# Site Plan Review

Reviewed for compliance to the City Ordinance, Building and Fire Codes

Department	Reviewer	Approved
Planning	Chris McLeod 248-841-2572 mcleodc@RochesterHills.org	Yes
Building	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org	Yes
Engineering	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes
Nat. Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	Yes
Fire	Lt. Jon Mills 248-841-2708 MillsJ@RochesterHills.org	Yes

City of Rochester Hills Planning & Economic Development

Conditions and mark-ups noted throughout the plan set must be addressed prior to final approval.

NRNB2022-0006

DATE SUBMITTED DATE APPROVED

PERMIT / APPROVAL SUMMARY

PERMIT / APPROVAL

CITY OF ROCHESTER HILLS SPA APPROVAL

provide cross access

documents to City/Traffic prior to final approval.

PRELIMINARY SITE PLANS

# JAX KAR WASH ROCHESTER HILLS

2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI



WABASH	ROAD	BARCLAY CIR	-
HICKORY LAWN ROAD	AUBURN ROAD	S. ROCHESTER ROAD	NORTH

**LOCATION MAP** 

# **INDEX OF DRAWINGS**

NUMBER	TITLE
	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-2.0	OVERALL SITE PLAN
C-3.0	PRELIMINARY SITE PLAN
C-4.0	PRELIMINARY GRADING PLAN
C-6.0	PRELIMINARY UTILITY PLAN
C-9.0	NOTES AND DETAILS
C-10.0	FIRE PROTECTION PLAN
L-1.0	PRELIMINARY LANDSCAPE PLAN
L-1.1	LANDSCAPE DETAILS
A100	FLOOR PLAN
A200	ELEVATIONS

LIGHTING PLAN & CALCULATIONS

# **DESIGN TEAM**

OWNER/APPLICANT/DEVELOPER CIVIL ENGINEER

JAX KAR WASH 28845 TELEGRAPH ROAD SOUTHFIELD, MI 48034 CONTACT: JASON MILEN PHONE: 248-353-4700 EMAIL: JASON@JAXKARWASH.NET

ARCHITECT

NUDELL ARCHITECTS 30403 W. 13 MILE ROAD FARMINGTON HILLS . MI 48334 CONTACT: BRIAN SMEDLEY PHONE: 248.324.8800 EMAIL: BSMEDLEY@JHN.COM

LANDSCAPE ARCHITECT

EMAIL: SSIEG@PEAGROUP.COM

2430 ROCHESTER COURT, STE. 100

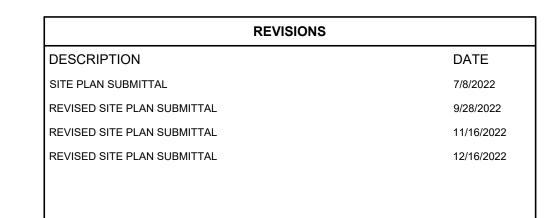
PEA GROUP

TROY, MI 48083-1872

PHONE: 844.813.2949

CONTACT: SCOTT SIEG

PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 CONTACT: JANET EVANS, PLA PHONE: 844.813.2949 EMAIL: JEVANS@PEAGROUP.COM GROUP





2

UL O

NOT FOR CONSTRUCTION

**CITY FILE #22-023 SECTION #27** 

LEGEND: LEGAL DESCRIPTION BENCHMARKS FLOODPLAIN NOTE: THE SUBJECT PARCEL LIES WITHIN AN AREA DETERMINED TO BE IN A NON-PRINTABLE PANEL, OUTSIDE OF THE 0.2% ANNUAL (GPS DERIVED - NAVD88) PARCEL ID 15-27-477-067 -OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY CHANCE FLOODPLAIN (ZONE 'X') PER FEMA FLOOD INSURANCE RATE MAP NUMBER 26125C0394F, DATED SEPTEMBER 29, 2006. -UG-CATV-TV- EX. U.G. CABLE TV & PEDESTAL T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065 -UG-ELEC-C-E-E-E EX. U.G. ELEC, MANHOLE, METER & HANDHOLE TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. — 771.66 — - — - — EX. GAS LINE © GAS EX. GAS VALVE & GAS LINE MARKER BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED EX. TRANSFORMER & IRRIGATION VALVE t: 844.813.2949 APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER — — — – EX. WATER MAIN www.peagroup.com ROAD) IN A PARKING LOT ISLAND. EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE (NOT SHOWN ON SURVEY) ELEV. — 767.87 \_\_\_\_\_ EX. SANITARY SEWER © S EX. SANITARY CLEANOUT & MANHOLE PARCEL NO. 15-27-479-001 THRU 004 EX. COMBINED SEWER MANHOLE ROCHESTER MEDICAL PLAZA CONDOMINIUM \_\_\_ \_ EX. STORM SEWER EX. CLEANOUT & MANHOLE O.C.C.S. PLAN NO. 1982 EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN (Liber 40503, Page 580) EX. YARD DRAIN & ROOF DRAIN EX. UNIDENTIFIED STRUCTURE EX. MAILBOX, SIGN & LIGHTPOLE \_ EX. FENCE EX. SPOT ELEVATION ್ಲ್ 8"WM (REF) — → — → EX. CONTOUR EX. WETLAND N87°12'13"E(SPC) S88°31'09"E(RAC) 661.74'(R&M) IRON FOUND / SET NAIL FOUND / NAIL & CAP SET BRASS PLUG SET MONUMENT FOUND / SET SECTION CORNER FOUND ☆ 2'BASE RECORDED / MEASURED / CALCULATED REFERENCE DRAWNGS: ALTA/NSPS LAND TITLE SURVEY, NOWAK & FRAUS JOB NO. J831, DATED 10/05/20 2'BASE 🔆 CONSUMERS ENERGY MAP 03-61-27-4 DATED 12/21/2009 CITY OF ROCHESTER ILLS GIS, EMAIL DATED 06/07/2022 & 4"MTL POST ON CONCRETE SANITARY SEWER CITY OF ROCHESTER ILLS GIS, EMAIL DATED 06/07/2022 CAUTION!! CITY OF ROCHESTER ILLS GIS, EMAIL DATED 06/07/2022 @ DOOR GRASS HAVE NOT RECEIVED AS OF 06/08/2022 2.8'X2.7' T PARCEL NO. 15-27-477-067 CONC VACUUMS 2716 S. ROCHESTER RD DETENTION BASIN CONC CONCRETE COLUMN (TYP)

COLUMN (TYP) FF 767.75-DTE EASEMENT (L.52685, P.253) (L.10758, P.754) 3' DOOR -CLIENT **JAX KAR WASH** FF 765.37 CAR WASH ENTRANCE 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034 4" METAL-7 POST (TYP.) JAX KAR WASH & AUTO DETAILING 2728 S. ROCHESTER RD FF 765.42 CAR WASH ENTRANCE RIM 766.09 6"NE 766.34 6"SE 766.24 6"SW 766.19 6"NW 766.29 12"NE 764.34 12"SW 764.34 8" SAN (REF) PROJECT TITLE <sub>╇</sub>╌╌╼╪╌╌╼╪╌╌╼╪╌╌╼╪╌╌╼╪╴╌╌═╬╶╌╌═╬╶╌ 12"NE 760.70 12"SW 761.00 12"SE 760.90 ROCHESTER AUTOMOTIVE CONDOMINIUM CONC ROCHESTER HILLS, OAKLAND COUNTY, MI N88°31'09"W(RAC) 661.89'(R&M) — — — FOUND IRON W/CAP WARD 22445 BELLE TIRE 2740 S. ROCHESTER RD ORIGINAL ISSUE DATE: JULY 8, 2022 DRAWING TITLE **SURVEY** 8' PEDESTRIAN-BICYCLE (L.10758, P.874) DRAWING NUMBER:

GROUP









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.

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS OAKLAND COUNTY MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

**TOPOGRAPHIC** 

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	AJM
DES.	SWS
DDAMING NUMBER	

NOT FOR CONSTRUCTION **CITY FILE #22-023 SECTION #27** 

107 14

•

BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. - 771.66

BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER ROAD) IN A PARKING LOT ISLAND. (NOT SHOWN ON SURVEY) ELEV. - 767.87

LEGAL DESCRIPTION

Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065

"GENERAL BUSINESS" DISTRICT

PROPOSED BUILDING 8,632 SF. F.F. 767.35

ZONED B5 "AUTOMOTIVE BUSINESS" DISTRICT ROCHESTER MEDICAL PLAZA CONDOMINIUM O.C.C.S. PLAN NO. 1982

(Liber 40503, Page 580)

①

1

N87°12'13"E(SPC) S88°31'09"E(RAC) 661.74'(R&M)

BELLE TIRE 2740 S. ROCHESTER RD

UNIT 2

UAX KAR WASH & AUTO DETAILING 2728 S. ROCHESTER RD

DETENTION BASIN

PARCEL ID 15-27-477-067

SITE DATA TABLE:

SITE AREA: 3.46 ACRES (150,905 SF.) NET AND GROSS

ZONING: B5 (AUTOMOTIVE BUSINESS DISTRICT)

PROPOSED USE: AUTOMOTIVE (8,632 SF)

BUILDING INFORMATION:

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

PROPOSED BUILDING HEIGHT = 28 STORY

EXISTING BUILDING FOOTPRINT AREA = 25,154 SF. PROPOSED BUILDING FOOTPRINT AREA = 8,632 SF.

TOTAL BUILDING FOOTPRINT AREA = 33,786 SF. BUILDING LOT COVERAGE = 22.39%

EXISTING OPEN AREA = 0.55 ACRES (23,958 SF) PROPOSED OPEN AREA = 0.60 ACRES (26,278 SF)

**SETBACK REQUIREMENTS:** PROPOSED: FRONT (EAST) 411.99' 50.16 SIDE (NORTH) SIDE (SOUTH) 43.83' REAR (WEST) 136.12

PARKING CALCULATIONS:

EXISTING TUFFY SERVICE SIGN TO BE REMOVED

JAX KAR WASH = 1 SPACE PER EMPLOYEES + 4 STACKING PER WASH BAY + 1 EXTRA STACKING FOR POST WASH DETAILING:

JAX KAR WASH = 3 EMPLOYEES + 8 ( 2 WASH BAYS) + 1 EXIT STACKING = 12 SPACES

JAX KAR DETAILING = 1 SPACE PER EMPLOYEES + 1 SPACE PER DETAILING STATION JAX KAR DETAILING = 6 EMPLOYEES + 6 ( DETAILING STATIONS) = 12 SPACES

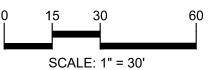
| SELF SERVE CAR WASH = 1 SPACE PER WASH BAY + 1 SPACE FOR POST WASH DETAILING: | SELF SERVE CAR WASH= 5 WASH BAYS + 5 (POST WASH DETAILING) = 10 SPACES

TOTAL REQUIRED PARKING = 34 SPACES INCLUDING 2 BARRIER FREE TOTAL PROPOSED PARKING SPACES = 38 SPACES INCLUDING 2 BARRIER FREE GROUP

t: 844.813.2949 www.peagroup.com









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

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS OAKLAND COUNTY MI ROCHESTER HILLS, OAKLAND COUNTY, MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

ORIGINAL ISSUE DATE: JULY 8, 2022

DRAWING TITLE

**OVERALL SITE PLAN** 

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	AJM
DES.	SWS
DRAWING NUMBER	

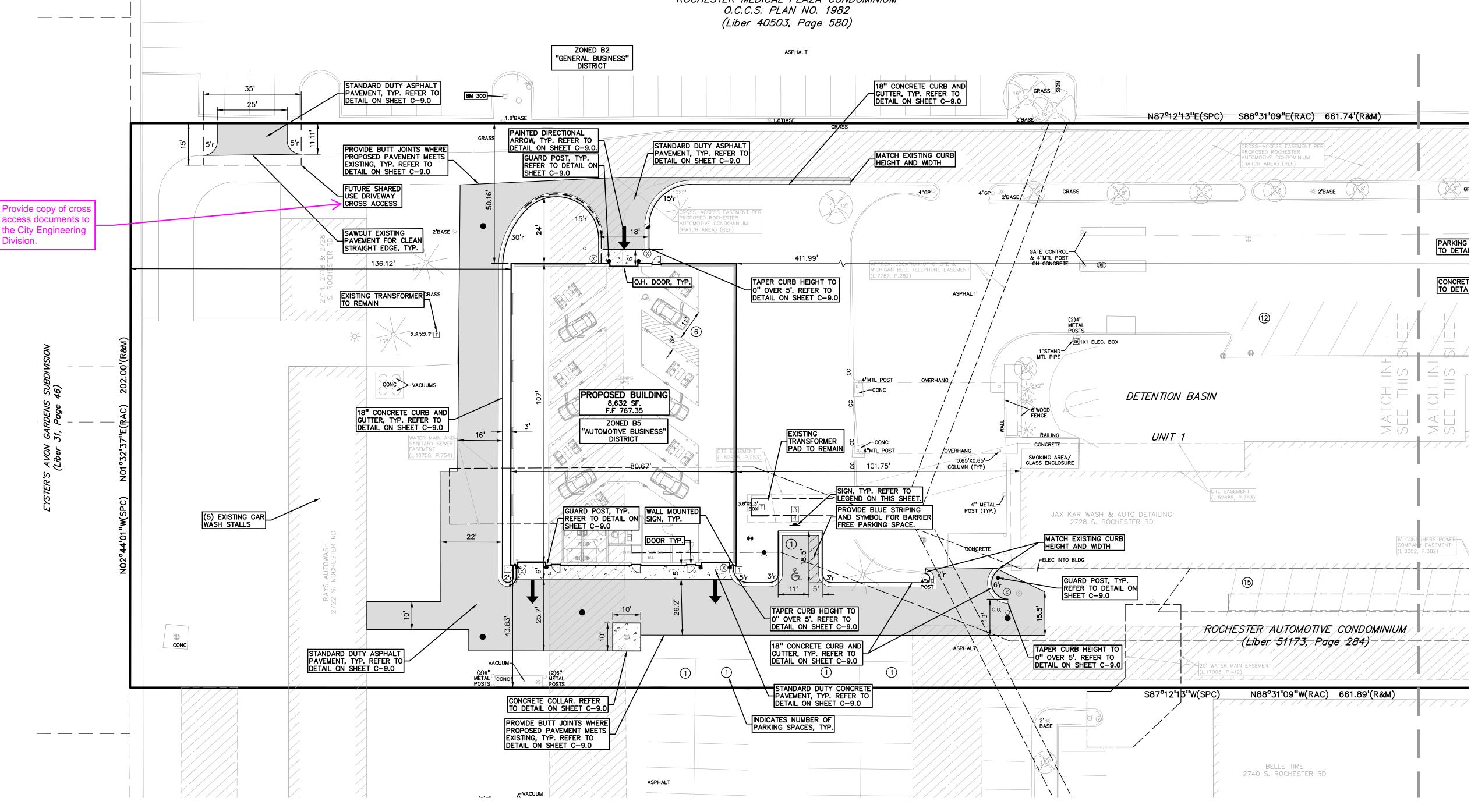
BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. — 771.66

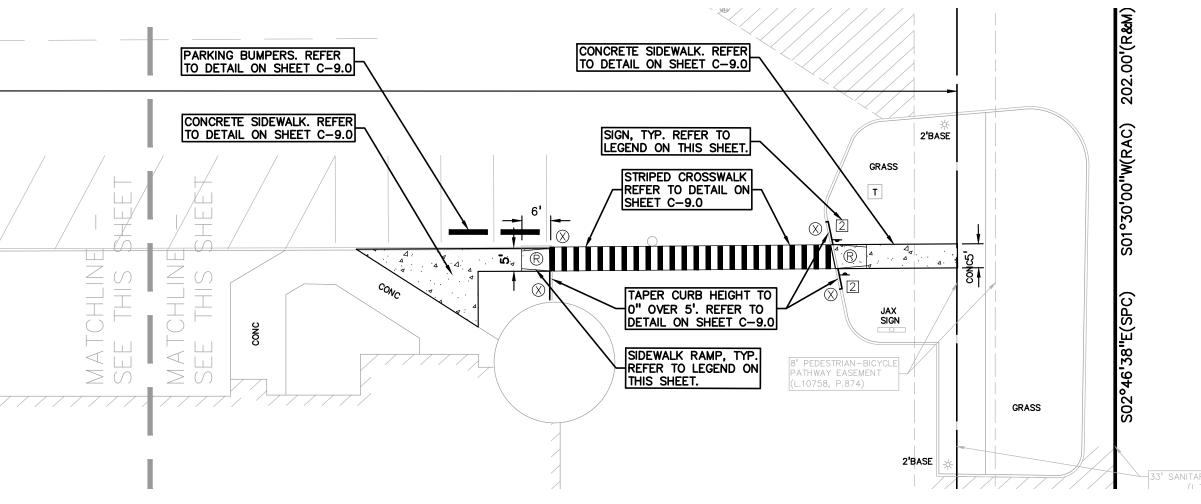
BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER ROAD) IN A PARKING LOT ISLAND. (NOT SHOWN ON SURVEY) ELEV. — 767.87

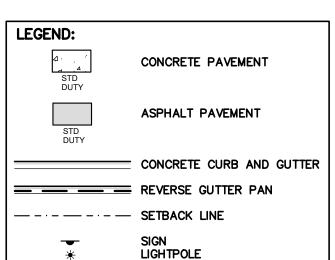
LEGAL DESCRIPTION

PARCEL ID 15-27-477-067 Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065

> ROCHESTER MEDICAL PLAZA CONDOMINIUM O.C.C.S. PLAN NO. 1982







SIGN LEGEND:

'EXIT ONLY' SIGN

'CROSSWALK' SIGN

'VAN ACCESSIBLE' SIGN

'BARRIER FREE PARKING' SIGN

REFER TO DETAIL SHEET FOR SIGN DETAILS



t: 844.813.2949

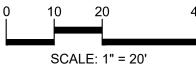
www.peagroup.com

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.

REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.







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. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

**JAX KAR WASH** ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

ORIGINAL ISSUE DATE: JULY 8, 2022

DRAWING TITLE

**PRELIMINARY** SITE PLAN

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	AJM
DES.	SWS
DRAWING NUMBER	).

NOT FOR CONSTRUCTION **CITY FILE #22-023 SECTION #27** 

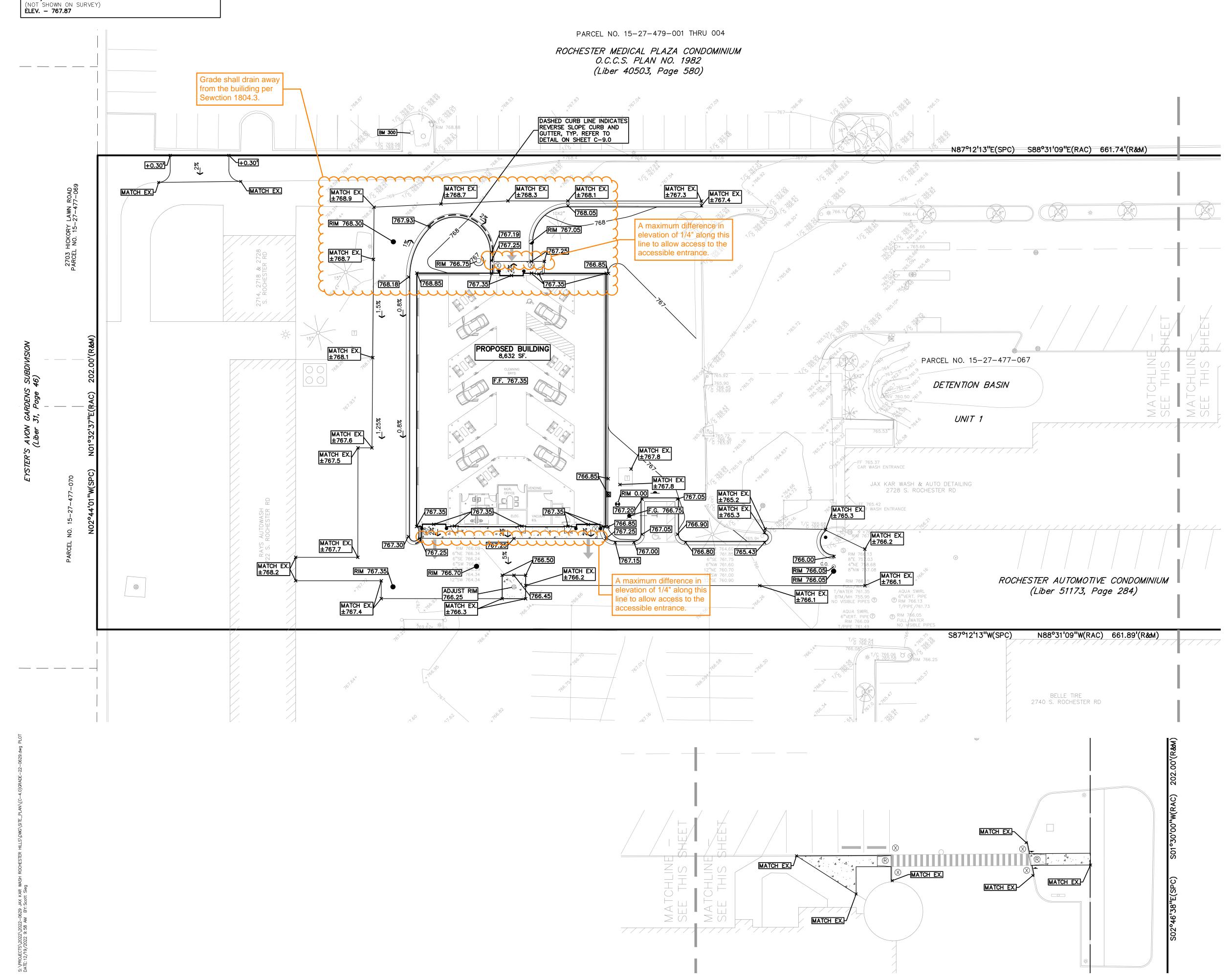
BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. — 771.66

BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER ROAD) IN A PARKING LOT ISLAND.

LEGAL DESCRIPTION

PARCEL ID 15-27-477-067

Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065



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 PAN

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

## **ABBREVIATIONS**

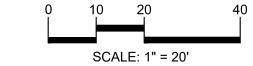
T/C = TOP OF CURB G = GUTTER GRADE T/P = TOP OF PAVEMENT F.G. = FINISH GRADE T/S = TOP OF SIDEWALK RIM = RIM ELEVATIONT/W = TOP OF WALLB/W = BOTTOM OF WALL



www.peagroup.com









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

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

ORIGINAL ISSUE DATE: JULY 8, 2022

DRAWING TITLE **PRELIMINARY** 

**GRADING PLAN** 

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	AJM
DES.	SWS
DRAWING NUMBER	R:

NOT FOR CONSTRUCTION CITY FILE #22-023 SECTION #27

BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. — 771.66

BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER ROAD) IN A PARKING LOT ISLAND. (NOT SHOWN ON SURVEY) ELEV. — 767.87

LEGAL DESCRIPTION

PARCEL ID 15-27-477-067 Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065

STORM RUN-OFF CALCS: SITE = 3.46 AC**EXISTING SITE:** IMPERVIOUS AREA = 2.91 (c=0.95) PERVIOUS AREA = 0.55 (c=0.35) C FACTOR = 0.855PROPOSED SITE: IMPERVIOUS AREA = 2.84 (c=0.95) PERVIOUS AREA = 0.62 (c=0.35) C FACTOR = 0.842 THE PROPOSED STORM RUN-OFF WILL BE LESS THAN EXISTING CONDITIONS. NO STORM SEWER IMPROVEMENTS ARE BEING PROPOSED.

SANITARY SEWER BASIS OF DESIGN:			WATER MAIN BASIS OF DESIGN:
(Unit Factors Based on Oakland County Unit Assigni	ment Fact	ors)	(Unit Factors Based on Oakland Cour
CAR WASH/DETAILING			CAR WASH/DETAILING
Building Area (SF)	33,786		Building Area (SF)
Unit Factor	0.29	/1,000 SF	Unit Factor
REU	9.8		REU
Population (P) (3.5 PEOPLE/EDU)	34.3	People	Population (P) (3.5 PEOPLE/EDU)
TOTAL			TOTAL
REU	9.8		REU
	34	People	
Average Flow (100 GPCPD)	3,400	G.P.D.	Average Flow (150 GPCPD)
	0.005	C.F.S.	
P (1000s)	0.034		
Peaking Factor (PF)	4.35		
$PF = \frac{18 + \operatorname{sqrt}(P)}{4 + \operatorname{sqrt}(P)}$			Design Max. Flow = (2*avg)
Peak Flow (G.D.P.)	14,776	G.P.D.	
Peak Flow (C.F.S.)	0.023	C.F.S.	
			Building Type =
6" Pipe Capacity Provided =	0.73	C.F.S.	Required Fire Flow =

Based on Oakland County Unit Assignment Factors) 33786 0.29 /1,000 SF 9.8 34.3 People 9.8 34 People 5,100 G.P.D. 0.008 C.F.S. 0.005 M.G.D. 10200.00 G.P.D. 0.016 C.F.S. 0.010 M.G.D. Required Fire Flow = 1500 psi for 2 hours

2700, 2708 & 2710 S. ROCHESTER ROAD PARCEL NO. 15-27-479-001 THRU 004 ROCHESTER MEDICAL PLAZA CONDOMINIUM O.C.C.S. PLAN NO. 1982 (Liber 40503, Page 580) 8"WM (REF) — — — N87°12'13"E(SPC) S88°31'09"E(RAC) 661.74'(R&M) CATCH BASIN W/FLOATABLE TRAP AND 3' SUMP 12" NYLOPLAST YARD DRAIN 2'BASE/ STORM MANHOLE, TYP. — ĖLEC. – EXISTING ELECTRICAL 2'BASE ⊰ CONNECTION TO BE REROUTED APPROX. LOCATION OF 6' DTE & MICHIGAN BELL TELEPHONE EASEMENT (L.7787, P.282) 2.8'X2.7' 1X1 ELEC. BOX EXISTING TRANSFORMER TO REMAIN PARCEL NO. 15-27-477-067 PROPOSED BUILDING EXISTING DETENTION BASIN REFER TO SHEET LD-100 FOR SITE LIGHTING UNIT 1 WATER MAIN AND SANITARY SEWER EASEMENT (L.10758, P.754) - 4"MTL POST \_ EXISTING TRANSFORMER TO REMAIN DTE EASEMENT EXISTING 2" WATER LEAD TO BE REROUTED AROUND (L.52685, P.253) ELECTRICAL SERVICE LOCATION-GAS SERVICE LOCATION-PROPOSED 2" WATER SHUTOFF BOX JAX KAR WASH & AUTO DETAILING PROPOSED BUILDING 2728 S. ROCHESTER RD PROPOSED 2" COPPER CONNECT TO EXISTING K' WATER SERVICE LEAD CONNECT TO 8" SANITARY
SEWER DOWNSTREAM FROM
EXISTING SANITARY MANHOLE 2" GAS SERVICE LEAD 6' CONSUMERS POWEF COMPANY EASEMENT (L.8002, P.382) PROPOSED FIRE HYDRANT SANITARY MANHOLE CONNECT TO EXISTING 8" WATER MAIN EXISTING SANITARY LEAD CONNECTION SANITARY CLEANOUT ROCHESTER AUTOMOTIVE CONDOMINIUM -<del>/ (Liber/51173, Page/284)</del>////////// CONSTRUCT DOGHOUSE MANHOLE EXISTING CATCH BASIN TO REMAIN. ADJUST RIM TO PROPOSED GRADE OVER EXISTING 12" STORM SEWER N88°31'09"W(RAC) 661.89'(R&M) 2740 S. ROCHESTER RD

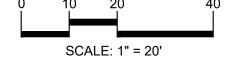
UTILITY LEGEND: DH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE UG-ELEC-@-EX. U.G. ELEC, MANHOLE, METER & HANDHOLE – – — – **ex. gas line** © GAS EX. GAS VALVE & GAS LINE MARKER EX. TRANSFORMER & IRRIGATION VALVE EX. WATER MAIN Control of the second of the s EX. SANITARY SEWER EX. SANITARY CLEANOUT & MANHOLE EX. COMBINED SEWER MANHOLE EX. STORM SEWER EX. CLEANOUT & MANHOLE EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN EX. YARD DRAIN & ROOF DRAIN EX. UNIDENTIFIED STRUCTURE \_ \_ \_ PROPOSED WATER MAIN igstar  $\otimes$  Proposed hydrant and gate valve PROPOSED TAPPING SLEEVE, VALVE & WELL PROPOSED POST INDICATOR VALVE \_\_\_ PROPOSED SANITARY SEWER OC.O. PROPOSED SANITARY CLEANOUT & MANHOLE \_\_\_\_ PROPOSED STORM SEWER

OC.O. PROPOSED STORM SEWER CLEANOUT & MANHOLE PROPOSED CATCH BASIN, INLET & YARD DRAIN











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. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

ORIGINAL ISSUE DATE: JULY 8, 2022 DRAWING TITLE

**PRELIMINARY UTILITY PLAN** 

2022-0629 PEA JOB NO. LAA AJMSWS DRAWING NUMBER:

NOT FOR CONSTRUCTION **CITY FILE #22-023 SECTION #27** 



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

4" MDOT 3500 PSI P1 6AA CONCRETE

CLEAN FILL PER CURRENT MDOT SPEC RESTORE AREA PER

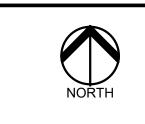
LANDSCAPING PLAN

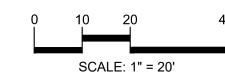
SIDEWALK (NOT TO EXCEED 8' INTERVAL).

WIDTH VARIES - SEE PLAN

2% MAX. CROSS SLOPE

CROSS-SLOPE OF SIDEWALK MUST NOT EXCEED 2.0%, EXCEPT IN TRANSITION AREA MATCHING INTO EXISTING SIDEWALK







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

JAX KAR WASH 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REV. SITE PLAN SUBMITTAL 11.16.2	REVISIONS	
REV. SITE PLAN SUBMITTAL 11.16.2		
	REV. SITE PLAN SUBMITTAL	09.28.2
REV. SITE PLAN SUBMITTAL 12.16.2	REV. SITE PLAN SUBMITTAL	11.16.2
	REV. SITE PLAN SUBMITTAL	12.16.2

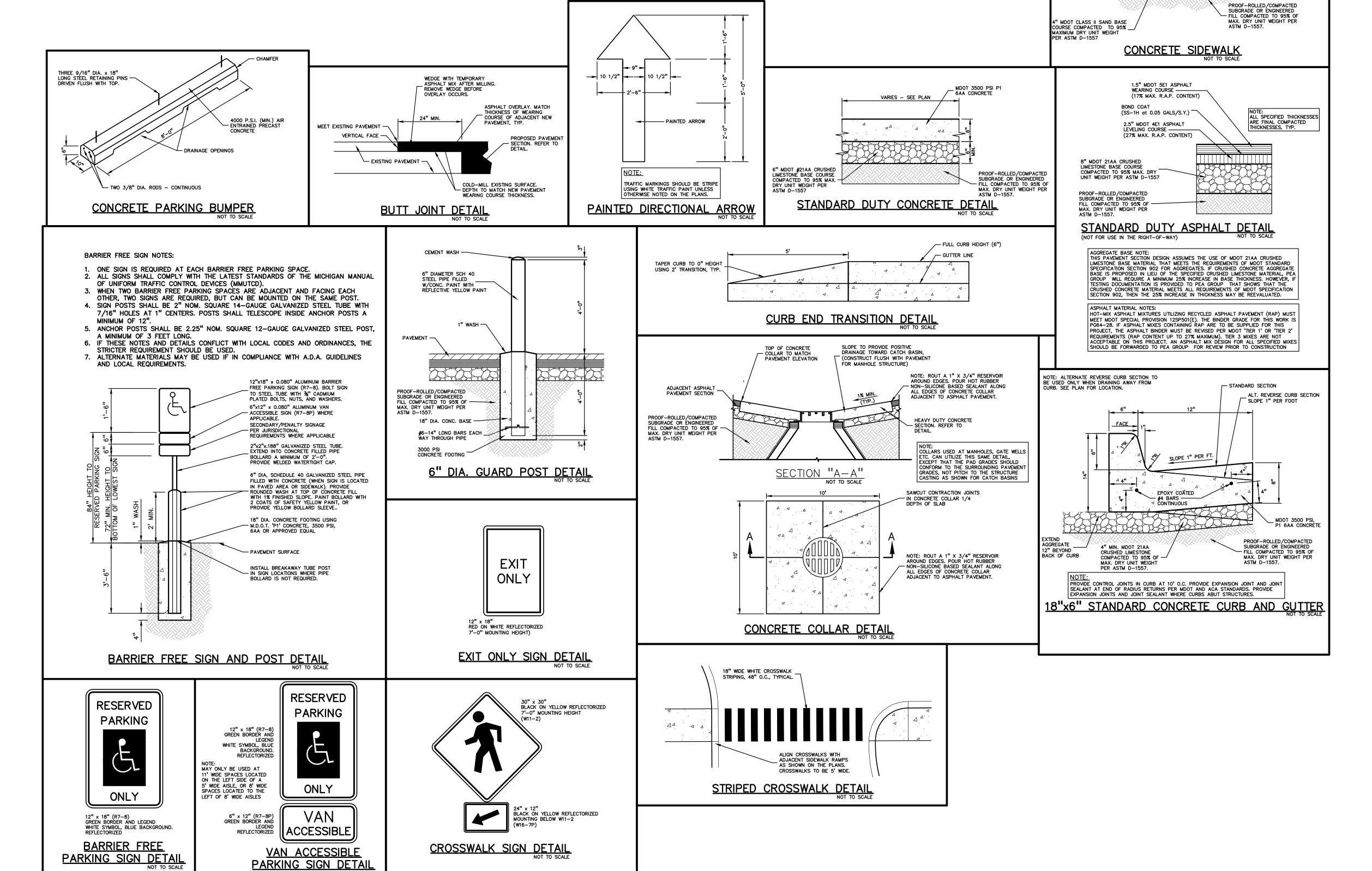
ORIGINAL ISSUE DATE: JULY 8, 2022

DRAWING TITLE

NOTES AND DETAILS

PEA JOB NO. 2022-0629
P.M. LAA

P.M. LAA
DN. AJM
DES. SWS
DRAWING NUMBER:



BM #300 DIMPLE IN ARROW ON A HYDRANT LOCATED APPROX. 89' NORTHWEST FROM THE NORTHWEST BUILDING CORNER OF TUFFY TIRE & AUTO (2716 S. ROCHESTER RD). ELEV. — 771.66

BM #301
MAG NAIL & WASHER ON THE BASE OF A POWER POLE LOCATED APPROX. 83' NORTH OF BARNES & NOBLE (2800 S. ROCHESTER ROAD) IN A PARKING LOT ISLAND.

(NOT SHOWN ON SURVEY) ELEV. — 767.87

LEGAL DESCRIPTION

PARCEL ID 15-27-477-067

Land in the City of Rochester Hills, Oakland County, Michigan, described as follows: T3N, R11E, SEC 27 OAKLAND COUNTY CONDOMINIUM PLAN NO 2206 ROCHESTER AUTOMOTIVE CONDOMINIUM UNIT 1 L 51173 P 284 11-3-17 FR 065

FIRE DEPARTMENT NOTES:

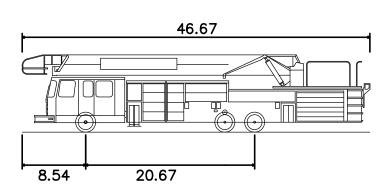
FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL, AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE. FIRE LANE SIGNS SHALL BE SPACED NOT MORE THAN 100 FEET APART, AND SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE" IN CONFORMANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
-FIRE PREVENTION ORDINANCE CHAPTER 58, SECTION 503.

CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC CHAPTER

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 CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES. CONTACT ROCHESTER HILLS FIRE DEPARTMENT FOR PERMIT INFORMATION.

-FIRE PREVENTION ORDINANCE CHAPTER 58, SECTION 307.6.2 & 307.6.2.3

A KNOX KEY SYSTEM SHALL BE INSTALLED AT EACH BUILDING IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE KNOXBOX.COM. IFC 2006 SEC. 506



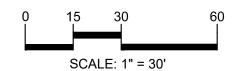
Rochester Hills Fire Truck

Overall Length Overall Width Min Wheel Radius 46.670ft 8.500ft 42.5ft











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

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

PROJECT TITLE

JAX KAR WASH ROCHESTER HILLS 2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REVISIONS	
REV. SITE PLAN SUBMITTAL	09.28.22
REV. SITE PLAN SUBMITTAL	11.16.22
REV. SITE PLAN SUBMITTAL	12.16.22

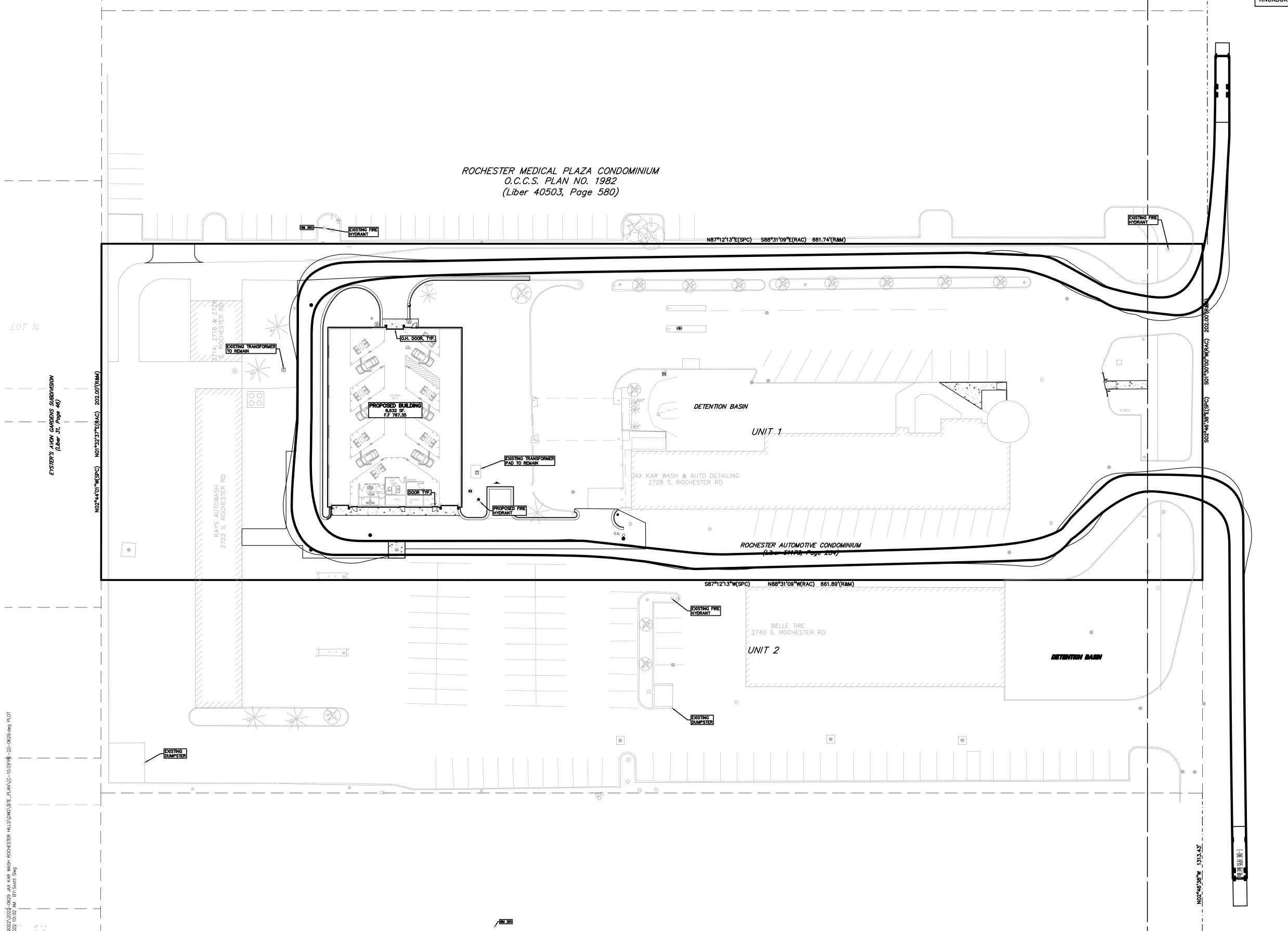
JULY 8, 2022 DRAWING TITLE

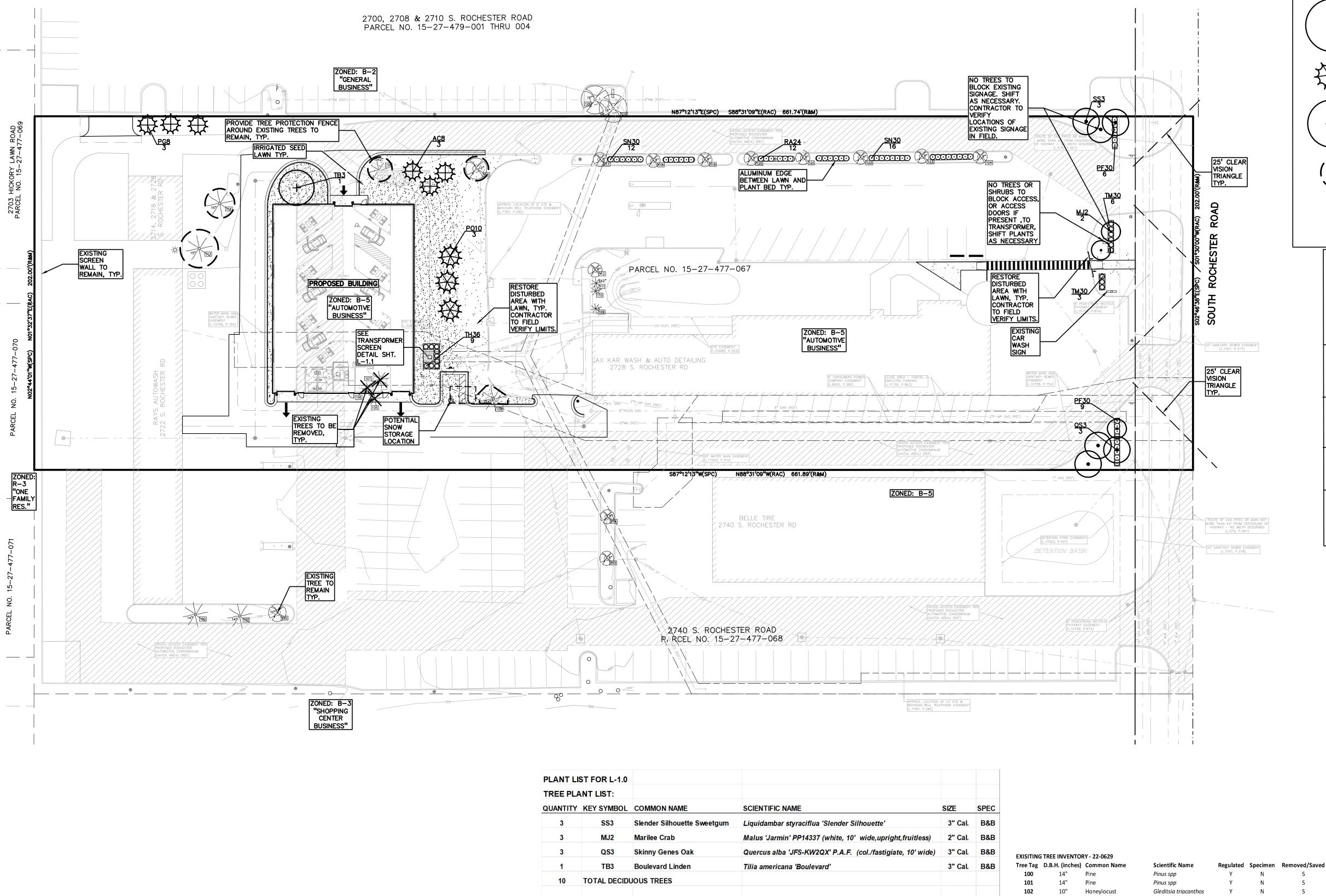
ORIGINAL ISSUE DATE:

**FIRE** PROTECTION PLAN

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	AJM
DES.	SWS
DRAWING NUMBER:	

NOT FOR CONSTRUCTION CITY FILE #22-023 SECTION #27





EVERGREEN TREE LIST:

SHRUB PLANT LIST:

73

QUANTITY KEY SYMBOL COMMON NAME

Concolor Fir

**Black Hills Spruce** 

Abbotswood Potentilla

**Gro Low Sumac** 

Hicks Yew

Neon Flash Spirea

Serbian Spruce

AC8

PG8

**TOTAL EVERGREEN TREES** 

QUANTITY KEY SYMBOL COMMON NAME

**TH36** 

**TM30** 

TOTAL SHRUBS

SCIENTIFIC NAME

Picea glauca 'Densata'

Abies concolor

Picea omorika

**SCIENTIFIC NAME** 

Potentilla fruticosa 'Abbotswood'

Rhus aromatica 'Gro-Low'

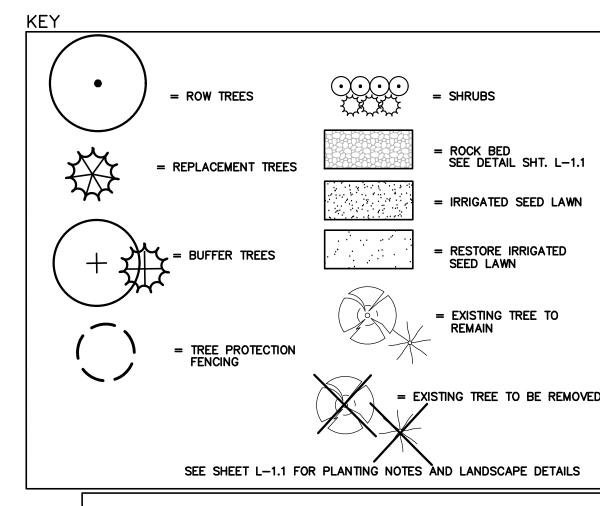
Taxus x media 'Hicksii'

Spiraea japonica 'Neon Flash'

Taxus x media 'Densiformis'

8' Ht.

Sycamore/London Plane Plantanus spp Picea spp SIZE SPEC Picea spp Picea spp Picea spp Thuja occidentalis Arborvitae Thuja occidentalis Thuja occidentalis Malus spp 113 Pine Pinus spp Pine Pinus spp 115 Picea spp Maple Acer spp Gleditsia triacanthos SIZE SPEC Gleditsia triacanthos 30" Ht. Cont. Honeylocust Gleditsia triacanthos Gleditsia triacanthos 24" Ht. Cont. Honeylocust Gleditsia triacanthos Gleditsia triacanthos 30" Ht. Cont. Honeylocust Gleditsia triacanthos 36" Ht. Cont. Gleditsia triacanthos Pine Pinus spp 30" Ht. Cont. Pine Pinus spp



# LANDSCAPE CALCULATIONS: B5 AUTOMOTIVE BUSINESS DISTRICT PER CITY OF ROCHESTER HILLS ZONING ORDINANCE

RIGHT OF WAY AT SOUTH ROCHESTER ROAD
REQUIRED: 1 DEC/35 LF FRONTAGE, 1 ORN/60 LF FRONTAGE

200 LF/35 = 6 DEC200 LF/60 = 3 ORN

PROVIDED: 6 DEC TREES, 3 ORN. AND SHRUB HEDGE

PROVIDED: 3, 10' EVG TREES PROVIDED

TREE REPLACEMENT:
ALL REGULATED TREES ARE TO BE REPLACED AT A ONE TO ONE BASIS. ALL
SPECIMEN TREES ARE TO BE REPLACED AT A MINIMUM OF 50% OF LOST DBH. REQUIRED: 3 REGULATED EVG TREES REMOVED = 3 - 10' EVG TREES REPLACED

NORTH BUFFER OF B-5 ADJ. TO B-2 DISTRICT:
REQUIRED: 1.5 DEC, 1 EVG, AND 4 SHRUBS PER 100 LF AND MINIMUM 6' WIDE YARD 661 LF/100 = 6.61 \*1.5 = 10 DEC, 7 EVG. AND 28 SHRUBS REQUIRED

PROVIDED: 1 PROPOSED DEC, 9 EXISTING DEC, 6 PROPOSED EVG, 1 EXISTING EVG. AND 40 PROPOSED SHRUBS IN NORTH PARKING ISLANDS PER CITY COMMENT

SOUTH BUFFER OF B-5 DISTRICT:
REQUIRED: B-5 ADJACENT TO B-5 NONE REQUIRED

PROVIDED: N/A

WEST BUFFER OF R-3 DISTRICT:
REQUIRED: 2.5 DEC, 1.5 ORN, 6 EVG, AND 10 SHRUBS PER 100 LF AND MINIMUM 8' WIDE YARD WITH SCREEN WALL

EXISTING SCREEN WALL BUFFER

IRRIGATION NOTES:
ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERING WILL ONLY OCCUR BETWEEN THE HOURS OF 12AM-5AM.

**PLANT REQUIREMENTS:** NO MORE THAN 20% OF A SINGLE PLANT SPECIES ON SITE. ALL DEC TREES SHOULD BE A MIN OF 3" CAL, ORN TREES SHOULD BE A MIN OF 2" CAL. EVG TREES A MIN OF 10' HT. OR 5' SPREAD. ALL SHRUBS SHOULD BE 30" MIN HEIGHT OR 24' IN SPREAD.

CITY OF ROCHESTER HILLS NOTES: TREE PLANTING RESTRICTIONS:

Prior approval is required to plant any tree or shrub on the public right-of-way. All trees and shrubs must be planted at least 10' from the edge of the public road. Shade trees and shrubs must be planted at least 5' from the edge of the public walkway. Evergreen and ornamental trees must be planted at least 10' from the edge of the <u>public walkway.</u> No trees or shrubs may be planted within the triangular area formed at the intersection of any street right—of—way lines at a distance along each line of 25' from their point of intersection. No trees or shrubs may be planted in the triangular area formed at the intersection of any driveway with a public walkway at a distance along each line of 15' from their point of intersection. <u>Trees</u> must be 3' off any sight line. All trees and shrubs must be planted at least 10' from any fire hydrant. Shade and evergreen trees must be at least 15' away from the nearest overhead wire. Trees must be planted a minimum of 5' from an underground utility, unless the city's Landscape Architect requires a greater distance. These

requirements are incorporated into the plan. **CLOSING COMMENT:** 

Prior to the release of the performance bond, the City of Rochester Hills Forestry Division needs to inspect all trees, existing or planted, to identify any that pose a hazard to the safe use of the public right-of-way. Forestry may require the developer to remove. and possibly replace, any such trees.

## PER CITY OF ROCHESTER HILLS MAINTENANCE AGREEMENT:

Section 138-12.109 Maintenance

The owner of the property shall be responsible for all maintenance of site landscaping, as follows:

A. Landscaping shall be kept in a neat, orderly and healthy growing condition, free from debris and refuse.

B. 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.

C. All dead, damaged, or diseased plant material shall be removed immediately and replaced within six (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 evergreen plants shall be between March 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.

D. The approved landscape plan shall be considered a permanent record and integral part of the Site Plan Approval. Unless otherwise approved in accordance 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

. 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 Department.

ORIGINAL ISSUE DATE: JULY 8, 2022

GROUP

t: 844.813.2949 www.peagroup.com

SCALE: 1" = 30'

JTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOI

THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR

DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CAUTION!!

CLIENT

PROJECT TITLE

HILLS

REVISIONS

**JAX KAR WASH** 28845 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034

**JAX KAR WASH** 

2718 SOUTH ROCHESTER ROAD

ROCHESTER HILLS, OAKLAND COUNTY, MI

REV. SITE PLAN SUBMITTAL 09.28.22

REV. SITE PLAN SUBMITTAL 11.16.22

REV. SITE PLAN SUBMITTAL 12.16.22

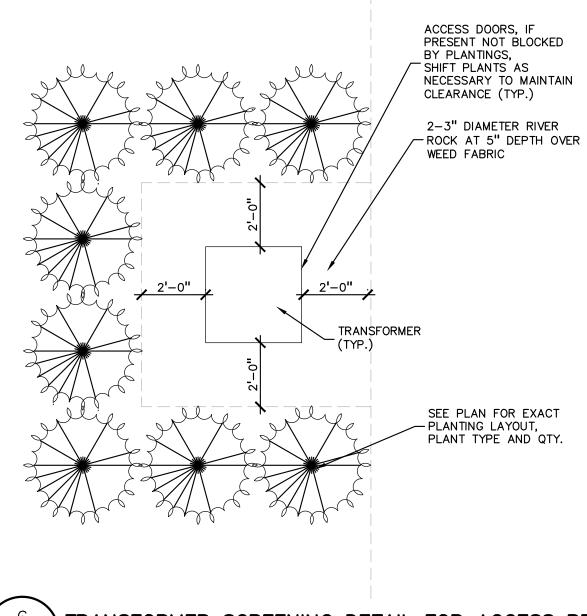
**ROCHESTER** 

DRAWING TITLE **PRELIMINARY** LANDSCAPE **PLAN** 

PEA JOB NO.	2022-0629
P.M.	LAA
DN.	JMS
DES.	JLE
DRAWING NUMBER	

### **GENERAL PLANTING NOTES:**

- 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.
- 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 COMMENCING.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
- 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 CROWNS.
- ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
- 3. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE
- . ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
- 1. 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 BUILDINGS.
- 14. ALL PLANTING BEDS SHALL RECEIVE 4" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
- 15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED
- 16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY
- 17. FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES
- 18. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.
- 19. TREES SHALL NOT CONFLICT/ BLOCK PROPOSED REGULATORY/ DIRECTION SIGNAGE, MONUMENT SIGNS, ADDRESS OR LIGHT POLES. SHIFT TREES AS NECESSARY



TRANSFORMER SCREENING DETAIL FOR ACCESS REF. SCALE: 1'' = 3'-0''

HEAVY DUTY ALUMINUM

EDGE – BLACK 2"–3" DIA. RIVER ROCK

GRAY FILTER FABRIC TO

CONCEALED WITH STONE

HEAVY DUTY ALUMINUM

SUBGRADE, COMPACT TO

(PER ASTM 0-1557)

- 95% MAX. DRY UNIT DENSITY

AT 5" DEPTH

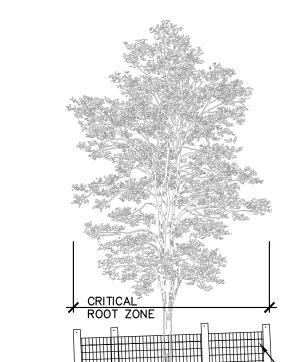
- BE COMPLETELY

EDGE - BLACK

SEE PLAN

RIVER ROCK EDGE DETAIL

SCALE:  $1 \frac{1}{2}$ " = 1'-0"



TREE PROTECTION DETAIL

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

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

TREE PROTECTION WILL BE ERECTED PRIOR TO

GRADE CHANGES MAY NOT OCCUR WITHIN THE DRIP LINE OF PROTECTED TREES

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

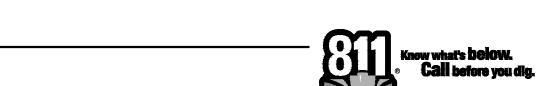
TREE MEASURED AT 4.5' ABOVE GROUND

WITH STEEL POSTS - 10' O.C.

- EXISTING SOIL

MINIMUM RADIUS OF 1' PER 1" DIAMETER OF THE

4'HIGH PROTECTIVE FENCING



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.

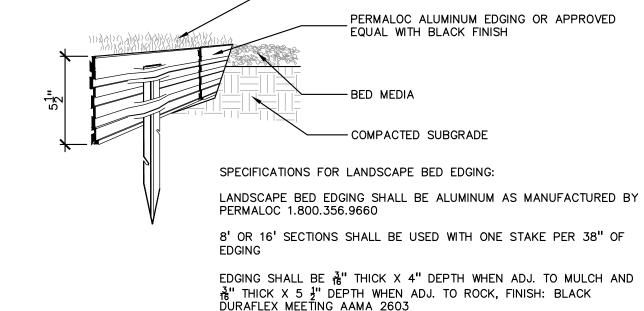
GROUP

t: 844.813.2949

www.peagroup.com

JANET L. EVANS LANDSCAPE

ARCHITECT



STAKE SHALL SECURELY ENGAGE EDGING AND SHALL BE ENTIRELY BELOW TOP SURFACE OF EDGING

EDGING SHALL HAVE A MINIMUM OF 2" OF INTERLOCKING OVERLAP BETWEEN SECTIONS

INSTALL AS PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF EDGING  $\frac{1}{4}$ " ABOVE COMPACTED FINISH GRADE. FINISH GRADE TO BE COMPACTED ON BOTH SIDES OF EDGING TO MAINTAIN STABILITY

REVISIONS

CLIENT

PROJECT TITLE JAX KAR WASH **ROCHESTER** 

**JAX KAR WASH** 

28845 TELEGRAPH ROAD

SOUTHFIELD, MICHIGAN 48034

2718 SOUTH ROCHESTER ROAD ROCHESTER HILLS, OAKLAND COUNTY, MI

REV. SITE PLAN SUBMITTAL 09.28.22

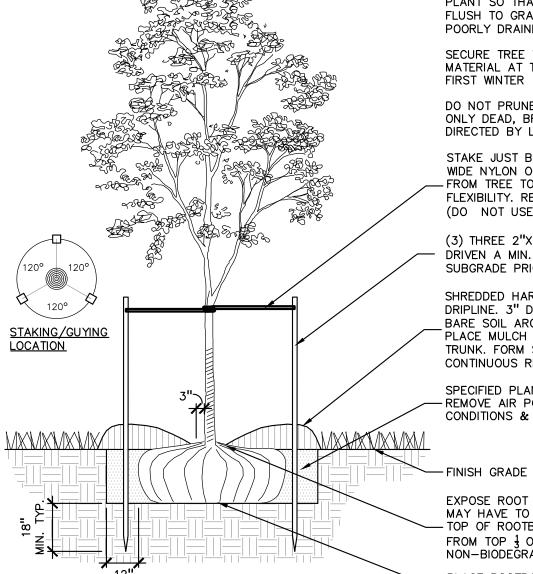
REV. SITE PLAN SUBMITTAL 11.16.22

REV. SITE PLAN SUBMITTAL 12.16.22

ORIGINAL ISSUE DATE:

JULY 8, 2022

DRAWING TITLE



<u>ALUMINUM EDGE DETAIL</u>

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

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

PLANT SO THAT TOP OF ROOT BALL IS FLUSH TO GRADE OR 1-2" HIGHER IF IN POORLY DRAINED SOILS SECURE TREE WRAP WITH BIODEGRADABLE MATERIAL AT TOP & BOTTOM, REMOVE AFTER

DO NOT PRUNE TERMINAL LEADER PRUNE ONLY DEAD, BROKEN BRANCHES AS DIRECTED BY LANDSCAPE ARCHITECT

STAKE JUST BELOW BRANCHES WITH 2"-3" WIDE NYLON OR PLASTIC STRAPS. CONNECT - FROM TREE TO STAKE AND ALLOW FOR FLEXIBILITY. REMOVE AFTER (1) ONE YEAR. (DO NOT USE WIRE & HOSE)

(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

-FINISH GRADE

EXPOSE ROOT FLARE OF TREE. CONTRACTOR MAY HAVE TO REMOVE EXCESS SOIL FROM - TOP OF ROOTBALL. REMOVE ALL BURLAP FROM TOP 1 OF ROOTBALL. DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE PLACE ROOTBALL ON UNEXCAVATED OR

DECIDUOUS TREE PLANTING DETAIL NOT FOR CONSTRUCTION **CITY FILE #22-023 SECTION #27** 

PEA JOB NO. 2022-0629 P.M. LAA DN. AEH DES. JLE DRAWING NUMBER:

**LANDSCAPE** 

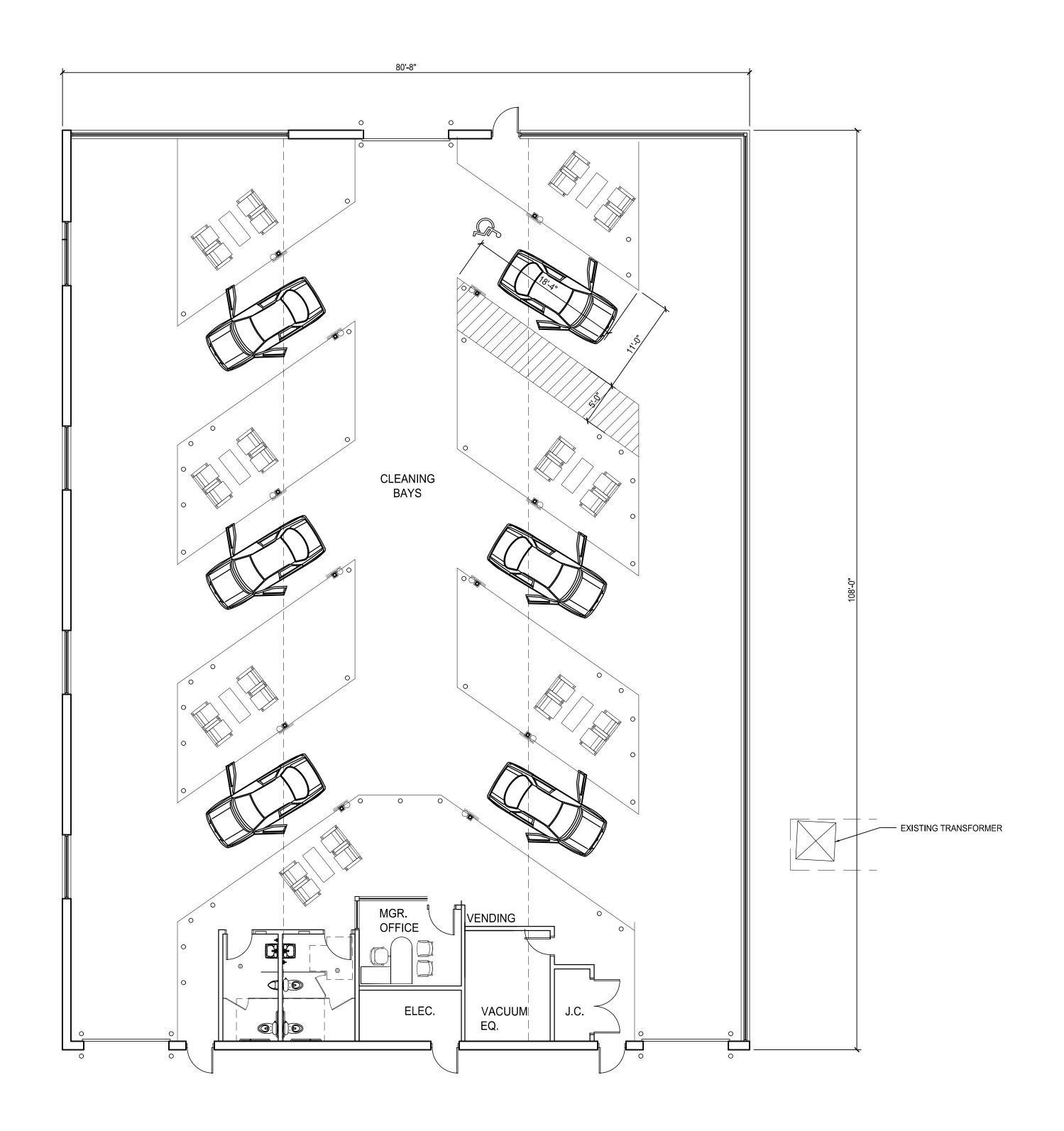
**DETAILS** 

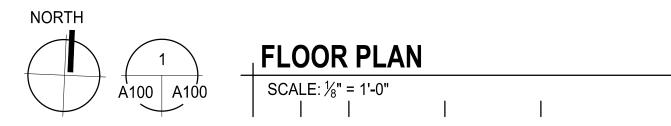
PLANT SO THAT TOP OF ROOT BALL IS FLUSH TO GRADE OR 1-2" HIGHER IF IN POORLY DRAINED SOILS DO NOT COVER TOP OF ROOTBALL WITH SOIL FORM SAUCER WITH 4" HIGH CONTINUOUS RIM SHREDDED HARDWOOD BARK MULCH 3" \_DEEP AND LEAVE 3" CIRCLE OF BARE SOIL AROUND TRUNK. DO NOT PLACE MULCH IN CONTACT WITH TRUNK - FINISH GRADE SPECIFIED PLANTING MIX. WATER AND TAMP TO REMOVE AIR POCKETS REMOVE ALL BURLAP FROM TOP 1 OF ROOTBALL, DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE VARIES ON CONTAINER OR BALL SIZE PLACE ROOTBALL ON UNEXCAVATED OR

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

# ROCHESTER HILLS, MI COMMERCIAL SITE PLAN REVIEW CHECKLIST ANALYSIS

Current	Building Code: 2015 Michigan Building Code
Applicable	Plumbing Code: 2018 Michigan Plumbing Code
Codes	Electrical Code: 2017 National Electric Code
	Mechanical Code: 2015 Michigan Mechanical Code
	Energy Code: 2015 Michigan Energy Conservation Code
	Accessibility Code: ICCI A117.1-2009
MBC Section 304	Business Group B, Car Wash (similar use)
Table 602	Fire Separation Distances 10≤X<30 and X≥30 require 0 (zero) hour rating for exterior walls.
MBC Section 602.5	VB (5B). Proposed building will consist of CMU walls with steel joists roof structure
MBC Table	Type VB, Non-sprinklered, B use = 40' max height allowable.
504.3	Proposed height = 28'
	28'<40' therefore the building complies with this section
MBC Table	Type VB, Non-sprinklered, B use = 2 story maximum.
504.4	Proposed building is one (1) story
	Therefore, building complies with this section
MBC Table	Type VB, Non-sprinklered, B use = 9,000 SF maximum allowable size.
506.2	Proposed building is 8,712 SF
	8,712 SF<9,000 sf therefore the building complies with this section
MBC Section 903	Building will not be equipped with an Automatic Sprinkler System.







FLORIDA

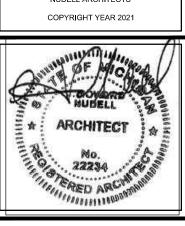
1807 Edgewater Drive
Orlando, Florida 32804
t 407 930 2526

MICHIGAN
30403 West 13 Mile Road
Farmington Hills, Michigan 48334
t 248 324 8800 f 248 324 0661

NOTICE

THIS ARCHITECTURAL AND/OR ENGINEERING DRAWING IS GIVEN IN CONFIDENCE. NO USE, IN WHOLE OR PART, MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT OF NUDELL ARCHITECTS. ALL RIGHTS ARE HEREBY SPECIFICALLY RESERVED.

NUDELL ARCHITECTS



project title

JAX ROCHESTER HILLS

ROCHESTER HILLS, MI

FLOOR PLAN

project number

DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY

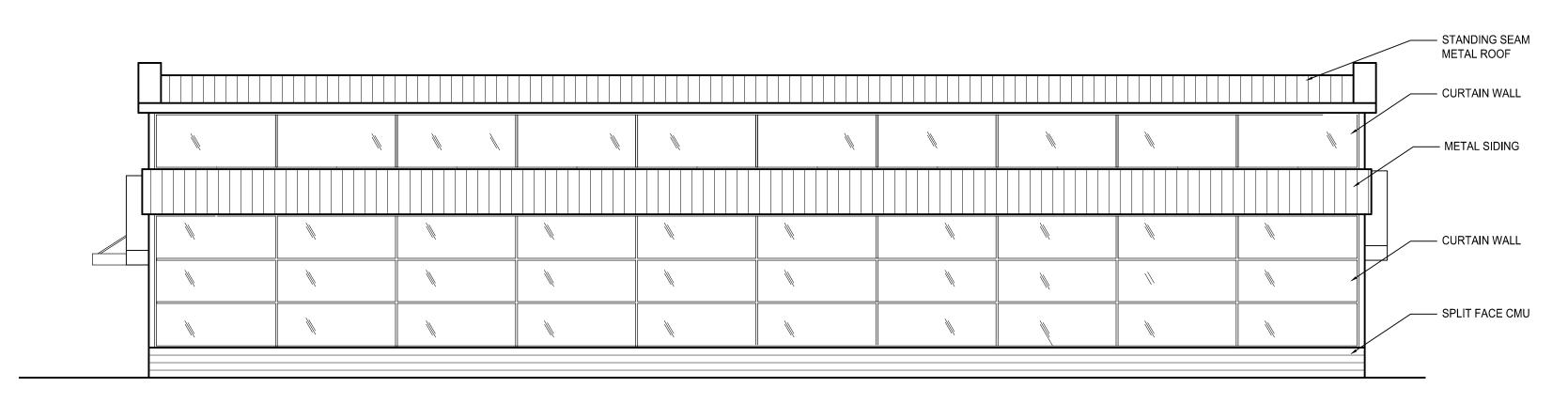
2021-063

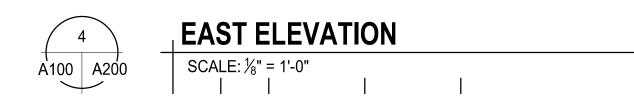
drawn AJA checked BJS approved JHN

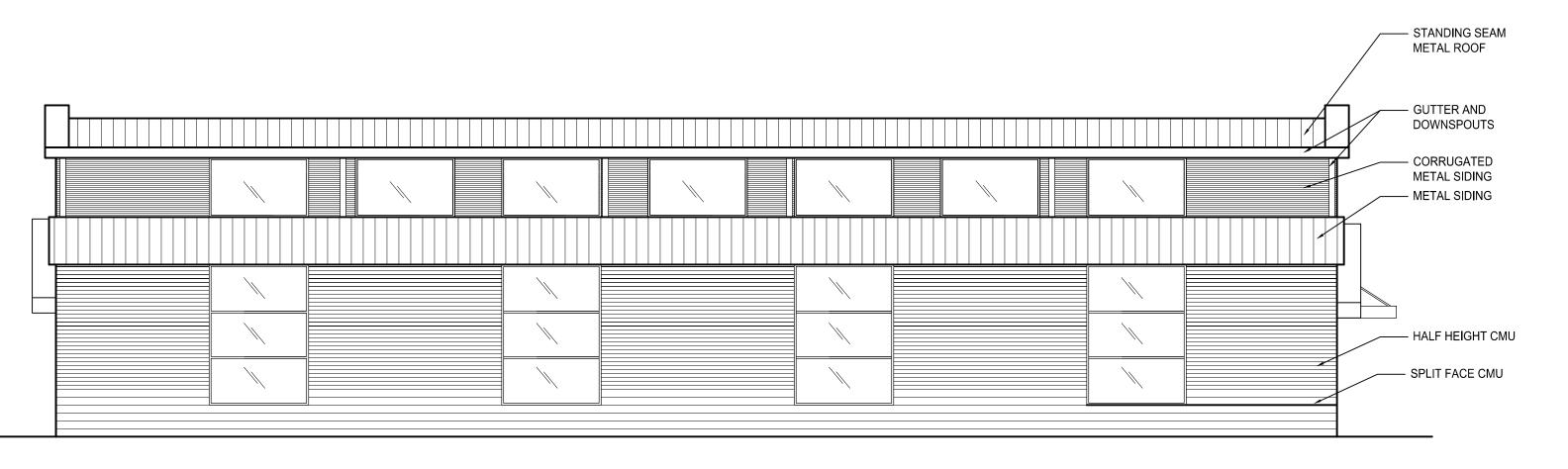
issued for date
REVISED SPA 12.02.2022

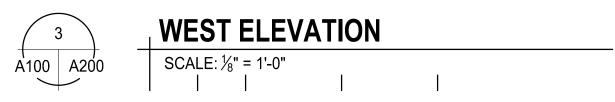
\_\_\_\_sheet

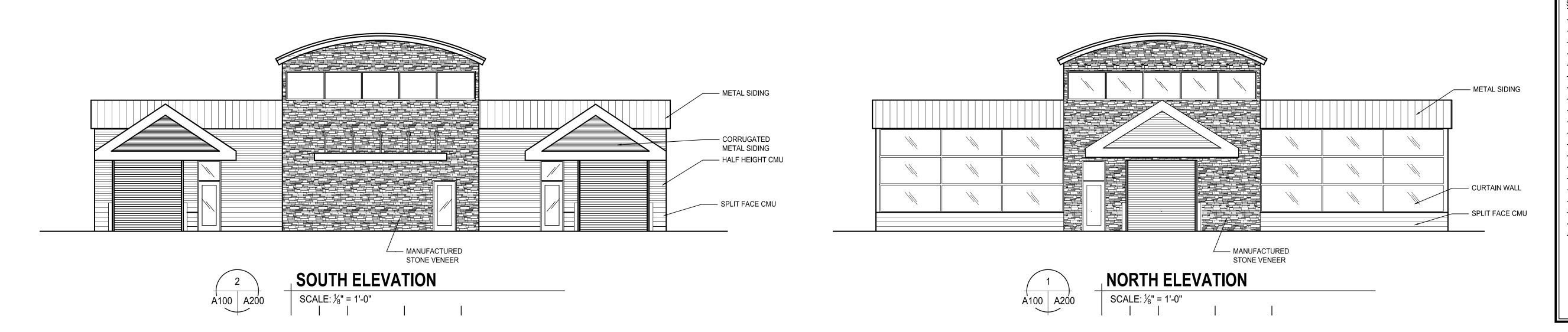
A100











NUDELL ARCHITECTS

FLORIDA

1807 Edgewater Drive
Orlando, Florida 32804
t 407 930 2526

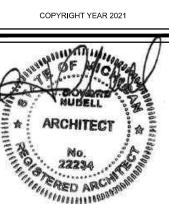
MICHIGAN

30403 West 13 Mile Road
Farmington Hills, Michigan 48334
t 248 324 8800 f 248 324 0661

NOTICE

THIS ARCHITECTURAL AND/OR ENGINEERING DRAWING IS GIVEN IN CONFIDENCE. NO USE, IN WHOLE OR PART, MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT OF NUDELL ARCHITECTS. ALL RIGHTS ARE HEREBY SPECIFICALLY RESERVED.

NUDELL ARCHITECTS



project title

JAX ROCHESTER HILLS

ROCHESTER HILLS, MI

sheet title

ELEVATIONS

DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY

project number 2021-063

drawn AJA checked BJS approved JHA

issued for date
SPA 07.06.2022

sheet

**A200** 

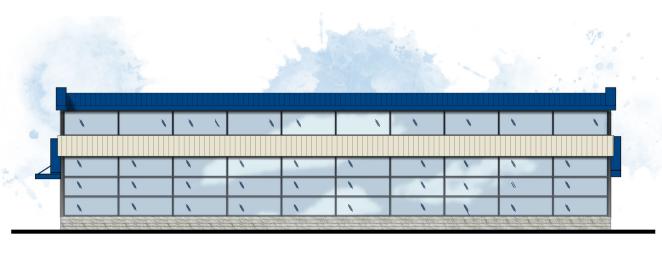






SOUTH ELEVATION

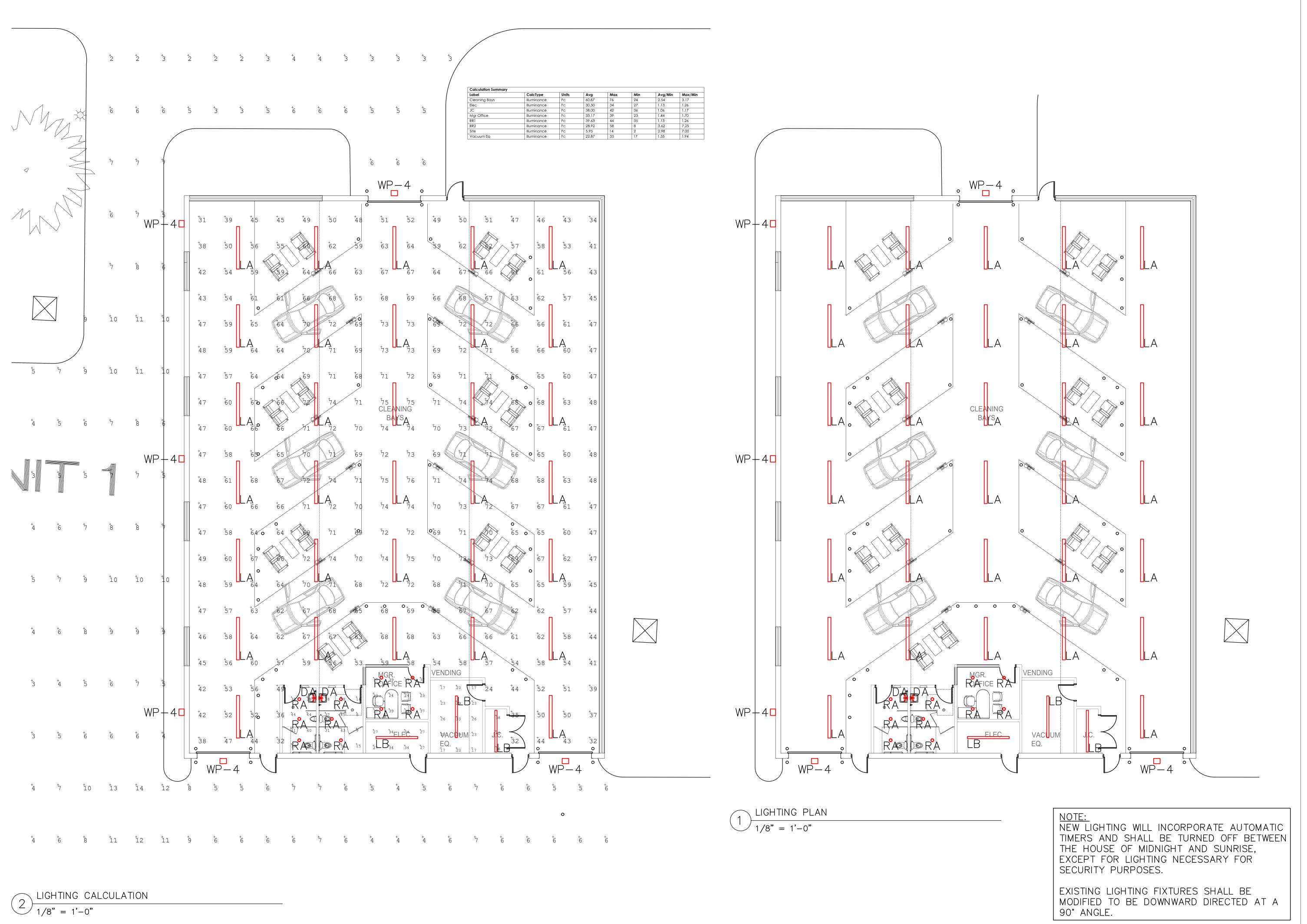




EAST ELEVATION

JAX KAR WASH - ROCHESTER HILLS, MI

**COLORED ELEVATIONS** 





No. Issue

1. INITIAL DESIGN 06.30

JAX CAR WASH ROCHESTER HILLS ROCHESTER, MI

L PLANS AND SPECIFICATIONS ARE THE PROPERTY OF MMERCIAL LIGHTING IND. DO NOT SCALE DRAWINGS LL MEASUREMENTS MUST BE CHECKED ON SITE B HE CONTRACTORS AND ANY DISCREPANCIES BROUGH OTHE ATTENTION OF THE DESIGNER OR ARCHITEC

LIGHTING PLAN & CALCULATION

Scale
AS SHOWN
O6.30.2
Drawn By
Checked
K.D.
Ioh No

LD100

Luminaire Schedule (Issue: November 16th, 2022)

#### Jax Car Wash - Rochester Hills, MI

#### Contact Farren Halcovich with Commercial Lighting Industries, 800-755-0155, Farren@Commercial-Lighting.net for pricing

Note: If Lighting is owner supplied, the subcontractor on site is responsible for receiving the material, notifying of any damages within 72 hours and signing for missing items as Incomplete if they did not arrive.

Fixture	Description	Dimming	Product	Lamps, CCT, Lumen,	Input	Fixture	Mounting, Finishes, Remarks &
Туре		Interface	Registration ID	Optics, CRI	Voltage	Wattage	Other Notes
	ARCHITECTURAL FIXTURE TYPES						
DA	Vanity light	ELV	CLI-00JCWDA	Asumed Integral LED, 3000K, 1500Lm, 90CRI	UNI-VAC	20	Surface Mounted Above Vanity Mirror. Fixture TBD.
LA	Vaportight	0-10v	CLI-00JCWLA	Integral LED, 4000K, 10000Lm, 85CRI	UNI-VAC	72	Mounting TBD. White finish. Suitable for Wet Locations.
LB	Linear Fixture	0-10v	CLI-00JCWLB	Integral LED, 4000K, 6000Lm, 85CRI	UNI-VAC	48	Pendant Mounted @ 10'-0" AFF.
RA	Downlight	0-10v	CLI-00JCWRA	Integral LED, 4000K, 900Lm, 70°, 80CRI	120-VAC	10	Recessed. Clear Reflector, Self Flanged.
WP-4	Wall Pack, Type 4 Distribution	TBD	CLI-00JCWWP4	Integral LED, 4000K, 14979Lm, Type 4 Distribution, 70CRI	UNI-VAC	110	Building Mounted @ 16'-0" AFG. Finish TBD.
		NOT BE CONSID		AND VALUE ENGINEERING WILL SSED WRITTEN APPROVAL FROM ER. NO EXCEPTIONS.			

CNTRL Controls Package - TBD

#### Notes, Exceptions, Clarifications

<u>PURCHASING</u>: All Lighting is supplied by \_\_\_\_. Consult with the above listed Mfgs for pricing at pre-established customer pricing. The complete package is approved and available at established discounted pricing from Commercial Lighting Industries, 81161 Indio Blvd, Indio, CA 92201, 800-755-0155. Contact \_\_\_\_\_, \_\_\_@Commercial-Lighting.net, for purchase order placement, and coordinating delivery of the package.

LTG SPEC VERIFICATION: Purchaser assumes responsibility for, and must verify with CLI the following prior to purchasing: Voltage, specific mounting details (including recessed downlight hanger bars if non-standard from the Mfg), NYC or Chicago codes, IC Rating, wind/gust pole factors, integral luminaire wiring gauge, custom reflector reflectances, Kelvin temperature, distribution, emergency use and dimming method. The above catalog #s may not be completely solidified at time of drawing issuance for construction.

<u>PHOTOMETRIC COMPLIANCE</u>: A complete Photometric drawing for this project as currently drawn and specified, has been submitted to approving authorities a applicable. Any substitutions or changes nullify the report and compliance and are strictly forbid without writtent approval from the owner, architect or lighting designer - <u>NO SUBSTITUTIONS</u>

ARE ALLOWED.

ENERGY COMPLIANCE: The purchasing party is responsible for solidifying the lighting package in compliance with the State Energy Code, both with respect to Lighting Power Density (LPD) and the use of mandated controls (dimmers, photocells, occupancy sensors, etc.). Consult with Istvan Derzsi, Sr. Lighting Designer of Commercial Lighting Industries 323-905-2220 to ensure compliance prior to ordering.

CONTROLS: The control system being implemented has been designed per meetings with the owner and architect, determining the complete requirements of the control system, and engineered to the exact specifications of the luminaires in this schedule, and in compliance with the State Energy Code. Any changes to the above would affect the Controls engineering and thus would require re-submission to all parties: Owner, Architect, Lighting Designer, Controls Manufacturer and the State Energy Compliance Department.

<u>DIMMING</u>: The method of dimming each fixture type (generally either Non-Dim, ELV/MLV, 0-10v or DALI/Ecosystem) may not have been known at the time the of preliminary specifications submission. Some luminaires may be available with different dimming than is indicated - see the catalog cuts. When requesting a quotation, and ordering, the purchaser must verify the dimming method desired (to match the wiring and type of dimming that will get installed) of each type and request the quotation accordingly. Once product is on site, the dimming installed will have to be compatible with the luminaires. Note: the default dimming specifications are: For CA, US - all 0-10V wherever possible if using central Control System - same. Otherwise, any luminaire that is not 0-10V or combo ELV/120V, is specified as ELV because it cannot be assumed that LV wiring will be run.

<u>WIRING</u>: 120V Leading Edge dimmers (old technology for mostly incandescent fixtures) aka Triac/120V dimming, and 120V Trailing Edge dimmers aka ELV dimming (utilizing standard 3 wire White/Black/Green) are not interchangeable with 0-10V dimming which has two additional low voltage wires (Grey/Violet) for analog control signal, using one volt increments from 0 to 10, thus dimming the LED fixtures down to 10% or even 1%. Each fixture much be ordered with the appropriate 120V or the 0-10V driver depending on which will dim it, they are NOT interchangeable. Do Not assume a fixture with 0-10V is "standard" and will thus dim correctly if only 120V dimming is available.

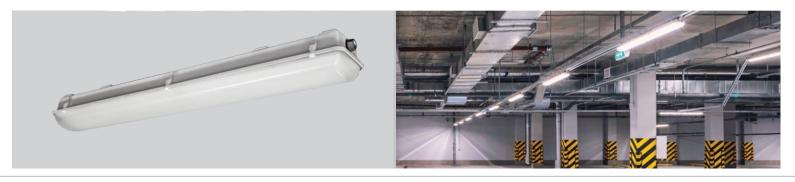
<u>VOLTAGE</u>: Voltage to be verified. See Volt column: DV means Dual-Volt - fixtures come compatible for either 120 or 277V. MV means Multi-Volt - fixtures come compatible for either 120/208/240/277/347 volts. TBD means the fixture comes in 120 or 277 but not both and thus the voltage for these fixtures must be verified prior to ordering.

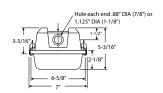


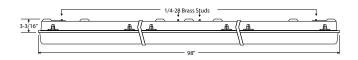
# Job Name: Jax Car Wash - Rochester Hills, MI

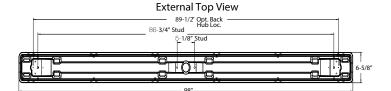
# Catalog #: CLI-00JCWLA











NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
24000	22352	166W
20000	20230	140W
18000	18050	120W
14000	14010	98W
10000	10010	78W
8000	8299	65W
6000	6186	46W
4000	3921	27W

#### **FEATURES**

The OW11 is an IP67 enclosed-and-gasketed linear vapor tight suitable for high-temperature, high-impact, wet environments. Durable, snap-in construction with easy-to-access, upgradeable wiring compartment and a lightweight design permits easy installation. Designed for surface or suspended mounting. DLC Premium-qualified. Typical applications include food processing, cold storage, parking garages, car washes, covered canopies, pedestrian tunnels, and where harsh conditions are present.

LUMENS	4000, 6000, 8000, 10000, 14000, 18000, 20000, 24000
сст	30K, 35K, 40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
LENGTH	8'
MOUNTING	Suspended or Surface
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output
AMBIENT TEMPERATURE	Operating Temperature: -20°C to 55°C
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%













#### CONSTRUCTION

#### Housing

- Fiberglass reinforced polyester (FRP) body is self-extinguishing (ASTM) D635-74). FRP is lightweight but extremely durable and combats harsh temperatures, mildew, chemical-corrosion, and high-impact environments.
- · Housings built with one watertight conduit entry point at either end.
- · NSF-listed components and enclosure.

#### **Enclosed-and-Gasketed**

- · One-piece, continuous poured-in-place gasket and flanged door provide watertight seal.
- · Molded latch pockets are compatible with standard and tamper-proof latches in stainless steel and polycarbonate.
- · Standard white polycarbonate cam latches seal enclosure.
- · Optional stainless-steel latches, stainless steel tamper-proof latches, and polycarbonate tamper-proof latches.

#### **Diffuser and Reflector**

- · Injection-molded acrylic diffuser.
- Reflectors painted with 93% reflective white coat. Specular reflector can be ordered as an option.

Thermal Management: LED board is attached to aluminum reflector, keeping engines cool and increasing LED life.

#### **MAINTENANCE**

LED engines and driver can be accessed from the bottom by removing diffuser and detaching LED tray. LED engines are removable and upgradable even after fixture installation. Spacers are located between driver and LED board. Rated for direct water contact per standards IP65/IP67, ensuring fixture can be safely washed, wiped and hosed down.

Injection-molded acrylic lens protects against impact, prevents vellowing, and minimizes glare. A contoured molded linear-ribbed lens diffuses the light for bright, smooth illumination. Internal crepe lens allows for an easy-to-maintain smooth surface.

#### **Applications**

Food processing, cold storage, parking garages, car washes, covered canopies, pedestrian tunnels.

- · NSF International Splash Zone 2: Wet or damp process areas; Highpressure purging and/or decontamination used in the process; Areas using high-pressure hose washdown.
- IP67 per IEC 60529 standard: Totally protected against dust/sand impact and complete immersion of up to 1 meter in water.
- IP65 per IEC 60529 standard: Totally protected against dust/sand impact

and protected against jets of water from a nozzle of 6.3mm.

• IP65 and IP67 rated when ceiling, surface, and pendant mounted. IP65/67 ratings do not apply when wall mounted.

#### Mounting

- · Suitable for suspension by chain, cable, pendant and surface mounting.
- · Shipped standard with two stainless steel mounting brackets for surface, stem, suspended chain, aircraft cable, and other mounting options.
- · Cable, chain, and related hardware for suspended mounting must be ordered as accessories.

#### **PERFORMANCE**

The OW1IP-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OW1IP-LED are rated at 85+ CRI and available in multiple CCTs: 3000K, 3500K, 4000K and 5000K. All LEDs and LED fixtures are rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a s to achieve consistent color from fixture to fixture.

#### THERMAL MANAGEMENT

Our advanced thermal management system allows the light output of the LED engines to be maintained at 70% of initial lumens at 50,000 hours of operation.

#### **DIMMING & DRIVER INFORMATION**

DIM10 - Flicker Free 1% or 5% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277, 347, or 480V.

#### **ELECTRICAL**

Powered by constant-current power LED drivers rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Optional 347V and 480V.

#### **OPTIONS**

Fixtures can be shipped pre-installed with daylight harvesting controls and occupancy sensors. Consult factory for details. Optional emergency battery back-up comes pre-installed on fixture and emergency push button is installed on fixture. Generator transfer device available.

#### WARRANTY

Five-year limited warranty on parts and components (labor not included).

cULus

NSF International - Splash Zone 2 IP65 per IEC 60529 standard IP67 per IEC 60529 standard **DLC Premium** 

Made in America Compliance

motion sensor with bluetooth control option

FSP-311-B-D - 0-10V continuous dimming PIR photo/

#### Example: 8-0W1IP-LED-4000L-DIM10-MV0LT-30K-85 8 OW1IP **LED** DISTRIBUTION FIXTURE SIZE DIMMING CRI **EMERGENCY** SERIES **TYPE** LUMENS VOLTAGE CCT Blank - General OW1IP 4000L -**DIM10** - 0-10V Dimmina MVOLT 30K O-EMG-LED-10W 8-8 4000 lumens ND- Narrow Distribution LFD Vapor 347\* 35K 6000L -6000 lumens MD- Medium Distribution 480 40K Tiaht 8000L -8000 lumens WD- Wide Ratwing Distribution 50K AD- Aisle Distribution 14000 lumens 14000L -18000 lumens 18000L -20000L -20000 lumens OTHER OPTIONS SUSPENDED MOUNTING 24000L - 24000 lumens **OW1IPFL** - Injection-molded acrylic Lens (Standard) GSS - Gripple Suspension System OW1IPSR Specular Reflector VH - V Hook INMS Internal Motion Sensor with Photo Sensor(FSP-211) CH - IHeavy-duty Chain Motion Sensor with Photocell YTAC - 10' Y-Toggle Aircraft Cable MSPH WLMS Wet Location Motion Sensor Stainless Steel Latches SSL **SSLTP** Stainless Steel Latches w/ Tamper Proof Screws Poly. Latches w/ Tamper Proof Screws

**PCLTP** 

USA

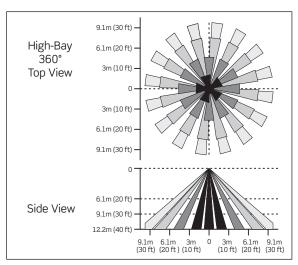
# **Passive Infrared Motion Sensor with Photocell**

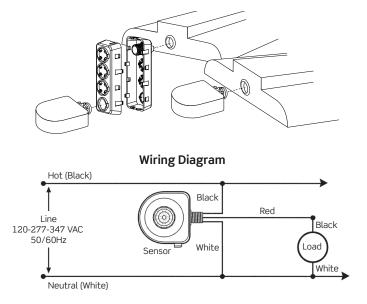


MSPH provides the most labor savings available with quick snap, 21" wire leads, and no power required to configure.

Passive Infrared Technology is used to sense occupancy by comparing the infrared energy from an object in motion and the background space. PIR sensors minimize false ON from background environmental conditions such as air movement to provide reliable detection of line-of-sight motion.

#### **FIELD-OF-VIEW**

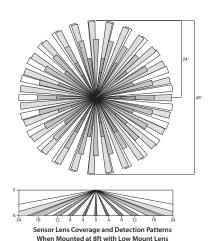


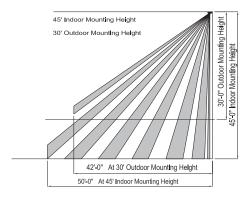


# **Wet Location Motion Sensor (IP65)**

The HB3x0W occupancy sensor is designed to mount to a light fixture and control one load in the fixture. The sensor can be wired to control all ballasts in the fixture, or to control half of the ballasts to provide high/low lighting control. When motion is detected within the sensor's coverage area, the relay in the sensor closes, and lighting loads turn on automatically. When motion is no longer detected for the duration of the time delay setting, the relay opens and the lighting load is turned off. The sensitivity and time delay settings are factory preset at 100% and 15 minutes, respectively, which are suitable for most high bay applications. However, the values can be easily adjusted for specific applications using the DIP switches on the unit. Refer to the Installation Instructions for changing factory preset values, and for important start up instructions.









Job Name: Jax Car Wash - Rochester Hills, MI

Catalog #: CLI-00JCWLB

Type: LB









NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
20000	18986	152 W
14000	14351	114 W
8000	9280	74 W
6000	5965	48 W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

#### **FEATURES**

The Architectural LED Linear combines a slim profile with clean lines, making it an ideal choice for library stacks or narrow aisles. The flexibility of the luminaire allows for continuous, uniform and glare-free illumination. Available in single pendant or continuous mounting for a seamless connection from luminaire to luminaire, with adjustable mounting heights. This distinct luminaire is a perfect solution for educational, healthcare, office, commercial and retail spaces.

LUMENS	6000, 8000, 14000, 20000
сст	30K, 35K, 40K, 50K
CRI	85+ (standard), 90+
COLOR QUALITY	3 Step MacAdam Ellipse
LENGTH	2', 4', 8'
MOUNTING	Suspended or Surface
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUT2W, DIMST, ELD010.1, ELD0DMX.1, DALI.1
EMERGENCY	10W - Up to 1000L output
LIFETIME	L70 at 167,000 Hours
OPERATING TEMPERATURE	-20° C to 50°C ambient temperature
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21















#### **OPTICS & PERFORMANCE**

The optical system delivers high efficiency LED light that passes through a high quality, frosted acrylic lens for optimal performance, creating a glarefree and even distribution.

#### CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, painted with a high-gloss baked white enamel finish, with a frosted extruded lens that delivers highly efficient illumination.

#### **CRM INSTALLATION**

For continuous row mounting, the first luminaire in the row will always be the power supply feed. After plugging in the male and female harnesses, which are supplied with each luminaire, they will easily slide together, then secured with two screws from opposite directions in the connecting brackets.

#### **DRIVER ELECTRICAL INFORMATION**

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Male and female 18-gauge 6 wire plug connectors are included with every luminaire to allow for simple hassle-free continuous wiring. Each luminaire must be installed male to female.

#### **OPTIONS**

Luminaires can be shipped pre-installed with daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control solutions.

#### **DIMMING & DRIVER INFORMATION**

DIM10 - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.

LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED driver (120V forward phase only).

LUTH - Lutron LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.

ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.

DALI - DALI DT6, DT8 dimming down to 1%.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%.

Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.

**DIMST** - Step Dimming

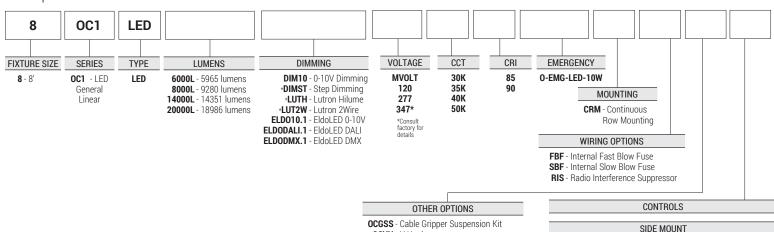
#### **WARRANTY**

Five-year warranty for parts and components. (Labor not included)

c-UL-us - Listed for Feed Through Wiring. Listed for DLC, California Title 24 compliant. c-UL us Listed for Damp location

Product not allowed to be in direct contact with water, sprinkler or rain

#### Example: 8-OC1-LED-6000L-DIM10-MVOLT-40K-85



OCVH - V Hook

WG - WireGuard

USA - Made in America Compliance

sos - Power cord with 5 conductors for 0-10v dimming fixtures

**S06** - Power cord with 6 conductions for 0-10V dimming and with emergency

OSFHU-LTW - ON/OFF Line Voltage

Occupancy Sensor with 0-10V Dimming FSP-311-B-D - 0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.

#### INTEGRATEDED

OSM3D-V1W - Line Voltage Microwave Sensor OSM3D-DDW-20 - HF Microwave Sensor 0-10 20% Dim OSM3D-DDW-50 - HF Microwave Sensor 0-10 50% Dim

FS-205 - Low Voltage Pir Fixture Integrateded Occupancy Sensor

FD-301 - Low VolatgeDaylight Dimming Photosensor

FS-PPV2 - Fixture Sensor Power Pack