#### GENOA CHARTER TOWNSHIP BOARD OF TRUSTEES REGULAR MEETING MAY 7, 2012 6:30 p.m.

#### AGENDA

Call to Order:

Pledge of Allegiance:

Call to the Public:

#### **Approval of Consent Agenda:**

1. Payment of Bills.

2. Request to approve minutes: April 16, 2012

3. Request for approval of a design phase services contract with Tetra Tech for the 2012 Sidewalk Program for the amount of \$17,000.

#### Approval of Regular Agenda:

4. Request for approval of amendment to the Township Litter Ordinance No. 120507.

A. Call to the public

B. Disposition of litter ordinance

5. Review of special use application, impact assessment, and site plan for a proposed 4,894 sq. ft. oil change facility located at 2798 E. Grand River, Howell, Sec. 6., petitioned by M. Krug Investments.

A. Approval of Special Use Application

B. Approval of Environmental Impact Assessment

C. Approval of Site Plan

6. Direct staff to issue a request for proposals for the construction of a Genoa Park Identification Sign.

Correspondence Member Discussion Adjournment

# CHECK REGISTERS FOR TOWNSHIP BOARD MEETING

## DATE : May 7, 2012

TOWNSHIP GENERAL EXPENSES: Thru May 7, 2012		\$67,844.51
		\$70,607.66
April 27, 2012 Bi Weekly Payroll		\$11,562.42
May 1, 2012 Monthly Payroll OPERATING EXPENSES: Thru May 7, 2012		\$86,161.85
OPERATING EXPENSES. This may 7, Lore	TOTAL:	\$236,176.44

Township of Genoa User: angie Accounts Payable Checks by Date - Summary by Check Number

	**	Mandar Nama	Check Date	Check Amount
Check Number	Genworth	Genworth Financial	04/17/2012	371.17
28434		Consumers Energy	04/19/2012	174.30
28435	Mancuso	Mancuso & Cameron, P.C.	04/19/2012	12,695.65
28436	Tetra Te	Tetra Tech Inc	04/19/2012	1,692.50
28437		MHOG Utilities	04/19/2012	105.68
28438	mhog Duthi - I	Josh Ruthig	04/19/2012	49.88
28439	RuthigJ	Schindler Elevator Corporation	04/19/2012	816.00
28440	Schindle	Verizon Wireless	04/19/2012	204.06
28441		Total Administrative Services	05/01/2012	227.27
28442	Administ	State Of Mich- Dept Of Treasur	04/24/2012	5,747.43
28443	SOM-TRE	Ailstar Alarm LLC	04/24/2012	270.00
28444	Allstar	AT&T	04/24/2012	124.62
28445	AT&T Fax		04/24/2012	106.10
28446	ATT& IL	AT&T Blue Cross & Blue Shield Of Mi	04/24/2012	22,647.13
28447	BLUE CRO		04/24/2012	1,070.86
28448	BullsEye	BullsEye Telecom	04/24/2012	42.00
28449	Clearwat	Clearwater Systems	04/24/2012	101.04
28450	COMCAST	COMCAST	04/27/2012	930.72
28451	Administ	Total Administrative Services	04/27/2012	905.00
28452	Equitabl	Equivest Unit Annuity Lock Box	04/24/2012	205.36
28453	DTE EN	DTE Energy	04/24/2012	773.80
28454	DYKEMA	Dykema Gossett PLLC	04/24/2012	565.00
28455	EHIM	EHIM, INC	04/24/2012	27,23
28456	FED EXPR	Federal Express Corp	04/24/2012	6,137.03
28457		WGenoa Township DPW Fund	04/24/2012	2,127.11
28458	Lincoln	Lincoln National Life Ins Co.	04/24/2012	40.00
28459	Lind Bry	Bryan Lindberg	04/24/2012	379.97
28460		A Master Media Supply	04/24/2012	218.40
28461	Rose	Rose Pest Solutions	04/24/2012	336.00
28462	VERIZON	W Verizon Wireless	04/24/2012	198.06
28463	WALMAR	T Walmart Community	04/25/2012	500.00
28464		L Michael Archinal	04/25/2012	91.87
28465	SHELL	Shell	04/27/2012	7,001.32
28466	EHIM	EHIM, INC	04/27/2012	97.36
28467	GNeil	GNeil	04/27/2012	342.10
28468	LEO'S CU	Leo's Custom Sprinkler Service		477.49
28469	MASTER I	M Master Media Supply	04/27/2012	45.00
28470	Net serv	Network Services Group, L.L.C.	04/27/2012	_ • • •

**Report Total:** 

67,844.51

# Accounts Payable Computer Check Register

## Genoa Township

#### 2911 Dorr Road Brighton, MI 48116

(810) 227-5225

User: diane Printed: 04/20/2012 - 15:41 Bank Account: 101CH

Check	Vendor No	Vendor Name	Date	Invoice No	Amount
28451	Administ	Total Administrative Services	04/27/2012		930.72
		Check 284	51 Total:		930.72
10267	AETNA LI	Aetna Life Insurance & Annuity	04/27/2012		25.00
		Check 102	267 Total:		25.00
10268	EFT-FED	EFT- Federal Payroll Tax	04/27/2012		7,507.94 2,803.77 4,138.89 967.96 967.96
		Check 10	268 Total:	_	16,386.52
10269	EFT-PENS	EFT- Payroll Pens Ln Pyts	04/27/2012	-	1,424.25
		Check 10	0269 Total:		1,424.25
28452	Equitabl	Equivest Unit Annuity Lock Boy	x 04/27/2012	-	905.00
		Check 2	8452 Total:		905.00
10270	FIRST NA	First National Bank	04/27/2012		300.00 2,770.00 47,866.17

### **First National Direct Deposit** APRIL 27, 2012 Pi Monthy Davroll

	Bi-Weekly Payroll	
Employee Name	Debit Amount	<u>Credit Amount</u>
	450 026 1 <b>7</b>	
Genoa Township	\$50,936.17	
Aaron Korpela		\$1,159.43
Adam Van Tassell		\$1,127.86
Alex Chimpouras		\$1,965.67
Amy Ruthig		\$1,009.12
Angela Williams		\$128.00
Caitiin Nims		\$1,189.45
Carol Hanus		\$1,242.61
Craig Bunkoske		<b>\$1,554.3</b> 4
Daniel Schlack		\$1,563.03
Dave Estrada		\$1,248.24
David Miller		\$1,949.95
Deborah Rojewski		\$1,612.07
Diane Zerby		\$702.44
Duane Chatterson		\$1,502.62
Greg Tatara		\$2,531.26
Jacob Mitchell		\$859.15
James Aulette		\$1,515.91
Jeffrey Meyers		\$1,175.45
Jenifer Kern		\$421.32
Joe Szabelski		\$0.00
Jonathan Morton		\$1,089.73
Judith Smith	·	\$1,218.57
Karen J. Saari		\$994.64
Kelly VanMarter		\$2,085.96
Kimberly MacLeod		\$975.78
Kristen Sapienza		\$386.16
Kyle Mitchell		\$963.87
Laura Mroczka		\$1,714.50
Martin Reich		\$1,609.71
Michael Archinal		\$2,973.79
Renee Gray		\$1,061.11
Richard Bigham		\$3,501.74
Robin Hunt		\$1,373.06 #1.248.35
Scott Lowe		\$1,248.35
Steven Anderson		\$1,741.94 \$615.86
Susan Sitner		\$013.00 \$1.003.65

Total Deposit

Tammy Lindberg

Tesha Humphriss

\$50,936.17

\$1,003.65

\$1,919.83

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# Accounts Payable Computer Check Register

#### Genoa Township

#### 2911 Dorr Road Brighton, MI 48116

(810) 227-5225

User: diane Printed: 04/24/2012 - 12:22 Bank Account: 101CH

	Vendor Name	Date	Invoice No	Amount
Administ	Total Administrative Services	05/01/2012		227.27
	Check 28	3442 Total:	·	227.27
EFT-FED	EFT- Federal Payroll Tax	05/01/2012		1,712.71 466.97 689.37 161.21 161.21
	Check 1	0271 Total:		3,191.47
EFT-PENS	EFT- Payroll Pens Ln Pyts	05/01/2012	_	212.66
	Check 1	10272 Total:	-	212.66
FIRST NA	First National Bank	05/01/2012	_	7,881.02 50.00
	Check	10273 Total:	_	7,931.02
	Report	Total:	-	11,562.42
	EFT-FED EFT-PENS	Check 24 EFT-FED EFT-Federal Payroll Tax Check 1 EFT-PENS EFT-Payroll Pens Ln Pyts Check 1 FIRST NA First National Bank Check	Check 28442 Total: EFT-FED EFT- Federal Payroll Tax 05/01/2012 Check 10271 Total: EFT-PENS EFT- Payroll Pens Ln Pyts 05/01/2012 Check 10272 Total:	Check 28442 Total: EFT-FED EFT-Federal Payroll Tax 05/01/2012 Check 10271 Total: EFT-PENS EFT-Payroll Pens Ln Pyts 05/01/2012 Check 10272 Total: FIRST NA First National Bank 05/01/2012 Check 10273 Total:

1

# First National Direct Deposit MAY 1, 2012 Monthly Payroll

Employee Name	<u>Debit Amount</u>	Credit Amount
Genoa Township	\$7,931.02	
Adam Van Tassel		\$548.50
Gary McCririe		\$2,304.01
H.J. Mortensen		\$687.79
Jean Ledford		\$482.80
Paulette Skolarus		\$3,233.53
Steve Wildman		\$330.49
Todd Smith		\$343.90
Total Deposit		\$7,931.02

12:46 PM

#### #504 DPW RESERVE FUND Payment of Bills April 14 through May 1, 2012

Type Date Num Name Memo Amount

no checks issued

12:51 PM

#### #503 DPW UTILITY FUND Payment of Bills April 14 through May 1, 2012

Туре	Date	Num	Name	Memo	Amount
Check	04/19/2012	2068	Carol Hanus	Reimburse for purchased summer shirts	-52.37
Check	04/19/2012	2069	Mancuso & Cameron	Re: Bigham Matter	-900.00
Check	04/25/2012	2070	D Hill Environmental	Wastewater Training (D. Miller)	-200.00
Check	04/25/2012	2071	TESHA HUMPHRISS	Monthly car allowance - May 2012	~500.00
Check	04/25/2012	2072	Greg Tatara	Monthly car allowance - May 2012	-500.00
	04/25/2012	2073	Shell Fleet Plus	March 2012 statement	-3,617.97
Check		2073	Verizon Wireless	Inv 2728454710	-244.08
Check	04/25/2012			Poster Guard 1 year State/Fed Bulletin Board	-97.36
Check	04/27/2012	2075	GNeil	Fusice Guard 1 your oldion of Burrow 2001	

#### Grand Total

-6,111.78

12:57 PM

#### #593 LAKE EDGEWOOD W/S FUND Payment of Bills April 14 through May 1, 2012

Туре	Date	Num	Name		Amount
Check	04/19/2012	2147	Consumers Energy	Service from 3/6/12 - 4/9/12	-457.68
Check	04/19/2012	2148	MHOG Utilities	7817 Bendix - 12/31/11 - 3/31/12	-22.18
Check	04/25/2012	2149	ΑΤ&Τ	Acct 053465-1001 001, 053465-1002 001	-18.45 -77.00
Check	04/25/2012	2150	Brighton Analytical L.L.C.	Inv #'s 0412-76557	-373.84
Check	04/25/2012	2151	BullsEye Telecom	Inv # 13996204 Replacement Door - final payment	-1,250.00
Check	04/25/2012	2152	Dexter Builders GENOA TWP-DPW FUND	Maintenance/billing fees April 2012	-9,338.66
Check	04/25/2012	2153	GENUA INF-DPW FOND		

Grand Total -11,537.81

#### #595 PINE CREEK W/S FUND Payment of Bills April 14 through May 1, 2012

Type Date Num Name Memo Amount

no checks issued

1:00 PM

### #592 OAK POINTE WATER/SEWER FUND Payment of Bills

#### April 14 through May 1, 2012

Туре	Date	Num	Name	Memo	Amount
10000000000000000000000000000000000000					
Check	04/19/2012	2358	AT & T	Acct 053 465 0885 001	-3.08
Check	04/19/2012	2359	COOPERS TURF MANAGEMENT, L	_ Inv # 9670	-200.00
Check	04/19/2012	2360	FONSON, INC.	lnv # 9979	-2,135.60
Check	04/19/2012	2361	McNaughton-McKay Electric	Inv 11955355-00	-791.75
Check	04/19/2012	2362	TETRA TECH, INC.	Inv # 50551826	-5,465.00
	04/19/2012	2363	UIS PROGRAMMABLE SERVICES	Inv 530339066	-1,362.77
Check	04/15/2012	2364	AT&T	Acct 810-227-4883 026 3	-134.16
Check		2365	BRIGHTON ANALYTICAL, LLC	Inv #'s 0412-76556 & 0412-76589	-134.00
Check	04/25/2012		Bullseye Telecom	Inv # 13978409	-708.10
Check	04/25/2012	2366		Maintenance/Billing fees April 2012	-36,464.50
Check	04/25/2012	2367		Inv S100352243.001	-9,990.00
Check	04/25/2012	2368	ETNA SUPPLY COMPANY		-6,438.80
Check	04/25/2012	2369	McNaughton-McKay Electric	Inv 11978858-00	,
Check	04/25/2012	2370	PVS Nolwood Chemicals, Inc	Inv 365069	-1,172.00
Check	04/25/2012	2371	WATER MASTERS LLC	Inv 2289	-3,100.00
Check	04/25/2012	2372	Wolverine Power Systems, Inc.	Inv # 0060689-1N	-412.50

Grand Total -68,512.26

#### GENOA CHARTER TOWNSHIP BOARD Regular Meeting April 16, 2012 6:30 p.m.

#### **MINUTES**

Supervisor McCririe called the regular meeting of the Genoa Charter Township Board to order at 6:30 p.m. The Pledge of Allegiance was then said. The following persons were present constituting a quorum for the transaction of business: Gary McCririe, Paulette Skolarus, Robin Hunt, Steve Wildman, Jim Mortensen, Todd Smith and Jean Ledford. Also present were Township Manager Michael Archinal, Township Attorney Frank Mancuso and ten persons in the audience.

A Call to the Public was made with no response.

#### Approval of Consent Agenda:

Moved by Smith and supported by Ledford to approve all items listed under the consent agenda as requested. The motion carried unanimously.

#### 1. Payment of Bills.

#### 2. Request to approve minutes: April 2, 2012

#### Approval of Regular Agenda:

Moved by Mortensen and supported by Wildman to approve for action all items listed under the regular agenda. The motion carried unanimously.

# 3. Review of special use application, impact assessment, and site plan for a proposed 4,894 sq. ft. oil change facility located at 2798 E. Grand River, Howell, Sec. 6., petitioned by M. Krug Investments.

A call to the public was made with the following response: Jenny Carrendar – I moved to Chilson Hills in July of 2008. Pictures were provided of the view from the homeowner' property and an aerial view of the Krug development. Snow pushed against the fence from the Krug site broke a couple of the boards in the privacy fence. Krug has worked with us on the lighting and things are much better. The 20' vegetative buffer would positively impact the expansion. Tom Dumond – With the buffer we would lose 54 parking spaces. Cheryl Williams – Some owners are concerned about adding trees to the west. Andy Klein – We agreed to work with the township but there is a money issue.

The board was not able to finalize an agreement concerning the buffering zone and the loss of parking places related to the combining of the two parcels and the requirements of the Township Zoning Ordinance. The petitioner will set a meeting with Archinal and VanMarter to establish a buffer zone between the residential and commercial development – specifically addressing the gravel area within the development and the impact on the residential area.

Moved by Smith and supported by Skolarus to table this petition until the next regular meeting of the board set for May 7, 2012. The motion carried unanimously.

4. Review of impact assessment for a proposed 2,659.5 sq. ft. addition to the existing Amerigas Propane building located at 2400 Dorr Road, Howell, Sec. 15, petitioned by American Excavating, L.L.C.

#### A. Disposition of Environmental Impact Assessment

Moved by Smith and supported by Ledford to approve the impact assessment dated April 11, 2012 as submitted. The motion carried unanimously.

# 6. Introduction of proposed amendment to the Township Litter Ordinance and request to set public hearing to consider adoption for the May 7, 2012 regular meeting.

Attorney Mancuso addressed the board concerning the conflict between the Township Zoning Ordinance and the Litter Ordinance. Minor changes were asked of the attorney. Moved by Ledford and supported by Mortensen to schedule the public hearing for May 7, 2012 and to publish a notice of that meeting and the availability of the complete document on the township web site. The motion carried unanimously.

The regular meeting of the Township Board adjourned at 7:30 p.m.

Bankette Ce Shalan

Paulette A. Skolarus Genoa Township Clerk

#### MEMORANDUM

TO: Township Board

FROM: Michael Archinal

DATE: 5/4/12

RE: 2012 5idewalk Program Tetra Tech Engineering Services Contract

This construction season we are proposing to install sidewalk on the north side of Grand River from Latson Road to Sunrise Park. This segment will connect to the two miles of path constructed to the west over the last two years. This project is a significant step towards achieving the goal of continuous sidewalks on Grand River. The project provides pedestrian access for a significant population living in Sunrise Park and Summerfield Pointe. We are expecting a total project cost of approximately \$150,000. This amount is included in the FY 2012/2013 Budget under Parks and Recreation.

Attached you will find a proposal from Tetra Tech in the amount of \$17,000 for construction plan development, MDOT permits, ADA compliance and assistance with easement acquisition. Please consider the following action:

Moved by , supported by , to approve a Design Phase Services Contract with Tetra Tech in the amount of \$17,000.

# TE TETRATECH

April 25, 2012

Mr. Michael Archinal, Manager Genoa Township 2911 Dorr Road Brighton, MI 48116

#### Re: 2012 Sidewalk Program Design Phase Services Proposal

Mr. Archinal:

Pursuant to our recent meeting, Tetra Tech is pleased to present the following proposal for design engineering services on the 2012 Sidewalk Program project.

#### BACKGROUND

Over the last several years, the Township has installed sidewalks along the north side of Grand River Avenue from Latson Road to the City of Howell. The proposed project will connect the existing sections of sidewalk installed by developers on the north side of Grand River east of Latson Road and extending to the Chemung interchange.

Township staff have evaluated the costs of this section of pathways using the Sidewalk Management Database and determined that the budget for the project is just over \$150,000. The proposed sidewalk will be located in the Michigan Department of Transportation (MDOT) right-of-way. Tetra Tech's general approach to this job will be to prepare construction plans, assist the Township in obtaining the necessary permits from MDOT, solicit quotes from contractors, and, under a future proposal, administer the construction of the sidewalks. A detailed scope of services is outlined below:

#### SCOPE OF SERVICES

- Utilizing the topographic mapping supplied by the Township from MDOT, we will prepare a topographic plan of the project area. The mapping was obtained several years ago and is missing several new developments such as the Tractor Supply store, First National Bank and the Westbury development. Our survey crew will review the mapping and then gather data in the field to supplement the topographic mapping and complete the existing conditions map.
- We will research and create the rights-of-way along the north side of Grand River within the project area.

Mr. Michael Archinal, Manager Genoa Township April 25, 2012 Page 2

- MDOT design requirements for the installation of sidewalk require compliance with the American's with Disability Act (ADA Standards). To ensure compliance with ADA Standards for maximum allowable slopes the topographic survey will be used to prepare the design of the walk and driveway ramps. A site walk will be completed.
- Prepare a standard cross-section for the sidewalk. Two widths, 5-feet (along TW Friends frontage) and 8-feet wide, are proposed to facilitate placement within the existing right-of-way and grading/drainage concerns.
- Complete an analysis of the slopes of the existing driveways.
- Prepare sidewalk construction plans inclusive of removals along the bituminous portion of the walk and drainage culverts in the DTE corridor and at Lawson Road.
- Prepare legal description of TW Friends and First National Bank property easements.
- Prepare legal description for temporary grading easements for two parcels.
- Assist the Township in obtaining a permit from MDOT for the proposed sidewalk improvements.
- Incorporate any permit conditions in the final plans for the Township's use in obtaining a construction quote for the work.

#### Assumptions

- This proposal was written to outline Tetra Tech's scope of services through the design phase of this project. We will provide a separate proposal for construction phase services once the final scope of services is determined.
- To comply with ADA requirements, some of the existing driveways may need alteration. This proposal does not include working with property owners to complete any needed adjustments in driveway slope.

#### SCHEDULE

Pursuant to your verbal direction we are proceeding with the design phase immediately. We anticipate the following schedule for the project.

Task	Completion Date
Construction Plans	June 2012
Township Award of Contract	July 2012
Installation of Sidewalks	October 2012

#### COMPENSATION

Compensation for our services will be based on our hourly billable rates, plus subconsulted services, multiplied by 1.15, plus in house reimbursable expenses. We propose a budget of \$17,000 for this phase of the project.

Mr. Michael Archinal, Manager Genoa Township April 25, 2012 Page 3

Please review this proposal and if you approve, please sign in the space below and return one original copy of this proposal for our records. Our Standard Terms and Conditions are attached and considered part of this proposal.

We appreciate the opportunity to provide continuing professional services to Genoa Township.

Please call if you have any questions.

Sincerely,

; place V2

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

Attachments: Tetra Tech Standard Terms and Conditions

PROPOSAL ACCEPTED BY\_\_\_\_\_

TITLE\_\_\_\_\_ DATE\_\_\_\_\_



Services Consultant will perform services for the Project as set forth in the provisions for Scope of Work/Fee/Schedule in the proposal and in accordance with these Terms & Conditions. Consultant has developed the Project scope of service, schedule, and compensation based on available information and various assumptions. The Client acknowledges that adjustments to the schedule and compensation may be necessary based on the actual circumstances encountered by Consultant in performing their services. Consultant is authorized to proceed with services upon receipt of an executed Agreement.

**Compensation** In consideration of the services performed by Consultant, the Client shall pay Consultant in the manner set forth above. The parties acknowledge that terms of compensation are based on an orderly and continuous progress of the Project. Compensation shall be equitably adjusted for delays or extensions of time beyond the control of Consultant. Where total project compensation has been separately identified for various tasks, Consultant may adjust the amounts allocated between tasks as the work progresses so long as the total compensation amount for the project is not exceeded.

Fee Definitions The following fee types shall apply to methods of payment:

- Salary Cost is defined as the individual's base salary plus customary and statutory benefits. Statutory benefits shall be as prescribed by law and customary benefits shall be as established by Consultant employment policy.
- Cost Plus is defined as the individual's base salary plus actual overhead plus
  professional fee. Overhead shall include customary and statutory benefits,
  administrative expense, and non-project operating costs.
- Lump Sum is defined as a fixed price amount for the scope of services described.
- Standard Rates is defined as individual time multiplied by standard billing rates for that individual.
- Subcontracted Services are defined as Project-related services provided by other parties to Consultant.
- Reimbursable Expenses are defined as actual expenses incurred in connection with the Project.

Payment Terms Consultant shall submit invoices at least once per month for services performed and Client shall pay the full invoice amount within 30 days of the invoice date. Invoices will be considered correct if not questioned in writing within 10 days of the invoice date. Client payment to Consultant is not contingent on arrangement of project financing or receipt of funds from a third party. In the event the Client disputes the invoice or any portion thereof, the undisputed portion shall be paid to Consultant based on terms of this Agreement. Invoices not in dispute and unpaid after 30 days shall accrue interest at the rate of one and one-half percent per month (or the maximum percentage allowed by law, whichever is the lesser). Invoice payment delayed beyond 60 days shall give Consultant the right to stop work until payments are current. Non-payment beyond 70 days shall be just cause for termination by Consultant.

Additional Services The Client and Consultant acknowledge that additional services may be necessary for the Project to address issues that may not be known at Project initiation or that may be required to address circumstances that were not foreseen. In that event, Consultant notify the Client of the need for additional services and the Client shall pay for such additional services in an amount and manner as the parties may subsequently agree.

Site Access The Client shall obtain all necessary approvals for Consultant to access the Project site(s).

Underground Facilities Consultant and/or its authorized subcontractor will conduct research and perform site reconnaissance in an effort to discover the location of existing underground facilities prior to developing boring plans, conducting borings, or undertaking invasive subsurface investigations. Client recognizes that accurate drawings or knowledge of the location of such facilities may not exist, or that research may reveal as-built drawings or other documents that may inaccurately show, or not show, the location of existing underground facilities. In such events, except for the sole negligence, willful misconduct, or practice not conforming to the Standard of Care cited in this Agreement, Client agrees to indemnify and hold Consultant and/or its Subcontractor harmless from any and all property damage, injury, or economic loss arising or allegedly arising from borings or other subsurface penetrations.

Regulated Wastes Client is responsible for the disposal of all regulated wastes generated as a result of services provided under this Agreement. Consultant and Client mutually agree that Consultant assumes no responsibility for the waste or disposal thereof.

**Contractor Selection** Consultant may make recommendations concerning award of construction contracts and products. The Client acknowledges that the final selection of construction contractors and products is the Client's sole responsibility.

**Ownership of Documents** Drawings, specifications, reports, programs, manuals, or other documents, including all documents on electronic media, prepared under this Agreement are instruments of service and are, and shall remain, the property of Consultant. Record documents of service shall be based on the printed copy. Consultant will retain all common law, statutory, and other reserved rights, including the copyright thereto. Consultant will furnish documents electronically; however, the Client releases Consultant from any liability that may result from documents used in this form. Consultant shall not be held liable for reuse of documents or modifications thereof by the Client or its representatives for any purpose other than the original intent of this Agreement, without written authorization of and appropriate compensation to Consultant.

Standard of Care Services provided by Consultant under this Agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. Consultant makes no warranty or guaranty, either express or implied. Consultant will not be liable for the cost of any omission that adds value to the Project.

Period of Service Consultant shall perform the services for the Project in a timely manner consistent with sound professional practice. Consultant will strive to perform its services according to the Project schedule set forth in the provisions for Scope of Work/Fee/Schedule above. The services of each task shall be considered complete when deliverables for the task have been presented to the Client. Consultant shall be entitled to an extension of time and compensation adjustment for any delay beyond Consultant control.

Insurance and Liability Consultant shall maintain the following insurance and coverage limits during the period of service. The Client will be named as an additional insured on the Commercial General Liability and Automobile Liability insurance policies.

Worker's Compensation - as required by applicable state statute

Commercial General Liability - \$1,000,000 per occurrence for bodily injury, including death and property damage, and \$2,000,000 in the aggregate

Automobile Liability -\$1,000,000 combined single limit for bodily injury and property damage

Professional Liability (E&O) - \$1,000,000 each claim and in the aggregate

The Client shall make arrangements for Builder's Risk, Protective Liability, Pollution Prevention, and other specific insurance coverage warranted for the Project in amounts appropriate to the Project value and risks. Consultant shall be a named insured on those policies where Consultant may be at risk. The Client shall obtain the counsel of others in setting insurance limits for construction contracts.

Indemnification Consultant shall indemnify and hold harmless the Client and its employees from any liability, settlements, loss, or costs (including reasonable aftorneys' fees and costs of defense) to the extent caused solely by the negligent act, error, or omission of Consultant in the performance of services under this Agreement. If such damage results in part by the negligence of another party, Consultant shall be liable only to the extent of Consultant's proportional negligence.

Dispute Resolution The Client and Consultant agree that they shall diligently pursue resolution of all disagreements within 45 days of either party's written notice using a mutually acceptable form of mediated dispute resolution prior to exercising their rights under law. Consultant shall continue to perform services for the Project and the Client shall pay for such services during the dispute resolution process unless the Client issues a written notice to suspend work.

Suspension of Work The Client may suspend services performed by Consultant with cause upon fourteen (14) days wriften notice. Consultant shall submit an invoice for services performed up to the effective date of the work suspension and the Client shall pay Consultant all outstanding invoices within fourteen (14) days. If the work suspension exceeds thirty (30) days from the effective work suspension date, Consultant shall be entitled to renegotiate the Project schedule and the compensation terms for the Project. Termination The Client or Consultant may terminate services on the Project upon seven (7) days written notice without cause or in the event of substantial failure by the other party to fulfill its obligations of the terms hereunder. Consultant shall submit an invoice for services performed up to the effective date of termination and the Client shall pay Consultant all outstanding invoices within fourteen (14) days. The Client may withhold an amount for services that may be in dispute provided that the Client furnishes a written notice of the basis for their dispute and that the amount withheld represents a reasonable value.

Authorized Representative The Project Manager assigned to the Project by Consultant is authorized to make decisions or commitments related to the project on behalf of Consultant. Only authorized representatives of Consultant are authorized to execute contracts and/or work orders on behalf of Consultant. The Client shall designate a representative with similar authority.

Project Requirements The Client shall confirm the objectives, requirements, constraints, and criteria for the Project at its inception. If the Client has established design standards, they shall be furnished to Consultant at Project inception. Consultant will review the Client design standards and may recommend alternate standards considering the standard of care provision.

**Independent Consultant** Consultant is and shall be at all times during the term of this Agreement an independent consultant and not an employee or agent of the Client. Consultant shall retain control over the means and methods used in performing Consultant's services and may retain subconsultants to perform certain services as determined by Consultant.

**Compliance with Laws** Consultant shall perform its services consistent with sound professional practice and endeavor to incorporate laws, regulations, codes, and standards applicable at the time the work is performed. In the event that standards of practice change during the Project, Consultant shall be entitled to additional compensation where additional services are needed to conform to the standard of practice.

Permits and Approvals Consultant will assist the Client in preparing applications and supporting documents for the Client to secure permits and approvals from agencies having jurisdiction over the Project. The Client agrees to pay all application and review fees.

Limitation of Liability In recognition of the relative risks and benefits of the project to both the Client and Consultant, the risks have been allocated such that the Client agrees, to the fullest extent permitted by law, to limit the liability of Consultant and its subconsultants to the Client and to all construction contractors and subcontractors on the project for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, so that the total aggregate liability of Consultant and its subconsultants to all those named shall not exceed \$50,000 or the amount of Consultant's total fee paid by the Client for services under this Agreement, whichever is the greater. Such claims and causes include, but are not limited to negligence, professional errors or omissions, strict liability, breach of contract or warranty.

**Consequential Damages** Neither the Client nor Consultant shall be liable to the other for any consequential damages regardless of the nature or fault.

Waiver of Subrogation Consultant shall endeavor to obtain a waiver of subrogation against the Client, if requested in writing by the Client, provided that Consultant will not increase its exposure to risk and Client will pay the cost associated with any premium increase or special fees.

Environmental Matters The Client warrants that they have disclosed all potential hazardous materials that may be encountered on the Project. In the event unknown hazardous materials are encountered, Consultant shall be entitled to additional compensation for appropriate actions to protect the health and safety of its personnel, and for additional services required to comply with applicable laws. The Client shall indemnify Consultant from any claim related to hazardous materials encountered on the Project except for those events caused by negligent acts of Consultant.

**Cost Opinions** Consultant shall prepare cost opinions for the Project based on historical information that represents the judgment of a qualified professional. The Client and Consultant acknowledge that actual costs may vary from the cost opinions prepared and that Consultant offers no guarantee related to the Project cost.

**Contingency Fund** The Client acknowledges the potential for changes in the work during construction and the Client agrees to include a contingency fund in the Project budget appropriate to the potential risks and uncertainties associated with the Project. Consultant may offer advice concerning the value of the contingency fund; however, Consultant shall not be liable for additional costs that the Client may incur beyond the contingency fund they select unless such additional cost results from a negligent act, error, or omission related to services performed by Consultant.

Safety Consultant shall be responsible solely for the safety precautions or programs of its employees and no other party.

Information from Other Parties The Client and Consultant acknowledge that Consultant will rely on information furnished by other parties in performing its services under the Project. Consultant shall not be liable for any damages that may be incurred by the Client in the use of third party information.

Force Majeure Consultant shall not be liable for any damages caused by any delay that is beyond Consultant's reasonable control.

Waiver of Rights The failure of either party to enforce any provision of these terms and conditions shall not constitute a waiver of such provision nor diminish the right of either party to the remedies of such provision.

Warranty Consultant warrants that it will deliver services under the Agreement within the standard of care. No other expressed or implied warranty is provided by Consultant.

Severability Any provision of these terms later held to violate any law shall be deemed void and all remaining provisions shall continue in force. In such event, the Client and Consultant will work in good faith to replace an invalid provision with one that is valid with as close to the original meaning as possible.

Survival All provisions of these terms that allocate responsibility or liability between the Client and Consultant shall survive the completion or termination of services for the Project.

Assignments Neither party shall assign its rights, interests, or obligations under the Agreement without the express written consent of the other party.

**Governing Law** The terms of agreement shall be governed by the laws of the state where the services are performed provided that nothing contained herein shall be interpreted in such a manner as to render it unenforceable under the laws of the state in which the Project resides.

**Collection Costs** In the event that legal action is necessary to enforce the payment provisions of this Agreement if Client fails to make payment within sixty (60) days of the invoice date, Consultant shall be entitled to collect from the Client any judgment or settlement sums due, reasonable attorneys' fees, court costs, and expenses incurred by Consultant in connection therewith and, in addition, the reasonable value of Consultant's time and expenses spent in connection with such collection action, computed at Consultant's prevailing fee schedule and expense policies.

Equal Employment Opportunity Consultant will comply with federal regulations pertaining to Equal Employment Opportunity. Consultant is in complianca with applicable local, state, and federal regulations concerning minority hiring. It is Consultant's policy to ensure that applicants and employees are treated equally without regard to race, creed, sex, color, religion, veteran status, ancestry, citizenship status, national origin, marital status, sexual orientation, or disability. Consultant expressly assures all employees, applicants for employment, and the community of its continuous commitment to equal opportunity and fair employment practices.

Attorney Fees Should there be any suit or action instituted to enforce any right granted in this contract, the substantially prevailing party shall be entitled to recover its costs, disbursements, and reasonable attorney fees from the other party. The party that is awarded a net recovery against the other party shall be deemed the substantially prevailing party unless such other party has previously made a bona fide offer of payment in settlement. Reasonable attorney fees may be recovered regardless of the forum in which the dispute is heard, including an appeal.

Third Party Beneficiaries Nothing in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the Client or the Consultant. The Consultant's services under this Agreement are being performed solely for the Client's benefit, and no other entity shall have any claim against the Consultant because of this Agreement or the performance or nonperformance of services hereunder. The Client agrees to include a provision in all contracts with contractors and other entities involved in this project to carry out the intent of this paragraph.

**Captions** The captions herein are for convenience only and are not to be construed as part of this Agreement, nor shall the same be construed as defining or limiting in any way the scope or intent of the provisions hereof.

