioner Mortensen does not believe this plan is ready to be sent to the Township Board. There are outstanding issues with the landscaping buffer, fuel storage, dumpster enclosure, etc. Chairman Brown agrees that the plan needs to be revised to address the concerns raised this evening.

**Moved** by Commission Lowe, seconded by Commissioner Mortensen, to table Agenda Item #1 until the July 11, 2016 Planning Commission meeting. **The motion carried unanimously**.

**OPEN PUBLIC HEARING #2...**Review of site plan and impact assessment for a proposed 16,053 sq. ft. addition to an existing industrial building known as Michigan Rod Products, Inc., which is located at 1326 Grand Oaks Drive, Howell. The request is petitioned by Asselin, McLane Architectural Group, LLC.

#### Planning Commission disposition of petition:

- A. Recommendation of Impact Assessment (3-29-16)
- B. Disposition of Site Plan (5-25-16)

Mr. John Asselin of Asselin, McLane Architectural Group, LLC, gave a brief description of the proposed project and showed the proposed building materials.

Mr. Borden stated that the applicant has addressed all of the concerns in his original review letter. He noted that the applicant is proposing less parking that is required; however, they will be providing a land bank in the case additional parking is needed in the future. They are required to provide 143 spaces. They are proposing 131 spaces and land bank 143 spaces. They have three shifts with a total of 75 employees so he believes this proposal is sufficient.

The call to the public was made at 7:50 pm with no response.

**Moved** by Commissioner McManus, seconded by Commissioner Lowe, to recommend to the Township Board approval of the Impact Assessment for Michigan Rod Products, Inc. dated March 29, 2016. **The motion carried unanimously**.

**Moved** by Commissioner Mortensen, seconded by Commissioner Grajek, to approve the Site Plan dated May 25, 2016 for a 16,053 sq. ft. factory expansion for Michigan Rod Products, Inc., subject to the following:

- The conditions spelled out in the Township Engineer's letter dated June 8, 2016 must be met.
- The conditions spelled out in the Brighton Area Fire Authority's letter of June 3, 2016 must be met.

The motion carried unanimously.

#### **Administrative Business:**

Staff Report

Mr. VanMarter stated there will be five items on next month's agenda, plus the item that was tabled this evening.

• Approval of the May 9, 2016 Planning Commission meeting minutes

Ms. Lowe asked that "for Misty Meadows" be added to the motion to recommend approval of their Environmental Impact Assessment. She also asked that the statement, "Commissioner Lowe feels all Commissioners are able to make the motions" be changed to "Commissioner Lowe believes all Commissioners have the ability to make motions".

**Moved** by Commissioner Lowe, seconded by Commissioner Mortensen, to approve the minutes of the May 9, 2016 Planning Commission Meeting with the proposed changes. **The motion carried unanimously.** 

Member Discussion:

Commissioner Grajek questioned if Ms. VanMarter met with the BAFA regarding their requirements for cisterns. Ms. VanMarter stated she has spoken to them and expressed the Township's concerns and they have agreed to no longer require cisterns in their review letters when homes are over a certain size.

Adjournment

**Moved** by Commissioner McManus, seconded by Commissioner Mortensen, to adjourn the meeting at 8:00 pm. **The motion carried unanimously.**