# West Huron Properties Pavement Improvements 416, 410 & 404 W Huron Street Ann Arbor, MI 48103

# **UTILITY COMPANIES**

TELEPHONE AT&T 550 S MAPLE ROAD ANN ARBOR, MI 48103 PH: 734.996.5322

ELECTRICAL
DETROIT EDISON
8001 HAGGERTY RD.
BELLEVILLE, MI 48111
PH: 734.397.4321

DTE GAS COMPANY
ONE ENERGY PLAZA WCB-1710
DETROIT, MI 48226
PH: 313.235-1001

WATER & SEWER
CITY OF ANN ARBOR
301 E. HURON STREET
ANN ARBOR, MI 48107
PH. 734.794.6410

### WARNING!!

PERMITS REQUIRED FOR PROJECT

CITY OF ANN ARBOR

W.C.W.R.C

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXAC UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



Orientation Sca

WEST HURON
PROPERTIES, LLC
PAVEMENT
IMPROVEMENTS



416, 410 & 404 W. HURON ST

### **PROJECT DESCRIPTION**

PROJECT INCLUDES REMOVING EX. ASPHALT PAVEMENT AND UNDERCUTTING AGGREGATE BASE AS MARKED BY ENGINEER TO SUPPORT PROPOSED HMA PAVEMENT. EXCAVATE EX. GRAVEL LOT TO ALLOW INSTALLATION OF PROPOSED HMA SECTION. ADDITIONAL IMPROVEMENTS INCLUDE THE INSTALLATION OF BIORETENTION AREAS AND PRETREATMENT DEVICES FOR STORM WATER MANAGEMENT. NO CHANGES ARE PLANNED TO EXISTING BUILDINGS AS PART OF THIS PROJECT. NO FIREWALLS EXIST OR WILL BE CONSTRUCTION AS PART OF THIS PROJECT.



### **LEGAL DESCRIPTION**

TAKEN FROM ABSOLUTE TITLE COMMITMENT #76237, EFFECTIVE DATE MAY 27, 2014.

COMMENCING AT SOUTHWEST CORNER OF LOT 2, SIPLEY'S SUBDIVISION IN THE CITY OF ANN ARBOR AS RECORDED IN LIBER 2 OF PLATS, PAGE 24, WASHTENAW COUNTY RECORDS, WASHTENAW COUNTY, MICHIGAN; THENCE EASTERLY ALONG THE NORTH LINE OF HURON STREET 14.0 FEET FOR A PLACE OF BEGINNING;

THENCE NORTHERLY DEFLECTING 90° TO THE LEFT 110.0 FEET;
THENCE WESTERLY DEFLECTING 90° TO THE LEFT 52.56 FEET;
THENCE ALONG THE WEST LINE OF LOT 13, SAID SIPLEY'S SUBDIVISION DEFLECTING 107°08' TO THE RIGHT 270.63 FEET;

THENCE DEFLECTING 90° TO THE RIGHT 49.0 FEET; THENCE NORTHERLY DEFLECTING 90°18' TO THE LEFT 34.51 FEET;

THENCE DEFLECTING 20°53' TO THE RIGHT 48.28 FEET; THENCE DEFLECTING 12°55' TO THE RIGHT 29.0 FEET;

THENCE DEFLECTING 30°57' TO THE LEFT 59.0 FEET;
THENCE DEFLECTING 95°24' TO THE RIGHT 20.32 FEET;

THENCE SOUTHERLY ALONG THE WEST LINE OF ANN ARBOR RAILROAD COMPANY LANDS ALONG THE ARC OF CIRCULAR CURVE CONCAVE TO THE EAST, RADIUS 1950.08 FEET; SUBTENDED BY A CHORD DEFLECTING 67°56' TO THE RIGHT FROM

THE EXTENSION OF THE LAST DESCRIBED COURSE 194.09 FEET.
THENCE WESTERLY DEFLECTING 86°49' TO THE RIGHT 12.88 FEET;
THENCE ALONG THE WEST LINE OF ANN ARBOR RAILROAD COMPANY LANDS

THENCE ALONG THE NORTH LINE OF HURON STREET, DEFLECTING 96°34 TO THE RIGHT 184.98 FEET TO THE PLACE OF BEGINNING, BEING LOTS 1 AND 13 AND PART OF LOT 2, SAID SIPLEY'S SUBDIVISION AND OTHER LAND IN THE NORTHWEST ¼ OF SECTION 29, T2S, R6E, CITY OF ANN ARBOR, MICHIGAN.

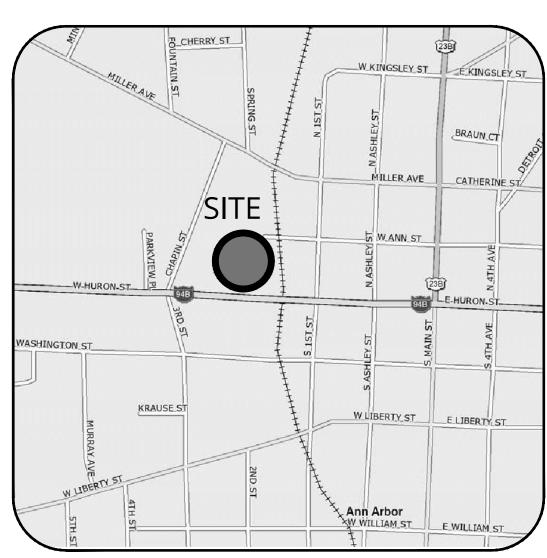
TOTAL AREA = 71,022 SF = 1.63 AC

DEFLECTING 96°24' TO THE LEFT 298.57 FEET;

### **STORM WATER NARRATIVE**

THE SUBJECT PROPERTY DRAINS INTO THE ALLEN CREEK, WHICH IS AN ENCLOSED 162" X 96" BOX CULVERT WITH AN ARCHED TOP THAT RUNS NORTH-SOUTH THROUGH THE PROPERTY AND UNDER THE EXISTING PARKING LOT. APPROXIMATELY ½ ACRE OF GRAVEL PARKING LOT IS BEING PROPOSED TO BE PAVED, WHICH WILL HAVE A SLIGHT INCREASE IN THE STORM RUNOFF'S PEAK FLOW AND VOLUME TO THE STORM WATER COLLECTION SYSTEM. THIS WOULD TYPICALLY REQUIRE DETENTION TO MITIGATE FOR ANY RUNOFF INCREASE TO THE ALLEN CREEK DRAIN. HOWEVER, A HYDRAULIC ANALYSIS SHOWS THAT THE PAVING IMPROVEMENTS WILL HAVE A NEGLIGIBLE EFFECT ON THE PEAK FLOWS IN THE ALLEN CREEK DRAIN AND A QUICKER RELEASE WILL BENEFIT THE OVERALL WATERSHED AS IT RELATES TO THE TIMING OF THE STORM EVENT. BASED ON OUR HYDRAULIC AND HYDROLOGY STUDY RESULTS AND THE EXISTING 90 FOOT WIDE DRAIN EASEMENT ENCUMBRANCE ON THE PROPERTY THAT WOULD NOT ALLOW ANY STRUCTURE TO BE PLACED WITHIN, DETENTION WILL NOT BE PROVIDED AS PART OF THE IMPROVEMENTS AT THIS SITE.

THE PROPOSED STORM WATER MANAGEMENT PLAN WILL BENEFIT THE WATER QUALITY FOR THIS PROPERTY WITHIN THE ALLEN CREEK WATERSHED. DURING EXISTING STORM EVENTS, THE SEDIMENT FROM THE EXISTING GRAVEL PARKING LOT CAN BE WASHED INTO THE STORM SEWER AND CARRIED DOWNSTREAM. BY REPLACING THE GRAVEL WITH A HARD SURFACE PAVEMENT AND PROVIDING STORM WATER TREATMENT FOR THE COLLECTION SYSTEM, THE WATER SHED WILL BENEFIT FROM A WATER QUALITY STAND POINT PRIOR TO ENTERING THE DRAIN.



# LOCATION MAP NOT TO SCALE

### **OWNER**

W. HURON PROPERTIES 416 W HURON STREET ANN ARBOR, MI 48103

CONTACT: MR. TOM VAN FOSSEN PH: 734.922.5803

# **OWNER'S REPRESENTATIVE**

W. HURON PROPERTIES 416 W HURON STREET ANN ARBOR, MI 48103

CONTACT: MS. CATHY KIMMELL PH: 248.921.6879

# **ENGINEER/APPLICANT**

SME 43980 PLYMOUTH OAKS BLVD. PLYMOUTH, MI 48170

CONTACT: MR. JASON SCHWARTZENBERGER PH: 734.454.9900 www.sme-usa.com

SME PROJECT NO. 081266.00

# ARCHITECT

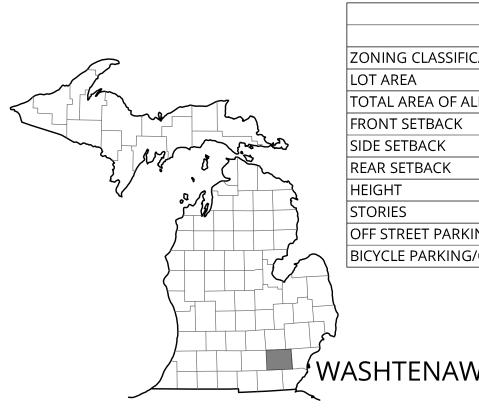
CORNERSTONE DESIGN, INC 210 COLLINGWOOD, SUITE 106 ANN ARBOR, MI 48103

CONTACT: MR. DAVID ESAU, AIA PH: 734.663.7580

### **SURVEYOR**

MIDWESTERN CONSULTING 3815 PLAZA DRIVE ANN ARBOR, MI 48108

CONTACT: MR. PAUL KOVACS, PS PH: 734.332.5315



**COUNTY MAP** 

NOT TO SCALE

# LIST OF DRAWINGS

GRADING/ SOIL FROSION

SHEET No. SHEET TITLE C-100 **COVER SHEET** C-200 GENERAL PROJECT NOTES C-300 ALTA SURVEY C-400 **EXISTING SITE CONDITIONS** C-401 EXISTING UTILITIES PLAN C-500 SITE LAYOUT PLAN C-501 **VEHICLE TURNING SIMULATIONS** GRADING, SESC, & STORM WATER MANAGEMENT PLAN C-700 UTILITY PLAN DRAINAGE AREA MAP LANDSCAPE DEVELOPMENT PLAN 

# SITE DATA

NING: D2 - DOWNTOWN INTERFACE

ZONING NORTH: ZONING SOUTH: ZONING EAST:

PARKING LOT:

MINIMUM LOT AREA: NONE
MINIMUM LOT WIDTH: NONE

USE/AREA 404 W HURON ST - OFFICE/WAREHOUSE/INDUSTRIAL (2,066 SF) 410 W HURON ST - OFFICE, THEATER AND STORAGE

DETAILS

DETAILS

D2 - DOWNTOWN INTERFACE

D2 - DOWNTOWN INTERFACE

R2A - TWO-FAMILY DWELLING

PUD - PLANNED UNIT DEVELOPMENT

URON ST - OFFICE, THEATER AND STORAGE (BASEMENT 2,133 SF) (1ST FLOOR 2,722 SF) (2ND FLOOR 1,432 SF)

416 W HURON ST - OFFICE/WAREHOUSE/INDUSTRIAL (BASEMENT 603 SF) (1ST FLOOR 15,376 SF)

(2ND FLOOR 7,825 SF)
A MAXIMUM OF 15 PARKING SPACES ARE ALLOWED IN A

PARKING ROW WITHOUT A LANDSCAPE ISLAND BREAK

STANDARD STALLS 92
ADA STALLS 4
TOTAL 96

PROPOSED
REQUIRED STALLS N/A (D2 ZONING)
STANDARD STALLS 47
SMALL CAR STALLS 21
ADA REQUIRED 4 (1 VAN)
ADA PROVIDED 4 (1 VAN)

COMPARISO	ON CHART OF REQU	JIREMENTS	
	EXISTING	REQUIRED	PROPOSED
ZONING CLASSIFICATION	D2	N/A	D2
LOT AREA	71,022 SF/1.63 AC	N/A	71,022 SF/1.63 AC
TOTAL AREA OF ALL FLOORS	20,188 SF	N/A	20,188 SF
FRONT SETBACK	0	0	0
SIDE SETBACK	15 FT	15 FT	15 FT
REAR SETBACK	20 FT	20 FT	20 FT
HEIGHT	60 FT	60 FT	60 FT
STORIES	3	3	3
OFF STREET PARKING	96	N/A	72
BICYCLE PARKING/CLASS	0	3	4

### **CONSTRUCTION ESTIMATE**

ESTIMATED TOTAL COST OF CONSTRUCTION: \$200,000

**ISSUED FOR SITE PLAN APPROVAL** 

ANN ARBOR, MI 48103

COVER SHEET

Engineer's Seal

OF MICHAEL

O

 Revisions

 REV
 ISSUED FOR
 DATE
 BY

 01
 SITE PLAN SUBMITTAL
 09/26/2019
 KMA

 02
 SITE PLAN SUBMITTAL
 05/19/2020
 JAS

 03
 SITE PLAN PER CITY COMMENTS
 07/22/2020
 JAS

 04
 SITE PLAN WCWRC SUBMITTAL
 10/08/2020
 HJC

 05
 SITE PLAN PER CITY COMMENTS
 10/26/2020
 HJC

 06
 SITE PLAN PER CITY COMMENTS
 11/11/2020
 HJC



Date

08-26-2019

SME Project No.

081266.00

Project Manager:

JAS

Designer:

JAS

Designer:
HJC

CADD:
HJC

Checked By:
BH

Sheet No.

**C-100** 

AWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA

NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME

② 2020

CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF NEARBY STRUCTURES,

### **GENERAL NOTES**

- 1. MATERIAL AND CONSTRUCTION METHODS SHALL FOLLOW THE PRACTICE DEFINED BY THE 2012 EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND APPLICABLE SPECIAL PROVISIONS UNLESS OTHERWISE MODIFIED HEREWITHIN OR IN THE PROJECT SPECIFICATIONS
- 2. THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM AVAILABLE DATA. OWNER WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE PA OF 2013 AS A CONDITION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. CALL 811.
- 3. FOR PRIVATE UTILITIES, CONTRACTOR SHALL RETAIN THE SERVICES OF A PRIVATE UTILITY LOCATOR TO LOCATE ALL PRIVATE UTILITIES OWNED BY OWNER.
- CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES OR DISRUPTION OF ANY UTILITY.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR UTILITIES DAMAGED DURING CONSTRUCTION. SPRINKLER SYSTEMS SHALL BE REPAIRED BY CONTRACTOR AT NO COST TO OWNER.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR FOR ANY OTHER CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.
- 7. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROTECTION OF PROPERTY
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. ALL TRAFFIC CONTROL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SHALL SUBMIT ALL REQUESTS TO OWNER'S REPRESENTATIVE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE ANTICIPATED NEED TO CLOSE AREAS.
- 9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND CONFORMING TO ALL APPLICABLE PERMIT REQUIREMENTS.
- 10. CONTRACTOR SHALL SUBMIT ALL MATERIAL SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS INCLUDING ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE MIX DESIGNS TO OWNER AND/OR OWNER'S REPRESENTATIVE A MINIMUM OF 14 DAYS PRIOR TO BEGINNING FIELD WORK.
- 11. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND FIELD VERIFICATION. ADJUST CATCH BASINS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE. (MIN. 1.5%). DRAINAGE ISSUES SHALL BE BROUGHT TO THE ATTENTION OF SME PRIOR TO PLACEMENT OF ANY PAVEMENT STRUCTURE LAYERS. AREAS OF PONDING WATER SHALL BE REPAIRED BY FULL DEPTH PATCHING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PERFORM WALKTHROUGH WITH OWNER AND SME BEFORE PLACEMENT OF ASPHALT CONCRETE LEVELING COURSE TO REVIEW PROPOSED GRADES.
- 12. OBJECTS DESIGNATED TO REMAIN INCLUDING SIDEWALKS, PAVEMENT, CURB, LIGHT POLES, TRAFFIC SIGNS, LANDSCAPE AREAS, ETC. SHALL BE PROTECTED. IF DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED TO OWNER SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
- 13. UPON COMPLETION OF EACH DAY OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS AND SHALL PROVIDE ALL NECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES.
- 14. THE CONTRACTOR SHALL HAVE AN APPROVED SET OF FINAL PLANS MARKED "FOR CONSTRUCTION" ON THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL KEEP ACCURATE AND LEGIBLE RECORDS OF ALL CHANGES OF WORK THAT OCCUR DURING CONSTRUCTION AND INFORMATION ON "AS-BUILT" CONDITIONS. DOCUMENTATION OF CHANGES AND AS-BUILT INFORMATION SHALL BE RECORDED ON AN APPROVED SET OF FINAL PROJECT PLANS AND DELIVERED TO SME AFTER COMPLETION OF WORK.
- 15. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTING THAT RESULT FROM THE CONSTRUCTION BY APPROPRIATE MEANS UNTIL SUCH TIME THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY OWNER.

### **SURVEY NOTE**

THE SITE PLANS WERE DEVELOPED BASED ON DRAWINGS PROVIDED BY THE OWNER AND A TOPOGRAPHICAL SURVEY BY MIDWESTERN CONSULTING DATED 06-12-14. TOPOGRAPHICAL SURVEY UPDATED BY MIDWESTERN CONSULTING ON 07-24-2019. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING STRUCTURES AND VERIFYING QUANTITIES. THE CONTRACTOR IS RESPONSIBLE FOR FINAL LAYOUT AND PROVIDING POSITIVE DRAINAGE.

### **EARTHWORK NOTES**

- 1. ALL NATURAL SOIL LEFT IN PLACE, IN CUT SECTIONS, SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY OF THE MATERIAL AS DETERMINED BY THE MODIFIED PROCTOR TO A MINIMUM DEPTH OF 12 INCHES.
- 2. THE LIMIT OF EARTH DISTURBANCE SHALL BE THE SLOPE STAKE LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 3. ALL SLOPES SHALL BE CLASS A SLOPES.
- 4. AREAS DISTURBED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE RESTORED AS SPECIFIED IN THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN, RESTORATION PLAN OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR AREAS DISTURBED OUTSIDE THE SLOPE STAKE LINE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE GRADING LIMITS, INCLUDING EXISTING FENCING, LAWN, TREES, SHRUBBERY, AND SIDEWALKS.

### **EARTH EXCAVATION NOTES**

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY STORAGE AREAS FOR EXCAVATED MATERIAL WHICH MAY BE USED AS EMBANKMENT MATERIAL IN OTHER AREAS IF IT IS SUITABLE MATERIAL AS DETERMINED BY THE ENGINEER, ANY EXTRA HANDLING OF EXCAVATED MATERIAL IS CONSIDERED INCLUDED IN THESE PAY ITEMS.
- 2. EXCAVATION DROP-OFFS GREATER THAN 8 INCHES SHALL BE PROTECTED BY 4 FT TALL ORANGE PLASTIC SAFETY FENCE (SNOW FENCE) SECURELY ATTACHED TO GROUND DRIVEN STAKES WHEN LEFT OVERNIGHT. SAFETY FENCING SHALL BE MAINTAINED UNTIL AREA IS WITHIN 8 INCHES OF ADJACENT GRADE. PAYMENT FOR THIS WORK IS INCLUDED IN TRAFFIC CONTROL LUMP SUM UNIT PRICE.

### **SOIL BORING NOTES**

1. THE SOIL BORINGS LOGS DEPICT POINT LOCATIONS AND DO NOT INFER THAT THE SURFACE CONDITIONS ARE THE SAME IN OTHER AREAS. BORING LOCATIONS ARE SHOWN ON THE PLANS, SOIL BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS.

### VARNING!

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

### **SITE GRADING NOTES**

COMPLICATIONS.

- 1. PROPOSED ELEVATIONS ARE SHOWN WHERE SIGNIFICANT GRADE CHANGES ARE ANTICIPATED. IF PROPOSED GRADES ARE NOT SHOWN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE WITH MIN. SLOPE OF 1.0%. LONGITUDINAL SLOPE ALONG GUTTER LINES SHALL BE 0.5% MIN.
- 2. PRIOR TO INSTALLING ANY PAVEMENT LAYERS, THE CONTRACTOR SHALL REVIEW THE PROPOSED SITE GRADES WITH THE ENGINEER TO IDENTIFY AND RECTIFY ANY
- 3. PROPOSED SIDEWALKS SHALL HAVE MIN. 1.0% AND MAX. 2.0% CROSS SLOPE.
- 4. CONTRACTOR SHALL ADJUST ALL UTILITY RIMS LOCATED WITHIN THE WORK LIMITS AS NECESSARY TO BE FLUSH WITH THE PROPOSED FINISHED SURFACE. THIS INCLUDES ALL STORM MANHOLES, CATCH BASINS, CLEANOUTS, SANITARY MANHOLES AND CLEANOUTS, WATER MAIN MANHOLES, GATE VALVES, AND BOXES OR ANY OTHER UTILITY RIMS OR
- 5. WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT DESIGNATED TO REMAIN, MATCH ELEVATIONS UNLESS INDICATED OTHERWISE.
- 6. ADJUST GUTTER PAN FROM SPILL IN TO SPILL OUT AS REQUIRED TO ACHIEVE POSITIVE
- 7. ADJUST ELEVATION OF CURB REPAIRS AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE.
- 8. TAPER CURB HEIGHT TO 0" IN 10' WHEN ABUTTING TO EX. PAVEMENT WITHOUT CURB.

### **GENERAL PAVING NOTES**

- 1. NEW PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS-SECTION INDICATED ON THE PLANS.
- 2. MATCH EXISTING ELEVATIONS WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENTS OR OTHER FIXED OBJECTS.
- 3. CONTRACTOR SHALL MATCH EXISTING STRIPING PATTERNS UNLESS OTHERWISE REQUIRED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL DOCUMENT EXISTING STRIPING PATTERN PRIOR TO REMOVAL OF ANY PAVEMENT.
- 4. CONTRACTOR IS RESPONSIBLE FOR LAYOUT TO PROVIDE POSITIVE SITE DRAINAGE. WATER PONDING AND BIRD BATHS SHALL BE CORRECTED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- 5. NEW AGGREGATE BASE REQUIRED SHALL BE MDOT 21AA CRUSHED LIMESTONE MATERIAL
- 6. SUBGRADE SOIL FOUND TO BE UNSUITABLE SHALL BE RECONDITIONED OR REPLACED AS DIRECTED BY THE OWNER, INCLUDING THE NECESSARY FINE GRADING TO ENSURE THAT MINIMUM SPECIFIED PAVEMENT THICKNESS IS ACHIEVED.

### TRAFFIC CONTROL NOTES

- 1. OBTAIN WRITTEN PERMISSION FROM OWNER'S REPRESENTATIVE WHEN ROADS, SIDEWALKS AND PARKING LOTS NEED TO BE CLOSED PRIOR TO CLOSING ANY PAVED AREA.
- 2. SUBMIT ALL REQUESTS TO OWNER'S REPRESENTATIVE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE ANTICIPATED NEED TO CLOSE ANY PAVED AREA.
- 3. PROVIDE ALTERNATE TRAFFIC ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC ROUTES AS NECESSARY OR REQUIRED BY OWNER'S REPRESENTATIVE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, PLACING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES ACCORDING TO THE LATEST EDITION OF THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."

### **DEMOLITION NOTES**

- 1. SAWCUT FULL DEPTH THE PAVEMENT, SIDEWALK AND CURB DESIGNATED TO BE REMOVED AT THE LIMITS OF WORK SHOWN ON THE PLANS OR MARKED IN THE FIELD.
- 2. REMOVE ONLY THE STRUCTURES AND PAVEMENTS WITHIN THE LIMITS OF WORK AS DETAILED ON THE PLANS AND CROSS SECTIONS. ALL OTHER STRUCTURES AND PAVEMENT SHALL BE PROTECTED AS REQUIRED.
- 3. ALL EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION, UNLESS, OTHERWISE DESIGNATED TO BE REMOVED. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
- 4. CONTRACTOR SHALL DISPOSE OF ALL CONCRETE, ASPHALT, AGGREGATE BASE AND SUBGRADE SPOILS AT LEGAL DISPOSAL SITE. CONTRACTOR SHALL PAY FOR ALL TRUCKING AND DISPOSAL COSTS.

### **CURB REPAIR NOTES**

- 1. SAWCUT THE CURB AREAS DESIGNATED FOR REPAIR AT THE LIMITS MARKED IN THE FIELD BY OWNER'S REPRESENTATIVE.
- 2. REMOVE EXISTING CONCRETE WITHOUT CAUSING DAMAGE OR SPALLING TO ADJACENT SIDEWALK OR CURBS WHICH ARE DESIGNATED TO REMAIN. DAMAGED AREAS SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- 3. DRILL AND EPOXY GROUT TWO (2) #5 (18 INCH LONG EPOXY COATED) DEFORMED BARS A MINIMUM OF 6 INCHES INTO EXISTING CONCRETE CURBS (TWO FACES) WHICH ARE DESIGNATED TO REMAIN.
- 4. MATCH EXISTING CURB GEOMETRY.
- 5. PLACE AND CONSOLIDATE CONCRETE IN THE REPAIR AREA TO MATCH THE ELEVATION OF ADJACENT CURB AND SIDEWALK AREAS TO MAINTAIN POSITIVE DRAINAGE. FINISH CURBS TO MATCH FINISH OF ADJACENT AREAS WHICH ARE DESIGNATED TO REMAIN.
- VOID/HOLES (HONEYCOMB AREAS) ON THE CURB BACK/FACE SHALL BE REPAIRED WITH CEMENT MORTAR PASTE TO THE SATISFACTION OF THE OWNER.

### **CLEANUP AND RESTORATION NOTES**

- 1. CLEAN AND RESTORE ALL DISTURBED AREAS WITH 4 INCHES OF TOPSOIL, HYDROSEED AND HIGH VELOCITY MULCH BLANKETS. DISPOSE OF DEBRIS OFFSITE AT APPROVED DISPOSAL SITE.
- 2. UPON COMPLETION OF WORK, THE ENTIRE SITE SHALL BE CLEARED OF EQUIPMENT, UNUSED MATERIALS, AND RUBBISH AND ANY DISTURBED AREAS RESTORED TO THE SATISFACTION OF THE OWNER.
- 3. FINAL PAYMENT WILL NOT BE MADE UNTIL THE SITE IS CLEARED, RESTORED AND CLEANED PER THE PROJECT SPECIFICATIONS.

### ABBREVIATIONS USED IN DRAWINGS

THE FOLLOWING APPRECIATIONS ARE USED ON THESE PLANS

THE FOLLOWING ABBREVIATIONS ARE USED ON THESE PLANS: AT (RATE OF) AND INCH FOOT NUMBER ASPHALT CONCRETE AMERICANS WITH DISABILITIES ACT (BARRIER FREE ACCESS) AGGREGATE BASE ALTERNATE APPROX. APPROXIMATE/APPROXIMATELY ARCH. ARCHITECT **ASTM** AMERICAN SOCIETY FOR TESTING AND MATERIALS AVG BORING **BOUNDARY BITUMINOUS** BARRIER FREE BANK FULL FLOOD BLDG BUILDING BENCHMARK BOTTOM **BEARING** BSM1 BASEMENT CORE CAPACITY CATCH BASIN **CENTERLINI** 

BRG
BSMT
C
C
CORE
CAP
CAPACITY
CB
CENTL
CF
CHAN.
CI
CJ
CLS
CLS
CMP
CATCH BASIN
CENTERLINE
CF
CUBIC FEET
CHAN.
CHANNEL
CJ
CONTROL JOINT
CLS
CRUSHED LIMESTONE
CL.
CLASS
CMP
CONCRETE MASONRY UNIT
COEF
COLUMNIA

CONCRETE MASONRY LINI COL COLUMN CO CLEAN OUT CONC. CONCRETE CONN. CONNECTION COV. COVER CULV. CULVERT CRB CURB **CUBIC YARD** DIAMETER

DIA.

DIAMETER

DI DUCTILE IRON

DIM. DIMENSION

DEG. DEGREE

DEMO. DEMOLITION

DEPT. DEPARTMENT

DMH DROP MANHOLE

DS DOWNSPOUT

EA EACH

E EAST

EE EACH END

EE EACH END
EG EDGE OF GRAVEL
ELEV. ELEVATION
EM EDGE OF METAL
ENG. ENGINEER
ENT. ENTRANCE
EQUIP. EQUIPMENT
ES END SECTION
EXCAV. EXCAVATE
EX. EXISTING
EXPANSION

EX. EXISTING
EXPN EXPANSION
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDN FOUNDATION
FDR FULL DEPTH RECLAMATION
FF FINISH FLOOR

FG FINISH GRADE
FURN. FURNISH
FP FLOOD PLAIN
FT FEET/FOOT
FTG FOOTING
ELEV. ELEVATION
EQUIP. EQUIPMENT
GAL. GALLON
GEN. GENERAL

GEN.
GENERAL
GU
GUTTER
GVA
GATE VALVE
GVL
GRAVEL
HD
HEAVY DUTY
HDPE
HIGH DENSITY POLYTHYLENE
HP
HIGH POINT
HGL
HMA
HOT MIX ASPHALT

HMA HOT MIX ASPHALT
HORIZ. HORIZONTAL
HYD HYDRANT
INT INSTALL
LD LIGHT DUTY
LF LINEAR FEET
LP LOW POINT

MAX. MAXIMUM
ME MATCH EXISTING
MDOT MICHIGAN DEPARTMENT OF TRANSPORTATION

MDOT MICHIGAN DEPARTMENT OF TRANSPORTA
MH MANHOLE
MIN. MINIMUM

MH MANHOLE
MIN. MINIMUM
N NORTH
NIC NOT IN CONTRACT

NO NUMBER
NFV NOT FIELD VERIFIED
NTS NOT TO SCALE
OC ON CENTER
OD OUTSIDE DIAMETER
PCC PORTLAND CEMENT CONCRETE

PCC PORTLAND CEMENT CONCRETE
PVC POLYVINYL CHLORIDE
PR PROPOSED
RCP REINFORCED CONCRETE PIPE
RY REAR YARD
S SOUTH
SAN SANITARY SEWER

SBC STABILIZED BASE COURSE
SESC SOIL EROSION AND SEDIMENT CONTROL
SF SQUARE FEET
SG SUBGRADE

SUBGRADE

STORM SEWER

SQUARE YARD

TOP OF HMA PAVEMEN

TYPICAL

TOP OF HMA PAVEMENT ELEVATION
TOP OF PROPOSED CURB
RS TEMPORARY EARTH RETENTION SYSTEM
TEST PIT

**BOTTOM OF WALL** 

TW TOP OF SIDEWALK
VB VAPOR BARRIER
VCP VITRIFIED CLAY PIPE
VERT. VERTICAL
VIF VERIFY IN FIELD
VLT VAULT
VOL VOLUME
W WEST

WM WATER MAIN
TOW TOP OF WALL
WTR WATER
WWF WELDED WIRE FABRIC

BOW

### **DEFINITIONS USED IN DRAWINGS**

W HURON PROPERTIES

THE FOLLOWING DEFINITIONS ARE USED ON THESE PLANS:

ENGINEER SME
CITY ANN ARBOR
COUNTY WASHTENAW COUNTY

OWNER

SME www.sme-usa.com

Orientation Scale

Project

WEST HURON
PROPERTIES, LLC
PAVEMENT
IMPROVEMENTS



**Project Location** 

416, 410 & 404 W. HURON ST ANN ARBOR, MI 48103

Sheet Nam

GENERAL PROJECT NOTES

Engineer's Seal



 REV
 ISSUED FOR
 DATE
 BY

 01
 SITE PLAN SUBMITTAL
 09/26/2019
 KMA

 02
 SITE PLAN SUBMITTAL
 05/19/2020
 JAS

 03
 SITE PLAN PER CITY COMMENTS
 07/22/2020
 JAS

 04
 SITE PLAN WCWRC SUBMITTAL
 10/08/2020
 HJC

 05
 SITE PLAN PER CITY COMMENTS
 10/26/2020
 HJC

 06
 SITE PLAN PER CITY COMMENTS
 11/11/2020
 HJC

08-26-2019

SME Project No. **081266.00** 

JAS
Designer:

CADD:

**Project Manager:** 

Checked By:

Sheet No.

C-200

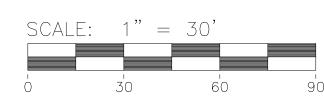
DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" ANI
WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE
MEDIA

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CONSENT OF SME
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HJC

that they are located as accurately as possible from the information available.





EXIST. CONTOUR EXIST. SPOT ELEVATION ×836.2 EXIST. UTILITY POLE -->- U.P. GUY WIRE EXIST. OVERHEAD UTILITY LINE EXIST. LIGHT POLE EXIST. GAS LINE EXIST. WATER MAIN EXIST. HYDRANT EXIST. STORM SEWER EXIST. CATCH BASIN OR INLET EXIST. SANITARY SEWER SIGN GAS METER POST SINGLE TREE FENCE \_//\_\_//

TAG#	DBH	COMMON NA ME	GENUS/SPECIES	STEMS	SCORE	LM	INV	RM
1583	22"	Honey Locust	Gleditsia triacanthos		21	Х		
1584	13"	Red Elm	Ulmus rubra					
1585	16"	Tree-of-heaven	Ailanthus altissima				Х	
1586	11"	Box Elder	Acer negundo	twin				
1587	12"	Black Walnut	Juglans nigra	twin				
1588	12"	Box Elder	Acer negundo					
1592	12"	Tree-of-heaven	Ailanthus altissima				Х	
1593	10"	Black Walnut	Juglans nigra					
1594	11"	Box Elder	Acer negundo					
1597	8"	Siberian Elm	Ulmus pumila				Х	
1598	8"	Box Elder	Acer negundo					
1599	10"	Tree-of-heaven	Ailanthus altissima				Χ	
1600	10"	Siberian Elm	Ulmus pumila	twin			Χ	
1601	10"	Box Elder	Acer negundo					
1602	9"	Box Elder	Acer negundo					
1603	10"	Siberian Elm	Ulmus pumila				Χ	
1604	12"	Box Elder	Acer negundo					
1605	10"	Box Elder	Acer negundo					
1606	10"	Box Elder	Acer negundo					
1607	10"	Box Elder	Acer negundo					
1608	10"	Tree-of-heaven	Ailanthus altissima				Χ	
1609	10"	Tree-of-heaven	Ailanthus altissima				Χ	
1610	16"	Tree-of-heaven	Ailanthus altissima				Х	
1611	14"	Cottonwood	Populus deltoides					
1612	18"	Cottonwood	Populus deltoides					
1613	8"	American Elm	Ulmus americana					
1614	22"	Black Walnut	Juglans nigra		15	Х		
1615	13"	Box Elder	Acer negundo					
1616	13"	Box Elder	Acer negundo					
1617	20"	Black Walnut	Juglans nigra		19	Х		
1618	16"	Black Walnut	Juglans nigra					
1619	15"	Black Locust	Robinia pseudoacacia				Χ	
1620	24"	Box Elder	Acer negundo		Dead			
1621	13"	Tree-of-heaven	Ailanthus altissima				Χ	
1622	22"	Norway Maple	Acer platanoides				Χ	
1623	17"	Tree-of-heaven	Ailanthus altissima	twin			Χ	X
1624	17"	Black Walnut	Juglans nigra					
1625	12"	Black Walnut	Juglans nigra					
1627	9"	Box Elder	Acer negundo					
1628	24"	Black Walnut	Juglans nigra		20	Х		
1629	13"	Box Elder	Acer negundo					
1630	13"	N. White-cedar	Thuja occidentalis					
1631	8"	N. White-cedar	Thuja occidentalis	twin				
1632	6"	Catalpa	Catalpa speciosa	twin				Х
1633	2"	Cherry	Prunis serotina					
1634	2"	Cherry	Prunis serotina					
1635	2"	Cherry	Prunis serotina					
1636	3"	Bradford Pear	Pyrus calleryana					
1637	3"	Spruce	Picea abies					
1638	3"	Spruce	Picea abies					
4.000			<b>.</b> "	1		ı !		1

# LEGEND

FOUND IRON PIPE FOUND IRON ROD

CONTROL PT.

TREE LIST

1583   22"   Honey Locust   Gleditsia triacanthos   21   X	TAG#		COMMON NA ME	GENUS/SPECIES	STEMS	SCORE	LM	INV	RM
1585   16"   Tree-of-heaven   Ailanthus altissima   X   1586   11"   Box Elder   Acer negundo   twin   1588   12"   Black Walnut   Juglans nigra   twin   1598   12"   Tree-of-heaven   Ailanthus altissima   X   1593   10"   Black Walnut   Juglans nigra   1593   10"   Black Walnut   Juglans nigra   1594   11"   Box Elder   Acer negundo   1597   8"   Siberian Elm   Ulmus pumila   X   1598   8"   Box Elder   Acer negundo   1599   10"   Tree-of-heaven   Ailanthus altissima   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1601   10"   Box Elder   Acer negundo   1602   9"   Box Elder   Acer negundo   1602   9"   Box Elder   Acer negundo   1603   10"   Siberian Elm   Ulmus pumila   twin   X   1604   12"   Box Elder   Acer negundo   1605   10"   Box Elder   Acer negundo   1606   10"   Box Elder   Acer negundo   1606   10"   Box Elder   Acer negundo   1606   10"   Box Elder   Acer negundo   1607   10"   Box Elder   Acer negundo   1608   10"   Tree-of-heaven   Ailanthus altissima   X   1610   16"   Tree-of-heaven   Ailanthus altissima   X   1611   14"   Cottonwood   Populus deltoides   1611   14"   Cottonwood   Populus deltoides   1613   8"   American Elm   Ulmus americana   1614   22"   Black Walnut   Juglans nigra   15   X   1616   13"   Box Elder   Acer negundo   1617   70"   Box Elder   Acer negundo   1518   15"   Box Elder   Acer negundo   1519   X   1518	1583	22"	Honey Locust	Gleditsia triacanthos		21	Х		
1586   11"   Box Elder   Acer negundo   twin   1587   12"   Back Walnut   Juglans nigra   twin   1588   12"   Box Elder   Acer negundo   1592   12"   Tree-of-heaven   Allanthus altissima   X   1593   10"   Back Walnut   Juglans nigra	1584	13"	Red Elm	Ulmus rubra					
1587   12"   Black Walnut   Juglans nigra   twin	1585	16"	Tree-of-heaven	Ailanthus altissima				Х	
1588   12"   Box Elder   Acer negundo   X   1592   12"   Tree-of-heaven   Ailanthus altissima   X   1593   10"   Black Walnut   Juglans nigra   1594   11"   Box Elder   Acer negundo   X   1594   11"   Box Elder   Acer negundo   X   1597   8"   Siberian Elm   Ulmus pumila   X   1598   8"   Box Elder   Acer negundo   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1600   10"   Box Elder   Acer negundo   M   1601   10"   Box Elder   Acer negundo   M   1601   10"   Box Elder   Acer negundo   M   1604   12"   Box Elder   Acer negundo   M   1604   12"   Box Elder   Acer negundo   M   1604   12"   Box Elder   Acer negundo   M   1606   10"   Box Elder   Acer negundo   M   1609   10"   Tree-of-heaven   Ailanthus altissima   X   1610   16"   Tree-of-heaven   Ailanthus altissima   X   1611   14"   Cottonwood   Populus deltoides   M   1611   14"   Cottonwood   Populus deltoides   M   1611   13"   Box Elder   Acer negundo   M   1611   15"   Black Walnut   Juglans nigra   15   X   1612   13"   Tree-of-heaven   Ailanthus altissima   X   1612   13"   Tree-of-heaven   Ailanthus altissima   M   X   1613   13"   Tree-of-heaven   Ailanthus altissima   M   X   1613   13"   Tree-of-heaven   Arer negundo   Dead   M   1612   13"   Tree-of-heaven   Ailanthus al	1586	11"	Box Elder	Acer negundo	twin				
1592   12"   Tree-of-heaven   Ailanthus altissima   X   1593   10"   Black Walnut   Juglans nigra	1587	12"	Black Walnut	Juglans nigra	twin				
1593   10"   Black Walnut   Juglans nigra   1594   11"   80x Elder   Acer negundo   1597   8"   Siberian Elm   Ulmus pumila   X   1598   8"   80x Elder   Acer negundo   1599   10"   Tree-of-heaven   Alianthus altissima   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1600   10"   80x Elder   Acer negundo   1601   10"   80x Elder   Acer negundo   1602   9"   Box Elder   Acer negundo   1603   10"   Siberian Elm   Ulmus pumila   X   1604   12"   Box Elder   Acer negundo   1605   10"   Box Elder   Acer negundo   1605   10"   Box Elder   Acer negundo   1606   10"   Box Elder   Acer negundo   1606   10"   Box Elder   Acer negundo   1608   10"   Tree-of-heaven   Alianthus altissima   X   1609   10"   Tree-of-heaven   Alianthus altissima   X   1610   16"   Tree-of-heaven   Alianthus altissima   X   1611   14"   Cottonwood   Populus deltoides   1612   18"   Cottonwood   Populus deltoides   1613   8"   American Elm   Ulmus americana   1614   22"   Black Walnut   Juglans nigra   15   X   1615   13"   Box Elder   Acer negundo   1616   13"   Box Elder   Acer negundo   1617   20"   Black Walnut   Juglans nigra   19   X   1618   16"   Black Uoust   Acer negundo   1619   15"   Black Locust   Robinia pseudoacacia   X   1622   22"   Norway Maple   Acer negundo   Dead   1621   13"   Tree-of-heaven   Alianthus altissima   X   1622   22"   Norway Maple   Acer negundo   Dead   1621   13"   Tree-of-heaven   Alianthus altissima   X   1622   22"   Norway Maple   Acer negundo   Dead   1623   17"   Tree-of-heaven   Alianthus altissima   X   1624   17"   Black Walnut   Juglans nigra   19   X   1623   17"   Tree-of-heaven   Alianthus altissima   X   1624   17"   Black Walnut   Juglans nigra   1633   2"   Cherry   Prunis serotina   1633   2"   Cherry   Prunis serotina   1633   2"   Cherry   Prunis serotina   1633   3"   Spruce   Picea ables   1639   3"   Bradford	1588	12"	Box Elder	Acer negundo					
1594   11"   Box Elder   Acer negundo   X   1597   8"   Siberian Elm   Ulmus pumila   X   X   1598   8"   Box Elder   Acer negundo   X   1599   10"   Tree-of-heaven   Ailanthus altissima   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1601   10"   Box Elder   Acer negundo   M   1601   10"   Box Elder   Acer negundo   M   1603   10"   Siberian Elm   Ulmus pumila   X   1604   12"   Box Elder   Acer negundo   M   1604   12"   Box Elder   Acer negundo   M   1604   12"   Box Elder   Acer negundo   M   1606   10"   Box Elder   Acer negundo   M   1609   10"   Tree-of-heaven   Ailanthus altissima   X   1610   16"   Tree-of-heaven   Ailanthus altissima   X   1611   14"   Cottonwood   Populus deltoides   M   1611   14"   Cottonwood   Populus deltoides   M   1614   22"   Black Walnut   Juglans nigra   15   X   1615   13"   Box Elder   Acer negundo   M   1616   15"   Box Elder   Acer negundo   M   1616   15"   Black Walnut   Juglans nigra   15   X   1618   16"   Black Walnut   Juglans nigra   19   X   1618   16"   Black Walnut   Juglans nigra   19   X   1618   16"   Black Walnut   Juglans nigra   19   X   1622   22"   Norway Maple   Acer platanoides   X   1622   22"   Norway Maple   Acer platanoides   X   1623   17"   Tree-of-heaven   Ailanthus altissima   Tree-of-heaven   Ailanthus altissima   X   1624   17"   Black Walnut   Juglans nigra   19   X   1625   12"   Black Walnut   Juglans nigra   19   X   1626   12"   Black Walnut   Juglans nigra   19   X   1627   9"   Box Elder   Acer negundo   Dead   M   1628   24"   Black Walnut   Juglans nigra   1630   13"   N. White-cedar   Thuja occidentalis   twin   X   X   1633   2"   Cherry   Prunis serotina   1633   2"   Cherry   Prunis serotina   1633   3"   Spruce   Picea ables   1639   3"   Bradford Pear   Pyrus calleryana   1639   3"   Bradford Pear   Pyrus calleryana   1639   3"   Bradford Pear   Pyrus calleryana   1639   3"   Bradfor	1592	12"	Tree-of-heaven	Ailanthus altissima				Χ	
1594   11"   Box Elder   Acer negundo   X     1598   8"   Siberian Elm   Ulmus pumila   X     1598   8"   Box Elder   Acer negundo   X     1599   10"   Tree-of-heaven   Ailanthus altissima   X     1600   10"   Siberian Elm   Ulmus pumila   twin   X     1601   10"   Box Elder   Acer negundo   Marcian   M	1593	10"	Black Walnut	Juglans nigra					
1598 8"   Box Elder   Acer negundo   X   1599 10"   Tree-of-heaven   Ailanthus altissima   X   1600 10"   Siberian Elm   Ulmus pumila   twin   X   1601 10"   Box Elder   Acer negundo	1594	11"	Box Elder	Acer negundo					
1599   10"   Tree-of-heaven   Ailanthus altissima   X   1600   10"   Siberian Elm   Ulmus pumila   twin   X   1601   10"   Box Elder   Acer negundo	1597	8"	Siberian Elm	Ulmus pumila				Х	
1600   10"   Siberian Elm	1598	8"	Box Elder	Acer negundo					
1601   10"   Box Elder   Acer negundo	1599	10"	Tree-of-heaven	Ailanthus altissima				Χ	
1602   9"   Box Elder   Acer negundo	1600	10"	Siberian Elm	Ulmus pumila	twin			Χ	
1603	1601	10"	Box Elder						
1603   10"   Siberian Elm   Ulmus pumila   X   1604   12"   Box Elder   Acer negundo	1602	9"	Box Elder	Acer negundo					
1604   12"   Box Elder   Acer negundo	1603	10"	Siberian Elm					Х	
1606	1604	12"	Box Elder						
1606	1605	10"	Box Elder	Acer negundo					
1607         10"         Box Elder         Acer negundo           1608         10"         Tree-of-heaven         Ailanthus altissima         X           1609         10"         Tree-of-heaven         Ailanthus altissima         X           1610         16"         Tree-of-heaven         Ailanthus altissima         X           1611         14"         Cottonwood         Populus deltoides           1612         18"         Cottonwood         Populus deltoides           1613         8"         American Elm         Ulmus americana           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         1616         15"         Box Elder         Acer negundo         1617         20"         Black Walnut         Juglans nigra         19         X         1618         16"         Black Walnut         Juglans nigra         19         X         1620         24"         Box Elder         Acer negundo         Dead         X         1620         24"         Box Elder         Acer platanoides         X         X         1622         22"         Norway Maple         Acer platanoides         X         X         1623	1606	10"	Box Elder	_					
1608	1607	10"	Box Elder						
1610         16"         Tree-of-heaven         Ailanthus altissima         X           1611         14"         Cottonwood         Populus deltoides           1612         18"         Cottonwood         Populus deltoides           1613         8"         American Elm         Ulmus americana           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         1616         13"         Box Elder         Acer negundo         1616         1617         20"         Black Walnut         Juglans nigra         19         X         1618         16"         Black Walnut         Juglans nigra         19         X         1618         16"         Black Uccust         Robinia pseudoacacia         X         X         1620         24"         Box Elder         Acer negundo         Dead         X         1621         13"         Tree-of-heaven         Ailanthus altissima         X         X         X         X         1622         22"         Norway Maple         Acer platanoides         X         X         X         X         1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X         X	1608	10"	Tree-of-heaven					Χ	
1610         16"         Tree-of-heaven         Ailanthus altissima         X           1611         14"         Cottonwood         Populus deltoides           1612         18"         Cottonwood         Populus deltoides           1613         8"         American Elm         Ulmus americana           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         1616         13"         Box Elder         Acer negundo         1616         1617         20"         Black Walnut         Juglans nigra         19         X         1618         16"         Black Walnut         Juglans nigra         19         X         1618         16"         Black Uccust         Robinia pseudoacacia         X         X         1620         24"         Box Elder         Acer negundo         Dead         X         1621         13"         Tree-of-heaven         Ailanthus altissima         X         X         X         X         1622         22"         Norway Maple         Acer platanoides         X         X         X         X         1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X         X	1609	10"	Tree-of-heaven	Ailanthus altissima				Χ	
1611         14"         Cottonwood         Populus deltoides           1612         18"         Cottonwood         Populus deltoides           1613         8"         American Elm         Ulmus americana           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         Box Elder         Acer negundo         Box Elder         Box Elder         Acer negundo         Box Elder         Acer negundo         Box Elder         Acer negundo         X         Box Elder         Acer negundo         X         Box Elder         Acer negundo         Dead         X         Box Elder         Acer negundo         Dead         Acer negundo         Dead         Box Elder         Acer negundo         Dead         Acer negundo         Dead         Acer negundo         Dead         Acer negundo         X         Acer negundo         X         X         Acer negundo         X         X         X         X         X         Acer negundo         Acer negundo         Acer negundo         Back Walnut negundo         Back Walnut negundo         Back Walnut negundo         Back Walnut negundo         Acer negundo         Back Walnut negundo         Back Walnut negundo         Back Planta negundo         Back								Х	
1612         18"         Cottonwood         Populus deltoides           1613         8"         American Elm         Ulmus americana           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         10         15         X           1616         13"         Box Elder         Acer negundo         19         X         X           1617         20"         Black Walnut         Juglans nigra         19         X         X         1618         16"         Black Locust         Robinia pseudoacacia         X         X         X         1620         24"         Box Elder         Acer negundo         Dead         Dead         1620         24"         Box Elder         Acer negundo         Dead         Dead         1621         13"         Tree-of-heaven         Ailanthus altissima         X         X         1622         22"         Norway Maple         Acer platanoides         X         X         1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X         X         X         1624         17"         Black Walnut         Juglans nigra         Unit of the planting the planting the planting th									
1613         8"         American Elm         Ulmus americana         15         X           1614         22"         Black Walnut         Juglans nigra         15         X           1615         13"         Box Elder         Acer negundo         Acer negundo         Acer negundo         Box Elder         Acer negundo         Box Elder         Acer negundo         Box Elder         Acer negundo         Dead         Acer negundo         Acer negundo         Dead         Acer negundo		18"							
1615         13"         Box Elder         Acer negundo           1616         13"         Box Elder         Acer negundo           1617         20"         Black Walnut         Juglans nigra         19         X           1618         16"         Black Walnut         Juglans nigra         X           1619         15"         Black Locust         Robinia pseudoacacia         X           1620         24"         Box Elder         Acer negundo         Dead           1621         13"         Tree-of-heaven         Ailanthus altissima         X           1622         22"         Norway Maple         Acer platanoides         X           1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X           1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X           1624         17"         Black Walnut         Juglans nigra         Win         X           1625         12"         Black Walnut         Juglans nigra         20         X           1627         9"         Box Elder         Acer negundo         Acer negundo         X           1628         24"         Black Walnut	1613		American Elm						
1615         13"         Box Elder         Acer negundo           1616         13"         Box Elder         Acer negundo           1617         20"         Black Walnut         Juglans nigra         19         X           1618         16"         Black Walnut         Juglans nigra         X           1619         15"         Black Locust         Robinia pseudoacacia         X           1620         24"         Box Elder         Acer negundo         Dead           1621         13"         Tree-of-heaven         Ailanthus altissima         X           1622         22"         Norway Maple         Acer platanoides         X           1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X         X           1623         17"         Tree-of-heaven         Ailanthus altissima         twin         X         X           1624         17"         Black Walnut         Juglans nigra         Win         X         X           1625         12"         Black Walnut         Juglans nigra         20         X           1627         9"         Box Elder         Acer negundo         X           1629         13"	1614	22"	Black Walnut	Juglans nigra		15	Х		
161613"Box ElderAcer negundo161720"Black WalnutJuglans nigra19X161816"Black WalnutJuglans nigra161915"Black LocustRobinia pseudoacaciaX162024"Box ElderAcer negundoDead162113"Tree-of-heavenAilanthus altissimaX162222"Norway MapleAcer platanoidesX162317"Tree-of-heavenAilanthus altissimatwinX162417"Black WalnutJuglans nigra162512"Black WalnutJuglans nigra16279"Box ElderAcer negundo162824"Black WalnutJuglans nigra20X163913"N. White-cedarThuja occidentalis16318"N. White-cedarThuja occidentalistwin16332"CherryPrunis serotina16342"CherryPrunis serotina16352"CherryPrunis serotina16363"Bradford PearPyrus calleryana16393"Bradford PearPyrus calleryana	1615	13"	Box Elder						
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1619 15" Black Locust Robinia pseudoacacia X 1620 24" Box Elder Acer negundo Dead 1621 13" Tree-of-heaven Ailanthus altissima X 1622 22" Norway Maple Acer platanoides X 1623 17" Tree-of-heaven Ailanthus altissima twin X X 1624 17" Black Walnut Juglans nigra 1625 12" Black Walnut Juglans nigra 1627 9" Box Elder Acer negundo 1628 24" Black Walnut Juglans nigra 20 X 1629 13" Box Elder Acer negundo 1630 13" N. White-cedar Thuja occidentalis 1631 8" N. White-cedar Thuja occidentalis twin 1632 6" Catalpa Catalpa speciosa twin X 1633 2" Cherry Prunis serotina 1634 2" Cherry Prunis serotina 1635 2" Cherry Prunis serotina 1636 3" Bradford Pear Pyrus calleryana 1637 3" Spruce Picea abies 1639 3" Bradford Pear Pyrus calleryana 1639 3" Bradford Pear Pyrus calleryana 1639 3" Bradford Pear Pyrus calleryana	1617	20"	Black Walnut	Juglans nigra		19	Х		
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1639 3" Bradford Pear Pyrus calleryana	$\overline{}$		·						
		3"	<u> </u>						
	1640	3"	Bradford Pear						

1406

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Taken from Absolute Title Commitment #76237, Effective Date May 27, 2014. Commencing at southwest corner of Lot 2, Sipley's Subdivision in the City of Ann Arbor as recorded in Liber 2 of Plats, Page 24, Washtenaw County Records, Washtenaw County, Michigan; thence easterly along the north line of Huron Street 14.0 feet for a Place of Beginning; thence northerly deflecting 90° to the left 110.0 feet; thence westerly deflecting 90° to the left 52.56 feet; thence along the west line of Lot 13, said Sipley's Subdivision deflecting 107°08' to the thence deflecting 90° to the right 49.0 feet; thence northerly deflecting 90°18' to the left 34.51 feet; thence deflecting 20°53' to the right 48,28 feet; thence deflecting 12°55' to the right 29.0 feet; thence deflecting 30°57' to the left 59.0 feet; thence deflecting 95°24" to the right 20.32 feet; thence southerly along the west line of Ann Arbor Railroad Company lands along the arc thence westerly deflecting 86°49' to the right 12.88 feet; thence along the west line of Ann Arbor Railroad Company lands deflecting 96°24° to thence along the north line of Huron street, deflecting 96°34' to the right 184.98 feet to SUBJECT TO:

4. Release of Right of Way for Allen's Creek Drain, as recorded in Liber 525, Page 595, and Liber 526, Page 1, Washtenaw County Records. 5. Right of Way for sewers, in favor of The City of Ann Arbor, as recorded in Liber 299, Page 130, Washtenaw County Records.

right 270.63 feet;

194.09 feet;

the left 298.57 feet;

Ann Arbor, Michigan.

6. Right of Way Agreement with The City of Ann Arbor, as recorded in Liber 1408, Pages 883 and 887, Washtenaw County Records.

of a circular curve concave to the east, radius 1950.08 feet; subtended by a chord

deflecting 67°56' to the right from the extension of the last described course

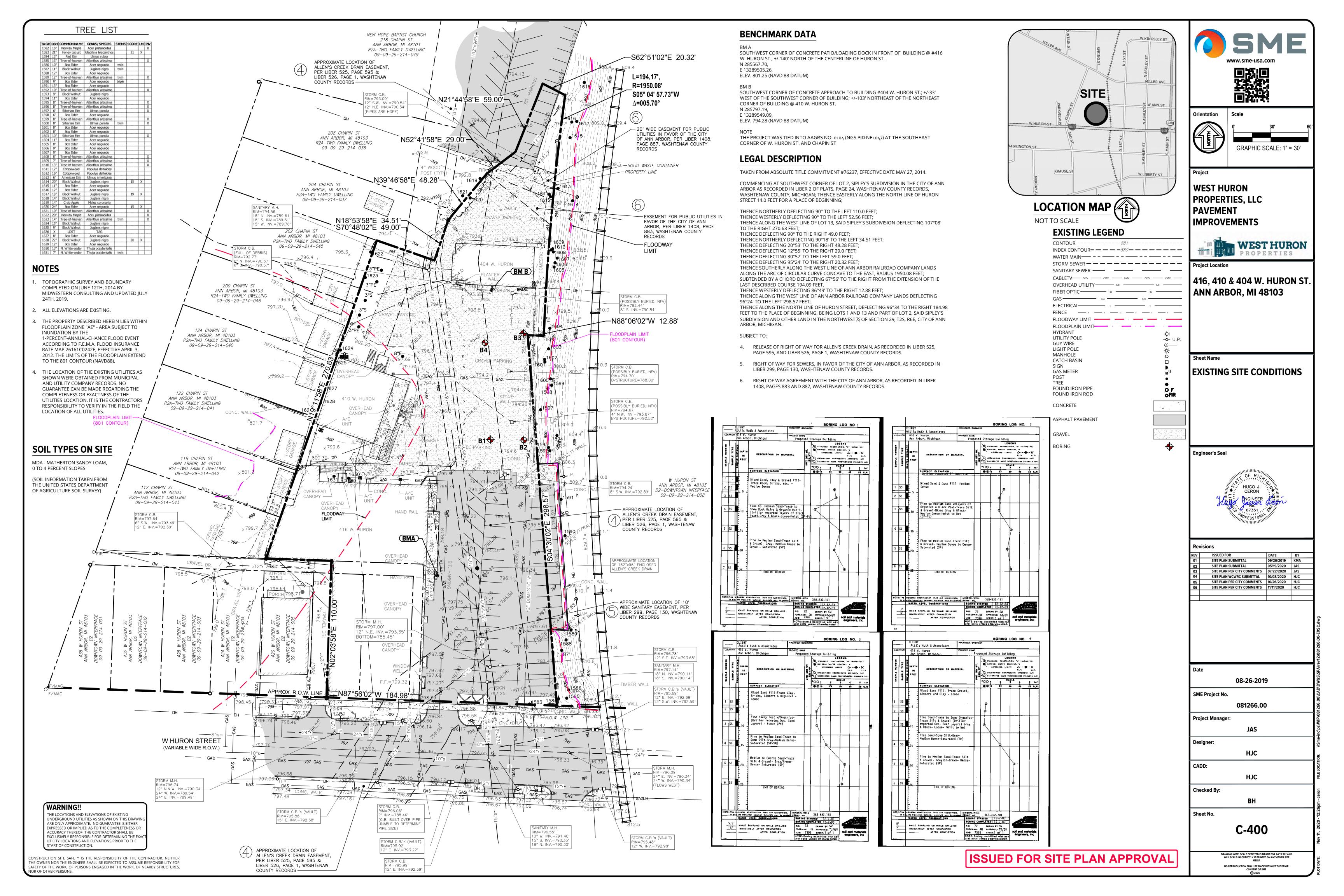
the Place of Beginning, being Lots 1 and 13 and part of Lot 2, said Sipley's

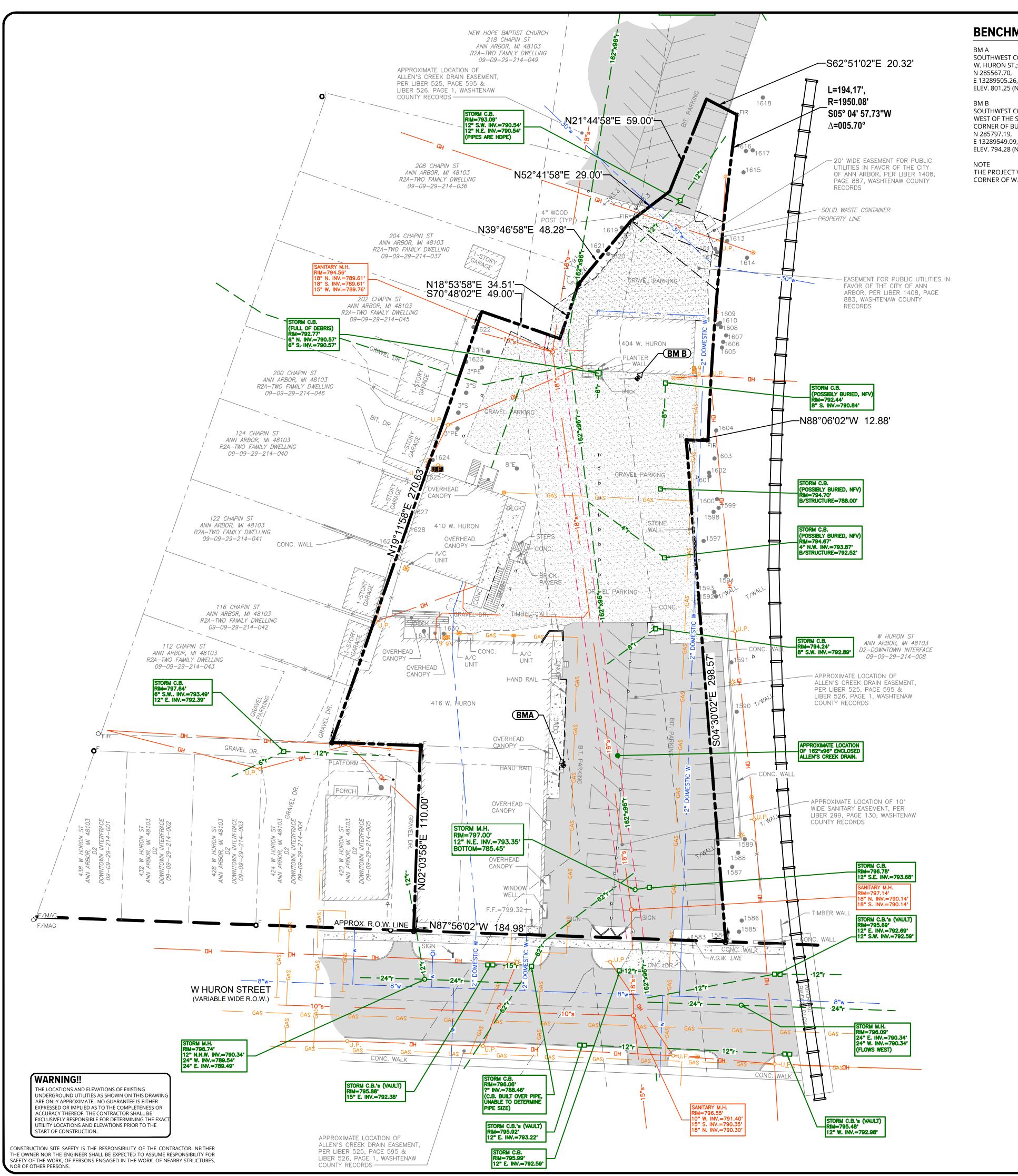
Subdivision and other land in the Northwest ¼ of Section 29, T2S, R6E, City of

LEGAL DESCRIPTION

NOTES

1. THE PROPERTY DESCRIBED HEREIN LIES WITHIN FLOODPLAIN ZONE "AE" - AREA SUBJECT TO INUNDATION BY THE 1-PERCENT-ANNUAL-CHANCE FLOOD EVENT ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP 26161C0242E, EFFECTIVE APRIL 3, 2012. THE LIMITS OF THE FLOODPLAIN EXTEND TO THE 801 CONTOUR (NAVD88).





### **BENCHMARK DATA**

SOUTHWEST CORNER OF CONCRETE PATIO/LOADING DOCK IN FRONT OF BUILDING @ #416 W. HURON ST.; +/-140' NORTH OF THE CENTERLINE OF HURON ST. N 285567.70,

ELEV. 801.25 (NAVD 88 DATUM)

SOUTHWEST CORNER OF CONCRETE APPROACH TO BUILDING #404 W. HURON ST.; +/-33' WEST OF THE SOUTHWEST CORNER OF BUILDING; +/-103' NORTHEAST OF THE NORTHEAST CORNER OF BUILDING @ 410 W. HURON ST. N 285797.19,

E 13289549.09, ELEV. 794.28 (NAVD 88 DATUM)

THE PROJECT WAS TIED INTO AAGRS NO. 0104 (NGS PID NE1047) AT THE SOUTHEAST CORNER OF W. HURON ST. AND CHAPIN ST

### **EXISTING LEGEND**

CONTOUR -------881-----STORM SEWER — — — — — — — — — — SANITARY SEWER — — — — — — —

FLOODWAY LIMIT — — — — — — — — HYDRANT UTILITY POLE -о́- U.Р. **GUY WIRE** LIGHT POLE MANHOLE **CATCH BASIN** SIGN **GAS METER** POST TREE FOUND IRON PIPE

FOUND IRON ROD CONCRETE

ASPHALT PAVEMENT

GRAVEL

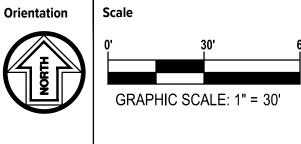
**TELEPHONE** 550 S MAPLE ROAD ANN ARBOR, MI 48103 PH: 734.996.5322

ELECTRICAL DETROIT EDISON 8001 HAGGERTY RD. BELLEVILLE, MI 48111 PH: 734.397.4321

**DTE GAS COMPANY** ONE ENERGY PLAZA WCB-1710 DETROIT, MI 48226 PH: 313.235-1001

WATER & SEWER CITY OF ANN ARBOR 301 E. HURON STREET ANN ARBOR, MI 48107 PH. 734.794.6410





**WEST HURON** PROPERTIES, LLC PAVEMENT **IMPROVEMENTS** 



**Project Location** 

416, 410 & 404 W. HURON ST. ANN ARBOR, MI 48103

**Sheet Name** 

**EXISTING UTILITIES PLAN** 

Engineer's Seal



ISSUED FOR SITE PLAN SUBMITTAL 09/26/2019 KMA 05/19/2020 JAS SITE PLAN SUBMITTAL SITE PLAN WCWRC SUBMITTAL 10/08/2020 HJC SITE PLAN PER CITY COMMENTS 10/26/2020 HJC SITE PLAN PER CITY COMMENTS 11/11/2020 HJC

08-26-2019

SME Project No.

**Project Manager:** 

081266.00

HJC

HJC

Designer:

CADD:

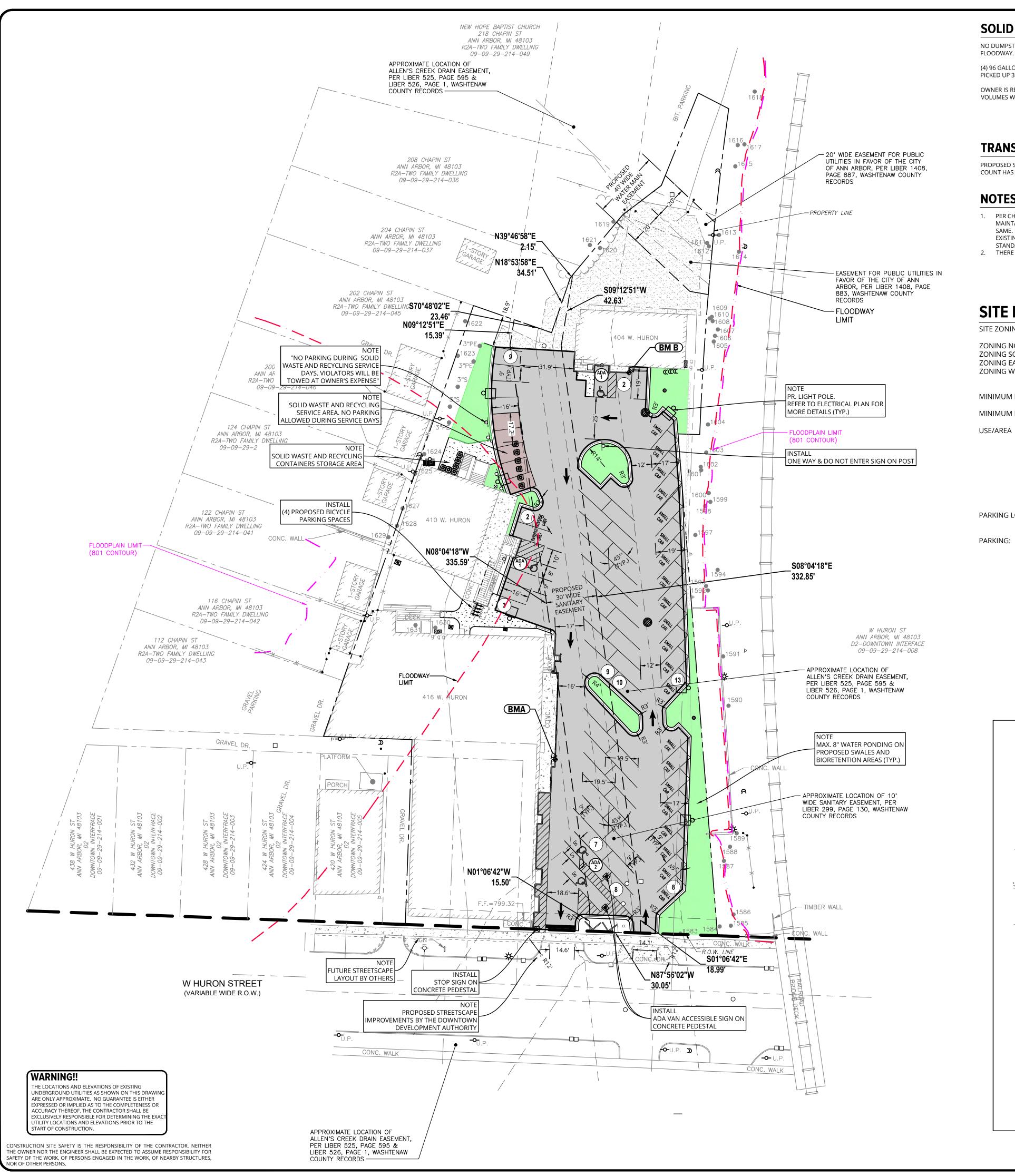
Checked By:

Sheet No.

C-401

NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME ② 2020

**ISSUED FOR SITE PLAN APPROVAL** 



### **SOLID WASTE NOTE**

NO DUMPSTER ENCLOSURE IS PROPOSED FOR THIS PROJECT DUE TO PROPERTY IS WITHIN THE

(4) 96 GALLON SOLID WASTE CONTAINERS AND (2) 96 GALLON RECYCLING CONTAINERS WILL BE PICKED UP 3 TIMES A WEEK IN LIEU OF A 6 CYD CONTAINER ONCE A WEEK.

OWNER IS RESPONSIBLE FOR MOVING CONTAINERS ON SERVICE DAYS. TRASH AND RECYCLING VOLUMES WILL NOT CHANGE DUE TO THESE PARKING LOT IMPROVEMENTS

### TRANSPORTATION STATEMENT

PROPOSED SITE IMPROVEMENTS DO NOT INCREASE THE TRAFFIC FLOW. THE TOTAL PARKING COUNT HAS BEEN REDUCED FROM 96 TO 82 WHILE MAINTAINING SIMILAR PAVED PARKING LAYOUT.

### **NOTES**

- 1. PER CHAPTER 49, SECTION 4:58 OF THE CITY CODE, ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME. PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY
- STANDARDS. THERE ARE NO EXISTING NOR PROPOSED FIREWALLS WITHIN SITE.

### **SITE DATA**

SITE ZONING: D2 - DOWNTOWN INTERFACE

ZONING NORTH: D2 - DOWNTOWN INTERFACE **ZONING SOUTH:** PUD - PLANNED UNIT DEVELOPMENT **ZONING EAST:** D2 - DOWNTOWN INTERFACE R2A - TWO-FAMILY DWELLING **ZONING WEST:** 

MINIMUM LOT AREA: NONE MINIMUM LOT WIDTH: NONE

404 W HURON ST - OFFICE/WAREHOUSE/INDUSTRIAL (2,066 SF)

410 W HURON ST - OFFICE, THEATER AND STORAGE (BASEMENT 2,133 SF) (1ST FLOOR 2,722 SF)

(2ND FLOOR 1,432 SF) 416 W HURON ST - OFFICE/WAREHOUSE/INDUSTRIAL (BASEMENT 603 SF) (1ST FLOOR 15,376 SF)

(2ND FLOOR 7,825 SF)

PARKING LOT: A MAXIMUM OF 15 PARKING SPACES ARE ALLOWED IN A PARKING ROW WITHOUT A LANDSCAPE ISLAND BREAK

PARKING:

STANDARD STALLS ADA STALLS TOTAL

> REQUIRED STALLS N/A (D2 ZONING) STANDARD STALLS

SMALL CAR STALLS ADA REQUIRED ADA PROVIDED 4 (1 VAN) TOTAL

### **EXISTING LEGEND**

CONTOUR -STORM SEWER — — — — — — — — — — — SANITARY SEWER — — — — — —

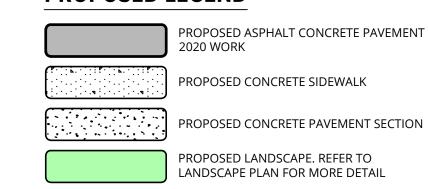
FLOODPLAIN LIMIT—— **HYDRANT UTILITY POLE** -- U.P. **GUY WIRE** LIGHT POLE MANHOLE CATCH BASIN SIGN GAS METER POST

FOUND IRON ROD CONCRETE ASPHALT PAVEMENT **GRAVEL** 

### **PROPOSED LEGEND**

TREE

FOUND IRON PIPE



PROPOSED CONCRETE MOUNTABLE CURB AND GUTTER PROPOSED WATER QUALITY UNIT PROPOSED OVERFLOW STRUCTURE

PROPOSED CATCH BASIN FURNISH INSTALL BLUE PAINT ADA COMPLIANT BARRIER FREE PARKING LOGO

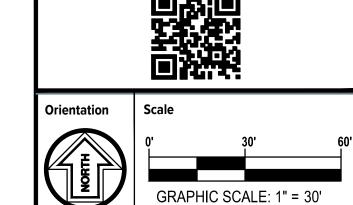
PROPOSED SIGN ON POST PROPOSED SIGN ON CONCRETE PEDESTAL FURNISH AND INSTALL WHEEL STOP

FURNISH AND INSTALL BOLLARD

——— FURNISH AND INSTALL 4" WIDE PAINT STRIPES FURNISH AND INSTALL STRIPING @ 36" O.C.

FURNISH AND INSTALL PAINTED ARROWS

PROPOSED STALL COUNT



**WEST HURON** PROPERTIES, LLC **PAVEMENT IMPROVEMENTS** 



**Project Location** 

416, 410 & 404 W. HURON ST. ANN ARBOR, MI 48103

Sheet Name

SITE LAYOUT PLAN

Engineer's Seal



SITE PLAN SUBMITTAL 09/26/2019 KMA SITE PLAN WCWRC SUBMITTAL 10/08/2020 SITE PLAN PER CITY COMMENTS 11/11/2020 HJC

08-26-2019

SME Project No.

081266.00 **Project Manager:** 

Designer:

CADD:

Checked By:

Sheet No.

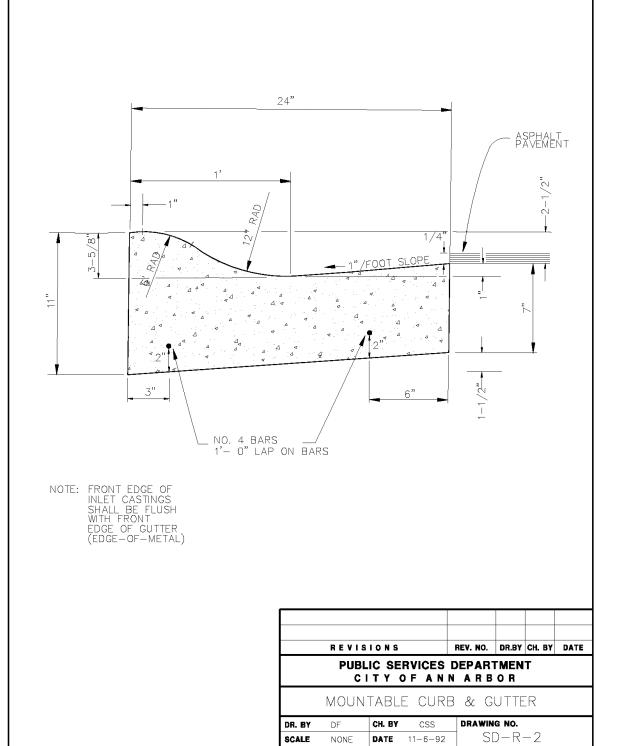
NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME

© 2020

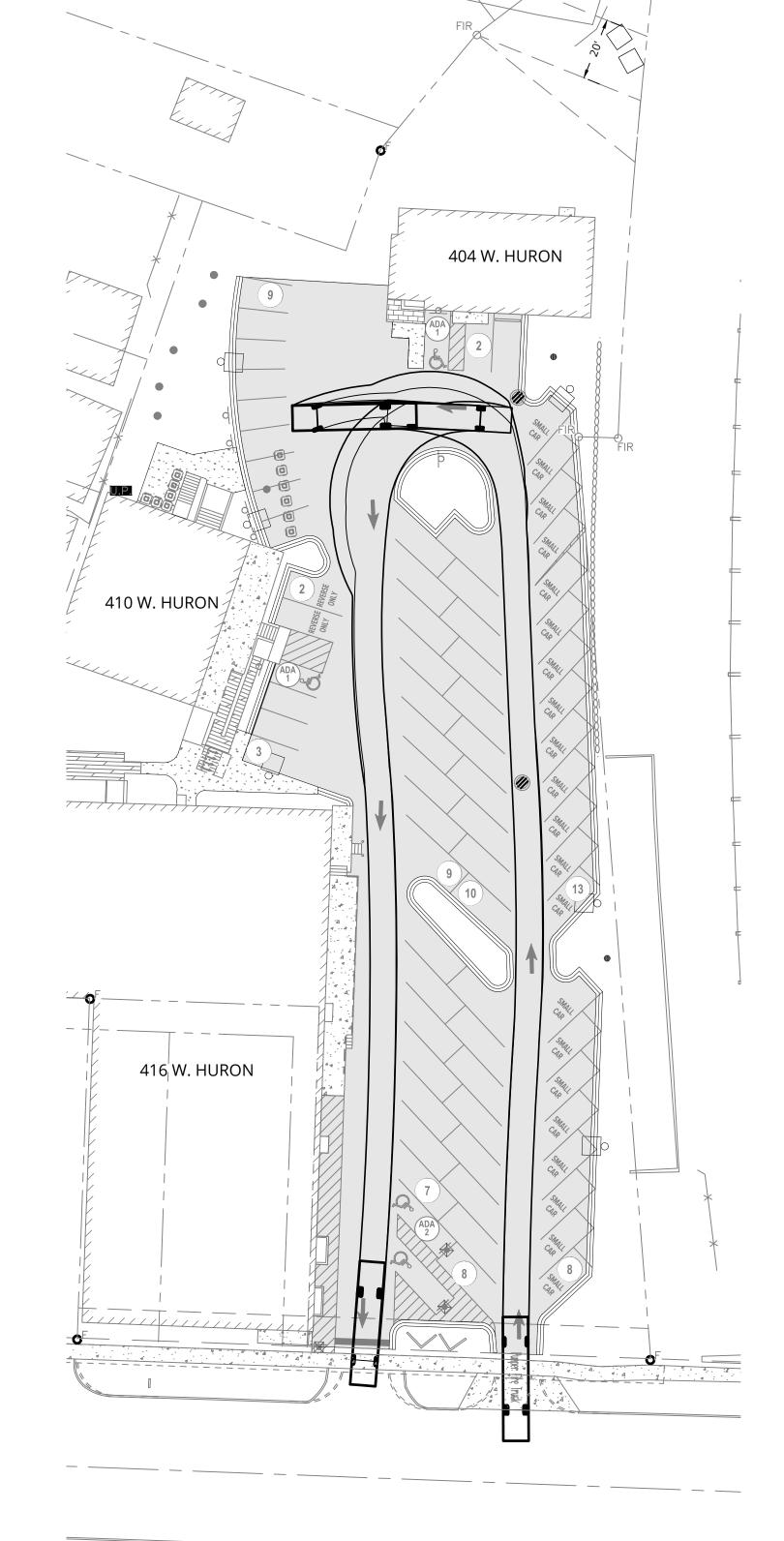
HJC

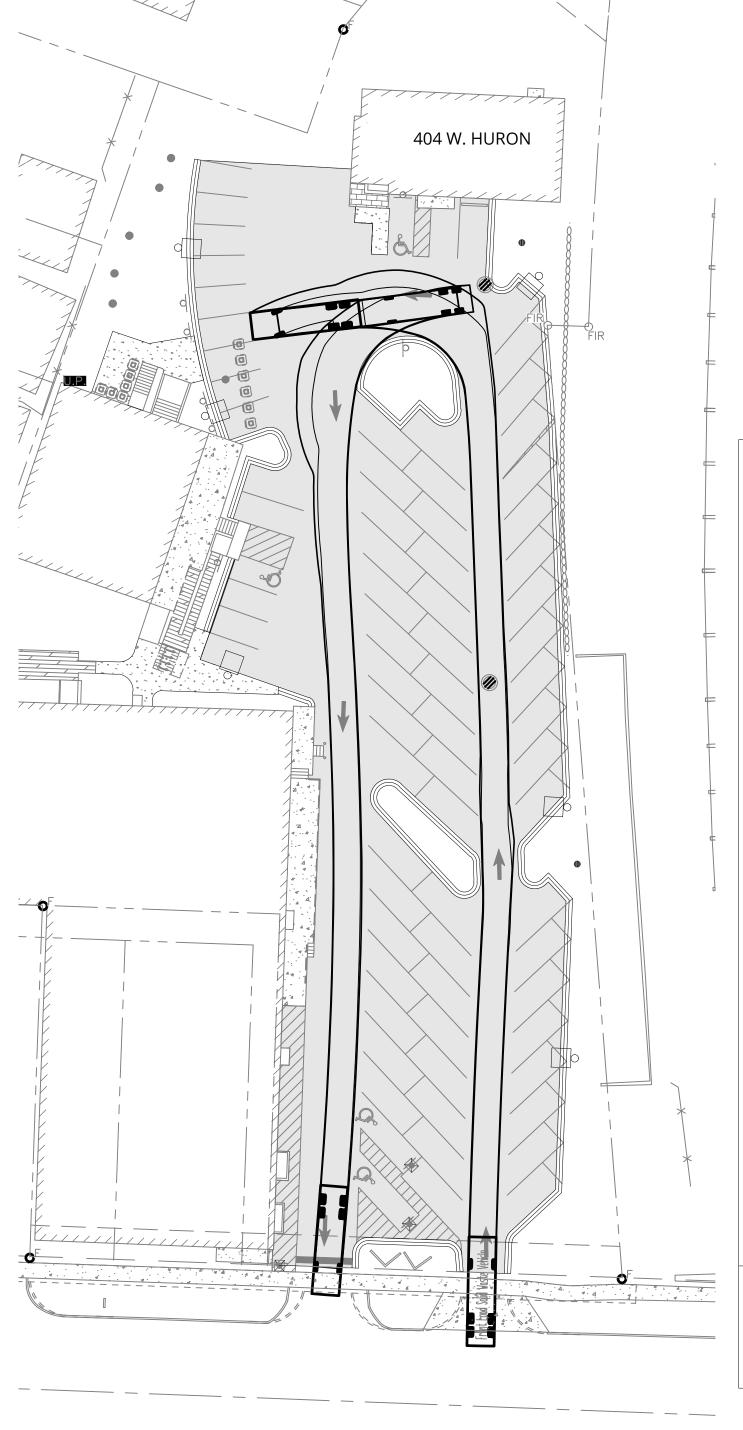
HJC

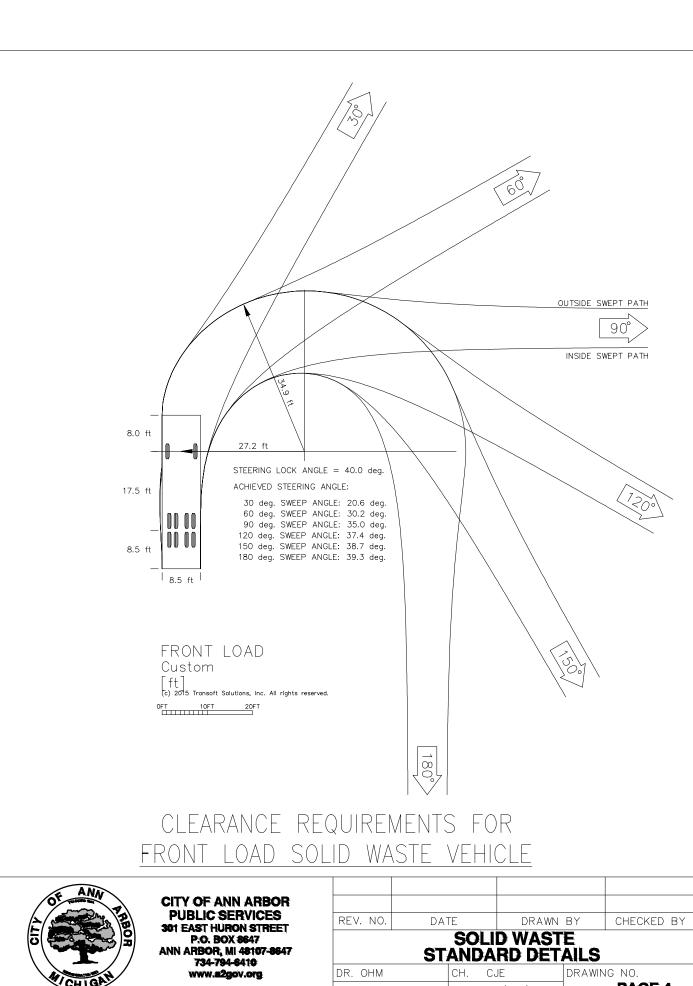
**C-500** 



**ISSUED FOR SITE PLAN APPROVAL** 







FIRE TRUCK VEHICLE **TURNING SIMULATION**  FRONT LOADER WASTE TRUCK **VEHICLE TURNING SIMULATION** 

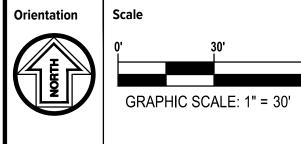
**ISSUED FOR SITE PLAN APPROVAL** 

DR. OHM

SCALE N.T.S.

DATE 12/08/15





WEST HURON PROPERTIES, LLC PAVEMENT **IMPROVEMENTS** 



416, 410 & 404 W. HURON ST. ANN ARBOR, MI 48103

VEHICLE TURNING SIMULATIONS

**Engineer's Seal** 



REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	09/26/2019	KMA
02	SITE PLAN SUBMITTAL	05/19/2020	JAS
03	SITE PLAN PER CITY COMMENTS	07/22/2020	JAS
04	SITE PLAN WCWRC SUBMITTAL	10/08/2020	HJC
05	SITE PLAN PER CITY COMMENTS	10/26/2020	HJC
06	SITE PLAN PER CITY COMMENTS	11/11/2020	HJC
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081266.00

Project Manager: JAS

Designer: HJC

PAGE 4

HJC

Checked By:

Sheet No. C-501

CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF NEARBY STRUCTURES,

Pumper Fire Truck

Overall Body Height

Lock-to-lock time Max Wheel Angle

Min Body Ground Clearance 0.656ft

40.000ft

8.167ft

7.745ft

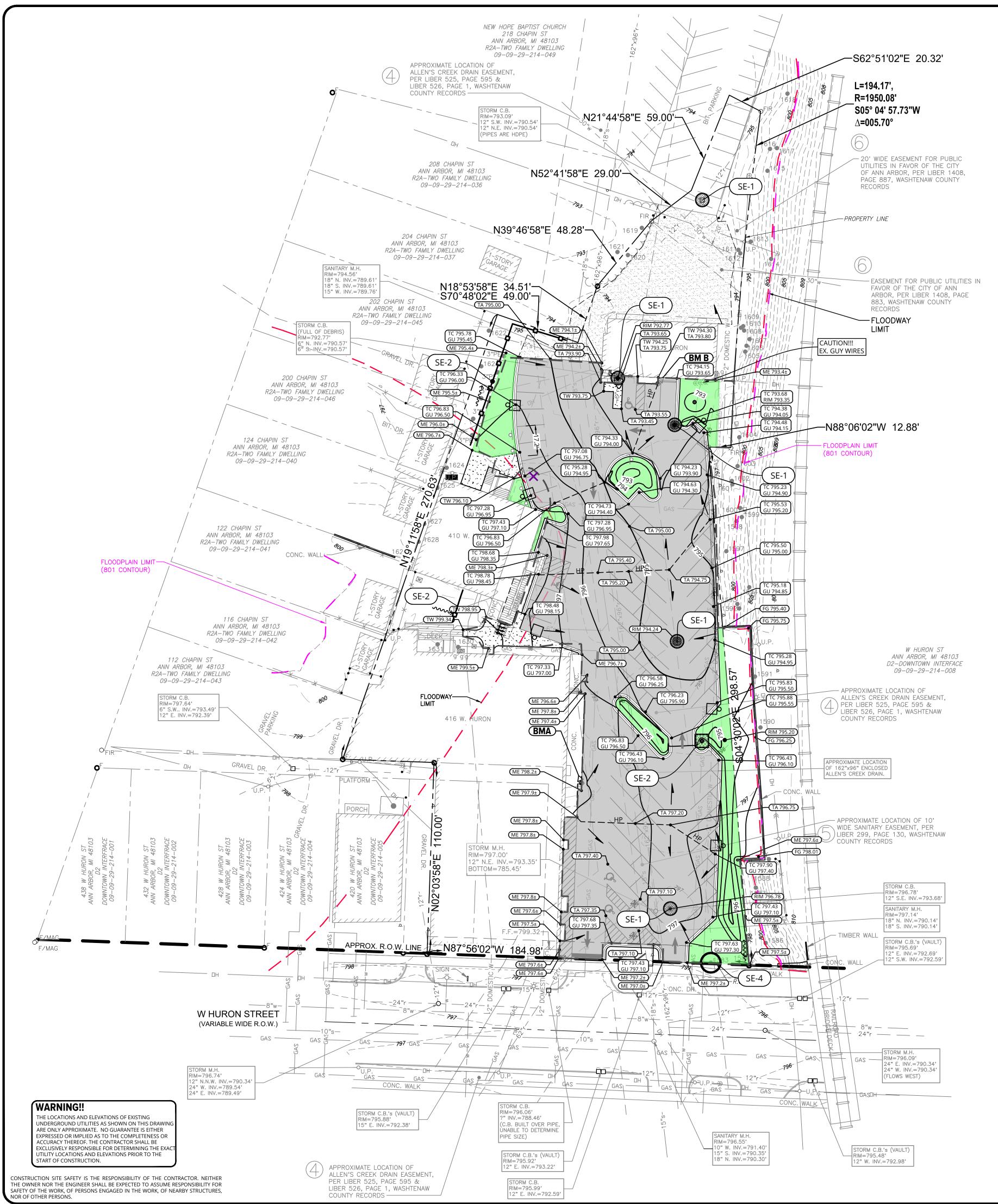
8.167ft 5.00s

45.00°

Overall Length

Overall Width

Track Width



### **BENCHMARK DATA**

SOUTHWEST CORNER OF CONCRETE PATIO/LOADING DOCK IN FRONT OF BUILDING @ #416 W. HURON ST.; +/-140' NORTH OF THE CENTERLINE OF HURON ST. N 285567.70, E 13289505.26,

ELEV. 801.25 (NAVD88 DATUM)

SOUTHWEST CORNER OF CONCRETE APPROACH TO BUILDING #404 W. HURON ST.: +/-33' WEST OF THE SOUTHWEST CORNER OF BUILDING; +/-103' NORTHEAST OF THE NORTHEAST CORNER OF BUILDING @ 410 W. HURON ST. N 285797.19,

E 13289549.09, ELEV. 794.28 (NAVD88 DATUM)

THE PROJECT WAS TIED INTO AAGRS NO. 0104 (NGS PID NE1047) AT THE SOUTHEAST CORNER OF W. HURON ST. AND CHAPIN ST

### **EXCAVATION NOTES**

1. EXCAVATED SOILS SHALL BE UTILIZED TO BACKFILL AND ROUGH GRADE BEHIND

2. EXCESS EXCAVATED SOILS SHALL BE TRANSPORTED OFF SITE AND DISPOSE IN A LEGAL MANNER.

## **NOTE**

1. SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY

### **SOIL TYPES ON SITE**

MDA - MATHERTON SANDY LOAM, 0 TO 4 PERCENT SLOPES

(SOIL INFORMATION TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE SOIL SURVEY)

### SESC CONSTRUCTION SCHEDULE

1.	START PROJECT:	JULY 2020
2.	INSTALL SESC MEASURES:	JULY 2020
3.	PERFORM REMOVALS:	JULY 2020
4.	PERFORM GRADING	JULY 2020
5.	INSTALL UTILITIES	JULY 2020
6.	INSTALL AGGREGATE BASE:	AUGUST 2020
7.	INSTALL CURB AND GUTTER:	AUGUST 2020
8.	INSTALL PAVEMENT	AUGUST 2020
9.	INSTALL LANDSCAPING:	SEPTEMBER 2020
10.	REMOVE TEMP. SESC MEASURES:	SEPTEMBER 2020
11.	RESTORE SITE:	SEPTEMBER 2020

### **EXCAVATION QUANTITY**

EXCAVATION FOR BIORETENTION SYSTEMS = APPROX. 85 CYD MATCH EXISTING GRADES ALONG PERIMETER OF THE LOT

### **IMPERVIOUS AREAS**

EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA: 31,850 SF RECONFIGURED IMPERVIOUS AREA: 8,900 SF

### **EROSION CONTROL**

EARTH DISTURBANCE IS NOT PERMITTED OUTSIDE THE NOTED DISTURBANCE LIMITS. DISTURBANCE IS NOT PERMITTED WITHIN THE FLOODPLAIN LIMITS. EARTH EXCAVATION FOR THIS PROJECT SHALL INCLUDE THE EXCAVATION FOR UNDERGROUND

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES, INCLUDING DUST CONTROL. THE FOLLOWING MINIMUM SESC MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND

UTILITIES AND SITE BALANCING TO REACH FINAL PAVEMENT SUBGRADE LEVELS.

- MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND TURF IS ESTABLISHED: 1. MUD MATS AT SITE ENTRANCE/EXIT POINTS TO MINIMIZE THE TRACKING OF DEBRIS/SOIL ONTO ROADWAYS OR NEIGHBORING PROPERTY. MUD MATS SHALL CONSIST OF LARGE
- COARSE AGGREGATE OVERLYING A GEOTEXTILE SEPARATOR FABRIC. 2. STOCKPILED SOILS SHALL BE COVERED OR OTHERWISE PROTECTED FROM ERODING INTO OFFSITE AREAS.
- 3. THE CONTRACTOR SHALL ESTABLISH PERMANENT STABILIZATION OF ALL EXPOSED AREAS WITHIN 7 DAYS OF FINAL GRADING. 4. BURLAP AND/OR STRAW BALES ARE NOT ALLOWED.
- 5. SEDIMENT TRAPS (I.E., SILT SACKS) SHALL BE INSTALLED AT EXISTING AND NEWLY INSTALLED INLET STRUCTURES AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. 6. SILT FENCING SHALL BE INSTALLED ALONG THE PERIMETER OF THE DISTURBED LIMITS (SEE

### MAINTENANCE REQUIREMENTS FOR SOIL **EROSION AND SEDIMENTATION CONTROL**

THE CONTRACTOR IS RESPONSIBLE FOR THE REGULAR INSPECTION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH MDEQ REQUIREMENTS.

REINSTALL OR OTHERWISE REPLACE SESC MEASURES IF FOUND TO BE DEFICIENT OR DO NOT MEET THE INTENDED FUNCTION. SEDIMENT AND DEBRIS ACCUMULATIONS SHALL BE REGULARLY REMOVED FROM SITE ENTRANCES,

CLEARED FROM SILT FENCE, AND INLET FILTERS. SEDIMENT AND DEBRIS SHALL NOT BE PERMITTED TO MIGRATE OUTSIDE OF THE DISTURBANCE LIMITS INDICATED ON THESE DRAWINGS. ANY SILT OR MUD TRACKED ON PAVED SURFACES OUTSIDE OF THE AREA OF DISTURBANCE SHALL BE REMOVED IN A MANNER THAT DOES NOT GENERATE AIRBORNE DUST. DUST CONTROL ACTIVITIES SHALL BE PERFORMED ON AN AS-NEEDED BASIS (MINIMUM OF ONCE PER

DAY), AND SHALL CONSIST OF AT LEAST THE USE OF A WATER TRUCK.

### **RESTORATION NOTES**

- 1. FOLLOWING FINAL GRADING CONTRACTOR SHALL INSTALL 4 INCHES OF TOPSOIL AND SEED OF DISTURBED AREAS.
- 2. INSTALL SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 1V:2H.
- 3. INSTALL HIGH VELOCITY SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPE STEEPER THAN 1V:2H.

### **SESC COST ESTIMATE**

125 LF X \$2.50/LF = \$212.50 SILT SACK = 5 EA X \$50/EA = \$250.00 TREE PROTECTION = 110 LF X \$7.50/LF = \$825.00 TOTAL = \$1,287.50

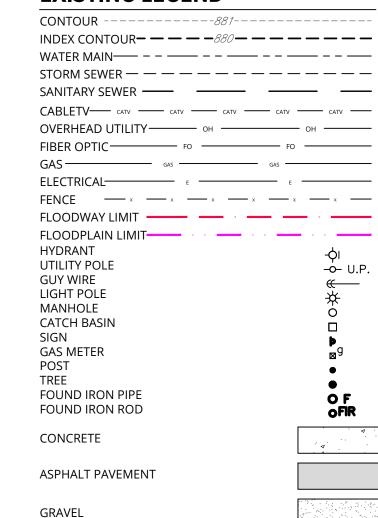
### **ESTIMATE FOR CEASE OF CONSTRUCTION**

TOTAL DISTURBED AREA X UNIT RATE = TOTAL COST IF CONSTRUCTION WAS TO CEASE 3,975 SY X (\$15/SY) = \$59,625





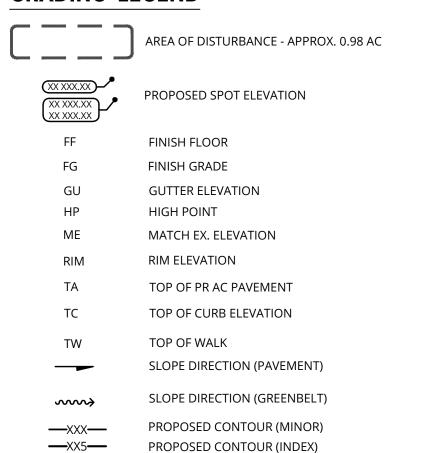
### **EXISTING LEGEND**



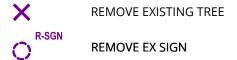
### **SOIL EROSION CONTROL LEGEND**



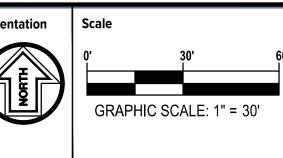
### **GRADING LEGEND**



### **FEATURES DESIGNATED FOR REMOVAL**







**WEST HURON** PROPERTIES, LLC PAVEMENT **IMPROVEMENTS** 



**Project Location** 

| 416, 410 & 404 W. HURON ST. ANN ARBOR, MI 48103

GRADING AND SOIL EROSION CONTROL AND STORM **WATER MANAGEMENT PLAN** 

Engineer's Seal



Rev	visions		
REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	09/26/2019	KMA
02	SITE PLAN SUBMITTAL	05/19/2020	JAS
03	SITE PLAN PER CITY COMMENTS	07/22/2020	JAS
04	SITE PLAN WCWRC SUBMITTAL	10/08/2020	HJC
05	SITE PLAN PER CITY COMMENTS	10/26/2020	HJC
06	SITE PLAN PER CITY COMMENTS	11/11/2020	HJC

08-26-2019 **SME Project No.** 

081266.00 Project Manager:

JAS Designer:

HJC

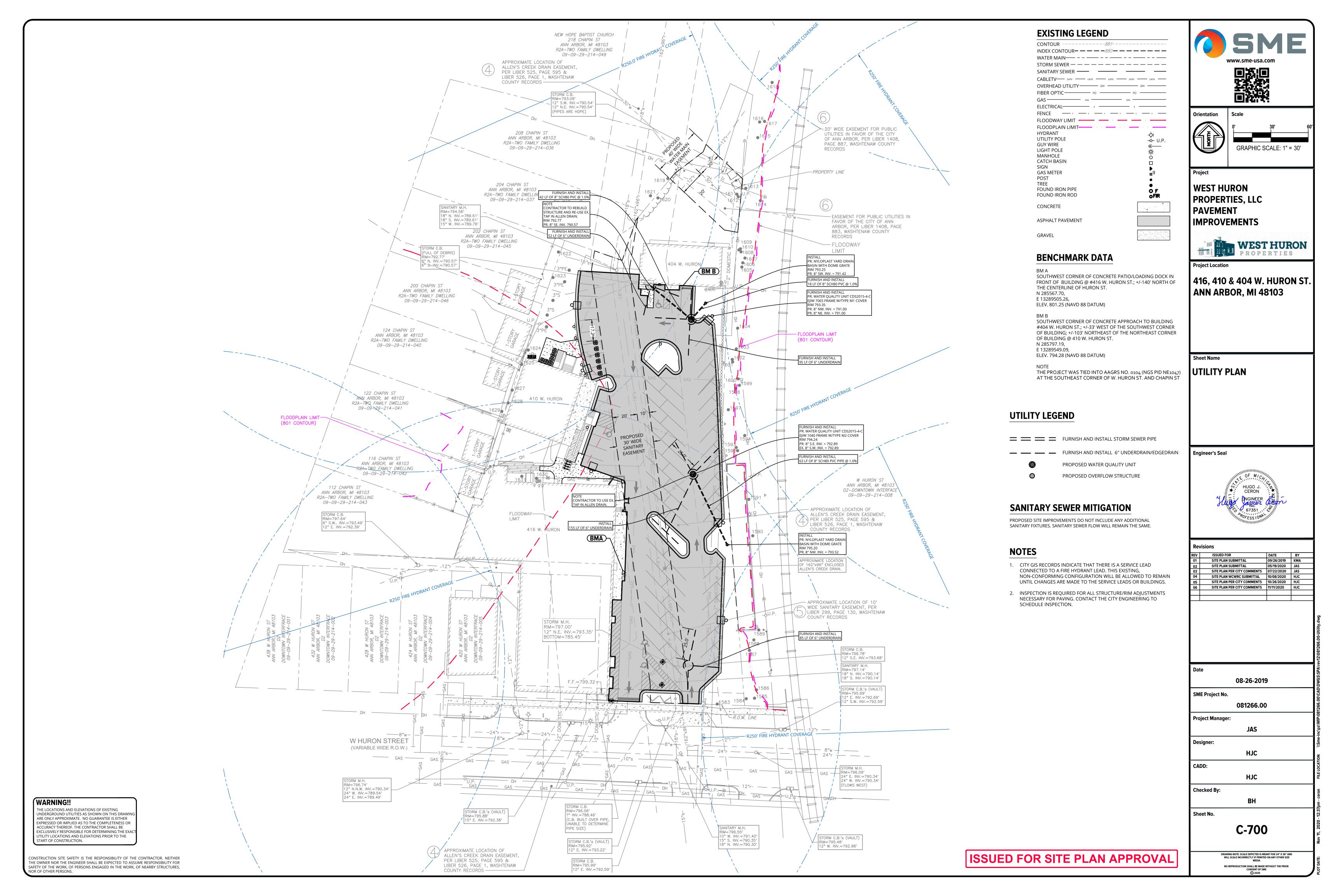
HJC

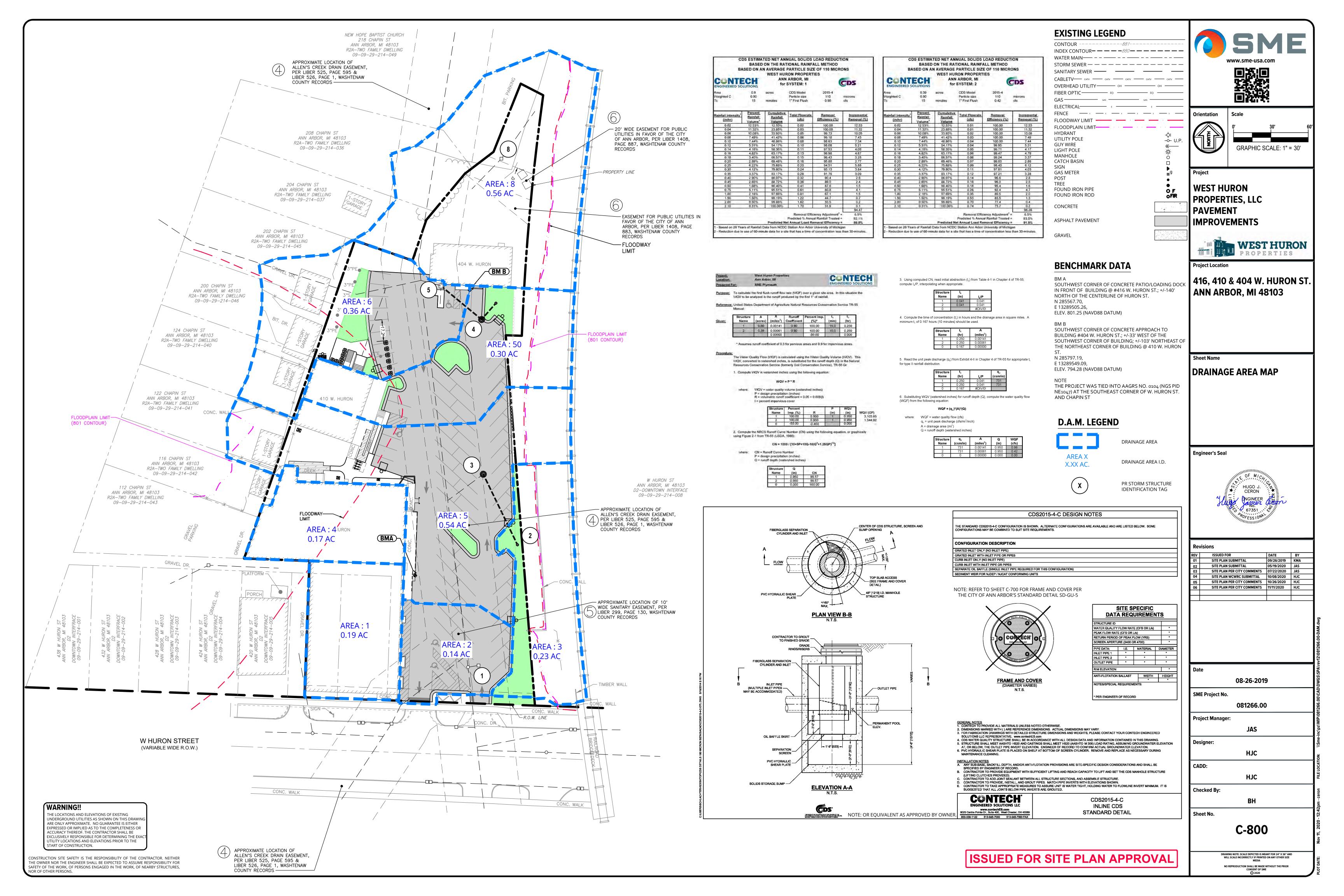
Checked By:

Sheet No. **C-600** 

NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME

**ISSUED FOR SITE PLAN APPROVAL** 





TAG#|DBH|COMMON NAME| GENUS/SPECIES |STEMS|SCORE|LM| INV | RM

Ulmus rubra

Ailanthus altissima

Acer negundo

Juglans nigra

Acer negundo

Ailanthus altissima Juglans nigra Acer negundo

Ulmus pumila

Acer negundo

Ailanthus altissima

Acer negundo

Acer negundo

Ulmus pumila

Acer negundo

Acer negundo

Acer negundo

Acer negundo

Ailanthus altissima

Populus deltoides

Populus deltoides

Ulmus americana

Acer negundo

Acer negundo

Juglans nigra

Juglans nigra

Acer negundo

Acer platanoides

Ailanthus altissima

Juglans nigra

Juglans nigra

Acer negundo Juglans nigra

Acer negundo

Thuja occidentalis

Prunis serotina

Prunis serotina Prunis serotina

Pyrus calleryana

Picea abies Picea abies

Pyrus calleryana

Thuja occidentalis twin

Catalpa speciosa twin

Juglans nigra

Ulmus pumila

1583 | 22" | Honey Locust | Gleditsia triacanthos

Red Elm

Box Elder

Tree-of-heaven

Box Elder

Siberian Elm

Siberian Elm

Box Elder

Box Elder

Box Elder

Box Elder

Box Elder

Box Elder

Tree-of-heaven

Cottonwood

Cottonwood

Black Walnut

Box Elder

Box Elder

Norway Maple

Tree-of-heaven

Black Walnut

Black Walnut

Box Elder

Catalpa

Cherry Cherry

Spruce

1640 | 3" | Bradford Pear | Pyrus calleryana

1613 | 8" | American Elm

617 | 20" | Black Walnut |

1618 | 16" | Black Walnut |

1620 | 24" | Box Elder

1629 | 13" | Box Elder

1630 | 13" | N. White-cedar |

1631 | 8" | N. White-cedar |

1636 | 3" | Bradford Pear

1639 | 3" | Bradford Pear

1609 | 10" | Tree-of-heaven | Ailanthus altissima

.610 | 16" | Tree-of-heaven | Ailanthus altissima

1619 | 15" | Black Locust | Robinia pseudoacacia |

1621 | 13" | Tree-of-heaven | Ailanthus altissima

1585 | 16" | Tree-of-heaven |

.587 | 12" | Black Walnut |

.588 | 12" | Box Elder

1598 | 8" | Box Elder

1599 | 10" | Tree-of-heaven |

Right-of-way screening

• Landscaping strip 10' deep from property line required; provided.

• 1 tree/30'vehicular use area required. 89' of vehicular use area facing the ROW/30'= 3 trees required. One existing. Additional trees cannot be planted in this area due to easement and floodway restrictions; a landscape modification will be requested for the

• Continuous shrubs, 30"H required; proposed on plan.

- Landscape islands required at 1 SF per 20 SF Vehicular Use Area.
- Vehicular Use Area (parking & drives): 28,230 SF/20 = 1,412 SF of landscape island. Islands have to be 165 SF minimum in size, with a least dimension of 8'. Provided as
- 50% of landscape islands need to be bioretention = 1,412 x 50% = 706 SF req'd. All islands
- 1 tree required per island, and at least 1 tree/250 SF of required island area. 1,412/250 = 6 trees req'd. Trees cannot be planted in the islands due to easement and floodway
- Snow storage: Shown on plans. Since parking is not required by ordinance in D2 zoning, snow storage is shown in parking spaces.

- Landscaping strip 15' wide from property line required; provided at the west and north
- 1 tree/15' length of vehicular use area required, plus continuous shrubs or fence 4' high. 50% of trees shall be evergreens.
- Area north of 410, on the west and north sides of parking: 103' wide so 7 trees required.

• 1 required for every 45' of street frontage. 185' of street frontage/45 = 5 trees. 3 existing,

STANDARD SNOW

FENCE WITH STEEL

FENCE SHALL BE LOCATED AT THE OUTER APPROVED LANDSCAPE PLAN. tree protection detail

Calam agrostis x. a. 'Karl Foerster'

Qty	Sym	Name	Size	Spacing	Root	Comments
		Trees:				
5	JTL	Japanese Tree Lilac Syringa reticulata	2.5-3"		B&B	Full
4	RC	Red Cedar Juniperus virginiana	4-5'		В&В	
2	SB	Serviceberry Amelanchier sp. 'Autumn Brilliance'	5-6'		В&В	Full, Multi-Stem
		Shrubs:				
20	CCV	Compact Amer. Cran. Viburnum Viburnum trilobum 'Compactum'	5 Gal		Cont.	
23	МН	Winterberry, Michigan Holly llex verticillata 'Red Sprite'	5 Gal		Cont.	
21	MV	Maple Leaved Viburnum Viburnum acerifolium	5 Gal		Cont.	
		Perennials & Grasses :				
19	AST	Aster Aster 'Wood's Light Blue'	1 Gal		Cont.	
24	BES	BlackEyed Susan Rudbeckia fulgida var. s. 'Goldstrum'	1 Gal		Cont.	
34	FI	False Indigo (Blue) Baptisisaustalis Var. Minor	2 Gal		Cont.	
13	GMG	Gracillimus Maiden Grass Miscanthus sp. 'Gricillimus'	2 Gal		Cont.	
36	KFG	Karl Foerster Grass Calamagrostis x. a. 'Karl Foerster'	2 Gal		Cont.	

plant list (proposed) tree list (existing)

Interior landscape islands:

shown on plans: 498 + 347 + 275 + 435 = 1,555 SF.

provide bioretention, plus extra bioretention at the east edge of site.

restrictions; a landscape modification will be requested.

Max. 15 parking spaces in a row without an island. Provided.

Conflicting land use buffer:

property lines along the proposed parking areas where buildings do not provide screening.

• Area between 416 & 410: 17' wide, so 1 tree required. Provided per plans.

7 provided, all existing to remain.

Street trees in the city apron between the street and sidewalk:

sufficient for 135' frontage. Owner will request landscape modification of two trees due to inability to plant in drainage easement.



UNTERIOR ISLAND EXISTING BLDG BLORETENTION ' TO REMAIN 4 O W HURON ST CUT AND REMOVE ALL VINES EXTENDING OVER FENCE ACCESS PATH -

> EXISTING BLDG TO REMAIN

416 W HURON ST.

163 PUBLIC WAGA

LAWŅ

overall landscape plan

PROPOSED NEW PARKING AREA

EXISTING/GRAVEL AREA TO REMAIN

FOR MAINT ACCESS

EXISTING BLDG TO REMAIN

404 W HURON ST.

PARKING AREA

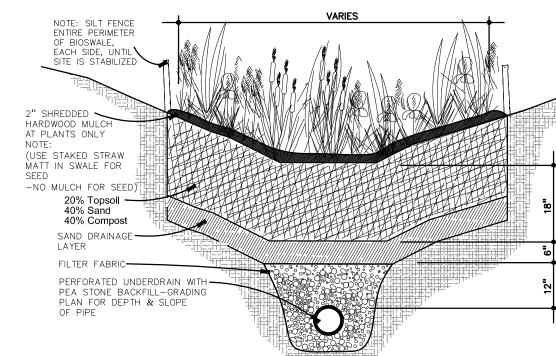
NORTH

CORNER ISLAN BIOSWALE 435 SF

Best suited for drainage swales or depressions, the native plants used in this mix help filter pollutants from lawns and pavement runoff. This seed mix can also be applied to areas that temporarily retain water after a rain event or dry-bottomed detention basins. The swale seed mix includes at least 10 of 12 native permanent grass and sedge

Permanent Grasses/Sedges		
Andropogon gerardii	Big Bluectom	4
Carex cristatella	Crected Oval Sedge	0
Careoc lurida	Bottlebrush Sedge	3
Carex spp.	Prairie Sedge Species	8
Carex vulpinoidea	Brown Fox Sedge	3
Elymus canadensis	Canada Wild Rye	16
Elymus virginicus	Virginia Wild Rye	16
Juncus canadensis	Canadian Rush	1
Panicum virgatum	Switch Grass	3
Scirpus atrovirens	Dark Green Rush	2
Scirpus cyperinus	Wool Grass	0
Spartina pectinata	Prairie Cord Grace	3
	Total	60
Temporary Cover	No. of the last of	
Avena sativa	Common Oat	360
Lolium multiflorum	Annual Rya	100
	Total	460
Forbs		
Alisme subcordatum	Common Water Plantain	1
Asclepias incarnata	Swamp Milkwaed	2
Coreapsis tripteris	Tall Coreopsis	1
Euthamia gramini folia	Common Grass-Leaved Goldenrod	. 0
Eutrochium maculatum	Spotted Joe-Pye Weed	1
Iris virginica v. shravai	Blue Flag	4
Liatris spicata	Marsh Blazing Star	1
Lycopus americanus	Common Water Horehound	0
Mimulus ringens	Monkey Flower	0
Penthorum sedoides	Ditch Stonecrop	1
Pycnanthemum virginianum	Common Mountain Mint	0
Rudbeckia triloba	Brown-Eyed Sucan	- 1
Senna hebecarpa	Wild Senna	- 1
Silphium terebinthinaceum	Prairie Dock	1
Symphyotrichum novae-angliae	New England Actor	0
Verbena hastata	Blue Vervain	1
Zizia aurea	Golden Alexanders	2
	Total	20

swale seed mix



- SWALE SEED MIX (TYPICAL)

8 KFG 14 BES 19 AST

**BIO SWALE MAINTENANCE** 

3. REPLANT ALL ERODED BANKS, BARE SPOTS ETC. AS NECESSARY. 4. INSPECT BIO SWALE FOR INVASIVE SPECIES SUCH AS PURPLE LOOSESTRIFE, PHRAGMITES,

THE CONTRACTOR SHALL ASSUME MAINTENANCE RESPONSIBILITIES FOR A MINIMUM OF ONE (1) YEAR OR UNTIL ESTABLISHED. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REPLANTING AND OTHER OPERATIONS NECESSARY TO KEEP LANDSCAPE IN A THRIVING CONDITION. SUPPLEMENT WATERING BY TRUCKING WITH MOBILE TANKS ETC. TO SUPPLY THE NECESSARY

landscape development plan

species and 12 of 17 native forb species to provide diversity for establishment. Apply at 33.75 PLS pounds per acre.

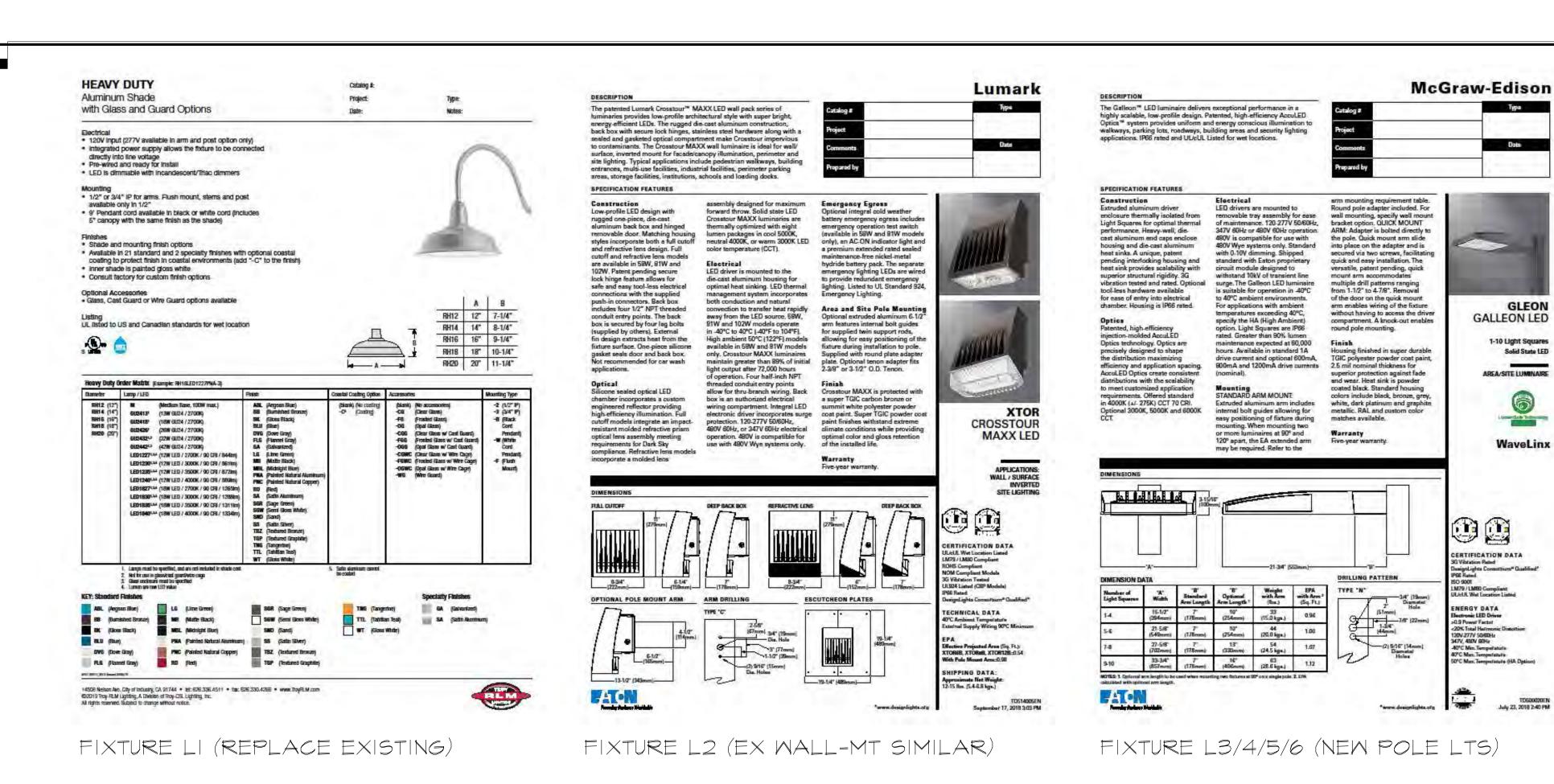


# bio swale - typical cross section

CHECK FOR FLOATABLES AND DEBRIS AND REMOVE . REMOVE DEAD VEGETATION AND WEEDS THAT OBSTRUCTS FLOW (SPRING)

BUCKTHORN (COMMON & GLOSSY),HONEYSUCKLE AND AUTUMN OLIVE, REMOVE IF PRESENT.(ANNUALLY)

WATER AS REQUIRED DURING THE ESTABLISHMENT PERIOD.

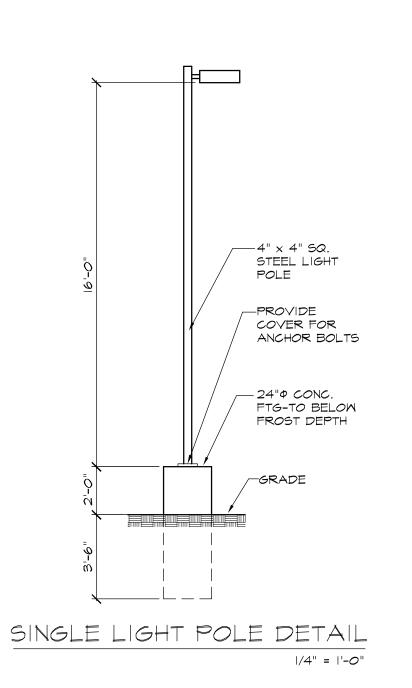


Luminaire Schedule								
Symbol	Qty	Label	LLF	Description	Lum. Watts	Lum. Lumens		
<u> </u>	7	EX	0.900	EXISTING LUMARK XTOR9ARL	79	8504		
Ō	3	L1	0.900	TROYRLM RH18-LED1840-XX-XX	17.857	923		
	1	L2	0.900	LUMARK XTOR8BRL-W	81	8504		
	2	L3	0.900	GLEON-AF-02-LED-E1-SL3-HSS	113	10644		
——————————————————————————————————————	1	L4	0.900	GLEON-AF-02-LED-E1-SL4-HSS	113	10111		

GLEON-AF-02-LED-E1-SL4

GLEON-AF-02-LED-E1-SLL

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
410 Bldg Walkway	Illuminance	Fc	3.75	5.2	1.3	2.88	4.00
Beyond Property Line	Illuminance	Fc	0.03	1.6	0.0	N.A.	N.A.
Parking Lot	Illuminance	Fc	2.61	11.0	0.1	26.10	110.00
Property Line	Illuminance	Fc	0.23	3.5	0.0	N.A.	N.A.



11838

10949

Date

GLEON

**GALLEON LED** 

1-10 Light Squares

AREA/SITE LUMINAIRE

Solid State LED

WaveLinx

CERTIFICATION DATA 63 Vibration Raind DesignLights Consottium\* Qualified\* P66 Raind

NERGY DATA schronic LED Driver OP Fowell Factor ON Total Harmonic Distortion ON 27TV SORDHz TV, 48TV 8DHz

Cornerstone Design

> 734.663.7580 210 Collingwood, Ste. 106 Ann Arbor, MI 48103 info@cdiarchitects.com

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TE PHOTOMETRIC PLAN I" = 30'-0"

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Owner/Client:

West Huron Properties,

416 W Huron St., Ste. 23 Ann Arbor, MI 48103

Project:

Parking Lot Site Plan

404-416 W. Huron St. Ann Arbor, MI

Revisions:

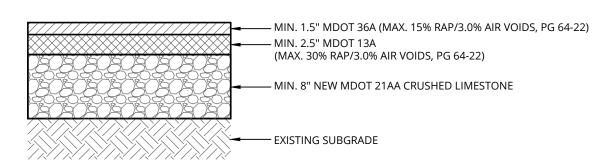
4/13/20 Drawn: 201918 Project No.: AS SHOWN Approved:

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Drawing Title:

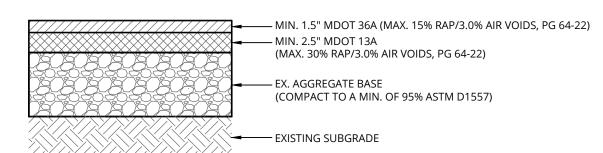
Photometric Plan

Sheet No.:



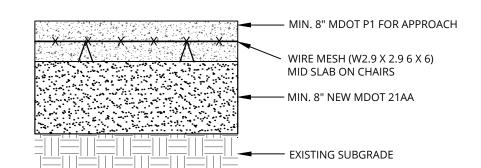
# HMA OVER NEW BASE - STANDARD DUTY - DETAIL

APPLY TACK COAT OF SS-1H (0.1 GALLONS/S.Y.) BETWEEN ALL HMA LAYERS



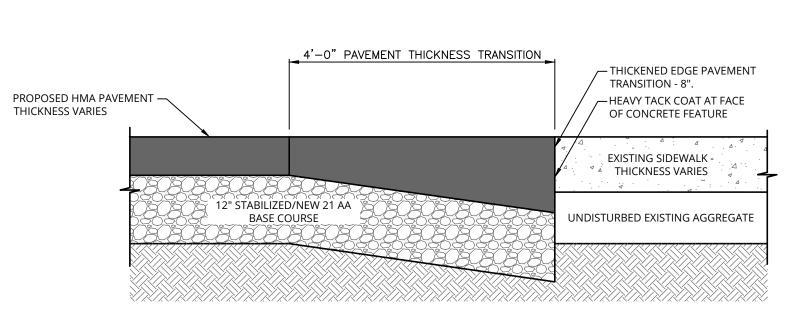
# HMA OVER EXISTING BASE - STANDARD DUTY - DETAIL

APPLY TACK COAT OF SS-1H (0.1 GALLONS/S.Y.) BETWEEN ALL HMA LAYERS

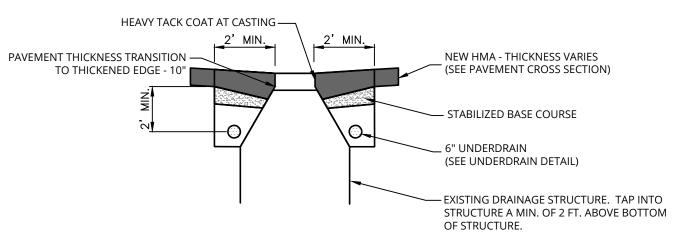


### PCC DUMPSTER PAD DETAIL

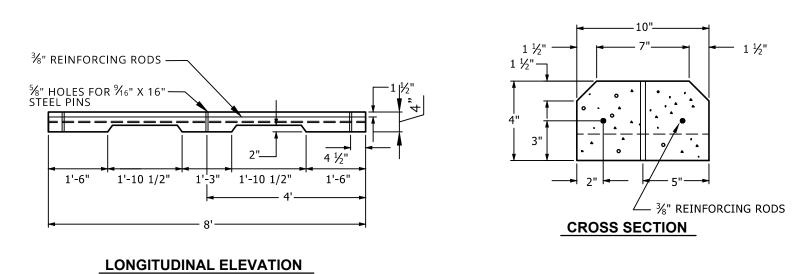
1. SAWCUT JOINTS TO 12' X 12' SLABS. JOINT TO BE 1/4" WIDE AND 2.75" DEEP. SEAL JOINTS WITH HOT POURED RUBBER.



THICKENED EDGE DETAIL - DETAIL



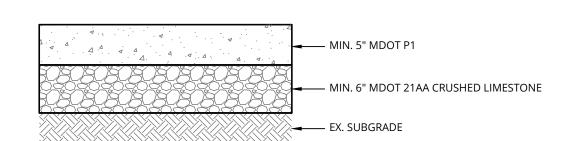
### THICKENED EDGE HMA AT UTILITY STRUCTURE DETAIL



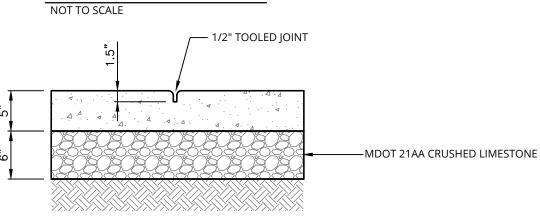
SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF NEARBY STRUCTURES,

# CONCRETE PARKING BUMPER DETAIL

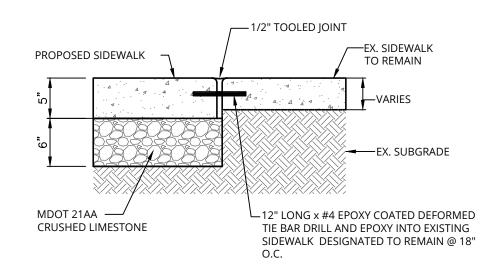
CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME RESPONSIBILITY FOR



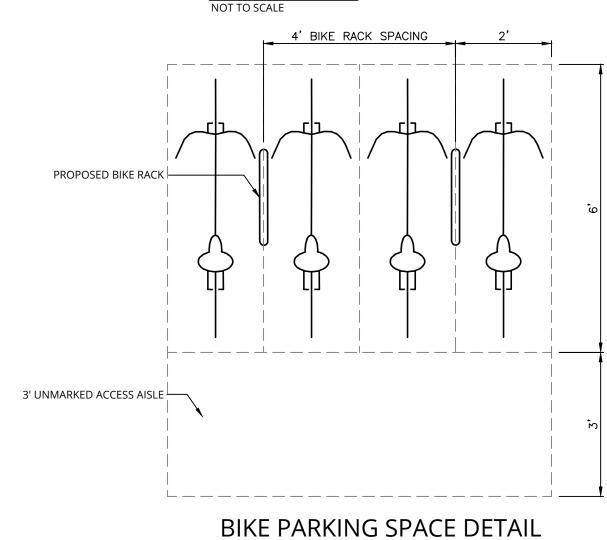
# SIDEWALK - DETAIL



SIDEWALK CONTROL JOINT DETAIL



SIDEWALK CONSTRUCTION JOINT DETAIL



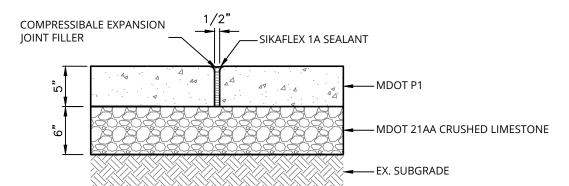
In Ground #12707 IN GROUND MOUNT SURFACE MOUNT Surface #12700 3/8" x 1" Torx Bolt & 3/8" x 1" S/S Drop In Anchor (4) Places per Rack Drill Out 1-1/2" - 1/2"

Plastisol (Classic) Racks Surface Mount / In Ground Mount {Dims}

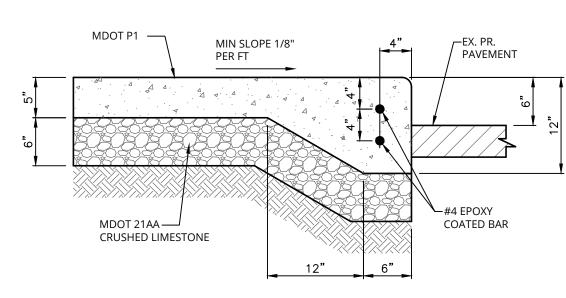
# **BIKE RACK DETAIL** NOTE: OR APPROVED ALTERNATIVE BY OWNER.

CycleSafe

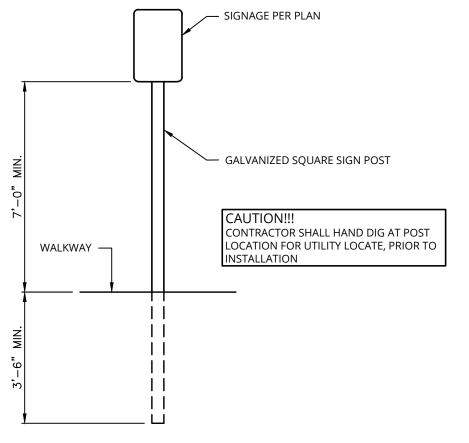
www.cyclesafe.com

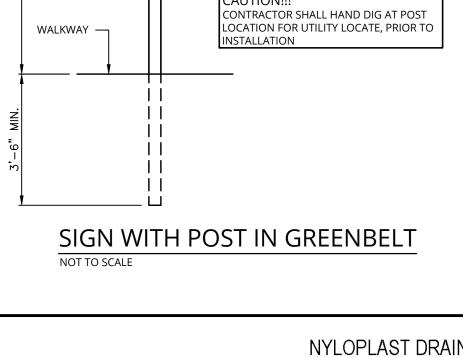


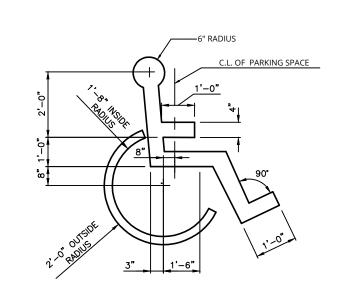
SIDEWALK EXPANSION JOINT DETAIL



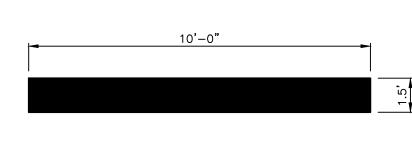
THICKENED EDGE SIDEWALK DETAIL



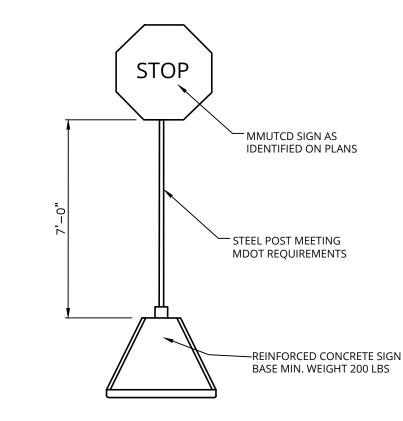




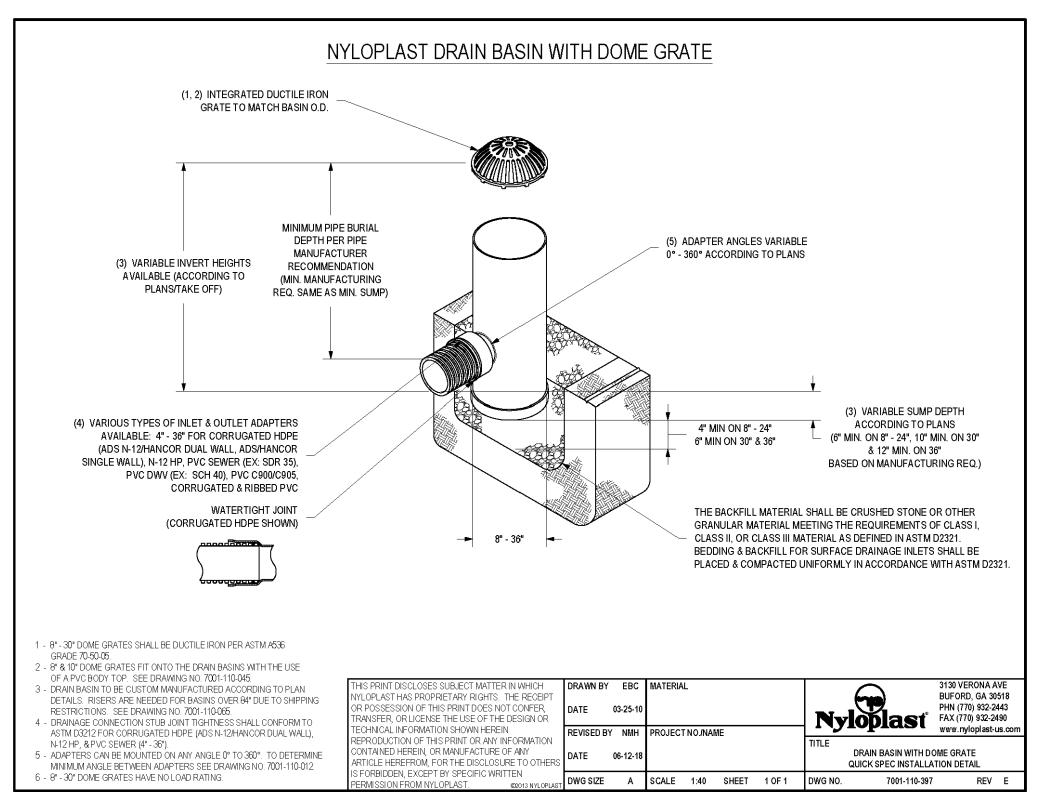
BARRIER FREE DETAIL



STOP BAR WITH STOP - DETAIL NOT TO SCALE



SIGN ON CONCRETE BASE DETAIL



YARD BASIN DETAIL



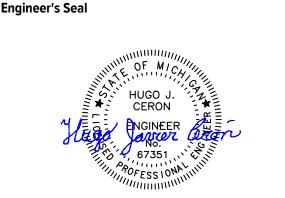
**WEST HURON** PROPERTIES, LLC **PAVEMENT IMPROVEMENTS** 



**Project Location** 

416, 410 & 404 W. HURON ST. ANN ARBOR, MI 48103

**Sheet Name** DETAILS



ISSUED FOR 09/26/2019 KMA SITE PLAN WCWRC SUBMITTAL 10/08/2020 HJC SITE PLAN PER CITY COMMENTS 10/26/2020 HJC SITE PLAN PER CITY COMMENTS 11/11/2020 HJC

08-26-2019

SME Project No. 081266.00

**Project Manager:** JAS

Designer: HJC

CADD: HJC

Checked By: BH

Sheet No. **D-100** 

**ISSUED FOR SITE PLAN APPROVAL** NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME (5) 2020

