

Tienken Traillofts **New Construction** 460 W. Tienken Rochester Hills, MI 48306

6 on 24, LLC 6435 Apple Orchard Ln.

Rochester Hills, MI 48306

TRAIL LOFTS

Location

T1 SURVEY (C4.0 SITE DISTANCE DETAILS)

SHEET AND CONSULTANT INDEX

Civil

Sujak Engineering, PLC 4031 Coolidge Hwy

Troy, MI 48098

ph: 248-885-8431 email: sujakengineering@comcast.net contact: Teon Sujak

C1.0 SITE PLAN C2.0 SITE PLAN WITH FULL SURVEY C3.0 SITE PLAN DETAILS

Project:

Lanscape

Donald C. Westphal Associates

71 N. Livernois Rd., Rochester Hills, MI 48307

ph: 248-651-5518 email: jennifer@dcwestphal.com contact: Jennifer Blankenship

L1.0 LANDSCAPE PLAN L2.0 DETAILS (IR-1 IRRIGATION PLANS)

Architectural

Roger Berent Architects, PLLC

6435 Apple Orchard Lane Rochester Hills, MI 48306

ph: 248-805-1024 email: rogerberent@gmail.com contact: Roger Berent

A-400 BUILDING SECTIONS

T-100 TITLE SHEET A-010 PROJECT DATA A-020 WALL TYPES A-040 DESIGN DIAGRAMS A-050 ARCHITECTURAL SITE PLAN P-100 PHOTOMETRIC A-100 FLOOR PLANS (A-200 TRANSPARENCY ELEVATIONS) A-300 PERIMETER COLOR ELEVATIONS A-310 ELEVATIONS A-320 SITE AND BUILDING ELEMENTS

LOCATION AERIAL MAP



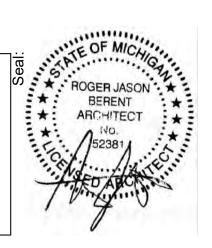
Consultant:

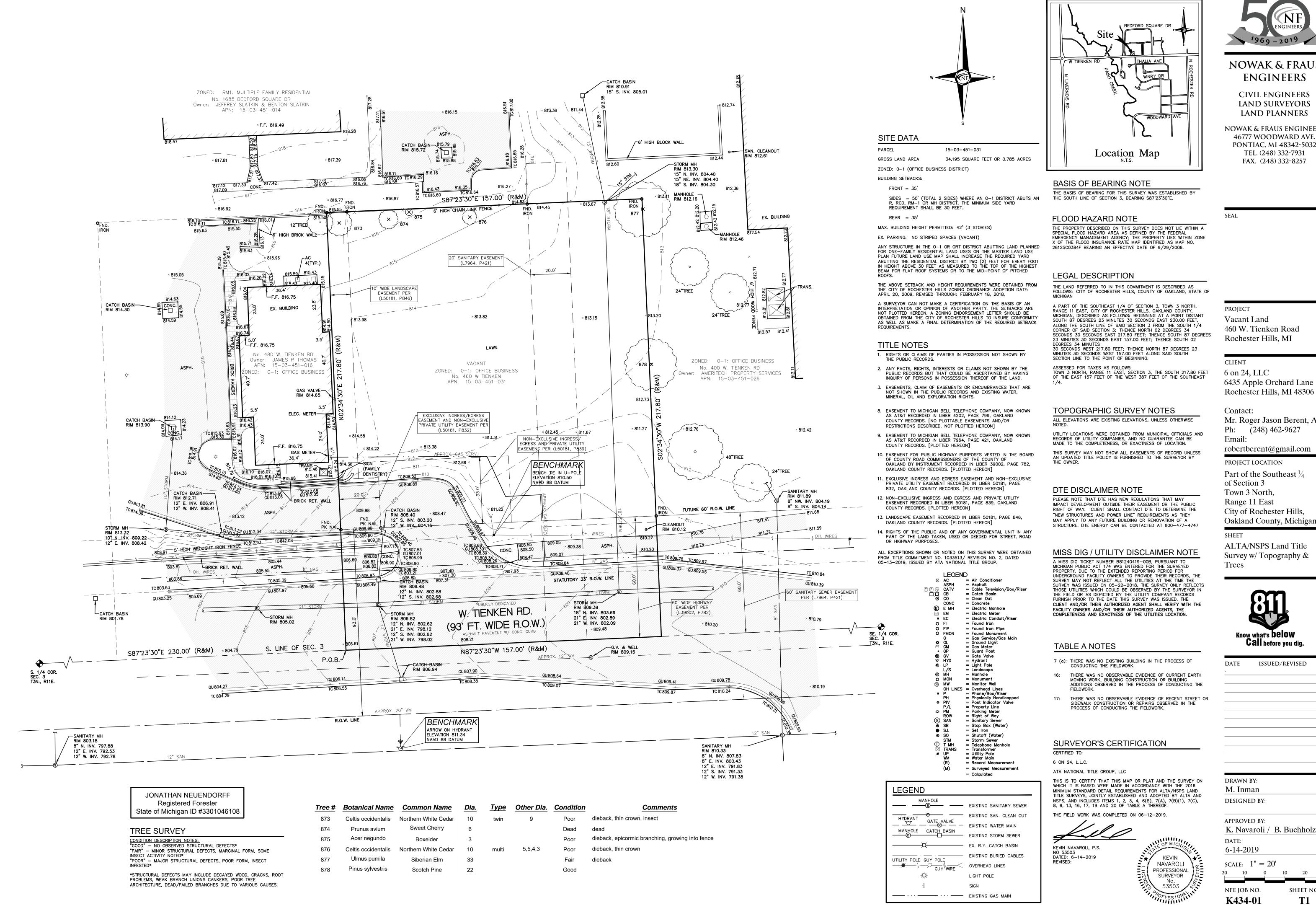
These drawings are instruments of service and as such are the property of the Architect. The Architect drawings, specifications and related documents are not to be used by the Owner or others on other projects, for additions to this Project, or for completio of this Project by others.

ct's	Drawing Issue:							
	No.	Date	Description					
		01.28.2020	SUBMITTAL REVISIONS					
		12.10.2019	SITE PLAN SUBMITTAL					
ion		11.07.2019	RH REVIEW SET					
		10.16.2019	INTERNAL REVIEW SET					
		09.10.2019	BID SET					

460 W. TIENKEN a.k.a. Tienken Traillofts Rochster Hills, Michigan

Drawing Number: Date: Drawn By: Scale: Checked By: DRAWING TITLE: TITLE TITLE-100







NOWAK & FRAUS ENGINEERS

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

PROJECT Vacant Land 460 W. Tienken Road Rochester Hills, MI

CLIENT 6 on 24, LLC 6435 Apple Orchard Lane

Contact: Mr. Roger Jason Berent, AIA

Email: robertberent@gmail.com

PROJECT LOCATION Part of the Southeast ½

of Section 3 Town 3 North, Range 11 East City of Rochester Hills, Oakland County, Michigan

SHEET

ALTA/NSPS Land Title Survey w/ Topography & Trees



ISSUED/REVISED

DRAWN BY: M. Inman

DESIGNED BY:

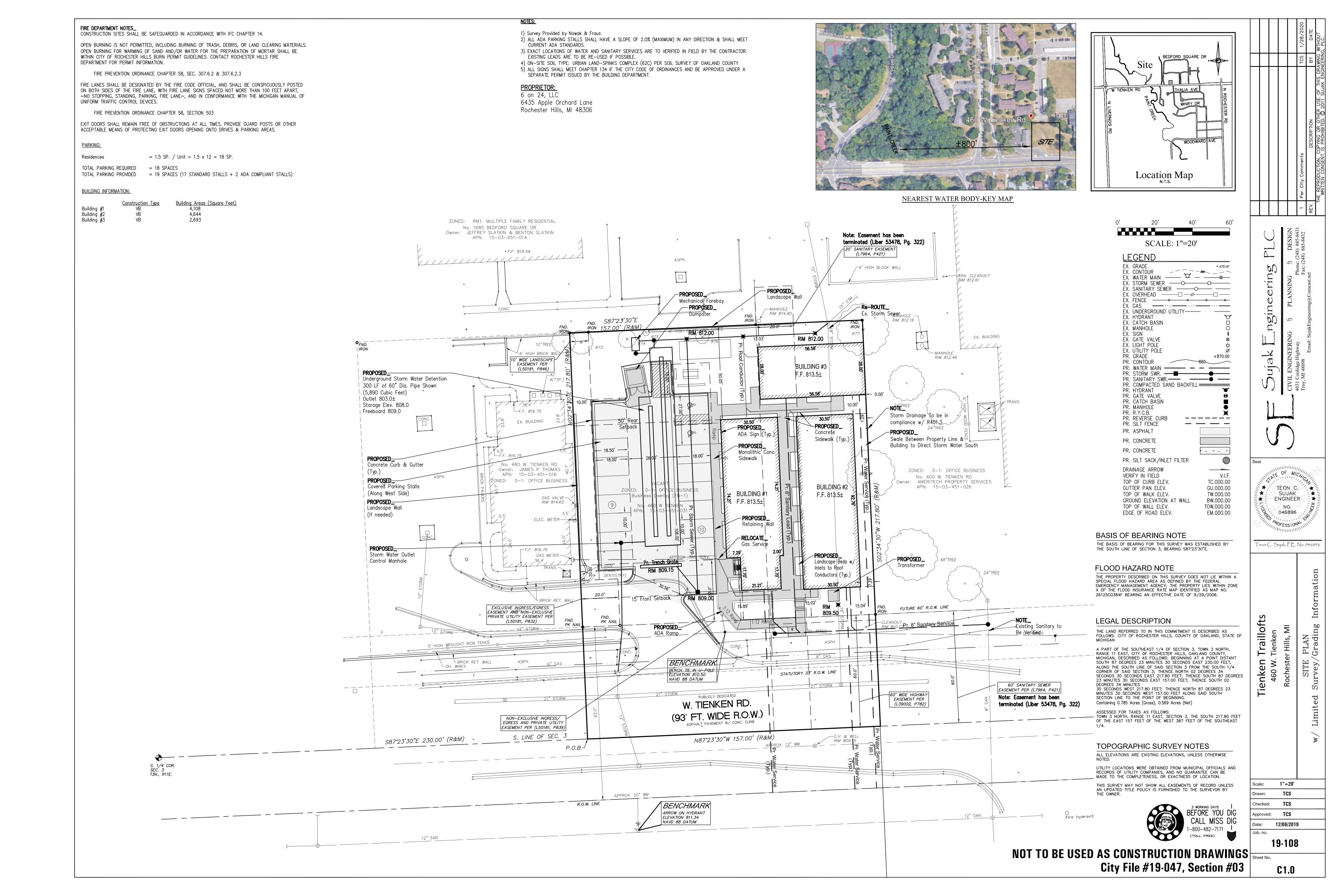
APPROVED BY:

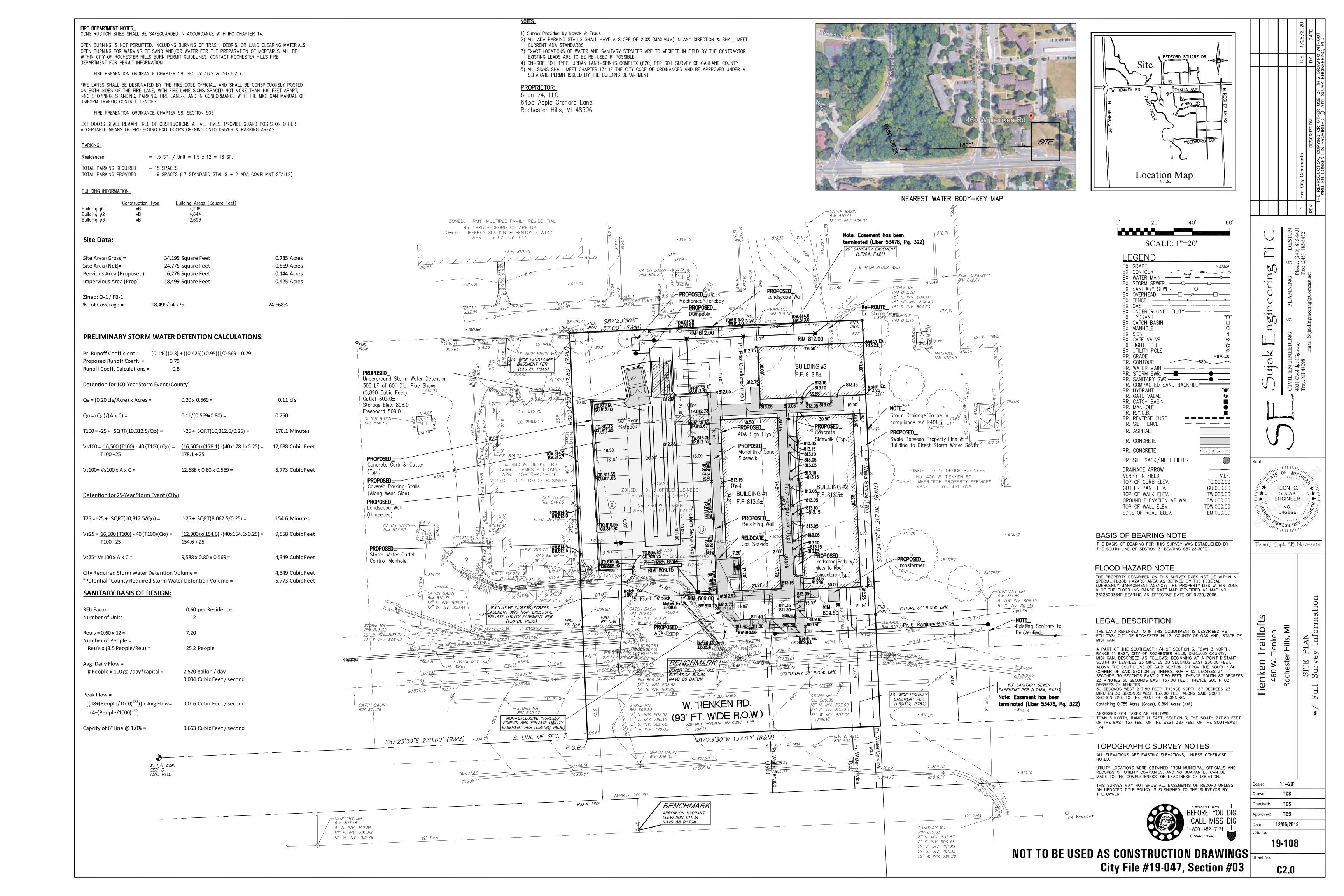
K. Navaroli / B. Buchholz DATE: 6-14-2019