#### LITTER ORDINANCE

#### AN ORDINANCE TO PROVIDE FOR THE REGULATION, CONTROL AND PROHIBITION OF LITTERING OF OR ON PROPERTY OR WATERS OF AND IN GENOA TOWNSHIP; AND TO PROVIDE PENALITIES FOR VIOLATION OF SAID ORDINANCE.

THE TOWNSHIP OF GENOA, LIVINGSTON COUNTY, MICHIGAN ORDAINS:

#### **SECTION 1. DEFINITIONS**

The term "litter" shall include, without limitation, all rubbish, refuse, water material, garbage, including but not limited to the following; waste composed or animal, fish, fowl fruit or vegetable matter, dead animals, putrescible and non-putrescible solid waste (except body wastes), glass, cans bottles, discarded or abandoned machinery, equipment or parts thereof, discarded or abandoned motor vehicles or parts thereof, parts of broken furniture, stoves or other appliances and industrial wastes.

The term "person" shall include all natural persons, firms, co-partnerships, corporations, and all associations of natural persons, incorporated or unincorporated, whether acting by themselves, or by agent or employee. All persons who violate any provision of this ordinance, whether as owner, occupant, lessee, agent or employee shall be equally liable as any principal.

The term "public and private property" includes, but is not limited to, any and all streets, right of way of any street, road or highway, sidewalk, boulevard, alley or other public way and any and all public park, square, open space, conservation or recreation area playground or building; and residential or farm properties or timberlands.

The term "vehicle" means every motor vehicle required to be registered under the provisions of Act. No. 300 of Public Act of 1949 of the State of Michigan, the Michigan Vehicle Code, as amended, (MCL 257.1, et seq) to operate on a public road.

The term "vessel" means every description of watercraft other than a seaplane on the water, used or capable of being used as a means of transportation on water.

The term "waters" means any body of water or watercourses, or the shore or beach thereof, including the ice above the water.

#### SECTION 2. LITTERING; PUBLIC AND PRIVATE PROPERTY

It shall be unlawful for any person knowingly, without consent of the township or the owner of private property in this township, to dump, deposit, place, throw or leave, or cause or permit the dumping, depositing, placing, throwing or leaving, of litter in or upon any public or private property or any waters within the township other than property designated and set aside for such purposes, or except in public receptacles and private receptacles for collection.

#### SECTION 3. LITTER THROWN BY PERSONS IN VEHICLES

It shall be unlawful for any person while a driver or passenger in a vehicle or vessel to throw or deposit litter upon any street, roadway or waters or other public or private property within the township.

# SECTION 4. PLACEMENT OF LITTER IN RECEPTACLES SO AS TO PREVENT SCATTERING

Persons placing litter in public or private receptacles designed for such purposes shall do so in such a manner as to prevent it from being carried or deposited by the elements or by animals upon any street, sidewalk or other public or private lands or place.

#### SECTION 5. TRUCK LOADS CAUSING LITTER

No person shall drive or move any motor vehicle or trailer within the township unless such vehicle or trailer is so constructed or loaded as to prevent any load, contents or litter from being blown or deposited upon any street, alley or public or private lands or place.

#### SECTION 6. PRESUMPTIONS RE VEHICLES OR VESSELS

(1) In a proceeding for a violation of this ordinance involving litter from a motor vehicle or vessel, proof that the particular vehicle or vessel described in the citation, complaint or warrant was used in the violation, together with proof that the defendant named in the citation, complaint or warrant was the registered owner of the vehicle or vessel at the time of the violation, constitutes in evidence a presumption that the registered owner of the vehicle or vessel was the driver of the vehicle or vessel at the time of the violation.
(2) The driver of a vehicle or vessel is presumed to be responsible for litter which is thrown, dropped, dumped, deposited, placed or left from the vehicle or vessel on public or private property or waters.

(3) In a proceeding for a violation of this act involving litter from a leased vehicle or leased vessel, proof that the particular vehicle or vessel described in the citation, complaint or warrant was used in the violation, together with proof that the defendant named in the citation, complaint or warrant was the lessee of the vehicle or vessel at the time of the violation, constitutes in evidence a presumption that the lessee of the vehicle or vessel was the driver of the vehicle or vessel at the time of the violation.

#### SECTION 7. VIOLATION; PUNISHMENT

Any violation of this ordinance by any person shall be deemed a misdemeanor and shall be punishable by a fine not to exceed Five Hundred Dollars (\$500.00) plus costs of prosecution, or by imprisonment in the county jail not to exceed ninety (90) days, or by both such fine and imprisonment plus costs of prosecution. The court in lieu of any sentence imposed, may direct a substitution of litter gathering labor, including, but not limited to, the litter connected with the particular violation, and proper disposal of said litter, under the supervision of the court. Each day that a violation continues shall be deemed to be a separate violation. This ordinance shall not prevent the township from using other methods or means available under Michigan law pertaining to litter problems or violations.

SECTION 8. CONFLICTING PROVISIONS REPEALED

Ordinances or parts of ordinances in conflict or inconsistent herewith are hereby repealed.

SECTION 9. SEVERABILITY

This ordinance and various parts, sections and clauses thereof are hereby declared severable. If any part, section, paragraph or clause is adjudged invalid, it is hereby provided that the remainder of the ordinance shall not be affected thereby.

This ordinance shall take effect on the

day of ,2012.

STATE OF MICHIGAN

COUNTY OF LIVINGSTON

I hereby certify that the foregoing ordinance is a true copy of the ordinance enacted by the township board on the day of , 2012, and that the necessary legal provisions have been observed.

) SS.

Polly Skolarus, Township Clerk

I, Polly Skolarus, Clerk of the Township of Genoa, hereby certify that the foregoing ordinance was published within ten days after adoption by printing the same in the Livingston County Press on the day of , 2012.

Polly Skolarus, Township Clerk

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The term "public and private property" includes, but is not limited to, any and all streets, right of way of any street, road or highway, sidewalk, boulevard, alley or other public way and any and all public park, square, open space, conservation or recreation area playground or building; and residential or farm properties or timberlands.

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SECTION 8. CONFLICTING PROVISIONS REPEALED

Ordinances or parts of ordinances in conflict or inconsistent herewith are hereby repealed.

SECTION 9. SEVERABILITY

This ordinance and various parts, sections and clauses thereof are hereby declared severable. If any part, section, paragraph or clause is adjudged invalid, it is hereby provided that the remainder of the ordinance shall not be affected thereby.

This ordinance shall take effect on the

day of ,2012.

STATE OF MICHIGAN

COUNTY OF LIVINGSTON

I hereby certify that the foregoing ordinance is a true copy of the ordinance enacted by the township board on the day of , 2012, and that the necessary legal provisions have been observed.

) SS.

Polly Skolarus, Township Clerk

I, Polly Skolarus, Clerk of the Township of Genoa, hereby certify that the foregoing ordinance was published within ten days after adoption by printing the same in the Livingston County Press on the day of , 2012.

Polly Skolarus, Township Clerk



2911 Dorr Road Brighton, MI 48116 810.227.5225 810.227.3420 fax genoa.org

## MEMORANDUM

TO:	Honorable Board of Trustees
FROM:	Kelly VanMarter, Planning Director
DATE:	May 4 <sup>th</sup> , 2012
RE:	Krug Quick Lane – Site Plan/Special Land Use

It is my understanding that this item was tabled at the last Board meeting to allow the Township to work with the applicant on the unresolved issue of providing a buffer between the homes in the Chilson Hills subdivision and the Krug Ford car dealership. Trustee Smith, Supervisor McCririe and myself met with the applicant on May 2<sup>nd</sup> 2012. The applicant expressed their issues and concerns with removal of the existing asphalt parking area to establish a buffer along the full width of the property line. At the request of Mr. Smith and supported by Supervisor McCririe, the applicant has agreed to remove some of the gravel parking area and plant a row of 5 evergreen trees to screen the adjacent residential from the proposed Quick Lane. In the attached documentation please find a revised overall site plan sheet dated 5/2/12 indicating the location of the proposed trees. The applicant is requesting approval of this scenario in lieu of the full buffer recommended in the prior review letter.

Pending Board resolution of the buffer zone issue, I would like to make the following recommendation regarding the Special Use Permit, Impact Assessment and Site Plan:

**<u>Recommendation of Special Use Permit</u>:** I recommend <u>approval</u> of the Special Land Use Permit with the following conditions:

- 1.) Parcels 4711-06-200-058 and 4711-06-200-103 will be combined into one parcel.
- 2.) This Special Land Use is approved because it has been found to comply with the requirements of Sections 19.03 and 7.02.02(k) of the Township Zoning Ordinance.

# **<u>Recommendation of Impact assessment (dated 04-04-12)</u>: I recommend <u>approval</u> of the impact assessment with the following conditions:**

- 1.) The Spill Prevention Control and Countermeasure Plan is included in the approval.
- 2.) The petitioner shall document the retrofits to the existing light fixtures as stated in Item E so that the Township can verify this item is complied with.

#### SUPERVISOR

Gary T. McCririe

CLERK Paulette A. Skolarus

TREASURER

Robin L. Hunt

MANAGER Michael C. Archinal

TRUSTEES

H. James Mortensen Jean W. Ledford Todd W. Smith Steven Wildman May 4, 2012 Board of Trustees Krug Quick Lane Site Plan & Special Land Use Page 2

**Recommendation of Site Plan (dated 04-04-12):** I recommend <u>approval</u> of the site plan with the following conditions:

- 1.) The proposed lighting shall meet the Township Ordinance. Additional lighting shall not be installed on the building if the location exceeds current ordinance footcandle standards.
- 2.) Additional detail shall be provided on the plans regarding the banked dumpster location to ensure fit and function.
- 3.) The petitioner shall satisfy the requirements of the Township Engineer prior to issuance of a Land Use Permit. This will include providing a Storm Water Easement in recordable form prior to issuance of a Land Use Permit.

Should you have any questions concerning this matter, please do not hesitate to contact me.

#### GENOA CHARTER TOWNSHIP BOARD Regular Meeting April 16, 2012 6:30 p.m.

#### **MINUTES**

Supervisor McCririe called the regular meeting of the Genoa Charter Township Board to order at 6:30 p.m. The Pledge of Allegiance was then said. The following persons were present constituting a quorum for the transaction of business: Gary McCririe, Paulette Skolarus, Robin Hunt, Steve Wildman, Jim Mortensen, Todd Smith and Jean Ledford. Also present were Township Manager Michael Archinal, Township Attorney Frank Mancuso and ten persons in the audience.

A Call to the Public was made with no response.

#### Approval of Consent Agenda:

Moved by Smith and supported by Ledford to approve all items listed under the consent agenda as requested. The motion carried unanimously.

#### 1. Payment of Bills.

#### 2. Request to approve minutes: April 2, 2012

#### Approval of Regular Agenda:

Moved by Mortensen and supported by Wildman to approve for action all items listed under the regular agenda. The motion carried unanimously.

# 3. Review of special use application, impact assessment, and site plan for a proposed 4,894 sq. ft. oil change facility located at 2798 E. Grand River, Howell, Sec. 6., petitioned by M. Krug Investments.

A call to the public was made with the following response: Jenny Carrendar – I moved to Chilson Hills in July of 2008. Pictures were provided of the view from the homeowner' property and an aerial view of the Krug development. Snow pushed against the fence from the Krug site broke a couple of the boards in the privacy fence. Krug has worked with us on the lighting and things are much better. The 20' vegetative buffer would positively impact the expansion. Tom Dumond – With the buffer we would lose 54 parking spaces. Cheryl Williams – Some owners are concerned about adding trees to the west. Andy Klein – We agreed to work with the township but there is a money issue.

The board was not able to finalize an agreement concerning the buffering zone and the loss of parking places related to the combining of the two parcels and the requirements of the Township Zoning Ordinance. The petitioner will set a meeting with Archinal and VanMarter to establish a buffer zone between the residential and commercial development – specifically addressing the gravel area within the development and the impact on the residential area.

Moved by Smith and supported by Skolarus to table this petition until the next regular meeting of the board set for May 7, 2012. The motion carried unanimously.

4. Review of impact assessment for a proposed 2,659.5 sq. ft. addition to the existing Amerigas Propane building located at 2400 Dorr Road, Howell, Sec. 15, petitioned by American Excavating, L.L.C.

#### A. Disposition of Environmental Impact Assessment

Moved by Smith and supported by Ledford to approve the impact assessment dated April 11, 2012 as submitted. The motion carried unanimously.

# 6. Introduction of proposed amendment to the Township Litter Ordinance and request to set public hearing to consider adoption for the May 7, 2012 regular meeting.

Attorney Mancuso addressed the board concerning the conflict between the Township Zoning Ordinance and the Litter Ordinance. Minor changes were asked of the attorney. Moved by Ledford and supported by Mortensen to schedule the public hearing for May 7, 2012 and to publish a notice of that meeting and the availability of the complete document on the township web site. The motion carried unanimously.

The regular meeting of the Township Board adjourned at 7:30 p.m.

Bankette Ce Shalan

Paulette A. Skolarus Genoa Township Clerk

# 5/4/12 - This e-mail was grabbed by the junk e-mail filter & was recovered after the 4/16/12 meeting. It is being included for your information. - K. VanMarter

From: To: Subject: Date: Pat Murphy Kelly VanMarter Krug Ford oil change facility Monday, April 23, 2012 9:00:45 AM

#### Dear Kelly:

I am, unfortunately, unable to make tonight's meeting of the Board of Trustees but wanted to make sure you had my input as a Chilson Hills Homeowners Association Board member at large. As you know we did meet with the manager of Krug. As a result, the sound system in the rear of one buildings was shut off and two lights were adjusted. We did not get a timeline commitment to reduction of lighting. I did bring up the issue of cars being parked right up to the southeast fence line that abuts our subdivision's backyards(with no buffer). All that was promised was that Dan would tell his people that they should try not to park there. There was no promise of any other correction.

Without a buffer in that area, car sounds, horns, fumes as well as truck noises and sounds carry into our small yards and bedroom windows.

The same holds true for the area that was clear cut behind the proposed oil change site. One homeowner said his wife asked the people cutting the field to leave a line of trees in place. That appears to be the only reason that particular single line of trees was preserved.

It is important to create more of a buffer than what we have. And it appears, to me, that this will only happen if it is required in accordance with our township guidelines.

thank you. I hope my input into this matter is heard even though I cannot make it to the meeting.

Sincerely, Patricia J. Murphy 409 Ventnor Howell Mi 48843. Jenny Carrender 369 Chalmers Ln Howell, MI 48843 jenny.carrender@kroger.com April 17, 2012

Genoa Township Board of Trustees c/o Mr. Michael Archinal 2911 Dorr Rd Brighton, MI 48116

Dear Genoa Township Board of Trustees:

Thank you for the opportunity to address the Board at the Genoa Township Board of Trustees meeting April 16, 2012. I felt my concerns were heard and feel there was a sincere appreciation for the residents of Chilson Hills Subdivision. However, I do have further concerns that I wish to express prior to the next meeting on May 7, 2012.

As I spoke at the April 16, 2012 meeting, I am not against the Krug project. I am glad their business is thriving and they have the ability to expand again (showroom expansion took place last year I believe). However, I do request a balance and reverence for the residential neighbors. I understand there wasn't a residential subdivision when Krug was first built, but as the business expands it should be held to the standards of other commercial properties that border residential property. I would appreciate for Krug to be held to ordinance standards outlined by the Township (or the standards recommended by the Planning Commission). Below are some personal observations that I wish be taken into consideration upon your reflection and assessment.

#### > Suggestion of Providing Trees to Residents

Since this commercial property is currently (or will be once the parcels are merged) out of compliance with the zoning ordinance, I don't feel it's proper to possibly ask the residents to compromise their property by planting trees because the commercial property owners don't want to make modifications on their own property. The solution for the ordinance should be addressed by the applicant, on their property. Furthermore, on March 27, 2012 (note this is prior to the board meeting), I had a State of Michigan certified Arborist come to my property for a consultation. I inquired about planting evergreen trees on my property. She did point out that my back yard does have a lot of shade and for the evergreen trees to thrive; I would need to thin out some of my 20+ trees (including a mature Red Oak and several Hickory). However, the removal of canopy trees would significantly impact the shade I currently enjoy on my property.

Genoa Township Board of Trustees April 17, 2012 Page 2

> Proven Need for a Buffer Zone

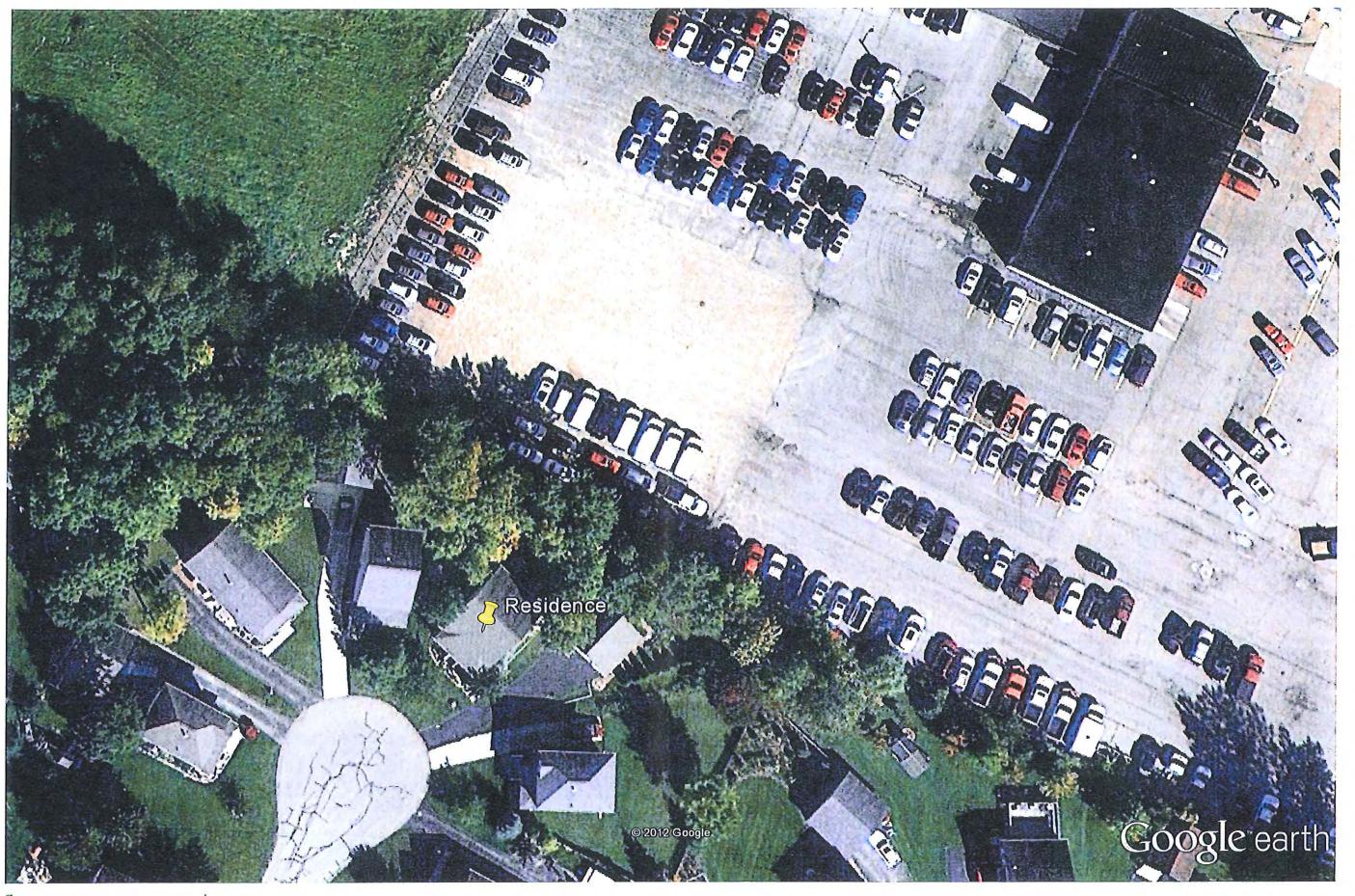
- As previously stated at the April 16, 2012 meeting, there is also an issue with Krug's snowplow plowing snow into a section of my privacy fence (since there is no current buffer zone). In the past, this plowing has caused privacy fence panels to fall over. When I called Krug with concerns, they did come and re-attach the panels to the posts. However, the plowing continues to go up against my privacy fence (in the same area on the east side of my property). There is irreversible damage to at least 3 posts. I plan to have the posts replaced this summer. I am concerned about the possibility of additional snowplow damage next winter with the absence of a buffer zone.
- At the April 16, 2012 meeting, a board member pointed out that I chose to live behind a car dealership. This is a fact; however, not having ever lived behind a dealership in the past, I didn't realize the only inventory control system they have is a car horn. Krug associates will allow a horn to honk until they locate the car. Moreover, at the April 16, 2012 meeting, the Krug representative stated that the vehicles parked at the south of their lot are mostly employee cars or cars waiting to be picked up. However, behind my home is one or two rows of (what appear to be new) cars with a large gap and then more cars. The gap is used for vehicle delivery. There is a semi-truck parked there several times a week. The semi-truck engine runs and vehicles are unloaded (or loaded in some cases). I understand deliveries are an essential part of business. However, the car horn honking is not a necessity of business. Using the horn to locate cars exemplifies a total disregard for their residential neighbors. A proper buffer zone would help suppress these noises; both the validated and the senseless.

Again, I appreciate the opportunity to express my concerns. I look forward to working collectively on an amicable solution for both the commercial property owner as well as the residential property owners.

Sincerely,

Jenny Carrender





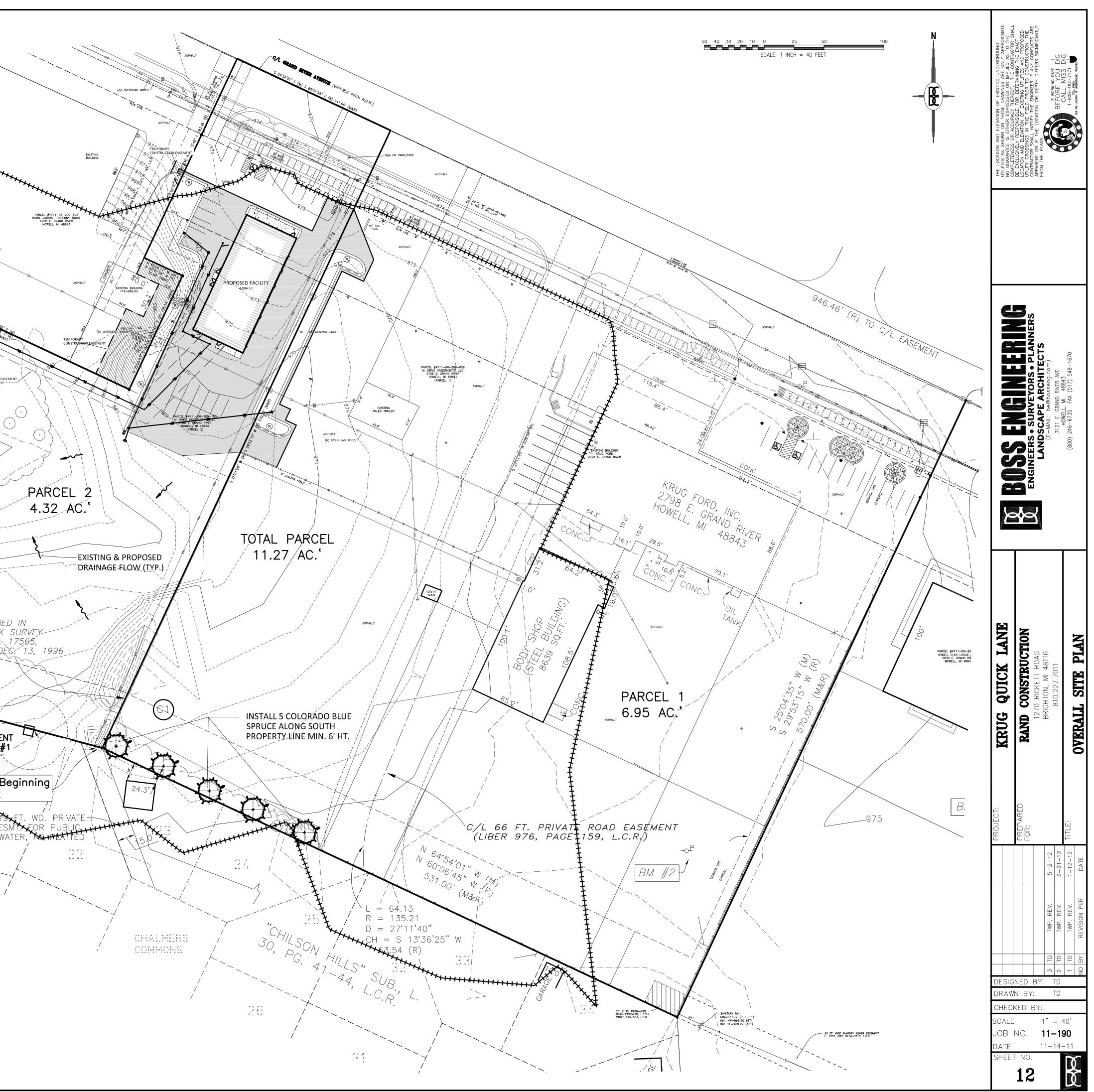
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2911 Dorr Road Brighton, MI 48116 810.227.5225 810.227.3420 fax genoa.org

#### SUPERVISOR

Gary T. McCririe

CLERK

Paulette A. Skolarus

**TREASURER** Robin L. Hunt

KODIN L. HUIII

MANAGER Michael C. Archinal

#### TRUSTEES

H. James Mortensen Jean W. Ledford Todd W. Smith Steven Wildman

### MEMORANDUM

то:	Honorable Board of Trustees		
FROM:	Kelly VanMarter, Planning Director		
DATE:	April 13, 2012		
RE:	Krug Quick Lane – Site Plan/Special Land Use		

I have reviewed the revised site plan (dated 4/4/12), Environmental Impact Assessment (dated 4/4/12), and Spill Prevention Control and Countermeasure Plan (dated 3/16/12) proposing development of a new Krug Quick Lane automotive service facility located at 2798 E. Grand River, Howell. My review of the revised submittal was focused on compliance with the outstanding items discussed at the March 12, 2012 Planning Commission meeting at which this item was recommended for approval.

The PC required that the applicant meet with the adjacent homeowners association (Chilson Hills) to address the concerns of their letter dated March 12, 2012. I spoke with the secretary of the Association and she indicated that the meeting did occur and Krug has taken the following action:

- Two lights have been directed away from the homes;

- An announcement speaker impacting the residential has been removed. The only outstanding item of concern for the homeowners is the establishment of a landscaped buffer along the shared property line. The PC requested that the applicant work with the Township to create a buffering plan along the south side of the site. The applicant has not contacted me regarding this requirement therefore I would like to make the following recommendation to the Township Board:

Ordinance	Existing		
Requirement	East Side	West Side	Staff Recommendation
• 50' Buffer Zone	• 0' Buffer	<ul> <li>250+' Buffer</li> </ul>	Year 1 (2012) - Install 20' buffer
• 6' wall or 4'	• 6' Fence	<ul> <li>No wall or berm</li> </ul>	along the east side of the south
berm		<ul> <li>Existing</li> </ul>	property line adjacent to the
<ul> <li>53 Canopy Trees</li> </ul>	<ul> <li>No trees or</li> </ul>	landscaping	existing fence.
• 106 Evergreen	shrubs	includes	Years 2+ - Install 4 evergreen trees
Trees		multiple canopy	per year along the south property
• 212 Shrubs		trees and scrub	line moving from east to west until
		shrubs	the Ordinance requirement for
			evergreen trees are met.

April 13, 2012 Board of Trustees Krug Quick Lane Site Plan & Special Land Use Page 2

In consideration of the aforementioned, I recommend the following action in this regard:

**<u>Recommendation of Special Use Permit</u>**: I recommend <u>approval</u> of the Special Land Use Permit with the following conditions:

- 1.) Parcels 4711-06-200-058 and 4711-06-200-103 will be combined into one parcel.
- 2.) The petitioner shall work with the Township Planning Director to develop a buffering plan along the south side of the combined parcels.
  - As stated above, I recommend the Board consider the following course of action in regard to this requirement:
    - This plan shall include the establishment of a 20 feet wide (20') greenbelt in the first year (2012) with the addition of 4 evergreen trees per year beginning in year 2013. The evergreen trees shall be planted with 2 trees per each 20 linear feet along the property line placed from east to west. Tree plantings shall continue until the ordinance requirement for evergreen trees along the south line is met.
- 3.) This Special Land Use is approved because it has been found to comply with the requirements of Sections 19.03 and 7.02.02(k) of the Township Zoning Ordinance.

Recommendation of Impact assessment (dated 04-04-12): I recommend approval of

the impact assessment with the following conditions:

- 1.) The Spill Prevention Control and Countermeasure Plan is included in the approval.
- 2.) The petitioner shall document the retrofits to the existing light fixtures as stated in Item E so that the Township can verify this item is complied with.

**<u>Recommendation of Site Plan (dated 04-04-12)</u>:** I recommend <u>approval</u> of the site plan with the following conditions:

- 1.) The Buffering Plan as required by condition of Special Land Use approval shall be submitted prior to issuance of the Land Use Permit.
- 2.) The proposed lighting shall meet the Township Ordinance. Additional lighting shall not be installed on the building if the location exceeds current ordinance footcandle standards.
- 3.) Additional detail shall be provided on the plans regarding the banked dumpster location to ensure fit and function.
- 4.) The petitioner shall satisfy the requirements of the Township Engineer prior to issuance of a Land Use Permit. This will include providing a Storm Water Easement in recordable form prior to issuance of a Land Use Permit.

Should you have any questions concerning this matter, please do not hesitate to contact me.

#### GENOA CHARTER TOWNSHIP PLANNING COMMISSION PUBLIC HEARING MARCH 12, 2012 6:30 P.M.

#### **MINUTES**

<u>CALL TO ORDER</u>: The meeting of the Genoa Charter Township planning Commission was called to order at 6:31 p.m. Present constituting a quorum were Barbara Figurski, Chairman Doug Brown, John McManus, Lauren Brookins, and Diana Lowe. Also present were Township Planner Kelly VanMarter and Brian Borden of LSL.

PLEDGE OF ALLEGIANCE: The Pledge of Allegiance was recited.

<u>APPROVAL OF AGENDA:</u> Upon motion by Barbara Figurski and support by John McManus, the agenda was approved as submitted. **Motion carried unanimously.** 

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

OPEN PUBLIC HEARING # 1... Review of special use application, impact assessment and site plan for a proposed 4,894 sq.ft. oil change facility located at 2798 E. Grand River, Howell. Sec. 6., petitioned by M. Krug Investments.

Dan Retherford of Krug Ford, Andy Klein of Rand Construction, and Brent LaVanway of Boss Engineering addressed the Planning Commission regarding the petition.

Mr. Klein presented the proposed building materials to the Planning Commission and gave a rough overview of the proposed building's exterior.

Brian Borden of LSL reviewed his letter dated March 6, 2012. The property in question is actually two contiguous parcels. The zoning ordinance and use requirements have a minimum frontage requirement for this type of use. This parcel does not meet that requirement alone, but when joined with the other parcel it does. Mr. Borden suggested that the applicant is willing to join those two parcels.

The zoning and buffer requirement for this parcel has a substantial setback. The vegetation there is mature and mostly deciduous. The applicant is seeking that the existing vegetation be retained. The petitioner admits there is no buffer

#### 3-12-12 APPROVED PC minutes.

between the fence and where the cars are parked. Some of these are new vehicle, some used, and some employee vehicles.

Chairman Brown discussed the letter received from Chilson Hills Homeowners Association today. The petitioner agreed to review the letter and whether they would be willing to install a buffer zone to assist with noise control. The petitioner indicated that the berm was knocked down because of lot theft. The petitioner asked if the buffer would alleviate the issue with lighting and exhaust fumes. Chairman Brown indicated that he felt it may. The petitioner also indicated a willingness to meet with some representatives of Chilson Hills Homeowners Association to work out a mutually agreeable plan. Ms. Murphy from the Association was present and indicated that if Mr. Retherford met with their Board, it would be helpful.

The petitioner responded to some of the other issues listed in the Chilson Hills letter of March 12, 2012. He feels that the issues regarding parking and the Quick Lane oil change aren't realistic. The oil change cars would not be left overnight. Noise control and pollution would not be increased because the vehicles would not be near the back of the lot.

Brian Borden indicated that the building is encroaching onto the setback. The applicant has acknowledged this and plans to address it before the ZBA. He also addressed the parking and how it encroaches into the required setback. The petitioner will provide the documentation in the impact statement.

Brian Borden addressed the proposed materials for the building. The parking lot is on three sides of the building pursuant to the drawings. The material requirements are met on the front side of the building. The west side and rear of the building do not meet the material restrictions. The ordinance requires architectural detail and/or design features. Chairman Brown and the Planning Commission did not voice any objections to the plan as submitted as it relates to the building materials proposed.

The proposed loading zone was discussed. It is deficient in size by approximately three feet. The Planning Commission has the authority to modify that requirement. The petitioner indicated that the overhead wires were taken into account when determining the size. The Planning Commission is willing to allow the current size to remain.

The greenbelt plantings are insufficient due to parking and the sidewalk on the north side. There is room to do a hedgerow and the petitioner is proposing to install one. This must be cleared with MDOT prior to installing it. Brent LaVanway from Boss Engineering indicated that the shrubs are the only reason for contacting MDOT and therefore, he does not believe this needs to be done. He was concerned that MDOT will require more changes to be made to parking, etc. The Planning Commission suggests that the petitioner contact MDOT.

#### 3-12-12 APPROVED PC minutes.

Waste receptacles were addressed. No proposed enclosure is on the plan. The applicant claims it is shared with existing receptacles on the dealership portion of the property. These are currently located at the southeast corner of the property.

Lighting was discussed by Brian Borden. The petitioner is willing to install lower wattage bulbs as the current bulbs burn out in an effort to lessen the light that is created on this site. The petitioner will explore this prior to meeting with the Chilson Hills Board. The petitioner will look into which light is shining into a home and will take steps to correct that.

The second wall sign request was addressed. This is discretionary. The petitioner believes that the view from the west is not clear and therefore, they would request an additional sign on that side. This is standard signage from Ford. The total square footage is less than what is permitted for the first sign. They will add this to the environmental impact statement.

