CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

COLEMAN A. YOUNG MUNICIPAL CENTER
2 WOODWARD AVE. SUITE 601
DETROIT, MICHIGAN 48226
PHONE: (313) 224-3949 TTY: 711
WWW.DETROITMI.GOV

To: Clerk's Office
From: The Department of Public Works
City Engineering Division
MapsandRecordsBureau@DetroitMI.Gov
(313) 224-3970

Petitioner:
Michigan Department of Transportation
1060 West Fort St.
Detroit, MI, 48226

On behalf of the above-mentioned petitioner the Department of Public Works: City Engineering Division is submitting a petition request for the below mentioned action. The petitioner has received a project consultation from the Department of Public Works: City Engineering Division and has been advised the following:

Type of action recommended:

Petition for encroachment of below grade fiber optics conduit into the eastbound service drive of I-96, north of Michigan Avenue.

Jered Dean
Manager II
Department of Public Works
City Engineering Division
313-224-3985

cavnue

www.cavnue.com

April 1, 2022

City of Detroit
Right of Way
Management

**Dear Mm or Sir,**

Please receive this letter in support of our encroachment petition application with the City of Detroit. Below is a description of the work being proposed and an introduction to our company's development work in Michigan that serves as background to this petition application.

This petition applies specifically to a proposed directional bore conduit to be installed across EB Jeffries Service Drive and that will be used to physically connect fiber optic cables between MDOT and 123Net! infrastructure. The conduit will begin at a new MDOT standard hand hole which will be installed at the northeast quadrant of the US-12 @ EB Jeffries Service Drive intersection (MDOT ROW). From there, the conduit path will extend into the City of Detroit's ROW and be routed west to cross the EB Jeffries Service drive to access the existing 123Net! hand hole located in the northwest quadrant of the US-12 @ EB Jeffries Service Drive intersection. Once the new conduit is installed, fiber optic cabling will be installed within the new conduit and fiber splicing work in the MDOT and 123Net! handholes will be made to connect the new fiber optic cable to existing cable.

The directional bore conduit relevant to this petition application is highlighted and dimensioned on the first page of our site plan drawings (revised version uploaded to the petition application).

A note about Cavnue's background:

The Michigan Department of Transportation (MDOT) and the State of Michigan have historically been leaders in innovative transportation technologies and projects, including the implementation of infrastructure and a regulatory environment to support both Connected Vehicle and Automated Vehicle (CAV) operations. As CAV technologies advance and become more widely adopted, MDOT and the larger industry have identified the need to advance infrastructure improvements that support the safe and efficient operation of CAVs in a well-coordinated Cooperative Automated Transportation System.

www.cavnue.com

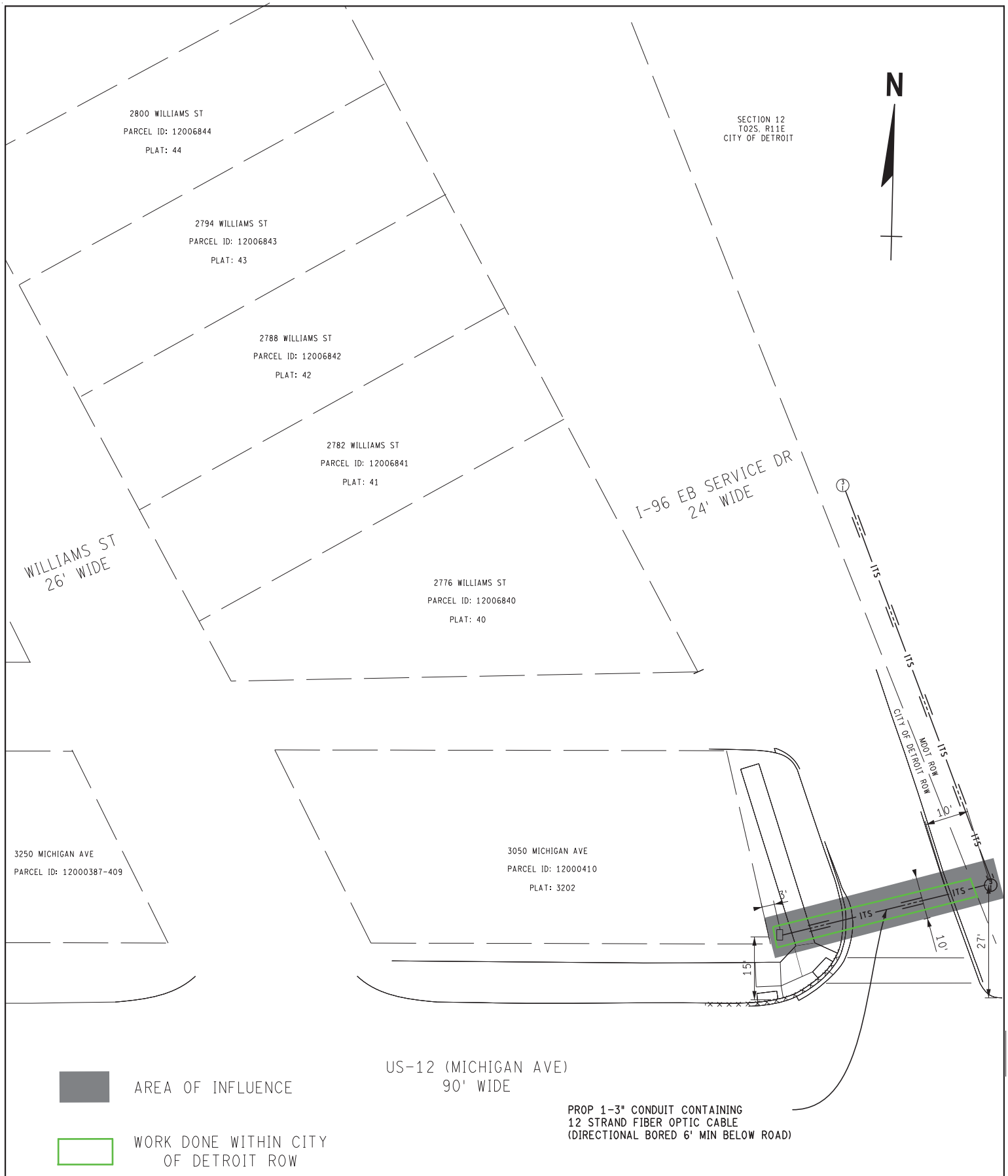
April 1, 2022

In April 2020, MDOT launched an open and competitive procurement process seeking a partner to advance development of a connected and automated vehicle corridor (the "CAV-C") that utilizes advanced infrastructure and technologies to serve as a catalyst for the deployment of CAVs. Following the evaluation of proposals, MDOT selected Cavnue, LLC ("Cavnue") to serve as the master developer for the project.

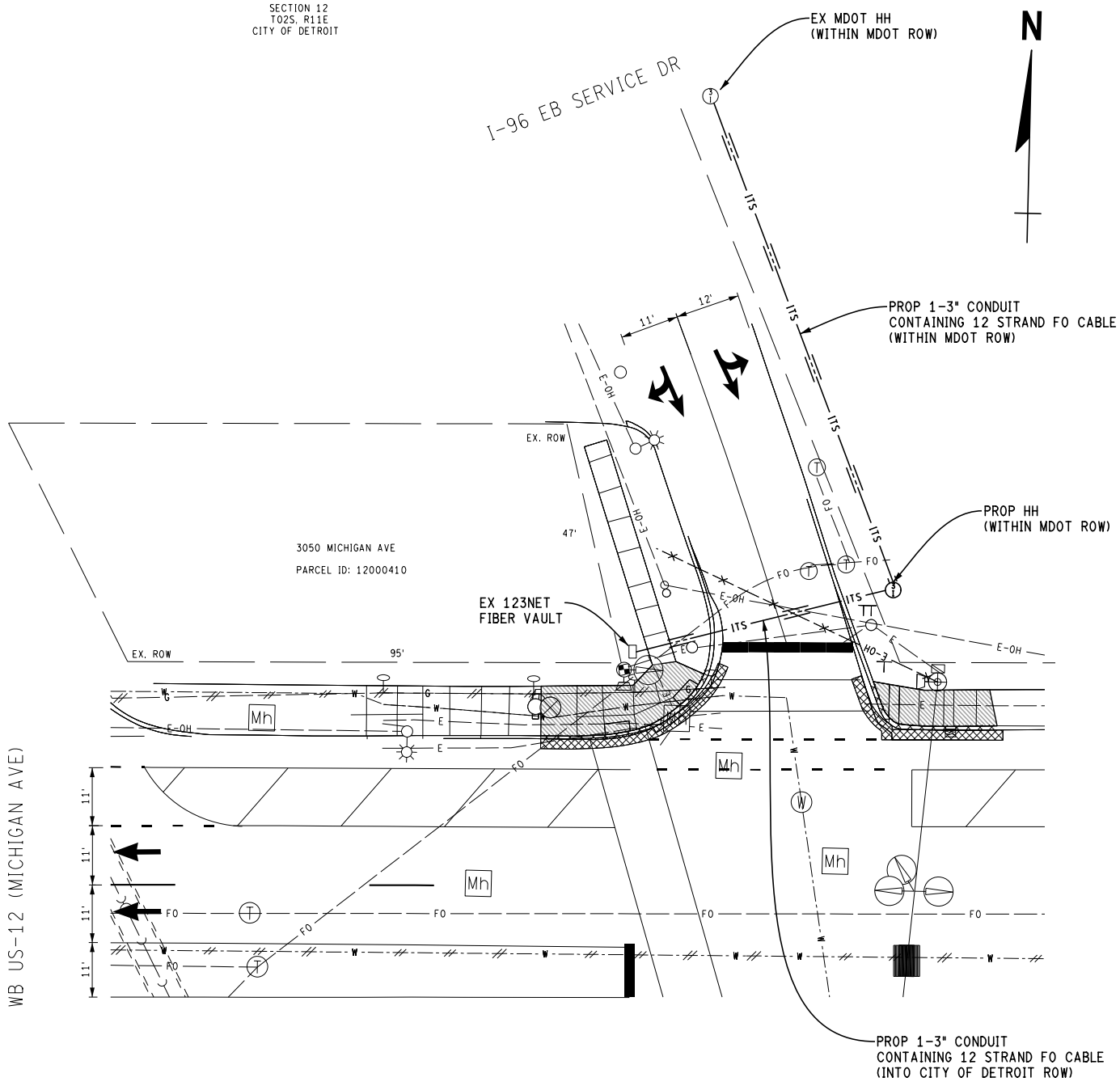
The work we are proposing to complete upon approval of this application marks an important step in Cavnue's engineering development of CAV technologies. Should you have any additional questions or comments, please do not hesitate to contact me.

Best,

Laila Mattos
Cavnue LLC
650-575-9483
laila@cavnue.com




| | | | | |
|---|---|---|---|---|
| MDOT Michigan Department of Transportation | 0 HORZ. (FT) 30 | DESIGN UNIT: | TSC: | DATE: 03/24/22 |
| | | CS: | CAVNUE / MDOT ENCROACHMENT PERMIT | DRAWING / SHEET / ROW |
| | | JN: | AREA OF INFLUENCE OVERVIEW MAP | |
| FILE: | | | | |




| | | | | |
|---|---|---|---|---|
| MDOT Michigan Department of Transportation | 0 HORZ. (FT) 30 | DESIGN UNIT: | TSC: | DATE: 03/24/22 |
| | | CS: | CAVNUE / MDOT ENCROACHMENT PERMIT | DRAWING SHEET |
| | | JN: | CONDUIT / FIBER OPTIC CABLE INSTALL PLAN | ROW |
| FILE: | | | | |

| HORIZONTAL CLEARANCE | |
|---|---|
| BEHIND GUARDRAIL POSTS | 60" |
| FOUNDATIONS | 36" |
| OUTSIDE EDGE OF PAVED SHOULDER | 60" |
| BACK OF CURB | 24" |
| CONCRETE BARRIERS | 36" |
| RETAINING WALLS | 36" |
| PARALLEL UTILITY RUNS* | 24" |
| CENTERLINE OF DITCH | 36" |

## MINIMUM HORIZONTAL CONDUIT CLEARANCES

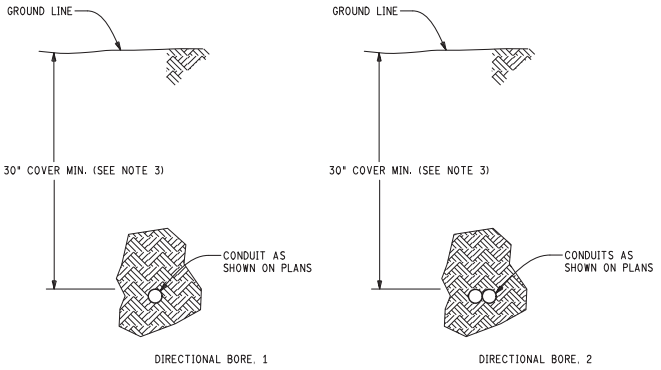
ALL CONDUIT INSTALLATION TO FOLLOW THESE MINIMUMS UNLESS OTHERWISE NOTED IN THE PLANS OR REQUIRED BY LOCAL UTILITIES. HORIZONTAL CLEARANCE IS MEASURED TO NEAREST EDGE OF CONDUIT.

*VERTICAL CLEARANCE OF 2' WILL BE ALLOWED IN PLACE OF HORIZONTAL CLEARANCE.

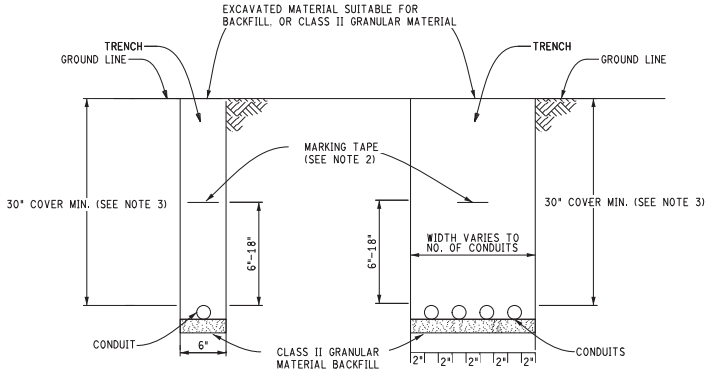
| VERTICAL CLEARANCE | |
|---|---|
| BELOW ROAD AND SHOULDER SURFACE | 72" |
| OVER/UNDER CULVERTS | 12" |
| UTILITY CROSSINGS | 24" |
| BOTTOM OF CONCRETE STRUCTURE | 120" |
| BELOW STREAM OR CREEK | 120" |
| BELOW SURFACE GRADE AT GUARDRAIL POSTS | 84" |

## MINIMUM VERTICAL CONDUIT CLEARANCES

ALL CONDUIT INSTALLATION TO FOLLOW THESE MINIMUMS UNLESS OTHERWISE NOTED IN THE PLANS OR REQUIRED BY LOCAL UTILITIES. VERTICAL CLEARANCE IS MEASURED TO NEAREST EDGE OF CONDUIT.




## DIRECTIONAL DRILLED, JACK-BORED, AND PLOWED-IN CONDUIT INSTALLATION




## DIRECT BURIAL CONDUIT/CABLE INSTALLATION

NOTES:

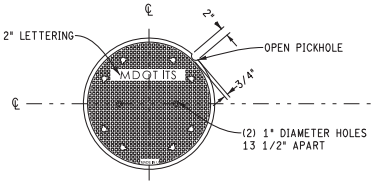
1. CONDUIT INSTALLATION LOCATION AND METHOD ARE SUBJECT TO ENGINEER APPROVAL PRIOR TO BEGINNING WORK.
2. MARKING TAPE SHALL HAVE PROPER LOGO AS SUPPLIED BY THE ENGINEER AND INSTALLED BY THE CONTRACTOR
3. THE MINIMUM COVER IS 30 INCHES. IN ADDITION, ALL CONDUIT INSTALLATION IS TO FOLLOW THE MINIMUM CONDUIT CLEARANCE TABLES UNLESS OTHERWISE NOTED IN THE PLANS OR IF ADDITIONAL CLEARANCE IS REQUIRED BY LOCAL UTILITIES.

| FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: ) | | | | | | | |
|---|---|---|---|---|---|---|---|
| NO. | DATE | AUTH | DESCRIPTION | NO. | DATE | AUTH | DESCRIPTION |
| | | | | | | | |
| | | | | | | | |

MDOT Michigan Department of Transportation

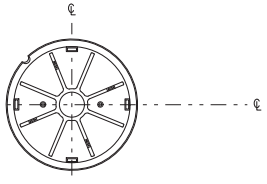
NO SCALE

| | | | | | |
|---|---|---|---|---|---|
| | DATE: | CS: | CONDUIT INSTALLATION | DRAWING | SHEET |
| PRINT DATE:02/28/2019 | DESIGN UNIT: | JN: | | | |
| FILE:Conduit_Install- 2-28-2019_ITS072A | TSC: | | SHEET 1 OF 1 | | |



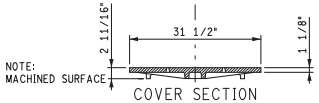

TOP VIEW OF COVER

NOT TO SCALE



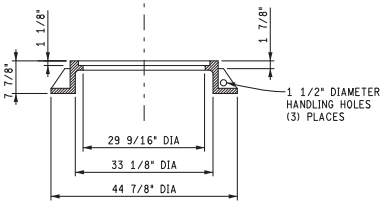
BOTTOM VIEW OF COVER

NOT TO SCALE



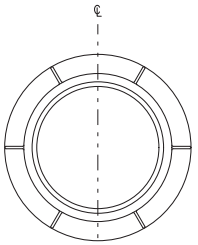

COVER SECTION

NOT TO SCALE



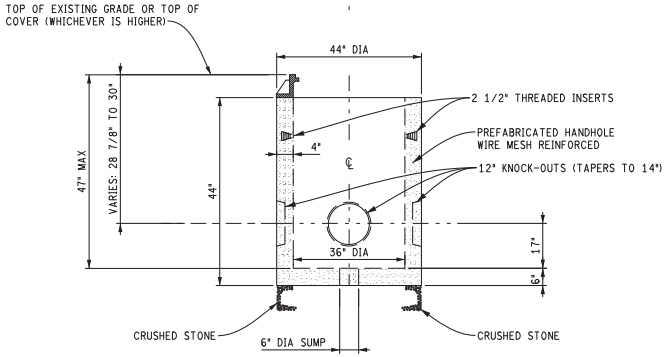

FRAME SECTION

NOT TO SCALE



TOP VIEW OF FRAME

NOT TO SCALE




36" DIAMETER ROUND HANDHOLE SECTION

NOT TO SCALE

NOTES:

1. PROVIDE HANDHOLE AND COVER MEETING THE REQUIREMENTS OF AASHTO HS 25 FOR WHEEL LOADING.
2. CURRENT COVER AND FRAME FOR 36" ROUND HANDHOLES ARE EAST JORDAN IRON WORKS PART NO. 1220 OR APPROVED EQUAL. A.S.T.M. CLASS 30 GRAY IRON. HEAVY DUTY. APPROX. WT. 685#.

| FINAL ROW PLAN REVISIONS ( SUBMITTAL DATE: ) | | | | | | | |
|---|---|---|---|---|---|---|---|
| NO. | DATE | AUTH | DESCRIPTION | NO. | DATE | AUTH | DESCRIPTION |
| | | | | | | | |

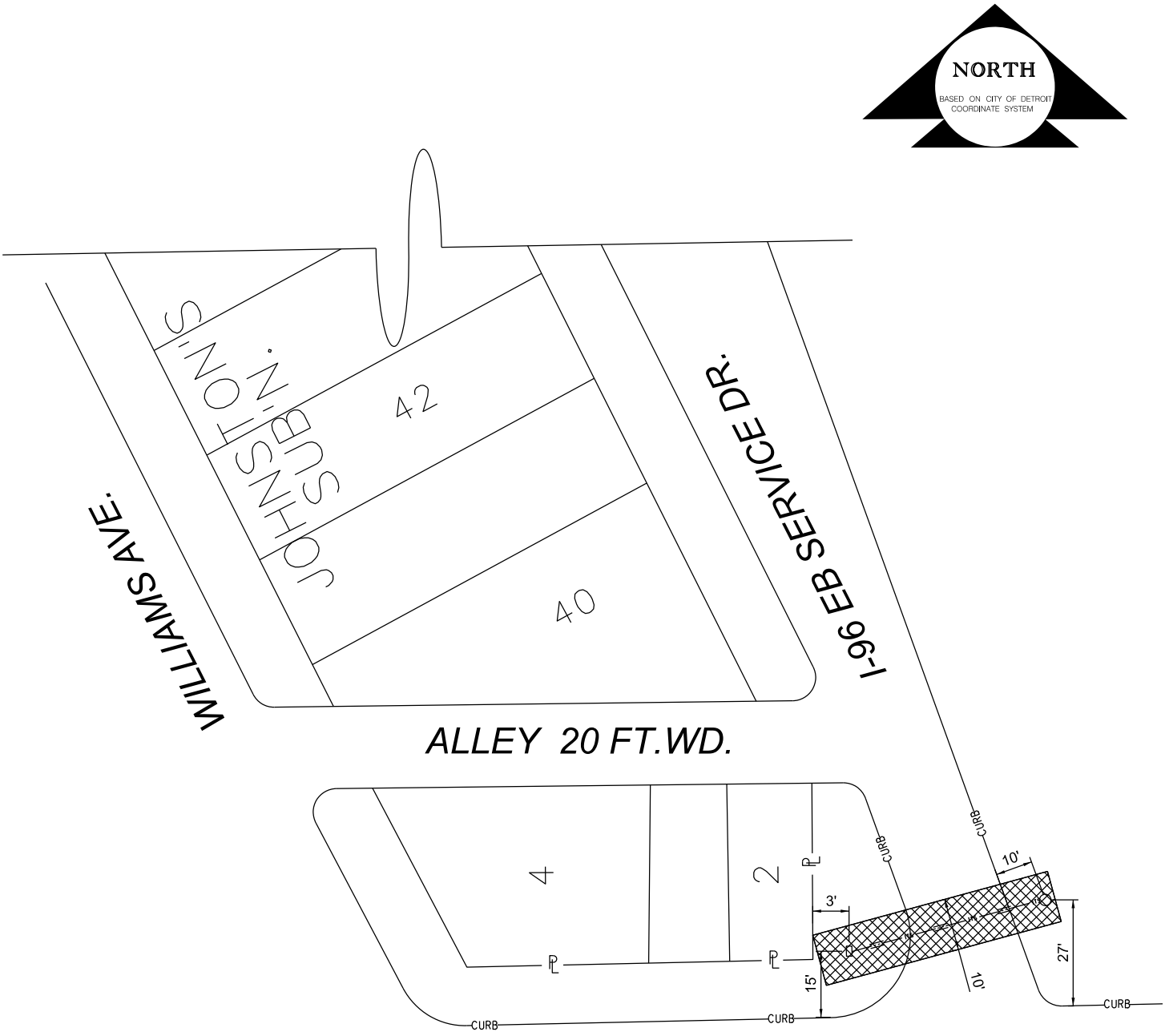
MDOT Michigan Department of Transportation

**NO SCALE**

| | | | |
|---|---|---|---|
| | DATE: | CS: | HANDHOLE, ROUND, 3 FOOT DIA. |
| PRINT DATE: 7/14/2016 | DESIGN UNIT: | JN: | |
| FILE: HH.Round.3ftdiam- 7-14-2016_ITS070A | TSC: | | SHEET 1 OF 1 |

| DRAWING | SHEET |
|---|---|
| | |

# MAP-22-22




LEGEND

- REQUEST ENCROACHMENT

ITS — - PROP 1-3" CONDUIT CONTAINING 12 STRAND FIBER OPTIC CABLE (DIRECTIONAL BORED 6' MIN BELOW ROAD)

(FOR OFFICE USE ONLY)

CARTO 19 E

| | | | | | |
|---|---|---|---|---|---|
| B | | | | | |
| A | | | | | |
| DESCRIPTION | | DRWN | CHKD | APPD | DATE |
| REVISIONS | | | | | |
| DRAWN BY SA | | CHECKED | | | |
| DATE 04/04/2022 | | APPROVED JD | | | |

REQUEST ENCROACHMENT
INTO I-96 EB SERVICE DR.
AT 3050 MICHIGAN AVE

CITY OF DETROIT
CITY ENGINEERING DIVISION
SURVEY BUREAU

JOB NO. 01-01

DRWG. NO.