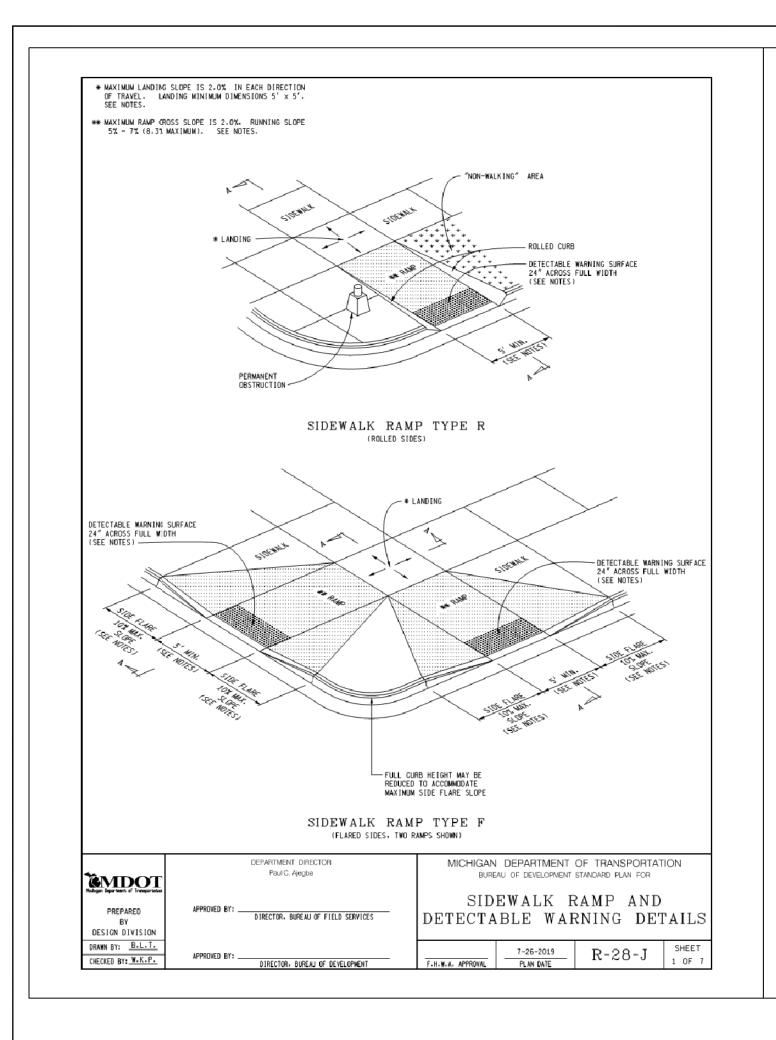
SCALE: 1'' = 20'

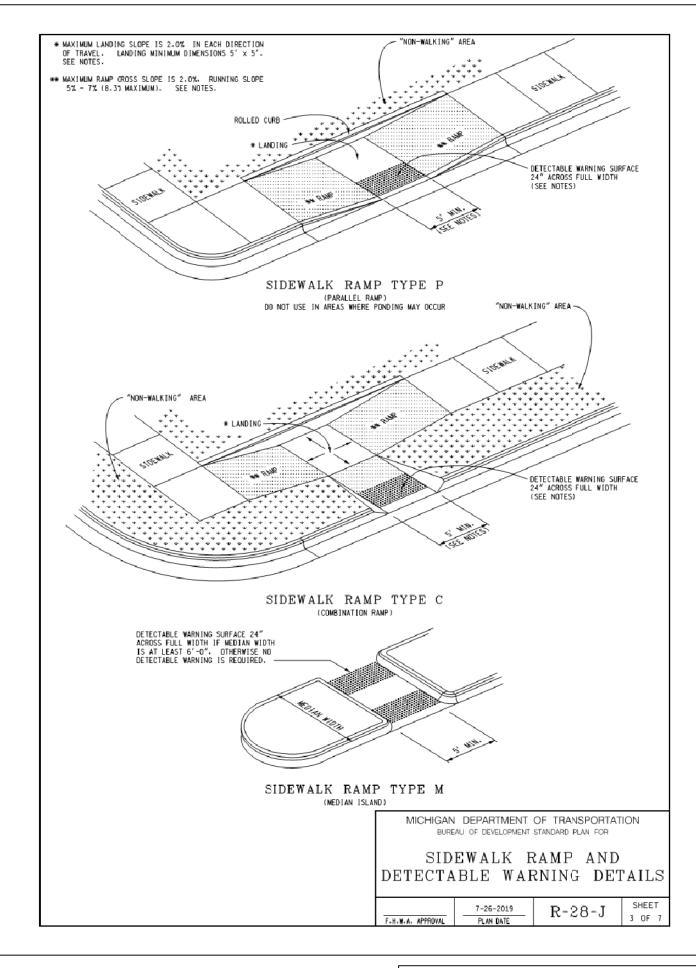
NFE JOB NO. K434-01

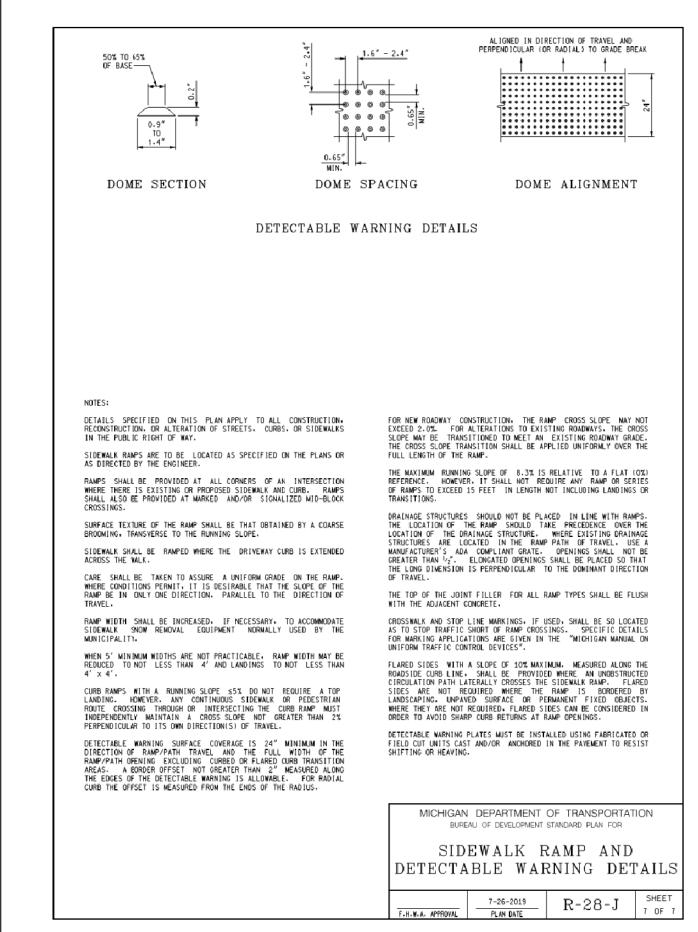
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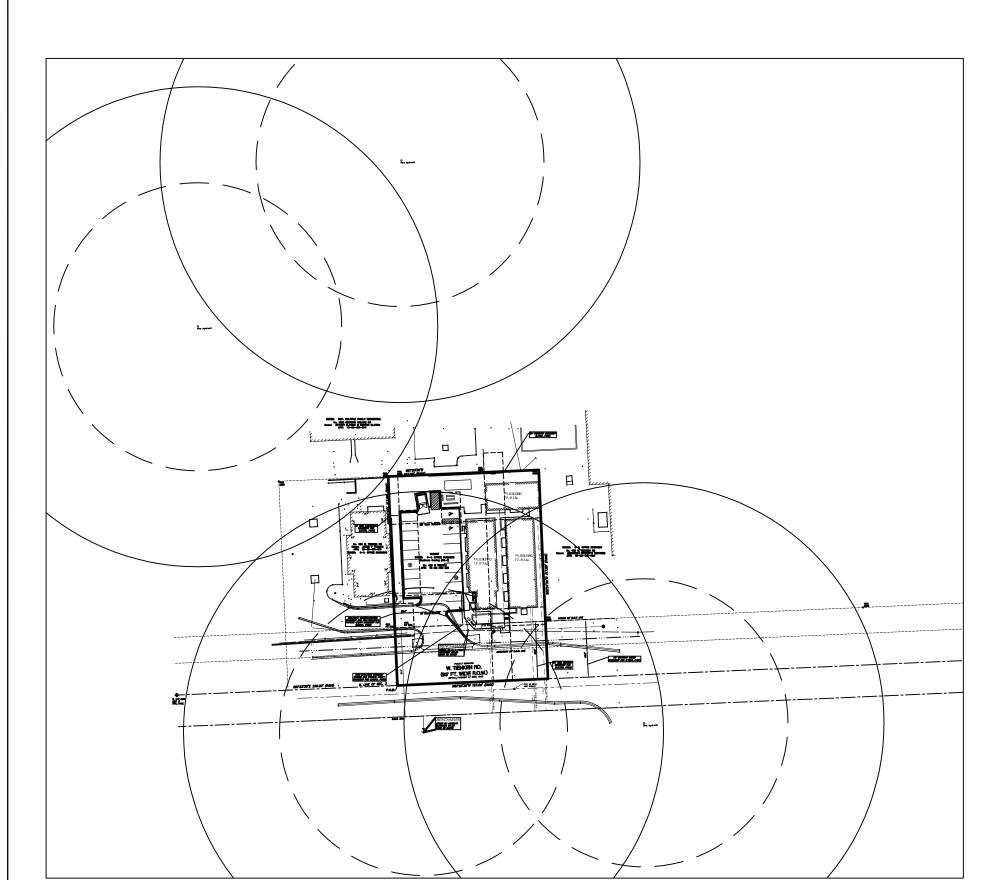






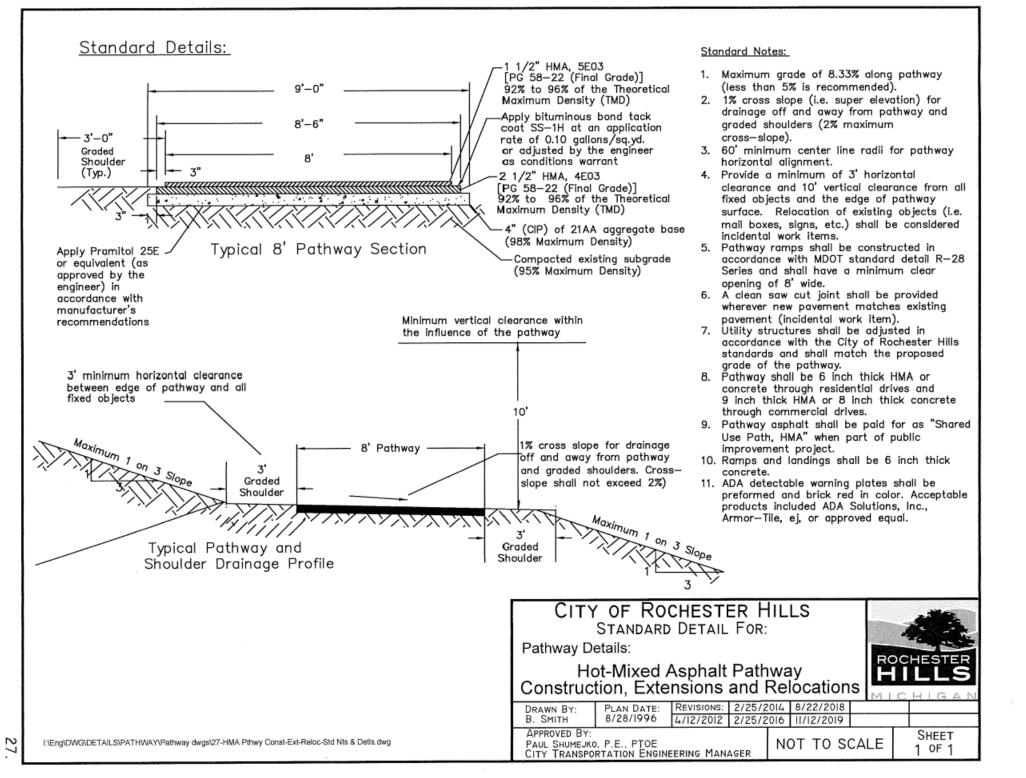


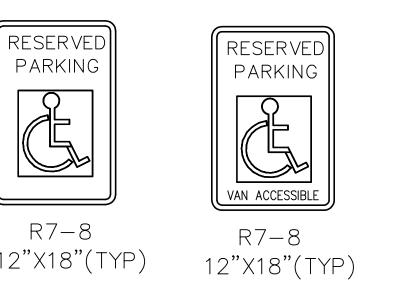




150' & 250' Radii from Existing Hydrants Scale: 1"=100'







A.D.A. SIGN DETAILS

NO SCALE



BOND COAT-

ASPHALT PAVEMENT SECTION (SECTION TO BE SPECIFIED BY SOIL'S ENGINEER)

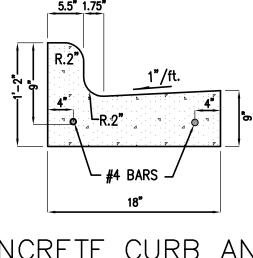
∕-1 1/2" M.D.O.T.

REWORK 12" OF

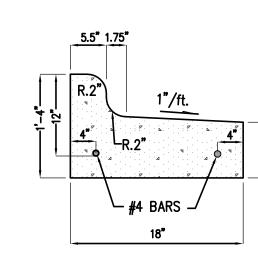
EXISTING SUBGRADE

AND COMPACT TO

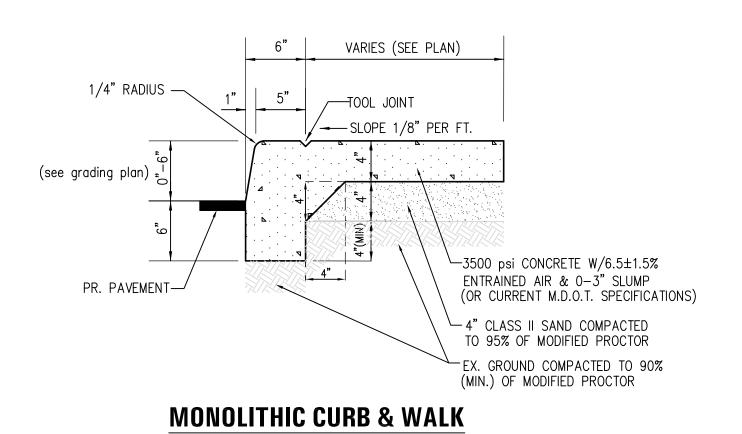
95% MAX. DENSITY



CONCRETE CURB AND GUTTER (REGULAR GUTTER) ON-SITE



6" CONCRETE CURB AND GUTTER (REVERSE GUTTER)



4'-6' (or as Noted) 1/4" R. (TYP.) NORMAL SLOPE 1/4" PER FT. TOWARDS PVMT.	<u>↓</u>	4" MIN.	AT 6"	DRIVEWAYS AND ALLEYS A MIN. WILL APPLY	
GRANULAR MATERIAL CLASS II SUBBASE WHERE REQUIRED, 4"					

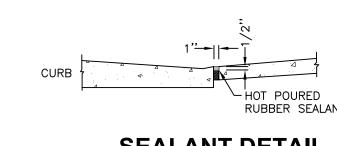
CONCRETE SIDEWALK

NO SCALE

ONE-HALF INCH TRANSVERSE EXPANSION JOINTS SHALL BE PLACED THROUGH THE SIDEWALK AT UNIFORM INTERVALS OF NOT MORE THAN 50'. ONE-HALF INCH EXPANSION JOINTS SHALL ALSO BE PLACED BETWEEN THE SIDEWALK AND BACK OF ABUTTING PARALLEL CURB, BETWEEN THE SIDEWALK AND BUILDING OR OTHER OTHER RIGID STRUCTURES, BETWEEN SIDEWALKS AND DRIVEWAY APPROACHES. ONE INCH EXPANSION JOINTS SHALL BE PLACED BETWEEN SIDEWALK APPROACHES AND BACK OF CURBS AND DRIVEWAYS.

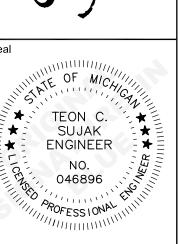
THE SIDEWALK SHALL BE DIVIDED INTO UNIT AREAS OF NOT MORE THAN 36 SQUARE FEET AND, INSOFAR AS FEASIBLE, THE UNIT AREAS SHALL BE SQUARE AND, OR NOT LESS THAN 16 SQUARE FEET. THE UNIT AREAS SHALL BE PRODUCED BY USE OF SLAB DIVISION FORMS EXTENDING TO THE FULL DEPTH OF THE CONCRETE OR BY CUTTING JOINTS IN THE CONCRETE, AFTER FLOATING, TO A DEPTH OF NOT LESS THAN ONE-FOURTH THE THICKNESS OF THE SIDEWALK. THE CUT JOINTS SHALL BE NOT LESS THAN 1/4" NOR MORE THEN 1/2" IN WIDTH AND SHALL BE FINISHED SMOOTH AND TRUE TO LINE.

SEAL BETWEEN SIDEWALK AND BACK OF CURB WITH HOT POURED RUBBER ASPHALT.



SEALANT DETAIL

NOT TO BE USED AS CONSTRUCTION DRAWINGS **City File #19-047, Section #03**



Teon C. Sujak, P.E. No. 046896

TrailloftsTienken

Tienken 7

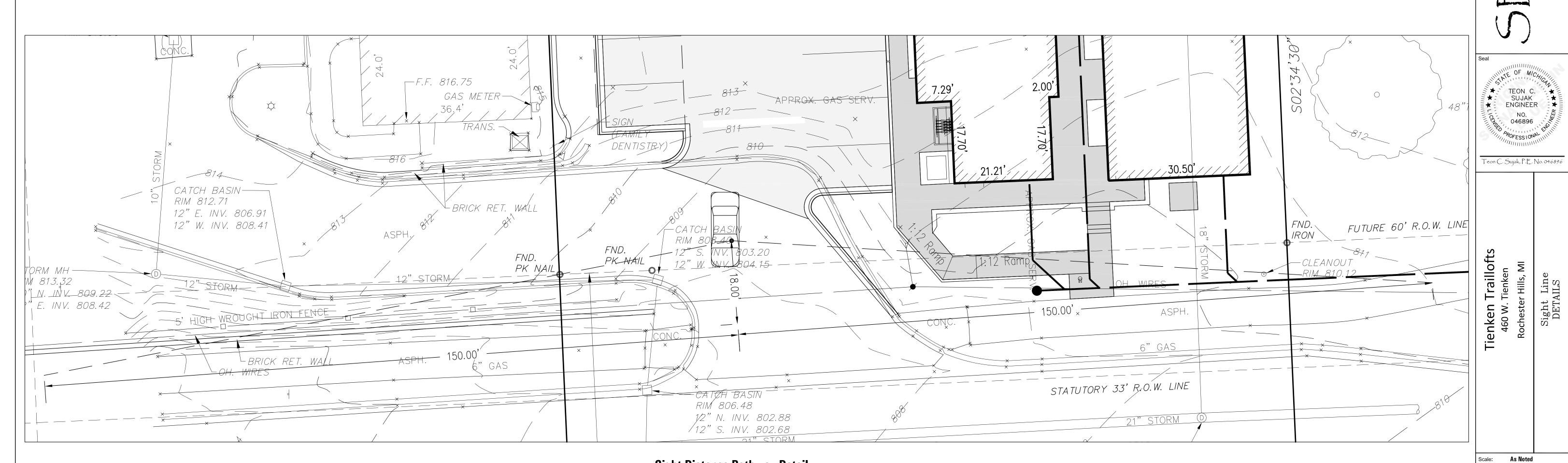
As Noted TCS Checked: TCS 12/06/2019

19-108

C3.0



Scale: 1"=40'



Sight Distance Pathway Detail
Scale: 1"=10'

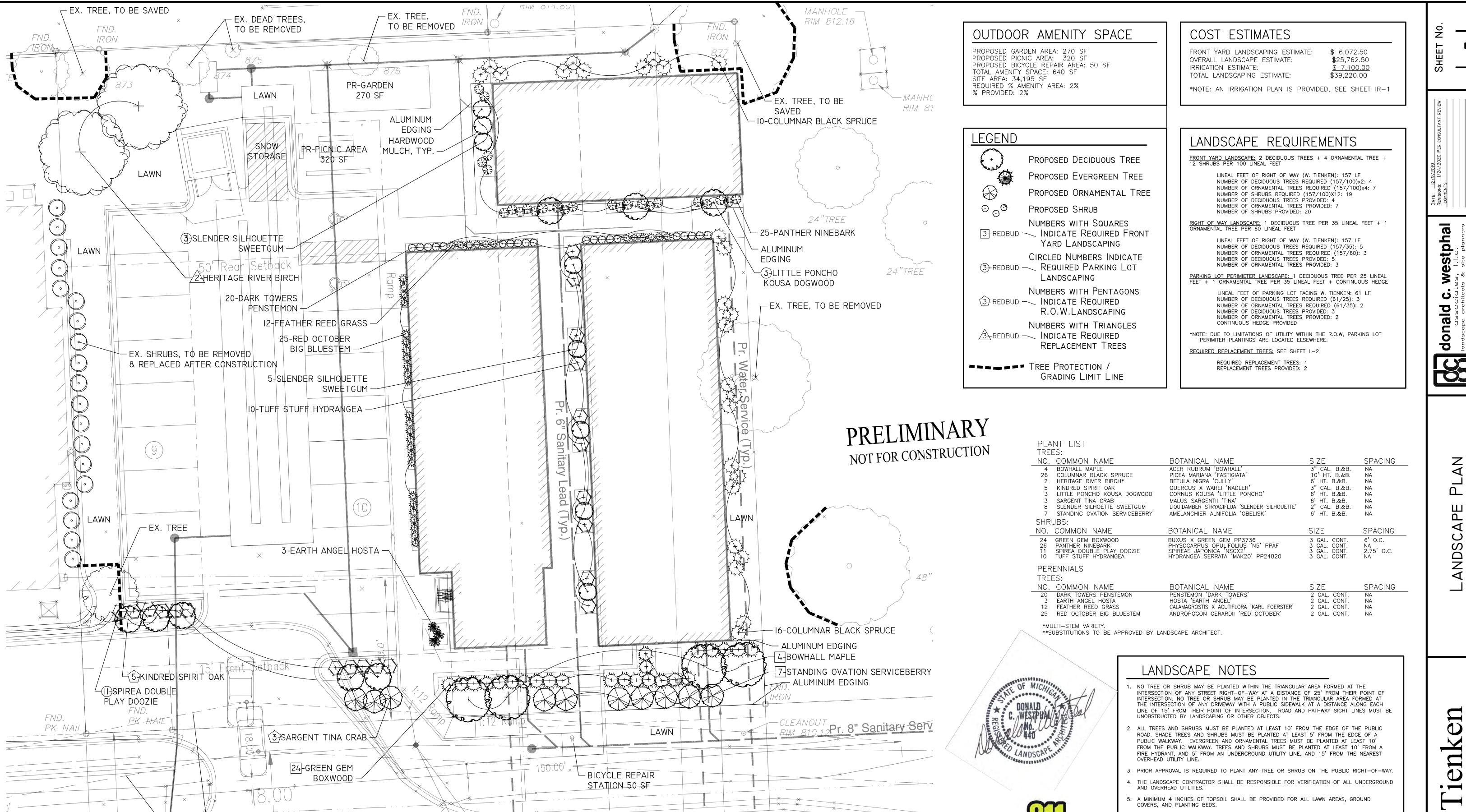


Checked: TCS

12/06/2019

19-108

C4.0



-PATHWAY \$IGHT LINE

PUBLICLY DEDICATED

W. TIENKEN RD.

OVERALL LANDSCAPE PLAN

SCALE: 1" = 10'

ELEVATION 810.50

NA VDI 88 DATUM

ROADWAY SIGHT LINE

- 6. LAWN TREES AND PLANTING BEDS SHALL BE MULCHED WITH A MINIMUM OF 4 INCHES OF SHREDDED HARDWOOD BARK. GROUNDCOVERS SHALL BE MULCHED WITH 2 INCHES OF
- SHREDDED HARDWOOD BARK.

 ALL LANDSCAPED AREAS, INCLUDING LAWNS, SHALL BE IRRIGATED BY AUTOMATIC UNDERGROUND
- OR DRIP IRRIGATION SYSTEM DESIGNED TO MINIMIZE WATER USAGE. IRRIGATION OVERSPRAY SHALL NOT BROADCAST ONTO CITY PATHWAY. WATERING WILL ONLY OCCUR BETWEEN THE HOURS OF 12AM AND 5AM.
- 8. ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS STANDARDS.
- 9. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPES SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.
- 10. 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.
- 11. THESE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.

Know what's **below. Call** before you dig.

SCALE IN FEET

NORTH

12. BEST MANAGEMENT PRACTICES WILL BE STRICTLY FOLLOWED DURING CONSTRUCTION TO MINIMIZE IMPACTS ON NATURAL FEATURES SETBACKS.

2. PLANTING POCKETS SHALL BE DUG SO THAT THE POCKET DIAMETER IS A MINIMUM OF 12" LARGER THAN THE ROOT BALL AND THE SIDES OF POCKET ARE VERTICAL AND FRACTURED. INDIGENOUS SOILS SHALL BE TAMPED AND WATERED DURING BACK FILLING PROCEDURE.

3. PLANTING POCKETS SHALL BE NO DEEPER THAN THE HEIGHT OF THE ROOT BALL, SAUCER SHALL BE MADE ON THE EDGES OF PLANTING POCKET. 4. TREES SHALL BE GUYED WITH TWO STRANDS TWISTED OF 12 GAUGE GALVANIZED WIRE.

PROTECT THE TREE TRUNK WITH HOSE OR OTHER ACCEPTABLE MEANS. GUY TO TWO HARDWOOD 2"x 2"x 8" POSTS, DRIVEN 2" DEEP IN UNDISTURBED SOIL 5. MULCH SHALL BE GROUND OR SHREDDED HARDWOOD BARK, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF PLANTING BEDS AND INDIVIDUAL TREE

6. TREES SHALL BE MULCHED WITH MIN. 4" DEEP HARDWOOD BARK MULCH 30" DIAMETER CIRCLE AROUND THE TREE.

7. SHRUBS SHALL BE MULCHED IN BEDS ACCORDING WITH THE DETAIL ON THIS SHEET. MULCH SHALL BE MIN. 4" DEEP HARDWOOD BARK. SEE LANDSCAPE PLAN FOR LOCATION

OF PLANTING BEDS. SEE PLANTING DETAILS FOR INDIVIDUAL PLANTINGS. 8. PLANTS SHALL BE GUARANTEED FOR ONE COMPLETE GROWING SEASON (12 MONTHS). DEAD MATERIALS SHALL BE REPLACED AS NEEDED PRIOR TO THE EXPIRATION OF THE GUARANTEE

PERIOD, IN ACCORDANCE WITH THE CITY OR TOWNSHIP ORDINANCE REQUIREMENTS. CONTRACTOR SHALL PROVIDE IN WRITING A LIST OF RECOMMENDED MAINTENANCE PRO-

CEDURES FOR THE FIRST GROWING SEASON.

