

CITY OF OWOSSO PLANNING COMMISSION Regular Meeting

Tuesday, May 28, 2019 at 6:30 p.m. Council Chambers – Owosso City Hall 301 W. Main Street, Owosso, MI 48867

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

APPROVAL OF AGENDA - May 28, 2019

APPROVAL OF MINUTES - April 22, 2019

PUBLIC HEARING: None

OLD BUSINESS: None

NEW BUSINESS:

1. Site Plan – Memorial Healthcare

2. Site Plan – Consumers Energy

OTHER BOARD BUSINESS

PUBLIC COMMENTS AND COMMUNICATIONS

ADJOURNMENT

Next regular meeting will be on Monday, June 24, 2019, if any requests are received.

<u>Commissioners, please call Tanya at 989-725-0540 if you will be unable to attend this</u> meeting

The City of Owosso will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and recordings of printed materials being considered at the meeting, to individuals with disabilities at the meeting/hearing upon seventy-two (72) hours notice to the City of Owosso. Individuals with disabilities requiring auxiliary aids or services should contact the City of Owosso by writing or calling the following: Amy Kirkland, City Clerk, 301 W. Main St, Owosso, MI 48867 (989) 725-0500. The City of Owosso website is: www.ci.owosso.mi.us

MINUTES REGULAR MEETING OF THE OWOSSO PLANNING COMMISSION

COUNCIL CHAMBERS, CITY HALL MONDAY, APRIL 22, 2019 – 6:30 P.M.

<u>CALL TO ORDER:</u> Vice-Chair Livingston called the meeting to order at 6:30 p.m.

PLEDGE OF ALLEGIANCE: Recited

ROLL CALL: Tanya Buckelew

MEMBERS PRESENT: Vice-Chair Livingston, Secretary Janae Fear, Commissioners Kirkland,

Law and Taylor

MEMBERS ABSENT: Chairman Wascher, Commissioners Adams and Jenkins

OTHERS PRESENT: City Manager Nathan Henne, Building Official Brad Hissong

APPROVAL OF AGENDA:

MOTION BY SECRETARY FEAR, SUPPORTED BY COMMISSIONER KIRKLAND TO APPROVE THE AGENDA FOR APRIL 22, 2019.

YEAS ALL. MOTION CARRIED.

APPROVAL OF MINUTES:

MOTION BY SECRETARY FEAR, SUPPORTED BY COMMISSIONER LAW TO APPROVE THE MINUTES FOR THE FEBRUARY 25, 2019 MEETING.

YEAS ALL. MOTION CARRIED.

PUBLIC HEARINGS: NONE

OLD BUSINESS: NONE

NEW BUSINESS:

1. Site Plan Review - J & H Family Store, 917 E. Main Street

The architect for this project, Joe Grochowalski, spoke about the site plan. The current station and house will be demolished to allow for a new convenience store and gas station.

Craig Hoppen, Owner, spoke about getting a Brownfield for the site and working with the DEQ. In addition, the storage area on the north side of the building will be used for products like oil that customers can walk in and purchase. There will be a small checkout counter in the storage area.

Discussion regarding signage – the pole sign on the northeast corner will stay the same with a new coat of paint and a new monument sign will be added to the southeast corner.

A sidewalk will be added on Gould Street.

Discussion regarding the overhead door and per ordinance, the Planning Commission can approve the overhead door facing a street. This does not require a variance.

J & H Family Store will seek a variance in regards to the windows and the landscaping (Sec. 38-397 (a) (3) and (4).

MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY COMMISSIONER LAW TO APPROVE THE SITE PLAN FOR THE J & H FAMILY STORE LOCATED AT 917 E. MAIN STREET AS DEPICTED ON THE PLAN PREPARED BY FEENSTRA & ASSOCIATES INC. CIVIL ENGINEERS & SURVEYORS, SUBJECT TO THE FOLLOWING:

- 1. ZONING BOARD OF APPEALS VARIANCE APPROVALS
- 2. BUILDING OFFICIAL, ENGINEER, PUBLIC UTILITIES DIRECTOR AND FIRE DEPARTMENT'S APPROVAL OF THE CONSTRUCTION DRAWINGS
- 3. PLANNING COMMISSION APPROVES THE PLACEMENT OF THE OVERHEAD DOOR AS PER SEC. 38-397 (A)(5) OVERHEAD DOORS SHALL NOT FACE A PUBLIC STREET OR RESIDENTIAL DISTRICT. THE PLANNING COMMISSION CAN MODIFY THIS REQUIREMENT UPON A DETERMINATION THAT THERE IS GOOD OR NECESSARY CAUSE AND THE VISUAL IMPACT WILL BE MODERATED THROUGH USE OF BUILDING MATERIALS, ARCHITECTURAL FEATURES AND LANDSCAPING BEYOND THAT REQUIRED BY THE ORDINANCE.

RCV YEAS ALL. MOTION CARRIED.

OTHER BOARD BUSINESS:

Matt Lafferty resigned from the planning commission to pursue a new career up north.

PUBLIC COMMENTS AND COMMUNICATIONS: NONE

ADJOURNMENT

MOTION BY COMMISSIONER TAYLOR, SUPPORTED BY SECRETARY FEAR TO ADJOURN AT 7:15 P.M. UNTIL THE NEXT MEETING ON MAY 28, 2019.

YEAS ALL, MOTION CARRIED.

Janae L. Fear, Secretary



Planned Unit Development Application Please Print

Submission of Application Applications must be submitted 30 days prior to the meeting for review for completeness, along with the fees of: PUD zoning district review Cost + 25% and PUD site plan review \$500.00 + review fees in accordance with the schedule of fees adopted by the City Council to cover the costs of processing the application. All land for which application is made must be owned by or under the control of the applicant, and the parcel must be capable of being planned and developed as one integral unit including any non-contiguous parcels. The application must be signed by all applicants and must contain the materials described in this Section. Failure of the applicant to provide such requested information in a timely manner may delay the process of review. **Property Information** Address: 824 WKIN Parcel # 050-536-000-095-00 Applicant Information Name of Owner or Lessee: Memorial Healthcare (Attn: Brian Long, President, CEO) 826 W. King St., Owosso, MI 48867 Email: Phone #: Cell#: pciarizio@memorialhealthcare.org N/A989-729-4802 Name of Agent (if applicable): Address: Email: Cell#: Phone #: Name of Architect, Engineer, Landscape Architect or Land Planner: Edmund London & Associates (Attn: Jordan London, President) 20750 Civic Center Drive, Suite 610, Southfield, Michigan 48076 Email: Cell #: Phone #: ilondon@ela-architect.com N/A 248-353-4820

Submission Guldelines Items that are bold and italicized cannot be waived

Detailed site plan shall include 10 copies of all required information including any documents rendered in color and a digital PDF of the Site Plan shall be forwarded to the City Planner.

Waived Initials	included	Planned Unit Development and Detailed Site Plan Requirements
		A detailed narrative description of the applicant's intent and objectives (physical, social and environmental)
		The site plan shall be prepared by a professional architect, engineer, landscape architect or land planner and must contain the following information:
	•	A scale of not less than one (1) inch equals fifty (50) feet if the subject property is less than three (3) acres and one (1) inch equals one hundred (100) feet if three (3) acres or more
		Date, north point, scale, and area of the site in acres
	<u>.</u>	The dimensions of all lot and property lines, showing the relationship of the subject property to the abutting properties
	•	The location of all existing and proposed structures and utilities on the subject property and all existing structures within one hundred (100) feet to the subject property
		The location and layout of all existing and proposed drives and parking areas
		The location and right-of-way widths of all abutting streets and alleys
	•	The names and addresses of the architect, planner, designer, engineer, or person responsible for the preparation of the site plan
		All water features; springs streams and creeks, lakes and ponds, wetlands, and flood plains
		Locations, heights and sizes of existing and proposed structures and other important features. Illustration of all proposed improvements and buildings, fences, landscaping, parking and screening, including location, height, footprint of each.
		A rendering of the exterior elevation of the proposed buildings and structures, on- site parking, sidewalks, and travel lanes
		Proposed setback from property lines and building separations distances
		The percentage of land covered by buildings, parking and landscape open space, or preserved open space. Percentage of land covered by buildings and impervious surfaces and that reserved for open space.
	N/A 🗆	A land use tabulation summary shall be provided indicating types of uses, acreage for each land use, number of units, densities and land use intensities. Dwelling unit density where pertinent; including a density schedule demonstrating number of each dwelling type, if applicable.
	N/A □	Project phasing, if applicable.
		Location of public and private rights-of-way and easements contiguous to and within the proposed development which are planned to be continued, created, relocated or abandoned, including grades and types of construction of those upon the site. Location of public and private rights-of-way and easements contiguous to and within the proposed development which are planned to be continued, created, relocated or abandoned, including grades and types of construction of those upon the site.

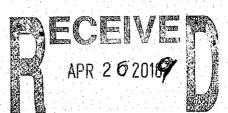
	The and leading gross. Curb cuts driving lanes
	Curb-cuts, driving lanes, parking, and loading areas. Curb-cuts, driving lanes, parking and loading areas, including the number of parking spaces and parking calculations; vehicular circulation patterns and features, location and size of all parking spaces and the identification of service lanes and parking.
	Curb-cuts and driveways on adjacent properties.
	Location and type of drainage, sanitary sewers, storm sewers and other facilities, including surface and subsurface drainage for all impermeable surfaces on the site and all drainage calculations.
	Existing and proposed water main, sanitary and storm sewer, natural gas, electric, telephone, cable television and other utilities, the proposed location of connections to existing utilities and any proposed extensions thereof.
	Proposed changes to the topography of the site illustrated at no greater than two (2) foot contours.
	Soil erosion and sediment control measures which shall include preventative soil erosion devices or measures, both during and after any site work related to the development.
	Signage characteristics and on-site illumination. Detail on proposed signage including an illustration of all proposed signs, their surface area, height and nature of illumination
	A lighting plan
ok □	Any additional material information necessary to consider the impact of the project upon adjacent properties and the general public, as may be requested by the Planning Commission.
OK 🗆	Any required approvals, permits, changes or modifications required by any applicable regulatory agency.
N/A 🗆	Special Groundwater Protection. [If applicable – requirements will be provided]

Site Plan Review Process

After review and recommendation by City Staff, the applicant will submit 10 copies of the application and Site Plan for the Planning Commission meeting.

	Authorization
involved in the application	at he/she/they is/are the owner, lessee, owner's representative, contractor and that the information included in this application is correct. Further, if applicant will comply with all of the requirements of the City of Owosso lies that measures preposed to initigate adverse impacts will be completed
Signature:	Date: 4/15/15
Signature:	Date:
if applicant is Incorporated	a Limited Liability Corporation a copy of the Articles of Incorporation are to be
	a Limited Liability Corporation a copy of the Articles of Incorporation are to be
submitted with application.	a Limited Liability Corporation a copy of the Articles of Incorporation are to be ermission is given for Planning Commission Members to make a site inspection if
submitted with application. ✓ By checking this box desired. ✓ Yes ✓ No Ple	
submitted with application. By checking this box desired. Yes ✓ No Ple	ermission is given for Planning Commission Members to make a site inspection if indicate if the applicant will be tax exempt, applying and/or eligible for tax
submitted with application. By checking this box desired. Yes ✓ No Ple	ermission is given for Planning Commission Members to make a site inspection if indicate if the applicant will be tax exempt, applying and/or eligible for tax
submitted with application. By checking this box desired. Yes No Plea	ermission is given for Planning Commission Members to make a site inspection if indicate if the applicant will be tax exempt, applying and/or eligible for tax
submitted with application. By checking this box desired. Yes No Plea	ermission is given for Planning Commission Members to make a site inspection if indicate if the applicant will be tax exempt, applying and/or eligible for tax
submitted with application. ✓ By checking this box desired. ✓ Yes ✓ No Ple	ermission is given for Planning Commission Members to make a site inspection if indicate if the applicant will be tax exempt, applying and/or eligible for tax ints for this proposed project. If Yes, explain:
submitted with application. ☑ By checking this box desired. Yes ✓ No Pleabatements, credits or deferi	ermission is given for Planning Commission Members to make a site inspection if e indicate if the applicant will be tax exempt, applying and/or eligible for tax nts for this proposed project. If Yes, explain: Office Use Only







May 20, 2019

Planning Commission City of Owosso 301 W. Main Street Owosso, Michigan 48867

Subject: Memorial Healthcare Neuro/Ortho Wellness Center Site Plan Review. Approximately

24.29 acres, located on the west side of State Highway M-52, immediately north of King

Street. Zoned R-1, Residential and OS-1, Office, site plan not dated.

Attention: Mr. Brad Hissong, Building Official

Dear Planning Commissioners:

At your request, we have completed our review of the above site plan to construct a three (3) story Neuro/Ortho/Wellness Center at the front of the campus site along with expansions to existing parking lots. The Center property is currently undeveloped and located on M-52 on the north side of the main entrance to the hospital campus. The property with the hospital complex is zoned R-1, Residential, where hospitals are special land uses with conditions, and OS-1, Office where medical professional offices and facilities for human care are permitted uses.

The proposed neuro/wellness center is located on property zoned OS-1 and the adjoining parking lot expansion is on property zoned R1.

The opinions in this report are based on a review of the site plan submitted by the applicant and conformance to ordinance standards. Please note that the applicant and their design professionals shall be responsible for the accuracy and validity of information presented with the application. In reaching a decision on the application, the Planning Commission should consider our comments along with those from other staff and consultants, additional information provided by the applicant, and your own findings based on ordinance standards as part of your deliberation.

REVIEW COMMENTS

Section 36-390 of the City of Owosso Zoning Ordinance lists the submittal requirements for site plan review. Based on our review of the proposal, discussions with Mr. Nathan Henne, City Manager, meetings with the applicant and a visit to the site, we offer the following comments for your consideration:

1. Information items. The following information items need to be addressed on a revised site plan submission, for administrative review and approval:

Phone: 810-734-0000

Email: avantini@cibplanning.com

- a. A date must be added to all pages of the site plan
- b. The building height indicated on all sheets must match
- **2. Area and Bulk**. The proposed site was reviewed in accordance with *Article 16, Schedule of Regulations,* as described in the following table.

	Required	Provided	Comments
NEURO WELLNESS CENTER (OS1 ZONING)			
Front Yard Building Setback (Shiawassee)	50 ft.	50 ft.	In compliance
Front Yard Building Setback (Jennett)	10 ft.	35 ft.	In compliance
Rear Yard Building Setback	20 ft.	35 ft.	In compliance
Maximum Building Lot Coverage (Impervious Surface)	-	17.7%	In compliance

- **3. Building Design & Materials.** The building has an attractive design and utilizes stone veneer as the primary building material, with cedar plank trim and spandrel glass trim. We are of the opinion that this meets the intent of the ordinance and enhances the entryway into the hospital complex. Material samples should be presented to the Planning Commission for review and approval.
- **4. Building Height.** The maximum building height in the OS-1 District is 35 feet and the proposed Wellness Center is 39'10" tall. While the building height is appropriate given the scale of the hospital complex, a variance must still be obtained from the Zoning Board of Appeals.
- **5. Mechanical Units.** A note must be added to the plan indicating that any roof--mounted mechanical units will be screened. Specific details including height and construction materials should be provided. The ground mounted generator and electric transformer are shown with Arbor Vitae surrounding the units.
- **6. Dumpster**. A dumpster is located at the northwest corner of the proposed neuro wellness center. <u>Enclosure façade details with material specification should be provided</u>. Due to the close proximity of the generator and electrical transformer pads to the dumpster, the applicant may want to consider enclosing and constructing the units of the same materials as the dumpster enclosure.
- **7. Parking Lot Requirements.** The following table lists the requirements for parking lot setbacks and design.

	Required	Provided	Comments
PARKING LOT EXPANSION (R1 ZONING)			
Parking Setback -Ada Street	50 ft.	25 ft.	Not in compliance
Parking Setback – Residential lots to the north	20 ft.	25 ft.	In compliance

PARKING SPACE REQUIREMENTS	Required	Provided	Comments
Parking Spaces	91 (neuro center) 190 (wellness center) TOTAL 281	115 (new) 166 (existing underutilized) TOTAL 281	In compliance
Parking Aisle Width	26 ft.	26 ft.	In compliance
Parking Space Dimensions	9 ft. x 18′ 4″ ft.	9 ft. x 18 ft.	In compliance
Barrier-Free Parking Spaces*	7 spaces	7 spaces	In compliance

^{*} barrier free spaces are subject to the State of Michigan Department of Labor, Construction Code Commission, Barrier Free Design Division regulations.

- **8.** Parking Lot Expansion. The hospital complex is a special land use in the R-1, Residential District and the ordinance does not have any standards covering the expansion of special land uses. The parking lot expansion will therefore require only site pan approval. Section 38-53(9)(d), Principal uses permitted subject to special conditions general hospitals, of the ordinance also states that "Offstreet parking lots shall be set back eighty (80) feet from a major or secondary thoroughfare, fifty (50) feet from a local street and twenty (20) feet from an adjoining residential lot." The parking expansion along Ada (and facing Jennett Street fails to meet this standard and will either have to be pulled back from the road or a variance applied for. In addition, Section 38-381, Off-street parking space layout, standards, construction and maintenance states: "The off-street parking area shall be provided with a continuous and obscuring wall not less than four (4) feet, six (6) inches in height measured from the surface of the parking area." This wall shall be provided on all sides where the next zoning district is designated as a residential district. The proposed parking lot expansion is within and adjacent to a residential zoning district. A continuous obscuring wall is **not** proposed and fails to meet this standard. The applicant can either construct the obscuring wall or create a landscaped buffer along this north property line for review and waiver by the Planning Commission.
- **9. Landscaping.** A separate landscape plan has been included in the site plan submission. We offer the following landscaping comments:

- a. Parking lot landscaping: The applicant is proposing to provide: 17 parking island and end caps with landscape planting and mulch including: Red Maple, Sugar Maple, Gingko Biloba, Buffalo Juniper, Compact Burning Bush, Dwarf Fothergilla, Day Lilies, and Reed Grasses. Parking lot landscape requirements are not provided in this Ordinance; however, the proposed trees and plantings are ample and a good mix of species that will break-up the expanse of parking, provide small areas of shade. Additionally, the proposed plantings meet the required spacing, planting size, and species indicated for any landscaping, greenbelt, or buffer required.
- b. **Street Frontage and Entrance**: In addition to several existing trees along Jennett Street and Shiawasee Street, the applicant is proposing: 4 Sugar Maple, 4 Norway Spruce, 2 Red Maple, 4 Snowdrift Crabapple, Buffalo Juniper and Grasses. Various shrubs flowering perennials are proposed around the circular entrance to the building.
- c. **Irrigation.** In order for the plantings to remain healthy, <u>irrigation is needed throughout the</u> site.
- **9. Lighting Plan.** A photometric grid has been provided indicating that the intensity levels are acceptable. Pole-mounted, metal halide fixtures are proposed, and we recommend that they be replaced with LED fixtures since they use less energy, create less glare, and are easier to maintain. In addition, details must be provided for any building-mounted fixtures, for administrative review and approval.
- **10. Existing Curb Cuts.** All existing curb cuts not in use must be removed, per the review letter from the Engineering Consultant.
- **11. Other Approvals.** The proposed site plan must be reviewed and approved by the appropriate city departments, consultants, and agencies.

