

PLANNING AND DEVELOPMENT SERVICES STAFF REPORT

For Planning Commission Meeting of August 7, 2019

**SUBJECT: Shell Gas Station PUD Site Plan & Landscape Modification
(2679 Ann Arbor-Saline Road)
File No. SP18-047**

PROPOSED CITY PLANNING COMMISSION MOTION

The Ann Arbor City Planning Commission hereby recommends that the Mayor and City Council approve the Shell Gas Station Planned Unit Development (PUD) Site Plan and associated Landscape Modifications.

STAFF RECOMMENDATION

Staff recommends that the PUD Site Plan proposal be **approved** because it complies with the PUD supplemental regulations and all the applicable local, state and federal laws, ordinances, standards and regulations; would not cause a public or private nuisance; and would not have a detrimental effect on public health, safety or welfare.

Staff recommends that the Landscape Modifications be **approved** because the modifications are consistent with the intent of the ordinance and are associated with a previously approved site plan.

STAFF REPORT:

This petition was postponed at the July 16th, 2019 City Planning Commission Meeting to allow the petitioner to address and respond to issues raised by the Planning Commission.

Landscaping

The right-of-way landscaping was changed from from Taxacea Baccata to Taxacea Densisormis, a more salt tolerant species.

The bioretention and southwest corner of the proposed building addition have been modified slightly to accommodate the minimum 22-foot wide aisle widths in the proposed parking lot.

Photometric Plan

A lighting plan was added to the site plan set showing existing fixtures pointing downwards and shielded with seven new wall fixtures on the proposed addition shielded and pointing downwards. Per the petitioner, the new bulbs are 3,000K and is equivalent to a 60W LED bulb.

Fence

A concrete walk has been added to the rear of the proposed building to facilitate egress. The walk will have a 4-foot high decorative fence along the length of the building addition. The

petitioner decided not to add a fence along the remainder of the property line and submitted elevations along the east side of the site showing an approximate 10:1 slope . Pictures are attached for review.

STAFF COMMENTS

Planning – The petitioner addressed issues raised by Planning Commission. The proposed addition and existing layout meets the previously approved PUD Supplemental Regulations.

Prepared by Chris Cheng
Reviewed by Brett Lenart
mg/8/1/19

Attachments: [7/16/19 PUD Site Plan, Landscape Plan & Elevations](#)
[Revised Site Plan & Elevations](#)
[Grade Pictures](#)

c: Petitioner/Owner: Abe Ajrouch
2679 Ann Arbor-Saline Road
Ann Arbor, MI 48103

Petitioner's Representative: Todd Quatro
Quatro Construction, LLC
201 North Park Street
Ypsilanti, MI 48198

Project Management
Systems Planning
File No. SP18-047

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Staff recommends that the Landscape Modifications be **approved** because the modifications are consistent with the intent of the ordinance and are associated with a previously approved site plan.

LOCATION

This site is located at the northeast corner of the West Eisenhower and Ann Arbor-Saline Road intersection (South Area and Malletts Creek Watershed).

DESCRIPTION OF PETITION

Previous proposals to remove a former car wash and construct additions to the existing convenience store on this gas station site were approved by City Council in July 2012 and a drive-thru lane and drive-thru window were approved in 2014. The building and site improvements have since been completed.

The petitioner is now proposing to revise the PUD site plan to construct a 4,712-square foot two-story addition on the south side of the building for a new overall floor area of 8,792-square feet.

The curb cuts off Ann Arbor-Saline Road and Eisenhower Blvd. remain the same leading to 16 proposed parking spaces fronting W. Eisenhower. The revised total of 39 parking spaces includes 12 spaces used for the gas pumps. This new parking area facing W. Eisenhower requires a ROW buffer area 15-feet wide with a 30-inch high wall to screen for fueling stations. The petitioner is requesting a landscape modification of 10-feet wide buffer with a 30-inch berm.

No changes are proposed for the drive thru lane, which provides stacking for up to 10 vehicles. A brick paved pedestrian path will extend from the public sidewalk to the convenience store north entrance, with a paved patio in the center of the drive-thru loop for outside dining. A new striped path is proposed from the W. Eisenhower sidewalk to the southern retail/office uses. Two covered bicycle parking spaces are also proposed at the south building addition.

No changes are proposed to the gas pump islands or canopies. No natural features are impacted from this proposal.

100-year storm water detention is required and is located underground at the south end of the site, adjacent to W. Eisenhower. Infiltration is not proposed due to the soils and as required by code is over-detaining at 120 percent. A 727-square foot bio-retention area is also proposed at the southwest corner of the proposed addition.

The petitioner held a neighborhood meeting on January 28, 2019 consistent with the Citizen Participation Ordinance requirements. The main concerns mentioned by the neighbors with this proposal involved additional traffic to the site, dumpster screening, decorative fence and preventing off-site parking in the neighboring Cranbrook site. The petitioner's response to these concerns are attached in the Meeting Minutes.

The PUD Supplemental Regulations are attached and no changes are proposed as the new floor area, setbacks, height, uses and parking meets the minimum requirements. The estimated cost of construction for this project is \$750,000.

SURROUNDING LAND USES AND ZONING

	LAND USE	ZONING
NORTH	Single-Family Residential	R1C (Single-Family Dwelling)
EAST	Cranbrook Shopping Center	C1B (Community Convenience Center)
SOUTH	Restaurant and Offices	PUD (Planned Unit Development)
WEST	Single-Family and Multiple-Family Dwellings	R1C and R4A (Multiple-Family Residential)

COMPARISON CHART

	EXISTING	PROPOSED	PUD SUPPLEMENTAL REGULATIONS REQUIRED/PERMITTED
Zoning	PUD	PUD	PUD
Gross Lot Area	62,809 sq ft (1.44 Acres)	62,809 sq ft (1.44 Acres)	60,000 sq ft MIN (1.38 Acres)
Floor Area in Percentage of Lot Area	4,080 sq ft 6.5%	8,792 sq ft 14%	94,213 sq ft 150% MAX

Setback – Front (Ann Arbor-Saline)	55 ft *	55 ft*	10 ft MIN
Setback – Front (W. Eisenhower)	70 ft*	70 ft*	10 ft MIN
Setback – Rear	4.33 ft	4.33 ft	0 ft MIN
Height	1 story 27 ft	2 story 27 ft	4 stories MAX 50 ft MAX
Parking – Automobile	26 spaces**	39 Spaces**	31 spaces MIN
Parking – Bicycle	2 spaces – Class C	2 spaces – Class B 2 spaces – Class C	2 spaces MIN – Class B 2 spaces MIN – Class C

*Measured from pump canopy

** Includes gas pump spaces

HISTORY

In 1856, the original Mills School was constructed on this site in Pittsfield Township. Between the 1950's and 1990's the building was used as a school and leased to the Washtenaw County apprentice program. In 1967, the parcel was annexed into the City, and it was zoned PL (Public Land) in 1980. In the 1990's, the PTO operated a thrift shop at this site. In 1995, Shell Oil Company requested C2B zoning and was tabled at the request of the Planning Commission to process the site as a PUD. This site was then approved as a PUD for auto service station and carwash. The development agreement was subsequently executed and the buildings constructed.

Additions to the existing convenience store were approved in July 2012 and include 2,189 square feet to the north and east of the existing convenience store and converting the 900 square foot carwash area into new retail space, for a new total of 4,089 square feet.

A 109-square foot drive-thru window received approval by City Council in 2013. This addition has since been completed.

STAFF COMMENTS

Engineering – Sheet C4 – Site Drainage & Utility Plan: A valve is required on the existing 12" water main in Ann Arbor-Saline Road, north of the proposed tapping sleeve and valve, to provide separation between the existing fire hydrant and the proposed fire hydrant.

Development Services – The proposed storm water detention basin located on the southeast corner of the site has adequate volume for the new impervious surface proposed.

Forestry - Per Chapter 55, Section 5.16.3.E., if the buffer width is proposed at 10 feet, a 30-inch opaque wall is necessary. If a wall cannot be installed, then the buffer must have a 15-foot buffer width with a berm or a hedge. Forestry Staff supports the Landscape Modification for this project as it meets the intent to screen the vehicles from the public right-of-way.

Planning – The petitioner has designed the site with pedestrian connections on both Ann Arbor-Saline Road and Eisenhower Blvd., along with a brick paved meeting place at the corner that will be available for the public use to encourage social activity.

Prepared by Chris Cheng
Reviewed by Brett Lenart
mg/7/9/19

Attachments: [Citizen Participation Meeting Summary](#)
[Landscape Modification Application](#)
[Supplemental Regulations](#)
[Zoning/Parcel Maps](#)
[Aerial Photo](#)
[PUD Site Plan, Landscape Plan & Elevations](#)

c: Petitioner/Owner: Abe Ajrouch
2679 Ann Arbor-Saline Road
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Petitioner's Representative: Todd Quatro
Quatro Construction, LLC
201 North Park Street
Ypsilanti, MI 48198

Project Management
Systems Planning
File No. SP18-047

PROJECT CONTACTS

OWNER
 ABE AJROUCH
 2679 ANN ARBOR SALINE RD
 ANN ARBOR MI 48103
 248-982-9617

ARCHITECT
 ROBERT NOE
 9103 N. UNION #135
 TECUMSEH, MI 49286
 PHONE (734) 693-0852

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 QUATRO CONSTRUCTION LLC
 201 N. PARK STREET
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 734-485-7737

GEOTECHNICAL SERVICES
 AGS
 15798 RIVERSIDE
 LIVONIA, MI 48154
 734-679-0379

ENGINEER
 GATEWAY ENGINEERING & SURVEYING
 8155 ANNSBURY, SUITE 109
 SHELBY TWP., MI 48316
 586-786-5533

CITY OF ANN ARBOR
 301 EAST HURON STREET
 ANN ARBOR, MI 48104
 734-794-6000

TRAFFIC ANALYSIS
 SPALDING DeDECKER
 905 SOUTH BLVD EAST
 ROCHESTER HILLS, MI 48307
 248-844-5400

GENERAL NOTES

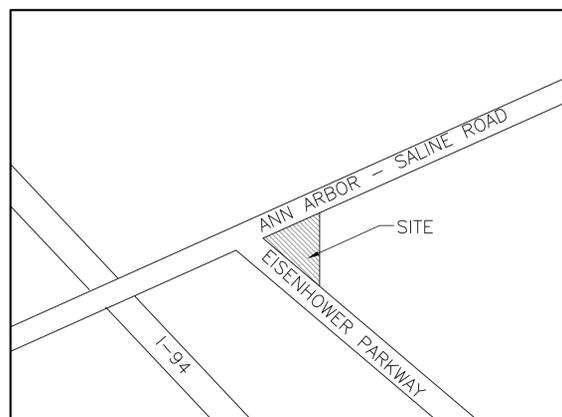
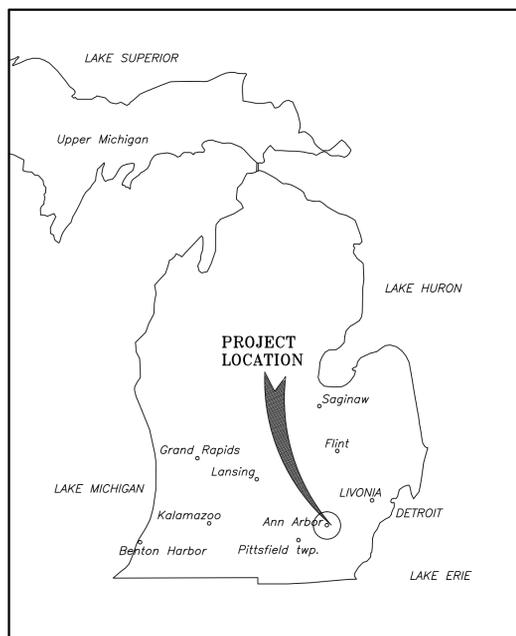
DO NOT SCALE DRAWINGS - WRITTEN DIMENSIONS TAKE PRECEDENCE.
 IN CASE OF DISCREPANCIES OR CONFLICTS, NOTIFY ARCHITECT IMMEDIATELY.
 ALL WOOD IN CONTACT WITH CONCRETE AND AT EXTERIOR LOCATIONS MUST BE PRESSURE TREATED MOISTURE RESISTANT WOOD.
 ALL WALL CONSTRUCTION FACING PLUMBING FIXTURE AREAS MUST UTILIZE MOISTURE RESISTANT GYPSUM BOARD UNLESS OTHERWISE NOTED.
 ALL DOORS TO BE KEYLESS IN DIRECTION OF EGRESS.
 ALL MEANS OF EGRESS DOOR OPENING HARDWARE SHALL BE OPERATED BY A SINGLE HAND WITHOUT MEANS OF TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. ALL DOORS EQUIPPED WITH PANIC HARDWARE MUST MAINTAIN A 32" CLEAR WIDTH. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED:
 A. 8.5 L.B.F. (37.7N) FOR EXTERIOR DOORS.
 B. 5.0 L.B.F. (22.2N) FOR INTERIOR DOORS.
 DOORS SHALL SET IN MOTION WHEN SUBJECTED TO A 30 POUND FORCE & SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE.
 DOORS INDICATED AS PART OF THE REQUIRED MEANS OF EGRESS SHALL HAVE HARDWARE WHICH IS READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR SPECIAL EFFORT.
 PROVIDE FIRE EXTINGUISHERS AS REQUIRED PER APPLICABLE CODES AND COORDINATE EXACT LOCATION WITH BUILDING INSPECTOR.
 PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.
 ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.
 CONTROLS SUCH AS LIGHT SWITCHES, HEATING/AIR CONDITIONING CONTROLS, FIRE ALARM PULLS AND ELECTRICAL OUTLETS ARE WITHIN SPECIFIED REACH RANGES AND HAVE ADEQUATE CLEAR FLOOR SPACE FOR ACCESS. OPERABLE PARTS MUST BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT PINCHING OR GRASPING.
 ALL INTERIOR DIMENSIONS ARE FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED.
 ANY DAMAGE TO LANDLORD'S PROPERTY DURING TENANT DEMOLITION OR CONSTRUCTION (MALL/BUILDING/OTHER FLOORING, BULKHEAD, NEUTRAL PIERS, ETC.) WILL BE REPAIRED PER MALL/BUILDING/OTHER SPECIFICATIONS AT TENANT'S EXPENSE.
 REINFORCING STEEL OR STRUCTURAL FRAMEWORK OF ANY PART OF ANY BUILDING OR STRUCTURE SHALL NOT BE COVERED OR CONCEALED WITHOUT RECEIVING INSPECTION APPROVAL BY THE OFFICE OF CENTRAL INSPECTION. IN ADDITION TO REQUIRED ELECTRICAL, MECHANICAL AND PLUMBING INSPECTIONS, THE BUILDING PERMIT HOLDER OR HIS AGENT SHALL REQUEST THE OFFICE OF CENTRAL INSPECTION TO MAKE THE FOLLOWING CALLED BUILDING CONSTRUCTION INSPECTIONS:
 a. FOUNDATION INSPECTION PRIOR TO THE POURING OF CONCRETE
 b. FRAME INSPECTION AFTER PIPES, CHIMNEYS AND VENTS ARE INSTALLED BUT PRIOR TO CONCEALING THE FRAMEWORK
 c. INSULATION AND WALLBOARD INSPECTION
 d. FINAL INSPECTION PRIOR TO OCCUPANCY OF THE BUILDING
 A SET OF BUILDING PLANS AND SPECIFICATIONS APPROVED BY THE OFFICE OF CENTRAL INSPECTION AND MARKED "FIELD COPY" SHALL BE KEPT ON THE PROJECT DURING CONSTRUCTION UNTIL FINAL INSPECTION APPROVAL HAS BEEN MADE.
 CHANGES MADE, DURING CONSTRUCTION OF A PROJECT, THAT AFFECT EXITING, WALL CONFIGURATION AND STRUCTURAL ELEMENTS THAT ARE NOT JUST "COSMETIC", REQUIRE REVISED PLANS TO BE SUBMITTED TO THE OFFICE OF CENTRAL INSPECTION FOR REVIEW AND APPROVAL. IF A LICENSED ARCHITECT OR ENGINEER SEALED THE ORIGINAL PLANS, THE REVISED PLANS MUST ALSO BE SEALED.

SHELL GAS STATION

2679 ANN ARBOR SALINE ROAD ANN ARBOR MICHIGAN



PROJECT LOCATION



CODE REVIEW

GOVERNING CODES:
 ALL WORK SHALL BE IN CONFORMANCE WITH, BUT NOT LIMITED TO, THE REQUIREMENTS OF THE FOLLOWING:
 AND ANY OTHER STATE AND LOCAL CODES HAVING JURISDICTION.
 BUILDING: 2015 MICHIGAN BUILDING CODE
 MECHANICAL: 2015 MICHIGAN MECHANICAL CODE
 PLUMBING: 2015 MICHIGAN PLUMBING CODE
 ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE W/ PART 8 AMMEND.
 ENERGY: 2015 INTERNATIONAL ENERGY CONSERVATION CODE
 FIRE: 2015 INTERNATIONAL FIRE CODE
 ACCESSIBILITY: 2003 ICC/ANSI A117.1

BUILDING INFORMATION
 CONSTRUCTION TYPE: TYPE VB
 UNPROTECTED- NON-SPRINKLED
 USE GROUP: BUSINESS - B, MERCANTILE - M
 MAX. TRAVEL DISTANCE: 64 FT
 # STORIES: 2
 GROSS LEASED AREA FOR (1) TENANT: 1,290 SQFT
 EXITS PER (1) TENANT: TWO (2) EXITS REQUIRED, TWO (2) EXITS PROVIDED
DOOR EXIST WIDTH
 DOOR EXIST WIDTH - PER 2015 MRC 1005.1
 DOORS = 0.20' / PERSON
 140 OCCUPANTS x .20 = 28"
 EXIT WIDTH REQUIRED = 28" min
 FRONT DOOR WIDTH 6'-4"
 REAR DOOR WIDTH 3'-0"
 PROVIDED EXIT WIDTH 3'-0"

MINIMUM PLUMBING FIXTURES & OCCUPANCY
 PLUMBING FIXTURE COUNT BASED ON THE TYPE OF OCCUPANCY & NUMBER OF OCCUPANTS FROM 2015 MBC & 2015 MPC
TOTAL OCCUPANTS: 140
OCCUPANTS FOR (1) UNIT 140/3: 47 PPL

	23 MALE			SERVICE SINK	DRINKING FOUNTAIN
	URINAL LESS THAN 67% OF REQ. # WC	WATER CLOSETS	LAVATORIES		
REQUIRED	0	1	1		
PROVIDED	0	1	1		

	24 FEMALE		SERVICE SINK	DRINKING FOUNTAIN
	WATER CLOSETS	LAVATORIES		
REQUIRED	1	1	1	1
PROVIDED	1	1	1	1

NATURAL FEATURE IMPACT
 NO NATURE FEATURE IMPACT CHANGE.

MISCELLANEOUS NOTES:
 TENANT'S GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. TENANT'S GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES, INSURANCE, ETC., AS SET FORTH BY THE LANDLORD.

PROJECT DESCRIPTION:

TENANT IMPROVEMENT TO AN EXISTING BUILDING SPACE.

BUILDING SIGNAGE

BUILDING SIGNAGE IS REVIEWED AND PERMITTED SEPARATE FROM BUILDING PERMIT.

EGRESS OCCUPANT LOAD; PER TABLE 1004.1.1

ALLOWABLE
 140 PPL

MERCANTILE:
 RETAIL: 3(1290)/30 = 3870/30 = 129 PPL
 STORAGE: 639/300 = 2.13 = 2 PPL
 OFFICE: 478/60 = 8.0 = 8 PPL

COMMUNITY ANALYSIS

THE USE SHALL NOT CHANGE; THEREFORE THE IMPACT TO LOCAL PUBLIC SCHOOLS SHALL NOT CHANGE. NEIGHBORING USES ARE RESIDENTIAL (SOUTH & WEST) & OFFICE/BUSINESS (NORTH & WEST). AN EXISTING GAS STATION IS USEFUL TO THE EXISTING BUSINESSES & HOMES AROUND IT. IMPACT OF ADJACENT USES ON THIS SITE IS UNCHANGED. THE USE IS UNCHANGED. THE NUMBER OF PUMPING POSITIONS IS UNCHANGED SO IMPACT TO AIR, WATER QUALITY, EXISTING NATURAL FEATURES AND NEIGHBORING SITES IS MINIMAL.

SITE ANALYSIS

THE EXISTING USE IS A GAS STATION / CONVENIENCE STORE. ACTIVITY ON SITE ARE CUSTOMERS IN NEED OF GAS OR OTHER GENERAL CONVENIENCE STORE AMENITIES. THE EXISTING SOIL TYPE IS 6' OF SAND OVER CLAY. THE EXISTING VEGETATION IS LISTED ON THE DEMOLITION PLAN C-2. THERE IS NO 100-YEAR FLOOD PLAIN ON THIS SITE. THE ONLY STEEP SLOPE IS LOCATED IN THE PROPERTY TO THE SOUTH OF THIS SITE. THERE ARE NO WATERCOURSES, WETLANDS OR WOODLANDS ON THIS PROPERTY. EXISTING BUILDINGS/STRUCTURES ARE SHOWN ON C-1. ALL EXISTING UTILITIES ARE SHOWN ON THE SURVEY & C-1.

PROJECT DESCRIPTION

- DRIVEWAY WIDTH ALLOWANCE
 THE FOLLOWING CHANGES ARE PROPOSED:
 1. CONSTRUCTION OF A NEW 2-STORY ADDITION TO THE EXISTING BUILDING ON THE SITE.
 2. WE ARE ADDING ADDITIONAL PAVED PARKING AREA AND THE RECONFIGURATION OF SITE CIRCULATION.
 3. WE ARE REMOVING THE INVASIVE TREES ON SITE AND RELOCATING.

TRAFFIC IMPACT

PUMPING POSITIONS MOVED TO ALLOW BETTER FLOW FROM THE DRIVEWAY ENTRANCE AND PARKING AREAS.
 1. TWO WAY TRAFFIC NOW PROPOSED AROUND PUMPING SPACES (EXTERIOR) AND SINGLE FLOW BETWEEN (INTERIOR).
 2. WHERE AS CURRENTLY THERE IS ONLY ONE WAY TRAFFIC ON ONE SIDE AND IT'S VERY TIGHT (MORE OFTEN THEN NOT PEOPLE WAIT FOR OTHER CARS TO GO FIRST)
 3. WE ARE CLOSING TWO ENTRANCES THAT ARE RIGHT ON THE CORNER.
 4. THUS ALLOWING PEOPLE TO ENTER AND LEAVE THE SITE WITHOUT BLOCKING ON GOING TRAFFIC ON PACKARD AND STADIUM
 5. BUILDING INCREASE OF THIS SIZE HAS RESULTED IN OTHER STORES OF A INCREASE CAR VOLUME OF ~20-30%

INDEX OF DRAWINGS

NO.	DESCRIPTION
● TS1.0	TITLE SHEET, INDEX OF DRAWINGS, PROJECT DATA & VICINITY MAP
● C1	EXISTING SITE/LANDSCAPE PLAN
● C2	DEMOLITION SITE PLAN
● C3	SITE LAYOUT PLAN
● C4	SITE DRAINAGE & UTILITY PLAN
● C5	SOIL EROSION PLAN
● C6	STORAGE CALCULATIONS 1
● C7	SITE DETAILS
● C8	PHOTOMETRIC PLAN
● L1	SITE LANDSCAPING PLAN
● L2	BIO-RETENTION AREA
● A1	PROPOSED FIRST FLOOR PLAN
● A2	PROPOSED SECOND FLOOR PLAN
● A3	EXTERIOR ELEVATIONS
● A4	EXTERIOR ELEVATIONS
● A5	FRAGMENT ELEVATIONS

NOTES:
 DRAWINGS LISTED ABOVE ARE FOR INFORMATION ONLY. THESE DRAWINGS AS LISTED IN THE DRAWING INDEX ALONG WITH THE CONTRACT FOR CONSTRUCTION, ADDENDUMS & OTHER INFORMATION AS PROVIDED TO THE GENERAL CONTRACTOR CONSTITUTE THE INSTRUMENTS OF SERVICE AND ARE CONSIDERED A SINGLE ENTITY. THE CONTRACTOR IS THEREFORE BOUND BY ALL INFORMATION INCLUDED. NONE OF THIS INFORMATION OR DRAWING SHEETS SHALL BE TAKEN SEPARATELY OR "STAND ALONE" FROM THE REMAINDER OF THE CONSTRUCTION DOCUMENTS. ALL SUBCONTRACTORS SHALL BE RESPONSIBLE TO REVIEW THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TO DETERMINE THEIR PARTICULAR SCOPE OF WORK. ANY DISCREPANCIES OR CONFLICTING INFORMATION NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING A BID SHALL BE INTERPRETED AT THE SOLE DISCRETION OF THE ARCHITECT.

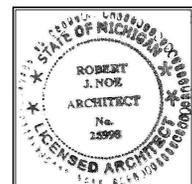
SPALDING DeDECKER

THE PEAK HOURS OF TRAFFIC ON ANN ARBOR-SALINE RD AND EISENHOWER PKWY ARE SHOWN IN TABLE 1 BELOW. THESE TRAFFIC PREDICTION ARE DETERMINED USING THE SQUARE FOOTAGE OF THE CONVENIENCE MARKET AND PROPOSED BUILDING.

	AREA (SFT)	AM PEAK HOUR		PM PEAK HOUR	
		EXISTING	PROPOSED	EXISTING	PROPOSED
SUPER CONVENIENCE MARKET/GAS STATION (USE NO.960)	TRIP GENERATION RATE(PER 1000 SFT)	83.1	83.1	69.3	69.3
	SPLIT(ENTERING/EXITING)	50%/50%	50%/50%	50%/50%	50%/50%
	TRIP GENERATION RATE(PER 1000 SFT)	NA	1550	NA	1550
MEDICAL-DENTAL OFFICE BUILDING (USE NO.720)	TRIP GENERATION RATE(PER 1000 SFT)	NA	2.8	NA	3.5
	SPLIT(ENTERING/EXITING)	NA	78%/22%	NA	28%/72%
	TRIP GENERATION RATE(PER 1000 SFT)	NA	0.3	NA	4.3
TOTAL TRAFFIC GENERATED	TRIP GENERATION RATE(PER 1000 SFT)	NA	64%/36%	NA	49%/51%
	ENTERING TRAFFIC	340	350	282	306
	EXITING TRAFFIC	170	178	141	150

TABLE 1: TRIP GENERATION
 THE AMOUNT OF TRAFFIC GENERATED BY THE NEW BUILDING IS APPROXIMATELY 5% COMPARED TO THE NUMBER OF TRIPS THE SITE IS CURRENTLY GENERATING.

TRAFFIC SPLIT
 THE DETERMINATION OF HOW MANY VEHICLES UTILIZE EACH ENTRANCE AND EXIT FOR THE SITE IS BASED ON THE ROADWAY VOLUME. ACCORDING TO SEMCOG'S (SOUTHEAST MICHIGAN COUNCIL OF GOVERNMENTS) TRAFFIC DATA, APPROXIMATELY 60% OF THE TRAFFIC AT THIS INTERSECTION IS ON ANN ARBOR-SALINE ROAD, WITH THE REMAINING 40% ON EISENHOWER BOULEVARD. THESE DISTRIBUTION ASSIGNMENTS WERE APPLIED TO THE ANTICIPATED TRIPS AT THE SITE AND ARE SHOWN.



DATE	REVISION	BY	DATE
4/23/18	REV-1	TS	4/23/18
9/19/18	REV-2	TS	9/19/18
10/02/18	REV-3	TS	10/02/18
10/24/18	REV-4	TS	10/24/18
11/15/18	REV-5	TS	11/15/18

DRAWN BY: K.C./V.L.
 CHECKED BY: T.Q.
 APPROVED BY: T.Q.

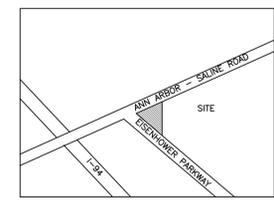
DWG FILE:
 PROJECT NO.:
2686

SHEET TITLE:
TITLE SHEET

SHEET NO.:
TS1.0

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ROBERT NOE
ARCHITECTURE
9103 NUNION #135
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(734)693-0852



LOCATION MAP
NTS

LEGAL DESCRIPTION

PART OF THE SOUTHEAST 1/4 OF SECTION 6, T3S, R6E, CITY OF ANN ARBOR, WASHENAW COUNTY, MICHIGAN MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 6; THENCE S 0°18'35"E 818.83 FEET ALONG THE EAST LINE OF SAID SECTION TO A POINT ON THE SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD FOR A PLACE OF BEGINNING; THENCE CONTINUING S 0°18'35"E 500.81 FEET ALONG SAID EAST LINE AND THE CENTER LINE VACATED LOHR ROAD TO A POINT ON THE NORTHERLY LINE OF EISENHOWER PARKWAY; THENCE N 46°28'10"W 347.17 FEET ALONG THE NORTHERLY LINE OF SAID EISENHOWER PARKWAY TO THE INTERSECTION WITH SAID SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD; THENCE N 43°34'35"E 361.22 FEET ALONG SAID SOUTHERLY LINE TO THE PLACE OF BEGINNING; CONTAINING 1.44 ACRES OF LAND, BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

GENERAL NOTES

SPECIAL CONDITIONS

THE OWNER, GENERAL CONTRACTOR, THE INDIVIDUAL SUBCONTRACTOR AND MATERIAL MAN AGREE TO SAVE THE ARCHITECT HARMLESS, AS A RESULT OF ANY INJURY OR DAMAGE THAT MAY OCCUR TO ANY INDIVIDUAL OR PROPERTY DURING CONSTRUCTION AS A RESULT OF ACTS OR OMISSIONS BY SAID OWNER, CONTRACTORS AND/OR MATERIAL MEN DURING THE PERFORMANCE OF THEIR WORK.

ALL WORK WILL PROCEED IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL SAFETY CODES, STATUTES AND RECOGNIZED STANDARDS.

THE GENERAL CONTRACTOR SHALL OBTAIN THE GENERAL BUILDING PERMIT(S), PAY ALL FEES AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK.

NO MATERIALS OR CONSTRUCTION PROCEDURES SHALL BE UTILIZED ON THIS PROJECT WHICH ARE PROHIBITED BY LAW OR SHALL CAUSE A HARMFUL EFFECT ON THE ENVIRONMENT OR TO ANY PERSON ON THE SITE DURING CONSTRUCTION OR LATER OCCUPANCY.

INSURANCE

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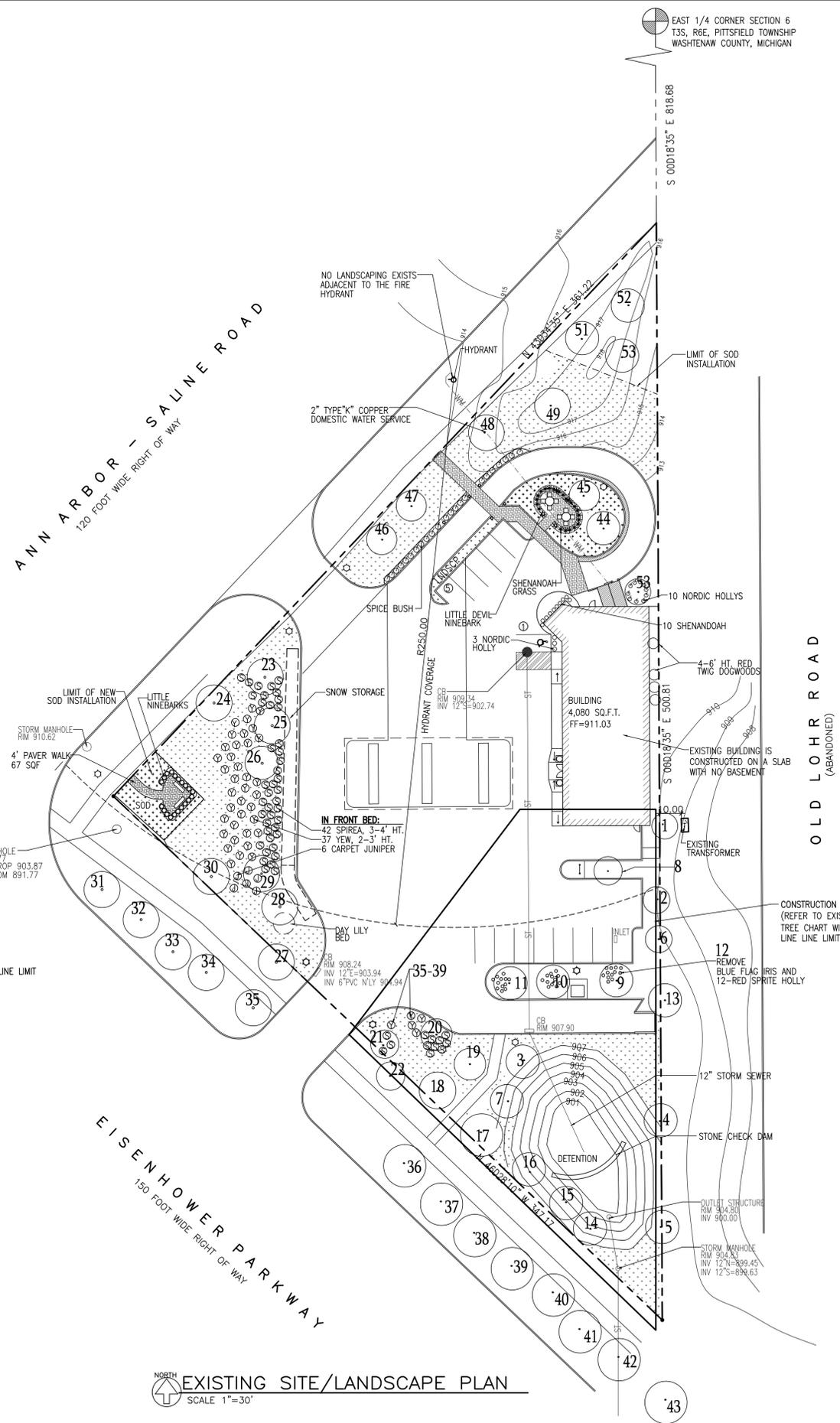
FIELD CONDITIONS

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IN GENERAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ONLY THOSE TREES WITHIN THE BUILDING AREA SHALL BE REMOVED. ALL OTHERS WILL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PERIOD.

EXISTING SCHEDULE OF PLANTS	LM	DBH	CNDS	KEPT/REMOVE
1- 5" SUGAR MAPLE	N	5"	FAIR	1- *KEPT
2- 5" SUGAR MAPLE	N	5"	FAIR	2- *KEPT
3- 6" SPRUCE	N	6"	FAIR	3- *KEPT
4- 6" SPRUCE	N	6"	FAIR	4- *KEPT
5- 6" SPRUCE	N	6"	FAIR	5- *KEPT
6- 6" SUGAR MAPLE	N	6"	FAIR	6- *KEPT
7- 5" SPRUCE	N	5"	GOOD	7- *KEPT
8- SWEET GUM 2" CAL.	N	"	GOOD	8- *KEPT
9- BLACK GUM 2" CAL.	N	"	GOOD	9- *KEPT
10- BLACK GUM 2" CAL.	N	"	FAIR	10- *KEPT
11- BLACK GUM 2" CAL.	N	"	FAIR	11- *KEPT
12- 12" RED HOLLIES	N	"	FAIR	12- *KEPT
13- 8" SPRUCE	N	8"	FAIR	13- *KEPT
14- WHITE SPRUCE	N	"	FAIR	14- *KEPT
15- WHITE SPRUCE	N	"	FAIR	15- *KEPT
16- WHITE SPRUCE	N	"	GOOD	16- *KEPT
17- 7" SUGAR MAPLE	N	7"	FAIR	17- *KEPT
18- 8" CRAB APPLE	N	8"	FAIR	18- *KEPT
19- 12" BIRCH CLUMP	N	"	GOOD	19- *KEPT
20- 12" BIRCH CLUMP	N	"	GOOD	20- *KEPT
21- 12" PINE	N	12"	FAIR	21- *KEPT
22- 10" PINE	N	10"	GOOD	22- *KEPT
23- 8" LINDEN	N	"	FAIR	23- *KEPT
24- 8" LINDEN	N	"	FAIR	24- *KEPT
25- 8" LINDEN	N	"	FAIR	25- *KEPT
26- 6" SPRUCE	N	"	FAIR	26- *KEPT
27- 8" OAK	N	8"	FAIR	27- *KEPT
28- 8" LINDEN	N	8"	FAIR	28- *KEPT
29- 8" LINDEN	N	8"	FAIR	29- *KEPT
30- 8" LINDEN	N	8"	FAIR	30- *KEPT
31- CRAB APPLE	N	"	FAIR	31- *KEPT
32- CRAB APPLE	N	"	FAIR	32- *KEPT
33- CRAB APPLE	N	"	FAIR	33- *KEPT
34- CRAB APPLE	N	"	FAIR	34- *KEPT
35- SUGAR MAPLE	N	"	FAIR	35- *KEPT
36- CRAB APPLE	N	"	FAIR	36- *KEPT
37- CRAB APPLE	N	"	FAIR	37- *KEPT
38- CRAB APPLE	N	"	FAIR	38- *KEPT
39- SUGAR MAPLE	N	6"	FAIR	39- *KEPT
40- CRAB APPLE	N	"	FAIR	40- *KEPT
41- CRAB APPLE	N	"	FAIR	41- *KEPT
42- 8" LINDEN	N	8"	GOOD	42- *KEPT
43- 8" LINDEN	N	8"	GOOD	43- *KEPT
44- SWEET GUM	N	2"	FAIR	44- *KEPT
45- 5" SUGAR MAPLE	N	5"	FAIR	45- *KEPT
46- 5" SUGAR MAPLE	N	5"	FAIR	46- *KEPT
47- 5" SUGAR MAPLE	N	5"	FAIR	47- *KEPT
48- 6" SUGAR MAPLE	N	6"	FAIR	48- *KEPT
49- 6" SUGAR MAPLE	N	6"	FAIR	49- *KEPT
50- 6" SPRUCE	N	6"	FAIR	50- *KEPT
51- 6" SPRUCE	N	6"	FAIR	51- *KEPT
52- 6" SPRUCE	N	6"	FAIR	52- *KEPT
53- 5" SUGAR MAPLE	N	5"	FAIR	53- *KEPT

#23-26 ON CHART ARE NOT INCLUDED WITHIN THE CONSTRUCTION LINE LIMIT (REFERENCE LANDSCAPE ISLAND THAT IS IN THE CORNER OF EISENHOWER PKWY AND ANN ARBOR-SALINE RD)



EXISTING SITE/LANDSCAPE PLAN
SCALE 1"=30'

LEGEND

- S-S- PROPOSED STORM
- W-W- PROPOSED WATER
- G-G- PROPOSED GAS
- San-San- PROPOSED SANITARY
- San- EXISTING SANITARY
- W-W- EXISTING WATER
- G-G- EXISTING OH WIRES
- S-S- EXISTING GAS
- S-S- EXISTING STORM
- 74.1, 75 EXISTING GRADE
- T/A TOP OF ASPHALT
- T/C TOP OF CURB
- T/G TOP OF GUTTER
- T/W TOP OF WALK
- HYDRANT
- STRUCTURE
- EXISTING LIGHT POST
- SOD
- GRASS
- PAVED AREA
- EXISTING TREE

QUATRO CONSTRUCTION LLC
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YPSILANTI, MI. 48198
PHONE (734)485-7737, FAX (734)485-7873

SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI

ISSUE DATE	DESCRIPTION
08/08/17	5/30/19
05/31/18	19/19
10/01/18	
10/24/18	
12/10/18	
1/10/19	
2/28/19	
3/1/19	
3/19/19	
4/22/19	
5/02/19	

DRAWN BY: K.C./V.L.
CHECKED BY: T.Q.
APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.: **2686**
SHEET TITLE: **EX. SITE/LANDSCAPE PLAN**
SHEET NO.: **C1**



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GENERAL NOTES

SPECIAL CONDITIONS

THE OWNER, GENERAL CONTRACTOR, EACH INDIVIDUAL SUBCONTRACTOR AND MATERIALSMAN AGREE TO WAIVE THE ARCHITECT HARMLESS, AS A RESULT OF ANY INJURY OR DAMAGE THAT MAY OCCUR TO ANY INDIVIDUAL OR PROPERTY DURING CONSTRUCTION AS A RESULT OF ACTS OR OMISSIONS BY SAID OWNER, CONTRACTORS AND/OR MATERIALSMEN DURING THE PERFORMANCE OF THEIR WORK.

