

City of Pleasant Ridge

Oakland County, Michigan



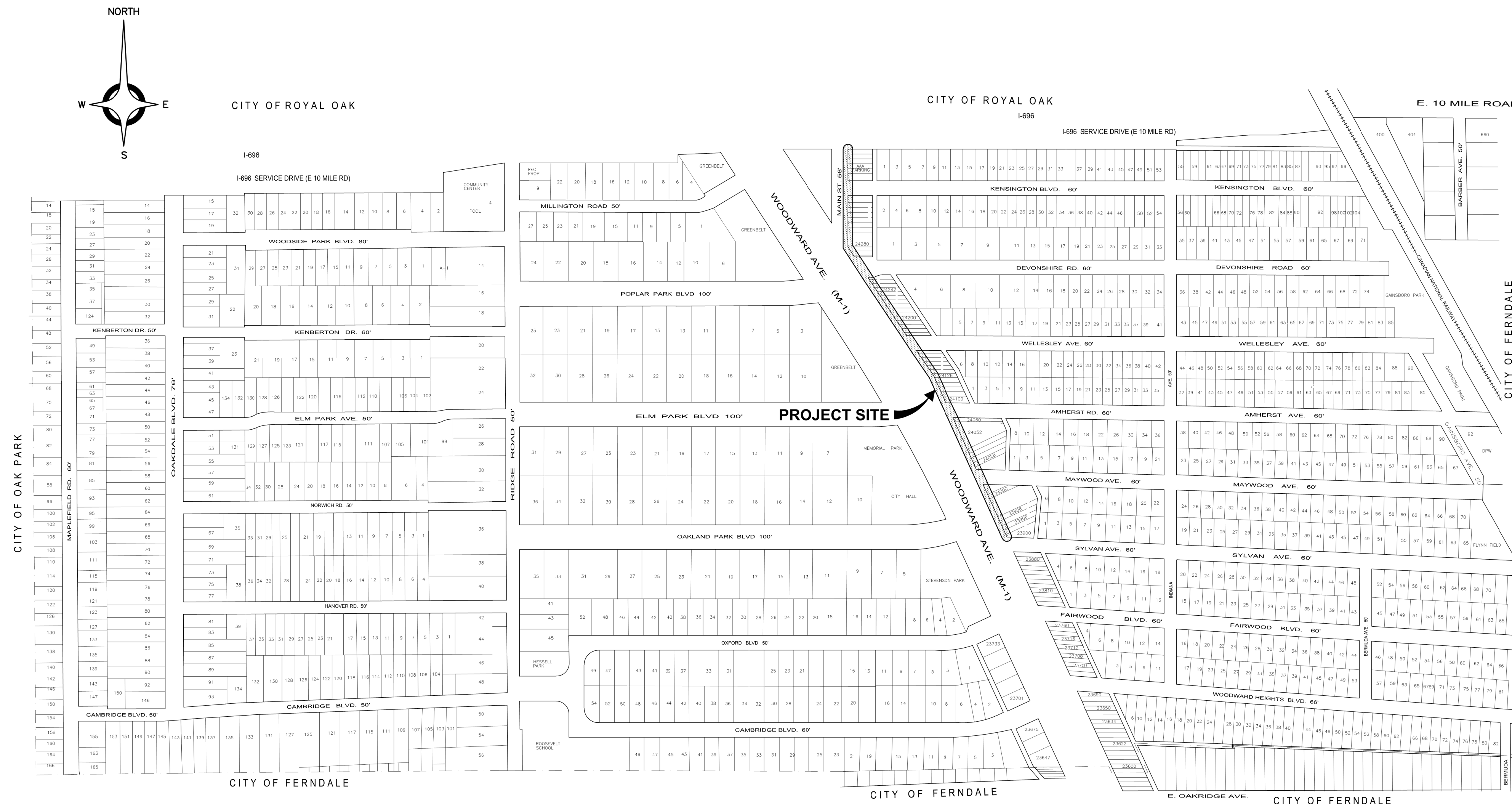
In Cooperation With The Michigan Department Of Transportation and the Federal Highway Administration

Plan And Detail of Proposed

Northbound Woodward Avenue (M-1) Bike Lane Improvements

Sylvan Avenue To E. 10 Mile Road

Control Section 63051
Job No. 210934



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DESIGN & CONSTRUCTION STANDARD
THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2011 NACTO URBAN BIKEWAY DESIGN GUIDE - APRIL EDITION. THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS MODIFIED BY A SPECIAL PROVISION. ALL TRAFFIC CONTROL DEVICES SUCH AS LIGHTED ARROW BOARDS, PLASTIC DRUMS, BARRICADES, TEMPORARY SIGNAGE, AND LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE SUPPLEMENTARY MAINTAINING TRAFFIC SPECIAL PROVISION.

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF 0.53 MILES OF REMOVAL OF BITUMINOUS AUXILIARY LANE REMOVAL, CONCRETE CURB AND GUTTER REMOVE AND REPLACE, STORM DRAINAGE IMPROVEMENTS SIDEWALK AND SIDEWALK RAMP RECONSTRUCTION, 2-WAY - 1-LANE CONCRETE BICYCLE LANE ADDITION, PERMANENT PAVEMENT MARKINGS AND MISCELLANEOUS RELATED ITEMS OF WORK.

LOCAL AUTHORITY APPROVAL
CITY OF PLEASANT RIDGE

James Breuckman
JAMES BREUCKMAN,
CITY MANAGER

10/14/22
DATE



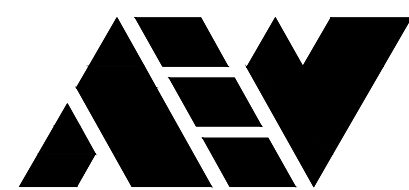
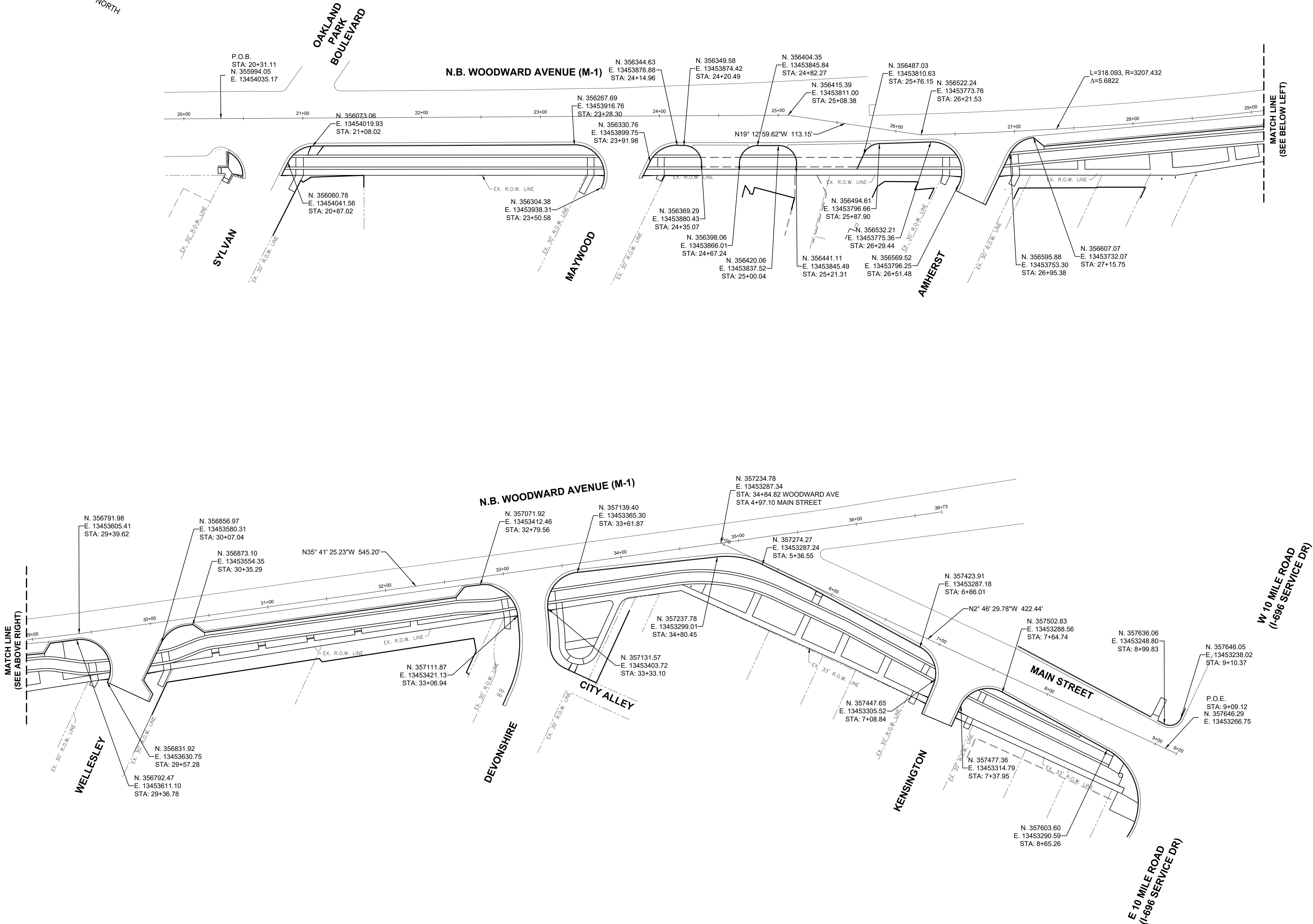
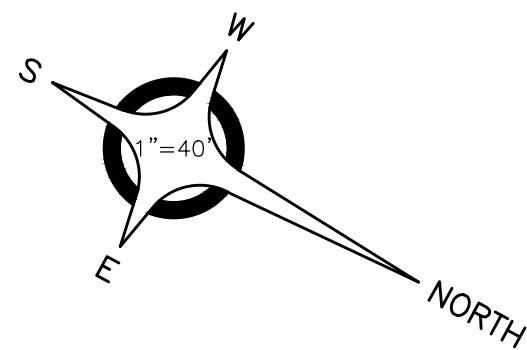
"I HEREBY CERTIFY THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PUBLIC ACTS OF 1937 AS AMENDED- STATE OF MICHIGAN."

Michael D. Smith
MICHAEL D. SMITH, P.E. No. 6201056768

10/14/22
DATE

TRAFFIC DATA

WOODWARD AVENUE (M-1)		
WOODWARD HEIGHTS BLVD. TO E. 10 MILE RD. (63-8157)		
	(2019)	(2039)
A.D.T.	60,791	61,210
POSTED SPEED	45 MPH	45 MPH
DESIGN SPEED	45 MPH	45 MPH



ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

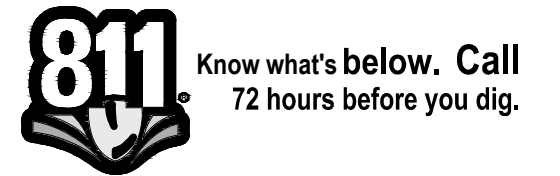
SHEET TITLE:

ALIGNMENT PLAN

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 40'		



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PROJECT NO.

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SHEET NO.

GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with Public Act 174 of 2013, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

ROW / REAL ESTATE

TEMPORARY EASEMENTS

Some work is designated on private property. The city has secured all required easements to complete the work as shown on the plans.

LAWN SPRINKLER SYSTEMS AND LANDSCAPING

Owners of existing lawn sprinkler systems and/or landscaping shall be notified (in writing with a copy sent to the Engineer) by the Contractor two weeks in advance of any work to be done that will affect those systems and/or landscaping. If the property owner fails to relocate the lawn sprinkler system prior to the Contractor beginning work, and if the Contractor cuts the system during the construction, the Contractor shall cap the system pipe and witness the location of the cap with a wooden stake for the property owner's use. The Contractor shall place the salvaged sprinkler heads on the property owner's property. If the property owner fails to relocate the landscaping prior to the Contractor beginning work, the Contractor shall carefully salvage the landscaping items and stockpile them on the property owner's property for the property owner. Any other modification to the lawn sprinkler systems and/or landscaping is the responsibility of the owner and is not part of this contract. This work is included in other items of the project.

SURVEY

ADJUSTING MONUMENT BOXES

All government corners on this project shall be preserved, whether shown or not. It may be necessary to place or adjust monument boxes, as required.

OLD PLANS

OLD ROAD PLANS

The following old road plans were referred to in the design of this project.

2013 M-1 Sidewalk Ramps MDOT JN# 116703A
2003 M-1, City of Pleasant Ridge, Fernadale & Detroit MDOJ JN # 45719A
1994 I-696, City of Oak Park, Huntington Woods, Pleasant Ridge, Royal Oak MDOT JN# 198054
1991 M-1, City of Pleasant Ridge, Ferndale. MDOT JN# 29943A / 31656A / 32279A

In addition, other old road plans that predate this project may be available. These plans may be reviewed upon request to the project engineer, Michael D. Smith at nsmith@aewinc.com.

DETAILED GRADES

GRADES FOR INTERSECTIONS

All intersections are to be considered as complete units and their grades determined before construction is started.

SIDEWALK AND CURB RAMP GRADES

All sidewalk and curb ramp grades shall be staked according to Standard Plan R-28 series and as shown on the plans. Prior to constructing the sidewalk and curb ramps, the Engineer will verify the grades and authorize the construction of the sidewalk and curb ramps.

EARTHWORK

SLOPES

Class A slopes shall be constructed on this project.

EARTH DISTURBANCE LIMITS

The earth disturbance limit for this project will be limited to 10' beyond the slope stake line or to the ROW line whichever is less for all areas except for wetland areas. Restoration measures have been included in this set of plans for the approved areas of disturbance. The Contractor shall submit an earth change plan for any work beyond the approved limits to the Engineer to review for approval prior to the disturbance. All costs for obtaining and executing an approved earth change plan, including restoration, shall be at the Contractor's expense.

SOIL EROSION MEASURES

Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. Place turf establishment items as soon as possible on potential erodable slopes as directed by the Engineer. Critical ditch grades shall be protected with either sod or seed/mulch or mulch blanket as directed by the Engineer.

BASES

SIDEWALK CONCRETE BACKFILL

Backfill shall be granular material class II or unless otherwise specified.

DRAINAGE

ILLCIT CONNECTIONS TO STORM WATER SYSTEM

Connections to existing storm conveyance systems not shown on the plans must be reconnected with minimal interruption in service. Size, type and location by station and offset and any suspect illicit discharge observed shall be reported to the Engineer prior to reconnecting. Contractor shall proceed as directed by the Engineer.

TEMPORARY BULKHEADS

Temporary bulkheads may be required for the part width construction of the culverts and sewers. All cost associated with the temporary bulkheads are included in the item of the pipe.

PAVEMENT

PAVEMENT AND HMA SURFACE REMOVAL QUANTITIES

Pavement and HMA Surface removal as shown on the plans will be at the discretion of the Engineer. If in his/her judgment, areas of pavement may be left in place, or additional areas added to provide the proper cross-section and base. Changes will be made in the quantities.

SOIL BORINGS AND/OR PAVEMENT CORES

The soil boring logs and/or pavement cores represent point information. No inference should be made that subsurface or pavement conditions are the same at other locations.

CONCRETE HAND FINISHING

Hand finishing of concrete pours to be struck off and consolidated by hand methods will be permitted on variable width lanes and lanes formed by flexible forms for short radius curves, as directed by the Engineer.

CONCRETE

The type of concrete to be used on this project for the pavement repairs is Grade 3500.

RESTORATION
SOD

Prepare surface, provide and place sod in accordance with the R-100 series and specifications section 816.03.

LANDSCAPING

Existing vegetation shall not be damaged during construction operations, per the 2020 Standard Specifications for Construction.

All equipment to be used must be approved by the engineer prior to beginning work.

Storage of equipment and materials will be restricted to areas designated by the Engineer.

Branches of all trees to be saved shall not be removed, or damaged by construction equipment. If removal of lower branches is necessary, contact Engineer.

Do not trench within the drip line of existing trees to remain unless specifically approved by the Engineer.

Contractor shall promptly restore any property damage at no expense to the Owner.

All raw fill or cut slopes will be covered with slope restoration according to the special provision and time limitations specified in section 816.03 of the 2020 Standard Specifications for Construction.

All excavated material will become the property of the contractor. Any excavated material not used on the project will be removed from the site and disposed of in accordance with section 205.03.P. of the 2020 Standard Specification for Construction and any applicable state and/or local ordinances.

No cereal rye seeding shall be used on this project.

Protect existing sidewalks from damage.

SIGNS

GENERAL

All signs shall be installed, removed and/or salvaged according to the current edition of "Michigan Manual on Uniform Traffic Control Devices" and the current edition of Michigan Department of Transportation (MDOT) "Standard Specifications for Construction."

All signs on the plans or in the log that do not have a recommendation are to be retained.

EXISTING SIGN RELOCATION

Any permanent signs requiring relocation due to Contractor operations shall be salvaged and reset by the Contractor at locations designated by the Engineer. Signs and posts damaged during the removal and storage operations shall be replaced with new signs and posts. The cost of this work shall be borne by the Contractor.

Sign Layout

Sign layouts shall be according to the current English edition of "Standard Highway Signs" manual or as detailed in plans. Legend length shall be determined using the "SignCAD" software.

SHEETING

Handling and installation of all signs shall conform to the sheeting manufacturer's specifications and guidelines.

Splice sheeting used for Type I signs with a 3" overlap.

Signs that have wrinkled or twisted sheeting may be rejected.

Sign Installation

When attaching signs to supports, tighten the nut, not the bolt head.

Nylon washers shall be placed between the steel washer and the sign face sheeting. The nylon washers are to be considered part of the attaching devices and hardware. Nylon washers shall have a 3/8 inch inner diameter, a 7/8 inch outer diameter and a 1/16 inch thickness.

The Contractor shall attach a date sticker to the back of all signs installed on the contract. Stickers will be supplied to the Contractor at the preconstruction meeting by the Engineer. Stickers will be supplied by DPW.

UTILITIES

THE EXISTING UTILITIES LISTED BELOW AND LOCATIONS OF UTILITIES AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME THESE PLANS WERE PREPARED. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SATISFY HIMSELF AS TO THEIR ACCURACY OR OF HIS RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES WITHIN THE C.I.A. IN CASE UTILITIES HAVE BEEN CONSTRUCTED OR REMOVED SINCE THE TOPOGRAPHIC SURVEY WAS PREPARED.

NAME OF OWNER

DETROIT EDISON CO.
ROBERT JONES
ROYAL OAK SERVICE CENTER
3425 STARR ROAD
ROYAL OAK, MICHIGAN 48073
(248) 594-7132

A.T.&T.

MATT SLIWA
54 NORTH MILL STREET
PONTIAC, MICHIGAN 48342
(248) 877-0762

CONSUMERS ENERGY
JOHN B. HILL
4600 COOLIDGE HWY.
ROYAL OAK, MICHIGAN 48073
(248) 433-5618

COMCAST CABLE
PATRICK RINEHART
25626 TELEGRAPH ROAD
SOUTHFIELD, MICHIGAN 48033
(248) 809-2710

CITY OF PLEASANT RIDGE
DEPARTMENT OF PUBLIC WORKS
TIM SCHULTZ, COORDINATOR
23925 WOODWARD AVENUE
PLEASANT RIDGE, MICHIGAN 48069
(248) 541-2901

ROAD COMMISSION FOR OAKLAND COUNTY
31001 LAHSER ROAD
BEVERLY HILLS, MICHIGAN 48025
(248) 858-4804

WIDE OPEN WEST
JOHN HAJEC
37150 PLYMOUTH RD.,
LIVONIA, MICHIGAN 48150
(734) 237-4319

OAKLAND COUNTY WATER RESOURCES
COMMISSION
ONE PUB WORKS BUILDING #95W
WATERFORD, MI 48328
(248) 858-0958

ITC
ERIN KEELER
27175 ENERGY WAY
NOVI, MICHIGAN 48377
(248) 946-3298

MDOT - OAKLAND TSC
THOMAS POZOLO, PE
OPERATIONS ENGINEER
MDOT OAKLAND TSC
(248) 451-2462

UTILITY

POWER & ELECTRIC

TELEPHONE & OTHER
COMMUNICATION
SYSTEMS

GAS MAINS
& SERVICES

CABLE TV

STORM SEWER,
SANITARY SEWER
& WATER

TRAFFIC SIGNALS

CABLE T.V.

COUNTY DRAINS

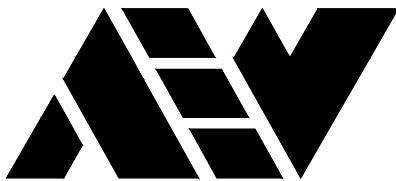
ELECTRIC

M-1

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

Title	Plan No.
ROAD	
DRAINAGE STRUCTURES	R-1-G
MONUMENT BOXES	R-11-E
CURB RAMP AND DETECTABLE WARNING DETAILS	R-28-J
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	R-29-I
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
INTEGRAL CURB AND INTEGRAL CURB & GUTTER	R-31-F
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)	R-39-K
LONGITUDINAL PAVEMENT JOINTS	R-41-H
CONCRETE PAVEMENT REPAIR	R-44-F
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-F*
UTILITY TRENCHES	R-83-C
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-I*
PAVEMENT MARKINGS	
PAVEMENT ARROW AND MESSAGE DETAILS	PAVE-900-G
LONGITUDINAL LINE TYPES AND PLACEMENT	PAVE-905-E
PAVEMENT MARKINGS FOR NON-SIGNALIZED INTERSECTIONS	PAVE-930-D
LEFT TURN LANE MARKINGS	PAVE-935-E
RIGHT TURN LANE AND ISLAND PAVEMENT MARKINGS	PAVE-940-D
INTERSECTION, STOP BAR AND CROSSWALK MARKINGS	PAVE-945-D
ON-STREET PARKING ZONE MARKINGS	PAVE-955-C
BIKE LANE AND PATH PAVEMENT MARKINGS	PAVE-962-B
WORK ZONE DEVICES	
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *
* Denotes Special Detail	



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51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

SHEET TITLE:

NOTE SHEET

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: NONE		



Know what's below. Call
72 hours before you dig.

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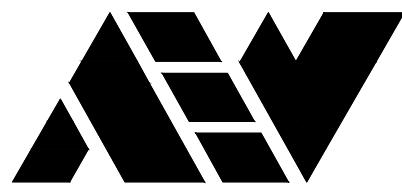
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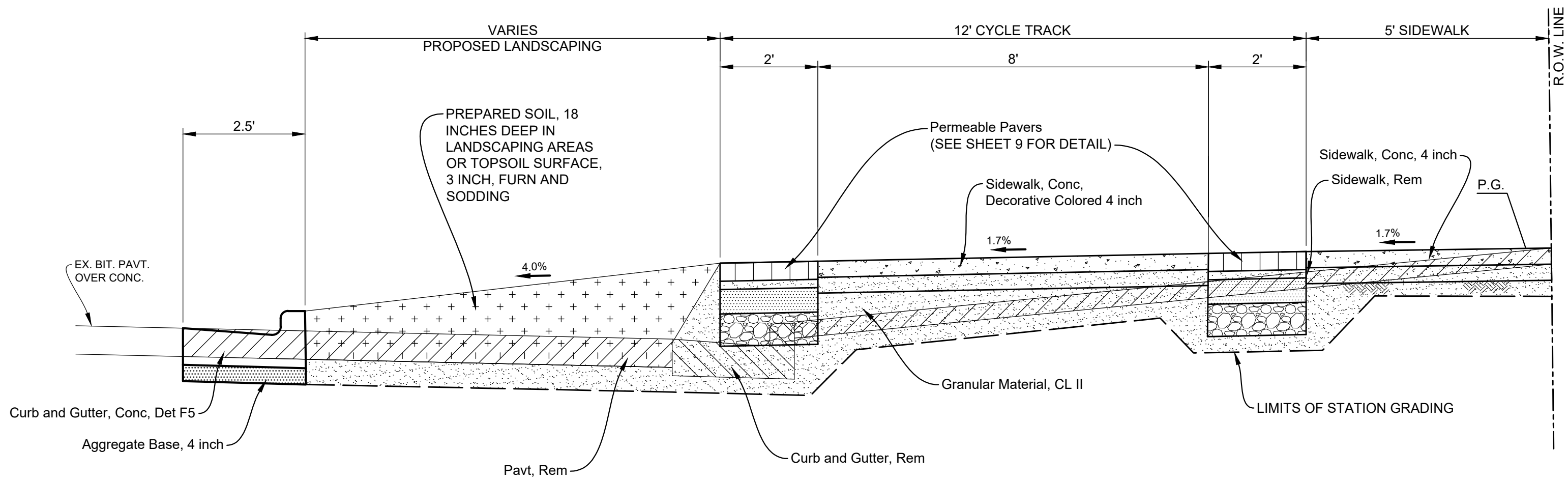
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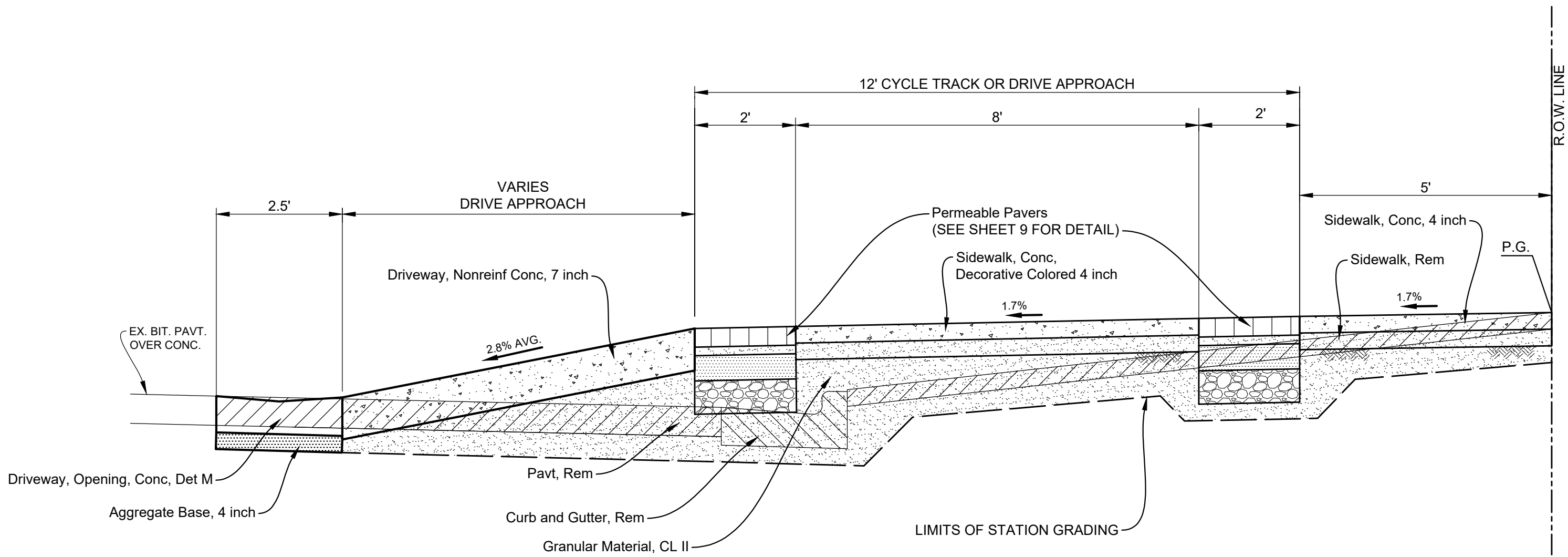
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CONSTRUCTION CROSS SECTION
STA 21+33 TO STA 23+33 WOODWARD AVE. (M-1)
SCALE:1"=2'

NOTE:
IT IS ANTICIPATED THAT THE CONTRACT PAY
ITEM 'STATION GRADING' WILL BE USED FOR ALL
EARTHWORK AS-NEEDED INCLUDING
EXCAVATION AND FILL FROM FINISHED GRADE
UP TO 30 INCHES BELOW FINISHED GRADE.



CONSTRUCTION CROSS SECTION
STA 24+34 TO STA 25+94 WOODWARD AVE. (M-1)
SCALE:1"=2'

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

TYPICAL CROSS SECTIONS

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
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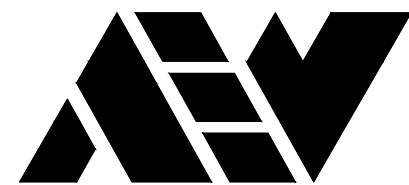
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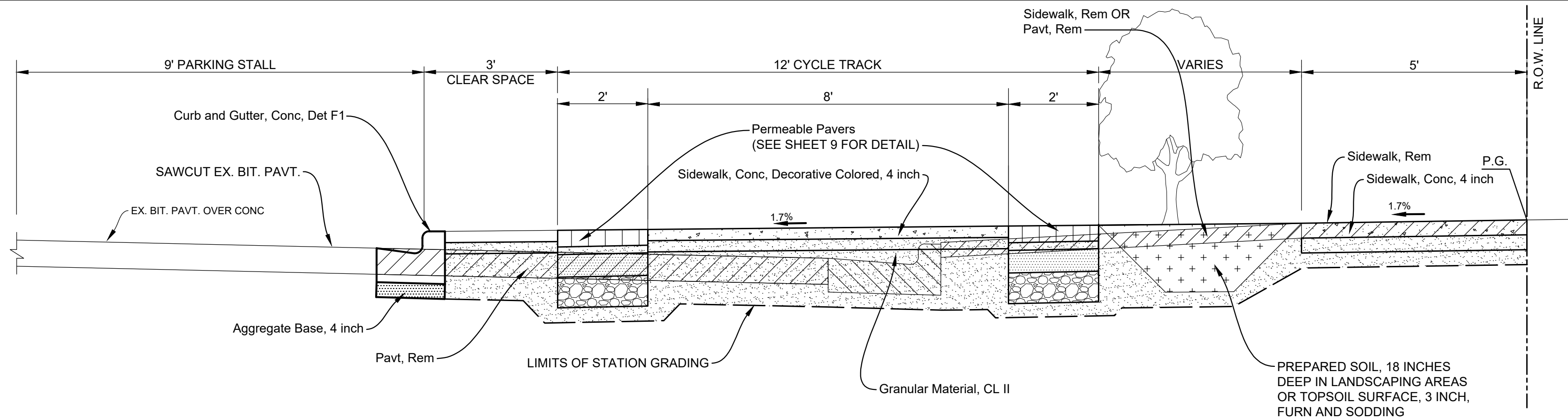
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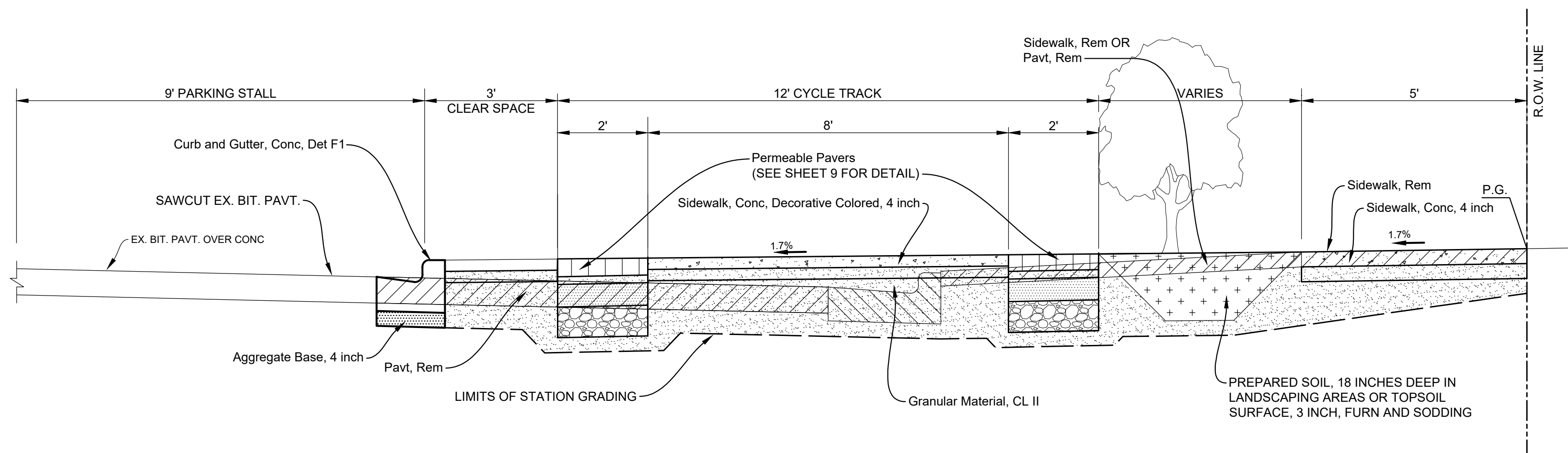
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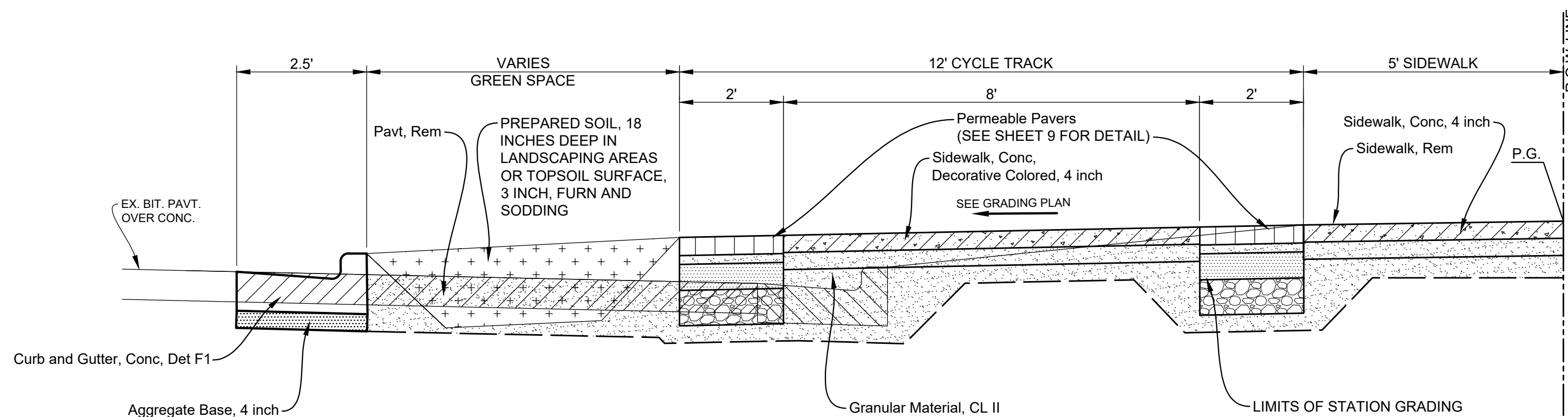
CONSTRUCTION CROSS SECTION

STA 27+22 TO STA 29+06 WOODWARD AVE. (M-1)
SCALE: 1"=2'



CONSTRUCTION CROSS SECTION

STA 30+45 TO STA 32+60 WOODWARD AVE. (M-1)
SCALE: 1"=2'



CONSTRUCTION CROSS SECTION

STA 33+85 TO STA 34+85 WOODWARD AVE. (M-1)
STA 04+97 TO STA 05+45 MAIN STREET
SCALE: 1"=2'

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DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

TYPICAL CROSS SECTIONS

CLIENT:

CITY OF PLEASANT RIDGE

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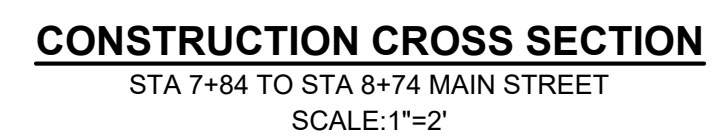
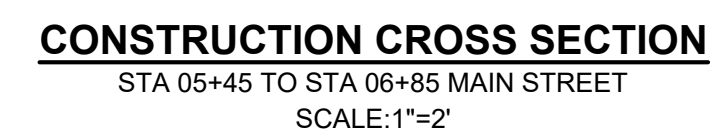
SHEET NO.

