biddison architecture + design

t:248.554.9500

320 Martin Street Suite 10

Contact Person: Kevin Biddison

e.mail: kb@biddison-ad.com

Birmingham, MI 48009

PROPOSED SHELL BUILDING FOR:

Campus Corners Outlot

CONDITIONS OF WORK

CONSTRUCTION COORDINATION:

1. ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS & ARE RESPONSIBLE FOR A COMPLETE REVIEW & SITE VISIT. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT SET & NO "EXTRAS" FOR MISSED ITEMS IN OTHER SECTIONS WILL BE PERMITTED. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERRORS WHICH THEY DISCOVER UPON EXAMINATION OF DOCUMENTS, THE SITE OR LOCAL

2. ANY CONTRACTOR OR SUBCONTRACTOR BY SUBMITTING A BID WARRANT'S THAT HE HAS VISITED THE SITE AND IS AWARE OF ANY AND ALL SITE CONDITIONS AFFECTING HIS BID.

3. THE CONTRACTOR BY COMMENCING WORK ACCEPTS THE CONDITIONS OF THE SITE & THE COMPLETENESS OF CONTRACT DOCUMENTS

4. FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT. DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY.

5. ANY MATERIAL OR LABOR NEITHER SHOWN ON THE DRAWINGS NOR SPECIFIED. BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK IN A WORKMANLIKE MANNER SHALL BE FURNISHED WITHOUT COST TO THE OWNER.

6. ALL MATERIALS FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR SHALL BE FREE FROM DEFECTS. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF (1) YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING THIS PERIOD THE GENERAL CONTRACTOR SHALL CORRECT ANY PROBLEMS DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP AT NO COST TO THE OWNER. ANY PROBLEM THAT OCCURS DURING CONSTRUCTION SHALL IMMEDIATELY BE CORRECTED TO THE SATISFACTION OF THE OWNER.

7. NO SUBSTITUTIONS OF SPECIFIED MATERIAL OR EQUIPMENT WILL BE ACCEPTED UNLESS WRITTEN REQUEST FOR APPROVAL HAS BEEN RECEIVED BY THE ARCHITECT AND CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM ARCHITECT.

8. DURING AND AT THE COMPLETION OF THE CONTRACTOR'S DAILY WORK, CONTRACTOR IS RESPONSIBLE FOR THE CLEANING UP AND REMOVAL OF ALL RUBBISH AND DEBRIS BEFORE LEAVING THE PROJECT JOB SITE.

1. GENERAL CONTRACTOR SHALL APPLY & SUBMIT FOR BUILDING PERMIT.

LANDLORD'S WORK OR STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL.

2. GENERAL CONTRACTOR SHALL OBTAIN "ALL RISK" INSURANCE AND ALL CUSTOMARY STATUTORY INSURANCE FOR COMPREHENSIVE GENERAL LIABILITY, ETC. AS REQUIRED BY

FIXTURES, ETC. IN LEASED SPACE FROM LOSS OR DAMAGE FROM FIRE, THEFT OR 4. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH

3. GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS.

ACT (OSHA). THE FOLLOWING ARE STRICTLY PROHIBITED WORK PRACTICES. A. ANY COMBUSTIBLE MATERIALS ABOVE FINISHED CEILING OR IN ANY NON-SPRINKLED

B. IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT ON ANY PART OF THE

C. CUTTING ANY HOLES IN LANDLORD'S EXISTING FLOOR SLABS, WALLS OR ROOF WITHOUT PROPER APPROVAL'S PROPER APPROVALS FROM LANDLORD. BEFORE STARTING ANY UNDERSLAB WORK CONTRACTORS MUST CHECK WITH THE LANDLORD OR SUPERINTENDENT OF THE LANDLORD'S GENERAL CONTRACTOR TO DETERMINE IF ANY COMMON UTILITY OR OTHER TENANT UTILITY LINES EXIST WITHIN THE SPACE.

CODE COMPLIANCE:

1. WORK INDICATED IS TO BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE CODES.

2. FIRE EXTINGUISHERS SHALL BE PROVIDED BY G.C. AND INSTALLED PER THE BUILDING DEPARTMENT FIELD INSPECTOR'S INSTRUCTIONS.

3. ALL WALL FINISHES TO MEET CLASS B FLAME SPREAD RATING FOR "A-2" USE-GROUP TENANT SPACES AND CLASS C FLAME SPREAD RATING FOR "M" AND "B" USE-GROUP TENANT

4. INTERIOR FINISHES IN EXIT ACCESS CORRIDORS AND OTHER EXIT WAYS IN NON-SPRINKLERED BUILDINGS UNDER USE GROUPS "B," "M" AND "A-2" ARE REQUIRED TO HAVE AT LEAST A CLASS A: FLAME SPREAD 0-25/SMOKE DEVELOPED 0-450 RATING AS LISTED IN THE 2015 MICHIGAN BUILDING CODE.

5. SAFETY GLAZING MUST HAVE PERMANENT IDENTIFICATION IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE

6. ALL REQUIREMENTS OF THE MICHIGAN BARRIER FREE ACT & THE AMERICAN'S WITH DISABILITIES ACT SHALL BE MAINTAINED.

7. ALL ENTRANCE AND EXIT DOORS SHALL HAVE BARRIER FREE ACCESSIBILITY.

8. TO COMPLY WITH ADA REQUIREMENTS, CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE RAMPED AND CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED A MAXIMUM OF

9. SIGNAGE INDICATING ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AT EACH DOOR TO AN EXIT DISCHARGE. A TACTILE SIGN STATING EXIT AND COMPLYING WITH ICC/ANSI A117.1 SHALL BE PLACED ADJACENT TO THE DOOR. PLEASE REFER TO SHEET A. 601 FOR ADDITIONAL INFORMATION AND LOCATION.

IN RESPONSIBLE CHARGE DEFERRED SUBMITTAL STATEMENT:

DESIGN PROFESSIONAL IN CHARGE: KEVIN BIDDISON, AIA

BIDDISON ARCHITECTURE + DESIGN MI REGISTRATION #34144

THESE CONSTRUCTION DOCUMENTS WERE PREPARED FOR COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES IN EFFECT AT TIME OF PERMIT SUBMITTAL. ALL ENGINEERS. CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR ROCHESTER HILLS CONSTRUCTION BOARDS OF APPEALS RULINGS AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED SUBMITTAL ITEMS FOR THIS

- REVIEW OF THE ALUMINUM-FRAMED STOREFRONT SHOP DRAWINGS: - REVIEW OF STRUCTURAL SHOP DRAWINGS

(1) COPY OF EACH DEFERRED SUBMITTAL WILL BE SUBMITTED TO THE CITY ALONG WITH AN APPROVAL LETTER OF THE DEFERRED SUBMITTAL BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AS REQUIRED.

FIRE PROTECTION NOTES:

PERMITS & SAFETY:

TYPE 2A FIRE EXTINGUISHERS SHALL BE PROVIDED AND SPACED A MAX. OF 75' APART PER SECTION 906.1 OF THE 2015 INTERNATIONAL FIRE CODE AND / OR BY THE DIRECTION OF THE

SHOULD ANY FUTURE TENANT SPACE BE A RESTAURANT OR SIMILAR USE AND HAVE AN AREA GREATER THAN 5,000 S.F. OR AN OCCUPANT LOAD OF 100 OR GREATER, A FIRE SUPPRESSION SYSTEM WILL BE REQUIRED PER SECTION 903.1.1.2.

LEGAL DESCRIPTION

LAND SITUATED IN THE CITY OF ROCHESTER HILLS, COUNTY OF OAKLAND, STATE OF MICHIGAN **DESCRIBED AS:**

PART OF THE NORTHWEST 1/4 OF SECTION 15. TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN DESCRIBED AS: BEGINNING AT POINT DISTANT SOUTH 01 DEGREES 40 MINUTES 40 SECONDS WEST, ALONG THE WEST LINE OF SAID SECTION 15, 625.84 FEET FROM NORTHWEST CORNER OF SAID SECTION 15; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS FAST, 220,00 FEFT: THENCE SOUTH 01 DEGREES 40 MINUTES 40 SECONDS WEST, 283,00 FEFT: THENCE NORTH 87 DEGREES 57 MINUTES 08 SECONDS WEST. 220.00 FEET TO THE WEST LINE OF SAID SECTION 15; THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST, ALONG SAID LINE, 283.00 FEET TO POINT OF BEGINNING, EXCEPT THE WEST 60.00 FEET THEREOF CONVEYED TO THE BOARD OF COUNTY ROAD COMMISSIONERS OF THE COUNTY OF OAKLAND. AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 6248, PAGE 573, OAKLAND COUNTY RECORDS, ALSO EXCEPT THAT PART DESCRIBED AS: BEGINNING AT POINT DISTANT SOUTH 01 DEGREES 40 MINUTES 40 SECONDS WEST, 625.84 FEET ALONG THE WEST LINE OF SAID SECTION 15; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST, 60.00 FEET NORTHWEST CORNER OF SAID SECTION 15 TO THE POINT OF BEGINNING: THENCE CONTINUING SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST 10 00 FEFT: THENCE SOUTH 11 DEGREES 38 MINUTES 21 SECONDS WEST, 57.81 FEET; THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST 57.00 FEET ALONG A LINE 60.00 FEET EAST OF MEASURED AT RIGHT ANGLES TO AND PARALLEL WITH THE WEST LINE OF SAID SECTION 15 TO THE POINT OF BEGINNING. CONVEYED TO THE BOARD OF COUNTY ROAD COMMISSIONERS OF THE COUNTY OF OAKLAND. AS DISCLOSED BY INSTRUMENTS

RECORDED IN LIBER 15627, PAGE 525, OAKLAND COUNTY RECORDS.

TAX ID: 15-15-101-014

PART OF NORTHWEST 1/4 OF SECTION 15, TOWN 3 RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING AT POINT DISTANT SOUTH 01 DEGREE 40 MINUTES 40 SECONDS WEST, ALONG THE WEST LINE OF SAID SECTION 15, 1,143.84 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 15; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST 220.00 FEET: THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST, 195.00 FEET: THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST, 473.09 FEET; THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 400.00 FEET; THENCE NORTH 89 DEGREES 10 MINUTES 52 SECONDS WEST. 688.74 FEET TO THE WEST LINE OF SAID SECTION 15; THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST, ALONG SAID LINE, 219.28 FEET TO THE POINT OF BEGINNING, EXCEPT THE WEST 60.00 FEET THEREOF CONVEYED TO THE BOARD OF COUNTY ROAD COMMISSIONERS OF THE COUNTY OF OAKLAND. AS DISCLOSED BY INSTRUMENT RECORDED IN LIBER 6248, PAGE 573, OAKLAND COUNTY RECORDS.

PART OF THE NORTHWEST 1/4 OF SECTION 15, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, BUILDING FOUNDATION LINES AND ON THE SOUTH BY THE SOUTH PROPERTY LINE AND DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF SAID SECTION 15, THENCE EAST ALONG THE NORTH LINE OF SAID SECTION 15, 200.00 FEET; THENCE SOUTH 01 DEGREES 40 MINUTES 40 SECONDS WEST, 60.03 FEET; THENCE EAST 403.36 FEET; THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 222.95 FEET: THENCE EAST 100.00 FEET: THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 691.00 FEET: THENCE NORTH 87 DEGREES 57 MINUTES 08 SECONDS WEST, 129.40 FEET TO THE PINT OF BEGINNING; THENCE NORTH 87 DEGREES 57 MINUTES 08 SECONDS WEST, 125.00 FEET; THENCE NORTH 02 DEGREES 18 MINUTES 20 SECONDS EAST, 30.67 FEET TO THE SOUTHWEST CORNER OF BUILDING; THENCE ALONG BUILDING SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST, 125.00 FEET TO THE SOUTHEAST CORNER OF / THE BUILDING; THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 30.11 FEET TO THE POINT OF BEGINNING.

