THE REDMOND COMPANY

W228 N745 WESTMOUND DRIVE, WAUKESHA, WISCONSIN 53186-1725 PHONE: (262)549-9600 FAX: (262)549-1314

MEMBERS FIRST CREDIT UNION

195 CHICAGO DRIVE
JENISON, MI 49428

MEMBERS FIRST CREDIT UNION

PROJECT TEAM

OWNER
MEMBERS FIRST CREDIT UNION
600 WACKERLY STREET
MIDLAND, MI 49640

DESIGN / BUILDER
THE REDMOND COMPANY
W228 N745 WESTMOUND DRIVE
WAUKESHA, WI 53186
DESIGN CONTACT: MATTHEW HENSEL
EMAIL: MHENSEL@THEREDMONDCO.COM
P: 262.896.9751

PROJECT CONTACT: PETE CREAMER
EMAIL: PCREAMER@THEREDMONDCO.COM
P: 262.896.8739

CIVIL ENGINEER
MOORE + BRUGGINK CONSULTING ENGINEERS
2020 MONROE AVENUE
GRAND RAPIDS, MI 49505
PROJECT CONTACT: JUSTIN LONGSTRETH
EMAIL: JLONG@MBCE.COM
P: 616.363.9801

STRUCTURAL ENGINEER
PIERCE ENGINEERS, INC.
181 N BROADWAY
MILWAUKEE, WI 53202
PROJECT CONTACT: ERIC DOHRMANN
EMAIL: EMD@PIERCEENGINEERS.COM
P: 262.988.7465

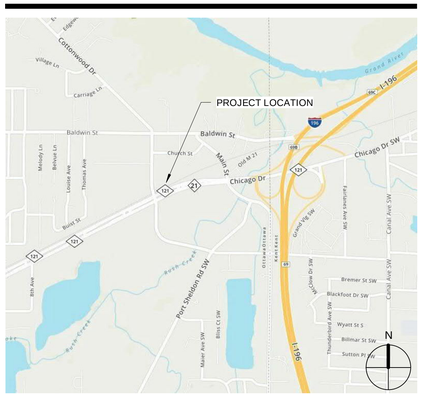
MECHANICAL, ELECTRICAL, & PLUMBING ENGINEER
DESIGN/ BUILDER TO BE DETERMINED

LANDSCAPE ARCHITECT
MOORE + BRUGGINK CONSULTING ENGINEERS
2020 MONROE AVENUE
GRAND RAPIDS, MI 49505
PROJECT CONTACT: JUSTIN LONGSTRETH
EMAIL: JLONG@MBCE.COM
P: 616.363.9801

SHEET INDEX

SHEET NUMBER	SHEET NAME	CURRENT REVISION	REVISION DATE
GENERAL			
G000	INDEX		
SURVEY			
1	TOPOGRAPHIC SURVEY		
ARCHITECTURAL SITE			
AS101	ARCHITECTURAL SITE PLAN		
CIVIL			
C1	EXISTING CONDITIONS + REMOVALS		
C2	SITE PLAN		
C3	GRADING PLAN		
C4	LANDSCAPE PLAN		

VICINITY MAP



GENERAL NOTES

1. SUB-CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
2. FINISH FLOOR HEIGHT IS 100'-0". REFER TO CIVIL PLAN FOR ACTUAL DATUM ELEVATIONS.
3. ALL WORK OF THE SUB-CONTRACTOR SHALL BE IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND COMPLY WITH ALL GOVERNING LAWS, CODES, ORDINANCES, RULES AND REGULATIONS OF THE CITY, COUNTY, STATE AND FEDERAL JURISDICTION INCLUDING REQUIREMENTS OF THE STATE DEPARTMENT OF NATURAL RESOURCES.
4. PRIOR TO COMMENCMENT OF WORK, THE SUB-CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE WORK AND VERIFY GRADE ELEVATIONS, UTILITIES, AND OTHER EXISTING CONDITIONS WHETHER OR NOT SHOWN ON THE DRAWINGS. LOCATE ALL GENERAL SITE REFERENCE DATA FOR PROPERTY LINES AND GRADE ELEVATIONS AND DO THAT WORK WHICH IS NECESSARY TO PREVENT THEIR DISLOCATION OR DESTRUCTION.
5. THE CLEARING/ FILLING/ EXCAVATING OF THE CONTRACT WORK AREA SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO MINIMIZE THE RUNOFF OF SILT AND SEDIMENT INTO THE STORM DRAINAGE SYSTEM AND ONTO ADJACENT OR DOWNSTREAM PROPERTIES. EROSION CONTROL MEASURES SHALL BE INSTITUTED AS NECESSARY BY THE SUB-CONTRACTOR. ANY AND ALL EROSION CONTROL PLANS REQUIRED FOR THIS WORK SHALL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR.
6. SUB-CONTRACTOR SHALL CLEAR THE CONTRACT WORK AREA ONLY. PROTECT EXISTING UTILITIES, TREES AND/OR NATURAL VEGETATION WHICH IS REQUIRED TO REMAIN.
7. NO DEBRIS, EARTH MATERIAL, CLEARED VEGETATION OR WASTE MATERIALS SHALL BE DEPOSITED ON ANY OTHER PROPERTY WITHOUT FIRST OBTAINNIG THE REQUIRED PERMITS AND/ OR APPROVALS. THIS INCLUDES THE INTRUSION OF SUCH MATERIAL INTO THE CITY STREET AND DRAINAGE SYSTEMS. CLEAN ANY DEBRIS LEFT IN THE STREET AS A RESULT OF OPERATIONS IMMEDIATELY.
8. BARRICADE AND POST WARNING SIGNS AND LIGHTS ADJACENT TO OPEN DEPRESSIONS AND HOLES OCCURING AS PART OF THE WORK.
9. MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
10. USE MEANS NECESSARY TO PREVENT DUST FROM BECOMING A NUISANCE TO THE PUBLIC, NEIGHBORS, AND OTHER WORK BEING PERFORMED ON OR NEAR THE SITE.
11. GRADE AREAS ADJACENT TO BUILDINGS TO ACHEIVE DRAINAGE AWAY FROM BUILDINGS. SLOPE 5% OR GREATER, AS MAY BE SHOWN, FOR THE FIRST 10'-0" TOWARDS APPROVED DRAINAGE FACILITIES.
12. FINISH FLOOR SHALL BE A MINIMUM 4" ABOVE ADJACENT FINISH GRADE.
13. DO NOT SCALE DRAWINGS.
14. VERIFY ALL ROUGH-IN DIMENSIONS FOR ALL BUILT-IN EQUIPMENT PRIOR TO PERFORMING WORK. NO CHANGE ORDERS WILL BE APPROVED FOR CONTRACTOR FAILURE TO DO SO.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, OR PATCHING THAT MAY BE REQUIRED TO COMPLETE THE WORK.
16. REPETITIVE FEATURES IN THE CONSTRUCTION DOCUMENTS ARE OFTEN DRAWN ONLY ONCE AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
17. THE SUB-CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPENCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS TO THE ARCHITECT.

