PRELIMINARY SITE PLANS FOR

ROCHESTER RETAIL

N.E.C. OF ROCHESTER ROAD AND AVON ROAD

CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN





NOTE:
A CONDITIONAL USE PERMIT IS
REQUIRED FOR THE DRIVE—THROUGH

Refer to Section 138-1.203 of the Zoning Ordinance for conditional use signage requirements. Signs advertising a conditional use is proposed for the property must be posted 15 days prior to the public hearing.

DEVELOPER:

ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STREET, SUITE #205 BIRMINGHAM, MI, 48009 CONTACT: DORAID MARKUS PHONE: (248) 892-2222 EMAIL: DMARKUS@MARKUSLLC.COM

ARCHITECT:

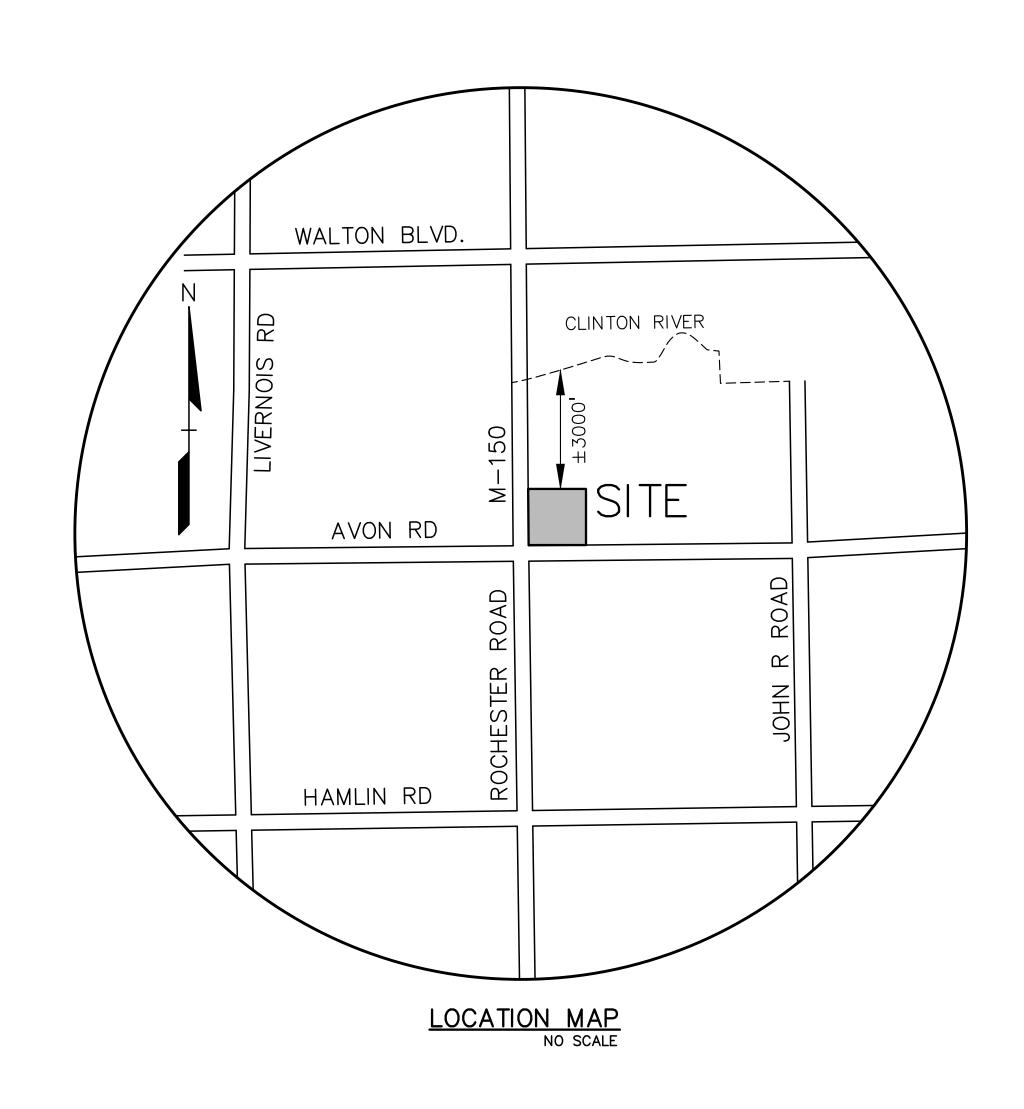
ROGVOY ARCHITECTS
32500 TELEGRAPH ROAD, SUITE #250
BINGHAM FARMS, MI, 48025
CONTACT: MARK DRANE
PHONE: (248) 540-7700
FAX: (248) 540-2710

CIVIL ENGINEER:

PEA GROUP
2430 ROCHESTER COURT, SUITE 100
TROY, MI, 48083
CONTACT: RACHEL L. SMITH, PE
PHONE: (248) 689-9090 EXT. 1165
FAX: (248) 689-1044
EMAIL: RACHEL.SMITH@PEAGROUP.COM

LANDSCAPE ARCHITECT:

PEA GROUP
7927 NEMCO WAY, SUITE 115
BRIGHTON, MI 48116
CONTACT: JEFF SMITH, R.L.A., LEED AP
PHONE: (517) 546-8583
FAX: (517) 546-8973
EMAIL: JSMITH@PEAGROUP.COM



S	Site Plan Review		
Reviewed f	or compliance to the City Ord Building and Fire Codes	dinance,	
Department	Reviewer	Approved	
Planning	Kristen Kapelanski 248-841-2772 KapelanskiK@RochesterHills.org	Yes	
Building	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org	Yes	C. McEwen for M. Artinian
Engineering	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes	
Nat. Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	Yes	
Fire	Lt. Ann Echols 248-841-2701 EcholsA@RochesterHills.org	Yes	
	City of Rochester Hills hing & Economic Developme and mark-ups noted throughout the plan set addressed prior to final approval.		



CAUTION!!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUN 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 ELEVATION PRIOR TO THE START OF CONSTRUCTION.

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C-9.1	NOTES AND DETAILS
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C - 9.3	DETAILS
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A-3 CONCEPTUAL BUILDING ELEVATIONS

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SHEET 2 OF 2 LED SITE LAYOUT

CLIENT

ROCHESTER AVON PARTNERS, LLC
251 EAST MERRILL STREET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

PROJECT TITLE

REVISIONS

RETAIL REDEVELOPMENT N.E.C. ROCHESTER ROAD & AVON ROAD CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MI

CITY COMMENTS	6/16/21
CITY COMMENTS	7/21/21

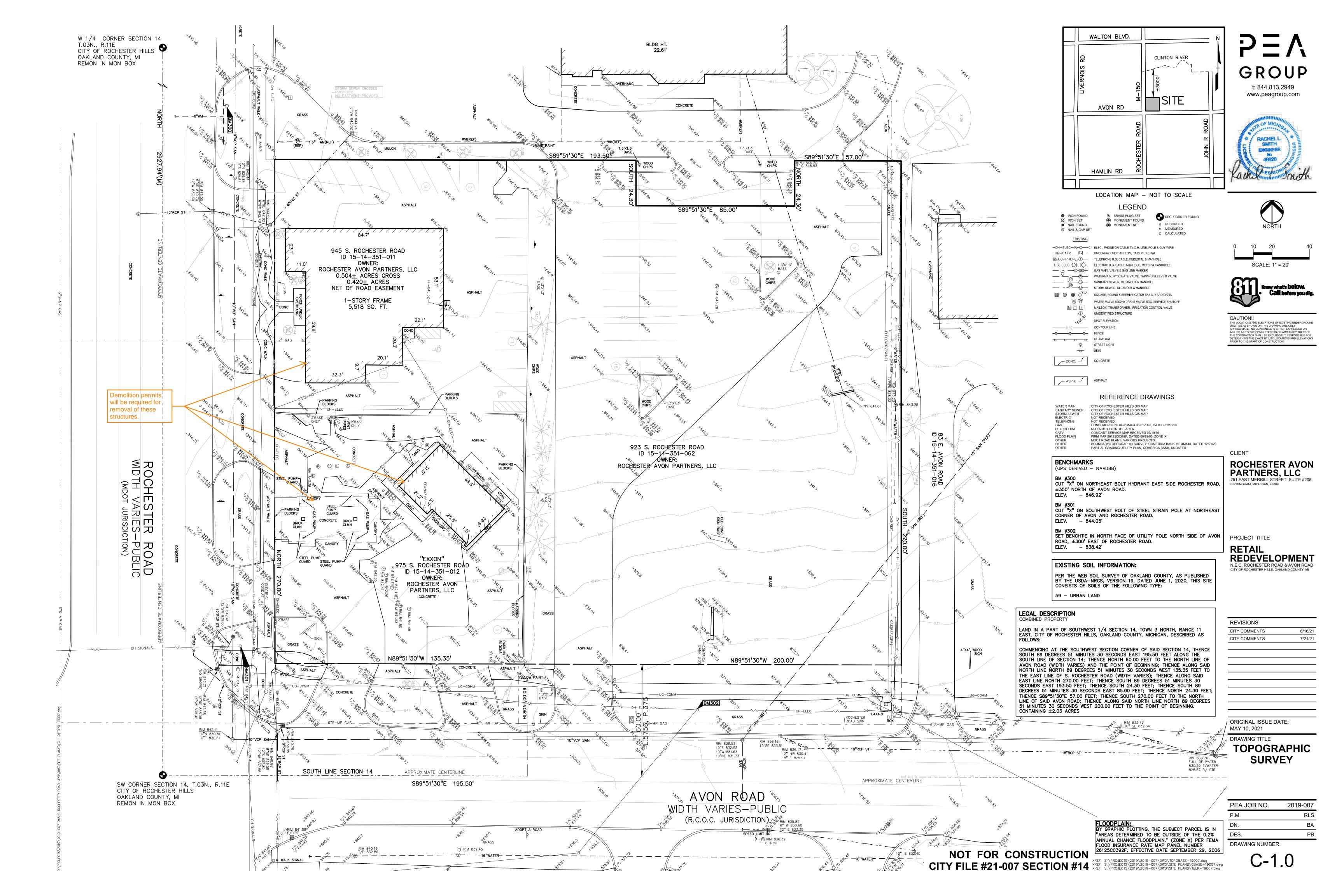
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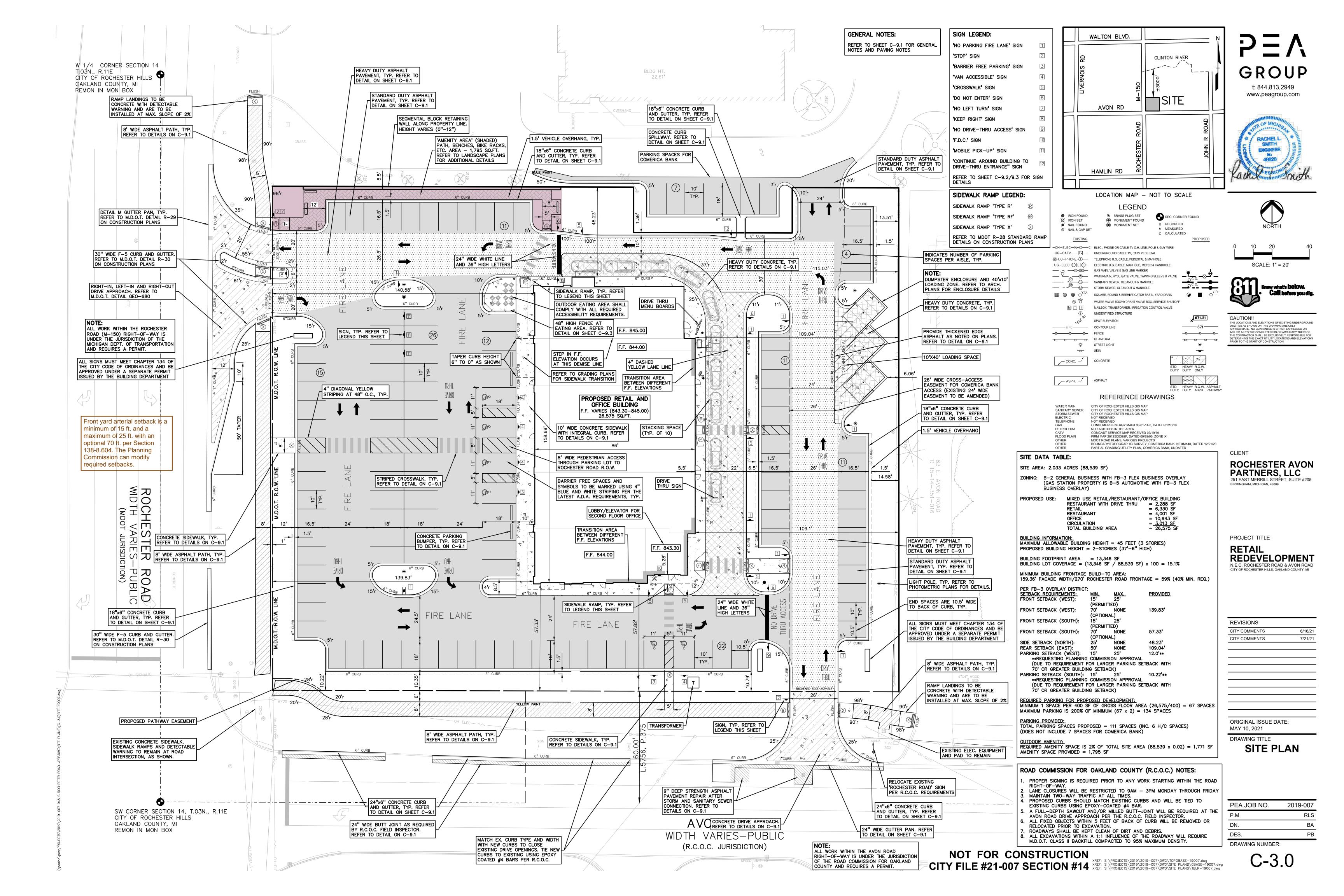
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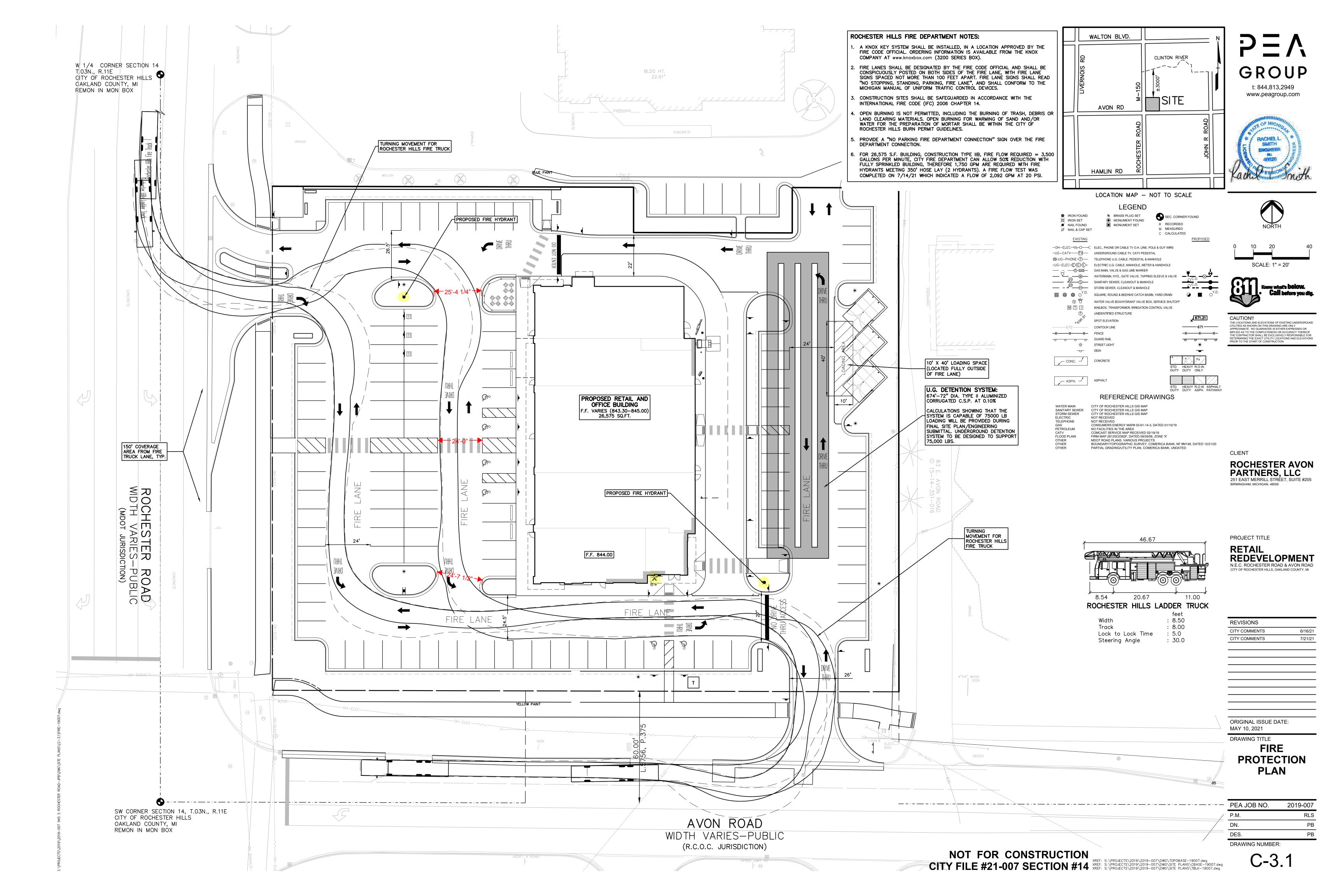
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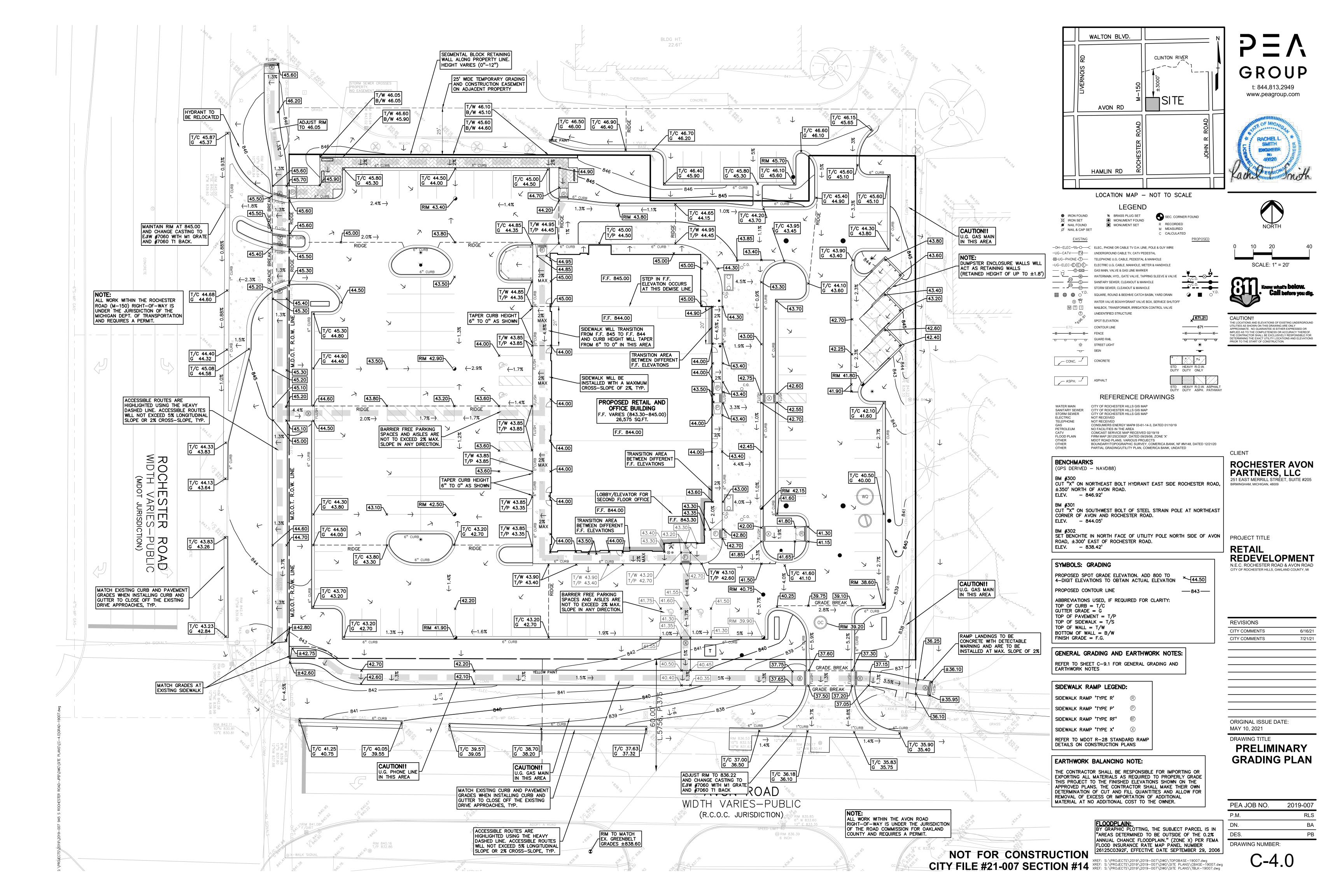
MAY 10, 2021

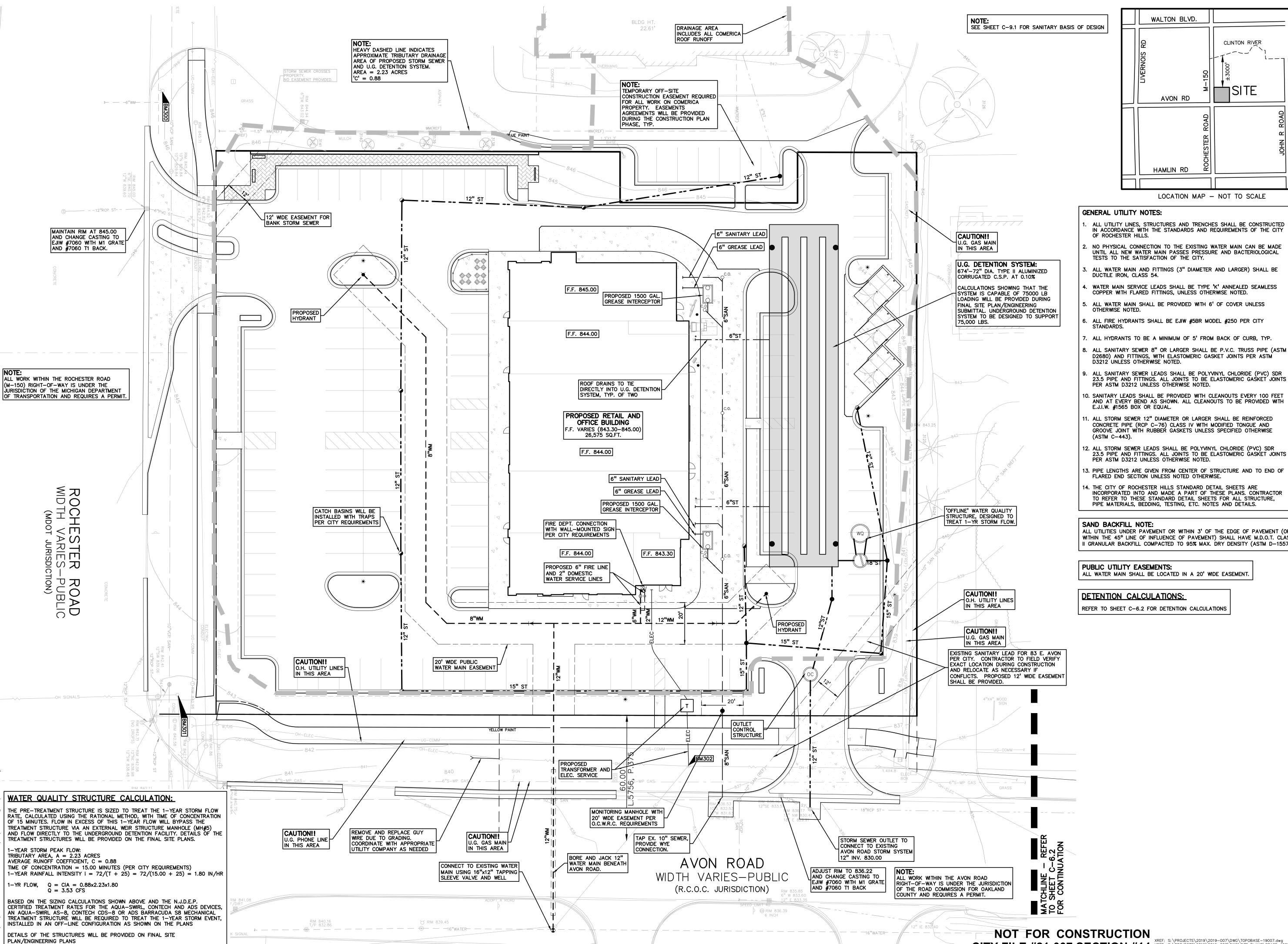
PEA JOB NO.	2019-007
P.M.	RLS
DN.	ВА
DES.	РВ
DRAWING NUMBER:	

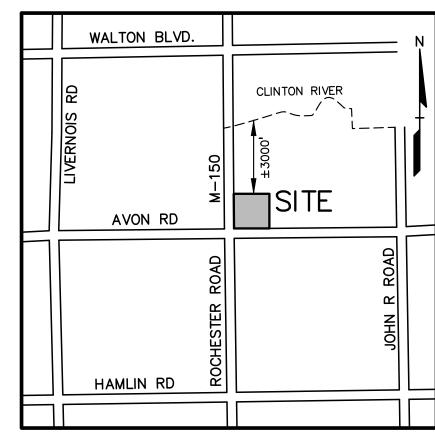
















- ALL UTILITY LINES, STRUCTURES AND TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE CITY
- NO PHYSICAL CONNECTION TO THE EXISTING WATER MAIN CAN BE MADE UNTIL ALL NEW WATER MAIN PASSES PRESSURE AND BACTERIOLOGICAL TESTS TO THE SATISFACTION OF THE CITY.
- ALL WATER MAIN AND FITTINGS (3" DIAMETER AND LARGER) SHALL BE
- WATER MAIN SERVICE LEADS SHALL BE TYPE 'K' ANNEALED SEAMLESS COPPER WITH FLARED FITTINGS, UNLESS OTHERWISE NOTED.
- ALL FIRE HYDRANTS SHALL BE EJIW #5BR MODEL #250 PER CITY
- ALL HYDRANTS TO BE A MINIMUM OF 5' FROM BACK OF CURB, TYP.
- 3. ALL SANITARY SEWER 8" OR LARGER SHALL BE P.V.C. TRUSS PIPE (ASTM D2680) AND FITTINGS, WITH ELASTOMERIC GASKET JOINTS PER ASTM
- 3. ALL SANITARY SEWER LEADS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 23.5 PIPE AND FITTINGS. ALL JOINTS TO BE ELASTOMERIC GASKET JOINTS PER ASTM D3212 UNLESS OTHERWISE NOTED.
- 10. SANITARY LEADS SHALL BE PROVIDED WITH CLEANOUTS EVERY 100 FEET
- . ALL STORM SEWER 12" DIAMETER OR LARGER SHALL BE REINFORCED CONCRETE PIPE (RCP C-76) CLASS IV WITH MODIFIED TONGUE AND
- 12. ALL STORM SEWER LEADS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 23.5 PIPE AND FITTINGS. ALL JOINTS TO BE ELASTOMERIC GASKET JOINTS
- PER ASTM D3212 UNLESS OTHERWISE NOTED.
- 13. PIPE LENGTHS ARE GIVEN FROM CENTER OF STRUCTURE AND TO END OF
- 14. THE CITY OF ROCHESTER HILLS STANDARD DETAIL SHEETS ARE INCORPORATED INTO AND MADE A PART OF THESE PLANS. CONTRACTOR TO REFER TO THESE STANDARD DETAIL SHEETS FOR ALL STRUCTURE. PIPE MATERIALS, BEDDING, TESTING, ETC. NOTES AND DETAILS.

ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) SHALL HAVE M.D.O.T. CLASS II GRANULAR BACKFILL COMPACTED TO 95% MAX. DRY DENSITY (ASTM D-1557).

PUBLIC UTILITY EASEMENTS:

DETENTION CALCULATIONS:

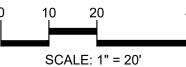
REFER TO SHEET C-6.2 FOR DETENTION CALCULATIONS





t: 844.813.2949

www.peagroup.com





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ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STREET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

PROJECT TITLE **RETAIL**

REDEVELOPMENT

N.E.C. ROCHESTER ROAD & AVON ROAD

REVISIONS CITY COMMENTS CITY COMMENTS 7/21/21

ORIGINAL ISSUE DATE: MAY 10, 2021

DRAWING TITLE **PRELIMINARY UTILITY PLAN -WEST**

PEA JOB NO. 2019-007 RLS DES. DRAWING NUMBER:

SAND BACKFILL NOTE:
ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) SHALL HAVE M.D.O.T. CLASS

The detention pond and/or the storm sewer outlet will need to be revised to provide a positive slope for the

entire system. Currently the outlet of the proposed storm sewer is at 830.00 but the end section 200 feet to

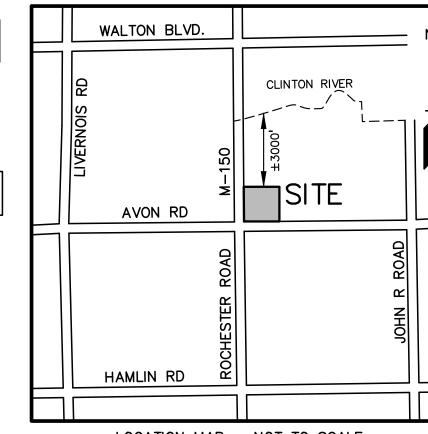
825.86 B/STR

the east is at 831.60. Revisions will need to occur at the construction plan phase. See attached Rainier

Avenue Drain for a possible storm sewer outlet.

II GRANULAR BACKFILL COMPACTED TO 95% MAX. DRY DENSITY (ASTM D-1557).

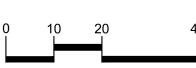
PUBLIC UTILITY EASEMENTS:
ALL WATER MAIN SHALL BE LOCATED IN A 20' WIDE EASEMENT.

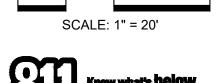






NORTH





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.

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ROCHESTER AVON PARTNERS, LLC
251 EAST MERRILL STREET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

PROJECT TITLE

REVISIONS

CITY COMMENTS

CITY COMMENTS

RETAIL
REDEVELOPMENT
N.E.C. ROCHESTER ROAD & AVON ROAD
CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MI

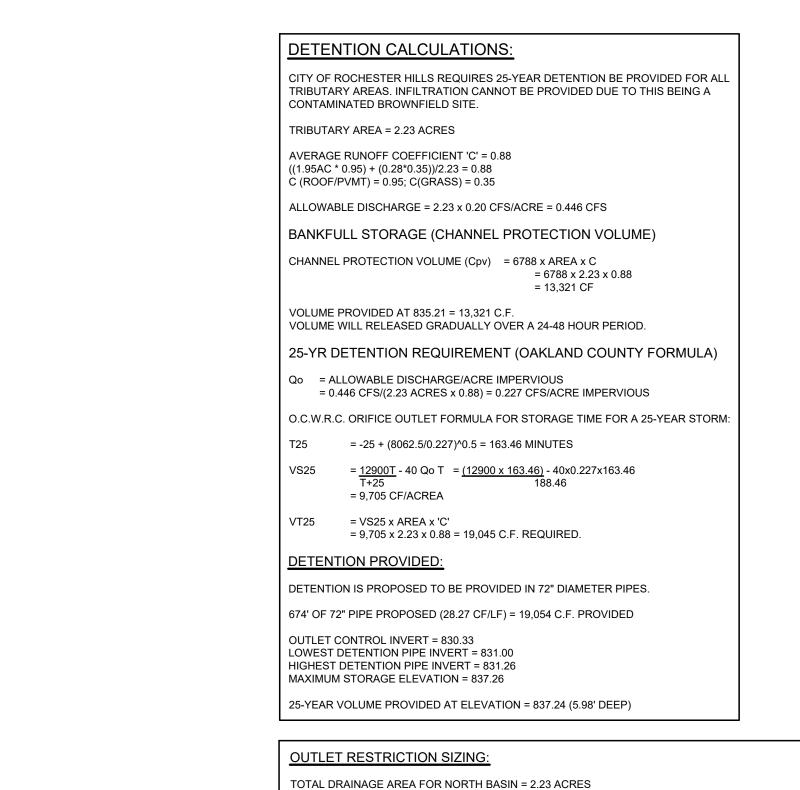
7/21/21

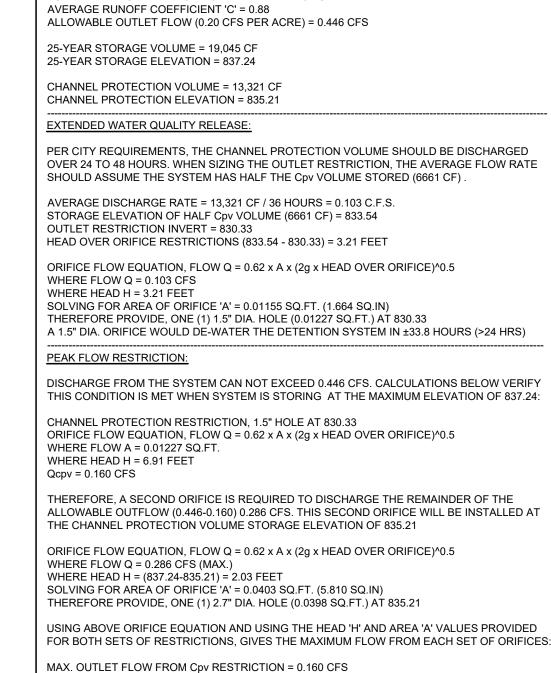
RLS

DRAWING TITLE
PRELIMINARY
UTILITY PLAN -

EASTPEA JOB NO. 2019-007

3 NUM	IBER:	
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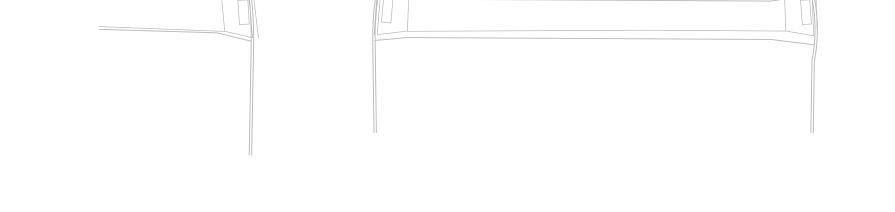




MAX. OUTLET FLOW FROM 25-YEAR RESTRICTION = 0.282 CFS

COMBINED MAXIMUM OUTLET FLOW (0.160 + 0.282) = 0.442 CFS (LESS THAN 0.446 ALLOWABLE)

REFER TO OUTLET CONTROL DETAIL ON SHEET C-9.3 FOR ADDITIONAL DETAILS



6" SANITARY LEAD

6" GREASE LEAD

6"ST

6"ST

OUTLET

AVON ROAD

WIDTH VARIES-PUBLIC

(R.C.O.C. JURISDICTION)

STRUCTURE

PROPOSED

HYDRANT

STORM SEWER OUTLET TO

AVON ROAD STORM SYSTEM

CONNECT TO EXISTING

12" INV. 830.00

ADJUST RIM TO 836.22
AND CHANGE CASTING TO EJIW #7060 WITH M1 GRATE

AND #7060 T1 BACK

PROPOSED 1500 GAL.

GREASE INTERCEPTOR

F.F. 844.00

ROOF DRAINS TO TIE

PROPOSED RETAIL AND

OFFICE BUILDING

26,575 SQ.FT.

F.F. 844.00

FIRE DEPT. CONNECTION WITH WALL-MOUNTED SIGN

PER CITY REQUIREMENTS

F.F. 844.00

PROPOSED 6" FIRE LINE

PROPOSED

TRANSFORMER AND

BORE AND JACK 12"

WATER MAIN BENEATH

AVON ROAD.

MONITORING MANHOLE WITH

TAP EX. 10" SEWER,

PROVIDE WYE CONNECTION.

20' WIDE EASEMENT PER

O.C.W.R.C. REQUIREMENTS

ELEC. SERVICE

AND 2" DOMESTIC WATER SERVICE LINES

F.F. VARIES (843.30-845.00)

DIRECTLY INTO U.G. DETENTION-SYSTEM, TYP. OF TWO

6" SANITARY LEAD

PROPOSED 1500 GAL.

GREASE INTERCEPTOR

6" GREASE LEAD

F.F. 843.30

CAUTION!! U.G. GAS MAIN

IN THIS AREA

75,000 LBS.

'OFFLINE' WATER QUALITY STRUCTURE, DESIGNED TO

TREAT 1-YR STORM FLOW.

CAUTION!!

CAUTION!!

U.G. GAS MAIN IN THIS AREA

SHALL BE PROVIDED.

NOTE:
ALL WORK WITHIN THE AVON ROAD
RIGHT-OF-WAY IS UNDER THE JURISDICTION

OF THE ROAD COMMISSION FOR OAKLAND

COUNTY AND REQUIRES A PERMIT.

EXISTING SANITARY LEAD FOR 83 E. AVON PER CITY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION DURING CONSTRUCTION

CONFLICTS. PROPOSED 12' WIDE EASEMENT

AND RELOCATE AS NECESSARY IF

U.G. DETENTION SYSTEM:

674'-72" DIA. TYPE II ALUMINIZED CORRUGATED C.S.P. AT 0.10%

CALCULATIONS SHOWING THAT THE SYSTEM IS CAPABLE OF 75000 LB

FINAL SITE PLAN/ENGINEERING SUBMITTAL. UNDERGROUND DETENTION SYSTEM TO BE DESIGNED TO SUPPORT

LOADING WILL BE PROVIDED DURING

NOT FOR CONSTRUCTION
CITY FILE #21-007 SECTION #14

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GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- 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 OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
- 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
- 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 PAID FOR SEPARATELY.

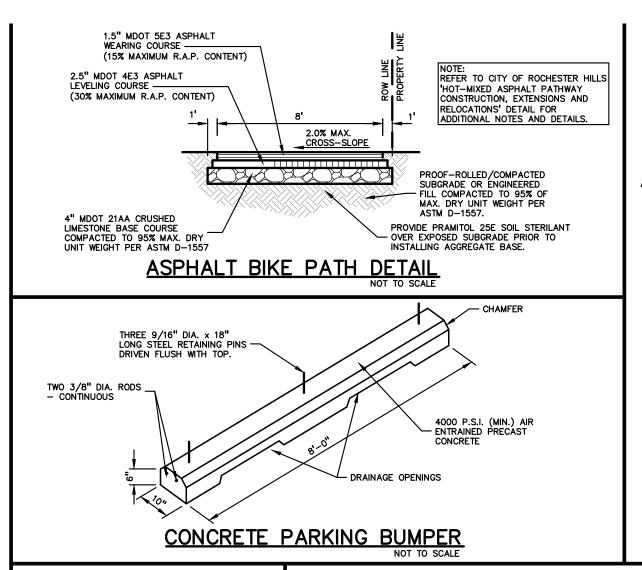
PAVING NOTES:

- 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.
- 5. 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
- 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 SEALANT
- 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 THE
- SUBMITTAL PROCESS. 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
- 6.1. WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SFALANT
- 6.2. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOINT 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:

BACKFILLED WITH SUITABLE MATERIAL.

- 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 AND REPORT.
- 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. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS.
- PROVIDE A MINIMUM OF 4" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED. . 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
- 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



PROPOSED SANITARY SEWER BASIS OF DESIGN

Square Footage

Population (P) (2.44 PEOPLE/EDU)

Population (P) (2.44 PEOPLE/EDU)

Population (P) (2.44 PEOPLE/EDU)

Quick Service Restaurants

Unit Factor

Retail

Number

Unit Factor

Number of units

Unit Factor

TOTAL

(Unit Factors Based on Oakland County Unit Assignment Factors)

Average Flow (100 GPCPD)

PF = (18 + sqrt(P))/(4 + sqrt(P))

Peaking Factor (PF)

Peak Flow (G.D.P.)

Peak Flow (C.F.S.)

P (1000s)

6" Pipe Capacity Provided 0.665 C.F.S.

10,943 S.F.

4.4

6,330

10.7 People

0.04 per 1000 s

0.6 People

1 per unit

4.9 People

16 People

1,618 G.P.D.

0.003 C.F.S.

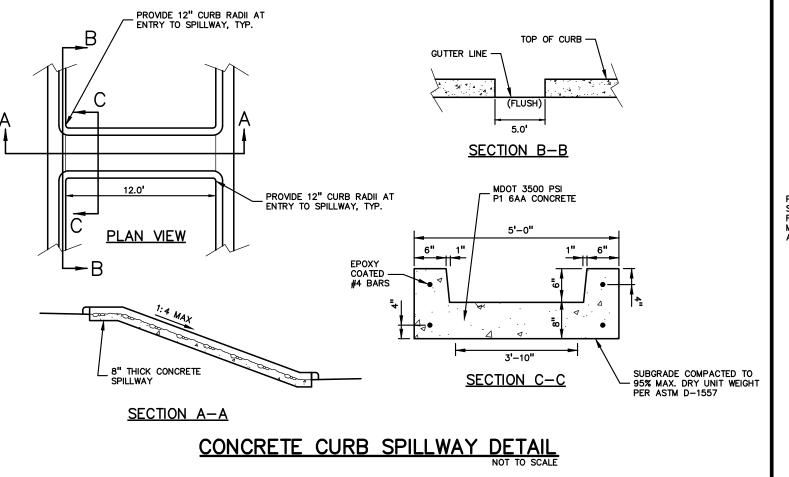
7,106 G.P.D.

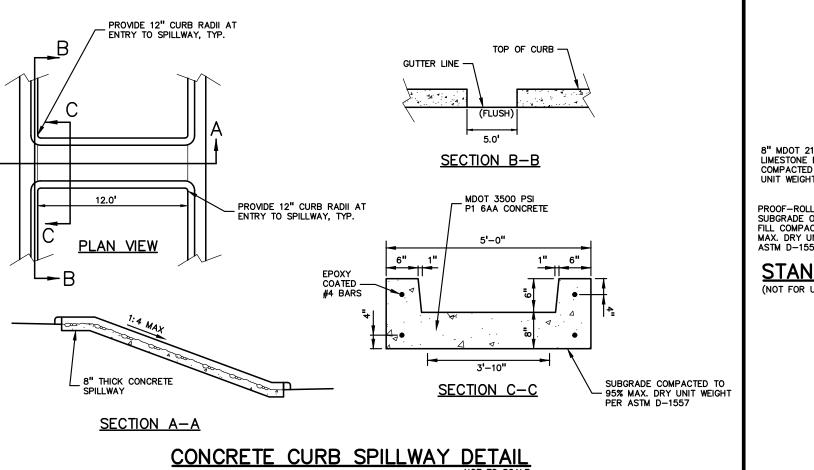
0.011 C.F.S.

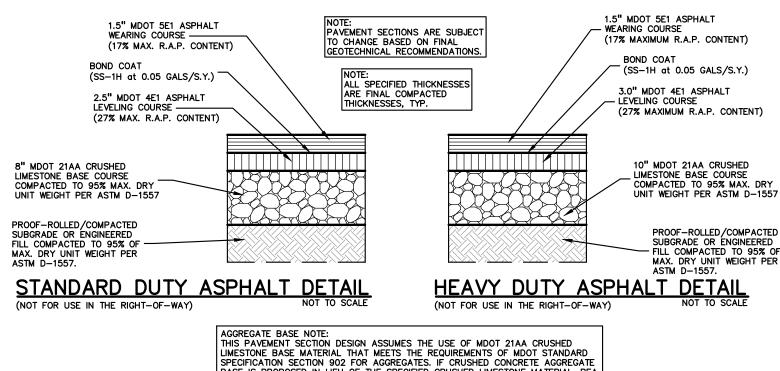
0.016

4.39

0.4 per 1000 sf







BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF

TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP. THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MDOT SPECIFICATION SECTION 902, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED.

HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MOOT SPECIAL PROVISION 12SP501(E). THE BINDER GRADE FOR THIS WORK IS PG64-28. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS

PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MDOT 'TIER 1' OR 'TIER 2

REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION

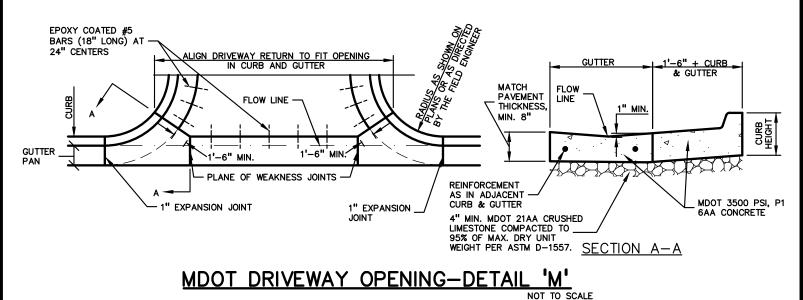
NOTE: ALTERNATE REVERSE CURB SECTION TO

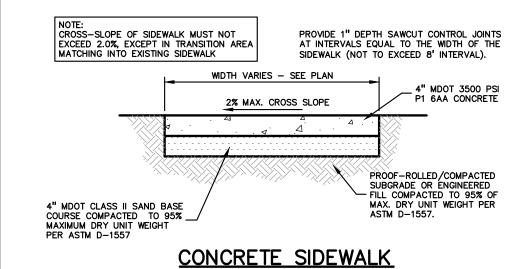
BE USED ONLY WHEN DRAINING AWAY FROM CURB. SEE PLAN FOR LOCATION.

ASPHALT MATERIAL NOTES:









AS INDICATED ON PLANS

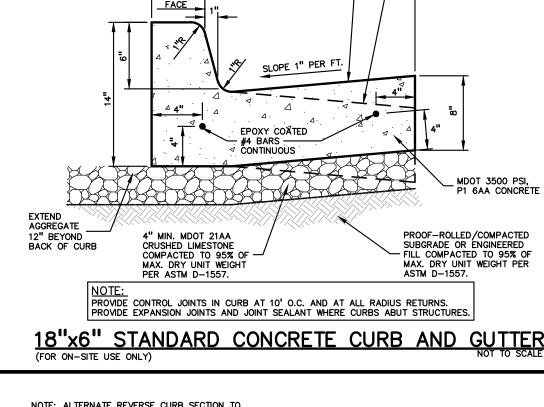
ASPHALT PAVING -

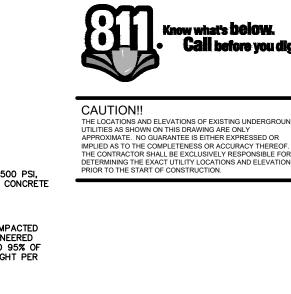
· 1" RADIUS

MDOT 3500 PSI P1

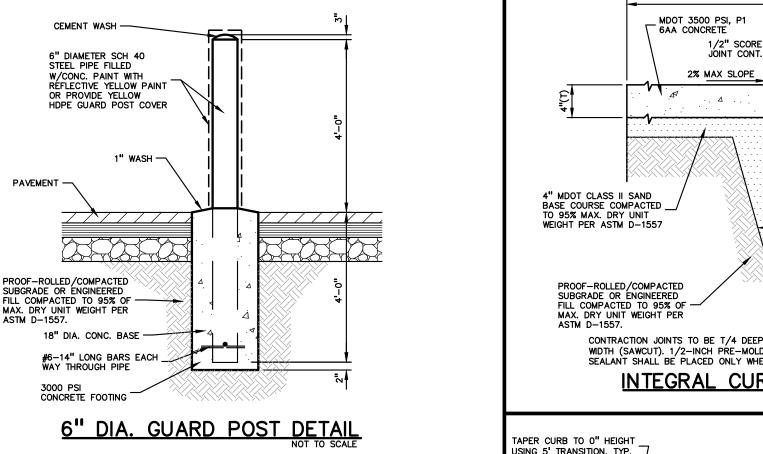
PROOF-ROLLED/COMPACTED

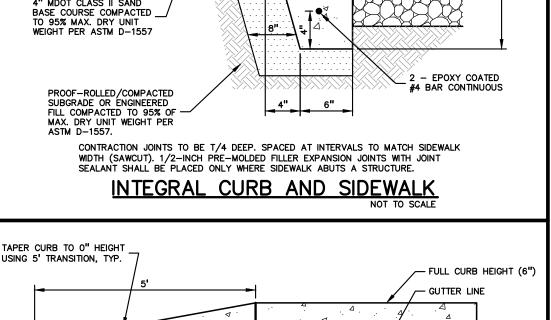
SUBGRADE OR ENGINEERED
- FILL COMPACTED TO 95% OF





CLIENT



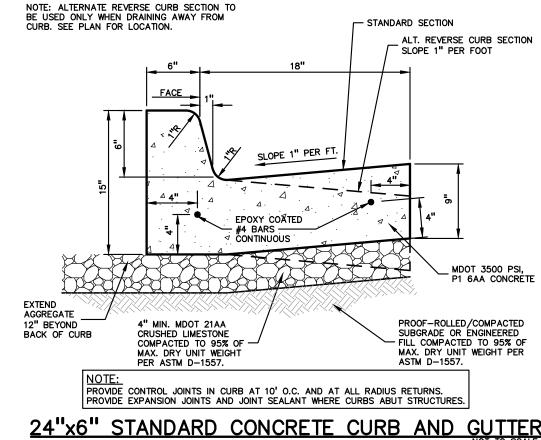


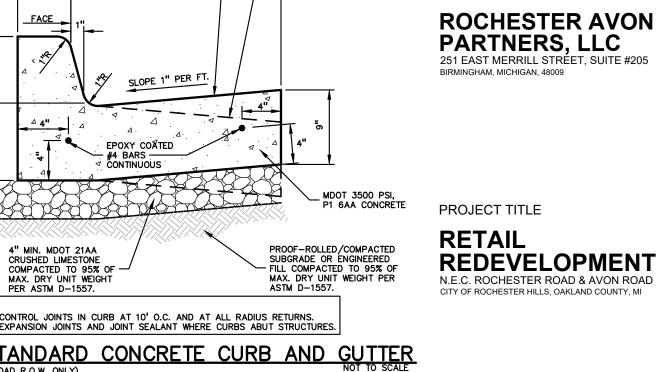
CURB END TRANSITION DETAIL

VARIES - SEE PLAN

M.D.O.T. F-6 CURB REQUIRED IN DRIVE APPROACH AND WITHIN M.D.O.T. RIGHT-OF-WAY. PAVEMENT SECTION SUBJECT TO CHANGE UNTIL M.D.O.T. APPROVAL IS COMPLETE.

8" MDOT #21AA CRUSHED LIMESTONE BASE COURSE COMPACTED TO 95% MAX.

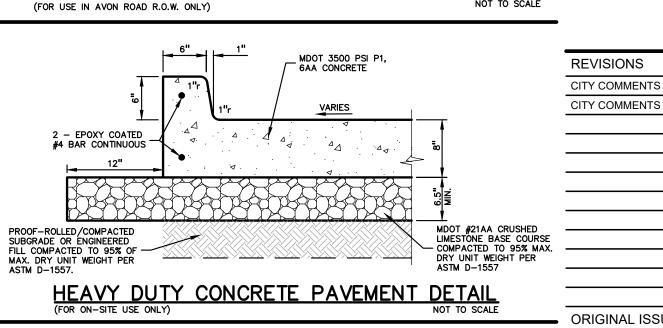


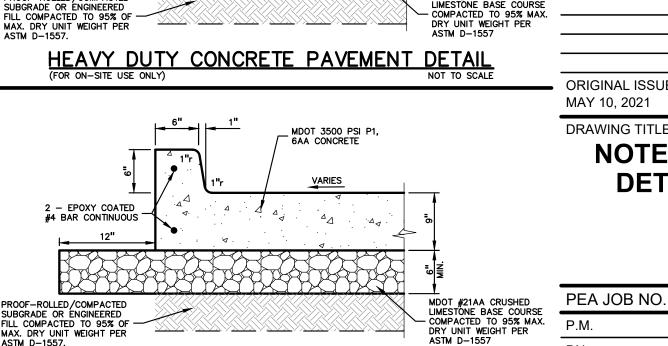


- STANDARD SECTION

ALT. REVERSE CURB SECTION

SLOPE 1" PER FOOT





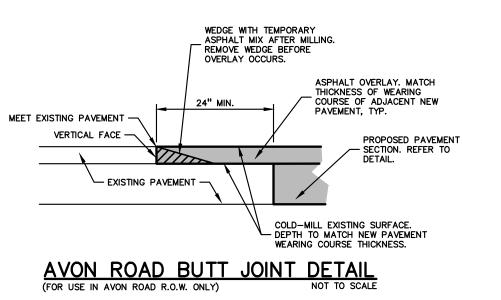
CITY COMMENTS 7/21/21 **ORIGINAL ISSUE DATE:** DRAWING TITLE **NOTES AND DETAILS**

> 2019-007 RLS BA DN. DES. PΒ DRAWING NUMBER:

6/16/21

REDUCED ASPHALT THICKNESS

TO TYPICAL PAVEMENT SECTION
USING A 5' TRANSITION THICKEN ASPHALT EDGE TO MATCH CONCRETE PAVEMENT SECTION THICKNESS ASPHALT WEARING ASPHALT LEVELING COURSE REFER TO DETAIL ON - THIS SHEET FOR TYPICAL PAVEMENT SECTION CONCRETE PAVEMENT $\triangle \triangleleft$ AGGREGATE BASE COURSE COMPACTED TO 95% MAX. DRY UNIT WEIGHT PER ASTM D-155 ASPHALT THICKENED SECTION (MULTIPLE LIFTS DEPENDANT O ENGINEERED FILL COMPACTED TO 95% OF MAX. DRY UNIT WEIGHT PER ASTM D-1557. MIX AND THICKNESS THICKENED EDGE ASPHALT DETAIL WEDGE WITH TEMPORARY ASPHALT MIX AFTER MILLING. REMOVE WEDGE BEFORE THICKNESS OF WEARING



ROCHESTER ROAD CONCRETE APPROACH DETAIL (FOR USE IN ROCHESTE ROAD R.O.W. ONLY) 3" MDOT 4E1 ASPHALT LEVELLING COURSE 2" MDOT 5E1 ASPHALT WEARING COURSE 4" MDOT 3E1 ASPHALT BASE COURSE (IN 2 LIFTS) (SS-1H at 0.05 GALS/S.Y.) * R.C.O.C. REQUIRES THAT THE 9" OF ASPHALT BE PLACED OVER A SUITABLE GRANULAR COMPACTED SUBBASE. EXACT REQUIREMENTS FOR THE BASE WILL BE AS REQUIRED BY THE R.C.O.C. FIELD INSPECTOR. PROOF-ROLLED/COMPACTED SUBGRADE OR ENGINEERED
- FILL COMPACTED TO 95% OF MAX. DRY UNIT WEIGHT PER DEEP STRENGTH ASPHALT DETAIL (R.C.O.C.

NOT FOR CONSTRUCTION CITY FILE #21-007 SECTION #14 XREF: S: \PROJECTS\2019\2019\-007\DWG\SITE PLANS\CBASE-19007.dwg

XREF: S: \PROJECTS\2019\2019\-007\DWG\SITE PLANS\CBASE-19007.dwg

XREF: S: \PROJECTS\2019\2019\-007\DWG\SITE PLANS\TBLK-19007.dwg

AVON ROAD CONCRETE APPROACH DETAIL

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
- 3. WALKING SURFACES MUST BE LEVEL WITH PERMITTED 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"
- 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 SIDEWALKS, 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 VEHICLES. 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
- 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

18" WIDE WHITE CROSSWALK

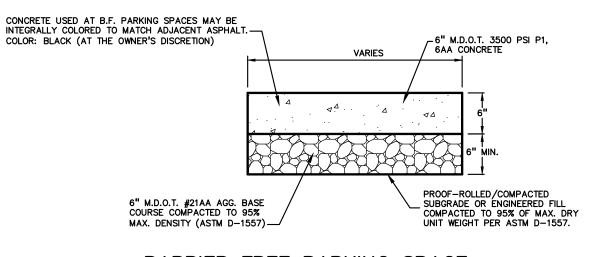
STRIPING, 48" O.C., TYPICAL.

ADJACENT SIDEWALK RAMPS - AS SHOWN ON THE PLANS.

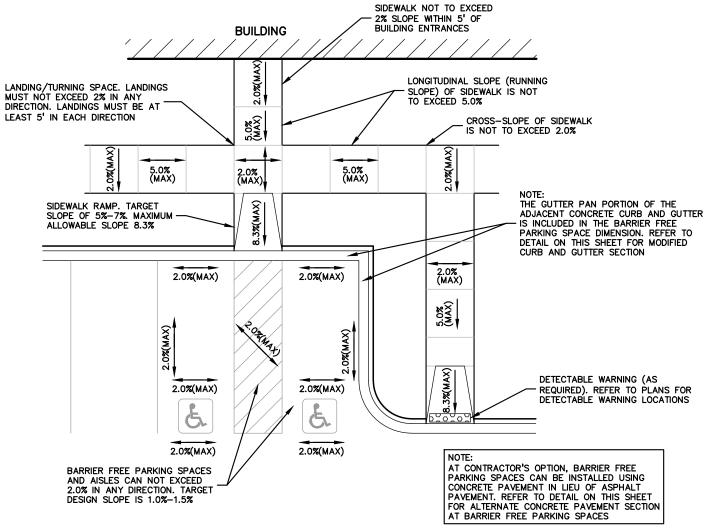
CROSSWALKS TO BE 5' OR 8 WIDE, AS SHOWN ON PLANS

STRIPED CROSSWALK DETAIL

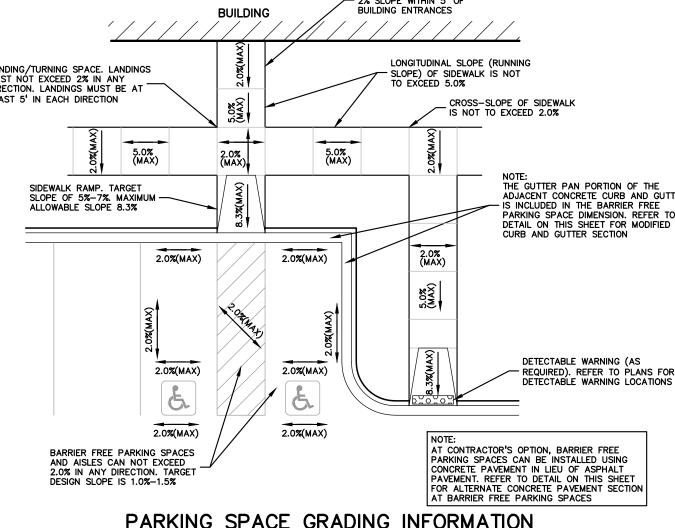
21. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO

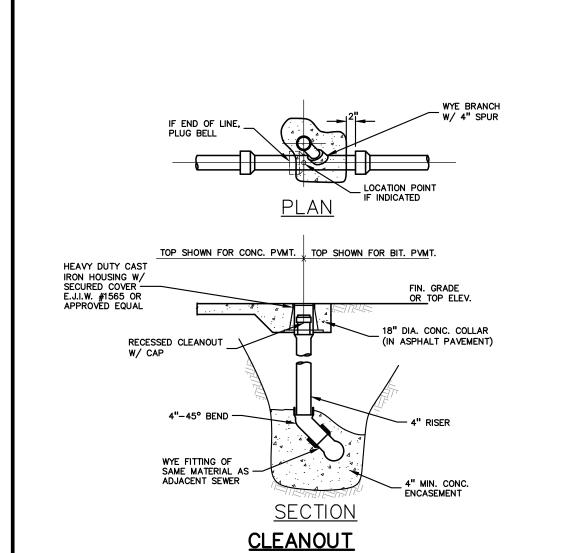


BARRIER FREE PARKING SPACE ALTERNATE CONCRETE PAVEMENT DETAIL



PARKING SPACE GRADING INFORMATION



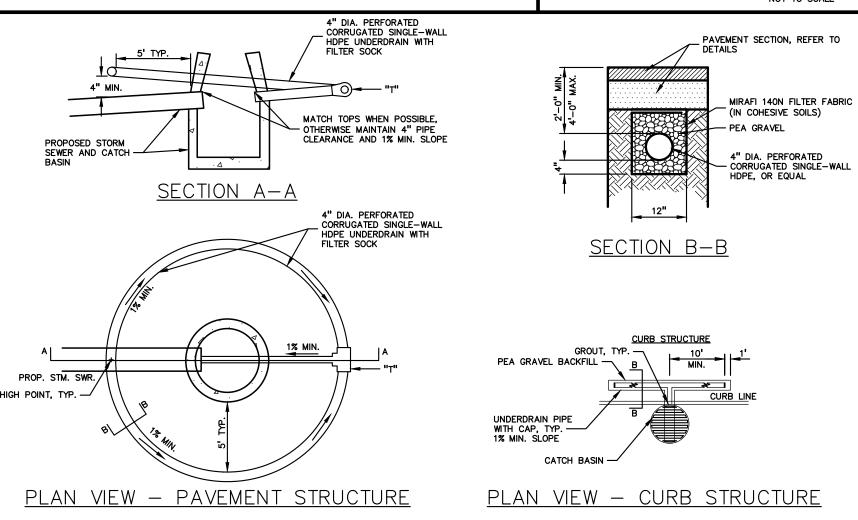




12" x 18" RED ON WHITE REFLECTORIZED 7'-0" MOUNTING HEIGHT NO PARKING-FDC SIGN DETAIL

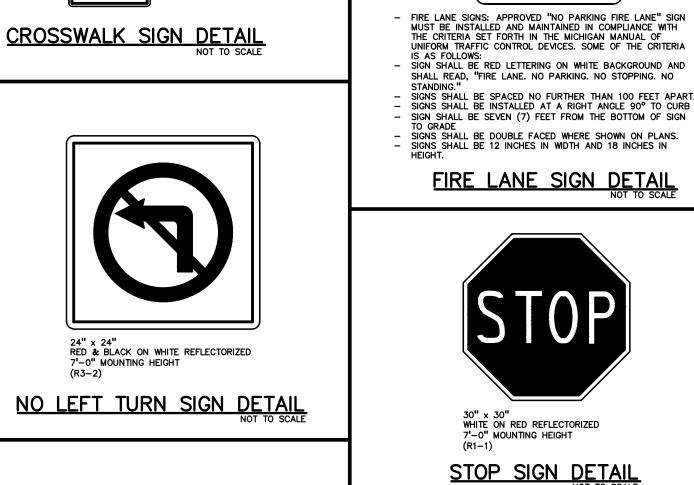


NO DRIVE THRU ACCESS SIGN DETAIL
NOT TO SCALE



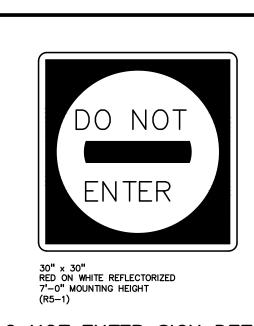
PAVEMENT INLET/CATCH BASIN UNDERDRAIN DETAIL

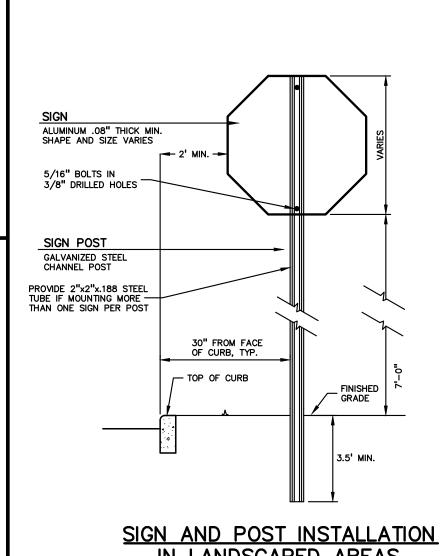
BLACK ON WHITE REFLECTORIZED

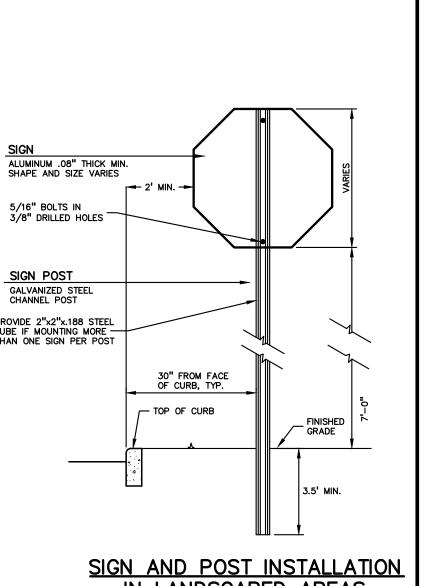


BLACK ON YELLOW REFLECTORIZED 7'-0" MOUNTING HEIGHT

I ACK ON YELLOW REFLECTORIZED







BARRIER FREE SIGN NOTES:

AND LOCAL REQUIREMENTS.

OF PARKING

SPACE

© OF PARKING

ℚ SPACE

11'-0" MIN.

STALL WIDTH

THE BARRIER FREE PARKING SYMBOL SHALL BE

CONTRACTOR SHALL ADHERE TO LOCAL/STATE

JURISDICTIONAL REQUIREMENTS FOR ALL PAINTING

MAXIMUM CHANGE IN LEVEL

MAXIMUM BEVELED CHANGE IN LEVEL

BARRIER FREE SURFACE

CHANGE IN LEVEL TOLERANCE

LOCATED IN THE CENTER OF THE PARKING SPACE AND

ALONG THE EDGE OF THE ADJACENT DRIVE AISLE, TYP. PARKING SYMBOL STRIPING SHALL HAVE A MINIMUM

4" WIDE BLUE PARKING STRIPES

BARRIER FREE PARKING SYMBOL, TYP. AT EACH SPACE. REFER TO DETAIL ON THIS SHEET

BARRIER FREE SIGNS AND POSTS, TYP

PROVIDE SIGN LOCATIONS PER PLAN)

5'-0" MIN

BARRIER FREE PARKING SYMBOL DETAIL

(INTERNATIONAL SYMBOL OF ACCESSIBILITY)

UNIVERSAL BARRIER FREE PARKING STALL DETAIL

WIDTH OF 3"

4" WIDE BLUE PARKING STRIPI

- ACCESSIBILITY WITH BLUE BACKGROUND

- 3" (MIN.) WIDE WHITE BORDER

EDGE OF DRIVE LANE ADJACENT TO PARKING SPACE

WITHIN ACCESSIBLE SPACES.

OF PARKING

SPACE

ALL DIMENSIONS ARE TO CENTER O

PARKING STRIPE

11'+0" MIN. VAN ACCESSIBLE

STALL WIDTH

FIRE LANE

NO PARKING

NO STOPPING

NO STANDING

2'-9"

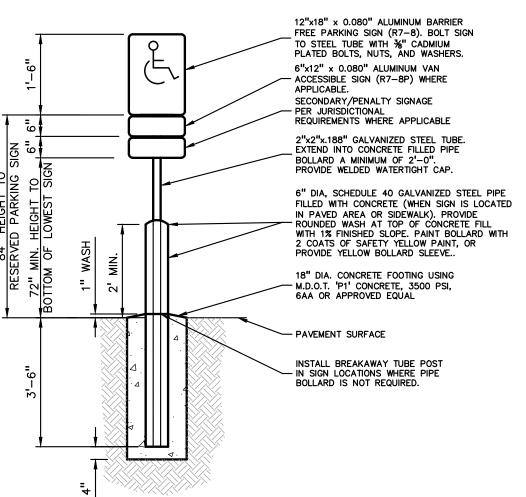
2' MIN.

VAN ACCESSIBLE SPACES MUST BE LOCATED TO THE LEFT OF

THE 5' STRIPED ACCESS AISLE

STRIPE UNLESS OTHERWISE INDICATED

- 1. ONE SIGN IS REQUIRED AT EACH BARRIER FREE PARKING SPACE. 2. ALL SIGNS SHALL COMPLY WITH THE LATEST STANDARDS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
- 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 7/16" HOLES AT 1" CENTERS. POSTS SHALL TELESCOPE INSIDE ANCHOR POSTS A
- 5. ANCHOR POSTS SHALL BE 2.25" NOM. SQUARE 12-GAUGE GALVANIZED STEEL POST,
- A MINIMUM OF 3 FEET LONG.
- 6. IF THESE NOTES AND DETAILS CONFLICT WITH LOCAL CODES AND ORDINANCES, THE STRICTER REQUIREMENT SHOULD BE USED. 7. ALTERNATE MATERIALS MAY BE USED IF IN COMPLIANCE WITH A.D.A. GUIDELINES





THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUN JTILITIES AS SHOWN ON THIS DRAWING ARE ONLY PPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR

MPLIED 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.

CAUTION!!

t: 844.813.2949

www.peagroup.com

BARRIER FREE SIGN AND POST DETAIL

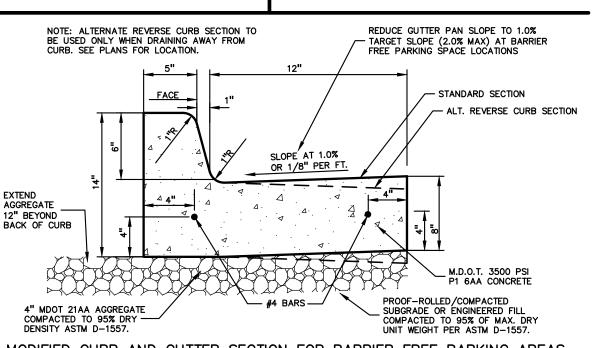
RESERVED RESERVED PARKING PARKING 12" x 18" (R7–8) GREEN BORDER AND LEGEND WHITE SYMBOL, BLUE BACKGROUND REFLECTORIZED MAY ONLY BE USED AT 11' WIDE SPACES LOCATED ON THE LEFT SIDE OF A 5' WIDE AISLE, OR 8' WIDE SPACES LOCATED TO THE ONLY LEFT OF 8' WIDE AISLES 12" x 18" (R7-8) GREEN BORDER AND LEGEND WHITE SYMBOL, BLUE BACKGROUND. REFLECTORIZED GREEN BORDER AND ACCESSIBL REFLECTORIZED **BARRIER FREE** PARKING SIGN DETAIL

PARKING SIGN DETAIL

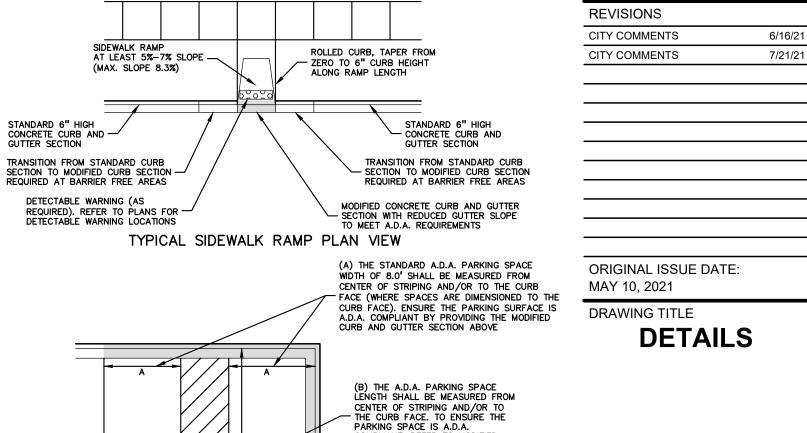
ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STREET, SUITE #205

PROJECT TITLE

RETAIL



REDEVELOPMENT N.E.C. ROCHESTER ROAD & AVON ROAD MODIFIED CURB AND GUTTER SECTION FOR BARRIER FREE PARKING AREAS REVISIONS CITY COMMENTS



COMPLIANT. REFER TO MODIFIED CURB AND GUTTER DETAIL ABOVE PEA JOB NO. 2019-007 RLS TYPICAL BARRIER FREE PARKING SPACES

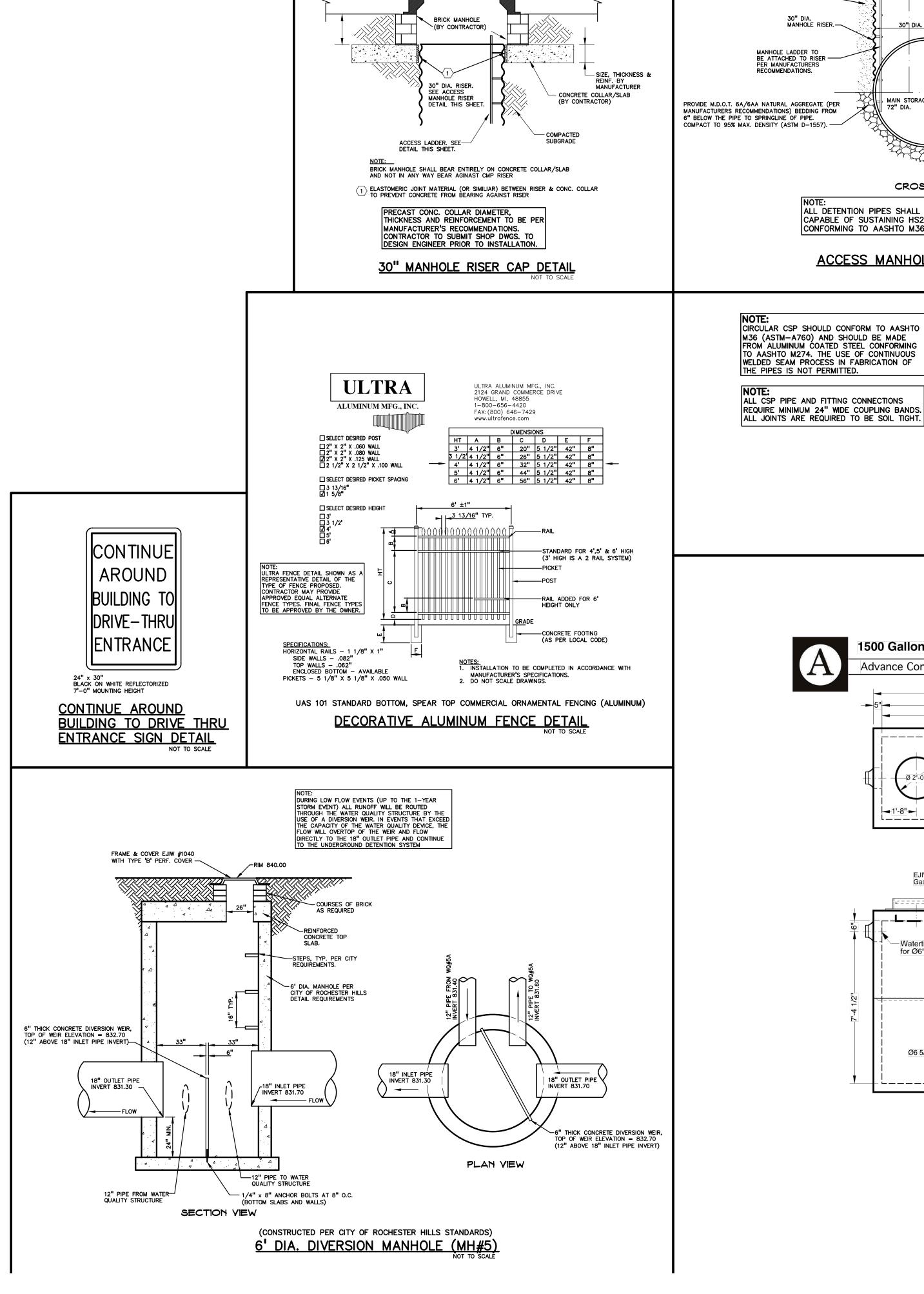
MODIFIED 18"x6" CONCRETE CURB AND GUTTER DES. DRAWING NUMBER:

KEEP RIGHT SIGN DETAIL

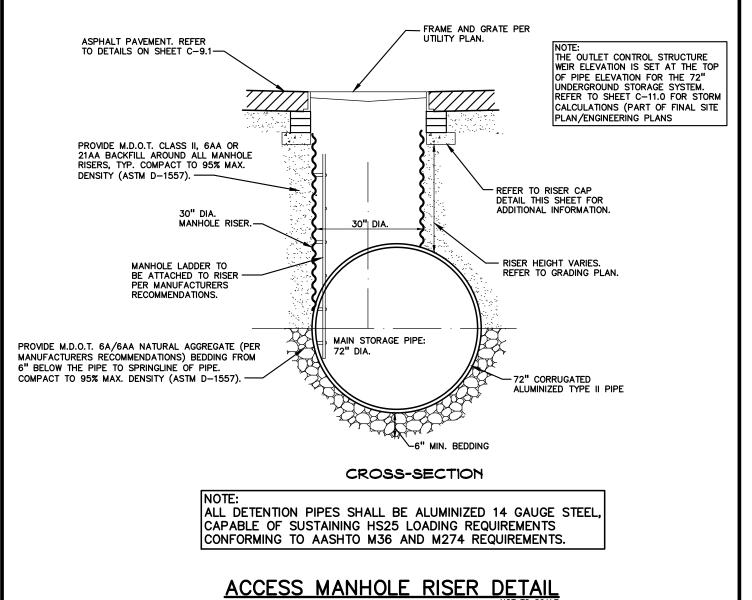
DO NOT ENTER SIGN DETAIL

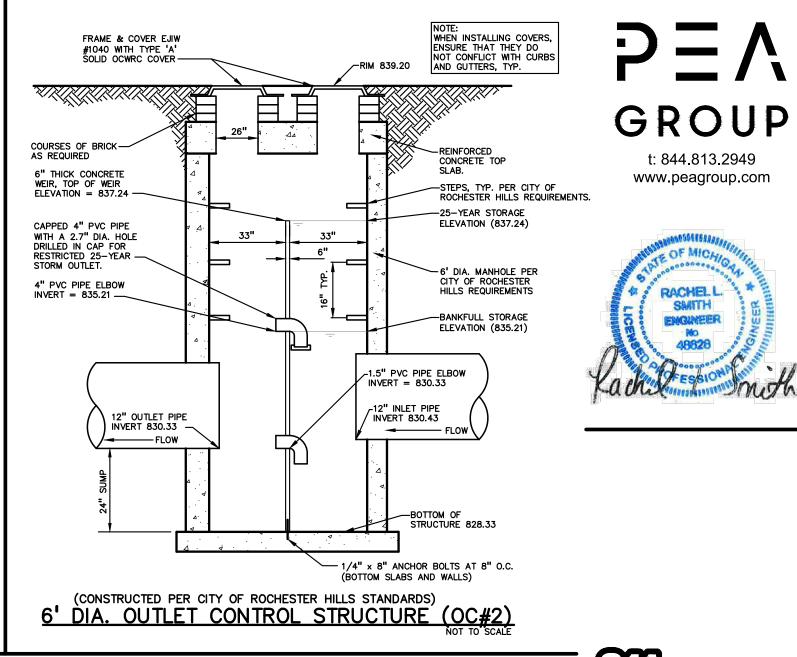
IN LANDSCAPED AREAS

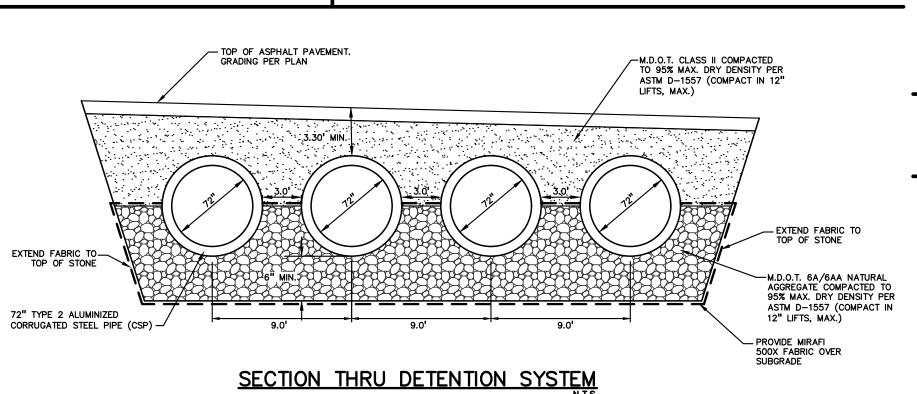
DETAIL TO BE USED IN BARRIER FREE AREAS NOT FOR CONSTRUCTION CITY FILE #21-007 SECTION #14 XREF: S:\PROJECTS\2019\2019\-007\DWG\SITE PLANS\CBASE-19007.dwg



PROPOSED GRADE







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.

TEND FABRIC TO P OF STONE

D.T. 6A/6AA NATURAL REGATE COMPACTED TO MAX. DRY DENSITY PER M D-1557 (COMPACT IN LIFTS, MAX.)

E MIRAFI ABRIC OVER

CLIENT

ROCHESTER AVON

PARTNERS, LLC
251 EAST MERRILL STREET, SUITE #205
BIRMINGHAM, MICHIGAN, 48009

Advance Concrete Products Company

(800) 824-8351 (248) 887-4173 Fax: (248) 887-2755

All Concrete Shall Have A 28 Day Compressive Strength Of 4500 PSI.
Reinforcing Steel Shall Comply With ASTM A615 Grade 60 Rebar.
Bar Bending And Placement Shall Comply With The Latest ACI Standards.
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement
Between Top And Boltom Sections Of Vault.

RETAIL

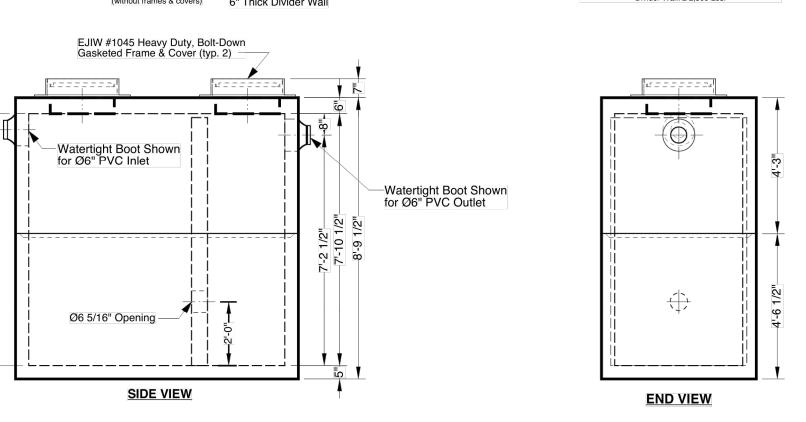
Bar Bending And Placement Shall Comply With The Latest ACI Standard
Standard Structural Design Based On AASHTO HS 20 Wheel Loading.

1" Ø Butyl Rubber Rope Mastic Is Provided For Placement
Between Top And Bottom Sections Of Vault.

If Function Of Interceptor Is Oil, Gas, or Water Separation,
Fuel Resistant Rope Mastic Is Recommended & Can Be Provided.

- Available Options Grade Adjustment Rings
Cast Iron Frames & Covers
Custom Opening Locations
Watertight Boots in Variety of Sizes
Double, Triple or Quadruple Compartments

- Approximate Weight Total: ±20,900 Lbs.
Bottom Section: ±9,300 Lbs. Top Section: ±9,300 Lbs.
Divider Wall: ±2,300 Lbs.
Divider Wall: ±2,300 Lbs.
Divider Wall: ±2,300 Lbs.



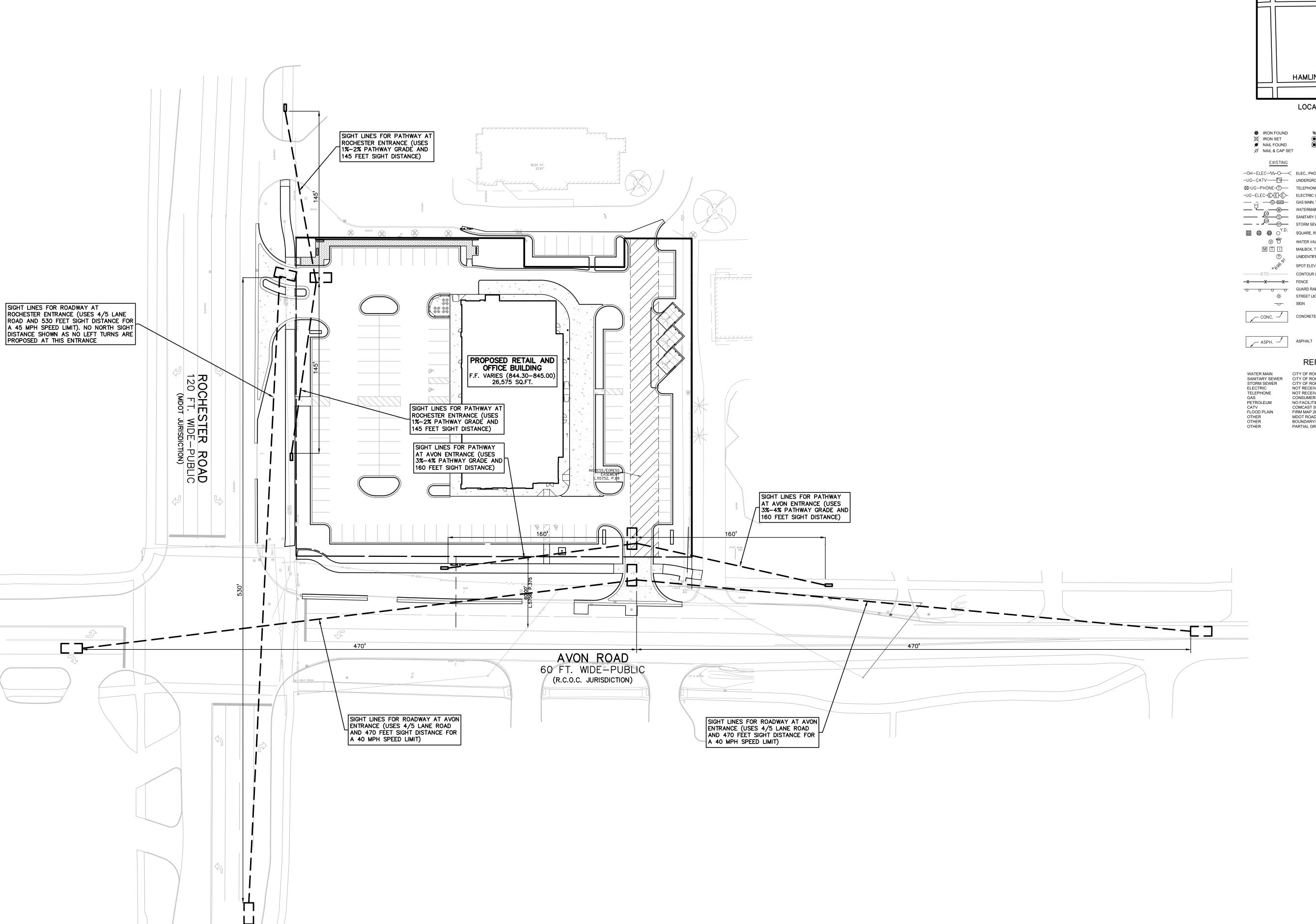
RETAIL REDEVELOP N.E.C. ROCHESTER ROAD 8	AVON ROAD
N.E.C. ROCHESTER ROAD 8 CITY OF ROCHESTER HILLS, OAKLAN	
REVISIONS	
CITY COMMENTS	6/16/21
CITY COMMENTS	7/21/21
-	
ORIGINAL ISSUE DATE	::
MAY 10, 2021	
DRAWING TITLE	

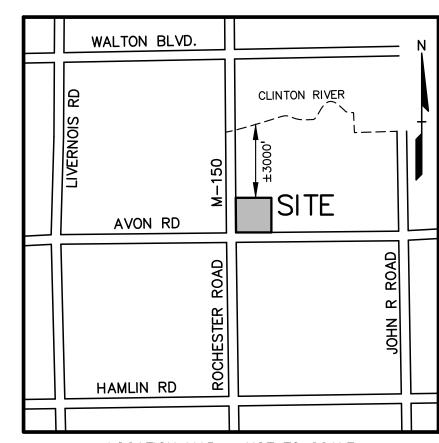
	PEA JOB NO.	2019-007
GREASE INTERCEPTOR	P.M.	RLS
NOT TO SCALE	DN.	BA
	DES.	РВ
	DRAWING NUMBE	R:

NOT FOR CONSTRUCTION
CITY FILE #21-007 SECTION #14 XREF: S:\PROJECTS\2019\2019-007\DWG\TOPOBASE-19007.dwg
XREF: S:\PROJECTS\2019\2019-007\DWG\SITE PLANS\CBASE-19007.dwg
XREF: S:\PROJECTS\2019\2019-007\DWG\SITE PLANS\CBASE-19007.dwg

C-9.3

DETAILS





t: 844.813.2949 www.peagroup.com



LOCATION MAP - NOT TO SCALE

LEGEND BRASS PLUG SET MONUMENT FOUND

MONUMENT SET

R RECORDED M MEASURED C CALCULATED

------ 671 ------

-x---x--x-

-OH-ELEC-W-O- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV-TV UNDERGROUND CABLE TV, CATV PEDESTAL -⊠-UG-PHONE-①--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE -UG-ELEC-E-E-E-ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE — — G-GAS — GAS MAIN, VALVE & GAS LINE MARKER WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE SANITARY SEWER, CLEANOUT & MANHOLE STORM SEWER, CLEANOUT & MANHOLE ■ ⊕ ⊙ Y.D. SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN

WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE SPOT ELEVATION ------670 ------ CONTOUR LINE ☆ STREET LIGHT

SIGN CONC. CONCRETE

REFERENCE DRAWINGS

CITY OF ROCHESTER HILLS GIS MAP CITY OF ROCHESTER HILLS GIS MAP CITY OF ROCHESTER HILLS GIS MAP

NOT RECEIVED
CONSUMERS ENERGY MAP# 03-61-14-3, DATED 01/10/19

CONSUMERS ENERGY MAP# 03-61-14-3, DATED 01/10/19
NO FACILITIES IN THE AREA
COMCAST SERVICE MAP RECEIVED 02/19/19
FIRM MAP 26125C0392F, DATED 09/29/06, ZONE 'X'
MDOT ROAD PLANS, VARIOUS PROJECTS
BOUNDARY/TOPOGRAPHIC SURVEY, COMERICA BANK, NF #M148, DATED 12/21/20
PARTIAL GRADING/UTILITY PLAN, COMERICA BANK, UNDATED





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.

ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STREET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

PROJECT TITLE

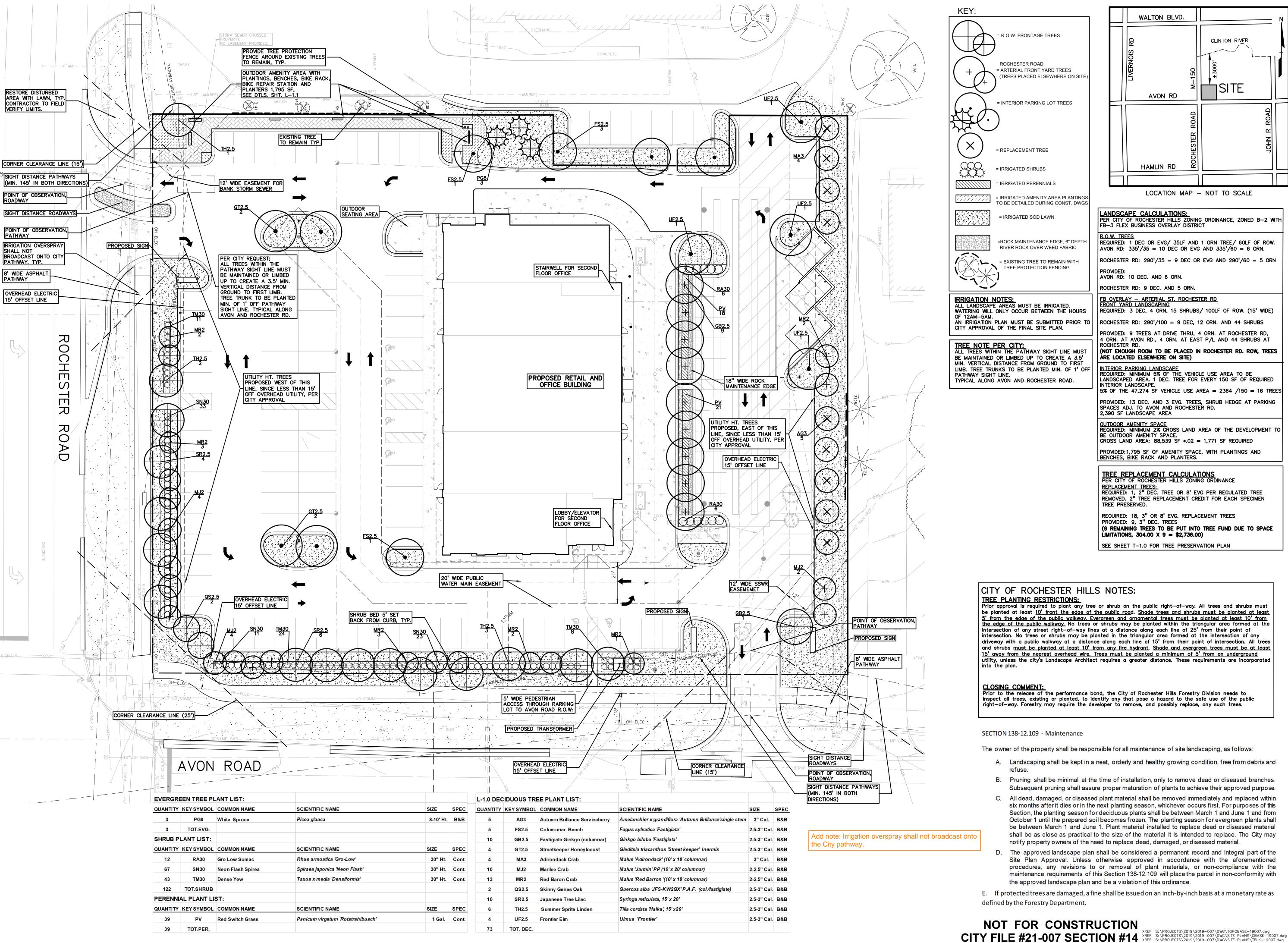
RETAIL REDEVELOPMENT N.E.C. ROCHESTER ROAD & AVON ROAD CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MI

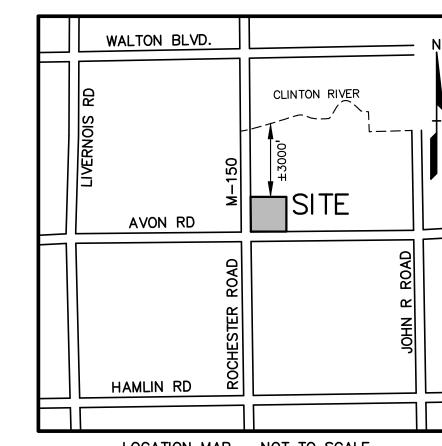
REVISIONS CITY COMMENTS CITY COMMENTS 7/21/21

ORIGINAL ISSUE DATE: MAY 10, 2021 DRAWING TITLE

SIGHT **DISTANCE PLAN**

PEA JOB NO.	2019-007
P.M.	RLS
DN.	ВА
DES.	PB
DRAWING NUMBER:	





LOCATION MAP - NOT TO SCALE

t: 844.813.2949 www.peagroup.com

LANDSCAPE CALCULATIONS:
PER CITY OF ROCHESTER HILLS ZONING ORDINANCE, ZONED B-2 WITH FB-3 FLEX BUSINESS OVERLAY DISTRICT

REQUIRED: 1 DEC OR EVG/ 35LF AND 1 ORN TREE/ 60LF OF ROW. AVON RD: 335'/35 = 10 DEC OR EVG AND 335'/60 = 6 ORN. ROCHESTER RD: 290'/35 = 9 DEC OR EVG AND 290'/60 = 5 ORN

AVON RD: 10 DEC. AND 6 ORN. ROCHESTER RD: 9 DEC. AND 5 ORN.

2,390 SF LANDSCAPE AREA

FB OVERLAY — ARTERIAL ST. ROCHESTER RD FRONT YARD LANDSCAPING

REQUIRED: 3 DEC, 4 ORN, 15 SHRUBS/ 100LF OF ROW. (15' WIDE) ROCHESTER RD: 290'/100 = 9 DEC, 12 ORN. AND 44 SHRUBS PROVIDED: 9 TREES AT DRIVE THRU, 4 ORN. AT ROCHESTER RD,

4 ORN. AT AVON RD., 4 ORN. AT EAST P/L AND 44 SHRUBS AT (NOT ENOUGH ROOM TO BE PLACED IN ROCHESTER RD. ROW, TREES ARE LOCATED ELSEWHERE ON SITE)

INTERIOR PARKING LANDSCAPE
REQUIRED: MINIMUM 5% OF THE VEHICLE USE AREA TO BE LANDSCAPED AREA. 1 DEC. TREE FOR EVERY 150 SF OF REQUIRED INTERIOR LANDSCAPE. 5% OF THE 47,274 SF VEHICLE USE AREA = 2364 /150 = 16 TREES PROVIDED: 13 DEC. AND 3 EVG. TREES, SHRUB HEDGE AT PARKING SPACES ADJ. TO AVON AND ROCHESTER RD.

OUTDOOR AMENITY SPACE
REQUIRED: MINIMUM 2% GROSS LAND AREA OF THE DEVELOPMENT TO BE OUTDOOR AMENITY SPACE. GROSS LAND AREA: 88,539 SF *.02 = 1,771 SF REQUIRED PROVIDED: 1.795 SF OF AMENITY SPACE. WITH PLANTINGS AND BENCHES, BIKE RACK AND PLANTERS.

TREE REPLACEMENT CALCULATIONS
PER CITY OF ROCHESTER HILLS ZONING ORDINANCE REPLACEMENT TREES: REQUIRED: 1, 2" DEC. TREE OR 8' EVG PER REGULATED TREE REMOVED. 2" TREE REPLACEMENT CREDIT FOR EACH SPECIMEN TREE PRESERVED.

REQUIRED: 18, 3" OR 8' EVG. REPLACEMENT TREES PROVIDED: 9, 3" DEC. TREES (9 REMAINING TREES TO BE PUT INTO TREE FUND DUE TO SPACE LIMITATIONS, $304.00 \times 9 = $2,736.00$

SEE SHEET T-1.0 FOR TREE PRESERVATION PLAN

CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDE

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

JTILITIES AS SHOWN ON THIS DRAWING ARE ONLY PPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR

ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STRÉET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

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<mark>' front the edge of the public road. Shade trees and shrubs must be planted at leas</mark>t 5' from the edge of the public walkway. Evergreen and ornamental trees must be planted at least 10' from the edge of the public walkway. 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. All trees and shrubs <u>must be planted at least 10' from any fire hydrant</u>, <u>Shade and evergreen trees must be at least</u> 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

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.

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
- 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 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 ordinance.
- E. 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. NOT FOR CONSTRUCTION

PROJECT TITLE **RETAIL**

REDEVELOPMENT N.E.C. ROCHESTER ROAD & AVON ROAD

REVISIONS CITY COMMENTS CITY COMMENTS 7/21/21

ORIGINAL ISSUE DATE: MAY 10, 2021

DRAWING TITLE

LANDSCAPE **PLAN**

PEA JOB NO. 2019-007 DES. DRAWING NUMBER:

LANDSCAPING

PLAN				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	ITEM PRICE
1,705	S.Y.	SOD LAWN	\$6.00	\$10,230.00
23	EA.	SUB CANOPY ORNAMENTAL TREES AT 2" CAL.	\$350.00	\$8,050.00
50	EA.	DECIDUOUS TREES AT 2.5" CAL.	\$550.00	\$27,500.00
3	EA.	EVERGREEN TREES AT 8' HT.	\$450.00	\$1,350.00
17	C.Y.	MULCH 3"	\$50.00	\$850.00
34	C.Y.	PLANT MIX FOR BEDS (6" DEPTH)	\$55.00	\$1,870.00
760	L.F.	ALUMINUM EDGING	\$5.00	\$3,800.00
10	C.Y.	RIVER ROCK	\$85.00	\$850.00
39	EA.	PERENNIALS	\$20.00	\$780.00
122	EA.	SHRUBS	\$55.00	\$6,710.00
9	EA.	TREES TO BE PAID INTO THE TREE FUND	\$304.00	\$2,736.00
1	AC.	IRRIGATION (COMMERCIAL BUILDING)	\$21,000.00	\$21,000.00
1	25%	CONTINGENCY	\$19,070.00	\$19,070.00
		TOTAL LANDSCAPING		\$104,796.00

NOTE: ESTIMATE DOES NOT INCLUDE SITE FURNITURE, AND PLANTINGS WITHIN AMENITY AREA.

- EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
- UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO
- NURSERYMEN STANDARD FOR NURSERY STOCK. ALL
- 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.
- ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT
- 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 BE
- 9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS,
- 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.
- 4. 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 4" COMPACTED
- REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY
- 7. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING



PHONE: 800-521-2546 COLOR: BLACK, POWDER COATED, OWNER TO SELECT/APPROVE COLOR QUANTITY: 2, QTY. TO BE APPROVED BY OWNER



BIKE FIX IT STATION AND PUMP:

BY: DERO OR APPROVED EQUAL

COLOR: BLACK, POWDER COATED, OWNER TO

PHONE: 888-337-6729

SELECT/APPROVE COLOR

STATION: FIX IT, QTY 1

PUMP: AIR KIT, QTY 1

BIKE RACK: BRCS-103 (3 LOOPS, 5 BIKES) (CYCLE SENTRY COLLECTION) SURFACE MOUNT BY: VICTOR STANLEY OR APPROVED EQUAL PHONE: 800-368-2573

COLOR: POWDER COAT GALV. BLACK OWNER TO SELECT/APPROVE COLOR QUANTITY: 1



PLANTER: URBAN LONG PLANTER BY: VICTOR STANLEY OR APPROVED EQUAL PHONE: 800-368-2573

OWNER TO SELECT/APPROVE COLOR QUANTITY: 3 (NOT RECOMMENDED TO REMAIN OUTSIDE DURING WINTER MONTHS)





- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE 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 RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB
- ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO.
- TRUNKS AND SYMMETRICAL CROWNS.

- 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.

- 16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS,



BENCH: 72" PLAINWELL, ALUMINUM BY: LANDSCAPE FORMS OR APPROVED EQUAL



(FIBERGLASS, 12" WIDE X 60" LONG X 24" HT.)

COLOR: MATT BLACK

- COMPACTED SUBGRADE SPECIFICATIONS FOR LANDSCAPE BED EDGING: LANDSCAPE BED EDGING SHALL BE ALUMINUM AS MANUFACTURED BY PERMALOC 1.800.356.9660 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 급" THICK X 5 ½" DEPTH WHEN ADJ. TO ROCK, FINISH: BLACK DURAFLEX MEETING AAMA 2603 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

PLANT PERENNIALS EQUAL DISTANCE IN

UNLESS NOTED OR GRAPHICALLY SHOWN

3" SHREDDED BARK MULCH. DO NOT

PILE MULCH AGAINST PLANT STEMS

SHOVEL CUT EDGE OR ALUMINUM

EDGING AS INDICATED ON PLAN

- SPECIFIED PLANTING MIX

NOTE: REMOVE ALL CONTAINERS PRIOR

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

TAMPED SOIL

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

CONTINUOUS RIM

— FINISH GRADE

ALL SPACING IS TO BE TRIANGULAR

ALL DIRECTIONS

OTHERWISE

TO PLANTING

PERMALOC ALUMINUM EDGING OR APPROVED

EQUAL WITH BLACK FINISH

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

LUMINUM EDGE DETAIL

VARIES PER SPECIES SEE

SPECIES SEE

PLAN FOR

QUANTITY

PLAN FOR

QUANTITY

PLAN VIEW

SECTION VIEW

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

VARIES ON CONTAINER

SHRUB PLANTING DETAIL

OR BALL SIZE

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

PERENNIAL PLANTING DETAIL

TREE PROTECTION DETAIL SCALE: 1'' = 3'-0''

STAKING/GUYING

LOCATION

MIN. TYP.

SCALE: 1'' = 3'-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

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

LINE OF PROTECTED TREES

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

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

4'HIGH PROTECTIVE FENCING WITH STEEL POSTS - 10' O.C. - EXISTING SOIL

GROUP

t: 844.813.2949

www.peagroup.com

ARCHITECT

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T-POSTS DRIVEN A MIN. OF 18" DEEP

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

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

PLANT SO THAT TOP OF ROOT BALL IS

POORLY DRAINED SOILS

FLUSH TO GRADE OR 1-2" HIGHER IF IN

STAKE JUST BELOW BRANCHES WITH 2"-3"

WIDE NYLON OR PLASTIC STRAPS. CONNECT

FLEXIBILITY. REMOVE AFTER (1) ONE YEAR.

THREE 2"X2" HARDWOOD STAKES OR STEEL

FROM TREE TO STAKE AND ALLOW FOR

(DO NOT USE WIRE & HOSE)

FIRMLY INTO SUBGRADE PRIOR TO

PLACE ROOTBALL ON UNEXCAVATED OR

PROJECT TITLE RETAIL REDEVELOPMENT N.E.C. ROCHESTER ROAD & AVON ROAD

6/16/21

7/21/21

2019-007

RLS

REVISIONS

CITY COMMENTS

CITY COMMENTS

ORIGINAL ISSUE DATE:

LANDSCAPE

DETAILS

MAY 10, 2021

DRAWING TITLE

PEA JOB NO.

P.M.

DN.

BIRMINGHAM, MICHIGAN, 48009

MATERIAL AT TOP & BOTTOM, REMOVE AFTER FROM TREE TO STAKE AND ALLOW FOR FLEXIBILITY. REMOVE AFTER (1) ONE YEAR. 120° STAKING/GUYING <u>LOCATION</u>

DECIDUOUS TREE PLANTING DETAIL

EVERGREEN TREE PLANTING DETAIL

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

FIRST WINTER 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

(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

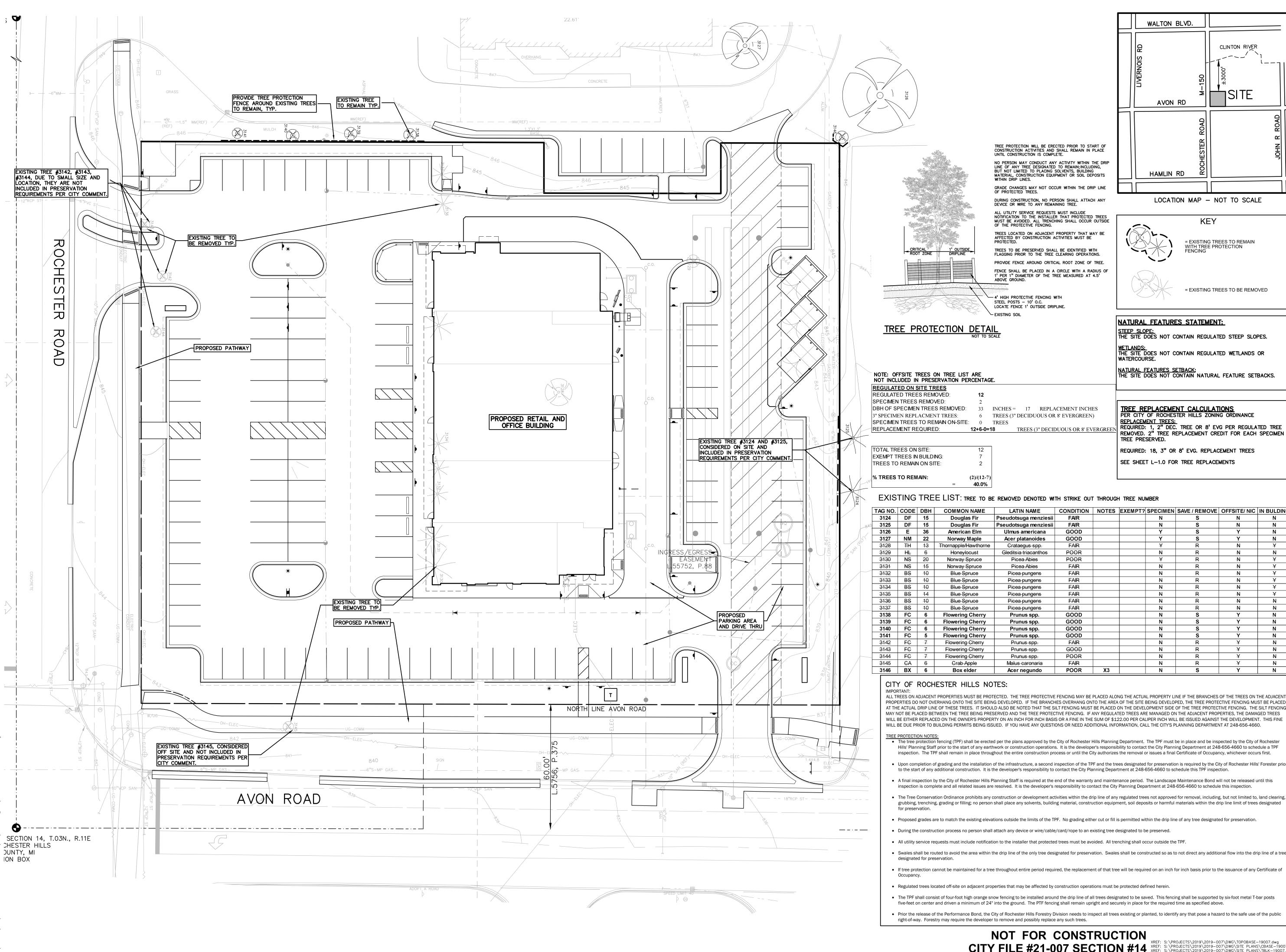
SPECIFIED PLANTING MIX, WATER & TAMP TO - REMOVE AIR POCKETS, AMEND SOIL PER SITE CONDITIONS & TREE REQUIREMENTS

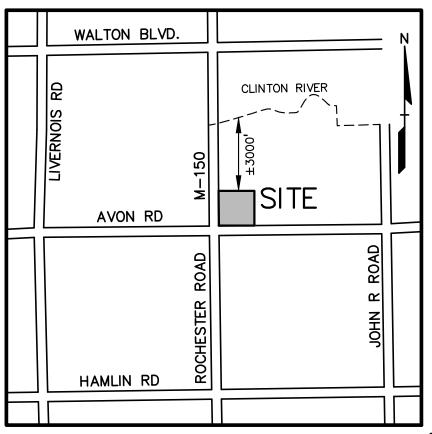
-FINISH GRADE

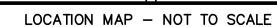
EXPOSE ROOT FLARE OF TREE. CONTRACTOR MAY HAVE TO REMOVE EXCESS SOIL FROM - TOP OF ROOTBALL. REMOVE ALL BURLAP FROM TOP 3 OF ROOTBALL. DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE PLACE ROOTBALL ON UNEXCAVATED OR

NOT FOR CONSTRUCTION CITY FILE #21-007 SECTION #14 XREF: S:\PROJECTS\2019\2019-007\DWG\SITE PLANS\CBASE-19007.dwg
XREF: S:\PROJECTS\2019\2019-007\DWG\SITE PLANS\TBLK-19007.dwg

DES. DRAWING NUMBER:

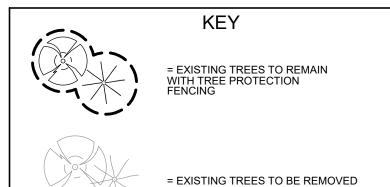








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NATURAL FEATURES STATEMENT:

WATERCOURSE.

STEEP SLOPE: THE SITE DOES NOT CONTAIN REGULATED STEEP SLOPES. | WETLANDS: | THE SITE DOES NOT CONTAIN REGULATED WETLANDS OR

NATURAL FEATURES SETBACK: THE SITE DOES NOT CONTAIN NATURAL FEATURE SETBACKS.

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NOT INCLUDED IN PRESERVATION PERCENTAGE.

DBH OF SPECIMEN TREES REMOVED: SPECIMEN TREES TO REMAIN ON-SITE: 0 TREES

33 INCHES = 17 REPLACEMENT INCHES 6 TREES (3" DECIDUOUS OR 8' EVERGREEN) 12+6-0=18 TREES (3" DECIDUOUS OR 8' EVERGREE

- 4' HIGH PROTECTIVE FENCING WITH

LOCATE FENCE 1' OUTSIDE DRIPLINE.

STEEL POSTS - 10' O.C.

EXISTING SOIL

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.

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

TREE REPLACEMENT CALCULATIONS PER CITY OF ROCHESTER HILLS ZONING ORDINANCE

REPLACEMENT TREES:
REQUIRED: 1, 2" DEC. TREE OR 8' EVG PER REGULATED TREE REMOVED. 2" TREE REPLACEMENT CREDIT FOR EACH SPECIMEN TREE PRESERVED.

REQUIRED: 18, 3" OR 8' EVG. REPLACEMENT TREES

SEE SHEET L-1.0 FOR TREE REPLACEMENTS

CLIENT

EXISTING TREE LIST: TREE TO BE REMOVED DENOTED WITH STRIKE OUT THROUGH TREE NUMBER

	TAG NO.	CODE	DBH	COMMON NAME	LATIN NAME	CONDITION	NOTES	EXEMPT?	SPECIMEN	SAVE / REMOVE	OFFSITE/ NIC	IN BULDING
	3124	DF	15	Douglas Fir	Pseudotsuga menziesii	FAIR			N	S	N	N
40	3125	DF	15	Douglas Fir	Pseudotsuga menziesii	FAIR			N	S	N	N
	3126	E	36	American Elm	Ulmus americana	GOOD			Υ	S	Υ	N
	3127	NM	22	Norway Maple	Acer platanoides	GOOD			Υ	S	Υ	N
	3128	ŦĦ	13	Thornapple/Hawthorne	Crataegus spp.	FAIR			¥	₽	N	¥
	3129	ĦĿ	6	Honeylocust	Gleditsia triacanthos	POOR			N	R	N	И
	3130	NS	20	Norway Spruce	Picea Abies	POOR			¥	₽	N	¥
	3131	NS	15	Norway Spruce	Picea Abies	FAIR			N	R	N	¥
	3132	BS	10	Blue Spruce	Picea pungens	FAIR			N	R	N	¥
	3133	BS	10	Blue Spruce	Picea pungens	FAIR			N	R	Ŋ	¥
	3134	BS	10	Blue Spruce	Picea pungens	FAIR			N	R	N	¥
	3135	BS	14	Blue Spruce	Picea pungens	FAIR			N	R	N	¥
	3136	BS	10	Blue Spruce	Picea pungens	FAIR			N	R	N	H
	3137	BS	10	Blue Spruce	Picea pungens	FAIR			N	₽	N	Н
	3138	FC	6	Flowering Cherry	Prunus spp.	GOOD			N	S	Υ	N
	3139	FC	6	Flowering Cherry	Prunus spp.	GOOD			N	S	Υ	N
	3140	FC	6	Flowering Cherry	Prunus spp.	GOOD			N	S	Υ	N
	3141	FC	5	Flowering Cherry	Prunus spp.	GOOD			N	S	Υ	N
	3142	FC	7	Flowering Cherry	Prunus spp.	FAIR			N	R	¥	N
	3143	FC	7	Flowering Cherry	Prunus spp.	GOOD			N	R	¥	И
	3144	FC	7	Flowering Cherry	Prunus spp.	POOR			N	R	¥	N
	3145	CA	6	Crab Apple	Malus caronaria	FAIR			N	R	¥	N
ı			_							_		

CITY OF ROCHESTER HILLS NOTES:

ALL TREES ON ADJACENT PROPERTIES MUST BE PROTECTED. THE TREE PROTECTIVE FENCING MAY BE PLACED ALONG THE ACTUAL PROPERTY LINE IF THE BRANCHES OF THE TREES ON THE ADJACENT PROPERTIES DO NOT OVERHANG ONTO THE SITE BEING DEVELOPED. IF THE BRANCHES OVERHANG ONTO THE AREA OF THE SITE BEING DEVELOPED, THE TREE PROTECTIVE FENCING MUST BE PLACED AT THE ACTUAL DRIP LINE OF THESE TREES. IT SHOULD ALSO BE NOTED THAT THE SILT FENCING MUST BE PLACED ON THE DEVELOPMENT SIDE OF THE TREE PROTECTIVE FENCING. THE SILT FENCING MAY NOT BE PLACED BETWEEN THE TREE BEING PRESERVED AND THE TREE PROTECTIVE FENCING. IF ANY REGULATED TREES ARE MANAGED ON THE ADJACENT PROPERTIES, THE DAMAGED TREES WILL BE EITHER REPLACED ON THE OWNER'S PROPERTY ON AN INCH FOR INCH BASIS OR A FINE IN THE SUM OF \$122.00 PER CALIPER INCH WILL BE ISSUED AGAINST THE DEVELOPMENT. THIS FINE WILL BE DUE PRIOR TO BUILDING PERMITS BEING ISSUED. IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION, CALL THE CITY'S PLANNING DEPARTMENT AT 248-656-4660.

- The tree protection fencing (TPF) shall be erected per the plans approved by the City of Rochester Hills Planning Department. The TPF must be in place and be inspected by the City of Rochester Hills' Planning Staff prior to the start of any earthwork or construction operations. It is the developer's responsibility to contact the City Planning Department at 248-656-4660 to schedule a TPF inspection. The TPF shall remain in place throughout the entire construction process or until the City authorizes the removal or issues a final Certificate of Occupancy, whichever occurs first.
- to the start of any additional construction. It is the developer's responsibility to contact the City Planning Department at 248-656-4660 to schedule this TPF inspection. • A final inspection by the City of Rochester Hills Planning Staff is required at the end of the warranty and maintenance period. The Landscape Maintenance Bond will not be released until this
- inspection is complete and all related issues are resolved. It is the developer's responsibility to contact the City Planning Department at 248-656-4660 to schedule this inspection.
- The Tree Conservation Ordinance prohibits any construction or development activities within the drip line of any regulated trees not approved for removal, including, but not limited to, land clearing, grubbing, trenching, grading or filling; no person shall place any solvents, building material, construction equipment, soil deposits or harmful materials within the drip line limit of trees designated
- Proposed grades are to match the existing elevations outside the limits of the TPF. No grading either cut or fill is permitted within the drip line of any tree designated for preservation.
- During the construction process no person shall attach any device or wire/cable/card/rope to an existing tree designated to be preserved.
- All utility service requests must include notification to the installer that protected trees must be avoided. All trenching shall occur outside the TPF.
- Swales shall be routed to avoid the area within the drip line of the only tree designated for preservation. Swales shall be constructed so as to not direct any additional flow into the drip line of a tree
- If tree protection cannot be maintained for a tree throughout entire period required, the replacement of that tree will be required on an inch for inch basis prior to the issuance of any Certificate of
- Regulated trees located off-site on adjacent properties that may be affected by construction operations must be protected defined herein.
- The TPF shall consist of four-foot high orange snow fencing to be installed around the drip line of all trees designated to be saved. This fencing shall be supported by six-foot metal T-bar posts five-feet on center and driven a minimum of 24" into the ground. The PTF fencing shall remain upright and securely in place for the required time as specified above.
- Prior 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.

ROCHESTER AVON PARTNERS, LLC 251 EAST MERRILL STRÉET, SUITE #205 BIRMINGHAM, MICHIGAN, 48009

PROJECT TITLE **RETAIL REDEVELOPMEN**

N.E.C. ROCHESTER ROAD & AVON ROAD

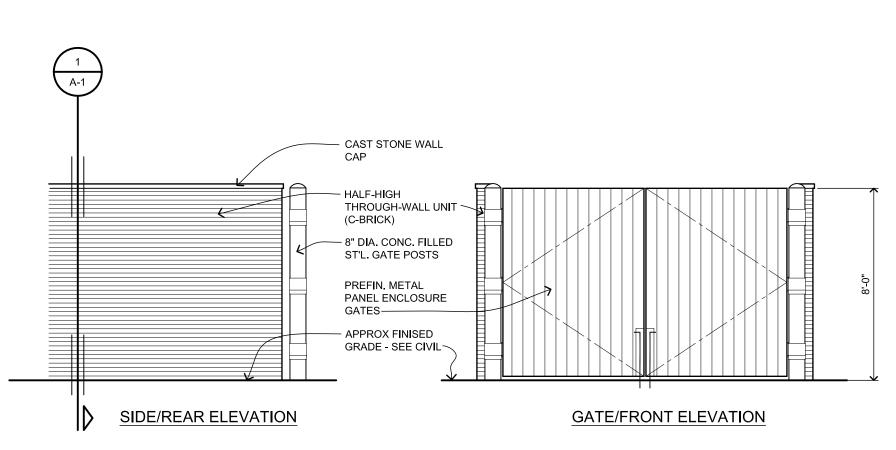
REVISIONS	
CITY COMMENTS	6/16/21
CITY COMMENTS	7/21/21

ORIGINAL ISSUE DATE: MAY 10, 2021

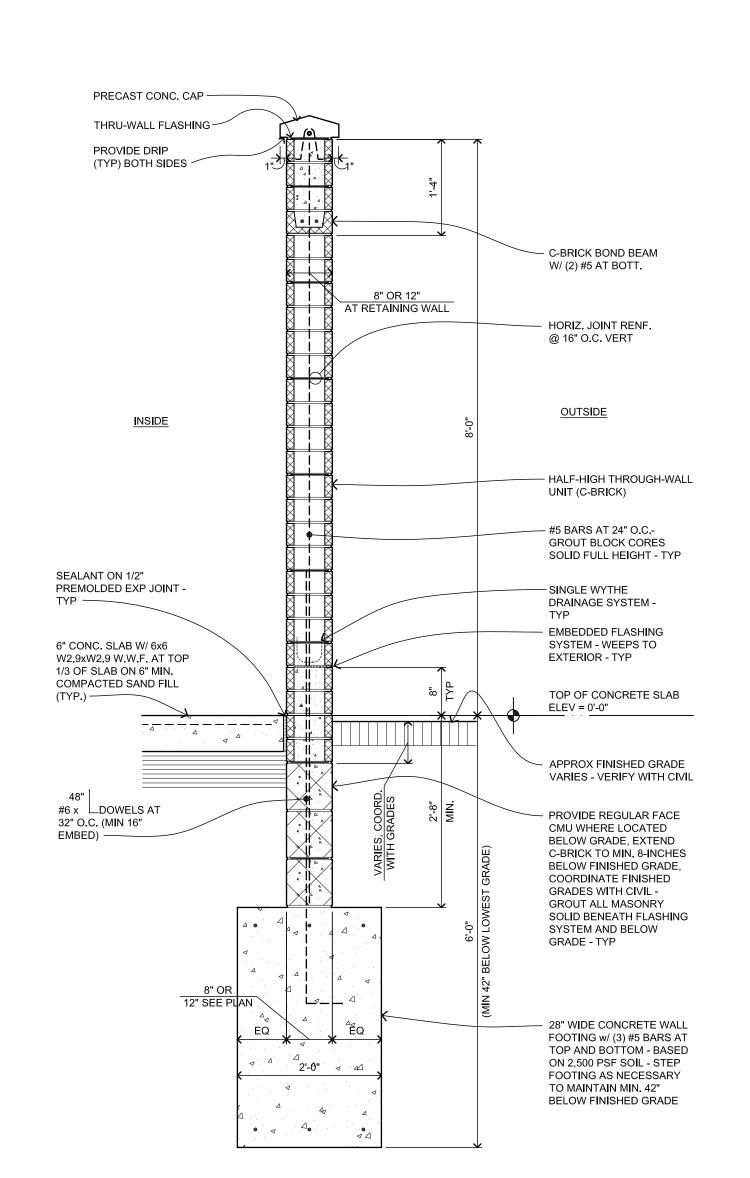
DRAWING TITLE

TREE PRESERVATION PLAN

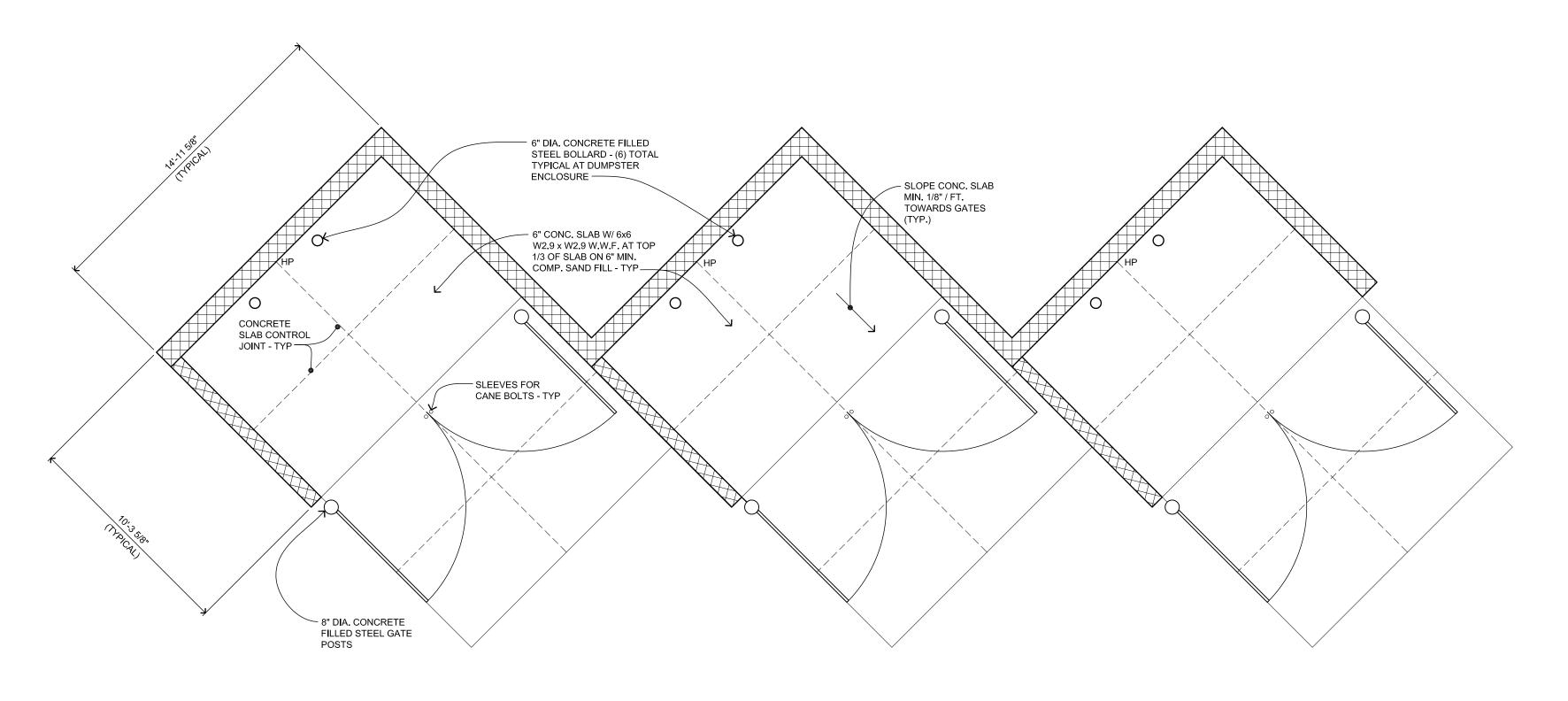
PEA JOB NO.	2019-007
P.M.	RLS
DN.	JE
DES.	JE
DRAWING NUMBER:	



Dumpster Enclosure Elevations 1/4" = 1'-0"



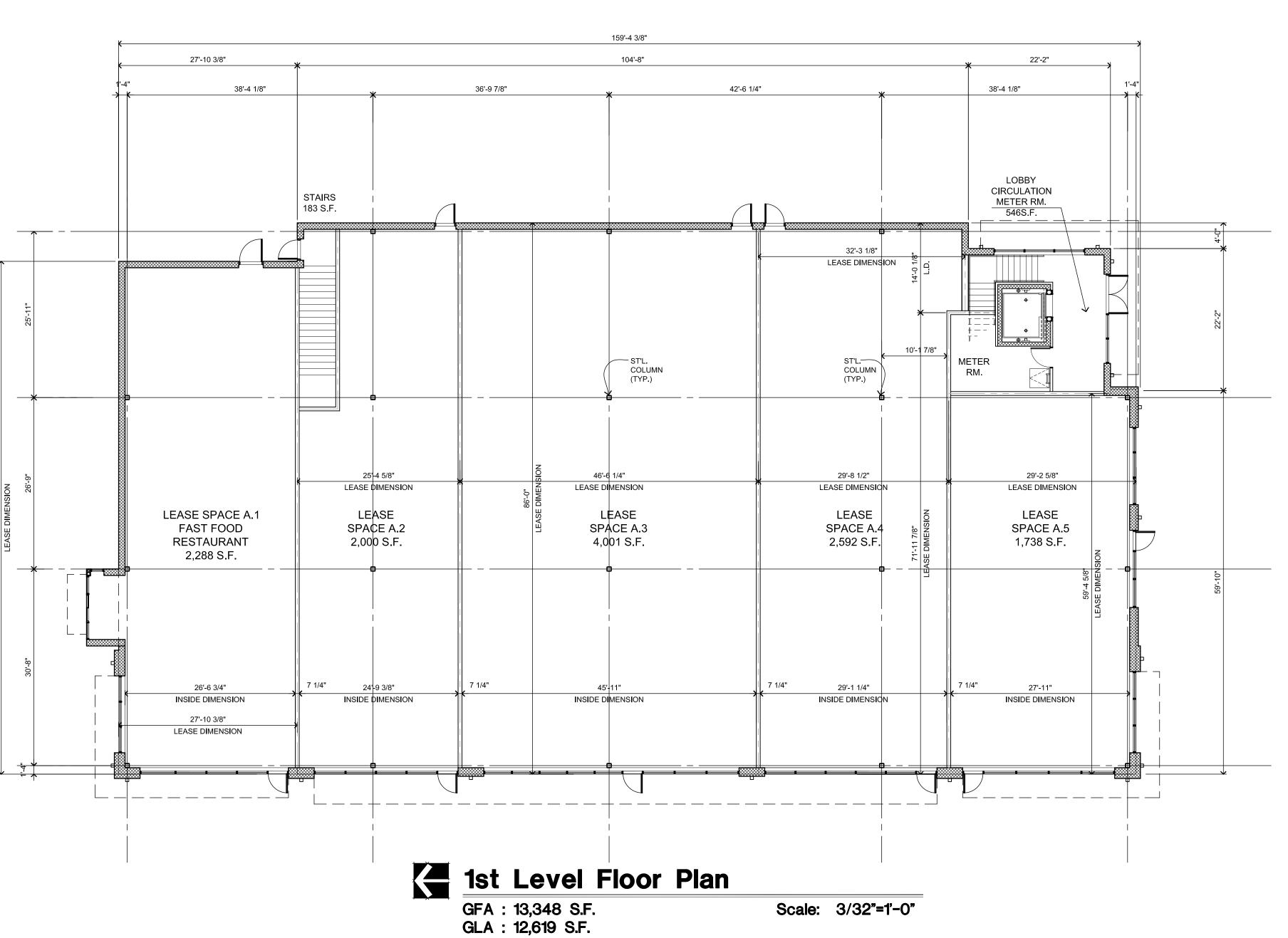
Dumpster Enclosure Wall Section 3/4" = 1'-0"



Dumpster Enclosure Plan View

Scale: 1/4"=1'-0"

SEE SITE PLAN FOR ORIENTATION AND LOCATION, TYP.



issued for: SITE PLAN REVIEW: 05 MAY 2021

project:

velopment Commercial

ARCHITECTS

32500 TELEGRAPH ROAD SUITE 250 BINGHAM FARMS, MICHIGAN 48025-2404

PH 248.540.7700 FX 248.540.2710 www.rogvoy.com



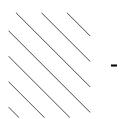
drawing:

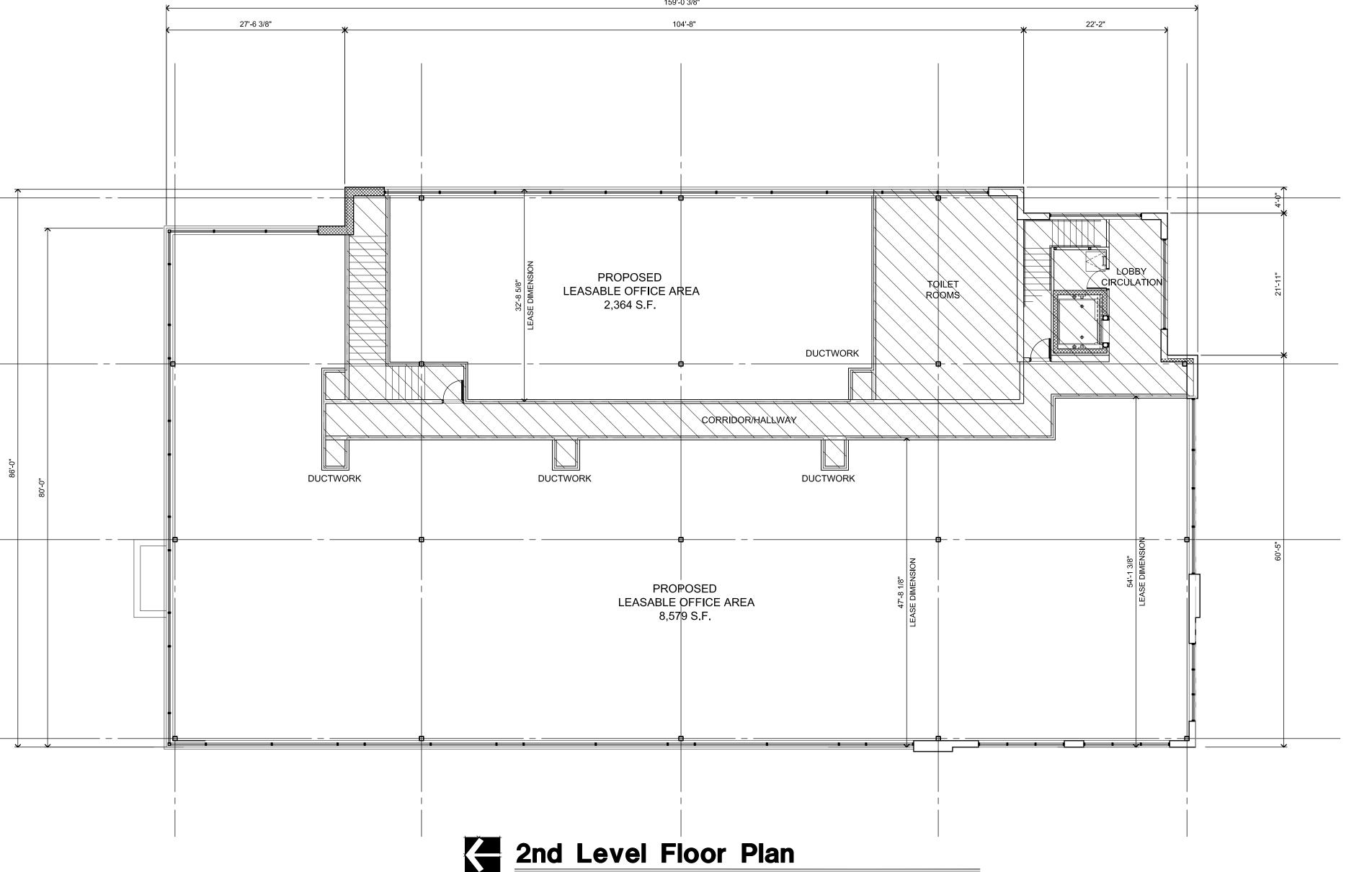
First Level Floor Plan

DO NOT SCALE DRAWING

issue date: drawn: KL checked: MD approved: MD

Scale: 3/32"=1'-0"





GFA: 13,288 S.F.

GLA: 10,943 S.F.

issued for:

OWNER REVIEW: 17 SEPT. 2020 OWNER REVIEW: Ø1 FEB. 2021 OWNER REVIEW: 11 FEB. 2021 SITE PLAN REVIEW: Ø5 MAY 2021 SITE PLAN REVIEW: 15 JUN. 2021 SITE PLAN REVIEW: 21 JUL. 2021

velopment ommerc

ARCHITECT S

32500 TELEGRAPH ROAD SUITE 250 BINGHAM FARMS, MICHIGAN 48025-2404

PH 248.540.7700 FX 248.540.2710 www.rogvoy.com

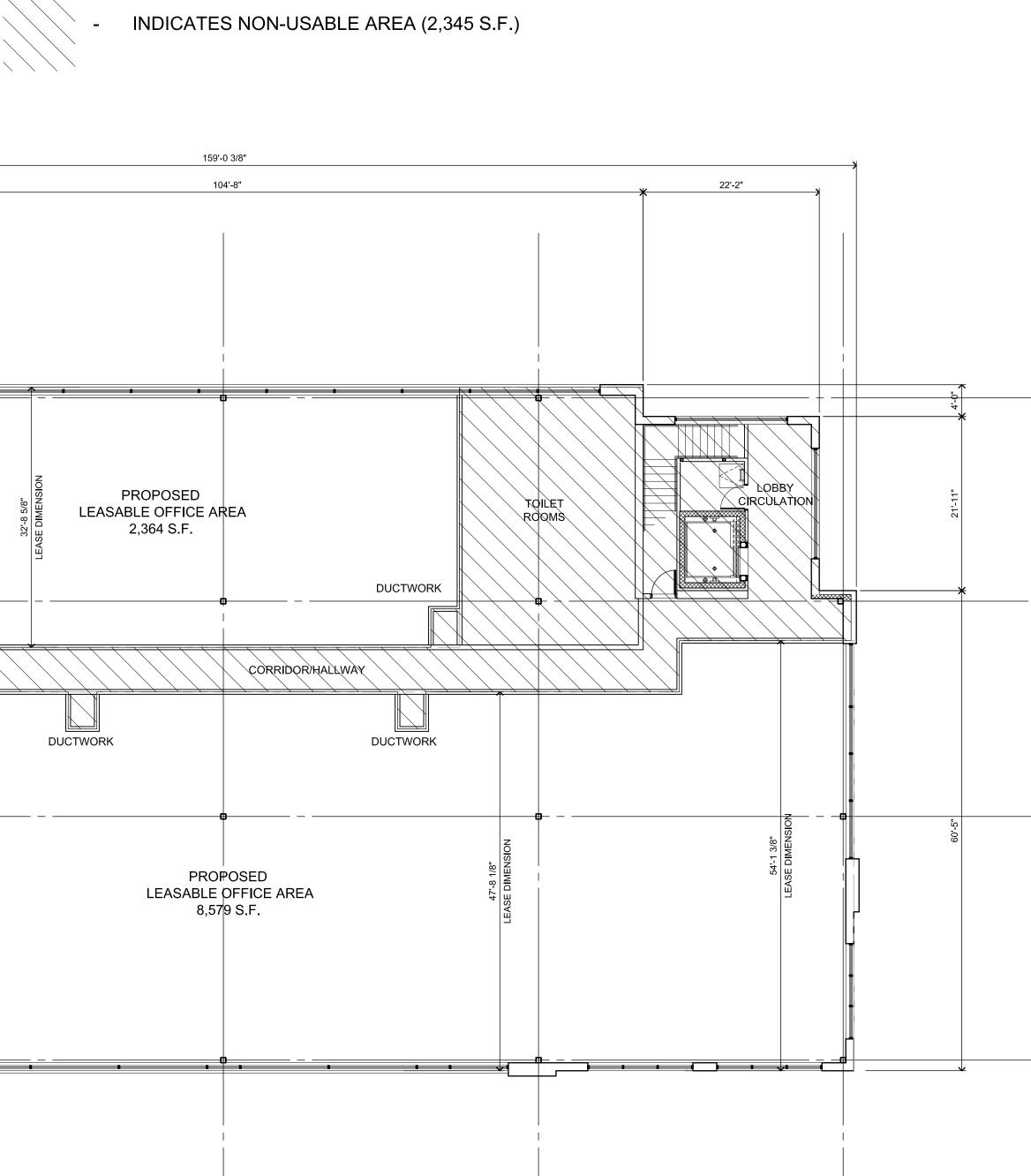


drawing:

Second Level Floor Plan

DO NOT SCALE DRAWING

issue date: drawn: KL checked: MD approved: MD



Scale: 3/32"=1'-0"

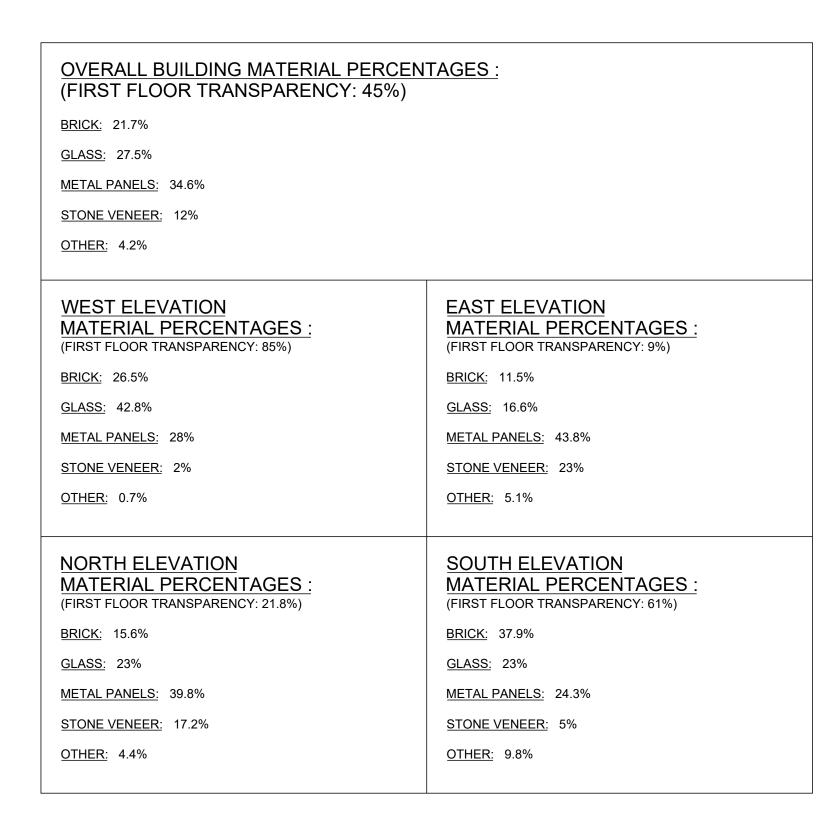
ALUMINUM WALL PANEL: ALUCABOND COLOR: 'CHAMPAGNE METALLIC'

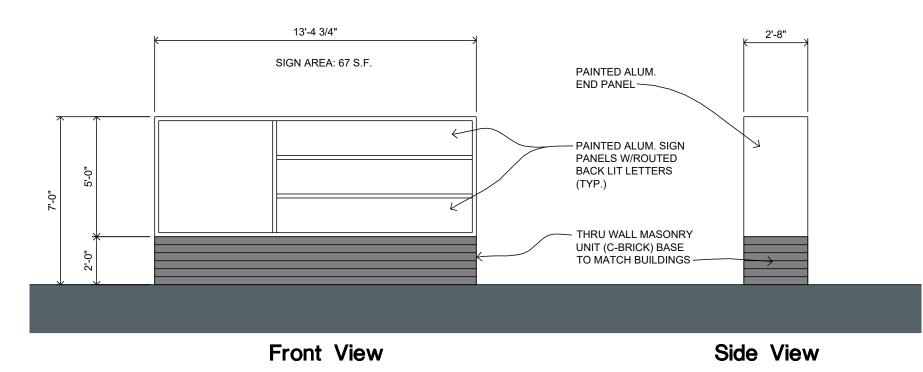


BRICK: ALUCABOND COLOR: BRICK TECH ENDICOTT COLOR: 'MANGANESE IRON SPOT'

> First floor non-residential transparency must equal 70% measured between 2-8 ft. above the sidewalk. The Planning Commission can modify this requirement per Section 138-8.604.

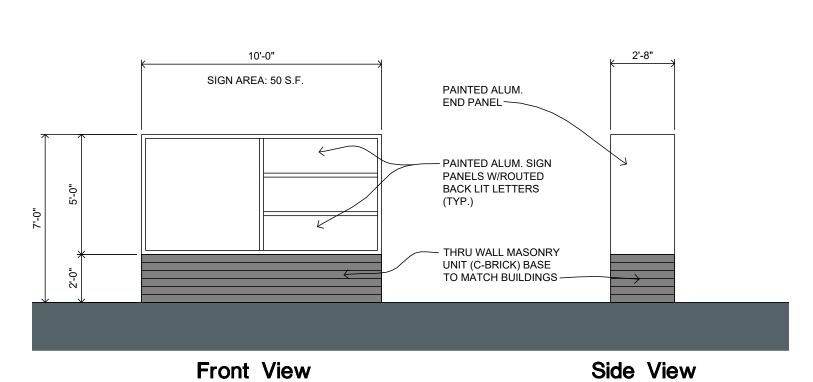
STONE: CULTURED STONE COUNTRY LEDGESTONE COLOR: 'ASHFALL'





Monument Sign - Avon Rd.

Scale: 1/4"=1'-0"

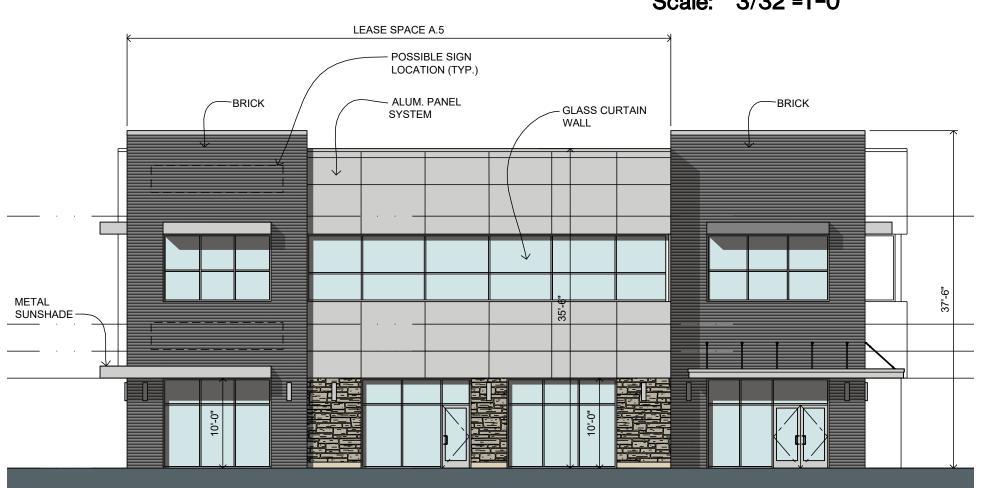


Monument Sign - Rochester Rd.

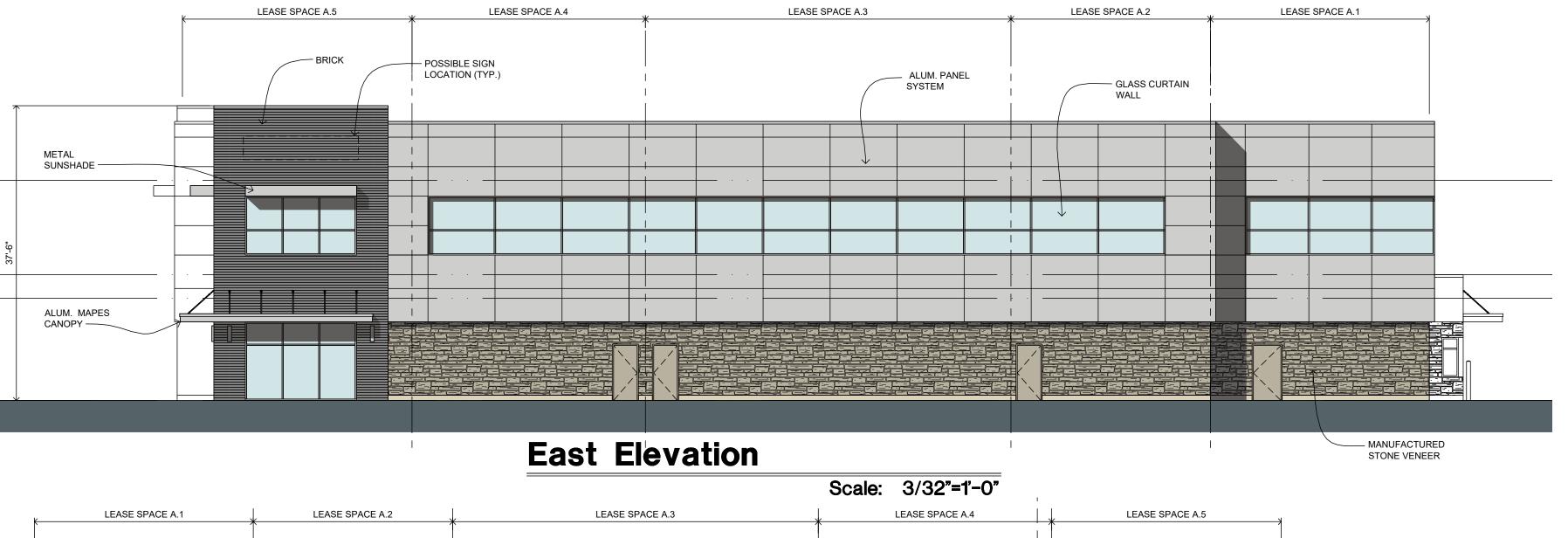
Scale: 1/4"=1'-0"

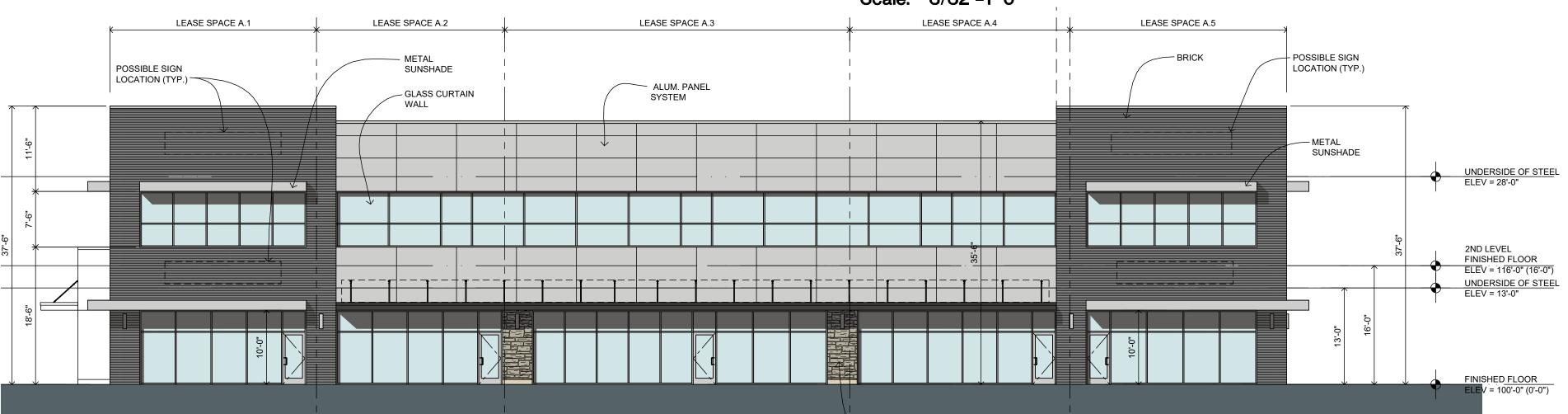


Scale: 3/32"=1'-0"



South Elevation Scale: 3/32"=1'-0"





West Elevation

Scale: 3/32"=1'-0"

- MANUFACTURED STONE VENEER

© COPYRIGHT 2015: ROGVOY ARCHITECTS, P.C.

issued for: OWNER REVIEW 17 SEPT. 2020 OWNER REVIEW 01 FEB. 2021 OWNER REVIEW | I FEB. 2021 OWNER REVIEW 15 FEB. 2021 OWNER REVIEW 17 FEB. 2021 OWNER REVIEW 22 APR. 2021 SITE PLAN REVIEW 05 MAY 2021 REVISED 07 JUN. 2021 SITE PLAN REVIEW 15 JUN. 2021

project:

velopment ommercia

ROGVOY ARCHITECTS

> 32500 TELEGRAPH ROAD SUITE 250 BINGHAM FARMS, MICHIGAN 48025-2404

PH 248.540.7700 FX 248.540.2710



drawing:

Conceptual Bldg. Elevations

DO NOT SCALE DRAWING

checked: MD approved:

MLS	EA

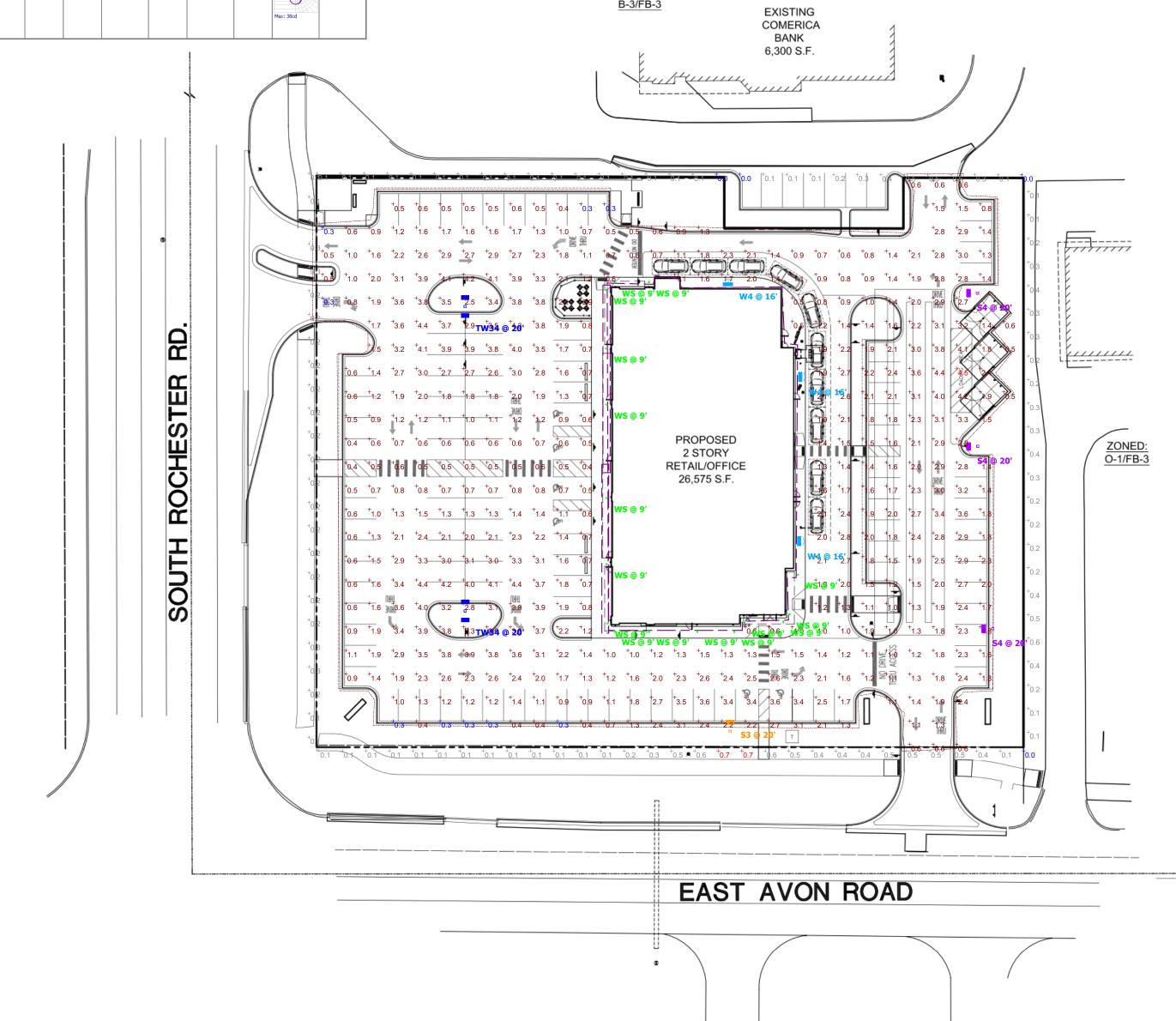
chester Hills 19026 LED Site Layout

			1											
	ASL1- 160L- 100- 4K7-3- -U		HUBBELL OUTDOOR	ASL1-160L-100-4K7-3- U		B-70-CRI	1	ASL1-160L-100- -4K7-3.ies	12012	1	0.92	87.6	100%	Max: 11519cd
	ASL1- 160L- 115- 4K7- 4W-U		HUBBELL OUTDOOR	ASL1-160L-115-4K7-4W -U		B-70-CRI	1	ASL1-160L-115- -4K7-4W.ies	15234	1	0.92	109.7	100%	Max: 12966cd
	S4	3	HUBBELL OUTDOOR	ASL1-160L-100-4K7-4W -U		B-70-CRI	1	ASL1-160L-100- -4K7-4W.ies	11788	1	0.92	87.6	100%	Max: 10170cd
	S3	1	HUBBELL OUTDOOR	ASL1-160L-100-4K7-3- U		B-70-CRI	1	ASL1-160L-100- -4K7-3.ies	12012	1	0.92	87.6	100%	Max: 11519cd
	W4	3	HUBBELL OUTDOOR	LNC4-36L-4K-035-3-U	Large LNC4 Litepak	C-70-CRI	1	LNC4-36L-4K- 035-3-U.ies	4632	1	0.92	40.3	100%	Max: 3089cd
$\hat{\Box}$	WS	16	Ultralights Lighting, 320 S Plumer Ave, Tucson, AZ 85719	19414	Ultralights Lighting - Wall sconce luminaire. Product ID: 19413 Brown formed steel housing with flat white plastic lens top and bottom. 48 LEDs with single row of 24 mounted at top and at bottom. One Fulham driver. Model: T1T11200700-18CA Operating at 120v AC and 60 Hz.		48	19414_16.8W- Ultralights.ies	3	1	0.5	18.8	100%	Max: 38cd

	Statistics						
	Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Proporty Line L 0.2 fc 0.7 fc 0.0 fc N/A N/A	Calc Zone #1	+	1.8 fc	4.5 fc	0.3 fc	15.0:1	6.0:1
Property Line T 0.2 ic 0.7 ic 0.0 ic N/A N/A	Property Line	+	0.2 fc	0.7 fc	0.0 fc	N/A	N/A

HUBBELL OUTDOOR

: TW34



SITE PLAN

SCALE: 1"=30'-0"

Plan View Scale - 1" = 35ft

Designer
BG
Date
6/15/2021 REV2
Scale
Not to Scale
Drawing No. Summary



CONTROL TECHNOLOGY

SiteSync NX DISTRIBUTED INTELLIGENCE SPECIFICATIONS

CONSTRUCTION fins that are optimal for heat dissipation while keeping a clean smooth outer surface · Corrosion resistant, die-cast aluminum

housing with powder coat paint finish Separate optical and electrical compartment for improved thermal management and optimum component operation · TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

· Entire optical aperture illuminates to create a low glare appearance without sacrificing optical performance

 Premium engineered individual acrylic lenses deliver IES Type 2, 3, 4W and 5QW distributions Lens distributions are field rotatable (in 90° increments) or exchangeable for job site

 3000K, 4000K, or 5000K (70 CRI) CCT 80, 160, or 320 midpower LEDs 3000K, 4000K or 5000K (70 CRI) CCT Zero uplight at 0 degrees of tilt Field rotatable optics

INSTALLATION · Tool-less entry to wiring/driver compartment optional

 Universal mounting block works with #2 drill Fixture ships with slotted mounting block to accommodate wide range of drill patterns for

HUBBELL Outdoor Lighting

2-3/8" OD brackets with vertical tilt of +3", 0" or -3" ELECTRICAL

INSTALLATION (CONTINUED)

 Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz Ambient operating temperature -40° C to 40° C Drivers have greater than 90% power factor · LED drivers have output power over-voltage,

over-current protection and short circuit protection with auto recovery

 Field replaceable surge protection device provides 20KA and 10KV protection meeting ANS//IEEE C62.41.2 Category C High and Surge Location Category C3: Automatically takes fixture off-line for protection when CONTROLS

wireless available for complete on/off and 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock

(control accessories sold separately)

 Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6 SiteSync™ wireless control system is available at: www.hubbelllighting.com/sitesync

NX Distributed Intelligence[™] available with

in fixture wireless control module, features

CATALOG #:

CONTROLS (CONTINUED) control module, features dimming and occupancy sensor via 7-pin

RELATED PRODUCTS

8 RAR1 Ratio 8 RAR2 Ratio 8 Cimarron LED

PROJECT:

CATALOG #:

· Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your

Listed to UL1598 and CSA C22.2#250.0-24 for

 1.5G rated for ANSI C136.31 high vibration IP65 optical assembly Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt

country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions 5 Year warranty See <u>HLI Standard Warranty</u> for

· This product qualifies as a "designated

KEY DAT	Ά
Lumen Range	6,000-36,000
Wattage Range	25-225
Efficacy Range (LPW)	118-148
Weight lbs. (kg)	14.5-17.5 (6.6-8.0)

dimming and occupancy sensor



LARGE LED LITEPAK

FEATURES distributions and CCT for maximum light level and mounting height flexibility

 Capable of replacing up to 400w HID solutions at over 70% energy savings · Easy to install and retrofit existing HID luminaires with same footprint Zero uplight Compact LED Architectural Wallpack

hospitals, warehouses and retail applications

 Inverted "up" mounting capable Control capabilities offer additional energy savings options Ideal applications include: perimeter illumination, schools, factories.



CONTROL TECHNOLOGY SiteSunc NX DISTRIBUTED WISCAPE WISCAPE

SPECIFICATIONS

CONSTRUCTION
 Die-cast aluminum housing protects components and provides an architectural

appearance. Casting thermally conducts LED heat to optimize performance and long life Powder paint finish provides durability in outdoor environments Four 1/2" conduit entries (top, bottom, and sides) provided for surface conduit

 Zero uplight distributions using individual acrylic LED optics provide IES type II, III and IV distributions CS - Frosted acrylic diffuser option for reduced glare "up" mounting applications (lens required

OPTICS
- 3000K, 4000K and 5000K CCT nominal with 70 CRI

 36 and 44 LED configurations available INSTALLATION

• Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box) Fixture attaches by two Allen-head hidden fasteners for tamper resistance

Designed for direct j-box mount or conduit

feed on all four sides in single SKU

ELECTRICAL
• 120-277, 347 and 480 voltage, 50/60Hz, 0-10V dimming drivers. L96 at 25,000 hrs (Projected per IESNA TM-21-11), see table on page 2 for all values Electronic driver. 10 kA surge protection.

 Ambient operating temperature -40°C to CONTROLS
- Button photocontrol for dusk to dawn energy savings

 Occupancy sensor options available for complete on/off and dimming control Integral Battery Backup provides emergency path of egress lighting for the required 90 minutes SiteSync pre-commisioned wireless controls (with or without sensor)

· In addition, the LNC4 can be specified reduction in energy and maintenance cost while optimizing light quality 24/7 See ordering information or visit

CERTIFICATIONS DesignLights Consortium® (DLC) qualified.
 Please refer to the DLC website for specific product qualifications at www.designlights.org Listed to UL1598 and CSAC22.2#250.0-24 for IP65 Assembly

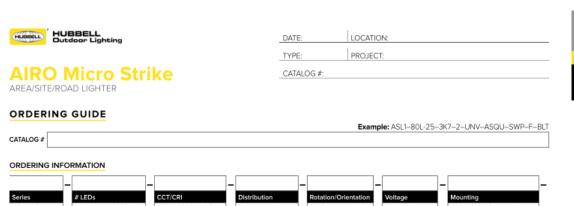
RELATED PRODUCTS

8 LNC 8 INC2 8 LNC3

IDA Approved (3000K configurations)

WARRANTY 5 year limited warranty

KEY DATA	
Lumen Range	4,269-14,793
Wattage Range	40.3-170
Efficacy Range (LPW)	75.2-117
Fixture Projected Life (Hours)	L96>25K
Weights lbs. (kg)	27.0 (12.2)



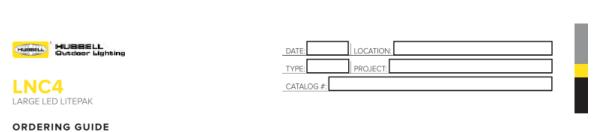
Series	# LE	Ds		-	CCT/	CRI	-	Distrib	oution	-	Rotation	n/Orient	ation	-	Voltac	ne .	_	1	Mountir	19
ASL1 ASL	80L		3,000 lm		3K7	3000K, 70 CRI	1	2	Туре ІІ	1	L Opti					Unive		- 5		Arm Square w/
Microstr Series	ike 80L	39	4,500 lm	П	4K7	4000K, 70 CRI		3	Type III		R Opti	c rotatio	n right			120-2	- 1	1		Universal Mount
Series	80L	50	6,000 lm	П	5K7	5000K, 70 CRI		4W	Type 4W						120	120V	- 1	ŀ	А3	AS with 3.5-4.13" OD RPA3 & UM
	160	-70	9,000 lm	П				5QW	Type 5QW					- 1	208	208\	- 1	1	Α4	AS with 4.18-5.25" O
	160	-100	12,000 lm	П										- 1	240	240V	- 1	ď	A4	RPA4 & U
	160	-115	15,000 lm	П										- 1	277	277V	- 1	1	A5	AS with 5.5-6.5" OD
	1601	-135	18,000 lm	П											347	347V	- 1	1		RPA5 & UM
ASL2 ASL	320	L-145	21,000 lm											- 1	480	480V		1	MAF	Mast Arm Fitter for 2-3/8" OD
Microstr	ike 320	L-170	24,000 lm	П														1		2-3/8 OD
Series	320	L-185	27,000 lm	П														1		
	320	L-210	30,000 Im	П														1		
	320	L-235	33,000 lm	П														1		
	320	L-255	35,000 lm	П														1		
				П														1		
	' '			' '									'					ď		
	ne Natwork											Option	1S				С	olo	ır	
Control Optio	ID INCLINOIR		SiteSync pre-commissioned								E3	Windows .					-	Disc	k Matte Textured	
SWP ^{1,2}		pre-co	mmissioned									P-	Fusing	ļ			BI	ш	Did	k Matte Textured
SWP ^{1,2} SWPM ^{1,2}	SiteSyno SiteSyno	wireles	ss pre-commis			motion detection						BC	Backli		Contro	Ы	BI			k Gloss Smooth
SWP ^{1,2}	SiteSyno SiteSyno NX Wire	wireles less, PIF	ss pre-commis	Sen	sor, Di	motion detection	arve	sting, 14'	(use white for	WH		1		ght		bl	В		Blac	

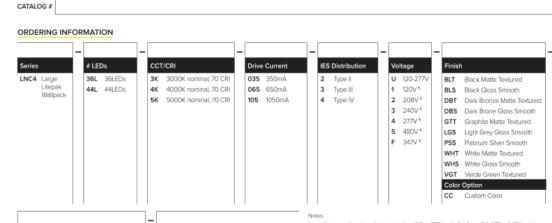
SWP	SiteSync pre-commissioned	F	-2	Fusing	BLT	Black Matte Textured	
SWPM ^{1,2}	SiteSync wireless pre-commissioned w/ motion detection	E	3C	Backlight Control	BLS	Black Gloss Smooth	
NXSPW14F1	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)	1 1	IB4	Terminal Block	DBT	Dark Bronze Matte Textured	
NXSPW30F1	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)	1 1	SF	Tooless Entry Stainless Steel Fasteners	DBS GTT	Dark Bronze Gloss Smooth Graphite Matte Textured	
NXSP14F1	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)			rasteriers	LGS LGT	Light Grey Gloss Smooth Light Grey Matte Textured	
NXSP30F1	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)				PSS WHT	Platinum Silver Smooth White Matte Textured	
NXWE1	NX Wireless Enabled (module + radio)				WHS	White Gloss Smooth	
Stand Alone Se	ensors				VGT	Verde Green Textured	
SCP-8F	Remote control programmable line voltage sensor	1			Color C	Option	ı
SCP-40F	Remote control programmable line voltage sensor				cc	Custom Color	
Control Option	s Other						
7PR	7 Pin Receptacle	1					
7PR-SC	7 Pin Receptacle with shorting cap						
7PR-MD8F	7 pin receptacle with low voltage sensor at 8' mounting for external control accessory						
7PR-MD40F	7 pin receptacle with low voltage sensor at 40' mounting for external control accessory						
7PR-TL	7 Pin Receptacle with Photocontrol						
Notes:							
	ble with 80L configurations						
2 Not compati	ble with 480V configurations						

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701 Millennium Blvd • Greenville, SC 29607 / Tel 864.678.1000 / Website www.hubbelloutdoor.com

3 Must specify voltage

4 Not available with a combination or 347/480 and fusing





		1			Note	15:
					1	Must specify voltage (battery backup 120 or 277V only, SiteSync 120, 277 or 347V only)
Contr	Control Options		Options		2	Factory install only. Not available with SCP or SWPM sensor/control options
PCU	Universal Button Photocontrol		F	Fusing (must specify voltage per footnote) 1	3	Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only
7PR	7pin PCR 5		CS	Frosted acrylic diffuser	4	PCU option not applicable, included in sensor (8F = up to 8ft, 20F = up to 20ft)
SCP	Programmable occupancy sensor 3,4		CSU			Accepts standard 3, 5, and 7-Pin ANSI controls (by others). Not available with PCU, SWP or SWPM control options
SWP	SiteSync Pre-Commission 700			fiffuser (required for up/Inverted fixture ntallations, factory install only see page 3) *	6	36L-650mA version only. Not available with SWP or SWPM control options
	SiteSync Pre-commision w/ OCC Sensor 478.9		Е	Integral battery backup rated for 0°C ¹⁶	7	Must specify group and zone information at time or order. See www.HubbellLighting.com/products/sitesync for future details
			EH	Integral battery backup with heater rated	8	Specify time delay; dimming level and mounting height
				for -30°C 16	9	1150mA for 120-227V only or 650mA for 347V or 480V

OCK ORDERING I	NFORMATI	ON								
Catalog Number	Lumens	LPW	Wattage	No. of LEDs	CCT/CRI	Voltage	Distribution	Weight lbs. (kg)	No. of Drivers	Current
LNC4-36L-4K	10,754	86.3	124.6	36	4000K	120-277V	IV	27.0 (12.2)	2	1050mA
LNC4-44L-4K-7PR	13,477	88.3	152.6	44	4000K	120-277V	IV	27.0 (12.2)	2	1050mA
LNC4-44L-4K-SCP	13,477	88.3	152.6	44	4000K	120-277V	IV	27.0 (12.2)	2	1050mA
			_							

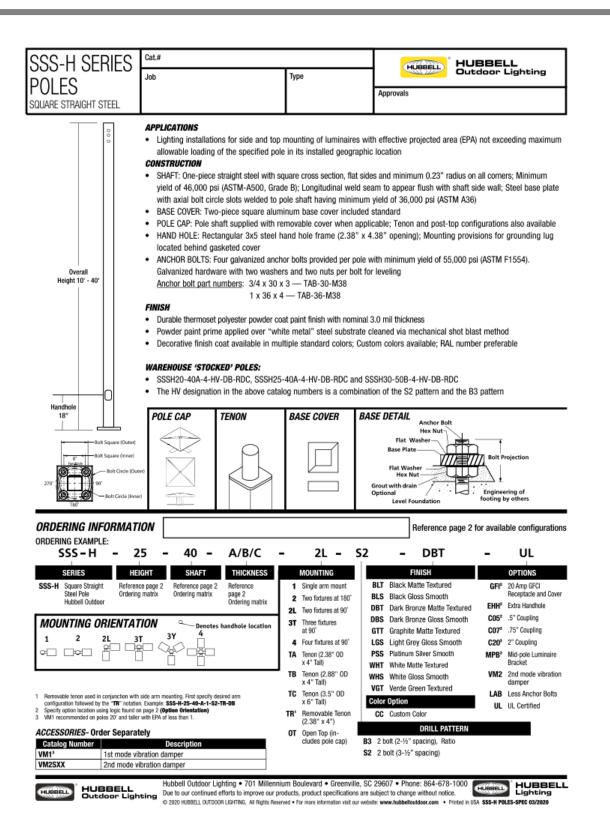
Hubbell Control Solution	s — Accessories (Sold Separately)
NX Distributed Intelligen	<u>ce</u> ™
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120–480V/
wiSCAPE® Lighting Cont	rol
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC

For additional information related to these accessories please visit <u>www.hubbelicontrolsolutions.com</u>. Options provided for use with integrated sensor, please few specification sheet ordering information table for details.

CONTROLS

SiteSync 7-Pin Module: · Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle Does not interface with occupancy sensors

Example: LNC3-24L-3K-035-2-U-DB-PCU

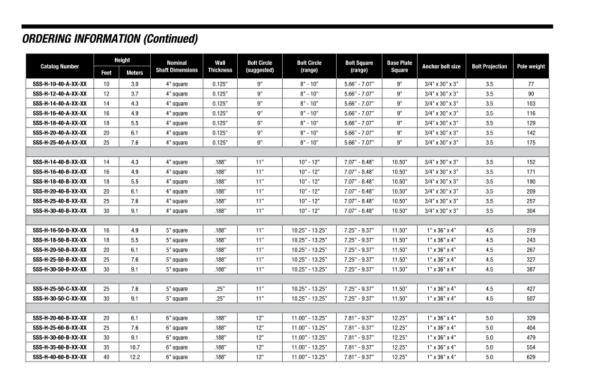




CYLO 19414		Wet Location
Base Specifications 9.5"h x 6"w x 4"c 14: LED - 8.4W (D Opal Acrylic Diffus NDA	ł im w/ 0-10V dim system)	Notes: Horizontal mounting available* 02 / 04 Lamping: Wattage and Lumens - Initial at the source
19414	-	
MODEL	FINISH	DIFFUSER LAMPING
Modifications: Horizontal mounting Other Modifications:	BA - Bronze Age BK - Black BP - Black Pearl CB - Cast Bronze CH - Chestnut CR - Chrome DI - Dark Iron	OA - Opal O2: Wet Loc - LED - 8.4W - 1181 Lumens (Dim w/ Std Phase Dim) - 120V (Non-Dim or Dim w/ 0-10V Dim system) Universal FA - Faux Alabaster TS - Tea Stained WS - White Swird O4: Damp / Dry LED - 8.4W - 1181 Lumens (Non-Dim or Dim w/ 0-10V Dim system) - Universal



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EHH - EXTRA HANDHOLE	C05 - C07 - C20 - COUPLING	VM1 - VIBRATION DAMPER 1ST MODE	VM2 - VIBRATION DAMPER 2ND MODE	VM2SXX - VIBRATION DAMPER 2ND MODE
Provision for Grounding	2"-11.5 NPSC Threads 314"- 14 NPSC Threads 112"- 14 NPSC Threads	Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.	Factory installed, internal damper designed to after pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.	VM2S08 – 8' VM2S12 – 12 VM2S16 – 16 VM2S20 – 20 VM2S24 – 24 Field installed, internal damper designed talter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.
	FCI COVER Square Steel Pole Standard hand hole frame Adapter plate MP GFCI	MPB - MID POLE BRACKE Square Steel Pole Affachment stub 5' long welded to pole 2" pipe tenon 4.25' tal Arm, 3' Sq. x 13.5' long ships separately	Follow the logic options. For ea and its height ordered as: \$\$ (.5" coupling on from the pole b	below when ordering location specific the option, include its orientation (in degrees) in feet, Example: Option (207 should be si-H-20-40-A-TA-DBT-C07-0-15 in the handhole/arm side of pole, 15 feet up ase) 1' spacing required between option. for other configurations. Bolt Square (Outer) Bolt Circle (Duser) Bolt Circle (Duser)

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Outdoor Lighting Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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Designer Date 6/15/2021 REV2 Scale Not to Scale Drawing No.

Summary