


TO: City Engineering Division, DPW
900 Cadillac Tower Building
65 Cadillac Square
Detroit, Michigan 48226-2873
Survey Bureau: 313-224-3970
Fax: 313-224-3471

Ref. No. 201501023
Petition No. 520

The proposed change in property (referred to above) would affect our services as follows:

- () Not Involved.
- () Involved; but asking you to hold action on this petition until further notice.
- () Involved; the nature of our services, and the estimated costs of removing and/or rerouting such services are:
- (X) Involved; have no objection to the requested encroachment into Shelby Ave. between W. Fort St. and W. Lafayette Blvd. (with energy-passive groundwater recharge product) as shown in drawing no. x520 dated 1/22/2015 provided that the following conditions are met with:
 - (1) For any lane closures required for the installation of the groundwater recharge devices, the petitioner shall seek approval from Traffic Engineering Division prior to beginning the work.
 - (2) The grade shall be restored to its original condition after installation of the said devices and any holes made in the surface of the street shall be covered and made flush to the road surface.

Traffic Engineering Division - DPW
(Utility or City Department)

for Ashok Patel 
By _____

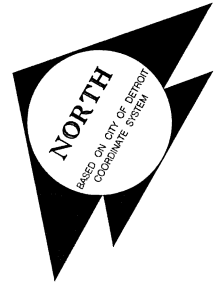
Head Transportation Engineer
Title

January 25, 2015
Date

313 224-1610
Area code-Telephone number

MA/ma

PETITION NO. 520
 PARJANA & PARJANA DISTRIBUTION
 1274 LIBRARY ST. SUITE 600
 DETROIT, MICHIGAN 48226
 C/O GREG McPARTLIN
 PHONE NO. 855 727-5262

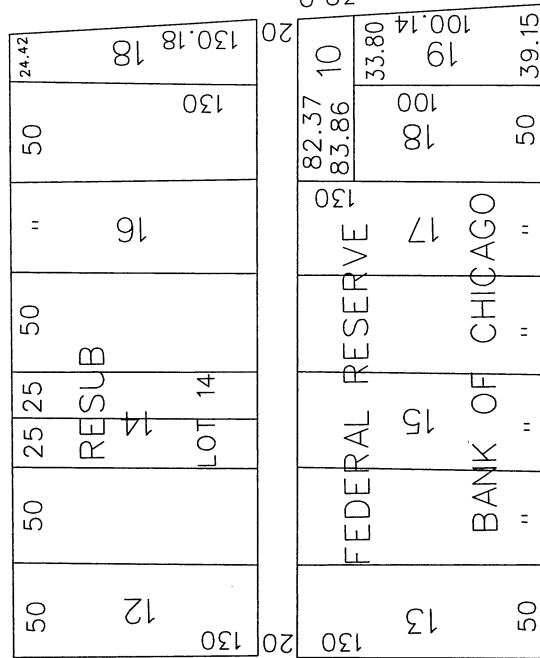


GRISWOLD AVE. 90 FT. WD.

Joe Kramer

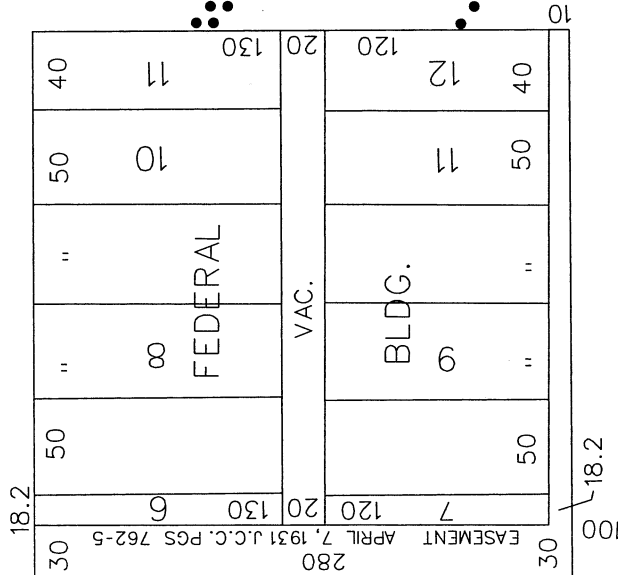
248-521-7572

W. LAFAYETTE BLVD. 80 FT. WD.



FORT ST. W. 100 FT. WD.