10. EVERGREEN TREES SHOWN ON THE PLANT LIST SHALL VARY IN HEIGHT IN THE RANGE SHOWN PROVIDING FOR AN EVEN DISTRIBUTION OF TALLER AND SHORTER TREES. 11. REMOVE TOP 1/2 OF BURLAP ON ROOT BALL OR ALL IF WRAPPED IN PLASTIC COVERING

AND/OR ALL NYLON CORD. 12. PLANT MATERIALS SHALL BE USED IN COMPLIANCE WITH THE PROVISIONS OF THE CITY OR TOWNSHIP ORDINANCE AND SHALL BE NURSERY GROWN, FREE OF PESTS AND DISEASES, HARDY IN THE COUNTY, IN CONFORMANCE WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, AND SHALL HAVE PASSED INSPECTIONS REQUIRED UNDER STATE REGULATIONS. IN ADDITION, PLANT MATERIALS SHALL CONFORM TO THE STANDARDS OF THE COUNTY COOPERATIVE EXTENSION SERVICE, A COPY OF WHICH SHALL BE KEPT

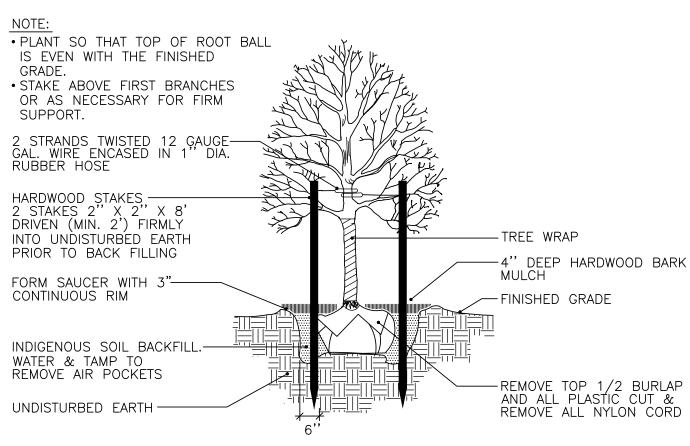
ON FILE WITH THE PLANNING OFFICIAL. 13. SOD SHALL BE CERTIFIED TURF GRASS SOD COMPLYING WITH A.S.P.A. SPECIFICATIONS FOR MACHINE-CUT THICKNESS, SIZE, STRENGTH, MOISTURE CONTENT, AND MOWED HEIGHT, AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE. SOD SHALL BE STRONGLY ROOTED AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED. CUT SOD SHALL NOT BE PERMITTED TO DRY OUT AND SHALL BE LAID WITHIN 24 HOURS OF WHEN CUT. FERTILIZE AND WATER THE SOD AS REQUIRED DURING THE FIRST GROWING SEASON TO MAINTAIN A

DENSE AND VIGOROUS GROWING SOD. 14. PLANTING BED SOIL FOR ANNUALS SHALL BE SCREENED TOPSOIL. TO DETER WEED GROWTH DURING THE ESTABLISHMENT OF ANNUAL BED, APPLY A PRE-EMERGENT ('PREEN' OR EQUAL) AFTER PLANTING ANNUALS, 2-3 TIMES PER GROWING SEASON, AT A RATE AS PER RECOMMENDATION OF PRODUCT MANUFACTURER.

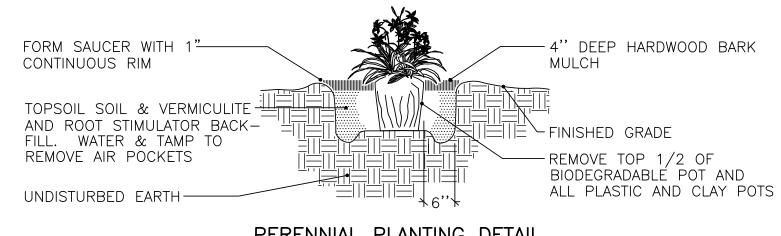
15. TREES OF 2" CALIPER AND GREATER SHALL BE WRAPPED WITH 6" WIDE KRAFT CREPE. WRAP THE TRUNK TO THE FIRST LIMBS. OVERLAP HALF OF EACH SPIRAL WRAP TO FORM A DOUBLE WRAPPING. SECURE WRAPPING WITH TWINE. DO NOT WRAP SPECIES SUBJECT TO

LANDSCAPE CONTRACTOR'S "ONE-YEAR IRRIGATION REQUIREMENT PERIOD"

IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PROGRAM AND PERIODICALLY ADJUST THE IRRIGATION SYSTEM (PROVIDED BY OTHERS) AS REQUIRED TO INSURE DELIVERY OF PROPER AND ADEQUATE WATER SUPPLY TO ALL PLANT MATERIALS. SOD AND SEEDED LAWN AREAS (SERVICED BY THE IRRIGATION SYSTEM) TO INSURE THE ESTABLISHMENT OF HEALTHY PLANT MATERIALS AND LAWNS FOR THEIR FIRST YEAR OF GROWTH. FOLLOWING THE LANDSCAPE CONTRACTOR'S "ONE-YEAR IRRIGATION REQUIREMENT PERIOD". THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH A SUGGESTED "IRRIGATION MAINTENANCE SCHEDULE" FOR HIS USE.



DECIDUOUS TREE PLANTING DETAIL NO SCALE



PERENNIAL PLANTING DETAIL

NO SCALE

CITY TREE PROTECTION NOTES

IMPORTANT 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.

TREE PROTECTION NOTES:

• PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED

 FLAG GUYING WIRES WITH SURVEYOR TAPE, ONE PER

GRADE.

GUYING WIRE.

CONTINUOUS RIM.

AIR POCKETS.

RUBBER HOSE, 1" DIA.

FORM SAUCER WITH 3"-

3 - 2"x4"x24" PRESSURE -

TREATED STAKES, TOP OF

STAKE 6" ABOVE GROUND.

INDIGENOUS SOIL BACKFILL.

WATER & TAMP TO REMOVE

• 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

• Upon completion of grading and the installation of the infrastructure, a second inspection of the TPF and the trees designated for preservation is required by the City of Rochester Hills' Forester prior 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

• 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 for preservation.

• 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 designated for preservation.

• 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 Occupancy.

• 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 TPF fencing shall remain upright and securely in place for the required time as specified

• 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.

EVERGREEN TREE PLANTING DETAIL

NO SCALE

TREE INVENTORY

Botanical Name	Common Name	Dia.	Туре	Condition	Comments
Celtis occidentalis	Northern White Cedar	9,1	twin	Poor	Dieback, thin crown, insect - To be saved
Prunus avium	Sweet cherry	6		Dead	Dead - Exempt
Acer negundo	Boxelder	3		Dead	Dead - Exempt
Celtis occidentalis	Northern White Cedar	5,5,4,3	multi	Poor	Not Regulated (<6") - Exempt
Ulmus pumila	Siberian Elm	33		Fair	Dieback - To be saved
Pinus sylvestris	Scotch Pine	22		Good	To be removed
	Celtis occidentalis Prunus avium Acer negundo Celtis occidentalis Ulmus pumila	Celtis occidentalis Northern White Cedar Prunus avium Sweet cherry Acer negundo Boxelder Celtis occidentalis Northern White Cedar Ulmus pumila Siberian Elm	Celtis occidentalisNorthern White Cedar9,1Prunus aviumSweet cherry6Acer negundoBoxelder3Celtis occidentalisNorthern White Cedar5,5,4,3Ulmus pumilaSiberian Elm33	Celtis occidentalis Northern White Cedar 9,1 twin Prunus avium Sweet cherry 6 Acer negundo Boxelder 3 Celtis occidentalis Northern White Cedar 5,5,4,3 multi Ulmus pumila Siberian Elm 33	Celtis occidentalisNorthern White Cedar9,1twinPoorPrunus aviumSweet cherry6DeadAcer negundoBoxelder3DeadCeltis occidentalisNorthern White Cedar5,5,4,3multiPoorUlmus pumilaSiberian Elm33Fair

LANDSCAPE MAINTENANCE NOTES

LANDSCAPE MAINTENANCE NOTES:

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

B. Pruning shall be minimal at the time of installation, only to remove dead or diseased branches. Subsequent pruning shall assure proper maturation of plants to achive their approved purpose.

C. All dead, damaged, or diseased plant material shall be removed immediately and replaced within six (6) months after it dies or in the next planting season, whichever occurs first. For puposes of this section, the planting season for deciduous plants shall be between March 1 and June 1 and from October 1 until prepared soil has frozen. The planting season for evergreen plants shall be between March 1 and June 1. Plant material installed to replace dead pr 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 afformentionedd 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 in 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

TREE REPLACEMENT CALCULATIONS ON-SITE TREES

a

ph

0

a

0

0

nk

0

•

9

4

TOTAL NUMBER OF TREES INVENTORIED ..

TOTAL NUMBER OF TREES EXEMPT (DEAD/<6" DBH)...... TOTAL NUMBER OF REGULATED TREES (≥ 6"DBH) [6-3].....3

TOTAL NUMBER OF TREES REMOVED FOR UTILITIES......1 TOTAL NUMBER OF REGULATED TREES TO BE SAVED.....2 PERCENTAGE OF REGULATED TREES TO BE SAVED (2/3)....66%

REQUIRED PERCENTAGE OF REGULATED TREES TO BE SAVED....40% TREES THAT ARE REMOVED WILL BE REPLACED ON A ONE-FOR-ONE BASIS PER CITY ORDINANCE

ON-SITE REPLACEMENT TREES TOTAL NUMBER OF REPLACEMENT TREES REQUIRED

**TOTAL NUMBER OF REPLACEMENT TREE CREDITS PROVIDED ON-SITE 2

GENERAL TREE NOTES

THIS TREE PRESERVATION AND REPLACEMENT PLAN INVENTORIES ALL REGULATED TREES IN PROXIMITY TO PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE

. FOR TREE PROTECTION MEASURES, SEE "TREE PROTECTION NOTES", THIS SHEET. 3. SEE THE "TREE INVENTORY" TABLE, THIS SHEET FOR TREE IDENTIFICATIONS LIST.

4. SEE SHEET L-1 FOR TREE PROTECTION BARRIER LOCATIONS.

5. BUILDING ENVELOPES SHALL CONSIST OF THE BUILDABLE AREA REMAINING ON A LOT OR BUILDING SITE AFTER SATISFYING THE SETBACK REQUIREMENTS.

WOOD OR METAL POSTS · DRIP LINE — ➤ ORGANIC LAYER TOP SOIL

ADDITIONAL TREE PROTECTION NOTES

BEFORE DEVELOPMENT, LAND CLEARING, FILLING OR ANY LAND ALTERATION FOR WHICH A TREE REMOVAL PERMIT IS REQUIRED, THE PERMIT HOLDER SHALL CLEARLY MARK BY PAINTING, FLAGGING. OR OTHER APPROVED METHOD ALL TREES TO BE REMOVED AND SHALL ERECT AND MAINTAIN SUITABLE BARRIERS TO PROTECT REMAINING TREES. PROTECTIVE BARRIERS SHALL REMAIN IN PLACE UNTIL THE CITY AUTHORIZES THEIR REMOVAL OR ISSUES A FINAL CERTIFICATE OF OCCUPANCY, WHICHEVER OCCURS FIRST. BARRIERS ARE REQUIRED FOR ALL TREES NOT APPROVED FOR REMOVAL, EXCEPT FOR THE FOLLOWING:

STREET RIGHT-OF-WAY AND UTILITY EASEMENTS MAY BE CORDONED BY PLACING STAKES A MINIMUM OF FIFTY (50) FEET APART AND TYING RIBBON, PLASTIC TAPE, ROPE ETC., FROM STAKE TO STAKE ALONG THE OUTSIDE PERIMETERS OF AREAS TO BE CLEARED.

LARGE PROPERTY AREAS SEPARATE FROM THE CONSTRUCTION OR LAND CLEARING AREA ONTO WHICH NO EQUIPMENT WILL VENTURE MAY ALSO

2. NO VEHICLE OR OTHER CONSTRUCTION EQUIPMENT SHALL BE PARKED OR STORED WITHIN

METHOD OF FIELD DELINEATION: INDIVIDUAL SPECIMEN TREES WERE LOCATED AND IDENTIFIED ACCORDING TO STANDARD SURVEYING PRACTICES.

BE CORDONED OFF AS DESCRIBED IMMEDIATELY ABOVE.