PART OF THE NORTHWEST 1/4 OF SECTION 15, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS: BEGINNING AT POINT DISTANT SOUTH 01 DEGREE 40 MINUTES 40 SECONDS WEST, ALONG THE WEST LINE OF SAID SECTION 15. 948.84 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 15: THENCE SOUTH 87 DEGREES 57 MINUTES 08. SECONDS EAST, 220.00 FEET; THENCE SOUTH 01 DEGREES 40 MINUTES 40 SECONDS WEST, 195.00 FEET; THENCE NORTH 87 DEGREES 57 MINUTES 08 SECONDS WEST, 220.00 FEET TO THE WEST LINE OF SAID SECTION 15; THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST, ALONG SAID LINE, 195.00 FEET TO THE POINT OF BEGINNING, EXCEPT THE WEST 60.00 FEET THEREOF CONVEYED TO THE BOARD OF COUNTY ROAD COMMISSIONERS OF THE COUNTY OF OAKLAND, AS DISCLOSED Y INSTRUMENT RECORDER IN LIBER 6248, PAGE 573, OAKLAND COUNTY RECORDS.

ALSO DESCRIBED FOR TAX PURPOSES AS FOLLOWS: PART OF THE NORTHWEST 1/4 OF SECTION 15, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS; BEGINNING AT POINT DISTANT SOUTH 01 DEGREE 40 MINUTES 40 SECONDS WEST, 948.84 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 15; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST, 438.69 FEET; THENCE NORTH 02 DEGREES 18 MINUTES 20 SECONDS EAST, 30.67 FEET; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST 125.00 FEET; THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 30.11 FEET; THENCE SOUTH 87 DEGREES 57 MINUTES 08 SECONDS EAST. 129.40 FEET; THENCE SOUTH 02 DEGREES 18 MINUTES 20 SECONDS WEST, 400.00 FEET; THENCE NORTH 89 DEGREES 10 MINUTES 52 SECONDS WEST, 688.74 FEET; THENCE NORTH 01 DEGREES 40 MINUTES 40 SECONDS EAST, 414.78 FEET TO THE POINT OF BEGINNING, EXCEPT THE WEST 60.00 FEET THEREOF TAKEN FOR ROAD.

NOTE: THE TAX DESCRIPTION DESCRIBES THE SAME PROPERTY DESCRIBED AS PARCEL 2 ABOVE

OCCUPANCY CLASSIFICATION: A2

 \rightarrow 8,154 S.F. (PROPOSED LARGEST SINGLE FLOOR AREA)

PROJECT LOCATION: 185 S. Livernois Rochester Hills, Michigan

APPLICANT INFORMATION:

Campus Corners Associates 1334 Maplelawn Drive Troy, Michigan 48084 Phone: (248) 649-2924 Fax: (248) 649-2373 Contact person: Stuart Frankel

Project data

Consultants

	-			
SHEET	INDEX:	GOVERNING CO	20	015 MICHIGAN BUILDING CODE 015 MICHIGAN PLUMBING CODE 015 MICHIGAN MECHANICAL CODE
T.101	TITLE SHEET		20 20	015 INTERNATIONAL FUEL GAS CODE 014 N.E.C. MICHIGAN ELECTRICAL CODE,
SP 101	SITEPLAN		IC	V/ PART 8 STATE AMENDMENTS C/ANSI A117.1-2003 AND MICHIGAN ARRIER FREE DESIGN LAW OF 1966 AS
C0 C1 C2 C3 C4	CIVIL ENGINEERING COVER BOUNDARY / TOPO SURVEY DEMOLITION PLAN PAVING AND GRADING PLAN UTILITY PLAN		20 RI S ⁻ 20 NI	MENDED. 015 MICHIGAN UNIFORM ENERGY CODE ULES PART 10 WITH ANSI/ASHRAE/IESNA FANDARD 90.1 015 INTERNATIONAL FIRE CODE FPA 13 - 2010 FPA 72 - 2007
C5 C6	PROFILE, DETAILS AND CALC. SOIL EROSION/DRAINAGE ARE)	M A B	IIXED SEPARATED USE PER 2015 IBC S508.4: SSEMBLY A-2 USINESS B
L1 L2	LANDSCAPE PLAN LANDSCAPE DETAILS	2	2	IERCANTILE M HOUR FIRE BARRIER REQ'D ETWEEN A-2 & ANY B OR M USE
	STORM SYSTEM STANDARD D WATER MAIN DETAILS 1	ETAILS		ROUP/TENANT SPACE (PER TABLE 07 & S.508.4).
	WATER MAIN DETAILS 2 WATER MAIN DETAILS 3 SANITARY DETAILS 1	BUILDING AREA BUILDING USE:	\ :	8,154 S.F. BUSINESS: -B RESTAURANT: A-2
^ ^	SANITARY DETAILS 2	TYPE OF COMS	STRUCTION	· ·
SP.401 SE.101	SITE DETAILS SITE ELECTRICAL PLAN		2015 MBC NFPA 220 NFPA 220	TYPE II-000

CAMPUS CORNER BIDDISON/1

SITE PLAN REVIEW

SITE PLAN REVIEW

(1) PER CITY REVIEW

(2) REVISIONS PER CITY

(3) REVISIONS PER CITY

Sheet no.

TYPE: II-B

 \rightarrow (1) STORY: 20'-0" (< 55'-0 TABLE 504.3)

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLAN: \rightarrow (2) STORY ALLOWABLE, TABLE 504.4)

 \rightarrow 8,500 S.F. ALLOWABLE LARGEST SINGLE FLOOR AREA)

CITY FILE #: 18-001

PHOTOMETRIC PLAN

FLOOR PLAN

ELEVATIONS

Issued for

11.14.17

12.29.17

03.09.18

03.13.19

03.13.19

2001.17

Project no.

GENERAL SITE NOTES:

- 1. WHERE INDICATED, PROVIDE 12" X 18" ALUMINUM "RESERVED PARKING" SIGN WITH SILK-SCREEN SYMBOL AND LETTERING EQUAL TO R7-8 AS REQUIRED BY THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- 2. SIGNS SHALL BE MOUNTED ON 1½" SQUARE GALVANIZED STEEL POST, WALL OR FENCE MOUNTED AS INDICATED ON THE PLANS, LOCATE AND INSTALL IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND REGULATIONS.
- 3. PARKING STALL STRIPES SHALL BE PAINTED AS SHOWN ON THE DRAWINGS. LINES SHALL BE 4" WIDE, APPLIED IN ONE COAT USING A STANDARD STRIPING MACHINE. PAINT SHALL BE WHITE AS REQUIRED TO CONFORM TO THE MMUTCD.
- 4. PROVIDE STRIPING AT NEW PAVEMENT AS INDICATED ON THE DRAWINGS.
- 5. ALL SITE LIGHTING SHALL BE SHIELDED DOWNWARD AND AWAY FROM ADJACENT
- 6. SITE IDENTIFICATION SIGNAGE SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE ROCHESTER HILLS STANDARDS.
- 7. EXTERIOR CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE
- FOLLOWING CRITERIA. A. CURB RAMPS SHALL BE PROVIDED WHERE EVER AN ACCESSIBLE
- ROUTE CROSSES A CURB. B. MAXIMUM SLOPE SHALL BE 1:12, THE TRANSITION FROM WALKS, GUTTERS OR STREETS SHALL BE FLUSH.
- C. THE MINIMUM WIDTH SHALL BE 36", EXCLUSIVE OF FLARES, UNLESS OTHERWISE NOTED ON THE PLANS.
- D. CURB RAMPS SHALL HAVE A DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
- 8 A DETECTABLE WARNING SHALL BE PROVIDED IN SIDEWALKS WHERE A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS. THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE MINIMUM. THE DETECTABLE WARNING SHALL COMPLY WITH THE CRITERIA STATED ABOVE FOR CURB RAMPS.
- 9. CALL MISS DIG 72 HOURS PRIOR TO CONSTRUCTION.
- 10. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS.
- 11. ALL ROOF TOP AND/OR GROUND MOUNTED MECHANICAL UNITS SHALL BE SCREENED AS REQUIRED BY ROCHESTER HILLS.
- 12. NO SIGNS (OTHER THAN OFFICIAL TRAFFIC CONTROL SIGNS) ARE APPROVED AS PART OF THIS SITE PLAN APPROVAL. PRIOR TO ERECTION OF A SIGN, AN APPLICATION AND APPROPRIATE SUBMISSIONS SHALL BE MADE TO THE BUILDING DEPARTMENT FOR REVIEW, APPROVAL AND ISSUANCE OF A SIGN PERMIT.

PARCEL 1 SITE STATISTICS:

EXISTING ZONING: B3 SHOPPING CENTER BUSINESS USE GROUP: (M) MERCANTILE (UNLIMITED AREA BUILDING) CONSTRUCTION TYPE: II B GROSS SITE AREA: 1.5 ACRES = 65,565 S.F

SET BACKS: FRONT REQUIRED = FRONT PROVIDED = BACK REQUIRED =

NET SITE AREA: 1.2 ACRES = 48,750 S.F.

SIDE REQUIRED = 25-0" EACH = 50'-0" TOTAL SIDE PROVIDED = 57'-3" (NORTH) 115'-8" (SOUTH) = 172'-11" TOTAL

BUILDING AREA:

BACK PROVIDED =

8,154 S.F. ACTUAL LOT COVERAGE: 8,154 S.F. / 48,750 S.F. = 17% ALLOWABLE LOT COVERAGE: 50%

BUILDING HEIGHT:

FIRE DEPARTMENT NOTES:

- 1. FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. FIRE
- PREVENTION ORDINANCE CHAPTER 58, SEC. 503 2. CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14. OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE PREPERATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT

ENGINEERING DEPARTMENT NOTES:

GUIDELINES. FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 307.6.2 & 307.6.2.3

1. INDIVIDUAL GREASE TRAPS FOR ANY FUTURE RESTAURANTS WILL BE PROVIDED AS REQUIRED BY THE CITY OF ROCHESTER HILLS

2. THE EXISITNG SANITARY SEWER SYSTEM WAS DESIGNED AND WAS PREVIOUSLY OPERATING FOR A SINGLE LARGER SCALE RESTAURANT OF EQUAL SIZE TO THE

3. THE EXISTING STORM SEWER SYSTEM WILL BE LEFT AS CURRENTLY DESIGNED FOR PARKING LOT AREAS. THE PROPOSED BUILDING WILL BE BUILT ON THE EXISITNG BUILDING PAD FROM PREVIOUS RESTAURANT STRUCTURE.

APPLICANT INFORMATION:

PARKING CALCULATIONS

CAMPUS CORNERS ASSOCIATES 1334 MAPLELAWN TROY, MICHIGAN 48084

PHONE: (248) 649-2924

EXISTING BUILDING AREA: 135,800 S.F. + 8,095 S.F. = 143,895 S.F. PROPOSED BUILDING AREA: 8.154 S.F. TOTAL BUILDING AREA:

143,895 S.F. + 8,154 S.F. = 152,049 S.F. REQ. PARKING SPACES PER AREA: 152,049 S.F./300 = 507 SPACES REQ. STACKING SPACES : 10 X 2 WINDOWS = 20 STACKING SPACES

TOTAL PARKING SPACES PROVIDED: 651
STACKING SPACES PROVIDED: 20 STACKING SPACES PROVIDED:

EXISTING PARKING AREA

NOTE:

TREATED AS "B" USE....

"M," "A" & "B"

"A" USE BUILDINGS OR TENANT SPACES

W/ LESS THAN 50 OCCUPANTS CAN BE

CONSTRUCTION TYPE IIB

SEPARATED MIXED USES

CAMPUS CORNERS PROPOSED BUILDING 8,154 S.F.

NOTE:

FREE ACCESS.

ALL PROPOSED PUBLIC BUILDING

(FRONT) OF THE PROPSED BUILDING

WILL BE PROVIDED WITH BARRIER

ENTRANCES ALONG THE WEST

NOTE: ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES, APPROVED UNDER A SEPARATE PERMIT.

FIRE DEPT. NOTES

"A KNOX KEY SYSTEM SHALL BE NSTALLED, IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE FROM THE KNOX COMPANY AT KNOXBOX.COM"

EXISTING PARKING AREA

MODIFY EXISTING ASPHALT CURB AS REQ'D

TWO WAY TRAFFIC \longrightarrow

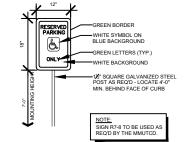
TYP. BARRIER FREE PARKING SIGN DETAIL

biddison architecture + design

t:248.554.9500

320 Martin St. Suite 10

Birmingham, MI 48009



Consultants

Project title PROPOSED BUILDING FOR:

> CAMPUS CORNERS OUTLOT

> > Issued dr/ch

Sheet title

Project no.