RECOMMENDATION

Based upon the above comments, we recommend approval of the Memorial Healthcare Neuro/Ortho Wellness Center Site Plan, conditioned upon the following:

- 1. Submission of a revised site plan that satisfactorily addresses the items in this letter, for administrative review and approval;
- 2. The applicant obtaining a variance for the height of the building;
- 3. Details for the screening of roof- and ground-mounted mechanical units;
- 4. Details on construction and materials of the dumpster enclosure;
- 5. The applicant obtaining a variance for the parking lot setback to the east (Ada Street)
- 6. Planning Commission approval of a landscaped buffer instead of a wall along the north property line:
- 7. Material samples submitted to and accepted by the Planning Commission;
- 8. Replace the proposed pole-mounted metal halide fixtures with LED fixtures, and
- 9. Review and approval by the appropriate city departments, consultants, and agencies.

If you have any further questions, please contact us at 810-734-0000.

Sincerely,

City of Owosso Planning Commission **Memorial Healthcare Site Plan Review** May 17, 2019 Page 5

CIB Planning

Carmine P. Avantini, AICP

President

CITY OF OWOSSO, MICHIGAN

SITE PLAN REVIEW APPLICATION AND CHECKLIST

Approval of the site plan is hereby requested for the following parcel(s) of land in the City of Owosso. This application is submitted with three (3) copies of the complete site plan and payment of the appropriate review fees. Applicant shall also submit a digital version of the site plan to the community development director. Application must be filed least 25 days prior to a scheduled planning commission meeting for staff review and proper notices.

Accompanying any site plan required hereunder, the applicant shall provide from a licensed engineer soil borings at the proposed construction site to ascertain bearing capacity of foundations soils at the time of footing excavation to certify such soil conditions meet or exceed design capacity of the foundation to support the proposed structure. These requirements shall comply with policies of the City of Owosso, copies of which can be obtained from the Building Department.

The attached checklist has been completed to certify the data contained on the site plan. If the required data has not been provided, the appropriate box has been checked with a statement of explanation on why the data has not been provided. I understand that if my site plan is deemed to be incomplete, it may be returned by the City for revisions without being forwarded to the Planning Commission for consideration, until such time as the requirements have been adequately met. By signing this application, the applicant hereby grants full authority to the City of Owosso, its agents, employees, representatives and/or appointees to enter upon the undersigned lands/parcel(s) for the purposes of inspection and examination.

Application Filed On:

Applic	ation Transmitted by City On:
Proper	ty Details:
_	Wing and Could Degulator Station
	Name of Proposed Development: King and Gould Regulator Station
	Property Street Address: 900 E. King Street
3.	Location of Property: On the (north, south) east, west side) of King
	Street, between <u>Dewey</u> and <u>Gould</u>
	Streets.
4.	Legal Description of Property: See attached.
5.	Site Area (in acres and square feet): 11216.84 SFT; 0.26 acres
6.	Zoning Designation of Property: R-1: One-Family Residential
<u>Owner</u>	<u>ship:</u>
1.	Name of Title/Deed Holder: Consumers Energy; Contact: Joseph Lawson
	Address: One Energy Plaza, Jackson, MI 49201
	Telephone No: <u>(517) 788-8912</u>
4.	Fax No: <u>N/A</u>
	Email address: Joseph.LawsonIII@cmsenergy.com
Applic	ant:
	A District Met Met Andrews And
	Applicant (If different from owner above): See owner above.
2.	Address:
3.	Telephone No:
4.	Fax No:

5.	Email address:
6.	Interest in Property (potential buyer/lease holder/potential lessee/other):
	·
Archit	ect/Surveyor/Engineer preparing site plan:
1	Name of Individual: Rowe Professional Services Company; Douglas Scott P.E.
	Address: 540 S. Saginaw Street, Flint MI 48502
	Telephone No: <u>(810)</u> 341-7500
4.	Fax No: N/A
5.	Email address: DScott@rowepsc.com
PLEAS	SE NOTE:
LLC es	stablishments must have a current plan of operation.
Review	v Fees: Paid: Yes/No
	lan Review Fees: \$150.00 (may be more if it requires review from outside firm)
Total F	rees: \$ _/50 . **
96	Ure of Applicant Date Signature of Deed/Title Holder Date 5.13.19
Signati	ure of Applicant Date Signature of Deed/Title Holder Date 5./3. /9
Please	e provide an overview of the project:
This p	project is a rebuilding of the existing King and Gould Regulator Station on King Street.
	project will include the replacement of all above and below ground piping, demolition of
the ex	cisting building, construction of a new building, and construction of new chain link fence.
3	
0	

SITE PLAN REVIEW CHECKLIST

Check the appropriate line. If item is marked as 'not provided', attach detailed explanation.

Ite	m	Provided	Not Provided
1.	Site location Map.	X	
2.	North arrow, scale (one (1) inch equals fifty (50) feet if the subject		
	property is less than three (3) acres and one (1) inch equals one hundred		
	(100) feet if three (3) acres or more.	X	
3.	Revision dates.	X	-
4.	Signature and Seal of Architect/Surveyor/Engineer.	X	<u> </u>
5.	Area of site (in acres and square feet).	X	
6.	Boundary of the property outlined in solid line.	X	
7.	Names, centerline and right-of-way widths of adjacent streets.	X	
8.	Zoning designation of property.	X	
9.	Zoning designation and use of adjacent properties.	X	
10.	Existing and proposed elevations for building(s) parking lot areas and drives.	X	
11.	Direction of surface water drainage and grading plan and any plans for		
	storm water retention/detention on site.	_X	
12.	Required setbacks from property lines and adjacent parcels.	X	
	Location and height of existing structures on site and within 100 feet of		
	the property.	_X	
14.	Location and width of existing easements, alleys and drives.	X	
15.	Location and width of all public sidewalks along the fronting street		
	right-of-way and on the site, with details.	X	
16.	Layout of existing/proposed parking lot, with space and aisle dimensions.		N/A: No Parking Lot
	Parking calculations per ordinance.	X	
18.	Location of all utilities, including but not limited to gas, water, sanitary		
	sewer, electricity, telephone.	X	
19.	Soil erosion and sedimentation control measures during construction.	X	
20.	Location and height of all exiting/proposed fences, screens, walls or		
	other barriers.	X	
21.	Location and details of dumpster enclosure and trash removal plan.	X	
22.	Landscape plan indicating existing/proposed trees and plantings along		
	frontage and on the site.	_X	
23.	Notation of landscape maintenance agreement.	_X	
	Notation of method of irrigation.	_X	
25.	Lighting plan indicating existing/proposed light poles on site, along site's		
	frontage and any wall mounted lights.	_X	
	a. Cut-sheet detail of all proposed light fixtures.	X	
26.	Architectural elevations of building (all facades). Identifying height,		
	Materials used and colors.	_X	
27.	Existing/proposed floor plans.	X	
28.	Roof mounted equipment and screening.	_X	
29.	Location and type of existing/proposed on-site signage.	_X	
	Notation of prior variances, if any.	X	
	Notation of required local, state and federal permits, if any	X	

32. Additional information or special data (for some sites only)		
a. Environmental Assessment Study.		N/A
b. Traffic Study. Trip Generation.		N/A
c. Hazardous Waste Management Plan.		N/A
33. For residential development: a schedule indicating number of dwelling units, number of bedrooms, gross and usable floor area, parking provided, total area of paved and unpaved surfaces.		N/A
34. LLC establishments must have a current Plan of Operation.		N/A
35. Is property in the floodplain?	No	
36. Will this require MDEQ permitting?	No	
37 Performance Bond – when required		N/A

^{*}Additional data deemed necessary to enable to completion of an adequate review may be required by the Planning Commission, City and/or its consultants.

2019 Meeting Date	Submittal Deadline
January 28	December 28
February 25	January 25
March 25	February 22
April 22	March 22
May 28	April 26
June 24	May 24
July 22	June 21
August 26	July 26
September 23	August 23
October 28	September 27
November 25	October 25
December 9	November 8

PROJECT SCOPE

PREPARE A SITE PLAN AND OBTAIN ASSOCIATED PERMITS FOR CONSTRUCTION OF THE KING & GOULD REGULATOR STATION REBUILD ON CONSUMERS ENERGY PROPERTY IN THE CITY OF OWOSSO, MICHIGAN. THIS WILL INCLUDE THE CONSTRUCTION OF ONE NEW BUILDING, REMOVAL AND REPLACEMENT OF SIDEWALK, AND PARTIAL REPLACEMENT OF FENCING. ALL CONSUMER'S OWNED PIPING ON SITE, ABOVE AND BELOW GRADE, WILL BE REPLACED.