THE REDMOND COMPANY
• DESIGN • CONSTRUCTION
• CONSULTING • MANAGEMENT
W228 N745 Westmound Drive
Waukesha, Wisconsin 53186
tel 262.549.9600 fax 262.549.1314
Innovative Approach. Unique Solutions.
www.theredmondco.com

PROJECT INFORMATION

MEMBERS FIRST CREDIT UNION
195 CHICAGO DRIVE
JENISON, MI 49428

ISSUANCE AND REVISIONS

SITE PLAN APPLICATION

REVISIONS

#	Description	Date

AUTHORIZATION
SIGNATURE

SIGNATURE DATE
THIS SIGNATURE AUTHORIZES THE DESIGN/ BUILDER TO PROCEED TO THE NEXT PHASE OF PROJECT COMPLETION AND CERTIFIES THAT THE DESIGN/BUILDER AND THE CLIENT ARE IN AGREEMENT TO THE SCOPE OF WORK PRODUCED AND THAT THE DRAWINGS ARE IN COMPLIANCE WITH THE CLIENTS REQUIREMENTS.

SHEET INFORMATION

OWNERSHIP AND USE OF DOCUMENTS
The drawings, specifications and other documents furnished by the Design/Builder are instruments of service and shall not become the property of the Owner whether or not the Project for which they are made is commenced. Drawings, specifications and other documents furnished by the Design/Builder shall not be used by the Owner on other projects, for additions to this project or for complelson to use, liability and compensation. Submission or distribution of documents to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Design/Builder's or the Architect's common law copyrights or other reserved rights. The Owner shall own neither the documents nor the copyrights.

PROJECT NUMBER 19067
DATE 07/26/2019

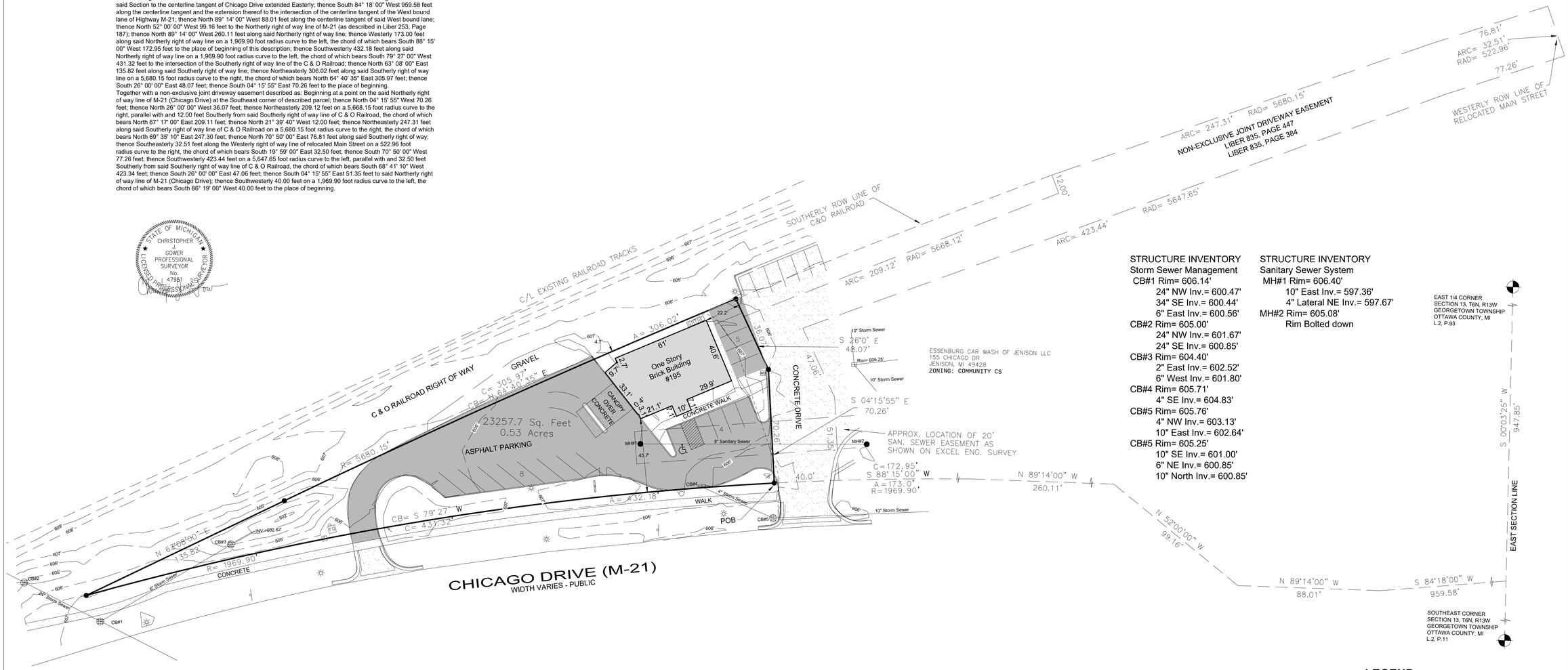
INDEX

G000

PROPERTY DESCRIPTION:

Land Situated in the State of Michigan, County of Ottawa, Township of Georgetown.
All that part of the Southeast 1/4 of Section 13, Town 6 North, Range 13 West, described as:
Commencing at the East 1/4 corner of said Section; thence South 00° 03' 25" West 947.85 feet along the East line of said Section to the centerline tangent of Chicago Drive extended Easterly; thence South 84° 18' 00" West 959.58 feet along the centerline tangent and the extension thereof to the intersection of the centerline tangent of the West bound lane of Highway M-21; thence North 89° 14' 00" West 88.01 feet along the centerline tangent of said West bound lane; thence North 52° 00' 00" West 99.16 feet to the Northerly right of way line of M-21 (as described in Liber 253, Page 187); thence North 89° 14' 00" West 260.11 feet along said Northerly right of way line; thence Westerly 173.00 feet along said Northerly right of way line on a 1,969.90 foot radius curve to the left, the chord of which bears South 88° 15' 00" West 172.95 feet to the place of beginning of this description; thence Southwesterly 432.18 feet along said Northerly right of way line on a 1,969.90 foot radius curve to the left, the chord of which bears South 79° 27' 00" West 431.32 feet to the intersection of the Southerly right of way line of the C & O Railroad; thence North 63° 08' 00" East 135.82 feet along said Southerly right of way line; thence Northeasterly 306.02 feet along said Southerly right of way line on a 5,680.15 foot radius curve to the right, the chord of which bears North 64° 40' 35" East 305.97 feet; thence South 26° 00' 00" East 48.07 feet; thence South 04° 15' 55" East 70.26 feet to the place of beginning.
Together with a non-exclusive joint driveway easement described as: Beginning at a point on the said Northerly right of way line of M-21 (Chicago Drive) at the Southeast corner of described parcel; thence North 04° 15' 55" West 70.26 feet; thence North 26° 00' 00" West 36.07 feet; thence Northeasterly 209.12 feet on a 5,668.15 foot radius curve to the right, parallel with and 12.00 feet Southerly from said Southerly right of way line of C & O Railroad, the chord of which bears North 67° 17' 00" East 209.11 feet; thence North 21° 39' 40" West 12.00 feet; thence Northeasterly 247.31 feet along said Southerly right of way line of C & O Railroad on a 5,680.15 foot radius curve to the right, the chord of which bears North 69° 35' 10" East 247.30 feet; thence North 70° 50' 00" East 76.81 feet along said Southerly right of way; thence Southeasterly 32.51 feet along the Westerly right of way line of relocated Main Street on a 522.96 foot radius curve to the right, the chord of which bears South 19° 59' 00" East 32.50 feet; thence South 70° 50' 00" West 77.26 feet; thence Southwesterly 423.44 feet on a 5,647.65 foot radius curve to the left, parallel with and 32.50 feet Southerly from said Southerly right of way line of C & O Railroad, the chord of which bears South 68° 41' 10" West 423.34 feet; thence South 26° 00' 00" East 47.06 feet; thence South 04° 15' 55" East 51.35 feet to said Northerly right of way line of M-21 (Chicago Drive); thence Southwesterly 40.00 feet on a 1,969.90 foot radius curve to the left, the chord of which bears South 86° 19' 00" West 40.00 feet to the place of beginning.

