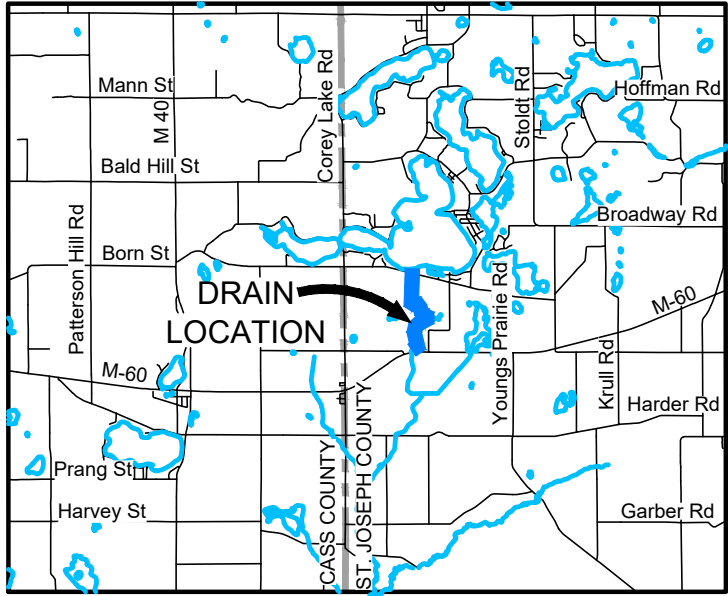




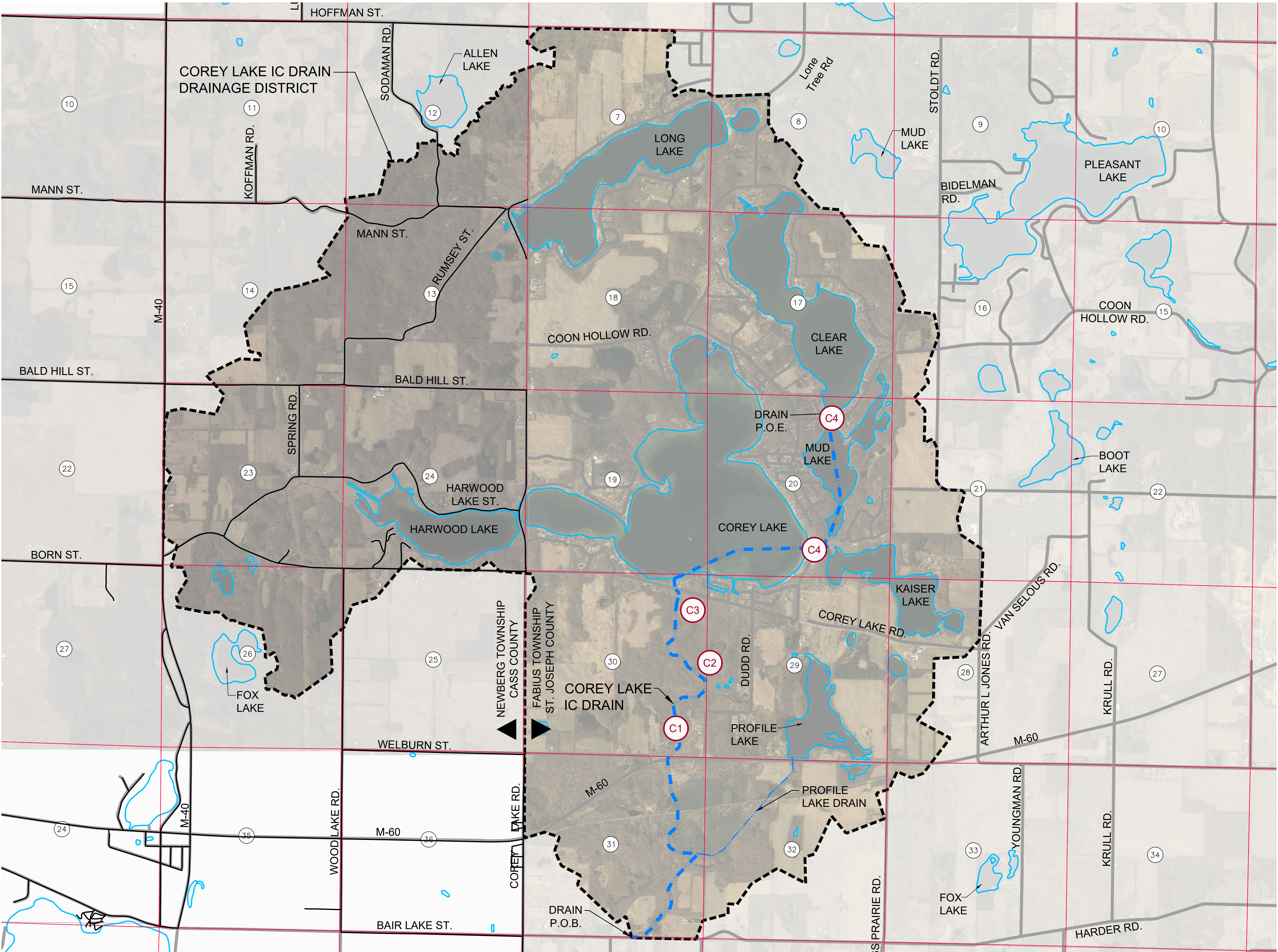
COREY LAKE INTERCOUNTY DRAIN

SECTIONS 11-14 & 23-26
T6S R13W
NEWBERG TOWNSHIP, CASS COUNTY

SECTIONS 7-8, 16-21 & 28-33
T6S R12W
FABIUS TOWNSHIP, ST. JOSEPH COUNTY



VICINITY MAP
NOT TO SCALE



INDEX OF SHEETS		
CS - COVER SHEET		
C1 - PLAN & PROFILE	(STA. 0+00 - 24+50)	
C2 - PLAN & PROFILE	(STA. 24+50 - 51+50)	
C3 - PLAN & PROFILE	(STA. 51+50 - 68+00)	
C4 - PLAN & PROFILE	MUD - CLEAR LAKE	
C5 - DETAIL SHEET	COREY - KAISER LAKE	
C6 - LAKE LEVEL		
STRUCTURE DETAILS		

DISTRICT INFORMATION:		
DRAIN DISTRICT AREA:		
CASS COUNTY:	2,590.9 ACRES (30%)	
ST. JOSEPH COUNTY:	5,973.0 ACRES (70%)	
TOTALS	8,563.9 ACRES	

LEGEND	
	ENCLOSED CHANNEL DRAIN
	OPEN CHANNEL DRAIN
	DRAINAGE DISTRICT BOUNDARY
	SECTION LINE
	TOWNSHIP LINE
	COUNTY LINE
	ROADS
	PROPERTY LINES
	SECTION NUMBERS
	SHEET NUMBERS

MISCELLANEOUS QUANTITIES:	
MOBILIZATION (10% MAX.)	1 LS
SESC MEASURES	1 LS
UTILITY COORDINATION	1 LS
SITE RESTORATION	1 LS



3 WORKING DAYS
BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171

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2121 3 Mile Rd. NW
Walker, MI 49544
Ph: 616-301-7888
www.LREI.com

LRE
ENGINEERS & SURVEYORS

REVISIONS:	
NO.	DATE
1.	11/27/2019
2.	04/23/2020
3.	09/19/2020

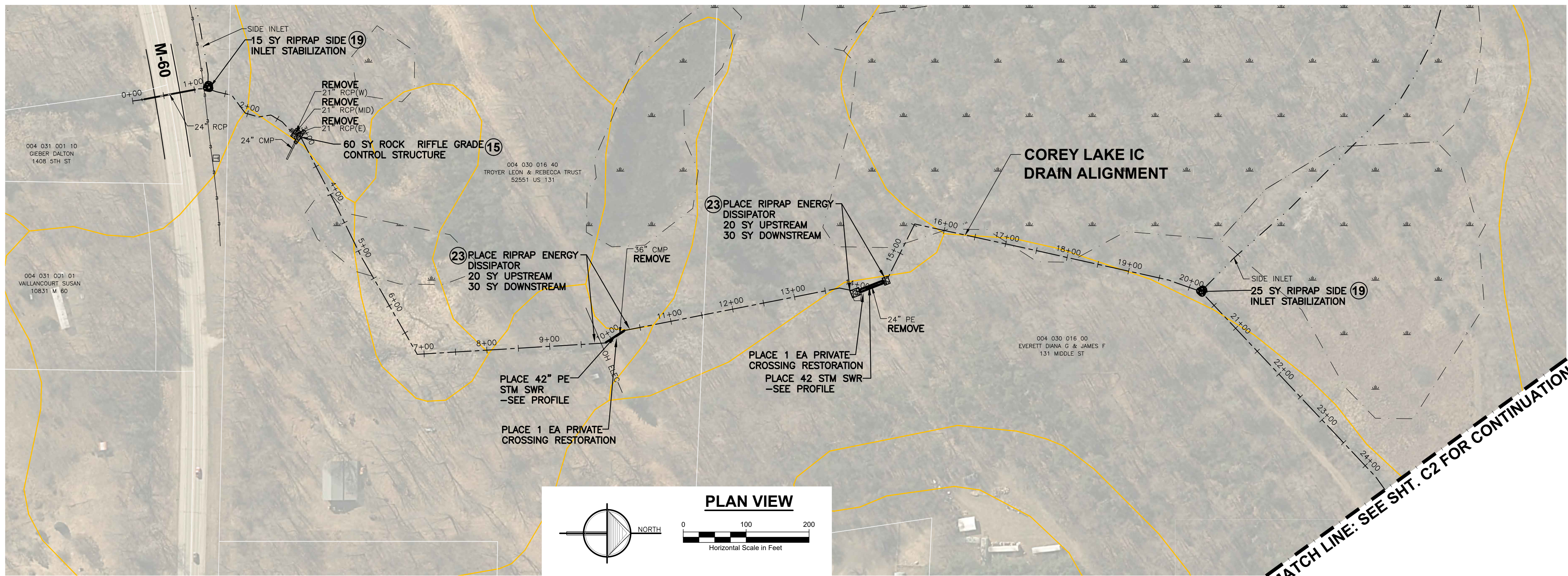
CLIENT:	COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
PROJECT:	INDARD 525 W. ALLEGAN STREET, LANSING, MICHIGAN 48203
PROJECT:	COREY LAKE INTERCOUNTY DRAIN
PROJECT:	CASS AND ST. JOSEPH COUNTIES, MICHIGAN

PROJECT NUMBER: 19078	
DATE	11/2019
SURVEYED BY: GFL-ADK	06/2022
DESIGNED BY: AWS	11/2019
DRAFTED BY: RAG	03/2025
QA/QC: DJF	

COVER SHEET

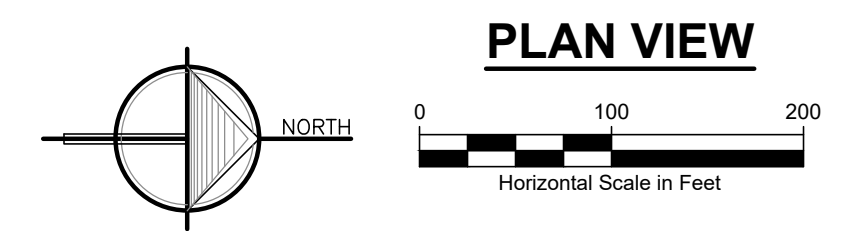
SHEET NUMBER

CS



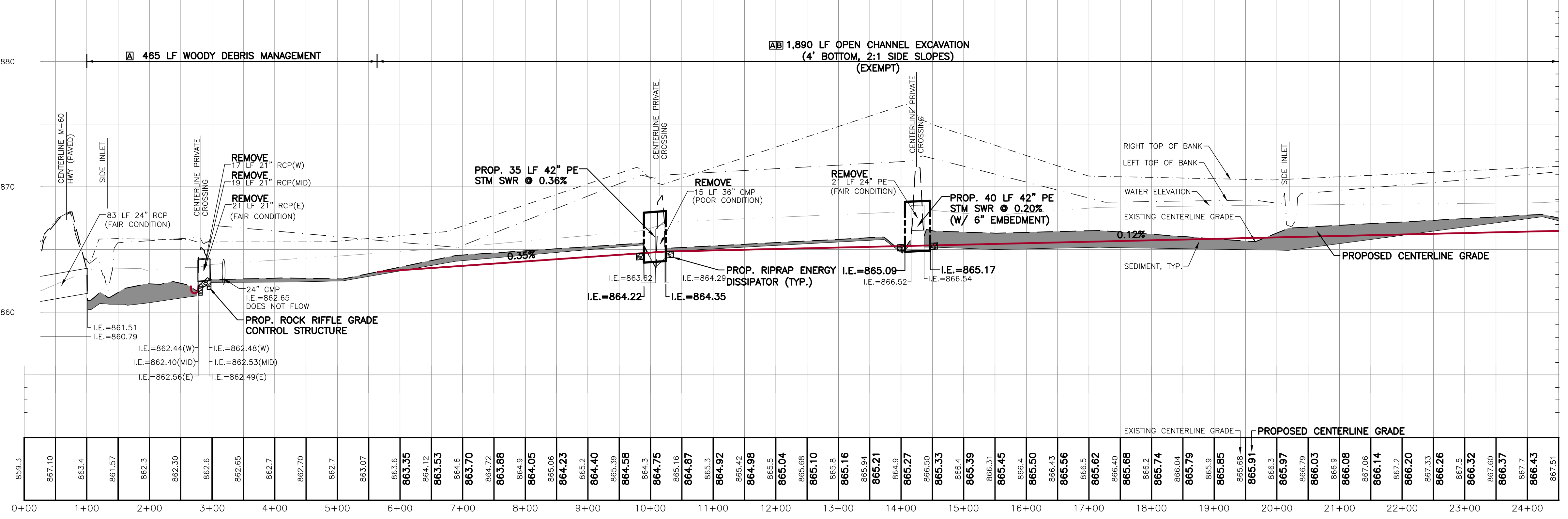
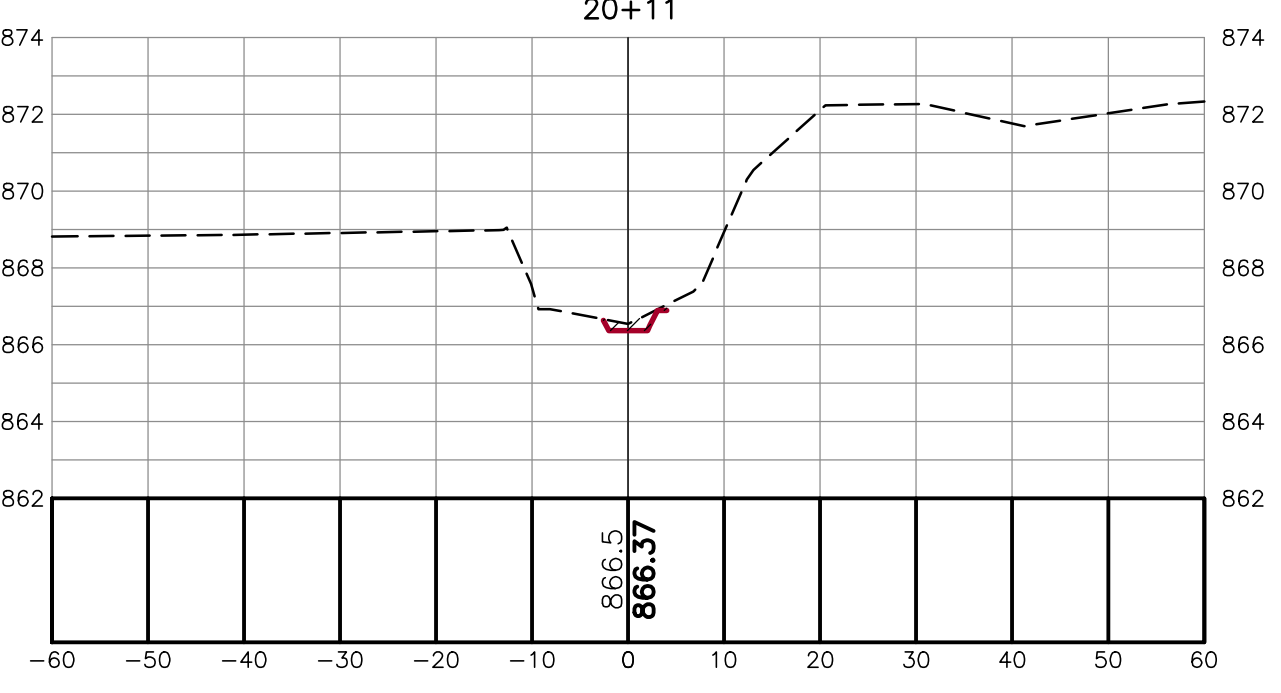
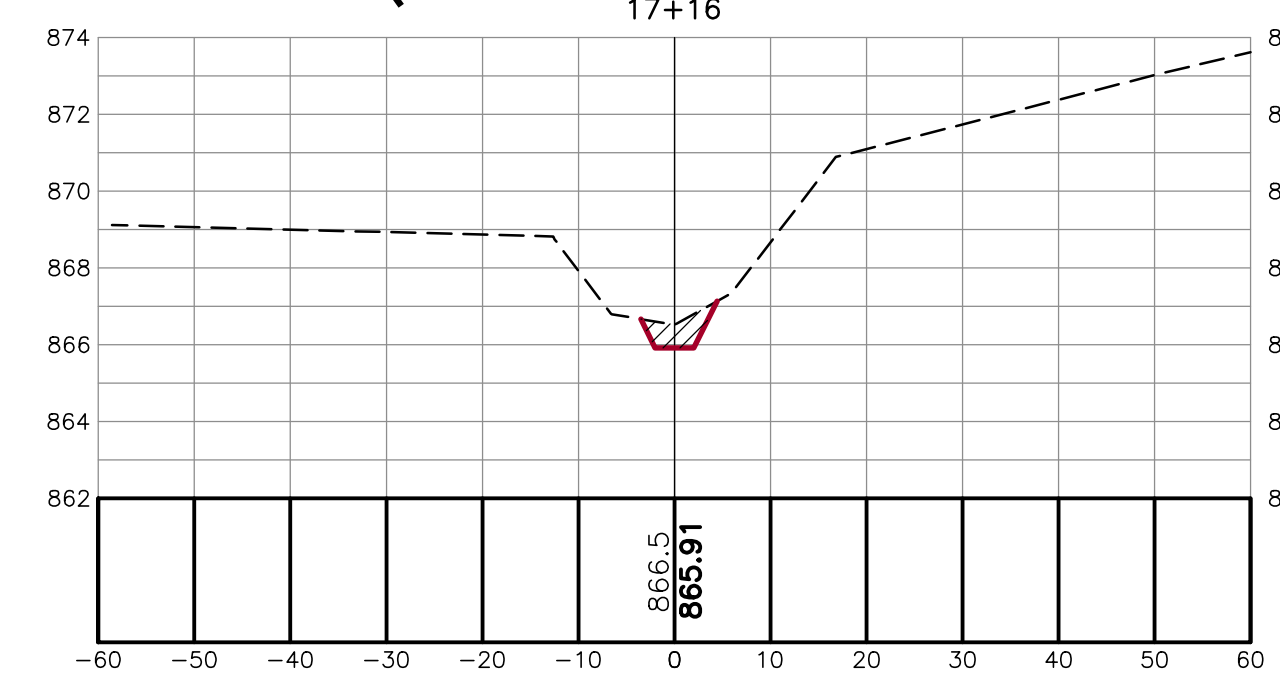
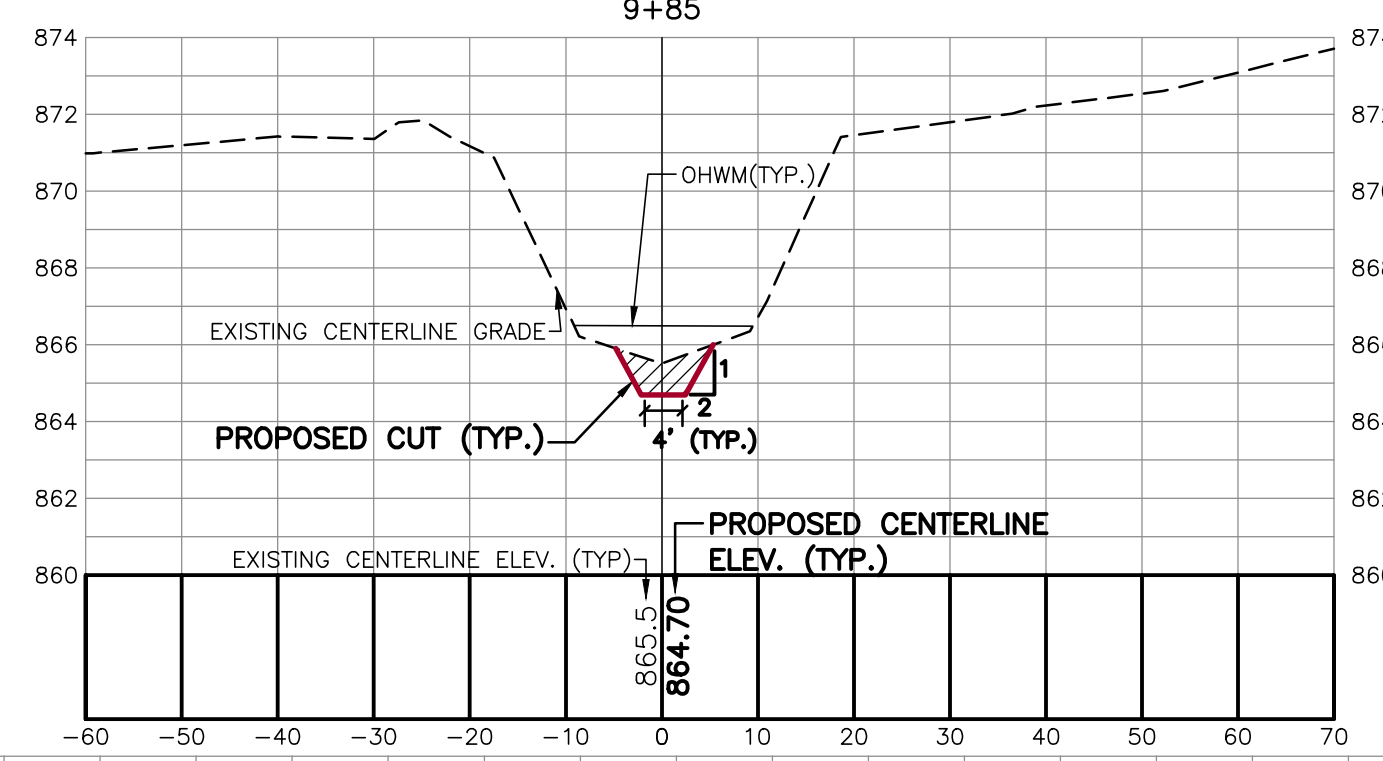
- NOTES:**
- CONTRACTOR TO FIELD VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND MUST NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - PROPOSED EARTH CHANGE SHALL BE LIMITED TO EASEMENT AREA
 - CONTRACTOR SHALL USE CRANE MATS WHILE WORKING IN WETLANDS IDENTIFIED IN THE USFWS NWI TO REDUCE DISTURBANCE.
 - MULCH BLANKET BANKS AS DIRECTED BY ENGINEER.
 - IF DRAIN IS ACCESSED ACROSS PROPERTY OUTSIDE OF DRAIN EASEMENT, A LANDOWNER'S AGREEMENT FORM MUST BE EXECUTED.
 - QUANTITIES WILL NOT BE PAID ABOVE CONTRACT AMOUNT UNLESS APPROVED BY ENGINEER.
 - CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE AND FEDERAL LAWS INCLUDING CONDITIONS OF EGLE PERMIT #: WRP040908V1.0
 - REMOVE, SALVAGE AND REPAIR FENCES, STRUCTURES AND OTHER ITEMS THAT INTERFERE WITH CONSTRUCTION, PAID FOR AS 1 LS SITE RESTORATION.
 - CONTRACTOR TO DISPOSE OF REMOVED CULVERTS.
 - DRAINAGE EASEMENT: 66', 33' EACH SIDE OF DRAIN CENTERLINE UNLESS SHOWN OTHERWISE.

- LEGEND**
- WETLAND (USFWS NATIONAL WETLAND INVENTORY)
 - SOIL TYPE (USDA NRCS WEBSOIL SURVEY)



CROSS SECTIONS
SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

- MISCELLANEOUS QUANTITIES:**
- M-60 CULVERT CLEANOUT 1 LS
 - OPEN CHANNEL SEEDING 1,890 LF
 - MULCH BLANKET 750 SY



- LEGEND**
- BENCHMARK
 - WELL
 - MONUMENT
 - FOUND IRON STAKE
 - SET IRON STAKE
 - SET WOOD STAKE
 - SIGN
 - RR SIGN
 - GUY POLE
 - GUY ANCHOR
 - UTILITY POLE
 - LIGHT POLE
 - POST
 - SOIL BORING
 - MAILBOX
 - AC UNIT
 - FLAGPOLE
 - FIRE HYDRANT
 - WATER VALVE
 - ELECTRIC TRANSFORMER
 - GAS METER
 - WATER METER
 - TELEPHONE RISER
 - ELECTRIC METER
 - CATCH BASIN
 - ROUND CATCH BASIN
 - UTILITY MANHOLE
 - STORM MANHOLE
 - FLARED END SECTION
 - SANITARY MANHOLE
 - ELECTRIC MANHOLE
 - TELEPHONE MANHOLE
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - WATER UTILITY LINE
 - TELEPHONE UTILITY LINE
 - ELECTRIC UTILITY LINE
 - GAS UTILITY LINE
 - STEAM UTILITY LINE
 - STORM UTILITY LINE
 - SANITARY UTILITY LINE
 - FIBER OPTIC UTILITY LINE
 - OVERHEAD UTILITY LINE
 - LAKE LINE
 - EXISTING CONTOUR

CENTERLINE PROFILE
SCALE: HORIZONTAL: 1" = 100'
VERTICAL: 1" = 5'

NOTE:
ELEVATIONS ARE BASED ON NGVD 29

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LRE
ENGINEERS & SURVEYORS

REVISIONS:	NO.	ISSUED FOR	DATE
	1.	DRAFT REVIEW	11/27/2019
	2.	BIDS & CONSTRUCTION	04/23/2020
	3.	FOR CONSTRUCTION	09/19/2020

CLIENT:

COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
INDARD 528 W. ALLEGAN STREET, LANSING, MICHIGAN 48933

PROJECT:

COREY LAKE INTERCOUNTY DRAIN
CASS AND ST. JOSEPH COUNTIES, MICHIGAN

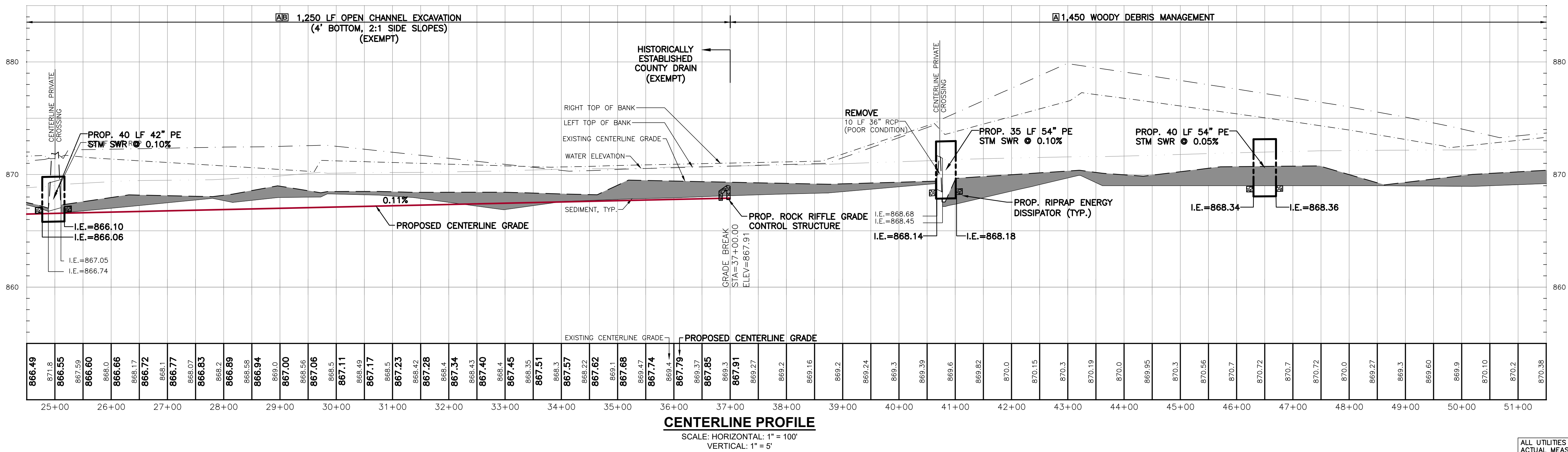
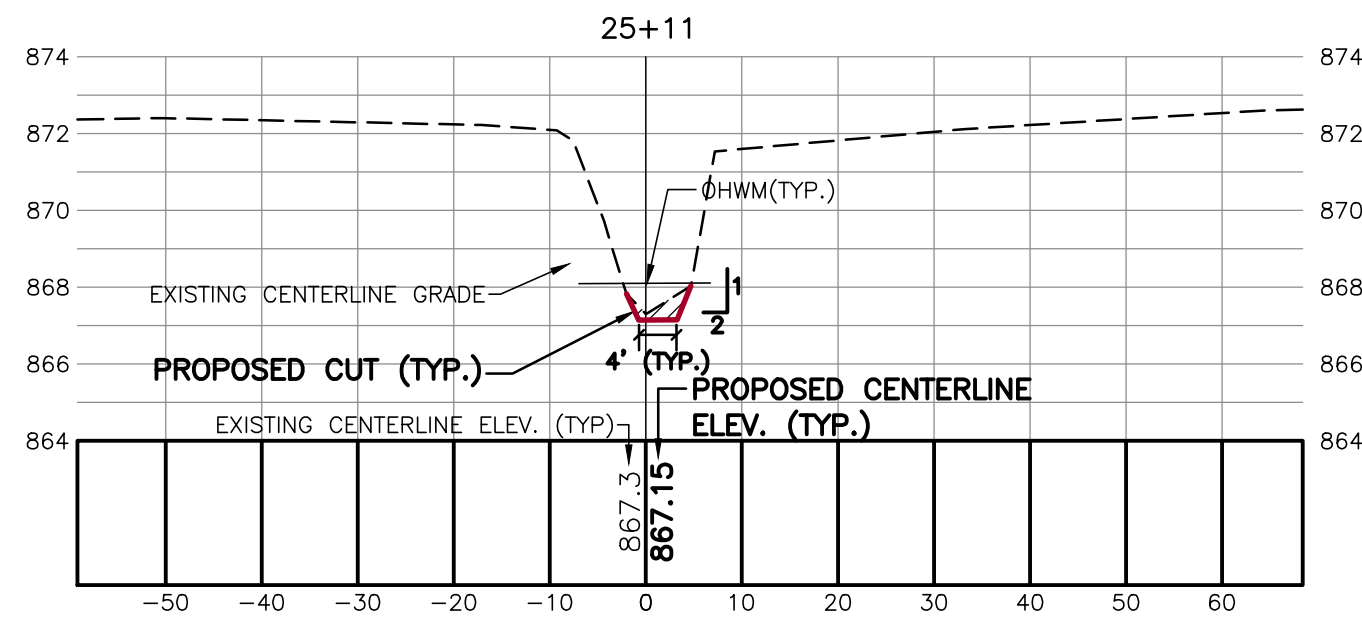
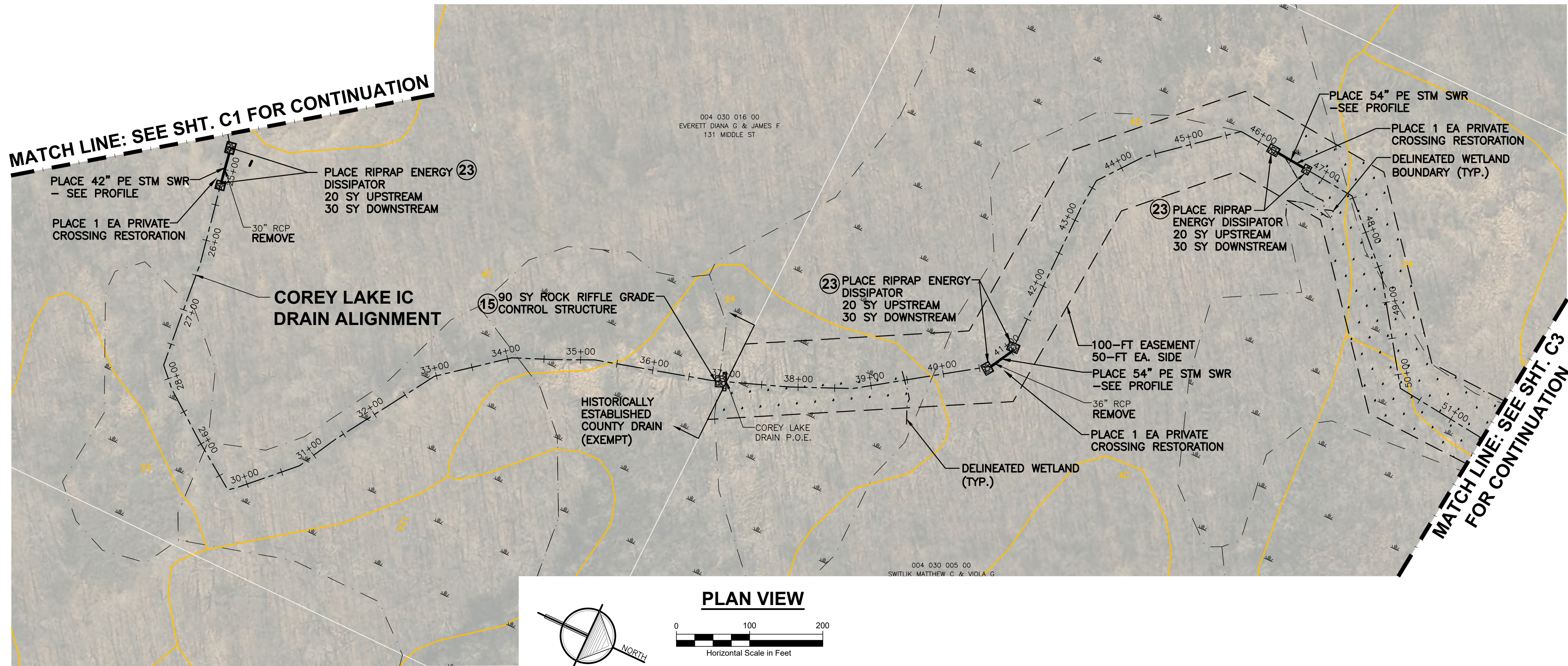
PROJECT NUMBER	DATE
19078	11/2019

SURVEYED BY: CRY-ADK
DESIGNED BY: AWS
DRAFTED BY: RAG
CADC-DJF

3 WORKING DAYS
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1-800-482-7171

PLAN & PROFILE
STA: 0+00 - 24+50

SHEET NUMBER
C1



NOTES:

1. CONTRACTOR TO FIELD VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND MUST NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. PROPOSED EARTH CHANGE SHALL BE LIMITED TO EASEMENT AREA
3. CONTRACTOR SHALL USE CRANE MATS WHILE WORKING IN WETLANDS IDENTIFIED IN THE USFWS NWI TO REDUCE DISTURBANCE.
4. MULCH BLANKET BANKS AS DIRECTED BY ENGINEER.
5. IF DRAIN IS ACCESSED ACROSS PROPERTY OUTSIDE OF DRAIN EASEMENT, A LANDOWNER'S AGREEMENT FORM MUST BE EXECUTED.
6. QUANTITIES WILL NOT BE PAID ABOVE CONTRACT AMOUNT UNLESS APPROVED BY ENGINEER.
7. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE AND FEDERAL LAWS INCLUDING CONDITIONS OF EGLE PERMIT #: WRP040908V1.0
8. REMOVE, SALVAGE AND REPAIR FENCES, STRUCTURES AND OTHER ITEMS THAT INTERFERE WITH CONSTRUCTION, PAID FOR AS 1 LS SITE RESTORATION.
9. CONTRACTOR TO DISPOSE OF REMOVED CULVERTS.
10. DRAINAGE EASEMENT: 66', 33' EACH SIDE OF DRAIN CENTERLINE UNLESS SHOWN OTHERWISE.

LEGEND

	WETLAND (USFWS NATIONAL WETLAND INVENTORY)
	SOIL TYPE (USDA NRCS WEBSOIL SURVEY)

MISCELLANEOUS QUANTITIES:

- | | |
|------------------------|----------|
| ① OPEN CHANNEL SEEDING | 1,250 LF |
| ② MULCH BLANKET | 500 SY |



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REVISIONS:	NO.	ISSUED FOR	DATE
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	2.	BIDS & CONSTRUCTION	04/23/2020
	3.	FOR CONSTRUCTION	09/19/2020

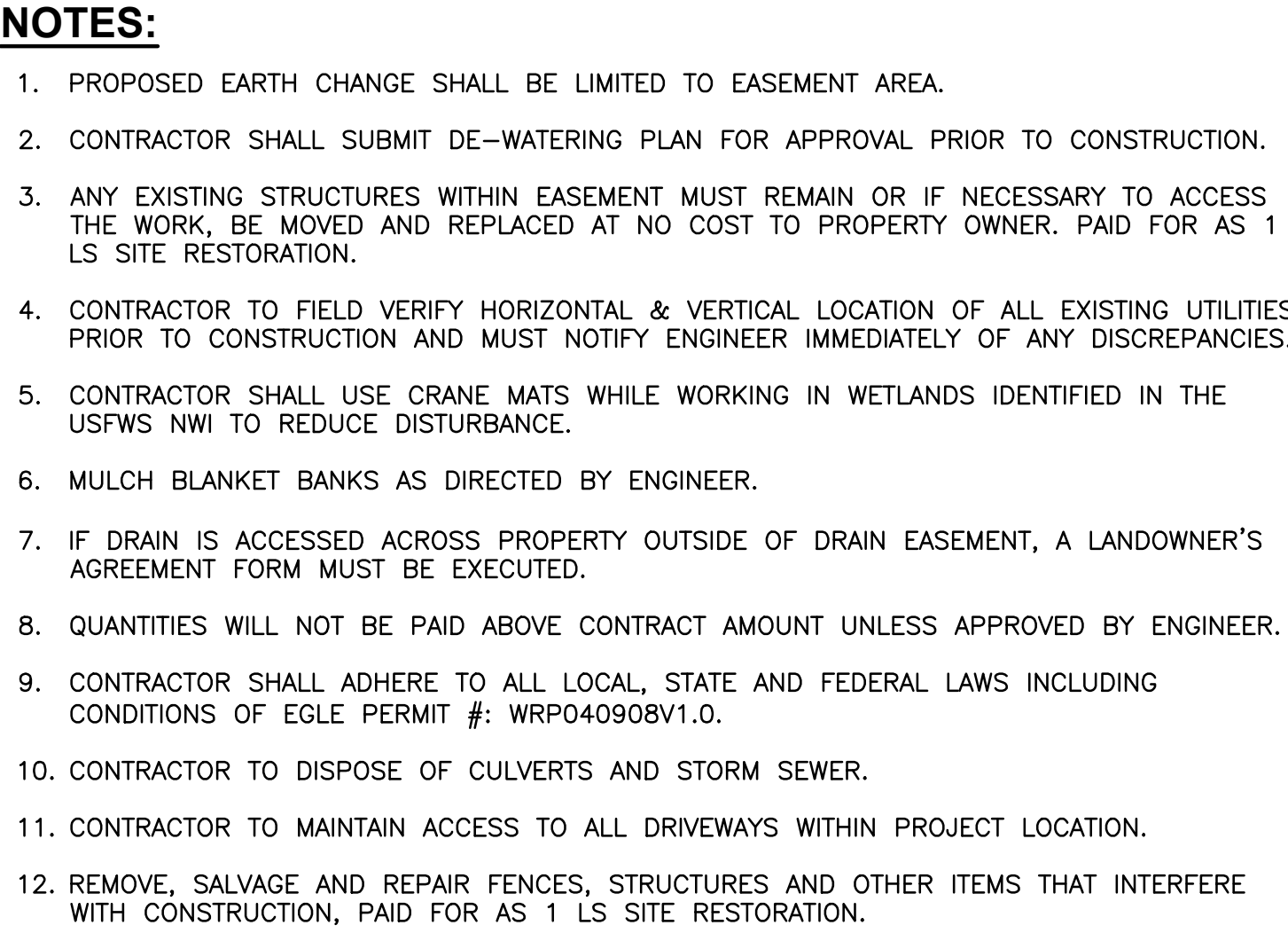
CLIENT:	COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
PROJECT:	INDARD 528 W. ALLEGAN STREET, LANSING, MICHIGAN 48933
	COREY LAKE INTERCOUNTY DRAIN
	CASS AND ST. JOSEPH COUNTIES, MICHIGAN

PROJECT NUMBER:	19478
DATE	11/2019
SURVEYED BY:	CPV-AOK
DESIGNED BY:	AMS
DRAFTED BY:	RAG
CADD:	DLF

PLAN & PROFILE
STA: 24+50 - 51+50

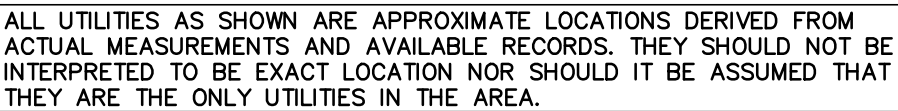
SHEET NUMBER

C2

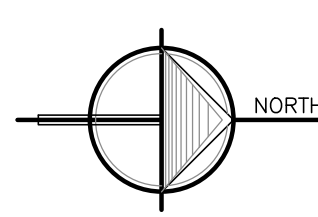


Wetland	WETLAND (USFWS NATIONAL WETLAND INVENTORY)
Asphalt	BITUMINOUS PAVEMENT REMOVAL
Wetland	SOIL TYPE (USDA NRCS WEBSOIL SURVEY)

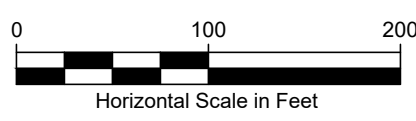
COREY LAKE OUTLET DEWATERING	1 LS
① SURFACE RESTORATION	524 LF



MUD LAKE - CLEAR LAKE

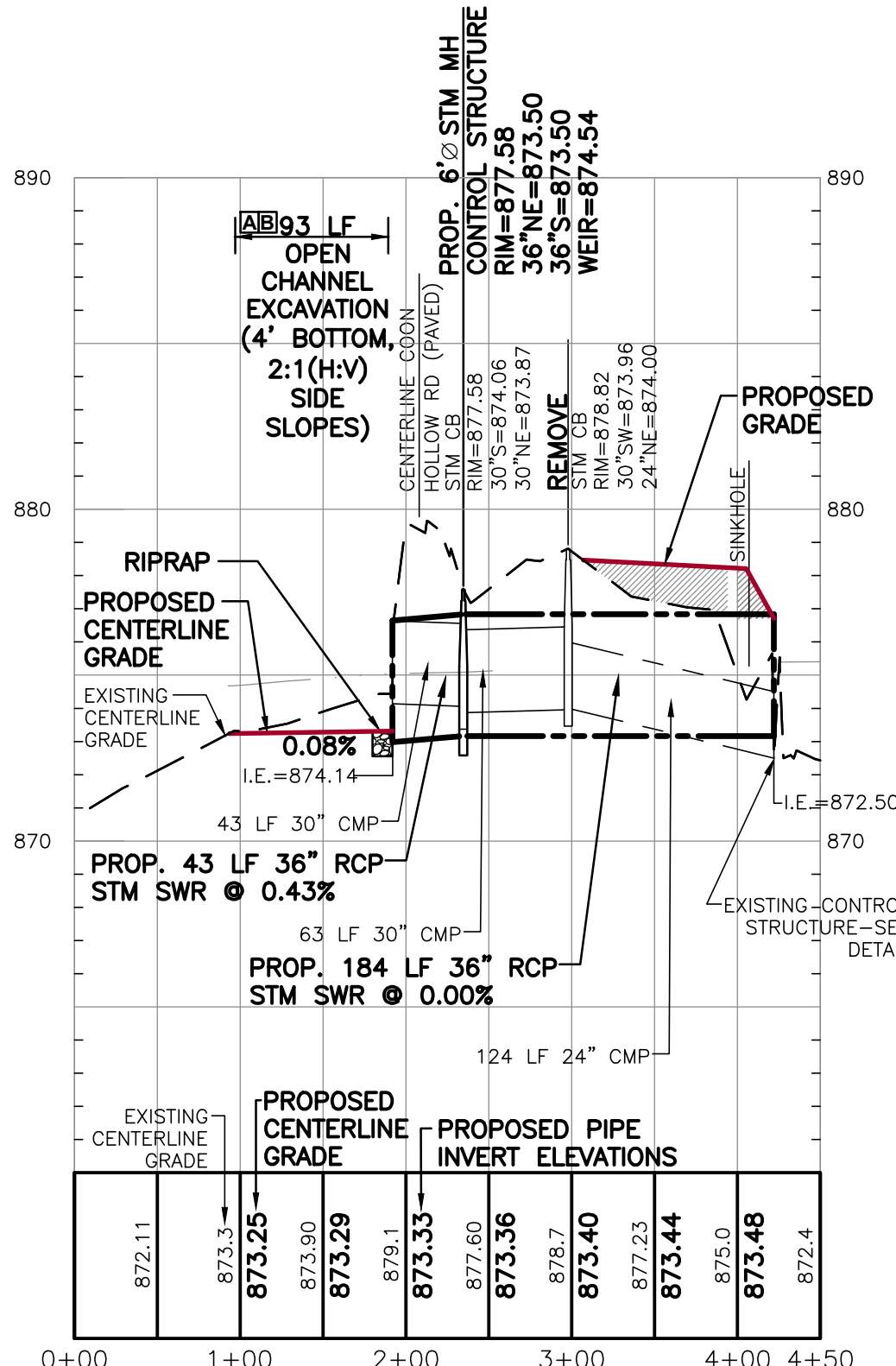


PLAN VIEW



LEGEND

- WETLAND (USFWS NATIONAL WETLAND INVENTORY)
- SOIL TYPE (USDA NRCS WEB SOIL SURVEY)

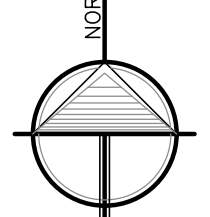
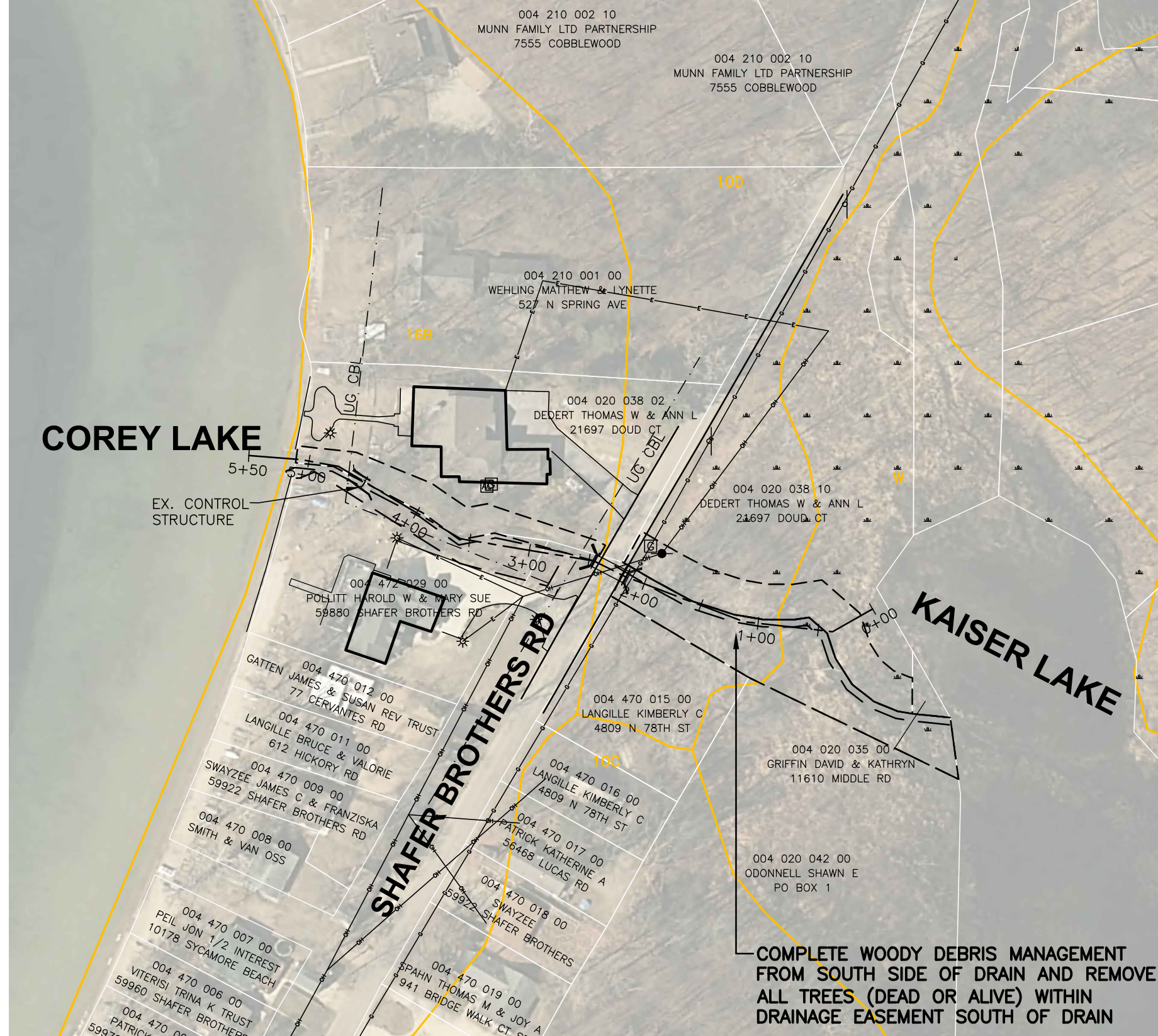


MUD LAKE - CLEAR LAKE

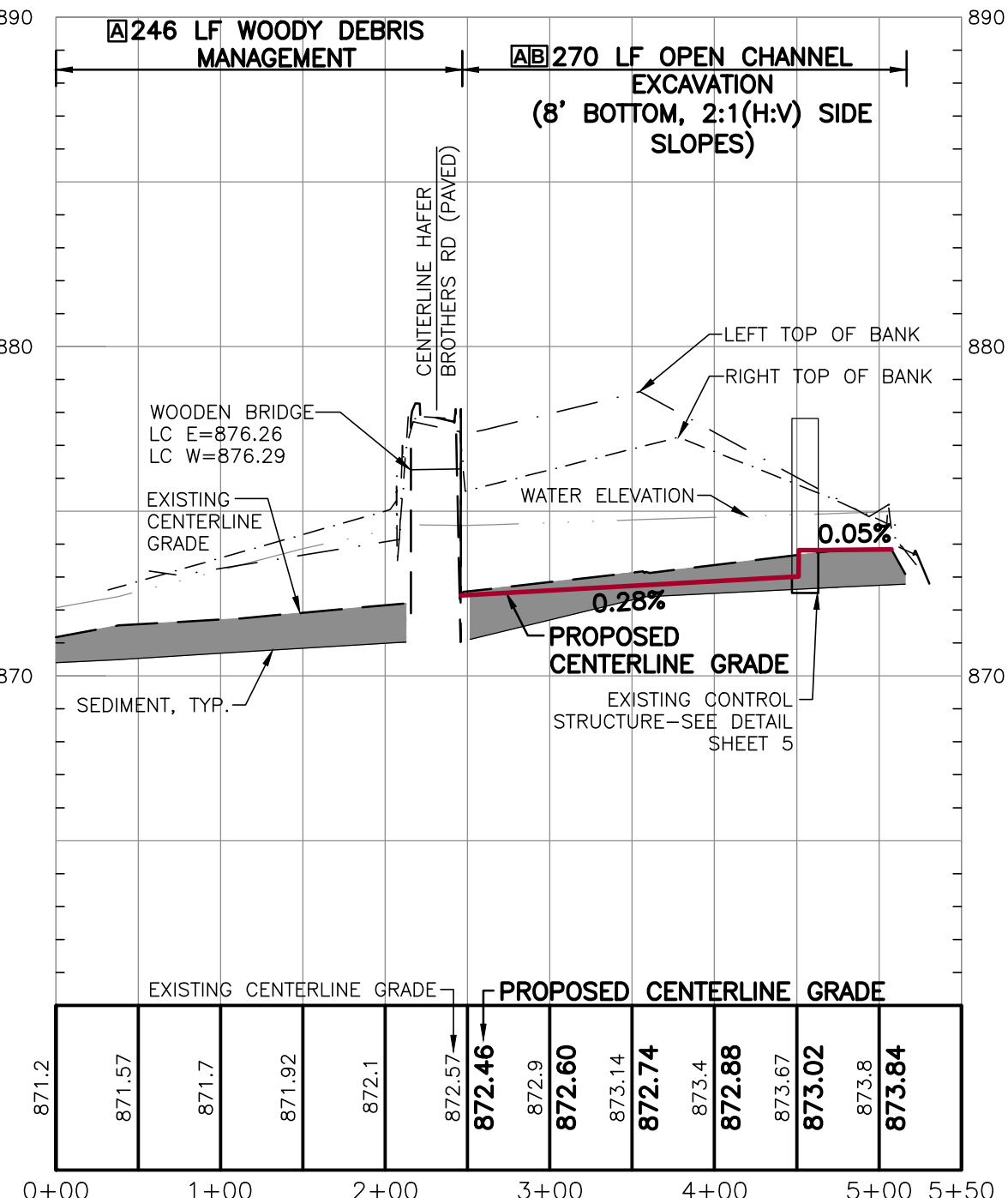
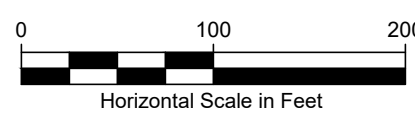
CENTERLINE PROFILE

SCALE: HORIZONTAL: 1" = 100'
VERTICAL: 1" = 5'

COREY LAKE - KAISER LAKE



PLAN VIEW



COREY LAKE - KAISER LAKE

NOTES:

- PROPOSED EARTH CHANGE SHALL BE LIMITED TO EASEMENT AREA.
- CONTRACTOR SHALL SUBMIT DE-WATERING PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.
- ANY EXISTING STRUCTURES WITHIN EASEMENT MUST REMAIN OR IF NECESSARY TO ACCESS THE WORK, BE MOVED AND REPLACED AT NO COST TO PROPERTY OWNER. PAID FOR AS 1 LS SITE RESTORATION.
- CONTRACTOR TO FIELD VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND MUST NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR SHALL USE CRANE MATS WHILE WORKING IN WETLANDS IDENTIFIED IN THE USFWS NWI TO REDUCE DISTURBANCE.
- MULCH BLANKET BANKS AS DIRECTED BY ENGINEER.
- IF DRAIN IS ACCESSED ACROSS PROPERTY OUTSIDE OF DRAIN EASEMENT, A LANDOWNER'S AGREEMENT FORM MUST BE EXECUTED.
- QUANTITIES WILL NOT BE PAID ABOVE CONTRACT AMOUNT UNLESS APPROVED BY ENGINEER.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE AND FEDERAL LAWS INCLUDING CONDITIONS OF EGLE PERMIT #: WRPO4090BV1.0. INCLUDING: NO WORK IN CLEAR LAKE MARCH 1ST - JUNE 30TH & NO WORK IN COREY LAKE MAY 1 - JUNE 30.
- CONTRACTOR TO DISPOSE OF CULVERTS AND STORM SEWER.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN PROJECT LOCATION.
- REMOVE, SALVAGE AND REPAIR FENCES, STRUCTURES AND OTHER ITEMS THAT INTERFERE WITH CONSTRUCTION, PAID FOR AS 1 LS SITE RESTORATION.

MISCELLANEOUS QUANTITIES:

1 SURFACE RESTORATION	227 LF
1 OPEN CHANNEL SEEDING	363 LF
1 CLEAR LAKE OUTLET DEWATERING	1 LS

TIMING AND SEQUENCE OF CONSTRUCTION & SESC MEASURES

CONSTRUCTION ACTIVITY	ACTIVITY BY MONTH/WEEKS											
	FALL 2025	FALL 2025	FALL 2025	WINTER 2026	WINTER 2026	WINTER 2026	WINTER 2026	WINTER 2026	WINTER 2026	WINTER 2026	FALL 2026	FALL 2026
1 MOBILIZE CONSTRUCTION EQUIPMENT												
2 PLACE TEMPORARY SESC MEASURES												
3 CONDUCT CLEARING, GRUBBING, & SNAGGING												
4 CONDUCT OPEN CHANNEL EXCAVATION												
5 INSTALL CULVERTS												
6 INSTALL PERMANENT IN-STREAM SESC MEASURES												
7 INSTALL STORM SEWER FROM LAKE OUTLETS												
8 INSTALL PERMANENT UPLAND SESC MEASURES												
9 CONDUCT FINAL RESTORATION MEASURES												
10 REMOVE TEMPORARY SESC MEASURES												

*NOTE:
TEMPORARY CONTROL MEASURES TO BE REMOVED ONCE VEGETATION IS ESTABLISHED AND SITE IS STABILIZED.

MACDC UNIFIED KEYING SYSTEM EROSION CONTROL MEASURES (SESC)			
KEY	SESC MEASURE	SYMBOL	WHERE USED
1	Seeding		When bare soil is exposed, temporarily or permanently, to erosive forces from wind and or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	Mulch		On flat areas, slopes, grassed waterways and spillways, diversion ditches & dikes, borrow & stockpile areas, & spoil piles when areas are subject to raindrop impact, & erosive forces from wind or water.
9	Vegetation Removal without Grubbing		Retains existing root mat which assists in stabilizing slopes. Assists in the revegetation process by providing sprout growth. Reduces sheet flow velocities preventing rilling and gullying. Discourages off-road vehicle use.
13	Slope Stabilization		Slope stabilizing measures provide an immediate and effective cover over raw erodible slopes affording excellent protection against rain and wind erosion.
15	Riprap		Along drain banks, shorelines, or where concentrated flows occur. slows velocity, reduces erosion and sedimentation.
16	Riprap Toe of Slope		Riprap toe of slope protection is used in areas where velocities are causing drain bank erosion and are too high to stabilize using other methods.
19	Armored Spillway		When concentrated flow must be conveyed down a drain bank or slope of discharge into another drain. Where slope failure or channel scour is observed or is likely to occur, or when runoff must be redirected around work in the drain.
23	Outfall Stabilization		In the stream or drain bank usually above the ordinary high water mark where an enclosed drain or tile discharges to an open drain.

MACDC UNIFIED KEYING SYSTEM - ROUTINE MAINTENANCE ACTIVITIES	
KEY	BEST MANAGEMENT PRACTICE
A	Debris Removal
B	Sediment Removal

*NOTE:
ALL SESC MEASURES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MACDC SESC MANUAL.

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REVISIONS:

NO.	ISSUED FOR	DATE
1.	DRAFT REVIEW	11/27/2019
2.	BIDS & CONSTRUCTION	04/23/2025
3.	FOR CONSTRUCTION	09/19/2025

CLIENT: COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
MIDARD 528 W. ALLEGAN STREET, LANSING, MICHIGAN 48933

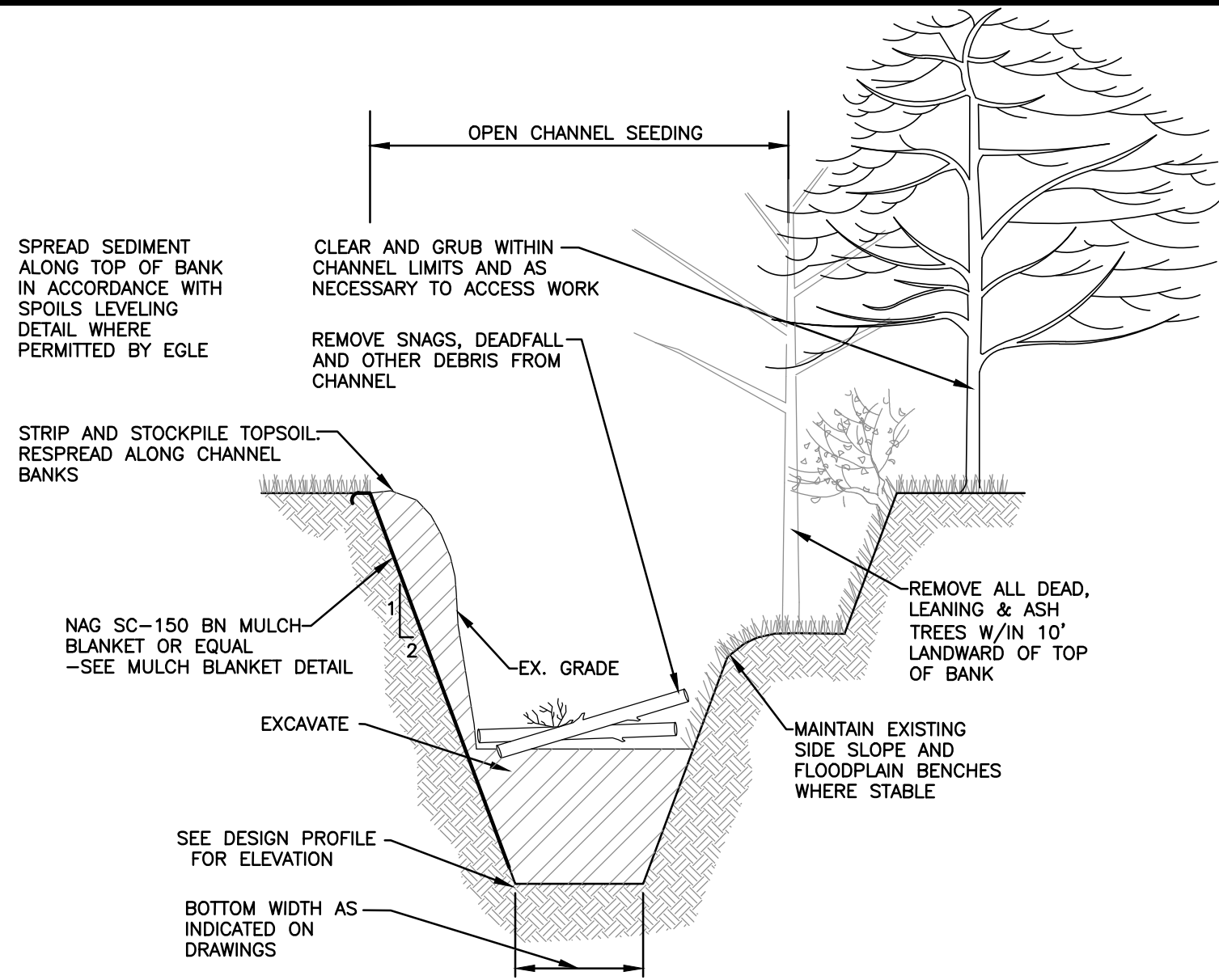
PROJECT: COREY LAKE INTERCOUNTY DRAIN
CASS AND ST. JOSEPH COUNTIES, MICHIGAN

PROJECT NUMBER: 19078

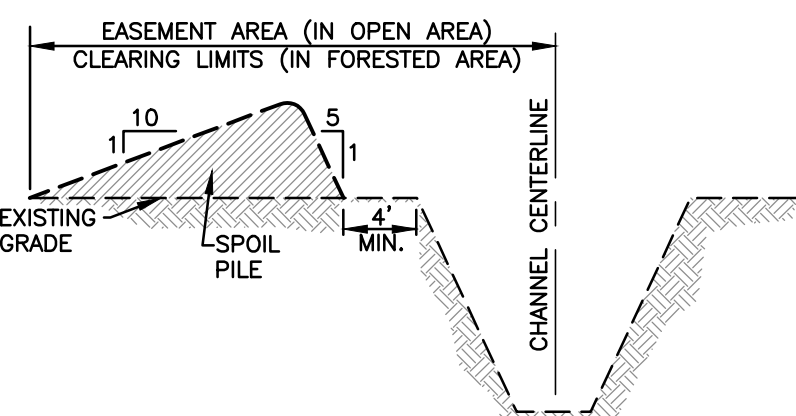
SHEET NAME	DATE
SURVEYED BY: CRV-ADK	11/2019
DESIGNED BY: AWS	06/2022
DRAFTED BY: RAG	11/2019
QA/QC: DJF	03/2025

PLAN & PROFILE
MUD - CLEAR LAKE
COREY - KAISER LAKE

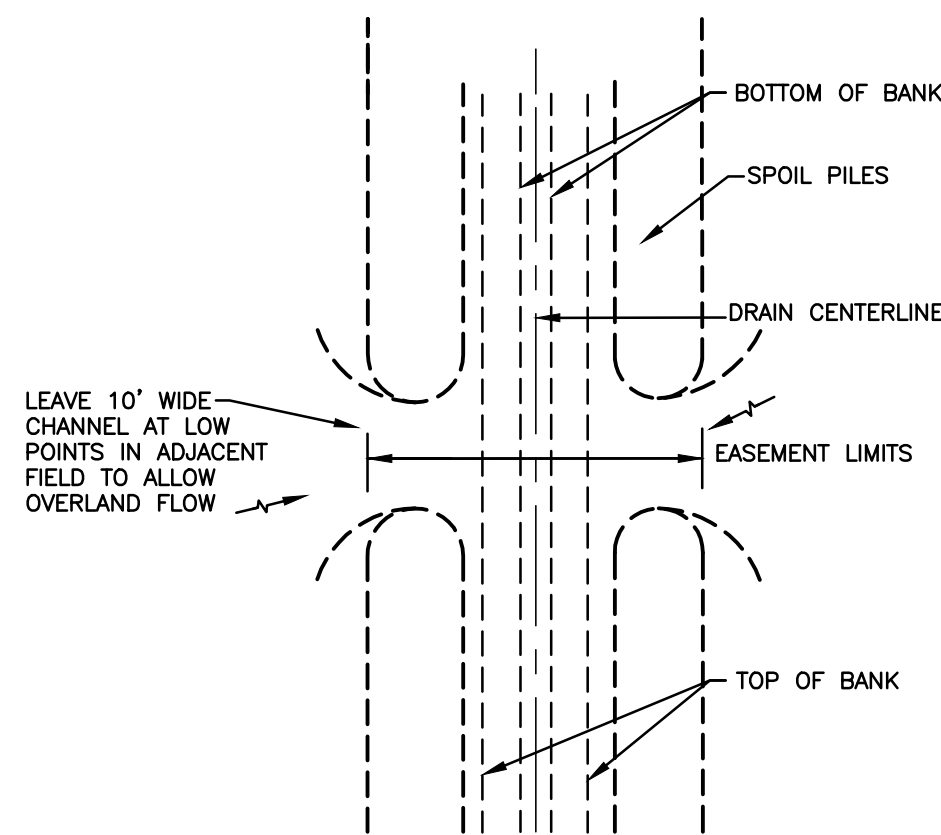
SHEET NUMBER
C4



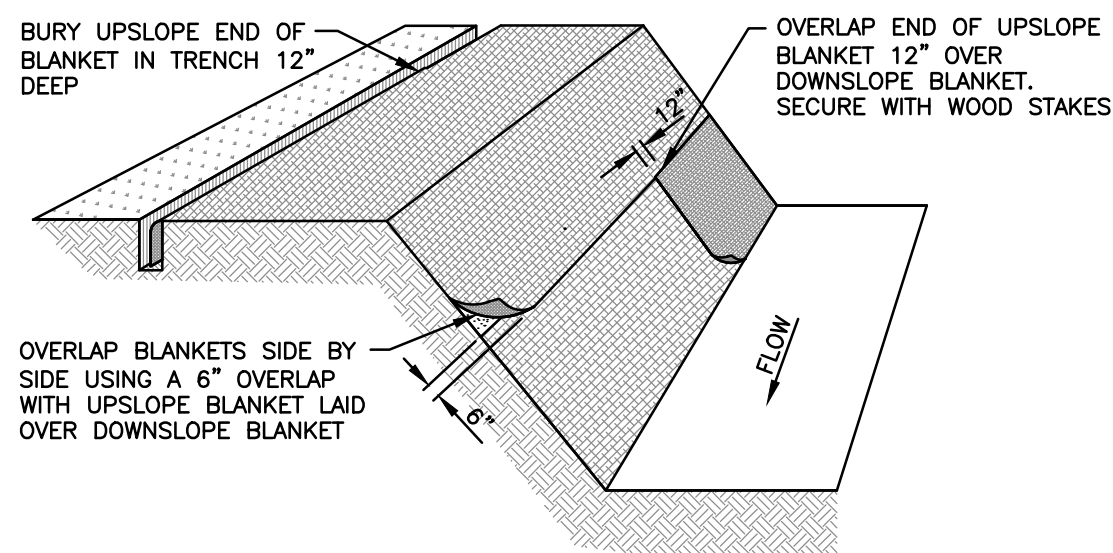
A B OPEN CHANNEL EXCAVATION DETAIL
NOT TO SCALE



CROSS SECTION-SPOIL LEVELING AREA
NOT TO SCALE



SPOIL LEVELING DETAIL
NOT TO SCALE



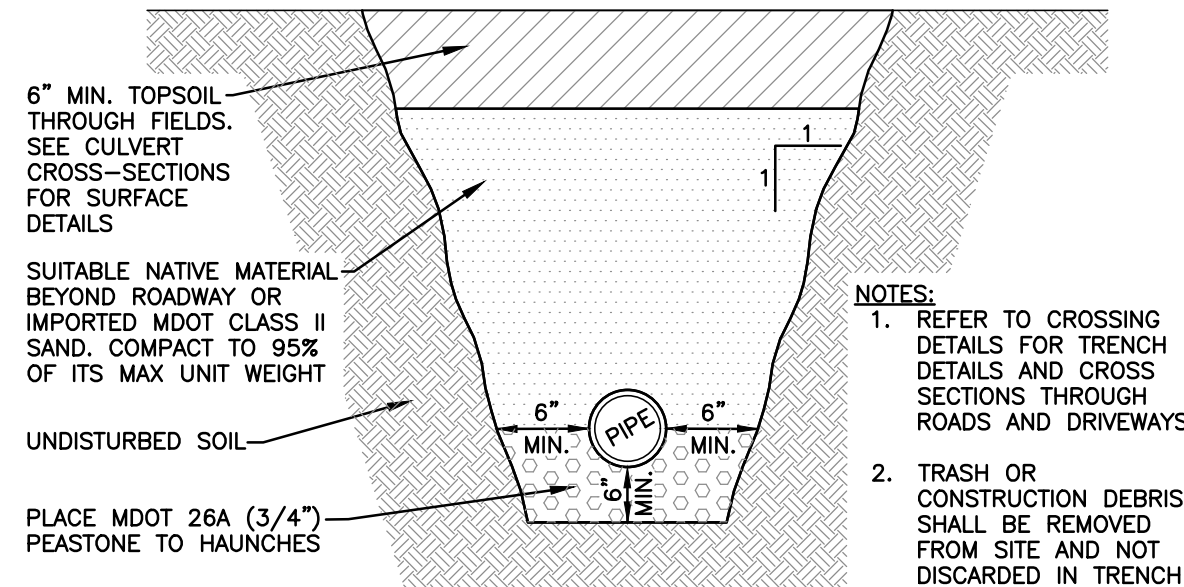
- NOTES:
1. PLACE MULCH BLANKET PARALLEL TO FLOW AND ANCHOR SECURELY.
 2. STAPLES INSTALLED/SECURED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 3. MULCH BLANKET SHALL BE NA GREEN SC 150 BN OR EQUAL.

2 MULCH BLANKETS INSTALLATION DETAIL
NOT TO SCALE

TRENCH WIDTH TABLE

MINIMUM TRENCH WIDTH FOR N-12 PLASTIC PIPE
(PER ADS STANDARD DRAWING STD-101)

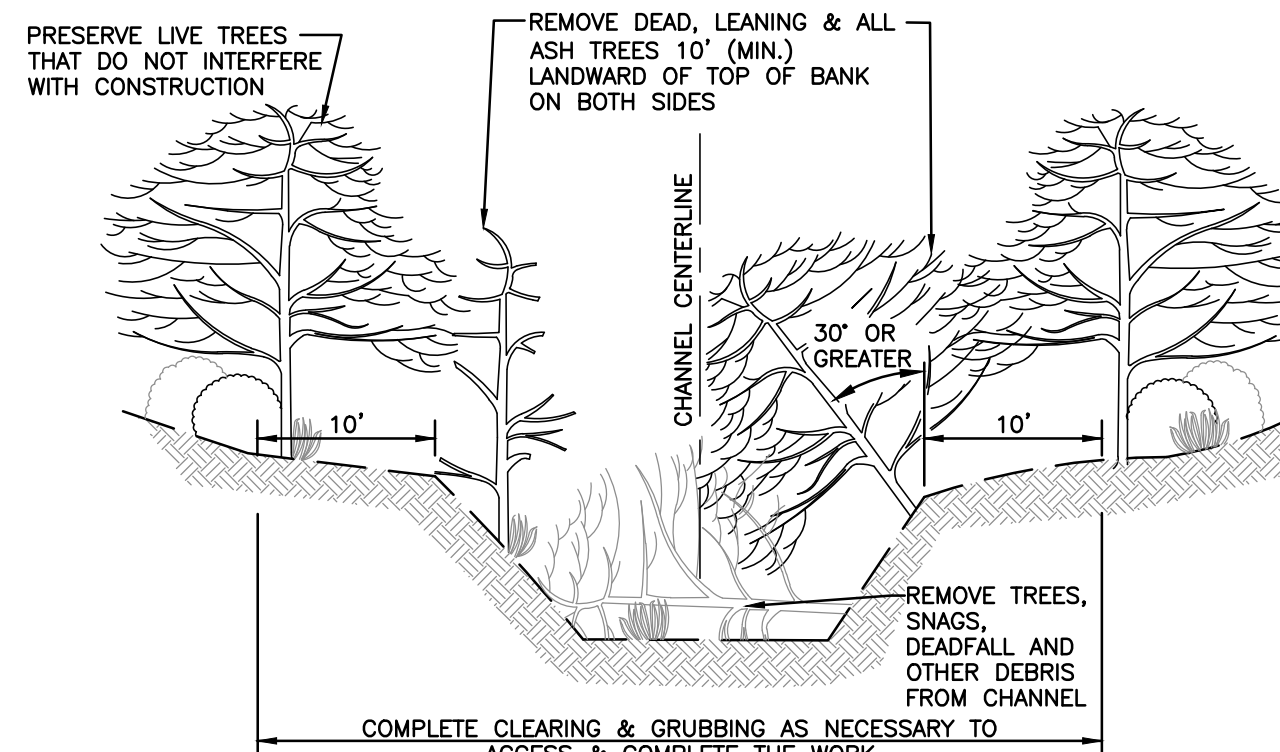
PIPE DIAMETER	TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
60"	96"



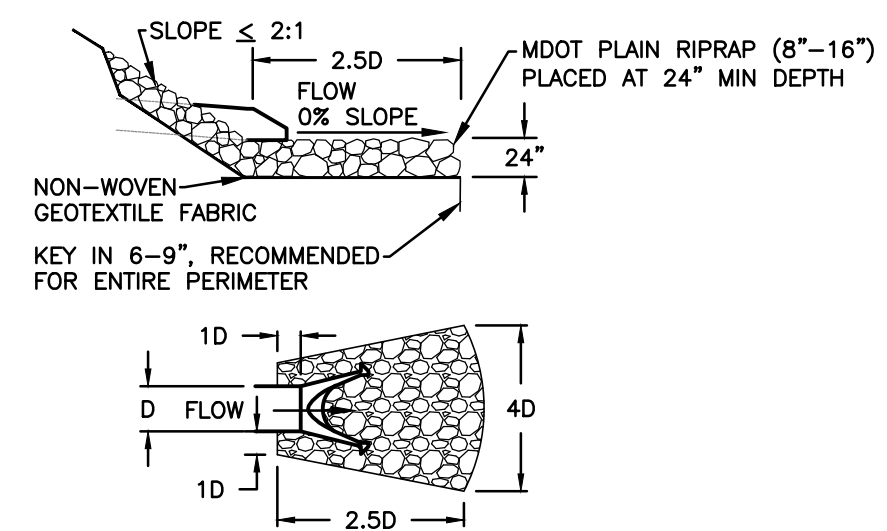
- NOTES:
1. REFER TO CROSSING DETAILS FOR TRENCH DETAILS AND CROSS SECTIONS THROUGH ROADS AND DRIVEWAYS
 2. TRASH OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND NOT DISCARDED IN TRENCH

STORM SEWER TRENCH DETAIL
NOT TO SCALE

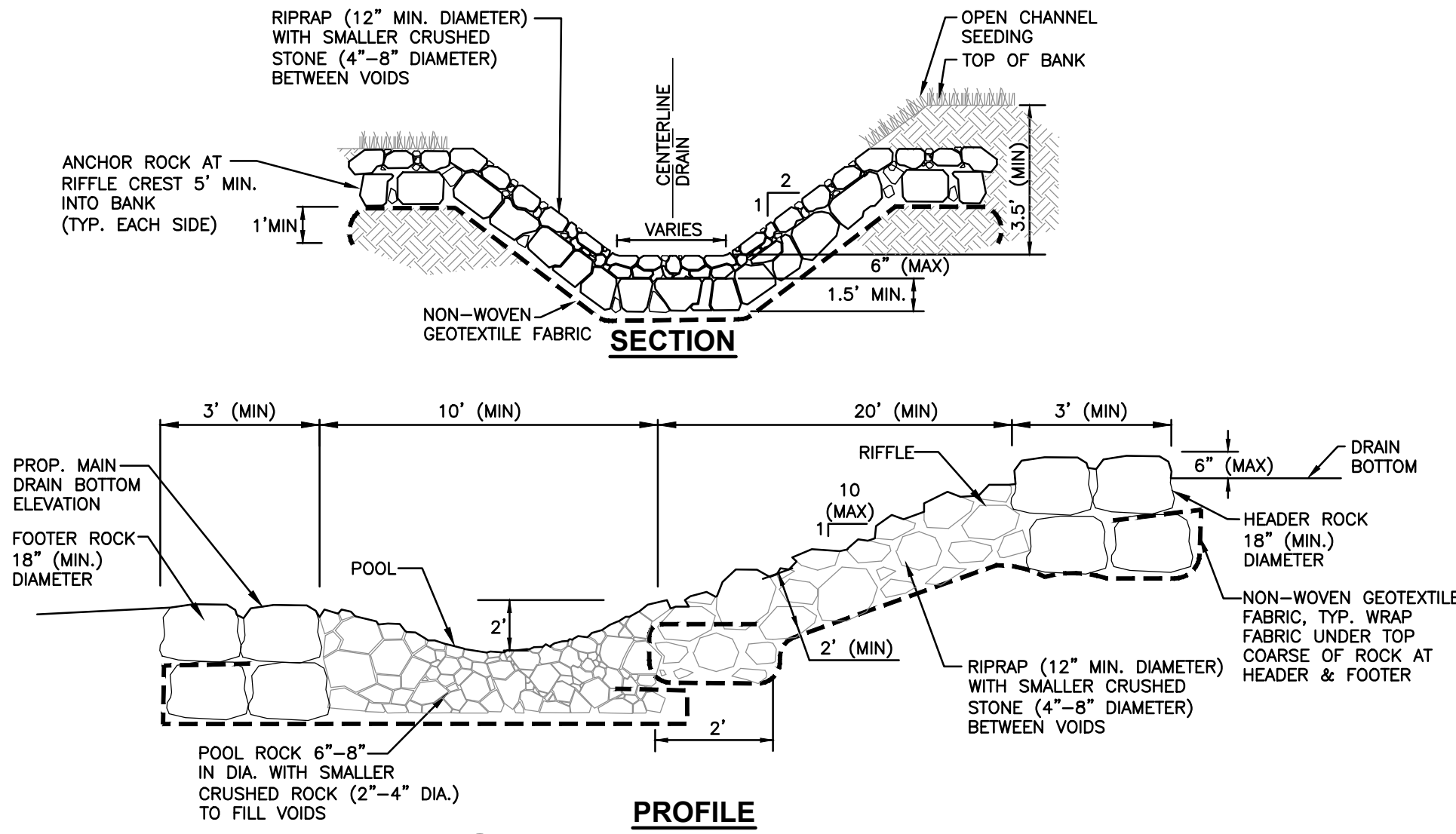
- NOTES:
1. CUT STUMPS FLUSH WITH GROUND SURFACE.
 2. LEAVE EMBEDDED MATERIAL WITHIN THE CHANNEL BOTTOM.



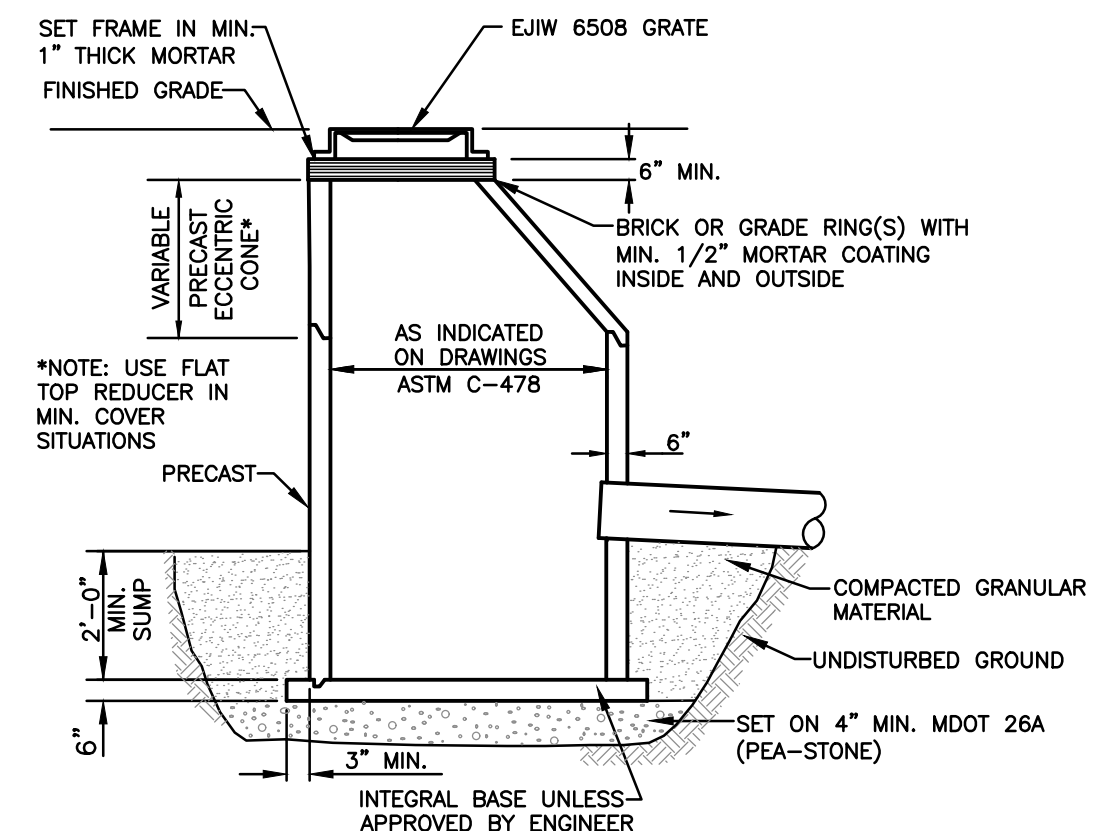
A WOODY DEBRIS MANAGEMENT
NOT TO SCALE



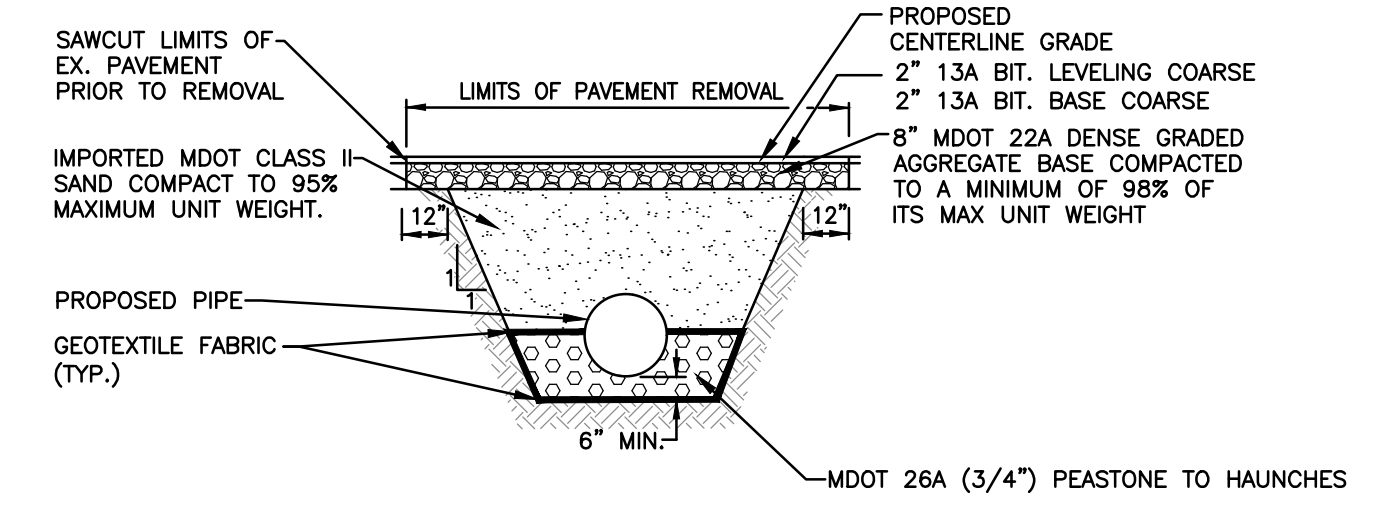
23 RIPRAP ENERGY DISSIPATOR
NOT TO SCALE



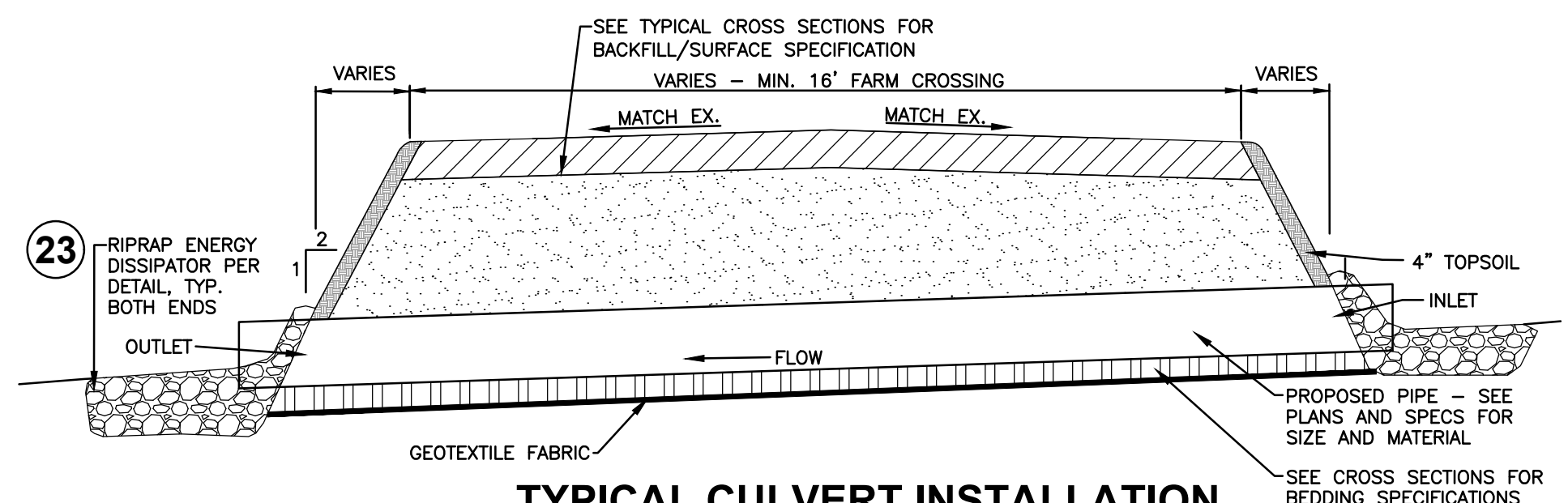
15 ROCK RIFFLE DETAIL
NOT TO SCALE



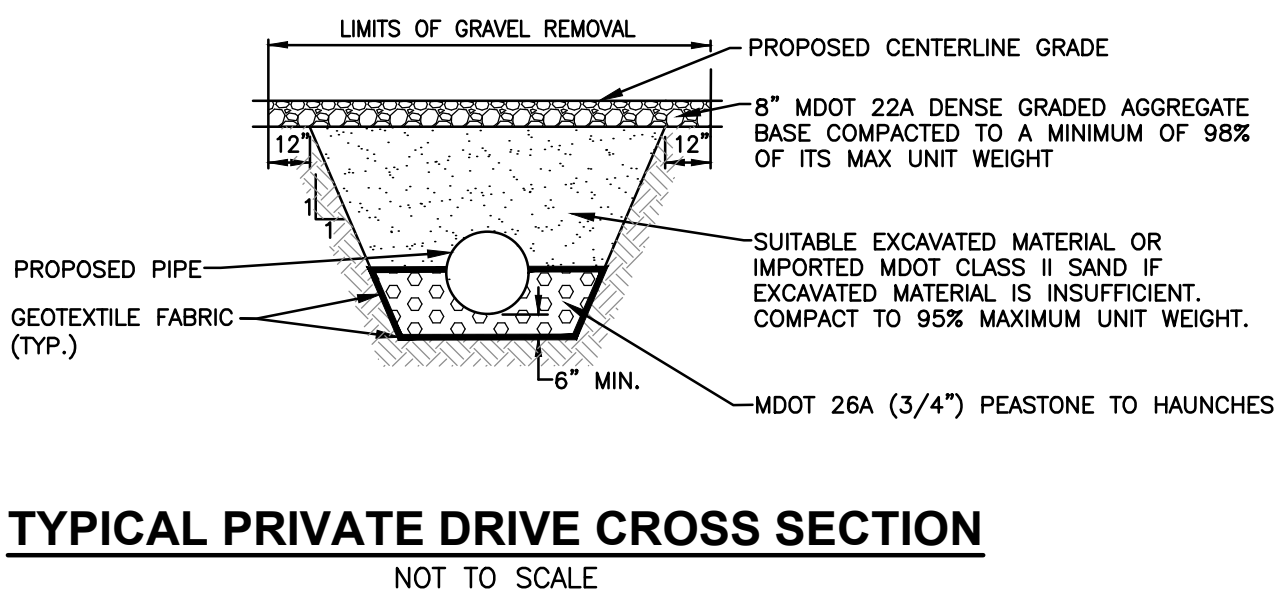
STANDARD CATCH BASIN
NOT TO SCALE



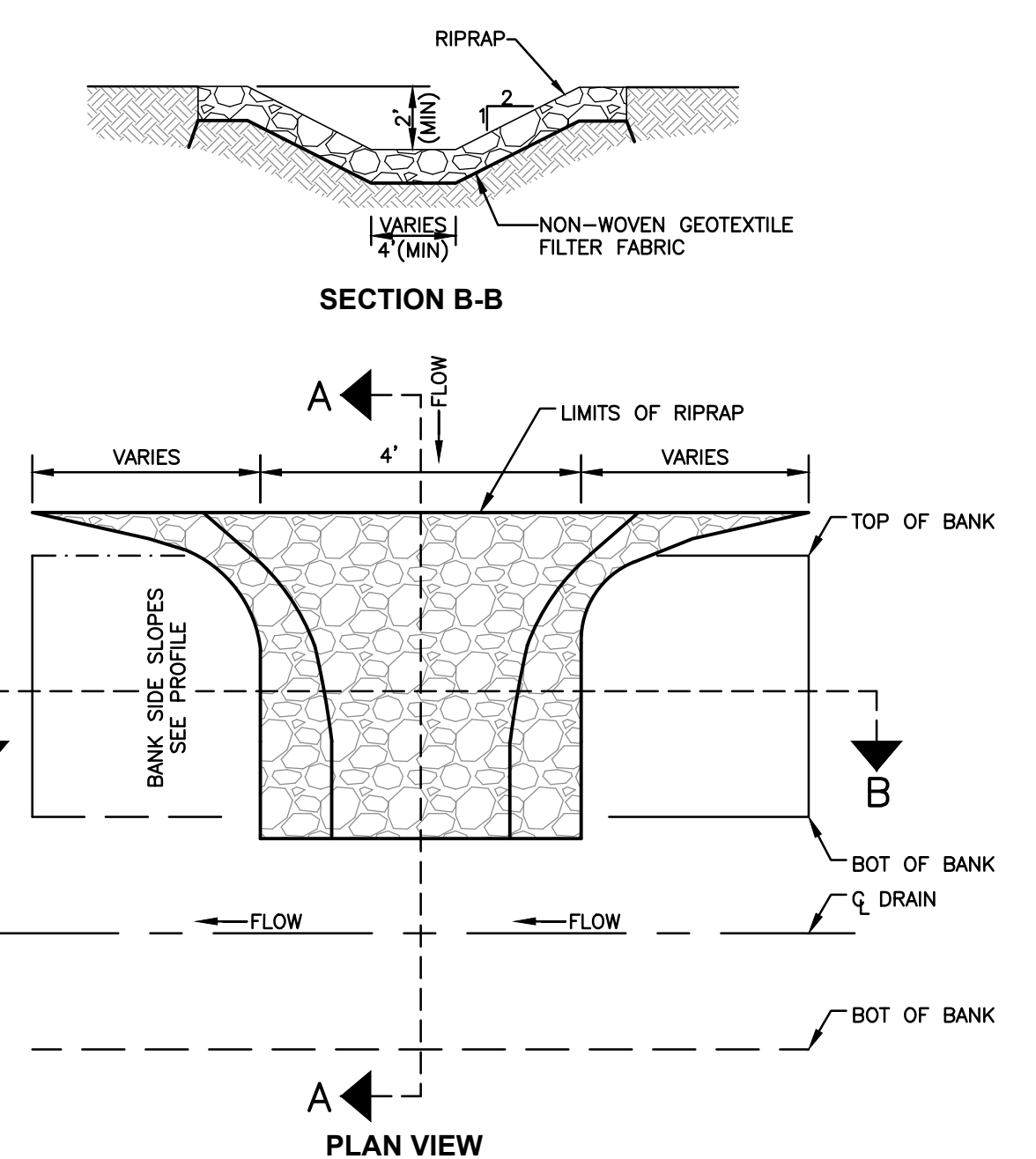
TYPICAL PAVED ROAD CROSS SECTION
NOT TO SCALE



TYPICAL CULVERT INSTALLATION
NOT TO SCALE



TYPICAL PRIVATE DRIVE CROSS SECTION
NOT TO SCALE



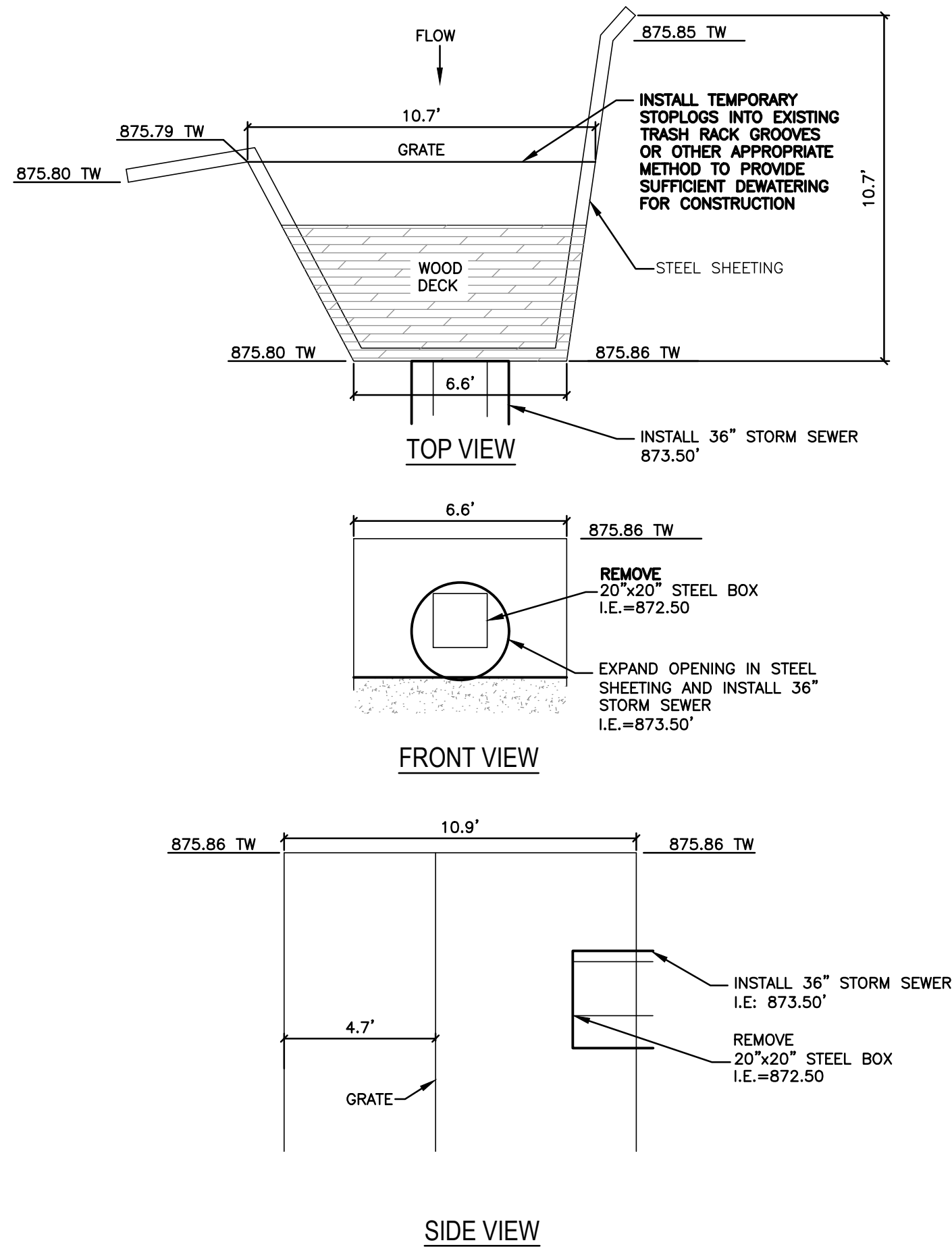
19 RIPRAP SLIDE INLET DETAIL
NOT TO SCALE

REVISIONS:	NO.	ISSUED FOR:	DATE
	1.	DRAFT REVIEW	11/27/2019
	2.	BIDS & CONSTRUCTION	04/23/2020
	3.	FOR CONSTRUCTION	09/19/2020

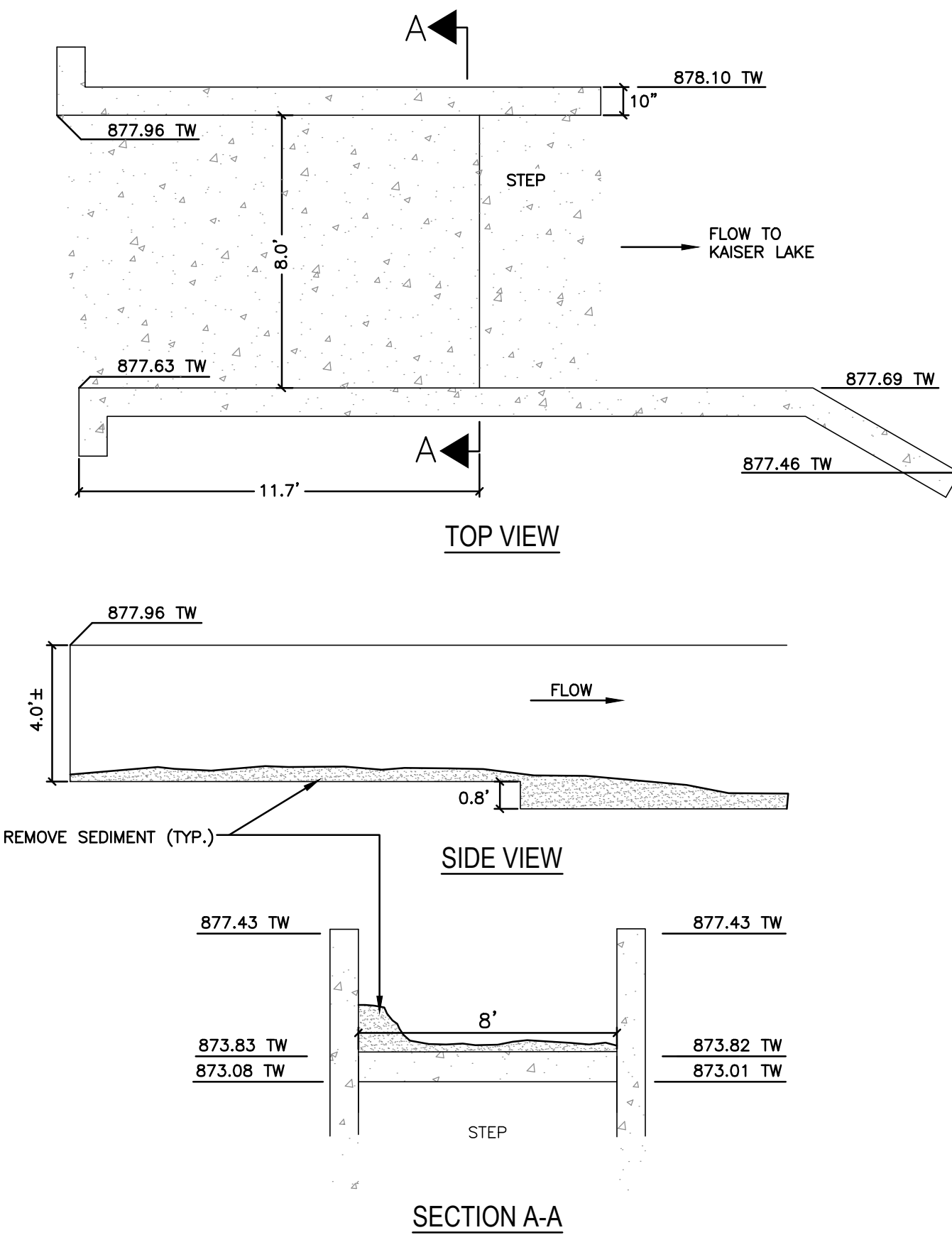
CLIENT:	COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
PROJECT:	INDARD 525 W. ALLEGAN STREET, LANSING, MICHIGAN 48933
CLIENT ADDRESS:	COREY LAKE INTERCOUNTY DRAIN
CLIENT CITY/STATE:	CASS AND ST. JOSEPH COUNTIES, MICHIGAN

PROJECT NUMBER:	19078
SHEET NAME:	DETAIL SHEET
SHEET NUMBER:	C5

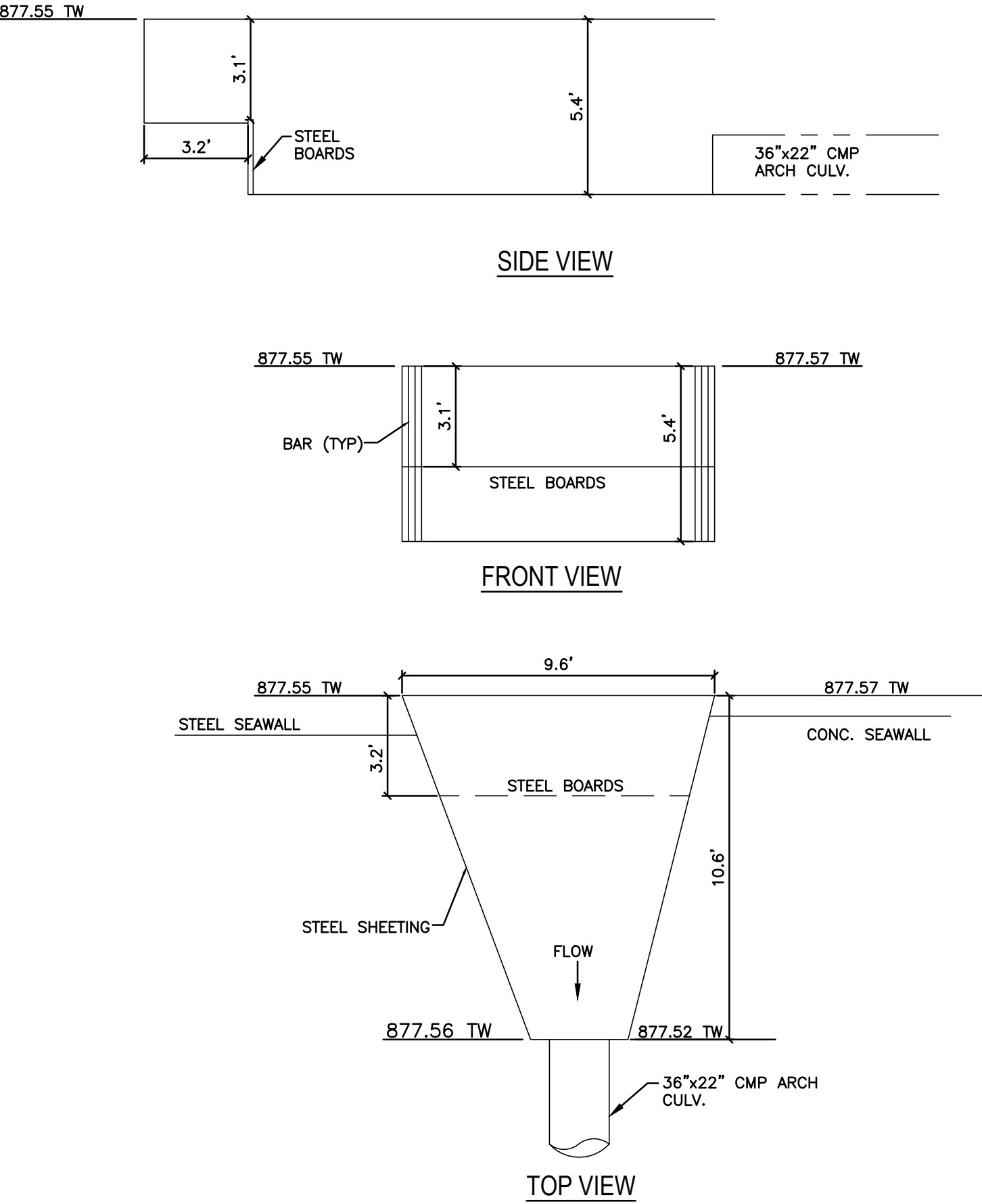
DATE	11/2019
DESIGNED BY:	CPV-AOK
DRAFTED BY:	RAJ
CHECKED BY:	DJF



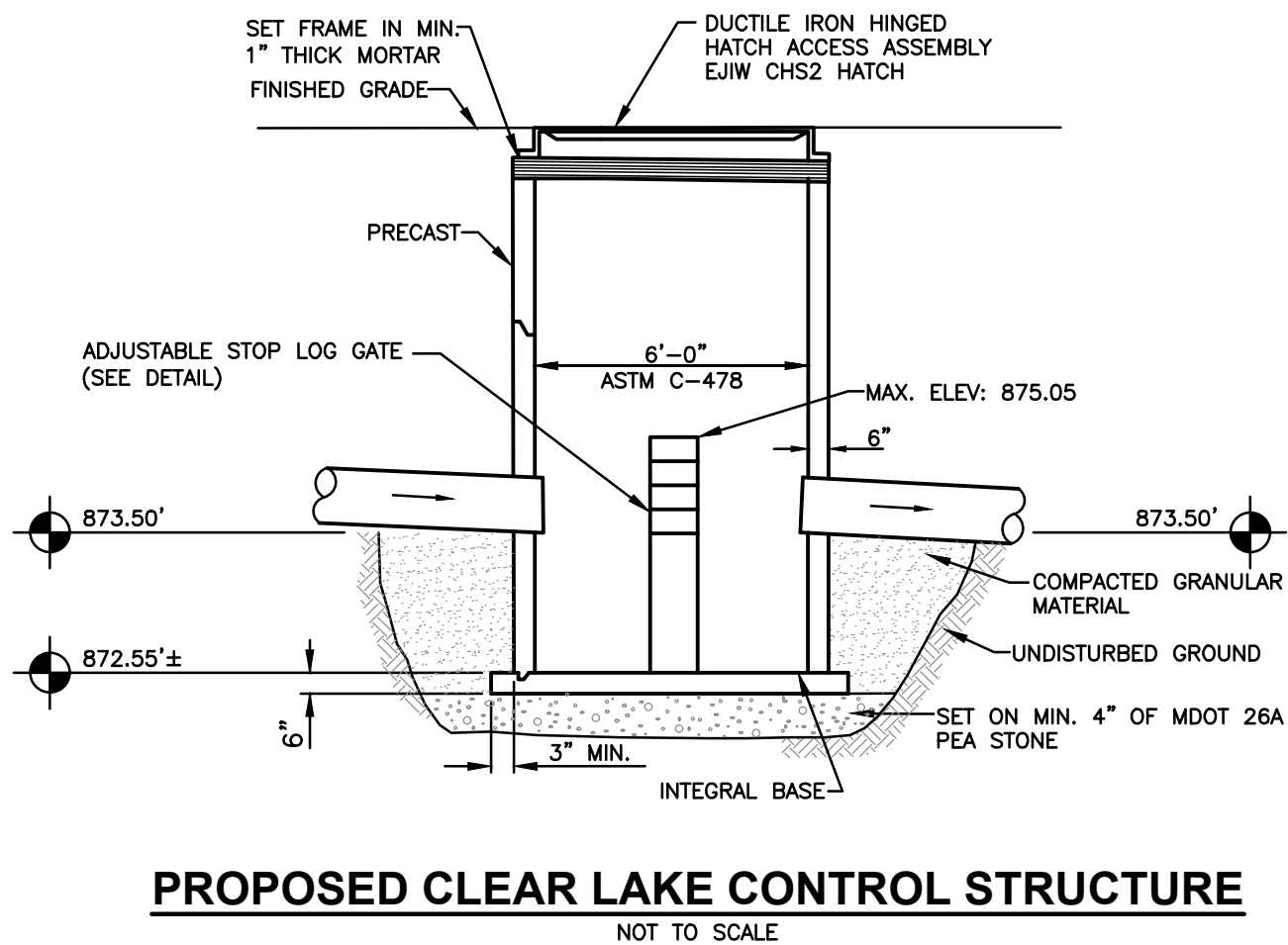
EXISTING CONTROL STRUCTURE CLEAR LAKE
SCALE: 1"=4'
ELEVATIONS ARE BASED ON NGVD 29



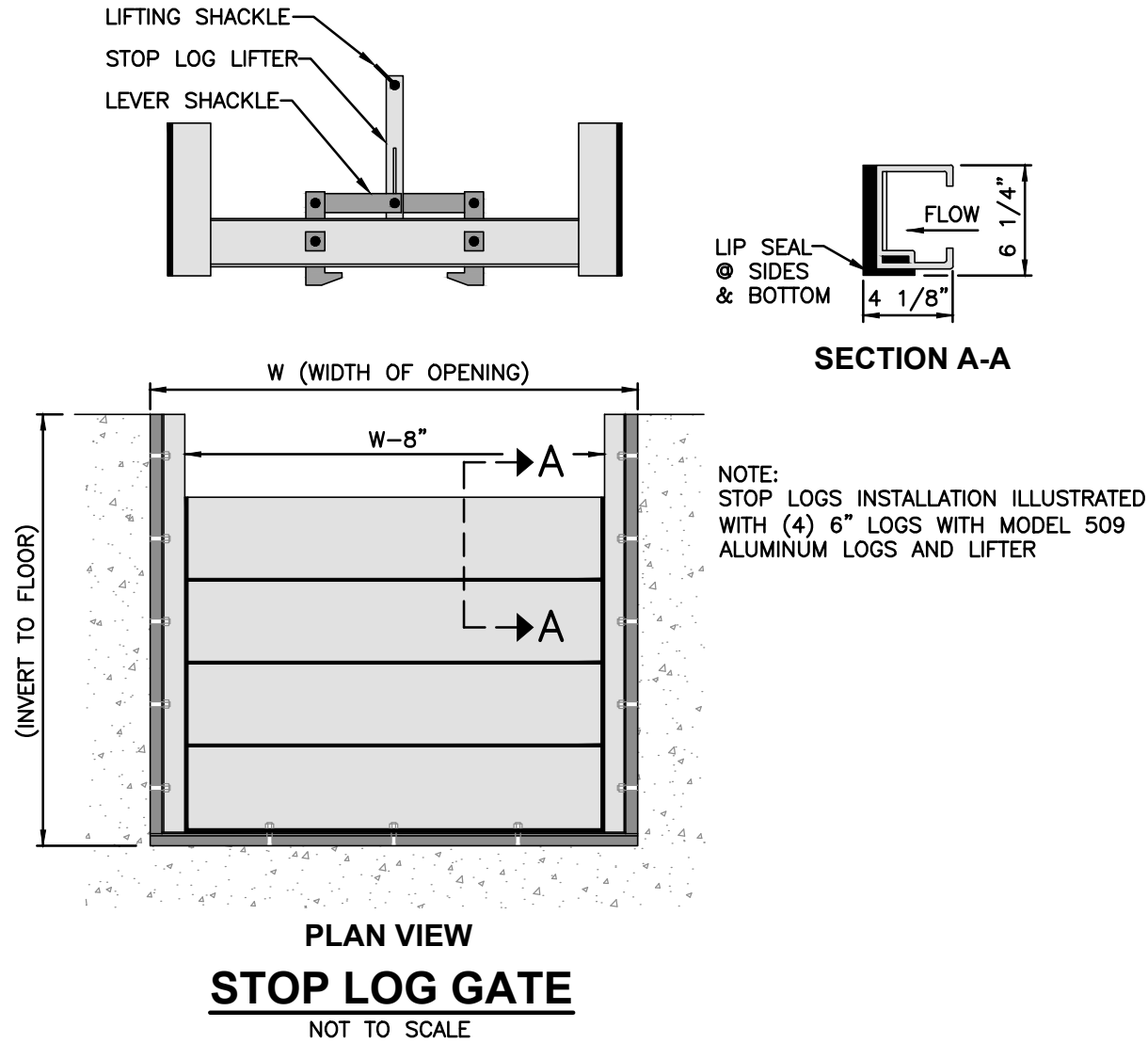
EXISTING CONTROL STRUCTURE KAISER LAKE TO COREY LAKE
SCALE: 1"=4'
ELEVATIONS ARE BASED ON NGVD 29



EXISTING CONTROL STRUCTURE COREY LAKE
SCALE: 1"=4'
ELEVATIONS ARE BASED ON NGVD 29



PROPOSED CLEAR LAKE CONTROL STRUCTURE
NOT TO SCALE



STOP LOG GATE
NOT TO SCALE

ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

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REVISIONS:

NO.	ISSUED FOR	DATE
1.	DRAFT REVIEW	11/27/2019
2.	BIDS & CONSTRUCTION	04/23/2025
3.	FOR CONSTRUCTION	09/19/2025

CLIENT:

COREY LAKE INTERCOUNTY DRAIN DRAINAGE BOARD
INDARD 528 W. ALLEGAN STREET, LANSING, MICHIGAN 48933

COREY LAKE INTERCOUNTY DRAIN
CASS AND ST. JOSEPH COUNTIES, MICHIGAN

PROJECT NUMBER: 19078

DATE
11/2019
06/2022
11/2019
03/2025

SURVEYED BY: CRY-ADK
DESIGNED BY: AWS
DRAFTED BY: RAG
CADC: DJF

LAKE LEVEL
STRUCTURE DETAILS

SHEET NUMBER

C6