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MIDLAND COUNTY ROAD COMMISSION
IN COOPERATION WITH
MICHIGAN DEPARTMENT OF TRANSPORTATION
AND
FEDERAL HIGHWAY ADMINISTRATION
PLAN AND PROFILE OF PROPOSED

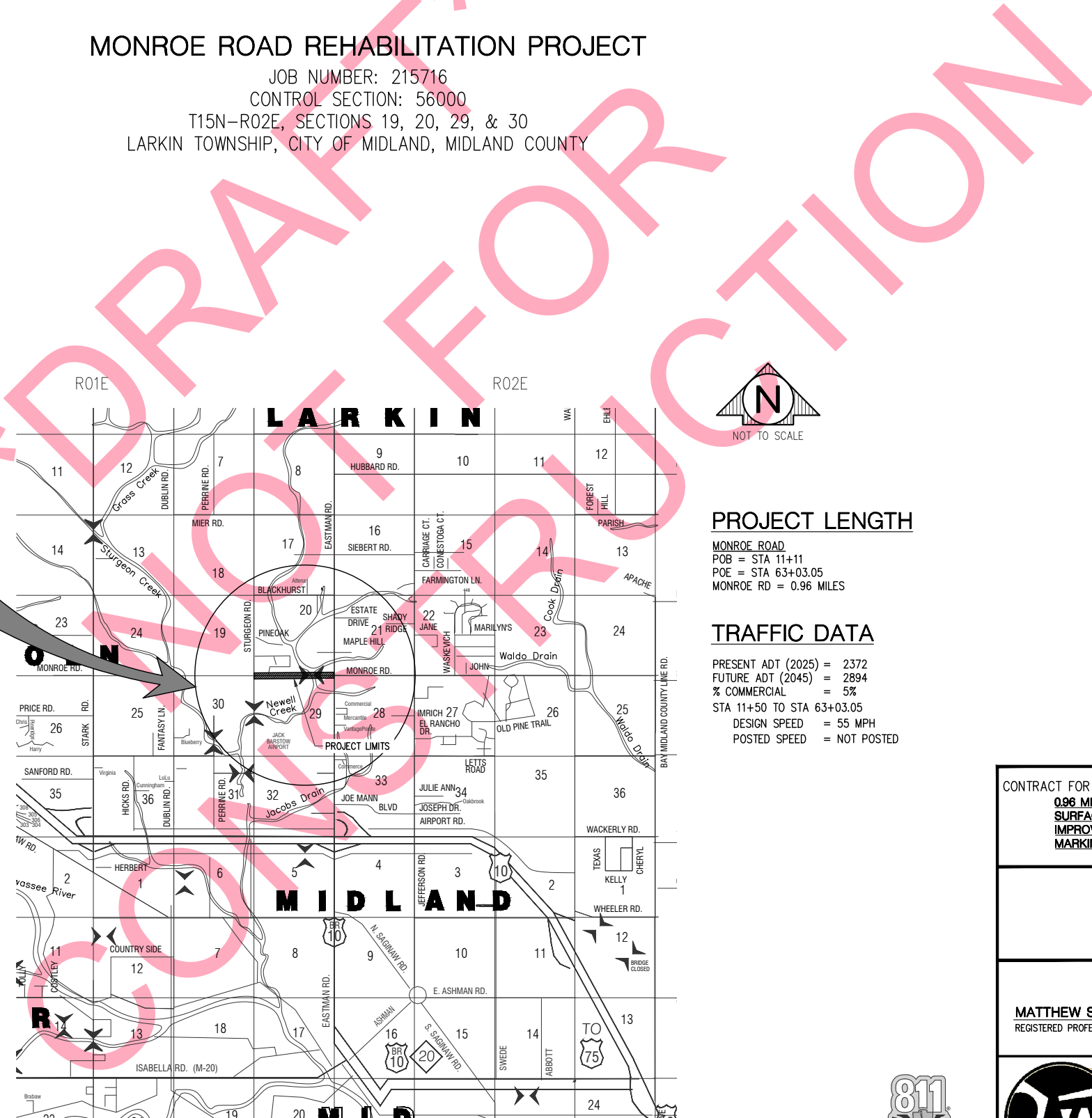
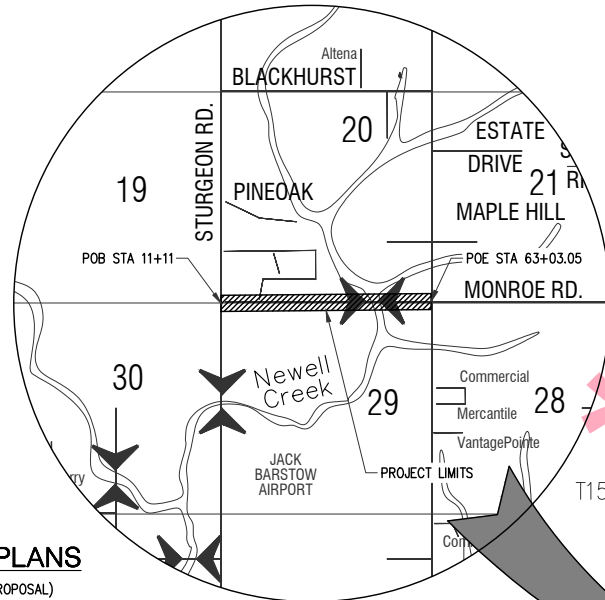
MONROE ROAD REHABILITATION PROJECT

JOB NUMBER: 215716
CONTROL SECTION: 56000
T15N-R02E, SECTIONS 19, 20, 29, & 30
LARKIN TOWNSHIP, CITY OF MIDLAND, MIDLAND COUNTY

PROJECT	COUNTY	TOWNSHIP	SHEET NO.	TOTAL SHEETS
MONROE ROAD	MIDLAND	LARKIN	01	27

THE PROPOSED IMPROVEMENTS COVERED BY THESE ROAD PLANS ARE IN ACCORDANCE WITH SECTION C (RESURFACING, RESTORATION, AND REHABILITATION) OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 2017 EDITION.

THE IMPROVEMENTS COVERED BY THESE ROAD PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS AND THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



NOT TO SCALE

PROJECT LENGTH

MONROE ROAD
POB = STA 11+11
POE = STA 63+03.05
MONROE RD = 0.96 MILES

TRAFFIC DATA

PRESENT ADT (2025) = 2372
FUTURE ADT (2045) = 2894
% COMMERCIAL = 5%
STA 11+50 TO STA 63+03.05
DESIGN SPEED = 55 MPH
POSTED SPEED = NOT POSTED

M.D.O.T. STANDARD PLANS

(* SPECIAL DETAILS WILL BE INCLUDED IN PROPOSAL)

PLAN NO.	TITLE
R-11-E	MONUMENT BOXES
R-29-J*	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
R-30-G	CONCRETE CURB AND CONCRETE GUTTER
R-35-E	CONCRETE SHOULDER GUTTER AND SPILLWAY
R-74-D	BUMPER & PARKING RAILS AND MISC. WOOD POSTS
R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
R-83-C	UTILITY TRENCHES
R-86-F	PRECAST CONCRETE END SECTION FOR PIPE CULVERT
R-88-E*	STEEL END SECTION
R-95-G	CULVERT SLOPED END SECTIONS
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
R-100-I*	SEEDING AND TREE PLANTING
R-105-D	GRADING CROSS-SECTIONS
R-110-B*	PAVEMENT SAFETY EDGE

M.D.O.T. TRAFFIC AND SAFETY STANDARD PLANS

(* SPECIAL DETAILS WILL BE INCLUDED IN PROPOSAL)

PLAN NO.	TITLE
PAVE-904-A*	TEMPORARY LONGITUDINAL LINE TYPES & PLACEMENT
PAVE-905-E	LONGITUDINAL LINE TYPES & PLACEMENT
PAVE-935-E	LEFT TURN LANE MARKINGS
PAVE-940-D	RIGHT TURN LANE AND ISLAND PAVEMENT MARKINGS
PAVE-945-D	INTERSECTION, STOP BAR & CROSSWALK MARKINGS
SIGN-100-G	STANDARD SIGN INSTALLATIONS
SIGN-120-E	ROADSIDE SIGN LOCATIONS & SUPPORT SPACING
SIGN-140-A	PLACEMENT OF D3-1 SIGNS ABOVE R1-1
SIGN-150-D	SIGN SUPPORT SELECTION CHARTS
SIGN-200-E	STEEL POSTS

UTILITIES

TELEPHONE	ELECTRIC	WATER	TELEPHONE AND FIBER
AT&T 502 BEACH STREET FLINT, MI 48502 CONTACT: MICHAEL BAIZ TELEPHONE: (810) 768-0109 mb1269@att.com	CONSUMERS ENERGY CO. 2400 WEISS STREET SAGINAW, MI 48602 CONTACT: VIRGIE L. DOWNS TELEPHONE: (989) 791-5938 Virgie.Downs@cmsenergy.com	CITY OF MIDLAND 333 W. ELLSWORTH STREET MIDLAND, MI 48640 CONTACT: TOM HOBLET TELEPHONE: (989) 837-3515	LUMEN TECHNOLOGIES 110 WEST MAIN STREET KINGSLEY, MI 49646-0569 CONTACT: WADE MILLER TELEPHONE: (989) 277-7943
FIBER CHARTER COMMUNICATIONS 105 KENT STREET IRON MOUNTAIN, MI 49801 CONTACT: MARK KELLY TELEPHONE: (989) 233-9404 MARK.KELLY@CHARTER.COM	GAS CONSUMERS ENERGY CO. 3201 E. COURT STREET FLINT, MI 48506 CONTACT: EVAN HUIZENGA TELEPHONE: (810) 847-8227	COUNTY DRAIN MIDLAND COUNTY DRAIN COMMISSION 220 W. ELLSWORTH STREET MIDLAND, MI 48640 CONTACT: JOSEPH SOVA TELEPHONE: (989) 832-6770	

CONTRACT FOR
0.96 MILES OF SHOULDER WIDENING, COLD MILLING HMA SURFACE, HMA PAVING, AGGREGATE SHOULDERS, DRAINAGE IMPROVEMENTS, SLOPE RESTORATION, PERMANENT PAVEMENT MARKINGS, AND PERMANENT SIGNING.

MIDLAND COUNTY ROAD COMMISSION
JONATHAN MYERS, PE
MANAGING DIRECTOR

PREPARED UNDER SUPERVISION OF
MATTHEW SEITZ, PE
REGISTERED PROFESSIONAL ENGINEER
6201057041
REGISTRATION NO.



127 S. Main Street
Mt. Pleasant, MI 48858
O: (989) 772-2138
www.rowepsc.com



Know what's below.
Call before you dig.

PROJECT LOCATION
NOT TO SCALE

SURVEY MONUMENTATION

△ TRAVERSE POINT	□ SET MONUMENT
▲ BENCHMARK	■ FOUND MONUMENT
● ALIGNMENT POINT	⊕ SECTION & 1/4 CORNER
○ SET IRON	⊕ 1/8 & 1/16 CORNER
● FOUND IRON	□ NGS & USGS MONUMENT
----- SECTION LINE	
----- EXISTING PROPERTY LINE (APPROX)	
----- PARCEL LINE / LOT LINE	
----- EXISTING EASEMENT LINE	
----- 33' ROW	
----- EXISTING RIGHT OF WAY	
----- 60' ROW	
----- PROPOSED EASEMENT	
----- PROPOSED RIGHT OF WAY	
----- 11+00	
----- PROJECT CONTROL LINE	

MISCELLANEOUS TOPO

⊗ SATELLITE DISH	♣ TRASH CAN
▲ ANTENNA	▢ PICNIC TABLE
○ COLUMN	▢ PARK BENCH
⋈ FLOOD LIGHT	▢ BBQ GRILL
⊕ FOUNTAIN	▢ DUMPSTER
↓ STATUE/SCULPTURE	▢ BIKE RACK
○ GRAVE MARKER	□ AIR CONDITIONING UNIT
▣ PLANTER BOX	□ PAY PHONE/BOOTH
○ ROCK	⊗ SOIL BORING
■ MAILBOX	⊗ MONITORING WELL
○ PAPER BOX	— BUMPER BLOCK
×× FENCE GATE	⊗ SWAMP OR WETLAND

SIGNS, SIGNALS & POSTS

○ FLAG POLE	— CANTILEVERED SIGN
⊕ ADVERTISING/BUSINESS SIGN	▢ PEDESTRIAN SIGNAL
○ POST (WOOD/METAL/CONCRETE/FENCE)	▢ PEDESTRIAN CROSSING BUTTON
○ HIGHWAY DELINEATOR POST	▢ TRAFFIC SIGNAL
⊕ EXISTING TRAFFIC SIGN	▢ RAILROAD CROSSING GATE
○ PARKING METER	⊕ RAILROAD CROSSING SIGNAL
▢ BILLBOARD	⊕ PROPOSED TRAFFIC SIGN
▢ CANTILEVERED TRAFFIC SIGNAL	

PLAYGROUND EQUIPMENT

⊕ SWING SET	> VOLLEYBALL POLE
— SLIDE (STRAIGHT)	⊕ MERRY-GO-ROUND
⊕ SLIDE (SPIRAL)	⊕ BASKETBALL HOOP POST
▢ MONKEY BARS (RECTANGLE)	— FOOTBALL/SOCCER GOAL
⊕ MONKEY BARS (ROUND)	

MISCELLANEOUS UTILITIES

□ CABLE TV RISER	○ UTILITY HANDHOLE
○ CABLE TV MARKER POST	○ STRAIN POLE
□ CIRCUIT BREAKER	⊕ UTILITY/LIGHT POLE
⊕ ELECTRIC METER	○ GUY WIRE
⊕ ELECTRIC OUTLET	○ GUY POLE
□ ELECTRIC RISER	○ UTILITY POLE
□ ELECTRIC TRANSFORMER PAD	⊕ WOOD LIGHT POLE
⊕ ELECTRIC TRANSMISSION TOWER	⊕ METAL LIGHT POLE
○ ELECTRIC MANHOLE	⊕ ORNAMENTAL LIGHT POLE
○ ELECTRIC MARKER POST	⊕ POLE BOX
□ TELEPHONE RISER	□ TRAFFIC CONTROL BOX
○ TELEPHONE MANHOLE	⊕ ELECTRIC VEHICLE CHARGING STATION
○ TELEPHONE MARKER POST	○ EXISTING MISCELLANEOUS MANHOLE
○ FIBER OPTIC MARKER POST	
----- 0/H	----- EXISTING OVERHEAD UTILITY LINE
----- U/G ELEC	----- EXISTING U.G. ELECTRIC LINE
----- U/G TEL	----- EXISTING U.G. TELEPHONE LINE
----- U/G F/O	----- EXISTING U.G. FIBER OPTIC LINE
----- U/G CATV	----- EXISTING U.G. CABLE TV LINE

GAS

⊕ GAS METER	○ PROpane TANK
□ GAS RISER	⊕ GAS TEST STATION
• GAS STOP BOX	⊕ GAS FILLPORT
• GAS VALVE	⊕ GAS PUMP
○ GAS VENT	○ GAS MANHOLE
× GAS BLOW OFF	○ GAS MARKER POST
----- 6" S-MP GAS	----- EXISTING U.G. GAS LINE

WATER MAIN

⊕ EXISTING FIRE HYDRANT	⊕ EXISTING WATER FAUCET/SPIGOT
• EXISTING WATER GATE VALVE AND BOX	○ EXISTING WATER MANHOLE
• EXISTING WATER STOP BOX	• EXISTING WATER VALVE
⊕ EXISTING WATER GATE VALVE AND WELL	• EXISTING WATER POST VALVE
□ EXISTING WATER METER PIT	• EXISTING WATER AIR RELEASE VALVE
○ EXISTING WATER WELL	○ EXISTING WATER MARKER POST
× EXISTING SPRINKLER HEAD	⊕ PROPOSED FIRE HYDRANT
⊕ EXISTING POST HYDRANT	⊕ PROPOSED WATER GATE VALVE AND BOX
• EXISTING WATER BACK FLOW PREVENTER	• PROPOSED WATER STOP BOX
⊕ EXISTING WATER TOWER	⊕ PROPOSED WATER GATE VALVE AND WELL
• EXISTING SPRINKLER VALVE	⊕ PROPOSED WATER MAIN REDUCER
⊕ EXISTING WATER METER	□ PROPOSED WATER MAIN SLEEVE
----- 12" WM	----- EXISTING WATER MAIN
××××××××××××××××××××××××	----- REMOVE WATER MAIN
~~~~~	----- ABANDON WATER MAIN
----- 12" WM	----- PROPOSED WATER MAIN

**STORM SEWER**

⊕ EXISTING CURB INLET	⊕ PROPOSED CATCH BASIN IN CURB LINE (5' DIA AND SMALLER)
▢ EXISTING SQUARE CATCHBASIN	⊕ PROPOSED CATCH BASIN IN CURB LINE (6' DIA AND LARGER)
• EXISTING ROUND CATCHBASIN	⊕ PROPOSED CATCH BASIN IN GREEN SPACE (5' DIA AND SMALLER)
• EXISTING DOWNSPOUT	⊕ PROPOSED CATCH BASIN IN GREEN SPACE (6' DIA AND LARGER)
• EXISTING STORM SEWER CLEANOUT	• PROPOSED STORM MANHOLE (5' DIA AND SMALLER)
○ EXISTING STORM MANHOLE	• PROPOSED STORM MANHOLE (6' DIA AND LARGER)
▢ EXISTING PIPE INLET/OUTLET	▶ PROPOSED CULVERT END SECTION
• EXISTING STORM MARKER POST	○ PROPOSED STORM SEWER CLEANOUT
⊕ EX 1812 EXISTING STORM SEWER STRUCTURE NUMBER	⊕ 1 PROPOSED STORM SEWER STRUCTURE NUMBER
----- 12" STM	----- EXISTING STORM SEWER
----- 12" CONC	----- EXISTING DRIVE/CROSS CULVERT
××××××××××××××××××××××××	----- REMOVE STORM SEWER
~~~~~	----- ABANDON STORM SEWER
----- 12" STM	----- PROPOSED STORM SEWER LESS THAN 24"
----- 12" STM	----- PROPOSED STORM SEWER 24" AND GREATER

