



City of Detroit
Inter-Departmental Communication

TO: Richard Doherty, City Engineer
City Engineering/Department of Public Works

FROM: Debra Singleton, Engineer
Detroit Water and Sewerage Department

DATE: March 26, 2018

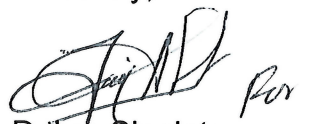
RE: Petition No. 1683
Requested Encroachment Into Temple At 2771 Woodward With(Planters, Trees, Shrubs, Railings, Bike Racks, Street Lights, Removable Bollards, Pole with Blue Light Security Phone, Cameras and Warning Strips)

We have reviewed the above Petition received by this office. With regard to DWSD's interests, our comments are as follows:

- DWSD has no objections to the requested encroachments provided that the attached provisions for encroachment are strictly followed.

If you have any questions, please call me at (313) 267-8309 or Mohammed Fa Siddique at (313)-964-9245.

Sincerely,


Debra Singleton
Engineer
Permits

DS/MS/gl

Attachments

CC: Mohamad Farhat, CSF

Michael Duggan, Mayor

City of Detroit
City Engineering Division, Department of Public Works
Survey Bureau

NOTICE OF PROPOSED CHANGE IN PROPERTY

Date: 01/03/2018

Petition: x1683

- | | |
|--|--|
| <input type="checkbox"/> AT&T Telecommunication | <input type="checkbox"/> Berm Use |
| <input type="checkbox"/> Comcast Television (CATV) | <input type="checkbox"/> Conversion to Easement |
| <input type="checkbox"/> Detroit Edison (DTE) | <input type="checkbox"/> Dedication |
| <input type="checkbox"/> Fire Department | <input checked="" type="checkbox"/> Encroachment |
| <input type="checkbox"/> Great Lakes Water Authority | <input type="checkbox"/> Outright Vacation |
| <input type="checkbox"/> Land Bank Authority | <input type="checkbox"/> Temporary Closing |
| <input type="checkbox"/> Michcon (DTE) | |
| <input type="checkbox"/> Planning & Development Department | |
| <input type="checkbox"/> Public Lighting Authority | |
| <input type="checkbox"/> Public Lighting Department | |
| <input type="checkbox"/> Police Department | |
| <input type="checkbox"/> Solid Waste Division, DPW | |
| <input type="checkbox"/> Street Design Bureau, DPW | |
| <input type="checkbox"/> Street Maintenance Division, DPW | |
| <input type="checkbox"/> Traffic Engineering Division, DPW | |
| <input type="checkbox"/> Water and Sewerage Department | |
| <input type="checkbox"/> _____ | |

A petition drawing is attached. Property shown on the attached print is proposed to be changed as indicated. Kindly report (using the back of this sheet) the nature of your services, if any affected by the proposed change and the estimated costs of removing and rerouting such services (if necessary).

Please return one copy to City Engineering Division, DPW within two weeks of the submittal date. Retain one copy and print for you file.

Ron Brundidge, Director, Department of Public Works

By: Richard Doherty, CED DPW
City Engineer

**TO: City Engineering Division, DPW
2 Woodward Ave., Suite 642
Detroit, Michigan 48226-3462
Survey Bureau: 313-224-3970**

Petition: x1683

The proposed change in property (referred to on the other side of this sheet) would affect our services as follows:

- Not Involved

- Involved; but asking you to hold action on this petition until further notice.

- Involved; but no objections to the property change.

- Involved; objection to the property change.

- Involved; but no objections to the property change...provided as easement of the full width of the public right-of-way (street, alley or other public place) is reserved.

- Involved; the nature of our services and the estimated costs of removing and/or rerouting such services are:

(Utility or City Department)

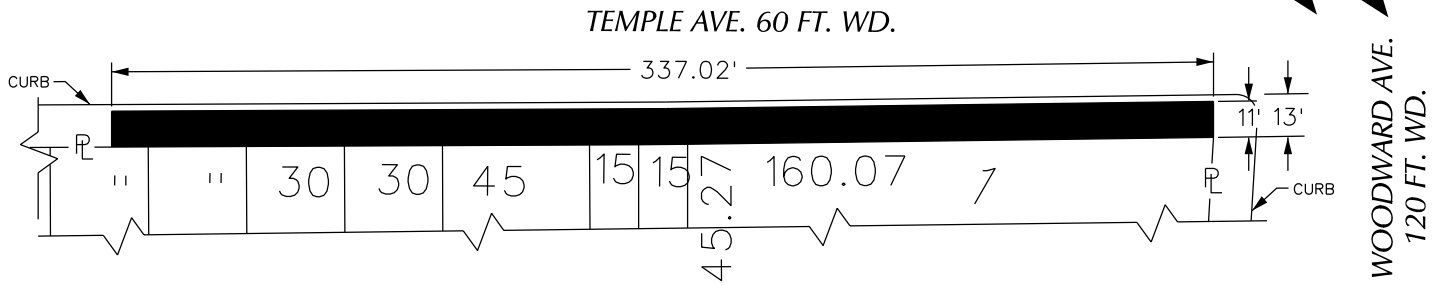
By

Title

Date

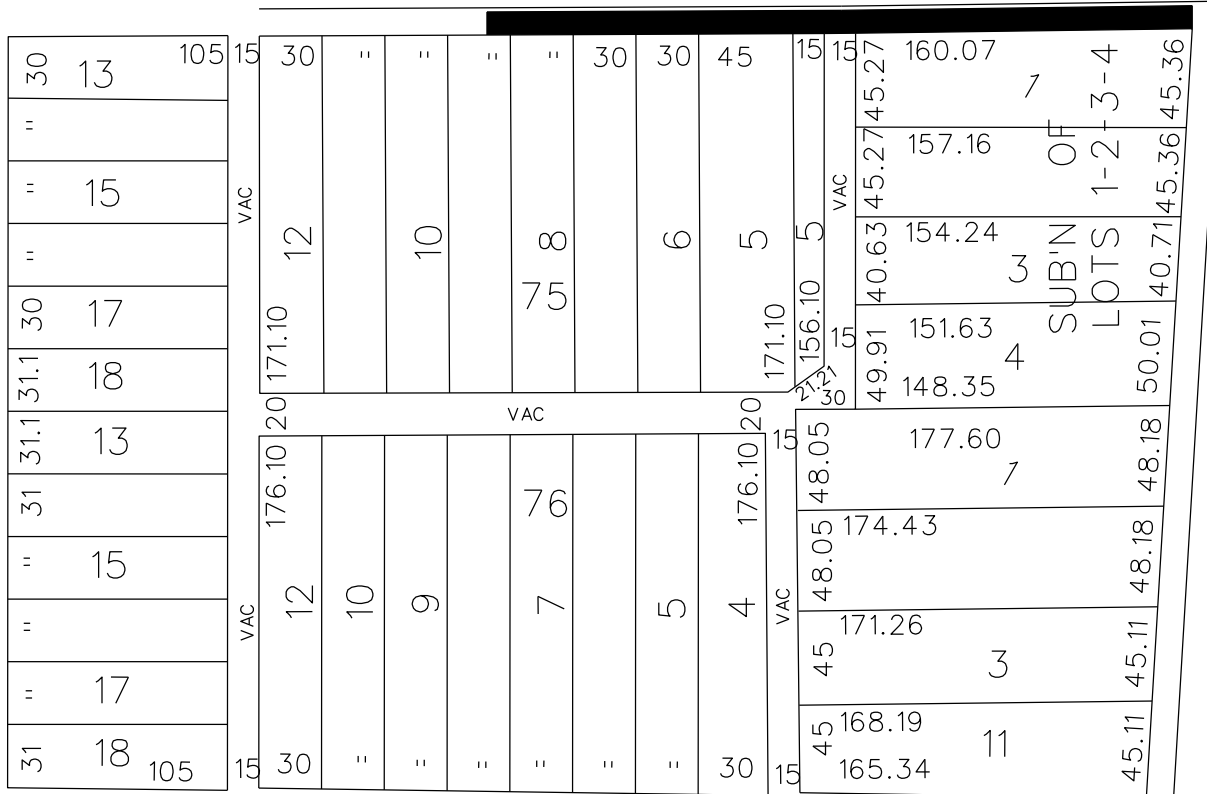
Area code – Telephone number

PETITION NO. 1683
 WAYNE STATE UNIVERSITY
 5454 CASS AVE.
 DETROIT, MICHIGAN 48202
 C/O HARRY E. WYATT JR.
 PHONE NO. 313 577-4301



TEMPLE AVE. 60 FT. WD.

PARK AVE. 60 FT. WD.



WOODWARD AVE. 120 FT. WD.

SPROAT ST. 50 FT. WD.

EASEMENT



- REQUEST ENCROACHMENT
 (With Planters, Trees, Shrubs, Railings, Bike Racks,
 Street Lights, Removable Bollards, Pole w/Blue Light
 Security Phone, Cameras and Warning Strip)

(FOR OFFICE USE ONLY)

CARTO 29 E

B A					REQUEST ENCROACHMENT INTO TEMPLE AT 2771 WOODWARD AVE.					CITY OF DETROIT CITY ENGINEERING DEPARTMENT SURVEY BUREAU							
DESCRIPTION		DRWN	CHKD	APPD	DATE	(With Planters, Trees, Shrubs, Railings, Bike Racks, Street Lights, Removable Bollards, Pole w/Blue Light Security Phone, Cameras and Warning Strip)					JOB NO.		01-01				
DRAWN BY		WLW									CHECKED		DRWG. NO.		X 1683		
DATE		01-03-18									APPROVED						

PROVISIONS FOR ENCROACHMENT For Petition 1683

Detroit Water and Sewerage (DWSD) agree to the proposed encroachment subject to the fulfilling of the following provisions:

1. By approval of this petition the (DWSD) does not waive any of its rights to its facilities located in the right of way, and at all time, DWSD, its agents or employees, shall have the right to enter upon the right of way to maintain, repair, alter, service, inspect, or install its facilities. All costs incident to the damaging, dismantling, demolishing, removal and replacement of structures or other improvements herein permitted and incurred in gaining access to DWSD's facilities for maintenance, repairing, alteration, servicing or inspection caused by the encroachment shall be borne by the petitioner. All costs associated with gaining access to DWSD's facilities, which could normally be expected had the petitioner not encroached into the right of way shall be borne by DWSD.
2. All construction performed under this petition shall not be commenced until after five (5) days written notice to DWSD. Seventy-two (72) hours notice shall also be provided in accordance with P.A. 53 1974, as amended, utilizing the MISS DIG one call system.
3. Construction under this petition is subject to inspection and approval by DWSD forces. The cost of such inspection shall, at the discretion of DWSD, be borne by the petitioner.
4. If DWSD facilities located within the right of way shall break or be damaged as the result of any action on the part of the petitioner, then in such event the petitioner agrees to be liable for all costs incident to the repair, replacement or relocation of such broken or damaged DWSD facilities.
5. The petitioner shall hold DWSD harmless for any damage to the encroaching device constructed or installed under this petition, which may be caused by the failure of DWSD's facilities.



The Honorable City Council
Attn: Office of the City Clerk
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 200
Detroit, MI 48226

**RE: Wayne State University-Mike Ilitch School of Business (MISB) Petition Request Information
Project Address: 2771 Woodward Avenue, Detroit, Michigan 48201**

The petition request is for permanent construction within the Temple Street right-of-way and permanent construction within the City of Detroit water main easement along Woodward Avenue. The WSU MISB project is located at the southwest corner of Temple Street and Woodward.

The intent of this narrative is to begin the petition request process for construction within the right-of-way and water main easement noted above.

Because of WSU's status as a State University, State of Michigan guidelines and inspectors govern WSU development projects (this applies *only* to work outside the ROW and easement). Therefore, construction within WSU property limits will not be going through typical BSEED review, as the State of Michigan is the Authority Having Jurisdiction (AHJ) for the project.

WSU understands that construction within City of Detroit rights-of-way and easements requires City review. Proposed ROW and easement construction elements are outlined below. The format of this narrative follows City of Detroit document titled "City Council Petition Request Instructions" which requires answers to "who, what, when, where, and why." Please see below.

Who:

- Wayne State University
Harry E. Wyatt, Jr.
Associate Vice President
Facilities Planning & Management
313-577-4301
harry.wyatt@wayne.edu

Where and What:

Temple Ave. ROW (Area between Temple Ave. ROW and Temple Curb). Construction of the following items is proposed:

- Planters, trees, shrubs
- Temple Curbs, pavement (pedestrian and vehicular), railings
- Bike racks between planters
- District street lights

- Removable bollards
- Pole with blue light, security phone, and cameras
- Detectable warning strip

Woodward Ave. water main easement (Area between DWSD Utility Easement and Woodward Right of Way). Construction of the following items is proposed.

- Storm pipes, storm manhole structure, water main line and gate valve and box
- Canopy encroachments at the DWSD easement on Woodward
- District street lights
- Pavement (pedestrian and heated pedestrian concrete)
- Frost slabs

When:

Construction of elements in the right-of-way and easement is anticipated to begin around October 1, 2017

Why:

The Mike Ilitch School of Business will be an integral part of the District Detroit. Because it is located just north of the new Little Caesars Arena, the streetscape near the WSU MISB will be consistent with the patterns and site language defined by the arena. The work in the ROW and water main easement will enhance the pedestrian experience. Proposed vegetated planters foster an inviting streetscape and aesthetic backdrop as they improve air quality and help capture rain events to ease sewer demands. Overhead shade trees follow suit as they lower surface temperatures on hot summer days. The result is a robust urban environment that becomes a local and regional attraction, catalyzing new business development and defining a cultural sense of place.



**Mike Ilitch
School of Business**

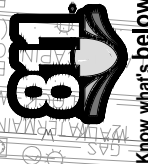
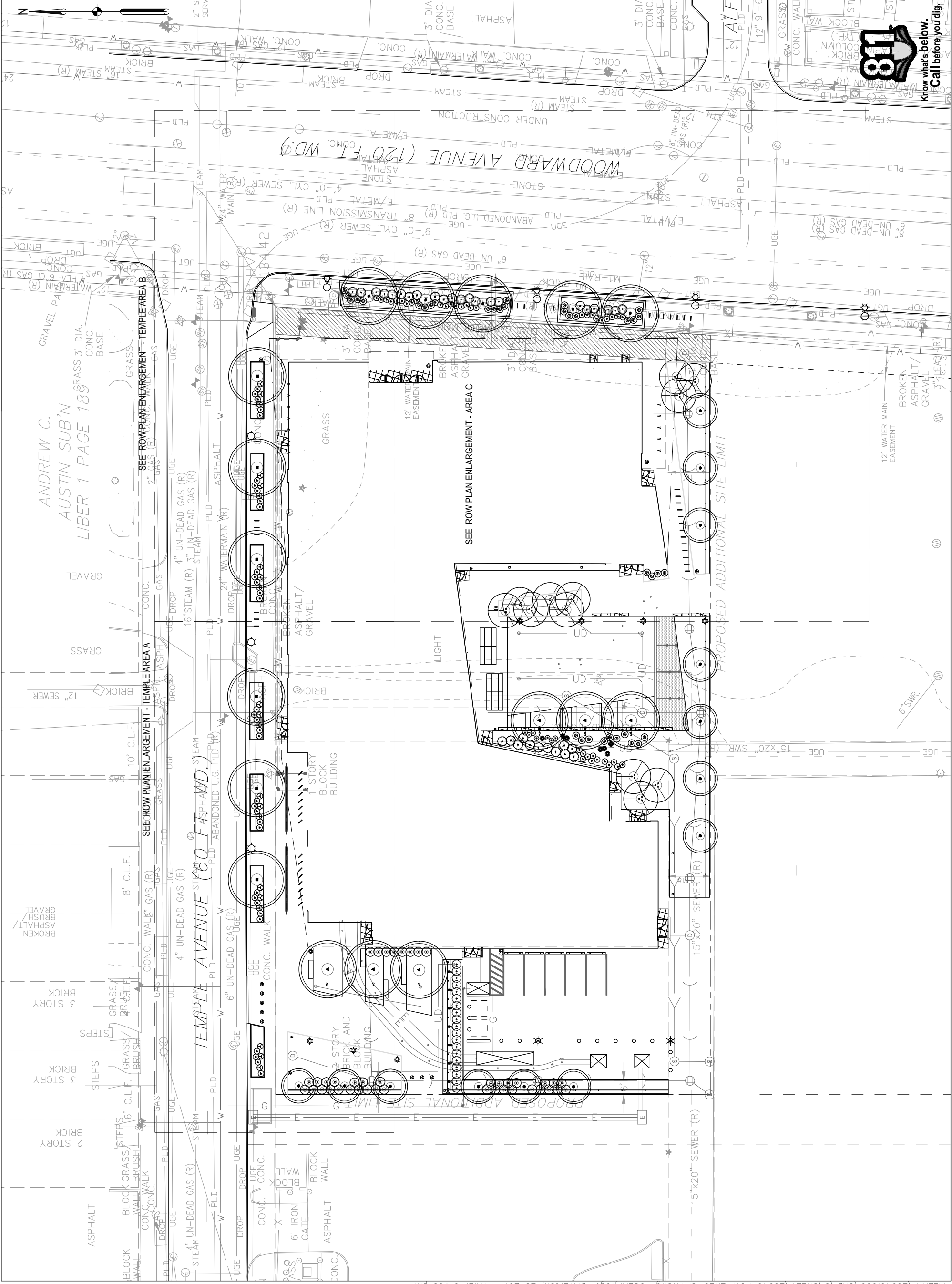
**WAYNE STATE UNIVERSITY
MIKE ILITCH SCHOOL OF BUSINESS**
2771 WOODWARD AVENUE
DETROIT, MI 48201-3012

**FACILITIES PLANNING &
MANAGEMENT BUILDING**
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www.facilities.wayne.edu

SMITHGROUP JJR
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SECOND FLOOR
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ROW OVERALL PLAN

DRAWING TITLE	ROW OVERALL PLAN
ISSUED WITH	
DRAWING REFERENCE	0' 20' 40'
SCALE	
DRAWING SCALE	
DATE	06-20-2017
PROJECT NAME	WSU MISB
PROJECT NUMBER	20940.000
DRAWING NUMBER	C1.0



Know what's below.
Call before you dig.



Mike Ilitch
School of Business
 WAYNE STATE UNIVERSITY
 MIKE ILITCH SCHOOL OF BUSINESS
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ROW PLAN
ENLARGEMENT -
TEMPLE AREA A

ISSUED WITH _____

DRAWING REFERENCE 0' 10' 20'
SCALE
 DRAWING SCALE

06-20-2017
 DATE

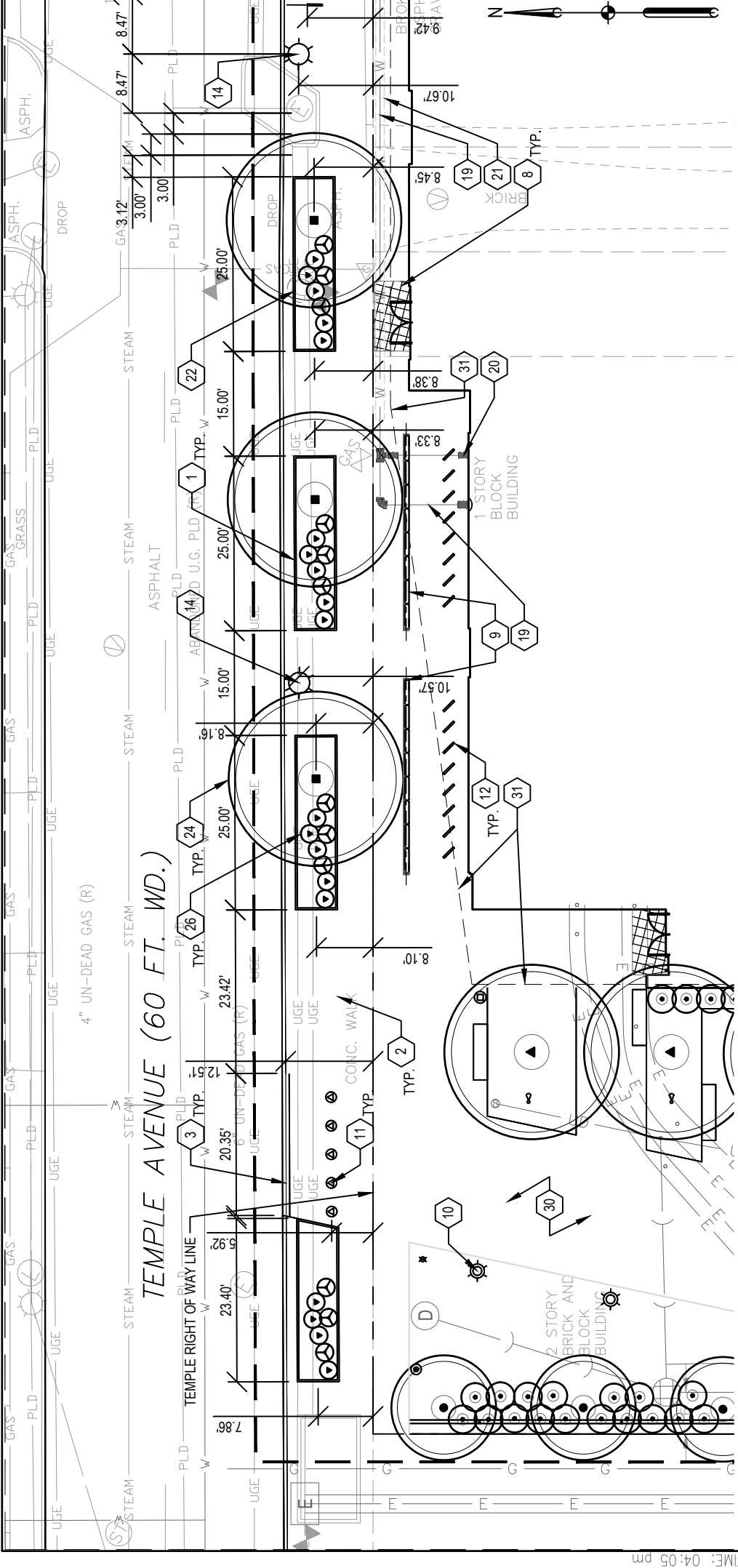
WSU MISB
 PROJECT NAME

20940.000
 PROJECT NUMBER

C1.1
 DRAWING NUMBER

KEYED NOTES

- 1 SITE CONSTRUCTION LIMITS
- 2 RIGHT OF WAY LINE
- 3 WATER EASEMENT LINE
- 4 TEMPLE STREET PLANTER C2.0 1-3
- 5 WOODWARD AVENUE PLANTER C2.1 1,2
- 6 MOUNTABLE CURB C2.1 3
- 7 TEMPLE CURB
- 8 WOODWARD CURB
- 9 HIGH CANOPY (EXTENDING FROM ROOF ABOVE 4TH FLOOR)
- 10 DETECTABLE WARNING STRIP, REFER TO MDOT R-28-J
- 11 FROST SLAB, SEE 16S2.2.1
- 12 BICYCLE SCREEN
- 13 PEDESTRIAN LIGHT, SEE 4/E7.0
- 14 REMOVEABLE BOLLARD C2.1 4
- 15 BIKE RACK C2.1 5
- 16 EXISTING DISTRICT STREET LIGHT
- 17 NEW DISTRICT STREET LIGHT
- 18 SERVICE AREA LIGHT
- 19 TEMPLE STREET CURB
- 20 BLUE LIGHT EMERGENCY POLE
- 21 TREE UPLIGHT
- 22 WATER SERVICE
- 23 3" GATE VALVE AND BOX C2.2 1
- 24 CASING PIPE SECTION C2.2 3
- 25 PROTECT EXISTING FIRE HYDRANT C2.2 2
- 26 STORM MANHOLE C2.2
- 27 STORM PIPE
- 28 TREE
- 29 SHRUBS
- 30 12' WIDE WATER MAIN EASEMENT
- 31 HEATED PEDESTRIAN CONCRETE PAVEMENT C2.1 6
- 32 PEDESTRIAN CONCRETE C2.1 7
- 33 VEHICULAR CONCRETE C2.1 8
- 34 LOW CANOPY (EXTENDS BETWEEN 1ST AND 2ND FLOORS)



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School of Business
 WAYNE STATE UNIVERSITY
MIKE ILITCH SCHOOL OF BUSINESS
 2771 WOODWARD AVENUE
 DETROIT, MI 48201-3012

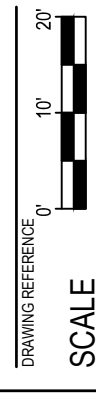
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ROW PLAN
ENLARGEMENT -
TEMPLE AREA B

DRAWING TITLE

ISSUED WITH



06-20-2017
 DATE

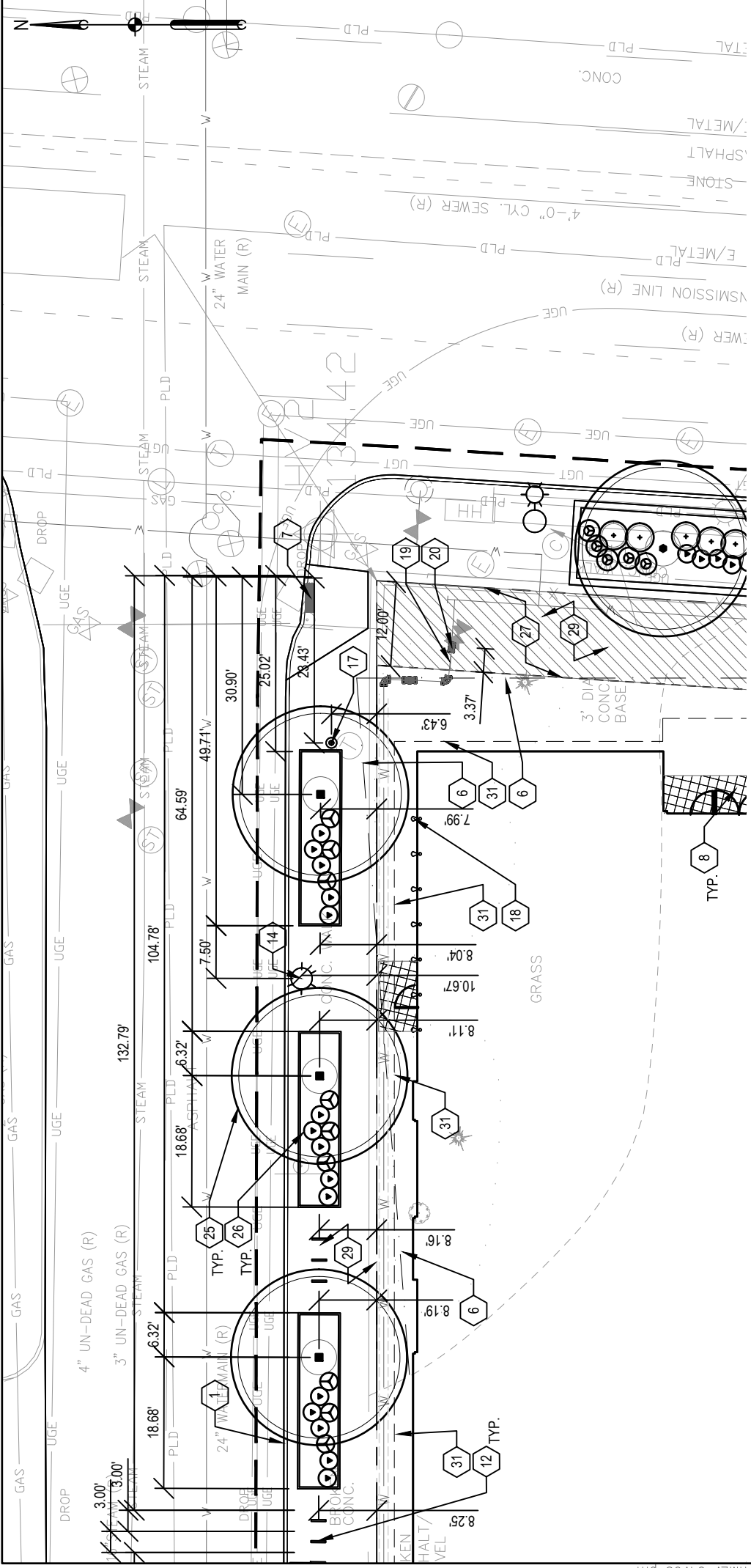
WSU MISB
 PROJECT NAME

20940.000
 PROJECT NUMBER

C1.2
 DRAWING NUMBER

KEYED NOTES

- SITE CONSTRUCTION LIMITS
- RIGHT OF WAY LINE
- WATER EASEMENT LINE
- 1-3 TEMPLE STREET PLANTER C2.0 C2.1
- WOODWARD AVENUE PLANTER 1.2 C2.1
- 3 MOUNTABLE CURB C2.1
- TEMPLE CURB
- WOODWARD CURB
- HIGH CANOPY (EXTENDING FROM ROOF ABOVE 4TH FLOOR)
- DETECTABLE WARNING STRIP, REFER TO MDOT R-28-J
- FROST SLAB, SEE 16/S2.2.1
- BICYCLE SCREEN
- PEDESTRIAN LIGHT, SEE 4/E7.0
- 4 REMOVEABLE BOLLARD C2.1
- 5 BIKE RACK C2.1
- EXISTING DISTRICT STREET LIGHT
- NEW DISTRICT STREET LIGHT
- SERVICE AREA LIGHT
- TEMPLE STREET CURB
- BLUE LIGHT EMERGENCY POLE
- TREE UPLIGHT
- WATER SERVICE
- 1 3" GATE VALVE AND BOX C2.2
- 3 CASING PIPE SECTION C2.2
- PROTECT EXISTING FIRE HYDRANT
- 2 STORM MANHOLE C2.2
- STORM PIPE
- TREE
- SHRUBS
- 12' WIDE WATER MAIN EASEMENT
- 6 HEATED PEDESTRIAN CONCRETE PAVEMENT C2.1
- 7 PEDESTRIAN CONCRETE C2.1
- 8 VEHICULAR CONCRETE C2.1
- LOW CANOPY (EXTENDS BETWEEN 1ST AND 2ND FLOORS)



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School of Business
 WAYNE STATE UNIVERSITY
 MIKE ILITCH SCHOOL OF BUSINESS
 2771 WOODWARD AVENUE
 DETROIT, MI 48201-3012

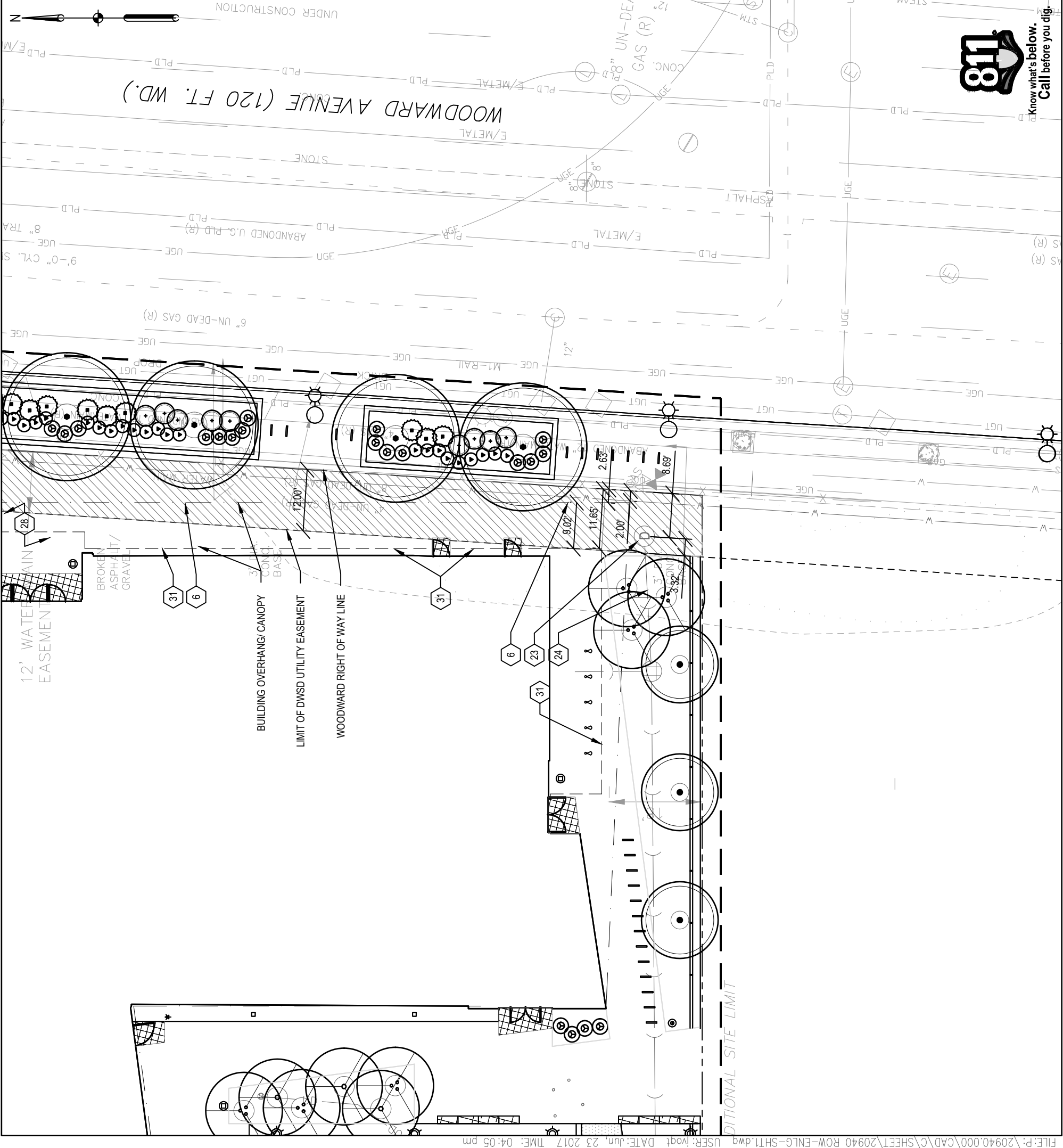
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ROW PLAN
ENLARGEMENT - AREA C

DRAWING TITLE _____
 ISSUED WITH _____
 DRAWING REFERENCE 0' 10' 20'
SCALE
 DRAWING SCALE _____
06-20-2017
 DATE _____
WSU MISB
 PROJECT NAME _____
20940.000
 PROJECT NUMBER _____
C1.3
 DRAWING NUMBER _____

KEYED NOTES	
	SITE CONSTRUCTION LIMITS
	RIGHT OF WAY LINE
	WATER EASEMENT LINE
	TEMPLE STREET PLANTER C2.0 1-3
	WOODWARD AVENUE PLANTER C2.1 1-2
	MOUNTABLE CURB C2.1 3
	TEMPLE CURB
	WOODWARD CURB
	HIGH CANOPY (EXTENDING FROM ROOF ABOVE 4TH FLOOR)
	DETECTABLE WARNING STRIP, REFER TO MDOT R-28-J
	FROST SLAB, SEE 16/S2.2.1
	BICYCLE SCREEN
	PEDESTRIAN LIGHT, SEE 4/E7.0
	REMOVEABLE BOLLARD C2.1 4
	BIKE RACK C2.1 5
	EXISTING DISTRICT STREET LIGHT
	NEW DISTRICT STREET LIGHT
	SERVICE AREA LIGHT
	TEMPLE STREET CURB
	BLUE LIGHT EMERGENCY POLE
	TREE UPLIGHT
	WATER SERVICE
	3" GATE VALVE AND BOX C2.2 1
	CASING PIPE SECTION C2.2 3
	PROTECT EXISTING FIRE HYDRANT
	STORM MANHOLE C2.2 2
	STORM PIPE
	TREE
	SHRUBS
	12' WIDE WATER MAIN EASEMENT
	HEATED PEDESTRIAN CONCRETE PAVEMENT C2.1 6
	PEDESTRIAN CONCRETE C2.1 7
	VEHICULAR CONCRETE C2.1 8
	LOW CANOPY (EXTENDS BETWEEN 1ST AND 2ND FLOORS)





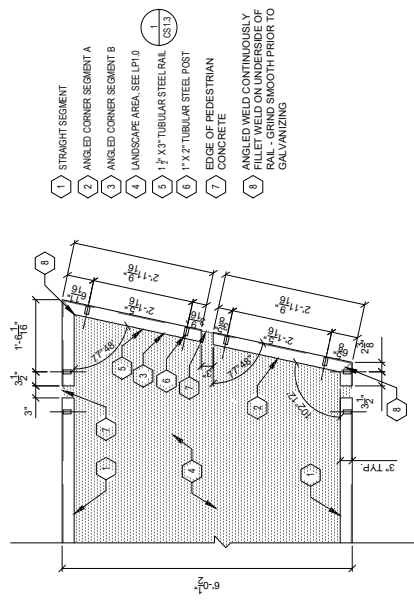
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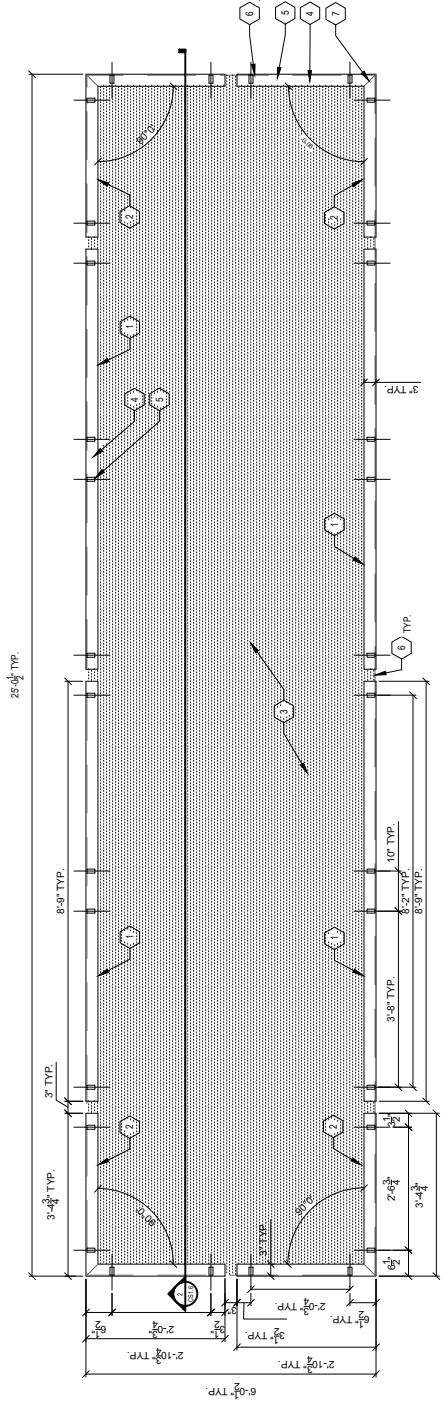
ROW DETAILS 1

DRAWING TITLE	
ISSUED WITH	
DRAWING REFERENCE	
SCALE AS NOTED	
DRAWING SCALE	
06-20-2017	DATE
WSU MISB	PROJECT NAME
20940.000	PROJECT NUMBER
C2.0	DRAWING NUMBER

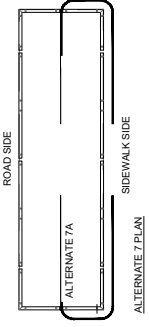


- 1 STRAIGHT SEGMENT
- 2 ANGLED CORNER SEGMENT A
- 3 ANGLED CORNER SEGMENT B
- 4 LANDSCAPE AREA, SEE LPI 0
- 5 1 1/2" X 2" TUBULAR STEEL RAIL
- 6 1" X 2" TUBULAR STEEL POST
- 7 CONCRETE
- 8 ANGLED WELD CONTINUOUSLY FILET WELD ON UNDERSIDE OF RAIL - GRIND SMOOTH PRIOR TO GALVANIZING

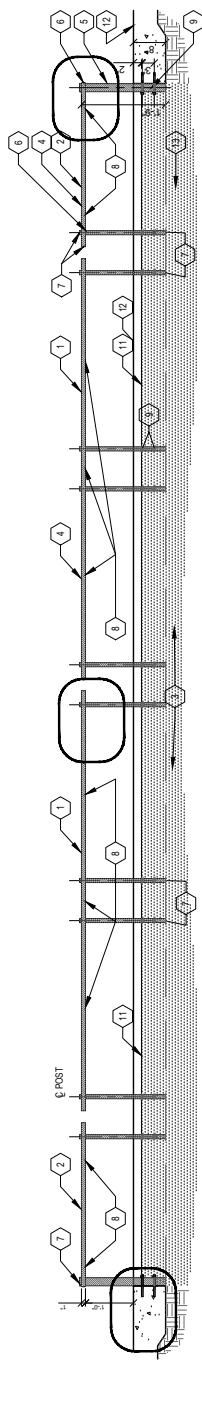
1 TEMPLE STREET PLANTER RAILING PLAN- ENTRY COURTYARD
 SCALE: 1/4" = 1'



- 1 STRAIGHT SEGMENT
 - 2 CORNER SEGMENT
 - 3 LANDSCAPE AREA, SEE LPI 0
 - 4 1 1/2" X 2" TUBULAR STEEL RAIL (CS13)
 - 5 1" X 2" TUBULAR STEEL POST
 - 6 EDGE OF PEDESTRIAN CONCRETE
 - 7 45° WELD
- METAL RAILING NOTES:
 ALL RAILING MATERIALS AND COMPONENTS SHALL BE MADE FROM STEEL TUBING.
 ALL WELDS SHALL BE CONTINUOUSLY FILET WELDED ON UNDERSIDE OF RAILING.
 RAILING SHALL BE SHOP PAINTED WITH THMEG ENDOUR SHIELD.
 HIGH PERFORMANCE PRIMER AND TOP COATING.
- METAL RAILING ALTERNATE 7A, 7B:
 1. ALTERNATE 7A TO INCLUDE RAILINGS ALONG SIDEWALK SIDE OF PLANTER ONLY (85% REDUCTION)
 2. ALTERNATE 7B TO REMOVE RAILINGS FROM SCOPE OF PROJECT.



2 TEMPLE STREET PLANTER RAILING PLAN - ALTERNATE NOS. 7A AND 7B
 SCALE: 1/4" = 1'



- 1 STRAIGHT SEGMENT
- 2 CORNER SEGMENT
- 3 LANDSCAPE AREA (CS13)
- 4 1 1/2" X 2" TUBULAR STEEL RAIL
- 5 1" X 2" TUBULAR STEEL POST
- 6 POST FRANCED THROUGH RAIL & CONTINUOUS WELD ON UNDERSIDE. GRIND WELD SMOOTH PRIOR TO GALVANIZING
- 7 STEEL CAP FOR STEEL RAILS AND POSTS AT ALL OPEN ENDS, CONTINUOUSLY FILET WELD. GRIND SMOOTH PRIOR TO GALVANIZING
- 8 2" DRAINAGE HOLES DRILLED ON BOTTOM OF RAIL 24" O.C.
- 9 7/8" DIA. X 8" GALVANIZED STEEL THREADED ROD WITH WASHERS AND NUTS, 24" O.C. PER POST. DRILLED AND INSTALLED WITH EPOXY
- 10 NEOPRENE WASHER BETWEEN POST AND CONCRETE
- 11 FINISH GRADE. LANDSCAPE BED SHALL BE 2" BELOW ELEVATION OF CONCRETE
- 12 FINISH GRADE PEDESTRIAN CONCRETE (CS13)
- 13 PLANTING SOIL MIX

3 TEMPLE STREET PLANTER RAILING SECTION - ELEVATION
 SCALE: 1/4" = 1'



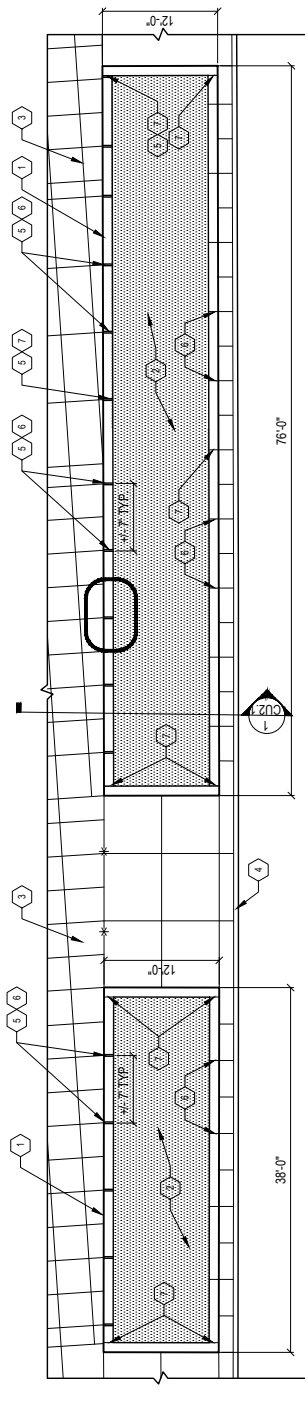
Mike Ilitch
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MIKE ILITCH SCHOOL OF BUSINESS
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 DETROIT, MI 48201-3012

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- 1 WOODWARD AVENUE PLANTER CURB (CS.19)
- 2 PLANT BED, SEE LPI 10
- 3 PEDESTRIAN CONCRETE (CS.13)
- 4 WOODWARD AVENUE CURB
- 5 1" DRAINAGE GAP ALIGNED WITH PEDESTRIAN CONTROL JOINT
- 6 CONSTRUCTION JOINT ALIGNED WITH PEDESTRIAN CONCRETE JOINTS, APX. 7' O.C.
- 7 EXPANSION JOINT

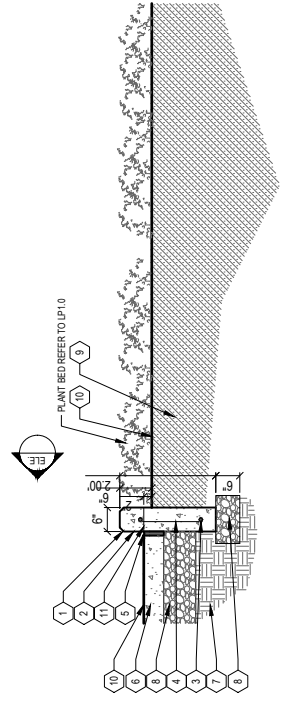
NOTE: EXPANSION JOINT ELEVATION OF DRAINAGE GAP TO MATCH ELEVATION OF PEDESTRIAN CONCRETE



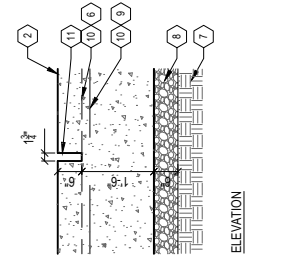
1 WOODWARD AVENUE PLANTER CURB PLAN
 SCALE: 1" = 20'

- 1 1" CHAMFER (BOTH SIDES)
- 2 CONCRETE CURB, CAST IN PLACE, BROOM FINISH
- 3 #4 HORIZONTAL BARS @ 12" O.C.
- 4 #4 VERTICAL BARS @ 12" O.C.
- 5 EXPANSION JOINT (CS.13)
- 6 PEDESTRIAN CONCRETE (CS.13)
- 7 SUBGRADE
- 8 BASE COURSE
- 9 BISHWALE SOIL MIX
- 10 FINISH GRADE
- 11 DRAINAGE GAP

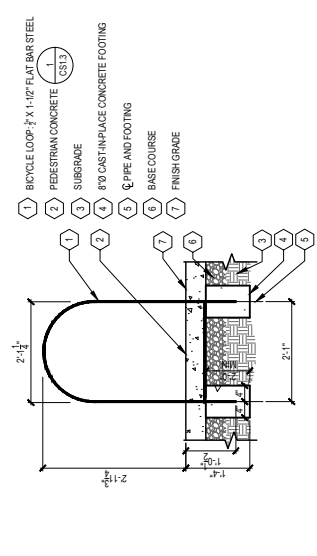
NOTES:
 PAINTING BED FINISHED GRADE TO BE 2" BELOW FINISH GRADE OF PEDESTRIAN CONCRETE



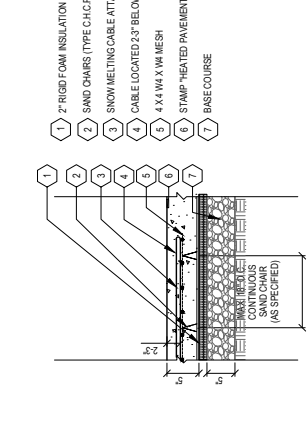
ELEVATION



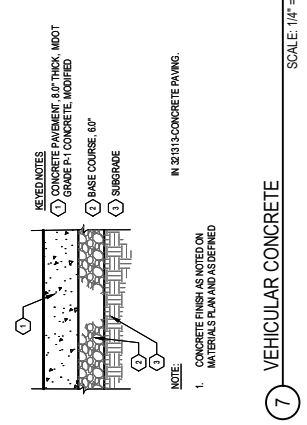
2 WOODWARD AVENUE PLANTER CURB SECTION
 SCALE: 1/4" = 1'



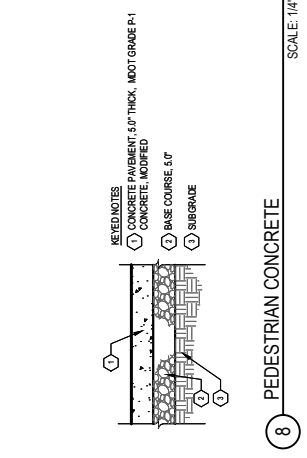
5 BIKE RACK
 SCALE: 1/4" = 1'



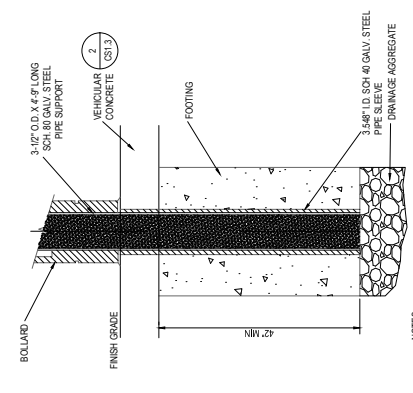
6 HEATED PEDESTRIAN CONCRETE PAVEMENT
 SCALE: 1/4" = 1'



7 VEHICULAR CONCRETE
 SCALE: 1/4" = 1'

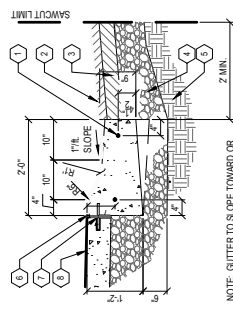


8 PEDESTRIAN CONCRETE
 SCALE: 1/4" = 1'



4 REMOVEABLE BOLLARD
 SCALE: 1/8" = 1'

- 1 #4 BAR CONTINUOUS
- 2 BITUMINOUS WEARING COURSE
- 3 BITUMINOUS LEVING COURSE
- 4 BASE COURSE
- 5 SUBGRADE
- 6 FINISH GRADE
- 7 EXPANSION JOINT (CS.13)
- 8 PEDESTRIAN CONCRETE (CS.13)



3 MOUNTABLE CURB
 SCALE: 1/4" = 1'

ROW DETAILS 2

DRAWING TITLE _____

ISSUED WITH _____

DRAWING REFERENCE _____

SCALE AS NOTED
 DRAWING SCALE _____

06-20-2017
 DATE _____

WSU MISB
 PROJECT NAME _____

20940.000
 PROJECT NUMBER _____

C2.1
 DRAWING NUMBER _____



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ROW DETAILS 3

DRAWING TITLE

ISSUED WITH

DRAWING REFERENCE

SCALE AS NOTED

DRAWING SCALE

06-20-2017

DATE

WSU MISB

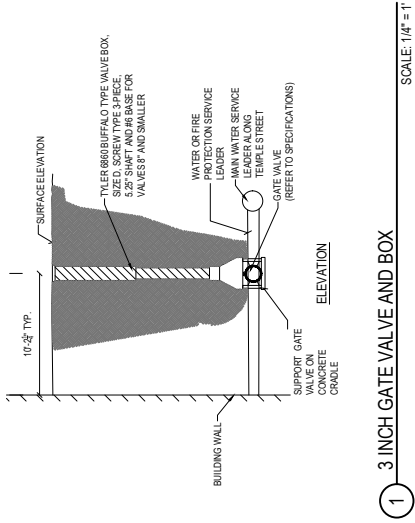
PROJECT NAME

20940.000

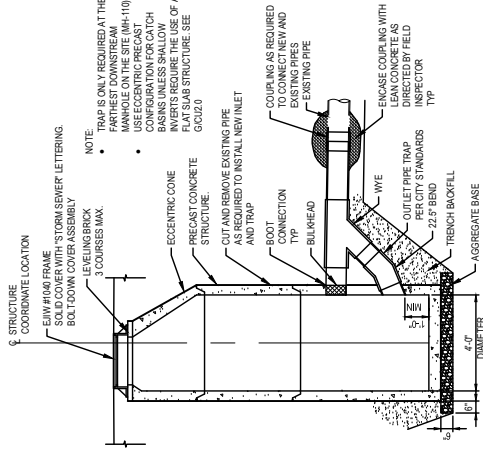
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C2.2

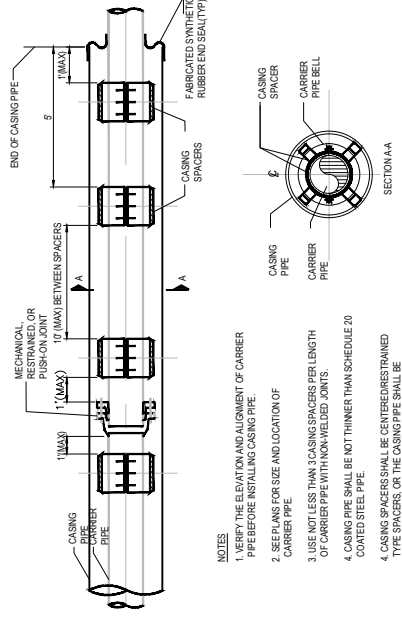
DRAWING NUMBER



1 3 INCH GATE VALVE AND BOX
 SCALE: 1/4" = 1"



2 STORM MANHOLE
 SCALE: 1/4" = 1"



- NOTES**
1. VERIFY THE ELEVATION AND ALIGNMENT OF CARRIER PIPE BEFORE INSTALLING CASING PIPE.
 2. SEE PLANS FOR SIZE AND LOCATION OF CARRIER PIPE.
 3. USE NOT LESS THAN 3 CASING SPACERS PER LENGTH OF CARRIER PIPE WITH NON-WELDED JOINTS.
 4. CASING PIPE SHALL BE NOT THINNER THAN SCHEDULE 20 COATED STEEL PIPE.
 5. CASING SPACERS SHALL BE CENTER RESTRAINED TYPE SPACERS OR THE CASING PIPE SHALL BE FILLED WITH BLOWN SAND OR FEA GRAVEL TO THE TOP OF THE CARRIER PIPE.

3 CASING PIPE SECTION
 SCALE: 1/4" = 1"