11.14.17

12.29.17

03.09.18

03.13.19

04.22.19

185 S. LIVERNOIS ROCHESTER HILLS, MICHIGAN

SITE PLAN REVIEW

SITE PLAN REVIEW

REV. PLAN FOR REVIEW 03.22.19

 $\begin{pmatrix} 1 \end{pmatrix}$ PER CITY REVIEW

(3) REV. PER CITY

 $\langle 2 \rangle$ SITE PLAN REVIEW

DETAILS AT LOCATIONS AS SPECIFIED BY TENANT FOR THE FOLLOWING ITEMS: (1) ORDER MENU BOARD (2) SPEAKER POST (3) DIRECTIONAL SIGNAGE (4) HEIGHT RESTRICTION BAR

FURNISH AND INSTALL 6" DIAMETER STEEL PIPE BOLLARDS, FILLED WITH CONCRETE, PAINTED AND LOCATED PER TENANT'S CONSTRUCTION DOCUMENTS.

CITY FILE #: 18-001



0 8 16 24 32 40

*KEVIN L. BIDDISON

2001-17

SITE PLAN

Sheet no.

SITE PLAN SCALE: 1"=40'

—EXIST. WATER LINE

EXISTING PARKING AREA -

PARCEL 2

TWO WAY TRAFFIC

S. 02[^] 18' 20" W. 400.00'

EXISTING BUILDINGS TO REMAIN

– ÈXIŞTING PARKING AREA

P DRIVETHRU IANE

EXISTING BUILDING

SOUTH LIVERNOIS ROAD

8,095 S.F.

BUILDING IS NOT PROVIDED WITH

ALL PROPOSED BUILDING

PROVIDE PARKING LOT STRIPING AND DIRECTIONAL ARROWS PER TENANT'S CONSTRUCTION DOCUMENTS AND PER LOCAL

NOTE:

NOTE:

NOTE:

SHIELDED

NOTE:

SHARED PARKING AGREEMENT W/

ADJACENT SHOPPING CENTER

A WET FIRE SUPPRESSION

DRIVE THRU NOTE: FURNISH AND INSTALL REINFORCED CONCRETE PEIR AND ANCHOR BOLTS PER TENANTS PIER

(5) TENANT'S DEDICATED MONUMENT SIGN / PYLON SIGN

NOTE:

SP.101

Construction Documents Campus Corners Shopping Center at 175 Livernois Road

Prepared For

Frankel Development Company 1334 Maplelawn Drive City of Troy Oakland County, Michigan

ROAD COMMISSION FOR OAKLAND COUNTY NOTES

Civil Engineer

Nowak & Fraus Engineers 46777 Woodward Avenue Pontiac, Michigan 48342

Contact: Mr. Mark Collins, P.E. Phone: (248) 332-7931 (248) 332-8257

Electric

DTE Energy 37849 Interchange Drive Farmington Hills, MI 48335

Contact: Mr. Tour'e Kelsey Phone: (586) 997-2161

Cable Television

Comcast - Michigan East Region 36250 Van Dyke, Building B Sterling Heights, MI 48312

Contact: Mr. James Stitzel Phone: (248) 883-7253

Natural Gas

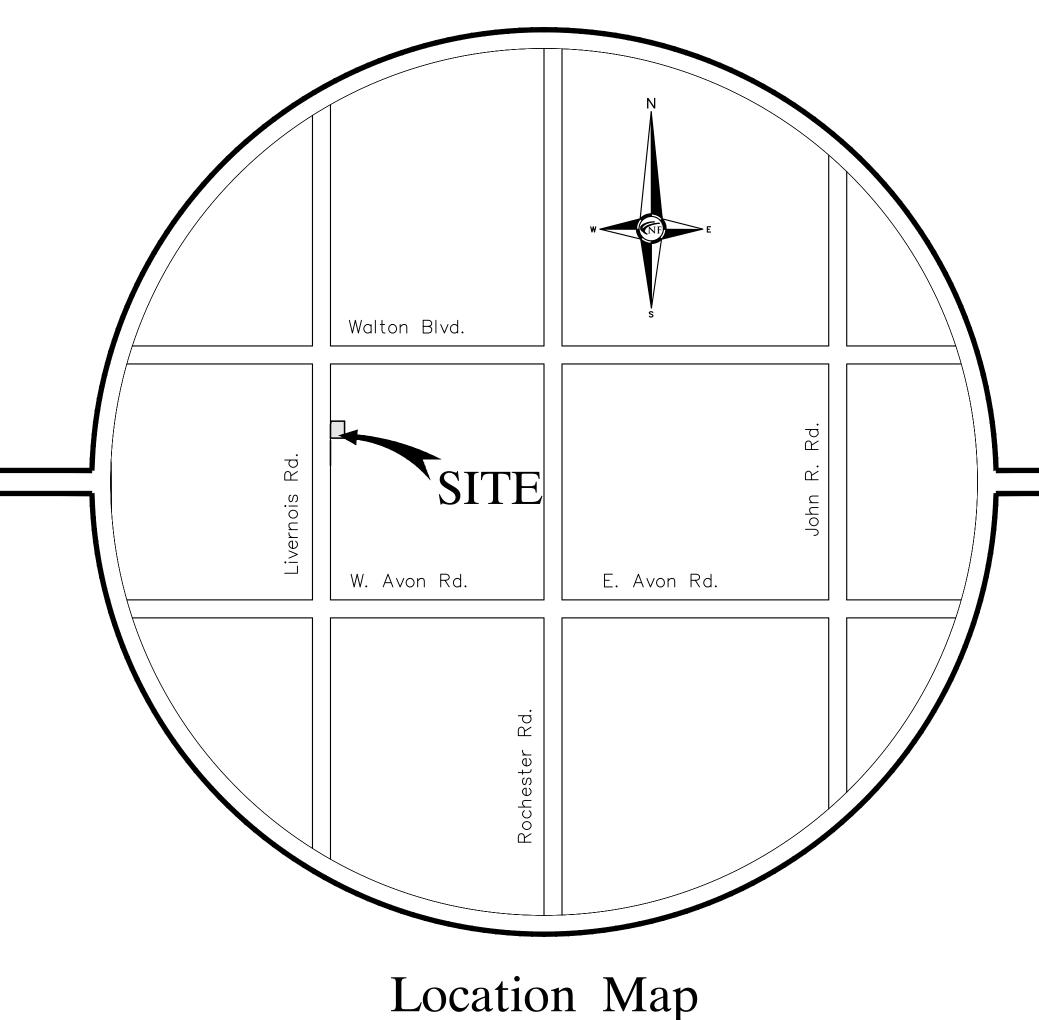
Consumers Energy 1030 Featherstone Road Pontiac, MI 48342

Contact: Mr. Mike Jablonski Phone: (248) 858-4405

Telephone

54 N. Mill Street Pontiac, MI 48342

Contact: Mr. Dean Jones Phone: (248) 972-0139



May 30, 2018 - Submitted for City Approval September 15, 2018 - Revised Per City Review April 22, 2018 - PRELIM Site Plan Submittal

SHEET INDEX

CO COVER

C1 BOUNDARY/TOPOGRAPHIC SURVEY C2 DEMOLITION PLAN

C3 PAVING AND GRADING PLAN

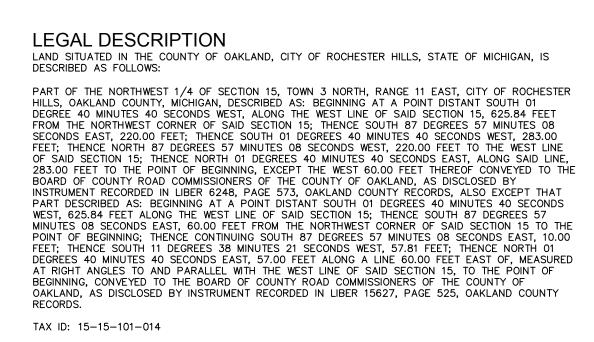
C4 UTILITY PLAN C5 PROFILE, DETAILS AND CALCULATIONS PLAN

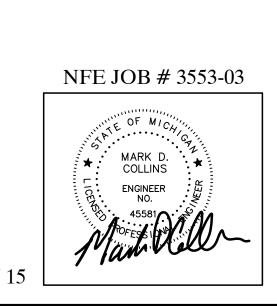
C6 SOIL EROSION/DRAINAGE AREA PLAN L1 LANDSCAPE PLAN

L2 LANDSCAPE PLAN STORM SYSTEM STANDARD DETAILS WATER MAIN DETAIL 1 WATER MAIN DETAIL 2

WATER MAIN DETAIL 3 SANITARY DETAILS 1 SANITARY DETAILS 2

Part of the NW $\frac{1}{4}$ of Section 15 T.3N., R.11E., City of Rochester Hills, Oakland County, Michigan

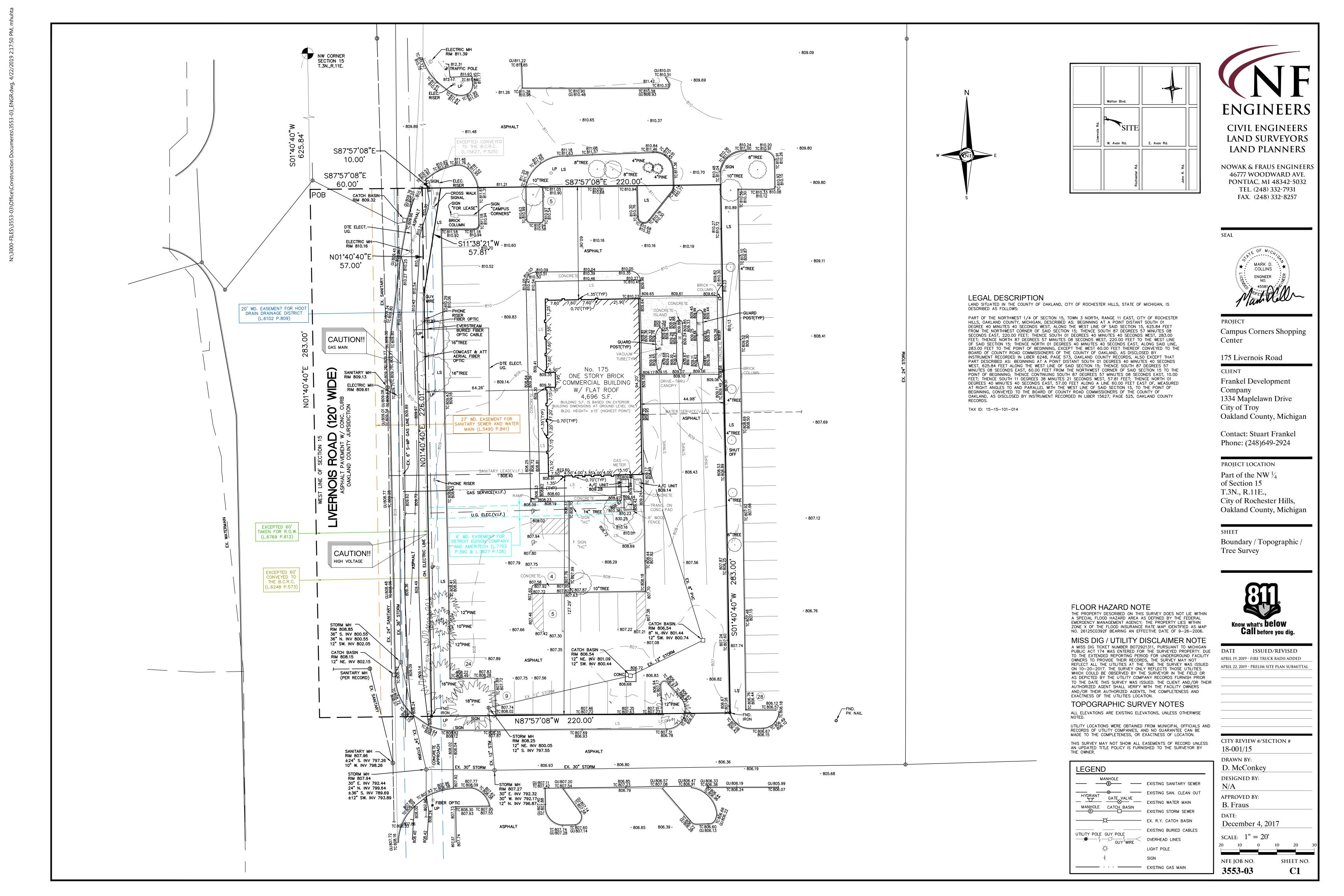


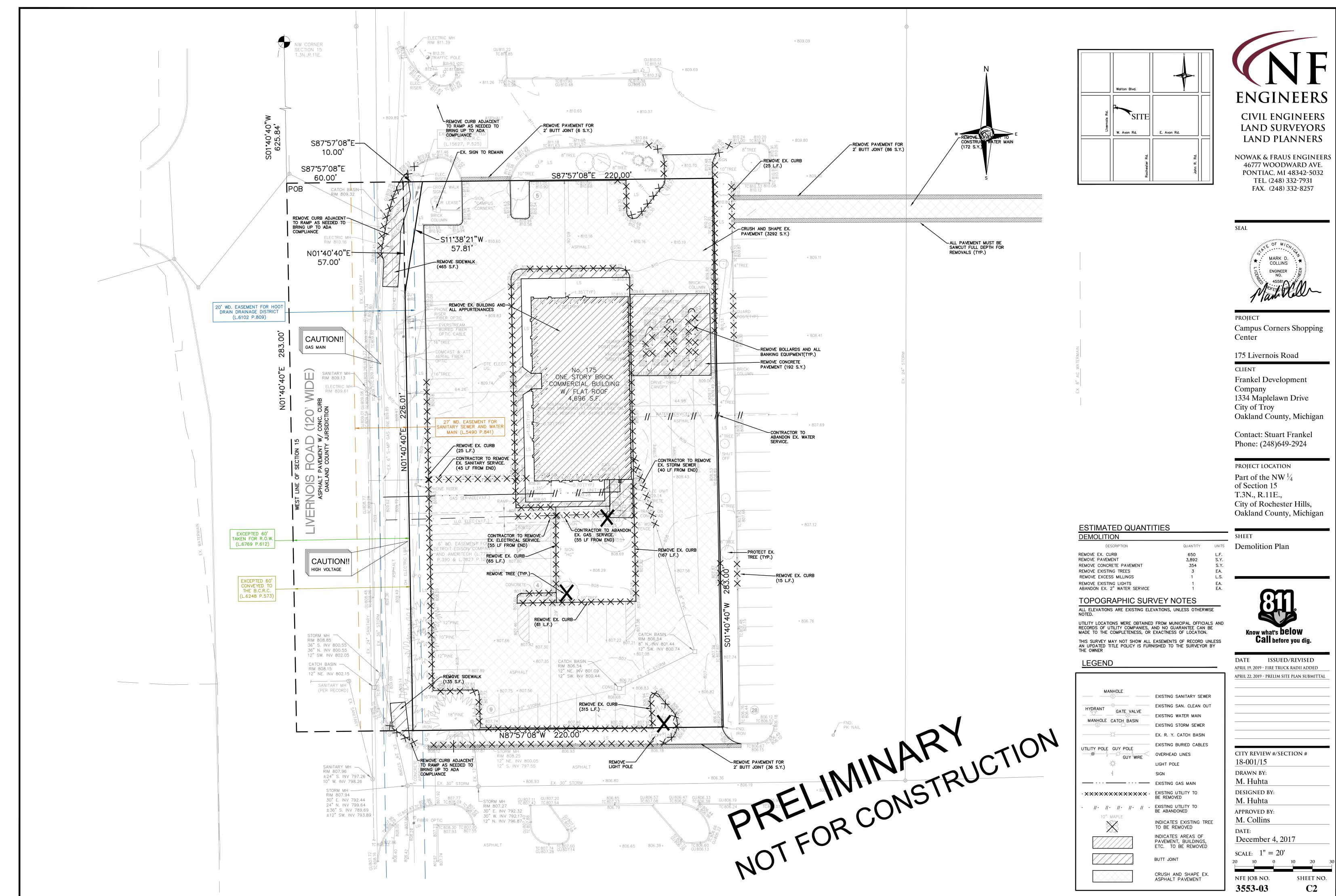




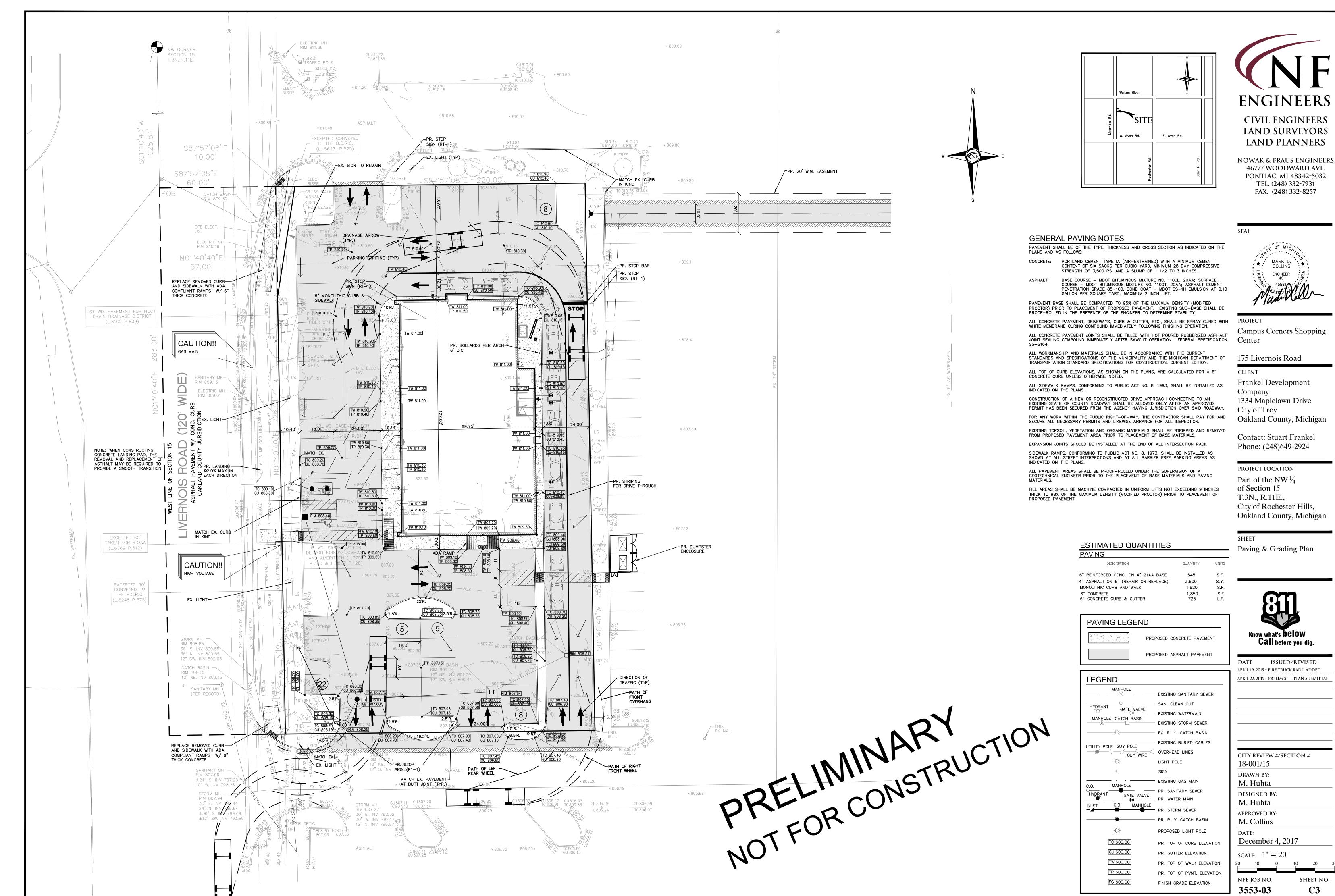
NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

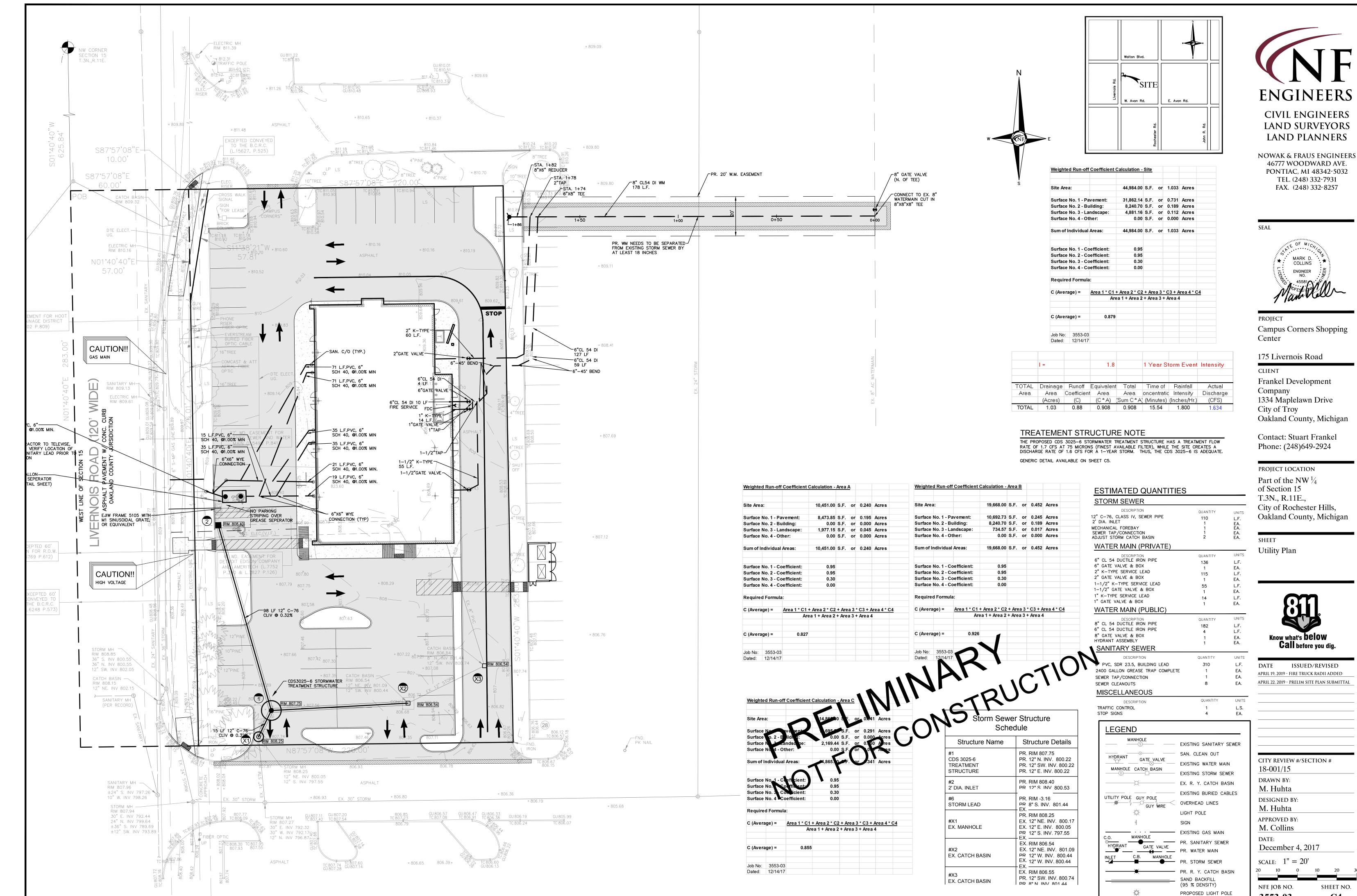






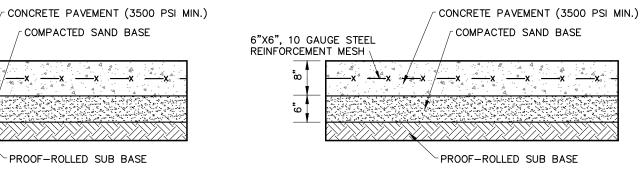
C2



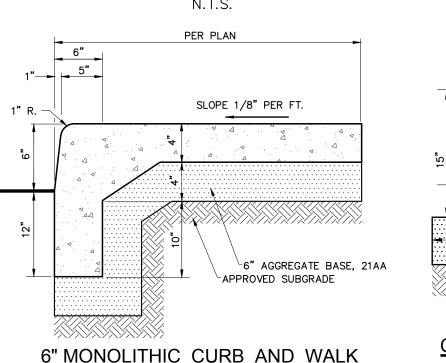


3553-03 **C4** 6"X6", 10 GAUGE STEEL

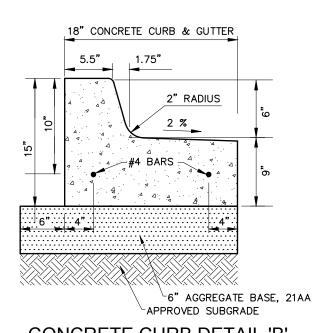
REINFORCEMENT MESH

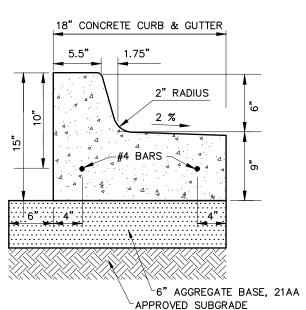


8" CONCRETE SECTION



6" CONCRETE SECTION





UTILITIES

AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION, THE

CONTRACTOR SHALL NOTIFY MISS DIG AND THE LOCAL COMMUNITY (WHERE APPLICABLE) TO

THE CONTRACTOR SHALL EXPOSE AND VERIFY EXISTING UTILITIES FOR LOCATION, SIZE, DEPTH, MATERIAL AND CONFIGURATION PRIOR TO CONSTRUCTION. COSTS FOR EXPLORATORY

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING UTILITIES WHICH DO NOT MATCH THE PLANS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. ANY FIELD CHANGES OF

THE PROPOSED UTILITIES SHALL BE APPROVED BY THE OWNER AND ENGINEER BEFORE THE

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE. ANY SERVICE OR UTILITY DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT

ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING,

DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND

ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS.

