

# ADDENDUM No. 1

RFP No. 22-20

## 2022 Miscellaneous Utility Projects

**Due: March 24, 2022 by 2:00 p.m. (local time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 11 attached pages, and 3 attached plan sheets as noted below.**

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D - Prevailing Wage Declaration of Compliance
- Attachment E - Living Wage Declaration of Compliance
- Attachment G - Vendor Conflict of Interest Disclosure Form
- Attachment H - Non-Discrimination Declaration of Compliance

**Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.**

### I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
Page 13 Section III.C.4	Remove the following as provided in RFP No. 22-19 Document: Documentation of how the bidder assesses the skills and qualifications of any employees who do not have master or journeyman certification or status, or are not participants in a Registered Apprenticeship Program.

*Comment: The intent with this change is to simply remove the 4<sup>th</sup> criteria for Section III.C – Workforce Development that was erroneously included in the originally published RFP Document.*

Pages 15-19 Section III.E	Replace Schedule of Pricing/Cost.
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*Comment: Added quantities for additional tree/shrub plantings within Dicken Woods Nature Area. Added tree transplanting pay item. Location of additional plantings and transplanting to be*

*determined in the field. Revised 12" storm sewer quantities. Crosswalk pavement markings have been changed to Polyurea.*

Detailed Specifications            Replace Detailed Specification for Trees and Plantings.

*Comment: Added additional trees/shrubs to be planted and added tree transplanting specifications.*

Plan Sheets                            Replace Plan Sheets 4, 7 and 11.

*Comment: Updated road cross sections for Dicken and Hiscock. Added Split Rail Fence Detail.*

## **II. QUESTIONS AND ANSWERS**

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1:    Please provide the scoring guidelines and procedures the Selection Committee has been instructed to use for scoring Section A-E of the new RFP system.

*Answer 1:    The five scoring sections listed in Section III of the RFP shall be equal weighted (20 points each) and shall be evaluated based on the materials submitted with the respondent's proposal.*

Question 2:    What individuals will make up the Selection Committee as identified in the RFP?

*Answer 2:    The selection committee will be comprised of City Public Services staff.*

Question 3:    Is the scoring system / point allocation to be "graded on a curve" based on the responsive bids received for the specific RFP, or will the scoring methodology remain consistent from RFP to RFP?

*Answer 3:    Scoring will be performed on a project-by-project basis relative to the other proposals received. The five sections and the corresponding equal point distributions are established by ordinance and will be the same for all projects.*

Question 4:    Does the 21AA Limestone need to meet City of Ann Arbor specification?

*Answer 4:    The 21AA will be required to meet the MDOT specification.*

Question 5:    Does the CLII Sand need to meet City of Ann Arbor specification?

*Answer 5:    The CLII Sand will be required to meet the MDOT specification.*

Question 6:    Is the Sand Subbase Course CL II C.I.P. pay item used for underneath road, sidewalk and 6" concrete pavement?

*Answer 6:    This pay item is only used under all concrete pavement include Maple Road, sidewalk and ramps, and concrete driveways.*

Question 7:    On the proposed cross section for Dicken Drive and Hiscock Street you show sand subbase but do not call out the depth. What is the depth for the sand subbase?

*Answer 7:    Detail has been revised per attached drawing to clarify subbase.*

Question 8:    Can we work on more than one street at a time?

*Answer 8:    Yes. Work on Hiscock sewer and on Eighth St shall not commence before easements are obtained. Work on Sunrise Ct must be scheduled/coordinated with the City Resurfacing Program prior to commencing work.*

Question 9: Is the contractor responsible to remove supplemental Aggregate on Sunrise Ct. before final paving?

*Answer 9: No, the resurfacing contractor shall be responsible to set final aggregate base grade and remove aggregate as necessary.*

Question 10: Is the contractor responsible to install the sidewalk and curb on Sunrise Ct.?

*Answer 10: No.*

Question 11: Is there a detail for the split rail fence?

*Answer 11: See detail included in this Addendum.*

Question 12: How will Machine Grading get measured, edge of metal to edge of metal, back of curb to back of curb or R.O.W. to R.O.W.?

*Answer 12: Machine grading will be paid based on area of disturbance since project areas are not confined to road rights-of-way.*

Question 13: How will 21AA Limestone, C.I.P. get measured, edge of metal to edge of metal or back of curb to back of curb?

*Answer 13: Where curb replacement is identified, the measurement will be from back of curb to back of curb. All other areas shall be measured from edge of metal to edge of metal.*

Question 14: Is the underdrain shown behind the retaining wall paid for in the underdrain pay item or will it be included in with the retaining wall pay item?

*Answer 14: It will be paid for separately in the underdrain pay item.*

Question 15: Will a railroad permit be required for the storm work on Hiscock Street? If so, will the City pull the permit?

*Answer 15: Yes, a permit will be required and the City is in the process of obtaining the permit. Permit fees will be the responsibility of the City. The Contractor may need to provide insurance/sign the permit as required by the Railroad.*

Question 16: What is the Engineer's estimate for the project?

*Answer 16: The Engineer's estimate for the project is \$1,454,000.*

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

**E. Schedule of Pricing/Cost – 20 Points**

Company: \_\_\_\_\_

**Unit Price Bid**

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
130	Protective Fencing	FT	160	\$ _____	\$ _____
140	Exploratory Excavation (0-10' deep)	EA	3	\$ _____	\$ _____
201	Project Supervision, Max \$40,000	LS	1	\$ _____	\$ _____
202	General Conditions, Max \$60,000	LS	1	\$ _____	\$ _____
203	Digital Audio Visual Coverage	LS	1	\$ _____	\$ _____
204	Minor Traffic Devices, Max \$30,000	LS	1	\$ _____	\$ _____
205	Clean-Up & Restoration, Special, Max \$20,000	LS	1	\$ _____	\$ _____
206	"No Parking" Signs	EA	20	\$ _____	\$ _____
207	Certified Payroll Compliance and Reporting	LS	1	\$ _____	\$ _____
208	Allowance for Unforeseen Site Conditions	DLR	40000	\$ _____	\$ _____
209	Remove Concrete Curb or Curb & Gutter, Any Type	FT	1130	\$ _____	\$ _____
210	Remove Concrete Sidewalk and Pavement - Any Thickness	SYD	360	\$ _____	\$ _____
211	HMA Pavement Removal, Any Depth	SYD	3360	\$ _____	\$ _____
212	Pavement Removal for Resurfacing	SYD	110	\$ _____	\$ _____
213	Tree Removal, 6 inch to 24 inch	EA	48	\$ _____	\$ _____
214	Remove Fence	FT	110	\$ _____	\$ _____
215	Sign, Salvage & Replace	EA	2	\$ _____	\$ _____
216	Sewer, Any Size/ Depth, Remove	FT	240	\$ _____	\$ _____
217	Sewer, Any Size/ Depth, Abandon in Place	FT	320	\$ _____	\$ _____
218	Structure, Abandon	EA	2	\$ _____	\$ _____

TOTAL THIS PAGE (15)  
(Also must be entered on Page 19)

\$ \_\_\_\_\_

219	Structure, Remove	EA	19	\$ _____	\$ _____
220	Water Main, Abandon	FT	1260	\$ _____	\$ _____
221	Water Main, Remove	FT	10	\$ _____	\$ _____
222	Fire Hydrant, Remove	EA	2	\$ _____	\$ _____
223	Machine Grading (Dicken / Maple)	SYD	2070	\$ _____	\$ _____
224	Machine Grading (Eighth)	SYD	2300	\$ _____	\$ _____
225	Machine Grading (Hiscock)	SYD	2200	\$ _____	\$ _____
226	Machine Grading (Sunrise Ct)	SYD	1700	\$ _____	\$ _____
227	Subgrade Undercutting - Type II	CYD	100	\$ _____	\$ _____
228	Sand Subbase Course, Class II - C.I.P	CYD	50	\$ _____	\$ _____
229	21AA Limestone, C.I.P.	CYD	960	\$ _____	\$ _____
230	HMA LVSP	TON	540	\$ _____	\$ _____
231	HMA Hand Patching	TON	5	\$ _____	\$ _____
232	Concrete Curb or Curb & Gutter, All Types	FT	270	\$ _____	\$ _____
233	6 inch Concrete Pavement	SYD	80	\$ _____	\$ _____
234	4 inch Concrete Sidewalk	SFT	4150	\$ _____	\$ _____
235	6 inch Concrete Sidewalk, Ramp or Drive Approach	SYD	1790	\$ _____	\$ _____
236	Concrete Type M Drive Opening	FT	70	\$ _____	\$ _____
237	Concrete Type L Drive Opening	FT	80	\$ _____	\$ _____
238	Aggregate Surface Course, 6 inch	SYD	200	\$ _____	\$ _____
239	Detectable Warning, Cast in Place	FT	40	\$ _____	\$ _____
240	Pavement Marking, Polyurea, 12 inch, Crosswalk	FT	80	\$ _____	\$ _____
241	Lighted Arrow Board, Furnish and Operate	EA	2	\$ _____	\$ _____
242	Plastic Drum - Lighted, Furnish and Operate	EA	40	\$ _____	\$ _____
243	Barricade Type III - Lighted, Furnish and Operate	EA	7	\$ _____	\$ _____
244	Temporary Sign, Type B, Furnish and Operate	SFT	80	\$ _____	\$ _____
245	Temporary Sign, Type B, Furnish and Operate, Special	SFT	45	\$ _____	\$ _____