SANITARY SEWER

○ EXISTING SANITARY MANHOLE	• EXISTING SANITARY SEWER CLEANOUT/RISER
○ EXISTING SANITARY PUMP STATION	○ EXISTING SANITARY MARKER POST
• EXISTING SANITARY SEWER VALVE	• PROPOSED SANITARY SEWER MANHOLE
⊕ EXISTING SEPTIC TANK	• PROPOSED SANITARY SEWER CLEANOUT
⊕ EX 5236 EXISTING SANITARY SEWER STRUCTURE NUMBER	⊕ A PROPOSED SANITARY SEWER STRUCTURE NUMBER
----- 12" SAN	----- EXISTING SANITARY SEWER
××××××××××××××××××××××××	----- REMOVE SANITARY SEWER
~~~~~	----- ABANDON SANITARY SEWER
----- 12" SAN	----- EXISTING SANITARY FORCE MAIN
----- 12" SAN FM	----- REMOVE SANITARY FORCE MAIN
××××××××××××××××××××××××	----- ABANDON SANITARY FORCE MAIN
----- 12" SAN FM	----- PROPOSED SANITARY SEWER

**TREES & SHRUBS**

⊕ STUMP	⊕ CONIFEROUS TREE
○ DECIDUOUS TREE	⊕ CONIFEROUS SHRUB
⊕ DECIDUOUS SHRUB	⊕ DEAD TREE
~~~~~	----- EXISTING EDGE OF WOODS
~~~~~	----- EXISTING EDGE OF BRUSH
~~~~~	----- PROPOSED EDGE OF WOODS
~~~~~	----- PROPOSED EDGE OF BRUSH

**PARCEL INFORMATION**

401-069 PARCEL/TAX IDENTIFICATION NUMBER  
 #5324 EXISTING BUILDING AND ADDRESS/BUSINESS NAME

**CAUTION SYMBOLS**

⚠ CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND	USED WITH UNDERGROUND GAS & ELECTRICAL LINES
⚠ CAUTION FIBER OPTIC	USED WITH FIBER OPTIC LINES
⚠ CAUTION CRITICAL UNDERGROUND UTILITY	USED WITH CRITICAL UNDERGROUND LINES

**PLAN VIEW LINETYPES**

-----	EXISTING CENTERLINE OF DITCH
-----	EXISTING FENCE
-----	EXISTING GUARDRAIL
-----	EXISTING RAILROAD TRACK
-----	EXISTING CONTOUR MAJOR
-----	EXISTING CONTOUR MINOR
-----	EXISTING EDGE OF WETLAND
-----	EXISTING SHORELINE / EDGE OF WATER
-----	EXISTING TOP OF BANK
-----	EXISTING TOE OF SLOPE
-----	PROPOSED DITCH CENTERLINE
-----	PROPOSED FENCE
-----	PROPOSED CONTOUR MAJOR
-----	PROPOSED CONTOUR MINOR
-----	PROPOSED SLOPE STAKE LINE
-----	PROPOSED SILT FENCE

**PROPOSED CALLOUTS**

TOPO CALLOUTS	PLAN VIEW	
ADJ	⊕ ADJ	ADJUST STRUCTURE
ADJ-X	⊕ ADJ-X	ADJUST STRUCTURE W/ NEW COVER
ADJ-B/O	⊕ ADJ-B/O	ADJUST STRUCTURE BY OTHERS
REC	⊕ REC	RECONSTRUCT STRUCTURE
REL	⊕ REL	RELOCATE
REL-B/O	⊕ REL-B/O	RELOCATE BY OTHERS
REM	⊕ R	REMOVE
R&R	⊕ R&R	REMOVE AND REPLACE
SALV	⊕ SALV	SALVAGE
SAVE	⊕ S	SAVE
ABN	⊕ A	ABANDON
CLR	⊕ C	CLEARING
	⊕ B	BULKHEAD
	⊕ SR-X	SIDEWALK RAMP TYPE
	⊕ ##	SOIL EROSION CONTROL MEASURE

**GPR LOCATED EXISTING U.G. LINES**

----- GPR CATV	----- GPR CATV	----- GPR CATV	U.G. CABLE TV LINE (GPR LOCATED)
----- GPR ELEC	----- GPR ELEC	----- GPR ELEC	U.G. ELECTRIC LINE (GPR LOCATED)
----- GPR FO	----- GPR FO	----- GPR FO	U.G. FIBER OPTIC LINE (GPR LOCATED)
----- GPR GAS	----- GPR GAS	----- GPR GAS	U.G. GAS LINE (GPR LOCATED)
----- GPR MSC	----- GPR MSC	----- GPR MSC	U.G. MISCELLANEOUS LINE (GPR LOCATED)
----- GPR SAN	----- GPR SAN	----- GPR SAN	U.G. SANITARY SEWER LINE (GPR LOCATED)
----- GPR STM	----- GPR STM	----- GPR STM	U.G. STORM SEWER LINE (GPR LOCATED)
----- GPR TELE	----- GPR TELE	----- GPR TELE	U.G. TELEPHONE LINE (GPR LOCATED)
----- GPR UNK	----- GPR UNK	----- GPR UNK	U.G. UNKNOWN LINE (GPR LOCATED)
----- GPR WTR	----- GPR WTR	----- GPR WTR	U.G. WATER LINE (GPR LOCATED)

**PAVEMENT IDENTIFICATION**

-----	EXISTING EDGE OF GRAVEL
-----	EXISTING CURB AND GUTTER
-----	PROPOSED FLOW CURB AND GUTTER
-----	PROPOSED SPILL CURB AND GUTTER

**EXISTING HATCHING LEGEND**

⊕	EXISTING PLAIN RIPRAP
⊕	EXISTING HEAVY RIPRAP

**REMOVAL HATCHING LEGEND**

⊕	PAVT, REM
⊕	HMA SURFACE, REM
⊕	COLD MILLING EXISTING PAVEMENT

**PROPOSED HATCHING LEGEND**

⊕	PROPOSED PAVEMENT
⊕	PROPOSED CONCRETE DRIVEWAY
⊕	PROPOSED HMA APPROACH/DRIVEWAY



Know what's below.  
Call before you dig.

**PLAN SUBMITTALS AND CHANGES**

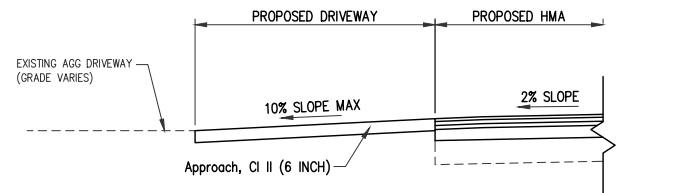
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

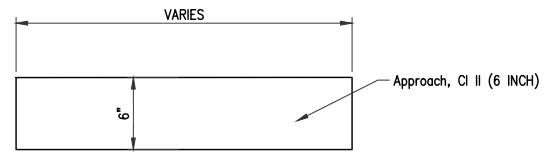
ROWE PROFESSIONAL SERVICES COMPANY  
 127 S. Main Street  
 Mt. Pleasant, MI 48858  
 O: (989) 772-2138  
 www.rowepsc.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 LEGEND SHEET  
 SHT# 2 OF 27  
 JOB No: 2400715

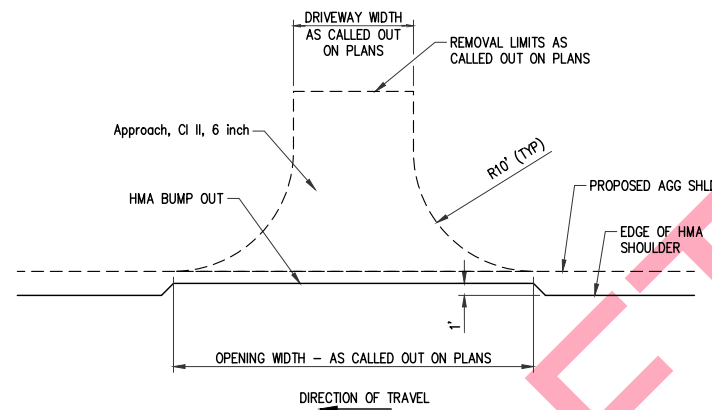
R:\Projects\2400715\Dig\Construction Drawings\SP-2400715-LEG.dwg PLOTTED: 2/18/2025 10:35 AM



**PROPOSED GRAVEL DRIVEWAY DETAIL**  
NOT TO SCALE

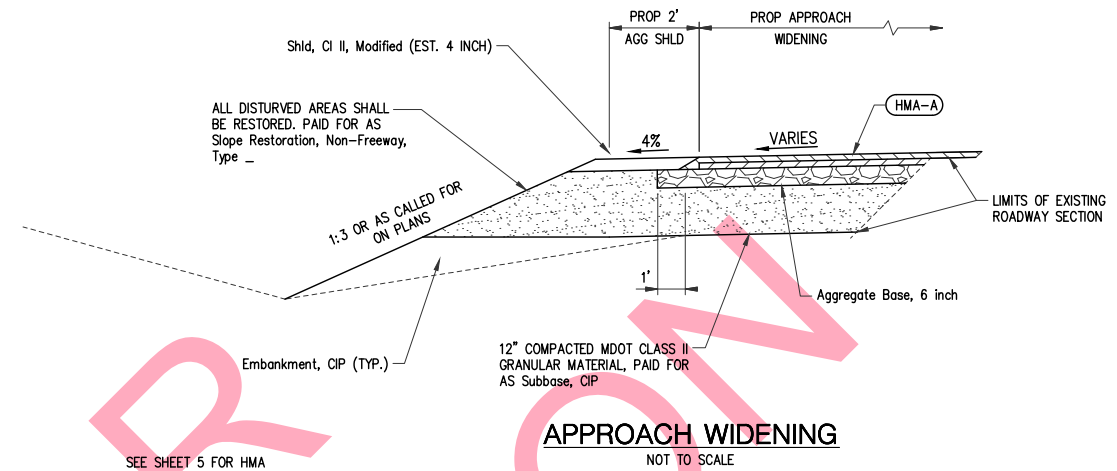


**PROPOSED GRAVEL DRIVEWAY SECTION**  
NOT TO SCALE



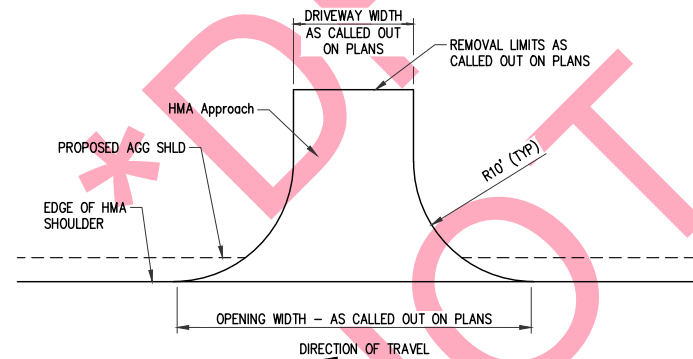
**TYPICAL AGGREGATE DRIVE**  
NOT TO SCALE

PAVE ONE FOOT WIDER THAN THE EDGE OF ROADWAY. LIMITS AS DIRECTED BY THE ENGINEER. ALL COSTS INCLUDED IN HMA, 4EL PAY ITEM.



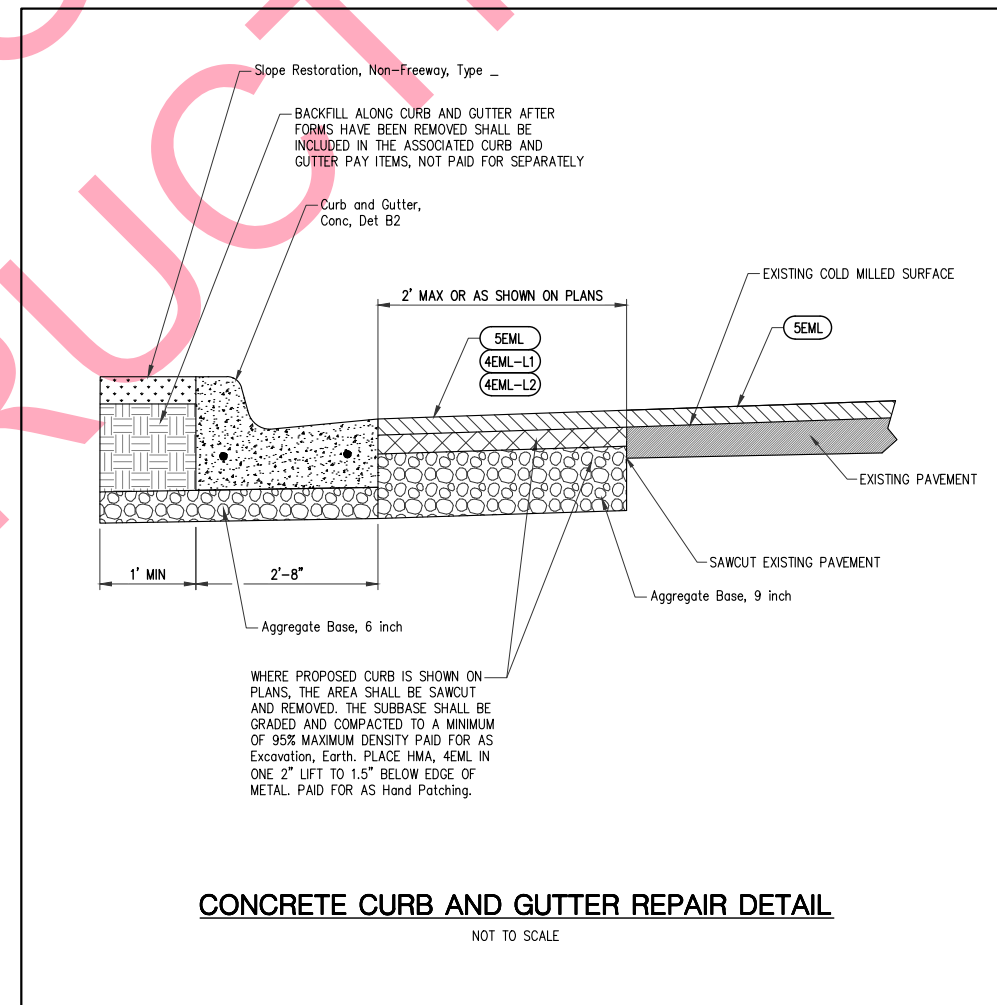
**APPROACH WIDENING**  
NOT TO SCALE

SEE SHEET 5 FOR HMA APPLICATION INFORMATION



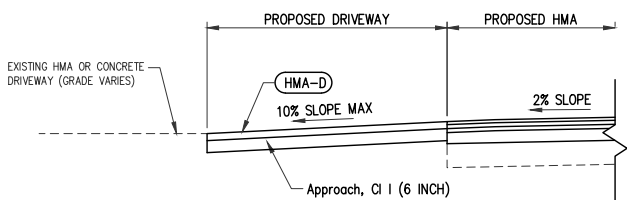
**TYPICAL RESIDENTIAL HMA DRIVE**  
NOT TO SCALE

NOTE: LENGTH TO BE AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

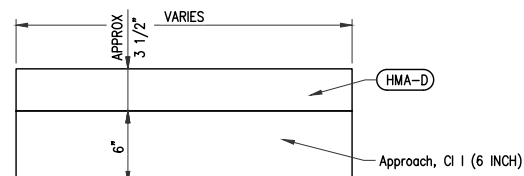


**CONCRETE CURB AND GUTTER REPAIR DETAIL**  
NOT TO SCALE

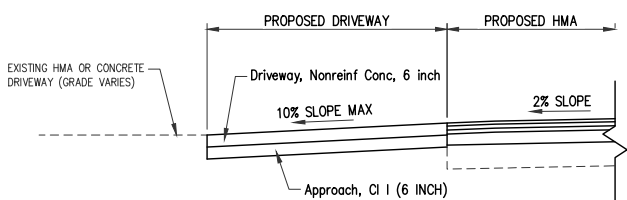
WHERE PROPOSED CURB IS SHOWN ON PLANS, THE AREA SHALL BE SAWCUT AND REMOVED. THE SUBBASE SHALL BE GRADED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PAID FOR AS Excavation, Earth. PLACE HMA, 4EML IN ONE 2" LIFT TO 1.5" BELOW EDGE OF METAL. PAID FOR AS Hand Patching.



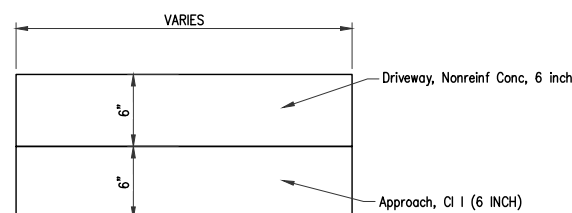
**PROPOSED HMA DRIVEWAY DETAIL**  
NOT TO SCALE



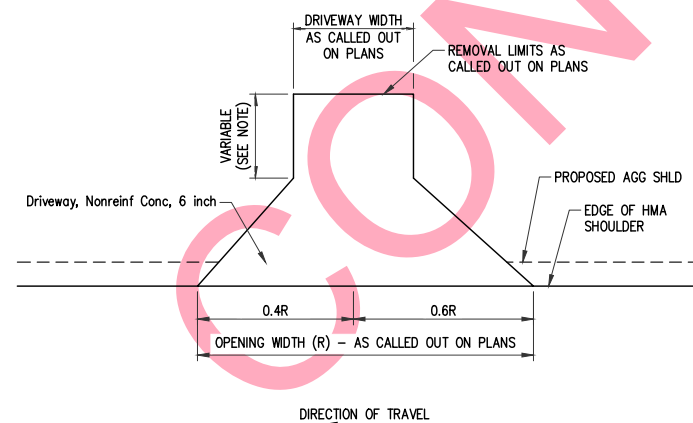
**PROPOSED HMA DRIVEWAY SECTION**  
NOT TO SCALE



**PROPOSED CONCRETE DRIVEWAY DETAIL**  
NOT TO SCALE



**PROPOSED CONCRETE DRIVEWAY SECTION**  
NOT TO SCALE



**TYPICAL RESIDENTIAL CONCRETE DRIVE**  
NOT TO SCALE

NOTE: LENGTH TO BE AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: NO SCALE

**ROWE PROFESSIONAL SERVICES COMPANY**  
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Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
NOTE SHEET

PLAN SUBMITTALS AND CHANGES		REV:
DATE	DESCRIPTION	
	PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	

SHT# 3 OF 27  
JOB No: 2400715



**GENERAL CONSTRUCTION NOTES**

**EMERGENCY CONTACTS**  
BEFORE BEGINNING WORK ON THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF EMERGENCY CONTACTS. AT LEAST ONE PERSON REPRESENTING THE CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO EMERGENCIES THROUGHOUT THE LIFE OF THE PROJECT, 24 HOURS A DAY, 7 DAYS A WEEK.

**UNDERGROUND UTILITY IDENTIFICATION AND LOCATION**  
THE CONTRACTOR SHALL CONTACT MISS DIG (1-800-482-7171, 811, OR WWW.MISSDIG.ORG) A MINIMUM OF THREE WORK DAYS IN ADVANCE OF BEGINNING EXCAVATION. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND NOTIFY UTILITY AGENCIES WITHIN THE PROJECT AREA WHICH DO NOT PARTICIPATE IN THE MISS DIG NOTIFICATION PROGRAM.

**PUBLIC UTILITIES**  
EXISTING UTILITIES ARE SHOWN BASED UPON RECORDS AND LOCATIONS PROVIDED BY UTILITY AGENCIES. THE INFORMATION SHOWN IS CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. UNLESS THE PLANS SPECIFICALLY SHOW THAT EXISTING UTILITIES ARE TO BE MOVED, THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN EXISTING UTILITIES.

**VERIFICATION OF UNDERGROUND UTILITIES**  
THE CONTRACTOR SHALL EXCAVATE AND LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA IN ADVANCE OF CONSTRUCTION TO VERIFY THEIR ACTUAL LOCATION. POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL MAKE SUCH CHANGES TO GRADE AND ALIGNMENT OF PROPOSED WORK AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS, AT NO INCREASE IN COST TO THE OWNER.

**UTILITY SERVICE**  
UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL EXISTING UTILITIES ARE TO REMAIN IN SERVICE DURING THE PROJECT.

**MAILBOXES**  
MAILBOXES LOCATED WITHIN THE LIMITS OF EXCAVATION, GRADING, OR CONSTRUCTION SHALL BE REMOVED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR. TEMPORARY MAILBOXES SHALL BE PROVIDED AND MAINTAINED DURING THE PROJECT. UPON COMPLETION OF GRADING OR CONSTRUCTION ACTIVITIES, THE ORIGINAL MAILBOX SHALL BE REINSTALLED.

**MAILBOXES (AND/OR SUPPORTS) WHICH ARE DAMAGED AS A RESULT OF THE PROJECT SHALL BE REPLACED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. MAILBOXES SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS OF THE U.S. POSTAL SERVICE AND THE REGULATIONS OF THE AGENCY HAVING JURISDICTION OVER THE ROADS AND STREETS IN THE PROJECT AREA.**

**PRIVATE IRRIGATION SYSTEMS**  
WHERE IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE AND PROTECT THEIR IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE NOTIFICATION.

**WHERE THE OWNER HAS NOT REMOVED THEIR PRIVATE IRRIGATION SYSTEM, THE CONTRACTOR SHALL CUT AND PLUG THOSE SECTIONS OF PIPING WHICH INTERFERE WITH CONSTRUCTION. SPRINKLER HEADS, VALVES, AND PIPING WHICH INTERFERES WITH THE CONTRACTOR'S WORK, SHALL BE REMOVED AND STOCKPILED ON THE OWNER'S PROPERTY.**

**SOIL BORINGS / PAVEMENT CORES**  
LOGS OF SOIL BORINGS OR PAVEMENT CORES REPRESENT THE SUBSURFACE CONDITIONS ENCOUNTERED AT SPECIFIC POINTS. THE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.

**MAINTAINING TRAFFIC**  
LOCAL AND EMERGENCY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA.

**WHEN EXCAVATION, FRESH CONCRETE, OR OTHER CONSTRUCTION WORK WILL RESULT IN THE CLOSURE OF A STREET OR DRIVEWAY FOR A PERIOD OF TIME, THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL AFFECTED RESIDENTS AND BUSINESSES IN ADVANCE.**

**THE ENGINEER SHALL NOTIFY EMERGENCY RESPONSE AGENCIES IN ADVANCE OF ROAD CLOSURES OR THE ESTABLISHMENT OF DETOURS.**

**MIDLAND COUNTY CENTRAL DISPATCH**  
TELEPHONE: 989-839-6464

**MIDLAND COUNTY SHERIFF**  
TELEPHONE: 989-839-4600

**MIDLAND PUBLIC SCHOOLS**  
TELEPHONE: 989-923-5041

**SCHEDULE**  
THE CONTRACTOR SHALL COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP WORK ON THE PROJECT ONCE BEGUN.

**ALIGNMENT**  
ALIGNMENT AND GRADES FOR CURB AND GUTTER (INCLUDING THROUGH RAMPS AND DRIVEWAY OPENINGS) SHOWN ON THE PLANS ARE FOR THE TOP, BACK OF CURB, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE PLANS.

**THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES LOCATED IN THE CURB LINE IS TO THE CENTER OF THE CASTING.**

**WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR MANHOLE CASTINGS, THE ELEVATION PROVIDED IS FOR THE TOP OF THE CASTING.**

**WHERE RIM ELEVATIONS ARE PROVIDED FOR INLET TYPE CASTINGS, THE ELEVATIONS ARE PROVIDED AS FOLLOWS:**  
· CURB INLETS - THE ELEVATION OF THE TOP OF CURB  
· ALL OTHER INLETS - THE ELEVATION OF THE FLOW LINE

**WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR INLETS OR MANHOLE CASTINGS, THE ELEVATIONS PROVIDED ARE CONSIDERED PRELIMINARY. THE CONTRACTOR SHALL MAKE THE FINAL ADJUSTMENT FOLLOWING THE ESTABLISHMENT OF ACTUAL GRADING AND PAVEMENT ELEVATIONS.**

**CONSTRUCTION STAKING**  
CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, THE CONTRACTOR SHALL REQUEST STAKING AT LEAST THREE WORKING DAYS IN ADVANCE.

**CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER, STAKING WILL BE PROVIDED ONE TIME. THE CONTRACTOR SHALL PROTECT AND PRESERVE SURVEY CONTROL AND STAKING. RE-STAKING WILL BE AT THE CONTRACTOR'S EXPENSE.**

**SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS**  
THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS, BENCHMARKS, OR SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES; A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE-SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

**PROTECTION OF TREES, SHRUBS, AND LANDSCAPING**  
ALL TREES, SHRUBS, AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES, SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

**CONSTRUCTION SIGNING AND BARRICADING**  
THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES. BARRICADES LEFT IN PLACE AFTER SUNSET SHALL BE LIGHTED.

**THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND OR AIR FLOW FROM VEHICLES.**

**THE CONTRACTOR SHALL PROVIDE SIGNING, BARRICADES, TRAFFIC REGULATORS, CONES, AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT AREA, THE CURRENT MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE PLANS AND SPECIFICATIONS.**

**THE CONTRACTOR SHALL COVER OR REMOVE TEMPORARY SIGNS DURING PERIODS WHEN THEY ARE NOT APPROPRIATE.**

**TURF ESTABLISHMENT**  
ALL DISTURBED AREAS WHICH ARE NOT TO BE SURFACED WITH PAVEMENT, AGGREGATE OR OTHER APPROVED SURFACES SHALL BE ESTABLISHED WITH TURF.

**TURF AREAS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE. DISTURBED AREAS SHALL BE SURFACED WITH FOUR INCHES OF SCREENED TOPSOIL.**

**THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH TURF WHICH IS SUBSTANTIALLY FREE OF BARE SPOTS AND FREE OF WEEDS. THE GROUND SURFACE IN TURF AREAS SHALL BE SMOOTH AND PROVIDE A NATURAL TRANSITION TO ADJACENT, UNDISTURBED AREAS.**

**THE CONTRACTOR IS RESPONSIBLE TO PROVIDE WATERING, WEEDING, RESEEDING, AND REWORKING AS NECESSARY TO ESTABLISH TURF AREAS TO THE REQUIRED STANDARD.**

**ADA COMPLIANCE**  
ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE GUIDELINES OR STANDARDS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN FINISHED CONDITIONS THAT DO NOT MEET THE ADA REQUIREMENTS, GUIDELINES, OR STANDARDS; THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND REPLACE WORK DETERMINED TO BE NOT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS, GUIDELINES, OR STANDARDS.

**BACKFILL AND EMBANKMENT**  
BACKFILL OF AN EXCAVATION UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE, SHALL BE SAND, MEETING THE REQUIREMENTS OF GRANULAR MATERIAL CLASS III AS DESCRIBED IN THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE SAND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

**BACKFILL OF AN EXCAVATION WHICH IS NOT UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE MAY BE SUITABLE EXCAVATED MATERIAL OR OTHER SOIL, WHICH IS FREE OF ORGANIC MATTER, STONES AND ROCKS, ROOTS, BROKEN CONCRETE, FROZEN MATERIAL, OR DEBRIS. THE BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF ITS MAXIMUM UNIT WEIGHT.**

**THE CONTRACTOR SHALL INDICATE THE SOURCE OF SAND USED FOR BACKFILL TO THE ENGINEER, AND PROVIDE THE ENGINEER WITH THE RESULTS OF A GRADATION TEST PERFORMED ON A SAMPLE OF THE SAND. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF USING SAND FROM OTHER SOURCES.**

**EMBANKMENT USED TO BUILD THE SUBGRADE TO REQUIRED ELEVATION SHALL BE SUITABLE SOIL EXCAVATED FROM THE PROJECT SITE, OR FURNISHED BY THE CONTRACTOR FROM OTHER SOURCES. SUITABLE SOIL IS FREE FROM ORGANIC MATTER, ROCKS AND STONES, FROZEN MATERIAL, BROKEN CONCRETE, AND DEBRIS.**

**EMBANKMENT CONSTRUCTED OF GRANULAR SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.**

**EMBANKMENT CONSTRUCTED OF COHESIVE SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.**

**DENSITY TESTING**  
THE MAXIMUM UNIT WEIGHT OF SAND AND OTHER GRANULAR SOILS WILL BE DETERMINED BY THE ONE POINT CONE TEST, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.

**THE MAXIMUM UNIT WEIGHT OF COHESIVE SOILS WILL BE DETERMINED BY THE ONE POINT PROCTOR TEST, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.**

**WORK HOURS**  
UNLESS PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS OR LIMITED BY LOCAL ORDINANCE, THE CONTRACTOR SHALL WORK WITHIN OF THE FOLLOWING TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER: MONDAY THROUGH FRIDAY DAYLIGHT HOURS ONLY SATURDAY MUST BE APPROVED BY ENGINEER SUNDAY NO WORK WILL BE ALLOWED

**THE CONTRACTOR SHALL NOT WORK ON HOLIDAYS UNLESS APPROVED BY THE OWNER.**

**LANDSCAPING**  
WHERE LANDSCAPING WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE OR RELOCATE THEIR LANDSCAPING. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE NOTIFICATION.

**WHERE THE OWNER HAS NOT REMOVED THEIR LANDSCAPING, THE CONTRACTOR SHALL CONTINUE WORK PER PLAN AS SCHEDULED. THE LANDSCAPING WILL BE REMOVED BY THE CONTRACTOR AND THE AREA WILL BE RESTORED PER PLANS AND SPECIFICATIONS.**

**DRAINAGE**

THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE.

**WHERE CONSTRUCTION HAS DISTURBED EXISTING DITCHES, SWALES, OR OTHER DRAINAGE FACILITIES; THE CONTRACTOR SHALL RESTORE THEM TO THEIR GRADES AND DIMENSIONS WHICH EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION, UNLESS DIRECTED OTHERWISE.**

**DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.**

**ROAD PROJECTS**

**ADJUSTING STRUCTURES**  
WHERE CASTINGS FOR MANHOLES, CATCH BASINS, INLETS, VALVE BOXES, AND MONUMENT BOXES ARE TO BE ADJUSTED TO MEET A NEW PAVEMENT SURFACE ELEVATION, THE FINAL ADJUSTMENT SHALL NOT BE COMPLETED UNTIL ALL PAVEMENT COURSES HAVE BEEN PLACED EXCEPT THE FINAL COURSE. THE FINAL ADJUSTMENT SHALL BE COMPLETED JUST PRIOR TO PLACEMENT OF THE FINAL COURSE OF PAVEMENT.

**THE MATERIALS AND PROCEDURES FOR ADJUSTING STRUCTURES SHALL MEET THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE ROAD AND UTILITIES.**

**SUBGRADE PREPARATION**  
TOPSOIL, PEAT, AND ORGANIC MATERIAL SHALL BE EXCAVATED AND REMOVED.

**SOFT AND YIELDING SOILS SHALL BE REMOVED OR DRIED IF THE RESULT OF EXCESSIVE MOISTURE CONTENT.**

**PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENT ON A SUBGRADE; THE SUBGRADE SHALL BE PROOF-ROLLED TO DETERMINE THE SUITABILITY OF THE SUBGRADE. THE CONTRACTOR SHALL DRIVE A HEAVY PIECE OF WHEELED CONSTRUCTION EQUIPMENT OVER THE SUBGRADE WHILE THE ENGINEER IS OBSERVING. THE CONSTRUCTION OF FILLS, SUBBASE, OR PAVEMENTS SHALL NOT PROCEED UNTIL THE SUBGRADE HAS BEEN DEMONSTRATED TO BE FREE OF SOFT AREAS.**

**THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE MOISTURE CONTENT OF SUBGRADE SOILS WITHIN A SUITABLE RANGE TO ALLOW FOR COMPACTION TO THE REQUIRED DENSITY. WHEN THE SOIL IS TOO DRY, THE CONTRACTOR SHALL ADD WATER. WHEN THE SOIL IS TOO WET, THE CONTRACTOR SHALL PROVIDE DRAINAGE OR AERATE THE SOIL.**

**THE SURFACE OF THE SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT, PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENTS.**

**CURB AND GUTTERS**  
THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DIMENSIONS OF CURB OPENINGS FOR DRIVEWAYS, RAMPS, AND DRAINAGE STRUCTURES.

**HOT MIX ASPHALT (HMA) PAVING**  
PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE SHALL BE SWEEPED TO REMOVE ALL DIRT AND DEBRIS.

**A BITUMINOUS BOND COAT SHALL BE APPLIED TO PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE AND ALLOWED TO CURE PRIOR TO CONSTRUCTING THE NEW PAVEMENT COURSE.**

**HMA PAVEMENT SHALL NOT BE PLACED WHEN THE SURFACE BEING OVERLAID IS WET, OR WHEN RAIN IS FORECAST OR THREATENING.**

**DRIVEWAY CONSTRUCTION**

**DRIVEWAY SLOPES SHALL NOT EXCEED 10%, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER.**

**THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH SUITABLE NOTICE BEFORE REMOVING AND REPLACING AN EXISTING DRIVEWAY.**

**GRAVEL AND FIELD DRIVEWAYS SHALL BE PAVED 1 FOOT WIDER THAN THE EDGE OF ROADWAY DURING MAINLINE PAVING. ALL COSTS SHALL BE INCLUDED IN HMA PAY ITEMS**

**STORM SEWER CONSTRUCTION NOTES**

**DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM PRECAST CONCRETE MANHOLE SECTIONS, MEETING ASTM C478.**

**SUMPS IN DRAINAGE STRUCTURES AND PIPELINES SHALL BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF ACCEPTANCE BY THE OWNER.**

**Sewer, CI A, ___ inch, Tr Det ___ SHALL BE PLASTIC PIPE MEETING ASTM 2881 OR AASHTO M330. SEWER SHALL BE MANDREL TESTED AND MDOT FORM 1975 SHALL BE COMPLETED.**

**CULVERT NOTES**

**Culv, CI __, ___ inch SHALL BE PLASTIC PIPE MEETING ASTM F2881 OR AASHTO M330. CULVERTS SHALL BE MANDREL TESTED AND MDOT FORM 1975 SHALL BE COMPLETED.**

Table with 3 columns: DESCRIPTION, QUANTITY, UNITS. Lists items like Mobilization, Witness, Barricade, Channelizing Device, etc.

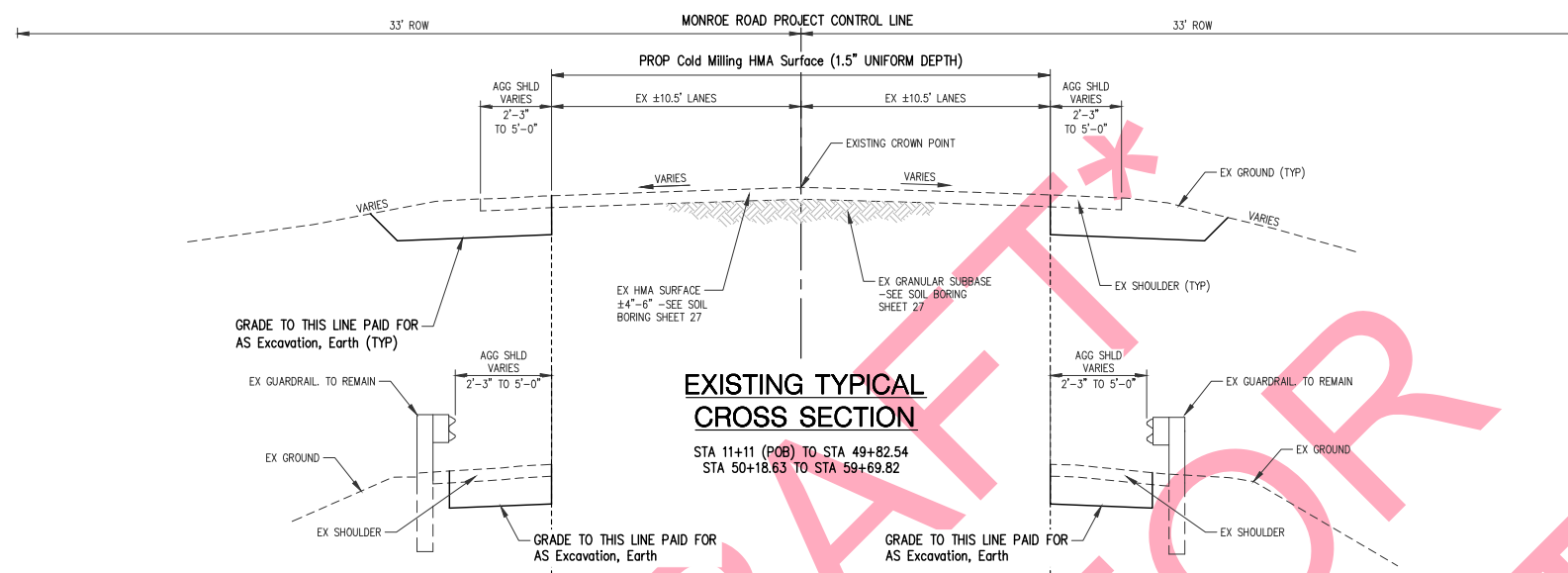
**SHEET QUANTITIES**



Know what's below. Call before you dig.

Table with 2 columns: DATE, DESCRIPTION. Under the heading PLAN SUBMITTALS AND CHANGES.

Vertical banner containing project information: ROWE PROFESSIONAL SERVICES COMPANY, MIDLAND COUNTY ROAD COMMISSION MONROE ROAD REHABILITATION, MONROE ROAD REHABILITATION, and contact details.



**EXISTING TYPICAL CROSS SECTION**

STA 11+11 (POB) TO STA 49+82.54  
STA 50+18.63 TO STA 59+69.82

**EXISTING GUARDRAIL PARTIAL SECTION**

STA 48+58 TO STA 49+65.50  
STA 50+42 TO STA 52+62

**EXISTING GUARDRAIL PARTIAL SECTION**

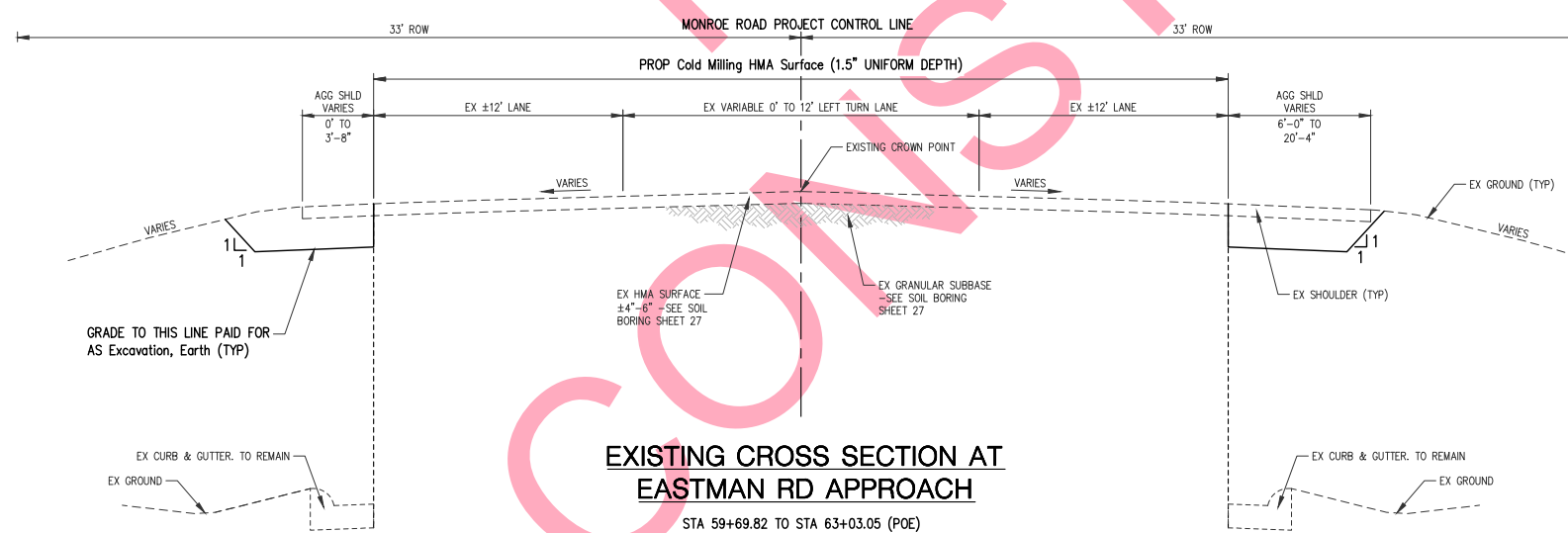
STA 47+37 TO STA 49+65.50  
STA 50+42 TO STA 51+40.50

**EXISTING CURB & GUTTER PARTIAL SECTION**

STA 49+65.50 TO STA 49+82.54  
STA 50+18.63 TO STA 50+42

**EXISTING CURB & GUTTER PARTIAL SECTION**

STA 49+65.50 TO STA 49+82.54  
STA 50+18.63 TO STA 50+42



**EXISTING CROSS SECTION AT EASTMAN RD APPROACH**

STA 59+69.82 TO STA 63+03.05 (POE)

**EXISTING CURB & GUTTER PARTIAL SECTION**

STA 61+92.38 TO STA 63+03.05 (POE)

**EXISTING CURB & GUTTER PARTIAL SECTION**

STA 61+94.82 TO STA 63+03.05 (POE)



Know what's below.  
Call before you dig.

PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1" = 40'

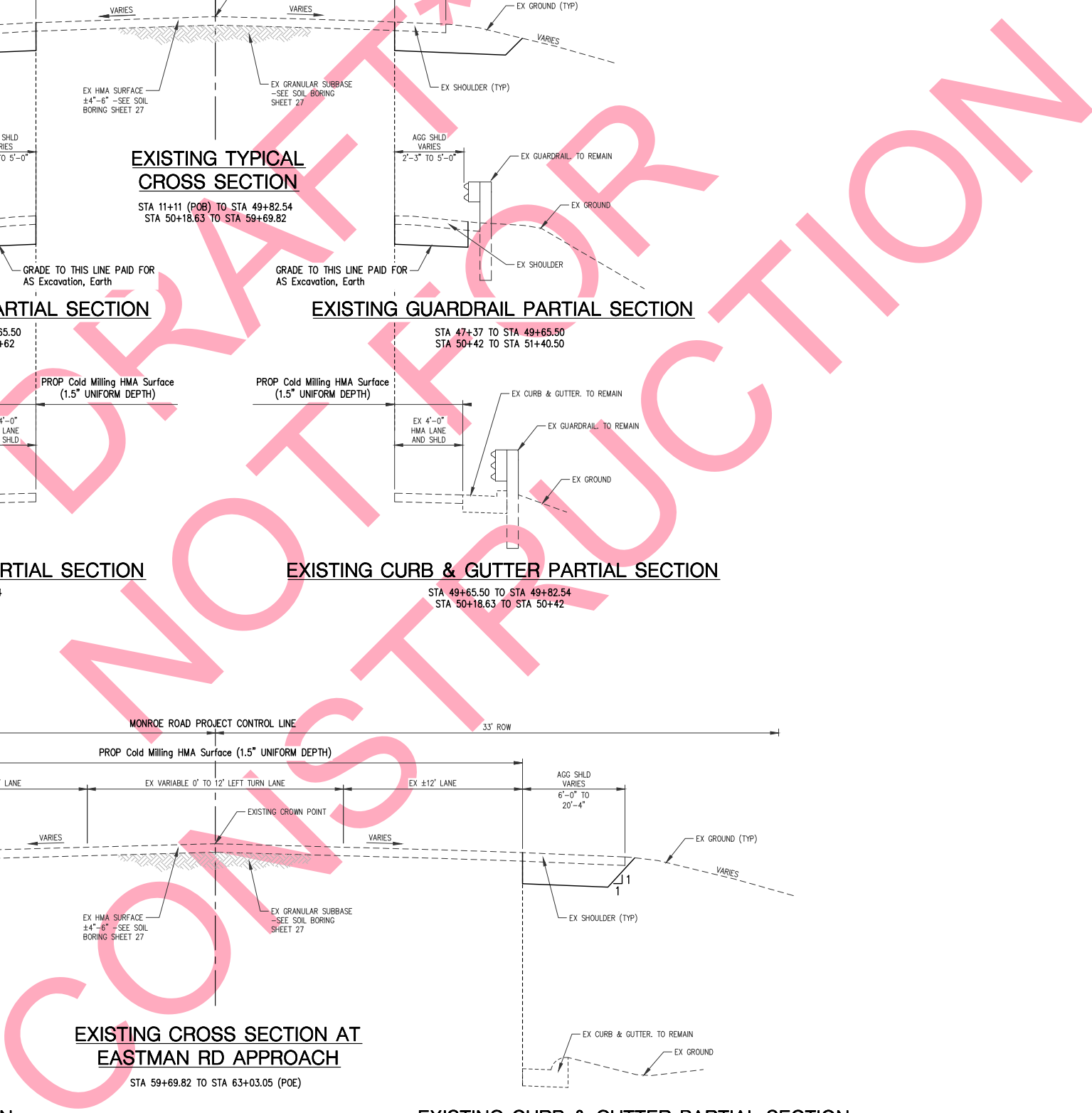
**ROWE PROFESSIONAL SERVICES COMPANY**

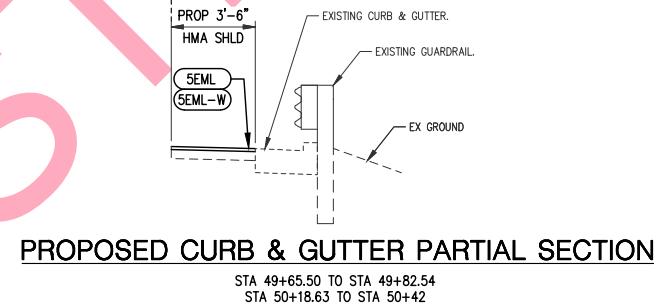
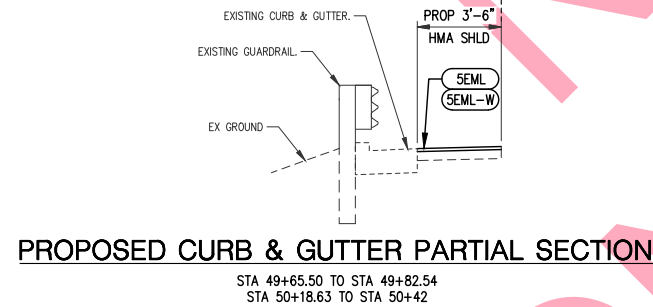
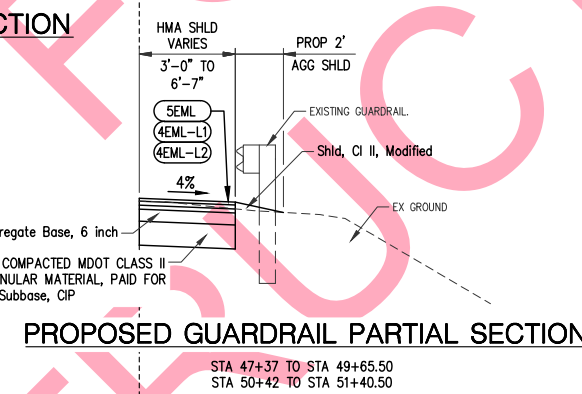
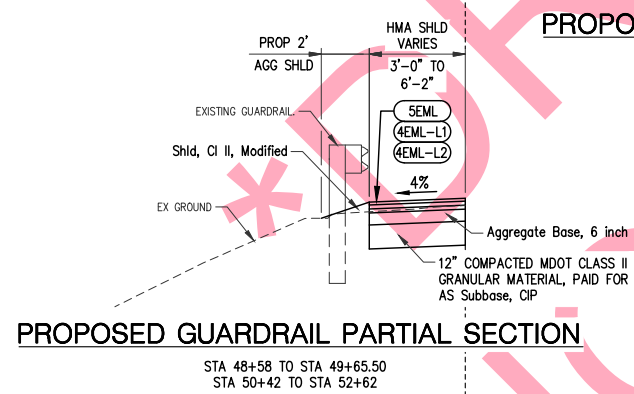
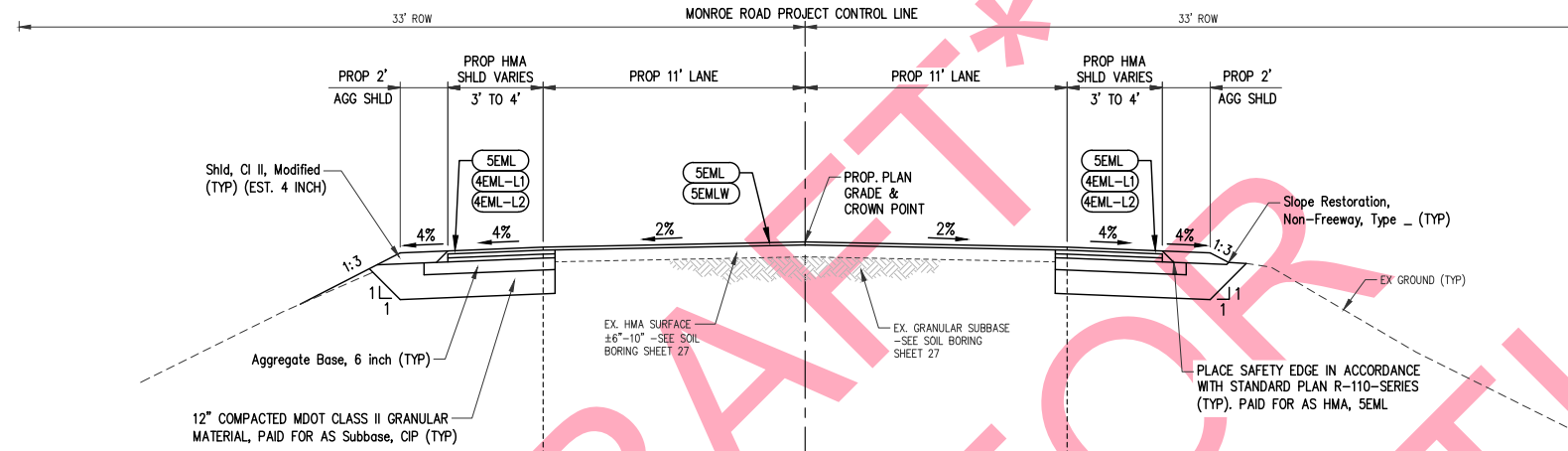
127 S. Main Street  
Mt. Pleasant, MI 48858  
O: (989) 772-2138  
www.rowepsc.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**

TYPICAL CROSS SECTIONS

SHT# 5 OF 27  
JOB No: 2400715





HMA APPLICATION CHART						
IDENT NO	ITEM	HMA PAVEMENT	RATE OF APPLICATION	ESTIMATED THICKNESS	PERFORMANCE GRADE	COMMENTS
5EML	HMA, 5EML	HMA, 5EML	165#/SYD	1.5"	64-28	TOP COURSE (AW=260 MINIMUM)
4EML-L1	HMA, 4EML	HMA, 4EML	220#/SYD	2.0"	64-28	LEVELING COURSE
4EML-L2	HMA, 4EML	HMA, 4EML	220#/SYD	2.0"	64-28	FIRST COURSE
5EMLW	HMA, 5EML	HMA, 5EML	VARIES	VARIES	64-28	WEDGING FOR PROFILE AND CROWN CORRECTION
HMA-A	HMA APPROACH	-	-	-	64-28	MATCH MAINLINE APPLICATION RATES AND MIXES FOR APPROACH RESURFACING AND WIDENING
HMA-D	HMA APPROACH	VARIES	385#/SYD	-	64-28	HMA, 5EML @ 165#/SYD AND HMA, 4EL @ 220#/SYD FOR DRIVEWAYS
-	HMA BOND COAT	-	0.05-0.15 GAL	-	-	NOT A PAY ITEM; FOR INFORMATION ONLY



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

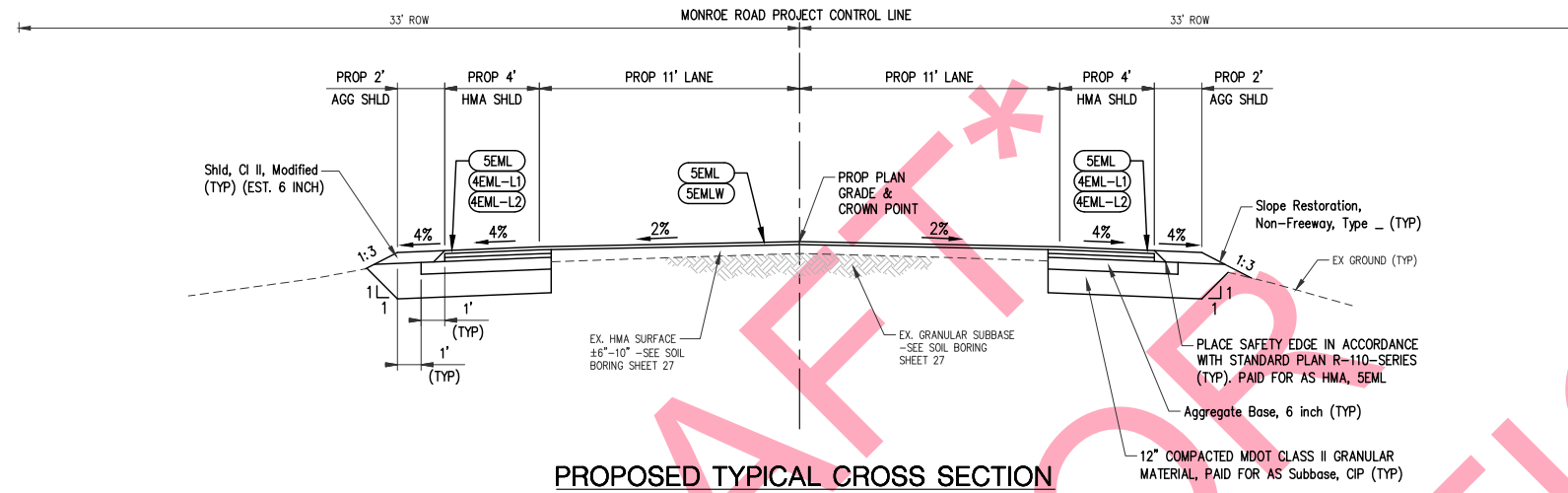
PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 40'

**ROWE PROFESSIONAL SERVICES COMPANY**  
 O: (989) 772-2138  
 www.rowepsc.com  
 127 S. Main Street  
 Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 TYPICAL CROSS SECTIONS

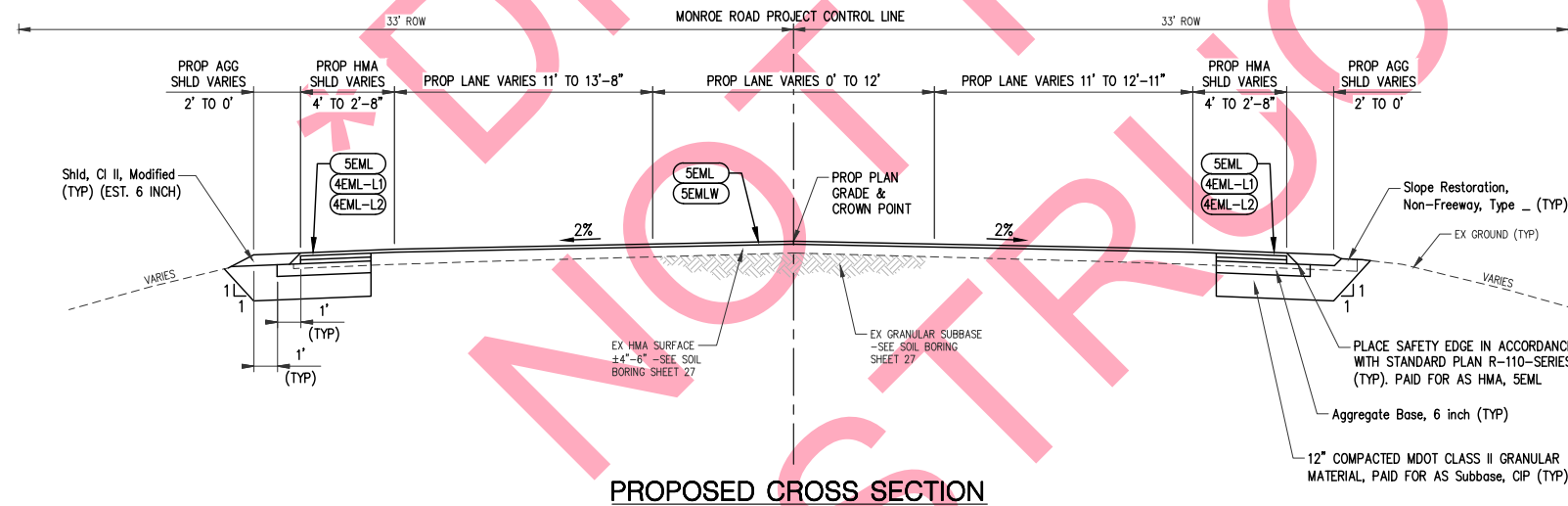
REV:   
 SHT# 6 OF 27  
 JOB No: 2400715

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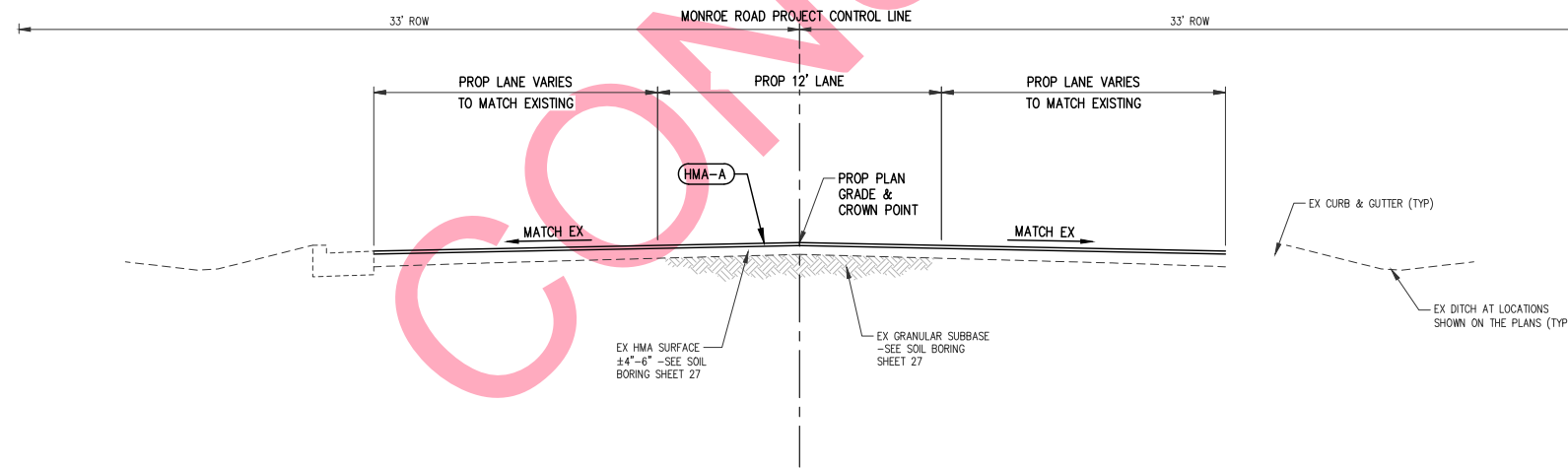
**PROPOSED TYPICAL CROSS SECTION**

STA 11+11 (POB) TO STA 47+00  
STA 52+75 TO STA 59+69.82



**PROPOSED CROSS SECTION**

STA 59+69.82 TO STA 61+94.82



**PROPOSED CROSS SECTION**

STA 61+94.82 TO STA 63+03.05 (POE)



Know what's below.  
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PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV:

SHT# 7 OF 27  
JOB No: 2400715

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1" = 40'

**ROWE PROFESSIONAL SERVICES COMPANY**



127 S. Main Street  
Mt. Pleasant, MI 48858

O: (989) 772-2138  
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PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**

TYPICAL CROSS SECTIONS

10+85 8.8L TP 6

11+34 28.11' 12" METAL PIPE (CMP)  
REL/SALV 11+42 20.81' STOP SIGN

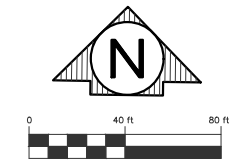
13+19 28.31' 12" METAL PIPE (CMP)

13+49 27.51' 12" METAL PIPE (CMP)  
REL 13+60 18.81' MAIL BOX

15+55 17.71' MAIL BOX  
REL

15+84 27.91' 12" METAL PIPE (CMP)  
REL/SALV 15+89 31.01' STOP SIGN

16+27 27.31' 12" METAL PIPE (CMP)



BM 106  
STA 11+34.11, 27.57' LT  
ELEV = 632.81  
SET SPIKE IN S. FACE OF LIGHT POLE, NE QUAD OF MONROE AND STURGEON

TP 6  
STA 10+85.27 9.75' LT  
SET IRON W/ "ROWE TRAV" CAP W. SIDE OF STURGEON & MONROE, EAST 4'  
EDGE OF ASPHALT OF STURGEON, SOUTH 9' CENTERLINE OF MONROE EXTENDED

AP 801  
STA 10+00.00, 0.00' LT  
POINT OF BEGINNING

AP 802  
STA 12+28.17, 0.00' LT  
POINT OF INTERSECTION

AP 803  
STA 13+26.49, 0.00' LT  
POINT OF INTERSECTION

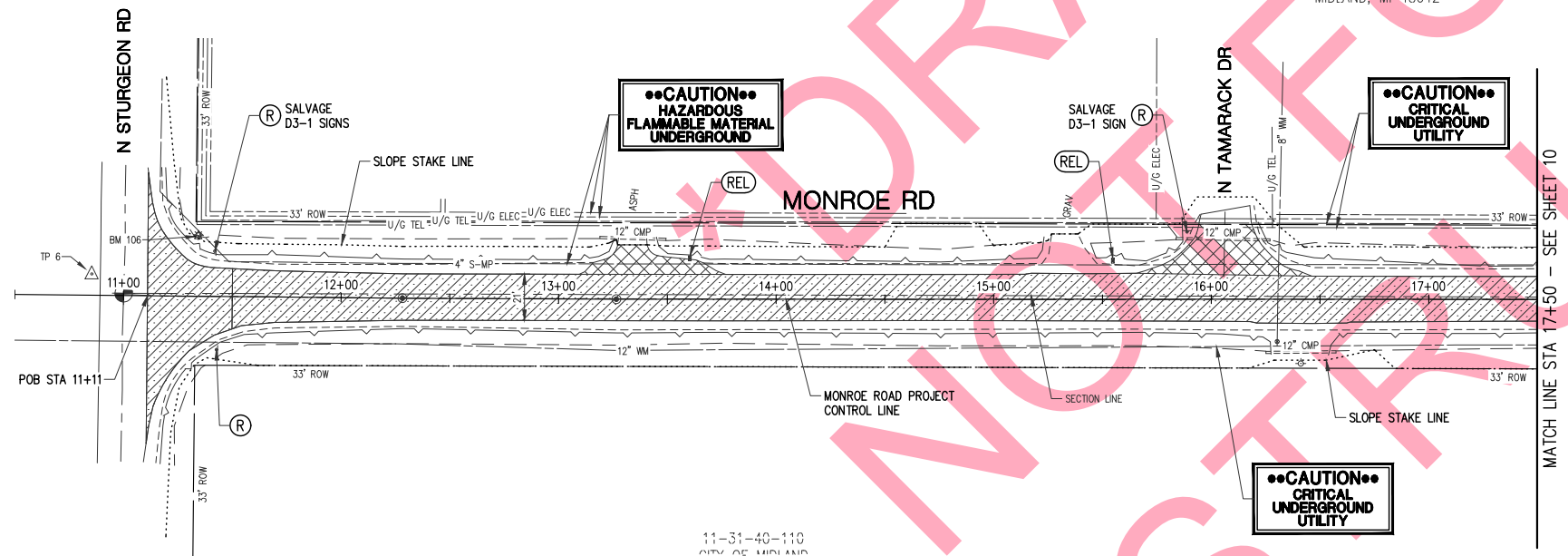
SGOR 201  
STA 11+00.07, 1.06' LT  
NW CORNER, SECTION 29, T15N-R2E, LARKIN TOWNSHIP, MIDLAND COUNTY,  
MICHIGAN, FOUND REMON. IN MON. BOX

090-750-500-081-00  
HADDIX, LEE O & SUSAN HW  
2509 E MONROE RD  
MIDLAND, MI 48642

090-750-500-130-00  
HENDERSON, JAMES  
2541 E MONROE RD  
MIDLAND, MI 48642

090-750-500-140-00  
SHUMAN, JONATHAN & KARLA  
2514 N TAMARACK DR  
MIDLAND, MI 48642

11-31-40-110  
CITY OF MIDLAND  
3510 AIRPORT RD  
MIDLAND, MI 48642



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Cold Milling HMA Surface	1655	Syd
HMA Surface, Rem	164	Syd
Sign, Type III, Rem	3	Ea
Sign, Type III, Rem, Salv	2	Ea
Ground Mtd Sign Support, Rem	3	Ea



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV: _____  
SHT# 8 OF 27  
JOB No: 2400715

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1" = 40'

ROWE PROFESSIONAL SERVICES COMPANY

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Mt. Pleasant, MI 48858  
O: (989) 772-2138  
www.rowepsc.com

PREPARED FOR  
MIDLAND COUNTY ROAD COMMISSION  
MONROE ROAD REHABILITATION  
STA 11+11 (POB) TO STA 17+50  
REMOVAL SHEET

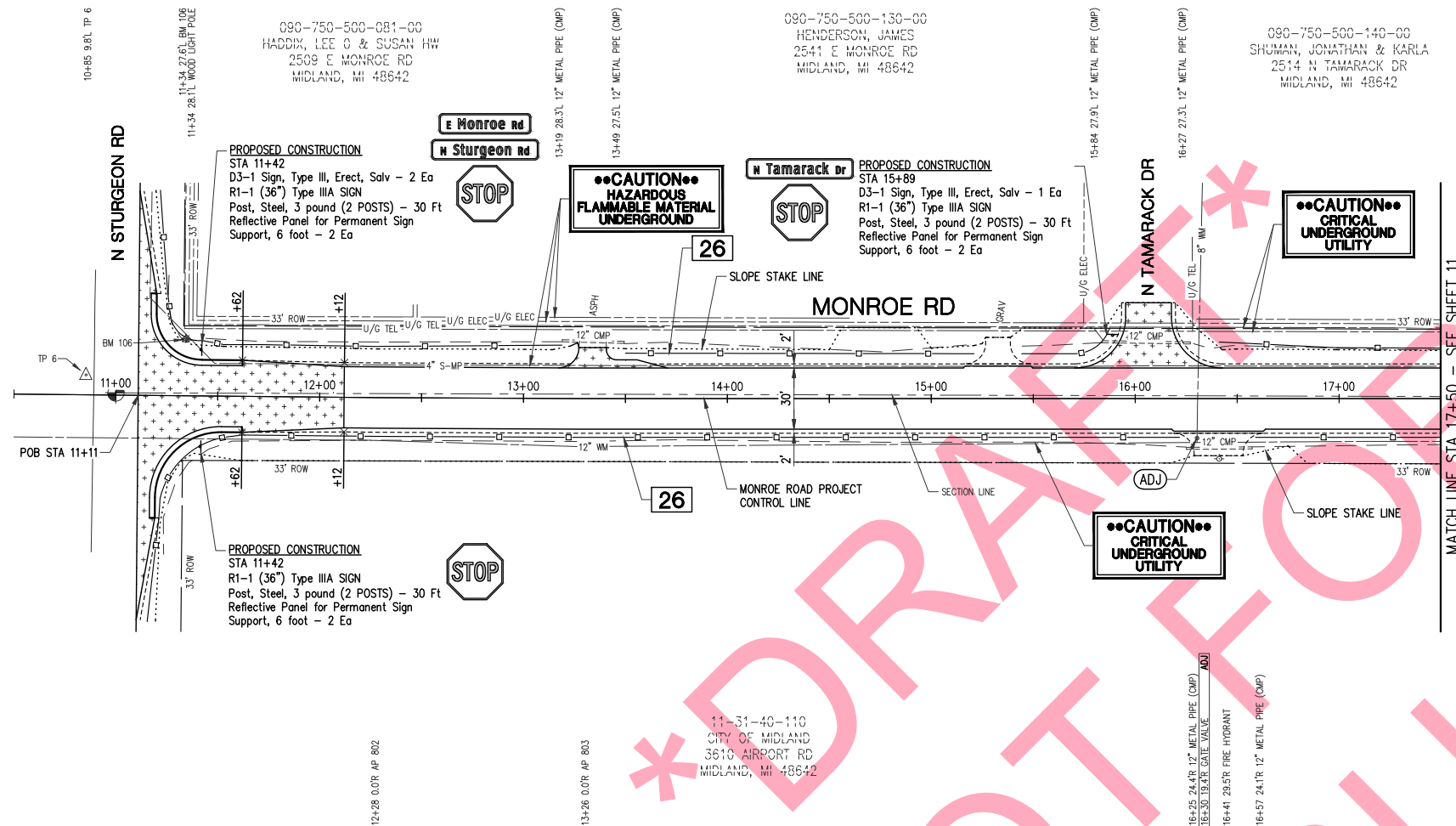
CONSTRUCTION

16+25 24.42' 12" METAL PIPE (CMP)  
16+30 19.42' GATE VALVE  
16+41 28.52' FIRE HYDRANT  
16+57 24.12' 12" METAL PIPE (CMP)

12+28 0.00' AP 802

13+28 0.00' AP 803

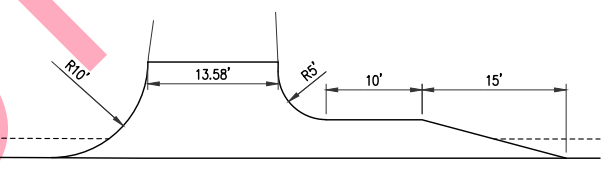




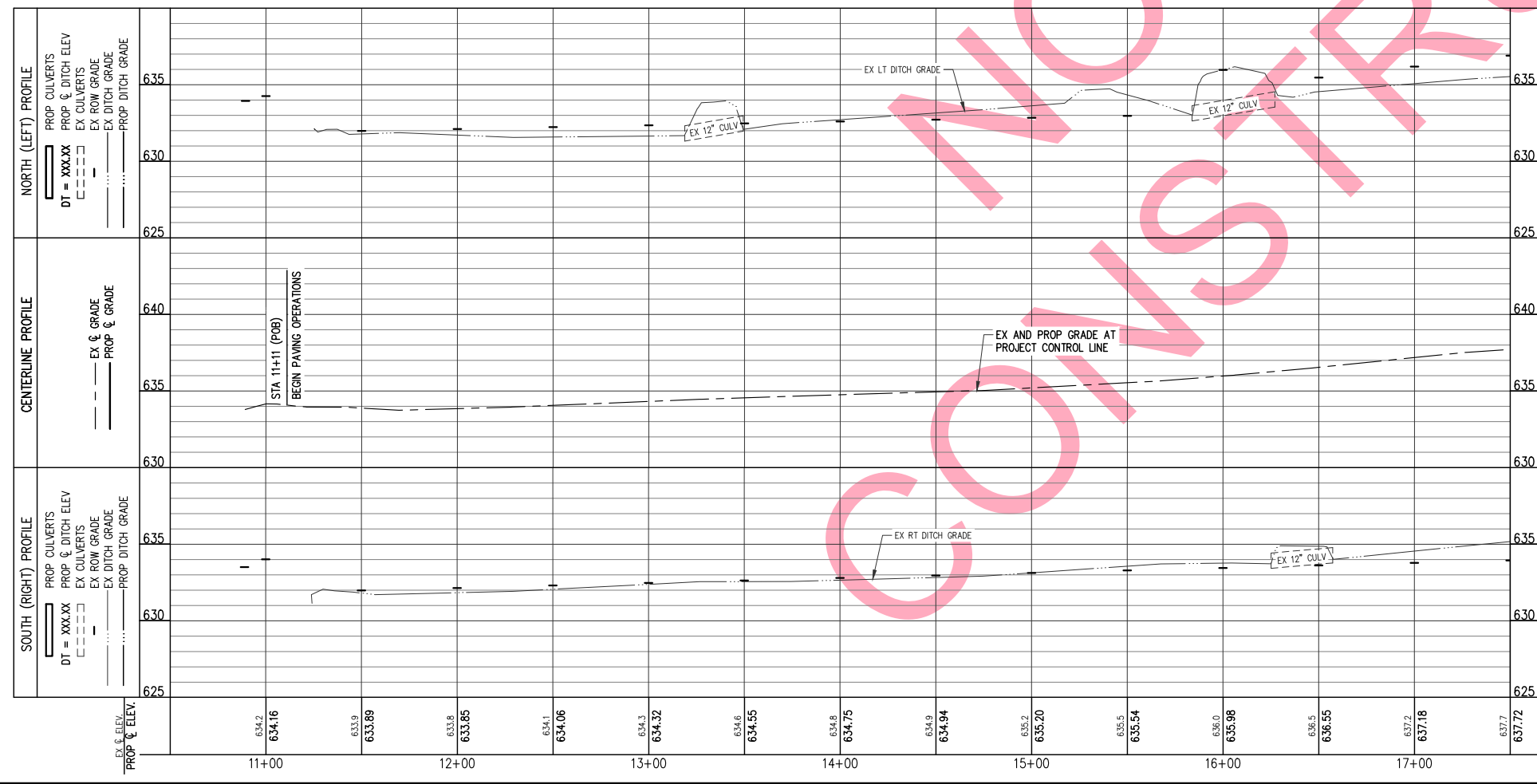
DRIVEWAY SCHEDULE

STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl II, 6 inch	HMA Approach	Driveway, Nonrein' Conc, 6 inch	Approach, Cl I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
13+34 LT	25	13.6	53.6	-	6	-	29
15+33 LT	30	12.1	32.1	23	-	-	-
16+41 RT	28	24.0	43.9	35	-	-	-

* FOR INFORMATION ONLY

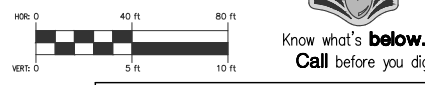


DRIVEWAY DETAIL STA 13+34 LT



SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1262	Ft
Subbase, CIP	380	Cyd
Aggregate Base, 6 inch	625	Syd
Aggregate Base, 9 inch	62	Syd
Approach, Cl I, 6 inch	29	Syd
Approach, Cl II, 6 inch	58	Syd
Shield, Cl II, Modified	50	Ton
Hand Patching	8	Ton
HMA Approach	123	Ton
HMA, 4EML	183	Ton
HMA, 5EML	171	Ton
Curb and Gutter, Conc, Det B2	126	Ft
Post, Mailbox	2	Ea
Post, Steel, 3 pound	60	Ft
Sign, Type III, Erect, Salv	4	Ea
Sign, Type IIIA	18	Sft
Reflective Panel for Permanent Sign Support, 6 foot	6	Ea
Slope Restoration, Non-Freeway, Type A	468	Syd
Slope Restoration, Non-Freeway, Type B	1089	Syd
Gate Box, Adj, Case 2	1	Ea



PLAN SUBMITTALS AND CHANGES

PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**		REV:
DATE	DESCRIPTION	

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 11+11 (POB) TO STA 17+50  
 CONSTRUCTION SHEET

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: HORIZ: 1"=40'; VERT: 1"=5'

ROWE PROFESSIONAL SERVICES COMPANY  
 127 S. Main Street  
 Mt. Pleasant, MI 48858  
 O: (989) 772-2138  
 www.rowepsc.com

SHT# 9 OF 27  
 JOB No: 2400715

R:\Projects\2400715\Draw\Construction\Drawings\SP-2400715-R01.dwg PLOTTED: 2/18/2025 10:36 AM

18+24 26.21, 12" METAL PIPE (CMP)

18+55 25.81, 12" METAL PIPE (CMP)  
18+60 17.41, MAIL BOX

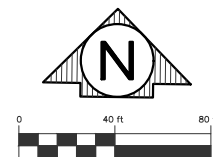
20+18 18.41, MISC. SIGN

20+87 27.51, ROUND CB  
20+98 24.48, U/G TEL. VALVE  
21+00 17.11, MAIL BOX

22+80 27.11, 12" METAL PIPE (CMP)

23+08 16.81, MAIL BOX  
23+12 25.71, ROUND CB

23+80 24.91, 12" METAL PIPE (CMP)  
23+82 17.81, MAIL BOX



BM 105  
STA 20+97.84, 31.77' LT  
ELEV = 638.98  
SET SPIKE IN SE SIDE OF POWER POLE, N. SIDE OF MONROE AT W. SIDE OF  
DRIVE #2601, S7E 15' MAILBOX #2601, EAST 17' EDGE OF ASPHALT DRIVE

TP 5  
STA 21+33.08 16.06' RT  
SET IRON W/ "ROWE TRAV" CAP, S. SIDE OF MONROE, 1000± E. OF STURGEON,  
NORTH 6' EDGE OF ASPHALT, WEST 12' CENTERLINE OF DRIVE TO HOUSE #2601

AP 804  
STA 23+13.47, 0.00' RT  
POINT OF INTERSECTION

AP 805  
STA 23+77.33, 0.00' LT  
POINT OF INTERSECTION

EX STRUCTURE  
INVENTORIES

3325  
RM = 637.71

3397  
RM = 638.59  
12" W = 637.28  
12" E = 637.28

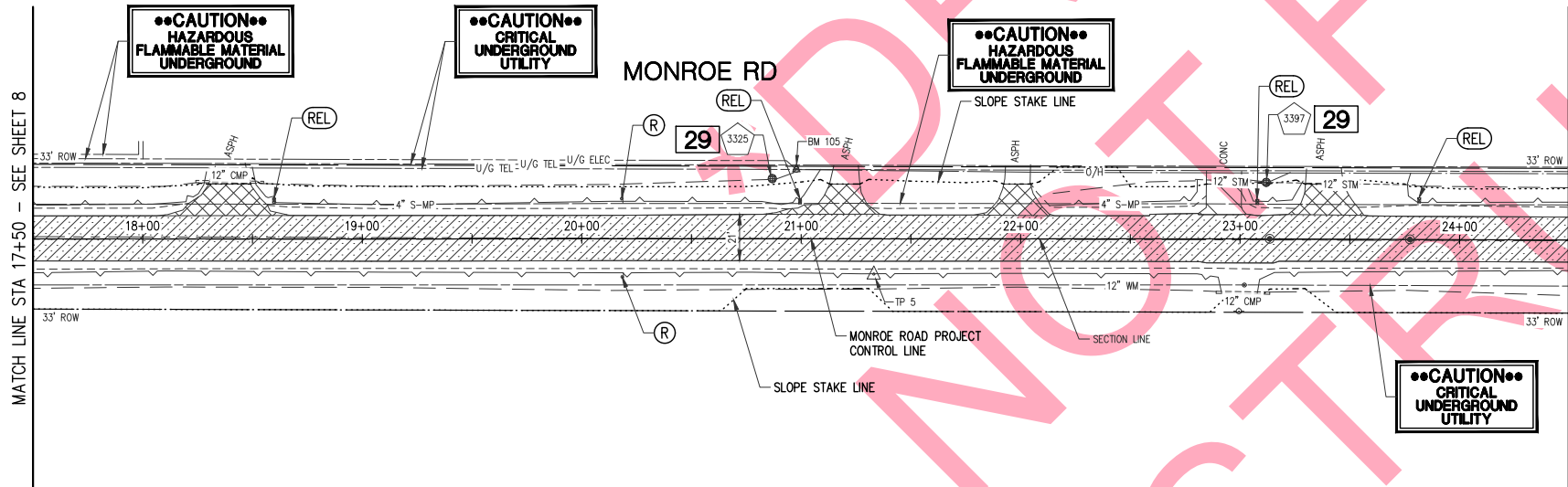
090-750-500-150-00  
STANFORD, BRANDIE  
2575 E MONROE RD  
MIDLAND, MI 48642

090-750-500-165-00  
KREMER, TIMOTHY G  
2601 E MONROE RD  
MIDLAND, MI 48642

090-750-500-180-00  
KREMER, TIMOTHY G  
2601 E MONROE RD  
MIDLAND, MI 48642

090-750-500-190-00  
FALES, MARK S ET UX  
2611 E MONROE RD  
MIDLAND, MI 48642

090-750-500-240-00  
SCHROEDER, GARY G & SHIRLEY J  
2623 E MONROE RD  
MIDLAND, MI 48642



DESCRIPTION	QUANTITY	UNITS
Pavt, Rem	26	Syd
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Cold Milling HMA Surface	1438	Syd
HMA Surface, Rem	157	Syd
Sign, Type III, Rem	2	Ea
Ground Mtd Sign Support, Rem	2	Ea



PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV: _____

SHT# 10 of 27

JOB No: 2400715

PREPARED FOR

**MIDLAND COUNTY ROAD COMMISSION**

**MONROE ROAD REHABILITATION**

STA 17+50 TO STA 24+50

REMOVAL SHEET

**ROWE PROFESSIONAL SERVICES COMPANY**

127 S. Main Street  
Mt. Pleasant, MI 48858

O: (989) 772-2138  
www.rowepsc.com

PLAN DATE: JANUARY 2025

PROJECT MGR: MJS

REVIEWER: TCL

SCALE: 1" = 40'

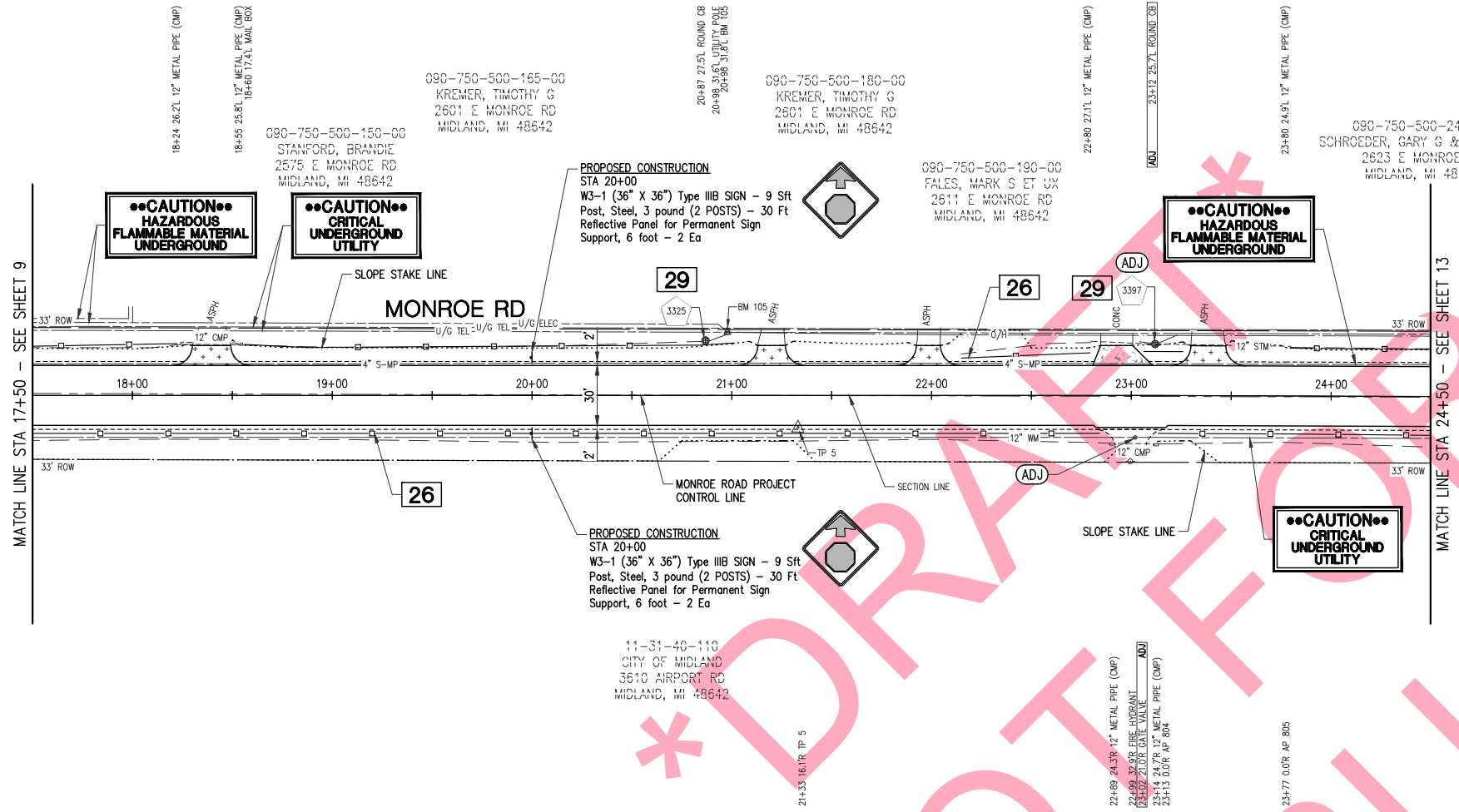
CONSTRUCTION NOT FOR CONSTRUCTION

20+18 17.41, MISC. SIGN

21+33 16.11, TP 5

22+89 24.31, 12" METAL PIPE (CMP)  
23+08 32.85, FIRE HYDRANT  
23+08 27.01, GATE VALVE  
23+14 24.71, 12" METAL PIPE (CMP)  
23+13 0.01, AP 804

23+77 0.01, AP 805



BM 105  
 STA 20+97.84, 31.77' LT  
 ELEV = 638.98  
 SET SPIKE IN SE SIDE OF POWER POLE, N. SIDE OF MONROE AT W. SIDE OF DRIVE #2601, STE 15' MAILBOX #2601, EAST 17' EDGE OF ASPHALT DRIVE

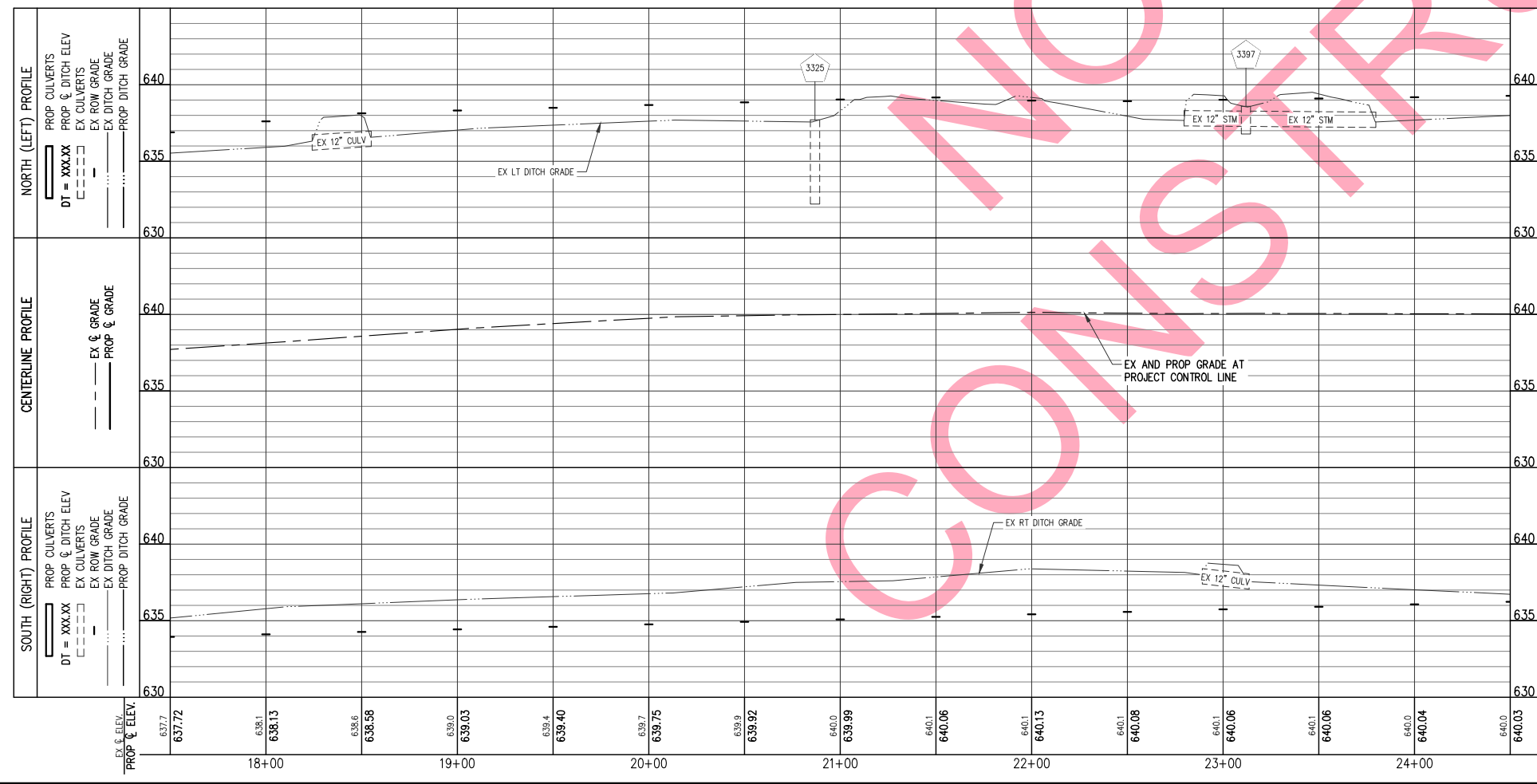
TP 5  
 STA 21+33.08 16.06' RT  
 SET IRON W/ "ROME TRAY" CAP, S. SIDE OF MONROE, 1000'± E. OF STURGEON, NORTH 6' EDGE OF ASPHALT, WEST 12' CENTERLINE OF DRIVE TO HOUSE #2601

AP 804  
 STA 23+13.47, 0.00' RT  
 POINT OF INTERSECTION

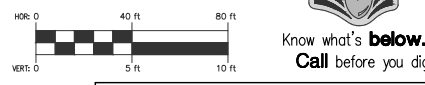
AP 805  
 STA 23+77.33, 0.00' LT  
 POINT OF INTERSECTION

STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl I, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, Cl I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
18+40 LT	25	19.3	39.3	-	6	-	27
21+20 LT	25	13.9	33.9	-	4	-	21
21+98 LT	25	12.2	32.2	-	4	-	19
22+93 LT	25	16.0	30.0	-	-	26	26
23+00 RT	28	15.0	35.0	24	-	-	-
23+38 LT	25	17.6	37.6	-	5	-	25

* FOR INFORMATION ONLY



DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1143	Ft
Subbase, CIP	459	Cyd
Aggregate Base, 6 inch	784	Syd
Approach, Cl I, 6 inch	118	Syd
Approach, Cl II, 6 inch	24	Syd
Shld, Cl II, Modified	56	Ton
Dr Structure Cover, Adj, Case 2	2	Ea
HMA Approach	19	Ton
HMA, 4EML	199	Ton
HMA, 5EML	222	Ton
Driveway, Nonreinf Conc, 6 inch	26	Syd
Post, Mailbox	4	Ea
Post, Steel, 3 pound	60	Ft
Sign, Type III B	18	Sft
Reflective Panel for Permanent Sign Support, 6 foot	4	Ea
Slope Restoration, Non-Freeway, Type A	535	Syd
Slope Restoration, Non-Freeway, Type B	1087	Syd
Gate Box, Adj, Case 2	1	Ea



PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**		REV:
DATE	DESCRIPTION	

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: HORIZ: 1"=40'; VERT: 1"=5'

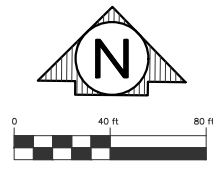
ROWE PROFESSIONAL SERVICES COMPANY  
 O: (989) 772-2138  
 www.rowepsc.com

127 S. Main Street  
 Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 17+50 TO STA 24+50  
 CONSTRUCTION SHEET

SHT# 11 of 27  
 JOB No: 2400715

- REL 24+69 24.9" 12" METAL PIPE (CMP)
- 24+99 25.5" 12" METAL PIPE (CMP)
- 25+56 27.1" 15" METAL PIPE (CMP)
- 25+87 29.8" 15" METAL PIPE (CMP)
- 25+88 29.8" 15" METAL PIPE (CMP)
- REL 26+35 16.1" METAL BOX
- 27+32 25.5" 12" PLASTIC PIPE
- REL 27+76 16.3" METAL BOX
- 28+39 26.3" 12" PLASTIC PIPE
- 29+12 24.9" 12" PLASTIC PIPE
- REL 29+24 15.5" METAL BOX
- 29+54 15.6" TP 4
- 29+62 31.8" 12" ROUND CB
- 29+78 24.1" 12" ROUND CB
- REL 29+87 16.0" METAL BOX
- 30+23 24.3" 12" PLASTIC PIPE
- REL 30+70 25.9" 12" METAL PIPE (CMP)
- REL 30+71 17.0" METAL BOX
- 31+00 25.3" 12" METAL PIPE (CMP)



BM 104  
 STA 29+62.44, 30.68' LT  
 ELEV = 640.09  
 FOUND MAG NAIL IN S. FACE OF SERVICE POLE, N. SIDE OF MONROE BETWEEN HOUSE #2683 & #2681, WEST 20' EDGE OF ASPHALT DRIVE, SOUTH 20' EDGE OF ASPHALT ROAD

TP 4  
 STA 29+54.03, 18.59' LT  
 SET IRON W/ "ROME TRAV" CAP N. SIDE OF MONROE BETWEEN HOUSE #2683 & #2681, SOUTH 7' EDGE OF ASPHALT, WEST 17' CENTERLINE OF DRIVE TO HOUSE #2681

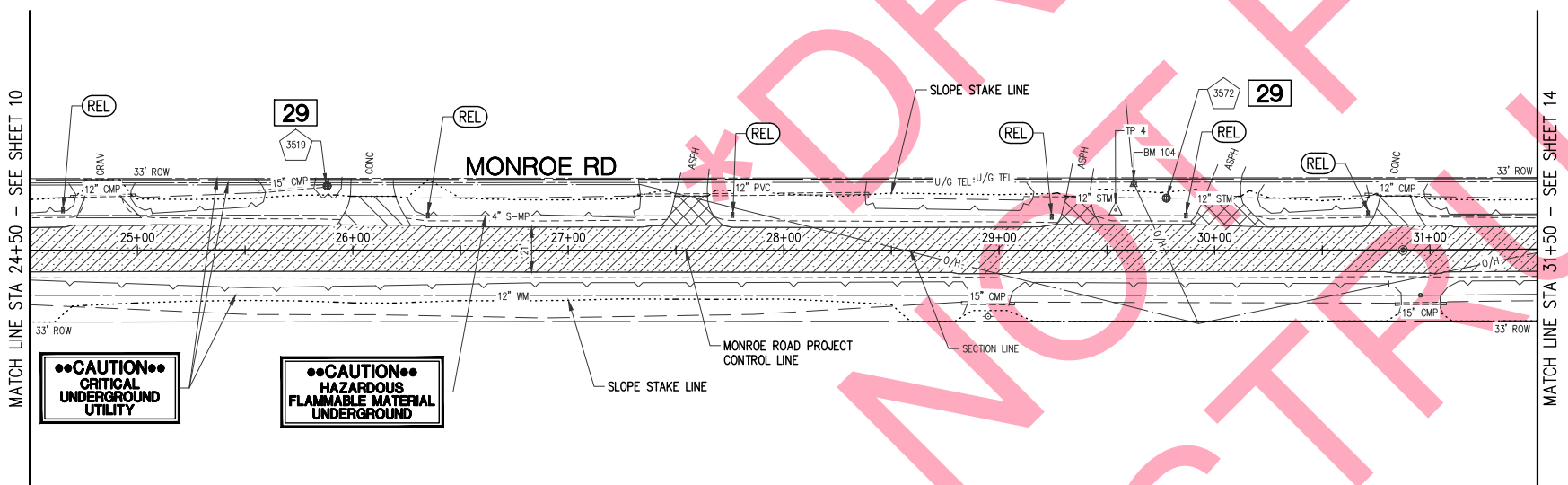
AP 806  
 STA 30+87.43, 0.00' RT  
 POINT OF INTERSECTION

EX STRUCTURE INVENTORIES

3519  
 RIM = 637.28

3572  
 RIM = 639.33  
 12" W = 636.75  
 12" E = 636.75

- 090-750-500-250-00  
 PITT REVOCABLE TRUST  
 2633 E MONROE RD  
 MIDLAND, MI 48642
- 090-750-500-255-00  
 CUSTERHOUT, JAY & MELISSA  
 2640 N TAMARACK DR  
 MIDLAND, MI 48642
- 090-750-500-263-00  
 KILBRIDE, LAURA R  
 2647 E MONROE RD  
 MIDLAND, MI 48642
- 090-750-500-272-00  
 HEBERT, CHRISTOPHER & BARBARA  
 2669 E MONROE RD  
 MIDLAND, MI 48642
- 090-750-500-280-00  
 WATERS, PAUL W ET UK  
 2681 E MONROE RD  
 MIDLAND, MI 48642
- 090-750-500-290-00  
 WRIGHT, LARRY D & PAMELA J  
 2683 E MONROE RD  
 MIDLAND, MI 48642
- 090-750-500-300-00  
 LEBEAU, BERNIE  
 2701 E MONROE RD  
 MIDLAND, MI 48642



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Pavt, Rem	69	Syd
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Cold Milling HMA Surface	1655	Syd
HMA Surface, Rem	88	Syd

**CAUTION**  
 CRITICAL UNDERGROUND UTILITY

**CAUTION**  
 HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

11-31-40-110  
 CITY OF MIDLAND  
 3510 AIRPORT RD  
 MIDLAND, MI 48642

- 28+83 24.5" 15" METAL PIPE (CMP)
- 28+95 30.7" FIRE HYDRANT
- 29+07 24.8" 15" METAL PIPE (CMP)
- 30+84 25.0" 15" METAL PIPE (CMP)
- 30+87 30.9" AP 806
- 30+95 20.9" GATE VALVE
- 31+07 24.9" 15" METAL PIPE (CMP)



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 40'

**ROWE PROFESSIONAL SERVICES COMPANY**

127 S. Main Street  
 Mt. Pleasant, MI 48858  
 O: (989) 772-2138  
 www.rowepsc.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 24+50 TO STA 31+50  
 REMOVAL SHEET

SHT# 12 OF 27  
 JOB No: 2400715

DRAFT FOR CONSTRUCTION

090-750-500-250-00  
PIT REVOCABLE TRUST  
2633 E MONROE RD  
MIDLAND, MI 48642

24+69 24.91' 12" METAL PIPE (CMP)

24+99 25.51' 12" METAL PIPE (CMP)

25+56 27.11' 15" METAL PIPE (CMP)

25+87 29.81' 15" METAL PIPE (CMP)

25+88 29.91' ROUND CB

090-750-500-263-00  
KILBRIDE, LAURA R  
2647 E MONROE RD  
MIDLAND, MI 48642

090-750-500-272-00  
HEBERT, CHRISTOPHER & BARBARA  
2669 E MONROE RD  
MIDLAND, MI 48642

090-750-500-280-00  
WATERS, PAUL M ET UX  
2681 E MONROE RD  
MIDLAND, MI 48642

29+54 18.61' TP 4  
29+62 21.21' 12" METAL PIPE (CMP)

090-750-500-290-00  
WRIGHT, LARRY D & PAMELA J  
2883 E MONROE RD  
MIDLAND, MI 48642

29+78 24.31' 12" PLASTIC PIPE

30+70 25.91' 12" METAL PIPE (CMP)

31+00 25.31' 12" METAL PIPE (CMP)

090-750-500-300-00  
LEBEAU, BERNIE  
2701 E MONROE RD  
MIDLAND, MI 48642

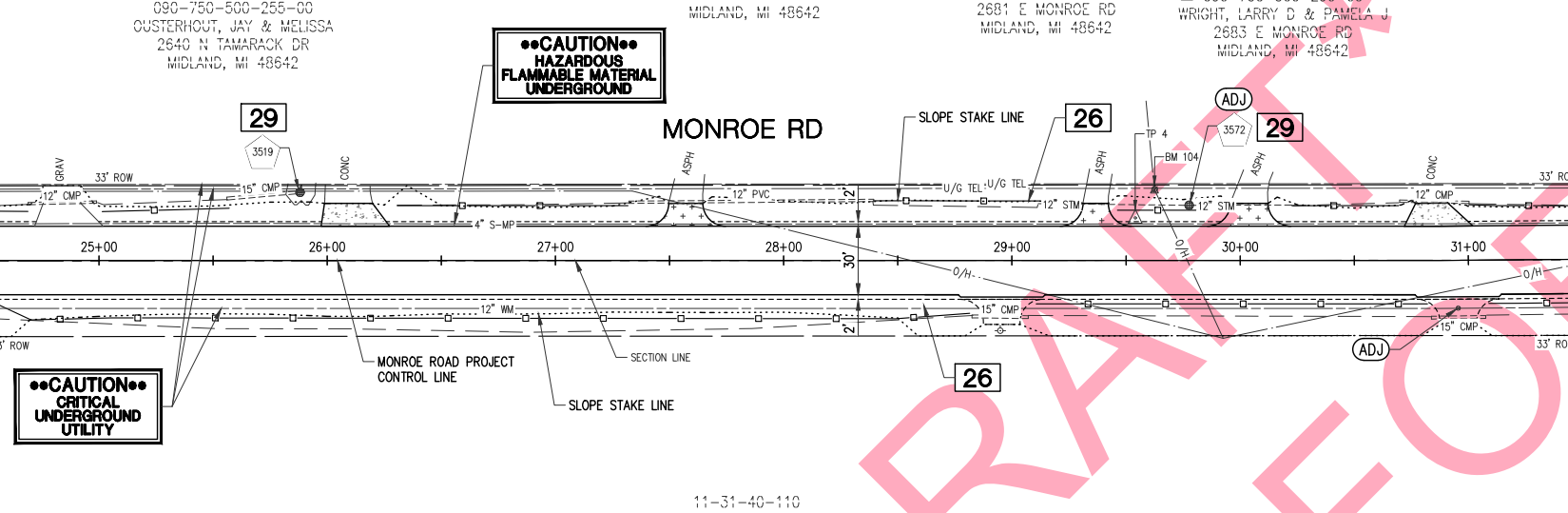


BM 104  
STA 29+62.44, 30.68' LT  
ELEV = 640.09  
FOUND MAG NAIL IN S. FACE OF SERVICE POLE, N. SIDE OF MONROE  
BETWEEN HOUSE #2683 & #2681, WEST 20' EDGE OF ASPHALT DRIVE,  
SOUTH 20' EDGE OF ASPHALT ROAD

TP 4  
STA 29+54.03, 18.59' LT  
SET IRON W/ "ROME TRAY" CAP N. SIDE OF MONROE BETWEEN HOUSE  
#2683 & #2681, SOUTH 7' EDGE OF ASPHALT, WEST 17' CENTERLINE OF  
DRIVE TO HOUSE #2681

AP 806  
STA 30+87.43, 0.00' RT  
POINT OF INTERSECTION

MATCH LINE STA 24+50 - SEE SHEET 11



MATCH LINE STA 31+50 - SEE SHEET 15

STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl I, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, Cl I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
24+84 LT	32.7	16.5	30.0	-	-	40	40
26+09 LT	25	21.1	30.0	-	-	29	29
27+57 LT	25	15.0	35.0	-	5	-	22
28+96 RT	28	16.0	36.0	25	-	-	-
29+37 LT	25	11.1	31.1	-	4	-	17
30+04 LT	25	16.7	36.7	-	5	-	24
30+84 LT	25	14.1	30.0	-	-	25	25
30+95 RT	28	16.0	35.9	25	-	-	-

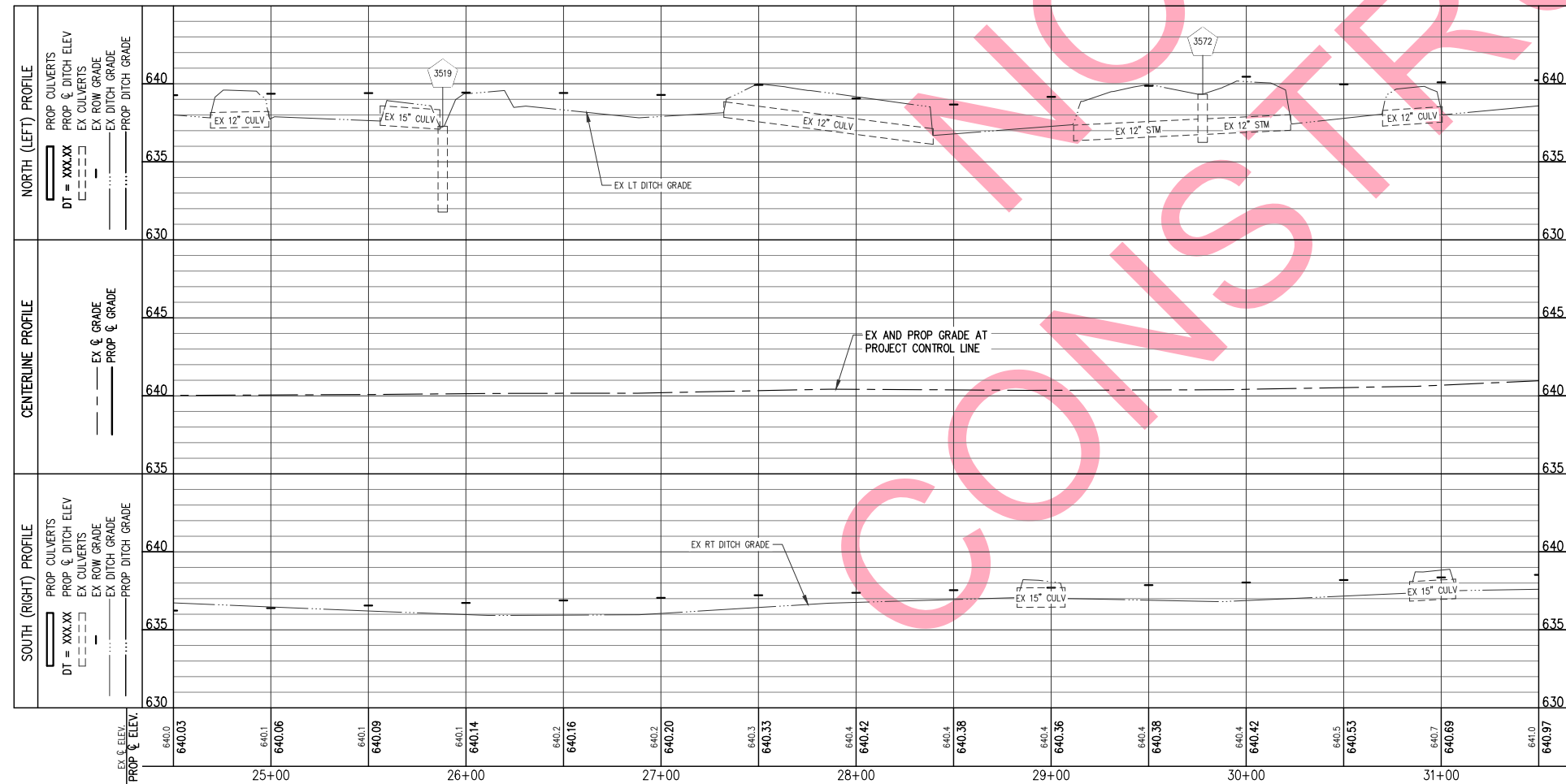
* FOR INFORMATION ONLY

CAUTION  
CRITICAL UNDERGROUND UTILITY

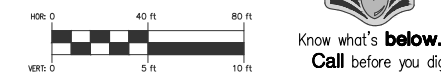
CAUTION  
HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

11-31-40-110  
CITY OF MIDLAND  
3610 AIRPORT RD  
MIDLAND, MI 48642

DRAFT FOR COMMENTS



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1031	Ft
Subbase, CIP	456	Cyd
Aggregate Base, 6 inch	796	Syd
Approach, Cl I, 6 inch	157	Syd
Approach, Cl II, 6 inch	50	Syd
Shld, Cl II, Modified	53	Ton
Dr Structure Cover, Adj. Case 2	2	Ea
HMA Approach	14	Ton
HMA, 4EML	200	Ton
HMA, 5EML	223	Ton
Driveway, Nonreinf Conc, 6 inch	94	Syd
Post, Mailbox	6	Ea
Slope Restoration, Non-Freeway, Type A	250	Syd
Slope Restoration, Non-Freeway, Type B	1008	Syd
Gate Box, Adj. Case 2	1	Ea



PLAN SUBMITTALS AND CHANGES		REV:
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**		
DATE	DESCRIPTION	

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1"=40'; VERT: 1"=5'

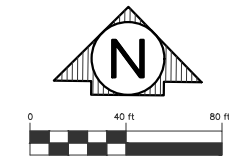
ROWE PROFESSIONAL SERVICES COMPANY  
O: (989) 772-2138  
www.rowepsc.com



PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 24+50 TO STA 31+50  
CONSTRUCTION SHEET

SHT# 13 OF 27  
JOB No: 2400715

ADJ-B/O 32+07 24.3" GAS MARKER POST  
 32+32 24.4" 12" METAL PIPE (CMP)  
 REL 32+79 21.6" MAIL BOX  
 32+87 23.5" 12" METAL PIPE (CMP)  
 REL 33+24 20.3" MAIL BOX  
 REL 35+20 21.4" MAIL BOX  
 REL 37+02 20.1" MAIL BOX



AP 807  
 STA 31+86.65, 0.00' LT  
 POINT OF INTERSECTION  
 AP 808  
 STA 36+52.27, 0.00' RT  
 POINT OF INTERSECTION  
 AP 809  
 STA 37+38.30, 0.00' RT  
 POINT OF INTERSECTION  
 SCDR 202  
 STA 37+28.63, 0.89' RT  
 NORTH 1/4 CORNER, SECTION 29, T15N-R2E, LARKIN TOWNSHIP,  
 MIDLAND COUNTY, MICHIGAN, FOUND REMON. IN MON. BOX

090-750-500-305-00  
 MONTANA, CHESTER & PAMELA TRUST  
 2715 E MONROE RD  
 MIDLAND, MI 48642

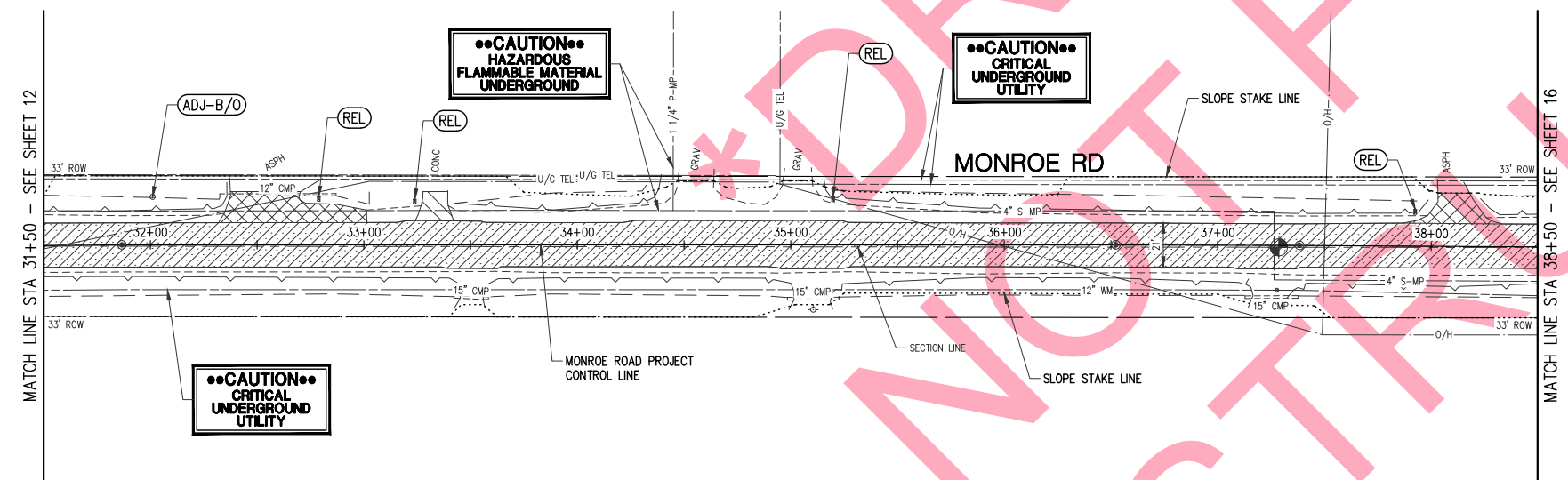
090-750-500-315-00  
 SANDAL, WILLIAM & CATHY TRUST  
 2725 E MONROE RD  
 MIDLAND, MI 48642

090-750-500-330-00  
 SOVA, MARWOOD R ET UX  
 2761 E MONROE RD  
 MIDLAND, MI 48642

090-020-400-010-00  
 SOVA, MARWOOD R  
 2761 E MONROE RD  
 MIDLAND, MI 48642

11-31-40-110  
 CITY OF MIDLAND  
 3610 AIRPORT RD  
 MIDLAND, MI 48642

31+87 0.0' AP 807  
 33+42 24.3" 15" METAL PIPE (CMP)  
 33+58 25.0" 15" METAL PIPE (CMP)  
 34+98 25.2" 15" METAL PIPE (CMP)  
 35+11 30.4" FIRE HYDRANT  
 35+23 25.2" 15" METAL PIPE (CMP)  
 36+52 0.0' AP 808  
 37+13 24.4" 15" METAL PIPE (CMP)  
 37+28 21.0" GATE VALVE  
 37+38 24.1" 15" METAL PIPE (CMP)  
 37+38 0.0' AP 809



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Pavt, Rem	21	Syd
Cold Milling HMA Surface	1630	Syd
HMA Surface, Rem	122	Syd



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 40'

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 127 S. Main Street  
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 www.roweps.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 31+50 TO STA 38+50  
 REMOVAL SHEET

REV: SHT# 14 of 27  
 JOB No: 2400715

DRAFT FOR CONSTRUCTION

AP 807  
STA 31+86.65, 0.00' LT  
POINT OF INTERSECTION

AP 808  
STA 36+52.27, 0.00' LT  
POINT OF INTERSECTION

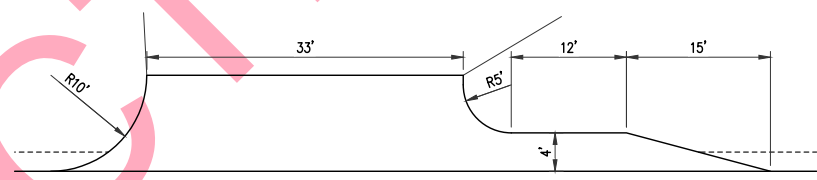
AP 809  
STA 37+38.30, 0.00' RT  
POINT OF INTERSECTION

SCOR 202  
STA 37+28.63, 0.89' RT  
NORTH 1/4 CORNER, SECTION 29, T15N-R2E, LARWIN TOWNSHIP,  
MIDLAND COUNTY, MICHIGAN, FOUND REMON. IN MON. BOX

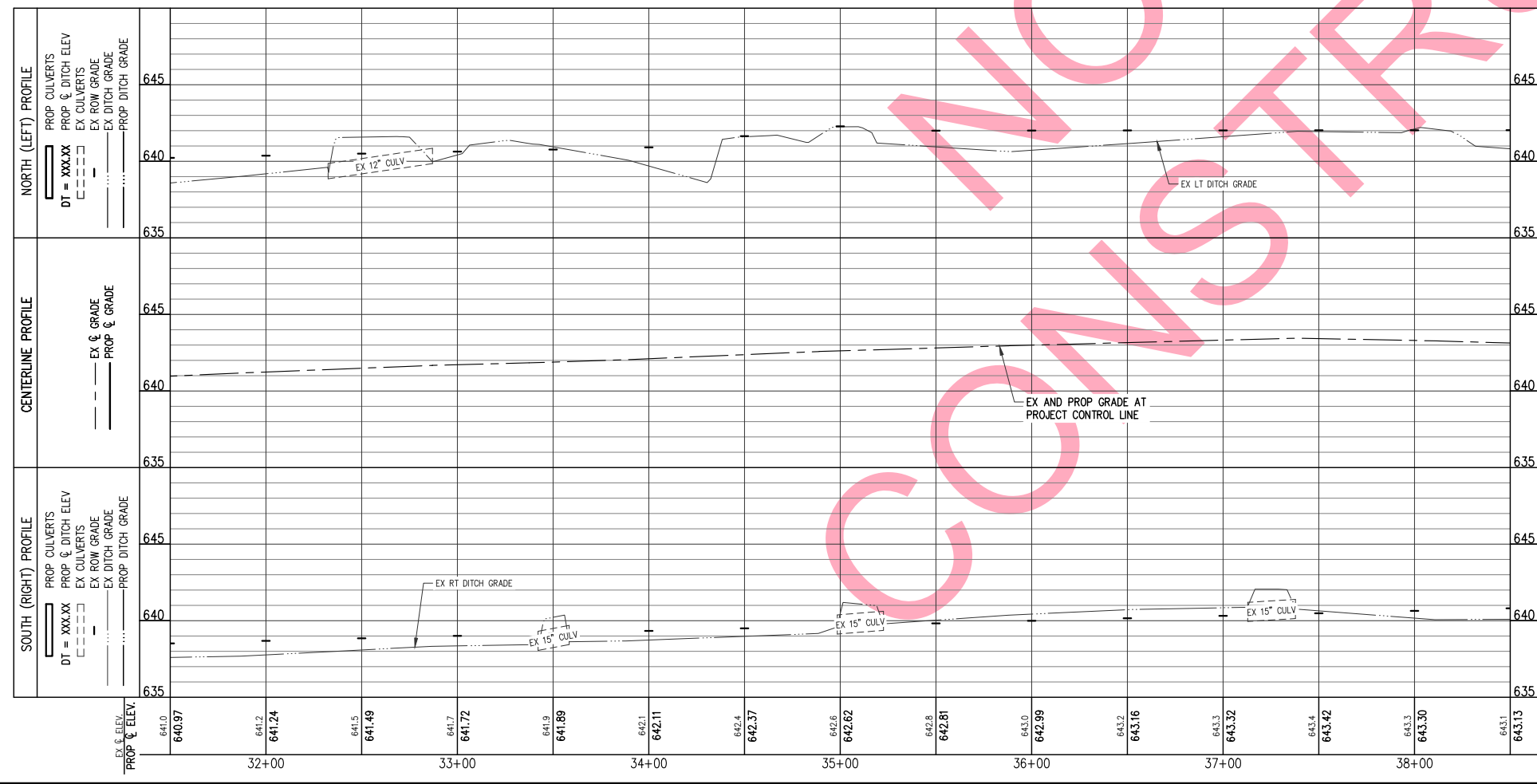
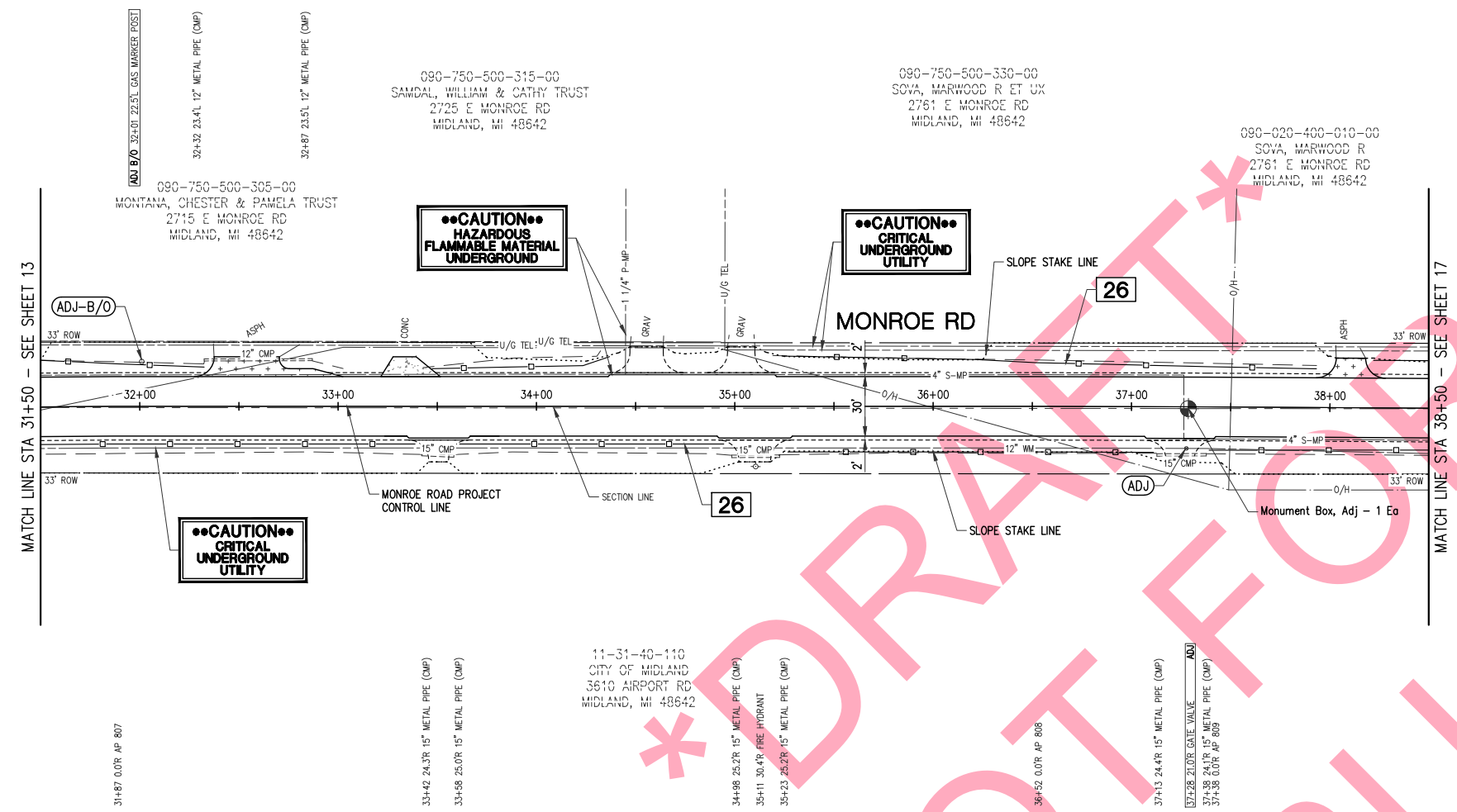


STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	DRIVEWAY SCHEDULE			
				Approach, Cl II, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, Cl I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
32+54 LT	25	32.9	74.9	-	10	-	51
33+34 LT	25	11.6	30.0	-	-	24	24
33+51 RT	28	10.0	30.0	17	-	-	-
34+58 LT	30	16.8	36.8	29	-	-	-
35+03 LT	30	13.8	33.8	25	-	-	-
35+10 RT	28	16.0	36.0	25	-	-	-
37+25 RT	28	14.0	34.0	22	-	-	-
38+10 LT	25	14.9	34.9	-	5	-	22

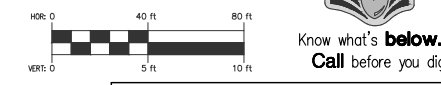
* FOR INFORMATION ONLY



DRIVEWAY DETAIL STA 32+54 LT



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1087	Ft
Subbase, CIP	463	Cyd
Aggregate Base, 6 inch	798	Syd
Approach, Cl I, 6 inch	97	Syd
Approach, Cl II, 6 inch	118	Syd
Shld, Cl II, Modified	52	Ton
HMA Approach	15	Ton
HMA, 4EML	202	Ton
HMA, 5EML	224	Ton
Driveway, Nonreinf Conc, 6 inch	24	Syd
Post, Mailbox	4	Ea
Slope Restoration, Non-Freeway, Type A	692	Syd
Slope Restoration, Non-Freeway, Type B	1024	Syd
Monument Box, Adj	1	Ea
Gate Box, Adj, Case 2	1	Ea



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: HORIZ: 1"=40'; VERT: 1"=5'

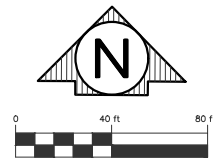
ROWE PROFESSIONAL SERVICES COMPANY  
O: (989) 772-2138  
www.roweps.com



PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
sta 31+50 to sta 38+50  
CONSTRUCTION SHEET

SHT# 15 of 27  
JOB No: 2400715

BM 103  
 STA 40+96.91, 30.29' RT  
 ELEV = 643.75  
 TOP SW FLANGE BOLT OF HYDRANT, S. SIDE OF MONROE, E. SIDE OF GRAVEL ENTRANCE  
 TO TRAIL HEAD AREA, NORTH 20' EDGE OF ASPHALT, WEST, 25' EDGE OF GRAVEL DRIVE  
  
 TP 3  
 STA 40+90.65, 21.59' RT  
 SET IRON W/ "ROWE TRAV" CAP S. SIDE OF MONROE, 2400± W. OF EASTMAN, NORTH  
 11' EDGE OF ASPHALT, S35E 10' HYDRANT  
  
 AP 810  
 STA 42+20.35, 0.00' RT  
 POINT OF INTERSECTION  
  
 AP 811  
 STA 43+16.32, 0.00' RT  
 POINT OF INTERSECTION



090-020-400-020-00  
 ATCHINSON, DEBORAH M  
 2833 E MONROE RD  
 MIDLAND, MI 48642

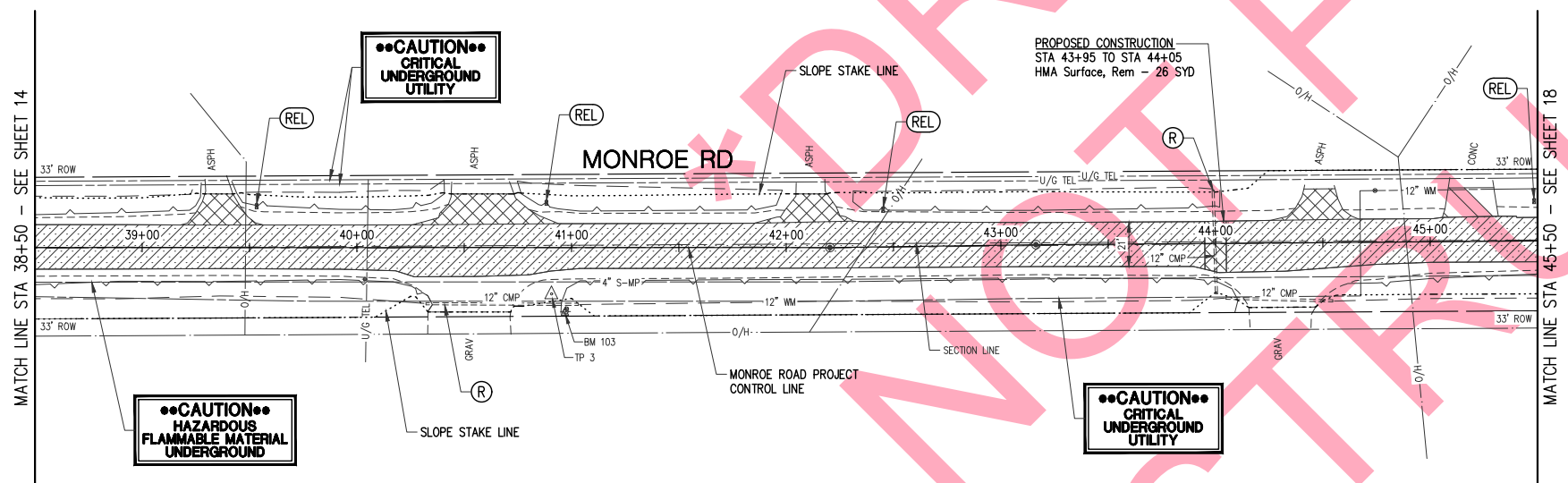
090-020-400-030-00  
 SOVA, ROBERT B & ANDREA J  
 2835 E MONROE RD  
 MIDLAND, MI 48642

090-020-400-080-00  
 SOVA, ROBERT B & ANDREA J  
 2837 E MONROE RD  
 MIDLAND, MI 48642

090-020-400-030-00  
 SOVA, ROBERT B & ANDREA J  
 2835 E MONROE RD  
 MIDLAND, MI 48642

090-020-400-086-00  
 LARKIN CHARTER TOWNSHIP  
 E MONROE RD  
 MIDLAND, MI 48642

090-020-400-040-00  
 DUBOIS, JOHN SR & SHARON TRUST  
 2863 E MONROE RD  
 MIDLAND, MI 48642



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	2	Ea
Pavt, Rem	36	Syd
Cold Milling HMA Surface	1640	Syd
HMA Surface, Rem	197	Syd

**CAUTION**  
 HAZARDOUS  
 FLAMMABLE MATERIAL  
 UNDERGROUND

**CAUTION**  
 CRITICAL  
 UNDERGROUND  
 UTILITY

**CAUTION**  
 CRITICAL  
 UNDERGROUND  
 UTILITY

DRAFT FOR CONSTRUCTION


11-31-40-110  
 CITY OF MIDLAND  
 3610 AIRPORT RD  
 MIDLAND, MI 48642



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV: _____  
 SHT# 16 of 27  
 JOB No: 2400715

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 40'

**ROWE PROFESSIONAL SERVICES COMPANY**  
  
 127 S. Main Street  
 Mt. Pleasant, MI 48858  
 O: (989) 772-2138  
 www.rowepsc.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 38+50 TO STA 45+50  
 REMOVAL SHEET



090-020-400-020-00  
ATCHINSON, DEBORAH M  
2833 E MONROE RD  
MIDLAND, MI 48642

39+53 19.21 MAIL BOX

090-020-400-030-00  
SOVA, ROBERT B & ANDREA J  
2835 E MONROE RD  
MIDLAND, MI 48642

40+88 20.81 MAIL BOX

090-020-400-080-00  
SOVA, ROBERT B & ANDREA J  
2837 E MONROE RD  
MIDLAND, MI 48642

090-020-400-030-00  
SOVA, ROBERT B & ANDREA J  
2835 E MONROE RD  
MIDLAND, MI 48642

090-020-400-040-00  
DUBOIS, JOHN SR & SHARON TRUST  
2863 E MONROE RD  
MIDLAND, MI 48642

090-020-400-086-00  
LARKIN CHARTER TOWNSHIP  
E MONROE RD  
MIDLAND, MI 48642

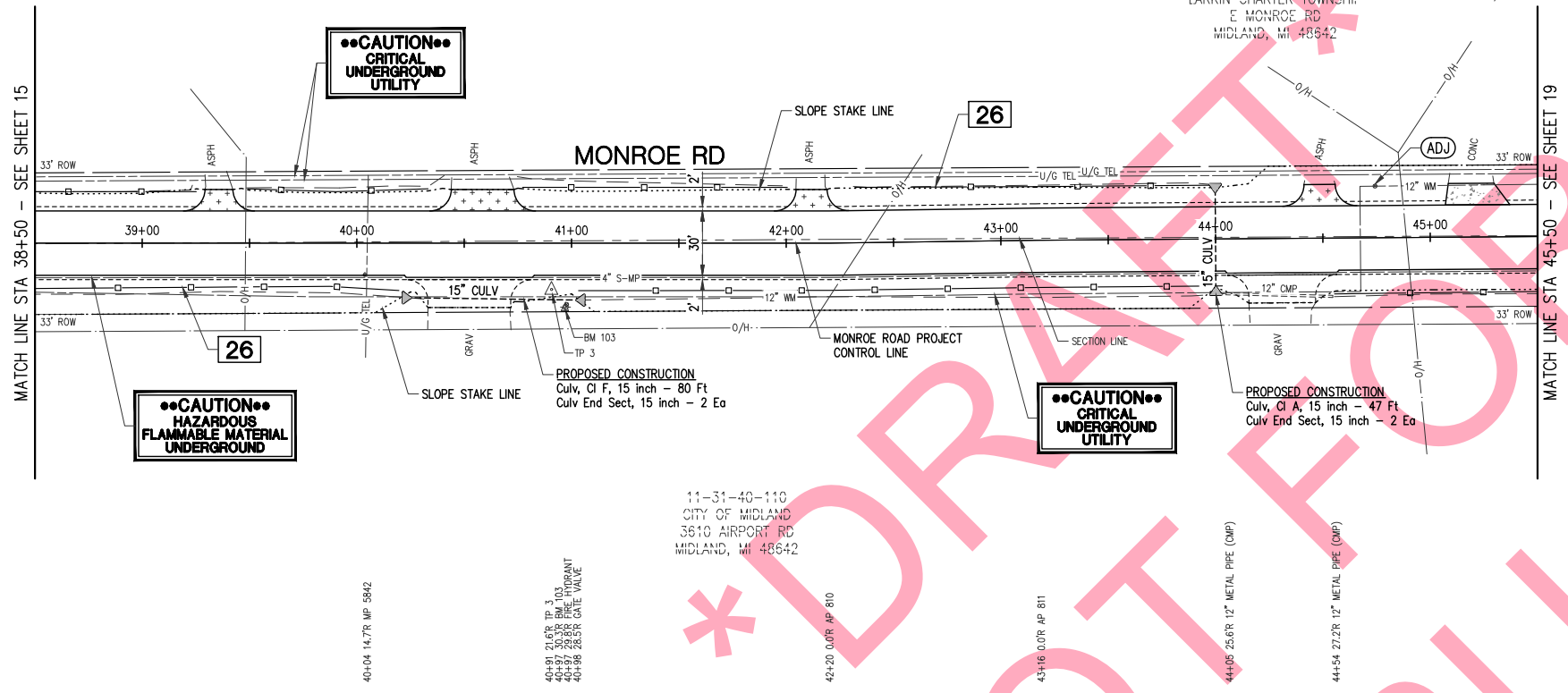
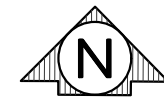
45+49 18.51 MAIL BOX

BM 103  
STA 40+96.91, 30.29' RT  
ELEV = 643.75  
TOP SW FLANGE BOLT OF HYDRANT, S. SIDE OF MONRE, E. SIDE  
OF GRAVEL ENTRANCE TO TRAIL HEAD AREA, NORTH 20' EDGE  
OF ASPHALT, WEST, 25' EDGE OF GRAVEL DRIVE

TP 3  
STA 40+90.65, 21.59' RT  
SET IRON W/ "ROME TRAY" CAP S. SIDE OF MONROE, 2400'± W.  
OF EASTMAN, NORTH 11' EDGE OF ASPHALT, 535E 10' HYDRANT

AP 810  
STA 42+20.35, 0.00' RT  
POINT OF INTERSECTION

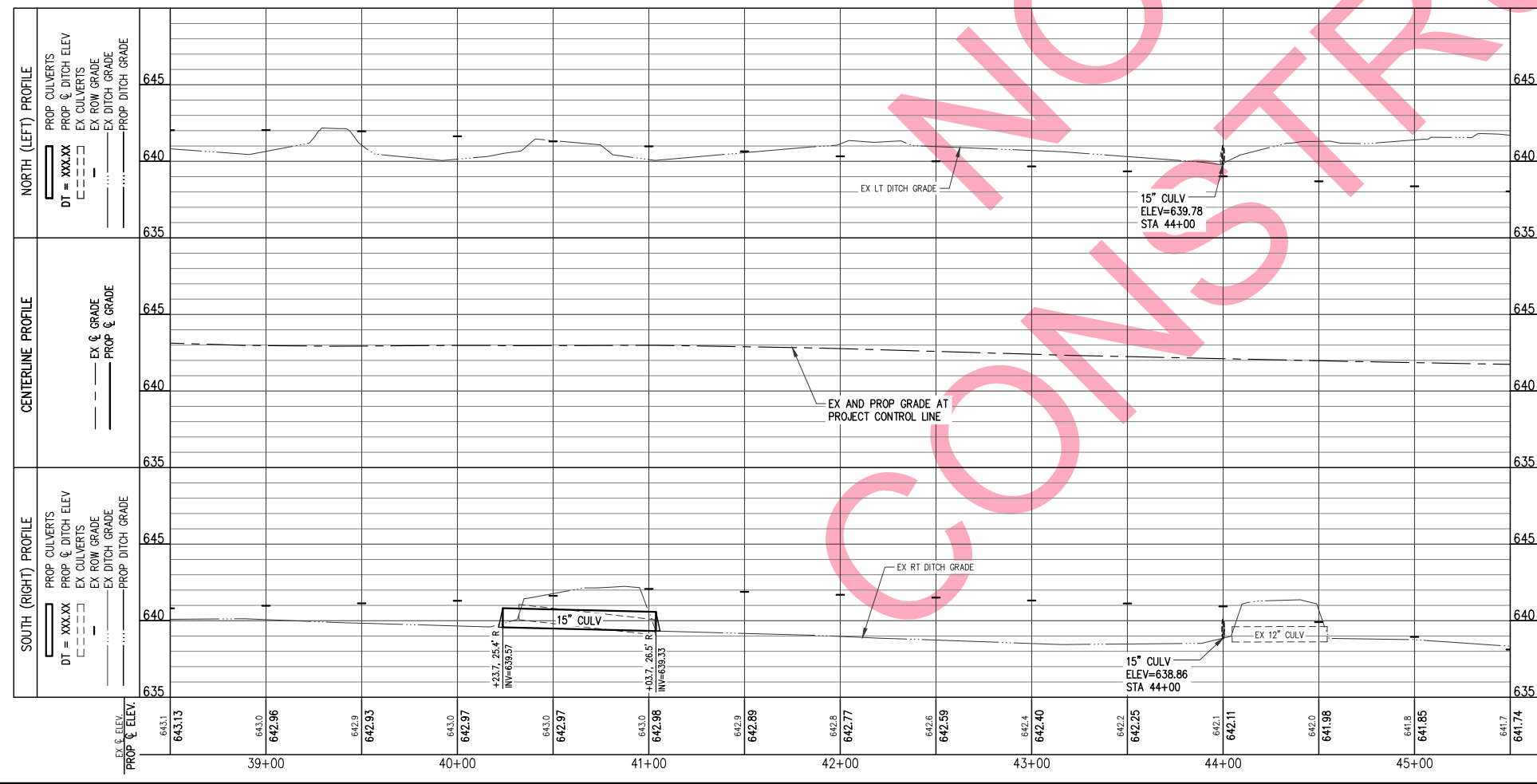
AP 811  
STA 43+16.32, 0.00' RT  
POINT OF INTERSECTION



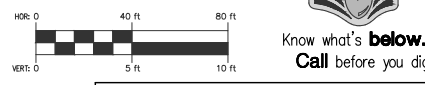
STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, CI II, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, CI I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
39+36 LT	25	13.1	33.1	-	4	-	20
40+52 RT	30	38.5	58.5	61	-	-	-
40+59 LT	25	29.3	49.3	-	8	-	38
42+12 LT	25	14.5	34.2	-	5	-	21
44+31 RT	30	31.1	51.1	50	-	-	-
44+49 LT	25	14.6	34.6	-	5	-	21
45+19 LT	25	21.2	30.0	-	-	29	29

* FOR INFORMATION ONLY

11-31-40-110  
CITY OF MIDLAND  
3610 AIRPORT RD  
MIDLAND, MI 48642



DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1022	Ft
Subbase, CIP	430	Cyd
Aggregate Base, 6 inch	742	Syd
Approach, CI I, 6 inch	129	Syd
Approach, CI II, 6 inch	111	Syd
Shld, CI II, Modified	49	Ton
Culv End Sect, 15 inch	4	Ea
Culv, CI A, 15 inch	47	Ft
Culv, CI F, 15 inch	80	Ft
HMA Approach	22	Ton
HMA, 4EML	200	Ton
HMA, 5EML	223	Ton
Driveway, Nonreinf Conc, 6 inch	29	Syd
Post, Mailbox	4	Ea
Slope Restoration, Non-Freeway, Type A	450	Syd
Slope Restoration, Non-Freeway, Type B	1037	Syd
Gate Box, Adj, Case 2	1	Ea



PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**		REV:
DATE	DESCRIPTION	

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: HORIZ: 1"=40'; VERT: 1"=5'

ROWE PROFESSIONAL SERVICES COMPANY  
O: (989) 772-2138  
www.rowepsc.com

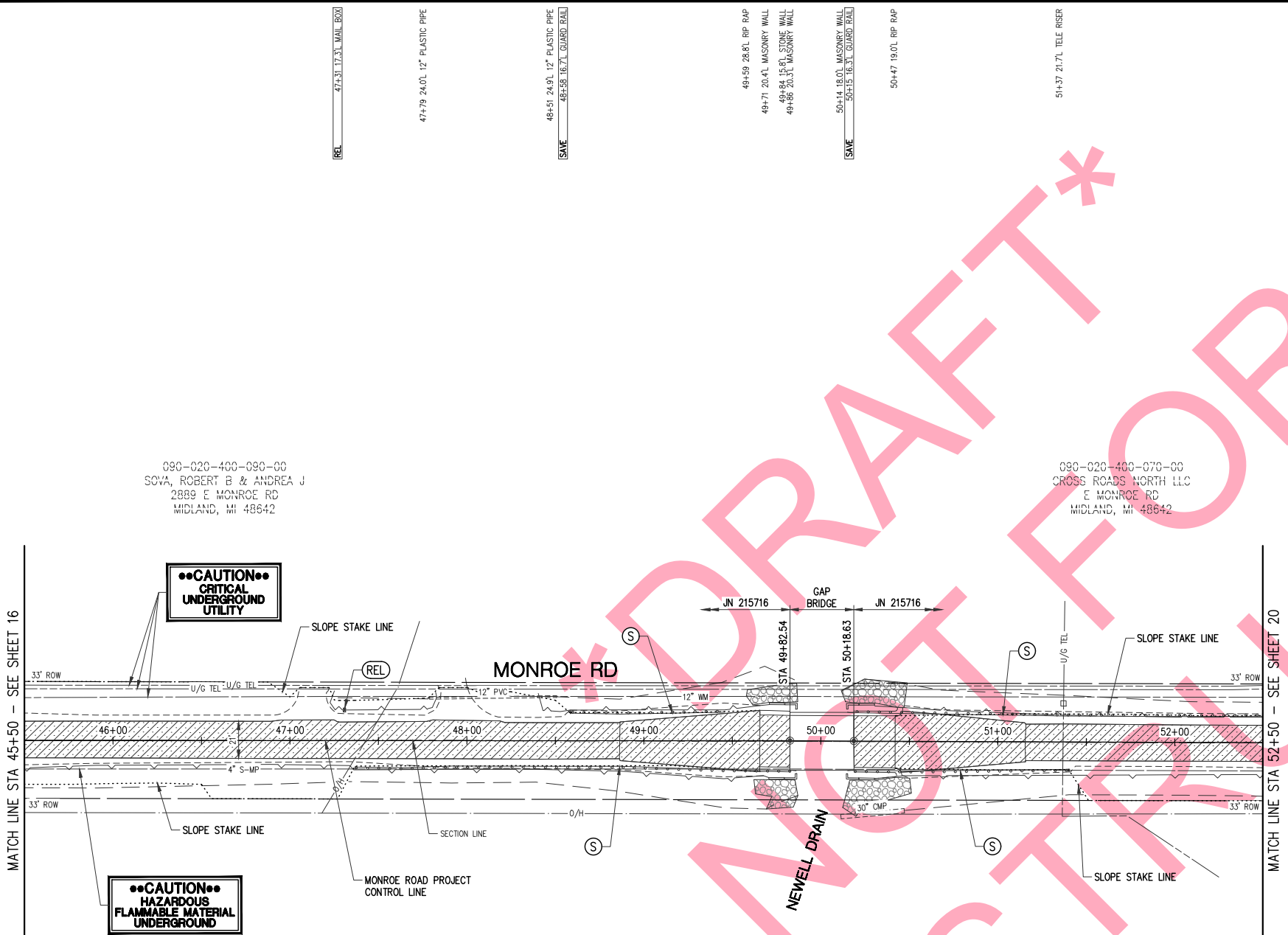
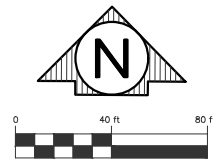
127 S. Main Street  
Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 38+50 TO STA 45+50  
CONSTRUCTION SHEET

SHT# 17 of 27  
JOB No: 2400715

AP 812  
STA 49+82.54, 0.00' RT  
POINT OF INTERSECTION

AP 813  
STA 50+18.63, 0.00' LT  
POINT OF INTERSECTION



090-020-400-090-00  
SOVA, ROBERT B & ANDREA J  
2889 E MONROE RD  
MIDLAND, MI 48642

090-020-400-070-00  
CROSS ROADS NORTH LLC  
E MONROE RD  
MIDLAND, MI 48642

11-31-40-110  
CITY OF MIDLAND  
3610 AIRPORT RD  
MIDLAND, MI 48642

11-29-10-800  
MIDLAND INVESTMENT HOLDINGS, LLC  
9203 N EASTMAN RD  
MIDLAND, MI 48642

**SHEET QUANTITIES**

DESCRIPTION	QUANTITY	UNITS
Cold Milling HMA Surface	1698	Syd



**PLAN SUBMITTALS AND CHANGES**

PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV:

SHT# 18 of 27  
JOB No: 2400715

**ROWE PROFESSIONAL SERVICES COMPANY**



127 S. Main Street  
Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 45+50 TO STA 52+50  
REMOVAL SHEET

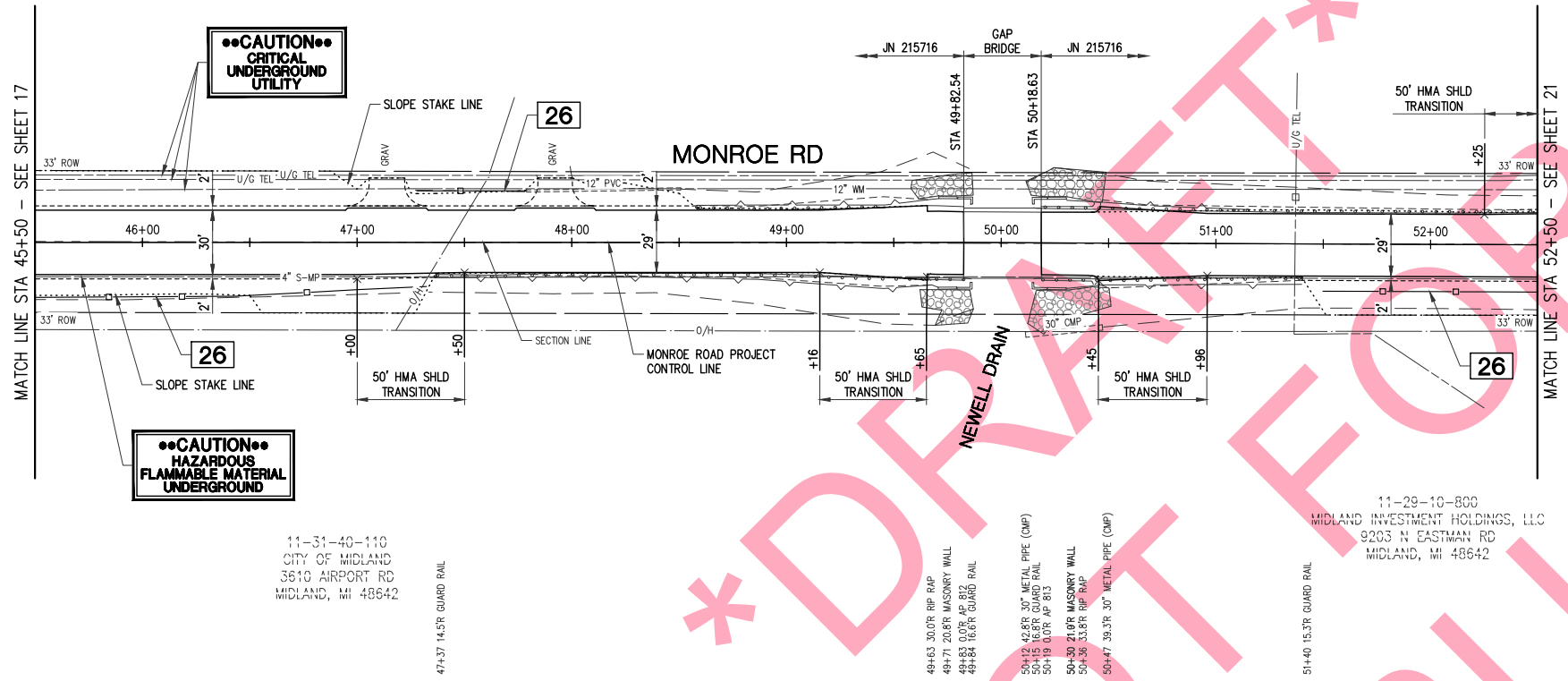
PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1" = 40'

O: (989) 772-2138  
www.rowepsc.com

090-020-400-090-00  
SOVA, ROBERT B & ANDREA J  
2889 E MONROE RD  
MIDLAND, MI 48642

090-020-400-070-00  
CROSS ROADS NORTH LLC  
E MONROE RD  
MIDLAND, MI 48642

AP 812  
STA 49+82.54, 0.00' RT  
POINT OF INTERSECTION  
AP 813  
STA 50+18.63, 0.00' LT  
POINT OF INTERSECTION



STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl II, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, Cl I, 6 inch
	FT	FT	FT	SYD	TON	SYD	SYD
47+14 LT	30	16.6	36.6	29	-	-	-
47+92 LT	30	16.1	36.1	28	-	-	-

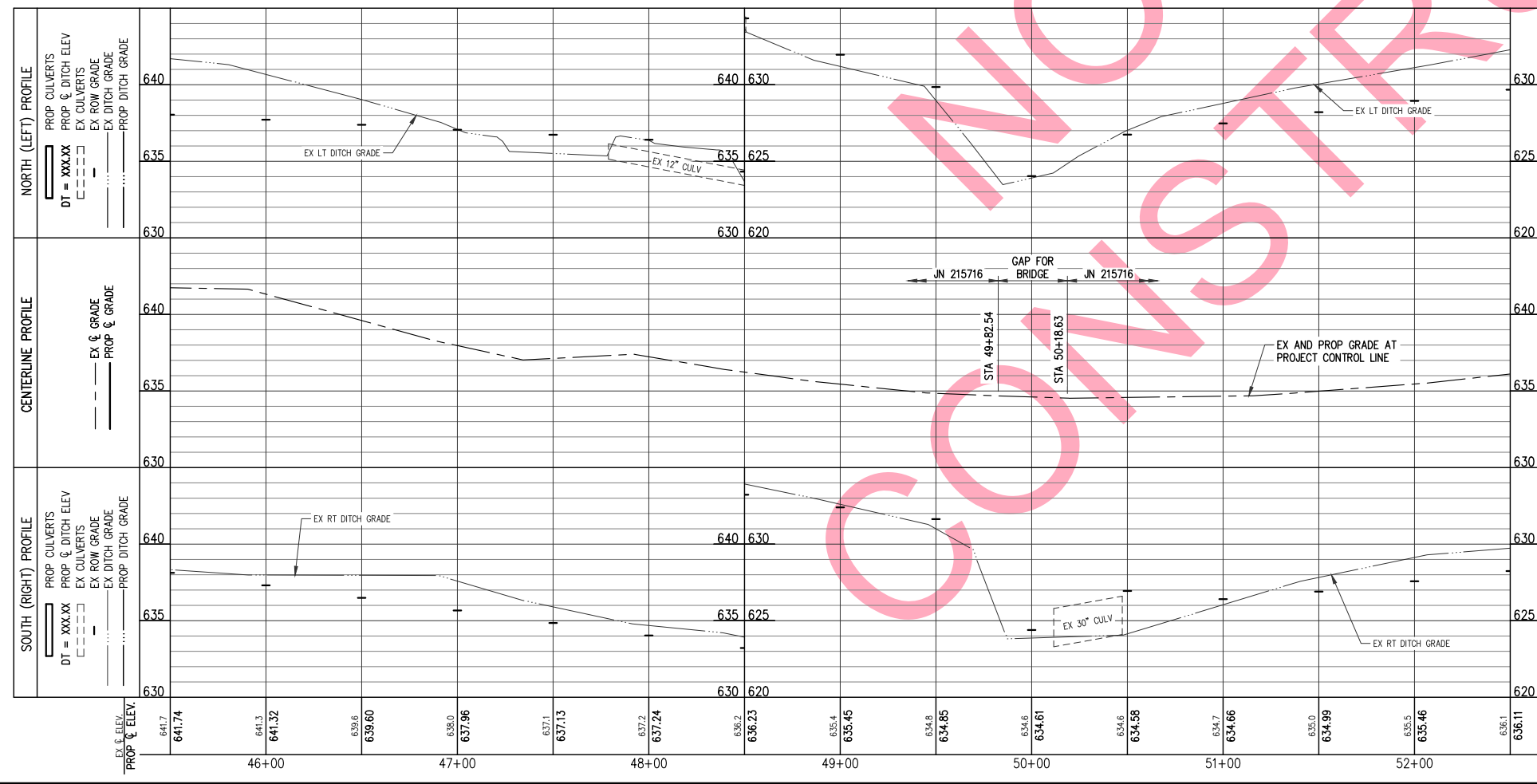
* FOR INFORMATION ONLY

**CAUTION**  
CRITICAL UNDERGROUND UTILITY

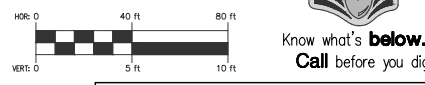
**CAUTION**  
HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

11-31-40-110  
CITY OF MIDLAND  
3610 AIRPORT RD  
MIDLAND, MI 48642

11-29-10-800  
MIDLAND INVESTMENT HOLDINGS, LLC  
9203 N EASTMAN RD  
MIDLAND, MI 48642



DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	334	Ft
Subbase, CIP	325	Cyd
Aggregate Base, 6 inch	604	Syd
Approach, Cl II, 6 inch	57	Syd
Shld, Cl II, Modified	24	Ton
HMA, 4EML	184	Ton
HMA, 5EML	209	Ton
Post, Mailbox	1	Ea
Slope Restoration, Non-Freeway, Type A	299	Syd
Slope Restoration, Non-Freeway, Type B	495	Syd



DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: HORIZ: 1"=40'; VERT: 1"=5'

ROWE PROFESSIONAL SERVICES COMPANY  
O: (989) 772-2138  
www.rowepsc.com

127 S. Main Street  
Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 45+50 TO STA 52+50  
CONSTRUCTION SHEET

SHT# 19 OF 27  
JOB No: 2400715

SAVE 52+60 15.1' GUARD RAIL  
52+67 14.2' TP 2  
52+71 22.7' 12" METAL PIPE (CMP)

REL 54+27 15.0' MAIL BOX  
54+27 23.1' 12" METAL PIPE (CMP)

REL 55+00 15.9' MAIL BOX  
55+03 15.0' MAIL BOX  
55+11 25.2' 12" METAL PIPE (CMP)

55+42 25.6' 12" METAL PIPE (CMP)

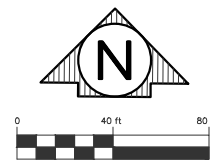
REL 57+54 27.6' 12" METAL PIPE (CMP)

57+82 27.6' 12" METAL PIPE (CMP)

REL 58+23 17.2' MAIL BOX

58+62 26.0' 12" PLASTIC PIPE

REL 59+07 31.9' FIRE HYDRANT  
59+07 31.1' GATE VALVE  
59+07 18.4' MAIL BOX  
59+22 30.8' SPRINKLER HEAD



BM 102  
STA 52+84.14, 32.82' LT  
ELEV = 637.23  
TOP NNE FLANGE BOLT OF HYDRANT, N. SIDE OF MONROE, 1100'± W. OF EASTMAN,  
EAST 19' CENTERLINE OF GRAVEL DRIVE, S50W 28' E. END OF GUARDRAIL

TP 2  
STA 52+66.68, 14.18' LT  
SET IRON W/ "ROWE TRAV" CAP N. SIDE OF MONROE, 1100'± W. O F EASTMAN,  
NBOW 4.5' E. END OF GUARDRAIL, SOUTH 4.5' EDGE OF ASPHALT

EX STRUCTURE  
INVENTORIES

5324  
RIM = 637.01  
8" W = 635.82  
36" W = 630.22  
36" E = 630.22  
12" N = 631.01

5423  
RIM = 634.50  
36" W = 629.60  
36" E = 629.60

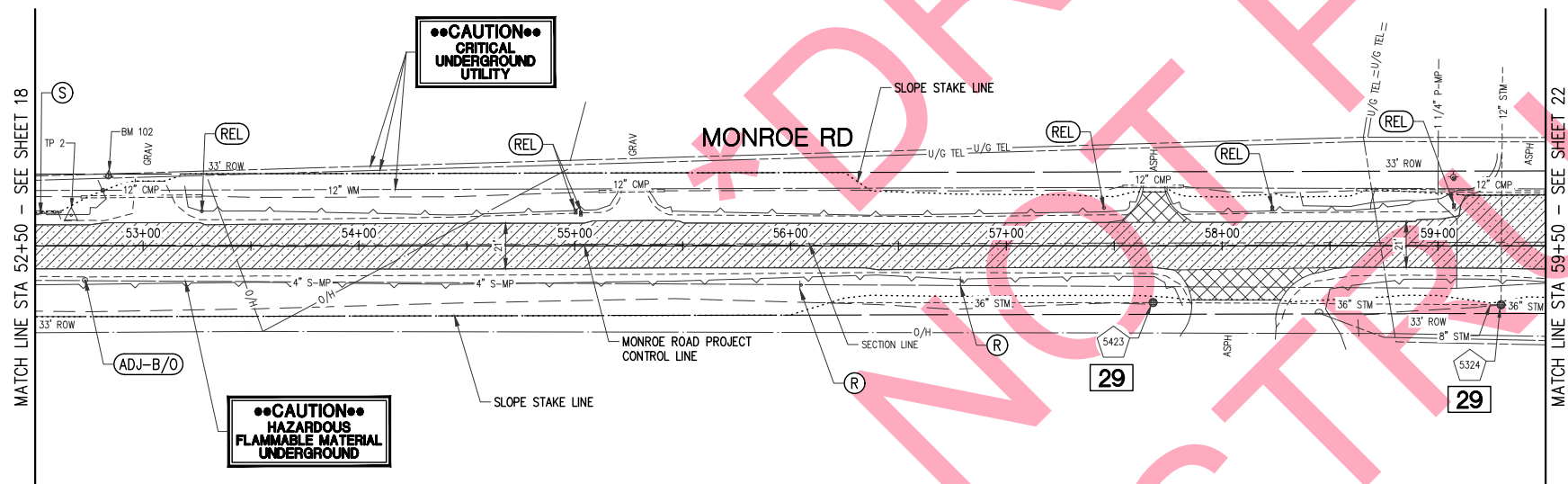
090-020-400-110-00  
CROSS ROADS NORTH LLC  
2899 E MONROE RD  
MIDLAND, MI 48642

090-020-400-120-00  
JOHNSON, MARK A ET UX  
2915 E MONROE RD  
MIDLAND, MI 48642

090-020-400-130-00  
NEMETH, JEFFERY L  
2935 E MONROE RD  
MIDLAND, MI 48642

11-29-10-800  
MIDLAND INVESTMENT HOLDINGS, LLC  
9203 N EASTMAN RD  
MIDLAND, MI 48642

090-029-100-003-00  
MIDLAND EAGLES AERIE 2110  
2935 E MONROE RD  
MIDLAND, MI 48642



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Cold Milling HMA Surface	1700	Syd
HMA Surface, Rem	114	Syd
Sign, Type III, Rem	2	Ea
Ground Mtd Sign Support, Rem	3	Ea



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: 1" = 40'

ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street  
Mt. Pleasant, MI 48858  
O: (989) 772-2138  
www.rowepsc.com

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 52+50 TO STA 59+50  
REMOVAL SHEET

SHT# 20 OF 27  
JOB No: 2400715

52+60 15.1' GUARD RAIL  
52+67 14.2' TP 2  
52+71 22.7' 12" METAL PIPE (CMP)  
ADJ

52+81 25.7' GATE VALVE  
52+84 30.2' FIRE HYDRANT  
52+84 32.8' BM 102

53+27 23.1' 12" METAL PIPE (CMP)

090-020-400-110-00  
CROSS ROADS NORTH LLC  
2899 E MONROE RD  
MIDLAND, MI 48642

090-020-400-120-00  
JOHNSON, MARK A ET UX  
2915 E MONROE RD  
MIDLAND, MI 48642

090-020-400-130-00  
MCWETH, JEFFERY L  
2935 E MONROE RD  
MIDLAND, MI 48642

57+54 27.6' 12" METAL PIPE (CMP)

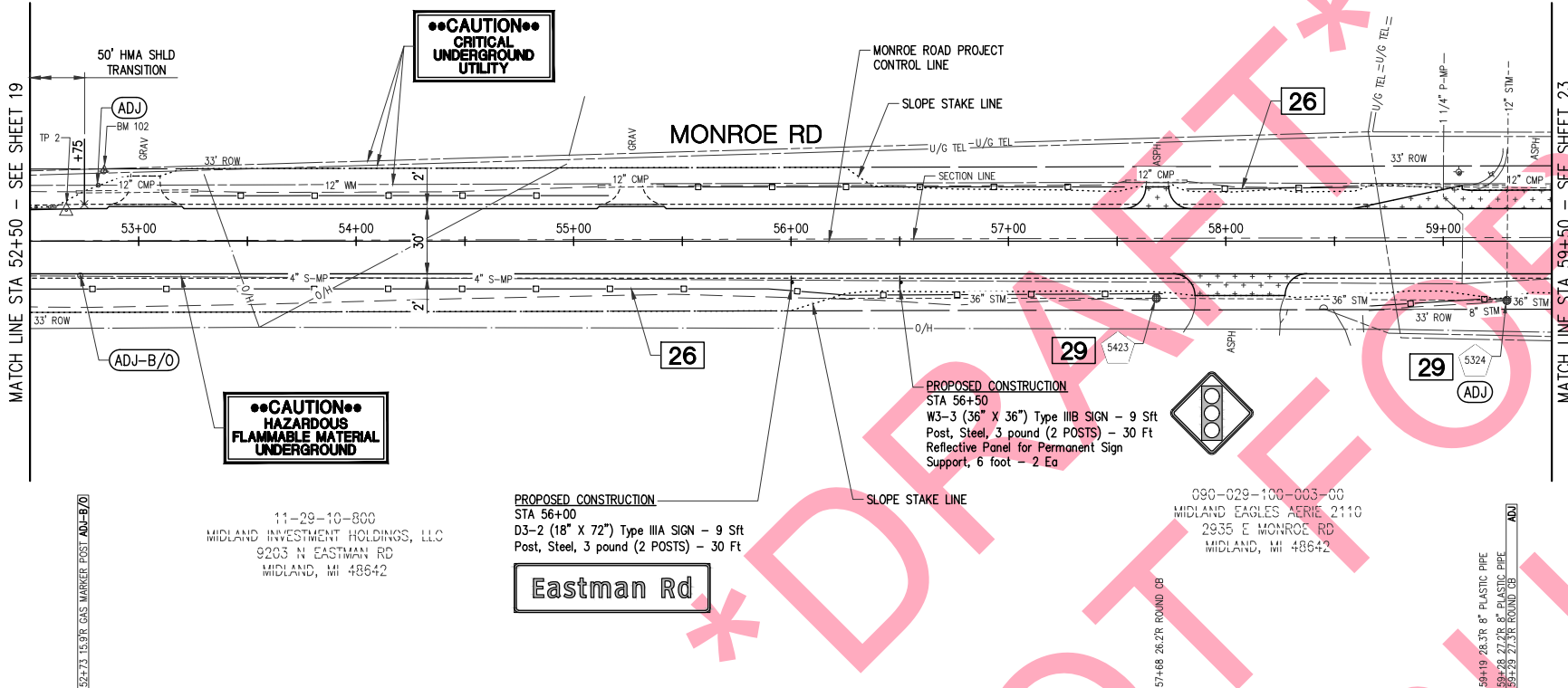
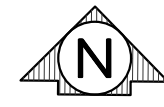
57+82 27.6' 12" METAL PIPE (CMP)

58+62 26.0' 12" PLASTIC PIPE

59+07 31.9' FIRE HYDRANT  
59+07 31.1' GATE VALVE  
59+22 30.8' SPRINKLER HEAD

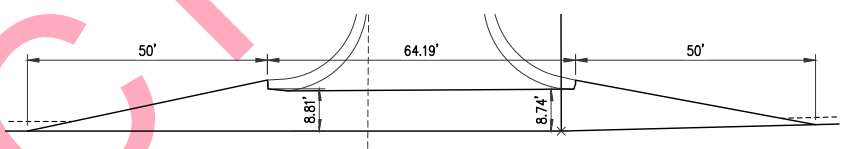
BM 102  
STA 52+84.14, 32.82' LT  
ELEV = 637.23  
TOP NINE FLANGE BOLT OF HYDRANT, N. SIDE OF MONROE,  
1100± W. OF EASTMAN, EAST 19' CENTERLINE OF GRAVEL  
DRIVE, S50W 28° E. END OF GUARDRAIL

TP 2  
STA 52+66.68, 14.18' LT  
SET IRON W/ "ROWE TRAV" CAP N. SIDE OF MONROE, 1100±  
W. OF EASTMAN, NROW 4.5' E. END OF GUARDRAIL, SOUTH  
4.5' EDGE OF ASPHALT

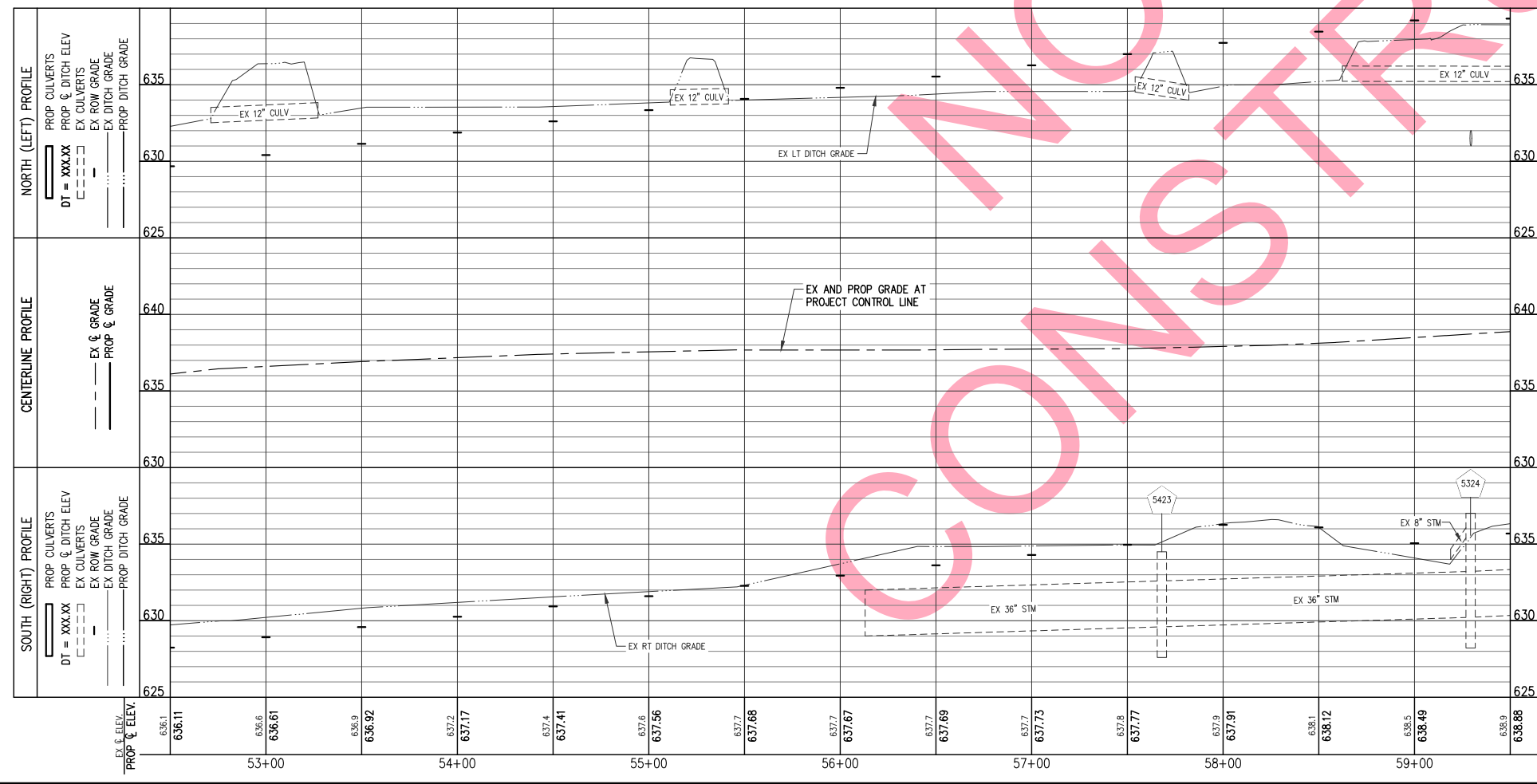


STATION TO CENTER OF DRIVE AND OFFSET	DRIVEWAY SCHEDULE					
	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl II, 6 inch	HMA Approach	Driveway, Nonreint Conc, 6 inch
	FT	FT	FT	SYD	TON	SYD
53+03 LT	30	13.6	33.6	25	-	-
55+27 LT	30	10.0	29.9	20	-	-
57+68 LT	25	10.6	30.6	-	4	17
58+06 RT	25	41.6	61.6	-	10	51
59+43 LT	25	64.2	164.2	-	21	106

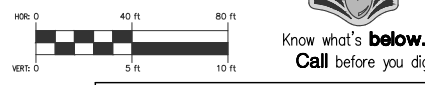
* FOR INFORMATION ONLY



DRIVEWAY DETAIL STA 59+43 LT



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	1105	Ft
Subbase, CIP	452	Cyd
Aggregate Base, 6 inch	762	Syd
Approach, Cl I, 6 inch	174	Syd
Approach, Cl II, 6 inch	45	Syd
Shld, Cl II, Modified	51	Ton
Dr Structure Cover, Adj, Case 2	1	Ea
HMA Approach	35	Ton
HMA, 4EML	199	Ton
HMA, 5EML	223	Ton
Post, Mailbox	6	Ea
Post, Steel, 3 pound	60	Ft
Sign, Type IIIA	9	Sft
Sign, Type IIIB	9	Sft
Reflective Panel for Permanent Sign Support, 6 foot	2	Ea
Slope Restoration, Non-Freeway, Type A	602	Syd
Slope Restoration, Non-Freeway, Type B	1018	Syd
Gate Box, Adj, Case 2	1	Ea



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: HORIZ: 1"=40'; VERT: 1"=5'

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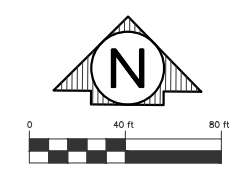
127 S. Main Street  
Mt. Pleasant, MI 48858

PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
STA 52+50 TO STA 58+50  
CONSTRUCTION SHEET

SHT# 21 of 27  
JOB No: 2400715

59+73 23.91' 4" PLASTIC PIPE  
 59+90 23.81' 4" PLASTIC PIPE  
 59+90 24.51' 12" METAL PIPE (CMP)  
 60+39 29.41' 12" CONC PIPE (RCP)  
 60+89 31.21' 12" CONC PIPE (RCP)  
 62+04 20.81' SQUARE CB  
 62+96 36.71' FIRE HOBBANT  
 62+99 33.01' GATE VALVE

090-020-400-160-00  
 CROSS ROADS NORTH LLC  
 2525 N EASTMAN RD  
 MIDLAND, MI 48642



BM 101  
 STA 63+28.21, 33.25' RT  
 ELEV = 642.31  
 TOP N ANCHOR BOLT OF TRAFFIC POLE, SW QUAD OF EASTMAN AND  
 MONROE, N45E 2.6' BACK OF CURB RADIUS, S11W 7' CATCHBASIN

TP 1  
 STA 62+96.13, 30.84' RT  
 SET IRON W/ "ROWE TRAV" CAP SW QUAD OF EASTMAN AND MONROE,  
 S48E 25.5' POWER POLE, NORTH 8.4' BACK OF CURB

AP 814  
 STA 64+43.56, 0.00' RT  
 POINT OF ENDING

SCOR 203  
 STA 63+61.40, 2.62' LT  
 NE CORNER, SECTION 29, T15N-R2E, LARKIN TOWNSHIP, MIDLAND  
 COUNTY, MICHIGAN, FOUND 1/2" IRON IN MON. BOX

EX STRUCTURE  
 INVENTORIES

5003  
 RIM = 640.32  
 36" W = 632.60  
 36" E = 632.60

5084  
 RIM = 639.77

5087  
 RIM = 638.00  
 36" W = 631.83  
 36" E = 631.83  
 15" N = 633.21

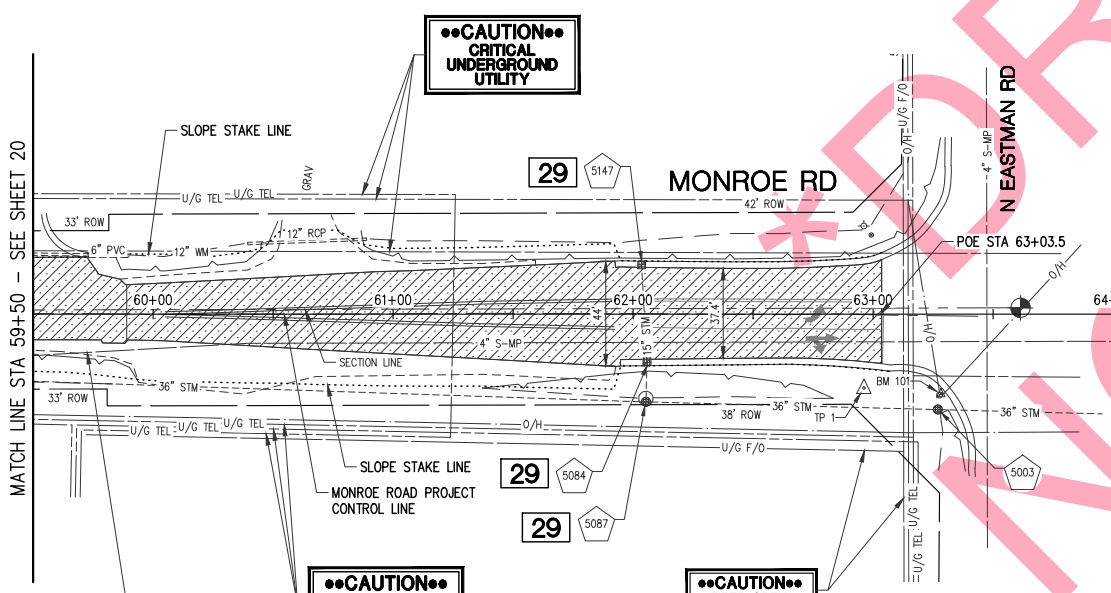
5147  
 RIM = 639.42

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 40'

ROWE PROFESSIONAL  
 SERVICES COMPANY

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PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 52+50 TO STA 63+03.5 (POE)  
 REMOVAL SHEET



HAZARDOUS  
 FLAMMABLE MATERIAL  
 UNDERGROUND

CAUTION  
 CRITICAL  
 UNDERGROUND  
 UTILITY

CAUTION  
 CRITICAL  
 UNDERGROUND  
 UTILITY

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	3	Ea
Cold Milling HMA Surface	1364	Syd

090-029-100-002-00  
 CROSS ROADS NORTH LLC  
 2525 N EASTMAN RD  
 MIDLAND, MI 48642

62+06 36.61' ROUND CB  
 62+06 20.11' SQUARE CB

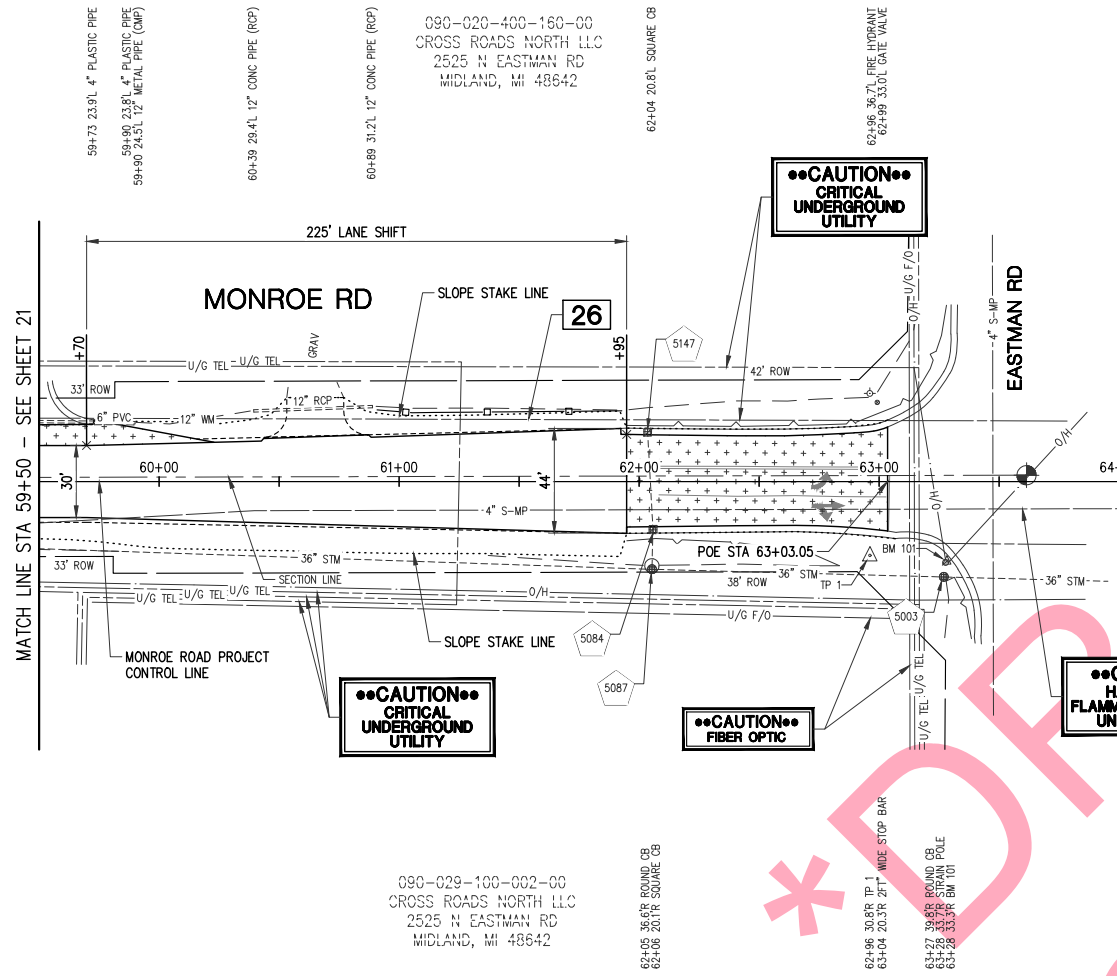
62+96 30.81' TP 1  
 63+04 20.31' 21" WIDE STOP BAR

63+27 39.61' ROUND CB  
 63+28 33.51' BM 101

PLAN SUBMITTALS AND CHANGES		REV:
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**		
DATE	DESCRIPTION	

SHT# 22 OF 27  
 JOB No: 2400715

DRAFT *  
 NOT FOR CONSTRUCTION



DRIVEWAY SCHEDULE							
STATION TO CENTER OF DRIVE AND OFFSET	OFFSET TO BACK OF DRIVE	WIDTH AT REMOVAL LIMITS	WIDTH AT OPENING	Approach, Cl II, 6 inch	HMA Approach	Driveway, Nonreinf Conc, 6 inch	Approach, Cl I, 6 inch
FT	FT	FT	FT	SYD	TON	SYD	SYD
60+65 LT	30	23.7	43.8	48	-	-	-

* FOR INFORMATION ONLY

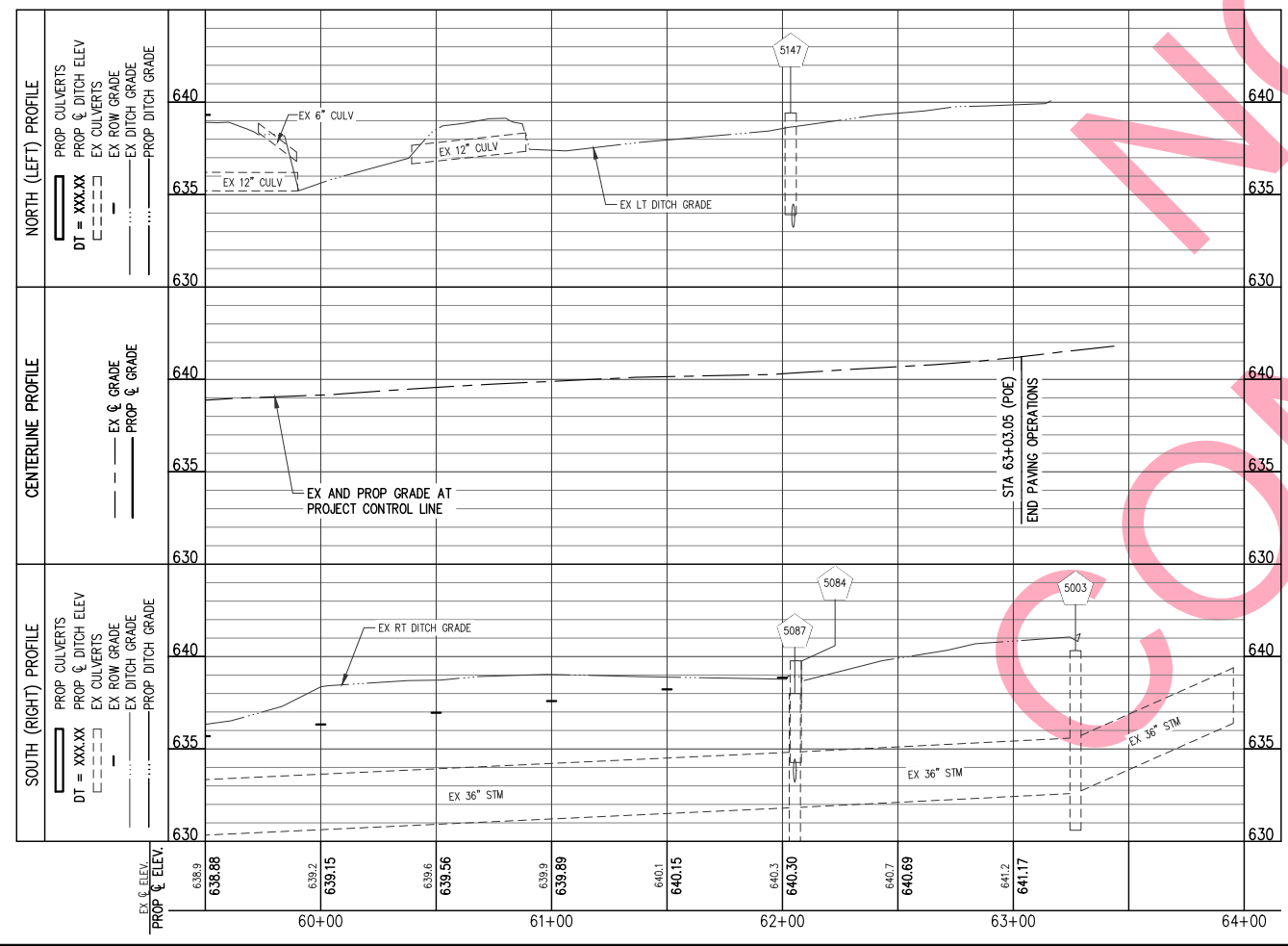
BM 101  
 STA 63+28.21, 33.25' RT  
 ELEV = 642.31  
 TOP N. ANCHOR BOLT OF TRAFFIC POLE, SW QUAD OF EASTMAN AND MONROE, N45E 2.6' BACK OF CURB RADIUS, S11W 7' CATCHBASIN

TP 1  
 STA 62+96.13, 30.84' RT  
 SET IRON W/ "ROME TRAV" CAP SW QUAD OF EASTMAN AND MONROE, S48E 25.5' POWER POLE, NORTH 8.4' BACK OF CURB

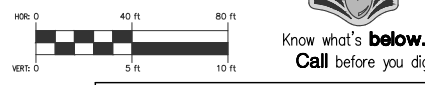
AP 814  
 STA 64+43.56, 0.00' RT  
 POINT OF ENDING

SCOR 203  
 STA 63+61.40, 2.62' LT  
 NE CORNER, SECTION 29, T15N-R2E, LARKIN TOWNSHIP, MIDLAND COUNTY, MICHIGAN, FOUND 1/2" IRON IN MON. BOX

090-029-100-002-00  
 CROSS ROADS NORTH LLC  
 2525 N EASTMAN RD  
 MIDLAND, MI 488642



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Silt Fence	98	Ft
Subbase, CIP	76	Cyd
Aggregate Base, 6 inch	143	Syd
Approach, Cl II, 6 inch	48	Syd
Shld, Cl II, Modified	8	Ton
Dr Structure Cover, Adj, Case 1	2	Ea
Dr Structure Cover, Adj, Case 2	1	Ea
HMA Approach	89	Ton
HMA, 4EML	113	Ton
HMA, 5EML	94	Ton
Slope Restoration, Non-Freeway, Type B	446	Syd



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

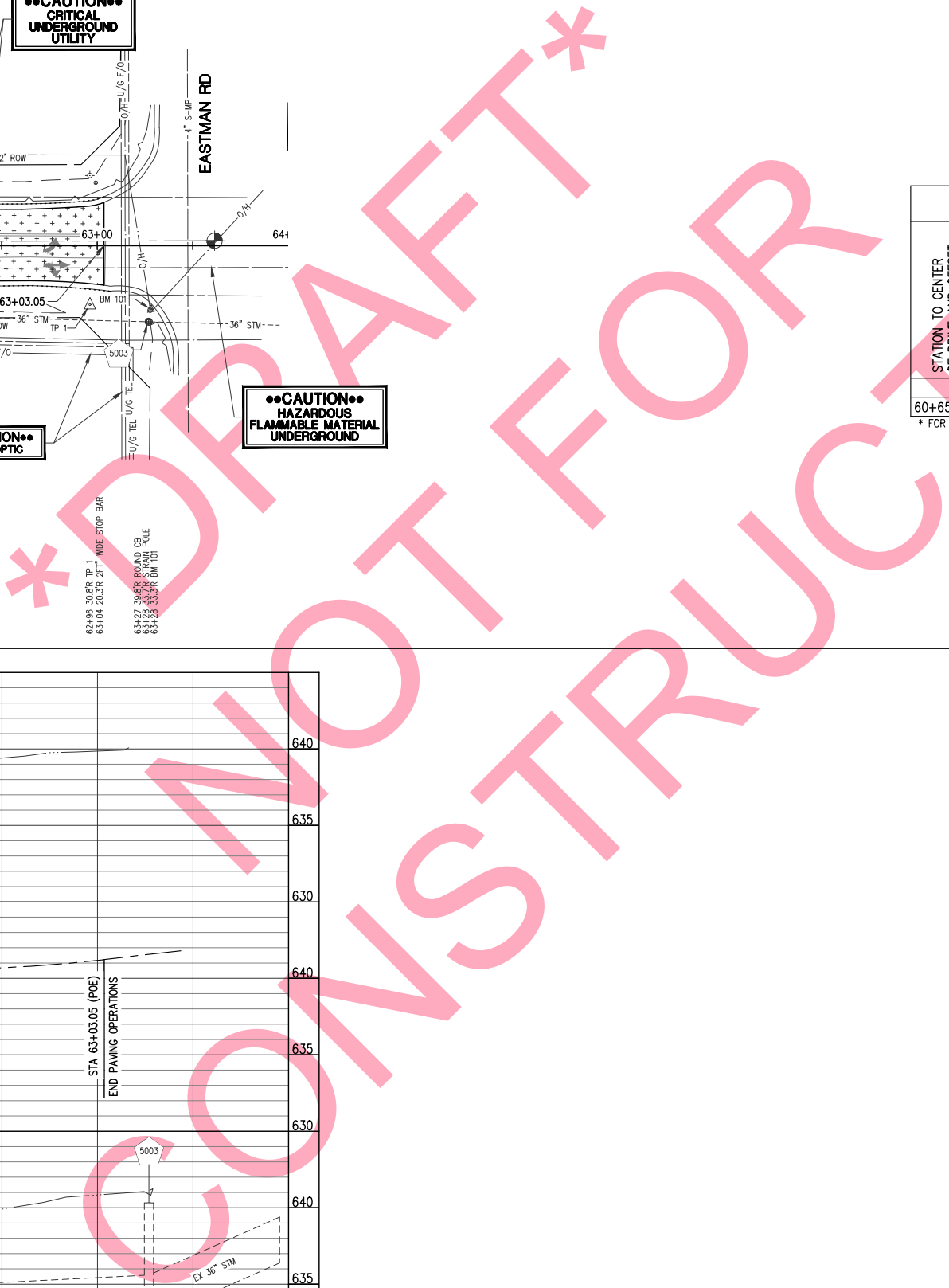
PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: HORIZ: 1"=40'; VERT: 1"=5'

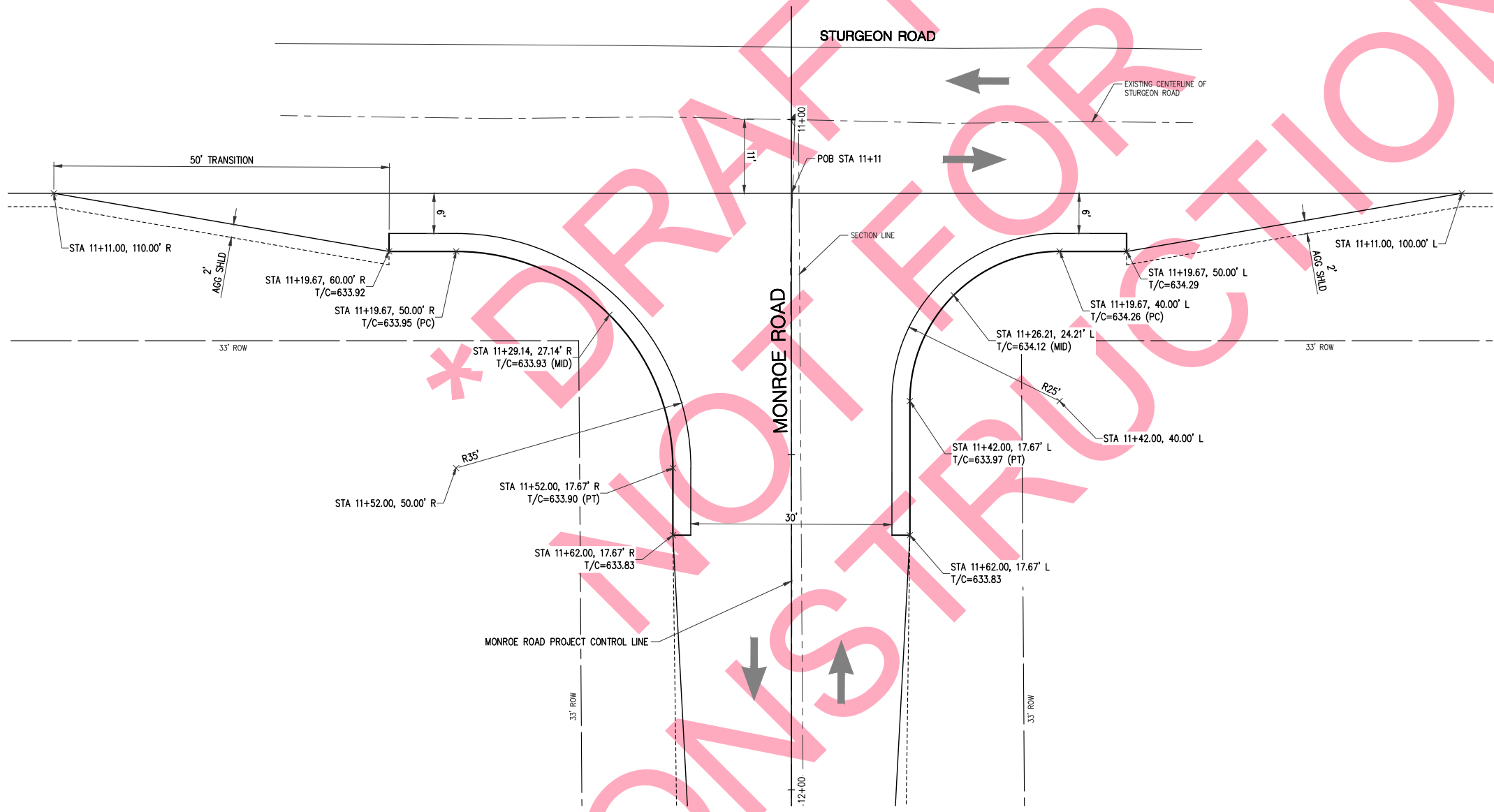
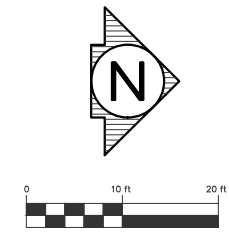
ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street  
 Mt. Pleasant, MI 48858  
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PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STA 58+50 TO STA 61+94.82 (POE)  
 CONSTRUCTION SHEET

SHT# 23 OF 27  
 JOB No: 2400715





MONROE ROAD AND STURGEON ROAD INTERSECTION GRADING



PLAN SUBMITTALS AND CHANGES	
PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**	
DATE	DESCRIPTION

REV: _____  
 SHT# 24 OF 27  
 JOB No: 2400715

ROWE PROFESSIONAL SERVICES COMPANY



127 S. Main Street  
 Mt. Pleasant, MI 48858

PREPARED FOR  
 MIDLAND COUNTY ROAD COMMISSION  
 MONROE ROAD REHABILITATION

GRADING SHEET

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: 1" = 10'

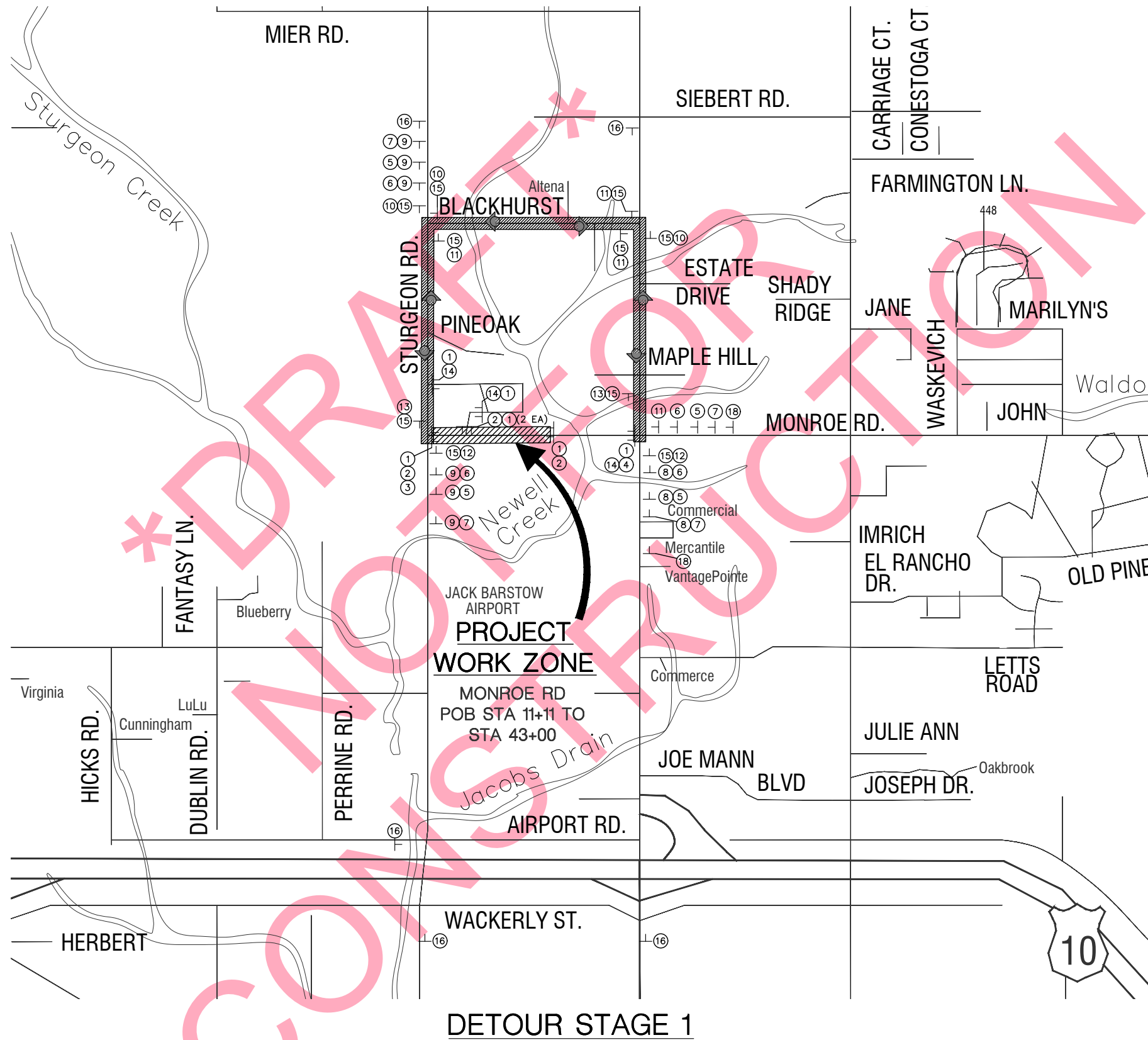
O: (989) 772-2138  
 www.rowepsc.com



SYMBOL	SIGN	DESIGNATION	SIZE	NUMBER OF SIGNS
①		TYPE III BARRICADE	8'	7
②		R11-2	48" X 30"	3
③		M4-10L	48" X 18"	1
④		M4-10R	48" X 18"	1
⑤		W20-3	48" X 48"	4
⑥		W20-2	48" X 48"	4
⑦		W20-1	48" X 48"	4
⑧		W20-13P (SPECIAL)	48" X 15"	3
⑨		W20-13P (SPECIAL)	48" X 15"	6
⑩		M4-9L	30" X 24"	3
⑪		M4-9R	30" X 24"	4
⑫		M4-9j	30" X 24"	2
⑬		M4-8a	24" X 18"	2
⑭		R11-4	60" X 30"	3
⑮		W20-12P (SPECIAL)	30" X 12"	10
⑯		SPECIAL	54" X 30"	5
⑰		SPECIAL	54" X 30"	0
⑱		SPECIAL	54" X 30"	2

	TYPE III BARRICADE
	SIGNS
	TRAFFIC FLOW
	MONROE RD DETOUR



PLAN SUBMITTALS AND CHANGES		REV:
DATE	DESCRIPTION	

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: NO SCALE

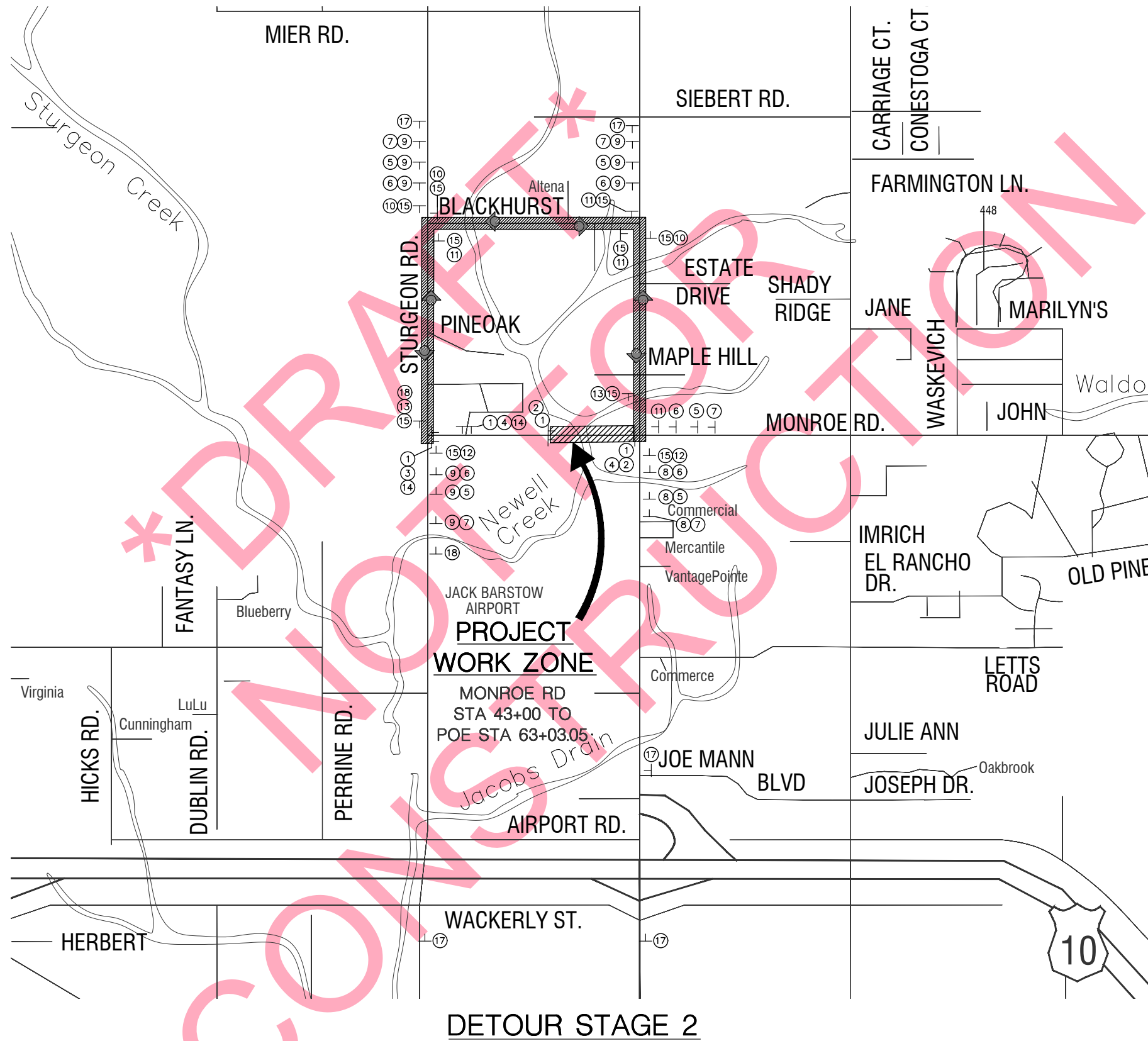
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PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STAGE 1  
 DETOUR SHEET

SHT# 25 OF 27  
 JOB No: 2400715

SYMBOL	SIGN	DESIGNATION	SIZE	NUMBER OF SIGNS
①		TYPE III BARRICADE	8'	4
②		R11-2	48" X 30"	2
③		M4-10L	48" X 18"	1
④		M4-10R	48" X 18"	1
⑤		W20-3	48" X 48"	5
⑥		W20-2	48" X 48"	5
⑦		W20-1	48" X 48"	5
⑧		W20-13P (SPECIAL)	48" X 15"	6
⑨		W20-13P (SPECIAL)	48" X 15"	6
⑩		M4-9L	30" X 24"	3
⑪		M4-9R	30" X 24"	4
⑫		M4-9j	30" X 24"	2
⑬		M4-8a	24" X 18"	2
⑭		R11-4	60" X 30"	2
⑮		W20-12P (SPECIAL)	30" X 12"	10
⑯		SPECIAL	54" X 30"	0
⑰		SPECIAL	54" X 30"	5
⑱		SPECIAL	54" X 30"	2

- TYPE III BARRICADE
- SIGNS
- TRAFFIC FLOW
- MONROE RD DETOUR



PLAN SUBMITTALS AND CHANGES		REV:
DATE	DESCRIPTION	

PLAN DATE: JANUARY 2025  
 PROJECT MGR: MJS  
 REVIEWER: TCL  
 SCALE: NO SCALE

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PREPARED FOR  
**MIDLAND COUNTY ROAD COMMISSION**  
**MONROE ROAD REHABILITATION**  
 STAGE 2  
 DETOUR SHEET

SHT# 26 OF 27  
 JOB No: 2400715

PLotted: 2/18/2025 10:40 AM  
 R:\Projects\2400715\Orig\Construction Drawings\SP-2400715-016.dwg



LOG OF SOIL  
BORING NO. SB-1  
PROJECT Monroe Road - Sturgeon Road to Eastman Road  
LOCATION Eastbound - 7' RT

JOB NO. 24-63420  
DATE 12/17/2024

Sample & Type	Depth	Legend	SOIL DESCRIPTION	Penetration Blows for 6"	Moisture %	Natural Wt. P.C.F.	Dry Den. Wt. P.C.F.	Unc. Comp. Strength PSF	St. %
	0'3"		ASPHALT						
	0'6"		GRAVEL						
	0'9"		GRAVEL						
	1'0"								
	1'3"								
	1'6"								
A	1'9"			6					
	2'0"								
S.S.	2'3"		Extremely compact moist brown SAND	9					
	2'6"								
	2'9"			9					
	3'0"								
	3'3"			11					
	3'6"								
	3'9"								
	4'0"		4'0"						
B	4'3"			6					
	4'6"								
S.S.	4'9"		Very compact moist brown SAND	7					
	5'0"								
	5'3"			8					
	5'6"		End of Boring						
	5'9"								
	6'0"								

TYPE OF SAMPLE: D - DISTURBED, U.L. - UNDIST. LINER, S.T. - SHELBY TUBE, S.S. - SPLIT SPOON, R.C. - ROCK CORE, * - CALIBRATED, PENETROMETER (POCKET PENETROMETER)

Note(s): Boring was closed with auger cuttings and cold patch.

GROUND WATER OBSERVATIONS: G.W. ENCOUNTERED AT 4 FT. 6 INS., G.W. ENCOUNTERED AT FT. INS., G.W. AFTER COMPLETION FT. INS., G.W. AFTER HRS. FT. INS.

SPT Hammer: Crew Chief: JD  
Standard Penetration Test - Driving 2" O.D. Sampler 1" With 140lb Hammer Falling 30". Count Made at 6" Intervals  
G.W. VOLUMES: NONE



LOG OF SOIL  
BORING NO. SB-2  
PROJECT Monroe Road - Sturgeon Road to Eastman Road  
LOCATION Westbound - 8' RT

JOB NO. 24-63420  
DATE 12/17/2024

Sample & Type	Depth	Legend	SOIL DESCRIPTION	Penetration Blows for 6"	Moisture %	Natural Wt. P.C.F.	Dry Den. Wt. P.C.F.	Unc. Comp. Strength PSF	St. %
	0'3"		ASPHALT						
	0'6"		GRAVEL						
	0'9"		GRAVEL						
	1'0"								
	1'3"								
	1'6"								
A	1'9"			6					
	2'0"								
S.S.	2'3"		Compact moist brown SAND	5					
	2'6"								
	2'9"			5					
	3'0"								
	3'3"			5					
	3'6"								
	3'9"								
	4'0"		4'0"						
B	4'3"			3					
	4'6"								
S.S.	4'9"		Slightly compact moist brown SAND	2					
	5'0"								
	5'3"			1					
	5'6"		End of Boring						
	5'9"								
	6'0"								

TYPE OF SAMPLE: D - DISTURBED, U.L. - UNDIST. LINER, S.T. - SHELBY TUBE, S.S. - SPLIT SPOON, R.C. - ROCK CORE, * - CALIBRATED, PENETROMETER (POCKET PENETROMETER)

Note(s): Boring was closed with auger cuttings and cold patch.

GROUND WATER OBSERVATIONS: G.W. ENCOUNTERED AT FT. INS., G.W. ENCOUNTERED AT FT. INS., G.W. AFTER COMPLETION FT. INS., G.W. AFTER HRS. FT. INS.

SPT Hammer: Crew Chief: JD  
Standard Penetration Test - Driving 2" O.D. Sampler 1" With 140lb Hammer Falling 30". Count Made at 6" Intervals  
G.W. VOLUMES: NONE



LOG OF SOIL  
BORING NO. SB-3  
PROJECT Monroe Road - Sturgeon Road to Eastman Road  
LOCATION Eastbound - 1' RT

JOB NO. 24-63420  
DATE 12/17/2024

Sample & Type	Depth	Legend	SOIL DESCRIPTION	Penetration Blows for 6"	Moisture %	Natural Wt. P.C.F.	Dry Den. Wt. P.C.F.	Unc. Comp. Strength PSF	St. %
	0'3"		ASPHALT						
	0'6"		GRAVEL						
	0'9"		GRAVEL						
	1'0"								
	1'3"								
	1'6"								
A	1'9"			5					
	2'0"								
S.S.	2'3"			6					
	2'6"								
	2'9"			6					
	3'0"								
	3'3"		Very compact moist brown SAND	8					
	3'6"								
	3'9"								
	4'0"		4'0"						
B	4'3"			5					
	4'6"								
S.S.	4'9"			6					
	5'0"								
	5'3"			7					
	5'6"		End of Boring						
	5'9"								
	6'0"								

TYPE OF SAMPLE: D - DISTURBED, U.L. - UNDIST. LINER, S.T. - SHELBY TUBE, S.S. - SPLIT SPOON, R.C. - ROCK CORE, * - CALIBRATED, PENETROMETER (POCKET PENETROMETER)

Note(s): Boring was closed with auger cuttings and cold patch.

GROUND WATER OBSERVATIONS: G.W. ENCOUNTERED AT FT. INS., G.W. ENCOUNTERED AT FT. INS., G.W. AFTER COMPLETION FT. INS., G.W. AFTER HRS. FT. INS.

SPT Hammer: Crew Chief: JD  
Standard Penetration Test - Driving 2" O.D. Sampler 1" With 140lb Hammer Falling 30". Count Made at 6" Intervals  
G.W. VOLUMES: NONE



LOG OF SOIL  
BORING NO. SB-4  
PROJECT Monroe Road - Sturgeon Road to Eastman Road  
LOCATION Westbound - 3' RT

JOB NO. 24-63420  
DATE 12/17/2024

Sample & Type	Depth	Legend	SOIL DESCRIPTION	Penetration Blows for 6"	Moisture %	Natural Wt. P.C.F.	Dry Den. Wt. P.C.F.	Unc. Comp. Strength PSF	St. %
	0'3"		ASPHALT						
	0'6"		GRAVEL						
	0'9"		GRAVEL						
	1'0"								
	1'3"								
	1'6"								
A	1'9"			7					
	2'0"								
S.S.	2'3"		Extremely compact moist brown SAND	9					
	2'6"								
	2'9"			10					
	3'0"								
	3'3"			10					
	3'6"								
	3'9"								
	4'0"		4'0"						
B	4'3"			4					
	4'6"								
S.S.	4'9"		Compact wet brown SAND	5					
	5'0"								
	5'3"			4					
	5'6"		End of Boring						
	5'9"								
	6'0"								

TYPE OF SAMPLE: D - DISTURBED, U.L. - UNDIST. LINER, S.T. - SHELBY TUBE, S.S. - SPLIT SPOON, R.C. - ROCK CORE, * - CALIBRATED, PENETROMETER (POCKET PENETROMETER)

Note(s): Boring was closed with auger cuttings and cold patch.

GROUND WATER OBSERVATIONS: G.W. ENCOUNTERED AT 4 FT. 6 INS., G.W. ENCOUNTERED AT FT. INS., G.W. AFTER COMPLETION NONE FT. INS., G.W. AFTER HRS. FT. INS.

SPT Hammer: Crew Chief: JD  
Standard Penetration Test - Driving 2" O.D. Sampler 1" With 140lb Hammer Falling 30". Count Made at 6" Intervals  
G.W. VOLUMES: NONE



LOG OF SOIL  
BORING NO. SB-5  
PROJECT Monroe Road - Sturgeon Road to Eastman Road  
LOCATION Eastbound - 4' RT

JOB NO. 24-63420  
DATE 12/17/2024

Sample & Type	Depth	Legend	SOIL DESCRIPTION	Penetration Blows for 6"	Moisture %	Natural Wt. P.C.F.	Dry Den. Wt. P.C.F.	Unc. Comp. Strength PSF	St. %
	0'3"		ASPHALT						
	0'6"		GRAVEL						
	0'9"		GRAVEL						
	1'0"								
	1'3"								
	1'6"								
A	1'9"			6					
	2'0"		Compact moist brown SAND						
	2'3"			6					
	2'6"								
	2'9"			7					
	3'0"								
	3'3"			7					
	3'6"		Very stiff moist brown CLAY						
	3'9"								
	4'0"		4'0"						
B	4'3"			3					
	4'6"								
S.S.	4'9"		Stiff moist brown CLAY	4					
	5'0"								
	5'3"			6					
	5'6"		End of Boring						
	5'9"								
	6'0"								

TYPE OF SAMPLE: D - DISTURBED, U.L. - UNDIST. LINER, S.T. - SHELBY TUBE, S.S. - SPLIT SPOON, R.C. - ROCK CORE, * - CALIBRATED, PENETROMETER (POCKET PENETROMETER)

Note(s): Boring was closed with auger cuttings and cold patch.

GROUND WATER OBSERVATIONS: G.W. ENCOUNTERED AT FT. INS., G.W. ENCOUNTERED AT FT. INS., G.W. AFTER COMPLETION FT. INS., G.W. AFTER HRS. FT. INS.

SPT Hammer: Crew Chief: JD  
Standard Penetration Test - Driving 2" O.D. Sampler 1" With 140lb Hammer Falling 30". Count Made at 6" Intervals  
G.W. VOLUMES: NONE



Know what's below.  
Call before you dig.

PLAN SUBMITTALS AND CHANGES

DATE	DESCRIPTION

PRELIMINARY PLANS - **NOT FOR CONSTRUCTION**  
REV: _____  
SHT# 27 of 27  
JOB No: 2400715

PLAN DATE: JANUARY 2025  
PROJECT MGR: MJS  
REVIEWER: TCL  
SCALE: NO SCALE

ROWE PROFESSIONAL SERVICES COMPANY  
O: (989) 772-2138  
www.rowepsc.com

127 S. Main Street  
Mt. Pleasant, MI 48858

PREPARED FOR  
MIDLAND COUNTY ROAD COMMISSION  
MONROE ROAD REHABILITATION  
LOG OF BORINGS