

BLOSSOM DENTAL

CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

SITE PLAN FOR PLANNING COMMISSION APPROVAL

OWNER/APPLICANT

3680 PACKARD ROAD, LLC
 1820 CHICORY RIDGE
 ANN ARBOR, MICHIGAN 48103
 CONTACT: ELIZABETH BARBER

ENGINEER/SURVEYOR/LANDSCAPE ARCH.

MIDWESTERN CONSULTING, LLC
 3815 PLAZA DRIVE
 ANN ARBOR, MICHIGAN 48108
 CONTACT: CANDICE BRIERE
 734-995-0200

ARCHITECT

FUNCHITECTURE
 111 E COURT STREET, SUITE 3D
 FLINT, MICHIGAN 48502
 CONTACT: SHANNON WHITE
 810-287-6668

PROJECT NARRATIVE

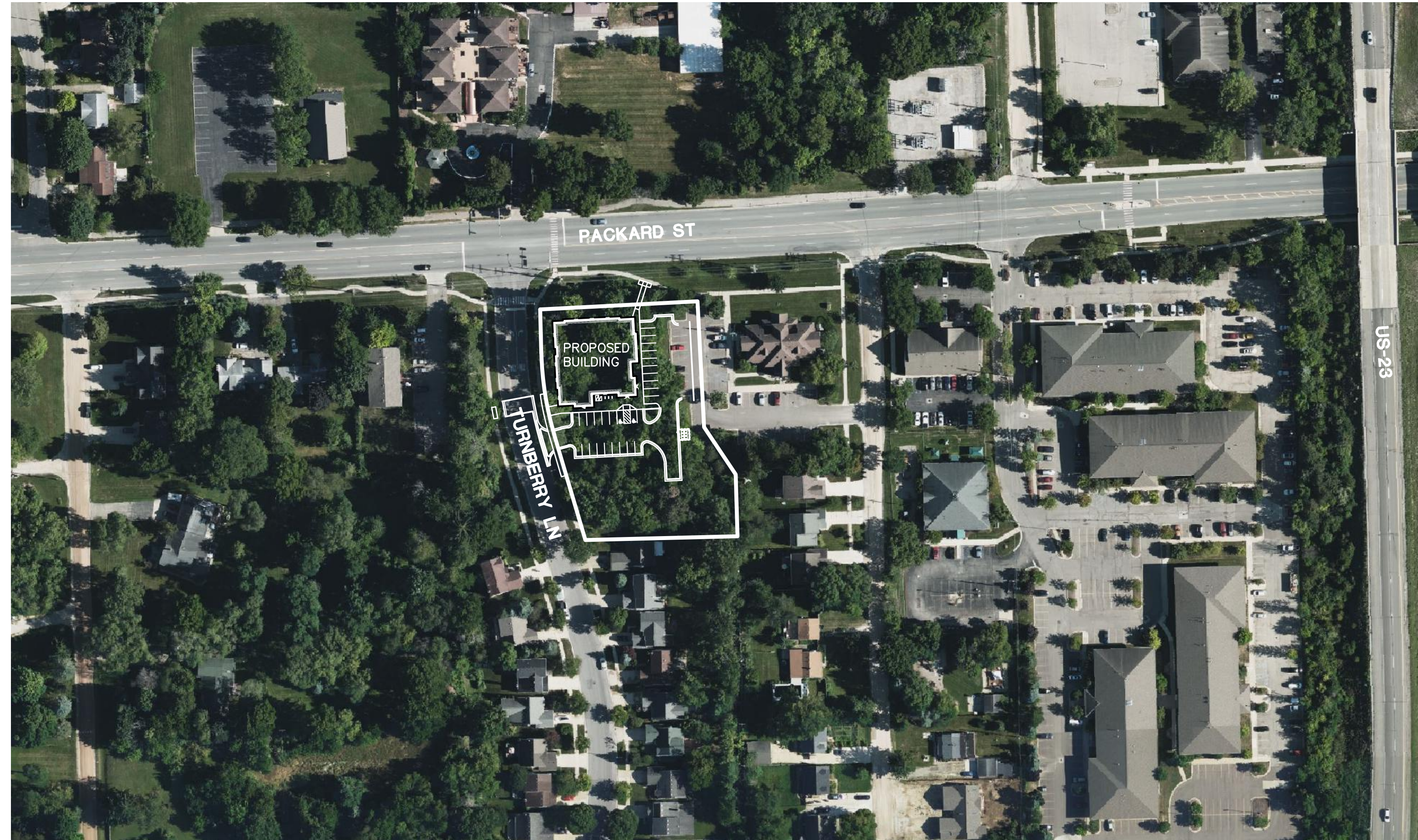
BLOSSOM DENTAL IS REQUESTING THE NECESSARY APPROVALS AND PERMITS TO ALLOW FOR A PROPOSED DEVELOPMENT AT 3680 PACKARD ROAD. THE SITE IS CURRENTLY VACANT. THE PROPOSED PROJECT INCLUDES CONSTRUCTION OF A NEW DENTAL OFFICE, AS WELL AS THE ASSOCIATED PARKING, STORM WATER MANAGEMENT SYSTEM, UTILITY, AND LANDSCAPING IMPROVEMENTS.

THE EXISTING SITE IS 1.21 ACRES IN SIZE AND IS ZONED O: OFFICE. THE PROPOSED BUILDING WILL BE ONE STORY, WITH THE DENTAL OFFICE ON THE FIRST FLOOR AND A PARTIAL BASEMENT FOR STORAGE AND MECHANICAL EQUIPMENT. A SMALL PORTION OF THE FIRST FLOOR WILL BE DEDICATED FOR USE BY A POTENTIAL FUTURE TENANT. THE TOTAL FLOOR AREA OF THE BUILDING, INCLUDING THE BASEMENT, WILL BE 13,273 SF. SITE WORK WILL INCLUDE NEW ASPHALT PARKING AREAS, AN UNDERGROUND STORM WATER MANAGEMENT SYSTEM, WATER AND SANITARY SEWER CONNECTIONS, AND INSTALLATION OF NEW LANDSCAPING, INCLUDING DECIDUOUS AND EVERGREEN TREE PLANTINGS AND SHRUBS. THE SITE INCLUDES TEN EXISTING PARKING SPACES, DRIVE AISLES, AND A SOLID WASTE ENCLOSURE THAT ARE LOCATED WITHIN EXISTING EASEMENTS AND ARE CURRENTLY BEING USED BY THE ADJACENT PROPERTY TO THE EAST, THE ANN ARBOR CAT CLINIC. THE PARKING SPACES, DRIVE AISLES, AND SOLID WASTE ENCLOSURE WILL REMAIN AND WILL BE INCORPORATED INTO THE PROPOSED SITE IMPROVEMENTS. USE OF THE TEN PARKING SPACES AND DUMPSTER WILL BE SHARED BETWEEN THE PROPOSED DENTAL OFFICE AND THE EXISTING CAT CLINIC.

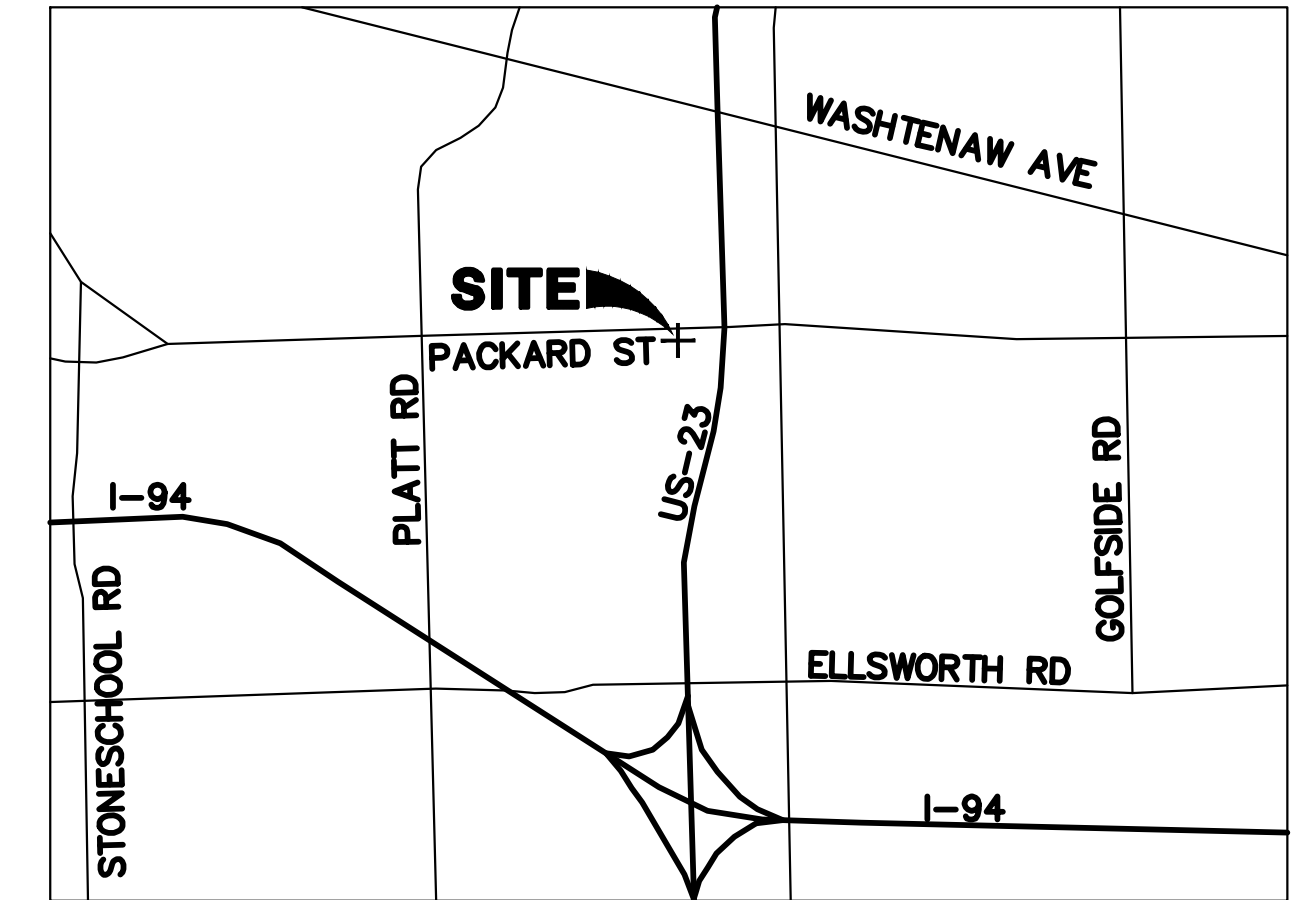
WATER SERVICE WILL BE PROVIDED TO THE BUILDING FROM A NEW CONNECTION TO THE EXISTING 12-INCH WATER MAIN WITHIN THE TURNBERRY LANE RIGHT-OF-WAY. SANITARY SEWER SERVICE WILL BE PROVIDED FROM A NEW CONNECTION TO THE EXISTING 10-INCH SEWER LINE WITHIN THE TURNBERRY LANE RIGHT-OF-WAY. A NEW UNDERGROUND DETENTION SYSTEM IS BEING PROVIDED AS PART OF THE PROPOSED SITE IMPROVEMENTS TO HELP MANAGE STORM WATER RUNOFF. ACCESS TO THE SITE WILL BE PROVIDED VIA ONE NEW CURB CUT ON TURNBERRY LANE.

CITY OF ANN ARBOR REQUIRED NOTES

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES STANDARD SPECIFICATIONS WHICH ARE INCLUDED BY REFERENCE.
2. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND DETAILS.
3. SIDEWALKS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL MEET ALL REQUIREMENTS AND GUIDELINES AS SET FORTH IN THE ADA STANDARDS FOR ACCESSIBLE DESIGN. SIDEWALK AND CURB RAMP GRADES WILL BE REVIEWED DURING CONSTRUCTION PLAN SUBMITTALS.
4. 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.
5. PAVEMENT MARKINGS DISTURBED DUE TO PAVEMENT CUTS OR CONSTRUCTION RELATED ACTIVITIES SHALL BE REPLACED. REPLACEMENT DURING CONSTRUCTION MAY BE CONSIDERED TEMPORARY, WITH FINAL PAVEMENT MARKING RESTORATION TO OCCUR AT THE END OF THE PROJECT.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING PUBLIC ROAD PAVEMENT. DAMAGE TO THE PUBLIC ROAD PAVEMENT DURING CONSTRUCTION MAY NECESSITATE MILLING AND RESURFACING OF THE DAMAGED AREAS.




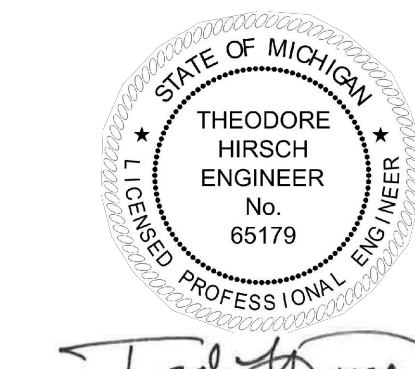
 **SITE MAP**
SCALE : NTS



 **VICINITY MAP**
SCALE : NTS

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BLOSSOM DENTAL		
JOB No. 22127	DATE: 2/28/23	01
REVISIONS:	SHEET 01 OF 22	
REVISED PER CITY REVIEW	05/24/23	
REVISED PER CITY REVIEW	06/29/23	
CADD: CAR ENG: TPH PM: CMB TECH: /22127C01		
 MIDWESTERN CONSULTING 3815 Plaza Drive Ann Arbor, Michigan 48108 (734) 995-0200 • www.midwesternconsulting.com Land Development • Land Survey • Institutional • Municipal Wireless Communications • Transportation • Landfill Services		
RELEASED FOR:	DATE	
SITE PLAN SUBMITTAL	03/14/2023	
SITE PLAN RESUBMITTAL	05/24/2023	
SITE PLAN RESUBMITTAL	06/29/2023	
		 THEODORE P. HIRSCH P.E. #65179

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

DEVELOPMENT SUMMARY

GENERAL PROJECT INFORMATION

3680 Packard Road, LLC (Elizabeth Barber) owns the property located at 3680 Packard Road, Ann Arbor, Michigan, and is requesting site plan approval from the Planning Commission for a new dental office. The site is currently zoned O: Office and no amendment to the zoning is proposed. Proposed site improvements include a new building, asphalt parking areas, underground storm water management system, utility connections, and landscaping. One landscape modification is being requested to allow for the existing trees and vegetation to satisfy the screening requirements for the conflicting land use buffer along the south and east property lines.

3680 Packard Road, LLC does not own any land contiguous to this site.

DEVELOPMENT PROGRAM

- The proposed development includes construction of a new 1-story, 13,273 sf dental office building.
- A total of 29 new parking spaces are being provided, including ADA and EV parking spaces, as well as 4 Class A and 6 Class C bicycle spaces. Additionally, the 10 existing parking spaces within the easement will be shared evenly between the proposed dental office and the adjacent property to the east (Ann Arbor Cat Clinic). The proposed vehicular use area will be 14,859 sf.
- The site will be accessed from one new curb cut on Turnberry Lane.
- Site improvements will include new parking areas and driveways, site lighting, an underground storm water management system, utility connections, solid waste management facilities, and landscaping.
- All improvements are proposed to be completed in one phase.

COMMUNITY ANALYSIS

- IMPACT ON PUBLIC SCHOOLS**
The development does not include any residential units and no impact to public schools is anticipated. The development will provide additional tax revenue for schools.
- RELATIONSHIP TO NEIGHBORING USES**
The current South Area Future Land Use Map within the City of Ann Arbor Master Plan Land Use Element identifies this parcel for use as office. The proposed development as a dental office is consistent with the current zoning classification (O: Office) and the future land use designation. The dental office will serve the surrounding residential neighborhood and will also provide convenient access along the Packard Road corridor. Existing trees and vegetation along the south property line and a portion of the east property line will provide a buffer and screening of the proposed development from the adjacent residential parcels.
- IMPACT OF ADJACENT USES ON PROPOSED DEVELOPMENT**
Adjacent sites are zoned for office and residential uses that will have no negative impact on the proposed development. The proposed use is complementary to the existing veterinary clinic to the east, and it is anticipated that residents within the surrounding residential neighborhood will utilize the proposed dental office.
- IMPACT ON AIR AND WATER QUALITY AND EXISTING NATURAL FEATURES**
 - There will be no anticipated negative impact on air quality.
 - A new underground detention system is being provided as part of the proposed site improvements to help manage storm water runoff by pre-treating, detaining, and releasing the runoff into the public storm sewer at a controlled rate.
 - Water quality controls will be implemented to ensure that runoff during construction is controlled and managed.
- IMPACT ON HISTORIC SITES OR STRUCTURES**
 - The site is not located in an historic district and has not been identified by the City as an individual historic property.
- TRAFFIC STATEMENT**
The following is a trip generation for the proposed dental office at 3680 Packard Road, Ann Arbor. Based on data and equations in the ITE Trip Generation Manual 11th Edition, the table below summarizes the trip generation characteristics of a medical office. Existing sidewalks, bike lanes, and bus stops in the vicinity of the site encourage non-motorized trips, so the estimated vehicular trips will likely decrease as other modes of travel are available and utilized.

Land Use	ITE Code	Size SF	Weekday 24 Hour	AM Peak Hour			PM Peak Hour		
				Enter	Exit	Total	Enter	Exit	Total
Medical Dental Office (Veh)	720	9,000	279	22	6	28	10	24	34
Persons (Driving)	1.37*Veh		382	30	8	38	14	33	47
Persons (Walking/Other)				2	0	2	0	2	2
Total Persons				32	8	40	14	35	49

Please refer to the Trip Generation prepared by Midwestern Consulting dated May 5, 2023 for additional information.

- PUBLIC SIDEWALK MAINTENANCE STATEMENT**
Provided. See Notes on the Cover Sheet.
- IMPACT ON NATURAL FEATURES**
 - No known endangered species habitats exist on this site.
 - Per the ALTA/NSPS Land Title survey: This parcel is located in Zone X of the Flood Insurance Rate Map Number 26161C0406E which bears an effective date of 4/3/2012 and is not in a Special Flood Hazard Area.
 - No woodlands are located on this site. No street trees will be removed as part of this project.
 - There are 6 landmark trees located throughout the site. Five landmark trees will be removed as part of the proposed project. Construction fence will be installed at the limits of the critical root zone for all trees to remain.
 - No steep slopes exist on this site.
 - No existing or proposed watercourses are located on this site.
 - No identified wetlands exist on this site.

Please refer to the Natural Features Plan for additional information.

SITE DATA

Zoning	Existing / Required Zoning O: Office		Proposed Zoning O: Office	
	Permitted Use	Medical / Dental Office	Dental Office	Dental Office
Site Area	6,000	sf min.	52,537	sf
Lot Width	0.14	ac min.	1.21	ac
Lot Width	50	ft min.	187	ft (Packard)
Building				
Floor Area (gross)	NA	sf	13,273	sf total
			8,762	sf ground floor
			4,511	sf basement
Lot Coverage	NA	% max.	16.68	%
Floor Area Ratio	75	% max.	25.26	%
Building Height	55 *	ft max.	27 ft - 9 in	
	4 *	stories max.	1	story
	**when within 300 ft of abutting R zone			
Setbacks				
Front	15	ft min.	15	ft (Packard)
	40	ft max.	15	ft (Turnberry)
Side	0	ft min.		
	30	ft min. abutting R	75	ft (east)
Rear	0	ft min.		
	30	ft min. abutting R	159	ft (south)
Vehicular Parking				
Design Standards	Width: 9 ft; Length: 18 ft; Aisle: 22 ft		Width: 9 ft; Length: 18 ft; Aisle: 22 ft	
Required Parking	0	spaces min.	34 **	spaces
	74	spaces max.	**includes 5 of 10 existing spaces	
	Medical / Dental Office	1 per 180 sf max.		
EV Parking			13	spaces
	25	% EV-C	9 (26.5%)	EV-C spaces
	10	% EV-I	4 (11.8%)	EV-I spaces
Bicycle Parking				
	9	spaces min.	10	spaces
	Medical / Dental Office	1 per 1,500 sf min.		
	30	% Class A	4	Class A spaces
	70	% Class C	6	Class C spaces
Open Space				
	NA	sf	25,093	sf
	NA	ac	0.58	ac
Impervious Surface Coverage				
	NA	%	52.24	%

LEGAL DESCRIPTION

(PER FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO.NCS-1145090-MICH, COMMITMENT DATE: AUGUST 22, 2022)

LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS:

PART OF THE EAST HALF OF SECTION 11, TOWN 3 SOUTH, RANGE 6 EAST, COMMENCING AT THE NORTHEAST CORNER OF SECTION 11, THENCE SOUTH 87 DEGREES 30 MINUTES 27 SECONDS WEST 1492.61 FEET, THENCE SOUTH 1 DEGREE 23 MINUTES 33 SECONDS EAST 296.33 FEET ALONG THE CENTERLINE OF CHERRY TREE LANE, THENCE SOUTH 87 DEGREES 30 MINUTES 27 SECONDS WEST 165.22 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 1 DEGREE 7 MINUTES 33 SECONDS EAST 73.65 FEET, THENCE SOUTH 89 DEGREES 0 MINUTES 35 SECONDS WEST 181.17 FEET, THENCE NORTH 15 DEGREES 59 MINUTES 25 SECONDS WEST 130.99 FEET, THENCE 98.50 FEET ALONG THE ARC OF A CURVE HAVING A RIGHT RADIUS 376.26 FEET ON A CHORD THAT BEARS NORTH 8 DEGREES 29 MINUTES 26 SECONDS WEST 98.22 FEET, THENCE NORTH 0 DEGREES 59 MINUTES 25 SECONDS WEST 52 FEET, THENCE NORTH 87 DEGREES 30 MINUTES 27 SECONDS EAST 187.55 FEET, THENCE SOUTH 2 DEGREES 29 MINUTES 33 SECONDS EAST 150 FEET, THENCE SOUTH 33 DEGREES 22 MINUTES 33 SECONDS EAST 67.76 FEET TO THE POINT OF BEGINNING.

JOB No. **22127**

REV. DATE: 05/24/23
REVISED PER CITY REVIEW: 06/29/23

DATE: 2/28/23
SHEET 01A OF 22
CADD: CAR
ENG: TPH
PM: CMB
TECH: /Z2127/001

01A

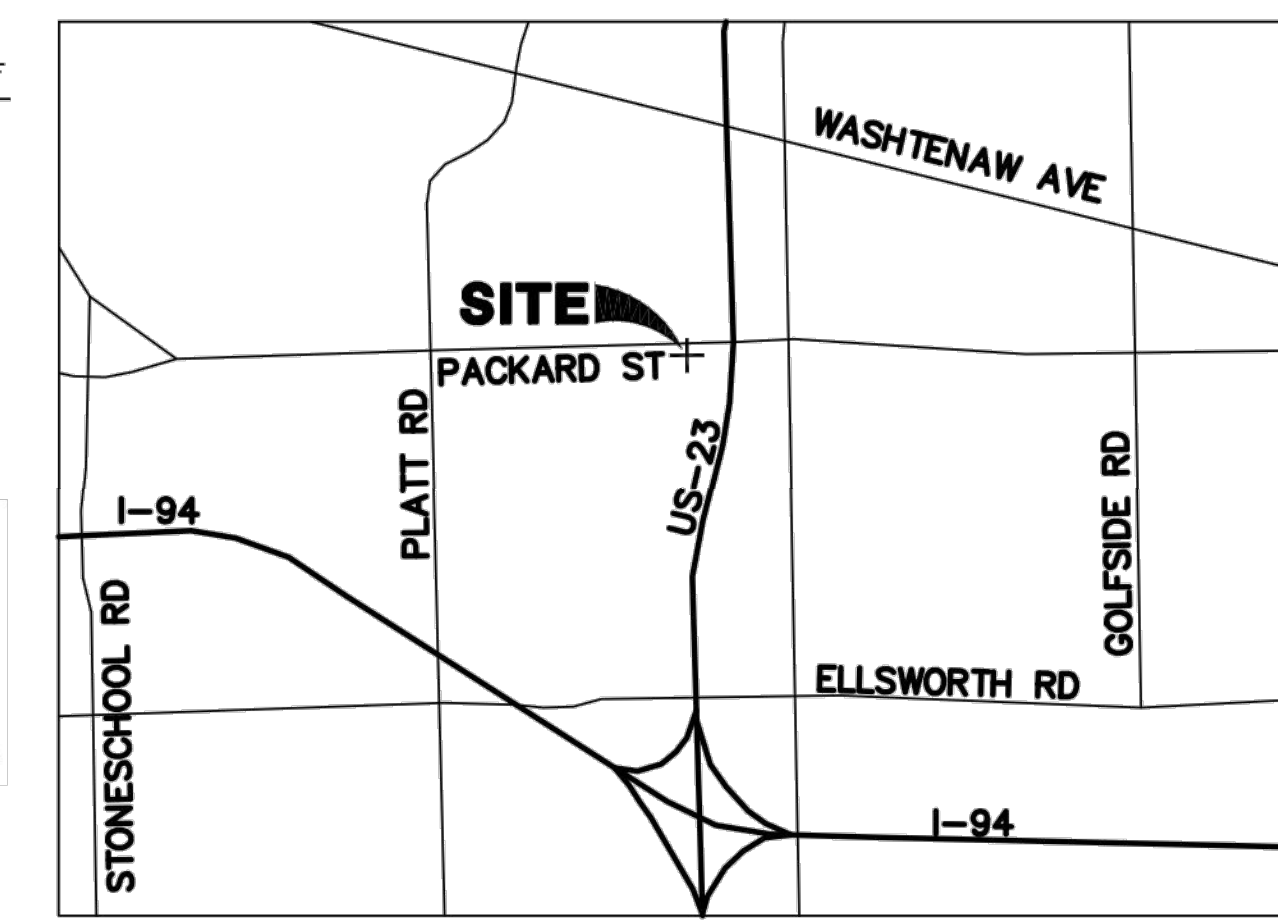
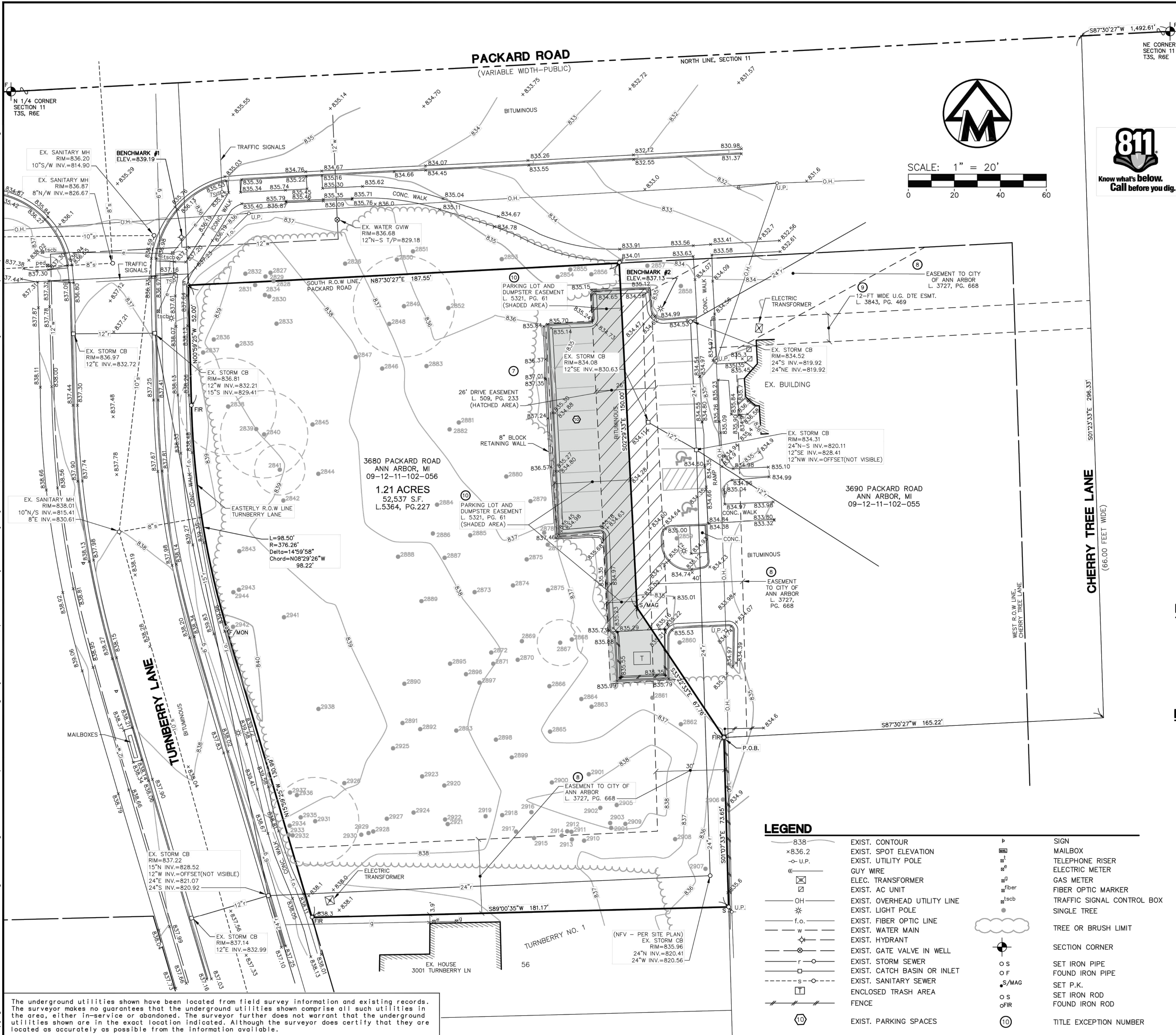
BLOSSOM DENTAL
SITE PLAN
COMPLIANCE INFORMATION

CLIENT
3680 PACKARD ROAD, LLC
1820 CHICOORY RIDGE
ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

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VICINITY MAP
SCALE: NTS

LEGAL DESCRIPTION

(PER FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. NCS-1145090-MICH, COMMITMENT DATE: AUGUST 22, 2022)

Land in the City of Ann Arbor, Washtenaw County, MI, described as follows:
Part of the East half of Section 11, Town 3 South, Range 6 East, commencing at the Northeast corner of Section 11, thence South 87 degrees 30 minutes 27 seconds West 1492.61 feet, thence South 1 degree 23 minutes 33 seconds East 296.33 feet along the Centerline of Cherry Tree Lane, thence South 87 degrees 30 minutes 27 seconds West 165.22 feet to the Point of Beginning, thence South 1 degree 7 minutes 33 seconds East 73.65 feet, thence South 89 degrees 0 minutes 35 seconds West 181.17 feet, thence North 15 degrees 59 minutes 25 seconds West 130.99 feet, thence 98.50 feet along the arc of a curve having a right radius 376.26 feet on a chord that bears North 8 degrees 29 minutes 26 seconds West 98.22 feet, thence North 0 degrees 59 minutes 25 seconds West 52 feet, thence North 87 degrees 30 minutes 27 seconds East 187.55 feet, thence South 2 degrees 29 minutes 33 seconds East 150 feet, thence South 33 degrees 22 minutes 33 seconds East 67.76 feet to the Point of Beginning.

EXCEPTIONS

- 1. The terms, provisions and easement(s) contained in the document entitled "Declaration of Cross Access Driveway Easement" recorded October 3, 1997 as Liber 3509, Page 233 of Official Records. (PLOTTED - PER SITE PLAN LOCATION. NO DESCRIPTION PROVIDED) SEE SHEET 2 OF 2 FOR DETAIL
- 2. The terms, provisions and easement(s) contained in the document entitled "Grant of Easement" recorded August 4, 1998 as Liber 3727, Page 668 of Official Records. (PLOTTED)
- 3. The terms, provisions and easement(s) contained in the document entitled "Detroit Edison Underground Easement (Right of Way) No. Right of Way # 167395" recorded January 22, 1999 as Liber 3843, Page 469 of Official Records. (PLOTTED - ON ADJACENT SITE)
- 4. The terms, provisions and easement(s) contained in the document entitled "Easement Agreement" recorded September 23, 2019 as Liber 5321, Page 61 of Official Records. (PLOTTED) SEE SHEET 2 OF 2 FOR DETAIL

BENCHMARKS

- BENCHMARK #1
TOP NUT OF HYDRANT AT SOUTHEAST CORNER OF TURNBERRY LANE AND PACKARD ROAD, 11 FEET NORTH OF SIDEWALK.
ELEVATION = 839.19 (NAVD 88 DATUM)
- BENCHMARK #2
TOP OF WEST SIDE OF CONCRETE LIGHTPOLE BASE IN THE NORTHEAST CORNER OF PARKING LOT, LOCATED AT 3690 PACKARD ROAD.
ELEVATION = 837.13 (NAVD 88 DATUM)

NOTES

- THIS SURVEY WAS PREPARED USING FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-1145090-MICH WITH AN EFFECTIVE DATE OF AUGUST 22, 2022.
- THE LEGAL DESCRIPTION DESCRIBES THE SAME PROPERTY AS INSURED IN THE TITLE COMMITMENT AND ANY EXCEPTIONS HAVE BEEN NOTED HEREIN.
- SAID DESCRIBED PROPERTY IS LOCATED WITHIN ZONE "X" AREAS OF MINIMAL FLOODING, PER FLOOD INSURANCE RATE MAP NO. 26161C0406E, WITH AN EFFECTIVE DATE OF APRIL 3, 2012, FOR COMMUNITY NUMBER 260213, IN WASHTENAW COUNTY, STATE OF MICHIGAN, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.
- THE PARCEL HEREIN DESCRIBED HAS 10 REGULAR STRIPED PARKING SPACES AND 0 HANDICAP SPACES AS OF THE DATE OF THIS SURVEY.
- THERE IS NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS.

SURVEYORS CERTIFICATE

To: Dr. Elizabeth A. Barber, 3680 Packard Road, L.L.C., a Michigan limited liability company; JP Morgan Chase, NA; Dickinson Wright PLLC; and First American Title Insurance Company;
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7a, 8, 9 and 16 of Table A thereof. The fieldwork was completed on 9/22/2022.

MIDWESTERN CONSULTING, L.L.C.
By: *Mark Vander Veen*
Mark Vander Veen, P.S. No. 56788
Date: October 13, 2022



LEGEND

838	EXIST. CONTOUR	□	SIGN
×836.2	EXIST. SPOT ELEVATION	□	MAILBOX
○-U.P.	EXIST. UTILITY POLE	□	TELEPHONE RISER
—	GUY WIRE	□	ELECTRIC METER
⊠	ELEC. TRANSFORMER	□	GAS METER
—	EXIST. AC UNIT	□	FIBER OPTIC MARKER
—	EXIST. OVERHEAD UTILITY LINE	□	TRAFFIC SIGNAL CONTROL BOX
—	EXIST. LIGHT POLE	□	SINGLE TREE
—	EXIST. FIBER OPTIC LINE	□	TREE OR BRUSH LIMIT
—	EXIST. WATER MAIN	□	SECTION CORNER
—	EXIST. HYDRANT	□	SET IRON PIPE
—	EXIST. GATE VALVE IN WELL	□	FOUND IRON PIPE
—	EXIST. STORM SEWER	□	SET P.K.
—	EXIST. CATCH BASIN OR INLET	□	SET IRON ROD
—	EXIST. SANITARY SEWER	□	FOUND IRON ROD
—	ENCLOSED TRASH AREA	□	TITLE EXCEPTION NUMBER
—	FENCE	□	
10	EXIST. PARKING SPACES	□	

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

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734-645-6063

3680 PACKARD ROAD
ALTA/NSPS LAND TITLE SURVEY OF A PARCEL OF LAND
LOCATED IN THE NORTHEAST 1/4 OF SECTION 11, T3S, R6E,
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

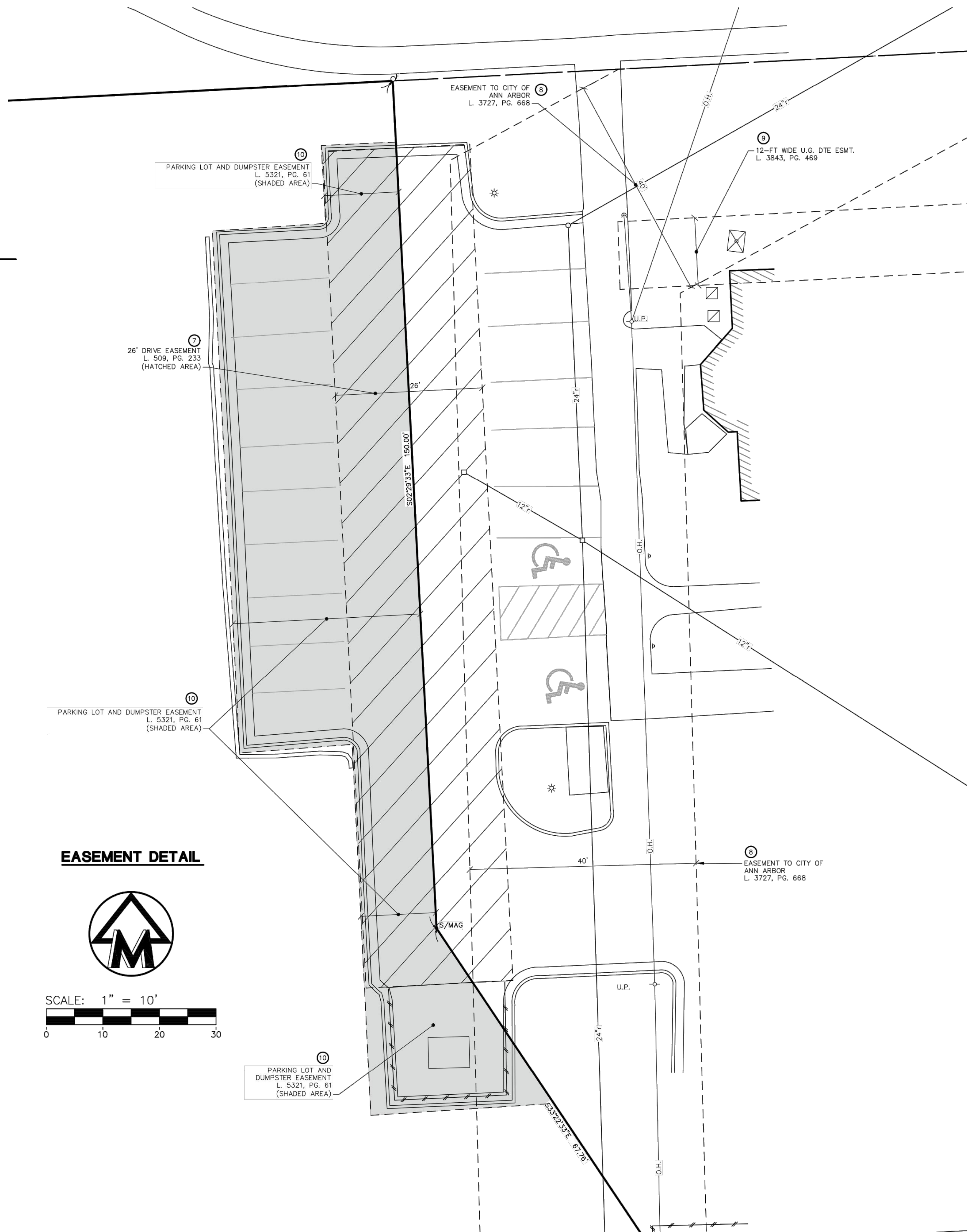
02

DATE: 10/13/2022
SHEET 1 OF 2
JOB No. **22127**
REVISIONS:

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TREE TABLE

TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	RM	TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV	RM
2826	8"	Black Walnut	Juglans nigra						2886	9"	Sugar Maple	Acer saccharum					X
2828	10"	Sugar Maple	Acer saccharum						2887	12"	Sugar Maple	Acer saccharum					X
2827	8"	Sugar Maple	Acer saccharum						2888	9"	Black Cherry	Prunus serotina					X
2829	8"	Sugar Maple	Acer saccharum						2889	8"	American Elm	Ulmus americana					X
2830	11"	Sugar Maple	Acer saccharum						2890	14"	Black Cherry	Prunus serotina					X
2831	10"	Sugar Maple	Acer saccharum						2891	10"	Black Cherry	Prunus serotina					X
2832	7"	Sugar Maple	Acer saccharum						2892	11"	Black Cherry	Prunus serotina					X
2833	6"	American Elm	Ulmus americana						2893	8"	Red Elm	Ulmus rubra					X
2834	7"	Sugar Maple	Acer saccharum						2894	7"	Black Cherry	Prunus serotina					X
2835	13"	Black Walnut	Juglans nigra						2895	12"	Box Elder	Acer negundo					X
2836	9"	Northern Hackberry	Celtis occidentalis						2896	7"	American Elm	Ulmus americana					X
2837	7"	Sugar Maple	Acer saccharum						2897	7"	Black Cherry	Prunus serotina					X
2838	21"	Black Walnut	Juglans nigra			X			2898	8"	Black Walnut	Juglans nigra					X
2839	11"	Black Walnut	Juglans nigra			X			2899	14"	Black Cherry	Prunus serotina					X
2840	19"	Black Walnut	Juglans nigra			X			2900	10"	Black Cherry	Prunus serotina					X
2841	11"	Redbud	Cercis canadensis			X			2901	15"	American Elm	Ulmus americana					X
2842	6"	Redbud	Cercis canadensis			X			2902	9"	Black Cherry	Prunus serotina					X
2843	12"	Box Elder	Acer negundo						2903	10"	Black Pine	Pinus nigra				X	
2844	14"	Black Cherry	Prunus serotina		40%				2904	7"	Box Elder	Acer negundo					X
2845	11"	Black Walnut	Juglans nigra						2905	13"	Black Cherry	Prunus serotina					X
2846	14"	Black Walnut	Juglans nigra						2906	12"	Black Walnut	Juglans nigra					X
2847	16"	Black Walnut	Juglans nigra						2907	9"	Siberian Elm	Ulmus pumila				X	
2848	7"	Black Walnut	Juglans nigra						2908	14"	Cottonwood	Populus deltoides					X
2849	22"	Sugar Maple	Acer saccharum				X		2909	7"	Siberian Elm	Ulmus pumila					X
2850	7"	Box Elder	Acer negundo	twin					2910	9"	Box Elder	Acer negundo	twin				X
2851	8"	American Elm	Ulmus americana						2911	12"	Black Pine	Pinus nigra				X	
2852	13"	Black Walnut	Juglans nigra						2912	13"	Black Pine	Pinus nigra				X	
2853	15"	Sugar Maple	Acer saccharum						2913	11"	Black Pine	Pinus nigra				X	
2854	15"	Scotch Pine	Pinus sylvestris				X		2914	18"	Black Pine	Pinus nigra				X	
2855	11"	Black Walnut	Juglans nigra						2915	8"	Sugar Maple	Acer saccharum					X
2856	6"	Blue Spruce	Picea pungens						2916	12"	Sweet Cherry	Prunus avium					X
2857	10"	Blue Spruce	Picea pungens						2917	14"	Black Pine	Pinus nigra					X
2858	15"	Bradford Pear	Pyrus calleryana						2918	9"	Black Pine	Pinus nigra					X
2859	14"	Bradford Pear	Pyrus calleryana						2919	12"	Black Cherry	Prunus serotina					X
2860	13"	Bradford Pear	Pyrus calleryana						2920	12"	Black Cherry	Prunus serotina					X
2861	9"	Black Pine	Pinus nigra				X		2921	14"	Sweet Cherry	Prunus avium					X
2862	9"	Black Pine	Pinus nigra				X		2922	15"	Red Oak	Quercus rubra					X
2863	11"	Sweet Cherry	Prunus avium	twin			X		2923	6"	Black Cherry	Prunus serotina					X
2864	8"	Box Elder	Acer negundo						2924	11"	Black Cherry	Prunus serotina					X
2865	11"	Black Walnut	Juglans nigra						2925	11"	Black Cherry	Prunus serotina					X
2866	11"	Black Walnut	Juglans nigra						2926	8"	Black Cherry	Prunus serotina					X
2867	10"	Butternut	Juglans cinerea			X			2927	8"	American Elm	Ulmus americana					X
2868	9"	Black Cherry	Prunus serotina						2928	15"	American Elm	Ulmus americana					X
2869	8"	American Elm	Ulmus americana						2929	8"	American Elm	Ulmus americana					X
2870	6"	Black Cherry	Prunus serotina						2930	14"	Black Pine	Pinus nigra				X	
2871	6"	American Elm	Ulmus americana						2931	19"	Bur Oak	Quercus macrocarpa			X		X
2872	6"	American Elm	Ulmus americana						2932	14"	Black Pine	Pinus nigra				X	
2873	17"	Scotch Pine	Pinus sylvestris			X			2933	9"	Black Pine	Pinus nigra				X	
2874	6"	Sugar Maple	Acer saccharum				X		2934	13"	Black Pine	Pinus nigra				X	
2875	16"	Scotch Pine	Pinus sylvestris				X		2935	9"	Black Pine	Pinus nigra				X	
2876	7"	Sugar Maple	Acer saccharum				X		2936	6"	American Elm	Ulmus americana					X
2877	7"	Black Cherry	Prunus serotina				X		2937	11"	American Elm	Ulmus americana					X
2878	10"	American Elm	Ulmus americana				X		2938	12"	Black Walnut	Juglans nigra					X
2879	9"	Red Elm	Ulmus rubra				X		2939	10"	Box Elder	Acer negundo					X
2880	14"	Sugar Maple	Acer saccharum				X		2940	7"	Redbud	Cercis canadensis					X
2881	9"	American Elm	Ulmus americana				X		2941	11"	Black Walnut	Juglans nigra					X
2882	7"	Sugar Maple	Acer saccharum				X		2942	15"	American Elm	Ulmus americana					X
2883	9"	Sugar Maple	Acer saccharum				X		2943	7"	Box Elder	Acer negundo					X
2884	8"	Black Cherry	Prunus serotina	twin	40%		X		2944	12"	American Elm	Ulmus americana					X
2885	7"	Black Cherry	Prunus serotina				X										



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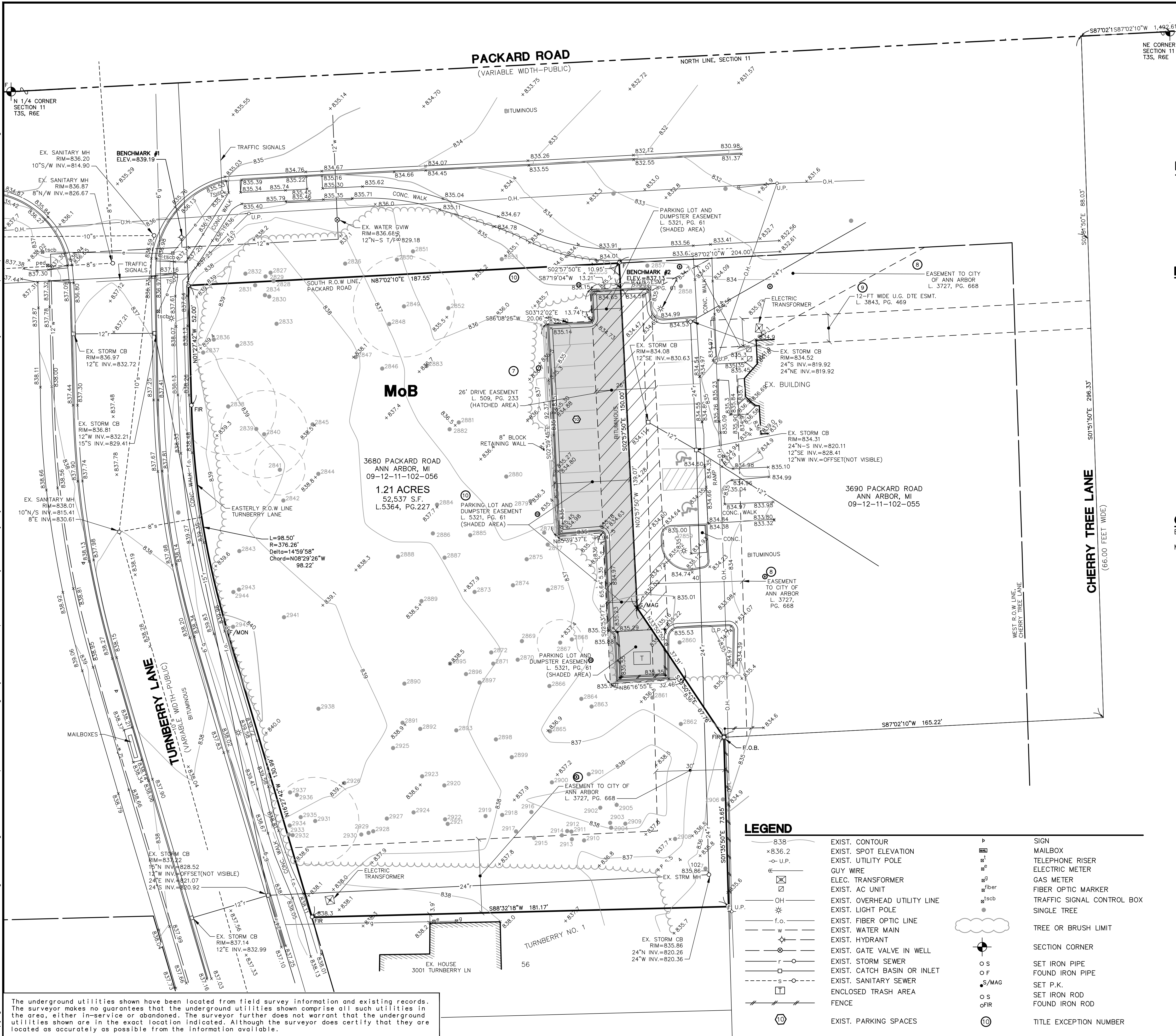
CLIENT
 DR. LIZZY BARBER
 8820 CHICORY RIDGE
 ANN ARBOR, MI 48103
 DR. LIZZY BARBER
 734-645-6063

3680 PACKARD ROAD
 ALTA/NSPS LAND TITLE SURVEY OF A PARCEL OF LAND
 LOCATED IN THE NORTHEAST 1/4 OF SECTION 11, T3S, R6E,
 CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

03

JOB No. 22127

MA:\Civil\134_P\122127\Site Plan\122127.dwg, 6/29/2023 5:01 PM, Charly A. Richards, 04 EXISTING CONDITIONS, MCLC PDF, p.3
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811
Know what's below.
Call before you dig.

SCALE: 1" = 20'

BENCHMARKS

BENCHMARK #1
TOP OF HYDRANT AT SOUTHEAST CORNER OF TURNBERRY LANE AND PACKARD ROAD, 11 FEET NORTH OF SIDEWALK.
ELEVATION = 839.19 (NAVD 88 DATUM)

BENCHMARK #2
TOP OF WEST SIDE OF CONCRETE LIGHTPOLE BASE IN THE NORTHEAST CORNER OF PARKING LOT, LOCATED AT 3690 PACKARD ROAD.
ELEVATION = 837.13 (NAVD 88 DATUM)

NOTES

- THIS SURVEY WAS PREPARED USING FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-1145090-MICH WITH AN EFFECTIVE DATE OF AUGUST 22, 2022.
- THE LEGAL DESCRIPTION DESCRIBES THE SAME PROPERTY AS INSURED IN THE TITLE COMMITMENT AND ANY EXCEPTIONS HAVE BEEN NOTED HEREIN.
- SAID DESCRIBED PROPERTY IS LOCATED WITHIN ZONE "X" AREAS OF MINIMAL FLOODING, PER FLOOD INSURANCE RATE MAP NO. 26161C0406E, WITH AN EFFECTIVE DATE OF APRIL 3, 2012, FOR COMMUNITY NUMBER 260213, IN WASHTENAW COUNTY, STATE OF MICHIGAN, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.
- THE PARCEL HEREIN DESCRIBED HAS 10 REGULAR STRIPED PARKING SPACES AND 0 HANDICAP SPACES AS OF THE DATE OF THIS SURVEY.
- THERE IS NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS.
- THE BASE SURVEY WAS PREPARED BY MIDWESTERN CONSULTING IN SEPTEMBER 2022. ALL UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.

GENERAL SOILS DESCRIPTION

BASED ON SOIL SURVEY OF WASHTENAW COUNTY MICHIGAN
MoB - MORLEY LOAM, 2 TO 6 PERCENT SLOPES

LEGEND

	EXIST. CONTOUR		SIGN
	EXIST. SPOT ELEVATION		MAILBOX
	EXIST. UTILITY POLE		TELEPHONE RISER
	GUY WIRE		ELECTRIC METER
	ELEC. TRANSFORMER		GAS METER
	EXIST. AC UNIT		FIBER OPTIC MARKER
	EXIST. OVERHEAD UTILITY LINE		TRAFFIC SIGNAL CONTROL BOX
	EXIST. LIGHT POLE		SINGLE TREE
	EXIST. FIBER OPTIC LINE		TREE OR BRUSH LIMIT
	EXIST. WATER MAIN		SECTION CORNER
	EXIST. HYDRANT		SET IRON PIPE
	EXIST. GATE VALVE IN WELL		FOUND IRON PIPE
	EXIST. STORM SEWER		SET P.K.
	EXIST. CATCH BASIN OR INLET		SET IRON ROD
	EXIST. SANITARY SEWER		FOUND IRON ROD
	ENCLOSED TRASH AREA		TITLE EXCEPTION NUMBER
	FENCE		
	EXIST. PARKING SPACES		

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BLOSSOM DENTAL
SITE PLAN
EXISTING CONDITIONS

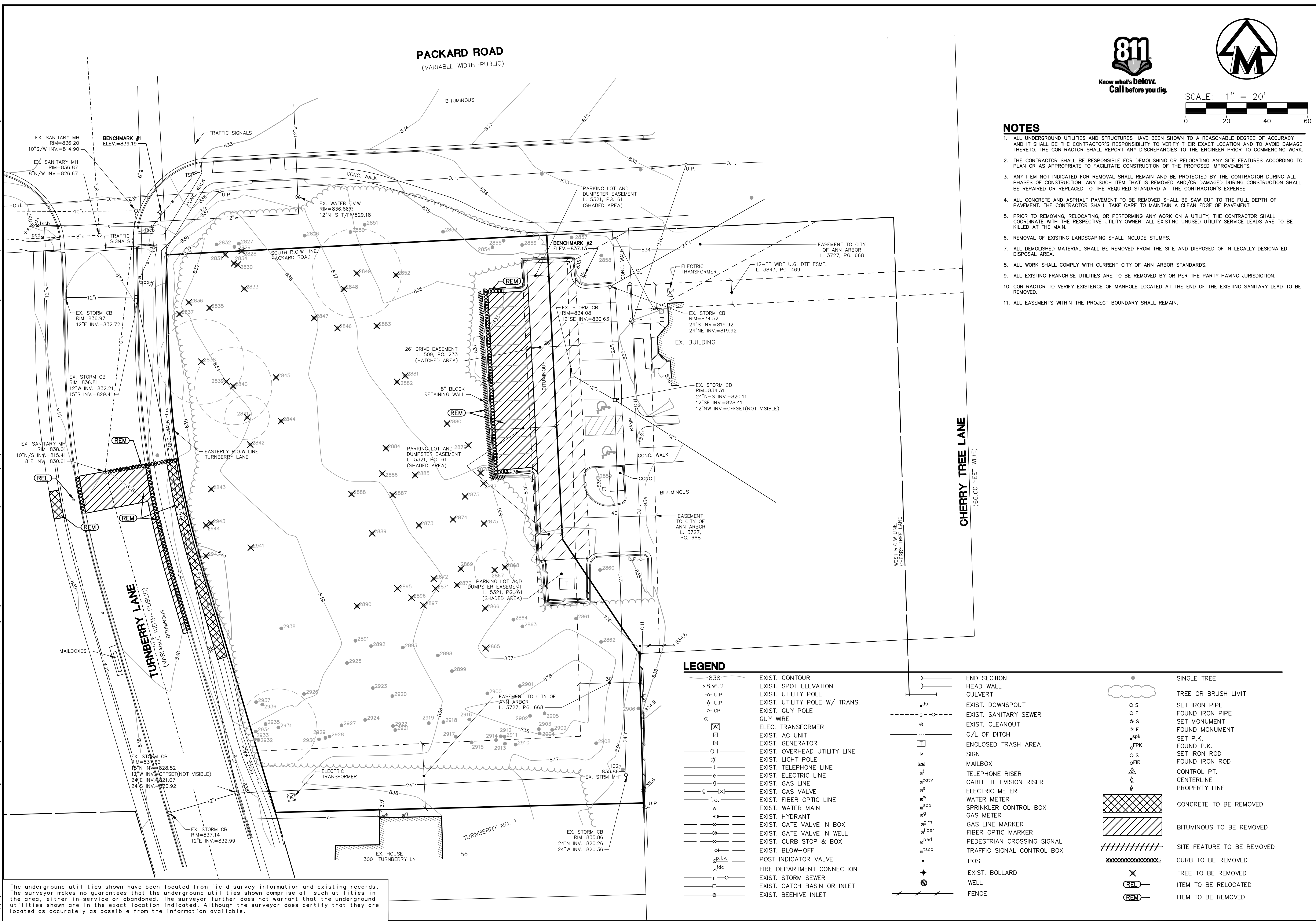
DATE: 02/28/23
SHEET 04 OF 22
REV. DATE: 05/24/23
CADD: CPH
ENG. TPH
P.M.: CMB
TECH: /ZZ1Z1E01

22127

JOB No. 22127
REVISIONS:
REVISED PER CITY REVIEW
REVISED PER CITY REVIEW

CLIENT:
3680 PACKARD ROAD, LLC
1820 CHICORY RIDGE
ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

M:\Civ\134_P\0122127\Site Plan\05 Removals Plan_MLLC PDF.dwg, 07/29/2023 5:01 PM, Charly A. Richards, 05 Removals Plan_MLLC PDF.dwg
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PACKARD ROAD
(VARIABLE WIDTH-PUBLIC)

TURNBERRY LANE
(VARIABLE WIDTH-PUBLIC)

CHERRY TREE LANE
(66.00 FEET WIDE)

SCALE: 1" = 20'

- NOTES**
1. ALL UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLISHING OR RELOCATING ANY SITE FEATURES ACCORDING TO PLAN OR AS APPROPRIATE TO FACILITATE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
 3. ANY ITEM NOT INDICATED FOR REMOVAL SHALL REMAIN AND BE PROTECTED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION. ANY SUCH ITEM THAT IS REMOVED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE REQUIRED STANDARD AT THE CONTRACTOR'S EXPENSE.
 4. ALL CONCRETE AND ASPHALT PAVEMENT TO BE REMOVED SHALL BE SAW CUT TO THE FULL DEPTH OF PAVEMENT. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN A CLEAN EDGE OF PAVEMENT.
 5. PRIOR TO REMOVING, RELOCATING, OR PERFORMING ANY WORK ON A UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNER. ALL EXISTING UNUSED UTILITY SERVICE LEADS ARE TO BE KILLED AT THE MAIN.
 6. REMOVAL OF EXISTING LANDSCAPING SHALL INCLUDE STUMPS.
 7. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN LEGALLY DESIGNATED DISPOSAL AREA.
 8. ALL WORK SHALL COMPLY WITH CURRENT CITY OF ANN ARBOR STANDARDS.
 9. ALL EXISTING FRANCHISE UTILITIES ARE TO BE REMOVED BY OR PER THE PARTY HAVING JURISDICTION.
 10. CONTRACTOR TO VERIFY EXISTENCE OF MANHOLE LOCATED AT THE END OF THE EXISTING SANITARY LEAD TO BE REMOVED.
 11. ALL EASEMENTS WITHIN THE PROJECT BOUNDARY SHALL REMAIN.

LEGEND

838	EXIST. CONTOUR	—	END SECTION	●	SINGLE TREE
x836.2	EXIST. SPOT ELEVATION	—	HEAD WALL	○	TREE OR BRUSH LIMIT
U.P.	EXIST. UTILITY POLE	—	CULVERT	○	SET IRON PIPE
U.P.	EXIST. UTILITY POLE W/ TRANS.	—	EXIST. DOWNSPOUT	○	FOUND IRON PIPE
GP	EXIST. GUY POLE	—	EXIST. SANITARY SEWER	○	SET MONUMENT
GUY WIRE	EXIST. GUY WIRE	—	EXIST. CLEANOUT	○	FOUND MONUMENT
ELEC. TRANSFORMER	ELEC. TRANSFORMER	—	C/L OF DITCH	○	SET P.K.
AC UNIT	EXIST. AC UNIT	—	ENCLOSED TRASH AREA	○	FOUND P.K.
GENERATOR	EXIST. GENERATOR	—	MAILBOX	○	SET IRON ROD
OVERHEAD UTILITY LINE	EXIST. OVERHEAD UTILITY LINE	—	TELEPHONE RISER	○	FOUND IRON ROD
LIGHT POLE	EXIST. LIGHT POLE	—	CABLE TELEVISION RISER	○	ELECTRIC METER
TELEPHONE LINE	EXIST. TELEPHONE LINE	—	WATER METER	○	SPRINKLER CONTROL BOX
ELECTRIC LINE	EXIST. ELECTRIC LINE	—	GAS METER	○	GAS METER
GAS LINE	EXIST. GAS LINE	—	GAS LINE MARKER	○	FIBER OPTIC MARKER
GAS VALVE	EXIST. GAS VALVE	—	PEDESTRIAN CROSSING SIGNAL	○	TRAFFIC SIGNAL CONTROL BOX
FIBER OPTIC LINE	EXIST. FIBER OPTIC LINE	—	POST	○	POST
WATER MAIN	EXIST. WATER MAIN	—	EXIST. BOLLARD	○	WELL
HYDRANT	EXIST. HYDRANT	—	WELL	○	WELL
GATE VALVE IN BOX	EXIST. GATE VALVE IN BOX	—	FENCE	—	FENCE
GATE VALVE IN WELL	EXIST. GATE VALVE IN WELL	—			
CURB STOP & BOX	EXIST. CURB STOP & BOX	—			
BLOW-OFF	EXIST. BLOW-OFF	—			
POST INDICATOR VALVE	POST INDICATOR VALVE	—			
FIRE DEPARTMENT CONNECTION	FIRE DEPARTMENT CONNECTION	—			
EXIST. STORM SEWER	EXIST. STORM SEWER	—			
CATCH BASIN OR INLET	EXIST. CATCH BASIN OR INLET	—			
BEEHIVE INLET	EXIST. BEEHIVE INLET	—			

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CLIENT
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1820 CHICOORY RIDGE
ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

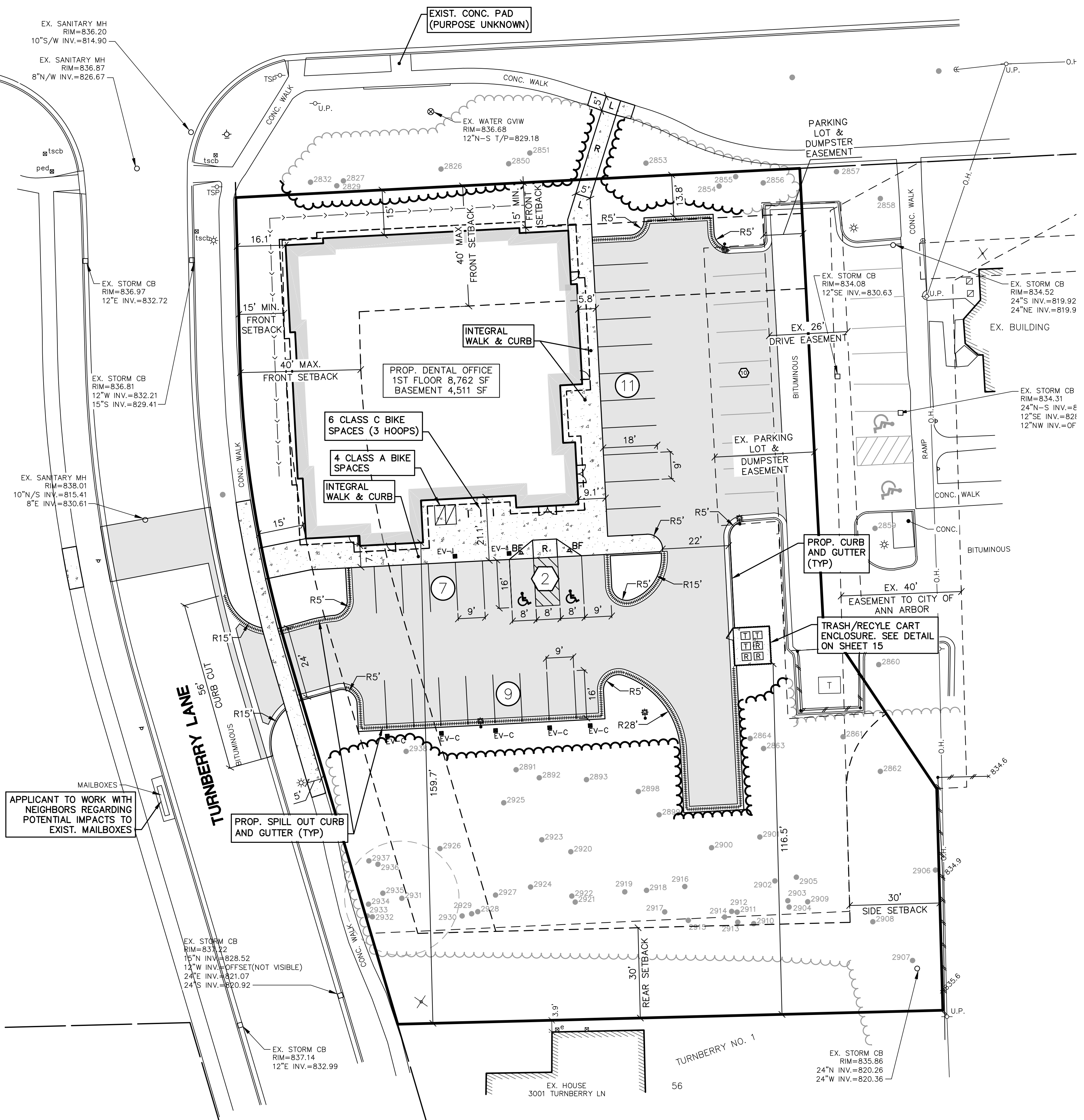
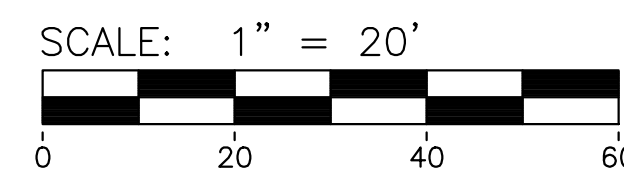
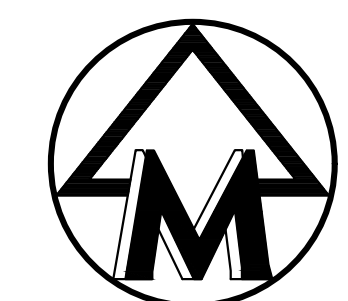
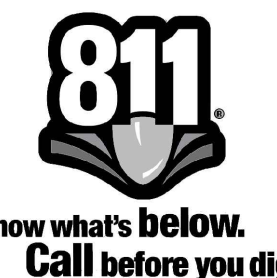
BLOSSOM DENTAL
SITE PLAN
REMOVALS PLAN

05

JOB No. **22127**
DATE: 02/28/23
SHEET 05 OF 22
REV. DATE: 05/24/23
REVISED PER CITY REVIEW
CADD CAR: 06/29/23
ENG. TPH: 06/29/23
P.M. CMB
TECH: /Z2127R01

M:\Civ\132_Proj\132127\Site Plan\2127501.dwg, 6/29/2023 5:01 PM, Charly A. Riehrdr, 06 DIMENSIONAL LAYOUT PLAN, MLLC PDF.ppt
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PACKARD ROAD



NOTES

1. ALL DIMENSIONS ARE MEASURED TO THE PAINT LINE OR FACE OF CURB UNLESS OTHERWISE NOTED. ALL RADII DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE AUTHORITY HAVING JURISDICTION.
3. REFER TO THE ARCHITECTURAL PLANS FOR DETAILS REGARDING THE SCOPE OF WORK FOR THE BUILDING ELEVATIONS, INTERIORS, AND APPURTENANCES.
4. THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR ENGINEER PRIOR TO COMMENCING WORK SHOULD THERE BE ANY FIELD CONFLICTS WITH THE DESIGN INTENT.
5. PROPOSED SIGNAGE SHALL BE PERMITTED SEPARATELY FOLLOWING SITE PLAN APPROVAL IN ACCORDANCE WITH CITY REQUIREMENTS.

LEGEND

- ⊙ NUMBER OF STANDARD PARKING SPACES IN ROW
- NUMBER OF SMALL CAR PARKING SPACES IN ROW
- ⊕ NUMBER OF BARRIER FREE PARKING SPACES IN ROW
- BF BARRIER FREE PARKING SIGN
- LR BARRIER FREE SIDEWALK RAMP & LANDING
- PROP. CURB & GUTTER
- PROP. SPILL OUT CURB & GUTTER
- PROP. BITUMINOUS PAVEMENT
- PROP. CONCRETE PAVEMENT
- PROP. HEAVY DUTY CONCRETE
- ▴ SIGN
- EV-I PROP. SINGLE LIGHT
- EV-I PROP. VEHICLE CHARGING STATION—INSTALLED
- EV-C PROP. VEHICLE CHARGING STATION—CAPPED FOR FUTURE

MAILBOXES
APPLICANT TO WORK WITH NEIGHBORS REGARDING POTENTIAL IMPACTS TO EXIST. MAILBOXES

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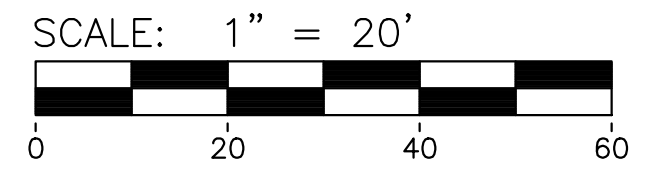
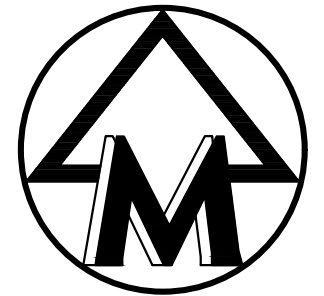
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ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

BLOSSOM DENTAL
SITE PLAN
DIMENSIONAL LAYOUT PLAN

06

JOB No.	22127
DATE:	05/24/23
SHEET	06 OF 22
REV. DATE	CADD: CAR
REVISED PER CITY REVIEW	06/29/23
REVISED PER CITY REVIEW	ENG: TPH
	PM: CMB
	TECH: /Z2127501

PACKARD ROAD



NOTES

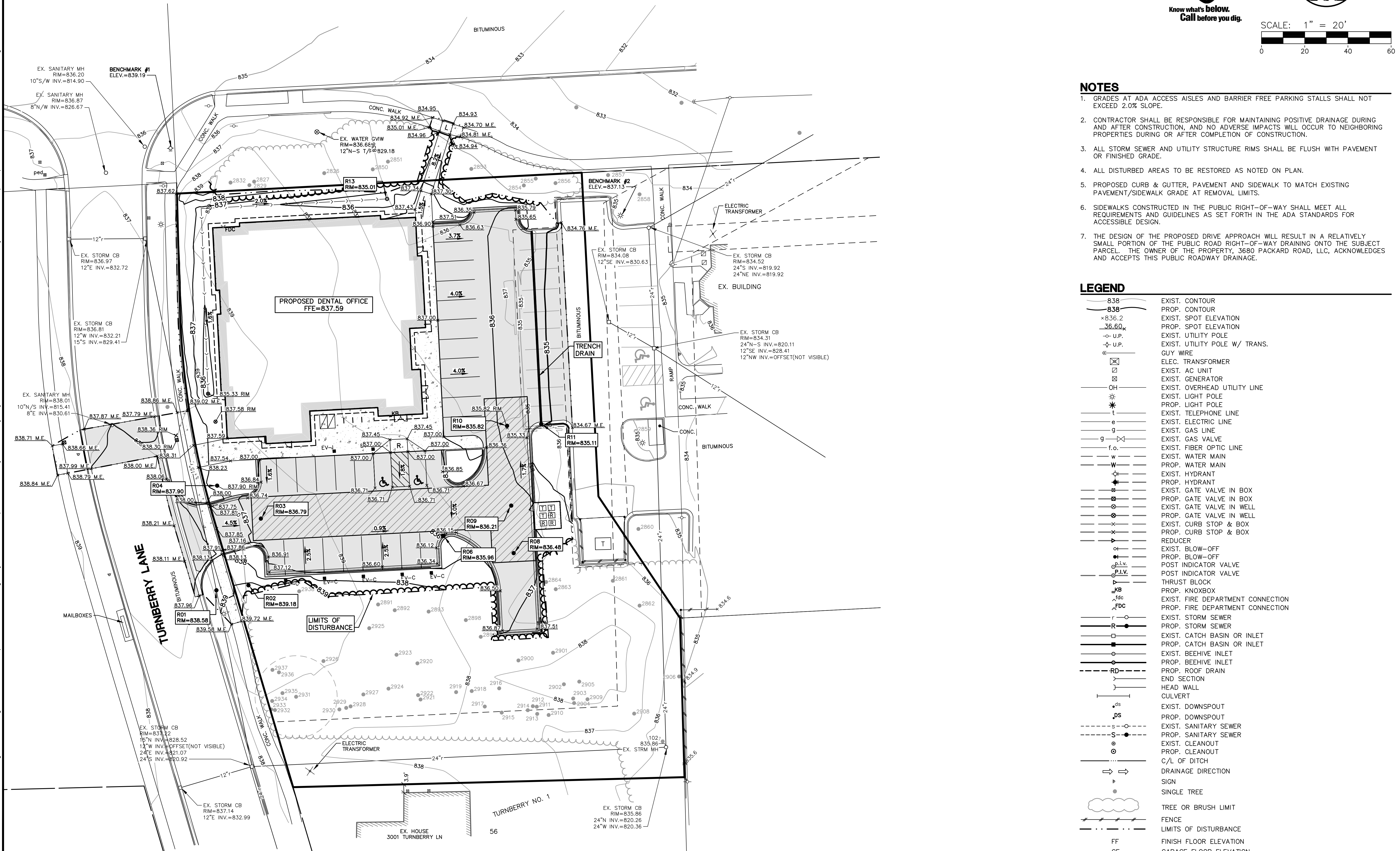
- GRADES AT ADA ACCESS AISLES AND BARRIER FREE PARKING STALLS SHALL NOT EXCEED 2.0% SLOPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE DURING AND AFTER CONSTRUCTION, AND NO ADVERSE IMPACTS WILL OCCUR TO NEIGHBORING PROPERTIES DURING OR AFTER COMPLETION OF CONSTRUCTION.
- ALL STORM SEWER AND UTILITY STRUCTURE RIMS SHALL BE FLUSH WITH PAVEMENT OR FINISHED GRADE.
- ALL DISTURBED AREAS TO BE RESTORED AS NOTED ON PLAN.
- PROPOSED CURB & GUTTER, PAVEMENT AND SIDEWALK TO MATCH EXISTING PAVEMENT/SIDEWALK GRADE AT REMOVAL LIMITS.
- SIDEWALKS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL MEET ALL REQUIREMENTS AND GUIDELINES AS SET FORTH IN THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- THE DESIGN OF THE PROPOSED DRIVE APPROACH WILL RESULT IN A RELATIVELY SMALL PORTION OF THE PUBLIC RIGHT-OF-WAY DRAINING ONTO THE SUBJECT PARCEL. THE OWNER OF THE PROPERTY, 3680 PACKARD ROAD, LLC, ACKNOWLEDGES AND ACCEPTS THIS PUBLIC ROADWAY DRAINAGE.