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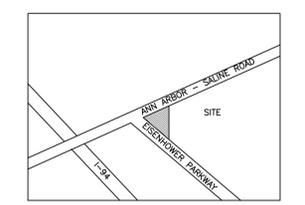
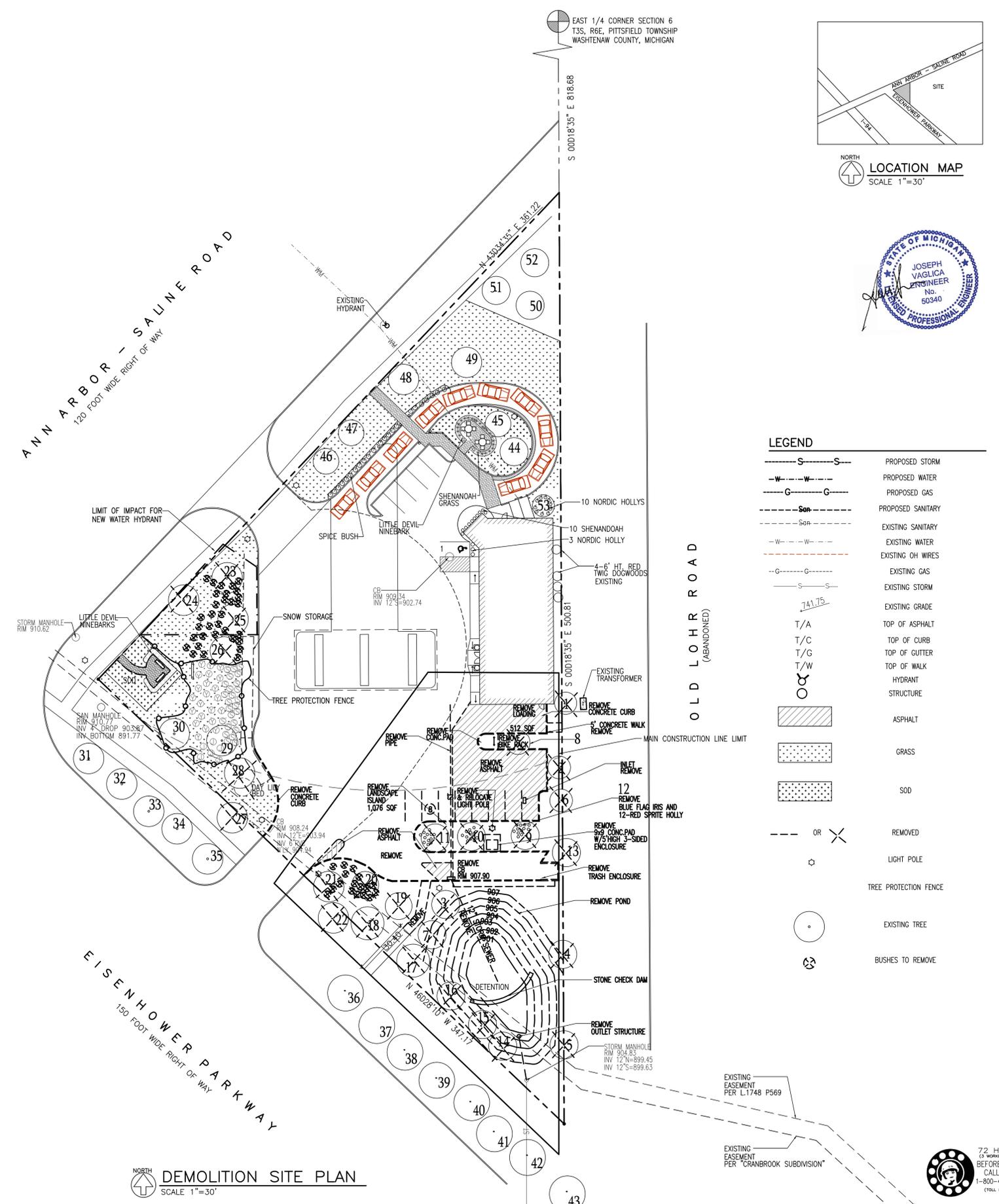
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LEGAL DESCRIPTION

PART OF THE SOUTHEAST 1/4 OF SECTION 6, T3S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 6;
 THENCE S 00°18'35"E 818.93 FEET ALONG THE EAST LINE OF SAID SECTION TO A POINT ON THE SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD FOR A PLACE OF BEGINNING;
 THENCE CONTINUING S 00°18'35"E 500.81 FEET ALONG SAID EAST LINE AND THE CENTER LINE VACATED LOHR ROAD TO A POINT ON THE NORTHERLY LINE OF EISENHOWER PARKWAY; THENCE N 46°28'10"W 347.17 FEET ALONG THE NORTHERLY LINE OF SAID EISENHOWER PARKWAY TO THE INTERSECTION WITH SAID SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD; THENCE N 43°34'35"E 361.22 FEET ALONG SAID SOUTHERLY LINE TO THE PLACE OF BEGINNING.
 CONTAINING 1.44 ACRES OF LAND, BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

EXISTING SCHEDULE OF PLANTS	LM	DBH	CNDS	KEPT/REMOVE
1- 5" SUGAR MAPLE	N	5"	FAIR	1- REMOVE
2- 5" SUGAR MAPLE	N	5"	FAIR	2- REMOVE
3- 6" SPRUCE	N	6"	FAIR	3- REMOVE
4- 6" SPRUCE	N	6"	FAIR	4- REMOVE
5- 6" SPRUCE	N	6"	FAIR	5- REMOVE
6- 6" SUGAR MAPLE	N	6"	FAIR	6- REMOVE
7- 5" SPRUCE	N	5"	GOOD	7- REMOVE
8- SWEET GUM 2" CAL	N	"	GOOD	8- REMOVE
9- BLACK GUM 2" CAL	N	"	GOOD	9- REMOVE
10- BLACK GUM 2" CAL	N	"	FAIR	10- REMOVE
11- BLACK GUM 2" CAL	N	"	FAIR	11- REMOVE
12- 12 RED HOLLIES	N	"	FAIR	12- REMOVE
13- 8" SPRUCE	N	8"	FAIR	13- REMOVE
14- WHITE SPRUCE	N	"	FAIR	14- REMOVE
15- WHITE SPRUCE	N	"	FAIR	15- REMOVE
16- WHITE SPRUCE	N	"	GOOD	16- REMOVE
17- 7" SUGAR MAPLE	N	7"	FAIR	17- REMOVE
18- 8" CRAB APPLE	N	8"	FAIR	18- REMOVE
19- 12" BIRCH CLUMP	N	"	GOOD	19- REMOVE
20- 12" BIRCH CLUMP	N	"	GOOD	20- REMOVE
21- 12" PINE	N	12"	FAIR	21- REMOVE
22- 10" PINE	N	10"	GOOD	22- REMOVE
23- 8" LINDEN	N	"	FAIR	23- REMOVE
24- 8" LINDEN	N	"	FAIR	24- REMOVE
25- 8" LINDEN	N	"	FAIR	25- REMOVE
26- 6" SPRUCE	N	"	FAIR	26- REMOVE
27- 8" OAK	N	8"	FAIR	27- REMOVE
28- 8" LINDEN	N	8"	FAIR	28- REMOVE
29- 8" LINDEN	N	8"	FAIR	29- KEPT
30- 8" LINDEN	N	8"	FAIR	30- KEPT
31- CRAB APPLE	N	"	FAIR	31- KEPT
31- CRAB APPLE	N	"	FAIR	31- KEPT
32- CRAB APPLE	N	"	FAIR	32- KEPT
33- CRAB APPLE	N	"	FAIR	33- KEPT
34- CRAB APPLE	N	"	FAIR	34- KEPT
35- SUGAR MAPLE	N	"	FAIR	35- KEPT
36- CRAB APPLE	N	"	FAIR	36- KEPT
37- CRAB APPLE	N	"	FAIR	37- KEPT
38- CRAB APPLE	N	"	FAIR	38- KEPT
39- SUGAR MAPLE	N	6"	FAIR	39- KEPT
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45- 5" SUGAR MAPLE	N	5"	FAIR	45- KEPT
46- 5" SUGAR MAPLE	N	5"	FAIR	46- KEPT
47- 5" SUGAR MAPLE	N	5"	FAIR	47- KEPT
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53- 5" SUGAR MAPLE	N	5"	FAIR	53- KEPT

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LEGEND

- S---S--- PROPOSED STORM
- W-W- PROPOSED WATER
- G-G- PROPOSED GAS
- San--- PROPOSED SANITARY
- San--- EXISTING SANITARY
- W-W- EXISTING WATER
- G-G- EXISTING GAS
- S-S- EXISTING STORM
- 741.75--- EXISTING GRADE
- T/A TOP OF ASPHALT
- T/C TOP OF CURB
- T/G TOP OF GUTTER
- T/W TOP OF WALK
- HYDRANT
- STRUCTURE
- ASPHALT
- GRASS
- SOD
- OR X REMOVED
- LIGHT POLE
- TREE PROTECTION FENCE
- EXISTING TREE
- BUSHES TO REMOVE

DEMOLITION SITE PLAN
 SCALE 1"=30'

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SHELL GAS STATION
 2679 ANN ARBOR SALINE RD
 ANN ARBOR MI

ISSUE DATE	REV
08/08/17	11
10/23/18	12
12/11/18	13
1/9/19	14
2/22/19	15
2/27/19	16
3/19/19	17
4/22/19	18
4/23/19	19
5/02/19	20
5/17/19	21

DRAWN BY: K.C./V.L.
 CHECKED BY: T.Q.
 APPROVED BY: T.Q.

PROJECT NO.: **2686**
 SHEET TITLE: **DEMOLITION SITE PLAN**

SHEET NO.: **C2**



GENERAL NOTES

SPECIAL CONDITIONS

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CITY STANDARDS

PER CHAPTER 49, SECTION 4-58 OF THE CITY CODE, ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME. PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS.

SITE RESPONSIBILITIES

SITE IS RESPONSIBLE FOR OPENING AND CLOSING ENCLOSURES AND MOVING CONTAINERS ON SERVICE DAYS.

DESCRIPTION	VARIANCE			
	REQUIRED	EXISTING	PROPOSED	
ZONING	PUD/C1B	PUD/C1B	PUD/C1B	NO CHANGE
FRONT YARD-BLDG	10	88.55	88.55	NO CHANGE
SIDE YARD	0	132.17	58.00	
REAR YARD	0	4.33	4.33	NO CHANGE
LOADING		15.5x32.83		VARIANCE
PARKING	32 MIN	14	39	NO VARIANCE
PARKING SPACE	9x18(9x16')	9x16	9x18	
HC PARKING	1	1	3	
PARKING AISLE	22	22	22	NO CHANGE
BICYCLE PARKING	3	1	3	
MAXIMUM HEIGHT	50	27	25	
STORIES	4	1	2	
FLOOR AREA		4,080	4,740	
LOT SIZE		62,809.1 SQF 1.44 ACRE	62,809.1 SQF 1.44 ACRE	NO CHANGE
MAX ALLOWED FLOOR AREA IN % OF LOT AREA	40%	6.5%	12%	

* 16' LONG IF 2' OF OVERHANG IS PROVIDED WHEN PARKING AGAINST THE CURB

BYCICLES PARKING CALCULATION

EXISTING RETAIL 3080/3000= 1.03 SPACES
 EXISTING STATION 0 SPACES
 PROPOSED RETAIL 3,645/3000 1.2 SPACE
BICYCLE PARKING REQUIRED 3 SPACES

VEHICLE & BICYCLE PARKING SIZE

VEHICLE PARKING STALL 9' WIDE X 18' DEPTH (16' LONG, IF 2' OF OVERHANG IS PROVIDED WHEN PARKING AGAINST A CURB)

BICYCLE PARKING STALL 2' WIDE X 6' DEPTH W/ 3' MIN. CLEAR ACCESS AISLE WIDTH.

EXISTING PARKING CALCULATIONS

RESTAURANT 680/100= 7 SPACES
 FUELING STATION 1000/200= 5 SPACES
 RETAIL 2400/310= 8 SPACES

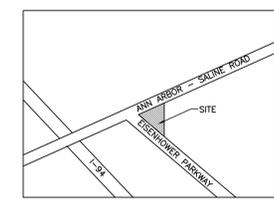
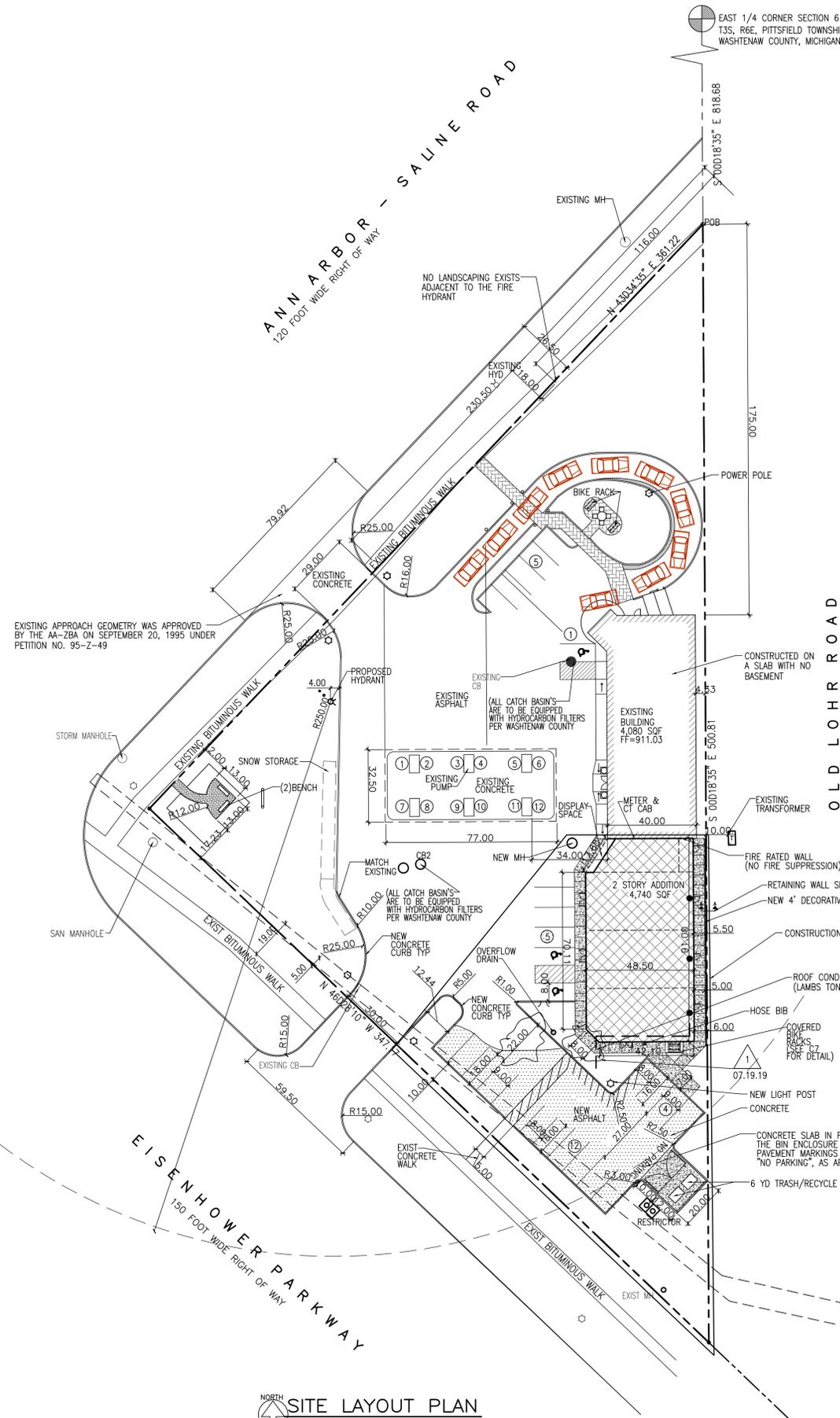
TOTAL REQUIRED **20 SPACES**