SHELBY AVE. 90 FT. WD.



WASHINGTON BLVD. 80 FT. WD.

- REQUEST ENCROACHMENT
 (With Energy-Passive
 Groundwater Recharge Product)

(FOR OFFICE USE ONLY)

CARTO 28 E

| | | | | | |
|-------------|--|----------|------|------|------|
| B | | | | | |
| A | | | | | |
| DESCRIPTION | | DRWN | CHKD | APPD | DATE |
| REVISIONS | | | | | |
| DRAWN BY | | CHECKED | | | |
| DATE | | APPROVED | | | |
| 01-22-15 | | | | | |

REQUEST ENCROACHMENT
 INTO SHELBY AVE. BETWEEN
 W. FORT ST. AND W. LAFAYETTE BLVD.
 (With Energy-Passive
 Groundwater Recharge Product)

| | |
|---|-------|
| CITY OF DETROIT CITY ENGINEERING DEPARTMENT SURVEY BUREAU | |
| JOB NO. | 01-01 |
| DRWG. NO. | X 520 |

EGRP Installation

| Line | Length (ft) | EGRP Device Lengths | | | Linear Feet | Caps |
|--------------|-------------|---------------------|----------|------------|-------------|------|
| | | 5' | 20' | 40' | | |
| A | 77 | 0 | 3 | 77 | 45 | |
| B | 50 | 0 | 3 | 50 | 1 | |
| C | 0 | 0 | 0 | 0 | 0 | |
| D | 0 | 0 | 0 | 0 | 0 | |
| E | 0 | 0 | 0 | 0 | 0 | |
| F | 0 | 0 | 0 | 0 | 0 | |
| G | 0 | 0 | 0 | 0 | 0 | |
| H | 0 | 0 | 0 | 0 | 0 | |
| I | 0 | 0 | 0 | 0 | 0 | |
| J | 0 | 0 | 0 | 0 | 0 | |
| Total | 0 | 0 | 0 | 127 | 46 | |

Note: 20' EGRP's and 40' EGRP's linear feet and caps is multiplied by 3 because there are 3 linked together.



LEGEND

- 5' EGRP
- ⊕ 10' EGRP
- ⊕ 20' EGRP
- ⊕ 40' EGRP
- Structure Border
- - - Sewer Line
- · - · Water Line
- ⊙ Tree
- ⊙ Water Well
- ⊙ Sump Pump
- ▨ Building
- ▨ Backfill
- ▨ Structure
- ▨ Landscaping
- ▨ Open Area

Address: Shelby St. Between W Fort St. & W Lafayette Blvd

Drawing Name: Bedrock Tunnel - Overview

Drawn By: P.N. Scale: 1"=16' Date: 11/24/2014

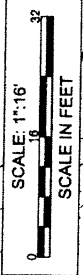
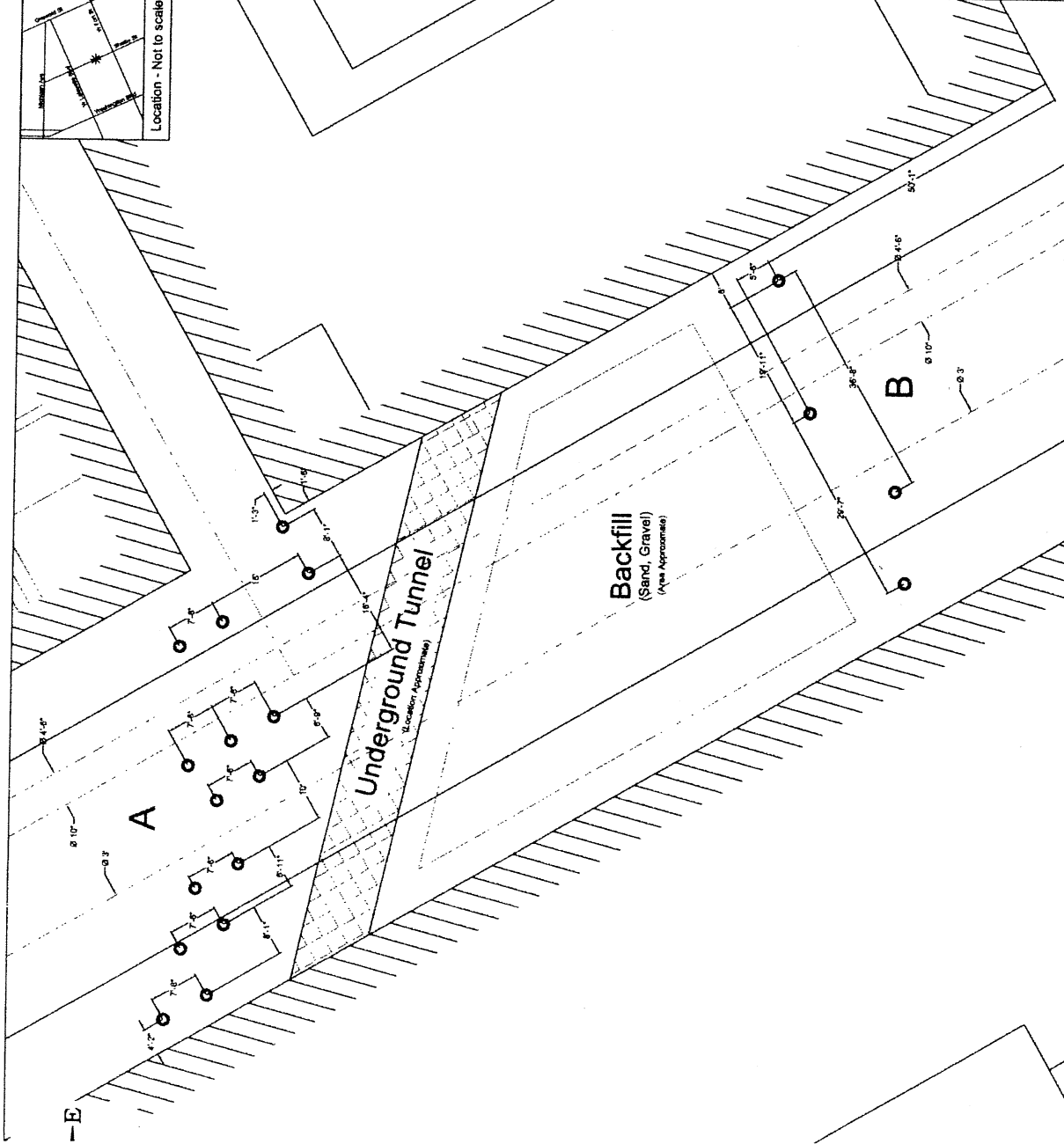
Parjana, Inc.

UTILITY NOTE:

All water main, storm sewer, sanitary sewer and public lighting utility as shown herein are taken from the best available records as disclosed by the various utility companies and/or municipalities. No guarantee can be given by Parjana as to the accuracy or completeness thereof, gas and electric company utility were unavailable at the time of issuance of this survey.

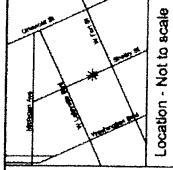
Note:

Boundary description as provided existing utilities above and below ground have not been verified.



offset minimum 42" from known pipelines

-E- Backfill
 (Sand, Gravel)
 (Area Approximate)



EGRP Installation

| Line | Length (ft) | EGRP Device Lengths | | | | Linear Feet | Caps |
|--------------|-------------|---------------------|----------|----------|-----------|-------------|-----------|
| | | 5' | 10' | 20' | 4' | | |
| A | 5 | | | | 4 | 20 | 2 |
| B | 5 | | | | 4 | 20 | 2 |
| C | 5 | | | | 4 | 20 | 2 |
| D | 5 | | | | 4 | 20 | 2 |
| E | 5 | | | | 4 | 20 | 2 |
| F | 5 | | | | 4 | 20 | 2 |
| G | 5 | | | | 4 | 20 | 2 |
| H | 5 | | | | 4 | 20 | 2 |
| I | 5 | | | | 4 | 20 | 2 |
| J | 5 | | | | 4 | 20 | 2 |
| TOTAL | 50 | 0 | 0 | 0 | 18 | 360 | 37 |

! Note: 20' EGRP's and 40' EGRP's linear feet and caps is multiplied by 3 because there are 3 linked together.

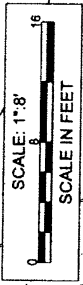
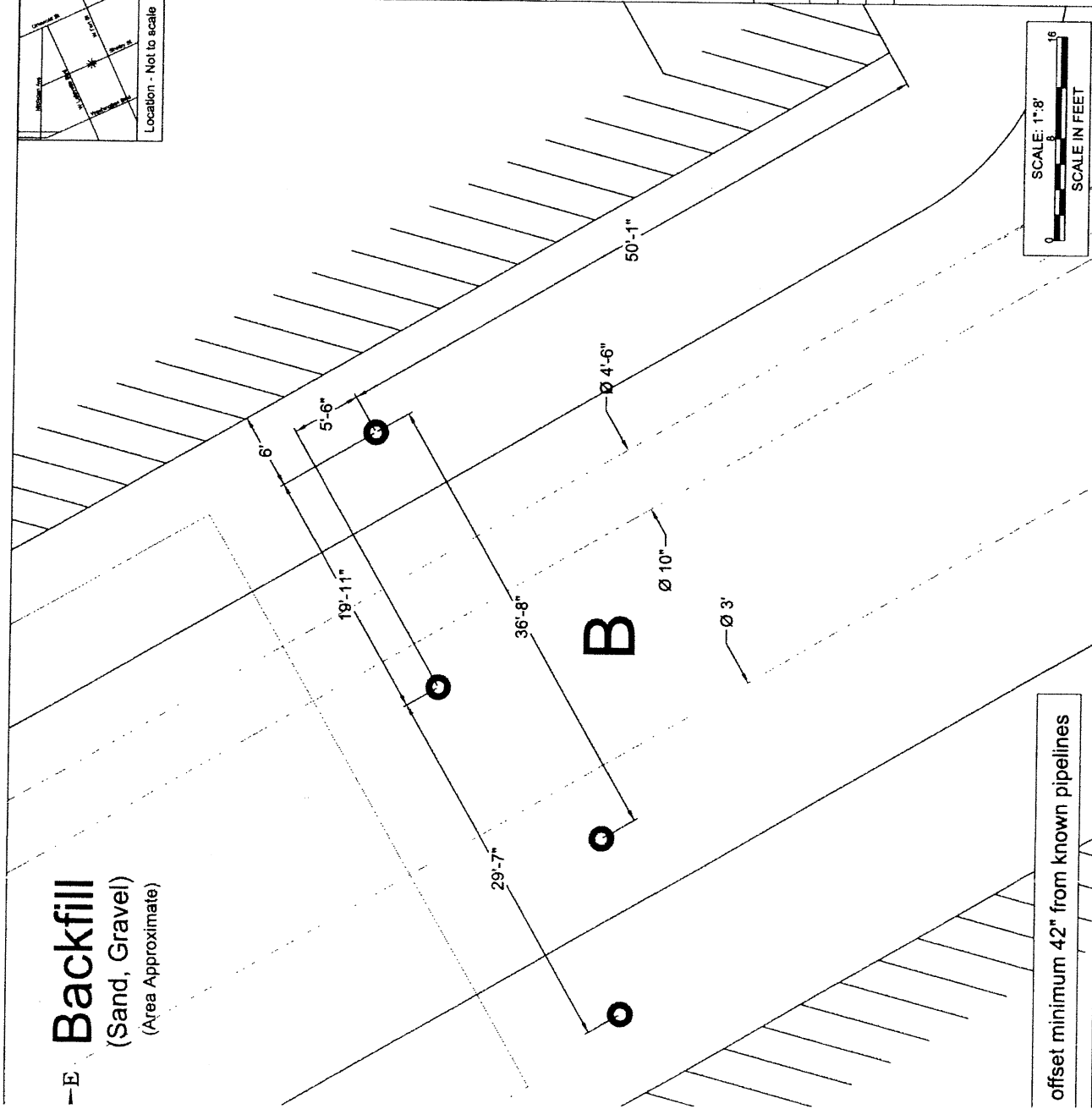
LEGEND

- 5' EGRP
- ⊕ 10' EGRP
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- ▨ Building Backfill
- ▨ Structure
- ▨ Landscaping
- ▨ Open Area
- Structure Border
- - - Sewer Line
- - - Water Line
- ⊙ Tree
- ⊙ Water Well
- ⊙ Sump Pump

Address: Shelby St. Between W Fort St & W Lafayette Blvd
 Drawing Name: Bedrock Tunnel - B
 Drawn By: P.N. Scale: 1" = 8'
 Date: 11/24/2014
 Parjana, Inc.

UTILITY NOTE:
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Note:
 Boundary description as provided existing utilities above and below ground have not been verified.



offset minimum 42" from known pipelines



PARJANA*
& PARJANA Distribution

1274 Library Street, Suite 600, Detroit, MI 48226
855-Parjana (855.727.5262) Fax: 313.915.5448
Website: Parjana.com Email: info@parjanadistribution.com

520

January 12, 2015

Honorable Janice M. Winfrey
Office of the City Clerk, Room 200
200 Coleman A. Young Municipal Center
Detroit, MI 48226

Re: Petition to City Council

Your Honor;

Please accept this petition for work to be completed around an underground tunnel located on Shelby Street between West Fort Street and West Lafayette Boulevard. This will require the permission to close this section of Shelby St. to traffic during installation.

WHO: Parjana Distribution LLC of Detroit (1274 Library Street, Suite 600, 48226)

WHAT: To correct underground water flow issues which are causing water to infiltrate the underground tunnel connecting the Federal Building and the building previously known as the Federal Reserve Building.

WHERE: The underground tunnel on Shelby St. between W Fort St. and W Lafayette Blvd.

WHEN: Installation needs to take place as soon as possible to allow the Parjana System to acclimate.

SYNOPSIS: In order to mitigate the water infiltration problems, Parjana Distribution plans to drill a series of 4-inch diameter holes, at depths of 40 feet, through the street and into the soil surrounding the underground tunnel. Parjana Distribution will be responsible for patching these holes.

Attached are the project plans. For further information or questions pertaining to this project, please feel free to contact us:

Greg McPartlin
Parjana Distribution
(855) 727-5262

Thank you in advance for your prompt consideration.

Sincerely,

Greg McPartlin
Parjana Distribution LLC

SECTION 1: PRODUCT INFORMATION

Section 1: Product Information

1.1 TECHNICAL INFORMATION

Name: EGRP® (Energy-Passive Groundwater Recharge Product)

Base lengths: 5' (1.524 m), 10' (3.048 m), 20' (6.096 m) & 40' (12.192 m)

Diameter: 1 1/4" (31.75 mm)

Color: Natural Transparent Clear, Colorless

Material: Polyethylene per Parjana®, Inc.'s specifications

Material characteristics:

- Non-reactive with environment
- Excellent corrosion and abrasion resistance
- Working temperature -20 °F to 180 °F (-29 °C to 82 °C)
- Izod strength rating of 1.5 lbf / in- (10,342 N / m-)

1.2 PRODUCT DESCRIPTION

The EGRP®, Energy-Passive Ground Water Recharge Product is a five chambered tubular extrusion. This product speeds infiltration of surface water into the soil reducing runoff during wet weather conditions and evaporation during dry seasons by distributing water particles horizontally within the layers of the soil. It rebalances nature by mimicking the natural ground in areas where infrastructures have created impervious surfaces that disrupt natural absorption. It may be cut to specified lengths and bundled for high flow requirements. This product is a long-term solution, minimally invasive, self-cleaning, maintenance free and does not require an external energy source.