STATE OF

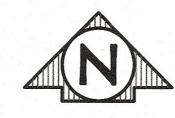
TOWN 07 NORTH

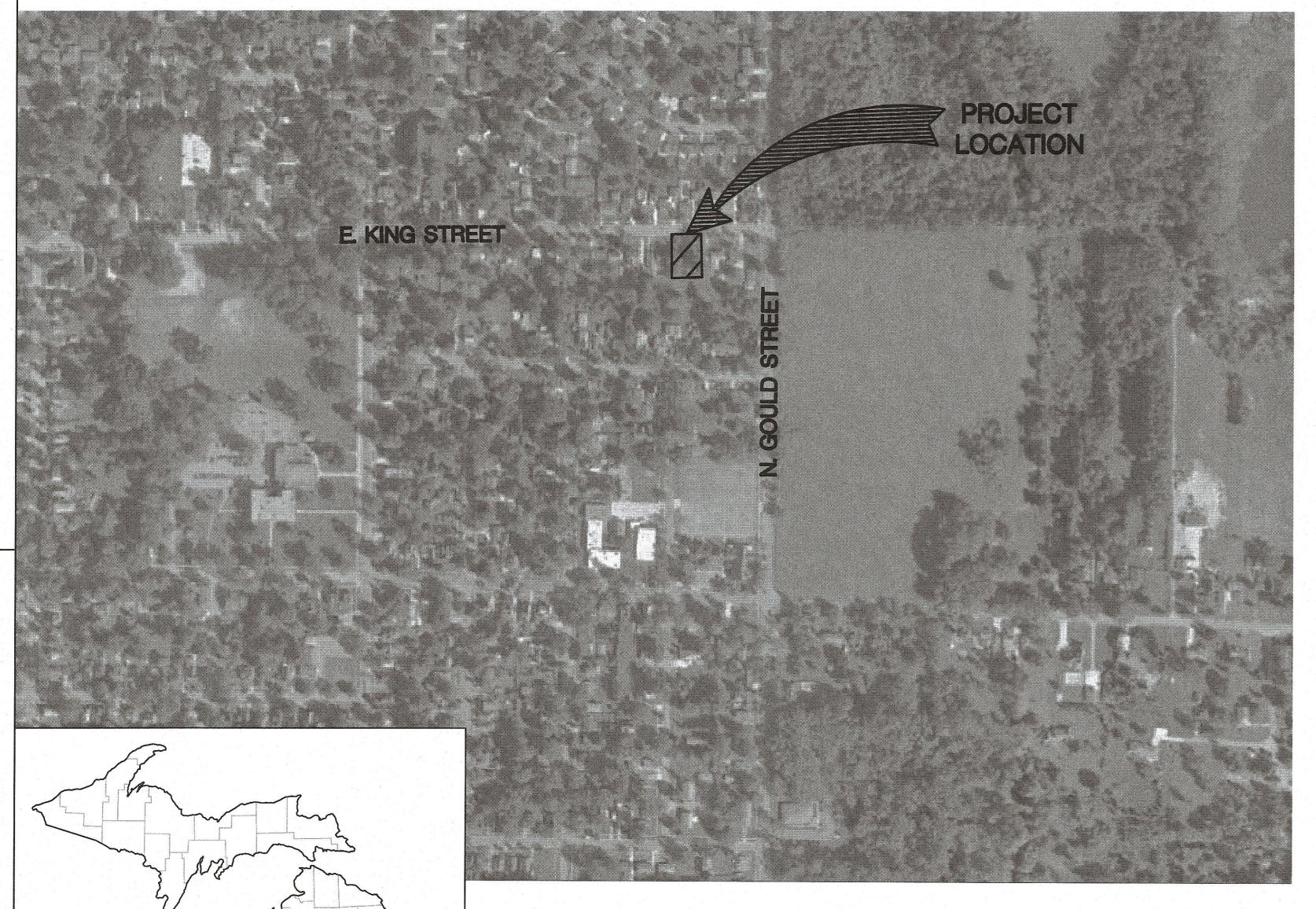
RANGE 03 EAST CITY OF OWOSSO

REFERENCE DRAWING:

SHIAWASSEE COUNTY

REV. SAP ORD. DATE BY CHKD APP. APP.





DESCRIPTION

SITE PLAN FOR

CONSUMERS ENERGY KING & GOULD REGULATOR STATION REBUILD

SECTION 18 T7N-R3E 900 E. KING STREET OWOSSO, MI 48867 SHIAWASSEE COUNTY, MI

LOCAL AGENCY AND UTILITY INFORMATION

AGENCY	UTILITY
CITY OF OWOSSO 301 W. MAIN STREET OWOSSO, MI 48867 (989) 725-0599	SITE PLAN
CITY OF OWOSSO 301 W. MAIN STREET OWOSSO, MI 48867 (989) 725-0550	ROAD
SHIAWASSEE COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH 201 N. SHIAWASSEE STREET CORUNNA, MI 48817 (989) 743-2390	SESC
SHIAWASSEE COUNTY DRAIN COMMISSIONER 149 E. CORUNNA AVENUE CORUNNA, MI 48817 (989) 743-2398 TONY NEWMAN	STORM WATER
CITY OF OWOSSO 301 W. MAIN STREET OWOSSO, MI 48867 GLEN CHINAVARE	UTILITIES (SANITARY, STORM, AND WATER)
CONSUMERS ENERGY COMPANY 530 W. WILLOW STREET LANSING, MI 48906 MR. ADAM BERTRAM	GAS
DAYSTARR COMMUNICATIONS 207 N. BALL STREET OWOSSO, MI 48867 (989) 720-6000	TELEPHONE

SHEET INDEX

- 1 COVER SHEET
 2 GENERAL NOTES SHEET
 3 DETAIL SHEET
 4 EX SURVEY & REMOVAL SHEET
 5 SITE PLAN SHEET
 6 GRADING AND SESC SHEET

LEGAL DESCRIPTION

PARCEL ID# 050-020-000-009-00

WARRANTY DEED - LIBER 258, PAGE 582 OF SHIAWASSEE COUNTY RECORDS

LOT NUMBER TEN (10) OF ADAMS SUBDIVISION OF LOT EIGHTEEN (18), BLOCK ONE (1), CITY ASSESSOR'S PLAT NO. ONE (1), ACCORDING TO THE RECORDED PLAT THEREOF.

TOTAL SITE AREA: 11216.84 SFT; 0.257 ACRES

OWNER INFORMATION

CONSUMERS ENERGY 1945 W. PARNALL RD JACKSON, MI 49201 (517) 374-2272 AMBRIA RUDDY

ENGINEER INFORMATION

ROWE PROFESSIONAL SERVICES COMPANY 540 S. SAGINAW ST, SUITE 200 FLINT, MI 48502 (810) 341-7500 DOUGLAS SCOTT, P.E.





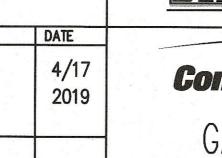
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ROWE PROFESSIONAL SERVICES COMPANY

Consumers Energy GAS ENGINEERING GAS DISTRIBUTION DESIGN SECTION

KING	&	GOULD	REGULATOR	STATION	REBUIL
			COVER SHEE	T	
FIELD AREA:					

20XX DRAWING NUMBER SHEET REV. SAP ORD.



4/11 DOUGLAS 2019 | SCOTT **BRADY** CHECKED KATIE 4/16 LAMBERT 2019 -

DESCRIPTION

DATE BY CHKD APP. APP.

REV. SAP ORD.

JACKSON, MICHIGAN

R:\PROJECTS\19C0024\9 - KING & GOULD\DWG\CONSTRUCTION DRAWINGS\SH-19C0024-COV-KING-&-GOULD.DWG

GENERAL CONSTRUCTION NOTES

EMERGENCY CONTACTS

BEFORE BEGINNING WORK ON THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF EMERGENCY CONTACTS. AT LEAST ONE PERSON REPRESENTING THE CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO EMERGENCIES THROUGHOUT THE LIFE OF THE PROJECT, 24 HOURS A DAY, 7 DAYS A WEEK.

UNDERGROUND UTILITY IDENTIFICATION AND LOCATION

THE CONTRACTOR SHALL CALL MISS DIG (811) A MINIMUM OF THREE WORK DAYS IN ADVANCE OF BEGINNING EXCAVATION. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND NOTIFY UTILITY AGENCIES WITHIN THE PROJECT AREA WHICH DO NOT PARTICIPATE IN THE MISS DIG NOTIFICATION PROGRAM.

PUBLIC UTILITIES

EXISTING UTILITIES ARE SHOWN BASED UPON RECORDS AND LOCATIONS PROVIDED BY UTILITY AGENCIES THE INFORMATION SHOWN IS CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. UNLESS THE PLANS SPECIFICALLY SHOW THAT EXISTING UTILITIES ARE TO BE MOVED, THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN EXISTING UTILITIES.

VERIFICATION OF UNDERGROUND UTILITIES

THE CONTRACTOR SHALL EXCAVATE AND LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA IN ADVANCE OF CONSTRUCTION TO VERIFY THEIR ACTUAL LOCATION. POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL MAKE SUCH CHANGES TO GRADE AND ALIGNMENT OF PROPOSED WORK AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS. AT NO INCREASE IN COST TO THE OWNER.

UTILITY SERVICE

UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE DURING THE PROJECT.

SOIL BORINGS / PAVEMENT CORES

IF PROVIDED ON THE PLANS OR IN THE CONTRACT DOCUMENTS, LOGS OF SOIL BORINGS OR PAVEMENT CORES REPRESENT THE SUBSURFACE CONDITIONS ENCOUNTERED AT SPECIFIC POINTS. THE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.

