

Special City Council Meeting 6:00 PM, MONDAY, NOVEMBER 2, 2015 Conference Room Farmington City Hall 23600 Liberty St Farmington, MI 48335

SPECIAL MEETING AGENDA

1.	CALL	. TO	ORD)ER

Roll Call

- 2. APPROVAL OF REGULAR AGENDA
- 3. PUBLIC COMMENT
- 4. BOARDS AND COMMISSIONS
 - A. Consideration to Approve the Historical Commission Members' Resignations
- 5. PUBLIC SERVICES
 - A. Consideration to Accept Bids for Twin Valley Pump Station Improvements
- 6. ORCHARD LAKE TEN MILE PLACEPLANS PROJECT
 - A. Consideration to Accept the Orchard Lake-Ten Mile Roads PlacePlans Project
- 7. REDEVELOPMENT READY COMMUNITY
 - A. Consideration to Adopt Redevelopment Ready Community Resolution
- 8. PUD AMENDMENTS
 - A. Grand River-Halsted Plaza PUD Amendment

- **B.** Riverwalk of Farmington PUD Amendment
- 9. ECONOMIC AND COMMUNITY DEVELOPMENT PROJECT STATUS
 - 1. Economic and Community Development Project Status Update
- 10. RECREATION MASTER PLAN UPDATE
 - A. Recreation Master Plan Committee Appointments
- 11. COUNCIL COMMENT
- 12. CLOSED SESSION LAND ACQUISITION
- 13. ADJOURNMENT

Motion To Adjourn

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015 Reference Number (ID # 2048)

Submitted by: David Murphy, City Manager

<u>Description:</u> Consideration to Approve the Historical Commission Members' Resignations

Requested Action:

Move to accept the resignations of Jena Stacey, Marilyn Weimar, Maria Taylor and Jim Atkinson from the Farmington Historical Commission.

Background:

<< Enter Background or None>>

Agenda Review

Review:

David M. Murphy Completed 10/28/2015 1:39 PM City Manager Completed 10/28/2015 1:39 PM

City Council Pending 11/02/2015 6:00 PM

Updated: 10/28/2015 12:06 PM by Melissa Andrade

Page 1

From: Jena <iilstacey@shcglobal.net>

To: Bill Galvin

bgalvin@farmgov.com>, David Murphy
DMurphy@farmgov.com>

CC: Marilyn Weimar <marilyn33520@att.net>, Maria Taylor <2highlandsoles@gmai ...

Date: 10/22/2015 10:34 PM

Subject: Resignation

Dear Bill and David.

Please accept my formal resignation from the Historical Commission. I no longer believe that I can effectively contribute to the city of Farmington through this appointment. I believe that I can better serve my community in other capacities.

Regards,

Jena Stacey

Sent from my iPhone

David Murphy - Resignation

From: marilyn weimar <marilyn33620@att.nct>.

To: Bill Galvin

Spalvin@formgov.com>, "DMurphy@formgov.com" <DMurphy@formgo...

Date: 10/22/2015 10:54 PM

Subject: Resignation

Ce: Jena Stacey <jlstacey@sbcglobal.net>, Janie Gundlach <janiegundlach@gmai...

To B# Galvin and David Murphy,

Please accept my resignation from the Farmington Historical Commission

Sincerely,

Marilyn Wermar 33620 Hillorest Farmington, Michigan 48335

David Murphy - Resignation

From: Maria Taylor <2highlandsoles@gmail.com>

To: Marilyn Weimar marilyn33620@att.net, Jenna Stacey jlstacey@sbeglobal....

Date: 10/22/2015 11:09 PM

Subject: Resignation

To Bill Galvin, David Murphy, and the members of the Farmington Historical Commission:

Please accept my resignation from the Historical Commission. I remain appreciative of the opportunity to participate with the group; however, I feel that I am no longer able to simultaneously serve both the City of Farmington and the cause of historic preservation in our town.

Maria Taylor

Maria Taylor Assistant Editor, Michigan History Magazine Publicity Coordinator, Governor Warner Mansion

Zhighiand<u>soles@gmail.com</u>

<u>(2481 996-5**8**71</u>

David Murphy - FW: Resignation from Farmington Historical Commission

From: "Atkinson, Jim" <Jim.Atkinson@CookMedical.com>
To: "dinurphy@farmgov.cam" <dinurphy@farmgov.cam>

Date: 10/23/2015 8:08 AM

Subject: FW: Resignation from Farmington Historical Commission

From: Atkinson, Jim.

Sent: Friday, October 23, 2015 R:02 AM

To: 'Bgalv:n@farmgov.com'; 'dmurphy@farmgov.org'.

Cc: Janre Gundlach (rgundlach@sbcglobal.net); Jena Stacey (jistacey@sbcglobal.net);

sbemath@sbcglobal.net; keithgrattan@yahoo.com; Maria Taylor (2highlandsoles@gmail.com); Laura Myers.

(LMyers@locfederal.com); maxilyii weimar (marilyii33620@att.net); Atkinson, Jimi

Subject: Resignation from Farmington Historical Commission.

Effectively immediately, I am resigning from this City Commission. Jim Atkinson

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015 Reference Number (ID # 2049)

Submitted by: Chuck Eudy,

<u>Description:</u> Consideration to Accept Bids for Twin Valley Pump Station Improvements

Requested Action:

Motion to accept bids, and award bid to Bidigare Contractors Inc. located 7820 Chubb Road, Northville, MI. 48167 in the amount of \$739,869.00 for the Twin Valley Pump Station Improvements, and the motion to include a \$70,000.00 contingency budget (approximately 10%) for a total construction budget of \$809,856.00.

Background:

In conjunction with the city's consulting engineers Orchard Hiltz & McCliment (OHM), bids were solicited for the Twin Valley Pump Station Improvements.

OHM has conducted sewer flow studies at the current Twin Valley Pump Station. The existing Pump Station will not allow for the anticipated growth of the community in the area it services. OHM has recommended to replace the existing station with a larger Pump Station that will allow growth in its service district.

The bids were opened on Wednesday, October 28, 2015. A total of five (5) bids were received, they are listed below. OHM has reviewed the bid tabulations along with contractor work history and references. A recommendation to award will be presented at the November 2, 2015 meeting. If approved, work would begin late fall/early winter of 2015.

 Bidigare Contractors
 \$739,869.00

 Z Contractors
 \$811,223.00

 Lawrence M. Clark, Inc.
 \$808,627.00

 F & V Construction
 \$1,172,127.00

 RCL Construction
 \$925,950.00

Agenda Review

Review:

Chuck Eudy Pending

City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/29/2015 3:52 PM by Melissa Andrade

Page 1



ARCHITECTS. ENGINEERS. PLANNERS.

October 29, 2015

David Murphy City Manager City of Farmington 23600 Liberty Street Farmington, MI 48335

RE: Twin Valley Pump Station Improvements

Recommendation of Award OHM Job No. 0111-13-0030

Dear Mr. Murphy:

Sealed bids for the Twin Valley Pump Station Improvements were received and publicly read aloud at 1:00 p.m. on Wednesday, October 28, 2015 at the City of Farmington offices. Nine (9) prospective bidders obtained plans and specifications for the project. Proposals were received from five (5) bidders. Bids with as-checked results ranged from \$739,869.00 to \$1,179,806.00. The engineer's estimate for the project was approximately \$830,000.

We evaluated all five bidders, having familiarity with all five. In reviewing the bids, all information, including bond surety, statement of qualifications, and subcontractors listing, was provided. The lowest bid was received by Bidigare Contractors, Inc., located at 7820 Chubb Road, Northville, MI 48170 in the amount of \$739,869.00

It is felt that Bidigare Contractors, Inc. and their subcontractors are capable of performing the work based on past experience, referenced projects, and information provided with the statement of qualifications in the bid package. They have worked for the City in the past and performed well. Based on the submitted information, it is recommended that the City of Farmington Twin Valley Pumps Station Improvements contract be awarded to Bidigare Contractors, Inc. of Northville, MI in the amount of \$739,869.00 and the motion include a \$70,000.00 contingency budget (approximately 10%) for a total construction budget of \$809,856.00.

Should there be any questions, please contact this office at (734) 522-6711.

Sincerely, OHM Advisors

Matthew D. Parks, P.E.

cc: Chuck Eudy, Public Works Superintendent Jon Kramer, P.E., OHM Advisors

File

P:\0101_0125\0111130031_Twin_Valley_Metering_CONST\Correspondance\Recommendation of Award_10-30-15.docx

Bidigare Contractors, Inc. 7820 Chubb Rd. Northville, MI 48170

Lawrence M. Clarke, Inc. 50850 Bemis Rd. Belleville, MI 48111

Z Contractors, Inc. 5050 Design Lane Shelby Twp., MI 48315

RCL Construction Co., Inc. 777 W. Maynard Rd. Sanford, MI 48657

F & V Construction 2960 Lucerne Dr. SE Grand Rapids, MI 49546

5.A.b

			Phone: 248-735-	1113	Phone: 734-481-	1565	Phone: 586-625-8899		Phone: 989-687-7319		Phone: 616-977-4400	
Item		Estimated	Unit		Unit		Unit		Unit		Unit	₽
No.	Description	Quantity	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount (Text)
1)	Mobilization, Max. 5%	1 LS	\$30,000.00	\$30,000.00	\$35,000.00	\$35,000.00	\$37,000.00	\$37,000.00	\$45,000.00	\$45,000.00	\$55,000.00	\$55,000.00
2)	Traffic Control	1 LS	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00	\$5,500.00	\$5,500.00	\$10,625.00	\$10,625.00
3)	Erosion Sediment Control	1 LS	\$2,000.00	\$2,000.00	\$6,000.00	\$6,000.00	\$1,250.00	\$1,250.00	\$1,800.00	\$1,800.00	\$3,125.00	\$3,125.00 5
4)	Pulverize Drive	1260 SYD	\$4.00	\$5,040.00	\$9.00	\$11,340.00	\$2.50	\$3,150.00	\$3.45	\$4,347.00	\$7.00	\$8,820.00
5)	Sidewalk Removal	35 SYD	\$20.00	\$700.00	\$15.00	\$525.00	\$30.00	\$1,050.00	\$29.00	\$1,015.00	\$100.00	\$3,500.00
6)	Tree Removal	7 EA	\$700.00	\$4,900.00	\$900.00	\$6,300.00	\$300.00	\$2,100.00	\$690.00	\$4,830.00	\$800.00	\$5,600.00
7)	Clearing and Grubbing	1 LS	\$2,000.00	\$2,000.00	\$16,000.00	\$16,000.00	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00	\$10,000.00	\$10,000.00
8)	Metal Object Removal	1 LS	\$5,000.00	\$5,000.00	\$9,000.00	\$9,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$900.00	\$900.00
9)	Abandon 4" Force Main with Flowable Fill	160 FT	\$20.00	\$3,200.00	\$20.00	\$3,200.00	\$11.00	\$1,760.00	\$50.00	\$8,000.00	\$26.00	\$4,160.00
10)	Bulkhead 4" Force Main	3 EA	\$2,500.00	\$7,500.00	\$600.00	\$1,800.00	\$150.00	\$450.00	\$3,800.00	\$11,400.00	\$1,800.00	\$5,400.00 🚇
11)	Electrical Demolition	1 LS	\$10,000.00	\$10,000.00	\$6,000.00	\$6,000.00	\$1,000.00	\$1,000.00	\$1,800.00	\$1,800.00	\$19,800.00	\$19,800.00
12)	Station Grading, Access Drive	7 STA	\$1,000.00	\$7,000.00	\$1,200.00	\$8,400.00	\$1,500.00	\$10,500.00	\$2,900.00	\$20,300.00	\$900.00	\$6,300.00
13)	Station Grading, Site	1 LS	\$10,000.00	\$10,000.00	\$20,000.00	\$20,000.00	\$9,000.00	\$9,000.00	\$9,900.00	\$9,900.00	\$6,000.00	\$6,000.00
14)	1x3 Crushed Stone	1260 SYD	\$4.00	\$5,040.00	\$21.00	\$26,460.00	\$2.00	\$2,520.00	\$29.00	\$36,540.00	\$7.00	\$8,820.00
15)	8" Thick Concrete Apron	60 SYD	\$100.00	\$6,000.00	\$100.00	\$6,000.00	\$65.00	\$3,900.00	\$100.00	\$6,000.00	\$200.00	\$12,000.00
16)	4" Concrete Sidewalk	307 SFT	\$8.00	\$2,456.00	\$12.00	\$3,684.00	\$4.00	\$1,228.00	\$9.00	\$2,763.00	\$11.00	\$3,377.00
17)	6" Concrete Sidewalk	187 SFT	\$9.00	\$1,683.00	\$14.00	\$2,618.00	\$6.00	\$1,122.00	\$10.00	\$1,870.00	\$15.00	\$2,805.00
18)	6" IPS DR11 HDPE FM, Directional Drill	147 FT	\$175.00	\$25,725.00	\$150.00	\$22,050.00	\$169.00	\$24,843.00	\$308.00	\$45,276.00	\$200.00	\$29,400.00
19)	6" IPS DR11 HDPE FM, Open Cut	35 FT	\$175.00	\$6,125.00	\$100.00	\$3,500.00	\$175.00	\$6,125.00	\$140.00	\$4,900.00	\$190.00	\$6,650.00
20)	12" PVC Sanitary Sewer	55 FT	\$300.00	\$16,500.00	\$200.00	\$11,000.00	\$195.00	\$10,725.00	\$300.00	\$16,500.00	\$175.00	\$9,625.00
21)	Standard 4' Manhole	1 EA	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$10,000.00	\$10,000.00	\$6,600.00	\$6,600.00	\$9,500.00	\$9,500.00
22)	Manhole Bench Repair	2 EA	\$5,000.00	\$10,000.00	\$3,000.00	\$6,000.00	\$2,000.00	\$4,000.00	\$5,800.00	\$11,600.00	\$7,750.00	\$15,500.00
23)	Bypass Pumping	1 LS	\$5,000.00	\$5,000.00	\$30,000.00	\$30,000.00	\$15,000.00	\$15,000.00	\$60,000.00	\$60,000.00	\$36,000.00	\$36,000.00
24)	Topsoil, Seed and Mulch	250 SYD	\$15.00	\$3,750.00	\$6.00	\$1,500.00	\$7.00	\$1,750.00	\$8.00	\$2,000.00	\$20.00	\$5,000.00
25)	Mulch Blanket	250 SYD	\$5.00	\$1,250.00	\$5.00	\$1,250.00	\$7.00	\$1,750.00	\$7.00	\$1,750.00	\$10.00	\$5,000.00 8 \$2,500.00 8
26)	Pump Station	1 LS	\$450,000.00	\$450,000.00	\$450,000.00	\$450,000.00	\$542,000.00	\$542,000.00	\$500,759.00	\$500,759.00	\$789,399.00	\$789,399.00
27)	Allowance No. 1 – DTE Allowance	1 LS	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
28)	Allowance No. 2 – SCADA Allowance	1 LS	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00
	TOTAL BID AMOUNT		_	\$739,869.00	_	\$808,627.00	=	\$811,223.00	=	\$925,950.00	<u>-</u>	Attachment: bidtab 0.
	CORRECTIONS											bidt
1	Bidder's multiplication error was corrected.											∓
2	Bidder's summation error was corrected.											ner
1111			2000 1 101									chm
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CORRECTIONS

Bidder's multiplication error was corrected.

Bidder's summation error was corrected.

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015

Reference Number (ID # 2046)

Submitted by: Kevin Christiansen, Economic Community Development Director

<u>Description:</u> Consideration to Accept the Orchard Lake-Ten Mile Roads PlacePlans Project

Requested Action:

Move to accept the Orchard Lake-Ten Mile Roads PlacePlans Project as part of the City of Farmington Master Plan and Comprehensive Planning Program.

Background:

At the June 17, 2015 Orchard Lake and Ten Mile Roads PlacePlans Meeting, the final report and design proposal for the future redevelopment and enhancement of the Orchard Lake/Ten Mile Roads intersection area was presented to the cities of Farmington and Farmington Hills. The purpose of this item is to review the Plan and to accept it as part of the City of Farmington Master Plan and Comprehensive Planning Program. The Planning Commission reviewed and accepted the report at its October 12th meeting.

Attachment

Agenda Review

Review:

Kevin Christiansen Pending

City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/30/2015 10:35 AM by Melissa Andrade

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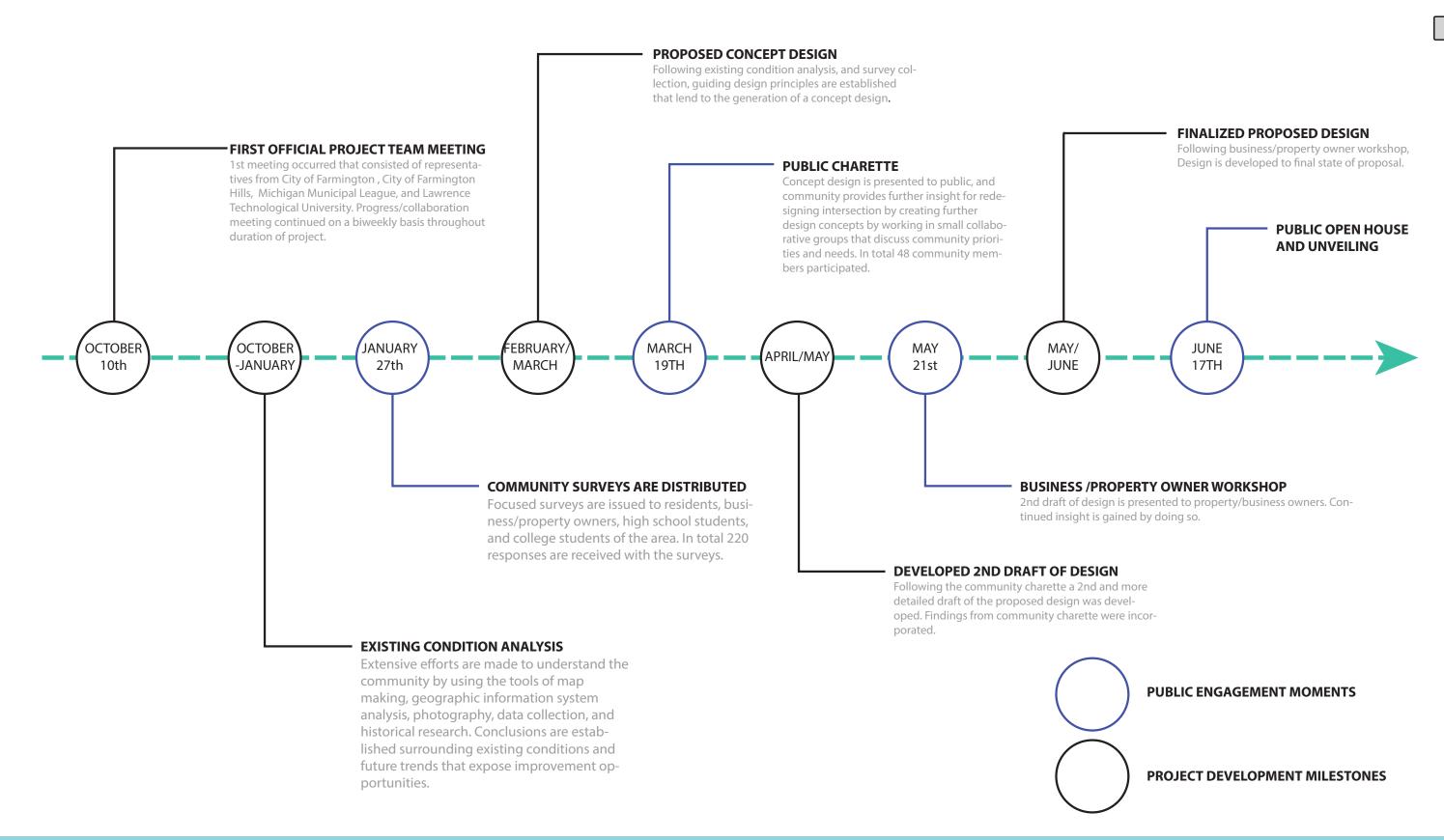
Project Introduction

National data and anecdotal evidence in Michigan is showing that people of all ages are looking for a style of living that includes quality physical design, walkability, transit options, arts and culture, diversity and a healthy natural environment. This style of living is often summed up as "quality of place." People, young and old alike, are choosing place first when deciding where to live and work. Now, more than ever, strategically investing in communities that are committed to creating quality places is a critical element of any economic development policy, and is central to the long-term success of Michigan.

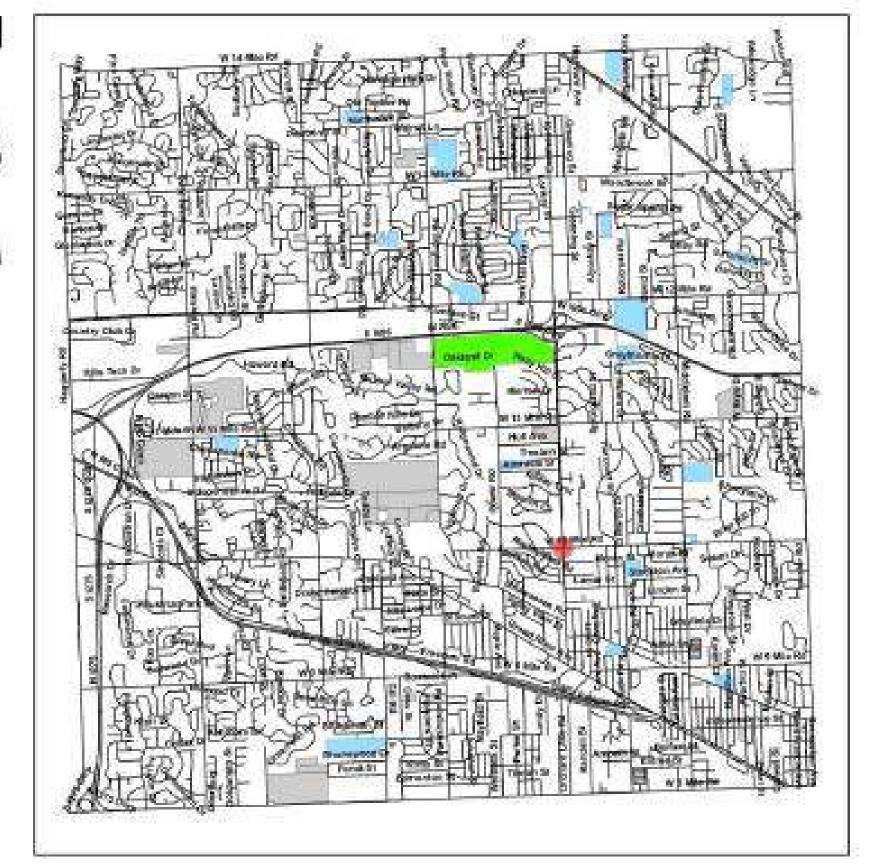
PlacePlans is a statewide program sponsored by the Michigan State Housing Development Authority, Michigan State University and the Michigan Municipal League (MML) and supports local projects focused on creating a community-driven vision for selected neighborhoods.

The Cities of Farmington Hills and Farmington submitted a PlacePlans application for the Orchard Lake and Ten Mile Road intersection. The Cities' project was selected and have been working in partnership with MML, Lawrence Technology University's Master of Urban Design program faculty and graduate students, and the Detroit Studio Community Outreach Program on this study.

This report is a documented account of both the research and design efforts that have been made in reimaginging a transformation of the Ten Mile and Orchard Lake Road intersection into a 'sense of place'.



LAND MANAGEMENT ANALYSIS

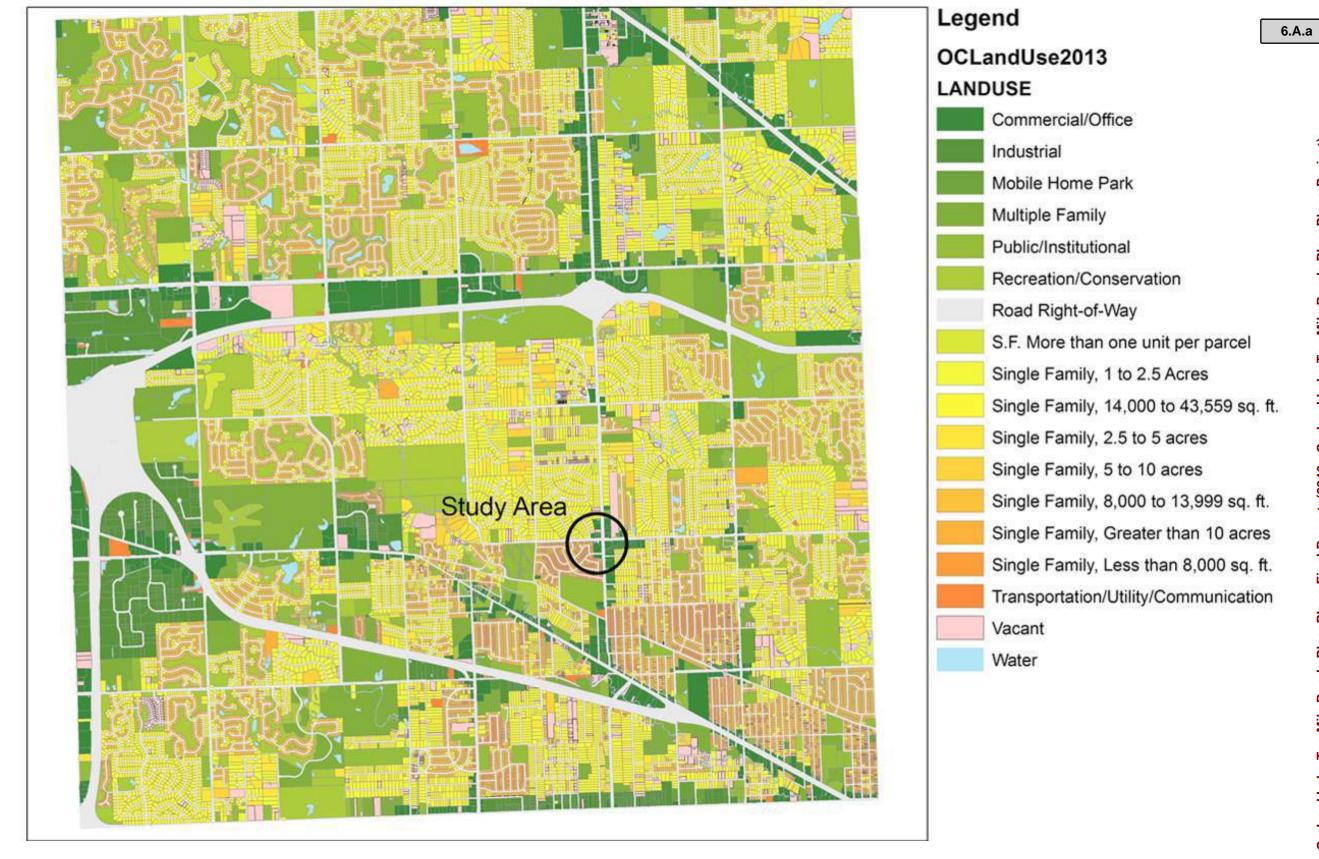




0 3,000 6,000 12,000 18,000 24,000 Feet

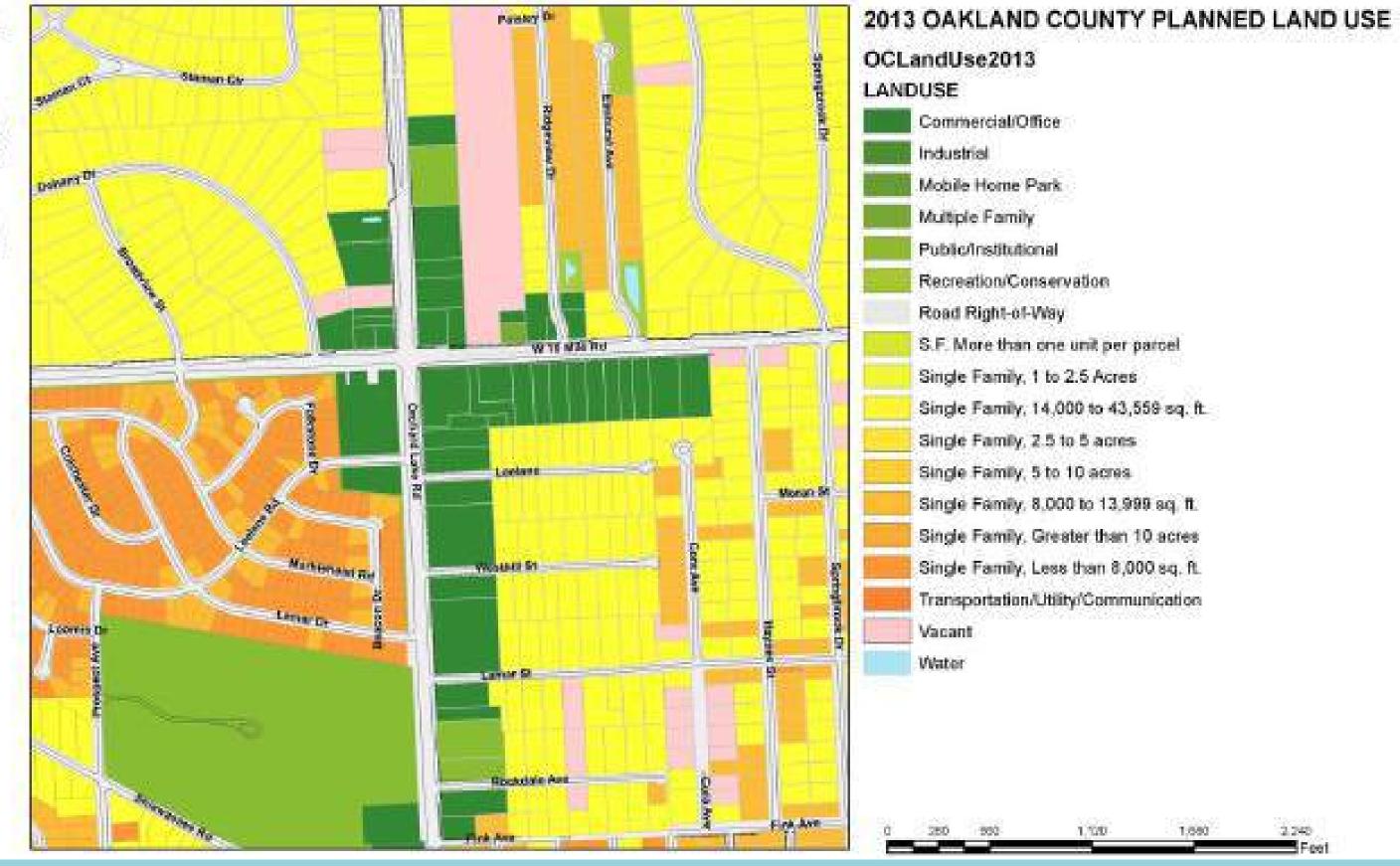
REGIONAL LAND OWNERSHIP

Of particular note is the quantity of land owned and operated by local educational institutes.



REGIONAL LAND USE

Investigating regional land use connections, it becomes apparent the study intersection is not a primary commercial hub of the city. If anything it is a heavy residential area, with some commercial use in the neighborhood.



LOCAL LAND USE

The focus area intersection is surrounded by residential land use. It is essential that proposed urban design plans strengthen interactions with these areas. Infill of vacant lots adjacent to 10 Mile and Orchard Lake Road could support proposal development of intersection.

BUILDING FABRIC ANALYSIS

Urban design efforts should integrate with the preexisting built context. For this reason analysis was conducted that resulted in observing typical building patterns for the area.



FIGURE-GROUND MAP

It appears majority of land property parcels express a relatively low land use density.



BUILDING HEIGHT MAPPING

No buildings within focus area exceed twenty six feet. Building lining streets fluctuate fall between eleven and twenty four feet in height.



BUILDING STORY MAPPING

Nearly all buildings in focus area are only one story.

CIRCULATIONANALYSIS

For this analysis there was interest in investigating what causes people to circulate, and what is the quality of existing motor, public, and pedestrian systems for doing so.



5-Yr ACS 2010

Percent

0.2% 5:5%

5.2%

4.9%

3.0%

2.7% 2.6%

2,5%

2.1% 50.0%

Percent

12.2%

10.3%

8:5%

0.1%

6.0%

5.3%

4,4%

2.6%

2.1%

28.8%

Workers

8,135

3,315

2.055

2,785

2,615

1,620

1,440

1,375

1,300

1,145

26,739

Workers.

610

510

425

305

300

265

220

140

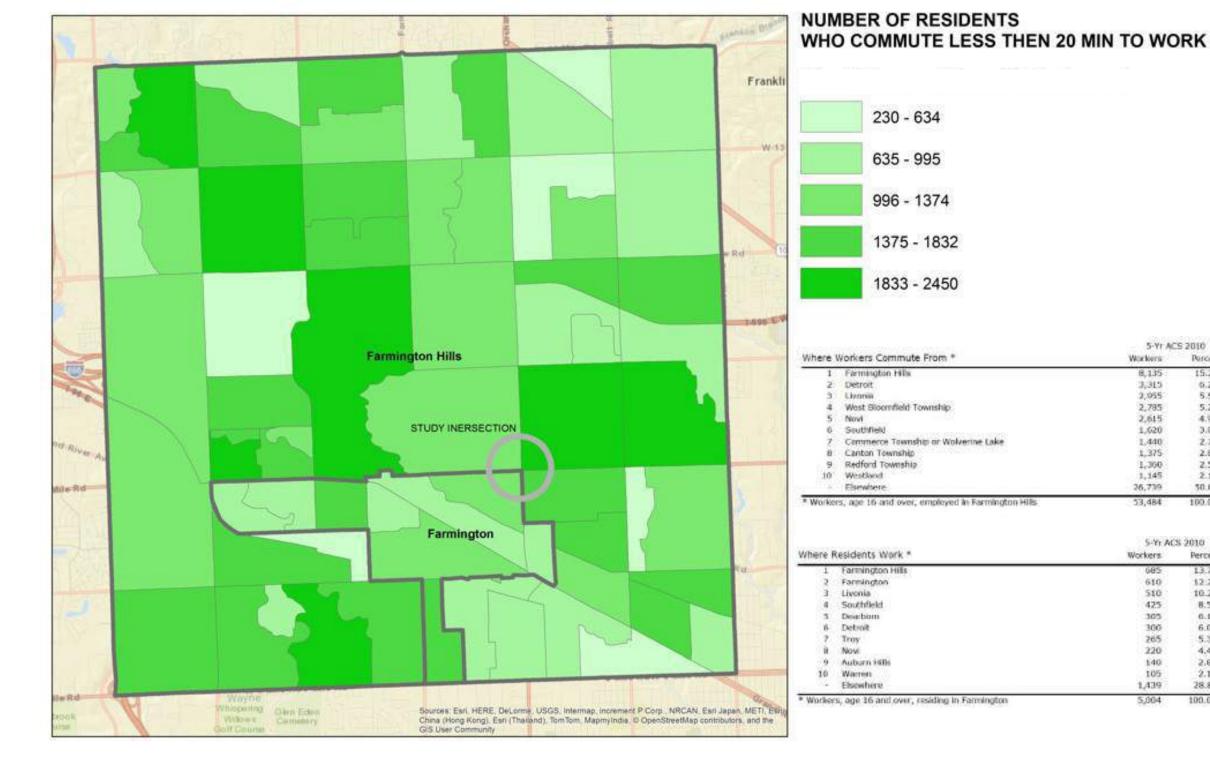
105

1,439

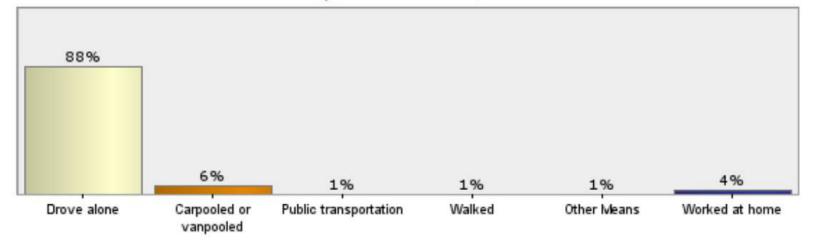
5-Yr ACS 2010

http://factfinder.census.gov/faces/nav pages/index.xhtml

SEMCOG Community Profiles, http://



Transportation to Work, 2010 *



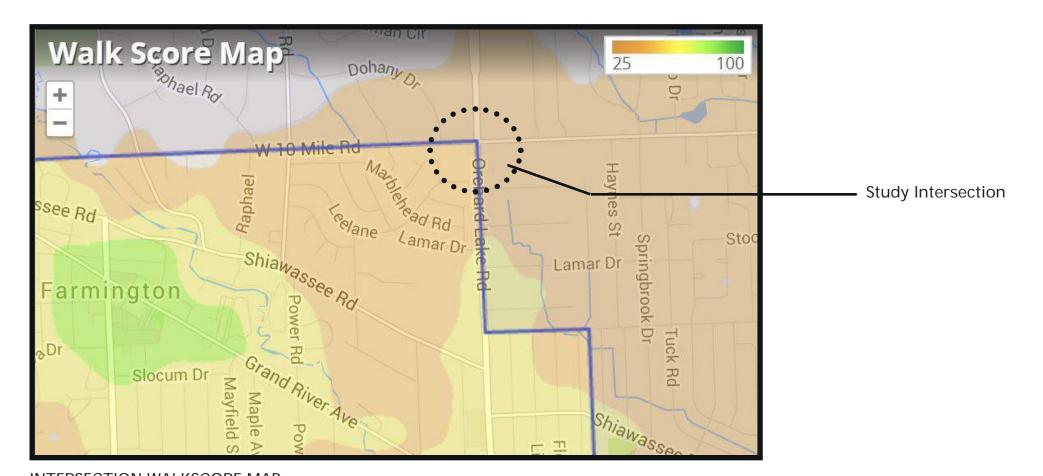
CIRCULATION: WA ABILITY

https://www.walkscore.com/MI/Farmi





REGIONAL WALKSCORE MAP



INTERSECTION WALKSCORE MAP

FOCUS AREA

500 1,000

2.000

3,000

4,000

Legend

Sidewalks

CIRCULATION:



20,573 (Current Year Estimate)

23,835 (Average Daily Traffic)

24,275 (Average Daily Traffic)

20,573 (Current Year Estimate) 2012 Traffic Count: 2008 Traffic Count: 23,835 (Average Daily Traffic) 24,275 (Average Daily Traffic) 2004 Traffic Count:

Site Information

Nearest cross street to the count:

W 10 Mile Rd

Direction from the count to the cross street:

South

Distance to the nearest cross street:

0.04 miles

23,640 (Current Year Estimate) 2012 Traffic Count: 24,552 (Average Daily Traffic) 2008 Traffic Count: 23,633 (Average Daily Traffic) 2004 Traffic Count:

Site Information

Nearest cross street to the count:

W 10 Mile Rd

Direction from the count to the cross street:

North

Distance to the nearest cross street:

0.04 miles



Site Information

2008 Traffic Count:

Nearest cross street to the count:

W 10 Mile Rd

Direction from the count to the cross street:

South

3

Distance to the nearest cross street:

0.04 miles

2012 Traffic Count: 13,921 (Current Year Estimate) 11,706 (Average Daily Traffic) 2008 Traffic Count: 11,997 (Average Daily Traffic) 2004 Traffic Count:

Site Information

Nearest cross street to the count:

Orchard Lake Rd

Direction from the count to the cross street:

West

Distance to the nearest cross street:

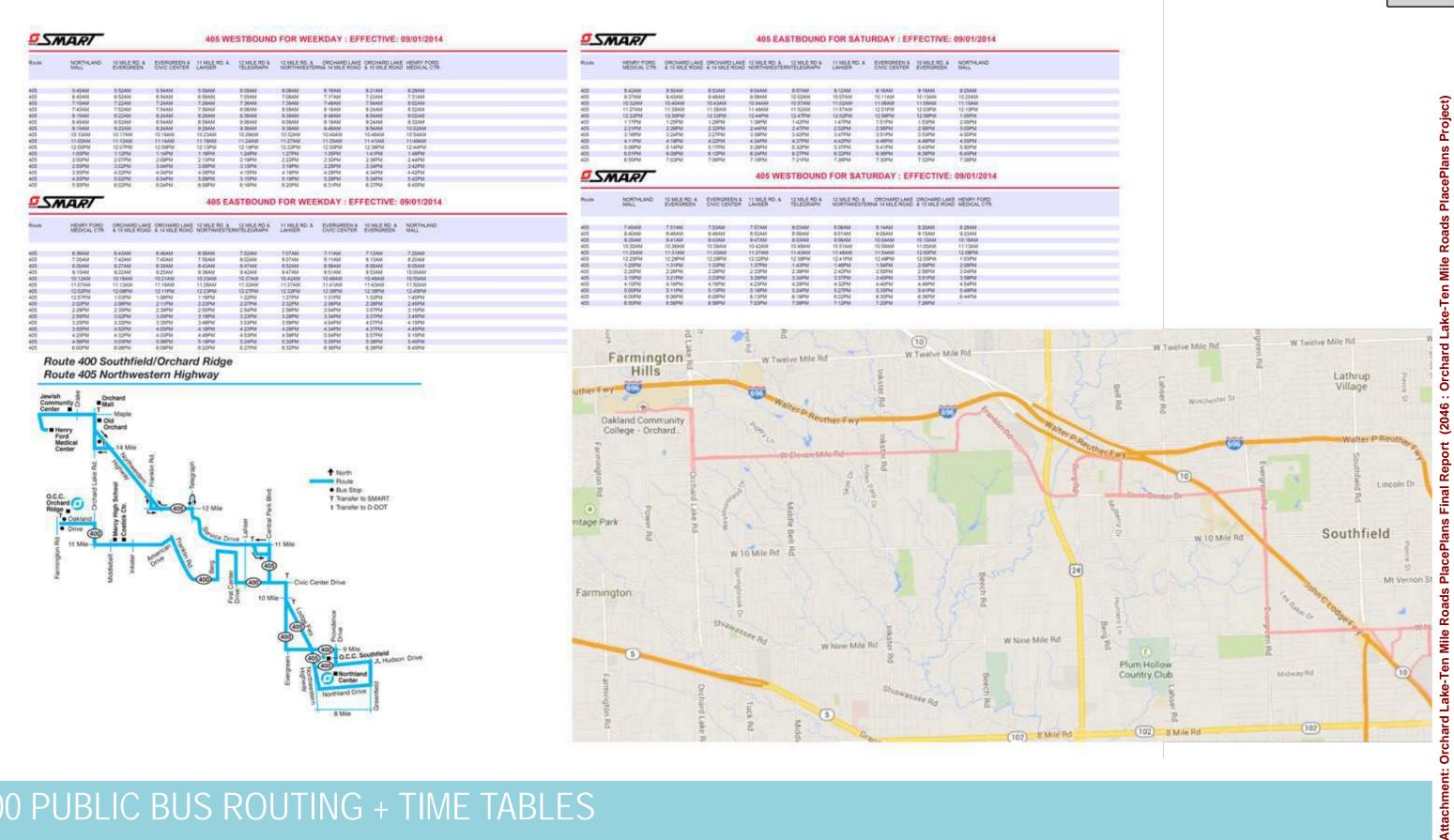
0.04 miles

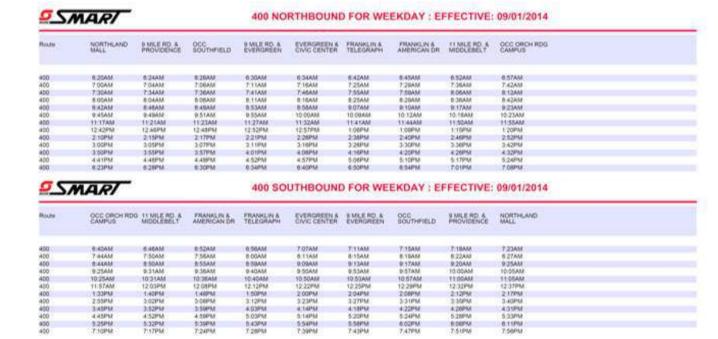
VEHICULAR TRANSPORTATION DEMANDS

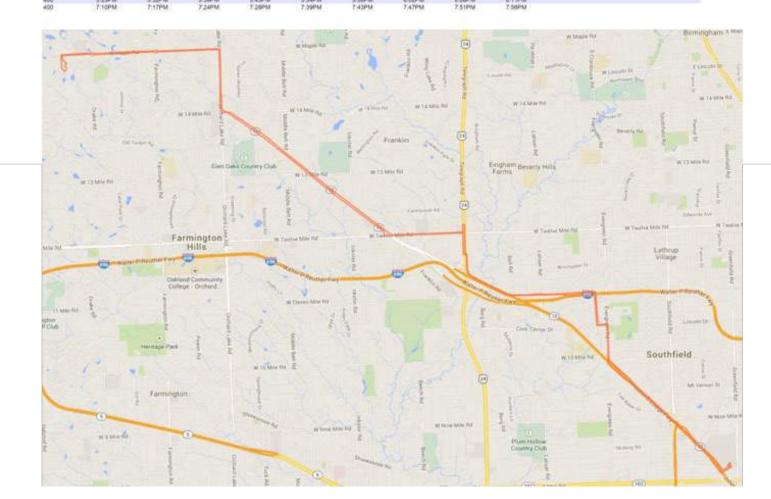
Data evidence indicates that traffice counts North, West, and South of the study intersection are on the decline. To the East they are on the increase. Reduction of space allocated to automobile circulation should be considered.

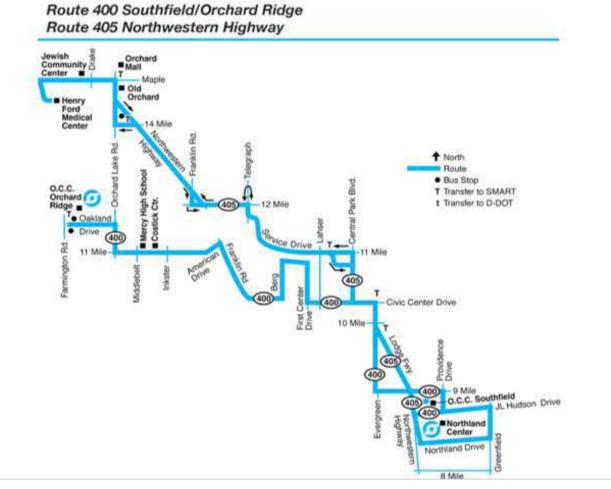
REGIONAL BUS MAP

There are substantial public bus routes that offer access to the East and South portions of the Detroit using public transportation. However, there does not appear to be a direct connection between the two. Orchard could serve as a pedestrian connection point for East-West and South-North bus routing.