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(Also must be entered on Page 19)

\$ \_\_\_\_\_

246	Channelizing Devide, 42 Inch, Furnish and Operate	EA	4	\$ _____	\$ _____
247	Pedestrian Type II Barricade, Temp	EA	10	\$ _____	\$ _____
248	Sign Cover	EA	15	\$ _____	\$ _____
249	Temporary Pedestrian Ramp	EA	4	\$ _____	\$ _____
250	Temporary Pedestrian Mat	EA	4	\$ _____	\$ _____
251	Audible Message Device	EA	1	\$ _____	\$ _____
252	Adjust Structure Cover	EA	1	\$ _____	\$ _____
253	Topsoil Surface, 4 inch, Seed and Mulch, Turf Grass	SYD	800	\$ _____	\$ _____
254	Topsoil Surface, 4 inch, Seed and Mulch, Mesic Woodland	SYD	980	\$ _____	\$ _____
255	Topsoil Surface, 4 inch, Seed and Mulch, Pollinator Garden	SYD	210	\$ _____	\$ _____
256	Split Rail Fence	FT	110	\$ _____	\$ _____
257	Woodchip Path, 4 inch	SFT	830	\$ _____	\$ _____
258	Precast Modular Gravity Retaining Wall	SFT	287	\$ _____	\$ _____
259	Sacrificial Anode, 17lb	EA	5	\$ _____	\$ _____
260	Riprap, Plain	SYD	30	\$ _____	\$ _____
261	6-Inch Wrapped Underdrain	FT	110	\$ _____	\$ _____
305	8 inch PVC SDR 35 Sanitary Sewer Pipe, Trench Detail Type I	FT	20	\$ _____	\$ _____
306	8 inch PVC SDR 35 Sanitary Sewer Pipe, Trench Detail Type V	FT	40	\$ _____	\$ _____
315	12 inch HDPE Storm Sewer Pipe, Trench Detail Type I	FT	106	\$ _____	\$ _____
320	12 inch CL IV RCP Storm Sewer Pipe, Trench Detail Type I	FT	188	\$ _____	\$ _____
321	18 inch CL IV RCP Storm Sewer Pipe, Trench Detail Type I	FT	140	\$ _____	\$ _____
322	30 inch CL IV RCP Storm Sewer Pipe, Trench Detail Type I	FT	70	\$ _____	\$ _____
323	36 inch CL IV RCP Storm Sewer Pipe, Trench Detail Type I	FT	20	\$ _____	\$ _____
324	36 inch CL IV RCP Storm Sewer Pipe, Trench Detail Type V	FT	130	\$ _____	\$ _____
340	Dr Inlet structure, 18 inch Dia, Nyloplast	EA	2	\$ _____	\$ _____
341	Dr Inlet Structure, 24 inch Dia, Nyloplast	EA	1	\$ _____	\$ _____
342	Dr Inlet Structure, 24 inch Dia	EA	7	\$ _____	\$ _____

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(Also must be entered on Page 19)

\$ \_\_\_\_\_

343	Dr Structure, 48 inch Dia	EA	4	\$ _____	\$ _____
344	Dr Structure, 60 inch Dia	EA	3	\$ _____	\$ _____
345	Dr Structure, 72 inch Dia	EA	2	\$ _____	\$ _____
322	Connect to Existing Sanitary Sewer	EA	1	\$ _____	\$ _____
360	Type I Manhole, 48-inch Dia (0-10' deep)	EA	1	\$ _____	\$ _____
374	12 inch HDPE End Section	EA	2	\$ _____	\$ _____
401	6 inch PC 350 DIP w/ polywrap, Trench Detail Type I	FT	40	\$ _____	\$ _____
402	8 inch PC 350 DIP w/ polywrap, Trench Detail Type I	FT	1100	\$ _____	\$ _____
403	8 inch PC 350 DIP w/ polywrap, Trench Detail Type V	FT	40	\$ _____	\$ _____
405	12 inch PC 350 DIP w/ polywrap, Trench Detail Type I	FT	350	\$ _____	\$ _____
406	12 inch PC 350 DIP w/ polywrap, Trench Detail Type V	FT	80	\$ _____	\$ _____
410	8" 22.5° Bend	EA	4	\$ _____	\$ _____
411	8" 45° Bend	EA	8	\$ _____	\$ _____
412	12" 45° Bend	EA	2	\$ _____	\$ _____
413	8"x 6" Reducer	EA	2	\$ _____	\$ _____
414	12"x 8" Reducer	EA	1	\$ _____	\$ _____
430	6"x 6" Tee	EA	1	\$ _____	\$ _____
431	8"x 6"x 8" Tee	EA	2	\$ _____	\$ _____
432	8"x 8" Tee	EA	1	\$ _____	\$ _____
433	12"x 6" Tee	EA	1	\$ _____	\$ _____
440	Fire Hydrant Assembly	EA	4	\$ _____	\$ _____
446	8" Gate Valve-in-Well	EA	3	\$ _____	\$ _____
447	12" Gate Valve-in-Well	EA	1	\$ _____	\$ _____
450	20"x 12" Tapping Sleeve and Valve in Box	EA	1	\$ _____	\$ _____
460	Excavate and Backfill for Water Service Lead	FT	420	\$ _____	\$ _____
470	8 inch PC 350 DIP in 18 inch Steel Casing by Boring & Jacking	FT	50	\$ _____	\$ _____
563	Structure Covers	LBS	9200	\$ _____	\$ _____

TOTAL THIS PAGE (18)  
(Also must be entered on Page 19)

\$ \_\_\_\_\_

566	Adjust Structure Cover	EA	6	\$ _____	\$ _____
567	Adjust Monument Box or Gate Valve Box	EA	4	\$ _____	\$ _____
702	Erosion Control, Inlet Filter	EA	22	\$ _____	\$ _____
703	Erosion Control, Silt Fence	FT	1030	\$ _____	\$ _____
810	Hackberry (Celtis occidentalis), 2.5 inch caliper	EA	2	\$ _____	\$ _____
811	Honeylocust (Gleditsia Triacanthos), 2.5 inch caliper	EA	2	\$ _____	\$ _____
812	Eastern Redbud (Cercis Canadensis), 2.5 inch caliper	EA	4	\$ _____	\$ _____
813	Red Maple, (Acer rubrum), 4 inch caliper	EA	2	\$ _____	\$ _____
814	Northern Red Oak (Quercus Rubra), 2.5 inch caliper	EA	3	\$ _____	\$ _____
815	Amelanchier x grandiflora 'Robin Hill' (Robin Hill Serviceberry), 2.5 inch caliper	EA	3	\$ _____	\$ _____
816	Viburnum Lentago (Nannyberry), 24-36 inch Ht	EA	3	\$ _____	\$ _____
817	Corylus Americana (American Hazelnut), 18-24 inch Ht	EA	3	\$ _____	\$ _____
818	Transplant Tree, 4 inch or less	EA	15	\$ _____	\$ _____

TOTAL THIS PAGE (19) \$ \_\_\_\_\_

TOTAL FROM PAGE 15 \$ \_\_\_\_\_

TOTAL FROM PAGE 16 \$ \_\_\_\_\_

TOTAL FROM PAGE 17 \$ \_\_\_\_\_

TOTAL FROM PAGE 18 \$ \_\_\_\_\_

**TOTAL BID** \$ \_\_\_\_\_



CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TREES AND PLANTINGS**

ST:CJE

1 of 3

3/16/22

**Description**

This work shall consist of planting trees or shrubs, transplanting trees, and placement of shredded bark mulch at the locations shown on the plans or as directed by the Engineer. Work shall be in accordance with Sections 815, 816 and 917 of the 2012 Michigan Department of Transportation Standard Specifications for Construction with the following amendments or additions.

Watering, removing weeds, and completing all necessary tasks to maintain a healthy stand of plants, and Balled and Burlapped (B&B) Trees shall be included in this work.. Extent of work shall include a two year warranty and maintenance period, including but not limited to the following:

1. Watering
2. Weed Control
3. Mulching
4. Disease and Insect Control
5. Pruning
6. Fertilizer Application
7. Removal of Tree Support and Tags

The Contractor shall attend a site walkthrough to review final plantings within the project area.

Tree drip irrigation bags are in addition to planting specifications 815, 816 and 917 of the 2012 Michigan Department of Transportation Standard Specifications.

**Materials**

All planting methods and materials shall conform to Sections 815, 816 and 917 and the planting details shown on the plans. In addition, tree planting shall include and Tree Drip Irrigation Bags and Watering and Cultivating. Tree and plant types and sizes shall be as shown on the Drawings or as directed by the Engineer.

Tree Drip Irrigation Bags shall be Treegator Original 20-gallon slow release watering bags, or approved substitution.

Fertilizer shall be slow release, at minimum 50% derived from a natural, organic source, 12-0-6 or approved substitution.

The Contractor shall submit a minimum size sample of ½-gallon sized container of structural soil and topsoil for approval prior to installation.

The Contractor shall submit to the ENGINEER sources for all plant material.

**Construction Methods**

The construction methods shall be in accordance with the 2012 Michigan Department of Transportation Standard Specifications for Construction Section 815.03 unless otherwise stated

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TREES AND PLANTINGS**

ST:CJE

2 of 3

3/16/22

in this special provision.

All open tree pits shall be excavated to the full extent of their dimensions as shown in the details.

Watering and Cultivating shall follow the schedule in the 2012 Michigan Department of Transportation Standard Specifications for construction Section 815 with the adjustment of filling the tree drip irrigation bags with water and using the fertilizer as dictated in this special provision. For each watering and cultivating visit, verification in the form of a report of maintenance activities and certified payroll covering visits, shall be provided to the owner by the end of each month that the visits have taken place.

Transplanting

Prior to transplanting trees, the Contractor shall attend a meeting with City staff to confirm the trees that will be transplanted and the new proposed planting locations. Trees will be transplanted within the Dicken Woods Nature Area at locations to be agreed upon by the Contractor and City.

Tree transplanting shall be performed by a Contractor with a minimum of 5 years experience transplanting trees and the Contractor shall assign a registered arborist to the project to review the transplanting.

Provide documentation of existing trees to be transplanted, which establishes preconstruction conditions that might be misconstrued as damage caused by construction activities. This shall include detailed photographs and notations indicating conditions that may impact the tree.

The size of the mechanical tree spade to be used for transplanting shall be 10-inches minimum size for every 1-inch of tree caliper. Minimum size spade shall be 48-inches.

The time limitation from digging, removing, transporting, to installing transplanted plant material must be the same day. All transplanting operations must be performed only during periods when beneficial results can be obtained. When drought, excessive moisture, frozen ground or other unsatisfactory conditions prevail, the work must be stopped when directed by the Engineer. The installing site for the plant material must be prepared and excavated prior to removing the plant material.

When there are established lawns, pavements or landscape beds at either the removal or installing sites, the surface features must be protected during the operation. Existing trees, shrubs, and plant beds at the removal or installing sites that are to be preserved must be barricaded and protected from damage.

Backfill soil around the transplanted tree shall include excavated soil mixed with planting soil conditioner of suitable moisture content and shall be free of any extraneous materials harmful to plant growth.

Tree care for transplanted trees shall be in accordance with specifications for planting of new trees.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**TREES AND PLANTINGS**

ST:CJE

3 of 3

3/16/22

**Measurement and Payment**

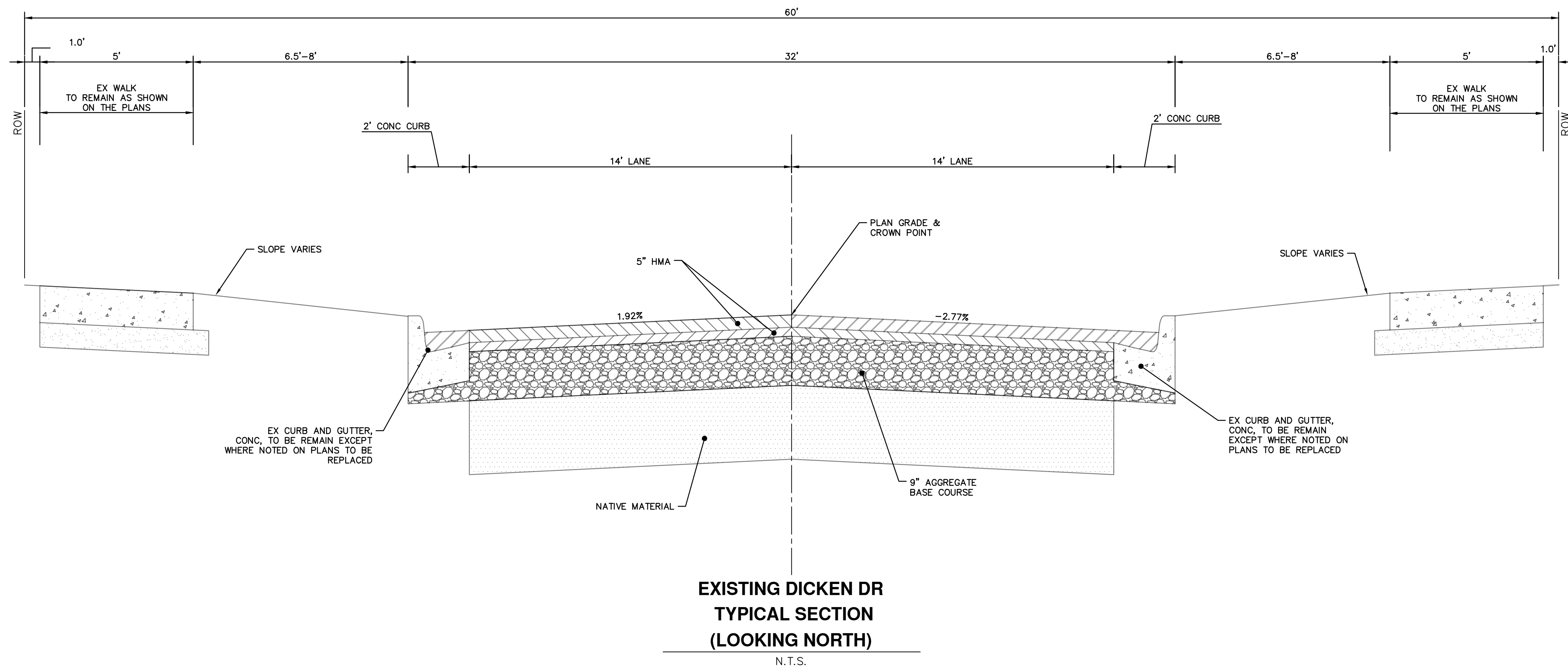
The completed work as measured shall be paid for at the Contract unit price for the following Contract items (pay items):

<b><u>Contract Item (Pay Item)</u></b>	<b><u>Pay Unit</u></b>
Hackberry (Celtis occidentalis), 2.5 inch caliper.....	Each
Honeylocust (Gleditsia Triacanthos), 2.5 inch caliper .....	Each
Eastern Redbud (Cercis Canadensis), 2.5 inch caliper .....	Each
Red Maple, (Acer rubrum), 4 inch caliper .....	Each
Northern Red Oak (Quercus Rubra), 2.5 inch caliper .....	Each
Amelanchier x grandiflora 'Robin Hill' (Robin Hill Serviceberry), 2.5 inch caliper .....	Each
Viburnum Lentago (Nannyberry), 24-36 inch Ht.....	Each
Corylus Americana (American Hazelnut), 18-24 inch Ht .....	Each
Transplant Tree, 4 inch or less .....	Each

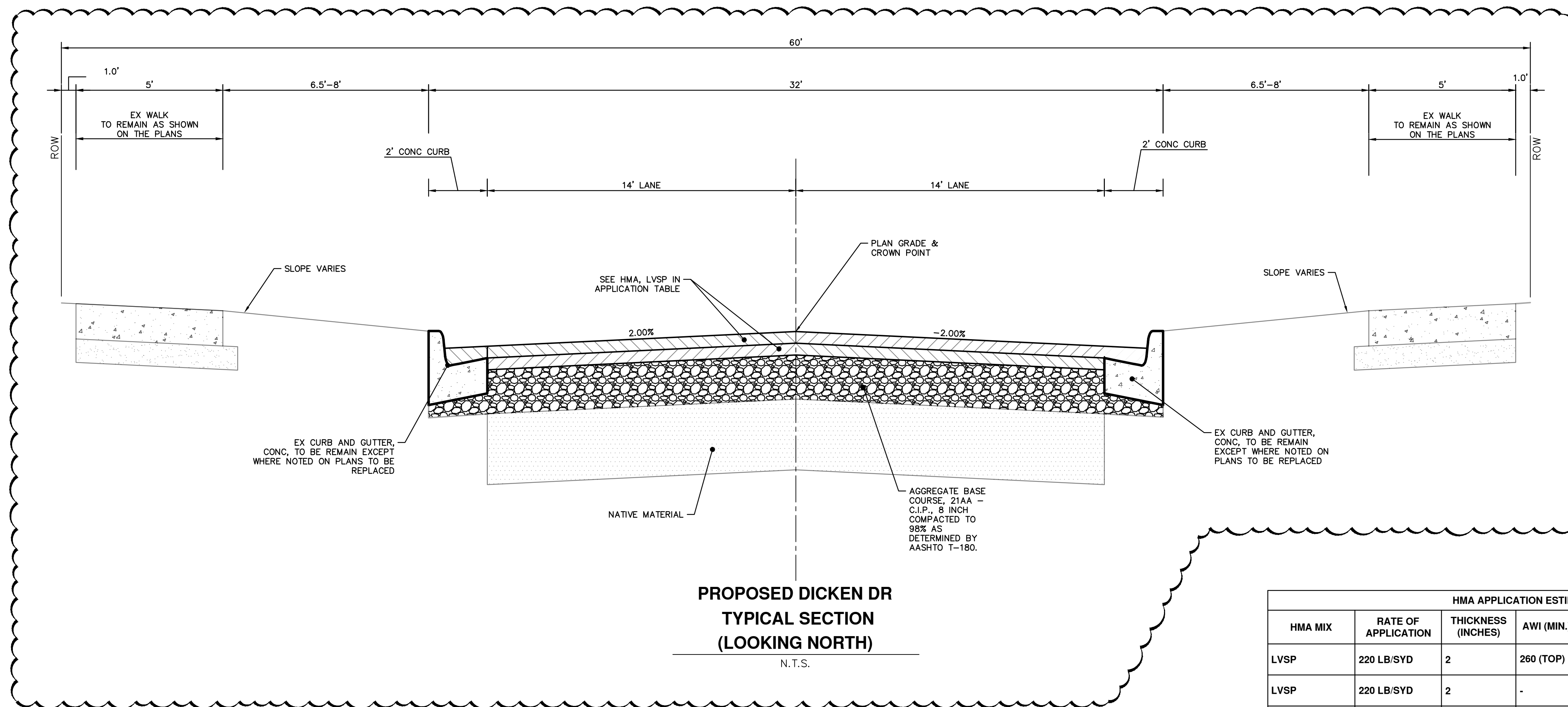
Measurement and payment for the item Trees and Plantings shall include excavation, backfill, topsoil, shredded bark mulch, stakes, guys, tree drip irrigation bags, water, and all other equipment necessary, and as described herein, for a complete installation. Warranty and maintenance for two seasons shall also be included in the prices provided under this allowance.

The final inspection of all planting work under the Contract will be made by the Contractor and Engineer at the end of the maintenance and establishment periods. Before final acceptance is given, the terms of the establishment shall be met and the site shall be cleared of all debris, soil and containers.

C:\Civil\_3D Projects\drawing\151602\_G-101.dwg Dwg Created: 4-May-21 - \_g2 standard bw.stb - Plot Date: 16-Mar-22



**EXISTING DICKEN DR  
TYPICAL SECTION  
(LOOKING NORTH)**  
N.T.S.



**PROPOSED DICKEN DR  
TYPICAL SECTION  
(LOOKING NORTH)**  
N.T.S.

HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
LVSP	220 LB/SYD	2	260 (TOP)	PG 58-28	TOP COURSE
LVSP	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
Bond Coat SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM



Know what's below. Call before you dig.

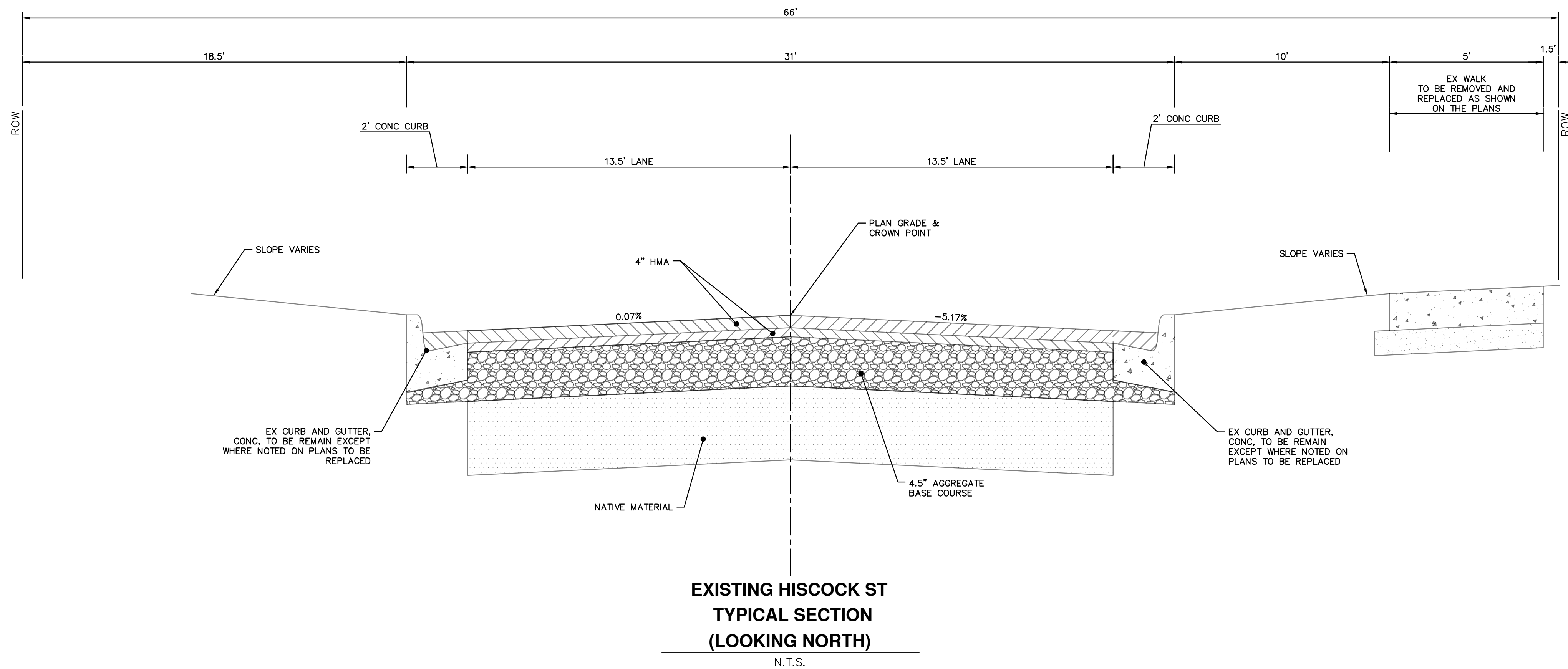
APPENDIX #	DATE	DESCRIPTION	REV.
5	03/16/2022	BWA	C/E
4	02/24/2022	BWA	C/E
3	12/14/2021	BWA	C/E
2	09/23/2021	BWA	C/E
1	06/15/2021	BWA	C/E



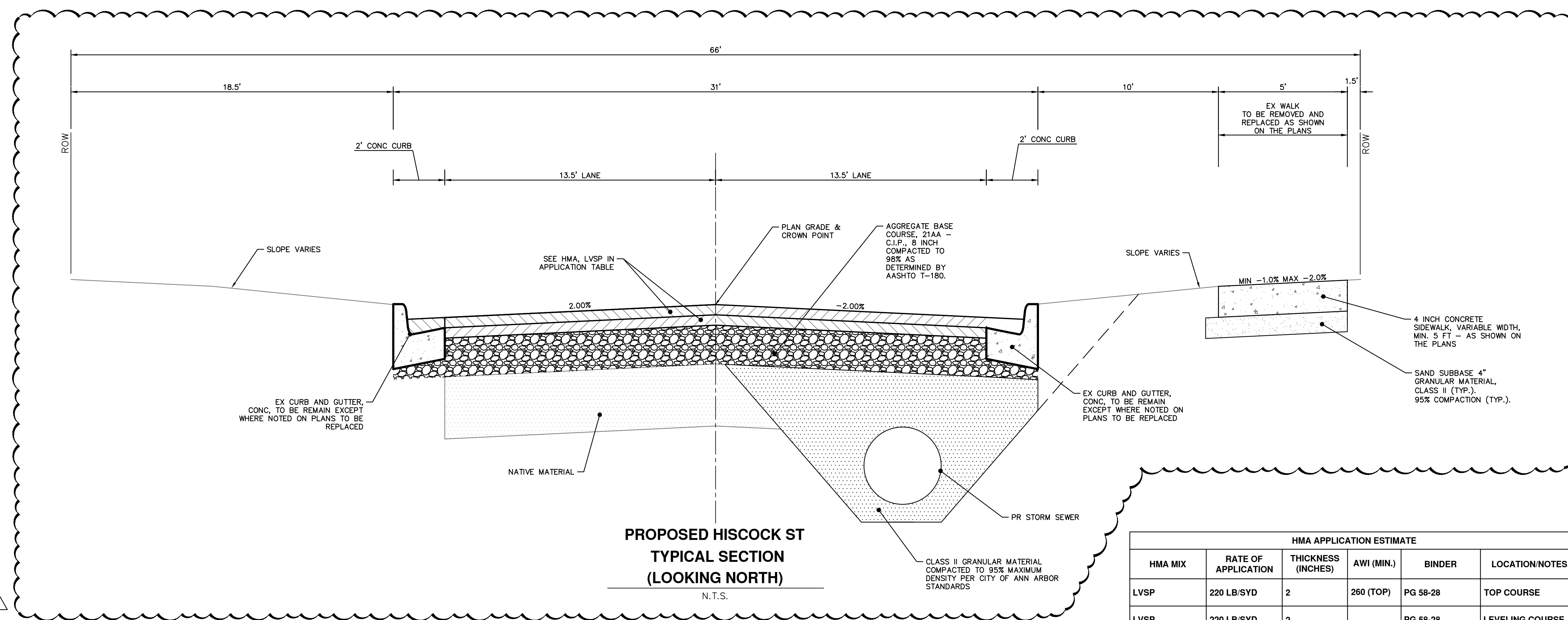
**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
2022 MISC UTILITY PROJECTS  
TYPICAL ROAD SECTIONS  
ROAD CROSS-SECTIONS - DICKEN DRIVE

SCALE: NTS  
DRAWING No. 2021-013-4

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**EXISTING HISCOCK ST  
TYPICAL SECTION  
(LOOKING NORTH)**  
N.T.S.



**PROPOSED HISCOCK ST  
TYPICAL SECTION  
(LOOKING NORTH)**  
N.T.S.

HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
LVSP	220 LB/SYD	2	260 (TOP)	PG 58-28	TOP COURSE
LVSP	220 LB/SYD	2	-	PG 58-28	LEVELING COURSE
Bond Coat SS-1h	0.05 - 0.15 GAL/SYD	-	-	-	INCLUDE IN COST OF HMA ITEM

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**2022 MISC UTILITY PROJECTS**

TYPICAL ROAD SECTIONS

ROAD CROSS-SECTIONS - HISCOCK STREET

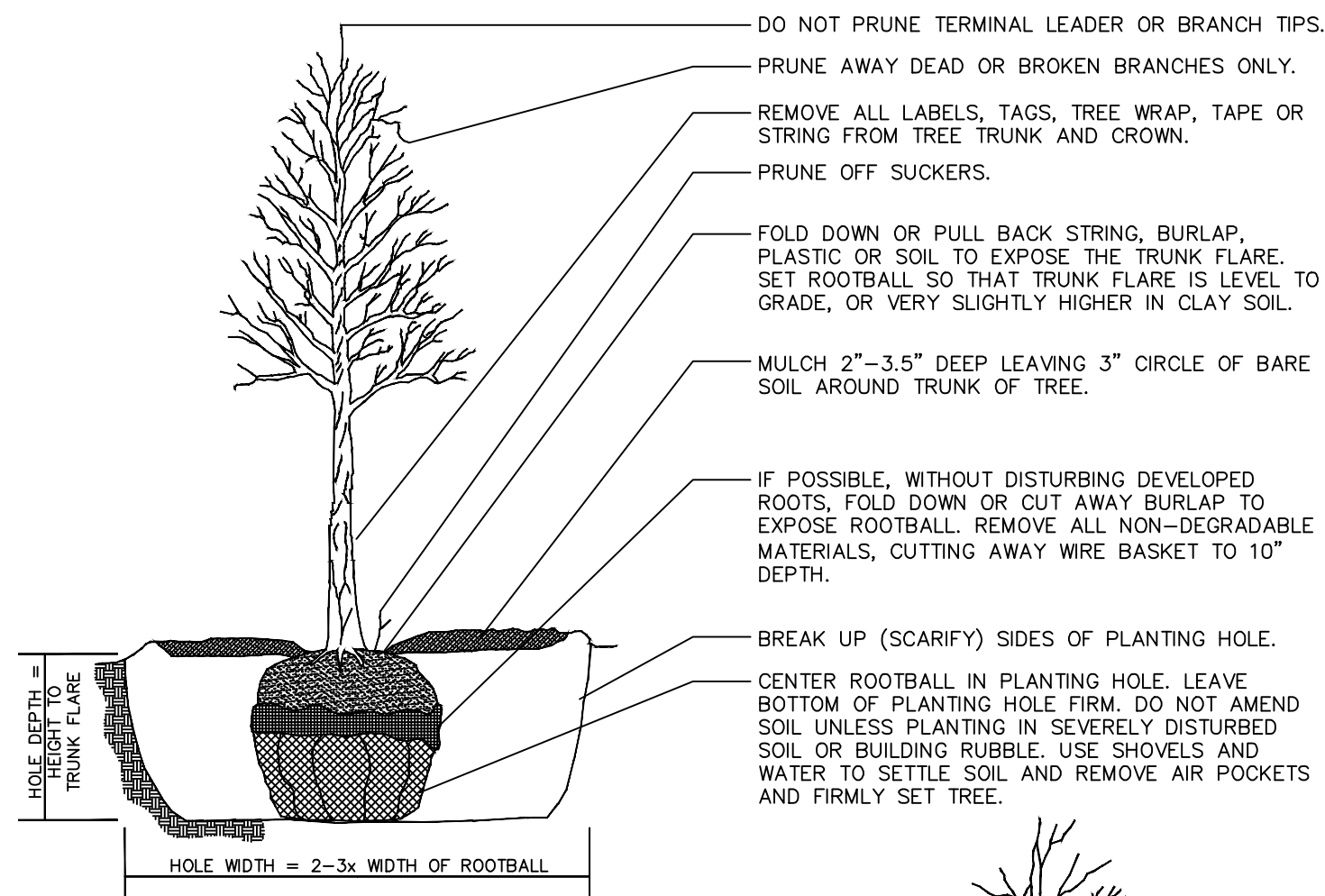
811  
Know what's below.  
Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
5	APPENDIX #1	03/16/2022	BWA	C/E
4	BID SET	02/24/2022	BWA	C/E
3	PERMIT PLAN	12/14/2021	BWA	C/E
2	60% PLAN	09/23/2021	BWA	C/E
1	PRELIMINARY PLAN	06/15/2021	BWA	C/E

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-6647  
734-794-6410  
www.a2gov.org

SCALE: NTS  
DRAWING No. 2021-013-7  
SHEET No. 7 OF 35

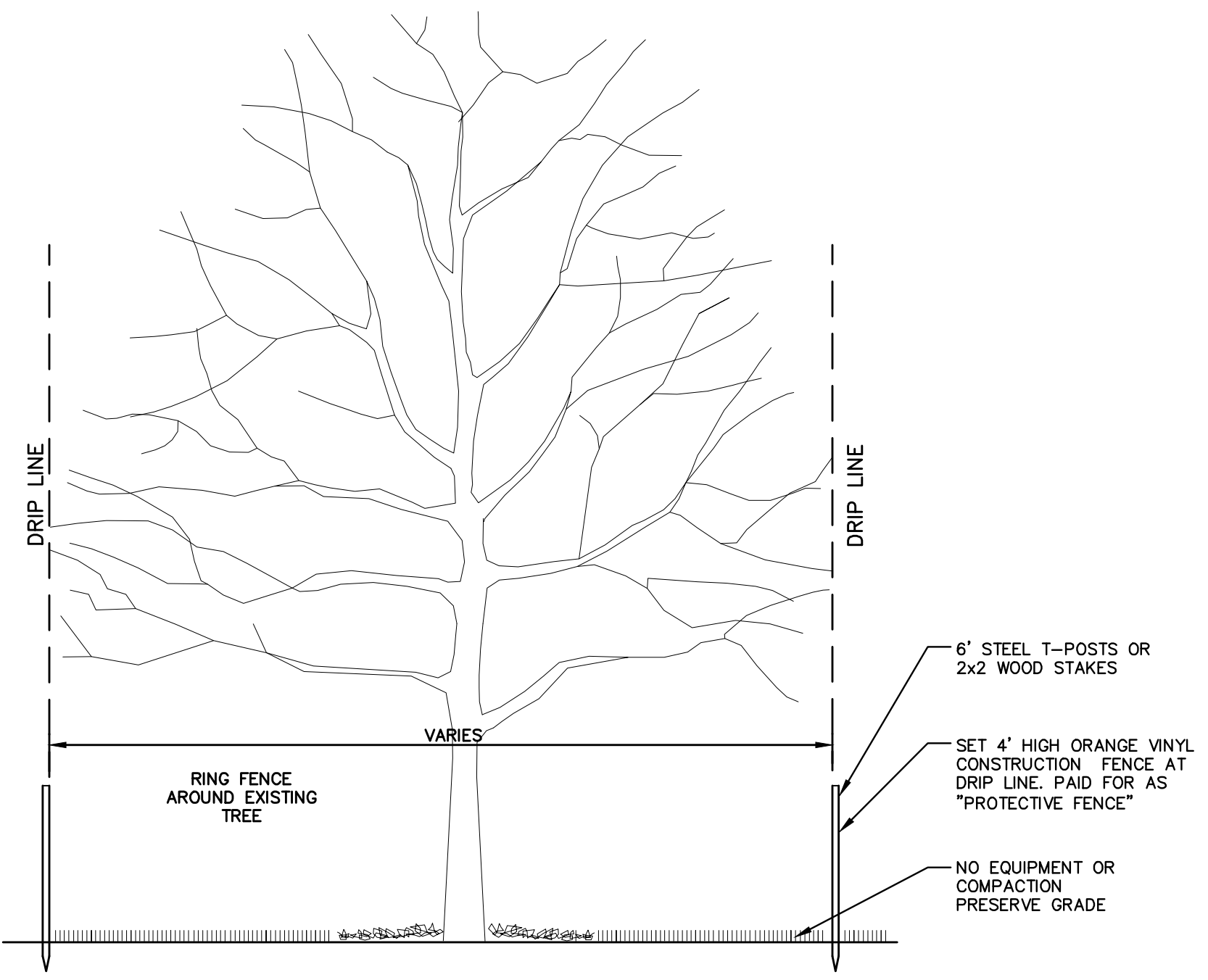
C:\Civil\_3D Projects\drawing\151602\_G-502.dwg Dwg Created: 4-May-21 10:02 standard b.w.stb - Plot Date: 16-Mar-22



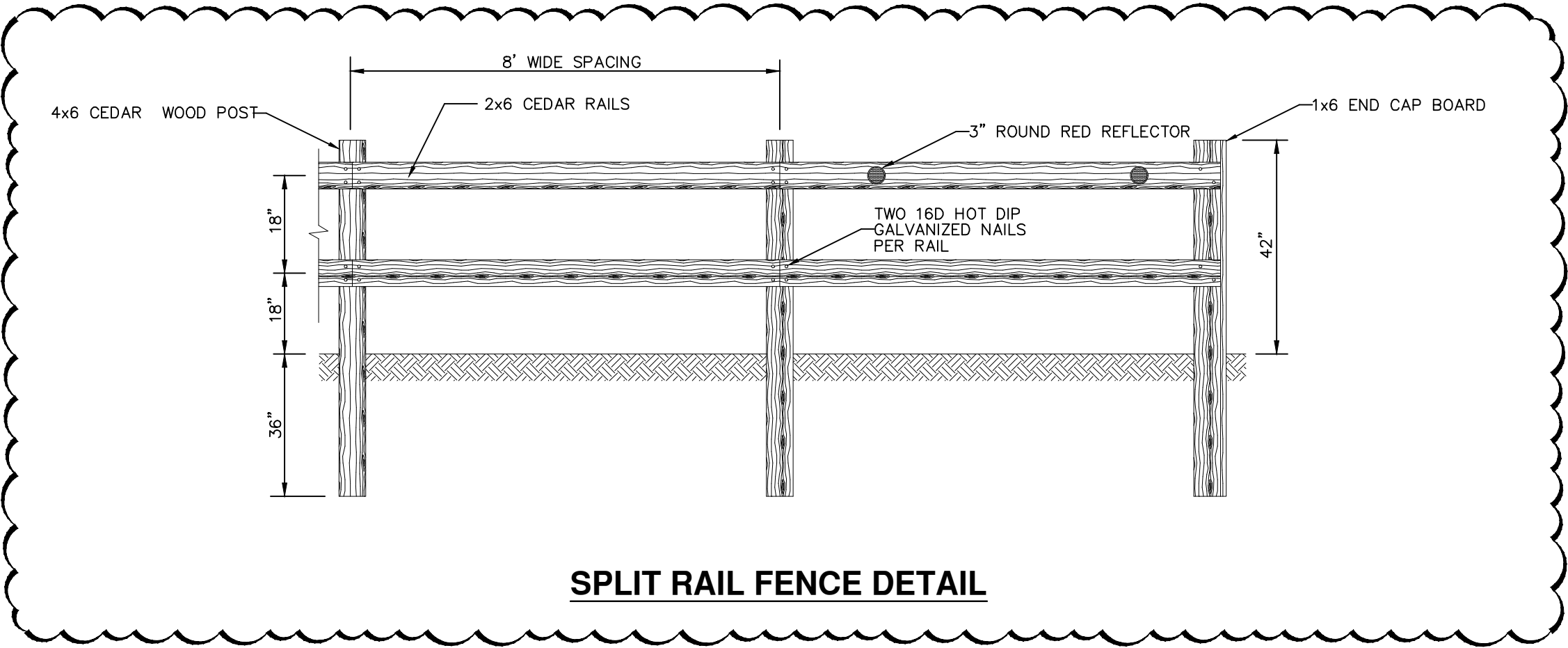
DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR LARGE CROWN. IF STAKING IS NEEDED DUE TO THESE CONDITIONS:

- STAKE WITH 2 x 2 HARDWOOD STAKES, OR APPROVED EQUAL, DRIVEN 6"-8" OUTSIDE OF ROOTBALL.
- LOOSELY STAKE TREE TRUNK TO ALLOW FOR TRUNK FLEXING.
- STAKE TREES JUST BELOW FIRST BRANCH WITH 2"-3" WIDE BELT-LIKE, NYLON OR PLASTIC STRAPS (2 PER TREE ON OPPOSITE SIDES OF TREE, CONNECT FROM TREE TO STAKE HORIZONTALLY. DO NOT USE ROPE OR WIRE THROUGH A HOSE.)
- REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.

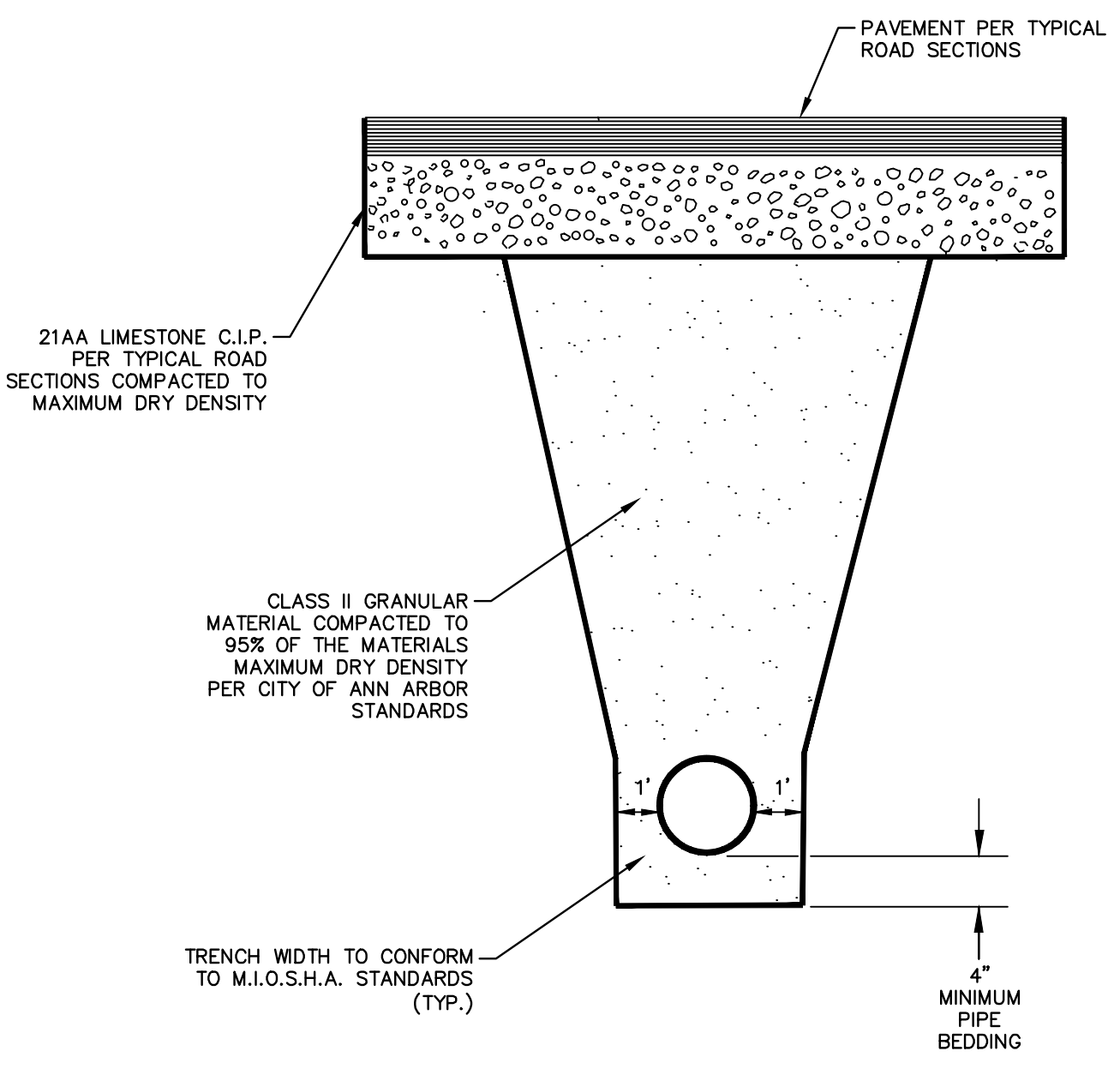
**TREE PLANTING DETAIL**



**TREE PROTECTION DETAIL**

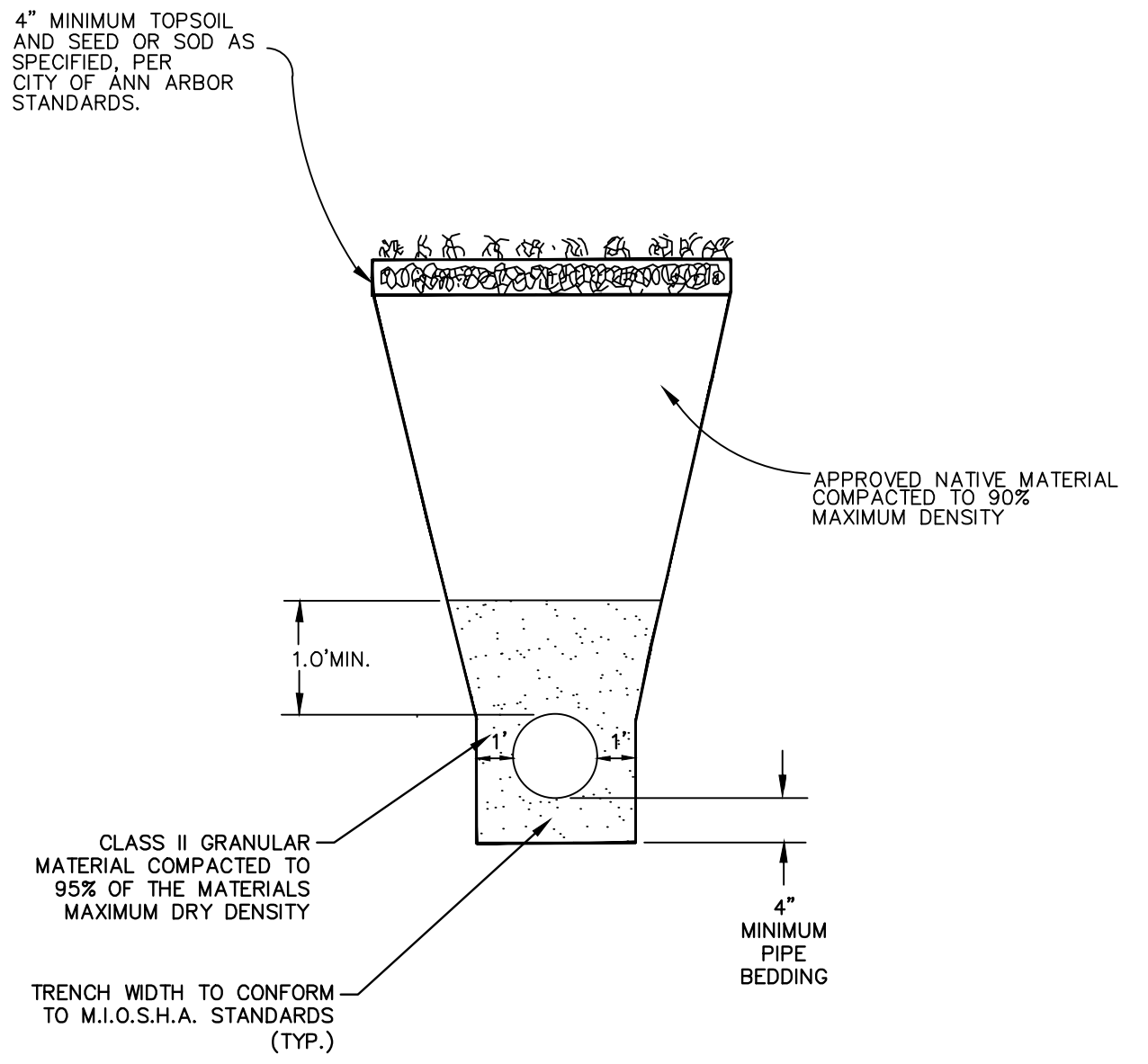


**SPLIT RAIL FENCE DETAIL**

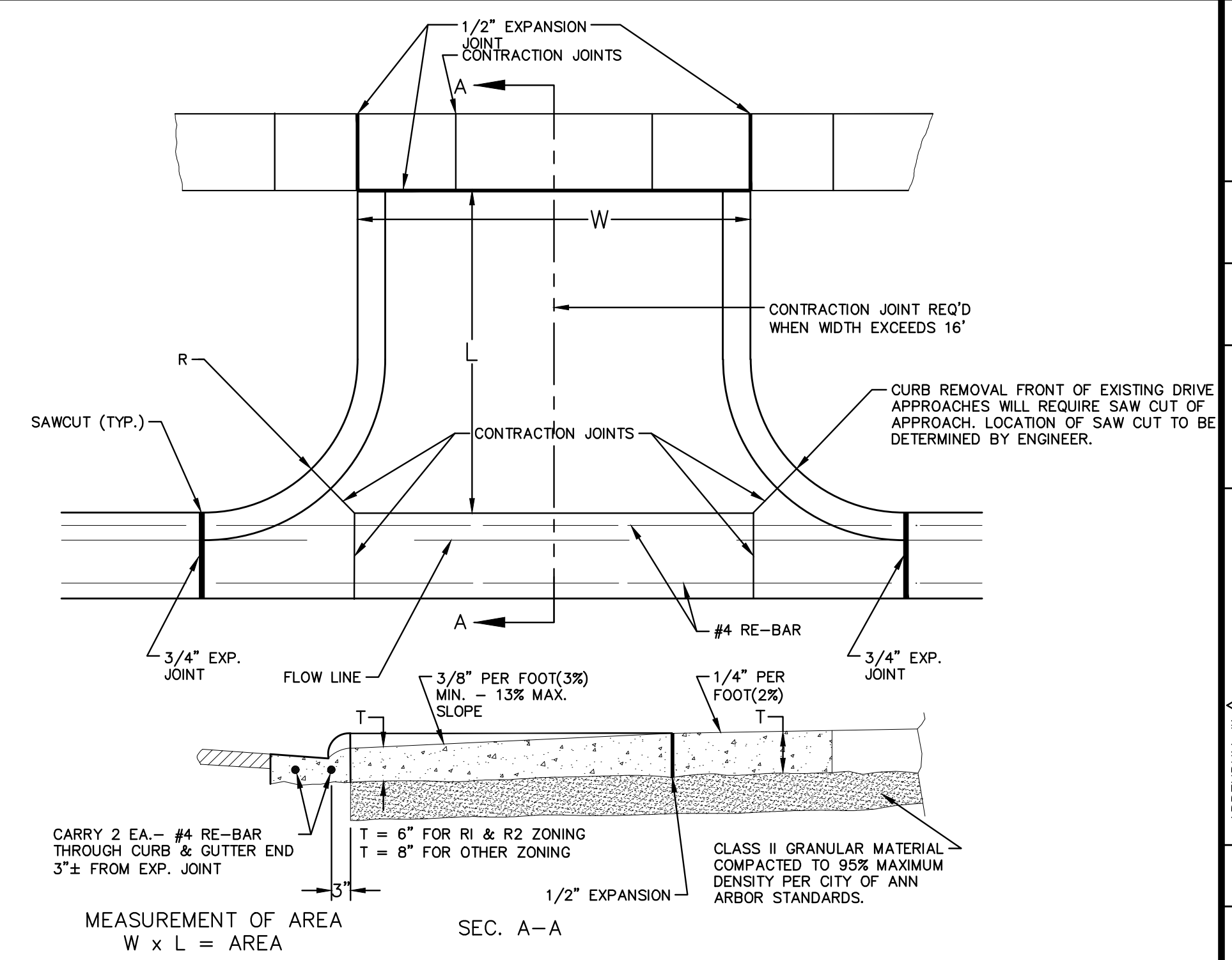


**UTILITY TRENCH - TYPE I**

APPLIES TO WATER MAIN AND SANITARY SEWER WITHIN INFLUENCES OF ALL PAVEMENTS.

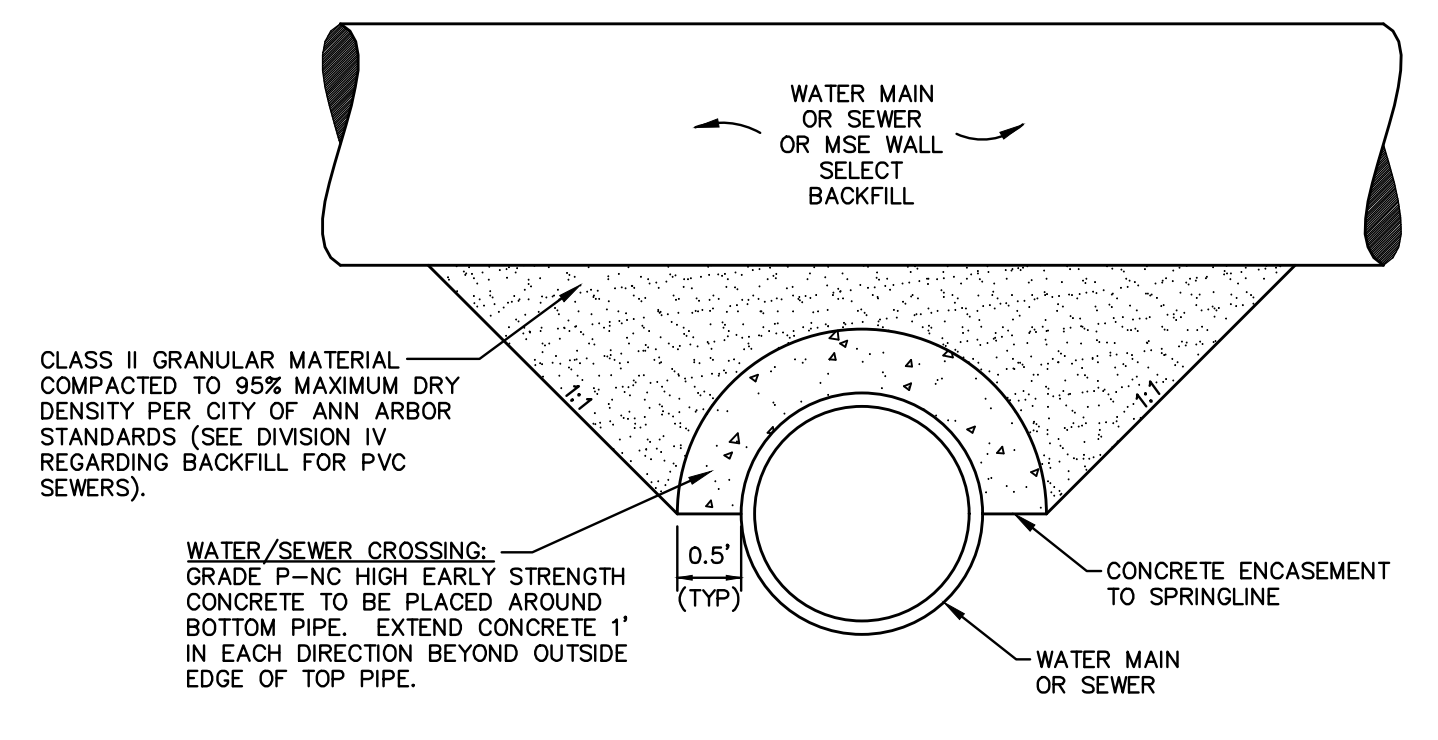


**UTILITY TRENCH - TYPE V**



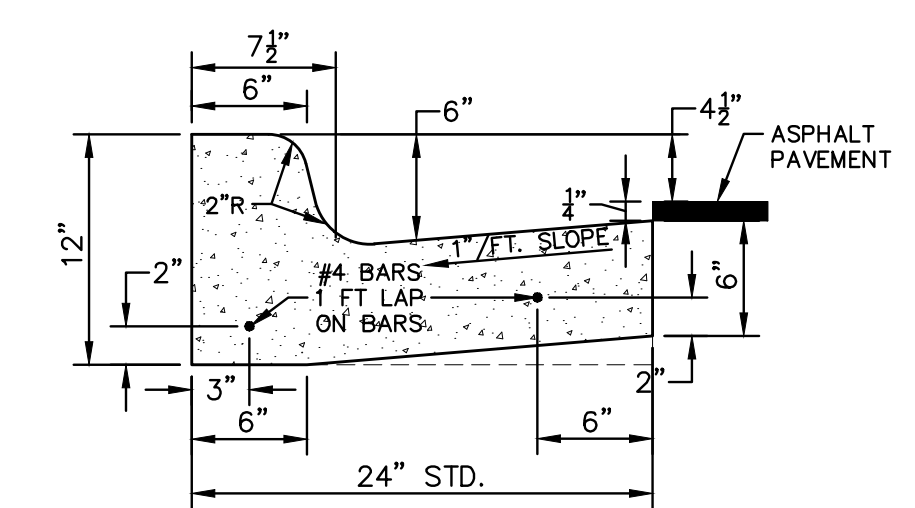
- NOTES:
1. DRIVE APPROACH TO BE CLASS 'A' CONCRETE.
  2. R(RADIUS) AND W(DRIVE WIDTH) AS REQUIRED FOR ZONING BY CITY CODE
  3. IF GUTTER IS OVERLAPPED, GUTTER OF THE APPROACH SHALL BE AT SAME ELEVATION AS EXISTING GUTTER AND ASPHALT WEDGE SHALL BE PLACED IN THE APPROACH.

**TYPE 'M' DRIVE APPROACH SD-R-6**



**CONCRETE UTILITY SADDLE**

APPLIES TO: WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE



**CURB AND GUTTER, CONC, DET F4, SPECIAL**

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

C/E	BWA	BWA	BWA	BWA	BWA	CHECKED
03/16/2022	02/24/2022	12/14/2021	09/23/2021	06/15/2021	DATE	DRAWN
5	4	3	2	1	REV.	DESCRIPTION
ADDITIONAL #	BID SET	PERMIT PLAN	60% PLAN	PRELIMINARY PLAN		

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 2022 MISC UTILITY PROJECTS  
 CONSTRUCTION DETAILS  
 MISCELLANEOUS DETAILS

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 ANN ARBOR  
 734-794-6410  
 www.a2gov.org

SCALE: NTS  
 DRAWING No. 2021-013-11  
 SHEET No. 11 OF 35