PROPOSED PARKING CALCULATIONS

RETAIL 3645/310= 12 SPACES
 OFFICE 478/333= 2 SPACES
 STORAGE 616.81/2000= 1 SPACES

TOTAL REQUIRED **15 SPACES**

GRAND TOTAL **35 SPACES**



SITE NOTES

ALL CATCH BASINS ARE TO BE EQUIPPED WITH HYDROCARBON FILTERS PER WASHTENAW COUNTY STANDARDS

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LEGEND

- PAVED AREA [Symbol]
- NEW ASPHALT [Symbol]
- PROPOSED BUILDING [Symbol]
- GRASS [Symbol]
- PROPOSED SIDEWALK [Symbol]
- LIGHT POST [Symbol]
- PROPOSED STORM [Symbol]
- PROPOSED WATER [Symbol]
- PROPOSED SANITARY [Symbol]
- EXISTING SANITARY [Symbol]
- EXISTING WATER [Symbol]
- EXISTING OH WIRES [Symbol]
- EXISTING GAS [Symbol]
- EXISTING STORM [Symbol]
- EXISTING GRADE [Symbol]
- TOP OF ASPHALT T/A
- TOP OF CURB T/C
- TOP OF GUTTER T/G
- TOP OF WALK T/W
- HYDRANT [Symbol]
- STRUCTURE [Symbol]
- BIKE RACK [Symbol]
- 5' WALKWAY [Symbol]
- EXISTING PUMP [Symbol]

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SHELL GAS STATION
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 ANN ARBOR MI

ISSUE DATE	
5/31/18	5/06/19
9/19/18	5/21/19
10/02/18	2/28/19
10/24/18	3/1/19
10/30/18	3/05/19
11/08/18	3/12/19
11/09/18	3/22/19
12/11/18	3/29/19
1/9/19	4/19/19
1/25/19	4/24/19
2/5/19	5/02/19

DRAWN BY: K.C./V.L.
 CHECKED BY: T.Q.
 APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.: **2686**

SHEET TITLE: **SITE LAYOUT PLAN**

SHEET NO.: **C3**



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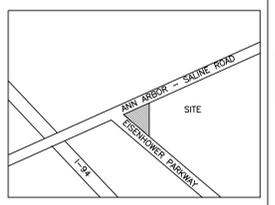
SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI

ISSUE DATE		
5/31/18	2/8/19-REV	5/06/19
9/19/18	2/27/19-REV	5/21/19
10/02/18	2/28/19	7/08/19
10/24/18	3/1/19	7/11/19
10/30/18	3/05/19	7/15/19
11/08/18	3/12/19	7/15/19
11/09/18	3/22/19	
12/11/18	3/29/19	
1/9/19	4/19/19	
1/25/19	4/24/19	
2/5/19	5/02/19	

DRAWN BY: K.C./V.L.
CHECKED BY: T.Q.
APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.: 2686
SHEET TITLE: SITE DRAINAGE & UTILITY PLAN
SHEET NO.: C4



STORM DETENTION NARRATIVE:

THE EXISTING STORM WATER IS DIRECTED TO A STORM WATER DETENTION BASIN WITH AN OUTLET RESTRICTOR. TOTAL SITE IS 1.44 AC WITH 32,063 SFT OR .74 AC OF IMPERVIOUS AREA AND REQUIRES 11,375 C.F. OF STORAGE. WE HAD A PERK TEST PERFORMED BY "APPLIED GEOTECHNICAL SERVICES", INDICATING THAT THE EXISTING CONDITIONS WERE NOT CONDUCTIVE TO INFILTRATION. THE NEW PROJECT HAS INCREASED THE IMPERVIOUS AREA BY 17,615 SFT, OR .40 AC. THIS INCREASES THE DETENTION VOLUME TO 19,150 CFT. WE PROPOSED TO ACHIEVE THIS BY INSTALLING A COMPLETELY ENCLOSED UNDERGROUND SYSTEM WITH AN OUTLET STRUCTURE AS DETAILED ON PLAN.

SITE NOTES

ALL CATCH BASINS ARE TO BE EQUIPPED WITH HYDROCARBON FILTERS PER WASHTENAW COUNTY STANDARDS

LEGAL DESCRIPTION

PART OF THE SOUTHEAST 1/4 OF SECTION 6, T3S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 6; THENCE S 00°18'35" E 818.93 FEET ALONG THE EAST LINE OF SAID SECTION TO A POINT ON THE SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD FOR A PLACE OF BEGINNING; THENCE CONTINUING S 00°18'35" E 500.81 FEET ALONG SAID EAST LINE AND THE CENTER LINE VACATED LOHR ROAD TO A POINT ON THE NORTHERLY LINE OF EISENHOWER PARKWAY; THENCE N 46°28'10" W 347.17 FEET ALONG THE NORTHERLY LINE OF SAID EISENHOWER PARKWAY TO THE INTERSECTION WITH SAID SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD; THENCE N 43°34'35" E 361.22 FEET ALONG SAID SOUTHERLY LINE TO THE PLACE OF BEGINNING. CONTAINING 1.44 ACRES OF LAND, BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

CITY STANDARDS

PER CHAPTER 49, SECTION 4.58 OF THE CITY CODE. ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ADJUTING THE SAME. PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS.

LEGEND

	PROPOSED STORM
	PROPOSED WATER
	PROPOSED GAS
	PROPOSED SANITARY
	EXISTING SANITARY
	EXISTING WATER
	EXISTING OH WIRES
	EXISTING GAS
	EXISTING STORM
	EXISTING GRADE
	T/A
	T/C
	T/G
	T/W
	HYDRANT
	STRUCTURE
	LIGHT POST
	BIKE RACK

EASEMENT "B"
A sanitary sewer easement of varying width being a part of the S.W. 1/4 of Section 5 and the S.E. 1/4 of Section 6, City of Ann Arbor, Washtenaw County, Michigan, described as follows:
Commencing at the S. 1/4 corner of Section 5, T.3S., R.6E., City of Ann Arbor, Washtenaw County, Michigan, and proceeding thence S 86° 38' 10" W 722.68 feet along the south line of said section and thence 21° 50' W 25.18 feet to the point of beginning, proceeding thence 1276.72 feet along the arc of a curve to the right having a radius of 1543.95 feet passing through a central angle of 64° 29' 57" with a long chord bearing S 70° 16' 39" W 1244.87 feet; thence S 48° 01' 40" W 1835.59 feet; thence S 41° 58' 10" E 3.52 feet; thence S 51° 38' 00" E 359.92 feet; thence S 77° 31' 25" E 139.93 feet; thence S 48° 01' 40" E 603.03 feet; thence S 49° 57' 53" E 305.77 feet; thence S 47° 55' 14" E 248.98 feet; thence S 55° 51' 24" E 268.36 feet; thence S 69° 11' 09" E 397.13 feet; thence S 78° 43' 14" E 381.54 feet; thence S 43° 00' 00" E 85.02 feet to point of beginning.
Also, a 50-foot wide temporary construction easement lying north of the above described sanitary sewer easement, said temporary easement to revert back to the owner upon City acceptance of the sanitary sewer.
PER LIBER 1784, PAGE 569

ALSO A 50 FT WIDE TEMPORARY CONSTRUCTION EASEMENT LYING NORTH OF THE ABOVE DESCRIBED SANITARY SEWER EASEMENT, SAID TEMPORARY EASEMENT TO REVERT BACK TO THE OWNER UPON CITY ACCEPTANCE OF THE SANITARY SEWER.

EXHIBIT B
ANN ARBOR-SALINE ROAD
ANN ARBOR, MICHIGAN

T.S. QUATRO COMPANY
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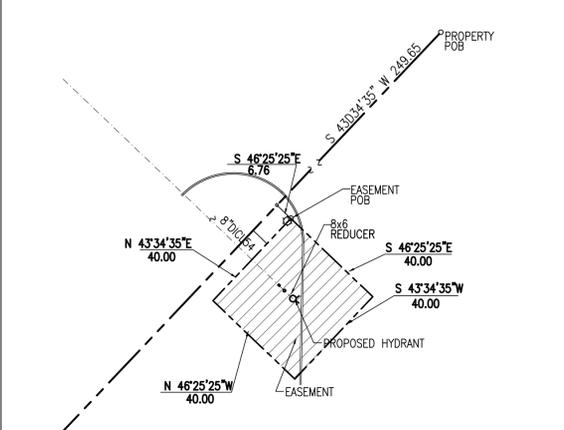
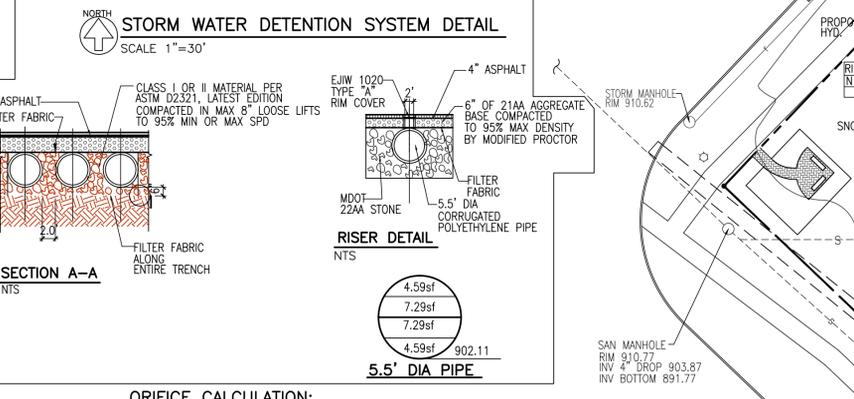
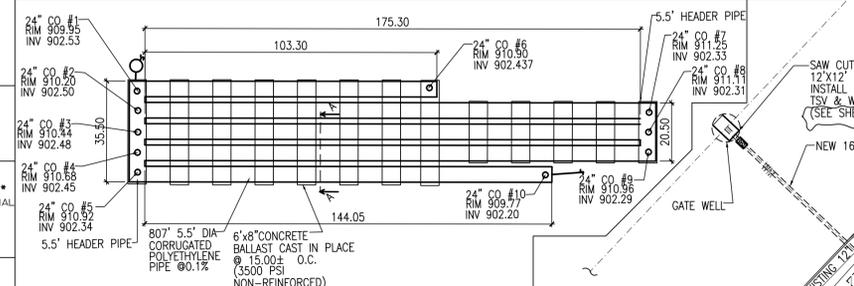


EXHIBIT A
ANN ARBOR-SALINE ROAD
ANN ARBOR, MICHIGAN

T.S. QUATRO COMPANY
DESIGN BUILD CONTRACTOR
COMMERCIAL/INDUSTRIAL/RESIDENTIAL
201 NORTH PARK STREET
YPSILANTI, MI 48198
PHONE (734) 485-7737
FAX (734) 485-7873

DATE: 05/03/19
JOB NO. 2686
DRAWING NO. SHEET 1 OF 1
SCALE: 1"=30'

ADDITIONAL STORAGE REQUIRED:

$C = .81$
 $A = 1.44$ AC
 First Flush
 $V_{ff} = 1392$ cf
 Bank Full
 $V_{bf} = 2141$ cf
 100 YEARS FLOOD
 $V_{100} = 7775$ cf

5.5" DIA PIPE STORAGE REQUIRED LENGTH
 $V_{req} = 19150$
 $\frac{V_{ff} + V_{bf}}{\pi \times (R)^2 \times 3.14 \times (2.75)^2} = 807$ LFT
STORAGE PROVIDED
 $144.1 + 175.3 \times 3 + 103.20 + 35.50 + 20.50 = 829$ LFT
 $829 > 807$ OK

EXISTING STORAGE REQUIREMENT:

$V_{ff} \text{ exist} = 1720$ cf
 $V_{bf} \text{ exist} = 7602$ cf
 $V_{100} \text{ exist} = 11375$ cf

(SEE EXIST SITE CALCULATION ON SHEET C-6)

TOTAL STORAGE REQUIREMENT:

$V_{ff} = 1720 + 1392 = 3112$ cf
 $V_{bf} = 7602 + 2141 = 9743$ cf
 $V_{100} = 11375 + 7775 = 19150$ cf

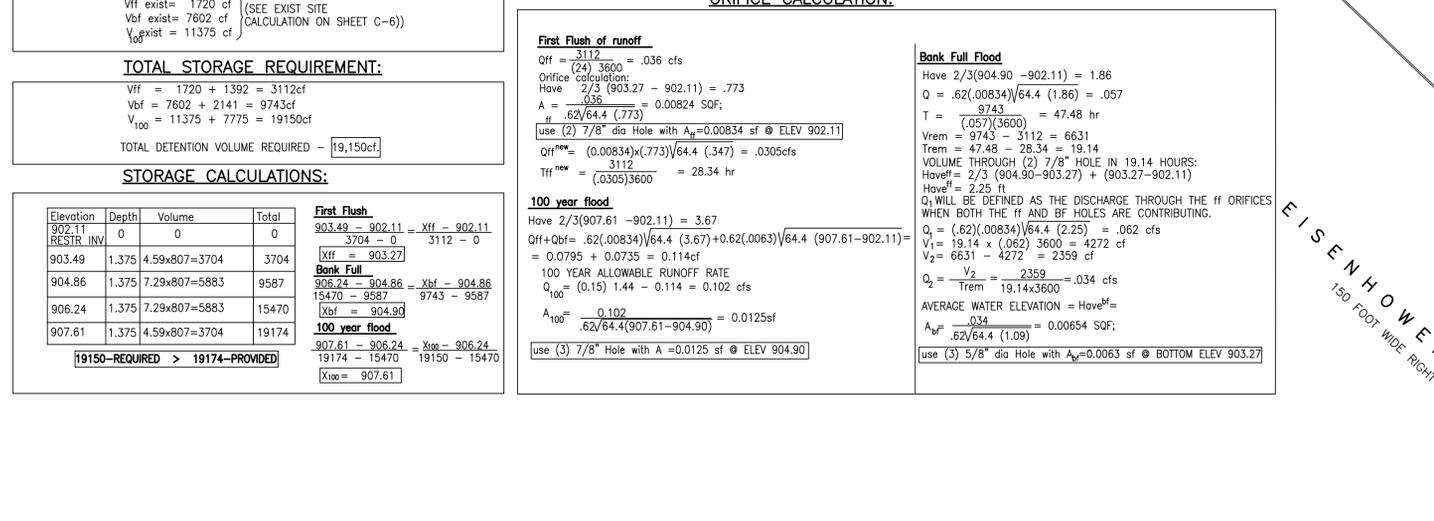
TOTAL DETENTION VOLUME REQUIRED = 19,150 cf

STORAGE CALCULATIONS:

Elevation	Depth	Volume	Total
902.11	0	0	0
903.49	1.375	4.59x807=3704	3704
904.86	1.375	7.29x807=5883	9587
906.24	1.375	7.29x807=5883	15470
907.61	1.375	4.59x807=3704	19174

19150-REQUIRED > 19174-PROVIDED

SITE DRAINAGE & UTILITY PLAN
SCALE 1"=30'



STORMWATER MANAGEMENT SYSTEM MAINTENANCE PLAN

1. RESPONSIBILITY FOR MAINTENANCE

- a. DURING CONSTRUCTION, IT IS THE DEVELOPER'S RESPONSIBILITY TO PERFORM THE MAINTENANCE.
- b. FOLLOWING CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF "OWNER" TO PERFORM THE MAINTENANCE.
- c. THE MASTER DEED WILL SPECIFY THAT ROUTINE MAINTENANCE OF THE STORMWATER FACILITIES MUST BE COMPLETED WITHIN 30 DAYS OF RECEIPT OF WRITTEN NOTIFICATION THAT ACTION IS REQUIRED, UNLESS OTHER ACCEPTABLE ARRANGEMENTS ARE MADE WITH THE WASHTENAW COUNTY COMMISSIONER OR SUCCESSORS. EMERGENCY MAINTENANCE (I.E. WHEN THERE IS ENDANGERMENT TO PUBLIC HEALTH, SAFETY OR WELFARE) SHALL BE PERFORMED IMMEDIATELY UPON RECEIPT OF WRITTEN NOTICE. SHOULD "OWNER" FAIL TO ACT WITHIN THESE TIME FRAMES,

THE COUNTY OR SUCCESSORS MAY PERFORM THE NEEDED MAINTENANCE AND ACCESS THE COSTS AGAINST "OWNER".

2. SOURCE OF FINANCING

"OWNER" IS REQUIRED TO PAY FOR ALL MAINTENANCE ACTIVITIES ON A CONTINUING BASIS.

3. MAINTENANCE TASKS AND SCHEDULE.

- a. SEE THE CHARTS THIS PAGE.
- b. IMMEDIATELY FOLLOWING CONSTRUCTION, THE DEVELOPER WILL HAVE THE STORMWATER MANAGEMENT SYSTEM INSPECTED BY AN ENGINEER TO VERIFY GRADES OF THE DETENTION AND FILTRATION AREAS AND MAKE RECOMMENDATIONS. FOR ANY NECESSARY SEDIMENT.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES LEGEND

1	STRIPPING & STOCKPILING TOPSOIL	TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVISION. STOCKPILE SHOULD BE TEMPORARILY SEEDED.
13	RIP-RAP	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.
14	AGGREGATE COVER	STABILIZES SOIL SURFACE THUS MINIMIZING EROSION. PERMITS CONSTRUCTION TRAFFIC IN ADVERSE WEATHER. MAY BE USED AS PART OF PERMANENT BASE CONSTRUCTION OF PAVED AREAS.
15	PAVING	PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED BUT INCREASES RUNOFF VOLUME AND VELOCITY. IRREGULAR SURFACE WILL HELP SLOW VELOCITY.
16	CURB & GUTTER	KEEPS HIGH VELOCITY RUNOFF ON PAVED AREA FROM LEAVING PAVED SURFACE. COLLECTS AND CONDUCTS RUNOFF TO ENCLOSED DRAINAGE SYSTEM OR PREPARED DRAINAGEWAY.
18	DIVERSION BERM	DIVERTS WATER FROM VULNERABLE AREAS. COLLECTS AND DIRECTS WATER TO PREPARED DRAINAGEWAYS. MAY BE PLACED AS PART OF NORMAL CONSTRUCTION OPERATION.
39	ROCK FILTER	CAN UTILIZE MATERIAL FOUND ON SITE. EASY TO CONSTRUCT. FILTERS SEDIMENT FROM RUNOFF.
54	SILT FENCE	FILTERS AND DETAINS RUNOFF.

PROPOSED CONSTRUCTION SCHEDULE

ACTIVITY	TIME
PRE-GRADING MEETING	1 DAY
INSTALL SOIL EROSION	2 DAY
DEMOLITION	3 DAY
ROUGH GRADE SITE	1 W
PLACE DETENTION	2 W
DIG FOUNDS FOR BUILD/DUMP	1 DAY
INSTALL STORM CEPTOR	2 DAY
PLACE BUILDING FOUNDATIONS	1 DAY
PLACE CANOPY FOUNDATIONS	1 DAY
PREP SITE	2 DAY
FORM & POUR CONCRETE	2 DAY
BLOCK DUMPSTER	5 DAY
TIE INTO & ABANDON UTILITIES	3 DAYS
FINAL GRADE	2 DAY
PLACE STONE FOR CONCRETE	2 DAY
PLACE CONCRETE & CAULK	3 DAY
INSTALL STEEL	2 W
BLOCK BUILDING	10 DAY
FRAMING BUILD	3 W
INSTALL PERIMETER FENCE S&W	2 DAY
INSTALL IRRIGATION	2 DAY
LANDSCAPE	2 DAY
INSTALL ROOF	3 DAY
SEED DISTURBED AREA	1 DAY
CLEAN SITE	1 DAY
REMOVE SILT FENCE (AFTER GROWTH OF 90%)	21 DAYS

82 CALENDAR DAYS

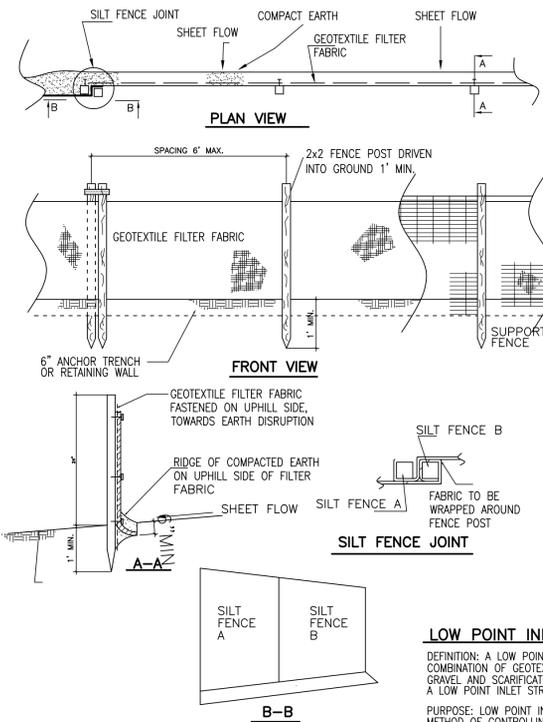
PERMANENT MAINTENANCE TASKS & SCHEDULE

COMPONENTS	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION	ANNUALLY
REMOVAL OF SEDIMENT ACCUMULATION	EVERY 2 YEARS AS NEEDED
INSPECT FOR FLOATABLES & DEBRIS	ANNUALLY
CLEANING OF FLOATABLES & DEBRIS	ANNUALLY
FOR EROSION	ANNUALLY
MOWING	0 TO 2 TIMES PER YEAR
INSPECT STORMWATER SYSTEM COMPONENTS DURING WET WEATHER & COMPARE TO AS-BUILT PLANS(BY PROFESSIONAL ENGINEER REPORTING TO "CIRCLE K")	ANNUALLY
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY ANNUAL INSPECTION	AS NEEDED
WET WEATHER	ANNUALLY
KEEP RECORDS OF ALL COSTS FOR INSPECTIONS, MAINTENANCE AND REPAIRS. REPORT TO "SHELL STATION"	ANNUALLY

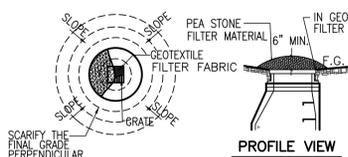
LOW POINT INLET FILTER

DEFINITION: A LOW POINT INLET FILTER IS A COMBINATION OF GEOTEXTILE FILTER FABRIC, PEA GRAVEL AND SCARIFICATION AROUND THE GRATE OF A LOW POINT INLET STRUCTURE.

PURPOSE: LOW POINT INLET FILTERS PROVIDE A METHOD OF CONTROLLING THE AMOUNT OF SEDIMENT WHERE APPLICABLE LOW POINT INLET FILTERS ARE USED AT ALL LOW POINT INLETS PRIOR TO THE STABILIZATION OF THE ADJACENT AREAS.



SILT FENCE DETAIL



LOW POINT INLET/DANDY BAG FILTER

MAINTENANCE TASKS & SCHEDULE DURING CONSTRUCTION

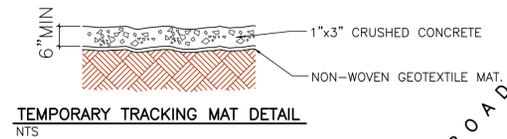
COMPONENTS	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION	WEEKLY
REMOVAL OF SEDIMENT ACCUMULATION	AS NEEDED & PRIOR TO TURNOVER
INSPECT FOR FLOATABLES & DEBRIS	QUARTERLY
CLEANING OF FLOATABLES & DEBRIS	QUARTERLY AND AT TURNOVER
INSPECTION FOR EROSION	WEEKLY
MOWING	0 TO 2 TIMES PER YEAR
INSPECT STORMWATER SYSTEM COMPONENTS DURING WET WEATHER & COMPARE TO AS-BUILT PLANS(BY PROFESSIONAL ENGINEER REPORTING TO "CIRCLE K")	ANNUALLY AND AT TURNOVER
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY ANNUAL WET WEATHER INSPECTION	AS NEEDED

EROSION COST ESTIMATE:
SILT FENCE: \$3,150
TRACKING MAT: \$700
TOTAL: \$3,850

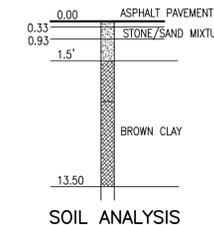
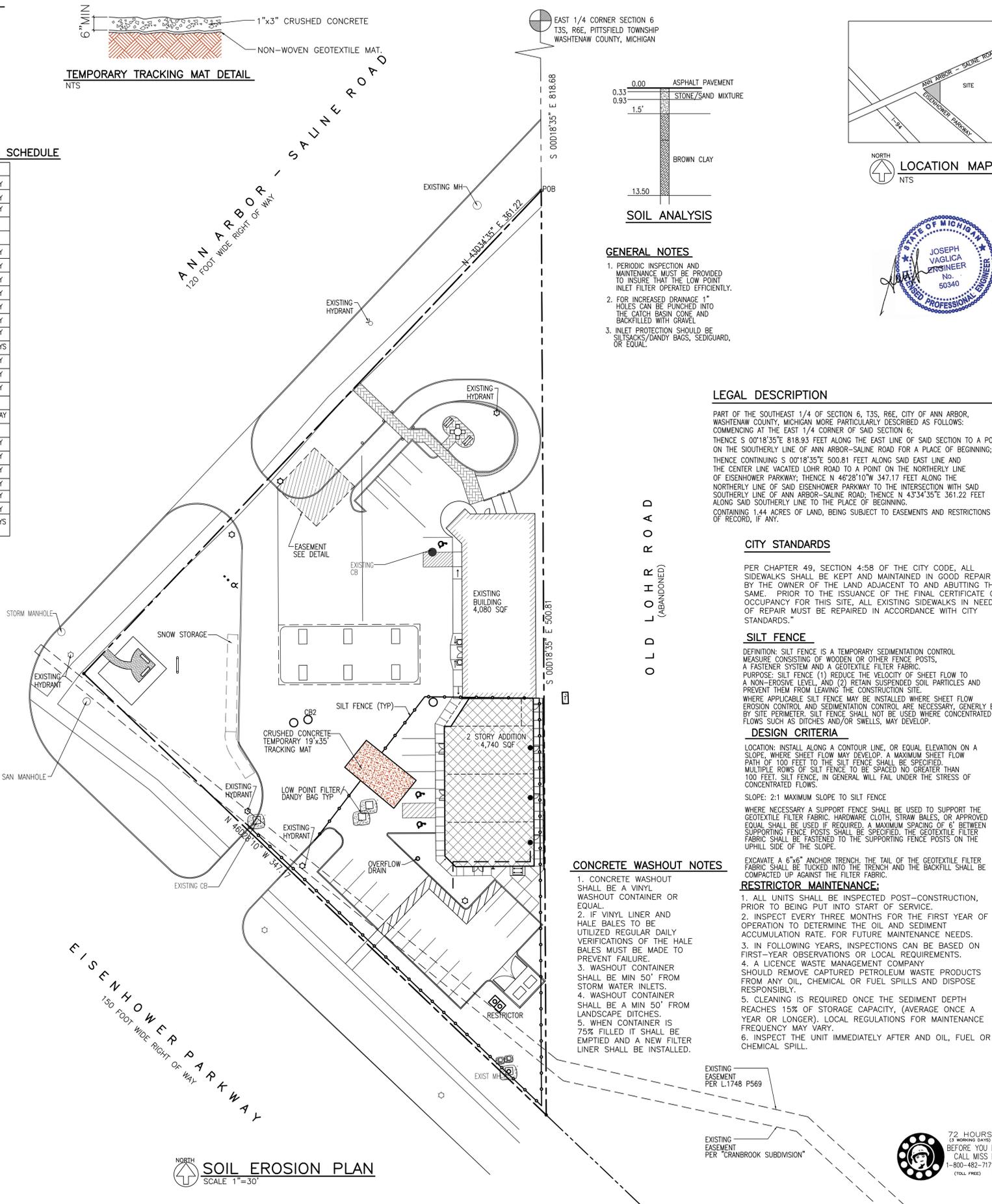
GRASS SEED: \$3 PER SOFT OF THE 1,850SQFT LANDSCAPING ISLAN.

EXCAVATION & FILL ESTIMATES FOR THE SITE:
EXCAVATION: 40 YDS
FILL: 55 YDS

*AS NEEDED MEANS WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH



TEMPORARY TRACKING MAT DETAIL



GENERAL NOTES

- 1. PERIODIC INSPECTION AND MAINTENANCE MUST BE PROVIDED TO INSURE THAT THE LOW POINT INLET FILTER OPERATED EFFICIENTLY.
- 2. FOR INCREASED DRAINAGE 1" HOLES CAN BE PUNCHED INTO THE CATCH BASIN CONE AND BACKFILLED WITH GRAVEL.
- 3. INLET PROTECTION SHOULD BE SILTSACKS/DANDY BAGS, SEDIGUARD, OR EQUAL.

LEGAL DESCRIPTION

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PER CHAPTER 49, SECTION 4:58 OF THE CITY CODE, ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE. ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS."

SILT FENCE

DEFINITION: SILT FENCE IS A TEMPORARY SEDIMENTATION CONTROL MEASURE CONSISTING OF WOODEN OR OTHER FENCE POSTS, A FASTENER SYSTEM AND A GEOTEXTILE FILTER FABRIC. PURPOSE: SILT FENCE (1) REDUCE THE VELOCITY OF SHEET FLOW TO A NON-EROSIVE LEVEL, AND (2) RETAIN SUSPENDED SOIL PARTICLES AND PREVENT THEM FROM LEAVING THE CONSTRUCTION SITE. WHERE APPLICABLE SILT FENCE MAY BE INSTALLED WHERE SHEET FLOW EROSION CONTROL AND SEDIMENTATION CONTROL ARE NECESSARY. GENERALLY BY SITE PERIMETER, SILT FENCE SHALL NOT BE USED WHERE CONCENTRATED FLOWS SUCH AS DITCHES AND/OR SWELLS, MAY DEVELOP.

DESIGN CRITERIA

LOCATION: INSTALL ALONG A CONTOUR LINE, OR EQUAL ELEVATION ON A SLOPE, WHERE SHEET FLOW MAY DEVELOP. A MAXIMUM SHEET FLOW PATH OF 100 FEET TO THE SILT FENCE SHALL BE SPECIFIED. MULTIPLE ROWS OF SILT FENCE TO BE SPACED NO GREATER THAN 100 FEET. SILT FENCE, IN GENERAL WILL FAIL UNDER THE STRESS OF CONCENTRATED FLOWS.

CONCRETE WASHOUT NOTES

- 1. CONCRETE WASHOUT SHALL BE A VINYL WASHOUT CONTAINER OR EQUAL.
- 2. IF VINYL LINER AND HALE BALES TO BE UTILIZED REGULAR DAILY VERIFICATIONS OF THE HALE BALES MUST BE MADE TO PREVENT FAILURE.
- 3. WASHOUT CONTAINER SHALL BE MIN 50' FROM STORM WATER INLETS.
- 4. WASHOUT CONTAINER SHALL BE A MIN 50' FROM LANDSCAPE DITCHES.
- 5. WHEN CONTAINER IS 75% FILLED IT SHALL BE EMPTIED AND A NEW FILTER LINER SHALL BE INSTALLED.

RESTRICTOR MAINTENANCE:

- 1. ALL UNITS SHALL BE INSPECTED POST-CONSTRUCTION, PRIOR TO BEING PUT INTO START OF SERVICE.
- 2. INSPECT EVERY THREE MONTHS FOR THE FIRST YEAR OF OPERATION TO DETERMINE THE OIL AND SEDIMENT ACCUMULATION RATE. FOR FUTURE MAINTENANCE NEEDS.
- 3. IN FOLLOWING YEARS, INSPECTIONS CAN BE BASED ON FIRST-YEAR OBSERVATIONS OR LOCAL REQUIREMENTS.
- 4. A LICENCE WASTE MANAGEMENT COMPANY SHOULD REMOVE CAPTURED PETROLEUM WASTE PRODUCTS FROM ANY OIL, CHEMICAL OR FUEL SPILLS AND DISPOSE RESPONSIBLY.
- 5. CLEANING IS REQUIRED ONCE THE SEDIMENT DEPTH REACHES 15% OF STORAGE CAPACITY, (AVERAGE ONCE A YEAR OR LONGER). LOCAL REGULATIONS FOR MAINTENANCE FREQUENCY MAY VARY.
- 6. INSPECT THE UNIT IMMEDIATELY AFTER AND OIL, FUEL OR CHEMICAL SPILL.



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ROBERT NOE ARCHITECTURE 9103 NUNTON #135 TECUMSEH MI 48856 (734)693-0852