CONSTRUCTION --4" DEEP HARDWOOD BARK FORM SAUCER WITH 3"-MULCH CONTINUOUS RIM -FINISHED GRADE INDIGENOUS SOIL BACKFILL WATER & TAMP TO UNDERSTORY PLANTS REMOVE AIR POCKETS -REMOVE TOP 1/2 BURLAP AND ALL PLASTIC CUT & REMOVE ALL NYLON CORD UNDISTURBED EARTH-TREE PROTECTION BARRIER DETAIL SHRUB PLANTING DETAIL

GUYING WIRES 2 STRANDS

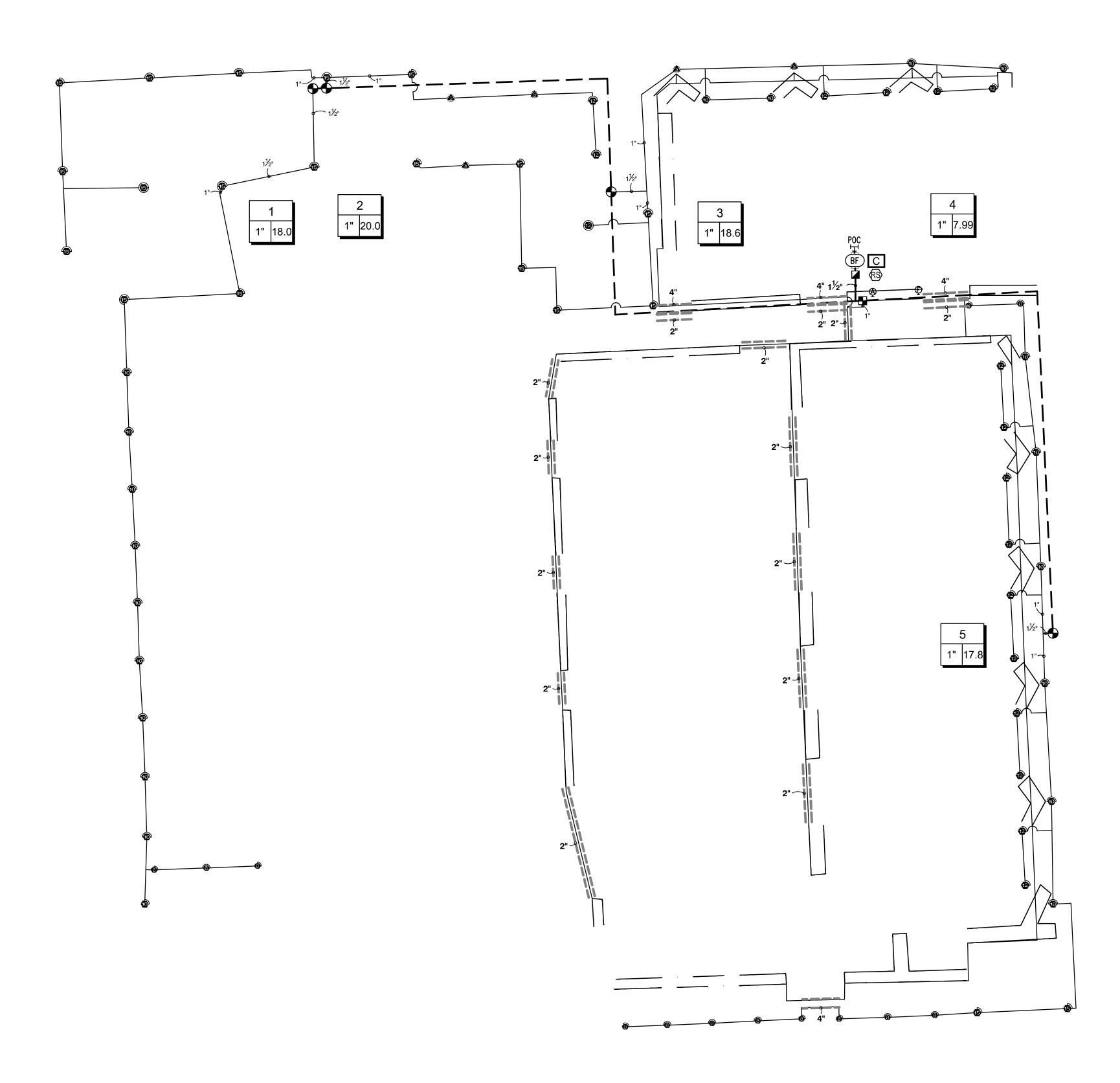
TWISTED 12 GAUGE WIRE

-4" DEEP HARDWOOD BARK

-REMOVE TOP 1/2 BURLAP AND ALL PLASTIC, CUT & REMOVE ALL NYLON CORD

-UNDISTURBED EARTH

FINISHED GRADE

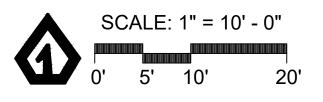


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	<u>QTY</u>
(A) (A) (A) (A) (A) ES LCS RCS CS SS	Hunter PROS-04 5` strip spray	5
ES LCS RCS CS SS	Hunter PROS-04 8` radius	13
	Hunter PROS-04 10` radius	20
	Hunter PROS-04 12` radius	17
	Hunter PROS-04 15` radius	20
SYMBOL	MANUFACTURER/MODEL	QTY
■	Rain Bird XCZ-100-PRF 1"	1
Ф	Flush Valve	1
(Drip Air Relief Valve	1
	Netafim TLDL-06-12	740.1 l.f.
SYMBOL	MANUFACTURER/MODEL	QTY
•	Hunter PGV-101G 1"	4
	Hunter HQ-44RC 1"	1
BF	Febco 765 1"	1
С	Hunter PC-400 with (01) PCM-300	1
RS	Hunter WSS	1
POC ビ	POC 1"	1
	Irrigation Lateral Line: Polyethylene Pipe 100 PSI 1"	1,330 l.f.
	Irrigation Lateral Line: Polyethylene Pipe 100 PSI 1 1/2"	37.6 l.f.
	Irrigation Mainline: PVC Class 160 SDR 26 1 1/2"	217.2 l.f.
	Pipe Sleeve: PVC Class 160 SDR 26 2"	107.5 l.f.
	Pipe Sleeve: PVC Class 160 SDR 26 4" Valve Callout	24.7 l.f.
# •	Valve Number	
#" #●	Valve Flow	
\	Valve Size	

IRRIGATION SPECIFICATIONS

- 1. IRRIGATION SYSTEM DESIGN BASED ON 20 GPM AT 70 PSI.
- 2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
- 3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- 4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- 5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- 6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
- 7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- 8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.
- 9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- 10. PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY
- 11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- 12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- 13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- 14. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.







1-800-347-4272

650 Stephenson Highway Troy, Michigan 48083 Phone 248.588.2100 Fax 248.588.3528 www.Siteone.com 800.347.4272

Project Name: 460 W. TEINKEN ROCHESTER HILLS, MI, 48308

Customer Name:

Drawn By:

12/18/19 Design Date:

C. GRAHAM Checked By:

REVISIONS Date

Drawing Title: IRRIGATION DESIGN

Drawing Scale:

Project Services Number: 204170

1" = 10'

Sheet Number:

IR-1



2. General site improvements.

1. New construction of for-rent two story townhouses.

GENERAL SCOPE OF WORK

PROJECT DATA

CITY OF ROCHESTER HILLS

GOVERNING CODES

GOVERNING CODES			2015 MICHIGAN UN	IFORM ENERGY CODE
BUILDING		R302.3	, ,	Y DWELLING UNITS (TOWNHOUSE) STANCE-RATE WALL ASSEMBLY DEPENDENT
ZONING			O-1 OFFICE, FB-1	FLEXIBLE BUSINESS OVERLAY
ALLOWABLE HEIGHT			2 STORIES / 30'-0"	
ACTUAL HEIGHT			2 STORIES / 24-0"	
AREA	FIRST FLOOR	SECOND FLOO	DR TOTAL	
UNIT 1	575 S.F.	370 S.F.	945 S.F.	
UNIT 2	575 S.F.	370 S.F.	945 S.F.	
UNIT 3	575 S.F.	370 S.F.	945 S.F.	
UNIT 4	575 S.F.	370 S.F.	945 S.F.	
UNIT 5	550 S.F.	360 S.F.	910 S.F.	
UNIT 6	575 S.F.	370 S.F.	945 S.F.	
UNIT 7	575 S.F.	370 S.F.	945 S.F.	
UNIT 8	575 S.F.	370 S.F.	945 S.F.	
UNIT 9	575 S.F.	370 S.F.	945 S.F.	
UNIT 10	525 S.F.	370 S.F.	895 S.F.	
UNIT 11	525 S.F. {	370 S.F.	895 S.F.	
UNIT 12	525 S.F.	370 S.F.	895 S.F.	
ROOM 050 - UTILITY/METER	155 S.F.	-	155 S.F.	ACCESSORY TO TOWNHOMES
ROOM 010 - MAIL/PACKAGE	140 S.F.	-	140 S.F.	ACCESSORY TO TOWNHOMES
TOTAL	TS X 1.5 PARKIN PROVIDED PAR NG SURPLUS OF	RKING SPACES =		ES REQUIRED

2015 MICHIGAN RESIDENTIAL CODE

FIRE RESISTANCE RATINGS

FRONT/SOUTH SIDE/EAST SIDE/WEST REAR/NORTH

FIRE SEPARATION ASSEMBLIES BETWEEN UNITS R302.2 EXTERIOR WALLS R302.1.1

AT ROOF

SETBACKS

2 HOUR BETWEEN DWELLING UNITS REQUIRED 2 HOUR PROVIDED

REQUIRED: 15' TO 25'

0 HOURS :: FIRE SEPARATION DISTANCE GREATER THAN 5 FEET OPENINGS IN WALLS R302.1.1 UNLIMINTED :: 0 HOURS :: FIRE SEPARATION DISTANCE GREATER THAN 5 FEET ONE LAYER OF 5/8 INCH TYPE X GYPSUM BOARD TO BE INSTALLED DIRECTLY BENEATH THE ROOF DECKING OR SHEATHING, SUPPORTED BY A MINIMUM OF NOMINAL 2-INCH LEDGERS ATTACHED TO THE SIDES OF THE

ROOF FRAMING MEMBERS, FOR A MINIMUM DISTANCE OF 4 FEET ON EACH SIDE OF THE WALL OR WALLS.

SIGNAGE

ALL SIGNAGE TO MEET CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER A SEPARATE PERMIT ISSUES BY THE BUILDING DEPARTMENT OF ROCHESTER HILLS, MI. SIGNAGE HAS NOT BEEN INCLUDED IN THIS SUBMITTAL.

SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

6435 APPLE ORCHARD LANE Owner: Consultant: ROCHESTER HILLS, MI 48306 ph: 248.805.1024

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Project: Drawing Issue: No. Date Description 01.28.2020 | SUBMITTAL REVISIONS 12.10.2019 SITE PLAN SUBMITTAL 11.07.2019 RH REVIEW SET 10.16.2019 INTERNAL REVIEW SET 09.10.2019 BID SET

460 W. TIENKEN a.k.a. Tienken Traillofts Rochster Hills, Michigan

Date: Drawn By: Scale: Checked By: DRAWING TITLE:

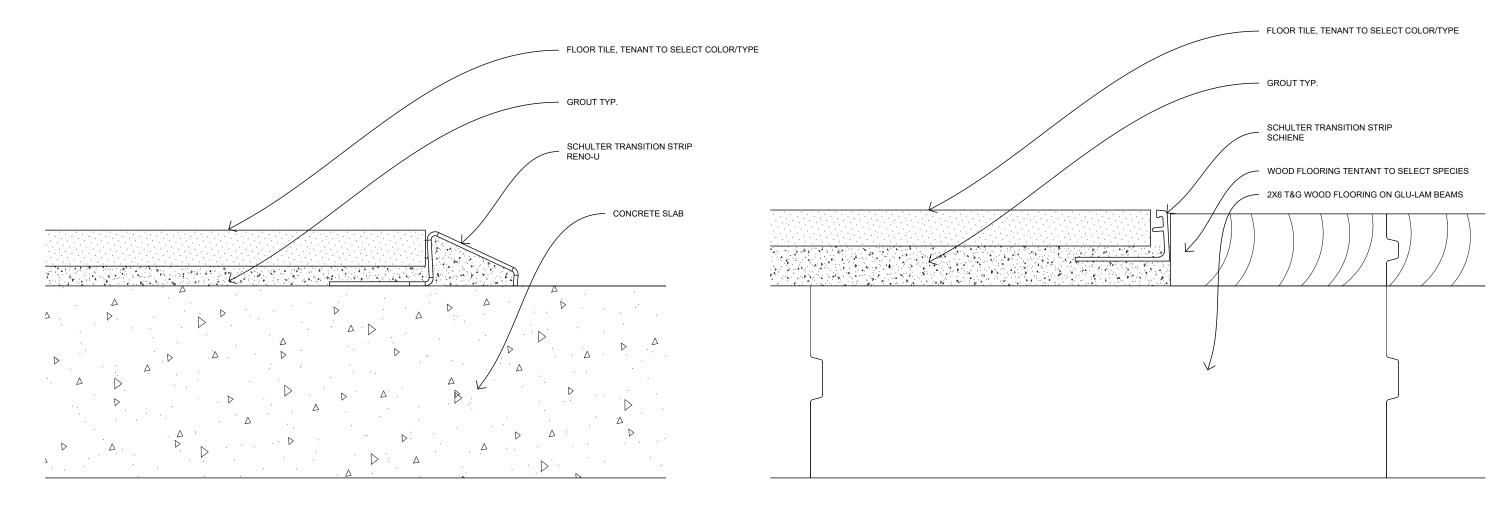
PROJECT DATA, KEY PLAN

FIRE SEPARATIONS

ARCHITECTURAL-010

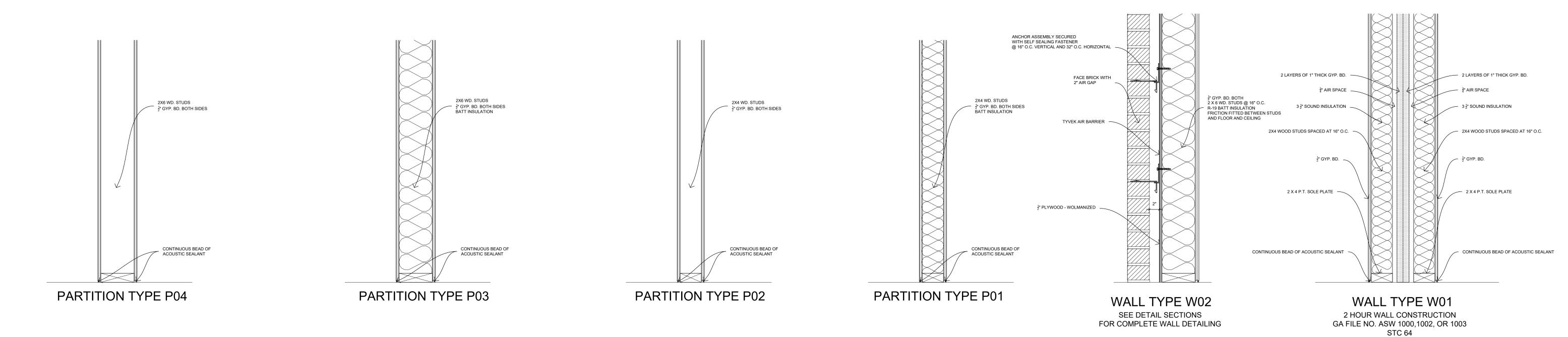
Drawing Number:







FLOOR TRANSITION 01 TILE TO WOOD



6435 APPLE ORCHARD LANE Owner: Drawing Issue: Consultant: Project: Architect: ROCHESTER HILLS, MI 48306 These drawings are instruments of service and as Date Description ph: 248.805.1024 such are the property of the Architect. The Architect's 01.28.2020 SUBMITTAL REVISIONS drawings, specifications and related documents are not to be used by the Owner or others on other 12.10.2019 SITE PLAN SUBMITTAL projects, for additions to this Project, or for completion 11.07.2019 RH REVIEW SET of this Project by others. 10.16.2019 INTERNAL REVIEW SET 09.10.2019 BID SET

460 W. TIENKEN a.k.a. Tienken Traillofts Rochster Hills, Michigan

Date: Drawn By: Drawing Number:

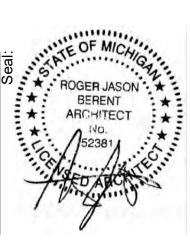
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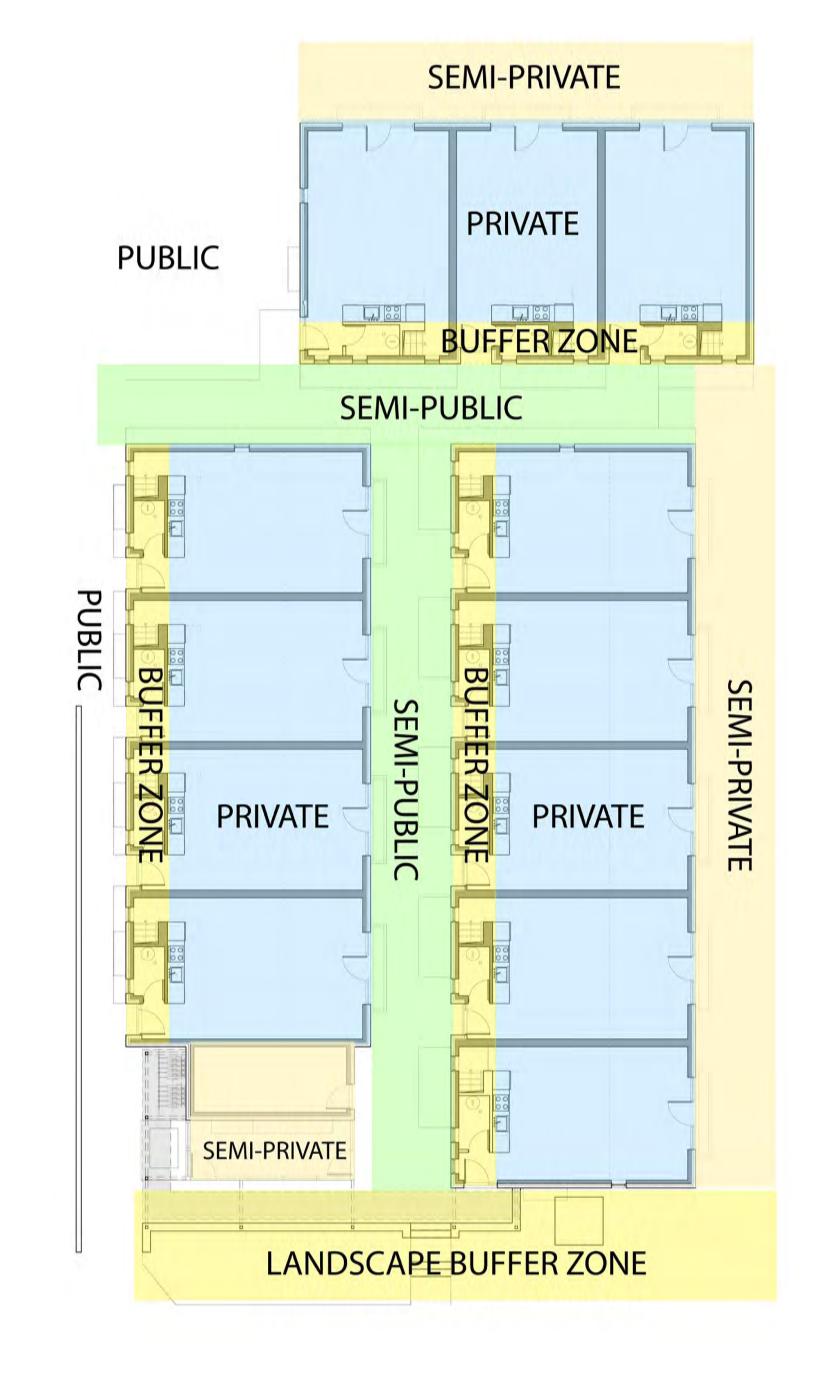
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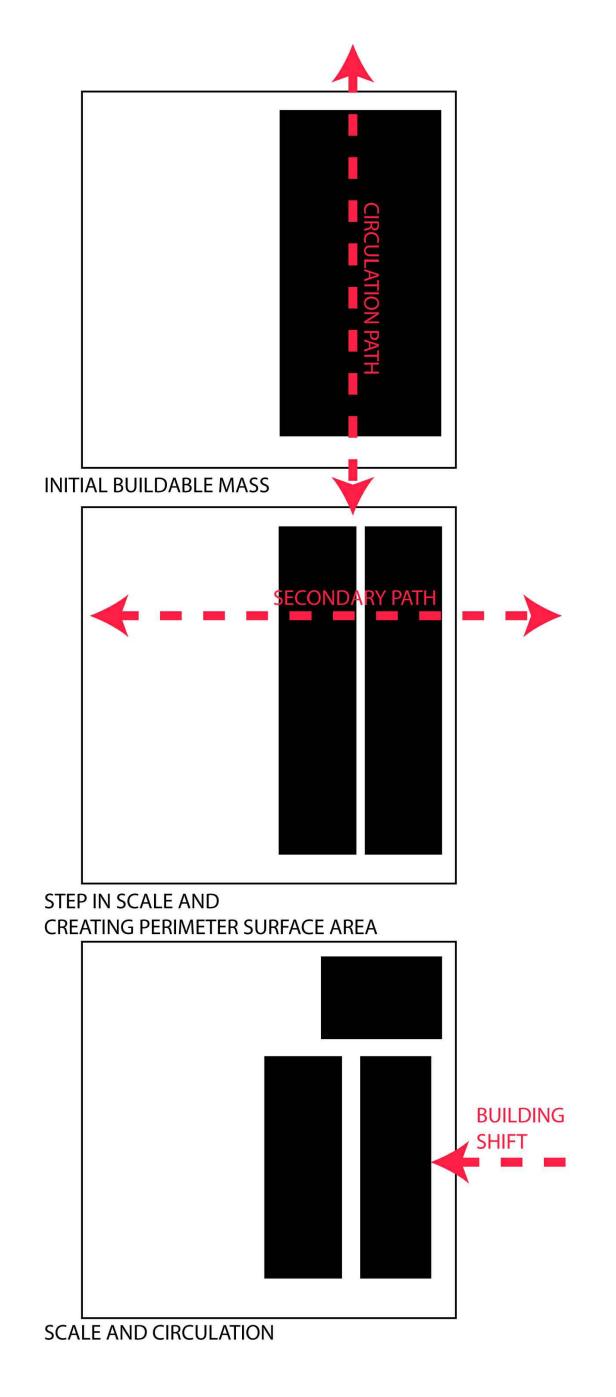
WALL TYPES
FLOOR TRANSITIONS

A-020
ARCHITECTURAL-020

FOR ALL SHAFT WALL REQUIREMENTS COORDINATE WITH MANUFACTURER



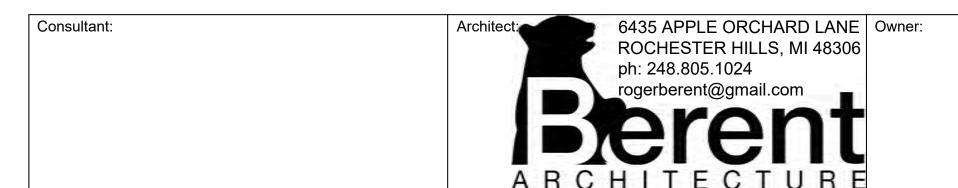




DESIGN DIAGRAM

DESIGN DIAGRAM

1 SCALE: N.T.S



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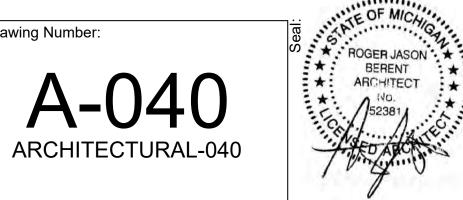
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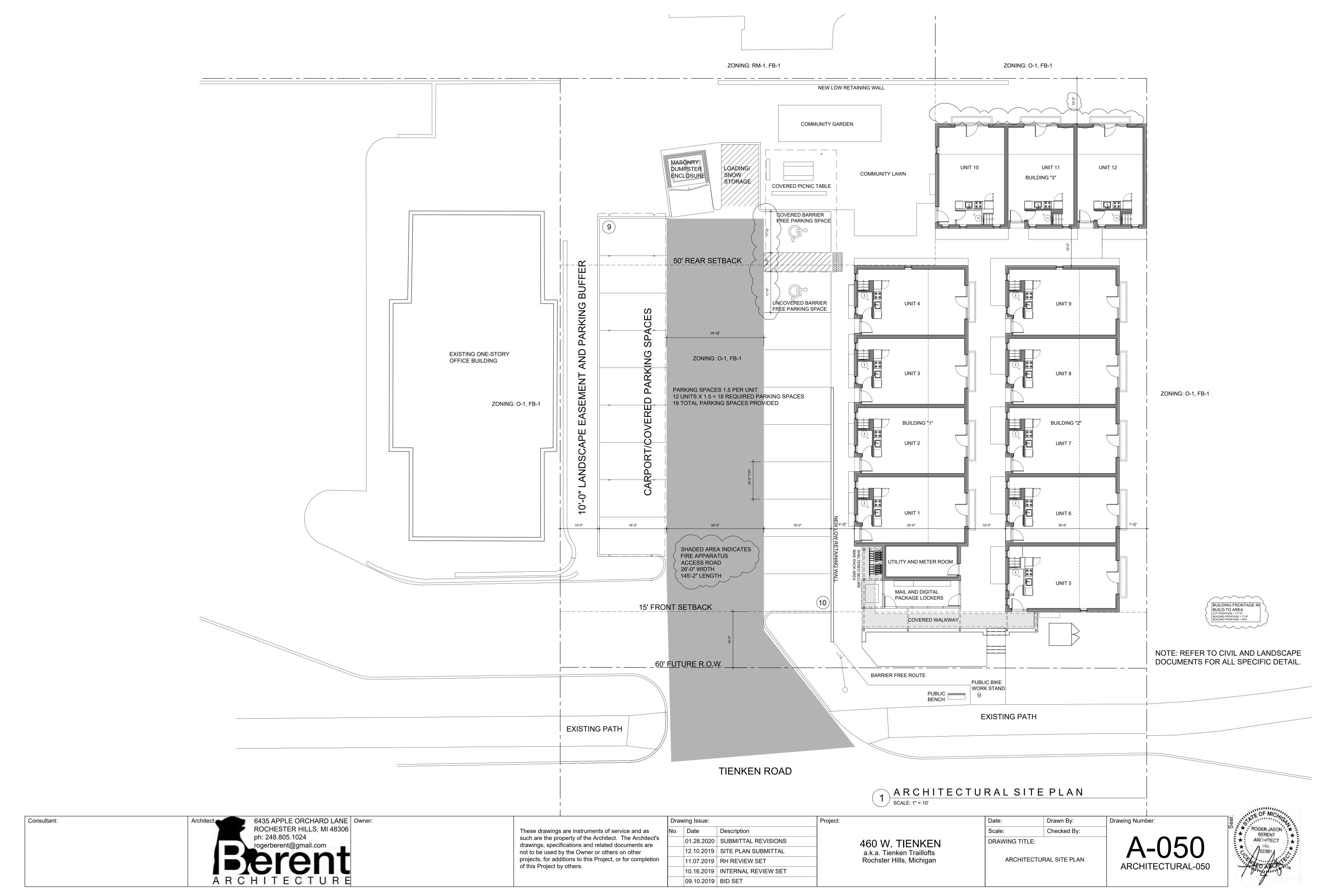
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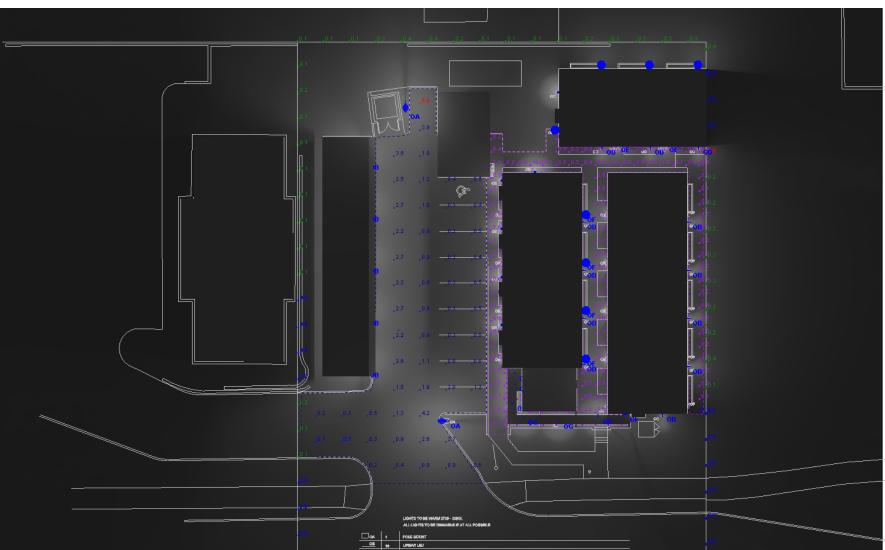
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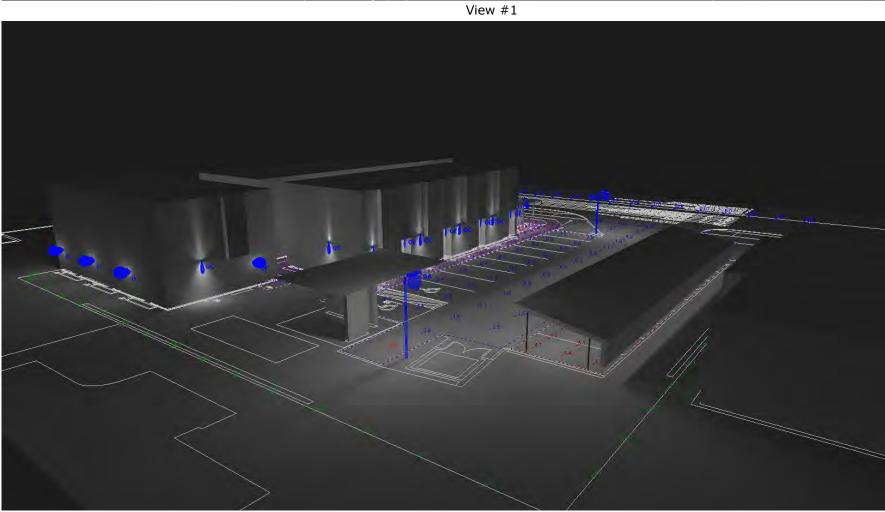
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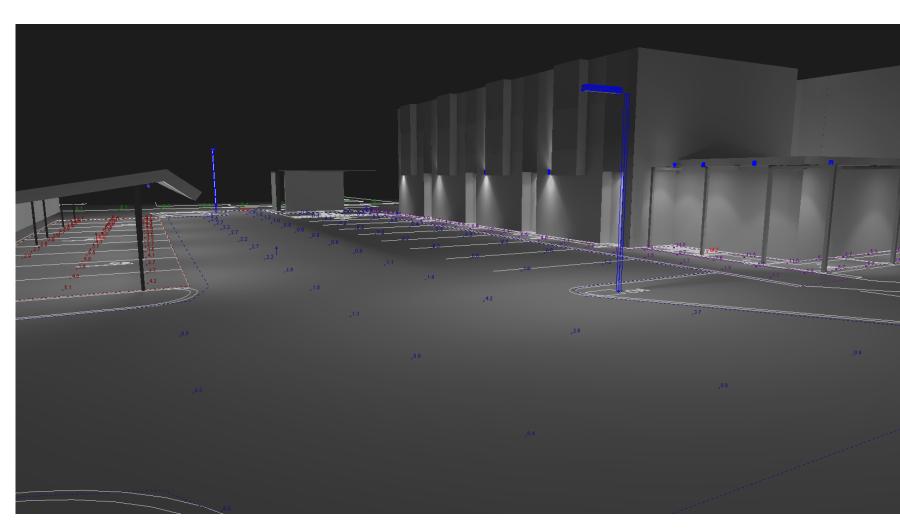
DESIGN DIAGRAMS