Tesha Humphriss reviewed the February 28, 2012 letter from Tetra Tech. As it relates to storm water, a full site plan approval could be done or nothing could be done. The argument to review the entire site is that this is a substantial change to the site and they are changing the impervious area and changing the pipes. Alternately, the argument to do nothing is that they are decreasing the impervious area and there is no evidence of flooding. She believes the petitioner should do the existing calculations for the pond and bring it to current standards. She feels this is a compromise that both sides could live with. She addressed the proposed outlet of the storm sewage and water pipe. The water needs to be dissipated and slowed down. A sedimentation basin or something to slow the water should be installed at the pond. The petitioner agreed to do that. The proposed sanitary sewage system lead was discussed. The petitioner indicated the specifics of that would be provided during construction plan reviews.

Brent LaVanway from Boss Engineering agreed to provide the calculations for the basin that Tesha Humphriss needs. The petitioner will provide documentation of what they plan to do for storm water drainage. They will add it to the construction detail plans. The petitioner has not provided the profile views regarding utilities to the Township yet. They will do so within the construction details. The Township Engineer would prefer to see all of these on the site plan.

The Brighton Fire Department letter of March 2, 2012 indicates that their concerns have all been addressed.

The impact assessment was reviewed. Most of the concerns of the Planning Commission were addressed earlier this evening. The petitioner should delete the portion of E that discusses Genoa Township's site plan review process controlling fumes, vibration and smoke. 3-12-12 APPROVED PC minutes.

The PIP should be changed to reflect Livingston County Sheriff Department and Brighton Fire Department.

The self certification will be signed and submitted to the Township.

Ms. Murphy of Chilson Hills addressed the Planning Commission. She expressed hopes that the issues of noises, lighting and fumes are seriously considered and addressed by the Planning Commission.

#### Planning Commission disposition of petition

- A. Recommendation of Special Use Application.
- B. Recommendation of Impact Assessment dated 2-21-12.
- C. Recommendation of Site Plan dated 2-21-12.

**Motion** by Diana Lowe to recommend the approval of the special use application subject to:

- 1. Approval of the impact assessment and site plan;
- 2. Compliance with the Brighton Area Fire Department letters of 11/29/2011 and 3/2/2012;
- 3. ZBA approval of the front setback variance;
- 4. The petitioner combines the two existing lots;
- 5. Compliance with article 19.03.

Support by Barbara Figurski. Motion carried unanimously.

**Motion** by Barbara Figurski to recommend approval of the impact assessment, subject to:

- 1. The PIP plan dated 3/1/12 is to be attached with the corrections as noted;
- 2. Approval of the special use application.

Support by Diana Lowe. Motion carried unanimously.

Motion by Diana Lowe to recommend approval of the site plan, subject to:

- 1. Approval of the special use application and impact assessment;
- 2. The petitioner is going to work with the Township to develop a buffering plan on the south side of the site;
- 3. Modification of the loading area;
- 4. Additional sign due to visibility;
- 5. Applicant will work with MDOT at their discretion regarding the shrubbery row;
- 6. The lighting for the Quick Lane facility will meet the zoning ordinance;

- 7. Agreement by the petitioner to "bank" property that may be used in the future for a dumpster;
- 8. The petitioner will work with the homeowners association to reduce current candle power of current site as the bulbs need to be replaced;
- 9. The petitioner will adjust the lighting that is shining directly into a residential home;
- 10. The petitioner obtains a variance from the ZBA;
- 11. That construction details are put on the site plan;
- 12. That the petitioner comply with the Tetra Tech letter. Under drainage and grading #1, petitioner to complete calculations to determine the necessary land to restrict for future storm water detention and conveyance in the form of a recordable easement. Under #2, they will provide a method for dissipation of water. Under #4, they will provide a swale to direct water away from the existing shed; and
- 13. The petitioner adheres to 24.10 regarding parking.

Support by Barbara Figurski. Motion carried unanimously.

#### Administrative Business:

- Staff report. Kelly VanMarter updated the Planning Commission as to possible agenda items for the April meeting.
- Approval of February 13, 2012 Planning Commission meeting minutes. Barbara Figurski. Support by John McManus. Motion carried unanimously.
- Member Discussion

Adjournment. Motion by John McManus to adjourn the meeting. Support by Barbara Figurski. Motion carried unanimously. Motion adjourned at 8:35 p.m.

Kristi Cox

#### APPLICATION FOR SPECIAL LAND USE genoa township

APPLICANT NAME\* & ADDRESS: M. Krug Investments L.L.C.

OWNER NAME\* & ADDRESS: 2798 E. Grand River Ave., Howell

SITE ADDRESS: Same

APPLICANT PHONE: (517) 546-0244

\_\_\_\_\_OWNER PHONE: (\_\_\_\_)

\_\_\_\_\_PARCEL #(s): 4711-06-200-103

Location and brief description of site and surroundings:

The area of the proposed development is a automobile dealership vehicle display area. To the east is the existing dealership showroom and vehicle maintenance facility and to the west is a commercial strip center.

Proposed Use: Minor vehicle maintenance.

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.

Because the site is currently vehicle sales and service related, with the minor vehicle maintenance taking place in the existing facility, the new facility will fit into the current use.

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 architectural and site design have been created to tie into the existing facility.

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 facility has access onto Grand River. The site once constructed will reduce the amount of impervious surface on the property. Because of the use the facility will have little impact on the public utilities.

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?

The storage and disposal of vehicle fluids will be in compliance with local, state and federal requirements.

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.

Sec. 3.03.02 - Nothing. S	ec. 7.02.02 -	All work will ta	ke place within	the building i	n accordance with	local, state
and federal requirements.	Sec. 8.02.02	- Nothing.				

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 BELIEF. 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 OF THIS PERMIT.

\_\_\_\_\_

I

Mether to an THE UNDERSIGNED STATES THAT THEY ARE THE FREE OWNER\* OF THE PROPERTY OF PROPERTIES DESCRIBED ABOVE AND MAKES APPLICATION FOR THIS SPECIAL LAND USE PERMIT.

Incola 1 -Vug 0 BY:

ADDRESS: 2798 E. Grand River Ave., Howell

\*Submit a letter of Authorization from Property Owner if application is signed by Acting Agent.

Contact Information - Review Letters and Correspondence shall be forwarded to the following:						
1) Mike Kong	of Kons	Ford- London	at (517) 546-5692			
Name		Business Affiliation	Fax No.			

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

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:       11       10       2011         PRINT NAME:       Dan       Mether ford       PHONE: 517-546-0244
ADDRESS: 2798 E. Grand River Ave., Howell

CENCA TOWNSHIP

#### GENOA TOWNSHIP APPLICATION FOR SITE PLAN REVIEW

NOV 1 8 2011

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

APPLICANT NAME & ADDRESS\*: <u>M.</u> Krug Investments L.L.C.

OWNER'S NAME & ADDRESS: 2798 E. Grand River Ave., Howell

PARCEL #(s): 4711-06-200-103 SITE ADDRESS: Same

APPLICANT PHONE: (517) 546-0244 OWNER PHONE: (\_\_\_\_)

LOCATION AND BRIEF DESCRIPTION OF SITE: Existing Ford, Lincoln Mercury Dealership on Grand River Ave. in Howell

BRIEF STATEMENT OF PROPOSED USE: Service Center for vehicle maintenance including oil changes, fluid level and filter check and replacements.

THE FOLLOWING BUILDINGS ARE PROPOSED: Oil Change facility with six service bays and a customer waiting area.

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. Ford - Loncola

BY:

ADDRESS: 2798 E. Grand River Ave., Howell

lung

\* If applicant is not the owner, a letter of Authorization from Property Owner is needed.

Contact Information - Review Letters and Correspondence shall be forwarded to the following:

1.) Thom Dumond ofBoss Engineering at (517) 548-1670 **Business** Affiliation Name Fax No.

Cheryl A. Williams Chilson Hills Homeowners Association c/o Pinnacle Condominium Management 2320 Washtenaw Ave., Suite 200 Ann Arbor, MI 48104 March 12, 2012

Kelly Van Marter Planning Director Genoa Charter Township 2911 Dorr Rd Brighton, MI 48116

Planning Commission:

I am writing on behalf of the board and residents of the Chilson Hills Homeowners Association regarding the Special Land Use Permit being requested by M. Krug Investments, LLC. A number of our residents have expressed concerns to the board of the homeowners association about the proposed oil change facility, and I would like to present these here on behalf of the neighborhood.

Three of the streets in our neighborhood abut the Krug property (Springwell, Chalmers, and Ventnor), and residents at the ends of these streets already deal with light pollution, noise, and exhaust fumes. We are concerned about the impact of an additional facility with a potential 660 additional vehicles per day (see section I of the Impact Assessment dated 02/12/12). The following are areas of particular concern:

#### Noise control

There is very little in the way of a noise barrier between the proposed facility and the Chilson Hills neighborhood. Although there is a field located along the southwestern portion of the property that originally provided a small buffer for some of the homes when the neighborhood was built 15 years ago, this field was clear-cut in 2010 and 2011 and whatever noise barrier the trees and brush provided has been significantly reduced. In addition, this does not span the width of the property. In talking to homeowners in the neighborhood, we heard complaints about noise from the existing facility (such as employees using the panic button to locate cars parked at the rear of the property, leaving the phone/loudspeaker on after business hours), so we are greatly concerned about additional noise creating a livability concern for our neighborhood.

We would like to request that Krug erect and maintain some sort of screening/landscaping to separate the Chilson Hills neighborhood from the new building. One way to do this would be for Krug to plant and maintain a row of deciduous trees (pines, spruces, etc.) along the south side of the property, along the pavement indicated in the site plan, to help buffer noise from the houses located on Springwell, Chalmers, and Ventnor. Homeowners in the western portion of our subdivision have also requested that the field be allowed to return to its natural state to provide additional separation from the proposed building.

We also would like to request that Krug be required to keep the service bay doors shut during work to help mitigate additional noise.

#### **Lighting**

Section E of the Impact Assessment notes that:

Much of the site will be illuminated by the existing light fixtures on the site. Several of the existing fixtures will be removed or relocated to make room for the new facility. Wall mounted fixtures will be added to the building to supplement the existing lighting.

Kelly Van Marter March 12, 2012 Page 2

The existing lighting on the site is problematic for homes in our neighborhood. We appreciate the need to maintain a safe, well-lit environment; however, at least one of the fixtures is currently mis-aimed so that it illuminates horizontally, directly into a house on Chalmers. Given the current lighting situation, we would like to request that special attention be paid when lighting the new facility to minimize light intrusion into the homes in our neighborhood while maintaining a secure environment for the dealership / oil change facility. This may require working with the adjoining homeowners to determine the best lighting configuration.

#### **Exhaust fumes**

The impact assessment acknowledges that one impact of this proposed facility is exhaust emissions from an increased number of vehicles. Homeowners of neighboring homes have remarked that from time to time, exhaust fumes have been noticeable from the current body shop. Given the current situation and that the proposal seeks to increase traffic by ~660 vehicles/day, we would like to register a particular interest in how "nuisances such as fumes, vibration, and smoke" will be "controlled through Genoa Township's site plan review process" and are specifically interested in why it was stated further that "[n]one of these concerns will be associated with the proposed facility" (Section E, Impact Assessment).

We'd like to be as good neighbors as possible to the Krug dealership, and we would like Krug to return the favor and help us maintain a quiet, livable neighborhood without adversely affecting our quality of life or property values.

We appreciate the Planning Commission taking our concerns into consideration as you consider the Special Land Use Request for the new building.

Sincerely,

Cheryl A. Williams secretary@chilsonhillsHOA.org 2012 Secretary, Chilson Hills Homeowners Association

#### Tenpenny Furniture 2700 E. Grand River Ave. Howell, MI 48843

March 12, 2012

Genoa Township Planning Commission 2911 Dorr Road Brighton, MI 48116

RE: Krug Quick Lane, Genoa Township, Livingston County

Dear Planning Commission members,

This letter is in response to the proposed Krug Quick Lane facility located adjacent to my property on Grand River Avenue. After reviewing the plans and building elevations, I approve of and endorse the project. I believe the design of the building will enhance the area and provide a needed service for the community.

Sincerely,

Jun Cm

Mr. John Tenpenny



# MEMORANDUM

2911 Dorr Road	TO:	Andy Klein, Rand Construction
Brighton, MI 48116	FROM:	Kelly VanMarter, Planning Director
810.227.5225		Kelly Valimatel, Flamming Director
810.227.3420 fax	DATE:	October 11, 2011
genoa.org	RE:	Krug Oil Change – 4711-06-200-103 (vacant Grand River)

In regards to the above mentioned, the tap fees will be as follows:

Assuming a 4,600 sq. ft. oil change facility with 6 service bays:

1 REU per premise plus 0.15 per stall:

New Connection Charge

Water	2 REU @	\$10,000
Sewer	2 REU @	\$11,000

**Total Amount Due:** 

\$21,000

2 REUs

#### Connection Fees must be paid at time of land use permit issuance.

A meter package will also need to be purchased including the appropriate sized meter and a MIU (meter interface unit) prior to land use permit issuance. I trust this satisfies your request. Should you have any questions please feel free to contact me at 227-5225.

SUPERVISOR

Gary T. McCririe

#### CLERK

Paulette A. Skolarus

#### TREASURER

Robin L. Hunt

#### TRUSTEES

H. James Mortensen Jean W. Ledford Todd W. Smith Steven Wildman

MANAGER

Michael C. Archinal



LSL Planning, Inc.

Community Planning Consultants

March 6, 2012

Planning Commission Genoa Township 2911 Dorr Road Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP
	Planning Director
Subject:	Krug Quick Lane – Special Use and Site Plan Review #2
Location:	2798 E. Grand River – south side of Grand River, east of Chilson Road
Zoning:	GCD General Commercial District
Applicant:	M. Krug Investments LLC
	2798 E. Grand River Avenue
L	Howell, MI

Dear Commissioners:

At the Township's request, we have reviewed the revised site plan (dated 2/21/12) proposing development of a new minor auto repair establishment within the Krug Ford/Lincoln-Mercury site. The site is located on the south side of E. Grand River and is zoned GCD General Commercial District. The request has been reviewed in accordance with the Genoa Township Master Plan and Zoning Ordinance.

#### A. Summary

- 1. We recommend the Township include a condition requiring the applicant to combine the two parcels related to this request.
- 2. The Commission may require a berm or screen fencing to protect the adjacent residential properties to the south, or could deem the existing setback and vegetation sufficient to protect these residences.
- 3. The proposed building placement requires a front yard setback variance.
- 4. The applicant must demonstrate that the requirements of Section 24.10 are met with respect to the front yard parking encroachment.
- 5. The Planning Commission has approval authority over building elevations. In our opinion, the proposed elevations do not comply with the material and design requirements of Section 12.01.
- 6. The proposed loading area is slightly deficient in terms of its size; however, the Commission may modify the requirement.
- 7. The landscape plan is deficient in terms of greenbelt plantings; however, there is insufficient are to plant the required trees and the Commission may modify the requirement. MDOT approval is likely needed for any plantings within the right-of-way.
- 8. We recommend the applicant provide details of the existing dumpster to confirm compliance. If current standards are not met, we recommend the Township require improvements.
- 9. We recommend the Township require improvements to site lighting, such that it is more, if not fully compliant.
- 10. Planning Commission approval is required for the second wall sign.

#### B. Proposal

The applicant requests special use and site plan approval for development of a new "service center for vehicle maintenance including oil changes, fluid level and filter check and replacements" within the Krug dealership complex. This includes a new 4,894 square foot, 1-story building.

By definition, the proposed use is a minor auto repair establishment, which is allowed as a special land use in the GCD. The use is also subject to the specific requirements of Section 7.02.02(k). It is important to note that a request for a new special land use on a developed property provides the Township with an opportunity to require improvements to non-compliant site conditions.

#### C. Special Use Review

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

1. Master Plan. The Master Plan and Future Land Use Map identify the site and adjacent properties along Grand River Avenue as General Commercial. The properties to the south are planned for Medium Density Residential (5 units per acre).

The General Commercial classification includes "businesses which serve the requirements of the community at large including Genoa Township, Howell, Brighton, and pass-by traffic along Grand River Avenue."

The site is already developed with an automobile related use and the addition of a maintenance and minor repair facility is expected to complement the established use and planned character of the area.

2. Compatibility. As noted above, the proposed use will be part of a larger automobile dealership complex and is expected to complement the established use, as well as the commercial character along Grand River Avenue.

Our only potential concern under this standard would be any impacts upon the residential properties south of site. The Zoning Ordinance requires screening between commercial and residential uses; however, the proposed layout provides a 355-foot setback and there is existing dense vegetation between the properties. Despite the separation and vegetation between these uses, the excessive light intensity (described in Section E of this letter) could also have an impact upon these residences.

- **3. Public Facilities and Services.** The site is located on Grand River Avenue amongst already developed properties. As such, it is expected that necessary facilities and services are in place to properly serve the proposed development. With that being said, the applicant must address any issues identified by the Township Engineer.
- 4. Impacts. As a site that is currently paved and used for automobile storage, impacts upon the environment and natural features are not anticipated by its general development. Additionally, given the nature of the proposed use, the applicant has provided a Pollution Incidence Prevention (PIP) Plan as required by Section 7.02.02(k).
- 5. Mitigation. The Township may require mitigation necessary to limit or alleviate any potential adverse impacts as a result of the proposed activities.

#### D. Review of Use Requirements

Section 7.02.02(k) of the Zoning Ordinance identifies the following use requirements for minor auto repair establishments. As a side note, we have only applied those requirements applicable to this request. (Standards 2, 8, 9, 10, 12 and 13 are specific to gasoline service stations.)

# 1. There shall be a minimum lot area of one (1) acre and minimum lot frontage of two hundred fifty (250) feet.

The Krug Dealership complex is currently situated on two separate parcels. On its own, Parcel 2 (subject site) does not meet the frontage requirement; however, on the cover sheet, the applicant states that the two parcels will be combined.

The resulting property will contain 11.27 acres and approximately 670 feet of frontage along Grand River. Since the combination is necessary for compliance, we recommend the Township include this item as a condition of approval.

3. Access driveways shall meet the standards of Article 15; turning movements may be restricted in consideration of traffic conditions. Only one driveway shall be permitted from each street unless the Planning Commission determines additional driveways will be consistent with the purpose of Article 15.

The full dealership property maintains three existing drives, one of which is shared with the adjacent property to the west. The site plan notes there is a recorded easement for the shared drive and no new curb cuts are proposed. Provided the Township Engineer concurs, we are of the opinion this criterion is met without the need for further restrictions given the size and layout of the dealership property.

# 4. Where adjoining residentially zoned or used property, a solid fence or wall six (6) feet in height shall be erected along any common lot line. Such fence or wall shall be continuously maintained in good condition. The Planning Commission may approve a landscaped berm as an alternative.

The site is adjacent to residential property along its southerly lot line (rear). However, the proposed building provides a 355-foot rear yard setback and the pavement ends approximately 250-plus feet from the rear lot line. Additionally, there is existing dense vegetation screening the residential land uses and the applicant states that this "buffer" area will be preserved.

The Commission may require the fence or berm noted, or could deem existing conditions (setback and landscaping) sufficient in terms of protecting the residential properties from adverse impacts. Although there is no waiver/modification listed for this criterion, the Commission generally has some amount of discretion over landscaping and screening requirements, especially given the presence of existing vegetation.

- 5. All repair work shall be conducted completely within an enclosed building. Garage doors shall not face any public roadway except as approved by the Planning Commission under the following circumstances:
  - a. For through garages where doors are provided on the front and rear of the building;
  - b. Garages located on corner or through lots; and,
  - c. Where the Planning Commission determines that a rear garage would have a negative impact on an abutting residential district.

# Under these circumstances the Planning Commission may require additional landscape screening above and beyond what is required for street frontage landscaping.

The applicant has included a note on Sheet 3 stating that all work will be conducted inside the building. Additionally, all overhead doors are on the east side of the building, which does not face the roadway.

6. There shall be no outdoor storage or display of vehicle components and parts, supplies, or equipment or other merchandise, except within an area defined on the site plan approved by the Planning Commission and which extends no more than ten (10) feet beyond the building.

The applicant has included a note on Sheet 3 stating that no outdoor storage is proposed.

7. Storage of wrecked, partially dismantled, or other derelict vehicles is prohibited, unless such storage is required under police or court order. Vehicles shall not be stored outdoors for more than seven (7) days in any thirty (30) day period.

The applicant has included a note on Sheet 3 stating that no such vehicles will be stored on site.

# 11. The applicant shall submit a Pollution Incidence Protection Plan (PIPP) as part of the Impact Assessment. The PIPP shall describe measures to prevent groundwater contamination caused by accidental gasoline spills or leakage, such as: special check valves, drain back catch basins and automatic shut off valves.

The revised submittal includes the required PIP Plan (dated 3/1/12). The PIP Plan and a note on Sheet 3 of the site plan indicate that all fluids (new and waste) will be stored inside and that storage and disposal of these fluids will meet all local, state and federal requirements. The Commission should consider any comments provided on the PIP Plan by the Fire Department. Our only minor comment is that Section 2.2 should be revised to note that the site is in Genoa Township, as opposed to the City of Howell.

#### E. Site Plan Review

1. **Dimensional Requirements.** As shown in the table below, the site plan has been reviewed for compliance with the dimensional standards of the GCD:

	Lot Size		Minimum Setbacks (feet)				Max.	
District	Lot Area (acres)	Width (feet)	Front Yard	Side Yard	Rear Yard	Parking	Height (feet)	Lot Coverage
GCD	1	150	70	15	50	20 front 10 side/rear	35	35% building 75% impervious
Proposed	11.27	Approx 670	44.97	30 (E) 27 (W)	355	Front encroaches into r-o-w 285 rear	19.3	1% building 7% impervious

The dimensional deficiencies relate to the front yard setbacks – both building and parking. In response, the applicant states that they will seek a variance for the building setback and notes that the parking encroachment is an existing condition. The applicant must demonstrate that the standards of Section 24.10 are met as it relates to the front yard parking encroachment. If met, this may be considered a nonconforming condition that does not require a variance.

2. Building Materials and Design. The elevation drawings propose a combination of brick, block and glass as the primary building materials. Table 12.01.03 identifies the maximum percentages allowed for certain materials on building façades facing a street or parking lot. The front façade (facing Grand River) is comprised of brick and glass, which complies with requirements. The west and south façades are constructed almost entirely of block, which exceeds the maximum percentage allowed as these elevations face parking lots.

Additionally, Section 12.01.06 requires buildings to provide architectural features that are not present on this flat roof building. As such, we recommend the applicant upgrade the building materials and design in accordance with Section 12.01 of the Township Zoning Ordinance. Ultimately, the proposed elevations, including colors and materials, are subject to review and approval by the Planning Commission.

- **3. Parking.** Section 14.04 requires 2 parking spaces per service bay plus 1 space for each employee. Based upon the information provided, the project requires a total of 20 parking spaces, while 25 are provided. The plan includes 1 barrier free space, which complies with the requirements of Section 14.05.
- 4. Loading. Given the size of the building, Section 14.08.08 requires 1 loading space, which is to be located in a rear or side yard not directly visible to a public street. The site plan identifies the required space along the rear of the building; however, it slightly smaller than required 10 x 46, as opposed to 10 x 50. The Commission may modify the 500 square foot requirement if the use will involve smaller delivery trucks the applicant states that the largest delivery truck will be 45 feet long.

Location	Requirements	Proposed	Comments
Front yard greenbelt (N)	4 canopy trees 20-foot width 2-foot tall hedgerow OR 3-foot tall masonry wall	0 canopy trees 3-foot width inside sidewalk 2-foot tall hedgerow (47 shrubs)	The current front yard parking encroaches into the r-o-w, although it is unclear how this occurred. Given the proposed layout, there is not sufficient room to plant the required canopy trees. Authorization is likely needed from MDOT for plantings in the r-o-w.
Buffer zone "C" (W)	17 canopy trees OR 17 evergreens OR 68 shrubs 10-foot width	7 canopy trees 40 shrubs 10-20-foot width	In compliance.
Parking	3 trees 250 s.f. of landscaped area	10 trees 20 shrubs 250+ s.f. of landscaped area	In compliance.

5. Landscaping. The following table is a summary of the landscaping required by Section 12.02:

On Sheet 6, there are 11 plantings towards the front of the property noted as "BV" that are likely the "CB" noted in the table. While this is a rather minor discrepancy, it needs to be corrected.

- 6. Waste Receptacle and Enclosure. The site plan includes a note that the proposed use will share an existing dumpster with the auto dealership; however, the submittal does not show its location or design. As such, we cannot confirm compliance. We recommend the applicant provide details of the existing receptacle and enclosure to confirm compliance. If current standards are not met, we recommend improvements be required.
- 7. Pedestrian and Vehicular Circulation. The plan includes a 7-foot wide concrete sidewalk along the front of the proposed building and also shows the existing 8-foot wide concrete sidewalk along Grand Rive Avenue. Our only concern is that the side entrance has doors very near the travel lane. In response, the applicant notes that bollards will be provided so as to avoid vehicular/pedestrian conflicts at this entry/exit point.

With respect to vehicular circulation, all drive aisles meet or exceed minimum dimensional standards.

8. Exterior Lighting. The lighting plan includes a mixture of existing and proposed light fixtures. This portion of the site provides 3 existing light poles, 1 relocated light pole and 11 new wall mounted fixtures. It should be noted that the existing poles are nonconforming due to their height – 27'-6" where only 20' is allowed because the site is adjacent to residential property. However, the new fixtures are full cutoff and downward directed fixtures, per requirements.

The photometric plan provides a substantial number of readings that are well in excess of the maximum intensity allowed by Ordinance. What is difficult is determining how much of a factor the existing lighting plays in some of these readings.

For example, there are readings along the building that exceed the 10-footcandle maximum. If this is due entirely to the proposed fixtures, then they are not permitted. However, if these readings are elevated because of the existing nonconforming lighting, then the Commission may allow their continuance.

Our main concern is the fact that many of the readings are double and even triple the maximum allowed, which is why we recommend the applicant improve site lighting such that it is more, if not fully compliant. The focus of this recommendation is on the oil change portion of the site and not necessarily for the entire dealership property (although that would be a substantial improvement). In response to our first review, the applicant stated concerns over the costs related to improving site lighting. As such, this topic will likely warrant further discussion with the Commission.

**9.** Signs. The elevation drawings identify two wall signs – one each on the north and east sides of the building. The business is limited to no more than one wall sign, unless the Planning Commission authorizes a second sign in accordance with footnote (2) of Table 16.1. In order to allow the second sign, the Commission would need to make a finding that the building requires additional visibility due to obstructed views or building orientation.

In terms of their size, we estimate the total sign area to be 75 square feet -48 square feet on the north side and 27 square feet on the east. While these numbers are only an estimate (the submittal does not provide calculations), the total is within the maximum area allowed by Article 16.

**10. Impact Assessment.** A revised Impact Assessment (2/21/12) is included with the submittal. In summary, the revised Assessment notes that the project is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic. Additionally, the project is not expected to generate sufficient traffic to warrant a traffic impact study.

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 <u>borden@lslplanning.com</u>.

Sincerely, LSL PLANNING, INC.

Brian V. Borden, AICP Senior Planner



February 28, 2012

Ms. Tesha Humphriss, P.E. Genoa Township 2911 Dorr Road Brighton, MI 48116

#### Re: Krug Quick Lane Site Plan Review – February 22, 2012 Response Boss Engineering

Dear Ms. Humphriss:

We have reviewed the revised site plan documents and the letter from Boss Engineering dated February 22, 2012 which was provided in response to the site plan review letter completed by Tetra Tech November 30, 2011 and offer the following additional comments. Only responses requiring further comment are included, all other responses were found to be acceptable by the reviewer.

#### GENERAL

1. The petitioner is showing a temporary grading easement for the adjacent property to the west of the site. If the intent is for any construction to take place outside of the owner's property, an easement agreement should be provided with the plan.

# Boss: A recorded easement will be provided to the Township prior to issuance of a land use permit.

TT comment: The petitioner did not respond to the concern about providing some type of grading solution to the drainage concern along the existing building. We recognize that it is not a large tributary area, but the storm water will run down the new slope and be trapped adjacent to the existing building. A swale needs to be constructed directing this runoff to the south away from the existing structure.

#### DRAINAGE AND GRADING

1. There is an existing retention basin located on the southwest corner of the property, which should be clearly shown on the drawings, along with the existing elevations, volume, and any details of existing structures. The petitioner states that the amount of impervious surface is reduced by approximately 2,600 square feet, so no additional storm water retention will be added as part of this project, if possible provide documentation from the original basin sizing calculations to verify that enough storage is provided.

Boss: The existing retention basin has been added to the new overall site plan sheet. The retention basin was constructed a number of years ago with the construction of the original Krug Ford Facility. Since this initial phase the retention requirements from the Drain Commission have changed. To bring this project into compliance would require the removal of many of the large trees and underbrush around the existing basin. This would

Ms. Tesha Humphriss, P.E. Genoa Township Krug Quick Lane Site Plan Review Response February 28, 2012 Page 2 of 3

# reduce the natural vegetative buffer which slows and filters the storm water flowing across the property.

TT comment: We recognize that the LCDC standards have changed since the original site plan was implemented. However, there are items in the new standards that should be implemented into this plan to improve the storm water management. Drainage calculations comparing the proposed design with the existing basin should be prepared, and then the extent of improvements can be better assessed. At a minimum the site would be enhanced by adding a sedimentation basin near the existing pavement. This could be sized to work in conjunction with the existing basin and being positioned near the existing pavement, not impact existing vegetation. It is possible that the combined size would meet the former standards while improving the quality of the storm water runoff. We suggest the petitioner review this approach and provide the requested calculations to support the design.

2. The plans show a small amount of rip rap at the proposed storm sewer end section. The impact assessment states that the current runoff gets to the basin by sheet flow and that existing vegetation filters out the sediment, will there be any sedimentation control measures taken at the end of the proposed piping?

#### Boss: A rip rap detail has been added to the plans.

TT comment: Rip rap alone will provide some energy dissipation, however the concentration of that sheet flow to a point source outfall will likely result in erosion between the proposed outfall and the retention basin. The petitioner should account for some type of extended energy dissipation features, such as a sedimentation basin, or shallow pool to spread out the eventual discharge. Again this sedimentation basin may provide the necessary retention volume needed to bring the site into current compliance with drainage standards.

4. There is an area of steep grading proposed along the west property line, in the area where the temporary grading easement is called out. The existing steep slope will be increased as a result of the proposed grading. The petitioner needs to have an agreement from the owner of the adjacent property to permanently modify the existing grade. All proposed grading shall result in positive drainage in the direction of the existing drainage course, and not impact any existing structures. The petitioner should look into constructing a retaining wall in that area considering the existing slope is greater than recommended. Any slopes greater than 1:4 require additional soil erosion control measures such as slope stabilization.

Boss: As noted on the plans, slope stabilization must be installed over this area.

TT comment: The petitioner did not provide a response to the concern about directing future runoff away from the existing structure at the bottom of the slope they plan to modify/increase. The grading at the toe of the slope needs to be revised to provide a route for the storm water to flow away from the structure.

5. Profiles of all proposed utilities should be provided, showing existing and proposed surface grades and all existing and proposed utilities to be crossed.

#### Boss: Profiles will be provided as part of the construction submittal plan submittal.

TT comment: This is acceptable so long as all utility conflicts have been reviewed to ensure there will be no major changes to the site plan utility plan.

Ms. Tesha Humphriss, P.E. Genoa Township Krug Quick Lane Site Plan Review Response February 28, 2012 Page 3 of 3

#### UTILITIES

1. The petitioner shows a 502' long 6" sanitary sewer lead. We recommend installing the approximately 343 foot long portion of sanitary lead from the connection to the existing sewer by others to the 90-degree bend at the property line as an 8" sewer main to be owned, operated and maintained by the Sewer and Water Authority. The sewer lead should connect to the main using a wye connection installed just before the manhole. A long sanitary service lead poses maintenance issues.

Boss: A meeting was held with township officials regarding sewer. At the meeting it was agreed the Township would extend the sanitary sewer to this property. From that point, Krug would extend a sanitary sewer lead to the new facility.

TT comment: The recommendation to extend the sanitary sewer closer to the development would be ideal (but not required), as sanitary service laterals of that length can become maintenance problems.

2. Sewer profiles must be provided with elevations for both the existing and proposed sanitary sewer must be shown, including the location where the storm sewer crosses. An access and maintenance easement based on the main line sewer depth, shall be granted to the Sewer and Water Authority. This may impact the alignment along the adjacent property line.

Boss: Profiles will be provided as part of the construction plan submittal.

TT comment: This comment was originally provided due to the lack of information provided on the sanitary sewer. Spot elevations should be provided at the minimum at the upstream and downstream ends of all proposed sewers along with existing information to ensure that adequate elevation is available for the proposed construction. The current plan includes no information showing that a gravity sanitary sewer lead can physically be constructed at the required 1% grade, or that there will be adequate distance from other existing or proposed utilities, or acceptable depth of cover.

We have listed areas where additional information is needed for us to recommend approval of the site plan. The Township should consider these issues in your action on the plan.

Please call if you have any questions.

Sincerely

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

200-12736-12003

oseph C. Siwek, P.E. Project Engineer

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



Brighton Area Fire Department 615 W. Grand River Brighton, Michigan 48116 810-229-6640 Fax: \$10-229-1619

March 2, 2012

Amy Ruthig Genoa Township 2911 Dorr Road Brighton, MI 48116

RE: Krug Ford Quick Lane 2798 E. Grand River Site Plan Review

Dear Amy:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on March 1, 2012 and the drawings are dated November 14, 2011 with latest revisions dated February 21, 2012. The project is based on a new building (service center). The plan review is based on the requirements of the International Fire Code (IFC) 2009 edition. Previous comments appear to be addressed by the applicant in the revised submittal.

Previous comments in our review letter dated November 29, 2011 numbers 1-7 appear to have been addressed by the applicants in the revised submittal dated February 21, 2012.

Specifications and measurements of addressed comments will be field verified on or about the final certificate of occupancy inspection.

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

Cordially,

Jim Corcoran Captain / Inspector



ТΟ

COPIES

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We ha	ve updated the	Spill Preve	ention Plan	and it is now signe	d and dated.	We have incorporated	the sanitary sewer profiles into	) the		
set. W	/e have added a	a forebay ty	pe basin to	the outlet of the ne	ew storm sew	er system. A basin des	ign has been added to the over	all		
plan to	show what is	needed to r	neet the cu	rrent County Drain	Commission	requirements. Also, a	n easement has been added aro	und		
the en	tire basin area	per the engi	ineering's r	equest. Drain is no	w directed ar	ound the small building	g at the base of the slope a long	g the		
west s	ide of Krug.									

COPY TO

SIGNED:

he

Thomas H. Dumond, R.L.A.

# **Aerial Photograph**





#### IMPACT ASSESSMENT FOR "KRUG QUICK LANE"

#### GENOA TOWNSHIP, LIVINGSTON COUNTY MICHIGAN

Prepared for:

M. Krug Investments, L.L.C. 2798 E. Grand River Howell, Michigan 48843 517.546.0244

Prepared by:

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

April 4, 2012

#### 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: M. Krug Investments, LLC 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.