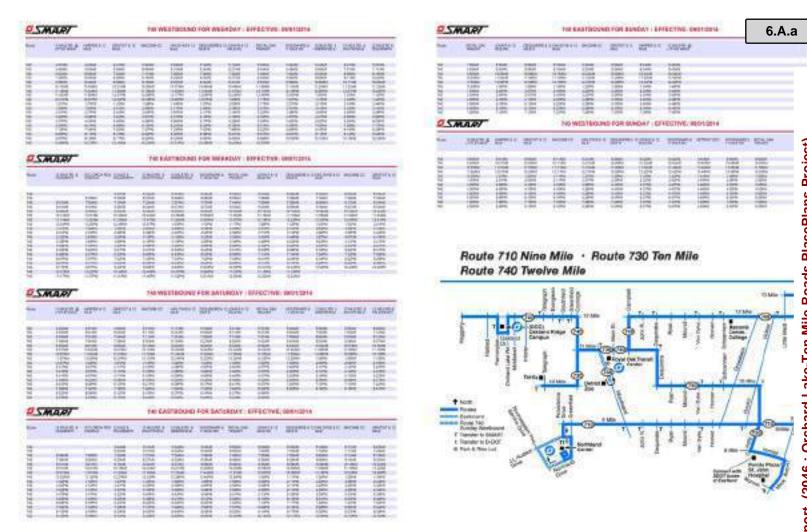


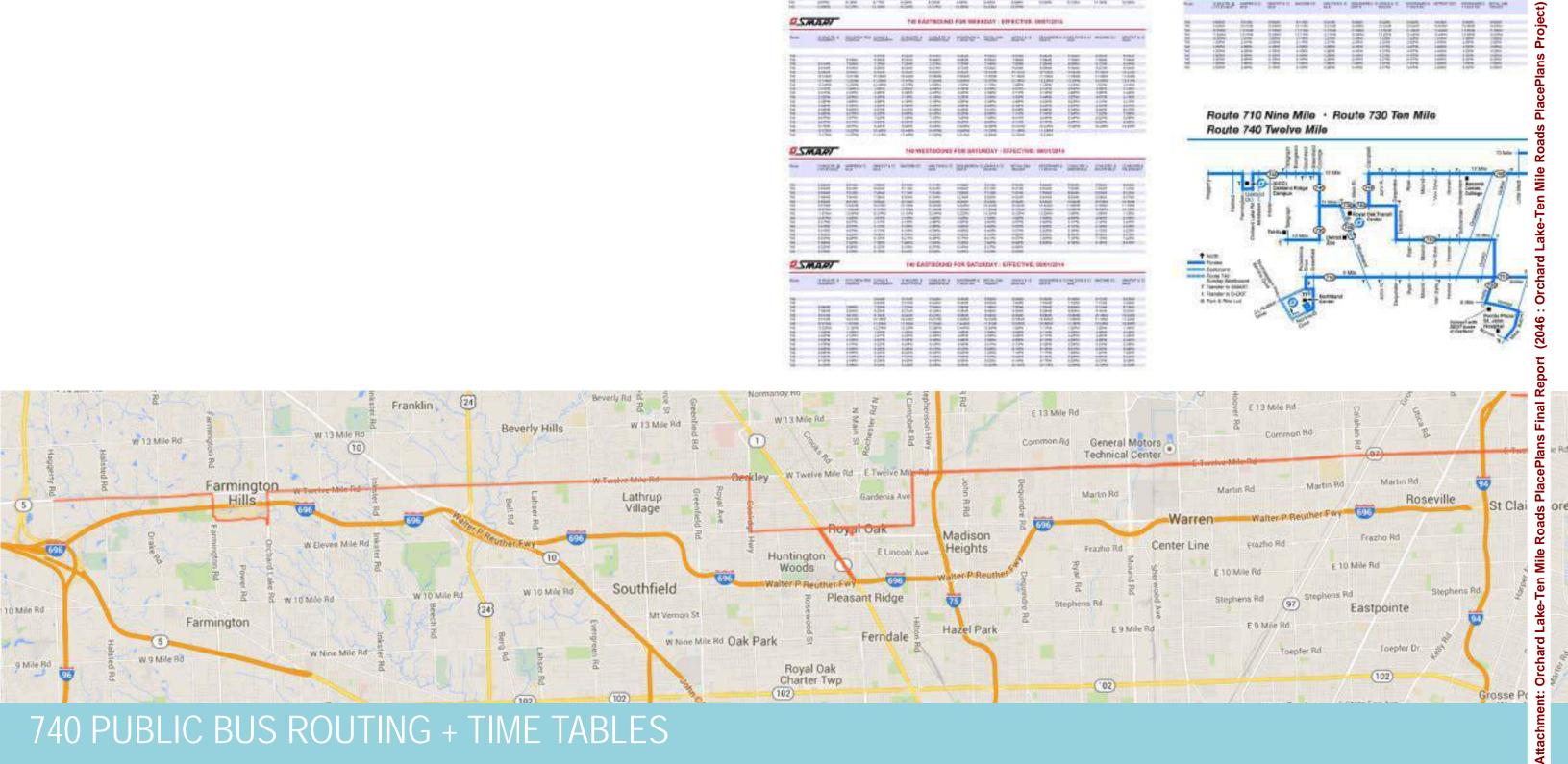




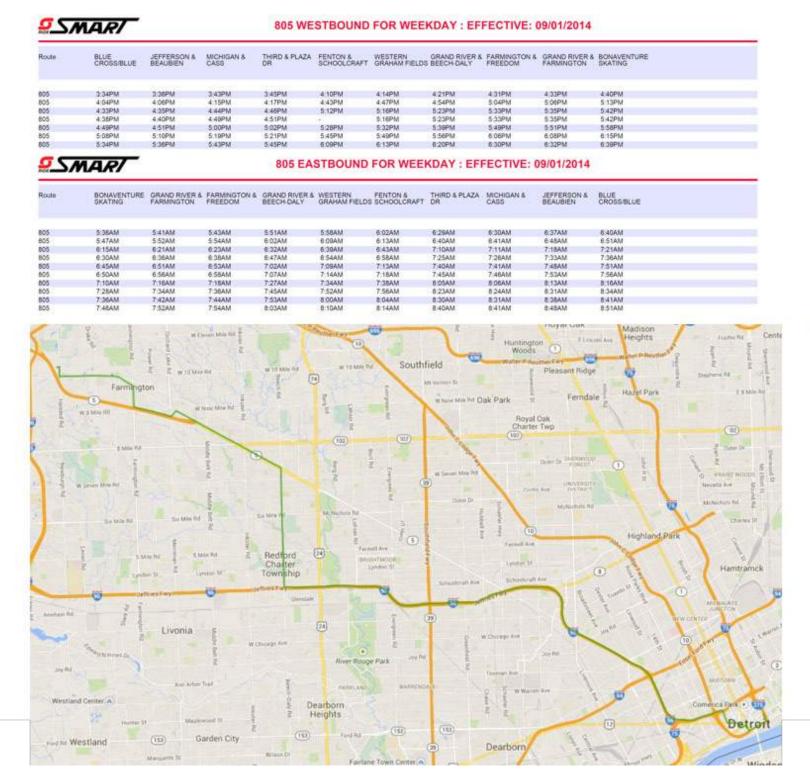


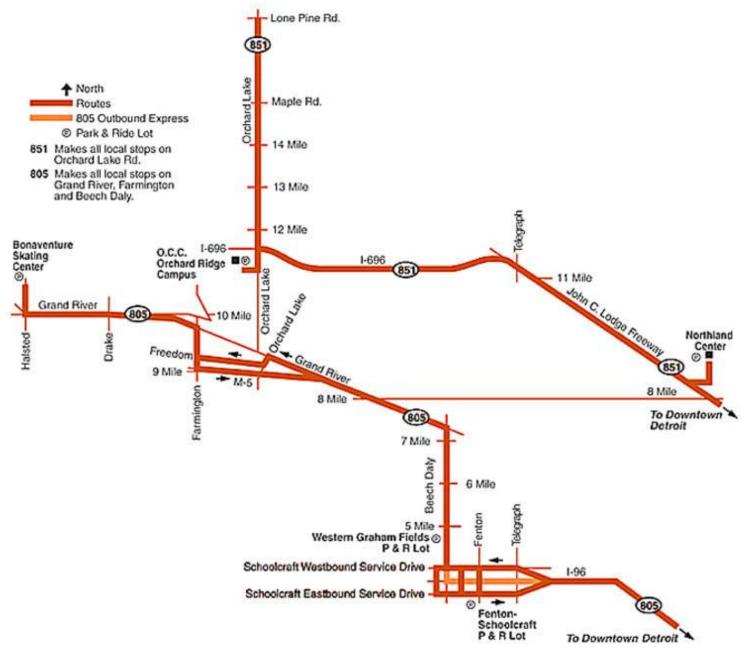
405 PUBLIC BUS ROUTING + TIME TABLES

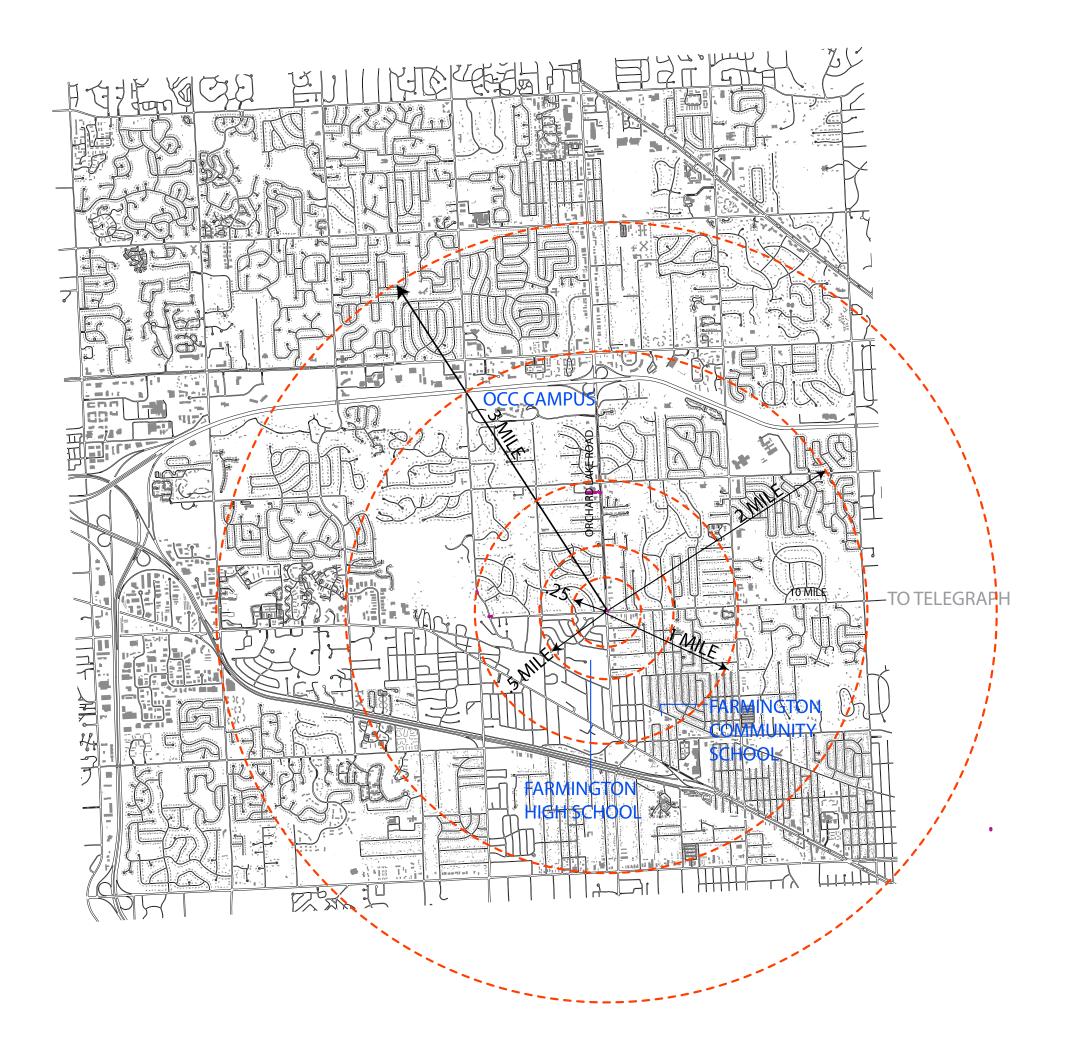




740 PUBLIC BUS ROUTING + TIME TABLES







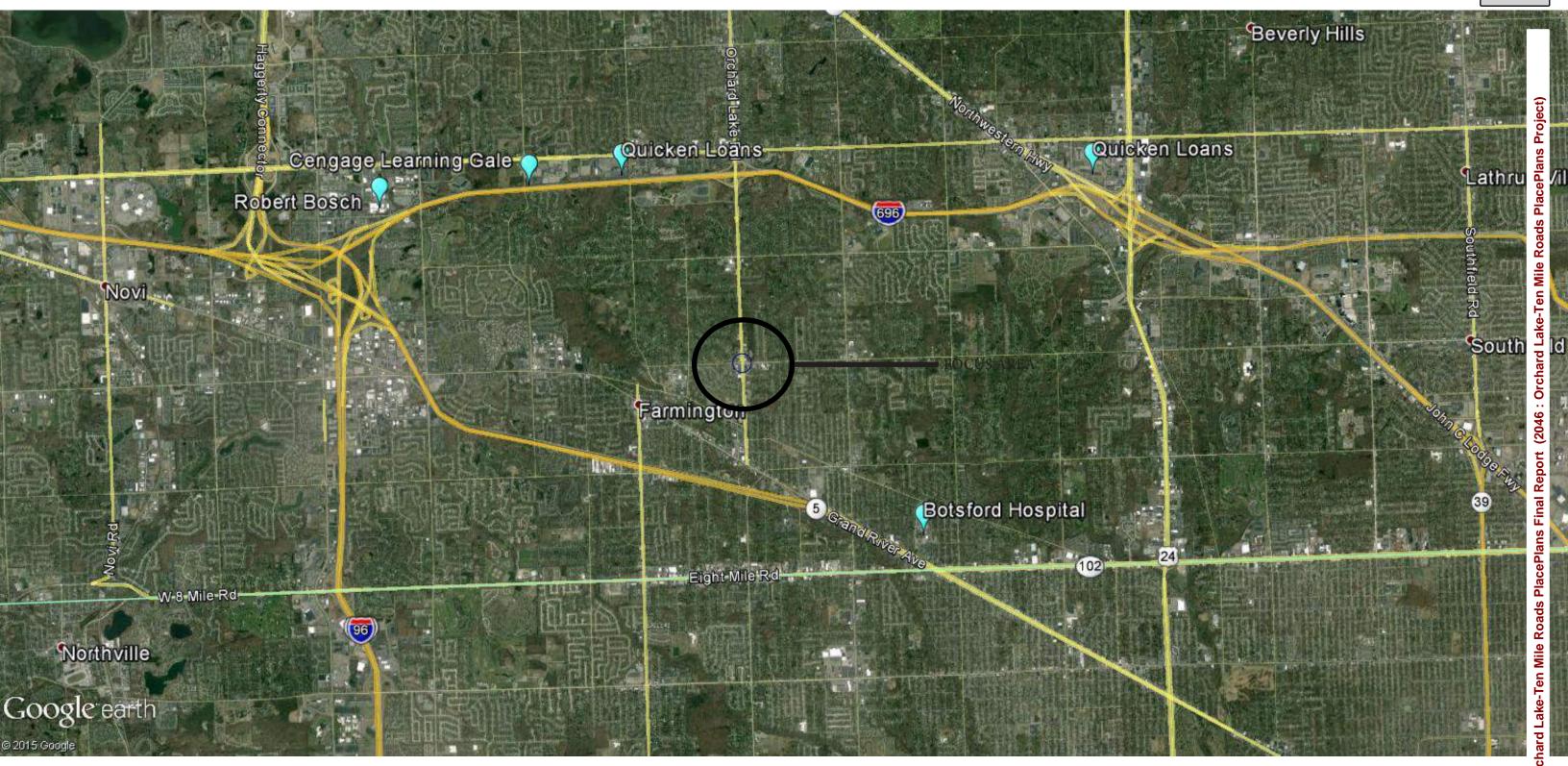
CIRCULATION: EDUCATIONAL ADJACENCIES

ne intersection of 10 MIIe and Orchard can nction as a circulation node for local educaonal institutes.

within a 3 mile range, which is considered a comfortable biking range for nearly anyone.

COMMUNITY ANALYSIS

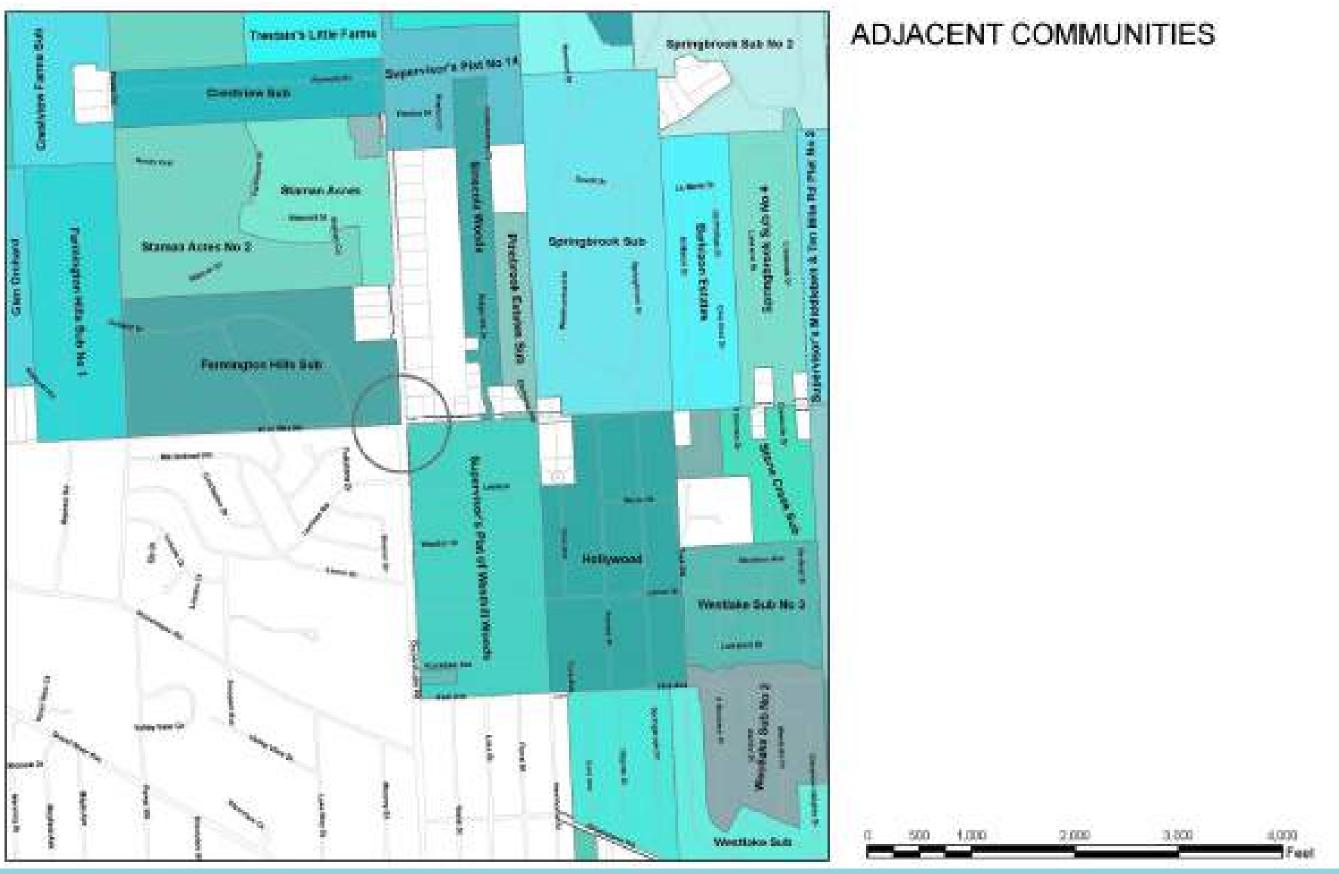
It is most paramount to comprehend the community that is being designed for. To do so building uses, local attractions, and community stakeholders have been studied.



LARGEST REGIONAL EMPLOYERS





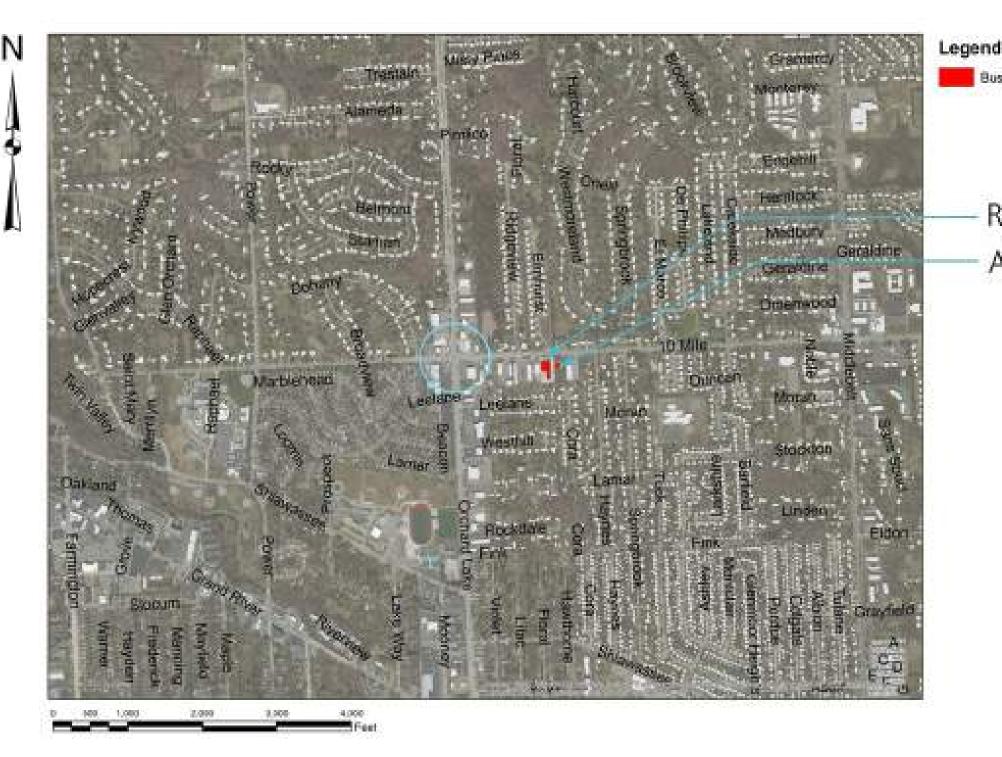


RESIDENTIAL SUBDIVISION STAKEHOLDERS

6.A.a

Attachment: Orchard Lake-Ten Mile Roads PlacePlans Final Report (2046: Orchard Lake-Ten Mile Roads PlacePlans Project)

Packet Pg. 38



- Ron Harwood of Illuminating Concer



COMMUNITY AMENITIES AND BUSINESSES

NATURAL SYSTEMANALYSIS

The preexisting urban tree canopy was analyzed using GIS data to understand the preexisting conditions of tree vegetation, and how tree canopy can be improved. A strong tree canopy can improve air quality, reduce solar heat gain, and make pedestrians more comfortable in urban areas.



MAPPED TREE CANOPY OF REGION

There are noticeable "bald" spots throughout the cities. This presents a challenge to create continuous networks of tree canopies that increase pedestrian comfort, and reduce heat island effect.



MAPPED TREE CANOPY OF FOCUS AREA

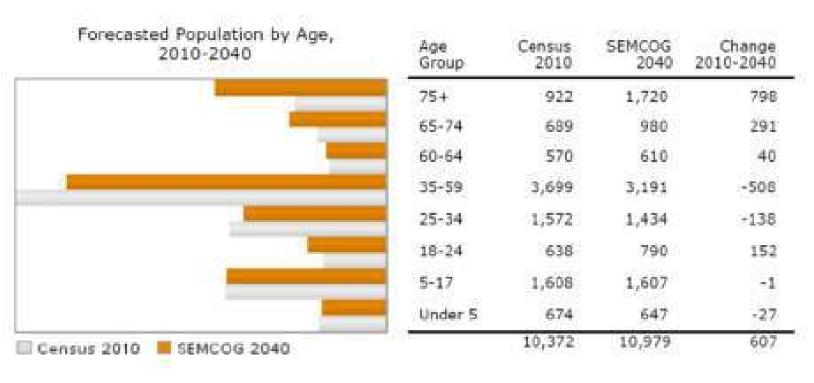
At the intersection of 10 Mile of Orchard there is ample opportunity to improve upon the almost nonexistent tree canopy.

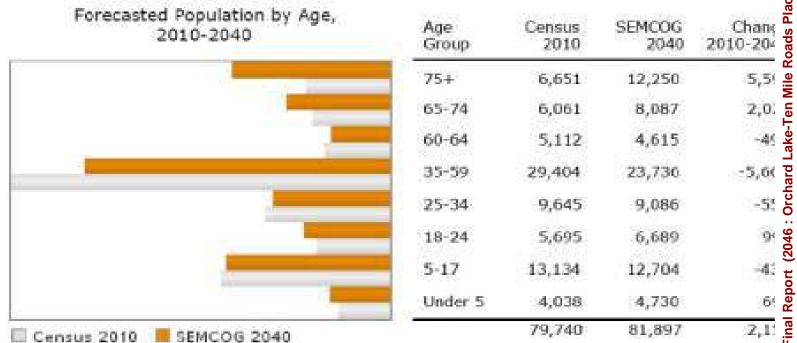
DEMOGRAPHIC ANALYSIS

In order to understabd demographic influences of the area, age and income were analyzed. Both of which were studies for current conditions, and long term/short term projections. Understanding these sort of demographics assures that proposed urban design resonate both with current and future use patterns of an area.

FARMINGTON

FARMINGTON HILLS





Current 2010 conditions indicate there is a real mix of age groups. 35-59 is prominently the majority. But there is a near second place tie amongst c groups dren/teenagers and the elderly. Meaning that urban plans really need to appeal to all three age demographics.

Progressed in time, younger age groups decrease while more advanced age groups are predicted to increase in 2040. This fluctuation is casued by the assumption that majority of current residents plan to remain in the Farmington/Farmington Hills area while aging. Pleasing current residents with improve urban designs can also help maintain resident retention.

CURRENT AND FORTY YEAR AGE PREDICTIONS

SEMCOG Community Profiles

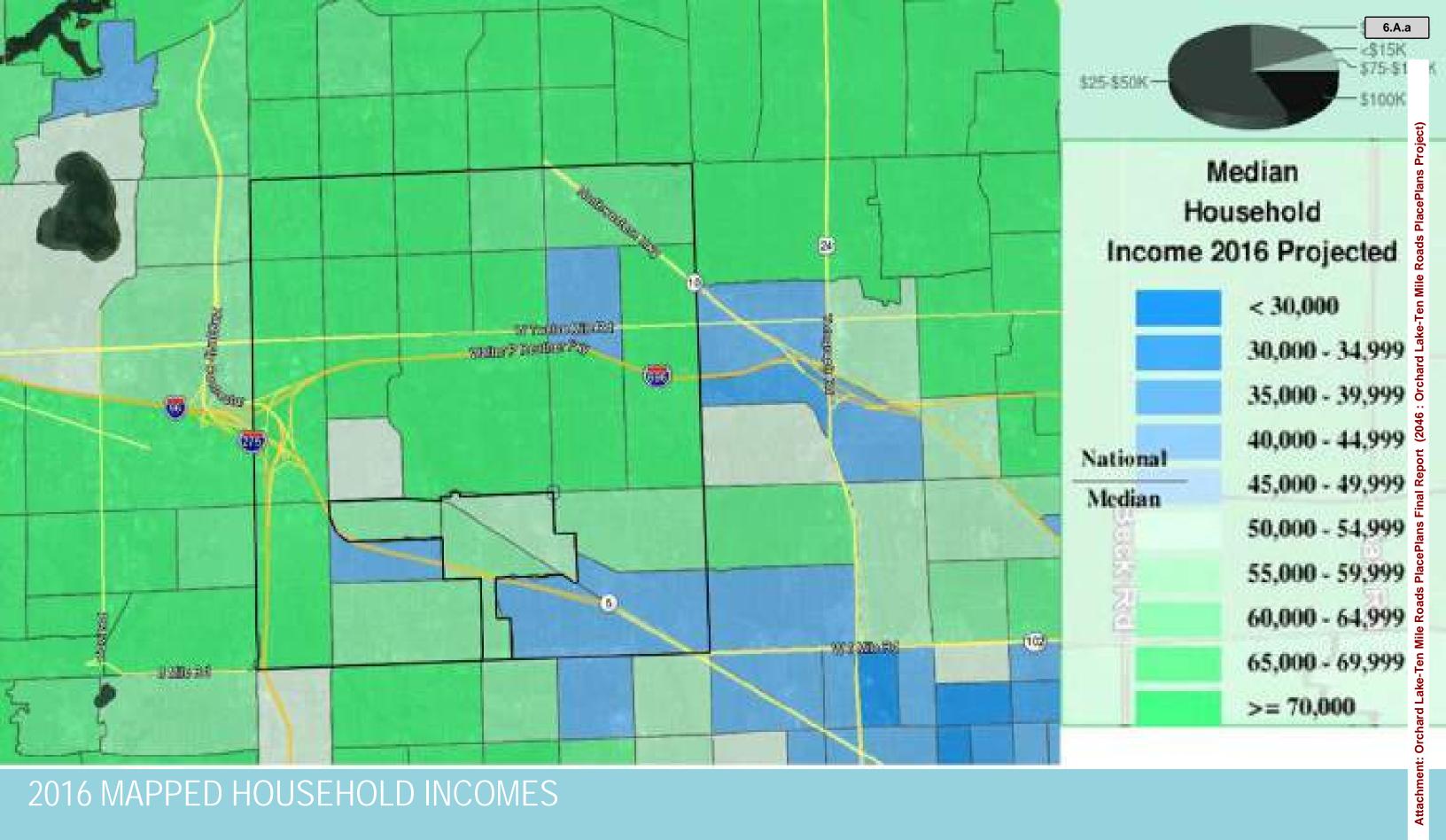
2016 MAPPED AGE PREDICATIONS

References:

GOOGLE EARTH PRO/THE NIELSON COMPANY

6.A.a

Attachment: Orchard Lake-Ten Mile Roads PlacePlans Final Report (2046 : Orchard Lake-Ten Mile Roads PlacePlans Project)



2016 MAPPED HOUSEHOLD INCOMES

GOOGLE EARTH PRO/THE NIELSON COMPANY

PHOTO ANALYSIS

A photo analysis was performed to visually document existing conditions of the urban environment. It was completed by walking the study area for 2.5 hours and taking pictures along the way. Observations were made that relate to conditions of pedestrian routes, urban fabric, vegetation, pedestrian experience, land use adjacencies, and urban amenities.





Preexisting trees can provide shade to pedestrians utilizing the sidewalks. It also seems there is some natural vegetative systems that are already established. It is also good that tree root structures are not bounded by planters.

10 MILE WEST OF ORCHARD, LOOKING NORTH





All of the black asphalt parking asphalts presents environmental issues of increased heat island effect, a storm water runoff.

LE LOOKING WEST

ORCHARD SOUTH OF 10 MILE LOOKING WEST





10 MILE, WEST OF ORCHARD LOOKING NORTH





10 MILE, EAST OF ORCHARD LOOKING NORTH

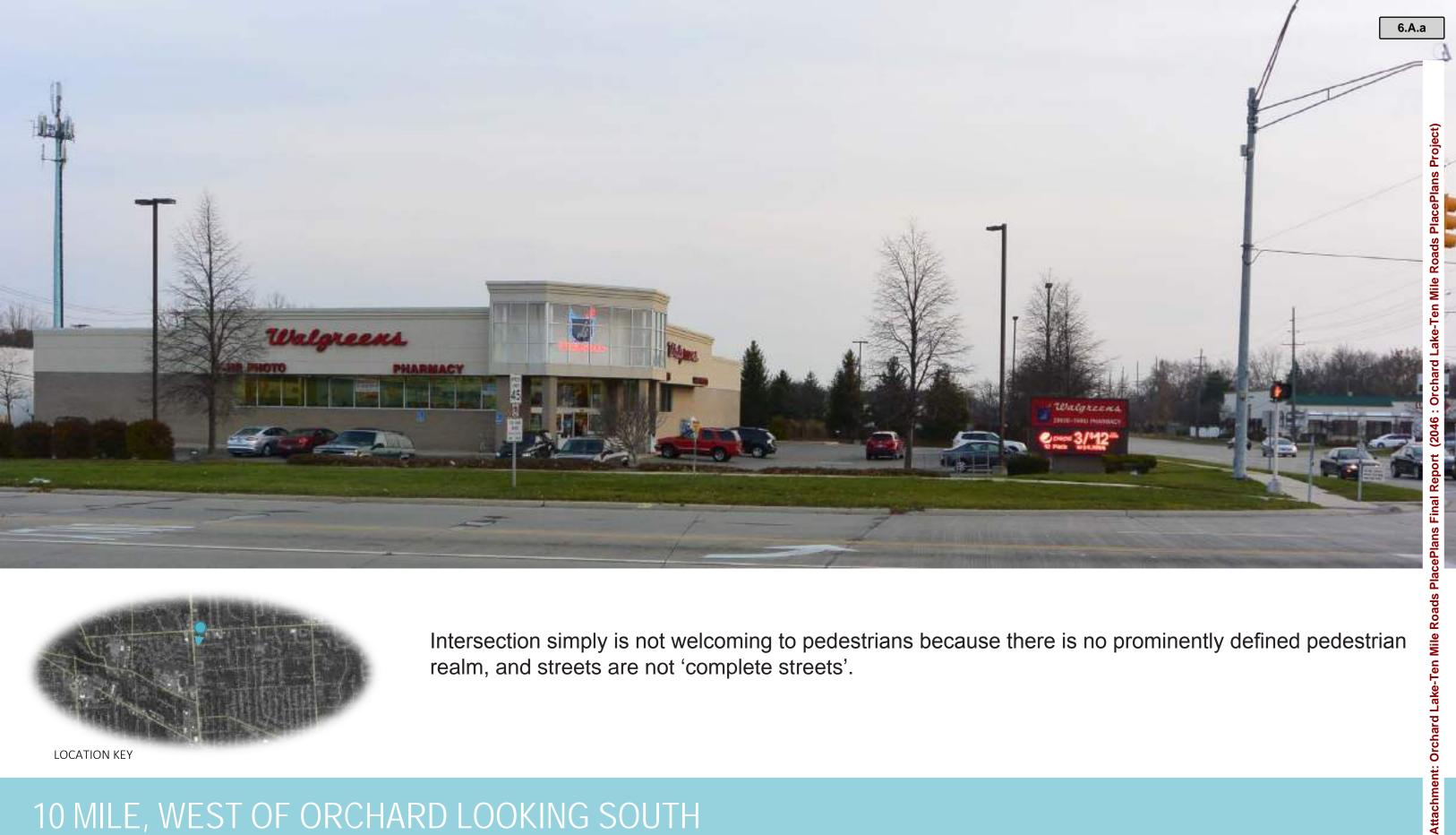


Continuation of buildings that integrated relationship with pedestrian circulation (the sidewalk).

The more businesses in the area that allow for easy transition from sidewalk to business interior are simply better for promoting walkability in that area.



10 MILE, EAST OF ORCHARD LOOKING SOUTH





Intersection simply is not welcoming to pedestrians because there is no prominently defined pedestrian realm, and streets are not 'complete streets'.

10 MILE, WEST OF ORCHARD LOOKING SOUTH





ORCHARD, SOUTH OF 10 MILE LOOKING WEST



Intersection of two primary road does little to emphasize and give prominence to the pedestrian.

Faded paint used as the only mec anize for delineating pedestrian ur ban realm, communicates pedestri ans are unimportant.

Recommend new material palette 1 pedestrian networks.



INTERSECTION OF 10 MILE AND ORCHARD





TYPICAL SIDEWALK

While majority of sidewalks are the typical 4'- width, in some locations there is a greater wide being used.

Generally 4'-0" is too small of a width to creat a prominent walking path that supports a plea ant pedestrian experience. It becomes difficute pass people, people do not feel comfortable double walking, and the mixing of bikers and walkers can not be supported.

It is refreshing to see larger sidewalk widths a life already being implemented throughout the cit

ORCHARD, NORTH OF 10 MILE, WEST SIDE OF STREET, WITH WIDER SIDEWALK



Some pedestrian activity is alr present at the intersection area.

In a two hour period three people walking, and two people biking wer below observed.



ORCHARD, SOUTH OF 10 MILE LOOKING EAST



In areas such as this, where is 6.A.a is a lot of fast moving traffic and little vegetation, it is uncomfortably nois

Notably Orchard appears to be mu louder then 10 Mile.



ORCHARD, SOUTH OF 10 MILE LOOKING EAST



North of Orchard, vegetative boulevard app replace dedicated turn lane. Vegetated buffer could be continued down, and extend to grand.

Could also serve as sound dampening, space fc dedicated bike lane, and green storm water mar agement infrastructure.



ORCHARD, NORTH OF 10 MILE LOOKING WEST



This is a typical residential still 6.A.a adjacent residential areas. The narrow tree lined streets are a sharp contrast to the experience of walk the intersection.

It is more rewarding to walk through the neighborhoods, then the primary roads because it is significantly my pleasant for the pedestrian.



TYPICAL NEIGHBORHOOD





A number of the residences take on a "rural" character with more naturally landscaped yards, and gravel drives. This architectural language seems out of sync with current intersection design elements and qualitic Efforts should be made to create a better experiential linkage between rural and developed.

RURAL/NATURAL URBAN FABRIC



Nearly all residential areas transition 6.A.a a calm slow moving street, to a busy road abruptly.

Not does this quickly deteriorate the qualit of the pedestrian experience. There is safe issues/concerns when dense residential a eas are joined to busy roads in this fashion

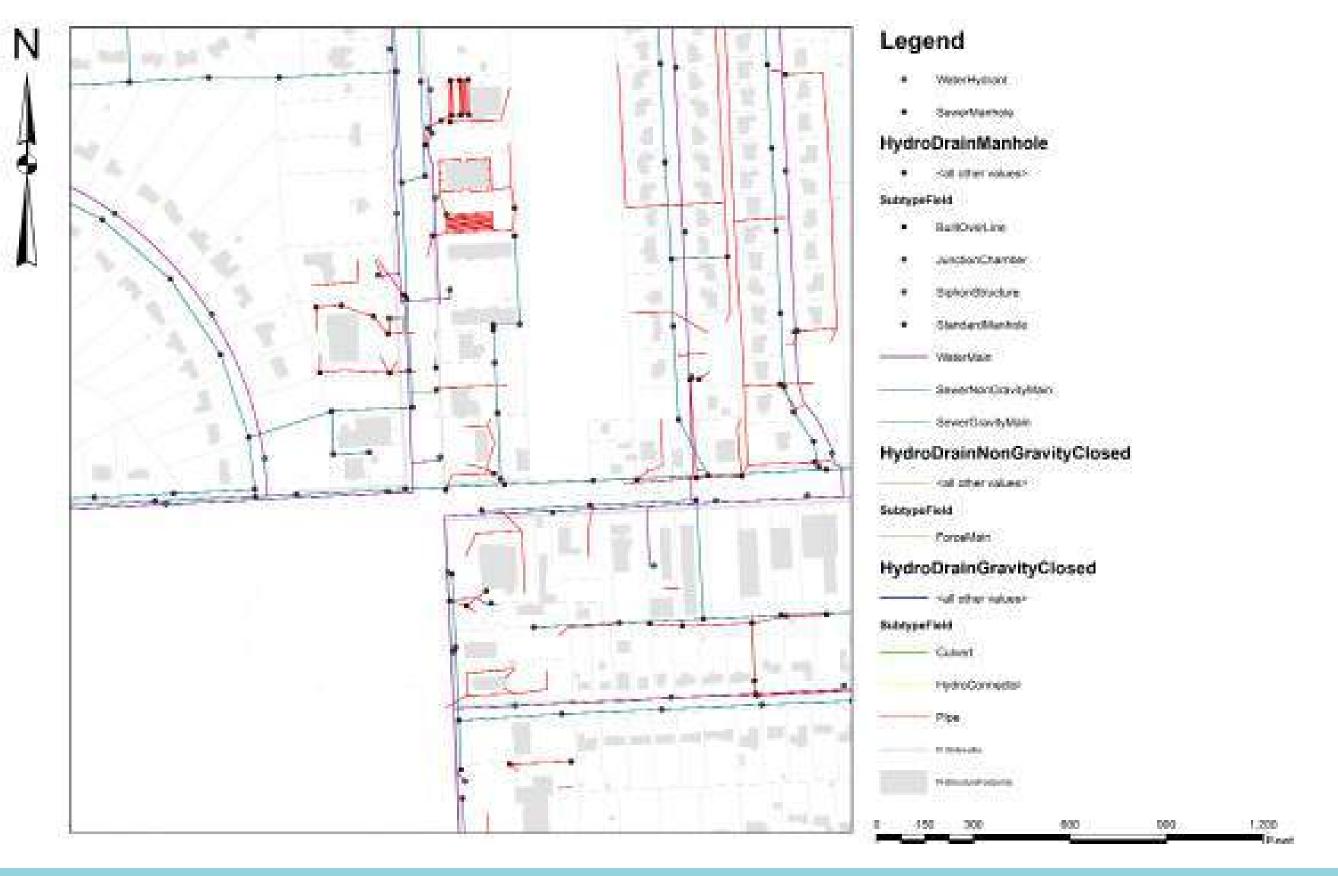
The busy wide roads of Orchard and 10 M are also functioning as community segregators. Which are forcing the neighborhoods be considered discretely, and not in terms a continuous urban fabric of a singular community.



TYPICAL INTERSECTION AT RESIDENTIAL NEIGHBORHOODS AND ORCHARD

EXISTING INFRASTRUCTURE ANALYSIS

A photo analysis was performed to visually document existing conditions of the urban environment. It was completed by walking the study area for 2.5 hours and taking pictures along the way. Observations were made that relate to conditions of pedestrian routes, urban fabric, vegetation, pedestrian experience, land use adjacencies, and urban amenities.

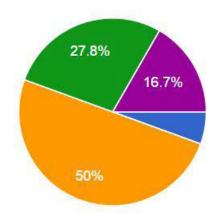


MAP OF EXISTING INFRASTRUCTURE AT FOCUS AREA

Infrastructure routing appears to fall to the sides of streets, and below sidewalks.

COMMUNITY ENGAGEMENT

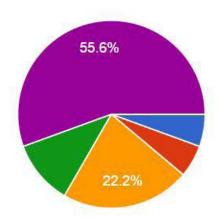
BUSINESS OWNER



All	1	5.6%
Three quarters	0	0%
Half	9	50%
One quarter	5	27.8%
None	3	16.7%

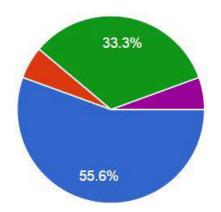
Approximately, how many of your employees are residents of Farmington or Farmington Hills?

Which of the following would help you increase business?



On street parking	1	5.6%
Improved sidewalks and bike paths	1	5.6%
Improved public transportation	4	22.2%
Improved public spaces		11.1%
Other	10	55.6%

What is the nearest street intersection your business is located by?



Orchard Lake Road and Ten Mile	10	55.6%
Orchard Lake Road and Shiawassee	1	5.6%
Orchard Lake Road and Grand River Ave	0	0%
Orchard Lake Road and Eleven Mile	6	33.3%
Ten Mile and Power Road	1	5.6%
Ten Mile and Middlebelt	0	0%

NUMBER OF EMPLOYEES

solo about 20

6-10

blank

10 None

This location 6, company wide 3,500

3-4

DESIRABLE IMPROVEMENTS

We could use more nice restaurants, and retail stores and maybe a little better landscaping in some areas. And a few of the roads need fixing badly this would stimulate more of a draw. Parking needs a lot of help downtown!!

Continue to improve appearance, and downtown.

None related to the business

I travel about 16 miles from home to work and was shocked to find that Orchard Lake Rd had not been plowed yet by 9 a.m. Monday, February 2nd following that huge snow storm. Every other road/freeway taken that morning had been cleared and for such a major road like Orchard Lake not to be plowed north or southbound was shocking. Also, some areas of 10 Mile & Orchard Lake only have sidewalks on 1 side of the road, so you have to cross a major road if you want to walk on a sidewalk - like 10 Mile east of Orchard Lake only has sidewalks on the south side to Middlebelt. It would be more convenient if sidewalks were on both sides of the 10 Mile.

green space, walking/jogging/biking paths

More trees and landscape, nice natural appearance of surrounding area.

I would like to see smooth road surfaces

Improved Public Transportation

Improved traffic flow, roadway improvements

Roads

Better traffic control

I would like to see the public sector change to 401k type retirement plans and eliminate all health insurance for retirees. I am tired of having municipalities waste 30% of my tax dollars for "legacy costs".

I think Farmington/Farmington Hills is a lovely community and the improvements made to the downtown area are wonderful.sidewalks integrated with coordinated landscaping and decorative street lighting

Transportation needs to be improved greatly. Hospitals connecting with senior living communities to provide transportation to all necessary medical appointments.

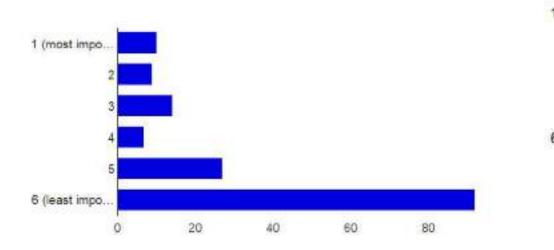
ADDITIONAL COMMENTS

Doing a good job at this point (in partnership with city).

Farming on and F. Hills are great places to live and work. Employees and clients would like to see continued improvements in landscape, sidewalks, and natural aspects of surrounding area.

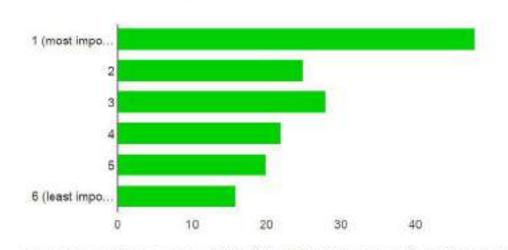
BUSINESS OWNE 6.A.a SURVEYS

Access to public transportation [Rate the following in order of importance?]



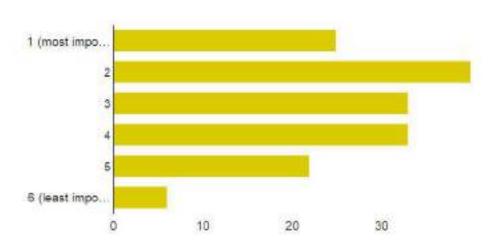


Safe and accessible bike routes [Rate the following in order of importance?]



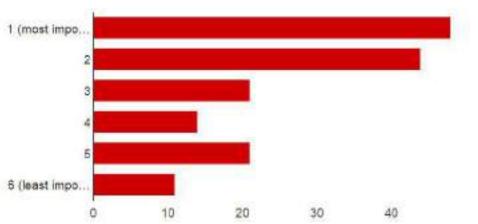


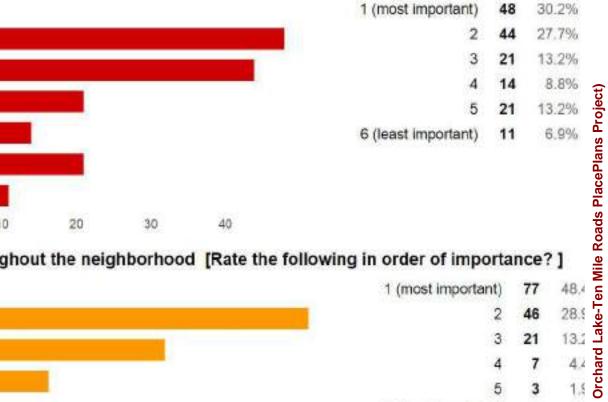
Local recreation areas [Rate the following in order of importance?]



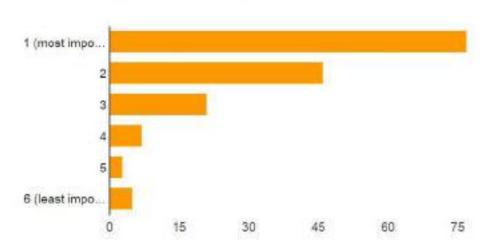


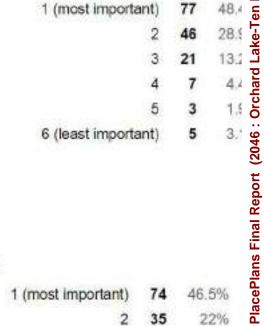
Diversity of local restaurants and shops [Rate the following in order of importance?]



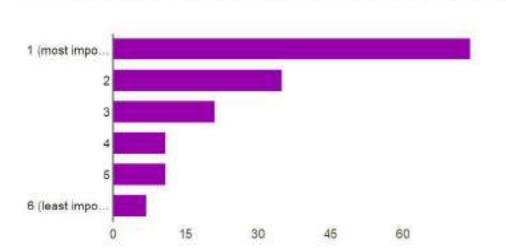


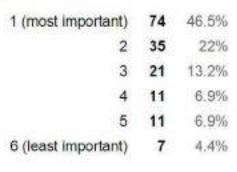
Walkability throughout the neighborhood [Rate the following in order of importance?]





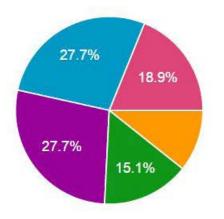
Pedestrian safety [Rate the following in order of importance?]



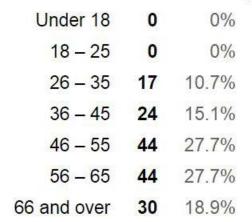


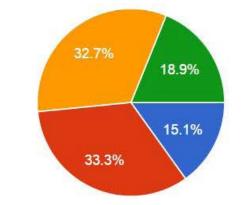
RESIDENT SURVEY

What is your age



How long do you plan to be a resident in the area?



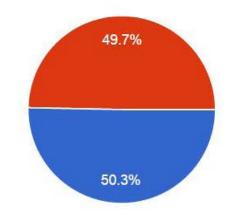


How often do you walk to destinations during the week?

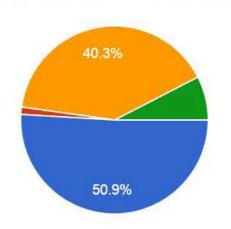
0-5 years	24	15.	Ö
5-15 years	53	33.	Ó
15-30 years	52	32.) ect)
30 + years	30	18.	S Pro
			=

6.A.a

Would you prefer to bike or walk to work as opposed to driving?



Yes	80	50.3%
No	79	49.7%



Never	81	50.9
Always	2	1.3 5
-3 times a week	64	40.3 g
-7 times a week	12	Attachment: Orchard Lake-Ten Mile Roads PlacePlans Final Report (2046
		Attachment: Orchard Lake-T

Better side walks on Powers Rd. between 11mile and 10 mile.

Curb appeal. Pleasant walking conditions. Produce Market.

All of the empty buildings to be filled. Starting to look like a ghost town in places. Would love to see school bond proposal pass...

bike lanes on all streets

Safe long continuous walking trails for exercise and leisure walks

Social activities

Paved streets

Designated bike paths would be great. I think some nice landscaping would also improve the corner of the 10 & Orchard Lake area. On another topic, other cities ticket residents who don't take in their trash cans in a timely manner. I think Farmington/Farmington Hills should join that tradition.

Safer crossings at major intersections.

Although I do not use public transport, I feel badly for employees who need it to get to jobs in this area. They need buses and sheltered bus stops. I very much want another grocery store at 10 & Orchard Lake. I would never, never, ride a bike along either Orchard Lake Rd or 10 Mile even with a dedicated bike lane.

More shops, restaurants, bars, bike trails. More recreation areas for the community to gather.

Paved streets that are not a patchwork

Walkable shopping

Safe bike paths and pedestrian crossings

More curb appeal at various intersections at the outskirts of downtown proper. 10 mile/Orchard Lk, Grand River/Halstead seem to be the most in need. I'm glad to see improvement going on at the grand river/halstead (former Kmart) location. Wondering about the status of the abandoned gas station at Gr river and Halstead. It will quickly fall into disrepair and become an eye sore if something isn't done soon. Not a fan of the ice rink downtown. Doesn't seem to get much use for what it probably costs the city and therefore the taxpayers. Better and more relevant shopping within walking distance. Better grocery store, a Trader Joe's type store, a good fruit market, a hardware type store such as a Home Depot.

People drive too fast down our street and there are no sidewalks so children, runners, walkers and bikers have to use the street. Biker and runner paths. Less services and lower taxes.

Walkable neighborhoods, shops, restaurants almost like a downtown district. Some sort of better access to public transportation that reliably connects the whole metro area, including downtown Detroit. Revitalizing of some areas that look decaying or rundown, such as the southern part of Grand River in Farmington Hills.

general sidewalk maintenance for all business and residences on mail roads such as ten mil and orchard lake... such as sidewalk clearing of snow with no restrictions such as snow plw hills blocking them, etc...

Improved bike paths More urban feel to the dining/shopping/recreation To see vacant buildings filled with good businesses. The strip malls need continual work. A large indoor sports complex (Baseball/softball/soccer)...for the Farmington community - not Total Sports. Improved stairs to Downtown from Shiawassee Park. Concessions Stand and better bathrooms at Shiawasee

Park.

More restaurants, bars, and entertainment for single people ages 25-35. good zoning keeping area residential (no ugly old strip malls, require strip malls to be visually updated) good traffic congestion methods continued good maintenance of Orchard Lake median (the seasonal perennials - like and very much appreciate) planting of more median trees, annual flowers, decorative lamp posts with hanging flower baskets at intersection, etc. (I am a supporter of Greening of Detroit) quality control automatic median sprinklers so that they are not wasting water by not being accurately adjusted i.e. watering road vs grounds, watering during/after rain, etc.

I live in Staman Acres- We need a gradual turn off Orchard Lake to avoid an accident- (Rocky Crest turn-in street). Also better lighting in our sub (safety). Diversity of local shopping, business and entertainment. Connecting different areas of community with walking, biking accessibility and public transport. Integrated multiple public plaza space throughout the community. Not necessarily large spaces but more available outdoor places to meet, sit, eat lunch, read, study etc around the community. Public transportation is the future. Less sandwich shops + more

Streets with ditches in front of homes should have side walks for the safety of kids to ride their bikes, for parents safety to walk their child in a stroller and children and adults should have a safe place to walk down the street; ex. Lamar Street

Designated walking areas along Power Road; we're within walking distance to downtown area but would need to walk in the street to get there. For vacant business to be filled (Grand River and Drake) (Grand River and Orchard Lake)

Use some dynamite on that mess on Moody and Grand River. Try to get a good supermarket at Ten and Orchard Lake. Keep Ten and Orchard Lake free of any more building projects. There are enough "see-throughs" in the area. More green areas and bike routes

Definitely need better American restaurants in the area

More neighborhood businesses.

More restaurants

Better maintenance of the sidewalks, especially in the winter.

More bike lanes, bike safety training for bikers and motorists.

more bike paths (or wide, paved shoulders) on most roads.

Fix up the 10 Mile and Orchard Lake Rd area, some of it seems rundown. The gas station on the northwest corner needs to be updated or closed. The strip mall on the north side of Grand River across from the old winery needs to be fixed up or torn down. There needs to be more parking in downtown Farmington, especially with all of the weekend events.

I am happy with everything as it is.

Consistently friendly shops downtown. Don't feel welcome shopping there. raised pedestrian walkway over Orchard Lake Rd, increasing accessability A few more destination type businesses, like a coffee shop. Sidewalks and a bike lane along Ten Mile. General improvement to the appearance of the infrastructure in the area. Easier walking access to downtown, and bike access in and out of the neighborhoods on each side of the intersection. Roads (pot hole repair)

Cleaning up of the neighborhood and of the strip malls in the Area. The strip malls seem to be falling apart along with parking lots.

Better timing of the traffic lights at Orchard Lake & 10 mile - Opposing signals are not synchronized the same, which deceives people trying to determine when it's safe to turn right on a red, or safe to turn left. Also, the left turn signal has a very short yellow, causing people to complete left turns on a red, or get stuck in the intersection. Some people speed up to catch the yellow, which instantly puts them into a left turm on red.

More parking in downtown Farmington. New businesses in the vacant stores Safety for walking and biking

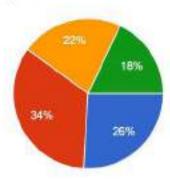
1) Space such as that on Mooney and Grand River occupied - not vacant. 2) An enforced restriction on fireworks over July 4. It has become a week long annoyance that disturbs the sleep of people on shift work, scares children and pets, and leaves debris in the streets and on others' lawns.

Sidewalks are not shoveled by property owners in the winter months. Vegetation that encroaches on sidewalks is not maintained by property owners in summer months. Vehicles are commonly parked in ways that partially or completely block the sidewalks. If you are serious about improvement projects, please focus on the basics first and ensure that the sidewalks/bike paths we already have in the city are periodically reviewed and maintained. Please advise property owners of their obligations regarding sidewalks/bike paths that are on their property.

Sidewalks! Bike lanes. A grocery store and more restaurants. MORE TREES!

More areas for walking or running or biking cleared in the winter. I think Farmington should take a cue from the work that has been done in Northville and Plymouth. People frequent those areas because of there is a combination of family friendly restaurants (not necessarily chain restaurants) and shops that carry unique items. This also could be implemented in the uptown area of Farmington, especially on Mooney Street between Shiawassee and Grand River. The stripe mall that formerly housed a hardware store (that was a great addition to the community) has become an eyesore. Aside from Art on the Grand, Farmington doesn't have an attractive summer festival. The Farmington Founders Festival used to be a great attraction, but in recent years it has deteriorated into an embarrassment of cheap crafts and carnival rides. More local shops and eateries including local Michigan breweries, coffee shops and arts & crafts.