MAINTAINING TRAFFIC

LOCAL AND EMERGENCY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA.

WHEN EXCAVATION, FRESH CONCRETE, OR OTHER CONSTRUCTION WORK WILL RESULT IN THE CLOSURE OF A STREET OR DRIVEWAY FOR A PERIOD OF TIME, THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES IN ADVANCE.

THE CONTRACTOR SHALL NOTIFY EMERGENCY RESPONSE AGENCIES IN ADVANCE OF ROAD CLOSURES OR THE ESTABLISHMENT OF DETOURS.

TRAFFIC SIGNS

TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE AGENCY HAVING JURISDICTION OVER THE STREETS OR ROADS IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE AGENCY TO ARRANGE FOR REMOVAL OF THE SIGN AND IS RESPONSIBLE TO PAY ANY FEES ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE SIGNS.

THE CONTRACTOR SHALL COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP WORK ON THE PROJECT ONCE BEGUN.

ALIGNMENT AND GRADES FOR CURB AND GUTTER (INCLUDING THROUGH RAMPS AND DRIVEWAY OPENINGS) SHOWN ON THE PLANS ARE FOR THE TOP, BACK OF CURB, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE PLANS.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES LOCATED IN THE CURB LINE IS TO THE CENTER OF THE CASTING.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES WHICH ARE NOT IN THE CURB LINE AND FOR MANHOLES IS TO THE CENTER OF THE STRUCTURE.

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR MANHOLE CASTINGS. THE ELEVATION PROVIDED IS FOR THE TOP OF THE CASTING.

WHERE RIM ELEVATIONS ARE PROVIDED FOR INLET TYPE CASTINGS, THE ELEVATIONS ARE PROVIDED AS

FOLLOWS: CURB INLETS - THE ELEVATION OF THE TOP OF CURB • ALL OTHER INLETS — THE ELEVATION OF THE FLOW LINE

RE-STAKING WILL BE AT THE CONTRACTOR'S EXPENSE.

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR INLETS OR MANHOLE CASTINGS. THE ELEVATIONS PROVIDED ARE CONSIDERED PRELIMINARY. THE CONTRACTOR SHALL MAKE THE FINAL ADJUSTMENT FOLLOWING THE ESTABLISHMENT OF ACTUAL GRADING AND PAVEMENT ELEVATIONS.

CONSTRUCTION STAKING

REFERENCE DRAWING:

WHEN CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, THE CONTRACTOR SHALL REQUEST STAKING AT LEAST THREE WORKING DAYS IN ADVANCE.

WHEN CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, STAKING WILL BE PROVIDED ONE TIME. THE CONTRACTOR SHALL PROTECT AND PRESERVE SURVEY CONTROL AND STAKING.

SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS

THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS. BENCHMARKS. OR SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES: A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE-SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

PROTECTION OF TREES, SHRUBS, AND LANDSCAPING

ALL TREES. SHRUBS. AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES, SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SIGNING AND BARRICADING

REV. SAP ORD. DATE BY CHKD APP. APP.

THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES. BARRICADES LEFT IN PLACE AFTER SUNSET SHALL BE LIGHTED.

THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND OR AIR FLOW FROM VEHICLES.

THE CONTRACTOR SHALL PROVIDE SIGNING. BARRICADES. FLAGGERS. CONES. AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT AREA, THE CURRENT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL COVER OR REMOVE TEMPORARY SIGNS DURING PERIODS WHEN THEY ARE NOT

TURF ESTABLISHMENT

ALL DISTURBED AREAS WHICH ARE NOT TO BE SURFACED WITH PAVEMENT, AGGREGATE OR OTHER APPROVED SURFACES SHALL BE ESTABLISHED WITH TURF.

TURF AREAS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.

DISTURBED AREAS SHALL BE SURFACED WITH THREE INCHES OF SCREENED TOPSOIL.

THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH TURF WHICH IS SUBSTANTIALLY FREE OF BARE SPOTS AND FREE OF WEEDS. THE GROUND SURFACE IN TURF AREAS SHALL BE SMOOTH AND PROVIDE A NATURAL TRANSITION TO ADJACENT. UNDISTURBED AREAS.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE WATERING, WEEDING, RESEEDING, AND REWORKING AS NECESSARY TO ESTABLISH TURF AREAS TO THE REQUIRED STANDARD.

ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE GUIDELINES OR STANDARDS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN FINISHED CONDITIONS THAT DO NOT MEET THE ADA REQUIREMENTS, GUIDELINES, OR STANDARDS; THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND REPLACE WORK DETERMINED TO BE NOT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS, GUIDELINES, OR STANDARDS.

EARTHWORK QUANTITIES, IF PROVIDED, ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION. THE QUANTITIES WERE DEVELOPED USING THE AVERAGE END AREA METHOD. ASSUMPTIONS REGARDING TOPSOIL AND SHRINKAGE ARE STATED WITH THE ESTIMATES OF EXCAVATION AND FILL.

THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE EARTHWORK QUANTITIES. AND BASE HIS BID ON HIS DETERMINATION OF THE QUANTITIES OF WORK REQUIRED.

IF ADDITIONAL FILL MATERIAL MUST BE PROVIDED TO ATTAIN THE FINISH GRADES SHOWN ON THE PLANS, THE CONTRACTOR SHALL PROVIDE THE REQUIRED FILL MATERIAL, UNLESS A SPECIFIC BORROW AREA IS IDENTIFIED ON THE PLANS.

EXCESS SOILS RESULTING FROM EXCAVATION AND EARTHWORK SHALL BECOME THE CONTRACTOR'S PROPERTY AND DISPOSED OF PROPERLY, UNLESS AN AREA(S) HAS BEEN DESIGNATED FOR STOCKPILING OR 'BLENDING IN" THE EXCESS MATERIAL WITHIN THE PROJECT LIMITS.

BACKFILL AND EMBANKMENT

BACKFILL OF AN EXCAVATION UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE, SHALL BE SAND, MEETING THE REQUIREMENTS OF GRANULAR MATERIAL CLASS III AS DESCRIBED IN THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE SAND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

BACKFILL OF AN EXCAVATION WHICH IS NOT UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE MAY BE SUITABLE EXCAVATED MATERIAL OR OTHER SOIL, WHICH IS FREE OF ORGANIC MATTER, STONES AND ROCKS, ROOTS. BROKEN CONCRETE, FROZEN MATERIAL, OR DEBRIS. THE BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF ITS MAXIMUM UNIT WEIGHT.

THE CONTRACTOR SHALL INDICATE THE SOURCE OF SAND USED FOR BACKFILL TO THE ENGINEER, AND PROVIDE THE ENGINEER WITH THE RESULTS OF A GRADATION TEST PERFORMED ON A SAMPLE OF THE SAND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF USING SAND FROM OTHER SOURCES.

EMBANKMENT USED TO BUILD THE SUBGRADE TO REQUIRED ELEVATION SHALL BE SUITABLE SOIL EXCAVATED FROM THE PROJECT SITE, OR FURNISHED BY THE CONTRACTOR FROM OTHER SOURCES. SUITABLE SOIL IS FREE FROM ORGANIC MATTER, ROCKS AND STONES, FROZEN MATERIAL, BROKEN CONCRETE, AND DEBRIS.

EMBANKMENT CONSTRUCTED OF GRANULAR SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

EMBANKMENT CONSTRUCTED OF COHESIVE SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 6 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

DENSITY TESTING

THE MAXIMUM DRY DENSITY OF SAND AND OTHER GRANULAR SOILS WILL BE DEFINED BY THE MODIFIED PROCTOR ASTM D1557, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL.

THE MAXIMUM DRY DENSITY OF COHESIVE SOILS WILL BE DEFINED BY THE MODIFIED PROCTOR ASTM D1557, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION

WORK HOURS

> DESCRIPTION

UNLESS PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS OR LIMITED BY LOCAL ORDINANCE, THE CONTRACTOR SHALL WORK WITHIN OF THE FOLLOWING TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER: MONDAY THROUGH FRIDAY 7 A.M. TO 8 P.M. 8 A.M. TO 6 P.M. SATURDAY

THE CONTRACTOR SHALL NOT WORK ON SUNDAYS OR HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE

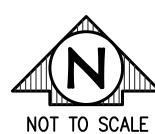
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DRAINAGE

THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE.

WHERE CONSTRUCTION HAS DISTURBED EXISTING DITCHES, SWALES, OR OTHER DRAINAGE FACILITIES; THE CONTRACTOR SHALL RESTORE THEM TO THEIR GRADES AND DIMENSIONS WHICH EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION, UNLESS DIRECTED OTHERWISE.

DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.





PROPERTY LIMITS

KING & GOULD REGULATOR STATION REBUILD - SITE VICINITY MAP

DATE APPROVED

2019 | SCOTT

DATE

2019

JOHN

BRADY

CHECKED

KATIE

LAMBER1

>> DESCRIPTION

DOUGLAS

DATE

2019

ZONING FOR ALL PARCELS IS DESIGNATED R-1: ONE-FAMILY RESIDENTIAL DISTRICT



or MISSDIG @ 1-800-482-7171

mmmmm IF INSTALLATION CANNOT BE COMPLETED AS DESIGNED CONTACT PROJECT ENGINEER BEFORE PROCEEDING www.call811.com

Consumers Energy		
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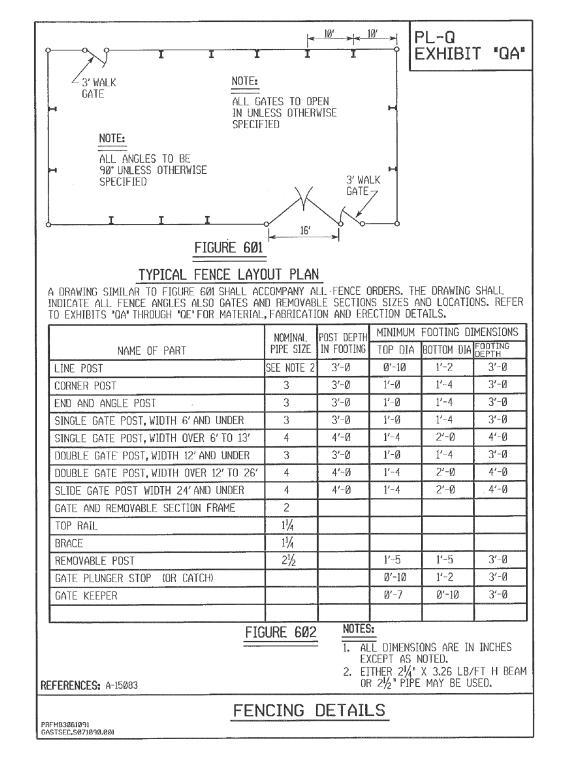
ROWE PROFESSIONAL SERVICES COMPANY

JACKSON, MICHIGAN

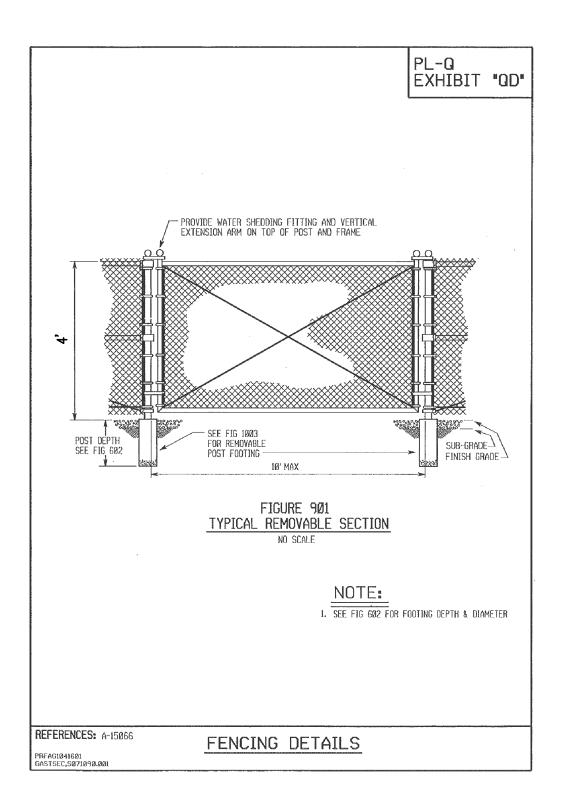
KING & GOULD REGULATOR STATION REBUILD GENERAL NOTES SHEET

FIELD AREA: 20XX Drawing Number SHEET REV. SAP ORD. STA. NO.

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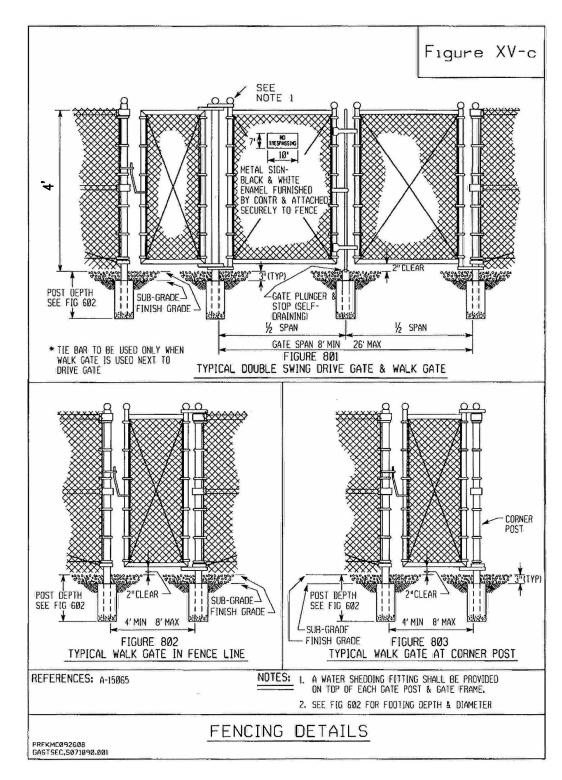






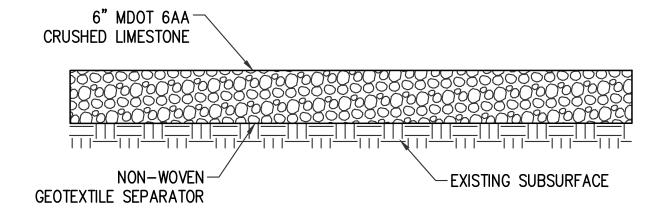
CHAIN LINK FENCE DETAIL

NOT TO SCALE



FENCE AND GATE DETAIL

NOT TO SCALE

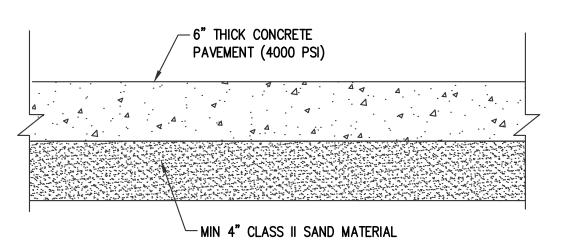


NOTES:

1. NON-WOVEN GEOTEXTILE SEPARATOR SHALL BE MIRAFI 180N, SYNTHETIC INDUSTRIES 801 OR AN ENGINEER APPROVED EQUIVALENT PRODUCT.

2. THIS CROSS SECTION WILL BE USED FOR THE ENTIRE YARD SURFACE, EXCEPT FOR AREAS DESCRIBED AS DRIVEWAYS, AS SHOWN ON THE SITE DRAWINGS.

AGGREGATE SURFACE CROSS SECTION (YARD) NOT TO SCALE



COMPACTED TO 95% MAX DENSITY

NOTES:

1. SEAL ALL EXPANSION JOINTS, BUILDING TO SIDEWALK JOINTS,
SIDEWALK TO BRICK JOINTS, AND CURB TO BRICK JOINTS WITH SELF
LEVELING POLYURETHANE JOINT SEALANT (GRAY) OR EQUAL.

2. 4' MINIMUM SPACING OF CONTROL JOINTS.

CONCRETE PAVEMENT CROSS SECTION

NOT TO SCALE



IF INSTALLATION
CANNOT BE COMPLETED
AS DESIGNED

CONTACT PROJECT ENGINEER
BEFORE PROCEEDING

ROWE PROFESSIONAL SERVICES COMPANY
Consumers Energy

GAS ENGINEERING
GAS DISTRIBUTION DESIGN SECTION
JACKSON, MICHIGAN

KING & GOULD REGULATOR STATION REBUILD DETAIL SHEET

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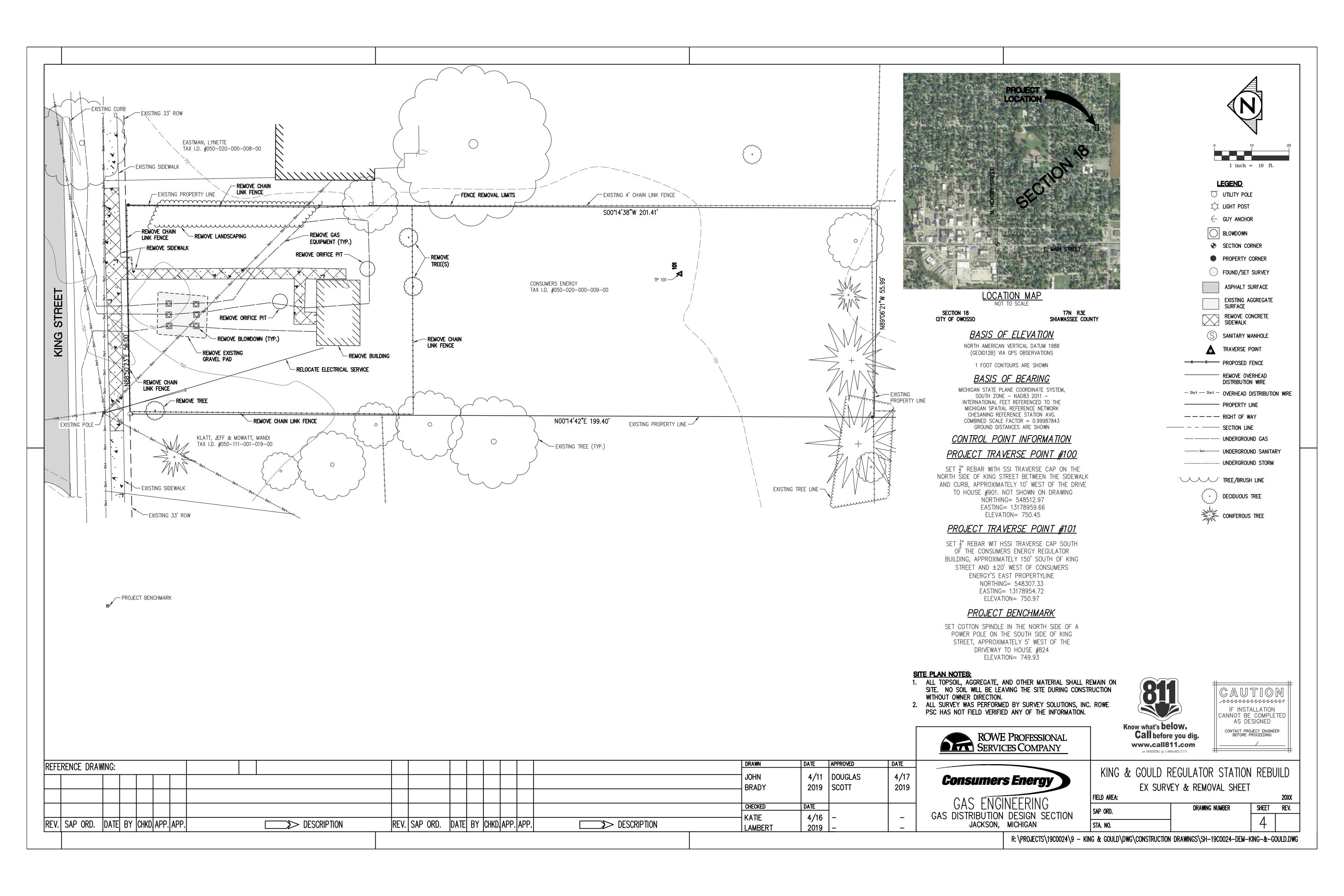
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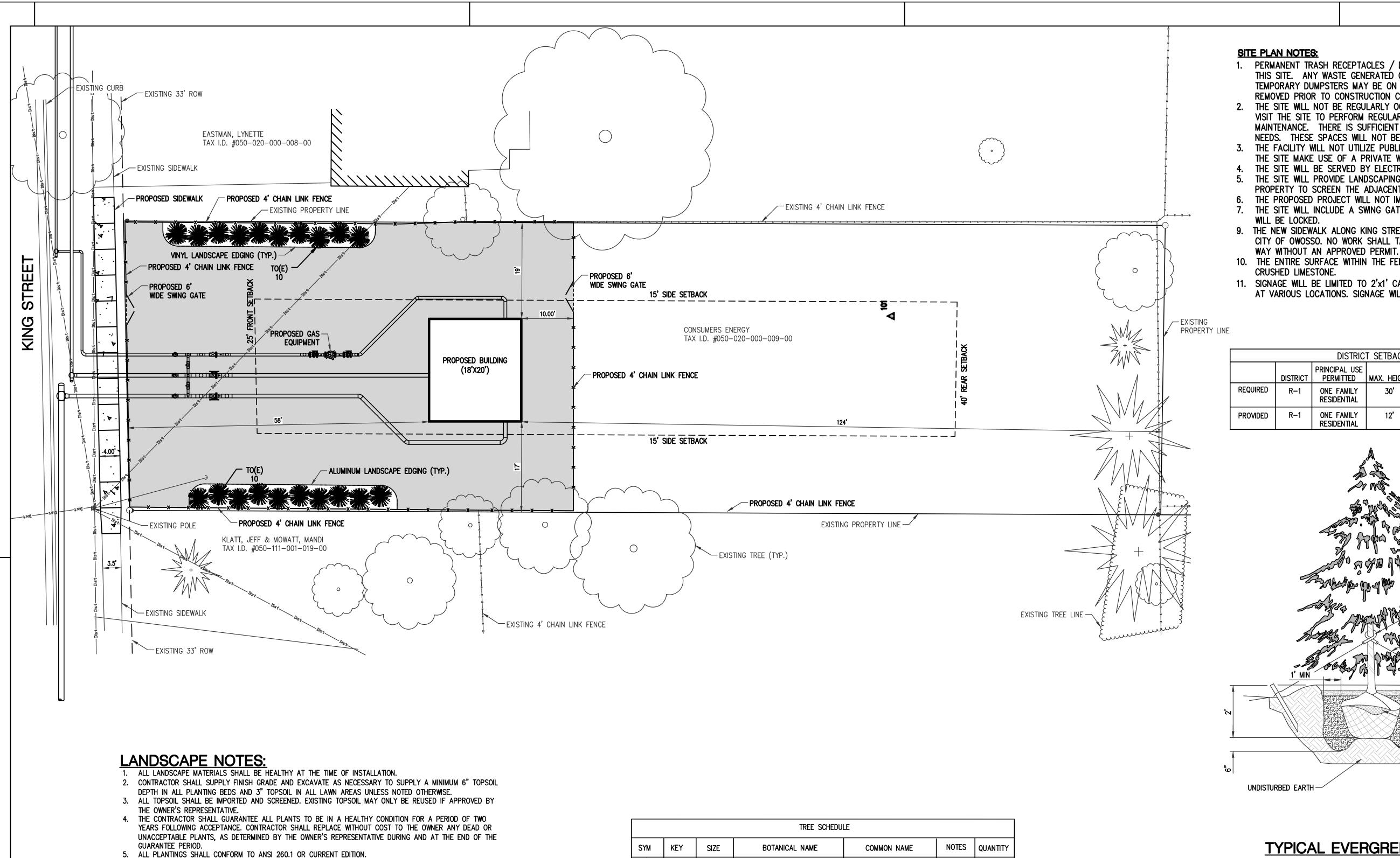
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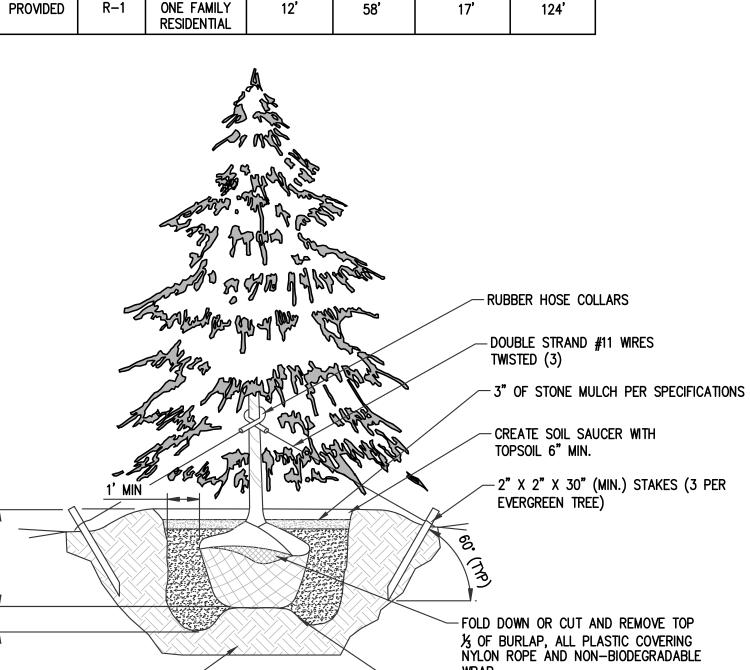




SITE PLAN NOTES:

- PERMANENT TRASH RECEPTACLES / DUMPSTERS ARE NOT PROPOSED FOR THIS SITE. ANY WASTE GENERATED ONSITE WILL BE REMOVED THE SAME DAY. TEMPORARY DUMPSTERS MAY BE ON SITE DURING CONSTRUCTION BUT WILL BE REMOVED PRIOR TO CONSTRUCTION COMPLETION.
- 2. THE SITE WILL NOT BE REGULARLY OCCUPIED. EMPLOYEES WILL ROUTINELY VISIT THE SITE TO PERFORM REGULAR INSPECTIONS AND ROUTINE MAINTENANCE. THERE IS SUFFICIENT SPACE FOR THE ANTICIPATED PARKING NEEDS. THESE SPACES WILL NOT BE DELINEATED IN THE FIELD.
- 3. THE FACILITY WILL NOT UTILIZE PUBLIC WATER OR SANITARY SEWER, NOR WILL THE SITE MAKE USE OF A PRIVATE WELL OR SEPTIC SYSTEM.
- 4. THE SITE WILL BE SERVED BY ELECTRICAL SERVICE. THE SITE WILL PROVIDE LANDSCAPING ON THE EAST AND WEST SIDES OF THE
- PROPERTY TO SCREEN THE ADJACENT HOMES. THE PROPOSED PROJECT WILL NOT IMPACT ANY WETLANDS OR FLOODPLAINS. THE SITE WILL INCLUDE A SWING GATE AT THE SITE ENTRANCE. ALL GATES
- WILL BE LOCKED. 9. THE NEW SIDEWALK ALONG KING STREET WILL REQUIRE A PERMIT FROM THE CITY OF OWOSSO. NO WORK SHALL TAKE PLACE WITHIN THE ROAD RIGHT OF
- 10. THE ENTIRE SURFACE WITHIN THE FENCED AREA WILL BE COVERED WITH CRUSHED LIMESTONE.
- 11. SIGNAGE WILL BE LIMITED TO 2'x1' CAUTION SIGNS MOUNTED ON THE FENCE AT VARIOUS LOCATIONS. SIGNAGE WILL BE SIMILAR TO EXISTING SIGNS.

		DISTRIC	T SETBACK	TABLE		
	DISTRICT	PRINCIPAL USE PERMITTED	MAX. HEIGHT	MINIMUM FRONT YARD	MINIMUM SIDE YARDS	MINIMUM REAR YARD
REQUIRED	R-1	ONE FAMILY RESIDENTIAL	30'	25'	15'	40'
PROVIDED	R-1	ONE FAMILY	12'	58'	17'	124'



TYPICAL EVERGREEN PLANTING DETAIL

NOT TO SCALE



INDIGENOUS SOIL, AMEND

PER SITE CONDITIONS

Call before you dig. www.call811.com or MISSDIG @ 1-800-482-7171

mmmmm IF INSTALLATION CANNOT BE COMPLETED AS DESIGNED CONTACT PROJECT ENGINEER BEFORE PROCEEDING

1 inch = 10 ft.

PROPOSED GRAVEL

SURFACE - YARD

PROPOSED CONCRETE SIDEWALK

<u>LEGEND</u>

ROWE PROFESSIONAL SERVICES COMPANY	_
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KING & GOULD REGULATOR STATION REBUILD SITE PLAN SHEET

| FIELD AREA: **20XX** SHEET REV. Drawing Number SAP ORD. STA. NO.

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AREAS SPECIFIED WITH PLANT MATERIAL SHALL BE FINE GRADED AND SEEDED FOR TURF ESTABLISHMENT.

OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF LEGALLY OFF SITE. 8. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESS WATER FROM STANDING ON

9. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY MATERIAL NOT MEETING SPECIFICATIONS.

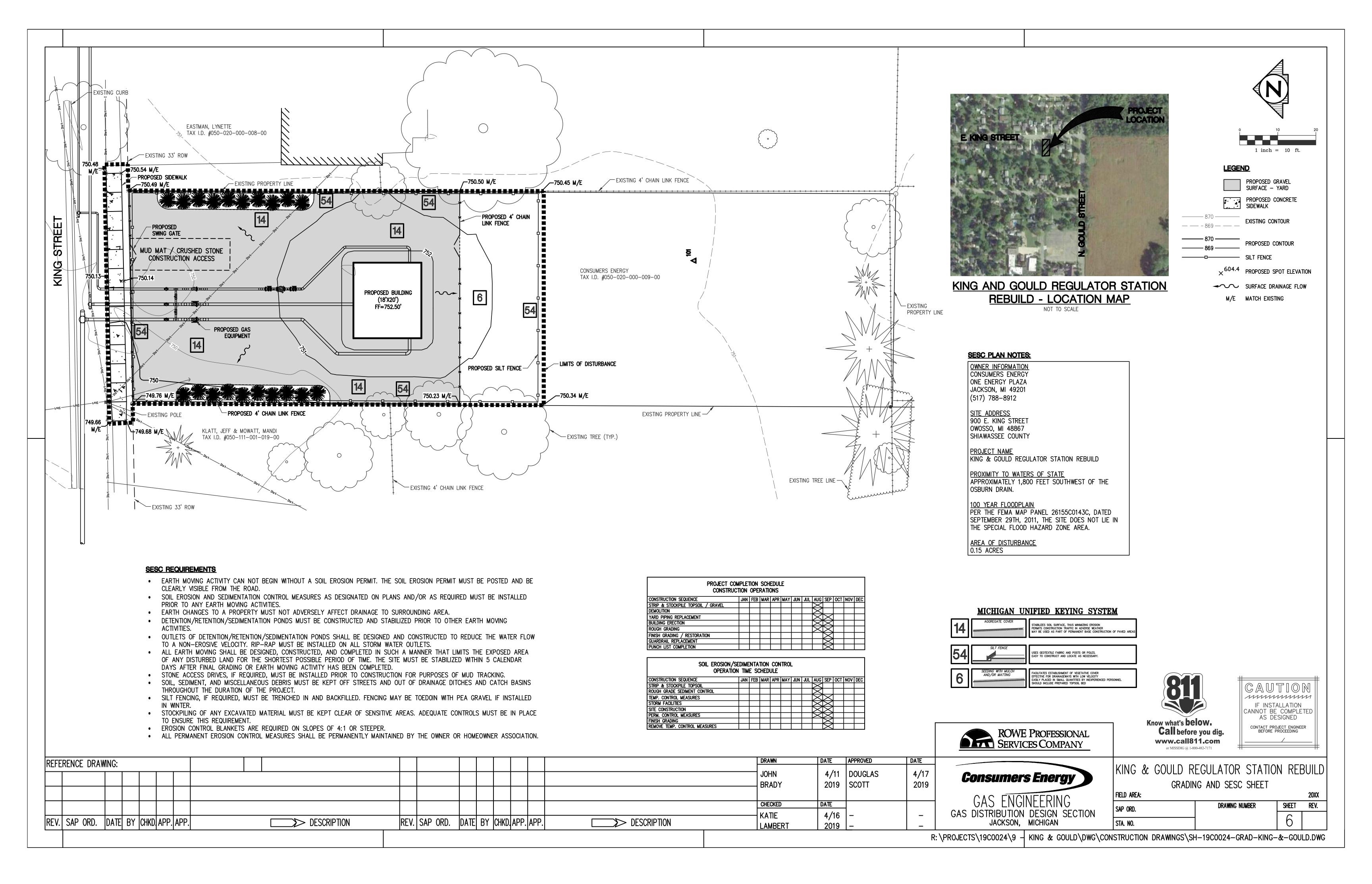
11. ALUMINUM LANDSCAPE EDGING IS TO BE PLACED ALONG PLANTING BED EDGES WHERE MULCH AND LAWN MEET.

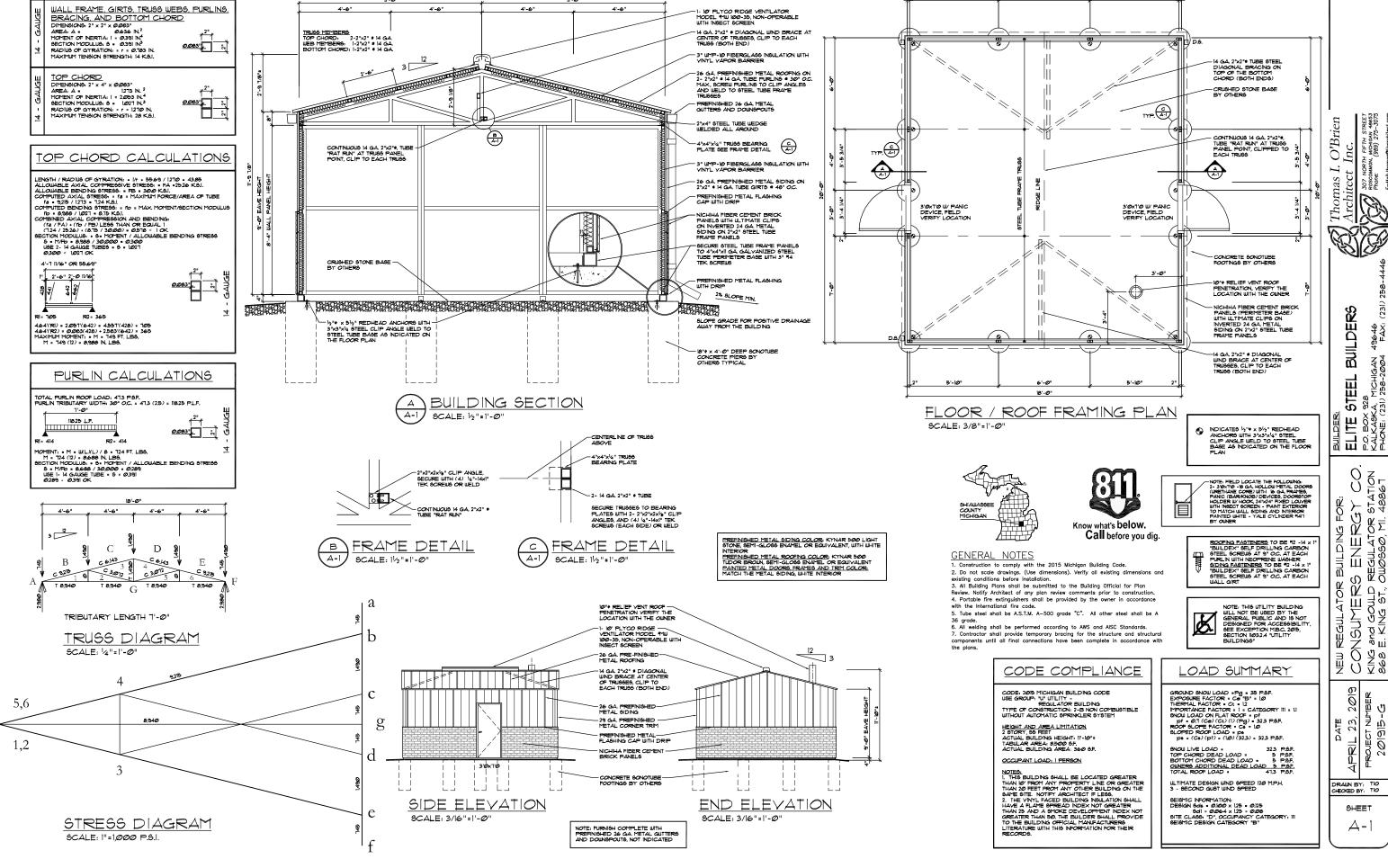
10. THE CONTRACTOR SHALL PLACE 3" OF STONE MULCH IN LANDSCAPE BEDS FOR SPECIFICATIONS.

LAWN AREAS OR AROUND TREES & SHRUBS.

ALL EXCESS EXCAVATED MATERIALS AND DEBRIS WHICH ARE NOT ACCEPTED FOR DISPOSAL ON SITE BY THE

GAS DISTRIBUTION DESIGN SECTION JACKSON, MICHIGAN





TUBE STEEL PROPERTIES

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