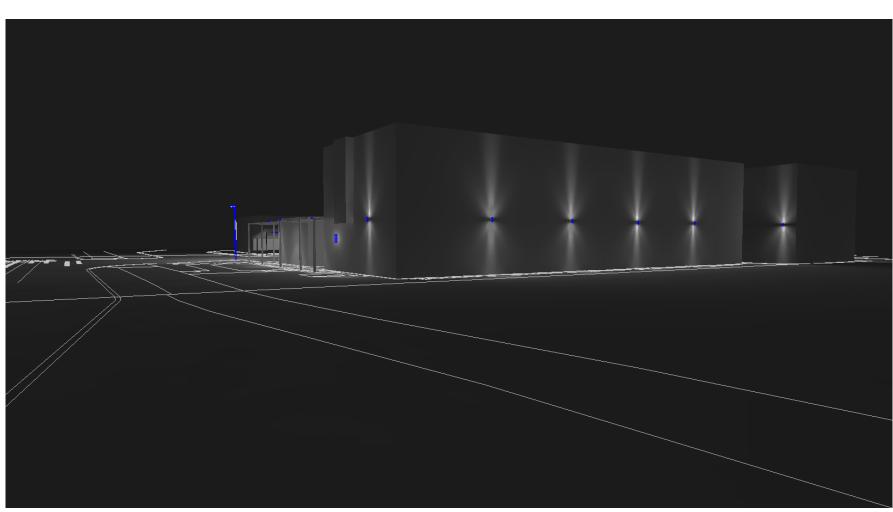






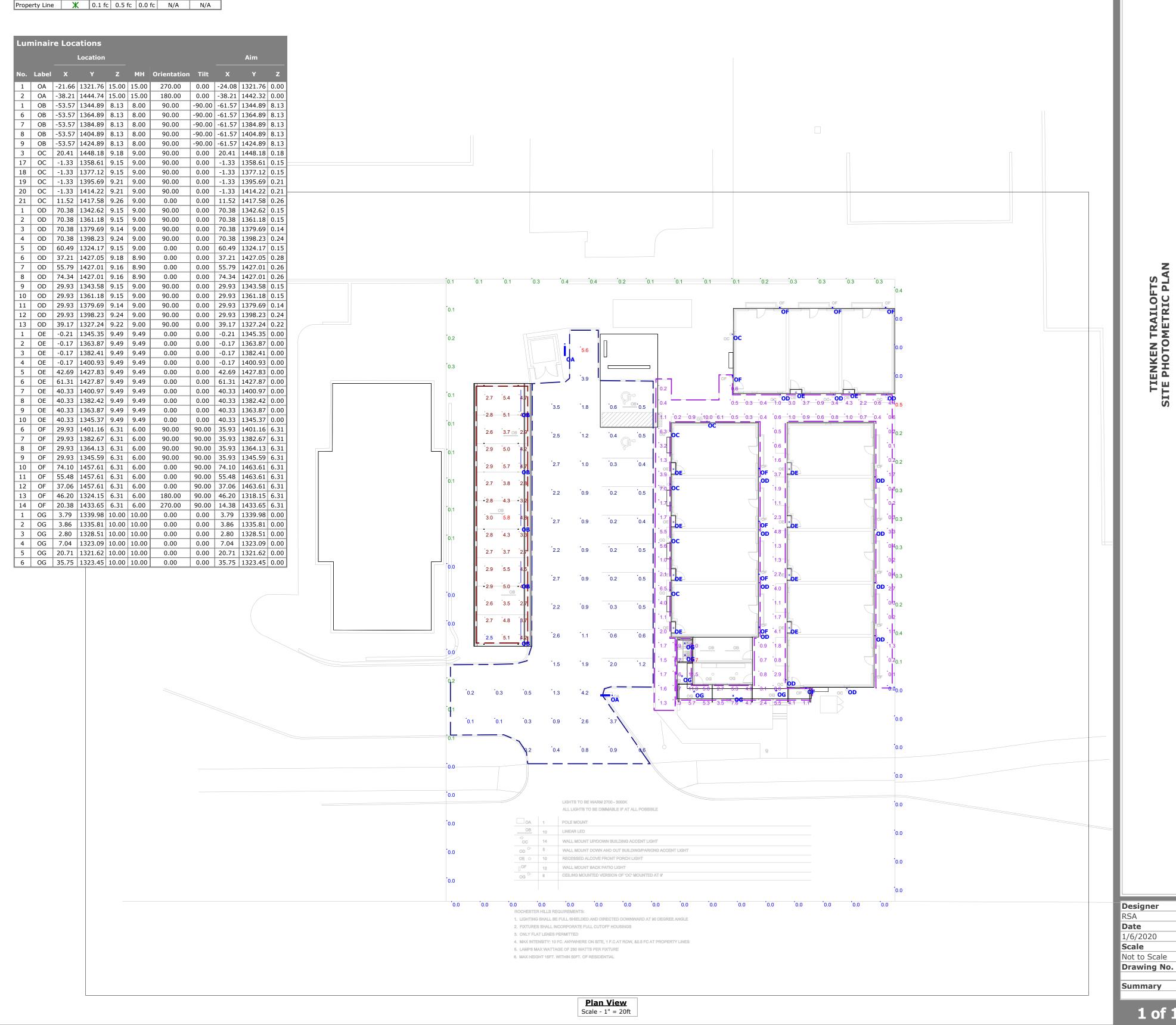






Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
i	OA	2	SOLERA	SOX-C-40-60W-LED-WW-TYPEIII	TYPE III POLE MOUNTED AREA LIGHT ON A 15' SQUARE STEEL POLE. 15' OVERALL MOUNTING HEIGHT MAX.		48	sox-394668.ies	134	0.9	66
	ОВ	5	CGF Design Inc	YU-48-HM-PGC-LED60W-CT5-UN\	Yuma Series Linear LED Surface Mount	INTEGRAL LED LIGHT ENGINE	1	YU-48-HM-PGC-LED60- CT5-UNV_103842377CHI- 003.ies	6405	0.45	59.5
	ОС	6	Liton Lighting Inc	WD2340B-BD45-BU02UE-DUN- T30	4" ROUND 2-DIRECTION WALL MOUNT (IP65) - 2 X 1000LM	INTEGRAL LED LIGHT ENGINE	1	WD2340B-BD45-BU02UE- DUN-T30.ies	1333	0.9	28.56
	OD	13	Liton Lighting Inc	WD2340B-BD02-BU02UE-DUN- T30	4" ROUND 2-DIRECTION WALL MOUNT (IP65) - 2 X 1000LM	INTEGRAL LED LIGHT ENGINE	1	WD2340B-BD02-BU02UE- DUN-T30.ies	425	0.9	29.16
	OE	10	Liton Lighting Inc	LRLD2521WW-L09B10-C90	2.5" RECESSED LED ROUND FLANGED DOWNLIGHT, 1000LM	INTEGRAL LED LIGHT ENGINE	1	LRLD2521WW-L09B10- C90.ies	1443	0.9	15
	OF	9	Norwell Manufacturing Co., Inc.	1235-MB-AC	4" WIDE WALL MOUNTED EXTERIOR LED WALL SCONCE	INTEGRAL LED LIGHT ENGINE	1	1235-MB-AC.IES	390	0.9	16.72
	OG	6	Liton Lighting Inc	DL340BUE-DUN	4" ROUND CEILING DOWNLIGHT (IP65)	INTEGRAL LED LIGHT ENGINE	1	DL340BUE-DUN.ies	863	0.9	14.48

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #4		2.7 fc	14.7 fc	0.0 fc	N/A	N/A
Carports	+	3.8 fc	5.8 fc	2.5 fc	2.3:1	1.5:1
Parking & Drive	♦	1.3 fc	5.6 fc	0.1 fc	56.0:1	13.0:1
D 1 1:	NZ	0.4.6	٥٠٠	000	N1 / A	D1 / D