I live in the Bel Air subdivision and actually walk quite often to Walgreens. I don't see many other residents do this; fortunately there are nice sidewalks in the sub. When repairs were made to the intersection at 10 mile and Orchad Lake last year, they did a very nice job with the pedestrian walkway features across Orchard Lake. I don't think safety can be improved on that, it is just a fairly big road to cross. I would like to see the strip mall repaired and some green infrastructure features installed, bioswales to capture parking lot runoff. Just overall softening the look of it would be good. Tree plantings would help make the neighborhood look a little more sophisticated. You may also want to consider seating areas around Greene's hamburgers, that is probably a place that would be used most in regards to a park commons area. The businesses that are currently at the intersection make sense and what the demographic will support. I would make sure to ask them what they want. An event like a

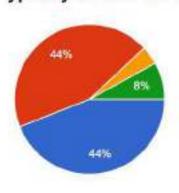


Could walk to school easily 13 26%
Could bike to school easily 17 34%
Long bike ride to school 11 22%
Really far 9 18%

Would you prefer to walk and or bike to school?



What do you typically do after the school day?



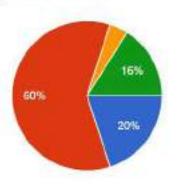
Go home 22 44%

Extracurricular activities at school 22 44%

Patron local businesses 2 4%

Other (please be specific) 4 8%

How do you get to school?



Bus 10 20%
Personal automobile 30 60%
Bike 2 4%
Walk 8 16%

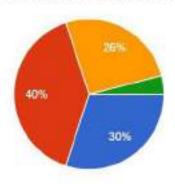
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54%

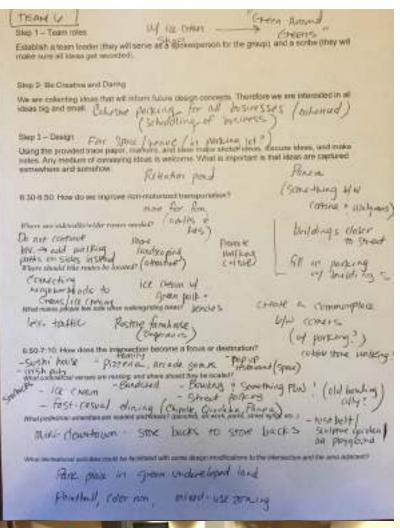
46%

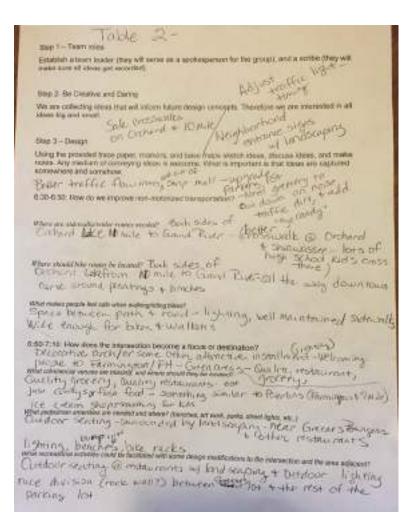
What would cause you to bike or walk to and from school?



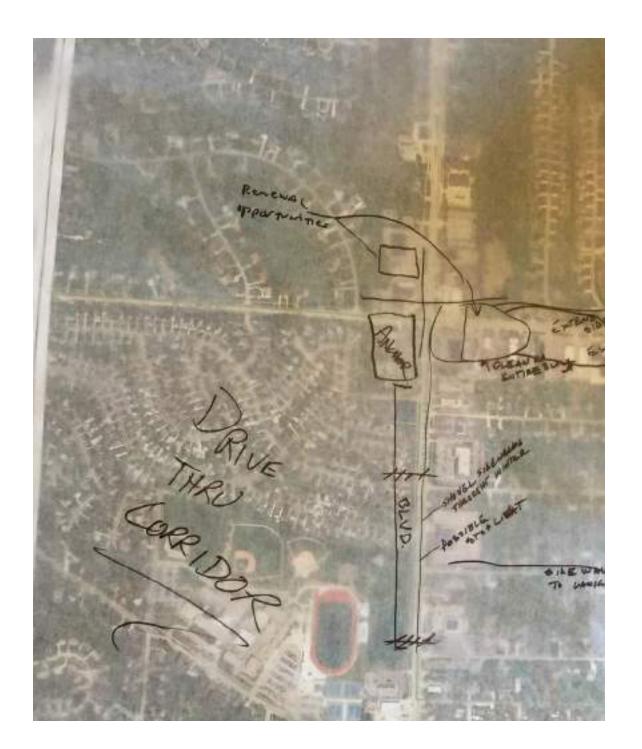
Nothing 15 30%
Safe bike lanes and walking paths 20 40%
Group of friends to bike/walk with 13 26%
Secure bike storage 2 4%

HIGH SCHOOL STUDENT SURVEY



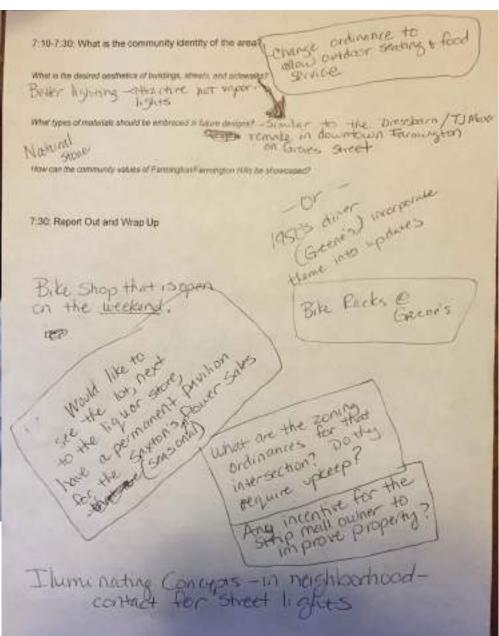


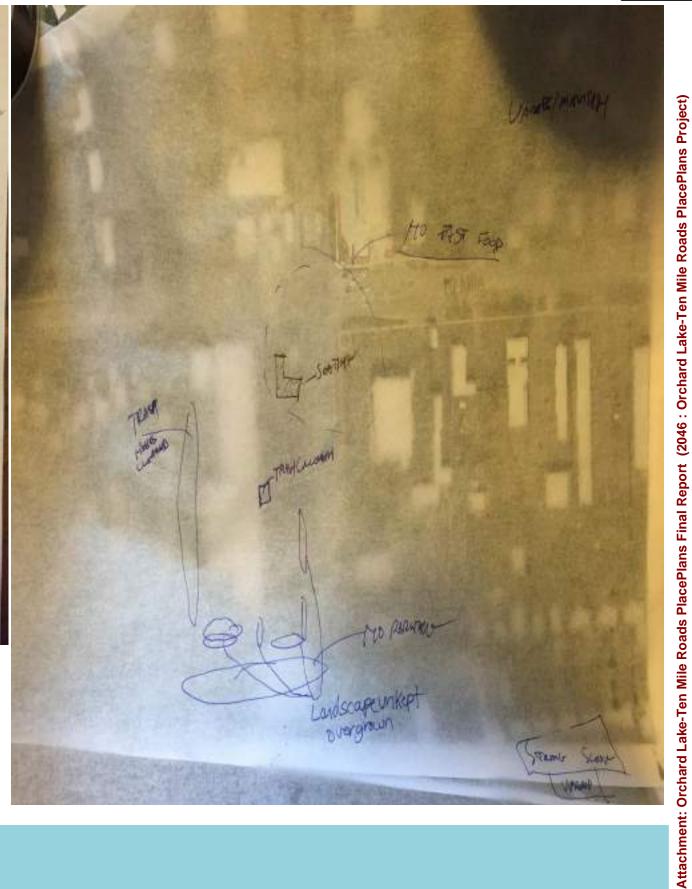




PUBLIC CHARETTE







PUBLIC CHARETTE

ANALYSIS HYPOTHESIS

Working form information obtained through public engagement, and research, visioning principles were established to guide the design process.

REIMAGINED URBAN FABRIC

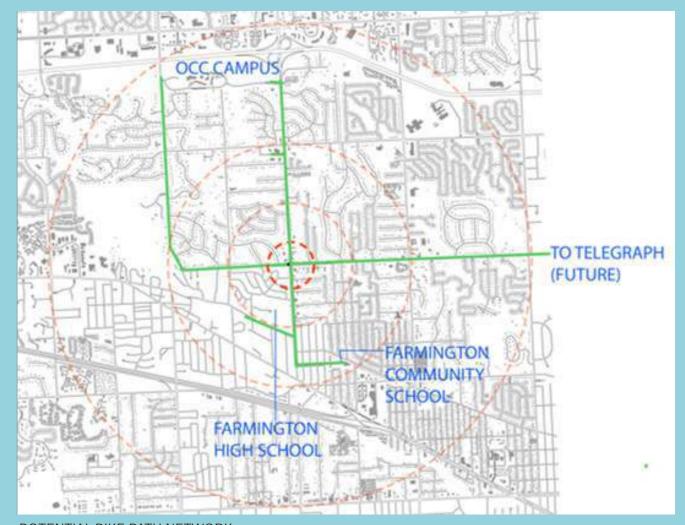
- Surrounding commercial and residential areas seem to be in disharmony, we want to explore how they can be more supportive of one another. Particularly in terms of making the diverse building and land use typological supportions.

- Make the pedestrian feel safe at all times of day.



REVISED CIRCULATION SYSTEMS

- Provide transit that connects bus lines better.
- Recommend integrating bike paths to begin to develop bike network throughout city.
- Consider narrowing streets and perhaps slowing cars to reduce sound and pedestrian danger.



POTENTIAL BIKE PATH NETWORK

Attachment: Orchard Lake-Ten Mile Roads PlacePlans Final Report (2046 : Orchard Lake-Ten Mile Roads PlacePlans

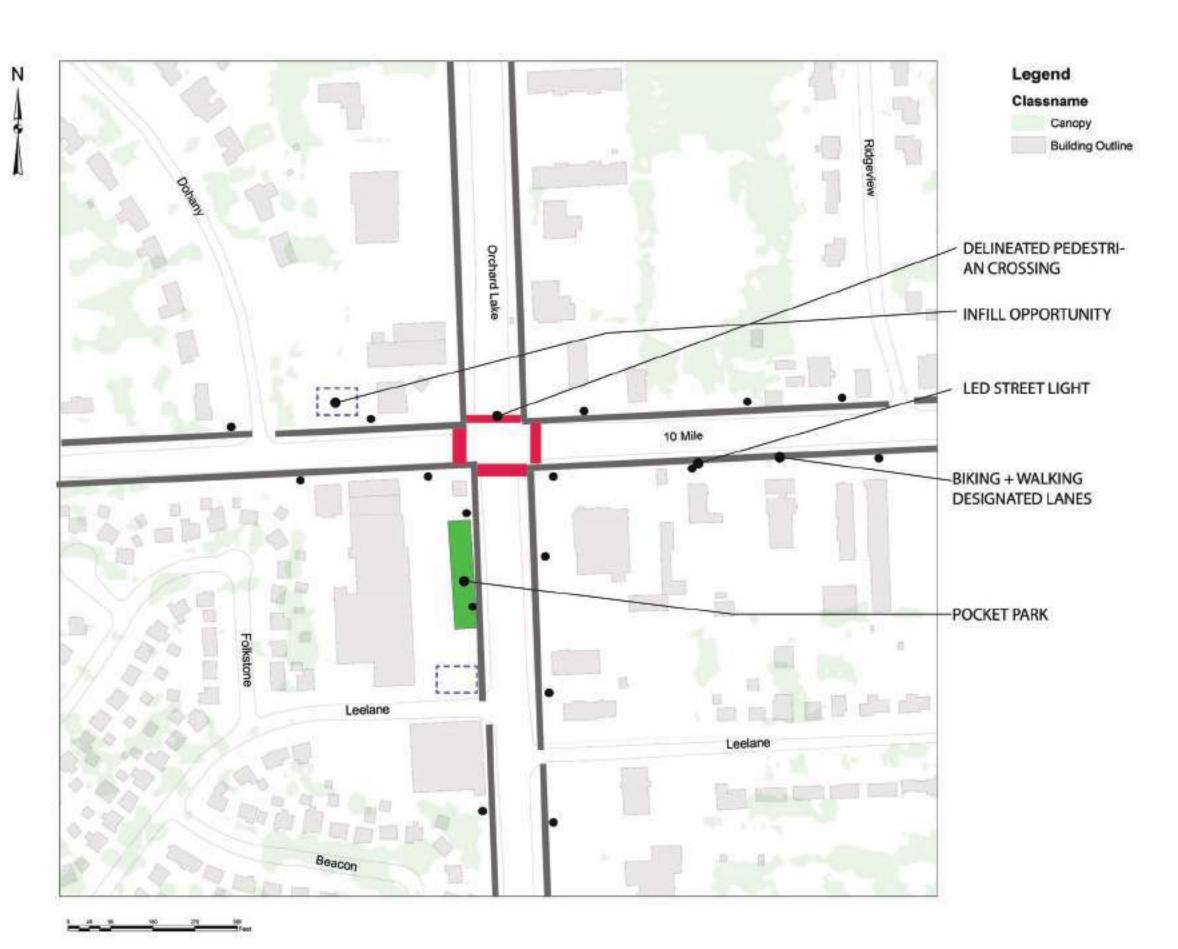
CONNECT COMMUNITY

- Intersection can serve as community connection of amenities, educational institutes, and public transportation.
- The intersection is actually rather symbolic of the societal exchanges between Farmington and Farmington Hills; this should be expressed in future design.
- Create public realm opportunities for people to engage with one another, and build community, building of
 of the precedent of Greene's.
- Create benefit for all surrounding subdivision.

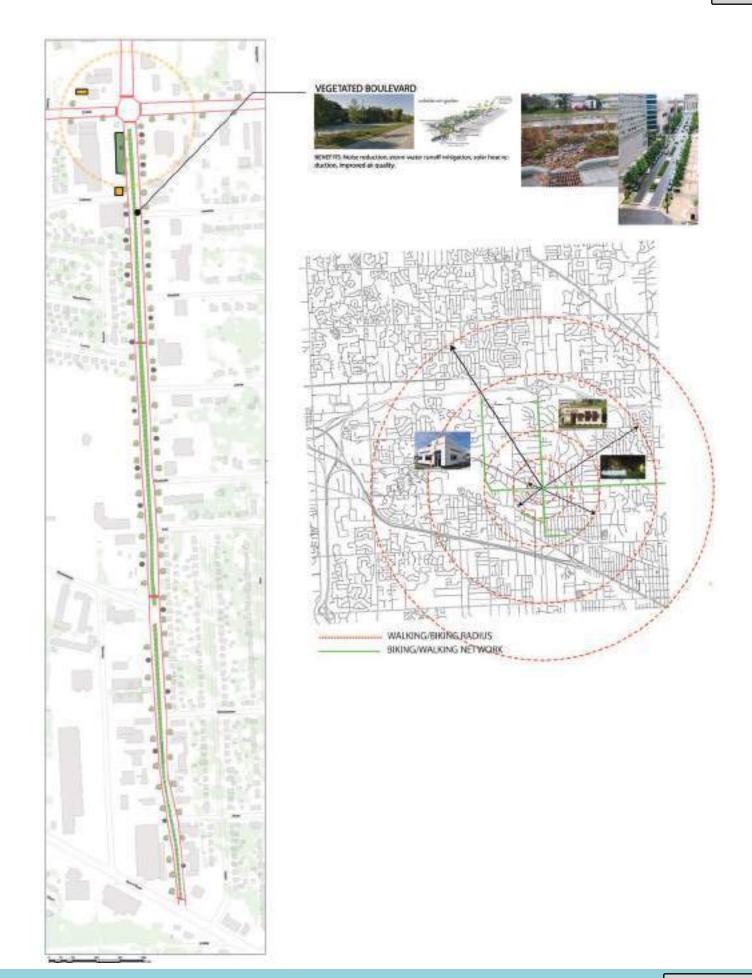
DESIGN FOR FUTURE DEMOGRAPHICS

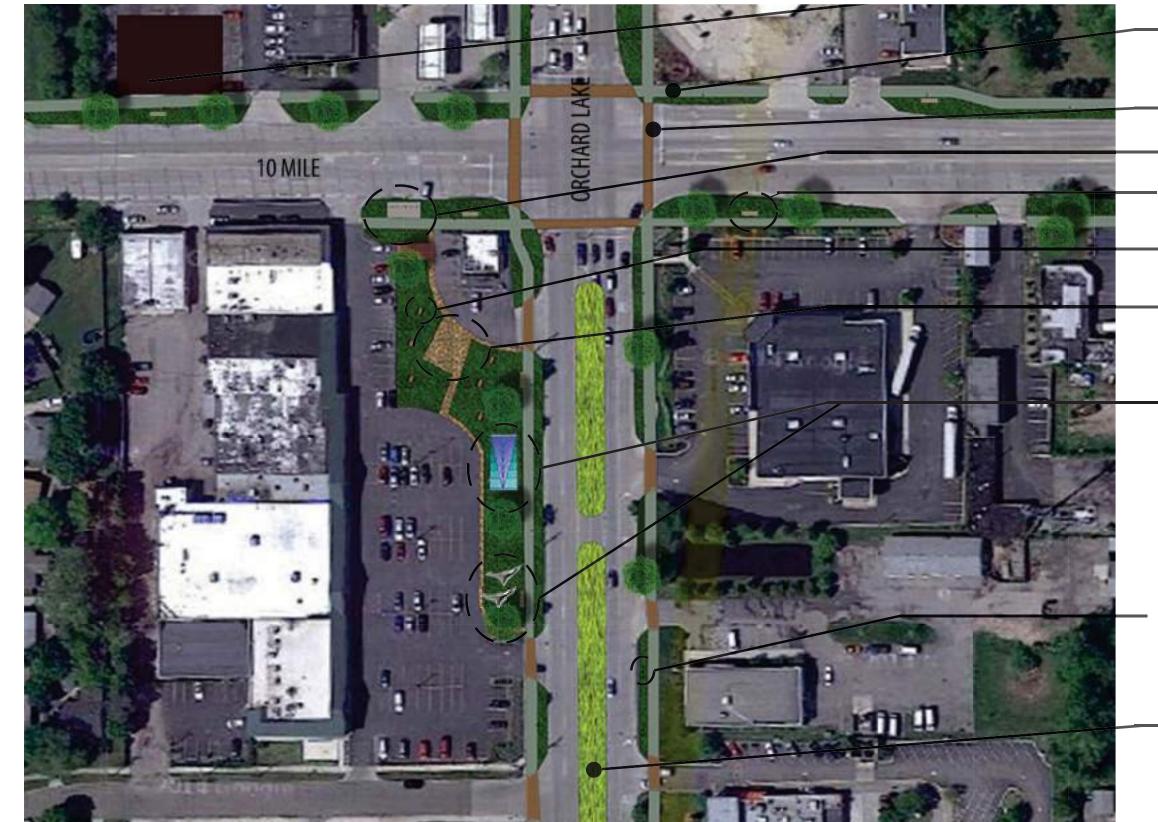
- Future predications indicate that over the next 20 plus years the age demographic of local residents will change dramatically.
- The area should be attractive to people primarily within the age range of 35-59.
- Consider how focus area can also be of value to children and teens. This age range is the nearly the second highest projected age demographic. And is important if the intersection is to be a central node for the schools in the area.
- The design proposal must also accommodate the elderly and retired.
- More people are actively seeking out walkable and sustainable communities to live in.

PROPOSED DESIGN









PAVED CROSSWALKS



BIKE PARKING

SITTING BENCHES

PICNIC BENCHES

PUBLIC GATHERING/OUTDOOR EVENT SPACE

PUBLIC ART INSTALLATIONS THAT CAPTURE AND REFLECT THE CULTURAL/SOCIAL **IMAGE OF THE COMMUNTIY**

STREET LIGHTS AT REGULAR AND CONTINUOUS INTERVALS



BIOSWALE THAT USES LOW RISE VEGETATION TO MAINTAIN BUSSINESS STREET VISIBILITY, WHILE MITIGATING STORM WATER RUNOFF

PROPOSED SUB-AREA PLAN

The proposed subarea plan seeks to increase pedestrian connectivity with enlarged shared biking/walking paths, pedestrian comfort is enhanced with more trees for shading and night time street lighting, and bike storage is accounted for. The intersection becomes a destination with a shared public park space that encourages social interactions and increased patronage of local businessmes. Environmental sustainable is prevalent by reducing negative soalr heat gains by reducing pavement with vegeation, and introducing a bioswale for stormwater management. The intersection also becomes a celebration of the boundaries of the two cities with art that is reflective of the local cultures a celebration of the boundaries of the two cities with art that is reflective of the local cultures are the contraction of the boundaries of the two cities with art that is reflective of the local cultures are the contraction also becomes a celebration of the boundaries of the two cities with art that is reflective of the local cultures are the contraction and the contraction of the boundaries of the two cities with art that is reflective of the local cultures are the contraction of the boundaries of the contraction of the contraction





REVISED
INTERSECTION
WITH PARK

10'0" SIDEWALKS FOR MUTLI-MODE WALKING AND BIKING

1st Phase 2nd Phase

PROPOSED PHASING

To begin the project it is recommended sidewalks are increased in width, and the intersection adapts suggested design revision to functions as a viisoning for an eventual redesign of the entirety of Orchard Lake Road to serves as a pedestrian corridor



PEDESTRIAN CROSSING ISLANDS



BIO-SWALE BOULEVARD

3rd Phase 4th Phase

PROPOSED PHASING

Next it is recommended to install temporary pedestrian islands that would instantly increase pedestrian mobility and safety to cross Orchard Lake Road. The last phase suggests continuing a bioswale dow the entire length of Orchard Lake Road between Ten Mile and Grand River.

APPENDIXES



Dearborn – population 98,153 Transit-oriented Development

The site would serve as a focal point in the community, designed to support local and regional commuter needs, establish connectivity between attractions and locations of interest within Dearborn, and complement the redevelopment of a vibrant downtown space.



Detroit – population 713,777 Brownfield Redevelopment

The Southwest Detroit project engaged neighborhood residents, businesses, and community organizations in developing concepts for the reuse of a vacant, city-owned brownfield at the intersection of Vernor and Livernois.

APPENDIX 6.A.a PLACE PLAN **PRECEDENTS**

economic revitalization based on an india comprehensive understanding of a community's place-based assets, and provides

The PlacePlans process is customized session, several public meetings to provide specific input and feedback, and direct large and small for communities across



Flint – population 102,434 Multi-modal Greenway

The Grand Traverse Greenway is a 3-mile-long former CSX railroad line that the City of Flint has been working to acquire and convert to a bike/walk trail with support from MDNR and MDOT



Alpena – population 10,483 Public Plaza

The city of Alpena is focusing on development of a plaza in the heart of downtown Alpena. The plaza would serve as a focal point in the community, designed to accommodate events and public gatherings

There are a great many senior citizen residents in this area who don't walk or ride bikes or work. Questions about public transport are better asked of non-residents who seek jobs in our area and small business owners who need them to staff their businesses. I can't stress enough how much I miss the grocery store at 10 Mile & Orchard Lake Rd. It would be good if the city could provide an incentive to a small grocer to take over the space.

I expected to be in my house for 5 years. It's been 15 now. I don't want to give up the convenience of being able to walk downtown and having the other services so close. Being able to walk across the street to get groceries has been one of the best things I didn't know was essential to a home.

If taxes remain so high, we may need to move. We'd like fewer services and lower taxes.

Thank you for taking our input into consideration! I love the idea of biking and walking to more places with my family. Quality of life issues: 1. Excessive dog barking and leash enforcement throughout the city. 2. Speeding cars, trucks and even school buses must slow down. 3. Encourage residents to take better care of homes and businesses. 4. A full traffic control light at Power and Shiawassee Roads and a flashing light crosswalk sign for the park with speed bumps in both directions. 5. Outdoor Drinking Fountains for people and pets located throughout the city green ways, bike trails, residential areas and any place where there is a thirsty crowd. 6. More public waste receptacles throughout the city not just downtown. 7. Security cameras throughout downtown. 8. Disallow door to door solicitation except for schools and scouts. 9. Agressive enforcement of noise ordinances. Lamar needs to be paved, there is no sidewalks. How can my grandchild walk to school? No transportation by bus provid-

currently not feasible to bike/walk to work with 20 mile commute we recreational bike during seasonal months around area in the evenings, to go to casual restaurants, city events downtown Farmington, etc. may have elderly parents come live with us that might use public transportation ** more/better/improved senior services I think the area already has good bike/foot paths I like living south of 696 because traffic is less - easy assess to 696, quick to get thru intersections/traffic lights s of 696 the Orchard Lake Rd median is more visual pleasant than n of 696 lived in several Oakland County areas with same good amenities i.e. Rochester Hills, Berkley, Huntington Woods (I appreciate the reduce traffic volumes in our immediate area!) - I am a 7th generation Detroiter from mid 1800s

Yes, It would be most helpful if you could inform the residents that this survey is coming to what a PlacePlan is. I've never heard or this and I don't understand what this means

for the intersection on 10 mile and Orchard Lake. Is there a plan to change this area?

Don't actually work. But I walk my 2 dogs 1/2 mile everyday. Could snow not tear up the edge of my lawn next to street. (Dohany)

Who is going to pay for all these potential changes? Bond proposals-like everything else?!

Unable to access website

I work 40 minutes away, and my spouse works 25 minutes away. The ability to ride bikes or take public transit would require a MAJOR change for the Detroit metro area. Having a train system like Chicago might work, but would be economically prohibitive, I'm guessing, as well as being a civil engineering nightmare.

Farmington remains a great community.

The City of Farmington has tremendous potential because it is a place where people can walk, run, bike etc....the more we can build up this infrastructure the more desirable this place will be. I'm 100% behind this initiative for Farmington.

Where is the focus on the 10 Mile and Orchard Lake intersection? This seems like a very poorly constructed questionnaire for the stated subject. As for walking or biking to work, we all might want to but distance and best use of one's time often precludes it. The howling winter winds outside my window also remind me that Michigan's weather is not always conducive to traveling unprotected. Personally, I make customer calls throughout the Metro Detroit area and the only way to do that is by car.

I look forward to your results in the Spring.

No able to walk

Thank you for taking an interest.

ORCHARD LAKE AND 10 MILE JUNCTION NEEDS RESURFACING. TRAFFIC IS NOT THE PROBLEM. 10 MILE ALSO NEEDS SERIOUS RESURFACING BETWEEN MIDDLE BELT AND ORCHARD LAKE ROAD.

Do not want to see sidewalks in our subdivisions.

I'm excited that Farmington/Farmington Hills is pursuing this funding and this direction. It will only help maintain the area as a destination to live, work and play in.

There has been great progress with projects like the repaving of 10 Mile west of Orchard Lake, and the downtown beautification work; hope to see continued progress!

The city has done an excellent job with downtown Farmington. Continue with that direction. Modest improvements spread widely will have less impact and drawing power than targeted efforts.

None

DO NOT pull the same kind of configuration on Farmington Rd between GR and S'wassee for the south of GR on Farmington Rd project. Whoever designed and approved

that project north of GR was out of their mind. Just because the fed's offer up some money (and the cities need to fill the remaining funds does not make it right. Spend the matching money elsewhere.

Maintain our roads with the money that was designated for the roads the gas tax. NO NEW TAXES! No roundabouts they cause minor accidents at a high rate.

Bike paths or lanes in this area would be a complete waste of taxpayer money.

with winter, it is frustrating not to be able to use sidewalk at length... some are cleared but in-between not so much and plows put the hills right on them...

No

Please don't do something stupid like putting in a roundabout & ruining the neighbor!

I have lived here my whole life.

This should be an inretesting exercise. Before I heard of the program for the area, my wife and I often commented that none of the existing businesses or architecture suggested a coherent plan - all haphazzard. No real appeal as a destination. There have been numerous failed businesses in the area. The demise (long ago) of Pizza Hut, the old Wendy's, Big Boy, Bellaire Lanes, and others rendered the intersection area way less family friendly. I'd like to ride my bike to the 12-Mile PO, but that would take quite a bit of planning to do so safely.

My feeling and disappointment with "planning" is that it's done to suit a "vision" of someone who won't make this area their home. This is a smaller-home, family & neighbors area, not another strip mall mocha-chino land waiting to happen for tax dollars and a newspaper feature story. A few questions will not do, just to say you asked for input from the community. Perhaps I should be on the committee so it doesn't get screwed up for everyone! I know this sounds harsh, but I truly fear just this kind of survey and my area becoming another messed up pseudo downtown. It should be kept a quite community - we are, after all, the "gateway to da hood", being up Grand River, so we don't want to attract attention for criminals (I read the paper).

Although beauty is important, so is budget. I'm concerned about the future of Farmington Hills. I saw Detroit go bankrupt. I don't want to see more of that. I would also like to keep our property taxes from rising. Improvements cost money.

I wish the sidewalk all the way around the block (10-mile to Middlebelt to 11-mile to Orchard Lake) was plowed in the winter. I run that path a LOT and now not so much because there are large sections not shoveled.

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APPENDIX L RESIDENT SURVEY COMMENTS

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Reduce taxes, on a fixed retirement income, school vouchers. am currently in the process of fixing it up to move in. Until now I have lived for ten years in Detroit's Corktown neighborhood. I chose this house specifically for its proximity to downtown Farmington, and this house was the closest to downtown that I could afford. I am very much looking forward to biking downtown in the summer, and I was very glad to see this survey in the mail and Farmington's acknowledgement of the importance of quality of place! Thank you for heading in the right direction!

We're disappointed in those who have occupied the strip mall's main store, the grocery. It's more of a foreign type store, not what we want. Really don't know why they've moved in there. Observations show this store, such as the previous owners don't get that many steady customers. So we shop elsewhere. We don't work, retired. We may not live here much longer. Been here over 40 years and may seek retirement elsewhere. We're surprised nothing's been done to this intersection earlier. Why? Basically, it looks old, and it is! The problem is there are major grocery stores not far from this area. You need to find something that would lure shoppers not just the occasional person coming in for a few items now and then. The intersection needs more trees and flowers or some kind of a garden arrangements to spruce up what we feel has been a drab spot to look at to say the very least. But may come a bit too late for us, if nothing's done within the next few years.

Farmington just isn't as appealing as it used to be!!! I moved here in 1948, and it just isn't as friendly as it used to be. What you have done to downtown is unforgivable!!!! It is not senior friendly. Everyone who works there takes the best parking places.

1. The police are doing a really great job as are the Parks & Rec. staff. 2. I would like to see police walking/biking throughout the city. 3. Encourage businesses and apartment complexes to install video cameras around their property to discourage car jacking and other crimes. 4. Continue planting trees, bushes and flowers in the downtown area and parks and including milkweed and butterfly bushes to encourage Monarchs. 5. Co-op with Disney Studios to host an annual children film festival at the Civic Theater that would boost our family friendly persona and raise money for school programs.

Keep the burger joint on the corner-people love it-but a grocer that is not ZimZam or whatever it is called would be great. And more trees!

Since I have moved to Farmington because shopping + eating was close, we have lost Sam's Club, Hallmark, Franks Nursery, Big Lots, Steak Ale, grocery store, Kohl's, two hardware stores, Tuesday Morning -which thankfully came back,

Ponderosa (went there at least 3 times a month). So I eat out in Noki + do all my shopping at my boyfriends neighborhood in Utica/Rochester, when at this house.

Build a "district"!!!! I have to assume that would bring F. Hills attention and increase the popularity of the city as a desired destination to live.

I've lived in Haynes 35yrs. I am anxious to move mainly due to our deteriorating roads. How did 10 mile west of Orchard get resurfaced before our roads which are in worse conditions?

At our age, smooth sidewalks and roads are very important. Our street is so bumpy and hazardous we can't safely walk on it. Totally disgraceful.

City of Farmington does a bang-up job with snow removal! Keep it up . . . and thank you!

Please renew the zoning board and the other departments with younger people, more opened minded! Don't make a white racist club out of Farmington Hills!!!

Not only is there a lack of relevant shopping within waking distance, such as the type of stores noted above, but the facade and parking lots of the shopping areas need to be upgraded. Additionally, the quality of some of the store already in the area need to be upgraded. For example, a fruit market recently opened at 10 Mile and Orchard Lake however it is sparsely stocked, the stock is of poor quality, and the stock is little of what an average shopper would be looking for. Half built buildings in the community look pitiful. The mosque at 8 and Merriman has been half built for years. There are unlicensed vehicles that never move in driveways all over the community. Young people have forgotten or never been told "do not litter". Everyday I pick up their candy wrappers after they walk home from school. They are too busy saving the earth to be concerned about their own street. General litter everywhere is really looking bad in Farmington Hills. The Orchard Lake exit on 696 looks straight out of the inner city with gravel, trash, car parts and junk everywhere. It even has 3 foot weeds growing out of the concrete. Restore the beauty of Farmington Hills!

When I drive thru Orchard Lake and Ten Mile I see a lot of parking spaces at the office buildings and storefronts. Further North on Orchard Lake there are small businesses in those parking lot areas near the road. Places to get coffee or Specialty Businesses.

I would only walk to places if they were close <1 mile. If more people walked of biked I would probably follow. Right now it just doesn't fit in and don't know if it ever could. Provide opportunities for seniors to exercise on a daily basis. If there is not a public restroom downtown, I suggest that one be established.

The most important aspect of this area is the ability to drive

easily though the area. Please do not make any changes that would slow down traffic in the area. There are plenty of sidewalks and I have no difficulty walking from my home to Walgreen's, the eye doctor, or any of the other businesses In the area.

I'm not sure if a public transportation stop is planned for Orchard Lake Road, but from my home, particularly in the winter, it would be a snowy, slippery walk to get to it. If there were a place to park/ride e.g. 10 Mile and Orchard Lake parking lot, or even the parking lot on Mooney, I would gladly park and ride.

The first part of survey is misleading. Several items are of equal importance even though they don't look like it. I think the new sidewalks are great for walking dogs. Would be nice for more-Power Rd. Also trash barrels maintained by the city at bus stops. Corners, along sidewalks. Need good sidewalks going East from Orchard Lake along Eleven Mile Rd.

Parking has become very difficult in the downtown area. Find private source of money for any changes- not more taxation.

Even though I myself am not physically able to walk to most destinations, I think it is essential for this community to be safe for pedestrians, and have safe reliable public transportation. It binds the community, promotes better health, and encourages development of local small businesses. Also, continue to maintain a variety of parks!

Thank you for the survey. I would appreciate more walkability in the immediate neighborhood.

Think long and hard before making any changes. Everything is fine now, don't mess it up.

Love that you did a survey. Asking the people who live in the community seems obvious, but is often overlooked. Good luck and I look forward to any improvements that will be made to the community!

We need better grocery store options, closer to the area. Zam Zam is not cutting it.

Downtown Farmington is a comfortable area but lacks diversity. Of course, there is a fine line between allowing big restaurant chains in the area and keeping the small town ambiance vs. attracting elements that are not conducive to the small town charms. Having meaningful but careful change can be attractive to locals as well as increasing the tax base. How about doing something with the old K-Mart property at Halstead = Grand River??? A Trader Joes, Meijer, Various restaurants, Etc..Would be very nice, + frequented. Or, A Farmington Recreation Center, similar to Linvonia's. I don't walk when it is too cold and icy out, so a couple months of the year. If I could walk to a bus stop I may be more motivated. Thanks for doing this project! I would

I don't walk when it is too cold and icy out, so a couple months of the year. If I could walk to a bus stop I may be more motivated. Thanks for doing this project! I would love to see a more walkable, and better designed neighborhood intersection. Also, The strip mall at Grand River and Orchard Lake really needs some help too (think Big Lots). Someone needs to force that strip mall owner to do some repairs, it is bringing the area down. Half that strip mall parking lot could be turned into green infrastructure. Pedestrian safety awareness program or signage would be nice. We have nearly been run down in the crosswalk at 10 and Orchard Lake several times.

Maintenance of sidewalks. Must ensure snow is cleared in winter and vegetation is cleared in summer. Many areas have vegetation that partially or completely blocks visibility of pedestrians/bikers to vehicles and vice versa in the area of orchard lake between 10 mile and 11 mile. There are areas where sidewalks/bike paths just disappear or are non-existant. Church on 12 mile between orchard lake and middlebelt - there is sidewalk on either side, but you ,must go through a parking lot while on church property. The strip at 10 mile should be further developed to be more community oriented with more local shops.

I don't see what this has to do with the 10 Mile-Orchard Lake intersection. The bus that had a route to my place of work was discontinued prior to 2005. I did catch it at that corner. I think it's safe to assume that most people who live in Farmington don't work on Farmington. Riding a bike outside the subdivisions is treacherous at best. Anyone biking to work would need to use the main thoroughfares and necessarily navigate through heavily congested, extremely dangerous-for-bikers, areas at all points of the compass. To wit: 12 Mile-Orchard Lake (unsafe for cars!), 10 MILE-ORCHARD LAKE (what's with those new traffic lights, anyway? Sometimes I don't know what's going on in my car), Halstead-Grand River (scary), Eight Mile-Grand River (multiple opportunities to die on a bike), Eight Mile-Middlebelt, and many similar intersections in between (IMO, it's just a question of time until someone is taken out on that ill-concieved yet scenic bike path on Power between Shiawassee and Grand River...). Farmington city planning, like most of suburban America, began with and evolved to accommodate vehicle traffic. Whatever you do at 10 and Orchard, while it might be prettier I can't imagine we'll see hoards of Farmington folk flocking to work on their bicycles. Good luck with

We have a great city, and it could be even better. Very much appreciate all your efforts! Please consider redoing the garish Christmas lights at city hall. The blue and purple are particularly offensive. People that visit us comment on how unat-

tractive they are. Compared to the lovely high class look of other area downtowns, it is a bit embarrassing. thank you for the opportunity to share my thoughts. Incentive for local businesses to have curb appeal, nice land-scaping. Attention to crumbling roads.

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015 Reference Number

Submitted by: Kevin Christiansen, Economic Community Development Director

<u>Description:</u> Redevelopment Ready Communities Resolution

Requested Action:

Move to adopt the resolution as presented to implement the recommendations necessary to receive Redevelopment Ready Communities certification from the Michigan Economic Development Corporation (MEDC).

Background:

Joseph Meyers of the Michigan Economic Development Corporation (MEDC) presented the City of Farmington's Report of Findings for the Redevelopment Ready Communities (RRC)Program at the October 19th Regular City Council Meeting. City Council must adopt a resolution of support to proceed with the program and, ultimately, obtain RRC certification.

Agenda Review

Review:

Kevin Christiansen Pending

City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/30/2015 11:13 AM by Melissa Andrade

Page 1

RESOLUTION NO. (ID # 2045) RESOLUTION NO. 11-15-

CITY OF FARMINGTON

OAKLAND COUNTY, MICHIGAN

A RESOLUTION OF THE FARMINGTON CITY COUNCIL ADOPTING THE IMPLEMENTATION OF RECOMMENDATIONS NECESSARY TO RECEIVE REDEVELOPMENT READY COMMUNITIES CERTIFICATION FROM THE MICHIGAN ECONOMIC DEVELOPMENT CORPORATION (MEDC).

At a meeting of the City Council of the City of Farmington, Oakland County, Michigan, held on the 2nd day of November, 2015, at the City Hall, 23600 Liberty Street, Farmington, Michigan, 48335.

48335.	
The following resolution was offered by	and
WHEREAS, the City of Farmington has engaged in the MEDC Redevelor Communities Program, including entering into a Memorandum of Understanding and undergoing an evaluation of the City's redevelopment practices as recedevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's redevelopment Ready Communities Report of Findings dated September 2015; and the City's Ready R	with the MEDC eported in the
WHEREAS, the MEDC has developed a program for certifying Redevelor Communities and the City of Farmington desires to achieve that certification by best practices and recommended strategies for redevelopment; and	
WHEREAS, the City of Farmington is currently updating its Master Plan a recommendations and technical assistance to ensure that development appropriately addressed in that document; and	
WHEREAS, the program includes evaluating the strong partnerships with Ci commissions related to development including the City Council, Planning Commis Zoning Appeals, and Downtown Development Authority; and	
WHEREAS, after review of the Redevelopment Ready Communities Report of City of Farmington is willing to proceed with the Redevelopment Ready Community to continue to implement actions toward certification, and to submit quarterly progorder to obtain Redevelopment Ready Communities certification.	nities Program,
NOW, THEREFORE, BE IT RESOLVED that the City of Farmington, through its authorizes the implementation of recommendations necessary to receive Ready Communities certification from the Michigan Economic Development (MEDC).	Redevelopment
AYES: NAYS: ABSTENTIONS:	
STATE OF MICHIGAN)	

Updated: 10/30/2015 11:13 AM by Melissa Andrade

Page 1

Resolution (ID # 2045))ss	Meeting of November 2, 2015
COUNTY OF OAKLAND)	
Michigan, do hereby certify that the foregoi	Clerk of the City of Farmington, Oakland County, ng is a true and complete copy of a Resolution armington at a duly-called meeting held on the 2 nd is on file in my office.
IN WITNESS WHEREOF, I have hereunto aff,	ixed by official signature this day of 2015.
	SUSAN HALBERSTADT Clerk, City of Farmington

Updated: 10/30/2015 11:13 AM by Melissa Andrade

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015

Reference Number (ID # 2042)

Submitted by: Kevin Christiansen, Economic Community Development Director

Description: Grand River-Halsted Plaza PUD Amendment

Requested Action:

Approve

Background:

This item is review and consideration to amend the Grand River-Halsted Plaza PUD in order to modify the required/approved screening wall along the east side of the site behind The Tile Shop. Proposed plans are attached for your review and consideration.

Agenda Review

Review:

Kevin Christiansen Pending

City Manager Pending

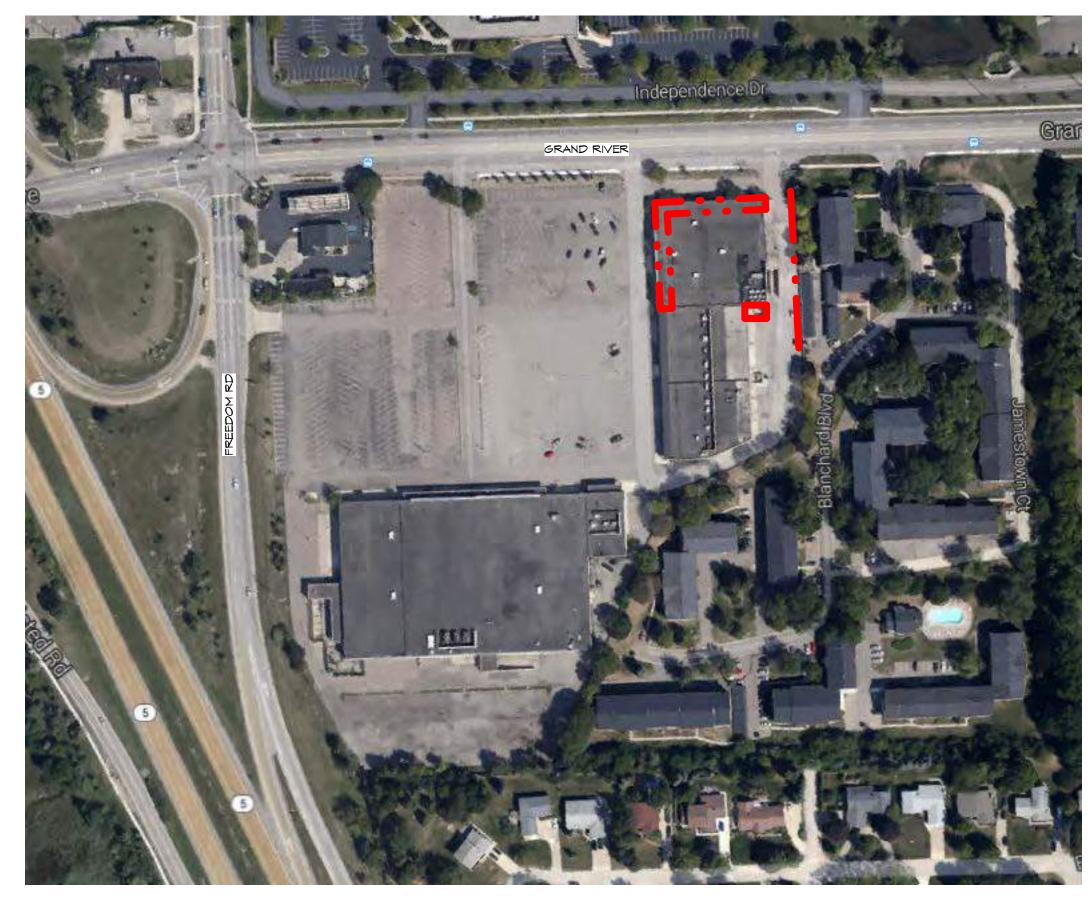
City Council Pending 11/02/2015 6:00 PM

Updated: 10/30/2015 10:57 AM by Lisa McGill

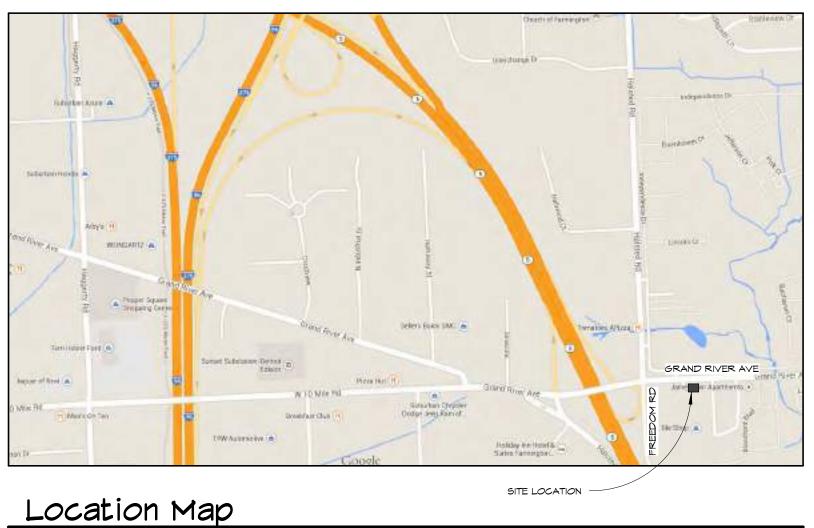
Page 1

Tile Shop Renovation

37025 Grand River Ave. Farmington, MI



Site Location



SIEGAL/TUOMAALA **ASSOCIATES ARCHITECTS &** PLANNERS INC.

> 29200 northwestern hwy suite 160 southfield, mi 48034

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Details Structural Details

Existing Conditions & Demo Plan Site Plan Overall PUD Plan Grading Plan Drainage Plan Utility Plan Soil Erosion Control Plan Landscape Plan Common Area Landscape Plan Construction Details Construciton Details

Storm Plan & Profile

Oakland County SESC Details
Traffic Plan

Index of Drawings

Floor Plan Enlarged Plans Roof Plan Elevations

Building Sections

project name:

Tile Shop Renovation

project location: 37025 Grand River Ave. Farmington, MI



date/ revision:

■ May 29, 2015 Bids ■ July 23, 2015 ■ Aug. 03, 2015 Bulletin 2 (Revised) ■ Sept. 08, 2015 (Revised per OHM)

sheet title:

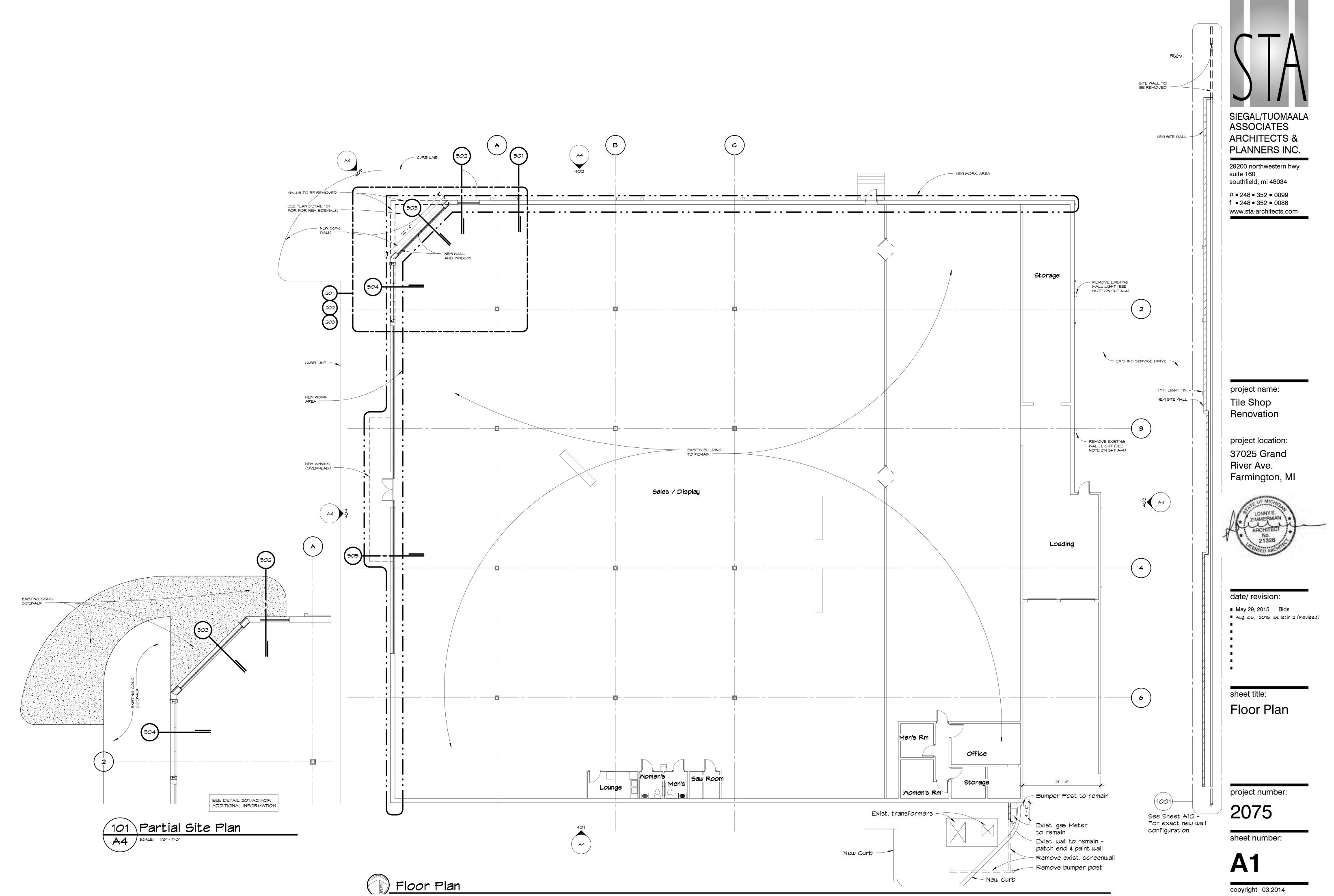
Cover Sheet

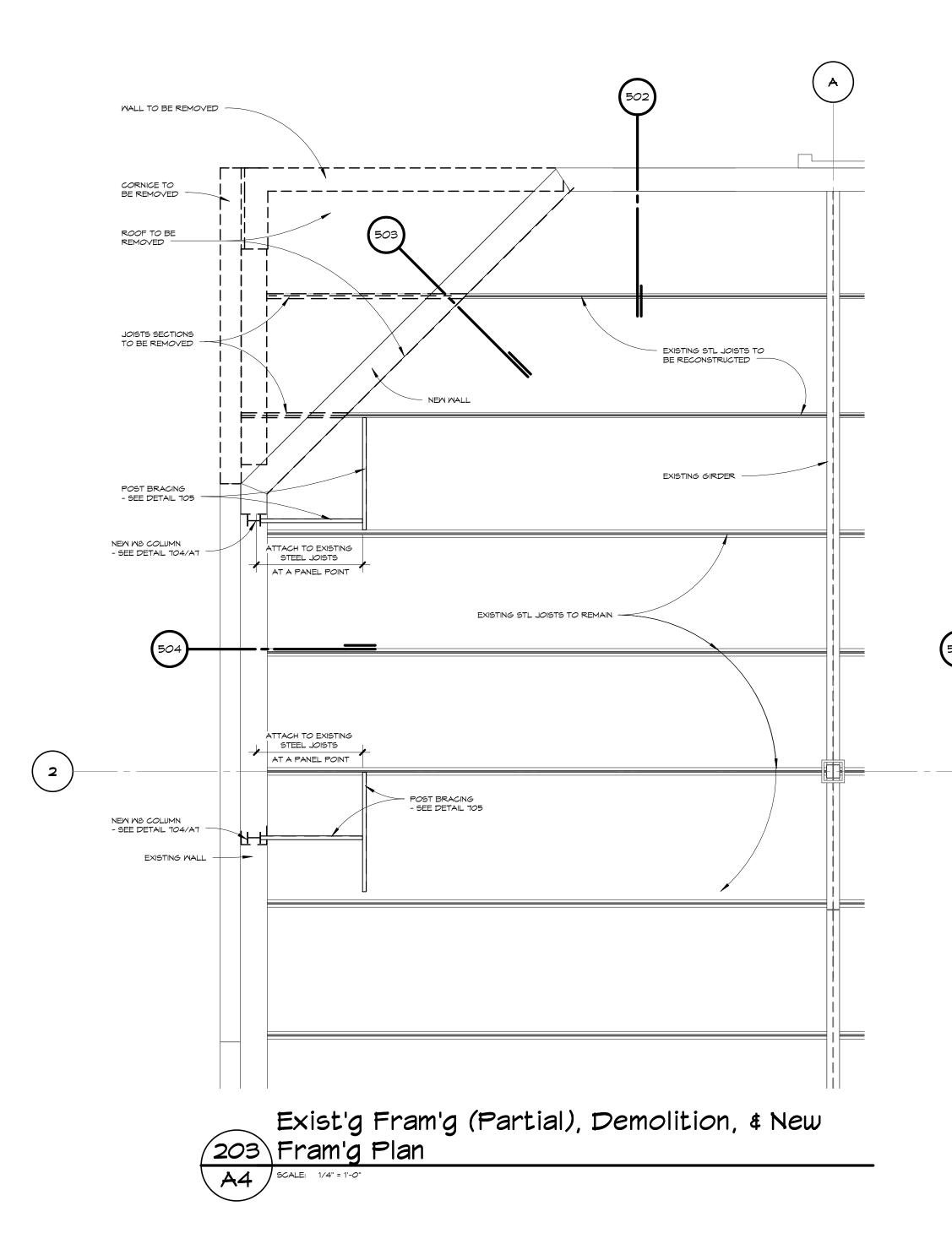
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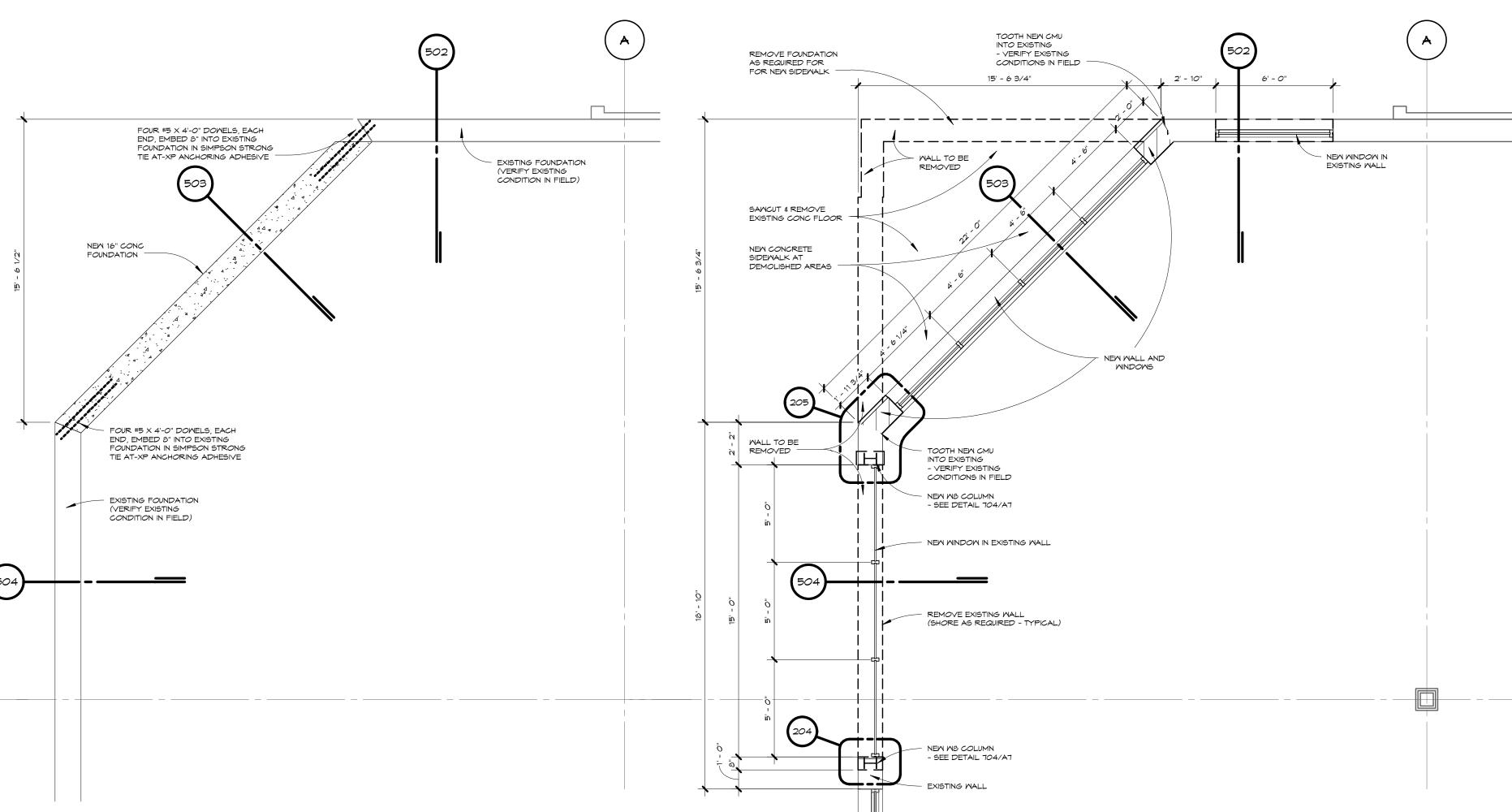
2075

sheet number:

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201 Enlarged Floor Plan
A1 SCALE: 1/4" = 1'-0"

NEM 1" INSUL CLEAR GLASS IN ALUM FRAMING - PAINT P2 @ EXTERIOR — BACKER ROD & SEALANT TILE SILL BEYOND - COORDINATE W/ TENANT EIFS - COLOR 1 ON 1 1/2" RIGID INSULATION ON AIR/MATER COATING ON 12" CMU SEALANT GYP BD RETURN TOOTH NEW CMU INTO EXISTING - VERIFY EXISTING CONDITIONS IN FIELD NEM 1" INSUL CLEAR GLASS IN ALUM FRAMING - PAINT P2 @ EXTERIOR — BACKER ROD & SEALANT PRE-FIN METAL FLASHING BELOW EXISTING CMU - VERIFY EXISTING CONDITIONS IN FIELD BACKER ROD & SEALANT EIFS - COLOR 1 ON 1 1/2" RIGID INSULATION - 1/2" GYP BD ON METAL FRAMING (TYP) - COORDINATE PAINT STEEL COLUMN - SEE DTL 704/A7 COLOR W/ TENANT EXISTING EIFS - PAINT P1 EXISTING EIFS - PAINT P1 BACKER ROD & SEALANT NEW M8 COLUMN - SEE DETAIL 704/A7 EIFS - COLOR 1 ON 1 EXISTING CMU - VERIFY EXISTING 1/2" RIGID INSULATION CONDITIONS IN FIELD BACKER ROD & SEALANT GYP BD RETURN

205 Plan Detail
A2 SCALE: 1 1/2" = 1'-0"

TILE SILL BEYOND

204 Plan Detail
A2 SCALE: 1 1/2" = 1'-0"

- TILE SILL BEYOND - COORDINATE W/ TENANT

SEALANT

- GYP BD RETURN

SHIM SPACE

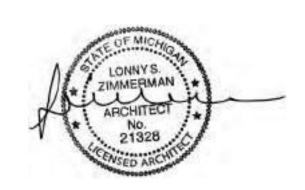
- COORDINATE PAINT COLOR W/ TENANT SIEGAL/TUOMAALA ASSOCIATES ARCHITECTS &

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project name: Tile Shop Renovation

project location: 37025 Grand River Ave. Farmington, MI



date/ revision:

May 29, 2015 Bids
June 12, 2015 Bulletin 1

sheet title:
Enlarged
Plans

project number:

2075

sheet number:

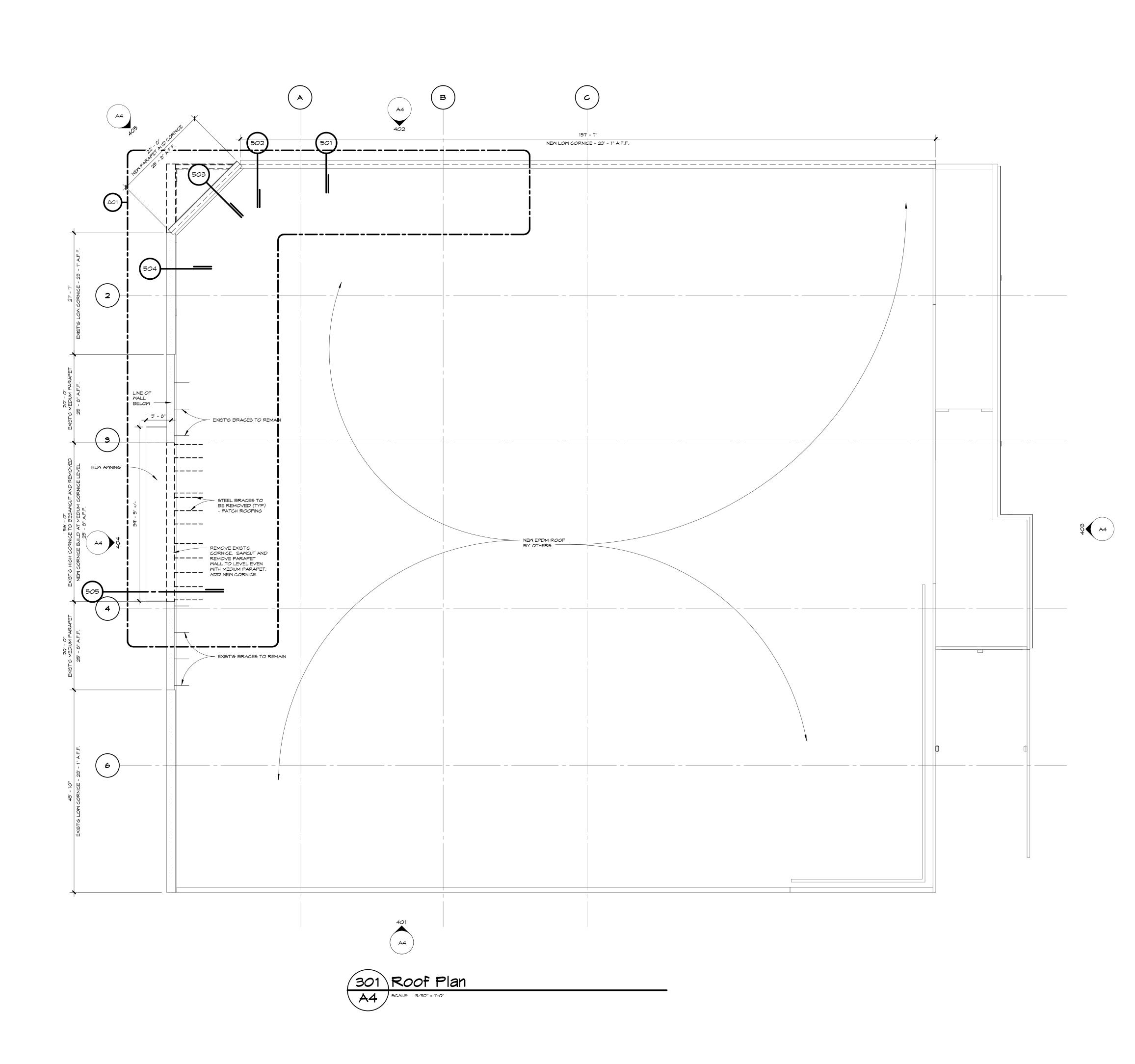
A2

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202 Foundation Plan

FLASHING BELOW

NEW 1" INSUL CLEAR GLASS IN ALUM FRAMING - PAINT P2 @ EXTERIOR - PRE-FIN METAL FLASHING BELOW





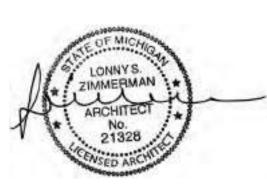
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project name: Tile Shop Renovation

project location: 37025 Grand River Ave. Farmington, MI



date/ revision:

■ May 29, 2015 Bids■ June 12, 2015 Bulletin 1

sheet title:
Roof Plan

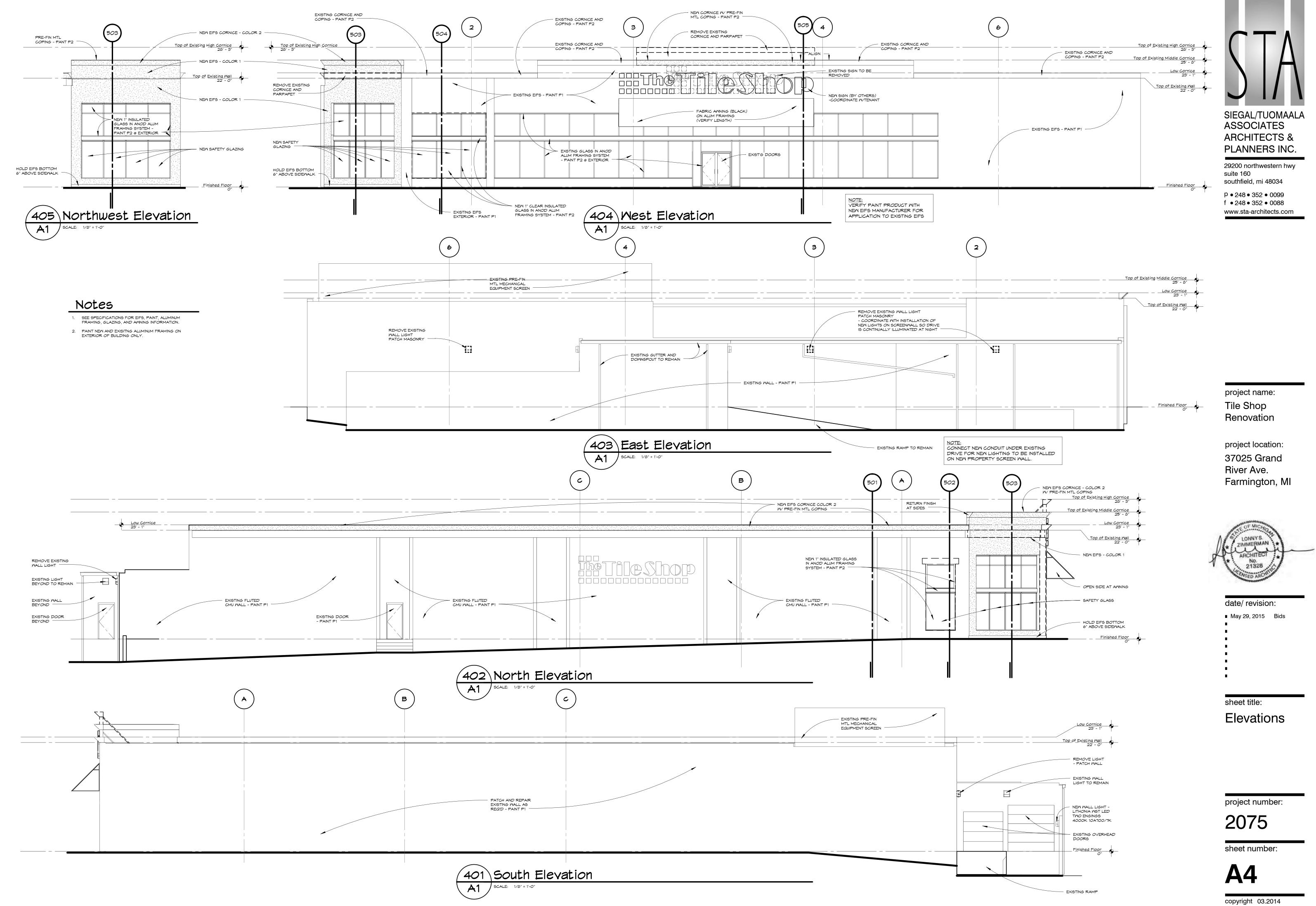
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2075

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A3

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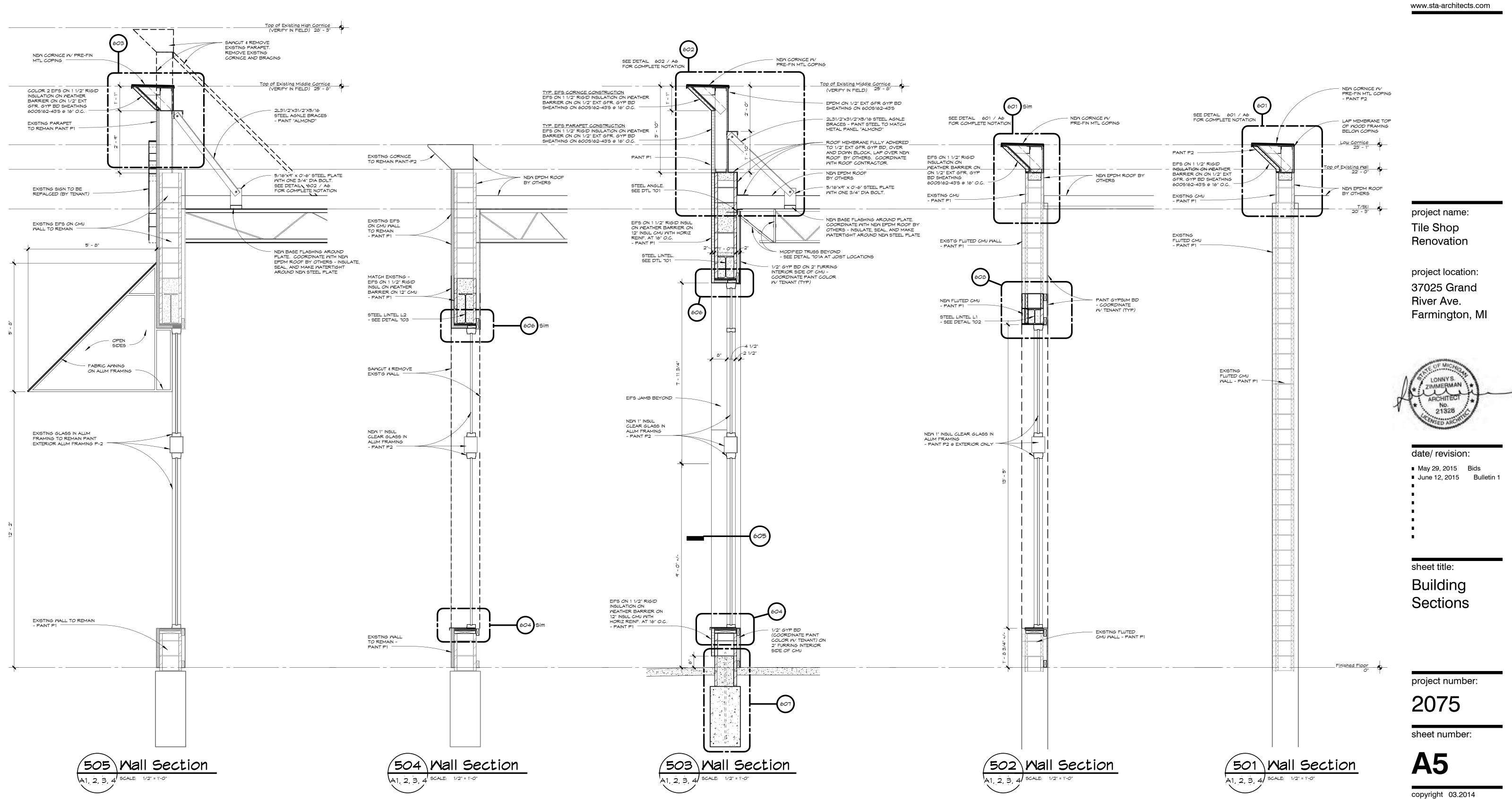
cket Pg. 101

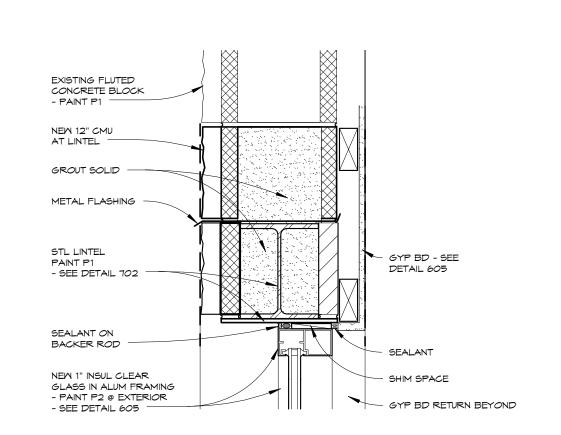


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STL BRACE

UP 1/2" EXTERIOR GFR GYP BD SHEATHING, UP AND OVER CORNICE FRAMING

NEW STEEL BRACE

TO REPLACE EXISTING

SEE DETAIL 602 / A6 FOR CONTINUATION

DIMENSIONS

- SEE DETAIL 602 / A6

FOR COMPLETE NOTATION

PRE-FIN MTL COPING OVER

CAP EXISTING STUD (VERIFY

- SAM CUT & REMOVE EXISTING METAL PANEL

EXISTING CONDITION IN FIELD)

ROOFING MEMBRANE

SEE DETAIL 505 / A5

FOR CONTINUATION

VERIFY EXISTING

PRE-FIN MTL COPING OVER CORNICE FRAMING

SEALANT ON

COLOR 2

BACKER ROD

TYP. EIFS CORNICE

SEE DETAIL 601 AND

CONDITIONS IN FIELD

EIFS STARTER STRIP

BACKER ROD

WITH DRIP EDGE

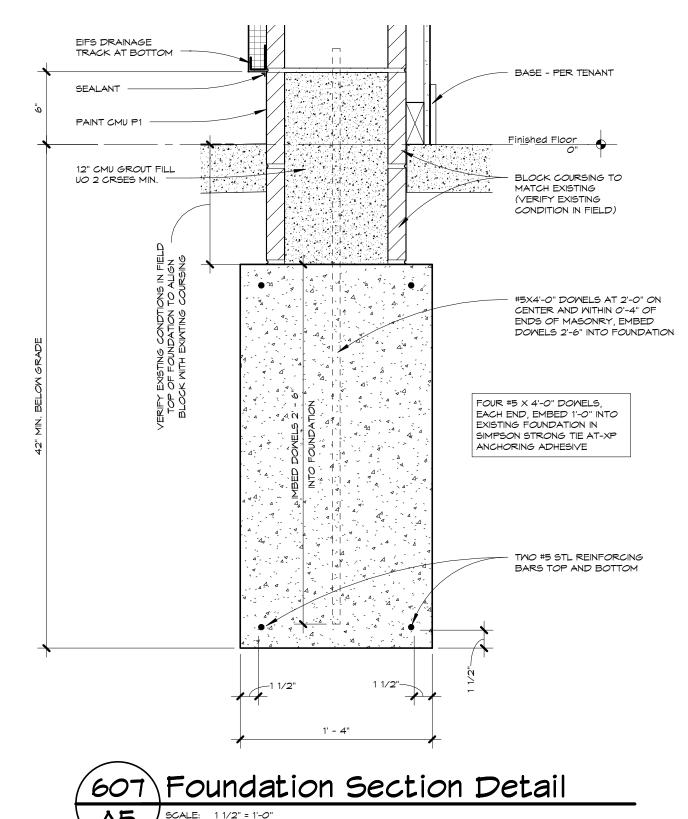
EXISTING WALL

COLOR 1

PRE-FIN MTL FLASHING

CONDITION IN FIELD)

CONSTRUCTION
TO REMAIN (VERIFY EXISTING



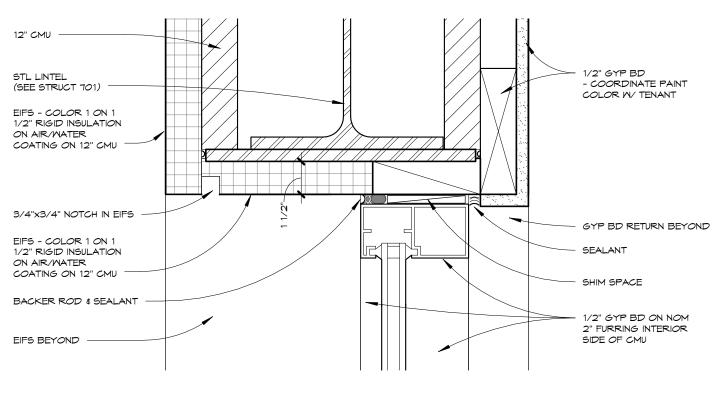


New Cornice and Parapet

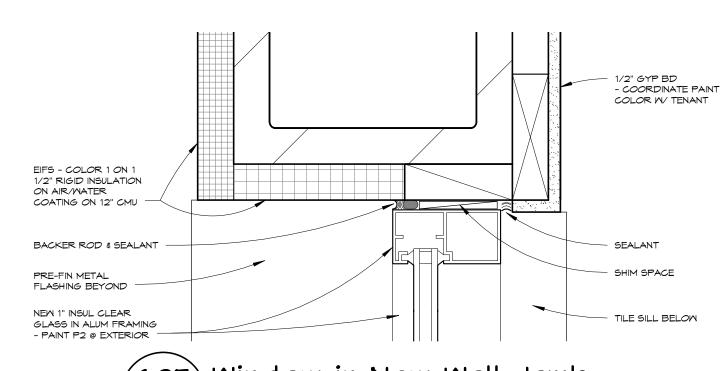
Attachment: 2075B - The Tile Shop - Architectural Sheet Only 10.29.15 (2042 : Grand River-Halsted Plaza PUD Amendment)

602 at New Mall

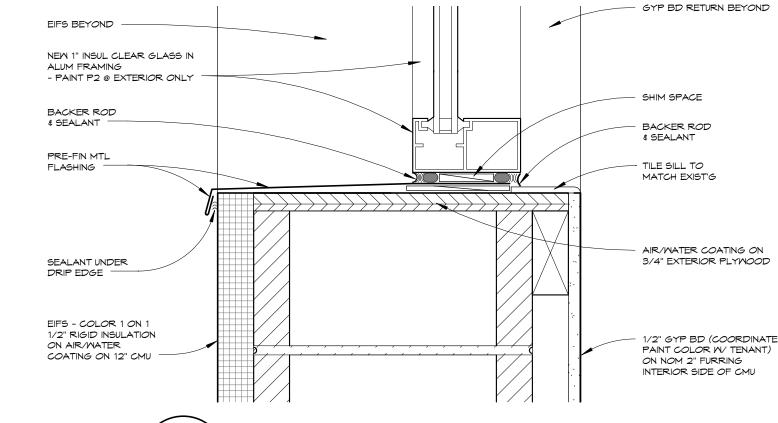
SCALE: 1 1/2" = 1'-0"



606 Mindow in New Mall Head SCALE: 3" = 1'-0"



605 Window in New Mall Jamb A5 SCALE: 3" = 1'-0"



601 New Cornice at Existing Wall

project name: Tile Shop

Renovation

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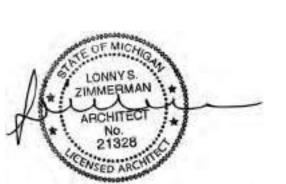
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suite 160

project location: 37025 Grand River Ave. Farmington, MI



date/ revision: ■ May 29, 2015 Bids ■ June 12, 2015 Bulletin 1

sheet title: **Details**

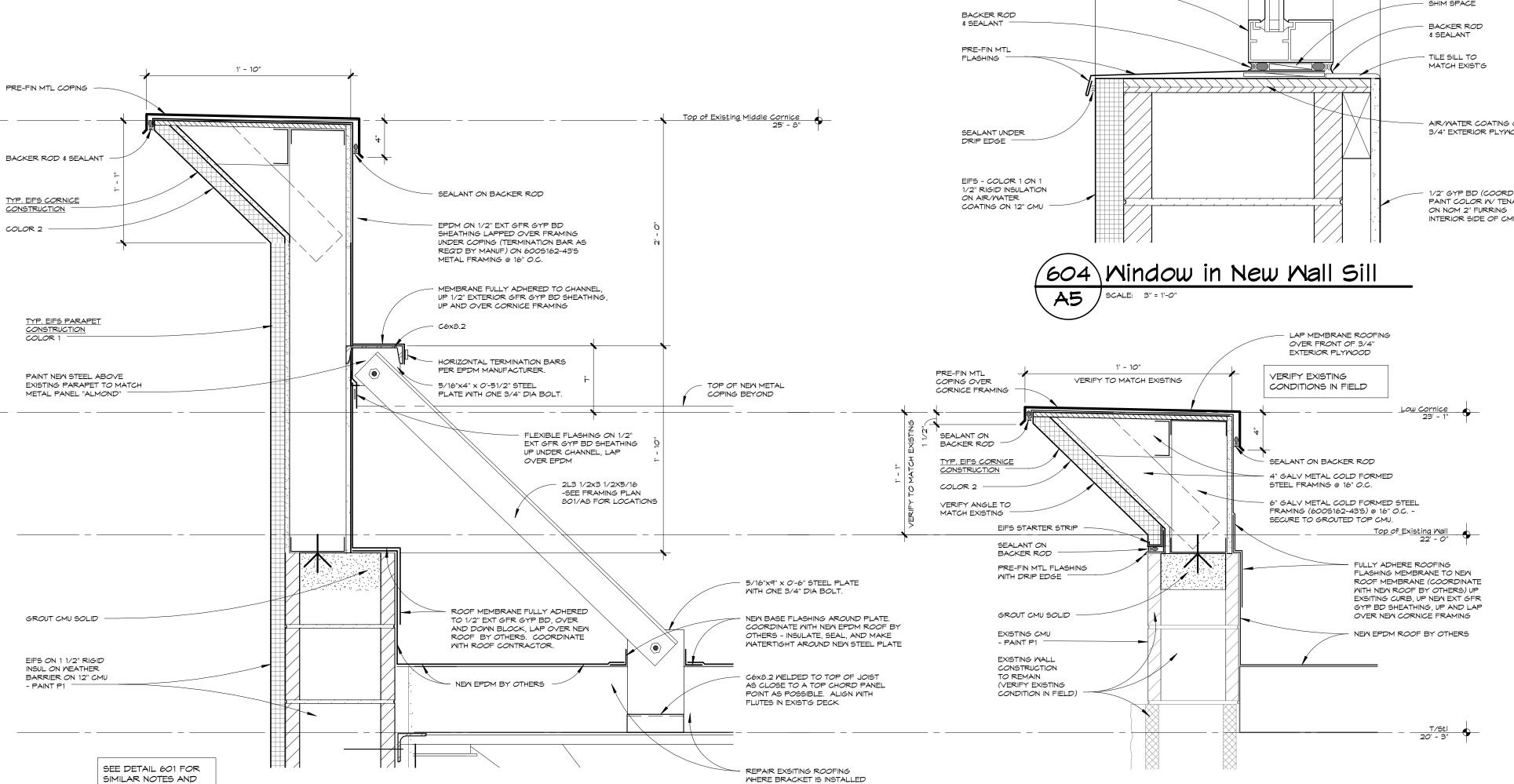
project number:

2075

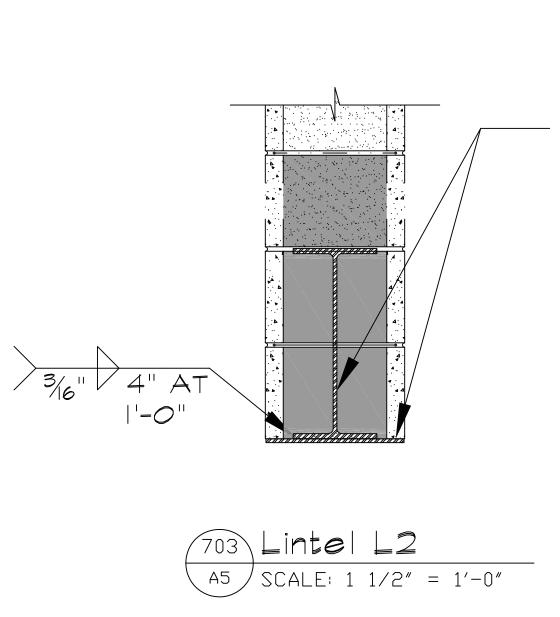
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602 FOR SIMILAR NOTES AND DIMENSIONS 603 New Cornice at Existing Parapet

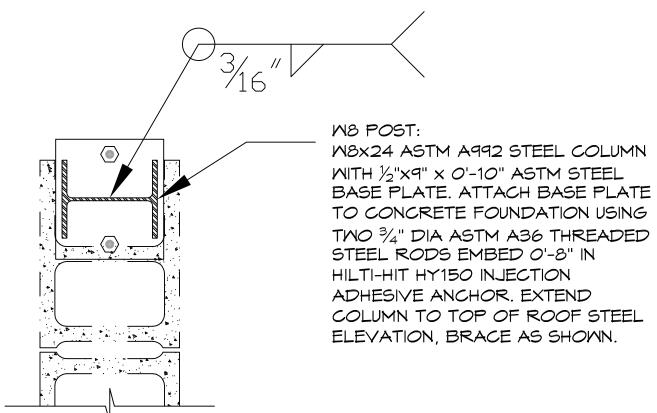


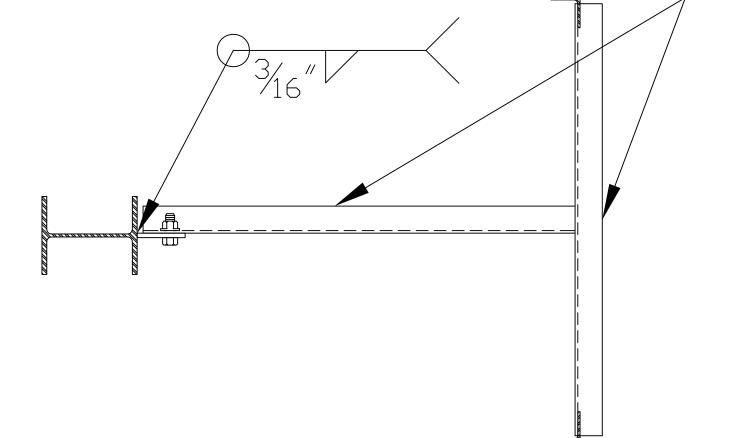
AND MAKE MEATHERTIGHT



701 New Mall Lintel
A5 SCALE: 1 1/2" = 1'-0"

LINTEL AT 15'-O" OPENING: W16x36 ASTM A992 STEEL BEAM MITH $\frac{5}{6}$ "x11 $\frac{1}{2}$ " ASTM STEEL PLATE. ATTACH EACH END TO M8x24 ASTM A992 STEEL COLUMN USING $2L4\times3\times\frac{5}{16}\times O'-11\frac{1}{2}"$ ASTM A36 STEEL ANGLES WITH FOUR ROWS OF ASTM A325 BOLTS.





BRACE FOR W8 POST: C8x11.5 ASTM A36 STEEL CHANNEL. ATTACH TO M8 COLUMN USING L4x3x $\frac{5}{16}$ x $O'-5\frac{1}{2}$ " ASTM A36 STEEL ANGLE WITH TWO 3/4" DIA ASTM A325 BOLTS. ATTACH TO EXISTING STEEL JOISTS AT A PANEL POINT, AS SHOWN.



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project name:

Tile Shop

Renovation

project location:

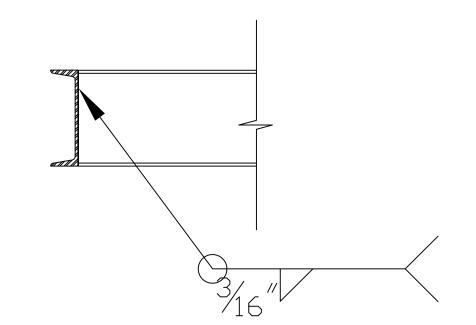
37025 Grand

River Ave.

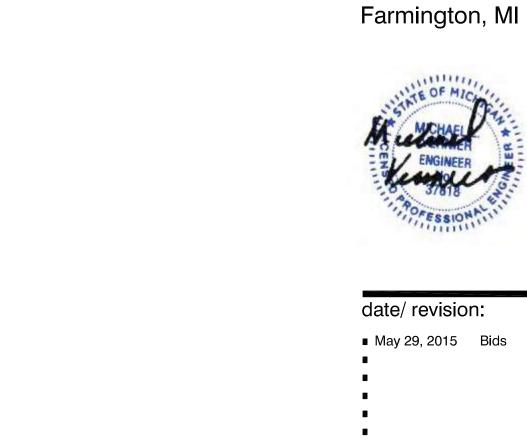
704 N8 Post

A2 SCALE: 1 1/2" = 1'-0"





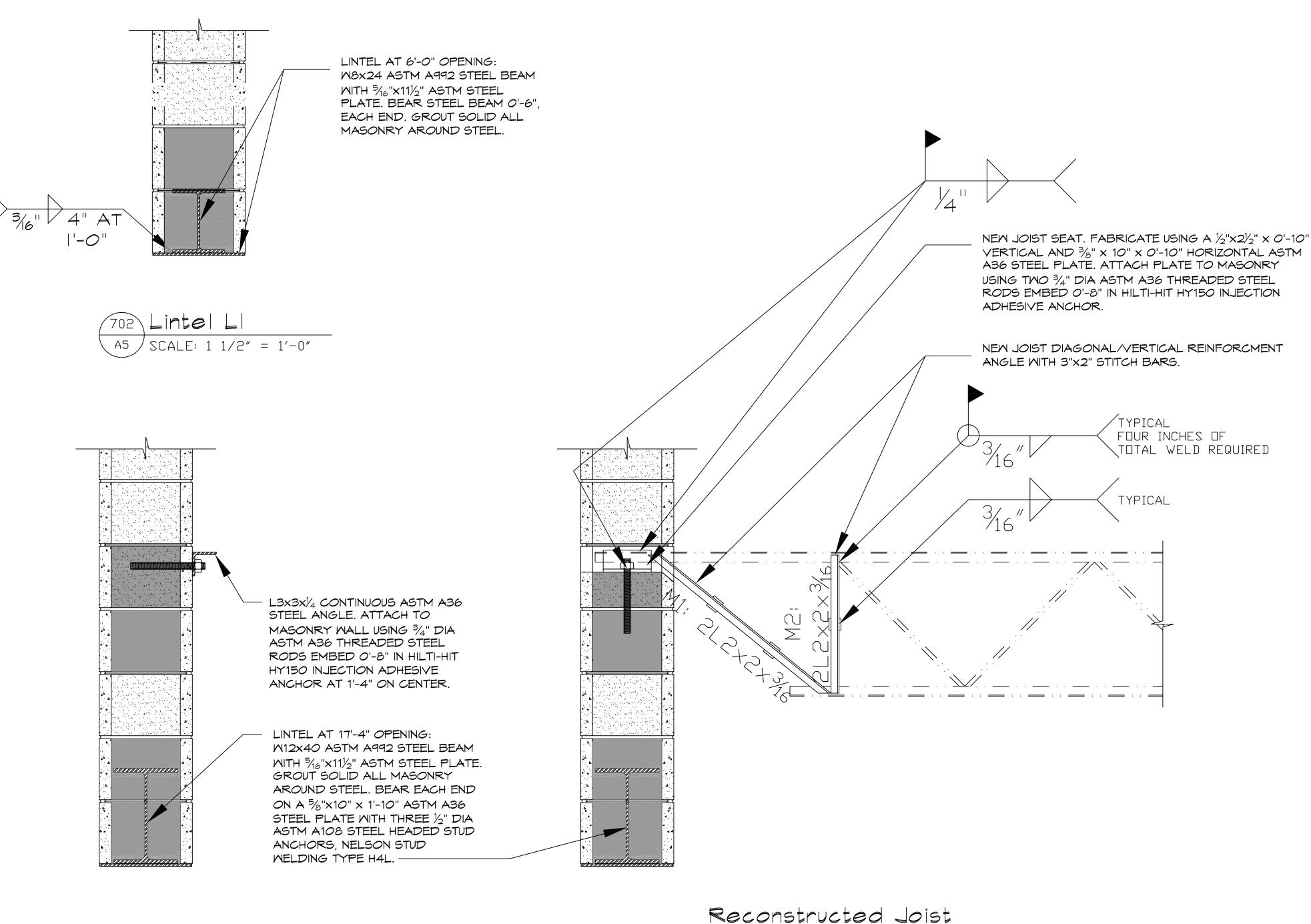
Typical Attachment 706 of C8 to C8 $\sqrt{A7} / SCALE: 1/2'' = 1'-0''$



TOP AND BOTTOM

sheet title: **Details**

2075



701A at New Mall Support A5 | SCALE: 1 1/2" = 1'-0"

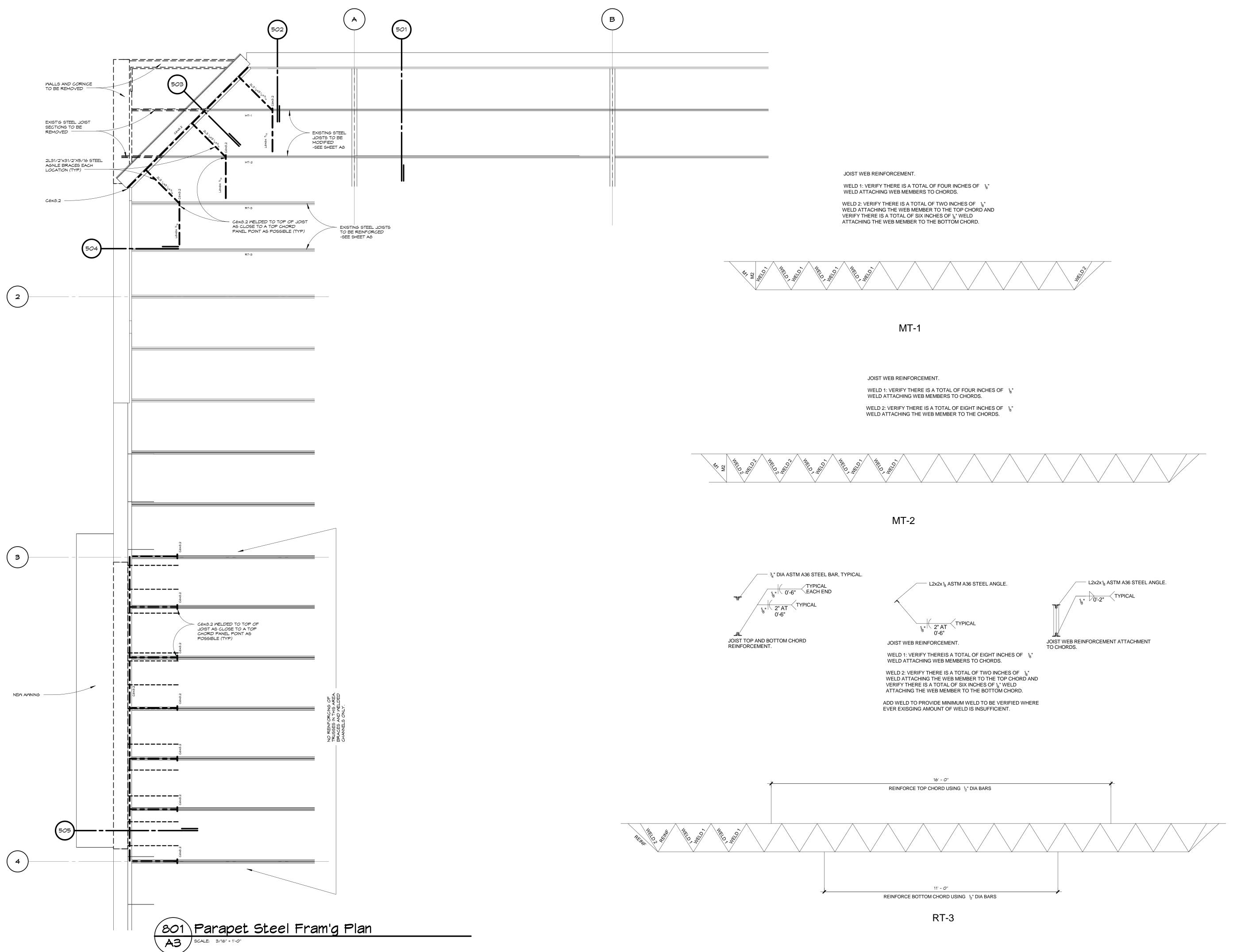
Typical Attachment 707 of C8 to Joist A7 SCALE: NOT TO SCALE

_2½×2½×¾₁₆,

project number:

sheet number:

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project name: Tile Shop

Renovation

project location: 37025 Grand River Ave. Farmington, MI



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Details

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A8

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1.0 GENERAL REQUIREMENTS:

A. AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201-2007 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION FORMS A PART OF THIS SPECIFICATION AND IS AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ARCHITECT

B. THE CHARACTER & SCOPE OF WORK ARE ILLUSTRATED BY THE WORKING DRAWINGS. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL THE DRAWINGS & SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF HIS WORK. DO NOT PLACE DUCTS, PIPING, CONDUIT OR ANY OTHER OBSTRUCTION SO AS TO IMPAIR REQUIRED CEILING HEIGHT AND CLEARANCES FOR LIGHTING FIXTURES, ETC. THE CONTRACTOR SHALL PROTECT EXISTING ADJACENT FACILITIES TO REMAIN FROM DAMAGE.

C. PRIOR TO WORK, CONTRACTORS SHALL LOCATE AND VERIFY ALL EXISTING UTILITIES AND SITE CONDITION IN AND AROUND THE

D. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, AS WELL AS ALL DIMENSIONS & CONDITIONS INDICATED IN THE DRAWINGS, PRIOR TO ACTUAL CONSTRUCTION. ANY VARIATION FROM CONDITIONS INDICATED IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

E. THE CONTRACTOR SHALL HAVE RESPONSIBILITY FOR A MEANS AND METHODS OF THE CONSTRUCTION.

CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED, PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

F. SECURE AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING ENGINEER LICENSED BY THE STATE OF MICHIGAN TO MAKE PERIODIC SITE VISITS DURING CONSTRUCTION TO MAKE INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE 2003 MICHIGAN BUILDING CODE AND THE LOCAL MUNICIPALITY ISSUING THE BUILDING PERMIT. A WRITTEN RECORD OF ALL INSPECTIONS SHALL BE MADE BY THE INSPECTING ENGINEER AND FORWARDED TO THE CONTRACTOR AND THE ARCHITECT. CORRECT ALL WORK INDICATED IN THE INSPECTION REPORTS THAT IS NOT AS INDICATED IN THE CONSTRUCTION DOCUMENTS. IF REQUIRED BY THE MUNICIPALITY, A FINAL INSPECTING ENGINEER'S REPORT, AS WELL AS ALL INTERMEDIATE REPORTS SHALL BE SUBMITTED TO THE MUNICIPALITY.

G. MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, RULES AND REGULATIONS. IN CASES OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. H. MANUFACTURER'S DIRECTIONS: ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED

I. EACH SPECIFICATION SECTION CONSISTS OF FURNISHING AND INSTALLING THE DESCRIBED WORK, (UNLESS SPECIFICALLY NOTED OTHERWISE) INCLUDING ALL INCIDENTALS AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS

J. IF ANY INCONSISTENCY, OR CONFLICT SHALL BE DISCOVERED IN EITHER SPECIFICATIONS OR DRAWINGS, OR IF IN ANY PLACE THE MEANING OF EITHER OR BOTH SHALL BE UNCERTAIN OR IN DISPUTE, THE ARCHITECT SHALL DECIDE AS TO THE TRUE INTENT OF THE DOCUMENTS. EACH CONTRACTOR, OR SUB CONTRACTOR IS DEEMED TO HAVE INCLUDED THE MORE EXPENSIVE WAY OF DOING THE MORK, UNLESS HE SHALL HAVE ASKED FOR AND RECEIVED IN WRITING FROM THE CONTRACTOR OR ARCHITECT, A DECISION BEFORE SUBMISSION OF THE BID PROPOSAL.

K. ANY PROCEDURE, MATERIAL OR OPERATION SPECIFIED BY REFERENCE TO THE AMERICAN SOCIETY OF TESTING AND MATERIALS (A.S.T.M.), OR OTHER RECOGNIZED STANDARD, SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT ISSUE OF THE REFERENCED STANDARD IN CONFLICTS BETWEEN THIS SPECIFICATION AND LISTED STANDARD OR BETWEEN LISTED STANDARDS. THE MORE STRINGENT SHALL GOVERN. ANY WORK NOT SPECIFICALLY COVERED IN THE DRAWINGS OR SPECIFICATIONS SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED, AND PER PART H.

L. MEASUREMENTS AND DIMENSIONS: DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. ALL CONTRACTORS SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION.

WORK. REPAIR OR REPLACEMENT OF SUCH DAMAGED WORK SHALL BE PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE. N. ALL WORK, EQUIPMENT, ASSEMBLIES, COMPONENTS, ETC., SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM OWNER'S FORMAL ACCEPTANCE OF THE WORK, OR THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY, WHICHEVER OCCURS FIRST. LONGER WARRANTIES SHALL BE REQUIRED WHERE INDICATED.

M. EACH TRADE SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THE BUILDING AND/OR EXISTING STRUCTURES THAT IS CAUSED BY HIS

O. THIS STORE WILL REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE WITH STORE MANAGEMENT TO NOT BLOCK

P. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN FOR THE DURATION OF THE WORK ALL LAWFUL OR NECESSARY BARRICADES, FENCES AND RAILINGS. FURNISH TEMPORARY LIGHTS, WARNING SIGNS AND SIGNALS AND TAKE ALL OTHER PRECAUTIONS AS MAY BE RECURRED TO SAFEGUARD PERSONS, THE SITE AND ADJOINING PROPERTY, INCLUDING IMPROVEMENTS THEREIN, AGAINST INJURY AND DAMAGES OF EVERY NATURE, WHATSOEVER. PUBLIC RIGHT OF WAYS, SIDEWALKS CORRIDORS, ETC. EFFECTED BY CONSTRUCTION MUST BE KEEP FREE OF ACCUMULATED WASTE MATERIALS INCLUDING SOIL, DEBRIS, TRASH, ETC. ON A DAILY BASIS. A CLEAR PATH OF EGRESS SHALL BE MAINTAINED AT ALL TIMES.

Q. AT THE COMPLETION OF WORK THE PROJECT SITE HARD SURFACES SHALL BE LEFT BROOM CLEAN. ALL FINISHED AREAS INCLUDING GLAZING, SHALL BE LEFT DUST AND SPOT FREE AND READY FOR FULL USE. R. ALL SUBCONTRACTOR'S SHALL COORDINATE WITH THE CONTRACTOR FOR THE SUB CONTRACTOR'S MINIMUM INSURANCE

5. SUBMIT COMPLETE SHOP DRAWINGS TO THE ARCHITECT FOR EACH MATERIAL INDICATED. SUBMIT COMPLETE LIST OF SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT WITH ANTICIPATED DATE OF EACH SUBMITTAL PACKAGE. THE SHOP DRAWING LIST SHOULD BE SUBMITTED NO LATER THAN 10 DAYS AFTER SIGNING OF CONSTRUCTION CONTRACT WITH OWNER.

DEMOLITION:

- THE EXTENT OF BUILDING DEMOLITION SHALL BE AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS AND AS REQUIRED FOR CONSTRUCTION OF NEW WORK. WORK INCLUDES THE FOLLOWING:
 - DEMOLITION OF ALL ITEMS INDICATED IN CONTRACT DOCUMENTS. REMOVE AND DISPOSE OF ALL ITEMS IN AREAS INDICATED IN THE SCOPE OF WORK, DRAWINGS AND SPECIFICATIONS
- EXCEPT FOR SPECIFIC ITEMS HEREINAFTER SPECIFIED, THE METHODS USED IN DEMOLITION, AND REMOVAL WORK SHALL BE OPTIONAL WITH THIS TRADE. ALL WORK SHALL BE DONE SO AS TO CREATE AS LITTLE DIRT, DUST, AND NOISE AS POSSIBLE. EXPLOSIVES SHALL NOT BE USED
- THIS TRADE SHALL PROVIDE TEMPORARY WEATHERTIGHT PARTITIONS OR ENCLOSURES TO PREVENT THE ENTRY OF WEATHER INTO THE EXISTING BUILDING WHEN ANY WALLS OR ROOFS ARE REMOVED OR HOLES CUT THROUGH SAME. TEMPORARY PARTITIONS OR ENCLOSURES SHALL BE CONSTRUCTED OF MATERIALS APPROVED BY THE FIRE MARSHALL. ALL EXPOSED WOOD SHALL BE PAINTED WITH AN APPROVED FIRE RETARDANT PAINT. PROVIDE DOORS IN ALL PARTITIONS AS REQUIRED FOR ACCESS TO THE EXISTING BUILDING, AND FOR CONSTRUCTION ACTIVITIES. ALL TEMPORARY CLOSURES SHALL BE REMOVED WHEN NO LONGER REQUIRED OR AT THE COMPLETION OF THE BUILDING CONSTRUCTION.
- AND ELECTRICAL UTILITIES THAT ARE TO REMAIN IN SERVICE WILL EITHER BE LEFT IN PLACE OR RE-ROUTED BY THE RESPECTIVE MECHANICAL AND ELECTRICAL CONTRACTORS. UTILITIES, FIXTURES, ETC. THAT ARE NOT PART OF THE BUILDING REMOVAL WORK, CUTTING AND CAPPING OF LINES AT THE AREAS OF REMOVAL, AND DEACTIVATION OF SERVICE WILL BE PROVIDED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS
- IN ALL REMOVAL WORK, REMOVE ALL BOLTS, SCREWS, NAILS, CLIPS AND OTHER ANCHORS AND FASTENERS PROJECTING FROM THE EXISTING CONSTRUCTION. DO NOT USE A FLAME CUTTING TORCH
- REMOVE ALL MATERIALS NOT REUSED, AND NOT RETAINED BY THE OWNER, FROM THE SITE AS THE WORK PROGRESSES, AND DISPOSE OF OFF-SITE, LEGALLY. DO NOT ACCUMULATE RUBBISH ON SITE.
- THIS TRADE SHALL BE RESPONSIBLE FOR THE STABILITY OF THE EXISTING BUILDING AND THE PROTECTION OF LIFE AND PROPERTY DURING THE DEMOLITION AND REMOVAL OPERATIONS PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED TO SUPPORT REMAINING CONSTRUCTION MEAKENED BY THE REMOVAL WORK. PROVIDE TEMPORARY BARRIERS, WARNING SIGNS, WARNING LIGHTS AND OTHER SAFETY MEASURES TO PREVENT ACCIDENTS. REMOVE AND DISPOSE OF ALL EMPORARY MEASURES WHEN NO LONGER REQUIRED.

3000 - CONCRETE:

1.01 QUALITY ASSURANCE CONCRETE SHALL BE OBTAINED FROM AN APPROVED REPUTABLE CENTRAL MIX OR TRUCK PLANT BATCHED, MIXED & DELIVERED IN ACCORDANCE WITH ASTM C-94

2.01 MATERIALS: CEMENT: ASTM C-150, TYPE AGGREGATES: ASTM C-33

REINFORGING: BAR REINFORCING - DEFORMED ASTM A-615, GRADE 60, MINIMUM 40 BAR DIAMETERS

WELDED WIRE FABRIC - ASTM A-185 LAP A MINIMUM 6" EACH SPLICE. FIBER REINFORCING - VIRGIN POLYPROPYLENE "FIBER MESH".

EXPANSION JOINT MATERIAL SHALL BE ASPHALT MASTIC STRIPS (PREFORMED) COMPOSED OF CANE FIBER F CELLULAR NATURE, OR OTHER SUITABLE AND APPROVED FIBER IMPREGNATED WITH DURABLE ASPHALTIC COMPOUND. INSTALL WHERE EXTEREIOR AND INTERIOR SLABS ABUT MASONRY. THICKNESS

THROUGHOUT TO BE 1/2". VAPOR BARRIER: SHALL BE 6 MIL. POLYPROPYLENE. VAPOR BARRIER SHALL BE USED UNDER ALL

CONCRETE SLABS. FILM SHALL BE PURCHASED IN 8'-0" OR WIDER ROLLS.
GRAVEL FILL: SHALL BE CLEAN, WASHED GRAVEL 1/2" TO 3/4" IN SIZE OR CRUSHED STONE OF SAME SIZE, AND SHALL BE PLACED UNDER ALL SLABS WHERE INDICATED ON PLANS AT LEAST 4" DEEP.

PERIMETER INSULATION: 2" THICK, 24" WIDE RIGID INSULATION EQUAL TO DOW CHEMICAL CO.'S STYROFOAM

INSTALL WHERE INDICATED ON DRAWINGS CONCRETE (NORMAL MEIGHT), UNLESS OTHERWISE NOTED ON DRAWING, SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS. CONCRETE (NORMAL WEIGHT) FOR TRUCK DOCK FLOORS AND WALLS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE SHALL HAVE A 5.5 SACK MINIMUM CEMENT CONTENT AND SHALL BE PROPORTIONED TO HAVE A 4" SLUMP. THE

PROPORTIONS OF INGREDIENTS SHALL BE SUCH AS TO PRODUCE A MIXTURE THAT WILL WORK READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND THE REINFORCEMENT, BUT WITHOUT PERMITTING THE MATERIALS TO SEGREGATE OR EXCESSIVE FREE WATER TO COLLECT ON THE SURFACE. CONCRETE FOR EXTERIOR CONSTRUCTION SHALL BE PLACED WITH SIX PERCENT (PLUS OR MINUS ONE PERCENT) AIR ENTRAINED WITHIN THE CONCRETE. CONCRETE PLACED DURING "WINTER" MUST BE PROTECTED

FROM FREEZING CONCRETE BAR REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 (60,000 PSI YIELD). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, AND SHALL BE FURNISHED AND PLACED IN LAT SHEETS. CONCRETE BAR REINFORCEMENT FOR WELDED REINFORCEMENT CONNECTIONS SHALL CONFORM TO ASTM A706. ALL ASTM STANDARDS SHALL BE LATEST EDITION.
STEEL FIBER REINFORCEMENT SHALL BE NOVOCON 1050HE (BY SI CONCRETE SYSTEMS). PROVIDE FIBERS OF

WO INCH, MINIMUM, LENGTH. NYLON FIBER REINFORCEMENT SHALL BE FIBRASOL N (BY AXIM CONCRETE UNLESS OTHERWISE NOTED. CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS, AMERICAN STANDARDS FOR TESTING AND MATERIALS (ASTM.

STANDARDS, AMERICAN WELDING SOCIETY (AWS) STANDARDS, AND CONCRETE REINFORCING STEEL INSTITUTE

ACI 121 - "QUALITY ASSURANCE SYSTEMS FOR CONCRETE CONSTRUCTION" ACI 211 - "STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR CONCRETE"

ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS ACI 302 - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"

ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE.

ACI 304.2 - "PLACING CONCRETE BY PUMPING METHODS" ACI 305 - "HOT WEATHER CONCRETING"

CRSI (P1) - "PLACING REINFORCING BARS"

ACI 306 - "COLD WEATHER CONCRETING" ACI 309 - "GUIDE FOR CONSOLIDATING CONCRETE"

ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCING" ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" ACI 503.2 - "STANDARD SPECIFICATION FOR BONDING PLASTIC CONCRETE TO HARDENED CONCRETE WITH A MULTI-COMPONENT EPOXY ADHESIVE" ACI SP-15 - "FIELD REFERENCE MANUAL" WHICH INCLUDES ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

ACI SP-66 - "ACI DETAILING MANUAL" ASTM C227 - "TEST METHOD FOR POTENTIAL ALKALI REACTIVITY OF CEMENT-AGGREGATE

AWS D1.4 - "STRUCTURAL WELDING CODE REINFORCING" CRSI (DA4) - "MANUAL OF STANDARD PRACTICE"

3000 ctud.

MIX DESIGNS SHALL BE SUBMIT TO THE ARCHITECT WITH RECENT HISTORICAL DATA (DATA FROM THE PAST NINE MONTHS) OR WITH THE RESULTS FROM THE TWENTY-EIGHT DAY TRIAL MIXTURES RUN FOR THE PROJECT (THESE ARE THE MINIMUM REQUIREMENTS SET FORTH BY THE AMERICAN CONCRETE INSTITUTE.) DUE OF THE FACT THA THE CONCRETE CONTRACTOR AND THEIR CHOSEN CONCRETE SUPPLIER ARE THE SOLE PARTIES RESPONSIBLE FOR CONCRETE STRENGTH, AND THAT, TYPICALLY, MIX PROPORTIONS ARE SUBMIT IN LIEU OF MIX DESIGNS, THE CONTRACTOR AND CONCRETE SUPPLIER MAY CHOOSE TO SUBMIT TYPICAL MIX PROPORTIONS FOR REVIEW. BY SUBMITTING MIX PROPORTIONS, THE CONTRACTOR AND CONCRETE SUPPLIER ACCEPT THE FACT THAT THIS NOTE PROVIDING THME WITH THE REQUIRED SPECIAL PERMISSION TO PROCEED WITHOUT THE ACI REQUIRED MIX DESIGN IS DONE AT THE CONTRACTORS OWN RISK AND VOLITION. (CONCRETE WITH INADEQUATE STRENGTH OR OTHER SPECIFIED PROPERTIES MAY NEED TO BE REMOVED AND REPLACED AT NO COST TO THE OWNER). AESTRUCTURES WILL REVIEW THE PROPORTIONS AGAINST HISTORICAL DATA (AVAILABLE TO US) AND OTHER INDUSTRY STANDARDS, GUIDELINES, AND ENGINEERING JUDGEMENT. THE ADEQUACY OF THE CONCRETE WOULD THEN BE VERIFIED WITH THE COMPRESSION TEST RESULTS. (PLEASE NOTE THAT THE ACCEPTANCE OF ANY CONCRETE, SUBMIT WITH MIX DESIGN OR MIX PROPORTIONS, OCCURS ONLY AFTER THE INDEPENDENT TESTING AND INSPECTION AGENCY HAS VERIFIED THE ADEQUACY OF THE CONCRETE THROUGH TESTING.)

MINIMUM CONCRETE COVER SHALL BE (UNLESS OTHERWISE NOTED): UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING BOTTOMS): THREE INCHES.

FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (PIERS, WALLS, PITS, ETC.): TWO INCHES. BEAMS AND COLUMN (AND PIERS) MAIN REINFORCING OR STIRRUPS AND TIES: ONE AND ONE-HALF

IN ALL CASES, CLEARANCE NOT LESS THAN THE DIAMETER OF THE BARS. NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE PLUS ONE-QUARTER INCH FOR SECTIONS TEN INCHES OR LESS AND PLUS ONE-HALF INCH FOR SECTIONS OVER TEN INCHES THICK.

SLABS ON GRADE - PLACE IN ALTERNATING STRIP FASHION (CONSTRUCTION JOINTS ARE SHOWN ON

SIZES OF CONCRETE PLACEMENTS SHALL NOT EXCEED THE FOLLOWING UNLESS OTHERWISE INDICATED ON THE MALLS AND CONTINUOUS WALL FOOTINGS - ONE HUNDRED FEET MAXIMUM LENGTH.

PLAN). MAXIMUM WIDTH APPROXIMATELY THIRTY-SIX TIMES THE SLAB THICKNESS. MAXIMUM LENGTH

MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS

WALLS, PIERS, AND COLUMNS SHALL BE DOWELED TO FOOTINGS. WALL FOOTINGS AND CONCRETE COLUMN DOMELS SHALL BE SAME SIZE AS WALL AND COLUMN VERTICALS. CONTINUOUS WALL FOOTINGS, BEAMS, SLABS AND COLUMNS SHALL BE PLACED MONOLITHICALLY EXCEPT WHERE OTHERWISE SHOWN. NO HORIZONTAL CONSTRUCTION JOINTS ARE TO BE MADE, UNLESS SHOWN OR

PROVIDE A SHEAR KEY ONE-THIRD OF THE DEPTH OF STRUCTURAL MEMBER AT CONSTRUCTION JOINTS. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS. PROVIDE BENTONITE WATER STOP IN ALL BELOW GRADE CONSTRUCTION JOINTS.

WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES, AND HOOKED TO FORM U-BARS AT DISCONTINUOUS ENDS. THESE SUPPLEMENTARY BARS SHALL MATCH THE SIZE AND SPACING OR QUANTITY OF THE TYPICAL, CONTINUOUS

3.01 PLACING VAPOR BARRIER:

PRIOR TO PLACING VAPOR BARRIER, SUBGRADE SHALL BE SMOOTHED AND ROLLED TO PREVENT PROTRUSIONS WHICH MAY CAUSE DAMAGE TO THE BARRIER. VAPOR BARRIER SHALL BE LAPPED NOT LESS THAN 6" WITH LAP PLACED IN THE SAME DIRECTION CONCRETE IS TO BE SPREAD, USE UNDER ALL SLABS RESTING ON GRAVEL FILL. RUN CONTINUOUS AS PERMITTED. WORKMEN SHALL AVOID WALKING ON FILM BEFORE SLABS ARE POURED.

REINFORCEMENT SHALL BE PLACED IN UPPER 1/3 PORTION OF SLABS. MESH SHALL BE LAPPED AT LEAST 12" AT ALL JOINTS, AND RUN CONTINUOUS WHERE POSSIBLE. SEE PLANS FOR SIZE AND LOCATION OF STEEL

REINFORCEMENT

BEFORE POURING FOUNDATION FOOTINGS, SEE THAT BOTTOMS OF EXCAVATIONS ARE OF UNDISTURBED EARTH, FREE FROM FROST, PROPERLY LEVELED, AND TAMPED, BEFORE POURING BE SURE THAT REINFORCEMENT IS AS SPECIFIED. PLACE CONCRETE WITH THE AID OF APPROVED MECHANICAL VIBRATING EQUIPMENT. TRANSMIT VIBRATION DIRECTLY TO THE CONCRETE UNLESS OTHERWISE DIRECTED VIBRATE SUFFICIENTLY TO CAUSE SETTLEMENT OF CONCRETE INTO PLACE AND TO PRODUCE THOROUGH

COMPACTION. CONCRETE FINISH TO BE TROWELED SMOOTH.

4100 - MASONRY

1.01 Quality Assurance:

A. All concrete masonry materials and execution shall be in compliance with the current published technical guidelines of the National Concrete Masonry Association "Guide Specification for Concrete Masonry"

B. All masonry materials and execution shall be in compliance with all applicable provisions of:

1. "Building Code Requirements for Masonry Structures, ACE 530-95/ASCE-5-95/T.S. 402-95. 2. Specification for Masonry Structures ACT 530.1-95/ASCE 6-95/ T.S. 602-95.

3. Standard Specification for Grout for Masonry, ASTM C476-91, American Society for Testing and Materials, 1991. C. Cold and hot weather installation shall be in compliance with International Masonry Industry All Weather Guide

Specification, current edition. D. Use dry masonry units. Cover tops of all walls at end of work day.

E. Submit complete masonry material shop drawings.

A. All masonry block units confirm to A.S.T.M.C-90 for grade N-1, made with normal weight aggregates conforming to

B. CMU #1: Exterior single score masonry block units equal to Clark Block "Sandblast finish" 16 inches long by 8 inches high 2 core. Thickness as shown in drawings. Prefinished Chameleon color: LM10200-9

C. CMU #2: Exterior single score masonry block units equal to Clark Block "Smooth finish" 16 inches long by 8 inches high 2 core. Thicknenss as shown in drawings. Unfinished.

D. CMU #3: Exterior single score masonry block units equal to Clark Block "Sandblast finish" on one end only, smooth finish sides. 12 inches long by 8 inches wide by 8 inches high solid core. Prefinished Chameleon color: LM10200-9

E. Standard masonry units. 16 inches long by 8 inches high. Thickness shown on drawings.

F. Mortar: See structural notes and specifications. Color: Match existing mortar color

 Cement:Portland Cement ASTM C-150, Type 1 2. Lime: Hydrated lime per ASTM C-207, Type 3

3. Sand: Prescreened, clean, sharp, washed, per 2MS 4. Water: Clean, potable Masonry Cement: ASTM C-91.

G. Block Insulation: Expanded polystyrene beads, install in all non-grouted wall reinforcing and exterior block cores. H. Integral Masonru and Mortar Water Repellant: Krete H. Q (5) Plus Masonru Additive and Kretegard Mortar Mix bu K.I. Crete Industries, Inc. Butler, WI. At all solid CMU #1 and CMU #3 masonry units, and all exterior mortar use at their

Mall Reinforcing: (Minimum of 9 gauge steel wire)

Exterior Single-Mythe Block Malls: ASTM A-153 Class B-2, 1.50 oz. Per square foot hot dipped galvanized after fabrication equal to Lox-All Truss Mesh by Hohmann & Barnard.

2. Interior Block Walls: ASTM A-116, Class 1, 0.40 oz. per square foot mill galvanized, equal to Lox-All Truss Mesh by Hohmann & Barnard.

J. Thru Flashing: Equal to Perm-A-Barrier Flashing by W. R. Grace & Company.

A. Hohmann & Barnard #342, 3/8" x 1 " x 3 " clear butyrate rectangular weep. B. Space as shown on drawings.

3.01 Concrete Masonry Unit:

A. All concrete masonry units shall be laid with cells vertical in walls, and if thru core block are used, in such a manner that the main bearing webs come in proper relations for the bearing on units below.

B. All units shall be laid up in common bond with alternate vertical joints aligned. All horizontal joints shall be kept level. Joints shall be worked so as to bond properly with any facing or backing materials. All joints shall be uniform in width and thickness, and shall not exceed 1/2". All exposed joints shall be tooled concave.

3.02 Wall Reinforcing Installation:

A. All walls laid up with concrete masonry shall be reinforced with horizontal steel wall reinforcing as specified above and indicated on the Drawings. Reinforcing shall be of proper width for wall thickness, shall be installed in every second horizontal joint starting at the first joint below the top of the wall, centered in the wyths. Mall reinforcing shall also be provided in the first two (2) joints directly under openings in the wall, supplementing the normal reinforcing with sections of reinforcing four (4) feet longer than the opening width.

B. Reinforcing shall be extended continuous in the walls, except that member shall be terminated at each side of a control joint. End joints between members shall be lapped six (6) inches. Corners and intersections shall be made by cutting and lapping the reinforcing from one wall with the other walls. The longitudinal wire of the reinforcing shall be embedded completely in the setting mortar.

C. Vertical cells containing reinforcing and grout shall form a continuous cavity, free of mortar droppings.

D. Vertical reinforcing shall be fully grouted in the cores of the concrete masonry units and shall be lapped 36 bar diameters but not less than 24 inches. The vertical reinforcement shall be lapped with dowels of same size and spacing which have been previously installed in the foundation. Embedment of dowels shall conform to the requirements of ACT 318.

3.03 Thru Mall Flashing Installation:

A. Provide flashing at locations indicated on Drawings and where indicated below: 1. Remove debris, protrusions from surfaces to receive flashing. Apply flashing primer to surfaces to receive flashing. Remove flashing release paper and press flashing firmly into place. Overlap flashing 1" to

2" and roll all overlaps. Install flashing per manufacturers written recommendations. 2. Starting at a point at the top of exterior foundations supporting masonry, or where shown on Drawings; at the horizontal masonry joint extend under the masonry veneer, up between the veneer and the interior wythe of masonry, 8" high minimum and adhere to top of interior wythe and extend to interior face of masonry. Install termination mastic (by flashing manufacturer) at top of flashing edge.

B. Step flashing to follow step footings and grade slope. Extend flashing continuously at steps in flashing level. Overlap and seal flashing completely at step locations.

3.04 Control Joints:

A. Control joints shall be built masonry construction to provide for differential movement and in locations shown on the Drawings and herein specified.

B. Control. Joints shall be provided in concrete masonry walls at approximately thirty (30) feet on center. Joints shall be located at natural weaknesses in the wall, if possible. Control joints shall be constructed by breaking the running bond in the wall with a continuous vertical joint 3/8" wide. The joint shall be constructed by laying up the block with half core end at the joint. As blocks are laid up, one side of the joint shall be lined with one ply of asphalt saturated roofing felt; the core and web space formed at the joint shall be filled with mortar packed in place, to form a keyed joint that will withstand lateral pressure. In all exposed areas the mortar shall be held back 1/2" to form a clear sealant/caulking space.

07200 - Cold Formed Steel Framing:

COLD-FORMED STEEL STUDS SHALL BE PROVIDED IN CONFORMANCE WITH ASTM A653 AND C955 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI, UON, MODULUS OF ELASTICITY OF 29,000,000 PSI, AND SHALL BE GALVANIZED TO A MINIMUM G60 COATING, UNO.

BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION WITH THE FOLLOWING MINIMUM REQUIREMENTS. FOR WALLS WITH NO AXIAL LOAD, PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS LESS THAN OR EQUAL TO 10'-0" HIGH, AND 5'-0" O.C. MAXIMUM FOR WALLS GREATER THAN 10'-0" HIGH. FOR AXIAL LOAD BEARING WALLS, PROVIDE BRIDGING EQUALLY SPACED AT 4"-0" MAXIMUM. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

STEEL DRILL SCREWS FOR COLD-FORMED STEEL FRAMING SHALL CONFORM TO ASTM C 954 EXCEPT MANUFACTURED WITH HEX WASHER HEAD AND NEOPRENE WASHER, #10 DIAMETER BY LENGTH REQUIRED TO PENETRATE STEEL STUD FLANGE BY NOT LESS THAN 3 EXPOSED THREADS, AND WITH THE FOLLOWING CORROSION PROTECTIVE COATING: ORGANIC POLYMER COATING WITH SALT-SPRAY RESISTANCE TO RED RUST OF MORE THAN 800 HOURS PER ASTM B 117.

UPON COMPLETION OF THE COLD-FORMED STEEL FRAMING CONSTRUCTION ALL DAMAGE TO THE GALVANIZED COATING SHALL BE REPAIRED USING A HIGH ZINC DUST CONTENT PAINT FOR REPAIR OF GALVANIZED SURFACES, COMPLYING WITH M.I. SPEC. MIL-P-21035. AN ACCEPTABLE PRODUCT IS ZRC COLD GALVANIZING COMPOUND BY ZRC CHEMICAL COMPANY

FABRICATE AND INSTALL COLD-FORMED STEEL FRAMING TO THE MOST STRINGENT TOLERANCE VARIATION FROM PLUMB, LEVEL, AND TRUE TO LINE OF ONE-EIGHTH INCH IN TEN FEET.

07300 - METAL PANELS

A. BERRIDGE VEE PANEL, 24 GA., VERTICAL APPLICATION, 12 3/4" WIDE, PANEL COLOR: ALMOND - KYNAR 500 FINISH. A. ALL JOINTS SEALED.

07420 - E.I.F.S. (Exterior Insulation and Finish System):

1.01 Quality Assurance:

. System shall be "Dryvit Outsulation MD" as by Dryvit Inc or approved equal. System shall be installed by applicatorappoved by The manufacturer shall review details and notify Architect of any inconsistencies of errors in construciton

During construction authorized representative of the manufacturer shall visit the site and inspect work to ensure

manufacturer's instructions are followed B. Submit complete shop drawings and color samples.

C. Job conditions for material storage and installation temperatures shall comply with manufacturer's requirements.

D. Provide five (5) year material and labor warranty. 2.01 Materials:

A. Portland Cement: Shall be Type I or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.

B. Water: Shall be clean and free of foreign matter.

C. Air/Water-Resistive Barrier Components Dryvit Backstop® NT: A flexible, polymer-based, noncementitious water-resistive coating and air barrier available in 2. Dryvit Grid Tape™: An open weave fiberglass mesh tape with pressure sensitive adhesive available in rolls 102 mm (4 in) wide by 91 m (100 yds) long.

D. Flashina Materials: Used to protect substrate edges at terminations. Liquid Applied: An extremely flexible water-based polymer material, ready for use.

Shall be AquaFlash and AquaFlash Mesh

Shall be Primus or Genesis

3. Dryvit Backstop DMS: A sprayable, single step air/water-resistive barrier and adhesive.

 Sheet Type:
 a. Shall be Flashing Tape and Surface Conditioner Dryvit Flashing Tape™: A high density, polyethylene film backed with a rubberized asphalt adhesive available in rolls 102 mm (4 in), 152 mm (6 in) and 229 mm (9 in) wide by 23 m (75 ft) long.. 2) Dryvit Flashing Tape Surface Conditioner™: A water-based surface conditioner and adhesion promoter

for the Dryvit Flashing Tape. Adhesives: Used to adhere the EPS to the air/water-resistive barrier, shall be compatible with the air/water-resisbarrier and Cementitious: A liquid polymer-based material, which is field mixed with Portland cement.

Ready mixed: A dry blend cementitious, copolymer-based product, field mixed with water a. Shall be Primus® DM, Genesis® DM, Genesis® DMS, Rapidry DM 35-50 or Rapidry DM 50-75

F. Insulation Board: Expanded Polystyrene meeting Dryvit Specification for Insulation Board, DS131 Thickness of insulation board shall be minimum 51 mm (2 in) The back side of the insulation drainage board shall have 6.4 mm x 25 mm (1/4 in x 1 in) grooves running vertically

The insulation board shall be manufactured by a board supplier listed by Dryvit Systems, Inc G. Insulation Board Closure Blocks: Expanded Polystyrene meeting Dryvit Specification for Insulation Board, DS131. The Closure Blocks shall measure a minimum of 152 mm (6 in) in height.

 $^{'}$ A 51 mm x 152 mm x 1.2 m (2 in x 6 in x 4 ft) piece of aged expanded polystyrene configured to receive the

Dryvit Track™ and Vent Track™. It is required at the base of all walls, at base of horizontal terminations, and neads of windows and other openings. Dryvit Vent Assembly: $\tilde{}$ A 51 mm imes 152 mm imes 305 mm (2 in imes 6 in imes 12 in) piece of aged expanded polystyrene, which is configured to contain a formed aggregate matrix material and receive the Dryvit Vent Track. It is required at the base of walls

and the base of horizontal terminations and is capable of draining water. Dryvit AP Adhesive™: A moisture cure urethane-based adhesive used to attach the Dryvit Track and ∨ent Track to the Backstop NT.

A "J" shaped track complying with ASTM D 1784 and ASTM C 1063 located above the Dryvit Starter Strip. L. Dryvit Vent Track: $\,\,^{\sim}$ A "J" shaped track complying with ASTM D 1784 and ASTM C 1063 containing a slot for drainage and located

M. Base Coat: Shall be compatible with the EPS insulation board and reinforcing mesh(es). Cementitious: A liquid polymer-based material, which is field mixed with Portland cement

Noncementitious: A factory-mixed, fully formulated, water-based product. a. Shall be NCB Ready mixed: A dry blend cementitious, copolymer-based product, field mixed with water Shall be Primus DM, Genesis DM, Genesis DMS, Rapidry DM 35-50 or Rapidry DM 50-75. N. Reinforcing Mesh: A balanced, open weave, glass fiber fabric treated for compatibility with other system materials.

Shall be Standard, Standard Plus, Intermediate, Panzer 15, Panzer 20, Detail and Corner Mesh Shall be colored blue for product identification bearing the Dryvit logo. O. Finish: Shall be the type, color and texture as selected by the architect/owner and shall be one or more of the following:

1. Standard DPR (Dirt Pickup Resistance): Water-based, acrylic finish with integral color and texture, and formulated EIFS Color #1: Match Sherwin Williams Paint Color SW6065 "Bona Fide Beige"

EIFS Color #2: Match Sherwin Williams Paint Color SW7020 "Black Fox" Q. Verify colors with architect before installation of EIFS System.

clude membrane, roof insulation and membrane accessories

3.01 Execution:

A. Mixing Preparation and Installation: Follow manufacturer's written instructions

07510 - ADHERED MEMBRANE ROOFING

1.01 Quality Assurance: A. Any procedure, material or operation specified by reference to the American Society for Testing and Materials A.S.T.M.) or other recognized Standard, shall comply with the require-ments of the current issue of the referenced

Specifi-cations. Installation shall meet U.L. - Class A rated assembly. B. The Roofing Contractor shall be certified in writing by the approved roofing membrane manufacturer as a licensed applicator, and shall have a minimum of five (5) years as a licensed installer by the manufacturer.

C. Conform to applicable local building code requirements.
Underwriters Laboratories, Inc. (UL): Class A Fire Hazard Classification. Factory Mutual Corporation (FM): Roof Assembly Classification, FM Construction Bulletin 1-28, and 1-29 meeting minimum requirements of FM 1-90. D. Marranty: Provide 20, year Firestone Red Shield Roofing System Limited Marranty (Red Shield Marranty). Marranty shall

A. Nailers for Flanges and Roof Accessories: Description: Structural Grade No. 2 or better Southern Pine, Douglas Fir or Exterior Grade plywood. All wood shall be pressure treated for rot resistance. Nailer width: Minimum 3-1/2 in. (nominal) wide or as wide as the nailing flange of each roof accessory. Nailer thickness: Thickness of roof insulation.

B. Membrane Materials: Equal to Firestone Adhered single-ply membrane system: RubberGard EPDM .060 LSFR elastomeric sheet roofing that is adhered to acceptable substrate with manufacturers bonding adhesive. Accessories: Provide accessories to finish the project and provide a watertight roof system.

3.01 Execution: 1. Install roofing membrane and accessories per manufacturer's written instructions.

07620 - Sheet Metal Flashing:

1.01 Quality Assurance: Fabricator: Company specializing in manufacturing Products specified with minimum 5 years documented experience 2. Installer: Company specializing in performing the Nork of this Section with minimum 5 years documented experience.

A. Pre-Finished Aluminum Sheet: ASTM B209, 3003 alloy, H14 temper; 0.025 inch minimum thickness; finish shop precoated with PVDF (polyvinylidene fluoride)] coating; color: Matte Black Form sections true to shape, accurate in size, square, and free from distortion or defects. Fabricate cleats of same material as sheet, interlocking with sheet.

Form material with flat lock seams, except where otherwise indicated. At moving joints, use sealed lapped, bayonet- type or interlocking hooked seams.

G. Tin edges of copper sheet to be soldered. Solder shop formed metal joints. After soldering, remove flux. Wipe and wash solder joints clean. Meather seal joints. H. Seal metal joints

Hem exposed edges on underside 1/2; miter and seam corners.

Form pieces in longest possible lengths.

3.01 Execution: Secure flashings in place using concealed fasteners. Apply plastic cement compound between metal flashings and felt flashings. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to OT719 - Roof Egde and Coping System

1.01 Quality Assurance A. All materials shall conform to UL 90 and ASTM A-446.

B. Lifetime, 170 mph Wind Warranty C. Tested per ANSI/SPRI ES-1 Standard to comply with the International Building Code.

A. Perma-Tite Coping Tapered Version: Metal coping cap with extruded anchor bar and galvanized steel anchor/support cleats for capping any parapet wall. Joints are butt type with concealed splice plates, as

manufactured by Metal Era Roof Edge Systems, Maukesha, MI, 800.558.2162

Model: ATC.
Metal: .050 inch (1.27 mm) aluminum 3. Finish: Standard Color Kynar-500:

Size as indicated on drawings.

Color: Matte Black B. Construction: Coping cap: length of 12 feet 0 inches (3.65 m), widths to 24 inch (101.6 mm) manufactured to job

requirements. True radii may be built to template. Coping vertical outside face to be: as noted on construction drawings Concealed splice plates: 8 inch (203 mm) wide. Finish to match finish of coping cap with factory applied dual non-curing sealant strips. 4. Extruded Anchor Bar: 080 inch (2.03 mm) mill extruded aluminum, pre-punched, 12 inch (305 mm) wide and

Anchor/Support Cleat: 20 gauge pre-punched galvanized cleat with stainless steel spring mechanically locked to cleat normally 12 inch (305 mm) wide at 4 foot 0 inch (1.22 m) on center. Mechanically fastened as indicated and detailed. Integrated with extruded anchor bar. Fasteners: 1-1/2 inch (38 mm) Stainless Steel with driver.

Install copings, and fascia in accordance with manufacturer(s written instructions Verify the manufacturer's roof edge details for accuracy to fit the assembly prior to fabrication. Install water cut-off, as recommended by the membrane manufacturer, under the anchor bar.

installed 4 foot 0 inch (1.22 m) o.c. Integrated with anchor/support cleat.

07915 - Sealant and Caulking:

A. Mixing and application of sealing compound shall be in strict accordance with the manufacturer's printed instructions. B. Only one brand of each class of compound shall be used throughout.

and proper installation.

2.01 Materials: A. Sealant: Tremcos Dymeric

D. Provide primers, back-up materials, bond-preventative materials, and other material required for a complete

3.01 Execution

A. Throughout the Work, seal and caulk joints where shown on the Drawings, and elsewhere as

required, to provide a positive barrier against passage of moisture and passage of air. B. Thoroughly and completely mask joints where the appearance of sealant on adjacent surfaces would be

C. Install materials in strict accordance with the recommendation of their manufacturers, tooling the joints to a neat and smooth profile. D. Install at all masonry joints, E.I.F.S. joints, and joints between E.I.F.S. and gravel stop edge and all other

08400 - ALUMINUM FRAMING:

2.01 FRAMING SYSTEMS BY THE KAWNEER COMPANY INC. NORCROSS, GA OR EQUAL. 2.02 ALL SYSTEM COMPONENTS TO BE FABRICATED AND INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS

2.03 FINISH SHALL BE AA-M12C22A4, CLEAR ANODIZED ALUMINUM #14.

locations indicated on the drawings.

B. General Interior Caulk: Tremcos "Tremco Acrylic Latex Caulk"

2.04 WINDOW SYSTEMS: SERIES TRIFAB - 451T, CENTER PLANE, 2"X4 ½" THERMAL FLUSH GLAZING SYSTEM FOR 1" INSULATED GLASS.

2.03 INSULATING CLEAR SAFETY AND NON-SAFETY GLASS SHALL BE 1" THICK UNIT, WITH AN OUTBOARD LITE OF ½" CLEAR GLASS, AND AN INBOARD LITE OF ½" CLEAR GLASS, GLAZING QUALITY, TYPE I, CLASS I, QUALITY Q3. PROVIDE HORIZONTALLY TEMPERED GLASS AT

SAFETY GLASS, CLEAR, WHERE INDICATED ON DRAWINGS SHALL BE 1/4" THICK, CLEAR HORIZONTALLY HEAT TEMPERED, GLAZING QUALITY, TYPE I, CLASS 1, QUALITY Q3. 2.02 ¼" THICK NON-SAFETY GLASS, CLEAR, SHALL BE GLAZING QUALITY, TYPE I, CLASS I, QUALITY Q3

THE PAINTING SCHEDULE IS BASED ON PRODUCTS OF SHERWIN WILLIAMS OR APPROVED EQUAL.

SAFETY GLAZING WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY BUILDING CODE.

1.01 QUALITY ASSURANCE: A. FURNISH ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE PAINTING JOB AS REQUIRED BY THE DRAWINGS AND AS SPECIFIED HEREIN, INCLUDING PAINTING OF ALL EXPOSED SURFACES (INCLUDING GRILLES AND VENTS) REGARDLESS OF WHETHER EVERY INDIVIDUAL ITEM IS MENTIONED HEREIN OR NOT

C. SUBMIT SAMPLES OF ALL FINISHES AND STAINS TO THE ARCHITECT FOR HIS APPROVAL PRIOR TO THE START OF ${f WORK}$. 2.01 MATERIALS:

A. PAINTING APPLICATION: (SHERWIN WILLIAMS SHOWN UNLESS NOTED OTHERWISE) Exterior Masonru Primer Coat shall be one (1) coat - Latex Exterior Primer Finish Coat shall be one (1) coats

STEEL, EXCEPT PRE-FINISHED METALS, INCLUDING ALL EXPOSED STEEL COLUMNS, CANOPY SUPPORTS, SOFFITS, Primer Coat shall be one (1) coat - Latex Exterior Primer Finish Coat shall be two (2) coats - Aura Exterior Semi- Gloss

3. Aluminum Mindow Frames: Primer Coat shall be one (1) coat - DTM Wash Primer - Sherwin Williams Finish Coat shall be two (2) coats - Durothon Semi-Gloss - Sherwin Milliams

P-1: Sherwin Williams - SM6065 "Bona Fide Beige

a. Priming per Paint Manufacturer (If Required)

b. Finish Coat per Paint Manufacturer B. Color Schedule: (Verifu Paint Colors with Architect)

P-2: Sherwin Williams - SW7020 "Black Fox"

3.01 EXECUTION: A. PREPARE SUBSTRATE AND APPLY PAINT COATING IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. Verifu painting product with new E.I.F.S. manufacturer for repainting existing E.I.F.S.

4. E.I.F.S. Coat:

09150 Metal Framing System:

1.01 Quality Assurance: A. All materials shall be delivered in their original unopened packages and stored in an enclosed shelter

providing protection from damage and exposure to the elements. 2.01 Materials A. Metal stud framing shall be 1-5/8", 3-5/8" or other size as shown on drawings, 20 gauge metal studs

and runners, hot-dip galvanized or factory pre-painted. B. Provide fasteners, clips and metal accessories as indicated on the drawings, as specified herein, and as needed for a complete and proper installation.

3.01 Execution: A. Install metal studs and accessories in strict accordance with the manufacturers recommendations, anchoring

all components into position B. Space studs not more then 16 inches on center unless noted on drawings otherwise. C. Unless shown otherwise, extend studs to underside of structure. Where studs are shown to terminate above

ceilings, provide bracing at 4'-0" on center maximum.

09250 - GYPSUM BOARD SYSTEMS

1.01 Quality Assurance Provide gypsum wall board complying with Fed Spec Ss-L-30D, in 48 inch: widths and in such lengths as will

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements All material and installation procedures shall be in compliance with the Gypsum Association's GA-216 "Recommended Specifications for the Applicable and Finishing of Gypsum Board." All materials shall be suitably protected from the weather during installation to prevent damage. In cold

result in a minimum of ioints.

weather during gypsum panel finishing, temperatures within the building shall be maintained above 55 degrees Adequate ventilation shall be provided to carry off excess moisture.

2.01 Materials: Gypsum Board: ASTM C-36 5/8" thick with tapered edges. Glass Fiber-Reinforced face exterior gypsum sheathing: Dense Glass Gold, as manufactured by Georgia Pacific,

1/2" thickness specialy treated, water resistant silicone gyspum core reinforced on front, back and edges with a glass-fiber mat. the reinforcing mat is embedded just under the front surface by a specially treated, water resistant integral gypsum layer. the front surface is then coated with a durable alkali-resistant surface coating.

Resilient Channels: 25 gauge, hot dipped galvanized steel; slotted "nat" configuration as approved for UL Fasteners, Accessories, Joint Treatment Materials, Laminating Adhesives: As recommended by manufacturer.

Install the work of this Section in accordance with recommendations contained in the USG "Gypsum

Finish: Provide smooth-sanded finish throughout. Level 1 finish at concealed areas, and Level 4 finish at other areas.

Execution:

A. Sunbrella Firesist Awning: Solution-dyed Modacrylic, woven fabric made out of 100% self-extinguishing fibers. Mildew resistant. Meight: 9.25 oz. per square yard.

B. Awning frame to be aluminum channel shaped extrusions. "Steel Stitch System" utilizing "Staple-in" method of fabric attachment. Member to be

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project name: Tile Shop

Renovation

project location: 37025 Grand Farmington, MI



date/ revision:

May 29, 2015 Bids

sheet numbe

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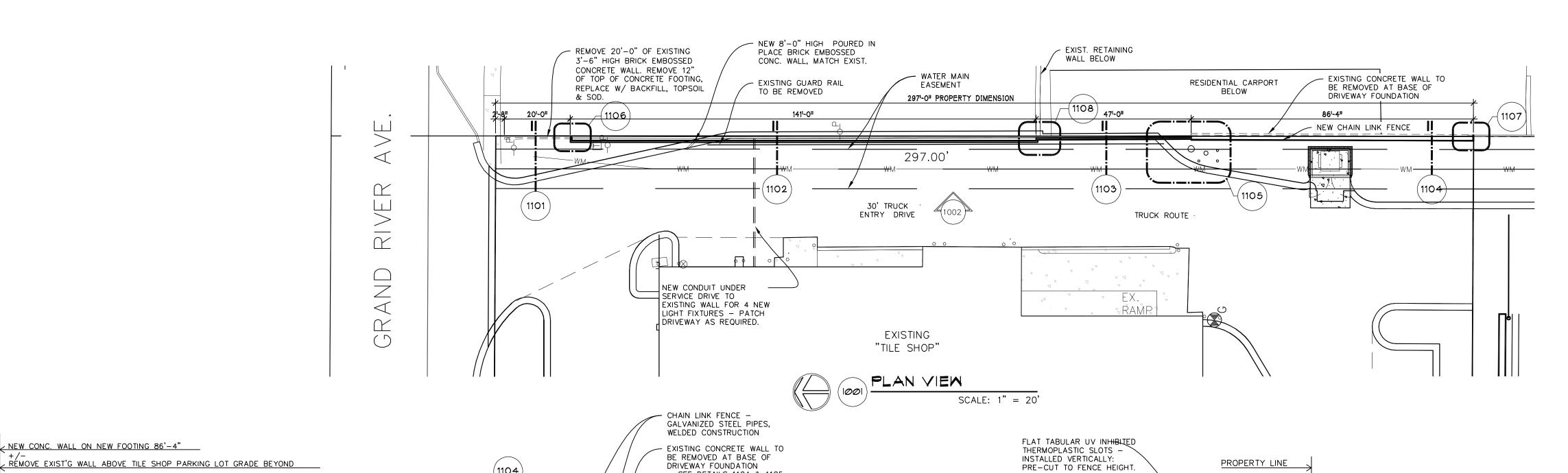
. Seal metal joints watertight.

NEW FENCE PLANE - SEE PLAN DETAIL 1105

46'-8" +/- NEW CONC. WALL ON EXIST'G FOOTING NEW CONC. WALL ON NEW FOOTING 86'-4"

NEW BRICK EMBOSSED CONC. WALL

CONT. BELOW 🔨



PRE-CUT TO FENCE HEIGHT.

COLOR: SILVER - GRAY



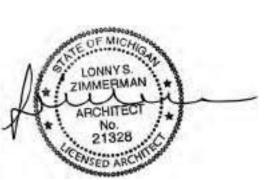
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EXISTING WALL BEYOND -TO REMAIN



date/revision: Aug 03, 2015 Bulletin 2 (Revised) Sept. 08, 2015 Revised

sheet title:

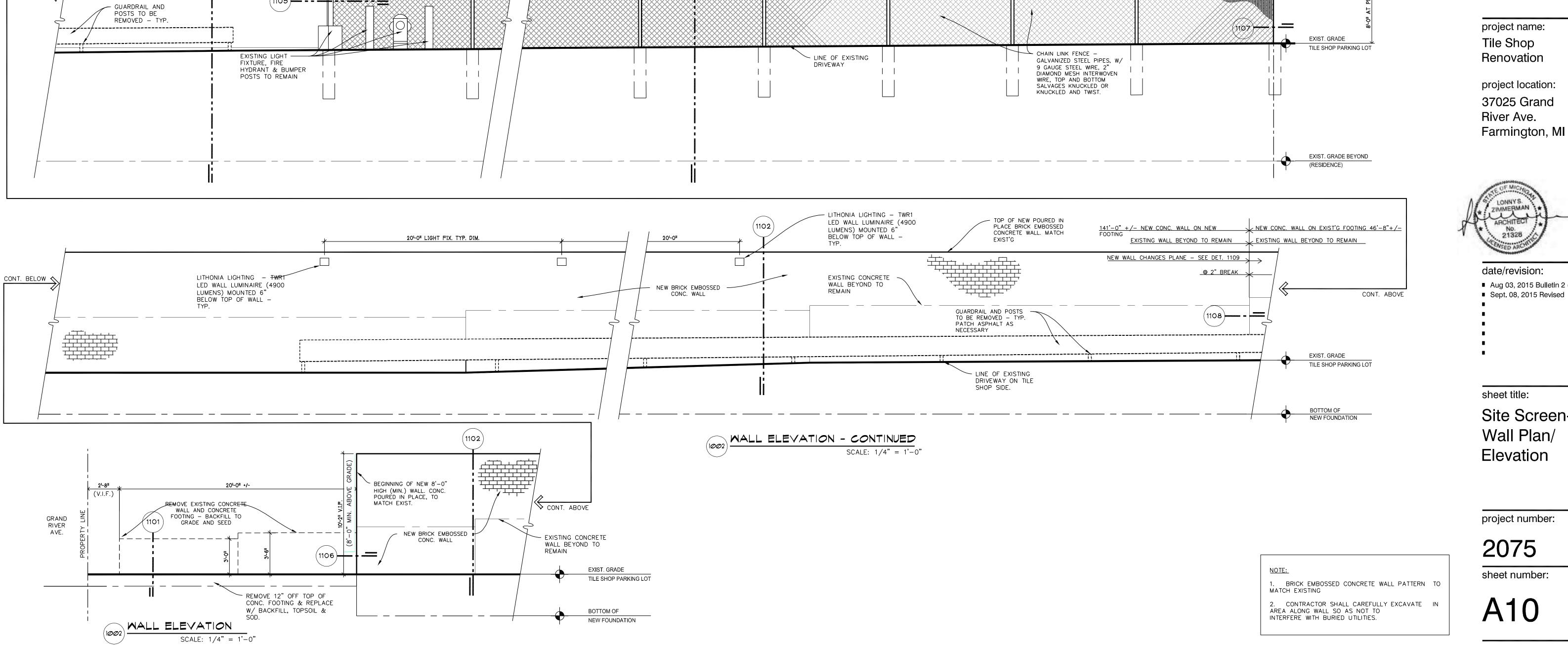
Site Screen-Wall Plan/ Elevation

project number:

2075

sheet number:

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(1104)

- SEE DETAILS 1104 & 1105

(FROM 8" BREAK TO THE END OF 297'-O")

NEW CHAIN-LINK

1104 🛏

#6 VERTICAL CONCRETE

#3 HORIZONTAL CONCRETE

REINFORCING BARS AT

REINFORCING BARS AT

1'-0" ON CENTER

1'-0" ON CENTER

#6 4'-0" VERTICAL

CONCRETE MASONRY

REINFORCING BARS AT

1'-0" O.C. EMBED 1'-0"

INTO EXIST. FOUNDATION

IN SIMPSON STRONG TIE

 $\sim\sim\sim$

AT-XP ANCHORING

GRADE VARIES -

ADHESIVE

STAGGERED

FENCE

CHAIN LINK FENCE - W/ 9

DIAMOND MESH INTERWOVEN

GAUGE STEEL WIRE, 2"

WIRE, TOP AND BOTTOM

SALVAGES KNUCKLED OR

- PLACE CHAIN-LINK FENCE

IN LINE WITH NEW 8' WALL

KNUCKLED AND TWIST.

FENCE RETURN BEYON

TO BE REMOVED

SCALE: 1/2" = 1'-0"

FOUNDATION

TO REMAIN

CONC1. CONCRETE (NORMAL WEIGHT), UNLESS OTHERWISE NOTED ON DRAWING, SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

CONC2. CONCRETE SHALL BE PLACED WITH SIX PERCENT (PLUS OR MINUS ONE PERCENT) AIR
ENTRAINED WITHIN THE CONCRETE. CONCRETE PLACED DURING "WINTER" MUST BE PROTECTED FROM

CONC3. CONCRETE BAR REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 (60,000 PSI YIELD). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, AND SHALL BE FURNISHED AND PLACED IN FLAT SHEETS. CONCRETE BAR REINFORCEMENT FOR WELDED REINFORCEMENT CONNECTIONS SHALL CONFORM TO ASTM A706. ALL ASTM STANDARDS SHALL BE LATEST EDITION.

CONC4. UNLESS OTHERWISE NOTED, CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS, AMERICAN STANDARDS FOR TESTING AND MATERIALS (ASTM) STANDARDS, AMERICAN WELDING SOCIETY (AWS) STANDARDS, AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) STANDARDS:

- ACI 121 "QUALITY ASSURANCE SYSTEMS FOR CONCRETE CONSTRUCTION"

 ACI 211 "STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR CONCRETE"
- ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS
- ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
 ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE.
- ACI 304.2 "PLACING CONCRETE BY PUMPING METHODS"
- ACI 305 "HOT WEATHER CONCRETING"
- ACI 306 "COLD WEATHER CONCRETING"
- ACI 309 "GUIDE FOR CONSOLIDATING CONCRETE"
- ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCING"

 ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

 ACI 503.2 "STANDARD SPECIFICATION FOR BONDING PLASTIC CONCRETE TO HARDENED
- CONCRETE WITH A MULTI-COMPONENT EPOXY ADHESIVE"
- ACI SP-15 "FIELD REFERENCE MANUAL" WHICH INCLUDES ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

 ACI SP-66 "ACI DETAILING MANUAL"
- ASTM C227 "TEST METHOD FOR POTENTIAL ALKALI REACTIVITY OF CEMENT-AGGREGATE COMBINATIONS"
- AWS D1.4 "STRUCTURAL WELDING CODE REINFORCING" CRSI (DA4) "MANUAL OF STANDARD PRACTICE"
- CRSI (DA4) "MANUAL OF STANDARD PRAC CRSI (P1) — "PLACING REINFORCING BARS"

CONC5. POZZOLANIC MATERIAL, SUCH AS FLY ASH AND GROUND, GRANULATED BLAST FURNACE SLAG (GGBFS), MAY NOT BE ADDED TO ANY CONCRETE THAT MAY BE EXPOSED TO VIEW WITHOUT THE APPROVAL OF THE ARCHITECT. THIS APPROVAL MAY REQUIRE A MOCK-UP. FLY ASH AND GGBFS, WHILE NOT IS NOT REQUIRED. IF IT IS DESIRED TO BE USED IN CONCRETE FOR THE PROJECT, THE FOLLOWING REQUIREMENTS APPLY:

CONC5.1. PROVIDE FLY ASH PER ASTM C618, TYPE C OR F. VERIFY THERE IS NO POTENTIAL ALKALI INTERACTION WITH PROPOSED AGGREGATES. IF POTENTIAL EXISTS, DO NOT USE FLY ASH OR USE A NON-REACTIVE AGGREGATE.
CONC5.2. PROVIDE GROUND, GRANULATED BLAST FURNACE SLAG PER ASTM C989, GRADE 100 OR BETTER.
CONC5.3. CONCRETE SHALL NOT CONTAIN MORE THAN TWENTY-FIVE PERCENT FLY ASH, BY WEIGHT, FOR TOTAL CEMENT AND POZZOLANIC MATERIAL.
CONC5.4. CONCRETE SHALL NOT CONTAIN MORE THAN THIRTY PERCENT GGBFS, BY WEIGHT, FOR TOTAL CEMENT AND POZZOLANIC MATERIAL.
CONC5.5. THE COMBINED AMOUNT OF FLY ASH AND GGBFS MAY NOT EXCEED FORTY PERCENT.

CONC6.1. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING BOTTOMS): THREE INCHES. CONC6.2. SLABS ON GRADE: ONE INCH FROM TOP. CONC6.3. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (PIERS, WALLS, PITS, ETC.): TWO INCHES. CONC6.4. NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE PLUS ONE—QUARTER INCH FOR SECTIONS TEN INCHES OR LESS AND PLUS ONE—HALF INCH FOR SECTIONS OVER TEN

CONC6. MINIMUM CONCRETE COVER SHALL BE (UNLESS OTHERWISE NOTED):

CONC7. SIZES OF CONCRETE PLACEMENTS SHALL NOT EXCEED THE FOLLOWING UNLESS OTHERWISE INDICATED ON THE PLANS:

, CONC7.1. WALLS AND CONTINUOUS WALL FOOTINGS — ONE HUNDRED FEET MAXIMUM LENGTH.

CONC7.2. SLABS ON GRADE — PLACE IN ALTERNATING STRIP FASHION (CONSTRUCTION JOINTS ARE SHOWN ON PLAN.

CONC8. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE AS REQUIRED TO ALLOW FOR FORM REMOVAL AND/OR THE ADEQUACY OF THE ADJACENT CONCRETE TO ACCEPT NEW WORK OR CONSTRUCTION ACTIVITY.

CONC9. WALLS, PIERS, AND COLUMNS SHALL BE DOWELED TO FOOTINGS. WALL FOOTINGS AND CONCRETE COLUMN DOWELS SHALL BE SAME SIZE AS WALL AND COLUMN VERTICALS.

CONC10. CONTINUOUS WALL FOOTINGS AND STEM WALLS SHALL BE PLACED MONOLITHICALLY EXCEPT WHERE OTHERWISE SHOWN. NO HORIZONTAL CONSTRUCTION JOINTS ARE TO BE MADE, UNLESS SHOWN OR OTHERWISE NOTED.

CONC11. PROVIDE A SHEAR KEY ONE—THIRD OF THE DEPTH OF STRUCTURAL MEMBER AT CONSTRUCTION JOINTS. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS. PROVIDE BENTONITE WATER STOP IN ALL BELOW GRADE CONSTRUCTION JOINTS.

CONC12. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS (OR CORNER BARS PROVIDED) AND LAPPED AT NECESSARY SPLICES. THESE SUPPLEMENTARY

BARS SHALL MATCH THE SIZE AND SPACING OR QUANTITY OF THE TYPICAL, CONTINUOUS BARS.

CONC13. TESTING OF CONCRETE SHALL BE DONE FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF, AND SHALL INCLUDE BUT IS NOT LIMITED TO SLUMP, AIR CONTENT CONCRETE TEMPERATURE, UNIT

CHAIN-LINK FENCE:

TYPE 1: ASTM F 1083 SCHEDULE 40, STANDARD WEIGHT GALVANIZED STEEL PIPE, WELDED CONSTRUCTION, MINIMUM YIELD STRENGTH OF 25 KSI; COATING CONFORMING TO ASTM F 1043 GROUP IA ON PIPE EXTERIOR AND INTERIOR.

- FABRIC: ASTM A 392; [CLASS 1: 1.2 OUNCE ZINC] 9 GAUGE (0.148 INCH DIAMETER) GALVANIZED STEEL WIRE, 2 INCH DIAMOND MESH INTERWOVEN WIRE, TOP AND BOTTOM SALVAGES KNUCKLED OR KNUCKLED AND TWIST.
- A. FOOTING CONCRETE: 3000 PSI PORTLAND CEMENT CONCRETE.
 B. GROUT: PREMIXED, FACTORY PACKAGED, NON STAINING, NON CORROSIVE GROUT.

PROVIDE TYPE FORMULATED FOR EXTERIOR APPLICATION.

WEIGHT, AND COMPRESSIVE STRENGTH. ALL TESTING SHALL FOLLOW ASTM STANDARDS.

- 4. COMPONENTS:
- A. END, CORNER, AND PULL POSTS

 TYPE 1 POSTS: 2.875 INCH OUTSIDE DIAMETER PIPE, 5.78 POUNDS PER LINEAL FOOT.
- B. LINE (INTERMEDIATE) POSTS

 TYPE 1 POSTS ROUND; 2.375 INCH OUTSIDE DIAMETER PIPE, 3.65 POUNDS PER LINEAL FOOT.

VERTICAL SLATS:

FLAT TABULAR UV INHIBITED THERMOPLASTIC SLATS - INSTALLED VERTICALLY, PRE-CUT TO FENCE HEIGHT. COLOR: SILVER-GREY

NOTE: BRICK EMBOSSED CONCRETE WALL PATTERN TO MATCH EXISTING

CONC14. ADMIXTURES SHALL CONTAIN NO MORE THAN 0.1 PERCENT WATER-SOLUBLE CHLORIDE IONS BY MASS OF CEMENTITIOUS MATERIAL. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.

CONC14.1. WATER-REDUCING ADMIXTURE: ASTM C494, TYPE A.
CONC14.2. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C494, TYPE F
CONC14.3. WATER-REDUCING AND ACCELERATING ADMIXTURE: ASTM C494. TYPE E

CONC14.3. WATER-REDUCING AND ACCELERATING ADMIXTURE: ASTM C494, TYPE E CONC14.4. WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C494, TYPE D CONC14.5. AIR-ENTRAINING ADMIXTURE: ASTM C260

CONC15. REPAIR AND PATCH DEFECTIVE AREAS AS DIRECTED BY ARCHITECT.

CONC16. COORDINATE FINISH OF ALL FOUNDATION WORK, INCLUDING SLABS ON GRADE, WITH ARCHITECTURAL AND FLOORING SUPPLIER'S REQUIREMENTS.

CONC17. LAP ALL REINFORCING AS INDICATED IN DETAILS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCING. PROVIDE DOWELS FROM FOOTING EQUAL IN SIZE AND NUMBER TO VERTICAL WALL OR PIER REINFORCING (UNO).

CONC18. ALL EXPOSED EDGES OF CONCRETE PIERS, BEAMS, AND WALLS SHALL BE CHAMFERED 1/2" X 45 DEGREES.

CONCRETE MIX GUIDELINES FOUNDATIONS AND WALLS

f'c 4,000 PSI (MIN)
SLUMP 4 INCH; 1 INCH
LARGE AGGREGATE 1 INCH
AIR (WHEN EXPOSED) 6% +/- 1%

SCELLANEOUS

MISC1. ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.

MISC3. THE FULLY COMPLETED STRUCTURE HAS BEEN DESIGNED TO BE STABLE. THE CONTRACTOR REMAINS RESPONSIBLE FOR ALL MEANS AND METHODS ISSUES SUCH AS:

MISC3.1. TO DETERMINE THE ERECTION AND PLACING PROCEDURES AND SEQUENCES.
MISC3.2. TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS DURING ERECTION BY
PROVIDING TEMPORARY SUPPORTS, SUCH AS TEMPORARY BRACING, SHORING, GUYS AND TIE

MISC3.3. TO PROVIDE TEMPORARY SUPPORTS AND THEY SHALL REMAIN UNTIL ALL STRUCTURAL COMPLETES ARE IN PLACE, COMPLETED, AND HAVE REACHED THEIR REQUIRED DESIGN

MISC4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AT THE SITE, INCLUDING TOPOGRAPHY, UTILITIES, SERVICES, ETC., AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE HE CAUSES TO THE PROPERTY, EXISTING AND NEW CONSTRUCTION, AND FOR ANY UNAUTHORIZED DISRUPTIONS TO THE OWNER'S NORMAL USE OF UTILITIES, SERVICES AND THE SURROUNDING FACILITIES.

,_____

FLAT TABULAR UV INHIBITED

PRE-CUT TO FENCE HEIGHT.

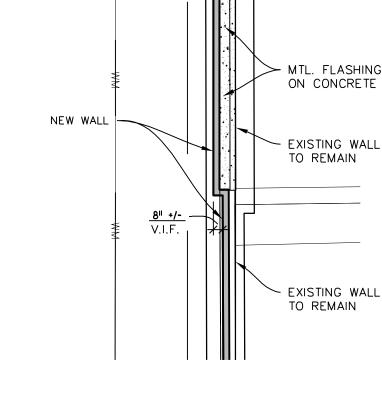
FENCE POST FOUNDATION

WALL SECTION

THERMOPLASTIC SLOTS -

INSTALLED VERTICALLY,

COLOR: SILVER-GREY



PLAN DETAIL @ (2" Break in exist. wall)

SCALE: 1/8" = 1'-0"

- EXISTING WALL

4 4 4

NEW 6" BRICK — EMBOSSED CONC.

1102)-

- TOP OF EXISTING

CONCRETE BELOW

TO BE REMOVED

- EXISTING WALL

- EXISTING WALL

SLOPE TOP OF WALL

BRICK EMBOSSED

AS SHOWN - TYP.

CONCRETE WALL

ENCLOSE W/ METAL

FLASHING AT TOP OF

EXIST'G WALL. COLOR TO

SHORE EXISTING WALL UNTIL

CONCRETE HAS ATTAINED

75% OR DESIGN STRENGTH

EXPOSED TOP OF EXISTING

CONCRETE FOOTING TO BE SUPPORTED FOR NEW WALL

EXIST'G WALL TO REMAIN

EXIST'G FOUNDATION

CONSTRUCTION

EXISTING

FOUNDATION

TO BE SHORED DURING

SEALANT

MATCH WALL.

TO REMAIN

SCALE: 3/4" = 1'-0"

TO BE REMOVED

- CONC. FILL BELOW

EXISTING WALL

TO REMAIN

SCALE: 3/4" = 1'-0"

NEW 6" BRICK EMBOSSED

#6 VERTICAL CONCRETE

#3 HORIZONTAL CONCRETE

2 #5 BARS TOP & BOTTOM

11-411

REINFORCING BARS AT

REINFORCING BARS AT

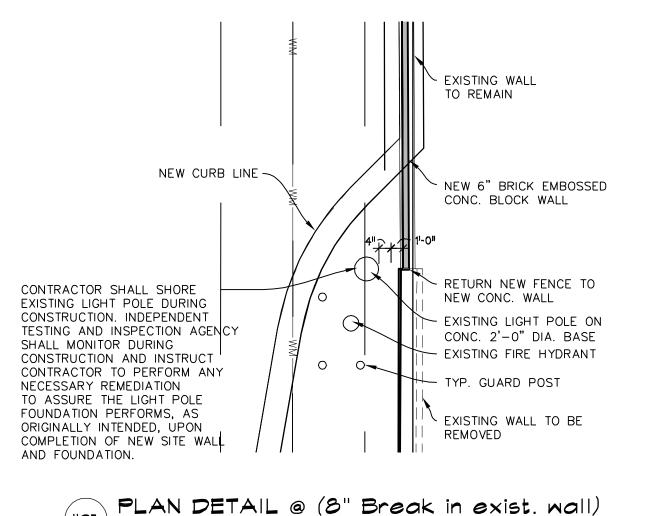
1'-0" ON CENTER

I'-0" ON CENTER

STAGGERED

CONCRETE WALL TO MATCH

XISTING



- SLOPE TOP OF WALL

PROVIDE CONC. FILL

BETWEEN EXIST'G AND

NEW WALL, PRE-FINSHED

26 GA. METAL FLASHING

COLOR TO MATCH WALL.

#6 X 6'-0" VERTICAL

AT TOP OF EXIST'G WALL.

CONC. REINFORCING BARS

INTO NEW FOUNDATION

AT 2'-0" O.C. EMBED 3'-0"

SHORE EXISTING WALL UNTIL

CONCRETE HAS ATTAINED

75% OR DESIGN STRENGTH

EXIST'G WALL

EXIST'G FOUNDATION

CONSTRUCTION

TO BE SHORED DURING

CONC. FOUNDATION WIDTH

VARIES V.I.F. MAX DIM

EDGE OF EXIST'G FOUNDATION — POUR NEW FOUNDATION

FROM EXIST'G WALL TO

TO REMAIN

AS SHOWN - TYP.

SEALANT

REMOVE EXIST. CONC.
WALL. BACKFILL TO
GRADE AND SEED.

RESIDENTIAL
SIDE

GRADE VARIES

REMOVE 12" OFF TOP
OF CONC. FOOTING &
REPLACE W/ BACKFILL,
TOPSOIL AND SOD.

SCALE: 1/8" = 1'-0"

date/revision:

Aug 03, 2015 Bulletin 2 (Revised)Sept. 08, 2015 Revised

SIEGAL/TUOMAALA

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project name:

Tile Shop

Renovation

project location:

37025 Grand

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www.sta-architects.com

suite 160

sheet title:

Site Screen-Wall Details

project number:

2075 sheet number:

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CONSTRUCTION PLANS FOR

TILE SHOP RENOVATION

PART OF NE 1/4 CORNER, SECTION 29 CITY OF FARMINGTON, OAKLAND COUNTY, MICHIGAN

PROPERTY DESCRIPTION:

Part of the Northwest 1/4 of Section 29, T1N- R9E, City of Farmington, Oakland County, Michigan, more particularly described as follows: Commencing at the Northwest Corner of Section 2 thence along the centerline of Grand River Avenue (50 foot wide 1/2 Right of Way) and the North line of Section 29, S 89°41'40" E, 914.91 feet, thence S 00°01'50" W, 50.00 feet, to the POINT OF BEGINNING of the Parcel to be described; thence continuing S 00°01'50" W, 297.00 feet; thence S 89°41'40" E, 326.00 feet; thence N 00°01'50" E, 297.00 feet; thence along the South Right of Way line of Grand River Avenue, N 89°41'40" W, 326.00 feet, to the POINT OF BEGINNING, containing 2.22 acres, more or less, and including the use of existing Grand River Avenue. Also subject to and including the use of a 32 foot wide Ingress/Egress Easement #2, as described below. Also subject to and including the use of a Variable Width Ingress/Egress Easement, as described below. Also subject to an existing 20 foot wide Consumers Power Company Gas Easement, as recorded in Liber 6309, Page 205, Oakland County Records. Also subject to an existing 12 foot wide Water Main Easement, as recorded in Liber 6309, Page 844, Oakland County Records. Also subject to an existing 12 foot wide Sanitary Sewer Easement, as recorded in Liber 6309, Page 845, Oakland County Records. Also subject to an existing 20 foot wide Sanitary Sewer Easement, as recorded in Liber 4417, Page 116, Oakland County Records. Also subject to any other

Part of the Northwest 1/4 of Section 29, T1N- R9E, City of Farmington, Oakland County, Michigan, more particularly described as follows: Commencing at the Northwest Corner of Section 29, thence along the centerline of Grand River Avenue (50 foot wide 1/2 Right of Way) and the North line of Section 29, \$ 89°41'40" E, 914.91 feet; thence S 00°01'50" W, 50.00 feet; thence along the South Right of Way line of Grand River Avenue, N 89°41'40" W, 674.91 feet; thence due South, 180.00 feet; thence N 89°41'40" W, 180.00 feet; thence along the easterly Right of Way line of Freedom Road, due South, 117.00 feet, to the POINT OF BEGINNING of the centerline of the 32 foot wide Easement to be described; thence along the centerline of said 32 foot wide Easement, S 89°41'40" E, 220.00 feet, to the POINT OF TERMINUS.

PROPOSED 32 FOOT WIDE INGRESS/EGRESS EASEMENT #2

Part of the Northwest 1/4 of Section 29, T1N- R9E, City of Farmington, Oakland County, Michigan, more particularly described as follows: Commencing at the Northwest Comer of Section 29; thence along the centerline of Grand River Avenue (50 foot wide 1/2 Right of Way) and the North line of Section 29, \$89°41'40" E, 914.91 feet; thence \$00°01'50" W, 50.00 feet: thence along the South Right of Way line of Grand River Avenue, N 89°41'40" W, 326.00 feet, to the POINT OF BEGINNING of the centerline of the 32 foot wide Easement to be described; thence along the centerline of said 32 foot wide Easement, \$ 00°01'50" W, 297.00 feet, to the POINT OF TERMINUS

PROPOSED VARIABLE WIDTH INGRESS/EGRESS EASEMENT

Part of the Northwest 1/4 of Section 29, T1N- R9E, City of Farmington, Oakland County, Michigan, more particularly described as follows: Commencing at the Northwest Corner of Section 29, thence along the centerline of Grand River Avenue (50 foot wide 1/2 Right of Way) and the North line of Section 29, S 89°41'40" E, 914.91 feet, thence S 00°01'50" W, 50.00 feet, to the POINT OF BEGINNING of the Easement to be described; thence continuing S 00°01'50" W, 297.00 feet; thence S 89°41'40" E, 52.00 feet; thence northeasterly along an arc right, having a length of 57.80 feet, a radius of 150.00 feet, a central angle of 22°04'44", and a long chord which bears N 11°04'12" E, 57.45 feet; thence northeasterly along an arc left, having a length of 57.80 feet, a radius of 150.00 feet, a central angle of 22°04'44", and a long chord which bears N 11°04'12" E, 57.45 feet; thence N 00°01'50" E, 135.13 feet; thence N 89°41'40" W, 35.00 feet; thence N 00°01'50" E, 49.00 feet; thence along the South Right of Way line of Grand River Avenue, S 89°41'40" E, 65.00 feet, to the POINT OF BEGINNING.

Bearings were established from Land Contract as recorded in Liber 45433, Page 747, Oakland County Records

CONSTRUCTION NOTES

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING NOTES AND ANY WORK INVOLVED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

1. THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

2. DO NOT SCALE THESE DRAWINGS AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

3. A GRADING PERMIT FOR SOIL EROSION-SEDIMENTATION CONTROL SHALL BE OBTAINED FROM THE GOVERNING AGENCY PRIOR TO THE START OF CONSTRUCTION 4. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANK TRUCK.

5. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND SPECIFICATIONS.

6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CITY, COUNTY, AND STATE OF MICHIGAN PERMITS.

CONSTRUCTED.

8. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS.

9. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION. 10. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHTS-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF CONSTRUCTION.

11. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.

12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.

13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY

14. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES. 15. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.

16. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT CLASS II).

17. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

18. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES. 19. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE

DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

20. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE

21. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.

22. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING

24. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE SODDED OR SEEDED AS SPECIFIED OR

25. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.

26. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE CITY. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE. 27. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL,

STATE AND FEDERAL REGULATIONS.

28. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT. 29. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR TO COMPACTING.

30. NO SEEDING SHALL BE DONE AFTER OCTOBER 15 WITHOUT APPROVAL OF THE ENGINEER.

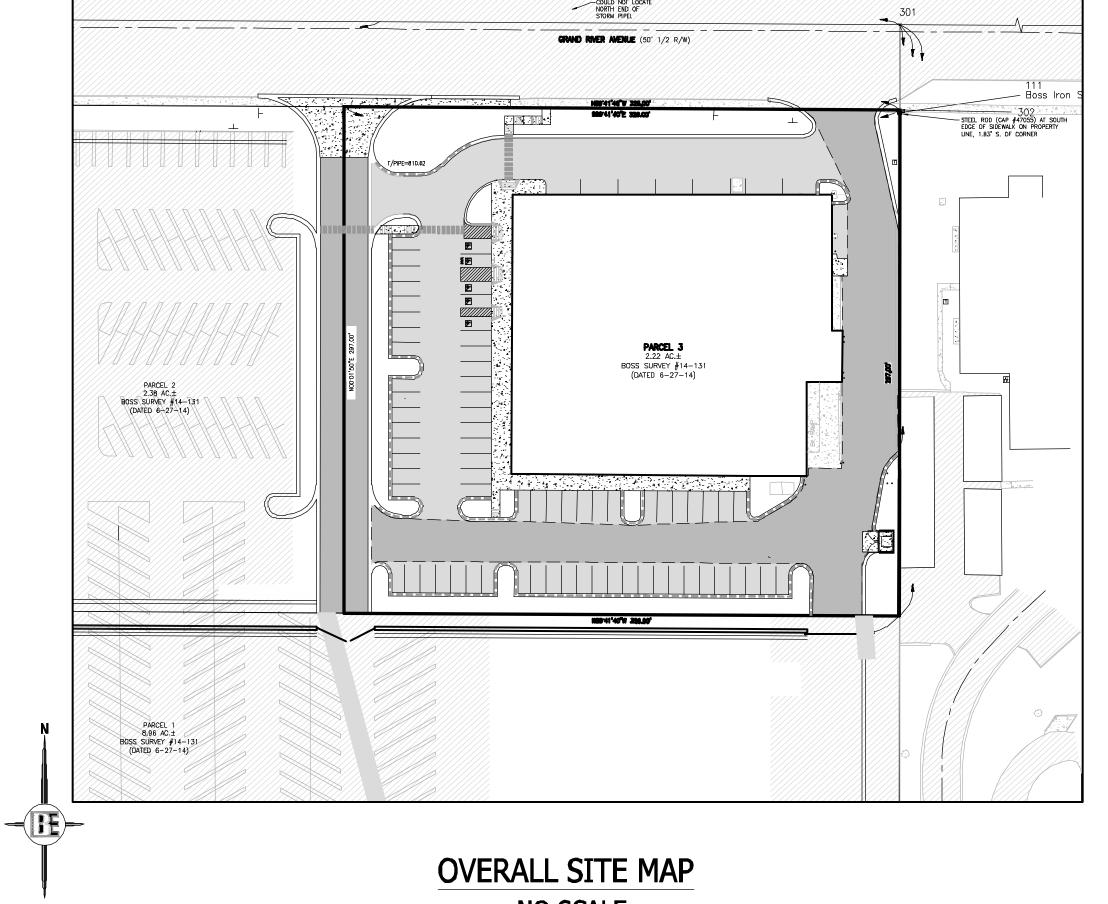
31. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

32. SOIL EROSION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BEEN RE-ESTABLISHED.

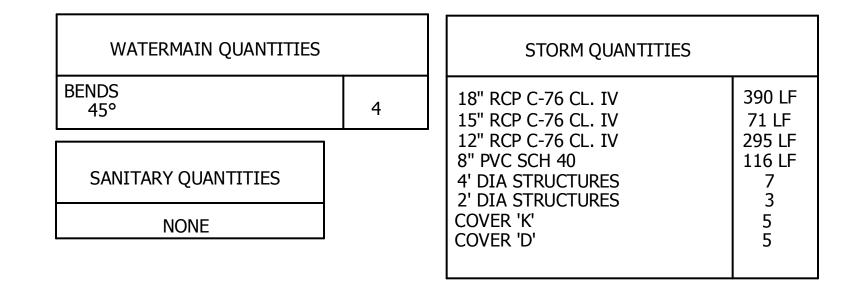
33. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.

INDEMNIFICATION STATEMENT

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.



NO SCALE (SEE SHEET 8A FOR OVERALL LANDSCAPE PLAN)





TILE SHOP RENOVATION

PREPARED FOR:

LOCATION MAP

SHEET INDEX

DESCRIPTION

EXISTING CONDITIONS & DEMOLITION PLAN

COVER SHEET

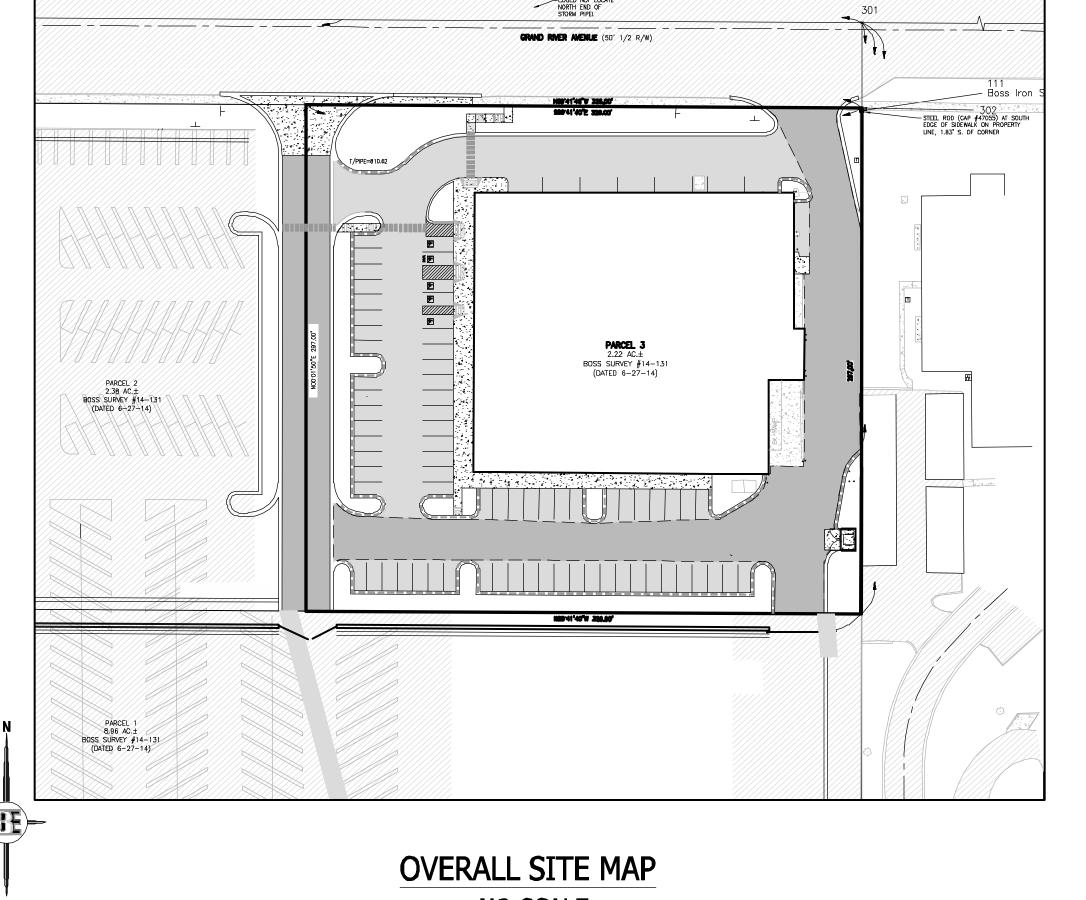
NO SCALE

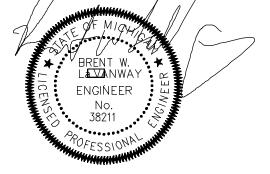
GRAND RIVER PROJECT, LLC 37000 GRAND RIVER AVE, SUITE 360 FARMINGTON HILLS, MI 48335 CONTACT: MR. TOM DUKE PHONE: (248) 476-3700

PREPARED BY:



_						
	4	RD		PER OHM REVIEW	09/08/15	
	3	ST		PER CITY REVIEW	08/10/15	
	2	ST		PER CITY REVIEW	04/08/15	
	1	ST		PER PC & CITY REVIEW	03/06/15	ISSUE DATE: 1/9/15
	ΝÔ	BY	CK	REVISION	DATE	JOB NO. 14-131





ARCHITECT

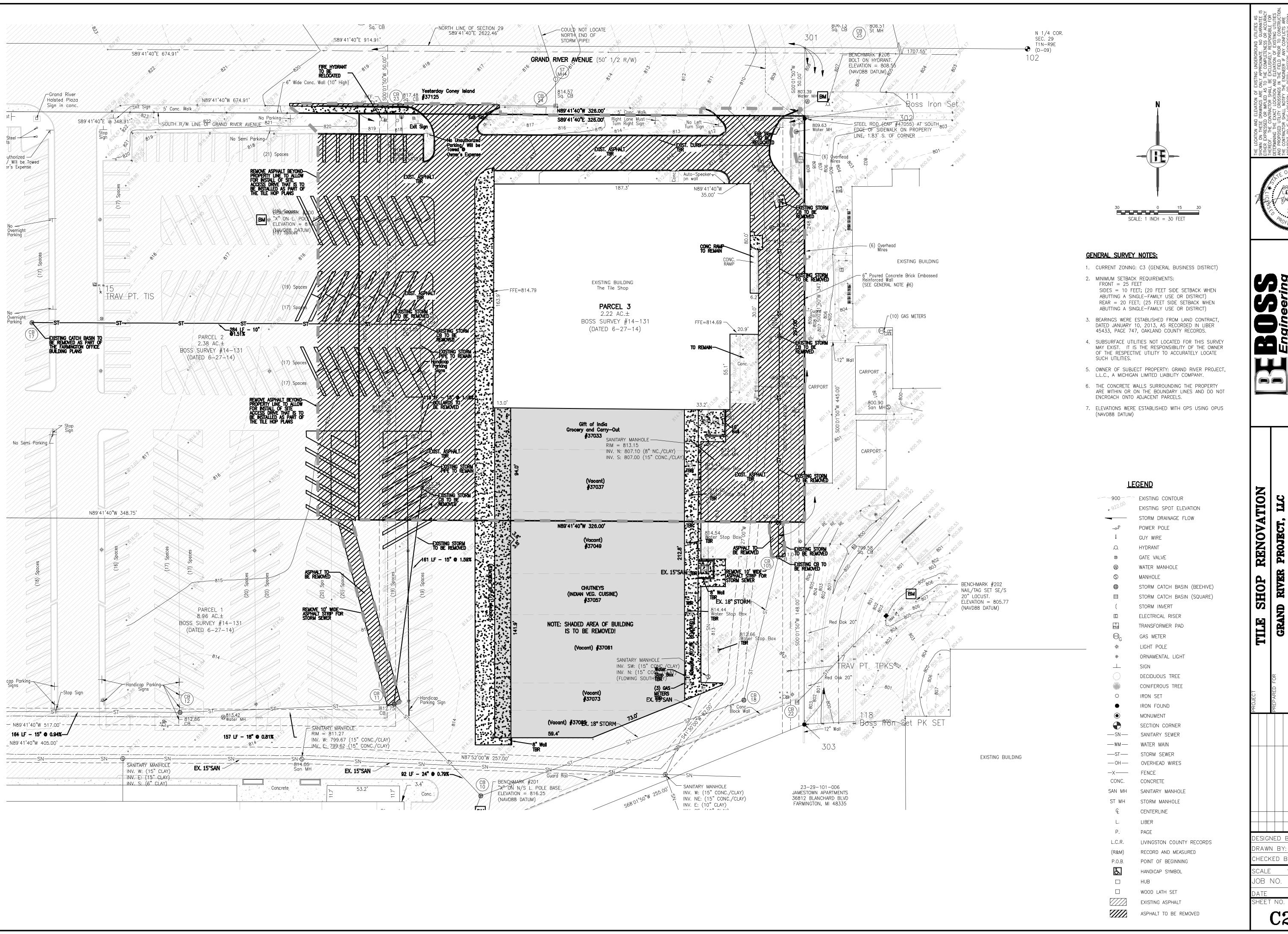
SIEGAL/TUOMAALA ASSOCIATES

CONTACT: MR. LONNY ZIMMERMAN

SOUTHFIELD, MI 48034

PHONE: (248) 352-0099

29200 NORTHWESTERN HIGHWAY, SUITE 160



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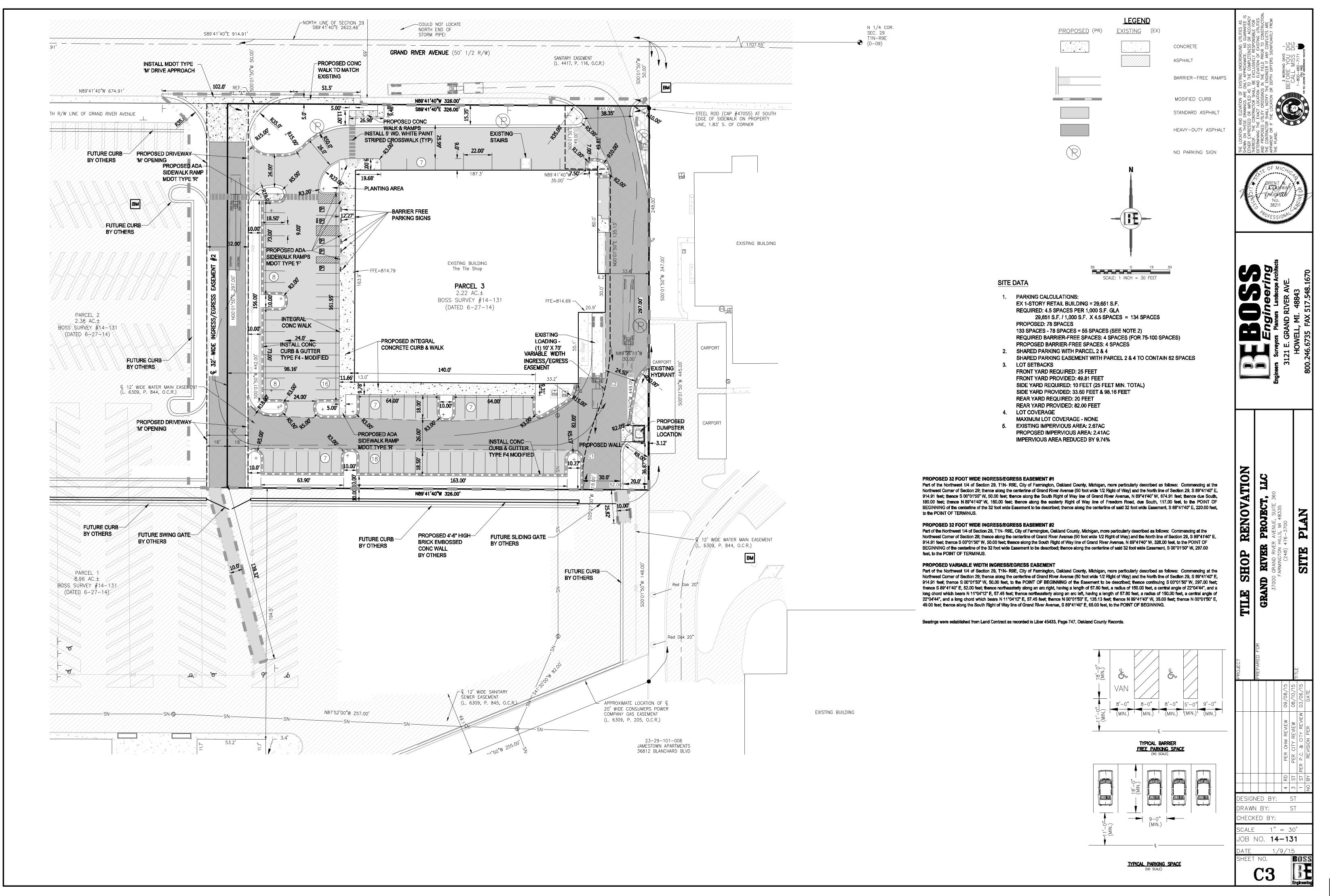
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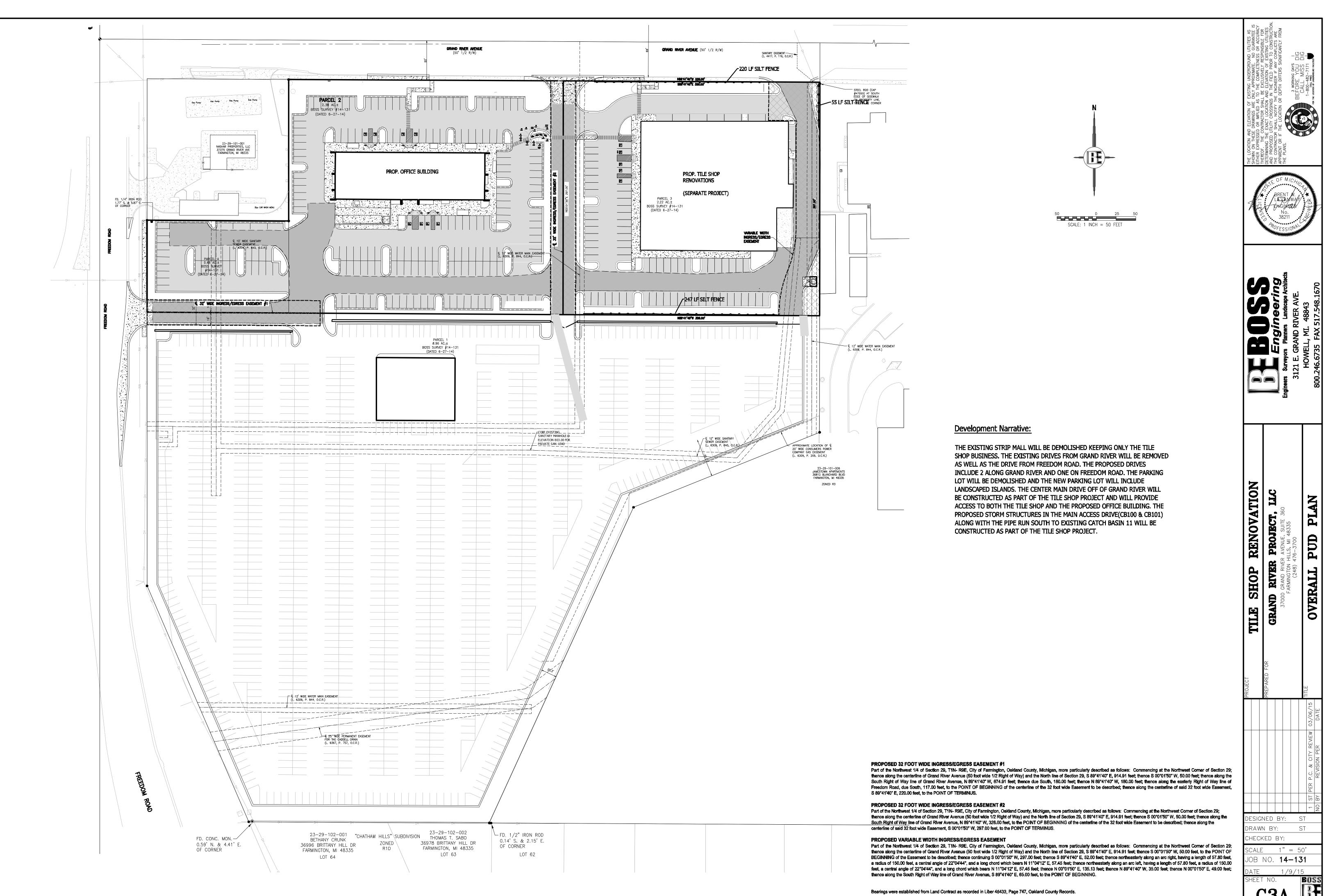
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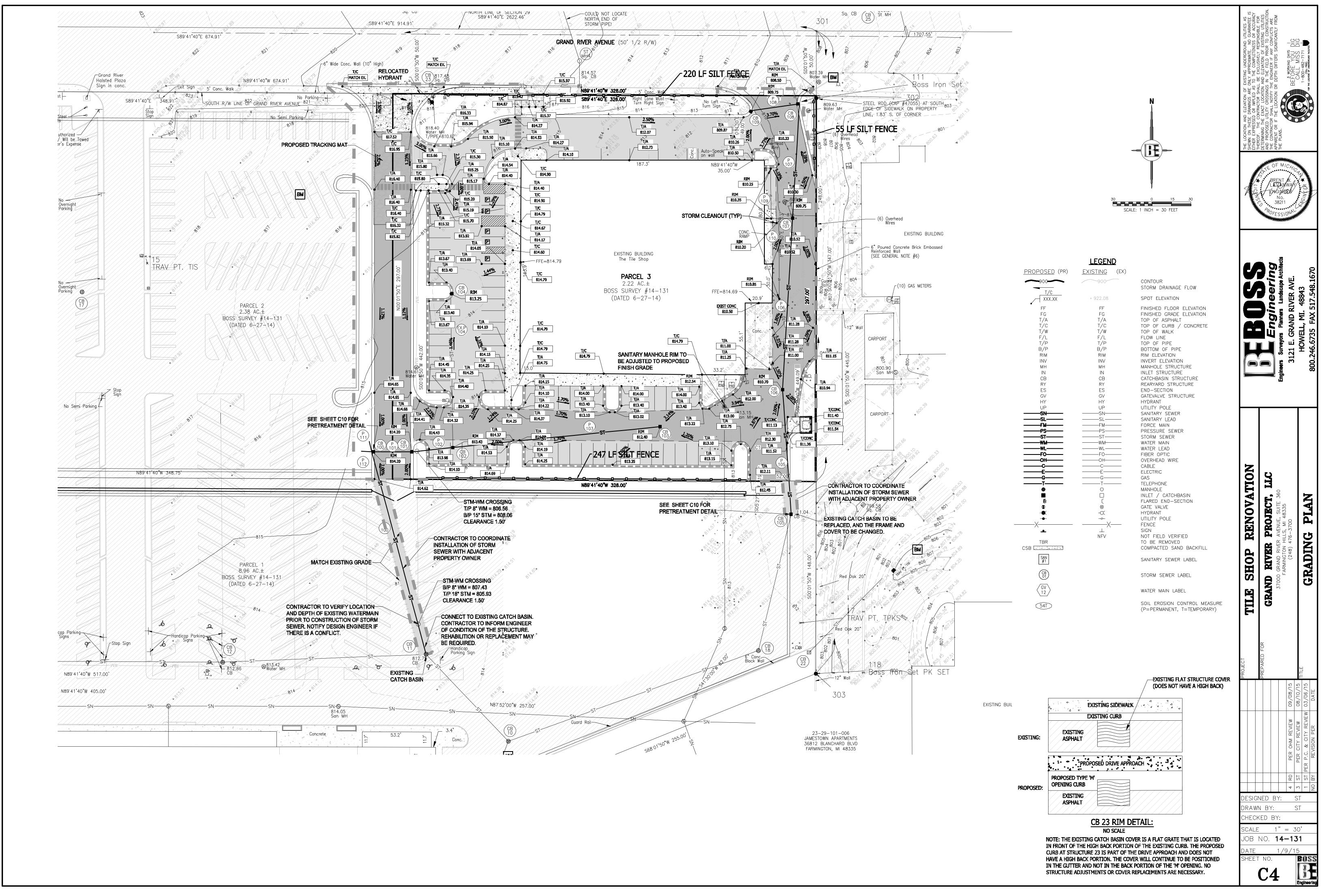


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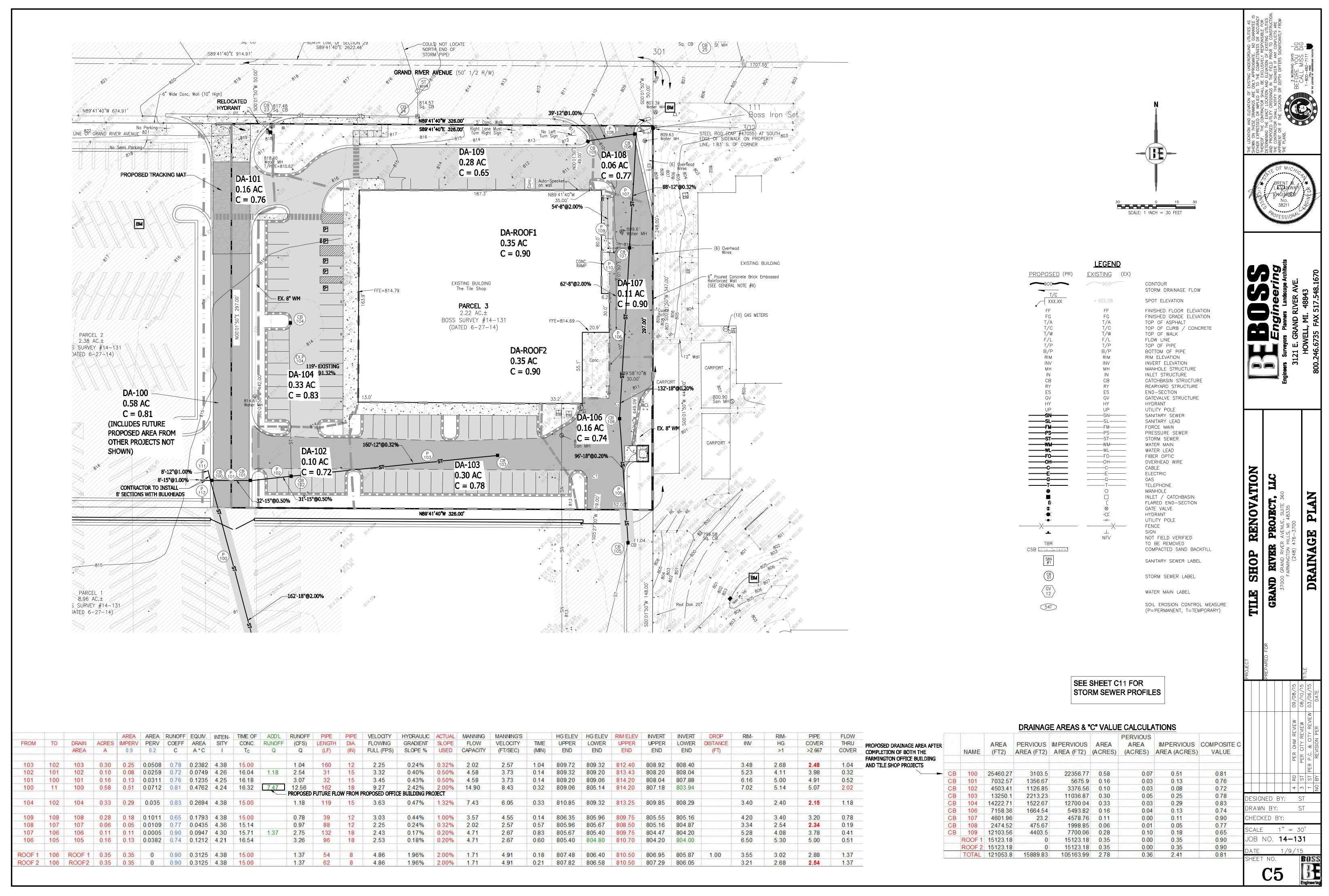


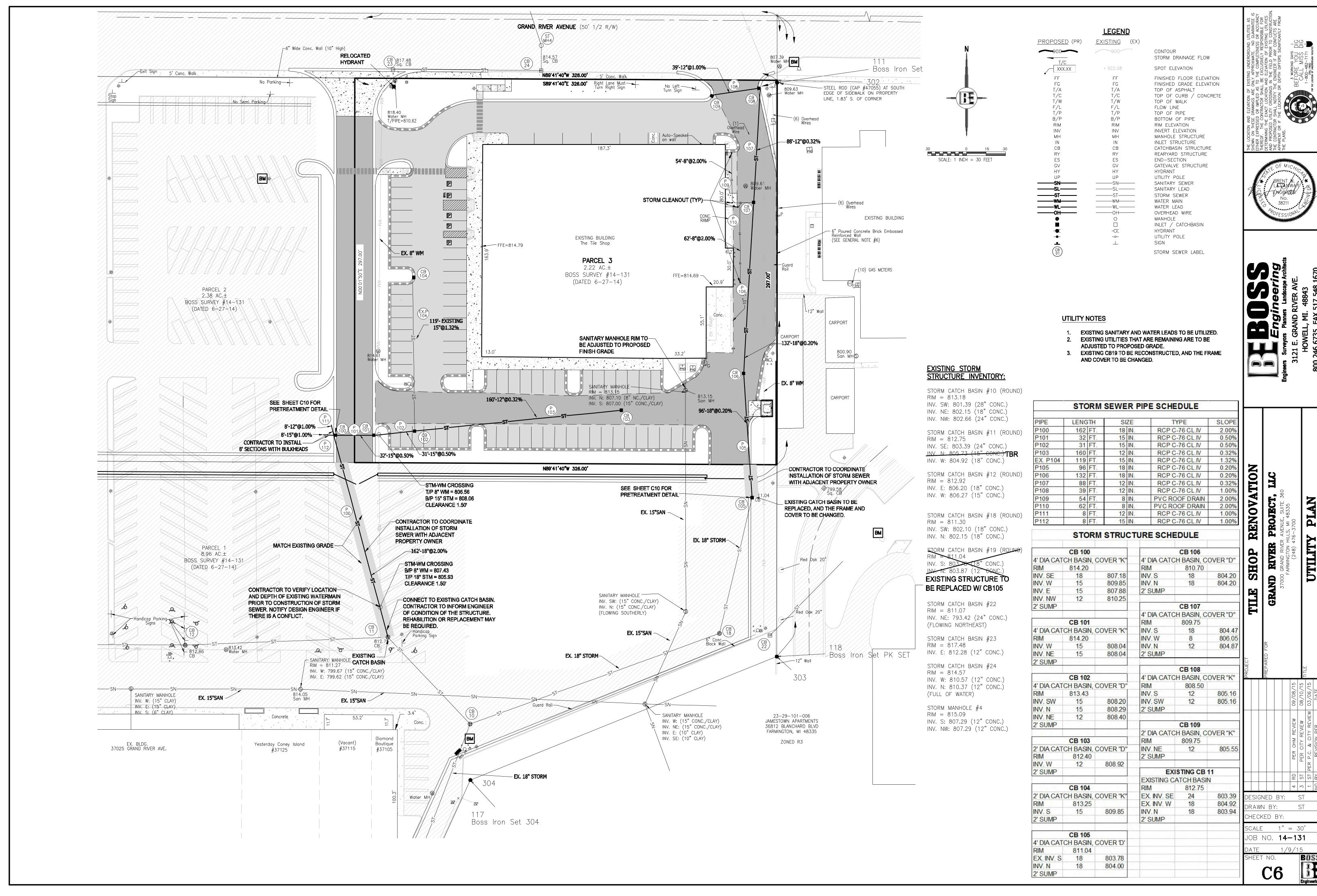
Attachment: 2075B - The Tile Shop - Civill Sheet Only 10.29.15 (2042 : Grand River-Halsted Plaza PUD Amendment)

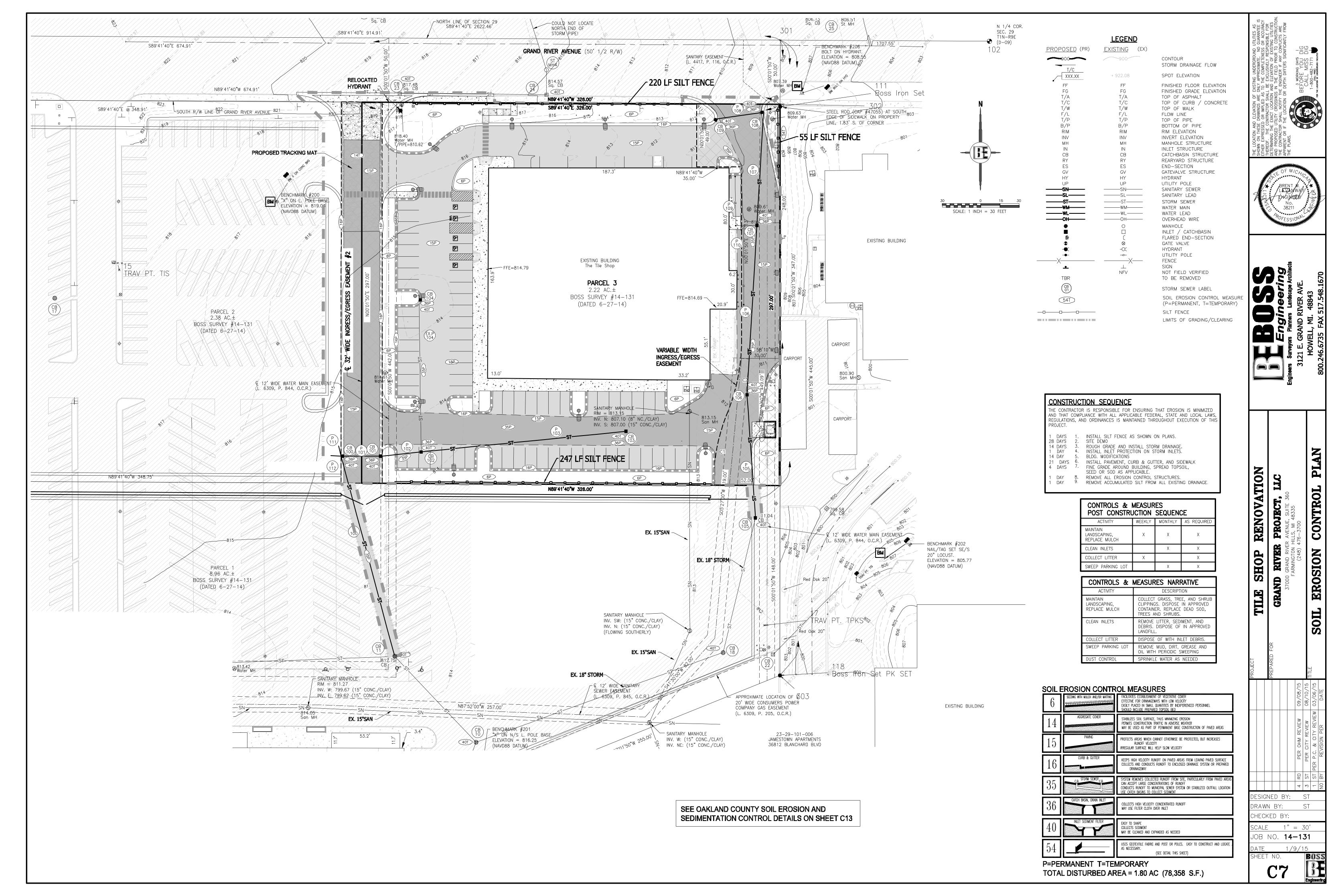
8.A.b



8.A.b







GENERAL LANDSCAPE NOTES:

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY AND SHALL BE NURSERY GROWN. ALL SIZES AND MEASUREMENTS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. ALL PLANT MATERIAL SHALL BE OF SELECTED SPECIMEN QUALITY AND HAVE A NORMAL HABIT OF GROWTH. ALL PLANT MATERIAL IS SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 2. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED STOCK OR CONTAINER STOCK, NO BARE ROOT STOCK IS PERMITTED, ALL PLANT BALLS SHALL BE FIRM, INTACT AND SECURELY WRAPPED AND BOUND.
- 3. ALL PLANT BEDS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND OTHER EXTRANEOUS OBJECTS AND POOR SOILS TO A MINIMUM DEPTH OF 12 INCHES AND BACKFILLED TO GRADE WITH PLANTING MIX (SEE
- 4. PLANTING MIXTURE SHALL CONSIST OF 4 PARTS TOPSOIL FROM ON SITE, 1 PART PEAT, AND 5 POUNDS OF SUPERPHOSPHATE PER CUBIC YARD OF MIX. INGREDIENTS SHALL BE THOROUGHLY BLENDED TO A UNIFORM CONSISTENCY.
- 5. ALL PLANT BEDS AND INDIVIDUAL PLANTS SHALL BE MULCHED WITH A 4 INCH LAYER OF SHREDDED BARK MULCH.
- 6. ALL PLANTS AND PLANT BEDS SHALL BE THOROUGHLY WATERED UPON COMPLETION OF PLANTING AND STAKING OPERATIONS.
- 7. THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 1 YEAR FROM THE DATE THE WORK IS ACCEPTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, WITHIN A SPECIFIED PERIOD TIME, ALL DEAD PLANTS, AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT DURING AND AT THE END OF THE GUARANTEE PERIOD. REPLACEMENT STOCK SHALL CONFORM TO THE ORIGINAL REQUIREMENTS.
- 8. EDGING, WHERE NOTED ON THE PLANS, SHALL BE BLACK ALUMINUM EDGING, 3/16" X 4". INSTALL PER MANUFACTURER'S INSTRUCTIONS. ALL EDGING SHALL BE INSTALLED IN STRAIGHT LINES OR SMOOTH CURVES WITHOUT IRREGULARITIES.
- 9. SOD SHALL BE DENSE, WELL ROOTED TURF, FREE OF WEEDS. IT SHALL BE COMPRISED OF A BLEND OF AT LEAST TWO KENTUCKY BLUEGRASSES AND ONE FESCUE. IT SHALL HAVE A UNIFORM THICKNESS OF 3/4 INCH, AND CUT IN UNIFORM STRIPS NOT LESS THAN 10 INCHES BY 18 INCHES. SOD SHALL BE KEPT MOIST AND LAID WITHIN 36 HOURS AFTER CUTTING.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ALL SODDED AREAS THAT BROWN OUT OR HAVE NOT FIRMLY KNITTED TO THE SOIL BASE WITHIN A PERIOD OF ONE MONTH SHALL BE REPLACED BY THE CONTRACTOR, AT NO COST TO THE OWNER.

10. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDED AND MULCHED.

SEED MIXTURE SHALL BE AS FOLLOWS: KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES:

ADELPHI, RUGBY, GLADE OR PARADE) 30% RUBY RED OR DAWSON RED FINE FESCUE 30% 20% ATLANTA RED FESCUE PENNFINE PERENNIAL RYE 20%

THE ABOVE SEED MIXTURE SHALL BE SOWN AT A RATE OF 250 POUNDS PER ACRE. PRIOR TO SEEDING, THE TOPSOIL LAYER SHALL BE FERTILIZED WITH A COMMERCIAL FERTILIZER WITH A 10-0-10

10% NITROGEN: A MINIMUM OF 25% FROM A UREAFORMALDEHYDE SOURCE 0% PHOSPHATE 10% POTASH: SOURCE TO BE POTASSIUM SULFATE OR POTASSIUM NITRATE.

THE FIRST FERTILIZER APPLICATION SHALL BE AT A RATE OF 10 POUNDS OF BULK FERTILIZER PER 1000 SQUARE FEET.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ANY PART OF THE AREA THAT FAILS TO SHOW A UNIFORM GERMINATION SHALL BE RESEEDED AND SUCH RESEEDING SHALL CONTINUE UNTIL A DENSE LAWN IS ESTABLISHED. DAMAGE TO SEEDED AREAS RESULTING FROM EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

- 11. ALL AREAS OF THE SITE SCHEDULED FOR SEEDING OR SODDING SHALL FIRST RECEIVE A 4 INCH LAYER OF CLEAN, FRIABLE TOPSOIL. THIS SOIL SHALL BE DISCED AND SHALL BE GRADED IN CONFORMANCE WITH THE GRADING PLAN.
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AND TO INFORM THE LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCING LANDSCAPING.
- 13. ALL PLANT MATERIALS SHALL BE FREE OF WEEDS, INSECTS AND DISEASE.

REMOVE TOP 1/3-

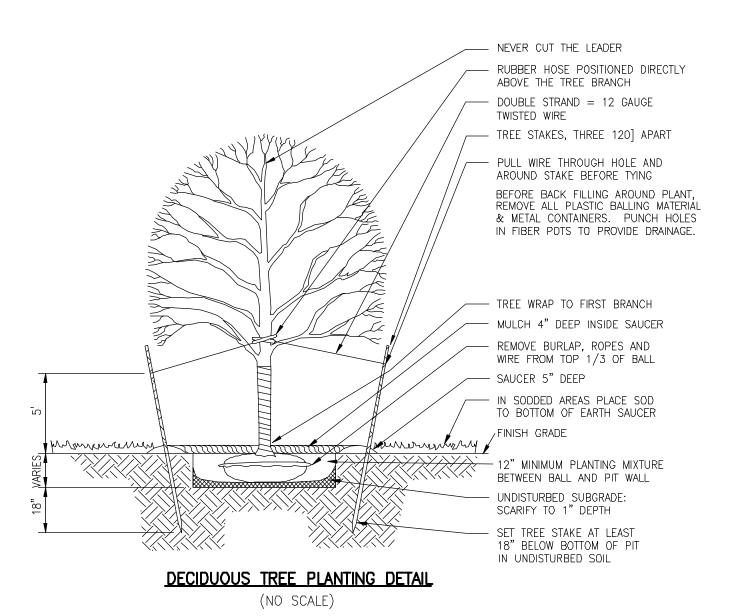
& PITWALL

BURLAP, ROPES & WIRE

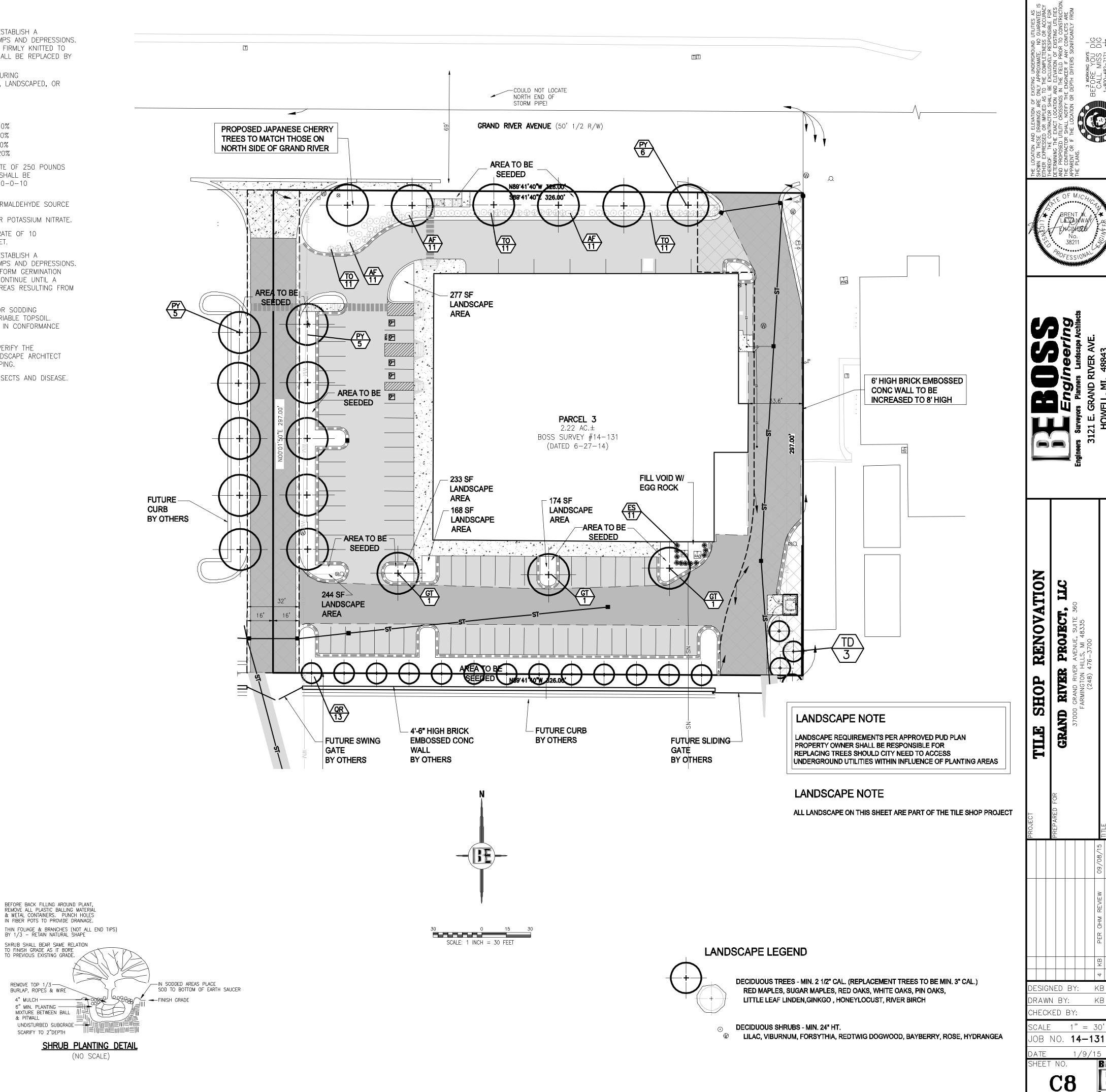
6" MIN, PLANTING ——

MIXTURE BETWEEN BALL

SCARIFY TO 2"DEPTH

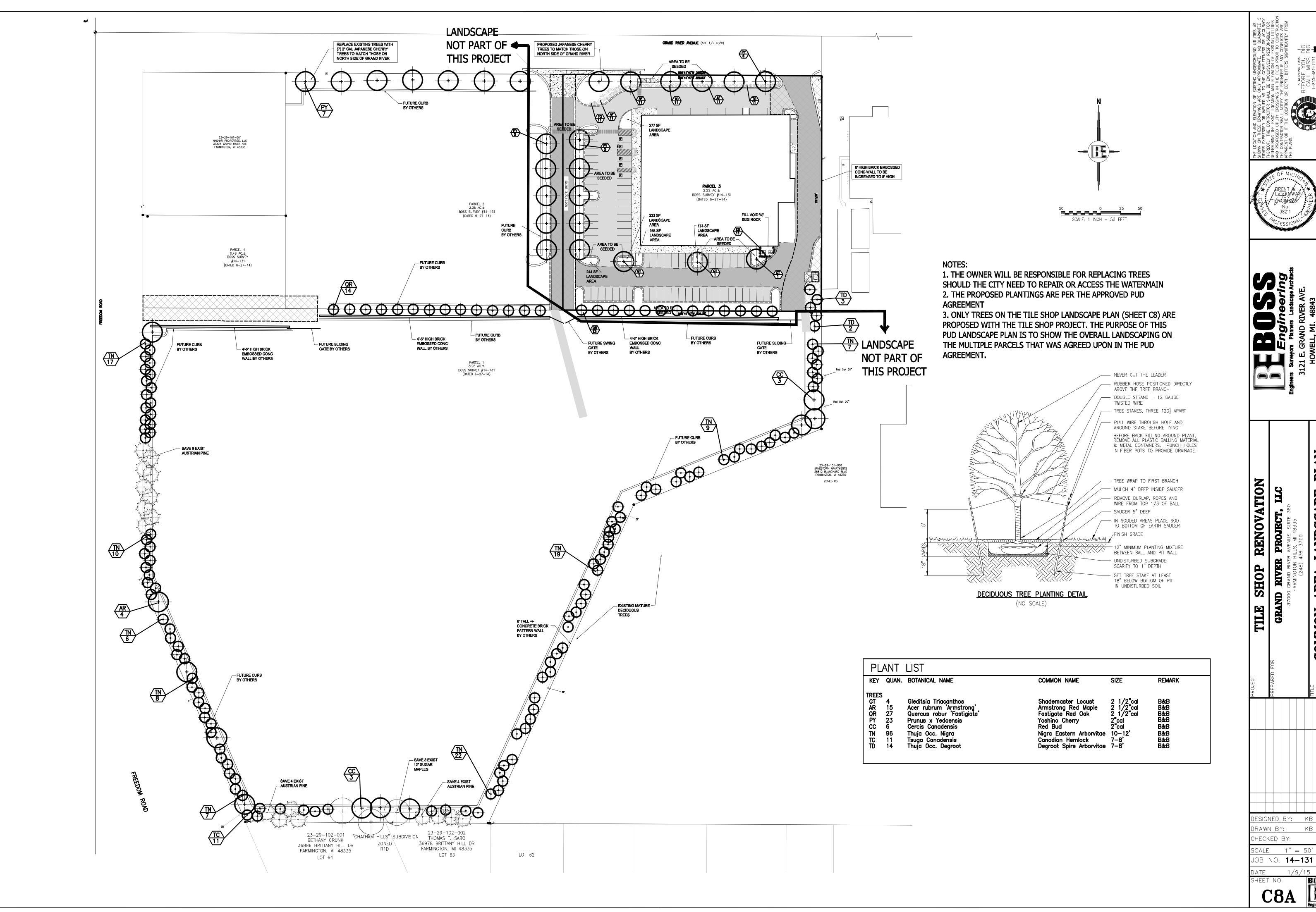


PL	ANT	LIST			
KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	REMARK
TREES					
GT	3	Gleditsia Triacanthos	Shademaster Locust	2 1/2"cal	B&B
QR	13	Quercus robur 'Fastigiata'	Fastigate Red Oak	2 1/2"cal	B&B
QR PY TD	16 3	Prunus x Yedoensis	Yoshino Cherry Degraot Spire Arborvitae	2 1/2"cal 2"cal 7-8"	B&B
TD	3	Thuja Occ. Degroot	Degraot Spire Arborvitae	7–8	B&B
SHRUE	3S				
AF	33	Cornus stolonifera 'Arctic Fire'	Arctic Fire Dogwood	No. 2	CONT
TO	33	Thuja occidentalis 'Mr. Bowling Ball'	Mr. Bowling Ball	No. 2	CONT
GRASS	SES	•	Arborvitae		
ES	11	Eragrostis spectabilis	Purple Love Grass	No. 2	CONT
		•	•		

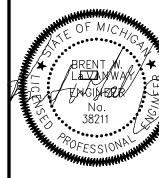


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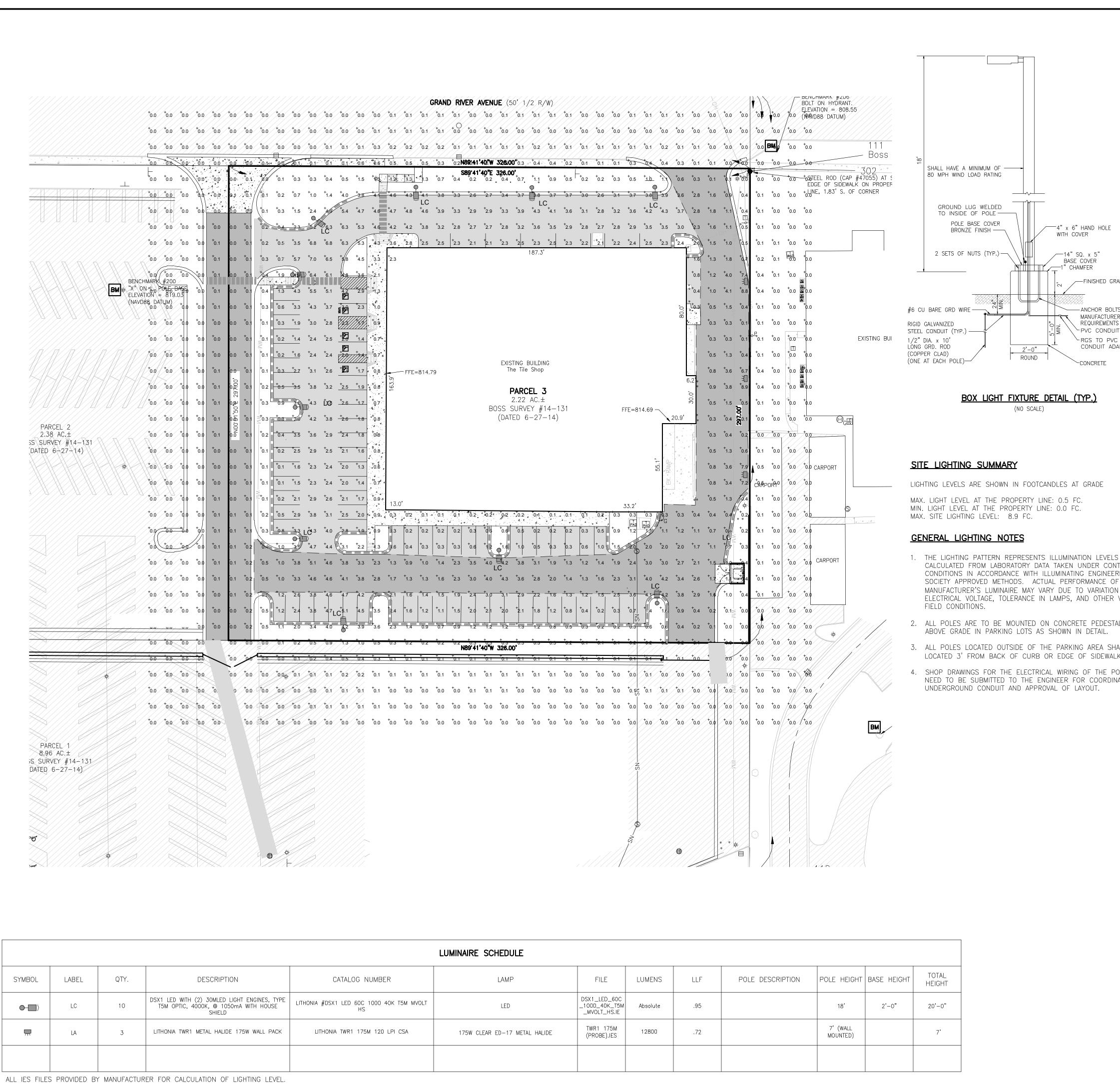


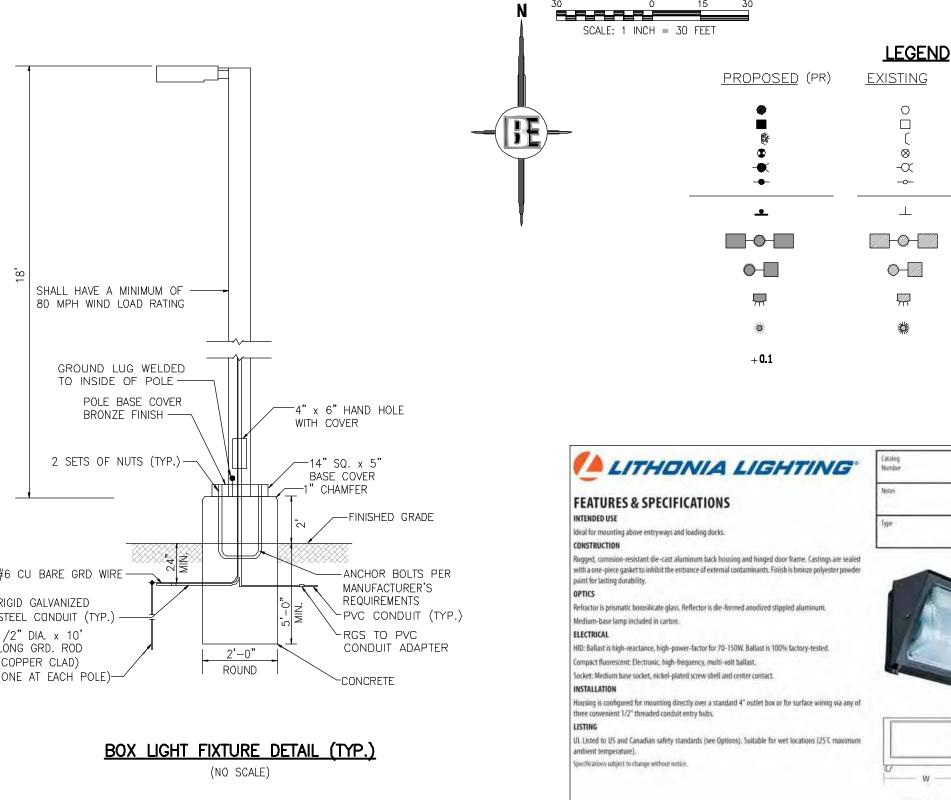


COMMON

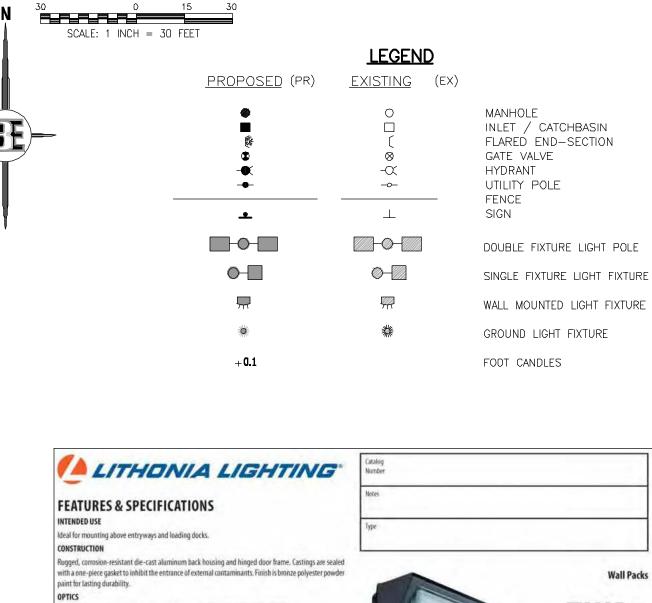
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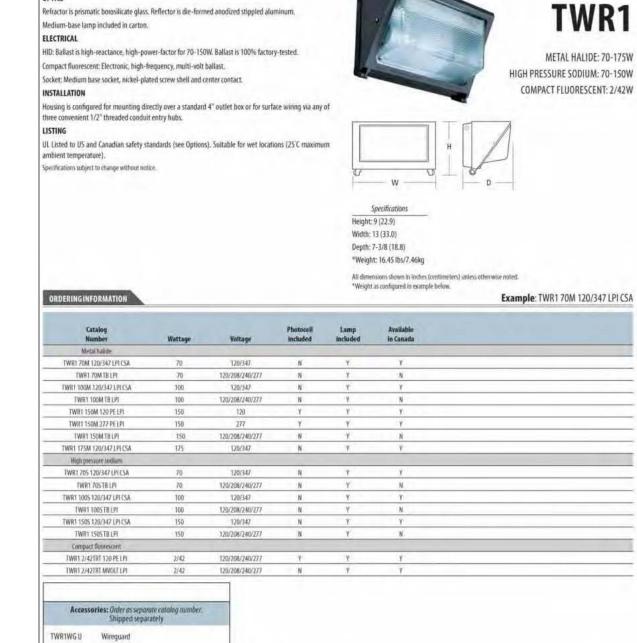
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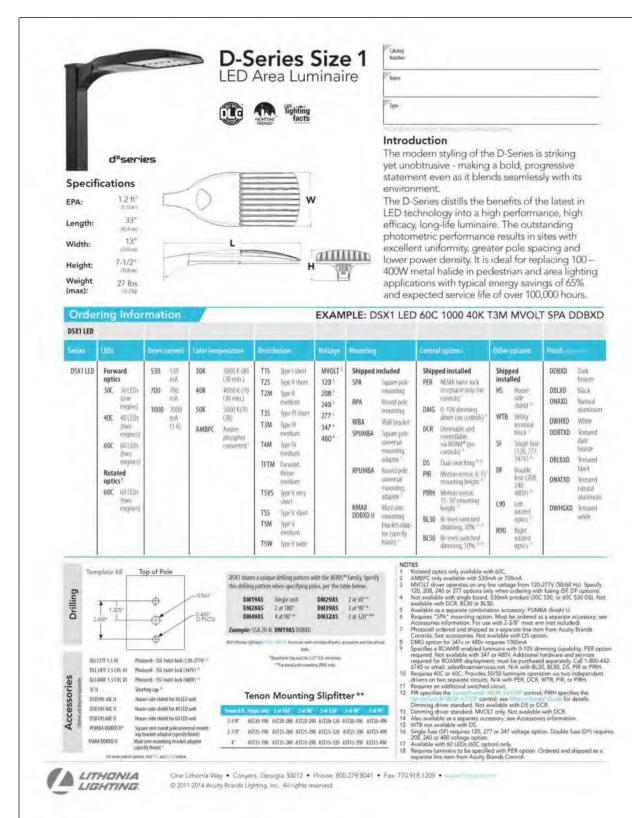




- CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE
- 2. ALL POLES ARE TO BE MOUNTED ON CONCRETE PEDESTALS 2'
- 3. ALL POLES LOCATED OUTSIDE OF THE PARKING AREA SHALL BE LOCATED 3' FROM BACK OF CURB OR EDGE OF SIDEWALKS.
- 4. SHOP DRAWINGS FOR THE ELECTRICAL WIRING OF THE POLES NEED TO BE SUBMITTED TO THE ENGINEER FOR COORDINATION OF







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OAKLAND COUNTY SOIL EROSION PERMIT TEMPLATE TEMPORARY CONTROLS AND SEQUENCE

Notify Oakland County Drain Commissioner's Office 24 hours prior to start of grade work. 2. In accordance with Public Act No. 53, of 1974 the permit holder shall call Miss Dig for staking and locating of utilities, at least 72 hours in advance of the start of any work.

PERMITTING STANDARDS

(IMPORTANT NOTICE) Retention/detention ponds shall be excavated, topsoiled, seeded, mulched and tacked prior to the start of massive earth disruption. Ingress/egress must have large crushed rock to reduce the tracking of soil onto the public traffic areas. See detail items below.

3. Silt fabric fence as shown on plans shall be placed along perimeter on all low lying areas of the construction site to filter runoff before leaving project site. 4. All temporary erosion control devices shall be installed

prior to the start of massive earth disruption. All temporary erosion control devices as noted on plans shall be installed prior to the start of massive earth distribution.

Plan does denote a detailed erosion control device to restrict tracking of material onto the highway. Stone diapers shall be installed at all ingress/egress areas of the site prior to the start of massive earth disruption. Diapers shall be of crushed stone and shall have a minimum length of 75' lineal feet.

DETENTION PONDS

Retention/detention ponds shall be excavated, topsoiled, seeded, mulched and tacked prior to the start of massive earth disruption.

8. Detention pond outlets shall be of the standpipe and stone filter system, with trash screen. Outlet flow shall not exceed 0.20 cubic feet of water per second/per acre. Pond dikes shall have a minimum of one (1) foot of freeboard. An emergency spillway shall be constructed within the freeboard level. 9. The emergency spillway from the detention pond shall be

sodded and pegged, or rip rapped, 15 feet past the toe of the slope of the berm. 10. Dikes and berms shall be free of all organic matter.

11. All unimproved disturbed areas shall be stripped of topsoil which will be stored onsite during the excavating stage. Topsoil piles shall be seeded and mulched, or matted with straw in the non growing season, immediately after the stripping process is completed, to prevent wind and water erosion. 12. Soil erosion controls shall be monitored daily by the on—site engineer, or contractor, whichever case applies.

SLOPES AND DITCHES

PROPOSED GROUND

TO TOP OF LOWEST PIPE -

13. On site ditches shall be of the flat bottom type minimum width of 2' with a minimum of 3 horizontal to 1 vertical side slopes, 3:1. 14. Ditches with steep slopes will need flow checks to prevent

scouring of the ditch bottom. These shall be installed as directed by the engineer or inspector. 15. Slopes in excess of 3 horizontal to 1 vertical shall not be

used except with a mechanical device such as a retaining wall, terracing, or other prior approved device. STORM DRAINS

16. All storm water structures, catch basins and/or manholes, if block, shall be plastered on both the inside and outside of the structures. Grouting and pointing will be necessary at the casting and structure joint to prevent leakage and the resulting soil movement, around the structure.

Storm water inlets shall have as a temporary control a straw bale barrier and stone filter installed around the inlet during construction. As an alternative to the straw bale barrier, c silt sack may be installed the control shall be installed as soon as the structure is built and inspected daily. Siltsacks will need to be inspected after each rainfall

FRAME AND GRATE AS -

CALLED FOR ON PLANS

ELBOW FOR PRETREATMENT

-PLACE CASTING ON MIN. OF

TWO COURSES OF PRECAST

◄ 4" R.C. PRECAST WALL

CB100 AND CB105 DETAIL

DETAIL FOR UNDERDRAIN DETAILS

* SEE 4FT DIA. CATCH BASIN W/ SUMP

NO SCALE

- 8" R.C. PRECAST

ADJUSTMENT RINGS

All storm drain outlets that do not empty into the retention/detention pond shall have a temporary 5'x10'x3' sump installed at the termination of the storm sewer. Upon completion of the stabilization work the sump area shall be filled and rip rapped with cobble stone. Silt traps shall be inspected after each storm.

20. Storm water outlets denote rip rap. All outlets shall be rip rapped over keyed filter fabric with a minimum of 15 sq. yards of 6" or larger cobble stone. 21. Rip rap as noted on the plan shall be of a funnel shape construction, width shall increase as distance from the outlet point increases at a 3:1 ratio. Rip—rap shall be of cobble stone, 6" in diameter or larger.

Grouting may be necessary, and shall be a minimum of 6" in depth with the cobble set in the cement slurry. 23. Storm water outlet is in need of a splash block which is not noted on the plan. Install splash block. 24. It will be necessary for the developer to have the storm drainage lines cleaned prior to final inspection, if required. this work shall be done by a professional sewer cleaning firm and certified in writing by the project engineer. All sumps and temporary silt traps shall also be cleaned at this time.

STABILIZATION

25. All unimproved disturbed areas shall be re—top soiled, with a minimum of 3" of material, seeded, mulched and tacked within 15 days of the completion of the massive earth disruption. In the non-growing season straw matting will suffice. Hydroseeding will be an acceptable alternate for mulching. Extreme care should be exercised in spring and fall periods as a frost will break the bind of the hydroseeding, which will affect the

effectiveness of this procedure. 26. In the non-growing season, temporary stabilization of massively exposed areas for winter stabilization shall be done with straw matting. 27. Permit fees during the winter period of non-construction,

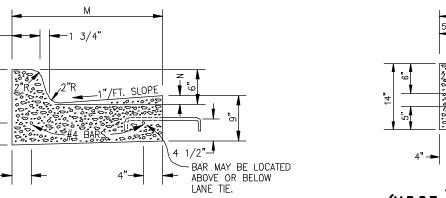
(December 1 through March 31), shall not be imposed if the permit holder temporarily stabilizes the exposed areas with straw matting, and other approved controls, and obtains a winter stabilization certificate from this office. 28. Periodic inspections will be made throughout the course of the project. It will be the responsibility of the managers of the project to contact The Oakland County Drain Commissioner for the final inspection at the end of the project. 29. This Commercial Permit is valid for the mass earth movement, the installation of roads, drains, and utilities and is not for

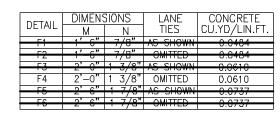
any single family residence. 30. The issuing building department shall not issue the Certificate of Occupancy until the final inspection letter has been obtained.

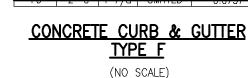
MAINTENANCE SCHEDULE FOR SOIL EROSION CONTROLS

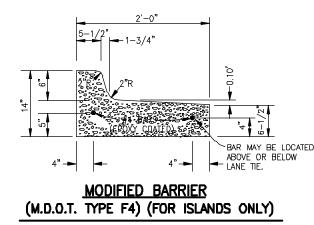
Silt fence shall be inspected weekly and after each major storm event. Maintenance shall include removal of accumulated silt and replacement of torn sections. Silt fence shall be removed when all contributing areas have been stabilized. Tracking pad shall be inspected monthly for accumulated dirt. Tracking pad shall be replaced when the stones are choked with dirt. Tracking pad shall be removed immediately prior to the first course of asphalt being laid.

Detention Pond shall be inspected quarterly on a permanent basis. Maintenance shall include sediment removal, embankment stabilization and maintaining the outlet structure in good condition. 4. Catch basins shall be inspected annually for accumulation of sediment. All sediment must be removed and disposed of properly when the sump is full.

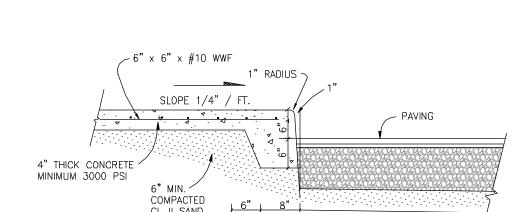




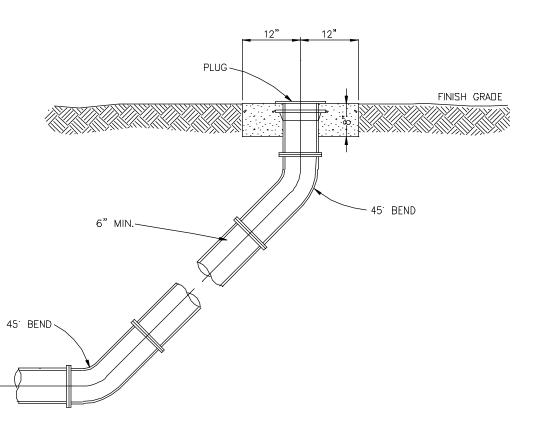




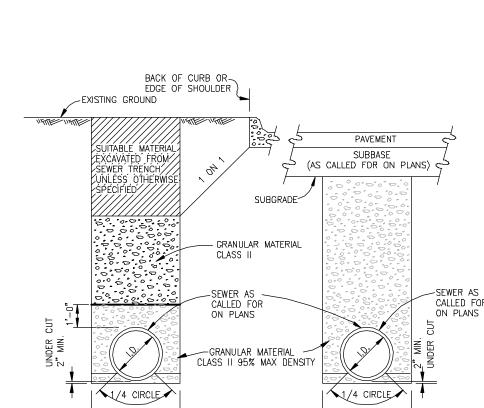
(NO SCALE)



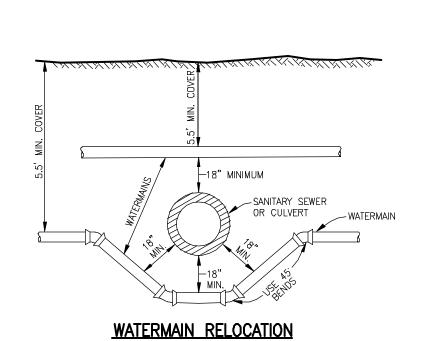
INTEGRAL CONCRETE WALK / CURB DETAIL



STORM SEWER CLEANOUT NO SCALE



SEWER UNDER ROADBED OR WITHIN INFLUENCE OF ROADBED (REF. MDOT DETAIL IV-83D) NO SCALE



SEWER OR CULVERT CROSSING

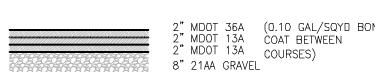
(NO SCALE)

PIPE RESTRANT SCHEDULE GROUND BURIED PRESSURE PIPE – DUCTILE IRON AND PVC PIPE								
PIPE DIAMETER TEES, 90° 45° BENDS BENDS BENDS BENDS DEAD ENDS REDUCERS (ONE SIZE REDUCERS PRODUCERS) REDUCERS (ONE SIZE REDUCERS PRODUCERS)								
4	13	5	3	1	40			
6	19	8	4	2	58	31		
8	24	10	5	2	75	30	70	
12	34	14	7	3	107	57	116	
16	43	18	9	4	139	59	137	
20	52	22	10	5	169	59	134	
24	61	25	12	6	199	60	132	
30	73	30	15	7	242	85	168	
36	84	35	17	8	281	84	188	

LENGTHS OF PIPE RESTRAINT ARE GIVEN IN FEET. IF REQUIRED PIPE DIAMETER IS NOT LISTED IN THIS TABLE, THE NEXT LARGEST PIPE DIAMETER SHALL BE USED. THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI (OPERATING PRESSURE PLUS WATER HAMMER). FOR OTHER TEST PRESSURES. ALL VALUES TO BE INCREASED OR DECREASED PROPORTIONALLY THE VALUE PROVIDED OF RESTRAINT LENGTH ARE IN EACH DIRECTION FROM THE POINT OF DEFLECTION OR TERMINATION EXCEPT FOR TEES,

AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE STEM. IF TIE RODS ARE USED, USE FOUR RODS MINIMUM AND ADD 1/8-INCH TO BAR DIAMETER AS CORROSION ALLOWANCE. * SIZE REDUCTION IS BASED UPON THE PIPE DIAMETER SHOWN IN THIS TARLE

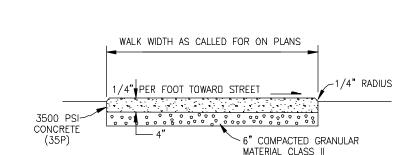
S	BASED	UPON	THE	PIPE	DIAMETER	SHOWN	IN	THIS	TABLE.	
		INTE	RNAL	PRES	SURE:					180
		PIPE	DEP	TH:						5
		BEDI	SING	CLASS	S:				7	TYPE 4
		SOIL	TYP	Ξ:					GOOD	SAND
		SAFE	TY F	ACTOF	:					2



HEAVY DUTY ASPHALT SECTION

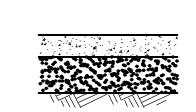
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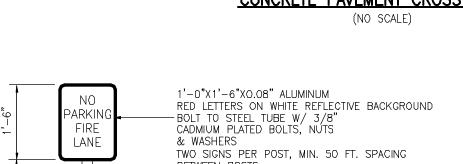
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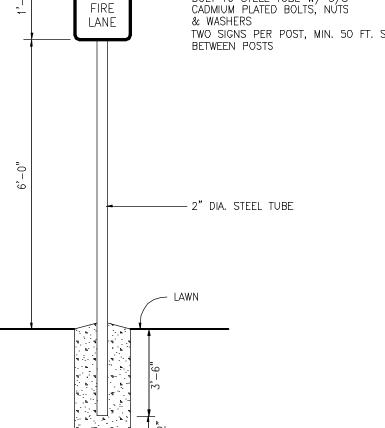
<u>" CONCRETE SIDEWALK</u>



8" REINF, CONCRETE - 3500 PSI 7" COMPACTED MDOT CLASS II SAND BASE COMPACTED SUBBASE

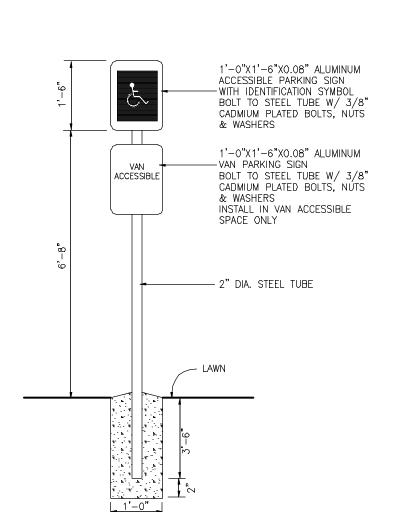
CONCRETE PAVEMENT CROSS SECTION



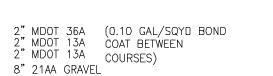


NO PARKING SIGN DETAIL

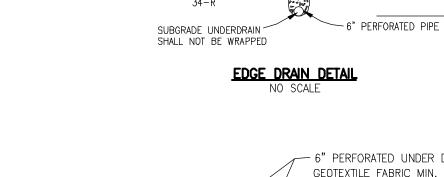
(NO SCALE)



HANDICAP PARKING SIGN DETAIL







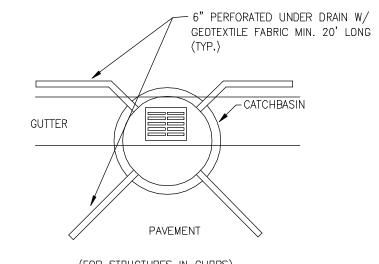
OPEN GRADED AGGREGATE -

GEDTEXTILE FABRIC IS WRAPPED -OVER THE TOP OF THE TRENCH.

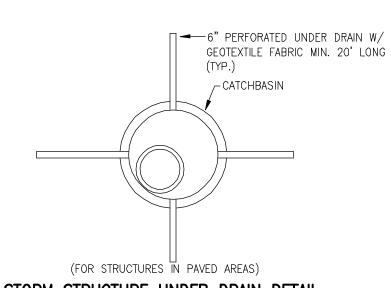
THE SUBBASE WITH 34-R.

WRAP THE GEOTEXTILE FABRIC APPROX.

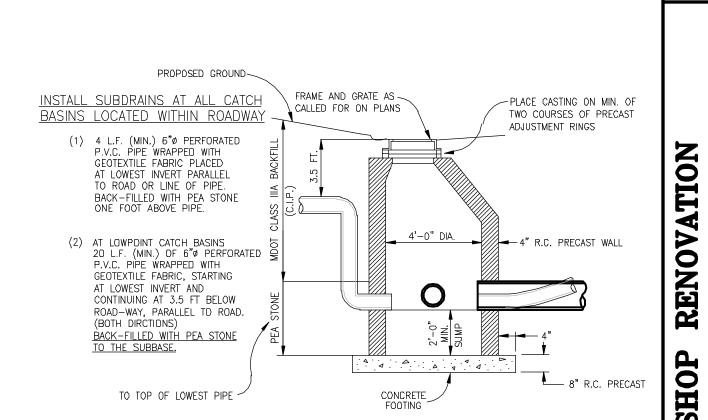
6" BELOW SUBBASE AND FILL UP TO



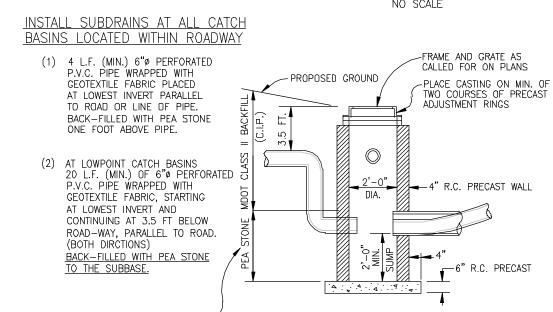
(FOR STRUCTURES IN CURBS) STORM STRUCTURE UNDER DRAIN DETAIL NO SCALE



STORM STRUCTURE UNDER DRAIN DETAIL NO SCALE



4 FT. DIA. CATCH BASIN W/SUMP NO SCALE

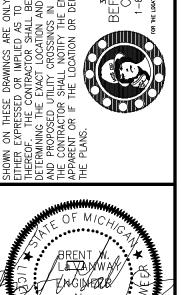


TO TOP OF LOWEST PIPE -

2 FT. DIA. CATCH BASIN W/SUMP NO SCALE

STRUCTURE FRAMES & COVERS								
COVER	TYPE	USE .	MANUFA OR E	CTURER QUAL	TYPE OF COVER OR GRATE			
			EAST JORDAN	NEENAH	OK GKAIL			
A MH		MH ALL		R-1415	SANITARY—SELF SEALIN STORM—VENTED			
В	CD & INLET	TYPE DA CURD	7005	D 7079 A				
D	CD & INCLI	TIFE UZ CONU	7000	N-3030-A				
K	CB & INLET	TYPE C & F CURB	7045	R-3031-B	FLAT GRATE WITH VERT. 4" OPEN THROAT			
0	CD & INILET	VALLEY CUDD	7065	D 7074 D				
Ü	CD & INCL	VALLET COND	7000	N-3034-B				
D	CB & INLET	PARKING LOTS	1020-MI	R-2560-D	FLAT GRATE			
E	CB & INLET	LAWN AREA OR DITCH	1020-01		BEEHIVE GRATE 4" HIGH			

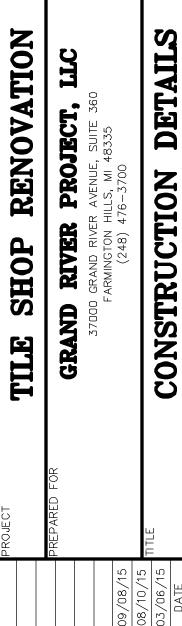




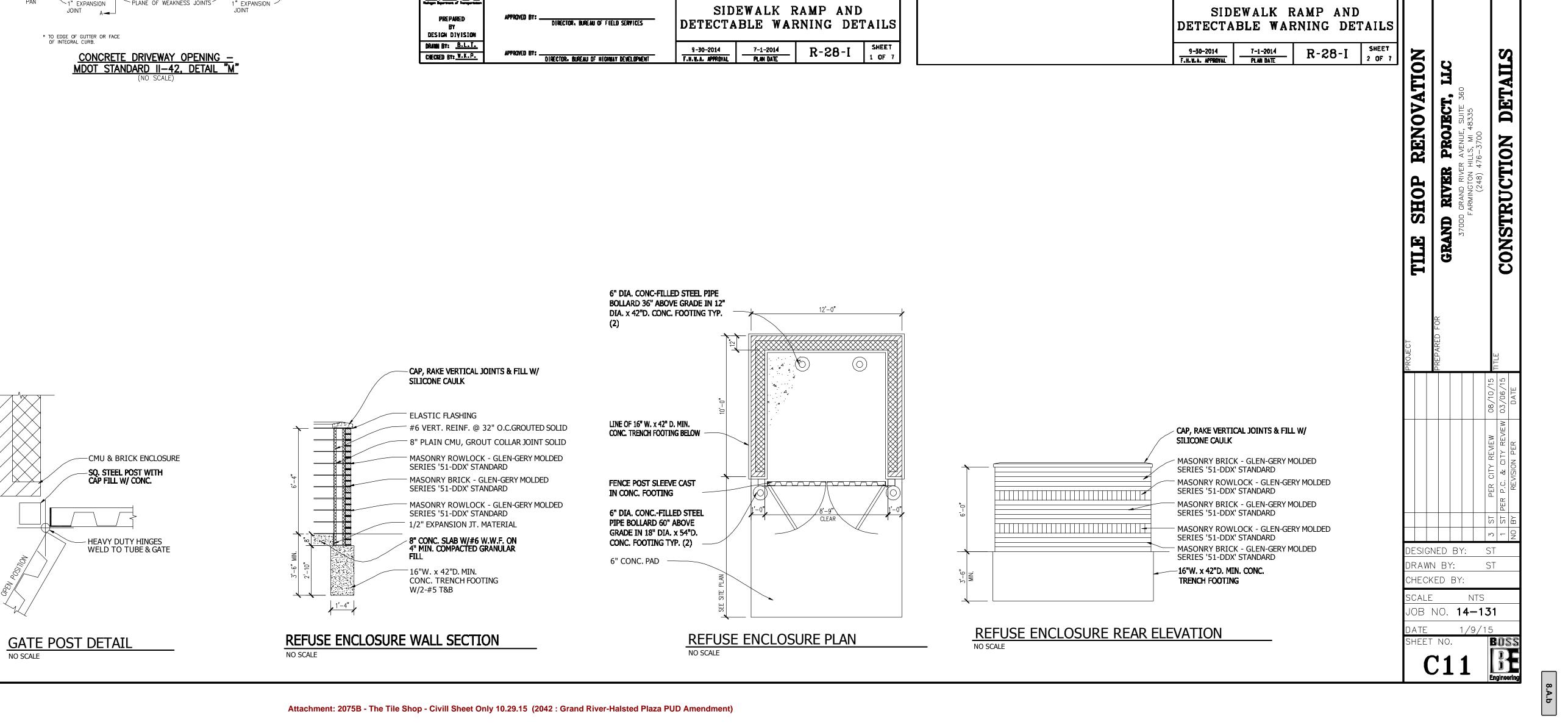


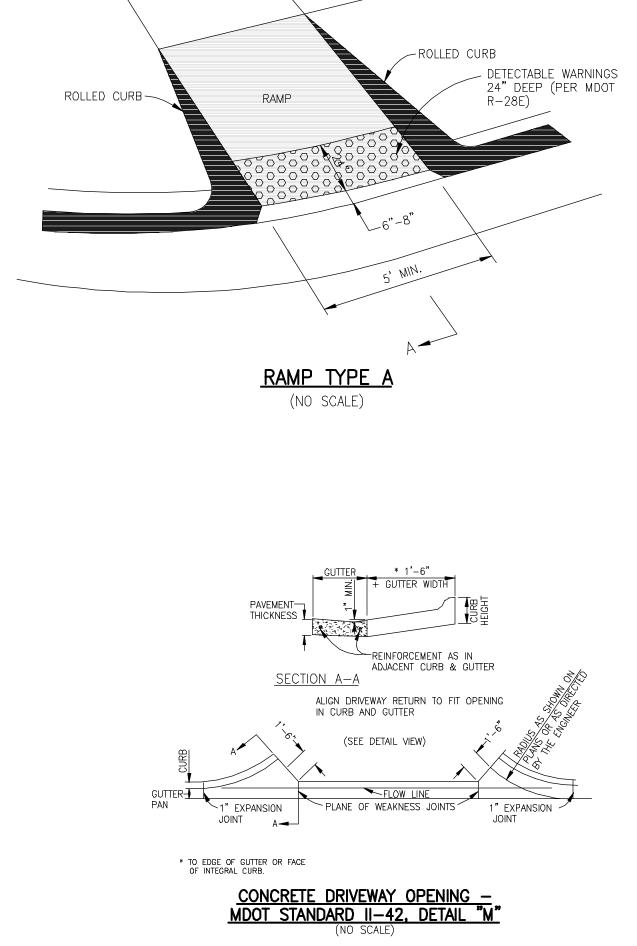






ESIGNED BY: RAWN BY: HECKED BY: NTS OB NO. **14-131**





SIDEWALK

- HEAVY DUTY HINGES 1 PAIR/GATE

PRECAST CONC. CAP

-HASP/HAND LATCH

MORTAR TO MATCH EX. BLDG.

ANCHOR SLEEVES SET IN

CONC. TRENCH FOOTING

CONCRETE (TYPICAL)

16"W. x 42"D. MIN.

W/2-#5 T&B

STEEL TUBE SET 54" DEEP

REFUSE ENCLOSURE FRONT ELEVATION

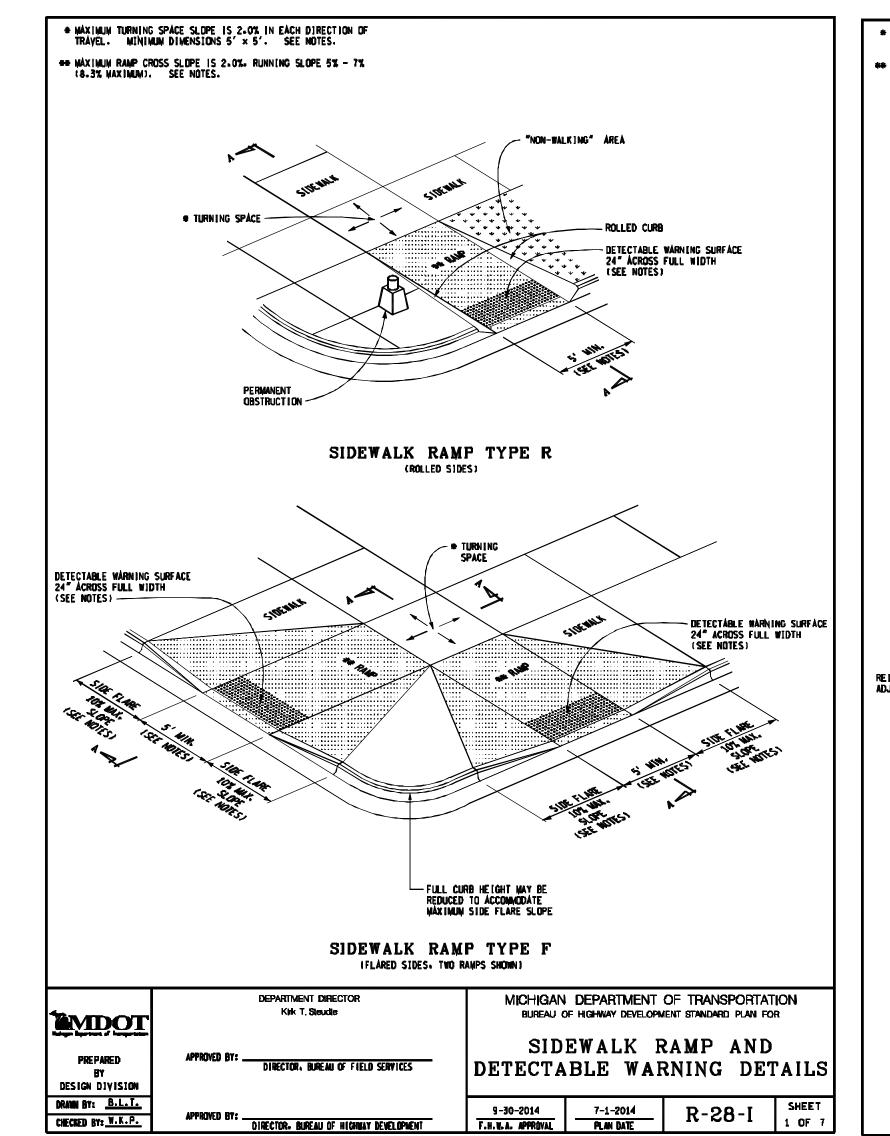
INTO CONC. FTG

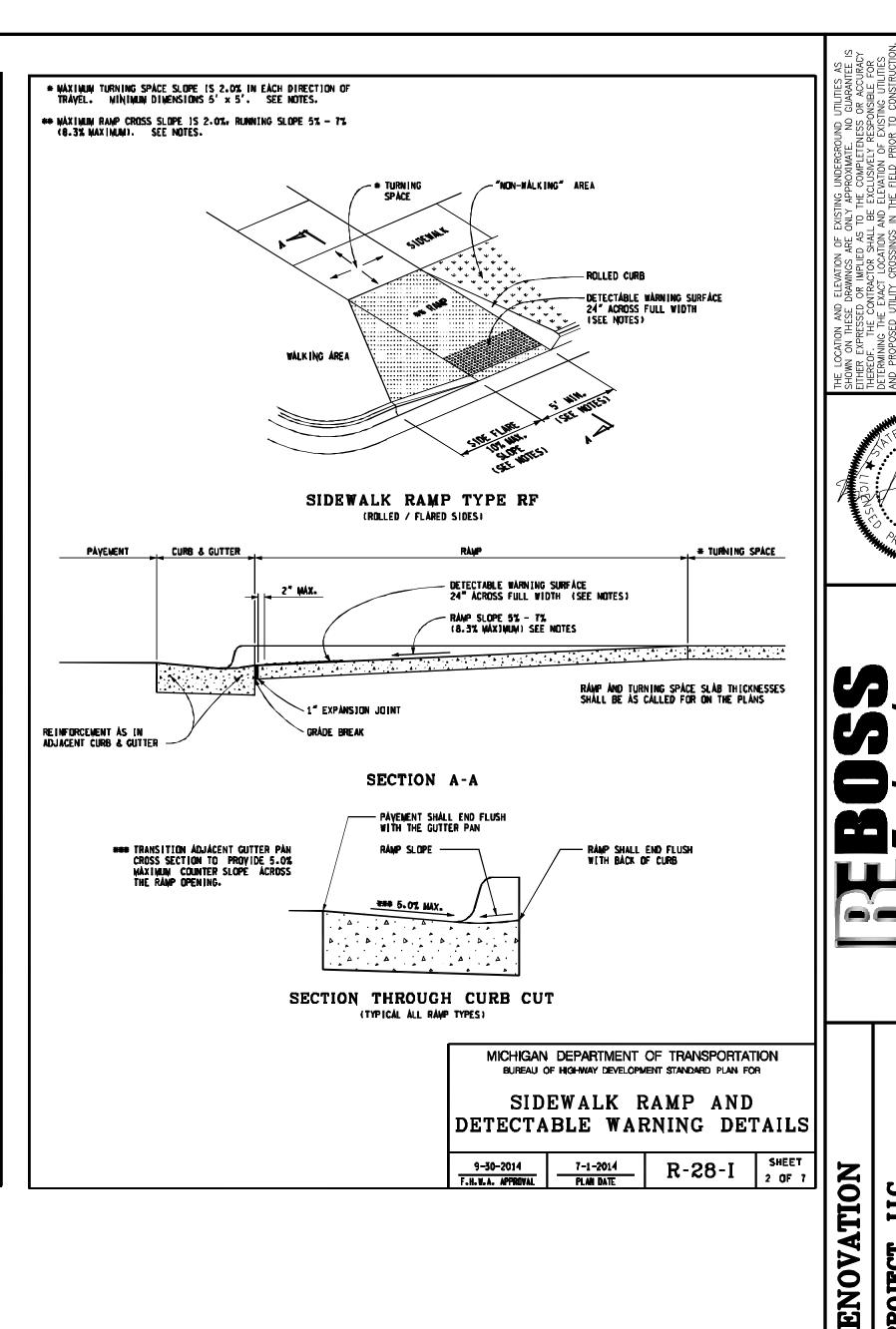
CANE BOLT @

EA. GATE

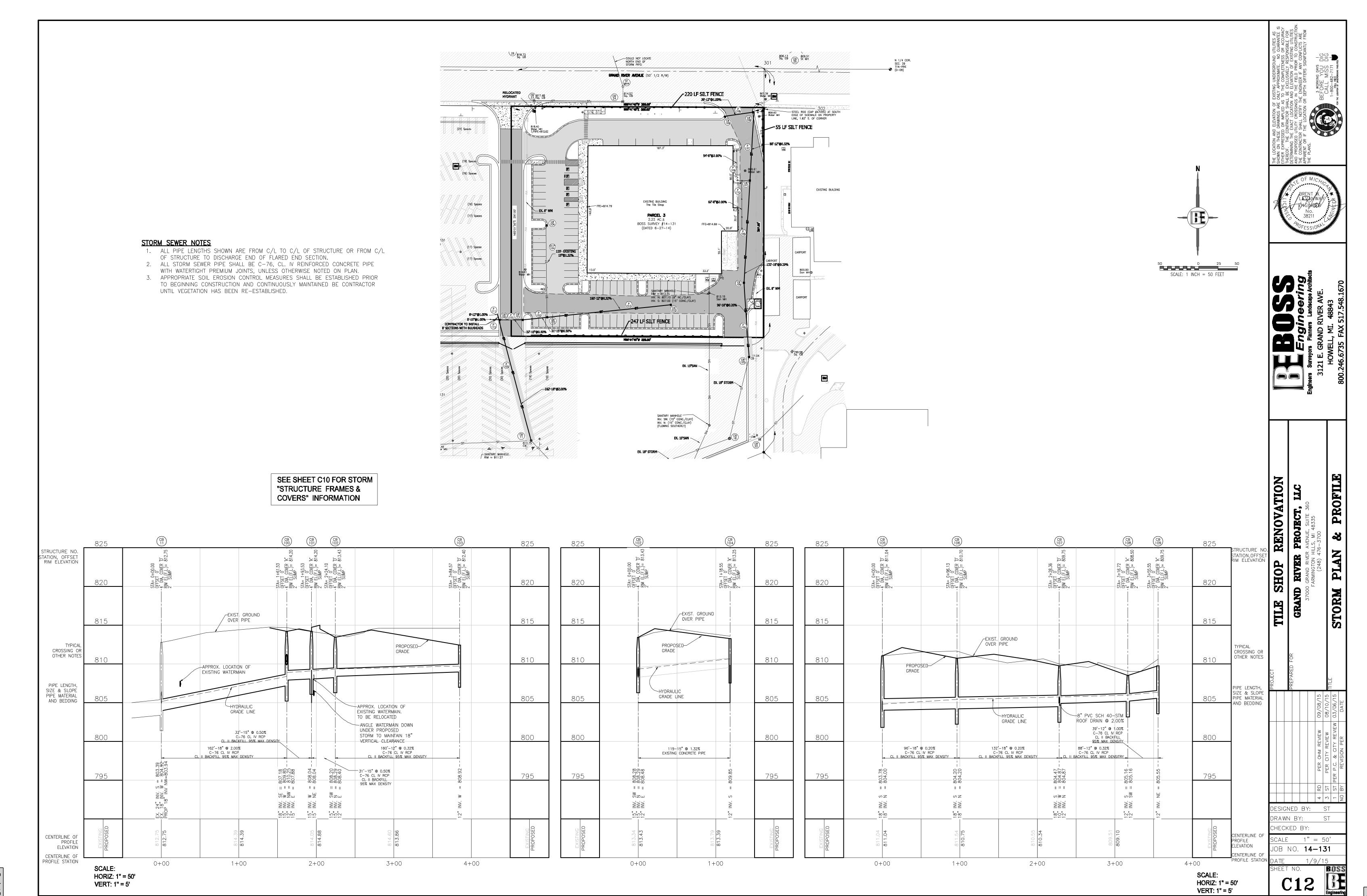
NO SCALE

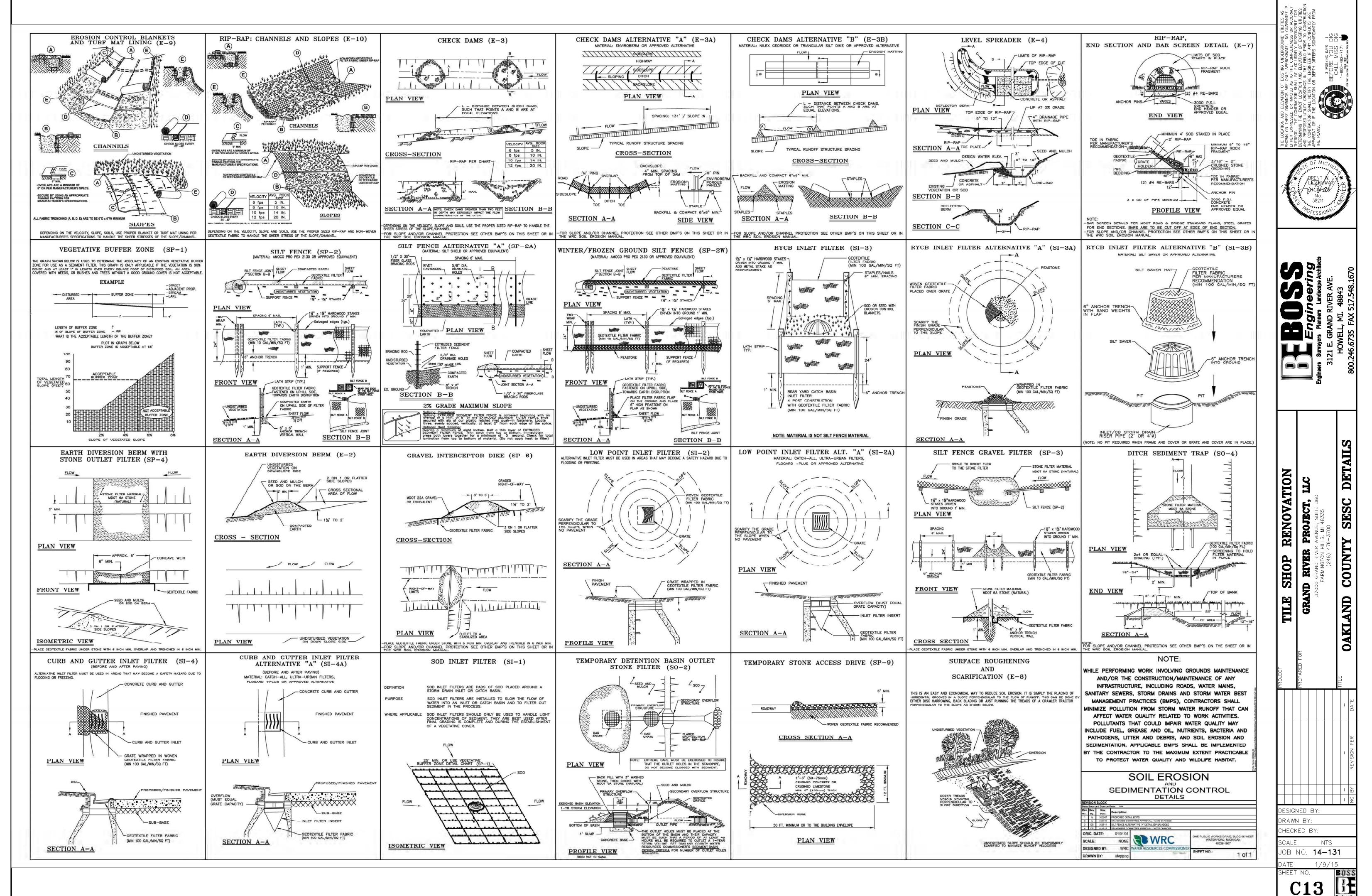
RAMP SIDEWALK HERE, IF NECESSARY TO STAY WITHIN DESIRABLE SLOPE

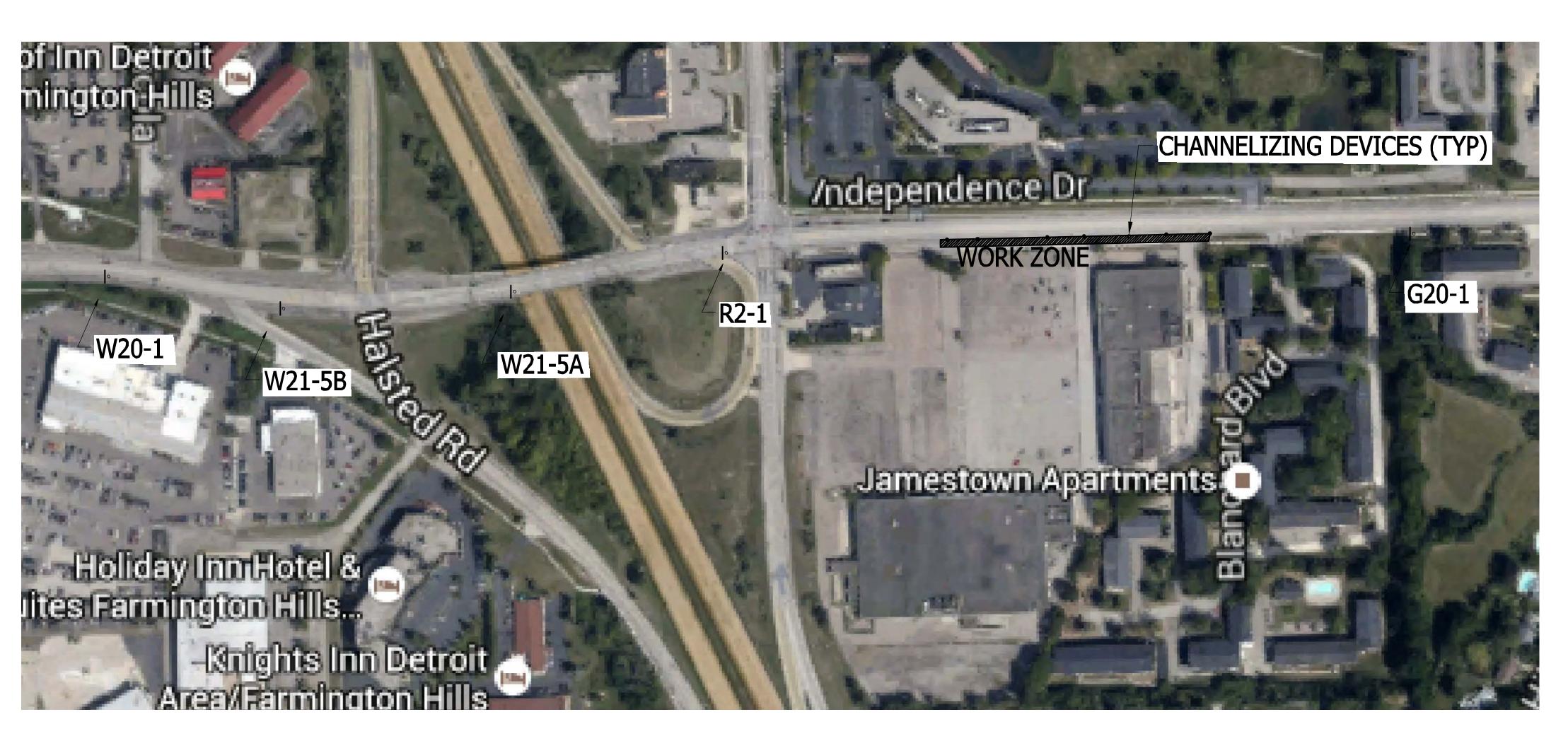








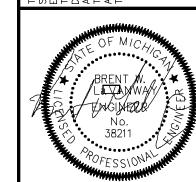


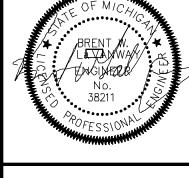


MDOT CONSTRUCTION NOTES:

DURING THE SHOULDER CLOSURES ACCESS FOR EMERGENCY VEHICLES (FIRE, AMBULANCE, POLICE) MUST BE MAINTAINED TO ADJACENT HOMES, BUSINESSES AND SUBDIVISIONS AT ALL TIMES. IN ADDITION, ACCESS TO ALL

ACCESS TO ALL RESIDENTIAL AND COMMERCIAL DRIVES MUST BE MAINTAINED AT ALL TIMES. ALL SIGN MATERIALS AND SUPPORTS MUST MEET NCHRP-350 CRASH WORTHY REQUIREMENTS.







RENOVATION

SHOP

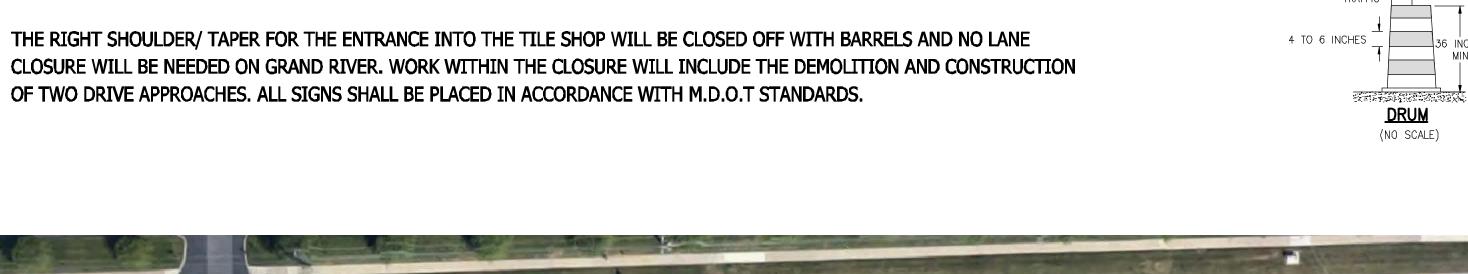
RAWN BY: HECKED BY: CALE NTS

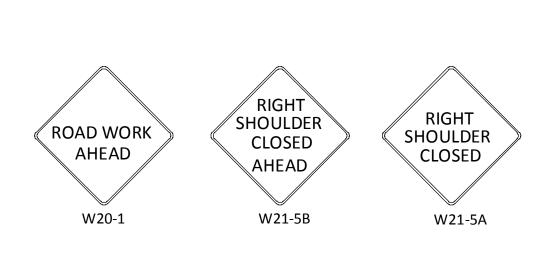
JOB NO. **14-131**

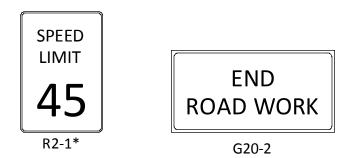
C14

TRAFFIC NARRATIVE:

THE RIGHT SHOULDER/ TAPER FOR THE ENTRANCE INTO THE TILE SHOP WILL BE CLOSED OFF WITH BARRELS AND NO LANE OF TWO DRIVE APPROACHES. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH M.D.O.T STANDARDS.







SIGNS THIS SHEET BY CONTRACTOR							
ITEM	UNIT	QTY					
Sign, Type B, Temp, Prismatic, Furn	SF	88					
Sign, Type B, Temp, Prismatic, Oper	SF	88					

MATERIAL REQUIRED	SFT
1 - W20-1	16
1 - W21-5B	16
1- W21-5A	16
1 - R2-1* (SPEED LIMIT 45)	20
1 - G20-2	20

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015 Reference Number (ID # 2043)

Submitted by: Kevin Christiansen, Economic Community Development Director

Description: Riverwalk of Farmington PUD Amendment

Requested Action:

Approve

Background:

This item is review and consideration to amend the Riverwalk of Farmington PUD in order to modify/reduce the approved front yard setback for Lot 9. The approved final site plan and proposed modified plot plan for Lot 9 are attached for your review and consideration.

Agenda Review

Review:

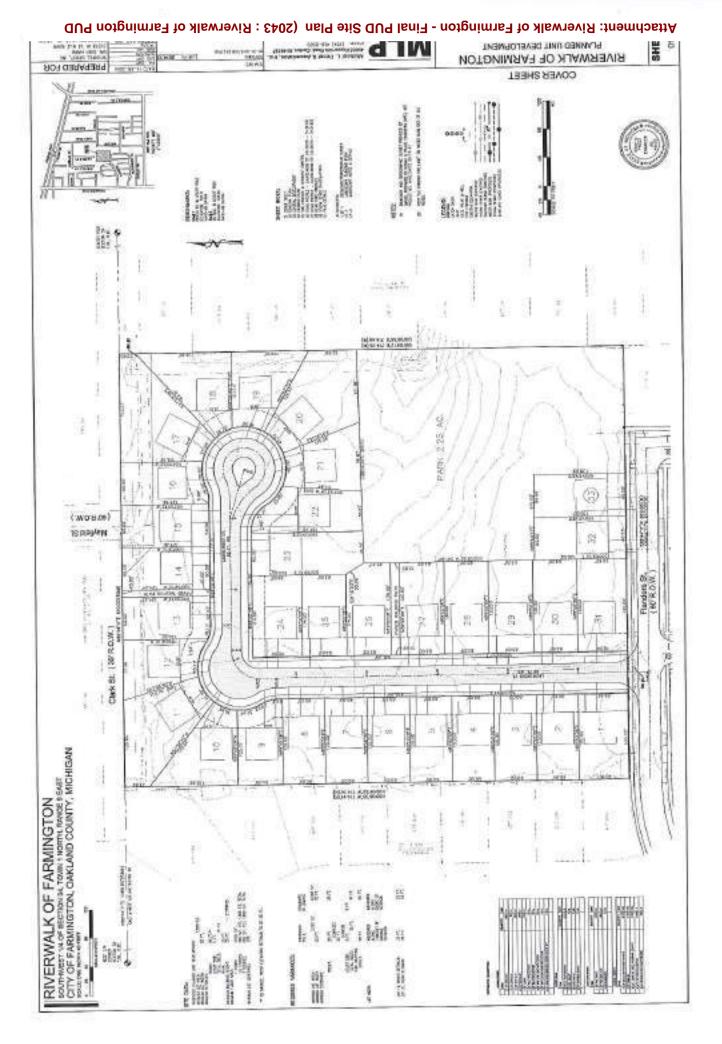
Kevin Christiansen Pending

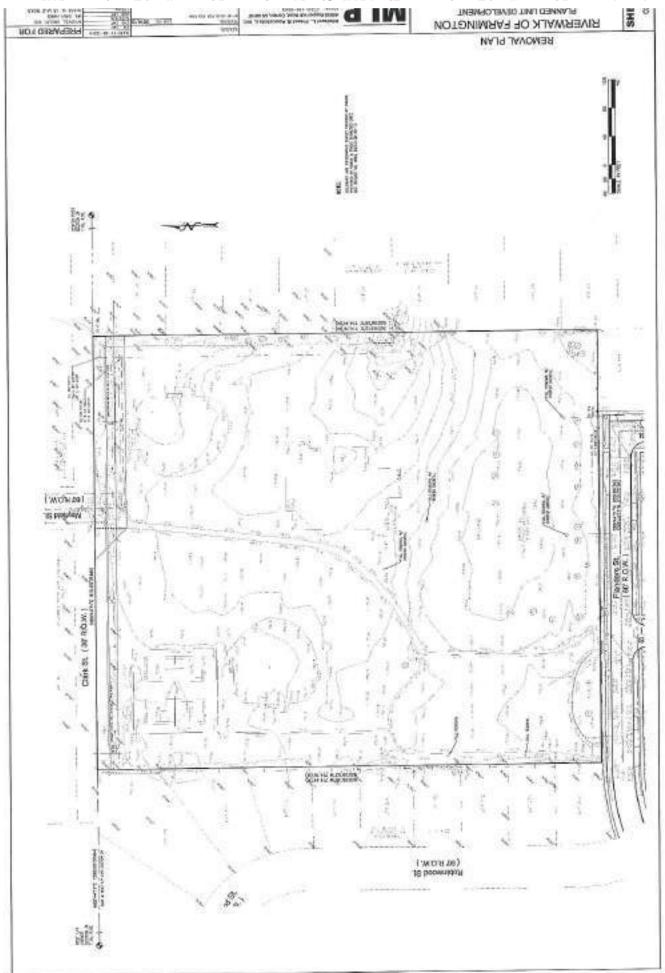
City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/30/2015 11:01 AM by Lisa McGill

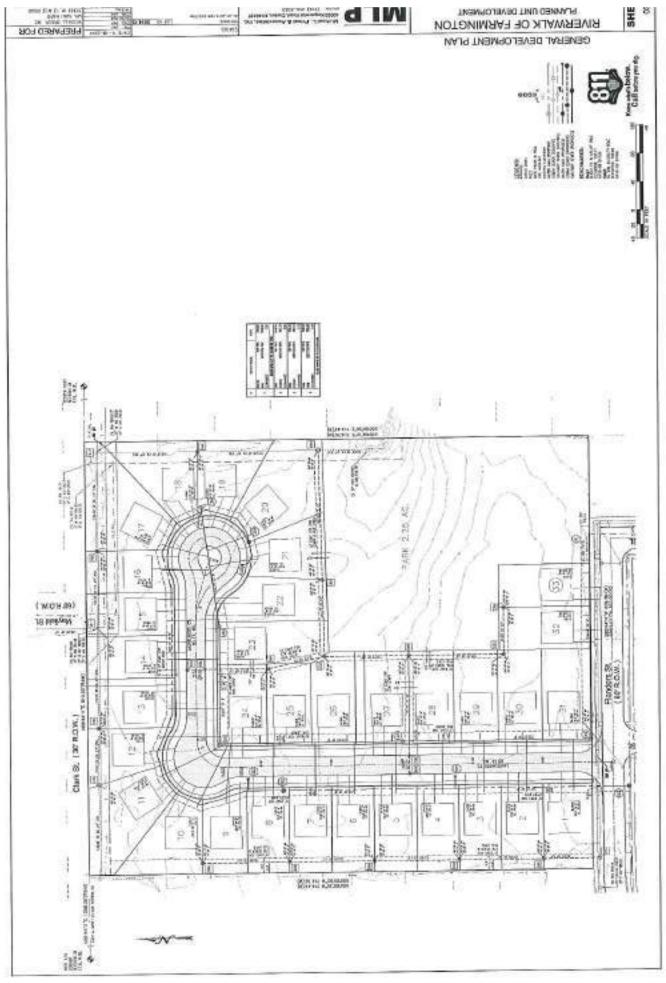
Page 1

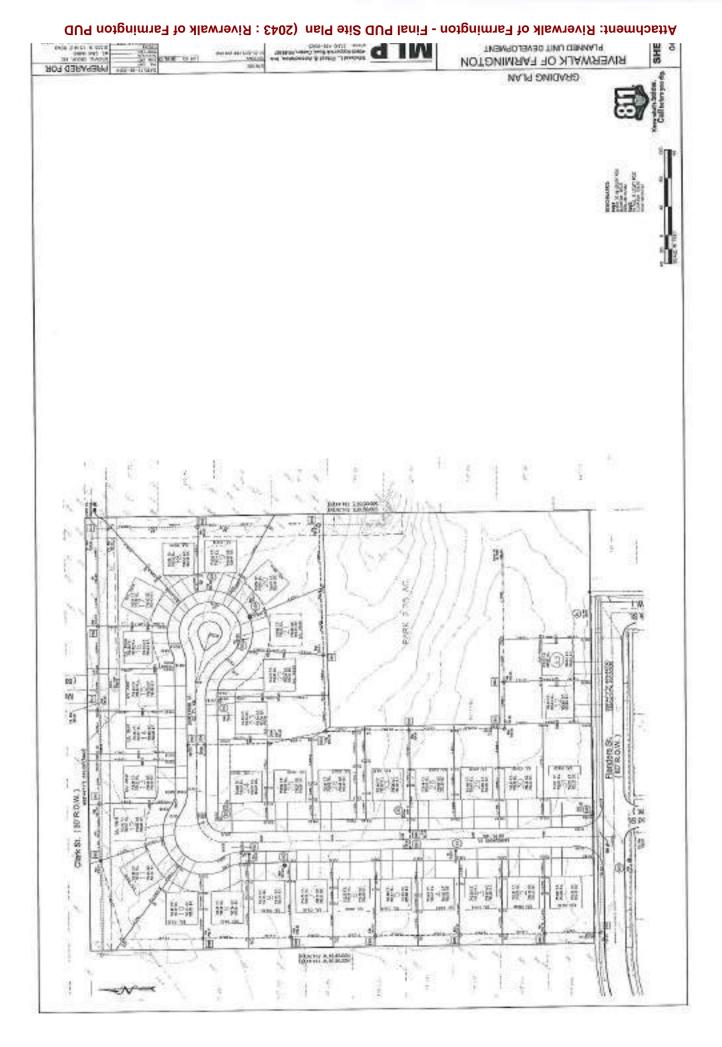


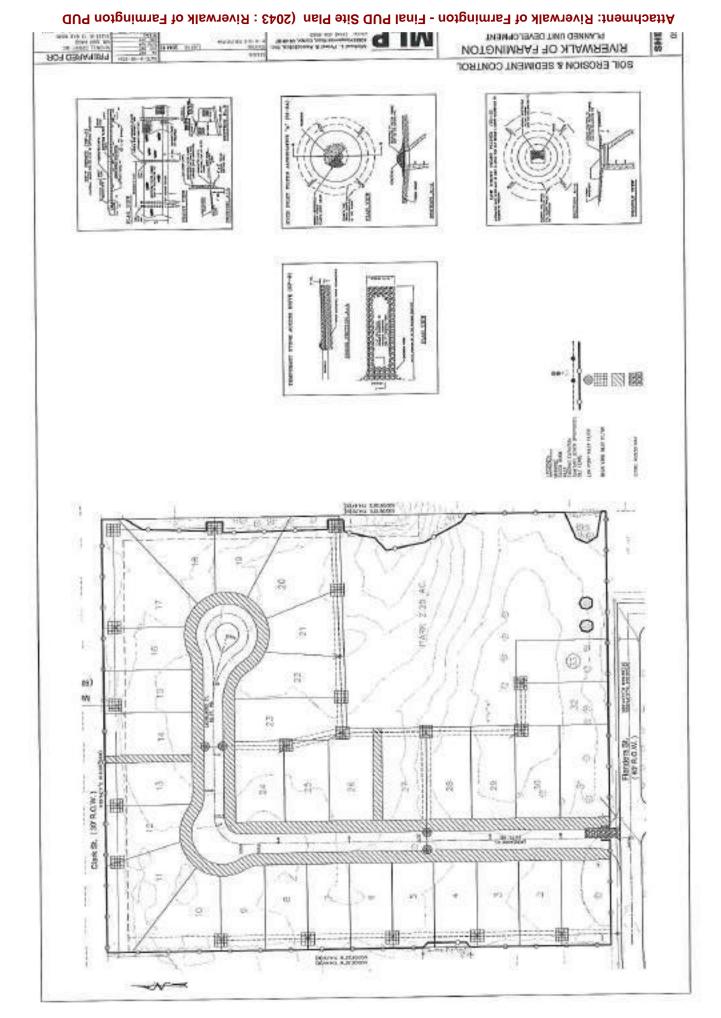


Attachment: Riverwalk of Farmington - Final PUD Site Plan (2043 : Riverwalk of Farmington PUD

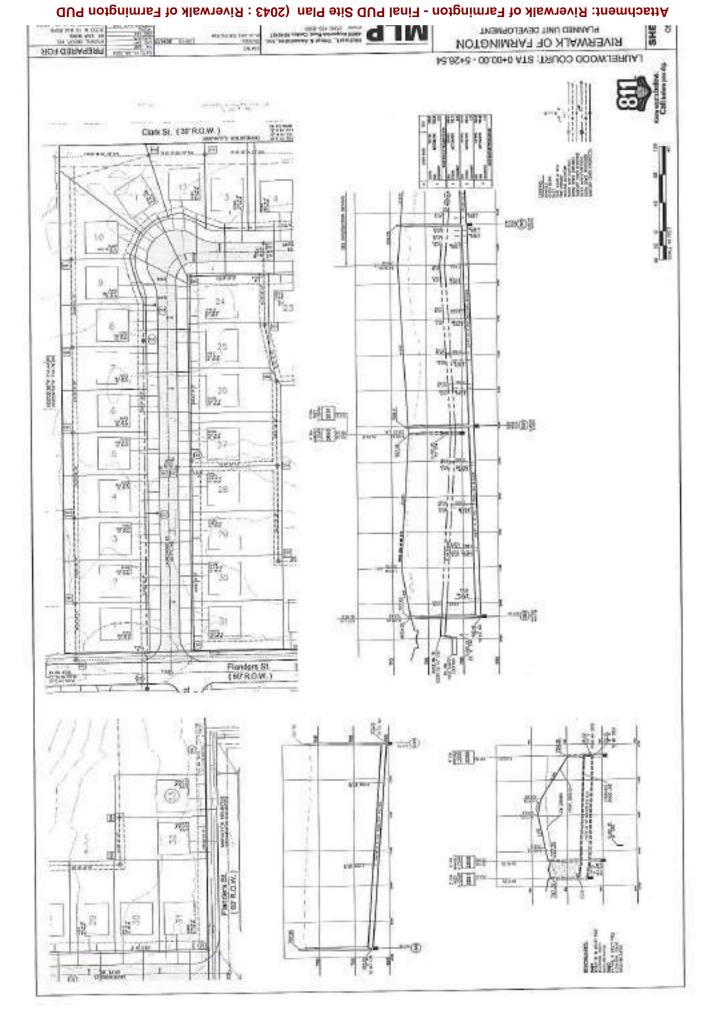
Attachment: Riverwalk of Farmington - Final PUD Site Plan (2043 : Riverwalk of Farmington PUD



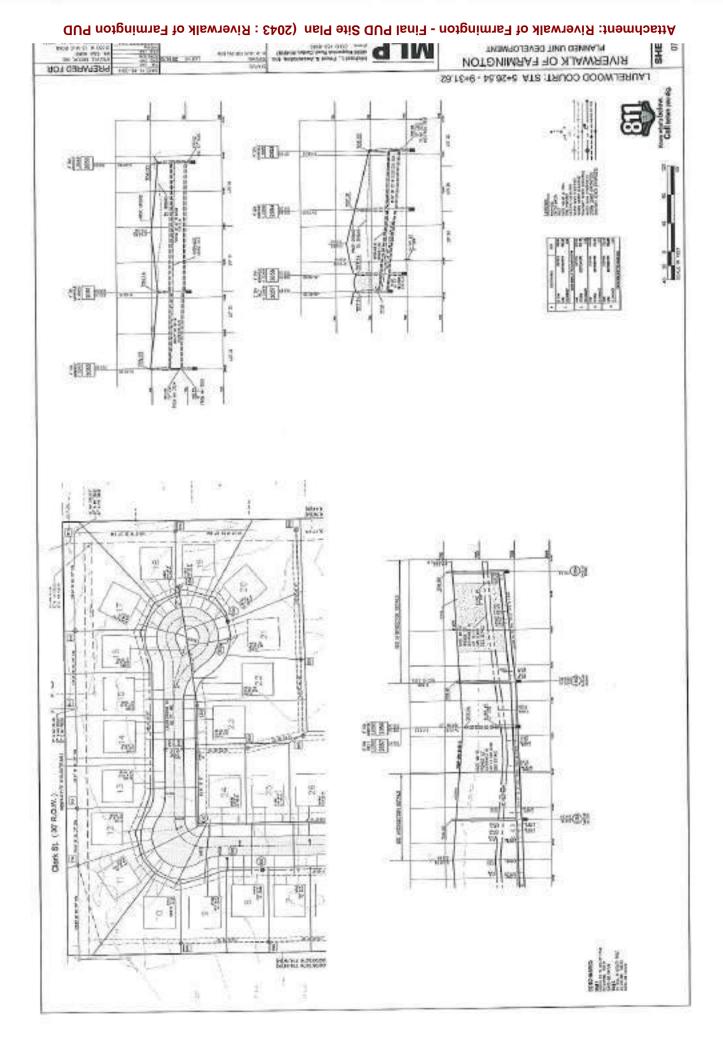




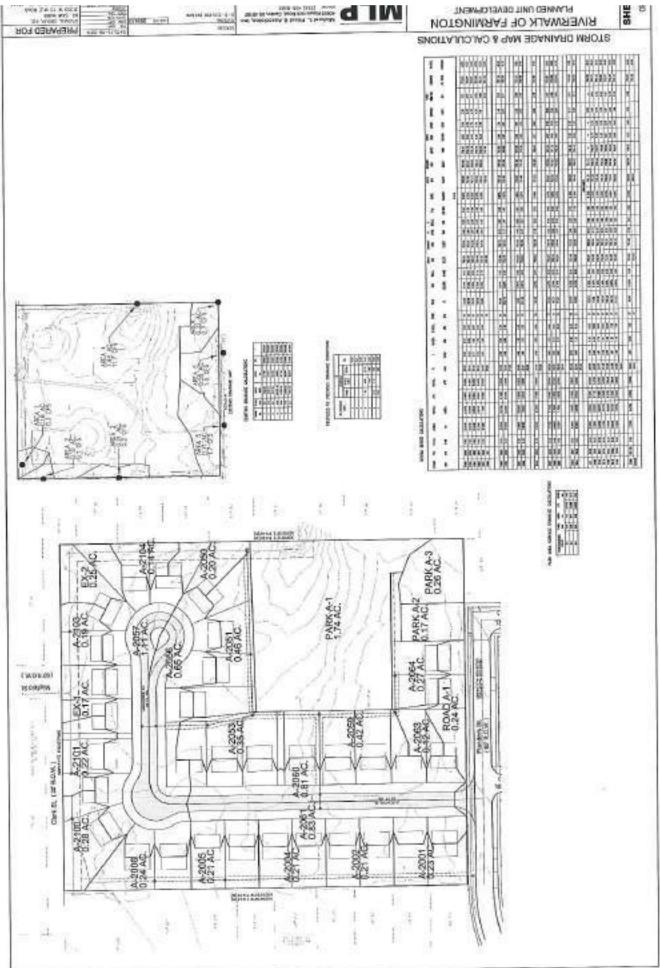
Packet Pg. 130



Packet Pg. 131

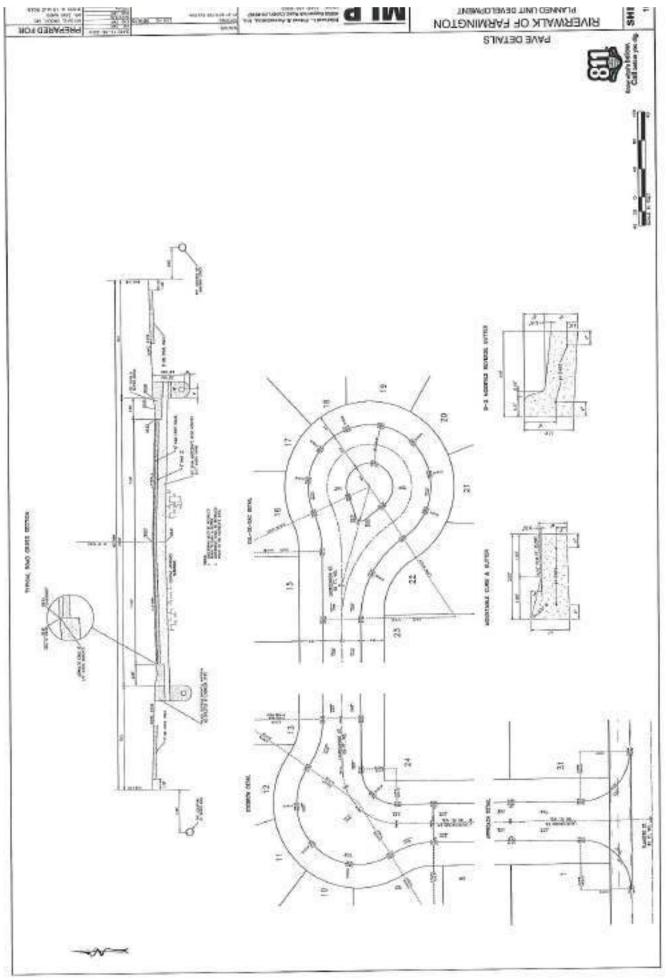


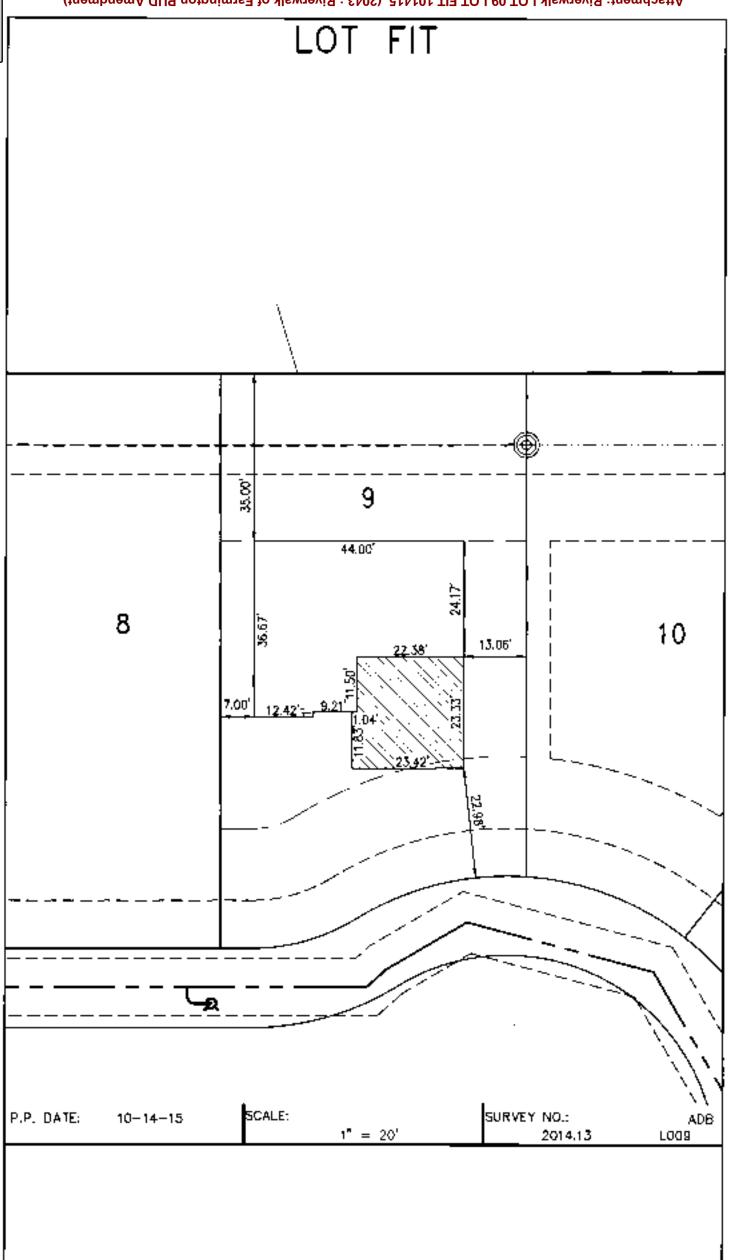
Attachment: Riverwalk of Farmington - Final PUD Site Plan (2043 : Riverwalk of Farmington PUD MILES SERVICE CONTRACTOR CONTRACT PLANNED UNIT DEVELOPMENT RIVERWALK OF FARMINGTON NO4 OTRIVIDISM REAR YARD PROFILES 2 Till m SHE IN-303 1 10 II (E)(2) :超图) **建图**** 篩 T ISS COM H 500 e q 郷田田 SMAR \$ 8 E 50 Hours WS. Skin ANS 15 THE WA Ť m :图门四-SE S :四百 till - use -Fi WA-0.5 ř. 38.... 祖田田 1 湖谷 THE IN 11 80 網 455 1 80 1 5 きる事 Ħ BEE SEE 3 411 湖面中 12 f 11.25



Attachment: Riverwalk of Farmington - Final PUD Site Plan (2043 : Riverwalk of Farmington PUD

Attachment: Riverwalk of Farmington - Final PUD Site Plan (2043 : Riverwalk of Farmington PUD





Attachment: Riverwalk LOT 09 LOT FIT 101415 (2043 : Riverwalk of Farmington PUD Amendment)

8.B.b

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015 Reference Number (ID # 2044)

Submitted by: Kevin Christiansen, Economic Community Development Director

<u>Description:</u> Economic and Community Development Project Status Update

Requested Action:

Background:

Agenda Review

Review:

Kevin Christiansen Pending

City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/29/2015 1:50 PM by Lisa McGill

Page 1

ECONOMIC AND COMMUNITY DEVELOPMENT STATUS MEETING OCTOBER 30, 2015

PROJECT

1. Grand River/Halsted Plaza

a. Tile Shop

i. Construction plans APPROVED

ii. Permits ISSUED FOR THE TILE SHOP BUILDING ONLY

iii. Fees **DETERMINED**

b. PUD Agreement

i. Screening/retaining wall REVISED PLANS RECEIVED 9/14/15

ii. Waiting on OHM review and response **NEW REVIEW**

c. Digital Terrain

i. Construction plans CONDITIONALLY APPROVED; WAITING ON OHM

ii. Permits TO BE DETERMINED
iii. Fees TO BE DETERMINED

2. Shell Gas Station

a. District Court resolution on outstanding tickets DONE/PAID

b. Redevelopment/site plan SLU/SP REVIEW BY PC 9/14/15

c. Construction plansd. FeesIN PROGRESSDETERMINED

3. Chatham Hills Apartments

a. Construction plans
b. Permits
c. Fees
WAITING
WAITING

4. Drakeshire Plaza

a. New tenants/current status of potential businesses NEW BROKER-DAN BLUGERMAN

b. Status of SAD ON-GOING

5. Worldwide Center

a. Status of approved site planb. Code enforcement/site maintenanceCode enforcement/site maintenance

6. Panera Bread

a. Drive thru? **NOTHING TO DATE**

7. White Pine Rehabilitation

a. Revised landscaping INSTALLED

b. Signage WAITING ON PLANS

8. Christian Science Reading Room

a. Property status ON-GOING DISCUSSION

9. Mansell Engineering Building

a. Property status **NEW OWNER; CURRENTLY REHABING SITE AND BUILDING**

10. Flanders/Riverwalk II

a. Model home site plans – Lots 32 and 33
 b. Master Deed and Bylaws/parcel identification numbers
 c. Permit fees

ON-GOING
DONE
DONE

d. Park status? REVIEW WITH STAFF

11. Dunkin Donuts

a. Construction plans APPROVED; ON-GOING

b. Permits ISSUED; RE-BUILD/CONSTRUCTION

c. Fees PAID

12. 9 Mile/Farmington Gas Station

a. Property status **REVIEWED WITH ATTORNEY; SENDING LETTER**

13. 8 Mile Industrial Building Addition

a. Site plan amendment NO PROJECT; PARKING LOT DRAINAGE ISSUE

14. Total Sports

a. Landscaping MET ON SITE 9/10/15; CONTINUING/FINISHING WORK

b. Dumpster enclosure SAME AS ABOVE

15. Orchards Phase II

a. Site plan review PRELIMINARY PUD SITE PLAN APPROVED BY PC 9/14/15 AND

BY CITY COUNCIL 9/21/15; FINAL PUD SITE PLAN APPROVAL BY

PC SCHEDULED 11/9/15

16. Fresh Thyme

a. Construction plans APPROVED; ON-GOING CONSTRUCTION

b. Permitsc. FeesISSUEDPAID

d. Final legal description REVISED; OHM FINALIZING

17. Groves Retail Center

a. Site sign FINAL SIGN PLACARDS; LANDSCAPING; LIGHTING

b. Awnings **NOT DONE!**

c. Rear catch basin
 d. Façade finish on west side
 ADDRESSED; RESOLVED
 NO PLANS SUBMITTED

e. Great Lakes Ace? WAITING FOR FINAL PLANS/DIRECTIONS

18. Maxfield Training Center

a. Site redevelopment WORKING ON RFP WITH FPS; HAVE DRAFT PA

19. Exxon

a. Project completion NO/LIMITED PROGRESS; TICKET ISSUED; FORMAL HEARING

PENDING; ON-GOING CONSTRUCTION

20. Dolphin Center a. Construction plans REVISED SITE PLAN APPROVED BY PC 9/14/15; CONSTRUCTION **IN PROGRESS** b. Permits **ISSUED** c. Fees **PAID** 21. Farmington Plaza a. Status of Complaint WITHDRAWN **ON-GOING ITEMS (SIGNAGE/NEW OCCUPANTS)** b. New businesses 22. Courthouse Property a. New purchase agreement/site plan 2 NEW PAS TO REVIEW/CONSIDER **PLANS** 1. Downtown Area Plan a. Revisions/adoption **COMPLETE; ACCEPTED; NEED FINAL REVISIONS** 2. Ten Mile/Orchard Lake Plan a. Adoption/acceptance PC REVIEWED/ACCEPTED 10/12/15 AND NEEDS CITY COUNCIL **REVIEW/ACCEPTANCE** 3. Parks & Recreation Master Plan a. New RFP LSL PROPOSAL APPROVED; ON-GOING 4. DDA Master Plan a. New RFP **ANNETTE COORDINATING WITH DDA** 5. Grand River Corridor Improvement Authority Plan a. Revisions b. Cover page c. Executive Summary **ON-GOING WITH LSL AND OHM** d. Legal description e. Parcel identification numbers **ORDINANCE TEXT AMENDMENTS** 1. Outdoor Seating **APPROVED BY CITY COUNCIL 9/21/15** 2. Single-Family Residential a. Lot coverage **APPROVED BY CITY COUNCIL 9/21/15** b. Building height c. Setbacks

NOTHING FURTHER TO DATE

3. Muskegon Business Occupancy Ordinance?

- 4. Grand River Overlay District
 - a. Second reading

APPROVED BY CITY COUNCIL 8/24/15

MISCELLANEOUS

1. Revise Fee Schedule

a. Coordinate with other chapters ON-GOING

2. Outstanding Invoices

a. OHM

i. Flanders/Riverwalk IIii. Farmington PlazaCOMPLETECOMPLETE

3. MEDC

a. Redevelopment Ready Certification

i. Capital Improvement Plan ON-GOING

ii. Customer Service Policy DONE FINAL REPORT CITY COUNCIL

iii. Flowchart DONE / REVIEW 10/19/15

4. OHM Engineering Design Standards SUBMITTED; NEED TO REVIEW

5. Complete Streets

a. Status? **NEED TO REVIEW; ON HOLD**

6. Grand River Scoping

a. MDOT coordination FINAL REPORT ISSUED

b. Pilot/test project COMPLETED 9/29/15; ON-GOING IMPLEMENTATION

7. Parking Advisory Committee

a. 30/60/90 day plans **ON-GOING**

8. Parking Lot Conditions OHM REVIEWING; ON-GOING

9. Water and Sewer Tap-In/User Fees COMPLETE; DONE ON CASE-BY-CASE BASIS

Farmington City Council Staff Report

Council Meeting Date: November 2, 2015

Reference Number (ID # 2047)

Submitted by: Kevin Christiansen, Economic Community Development Director

Description: Recreation Master Plan Committee Appointments

Requested Action:

Appoint

Background:

At the September 21st Special Meeting, the City Council agreed to move forward with the Farmington Parks and Recreation Master Plan update. Administration is now in the process of putting together a committee to spearhead this process. Three members of this five-member committee have been appointed: Jeff Scott (City Council), Paul Buyers (Planning Commission), and Agnes (Micki) Skrzycki (DDA). City Administration recommends the remaining two members be residents. Applications of interested persons will be handed out to the Council at the meeting.

Agenda Review

Review:

Kevin Christiansen Pending

City Manager Pending

City Council Pending 11/02/2015 6:00 PM

Updated: 10/29/2015 1:18 PM by Lisa McGill

Page 1