IF NOT SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION DESIGN DOCUMENTS, THE DESIGN OR QUALITATIVE ANALYSIS OF GROUND WATER DEWATERING SYSTEMS IS BEYOND THE SCOPE

OF DESIGN FOR THESE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING

THE DEWATERING METHOD SELECTED BY THE CONTRACTOR WILL NOT ADVERSELY AFFECT ADJACENT PAVEMENTS OR STRUCTURES PRIOR TO BEGINNING DEWATERING CONDITIONS. MEANS

DEWATERING OF TRENCH AND EXCAVATIONS

AND PROVIDING APPROPRIATE EXCAVATION DEWATERING SYSTEMS FOR USE DURING

UNDERGROUND UTILITIES UNLESS SPECIFICALLY INDICATED OTHERWISE.

AND METHODS OF DEWATERING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

COST OF DEWATERING WILL BE CONSIDERED INCLUDED IN THE WORK OF CONSTRUCTING THE

FROM TIME TO TIME IT MAY BE NECESSARY FOR THE CONTRACTOR TO BY-PASS PUMP TO COMPLETE THE WORK INDICATED ON THE PLANS. THE COST OF BY-PASS PUMPING, THE METHODS, EQUIPMENT AND MEANS OF PROVIDING THAT WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED PART OF THE WORK WHETHER SPECIFICALLY CALLED

MEANS AND METHODS FOR PIPE CONSTRUCTION

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESS OF THE PAVEMENT REMOVAL. PAVEMENT CORE SAMPLES ARE FOR INFORMATIONAL PURPOSES ONLY AS TO THE

DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL ACCOMMODATE BOTH

VEHICULAR AND PEDESTRIAN TRAFFIC IN THE ROAD RIGHTS OF WAY. THE CONTRACTOR'S EQUIPMENT AND OPERATIONS ON PUBLIC STREETS SHALL BE GOVERNED BY ALL APPLICABLE

LOCAL, COUNTY AND STATE ORDINANCES, REGULATIONS AND LAWS. THE CONTRACTOR SHALL OBTAIN AND SATISFY ANY AND ALL PERMIT REQUIREMENTS BY THE LOCAL, COUNTY AND STATE

IN ADDITION, WHERE THE WORK REQUIRES THE CLOSURE OF ONE OR MORE LANES OR IS WITHIN THE INFLUENCE OF THE ROAD OR PEDESTRIAN RIGHT OF WAY, THE CONTRACTOR SHALL

PROVIDE ALL SIGNS, BARRICADES, FLAG PERSONS AND OTHER TRAFFIC CONTROL MEASURES AS

REQUIRED BY MDOT, THE COUNTY, OR THE COMMUNITY HAVING JURISDICTION OF THE ROAD

COMPENSATION FOR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ACCEPTED BID

THE CONTRACTOR SHALL MAINTAIN OR REPAIR ANY EXISTING IRRIGATION SYSTEMS WITHIN THE

PROJECT AREA UNLESS THE DRAWINGS CALL FOR THE IRRIGATION SYSTEM TO BE REMOVED.

THE OWNER AND NFE MAKE NO REPRESENTATIONS, WARRANTY OR GUARANTY AS TO THE

COMPENSATION FOR MAINTAINING OR REPAIRING EXISTING IRRIGATIONS SYSTEMS SHALL BE

CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC IRRIGATION SYSTEM REPAIR ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

THE ACCURACY AND RELIABILITY OF THE SOIL LOGS AND REPORT ARE NOT WARRANTED OR GUARANTEED IN ANY WAY BY THE OWNER OR ENGINEER AS TO THE SUB-SOIL CONDITIONS FOUND ON THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION AND

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SOILS WHICH DO

NOT CONFORM TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE

SPECIFICATIONS. THE MEANS AND METHODS USED TO ACHIEVE THE REQUIRED RESULT SHALL

ANY AREAS OF UNDERCUTTING THAT RESULT IN ADDITIONAL OR EXTRA WORK BECAUSE THEY COULD NOT BE IDENTIFIED BY THE CONTRACTOR'S PRE-BID SITE OBSERVATION OR ARE NOT

SET FORTH IN THE PLANS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF

MAKE A REQUEST FOR ANY ADDITIONAL COMPENSATION FOR THE UNDERCUTTING IN WRITING AND THE REQUEST SHALL CONFORM TO THE CONTRACT'S CHANGE ORDER PROVISIONS.

STRUCTURAL BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PROJECT PLANS, SPECIFICATIONS OR AS REQUIRED BY THE COMMUNITY, GOVERNMENT AGENCY OR UTILITY THAT

SPECIFICATIONS. TRENCH BACKFILL SHALL ALSO BE INSTALLED IN CONFORMANCE WITH THE

COMMUNITY REQUIREMENTS OR AGENCY/UTILITY GOVERNING SAID TRENCH CONSTRUCTION. IN

EARTHWORK BALANCES OR NOT. ANY EXCESS CUT MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR, IN A LIKE MANNER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT APPROVED FILL MATERIAL AND PLACE IT AS REQUIRED TO ATTAIN THE SITE GRADE AND COMPACTION REQUIREMENTS PER THE ENGINEER'S PLAN AND ALL APPLICABLE GOVERNMENTAL STANDARDS. THE ENGINEER AND OWNER MAKE NO REPRESENTATION AS TO THE QUANTITIES

THAT MAY BE NEEDED TO CREATE A BALANCED EARTHWORK CONDITION OR THAT THE SITE

THE CONTRACTOR SHALL OBTAIN THE REQUIRED SOIL EROSION PERMIT AND SATISFY ALL REGULATORY REQUIREMENTS FOR CONTROLLING SOIL EROSION AND SEDIMENT TRANSPORT. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS. THE ENGINEER AND OWNER ARE

TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PLANS AND/OR

THE CASE OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER THE SITE

SOIL EROSION / SEDIMENTATION CONTROL

THE OWNER AND ENGINEER BEFORE ANY EXTRA WORK IS PERFORMED. THE CONTRACTOR SHALL

SUB-SOIL INVESTIGATION AND SECURE OTHER SUCH INFORMATION AS THE CONTRACTOR CONSIDERS NECESSARY TO DO THE WORK PROPOSED AND IN PREPARATION OF THEIR BID.

SUBGRADE UNDERCUTTING AND PREPARTION

TO PROVIDE A SUBGRADE IN CONFORMANCE WITH THE PROJECT PLANS AND/OR

LOCATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSAR MEASURES TO PROTECT THE IRRIGATION SYSTEM DURING CONSTRUCTION ACTIVITIES

AT THE LOCATION OF THE BORING ON THE DATE THEY WERE TAKEN.

AND IN CONFORMANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THICKNESS OF THE PAVEMENT AT THE LOCATION OF THE SAMPLE. THE OWNER AND ENGINEER MAKE NO REPRESENTATION, WARRANTY OR GUARANTY THAT THE SAMPLES ACCURATELY

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR CONSTRUCTING THE UNDERGROUND PIPE SYSTEMS PROPOSED ON THE PLANS, INCLUDING BUT NOT LIMITED TO THE NEED FOR SHORING/BRACING OF TRENCHES, DEWATERING OF TRENCHES. SCHEDULING THE WORK AT OFF PEAK HOURS, AND/OR MAINTAINING EXISTING FLOWS THAT MAY BE ENCOUNTERED VIA PUMPING, BY-PASS PIPING OR OTHER MEANS. THE CONTRACTOR SHALL NOT BE PAID ANY ADDITIONAL COMPENSATION TO IMPLEMENT ANY MEANS AND METHODS TO

THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE

THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS

THE EXPENSE OF THE CONTRACTOR, IN CONFORMANCE WITH THE REQUIREMENTS OF THE

DAMAGE TO PRIVATE PROPERTY

SHALL NOT BE AN EXTRA TO THE CONTRACT.

BY-PASS PUMPING

OUT ON THE PLANS OR NOT.

SATISFACTORILY COMPLETE THE CONSTRUCTION.

REFLECT THE PAVEMENT THICKNESS ON THE PROJECT.

MAINTENANCE OF TRAFFIC

SUB-SOIL CONDITIONS

REST SOLELY WITH THE CONTRACTOR.

STRUCTURE BACKFILL

EARTH BALANCE / GRADING

TRENCH BACKFILL

EARTHWORK IS BALANCED.

THE CONTRACT DOCUMENTS.

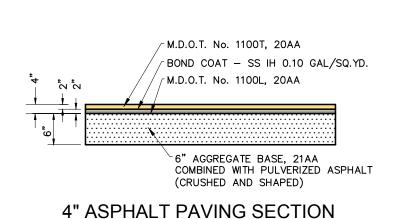
PAVEMENT REMOVAL

EXCAVATION IS AN INCIDENTAL COST AND SHALL NOT BE CONSIDERED AN EXTRA TO THE

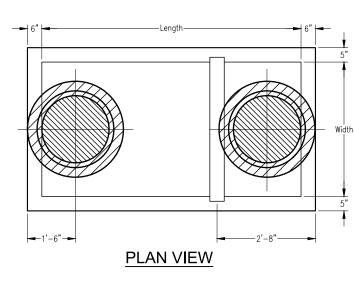
CONCRETE CURB DETAIL 'B'

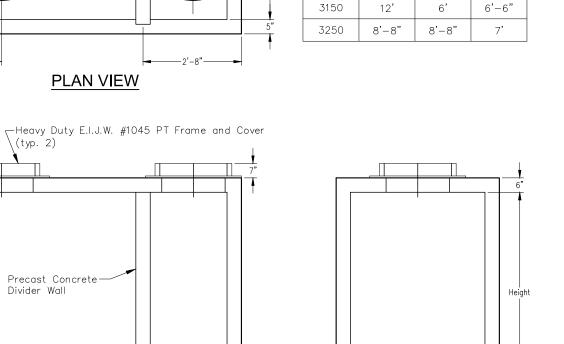
-APPROVED SUBGRADE CONCRETE CURB DETAIL 'B'

SAWCUT & REMOVE EXISTING————————————————————————————————————	VARIES PER PLAN 2.0' MIN.
EXISTING ASPHALT PAVEMENT OR ASPHALT OVER CONCRETE B	PROPOSED PAVEMENT OR CURB & GUTTER UTT JOINT DETAIL N.T.S.



