

ADDENDUM No. 01

Issued: August 7, 2023

Downtown Road Closure Bollards

City of Northville

OHM Job No.: 0152-23-0080

The following changes, additions, and/or clarifications to the Contract Documents shall be incorporated in said documents and shall be allowed for in the lump sum bid by the Contractor such that the lump sum price indicated in the Bid Form shall represent the conditions as set forth in the Contract Documents and this addendum. This addendum will be included in its entirety in the final, executed version of the Contract Book.

The Bidder shall acknowledge receipt of this addendum on Bid Form Page 1 of their submitted offer.

The following items comprise this Addendum:

Addendum No. 1 – 3 pages

Table of Contents (rev. 08/02/2023) – 2 pages

Specification Section 32 10 00 – 4 pages

Plan Sheets 1-6 (rev. 08/03/2023) – 6 pages

ADDITIONS AND CHANGES TO THE SPECIFICATIONS:

1. Replace Table of Contents with the enclosed version. This change includes the revision to the page numbers.
2. Replace Specification Section 32 10 00 Bases and Paving. This change includes the addition of the “hand patching” section of this document.

ADDITIONS AND CHANGES TO THE DRAWINGS:

3. Replace Plan Sheets 1-6 with the enclosed version. The changes are the following:
 - a. Notes and Details:
 - i. Utility Note #2 was edited to add the following “OF ALL UTILITIES ALONG THE LINE OF BOLLARDS AFTER BOLLARD LAYOUT AT EACH INTERSECTION BUT PRIOR TO INSTALLATION OF ANY BOLLARD IN THE INTERSECTION. CONTRACTOR SHALL ALERT ENGINEER TO ANY CONFLICT AND ADJUST BOLLARD LAYOUT AS REQUIRED TO AVOID UTILITY CONFLICTS.”
 - ii. Traffic notes were added to the sheet.
 - iii. Additional notes were added to the bollard installation detail.
 - iv. Concrete was changed to MDOT standard mix 4,000 PSI concrete.
 - b. Site Plan Sheet Notes: Note #1 was modified.
 - c. Site Plan- Center St and Dunlap St:
 - i. Callout added as follows “FIELD LOCATE EXISTING WATER MAIN PRIOR TO CORING FOR BOLLARD PLACEMENT”

- d. Site Plan- Center St and Main St:
 - i. Callout added as follows “FIELD LOCATE ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CORING FOR THE PROPOSED BOLLARDS.”
- e. Site Plan- Main St & Hutton St:
 - i. Callout added as follows “FIELD LOCATE ALL POTENTIAL UTILITY CONFLICTS PRIOR TO CORING FOR THE PROPOSED BOLLARDS.”

QUESTIONS AND ANSWERS

Question 1: Do we need to include use tax for the bollards that the city is providing? If so, we will need to know the cost of them.

Answer 1: Yes, the Contractor is responsible for use tax based on Michigan RAB 2019-15 Conclusion I.D. The total cost of 42 bollards is \$81,285.78.

Question 2: Do you know what will be required for the traffic control? Has the area already been shut down?

Answer 2: Yes, the area is currently shut down and will be through November 1. The Contractor will need to ensure that pedestrian traffic is also blocked from the work zone, but the vehicular closures have been done by the City.

End of Addendum No. 01

TABLE OF CONTENTS

BIDDING REQUIREMENTS

00 11 13	ADVERTISEMENT FOR BIDS	00 11 13_1
00 21 00	INSTRUCTIONS TO BIDDERS	00 21 00_1-9
00 41 00	BID FORM.....	00 41 00_1-4
00 43 13	BID BOND (PENAL SUM FORM)	00 43 13_1-2
00 44 36	SUBCONTRACTOR LISTING	00 44 36_1-2
00 45 13	STATEMENT OF QUALIFICATIONS	00 45 13_1-10
00 45 14	IRAN LINKED BUSINESS CERTIFICATION	00 45 14_1-2

CONTRACT FORMS

00 51 00	NOTICE OF AWARD.....	00 51 00_1
00 52 13	AGREEMENT.....	00 52 13_1-7
00 55 00	NOTICE TO PROCEED	00 55 00_1
00 61 13	PERFORMANCE BOND	00 61 13_1-4
00 61 13	PAYMENT BOND.....	00 61 13_1-4
00 61 19	MAINTENANCE AND GUARANTEE BOND.....	00 61 19_1-3
00 61 16	CERTIFICATE OF SUBSTANTIAL COMPLETION.....	00 61 16_1
00 65 19	CONTRACTORS AFFIDAVIT	00 65 19_1
00 65 20	CONTRACTORS DECLARATION	00 65 20_1
00 65 76	CONTRACTOR'S APPLICATION FOR PAYMENT	00 65 76_1-2

CONDITIONS OF THE CONTRACT

00 72 00	GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT	00 72 00_1-70
00 73 00	SUPPLEMENTARY CONDITIONS.....	00 73 00_1-10

TECHNICAL SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

01 10 00	SUMMARY	01 10 00_1-4
01 26 00	CONTRACT MODIFICATION PROCEDURES	01 26 00_1-2
01 26 01	WORK CHANGE DIRECTIVE	01 26 01_1
01 29 00	PAYMENT PROCEDURES	01 29 00_1-3
01 31 00	PROJECT MANAGEMENT AND COORDINATION.....	01 31 00_1-6
01 32 00	CONSTRUCTION PROGRESS DOCUMENTATION.....	01 32 00_1-3
01 33 00	SUBMITTAL PROCEDURES	01 33 00_1-8
01 40 00	QUALITY REQUIREMENTS.....	01 40 00_1-6
01 42 00	REFERENCES	01 42 00_1-7
01 73 00	EXECUTION	01 73 00_1-7
01 73 29	CUTTING AND PATCHING.....	01 73 29_1-3
01 74 19	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.....	01 74 19_1
01 77 00	CLOSEOUT PROCEDURES.....	01 77 00_1-3
01 78 39	PROJECT RECORD DOCUMENTS.....	01 78 39_1-2

DIVISION 31

31 23 00	EXCAVATION AND FILL.....	31 23 00_1-16
31 25 00	EROSION AND SEDIMENTATION CONTROL.....	31 25 00_1-3

DIVISION 32

32 10 00	BASES AND PAVING.....	32 10 00_1-4
----------	-----------------------	--------------

APPENDIX A – AMERISTAR SP100 4C INSTALLATION

SECTION 32 10 00 – BASES AND PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Work shall include the furnishing of all labor, materials, tools, equipment, and services necessary for the restoration of the surfaces shown on the drawings and/or as herein required.

Disposal of excess or unsuitable materials shall be considered as part of the work. All such work shall be in accordance with the best modern practice, the Owner's standards, and as specified herein. No permanent surface restoration shall be performed until all underground work has been approved.

- B. This Section includes the following:

- 1. Aggregate base course.
- 2. Bituminous surface, leveling, and base courses.
- 3. Concrete pavement, sidewalk, curb and gutter.

- C. Related Sections

- 1. Division 31 Section "Earth Moving" for excavation, filling and backfilling, and rough grading.

1.3 SUBMITTALS

- A. Prior to performing work under this section, the Contractor shall submit to the Engineer for approval his construction methods and design mixes, sieve analysis, and/or certification of compliance with the 2020 Michigan Department of Transportation (MDOT) Standard Specifications for Construction except where otherwise noted.

1.4 QUALITY ASSURANCE

- A. References to the Michigan Department of Transportation (MDOT) Specifications shall pertain to the 2020 Standard Specifications for Construction.

PART 2- PRODUCTS

1.1 AGGREGATE

- A. Gravel Approaches and Roads: Natural aggregate shall be used for gravel approach (driveways) and road construction and shall meet the requirements of MDOT 21AA or

MDOT 22A as shown in Table 902-1 of the 2020 MDOT Standard Specifications for Construction.

- B. Shoulders: Natural aggregate shall be used for shoulders and shall meet the requirements of MDOT 21AA or 22A as shown in table 902-1 of the 2020 MDOT Standard Specifications for Construction.
- C. Base Course: Natural aggregate shall be used for base course construction and shall meet the requirements of 2020 MDOT 21AA limestone as shown in table 902-1 of the MDOT Standard Specifications for Construction.

2.02 HOT MIX ASPHALT SURFACE, LEVELING and BASE COURSES

- A. Hot mix asphalt materials used for pavement construction shall meet the requirements of Section 501.02 of the 2020 MDOT Standard Specifications for Construction or the requirements of the controlling agency as called for on the construction plans.

2.03 CONCRETE PAVEMENT, SIDEWALKS, CURB AND GUTTER

- A. Concrete used for pavement, sidewalk, and curb and gutter construction shall meet the requirements of MDOT grade 3500 concrete, or the requirements of the controlling agency as called for on the construction plans. Refer to Table 1004-1 of the 2020 MDOT Standard Specifications for Construction. MDOT grade P-NC may also be used where circumstances require the use of a high-early strength concrete. Refer to Table 603-1 and Table 1006-3 of the MDOT Standard Specifications for Construction.

2.04 PAVEMENT MARKINGS

- A. Pavement Marking materials shall meet the requirements shown in Section 920 of the MDOT Standard Specifications for Construction.

PART 3 - EXECUTION

3.01 GENERAL:

- A. The aggregate and pavement thicknesses shown in the following sections are intended to be a guideline for minimum thicknesses. Thicker sections may be required depending upon the requirements of the Owner or the controlling agency. In pavement restoration areas, all pavements shall be restored to the elevation and section that existed prior to construction.

3.02 GRAVEL SHOULDERS

- A. Gravel shoulders shall be constructed as described in Section 307.03 of the 2020 MDOT Standard Specifications for Construction.
- B. Gravel shoulder construction shall consist of placement and compaction of MDOT 21AA limestone or MDOT 22A gravel on a suitable subgrade to form a minimum six (6) inch thick section. The 21AA limestone or 22A gravel shall be compacted to a minimum density of ninety-eight (98) percent of the maximum unit weight. In shoulder restoration areas, the restored shoulder shall match the existing shoulder width.

3.03 AGGREGATE BASE COURSES

- A. Aggregate base courses shall be placed and compacted to the thickness and width as called for on the plan details and as described in Section 302.03 of the 2020 MDOT Standard Specifications for Construction. Unless otherwise indicated in the Contract Documents, aggregate base courses shall be compacted to a minimum density of ninety-eight (98) percent of the maximum unit weight.

3.04 SAWCUTTING

- A. All pavement, curb and gutter, and sidewalk removals shall be accomplished by sawcutting with a power-driven concrete saw. Sawcutting shall be full depth for all pavements (concrete, bituminous, concrete with bituminous overlay).
- B. In bituminous pavement, sawcut lines shall be parallel with pavement joints. Sawcuts shall not be nearer than five (5) feet to a transverse joint, to the center of pavement, or to the edge of pavement such that no existing or replacement pavement section shall be less than five (5) feet in width. If the proposed sawcut is nearer than five (5) feet to a joint or centerline of a pavement, then removal and replacement shall be extended to said joint or centerline.
- C. If an integral concrete curb is to be removed, then the minimum removal width shall be eighteen (18) inches.

3.05 HOT MIX ASPHALT (HMA) PAVEMENT

- A. Hot mix asphalt pavements shall be constructed in accordance with the plan details and Section 501 of the 2020 MDOT Standard Specifications for Construction. Where new asphalt pavement is to adjoin existing asphalt pavement, a two (2) foot wide butt joint shall be constructed. A bond coat shall be applied to the existing pavement surface. Unless otherwise called for in the plan details, the following sections shall apply as a minimum.
 - 1. Bike Paths: 4-inch HMA over 6-inch MDOT 21AA aggregate base.
 - 2. Residential driveways: 3-inch HMA over 6-inch MDOT 21AA aggregate base.
 - 3. Commercial driveways: 6-inch HMA over 8-inch MDOT 21AA aggregate base.
 - 4. Residential streets: 4-inch HMA over 8-inch MDOT 21AA aggregate base.
 - 5. Collector Road: 8-inch HMA over 8-inch MDOT 21AA aggregate base.
 - 6. Parking Lots: 4-inch HMA over 8-inch MDOT 21AA aggregate base.
- B. Where hand patching is required, it shall be 4-inch HMA per the plans and be in accordance with MDOT subsection 501.03.
- C. The laboratory density of HMA pavement shall be determined by the Marshall Procedure ASTM D-1559 using 50 blows on each of the specimens as the compactive effort. One set of three (3) specimens shall be made on the first day of placement and on subsequent days as determined by the Engineer.
- D. The measurement of field-compacted density shall be done with a nuclear gage. The percentage of compaction obtained shall be determined by dividing the field-compacted

density by the laboratory density and multiplying the result by 100. Unless otherwise indicated in the plan details or Contract Documents, all HMA pavements shall be compacted to a minimum calculated density of 97 percent.

- E. Density tests shall be taken on the completed pavement at a frequency of one test every 500 linear feet of paving lane, except for the last unit which will be 500 linear feet, plus any fractional unit less than 250 feet in length or will be a fractional unit of 250 feet or more in length. Miscellaneous areas such as intersections, crossovers and widening lanes less than 250 feet long will be tested as directed by the Engineer.

3.06 CONCRETE PAVEMENT

- A. Concrete pavements shall be constructed in accordance with the drawing details as well as sections 602 and 801 of the MDOT Standard Specifications for Construction. Where new concrete pavement is to be anchored to old pavement, dowel bars and lane ties shall be installed in accordance with MDOT Standard Plans. Joints shall be installed in the new concrete pavement to match existing joint types and locations. Reinforcing steel shall be like that in the existing pavement and shall provide the same cross-sectional area of reinforcement per foot as the existing pavement. Unless otherwise called for in the plan details, the following sections shall apply as a minimum:
 - 1. Residential driveways: 6-inch non-reinforced concrete over 6-inch MDOT 21AA aggregate base.
 - 2. Commercial driveways: 8-inch non-reinforced concrete over 6-inch MDOT 21AA aggregate base.
 - 3. Residential streets: 7-inch non-reinforced concrete over 6-inch MDOT 21AA aggregate base.
 - 4. Collector road: 8-inch non-reinforced concrete over 8-inch MDOT 21AA aggregate base.

3.07 CONCRETE SIDEWALK AND RAMPS

- A. Concrete sidewalks and ramps shall be constructed in accordance with the drawing details and Section 803 of the 2020 MDOT Standard Specifications for Construction. Unless otherwise called for in the details, the following sections shall apply as a minimum:
 - 1. Sidewalks: 4-inch concrete over 4-inch sand base.
 - 2. Sidewalks (at residential drive): 6-inch concrete over 4-inch sand base.
 - 3. Sidewalks (at commercial drive): 8-inch concrete over 6-inch aggregate base.
 - 4. Curb ramps: 6-inch concrete over 4-inch sand base.

3.08 CONCRETE CURB and GUTTER

- A. Concrete curbs and gutters shall be constructed in accordance with the drawing details and Section 802 of the 2020 MDOT Standard Specifications for Construction.

END OF SECTION

CITY OF NORTHVILLE
WAYNE COUNTY, MICHIGAN
DOWNTOWN ROAD CLOSURE BOLLARD INSTALLATION

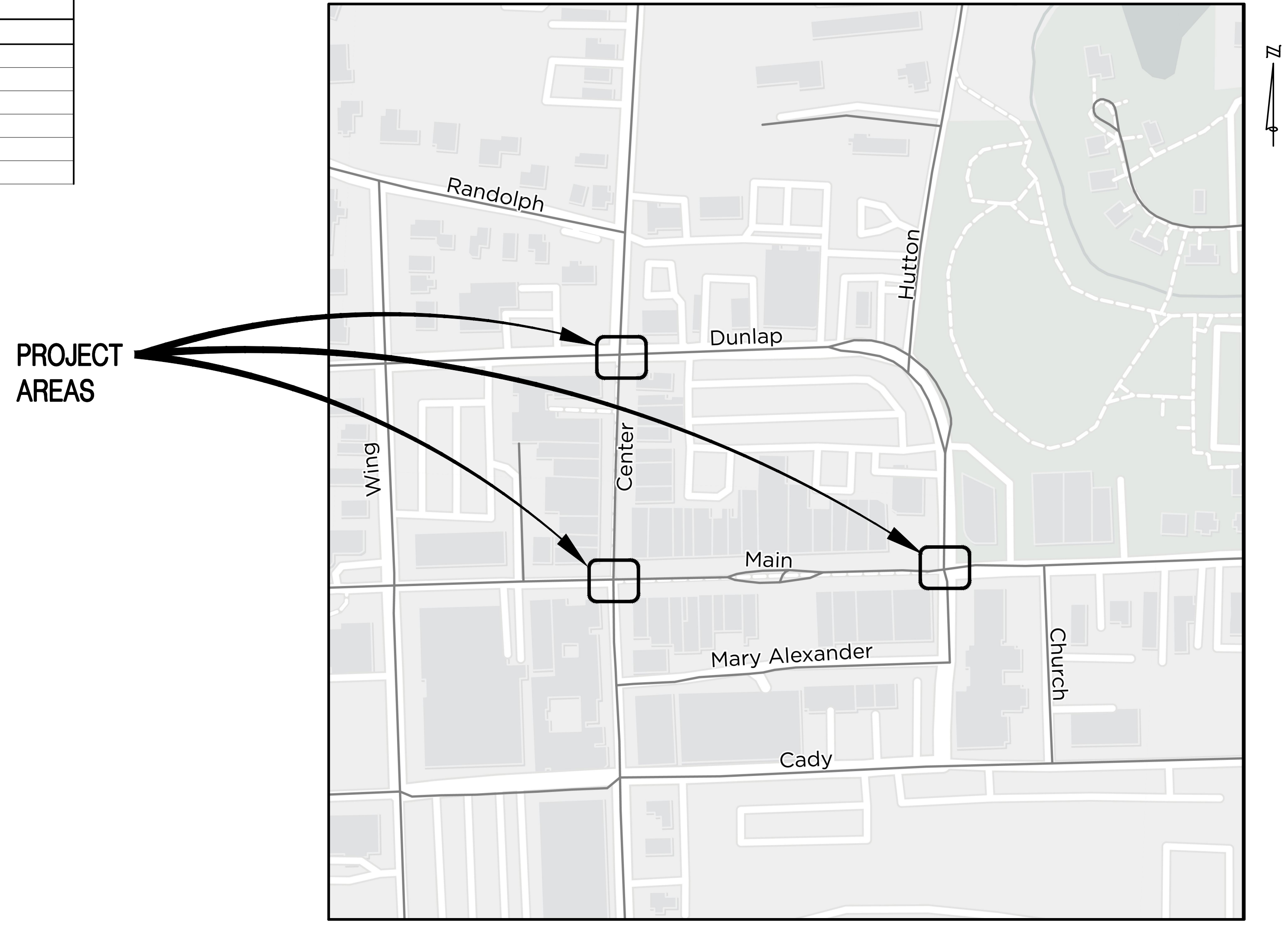
CITY OF NORTHVILLE
CITY COUNCIL

BRIAN TURNBULL
• MAYOR •

BARBARA MOROSKI-BROWNE
• MAYOR PRO-TEM •

JOHN CARTER
ANDREW KRENZ
MARILYN PRICE
• COUNCIL MEMBERS •

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND
3	GENERAL NOTES AND DETAILS
4	SITE PLAN – CENTER ST & DUNLAP ST
5	SITE PLAN – CENTER ST & MAIN ST
6	SITE PLAN – MAIN ST & HUTTON ST



LOCATION MAP
N.T.S.


GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS DATED 7–24–2017.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF NORTHVILLE WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACTS 173 & 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF NORTHVILLE.

THE ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.


CONTRACT FOR:
THE INSTALLATION OF 42 BOLLARDS IN THE DOWNTOWN INTERSECTIONS OF THE CITY OF NORTHVILLE.



Advancing Communities

34000 Plymouth Road | Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427

PREPARED UNDER THE SUPERVISION OF:



64386
Registration No.
7/25/2023
Date

CLAIRE MARTIN

REVISIONS

BID DOCUMENTS– 07/31/2023




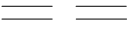












ADDENDUM NO. 1– 08/03/2023

PROJECT NO.
0152–23–0080










SHEET NO.
1

DRAWING PATH: P:\0125 01650162230080 Downtown Road Closure Bollards\Drawings\Civil\Misc\230080\LEG.dwg Aug 03, 2023 - 1:14pm

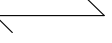


WATER & SEWER UTILITY SYMBOLS

EXISTING	
	STORM MANHOLE
	SQUARE CATCH BASIN
	ROUND CATCH BASIN
	CULVERT
	CULVERT W/O END SECTION
	CULVERT W/END SECTION
	SANITARY MANHOLE
	CLEAN OUT
	GATE VALVE & WELL
	GATE VALVE & BOX
	WATER STOP BOX
	FIRE HYDRANT
	METER PIT
	WATER METER
	SPRINKLER HEAD
	IRRIGATION VALVE

























PROPOSED

	STORM MANHOLE
	INLET/CATCH BASIN
	CULVERT END SECTION
	SANITARY MANHOLE
	GATE VALVE & WELL
	GATE VALVE & BOX
	TAPPING SLEEVE VALVE & WELL
	TAPPING SLEEVE VALVE & BOX
	FIRE HYDRANT























