

ALLEGAN COUNTY ROAD COMMISSION

1 14TH AVENUE CULVERT REPLACEMENT WEST OF 71ST STREET - GANGES TOWNSHIP

ACRC PROJECT NO.

LH 4894

NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

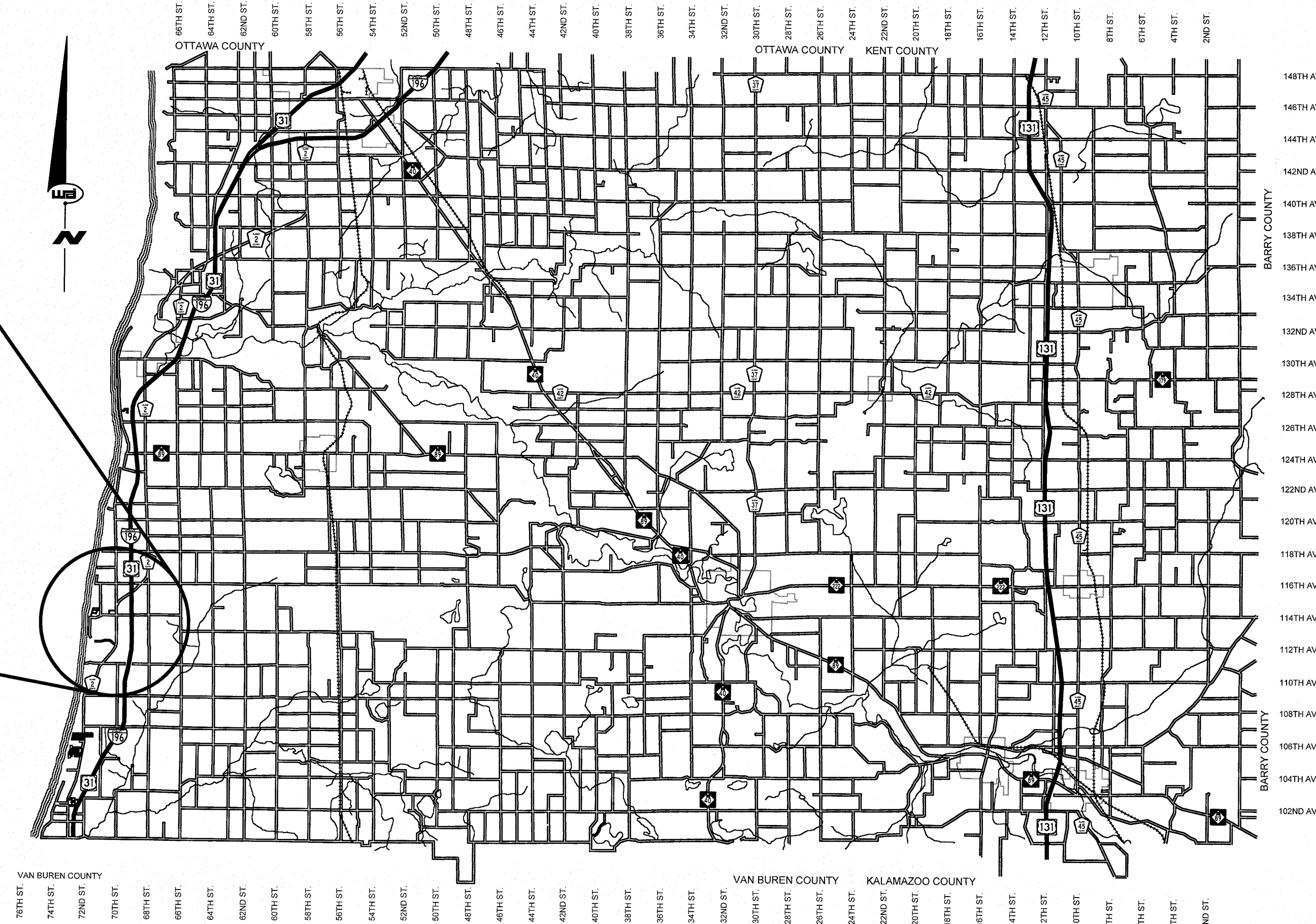
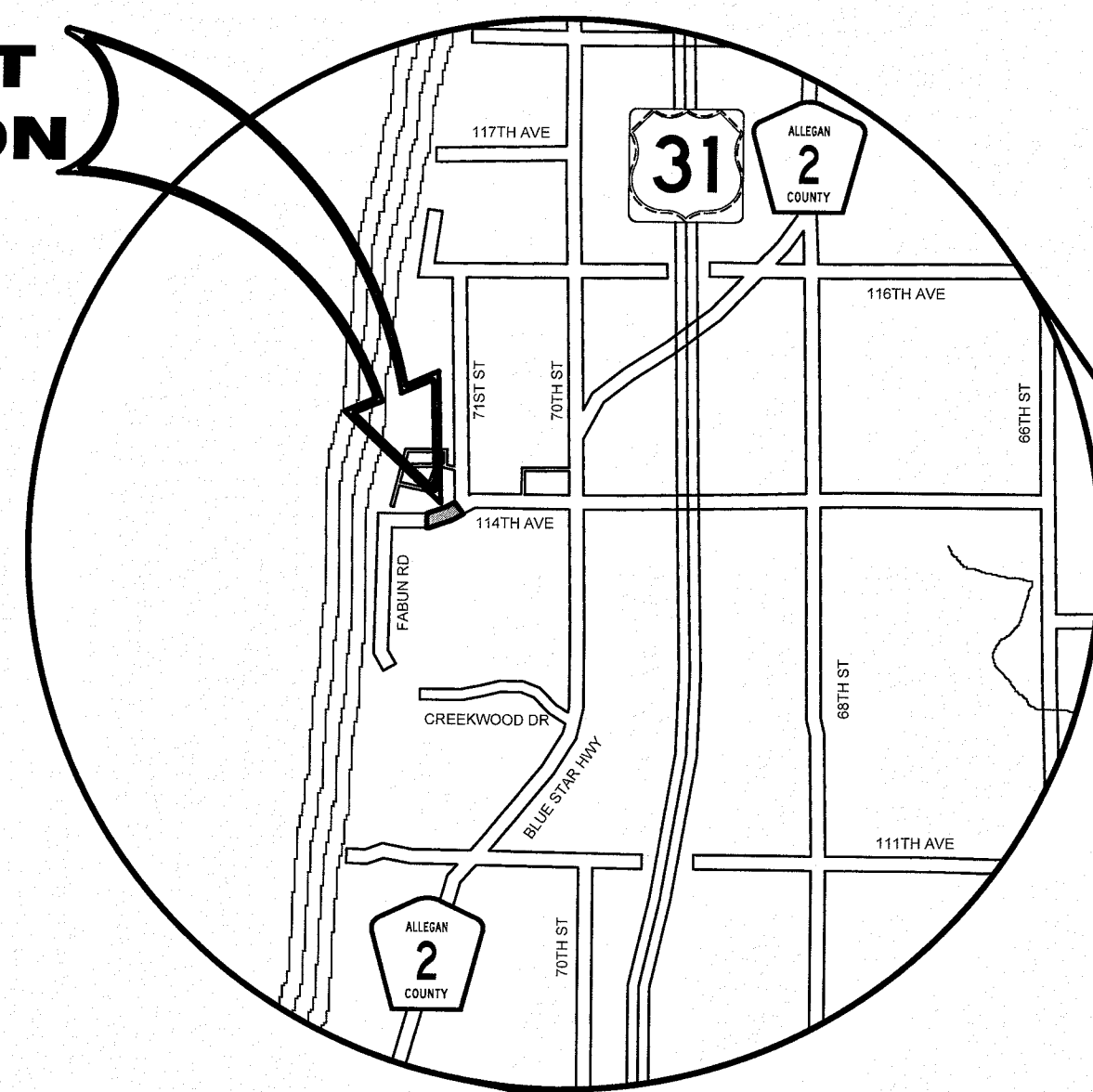
UTILITIES

ELECTRIC	CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 (616) 530-4284 IAN MEREDITH
GAS	MICHIGAN GAS UTILITIES 742 E. ALLEGAN STREET OTSEGO, MI 49078 (269) 605-2188 KELLY BAUER
CABLE/TELEPHONE	COMCAST 27095 OAKMEAD DR. PERRYSBURG, OH 43551 (419) 874-9262 NICK STAMPER
"MISS DIG"	811

INDEX OF PLANS

182025-01	COVER SHEET
182025-02	TYPICAL SECTIONS AND NOTES
182025-03	BOX CULVERT DETAILS
182025-04	PLAN & PROFILE - STA. 12+00 TO STA. 16+00
182025-05	CONSTRUCTION PHASING
182025-06	CROSS SECTIONS - STA. 10+00 TO STA. 14+00

PROJECT LOCATION



ALLEGAN COUNTY, MICHIGAN
NOT TO SCALE

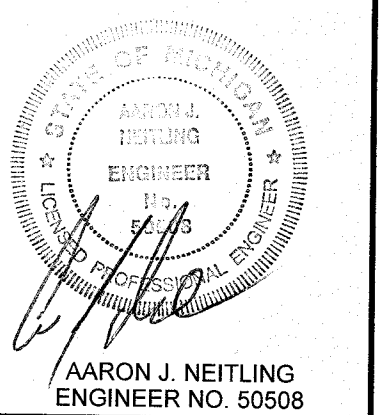
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PROJECT NAME:
**114TH AVENUE
CULVERT
REPLACEMENT
WEST OF 71ST STREET -
GANGES TOWNSHIP
GANGES TOWNSHIP**

**ALLEGAN COUNTY
ROAD COMMISSION**
1308 LINCOLN ROAD
ALLEGAN, MI 49010

02 07/03/2018	PAD
FOR BIDDING	
01 05/29/2018	PAD
FOR REVIEW	
00	PAD
PRELIMINARY - NOT FOR CONSTRUCTION	

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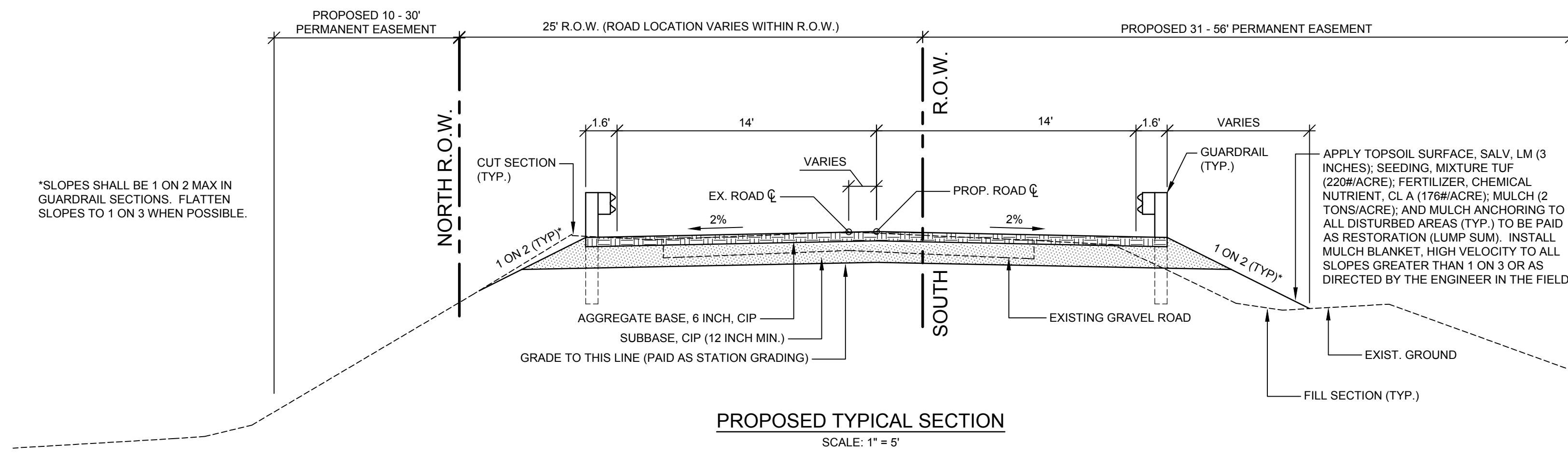
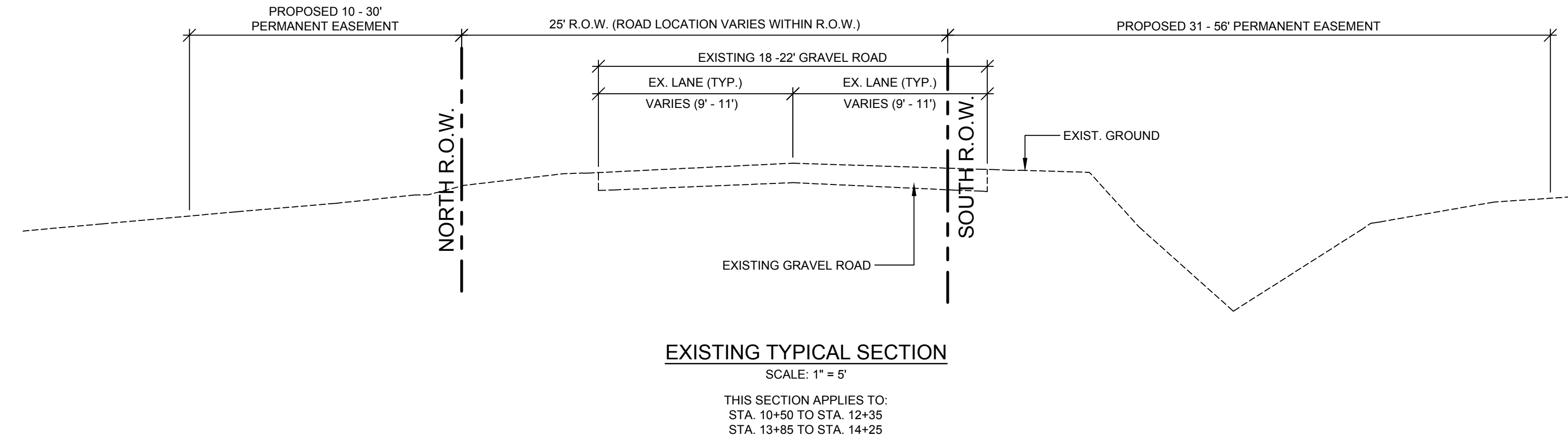
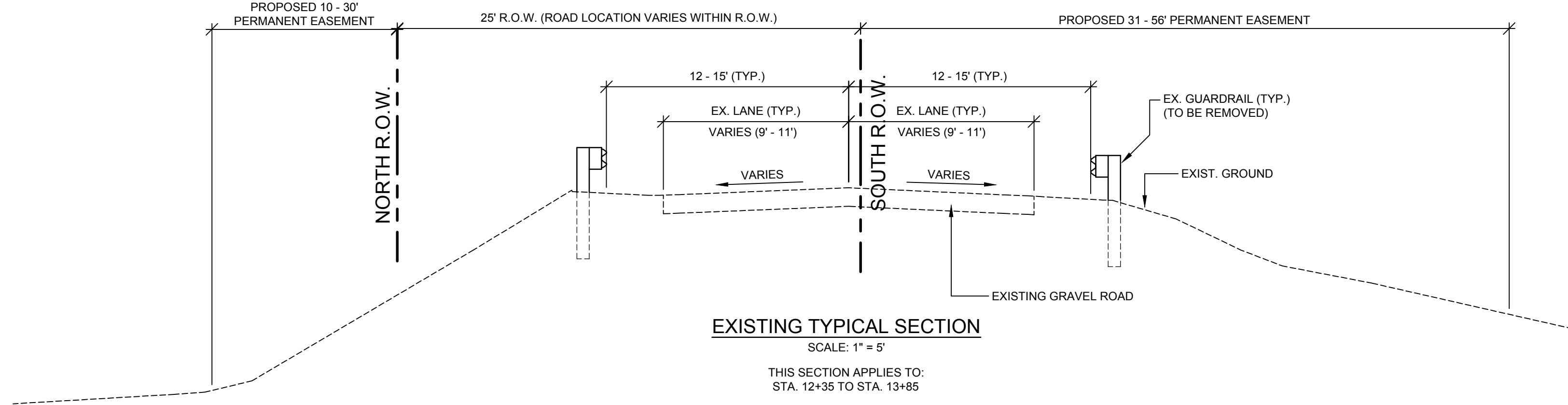
COVER SHEET

JOB No. 182025
182025-01

LH 4894

PROJECT NOTES

- THE "2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.
- THE PLACING OF TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), AS AMENDED.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- THE CONTRACTOR SHALL NOTE THAT THE STATION GRADING PAY ITEM SHALL INCLUDE THE REMOVAL OF ALL FENCES, GUARDRAIL, CULVERTS, CONCRETE FOUNDATIONS, AND MISCELLANEOUS ITEMS AS REQUIRED AND SHALL INCLUDE ALL EARTH EXCAVATION, EMBANKMENT, FENCE RELOCATIONS REGARDLESS OF FENCE TYPE, AND ALL OTHER OPERATIONS NECESSARY TO DEVELOP THE DESIRED CROSS SECTION. ALL TOPSOIL AND OTHER UNSUITABLE MATERIAL LOCATED BENEATH THE PROPOSED ROADWAY SECTION SHALL BE REMOVED TO THE SUBGRADE ELEVATION AS PART OF THE STATION GRADING PAY ITEM. ALL TOPSOIL REMOVED MAY BE STOCKPILED AND REUSED AS TOPSOIL SURFACE, SALV, 3".
- FILL SHALL BE PLACED AND ADEQUATELY KEED INTO STRIPPED AND SCARIFIED SOILS PER THE MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL FILL MATERIAL SHOULD BE AT APPROXIMATELY THE OPTIMUM MOISTURE CONTENT DURING COMPACTION. FURTHERMORE, FILL MATERIAL SHOULD NOT BE FROZEN NOR BE PLACED ON A FROZEN BASE. IT IS RECOMMENDED THAT ALL EARTHWORK AND SITE PREPARATION ACTIVITIES BE CONDUCTED UNDER ADEQUATE SUPERVISION AND PROPERLY CONTROLLED IN THE FIELD BY A GEOTECHNICAL ENGINEERING TESTING FIRM.
- COMPACTION OF ANY FILL BY FLOODING IS NOT ACCEPTABLE. THIS METHOD WILL GENERALLY NOT ACHIEVE THE DESIRED COMPACTION, AND THE LARGE QUANTITIES OF WATER WILL TEND TO SOFTEN THE FOUNDATION SOILS.
- ALL FILL FOR THIS PROJECT MUST BE OBTAINED AND FURNISHED BY THE CONTRACTOR. ALL REQUIRED FILL SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER, OR MDOT CLASS II GRANULAR MATERIAL FROM BORROW. EXCESS FILL SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. NOTE: NO BORROW OR SOIL REMOVAL ARRANGEMENTS HAVE BEEN PREARRANGED FOR THIS PROJECT, AND SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT, AS REQUIRED.
- DRIVE REPLACEMENT SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- THE ITEM OF SUBBASE, CIP WILL BE PAID FOR AT PLAN QUANTITY EXCEPT IN THE CASE OF A DESIGN CHANGE OR DEMONSTRATED ERROR.
- AS PART OF THE PROJECT THE CONTRACTOR WILL COORDINATE WITH THE ALLEGAN COUNTY ROAD COMMISSION TO PRESERVE AND RESET ALL GOVERNMENT CORNERS WITHIN THE PROJECT LIMITS.
- CONTRACTOR SHALL RELOCATE ALL MAILBOXES TO A TEMPORARY CENTRAL LOCATION APPROVED BY THE POSTAL SERVICE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INSTALL A 1" x 3" STAKE WITH THE RESPECTIVE PROPERTY ADDRESS WRITTEN ON IT IN THE FRONT YARD OF EACH RESIDENCE TO ASSIST WITH IDENTIFICATION FOR EMERGENCY VEHICLES. PAYMENT FOR RELOCATION SHALL BE INCLUDED IN THE ITEM OF PROJECT CLEANUP. AT THE COMPLETION OF THE PROJECT SAID MAILBOXES SHALL BE RESET AT THEIR APPROPRIATE LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE TOPSOIL SURFACE, SALV, LM (3 INCHES); SEEDING, MIXTURE TUF (220#/ACRE); AND FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); AND HIGH VELOCITY MULCH BLANKET ON ALL DISTURBED AREAS INCLUDING ADJACENT TO THE CHANNEL TO BE PAID AS RESTORATION (LUMP SUM).
- RIPRAP MUST BE NATURAL OR QUARRIED LIMESTONE AND/OR SOLID PRECAST CONCRETE BLOCKS OF GRADE P2 CONCRETE. NO CRUSHED OR RECYCLED CONCRETE WILL BE ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND SHALL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.
- ADEQUATE DUST CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE VARIOUS ITEMS OF WORK.
- MULCH BLANKET HIGH VELOCITY SHALL BE PLACED ON THE BOTTOM OF ALL DITCHES WHEN THE LONGITUDINAL GRADE IS GREATER THAN OR EQUAL TO 2.00% UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- WHEN FIELD DRAIN TILES ARE ENCOUNTERED IN THE EXISTING DITCHES, THE CONTRACTOR WILL EXTEND THEM AS REQUIRED WITH UNDERDRAIN, SUBGRADE 4" OR 6" AND ADJUST THE DITCH GRADES AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER IN THE FIELD. THE COST OF THE CONNECTION WILL BE INCLUDED IN THE NEW PIPE ITEM. IF THE ENGINEER DETERMINES THAT AN EXISTING TILE IS TOO LONG THE CONTRACTOR WILL REMOVE THE TILE AS NECESSARY, TO BE INCLUDED IN THE ITEM OF STATION GRADING. DRAINS THAT ARE ENCOUNTERED AND IDENTIFIED AS SOMETHING OTHER THAN A FIELD DRAIN SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.
- MATERIAL FOR AGGREGATE BASE SHALL BE MDOT 21AA GRAVEL, 21AA SLAG, 21AA LIMESTONE OR 21AA CRUSHED CONCRETE.
- DATUM REFERS TO NAVD88 DATUM.
- ALL SCALES FOR DRAWINGS AND DETAILS ARE BASED ON 24"x36" PRINTED PLANS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- THE ALLEGAN COUNTY ROAD COMMISSION WILL INSTALL ALL NECESSARY PERMANENT SIGNS BEFORE OPENING THE ROAD TO TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE ROAD COMMISSION WHEN PERMANENT SIGNS CAN BE PLACED.
- PROPERTY OWNER'S NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.



MISCELLANEOUS QUANTITIES

ITEM	QTY.
Subgrade Undercutting, Type II	500 Cyd
Geotextile, Stabilization	500 Syd
Aggregate, 6A	20 Ton
Approach, CI II	10 Ton
Soil Erosion Permit and Maintenance	1 LS
Seeding, Mixture CR	10 Lb
Erosion Control, Silt Fence	200 Ft

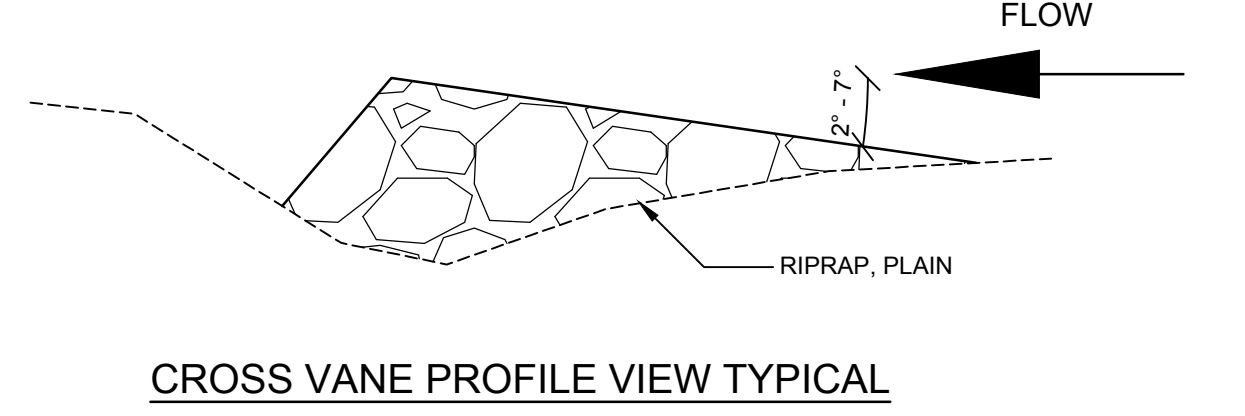
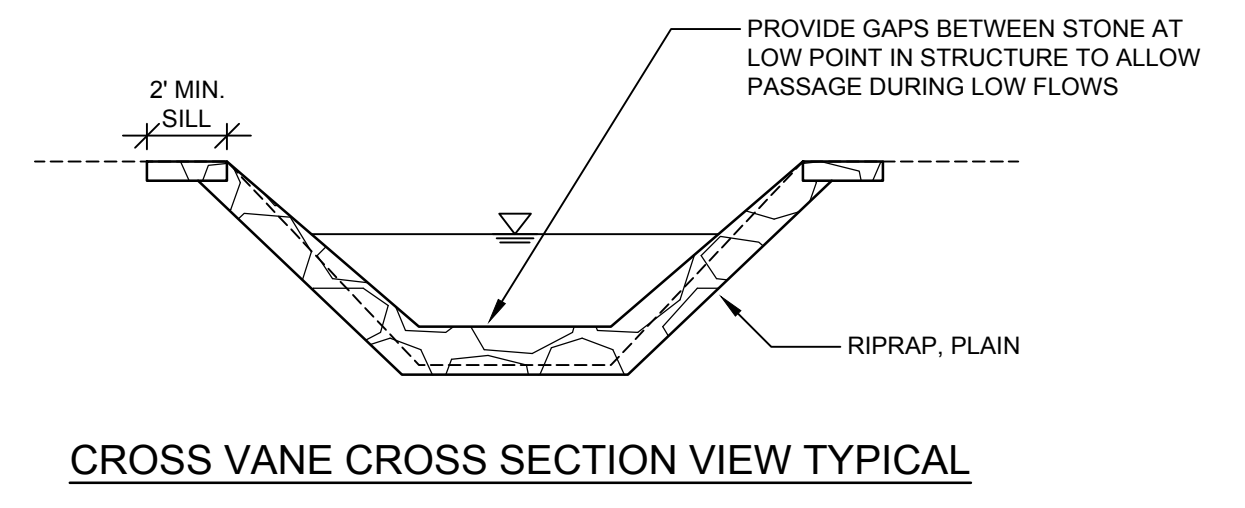
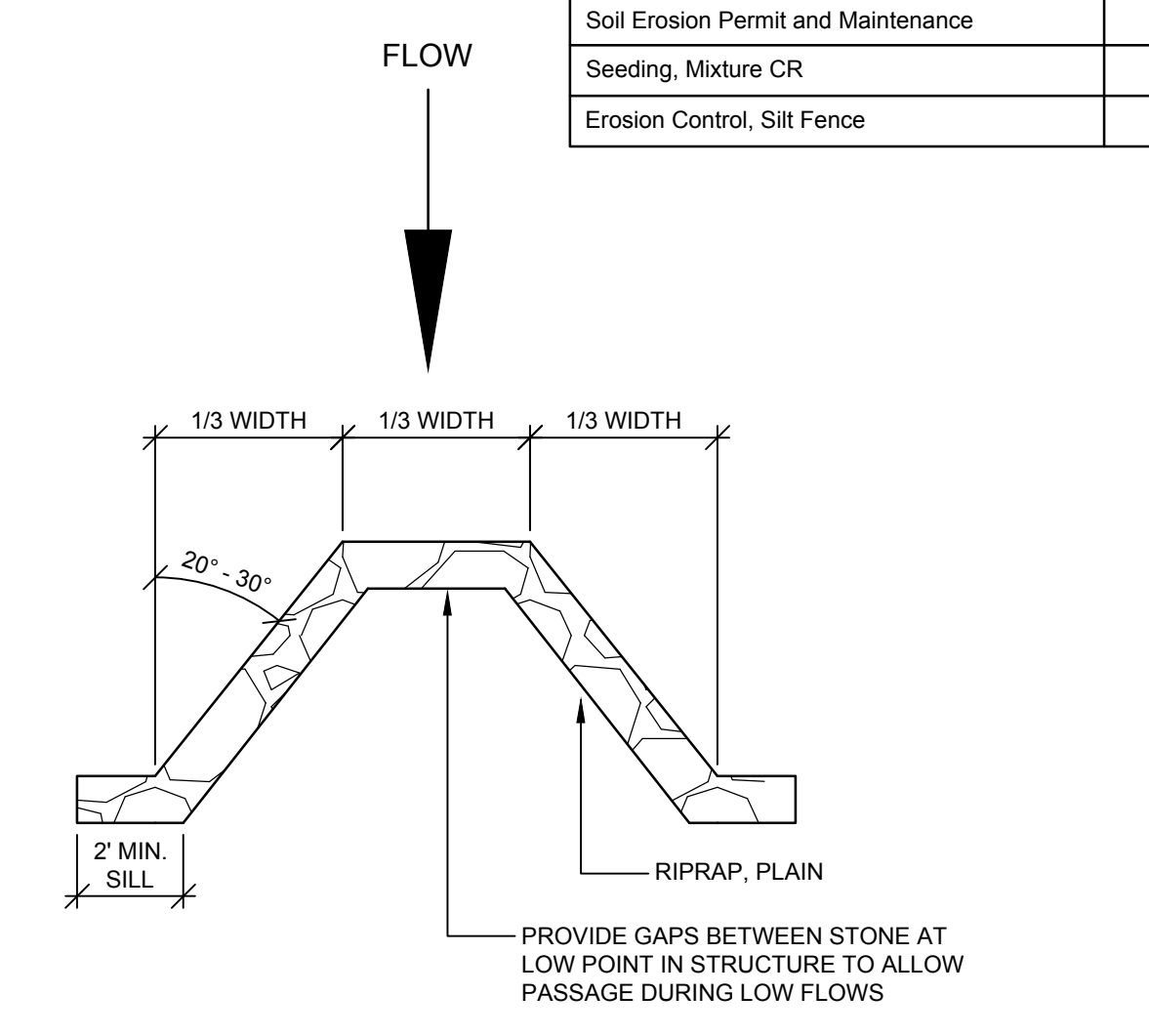
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LEGEND