Date: 12-1	ampus Corners			
Date: 12-1	4-17			
SANITA	RY SEWER BASIS OF DESIGN			
RESTAUR	ANT SQUARE FOOTAGE		4080	S.F.
	ER 1000 S.F.			REU
RETAIL SC	UARE FOOTAGE		4080	S.F.
0.3 R.E.U. I	PER 1000 S.F.		1	REU
	*NOTE:1 R.E.U. EQUALS 100 G.P.D.		13	TOTAL REU
AVE Q. =	(100 G.P.C.P.D. * NO PEOPLE)			
	(86,400 SEC/DAY * 7.48 GAL /C.F.)	=	0.007	cfs.
Peaking	100 (18 + P^.5)/(4+P^.5)	=	4.00	
Factor	(P=POP. IN THOUSANDS)			
55446	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,			
PEAK Q =	(G.P.C.P.D. * NO. PEOPLE)			_
	(86,400 SEC/DAY * 7.48 GAL /C.F.)	=	0.03	cts.
	SIZE OF SANITARY SEWER	=	6	inch
	PIPE SLOPE	=	1.00	%
	PIPE CAPACITY		0.56	cfe





Gallons Length Width Height

1300 8' 4' 7'

2000 8' 6' 7'

2400 12' 5' 7'

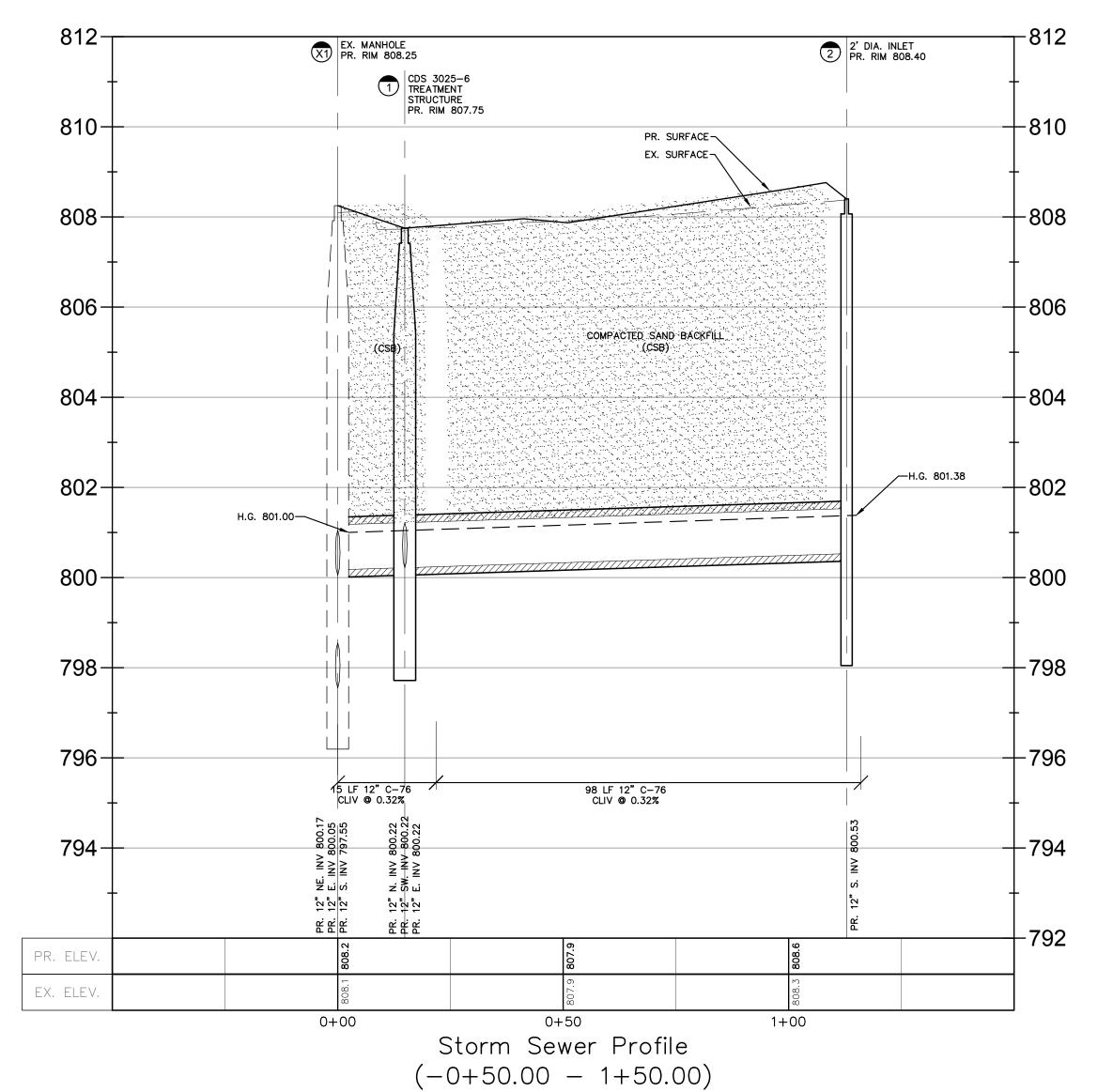
5' 7'

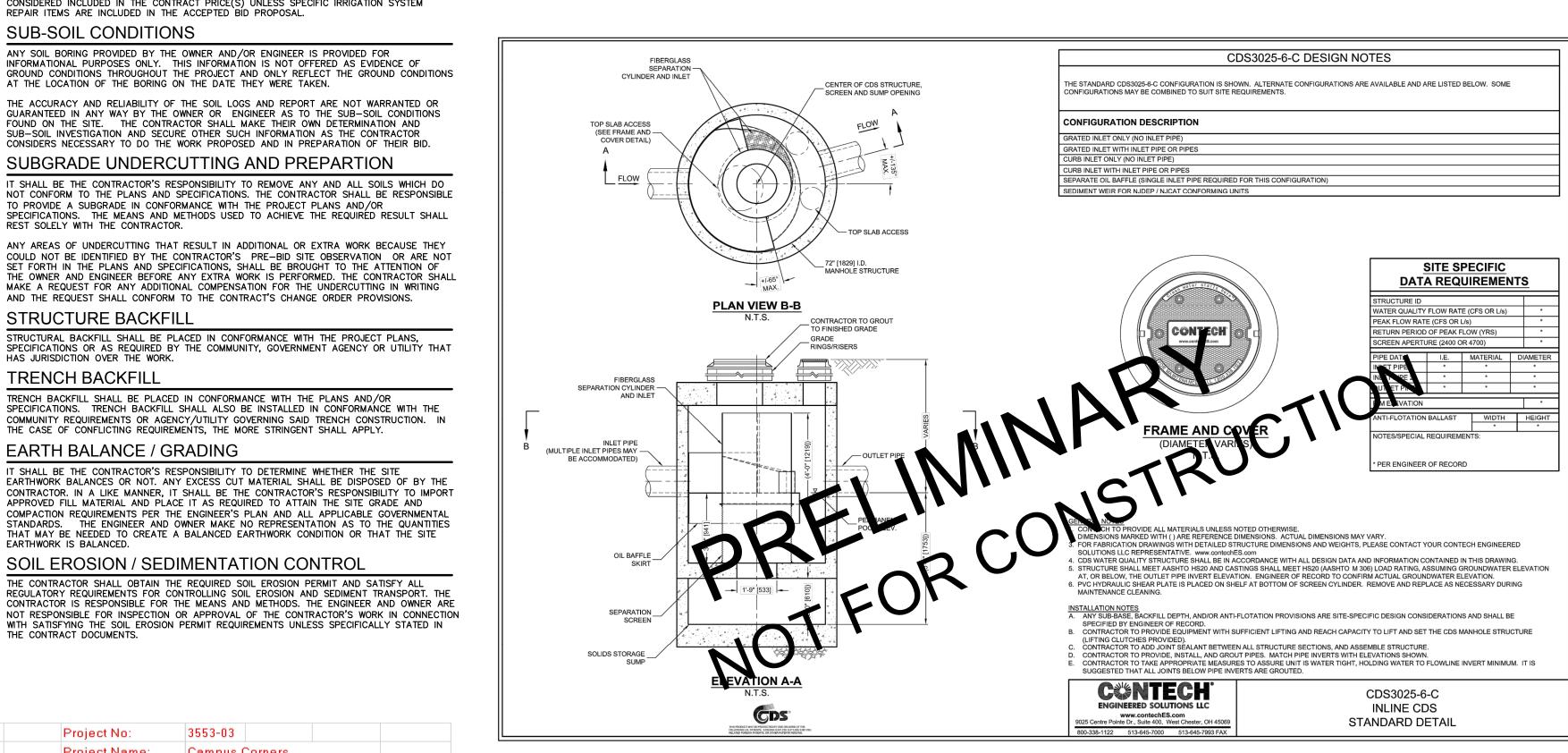
10'

(typ. 2)		1		
		7"		¥
		 		6"
Precast Concrete Divider Wall				Height
SIDE VIEW	! -	_	END VIEW	•

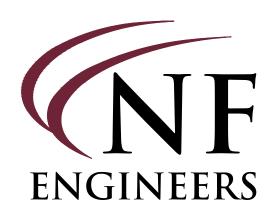
HEAVY DUTY INTERCEPTOR/GREASE TRAP

	T=		15 Minute	s	Time of	Concentrat	tion			Campus	Corners	5							Project No	:	3553-03			
	=		151.8/ (T+	+19.9)	10 Year 9	Storm Ever	nt Intensity		oposed	Storm S	Sewer Ca	lculation	-						Project Na	ıme:	Campus	Corners		
	n (Conc.))	0.013		Manning'	s Roughne	ess Coefficie	nt											Location:		Rocheste	r Hills		
	n (Pvc)		0.011		Manning'	s Roughne	ess Coefficie	nt											Dated:		Decembe	r 18, 2017		
																			Revised:		Decembe	er 18, 2017		
From	To	Drainage	Drainage	Runoff	Equivalent	Total	Time of	Rainfall	Actual	Pipe	Pipe	Pipe	Flow Full	Time of	Full Pipe	H. G. Elev.	H. G. Elev.	H. G.	Theoretical	Ground	Change in	Invert Elev.	Invert Elev.	Upper Rim
Struc.	Struc.	Area	Area	Coefficien	t Area	Area	Concentration	Intensity	Discharge	Size	Slope	Length	Velocity	Flow	Capacity	Upper End	Lower End	Slope	Velocity	Elevation	Elevation	Upper End	Lower End	- HGL
No.	No.		(Acres)	(C)	(C * A)	(Sum C*A)	(Minutes)	(Inches/Hr.)	(CFS)	(Inches)	(% Slope)	(Feet)	(Ft/Sec)	(Minutes)	(CFS)	(Feet)	(Feet)	(% Slope)	(Ft/Sec)	(Upper)	(Feet)	(Feet)	(Feet)	(Feet)
1	MTD	Α	0.24	0.83	0.198	0.198	15.00	4.350	0.862	12	0.32	98	2.551	0.64	2.00	801.06	801.00	0.059	1.10	808.25	0.31	800.53	800.22	7.19





MECHANICAL FOREBAY



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

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

SEAL



PROJECT

Campus Corners Shopping Center

175 Livernois Road

CLIENT Frankel Development Company 1334 Maplelawn Drive City of Troy

Contact: Stuart Frankel Phone: (248)649-2924

Oakland County, Michigan

PROJECT LOCATION Part of the NW $\frac{1}{4}$ of Section 15 T.3N., R.11E., City of Rochester Hills, Oakland County, Michigan