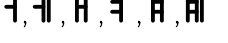

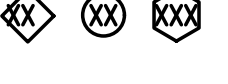

REAL ESTATE SYMBOLS

	CONTIGUOUS PROPERTY SYMBOL
	PARCEL NUMBER BOX
	NO ROW IMPACTS





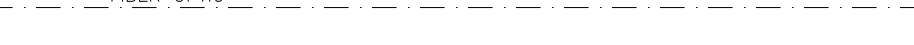




MISCELLANEOUS UTILITY SYMBOLS

EXISTING	
	GUY WIRE
	GUY POLE
	UTILITY POLE
	UTILITY POLE W/LIGHT
	LIGHT/DECOR LAMP POLE
	FLOOD LIGHT
	GAS VALVE
	GAS VENT
	GAS METER
	GAS RISER
	TRAFFIC SIGNAL
	PEDESTRIAN RISER
	TRANSFORMER PAD
	PRIVATE UTILITY MANHOLE
	RAILROAD CROSSING
	ELECTRIC METER
	PHONE BOOTH
	TRAFFIC SIGNAL CONTROLLER
	HAND HOLE
	ELECTRIC RISER
	TELEPHONE RISER
	CABLE TV RISER
	MONITORING WELL
	UNDERGROUND MARKER


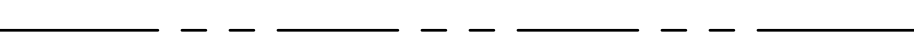
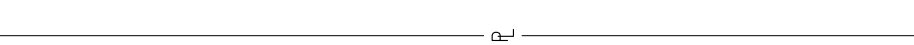
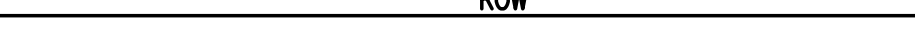
MISCELLANEOUS SYMBOLS

EXISTING	
	RIPRAP
	SIGN
	FLOW DIRECTION
	STUMP
	WETLAND
	CONIFEROUS TREE
	DECIDUOUS TREE
	CONIFEROUS SHRUB
	DECIDUOUS SHRUB
	SOIL BORING
	SECTION CORNER
	MONUMENT
	IRON ROD/PIPE
	PK NAIL
	BENCHMARK
	TRAVERSE POINT
	MAIL/NEWSPAPER BOX
	FLAG POLE
	POST
	USED WITH UNDERGROUND GAS & ELECTRICAL LINES
	USED WITH TELEPHONE & FIBER OPTIC LINES
PROPOSED	
	RIPRAP
	SIGN
	FLOW DIRECTION
	STRUCTURE NUMBER WM SAN STM
	ADA SIDEWALK RAMP

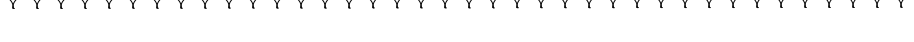

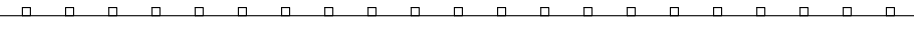

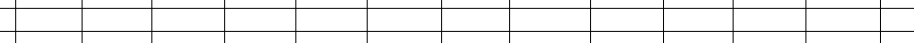
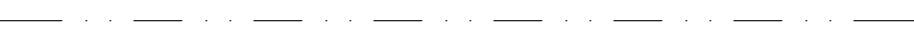
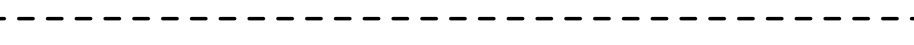

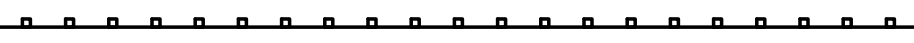
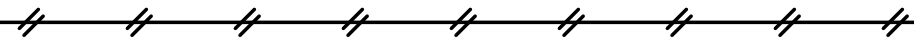
UTILITY PATTERN

EXISTING	
	ELECTRICAL *
	GAS\OIL
	CABLE/TELEPHONE *
	FIBER OPTIC *
	WATER
	SANITARY
	STORM
PROPOSED	
	STORM/SANITARY/WATER
	PRIMARY UTILITY WILL HAVE A CONTINUOUS LINESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LINESTYLE
*O.H. = OVERHEAD , U.G. = UNDERGROUND	


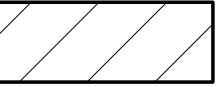
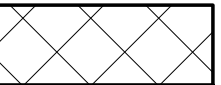






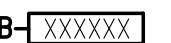

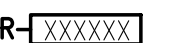




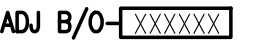
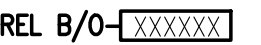
ROW PATTERN

EXISTING	
	ROW
	SECTION
	PROPERTY/PARCEL
PROPOSED	
	ROW

TOPO PATTERN

EXISTING	
	HEDGE/TREE
	FENCE
	GUARDRAIL
	CENTERLINE OF DITCH
	RAILROAD
	WETLAND/EDGE OF WATER
PROPOSED	
	GRADING LIMIT (SLOPE STAKE)
	CENTERLINE OF DITCH
	GUARDRAIL
	FENCE

REMOVAL LEGEND

	SIDEWALK REMOVAL
	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	COLD MILLING HMA SURFACE
	HMA BASE CRUSHING AND SHAPING
	EXCAVATION, EARTH, MODIFIED
	CURB AND GUTTER, REM
	TREE, REM
	SALVAGE
	BULKHEAD
	ABANDON
	REMOVE
	ADJUST
	RELOCATE
	RECONSTRUCT
	REMOVE BY OTHERS
	ADJUST BY OTHERS
	RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

	SALVAGE
	BULKHEAD
	ABANDON
	CLEARING
	REMOVE
	RELOCATE
	RECONSTRUCT
	RELOCATE BY OTHERS
	ADJUST BY OTHERS

SPECIAL LEGEND

	MANUALLY RETRACTABLE BOLLARD
---	------------------------------

DRAWING PATH: \\ohm\dfs\Corporate\Projects\0126_0185\0152230080_Downtown_Road_Closure_Bollards\Drawings\Civil\Misc\230080NOT.dwg Aug 04, 2023 - 1:39pm

GENERAL

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION EXCEPT AS NOTED HEREIN AND IN THE CONTRACT DOCUMENTS.
- LIMITATIONS ON PRIVATE WORK: DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT, UNLESS GIVEN WRITTEN CONSENT OF THE OWNER.
- THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND CITY CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR FOR ANY OTHER CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.
- WHEN THE CONTRACTOR FAILS TO PERFORM THE DUTIES AS CALLED FOR ON THESE PLANS AND IN THE CONTRACT, THE ENGINEER MAY REQUIRE CITY FORCES TO PERFORM WORK, WITH OR WITHOUT NOTIFICATION TO THE CONTRACTOR OR THE SURETY. THE CONTRACTOR WILL BE CHARGED EQUIPMENT RENTAL RATES AS ESTABLISHED BY THE CITY. TIME CHARGED TO THE CONTRACTOR SHALL BE FROM THE TIME THAT THE WORKFORCE AND EQUIPMENT LEAVE THE CITY YARD TO THE TIME THAT THEY RETURN TO THE CITY YARD.
- ALL AREAS DISTURBED OUTSIDE THE PROJECT LIMITS BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHALL BE RESTORED AS SPECIFIED OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE AREAS OF WORK, INCLUDING BUT NOT LIMITED TO EXISTING PAVEMENT, UTILITIES, SITE FURNISHINGS, FENCING, LAWN, TREES, SPRINKLER SYSTEMS, AND SHRUBBERY.
- THE CONTRACTOR SHALL RELOCATE DISTURBED ORNAMENTAL OBJECTS AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.
- DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- UNTIL THE FINAL ACCEPTANCE OF THE PROJECT, ANY RANDOM, IRREGULARLY CRACKED NEW CONCRETE THAT OCCURS SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. ADEQUATE CARE SHALL BE TAKEN AT ALL TIMES.
- CROSSWALKS, SIDEWALKS, AND CURBS MUST BE PROTECTED DURING CONSTRUCTION. DAMAGE TO EXISTING CROSSWALKS, SIDEWALKS, AND CURBS DUE TO CONSTRUCTION TRAFFIC MUST BE REPAIRED AT CONTRACTOR'S EXPENSE.
- ANY PERMANENT SIGNS REQUIRING RELOCATION DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE SALVAGED AND RESET BY THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE ENGINEER. SIGNS AND POST DAMAGED DURING THE REMOVAL AND STORAGE OPERATION SHALL BE REPLACED WITH NEW SIGNS AND POST BY THE CONTRACTOR AT THEIR SOLE EXPENSE. ALL SIGN SALVAGES SHALL BE RESET IMMEDIATELY.
- THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR STORE ANY EQUIPMENT AND MATERIALS ON PRIVATE PROPERTY. ALL WORK SHALL BE CONFINED TO THE CONSTRUCTION LIMITS SHOWN ON THE PLANS UNLESS AUTHORIZED IN ADVANCE BY THE ENGINEER.
- EARTH DISTURBANCE LIMITS FOR THIS PROJECT ARE SHOWN ON THE PLANS. RESTORATION MEASURES HAVE BEEN INCLUDED IN THE 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 SOLE EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR POSTAL SERVICE AND REFUSE COLLECTION TO ALL PROPERTIES AT ALL TIMES. ACCESS SHALL ALSO BE MAINTAINED FOR EMERGENCY SERVICES, INCLUDING POLICE, FIRE AND EMERGENCY RESPONSE PERSONNEL AND EQUIPMENT, AT ALL TIMES.

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

- | | |
|---|--|
| 1. CITY OF NORTHVILLE PUBLIC WORKS
215 W MAIN STREET
NORTHVILLE, MI 48167
ATT: MIKE DOMINE
PH: 248-305-2708 | 5. FOR TELEPHONE:
ATT
550 S. MAPLE ROAD
ANN ARBOR, MI 48103
ATTN: CRAIG MCCREIGHT
PH: 248-494-2735 |
| 2. FOR ELECTRIC:
DTE ELECTRIC
8001 HAGGERTY ROAD
BELLEVILLE, MI 48111
ATTN: SARA KIPP
PH: 734-397-4321 | 6. FOR CABLE TELEVISION:
COMCAST CABLE
25626 TELEGRAPH ROAD
SOUTHFIELD, MI 48034
ATTN: JEFF DOBIES
PH: 734-359-1669 |
| 3. FOR GAS:
CONSUMERS ENERGY
11801 FARMINGTON ROAD
LIVONIA, MI 48150
ATTN: CHRIS SCHENIEDER
PH: 734-513-6277 | 7. FOR FIBER OPTIC
MCI/VERIZON
PH: 800-624-9675 |
| 4. FOR FIBER OPTIC
COMCAST
ATTN: JEFF DOBIES
PH: 734-359-1669 | |

REMOVALS

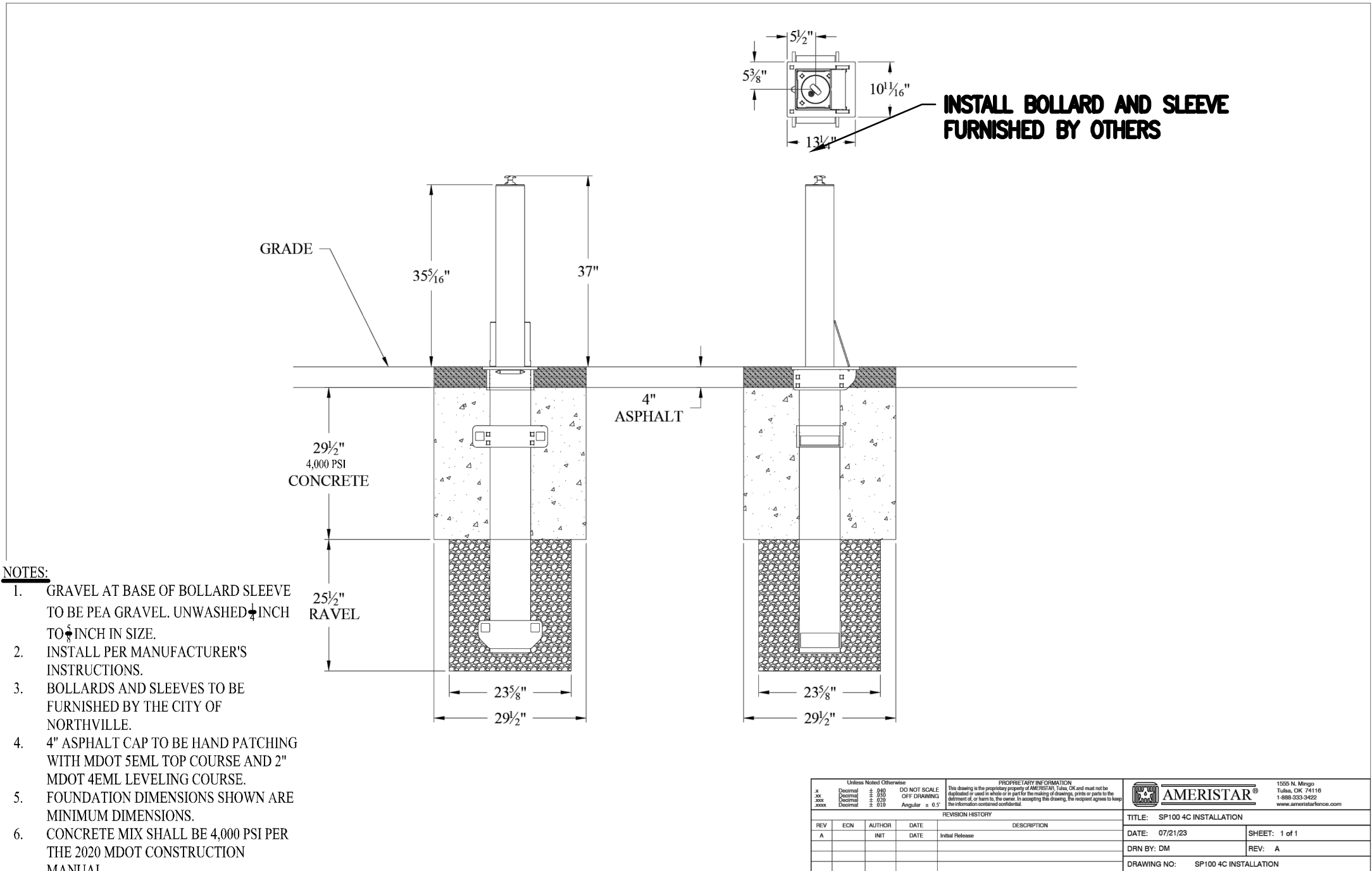
- SAW CUTTING AND/OR CORING FOR PAVEMENT REMOVAL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE TO THE DEPTH REQUIRED FOR PROPER REMOVAL OF PAVEMENTS, WHILE PREVENTING SPALLING, CHIPPING, OR DAMAGE TO EXISTING PAVEMENT, EDGES LEFT IN PLACE.
- THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT SURFACE AND SUBGRADE, AS DIRECTED BY THE ENGINEER, TO A SUFFICIENT DEPTH IN ORDER TO CONSTRUCT THE BOLLARD FOUNDATIONS.
- PAVEMENT REMOVAL AS SHOWN ON THE PLANS SHALL BE AT THE DISCRETION OF THE ENGINEER. IF IN HIS/HER JUDGEMENT, AREAS OF PAVEMENT MAY BE LEFT IN PLACE, OR ADDITIONAL AREAS ADDED, TO PROVIDE THE PROPER BOLLARD FOUNDATION, ADJUSTMENTS CAN BE MADE IN THE QUANTITIES.
- SAW CUTS ARE NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE REMOVAL ITEMS.
- MISS DIG RULES APPLY PRIOR TO SAW CUTTING AND REMOVAL IF UTILITIES ARE EXPECTED OR ENCOUNTERED, HAND DIGGING OR POT HOLING AT THE BOLLARD FOUNDATION LOCATIONS SHALL BE CONDUCTED AT NO ADDITIONAL EXPENSE TO THE OWNER.

UTILITY NOTES

- FOR PROTECTION OF UNDERGROUND UTILITIES AND CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS OF THE 'MISS DIG' ALERT SYSTEM WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE 'MISS DIG' ALERT SYSTEM.
- THE LOCATIONS SHOWN FOR ALL PUBLIC UTILITIES, INCLUDING WATER SERVICE AND SANITARY SEWER LEADS ARE BASED ON BEST AVAILABLE INFORMATION. NO GUARANTEE IS MADE REGARDING THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATION(S) OF ALL UTILITIES ALONG THE LINE OF THE BOLLARDS AFTER BOLLARD LAYOUT AT EACH INTERSECTION BUT PRIOR TO INSTALLATION OF ANY BOLLARD IN THE INTERSECTION. CONTRACTOR SHALL ALERT ENGINEER TO ANY CONFLICT AND ADJUST BOLLARD LAYOUT AS REQUIRED TO AVOID UTILITY CONFLICTS.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION.

TRAFFIC NOTES

- MAIN STREET AND CENTER STREET ARE CURRENTLY CLOSED TO VEHICULAR TRAFFIC FOR SEASONAL CLOSURES. STREETS MUST BE OPEN TO TRAFFIC BY NOVEMBER.
- PEDESTRIAN TRAFFIC MUST BE MAINTAINED DURING CONSTRUCTION.



BOLLARD INSTALLATION DETAIL



PRELIMINARY - NOT FOR CONSTRUCTION

ISSUED FOR BIDDING	2023/07/31
REVISION	DATE
07/01/2023 FOR BIDDING	
08/01/2023 ADDENDUM NO. 1	

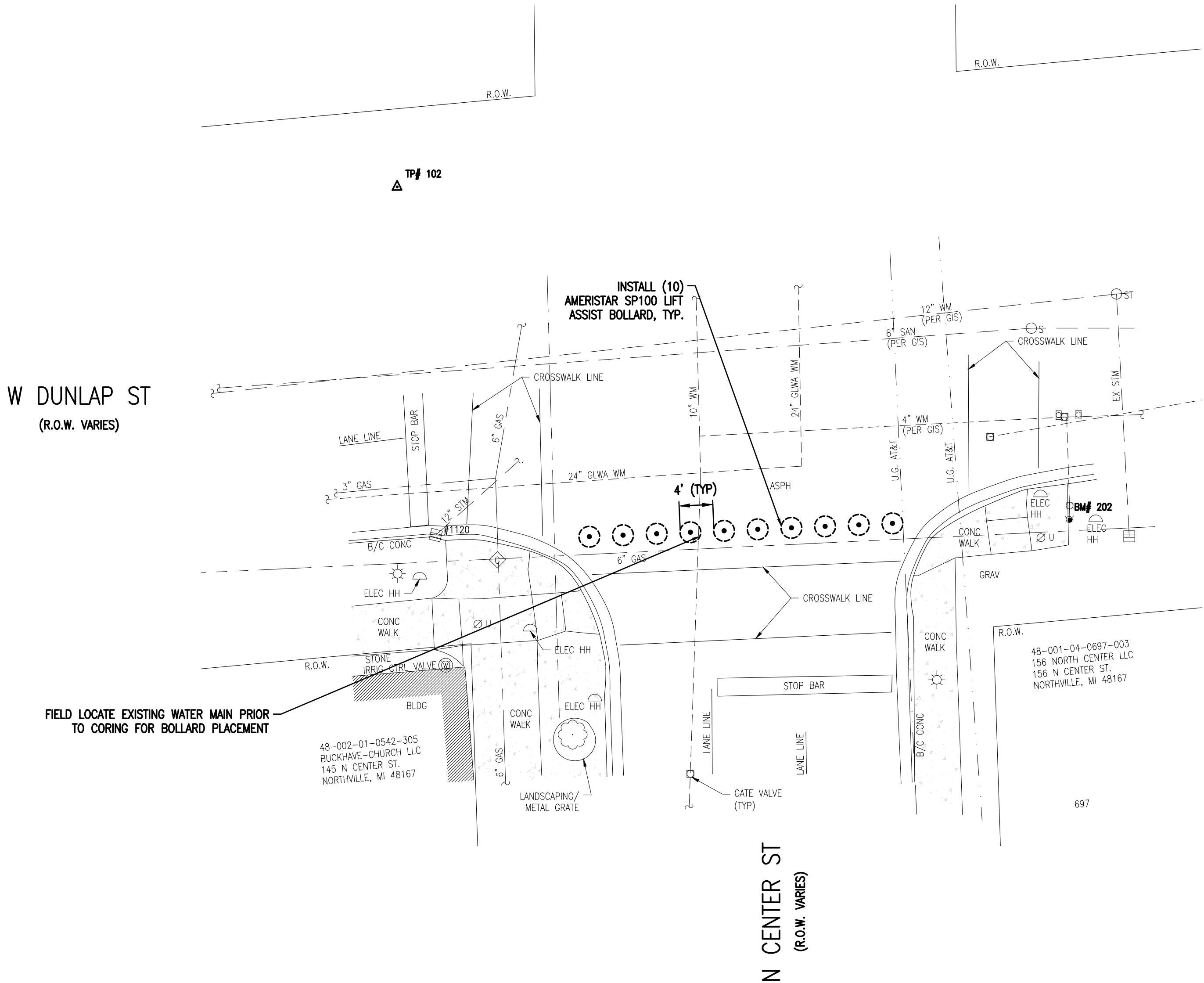
PROJECT NUMBER	PM	DISCIPLINE LEAD	CLIENT PROJ NO
015223-0080	CM	GT	230080
CITY OF NORTHVILLE			
DOWNTOWN ROAD CLOSURE BOLLARD INSTALLATION			
GENERAL NOTES AND DETAILS			

DRAWING PATH: P:\0125 0165016223060 Downtown Road Closure Bollards\Drawings\Civil\Plans Const\230601CON.dwg Aug 03, 2023 - 1:15pm

JOB BENCHMARK #202 SET ARROW ON HYDRANT IN SE QUAD AT CENTER & DUNLAP ELEV 833.71	
TRAVERSE POINT #102 N 340985.71 E 13361797.76	ELEV 832.76

STORM STRUCTURES

#1120 SQUARE CATCH BASIN T/CAST 831.62
12" RCP INV NE 828.33



NOTES:

- CONCRETE FOUNDATION FOR BOLLARDS TO BE MINIMUM 29.5" DIAMETER 29.5" DEEP WITH TOTAL BOLLARD EMBEDMENT OF 59". 4" ASPHALT CAP TO BE INSTALLED ON TOP OF CONCRETE FOUNDATION, CORE EXISTING PAVEMENT FOR EACH BOLLARD.
- POTENTIAL UTILITY CONFLICTS SHOULD BE POTHOLED BEFORE CONSTRUCTION AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- RETRACTABLE BOLLARDS ARE TO BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR. FOUNDATION CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.



PROJECT NUMBER 0162-23-0360
DISCIPLINE LEAD CM
CLIENT PROJ NO 230080
CITY OF NORTHVILLE
DOWNTOWN ROAD CLOSURE BOLLARD INSTALLATION
SITE PLAN - CENTER ST & DUNLAP ST

ISSUED FOR: BID DOCUMENTS	2023/07/31
REVISION	DESCRIPTION
07/07/2023	FOR BID DOCUMENTS
08/03/2023	ADDENDUM NO. 1

PRELIMINARY - NOT
FOR CONSTRUCTION

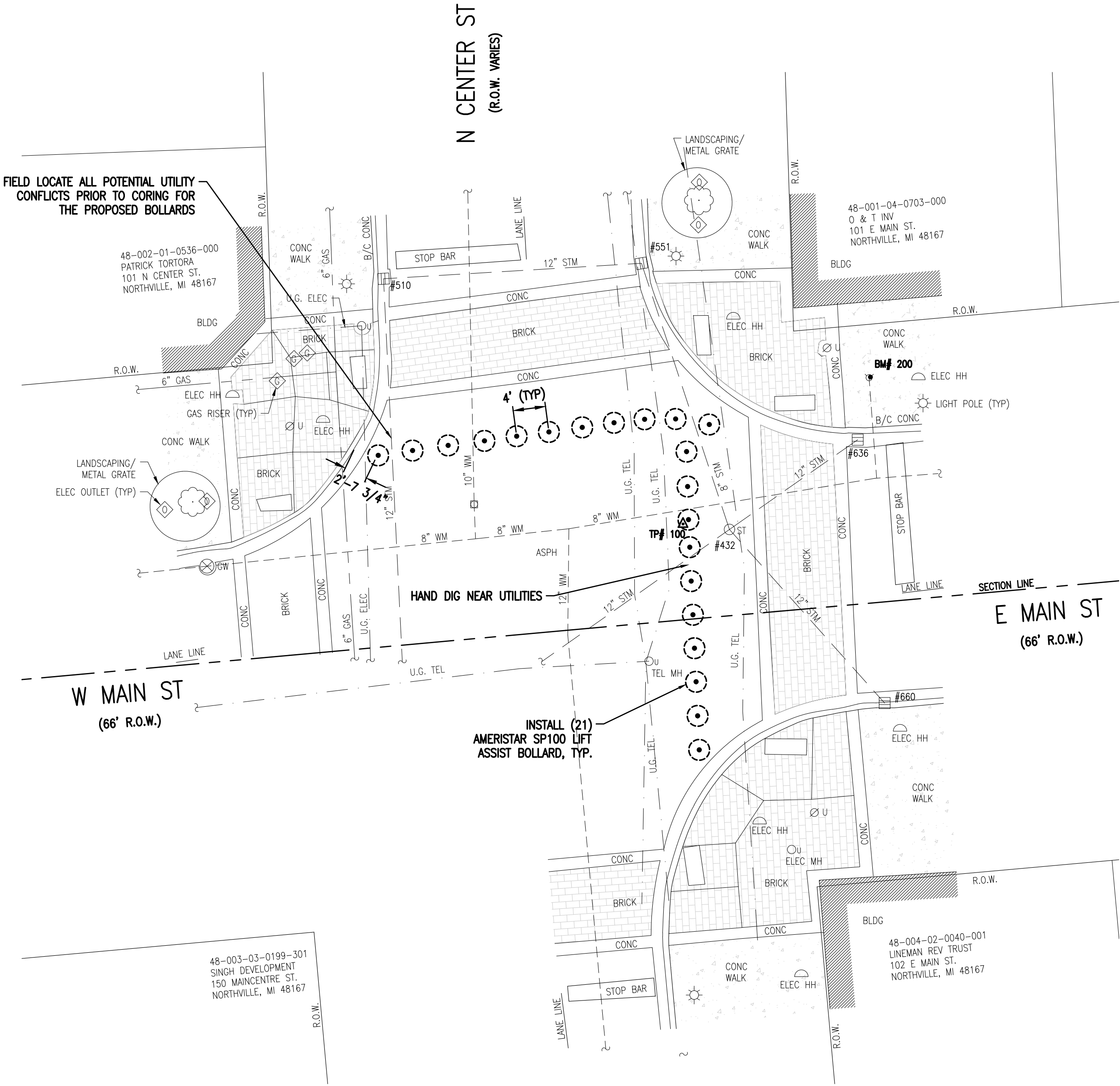


DRAWING PATH: P:\0125 0165016223060 Downtown Road Closure Bollards\Drawings\Civil\Plan Const\230601CON.dwg Aug 03, 2023 - 1:15pm

JOB BENCHMARK #200 SET ARROW ON HYDRANT IN NE QUAD AT CENTER & MAIN ELEV 831.92	
TRAVERSE POINT #100 N 340571.67 E 13361866.37	ELEV 829.21

STORM STRUCTURES

- #432 STORM MANHOLE T/CAST 829.17
12" RCP INV NE 824.22
8" PVC INV N 824.47
12" RCP INV SW 824.25
12" RCP INV SE 824.37
(NO FLOW)
- #510 SQUARE CATCH BASIN T/CAST 829.33
12" RCP INV SW 824.82
12" RCP INV E 826.03
(NO FLOW)
- #551 SQUARE CATCH BASIN T/CAST 829.24
12" RCP INV W 827.08
- #636 SQUARE CATCH BASIN T/CAST 828.90
12" RCP INV SW 826.74
- #660 SQ CATCH BASIN-IN CURB T/CAST 828.84
12" RCP INV NW 824.57



NOTES:

1. CONCRETE FOUNDATION FOR BOLLARDS TO BE MINIMUM 29.5" DIAMETER 29.5" DEEP WITH TOTAL BOLLARD EMBEDMENT OF 59". 4" ASPHALT CAP TO BE INSTALLED ON TOP OF CONCRETE FOUNDATION, CORE EXISTING PAVEMENT FOR EACH BOLLARD.
2. POTENTIAL UTILITY CONFLICTS SHOULD BE POTHOLED BEFORE CONSTRUCTION AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. RETRACTABLE BOLLARDS ARE TO BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR. FOUNDATION CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig.



PRELIMINARY - NOT
FOR CONSTRUCTION

ISSUED FOR: BID DOCUMENTS	2023/07/31
REVISION	DATE

DESCRIPTION
07/23/2023 FOR BID DOCUMENTS
08/03/2023 ADDENDUM NO. 1

PROJECT NUMBER	PM	DISCIPLINE LEAD	CLIENT PROJ. NO
0152-23-0080	CM	GT	230080

CITY OF NORTHVILLE

DOWNTOWN ROAD CLOSURE BOLLARD INSTALLATION

SITE PLAN - CENTER ST & MAIN ST

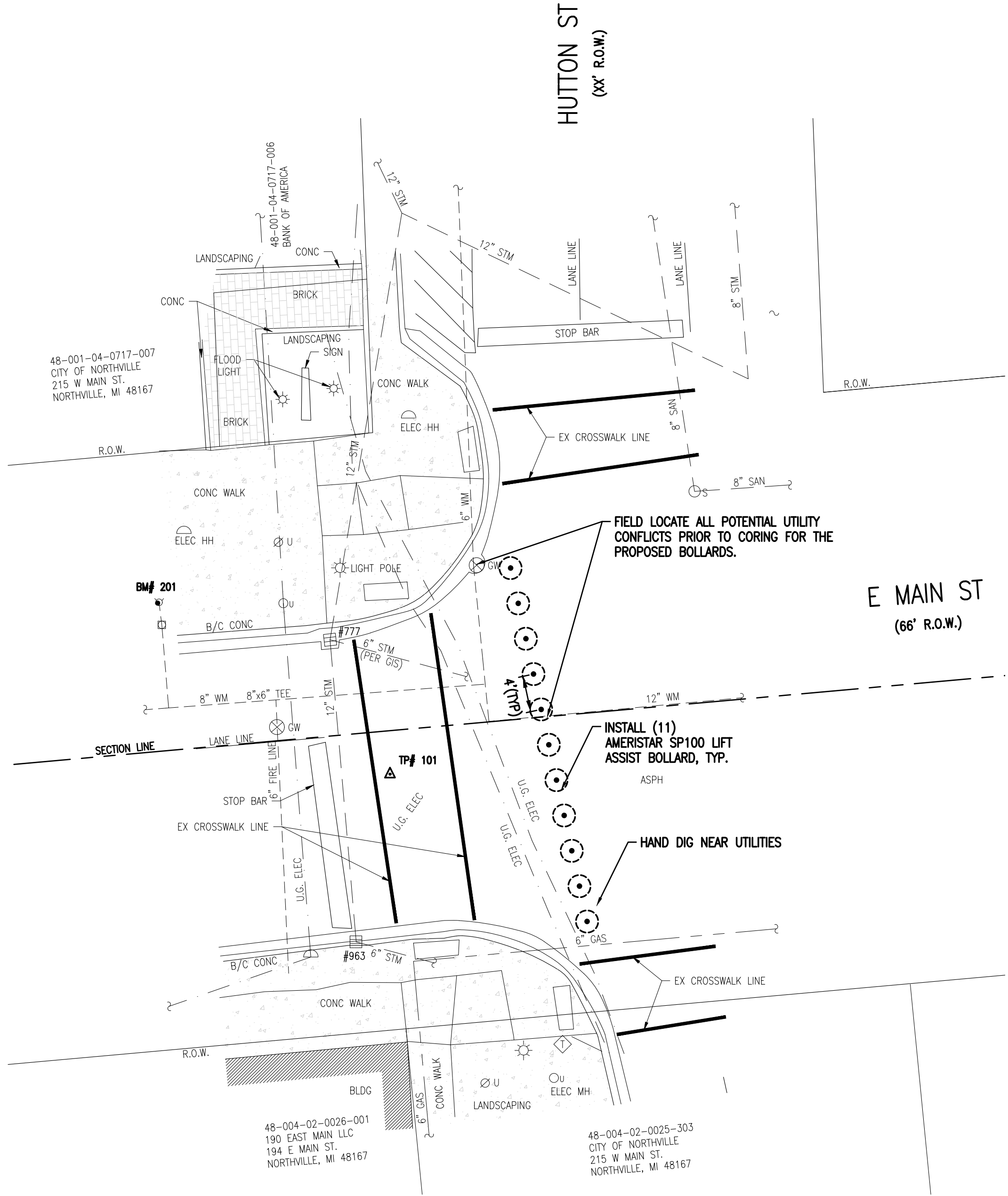
COPYRIGHT 2023 OHM ADVISORS. ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM ADVISORS AND THE SAME MAY NOT BE DUPLICATED, DISTRIBUTED OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM ADVISORS.

JOB BENCHMARK #201 SET ARROW ON HYDRANT IN NW QUAD AT MAIN & HUTTON ELEV 824.46	
TRAVERSE POINT #101 N 340604.66 E 13362415.54	ELEV 821.84

STORM STRUCTURES

#777 SQUARE CATCH BASIN T/CAST 821.52
12" RCP INV NE 817.42
12" RCP INV S 817.62
(NO FLOW)

#963 SQUARE CATCH BASIN-IN CURB T/CAST 821.40
12" RCP INV N 818.07
6" CMP INV SE 819.10
(NO FLOW)

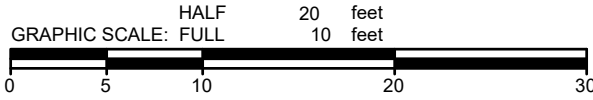


NOTES:

1. CONCRETE FOUNDATION FOR BOLLARDS TO BE MINIMUM 29.5" DIAMETER 29.5" DEEP WITH TOTAL BOLLARD EMBEDMENT OF 59". 4" ASPHALT CAP TO BE INSTALLED ON TOP OF CONCRETE FOUNDATION, CORE EXISTING PAVEMENT FOR EACH BOLLARD.
2. POTENTIAL UTILITY CONFLICTS SHOULD BE POTHOLED BEFORE CONSTRUCTION AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. RETRACTABLE BOLLARDS ARE TO BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR. FOUNDATION CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig.



PRELIMINARY - NOT
FOR CONSTRUCTION

ISSUED FOR: BID DOCUMENTS	2023/07/31
REVISION	DESCRIPTION
07/01/2023	FOR BID DOCUMENTS
08/03/2023	ADDENDUM NO. 1

PROJECT NUMBER	PM	DISCIPLINE LEAD	CLIENT PROJ. NO
0152-23-0080	CM	GT	230080
CITY OF NORTHVILLE			
DOWNTOWN ROAD CLOSURE BOLLARD INSTALLATION			
SITE PLAN - MAIN ST & HUTTON ST			