5



51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315


ENGINEERING STRONG COMMUNITIES

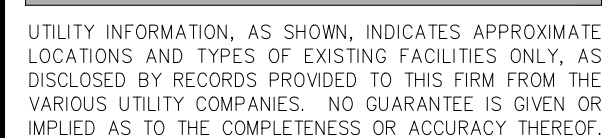


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DATE	SUBMITTALS/REVISIONS

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

TYPICAL CROSS SECTIONS

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DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE: $1" = 2'$		
		

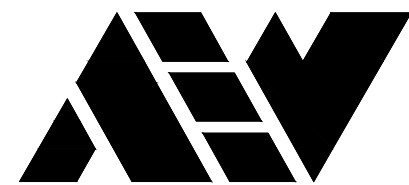
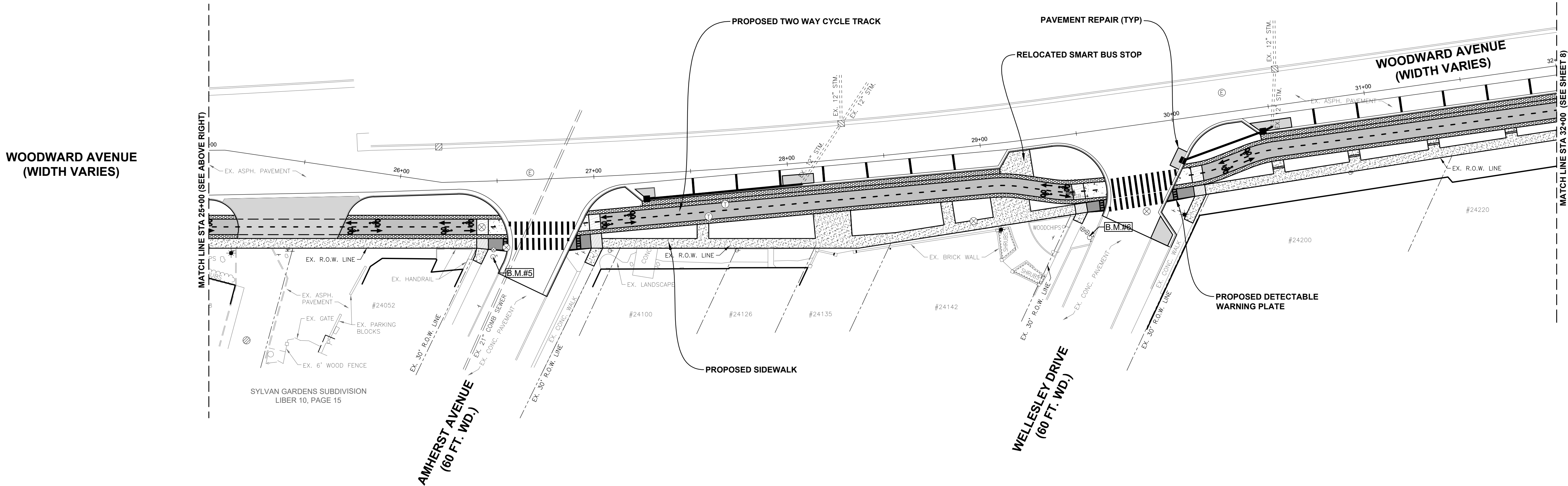
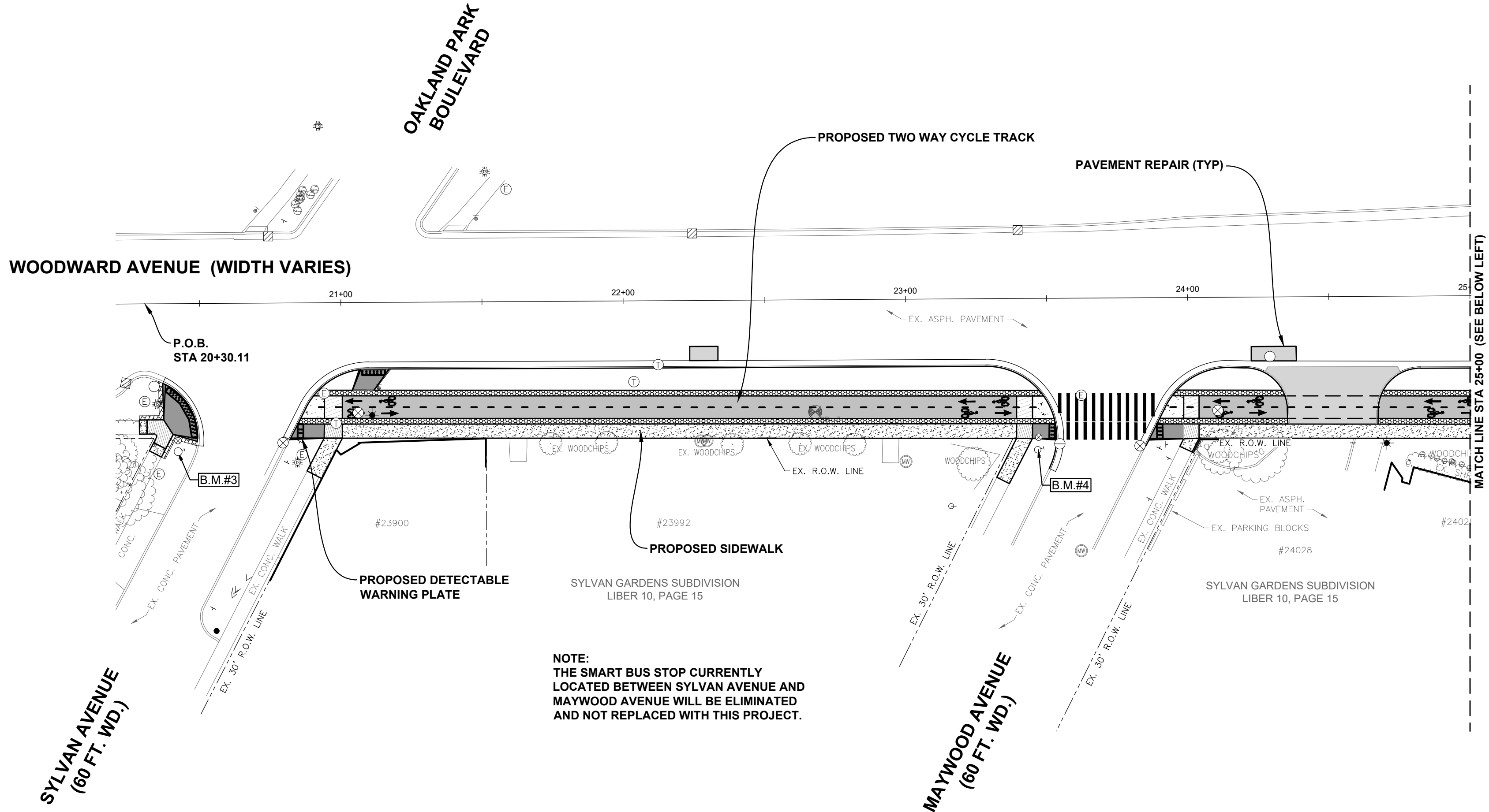
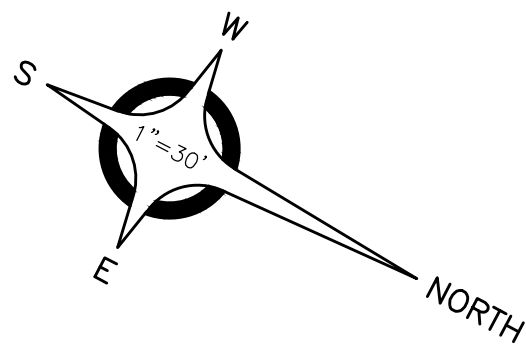


PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

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SHEET NO.



ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
SHEET TITLE:	
OVERALL PLAN SYLVAN TO WELLESLEY	
CLIENT: CITY OF PLEASANT RIDGE	
DRAWN BY: NAC CHECKED BY: MDS DATE: JANUARY 2022	
SCALE: 1" = 30'	
0 15 30 60	

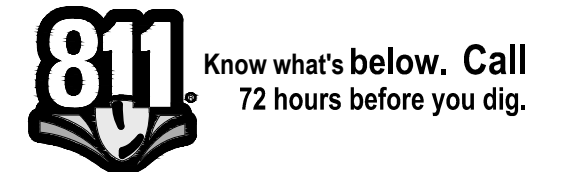
WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

OVERALL PLAN SYLVAN TO WELLESLEY

CLIENT:
CITY OF PLEASANT RIDGE

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 30'		
0 15 30 60		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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PROJECT NO.

0175-0115

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SHEET NO.

7

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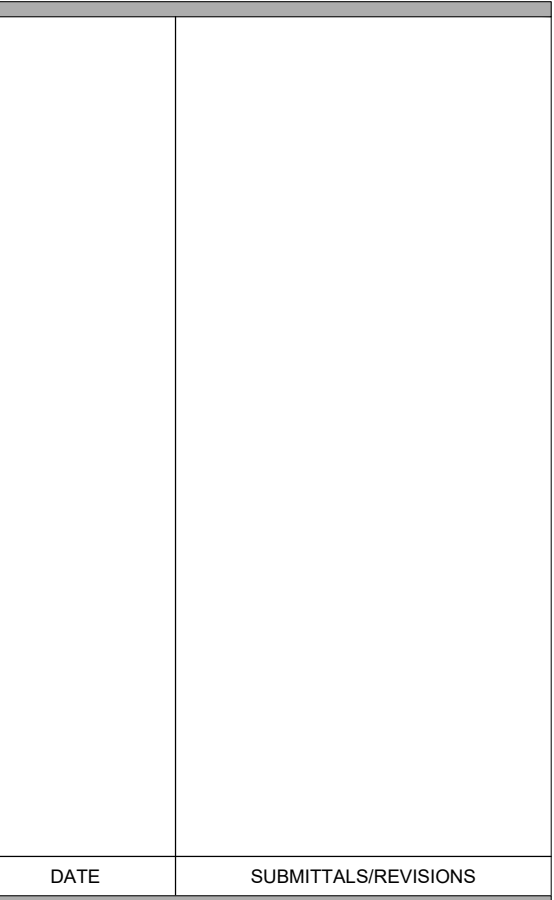


CIVIL ENGINEERS SURVEYORS ARCHITECTS

301 Schoenherr Road Phone 586 726 1234
Elby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES



OBJECT NAME:

EET TITLE:

IENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022

SCALE:

1" = 30'

A horizontal scale bar with tick marks at 0, 15, 30, and 60 feet. The bar is divided into segments: 0 to 15 feet is black, 15 to 30 feet is white, 30 to 45 feet is black, and 45 to 60 feet is white.



Now what's below. Call
72 hours before you dig.

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE RELEVANT UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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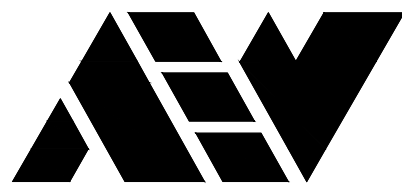
URING CONSTRUCTION, THE CONTRACTOR SHALL USE
TREMENDOUS CAUTION WHEN OPERATING NEAR ANY AND ALL
OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

0175-0115

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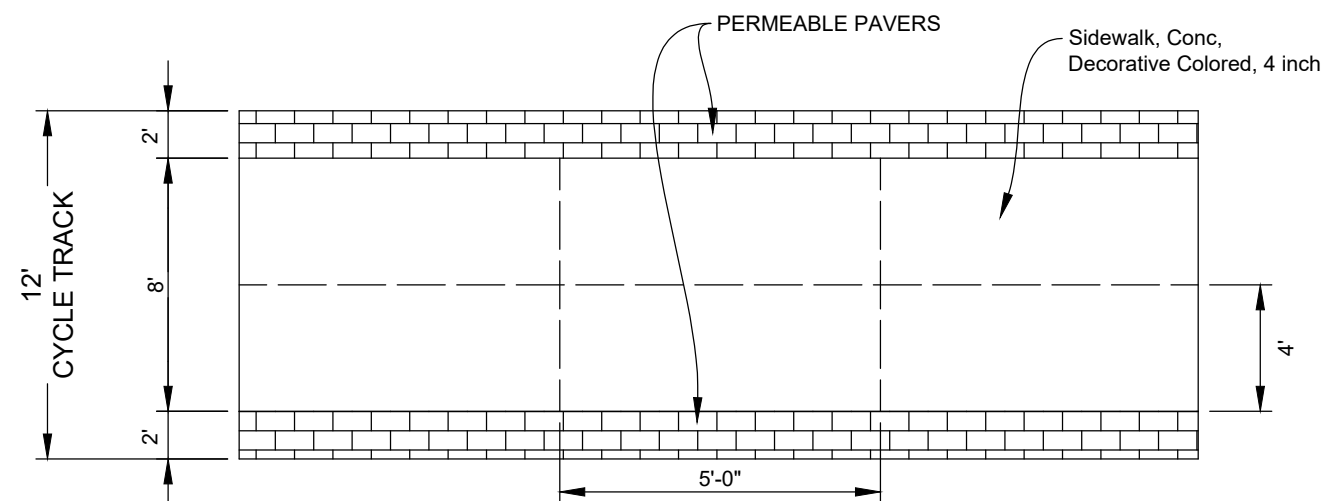
ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
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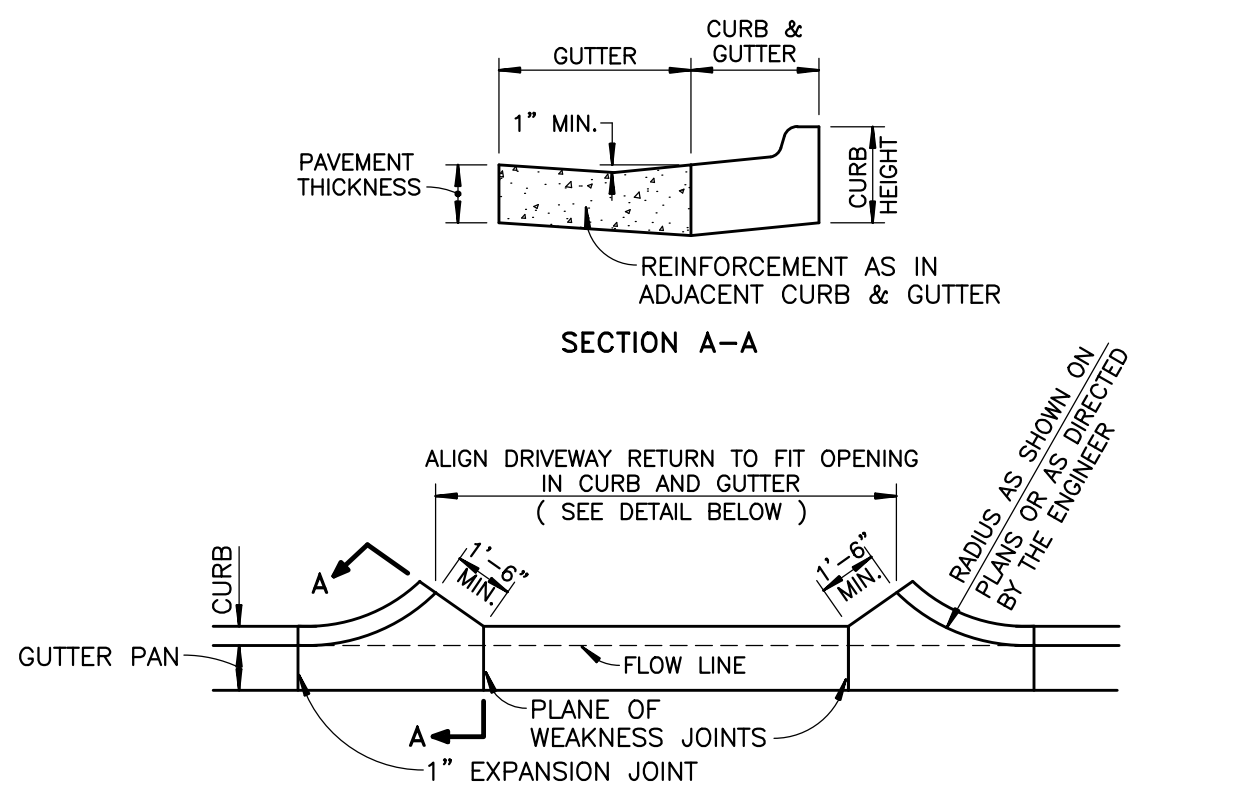
ENGINEERING STRONG COMMUNITIES



NOTE:
PLACE CONTRACTION JOINTS
AT INTERVALS OF 5' FULL
WIDTH OF WALK AND 1/2
THICKNESS OF CONCRETE.
PLACE 1/2" FIBER EXPANSION
JOINTS AT INTERVALS OF 50'

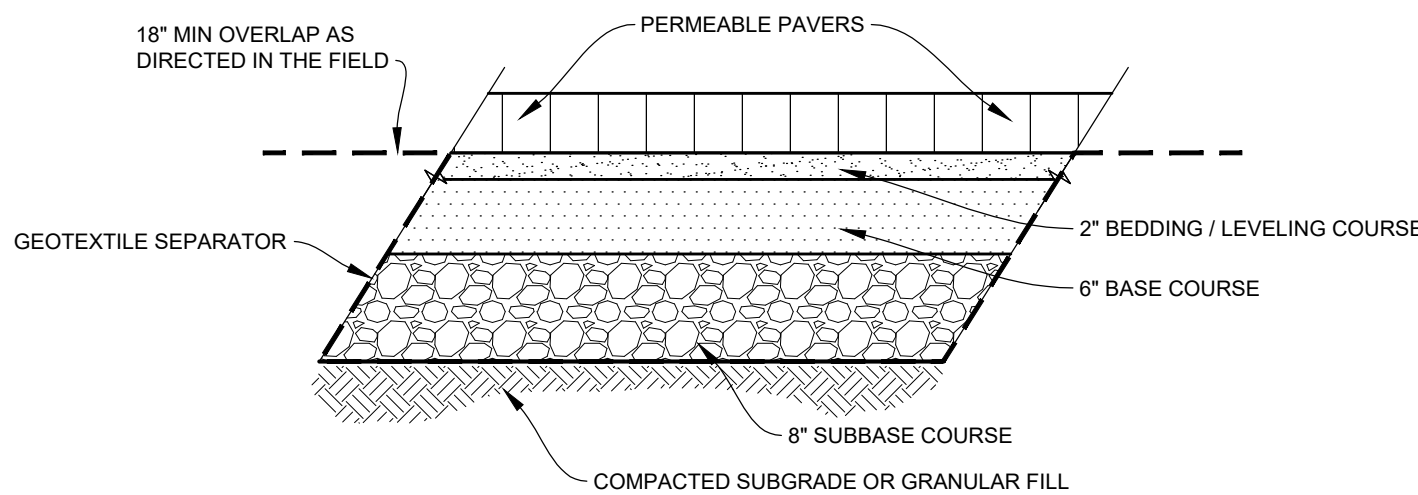
BIKE PATH PLAN VIEW

NOT TO SCALE



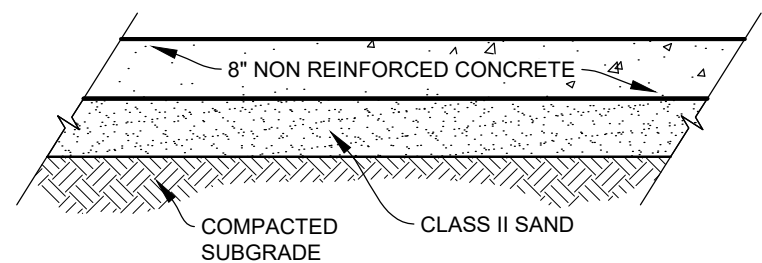
CONCRETE DRIVEWAY OPENING - DETAIL "M"

NOT TO SCALE



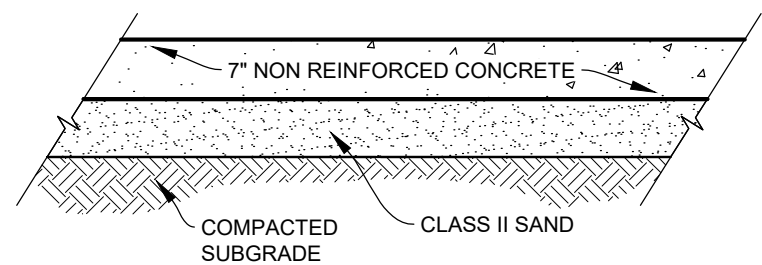
PERMEABLE PAVER SECTION

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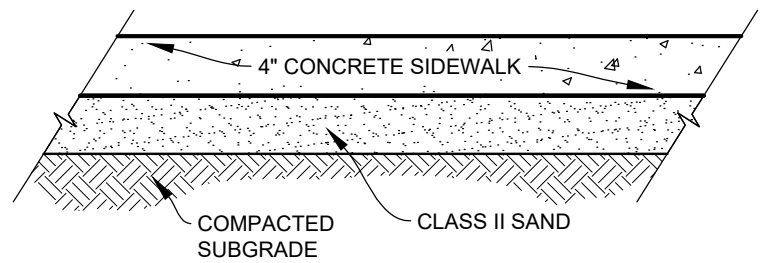
TYPICAL 8" CONCRETE
SIDEWALK SECTION

NOT TO SCALE



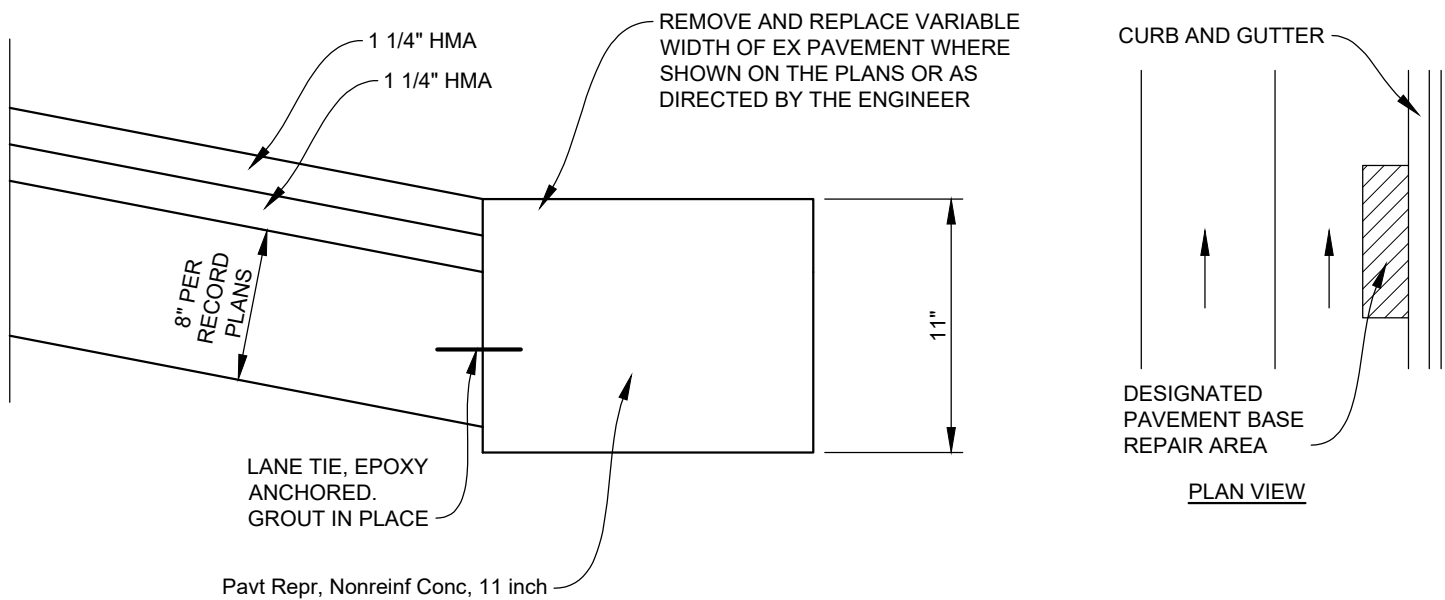
TYPICAL 7" CONCRETE
DRIVEWAY SECTION

NOT TO SCALE



TYPICAL 4" CONCRETE
SIDEWALK SECTION

NOT TO SCALE



PAVEMENT REPAIR

NOT TO SCALE

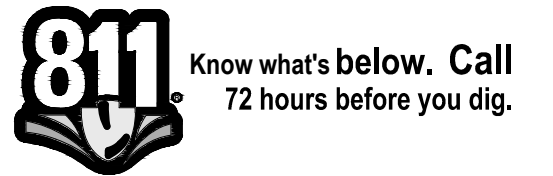
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PROJECT NAME:	
SHEET TITLE:	
CLIENT:	
CITY OF PLEASANT RIDGE	
PRELIMINARY CONSTRUCTION RECORD	
DRAWN BY:	CHECKED BY:
NAC	MDS
DATE:	DATE:
JANUARY 2022	JANUARY 2022
SCALE:	
AS NOTED	

WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

MISCELLANEOUS
PROJECT
DETAILS

CITY OF PLEASANT RIDGE

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:		
AS NOTED		



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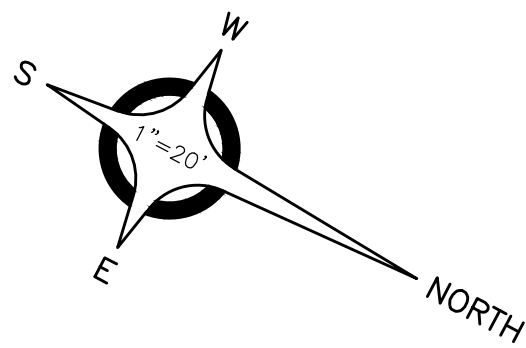
PROJECT NO.

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SHEET NO.

9



LEGEND

REMOVE EXIST. PAVEMENT (Pavt., Rem)

REMOVE EXIST. CONC. WALK (Sidewalk, Rem)

HMA Surface, Rem AND Pavt. Rem

REMOVE EXIST. CONC. CURB & GUTTER

REMOVE DRAINAGE STRUCTURE

REMOVE EXIST. TREE

ANDERSON, ECKSTEIN AND WESTRICK, INC.

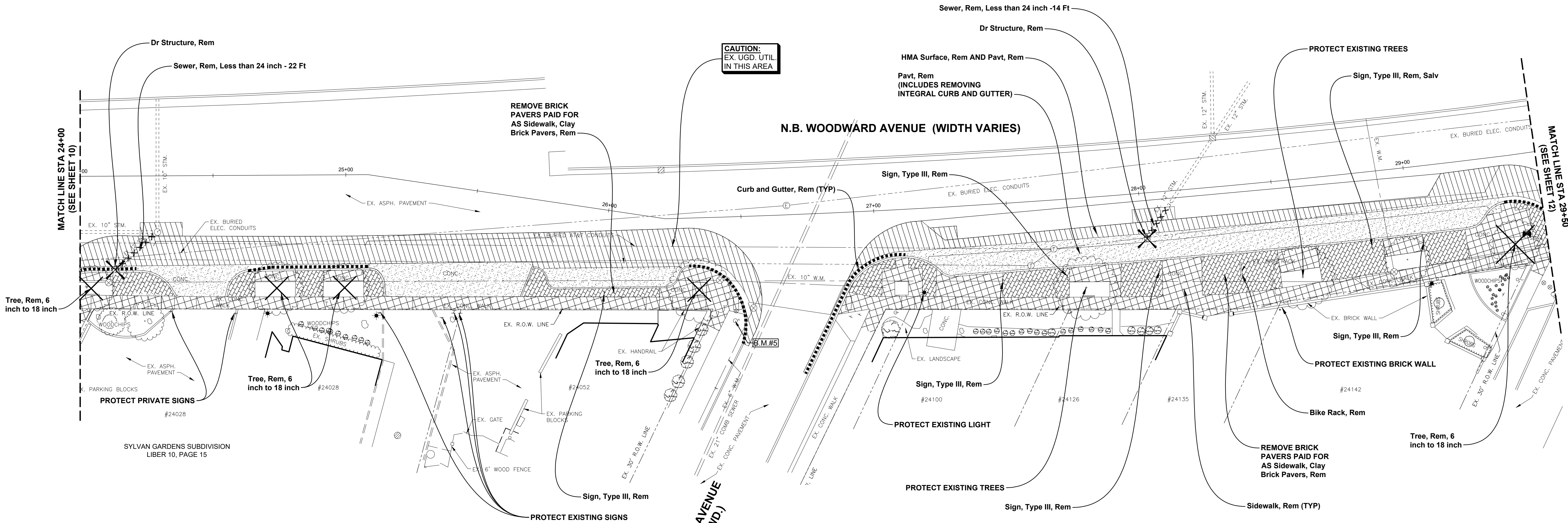
CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road
Shelby Township
Michigan 48315

Phone 586 726 1234
Fax 586 726 8780

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ENGINEERING STRONG COMMUNITIES



QUANTITY LIST (THIS SHEET)			
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Sidewalk, Rem	500	Syd
2.	Pavt, Rem	947	Syd
3.	Sidewalk, Clay Brick Pavers, Rem	2,545	Sft
4.	Dr Structure, Rem	2	Ea
5.	Sewer, Rem, Less than 24 inch	36	Fl
6.	Sign Type III, Rem	5	Ea
7.	Sign Type III, Rem, Salv	1	Ea
8.	HMA Surface, Rem	542	Syd
9.	Curb and Gutter, Rem	187	Fl
10.	Tree, Rem, 6 inch to 18 inch	5	Ea
11.	Bike Rack, Rem	1	Ea

NOTE:
THE CONTRACTOR SHALL PROTECT TREES
DESIGNATED TO REMAIN. THIS IS DEFINED BUT NOT
LIMITED TO THE FOLLOWING: PROHIBITING THE
STORAGE OF EQUIPMENT AND MATERIALS WITHIN
THE DRIP LINES OF SAID TREES.

NOTE:
MDOT RECORD PLANS INDICATE THAT WOODWARD
AVENUE IS AN ASPHALT OVERLAY. THEREFORE, THE
QUANTITIES REFLECTED ON THIS SHEET ACCOUNT
FOR A LAYER OF BASE CONCRETE BEING REMOVED
AND PAID FOR AS: Pavt, Rem

24+00.5 PAVEMENT PORT 42.3'
24+01.5 PARKING BLOCKS 56.3'
24+02.5 13" DECIDUOUS 42.9'
24+03.5 2" DIA. BOUNDER 53.5'
24+04.5 2" DIA. BOUNDER 53.5'
24+05.5 4" DECIDUOUS 2, 55.2'
24+06.5 4" DECIDUOUS 2, 55.2'
24+07.5 4" DECIDUOUS 2, 55.2'
24+08.5 4" DECIDUOUS 2, 55.2'
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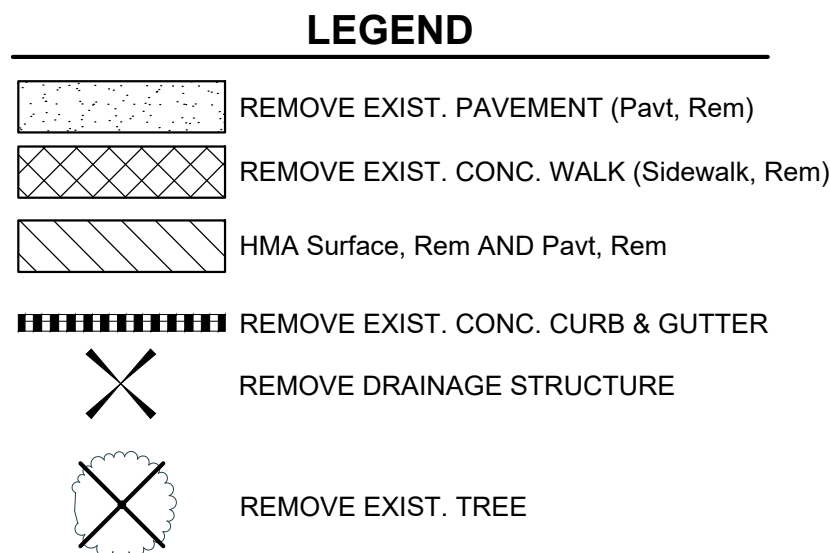
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26+30.0 SIGN-POST MOUNT 52.2'
26+31.0 SIGN-POST MOUNT 52.2'
26+32.0 SIGN-POST MOUNT 52.2'
26+33.0 SIGN-POST MOUNT 52.2'
26+34.0 SIGN-POST MOUNT 52.2'
26+35.0 SIGN-POST MOUNT 52.2'
26+36.0 SIGN-POST MOUNT 52.2'
26+37.0 SIGN-POST MOUNT 52.2'
26+38.0 SIGN-POST MOUNT 52.2'
26+39.0 SIGN-POST MOUNT 52.2'
26+40.0 SIGN-POST MOUNT 52.2'

26+40.1 SIGN-POST MOUNT 52.2'
26+41.1 SIGN-POST MOUNT 52.2'
26+42.1 SIGN-POST MOUNT 52.2'
26+43.1 SIGN-POST MOUNT 52.2'
26+44.1 SIGN-POST MOUNT 52.2'
26+45.1 SIGN-POST MOUNT 52.2'
26+46.1 SIGN-POST MOUNT 52.2'
26+47.1 SIGN-POST MOUNT 52.2'
26+48.1 SIGN-POST MOUNT 52.2'
26+49.1 SIGN-POST MOUNT 52.2'
26+50.1 SIGN-POST MOUNT 52.2'
26+51.1 SIGN-POST MOUNT 52.2'
26+52.1 SIGN-POST MOUNT 52.2'
26+53.1 SIGN-POST MOUNT 52.2'
26+54.1 SIGN-POST MOUNT 52.2'
26+55.1 SIGN-POST MOUNT 52.2'
26+56.1 SIGN-POST MOUNT 52.2'
26+57.1 SIGN-POST MOUNT 52.2'
26+58.1 SIGN-POST MOUNT 52.2'
26+59.1 SIGN-POST MOUNT 52.2'
27+00.1 SIGN-POST MOUNT 52.2'

27+00.2 SIGN-POST MOUNT 52.2'
27+01.2 SIGN-POST MOUNT 52.2'
27+02.2 SIGN-POST MOUNT 52.2'
27+03.2 SIGN-POST MOUNT 52.2'
27+04.2 SIGN-POST MOUNT 52.2'
27+05.2 SIGN-POST MOUNT 52.2'
27+06.2 SIGN-POST MOUNT 52.2'
27+07.2 SIGN-POST MOUNT 52.2'
27+08.2 SIGN-POST MOUNT 52.2'
27+09.2 SIGN-POST MOUNT 52.2'
27+10.2 SIGN-POST MOUNT 52.2'
27+11.2 SIGN-POST MOUNT 52.2'
27+12.2 SIGN-POST MOUNT 52.2'
27+13.2 SIGN-POST MOUNT 52.2'
27+14.2 SIGN-POST MOUNT 52.2'
27+15.2 SIGN-POST MOUNT 52.2'
27+16.2 SIGN-POST MOUNT 52.2'
27+17.2 SIGN-POST MOUNT 52.2'
27+18.2 SIGN-POST MOUNT 52.2'
27+19.2 SIGN-POST MOUNT 52.2'
28+00.2 SIGN-POST MOUNT 52.2'

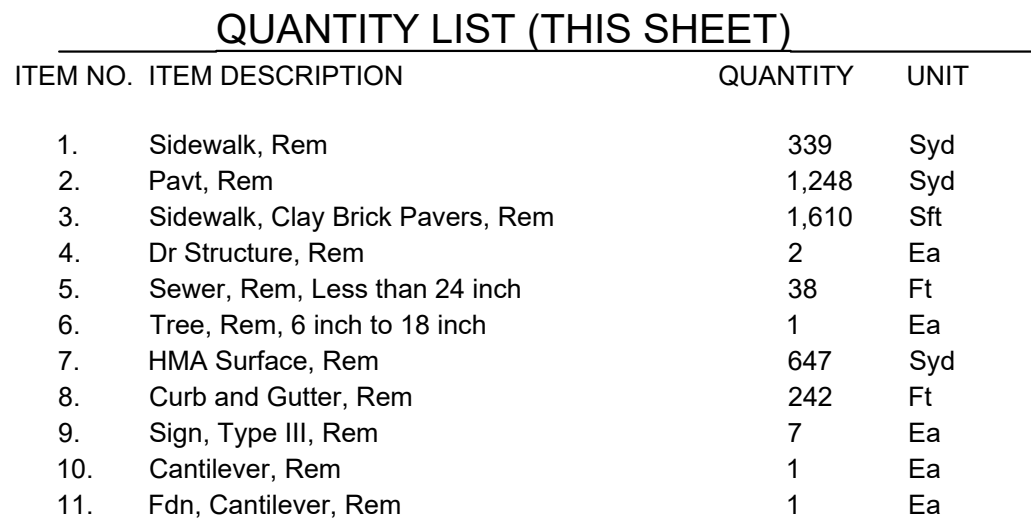
28+00.3 SIGN-POST MOUNT 52.2'
28+01.3 SIGN-POST MOUNT 52.2'
28+02.3 SIGN-POST MOUNT 52.2'
28+03.3 SIGN-POST MOUNT 52.2'
28+04.3 SIGN-POST MOUNT 52.2'
28+05.3 SIGN-POST MOUNT 52.2'
28+06.3 SIGN-POST MOUNT 52.2'
28+07.3 SIGN-POST MOUNT 52.2'
28+08.3 SIGN-POST MOUNT 52.2'
28+09.3 SIGN-POST MOUNT 52.2'
28+10.3 SIGN-POST MOUNT 52.2'
28+11.3 SIGN-POST MOUNT 52.2'
28+12.3 SIGN-POST MOUNT 52.2'
28+13.3 SIGN-POST MOUNT 52.2'
28+14.3 SIGN-POST MOUNT 52.2'
28+15.3 SIGN-POST MOUNT 52.2'
28+16.3 SIGN-POST MOUNT 52.2'
28+17.3 SIGN-POST MOUNT 52.2'
28+18.3 SIGN-POST MOUNT 52.2'
28+19.3 SIGN-POST MOUNT 52.2'
29+00.3 SIGN-POST MOUNT 52.2'

29+00.4 SIGN-POST MOUNT 52.2'
29+01.4 SIGN-POST MOUNT 52.2'
29+02.4 SIGN-POST MOUNT 52.2'
29+03.4 SIGN-POST MOUNT 52.2'
29+04.4 SIGN-POST MOUNT 52.2'
29+05.4 SIGN-POST MOUNT 52.2'
29+06.4 SIGN-POST MOUNT 52.2'
29+07.4 SIGN-POST MOUNT 52.2'
29+08.4 SIGN-POST MOUNT 52.2'
29+09.4 SIGN-POST MOUNT 52.2'
29+10.4 SIGN-POST MOUNT 52.2'
29+11.4 SIGN-POST MOUNT 52.2'
29+12.4 SIGN-POST MOUNT 52.2'
29+13.4 SIGN-POST MOUNT 52.2'
29+14.4 SIGN-POST MOUNT 52.2'
29+15.4 SIGN-POST MOUNT 52.2'
29+16.4 SIGN-POST MOUNT 52.2'
29+17.4 SIGN-POST MOUNT 52.2'
29+18.4 SIGN-POST MOUNT 52.2'
29+19.4 SIGN-POST MOUNT 52.2'
30+00.4 SIGN-POST MOUNT 52.2'



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Shelby Township Fax 586 726 8780
Michigan 48315

ENGINEERING STRONG COMMUNITIES



NOTE:
MDOT RECORD PLANS INDICATE THAT WOODWARD AVENUE IS AN ASPHALT OVERLAY. THEREFORE, THE QUANTITIES REFLECTED ON THIS SHEET ACCOUNT FOR A LAYER OF BASE CONCRETE BEING REMOVED AND PAID FOR AS: Pavt, Rem

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS


REMOVAL PLAN

STA 29+50 TO STA 34+50

CITY OF PLEASANT RIDGE

SCALE:

1" = 20'



A horizontal scale bar with alternating black and white segments. It is marked with the numbers 0, 10, 20, and 40 at the top.



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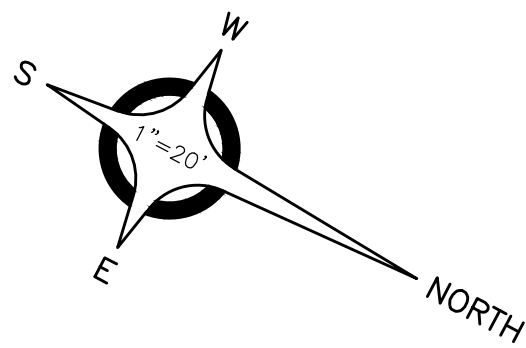
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0175-0115

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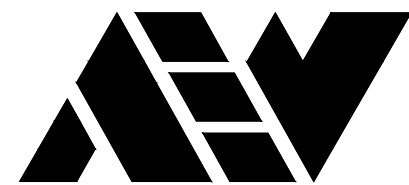
12

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LEGEND

REMOVE EXIST. PAVEMENT (Pavt, Rem)

REMOVE EXIST. CONC. WALK (Sidewalk, Rem)

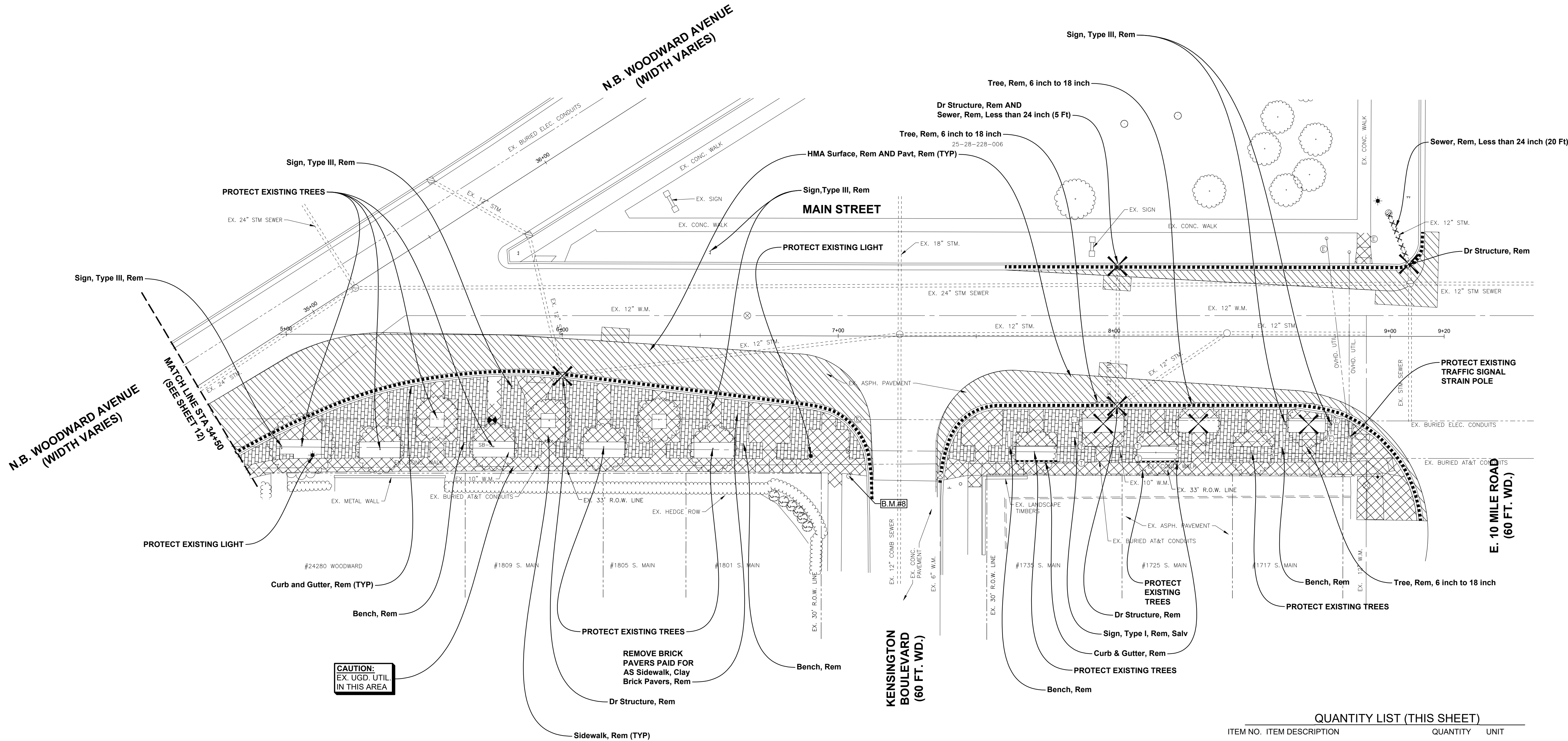
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ENGINEERING STRONG COMMUNITIES



NOTE:
THE CONTRACTOR SHALL PROTECT TREES
DESIGNATED TO REMAIN. THIS IS DEFINED BUT NOT
LIMITED TO THE FOLLOWING: PROHIBITING THE
STORAGE OF EQUIPMENT AND MATERIALS WITHIN
THE DRIP LINES OF SAID TREES.

NOTE:
MDOT RECORD PLANS INDICATE THAT WOODWARD
AVENUE IS AN ASPHALT OVERLAY. THEREFORE, THE
QUANTITIES REFLECTED ON THIS SHEET ACCOUNT
FOR A LAYER OF BASE CONCRETE BEING REMOVED
AND PAID FOR AS: Pavt, Rem

QUANTITY LIST (THIS SHEET)

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Sidewalk, Rem	541	Syd
2.	HMA Surface, Rem	692	Syd
3.	Pavt, Rem	692	Syd
4.	Sidewalk, Clay Brick Pavers, Rem	3,778	Sft
5.	Dr Structure, Rem	4	Ea
6.	Curb and Gutter, Rem	665	Ft
7.	Sign, Type I, Rem, Salv	1	Ea
8.	Sign, Type III, Rem	6	Ea
9.	Bench, Rem	4	Ea
10.	Sewer, Rem, Less than 24 inch	20	Ft
11.	Tree, Rem, 6 inch to 18 inch	3	Ea

34+08.4 ROAD CB 25.1'

34+24.6 GW 13.6'

34+31.2 PHONE MH 22.0'

34+63.7 SIGN-TWO POST 33.6'

34+70.4 18" DECIDUOUS 37.1'

34+71.8 STREET LIGHT 42.1'

34+93.5 13" DECIDUOUS 53.5'

5+05.8 18" DECIDUOUS 40.3'

5+09.7 STREET LIGHT 43.8'

5+34.1 13" DECIDUOUS 41.6'

5+54.7 12" DECIDUOUS 30.0'

5+75.3 13" DECIDUOUS 40.5'

5+81.8 SIGN-TWO POST 18.9'

5+95.2 12" DECIDUOUS 31.0'

6+00.1 ROAD CB 14.8'

6+15.2 13" DECIDUOUS 40.5'

6+35.2 12" DECIDUOUS 30.6'

6+54.4 SIGN-TWO POST 27.7'

6+54.6 13" DECIDUOUS 40.9'

6+77.7 4" DIA BUSH 58.0'

6+80.5 4" DIA BUSH 60.0'

6+83.3 4" DIA BUSH 61.1'

6+85.9 4" DIA BUSH 61.6'

6+87.3 4" DIA BUSH 66.0'

6+89.3 4" DIA BUSH 68.0'

6+90.3 STREET LIGHT 43.5'

7+03.9 WALK-BOX 41.9'

7+04.4 HUMAN 30.8'

7+07.2 ELEC. MH 30.2'

7+37.7 GW 50.4'

7+40.4 SIGN-POST MOUNT 55.1'

7+44.4 4" SON POLE 53.5'

7+71.1 12" DECIDUOUS 41.8'

7+88.2 PHONE MH 39.9'

7+88.2 PHONE MH 45.9'

7+96. 13" DECIDUOUS 31.8'

8+01.1 ROAD CB 25.2'

8+08.6 PHONE MH 39.9'

8+08.6 PHONE MH 42.4'

8+15.2 12" DECIDUOUS 42.1'

8+30.5 12" DECIDUOUS 31.8'

8+49.9 12" DECIDUOUS 42.0'

8+61.8 SIGN-TWO POST 31.4'

8+70.5 12" DECIDUOUS 32.0'

8+78.4 TRAF SIG MH 37.0'

8+78.5 SIGN-TWO POST 31.7'

8+80.6 ELEC. MH 30.6'

8+85.2 STRAIN POLE 36.4'

8+91.2 GW 54.0'

8+95.3 CROSSING SIGN 51.5'

8+95.3 CROSSING BUTTON POST 50.9'

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

REMOVAL PLAN

STA 34+50 TO STA 34+85
WOODWARD AVE
STA 5+00 TO STA 9+16
MAIN ST

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 20'		



Know what's below. Call
72 hours before you dig.

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE
LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS
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PROJECT NO.

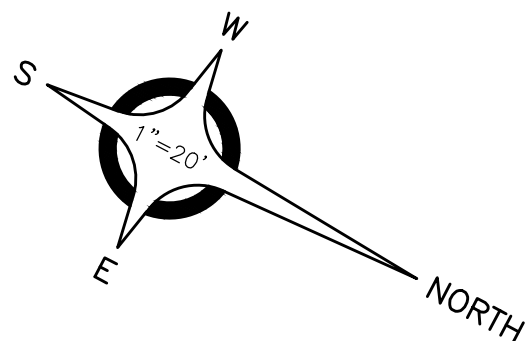
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SHEET NO.

13

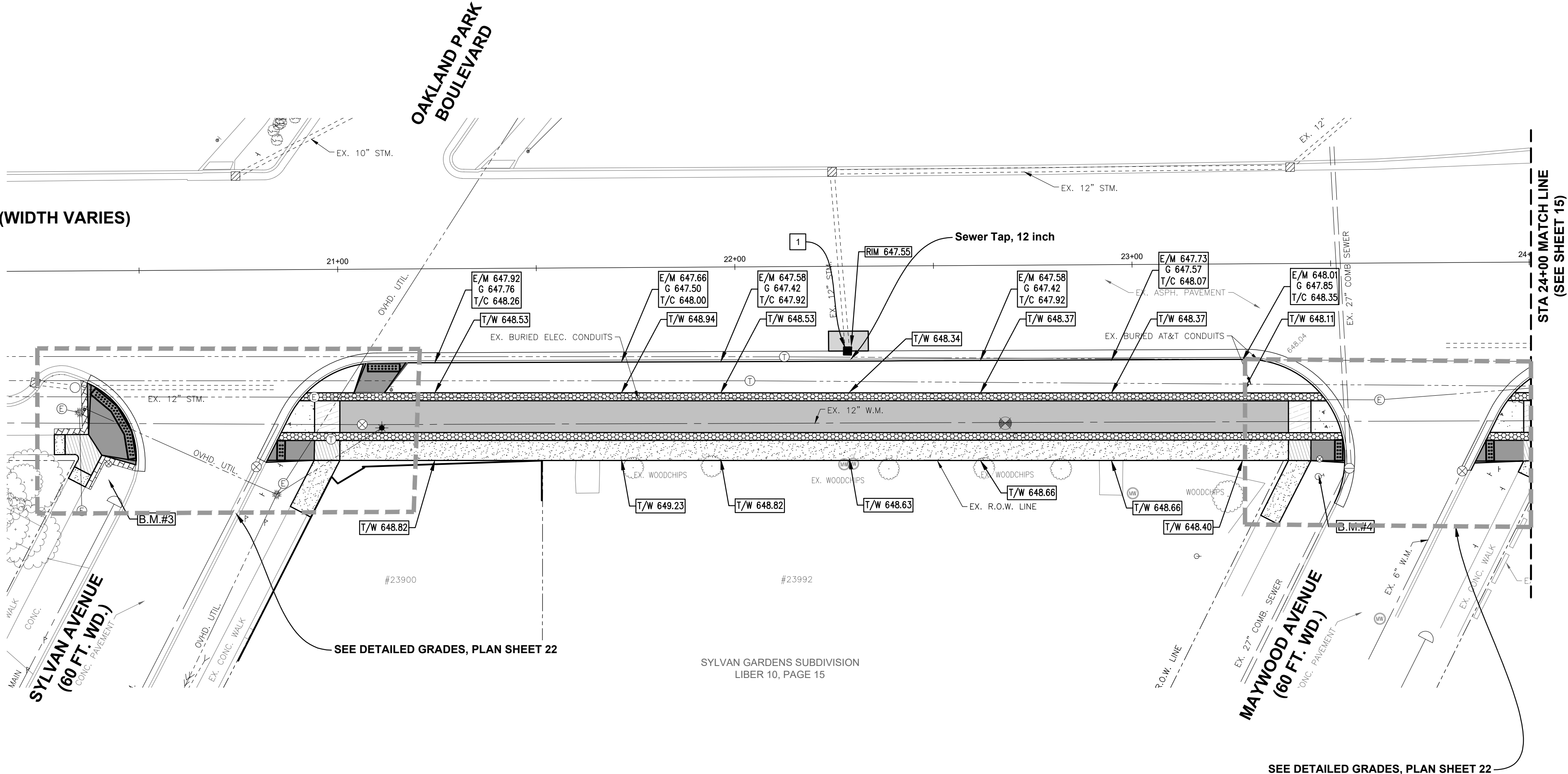


1 STA 22+28.23, 21.3' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 647.55
12" I.E. 644.24 W

PAVING LEGEND

- Sidewalk, Conc, 4 inch
- Curb Ramp, Conc, 4 inch
- Curb Ramp, Conc, 8 inch
- Sidewalk, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Color, 8 inch
- Pavement Repair (SEE DETAIL SHEET 9)
- Permeable Pavers
- F-5 CONC. CURB & GUTTER
- PROPOSED GRADE
- FLOW ARROW
- EXIST. GRADE
- E/M EDGE OF METAL
- T/C TOP CONC. CURB
- T/W TOP CONC. WALK
- G. TOP CONC. GUTTER
- P/E PAVEMENT ELEVATION

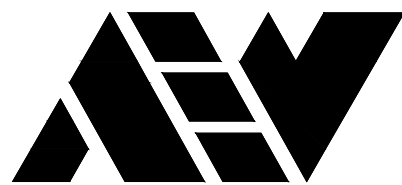
N.B. WOODWARD AVENUE (WIDTH VARIES)



QUANTITY LIST (THIS SHEET)

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Dr Structure, 48 inch dia	1	Ea
2.	Sewer Tap, 12 inch	1	Ea

20+30.8	U.P. W/LIGHT 158.0'
20+31.4	TRAFFIC LIGHT 35.6'
20+34.7	ELEC. MH 60.3'
20+37.2	CROSSING BUTTON POST 34.9'
20+41.6	WALK BOX 46.0'
20+52.2	SIGN-POST MOUNT 108.0'
20+56.4	U.P. W/TRANSF 116.1'
20+61.8	GLY WIRE 104.4'
20+63.3	GLY WIRE 102.5'
20+66.8	GLY WIRE 98.2'
20+79.7	GW 48.3' MOUNT 56.1'
20+81.9	TRAFFIC LIGHT UP 56.3'
20+85.8	TRAFFIC LIGHT 48.8'
20+86.3	TRAFFIC MH 53.5'
20+94.2	ELEC. MH 31.7'
20+98.5	PHONE MH 42.3'
21+06.3	GW 38.6'
21+11.3	U.P. W/LIGHT 79.4'
21+13.6	CROSSING BUTTON POST 29.8'
21+35.7	16" LOCUST 35.2'
21+36.7	MAILBOX 47.1'
21+48.5	SIGN-POST MOUNT 30.3'
21+51.6	18" LOCUST 40.4'
21+73.9	4" DECIDUOUS 49.8'
21+93.7	4" DECIDUOUS 49.6'
22+03.5	PHONE MH 28.3'
22+12.2	PHONE MH 22.3'
22+13.5	SIGN-POST MOUNT 32.3'
22+27.1	MONITOR WELL 49.5'
22+28.8	ROAD CB 28.9'
22+29.2	MONITOR WELL 49.4'
22+37.8	SIGN-POST MOUNT 33.0'
22+38.3	4" DECIDUOUS 50.8'
22+50.7	18" DECIDUOUS 40.1'
22+62.3	4" DECIDUOUS 50.8'
22+81.5	4" DECIDUOUS 51.2'
22+99.5	MONITOR WELL 57.6'
23+15.4	SERVICESHUTOFF 73.6'
23+23.5	6" DECIDUOUS 58.6'
23+29.5	16" DECIDUOUS 41.9'
23+38.8	STREET LIGHT 42.5'
23+46.2	HYDRANT 54.0'
23+46.4	W.M. 53.8'
23+46.6	W.M. 53.8'
23+44.1	SANITARY MH 52.0'
23+61.3	MONITOR WELL 89.9'
23+61.9	ELEC. MH 34.9'
23+82.5	GW 53.0'
23+82.7	PARKING BLOCKS 95.2'
23+86.3	TRAFFIC LIGHT 71.6'
23+86.3	SIGN-POST MOUNT 52.6'
23+87.7	SIGN-POST MOUNT 52.6'
23+92.6	SIGN-POST MOUNT 57.5'



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CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
SHEET TITLE:	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

GRADING AND STORM SEWER PLAN STA 20+30.11 TO STA 24+00

CLIENT:

CITY OF PLEASANT RIDGE

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:	1" = 20'	



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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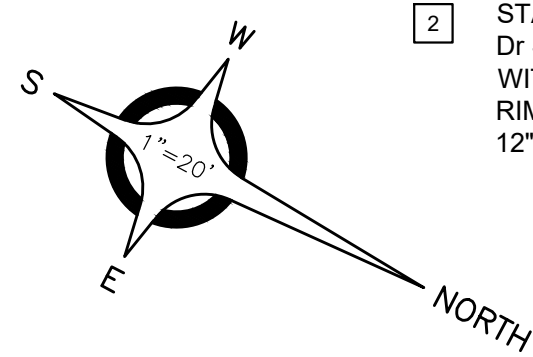
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SHEET NO.

14



2 STA 24+34.27, 24' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 648.55
12" I.E. 644.55 SW

3 STA 27+26.66, 13' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 650.31
6" I.E. 644.52 E
12" I.E. 646.31 N

4 STA 28+06.58, 11' RT
Dr Structure, 48 inch,
WITH SOLID COVER
RIM 651.10
12" I.E. 641.98 NW
12" I.E. 645.97 S

PAVING LEGEND

- Sidewalk, Conc, 4 inch
- Curb Ramp, Conc, 4 inch
- Curb Ramp, Conc, 8 inch
- Sidewalk, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Color, 8 inch
- Pavement Repair (SEE DETAIL SHEET 9)
- Permeable Pavers
- F-5 OR F-1 CONC. CURB & GUTTER
- PROPOSED GRADE
- FLOW ARROW
- EXIST. GRADE
- E/M EDGE OF METAL
- T/C TOP CONC. CURB
- T/W TOP CONC. WALK
- G. TOP CONC. GUTTER
- P/E PAVEMENT ELEVATION



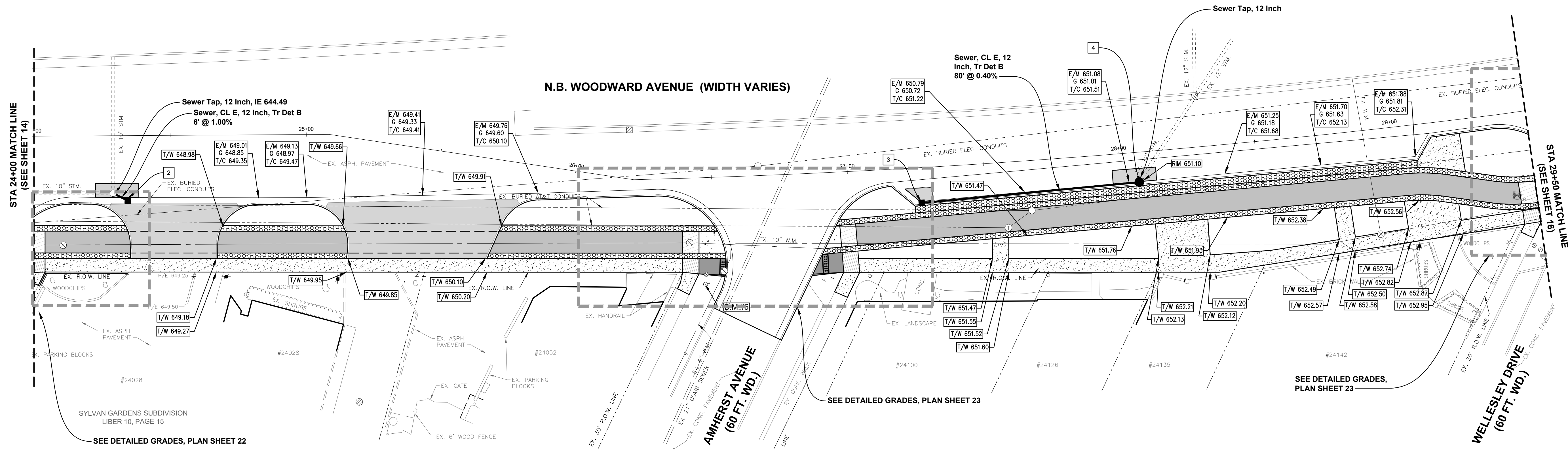
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Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES



QUANTITY LIST (THIS SHEET)

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Sewer, CL E, 12 inch, Tr Det B	86	Ft
2.	Sewer Tap, 12 inch	2	Ea
3.	Dr Structure, 48 inch dia	9	Ea
4.	Dr Structure Cover, Storm	3	Ea

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

GRADING AND STORM SEWER PLAN STA 24+00 TO STA 29+50

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 20'		



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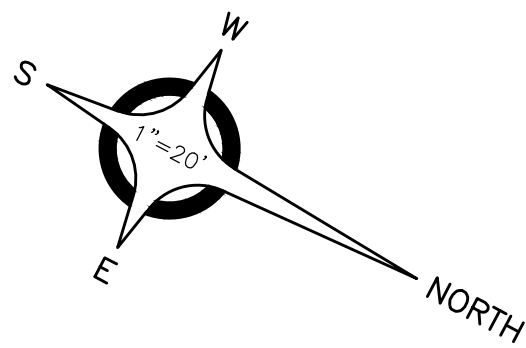
PROJECT NO. 0175-0115

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SHEET NO.

15

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5 STA 30+02.55, 21.6' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 652.74
12" I.E. 643.83 N

6 STA 30+45.69, 12.4' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 652.74
12" I.E. 643.63 SE
12" I.E. 643.63 W

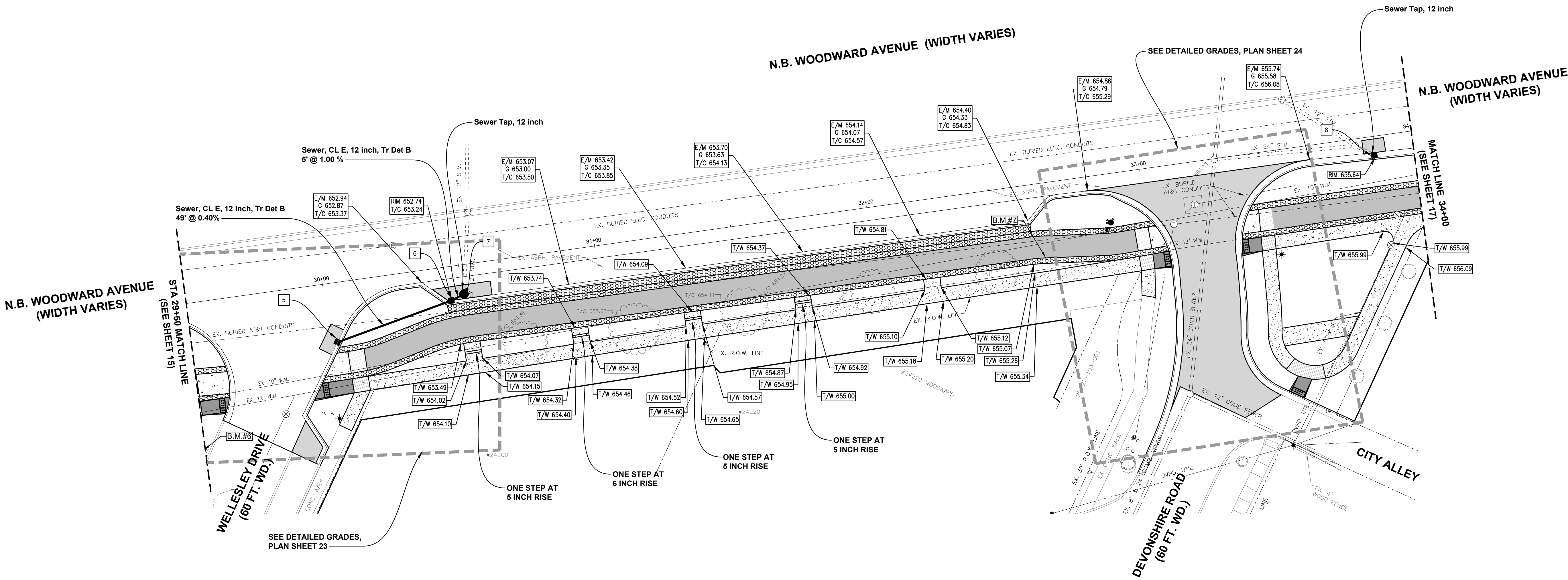
7 STA 30+50.50, 10.7' RT
Dr Structure, 48 inch,
WITH SOLID COVER
RIM 652.74
12" I.E. 643.48 W
12" I.E. 643.58 S

8 STA 33+85.37, 6.8' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 655.64
12" I.E. 643.65 W
6" I.E. 652.47 E

PAVING LEGEND

- Sidewalk, Conc, 4 inch
- Curb Ramp, Conc, 4 inch
- Curb Ramp, Conc, 8 inch
- Sidewalk, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Colored, 4 inch
- Curb Ramp, Conc, Decorative Color, 8 inch
- Pavement Repair (SEE DETAIL SHEET 9)
- Permeable Pavers

- F-5 OR F-1 CONC. CURB & GUTTER
- PROPOSED GRADE
- FLOW ARROW
- EXIST. GRADE
- E/M EDGE OF METAL
- T/C TOP CONC. CURB
- T/W TOP CONC. WALK
- G. TOP CONC. GUTTER
- P/E PAVEMENT ELEVATION

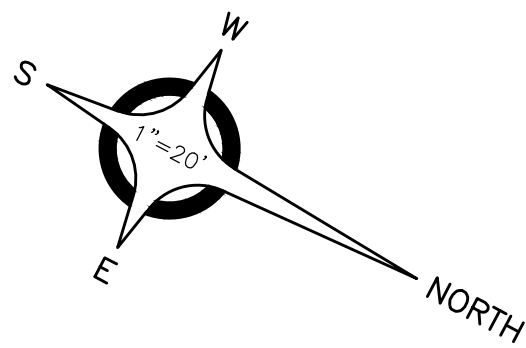


NOTE: THE MAXIMUM RISER HEIGHT OF A STEP IS 8 1/4 INCH AND THE MINIMUM TREAD DEPTH SHALL BE 9 INCHES. HANDRAILS WILL BE APPLICABLE IF FOUR OR MORE RISERS ARE NEEDED. HOWEVER, FOUR OR MORE RISERS IS NOT ANTICIPATED. THE WORK ASSOCIATED WITH THE STEPS WILL BE PAID IN ACCORDANCE WITH THE 2020 STANDARDS FOR CONSTRUCTION AS "STEPS, CONC."

QUANTITY LIST (THIS SHEET)

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Sewer, CL E, 12 inch, Tr Det B	54	Ft
2.	Sewer Tap, 12 inch	2	Ea
3.	Dr Structure, 48 inch dia	4	Ea
4.	Dr Structure Cover, Storm	4	Ea

29+31.8 1" DIA BUSH 45.6"	30+49.4 ROAD CB 16.4"	31+10.5 14" DECIDUOUS 31.5'	32+43.8 12" DECIDUOUS 29.0'	33+05.7 SIGN-POST MOUNT 127.1'	33+18.3 PHONE MH 14.5'
29+33.3 1" DIA BUSH 46.5"	30+51.7 U.P. W/UNDERGRD 119.0'	31+50.9 13" DECIDUOUS 30.8'	32+51.7 U.P. W/UNDERGRD 119.0'	33+07.3 SANITARY MH 82.7'	33+22.7 5" DECIDUOUS 2 109.5'
29+34.8 1" DIA BUSH 44.5"	30+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+08.8 PHONE MH 20.7'	33+23.2 6" DECIDUOUS 2 109.5'
29+36.3 1" DIA BUSH 44.5"	30+57.3 15' DECIDUOUS 29.0'		30+57.3 15' DECIDUOUS 29.0'	33+09.3 1" DIA BUSH 45.5"	33+23.7 8" DECIDUOUS 2 109.5'
29+37.8 1" DIA BUSH 45.5"	30+70.2 12" DECIDUOUS 31.3'		30+70.2 12" DECIDUOUS 31.3'	33+10.8 1" DIA BUSH 45.5"	33+24.2 10" DECIDUOUS 2 109.5'
29+39.3 1" DIA BUSH 45.5"	30+87.3 SERVICESHUTOFF 39.6'		30+87.3 SERVICESHUTOFF 39.6'	33+11.3 1" DIA BUSH 45.5"	33+24.7 12" DECIDUOUS 2 109.5'
29+40.8 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+11.8 1" DIA BUSH 45.5"	33+25.2 14" DECIDUOUS 2 109.5'
29+42.3 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+12.3 1" DIA BUSH 45.5"	33+25.7 16" DECIDUOUS 2 109.5'
29+43.8 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+12.8 1" DIA BUSH 45.5"	33+26.2 18" DECIDUOUS 2 109.5'
29+45.3 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+13.3 1" DIA BUSH 45.5"	33+26.7 20" DECIDUOUS 2 109.5'
29+46.8 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+13.8 1" DIA BUSH 45.5"	33+27.2 22" DECIDUOUS 2 109.5'
29+48.3 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+14.3 1" DIA BUSH 45.5"	33+27.7 24" DECIDUOUS 2 109.5'
29+49.8 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+14.8 1" DIA BUSH 45.5"	33+28.2 26" DECIDUOUS 2 109.5'
29+51.3 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+15.3 1" DIA BUSH 45.5"	33+28.7 28" DECIDUOUS 2 109.5'
29+52.8 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+15.8 1" DIA BUSH 45.5"	33+29.2 30" DECIDUOUS 2 109.5'
29+54.3 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+16.3 1" DIA BUSH 45.5"	33+29.7 32" DECIDUOUS 2 109.5'
29+55.8 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+16.8 1" DIA BUSH 45.5"	33+30.2 34" DECIDUOUS 2 109.5'
29+57.3 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+17.3 1" DIA BUSH 45.5"	33+30.7 36" DECIDUOUS 2 109.5'
29+58.8 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+17.8 1" DIA BUSH 45.5"	33+31.2 38" DECIDUOUS 2 109.5'
29+60.3 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+18.3 1" DIA BUSH 45.5"	33+31.7 40" DECIDUOUS 2 109.5'
29+61.8 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+18.8 1" DIA BUSH 45.5"	33+32.2 42" DECIDUOUS 2 109.5'
29+63.3 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+19.3 1" DIA BUSH 45.5"	33+32.7 44" DECIDUOUS 2 109.5'
29+64.8 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+19.8 1" DIA BUSH 45.5"	33+33.2 46" DECIDUOUS 2 109.5'
29+66.3 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+20.3 1" DIA BUSH 45.5"	33+33.7 48" DECIDUOUS 2 109.5'
29+67.8 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+20.8 1" DIA BUSH 45.5"	33+34.2 50" DECIDUOUS 2 109.5'
29+69.3 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+21.3 1" DIA BUSH 45.5"	33+34.7 52" DECIDUOUS 2 109.5'
29+70.8 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+21.8 1" DIA BUSH 45.5"	33+35.2 54" DECIDUOUS 2 109.5'
29+72.3 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+22.3 1" DIA BUSH 45.5"	33+35.7 56" DECIDUOUS 2 109.5'
29+73.8 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+22.8 1" DIA BUSH 45.5"	33+36.2 58" DECIDUOUS 2 109.5'
29+75.3 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+23.3 1" DIA BUSH 45.5"	33+36.7 60" DECIDUOUS 2 109.5'
29+76.8 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+23.8 1" DIA BUSH 45.5"	33+37.2 62" DECIDUOUS 2 109.5'
29+78.3 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+24.3 1" DIA BUSH 45.5"	33+37.7 64" DECIDUOUS 2 109.5'
29+79.8 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+24.8 1" DIA BUSH 45.5"	33+38.2 66" DECIDUOUS 2 109.5'
29+81.3 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+25.3 1" DIA BUSH 45.5"	33+38.7 68" DECIDUOUS 2 109.5'
29+82.8 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+25.8 1" DIA BUSH 45.5"	33+39.2 70" DECIDUOUS 2 109.5'
29+84.3 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+26.3 1" DIA BUSH 45.5"	33+39.7 72" DECIDUOUS 2 109.5'
29+85.8 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+26.8 1" DIA BUSH 45.5"	33+40.2 74" DECIDUOUS 2 109.5'
29+87.3 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+27.3 1" DIA BUSH 45.5"	33+40.7 76" DECIDUOUS 2 109.5'
29+88.8 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+27.8 1" DIA BUSH 45.5"	33+41.2 78" DECIDUOUS 2 109.5'
29+90.3 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+28.3 1" DIA BUSH 45.5"	33+41.7 80" DECIDUOUS 2 109.5'
29+91.8 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+28.8 1" DIA BUSH 45.5"	33+42.2 82" DECIDUOUS 2 109.5'
29+93.3 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+29.3 1" DIA BUSH 45.5"	33+42.7 84" DECIDUOUS 2 109.5'
29+94.8 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+29.8 1" DIA BUSH 45.5"	33+43.2 86" DECIDUOUS 2 109.5'
29+96.3 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+30.3 1" DIA BUSH 45.5"	33+43.7 88" DECIDUOUS 2 109.5'
29+97.8 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+30.8 1" DIA BUSH 45.5"	33+44.2 90" DECIDUOUS 2 109.5'
29+99.3 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+31.3 1" DIA BUSH 45.5"	33+44.7 92" DECIDUOUS 2 109.5'
29+100.8 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+31.8 1" DIA BUSH 45.5"	33+45.2 94" DECIDUOUS 2 109.5'
29+102.3 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+32.3 1" DIA BUSH 45.5"	33+45.7 96" DECIDUOUS 2 109.5'
29+103.8 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+32.8 1" DIA BUSH 45.5"	33+46.2 98" DECIDUOUS 2 109.5'
29+105.3 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+33.3 1" DIA BUSH 45.5"	33+46.7 100" DECIDUOUS 2 109.5'
29+106.8 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+33.8 1" DIA BUSH 45.5"	33+47.2 102" DECIDUOUS 2 109.5'
29+108.3 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+34.3 1" DIA BUSH 45.5"	33+47.7 104" DECIDUOUS 2 109.5'
29+109.8 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+34.8 1" DIA BUSH 45.5"	33+48.2 106" DECIDUOUS 2 109.5'
29+111.3 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+35.3 1" DIA BUSH 45.5"	33+48.7 108" DECIDUOUS 2 109.5'
29+112.8 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+35.8 1" DIA BUSH 45.5"	33+49.2 110" DECIDUOUS 2 109.5'
29+114.3 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+36.3 1" DIA BUSH 45.5"	33+49.7 112" DECIDUOUS 2 109.5'
29+115.8 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+36.8 1" DIA BUSH 45.5"	33+50.2 114" DECIDUOUS 2 109.5'
29+117.3 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+37.3 1" DIA BUSH 45.5"	33+50.7 116" DECIDUOUS 2 109.5'
29+118.8 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+37.8 1" DIA BUSH 45.5"	33+51.2 118" DECIDUOUS 2 109.5'
29+120.3 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+38.3 1" DIA BUSH 45.5"	33+51.7 120" DECIDUOUS 2 109.5'
29+121.8 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+38.8 1" DIA BUSH 45.5"	33+52.2 122" DECIDUOUS 2 109.5'
29+123.3 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+39.3 1" DIA BUSH 45.5"	33+52.7 124" DECIDUOUS 2 109.5'
29+124.8 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+39.8 1" DIA BUSH 45.5"	33+53.2 126" DECIDUOUS 2 109.5'
29+126.3 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+40.3 1" DIA BUSH 45.5"	33+53.7 128" DECIDUOUS 2 109.5'
29+127.8 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+40.8 1" DIA BUSH 45.5"	33+54.2 130" DECIDUOUS 2 109.5'
29+129.3 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+41.3 1" DIA BUSH 45.5"	33+54.7 132" DECIDUOUS 2 109.5'
29+130.8 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+41.8 1" DIA BUSH 45.5"	33+55.2 134" DECIDUOUS 2 109.5'
29+132.3 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+42.3 1" DIA BUSH 45.5"	33+55.7 136" DECIDUOUS 2 109.5'
29+133.8 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+42.8 1" DIA BUSH 45.5"	33+56.2 138" DECIDUOUS 2 109.5'
29+135.3 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+43.3 1" DIA BUSH 45.5"	33+56.7 140" DECIDUOUS 2 109.5'
29+136.8 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+43.8 1" DIA BUSH 45.5"	33+57.2 142" DECIDUOUS 2 109.5'
29+138.3 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+44.3 1" DIA BUSH 45.5"	33+57.7 144" DECIDUOUS 2 109.5'
29+139.8 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+44.8 1" DIA BUSH 45.5"	33+58.2 146" DECIDUOUS 2 109.5'
29+141.3 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+45.3 1" DIA BUSH 45.5"	33+58.7 148" DECIDUOUS 2 109.5'
29+142.8 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+45.8 1" DIA BUSH 45.5"	33+59.2 150" DECIDUOUS 2 109.5'
29+144.3 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+46.3 1" DIA BUSH 45.5"	33+59.7 152" DECIDUOUS 2 109.5'
29+145.8 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+46.8 1" DIA BUSH 45.5"	33+60.2 154" DECIDUOUS 2 109.5'
29+147.3 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+47.3 1" DIA BUSH 45.5"	33+60.7 156" DECIDUOUS 2 109.5'
29+148.8 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+47.8 1" DIA BUSH 45.5"	33+61.2 158" DECIDUOUS 2 109.5'
29+150.3 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+48.3 1" DIA BUSH 45.5"	33+61.7 160" DECIDUOUS 2 109.5'
29+151.8 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+48.8 1" DIA BUSH 45.5"	33+62.2 162" DECIDUOUS 2 109.5'
29+153.3 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+49.3 1" DIA BUSH 45.5"	33+62.7 164" DECIDUOUS 2 109.5'
29+154.8 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+49.8 1" DIA BUSH 45.5"	33+63.2 166" DECIDUOUS 2 109.5'
29+156.3 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+50.3 1" DIA BUSH 45.5"	33+63.7 168" DECIDUOUS 2 109.5'
29+157.8 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+50.8 1" DIA BUSH 45.5"	33+64.2 170" DECIDUOUS 2 109.5'
29+159.3 1" DIA BUSH 45.5"	32+70.2 12" DECIDUOUS 31.3'		32+70.2 12" DECIDUOUS 31.3'	33+51.3 1" DIA BUSH 45.5"	33+64.7 172" DECIDUOUS 2 109.5'
29+160.8 1" DIA BUSH 45.5"	32+87.3 SERVICESHUTOFF 39.6'		32+87.3 SERVICESHUTOFF 39.6'	33+51.8 1" DIA BUSH 45.5"	33+65.2 174" DECIDUOUS 2 109.5'
29+162.3 1" DIA BUSH 45.5"	31+10.5 14" DECIDUOUS 31.5'		31+10.5 14" DECIDUOUS 31.5'	33+52.3 1" DIA BUSH 45.5"	33+65.7 176" DECIDUOUS 2 109.5'
29+163.8 1" DIA BUSH 45.5"	31+50.9 13" DECIDUOUS 30.8'		31+50.9 13" DECIDUOUS 30.8'	33+52.8 1" DIA BUSH 45.5"	33+66.2 178" DECIDUOUS 2 109.5'
29+165.3 1" DIA BUSH 45.5"	31+81.3 12" DECIDUOUS 29.9'		31+81.3 12" DECIDUOUS 29.9'	33+53.3 1" DIA BUSH 45.5"	33+66.7 180" DECIDUOUS 2 109.5'
29+166.8 1" DIA BUSH 45.5"	32+43.8 12" DECIDUOUS 29.0'		32+43.8 12" DECIDUOUS 29.0'	33+53.8 1" DIA BUSH 45.5"	33+67.2 182" DECIDUOUS 2 109.5'
29+168.3 1" DIA BUSH 45.5"	32+51.7 U.P. W/UNDERGRD 119.0'		32+51.7 U.P. W/UNDERGRD 119.0'	33+54.3 1" DIA BUSH 45.5"	33+67.7 184" DECIDUOUS 2 109.5'
29+169.8 1" DIA BUSH 45.5"	32+51.8 FIRE HOSE CONN. 27.9'		32+51.8 FIRE HOSE CONN. 27.9'	33+54.8 1" DIA BUSH 45.5"	33+68.2 186" DECIDUOUS 2 109.5'
29+171.3 1" DIA BUSH 45.5"	32+57.3 15' DECIDUOUS 29.0'		32+57.3 15' DECIDUOUS 29.0'	33+55.3 1" DIA BUSH 45.	



9 STA 6+00.38, 14.7' RT
Dr Structure, 60 inch,
RIM 656.77
MATCH EX. 12" I.E. 651.14 SW
MATCH EX. 12" I.E. 646.50± NW
4" I.E. 652.94 SE
12" I.E. 652.25 NW

10 STA 6+18.70, 0.2' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 656.51
12" I.E. 652.34 SE

12 STA 8+01.13, 12.4' RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 656.64
12" I.E. 651.51 E & W

11 STA 8+01.61, 12.44 RT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 656.77
MATCH EX. 12" I.E. 651.09 NW
MATCH EX. 12" I.E. 651.19 W

13 STA 8+01.10, 26.50' LT
Dr Structure, 48 inch,
WITH 2' SUMP
RIM 655.79
12" I.E. 651.60 E

14 STA 9+12.00, 32.91' LT
Dr Structure, 48 inch,
WITH 2' SUMP AND GAS TRAP
RIM 657.31
12" I.E. 651.91 E
12" I.E. 653.42 S

PAVING LEGEND	
	Sidewalk, Conc, 4 inch
	Curb Ramp, Conc, 4 inch
	Curb Ramp, Conc, 8 inch
	Sidewalk, Conc, Decorative Colored, 4 inch
	Curb Ramp, Conc, Decorative Colored, 4 inch
	Curb Ramp, Conc, Decorative Color, 8 inch
	Pavement Repair (SEE DETAIL SHEET 9)
	Permeable Pavers
F-5 CONC. CURB & GUTTER	
	PROPOSED GRADE
	FLOW ARROW
	EXIST. GRADE
	E/M EDGE OF METAL
	T/C TOP CONC. CURB
	T/W TOP CONC. WALK
	G. TOP CONC. GUTTER
	P/E PAVEMENT ELEVATION

QUANTITY LIST (THIS SHEET)		
ITEM NO.	ITEM DESCRIPTION	QUANTITY UNIT
1.	Sewer, CL E, 12 inch, Tr Det B	54 Ft
2.	Dr Structure, Tap, 12 inch	2 Ea
3.	Dr Structure, 48 inch dia	5 Ea
4.	Dr Structure, 60 inch dia	1 Ea
5.	Dr Structure Cover, Storm	6 Ea
6.	Sewer Tap, 12 inch	7 Ea
7.	Water Serv, Copper, Type K, 1/2 inch	9 Ft
8.	Live Tap, 12 inch by 1/2 inch	1 Ea
9.	Sewer, PVC, Sch. 40, 4 inch	126 Ft



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Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES

PROJECT NAME:	
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

GRADING AND STORM SEWER PLAN

STA 34+00 TO STA 34+85
WOODWARD AVE AND
STA 5+00 TO STA 9+16 MAIN
STREET

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 0 10 20 40 1" = 20'		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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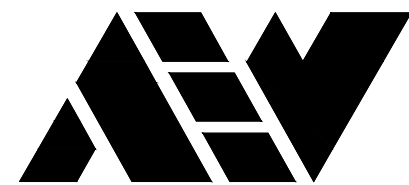
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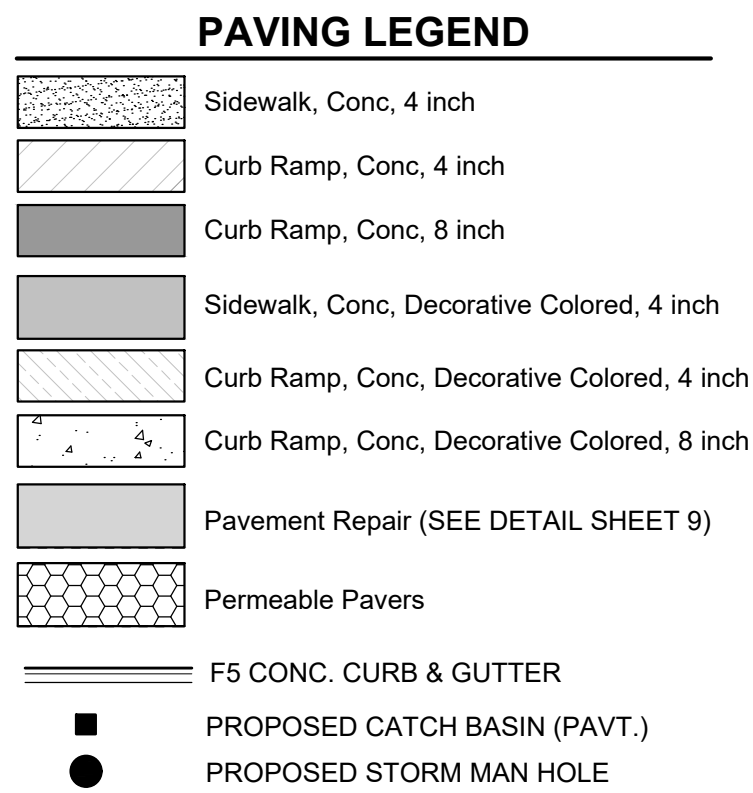
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SUBMITTALS/REVISIONS	
DATE	

SHEET TITLE

STA 20+30.11 TO STA 24+00

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DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 20'		



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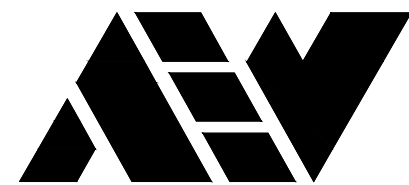
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ENGINEERING STRONG COMMUNITIES

PROJECT NAME:

SHEET TITLE

STA 24+00 TO STA 29+50

CLIENT: CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:		
<p style="text-align: center;">1" = 20'</p>		



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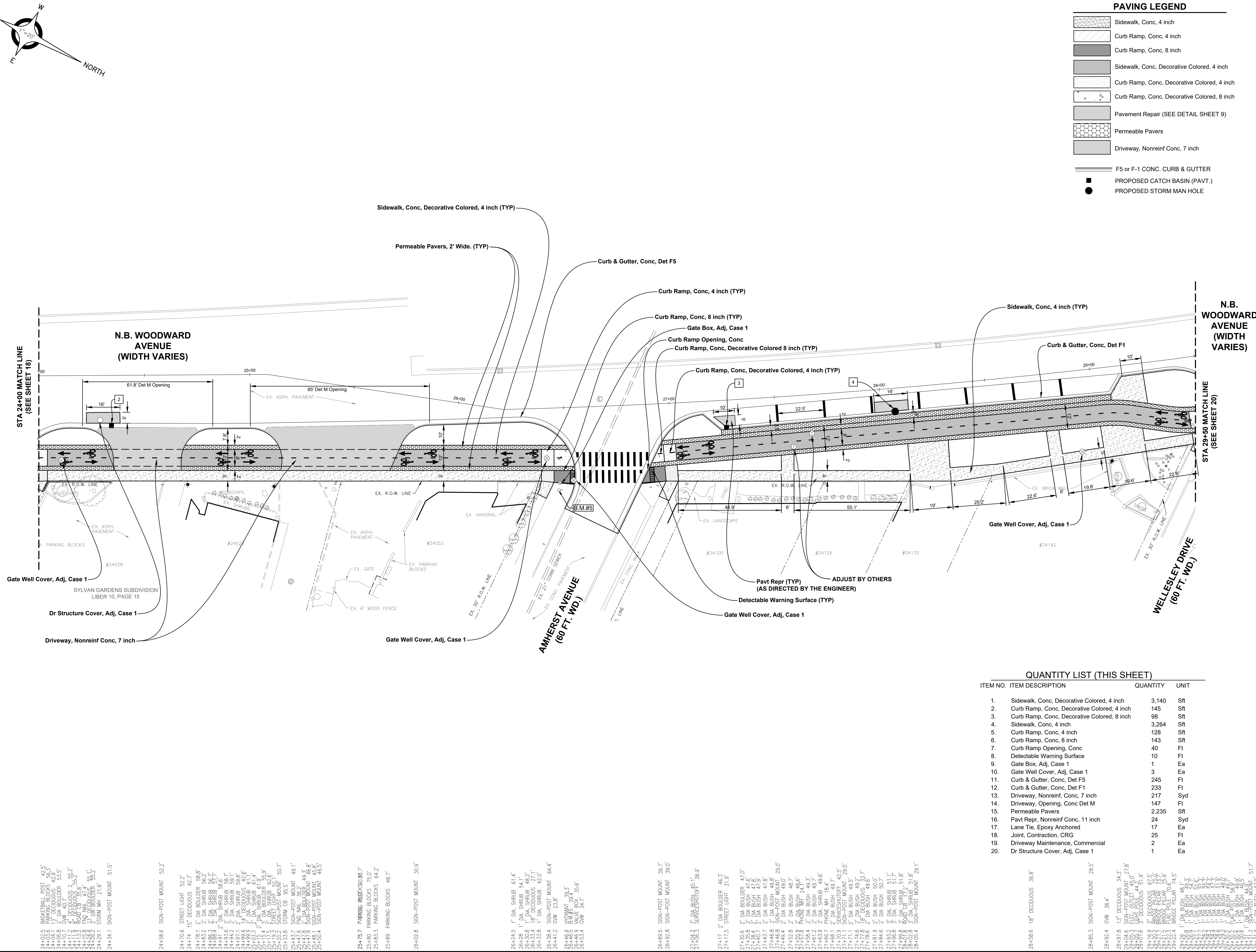
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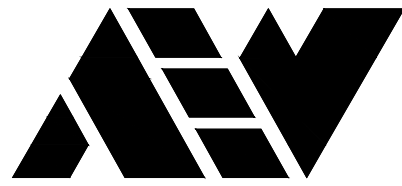
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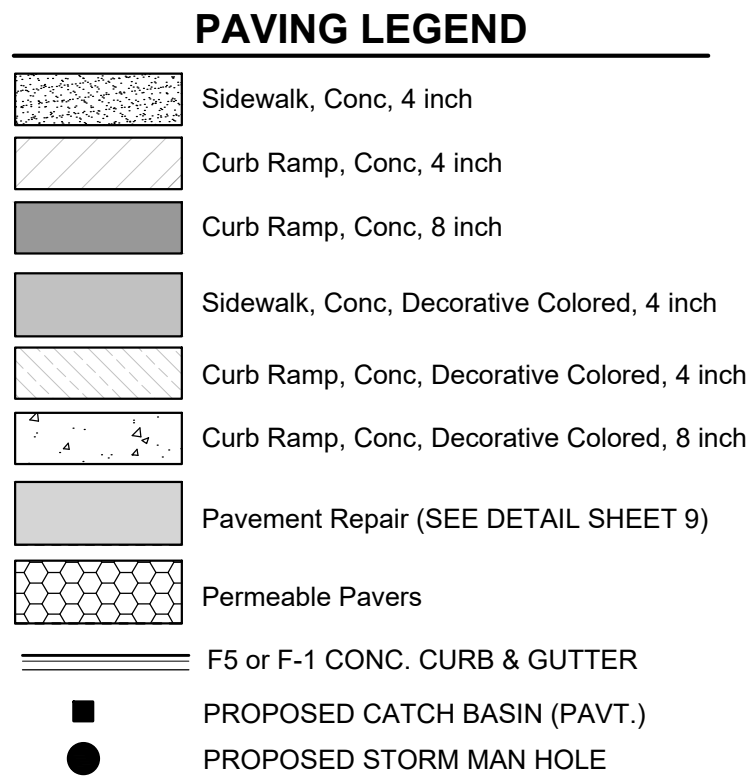




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QUANTITY LIST (THIS SHEET)			
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1.	Sidewalk, Conc. Decorative Colored, 4 inch	2,709	Sft
2.	Curb Ramp, Conc. Decorative Colored, 4 inch	164	Sft
3.	Curb Ramp, Conc. Decorative Colored, 8 inch	225	Sft
4.	Sidewalk, Conc. 4 inch	2,610	Sft
5.	Curb Ramp, Conc. 4 inch	150	Sft
6.	Curb Ramp, Conc. 8 inch	232	Sft
7.	Curb Ramp Opening, Conc.	92	Ft
8.	Detectable Warning Surface	25	Ft
9.	Gate Well Cover, Adj. Case 1	2	Ea
10.	Curb & Gutter, Conc, Det F1	366	Ft
11.	Curb & Gutter, Conc, Det F5	309	Ft
12.	Conc Pavt, Nonreinf, 9 inch	258	Syd
13.	Permeable Pavers	2,055	Sft
14.	Pavt Repr, Nonreinf Conc, 11 inch	30	Syd
15.	Lane Tie, Epoxy Anchored	19	Ea
16.	Joint, Contraction, CRG	25	Ft
17.	Joint, Expansion, ERG	108	Ft
18.	Joint, Contraction, C3P	147	Ft
19.	Intersection Maintenance	4	Ea
20.	Steps, Conc	4	Cyd
21.	Hydrant, Relocate, Case 2	1	Ea
22.	Water Main, DI, 6 inch, Tr Detail G	12	Ft

DATE		SUBMITTALS/REVISIONS	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

CONSTRUCTION PLAN


STA 29+50 TO STA 34+00

CLIENT: CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022

SCALE:

1" = 20'



A horizontal scale bar with tick marks at 0, 10, 20, and 40 feet. The bar is divided into segments: 0-10 is black, 10-20 is white, 20-30 is black, and 30-40 is white.



Know what's below. Call 800-4-A-DEPT. 72 hours before you dig.

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PROJECT NO. 0175-0115

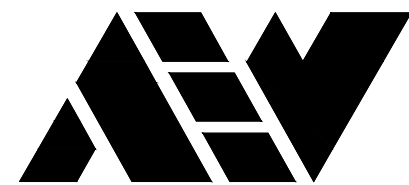
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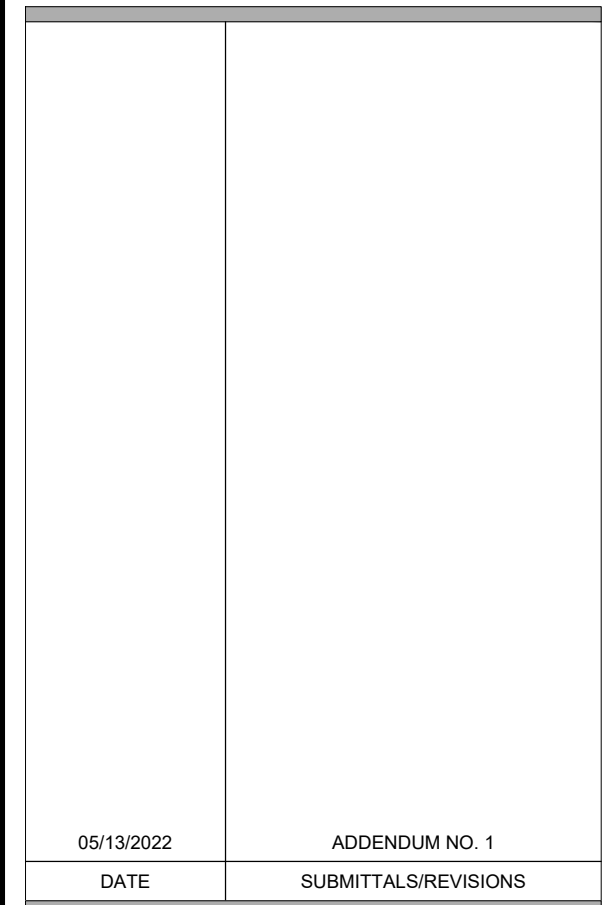
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SHEET TITLE:


STA 34+00 TO 34+85
WOODWARD AVENUE AND
STA 5+00 TO STA 9+16
MAIN STREET

CLIENT: CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022

SCALE:

1" = 20'



A horizontal scale bar with four segments. The first segment is black, the second is white, the third is black, and the fourth is white. Numerical labels 0, 10, 20, and 40 are placed above the bar at the start of each segment.



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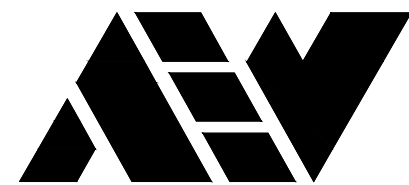
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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
WOODWARD AVENUE STREETSCAPE IMPROVEMENTS	
SHEET TITLE:	
CURB RAMP SCHEMATICS & DETAILED GRADES	
CLIENT:	
CITY OF PLEASANT RIDGE	
PRELIMINARY CONSTRUCTION RECORD	
DRAWN BY:	CHECKED BY:
NAC	MDS
DATE:	JANUARY 2022
SCALE:	
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WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

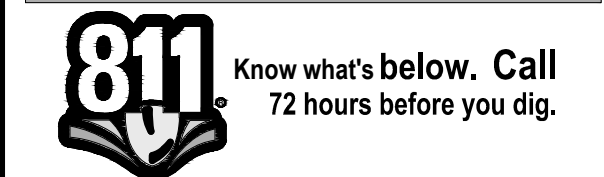
SHEET TITLE:

CURB RAMP SCHEMATICS & DETAILED GRADES

CLIENT:

CITY OF PLEASANT RIDGE

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:		
1" = 10'		
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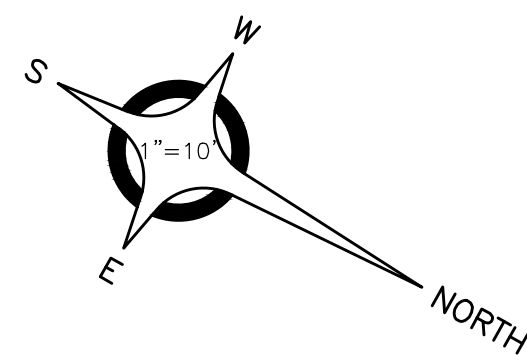
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VARIABLE DEPTH GUTTER TO
ACCOMADATE 0.4% POSITIVE DRAINAGE
WHILE MATCHING E/M GRADES
(FROM H.P. TO NORTH EDGE OF
SIDEWALK RAMP)

WOODWARD AVENUE (M-1)

Curb Ramp, Conc, 4 inch (TYP)

Curb Ramp, Conc, Decorative
Colored, 4 inch (TYP)

Sidewalk, Conc, Decorative Colored, 4 inch (TYP)

Curb Ramp, Conc,
Decorative Colored, 8 inch
(TYP)

RELOCATE BY DTE

Sidewalk, Conc, 4 inch (TYP)

Curb Ramp, Conc, 4 inch (TYP)

WOODWARD AVENUE (M-1)

Curb Ramp, Conc,
Decorative Colored, 8 inch
(TYP)

Curb Ramp, Conc,
Decorative Colored, 4 inch
(TYP)

Sidewalk, Conc, Decorative Colored, 4 inch (TYP)

Curb Ramp, Conc,
Decorative Colored, 4 inch
(TYP)

Sidewalk, Conc, Decorative
Colored, 4 inch (TYP)

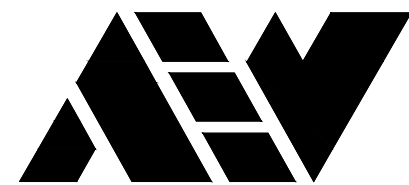
Curb Ramp, Conc, Decorative
Colored, 8 inch (TYP)

Curb Ramp, Conc, 8 inch (TYP)

Sidewalk, Conc, 4 inch (TYP)

Curb Ramp, Conc, 4 inch (TYP)

Curb Ramp, Conc, 4 inch (TYP)



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PROJECT NAME:	
DATE	
SUBMITTALS/REVISIONS	
PROJECT NAME:	
DATE	
SUBMITTALS/REVISIONS	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

CURB RAMP SCHEMATICS & DETAILED GRADES

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
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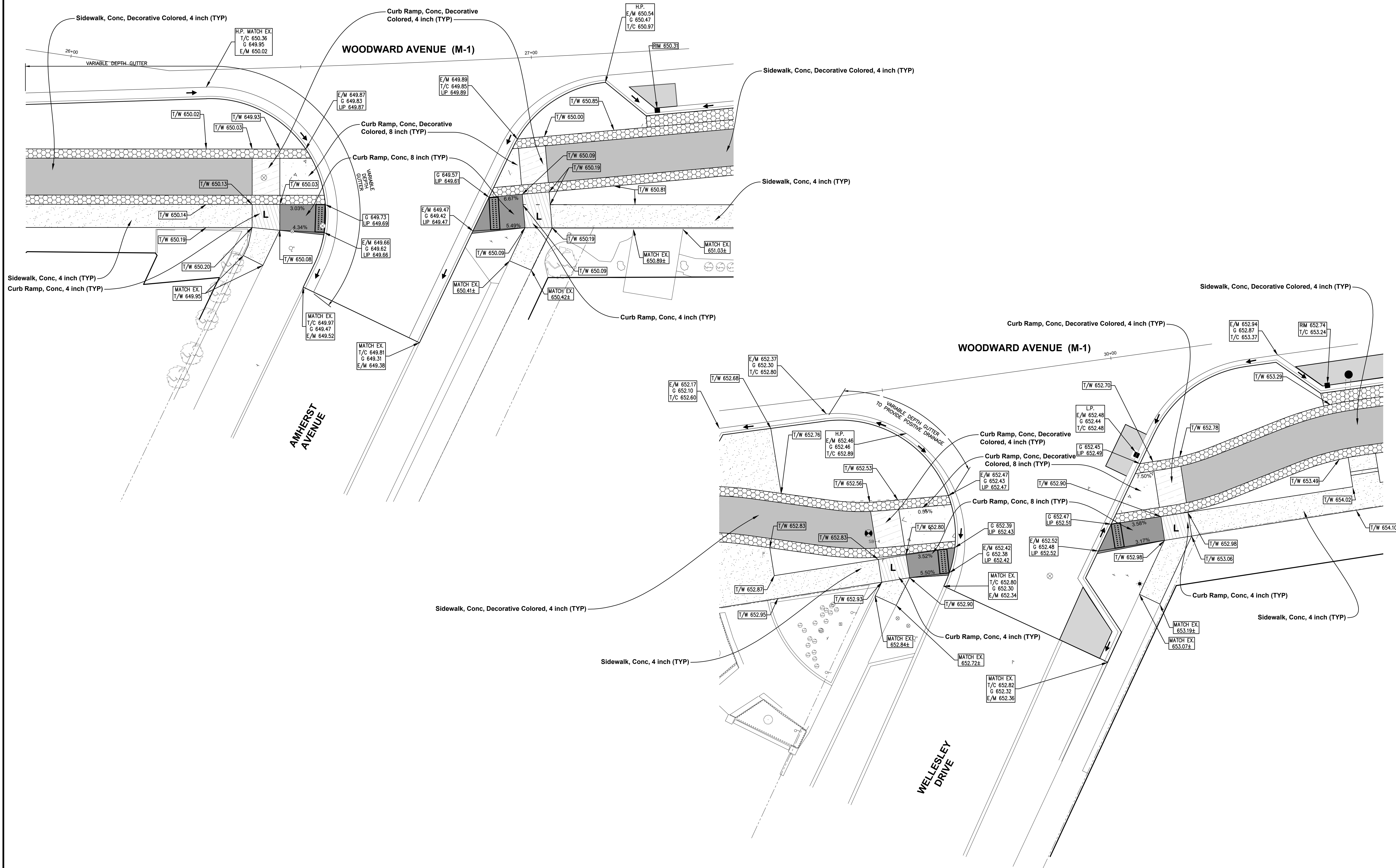
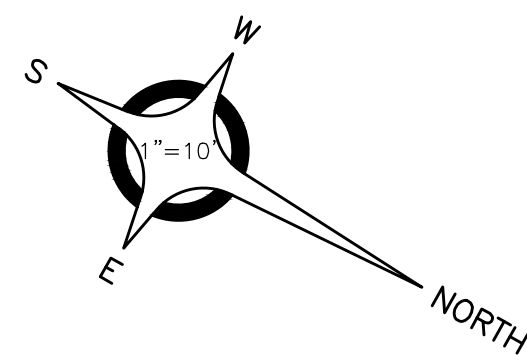
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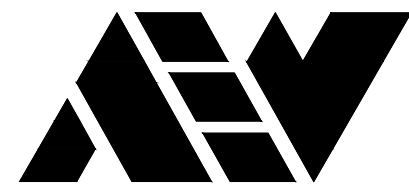
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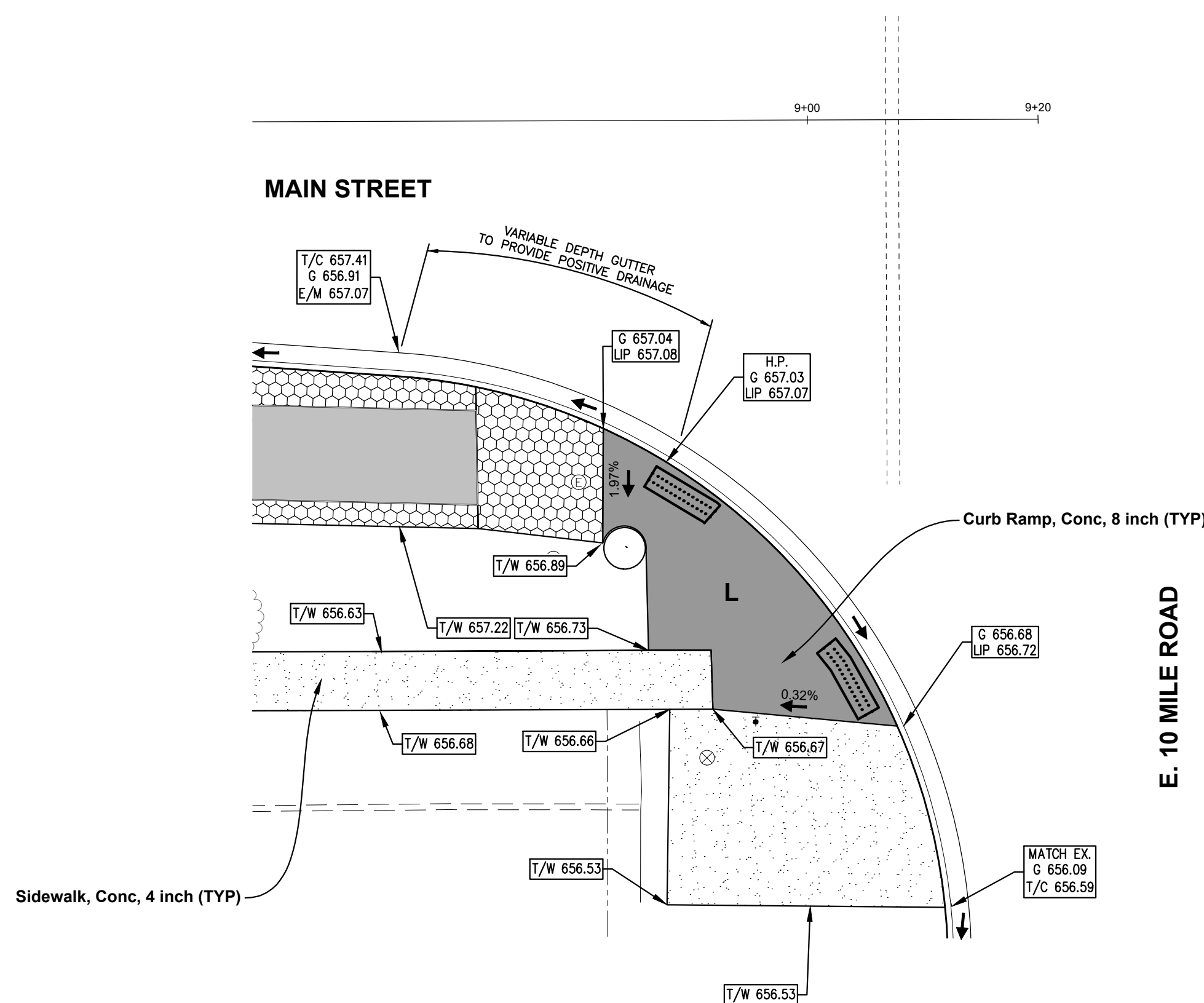
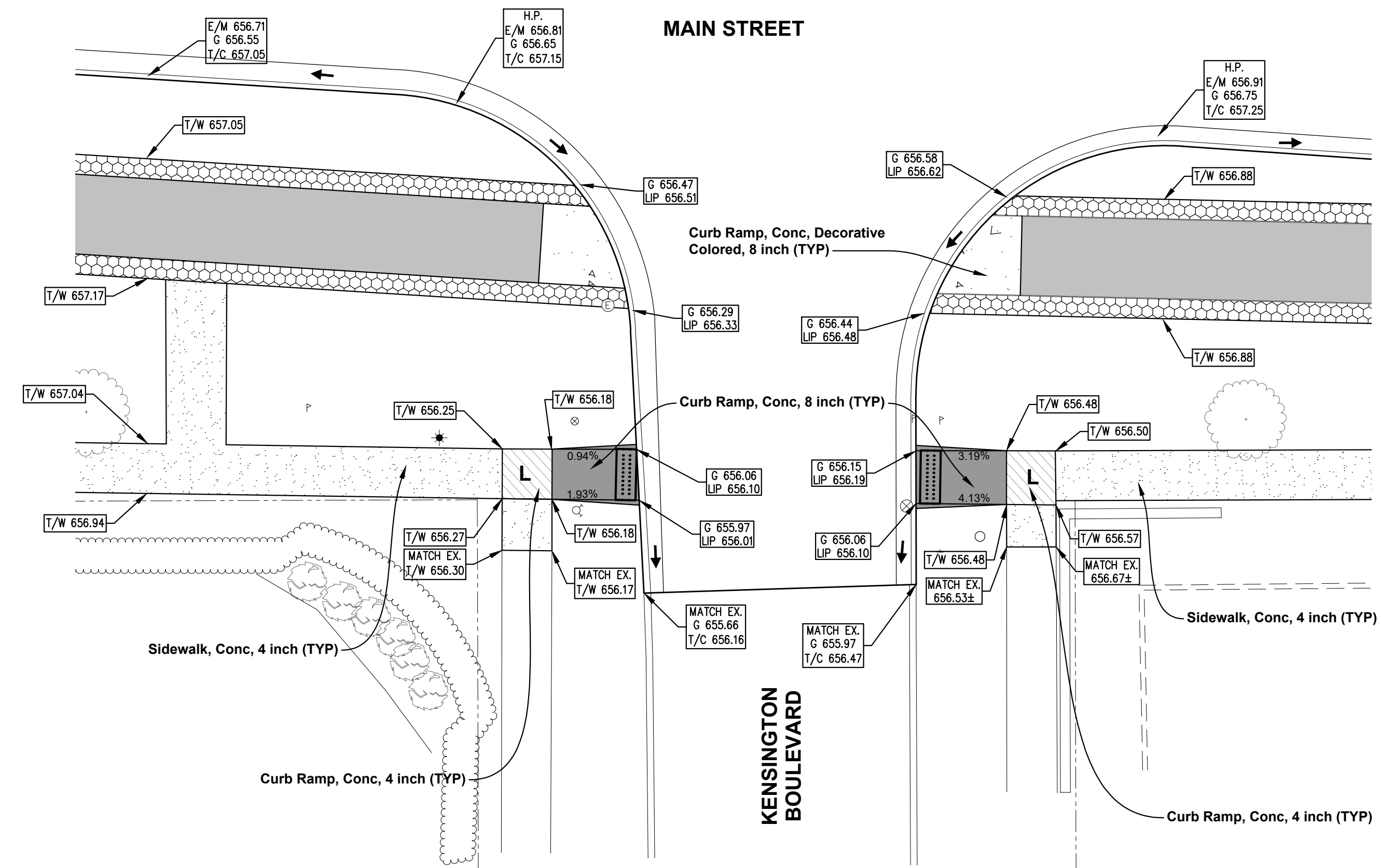
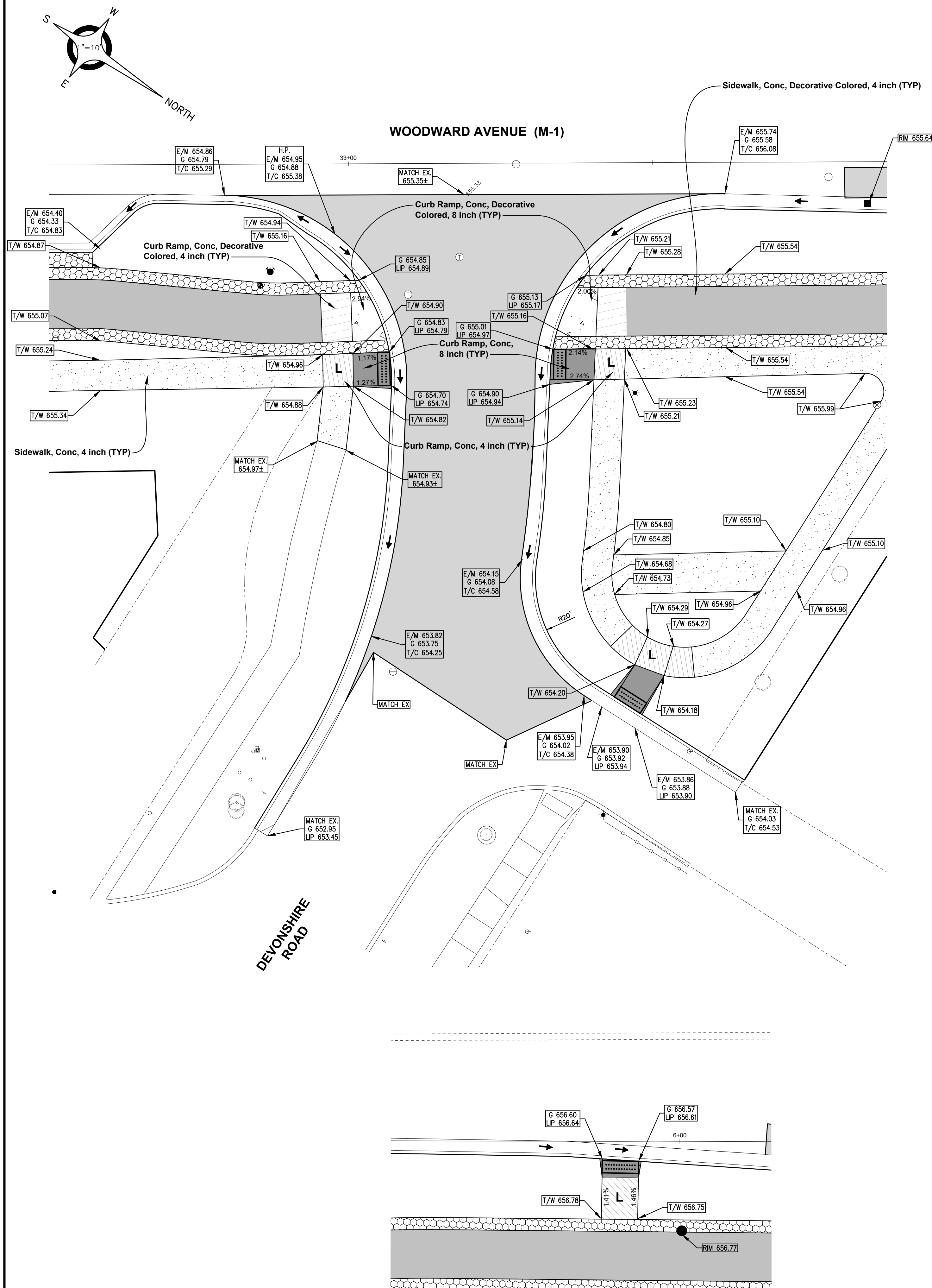
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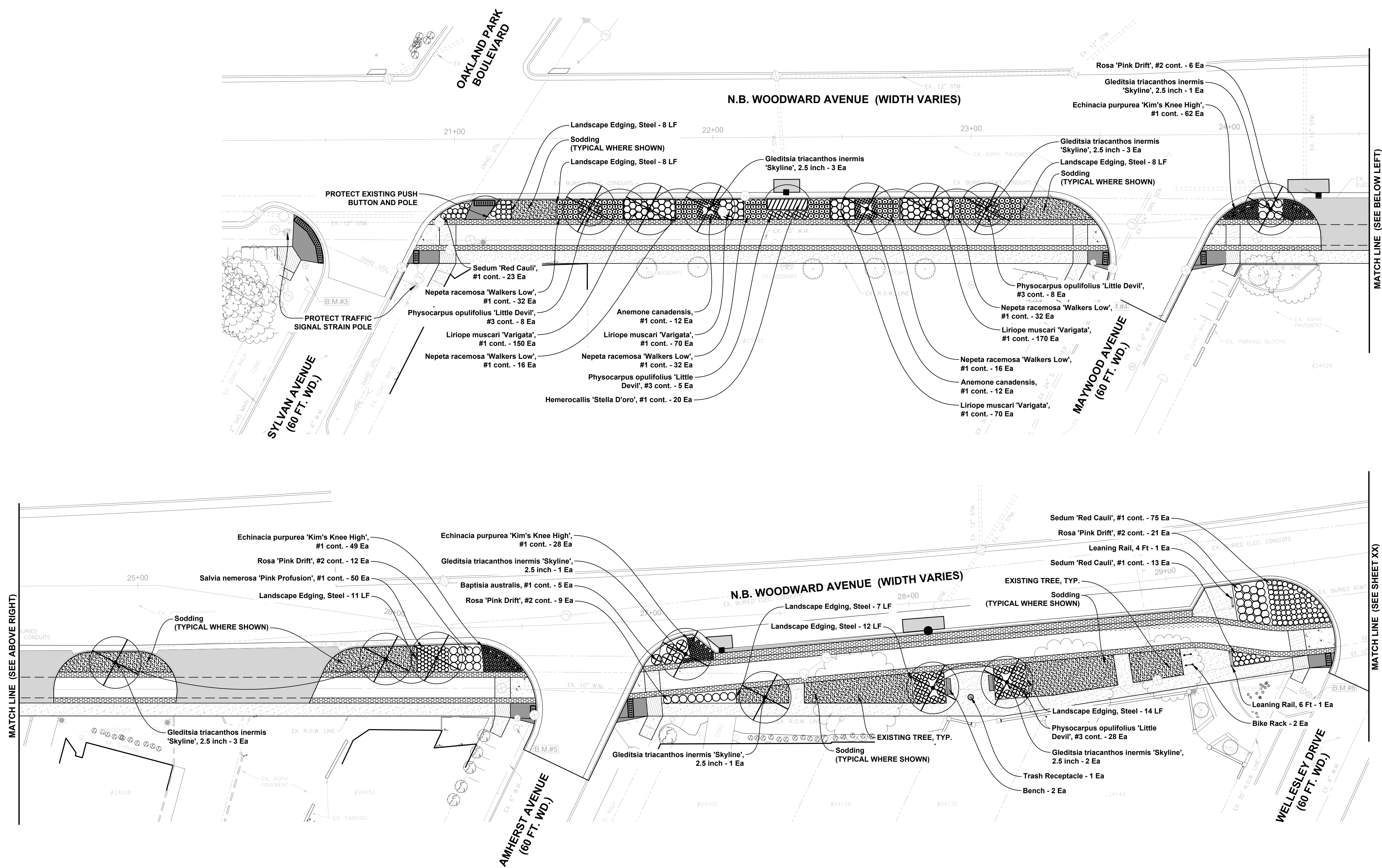
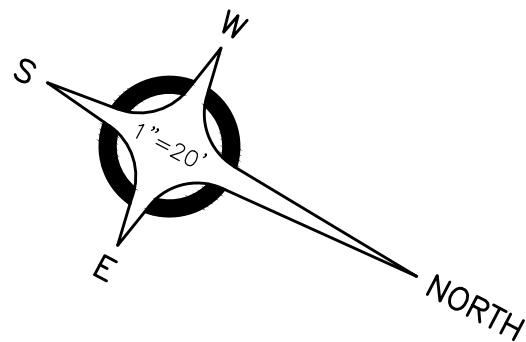
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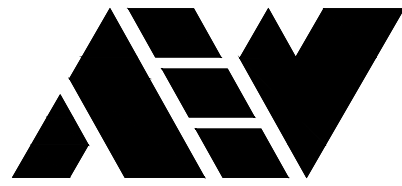




QUANTITY LIST

1. Sodding	235	Syd
2. Topsoil Surface, Furn, 3 inch	235	Syd
3. Hardwood Mulch, Furn, 4 inch	365	Syd
4. Prepared Soil	185	Cyd
5. Landscape Edging, Steel	68	Ft
6. Anemone canadensis, #1 Cont.	24	Ea
7. Baptisia australis, #1 Cont.	5	Ea
8. Echinacea purpurea 'Kim's Knee High', #1 Cont.	139	Ea
9. Gleditsia triacanthos inermis 'Skyline', 2.5 inch	14	Ea
10. Hemerocallis 'Stella D'Oro', #1 Cont.	20	Ea
11. Liriope muscari 'Variegata', #1 Cont.	460	Ea
12. Nepeta racemosa 'Walkers Low', #1 Cont.	128	Ea
13. Physocarpus opulifolius 'Little Devil', #3 Cont.	49	Ea
14. Rosa 'Pink Drift', #2 Cont.	48	Ea
15. Salvia nemerosa 'Pink Profusion', #1 Cont.	50	Ea
16. Sedum 'Red Cauli', #1 Cont.	111	Ea
17. Bench	2	Ea
18. Trash Receptacle	1	Ea
19. Bike Rack	2	Ea
20. Leaning Rail, 6 Foot	1	Ea
21. Leaning Rail, 4 Foot	1	Ea

NOTES:
1. ALL PROPOSED LANDSCAPING AT DRIVEWAYS AND APPROACHES HAS BEEN SELECTED SO THAT IT IS LESS THAN THREE FEET TALL FOR ADEQUATE SIGHT DISTANCE.



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CIVIL ENGINEERS SURVEYORS ARCHITECTS

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Shelby Township Fax 586 726 8780
Michigan 48315

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ENGINEERING STRONG COMMUNITIES

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DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

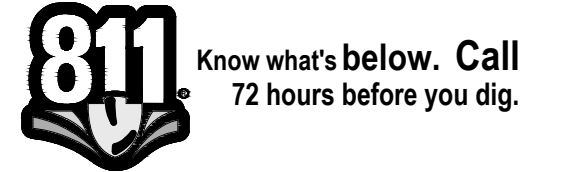
WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

SHEET TITLE:

LANDSCAPE
PLAN
SYLVAN TO WELLESLEY

CLIENT:
CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
		MAY 2022
SCALE:		
1" = 20'		
0 10 20 40		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

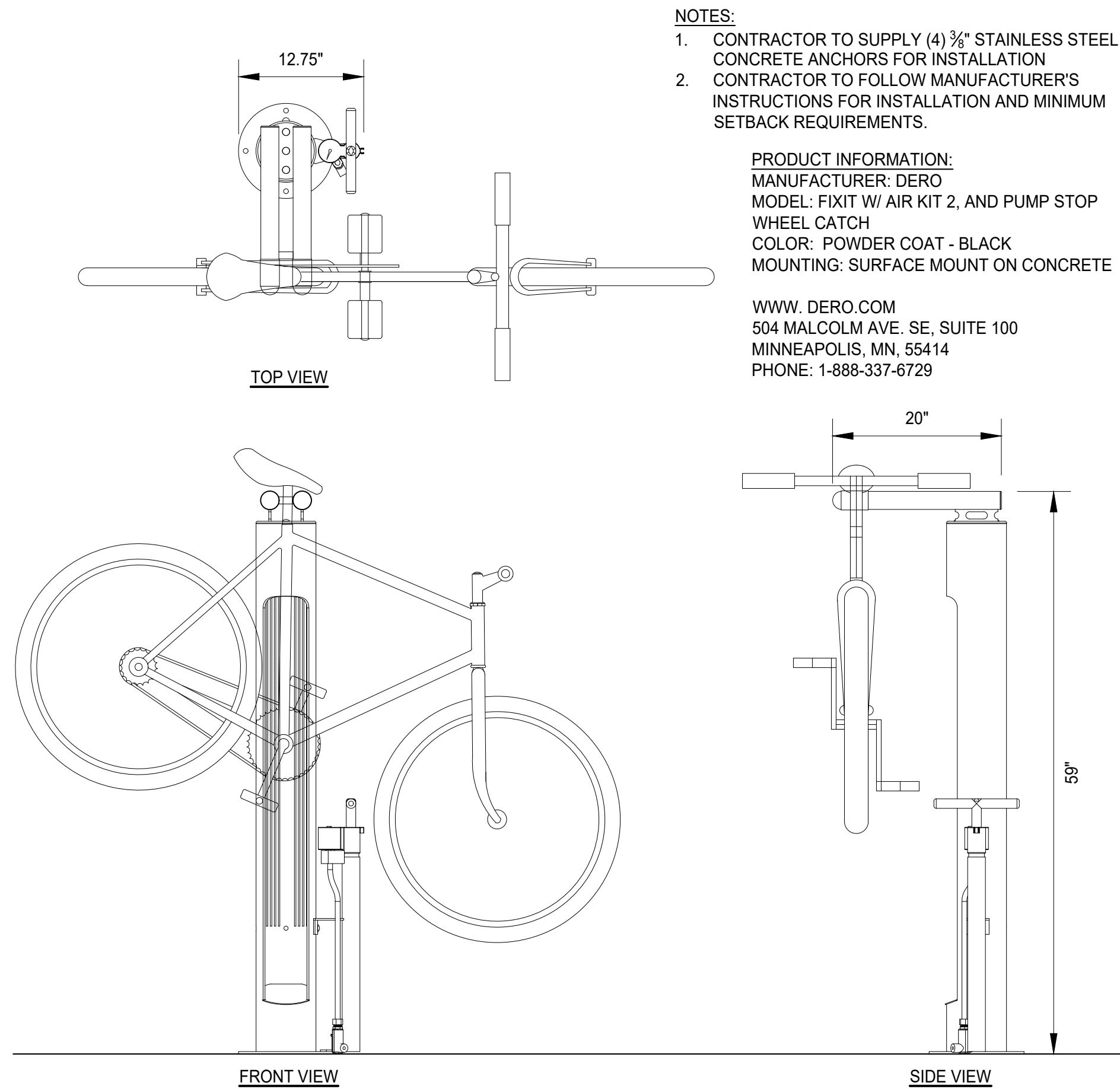
PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.
0175-0115

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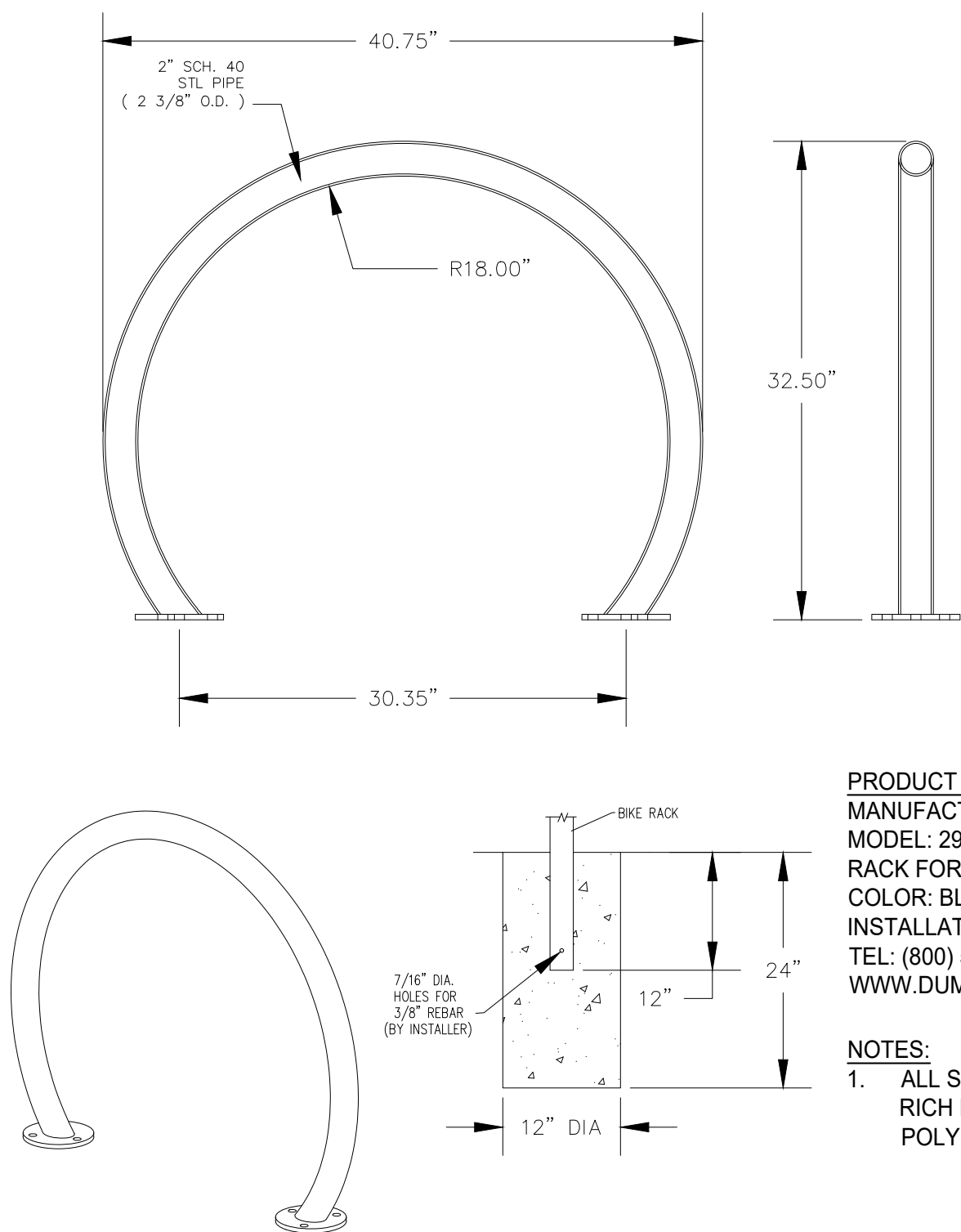
SHEET NO.



- NOTES:
1. CONTRACTOR TO SUPPLY (4) 3/8" STAINLESS STEEL CONCRETE ANCHORS FOR INSTALLATION
 2. CONTRACTOR TO FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND MINIMUM SETBACK REQUIREMENTS.

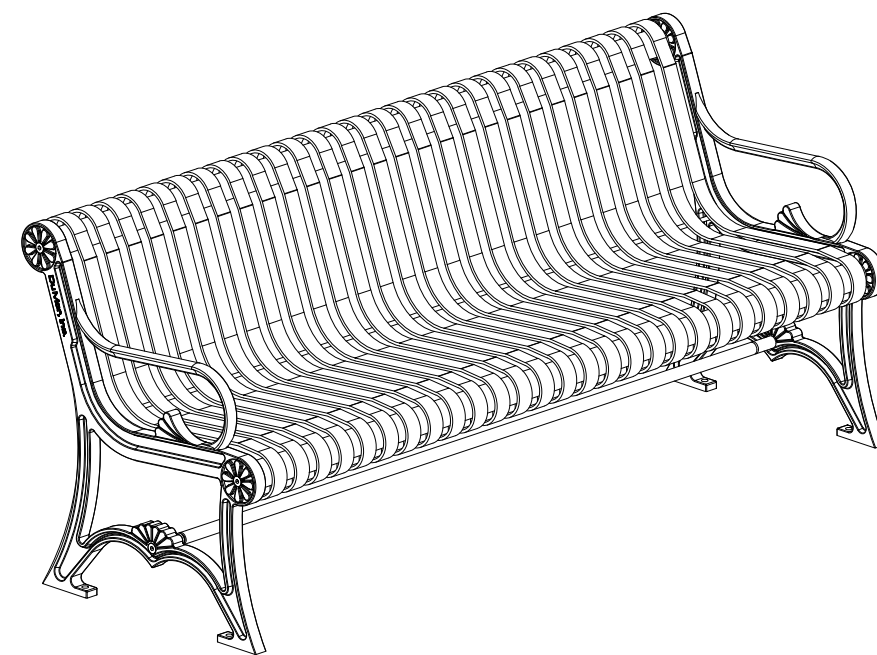
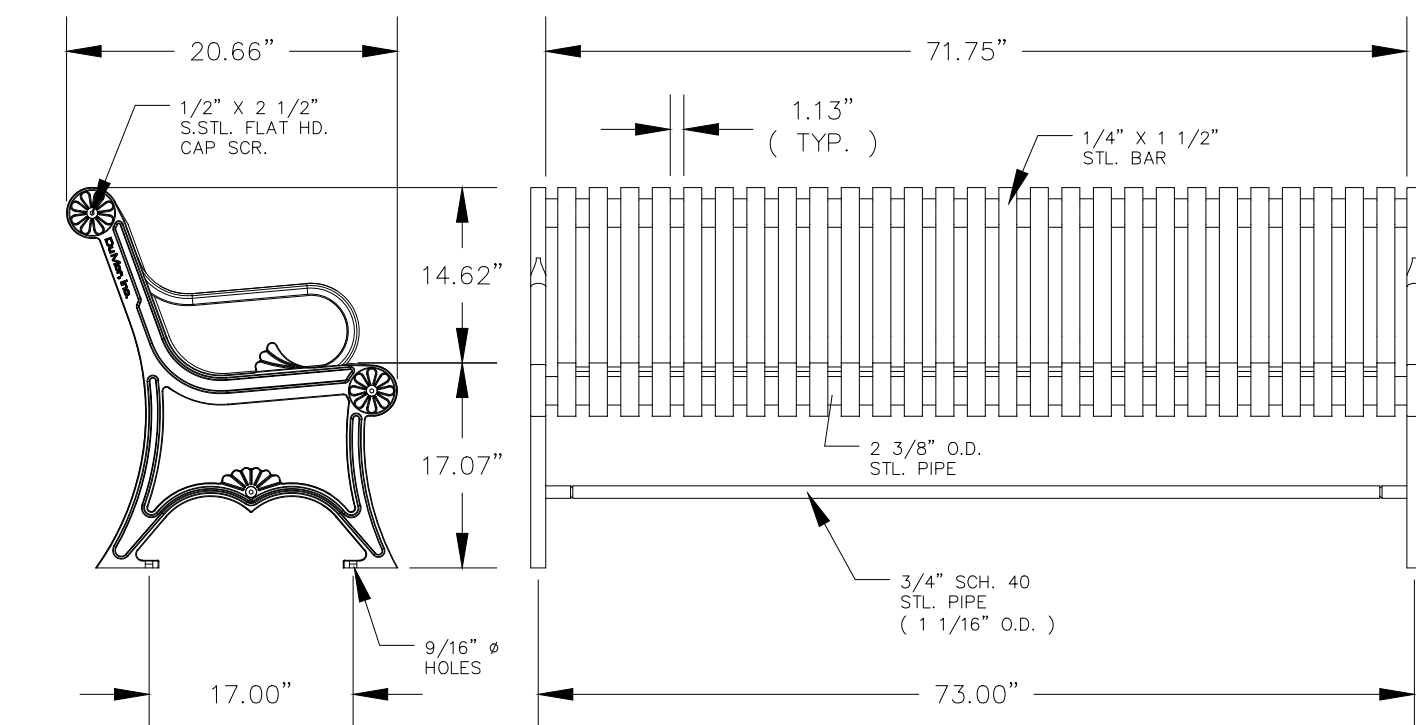
PRODUCT INFORMATION:
MANUFACTURER: DERO
MODEL: FIXIT W/ AIR KIT 2, AND PUMP STOP
WHEEL CATCH
COLOR: POWDER COAT - BLACK
MOUNTING: SURFACE MOUNT ON CONCRETE

WWW.DERO.COM
504 MALCOLM AVE. SE, SUITE 100
MINNEAPOLIS, MN, 55414
PHONE: 1-888-337-6729



PRODUCT INFORMATION
MANUFACTURER: DuMor
MODEL: 292-00/S-2, POWDER COATED BIKE
RACK FOR EMBEDMENT MOUNT
COLOR: BLACK POWDER COATED
INSTALLATION: SURFACE MOUNT
TEL: (800) 598-4018
WWW.DUMOR.COM

- NOTES:
1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COAT



PRODUCT INFORMATION
MANUFACTURER: DuMor
MODEL: 58-60, 6', CAST STEEL BENCH, STEEL SEAT
COLOR: BLACK POWDER COATED
INSTALLATION: SURFACE MOUNT
TEL: (800) 598-4018
WWW.DUMOR.COM

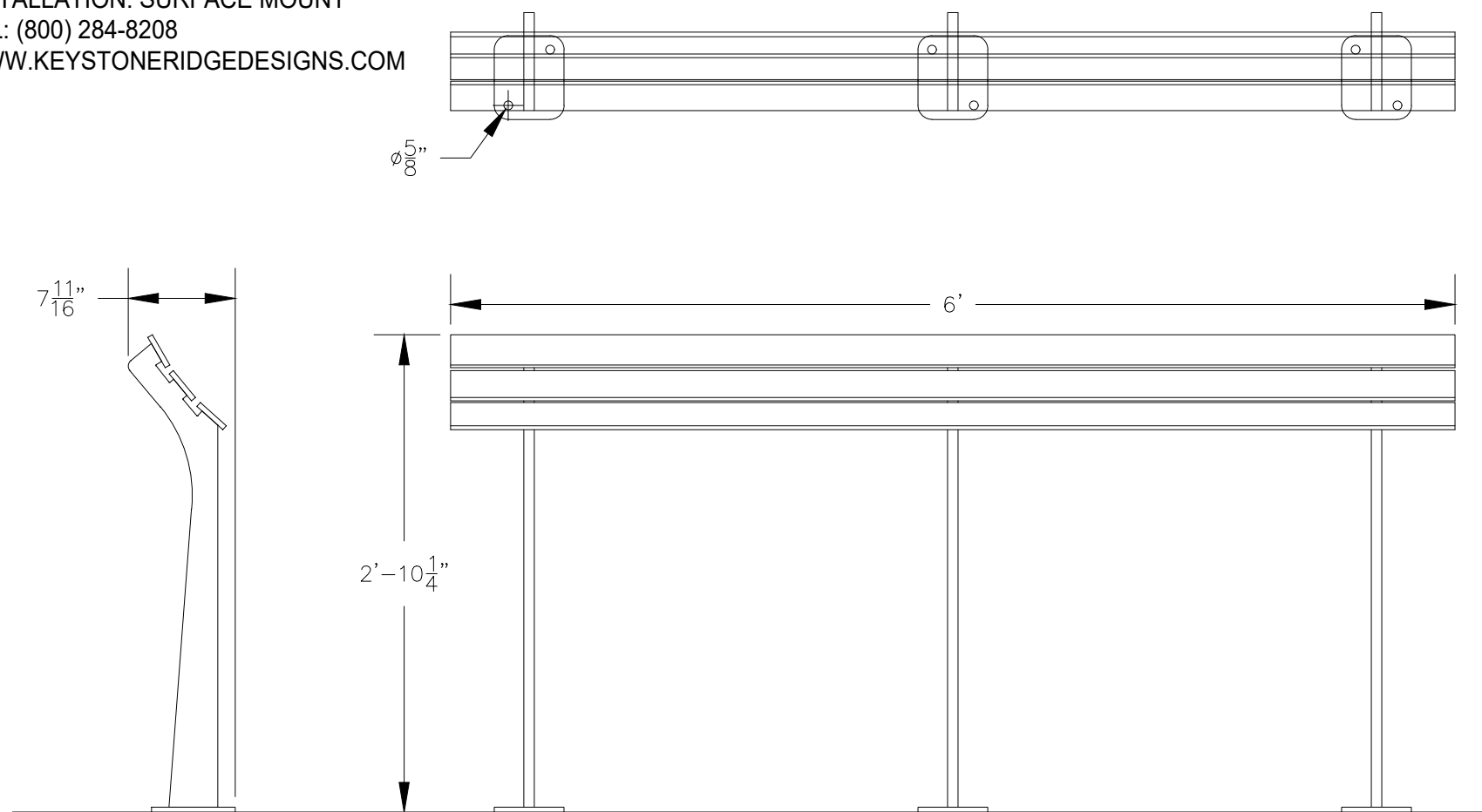
- NOTES:
1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COAT
 2. 1/2" X 3 - 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

BENCH - DETAIL

SCALE: 1" = 1'

- NOTES:
1. INSTALL SECURELY TO CONCRETE SURFACE PER MANUFACTURER'S INSTRUCTIONS
 2. PRODUCT DELIVERED FULLY ASSEMBLED
 3. SURFACE MOUNTING HARDWARE IS NOT INCLUDED WITH LEANING RAIL. CONTRACTOR TO PROVIDE STAINLESS STEEL HARDWARE FOR INSTALLATION SIZED ACCORDING TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
 4. POLYESTER COATING SHALL BE "KEYSHIELD" POLYESTER POWDER COATING FINISH AS PROVIDED BY KEYSTONE RIDGE DESIGNS

PRODUCT INFORMATION
MANUFACTURER: KEYSTONE RIDGE DESIGNS
MODEL: CSL6, CARSON LEANING RAIL - 6 FOOT
COLOR: POLYESTER POWDER COAT - GLOSS BLACK
INSTALLATION: SURFACE MOUNT
TEL: (800) 284-8208
WWW.KEYSTONERIDGEDESIGNS.COM

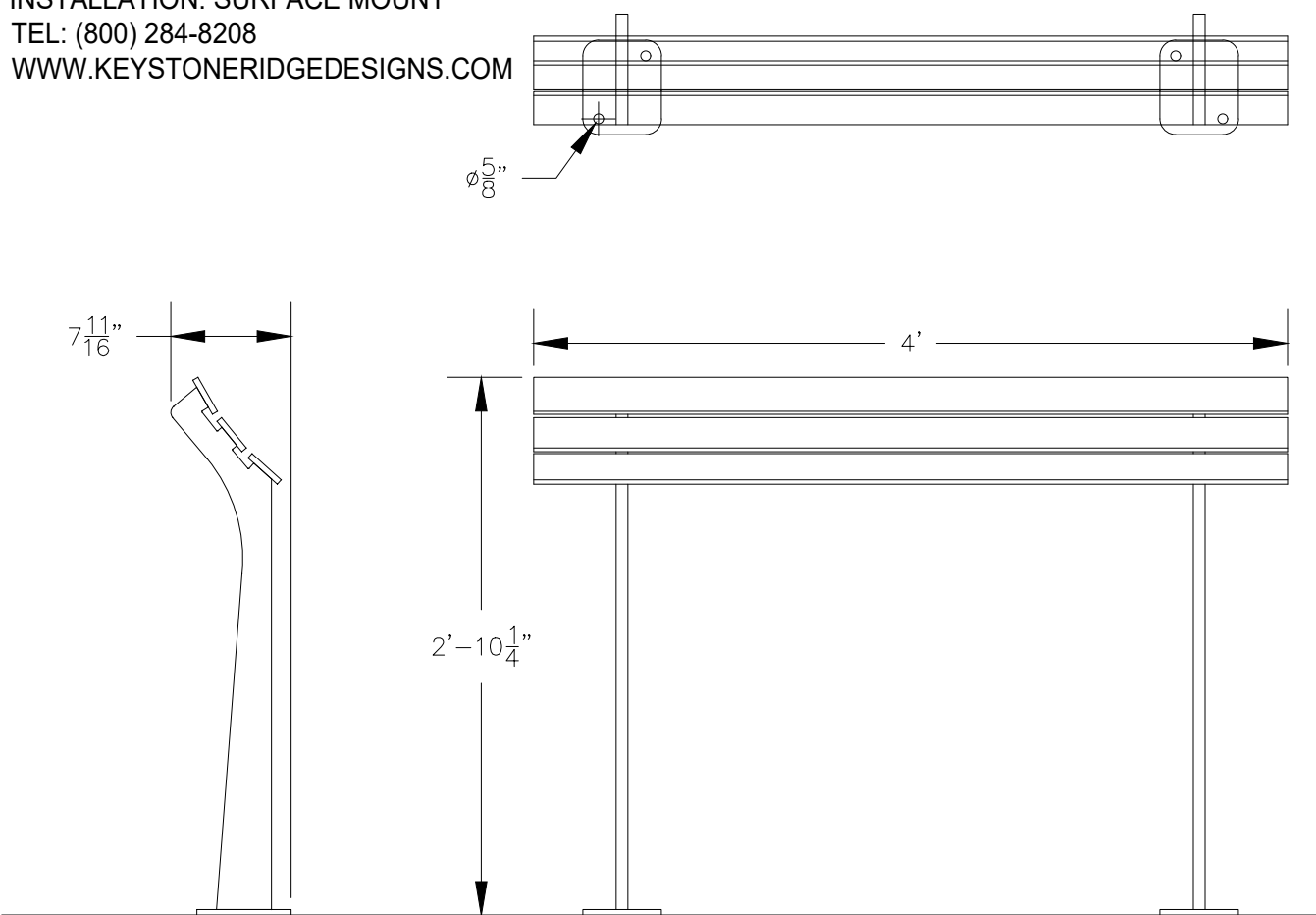


LEANING RAIL, 6 FOOT - DETAIL

SCALE: 1" = 1'

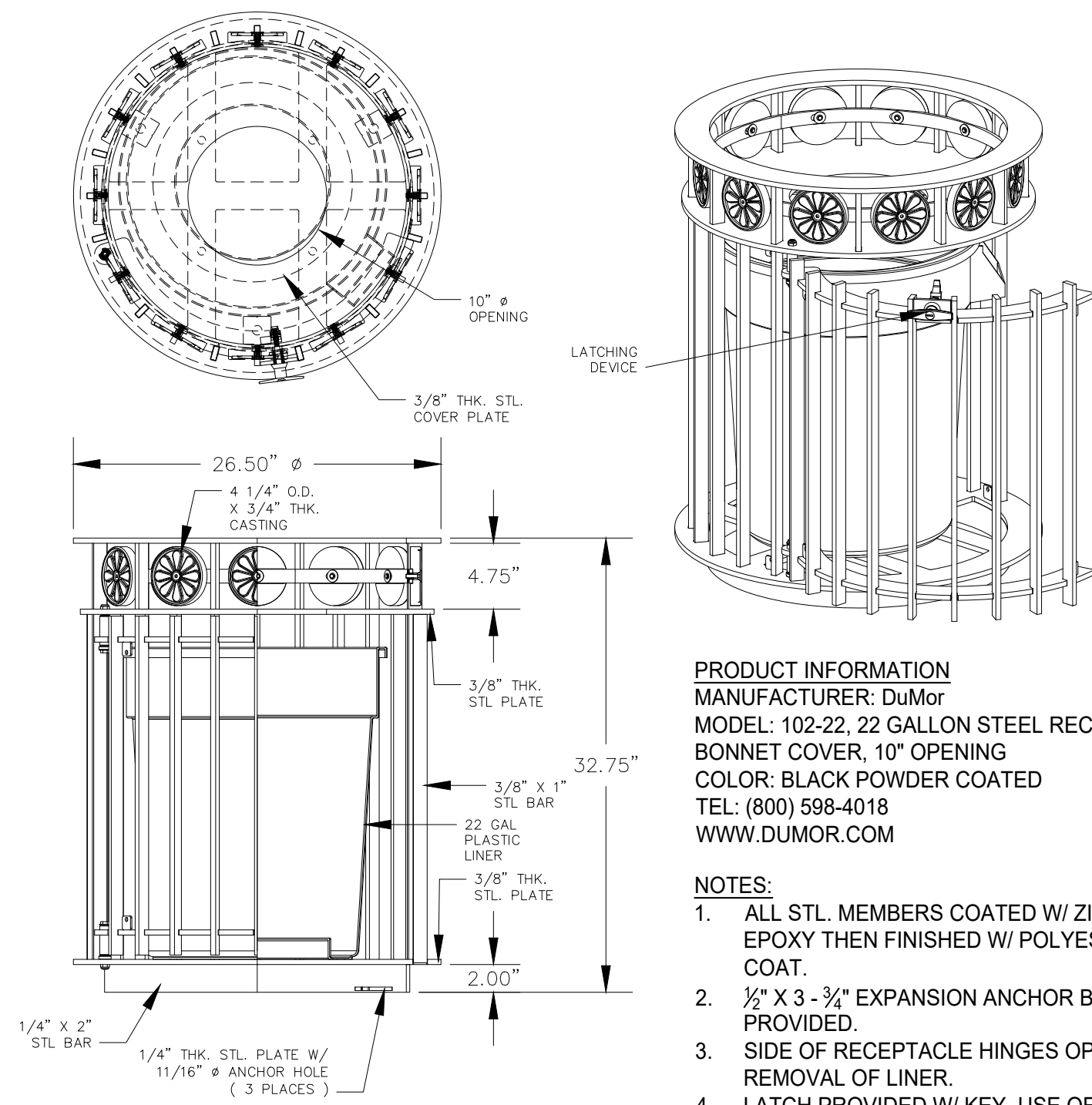
- NOTES:
1. INSTALL SECURELY TO CONCRETE SURFACE PER MANUFACTURER'S INSTRUCTIONS
 2. PRODUCT DELIVERED FULLY ASSEMBLED
 3. SURFACE MOUNTING HARDWARE IS NOT INCLUDED WITH LEANING RAIL. CONTRACTOR TO PROVIDE STAINLESS STEEL HARDWARE FOR INSTALLATION SIZED ACCORDING TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
 4. POLYESTER COATING SHALL BE "KEYSHIELD" POLYESTER POWDER COATING FINISH

PRODUCT INFORMATION
MANUFACTURER: KEYSTONE RIDGE DESIGNS
MODEL: CSL4, CARSON LEANING RAIL - 4 FOOT
COLOR: POLYESTER POWDER COAT - GLOSS BLACK
INSTALLATION: SURFACE MOUNT
TEL: (800) 284-8208
WWW.KEYSTONERIDGEDESIGNS.COM



LEANING RAIL, 4 FOOT - DETAIL

SCALE: 1" = 1'

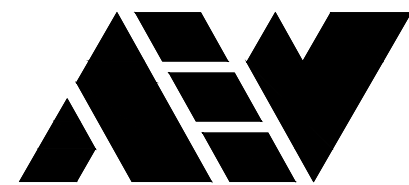


PRODUCT INFORMATION
MANUFACTURER: DuMor
MODEL: 102-22, 22 GALLON STEEL RECEPTACLE W/ BT
BONNET COVER, 10" OPENING
COLOR: BLACK POWDER COATED
TEL: (800) 598-4018
WWW.DUMOR.COM

- NOTES:
1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COAT.
 2. 1/2" X 3 - 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
 3. SIDE OF RECEPTACLE HINGES OPEN FOR REMOVAL OF LINER.
 4. LATCH PROVIDED W/ KEY, USE OF KEY OPTIONAL.
 5. RECEPTACLE FULLY ASSEMBLED AT FACTORY.

TRASH RECEPTACLE - DETAIL

SCALE: 1" = 1'



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DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
WOODWARD AVENUE STREETSCAPE IMPROVEMENTS	
SHEET TITLE:	
LANDSCAPE PLAN DETAILS	
CLIENT: CITY OF PLEASANT RIDGE	
<input checked="" type="checkbox"/> PRELIMINARY <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> RECORD	
DRAWN BY:	CHECKED BY: DATE:
SCALE: no scale 0 0 0 0	



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PROJECT NO.

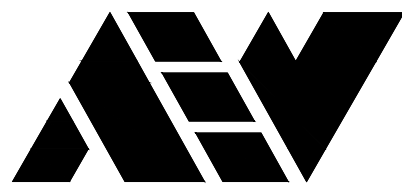
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DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE:

LANDSCAPE PLAN DETAILS

CLIENT:
CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
		MAY 2022
SCALE:		
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PROJECT NO.

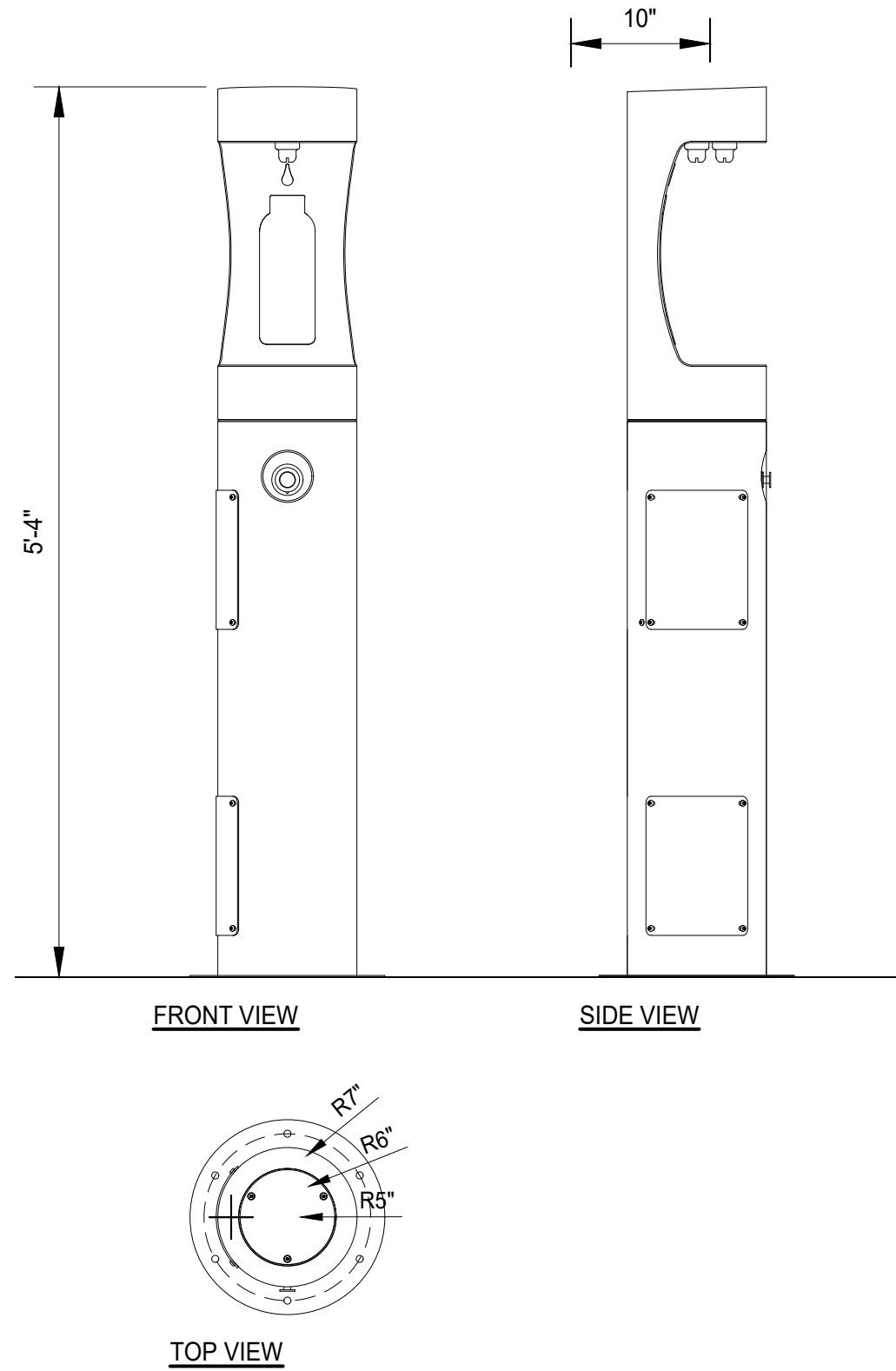
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CLIENT:ANDERSON, ECKSTEIN AND WESTRICK, INC. (DRAWING)ANDERSON, ECKSTEIN AND WESTRICK, INC. (LANDSCAPE PLAN)REVISED DURING 28 Details-2-9/6/2022 3:40:11 PM

SHEET NO.

28

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NOTES:

1. SEE CIVIL ENGINEERING DRAWINGS FOR WATER SUPPLY AND DRAINAGE DETAILS
2. ASSEMBLE AND INSTALL BOTTLE FILLING STATION PER MANUFACTURER'S INSTRUCTIONS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION FOR IMPORTANT NOTES AND DETAILS.
3. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES.
4. SURFACE MOUNTING HARDWARE IS NOT INCLUDED WITH BOTTLE FILLING STATION. CONTRACTOR TO PROVIDE STAINLESS STEEL HARDWARE FOR INSTALLATION SIZED ACCORDING TO MANUFACTURER'S INSTALLATION SPECIFICATIONS.
5. UNIT IS NOT FURNISHED WITH SERVICE VALVE.
6. TRAP AND SERVICE STOP NOT INCLUDED.

PRODUCT INFORMATION:

MANUFACTURER: ELKAY
MODEL: LK4400BFFRK
COLOR: BLACK
MOUNTING: SURFACE MOUNT (SEE MANUFACTURER'S INSTRUCTIONS FOR MOUNTING, PLUMBING, AND SITE PREPARATION DETAILS)

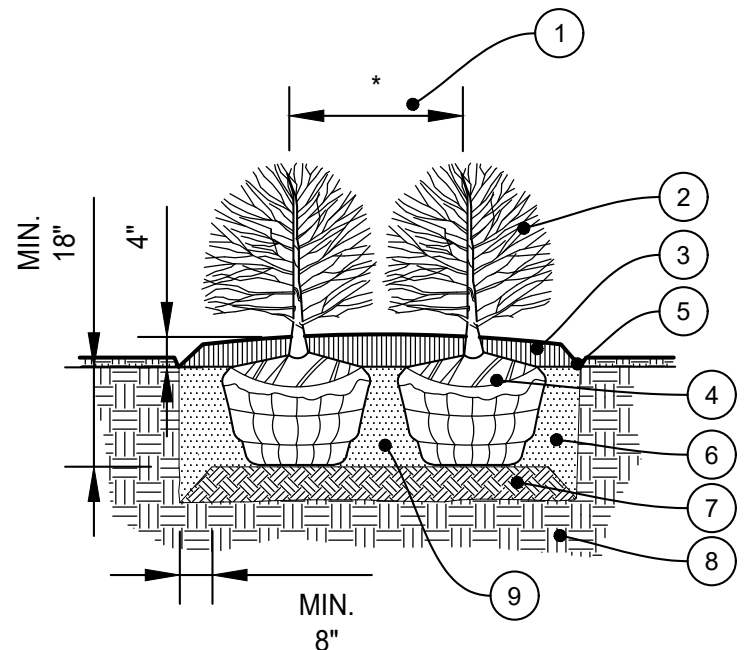
WWW.ELKAY.COM
2222 CAMDEN COURT
OAK BROOK, IL, 60523
PHONE: 630-572-3192

BOTTLE FILLING STATION - DETAIL

SCALE: 1" = 1'

NOTES:

1. ALL WORK FOR INSTALLATION TREES SHALL BE ACCORDING TO MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 815.03, UNLESS NOTED OTHERWISE.
2. ALL NURSERY STOCK AND PLANTING MATERIALS SHALL MEET THE REQUIREMENTS OF MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 917 WHERE APPLICABLE.
3. ENGINEER SHALL APPROVE PLACEMENT AND FINAL LOCATION OF PLANTS PRIOR TO FINAL INSTALLATION BY CONTRACTOR



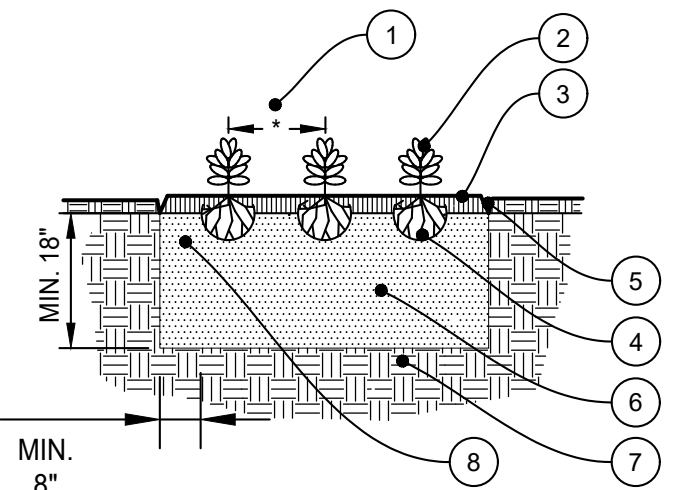
SHRUB PLANTING DETAIL

NO SCALE

- 1 SEE PLAN FOR LOCATION, SPACING, AND QUANTITIES
- 2 NURSERY STOCK
- 3 SHREDDED BARK MULCH 4" DEPTH, TYP.
- 4 SET ROOTBALL, BACKFILL, AND REMOVE BURLAP & TWINE PER 2020 STANDARD SPECIFICATION. REMOVE CONTAINER GROWN STOCK FROM CONTAINER BEFORE PLANTING IF APPLICABLE
- 5 STEEL LANDSCAPE EDGING, OR PAVEMENT (SEE PLAN)
- 6 PREPARED SOIL (SEE SPECIAL PROVISIONS)
- 7 COMPACTED SOIL UNDER ROOTBALL
- 8 EXISTING SUBGRADE OR ENGINEERED BACKFILL
- 9 8" MIN. BETWEEN ROOTBALL AND EDGE OF PLANT PIT

NOTES:

1. ALL WORK FOR INSTALLATION TREES SHALL BE ACCORDING TO MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 815.03, UNLESS NOTED OTHERWISE.
2. ALL NURSERY STOCK AND PLANTING MATERIALS SHALL MEET THE REQUIREMENTS OF MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 917 WHERE APPLICABLE.
3. ENGINEER SHALL APPROVE PLACEMENT AND FINAL LOCATION OF PLANTS PRIOR TO FINAL INSTALLATION BY CONTRACTOR



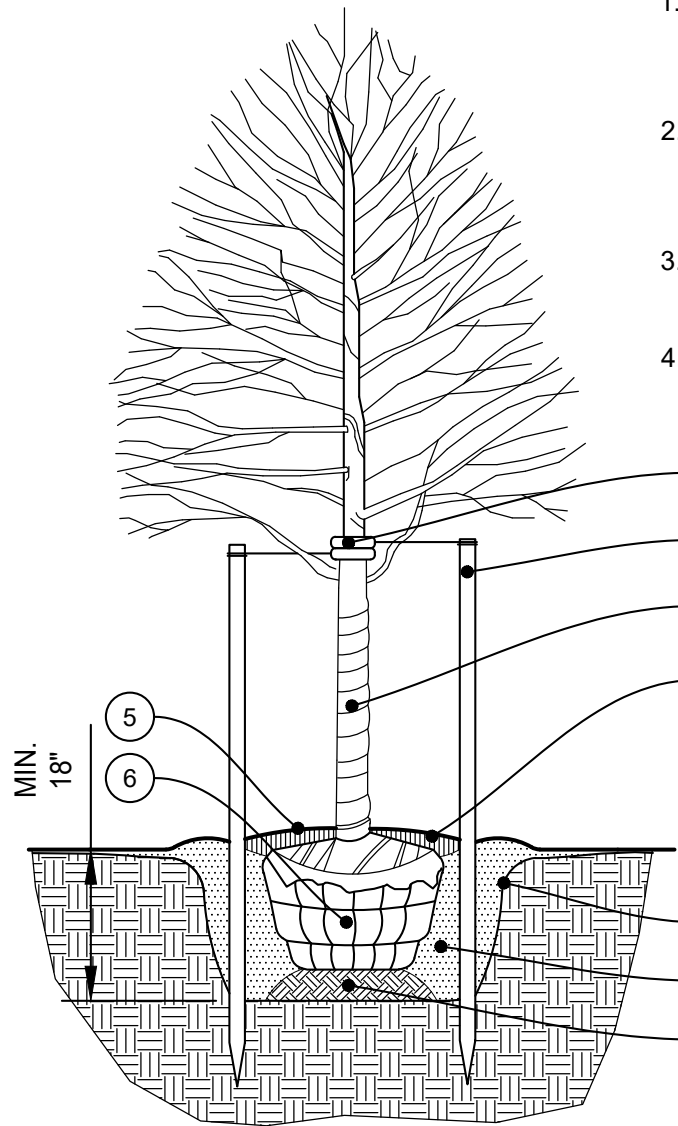
PERENNIAL/GROUND COVER PLANTING DETAIL

NO SCALE

- 1 SEE PLAN FOR LOCATION, SPACING, AND QUANTITIES
- 2 NURSERY STOCK
- 3 SHREDDED BARK MULCH 4" DEPTH, TYP.
- 4 REMOVE CONTAINER GROWN STOCK FROM CONTAINER BEFORE PLANTING. PLANT ACCORDING TO 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 815.03.F.2
- 5 STEEL LANDSCAPE EDGING, OR PAVEMENT (SEE PLAN)
- 6 PREPARED SOIL (SEE SPECIAL PROVISIONS)
- 7 EXISTING SUBGRADE OR ENGINEERED BACKFILL
- 8 8" MIN. BETWEEN ROOTBALL AND EDGE OF PLANT PIT

NOTES:

1. ALL WORK FOR INSTALLATION TREES SHALL BE ACCORDING TO MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 815.03, UNLESS NOTED OTHERWISE.
2. ALL NURSERY STOCK AND PLANTING MATERIALS SHALL MEET THE REQUIREMENTS OF MDOT 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 917 WHERE APPLICABLE.
3. ENGINEER SHALL APPROVE PLACEMENT AND FINAL LOCATION OF PLANTS PRIOR TO FINAL INSTALLATION BY CONTRACTOR
4. ROOT BALL SHALL BE SET ON COMPACTED SOIL



DECIDUOUS TREE PLANTING DETAIL

NO SCALE

- 1 RUBBER HOSE FOR TREE PROTECTION
- 2 STAKES PARALLEL WITH TREE TRUNK
- 3 TREE WRAP
- 4 SHREDDED BARK MULCH, 4" DEPTH
- 5 FINISH GRADE SLOPED SLIGHTLY AWAY FROM TREE
- 6 SET ROOTBALL, BACKFILL, AND REMOVE BURLAP & TWINE PER 2020 STANDARD SPECIFICATION
- 7 PREPARED SOIL (SEE SPECIAL PROVISION)
- 8 COMPACTED SOIL UNDER ROOTBALL
- 9 EXTEND PREPARED SOIL 18" MIN. BEYOND EDGE OF ROOTBALL, OR AS DIRECTED BY ENGINEER

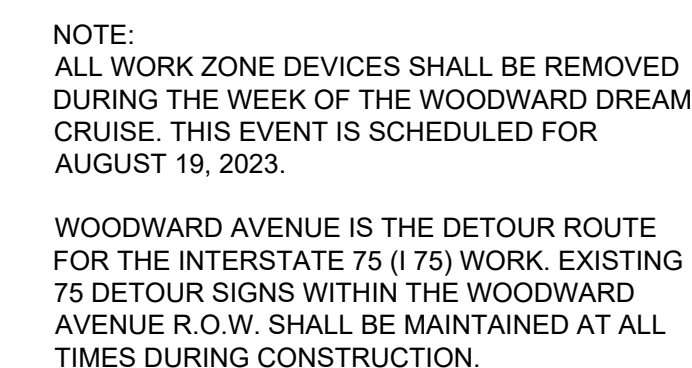


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SUBMITTALS/REVISIONS	
DATE	

PROJECT NAME

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SHEET TITLE

**STAGE 1
MAINTAINING
TRAFFIC PLAN
STA10+00 TO STA 29+00**

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/>	PRELIMINARY	<input checked="" type="checkbox"/>	CONSTRUCTION	<input type="checkbox"/>	RECORD
DRAWN BY:		CHECKED BY:		DATE:	
NAC		MDS		JANUARY 2022	

SCALE:

1" = 40'

A horizontal scale bar with tick marks at 0, 20, 40, and 80 feet. The bar is divided into four equal segments, each representing 20 feet.



Know what's below. Call 800-4-A-DEPT.
72 hours before you dig.

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PROJECT NO. 0175-0115

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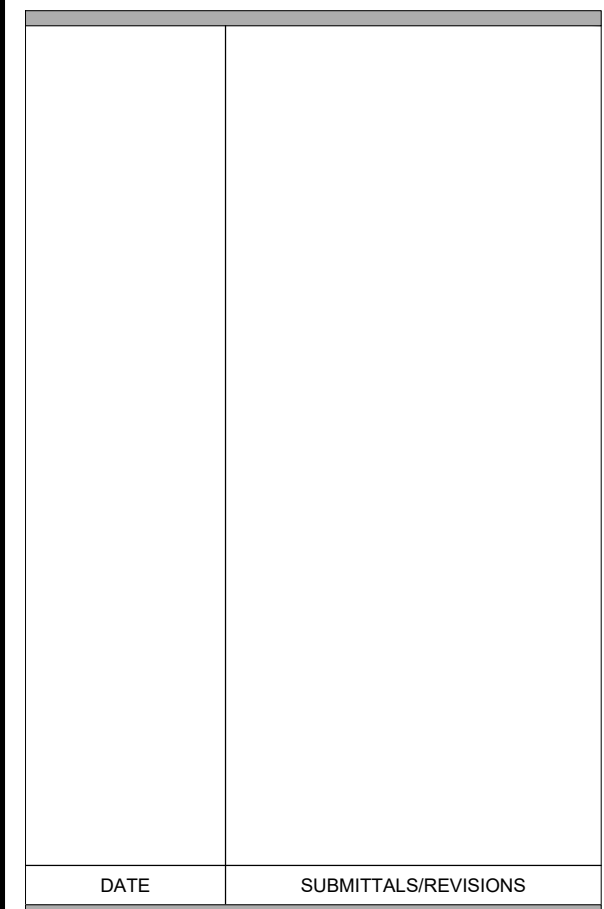
31

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Shelby Township Fax 586 726 8780
Michigan 48315

ENGINEERING STRONG COMMUNITIES



SHEET TITLE:

STA 20+00 TO STA 34+85
WOODWARD AVE AND
STA 5+00 TO STA 9+16
MAIN STREET

CLIENT:
CITY OF PLEASANT RIDGE

811 Know what's below. Call 72 hours before you dig.

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PROJECT NO. _____

0175-0115

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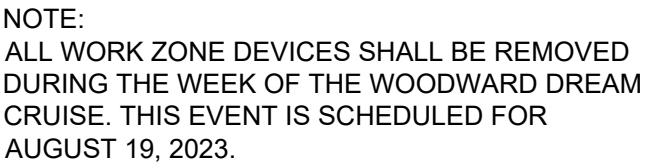
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WOODWARD AVENUE IS THE DETOUR ROUTE FOR THE INTERSTATE 75 (I 75) WORK. EXISTING 75 DETOUR SIGNS WITHIN THE WOODWARD AVENUE R.O.W. SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

SHEET TITLE

CLIENT

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022

SCALE:

1" = 40'



Know what's below. Call
72 hours before you dig.

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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0175-0115

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SHEET NO.

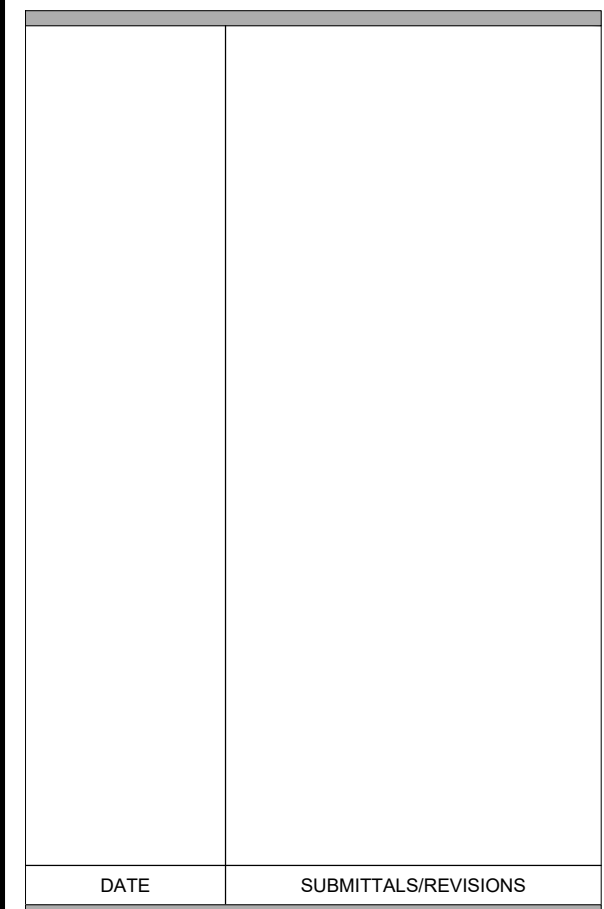
33

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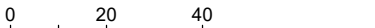
51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

ENGINEERING STRONG COMMUNITIES



**SHEET TITLE: STAGE 2
MAINTAINING
TRAFFIC PLAN**

**STA 20+00 TO STA 34+85
WOODWARD AVE AND
STA 5+00 TO STA 9+16
MAIN STREET**

<input checked="checked" type="checkbox"/> PRELIMINARY	<input checked="checked" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
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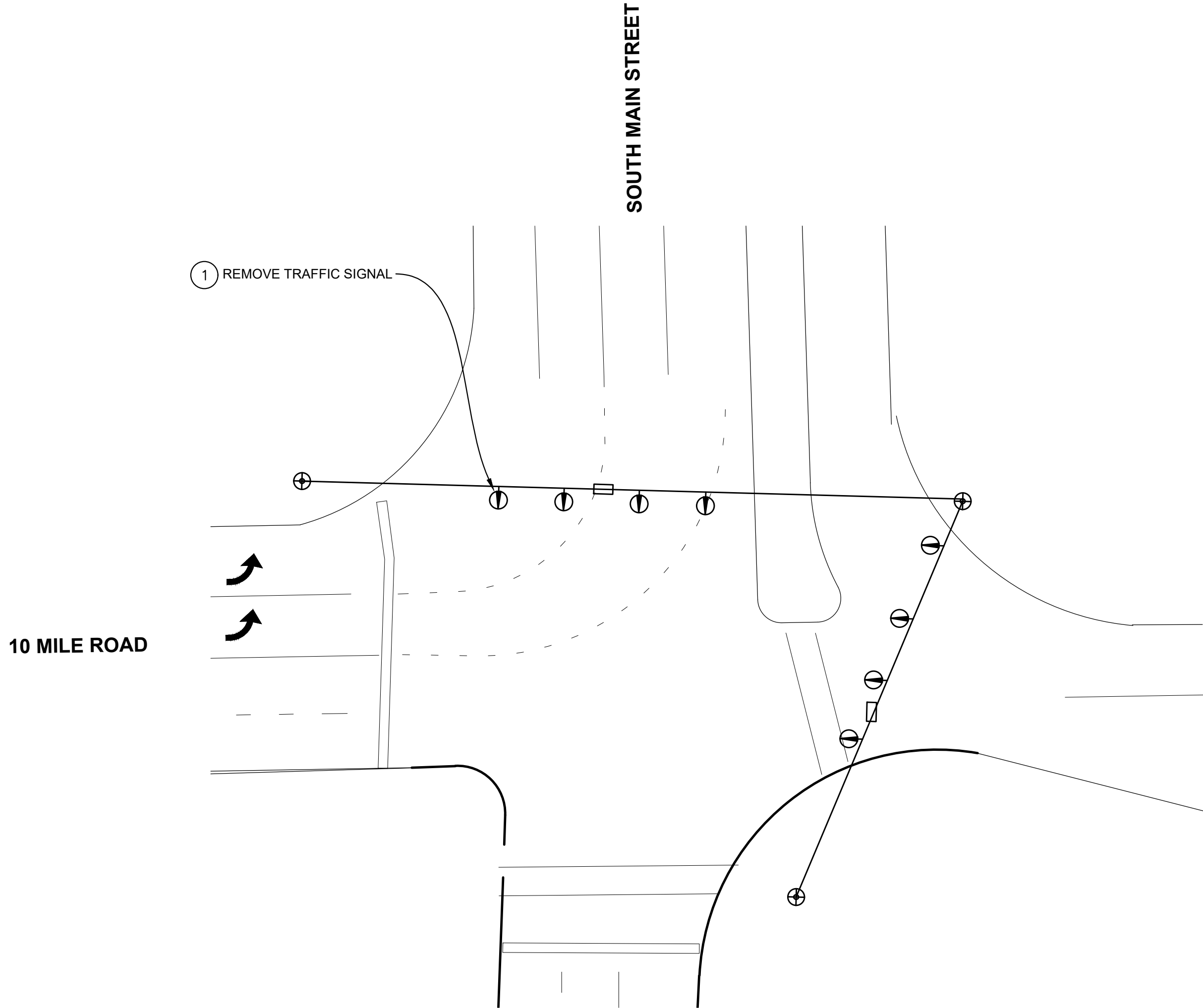
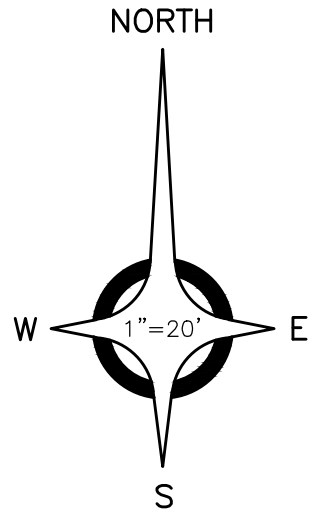


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PROJECT NO. 0175-0115

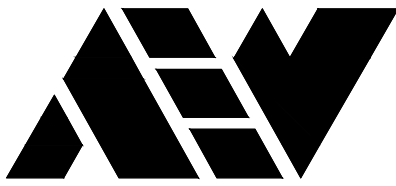
SHEET NO.

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LIST OF MATERIALS		
No.	ITEM	QUANTITY
1	TS, Span Wire Mtd, Rem	1 Ea

NOTE:
TRAFFIC SIGNAL WORK TO BE COMPLETED
AFTER ALL ROAD WORK IS COMPLETED.
COORDINATE WITH MDOT AND RCOC.



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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

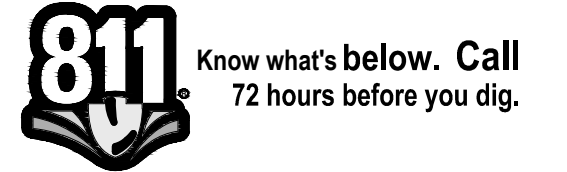
SHEET TITLE:

TRAFFIC SIGNAL PLAN

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPE	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 20' 0 10 20 40		



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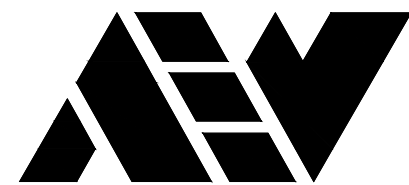
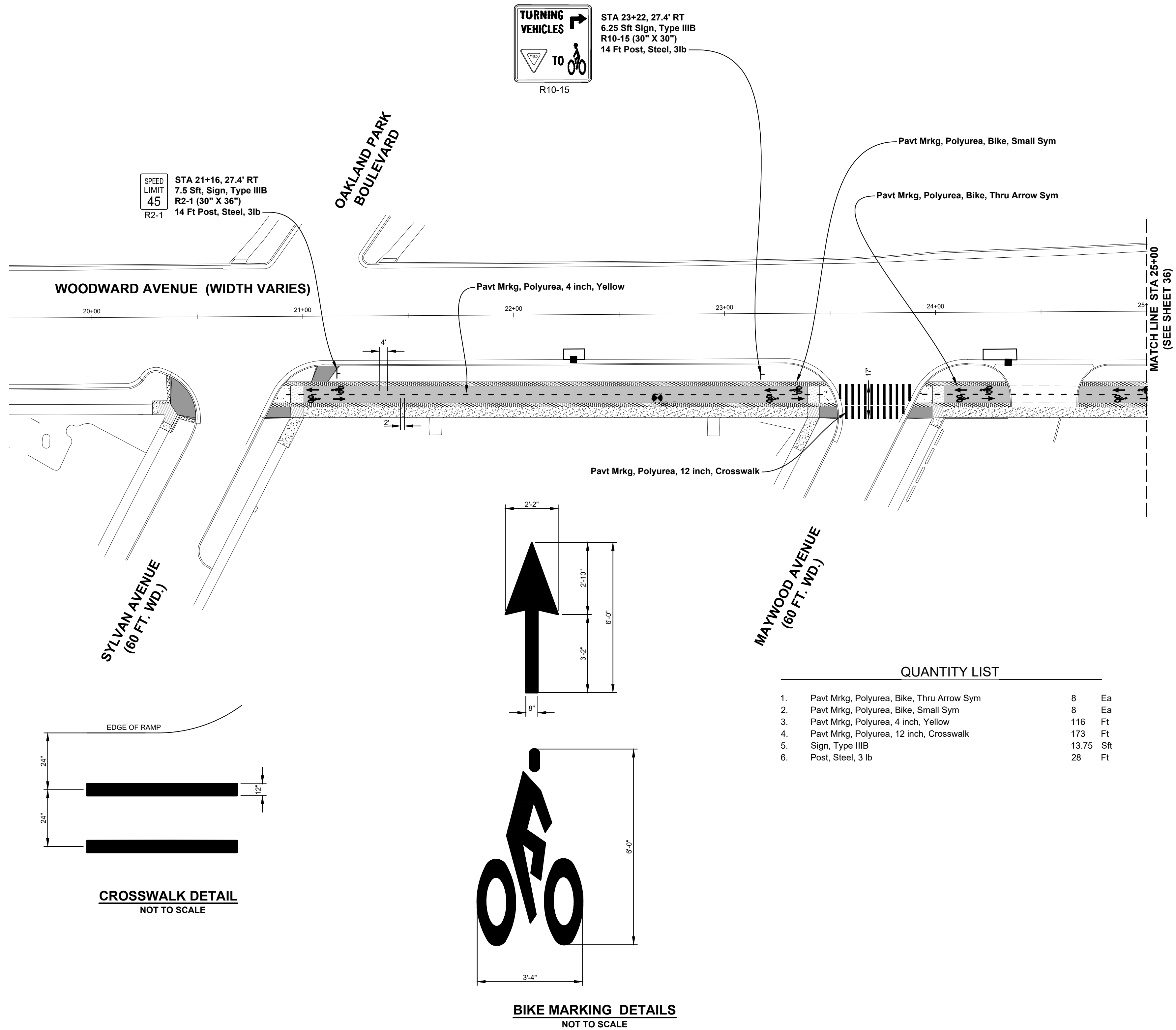
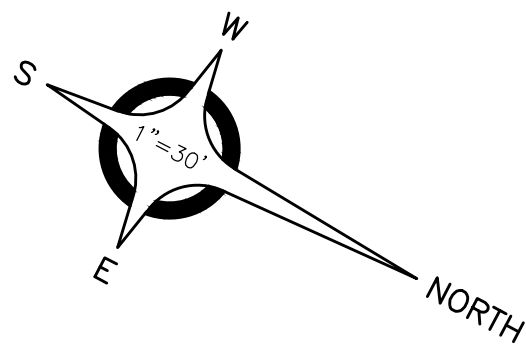
PROJECT NO.

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SHEET NO.

35



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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
DATE	
SUBMITTALS/REVISIONS	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

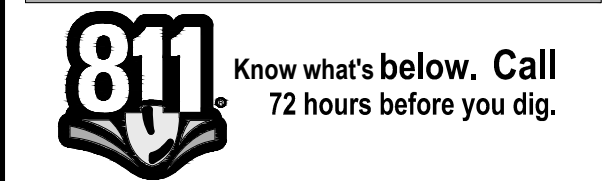
SHEET TITLE:

PERMANENT SIGNING & MARKING PLAN STA 17+00 TO STA 25+00

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:		
1" = 30'		
0 15 30 60		



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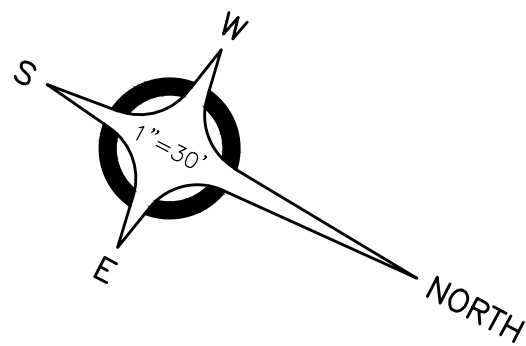
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SHEET NO.

36



WOODWARD AVENUE
(WIDTH VARIES)

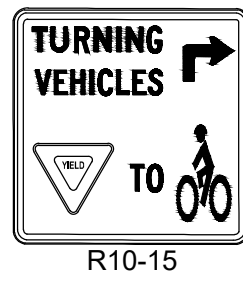
MATCH LINE STA 25+00
(SEE SHEET 35)

AMHERST AVENUE
(60 FT. WD.)

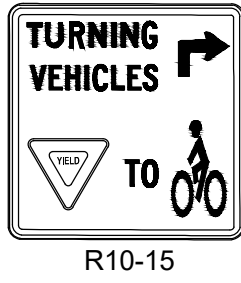
WELLESLEY DRIVE
(60 FT. WD.)

WOODWARD AVENUE
(WIDTH VARIES)

MATCH LINE STA 32+00
(SEE SHEET 37)



STA 26+25, 10.6' RT
6.25 Sft Sign, Type IIIB
R10-15 (30" X 30")
14 Ft Post, Steel, 3lb



STA 29+26.4, 9.3' RT
6.25 Sft Sign, Type IIIB
R10-15 (30" X 30")
14 Ft Post, Steel, 3lb

QUANTITY LIST

1.	Pavt Mrkg, Polyurea, Bike, Thru Arrow Sym	10	Ea
2.	Pavt Mrkg, Polyurea, Bike, Small Sym	10	Ea
3.	Pavt Mrkg, Polyurea, 4 inch, Yellow	302	Ft
4.	Pavt Mrkg, Polyurea, 12 inch, Crosswalk	300	Ft
5.	Pavt Mrkg, Polyurea, For On-Street Parking, 4 inch, White	104	Ft
6.	Sign, Type III, Erect, Salv	1	Ea
7.	Sign, Type IIIA	30	Sft
8.	Sign, Type IIIB	12.5	Sft
9.	Post, Wood, 4" X 6"	28	Ft
10.	Post, Steel, 3 lb	42	Ft

CARRIERS OF
EXPLOSIVE
FLAMMABLE
CARGOS
PROHIBITED
I-696 WEST

CARRIERS OF
EXPLOSIVE
FLAMMABLE
CARGOS
PROHIBITED
I-696 WEST

STA 30+19, 13' RT
30 Sft Sign, Type IIIA
SP-1 (60" X 72")
(2) 28 Ft Post, Wood, 4" X 6"

Remove Type III Sign
And Supports

Pavt Mrkg, Polyurea, Bike, Thru Arrow Sym

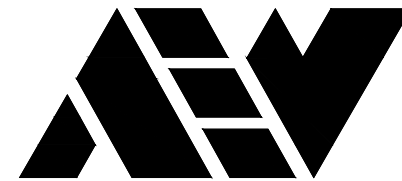
Pavt Mrkg, Polyurea, For On-Street Prking, 4 inch, White

Pavt Mrkg, Polyurea, 12 inch, Crosswalk

Pavt Mrkg, Polyurea, 4 inch, Yellow

STA 29+26.4, 12.1' RT
ERECT SALVAGED
TYPE III SMART BUS SIGN
14 Ft Post, Steel, 3lb

Pavt Mrkg, Polyurea, Bike, Small Sym



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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
SHEET TITLE:	
CLIENT:	
CITY OF PLEASANT RIDGE	
PRELIMINARY	CONSTRUCTION
DRAWN BY:	CHECKED BY:
NAC	MDS
DATE:	JANUARY 2022
SCALE:	1" = 30'
0	15 30 60

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

PERMANENT SIGNING & MARKING PLAN STA 25+00 TO STA 32+00

CITY OF PLEASANT RIDGE

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY:	CHECKED BY:	DATE:
NAC	MDS	JANUARY 2022
SCALE:	1" = 30'	
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PROJECT NO.

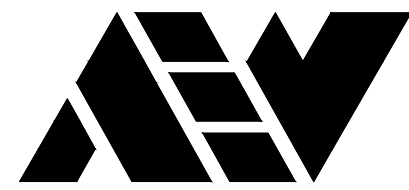
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SHEET NO.

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ENGINEERING STRONG COMMUNITIES

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

SHEET TITLE:

PERMANENT SIGNING
DETAIL

CLIENT:

CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: 1" = 30'		



Know what's below. Call
72 hours before you dig.

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PROJECT NO.

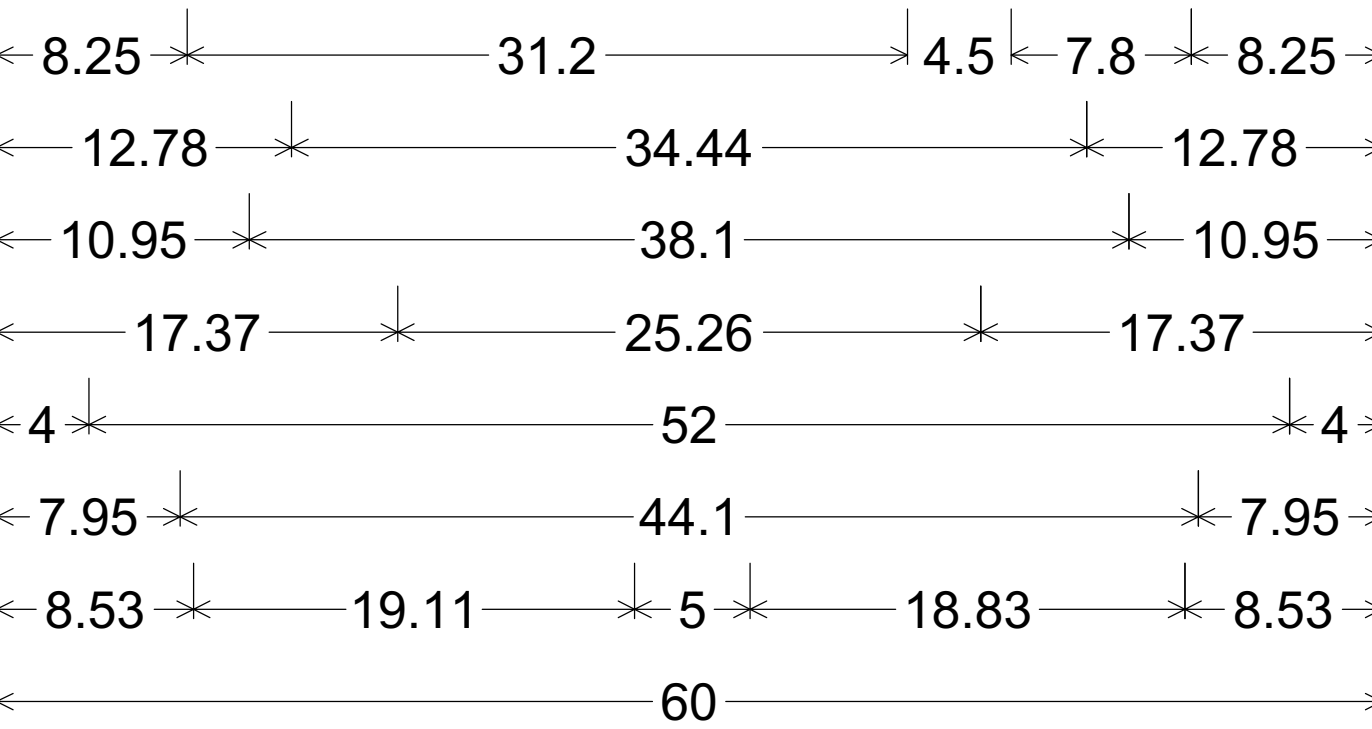
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SHEET NO.

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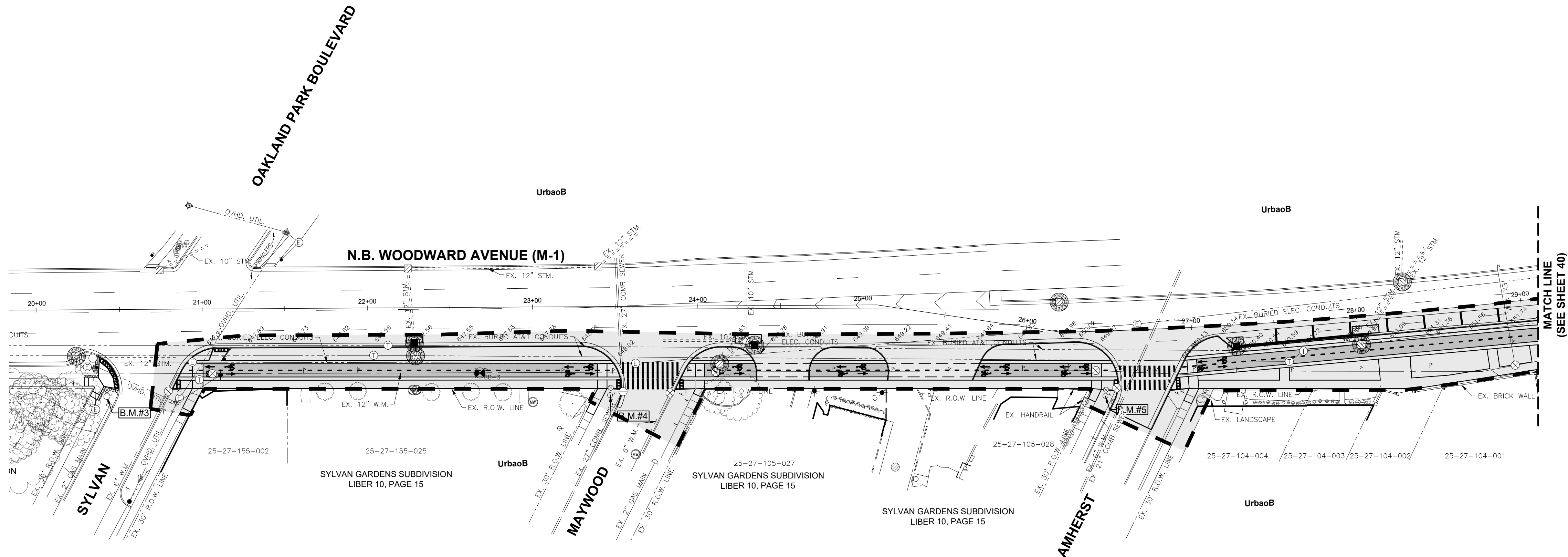
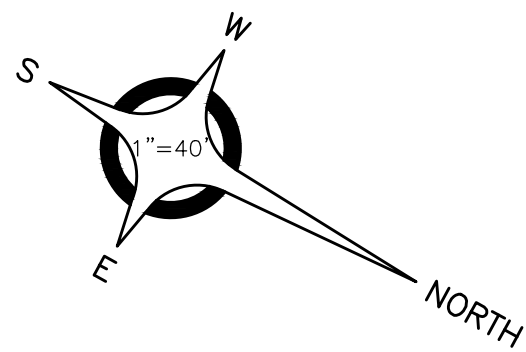
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SP-1;
3.00" Radius, 1.25" Border, 0.75" Indent, Black on, White;
"CARRIERS", C 2K; "OF", C 2K;
"EXPLOSIVE", C 2K; "FLAMMABLE", C 2K;
"CARGOS", C 2K; "PROHIBITED", C 2K;
"I-696", C 2K; "WEST", C 2K;



E6-1 (1.6) I;
9.00" Radius, 2.00" Border, White on, Green;
"Detroit Zoo", ClearviewHwy-5-W; "Main", ClearviewHwy-5-W; "St", ClearviewHwy-5-W; Arrow B-20 - 32.00" 60";



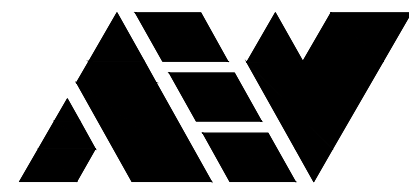
LEGEND

[] LIMITS OF PROPOSED EARTH CHANGE

[] Sack Type Inlet Filter

QUANTITIES (THIS SHEET)

Erosion Control, Inlet Protection, Fabric Drop 9 EA



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ENGINEERING STRONG COMMUNITIES

DATE SUBMITTALS/REVISIONS

PROJECT NAME:

WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS

SHEET TITLE:

SOIL EROSION
CONTROL PLAN

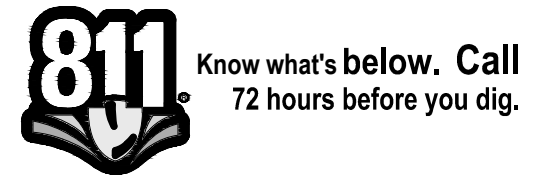
CLIENT:

CITY OF PLEASANT RIDGE

PRELIMINARY CONSTRUCTION RECORD

DRAWN BY: NAC CHECKED BY: MDS DATE: JANUARY 2022

SCALE: 1" = 40'
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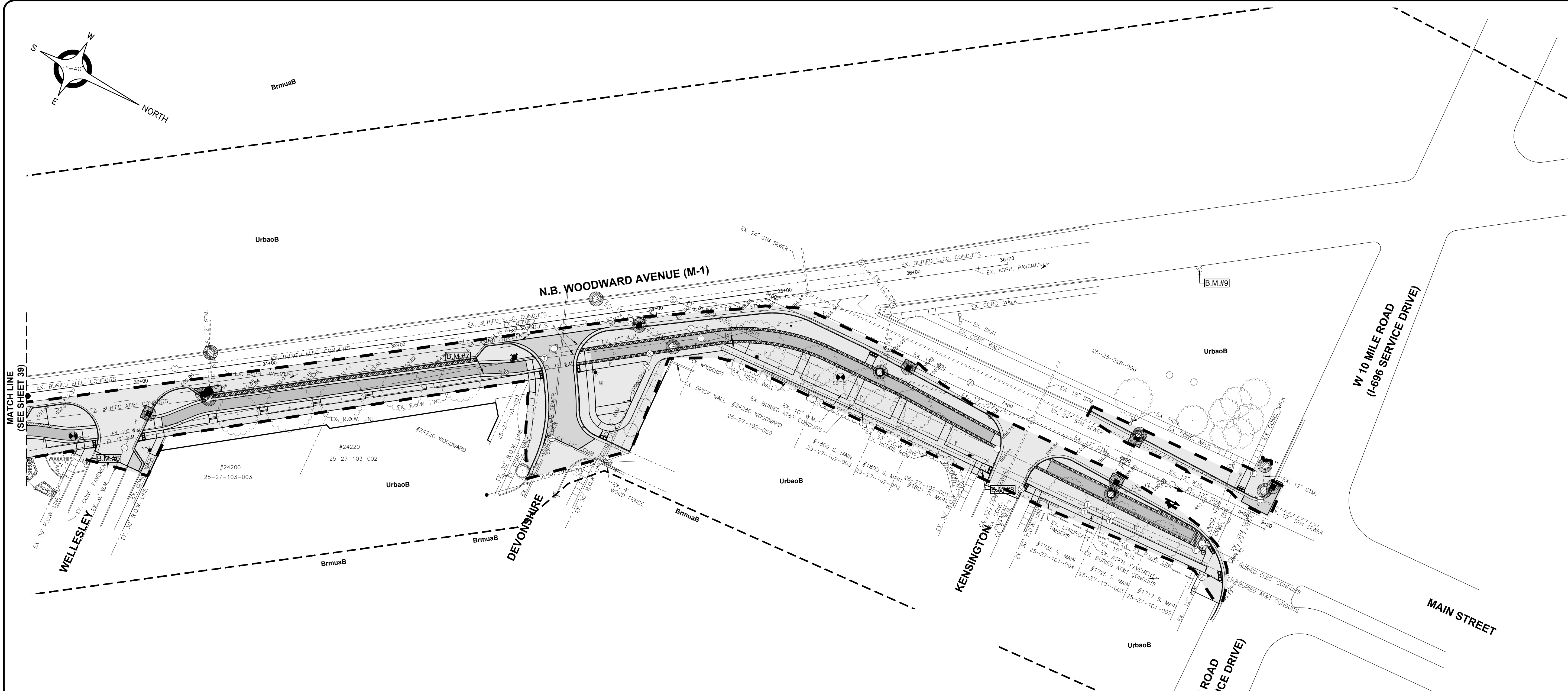
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- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE OAKLAND COUNTY WATER RESOURCES SOIL EROSION PERMIT SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE OAKLAND COUNTY WATER RESOURCES SOIL EROSION PERMIT PUBLIC WORKS OFFICE.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- STAGING THE WORK WILL BE DONE BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.
- THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.
- THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE OAKLAND COUNTY WATER RESOURCES SOIL EROSION PERMIT PUBLIC WORKS OFFICE.
- INSTALL INLET FILTER ON ALL PAVEMENT CATCH BASINS PER DETAIL.
 - INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF A RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT.
 - BUILDUP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
 - IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.
- ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. IF THE STOCKPILE WILL BE ON SITE FOR MORE THAN 30 DAYS, THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. NO EXCAVATED MATERIAL WILL BE STOCKPILED ON SITE.
- IF ANY DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE USED. NO DEWATERING IS ANTICIPATED FOR THIS PROJECT.
- ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.
- STREETS AND OR PARKING AREAS WILL BE SCRAPED ON A DAILY BASIS AND SWEEPED AT A MINIMUM OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE.
- DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGES ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- FINAL GRADE, ESTABLISH VEGETATION, AND OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
- REMOVE ALL TEMPORARY SOIL EROSION DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
- SOIL TYPES: UrbapB & UrbaoB
- NAME OF NEAREST OPEN WATERCOURSE AND DISTANCE: Red Run Drain, 2.2 Miles.
- NAME(S) AND PHONE NUMBER(S) FOR THE PERSON(S) RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY SOIL EROSION CONTROL MEASURES WILL BE PROVIDED WHEN THE CONTRACTOR IS SELECTED.

ALL RESTORATION OF DISTURBED LAWN SURFACES WILL BE RESTORED WITH TOPSOIL AND SOD.

NO DEWATERING OR STOCKPILED OF MATERIAL IS ANTICIPATED.

GROSS ACREAGE DISTURBED: 1.96 ACRES

LEGEND

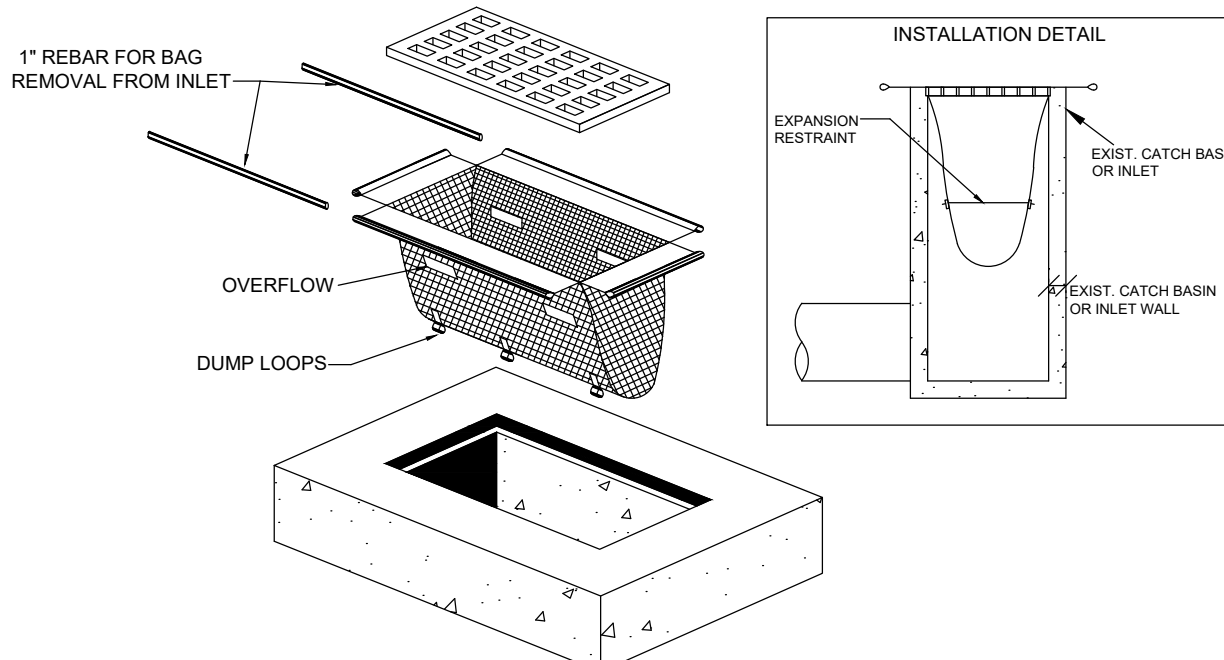
LIMITS OF PROPOSED EARTH CHANGE

Sack Type Inlet Filter

QUANTITIES (THIS SHEET)

Erosion Control, Inlet Protection, Fabric Drop 16 EA

SACK TYPE INLET FILTER (SESC-3)



2023																															
	MAY					JUNE				JULY				AUGUST				SEPTEMBER			OCTOBER			NOVEMBER							
	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	9/3	9/10	9/17	9/24	10/1	10/8	10/15	10/22	10/29	11/5	11/12	11/19	11/26
MOBILIZE																															
INSTALL INLET FILTERS																															
REMOVALS & EARTHWORK																															
PAVEMENT, DRIVE AND SIDEWALK																															
RESTORATION																															
PERMANENT SESC MEASURES																															
REMOVE TEMPORARY SESC MEASURES																															

DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	
SHEET TITLE:	
CLIENT:	
CITY OF PLEASANT RIDGE	
DRAWN BY: NAC	
CHECKED BY: MDS	
DATE: JANUARY 2022	
SCALE: 1" = 40'	
0 20 40 80	

WOODWARD AVENUE STREETSCAPE IMPROVEMENTS

SOIL EROSION CONTROL PLAN WELLESLEY TO 10 MILE ROAD


LEGEND

LIMITS OF PROPOSED EARTH CHANGE

Sack Type Inlet Filter

QUANTITIES (THIS SHEET)

Erosion Control, Inlet Protection, Fabric Drop 16 EA

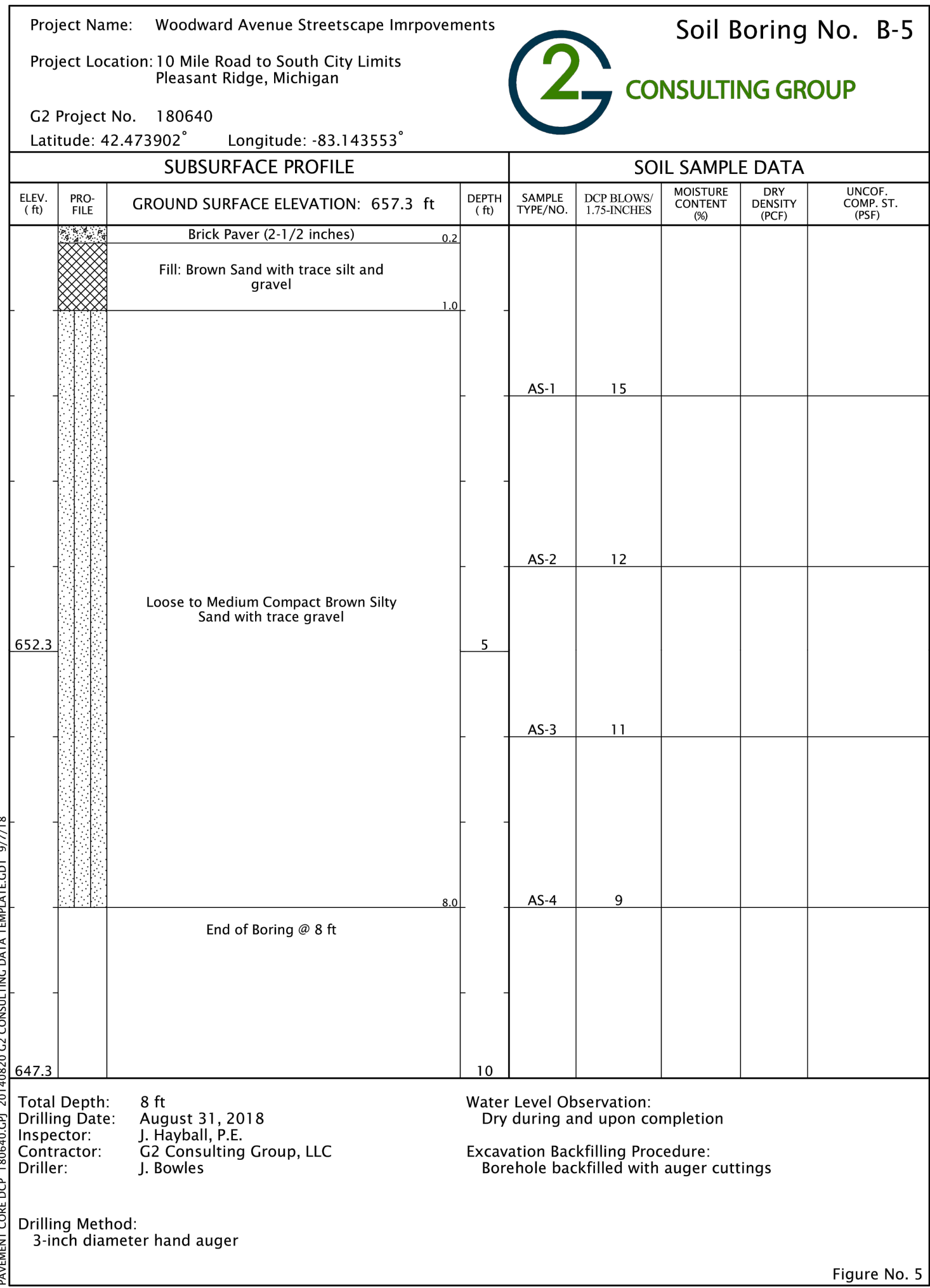
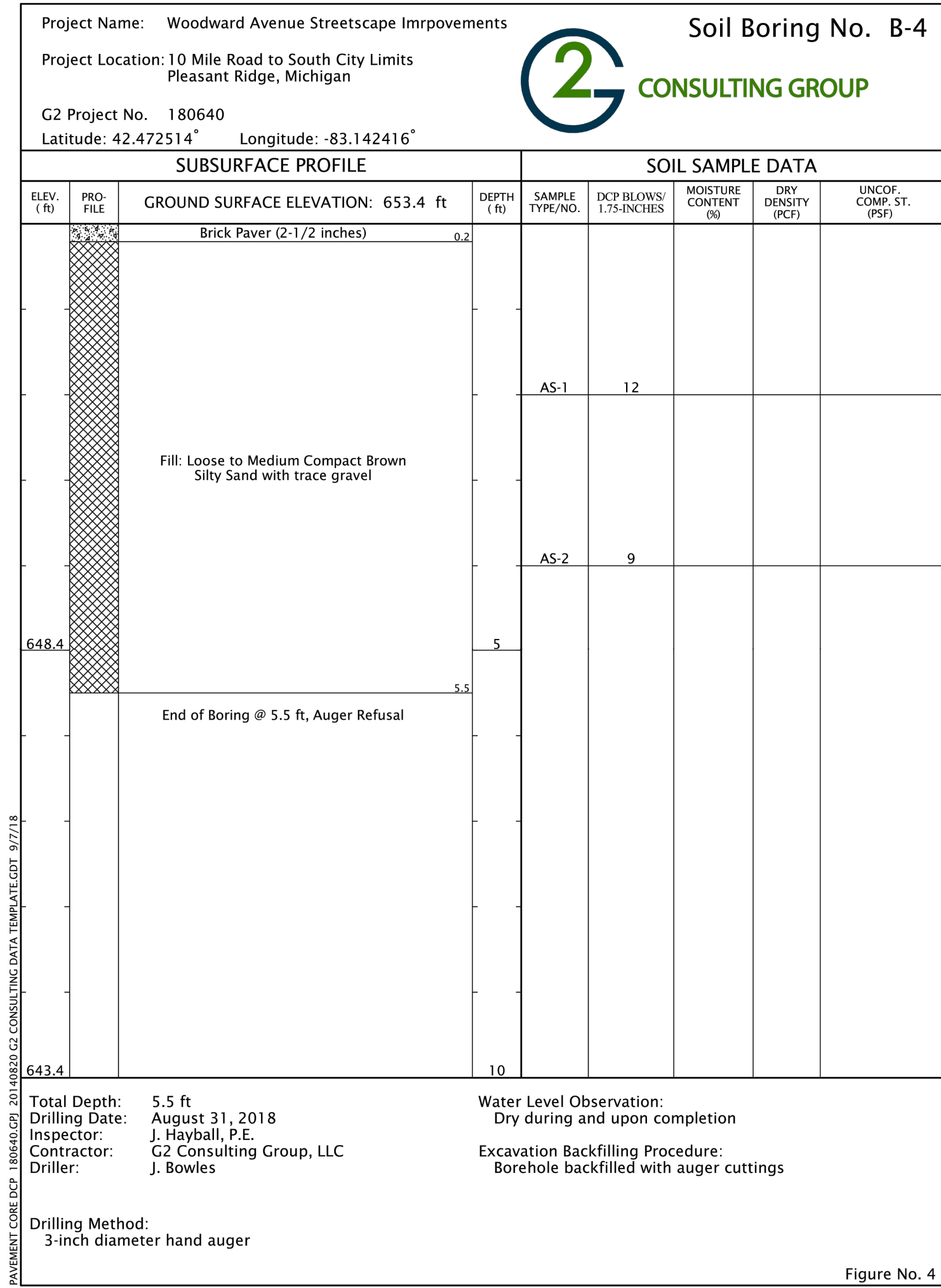
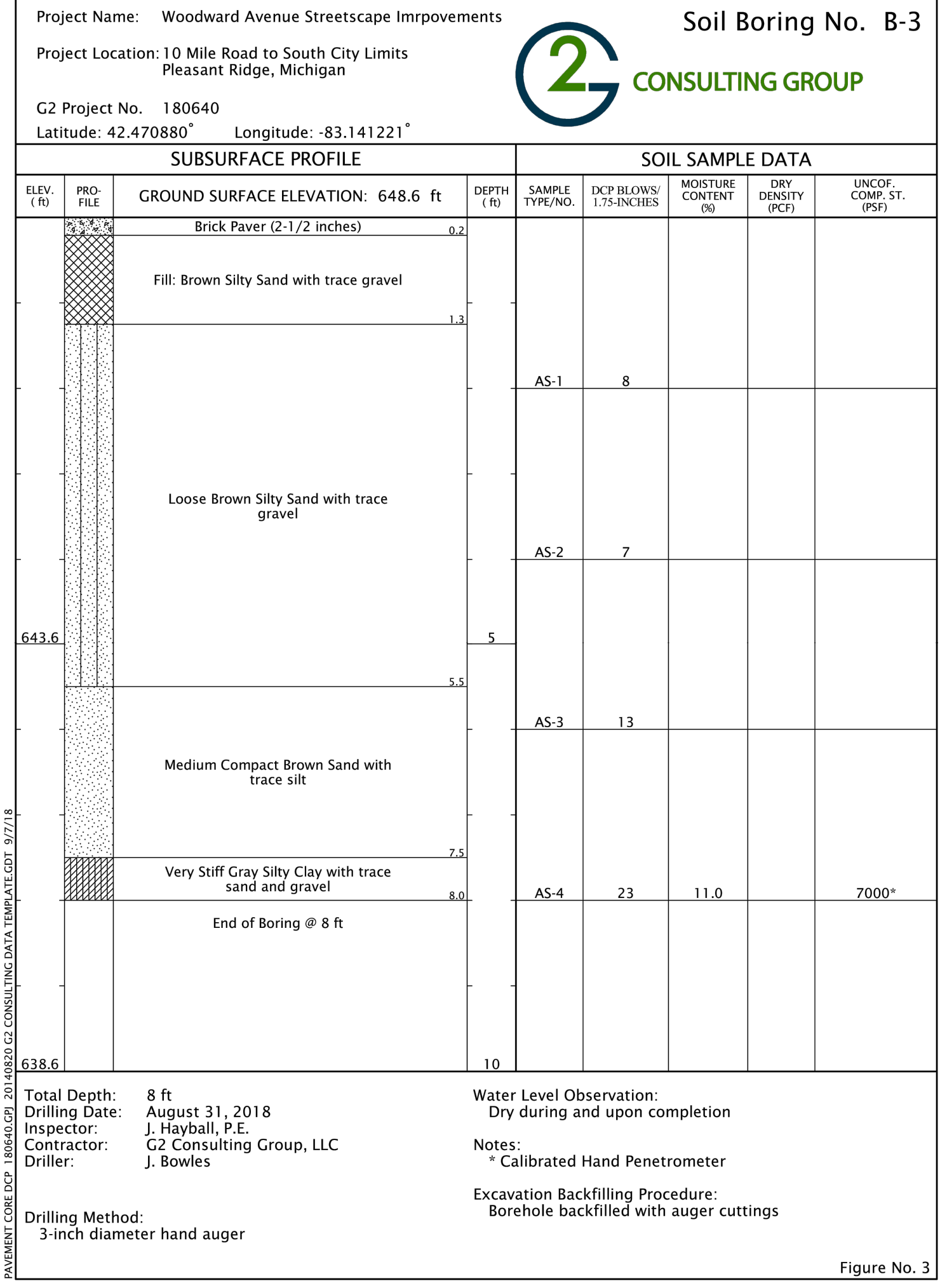
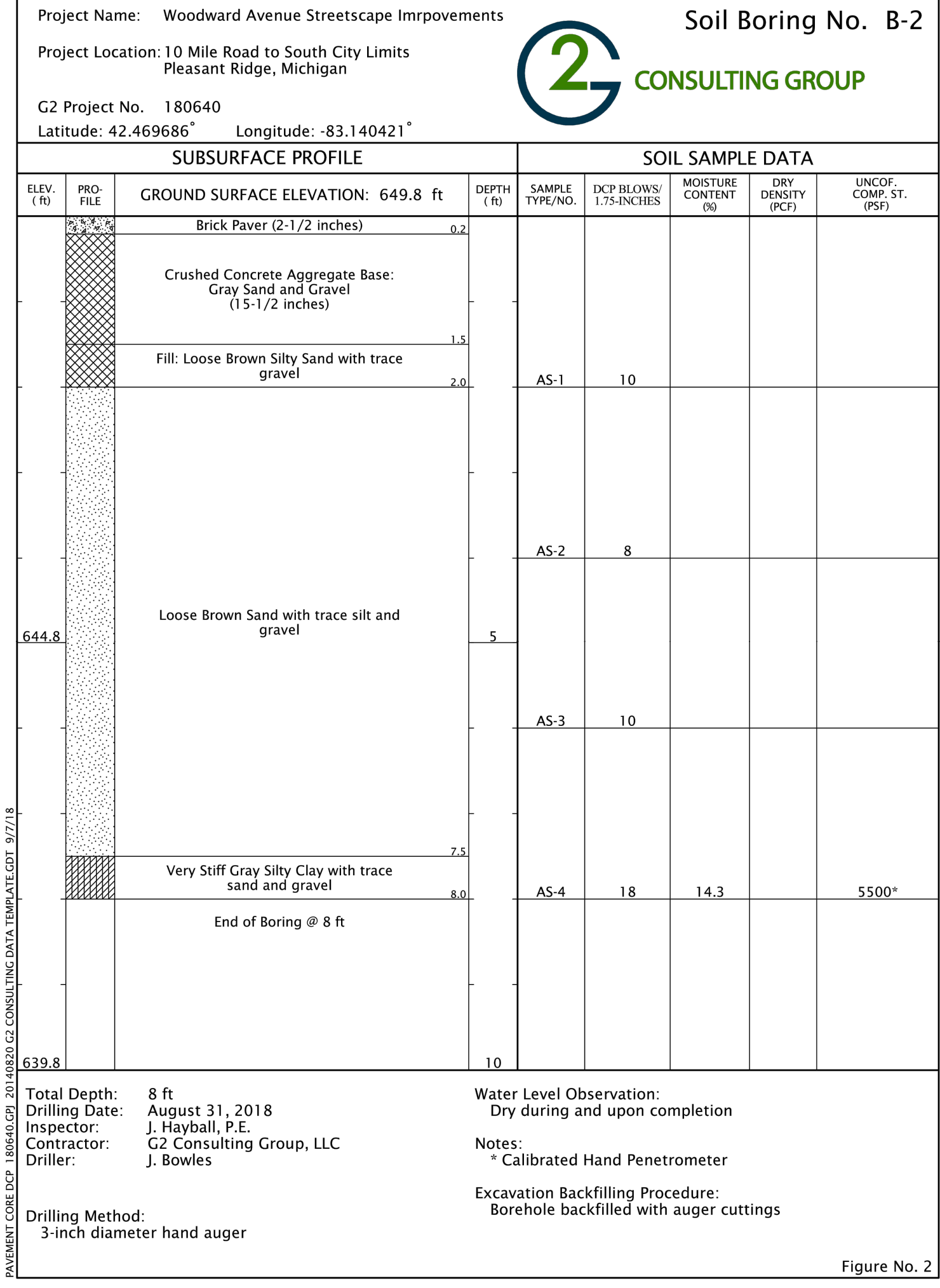
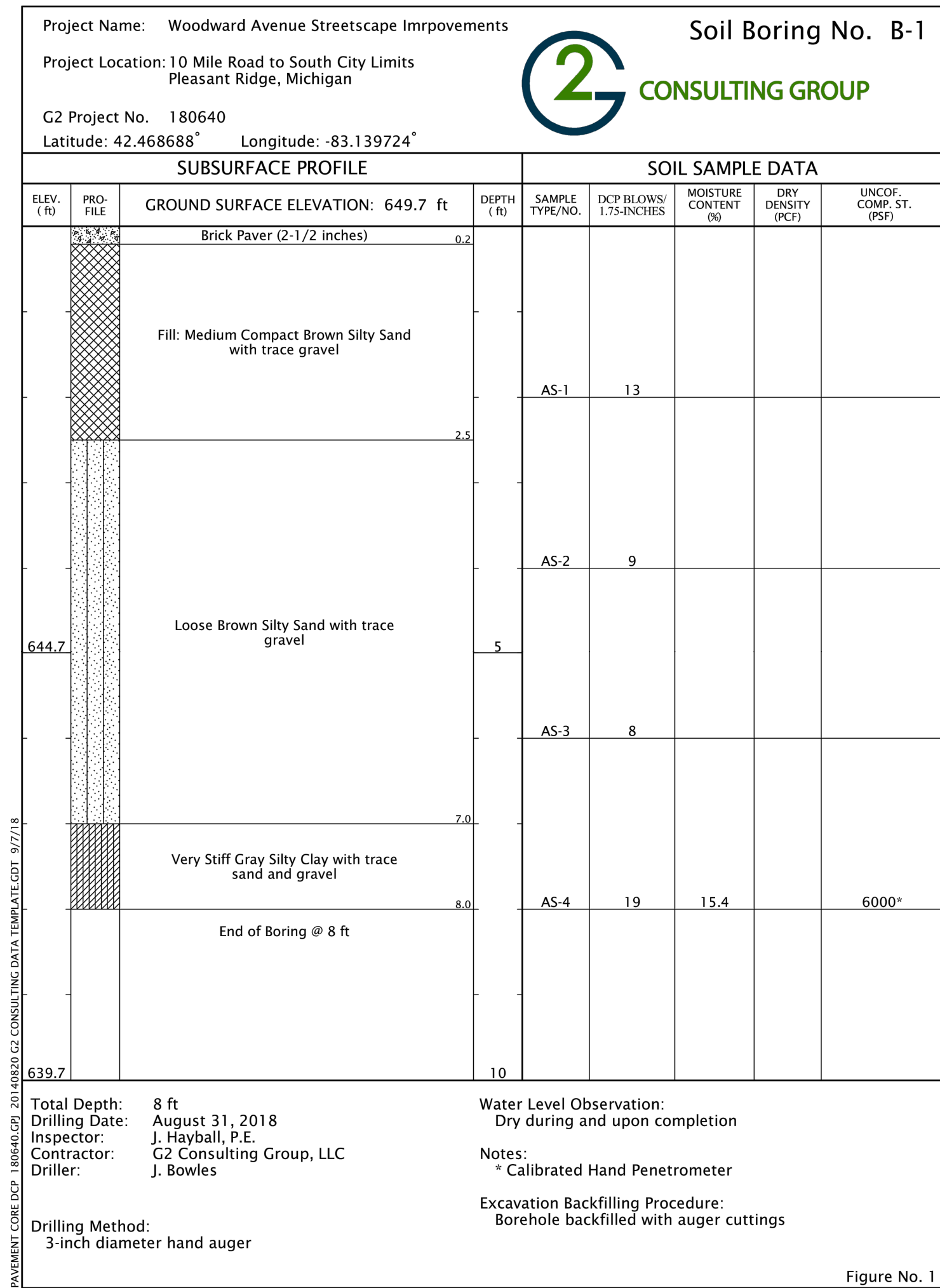
**Know what's below. Call 811**
72 hours before you dig.

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0175-0115
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41_SESC-12/20/2022 11:36:08 AM
SHEET NO.



DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**WOODWARD AVENUE
STREETSCAPE
IMPROVEMENTS**

SHEET TITLE:

SOIL BORING

CLIENT:
CITY OF PLEASANT RIDGE

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: NAC	CHECKED BY: MDS	DATE: JANUARY 2022
SCALE: AS NOTED		



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PROJECT NO.
0175-0115

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42_SOIL BORING-12/18/2022 8:45:14 PM

SHEET NO.