The proposed Krug Quick Lane is located on 11.27 acres on the south side of Grand River Avenue just west of Krug Ford Lincoln Mercury. Approximately 6.75 acres of the property is currently being used by the automobile dealership. The remainder of the site (4.52 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 higher along Grand River Avenue and slopes south and west to the existing retention basin area. 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" watermain along the south side of Grand River Ave., and a 8" watermain along the east side of the proposed building running through the center of the property. The sanitary sewer is located near the southwest corner of the property. The owner is working with Genoa Township to extend the sewer to 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.

Currently, an overhead utility service cuts across the southern half of the proposed site. Because of the utility, Krug has had to reduce the size of the building recommended by Ford Motor Company, and move the building forward into the front setback. The applicant has applied for a variance for a reduction in the front setback.

Also, a small portion of the existing parking lot currently extends into the Grand River Avenue rightof-way by 4 feet. Section 24.10 of the Genoa Township Ordinance states "Where a nonconforming 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 Krug 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 Mike Krug 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.
- 3. Other Requirements Met We are seeking a variance for the building setback due to an overhead utility service cutting through the property.

# 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 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.

The existing storm drainage runoff is captured in a retention basin located at the southwest corner of the property. The area where the proposed oil change will be located is currently paved and part of the automobile dealership. The addition of the auto maintenance facility will <u>reduce</u> the amount of impervious surface by approximately 2,600 square feet. Therefore, no additional storm water retention or detention is proposed. An area has been set a side adjacent to the existing retention basin for expansion of the basin, if additional storage volume is needed at a later date. A forebay has been designed to collect and slow drainage from the proposed facility.

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, slope stabilization. Stone filters will be installed on catch basins, inlets and pipe inlets. Finish grades, redistribution of top soil and lawn with shrubbery will be installed upon building and paving construction completion. Pavements, swales, basins, etc will be cleaned after construction and properly maintained by Krug 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 applicant is proposing to construct a 4,900 square foot building to be used for oil changes and other minor automobile maintenance. There will be a total of 6 service bays accessed on the east side of the building. Customers will be required to park their vehicles in the spaces provided out front of the facility along Grand River. Employees will then drive the vehicles into the service bays for servicing.

The service hours for the facility are as follows:

Monday-Friday: 7:00 a.m. – 7:00 p.m. Saturday: 8:00 a.m. – 5:00 p.m.

Much of the site will be illuminated by the existing light fixtures on the property. Several of the existing fixtures will be removed or relocated to make room for the new facility. Krug Ford has agreed, where possible, to replace light bulbs in the existing fixture in the parking lot with lower watt bulbs once the existing bulbs have burned out. Krug Ford's electrical contractor will have to determine if lower wattage bulbs will work in the existing fixtures. Wall mounted fixtures will be added to the building to supplement the existing lighting.

Two wall signs are proposed for the building, one on the front and the other on the east side. Because of limited visibility for east bound traffic on Grand River Avenue due to the adjacent building to the west, an additional sign is need to identify the business. The size and location of the two wall signs will be in compliance with the current Genoa Township Ordinance. A monument sign is not proposed at this time.

# 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 development will be served by public water and sewer systems adjacent to the site. The vehicle maintenance facility will employee eight (8) people on it's maximum shift. Because the use is based on quick servicing of vehicles, the users of the facility will be on site for a very limited period of time. Therefore, the impact on the general services will be minimal.

# 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.

The site is located within the Genoa-Oceola Sanitary Sewer District. The applicant will work with Township staff to determine the number of Residential Equivalent Units (R.E.U.) for the proposed use.

Because the storm sewer system is located entirely on the site, limited impact is anticipated from storm events. Much of the existing and proposed site sheet flows towards the existing retention basin. Therefore, the existing vegetation between the development and the basin filters out much of the sediments in the storm water.

All other utilities, including gas, electric, and telephone are available at the site and are not expected to increase in size or capacity. All proposed dry utilities will be underground.

# 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 quick lubrication vehicle shop, the number of trips in an average weekday is 660, with the peak being between 4:00 PM and 6:00 PM.

#### 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

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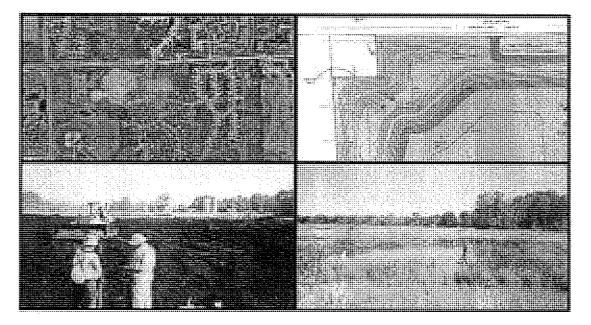
Spill Prevention Control and Countermeasures Plan

Krug Quick Lane 2798 E. Grand River Howell, Michigan 48643

March 1, 2012

Genoa township APR 0 5 2012 Received

ASTI ENVIRONMENTAL





## Krug Quick Lane

### Spill Prevention Control and Countermeasure Plan

March 1, 2012 Revised March 16, 2012

#### **Report Prepared For:**

Rand Construction 1270 Rickett Road Brighton, MI 48116

M. Krug Investments, LLC 2798 E. Grand River Howell, MI 48118

#### **Report Prepared By:**

Applied Science & Technology, Inc. 10448 Citation Drive Brighton, Michigan 48116 1-800-395-AST1

#### **ASTI Project 7879**

Report Prepared by:

Report Reviewed by:

Lisa Sullivan Environmental Compliance Leader Peter Collins Director of Environmental Planning



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Pag<u>e</u>

#### 1.0 INTRODUCTION

The purpose of this Spill Prevention, Control, and Countermeasure (SPCC) Plan is to describe measures implemented by Krug Quick Lane to reduce the potential of environmental releases of oil products and to mitigate potential impacts if an environmental release occurs.

This Plan has been prepared prior to the construction of the facility and may require an update if the conceptual plans are changed or modified. This Plan meets the requirements of 40 CFR, Part 112 as of February 2012.

#### 1.1 Substantial Harm Determination

Krug Quick Lane does not meet the criteria to be considered a risk of substantial harm under 40 CFR, Part 112 (Appendix A). Krug Quick Lane does not transfer oil over water to or from vessels. Krug Quick Lane has a total oil storage capacity significantly less than one million gallons.

#### 1.2 Summary of Expectations

Krug Quick Lane will complete monthly site inspections that meet the requirements of this Plan. Krug Quick Lane will perform preventive maintenance on equipment, secondary containment, and discharge prevention systems as described in this Plan or under the guide of the respective equipment manufacturer. Krug Quick Lane will conduct annual employee training on the topics required by this Plan and provide documentation of such (Appendix B).

Krug Quick Lane will contact the parties listed in Section 9.1 and submit a copy of the SPCC to the EPA if either of the following occurs:

- an environmental release that exceeds one thousand gallons of oil with a potential of reaching navigable waters, or
- two environmental releases of quantities greater than forty-two gallons occur within a twelve month period.

Krug Quick Lane will review this Plan at least once every five years. Krug Quick Lane will amend this Plan within six months of a change in facility design, construction, operation, or maintenance that significantly affects the facility's spill potential. Krug Quick Lane will continue to evaluate effective prevention and control technology and will implement such technology if it is feasible and cost effective.



#### 2.0 MANAGEMENT SUPPORT AND FACILITY INFORMATION

2.1 Facility, Owner, and Operator Information

Facility:	Krug Quick Lane	
	2798 E. Grand River Avenue	
	Howell, Michigan 48116	
	Telephone: Not available at time of publication	
Owner:	M. Krug Investments, LLC	
	2798 E. Grand River Avenue	
	Howell, Michigan 48116	

Operator: Same as Facility

#### 2.2 Location of Facility

The site is located on the south side of E. Grand River Avenue, east of E. Michigan Avenue and west of S. Latson Road in Genoa Township, Livingston County, Michigan.

#### 2.3 Designated Person Responsible for Oil & Polluting Material Spill Prevention

The person responsible for implementation and management of the SPCC is Dan Retherford. An alternate will be named at a later date. The alternate will be a General Manager, Supervisor, or other senior position.

#### 2.4 Internal Emergency Notification Procedures

In the event of an environmental release, immediately contact the person responsible for the SPCC (listed above). If the person responsible for the SPCC is not available contact the alternate. Evacuate all non-essential employees from the immediate area.

#### 2.5 Management Approval

This plan has full approval of Krug Quick Lane at a level of authority to commit the necessary resources to make this a successful program. The Letter of Commitment is located in Appendix C.

Self Certification Statement 2.6

I \_\_\_\_\_\_\_\_\_ of Krug Quick Lane certify that, to the best of my knowledge, the following statements are true and that Krug Quick Lane is in full compliance with the SPCC requirements as stated in 40 CFR Part 112.

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As the certifier, I am familiar with the applicable SPCC requirements as stated in 40 CFR Part 112. I have conducted a site inspection and have examined the Krug Quick Lane facility. To the best of my knowledge, this Plan was prepared in accordance with accepted and sound industry practices and standards, and fit the requirements of 40 CFR Part 112. Krug Quick Lane has put into place, procedures that meet the requirements for inspections. The contents of the SPCC will be fully implemented by Krug Quick Lane under my supervision.

I certify that Krug Quick Lane has an aggregate aboveground oil storage capacity of 10,000 U.S. gallons or less.

I certify that Krug Quick Lane has not had a single discharge (defined in  $\S112.1$  (b)) exceeding 1,000 U.S. gallons or two discharges (defined in  $\S112.1$  (b)) each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC self-certification date.

To the best of my knowledge, this Plan does not deviate from the requirements of 40 CFR 112 as allowed by  $\S112.7(a)(2)$  and 112.7(d), or include an exemption or measures pursuant to  $\S112.9(c)(6)$  for produced water containers and any associated piping and appurtenances downstream from the container, except as provided in  $\S112.6(b)(3)$ .

I certify that this Plan and the individual(s) responsible for implementation of this Plan have the full approval of management and I have committed the necessary resources to fully implement this Plan.

I understand it is my obligation to report any oil discharge to navigable waters or adjoining shorelines to the appropriate authorities. The notification requirements are detailed in Section 9.1 of this Plan. I also understand it is my obligation to have this Plan reviewed and amended whenever there is a material change at the facility that affects the potential for an oil discharge, and at least once every five years. Reviews and amendments are recorded in an attached log (Refer to Appendix D).

I understand that other obligations relating to the storage of oil may apply to our facility. I understand that a contingency plan may be used in lieu of secondary containment for qualified oil-filled operational equipment, in accordance with the requirements under §112.7 (k); and must include an established and documented inspection or monitoring program, follow the provisions of 40CFR Part 109, and include a written commitment of manpower, equipment, and materials to expeditiously remove any quantity of oil discharged that may be harmful. If applicable, a copy of the contingency plan and any additional documentation will be attached to this Plan as an attachment.

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I certify that Krug Quick Lane is not an oil production facility; therefore, the requirements regarding flowlines and intra-facility gathering lines does not apply.

I certify that I have satisfied the requirement to prepare and implement a Plan under  $\S112.3$  and all of the requirements under  $\S112.6$  (a). I certify that the information contained in this Plan is true.

Cionatura	Title Service Director
Signature	
Name Dan Ketherfund	Date <u>9/5/12</u>

#### 2.7 Document Cross Reference

Appendix E contains the Cross Reference Matrix for Non-production Facilities. This Plan does not follow the exact order of the Cross Reference Matrix. The rules referred to can be found on the EPA web site.



## 3.0 **REPORT ON SPILLS**

The facility has not had any reportable spill events since beginning operations in 2012.



#### 4.0 IMPACT ANALYSIS

#### *4.1 Type of Facility*

The proposed Krug Quick Lane conceptual plan consists of a 4,894 square foot building with paved driveway and parking areas. The facility would be used for automobile maintenance, oil change, and diagnostics.

#### 4.2 Direction of Flow

All oil containing materials will be stored inside the building. The facility will not have open floor drains in areas where oil containing materials are stored. The building floor will be sloped inward. The outdoor topography will be graded away from the building and drain to the south-southwest. Conceptual Drawings are provided as Appendix F.

#### 4.3 Quantity of Oil

The site will contain eight ASTs ranging in size from 275 gallons to 400 gallons. It is estimated that two 55-gallon drums will also be kept at the facility. Total oil capacity is estimated at 2,960 gallons. Oil containing equipment including compressors will also be located on the facility. A complete list will not be available until construction is complete.



# 5.0 SPILL CONTAINMENT PROVISIONS & STRUCTURAL CONTROLS

# 5.1 Description of Oil Storage

## Table 1

<b>Oil Containing</b>	Materials	Storage	Containers
On Containing	11.4.95 - W R. ANDARD	~~~~~	

Quantity	Total Capacity (gallons)	Contents	Threshold Reporting Quantity
2	400	5w20 Motor Oil	50 pounds to soil Sheen on water
1	400	15w40 Diesel Motor Oil	50 pounds to soil Sheen on water
1	275	Mercon 5 Transmission Fluid	50 pounds to soil Sheen on water
1	300	Washer Solvent	50 pounds to soil Sheen on water
1	55	Brake Cleaner	50 pounds to soil Sheen on water
1	55	Mercon LV Transmission Fluid	50 pounds to soil Sheen on water
1	275	5w30 Motor Oil	50 pounds to soil Sheen on water
2	400	Waste Oil	50 pounds to soil Sheen on water

# 5.2 Description of Oil Containment Structures

All storage containers for oil containing materials listed in Table 1 are stored within the building. The bulk of the oil will be stored in the Compressor/Bulk Oil Room. The building will have sealed concrete floors with no floor drains (except for inside bathrooms) and the building is expected to contain any oil containing material released. The floors will be inwardly sloped to fully contain 110% of the largest container or 10% of total volume (whichever is larger). Spill kits will be stored in this area in the event of a spill.

## 5.2.1 Drainage

The floor inside the building will be sloped to the center of the room/building and any spills are therefore expected to remain inside the building.

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#### 5.2.2 Facility Transfer Operations

Prior to removal from the truck, drums are inspected for signs of leakage or damage. Krug Quick Lane will not accept leaking or damaged drums. Drums are transported via hand cart from the truck to the Compressor/Bulk Oil Room. Once unloaded from the hand cart, the drums are inspected for signs of damage that may have occurred during transport.

The waste oil ASTs are emptied via a vacuum truck. Only certified waste haulers are used. The truck tires are chocked and the vehicle is disengaged during the transfer. All connections are checked prior to engaging the vacuum. An employee is in attendance during the entire transfer to observe for leaks, spills, or improper procedures. After an AST is emptied, the vacuum is shut off and the lines are disconnected while monitoring for any residual oil that may be remaining in the line.

All ASTs are fitted with overfill protection. An employee is present to observe the AST during filling operations. The methods for filling the ASTs are unknown and will be described in detail once available.

# 5.2.3 Inspections, Testing and Recordkeeping

Visual inspections are conducted monthly on the ASTs, dispensers, and drums. All surfaces are inspected for signs of leakage and impaired container integrity (i.e. corrosion, dents, etc.). Gaskets and valves are inspected. All records of inspection and testing are kept for a minimum of five years. An inspection checklist is provided in Appendix G.

#### Table 2

I HELLIGI JUHI I & CHECKICALOL / CAMARAGOS AND	Potential Spill Predictions, Vo	lumes, Rates, and Control
--	---------------------------------	---------------------------

Type of Container	Volume (gal)	Estimated Rate of Spill (gal/min)	Direction of Flow	Secondary Containment
New Oil AST	400	30*	Floor sloped inward	Building
Transmission Fluid AST	275	20*	Floor sloped inward	Building
Washer Solvent AST	300	22.5*	Floor sloped inward	Building
Drum	55	55	Floor sloped inward	Building
New Oil AST	275	20*	Floor sloped inward	Building
Waste Oil AST	400	25*	Floor sloped inward	Building

\* based on small hole, tear, or seam separation



# 6.0 INFEASIBILITY ANALYSIS

Installation of secondary containment is considered feasible for Krug Quick Lane; therefore, an infeasibility analysis is not necessary for this Plan.



#### 7.0 SECURITY

The facility is approximately 4.32 acres, is located in an area of high traffic volume and has restricted access. The parking area and building is adequately lit. All oil-containing materials are stored indoors. Public access to the inside of the building is restricted to the reception area. The building is locked and secured during non-operational hours.



## 8.0 NON-STRUCTURAL CONTROLS

### 8.1 Employee Training Program

Employee training programs are necessary to inform personnel at all levels of responsibility about the components of the SPCC Plan. Each employee receives job-specific training at his/her hire date. An annual briefing about discharge prevention is held in accordance to SPCC requirements. Employee training addresses the following:

- Proper maintenance of equipment to prevent oil discharges.
- Procedures for filling tanks, including:
  - Checking reserve prior to filling.
  - Be in continuous attendance while filling.
  - Following filling, secure valves and verify that disconnects have not resulted in a spill.
  - Make sure pumps are only accessible to authorized personnel.
  - Do not top off vehicles.
- Monthly inspections for spills or leaks of oils and significant materials.
- Materials Handling and Storage
  - Train employees which materials are hazardous and where those materials are stored.
  - Point out container labels and how to interpret them.
  - Instruct employee to use the oldest materials first.
  - Demonstrate how valves are tightly closed and how drums should be sealed.
  - Demonstrate Material Safety Data Sheets (MSDSs) location and interpretation.
- Proper disposition of waste materials (i.e., do not dispose of materials down the sewer).
- Particular features of the facility and its operations, which are designed to minimize a release of any polluting materials.
- Monthly inspection for integrity of tanks, appurtenances and containment structures.
  - Personnel are trained on how to conduct monthly inspections in all areas included in this Plan.
  - Procedures for using inspection checklists (Appendix G) will also be reviewed.
- Spill Control
  - In the event of a spill, implement emergency spill procedures outlined in Section 9.0. These procedures will be reviewed during training.
  - Identify spill areas and drainage routes.
  - Explain cause and prevention of any past spill events.
  - Drill on spill cleanup procedures.
  - Review locations of spill control equipment and the person responsible for operating equipment.

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- General Housekeeping
  - Review and demonstrate basic cleanup procedures.
  - Clearly indicate proper disposal locations.
  - Inform employees about locations of spill control equipment.

All records of training and attendance are maintained in the facility files for at least five years (Appendix B).

#### 8.2 Spill Control Equipment

Available spill control equipment includes pads, floor dry, and absorbent socks. Spill control equipment is located in an easily accessible location in the vicinity of oil storage and usage.

#### 8.3 Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly work environment. Housekeeping procedures are implemented at the site to minimize potential pollution from discharging off-site with the storm water run-off.

- Vehicle parking areas are inspected and maintained.
- Maintenance includes the use of absorbent materials and/or the removal of oils from drips and leaks.
- Interior floors are maintained and kept intact.
- Debris is routinely picked up around the site.
- Paved areas and floors are routinely swept.

#### 8.4 Comprehensive Inspections

Areas of oil storage are inspected monthly. These inspections are documented and records are retained. The inspection report indicates areas of non-compliance with oil storage requirements and contains a certification that Krug Quick Lane is in compliance with the SPCC Plan. A copy of the SPCC Plan Inspection Report is included in Appendix G.



#### 9.0 SPILL NOTIFICATION PROCEDURES

#### 9.1 Spills of Oil

In the event of a spill of oil, which has reached or has the potential to reach any body of water, surface water, groundwater, or storm drain, the following notifications must be made.

- 1. Call the National Response Center (NRC) immediately at (800) 424-8801.
- 2. Call the Pollution Emergency Alerting System (PEAS) at (800) 292-4706.
- 3. Call the Local Emergency Planning Committee (LEPC) at (517) 546-4620.
- 4. Submit a written report to the SERC within 14 days and the EPA Regional Administrator within 60 days.

State Emergency Response Commission	U.S. EPA
P.O. Box 30457	1 North Wacker Drive
Lansing, MI 48909-7957	Chicago, IL 60606

5. Within 10 days after the release, Krug Quick Lane will file a written report with the chief of the DEQ waste management division outlining the cause of the release, discovery of the release, and the response measures taken or a schedule for completion of measures to be taken, or both, to prevent recurrence of similar releases.

#### 9.2 Other Emergency Notifications and Procedures

9.2.1 Notification Numbers		
Brighton Fire Department	(810) 225-6204	911 - Emergency
Michigan State Police Department	(810) 227-1051	
Livingston County Sheriff	(517) 546-2440	
Applied Science & Technology, Inc.	(810) 225-2800	
Safety Kleen	(248) 851-7349	

The MDEQ Spill Report is available in Appendix H.

# 9.2.2 Spill Control & Cleanup Procedures

Spill control equipment and supplies consist of pads, floor dry, and absorbent socks. Spill control equipment is located in an easily accessible location in the vicinity of oil storage and usage..

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If a spill occurs, it will be mitigated on a case-by-case basis as determined by Dan Retherford, the person responsible for the SPCC. A basic guide is provided in Appendix I.

Spill material will be characterized before disposal as required in 40 CFR 261.10 and be properly disposed in accordance to federal, state, and local regulations.





#### 10.0 REVIEW OF PLAN

The SPCC Plan regulation (40 CFR 112.5) states that a facility must review its SPCC Plan in accordance with the following three principles:

- 1. Conduct a review of the SPCC Plan at least every five (5) years,
- 2. Complete any amendments within 6 months, if required, and
- Include more effective prevention or control technology if: Technology will significantly reduce the likelihood of a spill event, Technology has been field-proven at review time.

In compliance with 40 CFR 112.5, the plan will be amended within six months if "there is a change in facility design, construction, operation, or maintenance which materially affects the facility's potential for discharge of oil into or upon the navigable waters of the United States or adjoining shoreline."

In the event of an oil or oil product discharge (40 CFR 110) in excess of 1,000 gallons in a single spill event, or if two discharges occur in excess of 42-gallons within any twelve-month period, the details of the discharge, contingency measures, and updated preventative measures and a copy of this plan must be submitted to the EPA.



itopende#

		Certification of the	Applicability of	Substa	antial Ha	rm Criteria
Fac	ility Name	Krug Quick Lane				
Fac	ility Address					
1.		/ transfer oil over water than or equal to 42,000		s and do	es the fac	ility have a total oil storage
		Yes		No	✓	_
2.	facility lack sec	ondary containment tha orage tank plus sufficie	at is sufficiently la nt freeboard to all	rge to co ow for p	ontain the precipitation	on within any aboveground
		Yes		No	✓	_
3.	Does the facility located at a dist sensitive enviro	ance such that a discha	e capacity greater rge from the facili	than or ty could	equal to 1 cause inj	million gallons and is the facility ury to fish and wildlife and
		Yes		No	✓	-
4.						million gallons and is the facility vn a public drinking water intake?
		Yes		No	✓	
5.	Does the facility facility experies five years.	y have a total oil storag need a reportable spill i	e capacity greater n an amount great	than or er than o	equal to 1 or equal to	million gallons and has the 0 10,000 gallons within the last
		Yes		No	✓	
	1	f a facility answers "Yes" a "Facility Respo	" to any of the above onse Plan" (FRP) a			
Ce	rtification					
thi	s document, and	Ity of law that I have po that based on my inqui mitted information is tr	ry of those individ	uals res	ponsible f	with the information submitted in for obtaining this information, I

Signature		Title	Service Director	
Name (print or type)	Dan Refferbird	Date	y/s/con	-

lippend D E

# Documentation of Annual SPCC Training

Instructions:	Employees receiving annual SPCC training will provide their signatures to this documentation to be retained with the SPCC.
Date of training:	
Training provided by:	
Topics:	(Include procedures for routine handling of products [loading, unloading, and facility transfers, etc.] for which instruction was provided.)
Attendees:	
	•

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#### MANAGEMENT APPROVAL

I, the undersigned, having the necessary authority to commit Krug Quick Lane personnel to the implementation of this plan, hereby certify that this Spill Prevention, Control and Countermeasure Plan will be implemented as herein described. A copy of this plan shall be kept at the facility and will be made available to the United States Environmental Protection agency and/or State of Michigan government officials if requested.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Facility Representative Signature: Printed Name: Title:

Date:

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Appendix D

# SPCC Review and Amendments

	Date	Amendments
• .		
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# **CROSS REFERENCE MATRIX FOR NON-PRODUCTION FACILITIES**

Regulation	Description	Page #
§112.3(b)(1) or (c)	SPCC Plan prepared prior to facility becoming operational (effective 11/10/2010)	
§112.3(d)	Professional Engineer (PE) certification with five elements	
§112.5(a)	Amendment of SPCC Plan	
§112.5(b)	Review of Plan at least every 5 years with documentation ( <i>i.e.</i> a log)	
§112.6	Qualified Facilities: meets qualification criteria	
§112.6(a) or (b)	Tier I or Tier II Self Certification with 8 elements	
§112.6(a)(2)	Technical amendments self-certified	
§112.6(a)(3)(i)	Template has failure analysis	
§112.6(a)(3)(ii)	Template has adequate secondary containment	
§112.6(a)(3)(iii)	Template has overfill protection	
§112.6(b)(2) / (i)	Technical amendment Self-Certified or PE certification for deviations from Plan requirements	
§112.6(c)(3)(i)	Environmental Equivalence certified by PE	
§112.6(c)(3)(ii)	Impracticability determination certified by PE	
§112.6(c)(4)	PE certification with three elements	
§112.7	General requirements for SPCC Plans for all facilities & all oil types	
§112.7	Management approval of Plan	1
§112.7	Discussion of facilities, procedures, methods or equipment not yet fully operational with details of installation and operational start-up	
§112.7(a)(1)	General requirements; discussion of facility's conformance with rule requirements	
§112.7(a)(2)	Deviations from Plan requirements	
§112.7(a)(3)	Facility description and diagram, type of oil and capacity of each container, transfer stations and piping, buried containers on diagram	
§112.7(a)(3)(ii)	Discharge prevention measures	
§112.7(a)(3)(iii)	Discharge drainage controls	
§112.7(a)(3)(iv)	Countermeasures for discharge discovery, response and cleanup	
§112.7(a)(3)(v)	Methods of disposal of recovered materials in accordance with legal requirements	
§112.7(a)(3)(vi)	Contact list and phone numbers for facility response coordinator, National Response Center, cleanup contractors, all Federal, State, and local agencies who must be contacted in case of a discharge	
§112.7(a)(4)	Spill reporting information	
§112.7(a)(5)	Discharge procedures	
§112.7(b)	Failure prediction (sources, quantities, rates, and directions)	
§112.7(c)	Secondary containment for all areas from which a discharge of oil could occur (i.e. mobile refuelers, loading/unloading areas, transformers, oil filled operational equipment, etc.) other than bulk containers	
§112.7(d)	Explanation of impracticability of secondary containment	
§112.7(d)(1)	Oil spill contingency plan per part 109	
§112.7(d)(2)	Commitment of manpower, equipment & materials to remove a discharge	
§112.7(e)	Written procedures for inspections and tests	
§112.7(e)	Records of inspections and tests signed and kept 3 years	
§112.7(f)(1)	Employee training	
§112.7(f)(2)	Designated individual accountable for discharge prevention	1

# **CROSS REFERENCE MATRIX FOR NON-PRODUCTION FACILITIES**

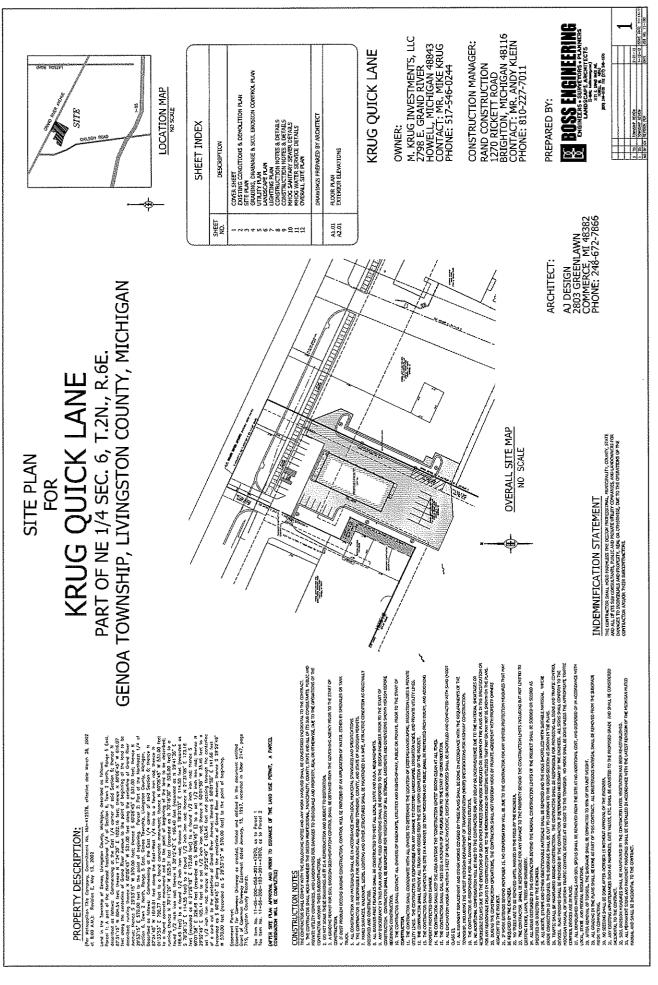
Regulation	Description	Page #
§112.7(f)(3)	Discharge prevention briefings scheduled and conducted annually	
§112.7(g)	Security: How oil handling, processing and storage areas are secured and access is controlled	
§112.7(g)	Security: How master flow and drain valves of containers are secured	
§112.7(g)	Security: How unauthorized access to starter controls on oil pumps is prevented	
§112.7(g)	Security: How out-of-service and loading/unloading connections of oil pipelines are secured	
§112.7(g)(5)	Security: Appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges is addressed	
§112.7(h)	Loading/unloading rack (excluding offshore facilities)	
§112.7(h)(1)	Containment for contents of largest compartment	
§112.7(h)(2)	Warning light/sign, barrier system, wheel chocks, or break interlock system to prevent departure with connected lines	
§112.7(h)(3)	Inspect drains and outlets of vehicles	
§112.7(i)	Brittle fracture or catastrophic failure evaluation requirements	
§112.7(j)	Conformance with State requirements	
§112.3(k)(1)	Qualified Oil-Filled Operational Equipment: meets criteria	
§112.7(k)(2)(i)	Inspection procedures or monitoring program	
§112.7(k)(2)(ii)(A)	Oil spill contingency plan per part 109	
§112.7(k)(2)(ii)(B)	Written commitment of resources	
§112.8, §112.12	Requirements for Onshore Facilities (excluding production)	
§112.8(a), §112.12(a)	Meet general and specific requirements	
§112.8(b)(1), §112.12(b)(1)	Facility drainage: Restrain drainage from diked areas; inspect accumulation	
§112.8(b)(2), §112.12(b)(2)	Facility drainage: Manual valves to drain diked areas, inspect before discharging into watercourse	
§112.8(b)(3), §112.12(b)(3)	Facility drainage: Undiked drainage with a potential for a discharge designed to flow to ponds, lagoons, or catchment basins	
§112.8(b)(4), §112.12(b)(4)	Facility drainage: Final discharge of ditch drainage controlled	
§112.8(b)(5), §112.12(b)(5)	Facility drainage: Where pump transfer is needed, two lift pumps installed with one installed permanently	
§112.8(c), §112.12(c)	Bulk storage containers:	
§112.8(c)(1), §112.12(c)(1)	Containers compatible with material and conditions of storage	
§112.8(c)(2), §112.12(c)(2)	Secondary containment for capacity of largest container & sufficient freeboard for precipitation	
§112.8(c)(3), §112.12(c)(3)	Not allow drainage of rainwater from diked areas unless inspected, records kept of drainage events	
§112.8(c)(4), §112.12(c)(4)	Completely buried metallic containers corrosion protected, leak testing conducted	
§112.8(c)(5), §112.12(c)(5)	Partially buried containers corrosion protected	

# CROSS REFERENCE MATRIX FOR NON-PRODUCTION FACILITIES

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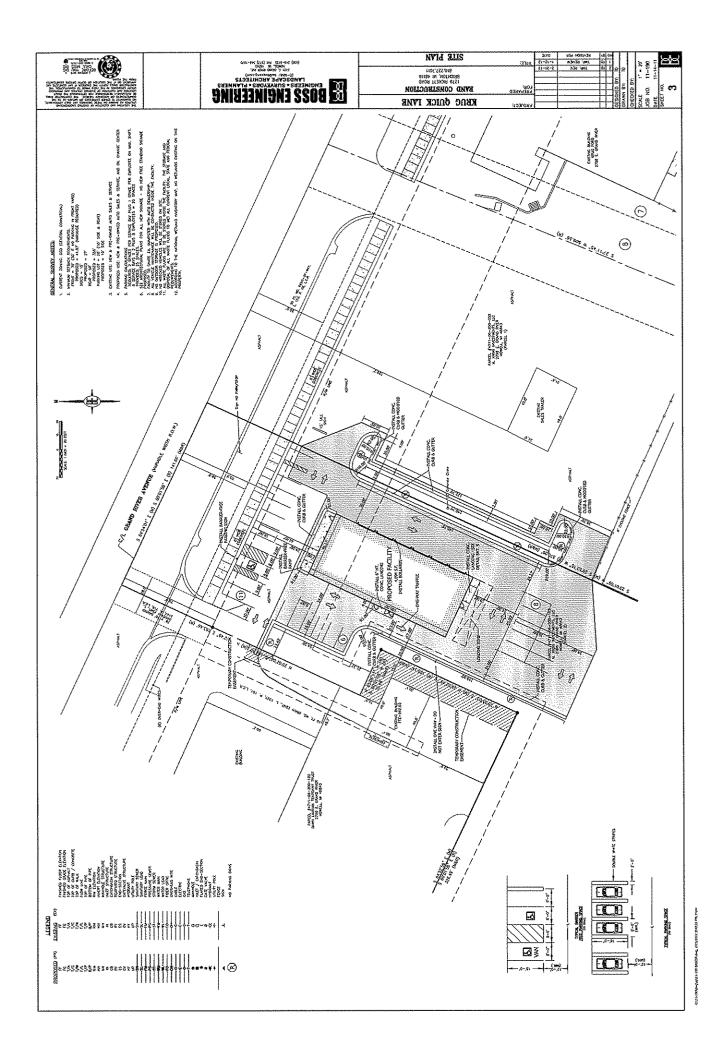
Regulation	Description	Page #
§112.8(c)(6),	Integrity testing, visual plus non-destructive shell testing, comparison records kept	
§112.12(c)(6)		L
§112.8(c)(7),	Internal heating coils monitored	
§112.12(c)(7)		
§112.8(c)(7),	Internal heating coils monitored	
§112.12(c)(7)		
§112.8(c)(8),	Containers engineered to prevent discharges	
§112.12(c)(8)		
§112.8(c)(8)(v),	Liquid level sensing devices tested to ensure proper operation	
§112.12(c)(8)(v)		
§112.8(c)(9),	Observe effluent treatment facilities to detect system upsets	
§112.12(c)(9)		
§112.8(c)(10),	Correct visible leaks and remove accumulations of oil	
§112.12(c)(10)		ļ
§112.8(c)(11),	Secondary containment for mobile/portable containers with capacity of largest container &	
§112.12(c)(11)	sufficient freeboard for precipitation	
§112.8(d),	Facility transfer operations, pumping and facility process:	
§112.12(d)		
§112.8(d)(1),	Buried piping installed or replaced after 8/16/02 corrosion protected	
§112.12(d)(1)		
§112.8(d)(2),	Terminal connections capped/blank flanged when not in service or in standby service for	
§112.12(d)(2)	an extended time	
§112.8(d)(3),	Pipe supports properly designed	
§112.12(d)(3)		<b>_</b>
§112.8(d)(4),	Inspect aboveground piping, integrity and leak test buried piping	
§112.12(d)(4)		
§112.8(d)(5),	Warn vehicles of aboveground piping	
§112.12(d)(5)		<b> </b>
§112.20(e)	Completed and signed certification of substantial harm form (Appendix C)	1