	CABLE
	ELECTRIC LINE
	ELECTRIC LINE (OVERHEAD)
	FIBER OPTIC LINE
	GAS LINE
	TELEPHONE LINE
	FENCE
	FORCEMAIN
	GUARDRAIL
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	CENTER LINE
	EXISTING TREE LINE
	EXISTING DITCH LINE
	EASEMENT LINE/GRADING PERMIT
	GRADING LIMITS/LIMITS OF DISTURBANCE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	SECTION LINE
	TO BE ABANDONED

	ANTENNA		PAVEMENT/SOIL BORING
	CATCH BASIN		PROPOSED HYDRANT
	CABLE RISER BOX		PROPOSED GATE VALVE & BOX
	CLEAN OUT		PROPOSED GATE VALVE & VAULT
	CURB INLET		PROPOSED REDUCER
	ELECTRIC MANHOLE		PROPOSED SANITARY MANHOLE
	FIRE HYDRANT		PROPOSED STORM MANHOLE
	FOUND IRON PIPE		STORM MANHOLE
	GAS VALVE		TELEPHONE MANHOLE
	GUY ANCHOR		TELEPHONE RISER BOX
	LIGHT POLE		TURNING POINT/TRVERSE
	MAILBOX		UTILITY POLE
	MONITORING WELL		VAULT
	POST		WATER ELEVATION
	SATELLITE DISH		WATER MANHOLE
	SANITARY MANHOLE		WATER METER
	SECTION CORNER		WATER VALVE
	SIGN		WATER SPIGOT
			WELL

TREE DESIGNATORS

	BUSH		STUMP
	CONIFEROUS TREE		DECIDUOUS TREE
	CONIFEROUS TREE TO BE REMOVED		DECIDUOUS TREE TO BE REMOVED

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**ALLEGAN COUNTY
ROAD COMMISSION**
1308 LINCOLN ROAD
ALLEGAN, MI 49010

02/07/2018 PAD FOR BIDDING
01/06/2018 PAD FOR REVIEW

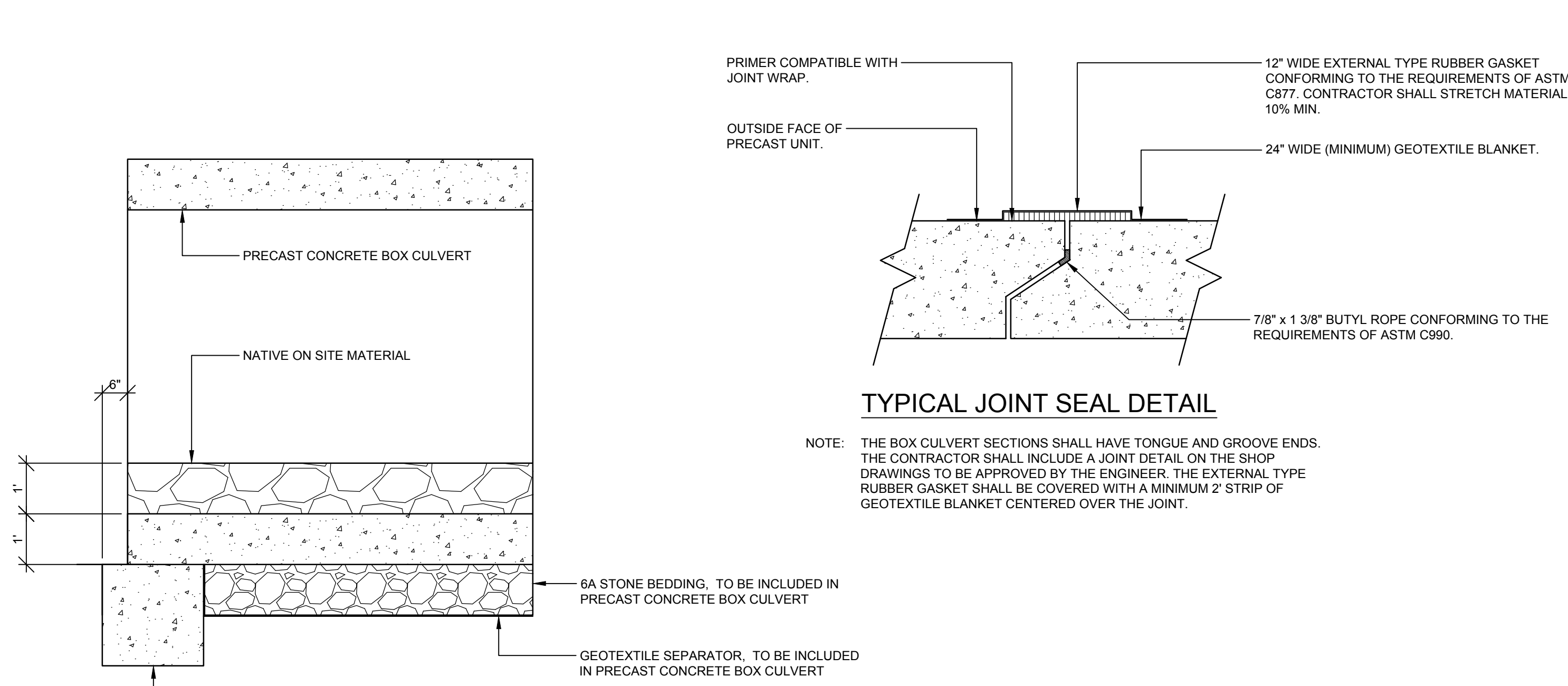
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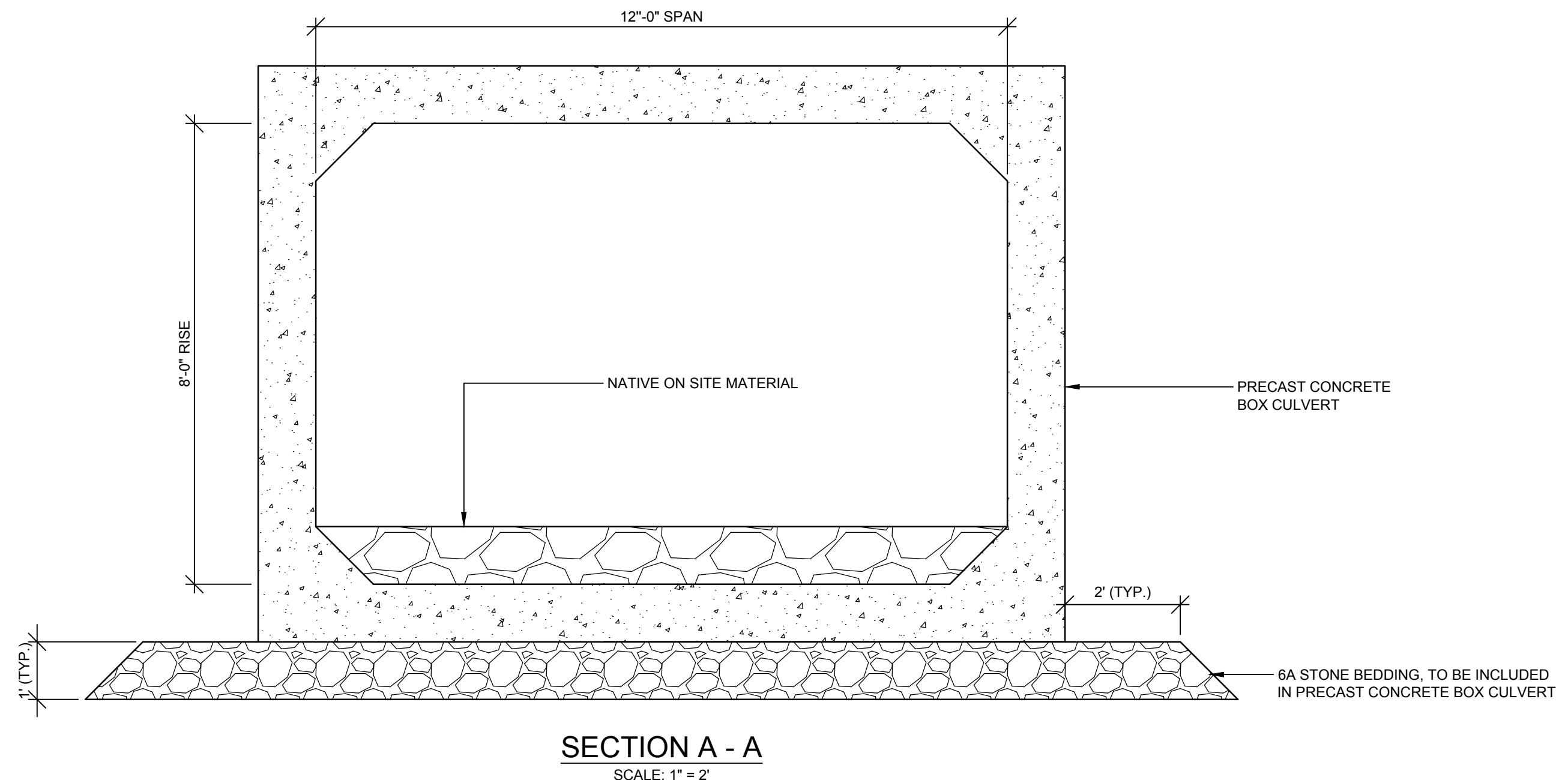
DATE: APRIL 2018
SCALE:

TYPICAL SECTIONS AND NOTES

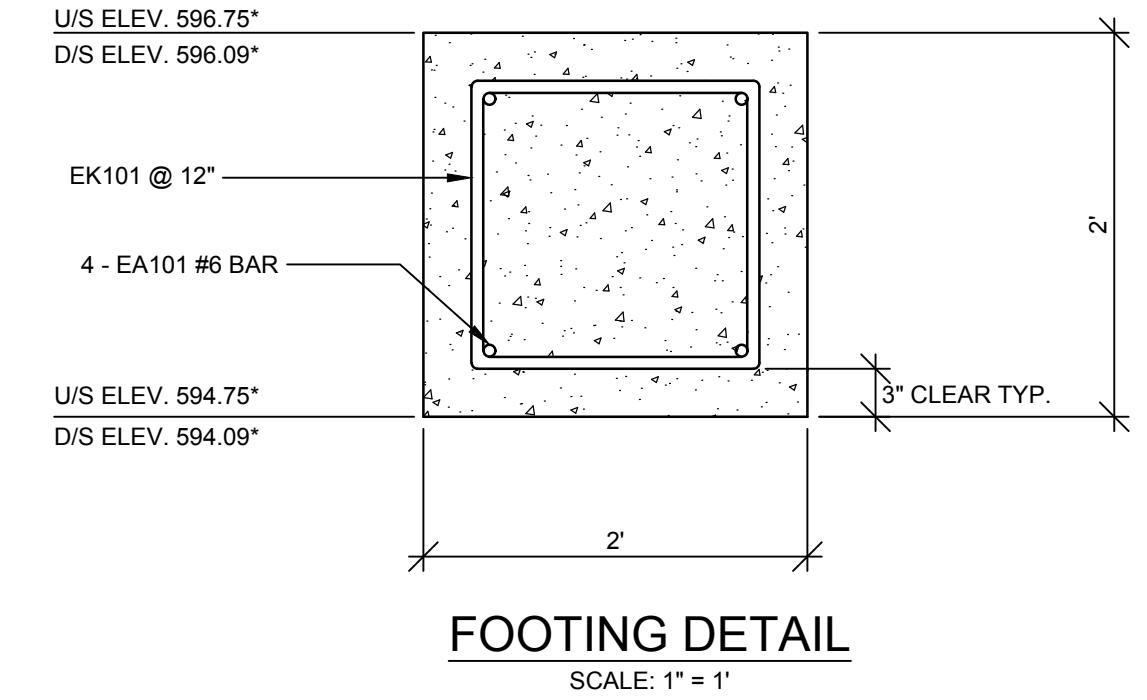
JOB No. 182025
182025-02



CULVERT CONTROL DATA				
REF. LINE/PT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
A-1	INSIDE CORNER @ INLET	377173.60	12619134.01	597.75
A-2	INSIDE EDGE @ ROAD	377210.44	12619107.02	597.40
A-3	INSIDE CORNER @ OUTLET	377244.58	12619082.00	597.09
B-1	INSIDE CORNER @ INLET	377180.69	12619143.69	597.75
B-2	INSIDE EDGE @ ROAD	377180.69	12619118.34	597.43
B-3	INSIDE CORNER @ OUTLET	377251.68	12619091.68	597.09

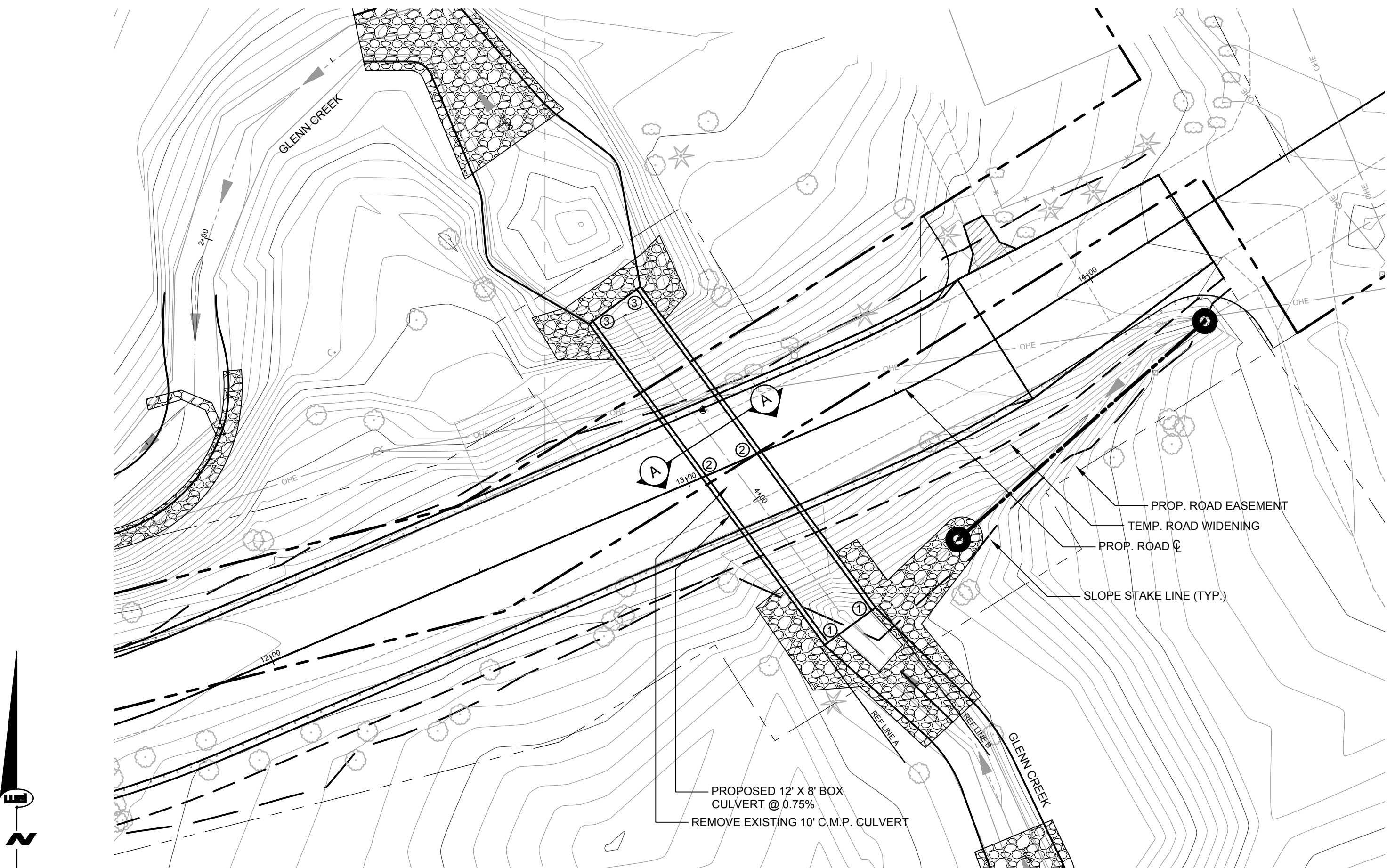
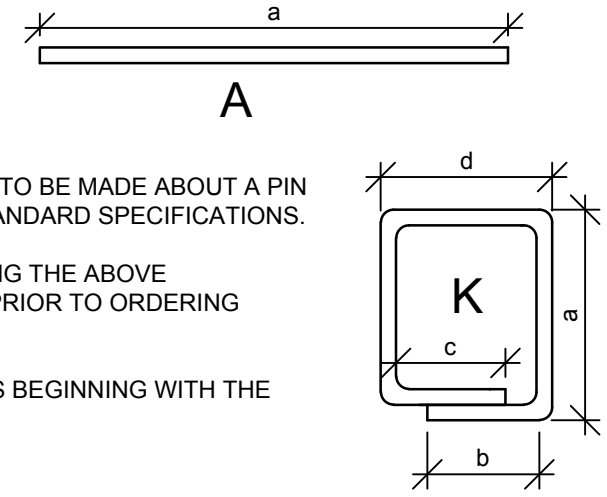


STEEL REINFORCEMENT SCHEDULE									
BAR	a	b	c	d	SIZE	LENGTH	NO. REQ'D	TOTAL WEIGHT	
EA101	17'-6"				#6	17'-6"	8	210	
EK101	1'-6"	1'-0"	1'-0"	1'-6"	#6	6'-6"	36	351	
							TOTAL	561 LBS	

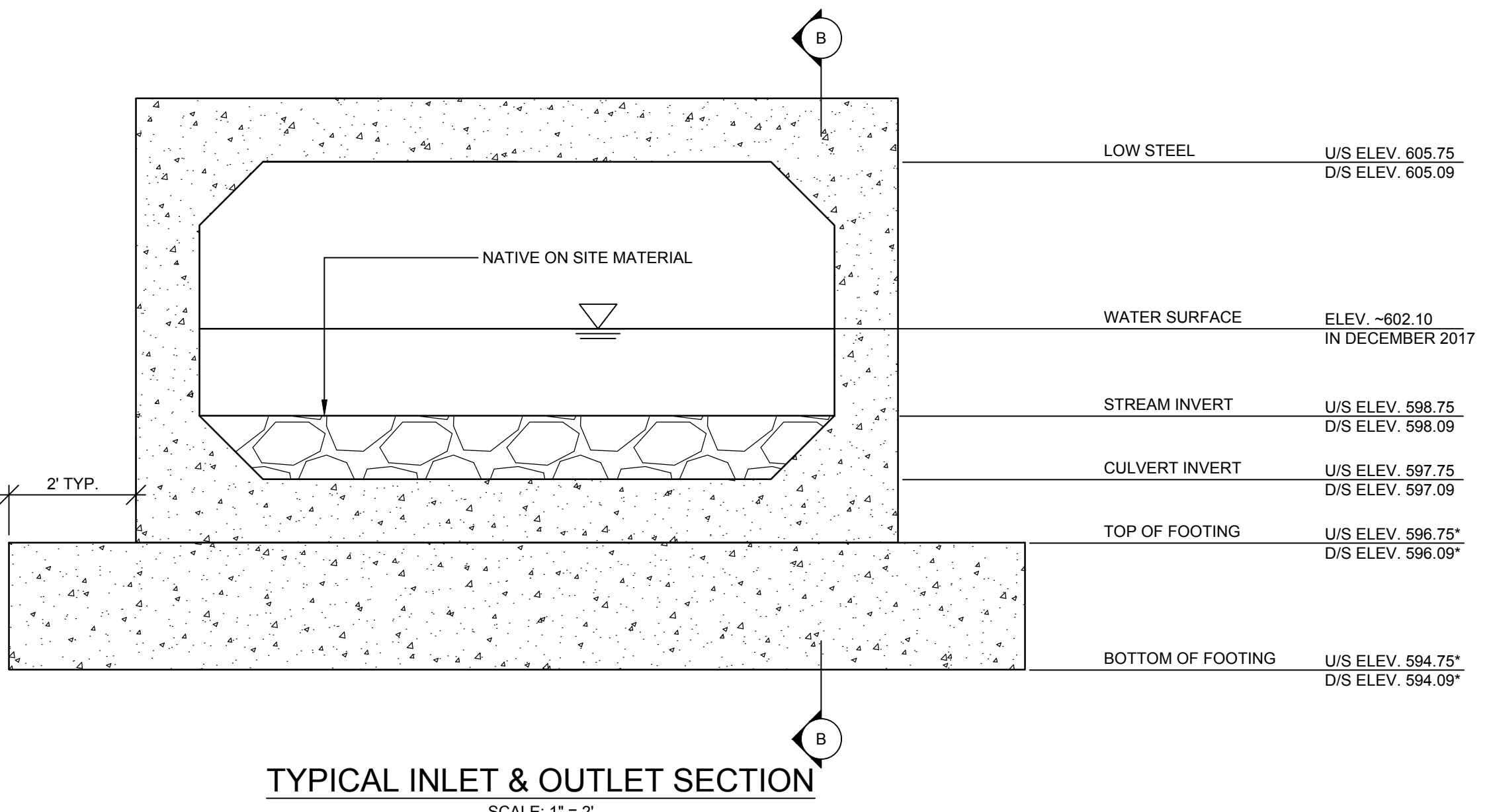


NOTES

ALL RIGHT ANGLE BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATIONS.
 THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE ABOVE REINFORCING STEEL QUANTITIES AND LENGTHS PRIOR TO ORDERING DELIVERY OF STEEL.
 STEEL REINFORCEMENT WITH BAR DESIGNATIONS BEGINNING WITH THE LETTER "E" SHALL BE EPOXY COATED.



INSTALL RIPRAP, HEAVY IN ALL FOUR QUADRANTS AND CULVERT INLET AND OUTLET AS DIRECTED BY THE ENGINEER IN THE FIELD.
 INSTALL SILT FENCE IN ALL FOUR QUADRANTS AND ALONG ANY CHANNEL DISTURBANCE AS DIRECTED BY THE ENGINEER IN THE FIELD.
 INSTALL MULCH BLANKETS ON ALL DISTURBED AREAS NOT TO BE PAVED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 CONTRACTOR SHALL NOTIFY ENGINEER A MINIMUM OF 2 WORKING DAYS PRIOR TO PLACING THE PRECAST CONCRETE BOX CULVERT SO THAT A VISUAL INSPECTION MAY OCCUR. ALL UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH CLASS II GRANULAR MATERIAL AS NECESSARY



*NOTE: INVERT ELEVATION OF BOX CULVERT SHALL GOVERN. TOP OF FOOTING & BOTTOM OF FOOTING ELEVATIONS MAY VARY BASED UPON THE MANUFACTURER'S CULVERT DESIGN. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE FOOTINGS ACCORDINGLY.

QUANTITIES THIS SHEET

ITEM	QTY.
Clearing	1 LS
Station Grading	1 LS
Structure, Rem	1 LS
Subbase, CIP	510 Cyd
Topsoil Surface, Salv, LM	105 Cyd
Drain Shaping	300 Ft
Precast Concrete Box Culvert, 12' x 8'	88 Ft
Sewer, CI A, 24 inch, Tr Det A	75 Ft
Dr Structure Cover, Type B	1 Ea
Dr Structure Cover, Type E	1 Ea
Dr Structure, 48 inch dia	2 Ea
Aggregate Base, 6 inch	1,585 Syd
Approach, CI II	30 Ton
Guardrail, Remove and Replace	660 Ft
Restoration	1 LS
Seeding, Mixture CR	20 Lb
Riprap, Heavy	200 Syd
Cross Vane	2 Ea
Mulch Blanket, High Velocity	385 Syd
Erosion Control, Silt Fence	1,125 Ft
Project Cleanup	1 LS

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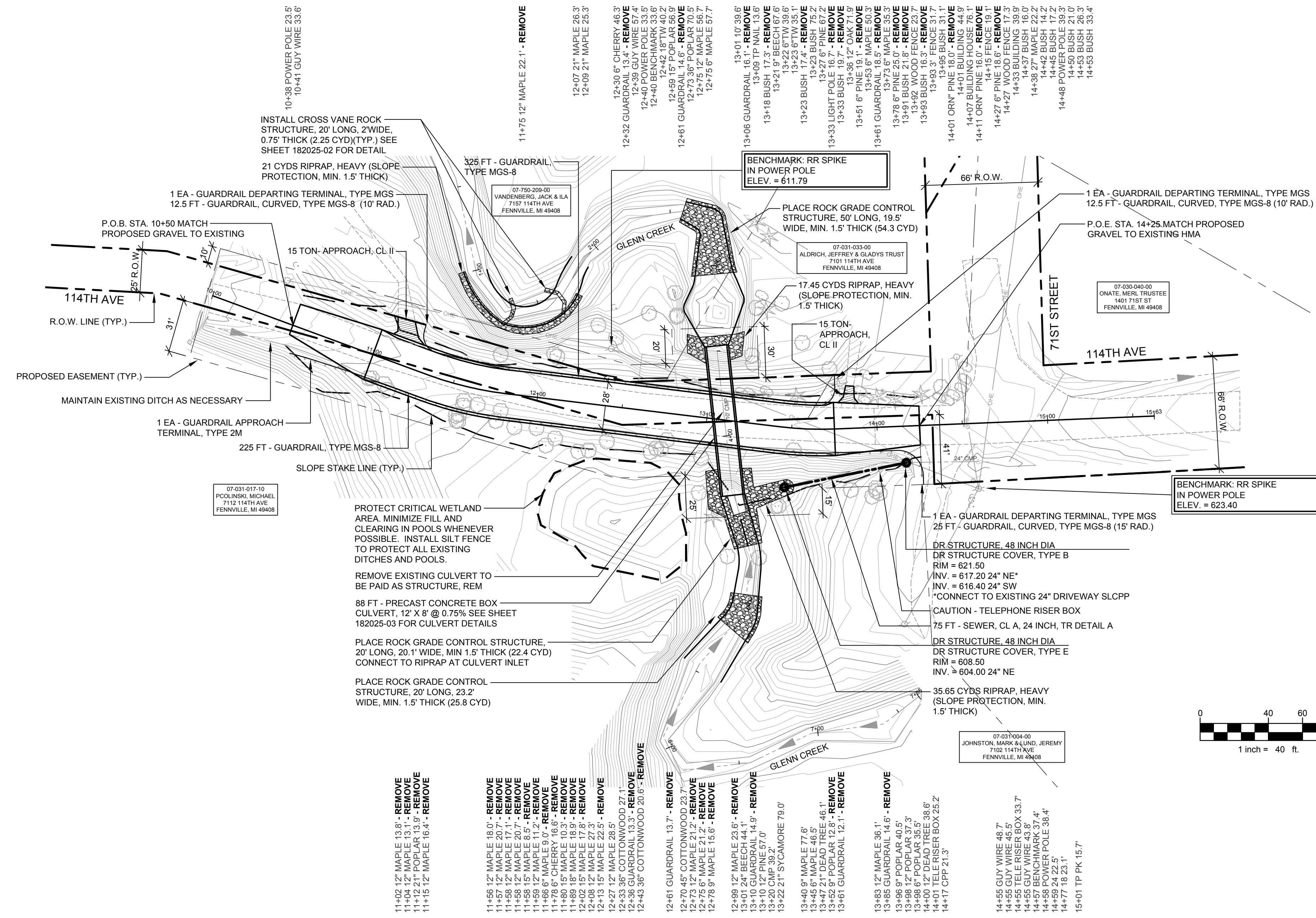
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AARON J. NEITLING
ENGINEER NO. 50508

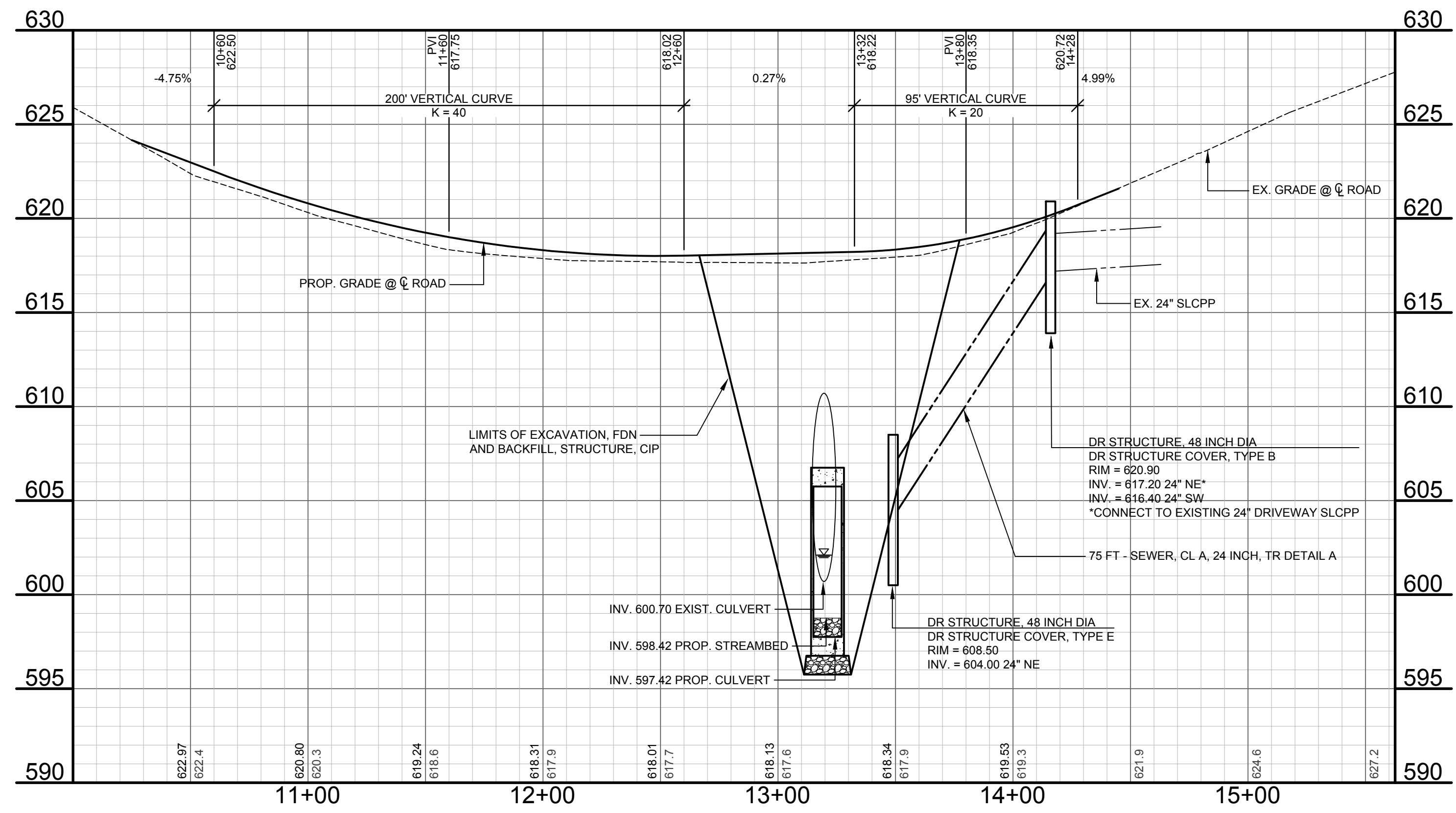
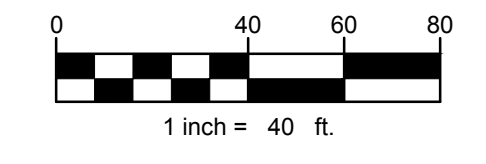
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LEGEND

REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II A DEPTH OF 6\", AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.



Alignment - 114th Ave
SCALE: 1\"/>

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QUANTITIES THIS SHEET	
ITEM	QTY.
Sign, Type A, Temp, Modified	12 St
Sign, Type B, Temp, Modified	476 St
Plastic Drum, High Intensity, Ltd, Modified	25 Ea
Barricade Type III, High Intensity, Dbl Sided, Ltd, Modified	6 Ea
Concrete Barrier, Temporary	200 Ft
Temporary Traffic Signal	2 Ea
Temporary Road Widening	1 LS

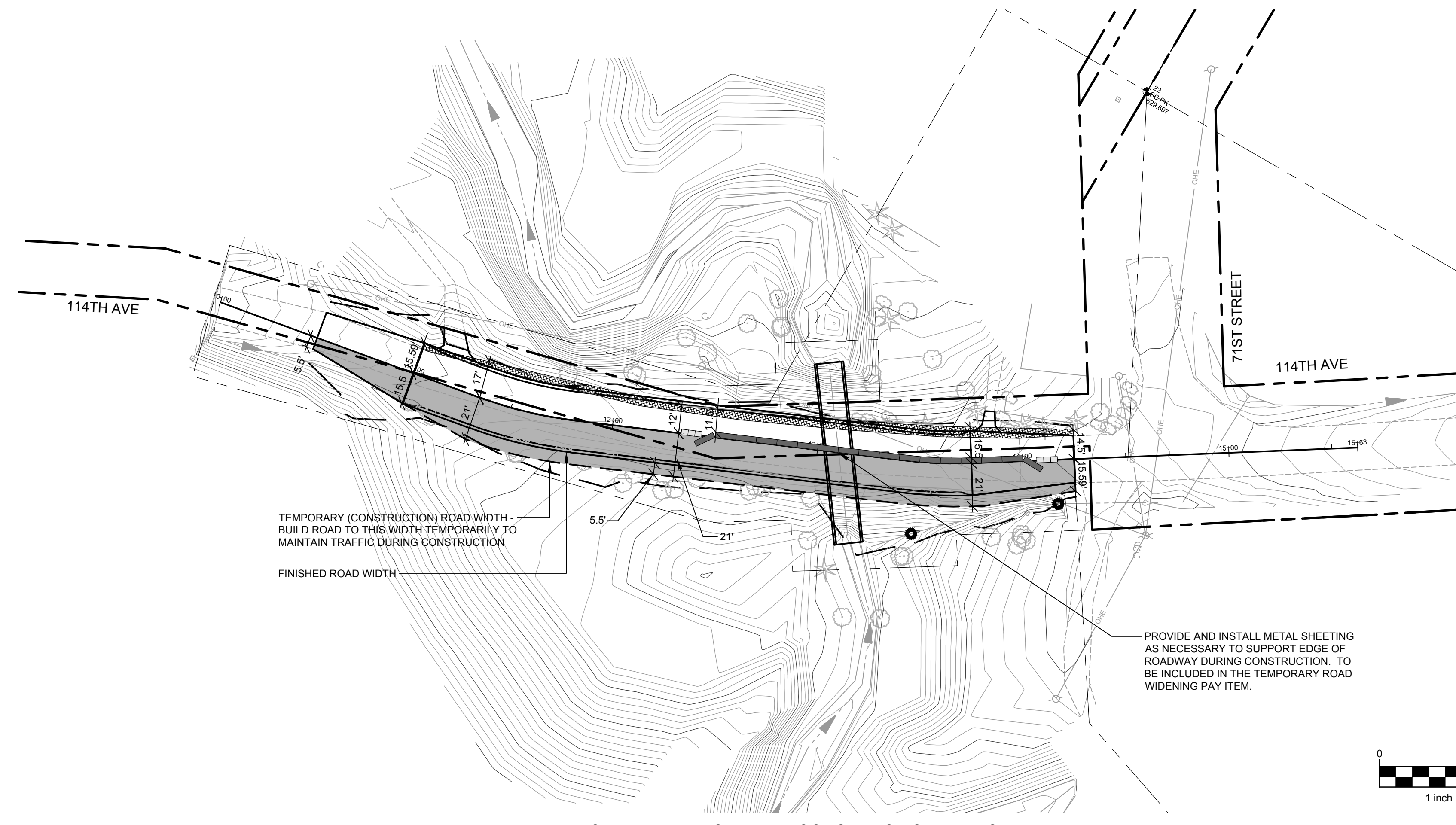
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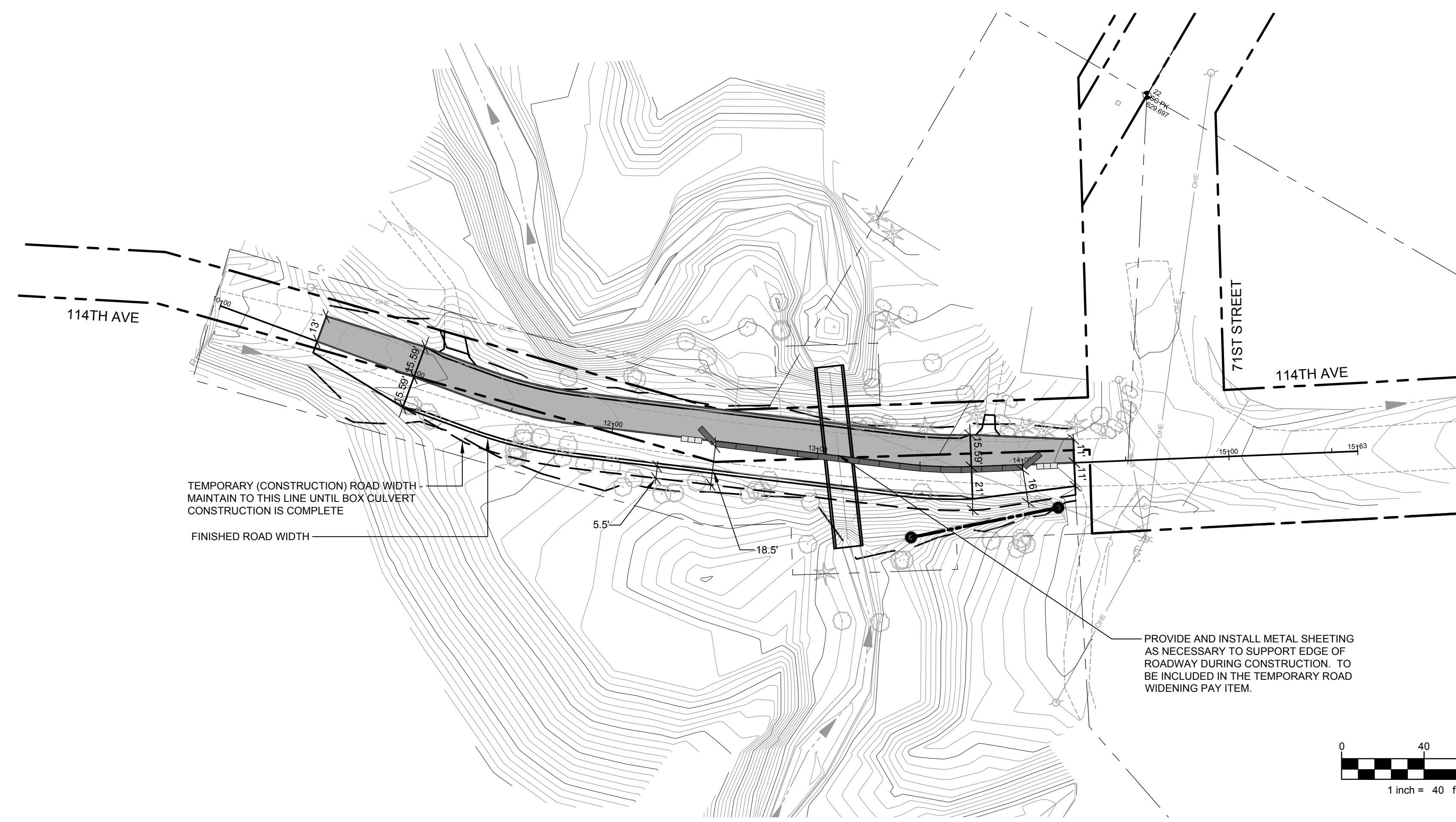
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ROADWAY AND CULVERT CONSTRUCTION - PHASE 1



ROADWAY AND CULVERT CONSTRUCTION - PHASE 2

AARON J. NEITLING
ENGINEER NO. 50508

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CONSTRUCTION PHASING

JOB No. 182025
182025-05



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02/07/2018 PAD
FOR BIDDING

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PRELIMINARY - NOT FOR
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REVISIONS
1. 02/07/2018: 114th Avenue Culvert Replacement
2. 01/06/2018: 114th Avenue Culvert Replacement
3. 02/07/2018: 114th Avenue Culvert Replacement
4. 01/06/2018: 114th Avenue Culvert Replacement
5. 02/07/2018: 114th Avenue Culvert Replacement
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10. 01/06/2018: 114th Avenue Culvert Replacement

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CROSS SECTIONS -
STA. 10+00 TO STA.
14+00

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