SHEET

Profile, Details and Calculations Plan



ISSUED/REVISED APRIL 19, 2019 - FIRE TRUCK RADII ADDED APRIL 22, 2019 - PRELIM SITE PLAN SUBMITTAI

CITY REVIEW #/SECTION # 18-001/15 DRAWN BY: M. Huhta **DESIGNED BY:**

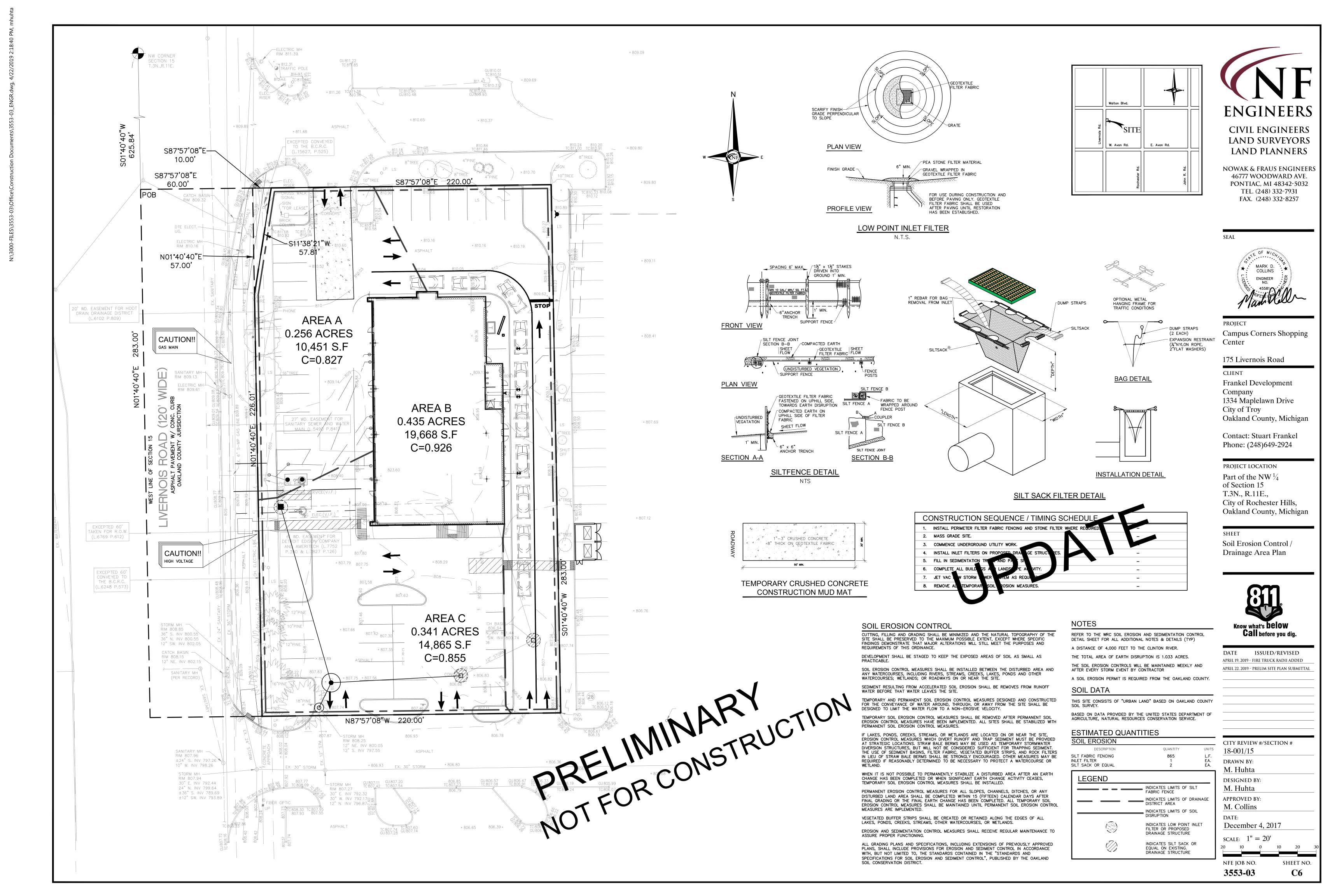
M. Huhta APPROVED BY: M. Collins

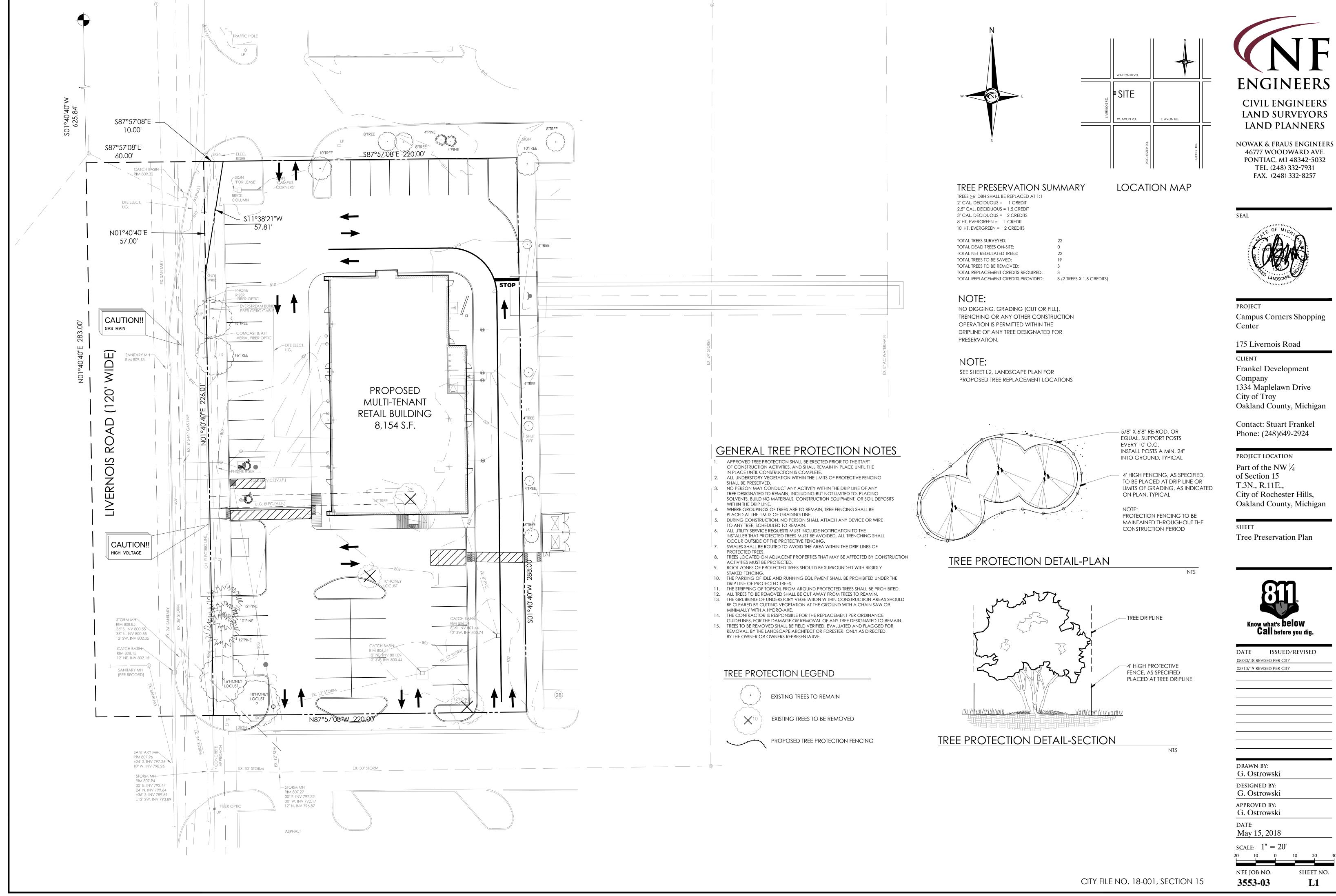
December 4, 2017

SCALE: 1'' = 20' / 1'' = 2'

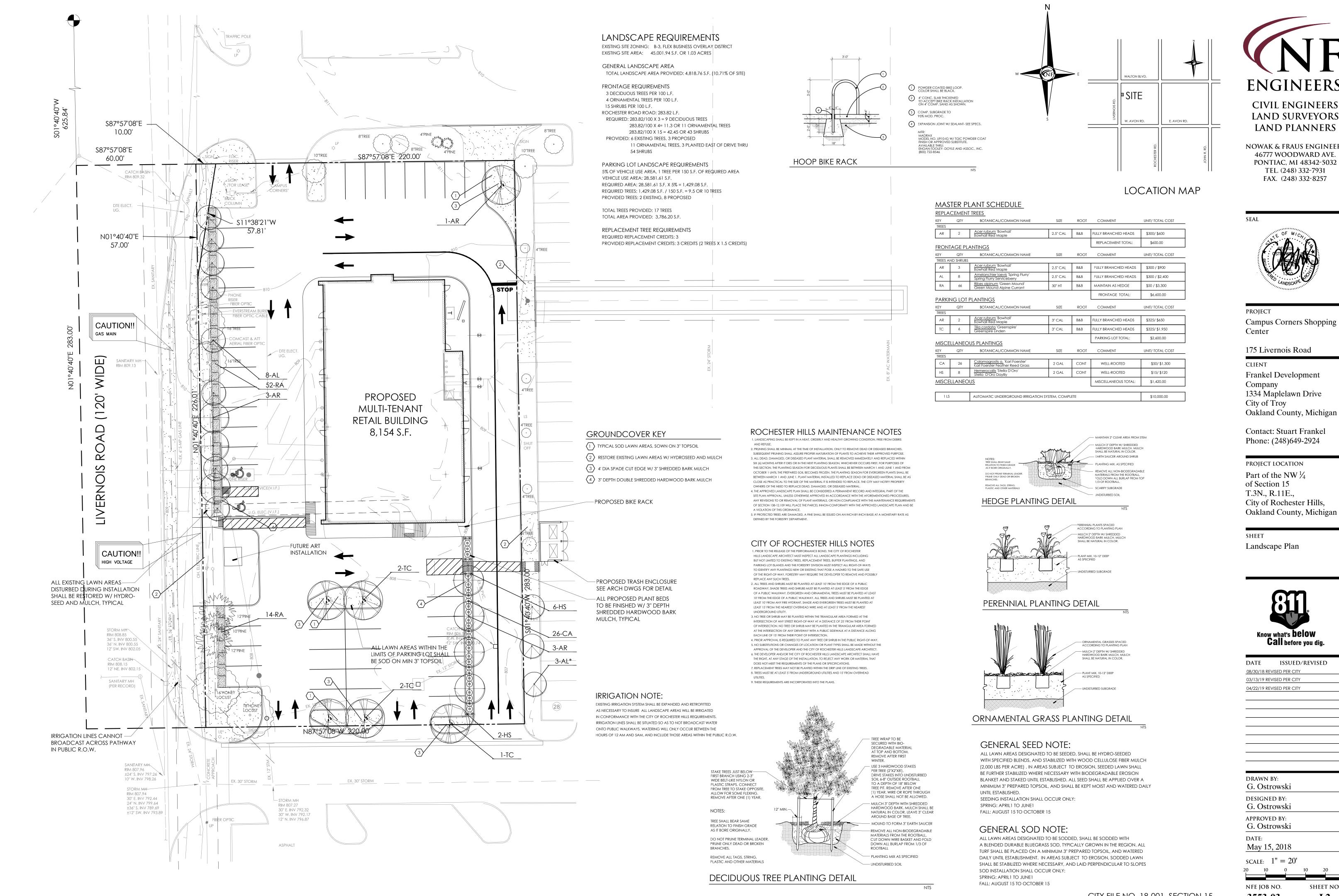
NFE JOB NO. 3553-03

SHEET NO. **C5**





ENGINEERS CIVIL ENGINEERS LAND SURVEYORS



ENGINEERS CIVIL ENGINEERS

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



Campus Corners Shopping

1334 Maplelawn Drive

City of Rochester Hills, Oakland County, Michigan



DATE ISSUED/REVISED

3553-03

CITY FILE NO. 18-001, SECTION 15

(0.0 0.0 0.0 0.1 0.2 0.4 1.4 1.6 1.9 1.7 1.2 0.4 10.5 3.1 5.2 0.8 0.0 0.0 0.0 0.1 0.3 0.7 2.4 2.4 2.4 2.2 1.2 0.4 0.9 1.2 1.4 1.6 1.7 1.7 1.8 1.7 1.7 1.7 1.7 1.9 2.9 1.8 0.8 0.5 0.4 0.2 0.1 0.1 0.1 0.0 0.0 0.0 8,154 S.F. **7**0.0 **0**.0 **0**.0 **0**.1 **0**.2 **0**.4 **1**.5 **1**.6 **2**.0 **1**.8 **1**.2 **0**.4 0.0 0.0 0.0 0.1 0.1 0.2 1.0 1.4 1.3 0.9 0.4 0.0 0.1 0.2 0.6 0.7 0.9 0.7 0.6 0.6 0.9 0.9 0.8 0.5 0.5 0.7 1.3 1.8 2.3 2.6 2.3 1.8 1.3 0.9 1.0 1.4 1.9 2.4 2.7 2.4 2.1 1.8 1.5 1.5 2.0 2.1 1.8 1.5 1.5 1.1 1.1 1.6 2.0 1.4 0.9 0.9 1.1 0.9 0.5 0.3 0.2 0.1 0.1 $1.3 \ 2.2 \ 0.8 \ 0.4 \ 0.4 \ 0.8 \ 1.5 \ 1.5 \ 0.6 \ 0.3 \ 0.1 \ 0.1 \ 0.0$

GENERAL CONTROLS NOTES:

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

GENERAL LIGHTING NOTES: - SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT - SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR. CORRIDOR CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0" AFG.

TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS III LUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

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

0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.2 0.3 0.3 0.3 0.2 0.1 0.1 0.1 0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.6	0.4	0.1	0.1	0.1	0.1	0.0
	0.0	0.0	[†] 0.0	0.0	0.0	0.0	0.1	[†] 0.1	0.1	[†] 0.2	0.3	0.3	0.3	[†] 0.2	0.1	[†] 0.1	0.1	0.0	0.0

Symbol	Label	QTY	Manufactur er	Catalog Number	Description	Lamp +	Number +Lamps+	Filename	Lumens per Lamp	↓ LLF	→ Wattage
	E1	2	EXISTING	EXISTING •	EXISTING- SPEC ASSUMED	ONE 400-WATT CLEAR ET-18 HIGH PRESSURE SODIUM, HORIZONTAL POSITION	1	TFR_400S_TA.ies	50000	0.3	1872
	E4	5	EXISTING	EXISTING	EXISTING- SPEC ASSUMED	ONE 250-WATT CLEAR BT-28 METAL HALIDE, HORIZONTAL POSITION.	1	KAD_250M_SR3_(PRO BE).ies	20000	0.3	297

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage	Mounting Height
	OA	4	Lithonia Lighting	WST LED P1 40K VF MVOLT	WST LED, Performance package 1, 4000 K, visual comfort forward throw, MVOLT	LED	1	WST_LED_P1_40K_VF _MVOLT.ies	1639	0.9	12	10'-0"
	ОВ	3	Lithonia Lighting	DSX0 LED P5 40K T5W MVOLT	DSX0 LED P5 40K T5W MVOLT	LED	1	DSX0_LED_P5_40K_T5 W_MVOLT.ies	12047	0.9	89	20'-0"
	ОС	3	Lithonia Lighting	DSX0 LED P5 40K TFTM MVOLT HS	DSX0 LED P5 40K TFTM MVOLT with houseside shield	LED	1	DSX0_LED_P5_40K_TF TM_MVOLT_HS.ies	9119	0.9	89	20'-0"

INTO BUILDING

LM/AAM Date

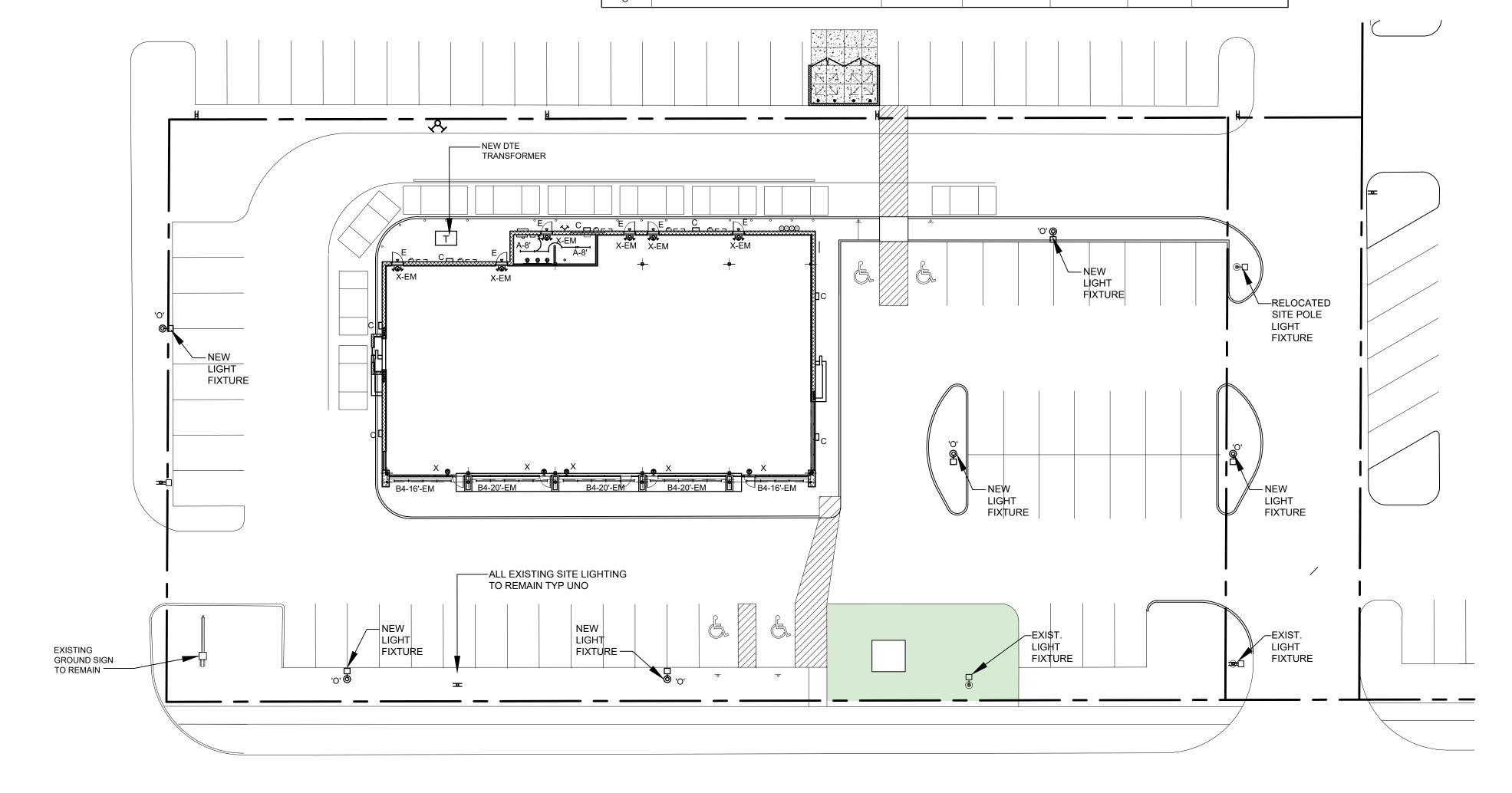
5/24/2018 REV 3/28/2019 REV 04/22/2019

Scale Not to Scale Drawing No. #18-17390-V2 1 of 1

320 Martin St. Suite 10 Birmingham, MI 48009 t:248.554.9500

* REFER TO PHOTOMETRIC PLAN FOR MOUNTING HEIGHTS

	LIGHT FIXTURE SCHEDULE				_	ES W/ REMOTE BATTERY BACK-UP
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMP	FINISH	MOUNTING
'A'	INDUSTRIAL STRIP LED FIXTURE.	LITHONIA OR APPROV. EQUAL	ZL1N LENSED	LED 4000K	WHITE	CABLE HUNG
'B4'	SEALED WATER PROOF EXTERIOR LIGHT FIXTURES IP65 RATED SEE PLAN FOR LENGTH	AXIS LIGHTING OR APPROV. EQUAL	WET BEAM 4 SATIN LENS DIRECT LIGHT	LED 4000K	SILVER	WALL MOUNTED TO EXPOSED STEEL LINTEL BEAM
'C'	EXTERIOR WALL PACK LIGHTING	LITHONIA	WST	LED 4000K	SILVER	WALL MOUNTED
▽ 'E'	WATERPROOF EXTERIOR EGRESS LIGHT FIXTURE MOUNTED ABOVE DOOR - POWERED BY BATTERY BACK-UP	ETON	LUMIERE LANTERRA 1002 ONE HEAD	LED 4000K	SILVER	WALL MOUNTED
∑ 'X'	INTERNALLY LIT EMERGENCY EXIT SIGN W/ BATTERTY BACK-UP	LITHONIA	TBD	LED	WHITE	
'X-EM'	INTERNALLY LIT EXIT SIGN - EMERGENCY LIGHT FIXTURE W/ (2) ADJUSTABLE HEADS AND + BATTERY BACK-UP	LITHONIA	TBD	LED	WHITE	
'O'	POLE MOUNTED LIGHT FIXTURE	LITHONIA	DSX0	LED 4000K	SILVER	POLE MOUNTED



Project title

Consultants

PROPOSED BUILDING FOR:

CAMPUS CORNERS OUTLOT

185 S. LIVERNOIS ROCHESTER HILLS, MICHIGAN

Issued dr/ch PER CITY REVIEW
REV. PER CITY
REV. PER CITY 03.09.18 03.13.19 04.22.19

Sheet title

Project no.

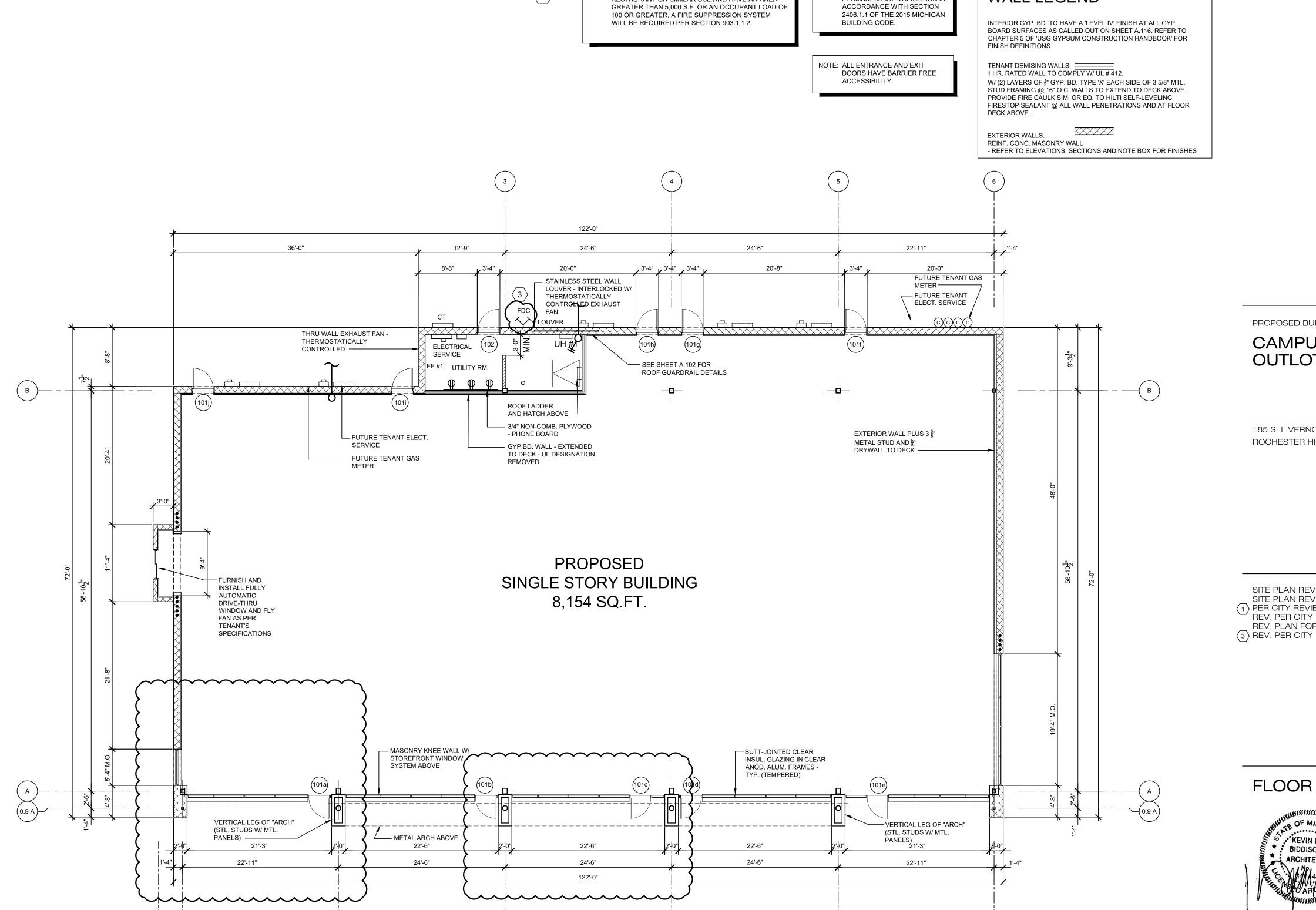
SITE ELECTRICAL PLAN

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

2001-17

ENLARGED ELECTRICAL SITE PLAN

SCALE: 1"=20'



NOTE: SHOULD ANY FUTURE TENANT SPACE BE A

RESTAURANT OR SIMILAR USE AND HAVE AN AREA

NOTE: SAFETY GLAZING MUST HAVE

PERMANENT IDENTIFICATION IN

ACCORDANCE WITH SECTION

WALL LEGEND

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

A.201

DENOTES CLEAR

TEMPERED GLASS

CITY FILE #: 18-001

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