STATE OF MICHIGAN
CHRISTOPHER L. GOWER
PROFESSIONAL SURVEYOR
No. 47951
LICENSED PROFESSIONAL SURVEYOR



STRUCTURE INVENTORY
Storm Sewer Management
CB#1 Rim= 606.14'
24" NW Inv.= 600.47'
34" SE Inv.= 600.44'
6" East Inv.= 600.56'
CB#2 Rim= 605.00'
24" NW Inv.= 601.67'
24" SE Inv.= 600.85'
CB#3 Rim= 604.40'
2" East Inv.= 602.52'
6" West Inv.= 601.80'
CB#4 Rim= 605.71'
4" SE Inv.= 604.83'
CB#5 Rim= 605.76'
4" NW Inv.= 603.13'
10" East Inv.= 602.64'
CB#5 Rim= 605.25'
10" SE Inv.= 601.00'
6" NE Inv.= 600.85'
10" North Inv.= 600.85'

STRUCTURE INVENTORY
Sanitary Sewer System
MH#1 Rim= 606.40'
10" East Inv.= 597.36'
4" Lateral NE Inv.= 597.67'
MH#2 Rim= 605.08'
Rim Bolted down

LEGEND

- TRAVERSE POINT
- WELL
- HIGHWAY
- MONUMENT
- FOUND IRON STAKE
- SET IRON STAKE
- SIGN
- RR SIGN
- GUY POLE
- GUY ANCHOR
- UTILITY POLE
- LIGHT POLE
- POST
- SB#XX SOIL BORING
- U.G. UTILITY MARKER
- MB MAILBOX
- FIRE HYDRANT
- WATER VALVE
- G GAS METER
- W WATER METER
- T TELEPHONE RISER
- E ELECTRIC METER
- CATCH BASIN
- ROUND CATCH BASIN
- UTILITY MANHOLE
- STORM MANHOLE
- SANITARY MANHOLE
- E ELECTRIC MANHOLE
- T TELEPHONE MANHOLE
- SHRUB
- DECIDUOUS TREE
- CONIFEROUS TREE
- WATER UTILITY LINE
- TELEPHONE UTILITY LINE
- ELECTRIC UTILITY LINE
- GAS UTILITY LINE
- STEAM UTILITY LINE
- STORM UTILITY LINE
- SANITARY UTILITY LINE
- FIBER OPTIC UTILITY LINE
- OVERHEAD UTILITY LINE

NORTH

0 100 200
SCALE IN FEET

FLOOD NOTE:

By graphic plotting only, this property falls in ZONE X of the FLOOD INSURANCE RATE MAP, Community Panel No. 26139C0268E, which bears an effective date of December 16, 2011 and is NOT in a Special Flood Hazard Area.

BEARING BASIS:

BEARINGS BASED ON RECORD DEEDS AND VARIOUS AVAILABLE SURVEYS.

NOTES:

1. No observed evidence of current earth moving work, building construction or building additions. Table A item 16.
2. No observed evidence of recent street or sidewalk construction or repairs. Table A item 17.
3. No observed evidence of site use as a solid waste dump, sump or sanitary landfill.
4. A field delineation of wetland was not conducted on this site at the time of the survey. Table A item 18.
5. This property has direct access to Chicago Drive, a public roadway.

SURVEYOR'S NOTE:

This survey has been prepared for the exclusive use of the person or entities named hereon. No express or implied warranties with respect to the information shown hereon is to be extended to any persons or entities other than those shown hereon.

ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

GPS
GOWER PROFESSIONAL SURVEYING, P.C.

7144 Childsdale Ave, NE
Rockford, MI 49341
(616) 863-9508 Voice
(616) 866-6483 Fax
gowerpro@comcast.net

Copyright 2018 ©
By: Gower Professional Surveying, P.C.

195 CHICAGO DRIVE
JENISON, MICHIGAN 49428
The Redmond Company
Jay Carey
1-262-522-4716

TOPOGRAPHIC SURVEY
PART OF THE SOUTHEAST 1/4 OF
SECTION 13, TOWN 6 NORTH, RANGE 13 WEST
GEORGETOWN TOWNSHIP
OTTAWA COUNTY, MICHIGAN

Issue Log

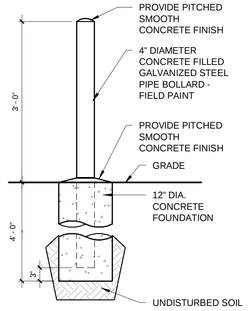
Rev	Date	Description
4		Rev 4
3		Rev 3
2		Rev 2
1		Rev 1

Field:	6/10/2019
Drawn:	6/12/2019
Checked:	6/14/2019
Approved:	6/14/2019

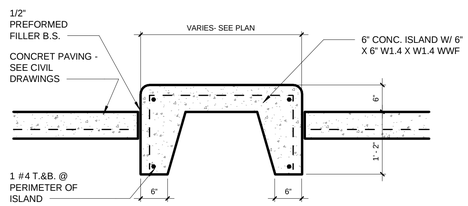
PROJECT NUMBER
2019-94

REFERENCE NUMBER
1

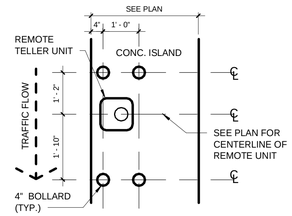
SHEET 1 OF 1



D1 BOLLARD DETAIL
3/4" = 1'-0"



D2 CONCRETE ISLAND DETAIL
3/4" = 1'-0"



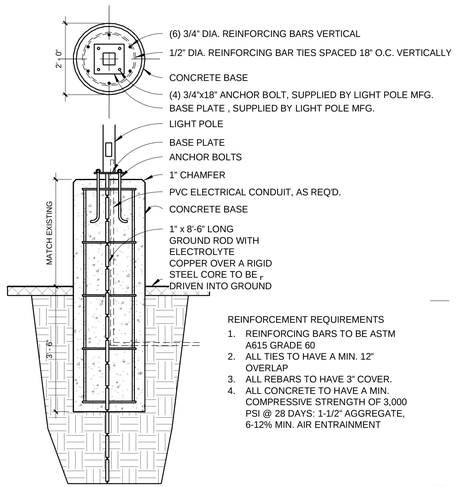
D3 DRIVE-UP KIOSK DETAIL
1/2" = 1'-0"

GENERAL NOTES - SITE PLAN

1	SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
2	ALL EXISTING ASPHALT TO BE RE-SURFACED
3	RE-STRIPE ALL EXISTING PARKING STALLS - COLOR: WHITE
4	REPAIR EXISTING ASPHALT AS NECESSARY AROUND NEW LANDSCAPE ISLANDS

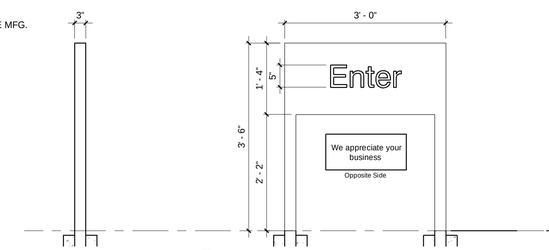
KEYNOTES PER SHEET

0205-22	EXISTING PYLON SIGN TO REMAIN - SIGN RE-SURFACING BY OWNER
0205-23	EXISTING ADA RAMP TO REMAIN
0205-24	EXISTING FIRE HYDRANT TO REMAIN
0241-35	REMOVE EXISTING LIGHT POLE AND BASE - SALVAGE LIGHT POLE FOR REINSTALLATION
0241-36	REMOVE PORTION OF EXISTING CONCRETE CURB AS SHOWN
0241-41	REMOVE PORTION OF EXISTING CONCRETE SIDEWALK TO NEAREST CONTROL JOINT FOR NEW COLUMN FOUNDATIONS - PATCH CONCRETE AS NECESSARY
1014-09	VEHICLE DIRECTIONAL SIGNAGE BY OWNER (SEE DETAIL C2/AS101
1014-10	VEHICLE DIRECTIONAL SIGNAGE BY OWNER (SEE DETAIL C3/AS101
2656-01	RELOCATED LIGHT POLE ON NEW CONCRETE BASE - SEE DETAIL C1/AS101
3212-01	ASPHALT PAVING (SEE CIVIL DRAWINGS)
3213-01	CONCRETE PAVING (SEE CIVIL DRAWINGS)
3216-01	CONCRETE CURB (SEE CIVIL DRAWINGS)
3217-01	PAVEMENT STRIPING AS SHOWN - TYPICAL
3217-04	POST MOUNTED DO NOT ENTER SIGN

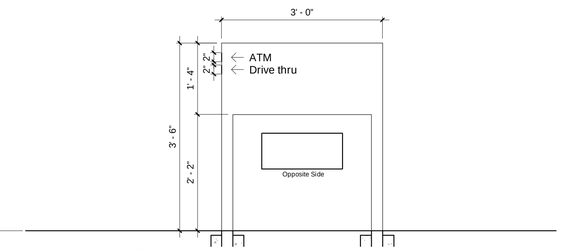


REINFORCEMENT REQUIREMENTS
1. REINFORCING BARS TO BE ASTM A615 GRADE 60
2. ALL TIES TO HAVE A MIN. 12" OVERLAP
3. ALL REBARS TO HAVE 3" COVER.
4. ALL CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS: 1-1/2" AGGREGATE, 6-12% MIN. AIR ENTRAINMENT

C1 LIGHT POLE BASE DETAIL
1/2" = 1'-0"



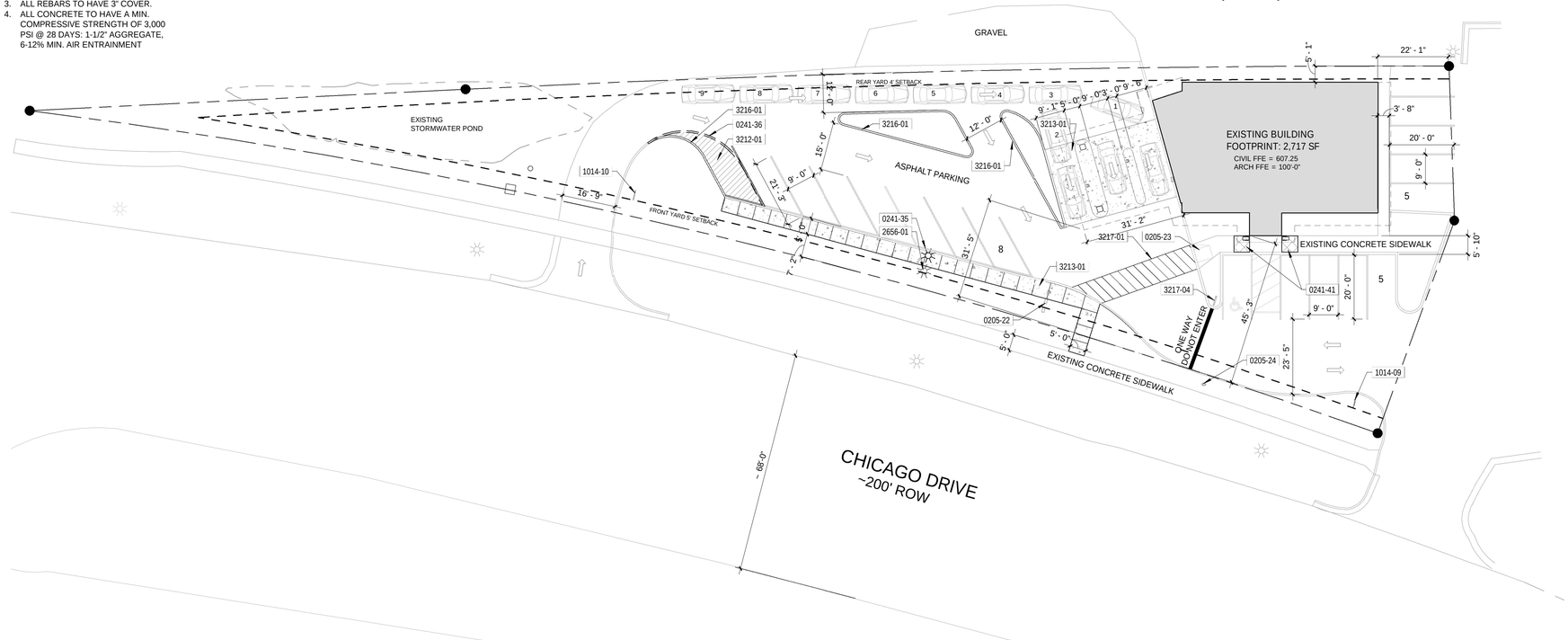
C2 DIRECTIONAL SIGNAGE-ENTER
3/4" = 1'-0"



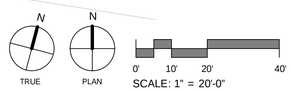
C3 DIRECTIONAL SIGNAGE-ATM AND DRIVE-THRU
3/4" = 1'-0"

SITE INFORMATION
TOTAL SITE AREA
- 23,258 SF (0.53 ACRES)
CURRENT ZONING
- COMMUNITY SERVICE COMMERCIAL
- DRIVE-THRU BANKS ARE PERMITTED.
- 5' FRONT YARD SETBACK
- 4' REAR YARD SETBACK
- NO SIDE YARD SETBACK (25' SIDE YARD ADJACENT TO RESIDENTIAL)
- FRONT YARD MUST BE LANDSCAPED AND CONTAIN NO PARKING OR ACCESSORY STRUCTURES. NESSESSARY DRIVES AND WALKS ARE ALLOWED.
- 35' MAX HEIGHT
- NO MAX OR MIN LOT COVERAGE %

PARKING REQUIREMENTS
- 1 SPACE PER 300 SF OF BUILDING AREA
  18 PROVIDED, 10 REQUIRED
- 90° SPACES SHOULD MEASURE 9' x 20'
- 30°-75° SPACES TO MEASURE 9' x 21'
STACKING REQUIREMENTS
- 3 CARS PER DRIVE UP WINDOW = 9 TOTAL
SIGNAGE
- 1 FREESTANDING SIGN LESS THAN 25' TALL WITH A MAX OF 75 SQ FT PER SIDE.
- 200 SQ FT OR 1.5 SQ FT PER 1 FT OF STREET FRONTAGE. WHICHEVER IS LESS.



B1 ARCHITECTURAL SITE PLAN
1" = 20'-0"



THE REDMOND COMPANY
• DESIGN • CONSTRUCTION
• CONSULTING • MANAGEMENT
W228 N745 Westmound Drive
Waukesha, Wisconsin 53186
tel 262.549.9600 fax 262.549.1314
Innovative Approach. Unique Solutions.
www.theredmondco.com

PROJECT INFORMATION

MEMBERS FIRST CREDIT UNION
195 CHICAGO DRIVE
JENISON, MI 49428

ISSUANCE AND REVISIONS

SITE PLAN APPLICATION

REVISIONS

#	Description	Date

AGENT SIGNATURE

SHEET INFORMATION

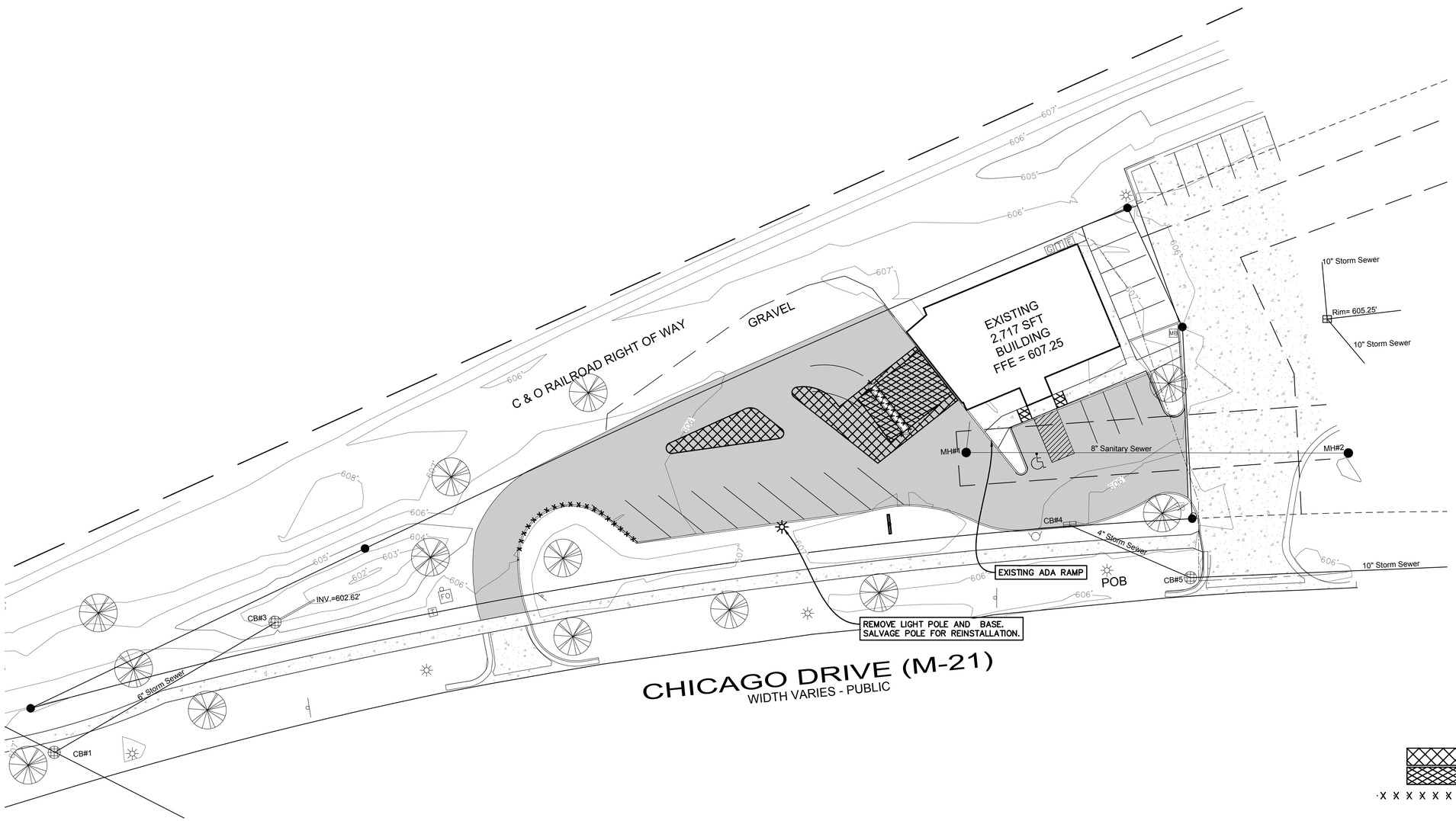
OWNERSHIP AND USE OF DOCUMENTS

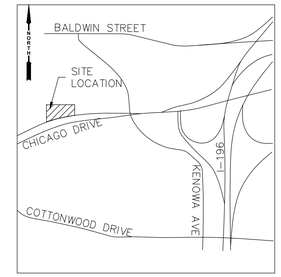
The drawings, specifications and other documents furnished by the Design/Builder are instruments of service and shall not become the property of the Owner whether or not the Project for which they are made is commenced. Drawings, specifications and other documents furnished by the Design/Builder shall not be used by the Owner on other projects, for additions to this project or for completion to use, liability and compensation. Submission or distribution of documents to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Design/Builder's or the Architect's common law copyrights or other reserved rights. The Owner shall own neither the documents nor the copyrights.

PROJECT NUMBER	19067
DATE	07/26/2019

ARCHITECTURAL SITE PLAN

AS101





LOCATION MAP
NO SCALE:

REMOVAL LEGEND

- REMOVE BITUMINOUS
- REMOVE CONCRETE
- REMOVE CURB & GUTTER

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS. CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
4. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
5. ALL SOIL EROSION CONTROL MEASURE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
6. THE CONTRACTOR SHALL CLEAN PUBLIC STREETS DAILY OF ANY DIRT AND/OR DEBRIS FROM CONSTRUCTION SITE.

PLAN SCALE: 1" = 20'

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

PLAN REVISIONS

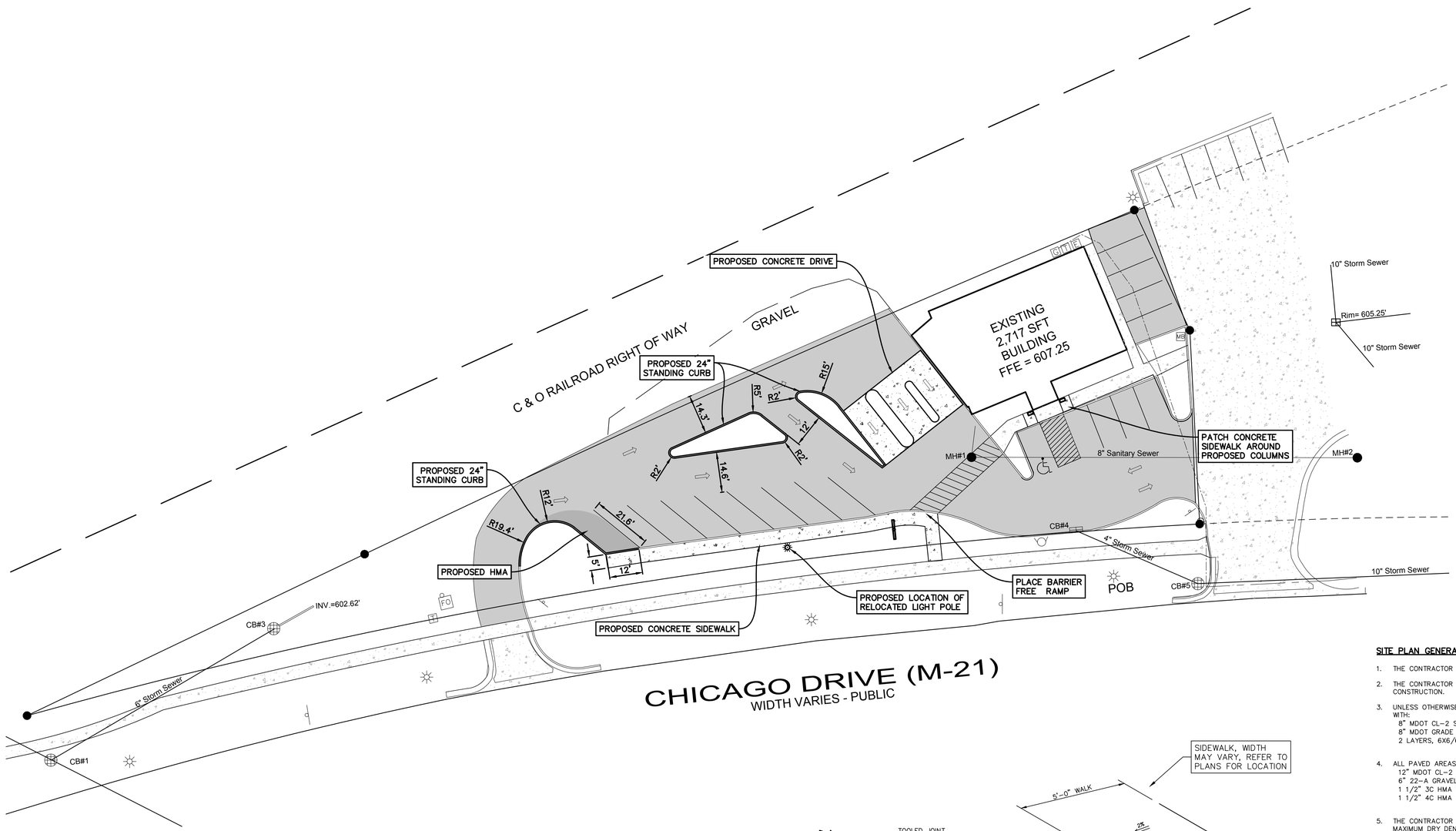
Moore+Bruggink
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801
mailbox@mbce.com

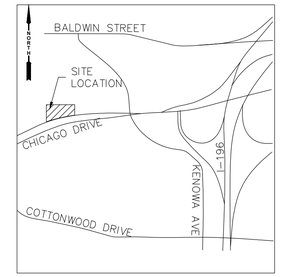
EXISTING CONDITIONS & REMOVALS
FOR
195 CHICAGO DRIVE
GEORGETOWN TOWNSHIP,
OTTAWA COUNTY, MICHIGAN

FIELD SURVEY / DATE	EXCEL
PROJECT NO.:	190179.1
DESIGN DRAWN BY:	ARM
DESIGNED BY:	
CHECKED BY:	JL
PLAN DATE:	7/26/2019

SHEET NUMBER
1 OF **4**

P:\190179.1 195 Chicago Drive - Jenison\CADD\DWG\190179 Chicago Drive DESIGN.dwg, 7/24/2019 2:24:29 PM, ALEX MIEDEMA

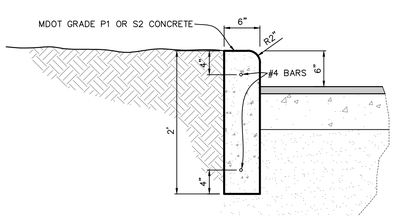




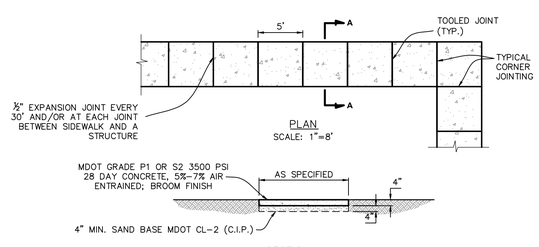
LOCATION MAP
NO SCALE:

SITE PLAN GENERAL NOTES:

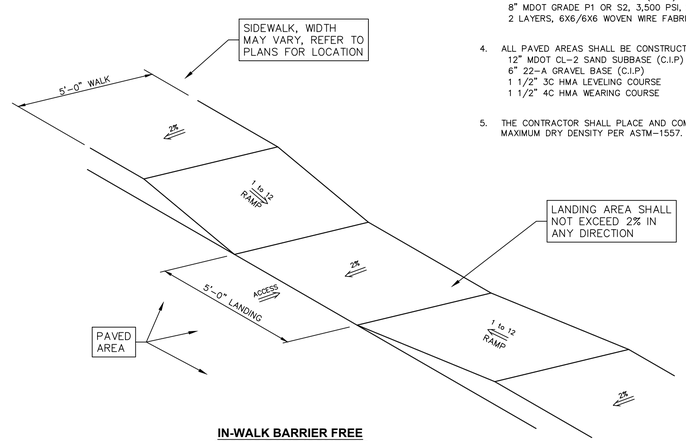
1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. UNLESS OTHERWISE SPECIFIED, REINFORCED CONCRETE AREAS SHALL BE CONSTRUCTED WITH:
   8" MDOT CL-2 SAN SUBBASE (C.I.P.)
   8" MDOT GRADE P1 OR S2, 3,500 PSI, 28-DAY, 5-7% AIR ENTRAINED, BROOM FINISH
   2 LAYERS, 6X6/6X6 WOVEN WIRE FABRIC.
4. ALL PAVED AREAS SHALL BE CONSTRUCTED WITH:
   12" MDOT CL-2 SAND SUBBASE (C.I.P)
   6" 22-A GRAVEL BASE (C.I.P)
   1 1/2" 3C HMA LEVELING COURSE
   1 1/2" 4C HMA WEARING COURSE
5. THE CONTRACTOR SHALL PLACE AND COMPACT ALL AREAS TO A MINIMUM OF 90% MAXIMUM DRY DENSITY PER ASTM-1557.



6" x 24" STANDING CONCRETE CURB DETAIL
SCALE: 1"=1'



4" CONCRETE SIDEWALK DETAIL



IN-WALK BARRIER FREE ACCESS RAMP ISOMETRIC
SCALE: N.T.S.

PLAN SCALE: 1" = 20'

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

PLAN REVISIONS

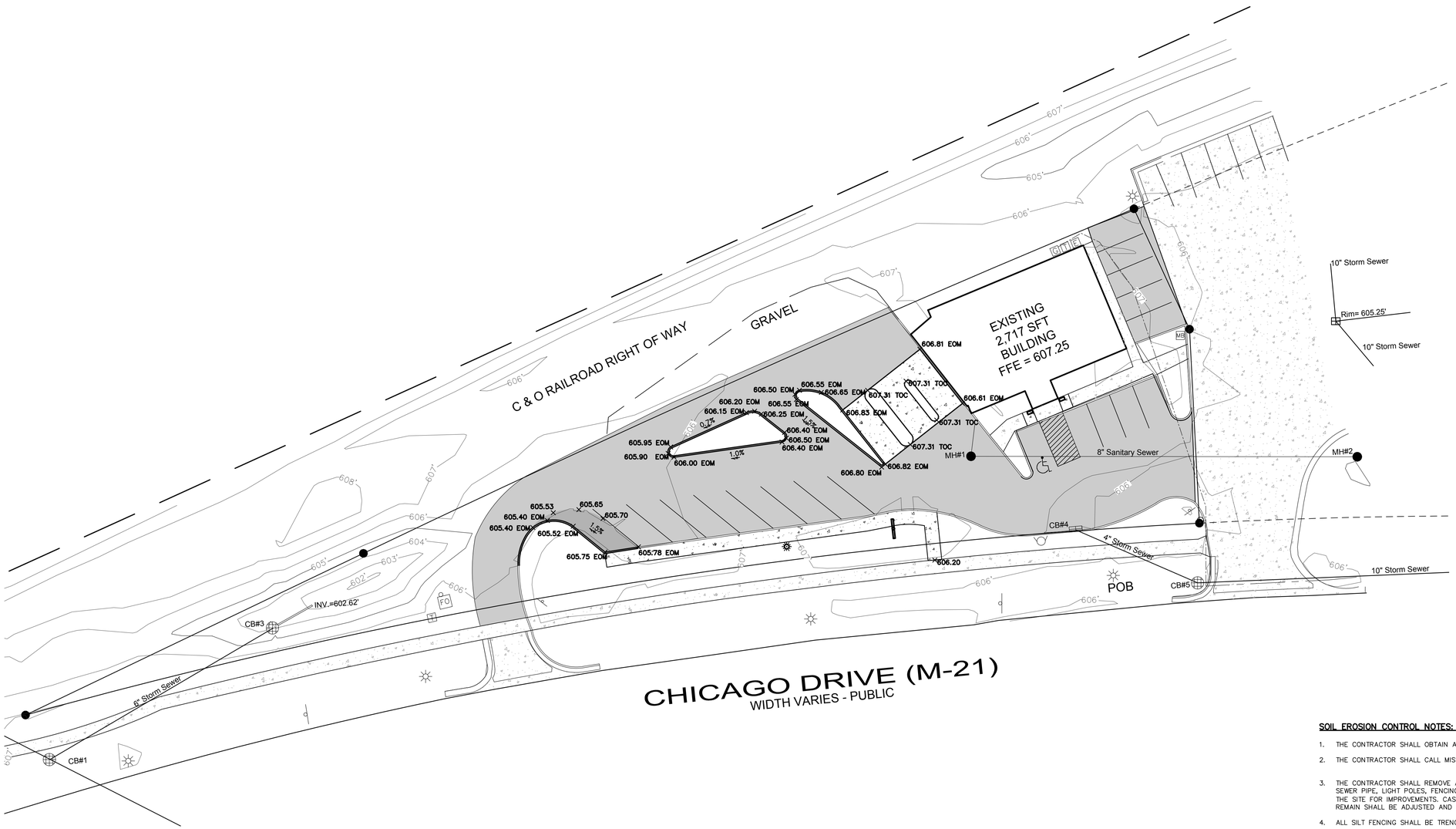
Moore+Bruggink
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com

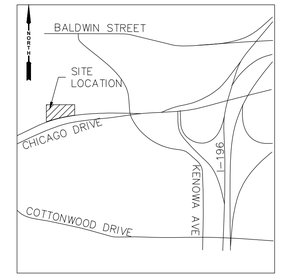
SITE PLAN FOR
195 CHICAGO DRIVE
GEORGETOWN TOWNSHIP, OTTAWA COUNTY, MICHIGAN

FIELD SURVEY / DATE	EXCEL
PROJECT NO.:	190179
DESIGN DRAWN BY:	ARM
DESIGNED BY:	
CHECKED BY:	JL
PLAN DATE:	07/26/2019

SHEET NUMBER
2 OF **4**

P:\190179.1 195 Chicago Drive - Jenison\CAD\DWG\190179 Chicago Drive DESIGN.dwg, 7/24/2019 2:24:40 PM, ALEX MIEDEMA





LOCATION MAP
NO SCALE:

GRADING LEGEND
EOM– EDGE OF METAL GRADE
TOC– TOP OF CURB GRADE

SOIL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, STORM SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, FENCING, UNDERGROUND ELECTRIC, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS. CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
4. ALL SILT FENCING SHALL BE TRENCHED IN PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
5. SILT FENCING IS REQUIRED ALONG ALL DOWNSTREAM EDGES OF THE GRADING LIMITS AND MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE–ESTABLISHED.
6. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH THE CITY OF GRAND RAPIDS LUDS PERMIT, ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
7. NEW & EXISTING STORM SEWER INLET POINTS SHALL BE PROTECTED FROM SEDIMENT INFILTRATION WITH INLET FABRIC DROP (SILT SACK).
8. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS, AND IMMEDIATELY FOLLOWING EVERY SIGNIFICANT RAINFALL EVENT.
9. ALL EXCESS SPOILS ARE TO BE REMOVED FROM THE SITE. OTHERWISE STOCKPILES MUST BE PROVIDED WITH TEMPORARY AND PERMANENT STABILIZATION MEASURES.
10. IF EXCESS DIRT IS TO BE PLACED ON SITE, THE LOCATION SHALL BE APPROVED BY THE PROPERTY OWNER & ENGINEER.
11. ALL TEMPORARY EROSION CONTROLS MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE–ESTABLISHED.
12. DUST CONTROL SHALL BE PROVIDED BY MEANS OF WATER DISTRIBUTION ON A REGULAR BASIS OVER AREAS THAT COULD POTENTIALLY PRODUCE DUST CONDITIONS.
13. CONTRACTOR SHALL SWEEP PAVED AREAS EACH DAY (OR MORE AS NEEDED) BY MECHANICAL MEANS FOR ALL PAVED AREAS IN AND AROUND THE PERIMETER OF THE PROJECT AFFECTED BY TRUCKING OPERATIONS.
14. CONSTRUCTION ENTRANCE SHALL BE PROVIDED FROM CHICAGO DRIVE.

PLAN SCALE: 1" = 20'

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

PLAN REVISIONS

Moore+Bruggink
Consulting Engineers
2020 Monroe Ave
Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com

GRADING PLAN
FOR
195 CHICAGO DRIVE
GEORGETOWN TOWNSHIP
OTTAWA COUNTY, MICHIGAN

FIELD SURVEY / DATE	EXCEL
PROJECT NO.:	190179
DESIGN DRAWN BY:	ARM
DESIGNED BY:	
CHECKED BY:	JL
PLAN DATE:	07/26/2019

SHEET NUMBER
3 OF 4

P:\190179 I 195 Chicago Drive - Jenison\CAD\DWG\190179 Chicago Drive DESIGN.dwg, 7/24/2019 3:49:23 PM, ALEX MIEDEMA

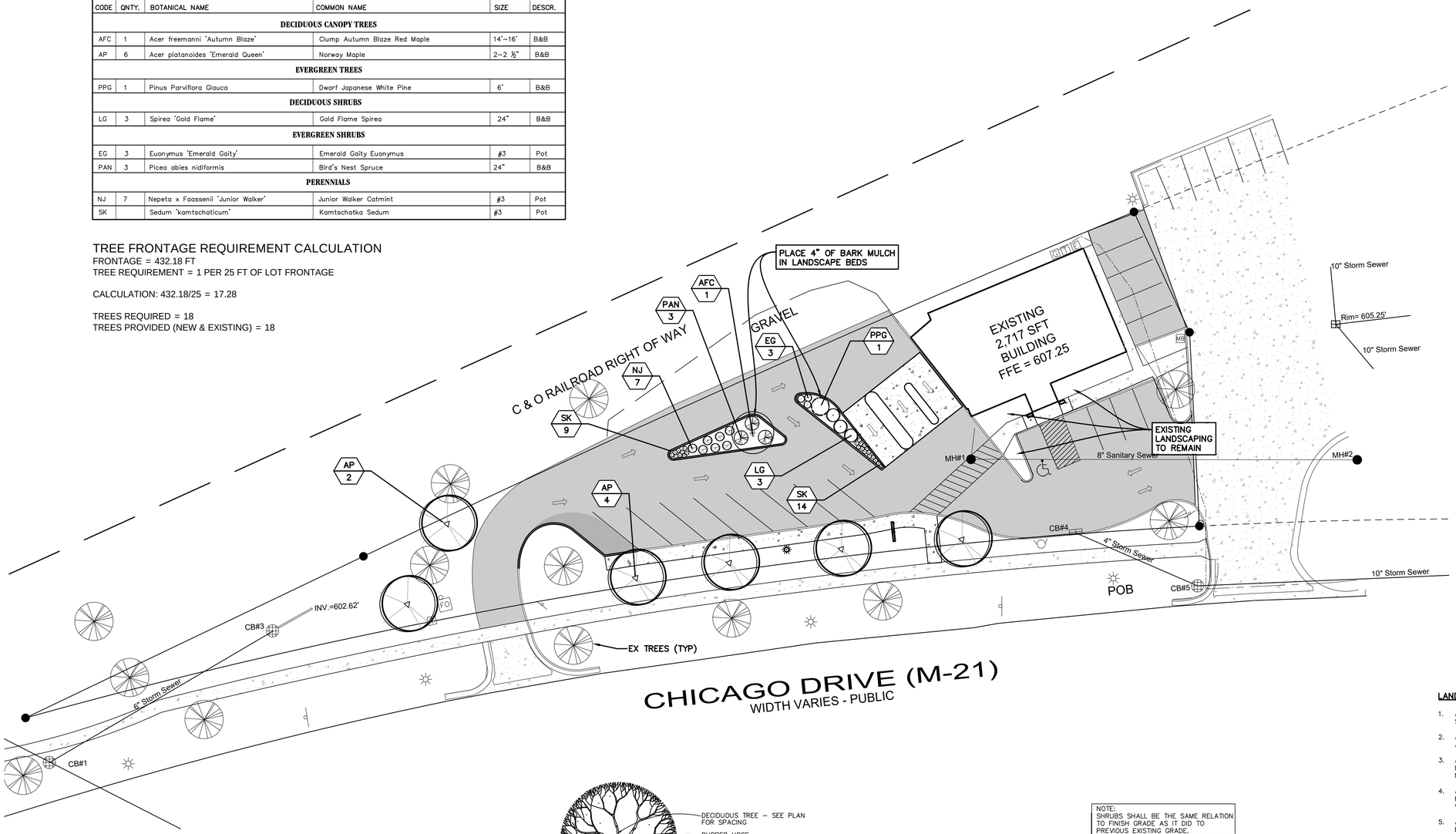
PLANT LIST					
CODE	QNTY.	BOTANICAL NAME	COMMON NAME	SIZE	DESCR.
DECIDUOUS CANOPY TREES					
AFC	1	Acer freemanni 'Autumn Blaze'	Clump Autumn Blaze Red Maple	14'-16'	B&B
AP	6	Acer platanoides 'Emerald Queen'	Norway Maple	2-2 ½"	B&B
EVERGREEN TREES					
PPG	1	Pinus Parviflora Glauca	Dwarf Japanese White Pine	6'	B&B
DECIDUOUS SHRUBS					
LG	3	Spirea 'Gold Flame'	Gold Flame Spirea	24"	B&B
EVERGREEN SHRUBS					
EG	3	Euonymus 'Emerald Gaity'	Emerald Gaity Euonymus	#3	Pot
PAN	3	Picea abies nidiformis	Bird's Nest Spruce	24"	B&B
PERENNIALS					
NJ	7	Nepeta x Faassenii 'Junior Walker'	Junior Walker Catmint	#3	Pot
SK		Sedum 'kamtschaticum'	Kamtschatka Sedum	#3	Pot

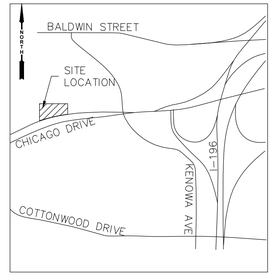
TREE FRONTAGE REQUIREMENT CALCULATION

FRONTAGE = 432.18 FT
TREE REQUIREMENT = 1 PER 25 FT OF LOT FRONTAGE

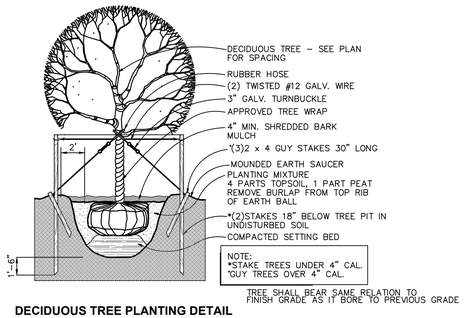
CALCULATION: 432.18/25 = 17.28

TREES REQUIRED = 18
TREES PROVIDED (NEW & EXISTING) = 18

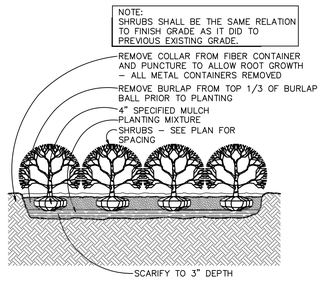




LOCATION MAP
NO SCALE:



DECIDUOUS TREE PLANTING DETAIL
SCALE: 1"=6'



SHRUB PLANTING DETAIL
SCALE: 1"=2'

LANDSCAPING GENERAL NOTES:

1. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
2. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
3. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
4. 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 ACCEPTED.
5. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
6. SHRUBS AND PERENNIALS SHALL BE FULL AND WELL ROOTED. INSTALLATION SHALL BE MARCH 1 - NOVEMBER 30, ANNUALLY.
7. ALL PLANT MATERIALS SHALL BE NORTHERN NURSERY GROWN, NO. 1 GRADE AND INSTALLED ACCORDING TO ACCEPTED PLANTING PROCEDURES. ALL PLANT MATERIALS SHALL MEET CURRENT AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS.
8. ALL PROPOSED MULCH TO BE NATURAL COLOR, DOUBLE PROCESSED, SHREDDED HARDWOOD BARK, 4" THICK BARK MULCH FOR TREES IN A 4-FOOT DIAMETER CIRCLE WITH 3" PULLED AWAY FROM THE TRUCK, 3" THICK BARK FOR SHRUBS AND 2" THICK BARK FOR PERENNIALS, TYP.
9. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS FOR A TIME PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF ALL WORK ITEMS. DURING THIS GUARANTEE PERIOD, THE CONTRACTOR SHALL IMMEDIATELY REPLACE ALL PLANT MATERIALS THAT DIE OR ARE DISEASED.
10. YARD AREAS ARE TO BE RESTORED WITH 4" OF TOPSOIL, CLASS A SEED AT 200#/ACRE, FERTILIZER & MULCH (MULCH BLANKET ON SLOPES 1:3 OR STEEPER).

PLAN SCALE: 1" = 20'

Know what's below. Call before you dig.

PLAN REVISIONS

Moore+Bruggink
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801 mailbox@mbce.com

LANDSCAPE PLAN FOR
195 CHICAGO DRIVE
GEORGETOWN TOWNSHIP
OTTAWA COUNTY, MICHIGAN

FIELD SURVEY / DATE	EXCEL
PROJECT NO.:	190179
DESIGN DRAWN BY:	ARM
DESIGNED BY:	
CHECKED BY:	JL
PLAN DATE:	07/26/2019
SHEET NUMBER	4 OF 4

P:\190179.1 195 Chicago Drive - Jenison\CAD\DWG\190179 Chicago Drive DESIGN.dwg, 7/29/2019 2:43:10 PM, GREG WHITE