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SHELL GAS STATION 2679 ANN ARBOR SALINE RD ANN ARBOR MI

ISSUE DATE

5/31/18	5/06/19
9/19/18	5/21/19
10/02/18	2/28/19
10/24/18	3/1/19
10/30/18	3/05/19
11/08/18	3/12/19
11/09/18	3/22/19
12/11/18	3/29/19
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DRAWN BY: K.C./V.L.
CHECKED BY: T.Q.
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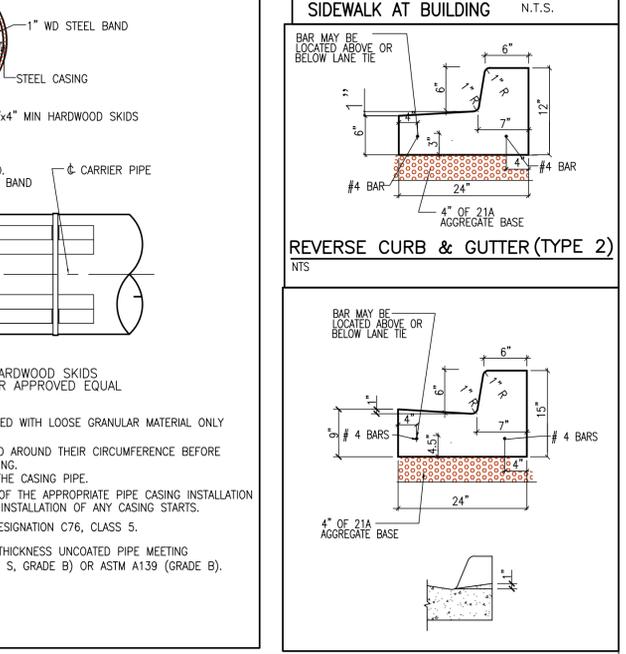
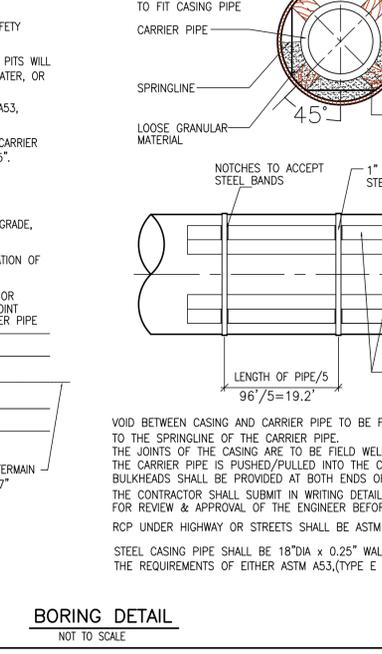
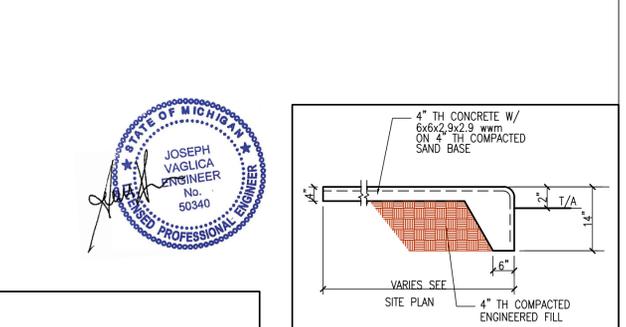
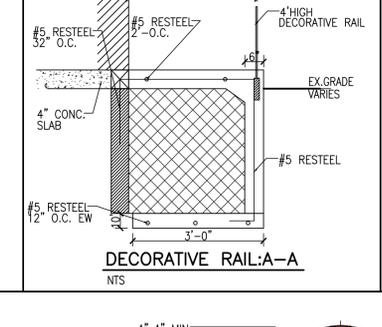
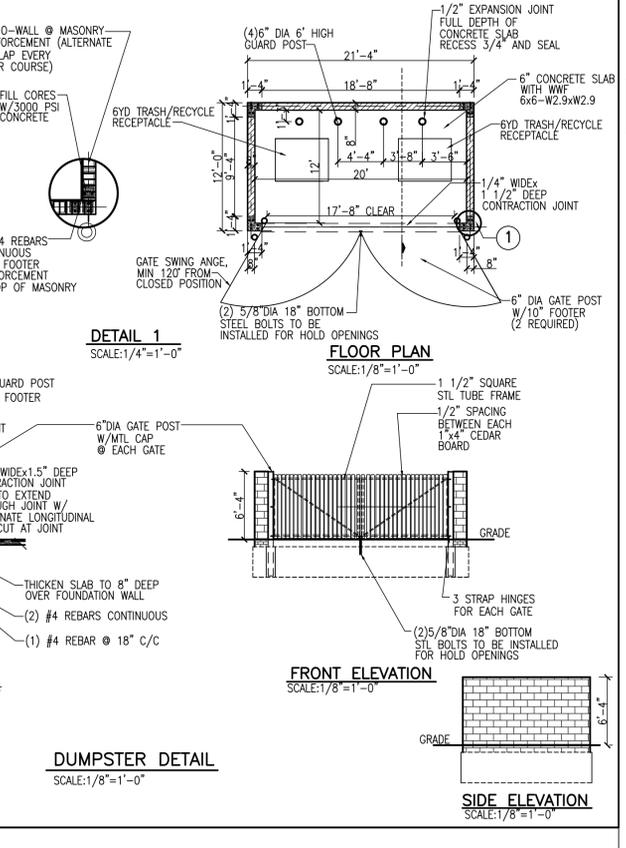
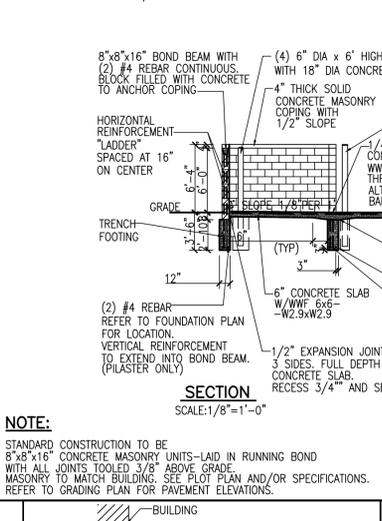
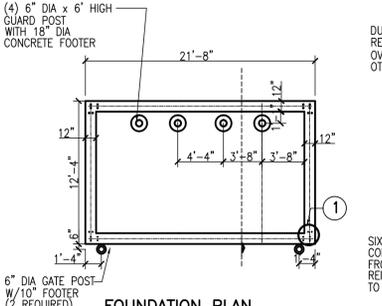
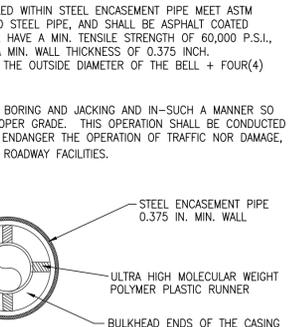
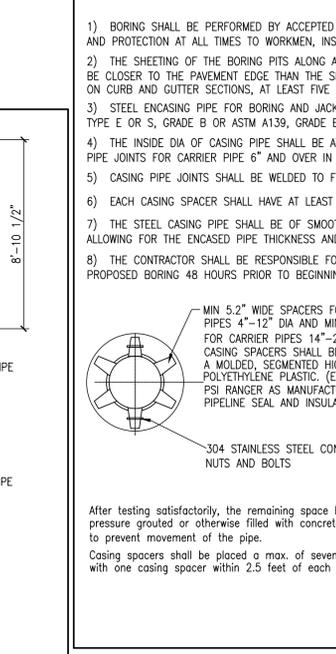
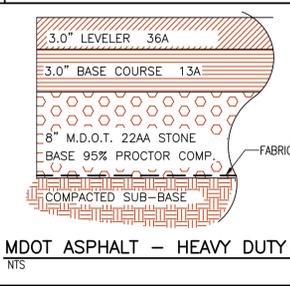
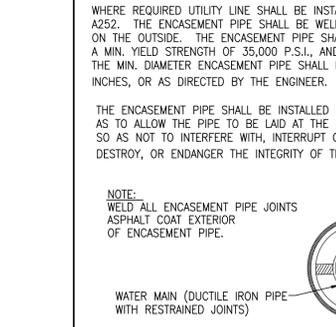
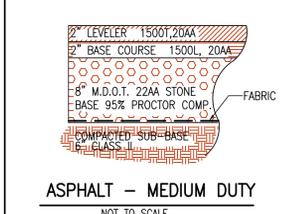
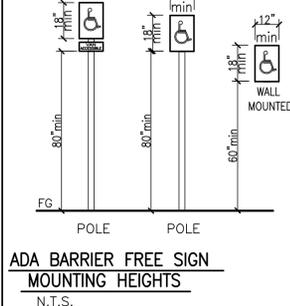
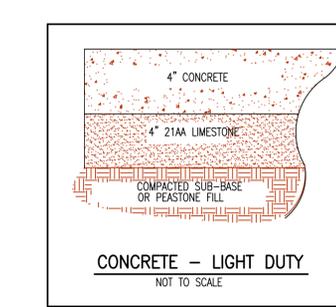
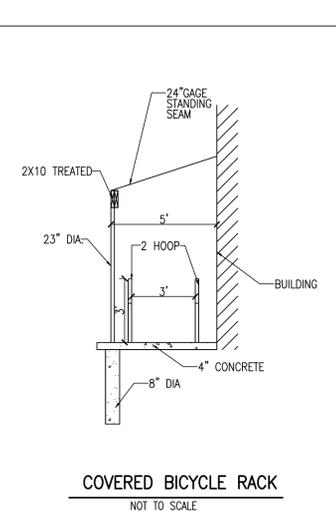
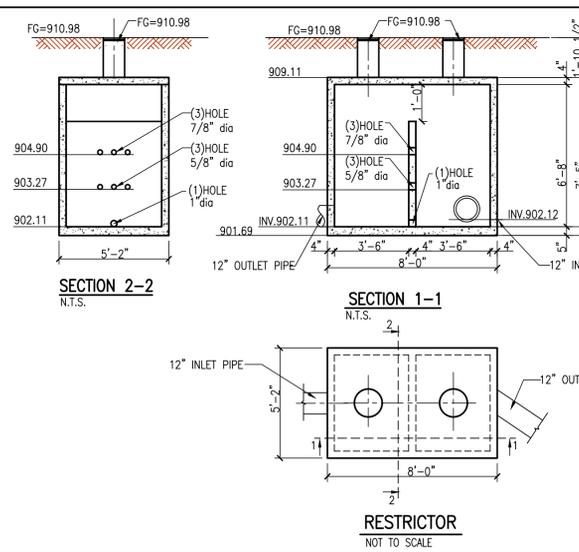
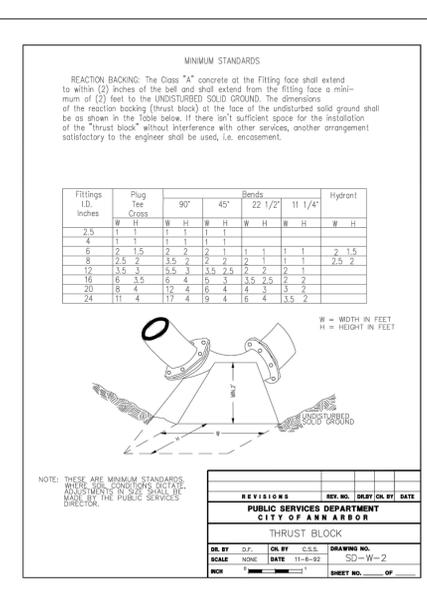
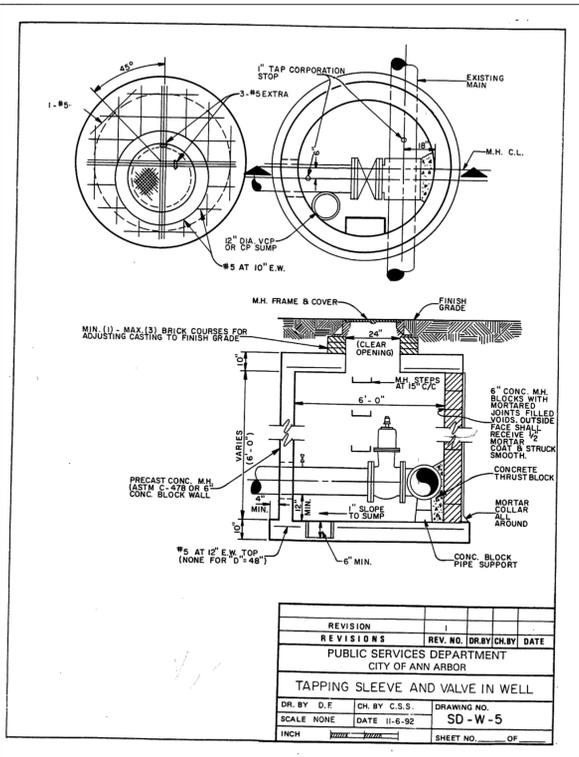
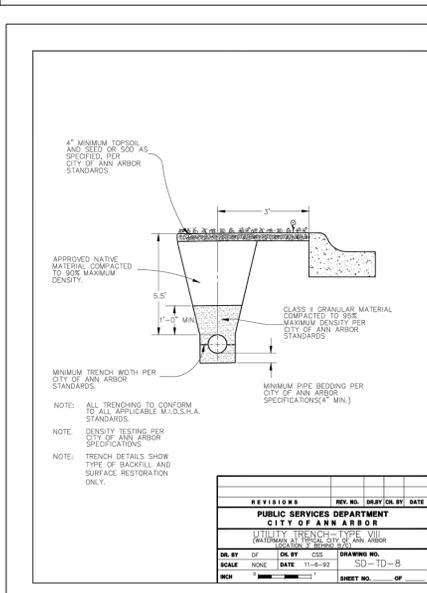
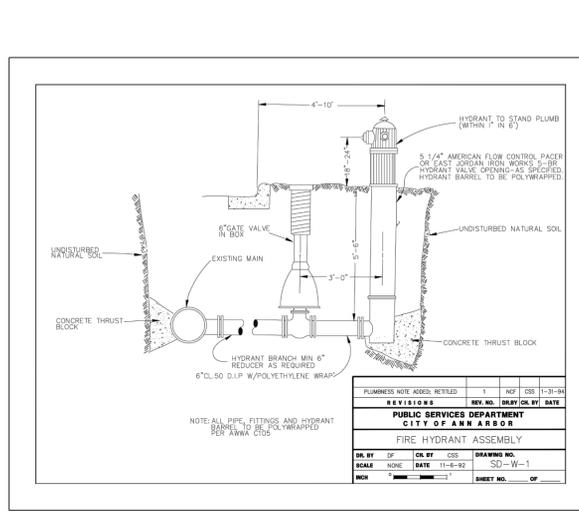
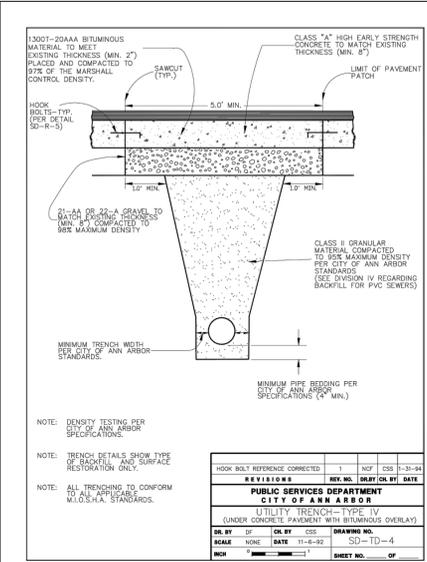
ARCHITECTURAL SEAL:

PROJECT NO.: 2686
SHEET TITLE: SOIL EROSION PLAN
SHEET NO.: C5



SOIL EROSION PLAN SCALE 1"=30'

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SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI

JOSEPH VAGLICA
REGISTERED PROFESSIONAL ENGINEER
No. 60340

ISSUE DATE
09/28/18
10/01/18
10/23/18
10/30/18
1/8/19
02/08/19
03/25/19
04/25/19
05/29/19
07/08/19
07/19/19

DRAWN BY: K.C./V.L.VR
CHECKED BY: T.Q.
APPROVED BY: T.Q.

PROJECT NO.: **2886**
SHEET TITLE: **SITE DETAILS**
SHEET NO.: **C7**

LUMINAIRE SCHEDULE

SYMBOL	QUANTITY	LABEL	ARRANGEMENT	LUMENS	LLF	ARR.WATTS	TOTAL WATTS	MANUFACTURER	DESCRIPTION
	5	A3-EXISTING LIGHT POST WITHIN PROPERTY	SINGLE	10680	1.050	102	102	CREE,INC.	BXSPA03PA-UX
	3	A4-EXISTING LIGHT POST OUTSIDE OF PROPERTY	SINGLE						
	12	C-EXISTING	SINGLE	21,900	1.050	164	164	LSI, INDUSTRIES	CRUS SC LED SS CW
	4	W3-PROPOSED	SINGLE	2673	1.040	25.28	50.56	CREE,INC.	XSPA03MG-UZ
	7	B-PROPOSED	SINGLE	5200		6	6	ALCON LIGHTING	LED

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1/9/19	4/19/19
1/25/19	4/24/19
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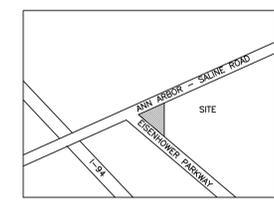
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CHECKED BY: T.Q.
APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.: 2686

SHEET TITLE: PHOTOMETRIC PLAN

SHEET NO.: C8

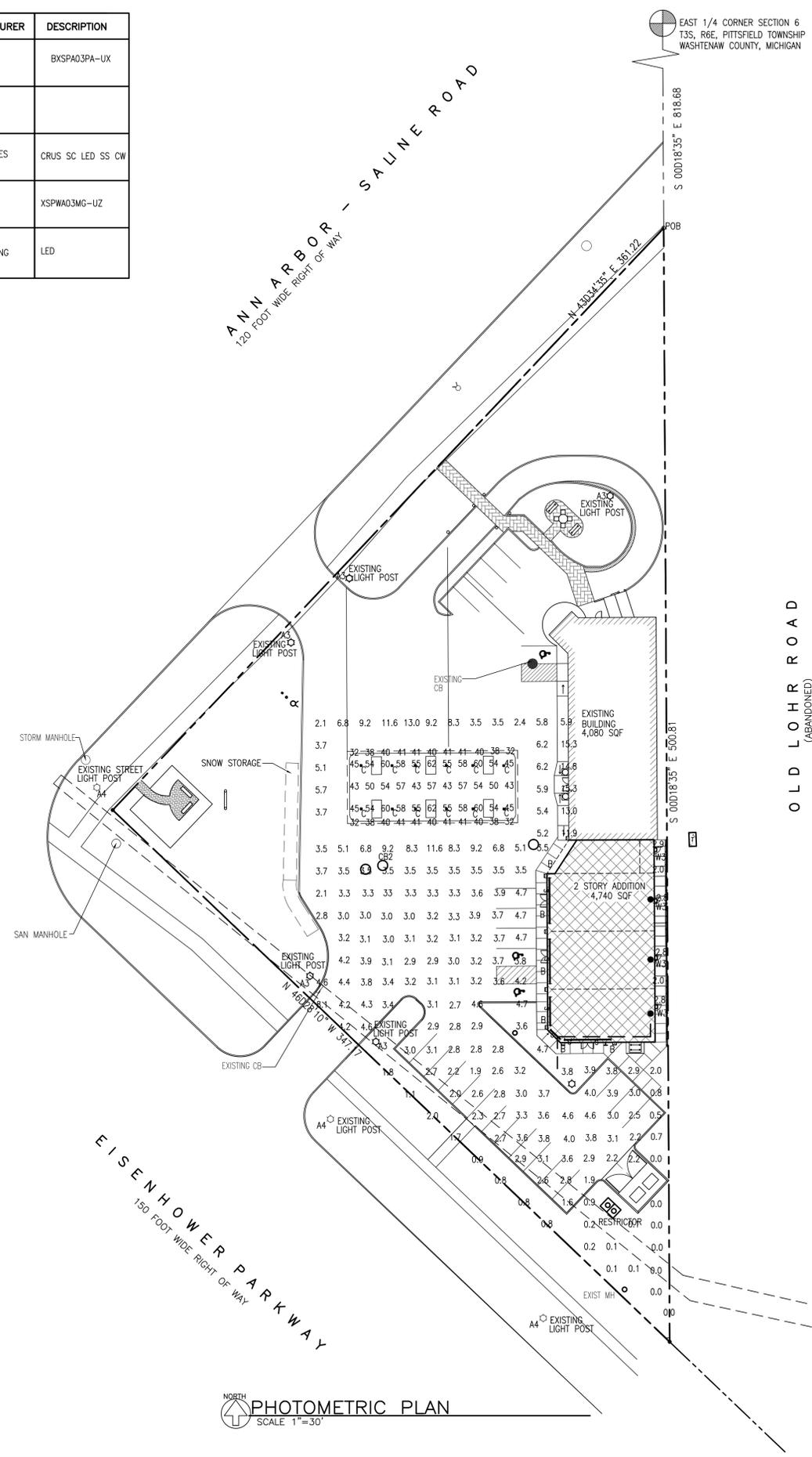


NORTH
LOCATION MAP
NTS



LEGEND

- PAVED AREA
- NEW ASPHALT
- PROPOSED BUILDING
- GRASS
- PROPOSED SIDEWALK
- LIGHT POST
- PROPOSED STORM
- PROPOSED WATER
- PROPOSED GAS
- PROPOSED SANITARY
- EXISTING SANITARY
- EXISTING WATER
- EXISTING OH WIRES
- EXISTING GAS
- EXISTING STORM
- EXISTING GRADE
- TOP OF ASPHALT T/A
- TOP OF CURB T/C
- TOP OF GUTTER T/G
- TOP OF WALK T/W
- HYDRANT
- EXISTING PUMP
- PROPOSED GLASS WINDOWS



PHOTOMETRIC PLAN
SCALE 1"=30'

EXISTING LIGHTING



CANOPY LIGHTING



POLE LIGHTING



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GENERAL NOTES

SPECIAL CONDITIONS

THE OWNER, GENERAL CONTRACTOR, THE INDIVIDUAL SUBCONTRACTOR AND MATERIAL MAN AGREE TO WAIVE THE ARCHITECT HARMLESS, AS A RESULT OF ANY INJURY OR DAMAGE THAT MAY OCCUR TO ANY INDIVIDUAL OR PROPERTY DURING CONSTRUCTION AS A RESULT OF ACTS OR OMISSIONS BY SAID OWNER, CONTRACTORS AND/OR MATERIAL MEN DURING THE PERFORMANCE OF THEIR WORK.

ALL WORK WILL PROCEED IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL SAFETY CODES, STATUTES AND RECOGNIZED STANDARDS.

THE GENERAL CONTRACTOR SHALL OBTAIN THE GENERAL BUILDING PERMIT(S), PAY ALL FEES AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK.

NO MATERIALS OR CONSTRUCTION PROCEDURES SHALL BE UTILIZED ON THIS PROJECT WHICH ARE PROHIBITED BY LAW OR SHALL CAUSE A HARMFUL EFFECT ON THE ENVIRONMENT OR TO ANY PERSON ON THE SITE DURING CONSTRUCTION OR LATER OCCUPANCY.

INSURANCE

EACH CONTRACTOR SHALL BE RESPONSIBLE FOR THE LIABILITY AND COMPREHENSIVE INSURANCE AND FOR WORK DAMAGED BY IMPROPER WORKMANSHIP. THE OWNER SHALL PURCHASE AND MAINTAIN THE OWNER'S USUAL COVERAGE INSURANCE ON THE WORK WHICH INSURES TO THE OWNER'S BENEFIT. OPTIONALLY THE OWNER MAY PURCHASE AND MAINTAIN OTHER INSURANCE FOR SELF-PROTECTION AGAINST CLAIMS WHICH MAY ARISE FROM OPERATIONS DURING CONSTRUCTION.

FIELD CONDITIONS

THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING ALL EXISTING CONDITIONS AND FOR FITTING THEIR WORK TO NEW AND EXISTING WORK. NOTICE MUST BE IMMEDIATELY GIVEN TO THE ARCHITECT WHERE THERE ARE INCONSISTENT OR CONFLICTING DIMENSIONS ON THE DRAWINGS AND FOR WHERE THERE IS A CONFLICT IN THE WORK OF THE INDIVIDUAL TRADES AND/OR CONDITIONS FOUND IN THE FIELD. EACH CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR HIS WORK WHERE HE FAILS TO CHECK SUCH CONDITIONS AND/OR GIVE NOTICE TO THE ARCHITECT OF DISCREPANCIES THEREIN.

IN GENERAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ONLY THOSE TREES WITHIN THE BUILDING AREA SHALL BE REMOVED. ALL OTHERS WILL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PERIOD.

NOTE:

- PLANTS SHALL BE NURSERY GROWN, FREE OF DISEASE AND SIZES CONFORM TO AMERICAN NURSERYMAN STANDARDS.
- THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING IN GOOD CONDITION TO PRESENT A HEALTHY, NEAT, AND ORDERLY APPEARANCE THIS SHOULD BE ACCOMPLISHED BY THE FOLLOWING STANDARDS:
 - ALL PLANT GROWTH IN LANDSCAPE AREAS SHALL BE CONTROLLED BY PRUNING, TRIMMING, OR OTHER SUITABLE METHODS SO THAT PLANT MATERIALS DO NOT INTERFERE WITH PUBLIC UTILITIES, RESTRICT PEDESTRIAN OR VEHICULAR ACCESS, OR OTHERWISE CONSTITUTE A TRAFFIC HAZARD.
 - ALL PLANTED AREAS SHALL BE MAINTAINED IN A RELATIVELY WEED-FREE CONDITION, CLEAR OF UNDESIRABLE UNDERGROWTH
 - REPLACEMENT PLANTS SHALL CONFORM TO THE STANDARDS THAT GOVERN ORIGINAL INSTALLATION.
- UNDERGROUND IRRIGATION SYSTEM TO BE INSTALLED ADEQUATE TO MAINTAIN LANDSCAPE AREAS
- ALL APPLICATIONS OF FERTILIZER BEYOND INITIAL TOPSOIL AND SEEDING SHALL BE FERTILIZED WITH NO PHOSPHORUS.
- ALL DISEASED, DAMAGED, OR DEAD MATERIAL SHOWN ON THE SITE PLAN SHALL OF THIS SECTION PER CHAPTER, ARTICLE V 5.29.6.L.
- ALL REMOVED INVASIVE SPECIES (TREE OF HEAVEN) TO BE CUT AND TREATED.
- ALL DEAD TREES TO BE REPLACED TO MATCH EXISTING
- EXISTING IRRIGATION SYSTEM TO BE MODIFIED IN ORDER TO SERVICE NEW LANDSCAPE AREAS.

LANDSCAPE NOTES: CHAPTER 55 SECTION 5:20:

- SPECIFICATION FOR TREATMENT OF COMPACTED SOIL ON THE ENTIRE SITE.
 - USE OF A AERATOR OVER COMPACTED SOIL AREAS SHALL BE UTILIZED TO LOOSEN SOIL FOR NEW GRASS & VEGETATION.
- SPECIFICATIONS FOR PLANTING MEDIA LANDSCAPED AREAS.
 - ADDITIONAL SOIL SHALL BE FILTERED TOPSOIL.
 - MULCH SHALL BE HARDWOOD, NON DYED FREE OF DEBRIS.
 - IDENTIFICATION OF SNOW STORAGE AREAS INCLUDING A STATEMENT THAT SNOW SHALL NOT BE PUSHED ONTO LANDSCAPE ISLANDS. (UNLESS DESIGNED FOR SNOW STORAGE).

GROWING MEDIUM:

AS MUCH AS POSSIBLE EXISTING SOIL SHALL BE STOCKPILED AND REUSED FOR THE GROWING MEDIUM. (FROM EX. LANDSCAPE AREAS ONLY) IF SITE NEEDS ADDITIONAL SOIL FILTERED TOP SOIL/SAND/SMALL STONE MIXTURE SHALL BE USED. NEW SOIL IF REQUIRED SHALL BE MIXED WITH EXISTING SOIL

LEGAL DESCRIPTION

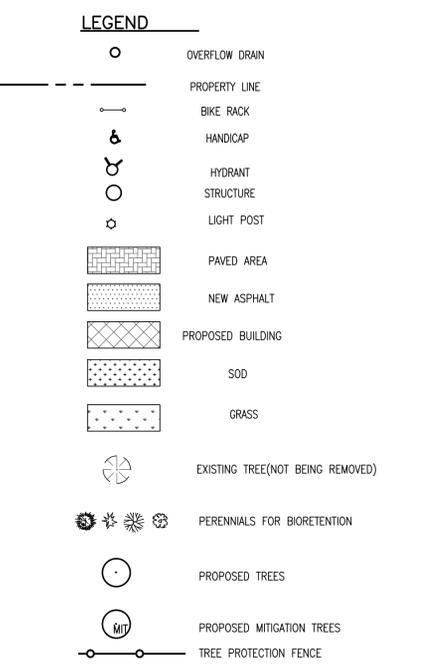
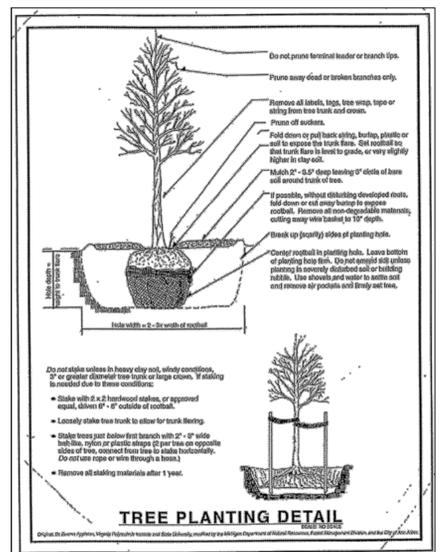
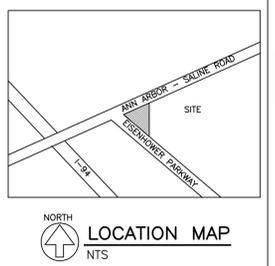
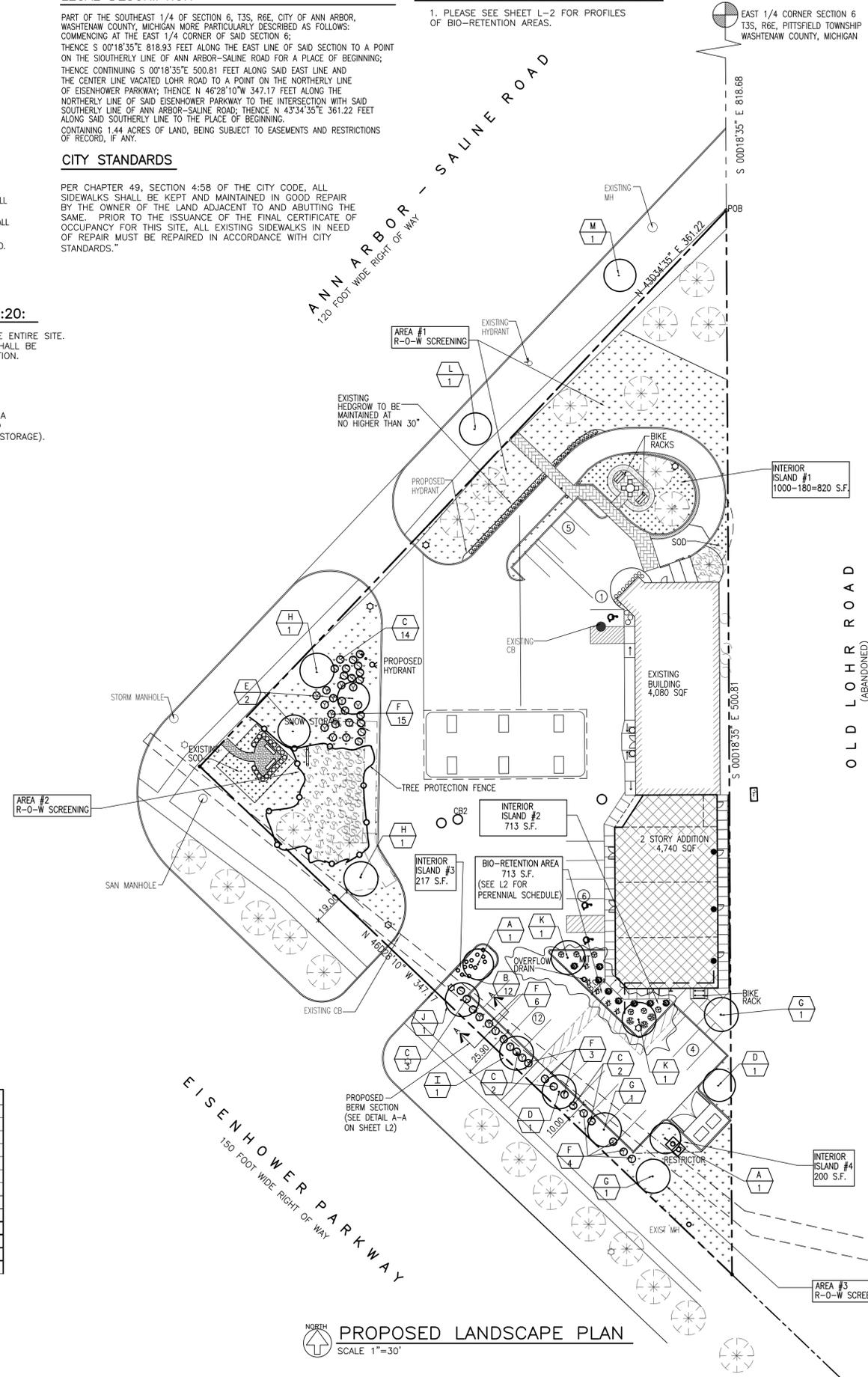
PART OF THE SOUTHEAST 1/4 OF SECTION 6, T35, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE EAST 1/4 CORNER OF SAID SECTION 6; THENCE S 00°18'35"E 818.93 FEET ALONG THE EAST LINE OF SAID SECTION TO A POINT ON THE SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD FOR A PLACE OF BEGINNING; THENCE CONTINUING S 00°18'35"E 500.81 FEET ALONG SAID EAST LINE AND THE CENTER LINE VACATED LOHR ROAD TO A POINT ON THE NORTHERLY LINE OF EISENHOWER PARKWAY; THENCE N 46°28'10"W 347.17 FEET ALONG THE NORTHERLY LINE OF SAID EISENHOWER PARKWAY TO THE INTERSECTION WITH SAID SOUTHERLY LINE OF ANN ARBOR-SALINE ROAD; THENCE N 43°34'35"E 361.22 FEET ALONG SAID SOUTHERLY LINE TO THE PLACE OF BEGINNING. CONTAINING 1.44 ACRES OF LAND, BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

CITY STANDARDS

PER CHAPTER 49, SECTION 4:58 OF THE CITY CODE, ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME. PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS."

BIO-RETENTION LANDSCAPE ISLANDS

- PLEASE SEE SHEET L-2 FOR PROFILES OF BIO-RETENTION AREAS.



LANDSCAPE REQUIREMENTS (REFERENCE CHART BELOW)

LANDSCAPING & SCREENING REQUIREMENTS	REQUIRED	EXISTING	PROPOSED
ROW SCREENING (ROW)			
SIZE OF ROW BUFFER STRIP (MIN 10 FEET)	10' MIN	10' MIN	10' MIN
SCREENING CALCULATION BREAK-DOWN			
NUMBER OF ROW SCREENING TREES (1 TREE FOR EVERY 30' OR FRACTION THEREOF OF PUBLIC ROW STREET FRONTAGE OF THE VEHICULAR USE ARE)	AREA #1: 110LF/30 = 4 TREES AREA #2: 160LF/30 = 6 TREES AREA #3: 150LF/30 = 5 TREES TOTAL = 15 TREES	4 TREES 7 TREES 6 TREES TOTAL= 17 TREES	0 TREES 5 TREES 6 TREES TOTAL= 11 TREES
HEDGE, SHRUBS, BERM AND/OR WALL PROVIDED IN ROW BUFFER STRIP	SHRUBS	SHRUBS	BERM
IF SHRUBS USED, NUMBER OF SHRUBS PROVIDED (1 SHRUB FOR EVERY 4 LINEAR FEET)	71	96	88
VEHICULAR USE AREA (VUA)			
VUA SIZE (SQF)		27,544 SQF	28,105 SQF
SQUARE FEET OF INTERIOR LANDSCAPE ISLANDS REQUIRED	28,105/20 = 1,405 SQF	1,378 SQF	820+200+217+713 = 1,950 SQF
SQUARE FEET OF DEPRESSED BIORETENTION INTERIOR LANDSCAPE ISLANDS (AT LEAST 50% OF THE AREA IN THE INTERIOR LANDSCAPE AREA MUST BE DEPRESSED IF IS AREA EXCEEDS 750 S.F.)	1405/2 = 702.5 SQF	NONE	713 SQF
NUMBER OF INTERIOR LANDSCAPE ISLANDS TREES	1,405/250 = 5.62	6 TREES	6 TREES
STREET TREE REQUIREMENT	1 DECIDUOUS FOR EVERY 45 LF. (12' FROM THE EDGE OF CURB) 708.39 LF/45 = 15 TREES	13 TREES	15 TREES

PROPOSED SCHEDULE OF PLANTS

ITEM	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
A	2	BLACK GUM	NYSSA SYLVATICA	2.5" CAL.	B&B	PROPOSED DECIDUOUS: INTERIOR ISLAND #3 & #4
B	12	RED SPRITE HOLLY	ILEX VERTICILLATA 'NANA'	2.5" HT	POT	PROPOSED DECIDUOUS SHRUB: INTERIOR LANDSCAPE #3
C	21	SPIREA	SPIRAEA PRUMIFOLIA	2.5" HT	POT	PROPOSED DECIDUOUS SHRUB: R-O-W SCREEN
D	2	SUGAR MAPLE	ACER SACCHARUM	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: R-O-W SCREEN
E	2	SWEET GUM	LIQUIDAMBAR STYRACIFLUA	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: R-O-W SCREEN
F	28	YEW	TAXACEAE DENSISORMIS	2.5" HT	POT	PROPOSED EVERGREEN SHRUB: BUFFER STRIP
G	2	BLACK GUM (SOURGUM)	NYSSA SYLVATICA	2.5" CAL.	B&B	PROPOSED EVERGREEN TREE: R-O-W SCREEN
H	2	LINDEN	TILIA GENUS	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: R-O-W SCREEN
I	1	CRAB APPLE	MALUS	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: R-O-W SCREEN
J	1	EASTERN WHITE PINE	PINUS STROBUS	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: R-O-W SCREEN
K	2	BLACK GUM (SOURGUM)	NYSSA SYLVATICA	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: VEHICULAR USE AREA TREE
L	1	NORTHERN RED OAK	QUERCUS RUBRA	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: STREET TREE
M	1	EASTERN REDBUD	CERCIS CANADENSIS	2.5" CAL.	B&B	PROPOSED DECIDUOUS TREE: STREET TREE

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DRAWN BY: K.C./V.L.
CHECKED BY: T.Q.
APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.: **2686**

SHEET TITLE: **PROPOSED LANDSCAPE PLAN**

SHEET NO.: **L1**

72 HOURS (3 WORKING DAYS) BEFORE YOU DIG CALL MISS DIG 1-800-462-7171 (TOLL FREE)

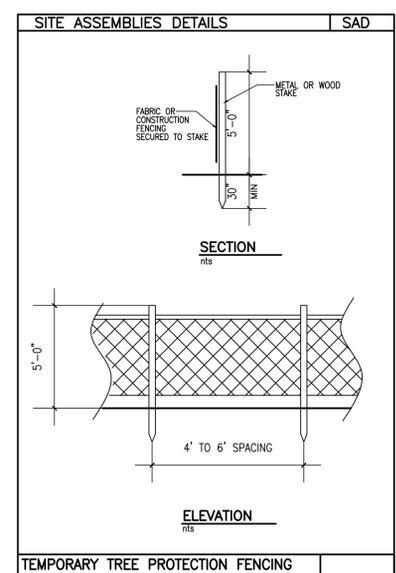
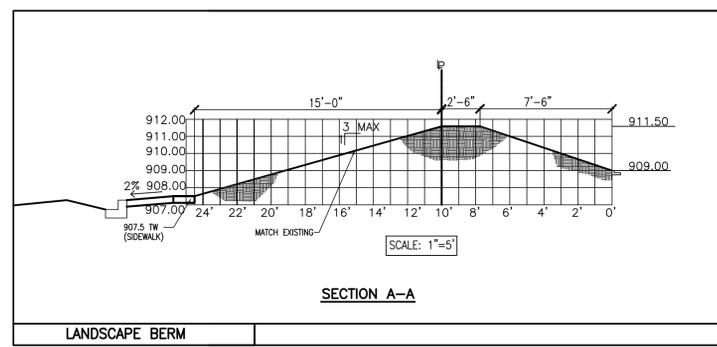


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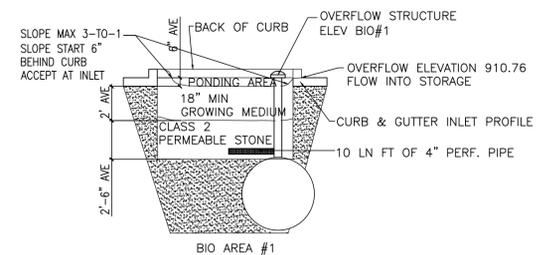
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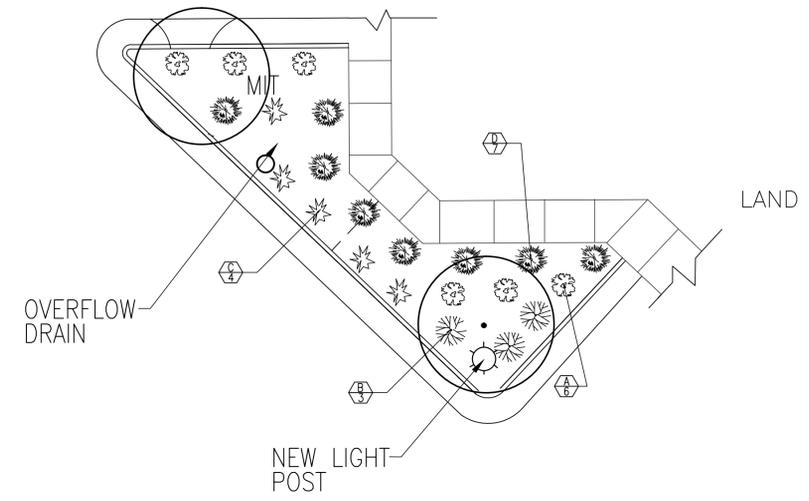
SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI



TREE PROTECTION NOTES:
1. TREE PROTECTION FENCE SHALL BE PLACED AT THE EDGE OF THE CRITICAL ROOT ZONE OF ALL PROTECTED TREES ON SIDE OF WORK TO BE DONE & 6'-0" TALL EXCEPT WHERE UNAVAILABLE WITH EXISTING SIDEWALKS AND WALLS.



BIORETENTION PROFILES AA
SCALE: 1" = 10'-0"



SCHEDULE OF PERENNIALS BIO-RETENTION

ITEM	QTY	COMMON NAME	BOTANICAL NAME	SYM	SIZE	HT FT	ROOT	REMARKS
A	6	BLACK EYED SUSAN	RUDBECKIA HIRTA		1 GAL	1-3	POT	D,W,ST.
B	3	FALSE DRAGON HEAD	PHYSOSTEGIA VIRGINIANA		1 GAL	1-5	POT	M,W,ST.
C	4	HOARY VERVAIN	VERBENA STRICTA		1 GAL	3-3.5	POT	D,M,ST,DR
D	7	GOLDEN ALEXANDERS	ZIZIA AUREA		1 GAL	1-3	POT	M,W,DR,ST

D=DRY, M = MOIST, W= WET
ST= SALT TOLERANT
DR= DROUT TOLERANT

RAIN GARDEN MAINTENANCE:

- PROPERLY DESIGNED AND INSTALLED RAIN GARDEN SYSTEMS REQUIRE REGULAR MAINTENANCE.
- A. WHILE VEGETATION IS BEING ESTABLISHED, HAND WEEDING OR OTHER WEED CONTROL METHODS WILL BE REQUIRED. THEREAFTER, TWICE ANNUAL WEEDING IS TYPICAL. INVASIVE PLANTS SHOULD BE CONTROLLED EARLY IN THEIR ESTABLISHMENT BEFORE THEY SPREAD.
- B. FALL AND SPRING CLEANUP MUST BE PERFORMED INCLUDING CUTTING DOWN DEAD PERENNIALS, REMOVAL OF WEEDS AND REMOVAL OR MULCHING OF LEAVES AND STEMS.
- C. MULCH MUST BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLISHED ANNUALLY. ONCE EVERY 2 TO 3 YEARS THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT.
- D. RAIN GARDEN SYSTEMS MUST BE INSPECTED AT LEAST TWO TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC. SEDIMENT MUST BE REMOVED FROM FOREBAY AND RIPRAP/STONE PROTECTED AREAS AT LEAST TWICE PER YEAR. SEDIMENT SHOULD BE REMOVED BEFORE ITS ACCUMULATION NEGATIVELY IMPACTS THE PERFORMANCE OF THE PRETREATMENT DEVICE.
- E. DURING PERIODS OF EXTREME DROUGHT, RAIN GARDEN SYSTEMS MAY REQUIRE WATERING.
- F. RAIN GARDEN SYSTEMS CAN BE MOWED TWICE PER YEAR.
- G. TREES AND SHRUBS MUST BE INSPECTED TWICE PER YEAR TO EVALUATE HEALTH.
- H. INVASIVE SPECIES MUST BE REMOVED ON AN ANNUAL BASIS AND DISPOSED OF IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. INVASIVE SPECIES CAN BE TREATED CHEMICALLY BY A CERTIFIED APPLICATOR.

ISSUE DATE
04/24/19
05/03/19
05/06/19
05/21/19
REV 11-07/18/19

DRAWN BY: K.C./V.L.
CHECKED BY: T.Q.
APPROVED BY: T.Q.

ARCHITECTURAL SEAL:

PROJECT NO.:
2686

SHEET TITLE:
BIO-RETENTION AREAS

SHEET NO.:
L2

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SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI

ISSUE DATE

11-13-18
4-8-19
7-03-19
7-15-19
7-19-19

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PROJECT NO.:

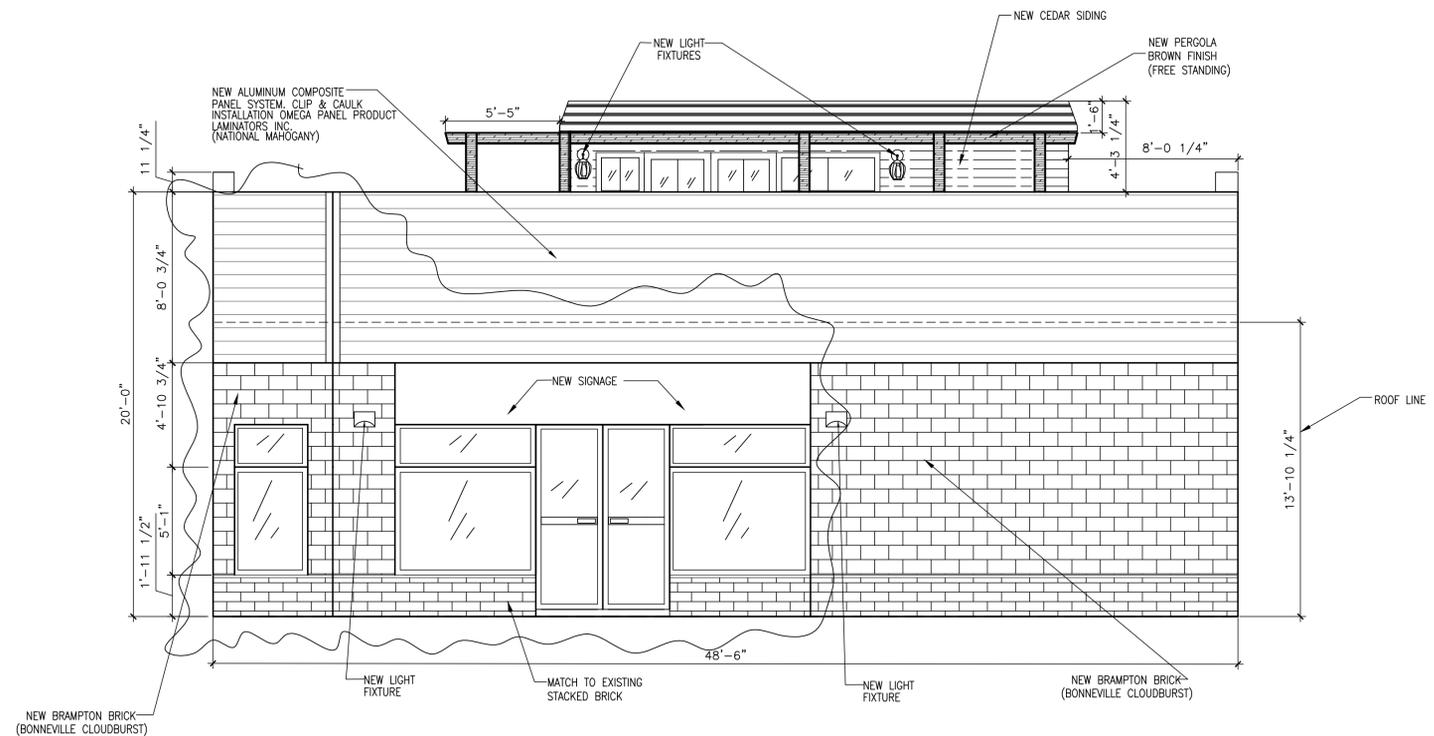
2686

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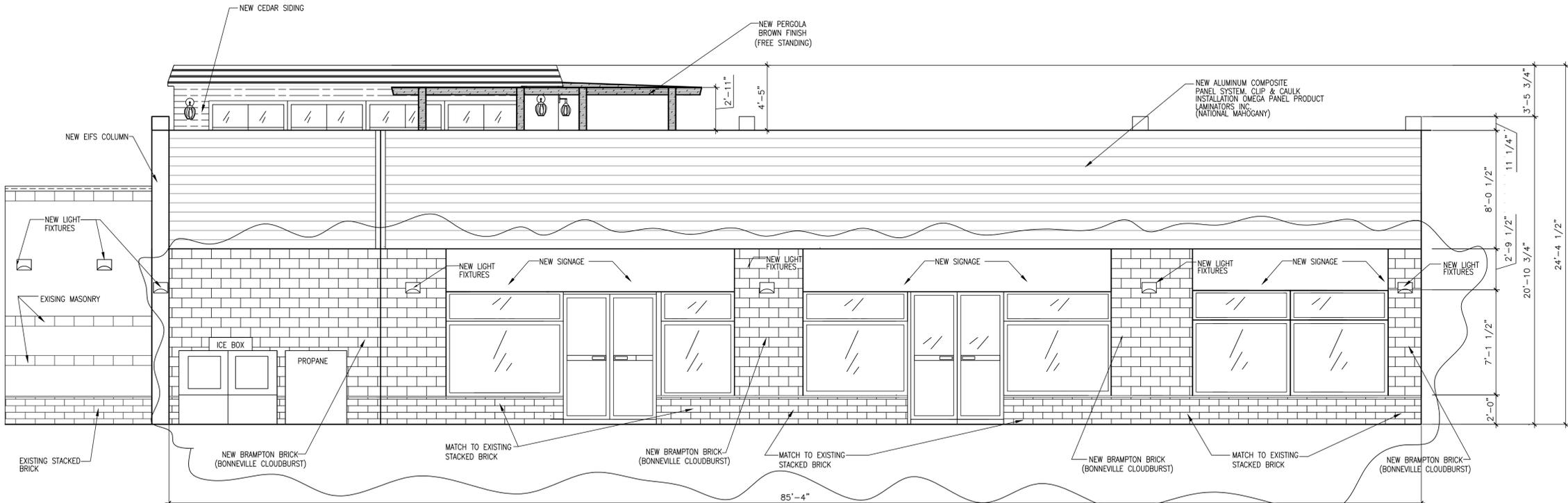
EXTERIOR ELEVATIONS

SHEET NO.:

A3



NORTH
EXTERIOR ELEVATION
SCALE 1/4"=1'



WEST
EXTERIOR ELEVATION
SCALE 1/4"=1'

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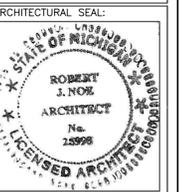
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SHELL GAS STATION
2679 ANN ARBOR SALINE RD
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ISSUE DATE

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7-03-19
7-19-19

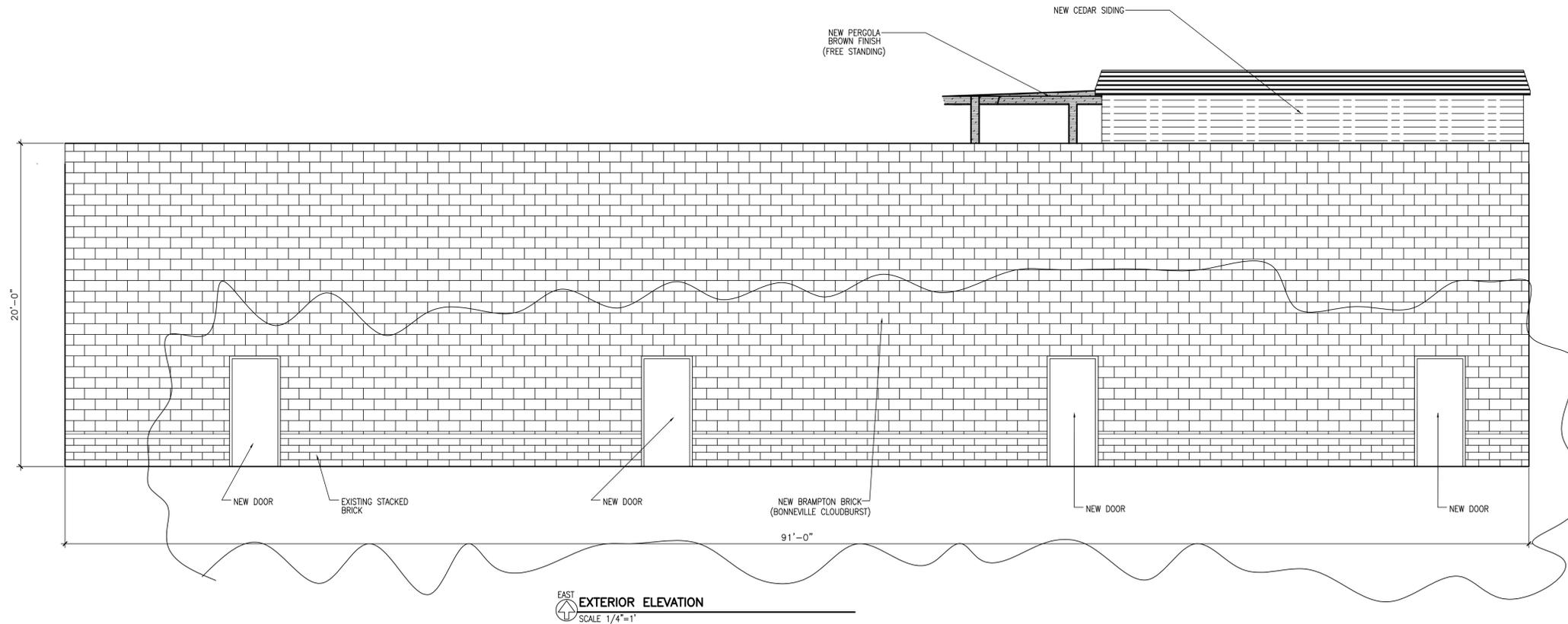
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PROJECT NO.:
2686

SHEET TITLE:
EXTERIOR ELEVATION

SHEET NO.:
A4



EAST EXTERIOR ELEVATION
SCALE 1/4"=1"

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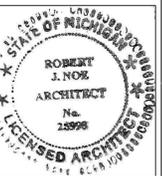
SHELL GAS STATION
2679 ANN ARBOR SALINE RD
ANN ARBOR MI

ISSUE DATE

05/22/18 - PRELIMINARY
04/08/19

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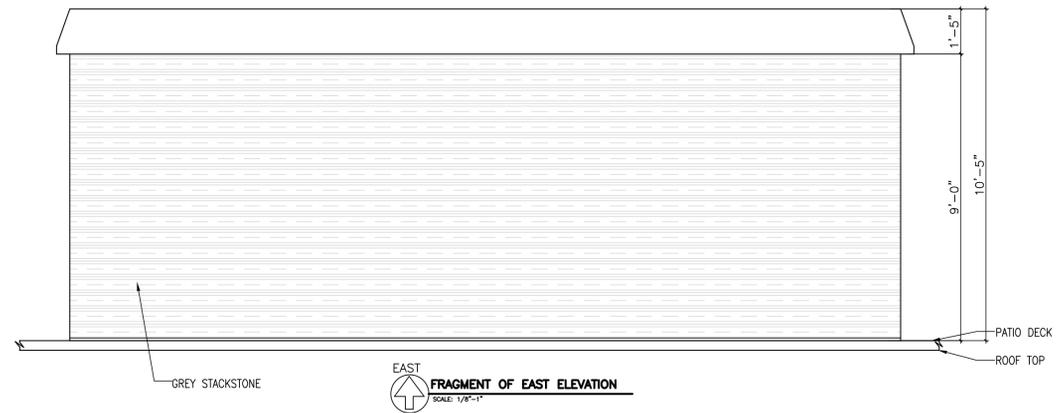
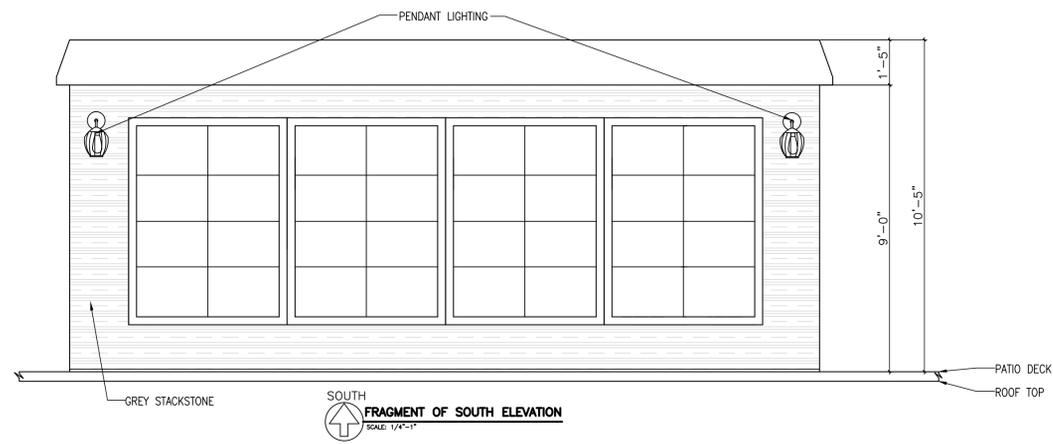
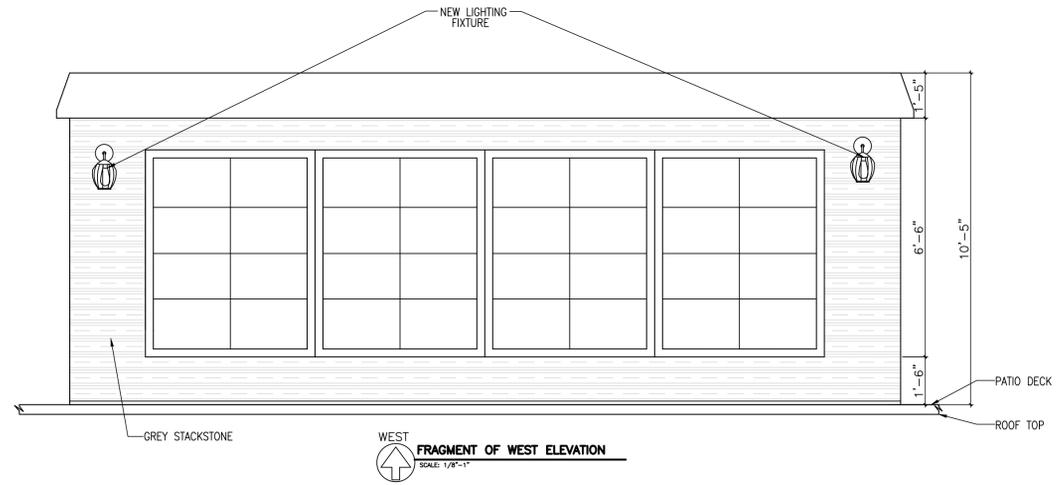
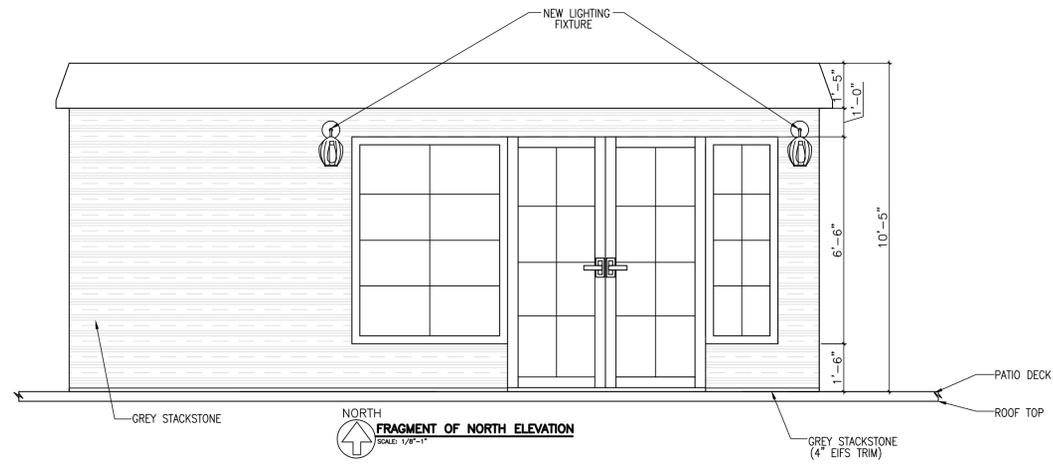
ARCHITECTURAL SEAL:



PROJECT NO.:
2686

SHEET TITLE:
FRAGMENT ELEVATIONS

SHEET NO.:
A5



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Looking south towards Eisenhower Blvd.



Looking north toward AA-Saline Road