IENKEN TRAILOFTS E PHOTOMETRIC PLAN

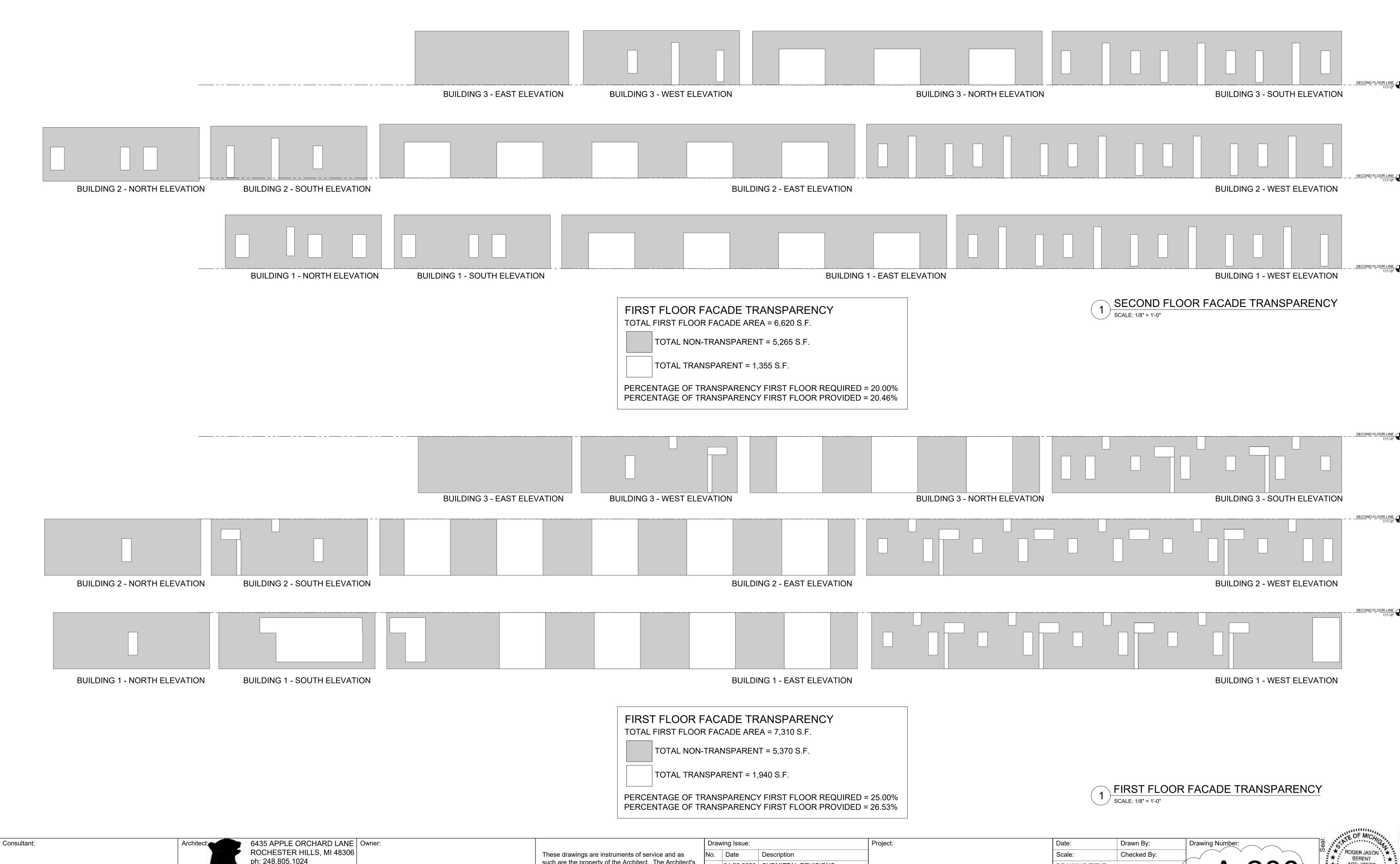
1 of 1



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

6435 APPLE ORCHARD LANE Owner: ROCHESTER HILLS, MI 48306 Drawing Issue: Drawing Number: Consultant: Project: Date: Drawn By: Checked By: Scale: No. Date These drawings are instruments of service and as Description ph: 248.805.1024 such are the property of the Architect. The Architect's drawings, specifications and related documents are 01.28.2020 SUBMITTAL REVISIONS DRAWING TITLE: 460 W. TIENKEN not to be used by the Owner or others on other projects, for additions to this Project, or for completion 12.10.2019 SITE PLAN SUBMITTAL a.k.a. Tienken Traillofts Rochster Hills, Michigan FLOOR PLANS 11.07.2019 RH REVIEW SET ARCHITECTURAL-100 of this Project by others. 10.16.2019 INTERNAL REVIEW SET 09.10.2019 BID SET





ROGER JASON *
BERENT
* ARCHITECT
(No.)
52381

DRAWING TITLE:

ELEVATIONS
FACADE TRANSPARENCY

ARCHITECTURE

ARCHITECTURE





BUILDING MATERIAL %'s (TOTAL) PRIMARY BUILDING MATERIAL %'s

FACE BRICK = 46% KNOTWOOD SIDING = 19.6%

TOTAL = 65.6%

ACCENT BUILDING MATERIAL %'s GLASS = 23.4% CAST STONE = 9.0% STANDING SEAM METAL = 2.0%

TOTAL = 34.4%







STANDING SEAM METAL

MANUFACTURER: SIZE: FINISH: COLOR:

PAC-CLAD SNAP-ON STANDING SEAM 10" PANEL - 1" HIGH PRE-FINISHED ALUMINUM **BLACK**



SIDING

MANUFACTURER: TYPE: SIZE: FINISH:

COLOR:

KNOTWOOD ALUMINUM WOOD-LOOK SIDING 4" DECKING BOARD PRE-FINISHED ALUMINUM DRIFTWOOD



FACE BRICK

MANUFACTURER: FACE BRICK TYPE: SIZE: STANDARD MODULAR FINISH: ABERDEEN COLOR:



CAST STONE VENEER

MANUFACTURER: TYPE: SIZE: FINISH: COLOR:

CONTINENTAL CAST STONE DESIGNER COLLECTION MODULAR SPLITFACE WHITESTONE 1100



VERTICAL BIKE RACK

VERTICAL+ NO SCRATCH WALL MOUNT BIKE RACK WALL MOUNT 12 BIKES TYPE: SIZE:

FINISH: COLOR: POWDER COAT BLACK

NOTE: IMAGES SHOW PROJECT PERIMETER ELEVATIONS WITH BUILDING MATERIALS AND BASE BUILDING PLANTINGS. NOT ALL LANDSCAPE IS REPRESENTED IN THE IMAGES. REFER TO LANDSCAPE PLAN FOR DETAILS.

SCALE: N.T.S.

6435 APPLE ORCHARD LANE Owner: Architect: ROCHESTER HILLS, MI 48306 ph: 248.805.1024

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Drawing Issue: No. Date Description 01.28.2020 | SUBMITTAL REVISIONS 12.10.2019 SITE PLAN SUBMITTAL 11.07.2019 RH REVIEW SET 10.16.2019 INTERNAL REVIEW SET

09.10.2019 BID SET

460 W. TIENKEN a.k.a. Tienken Traillofts Rochster Hills, Michigan

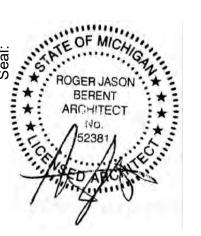
Project:

Date: Drawn By: Scale: Checked By: DRAWING TITLE:

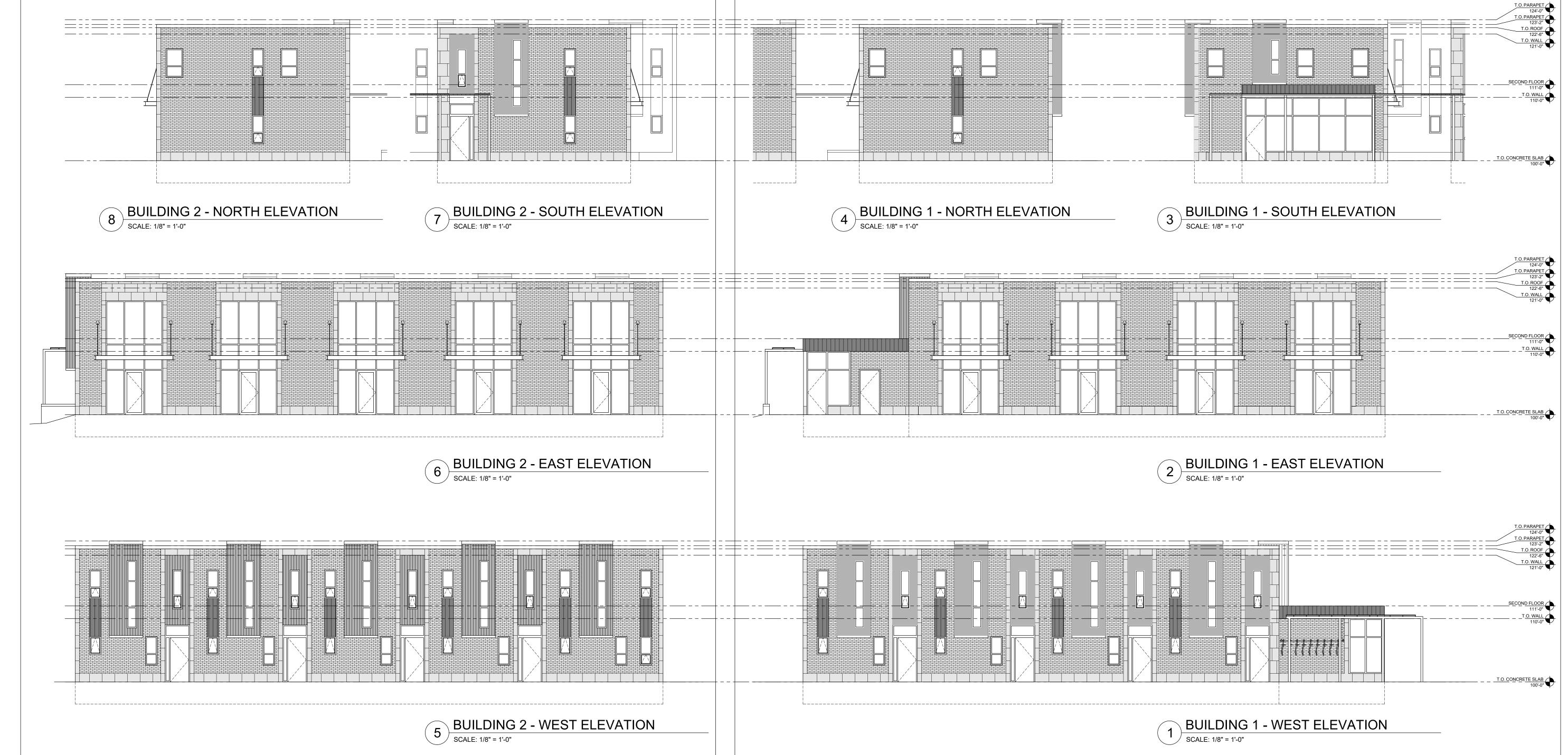
ELEVATIONS

Drawing Number:

ARCHITECTURAL-300









Consultant:

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Drawing Issue:

No. Date Description

01.28.2020 SUBMITTAL REVISIONS

12.10.2019 SITE PLAN SUBMITTAL

11.07.2019 RH REVIEW SET

10.16.2019 INTERNAL REVIEW SET

09.10.2019 BID SET

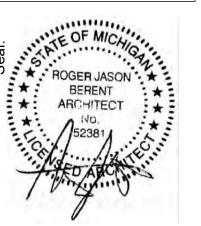
460 W. TIENKEN a.k.a. Tienken Traillofts Rochster Hills, Michigan

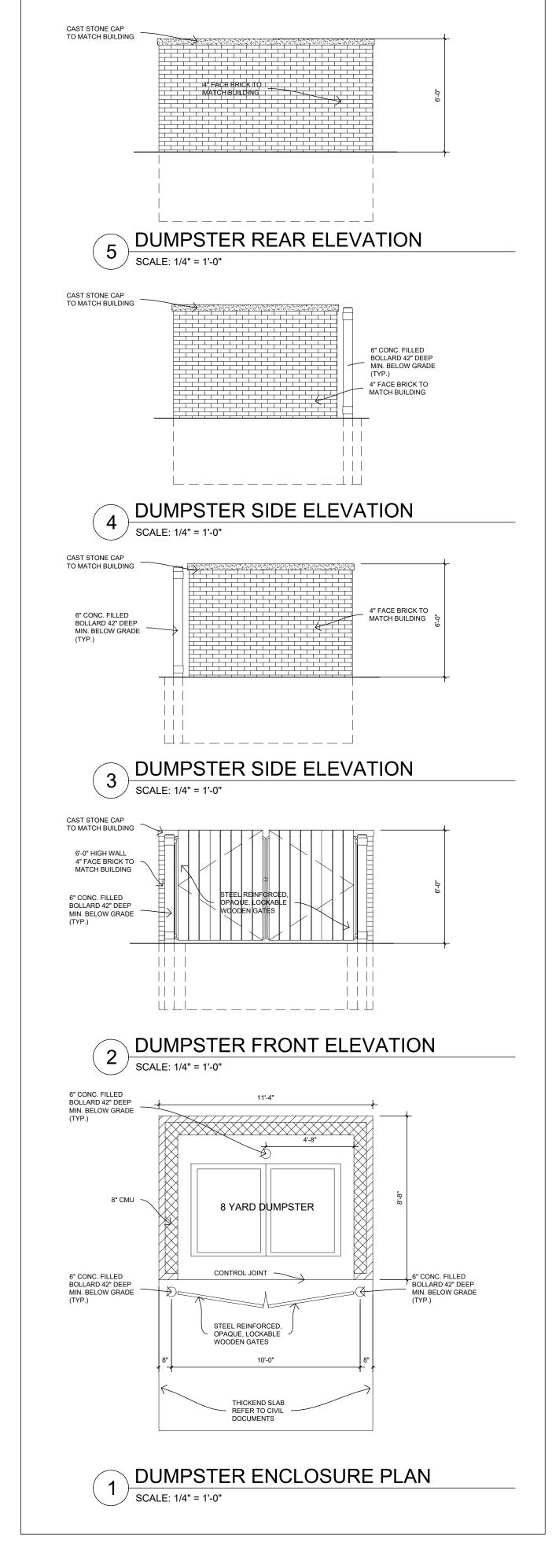
Project:

Date: Drawn By:
Scale: Checked By:
DRAWING TITLE:

ELEVATIONS

A-310
ARCHITECTURAL-310







RETAINING WALLS

TO BE DETERMINED SEGMENTAL RETAINING WALL MODULAR TYPE: SIZE:

FINISH: CONCRETE COLOR:

LOOK AND FEEL TO MATCH RETAINING WALL ON ADJACENT SITE







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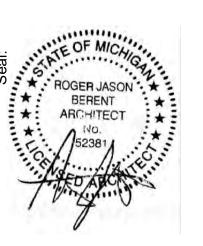
Drawing Issue:							
No.	Date	Description					
	01.28.2020	SUBMITTAL REVISIONS					
	12.10.2019	SITE PLAN SUBMITTAL					
	11.07.2019	RH REVIEW SET					
	10.16.2019	INTERNAL REVIEW SET					
	09.10.2019	BID SET					

460 W. TIENKEN

Date: Drawn By: Scale: Checked By: DRAWING TITLE:

ELEVATIONS

Drawing Number:



Consultant:

PUBLIC BENCH

PUBLIC AMENITIES

MANUFACTURER:

TYPE: COLOR:

NORTHGATE 8' METAL PARK BENCH BLACK



Consultant: