3420 ROCHESTER ROAD

3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

PERMIT / APPROVAL SUMMARY DATE SUBMITTED DATE APPROVED PERMIT / APPROVAL

GENERAL NOTES:

FOR ALL CONDITIONAL USES, A "CONDITIONAL USE PROPOSED SIGN" SHALL BE PLACED ON-SITE NO LESS THAN FIFTEEN (15) DAYS PRIOR TO THE PUBLIC HEARING DATE. SUCH SIGN SHALL BE IN COMPLIANCE WITH SECTION 138-1,203 OF CITY ORDINANCES.

THE OWNER, TENANT, OCCUPANT OR PERSON RESPONSIBLE FOR ANY PROPERTY WHICH WAS THE SUBJECT OF AN APPROVED SITE PLAN SHALL MAINTAIN THE PROPERTY AND THE IMPROVEMENTS THEREON IN ACCORDANCE WITH THE APPROVED SITE PLAN OR AN APPROVED AMENDMENT THEREOF. THIS RESPONSIBILITY SHALL INCLUDE THE DUTY TO MAINTAIN IN A CONDITION SUBSTANTIALLY SIMILAR AS APPROVED, INCLUDING THE JTY TO REPLACE, IF NECESSARY, ALL IMPROVEMENTS SUCH AS, BUT NOT BY WAY OF LIMITATION, ALL GREENBELTS, PLANTING WALLS, FENCES, PAVING, TRASH RECEPTACLES, DISABLED PARKING AREAS, ETC.

Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan shall maintain the property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles, handicapped parking areas, etc.



NRNB2022-0009 PSP2022-0020 **Revision #5** Received 2/4/25

City of Rochester Hills Planning & Economic Development

Site Plan Review Reviewed for compliance with City Ordinance, Building and Fire Codes Conditions and mark-ups noted throughout plan set must be addressed prior to final

Department	Reviewer	Approved
Assessing	Assessing	Yes
Building	Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org	Yes with conditions
Engineering - Utilities	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes
Engineering Legal	Seth Bucholz 248-841-2491 bucholzs@rochesterhills.org	Yes
Fire	Lt. Jon Mills 248-841-2708 MillsJ@RochesterHills.org	Yes
Natural Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	Yes
Planning	Chris McLeod 248-841-2572 mcleodc@RochesterHills.org	Yes
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes

Next Steps: Plans will be forwarded to the next available Planning Commission agenda.

Buffer D Requirement along southern property lir **Planning Com**

W. AUBURN ROAD







GROUP

DESIGN TEAM

OWNER/APPLICANT/DEVELOPER CIVIL ENGINEER

3420 ROCHESTER ROAD, LLC PEA GROUP 29200 NORTHWESTERN HWY, SUITE 450 2430 ROCHESTER COURT, STE. 100 FARMINGTON HILLS, MI 48334 TROY, MI 48083-1872 CONTACT: KENNY KOZA CONTACT: JAMES P. BUTLER, PE PHONE: 844.813.2949 PHONE: 248.770.0204 EMAIL: KENNY@AZOKGROUP.COM EMAIL: JBUTLER@PEAGROUP.COM

ARCHITECT

GAV & ASSOCIATES INC. 24001 ORCHARD LAKE RD #180a FARMINGTON, MI 48336 CONTACT: MEL BEBA PHONE: 248.985.9101 EMAIL: MEL@GAVASSOCIATES.COM LANDSCAPE ARCHITECT

PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JANET EVANS, PLA PHONE: 844.813.2949 EMAIL: JEVANS@PEAGROUP.COM andscape bond = \$94,480

NUMBER TITLE **COVER SHEET** TOPOGRAPHIC SURVEY PRELIMINARY SITE PLAN M.D.O.T. DRIVE-THRU STACKING PLAN FIRE TRUCK TURNING PLAN PRELIMINARY GRADING PLAN PRELIMINARY UTILITY PLAN STORM SEWER PROFILES STORM SEWER PROFILES STORM SEWER PROFILES DRAINAGE AREA MAP NOTES AND DETAILS NOTES AND DETAILS **DETAILS** M.D.O.T. DETAILS LANDSCAPE PLAN LANDSCAPE DETAILS TREE PLAN SITE LIGHTING PHOTOMETRIC PLAN SITE LIGHTING CUT SHEET FLOOR PLAN MEZZ FLOOR PLAN **EXTERIOR ELEVATIONS** EXTERIOR RENDERINGS

INDEX OF DRAWINGS

REVISIONS	
DESCRIPTION	DATE
ORIGINAL ISSUE DATE	8/15/2022
SITE/UTILITY LAYOUT	12/20/2023
SITE/UTILITY LAYOUT	4/17/2024
PER CITY COMMENTS	6/14/2024
PER MDOT COMMENTS	9/23/2024
PER CITY COMMENTS	10/9/2024
PER CITY COMMENTS	11/15/2024
PER CITY COMMENTS	1/8/2025
PER CITY COMMENTS	2/3/2025

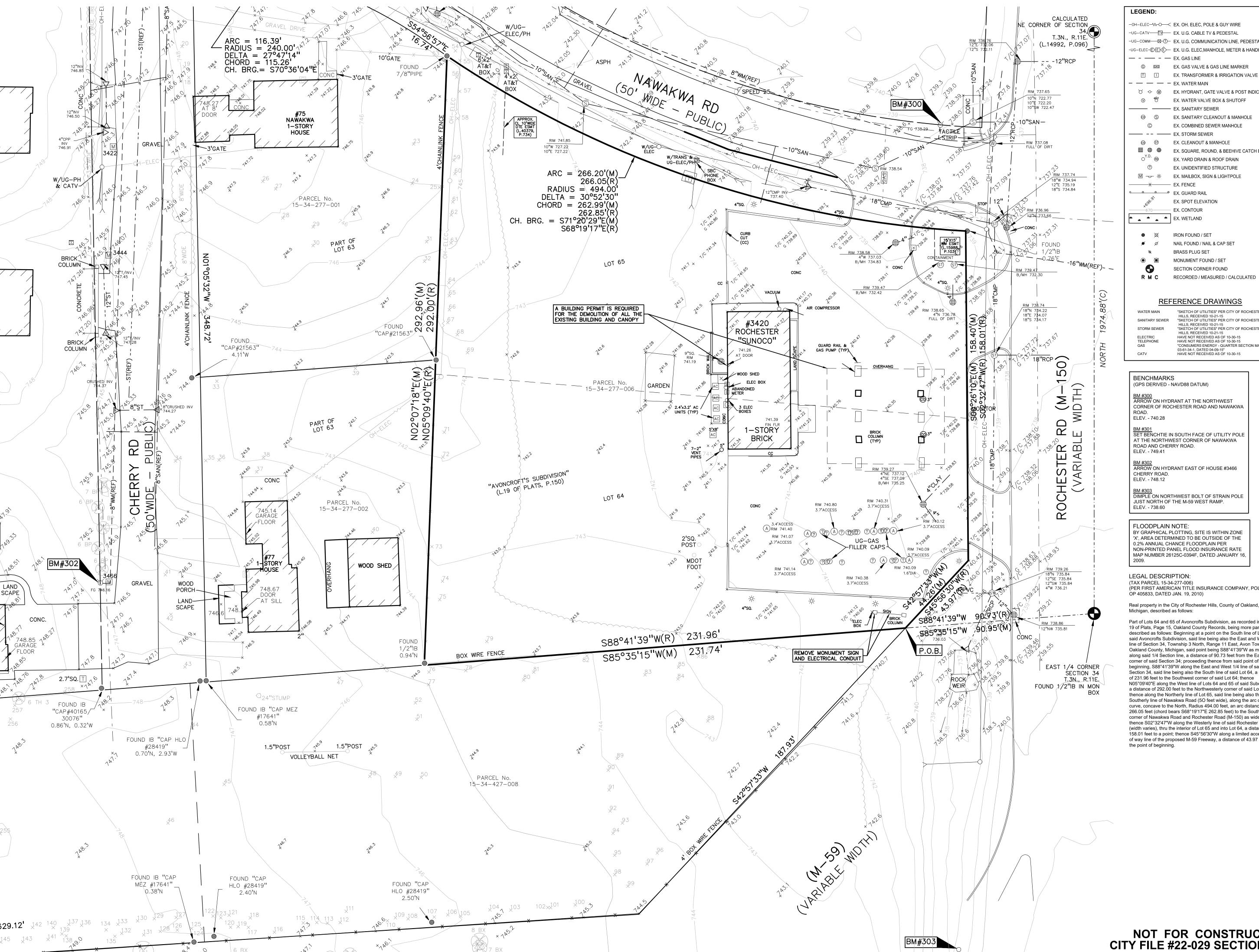


9

202

420

NOT FOR CONSTRUCTION **CITY FILE #22-029 SECTION #34**



-OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE

UG-CATV-TV- EX. U.G. CABLE TV & PEDESTAL -UG-ELEC-®®® EX. U.G. ELEC,MANHOLE, METER & HANDHOLE — - — - EX. GAS LINE

GROUP www.peagroup.com

t: 844.813.2949

SCALE: 1" = 20'

© SAS EX. GAS VALVE & GAS LINE MARKER — — — EX, WATER MAIN EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE EX. WATER VALVE BOX & SHUTOFF EX. SANITARY SEWER EX. SANITARY CLEANOUT & MANHOLE EX. COMBINED SEWER MANHOLE

—— -- —— EX. STORM SEWER EX. CLEANOUT & MANHOLE EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN EX. YARD DRAIN & ROOF DRAIN

EX. UNIDENTIFIED STRUCTURE X EX. FENCE EX. GUARD RAIL

EX. SPOT ELEVATION EX. CONTOUR 👱 🌞 🎍 EX. WETLAND

IRON FOUND / SET NAIL FOUND / NAIL & CAP SET BRASS PLUG SET MONUMENT FOUND / SET SECTION CORNER FOUND

REFERENCE DRAWINGS

"SKETCH OF UTILITIES" PER CITY OF ROCHESTER HILLS, RECEIVED 10-21-15 "SKETCH OF UTILITIES" PER CITY OF ROCHESTER HILLS, RECEIVED 10-21-15 SANITARY SEWER "SKETCH OF UTILITIES" PER CITY OF ROCHESTER HILLS, RECEIVED 10-21-15 HAVE NOT RECEIVED AS OF 10-30-15

"CONSUMERS ENERGY - QUARTER SECTION MAP 03-61-34-1, DATED 04-09-15" HAVE NOT RECEIVED AS OF 10-30-15

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGF JTILITIES AS SHOWN ON THIS DRAWING ARE ONLY UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY
APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR
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(GPS DERIVED - NAVD88 DATUM) BM #300 ARROW ON HYDRANT AT THE NORTHWEST CORNER OF ROCHESTER ROAD AND NAWAKWA ELEV. - 740.28 BM #301 SET BENCHTIE IN SOUTH FACE OF UTILITY POLE AT THE NORTHWEST CORNER OF NAWAKWA ROAD AND CHERRY ROAD. ELEV. - 749.41 BM #302 ARROW ON HYDRANT EAST OF HOUSE #3466 CHERRY ROAD. ELEV. - 748.12

BM #303 DIMPLE ON NORTHWEST BOLT OF STRAIN POLE JUST NORTH OF THE M-59 WEST RAMF ELEV. - 738.60

FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER NON-PRINTED PANEL FLOOD INSURANCE RATE MAP NUMBER 26125C-0394F, DATED JANUARY 16

LEGAL DESCRIPTION: (TAX PARCEL 15-34-277-006) (PER FIRST AMERICAN TITLE INSURANCE COMPANY, POLICY No.

OP 405833, DATED JAN. 19, 2010) Real property in the City of Rochester Hills, County of Oakland, State of

Part of Lots 64 and 65 of Avoncrofts Subdivision, as recorded in Liber 19 of Plats, Page 15, Oakland County Records, being more particularly described as follows: Beginning at a point on the South line of Lot 64 of said Avoncrofts Subdivision, said line being also the East and West 1/4 line of Section 34, Township 3 North, Range 11 East, Avon Township, Oakland County, Michigan, said point being S88°41'39"W as measured along said 1/4 Section line, a distance of 90.73 feet from the East 1/4 corner of said Section 34; proceeding thence from said point of beginning, S88°41'39"W along the East and West 1/4 line of said

Section 34, said line being also the South line of said Lot 64, a distance of 231.96 feet to the Southwest corner of said Lot 64; thence N05°09'40"E along the West line of Lots 64 and 65 of said Subdivision. a distance of 292.00 feet to the Northwesterly corner of said Lot 65; thence along the Northerly line of Lot 65, said line being also the Southerly line of Nawakwa Road (50 feet wide), along the arc of a

curve, concave to the North, Radius 494.00 feet, an arc distance of 266.05 feet (chord bears S68°19'17"E 262.85 feet) to the Southwesterly corner of Nawakwa Road and Rochester Road (M-150) as widened; thence S02°32'47"W along the Westerly line of said Rochester Road (width varies), thru the interior of Lot 65 and into Lot 64, a distance of 158.01 feet to a point; thence S45°56'30"W along a limited access right of way line of the proposed M-59 Freeway, a distance of 43.97 feet to

CLIENT

CAUTION!!

3420 ROCHESTER ROAD, LLC 29200 NORTHWESTERN HIGHWAY SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER ROAD 3420 ROCHESTER ROAD

ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

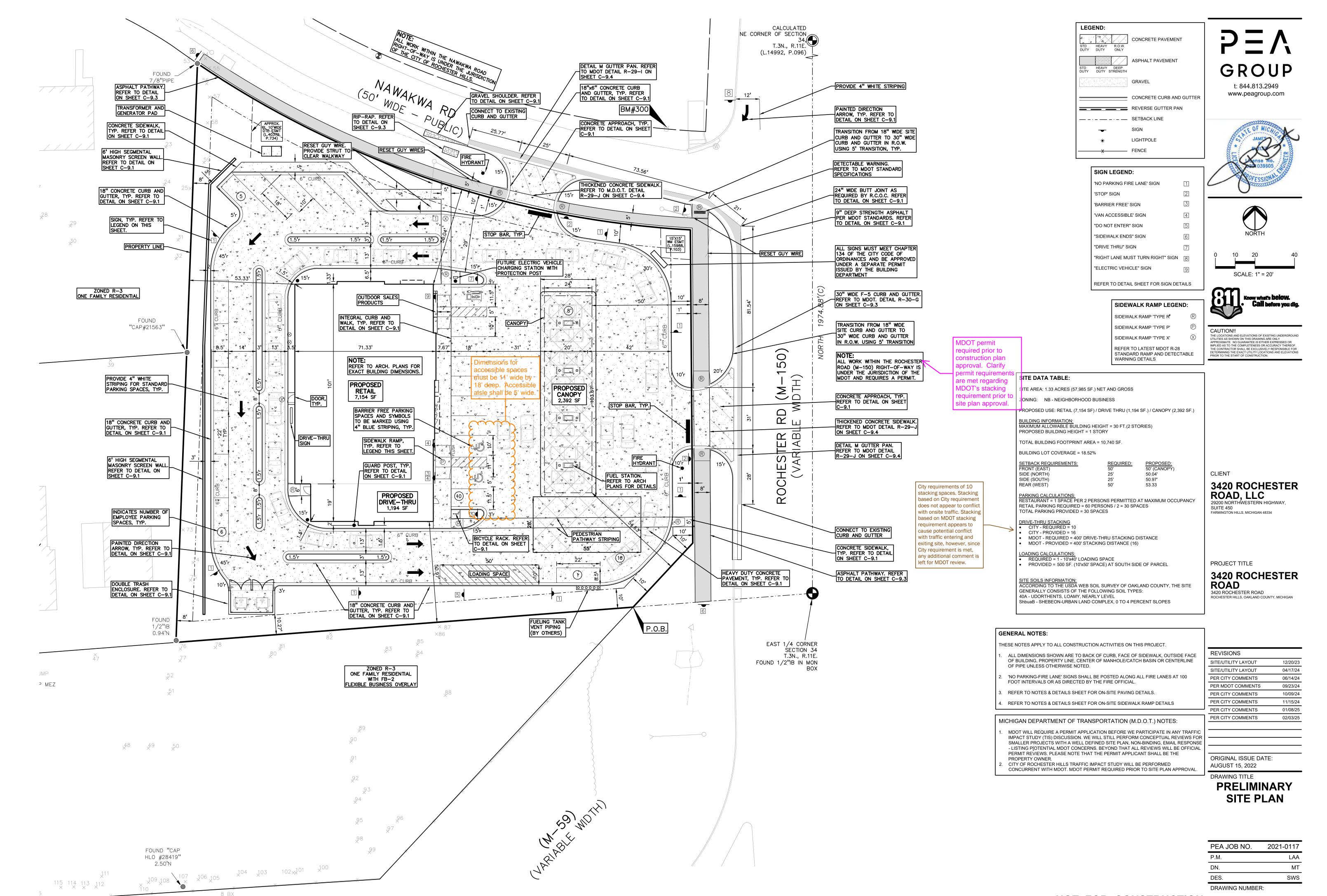
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PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25
·	

ORIGINAL ISSUE DATE: AUGUST 15, 2022

DRAWING TITLE **TOPOGRAPHIC SURVEY**

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	MT
DES.	SWS
DRAWING NUMBER	:

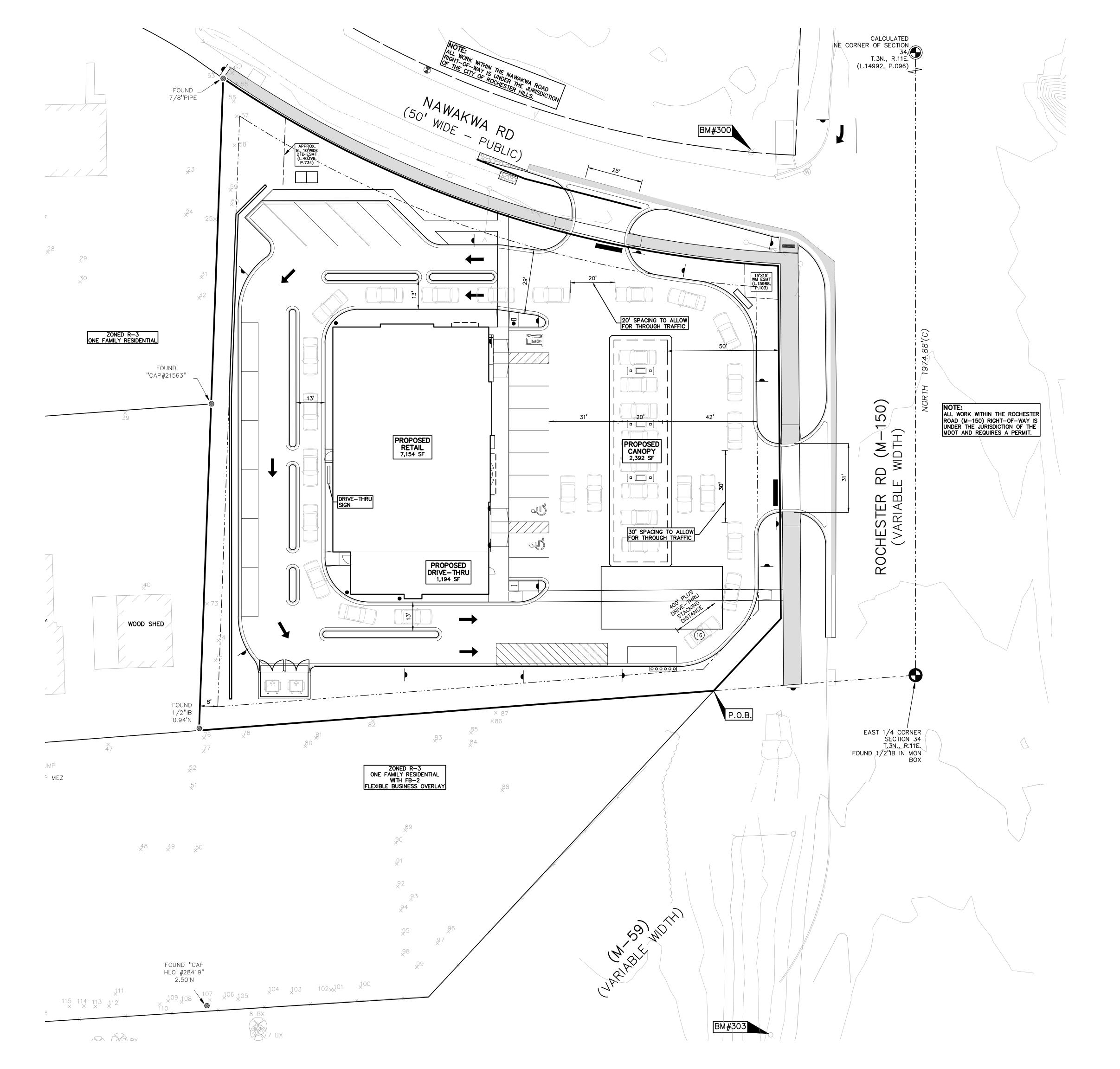
NOT FOR CONSTRUCTION CITY FILE #22-029 SECTION #34

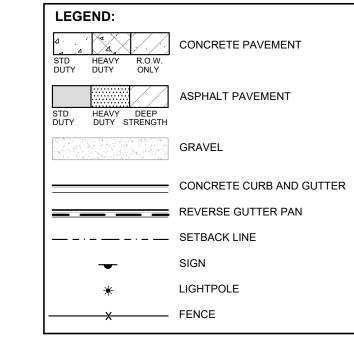


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NOT FOR CONSTRUCTION CITY FILE #22-029 SECTION #34

C-3.1





SITE DATA TABLE:

SITE AREA: 1.33 ACRES (57,985 SF.) NET AND GROSS

ZONING: NB - NEIGHBORHOOD BUSINESS

PROPOSED USE: RETAIL (7,154 SF) / DRIVE THRU (1,194 SF.) / CANOPY (2,392 SF.)

BUILDING INFORMATION:

MAXIMUM ALLOWABLE BUILDING HEIGHT = 30 FT.(2 STORIES)
PROPOSED BUILDING HEIGHT = 1 STORY

TOTAL BUILDING FOOTPRINT AREA = 10,740 SF.

BUILDING LOT COVERAGE = 18.52%

SETBACK REQUIREMENTS: FRONT (EAST) SIDE (NORTH) PROPOSED: 50' (CANOPY 50.04' SIDE (SOUTH) 50.97' REAR (WEST) 53.33

PARKING CALCULATIONS:
RESTAURANT = 1 SPACE PER 2 PERSONS PERMITTED AT MAXIMUM OCCUPANCY
RETAIL PARKING REQUIRED = 60 PERSONS / 2 = 30 SPACES TOTAL PARKING PROVIDED = 30 SPACES

- DRIVE-THRU STACKING

 CITY REQUIRED = 10

 CITY PROVIDED = 16
- MDOT REQUIRED = 400' DRIVE-THRU STACKING DISTANCE MDOT - PROVIDED = 400' STACKING DISTANCE (16)
- LOADING CALCULATIONS:

 REQUIRED = 1 10'x40' LOADING SPACE

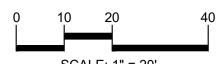
 PROVIDED = 500 SF. (10'x50' SPACE) AT SOUTH SIDE OF PARCEL

SITE SOILS INFORMATION:
ACCORDING TO THE USDA WEB SOIL SURVEY OF OAKLAND COUNTY, THE SITE GENERALLY CONSISTS OF THE FOLLOWING SOIL TYPES:

40A - UDORTHENTS, LOAMY, NEARLY LEVEL ShbuaB - SHEBEON-URBAN LAND COMPLEX, 0 TO 4 PERCENT SLOPES GROUP t: 844.813.2949 www.peagroup.com









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CLIENT

3420 ROCHESTER ROAD, LLC 29200 NORTHWESTERN HIGHWAY, SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

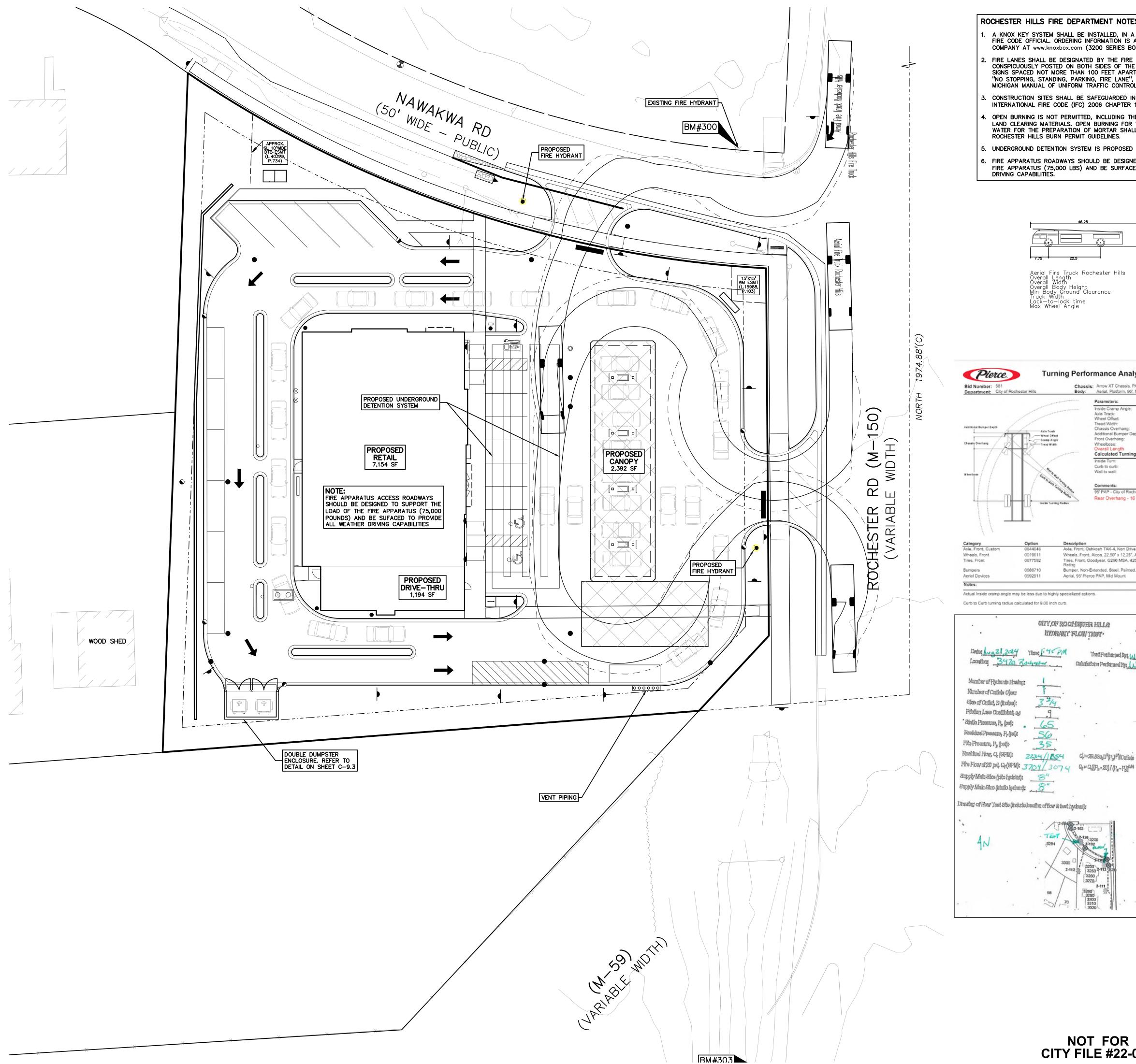
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PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25
PER CITT COMMENTS	02/03/23

ORIGINAL ISSUE DATE: AUGUST 15, 2022

DRAWING TITLE

M.D.O.T. **DRIVE-THRU** STACKING PLAN

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	MT
DES.	SWS
DRAWING NUMBER	•



ROCHESTER HILLS FIRE DEPARTMENT NOTES:

- A KNOX KEY SYSTEM SHALL BE INSTALLED, IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE FROM THE KNOX COMPANY AT www.knoxbox.com (3200 SERIES BOX).
- . FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE (IFC) 2006 CHAPTER 14.
- OPEN BURNING IS NOT PERMITTED, INCLUDING THE BURNING OF TRASH, DEBRIS OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.
- 5. UNDERGROUND DETENTION SYSTEM IS PROPOSED ON-SITE.

Aerial Fire Truck Rochester Hills Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock—to—lock time Max Wheel Angle

Turning Performance Analysis

Chassis: Arrow XT Chassis, PAP/Midmount

Additional Bumper Depth:

Wheelbase: Overall Length Calculated Turning Radii:

Rear Overhang - 16 feet

Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot

Calculation Performed By Warner Ryber

Bumper, Non-Extended, Steel, Painted, Arrow XT Aerial, 95' Pierce PAP, Mid Mount

CITY,OF ROCHESTER HILLS HYDRANT FLOW TEST

Description
Axie, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Qtm/AXT/DCF (425 Tires)

Tires, Front, Goodyear, G296 MSA, 425/65R22.50, 20 ply, Fire Service Load

Inside Cramp Angle

Front Overhang:

Curb to curb:

Wall to wall:

0019611

Axie Track: Tread Width: Chassis Overhang:

Body: Aerial, Platform, 95', Mid-Mount, Alum Body

. FIRE APPARATUS ROADWAYS SHOULD BE DESIGNED TO SUPPORT THE LOAD OF A FIRE APPARATUS (75,000 LBS) AND BE SURFACED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.



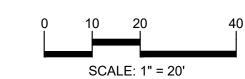
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03/30/2017

82.92 in. 4.68 in. 17.4 in. 68.99 in. 7 in. 75.89 in. 270 in. 46'3"

38 ft. 2 in. 41 ft. 0 in.





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CLIENT

SUITE 450

3420 ROCHESTER ROAD, LLC 29200 NORTHWESTERN HIGHWAY,

FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE 3420 ROCHESTER

ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

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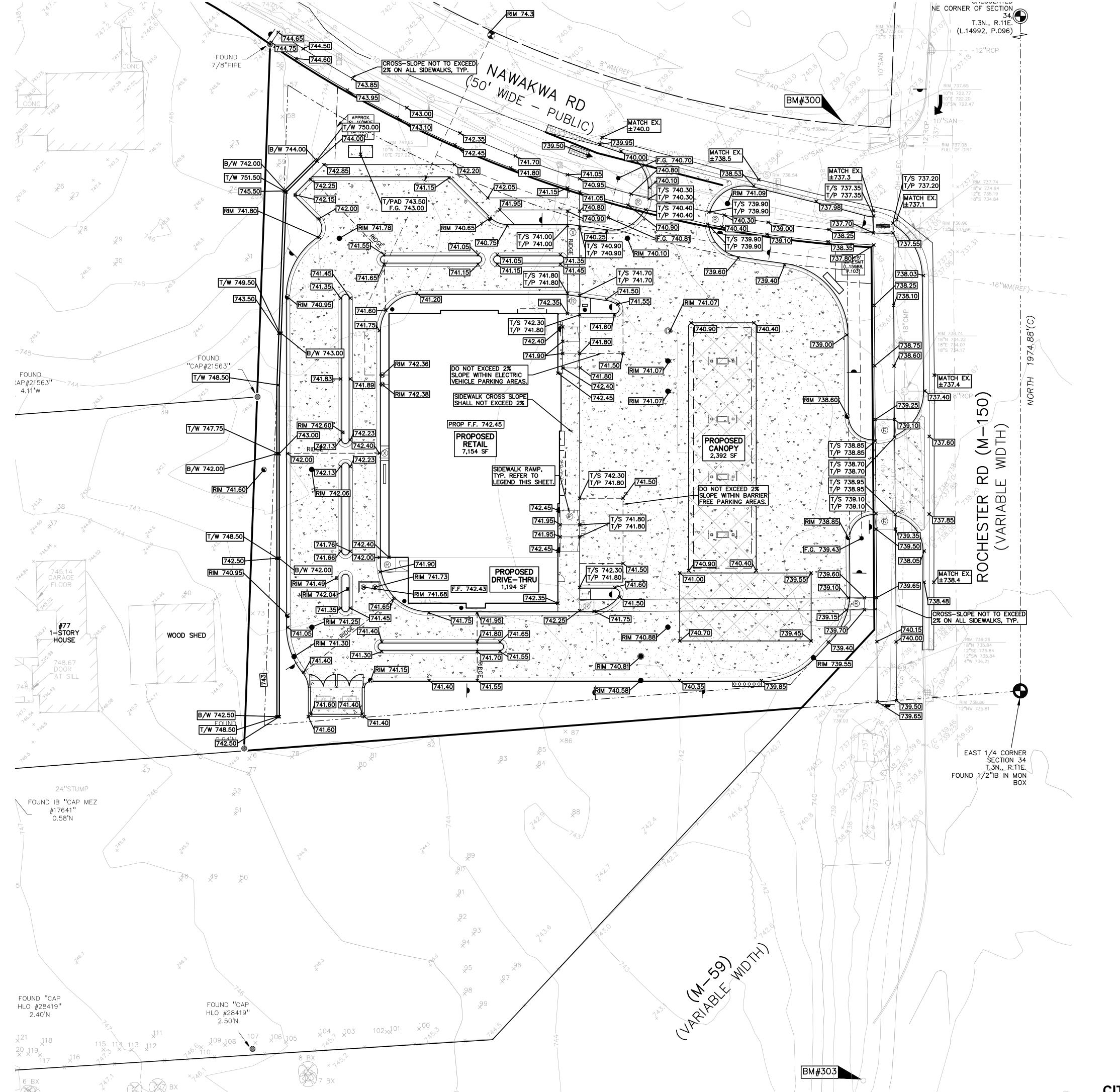
ORIGINAL ISSUE DATE: AUGUST 15, 2022

DRAWING TITLE

FIRE TRUCK TURNING PLAN

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	MT
DES.	SWS
DRAWING NUMBER	

NOT FOR CONSTRUCTION CITY FILE #22-029 SECTION #34



GRADING LEGEND:

EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION: TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE

IN CURB LINES. EXISTING CONTOUR

——922—— PROPOSED CONTOUR PROPOSED REVERSE GUTTER PAI

- - - PROPOSED RIDGE LINE ----- PROPOSED SWALE/DITCH

ABBREVIATIONS

T/C = TOP OF CURB G = GUTTER GRADE T/P = TOP OF PAVEMENT F.G. = FINISH GRADE T/S = TOP OF SIDEWALK F.F. = FINISHED FLOOR T/W = TOP OF WALL B/W = BOTTOM OF WALL

RETAINING WALL NOTE:

TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE

EARTHWORK BALANCING NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

> **BENCHMARKS** (GPS DERIVED - NAVD88 DATUM)

BM #300 ARROW ON HYDRANT AT THE NORTHWEST CORNER OF ROCHESTER ROAD AND NAWAKWA ELEV. - 740.28

BM #301 SET BENCHTIE IN SOUTH FACE OF UTILITY POLE AT THE NORTHWEST CORNER OF NAWAKWA ROAD AND CHERRY ROAD.

BM #302 ARROW ON HYDRANT EAST OF HOUSE #3466 CHERRY ROAD. ELEV. - 748.12

BM #303 DIMPLE ON NORTHWEST BOLT OF STRAIN POLE JUST NORTH OF THE M-59 WEST RAMP. ELEV. - 738.60

SIDEWALK RAMP LEGEND: SIDEWALK RAMP 'TYPE R SIDEWALK RAMP 'TYPE P'

SIDEWALK RAMP 'TYPE X' REFER TO LATEST MDOT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

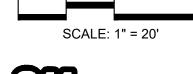
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www.peagroup.com









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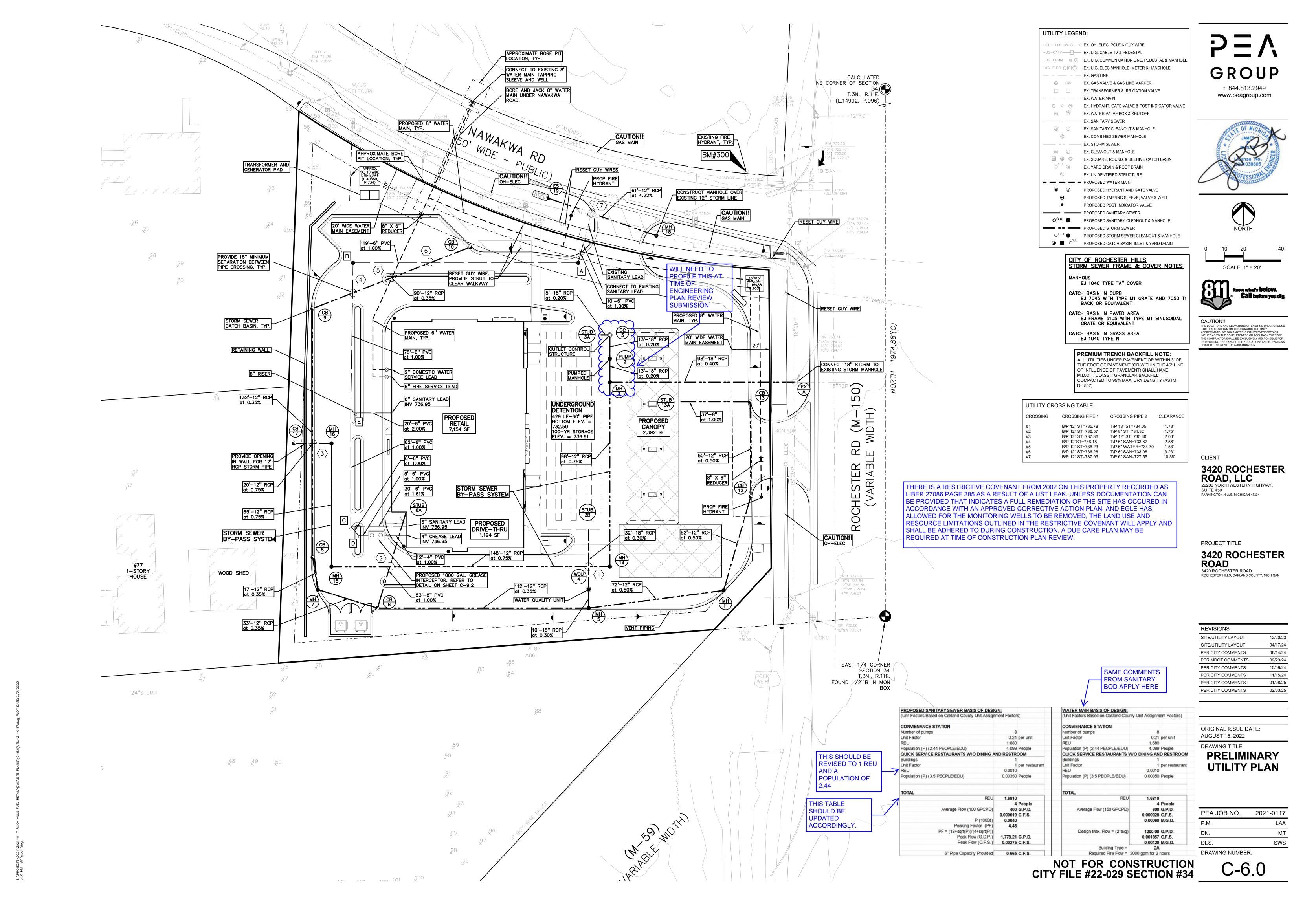
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ORIGINAL ISSUE DATE: AUGUST 15, 2022 DRAWING TITLE

PRELIMINARY GRADING PLAN

	PEA JOB NO.	2021-0117
·	P.M.	LAA
	DN.	MT
	DES.	SWS
,	DRAWING NUMBER:	







750

745

740

735

730

WHEN CROSSING A SEWER, ONE STICK OF
WATER MAIN PIPE SHOULD BE CENTERED
UNDER THE CROSSING SO THAT JOINTS ARE
AS FAR FROM THE CROSSING AS POSSIBLE

PROPOSED INVERT
ELEVATIONS
725

/ COMPACTÉD / /SAND BACKFILL/

8" WATER

90'-12" RCP at 0.35%

UTILITY CROSSING TABLE:

6" SANITARY

CROSSING PIPE 1 CROSSING PIPE 2 CLEARANCE

B/P 12" ST=735.78 T/P 18" ST=734.05 1.73'
B/P 12" ST=737.36 T/P 12" ST=735.30 2.06'
B/P 12"ST=736.18 T/P 6" SAN=733.62 2.56'
B/P 12" ST=736.23 T/P 6" WATER=734.70 1.53'
B/P 12" ST=736.28 T/P 6" SAN=733.05 3.23'

4

6" SANITARY

EXISTING GRADE

-PROPOSED GRADE

132'-12" RCP at 0.35%

PROPOSED RIM
ELEVATIONS



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STORM SEWER PROFILES

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	МТ
DES.	SWS
DRAWING NUMBER:	

750

745

740

735

730

725

HORIZ: 1" = 20' VERT: 1" = 2'

60" PIPE UNDERGROUND DETENTION

COMPACTED
SAND BACKFILL

HYDRAULIC _ GRADE LINE

112'-12" RCP at 0.35%

33'-12" RCP at 0.35% 17'-12"

12" E 734.03 12" N 734.03

12" E 733.92 12" W 733.92 8" N 733.92

10'-18" RCP

0.30%

12" E 733.52 12" W 733.52 18" N 733.12

WQU 4

32'-18" RCP at 0.30%







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PER MDOT COMMENTS	09/23/24
PER CITY COMMENTS	10/09/24
PER CITY COMMENTS	11/15/24
PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25

ORIGINAL ISSUE DATE: AUGUST 15, 2022

DRAWING TITLE

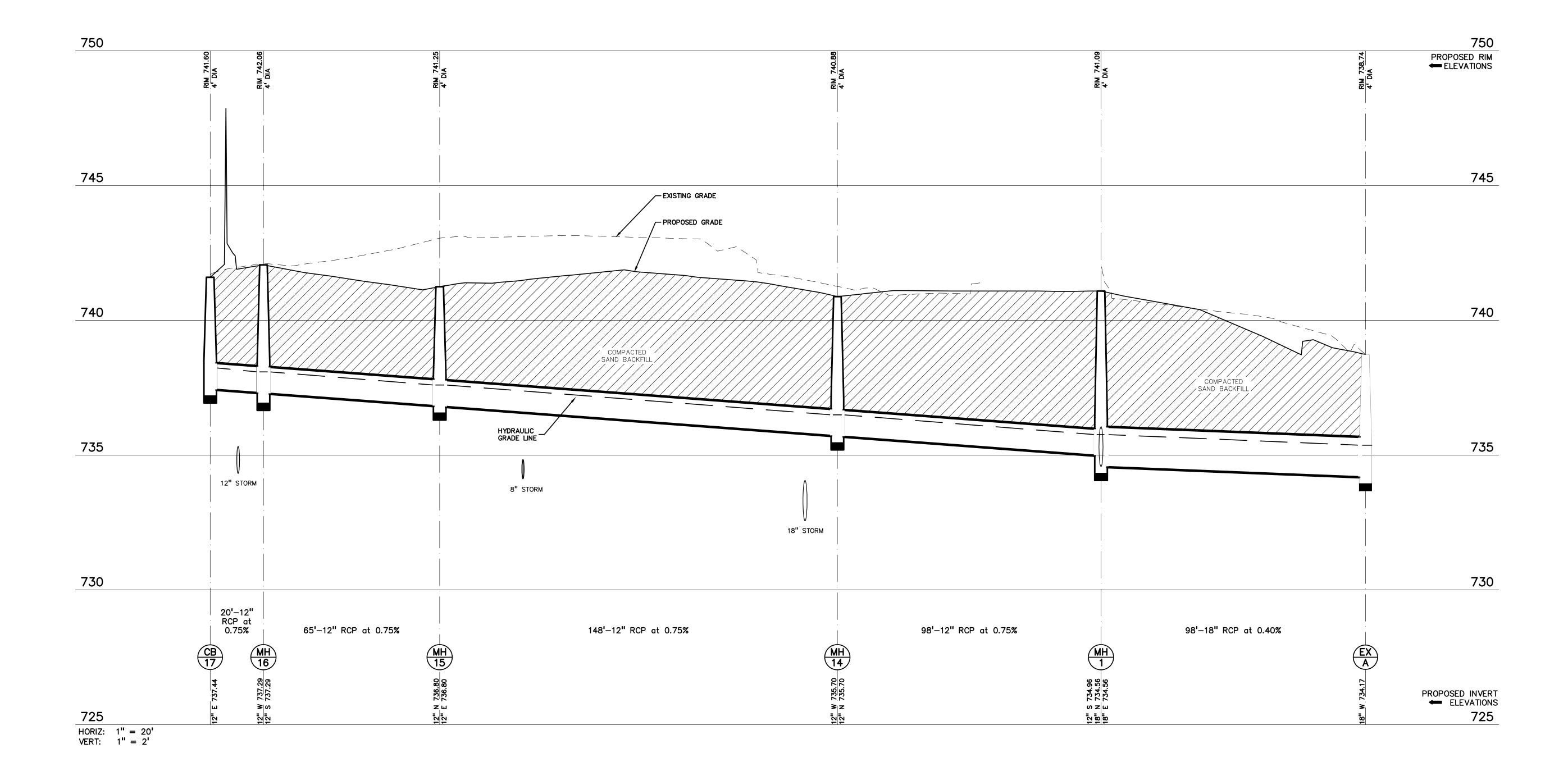
STORM SEWER PROFILES

	PEA JOB NO.	2021-0117
·	P.M.	LAA
	DN.	МТ
	DES.	SWS
,	DRAWING NUMBER:	

UTILITY CROSSING TABLE:

CROSSING CROSSING PIPE 1 CROSSING PIPE 2 CLEARANCE

B/P 12" ST=735.78 T/P 18" ST=734.05 1.73'
B/P 12" ST=737.36 T/P 12" ST=735.30 2.06'
B/P 12" ST=736.18 T/P 6" SAN=733.62 2.56'
B/P 12" ST=736.23 T/P 6" WATER=734.70 1.53'
B/P 12" ST=736.28 T/P 6" SAN=733.05 3.23'









CAUTION!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

3420 ROCHESTER ROAD, LLC
29200 NORTHWESTERN HIGHWAY, SUITE 450
FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER ROAD
3420 ROCHESTER ROAD
ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

REVISIONS	
SITE/UTILITY LAYOUT	12/20/23
SITE/UTILITY LAYOUT	04/17/24
PER CITY COMMENTS	06/14/24
PER MDOT COMMENTS	09/23/24
PER CITY COMMENTS	10/09/24
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DRAWING TITLE

STORM SEWER PROFILES

PEA JOB NO.	2021-0117
P.M.	LAA
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DES.	SWS
DRAWING NUMBER	₹:

PROPOSED RIM
ELEVATIONS

745

740

735

730

PROPOSED INVERT
ELEVATIONS

725

EXISTING GRADE

PROPOSED GRADE

__HYDRAULIC GRADE LINE

> 12" E 733.52 12" W 733.52 18" N 733.12

COMPACTED SAND BACKFILL

72'-12" RCP at 0.50%

745

740

735

730

725

HORIZ: 1" = 20' VERT: 1" = 2' COMPACTED SAND BACKFILL

50'-12" RCP at 0.50%

52'-12" RCP at 0.50%

12" N 734.14 12" S 734.14 12" N 733.89 12" W 733.89

37'-8" at 1.00%

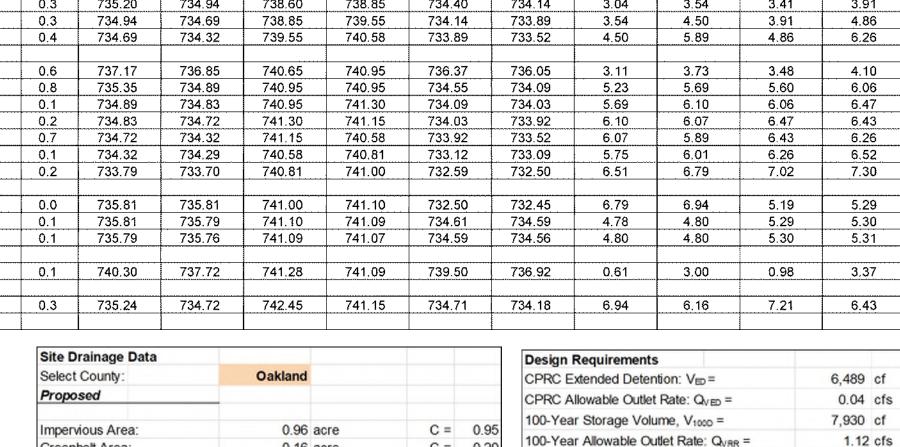
STORM SEWER SYSTEM DESIGN

Region Michigan Location: Oakland County

 $I = B/(T+D) \cap E$ D = 9.17 E = 0.81

C = varies T = 15 (min.) Pipe "n" Value = 0.013

FROM	TO	AREA	COEF.		TOTAL	TOTAL	TIME	INT.	FLOW	PIPE	PIPE	PIPE	PIPE	MIN HG	VEL.	TIME	H.G.L.	ELEV.	RIM E	LEV.	INVERT	ELEV.	PIPE C	OVER	HGL C	OVER
STR	STR	(A)	С	AxC	AREA	AREA	t	I	Q	CAP.	DIA.	LENGTH	SLOPE	PER "Q"	FULL	FLOW	UP	DOWN	ŲР	DOWN	UP	DOWN	UP	DOWN	ŲР	DOWN
		(Acres)	<u> </u>		(AxC)	(Acres) (min.)	(in/hr)	(cfs)	(cfs)	(in.)	(ft.)	(%)		(ft./sec)	(min.)	STREAM									
17	16	2.36	0.34	0.80	0.80	2.36	15.00	3.80	3.05	3.08	12	20	0.75	0.73%	3.9	0.1	738.24	738.09	741.60	742.06	737.44	737.29	3.00	3.60	3.36	3.97
16	15	0.00	0.00	0.00	0.80	2.36	15.10	3.79	3.05	3.08	12	65	0.75	0.73%	3.9	0.3	738.09	737.60	742.06	741.24	737.29	736.80	3.60	3.27	3.97	3.64
15	14	0.00	0.00	0.00	0.80	2.36	15.40	3.75	3.05	3.09	12	148	0.75	0.73%	3.9	0.6	737.60	736.50	741.24	740.88	736.80	735.70	3.27	4.02	3.64	4.38
14	1	0.00	0.00	0.00	0.80	2.36	16.00	3.68	3.05	3.09	12	98	0.75	0.73%	3.9	0.4	736.50	735.76	740.88	741.07	735.70	734.96	4.02	4.94	4.38	5.31
1	Α	0.00	0.00	0.00	0.80	2.36	16.40	3.63	3.05	6.64	18	98	0.40	0.08%	3.8	0.4	735.76	735.37	741.07	738.74	734.56	734.17	4.80	2.86	5.31	3.37
13A	13	0.07	0.95	0.06	0.06	0.07	15.00	3.80	0.24	1.21	8	37	1.00	0.04%	3.5	0.2	735.56	735.20	740.40	738.60	735.03	734.66	4.57	3.13	4.84	3.41
13	12	0.30	0.85	0.26	0.32	0.37	15.20	3.77	1.21	2.52	12	50	0.50	0.12%	3.2	0.3	735.20	734.94	738.60	738.85	734.40	734.14	3.04	3.54	3.41	3.91
12	11	0.26	0.72	0.19	0.51	0.63	15.50	3.74	1.91	2.52	12	52	0.50	0.29%	3.2	0.3	734.94	734.69	738.85	739.55	734.14	733.89	3.54	4.50	3.91	4.86
11	5	0.00	0.00	0.00	0.51	0.63	15.80	3,70	1.91	2.52	12	72	0.50	0.29%	3.2	0.4	734.69	734.32	739.55	740.58	733.89	733.52	4,50	5.89	4.86	6.26
10	9	0.16	0.54	0.09	0.09	0.16	15.00	3.80	0.33	2.11	12	90	0.35	0.01%	2.7	0.6	737.17	736.85	740.65	740.95	736.37	736.05	3.11	3.73	3.48	4.10
9	8	0.09	0.82	0.07	0.16	0.25	15.60	3.72	0.59	2.11	12	132	0.35	0.03%	2.7	0.8	735.35	734.89	740.95	740.95	734.55	734.09	5.23	5.69	5.60	6.06
8	7	0.09	0.74	0.07	0.23	0.34	16.40	3.63	0.83	2.11	12	17	0.35	0.05%	2.7	0.1	734.89	734.83	740.95	741.30	734.09	734.03	5.69	6.10	6.06	6.47
7	6	0.00	0.00	0.00	0.23	0.34	16.50	3.62	0.83	2.11	12	33	0.35	0.05%	2.7	0.2	734.83	734.72	741.30	741.15	734.03	733.92	6.10	6.07	6.47	6.43
6	5	0.09	0.60	0.05	0.46	0.62	16.70	3.59	1.66	2.11	12	112	0.35	0.22%	2.7	0.7	734.72	734.32	741.15	740.58	733.92	733.52	6.07	5.89	6.43	6.26
5	4	0.00	0.00	0.00	0.97	1.25	17,40	3.52	3.42	5.75	18	10	0.30	0.11%	3,3	0,1	734.32	734.29	740.58	740.81	733.12	733.09	5.75	6.01	6.26	6.52
4	3B	0.00	0.00	0.00	0.97	1.25	17.50	3.51	3.42	5.75	18	32	0.30	0.11%	3.3	0.2	733.79	733.70	740.81	741.00	732.59	732.50	6.51	6.79	7.02	7.30
3A	3	0.00	0.00	0.00	0.00	0.00	15.00	3.80	0.00	4.70	18	5	0.20	0.00%	2.7	0.0	735.81	735.81	741.00	741.10	732.50	732.45	6.79	6.94	5.19	5.29
3	2	0.00	0.00	0.00	0.00	0.00	15.00	3.80	0.00	4.70	18	13	0.20	0.00%	2.7	0.1	735.81	735.79	741.10	741.09	734.61	734.59	4.78	4.80	5.29	5.30
2	1	0.00	0.00	0.00	0.00	0.00	15.10	3.79	0.00	4.70	18	13	0.20	0.00%	2.7	0.1	735.79	735.76	741.09	741.07	734.59	734.56	4.80	4.80	5.30	5.31
19	18	0.00	0.00	0.00	0.00	0.00	15.00	3,80	0.00	7.32	12	61	4.22	0.00%	9.3	0.1	740.30	737.72	741.28	741.09	739.50	736.92	0.61	3.00	0.98	3.37
																						-			-	
6A	6	0.19	0.95	0.18	0.18	0.19	15.00	3.80	0.69	1.21	8	53	1.00	0.33%	3.5	0.3	735.24	734.72	742.45	741,15	734.71	734.18	6.94	6.16	7.21	6.43



0.20			
	Underground Detention Storage		
	Required Storage Volume:	7,930	cf
	Pipe Diameter:	60	in
	Pipe Volume per Linear Foot:	19.63	cf/lf
	Total Pipe Length, L:	429	ft
	Pipe Storage Volume:	8,423	cf
2.02	Storage in Stone Backfill?	N	
	Porosity	0	%
	Stone Storage Volume:	0	cf
	Stone Storage Volume per Linear Foot:	0.00	cf/lf
	Provided System Volume:	8,423	cft
	Lowest Grade over system:	741	
	Required Cover over system:	2.00	ft
	Invert of Detention System:	732.50	
	Invert of OCS:	732.45	
	Storage in Circular Pipe Detention System		
	Effective End Area of Pipe:	19.63	sf
on	Effective Diameter of Pipe:	5.00	ft

Effective Diamet	er of Pipe:	5.00	ft
Invert of System		732.45	
CPRC Volume		6,489	cf
Fill Area of CPR	C Storage Volume (CPRC/L):	15.13	sf
Ф:		232.10	degrees
Ф:		4.05	radians
Fill Area:		15.12	sf
Effective Fill Dep	th (per method above):	3.60	ft
V _{ED} Storage Elev	ation:	736.05	
Fill Depth:		3.60	ft
Orifice Design			
Q _{VED} Outlet Rate	c .	0.04	cfs

Orifice Design			
Q _{VED} Outlet Rate:		0.04	cfs
Avg. Head over Orifice (I	Hw): h=0.5y	1.80	ft
Area of Orifice (A):		0.0056	sf
A=Q _R /(0.	62*SQRT(2*g*Hw)		
Enter Outlet Hole Diamet	er:	1	in
Restriction Hole Area:		0.0055	sft
Enter Number of Restrict	tion Holes:	1	
Set orifice elevation at		732.45	
Total Restriction Hole Are	ea:	0.005	sft
Actual Discharge (Q)		0.036	cfs
Q = 0.62	* A * (2 * G * Hw)^0	.5	
Must be detained for at le	east 48 hours:		
Drain Time:		49.55	hrs
100-Year Volume		7,930	cf
Fill Area of 100-Year Vol	lume.	18 49	cf

Drain Time:	49.55	hrs
100-Year Volume	7,930	cf
Fill Area of 100-Year Volume:	18.49	sf
Ф:	283.13	degrees
Ф:	4.94	radians
Fill Area:	18.49	sf
Effective Fill Depth (per method all	oove): 4.46	ft
V _{DET} Storage Elevation:	736.91	
Fill Depth:	4.46	ft
Orifice Design		
Q _{VRR} Outlet Rate:	1.12	cfs

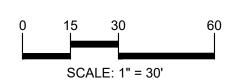
т ш осрат.		4.40	
Orifice Design			
Q _{VRR} Outlet Rate:		1.12	cfs
Flow through QVED Orifice at this	head:	0.057	cfs
Q _{100D} Allowed:		1.06	cfs
Residual Head over Orifice (Hre-	s):	0.86	ft
Area of Orifice (A):		0.2303	sf
A=QR/(0.62*SQI	RT(2*g*Hres)		
Outlet Hole Diameter:		6.25	in
Restriction Hole Area:		0.2129	sf
Number of Restriction Holes:		1	
Set orifice elevation at		736.05	
Total Restriction Hole Area:		0.2129	sf
Actual Discharge (Q)		1.04	cfs
A=QR/(0.62*SQI	RT(2*g*Hw)		
Is this less than the Q _{VRR} of	1.12 cfs ?	Yes	
Drain Time:		49.91	hrs

				7	
	4	DOODE	OF MIC	HICA	-
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	and Live	4	ense N	WEER	an
/	8	X		IN CHOO	

GROUP

www.peagroup.com







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3420 ROCHESTER

ROAD, LLC
29200 NORTHWESTERN HIGHWAY, SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE **3420 ROCHESTER**

ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

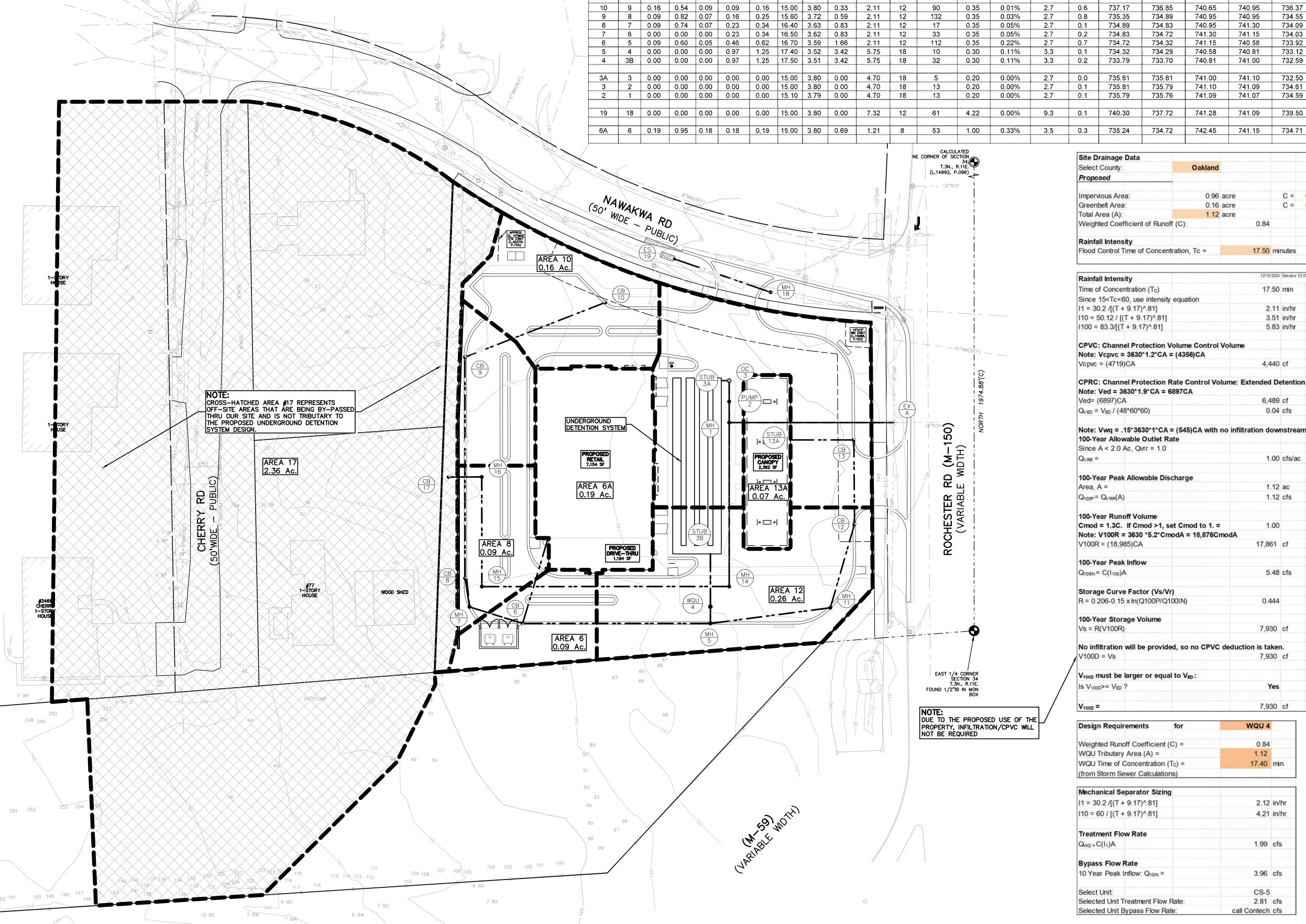
REVISIONS	
SITE/UTILITY LAYOUT	12/20/23
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PER CITY COMMENTS	02/03/25
·	

ORIGINAL ISSUE DATE: AUGUST 15, 2022 **DRAWING TITLE**

> **DRAINAGE AREA MAP**

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	MT
DES.	SWS
DRAWING NUMBER	:

NOT FOR CONSTRUCTION CITY FILE #22-029 SECTION #34



GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.

- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN
- ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE

PAVING NOTES:

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- PROVIDE EXPANSION JOINTS AND JOINT SEALANT AT TWO "END-OF-RADIUS" LOCATIONS (OPPOSITE SIDES AT EACH LONG END) OF CONCRETE CURB ISLANDS.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
- CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
- CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION; 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT, THE
- JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2 INCH TO ALLOW FOR SEALING 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT) PROVIDE 5/8"DOWELS EVERY 30"CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO
- COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SFALANT
- 5.4. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
- 5.5. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS; 5.5.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12'
- 5.5.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15' 5.6. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY
- THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA TH SUBMITTAL PROCESS 5.7. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR
- REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. . CONCRETE CURBING JOINTING — UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING
- JURISDICTION: 6.1. WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH
- 6.2. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOIN" WITH SEALANT
- 6.3. WHERE PROPOSED CONCRETE ABUTS EXISTING CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT 6.4. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT)
- CARRY THE REBAR CONTINUOUSLY BETWEEN POURS IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY THEN TIE TWO PIECES OF REBAR PER THE
- LATEST MDOT SPECIFICATIONS 6.5. CONTROL JOINTS SHALL BE PLACED A MAXIMUM 10' CENTER TO CENTER AND AT ALL RADIUS RETURNS

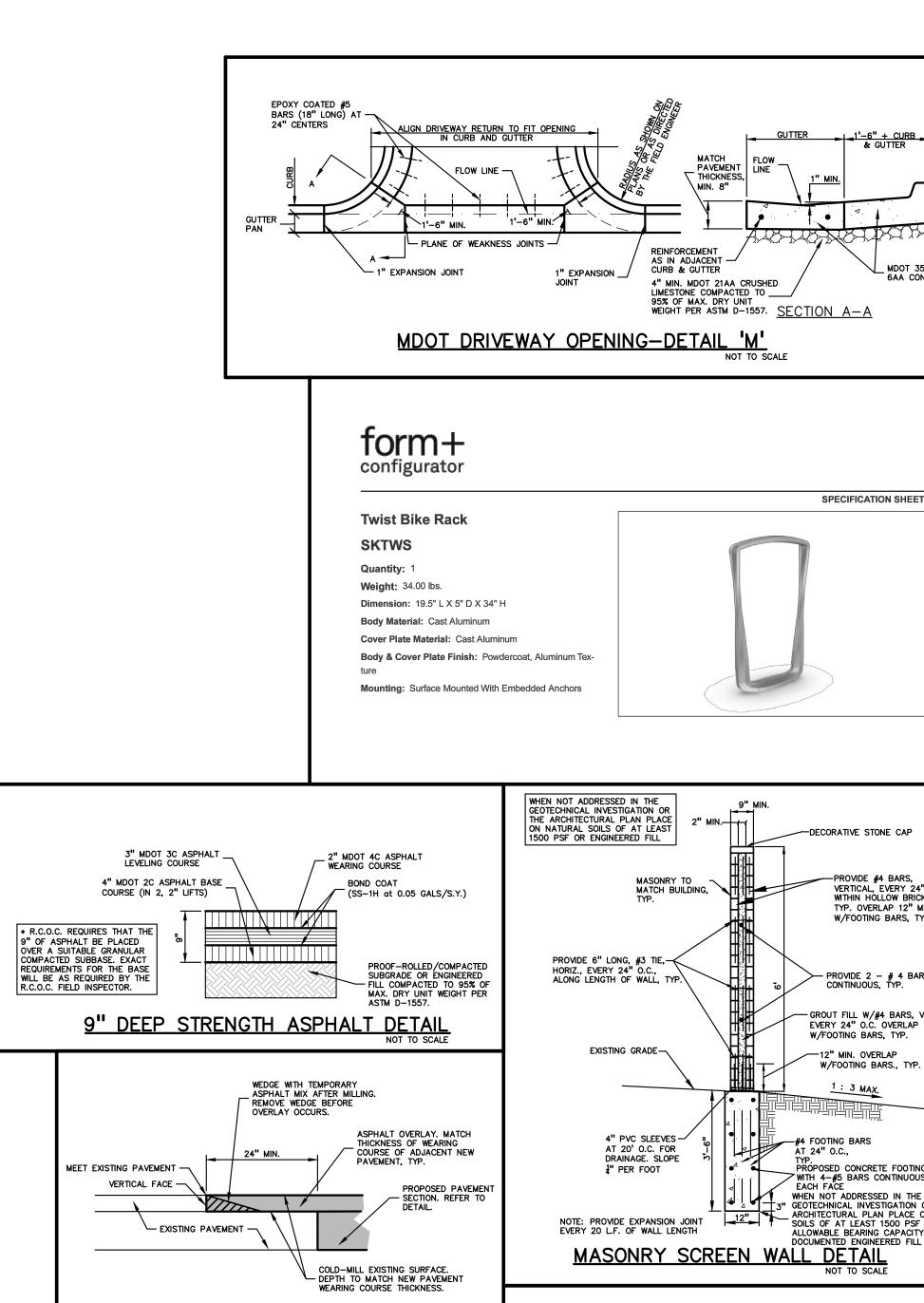
GENERAL GRADING AND EARTHWORK NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT

- CONTRACTOR TO FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE
- . ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM OAKLAND COUNTY PRIOR
- . ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES (WILL BE PART OF FINAL SITE PLAN/ENGINEERING PLANS).
- ALL SLOPES EXCEEDING 1:6 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.

PROVIDE A MINIMUM OF 4" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.

- 8. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS.
- THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
- 10. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- 11. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
- 12. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- 13. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.
- 14. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE



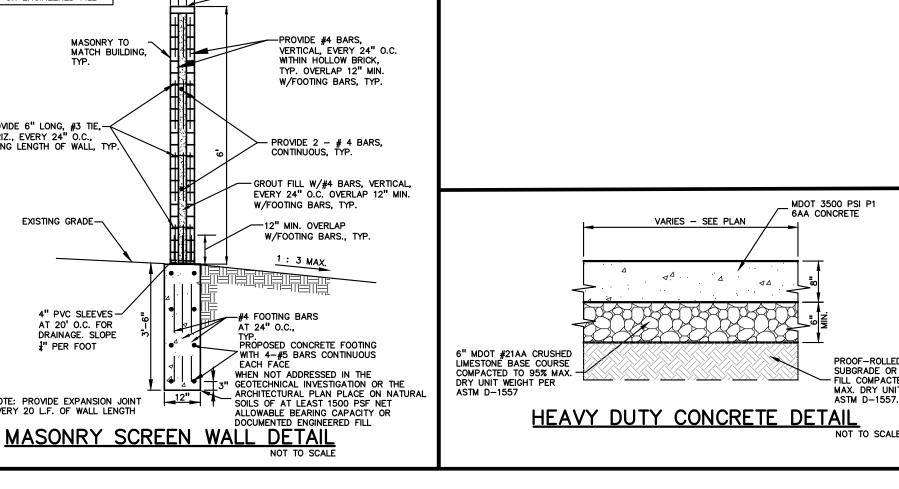
BUTT JOINT DETAIL

GRAVEL SHOULDER DETAIL

COURSE COMPACTED TO 95% MAX. — DRY UNIT WEIGHT PER ASTM D-1557

PROOF-ROLLED / COMPACTED SUBGRADE OR ENGINEERED FILL COMPACTED TO 95% O

MAX. DRY UNIT WEIGHT PER ASTM D-1557.



NOTE: CROSS-SLOPE OF SIDEWALK MUST NOT

4" MDOT CLASS II SAND BASE COURSE COMPACTED TO 95% MAXIMUM DRY UNIT WEIGHT PER ASTM D-1557

4" MDOT CLASS II SAND

SUBGRADE OR ENGINEERED MAX. DRY UNIT WEIGHT PER

EXCEED 2.0%, EXCEPT IN TRANSITION AREA MATCHING INTO EXISTING SIDEWALK

WIDTH VARIES - SEE PLAN

CONCRETE SIDEWALK

AS INDICATED ON PLANS

6AA CONCRETE

PROVIDE 1" DEPTH SAWCUT CONTROL JOINTS AT INTERVALS EQUAL TO THE WIDTH OF THE

4" MDOT 3500 PS P1 6AA CONCRETE

PROOF-ROLLED / COMPACTED

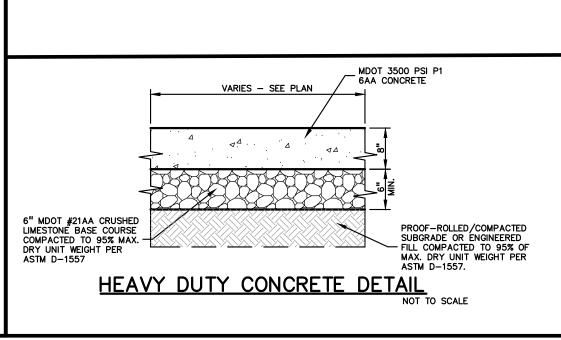
ASPHALT PAVING -

1" RADIUS

SUBGRADE OR ENGINEERED

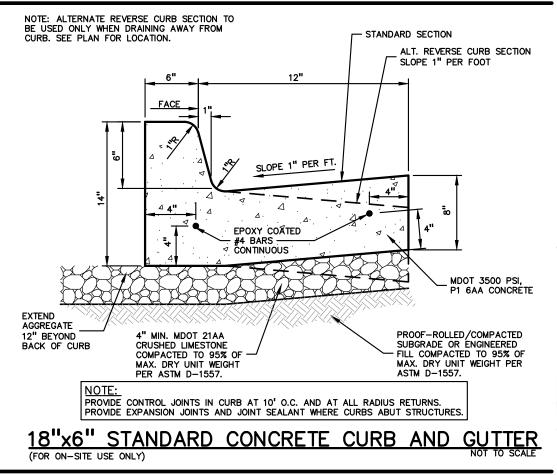
— FILL COMPACTED TO 95% O

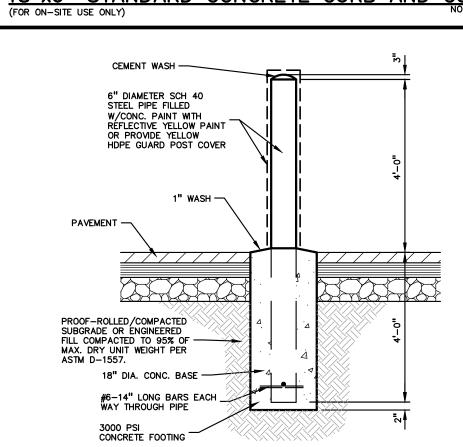
SIDEWALK (NOT TO EXCEED 8' INTERVAL).



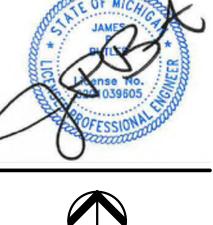
CONTRACTION JOINTS TO BE T/4 DEEP. SPACED AT INTERVALS TO MATCH SIDEWALK WIDTH (SAWCUT). 1/2-INCH PRE-MOLDED FILLER EXPANSION JOINTS WITH JOINT

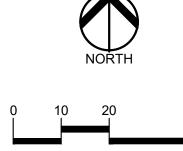
INTEGRAL CURB AND SIDEWALK





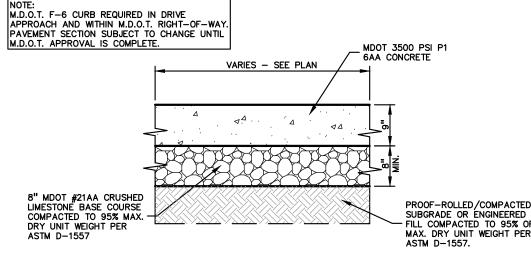








CAUTION THE LOCATIONS AND ELEV JTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOI HE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



6" DIA. GUARD POST DETAIL

3420 ROCHESTER

PROJECT TITLE

3420 ROCHESTER ROAD

ROAD

REVISIONS SITE/UTILITY LAYOU

SITE/UTILITY LAYOUT PER CITY COMMENTS

PER MDOT COMMENTS

PER CITY COMMENTS

PER CITY COMMENTS

PER CITY COMMENTS

PER CITY COMMENTS

ORIGINAL ISSUE DATE:

NOTES AND

DETAILS

AUGUST 15, 2022

DRAWING TITLE

3420 ROCHESTER

ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

12/20/23

04/17/24

06/14/24

09/23/24

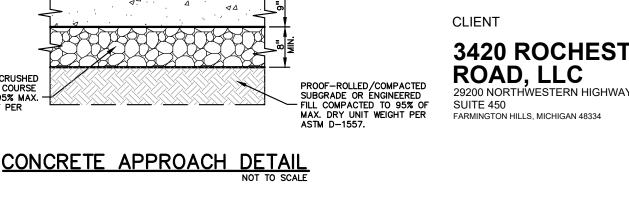
10/09/24

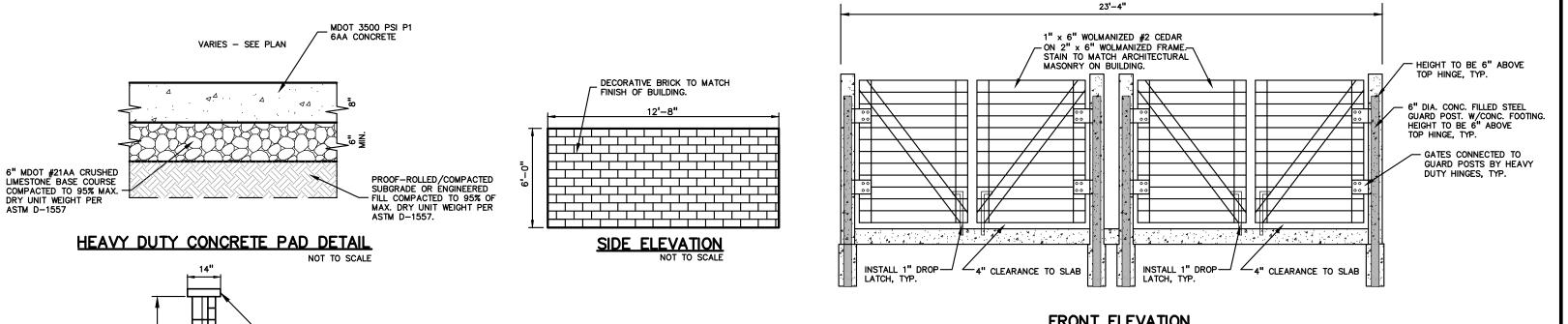
11/15/24

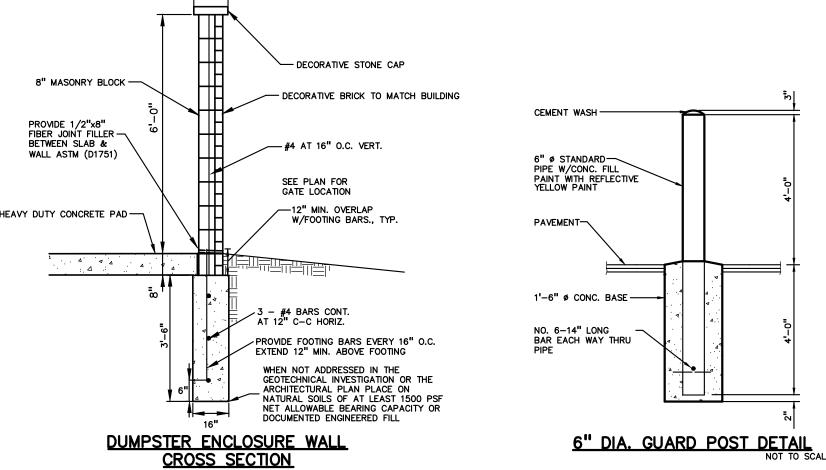
01/08/25

02/03/25

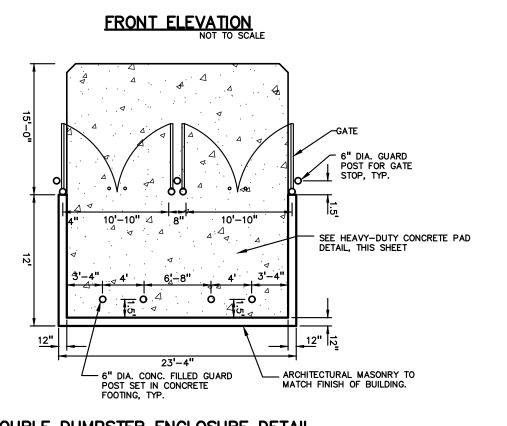
2021-0117







DOUBLE TRASH ENCLOSURE DETAILS



PEA JOB NO. DOUBLE DUMPSTER ENCLOSURE DETAIL

MT SWS DRAWING NUMBER:

NOT FOR CONSTRUCTION **CITY FILE #22-029 SECTION #34**

GENERAL BARRIER FREE NOTES:

THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN - AMERICANS WITH DISABILITIES ACT 2010", AND "ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES", ICC/ANSI A117.1-2009. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH

ARE AVAILABLE IN FULL UPON REQUEST. 1. AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND

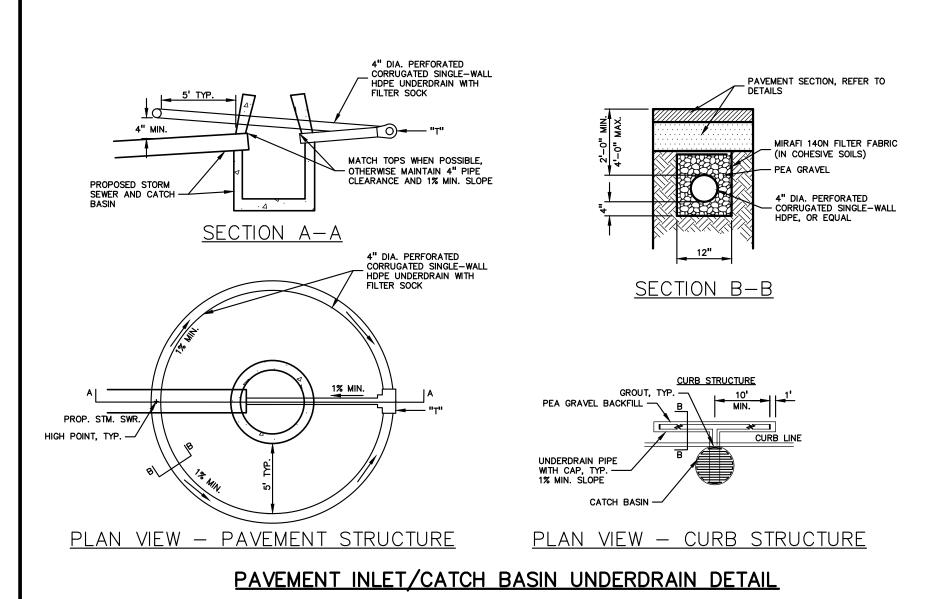
PUBLIC TRANSPORTATION STOPS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE.

- 2. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS-SLOPE SHALL NOT EXCEED 2% (1:48). 3. WALKING SURFACES MUST BE LEVEL WITH PÉRMITTED VERTICAL CHANGES IN LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO EXCEED 1/2". REFER TO DETAIL ON
- THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED. 4. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET WIDE IN ALL
- DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY DIRECTION. 5. ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE. THE MINIMUM
- CLEAR WIDTH IS 3 FEET. 6. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER THAN 5% (1:20) AND LESS THAN 8.3% (1:12).
- 7. THE CROSS-SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48)
- 8. THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES. 9. THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALL NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF EACH RAMP. LANDINGS SHALL HAVE A CROSS-SLOPE NOT EXCEEDING 2% (1:48), SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET LONG.
- 10. HANDRAILS ARE REQUIRED FOR ANY RAMP (NOT INCLUDING CURB RAMPS) WITH A RISE GREATER THAN 6 INCHES. ALL HANDRAILS ARE REQUIRED TO HAVE EDGE PROTECTION UNLESS ADJOINING ANOTHER ACCESS POINT OR IF THE VERTICAL DROP-OFF AT THE EDGE OF THE RAMP DOES NOT EXCEED 1/2" IN 10 FEET. EDGE PROTECTION CAN BE PROVIDED BY MEANS OF A 4" MIN. CURB OR BARRIER.
- 11. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDÈWALKS, PAVEMENT, GUTTERS ETC.
- 12. IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER THAN 10% (1:10)... 13. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED
- 14. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. 15. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.
- 16. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE VAN ACCESSIBLE
- SPACE SHALL BE PROVIDED. 17. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE.
- 18. BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 11 FEET WIDE WITH AN ACCESS AISLE 5 FEET WIDE MINIMUM. 19. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT EXCEED 2% (1:48)
- 20. ACCESSIBLE AREAS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM
- VERTICAL CLEARANCE OF 98 INCHES. 21. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED

ENDS

BLACK ON YELLOW REFLECTORIZED 7'-0" MOUNTING HEIGHT

TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.



HEAVY DUTY CAST

IRON HOUSING W/ SECURED COVER —

E.J.I.W. #1565 OR APPROVED EQUAL

TOP SHOWN FOR CONC. PVMT. | TOP SHOWN FOR BIT. PVMT.

7112.4.2.211.

CLEANOUT

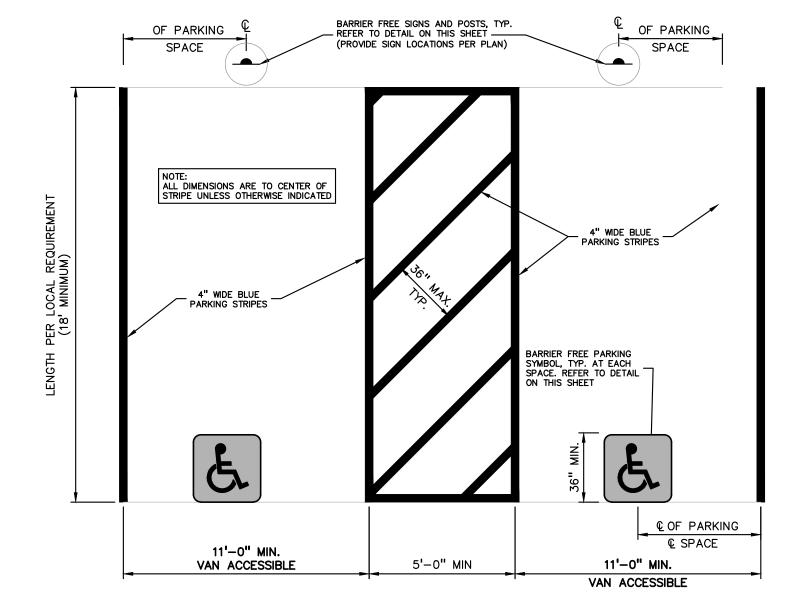
4"-45° BEND -

WYE FITTING OF SAME MATERIAL AS —

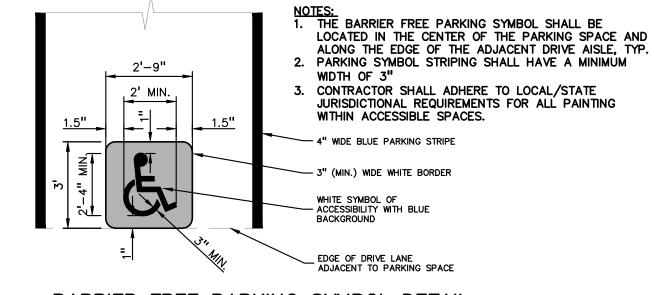
ADJACENT SEWER

(IN ASPHALT PAVEMENT)

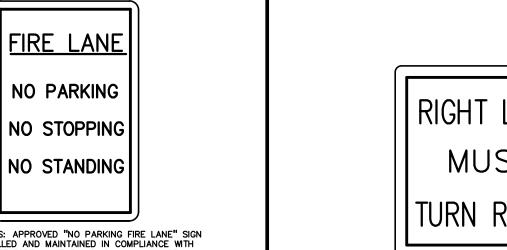
ENCASEMENT



UNIVERSAL BARRIER FREE PARKING STALL DETAIL



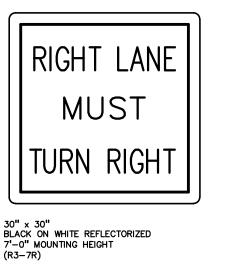
BARRIER FREE PARKING SYMBOL DETAIL (INTERNATIONAL SYMBOL OF ACCESSIBILITY)



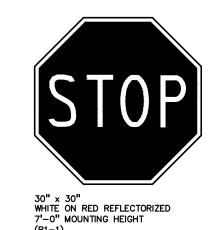
 FIRE LANE SIGNS: APPROVED "NO PARKING FIRE LANE" SIGN MUST BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH THE CRITERIA SET FORTH IN THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SOME OF THE CRITERIA IS AS FOLLOWS: SIGN SHALL BE RED LETTERING ON WHITE BACKGROUND AND SHALL READ, "FIRE LANE. NO PARKING. NO STOPPING. NO SIGNS SHALL BE SPACED NO FURTHER THAN 100 FEET APART SIGNS SHALL BE INSTALLED AT A RIGHT ANGLE 90° TO CURB SIGN SHALL BE SEVEN (7) FEET FROM THE BOTTOM OF SIGN TO GRADE

SIGNS SHALL BE DOUBLE FACED WHERE SHOWN ON PLANS.
SIGNS SHALL BE 12 INCHES IN WIDTH AND 18 INCHES IN

FIRE LANE SIGN DETAIL NOT TO SCALE

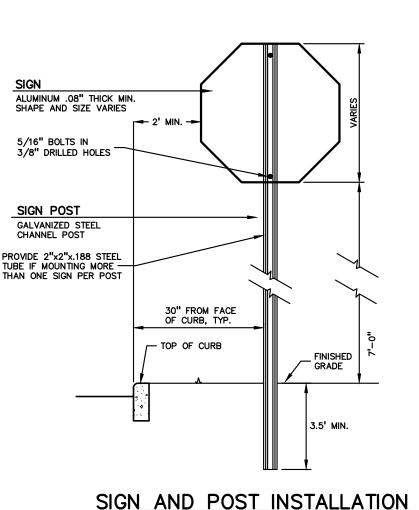


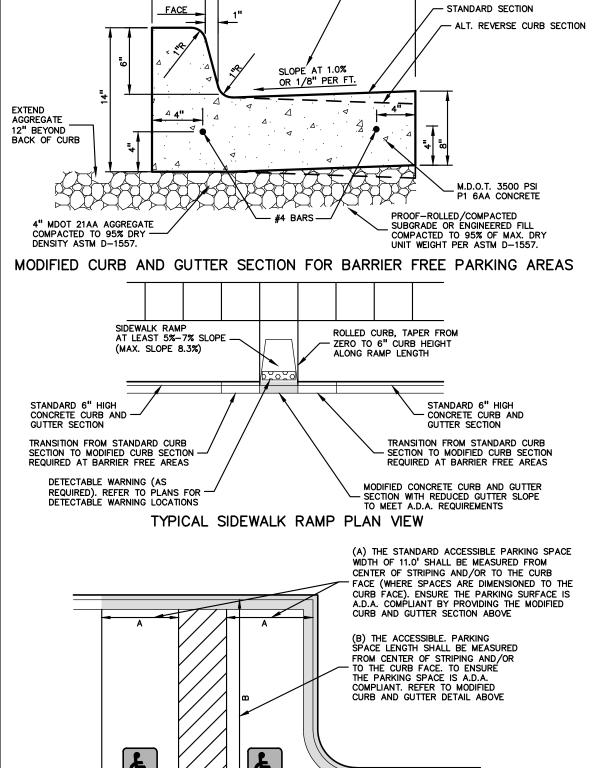
RIGHT LANE MUST TURN RIGHT SIGN DETAIL



STOP SIGN DETAIL







TYPICAL BARRIER FREE PARKING SPACES

MODIFIED 18"x6" CONCRETE CURB AND GUTTER

DETAIL TO BE USED IN BARRIER FREE AREAS

BARRIER FREE SIGN NOTES:

A MINIMUM OF 3 FEET LONG.

AND LOCAL REQUIREMENTS.

1. ONE SIGN IS REQUIRED AT EACH BARRIER FREE PARKING SPACE.

3. WHEN TWO BARRIER FREE PARKING SPACES ARE ADJACENT AND FACING EACH

OTHER, TWO SIGNS ARE REQUIRED, BUT CAN BE MOUNTED ON THE SAME POST.

4. SIGN POSTS SHALL BE 2" NOM. SQUARE 14-GAUGE GALVANIZED STEEL TUBE WITH

5. ANCHOR POSTS SHALL BE 2.25" NOM. SQUARE 12-GAUGE GALVANIZED STEEL POST,

6. IF THESE NOTES AND DETAILS CONFLICT WITH LOCAL CODES AND ORDINANCES, THE

12"x18" x 0.080" ALUMINUM BARRIER

TO STEEL TUBE WITH 38" CADMIUM PLATED BOLTS, NUTS, AND WASHERS.

6"x12" x 0.080" ALUMINUM VAN

SECONDARY/PENALTY SIGNAGE PER JURISDICTIONAL
REQUIREMENTS WHERE APPLICABLE

BOLLARD A MINIMUM OF 2'-0".

APPLICABLE.

- ACCESSIBLE SIGN (R7-8P) WHERE

2"x2"x.188" GALVANIZED STEEL TUBE. EXTEND INTO CONCRETE FILLED PIPE

6" DIA, SCHEDULE 40 GALVANIZED STEEL PIPE FILLED WITH CONCRETE (WHEN SIGN IS LOCATED

WITH 1% FINISHED SLOPE. PAINT BOLLARD WITH 2 COATS OF SAFETY YELLOW PAINT, OR PROVIDE YELLOW BOLLARD SLEEVE...

RESERVED

PARKING

ONLY

ACCESSIBLE

REDUCE GUTTER PAN SLOPE TO 1.0%

TARGET SLOPE (2.0% MAX) AT BARRIER
FREE PARKING SPACE LOCATIONS

IN PAVED AREA OR SIDEWALK). PROVIDE

ROUNDED WASH AT TOP OF CONCRETE FILL

18" DIA. CONCRETE FOOTING USING

- M.D.O.T. 'P1' CONCRETE, 3500 PSI, 6AA OR APPROVED EQUAL

INSTALL BREAKAWAY TUBE POST

IN SIGN LOCATIONS WHERE PIPE BOLLARD IS NOT REQUIRED.

- PAVEMENT SURFACE

GREEN BORDER AN

LEGEND WHITE SYMBOL, BLUE BACKGROUND.

GREEN BORDER AND

REFLECTORIZE

MAY ONLY BE USED AT

11' WIDE SPACES LOCATED
ON THE LEFT SIDE OF A
5' WIDE AISLE, OR 8' WIDE
SPACES LOCATED TO THE

LEFT OF 8' WIDE AISLES

REFLECTORIZED

FREE PARKING SIGN (R7-8). BOLT SIGN

7. ALTERNATE MATERIALS MAY BE USED IF IN COMPLIANCE WITH A.D.A. GUIDELINES

BARRIER FREE SIGN AND POST DETAIL

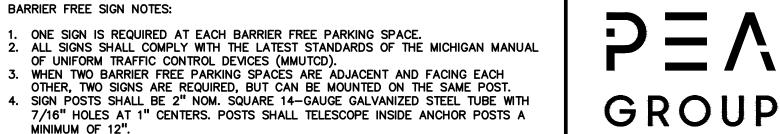
NOTE: ALTERNATE REVERSE CURB SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB. SEE PLANS FOR LOCATION.

7/16" HOLES AT 1" CENTERS. POSTS SHALL TELESCOPE INSIDE ANCHOR POSTS A

OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).

STRICTER REQUIREMENT SHOULD BE USED.

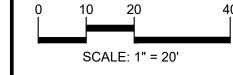
NOT FOR CONSTRUCTION **CITY FILE #22-029 SECTION #34**



t: 844.813.2949 www.peagroup.com









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3420 ROCHESTER PARKING SIGN DETAIL ROAD, LLC 29200 NORTHWESTERN HIGHWAY

> SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER **ROAD** 3420 ROCHESTER ROAD

ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

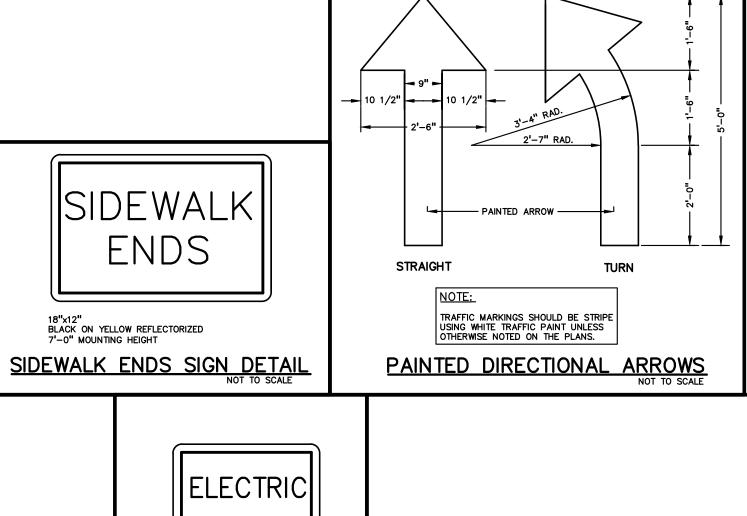
REVISIONS	
SITE/UTILITY LAYOUT	12/20/23
SITE/UTILITY LAYOUT	04/17/24
PER CITY COMMENTS	06/14/24
PER MDOT COMMENTS	09/23/24
PER CITY COMMENTS	10/09/24
PER CITY COMMENTS	11/15/24
PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25

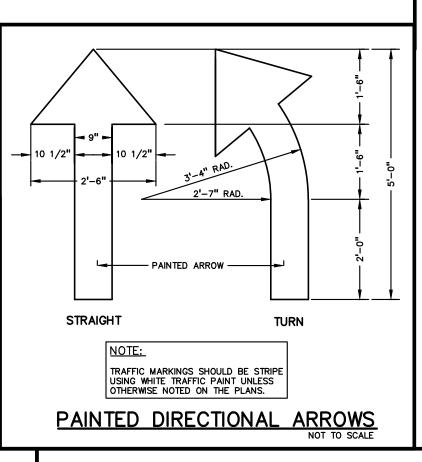
ORIGINAL ISSUE DATE: AUGUST 15, 2022

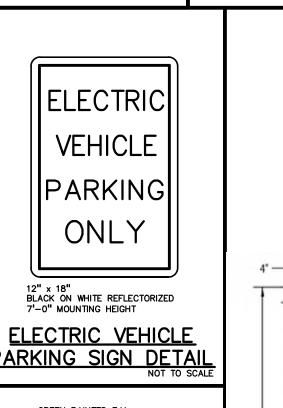
DRAWING TITLE **NOTES AND DETAILS**

PEA JOB NO.	2021-0117	
P.M.	LAA	
DN.	MT	
DES.	SWS	
DRAWING NUMBER:		

C-9.2

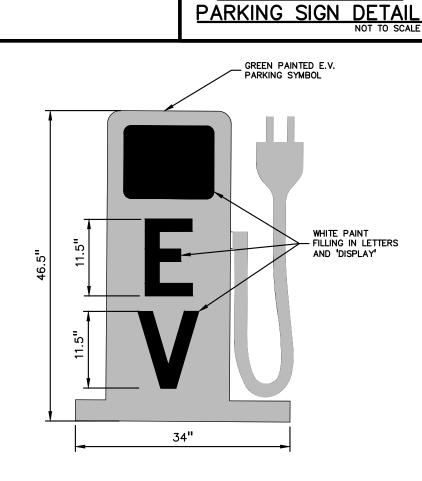




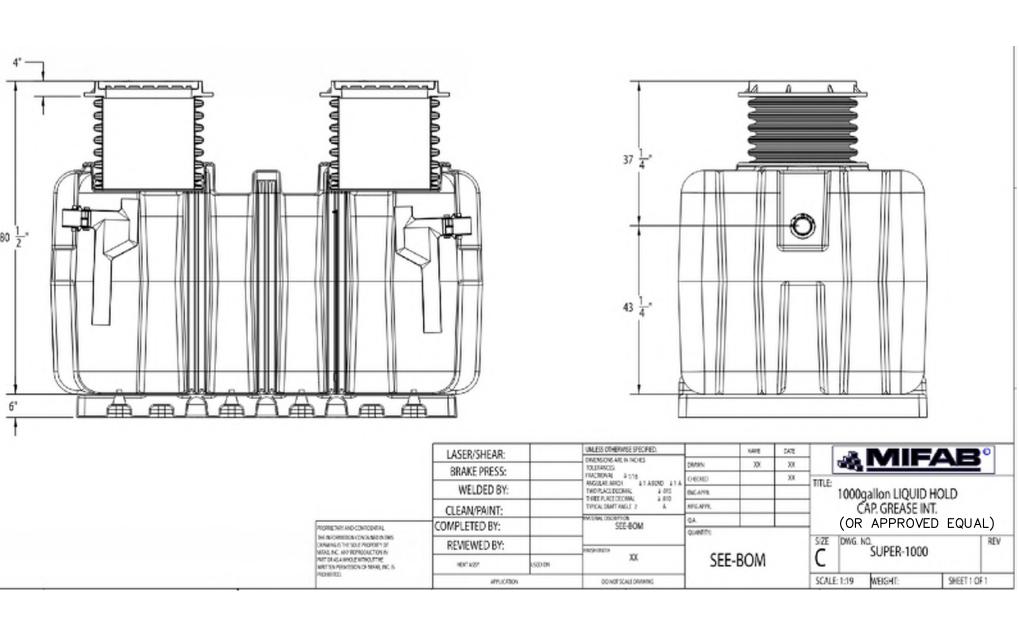


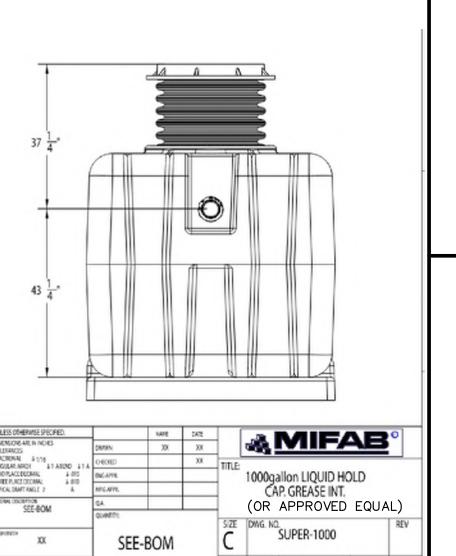
ONLY

7'-0" MOUNTING HEIGHT



EV PARKING SYMBOL





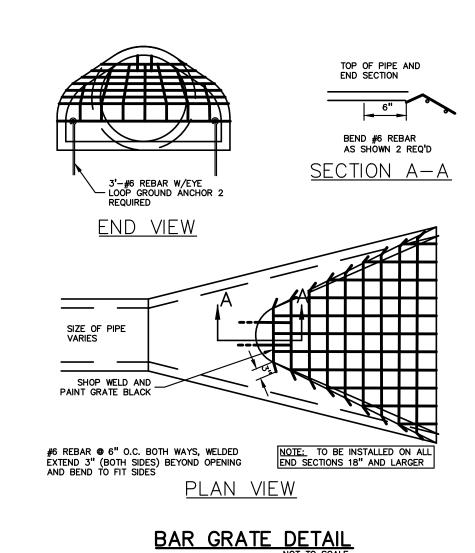
DO NOT ENTER SIGN DETAIL

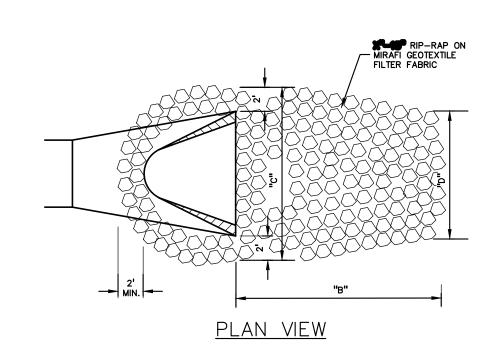
30" x 30"
RED ON WHITE REFLECTORIZED
7'-0" MOUNTING HEIGHT

PROVIDE 2"x2"x.188 STEEL TUBE IF MOUNTING MORE — THAN ONE SIGN PER POST

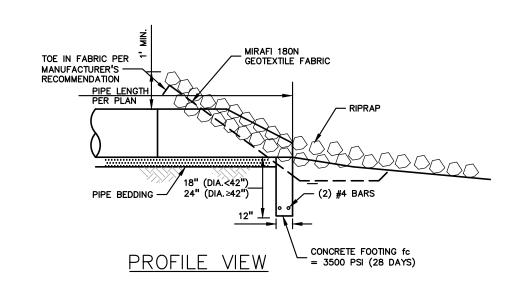
SIGN AND POST INSTALLATION IN LANDSCAPED AREAS

1000 GALLON GREASE TRAP

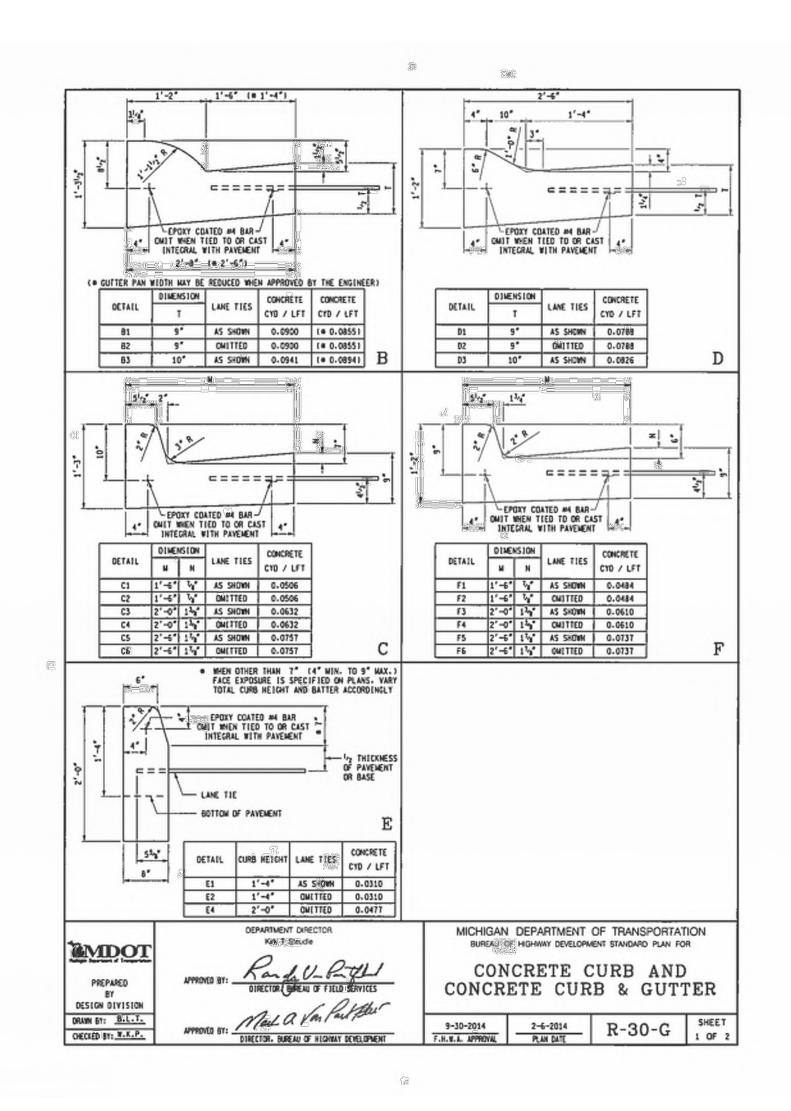


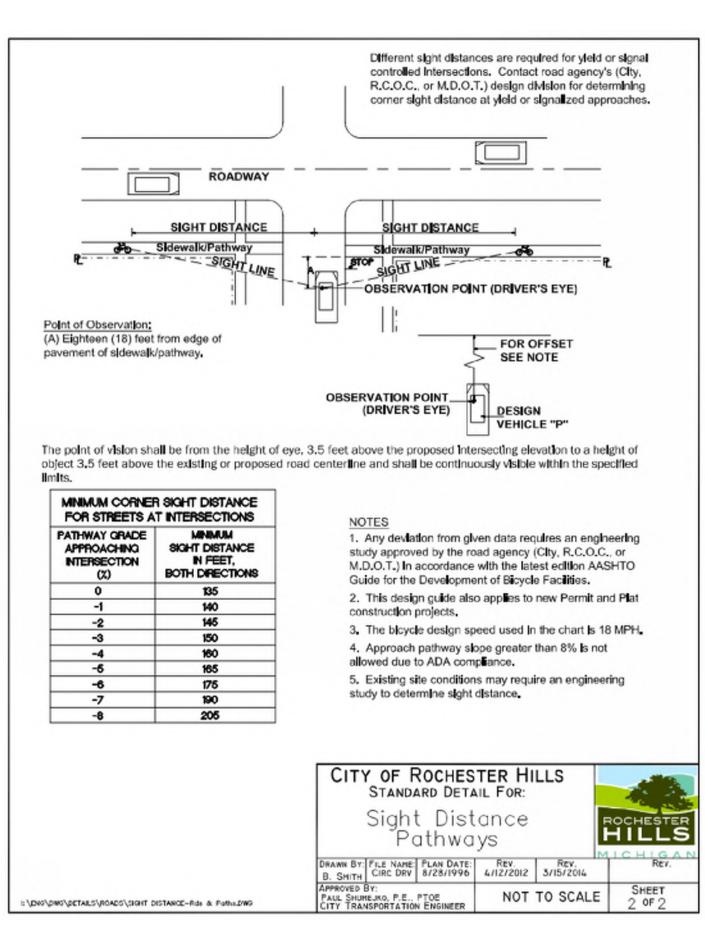


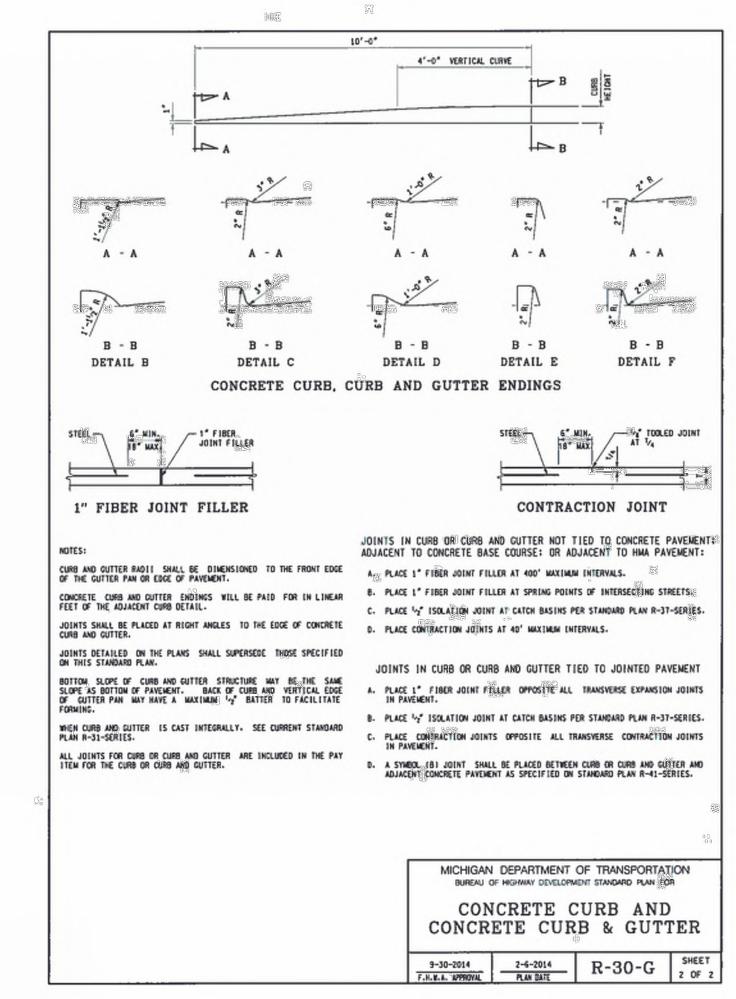
PIPE DIAMETER	"B"	"c"	"D"	SQUARE YARDS
12"	5'-0"	6'-6"	3'-0"	8.0
15"	5'-0"	7'-0"	3'-0"	8.5
18"	5'-0"	7'-6"	3'-6"	9.2
21"	5'-6"	8'-0"	4'-0"	10.7
24"	6'-0"	8'-6"	4'-6"	12.4



END SECTION & RIPRAP DETAIL







Standard Details:

Typical 8' Pathway Section

Graded Shoulder (Typ.)

Apply Promitol 25E -

or equivalent (as

approved by the

engineer) in accordance with

recommendations

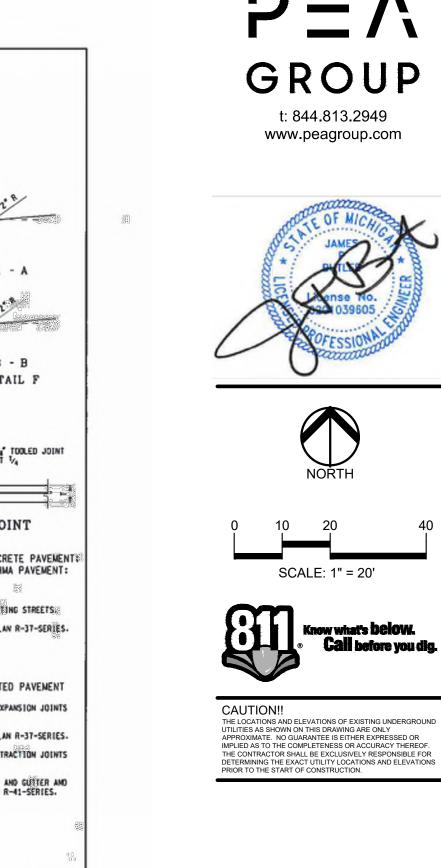
3" minimum horizontal clearance

between edge of pathway and all fixed objects

Typical Pathway and

¥Eng DWG/DETALS/PATHINAY/Pathway dwgs/27-HMA Pthwy Const-Ext-Relco-Std Nts & Defluding

Shoulder Drainage Profile



CLIENT

3420 ROCHESTER ROAD, LLC 29200 NORTHWESTERN HIGHWAY SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

GROUP

t: 844.813.2949 www.peagroup.com

SCALE: 1" = 20'

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY

PROJECT TITLE

3420 ROCHESTER ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

REVISIONS	
SITE/UTILITY LAYOUT	12/20/23
SITE/UTILITY LAYOUT	04/17/24
PER CITY COMMENTS	06/14/24
PER MDOT COMMENTS	09/23/24
PER CITY COMMENTS	10/09/24
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PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25
TERCHT COMMENTS	02/03/2

ORIGINAL ISSUE DATE: AUGUST 15, 2022 DRAWING TITLE

DETAILS

	PEA JOB NO.	2021-0117
	P.M.	LAA
	DN.	MT
	DES.	SWS
,	DRAWING NUMBER:	

Standard Notes:

[PG 64-22 (Final Grade)] 92% to 96% of the Theoretical

Maximum Density (TMD)

Apply bituminous bond tack

rate of 0.10 gallons/sq.yd, or adjusted by the engineer

as conditions warrant

Maximum Density (TMD)

(98% Maximum Density)

1/2" HMA, 4EL

Minimum vertical clearance within

Shoulder

the influence of the pathway

coat SS-1H at an application

[PG 64-22 (Final Grade)] 92% to 96% of the Theoretical

-4" (CIP) of 21AA aggregate base

-Compacted existing subgrade

1% cross slope for drainage

off and away from pathway

and graded shoulders. Cross-

Pathway Detalls:

APPROVED BY:

slope shall not exceed 2%)

CITY OF ROCHESTER HILLS

Hot-Mixed Asphalt Pathway Construction, Extensions and Relocations

PAUL SHUMEJKO, MBA, M.S., P.E., PTOE NOT TO SCALE

STANDARD DETAIL FOR:

(95% Maximum Density)

. Maximum grade of 8.33% along pathway

drainage off and away from pathway and

cross-slope). 60' minimum center line radii for pathway

clearance and 10' vertical clearance from all fixed objects and the edge of pathway

surface. Relocation of existing objects (i.e.

mail boxes, signs, etc.) shall be considered

accordance with MDOT standard detail R-28

Series and shall have a minimum clear

wherever new pavement matches existing pavement (incidental work item).
7. Utility structures shall be adjusted in

standards and shall match the proposed grade of the pathway. 8. Pathway shall be 6 inch thick HMA or

concrete through residential drives and 9 inch thick HMA or 8 inch thick concrete

"Shared Use Path, HMA" when part of

10. Ramps and landings shall be 6 inch thick

concrete.

11. ADA detectable warning plates shall be

preformed and brick red in color. Acceptable products included ADA Solutions

Inc., Armor-Tile, E.J., or approved equal 12. Irrigation overspray shall not broadcast onto

through commercial drives.

public improvement project.

City pathway or sidewalk

9. Pathway asphalt shall be paid for as

accordance with the City of Rochester Hills

incidental work items. . Pathway ramps shall be constructed in

6. A clean saw cut joint shall be provided

(less than 5% is recommended). 1% cross slope (i.e. super elevation) for

graded shoulders (2% maximum

Provide a minimum of 3' horizontal

orizontal alignment.

opening of 8' wide.

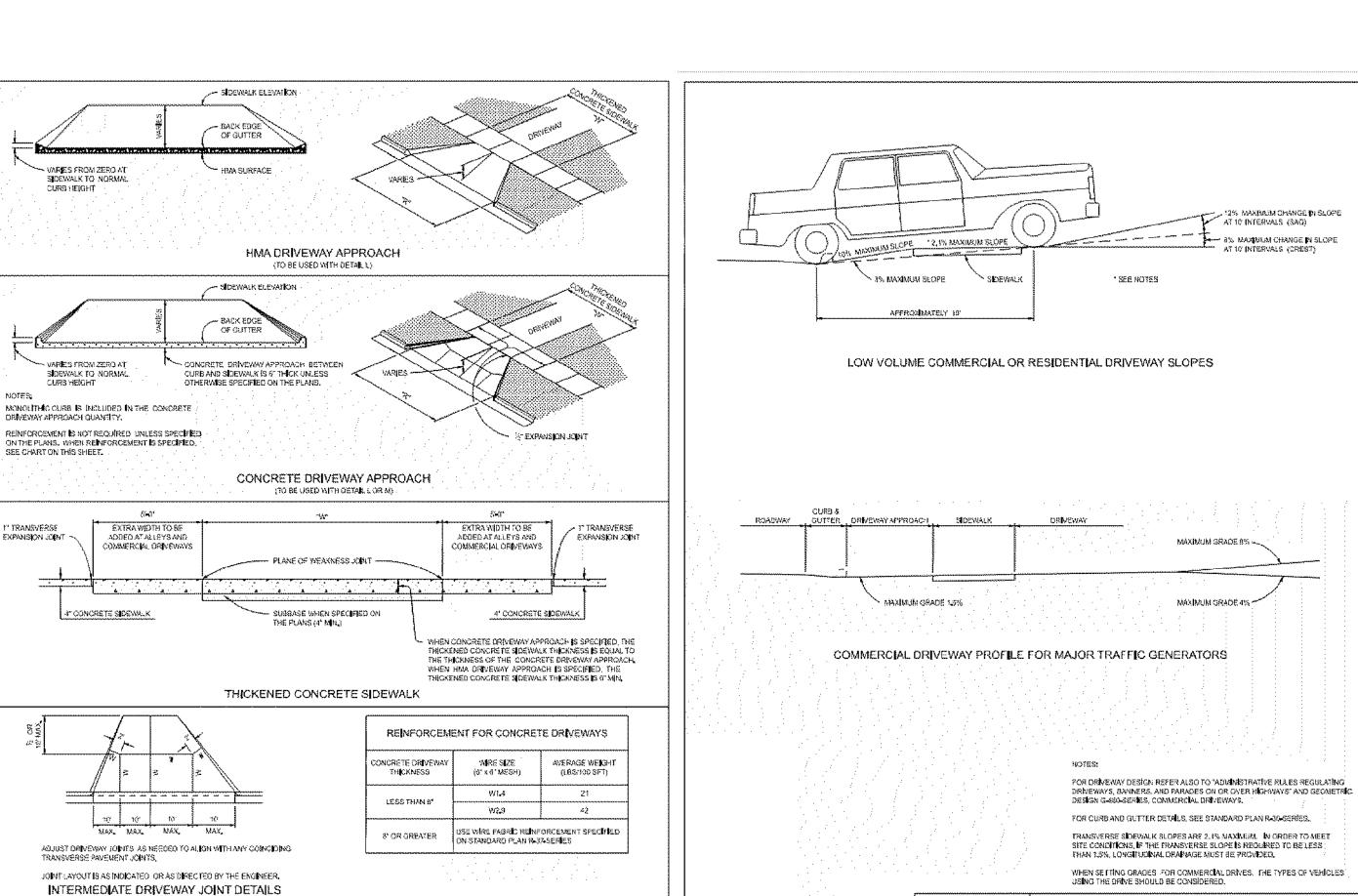








CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY
APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR
IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.
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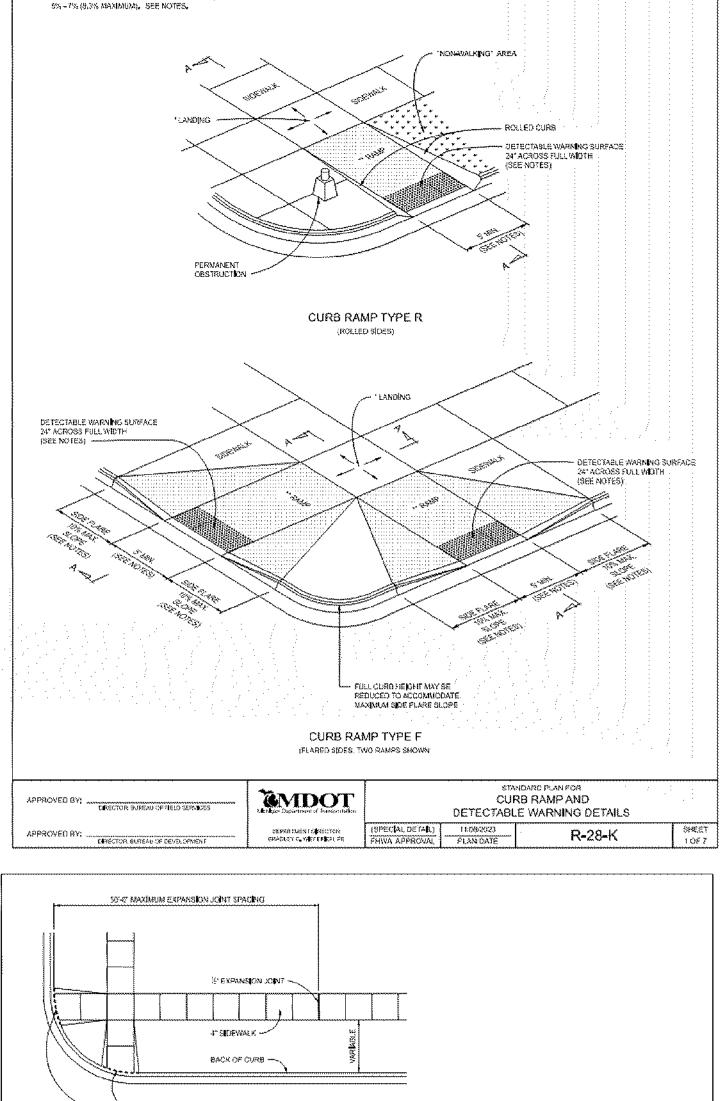


STANDARD PLANFOR
DRIVEWAY OPENINGS & APPROACHES,

AND CONCRETE SIDEWALK

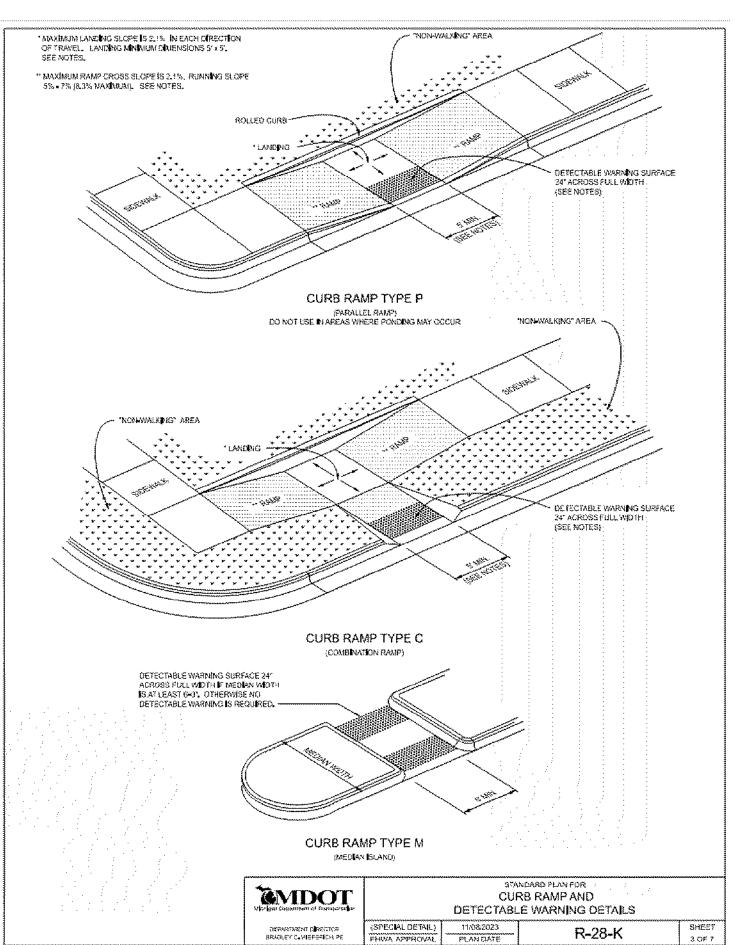
R-29-J

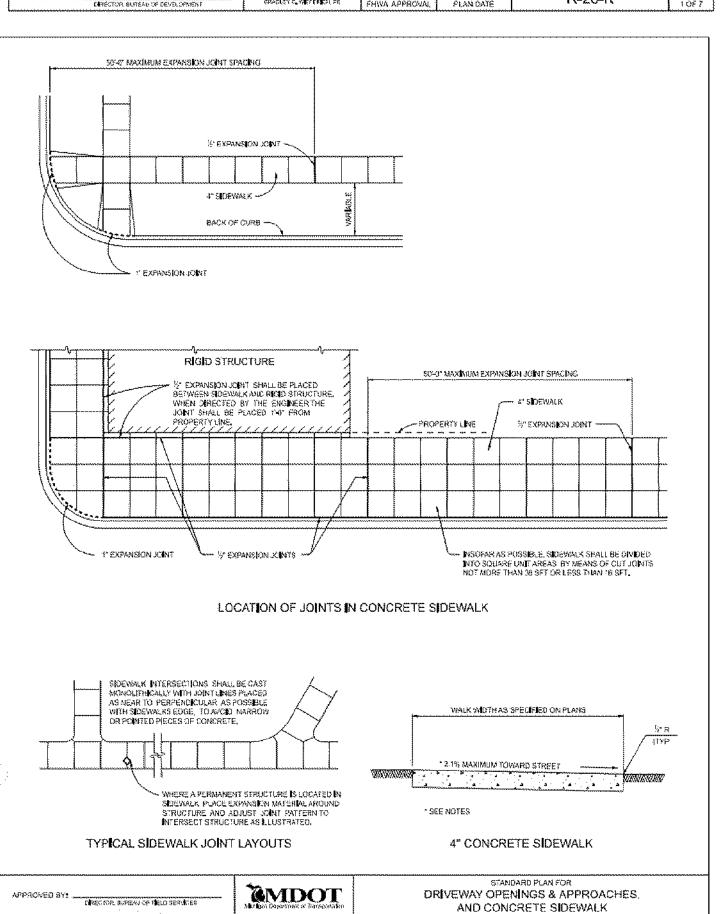
EMDOI NAME OF THE PROPERTY OF



MAXIMUM LANGING SLOPE IS 2.19. IN EACH DIRECTION of travel. Landing and mum dimensions of X s. See notes.

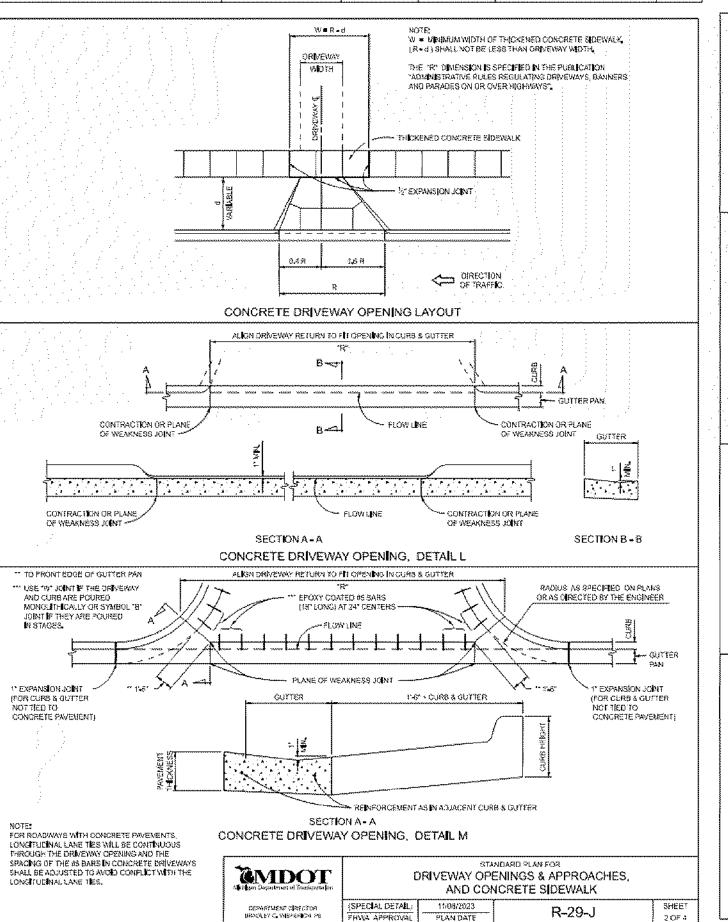
** MAXIMEM RAMP CROSS SLOPE IS 2.1%. RUNNING SLOPE

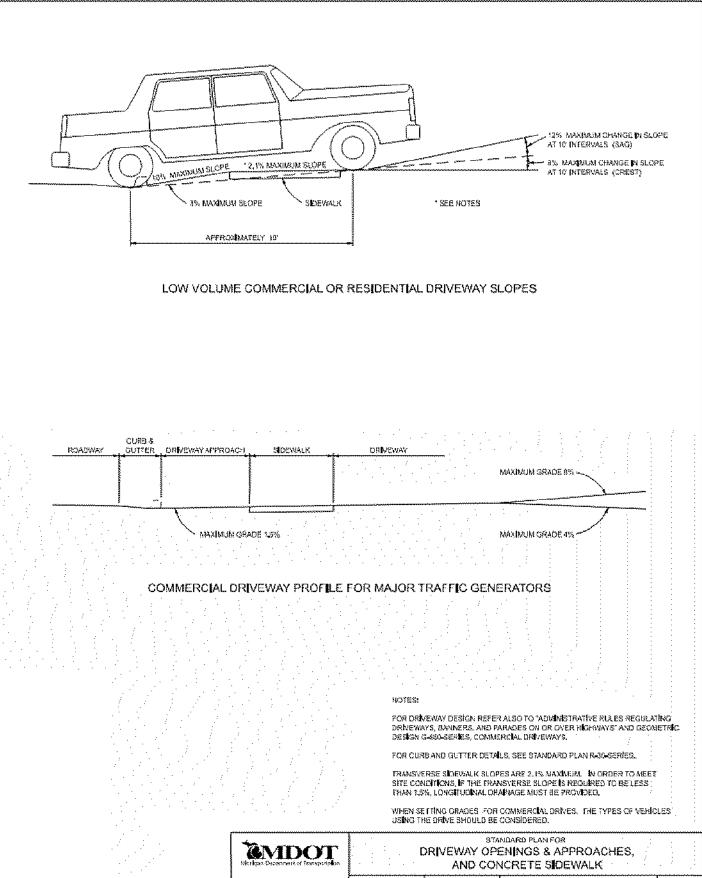




R-29-J

APPROVED BY: ORBITOR, BURBAN OF CONSCIONAL





CLIENT

3420 ROCHESTER ROAD, LLC 29200 NORTHWESTERN HIGHWAY, SUITE 450 FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

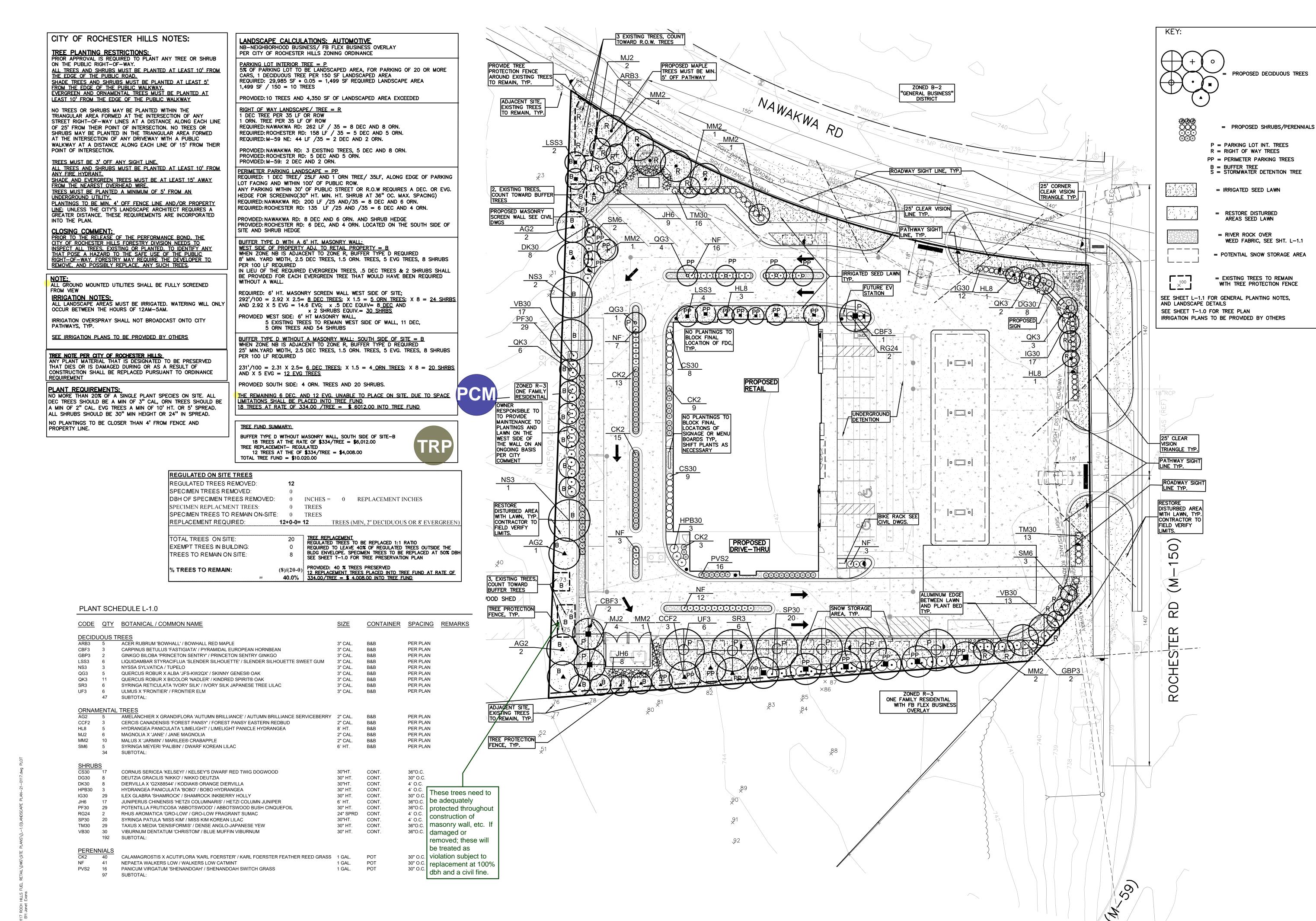
REVISIONS	
SITE/UTILITY LAYOUT	12/20/23
SITE/UTILITY LAYOUT	04/17/24
PER CITY COMMENTS	06/14/24
PER MDOT COMMENTS	09/23/24
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PER CITY COMMENTS	11/15/24
PER CITY COMMENTS	01/08/25
PER CITY COMMENTS	02/03/25

ORIGINAL ISSUE DATE: AUGUST 15, 2022 DRAWING TITLE

> M.D.O.T. **DETAILS**

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	MT
DES.	SWS
DRAWING NUMBER:	 :

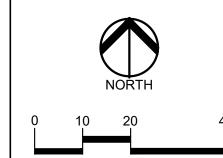
R-29-J



PEA GROUP

www.peagroup.com





SCALE: 1" = 20'



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3420 ROCHESTER ROAD, LLC
29200 NORTHWESTERN HIGHWAY, SUITE 450
FARMINGTON HILLS, MICHIGAN 48334

PROJECT TITLE

3420 ROCHESTER ROAD
3420 ROCHESTER ROAD

ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

REVISIONS	
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ORIGINAL ISSUE DATE: AUGUST 15, 2022 DRAWING TITLE

> LANDSCAPE PLAN

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	JLE
DES.	JLE
DRAWING NUMBER	:

- A. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION FREE FORM DEBRIS AND REFUSE.
- 3. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.
- ALL DEAD, DAMAGED OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN 6 MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1 AND FROM OCTOBER 1 UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREENS SHALL BE BETWEEN MATCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL.
- THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN CONCORDANCE WITH THE AFOREMENTIONED PROCEDURES, ANY REVISIONS TO OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF THIS SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A VIOLATION OF THIS ORDINANCE.
- . IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY

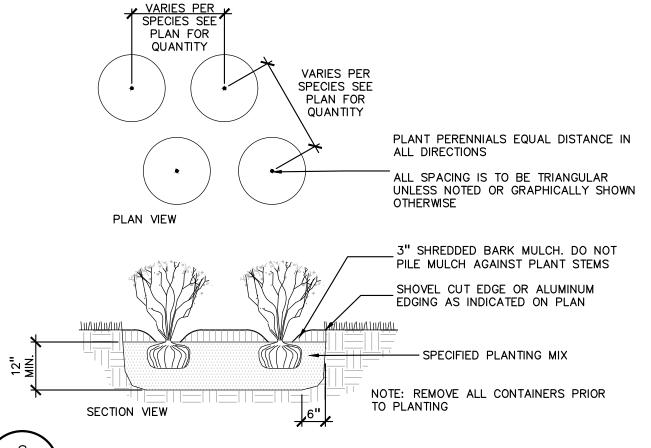
GENERAL PLANTING NOTES:

- 1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
- 2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO
- 3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1. GRADE.
- 4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
- 5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
- 6. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL
- 7. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH
- FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED. 8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL
- CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT 9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND,
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.

SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING

- 11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
- 12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
- 13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL
- 14. ALL PLANTING BEDS SHALL RECEIVE 4" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL
- 15. ALL LANDSCAPED AREAS SHALL RECEIVE 4" COMPACTED TOPSOIL.
- 16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
- 17. FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES CONTROL.
- 18. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING

19. TREES SHALL NOT CONFLICT/ BLOCK PROPOSED REGULATORY/ DIRECTION SIGNAGE, MONUMENT SIGNS, ADDRESS OR LIGHT POLES. SHIFT TREES AS



PERMALOC ALUMINUM EDGING OR APPROVED

EQUAL WITH BLACK FINISH

- COMPACTED SUBGRADE

LANDSCAPE BED EDGING SHALL BE ALUMINUM AS MANUFACTURED BY

8' OR 16' SECTIONS SHALL BE USED WITH ONE STAKE PER 38" OF

EDGING SHALL BE 3" THICK X 4" DEPTH WHEN ADJ. TO MULCH AND

THICK X 5 1" DEPTH WHEN ADJ. TO ROCK, FINISH: BLACK

STAKE SHALL SECURELY ENGAGE EDGING AND SHALL BE ENTIRELY

EDGING SHALL HAVE A MINIMUM OF 2" OF INTERLOCKING OVERLAP

INSTALL AS PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF

EDGING $\frac{1}{4}$ - $\frac{1}{2}$ ABOVE COMPACTED FINISH GRADE. FINISH GRADE TO

BE COMPACTED ON BOTH SIDES OF EDGING TO MAINTAIN STABILITY

PLANT SO THAT TOP OF ROOT BALL IS

SHREDDED HARDWOOD BARK MULCH 3"

DEEP AND LEAVE 3" CIRCLE OF BARE

SOIL AROUND TRUNK. DO NOT PLACE

SPECIFIED PLANTING MIX. WATER AND

REMOVE ALL BURLAP FROM TOP 1 OF

NON-BIODEGRADABLE MATERIAL OFF SITE

PLACE ROOTBALL ON UNEXCAVATED OR

TAMP TO REMOVE AIR POCKETS

-ROOTBALL, DISCARD ALL

MULCH IN CONTACT WITH TRUNK

FLUSH TO GRADE OR 1-2" HIGHER IF

DO NOT COVER TOP OF ROOTBALL

FORM SAUCER WITH 4" HIGH

IN POORLY DRAINED SOILS

WITH SOIL

- FINISH GRADE

CONTINUOUS RIM

- BED MEDIA

SPECIFICATIONS FOR LANDSCAPE BED EDGING:

PERMALOC 1.800.356.9660

DURAFLEX MEETING AAMA 2603

BELOW TOP SURFACE OF EDGING

BETWEEN SECTIONS

LUMINUM EDGE DETAIL

SCALE: 1/2'' = 1'-0''

VARIES ON CONTAINER

SHRUB PLANTING DETAIL

OR BALL SIZE

SCALE: 1'' = 2'-0''

PERENNIAL PLANTING DETAIL SCALE: 1'' = 2'-0''

TREE PROTECTION WILL BE ERECTED PRIOR TO START OF CONSTRUCTION ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN; INCLUDING, BUT NOT LIMITED TO PLACING SOLVENTS, BUILDING MATERIAL, CONSTRUCTION EQUIPMENT OR SOIL DEPOSITS WITHIN DRIP LINES

LINE OF PROTECTED TREES

GRADE CHANGES MAY NOT OCCUR WITHIN THE DRIP

DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY REMAINING TREE

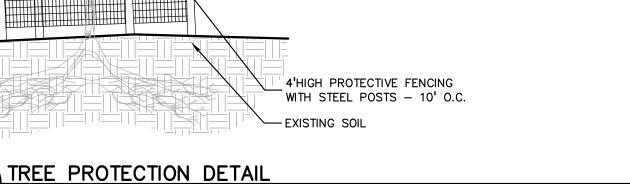
ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING

TREES LOCATED ON ADJACENT PROPERTY THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE

TREES TO BE PRESERVED SHALL BE IDENTIFIED WITH

FLAGGING PRIOR TO THE TREE CLEARING OPERATIONS PROVIDE FENCE AROUND CRITICAL ROOT ZONE OF

FENCE SHALL BE PLACED IN A CIRCLE WITH A MINIMUM RADIUS OF 1' PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND





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GROUP

t: 844.813.2949

www.peagroup.com

JANET L. EVANS LANDSCAPE

FLEXIBILITY. REMOVE AFTER (1) ONE YEAR. (DO NOT USE WIRE & HOSE) THREE 2"X2" HARDWOOD STAKES OR STEEL T-POSTS DRIVEN A MIN. OF 18" DEEP FIRMLY INTO SUBGRADE PRIOR TO

STAKE JUST BELOW BRANCHES WITH 2"-3"

WIDE NYLON OR PLASTIC STRAPS. CONNECT

FROM TREE TO STAKE AND ALLOW FOR

PLANT SO THAT TOP OF ROOT BALL IS FLUSH TO GRADE OR 1-2" HIGHER IF IN

POORLY DRAINED SOILS

SHREDDED HARDWOOD BARK MULCH TO DRIPLINE. 3" DEEP AND LEAVE 3" CIRCLE OF CLIENT BARE SOIL AROUND TREE TRUNK. DO NOT PLACE MUICH IN CONTACT WITH TREE TRUNK. FORM SAUCER WITH 4" HIGH

CONTINUOUS RIM

- FINISH GRADE SPECIFIED PLANTING MIX, WATER & TAMP TO - REMOVE AIR POCKETS, ÁMEND SOIL PER SITE CONDITIONS & TREE REQUIREMENTS EXPOSE ROOT FLARE OF TREE. CONTRACTOR MAY HAVE TO REMOVE EXCESS SOIL FROM TOP OF ROOTBALL. REMOVE ALL BURLAP FROM TOP 3 OF ROOTBALL. DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE

PLACE ROOTBALL ON UNEXCAVATED OR

3420 ROCHESTER ROAD

ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

12/20/23

04/17/24

06/14/24

09/23/24

10/09/24

11/15/24

01/08/25

02/03/25

3420 ROCHESTER

ROAD, LLC

PROJECT TITLE

REVISIONS

SITE/UTILITY LAYOUT

SITE/UTILITY LAYOUT

PER CITY COMMENTS

PER MDOT COMMENTS

PER CITY COMMENTS

PER CITY COMMENTS

PER CITY COMMENTS

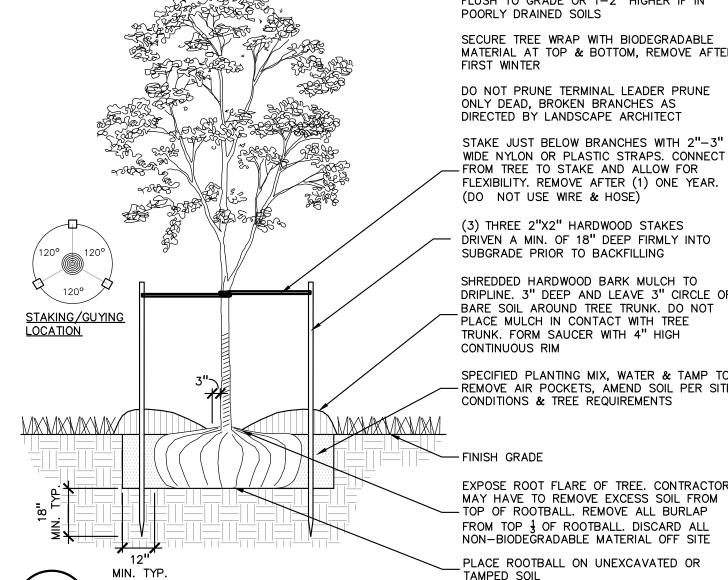
PER CITY COMMENTS

FARMINGTON HILLS, MICHIGAN 48334

SUITF 450

29200 NORTHWESTERN HIGHWAY

3420 ROCHESTER ROAD



DECIDUOUS TREE PLANTING DETAIL

EVERGREEN TREE PLANTING DETAIL

SCALE: 1'' = 3'-0''

STAKING/GUYING

<u>LOCATION</u>

MIN. TYP.

SCALE: 1'' = 3'-0''

FLUSH TO GRADE OR 1-2" HIGHER IF IN POORLY DRAINED SOILS SECURE TREE WRAP WITH BIODEGRADABLE MATERIAL AT TOP & BOTTOM, REMOVE AFTER FIRST WINTER DO NOT PRUNE TERMINAL LEADER PRUNE ONLY DEAD, BROKEN BRANCHES AS DIRECTED BY LANDSCAPE ARCHITECT

> WIDE NYLON OR PLASTIC STRAPS. CONNECT FROM TREE TO STAKE AND ALLOW FOR FLEXIBILITY. REMOVE AFTER (1) ONE YEAR. (DO NOT USE WIRE & HOSE)

PLANT SO THAT TOP OF ROOT BALL IS

(3) THREE 2"X2" HARDWOOD STAKES DRIVEN A MIN. OF 18" DEEP FIRMLY INTO SUBGRADE PRIOR TO BACKFILLING

SHREDDED HARDWOOD BARK MULCH TO DRIPLINE. 3" DEEP AND LEAVE 3" CIRCLE OF BARE SOIL AROUND TREE TRUNK. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. FORM SAUCER WITH 4" HIGH

CONTINUOUS RIM SPECIFIED PLANTING MIX, WATER & TAMP TO - REMOVE AIR POCKETS, AMEND SOIL PER SITE CONDITIONS & TREE REQUIREMENTS

EXPOSE ROOT FLARE OF TREE. CONTRACTOR MAY HAVE TO REMOVE EXCESS SOIL FROM - TOP OF ROOTBALL. REMOVE ALL BURLAP FROM TOP 3 OF ROOTBALL. DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE PLACE ROOTBALL ON UNEXCAVATED OR

ORIGINAL ISSUE DATE:
AUGUST 15, 2022
DRAWING TITLE
LANDSCAPE
DETAILS

	PEA JOB NO.	2021-0117
	P.M.	LAA
	DN.	JLE
	DES.	JLE
_	DRAWING NUMBER:	

NOT FOR CONSTRUCTION CITY FILE #22-029 SECTION #34

COST OPINION:

PLAN

QUANTITY UNIT

1,800 S.Y. SEED LAWN

40 C.Y. MULCH 3"

15 C.Y. RIVER ROCK

97 EA. PERENNIALS

1 LS. IRRIGATION

192 EA. SHRUBS

TREE REPLACEMENT- REGULATED

TOTAL TREE FUND = \$10.020.00

TREE FUND SUMMARY:

560 L.F. ALUMINUM EDGING

0 S.Y. SPECIIALITY SEED MIX

47 EA. DECIDUOUS TREES AT 3" CAL.

0 EA. EVERGREEN TREES AT 10' HT.

120 C.Y. PLANT MIX FOR BEDS (6" DEPTH)

BUFFER TYPE D WITHOUT MASONRY WALL, SOUTH SIDE OF SITE-B

18 TREES AT THE RATE OF \$334/TREE = \$6,012.00

12 TREES AT THE OF \$334/TREE = \$4,008.00

34 EA. SUB CANOPY ORNAMENTAL TREES AT 2" CAL.

LANDSCAPING

UNIT PRICE

\$3.00

\$350.00

\$550.00

\$500.00

\$65.00

\$55.00

\$6.00

\$85.00

\$65,00

TOTAL LANDSCAPING

LAWN RESTORATION NIC

\$10,000.00 \$10,000.00

ITEM PRICE

\$5,400,00

\$0.00

\$11,900.00

\$25,850,00

\$0.00

\$2,600.00

\$6,600.00

\$3,360.00

\$1,275.00

\$1,940,00

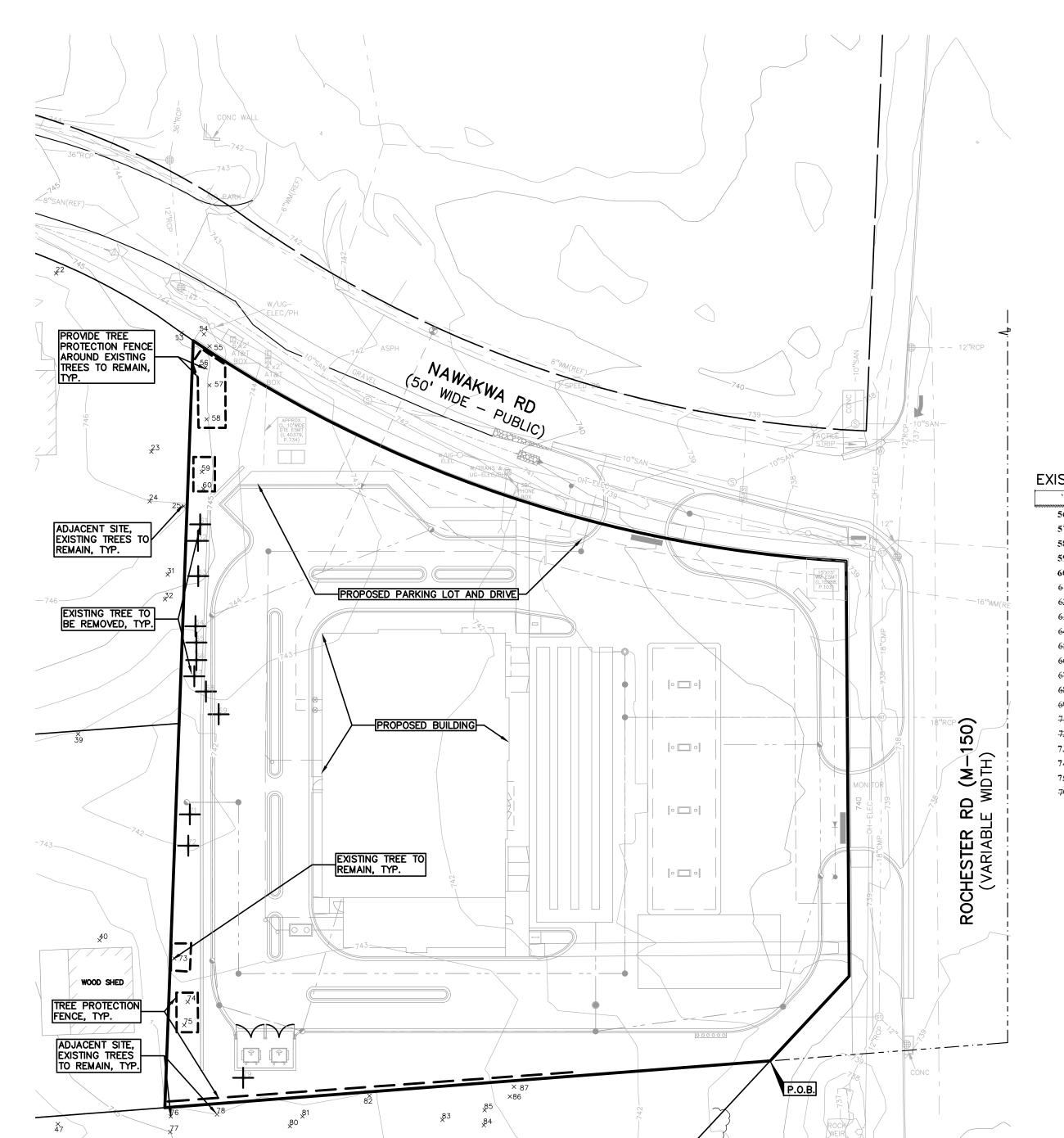
\$12,480.00

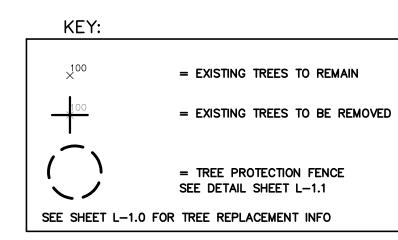
\$94,480.00

SEE PLAN FACE OF BUILDING, CURB, WALK OR BASE OF SGN 2"-3" DIA. RIVER ROCK AT 5" DEPTH GRAY FILTER FABRIC TO - BE COMPLETELY CONCEALED WITH STONE HEAVY DUTY ALUMINUM EDGE – BLACK SUBGRADE, COMPACT TO - 95% MAX. DRY UNIT DENSITY (PER ASTM 0-1557)

RIVER ROCK EDGE DETAIL SCALE: $1 \frac{1}{2}$ " = 1'-0"

SCALE: 1'' = 3'-0''





TREES (MIN, 2" DECIDUOUS OR 8' EVERGREEN)

DBH OF SPECIMEN TREES REMOVED: 0 INCHES = 0 REPLACEMENT INCHES 0 TREES SPECIMEN REPLACMENT TREES:

	 40.0%
% TREES TO REMAIN:	(8)/(20-0)
TREES TO REMAIN ON SITE:	8
EXEMPT TREES IN BUILDING:	0
TOTAL TREES ON SITE:	20

SPECIMEN TREES TO REMAIN ON-SITE: 0 TREES

12+0-0= 12

REGULATED ON SITE TREES REGULATED TREES REMOVED: SPECIMEN TREES REMOVED:

REPLACEMENT REQUIRED:

,	CODE	DBH	COMMON NAME	LATIN NAME	COND	COMMENT	EXEMPT? SPECIMEN	SAVE / REMOVE	OFFSITE/ NIC	IN BULDING
56	AU	11	Austrian Pine	Pinus nigra	FAIR		N	S	N	N
57	AU	12	Austrian Pine	Pinus nigra	FAIR		N	S	N	N
58	AU	12	Austrian Pine	Pinus nigra	FAIR		N	S	N	N
59	AU	12	Austrian Pine	Pinus nigra	FAIR		N	S	N	N
60	ΑÜ	7	Austrian Pine	Pinus nigra	FAIR		N	S	N	N
61	A-L;	11	Austrian Pine	Pinus nigra	POOR		(A	R	N	N
62	ΑU	10	Austrian Pine	Pirus nigra	POOR		IA I	R	N	N
63	ΑU	11	Austrian Pino	Pinus nigra	FAIR		N N	R	И	N
6 4	AU	11	Austrian Pine	Pinus nigra	FAIR		l N	R	И	ļ Ņ
65	AU	12	Austrian Pine	Pinus nigra	FAIR		N A	R	И	И
66	SC	7	Scotch Pine	Pinus sylvestris	POOR		N	R.	И	N
67	s∈	40	Scotch Pine	Pinus sylvestris	FAIR		l N	R	N A	j A
68	\mathbf{BW}	9	Black Walnut	Juglans nigra	GOOD		N	R	И	И
69	₿X	7	Box elder	Acer negundo	FAIR		l N	R	H	N
71	ÆÜ	40	Austrian Pine	Pinus nigra	POOR		l N	R	14	N
-72	ΑU	8	Austrian Pine	Pinus nigra	POOR		l H	R	И	N
73	BX	15	Box elder	Acer negundo	POOR		N	S	N	N
74	SC	8	Scotch Pine	Pinus sylvestris	POOR		N	S	N	N
75	BW	8	Black Walnut	Juglans nigra	POOR		N	S	N	N
-74)	В	6	Basswood	Tilia americana	FAIR	X7	N	R	Ŋ	N











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PROJECT TITLE

3420 ROCHESTER ROAD 3420 ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

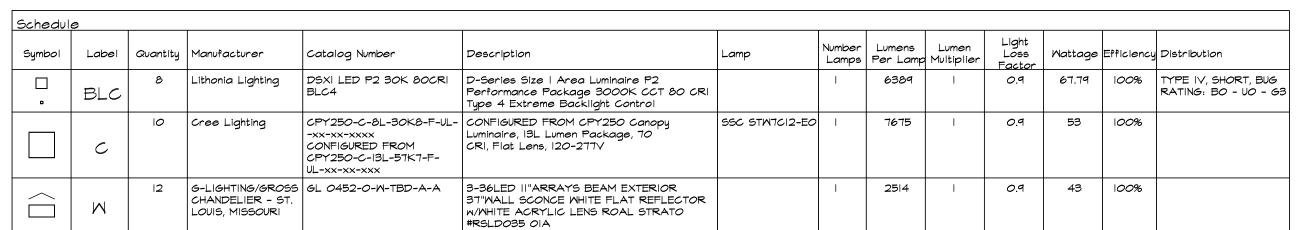
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ORIGINAL ISSUE DATE: AUGUST 15, 2022

DRAWING TITLE

TREE PLAN

PEA JOB NO.	2021-0117
P.M.	LAA
DN.	JL
DES.	JL
DRAWING NUMBER	₹.



Statistics										
Description	Symbol	A∨g	Max	Min	Max/Min	Avg/Min				
Parking Lot		0.7 fc	-	0.0 fc	N/A	N/A				
Canopy		17.0 fc	19.4 fc	13.1 fc	1.5:1	1.3:1				

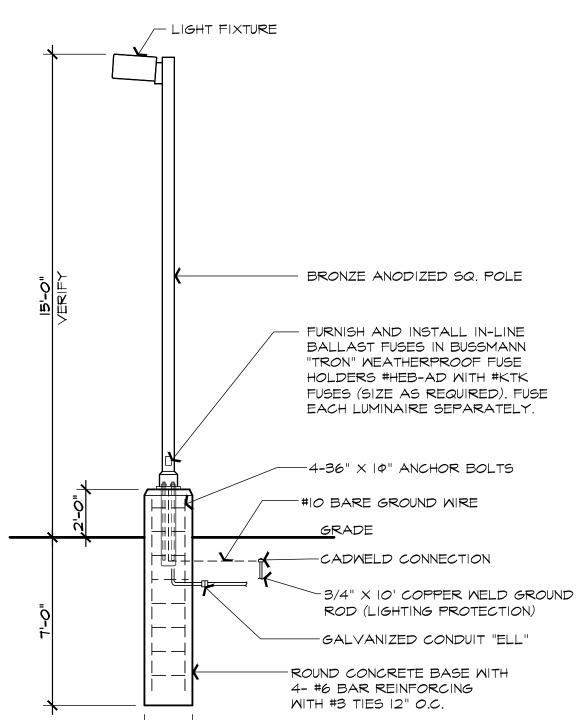
FOR MAX. AT PARKING LOT, REFER TO LAYOUT

NOTE:

- I. ALL LIGHTING FIXTURES SHALL NOT EXCEED THE HEIGHT OF THE DISTRICT THAT ARE LOCATED IN, MEASURED FROM THE GROUND LEVEL TO THE CENTERLINE OF THE LIGHT SOURCE. WALL SCONCES AND/OR LIGHT POLES SHALL BE NON-GLARE LIGHTING.
- ALL LIGHTING ON THE SITE SHALL PREVENT THE ADVERSE EFFECTS OF INAPPROPRIATE LIGHTING, INCLUDING GLARE, LIGHT TRESPASS ONTO ADJOINING PROPERTIES, LIGHT POLLUTION AND SKY GLOW, AND ENERGY WASTE
- 3. ALL THE EXTERIOR LIGHTING (INCLUDING WALL MOUNTED FIXTURES)
 SHALL BE FULLY SHIELDED AND DOWNWARD DIRECTED.
- 4. CANOPY STRUCTURE MUST HAVE RECESSED CANOPY FIXTURES WITH DIFFUSERS THAT DO NOT EXTEND BELOW THE CEILING SURFACE OF THE CANOPY.

NOTE

- LED LIGHT SOURCES SHALL HAVE A CORRELATED COLOR TEMPERATURE THAT DOES NOT EXCEED 3,000K.
- ALL THE EXTERIOR LIGHTING IN NON-RESIDENTIAL DISTRICTS SHALL INCORPORATE AUTOMATIC TIMERS AND SHALL BE TURNED OFF BETWEEN THE HOURS OF MIDNIGHT AND SUNRISE, EXCEPT FOR LIGHTING NECESSARY FOR SECURITY PURPOSES OR ACCESSORY TO A USE THAT CONTINUES AFTER MIDNIGHT.
- EXTERIOR LIGHTING SHALL BE FULLY SHIELDED AND DIRECTED DOWNWARD AT A 90 DEGREE ANGLE.
- ALL FIXTURES SHALL COMPLY WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA STANDARDS.



POLE LIGHT DETAIL TYPE "BLC"

NTS

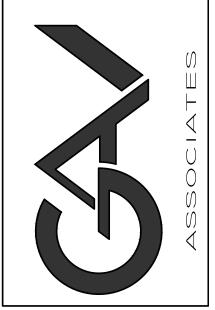
SITE LIGHTING PHOTOMETRIC PLAN

Lamp O CRI	Number Lumens Lamps Per Lamp 1 6389	Lumen Multiplier	Light Loss Wattage Factor 0.9 67.79	Efficiency	y Distribution TYPE IV, SHORT, BUG RATING: BO - UO - G3	_0.0 _0	0.0		/											 - -	 			
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CTOR	1 2514	I	0.9 43	100%			0.0	0.0 _0.0												 				
0						0.0	0.0 0.0	0.0 °C	0.0 0.0											 				
		ARC	= 116°.39°).U _U.			20000000000000000000000000000000000000	0.0	0.0	0.0										 			 - - -	
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ARCHITECTURAL DESIGN

RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



DRAWN: DESIGNED: CHECKED:

M.B. G.A. G.A.

SCALE : AS SHOWN

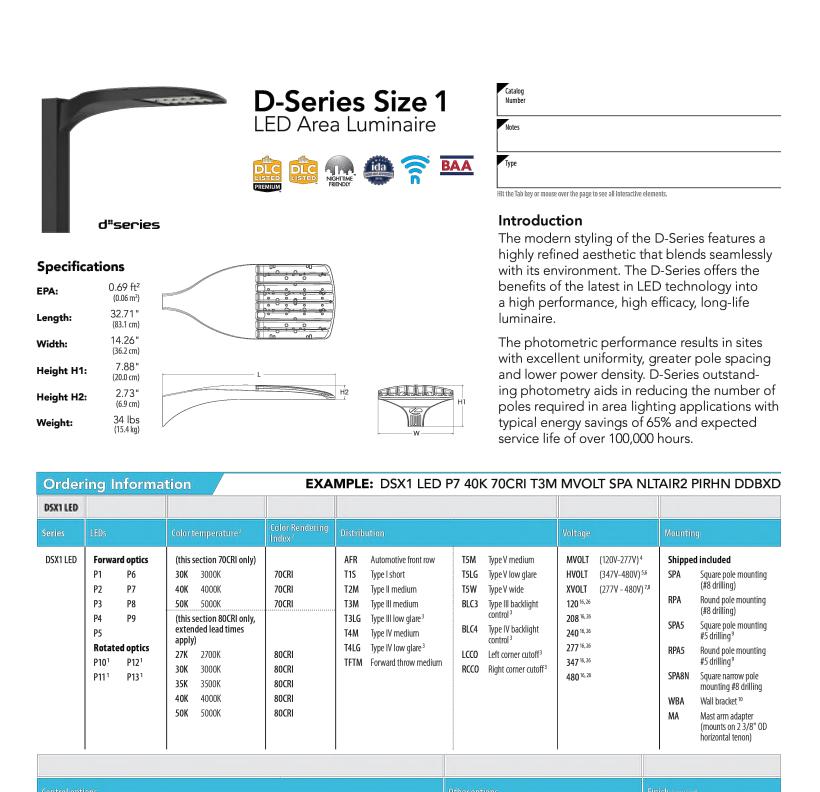
FILE NAME :

JOB #: 21091 SHEET TITLE

SCALE: 1" = 20'-0"

SITE LIGHTING
PHOTOMETRIC
PLAN
SHEET #

5P.0



LITHONIA LIGHTING. COMMERCIAL OUTDOOR

Shipped installed

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

PER7 Seven-pin receptacle only (controls

BL30 Bi-level switched dimming, 30% 16,21

BL50 Bi-level switched dimming, 50% 16,21

DMG 0-10v dimming wires pulled outside

fixture (for use with an external

FAO Field adjustable output 15,21

Shipped installed

Shipped separately

SPD20KV 20KV surge protection

Right rotated optics 1

Coastal Construction 23

50°C ambient operation 24

Buy America(n) Act Compliant Single fuse (120, 277, 347V) 26 DF Double fuse (208, 240, 480V) 26

EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)

Houseside shield (black finish standard) 22

DDBXD Dark Bronze

DNAXD Natural Aluminum

DDBTXD Textured dark bronze

DNATXD Textured natural aluminum DWHGXD Textured white

DBLBXD Textured black

DBLXD Black

FIXTURE TYPE "BLC"

NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient

sensor enabled at 2fc. 11, 12, 20, 21

High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc 13, 20, 21

NEMA twist-lock receptacle only (controls ordered

Five-pin receptacle only (controls ordered separate)^{14,21}

LIGHT POLE +/- 15' AFF (VIF)

CPY Series - Version C

CPY250® LED Canopy/Soffit Luminaire

Product Description

The CPY250® LED Canopy/Soffit Luminaire has an extremely thin profile constructed of rugged cast aluminum. It can be surface mounted easily from below the canopy deck and can be pendant mounted. Direct imaging of the LEDs is eliminated with a highly efficient patterned flat or 0.91" (23mm) drop glass lens. Applications: Petroleum canopies, CNG fueling stations, soffits

Performance Summary Assembled in the USA by Cree Lighting from US and imported parts Initial Delivered Lumens: Up to 21,000

Efficacy: Up to 165 LPW CRI: Minimum 70 CRI [40K, 50K, 57K]; 80 CRI [30K]; 90 CRI [40K, 50K] CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty[†]: 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for BML sensor/up to 5 years for Synapse® accessories/1 year for field-installed accessories IP66 Rated (select models only)

Class I, Division 2 Hazardous Location for select models

†See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms. Accessories

Direct Mount Luminaires Pendant Mount Luminaires Canopy Upgrade Kits (18 ga. steel, except where noted) Pendant Mount Kits XA-BXCCM+ – for use with Jet-Philips, 21.60" (549mm) square XA-PS22KIT* - 15" (381mm) pendant XA-BXCCN+ - for use with Elsco Franciscan, 22.06* [560mm] square XA-BXCCP+ - for use with LSI Dakota or Masters, 22.50* [572mm] square XA-BXCCQ+ - for use with Whiteway Riviera or Rig-A-Lite, 20.60* [523mm] Includes two conduit fittings and 3/4-14 NPT pipe threaded on two square
XA-BXCCR+ - for use with Elsco Merrit, 18.06" [459mm] square
XA-BXCCS+ - for use with LSI Richmond or Whiteway Civic, 23.00" [584mm] L
x 13.00" [330mm] W

Direct Mount Junction Box/Stem Kit Synapse® SimplySnap 10V Interface - Requires other Synapse components to XA-BXCCJBOX - 6.0" (152mm) H x 3/4" (19mm) NPT Stem complete system - Refer to DIM10-220F spec sheet for

- Watertight - Rated for feed through 8 (4 in, 4 out) #12 AWC conductors Direct Mount Beauty Plates XA-BXCCBP+ - 26.17" (665mm) Beauty Plate Only (18 ga. steel) XA-BXCCBPB12+ - 26.17" (665mm) Beauty Plate [18 ga. steel) w/12" (305mm) Backer Plate (16 ga. steet)

- For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 10.75" x 15" [183mm x 375mm] XA-BXCGBPB16+ - 26.17" (665mm) Beauty Plate [18 ga. steel) w/16" (406mm) Backer Plate [16 ga. steel)

For use in canopies where deck opening is larger than what is required for mounting the CPY250 luminaire. Maximum deck opening 12" x 15" (305mm x 375mm)

* Must specify color: BK (Black), BZ (Bronze), SV (Silver) or WH (White)
+ Must specify color: T (Black), Z (Bronze), S (Silver) or W (White)

Ordering Information Example: CPY250-C-13L-57K7-D-UL-DM-SV

CPY250	С								
Product	Version	Lumen Package*	CCT/CRI	Optic	Voltage	Mounting	Color Options	Centrels	Options
CPY250	С	2L 2,000 Lumens 4L 4,000 Lumens 8L 8,000 Lumens 13L Lumens 21L 21,000 Lumens	30K8 3000K, 80 CRI 40K7 4000K, 70 CRI 4000K, 70 CRI 50K7 5000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	D 0.91" (23mm) Drop Lens F Flat Lens	UL Universal 120- 277V UH Universal 347- 480V - Available only in 4L-21L lumen packages	DM Direct FM Flush Mount H6 Car Wash HC Hook & Cord PD Pendant	BK Black BZ Bronze SV Silver WH White	BLANK Non-Dimming 10V 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details BML Bluetooth® Technology Enabled Multi-Level Sensor - Utilizes a multifunction sensor - Available only with UL voltage - Refer to BML spec sheet for details - 8-20' sensor lens installed on luminaire; 20-40' sensor lens and aisle shroud included - Not available with other controls	10KV 10kV/5kA Surge Suppression Replaces standard 6kV/3kA surge suppression Not for use with BML as BML option includes10kV/5kA surge as standard HZ Class I, Div. 2 Hazardous Location Certification Available with DM and PD mounts only Not available with BML control or K option K NSF 2 Certification Luminaires include NSF certification mark Suitable for DM mount only Not available with BML control or HZ option



CREE LIGHTING

Rev. Date: V705/18/2023

DM Mount / DM Mount with HZ Option

Gasket to Seal up to 4.25" (108mm) Canopy Cutout

Mounts with (4)
Supplied Self-Sealing
Sheet Metal Screws

Weight

12.5 lbs. (5.7kg)

Refer to Page 4 for additional mounts.

← 11.0"→

FIXTURE TYPE "C"

CANOPY +/- 14.5' AFF (VIF), SEE ELEVATIONS

BEAM

Exterior Sconce

ELighting 9777 Reavis Park Drive St. Louis, MO 63123 800.331.2425 or 314.631.6000

sales@glighting.com www.glighting.com

GENERAL SPECIFICATION LED: High efficiency mid-power LEDs are field serviceable.

LED Dimming: 0-10V dimming standard. Body: Extruded aluminum wall plate and rails. Body hinges for easy serviceability. **Diffuser:** Extruded polycarbonate lens is UL-94 HB Flame Class rated. **Standard Finishes:** Highly durable oven cured no VOC premium powder coat. **Design:** Aluminum die cast end caps and decorative bars.

Modified: Contact factory for modified lengths, lamping and decorative fronts. Exterior Mounting: Gasketed between wall and wall plate.

GL-5451-		H-	S-	PA-	A-	A		
MODEL N	NO.	LAMPING	DIFFUSER	FINISH	DESIGN	OPTION(S)		
H in	7 1/4" mm 18 12" mm 30 3 7/8" mm 12	AL. 10LED35 AM. 10LED40	Standard: S. Satin White Polycarbonate is UL-94 HB Flame Class rated.	Standard: Powder Coat BLR-Black BL-Black	Standard: A. Optional: B.	A. No Options EL. Emergency LED Remote mount up to 10' from lamping in controlled environment with an area temperature range of 32'-131'F. LED only. Specify 120 of 277 voltage.		
_{5lbs} H in	7 1/4" mm 18 17" mm 43 3 7/8" mm 12	B. 14LED35	D30 D35 D40 HB Flame Class rated. LG-Light Gray BE-Beige PAB-Antique Bri PA-Painted Alum PTC-Painted Cop WH-White DBZ-Dark Bronz	BE-Beige PAB-Antique Brass PA-Painted Aluminum PTC-Painted Copper WH-White	C. D.* E.*			
7ha H in	7 1/4" mm 185 25" mm 635 3 7/8" mm 125	D. 14LED30 E. 14LED35 F. 14LED40 G. 28LED30 H. 28LED35 I. 28LED40 WHY DB22 NSN- BRN- RD-B CH-C CH-C G. 26LED30 RG-B SG-S GM-G POR- Tex	NSN-New Satin Nickel BRN-Brown RD-Red CH-Chempagne RG-Reed Green SG-Sungold GM-Gun Metal POR-OI Rubbed Bronze Textured Powder TLV-Light Verdigns	"D&E not available with GL-5449. "E not available with GL-5450.				
tolles H in	7 1/4" mm 18 37" mm 94 3 7/8" mm 12	L. 21LED35		TWH-Textured White TBL-Textured Black TS-Textured Silver TBN-Textured Silver TBN-Textured Silver TBZ-Textured Silver Premium: SA-Satin Aluminum				
talks H in	7 1/4" mm 18 49" mm 124 3 7/8" mm 12	5 S. 28LED35						

All dimensions are n	ominal.					Light Source Definition						
<u>Lamp</u> 10LED30 10LED35	<u>LED</u> 10W 10W	<u>CRI</u> 92 92	Rated <u>Life Hrs</u> 50000 50000	Delivered <u>Lumens</u> 478 478	<u>Kelvin</u> 3000 3500	<u>Lamp</u> 28LED30 28LED35	<u>LED</u> 28W 28W	<u>CRI</u> 80 80	Rated Life Hrs 50000 50000	Delivered <u>Lumens</u> 1562 1562	<u>Kelvin</u> 3000 3500	
10LED40 14LED30 14LED35 14LED40	10W 14W 14W 14W	92 80 80 80	50000 50000 50000 50000	478 781 781 781	4000 3000 3500 4000	28LED40 42LED30 42LED35 42LED40	28W 42W 42W 42W	80 80 80 80	50000 50000 50000 50000	1562 2527 2527 2527	4000 3000 3500 4000	
21LED30 21LED35 21LED40	21W 21W 21W	80 80 80	50000 50000 50000	1171 1171 1171	3000 3500 4000	56LED30 56LED35 56LED40	56W 56W 56W	80 80 80	50000 50000 50000	3124 3124 3124	3000 3500 4000	

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G Lighting reserves the right to modify existing designs to improve appearance or function



FIXTURE TYPE "W"

+/- 8.5' AFF, SEE ELEVATIONS



ARCHITECTURAL DESIGN

ISSUED FOR

SPA REVISION

SPA REVISION

DATE 8-22-2022

4-19-2024

10-7-202

RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



DESIGNED: CHECKED: DRAWN:

G.A. G.A.

SCALE : AS SHOWN

FILE NAME: JOB #: 21091

SHEET TITLE SITE LIGHTING

SHEET #

CUT SHEET

PROJECT DESCRIPTION

PROPOSED I STORY COMMERCIAL BUILDING, THE INTERIOR TO BE BUILD OUT INTO GAS STATION (CONVENIENCE/ RETAIL STORE) & TENANT.

PROJECT DATA:

USE GROUP: M - MERCANTILE & B - BUSINESS 2B - NOT SPRINKLED CONSTRUCTION TYPE: GROSS FLOOR AREA: 8,348 SF (TOTAL BUILDING)

7,105 SF GAS STATION: LEASE SPACE: 1,243 SF

OUTDOOR GAS CANOPY: 2,392 SF TOTAL BUILDING & CANOPY: 10,740 SF

ALLOWED BUILDING HEIGHT AND AREA SECTION 504 \$ 506: . BASED ON USE GROUP M - MERCANTILE

PROVIDED: BASE AREAS: 8,348 SF (TOTAL) 12,500 SF 50,000 SF

 HEIGHT: 2 FLR, 55' I FLR, 29'-4" MAX.

2 FLR, 30' (PER ZONING REGULATIONS)

CODES & STANDARDS REFERENCES:

GENERAL CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, CITY AND LOCAL CODES WHERE APPLICABLE. ALL NEW CONSTRUCTION SHALL COMPLY TO THE FOLLOWING .:

• 2015 MICHIGAN BUILDING CODE (MBC).

• 2021 MICHIGAN MECHANICAL CODE (MMC).

 2021 MICHIGAN PLUMBING CODE (MPC). 2023 NATIONAL ELECTRICAL CODE (NEC) PART 8 OF THE STATE

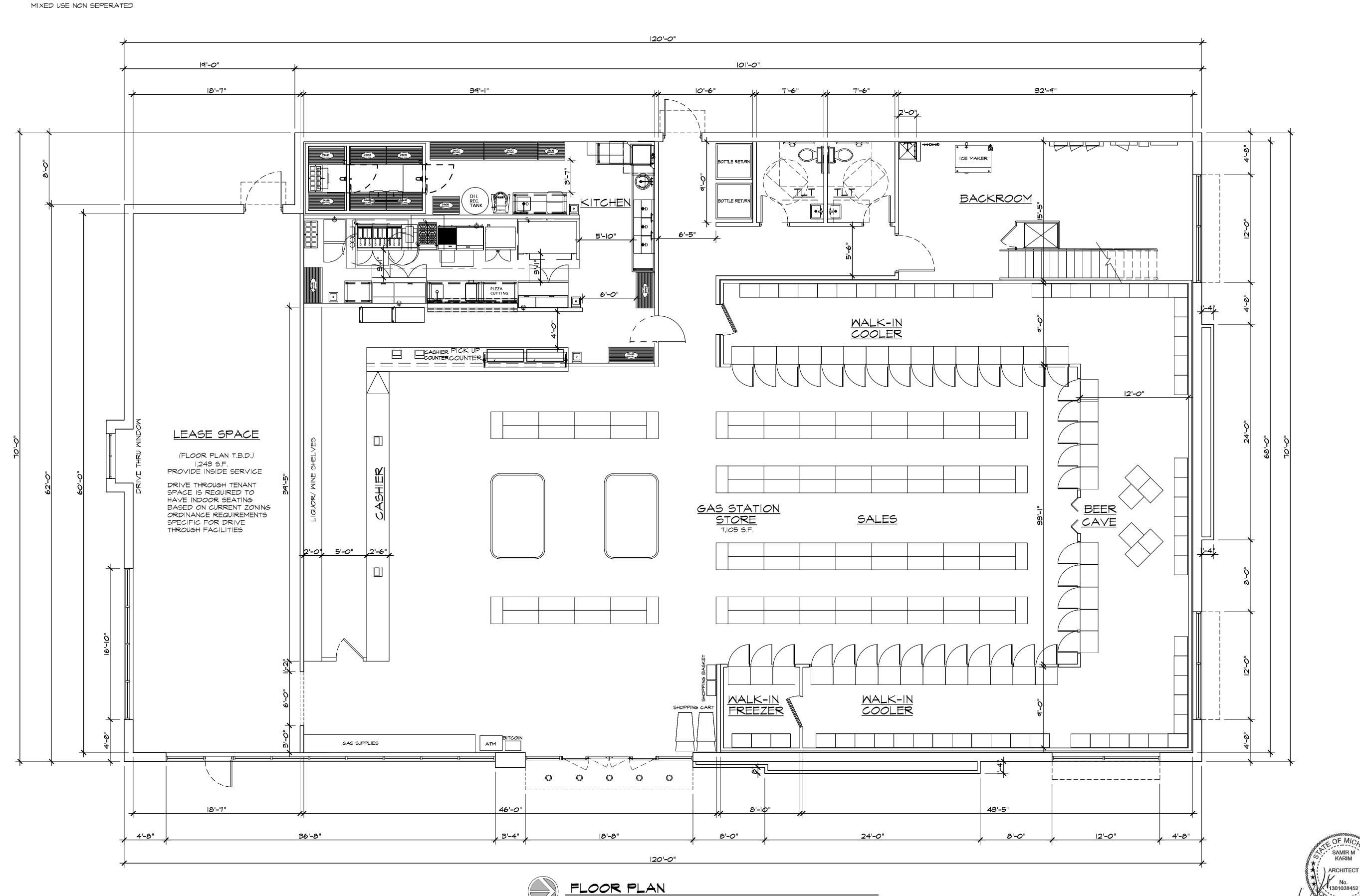
CONSTRUCTION CODE

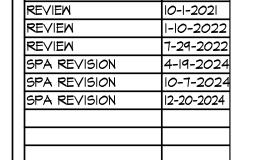
 2009 ICC/ANSI AIIT.I AND MICHIGAN BARRIER FREE DESIGN LAW P.A. I OF 1966 AS AMENDED.

 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH 2013 ASHRAE STANDARD 90.1 STANDARD INCLUDING AMENDMENTS.

SCALE: 3/16 = 1'-0"

2015 MICHIGAN UNIFORM ENERGY CODE, PART IOA





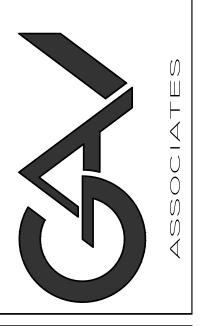
DATE

ISSUED FOR

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> RESIDENTIAL COMMERCIAL INDUSTRIAL

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DESIGNED: CHECKED: DRAWN: G.A. G.A.

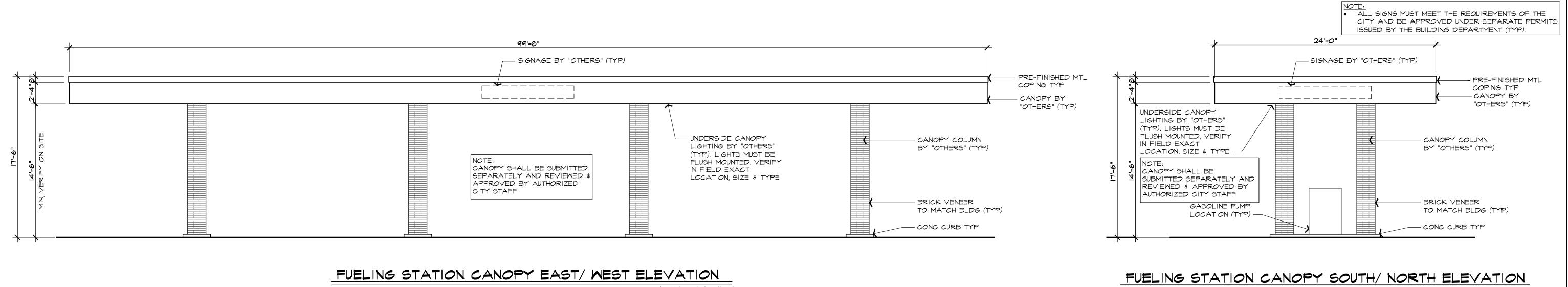
SCALE : AS SHOWN

FILE NAME :

JOB #: 21091

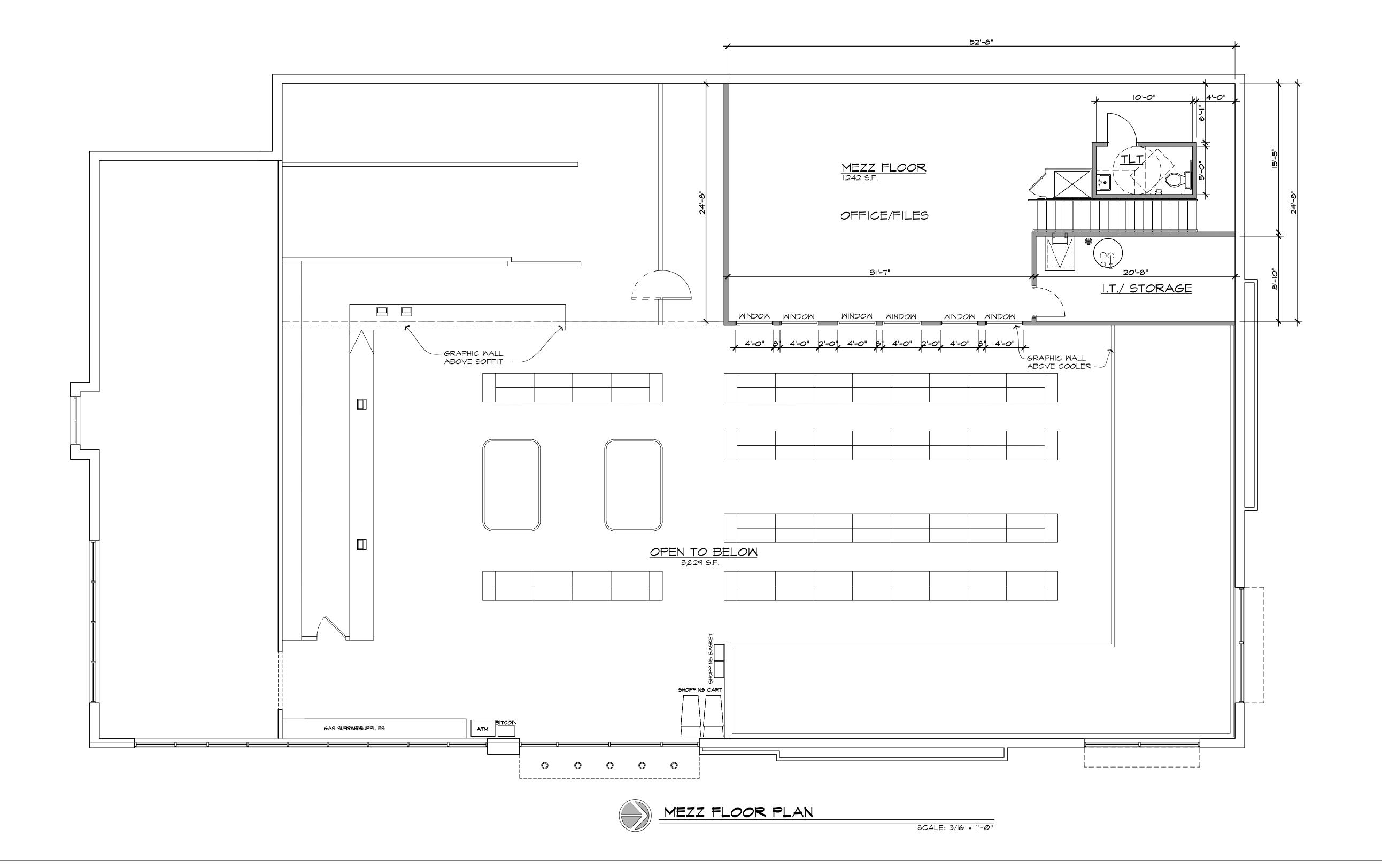
SHEET TITLE FLOOR PLAN

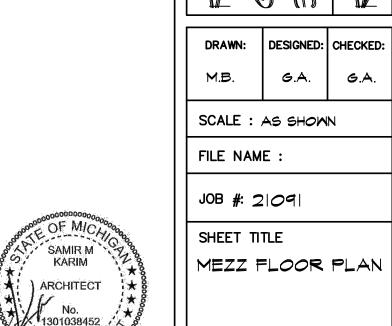
SHEET #



SCALE: 3/16" = 1'-0"

SCALE: 3/16" = 1'-0"



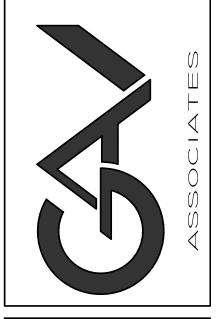


ISSUED FOR 7-29-2022 REVIEW SPA REVISION 4-19-2024 SPA REVISION 10-7-2024

ARCHITECTURAL DESIGN

RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



G.A.

SCALE : AS SHOWN

MEZZ FLOOR PLAN

SHEET #





MTL. CANOPY (TYP.)

EAST ELEVATION

METAL SIDING "WOOD LOOK" (TYP)

SCALE: 3/16" = 1'-0"

--- WALL SCONCE (TYP)

- COLORED METAL PANELS (TYP)

BRICK VENEER (TYP)

METAL SIDING "WOOD LOOK" (TYP)

ARCHITECTURAL DESIGN

RESIDENTIAL COMMERCIAL INDUSTRIAL

G.A.V. ASSOCIATES, INC 24001 ORCHARD LAKE RD., STE. 180A FARMINGTON, MICHIGAN 48336 PH: (248) 985-9101 WEB: WWW.GAVASSOCIATES.COM



OSED DRAMINGS FOR: Station Rochester Road

DRAWN: DESIGNED: CHECKED:

M.B. G.A. G.A.

SCALE : AS SHOWN

FILE NAME :

FILE NAME :

JOB #: 21091 SHEET TITLE

) ARCHITECT

SHEET TITLE

EXTERIOR

RENDERINGS

SHEET #

SHEET #

Reviewed plans.pdf Markup Summary

Assessing Yes (1)

Subject: Planning Department Author: C.McLeod Date: 2/13/2025 3:01:11 PM Status:

BP (1)

Subject: Group Author: C.McLeod Date: 2/13/2025 2:04:16 PM Status:

BP (1)

Buffer D Requirement along southern property line (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:57:25 PM

Status:

Buffer D Requirement along southern property line

City of Rochester Hills Planning & Economic Development (1)



Subject: Group
Author: macdonaldj

Date: 2/5/2025 10:03:51 AM

Status:

City of Rochester Hills Planning & Economic Development

City requirements of 10 stacking spaces. Stacking based on City requirement does not appear to conflict with onsite traffic. Stacking



Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:36:45 PM

Status:

City requirements of 10 stacking spaces. Stacking based on City requirement does not appear to conflict with onsite traffic. Stacking based on MDOT stacking requirement appears to cause potential conflict with traffic entering and exiting site, however, since City requirement is met, any additional comment is left for MDOT review.

Dimensions for accessible spaces must be 11' wide by 18' deep. Accessible aisle shall be 5' wide. (1)



Landscape bond = \$94,480

Subject: Building Department

Author: J Rhoades

Date: 2/11/2025 10:32:17 AM

Status:

Dimensions for accessible spaces must be 11' wide by 18' deep. Accessible aisle shall be 5' wide.

Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org (1)

Subject: Building Department

Author: J Rhoades

Date: 2/11/2025 10:33:39 AM

Status:

Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org

Landscape bond = \$94,480(1)

Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:35:50 PM

Status:

Landscape bond = \$94,480

LB (2) Subject: Group LB Author: C.McLeod Date: 2/13/2025 2:05:08 PM Subject: Group LB Author: C.McLeod Date: 2/13/2025 2:04:34 PM Status: LIP (1) Subject: Group LIP Author: C.McLeod Date: 2/13/2025 2:04:00 PM Status: Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plans Subject: Planning Department Maintenance. The owner, tenant, occupant or Author: C.McLeod person responsible for any property which was the Date: 2/13/2025 2:10:13 PM subject of an approved site plan shall maintain the Status: property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles, handicapped parking areas, etc. MDOT permit required prior to construction plan approval. Clarify permit requirements are met regarding MDOT's stacking require Subject: Underground Utilities MDOT permit required prior to construction plan Author: Keith approval. Clarify permit requirements are met Date: 2/14/2025 8:43:44 AM regarding MDOT's stacking requirement prior to Status: site plan approval. PCM (2) Subject: Group **PCM** Author: C.McLeod Date: 2/13/2025 2:55:57 PM Status: Subject: Group **PCM** Author: C.McLeod Date: 2/13/2025 2:55:03 PM Status:

Planning Commission Review (1)



Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:07:20 PM

Status:

Planning Commission Review

SAME COMMENTS FROM SANITARY BOD APPLY HERE (1)

Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:05:01 PM

Status:

SAME COMMENTS FROM SANITARY BOD

APPLY HERE

Seth Bucholz 248-841-2491

Yes bucholzs@rochesterhills.org (1)

Subject: Text Box Author: macdonaldj

Date: 2/18/2025 4:51:20 PM

Status:

Seth Bucholz 248-841-2491 bucholzs@rochesterhills.org

Yes

SP (1)



Subject: Group Author: C.McLeod

Date: 2/13/2025 2:03:56 PM

Status:

SP

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans



Subject: Engineering Department

Author: Angie

Date: 2/13/2025 12:08:02 PM

Status:

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

THERE IS A RESTRICTIVE COVENANT FROM 2002 ON THIS PROPERTY RECORDED AS LIBER 27086 PAGE 385 AS A RES



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:02:16 PM

Status:

THERE IS A RESTRICTIVE COVENANT FROM 2002 ON THIS PROPERTY RECORDED AS LIBER 27086 PAGE 385 AS A RESULT OF A UST LEAK. UNLESS DOCUMENTATION CAN BE PROVIDED THAT INDICATES A FULL REMEDIATION OF THE SITE HAS OCCURED IN ACCORDANCE WITH AN APPROVED CORRECTIVE ACTION PLAN, AND EGLE HAS ALLOWED FOR THE MONITORING WELLS TO BE REMOVED, THE LAND USE AND RESOURCE LIMITATIONS OUTLINED IN THE RESTRICTIVE COVENANT WILL APPLY AND SHALL BE ADHERED TO DURING CONSTRUCTION. A DUE CARE PLAN MAY BE REQUIRED AT TIME OF CONSTRUCTION PLAN REVIEW.

These trees need to be adequately protected throughout construction of masonry wall, etc. If damaged or removed; these will be t



Subject: Natural Resources Author: Matt Einheuser Date: 2/6/2025 10:37:05 AM

Status:

These trees need to be adequately protected throughout construction of masonry wall, etc. If damaged or removed; these will be treated as violation subject to replacement at 100% dbh and a civil fine.

THIS SHOULD BE REVISED TO 1 REU AND A POPULATION OF 2.44 (1)



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:04:26 PM

Status:

THIS SHOULD BE REVISED TO 1 REU AND A

POPULATION OF 2.44

THIS TABLE SHOULD BE UPDATED ACCORDINGLY. (1)



Tree Fund = \$4,008

Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:03:33 PM

Status:

THIS TABLE SHOULD BE UPDATED

ACCORDINGLY.

Tree Fund = \$4,008(1)

Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:59:01 PM

Status:

Tree Fund = \$4,008

Tree Fund = \$6,012 for modification of Buffer D (if granted) (1)

LOCATION NO
Tree Fund * \$8.022 for modification of Buffer 0 if gueroes

Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 2:58:57 PM

Status:

Tree Fund = \$6,012 for modification of Buffer D (if

granted)

WILL NEED TO PROFILE THIS AT TIME OF ENGINEERING PLAN REVIEW SUBMISSION (1)



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:06:37 PM

Status:

WILL NEED TO PROFILE THIS AT TIME OF ENGINEERING PLAN REVIEW SUBMISSION

Yes with conditions (1)

Subject: Building Department

Author: J Rhoades

Yes with conditions **Date:** 2/11/2025 10:34:00 AM

Status:

Yes with conditions

(15)

Subject: Fire Department

Author: Jon Mills

Date: 2/6/2025 7:13:18 AM

Status:

Subject: Natural Resouces Author: Matt Einheuser Date: 2/6/2025 10:37:31 AM

Status:

.....

Subject: Engineering Department **Author:** Jason Boughton **Date:** 2/13/2025 12:15:09 PM

Status:

Status.

Subject: Group Author: C.McLeod

Date: 2/13/2025 2:08:15 PM

Status:

See Toy Provide Institute of the Section Property of t



Subject: Group Author: C.McLeod

Date: 2/13/2025 2:10:05 PM

Status:



Subject: Group Author: C.McLeod

Date: 2/13/2025 2:15:16 PM

Status:

Chris McLand 248-841-2572 Yes moleculo 9 RochasterHills con

Subject: Planning Department

Author: C.McLeod

Date: 2/13/2025 3:00:24 PM

Status:

Subject: Traffic Author: Keith

Date: 2/14/2025 8:49:04 AM

Status:



Subject: Highlight Author: Jon Mills

Date: 2/6/2025 7:10:36 AM

Status:



Subject: Highlight Author: Jon Mills

Date: 2/6/2025 7:10:48 AM

......

Status:



Subject: Underground Utilities

Author: Angie

Date: 2/13/2025 12:06:23 PM

Status:



Subject: Contractor Author: C.McLeod

Date: 2/13/2025 2:10:55 PM

Status:



Subject: Group Author: C.McLeod

Date: 2/13/2025 2:11:12 PM

Status:



Subject: Contractor Author: C.McLeod

Date: 2/13/2025 2:55:11 PM

Status:

\$12,480.00 \$10,000.00 \$94,480.00

Subject: Contractor Author: C.McLeod
Date: 2/13/2025 2:04:41 PM
Status: