# Village of Elk Rapids - Antrim County - Michigan

Sections 20 & 21, Township 29N, Range 09W

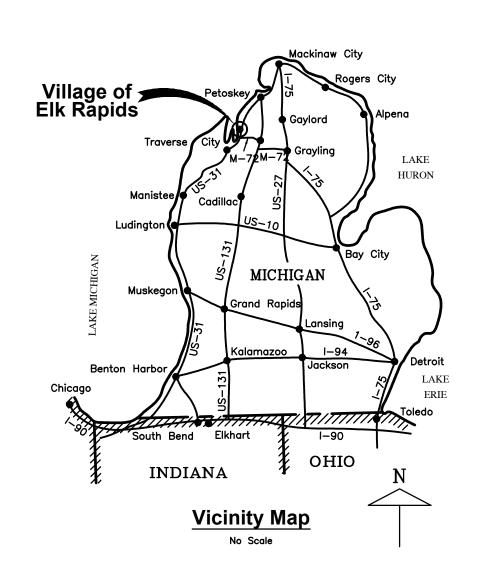
#### **Owner**

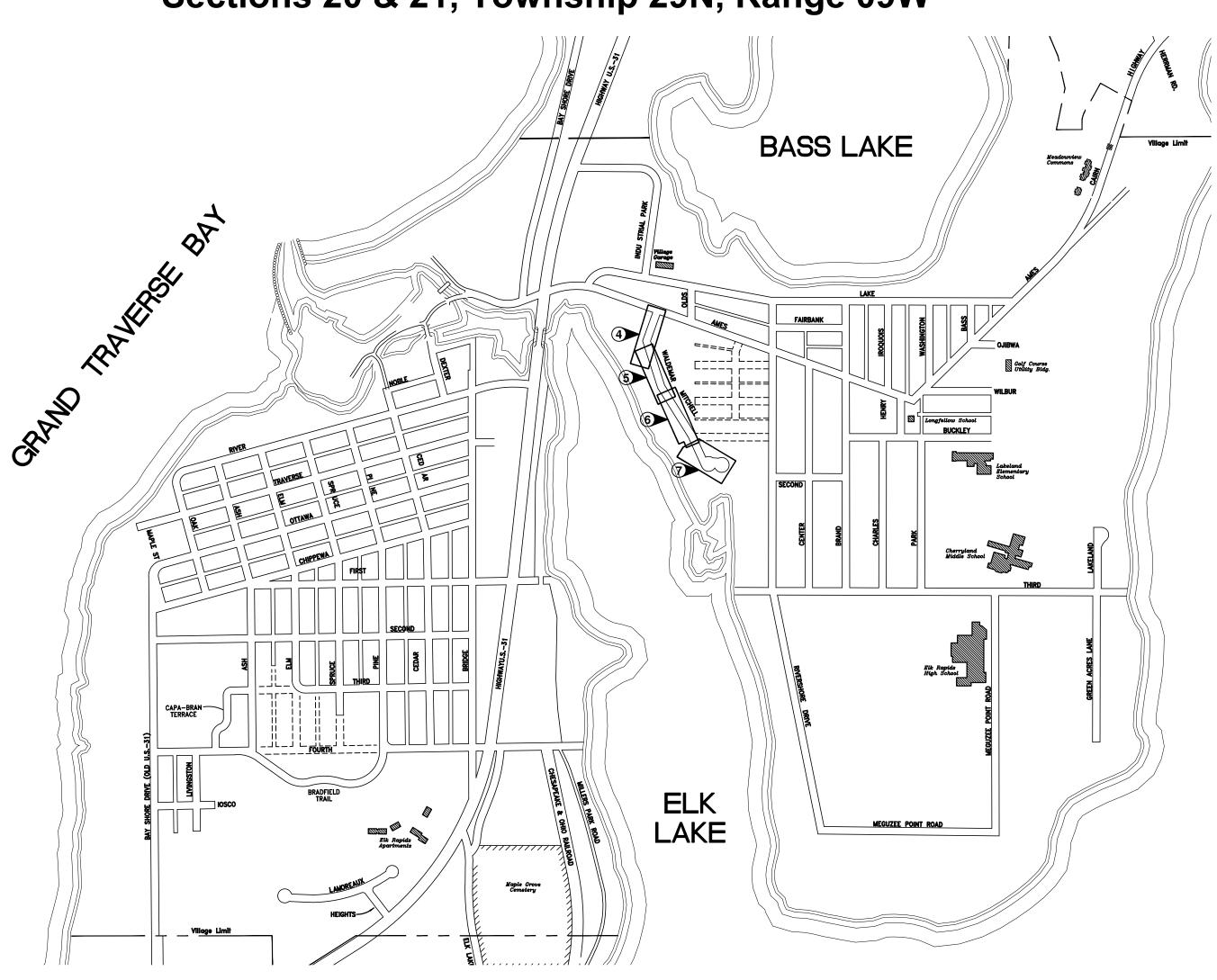
**VILLAGE OF ELK RAPIDS MANAGER: John B. Matthews** P.O. BOX 398 **315 BRIDGE STREET ELK RAPIDS, MICHIGAN 49629** (231) 264-9971 - (231) 264-9274 vllg398@elkrapids.org



#### **Engineer**

**GOSLING CZUBAK ENGINEERING SCIENCES, INC.** 1280 BUSINESS PARK DRIVE TRAVERSE CITY, MICHIGAN 49686-8607 (231) 946-9191 - (800) 968-1062 Fax: (231) 941-4603 www.goslingczubak.com





#### SHEET LIST

STA, 13+00 TO STA, 17+21 **DETAILS 1** 

DETAILS 2 **DETAILS 3** 

### Village of Elk Rapids **Site Location Map**

SCALE: 1" = 600'

#### **PUBLIC UTILITIES**

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) THREE WORK-ING DAYS PRIOR TO THE START OF CONSTRUCTION.

DTE ENERGY COMPANY
GAS DISTRIBUTION MR. MATT LOGAN 1294 NORTH U.S. 31 PETOSKEY, MI 49770 231-258-3785

MR. SCOTT D. STRINGER 250 MICHCON LN., KALKASKA, MI 49646 231-499-7648

CHARTER COMMUNICATIONS VILLAGE OF ELK RAPIDS DPW MR. DAN FOX MR. ALEX PRAY 701 S. AIRPORT RD. 315 BRIDGE STREET TRAVERSE CITY, MI 49686 P.O. BOX 398 231-929-7012 EXT. 102 ELK RAPIDS, MI 49629

**CONSUMERS ENERGY** 

MS. AMANDA HALL MS. KATHY DOHM-BIESER 821 HASTINGS 142 E. STATE STREET TRAVERSE CITY, MI 49686 TRAVERSE CITY, MI 49684 231-941-2707 231-929-6244

231-264-9971



APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBL FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

ORIGINAL SHEET SIZE IS 22x34 - HALF SCALE SHEET IS 11x1

Gosling C



Issue Date 2/21/2024

Project No. 202115002

#### PROPOSED FEATURES LEGEND

PROPOSED SANITARY CLEANOUT PROPOSED SANITARY STRUCTURE PROPOSED SANITARY LINE PROPOSED SANITARY FORCEMAIN PROPOSED SANITARY SERVICE PROPOSED SANITARY SHUT OFF VALVE PROPOSED WATER LINE PROPOSED WATER HYDRANT PROPOSED WATER SYSTEM VALVE PROPOSED ASPHALT REMOVAL

#### SITE PLAN NOTES

1. DESIGN SUBJECT TO VERIFICATION OF SITE CONDITIONS.

PROPOSED ASPHALT

- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL PUBLIC AND PRIVATE UTILITY LOCATIONS. CONTRACTOR SHALL ALSO CONTACT "MISS DIG" AT 1-800-482-7171 THREE WORKING DAYS PRIOR TO CONSTRUCTION BEGINNING.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT VERTICAL CONTROL DATA (I.E. BENCHMARKS, FLOORS, UTILITIES, ETC.)
- 4. INSTALL SESC MEASURES AS FIRST STEP BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. SEE SESC MEASURES SHOWN ON PLANS AS THE MINIMUM CONTROLS TO BE USED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES TO PROTECT THE DISTURBED AREAS AND ADJACENT PROPERTIES FROM ACCELERATED EROSION AND SEDIMENTATION RESULTING FROM CONSTRUCTION AT NO ADDITIONAL CHARGE TO THE OWNER.
- 5. ALL TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE OCCUPIED BY FILL, STRUCTURES, OR IMPROVED SURFACES.
- 6. ALL DISTURBED AREAS SHALL BE TOPSOILED, SEEDED, FERTILIZED, AND MULCHED. MULCH BLANKET SHALL BE INSTALLED IN AREAS WITH SLOPES 1v: 3H AND STEEPER OR AS NEEDED AND SHALL BE INCIDENTAL TO THE WORK.
- 7. ANY AREAS UTILIZED BY CONTRACTOR FOR MATERIAL LAYDOWN SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER, AND MULCH.
- 8. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF SESC PERMIT. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF ANY OTHER OWNER OBTAINED PERMITS (DRIVEWAY PERMIT, STATE SCHOOLS, ETC.)
- 9. PAVEMENT STRIPING SHALL MEET PROJECT SPECIFICATIONS.

#### SITE UTILITY NOTES

- WATER AND SEWER IMPROVEMENTS TO MEET CURRENT VILLAGE OF ELK RAPIDS, PLUMBING, AND MECHANICAL
- CODE REQUIREMENTS. MAINTAIN 10 FEET OF HORIZONTAL AND 18 INCH OF VERTICAL CLEARANCE BETWEEN WATER AND SEWER. CONTRACTOR TO PERFORM ALL CHLORINATION AND DISINFECTION PROCEDURES ON THE NEW WATER SYSTEM TO ALL OUTLET
- 4. CONTRACTOR TO COORDINATE FORCEMAIN SERVICE LOCATION INSTALLATIONS WITH THE VILLAGE AND INDIVIDUAL PROPERTY
- 5. SANITARY SEWER GRAVITY
  - MINIMUM COVER ON ALL BURIED SEWER LINES, 6'-0" UNLESS OTHERWISE NOTED
  - SERVICES - DESIGN STANDARD: ASTM - D 3034.
- WALL THICKNESS: SCHEDULE 40 JOINTS: SOLVENT WELD
- - MINIMUM COVER ON ALL BURIED WATER LINES, 6'-0" UNLESS OTHERWISE NOTED
  - WATER SERVICE LINES SHALL BE PVC C900 FOR PIPING LARGER THAN 3-INCH
  - WATER SERVICE LINES SHALL BE TYPE K COPPER FOR PIPING 3-INCH AND SMALLER - WATER VALVES SHALL BE INSTALLED WHERE LOCATED ON PLANS
  - CURB BOXES SHALL BE INSTALLED IN THE ROW, ONE FOOT BACK OF FROM THE PROPERTY LINE. WHERE SIDEWALK OR OTHER CONFLICTS ARE PRESENT, INSTALL ONE FOOT BACK SIDEWALK OR AS NOTED ON PLANS.

#### SOIL BORING LEGEND



PAVING





NO DESCRIPTION



POORLY GRADED SAND



POORLY GRADED CLAYEY SILTY SAND



GROUND WATER LEVEL

#### SOIL EROSION & SEDMINTATION CONTROL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL (SESC) RULES AND REGULATIONS (SOIL EROSION AND SEDIMENTATION CONTROL -1994 PA 451, PART 91, AS AMENDED, MCL 324.9101 ET SEQ.).
- 2. SOIL EROSION AND SEDIMENTATION CONTROL SHALL PROTECT AGAINST LOSS OF SOIL BY THE ACTION OF WATER, ICE, AND WIND.
- 3. THE CONTRACTOR IS REQUIRED TO FOLLOW THE CONDITIONS OUTLINED IN THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT.
- 4. THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY THE PROJECT'S SESC PLAN, ANTRIM COUNTY PERMIT REQUIREMENTS, DTMB'S SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK, DATED FEBRUARY 2005, AND AS DIRECTED BY THE ENGINEER.
- 5. BASIC PRINCIPLES OF THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN ARE AS FOLLOWS:
- KEEP DISTURBED AREA AS SMALL AS POSSIBLE STABILIZE AND/OR PROTECT DISTURBED AREAS AS SOON
- AS POSSIBLE KEEP STORM WATER RUNOFF VELOCITIES LOW.
- RETAIN SEDIMENT WITHIN IMMEDIATE CONSTRUCTION AREA.
- 6. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO OR UPON COMMENCEMENT TO EARTHWORK ACTIVITIES.
- 7. THE CONTRACTOR WILL PERFORM SWEEPING AS NEEDED TO REMOVE ANY SEDIMENT TRACKED OFF SITE. FREQUENCY OF SWEEPING WILL BE BASED ON SITE CONDITIONS. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY. SCRAPE DAILY OR AS NEEDED. SWEEP ROADS ONCE A WEEK. ROADS SHALL ALSO BE CLEANED IMMEDIATELY AFTER A RAIN EVENT.
- 9. DISTURBED AREAS THAT WILL REMAIN IDLE DURING CONSTRUCTION MUST BE TEMPORARILY STABILIZED, INCLUDING SOIL STOCKPILES, USING DTMB SESC BEST MANAGEMENT PRACTICES.
- 10. ALL DISTURBED SURFACE AREAS (INCLUDING UTILITY TRENCHES) SHALL BE TEMPORARILY GRADED AND/OR DITCHED TO DIRECT WATER RUNOFF FROM SUCH AREAS TO SEDIMENTATION CONTROL DEVICES WHICH WILL PREVENT DISTURBING ERODED WATER

CARRYING SOIL FROM ENTERING A WATERCOURSE, SEWER, OR ADJACENT LANDS. SUCH SEDIMENTATION CONTROL DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO PROTECTIVE DITCHES, SEDIMENT TRAPS, SEDIMENT FILTERS, DITCH TRAPS, PIPE BARRIERS, STRAW BALE BERMS AND FILTERS AS DETAILED AND REQUIRED AND LOCATED ON THE DRAWINGS. AFTER THE PROJECT WORK HAS BEEN COMPLETED, INSPECTED AND APPROVED, THE CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL DEVICES, MATERIAL AND THEIR

THE DRAWINGS AND SPECIFICATIONS.

11. THE CONTRACTOR SHALL MAINTAIN AND INSPECT SESC MEASURES THROUGHOUT THE COURSE OF THE PROJECT. RECOMMEND INSPECTING AND MAINTAINING EROSION AND SEDIMENTATION CONTROLS ON A DAILY BASIS. AT A MINIMUM, THE CONTRACTOR SHALL INSPECT AND MAINTAIN SESC MEASURES ONCE A WEEK AND AFTER RAIN EVENTS. COLLECTED SILT AND SEDIMENTATION SHALL BE REMOVED AS REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE SILT TRAPS OR SEDIMENTATION CONTROL DEVICES. IN SILT FENCE APPLICATIONS SEDIMENT SHALL BE REMOVED WHEN THE HEIGHT REACHES ONE HALF THE HEIGHT OF THE FABRIC. WHERE REQUIRED, THE CONTRACTOR SHALL REPLACE FILTER MATERIALS WHICH HAVE BECOME INEFFECTIVE DUE TO CONTAMINATION OR PHYSICAL

COLLECTED SILT AND DEBRIS AND COMPLETE THE PROJECT WORK IN ACCORDANCE WITH

12. THE CONTRACTOR SHALL CORRECT NON-CONFORMING SESC MEASURES WITHIN 24 HOURS, IF WATERS OF THE STATE ARE BEING IMPACTED OR WITHIN 48 HOURS FOR ROUTINE MAINTENANCE ITEMS. OTHER SESC MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NEVER MORE THAN FIVE (5) DAYS AFTER DETECTION.

DETERIORATION. THE CONTRACTOR SHALL INSPECT ALL SOIL AND EROSION AND

SEDIMENTATION CONTROL DEVICES AFTER ALL STORM EVENTS.

- 13. THE CONTRACTOR SHALL COMPLETE PERMANENT SOIL EROSION CONTROL MEASURES FOR ANY DISTURBED LAND AREA WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. THE CONTRACTOR SHALL MAINTAIN TEMPORARY CONTROL MEASURES UNTIL PERMANENT SOILL EROSION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
- 8. THE CONTRACTOR WILL PERFORM DUST CONTROL AS NEEDED BASED ON SITE CONDITIONS. 14. THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. CARE SHALL BE TAKEN DURING REMOVAL TO PREVENT SOIL EROSION AND SEDIMENTATION.
  - 15. AFTER THE COMPLETION OF THE PROJECT, PERMANENT SESC MEASURES WILL BE MAINTAINED BY THE PROPERTY OWNER.

#### DTMB SESC KEY LEGEND

E5	DUST CONTROL		For use on construction sites, unpaved roads, etc. to reduce dust and sedimentation from wind and construction activities.
E6	MULCH		On flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
E9	MULCH BLANKETS		On exposed slopes, newly seeded areas, new ditch bottoms, or areas subject to erosion.
E8	PERMANENT SEEDING	ale Theral Mulanilan Manall	Stabilization method utilized on sites where earth change has been completed (final grading attained).
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S58	STORM INLET PROTECTION	·====	Around the entrance to a catch basin or an inlet that will capture runoff from an earth change activity.

DENOTES PERMANENT MEASURE



#### **TEMPORARY SANITARY SERVICE**

- 1. PROVIDE TEMPORARY SANITARY FORCE MAIN SERVICE TO CUSTOMERS SOUTH OF STATION 12+50.
- 2. MINIMUM FORCE MAIN SIZE 2-INCH ID. 3. TEMPORARY SANITARY SERVICE PIPING TO MEET MINIMUM MATERIAL SPECIFICATIONS. 2 FEET OF COVER IN TRAFFIC LOADING AREAS, 12" COVER IN ALL OTHERS.
- 4. MAINTAIN CONTINUOUS ACCESS TO PROPERTY OWNERS HOMES AND BUSINESSES. 5. CUSTOMERS IDENTIFIED FOR TEMPORARY SERVICE INCLUDE
- THE FOLLOWING ADDRESSES: 5.1. 126 MITCHELL 5.2. 130 MITCHELL
- 5.3. 131 MITCHELL 5.4. 132 MITCHELL
- 5.5. 134 MITCHELL 5.6. 136 MITCHELL 5.7. 138 MITCHELL 5.8. 153 MITCHELL
- 6. COORDINATE TEMPORARY SERVICE CONNECTIONS WITH SEWER CUSTOMERS.
- 7. TEMPORARY SEWER SERVICE TO BE USED ONLY WHEN TEMPERATURES ARE ABOVE FREEZING. PERMANENT SEWER TO BE INSTALLED AND ALL SERVICES CONNECTED BEFORE FREEZING TEMPERATURES ENCOUNTERED.

#### **DEWATERING**

- 1. DEWATERING SYSTEM SHALL BE CAPABLE OF LOWERING THE STATIC WATER TABLE A MINIMUM OF 12 INCHES BELOW ALL
- 2. DEWATERING SYSTEM SHALL BE FILTERED AND DISCHARGED TO THE SANITARY SEWER SYSTEM FOR TREATMENT AT THE OWNER'S WASTWATER TREATMENT PLANT (WWTP).
- 3. COORDINATE CONNECTION TO SANITARY SEWER LOCATION WITH
- 4. DEWATERING WATER SHALL NOT BE DISCHARGED TO GRADE
- OR BODY OF WATER. 5. COORDINATE DEWATERING FLOW RATE WITH OWNER TO PREVENT SEWER BACKUPS OR EXCEEDANCE OF PUMP STATION CAPACITY AND WWTP LOADING.



THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

iosling Gzuba engineering sciences, in 1280 Business Park Dr Traverse City, Michigar 231-946-9191 phone info@goslingczubak.com

www.goslingczubak.com CIVIL ENGINEERING SURVEYING **ENVIRONMENTAL SERVICES** GEOTECHNICAL CONSTRUCTION SERVICES DRILLING LANDSCAPE ARCHITECTURE

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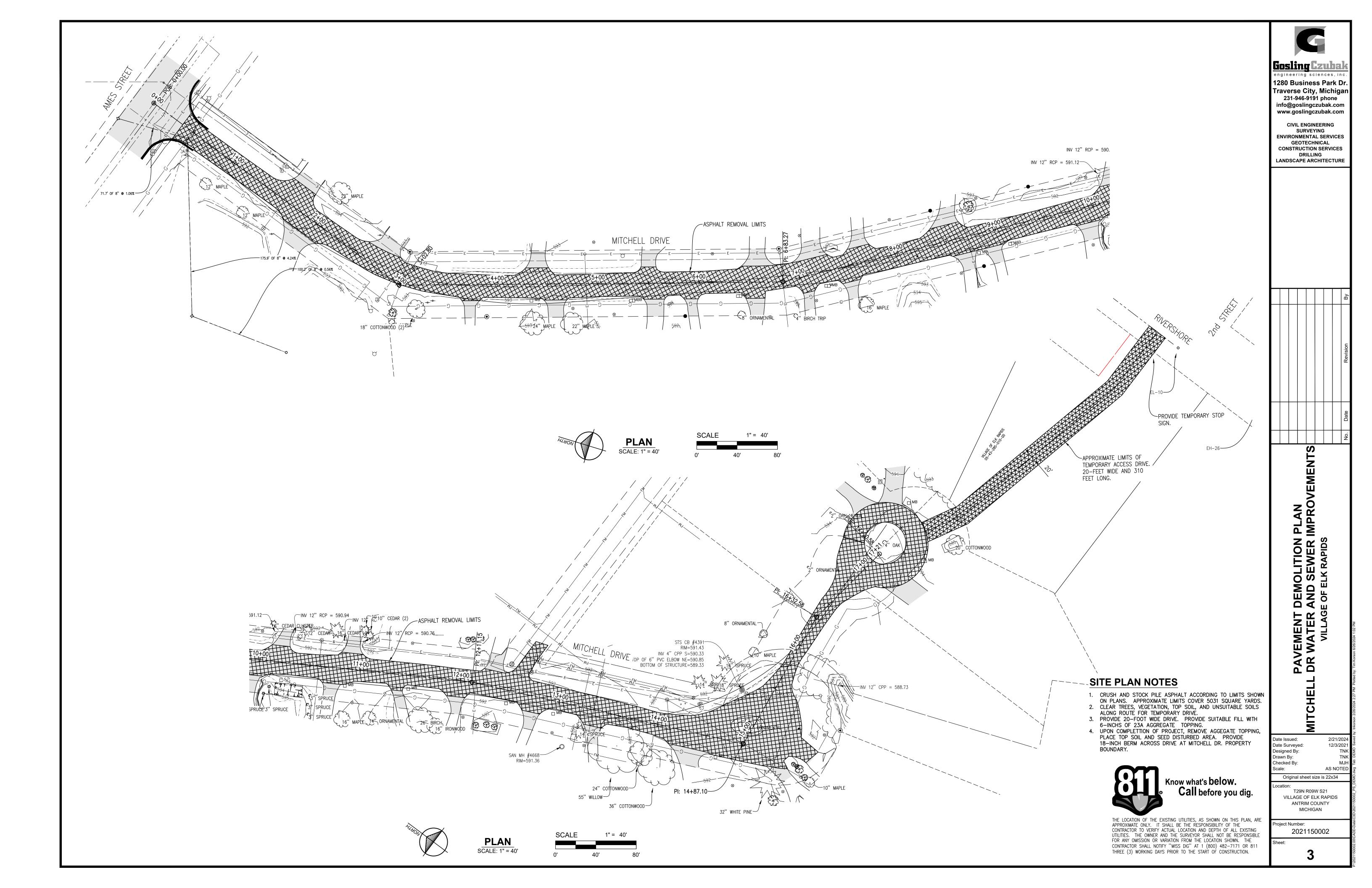
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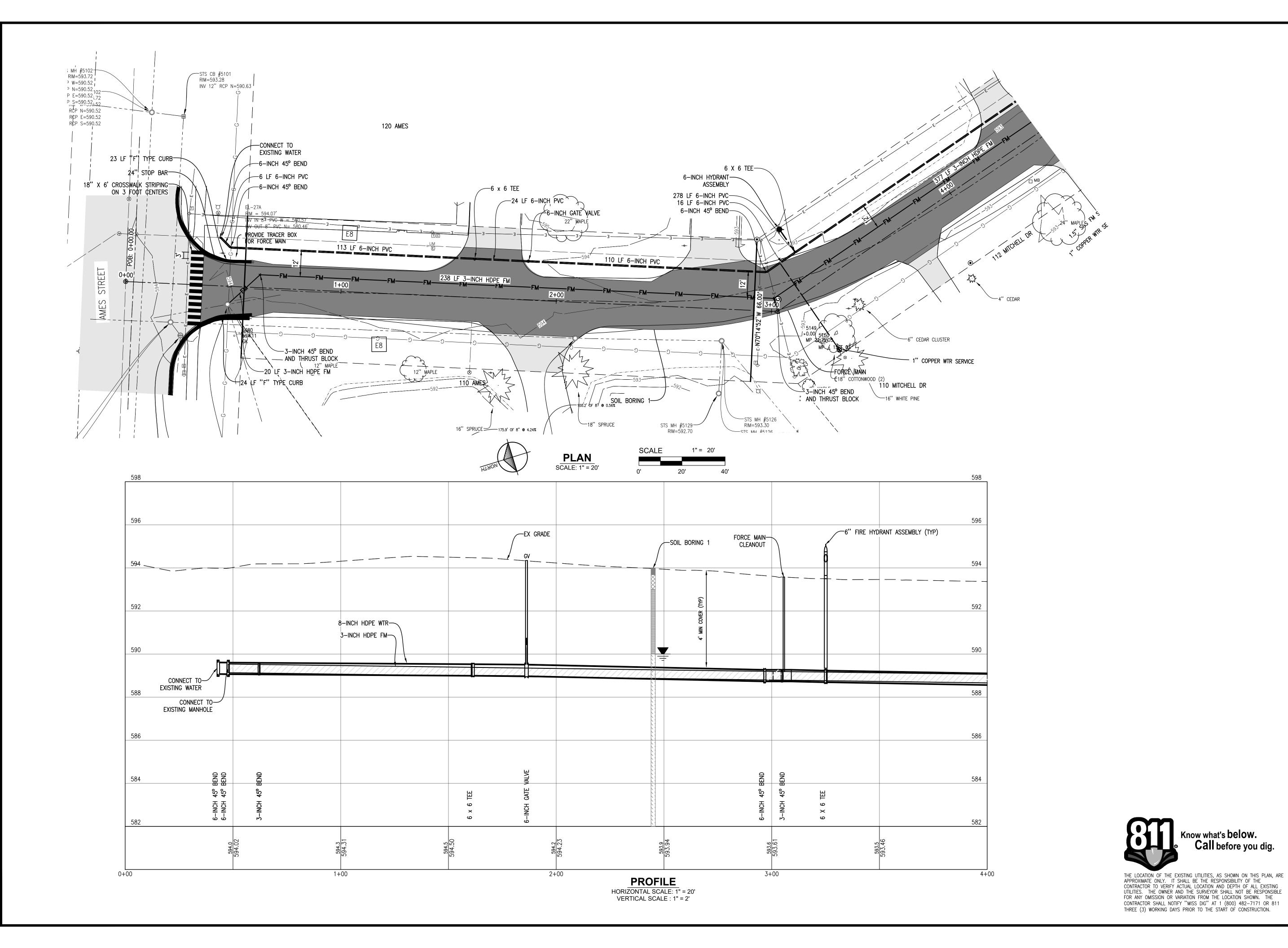
> > MICHIGAN

12/3/2021

AS NOTED

Project Number: 2021150002







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> **CIVIL ENGINEERING** SURVEYING **ENVIRONMENTAL SERVICES** GEOTECHNICAL CONSTRUCTION SERVICES DRILLING

LANDSCAPE ARCHITECTURE

S STA. 0+00 TO STA. 0+400 WATER AND SEWER IMPRO VILLAGE OF ELK RAPIDS

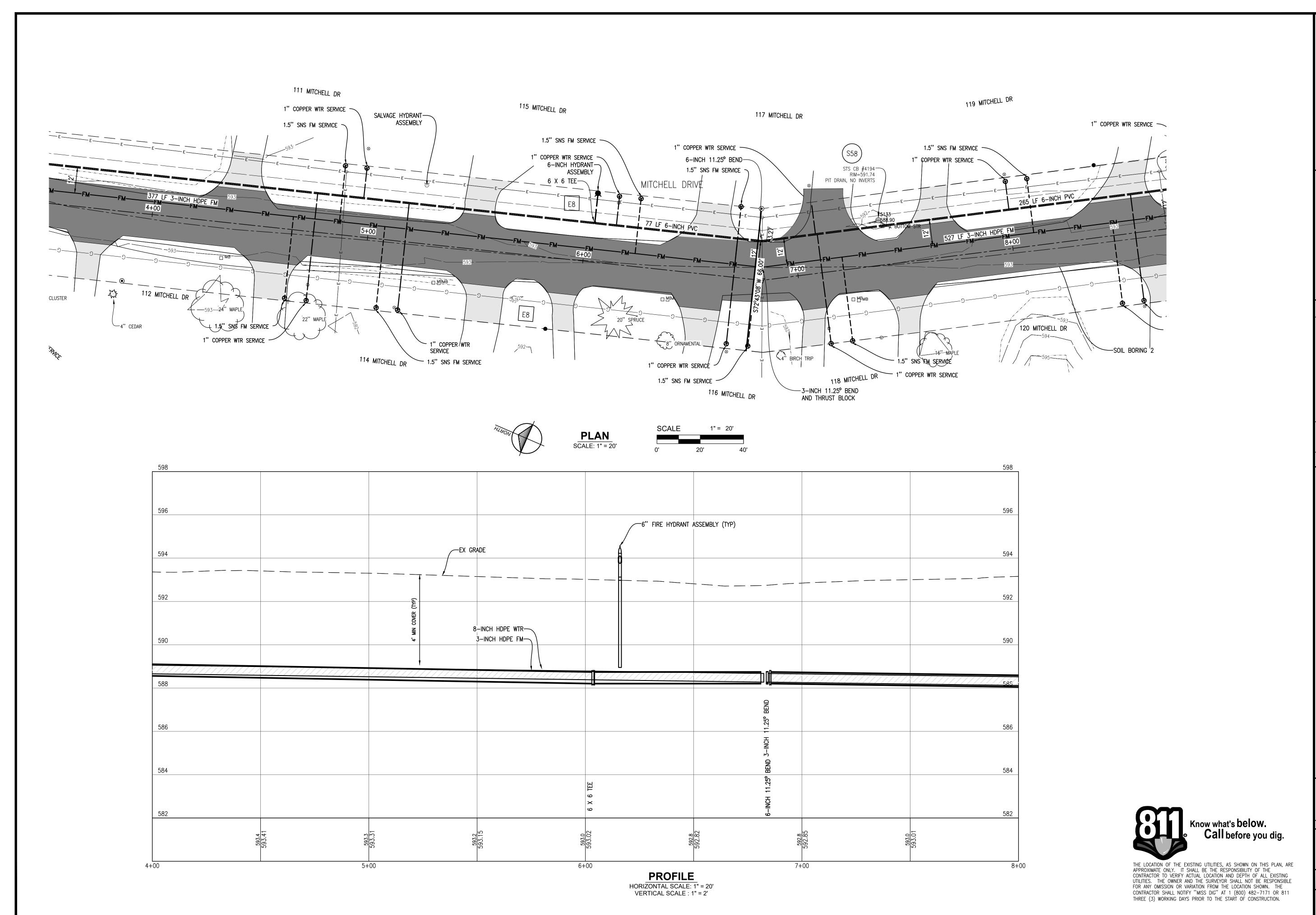
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AS NOTED Original sheet size is 22x34

12/3/2021

T29N R09W S21 VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN

Project Number:



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CIVIL ENGINEERING SURVEYING **ENVIRONMENTAL SERVICES** GEOTECHNICAL CONSTRUCTION SERVICES DRILLING LANDSCAPE ARCHITECTURE

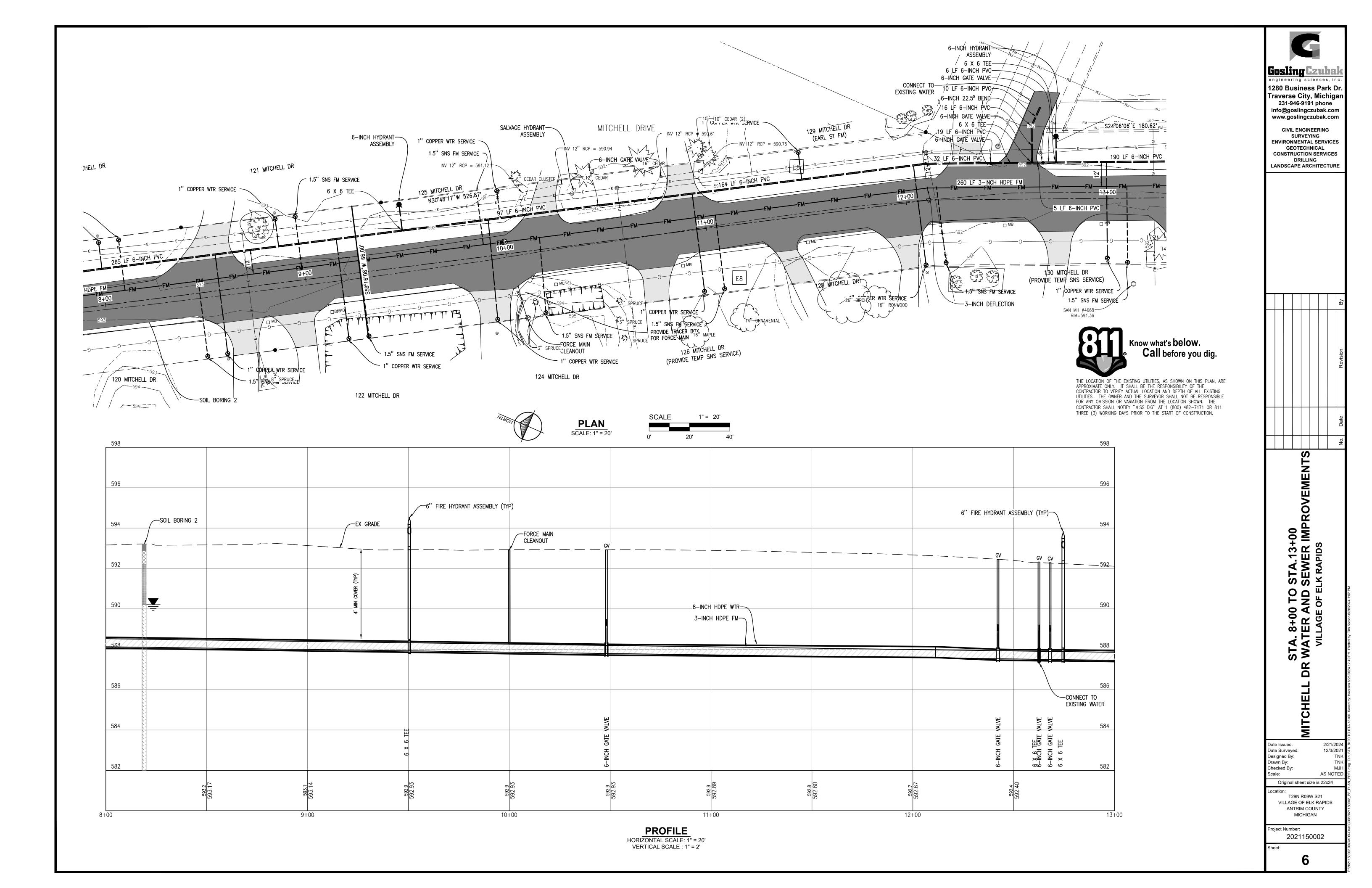
STA. 4+00 TO STA. 8+00 WATER AND SEWER IMI VILLAGE OF ELK RAPIDS

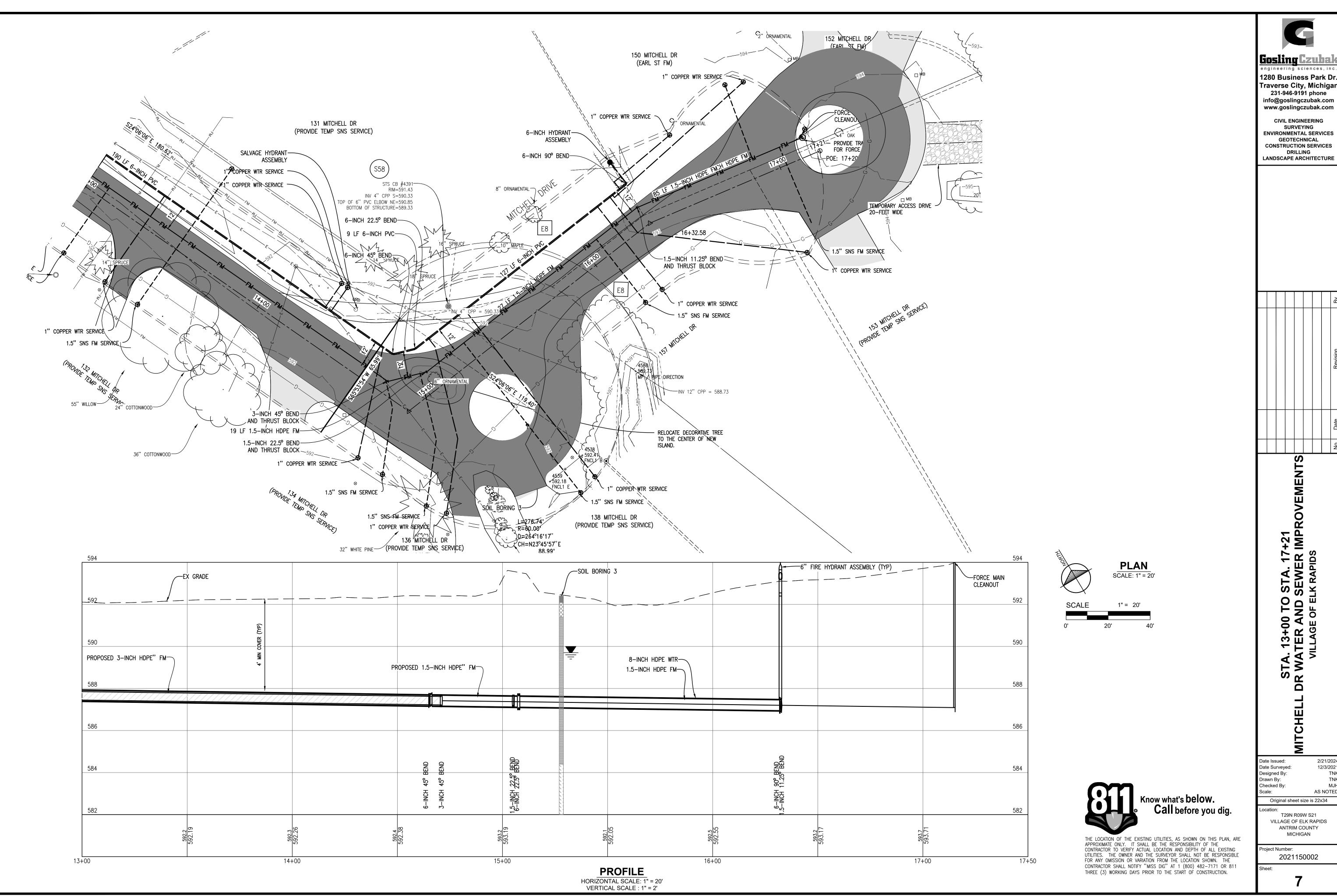
Date Surveyed: Designed By: Drawn By: Checked By:

12/3/2021

AS NOTED Original sheet size is 22x34

T29N R09W S21 VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN





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> CIVIL ENGINEERING SURVEYING ENVIRONMENTAL SERVICES GEOTECHNICAL CONSTRUCTION SERVICES

7+21 IMP STA. 13+00 TO STA. 17+ WATER AND SEWER II VILLAGE OF ELK RAPIDS

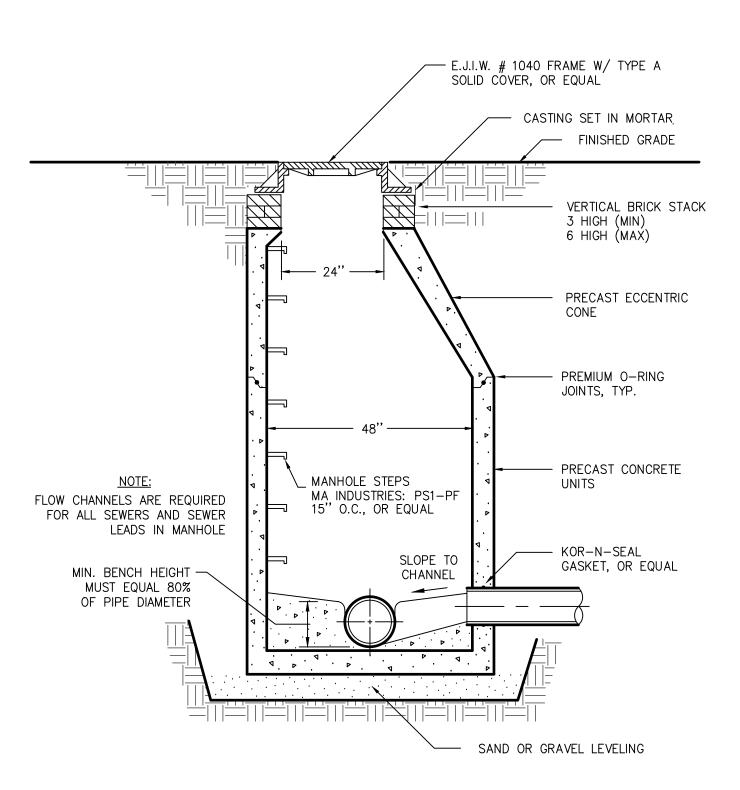
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AS NOTE Original sheet size is 22x34

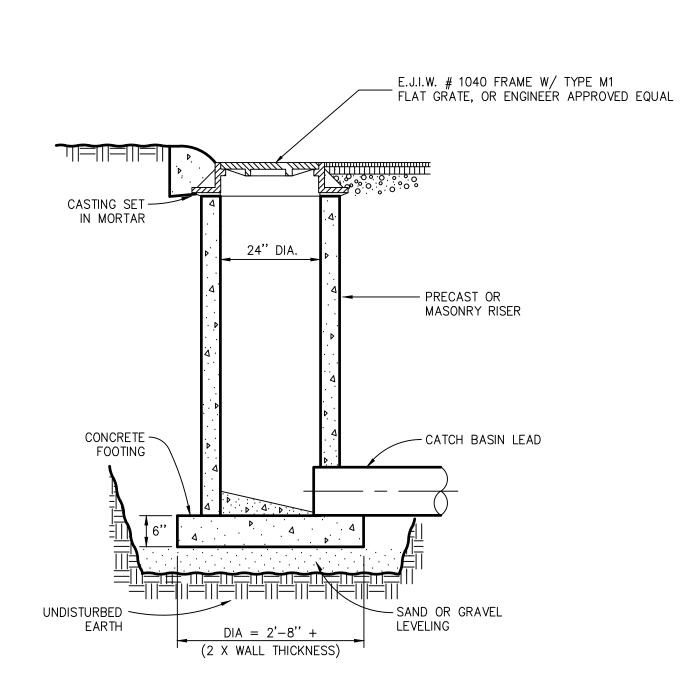
12/3/2021

T29N R09W S21

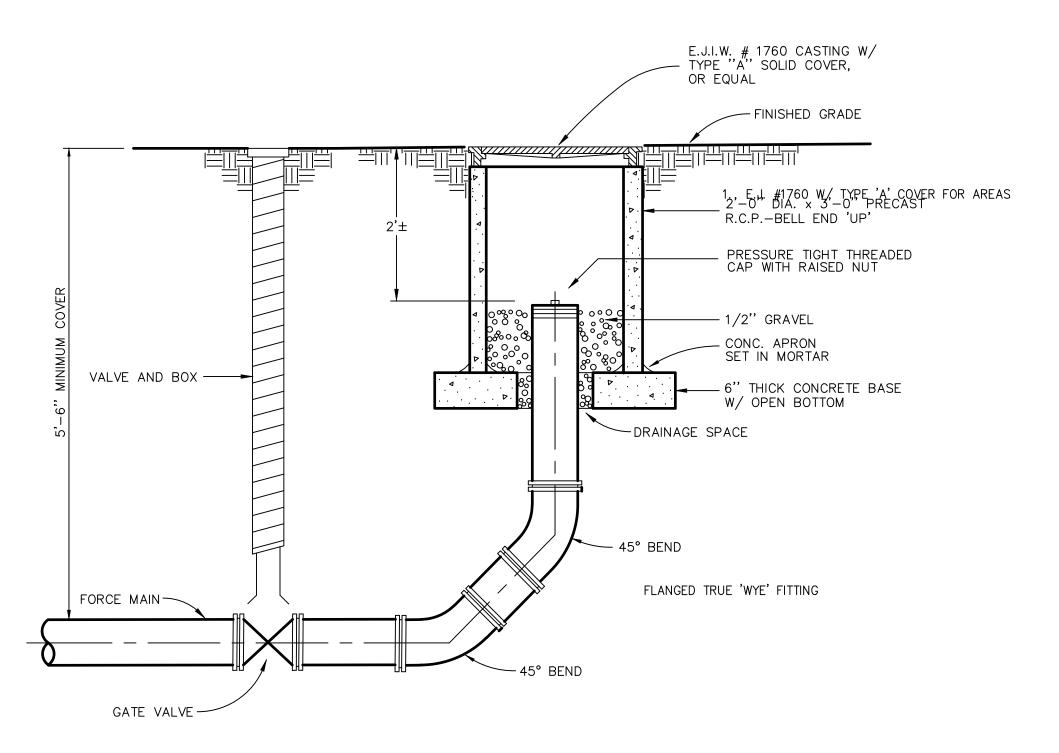
VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN



## SANITARY MANHOLE DETAIL NOT TO SCALE

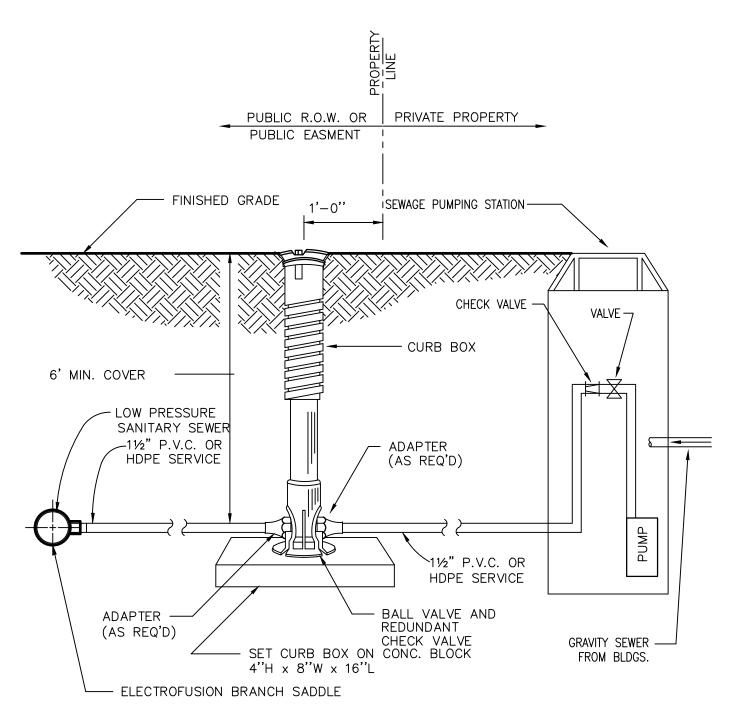


### STORM INLET DETAIL NOT TO SCALE



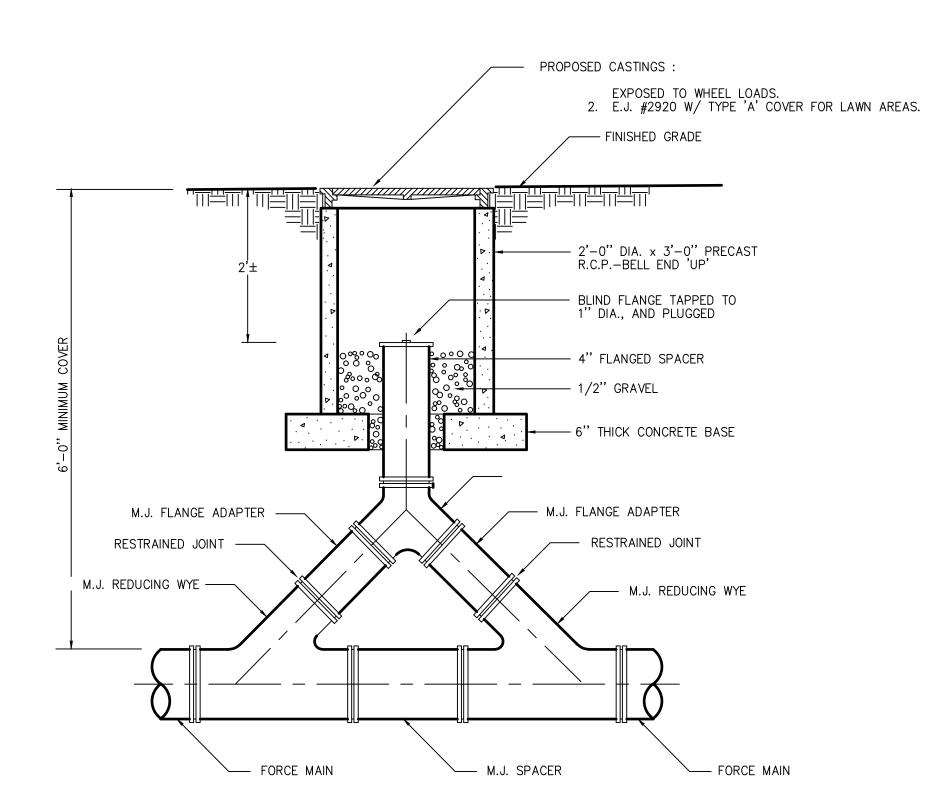
#### FORCE MAIN CLEANOUT DETAIL

NOT TO SCALE



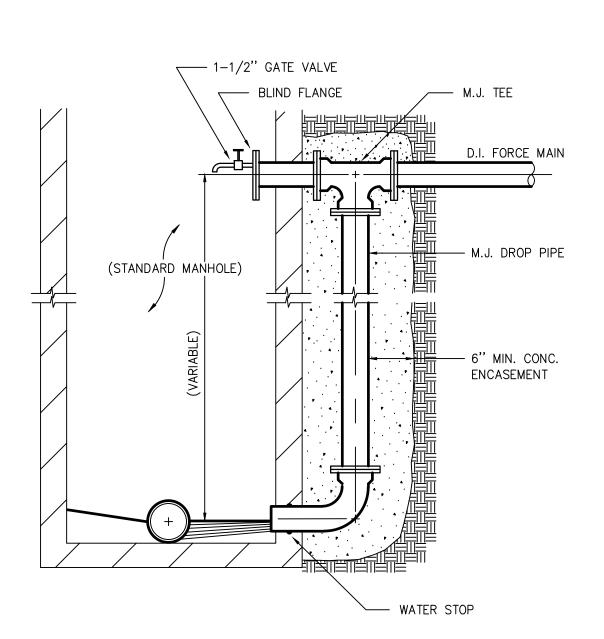
# PRESSURE SEWER SERVICE CONNECTIONS

NOT TO SCALE



#### FORCE MAIN CLEANOUT DETAIL

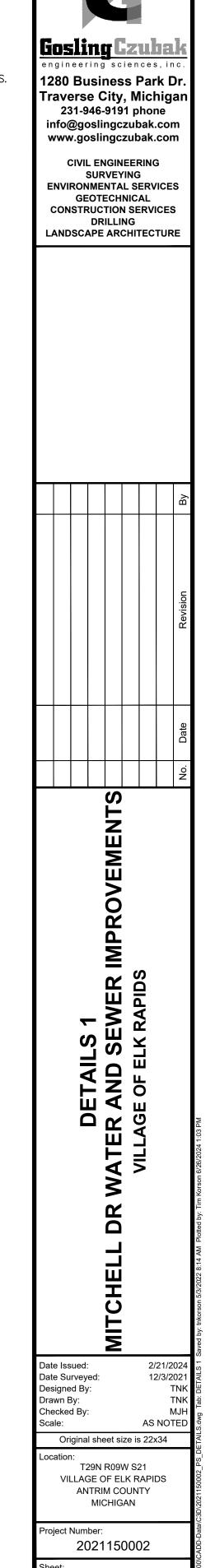
NOT TO SCALE

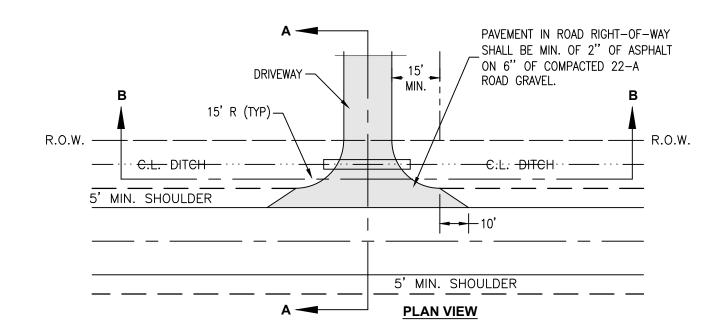


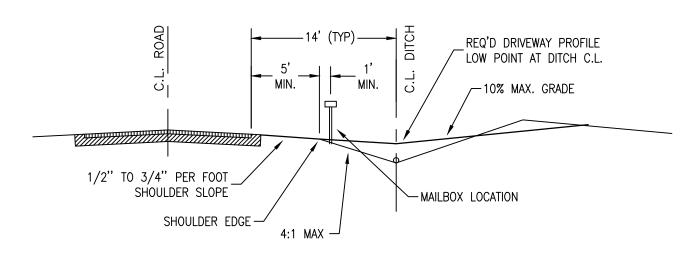
#### FORCE MAIN OUTLET DETAIL

NOT TO SCALE

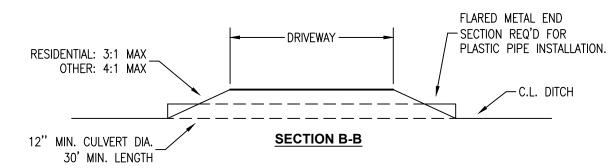
NOTE: TRANSITION TO D.I. FORCEMAIN A MIN. OF 10' OUTSIDE OF MANHOLE







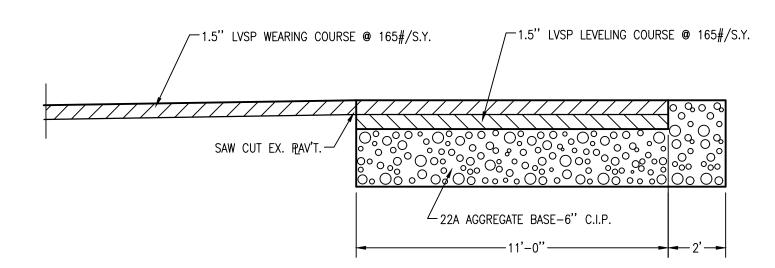
**SECTION A-A** 



#### **RESIDENTIAL DRIVEWAY APPROACH DETAIL**

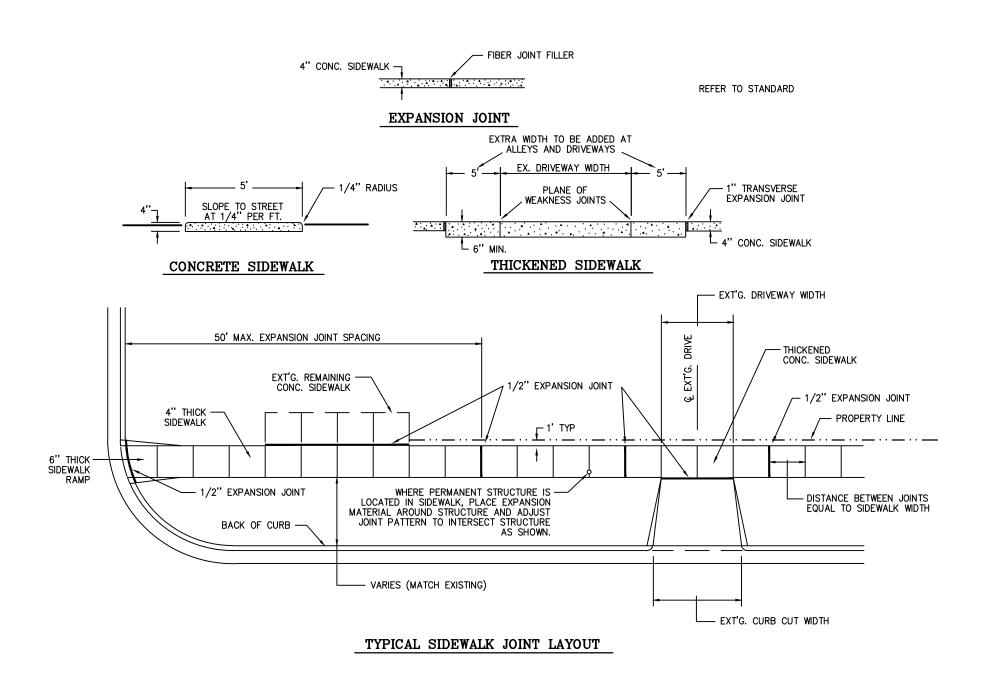
NOT TO SCALE

NOTE: THIS DETAIL APPLIES TO SINGLE FAMILY AND DUPLEX HOMES. ALL COMMERCIAL DRIVEWAYS AND MULTIPLE FAMILY DRIVEWAYS SHALL COMPLY WITH MDOT STANDARDS.



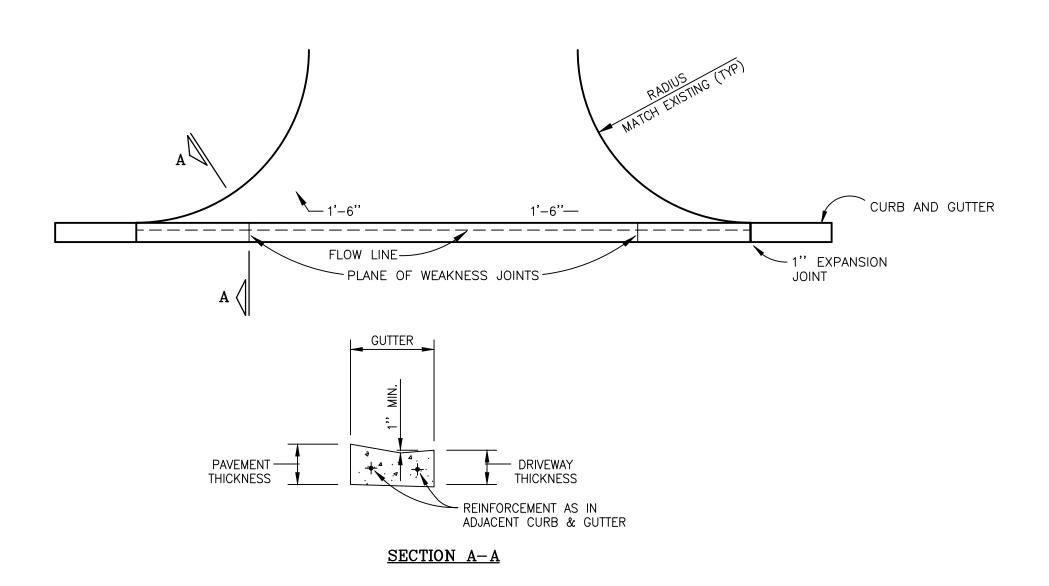
#### TYPICAL SECTION PAVEMENT

NOT TO SCALE



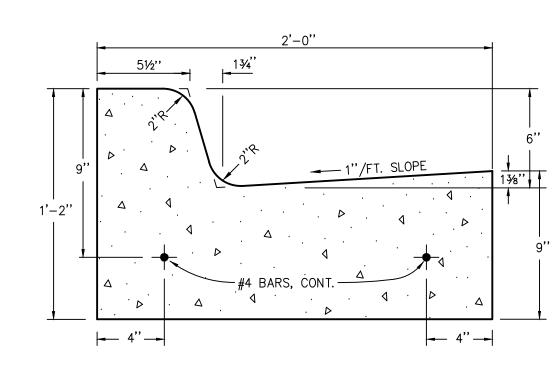
#### **CONCRETE SIDEWALK DETAILS**

NOT TO SCALE



#### **DETAIL DRIVE OPENING**

NOT TO SCALE



#### STANDARD M.D.O.T. "F4" **CONCRETE CURB & GUTTER DETAIL**

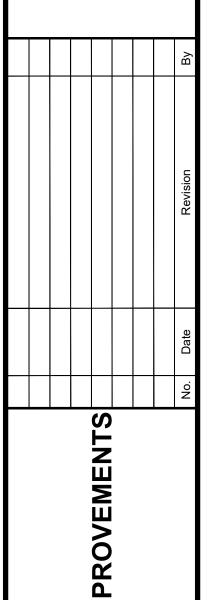
NOT TO SCALE



CIVIL ENGINEERING SURVEYING **ENVIRONMENTAL SERVICES** GEOTECHNICAL CONSTRUCTION SERVICES

DRILLING

LANDSCAPE ARCHITECTURE

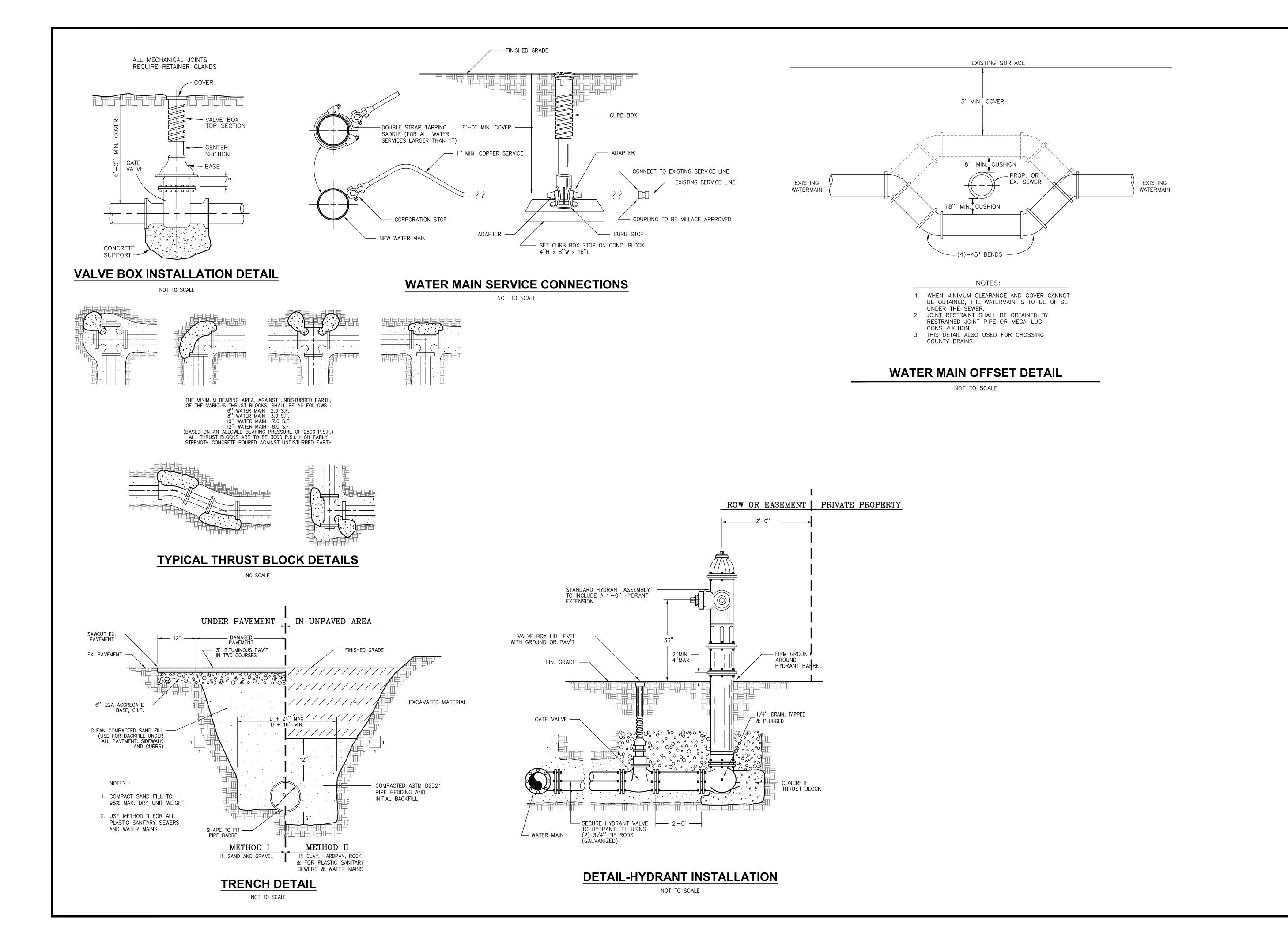


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DETAILS 2
VATER AND SEV

12/3/2021 AS NOTED Original sheet size is 22x34

T29N R09W S21 VILLAGE OF ELK RAPIDS ANTRIM COUNTY MICHIGAN



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LANDSCAPE ARCHITECTURE

DETAILS 3 HELL DR WATER AND SEWER IMPRO VILLAGE OF ELK RAPIDS

Date Issued: 2/21/2024
Date Surveyed: 12/3/2021
Designed By: TNK
Drawn By: TNK
Checked By: MJH
Scale: AS NOTED

Original sheet size is 22x34

Location:
T29N R09W S21
VILLAGE OF ELK RAPIDS
ANTRIM COUNTY
MICHIGAN

Project Number: 2021150002

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