LEGEND

838	EXIST. CONTOUR
838	PROP. CONTOUR
x836.2	EXIST. SPOT ELEVATION
36.60	PROP. SPOT ELEVATION
o-U.P.	EXIST. UTILITY POLE
o-U.P.	EXIST. UTILITY POLE W/ TRANS.
—	GUY WIRE
⊠	ELEC. TRANSFORMER
⊠	EXIST. AC UNIT
⊠	EXIST. GENERATOR
OH	EXIST. OVERHEAD UTILITY LINE
*	EXIST. LIGHT POLE
*	PROP. LIGHT POLE
t	EXIST. TELEPHONE LINE
e	EXIST. ELECTRIC LINE
g	EXIST. GAS LINE
g	EXIST. GAS VALVE
f.o.	EXIST. FIBER OPTIC LINE
w	EXIST. WATER MAIN
w	PROP. WATER MAIN
—	EXIST. HYDRANT
—	PROP. HYDRANT
—	EXIST. GATE VALVE IN BOX
—	PROP. GATE VALVE IN BOX
—	EXIST. GATE VALVE IN WELL
—	PROP. GATE VALVE IN WELL
—	EXIST. CURB STOP & BOX
—	PROP. CURB STOP & BOX
—	REDUCER
o	EXIST. BLOW-OFF
o	PROP. BLOW-OFF
o	POST INDICATOR VALVE
o	POST INDICATOR VALVE
o	THRUST BLOCK
o	PROP. KNOXBOX
o	EXIST. FIRE DEPARTMENT CONNECTION
o	PROP. FIRE DEPARTMENT CONNECTION
o	EXIST. STORM SEWER
o	PROP. STORM SEWER
o	EXIST. CATCH BASIN OR INLET
o	PROP. CATCH BASIN OR INLET
o	EXIST. BEEHIVE INLET
o	PROP. BEEHIVE INLET
o	EXIST. ROOF DRAIN
o	PROP. ROOF DRAIN
o	END SECTION
o	HEAD WALL
o	CULVERT
o	EXIST. DOWNSPOUT
o	PROP. DOWNSPOUT
o	EXIST. SANITARY SEWER
o	PROP. SANITARY SEWER
o	EXIST. CLEANOUT
o	PROP. CLEANOUT
o	C/L OF DITCH
o	DRAINAGE DIRECTION
o	SIGN
o	SINGLE TREE
o	TREE OR BRUSH LIMIT
o	FENCE
o	LIMITS OF DISTURBANCE
o	FF
o	GF
o	BFF
o	FINISH FLOOR ELEVATION
o	GARAGE FLOOR ELEVATION
o	BASEMENT FINISH FLOOR ELEVATION

M:\CIVIL\22127\22127001.dwg, 6/29/2023 5:01 PM, Charly A. Richards, 07 GRADING PLAN, MLLC P07.pcf
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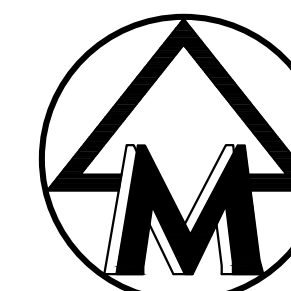
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 1820 CHICOORY RIDGE
 ANN ARBOR, MI 48103
 DR. ELIZABETH BARBER, DDS, MS, PC
 734-645-6063

BLOSSOM DENTAL
 SITE PLAN
 GRADING PLAN

07

JOB No.	22127
DATE	02/28/23
SHEET	07 OF 22
REV. DATE	05/24/23
REVISED PER CITY REVIEW	ENG. TPH
REVISED PER CITY REVIEW	PM. CMB
REVISED PER CITY REVIEW	TECH. /Z2127001

PACKARD ROAD



SCALE: 1" = 20'
 0 20 40 60



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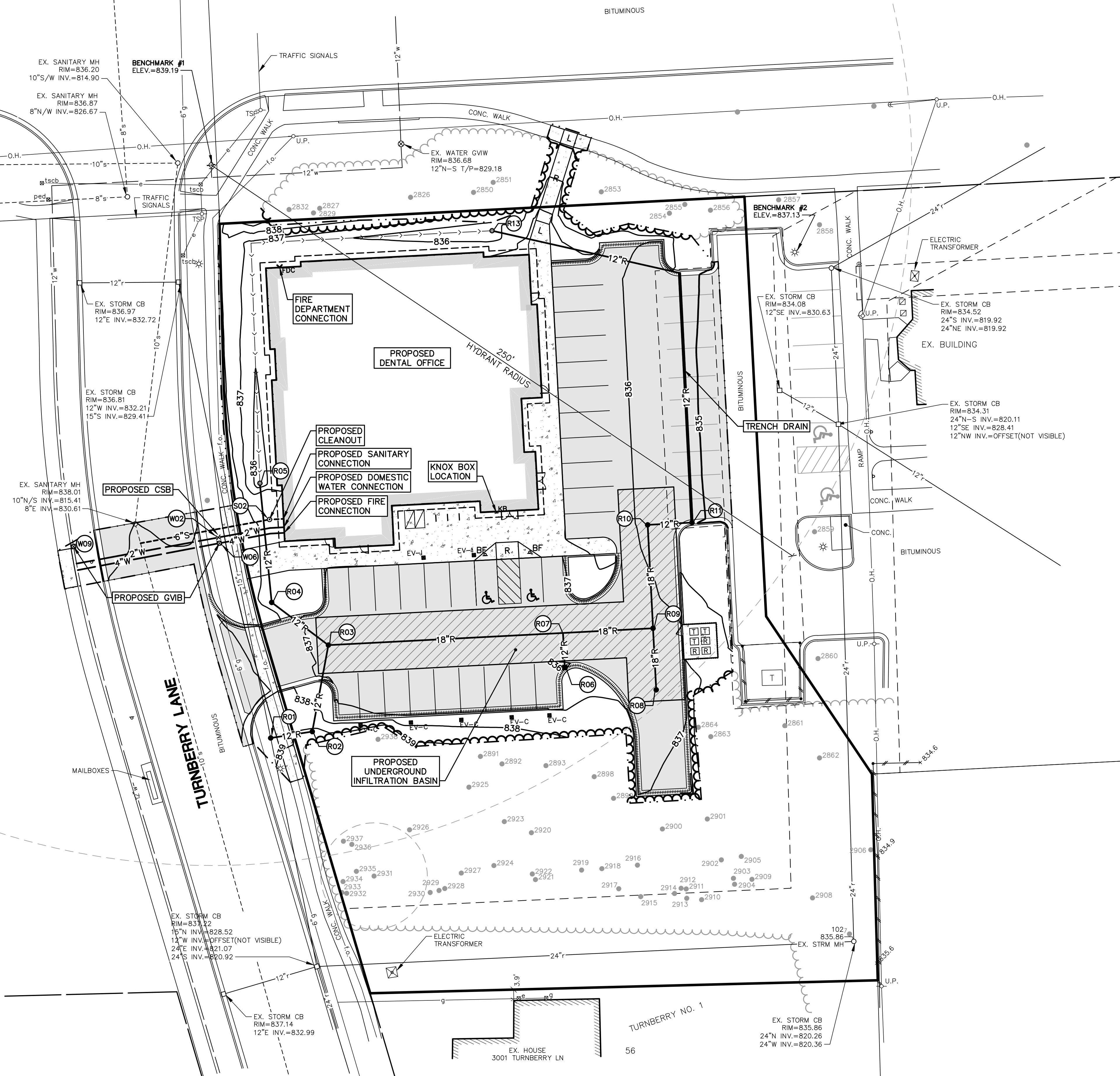
CLIENT
 3680 PACKARD ROAD, LLC
 1820 CHICORY RIDGE
 ANN ARBOR, MI 48103
 DR. ELIZABETH BARBER, DDS, MS, PC
 734-645-6063

BLOSSOM DENTAL
 SITE PLAN
 UTILITY PLAN

08

JOB No. **22127**
 DATE: 02/28/23
 SHEET 08 OF 22
 REVISIONS:
 REV. DATE: 05/24/23
 CADD: CAR
 REVISED PER CITY REVIEW: 06/29/23
 ENG: TPH
 P.M.: CMB
 TECH: CMB
 /22127(08)

M:\CIVIL\22127\Site Plan\22127(08) 08.dwg, 6/29/2023 5:01 PM, Cheryl A. Richards, 08 UTILITY PLAN, MCLLC PDF.pc3
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NOTES

1. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ANN ARBOR STANDARD DETAILS AND SPECIFICATIONS.
2. ALL BUILDING ROOF DRAINS TO TIE INTO PROPOSED STORM SEWER SYSTEM.
3. NO FIRE WALLS ARE PROPOSED WITHIN THE BUILDING
4. BOOSTER PUMPS WILL NOT BE REQUIRED FOR PROPOSED WATER SERVICE LEADS.
5. ALL STORM SEWER TO BE C-76 CL. IV RCP UNLESS OTHERWISE NOTED
6. ALL SANITARY SEWER TO BE SDR 35 PVC UNLESS OTHERWISE NOTED.
7. 4" AND LARGER PROPOSED WATER MAIN PIPE MATERIAL SHALL BE CL50 OR PRESSURE CL350 DIP W/POLYWRAP, UNLESS OTHERWISE SPECIFIED.
8. ALL WATER MAIN 2" AND SMALLER TO BE TYPE K COPPER

SANITARY SEWER MITIGATION CALCS
SANITARY SEWER FLOW MITIGATION CALCULATIONS

Design Flow
 Based on the City of Ann Arbor's sanitary sewer flow evaluation Table 'A', the design dry weather flow rate will be:

8,796 sf Medical Office Space (dentist)	0.10 gpd/sf =	880 gpd
	Total	880 gpd

Existing Flow
 There is no existing flow to account for in this phase of the project.

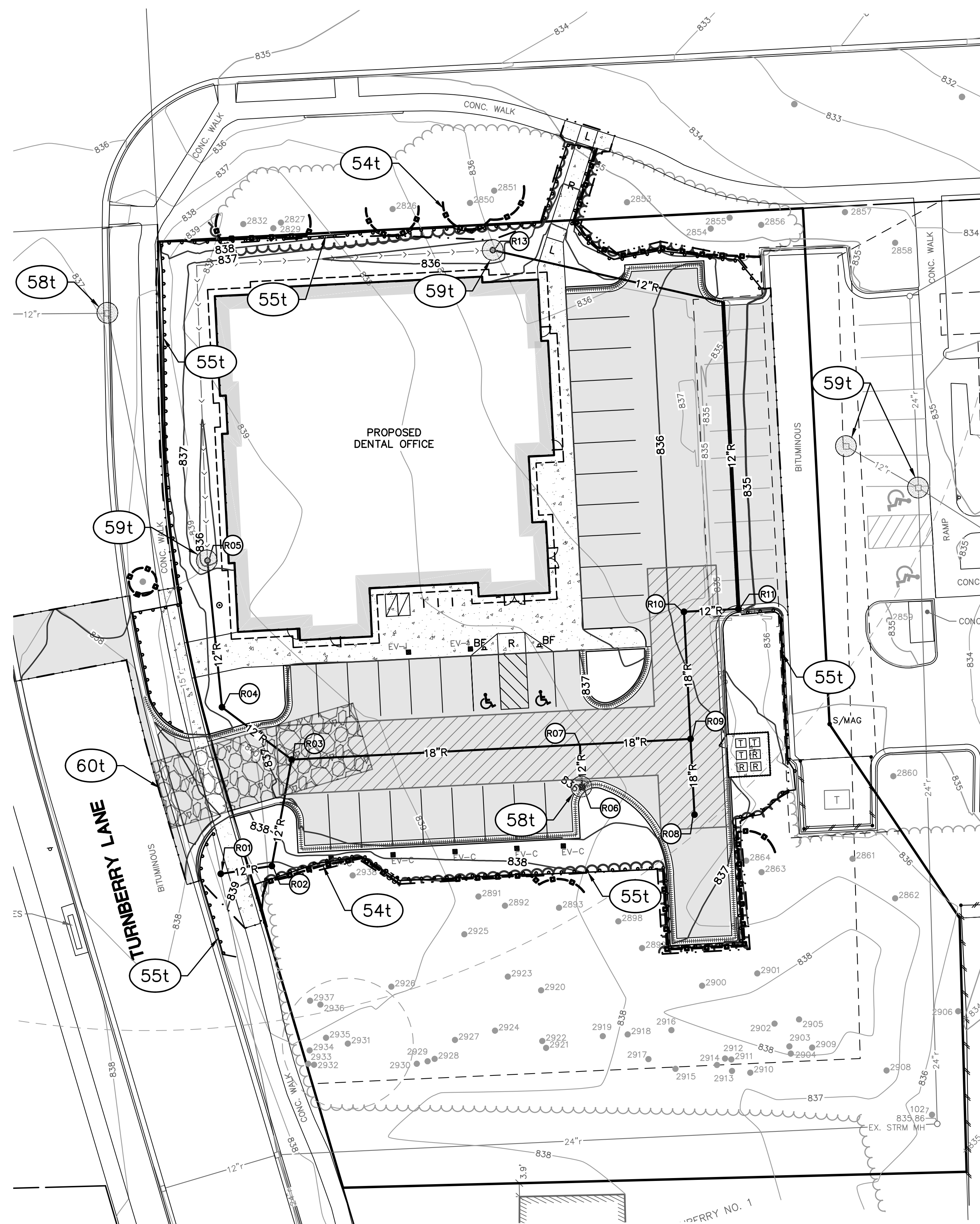
Mitigation Flow
 Mitigation Flow = (Proposed Flow - Existing Flow) * 4(peaking factor) * 1.1(recovery)
 Mitigation Peak Flow = 880 gpd x 4(peaking factor) x 1.1(recovery) =

	3872.0 gpd
	2.7 gpm
	3.0 gpm

LEGEND

U.P.	EXIST. UTILITY POLE	r	EXIST. STORM SEWER
U.P.	EXIST. UTILITY POLE W/ TRANS.	R	PROP. STORM SEWER
GP	EXIST. GUY POLE	□	EXIST. CATCH BASIN OR INLET
GW	GUY WIRE	□	PROP. CATCH BASIN OR INLET
ET	ELEC. TRANSFORMER	○	EXIST. BEEHIVE INLET
AC	EXIST. AC UNIT	○	PROP. BEEHIVE INLET
EG	EXIST. GENERATOR	○	PROP. ROOF DRAIN
OU	EXIST. OVERHEAD UTILITY LINE	RD	END SECTION
LP	EXIST. LIGHT POLE	}	HEAD WALL
LP	PROP. LIGHT POLE	}	CULVERT
BL	PROP. BUILDING LIGHT	ds	EXIST. DOWNSPOUT
TL	EXIST. TELEPHONE LINE	ds	PROP. DOWNSPOUT
TL	PROP. TELEPHONE LINE	s	EXIST. SANITARY SEWER
E	EXIST. ELECTRIC LINE	s	PROP. SANITARY SEWER
E	PROP. ELECTRIC LINE	S	EXIST. CLEANOUT
G	EXIST. GAS LINE	S	PROP. CLEANOUT
G	PROP. GAS LINE	○	TELEPHONE RISER
GV	EXIST. GAS VALVE	○	CABLE TELEVISION RISER
FO	EXIST. FIBER OPTIC LINE	ctv	ELECTRIC METER
FO	PROP. FIBER OPTIC LINE	w	WATER METER
w	EXIST. WATER MAIN	cb	SPRINKLER CONTROL BOX
w	PROP. WATER MAIN	g	GAS METER
H	EXIST. HYDRANT	gm	GAS LINE MARKER
H	PROP. HYDRANT	fiber	FIBER OPTIC MARKER
GVB	EXIST. GATE VALVE IN BOX	scb	PEDESTRIAN CROSSING SIGNAL
GVB	PROP. GATE VALVE IN BOX	scb	TRAFFIC SIGNAL CONTROL BOX
GVB	EXIST. GATE VALVE IN WELL	W	WELL
GVB	PROP. GATE VALVE IN WELL	gfc	EXIST. SPRINKLER HEAD
X	EXIST. CURB STOP & BOX	vcs	EXIST. GAS FILLER CAP
X	PROP. CURB STOP & BOX	vcs	EXIST. VEHICLE CHARGING STATION
RO	REDUCER	vcs	PROP. VEHICLE CHARGING STATION
BO	EXIST. BLOW-OFF		
BO	PROP. BLOW-OFF		
PIV	POST INDICATOR VALVE		
PIV	POST INDICATOR VALVE		
TB	THRUST BLOCK		
FDC	EXIST. FIRE DEPARTMENT CONNECTION		
FDC	PROP. FIRE DEPARTMENT CONNECTION		
KB	PROP. KNOXBOX		

M:\Civil\134_Proj\1342127501_Site Plan\1342127501_Site Plan_MCLC.dwg, 6/29/2023 5:02 PM, Charly A. Richards, 09 SOIL EROSION CONTROL PLAN, MCLC PDF, p.3
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SOIL EROSION CONSTRUCTION NOTES

1. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH THE CURRENT CITY OF ANN ARBOR ORDINANCES, WASHTENAW COUNTY STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND STATE OF MICHIGAN "SOIL EROSION AND SEDIMENTATION CONTROL ACT" (ACT #347).
2. PRIOR TO COMMENCING EARTHMOVING OPERATIONS, THE GRADING CONTRACTOR SHALL INSTALL THE MUD TRACKING MAT, THE SILT FENCE AND TEMPORARY GRAVEL FILTER(S) SHOWN ON THE PLANS.
3. ANY LAWN AREA WHICH WILL HAVE A SLOPE STEEPER THAN 6:1 (6 FT. MEASURED HORIZONTALLY AND 1 FT. MEASURED VERTICALLY) SHALL BE SODDED AND PEGGED OR SEEDED AND MULCHED USING A SOIL EROSION CONTROL FABRIC OR BLANKET. HYDROSEEDING MAY BE USED IN LIEU OF SEED AND MULCH OR SOD WHERE SLOPES ARE FLATTER THAN 6:1.
4. THE ACTUAL LOCATION OF THE MUD TRACKING MATS AND THE GRAVEL FILTERS MAY BE ADJUSTED BY THE CONTRACTOR TO MATCH CONTRACTOR'S OPERATIONS AND FIELD CONDITIONS BUT ONLY IF APPROVED BY THE ENGINEER.
5. ALL DISTURBED AREAS, EVEN WHERE FUTURE PAVEMENT AND BUILDINGS ARE PROPOSED, ARE TO BE REVEGETATED PER COUNTY STANDARDS FOR TEMPORARY SEEDING.
6. 950 CY CUT AND 103 CY FILL. THIS IS AN ESTIMATE ONLY AND IS NOT TO BE USED FOR CONSTRUCTION OR ESTIMATING PURPOSES.
7. THE ESTIMATED COST OF PROTECTING ALL EXPOSED SURFACES FROM EROSION SHOULD CONSTRUCTION CEASE IS \$3,000. (RESPREAD 3" TOPSOIL AND SEEDING)

SOIL EROSION MAINTENANCE REQUIREMENTS

1. ALL STRAW BALE AND/OR SILT FENCE SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. IF AT ANY TIME THE DEPTH OF SILT AND SEDIMENT COMES TO WITHIN 6" OF THE TOP OF ANY STRAW BALE OR WITHIN 12" OF THE TOP OF ANY SILT FENCE, ALL SILT AND SEDIMENT SHALL BE REMOVED TO ORIGINAL GRADE.
2. ALL TEMPORARY GRAVEL FILTERS SHOULD BE ADJUSTED AS TO LOCATION PER ACTUAL FIELD CONDITIONS. THE REMOVAL OF TRAPPED SEDIMENT AND THE CLEANOUT OR REPLACEMENT OF CLOGGED STONE MAY BE NECESSARY AFTER EACH STORM EVENT DURING THE PROJECT.
3. ONLY UPON STABILIZATION OF ALL DISTURBED AREAS MAY THE SILT FENCE, AND TEMPORARY GRAVEL FILTERS BE REMOVED. ALSO, ALL STORM SEWERS MUST BE CLEANED OF ALL SEDIMENT.

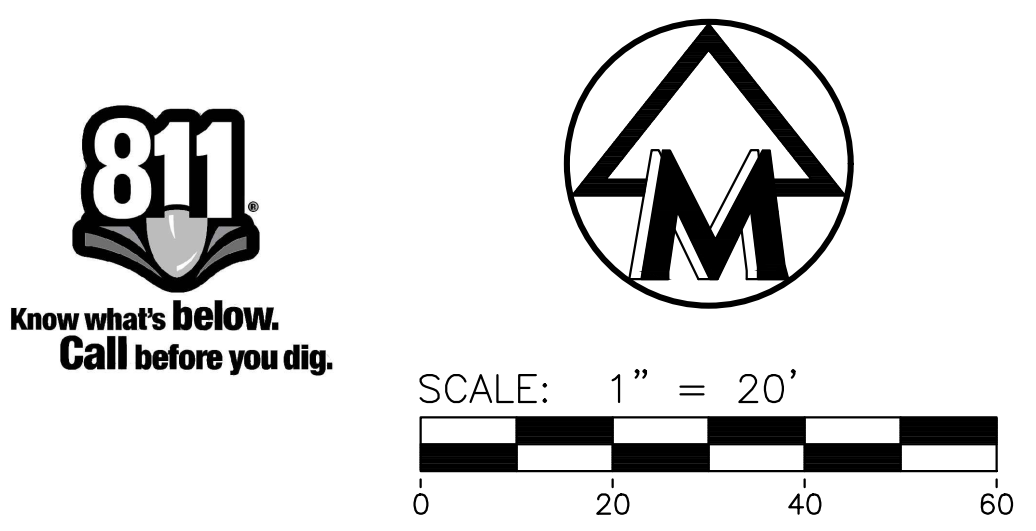
PROGRAM PROPOSAL

THE PROPOSED DEVELOPMENT IS INTENDED FOR DENTAL OFFICE USE. THE OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPLACEMENT, IF NECESSARY, OF ANY AND ALL OF THE PERMANENT SOIL EROSION CONTROL FEATURES ASSOCIATED WITH SEDIMENT AND SOIL EROSION CONTROL WITHIN THE DEVELOPMENT. THE FINANCIAL IMPLICATIONS OF SAID MAINTENANCE WILL BE ADMINISTERED IN THE SAME MANNER AS OTHER MAINTENANCE NEEDS AS DETERMINED BY THE CITY OF ANN ARBOR.

CONSTRUCTION SEQUENCE (FALL 2023 - SUMMER 2024)

1. SESC PRE-GRADING MEETING
2. INVENTORY SITE:
 - IDENTIFY CONSTRUCTION LIMITS.
 - INSTALL CONSTRUCTION FENCING.
 - DEFINE THE SITE ACCESS AND INSTALL MUD TRACKING MATS AS NEEDED.
 - DEFINE THE CONSTRUCTION STORAGE AREAS WITHIN THE GRADING LIMITS AS DEFINED ON THE PLANS.
3. DEMOLITION AND REMOVALS:
 - MAINTAIN EXISTING CONTROLS.
 - INSTALL SILT FENCE.
 - INSTALL STONE FILTERS ON EXISTING INLETS TO REMAIN.
 - TREE AND STUMP REMOVAL.
 - STRUCTURE AND UTILITY REMOVALS.
4. CONSTRUCT DETENTION SYSTEM:
 - MAINTAIN EXISTING CONTROLS.
 - CONSTRUCT THE STORM SEWER.
 - CONSTRUCT THE DETENTION CHAMBERS AND OUTLET (SEE MANUFACTURER'S INSTALLATION NOTES FOR SPECIFIC INSTRUCTIONS). THE DETENTION SYSTEM SHALL BE AS-BUILT VERIFIED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. REMOVAL OF ACCUMULATED SEDIMENT WILL BE REQUIRED PRIOR TO THE ISSUANCE OF CERTIFICATES OF OCCUPANCY.
 - INSTALL INLET FILTERS ON INLETS INTO THE DETENTION SYSTEM AFTER THEY HAVE BEEN BACKFILLED. INSTALL SEDIMENT FILTERS ON COMPLETED CATCH BASINS AND INLETS.
5. MASS GRADING AND UTILITY CONSTRUCTION:
 - MAINTAIN EXISTING CONTROLS.
 - MASS GRADE THE SITE.
 - CONNECT WATER AND SANITARY SERVICE LEADS IN TURNBERRY LANE.
6. PAVEMENT BASE COURSE CONSTRUCTION:
 - MAINTAIN EXISTING CONTROLS.
 - THE AGGREGATE BASE COURSE FOR THE PARKING LOT SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF FOUNDATION PERMIT FOR THE BUILDING.
7. BUILDING FOUNDATION CONSTRUCTION:
 - MAINTAIN EXISTING CONTROLS.
 - EXCAVATE FOR BUILDING FOUNDATION.
 - CONSTRUCT BUILDING FOUNDATION.
8. PAVE DRIVEWAYS AND PARKING LOT:
 - MAINTAIN EXISTING CONTROLS.
 - THE FIRST COURSE OF ASPHALT PAVING AND ALL ASSOCIATED CURBING TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF VERTICAL CONSTRUCTION WITH COMBUSTIBLE MATERIALS.
 - SEED AND MULCH (SEED AND MAT SLOPES GREATER THAN 3:1) DISTURBED AREAS BEHIND CURB WITHIN 5 DAYS OF ESTABLISHING FINAL GRADES.
9. FINE GRADE AND BUILDING CONSTRUCTION:
 - MAINTAIN EXISTING CONTROLS.
 - CONSTRUCT BUILDING.
 - FINE GRADE THE SITE.
 - REMOVE ACCUMULATED SEDIMENT FROM THE DETENTION SYSTEM.
 - SEED AND MULCH (SEED AND MAT SLOPES GREATER THAN 3:1) DISTURBED AREAS BEHIND CURB WITHIN 5 DAYS OF ESTABLISHING FINAL GRADES.
10. CLEAN-UP SITE:
 - SEED AND MULCH OR SOD AREAS THAT HAVE NOT TAKEN.
 - MAINTAIN EXISTING CONTROLS.
11. FOLLOW-UP AFTER THE SITE IS STABILIZED:
 - REMOVE SILT FENCE AND STONE FILTERS.
 - REMOVE CATCH BASIN FILTERS OR SILT SACKS.
 - REMOVE SILT FROM THE STORM SEWER SYSTEM.
 - FINAL REMOVAL OF SEDIMENT FROM THE DETENTION SYSTEM, IF NEEDED.
12. FINALIZE BUILDING CONSTRUCTION:
 - MAINTAIN EXISTING CONTROLS.
 - REMOVE CONSTRUCTION FENCING

NOTE: THE CONSTRUCTION SEQUENCE AND SCHEDULE IS PRELIMINARY AND SUBJECT TO ADJUSTMENT IN RESPONSE TO FORCES BEYOND OUR CONTROL. THESE MAY INCLUDE WEATHER, MATERIAL AVAILABILITY, LABOR UNREST, POLITICAL AND REGULATORY DELAYS, OR OTHER UNFORESEEN CIRCUMSTANCES.



LEGEND

838	EXIST. CONTOUR
836	PROP. CONTOUR
x836.2	EXIST. SPOT ELEVATION
36.60x	PROP. SPOT ELEVATION
-o-U.P.	EXIST. UTILITY POLE
-o-U.P.	EXIST. UTILITY POLE W/ TRANS.
-o-	GUY WIRE
⊠	ELEC. TRANSFORMER
⊞	EXIST. AC UNIT
⊞	EXIST. GENERATOR
OH	EXIST. OVERHEAD UTILITY LINE
*	EXIST. LIGHT POLE
*	PROP. LIGHT POLE
t	EXIST. TELEPHONE LINE
e	EXIST. ELECTRIC LINE
g	EXIST. GAS LINE
g	EXIST. GAS VALVE
f.o.	EXIST. FIBER OPTIC LINE
w	EXIST. WATER MAIN
w	PROP. WATER MAIN
+	EXIST. HYDRANT
+	PROP. HYDRANT
+	EXIST. GATE VALVE IN BOX
+	PROP. GATE VALVE IN BOX
+	EXIST. GATE VALVE IN WELL
+	PROP. GATE VALVE IN WELL
x	EXIST. CURB STOP & BOX
x	PROP. CURB STOP & BOX
+	REDUCER
+	EXIST. BLOW-OFF
+	PROP. BLOW-OFF
+	POST INDICATOR VALVE
+	POST INDICATOR VALVE
+	THRUST BLOCK
+	PROP. KNOXBOX
+	EXIST. FIRE DEPARTMENT CONNECTION
+	PROP. FIRE DEPARTMENT CONNECTION
+	EXIST. STORM SEWER
+	PROP. STORM SEWER
+	EXIST. CATCH BASIN OR INLET
+	PROP. CATCH BASIN OR INLET
+	EXIST. BEEHIVE INLET
+	PROP. BEEHIVE INLET
+	PROP. ROOF DRAIN
+	END SECTION
+	HEAD WALL
+	CULVERT
+	EXIST. DOWNSPOUT
+	PROP. DOWNSPOUT
+	EXIST. SANITARY SEWER
+	PROP. SANITARY SEWER
+	EXIST. CLEANOUT
+	PROP. CLEANOUT
+	C/L OF DITCH
+	DRAINAGE DIRECTION
+	SIGN
+	SINGLE TREE
+	TREE OR BRUSH LIMIT
+	FENCE
+	SILT FENCE
+	LIMITS OF DISTURBANCE
+	CONSTRUCTION FENCE
+	FINISH FLOOR ELEVATION
+	GARAGE FLOOR ELEVATION
+	BASEMENT FINISH FLOOR ELEVATION

SOIL EROSION CONTROL MEASURES

t = temporary p = permanent

54	CONSTRUCTION FENCE OR SNOW FENCE	59	G.B./INLET FILTER
55	GEOTEXTILE SILT FENCE	60	MUD TRACKING MAT
58	CURB INLET FILTER		

MAINTENANCE TASK AND SCHEDULE DURING CONSTRUCTION (by Contractor)

TASKS:	COMPONENTS:					SCHEDULE:	ESTIMATED COST:
	Rain Garden	Detention System Forebay Units	Outlet Control Structures	Catch Basin Inlet Silt Strips	Storm Sewer System		
Inspect for sediment accumulation	X	X	X	X	X	Weekly and after every 1" storm event	\$ 1,000
Removal of sediment accumulation	X	X	X	X	X	As needed and prior to turnover	\$ 4,000
Inspect for floatable and debris	X	X	X	X	X	Quarterly and after every 1" storm event	\$ 500
Cleaning of floatable and debris	X	X	X	X	X	Quarterly, as needed, and at turnover	\$ 1,500
Make adjustments or replacements as determined by pre-turnover inspection	X	X	X	X	X	As needed	\$ 5,000
Total Construction Phase Cost Estimate							\$ 12,000

* And as required for NPDES
** "As Needed" means when sediment has accumulated to one foot depth.

MAINTENANCE TASK AND SCHEDULE AFTER CONSTRUCTION (by Owner)

TASKS:	COMPONENTS:					SCHEDULE:	ESTIMATED COST:
	Rain Garden	Detention System Forebay Units	Outlet Control Structures	Catch Basin Inlet Silt Strips	Storm Sewer System		
Inspect for sediment accumulation	X	X	X	X	X	Yearly and after every 1" storm event	\$ 200
Removal of sediment accumulation	X	X	X	X	X	As needed	\$ 1,200
Inspect for floatable and debris	X	X	X	X	X	Yearly and after every 1" storm event	\$ 100
Cleaning of floatable and debris	X	X	X	X	X	As needed	\$ 200
Total Annual Cost Estimate							\$ 1,700

** "As Needed" means when sediment has accumulated to one foot depth.

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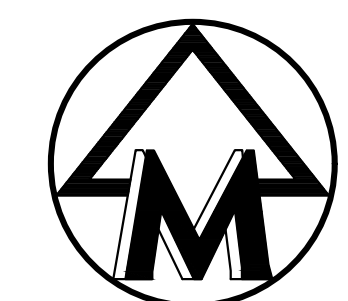
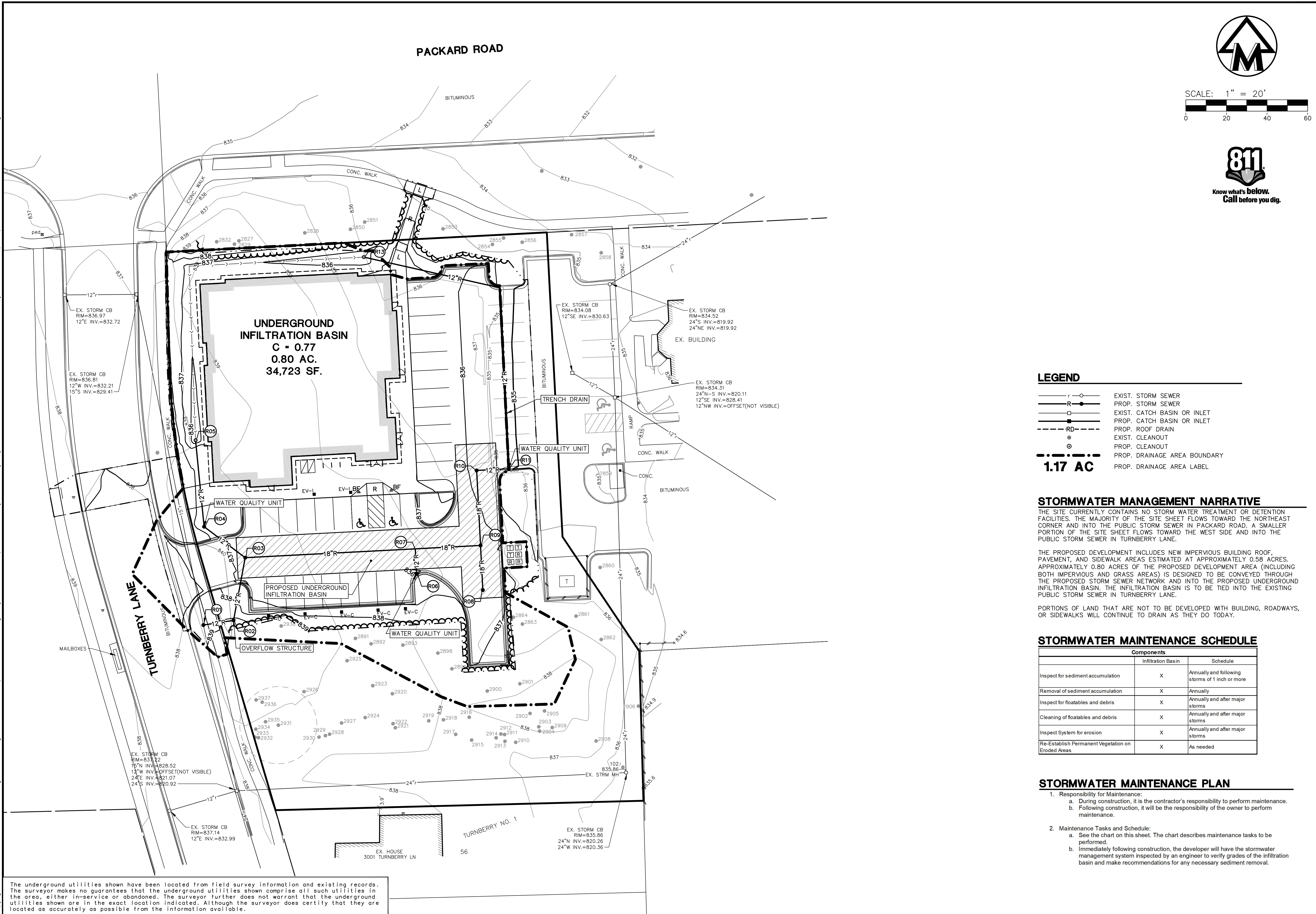
BLOSSOM DENTAL
 SITE PLAN
 SOIL EROSION CONTROL PLAN

09

DATE: 02/28/23
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JOB No. **22127**

M:\Civ\130_Proj\122127D01.dwg, 6/29/2023 5:02 PM, Charly A. Richards, 10 STORMWATER MANAGEMENT PLAN, MLLC PDF.p03
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SCALE: 1" = 20'
0 20 40 60



LEGEND

- EXIST. STORM SEWER
- R— PROP. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- PROP. CATCH BASIN OR INLET
- RD— PROP. ROOF DRAIN
- EXIST. CLEANOUT
- PROP. CLEANOUT
- - - - - PROP. DRAINAGE AREA BOUNDARY
- 1.17 AC PROP. DRAINAGE AREA LABEL

STORMWATER MANAGEMENT NARRATIVE

THE SITE CURRENTLY CONTAINS NO STORM WATER TREATMENT OR DETENTION FACILITIES. THE MAJORITY OF THE SITE SHEET FLOWS TOWARD THE NORTHEAST CORNER AND INTO THE PUBLIC STORM SEWER IN PACKARD ROAD. A SMALLER PORTION OF THE SITE SHEET FLOWS TOWARD THE WEST SIDE AND INTO THE PUBLIC STORM SEWER IN TURNBERRY LANE.

THE PROPOSED DEVELOPMENT INCLUDES NEW IMPERVIOUS BUILDING ROOF, PAVEMENT, AND SIDEWALK AREAS ESTIMATED AT APPROXIMATELY 0.58 ACRES. APPROXIMATELY 0.80 ACRES OF THE PROPOSED DEVELOPMENT AREA (INCLUDING BOTH IMPERVIOUS AND GRASS AREAS) IS DESIGNED TO BE CONVEYED THROUGH THE PROPOSED STORM SEWER NETWORK AND INTO THE PROPOSED UNDERGROUND INFILTRATION BASIN. THE INFILTRATION BASIN IS TO BE TIED INTO THE EXISTING PUBLIC STORM SEWER IN TURNBERRY LANE.

PORTIONS OF LAND THAT ARE NOT TO BE DEVELOPED WITH BUILDING, ROADWAYS, OR SIDEWALKS WILL CONTINUE TO DRAIN AS THEY DO TODAY.

STORMWATER MAINTENANCE SCHEDULE

	Components	
	Infiltration Basin	Schedule
Inspect for sediment accumulation	X	Annually and following storms of 1 inch or more
Removal of sediment accumulation	X	Annually
Inspect for floatables and debris	X	Annually and after major storms
Cleaning of floatables and debris	X	Annually and after major storms
Inspect System for erosion	X	Annually and after major storms
Re-Establish Permanent Vegetation on Eroded Areas	X	As needed

STORMWATER MAINTENANCE PLAN

1. Responsibility for Maintenance:
 - a. During construction, it is the contractor's responsibility to perform maintenance.
 - b. Following construction, it will be the responsibility of the owner to perform maintenance.
2. Maintenance Tasks and Schedule:
 - a. See the chart on this sheet. The chart describes maintenance tasks to be performed.
 - b. Immediately following construction, the developer will have the stormwater management system inspected by an engineer to verify grades of the infiltration basin and make recommendations for any necessary sediment removal.

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 STORMWATER MANAGEMENT PLAN

10

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DETENTION CALCULATIONS

Underground Infiltration Basin Stormwater Calculations

6/15/2023

W1 - Determining Post-Development Cover Types, Areas, Curve Numbers, and Runoff Coefficients

Rational Method Variables table with columns: Cover Type, Soil Type, Area (sq ft), Area (ac), Runoff Coeff. (C), (C) x (Area)

NCRS Variables (Pervious) table with columns: Cover Type, Soil Type, Area (sq ft), Area (ac), Curve Number, (CN) x (Area)

NCRS Variables (Impervious) table with columns: Cover Type, Soil Type, Area (sq ft), Area (ac), Curve Number, (CN) x (Area)

W2 - W2 - First Flush Runoff Calculations (Vff) where A= 0.80 and where C= 0.77

Vff = 1" x 1/12" x 43560 sq ft/ac x A x C = 2,228 cft

W3 - W3 - Pre-Development Bankfull Runoff Calculations (Vbf-pre) A. 2 year / 24 hour storm event: P= 2.35 in

W4 - Pervious Cover Post-Development Bankfull Runoff Calculations (Vbf-per-post) A. 2 year / 24 hour storm event: P= 2.35 in

W5 - W5 - Impervious Cover Post-Development Bankfull Runoff Calculations (Vbf-imp-post) A. 2 year / 24 hour storm event: P= 2.35 in

W6 - W6 - Pervious Cover Post-Development 100-Year Runoff Calculations (V100-per-post) A. 100 year / 24 hour storm event: P= 5.11 in

W7 - W7 - Impervious Cover Post-Development 100-Year Runoff Calculations (V100-imp-post) A. 2 year / 24 hour storm event: P= 5.11 in

W8 - Time of Concentration (Tc-hrs) A. Assume 15-minute minimum time of concentration Tc= 0.25 hr

W9 - Runoff Summary & On-Site Infiltration Requirement A. Summary from Previous Worksheets First Flush Volume (Vff) 2,228 cft

W10 - Detention/Retention Requirement A. Qp = 238.6 cfs (in x sq. mi) 743.63 cfs (in x sq. mi)

W11 - Determine Applicable BMPs and Associated Volume Credits

Table with columns: Proposed BMP, Area (sq ft), Storage Volume (cft) Surface, In Soil, Design Infiltr. Rate (in/hr), Infiltr. Volume in 6-hr Drawdown (cft), Total Volume Reduction (cft)

W12 - Natural Features Inventory There are no natural features located on this site due to it being an existing built out urban site.

Table with columns: Existing Natural Resources, Mapped (Yes, No, N/A), Total Area (ac), Protected Area (ac)

W13 - Site Summary of Infiltration & Detention A. Stormwater Management Summary Min Infiltration Requirement (Vinf) 2,910 cft

Detention Outlet Calculations A. Required Detention Volumes (Reduced by 6-hour infiltration) Storm Event, Req'd Volume, less Infil. Credit, Final Volume

Aggregate Bed table with columns: Elevation (ft), Area (sq ft), Depth (ft), Volume (cft), Cum. Volume (cft)

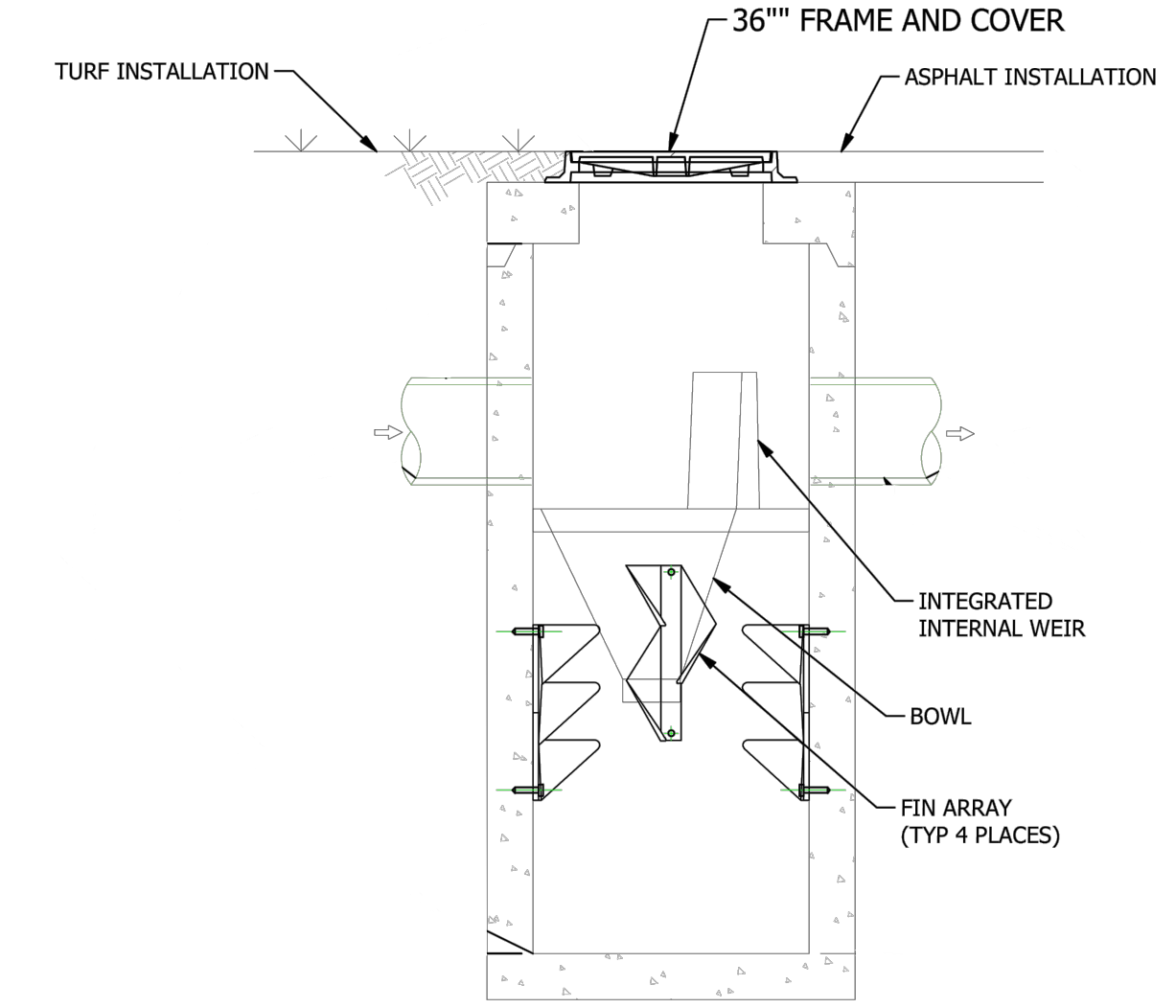
Perf. Pipe table with columns: Elevation (ft), Area (sq ft), Length (ft), Depth (ft), Volume (cft), Cum. Volume (cft)

Total Detention table with columns: Elevation (ft), Area (sq ft), Depth (ft), Volume (cft), Cum. Volume (cft)

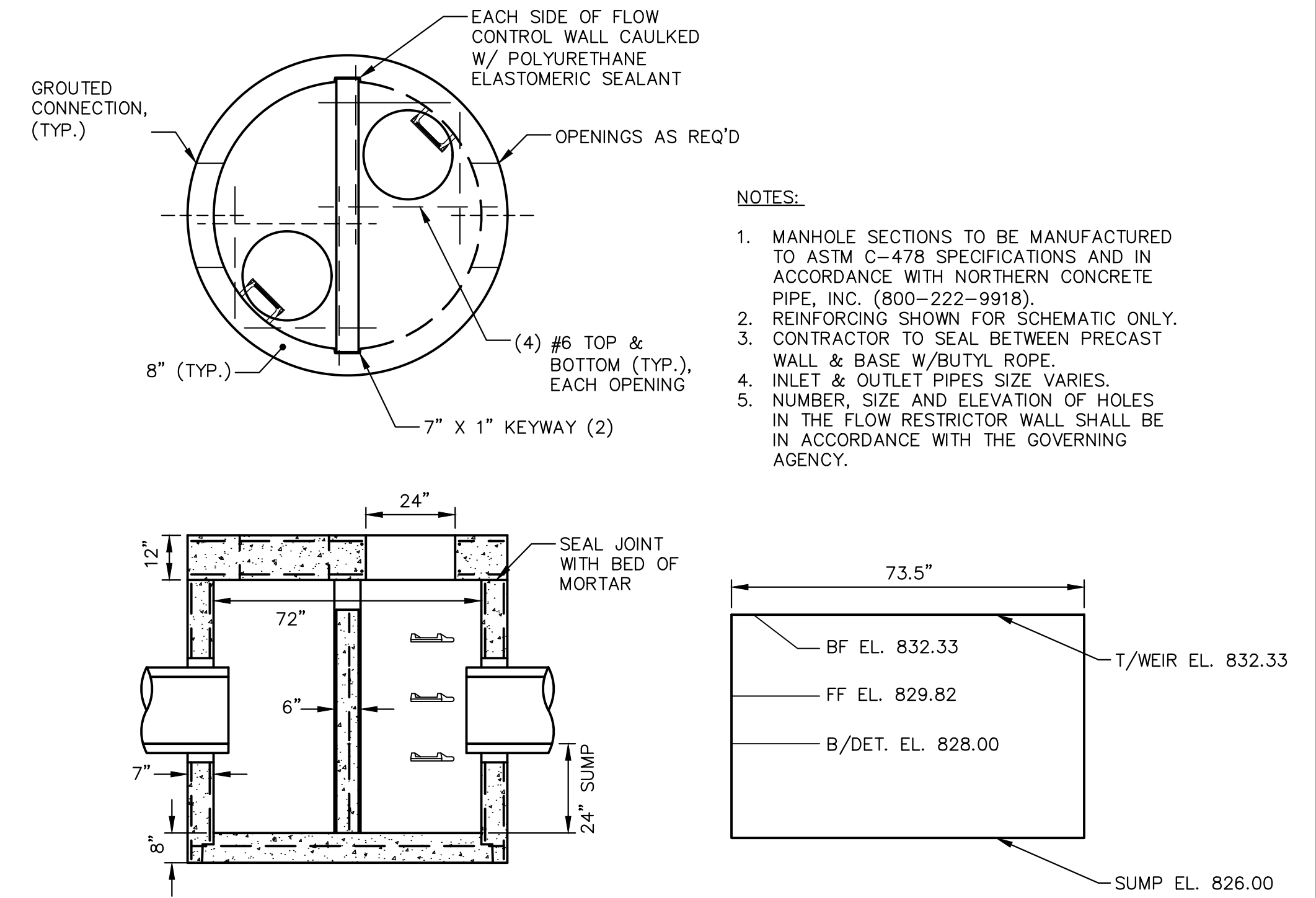
Storage Elevation Calculation First Flush Elevation (Xff)= 830 - 829 = Xff = 829.82 ft

C. Full Infiltration Design Total Storage Volume 12,332 cft Infiltration Area 3720 sq ft

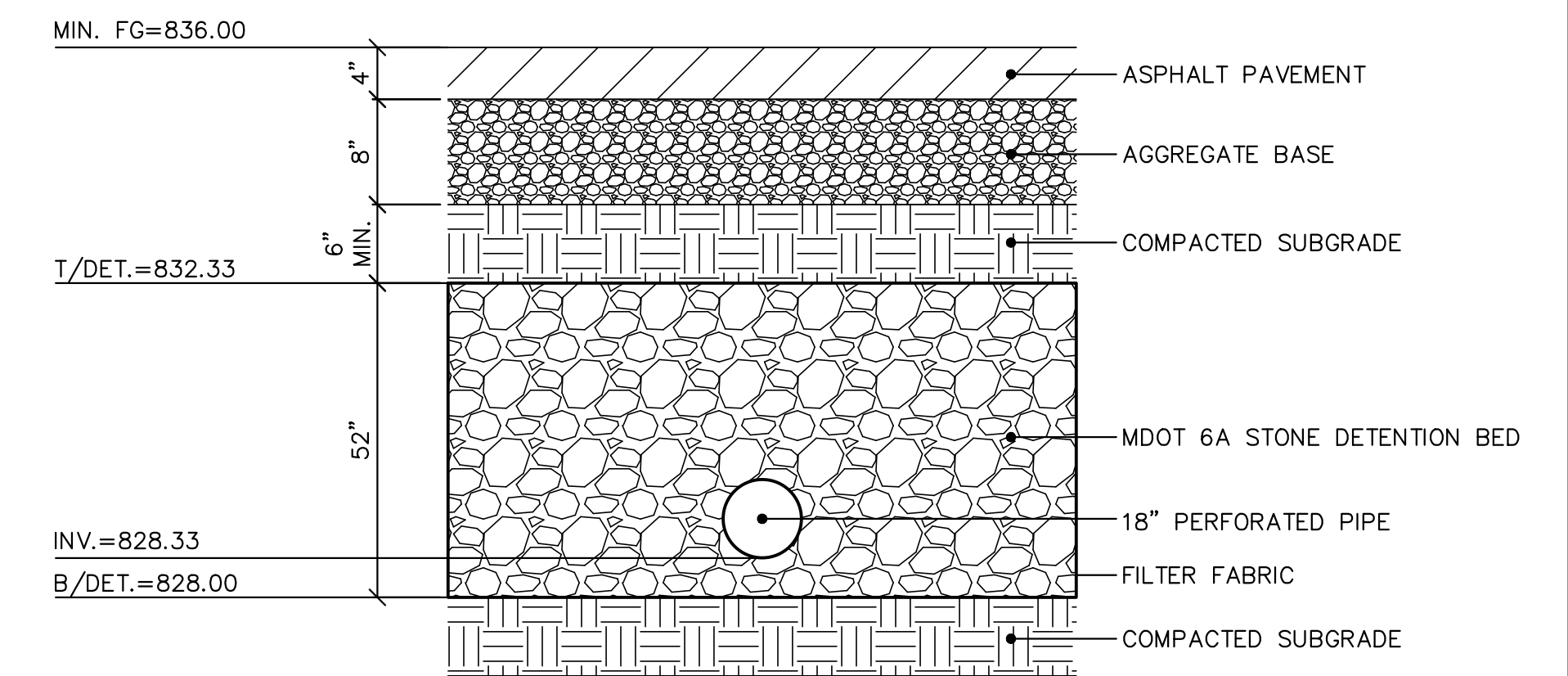
This is less than 48 hours max, so the basin complies with the drawdown requirement.



ADS BARRACUDA WATER QUALITY UNIT SCALE: NTS



OVERFLOW STRUCTURE (R02) SCALE: NTS



UNDERGROUND DETENTION BED CROSS SECTION SCALE: NTS

Midwestern Consulting L.L.C. 3680 PARKWARD ROAD, LLC 1820 CHICORY RIDGE ANN ARBOR, MI 48103 DR. ELIZABETH BARBER, DDS, MS., PC 734-645-6063

MIDWESTERN CONSULTING logo and contact information.

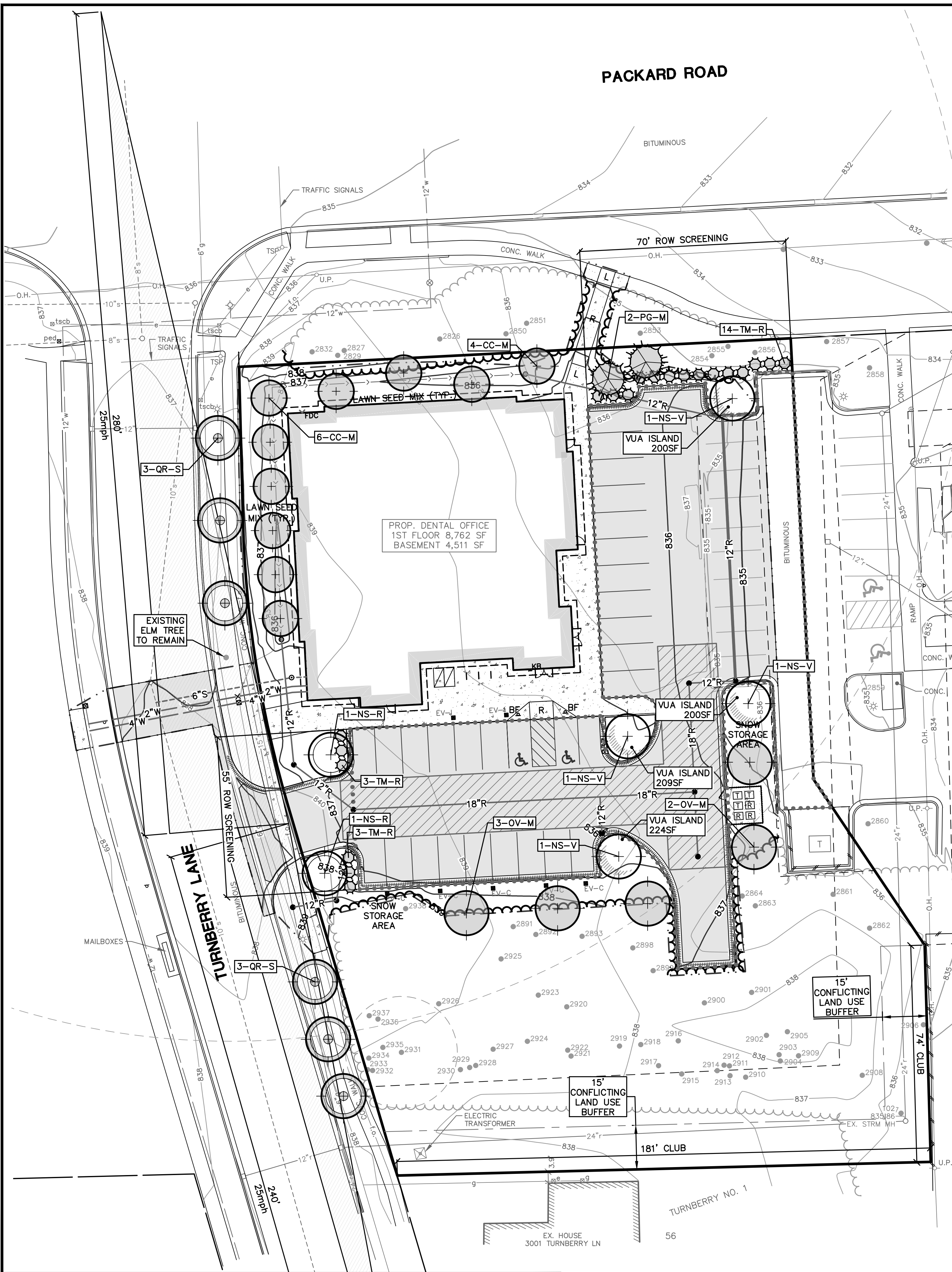
BLOSSOM DENTAL logo and contact information.

BLOSSOM DENTAL SITE PLAN STORMWATER MANAGEMENT DETAILS

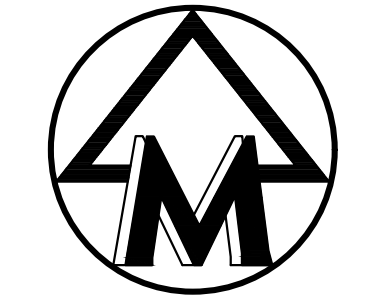
11

Revision table with columns: REV. NO., DATE, DESCRIPTION, REVISED BY, PERMITTED BY

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned.



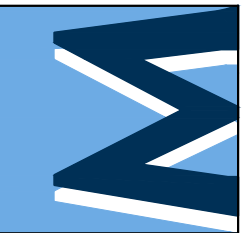
The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.



SCALE: 1" = 20'
 0 20 40 60



Know what's below.
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LANDSCAPE REQUIREMENTS

	Required	Proposed
Right-of-Way Screening	10ft when VUA viewed from ROW 1 tree per 30lf; continuous hedge/screen 30inches in ht 70ft / 30ft = 3 trees and shrubs (Packard) 55ft / 30ft = 2 trees and shrubs (Turnberry)	Packard: 3 existing trees (2854,2855,2856), 14 proposed shrubs Turnberry: 2 proposed trees, 6 proposed shrubs
Vehicle Use Area		
Interior islands	1:20sf ratio for islands 14,859sf / 20 = 743sf islands	833 sf proposed
Bioretention island	if >750sf island required; 50% bioretention	Not applicable - Required interior landscape area less than 750sf
Interior island trees	1 tree per island; 1 tree per 250sf required island area; 743sf / 250sf = 3 trees	4 proposed trees
Snow pile storage	Identify locations on plan	Identified on Landscape Plan
Street Trees		
Street trees	1 tree per 45lf frontage minus curb cuts 188lf / 45lf = 5 trees (Packard) 256lf / 45lf = 6 trees (Turnberry)	Packard: 7 existing trees (2826,2827,2829,2832,2850,2851,2853) Turnberry: 6 proposed trees
Street tree canopy loss fee	total dbh removed - caliper replacement trees x \$244 per inch	Not applicable - No street trees proposed to be removed
Conflicting Land Use Buffer		
When O adjacent to residential properties	15ft wide; 1 tree per 15lf, 50% evergreen; continuous screening 4ft high 74lf / 15lf = 5 trees and screening (east) 181lf / 15lf = 13 trees and screening (south)	Landscape Modification Requested - Existing trees and vegetation satisfy screening requirement; planting required landscaping materials would be more detrimental to existing vegetation and would result in conditions less desirable or effective for landscaping and screening
Tree Mitigation		
Tree Mitigation	50% dbh of LM trees removed 83 inches x 0.5 = 41.5 inches 41.5 inches / 2.5 = 17 trees required	17 trees provided on site
Outdoor Refuse/Recycling		
Outdoor Refuse/Recycling		Screening enclosure around trash/recycle cart area

* When applying for a grading permit, a ROW Street Tree Permit will also be required. There is no cost for this permit. Include the project number on the application. If required, the Canopy Loss Fee will be invoiced through that permit.

LANDSCAPE LEGEND

- PROPOSED CANOPY TREE (INTERIOR VUA)
- PROPOSED CANOPY TREE (RIGHT-OF-WAY SCREEN)
- PROPOSED CANOPY TREE (STREET TREE)
- PROPOSED CANOPY TREE (MITIGATION)
- PROPOSED EVERGREEN TREE (MITIGATION)
- PROPOSED DECIDUOUS SHRUBS
- PROPOSED EVERGREEN SHRUBS
- EXISTING TREE TO REMAIN
- PROPOSED LAWN AREA
- PROPOSED EDGING
- VEHICULAR USE AREA LIMITS
- CONFLICTING LAND USE BUFFER
- SIGHT TRIANGLE

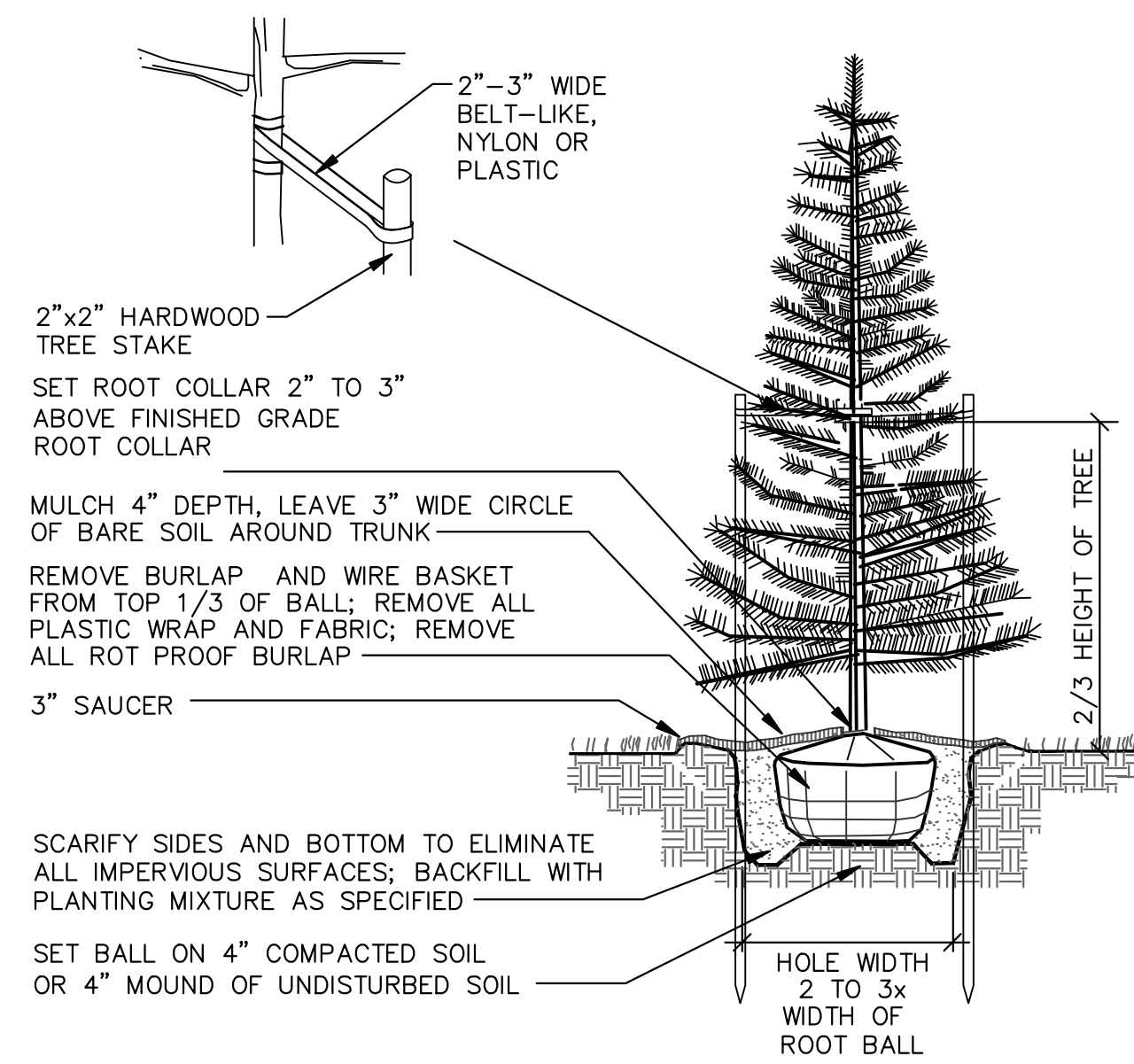
PLANT SCHEDULE

Total	Street (-S)	VUA (-V)	ROW (-R)	Mitigation (-M)	Symbol	Botanical Name	Common Name	Size	Spacing	Root	Remarks
Trees											
10				10	CC	Cercis canadensis	Redbud	2.5" cal.	15' o.c.	B&B	
6		4	2		NS	Nyssa sylvatica	Black Gum	2.5" cal.	15' o.c.	B&B	Single Stem
5				5	OV	Ostrya virginiana	Hop Hornbeam	2.5" cal.	15' o.c.	B&B	
2				2	PG	Picea glauca	White Spruce	8" ht.	15' o.c.	B&B	Full
6	6				QR	Quercus robur x alba 'Crimchmidt'	Crimson Spire Oak	2.5" cal.	10' o.c.	B&B	fastigate
29	6	4	2	17	Total						
Shrubs											
20				20	TM	Taxus x media 'Densiformis'	Densiformis yew	18-24" ht	5' o.c.	#S cont.	

ALL SPECIES DEVIATIONS MUST BE APPROVED IN WRITING BY THE CITY OF ANN ARBOR PRIOR TO INSTALLATION

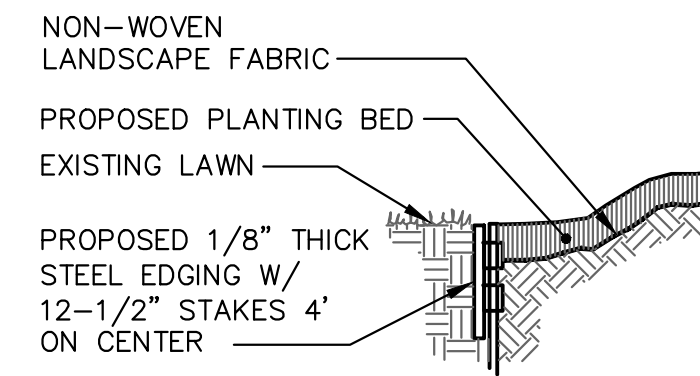
M:\Civ\132_P\01\22127\Site Plan\22127L01.dwg, 6/29/2023 5:02 PM, Charly A. Richards, 13 LANDSCAPE NOTES AND DETAILS, MCLLC PDF, p.3
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NOTE: A: STAKING IS ONLY REQUIRED IF THE SITE IS WINDY OR THE TREES ARE GREATER THAN 3" CALIPER. IF TREES MUST BE STAKED, THE STAKED SHALL BE REMOVED IN ONE YEAR.

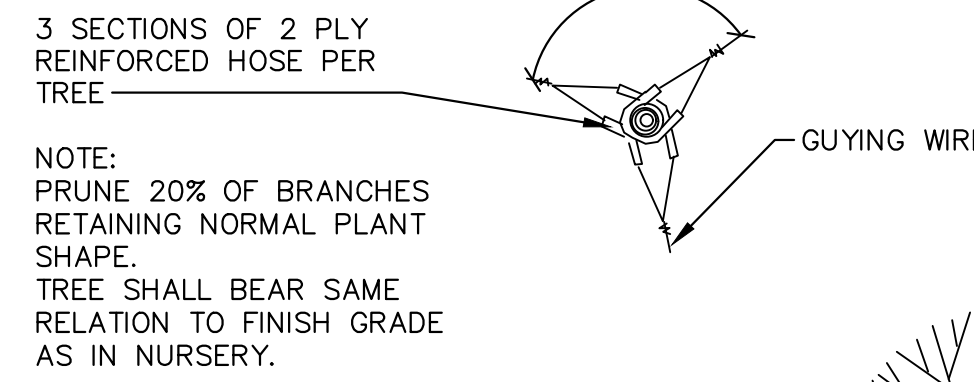


EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

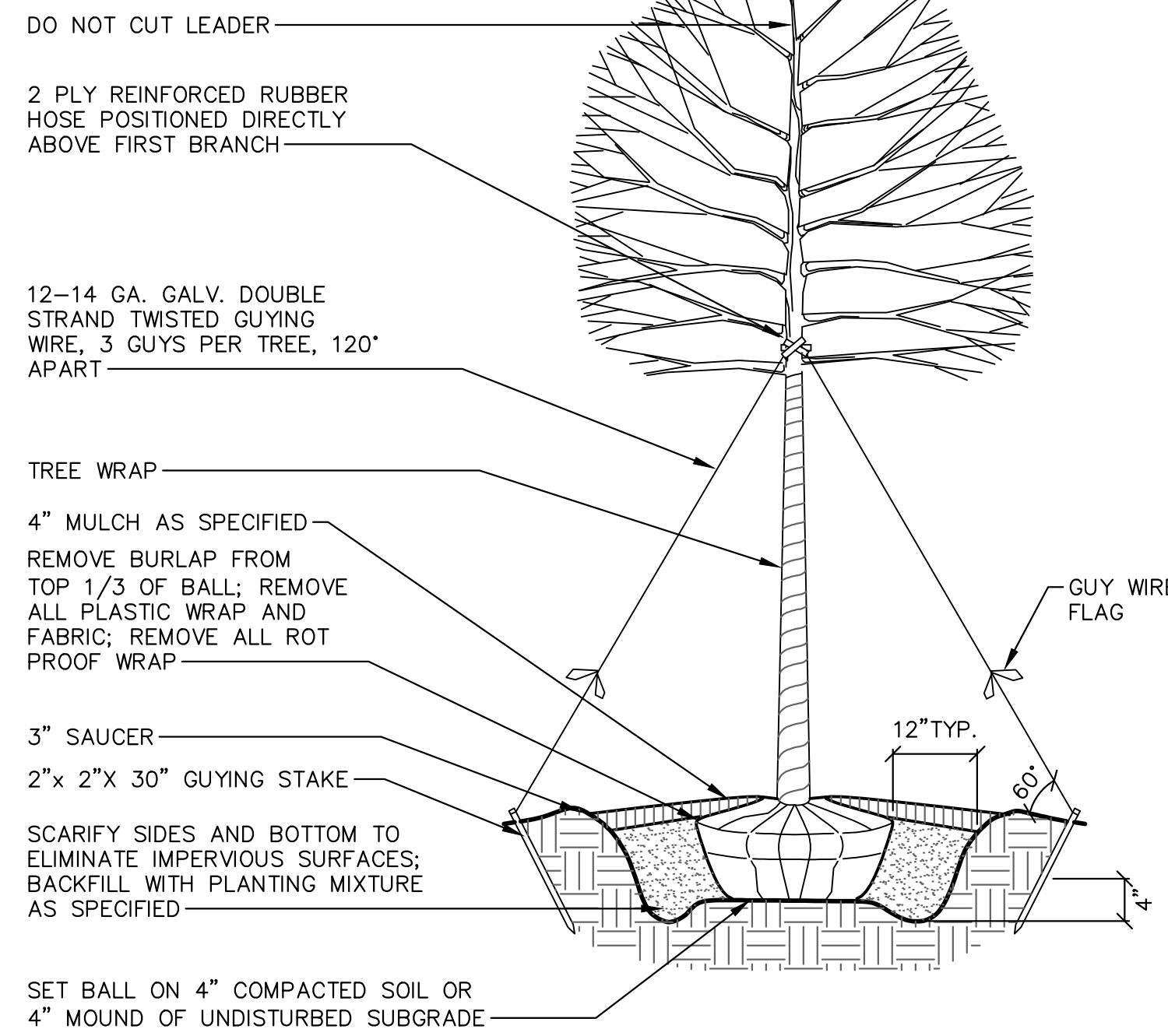
NOTE: MATERIALS TO BE FLUSH WITH THE TOP OF EDGING



STEEL EDGING DETAIL
NOT TO SCALE

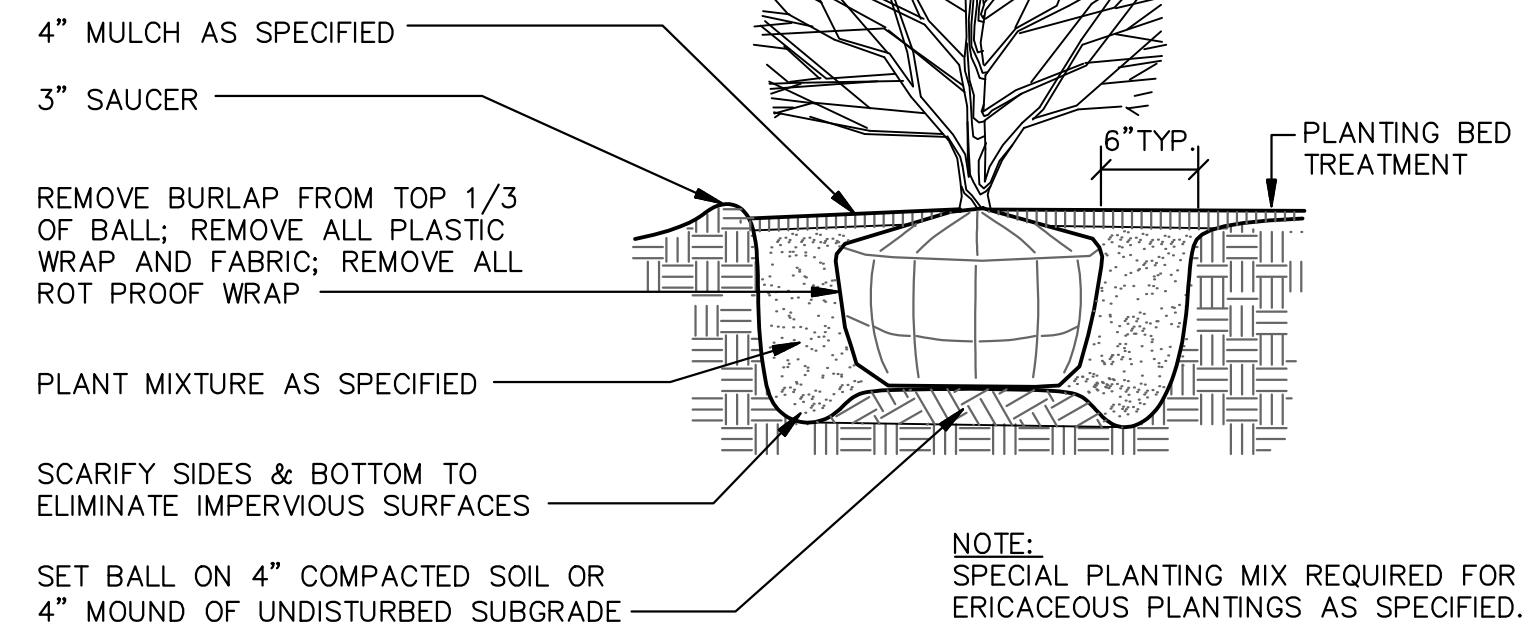


NOTE: PRUNE 20% OF BRANCHES RETAINING NORMAL PLANT SHAPE. TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY.



DECIDUOUS TREE - PLANTING DETAIL
NOT TO SCALE

DO NOT TRIM EVERGREENS
SHRUB SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY
DO NOT PLANT SHRUBS TO WITHIN 42" OF TREE TRUNKS IN SHRUB BEDS

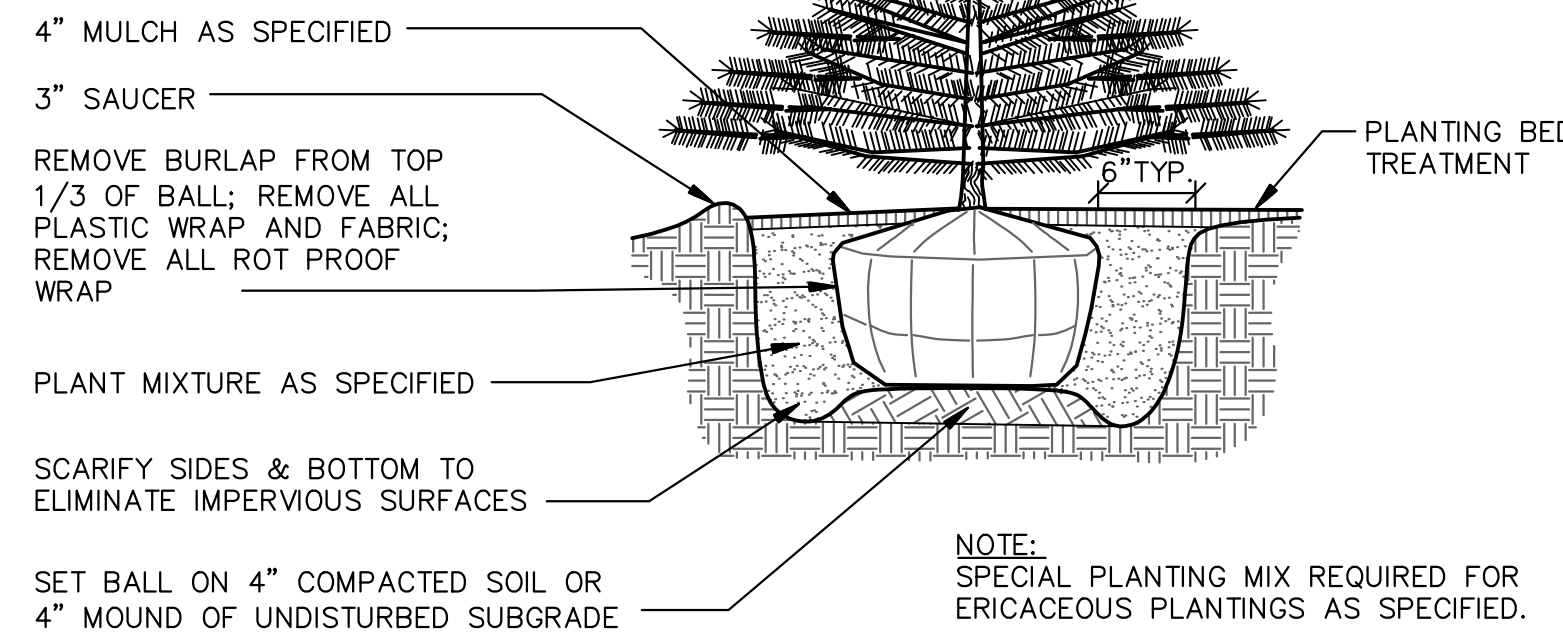


SHRUB PLANTING DETAIL
NOT TO SCALE

NOTE: PRUNE 20% OF BRANCHES AND FOLIAGE RETAINING NORMAL PLANT SHAPE.

SHAPE DO NOT TRIM EVERGREENS
SHRUB SHALL BEAR SAME RELATION TO FINISH GRADE AS IN NURSERY

DO NOT PLANT SHRUBS TO WITHIN 42" OF TREE TRUNKS IN SHRUB BEDS



EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE NOTES

- For any plant quantity discrepancies between the plan view and the plant schedules, the plant schedule shall take precedence.
- Plant materials shall be selected and installed in accordance with standards established by the City of Ann Arbor.
- In-ground automatic irrigation shall be provided for all landscaped areas or water outlets shall be provided within 150 feet of all required plantings.
- All diseased, damaged or dead material shown on the site plan as proposed plantings shall be replaced by the end of the following growing season.
- Restore disturbed areas with a minimum of four (4) inches of topsoil and then seed/fertilize/mulch.
- All disturbed areas not to be seeded with seed mixes identified on the Landscape Plan shall be lawn areas. Fertilizer for the initial installation of lawns shall provide not less than one (1) pound of actual nitrogen per 1,000 sq ft of lawn area and shall contain not less than two percent (2%) potassium and four percent (4%) phosphoric acid.
Lawn (turfgrass) seed mix shall consist of:
15% Rugby Kentucky Bluegrass
10% Park Kentucky Bluegrass
40% Ruby Creeping Red Fescue
15% Pennliffe Perennial Ryegrass
20% Scaldis Hard Fescue
Seed shall be applied at a rate of five pounds (5 lbs) per 1000 sq ft. Mulch within 24 hours with two (2) tons of straw per acre, or 71 bales of excelsior mulch per acre. Anchor straw mulch with spray coating of adhesive material applied at the rate of 150 gals. / acre.
- After the first growing season, only fertilizers that contain NO phosphorus shall be used on the site.
- All seeded areas with slopes less than 1:3 (one vertical foot for every 3 horizontal feet) shall be mulched with straw mulch at the rate of two (2) bales per 1,000 square feet. All seeded areas with slopes greater than 1:3 shall be seeded and biodegradable erosion control blanket North American Green SCL150, or equivalent, shall be applied with biodegradable stakes.
- Deciduous plants shall be planted between March 1 and May 15 and from October 1 until the prepared soil becomes frozen. Evergreen plants shall be planted between March 1 and June 1 and from August 15 to September 15.
- All planting beds are to receive four (4) inches of shredded hardwood bark mulch.
- All trees to be located a minimum of 10 feet from public utilities.
- All single trunk, deciduous trees shall have a straight and a symmetrical crown with a central leader. One sided trees or those with thin or open crowns shall not be accepted.
- All evergreen trees shall be branched fully to the ground, symmetrical in shape and have not been sheared in the last three (3) growing seasons.
- All compacted subgrade soils in proposed landscape areas shall be tilled to a minimum 12-inch depth prior to placement of topsoil, geotextile fabric, or other planting media as specified.
- Proposed trees will be planted a minimum of 15 feet apart.
- Planting Soil: Existing, in-place or stockpiled topsoil. Supplement with imported topsoil as needed. Verify suitability of existing surface soil to produce viable planting soil. Final approval of soil composition shall be provided by the landscape contractor. Remove stones, roots, plants, sod, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth. Mix surface soil with the following soil amendments to produce planting soil:
a. Ratio of Loose Compost to Topsoil by Volume: 1:4.
b. Weight of Lime per 1000 Sq. Ft.: Amend with lime only on recommendation of soil test to adjust soil pH.
c. Weight of Sulfur or Aluminum Sulfate per 1,000 Sq. Ft.: Amend with sulfur or aluminum sulfate only on recommendation of soil test to adjust soil pH.
d. Volume of Sand: Amend with sand only on recommendation of Landscape Architect to adjust soil texture.
e. Weight of Slow-Release Fertilizer per 1,000 Sq. Ft.: Amend with fertilizer only on recommendation of soil test to adjust soil fertility.
- Snow storage areas are located along the edges and corners of parking areas as shown on the plan.
- During the establishment period for the installed deciduous mitigation trees (1-2 years as to be determined by certified arborist):
a. The trunk of young trees shall be wrapped in late autumn and wrap shall be removed in early spring
b. Burlap screening or wrapping shall be installed on the southwest and windward sides from late autumn to early spring.
c. Trees shall be watered in spring and autumn and during dry conditions at a frequency determined by certified arborist.
d. Mulching around trees shall be maintained at a depth of 2 to 3 inches.
- All landscaping or other screening material within a sight triangle shall be no greater than 30 inches tall, and all trees within a sight triangle shall have all branches trimmed to provide clear vision for a vertical height of 8 feet above the roadway surface. Evergreen trees shall not be permitted within sight triangles.
- All species deviations must be approved in writing by the City of Ann Arbor prior to installation.
- The City of Ann Arbor has adopted an ordinance limiting phosphorus in fertilizer to assist in compliance with the State mandated TMDL for phosphorus within the Middle Huron River basin. Applications of fertilizer beyond the initial topsoil and seeding shall be a fertilizer with no phosphorus.

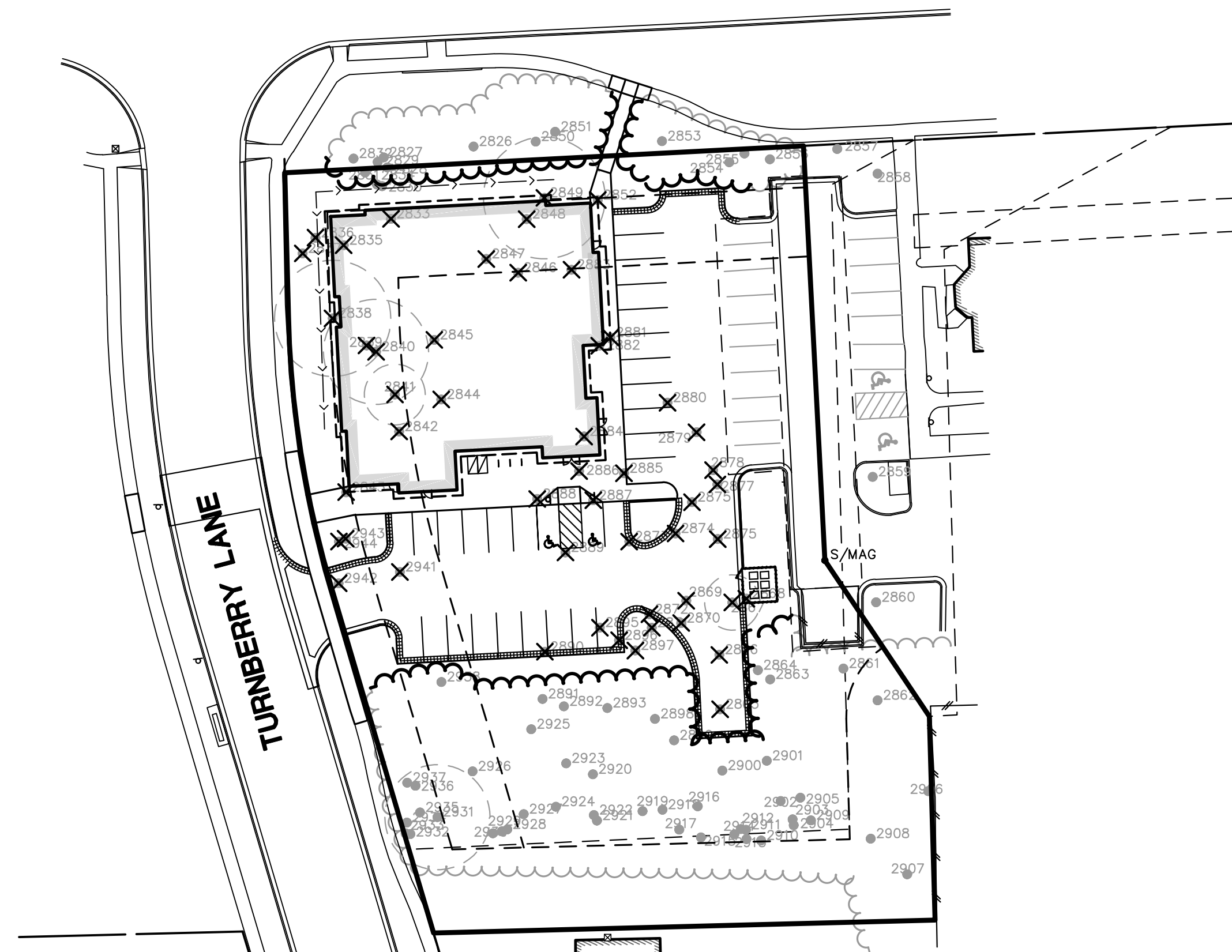
Maintenance:

- Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.
- Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.
- Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.
- Contractor shall warranty all plant material and trees to remain alive and be in healthy, vigorous and like new condition for the specified period from installation to Substantial Completion. The entire Landscaping Project, including but not limited to: plants (perennials), trees, shrubs, mulches, shrubs, etc are to be under Warranty for One Year after Substantial Completion date of the Project. At the end of the specified One Year Warranty period the Owner's Representative will inspect plant material for compliance. Contractor shall replace, in accordance with the drawings and specifications, all plants, trees, shrubs, etc or as determined by the Owner's Representative, are in an unhealthy or unsightly condition. Warranty shall not include damage or loss of plants, trees, and shrubs caused by fires, floods, freezing rains, lightning storms, or winds over 75 miles per hour, acts of vandalism or negligence on the part of the owner, or any other incident beyond landscape contractor's control.
- Watering: The contractor shall keep seed moist for optimum plant growth (1" of total water per week, including rainfall) until the grass and/or flowers are four (4) inches high typical.
- Protection from traffic and erosion in newly seeded areas is the responsibility of the contractor. Safety fences and/or silt fence with appropriate signage may be used at the contractor's expense until the grasses and flowers are fully established.
- Erosion shall be repaired by the contractor.
- Turf installations shall meet the following criteria as determined by Owner:
a. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
b. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.
c. Use specified materials to reestablish turf that does not comply with requirements and continue maintenance until turf is satisfactory.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

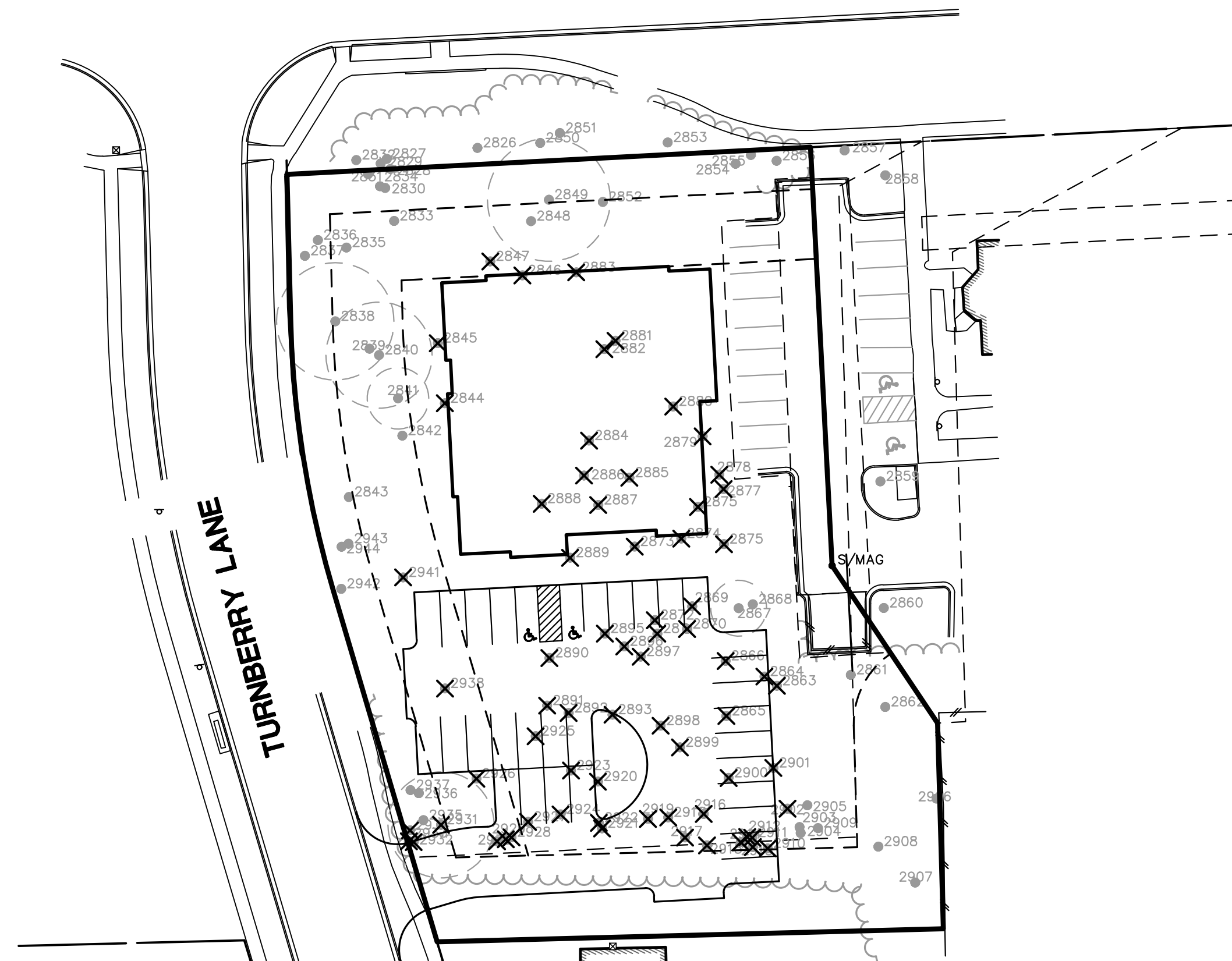
JOB No. 22127	DATE: 02/28/23	SHEET 13 OF 22	REV. DATE: 05/24/23	ADD: CAR	ENG: TPH	PK: CMB	TECH: HJT	/ZZ1ZLFD01
	REVISED PER CITY REVIEW							
<p style="text-align: center;">BLOSSOM DENTAL SITE PLAN LANDSCAPE NOTES AND DETAILS</p>			<p style="text-align: center;">MIDWESTERN CONSULTING 3855 Plaza Drive Ann Arbor, Michigan 48108 (734) 995-0200 • www.midwesternconsulting.com Land Development • Land Survey • Institutional • Municipal Wireless Communications • Transportation • Landfill Services</p>					
<p style="text-align: center;">13</p>			<p>CLIENT: 3680 PACKARD ROAD, LLC 1820 CHICKORY RIDGE ANN ARBOR, MI 48103 DR. ELIZABETH BARBER, DDS, MS, PC 734-645-6063</p>					

M:\Civ\132_P\1322127\Site Plan\2127R01.dwg, 6/29/2023 5:02 PM, Charly A. Richards, 14 NATURAL FEATURES AND ALTERNATIVE ANALYSIS PLAN, MCLLC PDF, pc3
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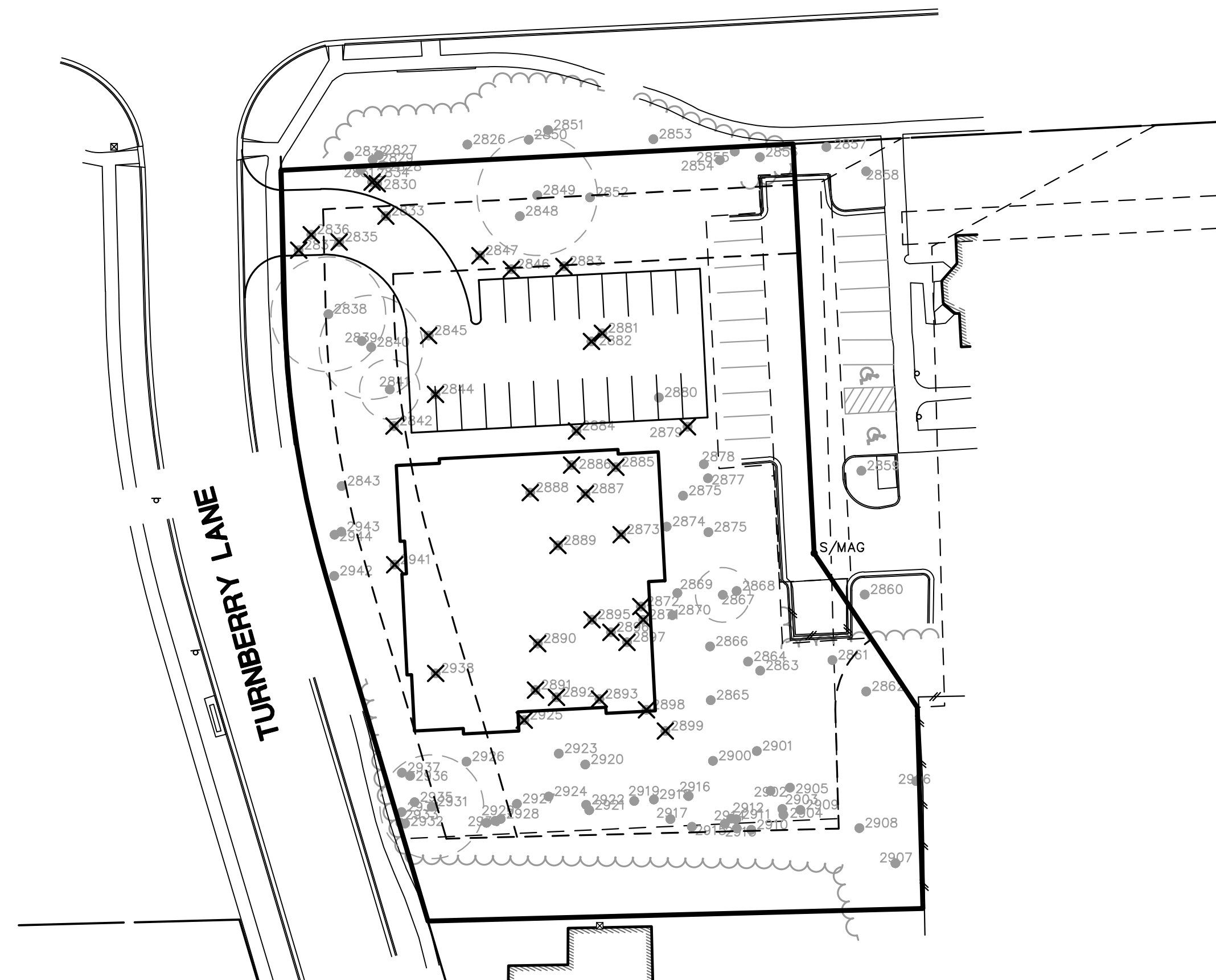
- PROS:
- BUILDING PLACEMENT TO MEET REQUIRED FRONT SETBACKS
 - GOOD PEDESTRIAN ACCESS TO BUILDING
 - ACCESS DRIVE OPTIMAL DISTANCE FROM INTERSECTION AND RESIDENTIAL PROPERTIES
 - PARKING BEHIND BUILDING (NO PARKING IN FRONT YARD)
 - UTILIZES EXISTING PARKING EASEMENT WITH PROPERTY TO EAST
 - MAINTAINS LARGE NATURAL VEGETATION BUFFER TO RESIDENTIAL PROPERTIES TO SOUTH AND SOUTHEAST
 - ADEQUATE EMERGENCY VEHICLE AND SOLID WASTE ACCESS
 - PRESERVES 1 LANDMARK TREE
- CONS:
- REMOVAL OF 5 LANDMARK TREES

PROPOSED SITE LAYOUT - NATURAL FEATURES PLAN



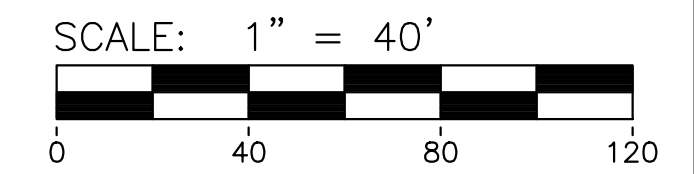
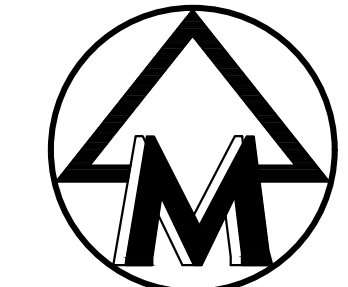
- PROS:
- PARKING BEHIND BUILDING (NO PARKING IN FRONT YARD)
 - UTILIZES EXISTING PARKING EASEMENT WITH PROPERTY TO EAST
 - PRESERVES 5 LANDMARK TREES
- CONS:
- BUILDING NON-CONFORMING TO REQUIRED FRONT SETBACKS
 - ACCESS DRIVEWAY AND PARKING LOT IMMEDIATELY ADJACENT TO RESIDENTIAL PROPERTY TO SOUTH
 - POOR EMERGENCY VEHICLE AND SOLID WASTE ACCESS
 - REMOVAL OF 1 LANDMARK TREE
 - REMOVAL OF NEARLY ALL VEGETATION ON SITE

ALTERNATIVE SITE LAYOUT #1



- PROS:
- MAINTAINS MODERATE NATURAL VEGETATION BUFFER TO RESIDENTIAL PROPERTIES TO SOUTH AND SOUTHEAST
 - PRESERVES ALL 6 LANDMARK TREES
- CONS:
- BUILDING NON-CONFORMING TO REQUIRED FRONT SETBACK ON PACKARD ROAD
 - POOR PEDESTRIAN ACCESS TO BUILDING
 - ACCESS DRIVE TOO CLOSE TO INTERSECTION
 - PARKING IN FRONT YARD ALONG PACKARD ROAD
 - DOES NOT UTILIZE EXISTING PARKING EASEMENT WITH PROPERTY TO EAST
 - POOR EMERGENCY VEHICLE AND SOLID WASTE ACCESS

ALTERNATIVE SITE LAYOUT #2



Know what's below.
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NATURAL FEATURES SUMMARY

- NO KNOWN ENDANGERED SPECIES HABITATS EXIST ON THIS SITE.
- PER THE ALTA/NSPS LAND TITLE SURVEY: THIS PARCEL IS LOCATED IN ZONE X OF THE FLOOD INSURANCE RATE MAP NUMBER 26161C0406E WHICH BEARS AN EFFECTIVE DATE OF 4/3/2012 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.
- NO WOODLANDS ARE LOCATED ON THIS SITE.
- NO STREET TREES WILL BE REMOVED AS PART OF THIS PROJECT.
- THERE ARE SIX (6) LANDMARK TREES LOCATED THROUGHOUT THE SITE. FIVE (5) LANDMARK TREES WILL BE REMOVED AS PART OF THE PROPOSED PROJECT. CONSTRUCTION FENCE WILL BE INSTALLED AT THE LIMITS OF THE CRITICAL ROOT ZONE FOR ALL LANDMARK TREES TO REMAIN.
- NO STEEP SLOPES EXIST ON THIS SITE.
- NO EXISTING OR PROPOSED WATERCOURSES ARE LOCATED ON THIS SITE.
- NO IDENTIFIED WETLANDS EXIST ON THIS SITE.

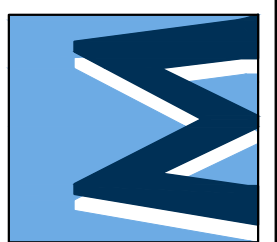
TREE MITIGATION SUMMARY

MITIGATION IS PROVIDED ON-SITE; SEE LANDSCAPE PLAN FOR ADDITIONAL MITIGATION DETAILS.

LEGEND

- 838 (solid line) EXIST. CONTOUR
- 838 (dashed line) PROP. CONTOUR
- o- U.P. EXIST. UTILITY POLE
- GUY WIRE
- OH EXIST. OVERHEAD UTILITY LINE
- * PROP. LIGHT POLE
- FENCE
- SILTFENCE
- LIMITS OF DISTURBANCE
- CONSTRUCTION FENCE
- EXISTING TREE
- EXISTING LANDMARK TREE AND CRITICAL ROOT ZONE
- X TREE TO BE REMOVED

MIDWESTERN CONSULTING
3845 Plaza Drive Ann Arbor, Michigan 48108
(734) 995-0200 • www.midwesternconsulting.com
Land Development • Land Survey • Institutional • Municipal
Wireless Communications • Transportation • Landfill Services

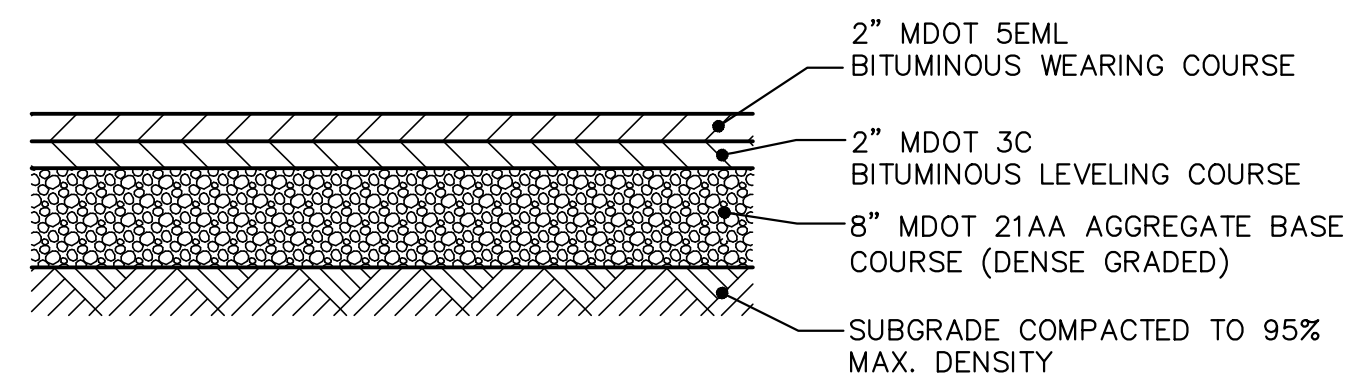


CLIENT
3680 PACKARD ROAD, LLC
1820 CHICKORY RIDGE
ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

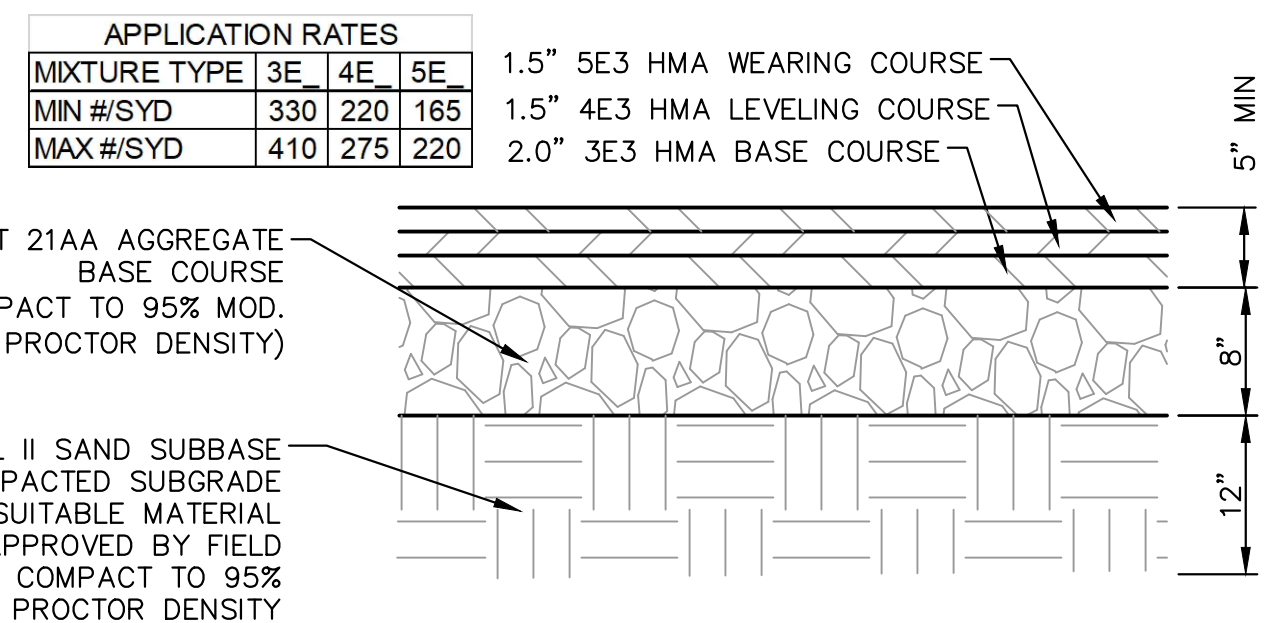
BLOSSOM DENTAL
SITE PLAN
NATURAL FEATURES AND ALTERNATIVE ANALYSIS PLAN

14

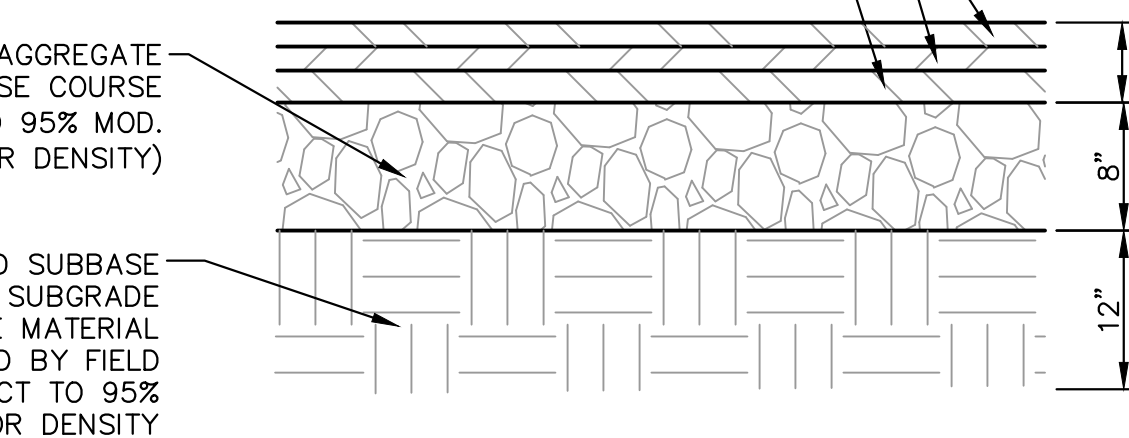
JOB No.	22127
DATE:	02/28/23
SHEET	14 OF 22
REV. DATE	05/24/23
REVISED PER CITY REVIEW	CADD: CAR
REVISED PER CITY REVIEW	ENG: TPH
REVISED PER CITY REVIEW	ENG: CMB
REVISED PER CITY REVIEW	TECH: HJT
REVISED PER CITY REVIEW	/ZZJZRN01



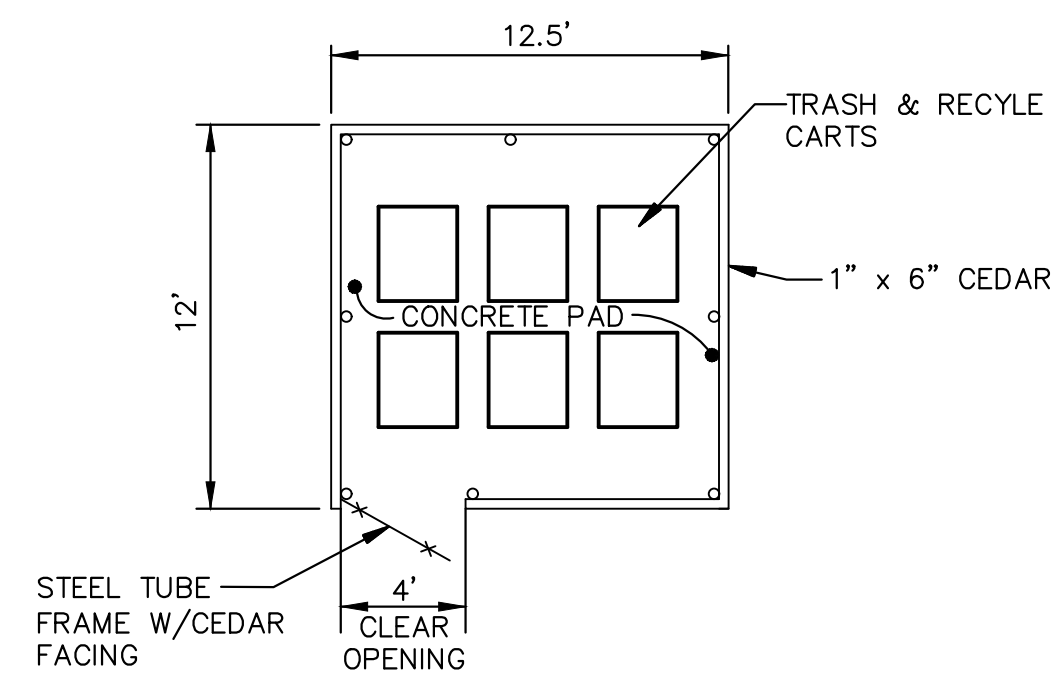
TYPICAL PARKING LOT CROSS SECTION DETAIL
NOT TO SCALE
MINIMUM REQUIREMENT



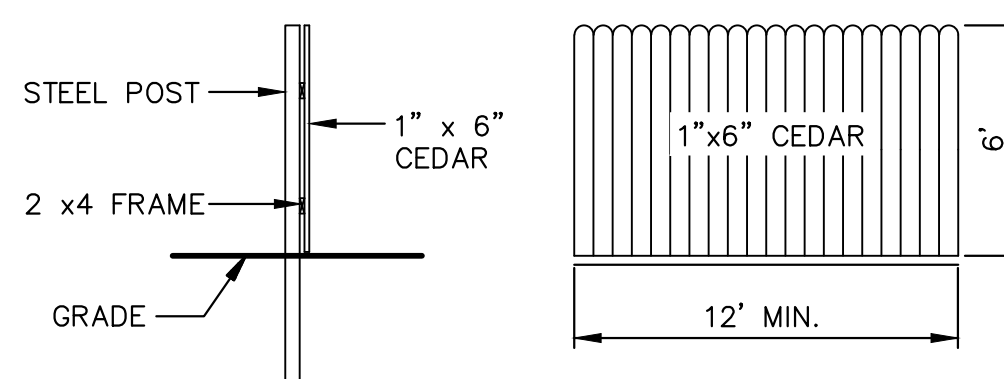
APPLICATION RATES			
MIXTURE TYPE	3E	4E	5E
MIN #/SYD	330	220	165
MAX #/SYD	410	275	220



BITUMINOUS PAVEMENT - PUBLIC R.O.W.
NOT TO SCALE



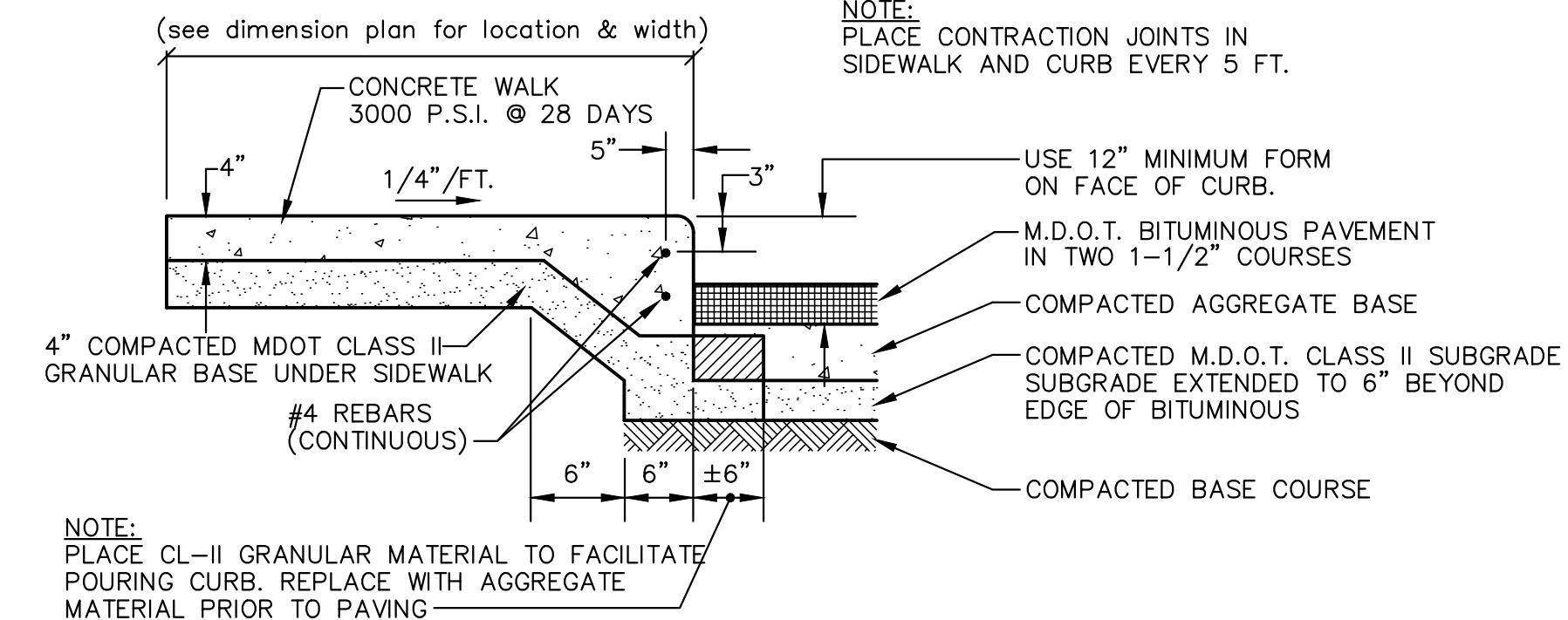
PLAN VIEW



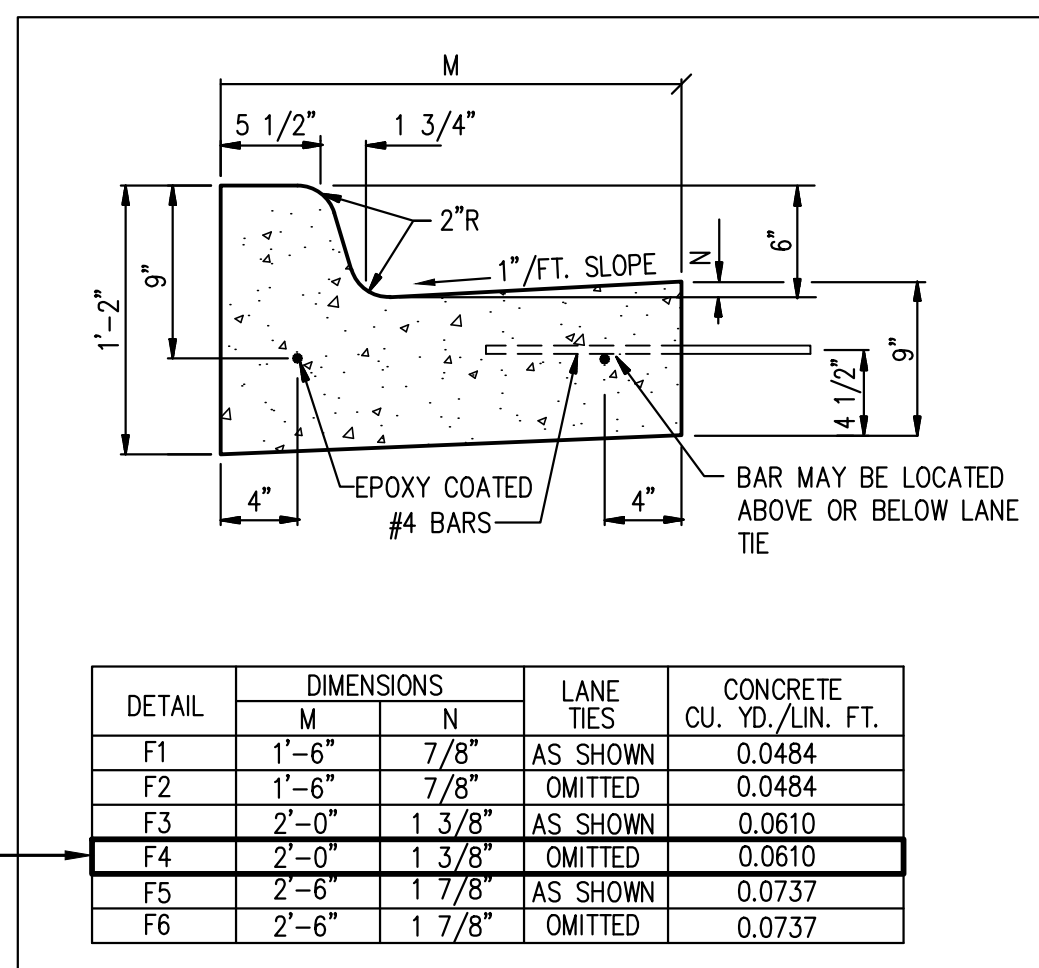
ELEVATION

WALL SECTION

TRASH/RECYCLE CART ENCLOSURE DETAIL
NOT TO SCALE

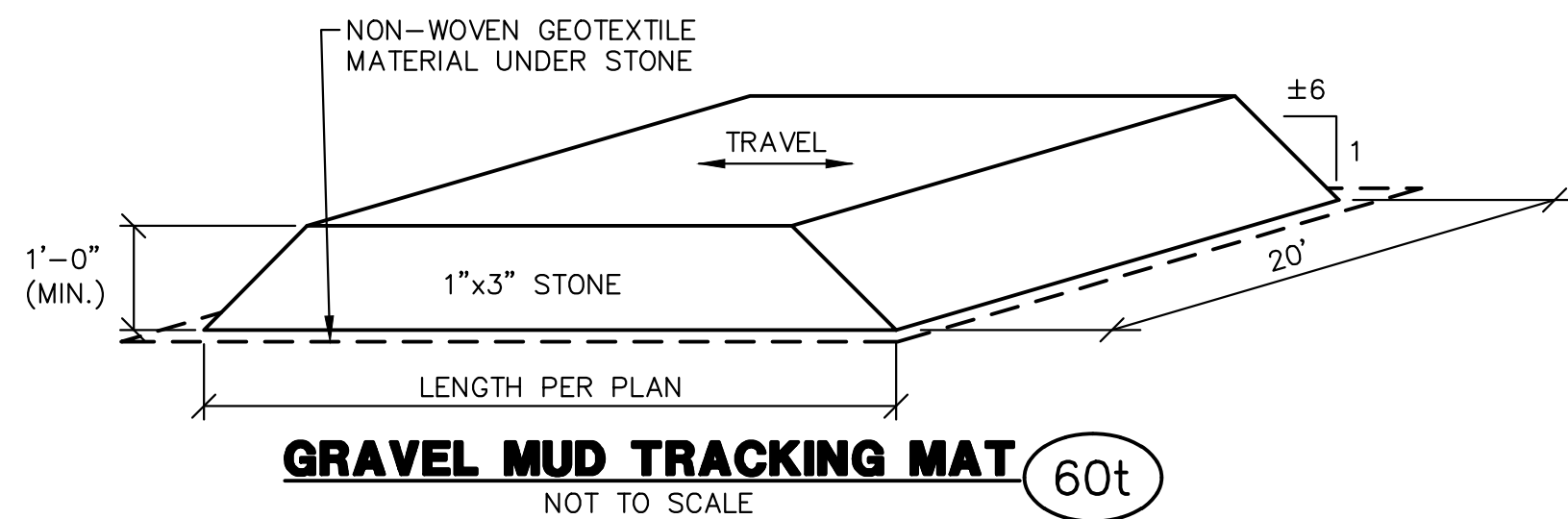


TYPICAL INTEGRAL WALK & CURB
NOT TO SCALE

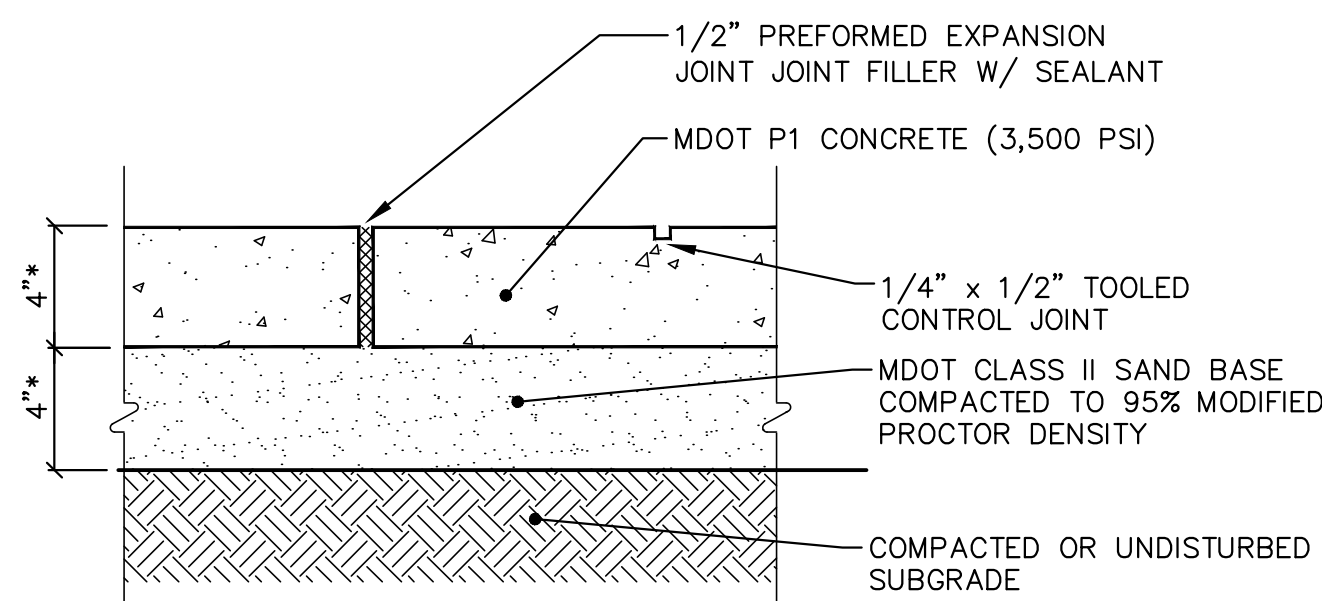


DETAIL	DIMENSIONS		LANE	CONCRETE
	M	N	YD./LIN. FT.	CU. YD./LIN. FT.
F1	1'-6"	7/8"	AS SHOWN	0.0484
F2	1'-6"	7/8"	OMITTED	0.0484
F3	2'-0"	1 3/8"	AS SHOWN	0.0610
F4	2'-0"	1 3/8"	OMITTED	0.0610
F5	2'-6"	1 7/8"	AS SHOWN	0.0737
F6	2'-6"	1 7/8"	OMITTED	0.0737

MDOT TYPE F CONCRETE CURB / GUTTER
NOT TO SCALE

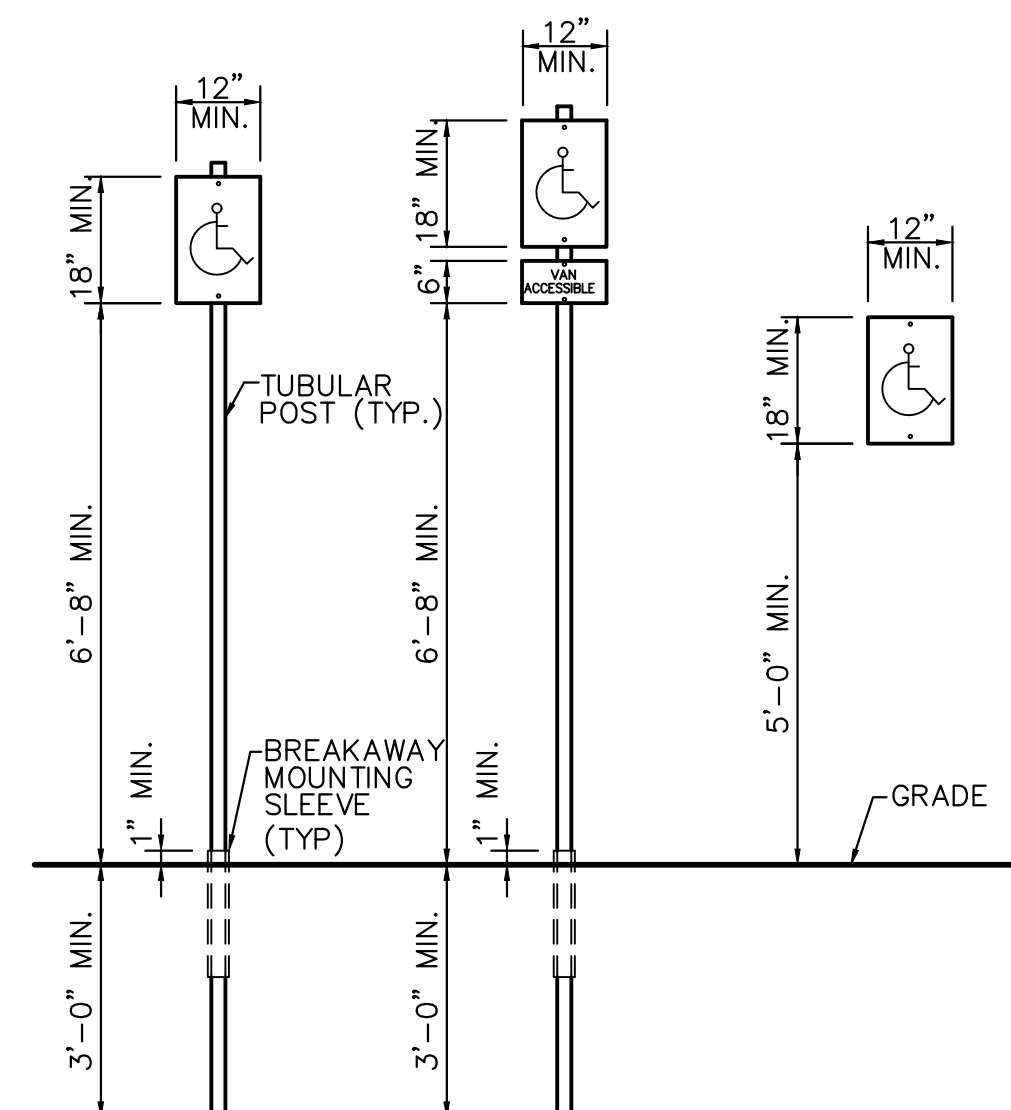


GRAVEL MUD TRACKING MAT 60t
NOT TO SCALE

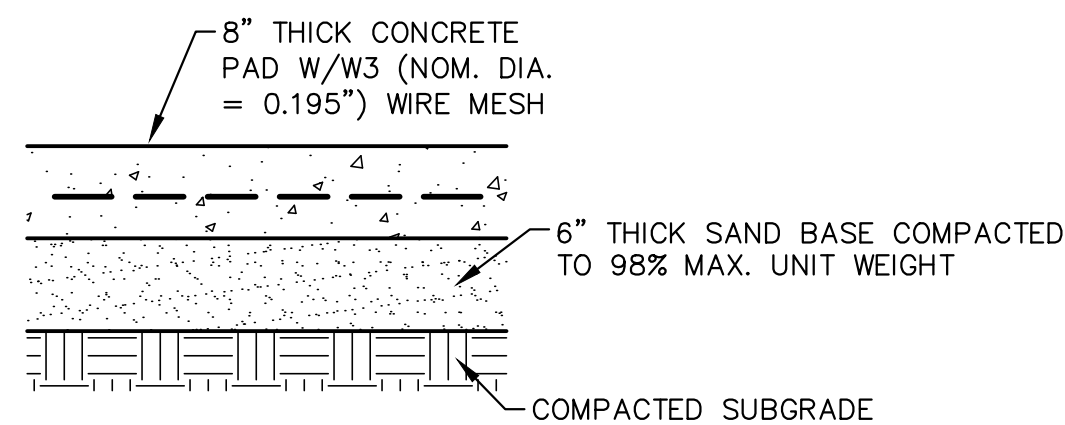


NOTE:
* INCREASE CONCRETE WALK TO 6" WHEN CROSSING A SINGLE-FAMILY OR DOUBLE-FAMILY DRIVEWAY, AND TO 8" FOR COMMERCIAL DRIVE CROSSINGS. USE 6" CLASS II SAND BASE AT RESIDENTIAL DRIVE CROSSINGS, AND 8" 21AA AGGREGATE BASE (98% MODIFIED PROCTOR) AT COMMERCIAL DRIVE CROSSINGS.

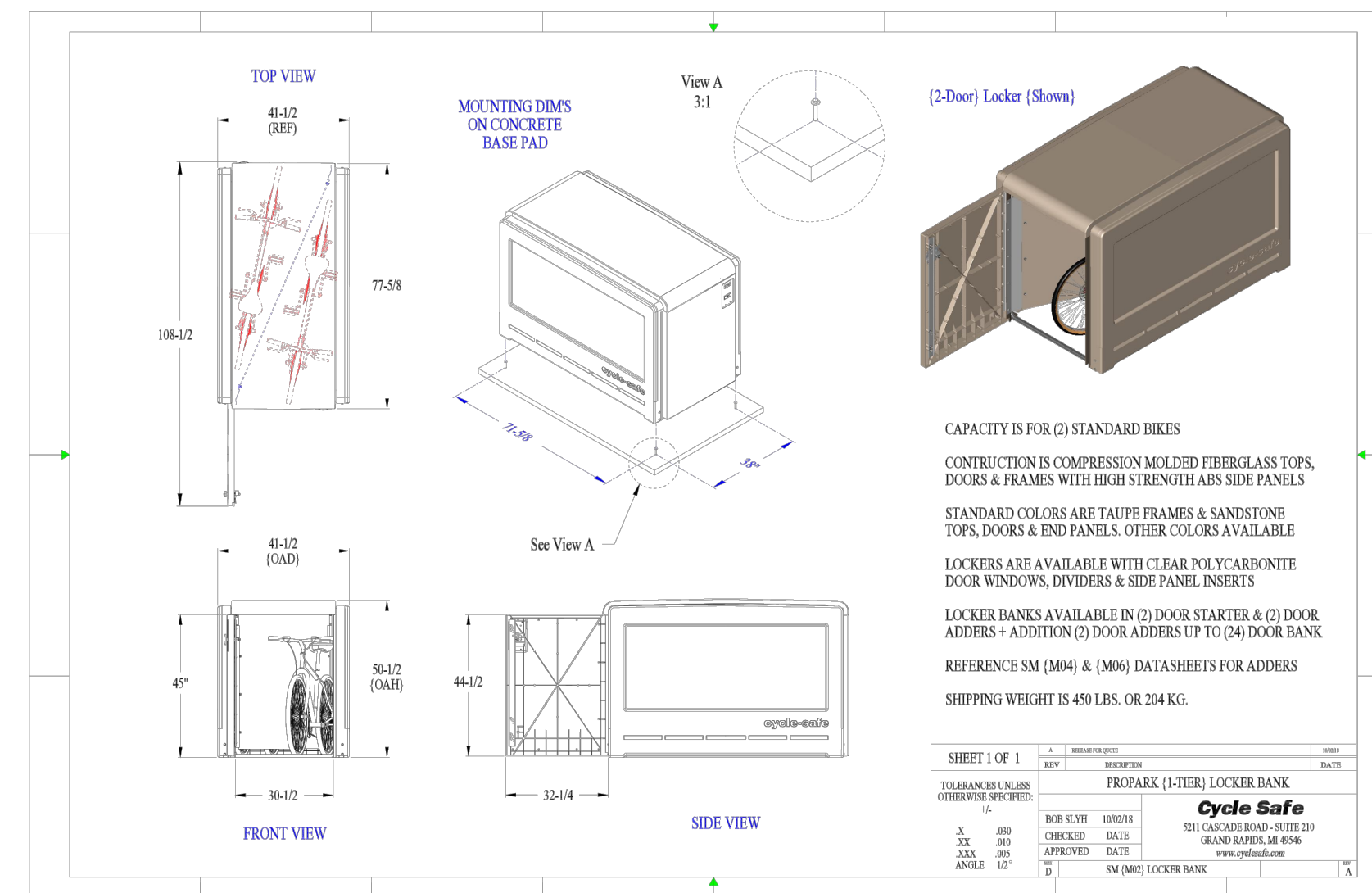
CONCRETE WALK DETAIL
NOT TO SCALE



TYPICAL HANDICAP PARKING SIGNS
SCALE: 1/2" = 1'-0"

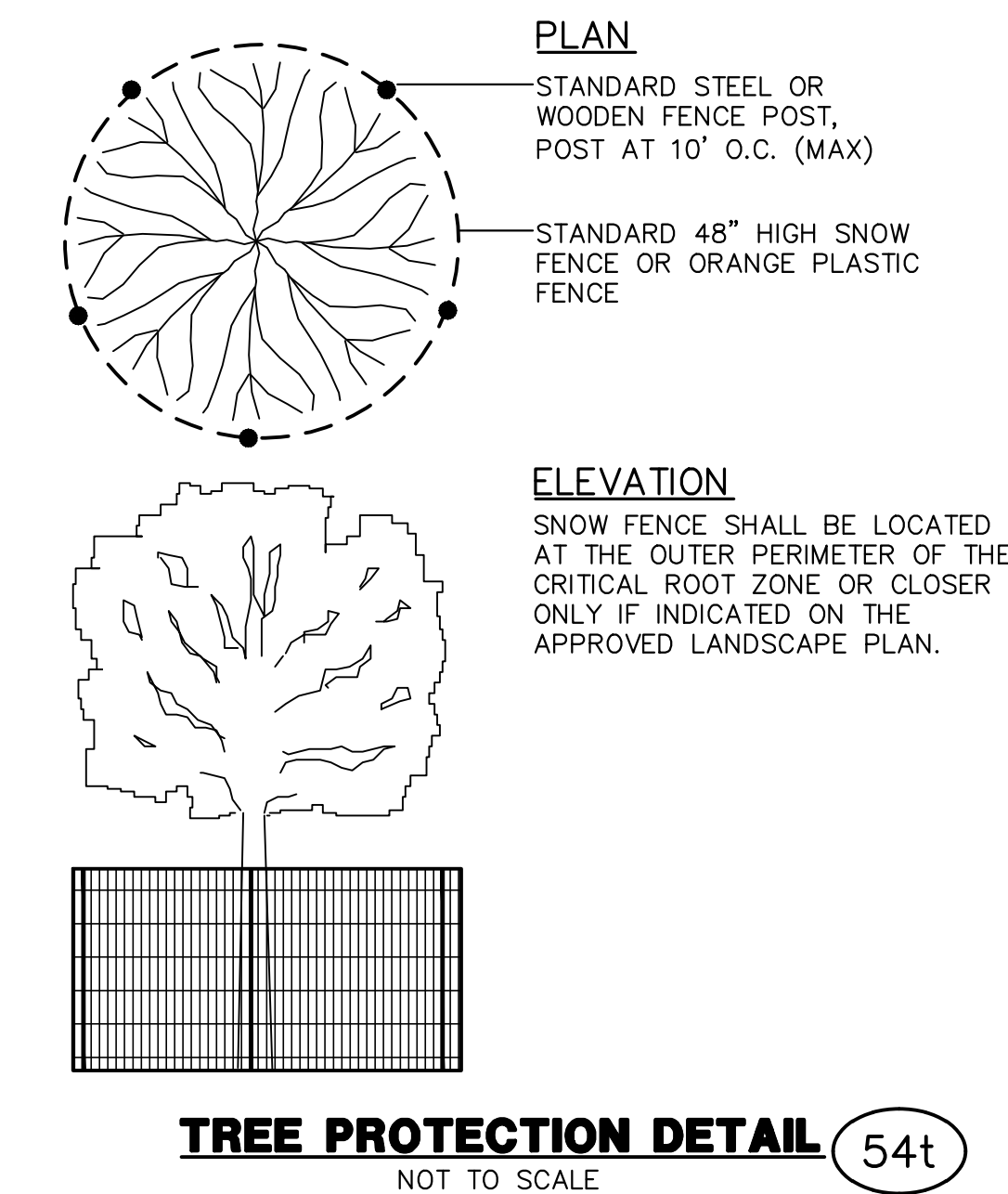


8" REINFORCED CONCRETE PAD
NOT TO SCALE

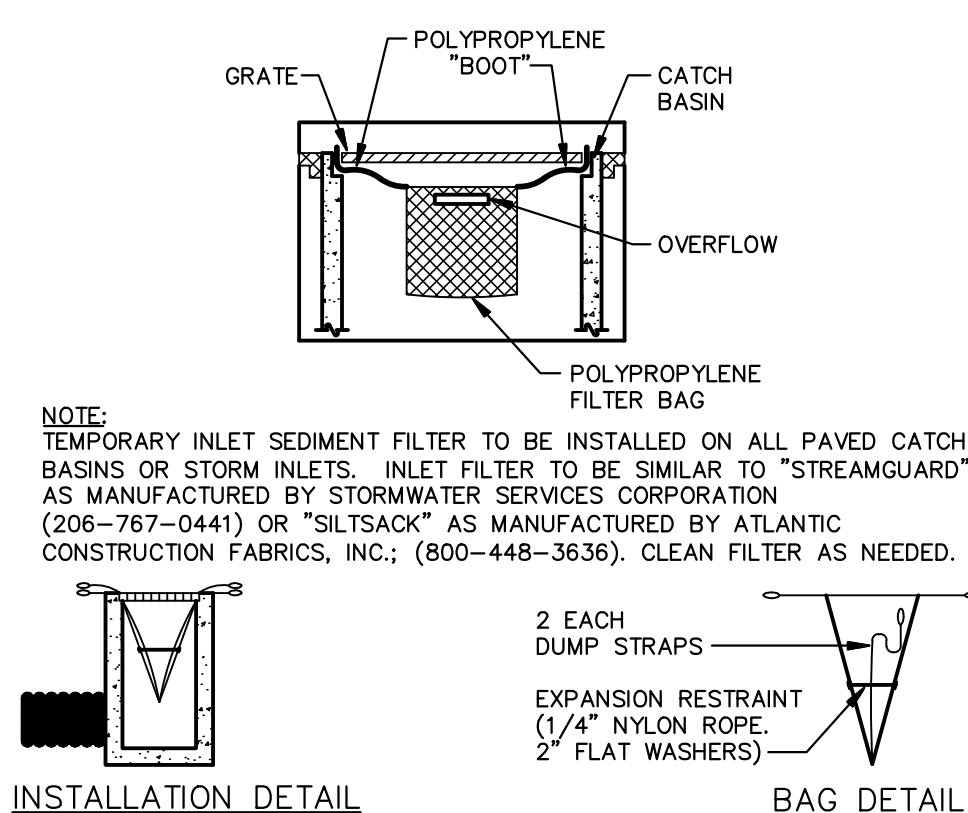


CAPACITY IS FOR (2) STANDARD BIKES
CONSTRUCTION IS COMPRESSION MOLDED FIBERGLASS TOPS, DOORS & FRAMES WITH HIGH STRENGTH ABS SIDE PANELS
STANDARD COLORS ARE TAUPE FRAMES & SANDSTONE TOPS, DOORS & END PANELS. OTHER COLORS AVAILABLE
LOCKERS ARE AVAILABLE WITH CLEAR POLYCARBONATE DOOR WINDOWS, DOORSEES & SIDE PANEL INSERTS
LOCKER BANKS AVAILABLE IN (1) DOOR STARTER & (2) DOOR ADDERS + ADDITION (2) DOOR ADDERS UP TO (24) DOOR BANK
REFERENCE SM (M04) & (M06) DATASHEETS FOR ADDERS
SHIPPING WEIGHT IS 450 LBS. OR 204 KG.

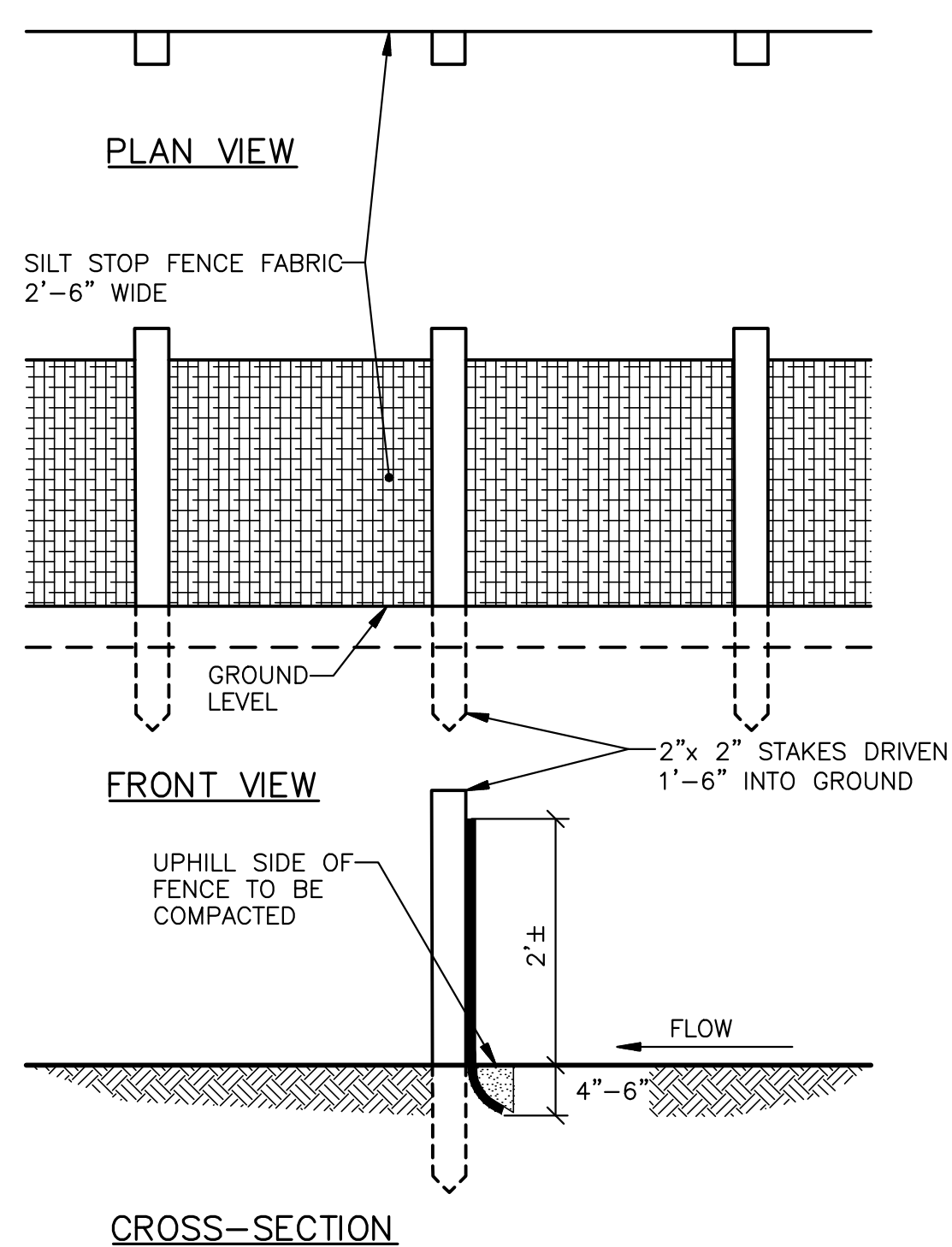
SHEET 1 OF 1	DATE	BY	CHKD	APP'D
PRO-PARK (1-TIER) LOCKER BANK	05/24/23	ENG. TPH		
Cycle Safe	06/29/23	PM: CMB		
	07/21/2021	TECH: CMB		



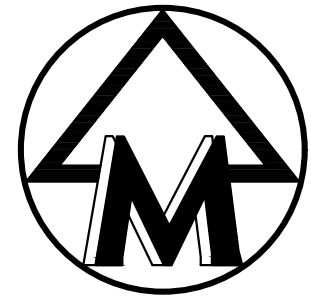
TREE PROTECTION DETAIL
NOT TO SCALE



SILT SACK DETAIL
NO SCALE



SILT FENCE DETAIL
NOT TO SCALE



SCALE: 1" = 30'
0 30 60 90



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MIDWESTERN

CONSULTING
3835 Plaza Drive Ann Arbor, Michigan 48108
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Land Development • Land Survey • Institutional • Municipal
Wireless Communications • Transportation • Landfill Services



CLIENT
3680 PACKARD ROAD, LLC
1820 CHICKORY RIDGE
ANN ARBOR, MI 48103
DR. ELIZABETH BARBER, DDS, MS, PC
734-645-6063

BLOSSOM DENTAL
SITE PLAN
FIRE PROTECTION & SOLID WASTE PLAN

16

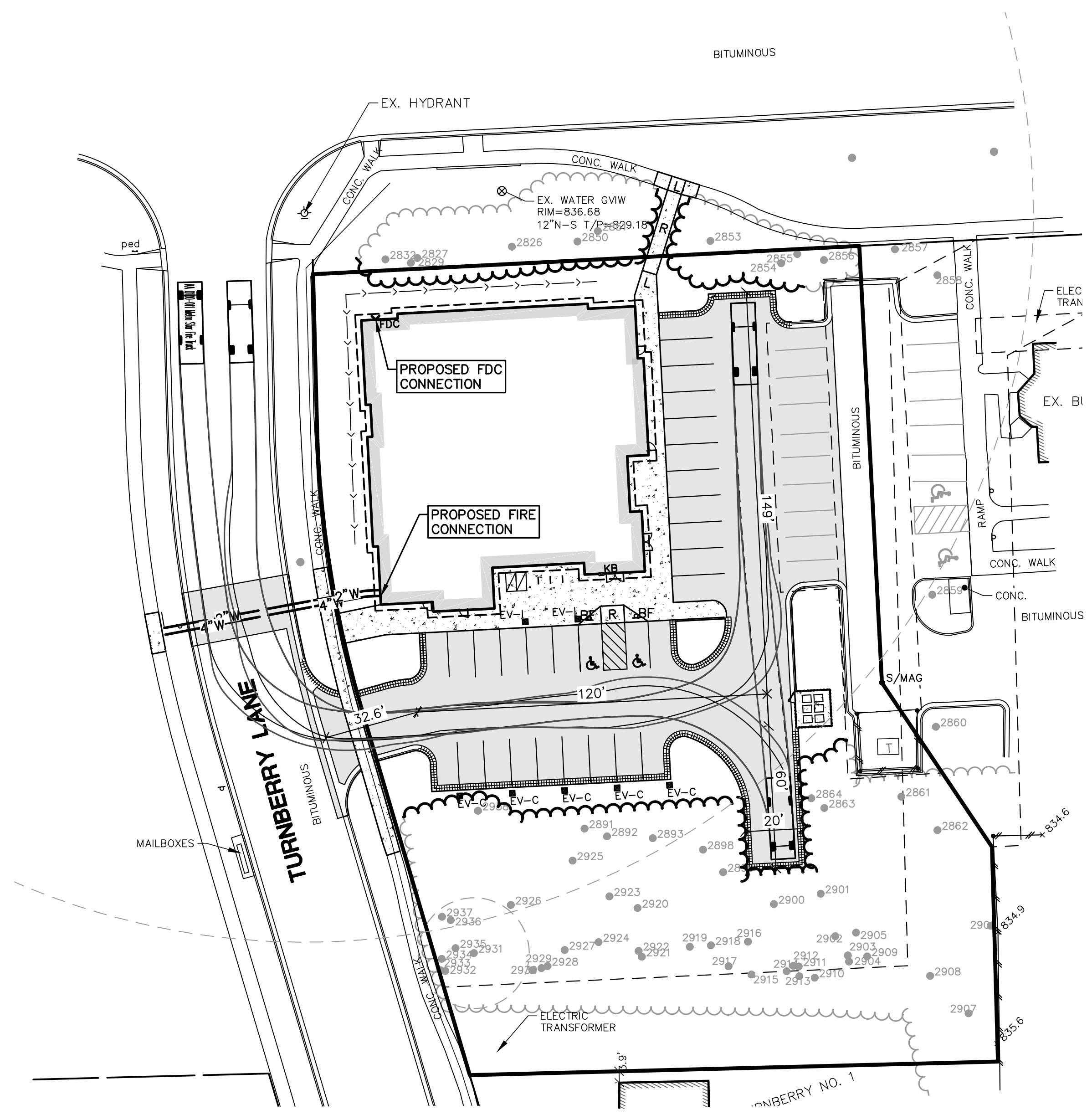
DATE: 02/28/23
SHEET 16 OF 22

JOB No. **22127**
REVISIONS:
REVISED PER CITY REVIEW
REVISED PER CITY REVIEW

REV. DATE
05/24/23
06/29/23

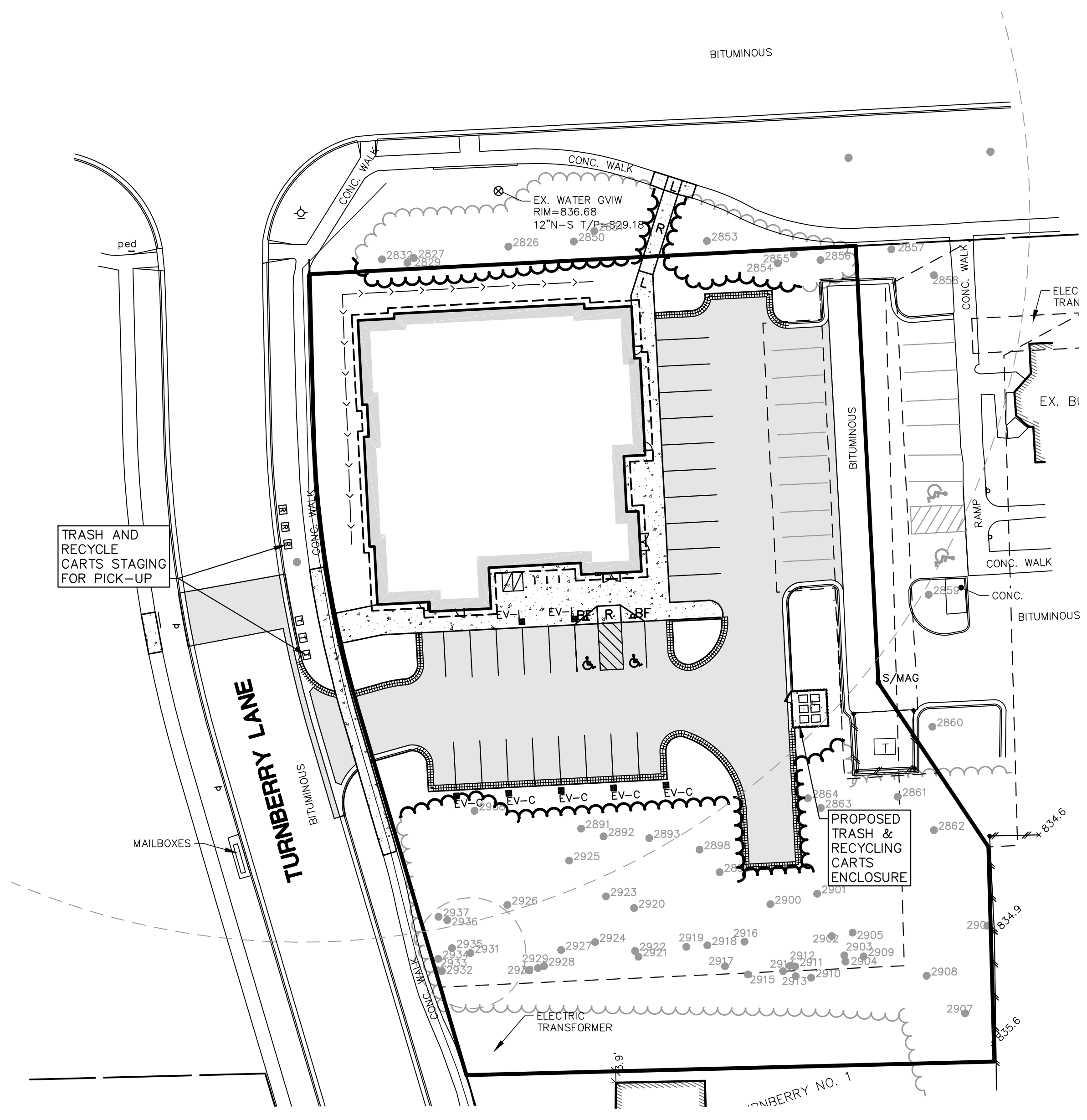
BY
CADD CAR
ENG. TPH
P.M. CMB
TECH. HJT
/22127P01

M:\Civil\136_Proj\136\22127\Site Plan\22127P01.dwg, 6/29/2023 5:02 PM, Cheryl A. Rienecker, 16 FIRE PROTECTION & SOLID WASTE PLAN, MLLC PDF.p03
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FIRE PROTECTION PLAN

SCALE: 1"=30'

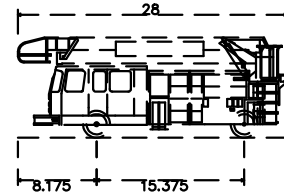


SOLID WASTE PLAN

SCALE: 1"=30'

FIRE PROTECTION NOTES

1. ALL BUILDINGS ARE WITHIN A 250' HYDRANT RADIUS.
2. ALL PARTS OF EXTERIOR WALLS ARE WITHIN A 400' HOSE LAY.
3. CONSTRUCTION SEQUENCE
A. HYDRANTS SHALL BE IN SERVICE PRIOR TO VERTICAL BUILDING CONSTRUCTION.
B. HYDRANTS PROVIDING COVERAGE FOR BUILDINGS SHALL BE IN SERVICE BEFORE COMBUSTIBLE MATERIALS ARE PLACED.
C. STORAGE AREAS FOR CONSTRUCTION MATERIAL MUST BE SO AS NOT TO INTERFERE WITH EMERGENCY SITE ACCESS.
4. ANY NEW OR RELOCATED HYDRANTS WITH STEAMER CONNECTIONS MUST BE INSTALLED SUCH THAT THE STEAMER CONNECTION IS FACING THE FIRE LANE.
5. DURING DETAILED ENGINEERING, THE SITE ADDRESS LOCATION(S) WILL BE COORDINATED WITH THE FIRE DEPARTMENT TO ENSURE THEY ARE CLEARLY LABELED AND VISIBLE WHEN APPROACHING THE BUILDING UNITS.
6. STORAGE AREA FOR CONSTRUCTION MATERIALS SHALL NOT INTERFERE WITH FIRE/EMERGENCY SITE ACCESS.
7. EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
8. EMERGENCY RESPONDER RADIO COVERAGE MUST MEET REQUIREMENTS AS SPECIFIED IN THE IFC SECTION 510.



AA 0100-011 Metro Star Fire Truck
Overall Length 28,000ft
Overall Width 8,250ft
Overall Body Height 10,432ft
Min Body Ground Clearance 0,862ft
Track Width 8,000ft
Lock-to-lock time 6,109s
Curb to Curb Turning Radius 29,470ft

FIRE ENGINE DETAIL

SCALE : NTS

SOLID WASTE NOTES

1. SOLID WASTE GENERATED BY THE BUILDING IS TO BE SERVED BY ONE DUMPSTER. THE OWNER HAS REACHED AN AGREEMENT WITH THE ADJACENT PROPERTY OWNER TO EAST (ANN ARBOR CAT CLINIC) TO SHARE USE OF EXISTING DUMPSTER LOCATED ON PROPERTY WITHIN EASEMENT. PROPOSED SOLID WASTE ENCLOSURE TO BE USED FOR STORAGE OF RECYCLING CARTS.
2. REFUSE TO BE COLLECTED ONCE PER WEEK PER CURRENT SCHEDULE.
3. SITE SHALL BE FULLY SERVICED BY CARTS IF SHARED DUMPSTER USE CANNOT BE ACCOMMODATED. SOLID WASTE ENCLOSURE SHALL BE BUILT TO ADEQUATELY STORE ALL CARTS NECESSARY TO SERVICE BOTH TRASH AND RECYCLING.

LEGEND

	EXIST. WATER MAIN
	PROP. WATER MAIN
	EXIST. HYDRANT
	PROP. HYDRANT
	EXIST. GATE VALVE IN BOX
	PROP. GATE VALVE IN BOX
	EXIST. GATE VALVE IN WELL
	PROP. GATE VALVE IN WELL
	EXIST. CURB STOP & BOX
	PROP. CURB STOP & BOX
	REDUCER
	EXIST. BLOW-OFF
	PROP. BLOW-OFF
	POST INDICATOR VALVE
	THRUST BLOCK
	EXIST. FIRE DEPARTMENT CONNECTION
	PROP. FIRE DEPARTMENT CONNECTION
	PROP. KNOXBOX

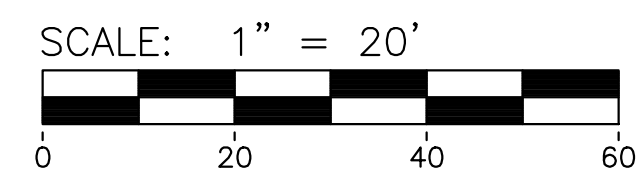
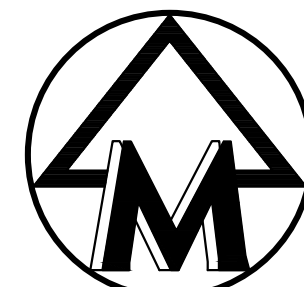
The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

PACKARD ROAD

BITUMINOUS

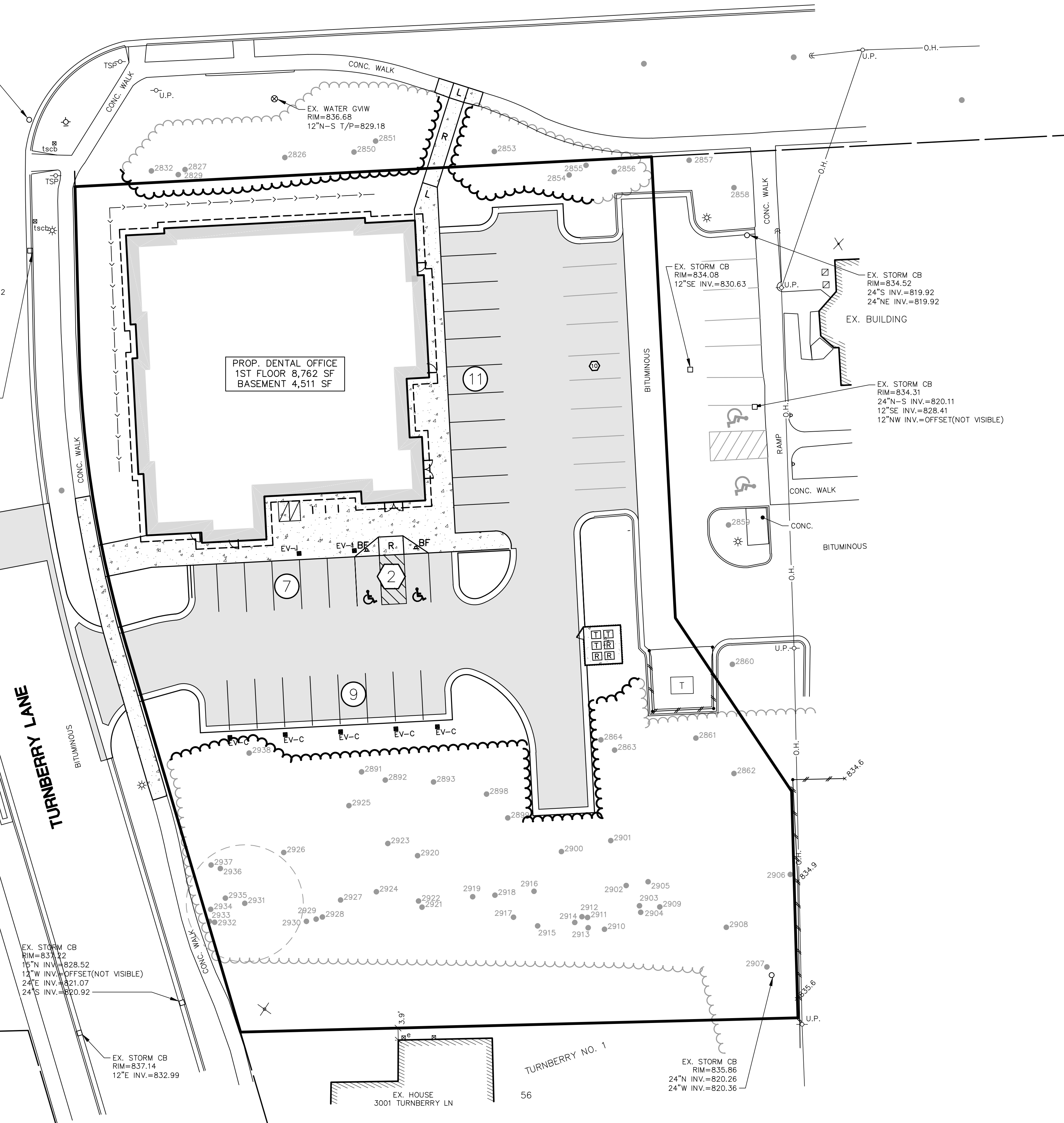


Know what's below. Call before you dig.



LEGEND

- Legend items including: NUMBER OF STANDARD PARKING SPACES IN ROW, NUMBER OF SMALL CAR PARKING SPACES IN ROW, NUMBER OF BARRIER FREE PARKING SPACES IN ROW, BARRIER FREE PARKING SIGN, BARRIER FREE SIDEWALK RAMP & LANDING, PROP. CURB & GUTTER, PROP. SPILL OUT CURB & GUTTER, PROP. BITUMINOUS PAVEMENT, PROP. CONCRETE PAVEMENT, PROP. HEAVY DUTY CONCRETE, SIGN, PROP. SINGLE LIGHT, PROP. VEHICLE CHARGING STATION-INSTALLED, PROP. VEHICLE CHARGING STATION-CAPPED FOR FUTURE



EV PARKING SUMMARY

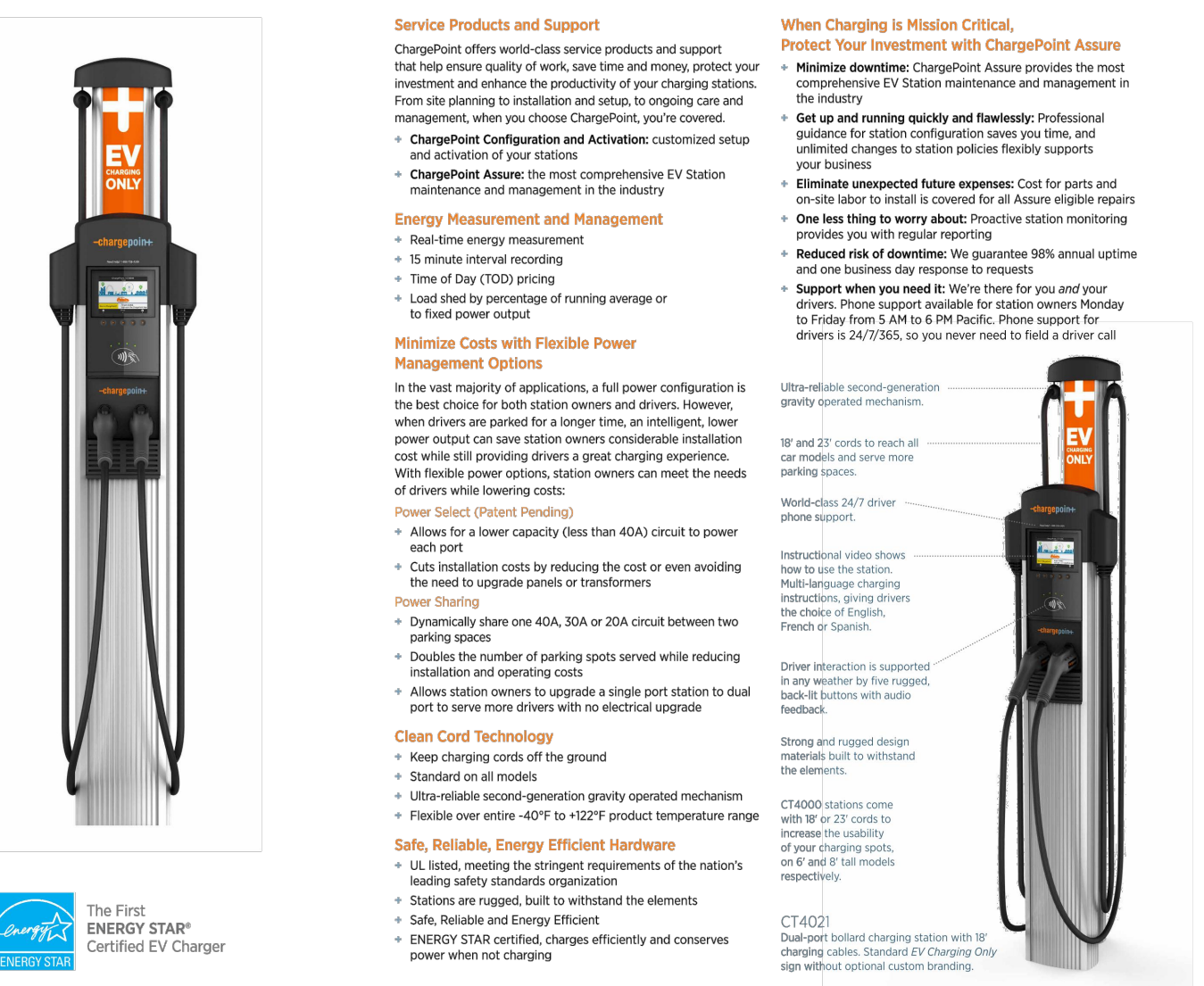
Table with 6 columns: Use, Max Parking, Parking Provided, EV-I Type, EV Ordinance, Required, Provided. Includes sub-table for Parking Requirements.

CHARGEPOINT EV CHARGING STATION

DEVELOPER PROPOSING TO USE CHARGEPOINT CT4000 LEVEL 2 COMMERCIAL CHARGING STATIONS. THIS MODEL ALLOWS FOR 2 ELECTRIC VEHICLE CHARGING STATIONS TO BE ON ONE SERVICE PEDESTAL. THIS IS SUBJECT TO CHANGE BASED UPON ANALYSIS OF ALL OPTIONS FOR EV STATION PROVIDERS AND FINAL DETERMINATION BY DEVELOPER.

CT4000 Family

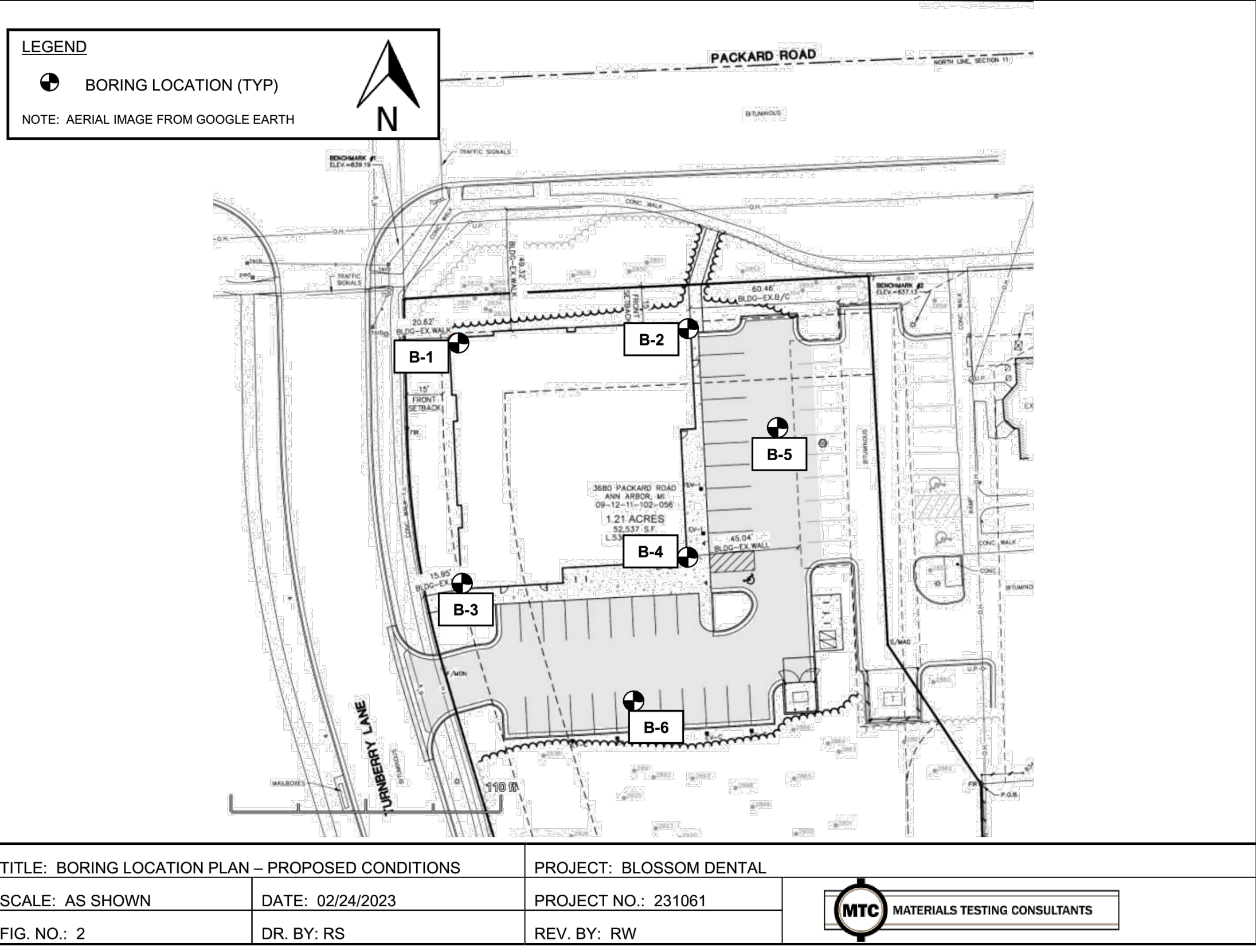
ChargePoint® Level 2 Commercial Charging Stations. The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics.



Vertical text on the left margin: M:\Civil\135_Prop\121212\Site Plan\121212\22801.dwg, 6/29/2023 5:05 PM, Charly A. Riehrdorf, 17 ELECTRIC VEHICLE PARKING PLAN, MCLLC PDF, 6:53

Client information: BLOSSOM DENTAL, 3680 PACKARD ROAD, LLC, 1820 CHICOORY RIDGE, ANN ARBOR, MI 48103. Includes job number 22127 and revision table.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned.



LOG OF BORING Project No: 231061, Boring No.: B-1. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

LOG OF BORING Project No: 231061, Boring No.: B-2. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

LOG OF BORING Project No: 231061, Boring No.: B-3. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

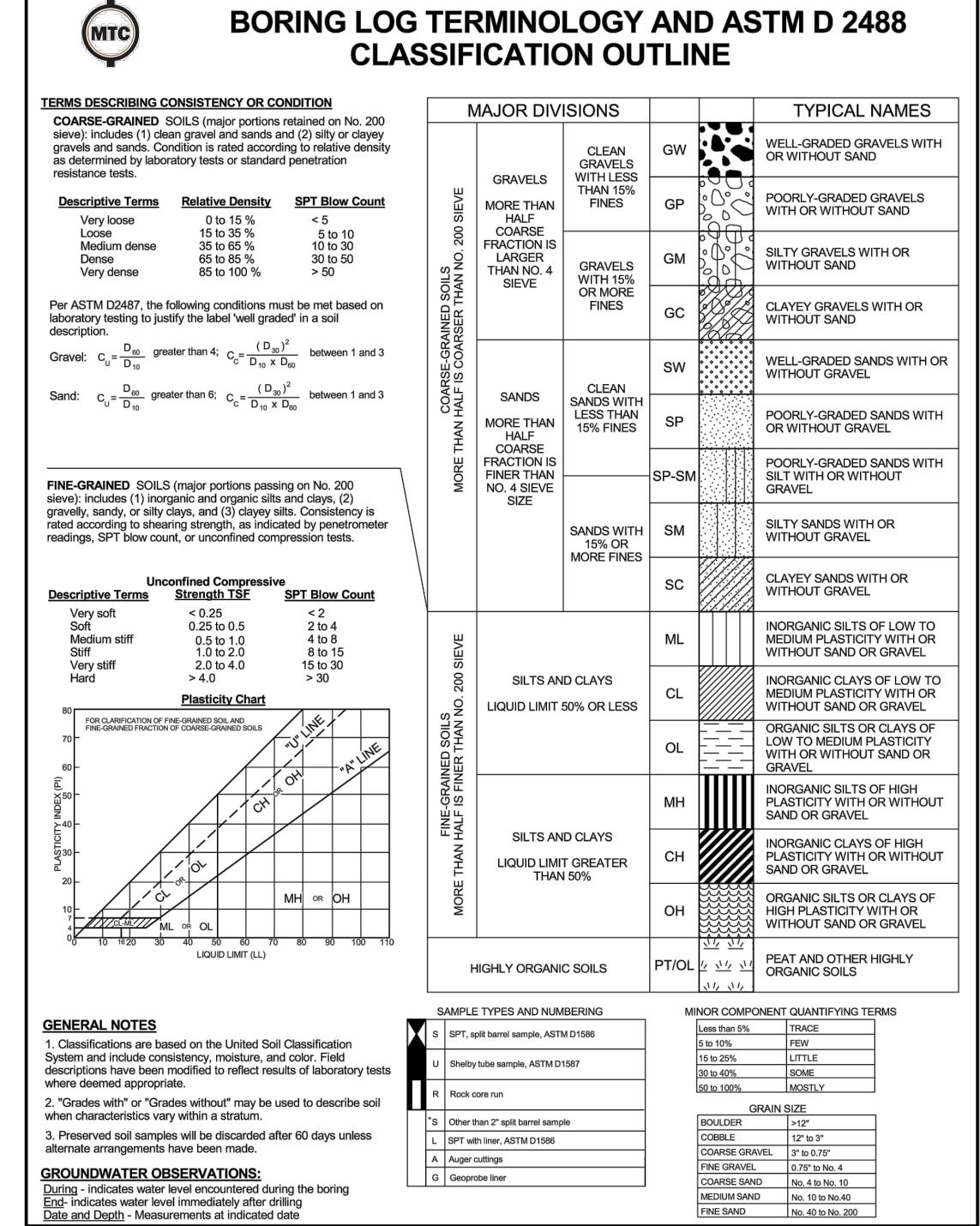
LOG OF BORING Project No: 231061, Boring No.: B-4. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

LOG OF BORING Project No: 231061, Boring No.: B-5. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

LOG OF BORING Project No: 231061, Boring No.: B-6. Includes project details, testing parameters, and a detailed log of soil samples from 1.5 to 20.0 feet depth.

MTC TEST DRILLING AND SAMPLING PROCEDURES

- Test Drilling Methods: Hollow stem auger, Mud rotary, Casing advancer, Rock coring, Core/Hand Auger. Sampling Methods: SPT, Thin-walled tube sampler. Boreholes Backfilled With: Excavated soil, Cement bentonite grout.



Vertical sidebar containing Midwestern Consulting logo, address (3680 Packard Road, LLC), project name (Blossom Dental Site Plan Soil Borings), sheet number (22127), and revision table.

D-Series Size 0 LED Area Luminaire

Specifications

EPA: 0.44 ft (0.34 m)
Length: 26.18" (665 mm)
Width: 14.06" (357 mm)
Height H1: 2.26" (57 mm)
Height H2: 7.64" (194 mm)
Weight: 23 lbs (10 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficiency, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLAIR2 PIRNH DB8X0

Series	LED	Color Temperature	Color Rendering Index	Distribution	Mounting	Shipping
DSX0 LED	P1	27K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P2	40K	80CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P3	50K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P4	50K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)

Options

Option	Description	Part Number
ES100N	Emergency battery backup, Certified in CA for 20 MAJADE	ES100N
ES100E	Emergency battery backup, Certified in CA for 20 MAJADE	ES100E
PE1	Phantom Junction Box	PE1
DMC*	0-10V dimming wire pulled outside fixture for use with an external dimmer, ordered separately	DMC*
BC2	Bottom cordset entry for back box (PWRN), Total of 4 entry points	BC2
BAA	Buy Alternative Act Compliant	BAA

- NOTES**
- ALL PROPOSED SITE LIGHTING FIXTURES ARE AIMED AT THE GROUND, ARE FULLY SHIELDED, AND COMPLY WITH TRESPASS AND GLARE SPECIFICATIONS. PROPOSED SITE LIGHTING FIXTURES ALSO COMPLY WITH INTERNATIONAL DARKSKY REQUIREMENTS.
 - NO LIGHTING FOR ABOVE GRADE OR VERTICAL TARGETS IS PROPOSED.
 - ALL PROPOSED WALL-MOUNTED LIGHTING IS FULLY SHIELDED AND COMPLIES WITH TRESPASS AND GLARE SPECIFICATIONS. THE MAXIMUM AVERAGE ILLUMINANCE ON THE FACADE SHALL BE 3 FOOT-CANDLES AS MEASURED AT A DISTANCE OF 10 FEET FROM THE FACADE.
 - NO LANDSCAPING OR DECORATIVE FACADE LIGHTING IS CURRENTLY BEING PROPOSED. IF PROVIDED IN THE FUTURE, SUCH LIGHTING WILL BE TURNED OFF BETWEEN 12:00AM AND 6:00AM.
 - NO MOTION-ACTIVATED LIGHTING SYSTEMS ARE CURRENTLY BEING PROPOSED. IF PROVIDED IN THE FUTURE, MOTION-ACTIVATED LIGHTING SYSTEMS WILL NOT BE ACTIVATED BY MOVEMENT BEYOND THE SITE.
 - ALL PROPOSED SITE LIGHTING FIXTURES ARE MOUNTED AT 0-DEGREE TILT.

- General Note**
- SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.
 - CALCULATIONS ARE SHOWN IN FOOT-CANDLES AT: 0' - 0"
 - LIGHTING ALTERNATES REQUIRE NEW PHOTOMETRIC CALCULATION AND RESUBMISSION TO CITY FOR APPROVAL.

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

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

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIREMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

FOR ORDERING INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

MOUNTING HEIGHT IS MEASURED FROM GRADE TO FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

WDGE2 LED Architectural Wall Sconce Precision Refractive Optic

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs (without options)

Introduction

The WDGE2 LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectangular design comes in four sizes with lumen packages ranging from 1,000 to 25,000 lumens, providing a true site-wide solution. Embodied with mLight™ AR wireless controls, the WDGE2 family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

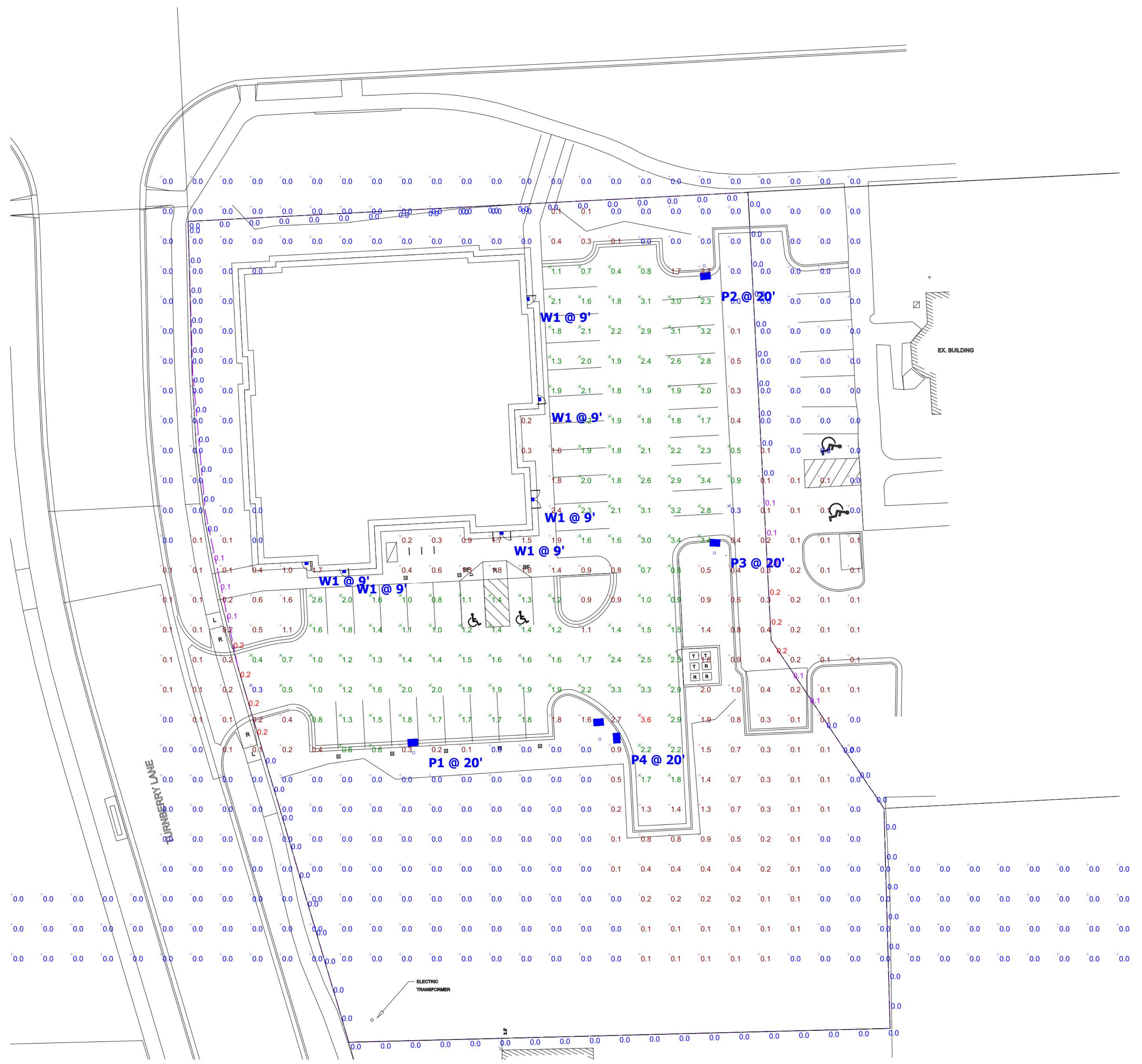
Luminaire	Series	Standard (L x W)	Color (CRI, CCT)	Mounting	PS	P1	P2	P3	P4	PS	P1	P2	P3	P4
WDGE2 LED	Recessed	4W	18W	Standard / Right	750	1,200	2,200	3,900	4,300	6,000

Ordering Information EXAMPLE: WDGE2 LED P3 40K 80CRI BV MVOLT SRM DB8X0

Series	Package	Color Temperature	CRI	Distribution	Mounting	Shipping
WDGE2 LED	P1	27K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P2	40K	80CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P3	50K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)
	P4	50K	90CRI	T15	Type 1 Street	MSL7L (120V-277V)

Options

Option	Description	Part Number
ES100N	Emergency battery backup, Certified in CA for 20 MAJADE	ES100N
ES100E	Emergency battery backup, Certified in CA for 20 MAJADE	ES100E
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DMC*	0-10V dimming wire pulled outside fixture for use with an external dimmer, ordered separately	DMC*
BC2	Bottom cordset entry for back box (PWRN), Total of 4 entry points	BC2
BAA	Buy Alternative Act Compliant	BAA

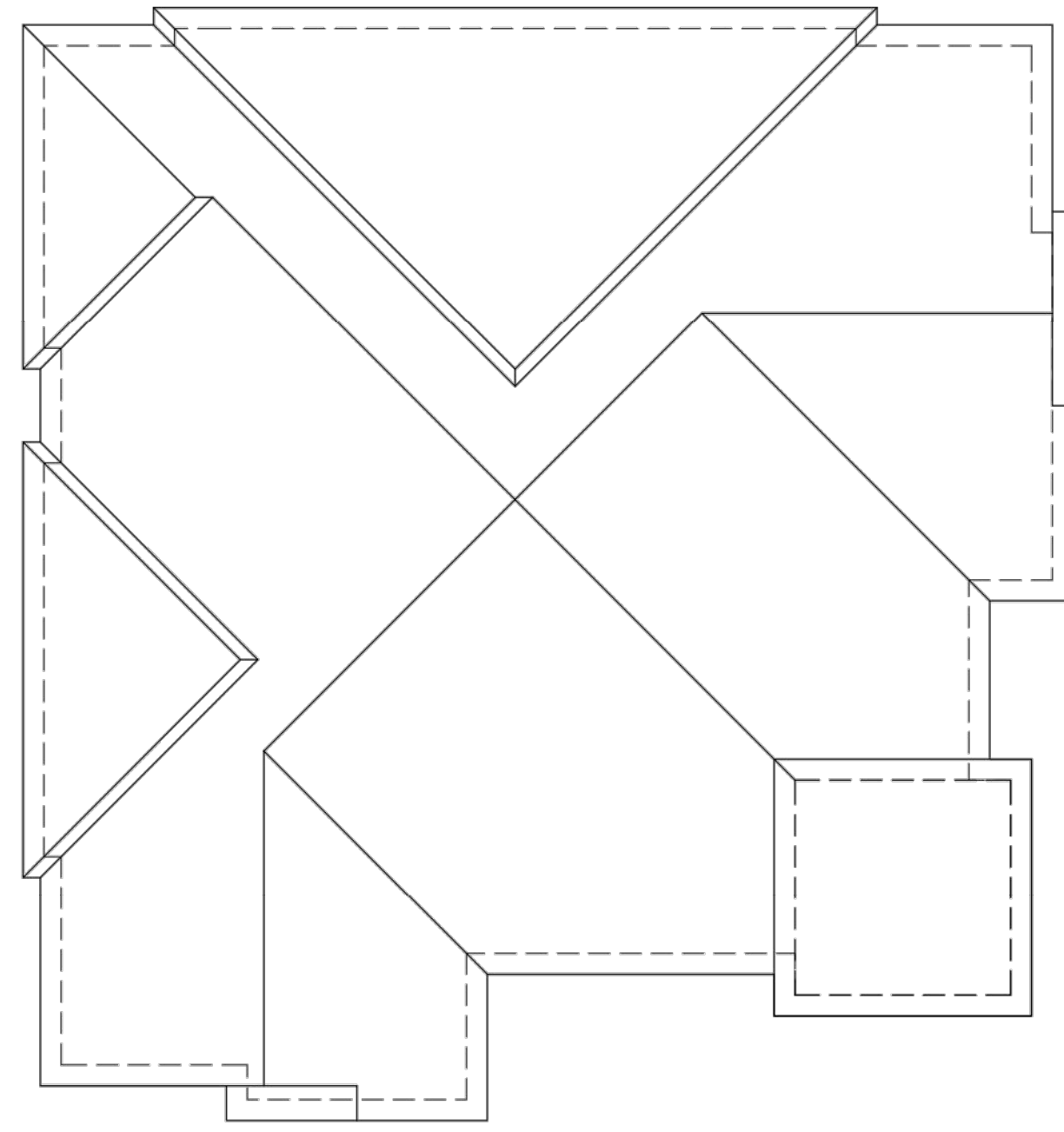


Schedule

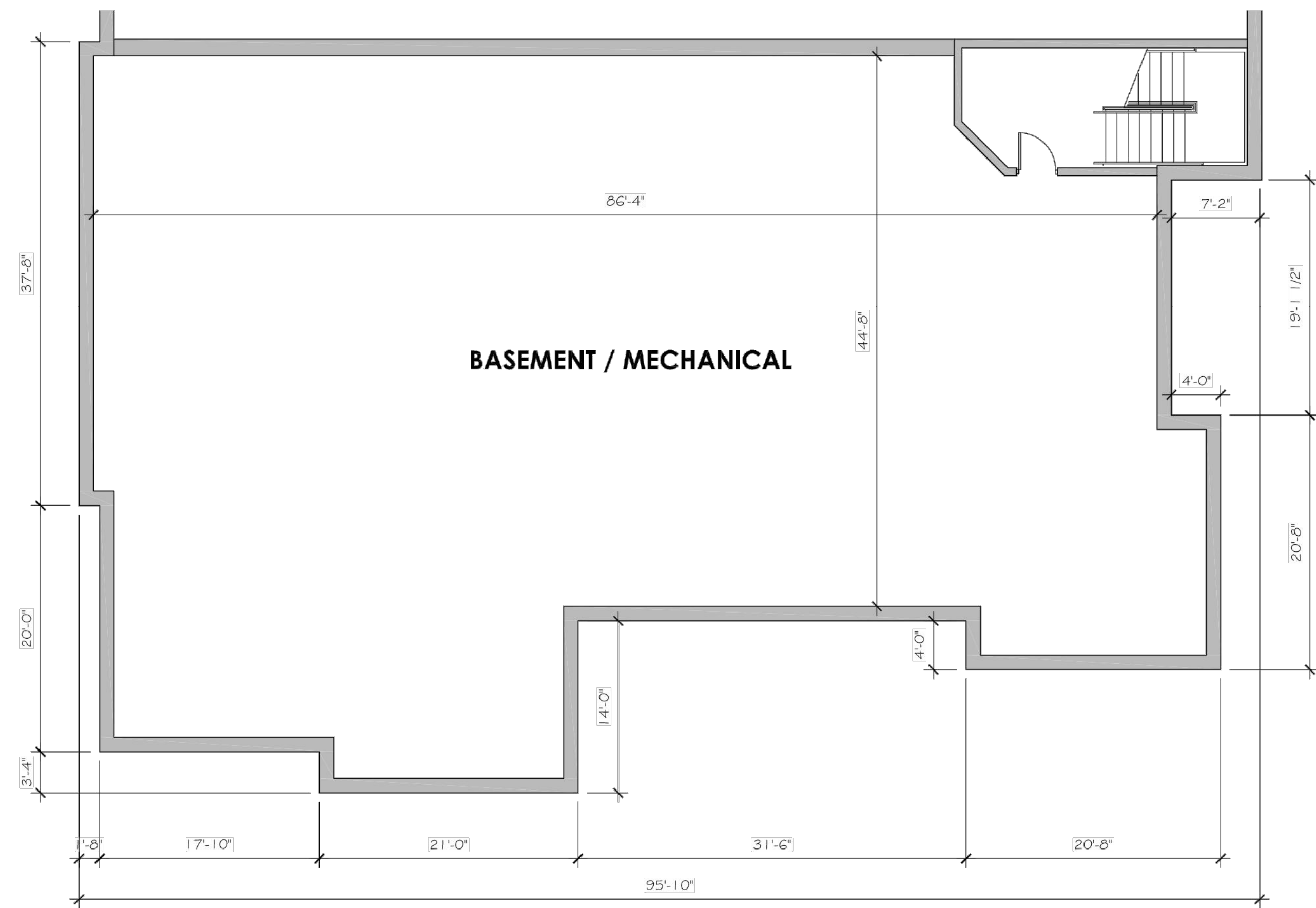
Symbol	Label	Quantity	Manufacturer	Catalog Number	Lamp	Light Loss Factor
□	P1	1	Lithonia Lighting	DSX0 LED 30K 70CRI	LED	0.9
□	P2	1	Lithonia Lighting	DSX0 LED 30K 70CRI	LED	0.9
□	P3	1	Lithonia Lighting	DSX0 LED 30K 70CRI	LED	0.9
□	P4	1	Lithonia Lighting	[...]	[...]	0.9
□	W1	6	Lithonia Lighting	WDGE2 LED 30K 70CRI	LED	0.9

Statistics

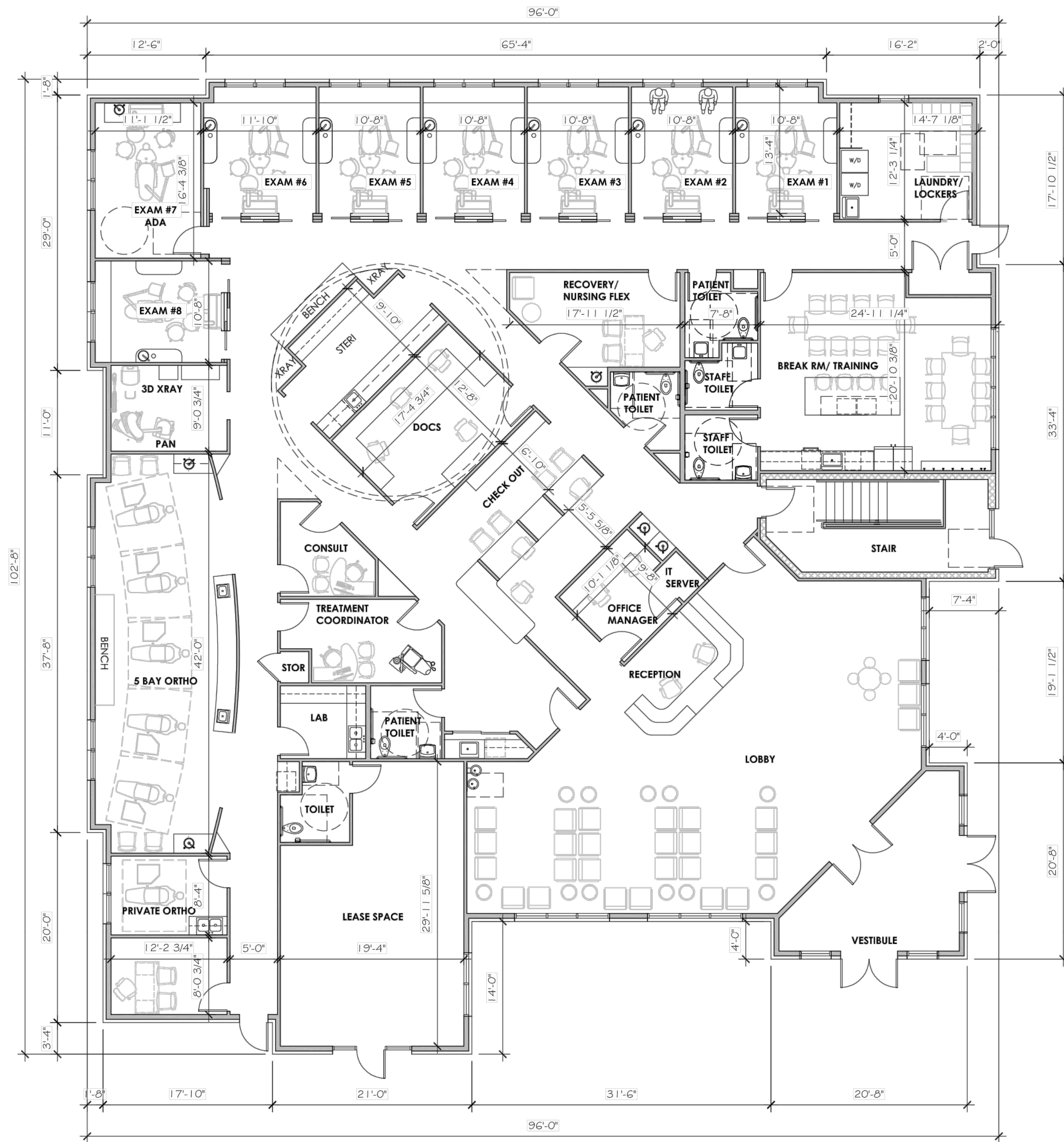
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
OVERALL	+	0.5 fc	3.6 fc	0.0 fc	N/A	N/A	0.1:1
Parking Lot	X	1.8 fc	3.6 fc	0.3 fc	12.0:1	6.0:1	0.5:1
Property Line	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A	0.0:1



ROOF PLAN
1/16" = 1'-0"



PARTIAL BASEMENT PLAN
1/8" = 1'-0" 4.511 SF



FLOOR PLAN
1/8" = 1'-0" 8.762 SF

5		
4		
3		
2		
1		
NO. REVISIONS / SUBMISSIONS		DATE

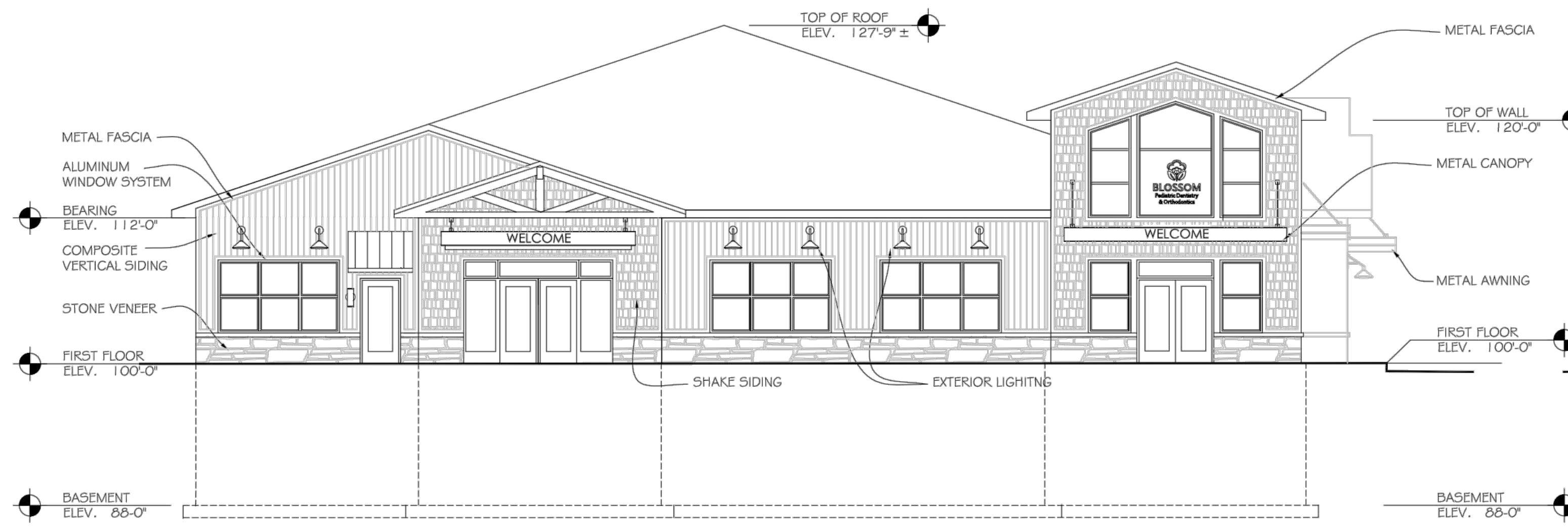
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Finding FUNCTIONal & creative design solutions for every need

111 east court street suite 3D flint, michigan 48502

NEW BUILDING FOR:
BLOSSOM
PEDIATRIC DENTISTRY
3680 PACKARD RD
ANN ARBOR, MI

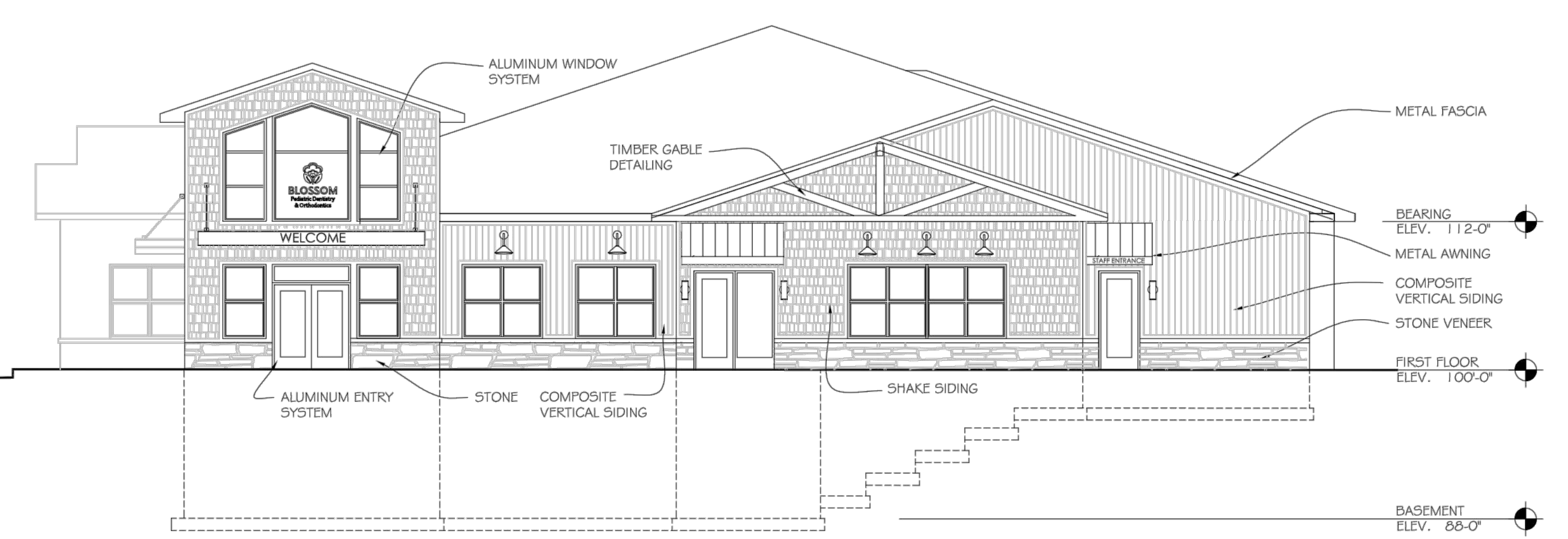
DRAWING TITLE
FLOOR PLAN

SEAL	DRAWN	PROJECT NO.
		CAD FILE NO.
	REVIEWED	DRAWING NO.
	DATE	A101
	SCALE	SHEET NO.
	1/8" = 1'-0"	OF



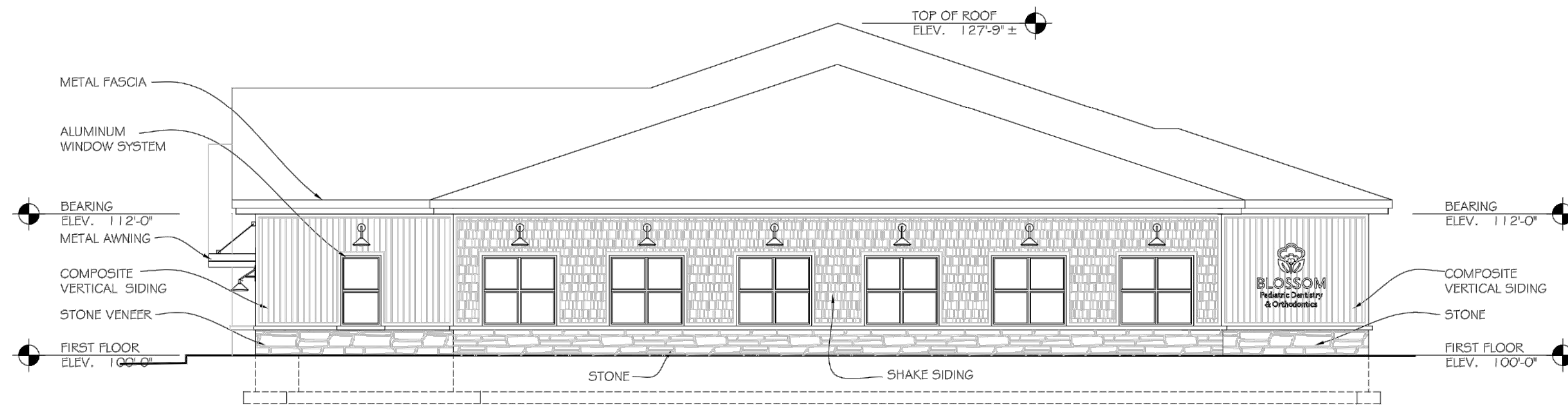
SOUTH ELEVATION

1/8" = 1'-0"



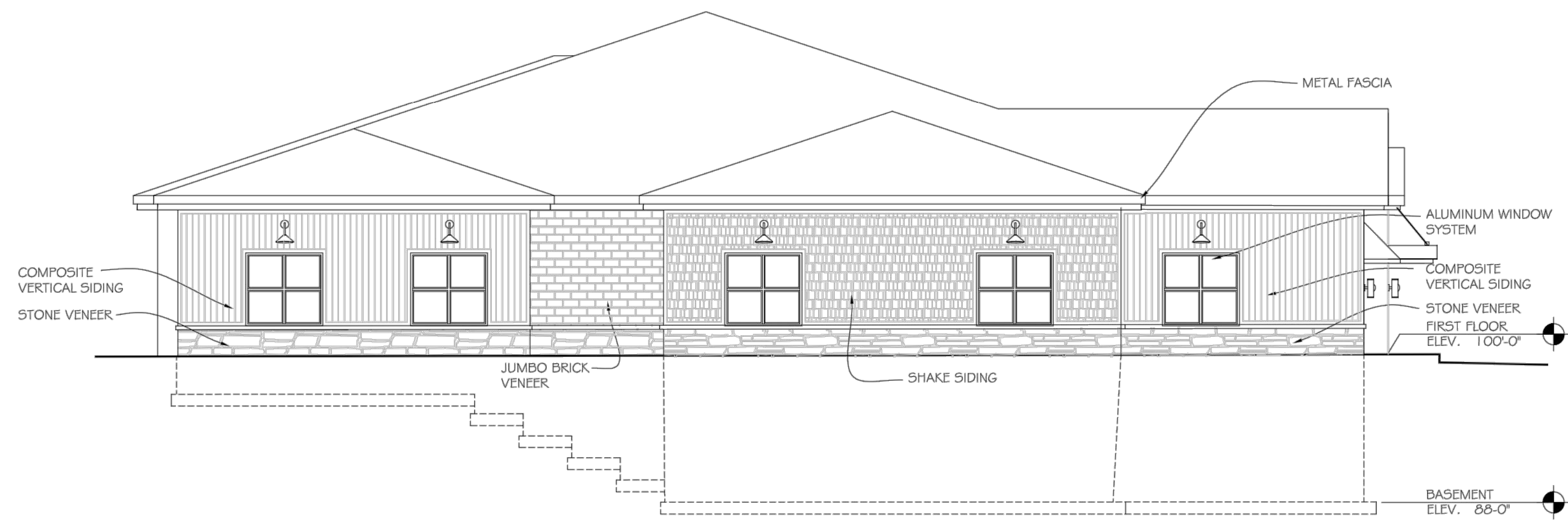
EAST ELEVATION

1/8" = 1'-0"



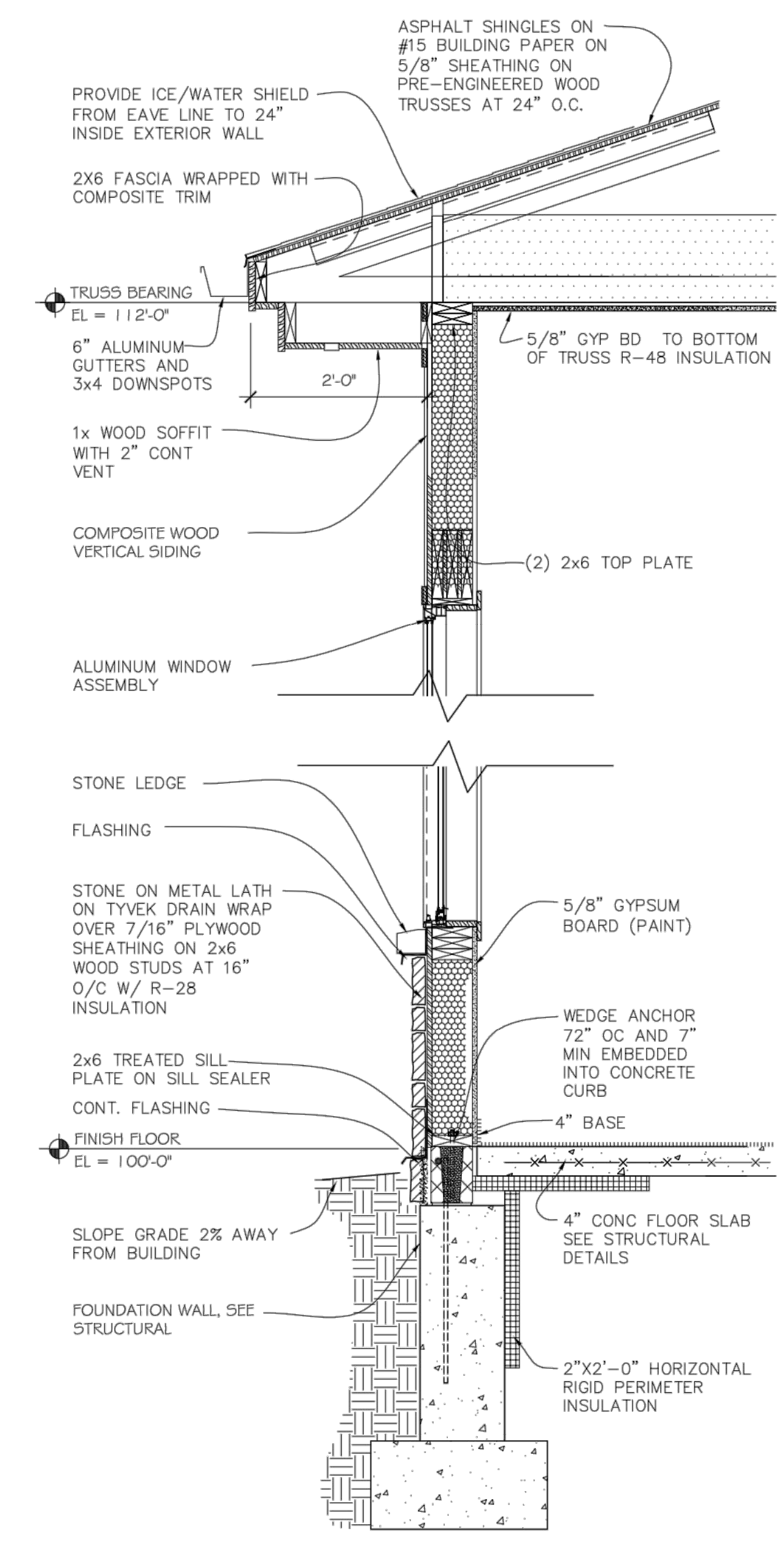
NORTH ELEVATION

1/8" = 1'-0"



WEST ELEVATION

1/8" = 1'-0"



TYPICAL WALL SECTION

3/4" = 1'-0"

5		
4		
3		
2		
1		
NO.	REVISIONS / SUBMISSIONS	DATE

FUNCHITECTURE
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NEW BUILDING FOR:
BLOSSOM
PEDIATRIC DENTISTRY
3680 PACKARD RD
ANN ARBOR, MI

DRAWING TITLE
EXTERIOR ELEVATIONS

SEAL	DRAWN	PROJECT NO.
		CAD FILE NO.
	REVIEWED	DRAWING NO.
	DATE	A201
	5-10-2023	SHEET NO.
	SCALE	OF
	1/8" = 1'-0"	



5		
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DRAWING TITLE EXTERIOR RENDERINGS		
SEAL	DRAWN	PROJECT NO.
	REVIEWED	CAD FILE NO.
	DATE 5-10-2023	DRAWING NO. A301
	SCALE	SHEET NO. OF