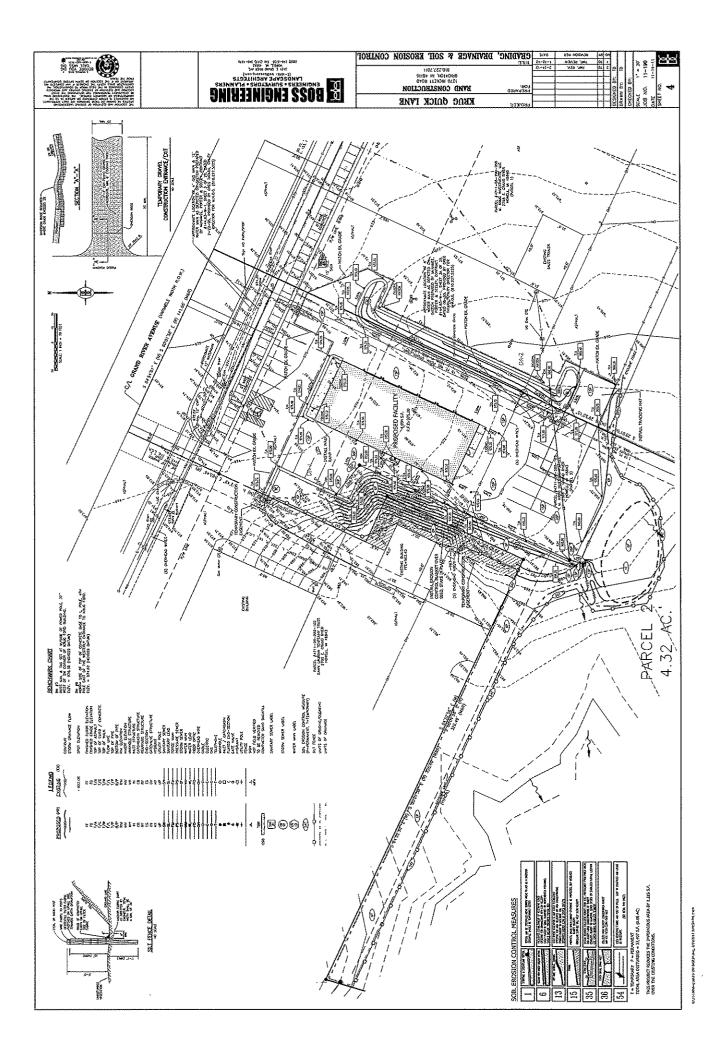
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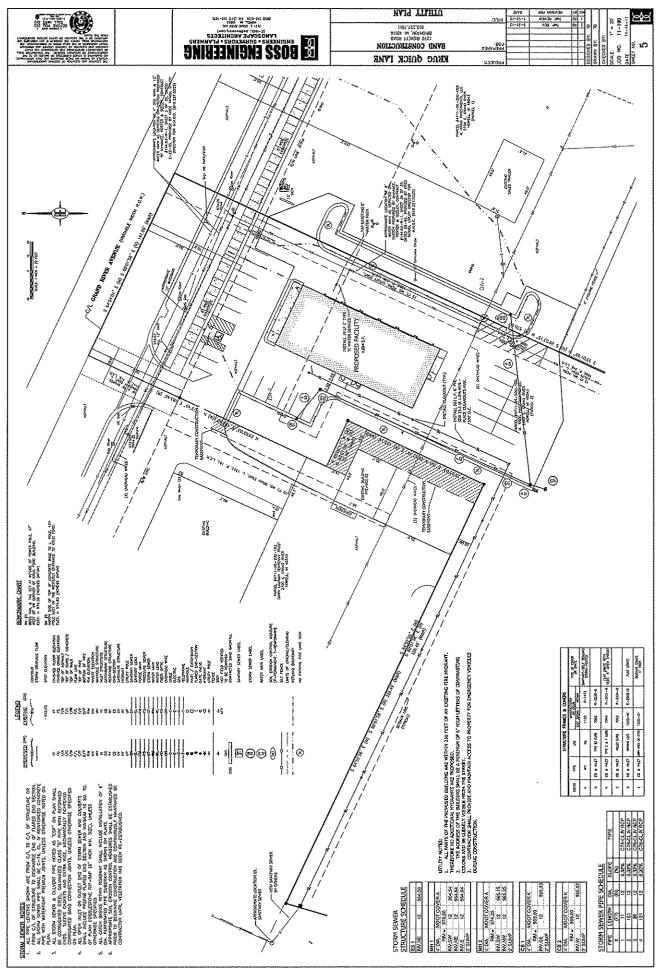


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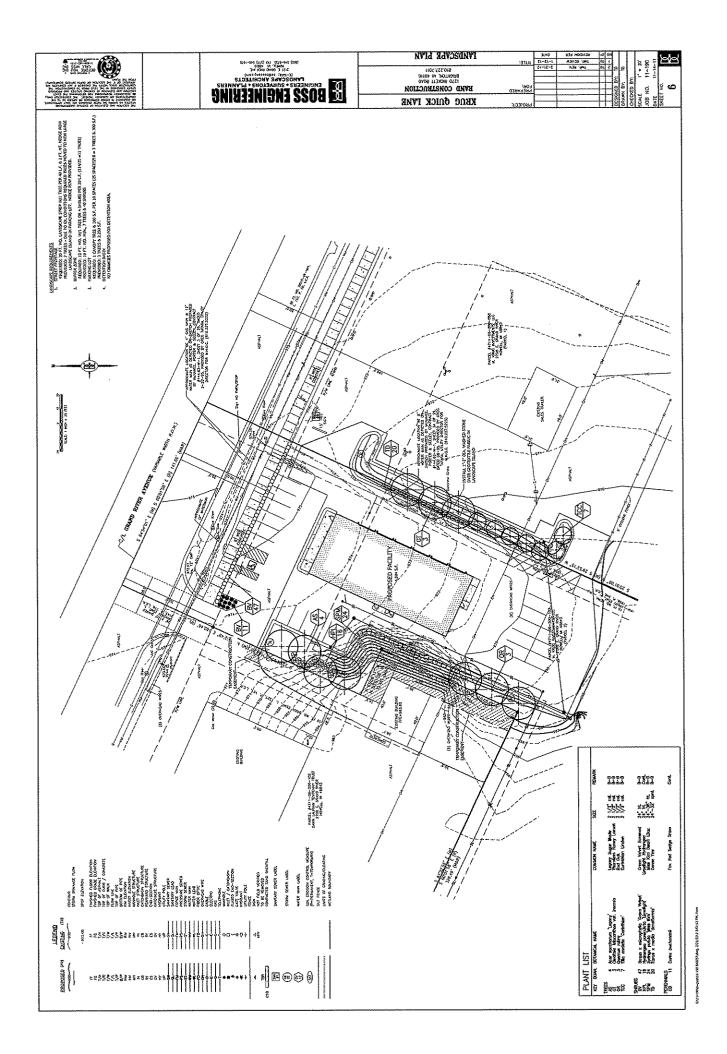


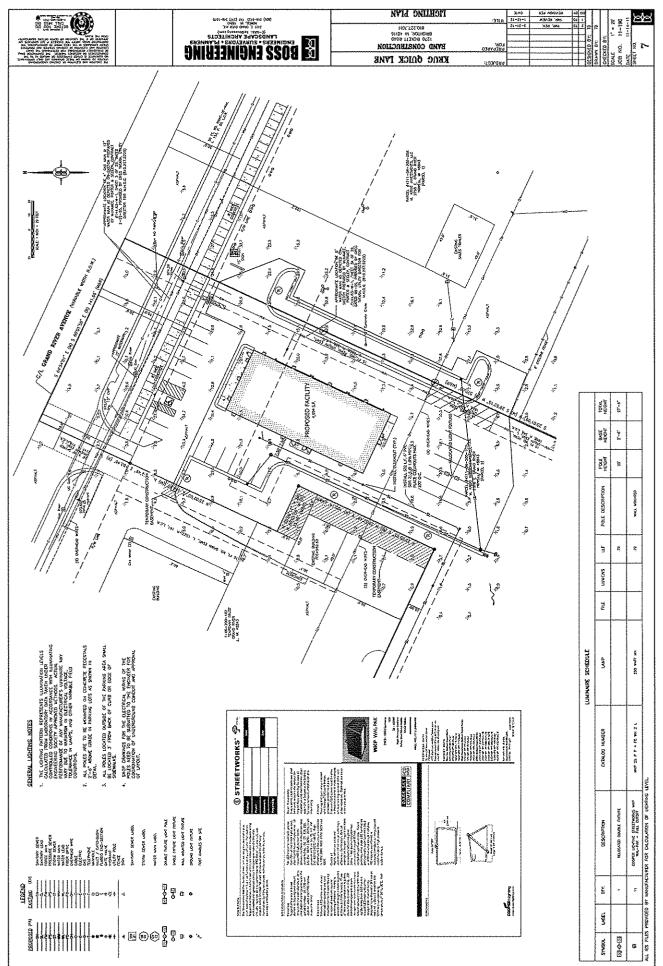




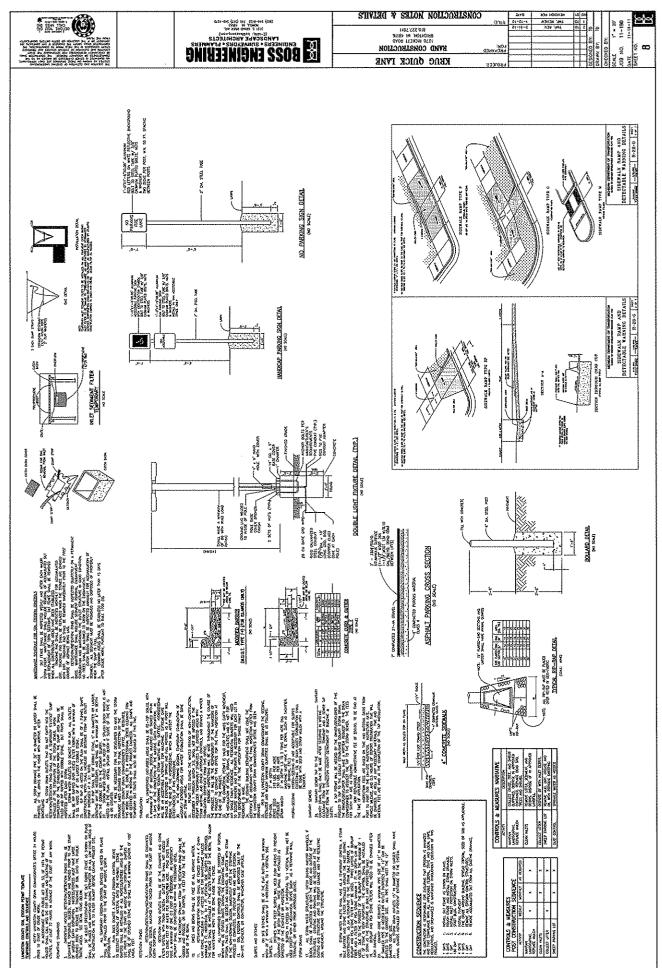


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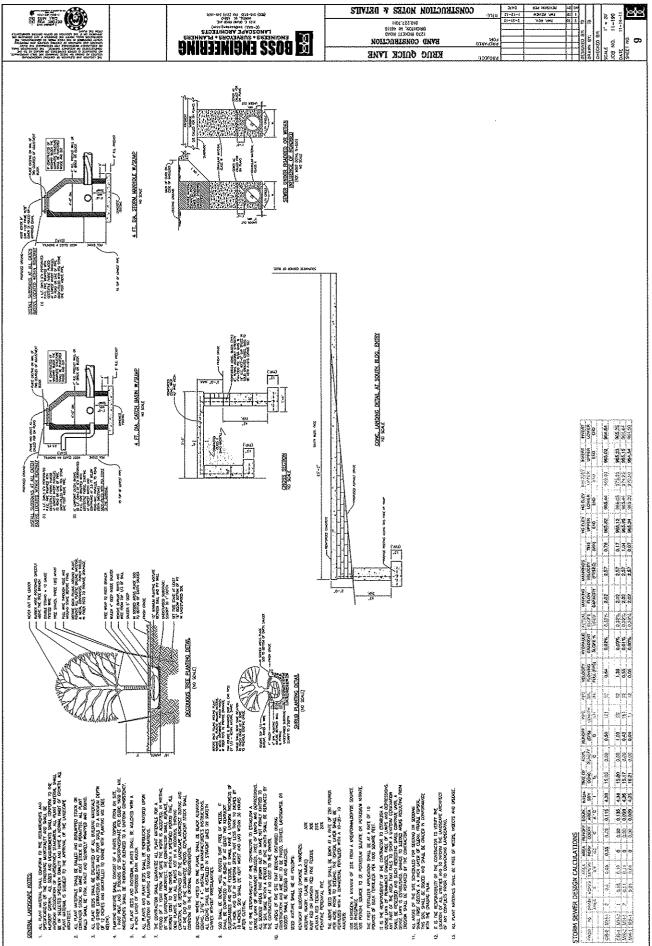




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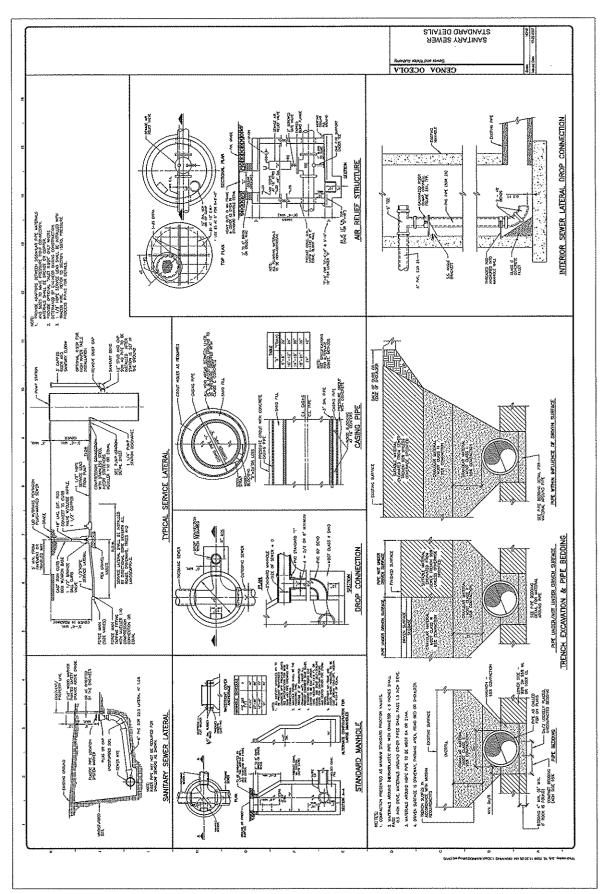
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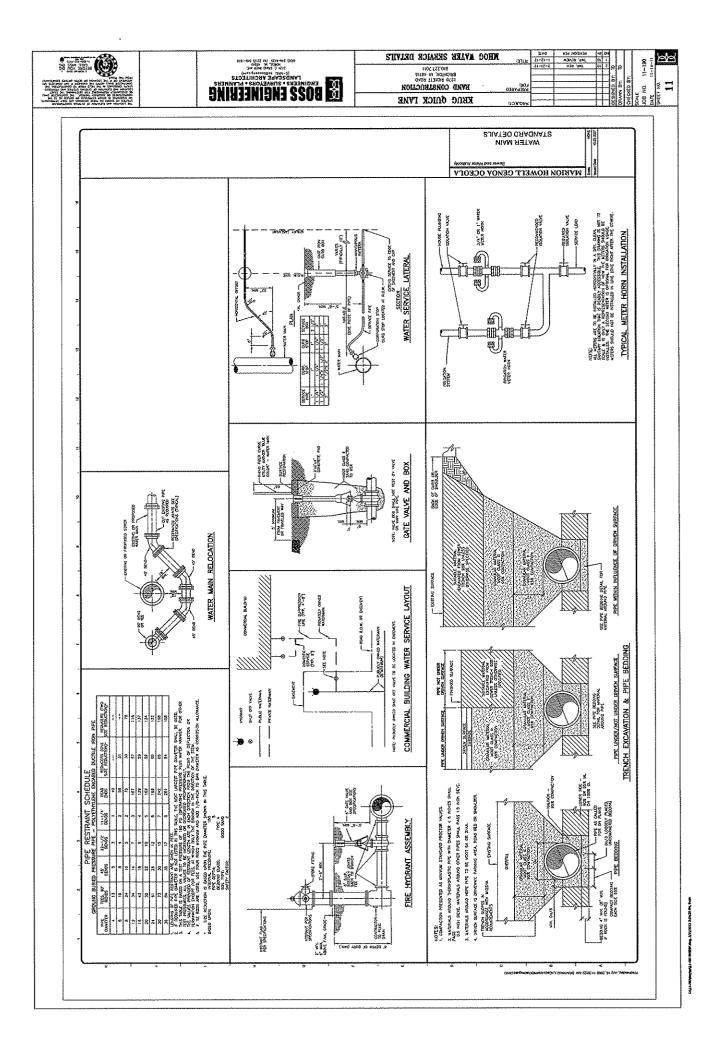
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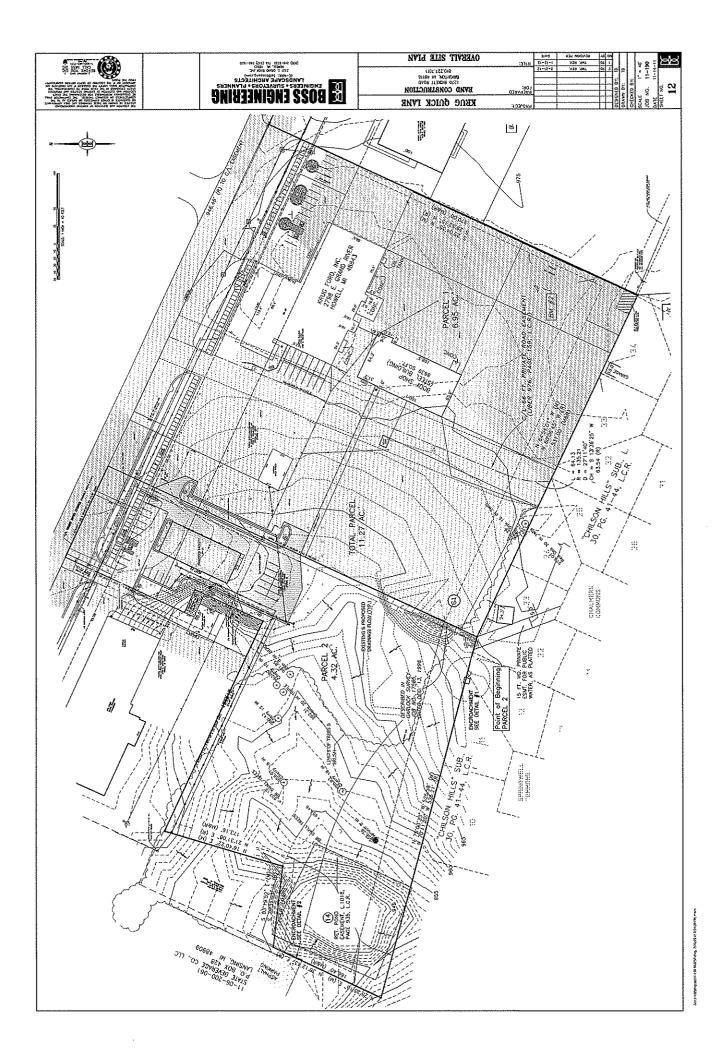
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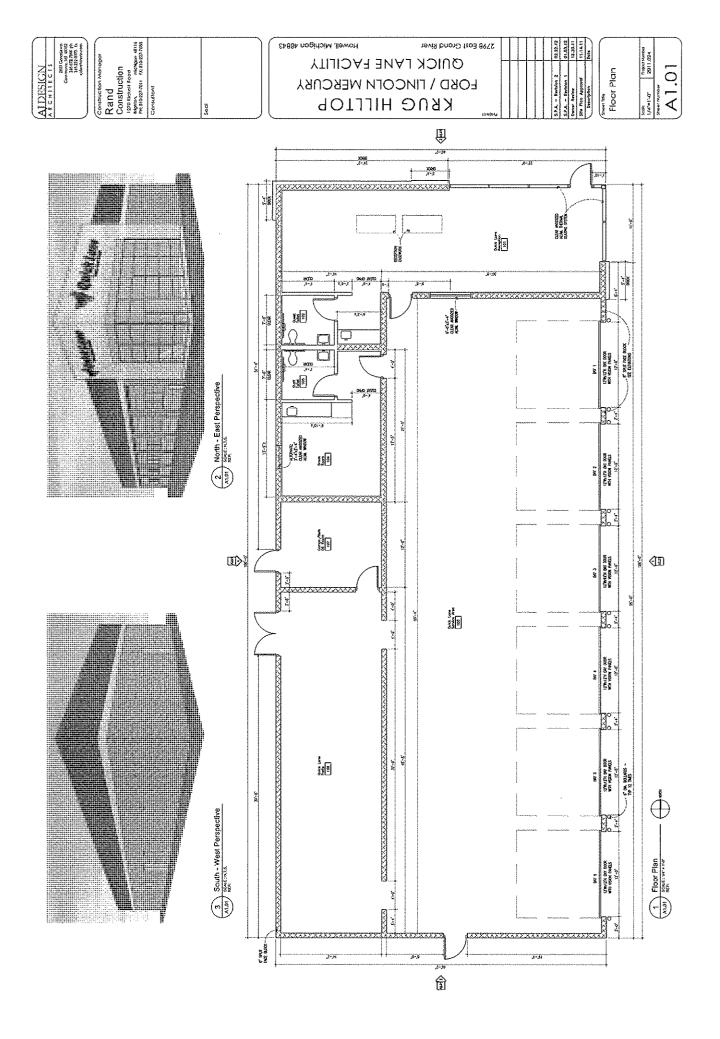
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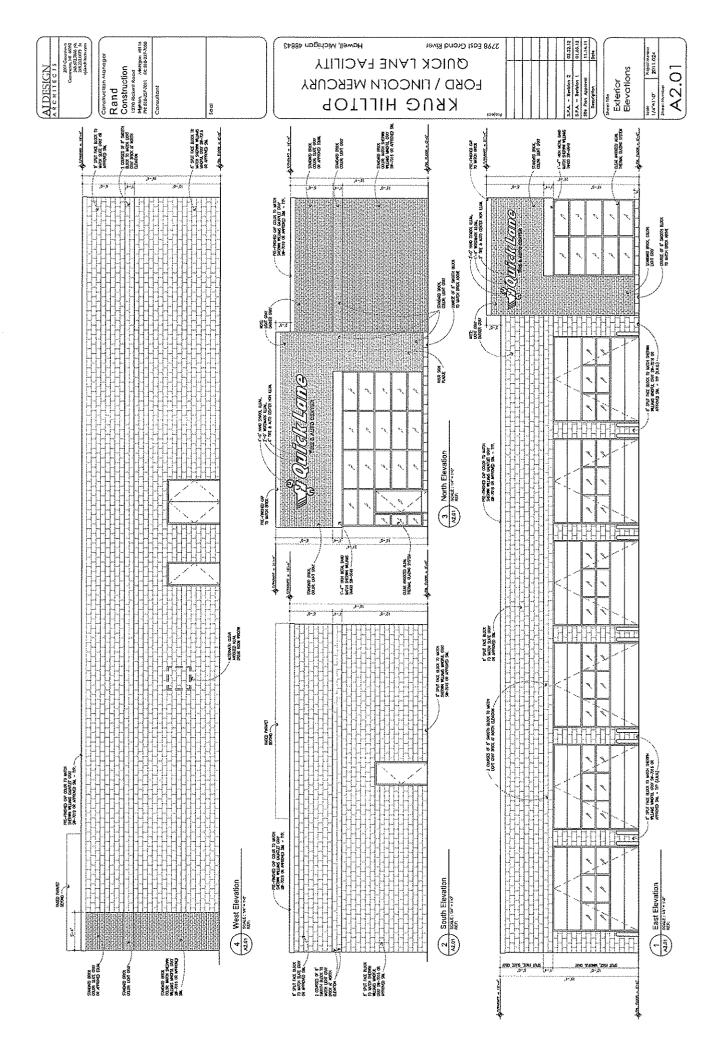


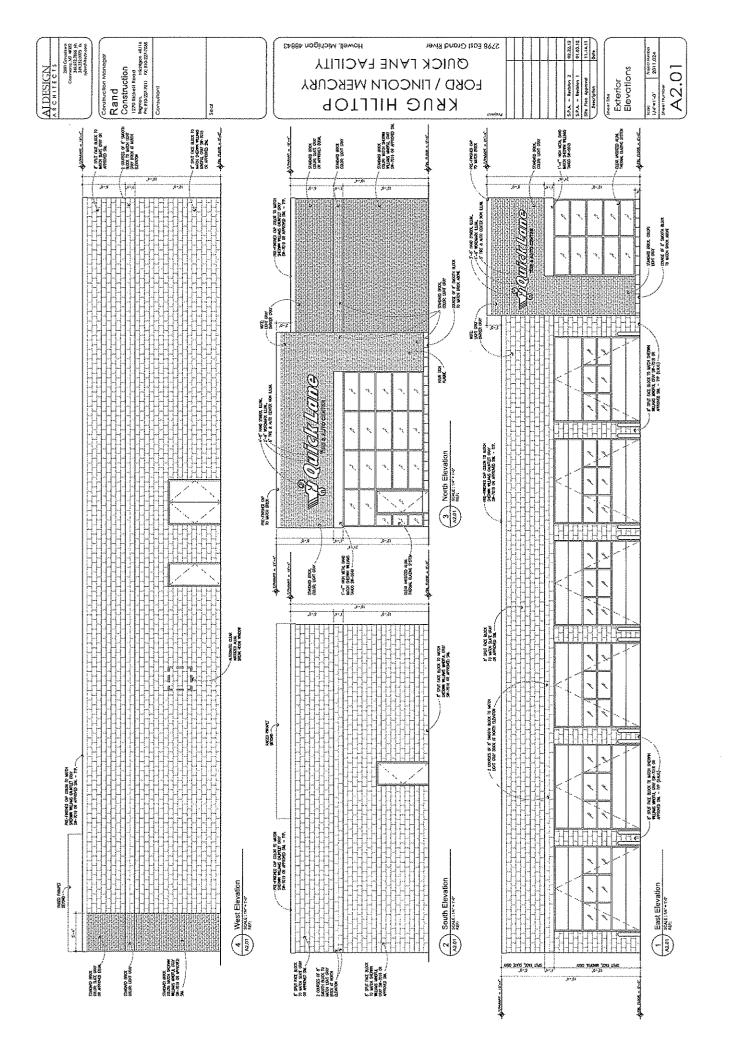
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# Krug Quick Lane Oil Storage Areas Monthly Inspection Checklist Howell, Michigan

Date:	Time:	am/pm	Inspector:	······	
400 collor	Sw20 Motor Oil AST #1			YES	NO*
	5w20 Motor Oil AST #1	nina watata	-4-		
	free of visible signs of leakage (stai		, etc.)		·
	free of rust, corrosion, dents, or dan	0			
	& surrounding area is free from s				
	<b>I</b> & surrounding area is free of crac				
	and gaskets are free of signs of leak	age			
Overm	Protection is functioning				
400-gallon	5w20 Motor Oil AST #2				
Tank is	free of visible signs of leakage (stai	ning, wetness.	, etc.)		
	free of rust, corrosion, dents, or dan				
	& surrounding area is free from s	-			+
	& surrounding area is free of crac				
	and gaskets are free of signs of leak				
	Protection is functioning	0			
	C C				
400-gallon	15w40 Diesel Motor Oil AST				
Tank is	free of visible signs of leakage (stai	ning, wetness,	, etc.)		
Tank is	free of rust, corrosion, dents, or dan	nage			
	& surrounding area is free from s				
Ground	& surrounding area is free of crac	ks			
Valves :	and gaskets are free of signs of leak	age			
Overfill	<b>Protection</b> is functioning				
	Mercon 5 Transmission Fluid AST				
	free of visible signs of leakage (stail		, etc.)		**************************************
	free of rust, corrosion, dents, or dan				······
	& surrounding area is free from s				
	& surrounding area is free of crac				
	and gaskets are free of signs of leak	age			
Overfill	<b>Protection</b> is functioning				**********
300-gallon	Washer Solvent AST				
	free of visible signs of leakage (stail	ning wetness	etc.)		
	free of rust, corrosion, dents, or dan	<u> </u>	, 0.0.7		
	& surrounding area is free from s				
	& surrounding area is free of crack				
	and gaskets are free of signs of leak.	age			
Overill	<b>Protection</b> is functioning				

## Krug Quick Lane Oil Storage Areas Monthly Inspection Checklist Continued Howell, Michigan

Date:	Time:	am/pm	Inspector:	· · · · ·	
				YES	ŇŎ
<u>275-ga</u>	lon 5w30 Motor Oil AST				
Tar	<b>k</b> is free of visible signs of leakage (staini	ng, wetness,	etc.)		
Tar	<b>ik</b> is free of rust, corrosion, dents, or dama			******	
	ound & surrounding area is free from sta				******
	ound & surrounding area is free of cracks				
	ves and gaskets are free of signs of leakag	<u>je</u>			
Ove	erfill Protection is functioning				
400-ga	llon Waste Oil AST #1				
Tar	<b>ik</b> is free of visible signs of leakage (staini	ng, wetness,	etc.)		
Tar	<b>ik</b> is free of rust, corrosion, dents, or dama	ge			
Gre	ound & surrounding area is free from sta	ining/odor			
	ound & surrounding area is free of cracks				
	ves and gaskets are free of signs of leakag	ge			
Ove	erfill Protection is functioning				
<u>400-ga</u> l	llon 5w20 Motor Oil AST #2				
	<b>ik</b> is free of visible signs of leakage (staini	ng, wetness,	etc.)		
Таг	<b>hk</b> is free of rust, corrosion, dents, or dama	ge			
Gre	ound & surrounding area is free from sta	ining/odor			
Gro	ound & surrounding area is free of cracks	;			
	ves and gaskets are free of signs of leakag	<u>je</u>			
Ove	erfill Protection is functioning				
55-gall	on drums				
Dru	ims are free of visible signs of leakage or o	lamage			
Flo	or is free from signs of leakage.				
	ims are properly closed				
Drı	ims are free of rust or corrosion				
Piping	and Dispensers				
	bing is free from visible signs of leakage of	damage			
Gr	ound is free from staining and odor	_			
Dis	spensers are working properly with no sign	ns of leakage	5		
Other					
	Routine Maintenance is being performed	on a regular	r basis		
	Good Housekeeping procedures are follo	-			
	The facility is in compliance with the SPC				
4.	Spill Kits are maintained and are easily ac	cessible			

If NO was initialed, immediately notify the General Manager, and begin spill response.

Note:

- 1 Time the spill was discovered
- 2 Action taken in response to the spill
- 3 Explain spill response

Name\_\_\_\_\_

Date\_\_\_\_\_



Michigan Department of Environmental Quality

### SPILL OR RELEASE REPORT

Issued by authority of the Michigan Department of Environmental Quality.

Note: Some regulations require a specific form to use and procedures to follow when reporting a release. Those forms and procedures MUST be used and followed if reporting under those regulations. This report form is to aid persons reporting releases under regulations that do not require a specific form. This report form is not required to be used. To report a release, some regulations require a facility to call the PEAS Hotline at 800-292-4706 (or the DEQ District Office that oversees the county where it occurred) and other agencies and provide information that is included in this form. A written follow-up report might be required. This form may be used for the written follow-up report and to document the initial report. If you prefer to submit this report electronically by FAX or e-mail, contact the regulating agency for the correct telephone number or e-mail address. Go to <a href="https://www.michigan.gov/chemrelease">www.michigan.gov/chemrelease</a> for more information.

#### Please print or type all information.

Name and Title of Person Submitting W	/ritten Report	Telephone Nun ( )	mber (provide area code)	
Name of Business	<del>-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	RELEASE LOCA' directions to the	TION (Provide address if diffe spill location. Include nearest	rent than business, if known, and give t highway, town, road intersection, etc.)
Street Address				
City, State, ZIP	*****			
Business Telephone Number (provide a	area code)			
SITE IDENTIFICATION NUMBER AND OTHER	LIDENTIFYING NUMBERS (if applicable)	County	Township	Tier/Range/Section (if known)
RELEASE DATA: Complete all applica regarding the release and its impac	able categories. Check all the b cts. Attach additional pages if ne	oxes that appl ecessary.	ly to the release. Provid	de the best available information
DATE & TIME OF DATE & TIME OF RELEASE (if known) DISCOVERY	DURATION OF RELEASE (if k days / hours	known)	TYPE OF INCIDENT  Explosion Fire Leaking container Other	Loading/unloading release     Pipe/valve leak or rupture     Vehicle accident
MATERIAL RELEASED (chemical or trade		CAS NUMBER OR Azardous Wast	TE CODE RELEASE	FED QUANTITY         PHYSICAL STATE           ED (indicate unit e.g. cu ft or yds)         RELEASED (indicate if solid, liquid, or gas)
	aining deficiencies usual weather conditions ner	MUCHAMMUMMET	Source of Loss Container Railroad car Pipeline	☐ Ship ☐ Tanker ☐ Tank ☐ Truck ☐ Other
TYPE OF MATERIAL RELEASED	MATERIAL LISTED ON OR DEFINED BY	Y	IMMEDIATE ACTIONS TA	AKEN
Agricultural: manure, pesticide, fertilizer     Chemicals     Flammable or combustible liquid     Hazardous waste     Liquid industrial waste     Oil/petroleum products or waste     Salt	<ul> <li>□ CAA Section 112(r) list (40 CFR</li> <li>□ CERCLA Table 302.4 (40 CFR f</li> <li>□ EPCRA Extremely Hazardous S (40 CFR Part 355)</li> <li>□ NREPA Part 31, Part 5 Rules pc</li> <li>□ NREPA Part 111 or RCRA haza</li> <li>□ NREPA Part 121 liquid industria</li> </ul>	Part 302) Substance colluting material ardous waste	Containment Dilution Evacuation Hazard removal Neutralization System shut down Other	<ul> <li>Diversion of release to treatment</li> <li>Decontamination of persons or equipment</li> <li>Monitoring</li> </ul>
Sewage Other Unknown	Other list Unknown			
RELEASE REACHED Surface waters (include name of river Drain connected to sanitary sewer (in Drain connected to storm sewer (inclu Groundwater (indicate if it is a known Soils (include type e.g. clay, sand, loa	nclude name of wastewater treatmen lude name of drain or water body it d n or suspected drinking water source	discharges into, i	street drain, if known) if known)	
Solis (include type e.g. clay, sand, log     Ambient Air     Spill contained on impervious surface				

EXTENT OF INJURIES (If any)		1	NAS ANYONE HOSPITALIZED'	
			Li Tes Number Hospitalized:	TREATED ON SITE
			] No	-
Describe the incident, the type of equipment involved in the damage caused by the release. Identify who immediately re	esponded to t	the volume of loss was determined he incident (own employees or contract	i, along with any resulting e for — include cleanup compar	I nvironmental ny name, contect person,
and lelephone number). Also identify who did further cleanup a CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE IN Estimated quantity of any recovered materials and a descrip	Activities if pe CLUDED ON ATT	Informed or known when report subm ACHED PAGE	nitted.	
CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INC	LUDED ON ATT.	ACHED PAGE		
Assessment of actual or potential hazards to human health (				
CHECK HERE IF DESCRIPTION OR ADOITIONAL COMMENTS ARE INC	Ц/DED ON ATT	ACHED PAGE		
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY NOTIFIED:			·····	
		OTHER ENTITIES NOTIFIED:	Date	: Time;
INITIAL CONTACT BY: 🗍 Telephone 🏳 FAX 🗌 Email 🗌 Oth Date/Time Initial Contact:	her	National Response Center (NR)     US Coast Guard Office:		
PEAS: 800-292-4706 Log Number Assigned		Detroit 🔲 Grand Haven 🗌 Sau	ult Ste. Marie	
DEQ District or Field Office Divisions or Offices Co	ontacted.	US Department of Transportation		
Bay City Gwinn G Air Quality		US Environmental Protection Ag		
Cadillac		911 (or primary public safety an	· · ·	
Calumet Kalamazoo Office Geological S	Survey	Local Fire Department	••• • •	····
Crystal Falls Lansing Water Resources		Local Police/State Police/Sherif	f Dept	
Detroit Newberry Resource Manager	ment	Local Emergency Planning Com	ımitlee	
Gaylord Warren		State Emergency Response Co	mmission	
🔲 Grand Rapids		via MI SARA Title III Program		
NOTE: DEQ Office locations are subject to change		Wastewater Treatment Plant Au	ithority	······
		Hazmat Team		
NAME AND TITLE OF PERSON MAKING INITIAL REPORT:		Local Health Department	<u></u>	
		Bureau of Fire Services Fire Ma		
		MI Dept of Agriculture & Rural D	/ev: 800-405-0101	et mensee et mensee et mensee
DEQ STAFF CONTACTED & TELEPHONE NUMBER:	1	Other PERSON CONTACTED & TELEPHONE	NUMBER:	
ATE WRITTEN REPORT SUBMITTED SIGNATURE OF PE	ERSON SUBMITT	TING WRITTEN REPORT		

THIS IS A MASTER COPY. PLEASE MAKE COPIES AS NEEDED.

Apportix I

NIDE - Reconstruction	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
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POTENTIAL HAZARDS	EMERGENCYRESPONSE
IRE OR EXPLOSION	PIRE
• RIGHLY FLAHMABLE: Will be easily ignited by heat, sparks or flames.	CAUTION: All these products have a very low flash point: Usp of water spray when
Vapors may form explosive mixtures with air.	fighting fire may be inefficient.
Vapors may travel to source of ignition and flach back.	CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may 🗿
Most vapors are heavier than air. They will spread along ground and collect in low or	bo more effective.
confined areas (sewers, basements, tanks).	small Fire
Vapor explosion hazard indoors, ouldoors or in sewers,	<ul> <li>Dry chemical, CO<sub>2</sub>, water spray or regular foam.</li> </ul>
Those substances designated with a "P" may polymerize explosively when healed or	7" Large Fire
involved in a fire.	Water spray, tog or regular toam.
Runoff to sever may create fire or explosion hazard.	<ul> <li>Use water spray or log; do not use straight streams.</li> </ul>
Containers may explode when keeted.	Move coateiners from fire area if you can do it without risk.
Mony liquids are lighter than water.	Fire Involving Tanks or Car/Trailer Loada
Substance may be transported hot.	<ul> <li>Fight firs from maximum distance or use unmanned hose holders or monitor nozzlos.</li> </ul>
If molten atuminum is involved, rufer to GUIDE 169.	<ul> <li>Cool containers with Rooding quantities of water until well after fire is out.</li> </ul>
EALTH	<ul> <li>Withdraw immediately in case of itsing sound from venting safety devices or discoloration of tank.</li> </ul>
Inholation or contact with motorial may irritate or burn skin and eyes.	<ul> <li>ALWAYS stay away from lanks enguited in the.</li> </ul>
Fire may produce irritating, corrosive and/or toxic geses.	<ul> <li>For massive tire, use unmanned base holders or manitor nozzles; if this is impossible,</li> </ul>
Vapors may cause dizziness or suffocation.	withdraw from area and let fire burn.
Runoff from fire control or dilution water may cause pollution.	SPILLORLEAK
PUBLICSAFETY	<ul> <li>ELMINATE all ignition sources (no smoking, flares, sparks or flames in immediate srea).</li> </ul>
CALL Emergency Response Telephone Number on Shipping Paper first, if	<ul> <li>All equipment used when handling the product must be grounded.</li> </ul>
Shipping Paper not available or no answer, refer to appropriate telephone	<ul> <li>Do not touch or walk through spilled material.          <ul> <li>Stop leak If you can do it without risk.</li> <li>Material</li> </ul> </li> </ul>
number listed on the inside back cover.	<ul> <li>Prevent ontry into waterways, sewers, basements or confined steas.</li> </ul>
As an immediate procestionary measure, isolate spill or leak area for at least 50 meters	<ul> <li>A vapor suppressing foam may be used to reduce vapors.</li> </ul>
(150 feet) in all directions.	<ul> <li>Absorb or cover with dry santh, sand or other non-combustible material and</li> </ul>
Keep unauthorized personnel away.	r transfer to containers. Use clean non-sparking tools to collect absorbed material.
Stay upwind.	Large Spili
Keep out of low sreas.	<ul> <li>Dixe las shead of liquid split for later disposal.</li> </ul>
Ventilale closed spaces bafore entering.	<ul> <li>Water spray may radiuse vapor; but may not prevent ignition in closed spaces.</li> </ul>
ROTECTIVE CLOTHING	FIRSTAID
Wear positive pressure self-contained breathing apparatus (SCBA).	Move victim to fresh air. Call 911 or emergency medical service.
Structural lirefighters' protective clothing will only provide Hmited protection.	<ul> <li>Give artificial respiration if victim is not breathing.</li> </ul>
VACUATION	<ul> <li>Administer oxygen if breathing is difficult.</li> </ul>
arge Spill	<ul> <li>Remove and isolate contaminated alothing and shoes.</li> </ul>
Consider initial downwind evacuation for at loast 300 meters (1000 feet).	<ul> <li>In case of contact with substance, immediately flush skin or eves with running water for all is</li> </ul>
ire	least 20 minutes.
If lank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all	<ul> <li>Wesh skin with soap and water.</li> </ul>
directions; also, consider initial evacuation for 890 meters (1/2 mile) in all directions.	<ul> <li>In case of burns, immediately cool affected skin for as long as possible with cold water.</li> </ul>
	, Do not remove clothing if adhering to skin. • Keep victim warm and quiet.
	<ul> <li>Ensure that medical personnel are aware of the material(s) involved and take precautions</li> </ul>
	to protect themselves.

# **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 Parcel:

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. 11-06-200-058-201-47070, as to Parcel 1 Tax Item No. 11-06-200-103-201-47070, as to Parcel 2

(AFTER SITE PLAN APPROVAL AND PRIOR TO ISSUANCE OF THE LAND USE PERMIT, A PARCEL COMBINATION WILL BE COMPLETED)

# CONSTRUCTION NOTES

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

CONSTRUCTION. 4. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANI TRUCK

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.

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 PROJECT

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

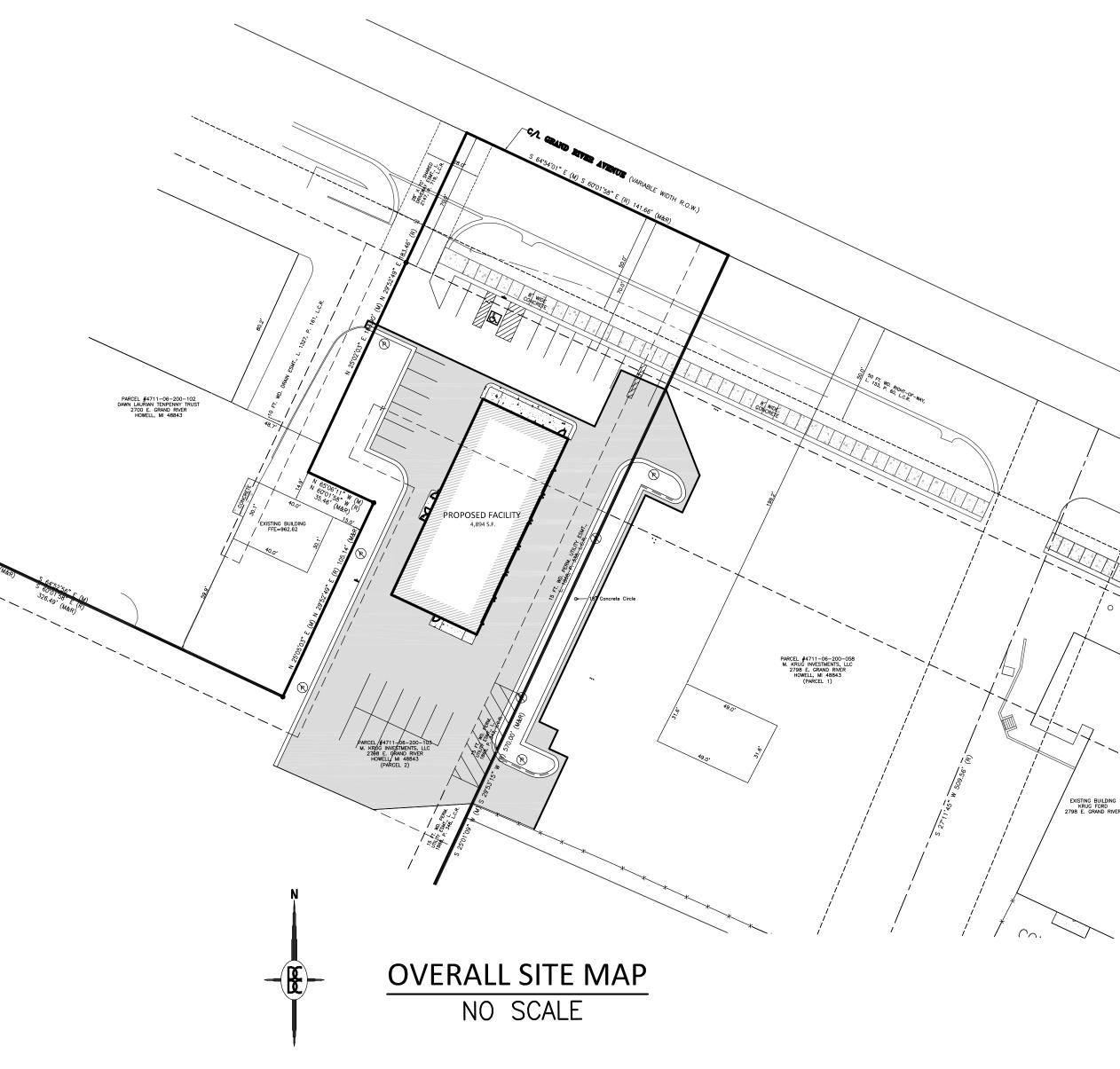
29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR TO COMPACTING.

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 MUTCO MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.

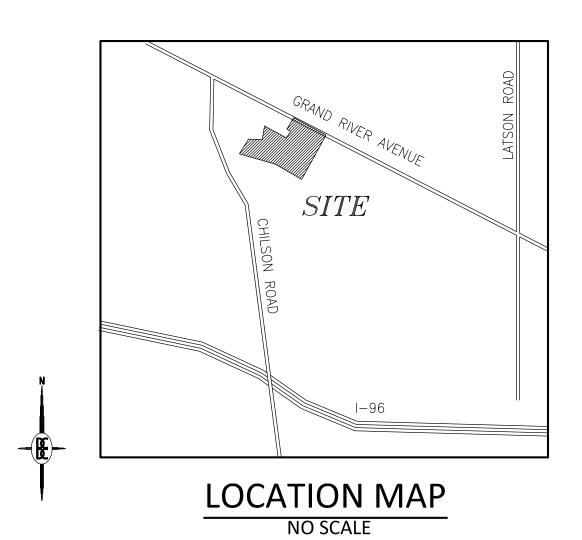
# SITE / CONSTRUCTION PLANS FOR KRUG QUICK LANE PART OF NE 1/4 SEC. 6, T.2N., R.6E. GENOA TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN



AJ DESIGN 2803 GREENLAWN COMMERCE, MI 48382 PHONE: 248-672-7866

# 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.



# SHEET INDEX

SHEET NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14	COVER SHEET EXISTING CONDITIONS & DEMOLITION PLAN SITE PLAN GRADING, DRAINAGE & SOIL EROSION CONTROL PLAN UTILITY PLAN LANDSCAPE PLAN LIGHTING PLAN CONSTRUCTION NOTES & DETAILS CONSTRUCTION NOTES & DETAILS MHOG SANITARY SEWER DETAILS MHOG WATER SERVICE DETAILS OVERALL SITE PLAN STORM SEWER PLAN & PROFILE SANITARY SEWER PLAN & PROFILE
	DRAWINGS PREPARED BY ARCHITECT
A1.01 A2.01	FLOOR PLAN EXTERIOR ELEVATIONS

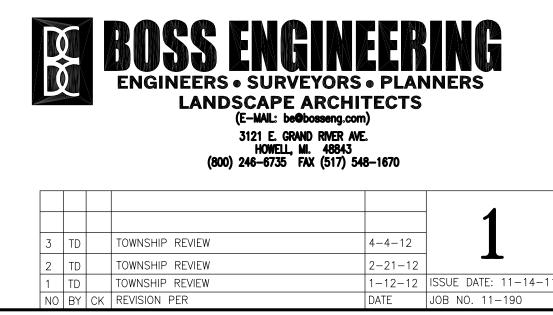
# **KRUG QUICK LANE**

# **OWNER:**

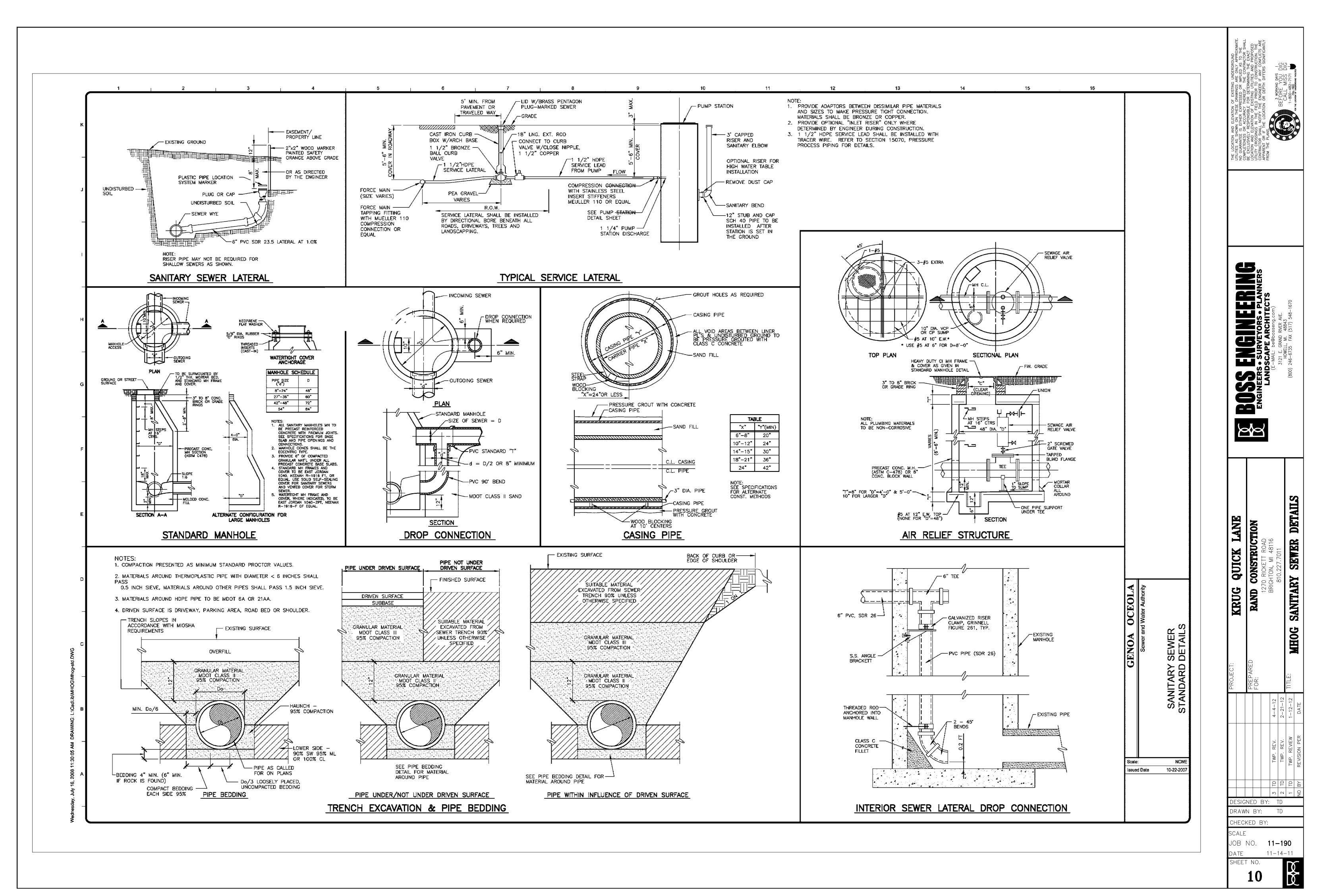
M. KRUG INVESTMENTS, LLC 2798 E. GRAND RIVER HOWELL, MICHIGAN 48843 CONTACT: MR. MIKE KRUG PHONE: 517-546-0244

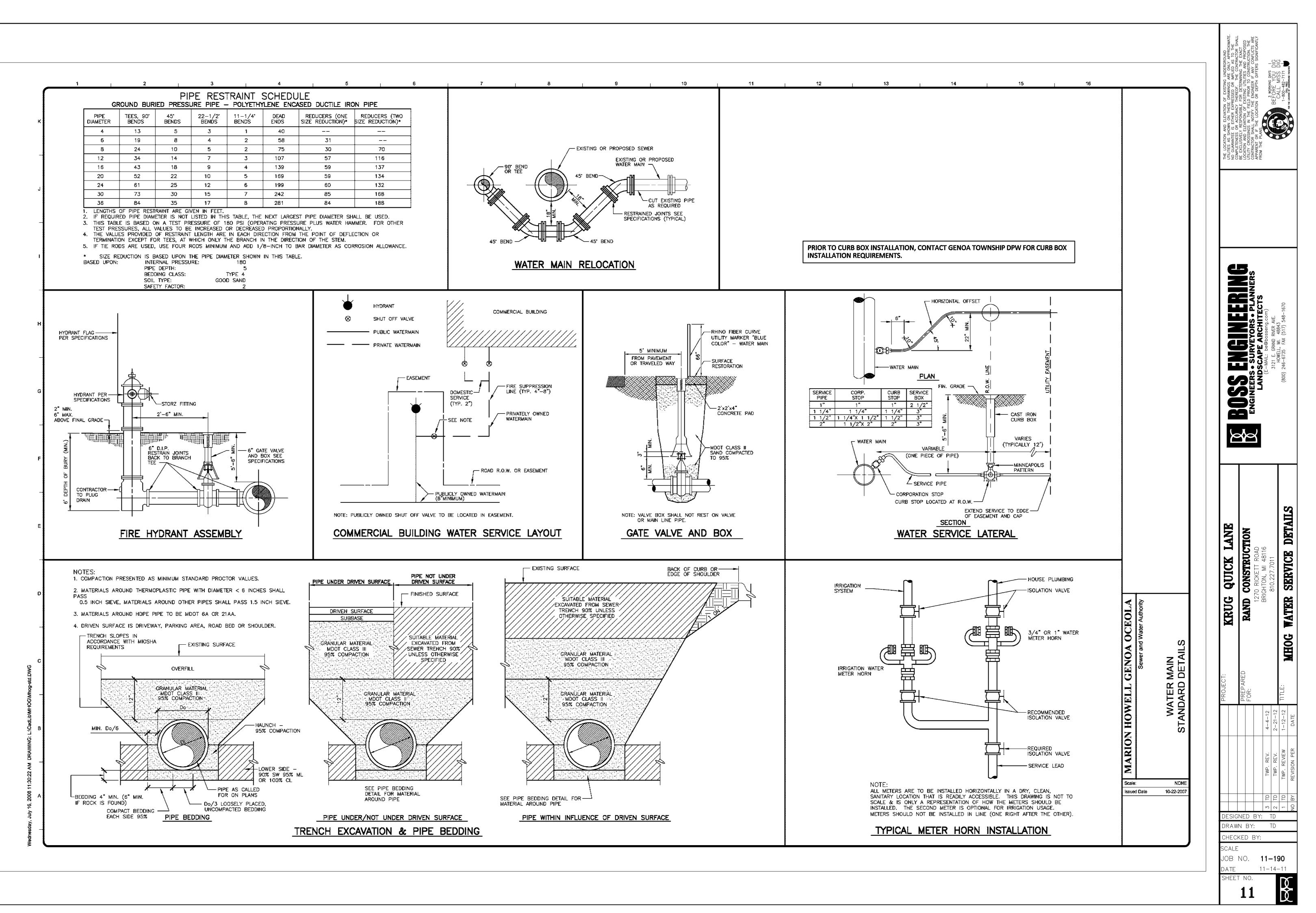
**CONSTRUCTION MANAGER:** RAND CONSTRUCTION 1270 RICKETT ROAD BRIGHTON, MICHIGAN 48116 CONTACT: MR. ANDY KLEIN PHONE: 810-227-7011

# **PREPARED BY:**

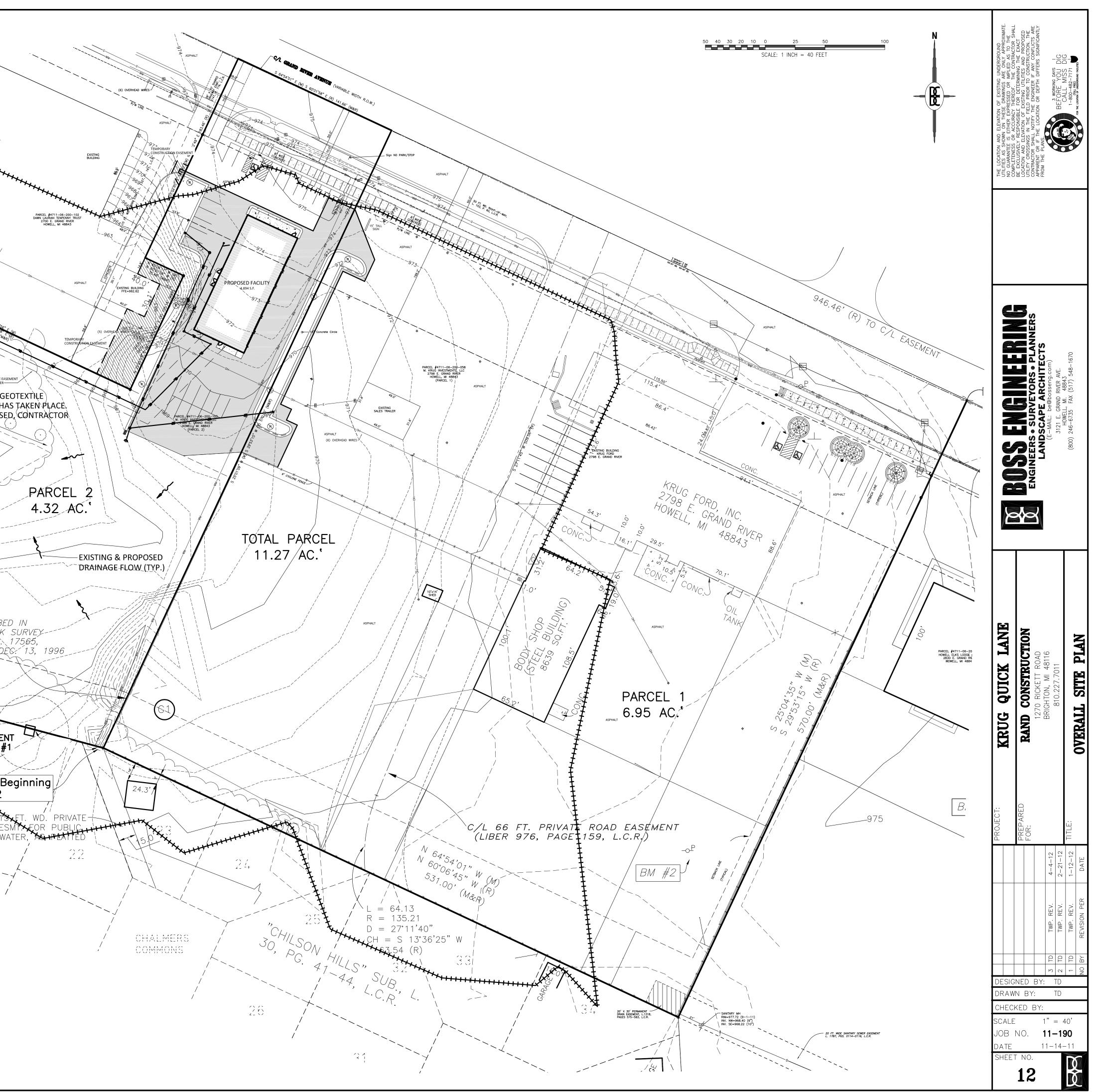


# **ARCHITECT:**

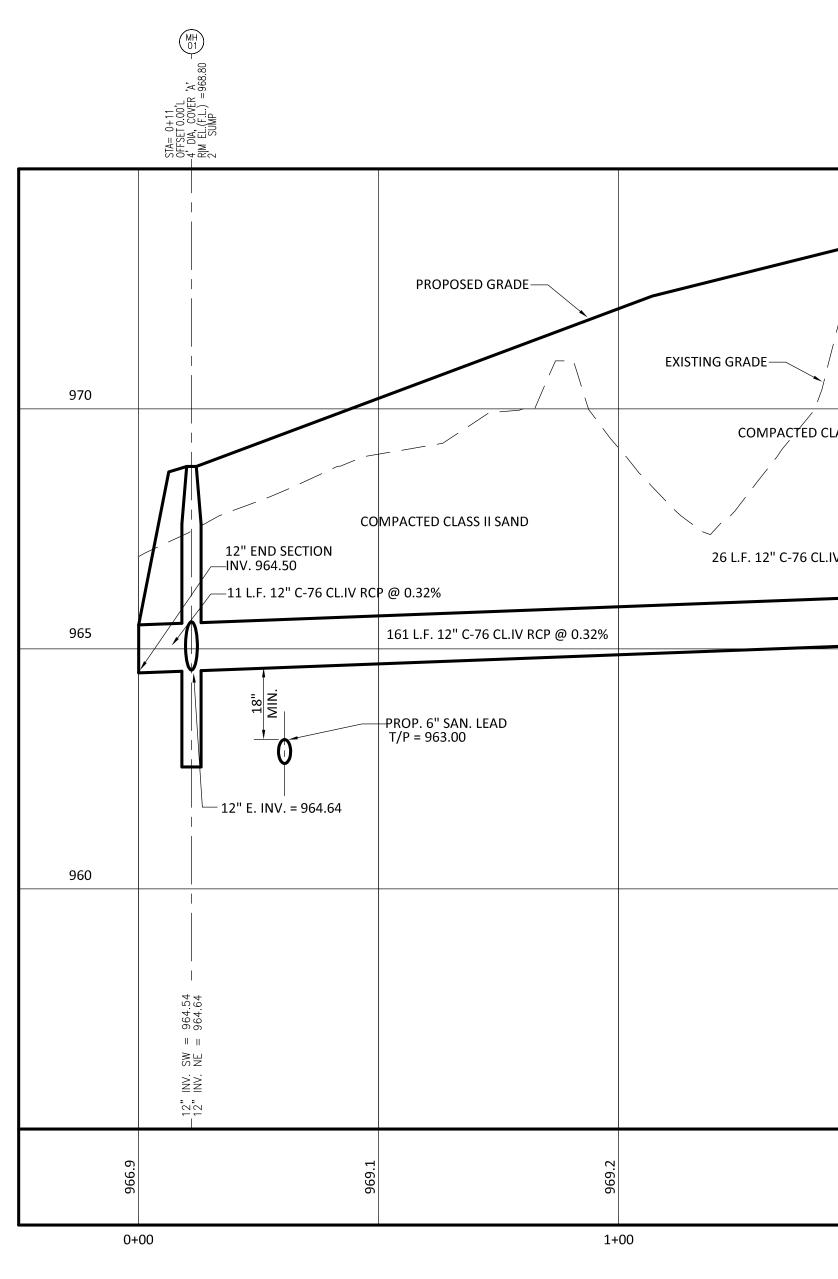




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# STORM SEWER PROFILES SCALE: HORIZ. 1" = 20', VERT. 1" = 2'



3. ALL STORM SEWER & CULVERT PIPE NOTED AS "CSP" ON PLAN SHALL BE CORRUGATED STEEL, GALVANIZED CLASS "B" PIPE WITH REFORMED ENDS. SLEEVE GASKETS AND EXTRA WIDE, MECHANICALLY TIGHTENED CORRUGATED BAND CONNECTION JOINTS, UNLESS OTHERWISE SPECIFIED ON PLAN. 4. ALL OPEN INLET OR OUTLET END OF STORM SEWER AND CULVERTS

PIPE WITH WATERTIGHT PREMIUM JOINTS, UNLESS OTHERWISE NOTED ON

- SHALL INCLUDE PREFAB FLARED END SECTION AND MINIMUM 10 SQ. YD. OF PLAIN COBBLESTONE RIP-RAP (6" INCH MIN. SIZE), UNLESS

CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.

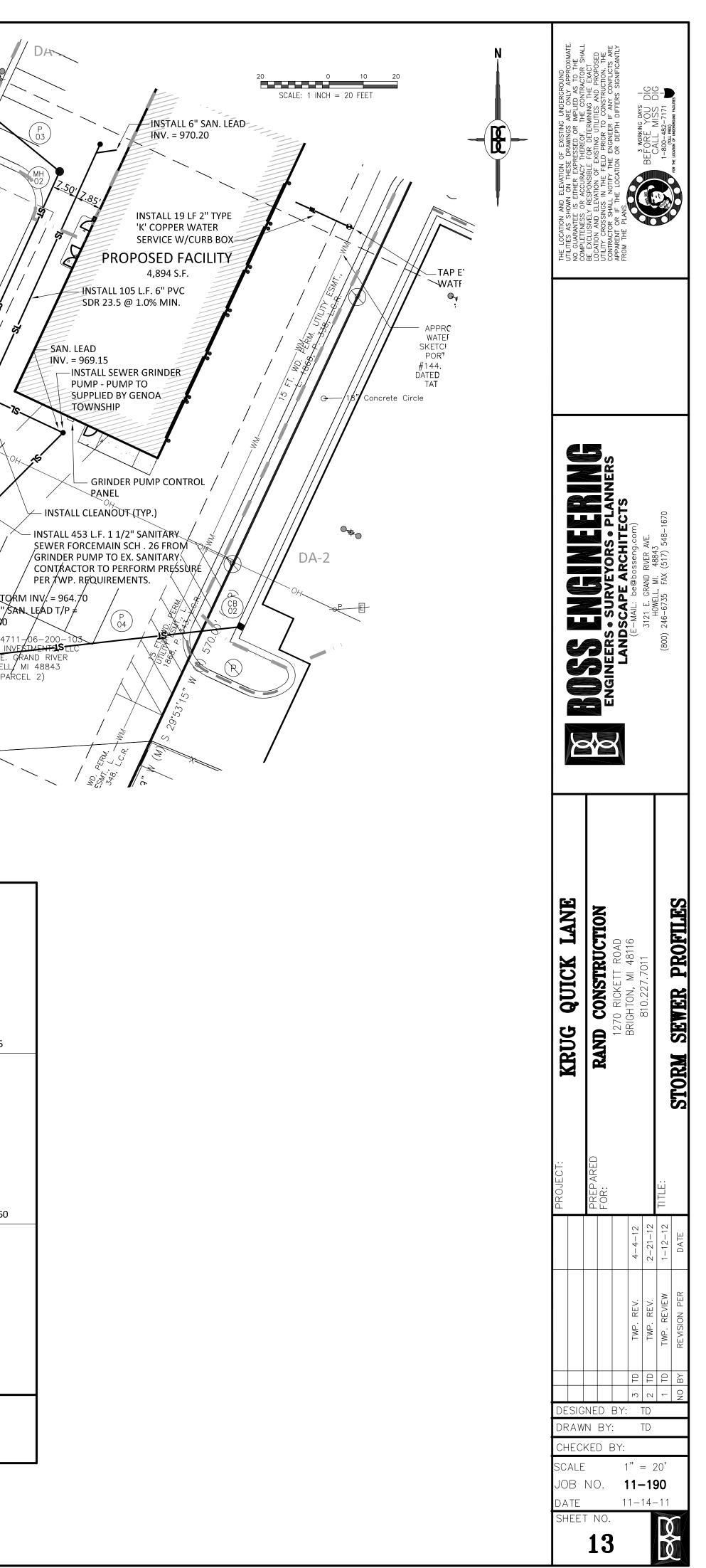
- OTHERWISE SPECIFIED.
- 5. ALL CATCH BASINS WITHIN ROADWAY SHALL INCLUDE INSTALLATION OF 6" DIA. PERFORATED PIPE SUBDRAIN AS SHOWN ON PLANS. 6. APPROPRIATE SOIL EROSION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO BEGINNING CONSTRUCTION AND CONTINUOUSLY MAINTAINED BE

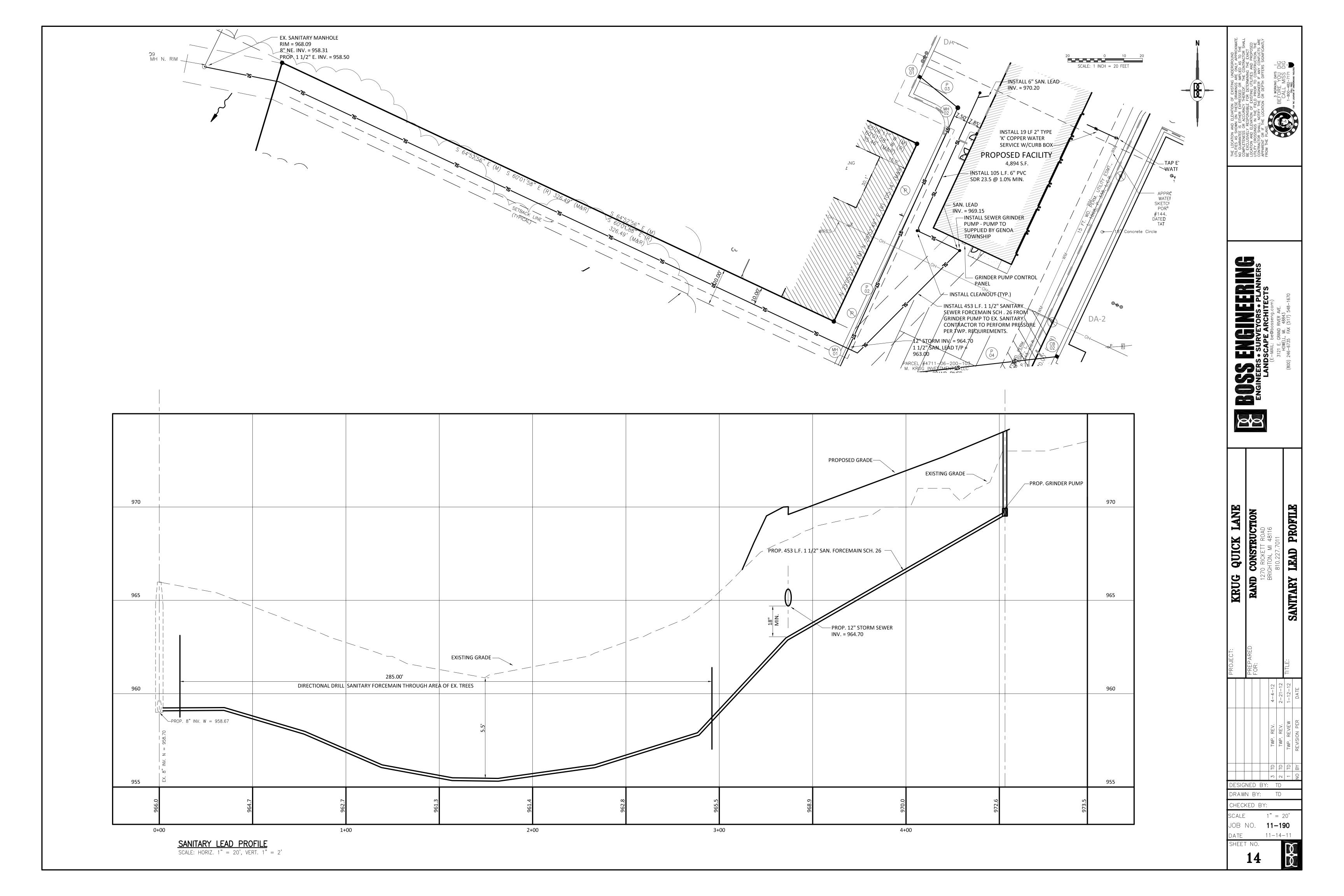
# STORM SEWER NOTES

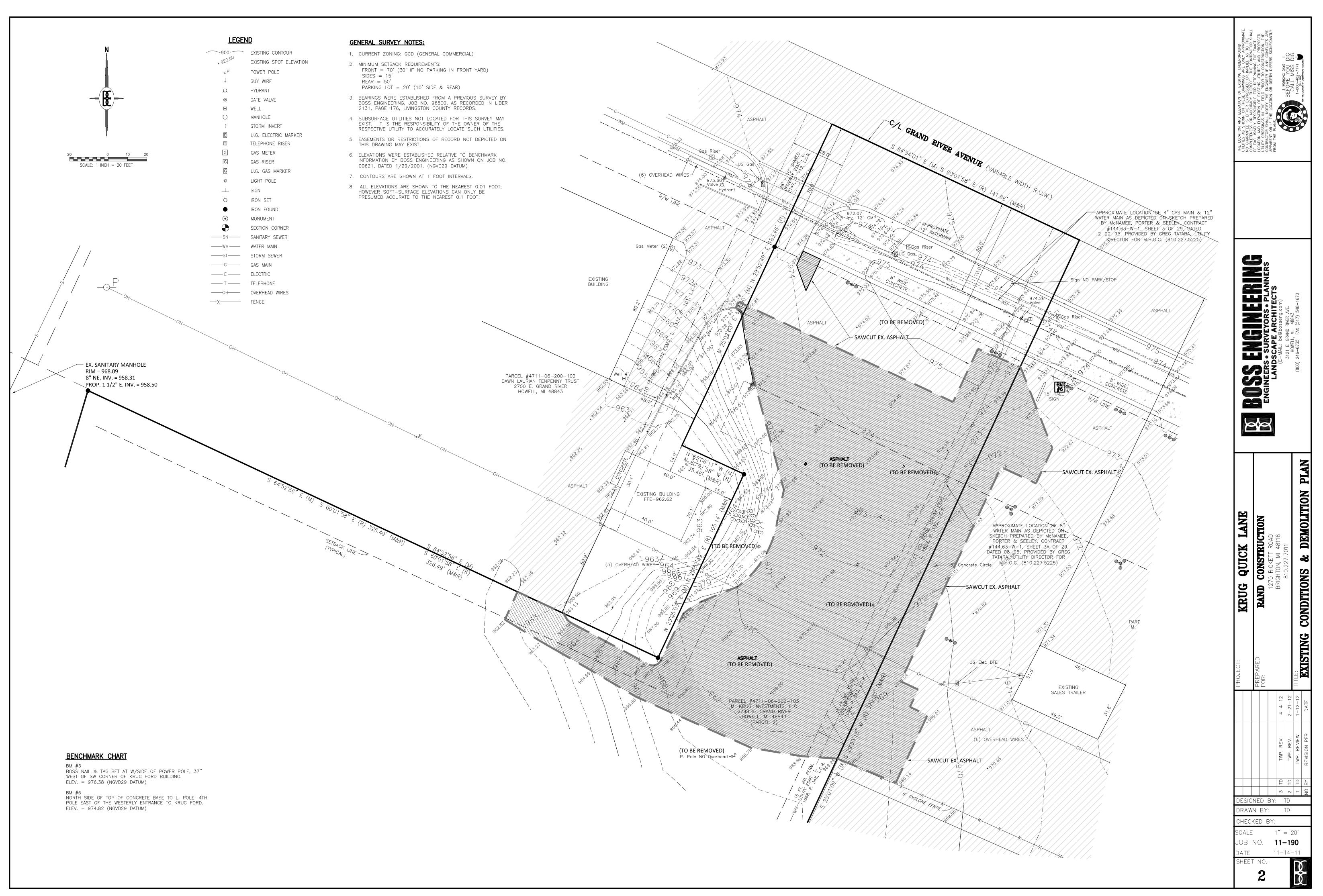
PLAN.

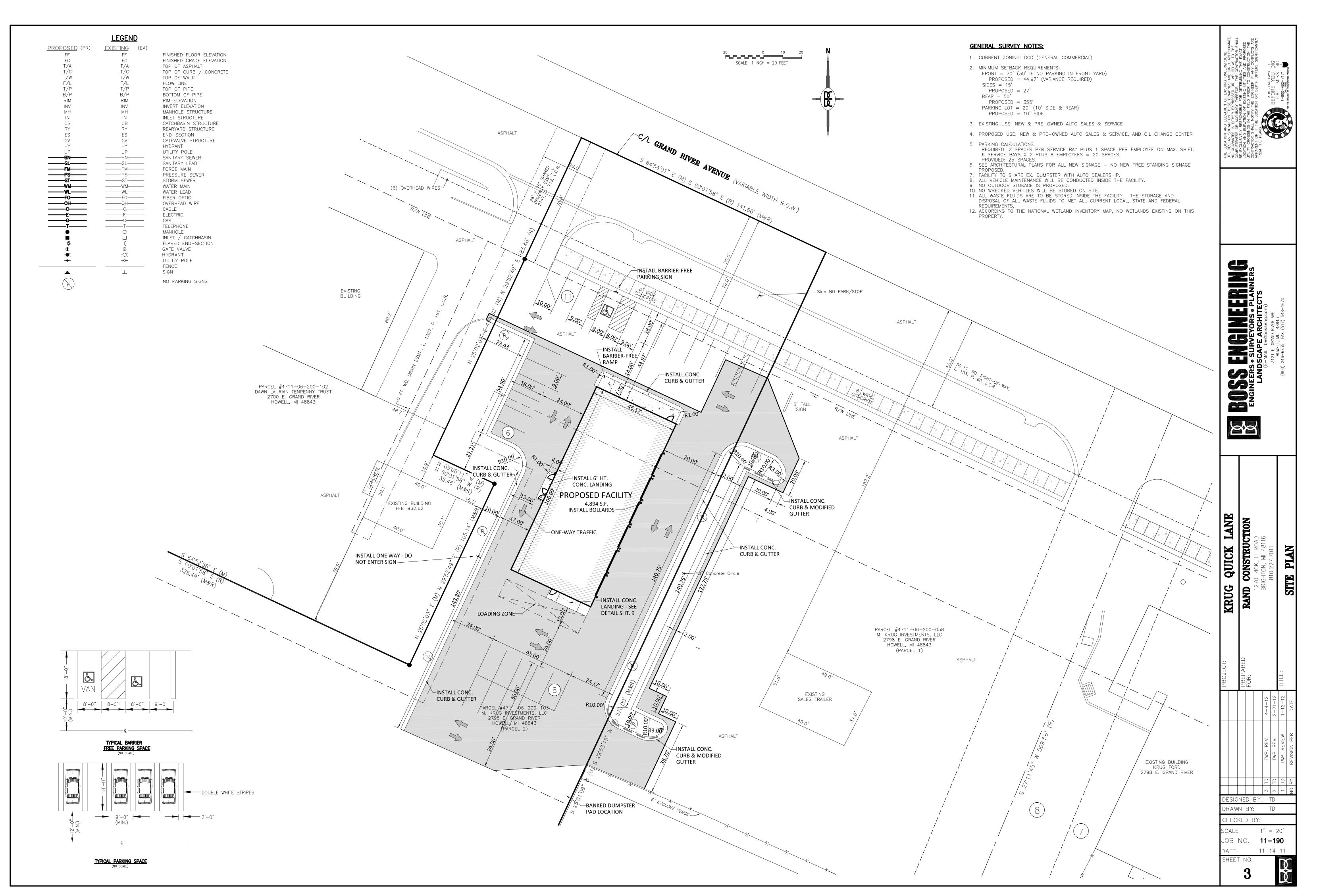
- 1. ALL PIPE LENGTHS SHOWN ARE FROM C/L TO C/L OF STRUCTURE OR FROM C/L OF STRUCTURE TO DISCHARGE END OF FLARED END SECTION. 2. ALL STORM SEWER PIPE SHALL BE C-76, CL. IV REINFORCED CONCRETE

			r S S S S S S S S S S S S S S S S S S S	65:06:17: W W 65:06:17: W W 55:26:10:00 1	
CLASS II SAND	00+0	R SEE SHEET 9 JLATIONS VIII WIL PROPOSED GRADE COMPACTED	EXISTING GRADE CLASS II SAND	STA= 1+21 OFFSET 0.00 <sup>1</sup> L OFFSET 0.00 <sup>1</sup> L STA= 1+21 OFFSET 0.00 <sup>1</sup> L STA= 1+21 STA= 1	12" STOP 1 1/2" ST 963.00 ARCEL #471 4. KRUG INV 27/98 E. C HOWELL/ (PAR
IV RCP @ 0.32%	965 965	121 L.F. 12" INV. SW = 964.54 12" INV. NE = 964.64	12" C-76 CL.IV RCP @ 0.32%		965
-12" INV. SW = 965.15		12" INV. E = 964.64		12" INV. W = 965.02	960
973.0		0+00 967.4 969.2	4.696 1+		

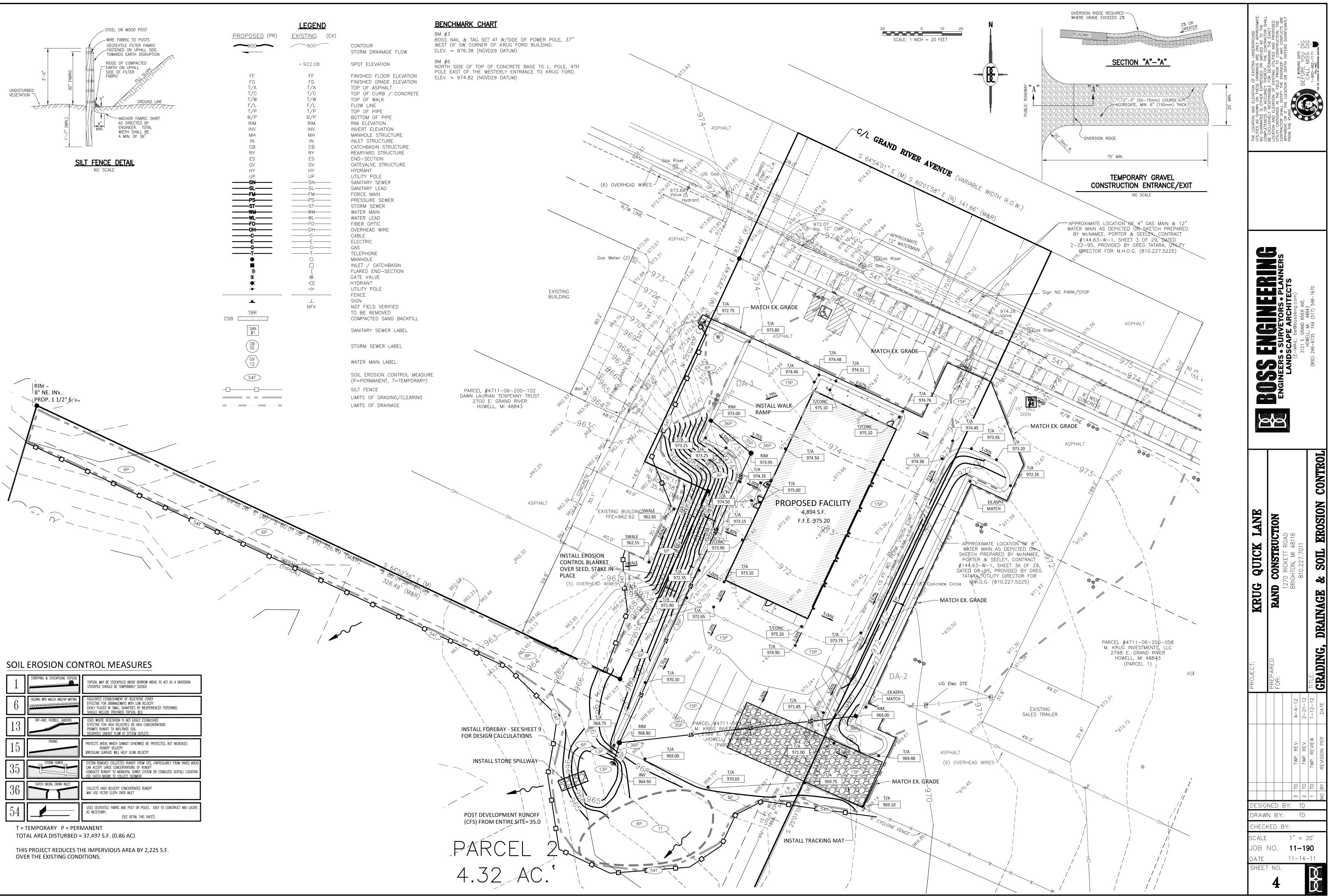




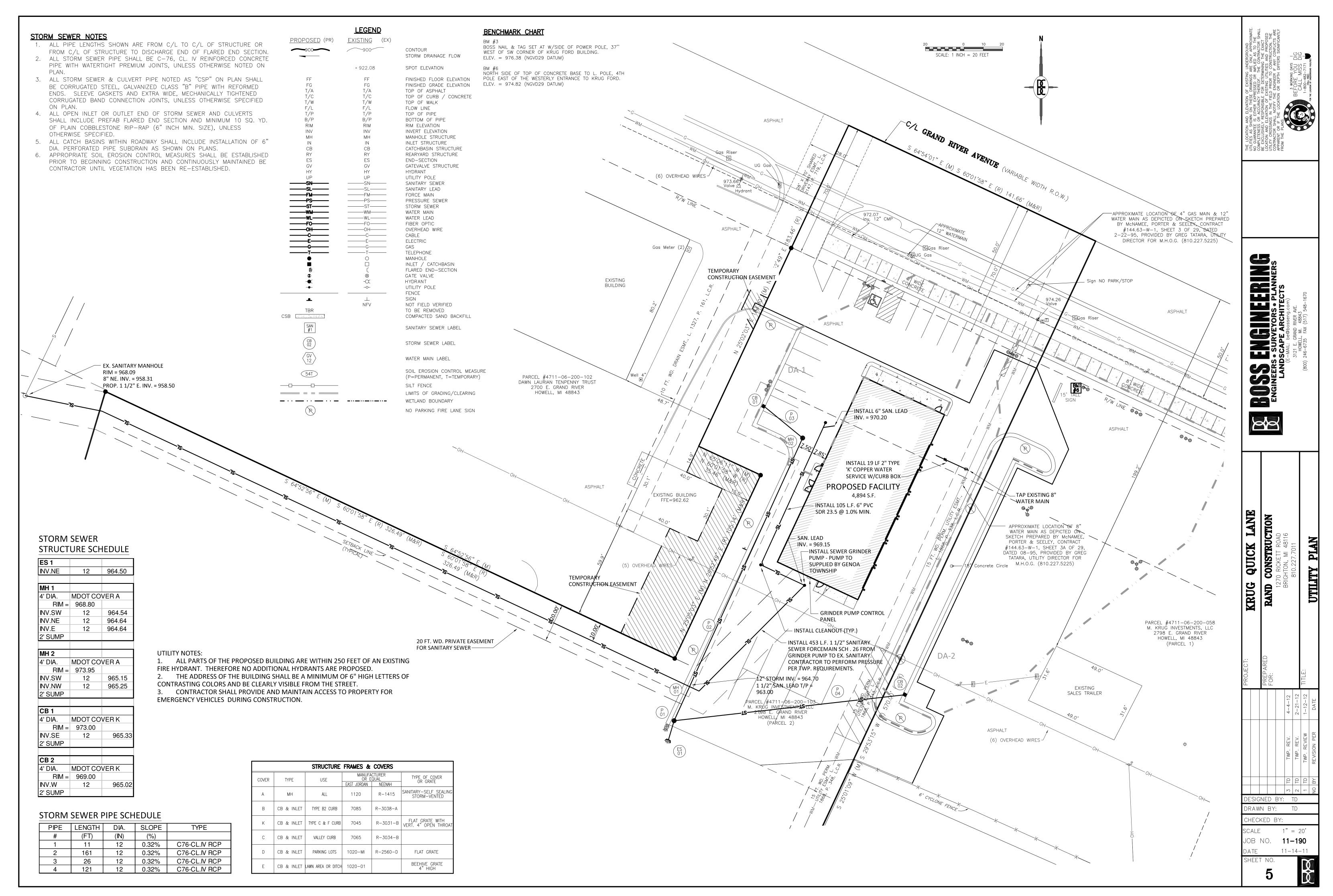


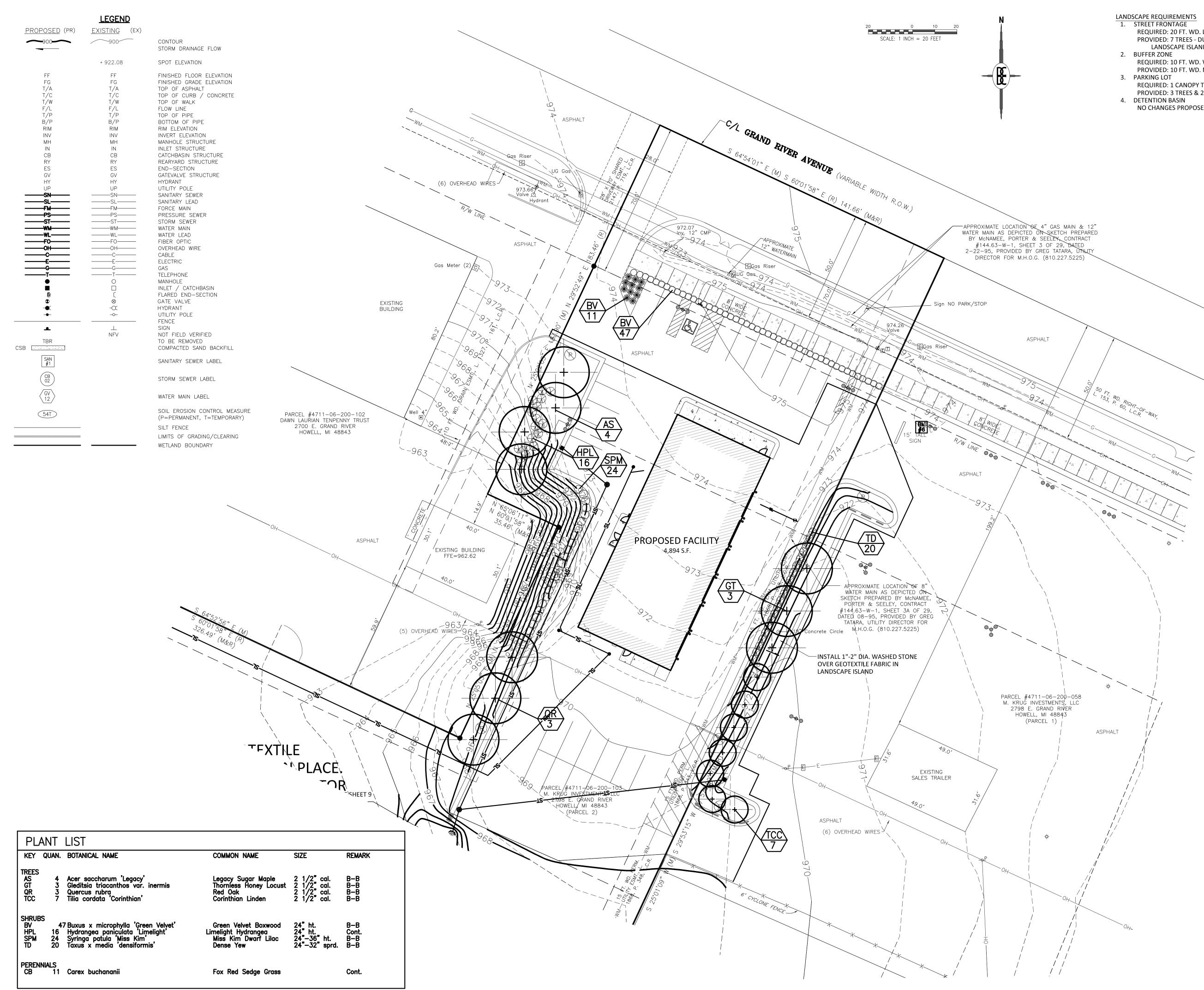


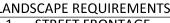
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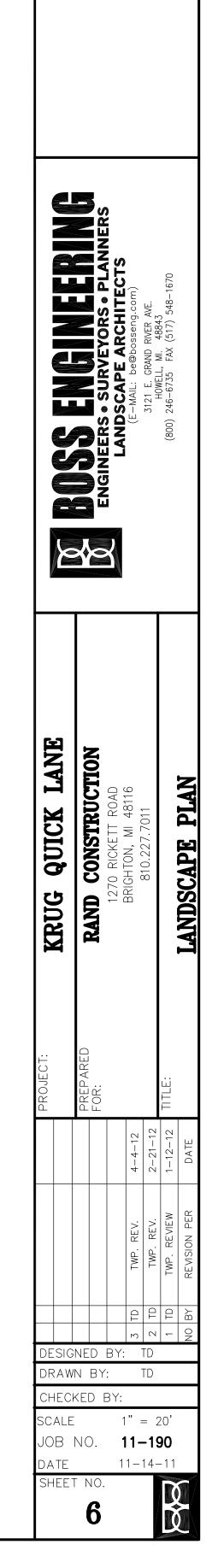
1		TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVERSION STOCKPILE SHOULD BE TEMPORARILY SEEDED
6	SEEDING WITH MULCH AND/OR MATTING	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCITY EASILY PLACED IN SMALL QUANTITIES BY INEXPERIENCED PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL BED
13	RIP-RAP, RUBBLE, GABIONS	USED WHERE VEGETATION IS NOT EASILY ESTABLISHED EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS PERMITS RUNOFF TO INFILTRATE SOIL DISSIPATES ENERGY FLOW AT SYSTEM OUTLETS
15	PAVING	PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED, BUT INCREASES RUNOFF VELOCITY IRREGULAR SURFACE WILL HELP SLOW VELOCITY
35	C.B. STORM SEWER C.B.	SYSTEM REMOVES COLLECTED RUNOFF FROM SITE, PARTICULARLY FROM PAVED AREAS CAN ACCEPT LARGE CONCENTRATIONS OF RUNOFF CONDUCTS RUNOFF TO MUNICIPAL SEWER SYSTEM OR STABILIZED OUTFALL LOCATION USE CATCH BASINS TO COLLECT SEDIMENT
36	CATCH BASIN, DRAIN INLET	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF MAY USE FILTER CLOTH OVER INLET
54		USES GEOTEXTILE FABRIC AND POST OR POLES. EASY TO CONSTRUCT AND LOCATE . AS NECESSARY. (SEE DETAIL THIS SHEET)



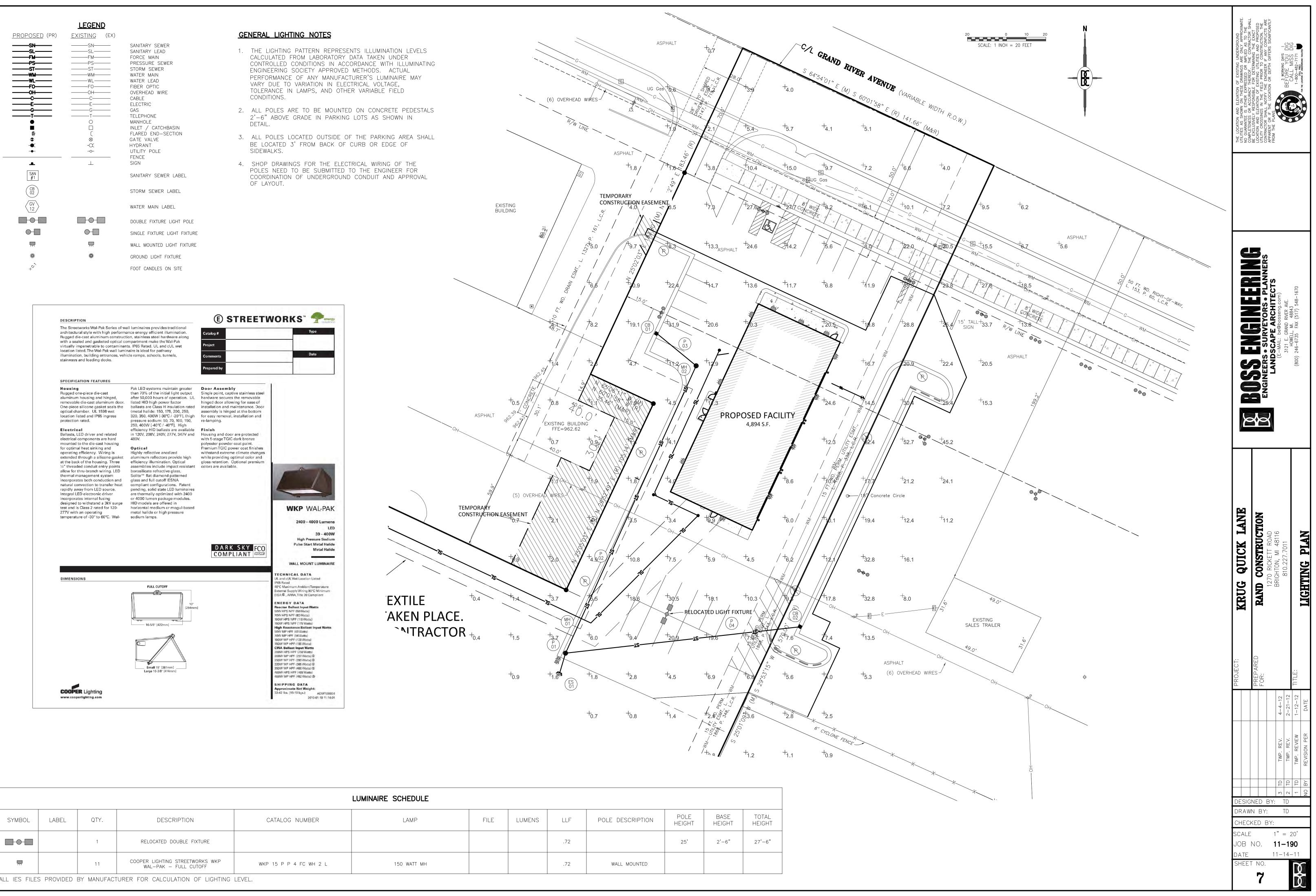




- REQUIRED: 20 FT. WD. LANDSCAPE STRIP W/1 TREE PER 40 L.F. & 2 FT. HT. HEDGE ROW PROVIDED: 7 TREES - DUE TO EX. CONDITIONS REQUIRED TREES MOVED TO NEW LARGE LANDSCAPE ISLAND IN PARKING LOT. HEDGE ROW PROVIDED.
- REQUIRED: 10 FT. WD. W/1 TREE OR 4 SHRUBS PER 20 L.F. (214/20 =11 TREES) PROVIDED: 10 FT. WD. MIN., 7 TREES & 40 SHRUBS
- REQUIRED: 1 CANOPY TREE & 100 S.F. PER 10 SPACES (25 SPACES/10 = 3 TREES & 300 S.F.) PROVIDED: 3 TREES & 2,250 S.F.
- NO CHANGES PROPOSED FOR DETENTION AREA.



-D



	LUMINAIRE SCHEDULE											
SYMBOL	LABEL	QTY.	DESCRIPTION	CATALOG NUMBER	LAMP	FILE	LUMENS	LLF	POLE DESCRIPTION	POLE HEIGHT	BASE HEIGHT	TOTAL HEIGHT
		1	RELOCATED DOUBLE FIXTURE					.72		25'	2'-6"	27'-6"
<b>T</b>		11	COOPER LIGHTING STREETWORKS WKP WAL-PAK - FULL CUTOFF	WKP 15 P P 4 FC WH 2 L	150 WATT MH			.72	WALL MOUNTED			
ALL IES FILES	ALL IES FILES PROVIDED BY MANUFACTURER FOR CALCULATION OF LIGHTING LEVEL.											

#### 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.

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 6 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.

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. SOIL EROSION CONTROLS SHALL BE MONITORED DAILY BY THE 13 ON-SITE ENGINEER, OR CONTRACTOR, WHICHEVER CASE APPLIES.

## 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.

DITCHES WITH STEEP SLOPES WILL NEED FLOW CHECKS TO PREVENT 15. SCOURING OF THE DITCH BOTTOM. THESE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR INSPECTOR

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 17 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 18. BALE BARRIER AND STONE FILTER INSTALLED AROUND THE INLET DURING UCTION. 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 EACH RAINFALL COUNTY CODE REQUIRES A MINIMUM PIPE SIZE OF 12" IN DIAMETER. 20. 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.

# CONSTRUCTION SEQUENCE

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, EGULATIONS, AND ORDINANCES IS MAINTAINED THROUGHOUT EXECUTION OF THIS ROJECT

#### INSTALL SILT FENCE AS SHOWN ON PLANS. DAYS ROUGH GRADE AND INSTALL STORM DRAINAGE DAYS

- INSTALL INLET PROTECTION ON STORM INLETS. START BLDG. CONSTRUCTION 180 DAY
- 4 DAYS INSTALL PAVEMENT 4 DAYS

1 DAY

1 DAY

ACTIVITY

IAINTAIN

LANDSCAPING,

CLEAN INLETS

COLLECT LITTER

SWEEP PARKING

REPLACE MULCH

FINE GRADE AROUND BUILDING, SPREAD TOPSOIL, SEED OR SOD AS APPLICABLE. REMOVE ALL EROSION CONTROL STRUCTURES. REMOVE ACCUMULATED SILT FROM ALL EXISTING DRAINAGE

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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 THF 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

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 36" M.D.O.T SPECIFICATION TYPE SILT FABRIC FENCE AS SHOWN ON PLANS CONSTRUCTION, WIDTH SHALL INCREASE AS DISTANCE FROM THE OUTLET

FILLED AND RIP RAPPED WITH COBBLE STONE. SILT TRAPS SHALL BE

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 28

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 29. 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 FEFECTIVENESS 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. 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 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

FFRTILI7FR 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 TACKIFIFR.

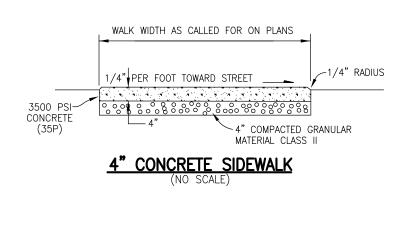
SANITARY SEWERS SANITARY SEWER TAP TO THE

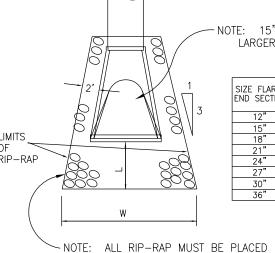
\_\_\_\_ SANITARY COUNTY DRAIN, SHALL ONLY BE MADE AFTER SECURING IN WRITING \_ TOWNSHIP AND A SEWER TAP CLEARANCE FROM THE \_ PERMIT FROM THE LIVINGSTON COUNTY DEPARTMENT OF BUILDING & SAFFTY

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.





OVER KEYED IN GEO-FABRIC TYPICAL RIP-RAP DETAIL (SCALE: NONE)

CONTROL CONTROLS & MEASURES POST CONSTRUCTION SEQUENCE WEEKLY MONTHLY AS REQUIRE

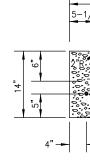
MAINTAIN LANDSCAPING, REPLACE MULCH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOD, TREES AND SHRUBS.				
CLEAN INLETS	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.				
COLLECT LITTER	DISPOSE OF WITH INLET DEBRIS.				
SWEEP PARKING LOT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

LS	38	MEAS	SURES	١	ARRAT	IVE	
			-				
AS /	APPLI	CABLE.					

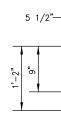
_S &	MEASURES NARRATIVE
/	DESCRIPTION
.CH	COLLECT GRASS, TREE, AND SHRUB CLIPPINGS. DISPOSE IN APPROVED CONTAINER. REPLACE DEAD SOD, TREES AND SHRUBS.
	REMOVE LITTER, SEDIMENT, AND DEBRIS. DISPOSE OF IN APPROVED LANDFILL.

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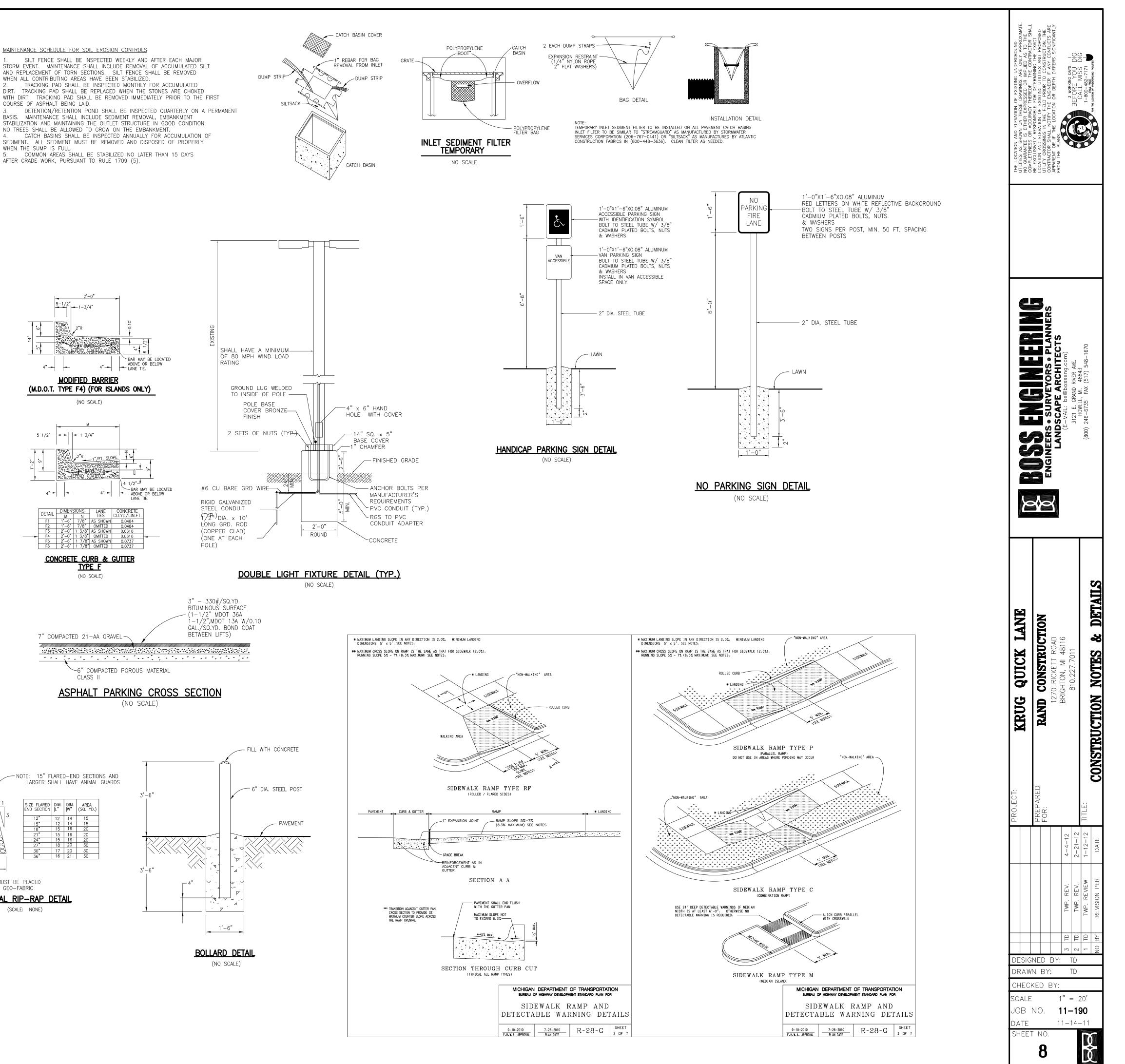
COURSE OF ASPHALT BEING LAID. WHEN THE SUMP IS FULL.









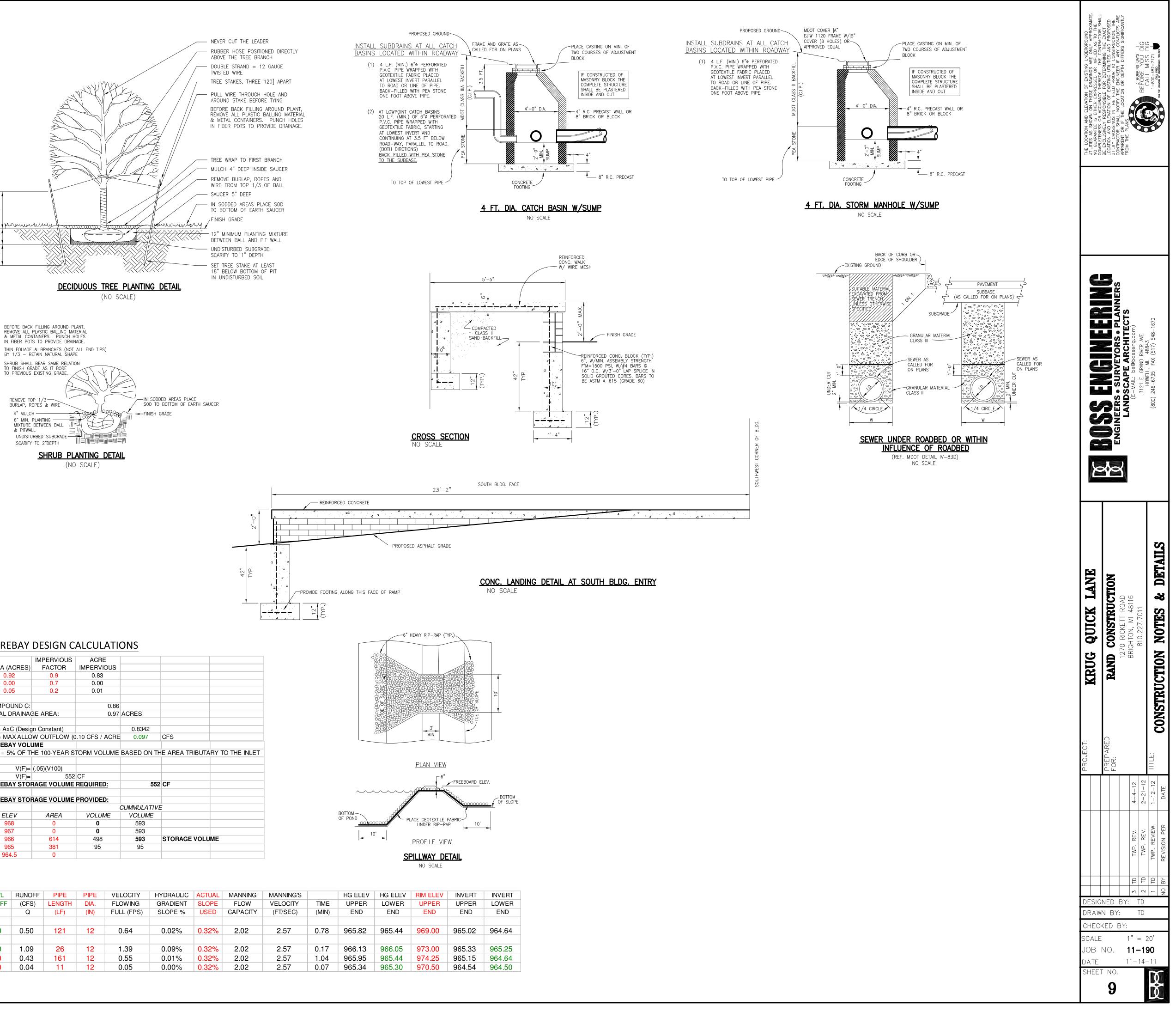


# GENERAL LANDSCAPE NOTES:

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 SHALL
	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

- ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED STUC 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 BELOW).
- 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) 30% RUBY RED OR DAWSON RED FINE FESCUE 30% 20% ATLANTA RED FESCUE 20% 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 10-20- 10 ANALYSIS:
- 10% NITROGEN: A MINIMUM OF 25% FROM A UREAFORMALDEHYDE SOURCE 20% 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.

# Mangenand and the (NO SCALE)

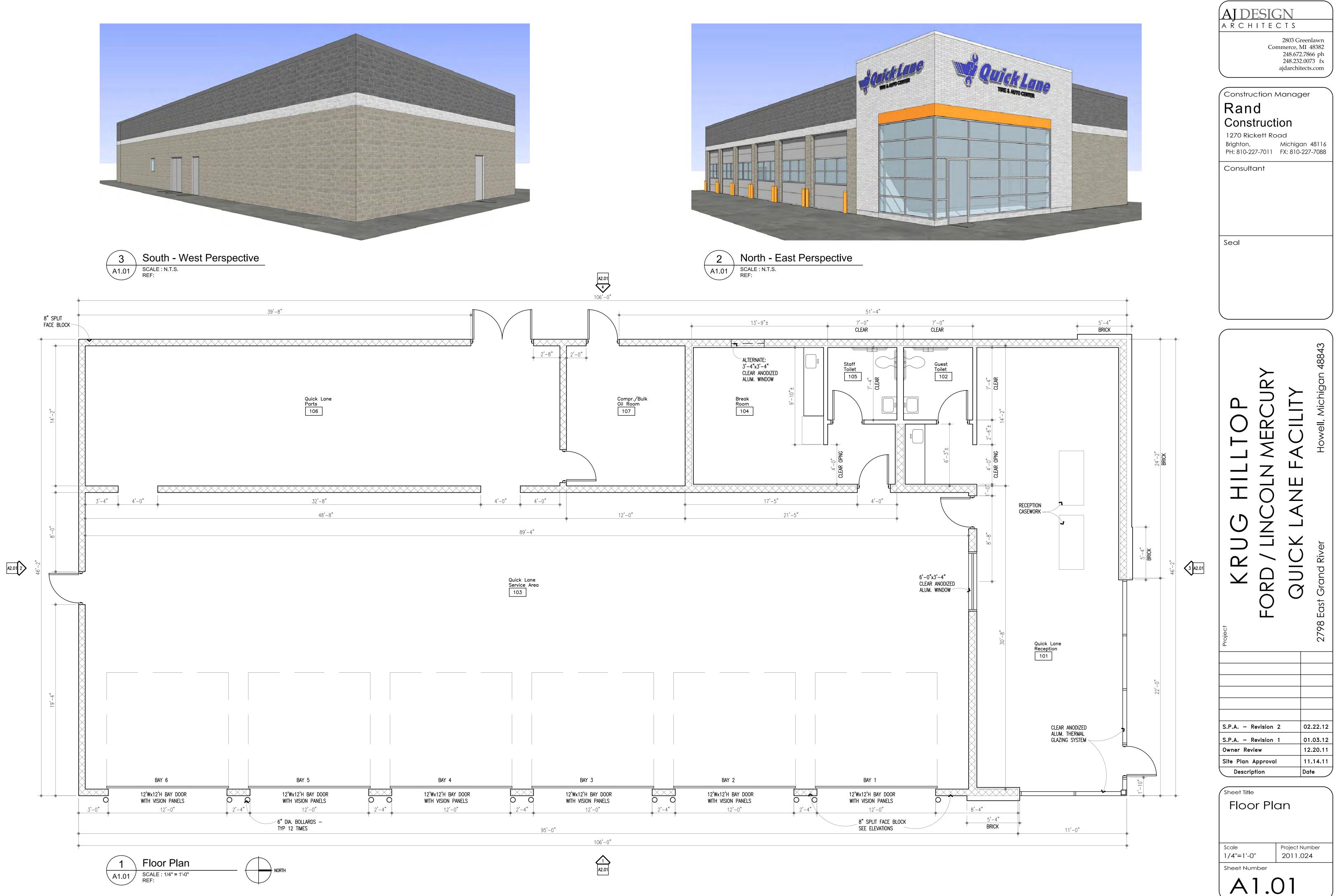


# FOREBAY DESIGN CALCULATIONS

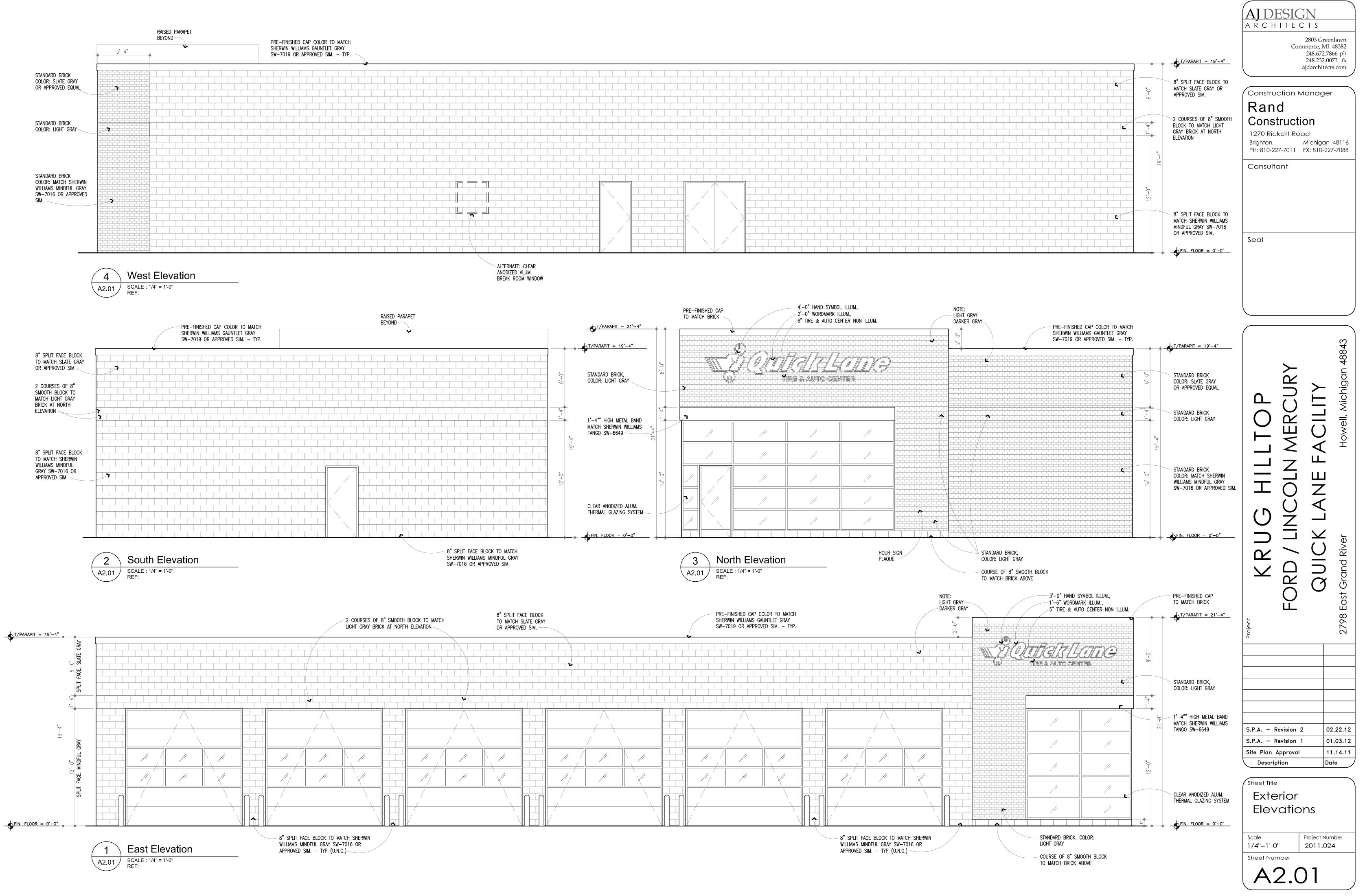
	IMPERVIOUS	ACRE		
AREA (ACRES)	FACTOR	IMPERVIOUS		
0.92	0.9	0.83		
0.00	0.7	0.00		
0.05	0.2	0.01		
COMPOUND C:		0.86		
TOTAL DRAINAG	GE AREA:	0.97	ACRES	
K1 AxC (Decis	n Constant)		0.8342	
K1 = AxC (Desig				050
Qa = MAX ALLO		10 CFS / ACRE	0.097	CFS
FOREBAY VOLU	-			
V(F) = 5% OF TI	HE 100-YEAR S	TORM VOLUME	BASED ON TH	IE ARE
V(F)=	(.05)(V100)			
V(F)=	552	CF		
FOREBAY STO	RAGE VOLUME	REQUIRED:	552	CF
FOREBAY STO	RAGE VOLUME			
			CUMMULATIVE	
ELEV	AREA	VOLUME	VOLUME	
968 0		0	593	
967	0	0	593	
966	614	498	593	STOF
965	381	95	95	
964.5	0			

# STORM SEWER DESIGN CALCULATIONS

				AREA	AREA	RUNOFF	EQUIV.	INTEN-	TIME OF	ADD'L	RUNOFF	PIPE	PIPE	VELOCITY	HYDRAUL
FROM	TO	DRAIN	ACRES	IMPERV	PERV	COEFF	AREA	SITY	CONC.	RUNOFF	(CFS)	LENGTH	DIA.	FLOWING	GRADIEN
		AREA	Α	0.9	0.2	С	A * C	I	T <sub>C</sub>	Q	Q	(LF)	(IN)	FULL (FPS)	SLOPE %
CB-2	MH-1	2	0.4	0.05	0.35	0.29	0.115	4.38	15.00	0.00	0.50	121	12	0.64	0.02%
CB-1	MH-2	1	0.15	0.15	0	0.90	0.135	4.38	15.00	0.00	1.09	26	12	1.39	0.09%
MH-2	MH-1	3	0.11	0.11	0	0.90	0.099	4.36	15.17	0.00	0.43	161	12	0.55	0.01%
MH-1	ES-1		0.01	0.01	0	0.90	0.009	4.25	16.21	0.00	0.04	11	12	0.05	0.00%







## MEMORANDUM

TO: Township Board

FROM: Michael Archinal

DATE: 5/4/12

RE: Genoa Park Sign

Please find attached an estimate from Lindhout Associates for the proposed Genoa Park sign facing I-96. Previous presentations to the Board anticipated a budget of approximately \$25,000. The estimate, with solar lighting and custom signage by Sign Works, is for \$44,318.10. Because of the small scope of this project there is a large contingency of 20% related to wall construction and site work. This contingency is equal to \$5,286. Removing the contingency puts the project cost in the upper \$30,000 range.

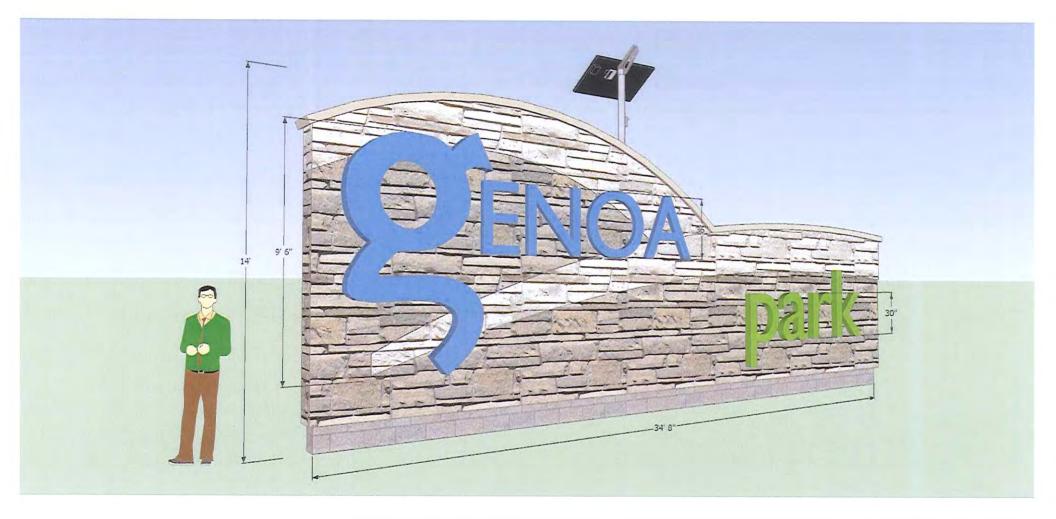
Although this estimate is higher than anticipated I believe the benefits of the project warrant the increased expenditure. As the concept of branding has developed we recognize the Township Hall/Park property as our most visible asset. The playground, lighted athletic fields, walking paths, large American flag, beautiful Township Hall and wind turbines have created significant interest in the property. These assets should be considered economic development tools that make Genoa Charter Township a desirable place to live and work. In addition to providing way finding for motorists I believe identifying ourselves as, "Genoa Township" is a key part of an economic development strategy.

We have all attended conferences where people ask, "Where is Genoa Township?" My usual response is, "Livingston County between Brighton and Howell." Or, "We are one half-hour north of Ann Arbor." Next time you are asked this question tell them, "the building with the five wind turbines and the big American flag. Every time I have said this the person knew exactly where I was talking about. I feel we should use our visibility on I- 96 to its full advantage.

Even though the estimate is higher than expected I believe the project still has value. Given the high contingency amount and a competitive construction climate I recommend we send the sign out for bids to test the market. The decision to move forward can be made when we have actual construction numbers.

Please consider the following action:

Moved by , supported by , to direct staff to draft a request for proposals for the construction of a Genoa Park identification sign.



# **PROBABLE COST STATEMENT**

## Lindhout Associates architects aia pc

10465 citation drive, brighton, mi 48116

PROJECT NAME: Genoa Township Sign

www.lindhout.com

810-227-5668 (fax) 810-227-5855

COMM. NO. 1048

DATE:5-2-2012

### PRELIMINARY STATEMENT OF PROBABLE CONSTRUCTION COSTS

	D BUILDING DATA			BLDG. TYPE	ENTER SYMBOL In C	aps	
	GROUND FLOOR AREA		SF				
	MEZZANINE LEVEL		0 SF				
	GROSS SQUARE FEET		0 SF			Averages are used in	n Column M
	BASEMENT AREA		0 SF				
	NO. STORIES ABOVE GRADE		0			GoTo Building Type	Worksheet
	BUILDING PERIMETER		0 LF			to Copy, Paste a spec	cific project
	FLOOR TO FLOOR HEIGHT		0 FT			%'s to "to ESTIMATE	
	BUILDING SITE AREA		0 SF	-		if more suited to proje	ect at hand
ed Figure	as are updated to R.S. Means 2011			Protected Cell			Avg
= updat	ed per R.S. Means index 2011	-					% of
VISION							Contr. Co
	GEN. COND. / CONTR. FEE		% TOTAL G.C	\$0.00 . + FEE			0.00 #1
OMPON	ENT DESCRIPTION	UNIT	s	UNIT COST	TOTAL		
Sim On							
VISION	02 - SITEWORK	-		2 m	22.52		
	SITE EXCAVATION/GRADING		1 LS	2,000.00	\$2,000.00		
	SITE RESTORATION (grade & see	ed as req'd)	2000 SY	1.50	\$3,000.00		
	LANDSCAPING		0 ITEMS	266	\$0.00		
	SITE LIGHTING		0 FIXT.	3,370.00	\$0.00	AT	15 10 11
			SUBSECTIO	ONTOTAL		\$5,000.00	15.13 #1
IVISION	03 - CONCRETE						
	TRENCHED FOOTING		35 LF	50.00	\$1,750.00		
010 110	STRIP FOOTING		0 LF	35.55	\$0.00		
	SPECIAL		0	0.00	\$0.00		
			SUBSECTIO		00.00	\$1,750.00	5.30 #1
IVISION	04 - MASONEV Costs from Ma	aconny last Of	SUBSECTIO		çoloo	\$1,750.00	5.30 #1
IVISION	04 - MASONRY Costs from Ma FOUNDATION (12" BLOCK)	asonry Inst. Of	SUBSECTIO		\$0.00	\$1,750.00	5.30 #1
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		ION TOTAL	\$0.00	\$0.00	0.00 #N/
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	3003201	ION TOTAL	\$0.00	\$0.00	0.00 #14
IVISION 11 - EQUIPMENT					
	0	0.00	\$0.00		
	SUBSECT	ION TOTAL	\$0.00	\$0.00	0.00 #N
					Í.
IVISION 14 - CONVEYING SYSTEMS	0	0.00	\$0.00		
	Ū.	0.00			100
	SUBSECT	ION TOTAL	\$0.00	\$0.00	0.00 #N
DIVISION 15 - MECHANICAL SYSTEMS	0	0.00			
	0 SUBSECT	0.00 ION TOTAL	\$0.00	\$0.00	0.00 #N/
	0000201		φ0.00	φ0.00	0.00 #11
DIVISION 16 - ELECTRICAL SYSTEMS - see below for e	electrical				
	0	0.00	\$0.00		
	SUBSECT	ION TOTAL		\$0.00	0.00 #N
				GC + Site	19% #N
				Structure	81% #N
				Mech-Elect	0% #N/
			\$26,430.00	\$26,430.00 (	ck.
RECOMMENDED CONTINGENCY	5%	CONTRACTORS FEE \$26,430.00	0.00 1,321.50		
	20%	\$26,430.00	5,286.00		
ECOMMENDED SM SCALE PROJECT FACTOR			olecoloo		
ECOMMENDED SM SCALE PROJECT FACTOR			\$33,037.50		
ECOMMENDED SM SCALE PROJECT FACTOR			\$33,037.50		
RECOMMENDED SM SCALE PROJECT FACTOR		E WALL CONSTR. + SITE COSTS	\$33,037.50	\$33,037.50	
RECOMMENDED SM SCALE PROJECT FACTOR		E WALL CONSTR. + SITE COSTS		San Anna San	
RECOMMENDED SM SCALE PROJECT FACTOR	PROBABL	E WALL CONSTR. + SITE COSTS	SITEWORK	\$33,037.50 \$5,000.00 \$28,037.50	
	PROBABL		SITEWORK	\$5,000.00	
	PROBABL		SITEWORK	\$5,000.00	
RECOMMENDED SM SCALE PROJECT FACTOR	PROBABL		SITEWORK	\$5,000.00	
EES / MISCELANEOUS	PROBABL PROBABL	E WALL CONSTRUCTION ONLY C	SITEWORK COSTS	\$5,000.00	
EES / MISCELANEOUS ARCHITECURAL FEES	PROBABL PROBABL 0%	E WALL CONSTRUCTION ONLY C	SITEWORK COSTS T.B.D.	\$5,000.00	
EES / MISCELANEOUS ARCHITECURAL FEES SITE ENGINEERING FEES	PROBABL PROBABL 0% 0% 0	E WALL CONSTRUCTION ONLY C HOURLY	SITEWORK COSTS T.B.D. \$0.00	\$5,000.00 \$28,037.50	
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THER COST ITEMS CUSTOM SIGNAGE (Sign A Rama) CUSTOM SIGNAGE (The Sign Works) SOLAR POWER PACKAGE (Green Panel)	PROBABL PROBABL 0% 0% 0 CLUDING FEES 1 LS 1 LS	E WALL CONSTRUCTION ONLY C HOURLY 0.00 \$13,210.00 \$6,800.00 \$4,480.60 \$21,100.00 0	SITEWORK COSTS T.B.D. \$0.00 \$0.00 \$0.00 \$13,210.00 \$6,800.00 \$4,480.60 \$21,100.00 0	\$5,000.00 \$28,037.50	
THER COST ITEMS	PROBABL PROBABL 0% 0% 0 CLUDING FEES 1 LS 1 LS 1 LS 1 LS 1 LS	E WALL CONSTRUCTION ONLY C HOURLY 0.00 \$13,210.00 \$6,800.00 \$4,480.60 \$21,100.00	SITEWORK COSTS T.B.D. \$0.00 \$0.00 \$0.00 \$6,800.00 \$4,480.60 \$21,100.00	\$5,000.00 \$28,037.50	

\$44,318.10 LOW

## Adam VanTassell

From:	Ann OReilly <annoreilly11@yahoo.com></annoreilly11@yahoo.com>
Sent:	Saturday, April 14, 2012 11:35 PM
То:	info
Subject:	Noise Ordinance

Township Executives:

I would like to put on record a complaint that the noise level from the Chaldean Camp on Kellogg Rd. was amplified "in such a manner or with such volume as to unreasonably upset or disturb the quiet, comfort or repose of other persons."

It is after 11:00pm in a residential area. I am in my home with the windows closed and I can clearly hear the music, drums, and amplified music so loudly that I cannot sleep.

This is clearly a violation of the ordinance. Please contact the owners of the property and inform them that the township will enforce the published noise ordinance to protect the property rights of the residents of the township.

Thank you, Ann O'Reilly 517.282.5924

Genoa Township Noise Ordinance:

"No person, firm or corporation or other legal entity shall cause or create any unreasonable or unnecessarily loud noise or disturbance, injurious to health, peace, or quiet of the residents and property owners of the township. Specific violations the following noises and disturbances are hereby declared to be a violation of this ordinance; provided however, that the specification of the same is not thereby to be construed to exclude other violations of this ordinance not specifically enumerated:

1. The playing of any radio, phonograph, television, or other electronic or mechanical sound-producing device, including any musical instrument in such a manner or with such volume as to unreasonably upset or disturb the quiet, comfort or repose of other persons."

Ann O'Reilly

"An Injustice anywhere is a threat to justice everywhere" Dr. Martin Luther King, Jr.

OSmS TOZM mo>oom≩ FROM ð 0 E-MAIL ADDRESS CALL WANTS TO SEE YOU 50 Shohen A P uncan Wer Ĵ 6 'n. Ø PHONE ( FAX 166 20 k b 2020 SIGNED allard lesarce TIME 12 Q CD.X URGENT PM M

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Board Correspondence

Thank you for previous the lard Marte Electronic Maste # Hagardons Mante LIMMAS/ CHAY MELANDA. 14-15 FLEATLY Appendices of

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MICHIGAN MUNICIPAL RISK MANAGEMENT A U T H O R I T Y

April 30, 2012

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Ms. Paulette Skolarus Genoa Township 2911 Dorr Rd. Brighton, MI 48116

Re:	Porter vs Genoa Township					
	Occurrence No.:	2012-38305-002 GBIR				
	Our Claim No.:	157504				
	Date of Loss:	12/21/11				

Dear Ms. Skolarus:

This letter acknowledges receipt of the Summons and Complaint and First Amended Complaint regarding the above lawsuit.

This file has been forwarded to defense counsel Johnson, Rosati, LaBarge, Aseltyne & Field, with instructions to enter an appearance on behalf of **Genoa Township** and to defend your interests in accordance with the Authority's contractual document.

Sincerely,

Charles J. Stevens

Charles E. Stevens, CPCU, AIC Claims Manager

CES/dmc cc: Carol A. Rosati, Esq.



MICHIGAN MUNICIPAL RISK MANAGEMENT A U T H O R I T Y

April 30, 2012

Carol A. Rosati, Esq. Johnson, Rosati, Schultz & Joppich, P.C. 34405 W. Twelve Mile Rd., Suite 200 Farmington Hills, MI 48331-5627

Re:	Porter vs Genoa Township					
	Occurrence No.:	2012-38305-002 GBIR				
	Our Claim No.:	157504				
	Date of Loss:	12/21/11				
	Matter No.:	J157504				

Dear Ms. Rosati:

This is a new assignment on behalf of the MMRMA. Enclosed find the Summons and Complaint and First Amended Complaint that was served upon Genoa Township on April 20, 2012 by certified mail. We are asking that you defend Genoa Township. Please assign this case to Carol A. Rosati.

I am asking that you act as referral counsel for the Michigan Municipal Risk Management Authority on the above entitled case for the Defendant. We are authorizing payment for legal services at a rate not to exceed \$135.00 per hour and \$70.00 per hour for paralegals. This rate covers all travel expenses and ordinary office expenses. Please submit billings on a monthly basis for payment. These billings are routed through this office for approval prior to payment.

If the retainer conditions are acceptable to you, please return the enclosed copy of this letter noting your acceptance at the bottom.

Our function with the Authority is to generally oversee litigation which the authority is involved in, to report on a timely basis to our reinsurers on those files that require reporting and quarterly reporting to our Membership on all matters of litigation pending before the Authority. We ask that you send status reports to Louise Duchesneau, claims adjuster at this address. The member contact is Paulette Skolarus who can be reached at 2911 Dorr Rd., Brighton, MI 48116, (810) 227-3420.

Within the next thirty (30) days please provide us with the following:

- 1. First Captioned Report
- 2. Answer and Appearance

We remind you of the established protocol for handling MMRMA matters and expect that the guidelines will be followed. Please do not hesitate to contact the assigned adjuster on this file at any time. We look

Carol A. Rosati, Esq. Porter vs Genoa Township April 30, 2012 Page 2

forward to working with you.

Sincerely,

Charles E. Stevens, CPCU, AIC Claims Manager Michigan Municipal Risk Management Authority

CES/dmc Enclosures

cc: Paulette Skolarus, Genoa Township

Accepted by: