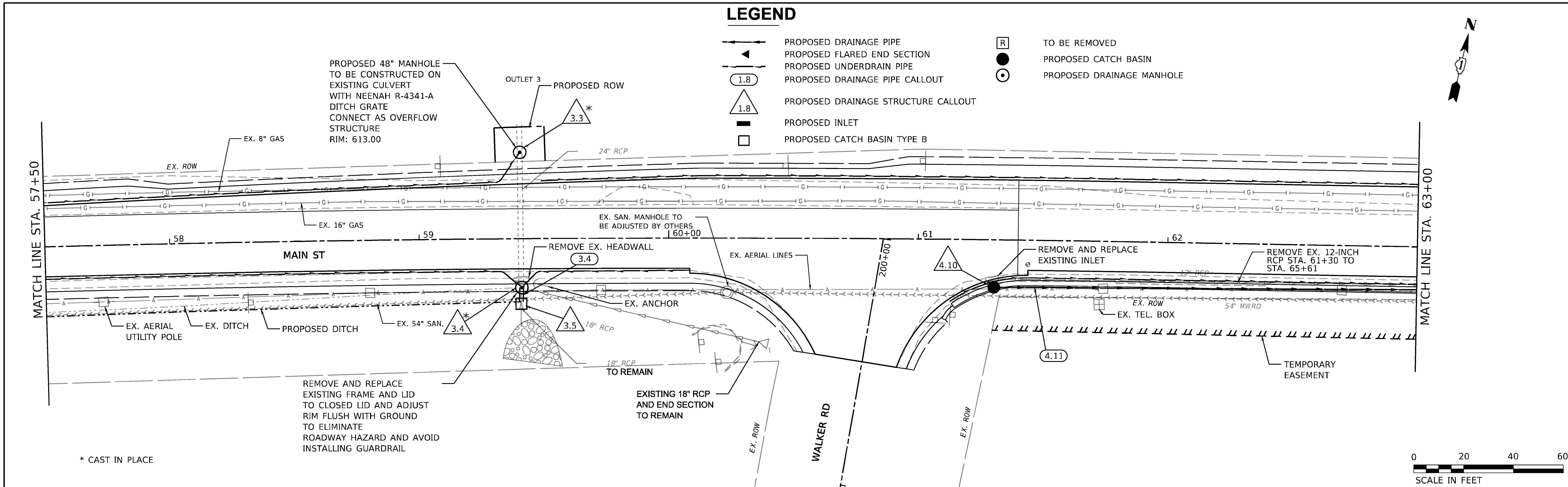

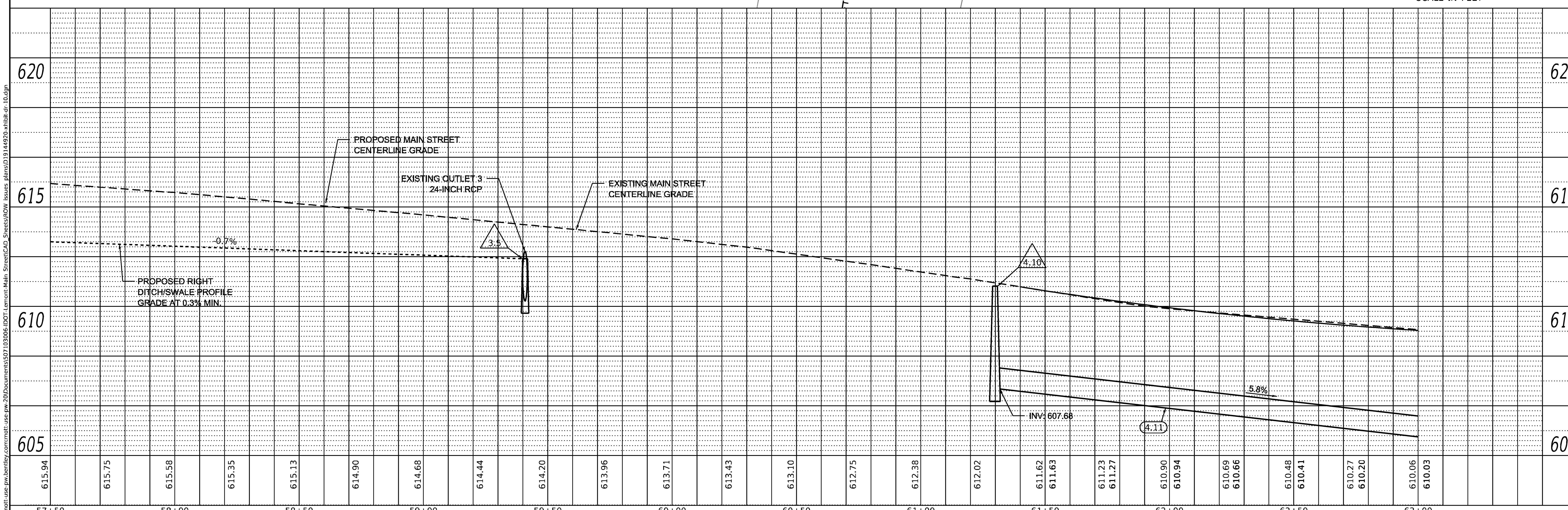

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.O. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY — DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK, NO. — BY — DATE

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MOTT MACDONALD — 10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

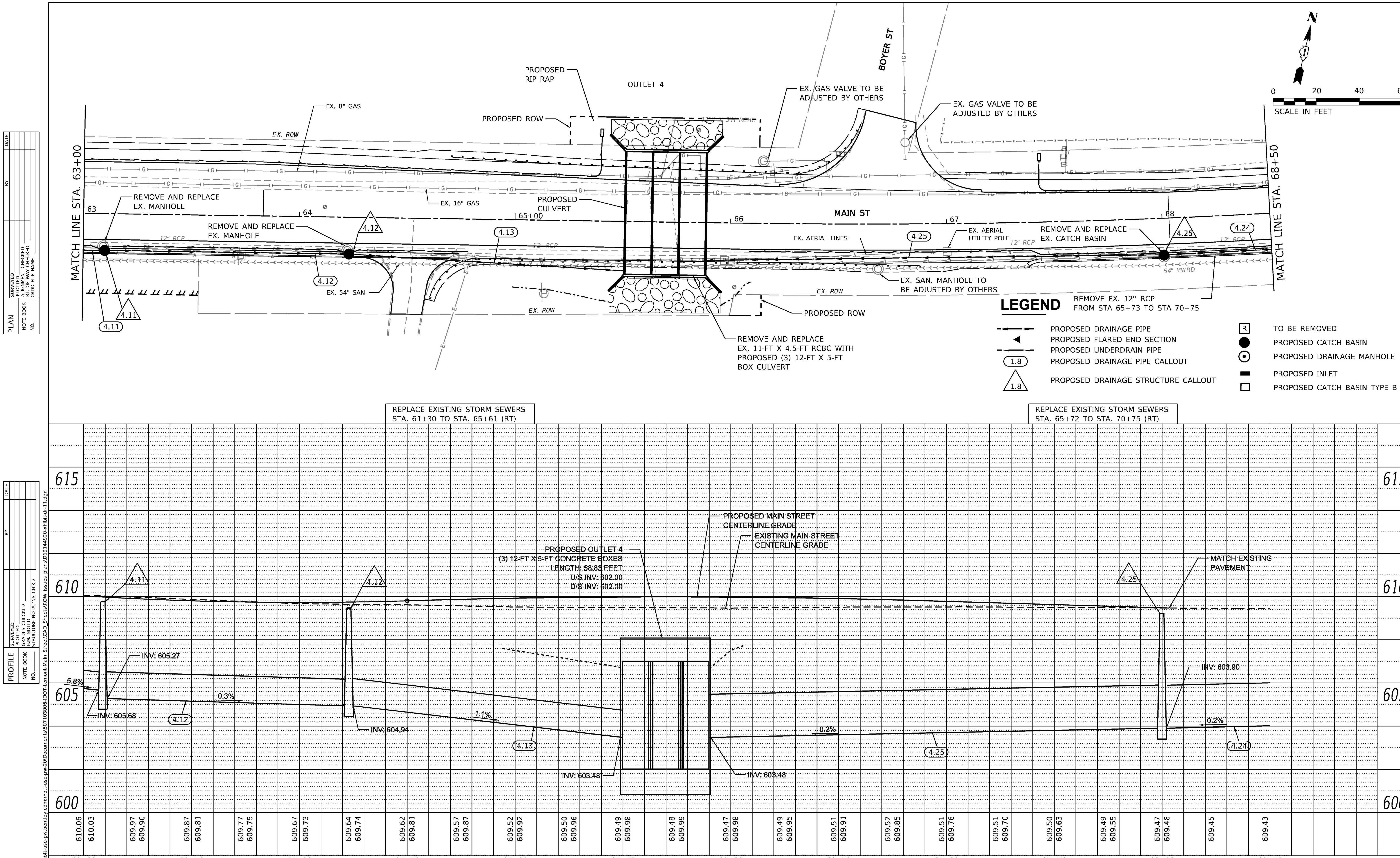
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-10 OF DR-29 SHEETS | STA. 57+50 TO STA. 63+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	101

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



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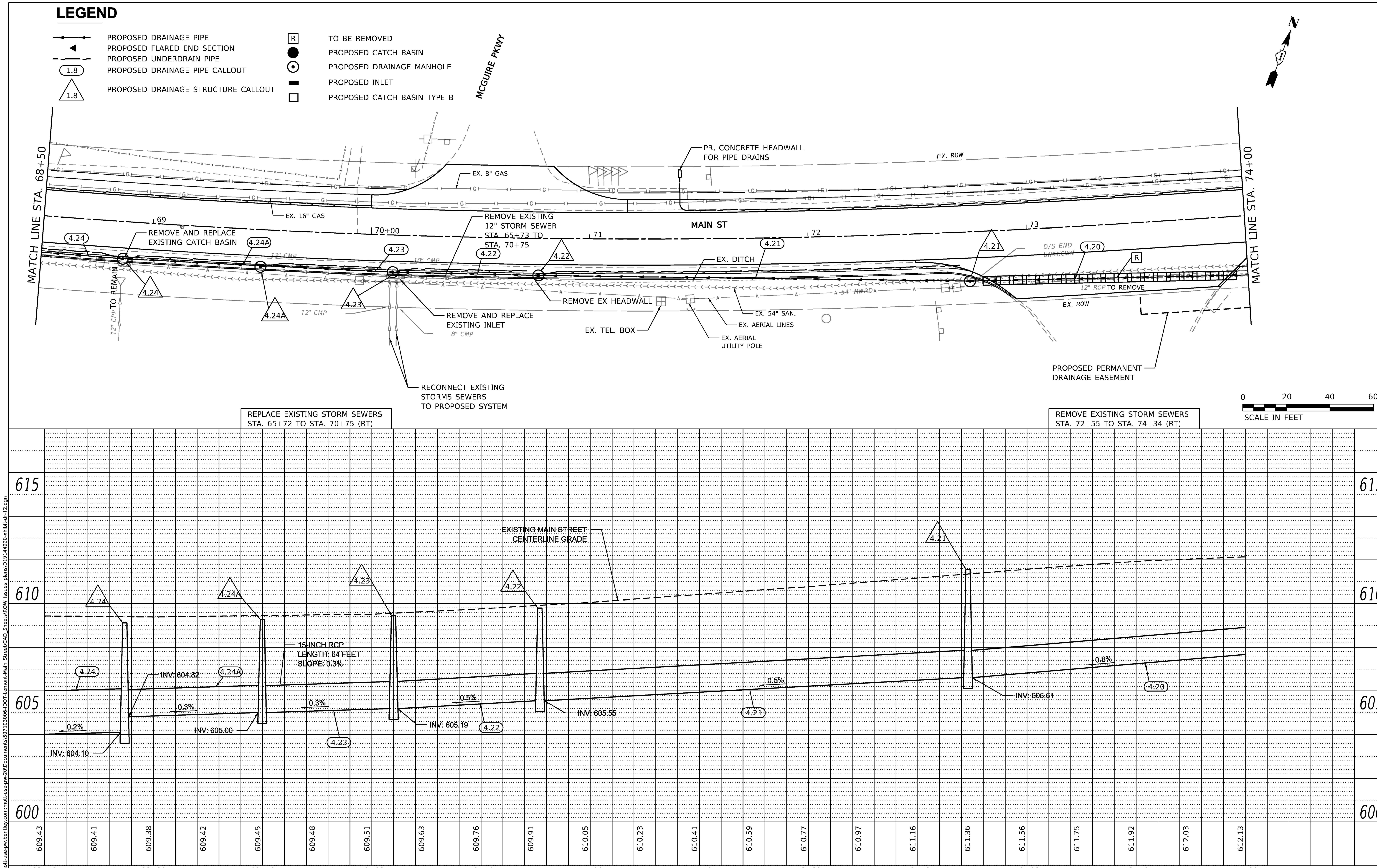
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 DRAINAGE AND UTILITY PLAN AND PROFILE
		DRAWN - JJJ	REVISED -		
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -		
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -		SCALE: 1"=20' | SHEET DR-11 OF DR-29 SHEETS | STA. 63+00 TO STA. 68+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	102
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK / NO. / BY / DATE

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MOTT MACDONALD — 10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

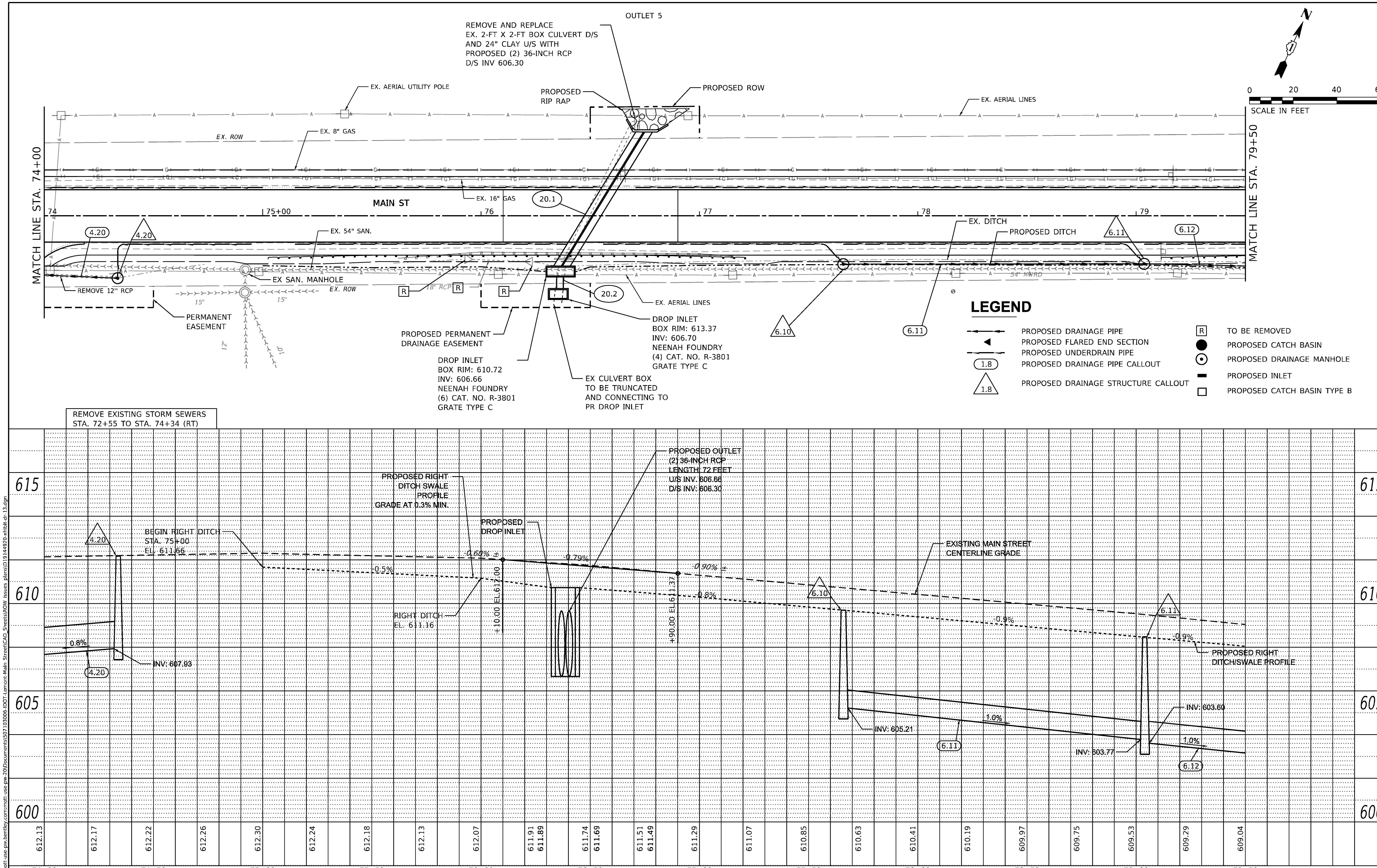
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-12 OF DR-29SHEETS | STA. 68+50 TO STA. 74+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	103

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHECKED, NOTE BOOK NO. — BY — DATE

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MOTT MACDONALD — 10 S LaSalle St. #2520, Chicago, IL 60603

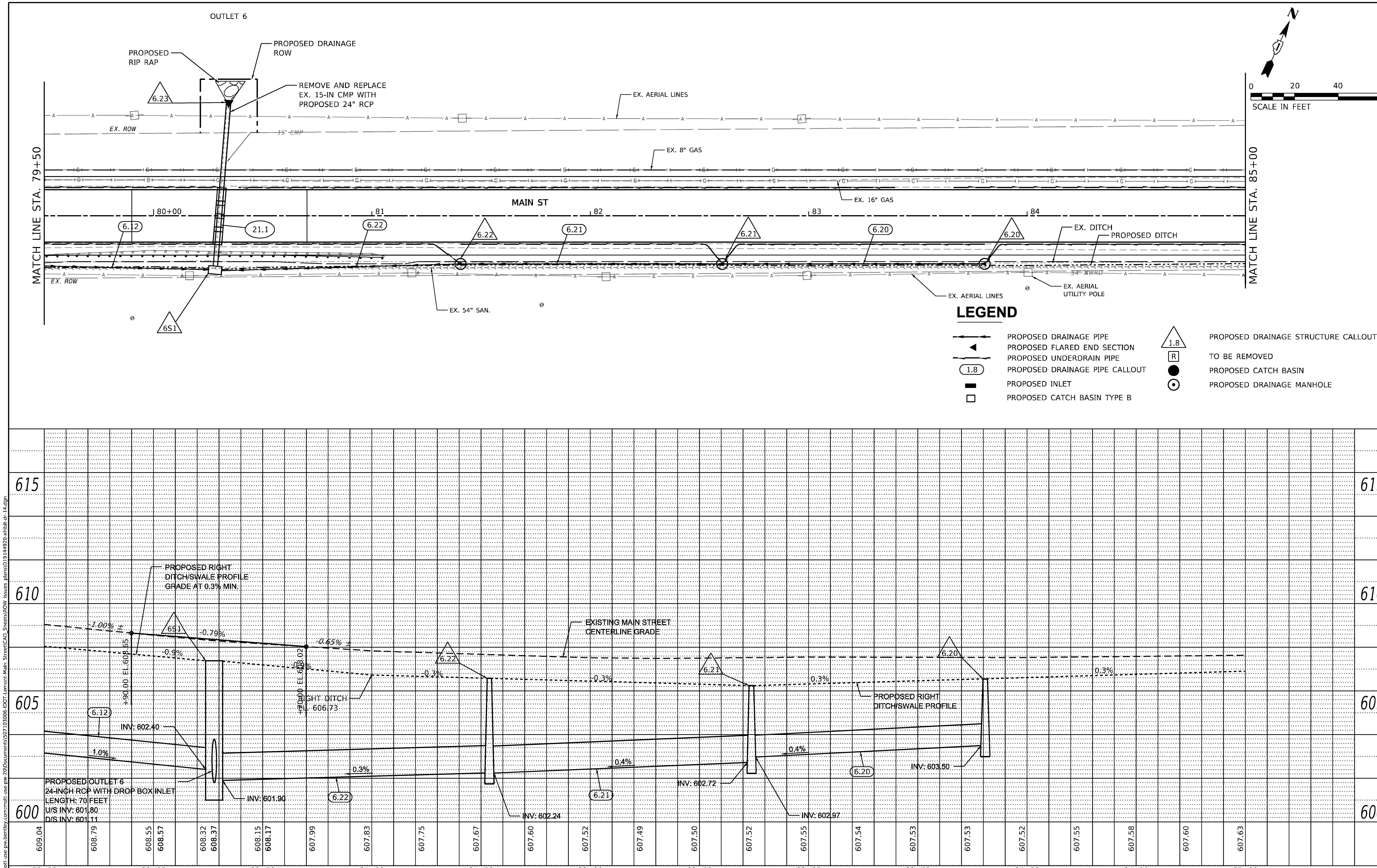
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-13 OF DR-29SHEETS | STA. 74+00 TO STA. 79+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	104
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



PLAN	NOTE BOOK NO.	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME	BY	DATE

PROFILE	NOTE BOOK NO.	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED	BY	DATE

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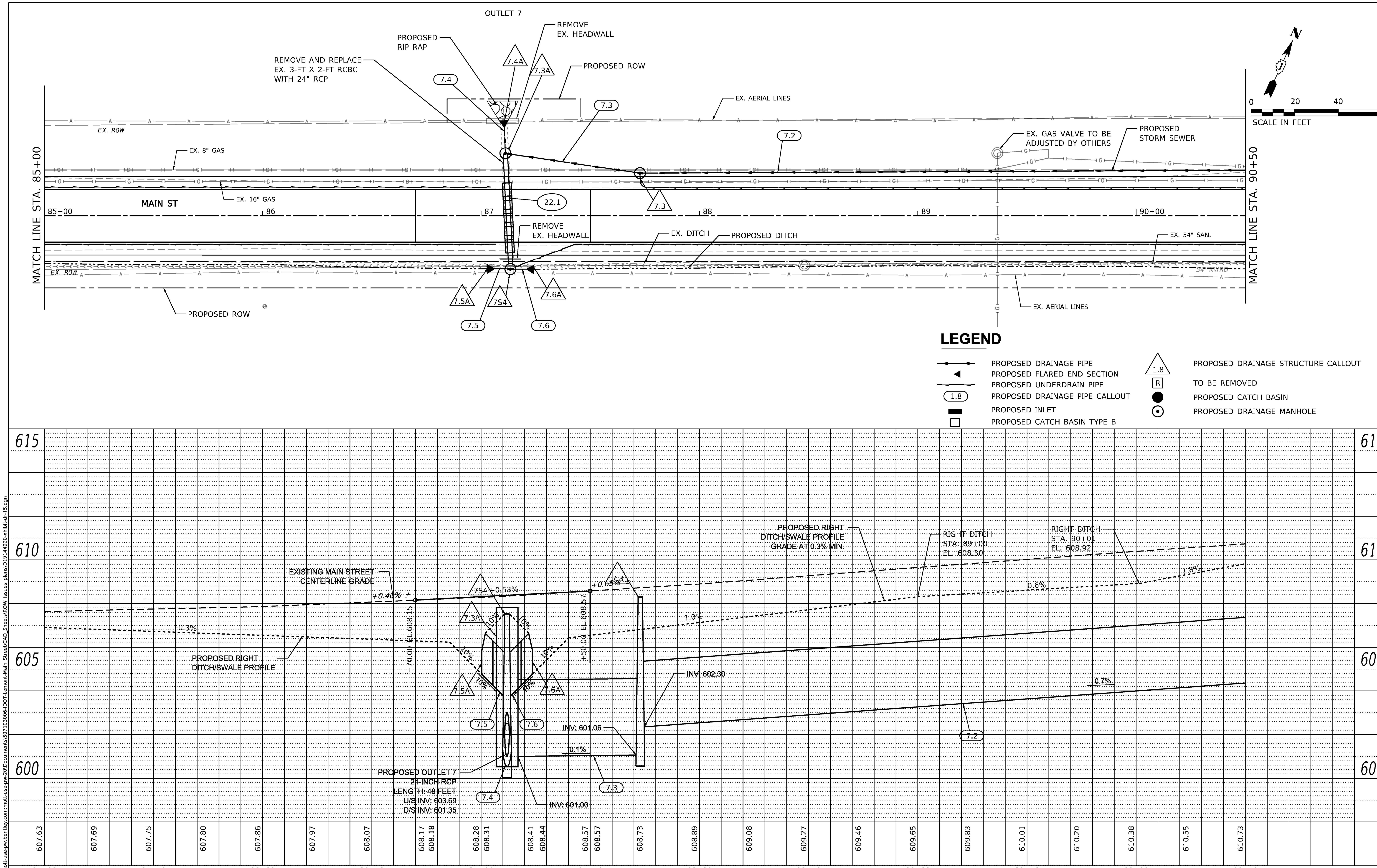
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-14 OF DR-29 SHEETS | STA. 79+50 TO STA. 85+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	105
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

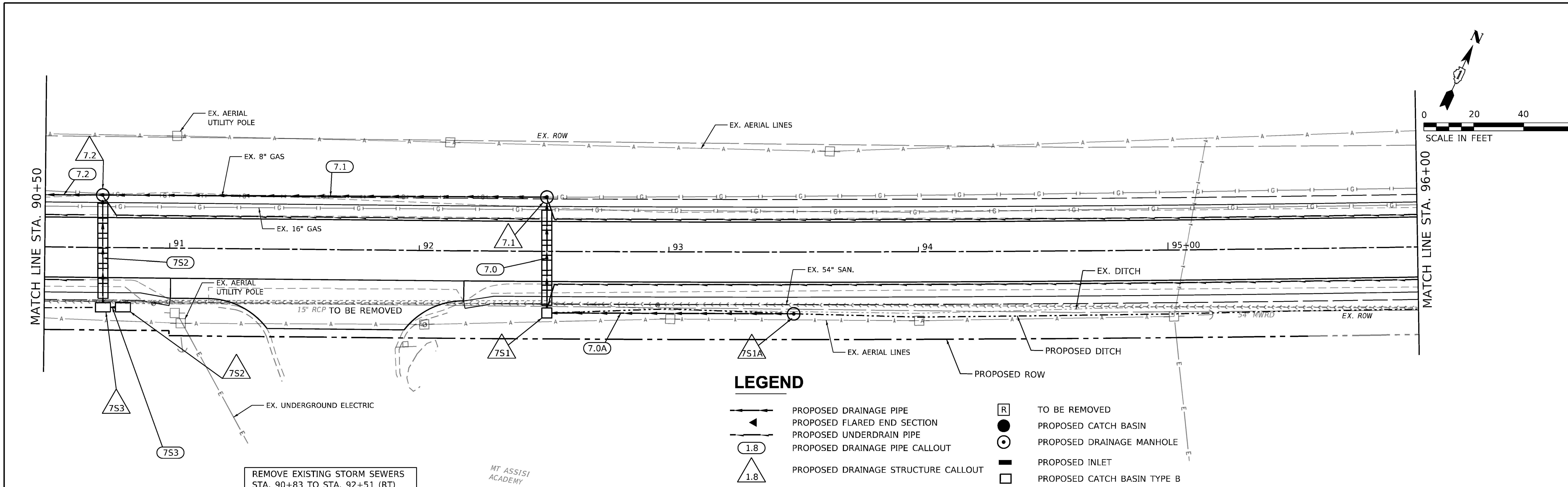
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

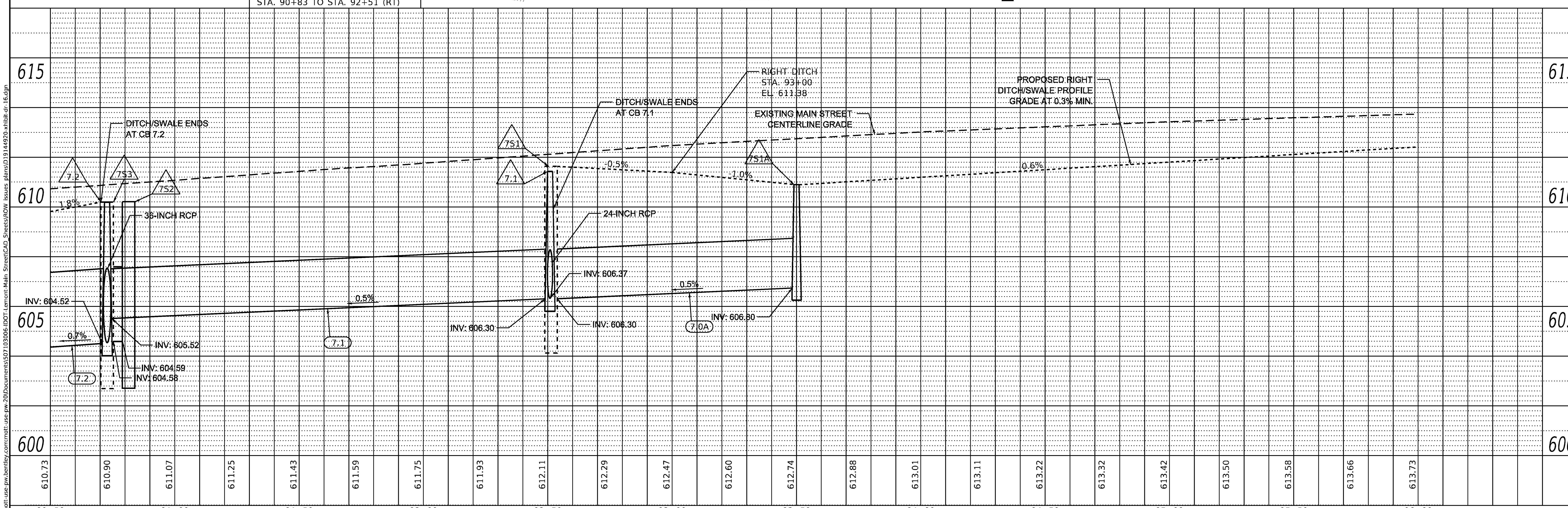
SCALE: 1"=20' | SHEET DR-15 OF DR-29 SHEETS | STA. 85+00 TO STA. 90+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	106

CONTRACT NO. 62L30

ILLINOIS FED. AID PROJECT





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NOTE BOOK	PLOTTED		
NO.____	ALIGNMENT CHECKED		
	R.T. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.____	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTAT'NS CH'KD		

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

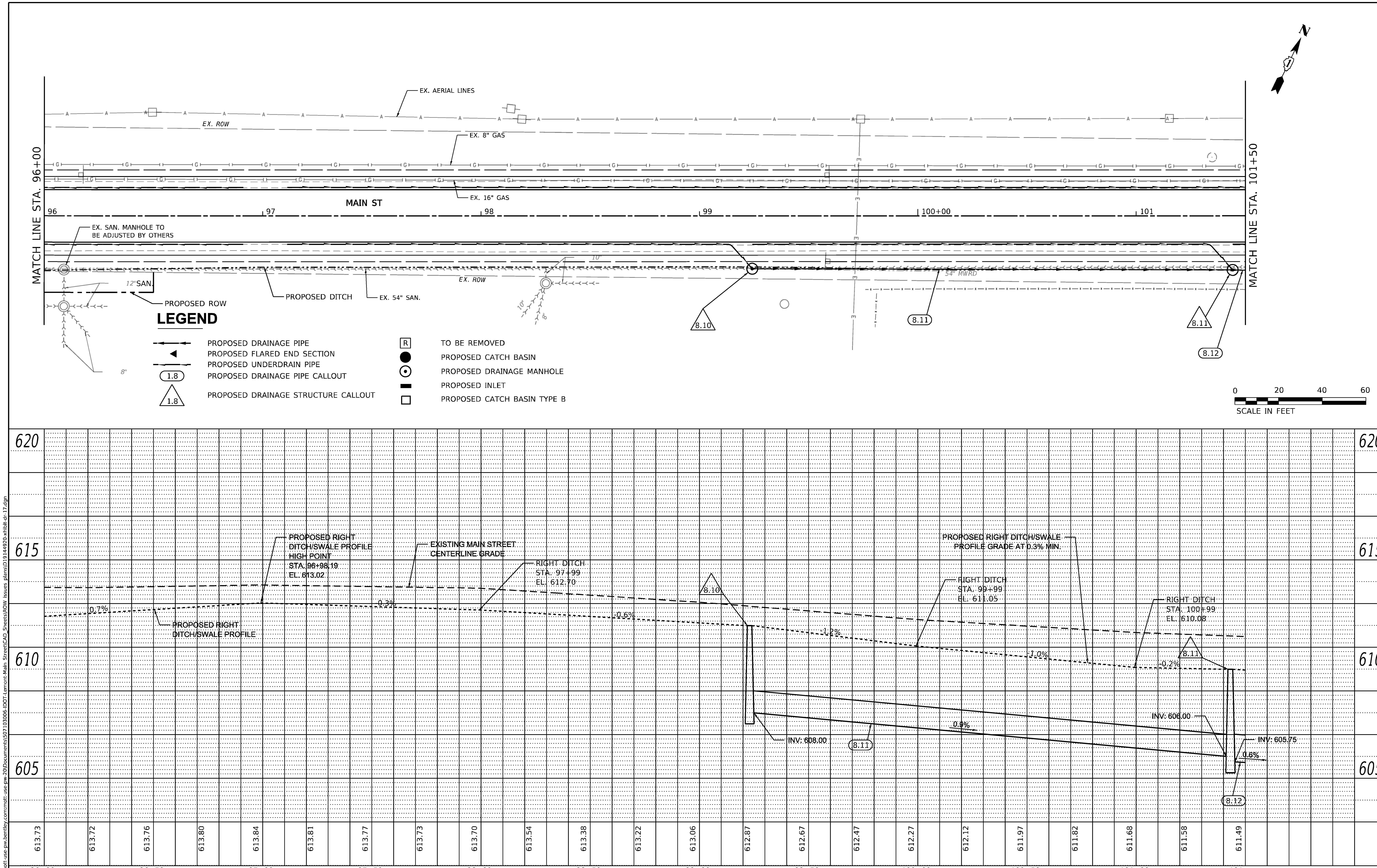
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-16 OF DR-29SHEETS | STA. 90+50 TO STA. 96+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	107

CONTRACT NO. 62L30
ILLINOIS | FED. AID PROJECT



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / DR. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK / NO. / BY / DATE

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MOTT MACDONALD — 10 S LaSalle St. #2520, Chicago, IL 60603

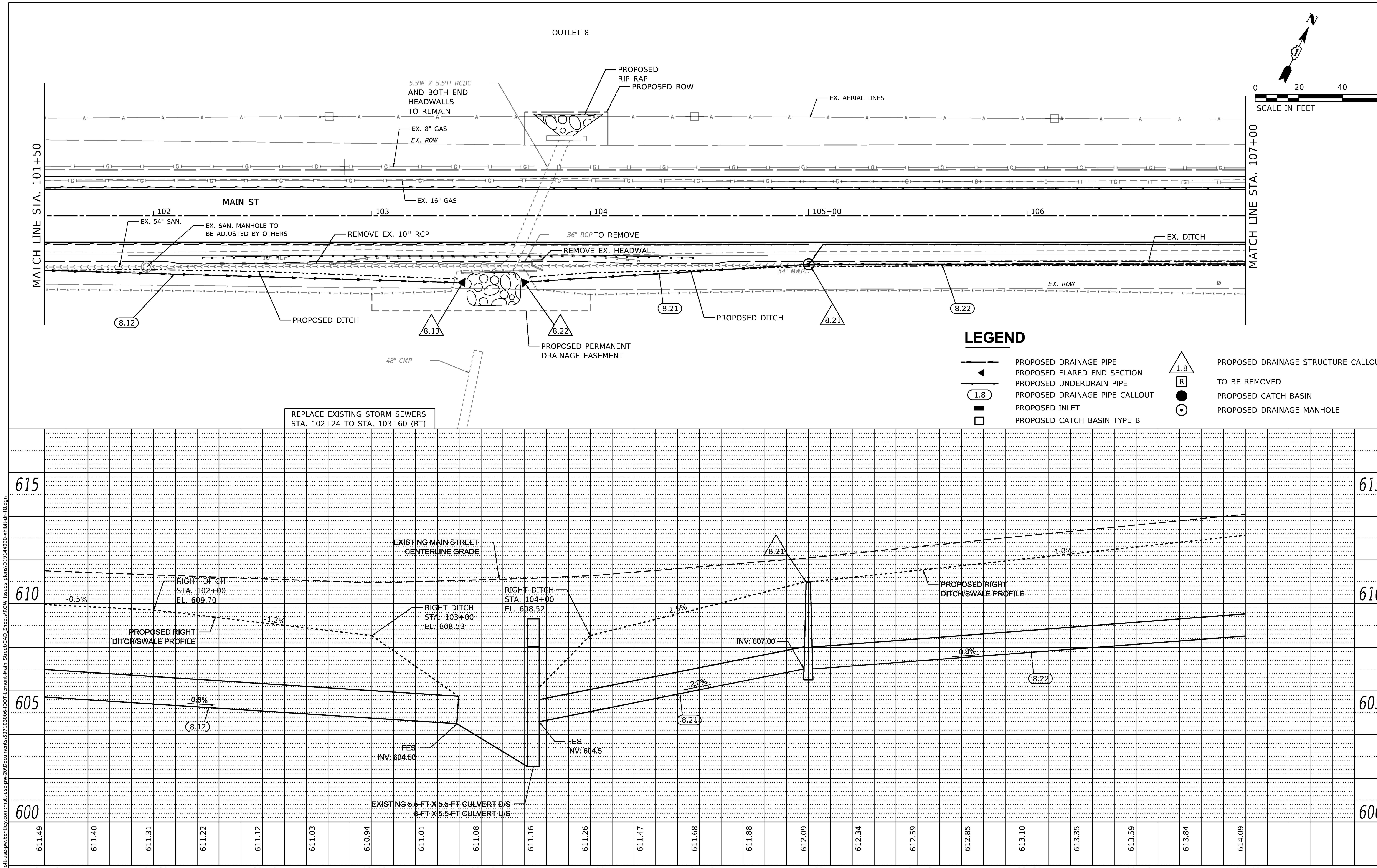
USER NAME = iso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-17 OF DR-29 SHEETS | STA. 96+00 TO STA. 101+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	108
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK / NO. / BY / DATE

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

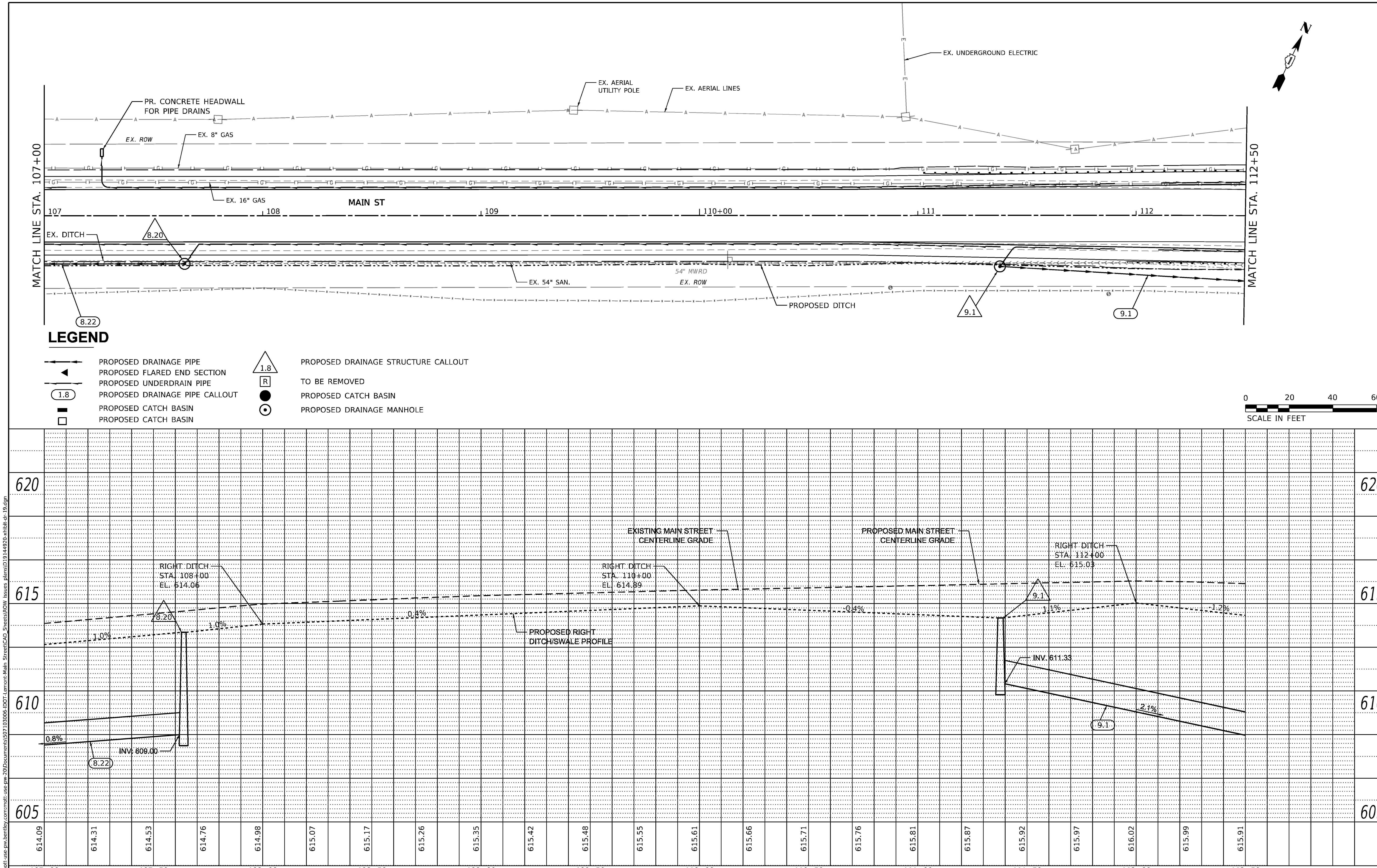
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-18 OF DR-29 SHEETS | STA. 101+50 TO STA. 107+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	109

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

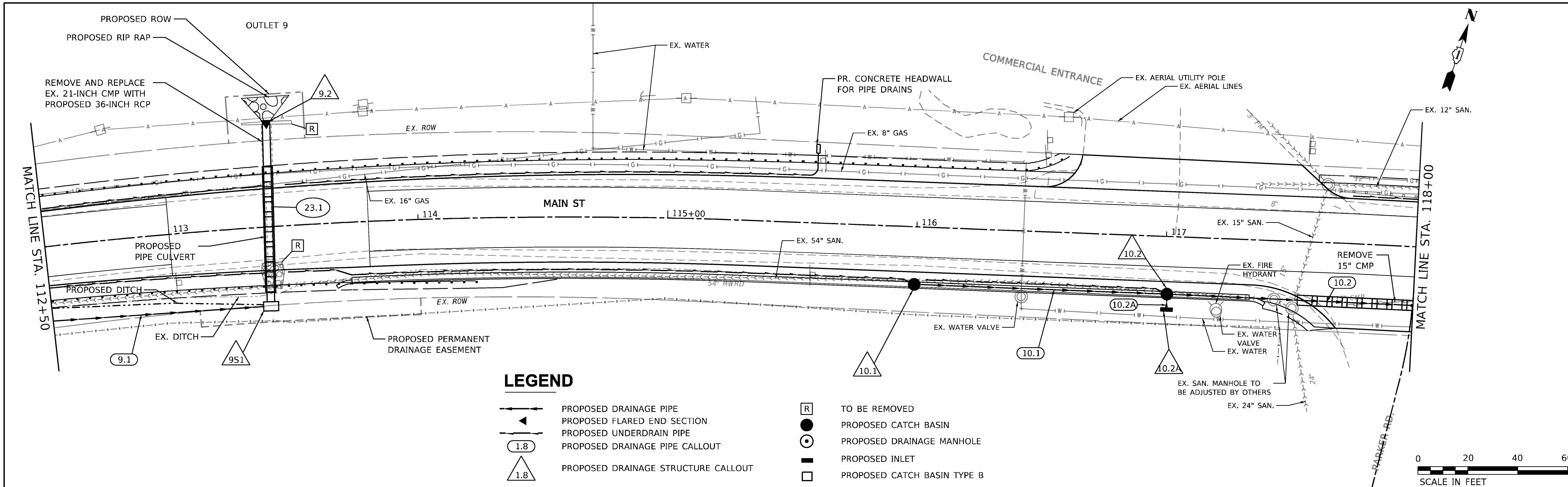
USER NAME = iso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

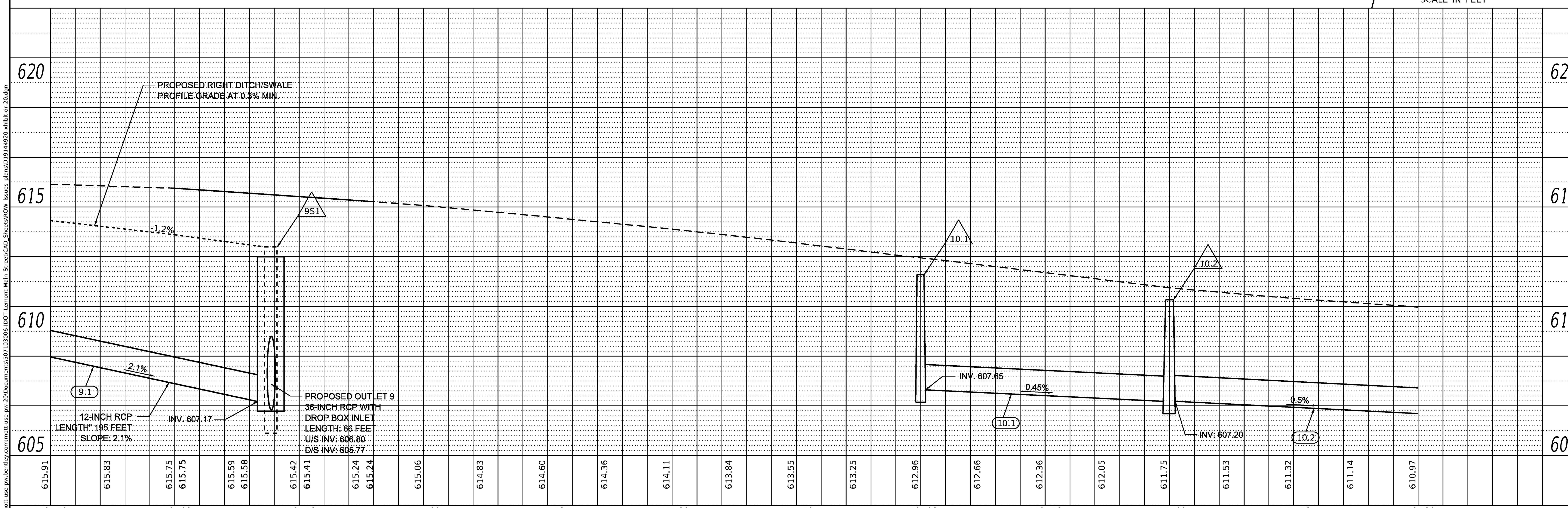
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-19 OF DR-29 SHEETS | STA. 107+00 TO STA. 112+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	110
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		





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PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

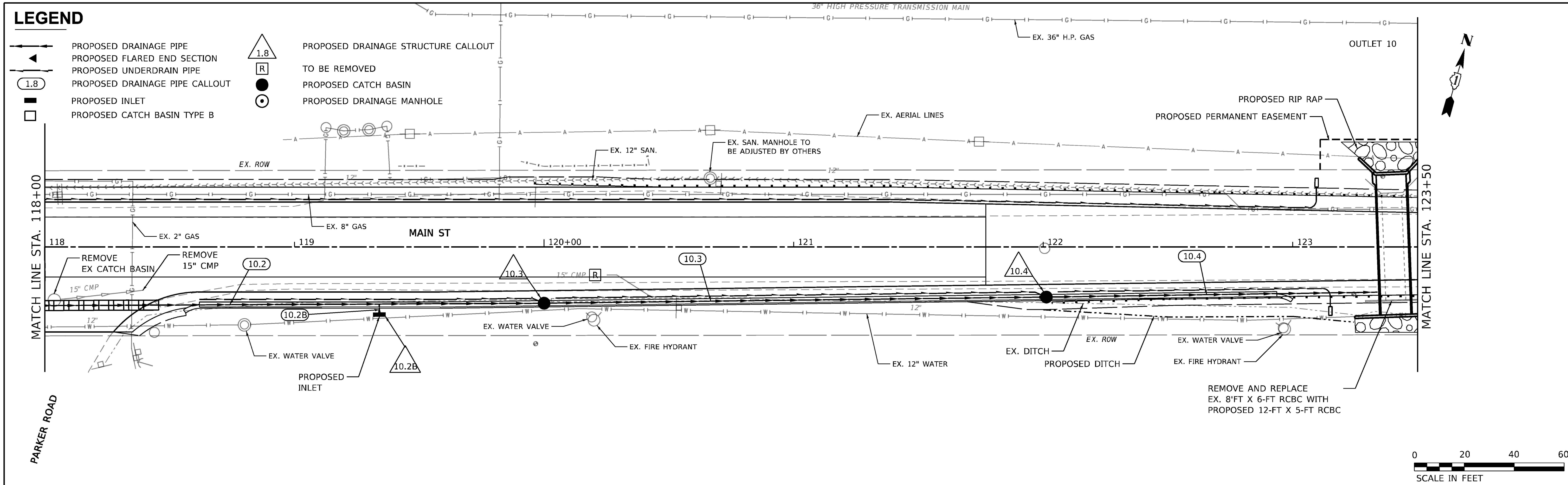
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

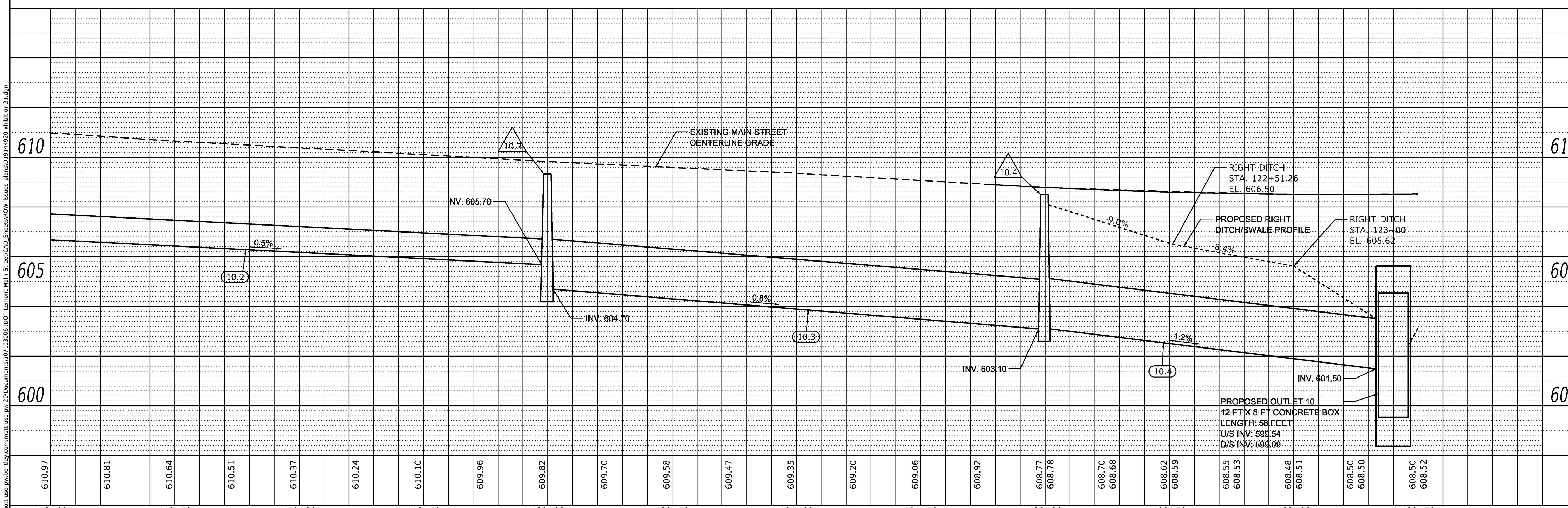
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20'	SHEET DR-20 OF DR-29SHEETS	STA. 112+50	TO STA. 118+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	111
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	





MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

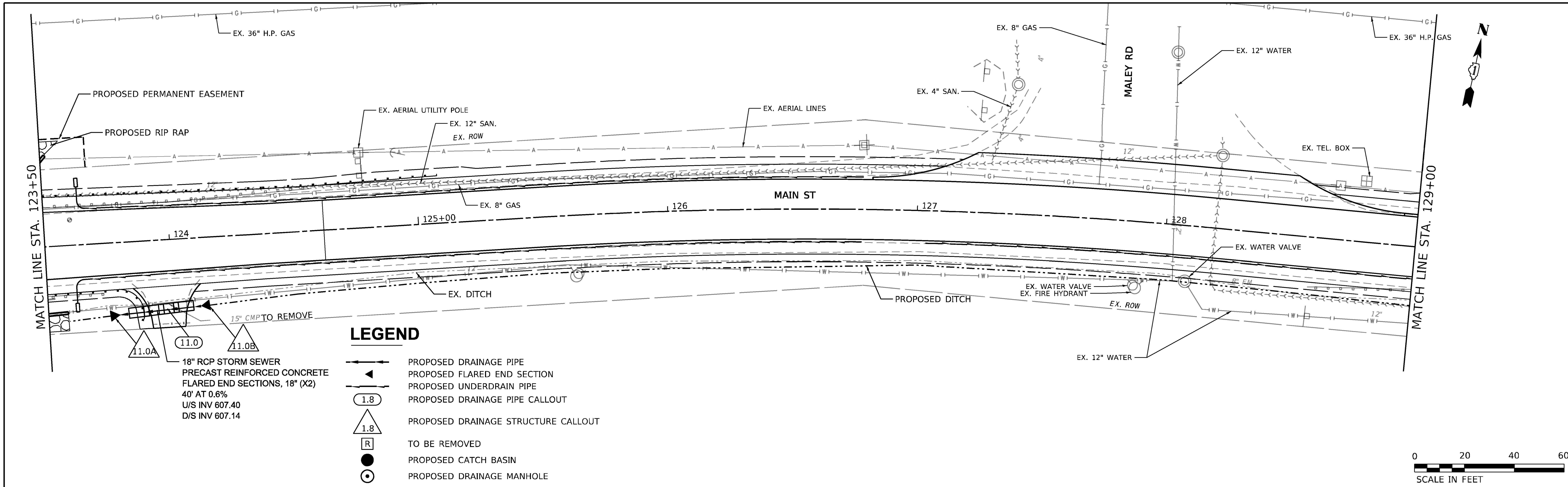
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

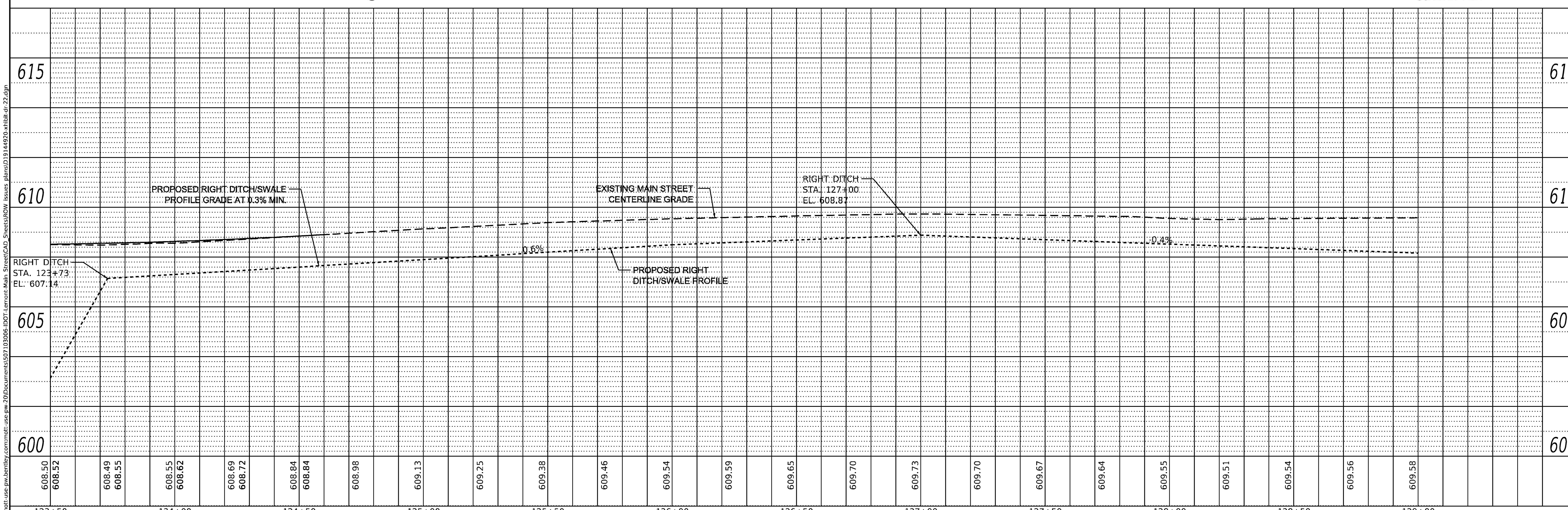
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-21 OF DR-29 SHEETS | STA. 118+00 TO STA. 123+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	112

CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

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MOTT MACDONALD — 10 S LaSalle St. #2520, Chicago, IL 60603

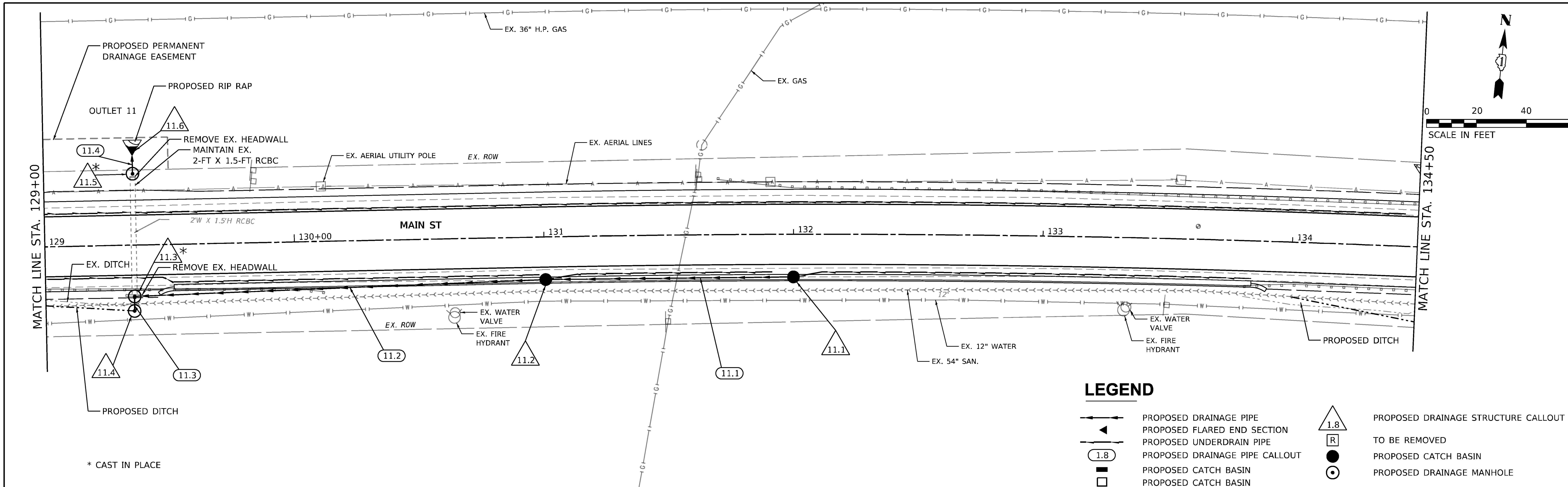
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

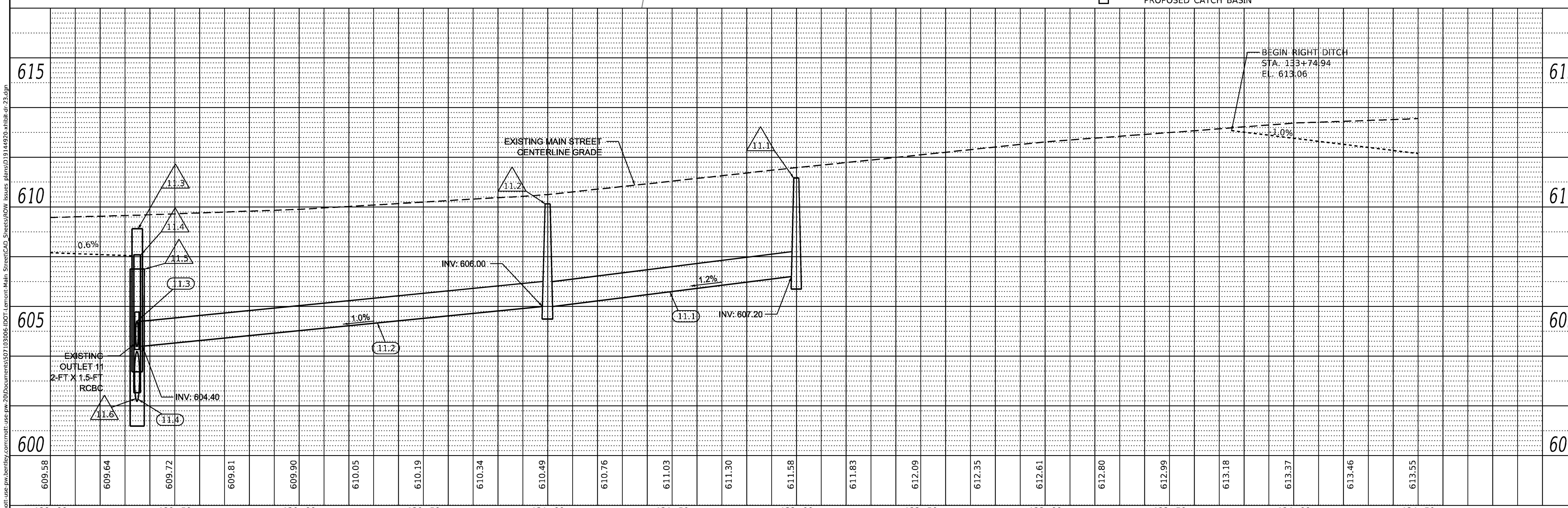
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-22 OF DR-29 SHEETS | STA. 123+50 TO STA. 129+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	113
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	





PLAN	NOTE BOOK NO.___	SURVEYED	PLOTTED	ALIGNMENT CHECKED	R.T. OF WAY CHECKED	CADD FILE NAME	BY	DATE

PROFILE	NOTE BOOK NO.___	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTAT'NS CHT'KD	BY	DATE

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

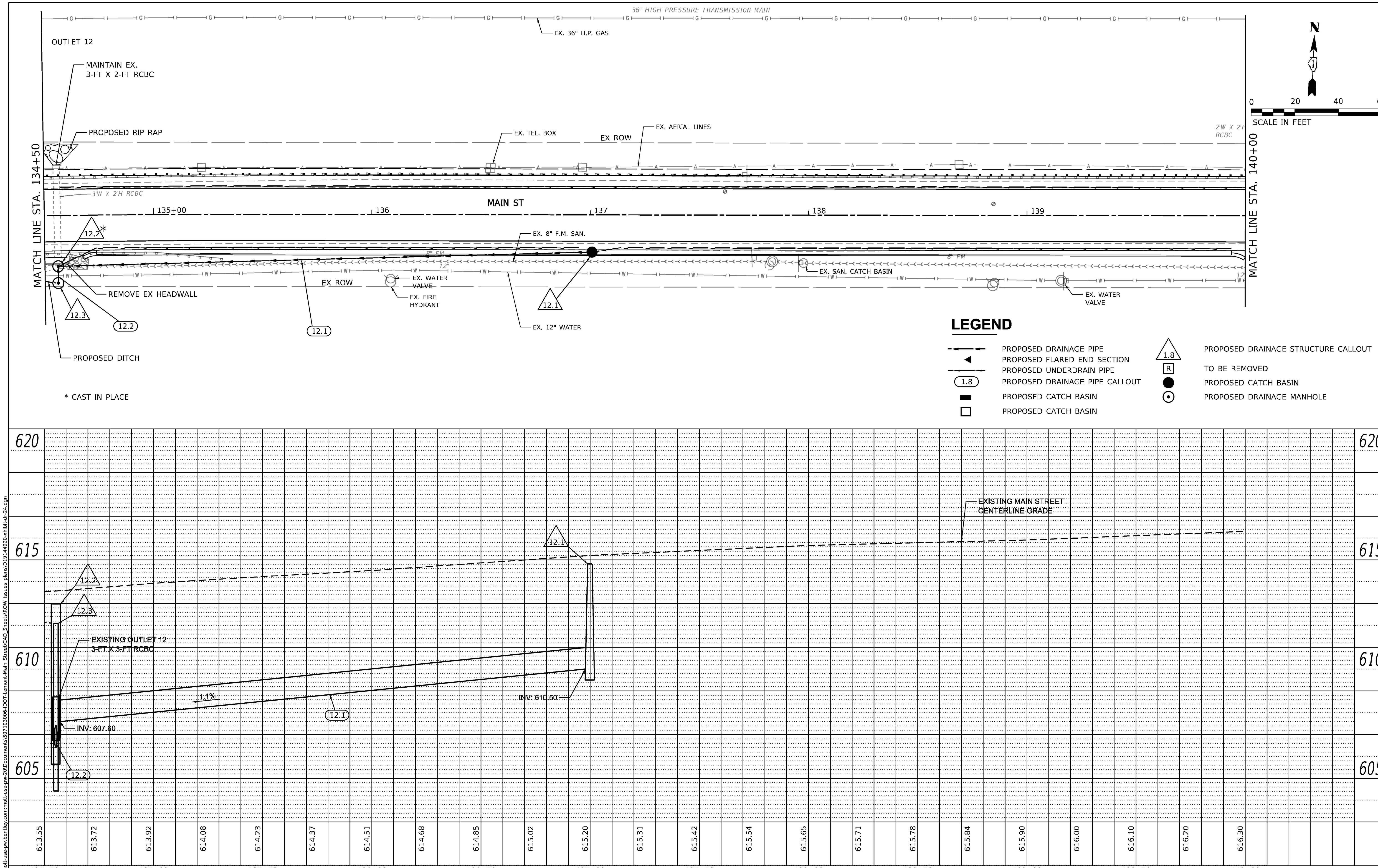
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-23 OF DR-29 SHEETS | STA. 129+00 TO STA. 134+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	114
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



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MOTT MACDONALD
10 S LaSalle St. #2520,
Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - JJJ	REVISED -
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

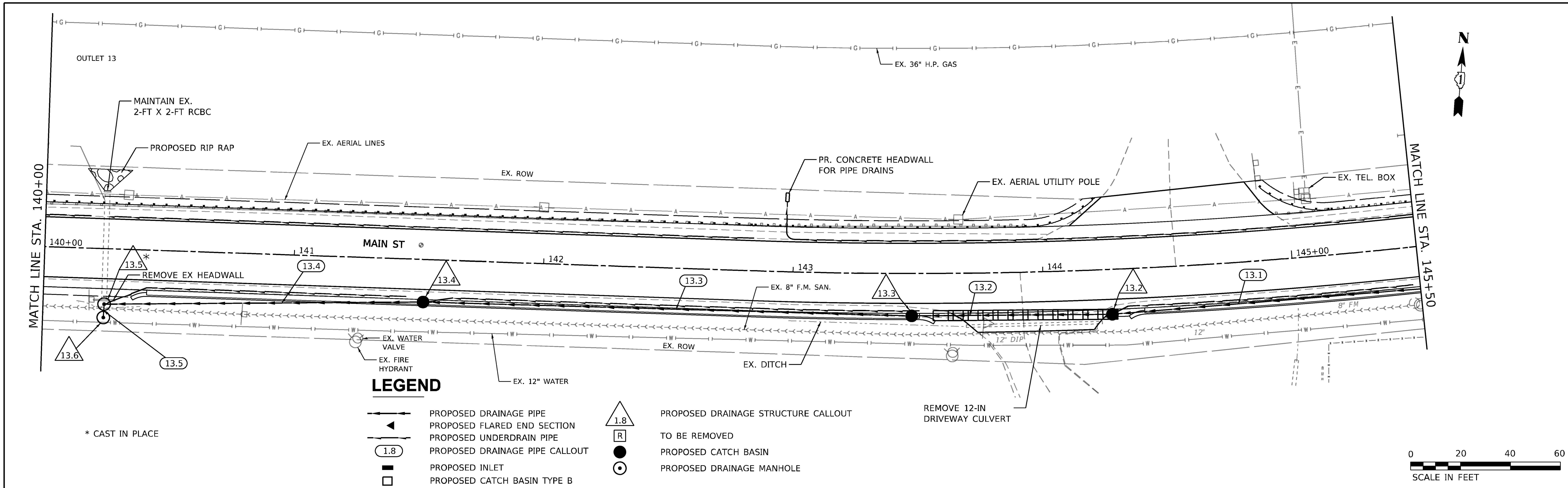
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

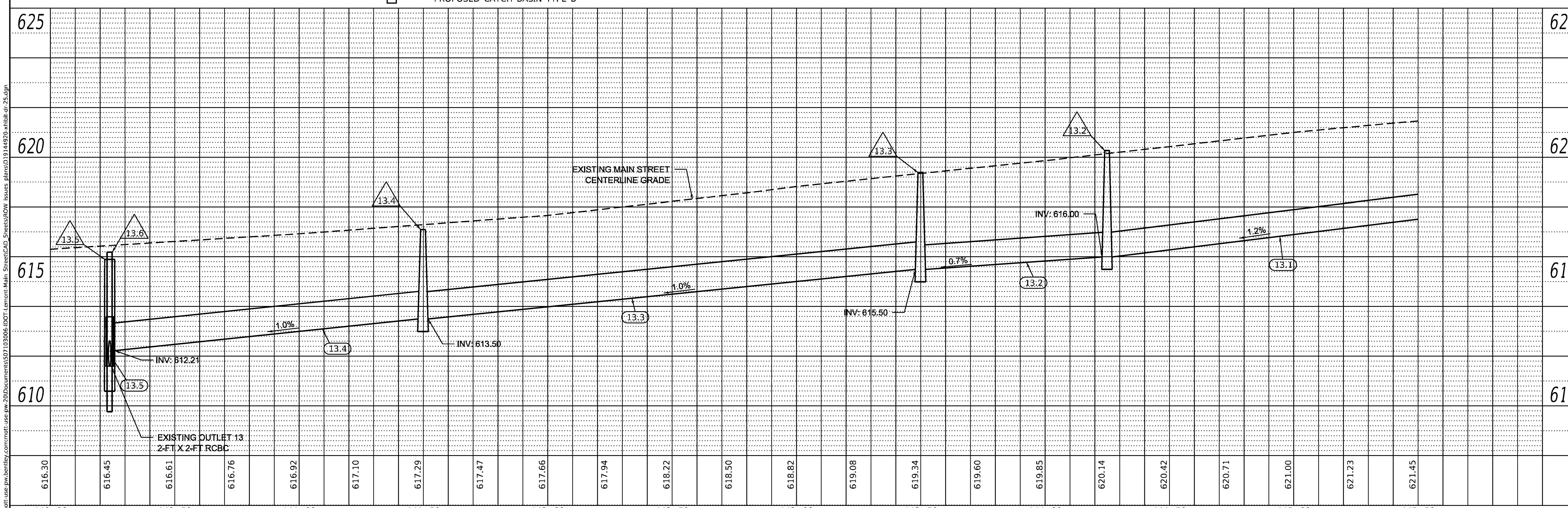
SCALE: 1"=20' | SHEET DR-24 OF DR-29SHEETS | STA. 134+50 TO STA. 140+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	115

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT





MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-25 OF DR-29 SHEETS | STA. 140+00 TO STA. 145+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	116

CONTRACT NO. 62L30

ILLINOIS FED. AID PROJECT

MODEL: Default
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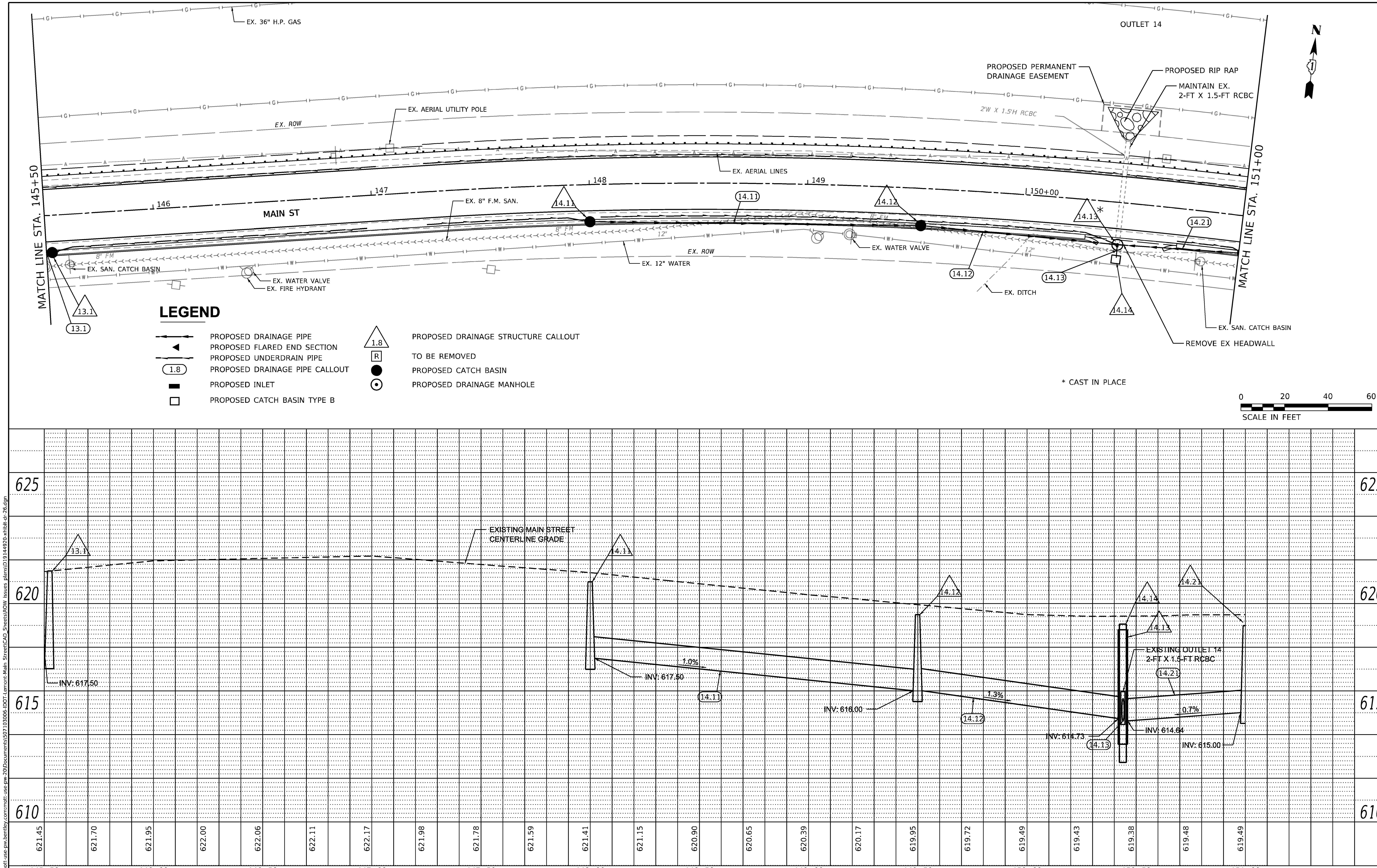
PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.O.W. CHECKED, CADD FILE NAME, NOTE BOOK NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK NO., BY, DATE



PLAN	SURVEYED	PLOTTED	ALIGNMENT CHECKED	R.O.W. CHECKED	CADD FILE NAME	NOTE BOOK NO.	BY	DATE

PROFILE	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATIONS CHECKED	NOTE BOOK NO.	BY	DATE

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -		
	DRAWN - JJJ	REVISED -		
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -		
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -		

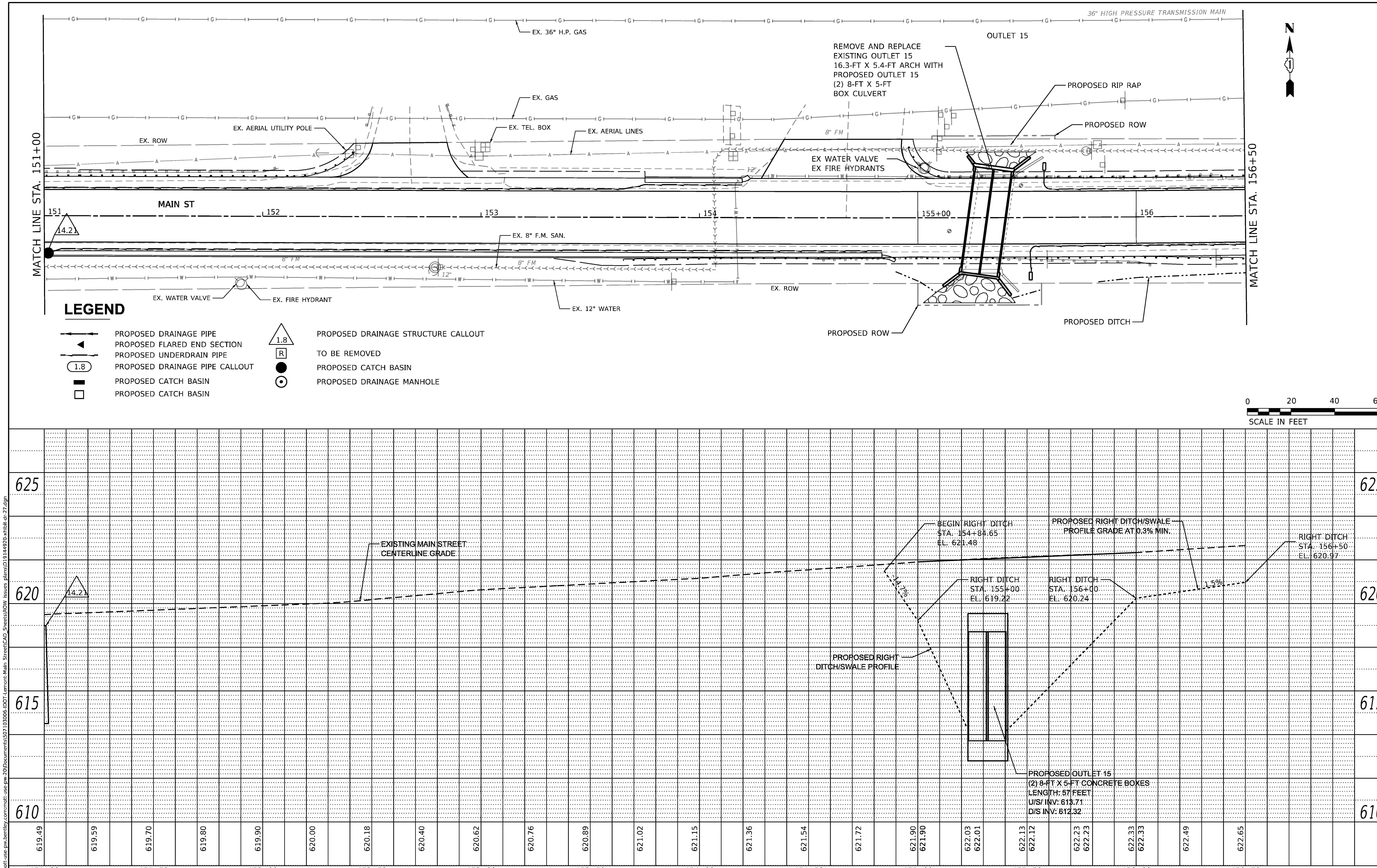
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-26 OF DR-29 SHEETS | STA. 145+50 TO STA. 151+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	117

CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT



PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.O.W. CHECKED, CADD FILE NAME, NOTE BOOK NO.

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHT'KD, NOTE BOOK NO.

MODEL: Default

MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

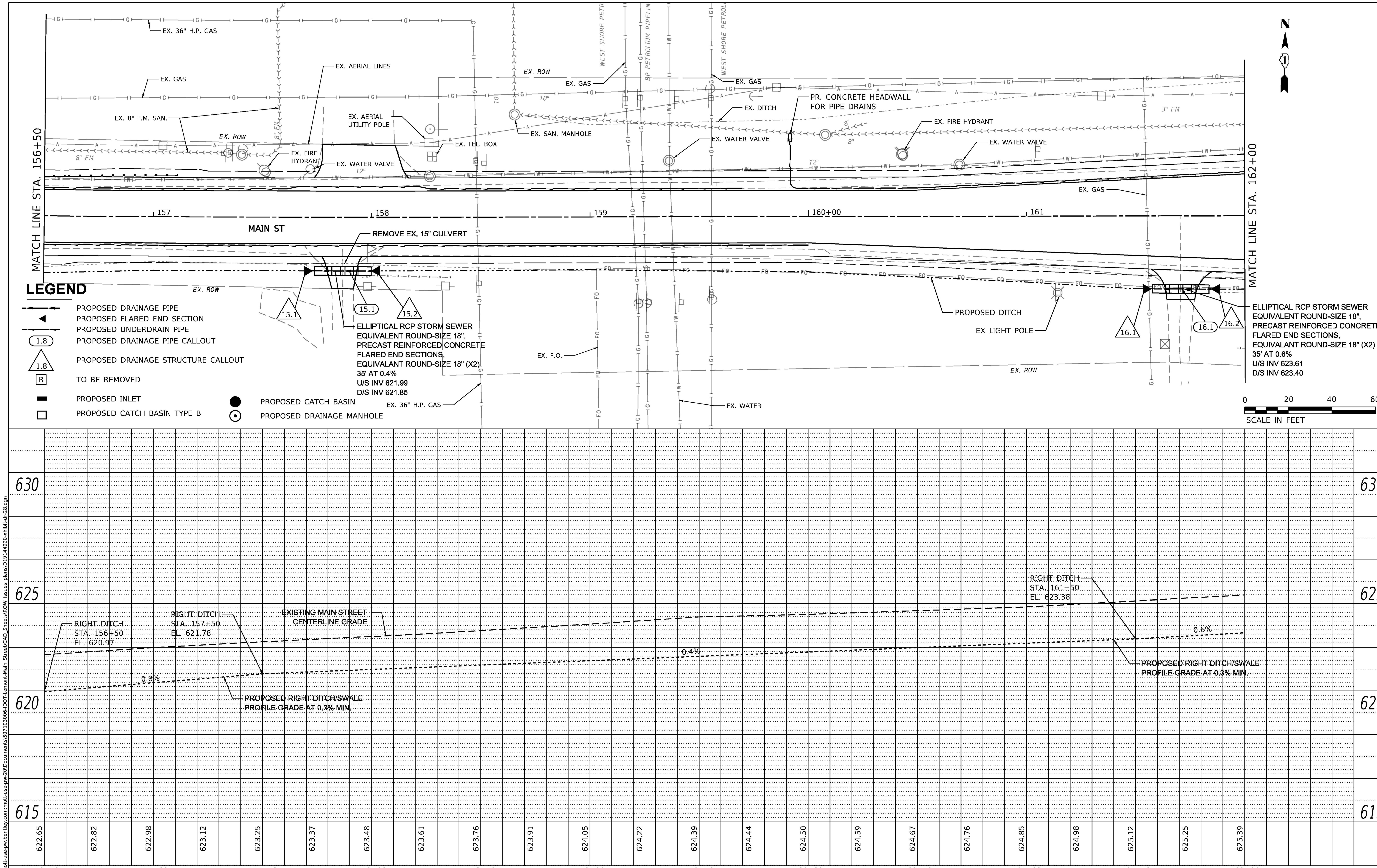
MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-27 OF DR-29 SHEETS | STA. 151+00 TO STA. 156+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	118

CONTRACT NO. 62L30

ILLINOIS FED. AID PROJECT



PLAN	SURVEYED	PLOTTED	ALIGNMENT CHECKED	R.O. OF WAY CHECKED	CADD FILE NAME
NOTE BOOK	NO.				

PROFILE	SURVEYED	PLOTTED	GRADES CHECKED	BM. NOTED	STRUCTURE NOTATIONS CHECKED
NOTE BOOK	NO.				

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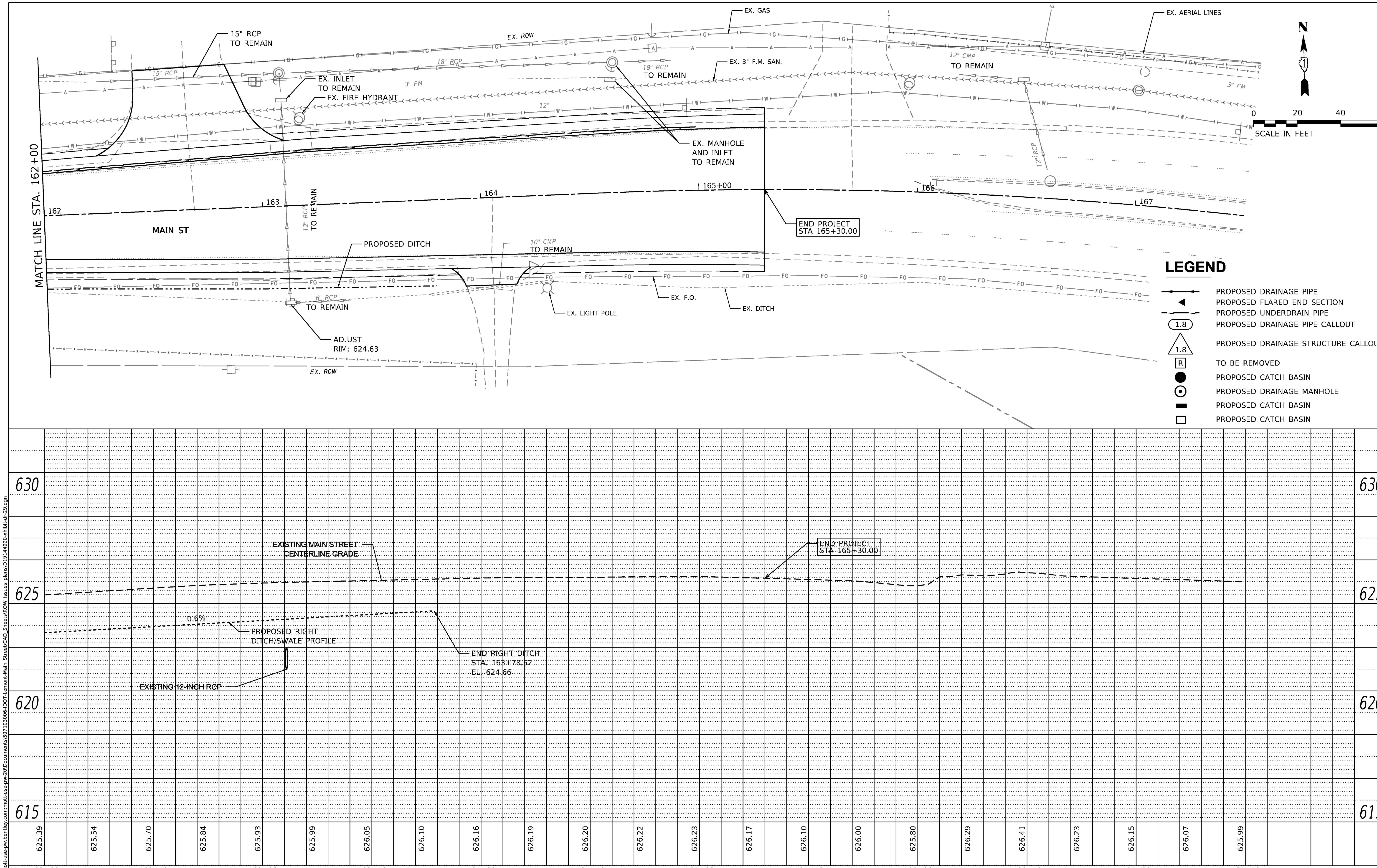
MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -
		DRAWN - JJJ	REVISED -
	PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-28 OF DR-29 SHEETS | STA. 156+50 TO STA. 162+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	119
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 480.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/11/2024	REVISED -	

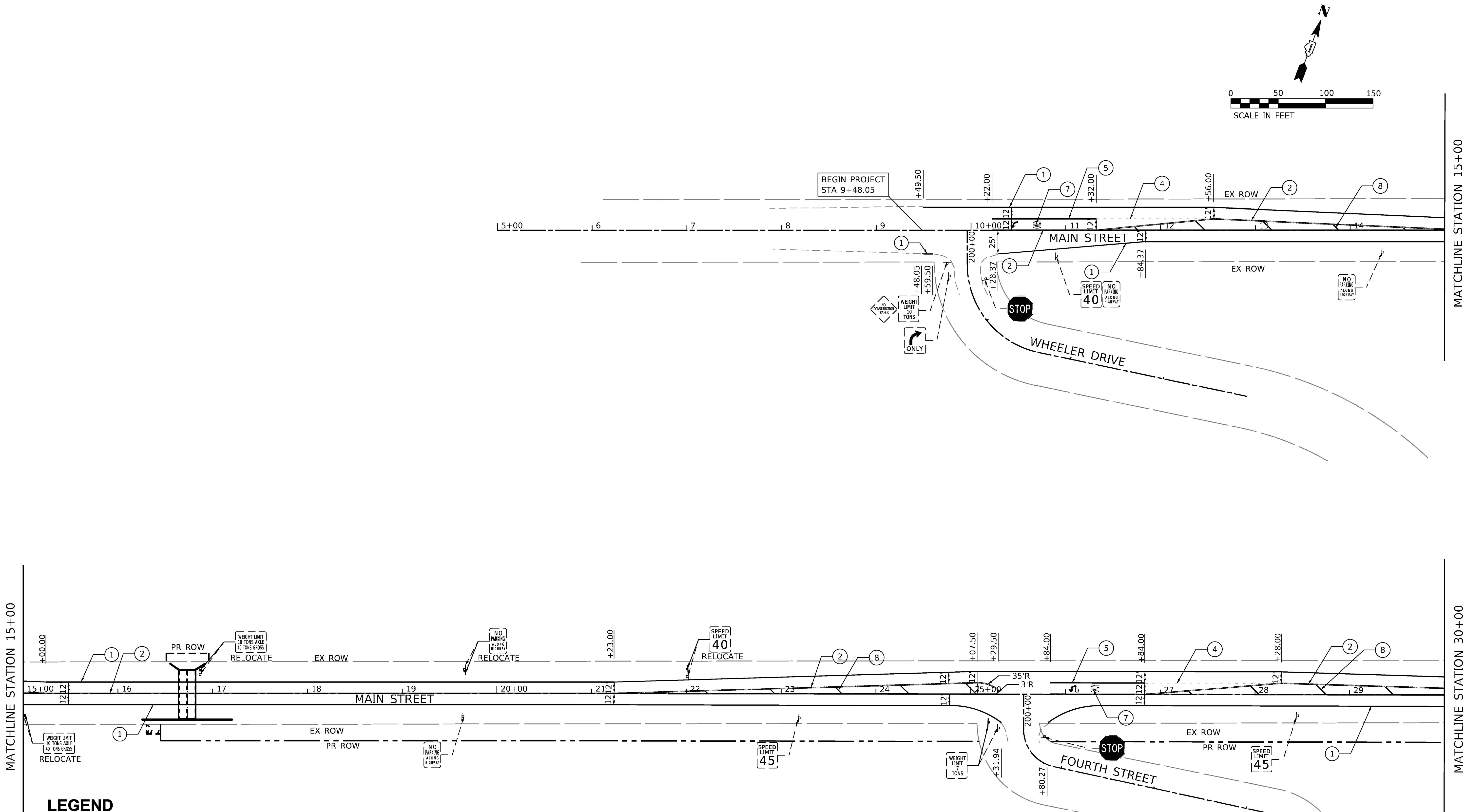
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET DR-29 OF DR-29SHEETS | STA. 162+00 TO STA. 167+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	120

CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT



LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' DASH - 6' SKIP)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 50' C-C
9. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (30' SKIP - 10' DASH)

MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

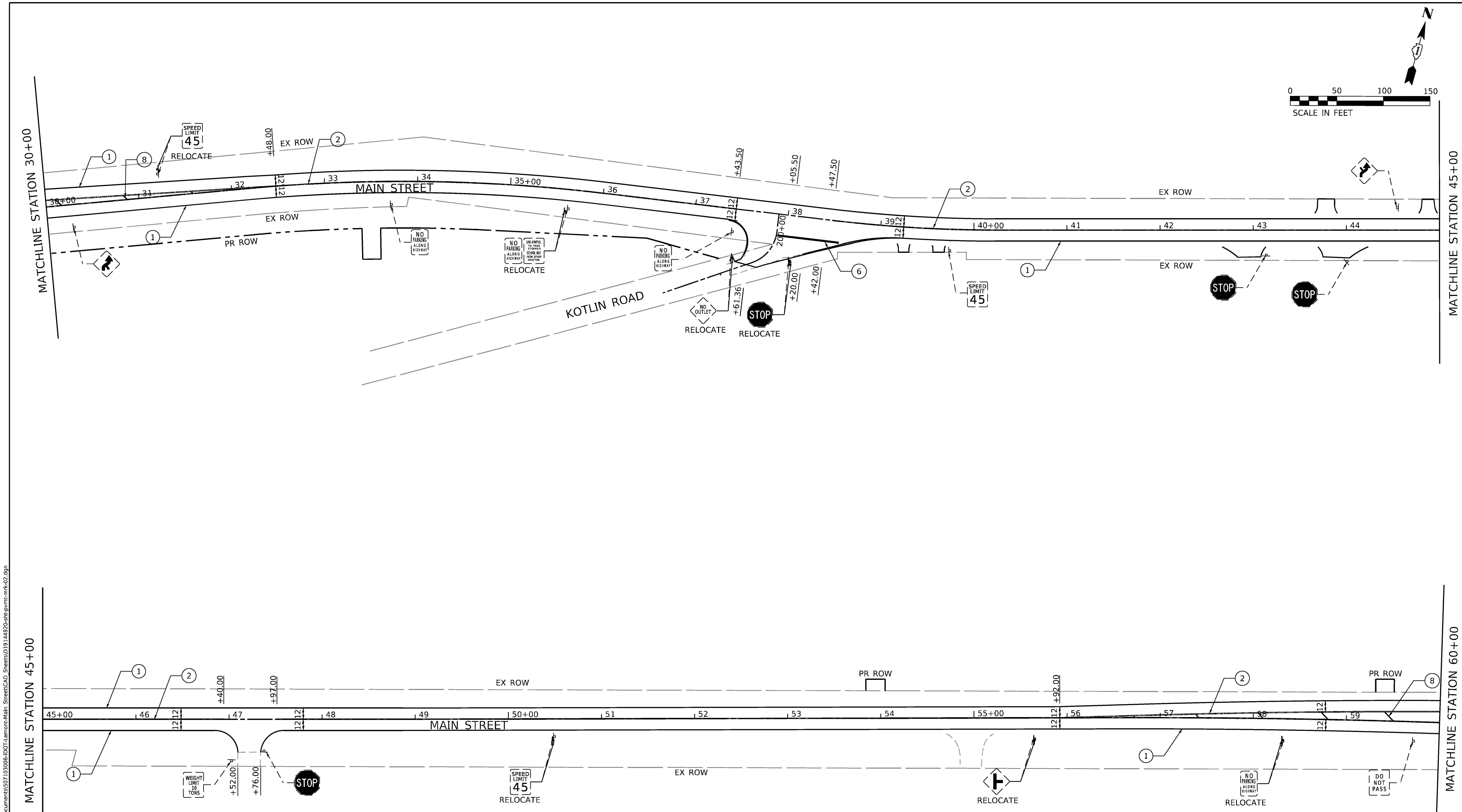
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - AA	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=50' | SHEET PM-01 OF PM-06 SHEETS | STA. 5+00 TO STA. 30+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	121
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (30' SKIP - 10' DASH)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE (2' DASH - 6' SKIP)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE (SOLID)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24'' WHITE (SOLID)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12'' YELLOW AT 50' C-C
9. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (30' SKIP - 10' DASH)

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

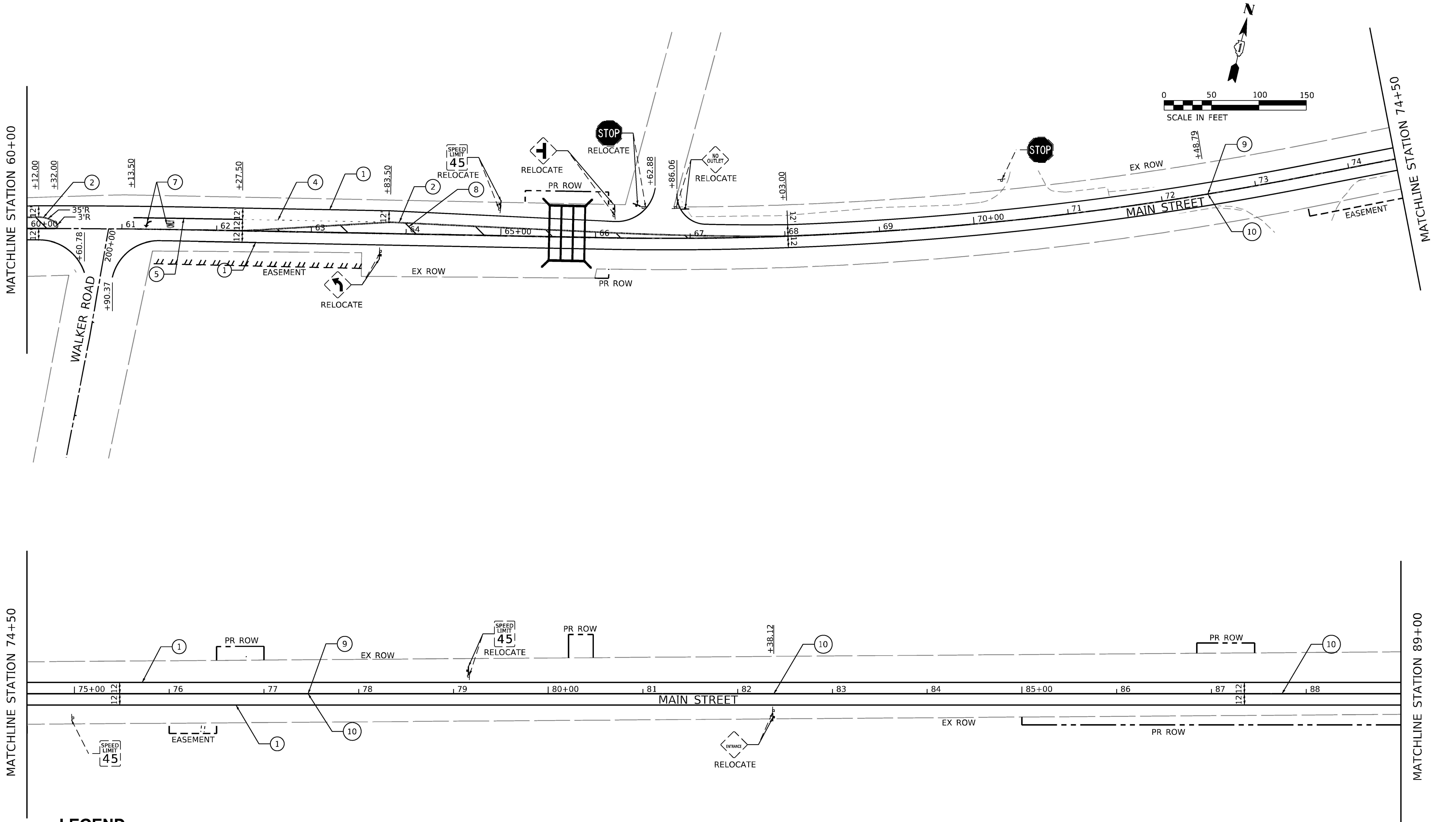
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=50' | SHEET PM-02 OF PM-06 SHEETS | STA. 30+00 TO STA. 60+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	122
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (30' SKIP - 10' DASH)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE (2' DASH - 6' SKIP)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 6'' WHITE (SOLID)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24'' WHITE (SOLID)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12'' YELLOW AT 50' C-C
9. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (30' SKIP - 10' DASH)

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

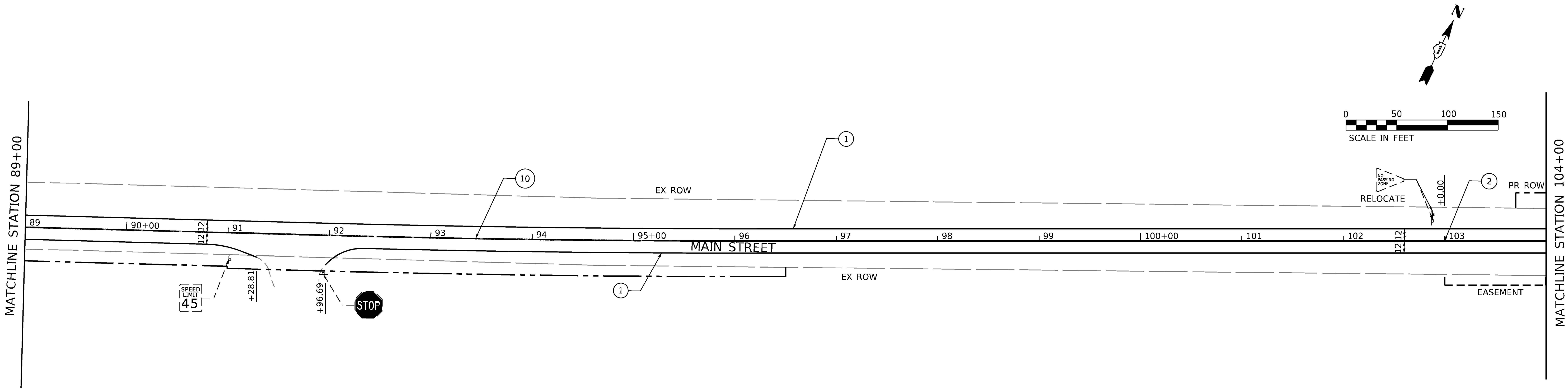
MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

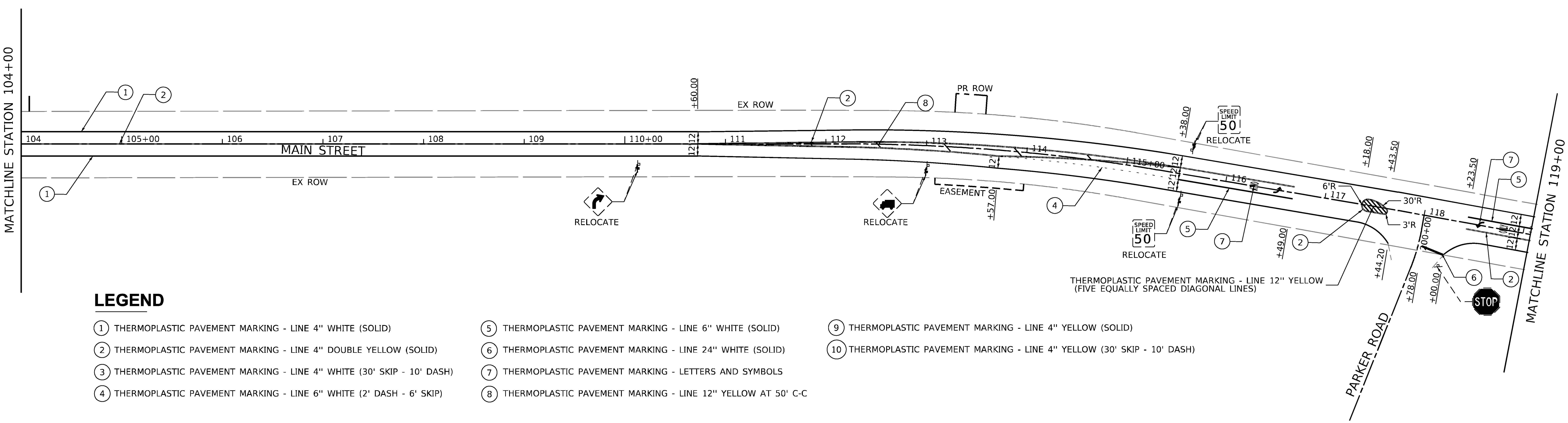
SCALE: 1"=50' | SHEET PM-03 OF PM-06 SHEETS | STA. 60+00 TO STA. 89+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	123

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT





LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' DASH - 6' SKIP)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
8. THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 50' C-C
9. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (30' SKIP - 10' DASH)

MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

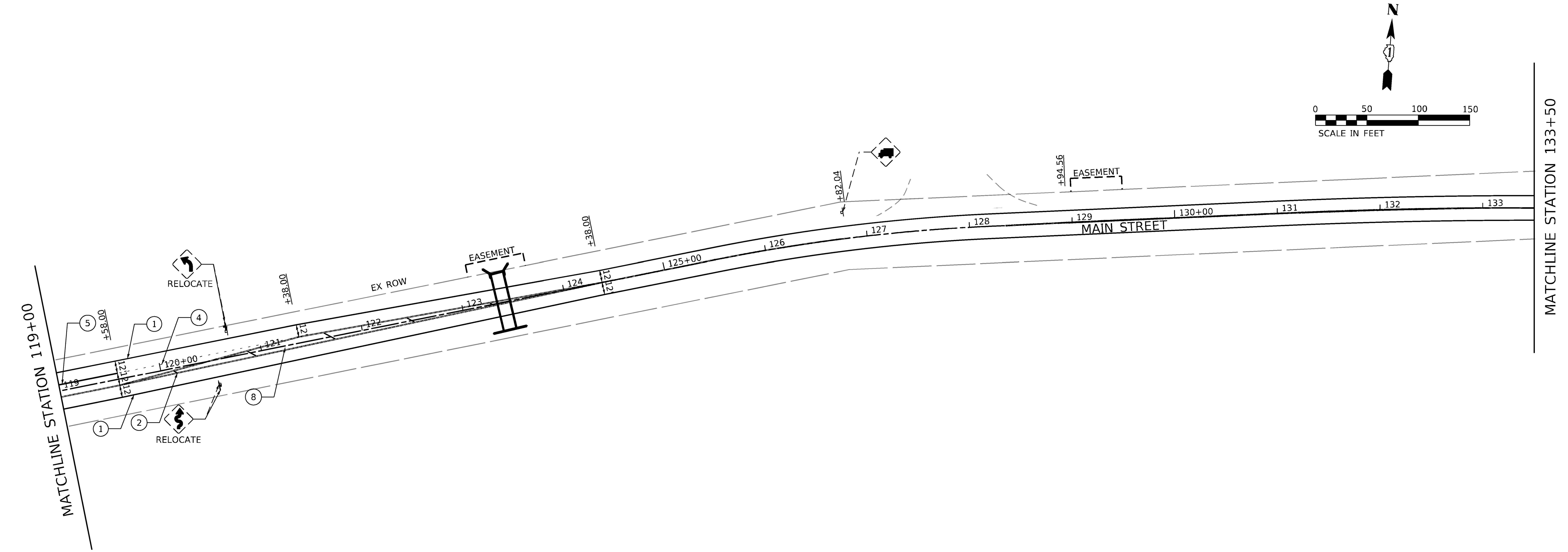
USER NAME = lso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

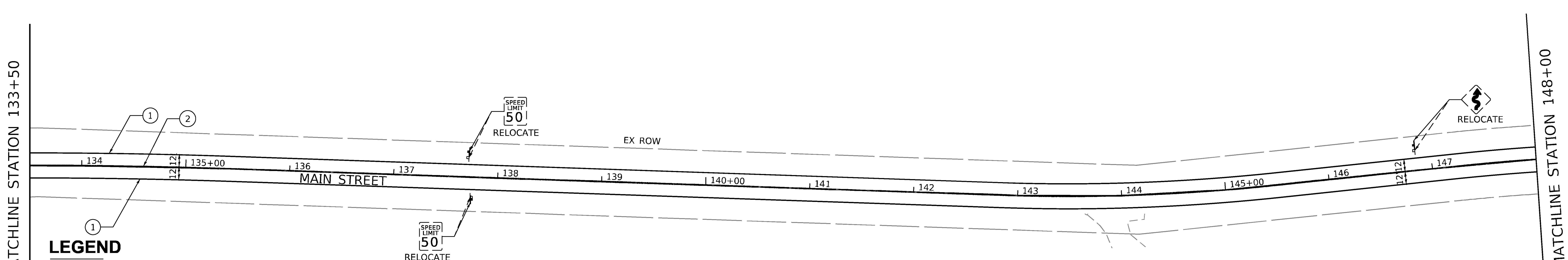
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=50' | SHEET PM-04 OF PM-06 SHEETS | STA. 89+00 TO STA. 119+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	124
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	





LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
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9. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (30' SKIP - 10' DASH)

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

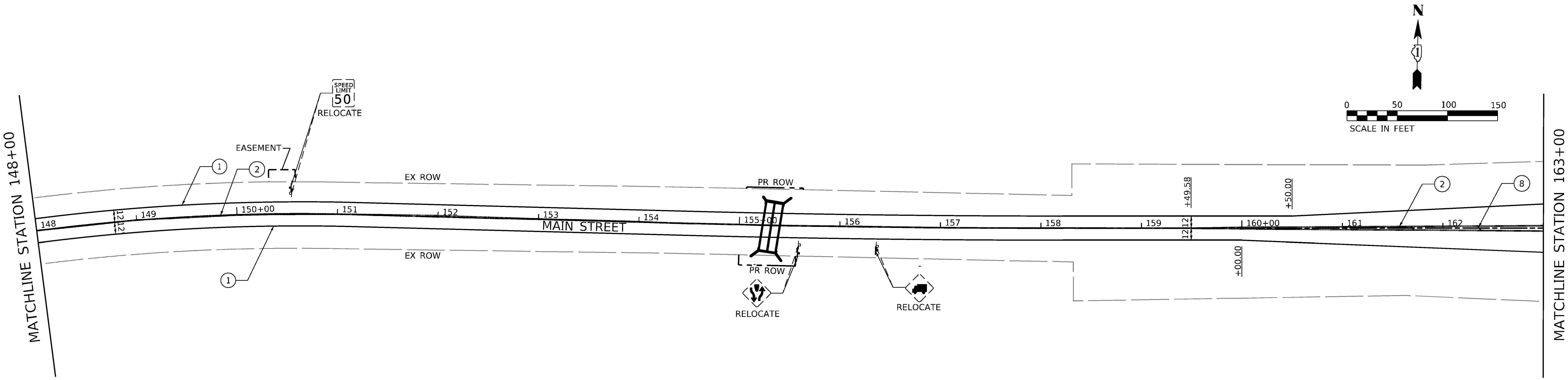
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

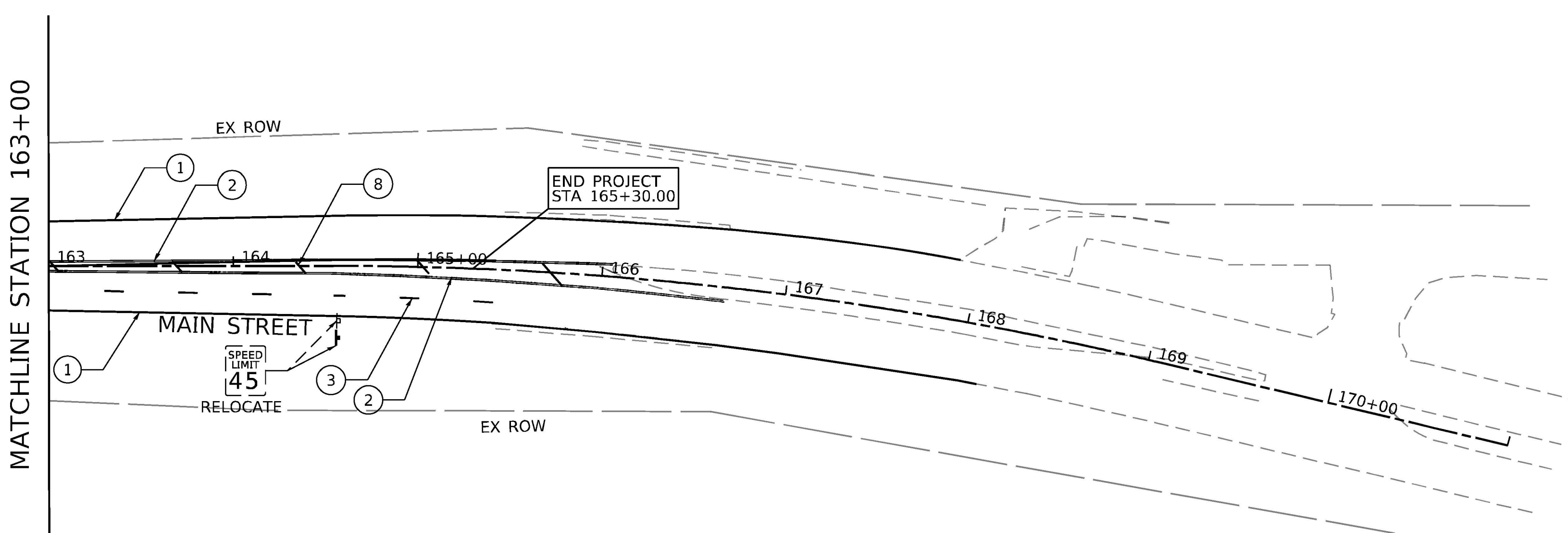
MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=50' | SHEET PM-05 OF PM-06 SHEETS | STA. 119+00 TO STA. 148+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	125

CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT





LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (SOLID)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' DOUBLE YELLOW (SOLID)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' WHITE (30' SKIP - 10' DASH)
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8. THERMOPLASTIC PAVEMENT MARKING - LINE 12'' YELLOW AT 50' C-C
9. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (SOLID)
10. THERMOPLASTIC PAVEMENT MARKING - LINE 4'' YELLOW (30' SKIP - 10' DASH)

MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

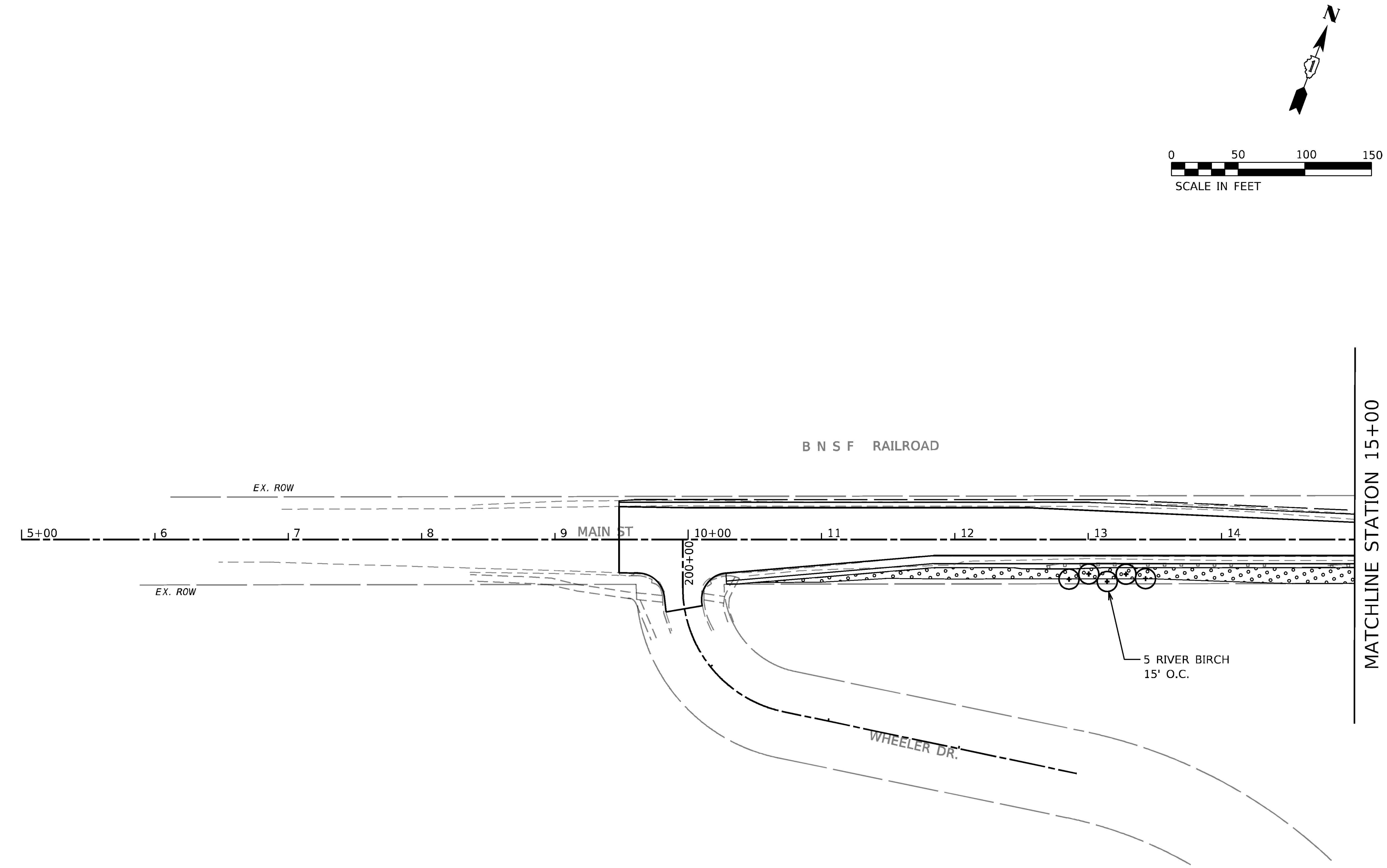
USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - AA	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: 1"=50' | SHEET PM-06 OF PM-06 SHEETS | STA. 148+00 TO STA. 165+30

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	126
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD_Sheets\D19144920-sht-LSP-01.dgn

MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

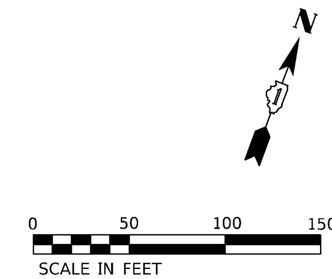
USER NAME = lso-user201	DESIGNED - MY	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

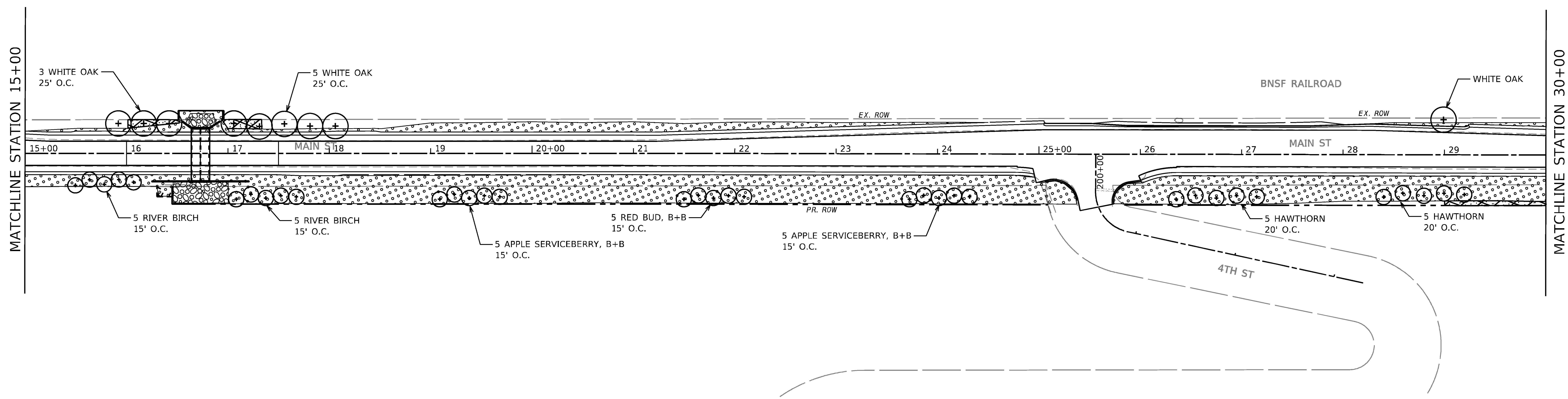
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

SCALE: 1"=50' | SHEET LSP-01 OF LSP-12 SHEETS | STA. 5+00 TO STA. 15+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	127
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		





LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

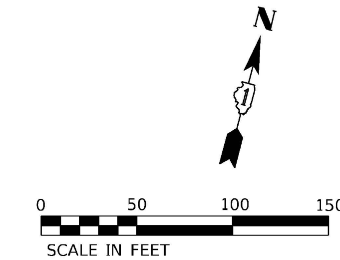
PROPOSED SHADE TREE

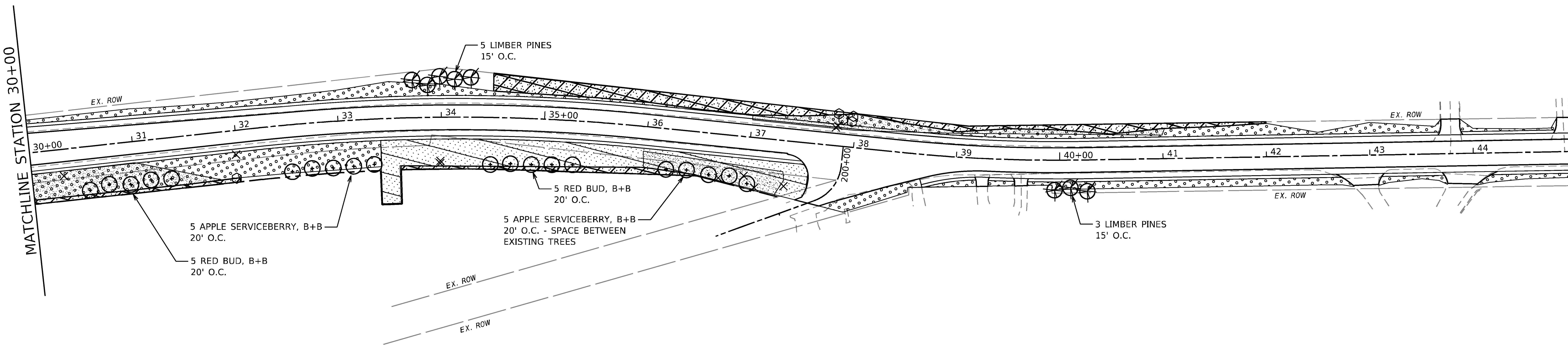
PROPOSED EVERGREEN TREE

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\S07103006-IDOT-Lemont-Main Street\CAD Sheets\D19144920-sht-LSP-02.dgn

MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - MY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 LANDSCAPE PLAN
		DRAWN - MY	REVISED -		
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -		
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -		SCALE: 1"=50' SHEET LSP-02 OF LSP-12 SHEETS STA. 15+00 TO STA. 30+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	128
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	





LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - SJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

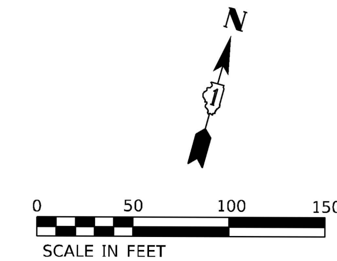
MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

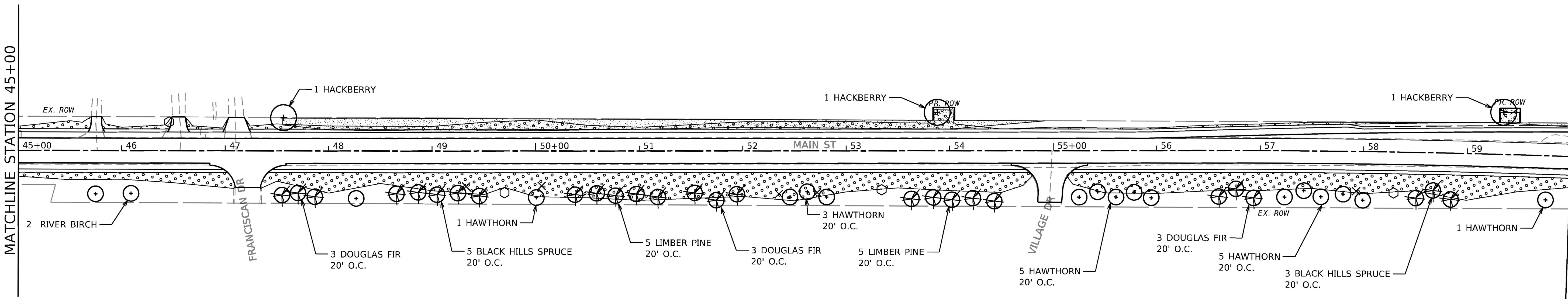
SCALE: 1"=50' | SHEET LSP-03 OF LSP-12 SHEETS | STA. 30+00 TO STA. 45+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	129

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT





LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

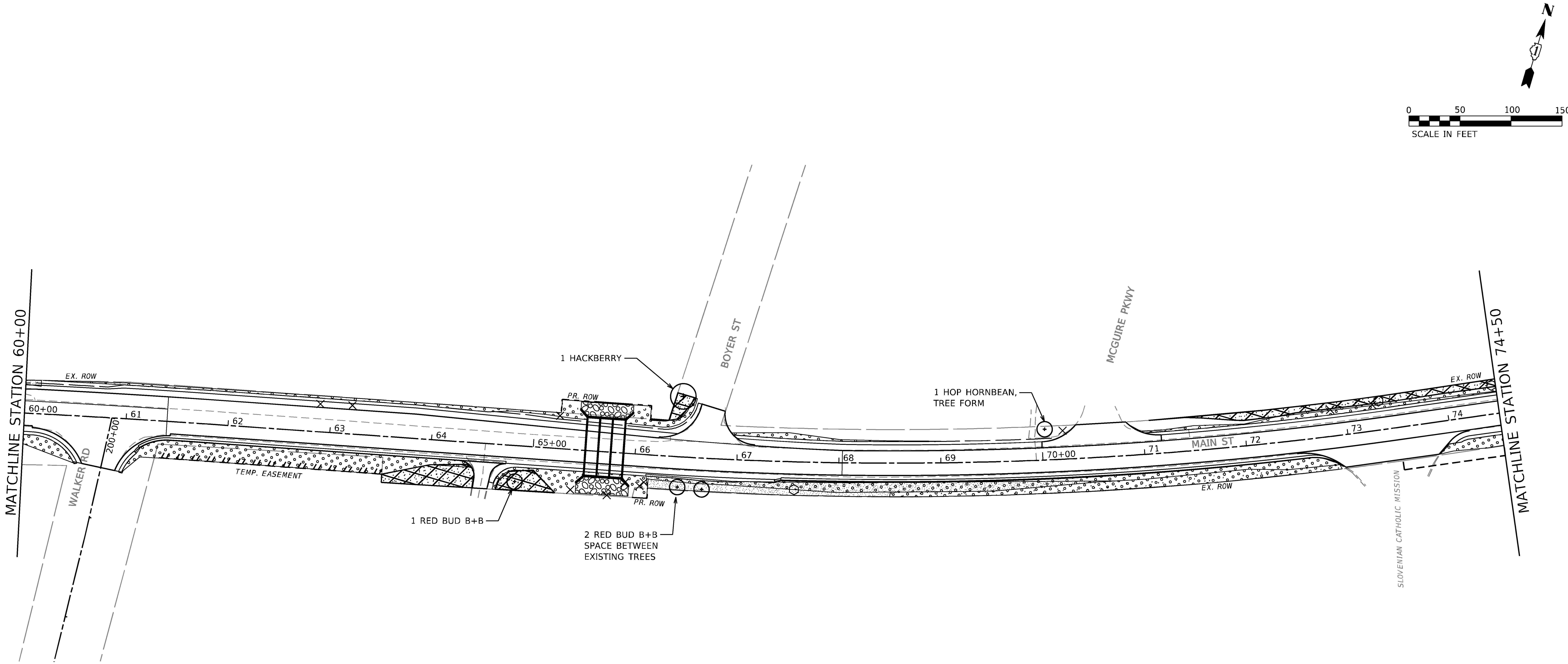
USER NAME = iso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - JJJ	REVISED -	
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

SCALE: 1"=50' | SHEET LSP-04 OF LSP-12 SHEETS | STA. 45+00 TO STA. 60+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	130
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

MODEL: Default
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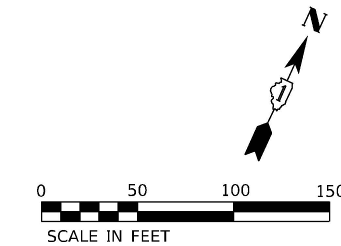
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - MY	REVISED -
		DRAWN - MY	REVISED -
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

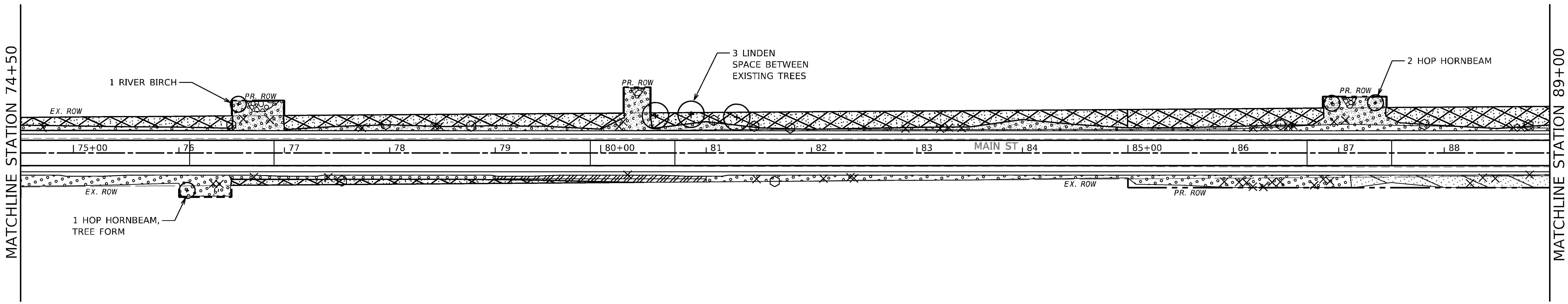
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

SCALE: 1"=50' | SHEET LSP-05 OF LSP-12 SHEETS | STA. 60+00 TO STA. 74+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	131
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		





LEGEND

SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

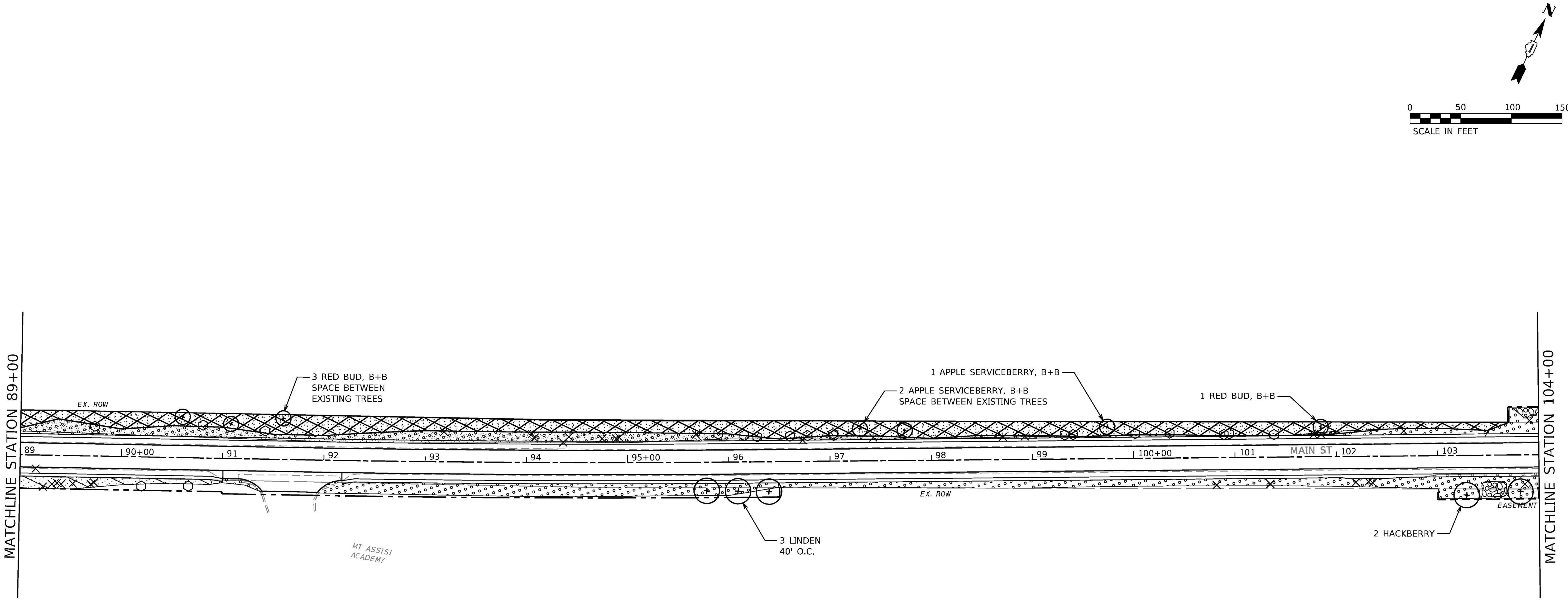
PROPOSED EVERGREEN TREE

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD Sheets\D19144920-sht-LSP-06.dgn

M M MOTT MACDONALD 10 S LaSalle St. *2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - MY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 LANDSCAPE PLAN	
		DRAWN - MY	REVISED -			
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -			
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -		SCALE: 1"=50'	SHEET LSP-06 OF LSP-12 SHEETS STA. 74+50 TO STA. 89+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	132
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

LEGEND



LEGEND

	SEEDING, CLASS 2A NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
	SEEDING, CLASS 4A EROSION CONTROL BLANKET
	MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)
	RIPRAP
	TURF REINFORCEMENT MAT
	PROPOSED SHADE TREE
	PROPOSED EVERGREEN TREE

MODEL: Default
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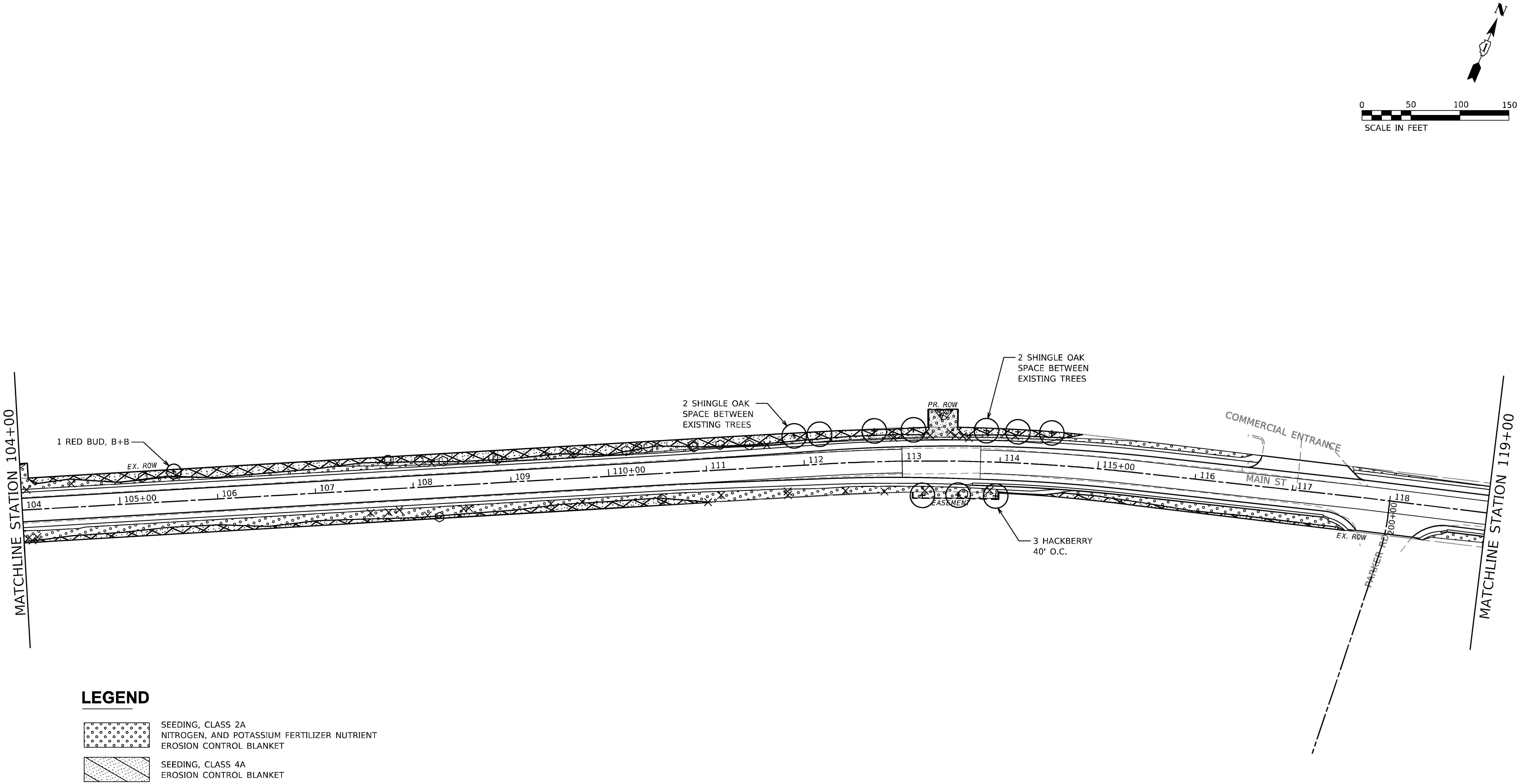
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - MY	REVISED -
		DRAWN - MY	REVISED -
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

SCALE: 1"=50'	SHEET LSP-07 OF LSP-12 SHEETS	STA. 89+00	TO STA. 104+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	133
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- SEEDING, CLASS 2A
  NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
  EROSION CONTROL BLANKET
- SEEDING, CLASS 4A
  EROSION CONTROL BLANKET
- MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
  INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)
- RIPRAP
- TURF REINFORCEMENT MAT
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - MY	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

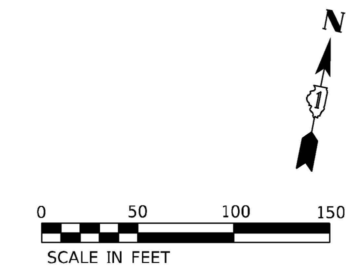
MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

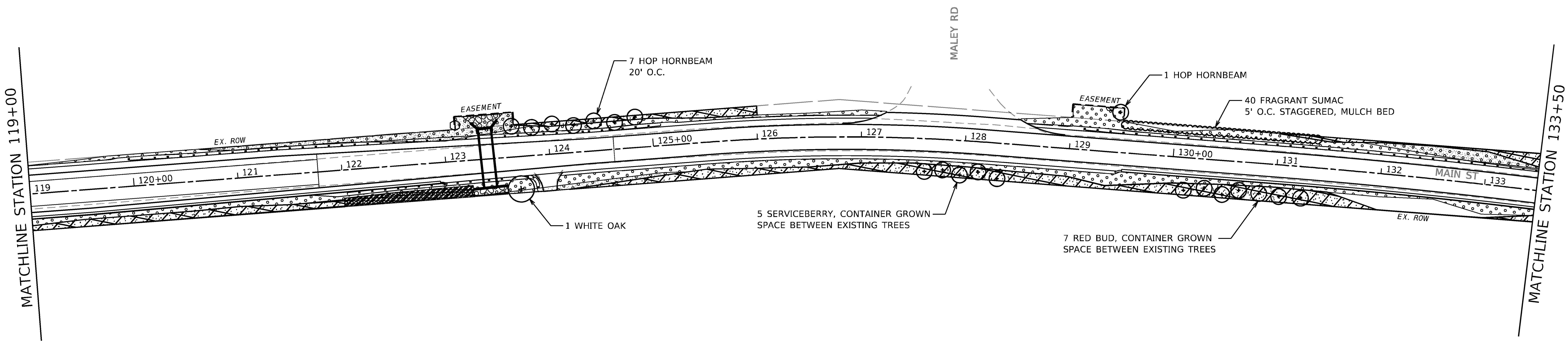
SCALE: 1"=50' | SHEET LSP-08 OF LSP-12 SHEETS | STA. 104+00 TO STA. 119+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	134

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT





LEGEND

- SEEDING, CLASS 2A NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING, CLASS 4A EROSION CONTROL BLANKET
- MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)
- RIPRAP
- TURF REINFORCEMENT MAT
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

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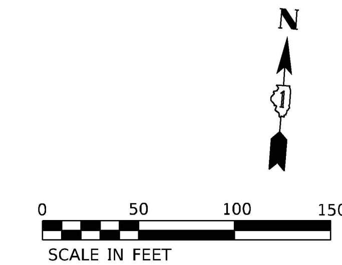
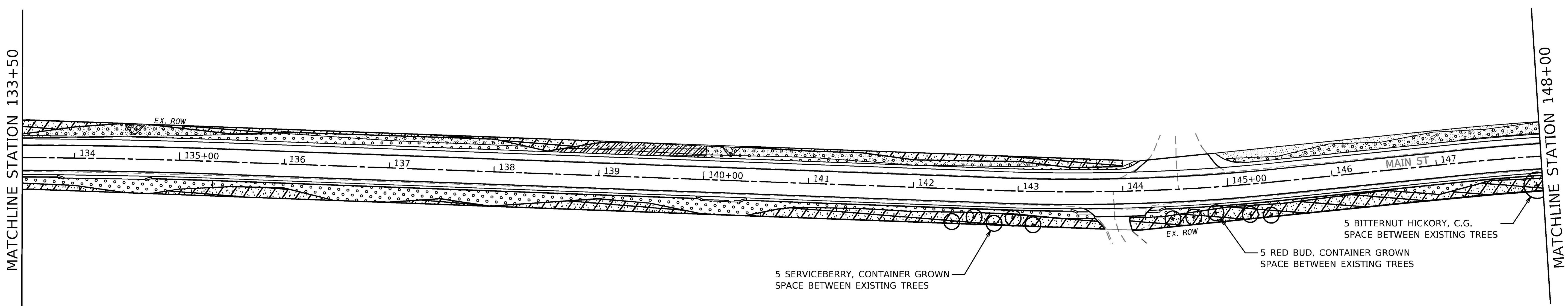
MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - MY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MY	REVISED -	
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -	
	PLOT DATE = 1/26/2026	DATE 06/20/2025	REVISED -	

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

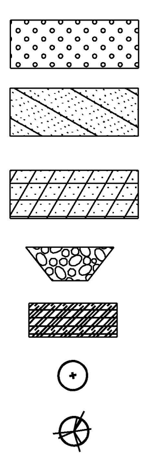
SCALE: 1"=50' | SHEET LSP-09 OF LSP-12 SHEETS | STA. 119+00 TO STA. 135+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	135
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		





LEGEND



SEEDING, CLASS 2A
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SEEDING, CLASS 4A
EROSION CONTROL BLANKET

MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)

RIPRAP

TURF REINFORCEMENT MAT

PROPOSED SHADE TREE

PROPOSED EVERGREEN TREE

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD_Sheets\D19144920-sht-LSP-10.dgn

M M MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - MY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MY	REVISED -	
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -	
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

SCALE: 1"=50'	SHEET LSP-10 OF LSP-12 SHEETS	STA. 133+50	TO STA. 148+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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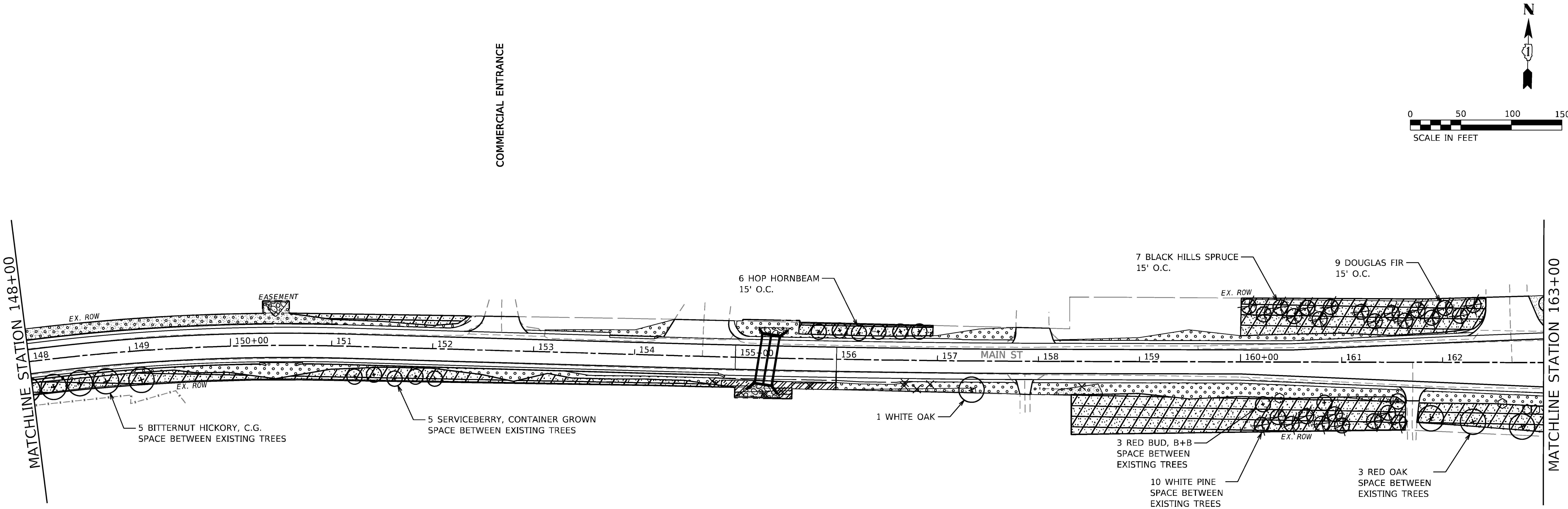
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- SEEDING, CLASS 2A
  NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
  EROSION CONTROL BLANKET
- SEEDING, CLASS 4A
  EROSION CONTROL BLANKET
- MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
  INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)
- RIPRAP
- TURF REINFORCEMENT MAT
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

MODEL: Default
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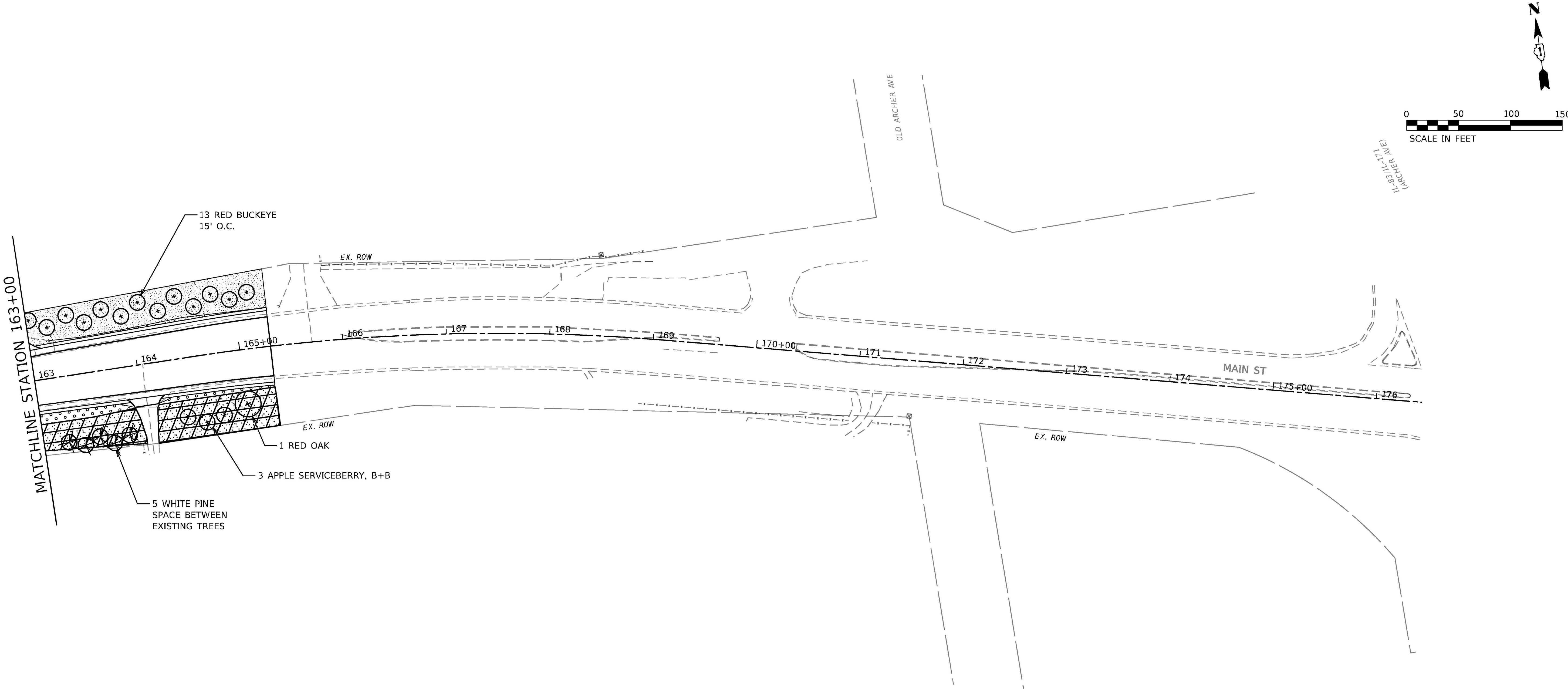
MOTT MACDONALD 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - MY	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 LANDSCAPE PLAN
		DRAWN - MY	REVISED -		
	PLOT SCALE = 1200.0000 ' / ft.	CHECKED - SJP	REVISED -		
	PLOT DATE = 1/26/2026	DATE 06/20/2025	REVISED -		SCALE: 1"=50' / SHEET LSP-11 OF LSP-12 SHEETS / STA. 148+00 TO STA. 163+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	137
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- SEEDING, CLASS 2A NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT EROSION CONTROL BLANKET
- SEEDING, CLASS 4A EROSION CONTROL BLANKET
- MOWING (SPECIAL), WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT INTERSEEDING, CLASS 4 AND INTERSEEDING, CLASS 5A (MODIFIED)
- RIPRAP
- TURF REINFORCEMENT MAT
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

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		DRAWN - MY	REVISED -
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	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
LANDSCAPE PLAN

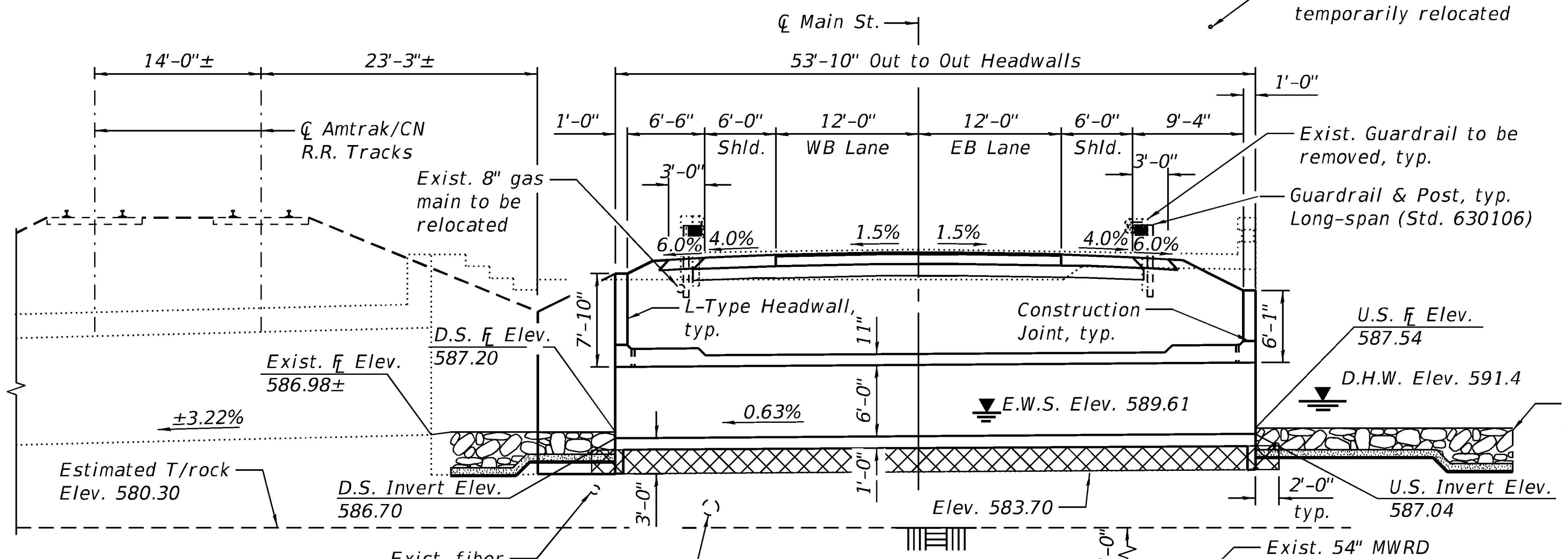
SCALE: 1"=50' | SHEET LSP-12 OF LSP-12 SHEETS | STA. 163+00 TO STA. 176+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	138
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

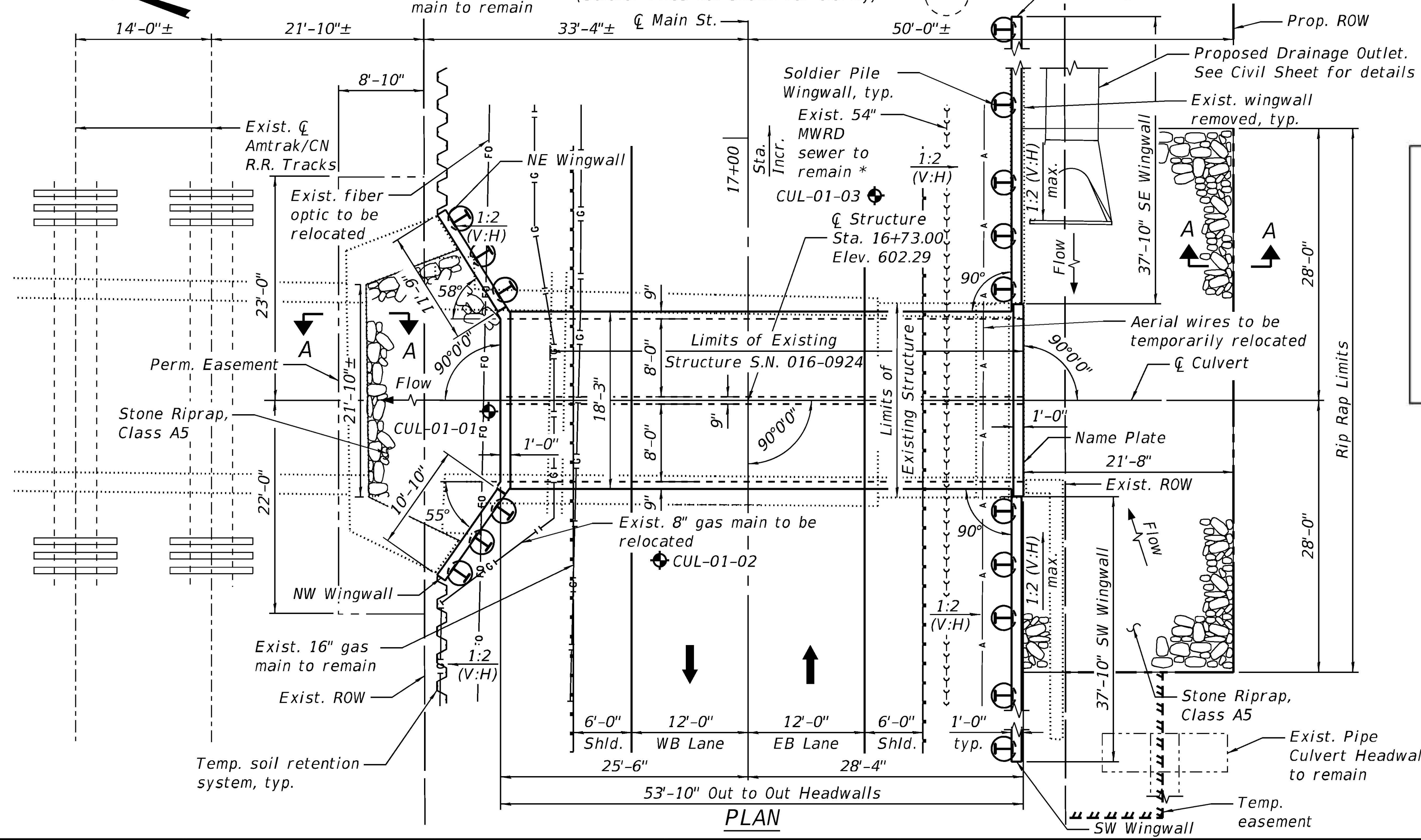
Benchmark: C.P. #2 - Rebar with HLR cap. Sta. 18+07, o/s 21' LT, Elev. 601.906.

Existing Structure: S.N. 016-0924 appears to have been constructed circa 1900 and widened circa 1980. Plans for the original construction or widening are not available. Superstructure consists of a simple-span R.C. slab, measuring 17'-0" face-to-face of abutments and 48'-6"± out-to-out. Original substructure consists of stacked-and-mortared limestone block walls and an R.C. wall-type abutment for the widened south portion. Structure to be completely removed and replaced. Road will be closed during construction.

No salvage.



LONGITUDINAL SECTION
(Soldier Piles not shown for clarity)



PLAN

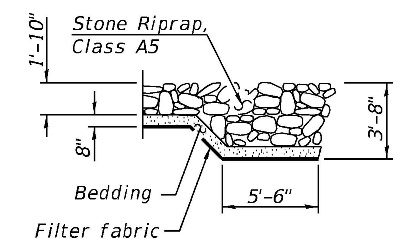
WATERWAY INFORMATION

Drainage Area = 0.6 sq. mi.			Existing Overtopping Elev. = 602.1 at Sta. 14+00; Proposed Overtopping Elev. = 602.4 at Sta. 16+00						
Flood	Freq. Yr.	Q C.F.S.	Opening Ft² Exist.	Opening Ft² Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	111	36	25	589.1	0.23	0.51	589.3	589.6
Design	50	261	54	38	589.9	1.10	1.47	591.0	591.4
Base	100	340	60	43	590.2	1.57	1.97	591.8	592.2
Overtop. Exist.		3249						602.1	
Overtop. Prop.		1424							602.4

LEGEND

- Soil boring location
- Removal and Disposal of Unsuitable Material for Structures, replaced with Aggregate Subgrade Improvement
- —G— Existing underground gas main
- —FO— Existing underground fiber optic
- ->->-> Existing underground sanitary sewer

* Contractor to verify the location of the 54" MWRD sewer to ensure adequate soldier pile installation clearance before soldier pile installation



SECTION A-A

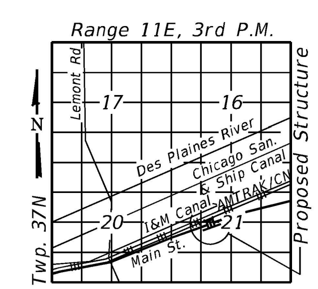
LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50 - soldier pile)

PROFILE GRADE
(along ℄ roadway)



LOCATION SKETCH

H.W. LOCHNER, INC.

JIANQING HONG, S.E.

DATE: 05/28/2025

081-006053

SIGNATURE AND SEAL APPLY TO SHEETS 139 THRU 150

EXP. DATE: 11/30/2026

JIANQING HONG 081-006053 LICENSED STRUCTURAL ENGINEER OF ILLINOIS

APPROVED
For Structural Adequacy Only

Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
MAIN STREET OVER
TRIBUTARY TO I&M CANAL
F.A.U. RTE. 3587 - SEC. 2020-142-C&DR
COOK COUNTY
STATION 16+73.00
STRUCTURE NO. 016-0984

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD_Sheets\D19144920-sht-BOX_CULVERT_01_GENERAL_PLAN.dgn

LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION SN 016-0984	F.A.U. RTE. 3587; SECTION 2020-142-C&DR; COUNTY COOK; TOTAL SHEETS 316; SHEET NO. 139
		CHECKED - RH	REVISED -			CONTRACT NO. 62L30
	PLOT SCALE =	DRAWN - MM	REVISED -			
	PLOT DATE =	CHECKED - RH	REVISED -		SHEET 1 OF 12 SHEETS	ILLINOIS FED. AID PROJECT

5/28/2025 10:41:23 AM

GENERAL NOTES:

1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

2. The location of existing drainage structures, telephone lines, electric lines, water service lines, gas mains, and other utility facilities as shown on the plans are based on field investigations and the best information available, but the locations are not guaranteed. it shall be the Contractor's responsibility to ascertain their exact location from the individual utility companies and by field inspection.

3. Reinforcement bars designated (E) shall be epoxy coated.

4. Protective coat shall be applied to the top and exposed inside vertical faces of wingwalls head walls.

5. Excavation behind existing walls shall be performed to balance front and back soil pressure before removing existing superstructure.

6. Precast alternate is not allowed.

7. The limits and quantities of removal of existing soil and replacement with the Aggregate Subgrade Improvement materials shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

8. In case, below the box culvert where dewatering and compaction is not possible, rockfill shall be used and capped with 6 inches of CA7 and satisfy the Standard Specifications. The cost of the capping material shall be included in the pay item for Aggregate Subgrade Improvement. The rockfill cost shall be included in the pay item of Concrete Box Culverts.

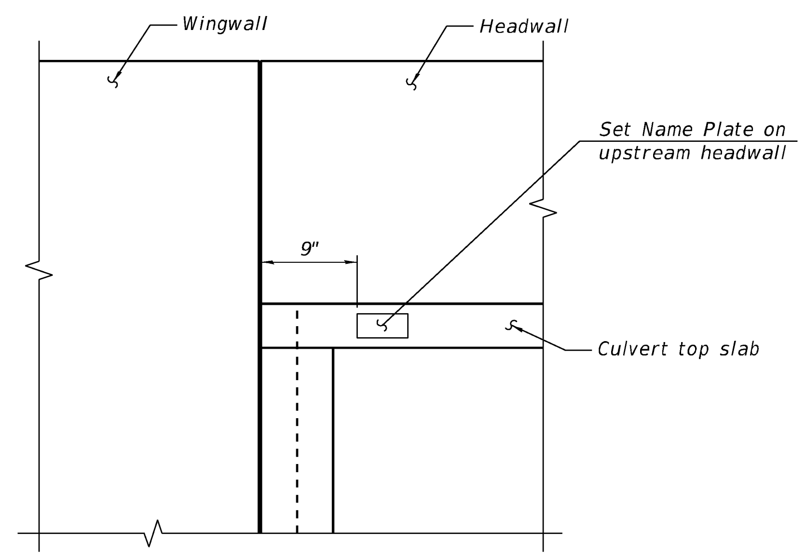
9. It shall be the responsibility of the Contractor to divert flow and dewater the excavation during construction to keep construction areas free of water. The method of water diversion shall subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.

10. The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

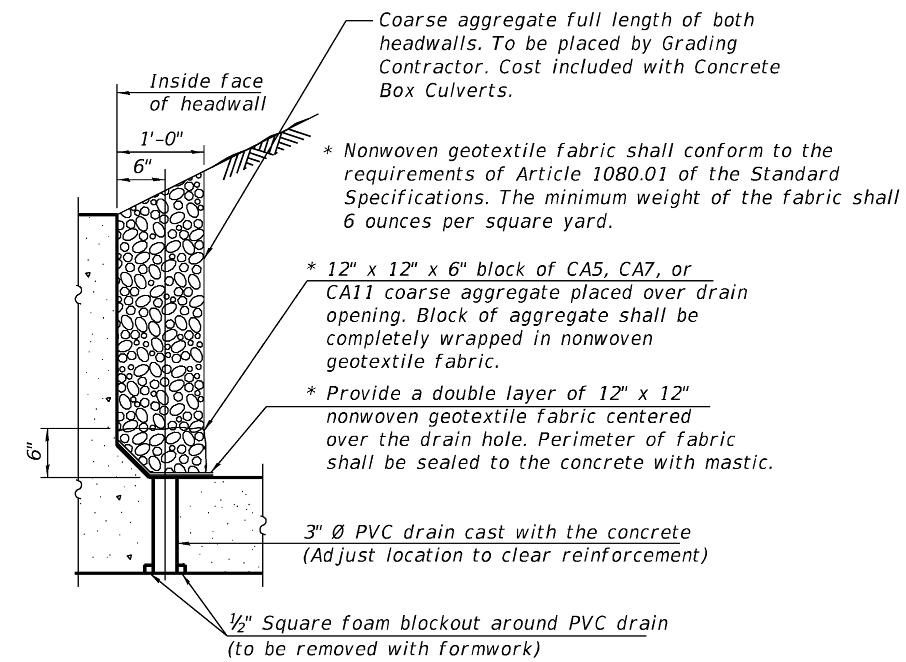
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	175
Filter Fabric	Sq. Yd.	175
Aggregate Subgrade Improvement	Cu. Yd.	96
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	96
Concrete Structures	Cu. Yd.	39.3
Protective Coat	Sq. Yd.	24
Stud Shear Connectors	Each	196
Reinforcement Bars, Epoxy Coated	Pound	31,910
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	140
Furnishing Soldier Piles (W Section)	Foot	620
Drilling And Setting Soldier Piles (In Soil)	Cu. Ft.	618
Drilling And Setting Soldier Piles (In Rock)	Cu. Ft.	1,500
Untreated Timber Lagging	Sq. Ft.	920
Concrete Box Culverts	Cu. Yd.	113.3
Geocomposite Wall Drain	Sq. Yd.	63

INDEX OF SHEETS



NAME PLATE LOCATION

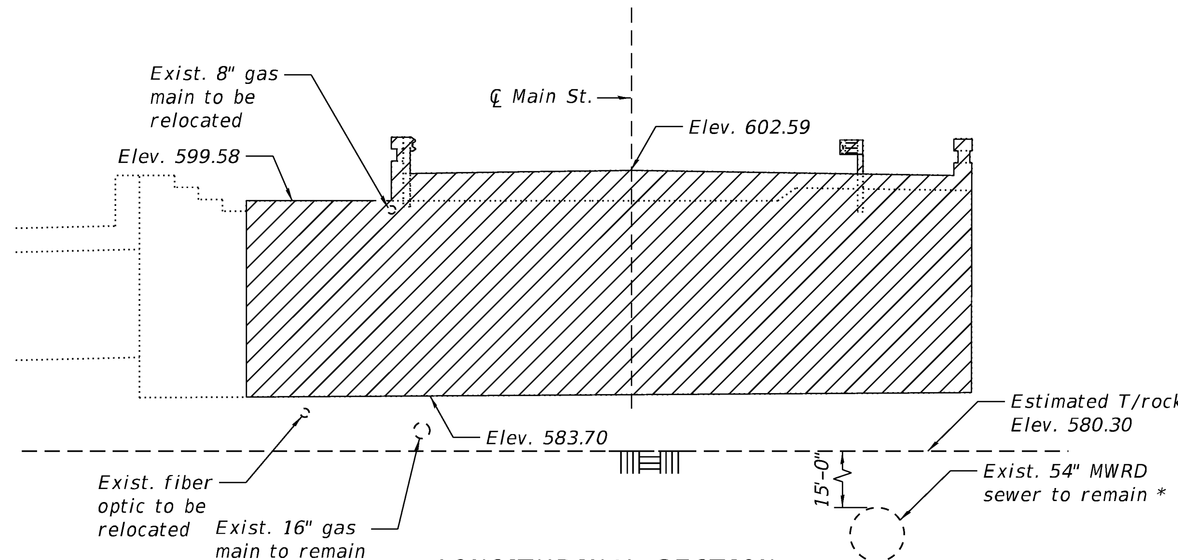


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included with Concrete Box Culverts)

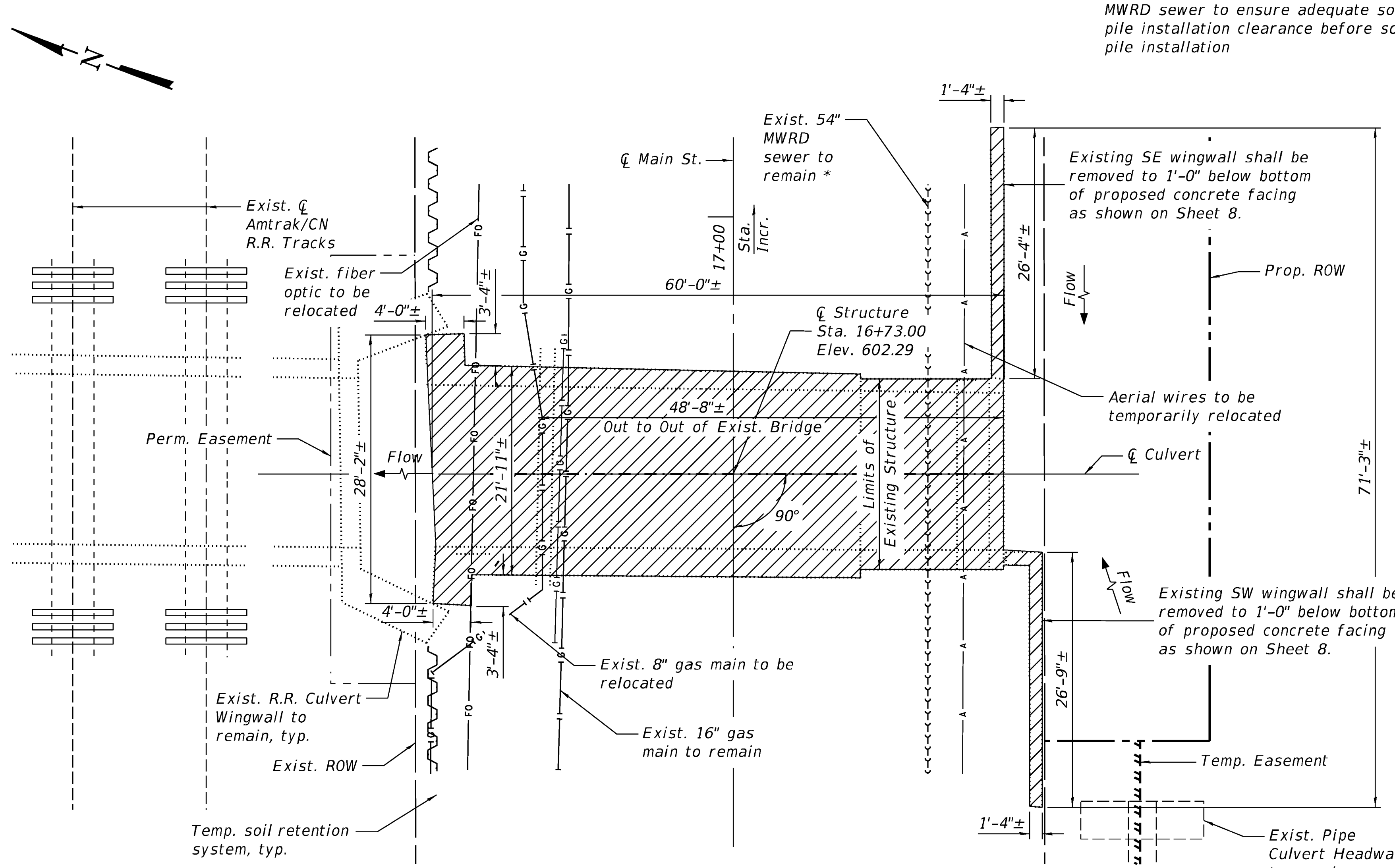
STA. 16+73.00
BUILT 2025 BY
STATE OF ILLINOIS
F.A.U. RTE. 3587 SEC. 2020-142-C&DR
LOADING HL-93
STR. NO. 016-0984

NAME PLATE
See Std. 515001



LONGITUDINAL SECTION

* Contractor to verify the location of the 54" MWRD sewer to ensure adequate soldier pile installation clearance before soldier pile installation



PLAN

LEGEND

- Removal Of Existing Structures
- —G— Existing underground gas main
- —FO— Existing underground fiber optic
- ->->-> Existing underground sanitary sewer

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal Of Existing Structures	Each	1

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LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEMOLITION PLAN SN 016-0984
		CHECKED - RH	REVISED -		
	PLOT SCALE =	DRAWN - MM	REVISED -		
	PLOT DATE =	CHECKED - RH	REVISED -		SHEET 3 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	141
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

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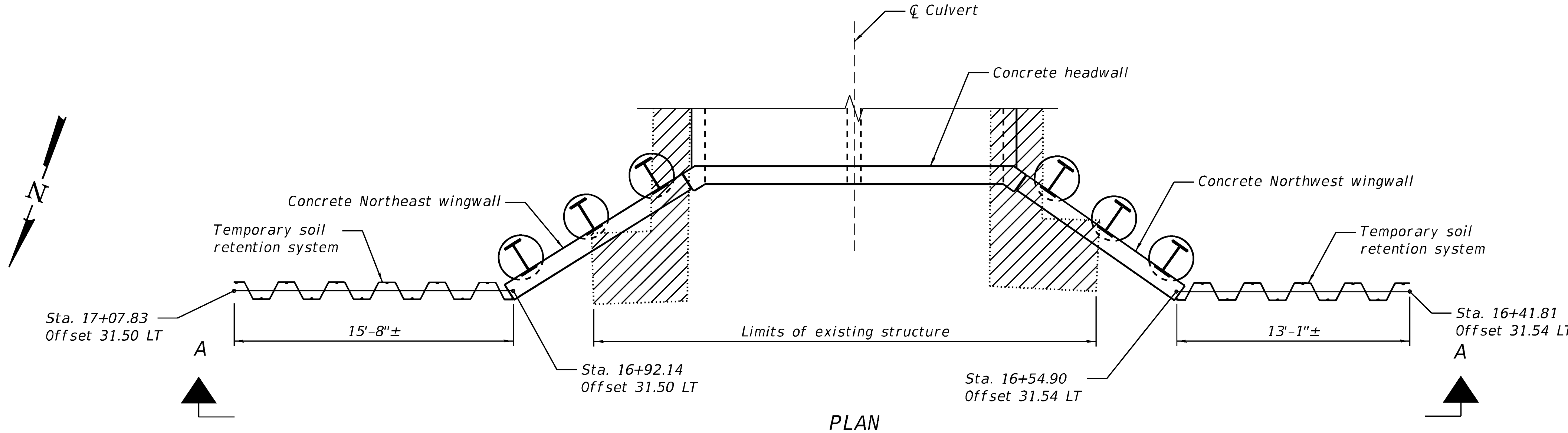
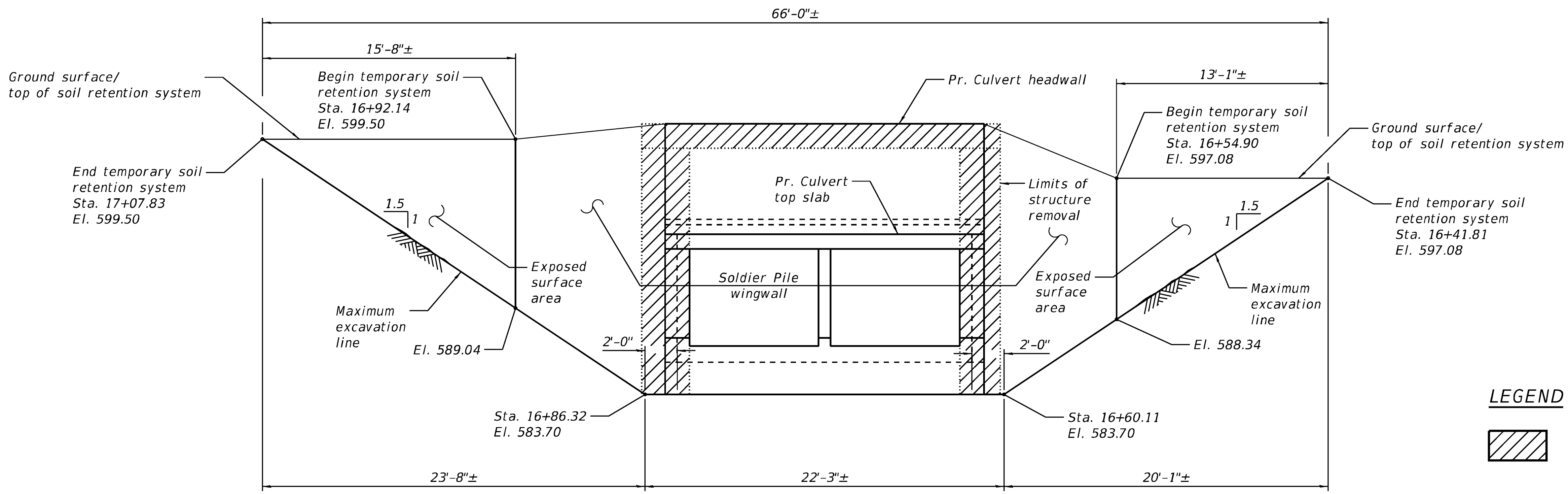


PLAN



VIEW A-A

(Showing approximate limits of temporary soil retention system)

LEGEND

Removal Of Existing Structures

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq. Ft.	140

NOTES:

1. The Contractor shall coordinate with drainage and utility plans for waterway diversion when installing temporary soil retention system.
2. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
3. Temporary Soil Retention System shall be installed when installing the NE and NW soldier pile wingwalls prior to removal of the existing bridge. It shall be removed after the box culvert is constructed and backfilled to the designated elevation.

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LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -
		CHECKED - RH	REVISED -
	PLOT SCALE =	DRAWN - MM	REVISED -
	PLOT DATE =	CHECKED - RH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM PLAN AND ELEVATION
SN 016-0984

SHEET 4 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

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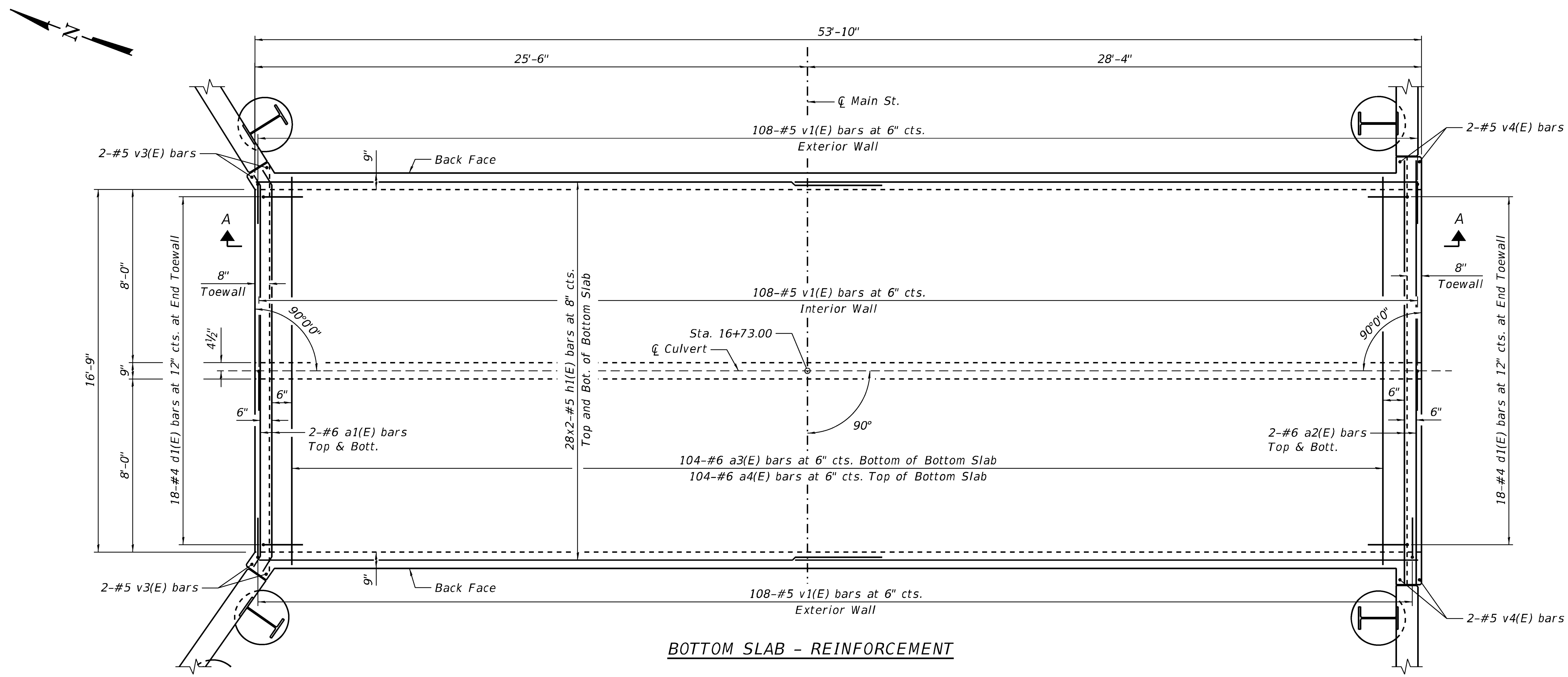
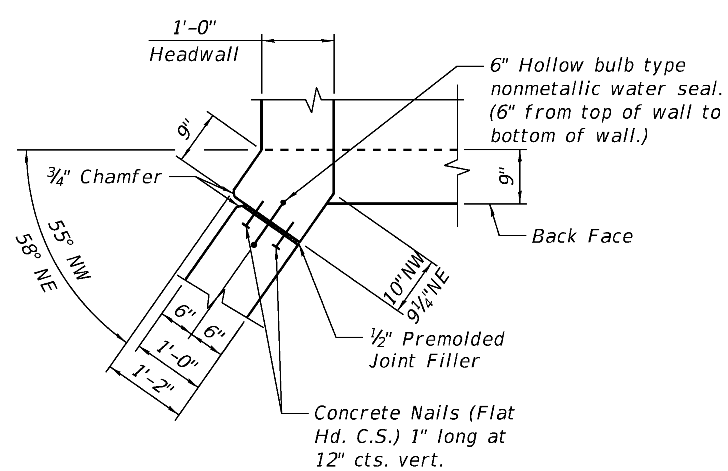
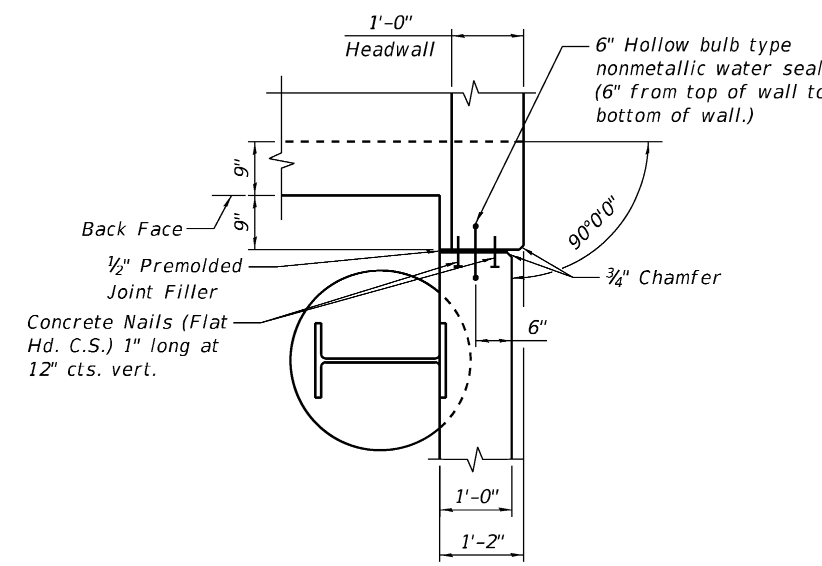


BOTTOM SLAB - REINFORCEMENT



NORTH END CORNER DETAIL

(Northwest corner shown, Northeast similar)



SOUTH END CORNER DETAIL

(Southwest corner shown, Southeast similar)

MINIMUM BAR LAP

(Slab)

#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"

NOTES:

1. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
2. At the Contractor's option, a longer v1(E) bar may be ordered to replace the v2(E) bar. No reduction in quantities shall be made for this substitution.
3. For soldier pile wingwall details see Sheet 11.
4. For Section A-A see Sheet 6.

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LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT PLAN BOTTOM SLAB DETAILS SN 016-0984
		CHECKED - RH	REVISED -		
	PLOT SCALE =	DRAWN - MM	REVISED -		
	PLOT DATE =	CHECKED - RH	REVISED -		SHEET 5 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		

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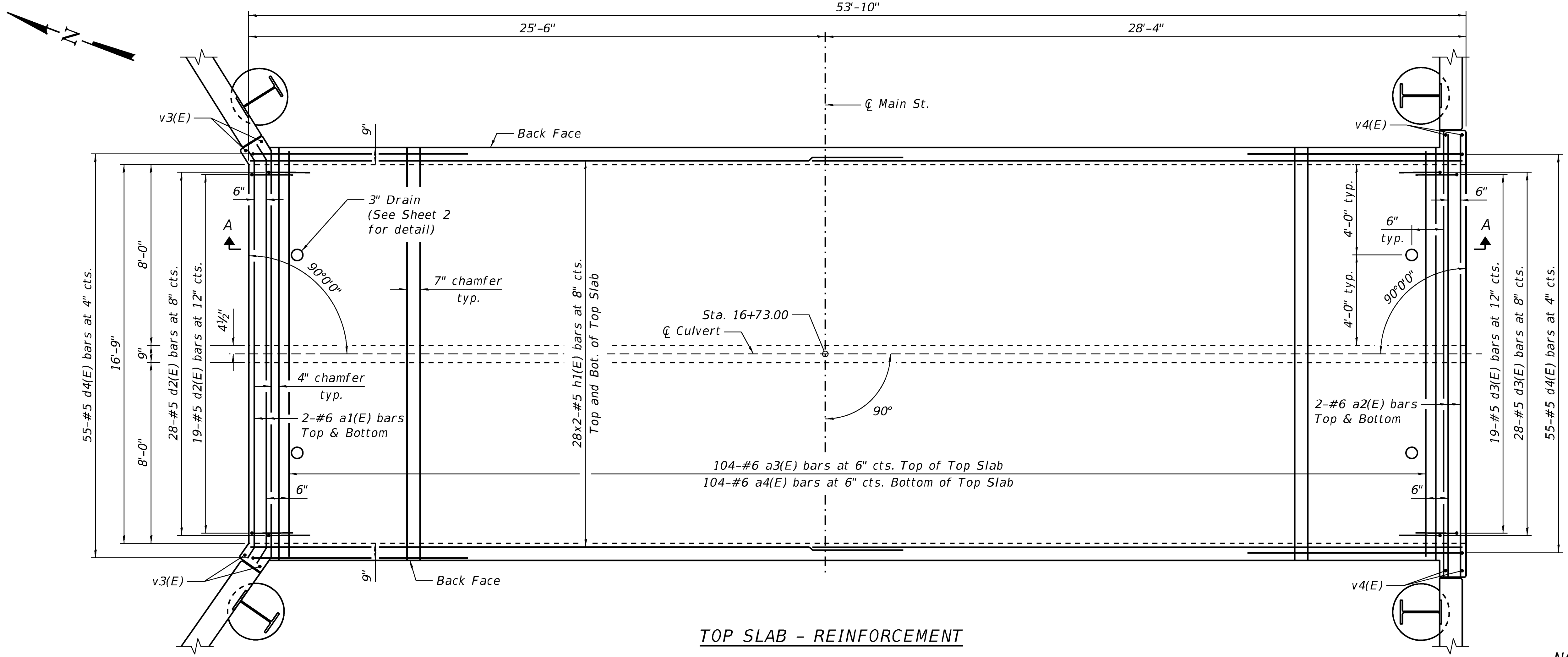
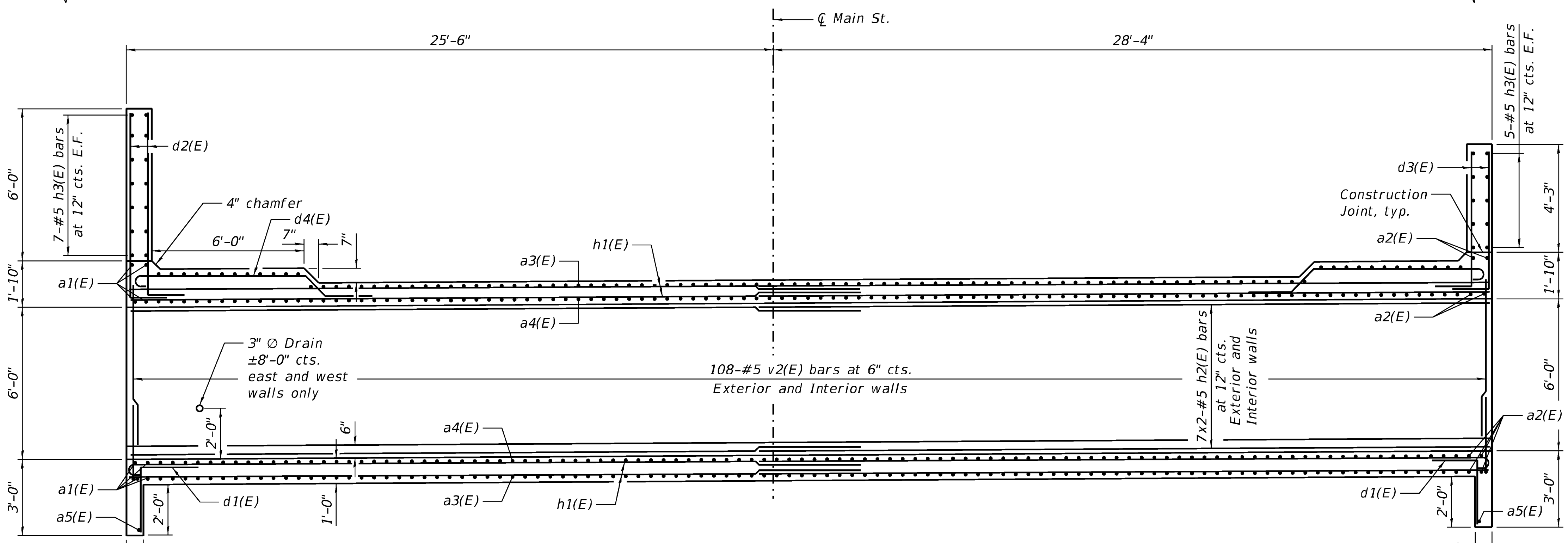


TOP SLAB - REINFORCEMENT



SECTION A-A

MINIMUM BAR LAP
(Slab)
#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"

NOTES:

1. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
2. At the Contractor's option, a longer v1(E) bar may be ordered to replace the v2(E) bar. No reduction in quantities shall be made for this substitution.
3. For soldier pile wingwall details see Sheet 11.

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LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - RH	REVISED -	
PLOT SCALE =	DRAWN - MM	REVISED -	
PLOT DATE =	CHECKED - RH	REVISED -	

CULVERT PLAN TOP SLAB DETAILS
SN 016-0984
SHEET 6 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

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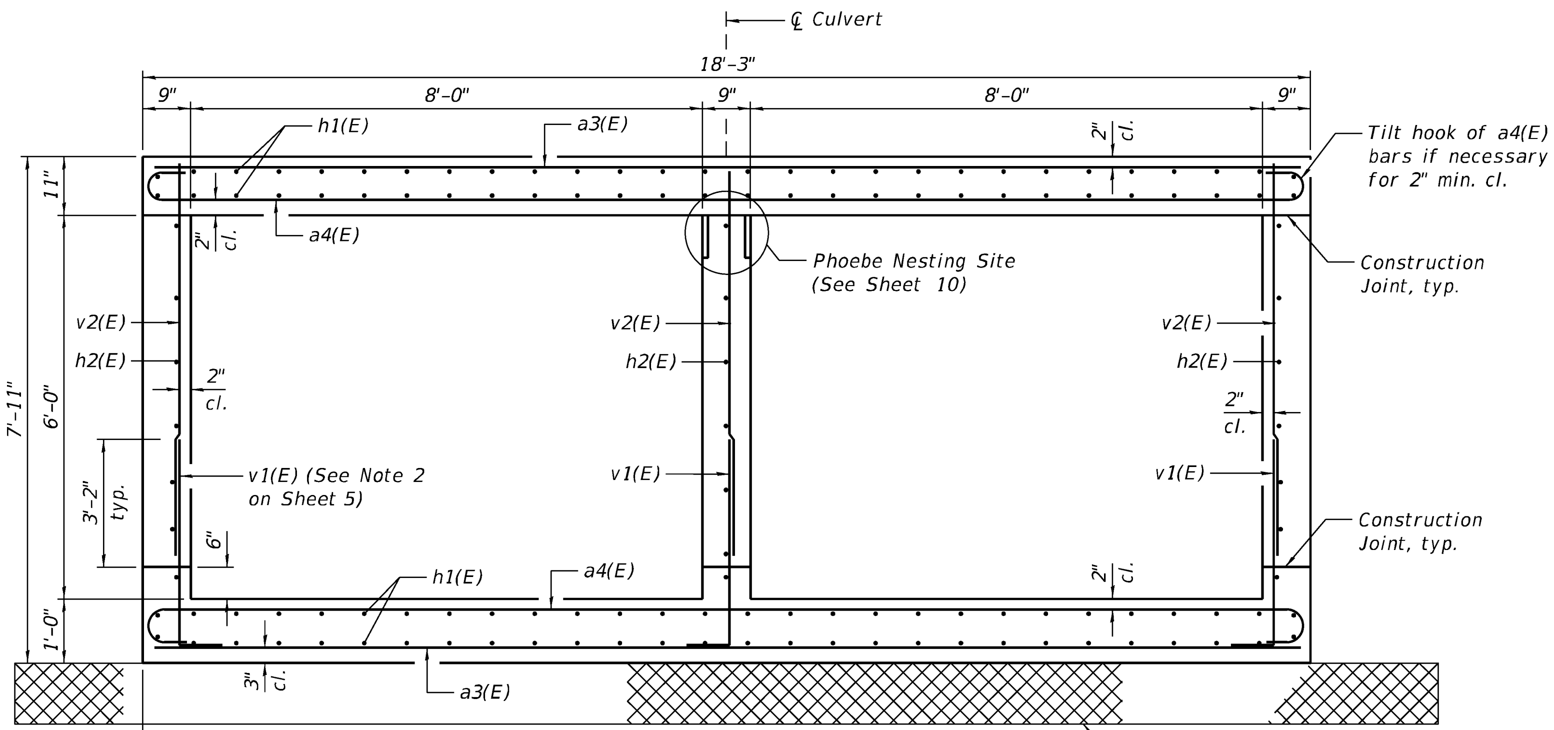
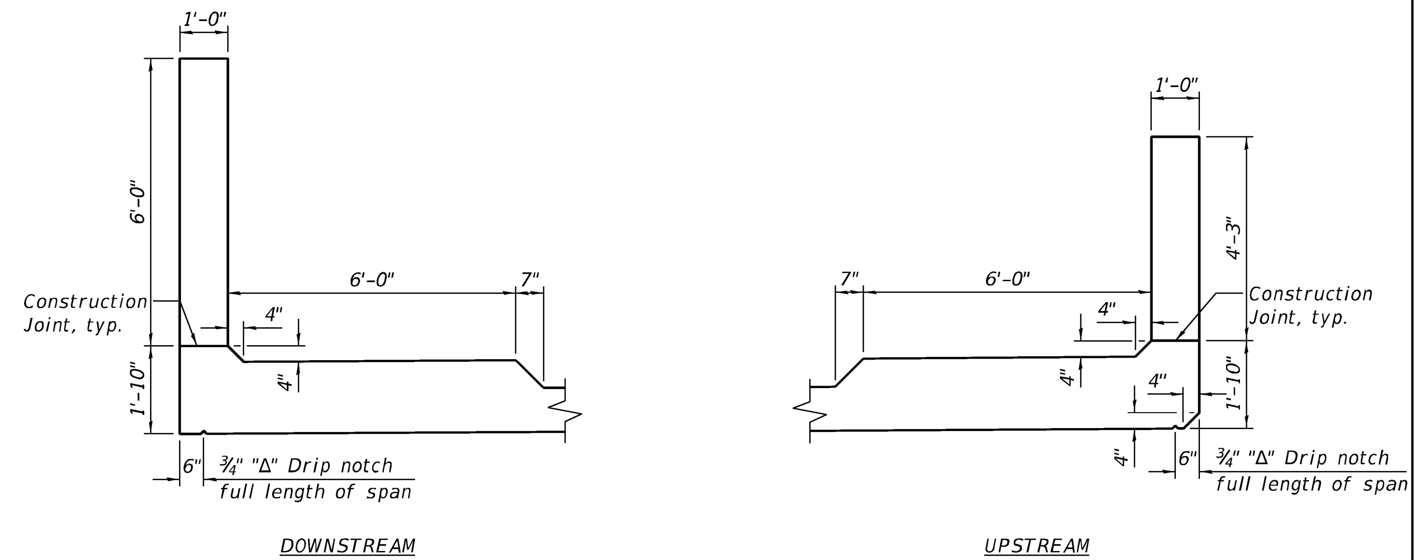
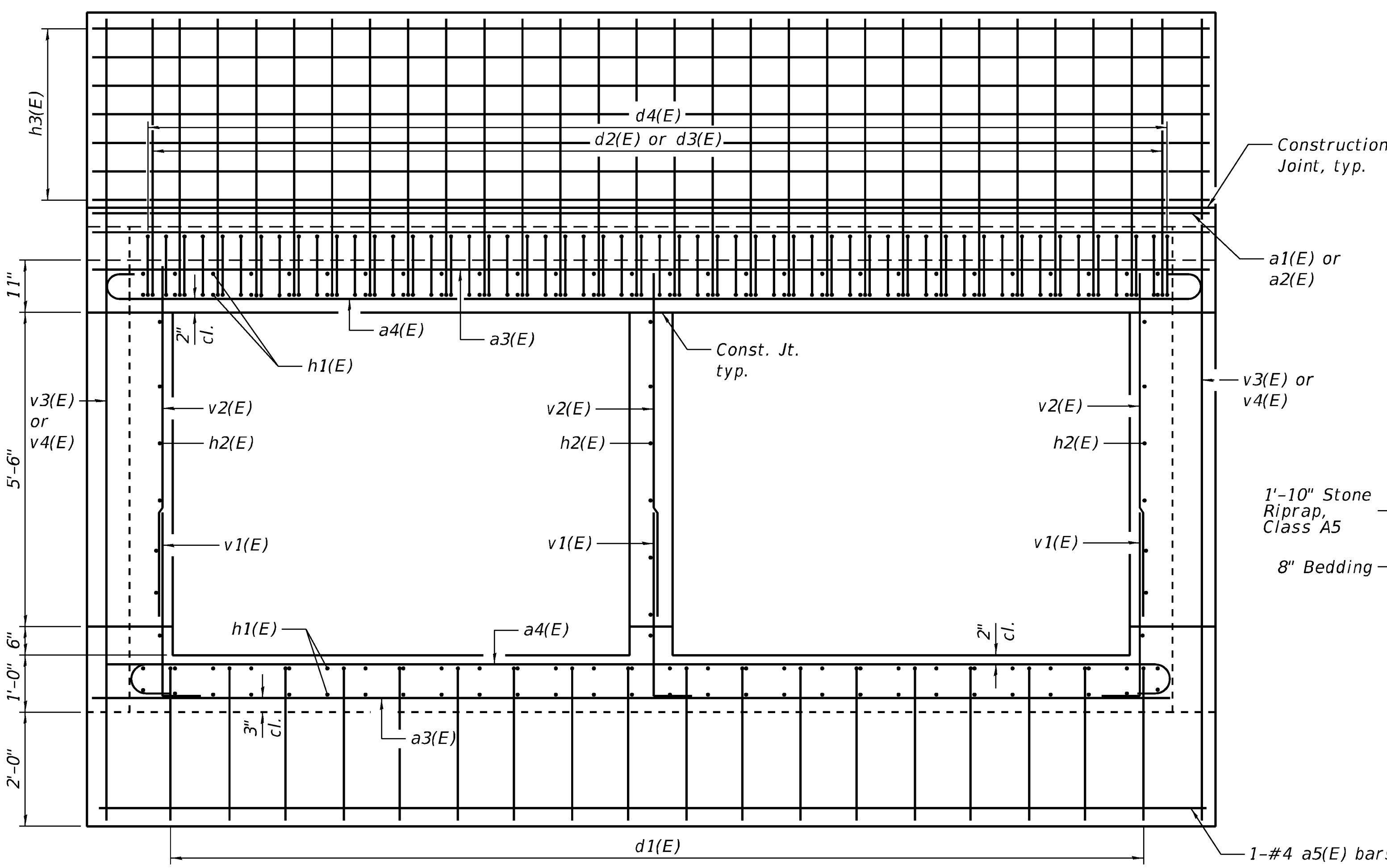


SECTION THRU BARREL

(@ Rt. L's to ℄ Culvert)

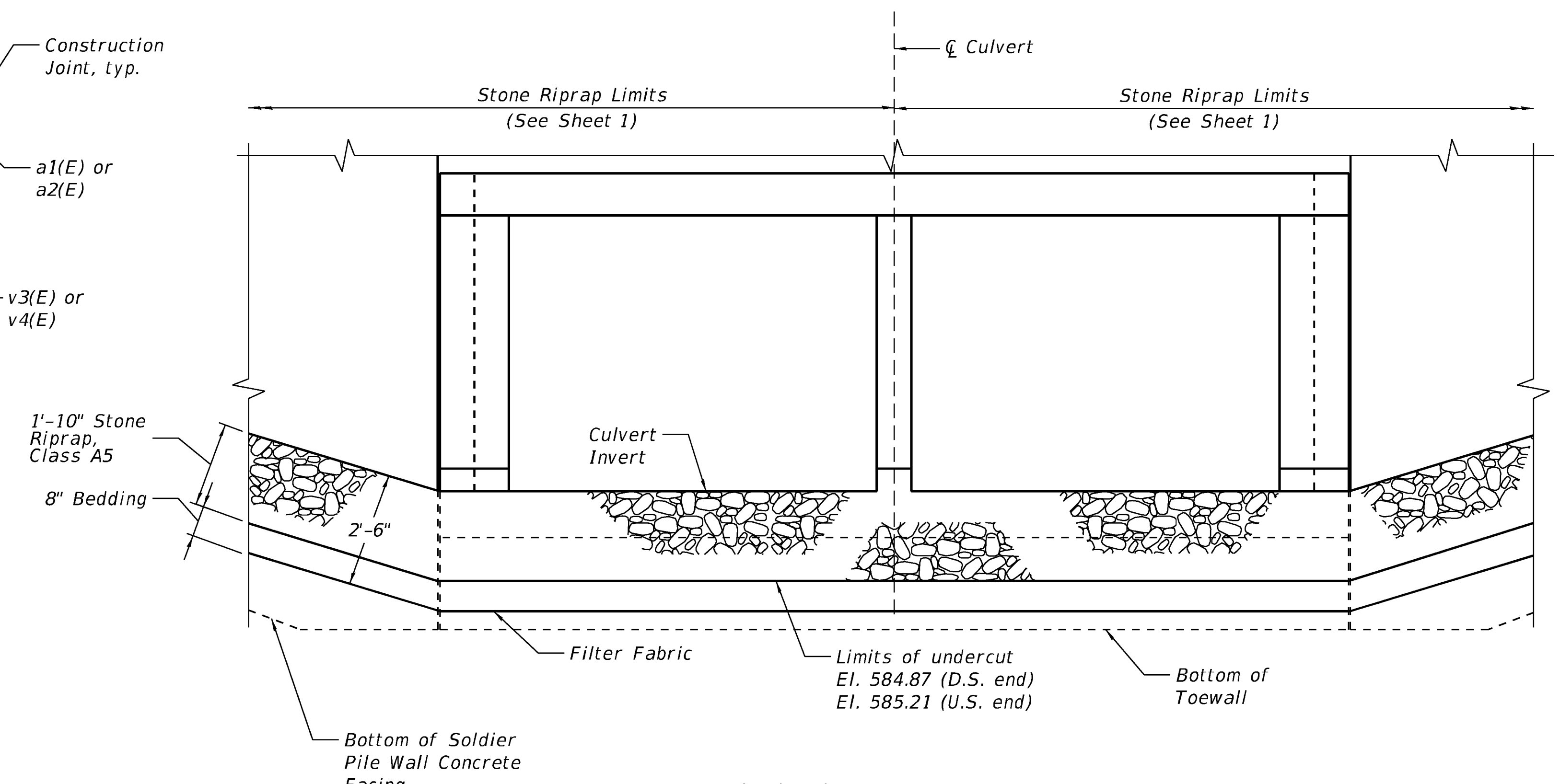


SECTION THRU HEADWALL



End View

(@ Rt. L's to ℄ Culvert)



SECTION THRU RIPRAP

(U.S. end shown, D.S. end similar)

LEGEND

Removal and Disposal of Unsuitable Material for Structures, replaced with Aggregate Subgrade Improvement

LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - MM CHECKED - RH DRAWN - MM CHECKED - RH	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT SECTION AND DETAILS SN 016-0984	SHEET 7 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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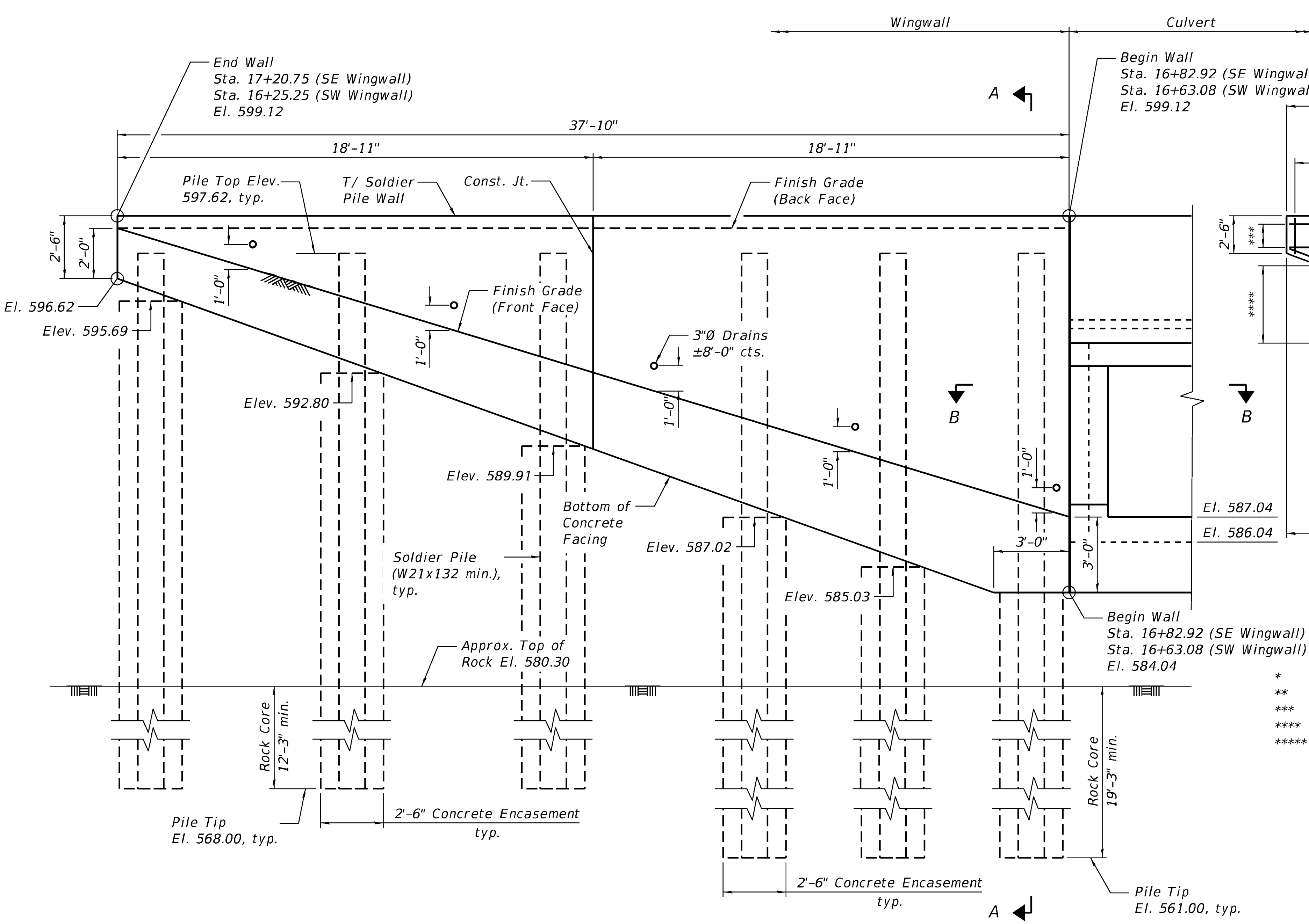
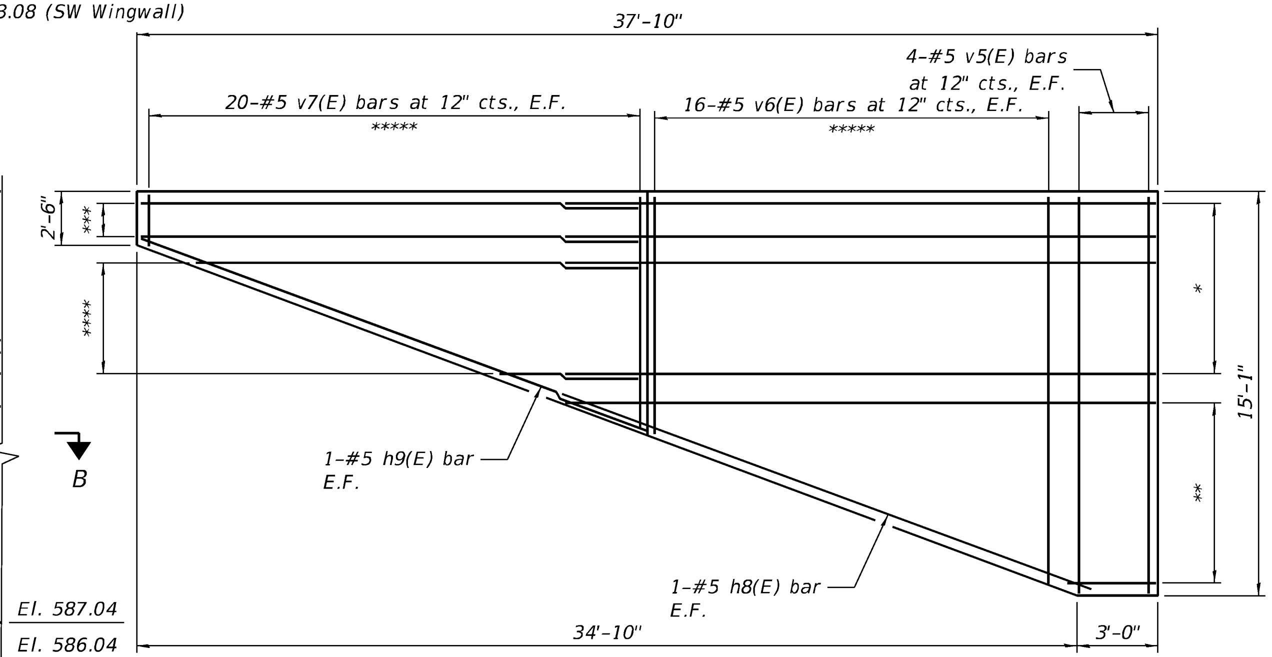
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(SW wall is shown, SE wall is similar)



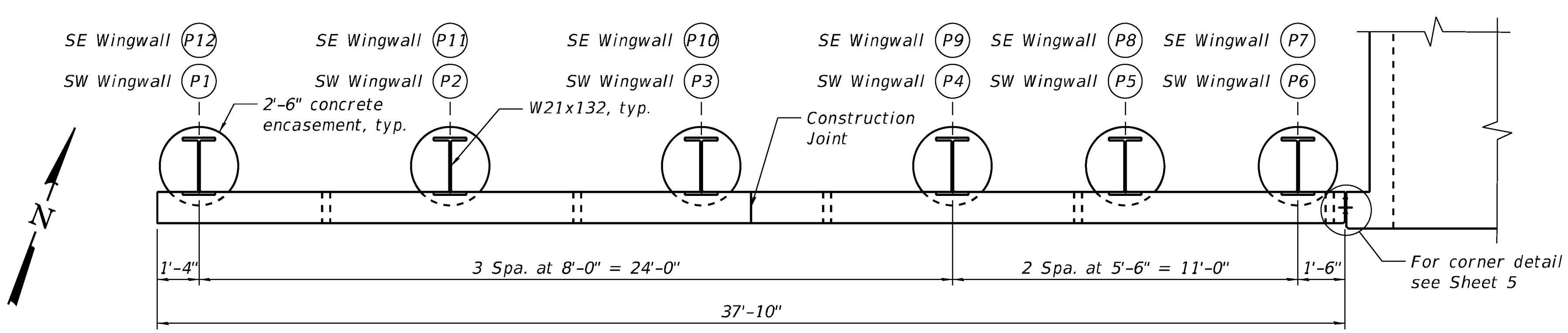
ELEVATION

(Showing Reinforcement, SW wingwall is shown, SE is similar)

* 8-#5 h4(E) bars at 12" cts., E.F.
** 8-#5 h5(E) bars at 12" cts., cut to fit and use the remainder of bars on opposite face.
*** 3-#5 h6(E) bars at 12" cts., E.F., lapped with h4(E)
**** 5-#5 h7(E) bars at 12" cts., lapped with h4(E), cut to fit and use the remainder of bars on opposite face.
***** cut to fit and use the remainder of bars on opposite face.

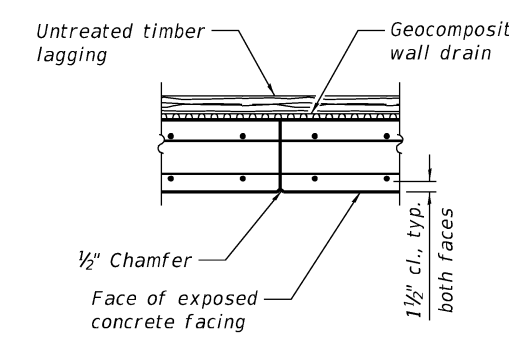
NOTES:

1. Contractor shall verify location of utilities prior to coring or drilling piles.
2. For Soldier Pile Wingwall Construction Sequence and Notes, see Sheet 11.
3. All Stations and offsets are taken from "℄ Main St.".
4. For Section A-A and Section B-B, see Sheet 11.
5. For wall drainage details and Weep Hole Drain Detail, see Sheet 11.
6. For Bar List, bar details and Bill of Material, see Sheet 10.



PLAN

(SW wall is shown, SE wall is similar)



CONSTRUCTION JOINT

MINIMUM BAR LAP

(Wall)
#5 bar = 3'-7"

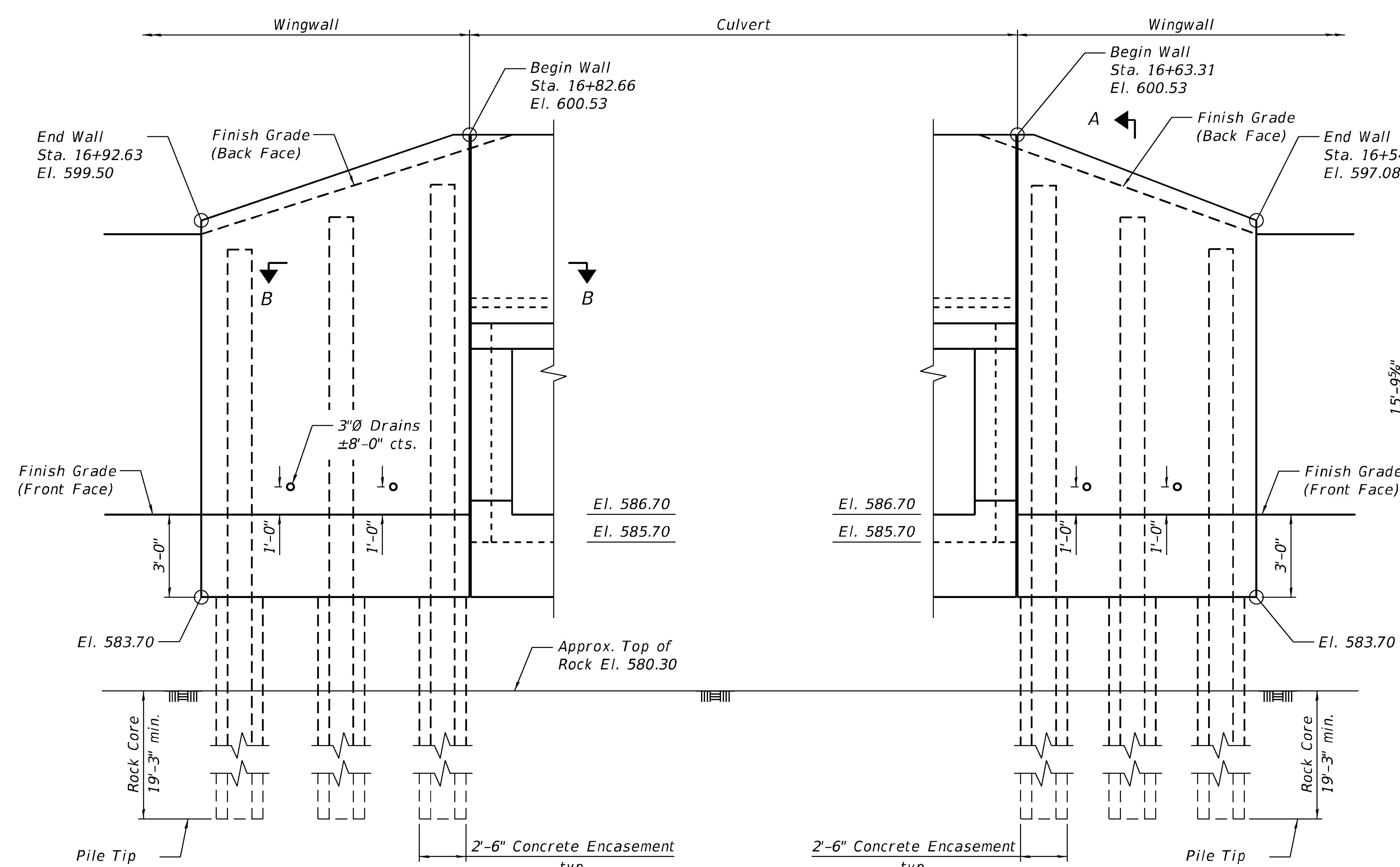
LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -
		CHECKED - RH	REVISED -
	PLOT SCALE =	DRAWN - MM	REVISED -
	PLOT DATE =	CHECKED - RH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

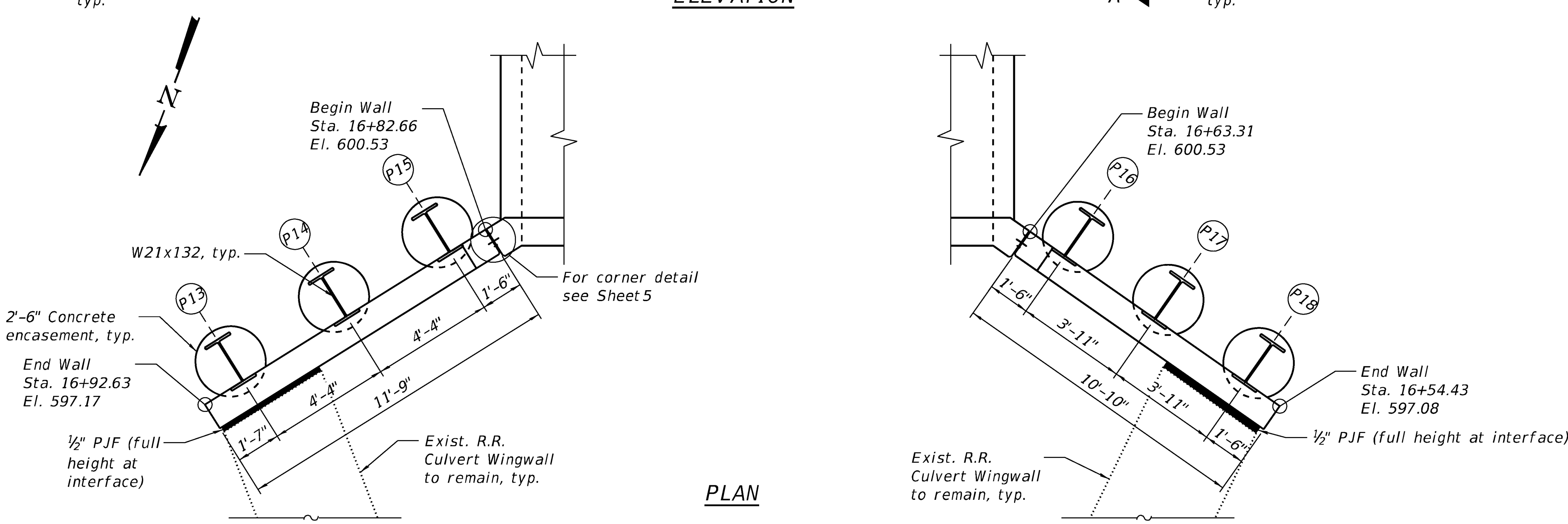
SOUTHEAST AND SOUTHWEST WINGWALL PLAN AND ELEVATION
SN 016-0984

SHEET 8 OF 12 SHEETS

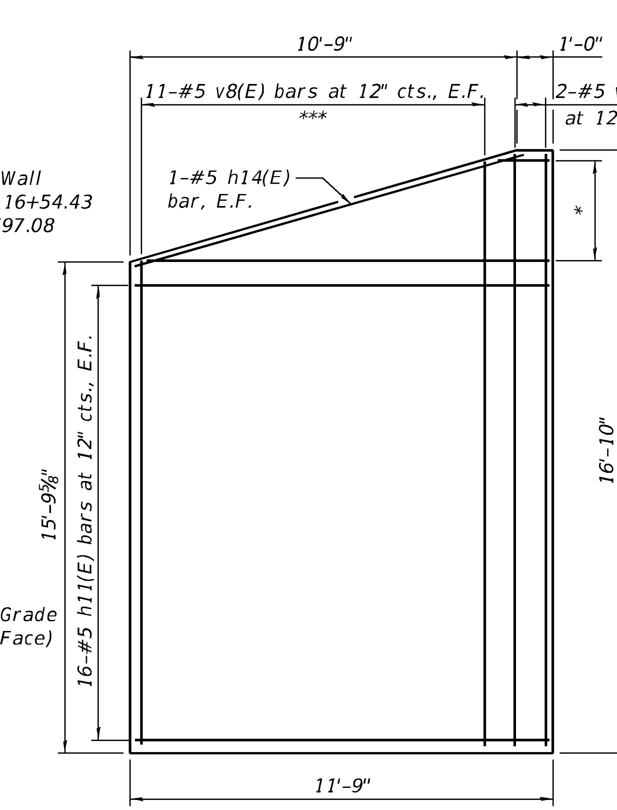
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	146
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

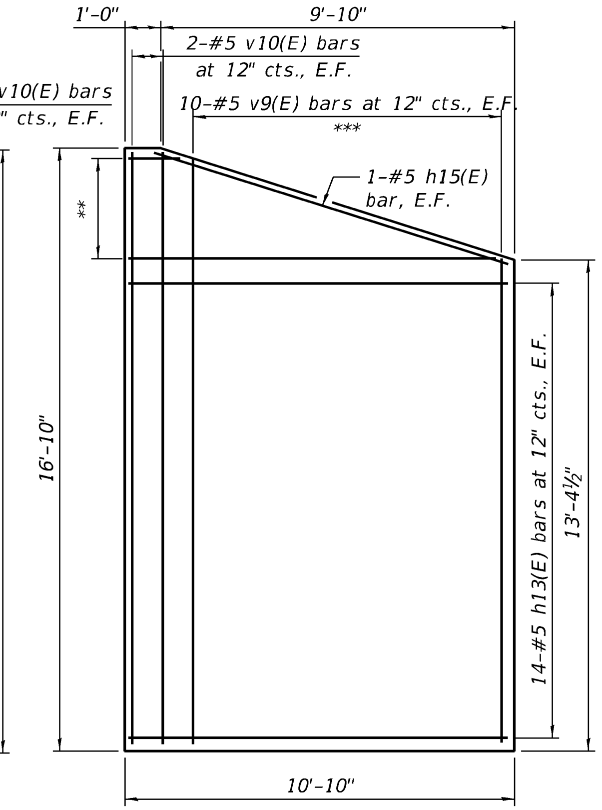


ELEVATION



PLAN





* 2-#5 h10(E) bars at 12" cts., cut to fit and use the remainder on opposite face
** 4-#5 h12(E) bars at 12" cts., cut to fit and use the remainder on opposite face
*** cut to fit and use the remainder on opposite face

ELEVATION
(NE Wingwall, Showing Reinforcement)

ELEVATION
(NW Wingwall, Showing Reinforcement)

NOTES:

1. Contractor shall verify location of utilities prior to coring or drilling piles.
2. For Soldier Pile Wingwall Construction Sequence and Notes, see Sheet 11 .
3. All Stations and offsets are taken from "℄ Main St.".
4. For Section A-A and Section B-B, see Sheet 11 .
5. For wall drainage details and Weep Hole Drain Detail, see Sheet 11 .
6. For Bar List, bar details and Bill of Material, see Sheet 10 .

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LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -
		CHECKED - RH	REVISED -
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	PLOT DATE =	CHECKED - RH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHEAST AND NORTHWEST WINGWALL PLAN AND ELEVATION
SN 016-0984
SHEET 9 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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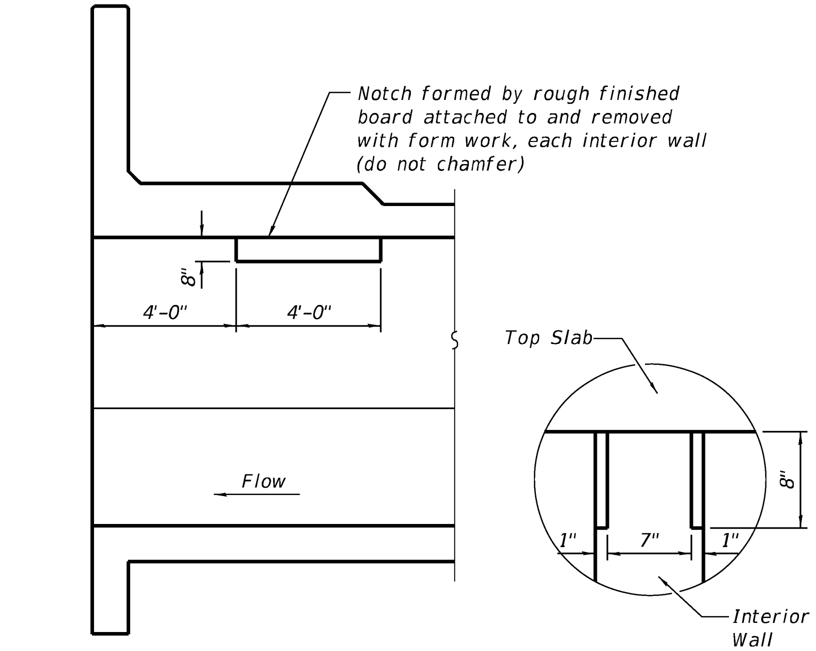
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

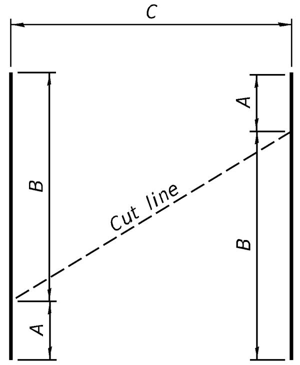


LONGITUDINAL SECTION

NOTCH DETAIL

PHOEBE NESTING SITE DETAILS

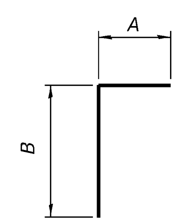
(Near downstream end only)



FIELD CUTTING DIAGRAM

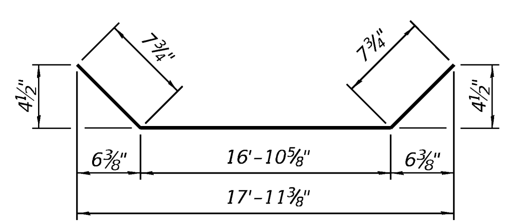
Order v6(E), v7(E), v8(E), v9(E),h5(E), h7(E), h10(E), and h12(E) full length.
Cut as shown and use remainder of bars in opposite face of wingwall.

Bar	A	B	C
v6(E)	9'-1"	14'-4"	16-#5 v6(E) bars
v7(E)	2'-3"	8'-11"	20-#5 v7(E) bars
v8(E)	15'-5"	16'-4"	11-#5 v8(E) bars
v9(E)	13'-1"	16'-1"	10-#5 v9(E) bars
h5(E)	3'-2"	22'-2"	8-#5 h5(E) bars
h7(E)	5'-11"	16'-10"	5-#5 h7(E) bars
h10(E)	0'-10"	10'-11"	2-#5 h10(E) bars
h12(E)	0'-10"	9'-1"	4-#5 h12(E) bars

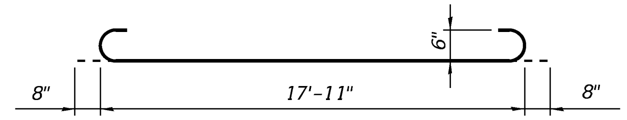


BARS v1(E), d1(E), d2(E) & d3(E)

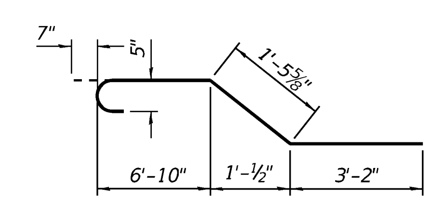
Bar	A	B
v1(E)	10"	5'-2"
d1(E)	1'-9"	2'-8"
d2(E)	10"	7'-5¼"
d3(E)	10"	5'-8¼"



BAR a1(E)



BAR a4(E)



BAR d4(E)

CONCRETE WINGWALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
v5(E)	16	#5	14'-9"	
v6(E)	32	#5	23'-5"	
v7(E)	40	#5	11'-2"	
v8(E)	11	#5	31'-9"	
v9(E)	10	#5	29'-2"	
v10(E)	8	#5	16'-6"	
h4(E)	32	#5	22'-6"	
h5(E)	16	#5	25'-4"	
h6(E)	12	#5	18'-7"	
h7(E)	10	#5	22'-9"	
h8(E)	4	#5	20'-9"	
h9(E)	4	#5	19'-9"	
h10(E)	2	#5	11'-9"	
h11(E)	32	#5	11'-5"	
h12(E)	4	#5	9'-11"	
h13(E)	28	#5	10'-6"	
h14(E)	2	#5	10'-8"	
h15(E)	2	#5	10'-4"	
Concrete Structures			Cu. Yd.	39.3
Protective Coat			Sq. Yd.	17
Stud Shear Connectors			Each	196
Reinforcement Bars, Epoxy Coated			Pound	4,910
Furnishing Soldier Piles (W Section)			Foot	620
Drilling And Setting Soldier Piles (In Soil)			Cu. Ft.	618
Drilling And Setting Soldier Piles (In Rock)			Cu. Ft.	1,500
Untreated Timber Lagging			Sq. Ft.	920
Geocomposite Wall Drain			Sq. Yd.	63

CONCRETE CULVERT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	8	#6	18'-3"	
a2(E)	8	#6	19'-5"	
a3(E)	208	#6	17'-11"	
a4(E)	208	#6	19'-3"	
a5(E)	2	#4	19'-5"	
d1(E)	36	#4	4'-5"	
d2(E)	47	#5	8'-4"	
d3(E)	47	#5	6'-7"	
d4(E)	110	#5	12'-3"	
h1(E)	224	#5	28'-6"	
h2(E)	42	#5	28'-6"	
h3(E)	24	#5	19'-5"	
v1(E)	324	#5	6'-0"	
v2(E)	324	#5	6'-3"	
v3(E)	4	#5	16'-4"	
v4(E)	4	#5	14'-7"	
Stone Riprap, Class A5			Sq. Yd.	175
Filter Fabric			Sq. Yd.	175
Aggregate Subgrade Improvement			Cu. Yd.	96
Removal And Disposal Of Unsuitable Material For Structures			Cu. Yd.	96
Protective Coat			Sq. Yd.	7
Reinforcement Bars, Epoxy Coated			Pound	27,000
Name Plates			Each	1
Concrete Box Culvert			Cu. Yd.	113.3

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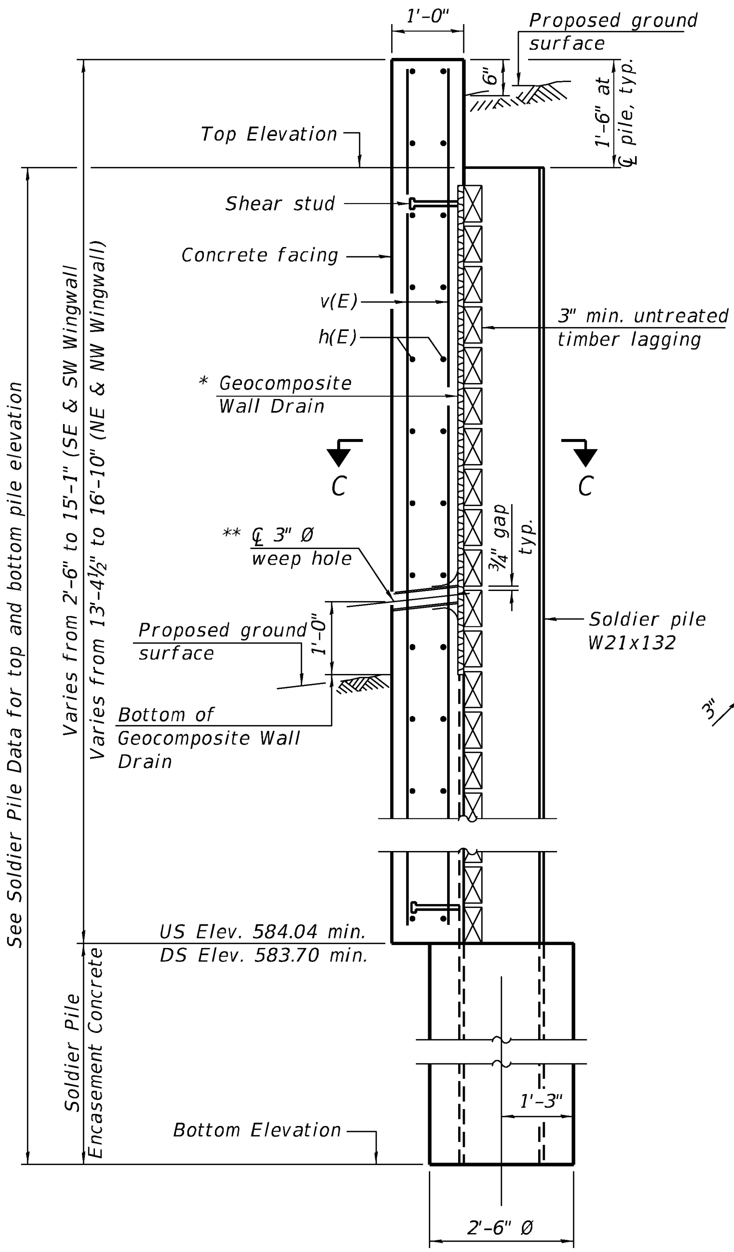
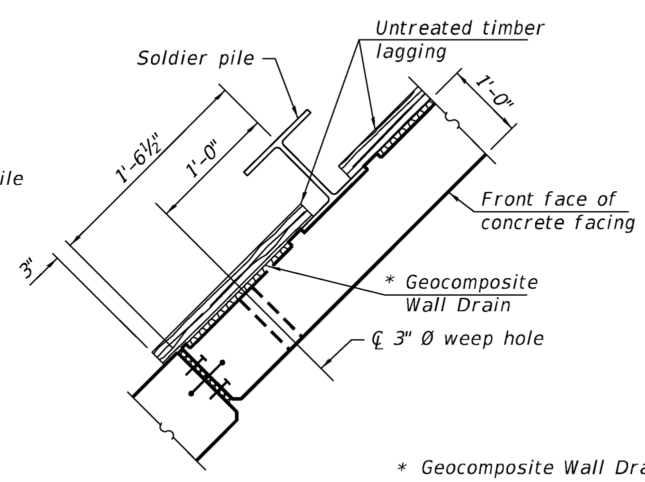
5/28/2025 10:42:26 AM

LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REINFORCEMENT SCHEDULE SN 016-0984
		CHECKED - RH	REVISED -		
	PLOT SCALE =	DRAWN - MM	REVISED -		
	PLOT DATE =	CHECKED - RH	REVISED -		SHEET 10 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	148
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		

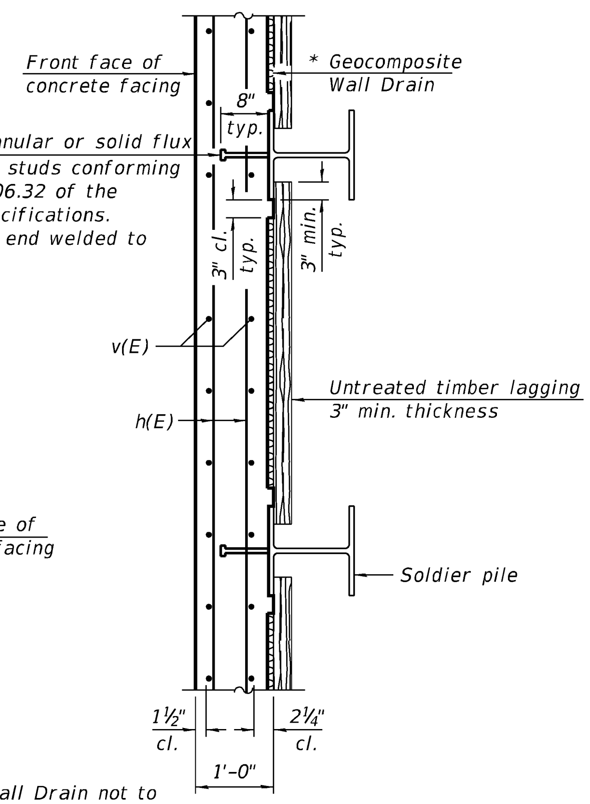


SECTION A-A



* Geocomposite Wall Drain not to exceed thickness of ¾".

SECTION B-B



SECTION C-C

SOLDIER PILE WINGWALL CONSTRUCTION SEQUENCE

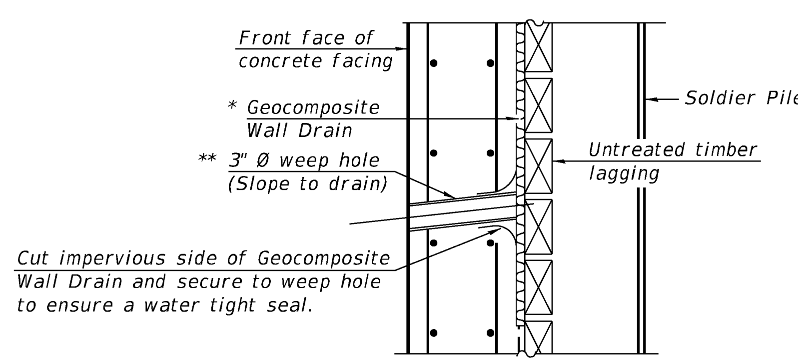
1. Construct concrete box culvert.
2. Drill soldier piles (may be completed prior to completing construction of box culvert).
3. Install timber lagging.
4. Place and compact backfill behind wingwall to top of timber lagging.
5. Install shear stud connectors.
6. Place reinforcement and form concrete wall face.
7. Cast concrete wingwall facing.
8. Place remainder of backfill to proposed ground surface elevations on both sides of wall (backfill front side of wall as much as possible before backfilling is completed).

NOTES:

1. In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 ft of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.
2. The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. For the location of Section A-A and B-B, see Sheet 8 & 9 .

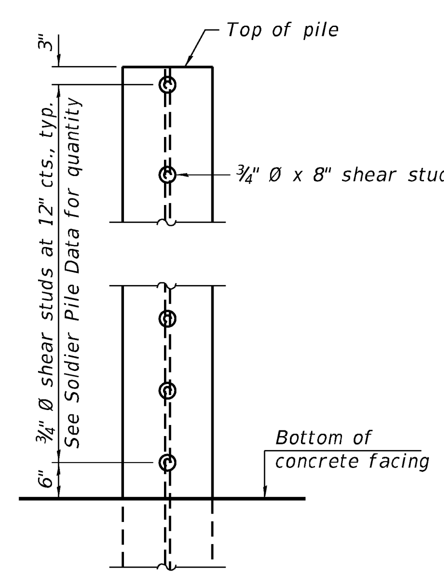
SOLDIER PILE DATA

Soldier Pile	Pile Size	Top Elevation	Bottom Elevation	Total Height (Ft.)	Number of Shear Studs
P1	W21x132	597.62	568.00	29.62	2
P2	W21x132	597.62	568.00	29.62	5
P3	W21x132	597.62	568.00	29.62	8
P4	W21x132	597.62	561.00	36.62	11
P5	W21x132	597.62	561.00	36.62	13
P6	W21x132	597.62	561.00	36.62	14
P7	W21x132	597.62	561.00	36.62	14
P8	W21x132	597.62	561.00	36.62	13
P9	W21x132	597.62	561.00	36.62	11
P10	W21x132	597.62	568.00	29.62	8
P11	W21x132	597.62	568.00	29.62	5
P12	W21x132	597.62	568.00	29.62	2
P13	W21x132	598.15	561.00	37.15	15
P14	W21x132	598.57	561.00	37.57	16
P15	W21x132	598.99	561.00	37.99	16
P16	W21x132	598.60	561.00	37.60	16
P17	W21x132	597.36	561.00	36.36	14
P18	W21x132	596.12	561.00	35.12	13



WEEP HOLE DRAIN DETAIL

** Cost of the weep hole drain and connection to the Geocomposite Wall Drain are included in the cost of Concrete Box Culverts.



SHEAR STUD DETAIL

(Elevation of pile shown)

LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOLDIER PILE WINGWALL DETAILS SN 016-0984
		CHECKED - RH	REVISED -		
	PLOT SCALE =	DRAWN - MM	REVISED -		
	PLOT DATE =	CHECKED - RH	REVISED -		SHEET 11 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	149
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

BORING LOG CUL-01-01

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 590.72 ft
North: 1825433.24 ft
East: 1078829.34 ft
Station: 16+71.86
Offset: 26.71' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
590.3	5-inch thick, gray SANDY GRAVEL; saturated					
	Very soft to medium stiff, gray and black SILTY CLAY LOAM, trace to little gravel; moist to wet --trace organic matter--		1	PUSH	0.50 P	25
	--black--		2	PUSH	< 0.25 P	40
		5	3	PUSH	< 0.25 P	22
585.2	--REFUSAL-- Boring terminated at 5.50 ft					
		10				
		15				
		20				

GENERAL NOTES

Begin Drilling 10-12-2021 Complete Drilling 10-12-2021
Drilling Contractor Wang Testing Services Drill Rig Geoprobe HA
Driller R&A Logger M. Sadowski Checked by C. Marin
Drilling Method 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling 0.00 ft
At Completion of Drilling 0.00 ft
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG CUL-01-02

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 602.26 ft
North: 1825411.34 ft
East: 1078821.23 ft
Station: 16+56.53
Offset: 9.09' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
601.4	10-inch thick ASPHALT --PAVEMENT--					
600.8	8-inch thick CONCRETE --PAVEMENT--					
	Loose, gray and brown SANDY GRAVEL; damp --FILL--		1	6 5 4	NP	3
599.0	Medium stiff to stiff, brown SILTY CLAY LOAM, little gravel; damp --FILL-- --RDR 2--	5	2	3 3 3	1.00 P	32
595.8	Very loose to very dense, brown and tan to gray SANDY GRAVEL; dry to saturated --RDR 2-4--		3	3 2 2	0.50 P	21
		10	4	4 4 7	NP	
	--rig chatter-- --possible cobbles--		5	12 7 6	NP	4
		15	6	7 1 2	NP	8
			7	50/6"	NP	13
584.8	Stiff, gray and black SILTY CLAY LOAM to SILTY LOAM, trace gravel; moist --RDR 2-- --trace organic matter-- --L_L(%)=38, P_L(%)=20--	20	8	1 2 8	1.00 P	25
581.8	--%Gravel=5.0-- --%Sand=19.8-- --%Silt=57.4-- --%Clay=17.8-- --A-6 (12)--					
580.3	--hard drilling from 20.5 to 22.0 feet-- --Weathered BEDROCK--			CORE		
	Very strong, light bluish gray, fair quality, DOLOSTONE; Closely spaced, moderately weathered, horizontal joints, with <0.05 inch opening, slightly rough walls, and <0.2 inch thick sand infill. --Run 1: 22.0 to 32.0 feet-- --Recovery: 100%-- --RQD: 62%-- --Drilling rate: 3 min/foot	25	9			
		30				
570.3	Boring terminated at 32.00 ft					
		35				
		40				

GENERAL NOTES

Begin Drilling 10-08-2021 Complete Drilling 10-08-2021
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%]
Driller R&A Logger M. Sadowski Checked by C. Marin
Drilling Method 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling 13.50 ft
At Completion of Drilling 16.00 ft
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG CUL-01-03

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 602.26 ft
North: 1825404.23 ft
East: 1078865.79 ft
Station: 16+95.70
Offset: 13.32' RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
601.2	13-inch thick ASPHALT --PAVEMENT--					
600.7	Brown and gray SANDY GRAVEL; damp --AGGREGATE BASE--		1	7 5 12	0.50 P	
599.8	Medium stiff, gray and light gray CLAY LOAM, little gravel; damp --FILL-- --RDR 2--		2	5 4 5	NP	6
	Loose to medium dense, brown and gray SANDY GRAVEL; damp --RDR 2 to 3--	5	3	9 15 9	NP	6
594.3	Medium stiff, brown SILTY CLAY LOAM, little gravel; damp --RDR 2 to 3--	10	4	4 7 9	1.80 B	21
591.8	Loose to medium dense, gray SANDY GRAVEL; damp to saturated --cobble fragments--		5	3 6 8	NP	4
	--RDR 3 to 4-- --some to frequent rig chatter, 15.0 to 16.0 feet-- --possible cobbles--	15	6	13 3 3	NP	
586.0	Very soft, gray SILTY CLAY LOAM, little gravel; wet --RDR 1 to 2--		7	4 3 8	< 0.25 P	48
584.3	Very dense, gray SANDY GRAVEL; saturated --RDR 3--	20	8	6 6 50/5"	NP	16
	--possible cobbles--		9	50/1"	NR	
580.3	Very strong, light gray, poor rock mass quality DOLOSTONE; slightly weathered rock and joints, closely spaced horizontal and oblique joints, with less than 0.2-inch joint opening, hard joint wall, slightly rough joint wall surface, soft infill strength, and less than 0.2-inch infill thickness. --Run 1: 22.0 to 32.0 feet-- --Recovery = 100%-- --RQD = 49%-- --Drilling rate: 3.5 min/foot--	25	10	CORE		
		30				
570.3	Boring terminated at 32.00 ft					
		35				
		40				

GENERAL NOTES

Begin Drilling 10-06-2021 Complete Drilling 10-06-2021
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%]
Driller R&H Logger F. Bozga Checked by C. Marin
Drilling Method 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling 16.25 ft
At Completion of Drilling 20.00 ft
Time After Drilling NA
Depth to Water NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/11/21

NOTES:

1. For locations of boreholes, see Sheet 1.

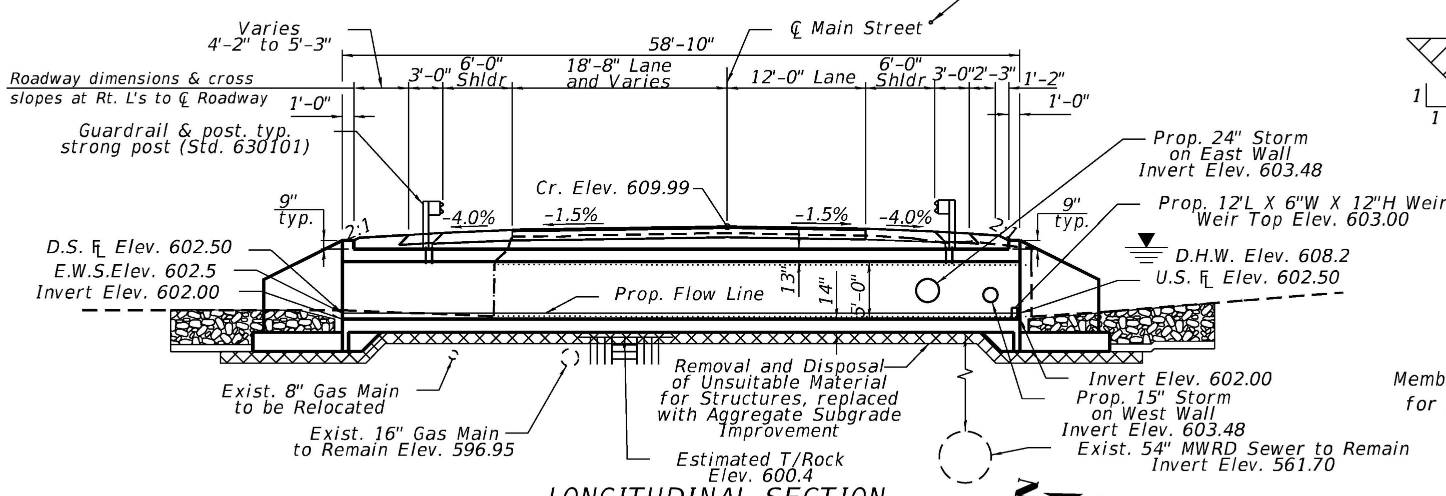
Benchmark: BM 0150. Survey disk in concrete headwall 102' west of Boyer Street and 20.4' north of ℄ Main Street (Chicago Joliet Road), El. 609.147

Existing Structure: S.N. 016-0917 appears to have been constructed circa 1900. The original structure is a 11ft by 4.5ft single-span R.C. slab supported by stacked stone abutments. The structure was extended upstream with a 11ft x 4.5ft single-cell CIP concrete box culvert. The structure was again extended upstream with a 11ft by 4.5ft single cell CIP concrete box culvert angled to meet the approach channel. Plans for the original construction and widening are not available. Structure to be removed and replaced with a triple-barrel box culvert. Road to be closed during construction.

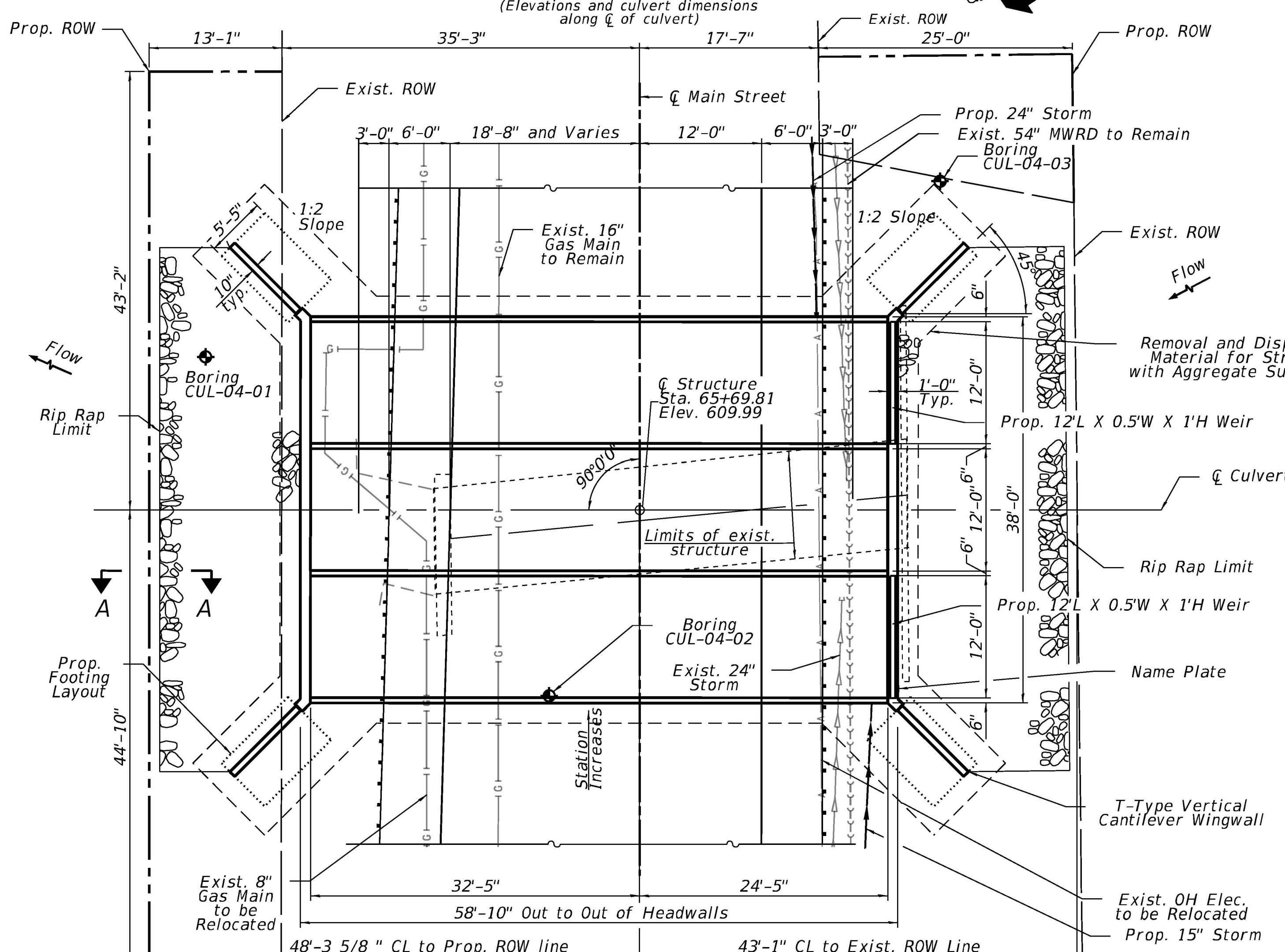
No salvage

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

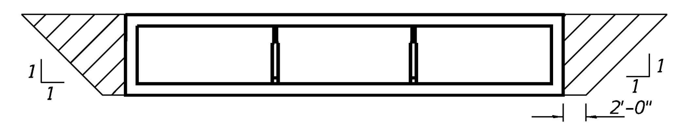
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures



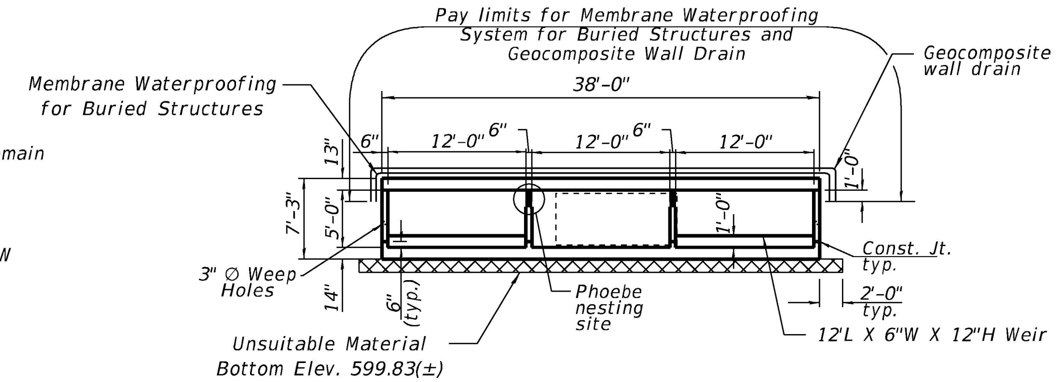
LONGITUDINAL SECTION
(Elevations and culvert dimensions along ℄ of culvert)



PLAN

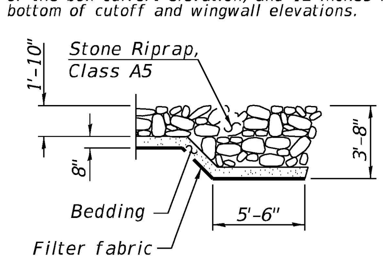


LIMITS FOR POROUS GRANULAR EMBANKMENT
(HATCHED AREA)



SECTION THRU BARREL

Note:
Remove a minumum of 12 inches below the bottom of the box culvert elevation, and 12 inches below bottom of cutoff and wingwall elevations.



SECTION A-A

LEGEND

Symbol	Description
◈	Soil boring location
—G—	Existing underground gas main
—FO—	Existing underground fiber optic
->->-	Existing underground sanitary sewer
—A—	Existing aerial line
—▷	Existing underground storm sewer
—▶	Proposed underground storm sewer
⊠	Remove & replace unsuitable material

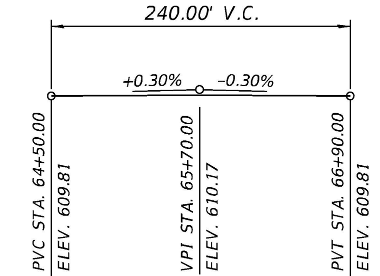
WATERWAY INFORMATION

Drainage Area = 2.31 sq. mi. Low Grade Elev. = 609.7 @ Sta. 69+50

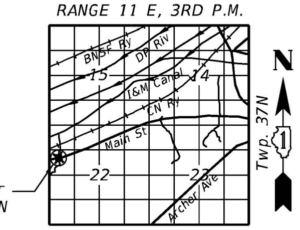
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	530	50	150	607.6	1.60	0	609.25	607.60
Design	50	920	50	150	608.2	1.67	0	609.85	608.20
Base	100	1170	50	150	608.5	1.67	0.7	610.17	609.20
Overtopping									
Max. Calc.	500	1700	50	150	609.0	1.59	1.1	610.59	610.10

10-Year Velocity through Existing Structure = 5 ft/s
10-Year Velocity through Proposed Structure = 1.6 ft/s
2-Year Flow Rate = 100 cfs

Mott-Macdonald Richard Obisanya
Richard Obisanya, S.E.
DATE: 2/12/2025
081-008566
SIGNATURES AND SEAL APPLY TO SHEETS 1 THRU 7
EXP. DATE: 11/30/2026
LICENSED STRUCTURAL ENGINEER Richard Obisanya 081-008566 STATE OF ILLINOIS



PROFILE GRADE
(Along ℄ Main Street)



LOCATION SKETCH

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

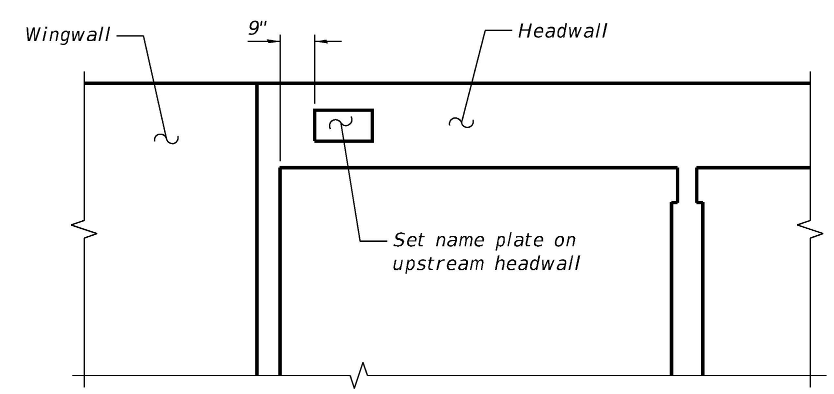
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)

GENERAL PLAN & ELEVATION
MAIN STREET OVER I & M CANAL TRIBUTARY B
FAU 3587 - SEC. 2020-142-C &DR
COOK COUNTY
STATION 65+69.81
STRUCTURE NO. 016-1426

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within ⅓ of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. All exposed concrete edges shall be chamfered ¾" except as noted.
5. Precast alternate not allowed.

INDEX OF SHEETS



NAME PLATE LOCATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Backfill	Cu. Yd.	180
Stone Riprap, Class A5	Sq. Yd.	195
Filter Fabric	Sq. Yd.	195
Aggregate Subgrade Improvement	Cu. Yd.	116
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	116
Reinforcement Bars, Epoxy Coated	Pound	50,935
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	234.8
Geocomposite Wall Drain	Sq. Yd.	266
Membrane Waterproofing System For Buried Structures	Sq. Yd.	266
Strong Post Guardrail Attached to Culvert	Foot	100

STATION 65+69.81
BUILT BY
STATE OF ILLINOIS
FAU 3587-SEC.2020-142-C&DR
LOADING HL-93
STRUCTURE NO. 016-1426

NAME PLATE
See Std. 515001

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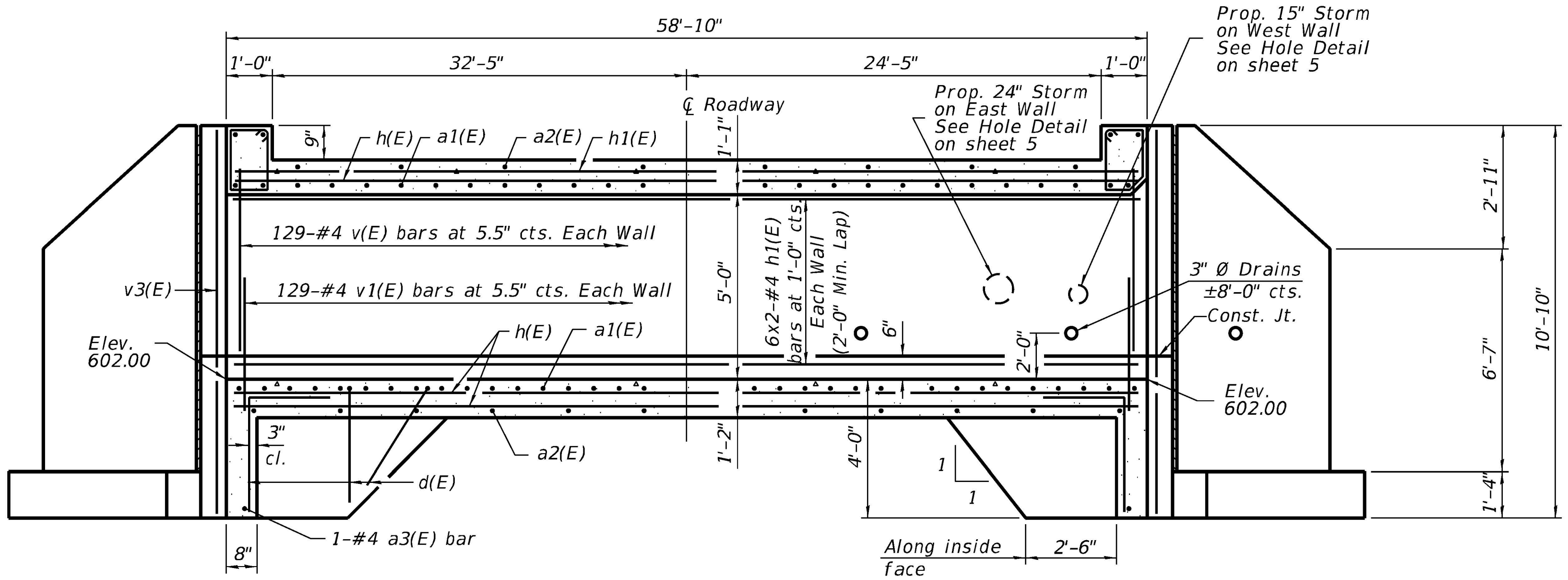
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - RAO	REVISED -
		DRAWN - MM	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

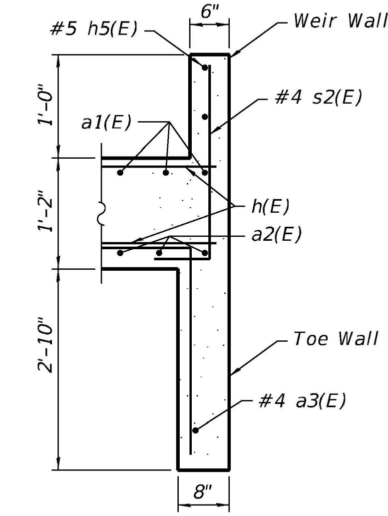
GENERAL NOTES AND BILL OF MATERIALS
STRUCTURE NO. 016-1426

SCALE: | SHEET 2 OF 7 SHEETS | STA. | TO STA.

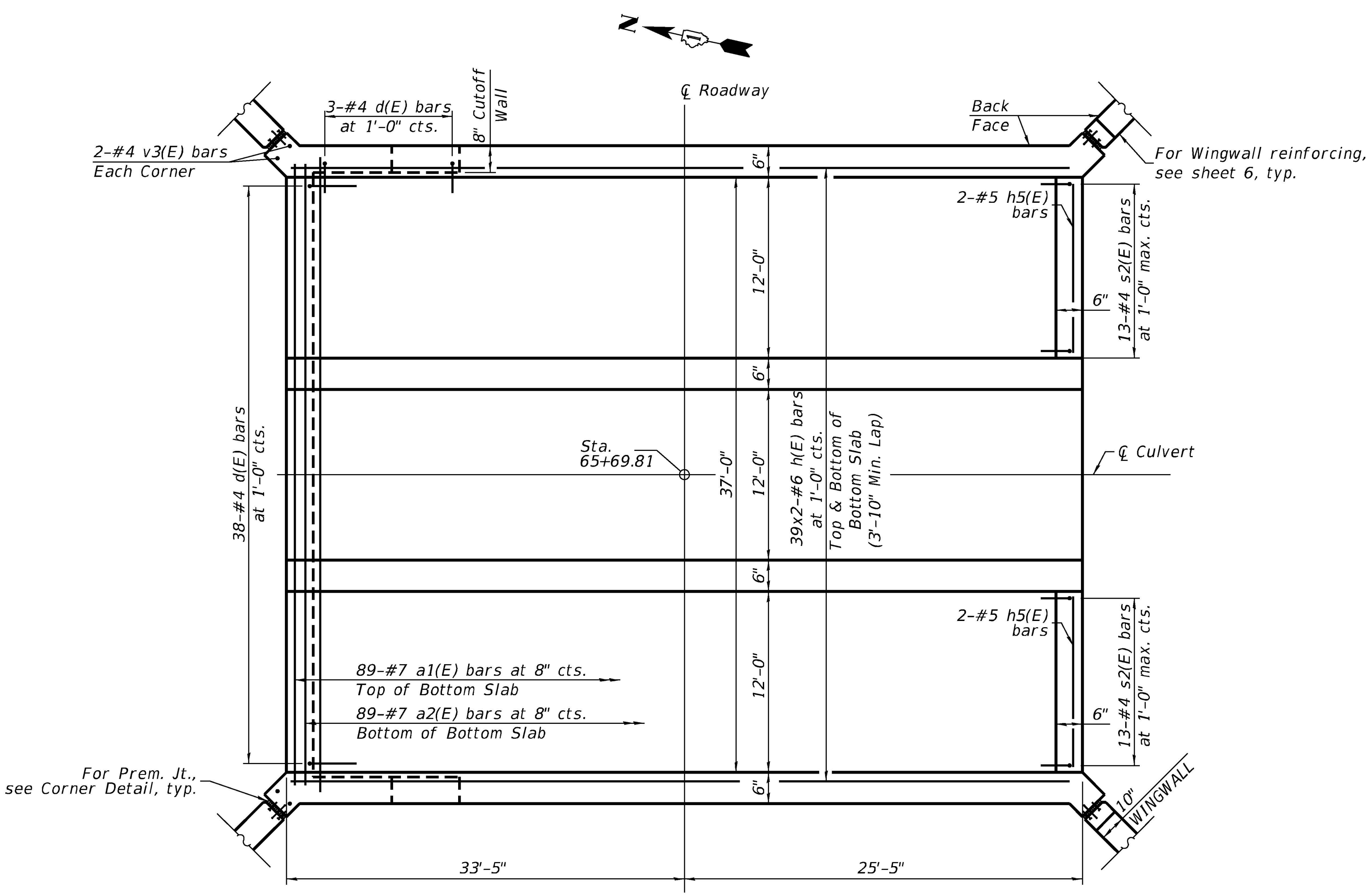
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	152
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



LONGITUDINAL SECTION
(Along ℄ of culvert)



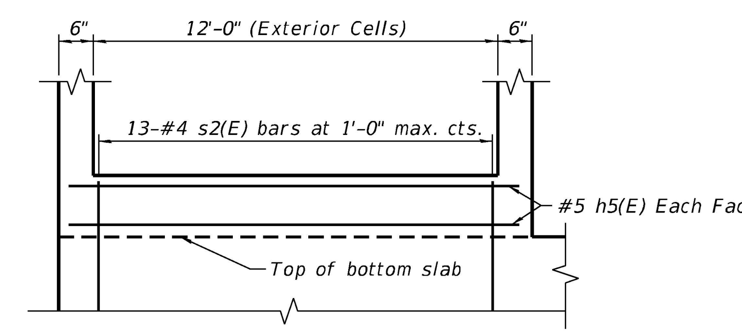
SECTION THROUGH WEIR WALL



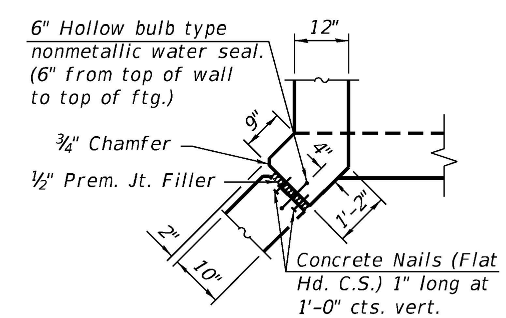
SHOWING TOEWALL AND CUTOFF WALL

SHOWING WEIR WALL

PLAN - BOTTOM SLAB



WEIR WALL REINFORCING



CORNER DETAIL

Notes:
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - MM	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

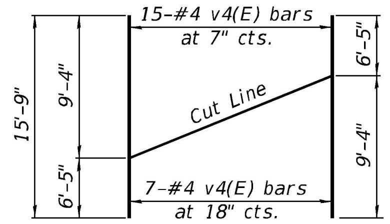
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN BOTTOM SLAB DETAILS
STRUCTURE NO. 016-1426

SCALE: N.T.S. | SHEET 3 OF 7 SHEETS | STA. | TO STA.

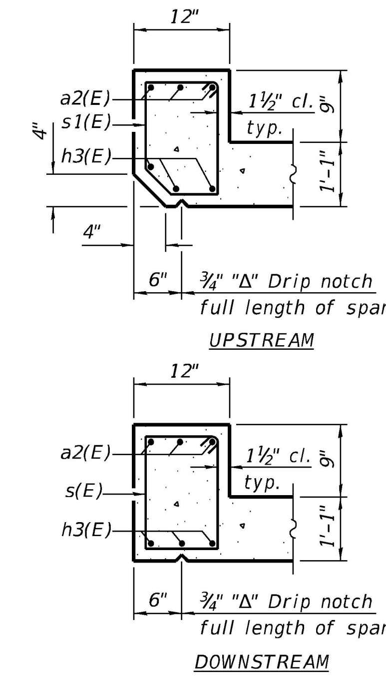
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	153

CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT



FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall. (Make two sets as shown.)



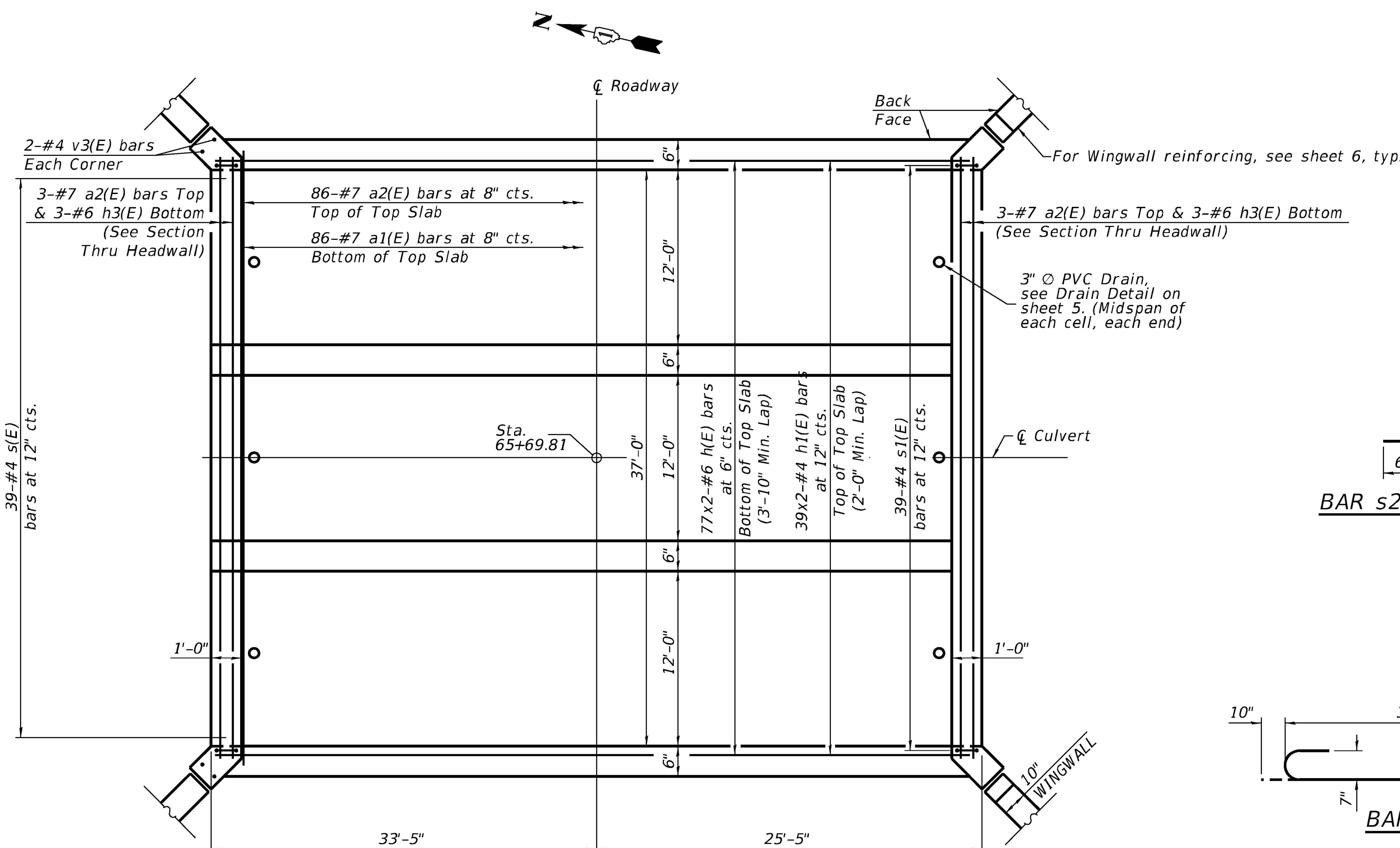
SECTION THRU HEADWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	175	#7	39'-4"	
a2(E)	181	#7	37'-8"	
a3(E)	2	#4	37'-8"	
d(E)	88	#4	5'-5"	
h(E)	310	#6	31'-2"	
h1(E)	126	#4	30'-3"	
h2(E)	136	#4	7'-11"	
h3(E)	6	#6	37'-8"	
h4(E)	16	#4	4'-0"	
h5(E)	4	#5	12'-8"	
n(E)	60	#5	4'-10"	
s(E)	39	#4	5'-5"	
s1(E)	39	#4	5'-3"	
s2(E)	26	#4	2'-4"	
t(E)	76	#4	5'-2"	
v(E)	516	#4	5'-4"	
v1(E)	516	#4	4'-1"	
v3(E)	8	#4	10'-6"	
v4(E)	44	#4	15'-9"	
Concrete Box Culverts			Cu. Yd.	234.8
Reinforcement Bars, Epoxy Coated			Pound	50935

MINIMUM BAR LAP

(Slab)
#4 bar = 2'-0"
#6 bar = 3'-10"



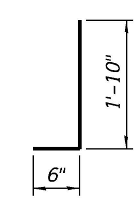
SHOWING HEADWALLS

PLAN – TOP SLAB

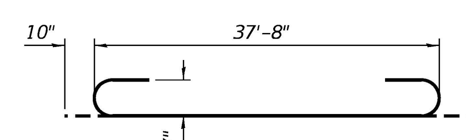
Notes:

Bars indicated thus 12 x 4–#5 etc. indicates 12 lines of bars with 4 lengths per line.

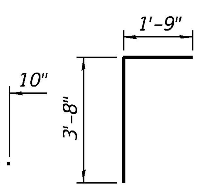
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.



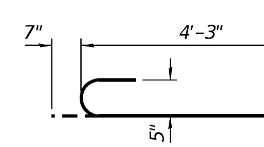
BAR s2(E)



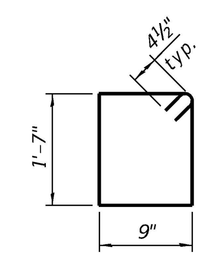
BAR a1(E)



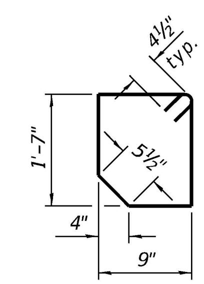
BAR d(E)



BAR n(E)



BAR s(E)



BAR s1(E)

MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user500	DESIGNED - RAO	REVISED -
		DRAWN - MM	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
	PLOT DATE = 2/4/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN TOP SLAB DETAILS
STRUCTURE NO. 016–1426

SCALE: N.T.S. | SHEET 4 OF 7 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	154
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

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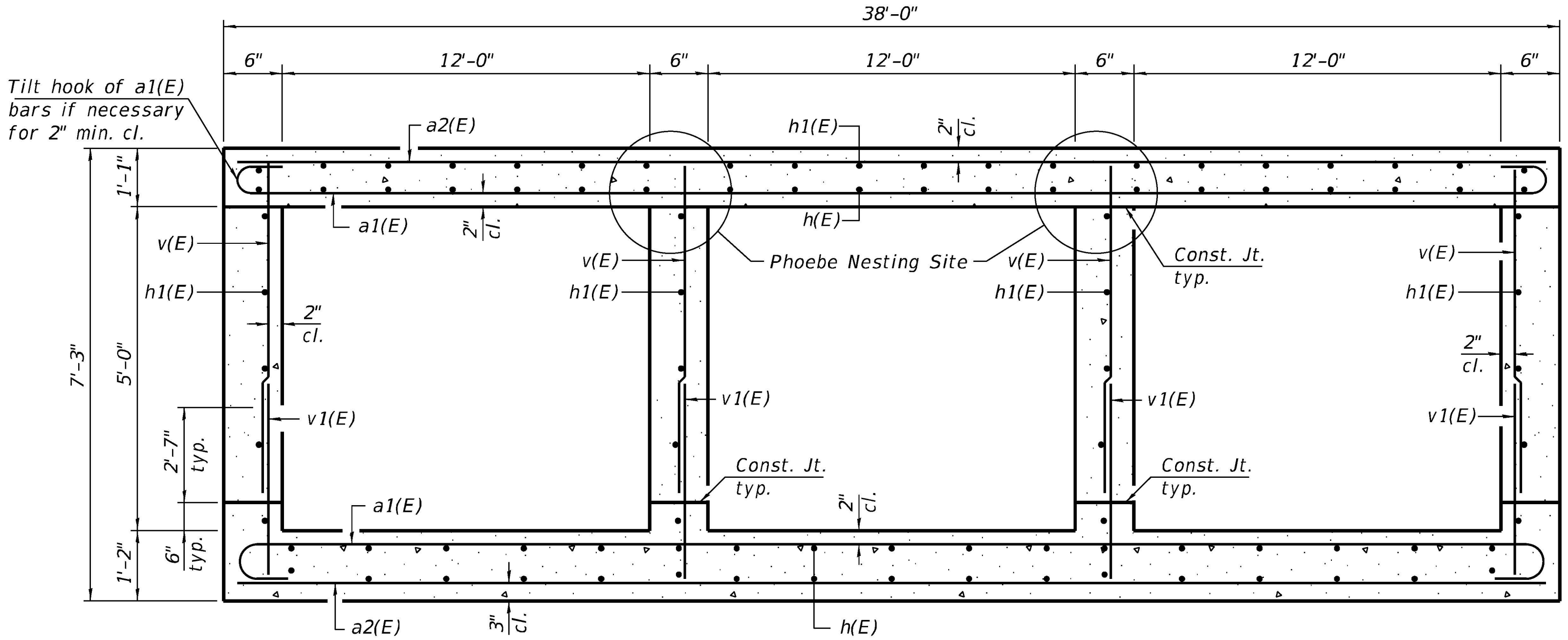
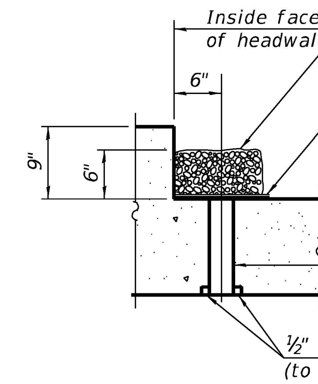


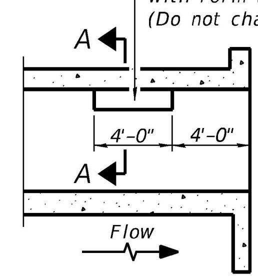
SECTION THRU BARREL

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

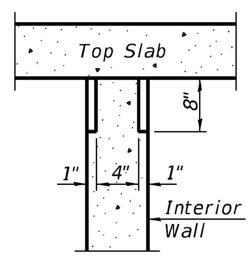


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

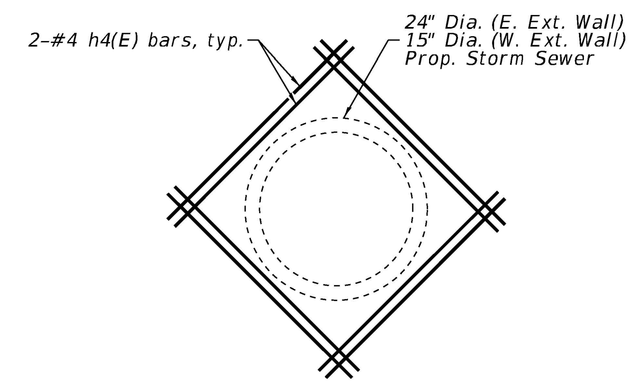


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS



HOLE DETAIL

Note: Cut vertical and horizontal wall reinforcing bars to clear hole. Provide 2" clear.

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St., #2520, Chicago, IL 60603

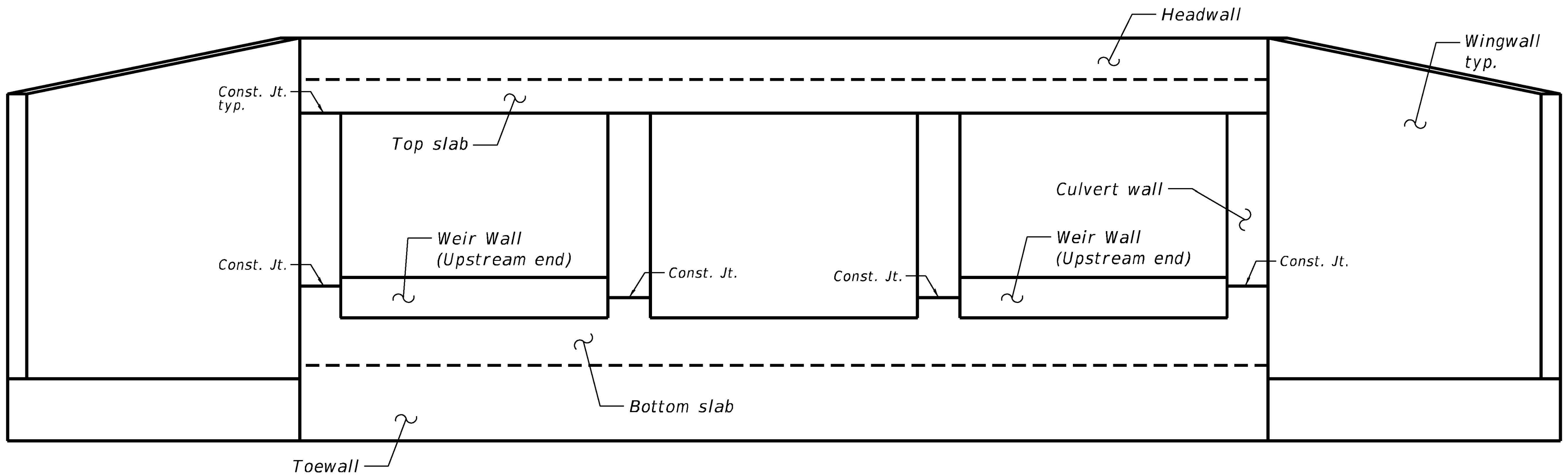
USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - MM	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

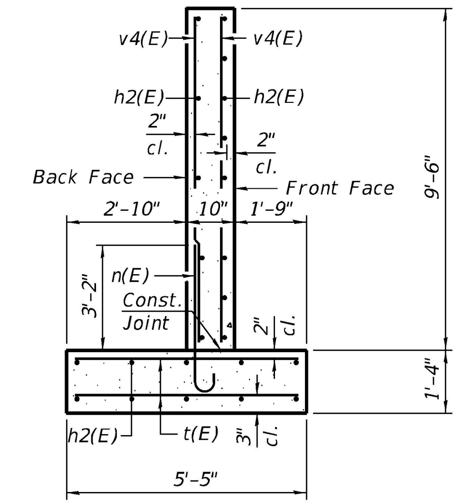
CULVERT DETAILS
STRUCTURE NO. 016-1426

SCALE: N.T.S. | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	155
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

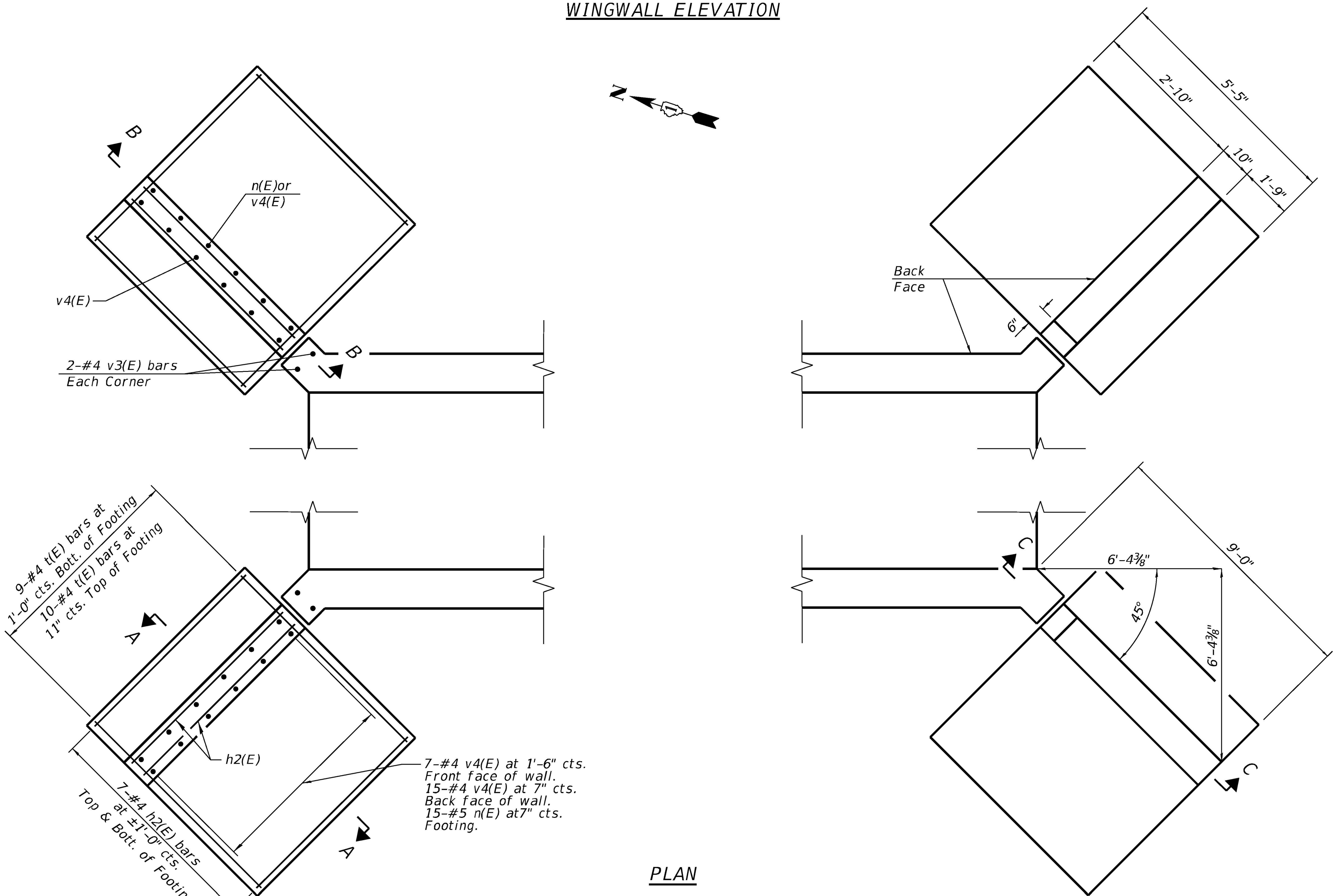


WINGWALL ELEVATION

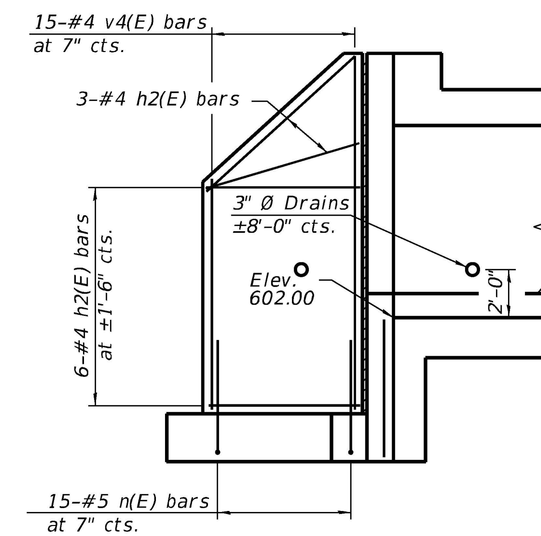


SECTION A-A

(Max. Applied Service Bearing Pressure = 2.5 ksf)

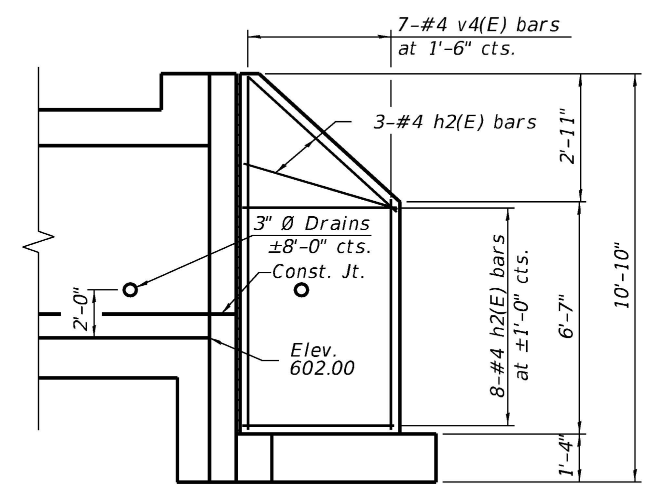


PLAN



SECTION B-B

(Showing Reinforcing on back face of wall)



SECTION C-C

(Showing Reinforcing on front face of wall)

MODEL: Default
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MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED -	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL PLAN AND ELEVATION
STRUCTURE NO. 016-1426

SCALE: N.T.S. | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK		156
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

BORING LOG CUL-04-01

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 606.25 ft
North: 1826813.27 ft
East: 1083539.50 ft
Station: 65+84.79
Offset: 42.75' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Brown SANDY LOAM to GRAVELLY SAND, trace organic matter, little gravel; dry to damp	1	PUSH	NP	19
604.0	Brown and gray SANDY GRAVEL; wet --Weathered BEDROCK--	2	PUSH	NP	13
602.3	--REFUSAL-- Boring terminated at 4.00 ft				

GENERAL NOTES

Begin Drilling: 10-11-2021 Complete Drilling: 10-11-2021
Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
Driller: R&A Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 3.75 ft
At Completion of Drilling: 3.75 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/9/21

BORING LOG CUL-04-02

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 609.41 ft
North: 1826773.08 ft
East: 1083514.26 ft
Station: 65+51.50
Offset: 8.93' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
603.9	6-inch thick ASPHALT --PAVEMENT--				
603.2 / 603.9	9-inch thick CONCRETE --PAVEMENT--				
	3-inch thick, brown SANDY GRAVEL --AGGREGATE BASE--	1	8 4 3	1.50 P	15
605.2	Medium stiff to stiff, brown CLAY LOAM, trace to some gravel; damp --FILL-- --RDR 2-3--	2	7 12 10	0.50 P	21
603.9	Brown and tan LOAM, some gravel; damp --RDR 3--	3	50/4"	NP	18
	Very dense, gray Gravelly SANDY LOAM, some weathered DOLOSTONE fragments; saturated --Weathered BEDROCK--	4		NP	7
600.4	Strong, light bluish gray, fair quality, DOLOSTONE; closely spaced, slightly weathered, horizontal and oblique joints, with <0.05 inch opening, slightly rough walls, and <0.2 inch thick sand infill. --Run 1: 9.0 to 19.0 feet-- --Recovery: 100%-- --RQD: 62%-- --Qu at 15.5 feet = 4852 psi--	5	50/2" CORE		
590.4	Boring terminated at 19.00 ft				

GENERAL NOTES

Begin Drilling: 10-08-2021 Complete Drilling: 10-08-2021
Drilling Contractor: Wang Testing Services Drill Rig: 20CME55T[81%]
Driller: R&A Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 5.50 ft
At Completion of Drilling: 7.50 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/9/21

BORING LOG CUL-04-03

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 608.26 ft
North: 1826746.36 ft
East: 1083572.01 ft
Station: 66+02.14
Offset: 29.59' RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
607.3	12-inch thick, stiff, black SILTY CLAY LOAM, trace gravel; damp --TOPSOIL--	1	3 4 7 10	1.50 P	30
	Very dense, gray GRAVEL; dry to damp --Weathered BEDROCK-- --RDR 3--	2	50/5"	NP	
604.3	--AUGER REFUSAL-- Boring terminated at 4.00 ft				

GENERAL NOTES

Begin Drilling: 10-18-2021 Complete Drilling: 10-18-2021
Drilling Contractor: Wang Testing Services Drill Rig: 20D25A [83%]
Driller: K&A Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/9/21

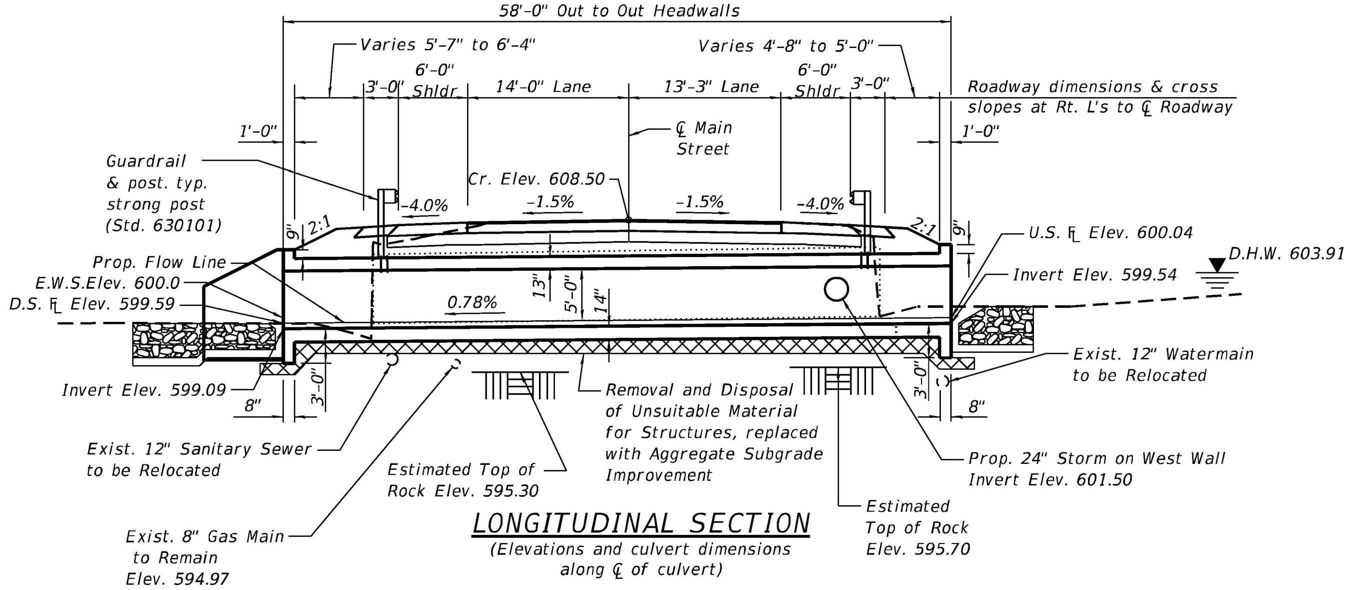
Benchmark: BM 0151. Survey disk in concrete headwall 437' west of ℄ end to Maley Road Industry Park and 21.9' north of ℄ Main St., El. 606.87

Existing Structure:
S.N. 016-0915 appears to have been constructed circa 1900. The original structure is a single cell 8ft x 6ft masonry arch culvert. The structure was extended at both ends with a CIP concrete arch culvert. The structure was again extended downstream with a CIP concrete box culvert. Plans for the original construction and widening are not available. Structure to be removed and replaced with a single-barrel box culvert. Road to be closed during construction.

No salvage

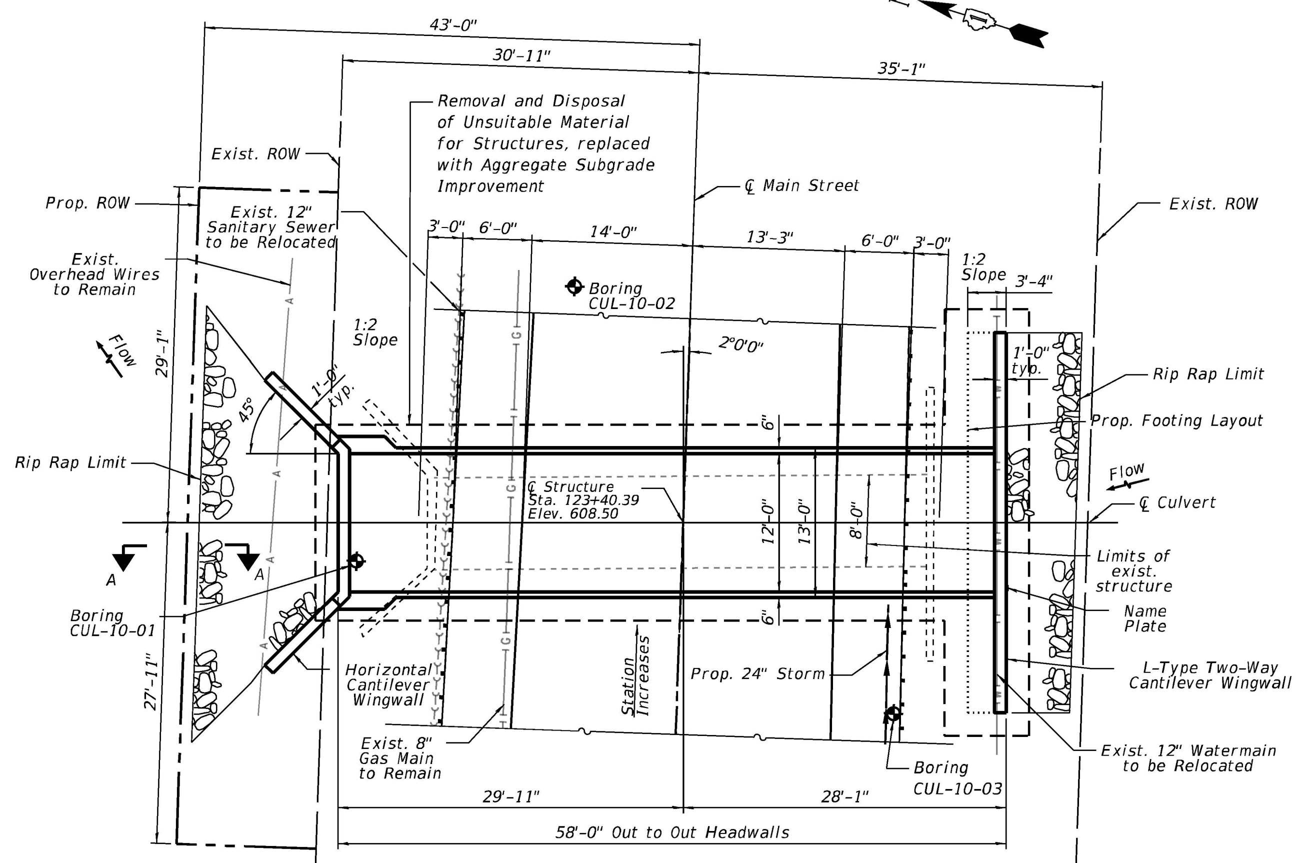
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The removal and disposal of unsuitable material for structures is not needed under the horizontal cantilever wingwalls at the north end of the structure.

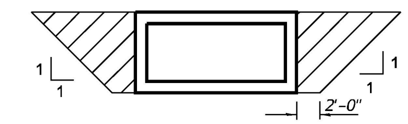


LONGITUDINAL SECTION

(Elevations and culvert dimensions along ℄ of culvert)



PLAN



LIMITS FOR POROUS GRANULAR EMBANKMENT

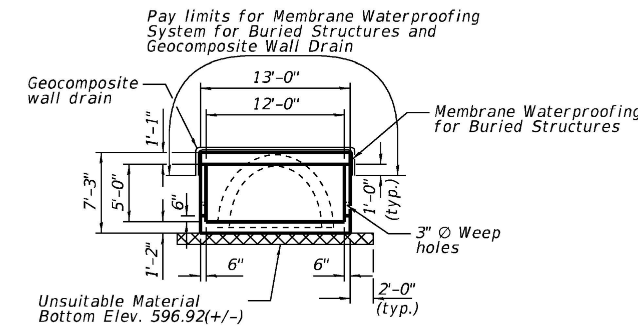
(Hatched area)

WATERWAY INFORMATION

Drainage Area = 0.5 sq. mi. Low Grade Elev. 608.6 = @ Sta. 123+00									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	124	18	25	602.1	1.3	0.23	603.5	602.33
Design	50	257	25	36	603.0	2.9	0.91	605.9	603.91
Base	100	322	27	40	603.3	3.9	1.30	607.3	604.60
Overtopping									
Max. Calc.									

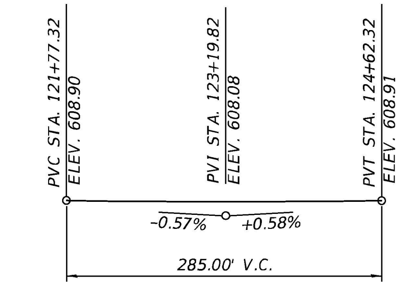
10-Year Velocity through Existing Structure = 9 ft/s
10-Year Velocity through Proposed Structure = 5 ft/s

Mott-Macdonald
Richard Obisanya, S.E.
DATE: 2/12/2025
081-008566
SIGNATURES AND SEAL APPLY TO SHEETS 1 THRU 7
EXP. DATE: 11/30/2026
LICENSED STRUCTURAL ENGINEER Richard Obisanya 081-008566 STATE OF ILLINOIS



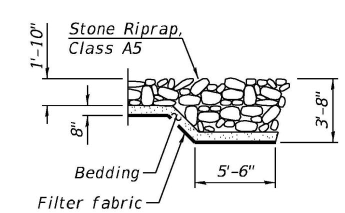
SECTION THRU BARREL

Note:
Remove a minumum of 12 inches below the bottom of the box culvert elevation, and 12 inches below bottom of cutoff and wingwall elevations.



PROFILE GRADE

(Along ℄ Main Street)



SECTION A-A

LEGEND

- Soil boring location
- Existing underground gas main
- Existing underground fiber optic
- Existing underground sanitary sewer
- Existing aerial line
- Existing underground water
- Proposed underground storm sewer
- Removal and Disposal of Unsuitable Material for Structures, replaced with Aggregate Subgrade Improvement

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

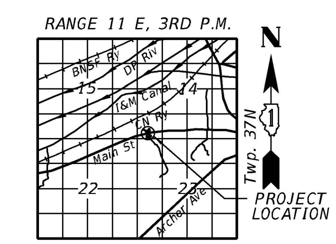
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
MAIN STREET OVER
UNNAMED TRIBUTARY TO I & M CANAL
FAU 3587 - SEC. 2020-142-C & DR
COOK COUNTY
STATION 123+40.39
STRUCTURE NO. 016-1425

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD Sheets\D19144920-sht-prefinal-Culvert10-01.dgn

MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -
		DRAWN - MY	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

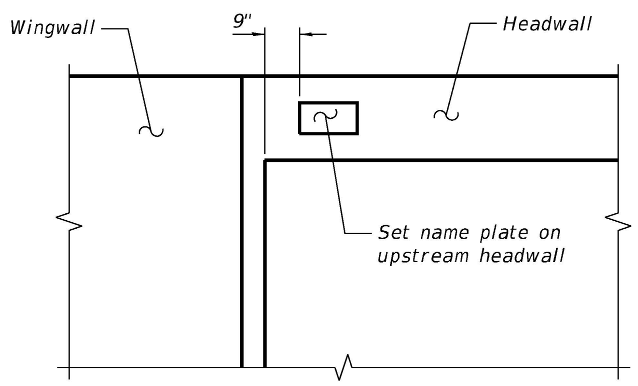
GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-1425
SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	158
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within ⅓ of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. Precast alternate not allowed.

INDEX OF SHEETS



NAME PLATE LOCATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Backfill	Cu. Yd.	123
Stone Riprap, Class A5	Sq. Yd.	64
Filter Fabric	Sq. Yd.	64
Aggregate Subgrade Improvement	Cu. Yd.	49
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	49
Reinforcement Bars, Epoxy Coated	Pound	19,646
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	91.2
Geocomposite Wall Drain	Sq. Yd.	107
Membrane Waterproofing System For Buried Structures	Sq. Yd.	107
Strong Post Guardrail Attached to Culvert	Foot	50

STATION 123+40.39
BUILT BY
STATE OF ILLINOIS
FAU 3587–SEC.2020–142–C&DR
LOADING HL–93
STRUCTURE NO. 016–1425

NAME PLATE
See Std. 515001

MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

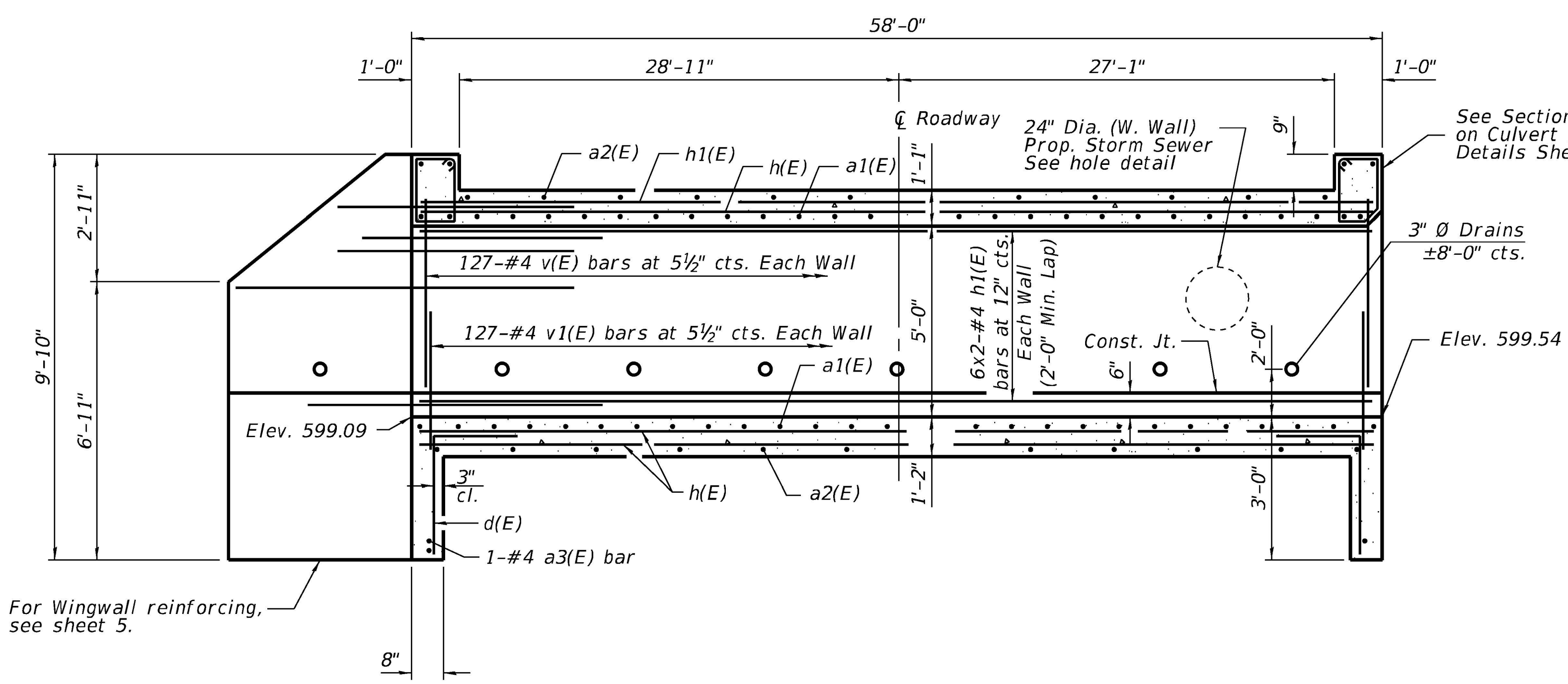
GENERAL NOTES AND BILL OF MATERIALS
STRUCTURE NO. 016–1425

SCALE: | SHEET 2 OF 7 SHEETS | STA. | TO STA.

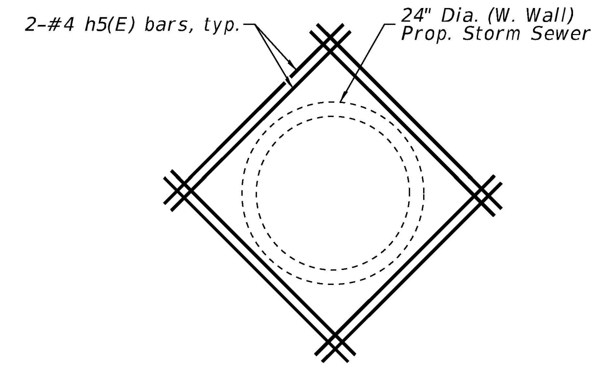
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	159

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT

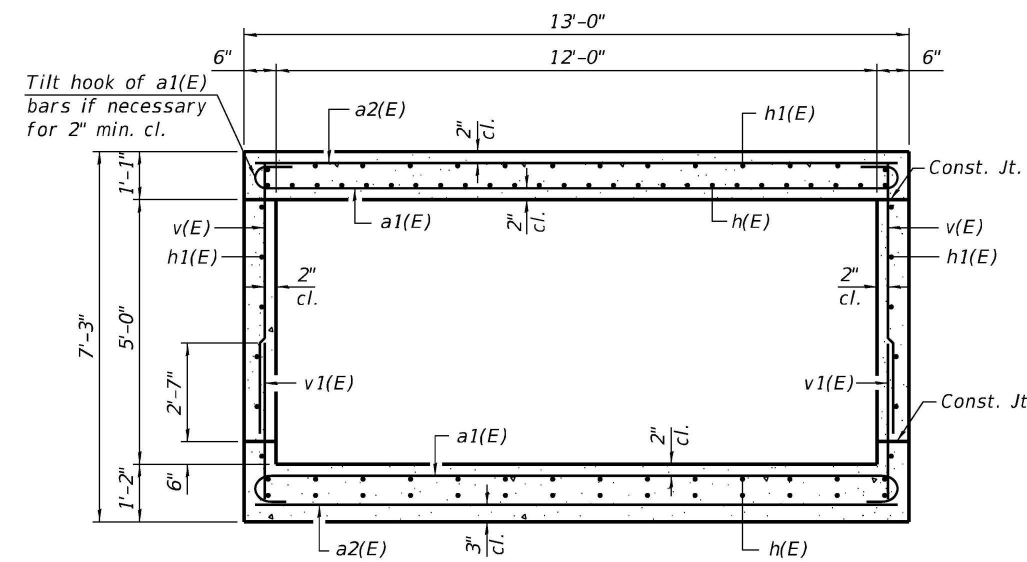


LONGITUDINAL SECTION
(Along ℄ of culvert)

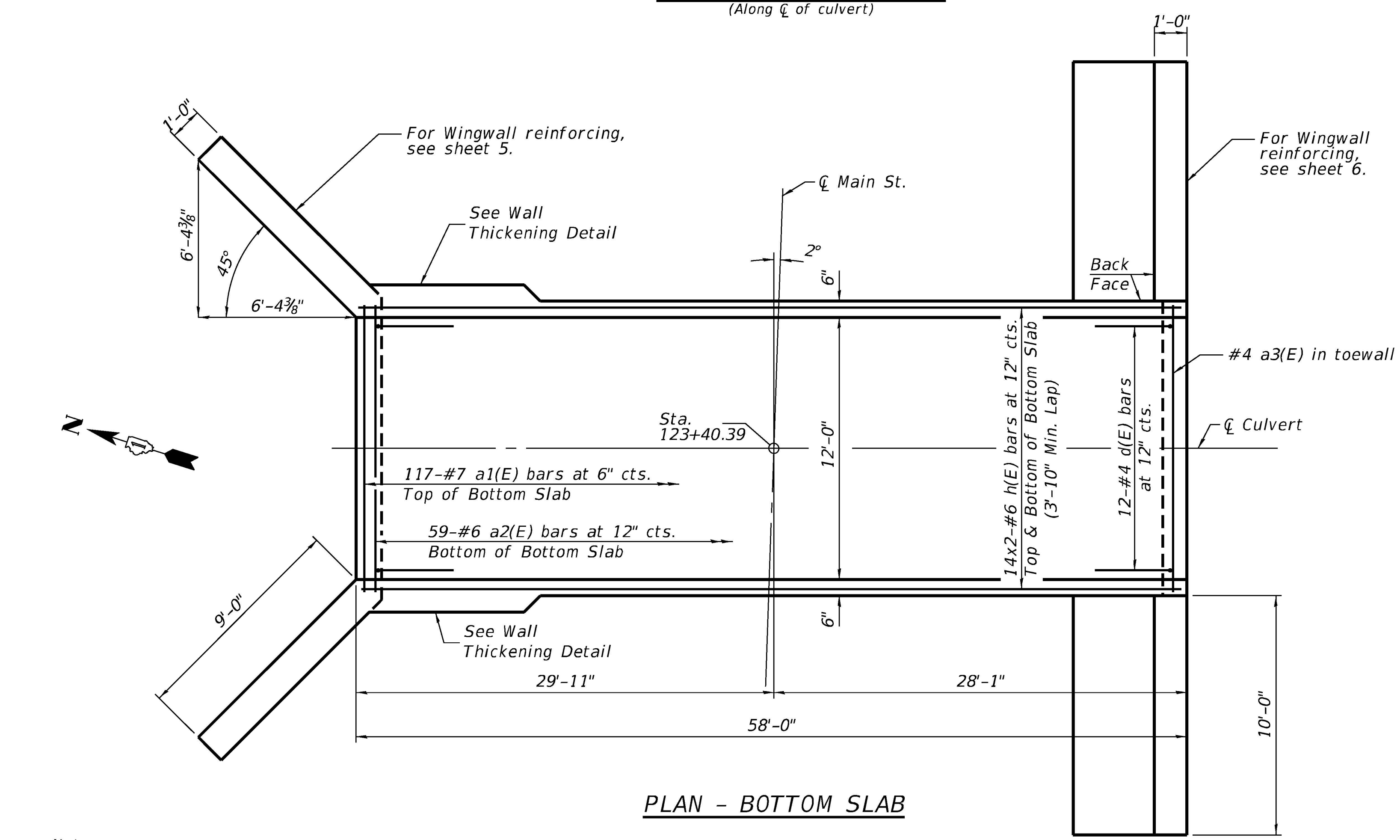


HOLE DETAIL

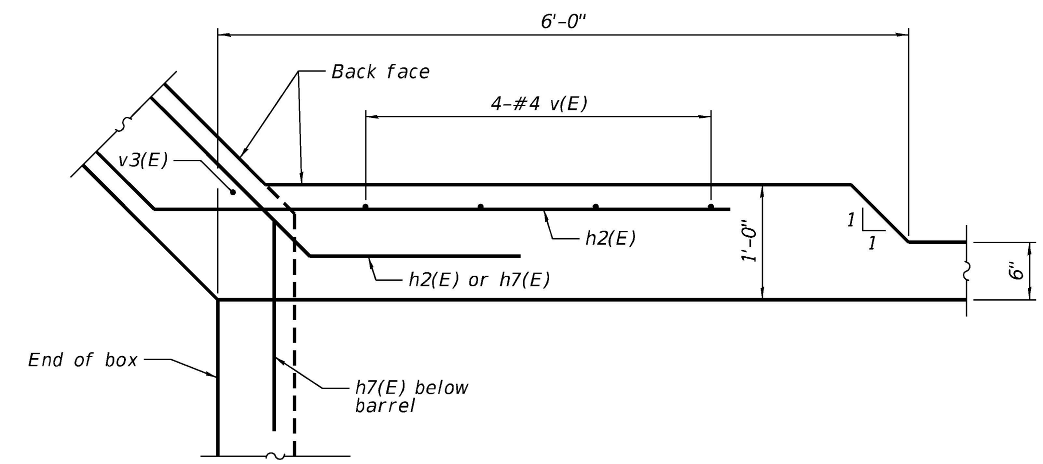
Note: Cut vertical and horizontal wall reinforcing bars to clear hole. Provide 2" clear.



SECTION THRU BARREL



PLAN - BOTTOM SLAB



WALL THICKENING DETAIL

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

TSA-SB-HC-ZS 2-17-2017

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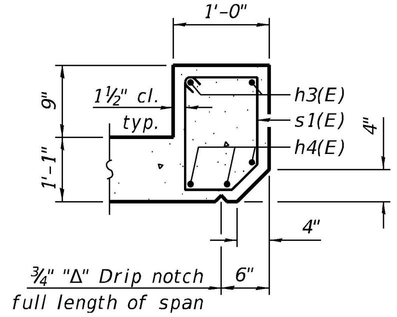
MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -
		DRAWN - MY	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

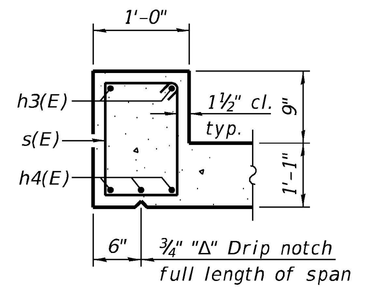
CULVERT PLAN BOTTOM SLAB DETAILS
STRUCTURE NO. 016-1425

SCALE: N.T.S. | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	160
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



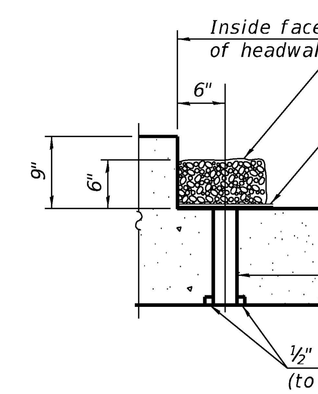
UPSTREAM



DOWNSTREAM

SECTION THRU HEADWALL

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

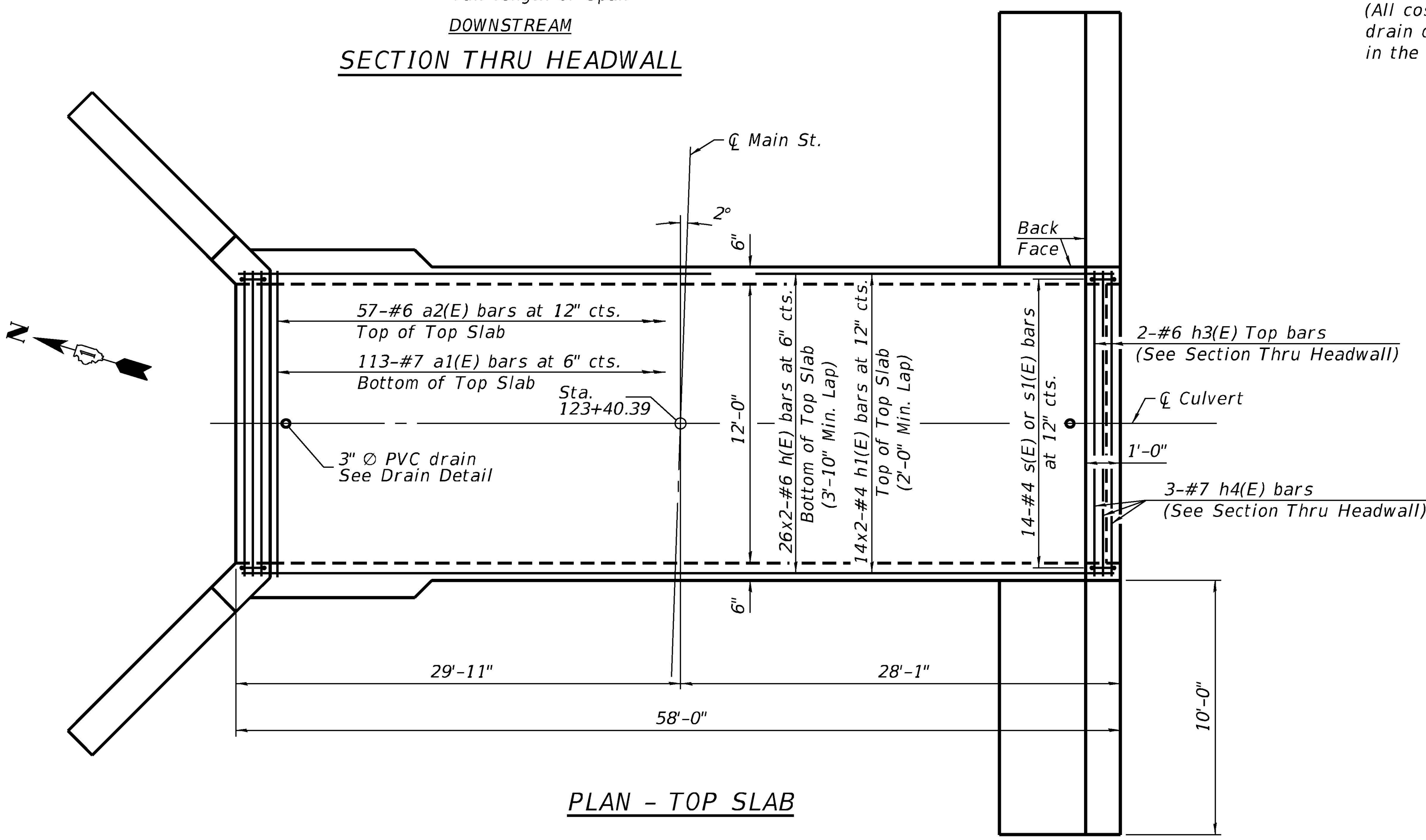
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

MINIMUM BAR LAP

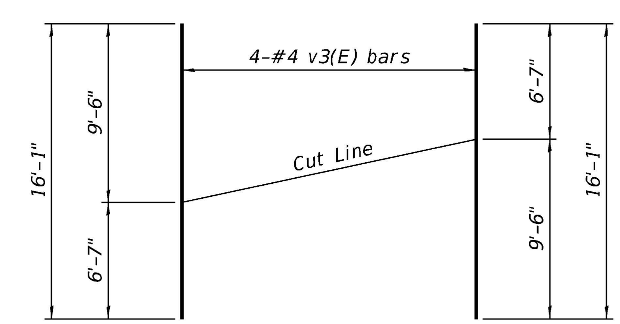
(Slab)
#4 bar = 2'-0"
#6 bar = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	230	#7	14'-4"	
a2(E)	116	#6	12'-8"	
a3(E)	2	#4	12'-8"	
d(E)	24	#4	4'-5"	
h(E)	108	#6	30'-9"	
h1(E)	52	#4	29'-10"	
h2(E)	30	#5	8'-0"	
h3(E)	4	#6	12'-4"	
h4(E)	6	#7	12'-4"	
h5(E)	8	#4	4'-0"	
h6(E)	68	#4	9'-9"	
h7(E)	28	#5	12'-0"	
h8(E)	32	#4	5'-0"	
h9(E)	12	#4	12'-10"	
s(E)	14	#4	5'-5"	
s1(E)	14	#4	5'-3"	
v(E)	262	#4	5'-4"	
v1(E)	254	#4	4'-1"	
v3(E)	4	#4	16'-1"	
v4(E)	96	#4	5'-11"	
v5(E)	96	#4	6'-8"	
w(E)	10	#5	12'-9"	
z(E)	48	#4	5'-8"	
z1(E)	48	#4	3'-0"	
Concrete Box Culverts		Cu. Yd.	91.2	
Reinforcement Bars, Epoxy Coated		Pound	19544	

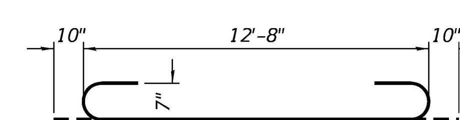


PLAN - TOP SLAB

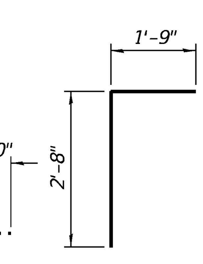


FIELD CUTTING DIAGRAM

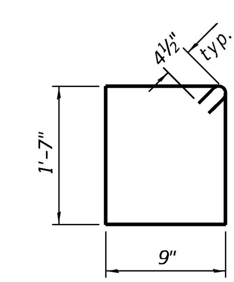
Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face of wingwall.



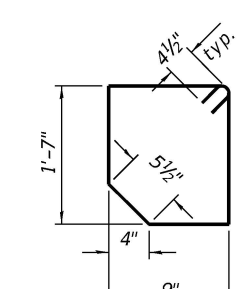
BAR a1(E)



BAR d(E)



BAR s(E)



BAR s1(E)

MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

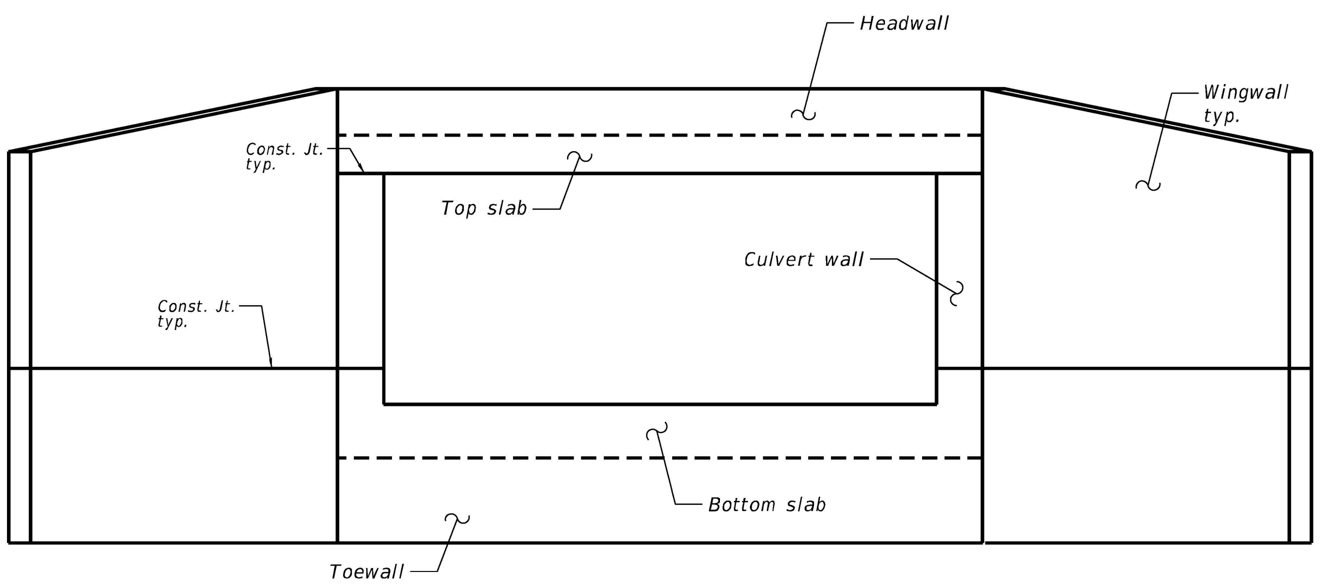
CULVERT PLAN TOP SLAB DETAILS
STRUCTURE NO. 016-1425

SCALE: N.T.S. | SHEET 4 OF 7 SHEETS | STA. | TO STA.

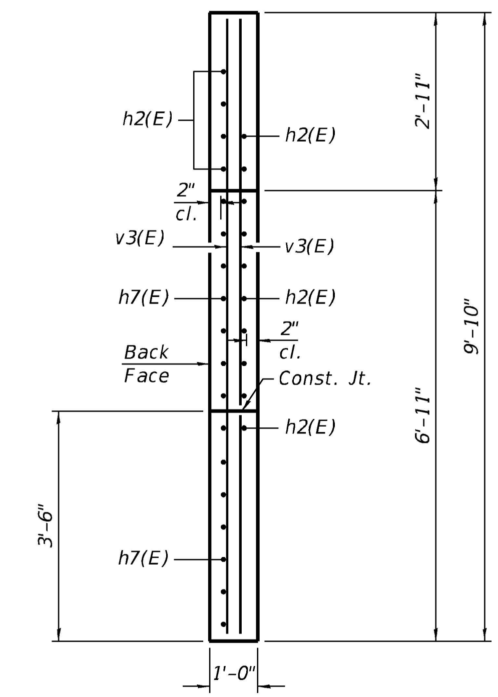
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	161

CONTRACT NO. 62L30

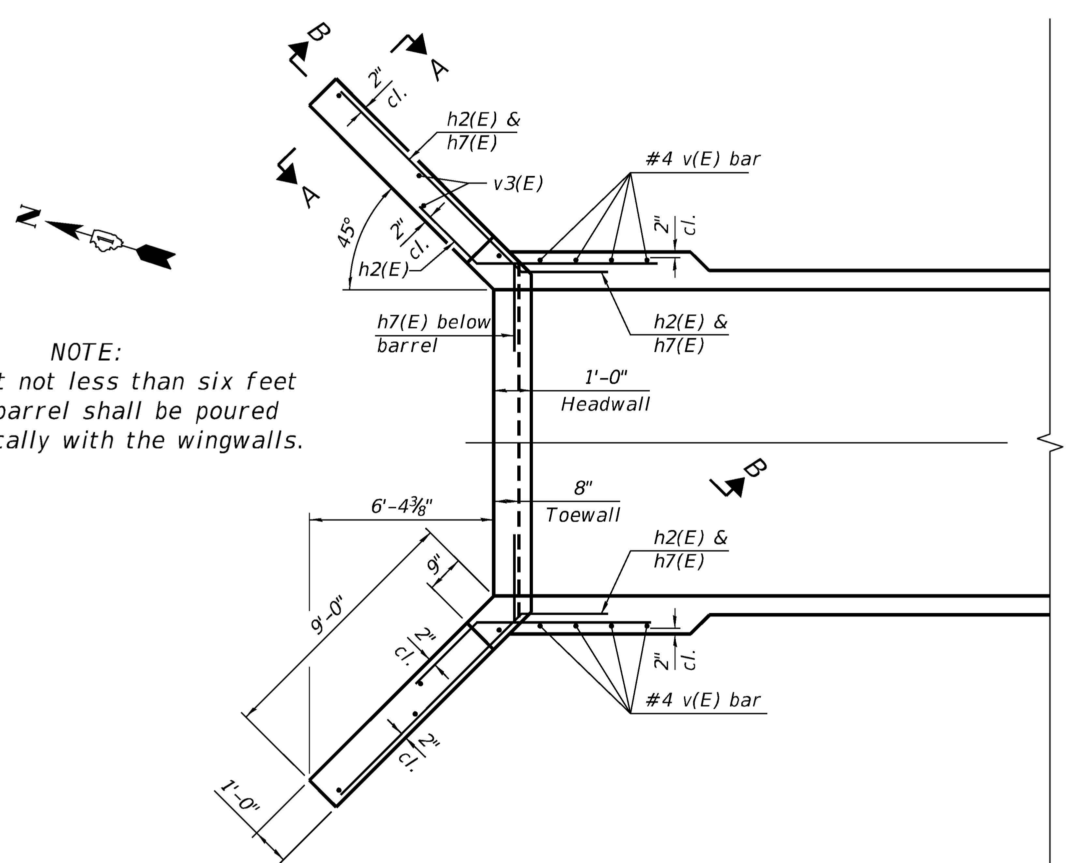
ILLINOIS | FED. AID PROJECT



WINGWALL ELEVATION

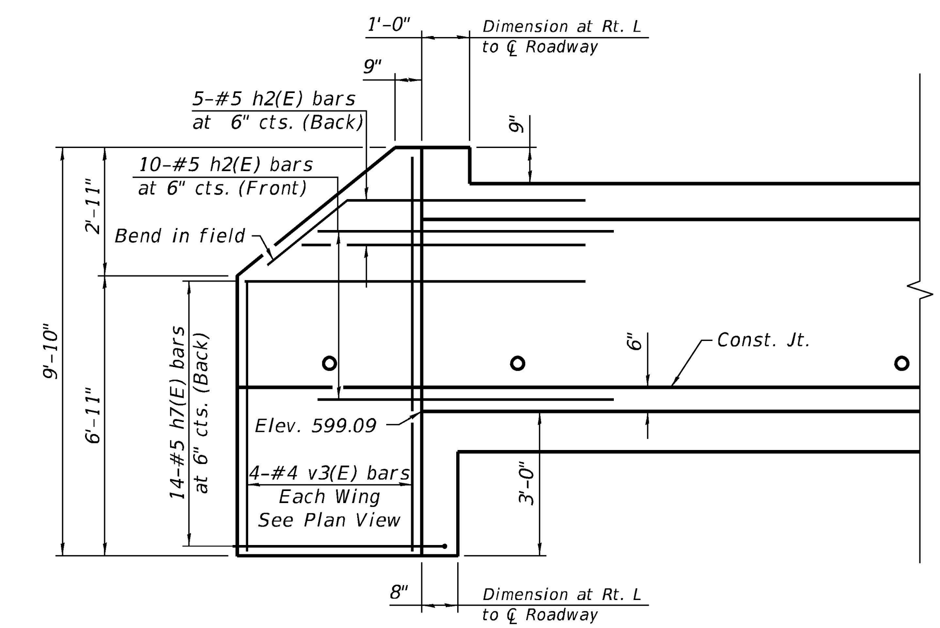


SECTION A-A

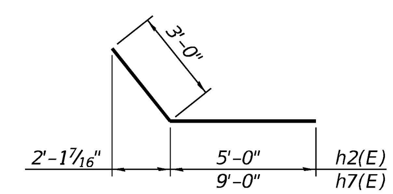


NOTE:
L/2 ft. but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

PLAN
Field bend h7(E) below barrel as necessary to maintain clear cover in toewall



SECTION B-B



BARS h2(E) & h7(E)

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

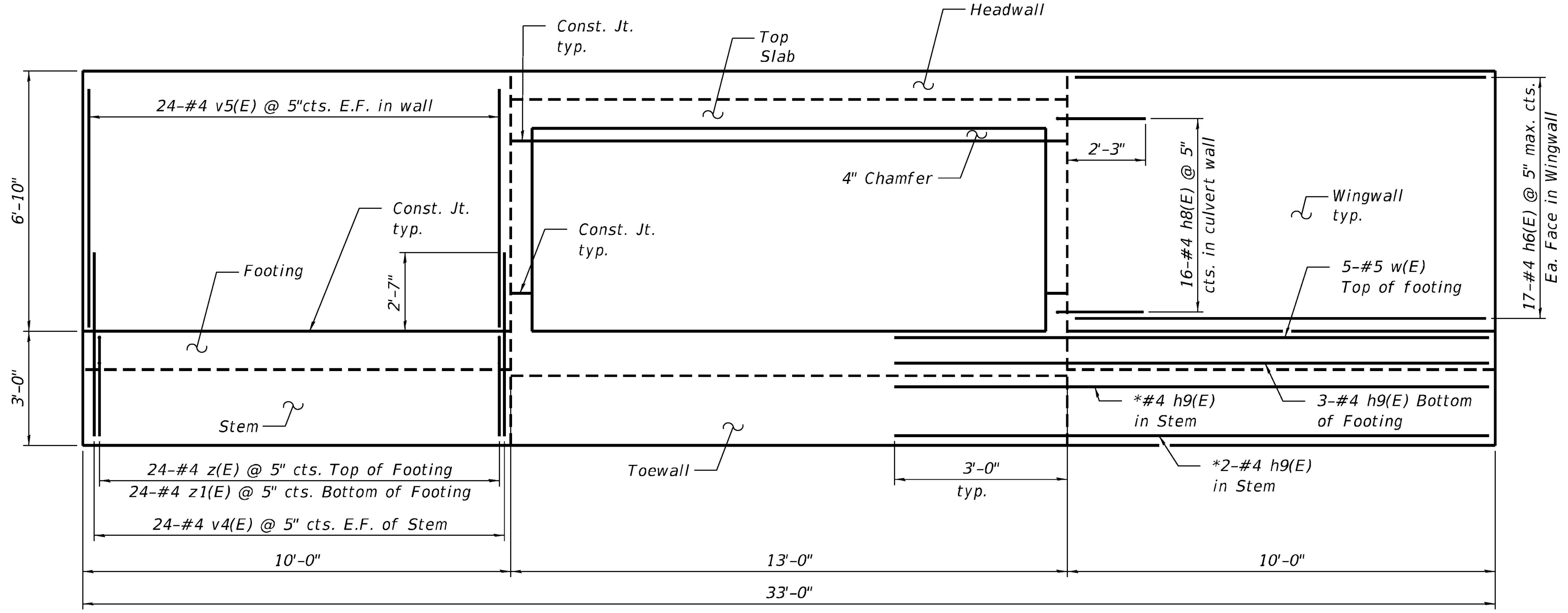
USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHEAST AND NORTHWEST WINGWALL PLAN AND ELEVATION
STRUCTURE NO. 016-1425

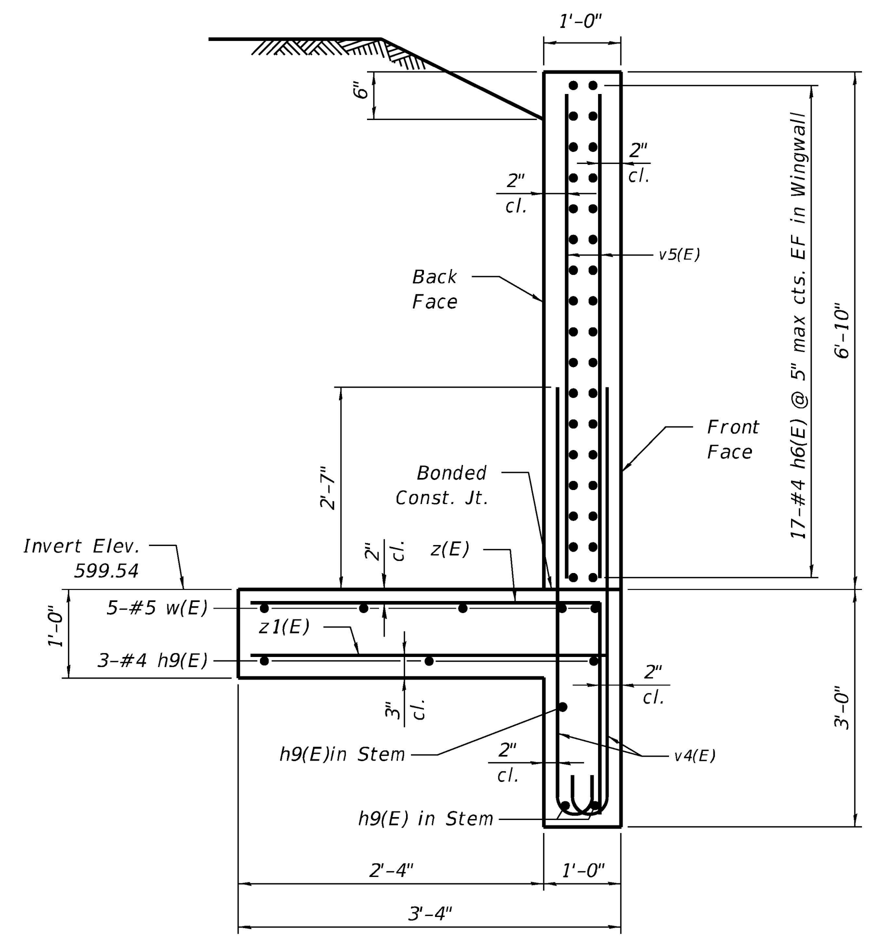
SCALE: N.T.S. | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	162
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	

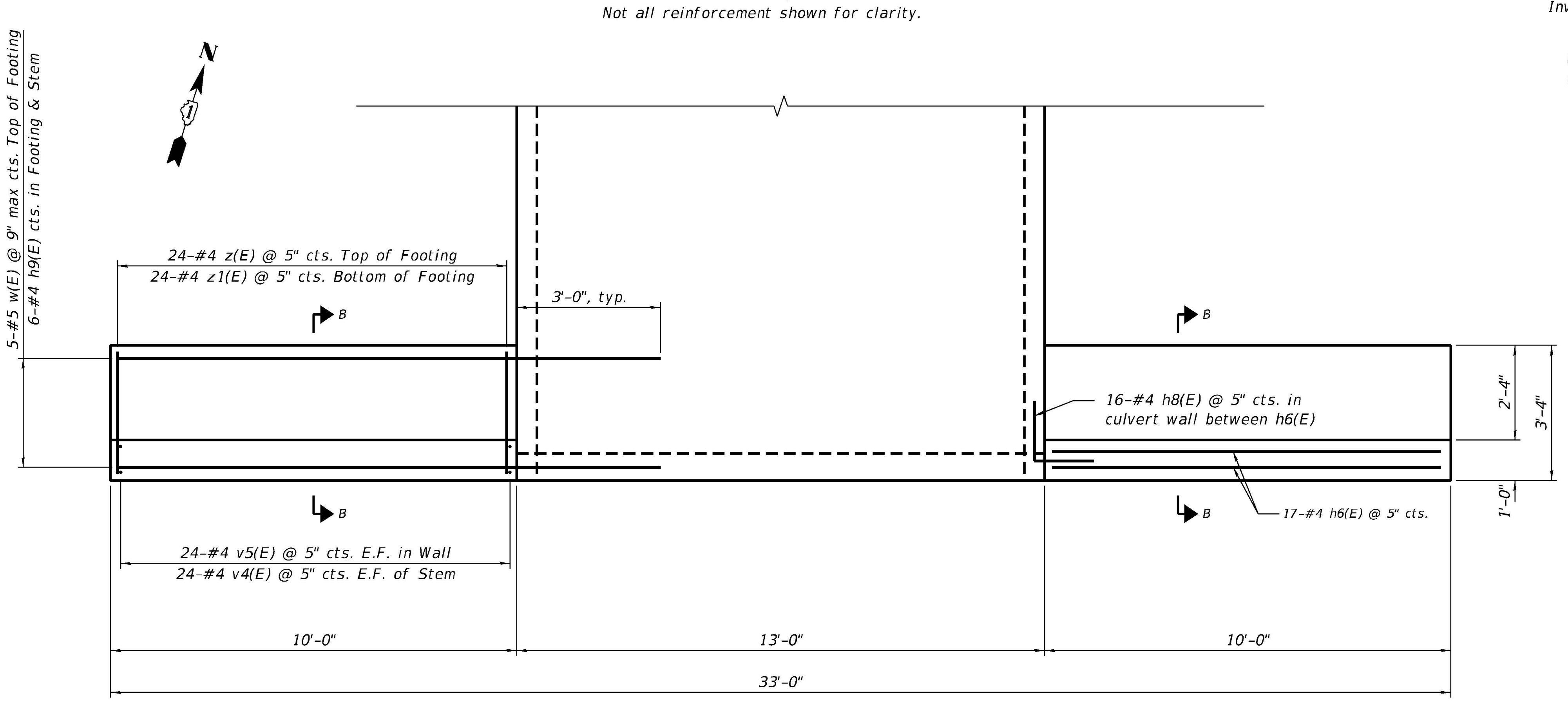


SOUTH END ELEVATION

*Field bend h9(E) in Stem as necessary to maintain clear cover in Toewall
Not all reinforcement shown for clarity.

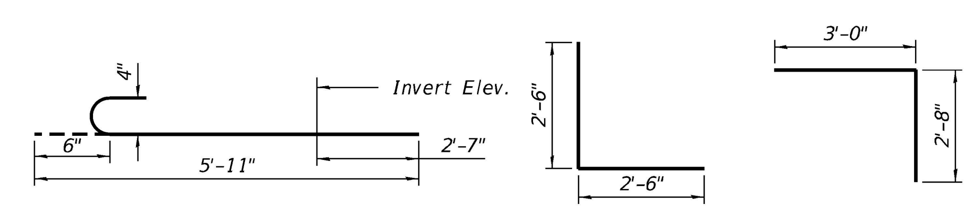


SECTION B-B



SOUTH END PLAN

Not all reinforcement shown for clarity.



BAR v4(E) BAR h8(E) BAR z(E)

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user500	DESIGNED - RAO	REVISED -	
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PLOT DATE = 2/4/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHEAST AND SOUTHWEST WINGWALL PLAN AND ELEVATION
STRUCTURE NO. 016-1425

SCALE: N.T.S. SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	163
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

BORING LOG CUL-10-01

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: **Mott MacDonald**
Project: **Main Street Lemont from Wheeler RD to IL 83**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 596.97 ft
North: 1829021.81 ft
East: 1088830.25 ft
Station: 123+36.09
Offset: 28.24' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Brown and gray GRAVELLY SANDY LOAM; dry to saturated --L_L(%)=46, P_L(%)=26-- --%Gravel=68.2-- --%Sand=18.0-- --%Silt=10.9-- --%Clay=2.9-- --A-2-7 (0)-- --possible bedrock or cobble--	1	PUSH	NP	7
		2	PUSH	NP	10
593.0	Boring terminated at 4.00 ft				

Depth (ft): 5, 10, 15, 20

GENERAL NOTES

Begin Drilling: **10-11-2021** Complete Drilling: **10-11-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **1" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **3.25 ft**
At Completion of Drilling ▼ **3.75 ft**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/20/21

BORING LOG CUL-10-02

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: **Mott MacDonald**
Project: **Main Street Lemont from Wheeler RD to IL 83**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 608.29 ft
North: 1829011.00 ft
East: 1088858.71 ft
Station: 123+60.54
Offset: 10.12' LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
607.7	7-inch thick ASPHALT --PAVEMENT--				
607.0	9-inch thick CONCRETE --PAVEMENT--				
	Soft to medium stiff, brown SILTY CLAY LOAM, little gravel; damp --RDR 2--	1	2, 2, 2	0.25 P	16
		2	2, 2, 7	0.75 P	24
602.8	Medium dense, brown GRAVELLY LOAM; damp --RDR 2-3--	3	5, 7, 13	NP	11
		4	21, 9, 6	NP	5
	--Possible Cobbles and Boulders--	5	4, 9, 5	NP	12
595.3	Very dense, gray weathered DOLOSTONE; dry to wet --Weathered BEDROCK-- -RDR 3-4--	6	38, 50/6"	NP	9
	--Top of Possible Sound Bedrock--	7	50/2"	NP	
591.3	Boring terminated at 17.00 ft				

Depth (ft): 5, 10, 15, 20

GENERAL NOTES

Begin Drilling: **10-13-2021** Complete Drilling: **10-13-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig: **20CME55T[81%]**
Driller: **R&A** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **14.00 ft**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/20/21

BORING LOG CUL-10-03

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: **Mott MacDonald**
Project: **Main Street Lemont from Wheeler RD to IL 83**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 608.04 ft
North: 1828973.35 ft
East: 1088831.83 ft
Station: 123+24.46
Offset: 18.83' RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
607.4	8-inch thick, black SILTY CLAY LOAM --TOPSOIL--				
	Soft, brown to dark brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 1--	1	1, 2, 2	0.25 P	11
		2	1, 2, 3	0.41 B	28
602.5	Medium dense, brown GRAVELLY SILTY LOAM to SILTY LOAM; damp --RDR 3-- --%Gravel=15.0-- --%Sand=35.2-- --%Silt=46.2-- --%Clay=3.6-- --A-4 (0)--	3	5, 5, 8	NP	11
		4	7, 6, 5	NP	16
597.5	Medium dense, brown SILTY LOAM; wet --RDR 3--	5	3, 6, 14	NP	20
595.7	Very dense, brown Weathered DOLOSTONE fragments; dry --Weathered BEDROCK-- --RDR 5--	6	10, 50/2"	NP	17
		7	50/2"		
	--AUGER REFUSAL--	8	50/2"		
589.0	Strong, light greyish gray, poor rock mass quality, dry		C		
	DOLOSTONE; moderately weathered rock and slightly weathered joints, closely spaced horizontal and oblique joints, with up to greater than 0.2-inch joint opening, hard joint wall, slicken to slightly rough joint wall surface, hard infill strength, and up to greater than 0.2-inch infill thickness. -- Run 1: 19.0 to 29.0 feet-- --Recovery = 98%-- --RQD = 49%--	1	ORE		
579.0	Boring terminated at 29.00 ft				

Depth (ft): 5, 10, 15, 20, 25, 30, 35, 40

GENERAL NOTES

Begin Drilling: **10-05-2021** Complete Drilling: **10-05-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig: **20CME55T[81%]**
Driller: **R&H** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **10.50 ft**
At Completion of Drilling ▼ **12.00 ft**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/20/21

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 200.0000 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 016–1425

SCALE: N.T.S. | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	164

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT

Benchmark: C.P. #25 - Rebar with HLR cap. Sta. 155+09, o/s 21' LT, Elev. 621.625.

Existing Structure:
S.N. 016-1403 appears to have been constructed circa 1900. The original structure is a single cell 16.3ft x 5.4ft arch culvert. The structure was extended at both ends using single cell CIP concrete box culverts. Plans for the original construction and widening are not available. Structure to be removed and replaced with a double-barrel box culvert. Road to be closed during construction.

No salvage

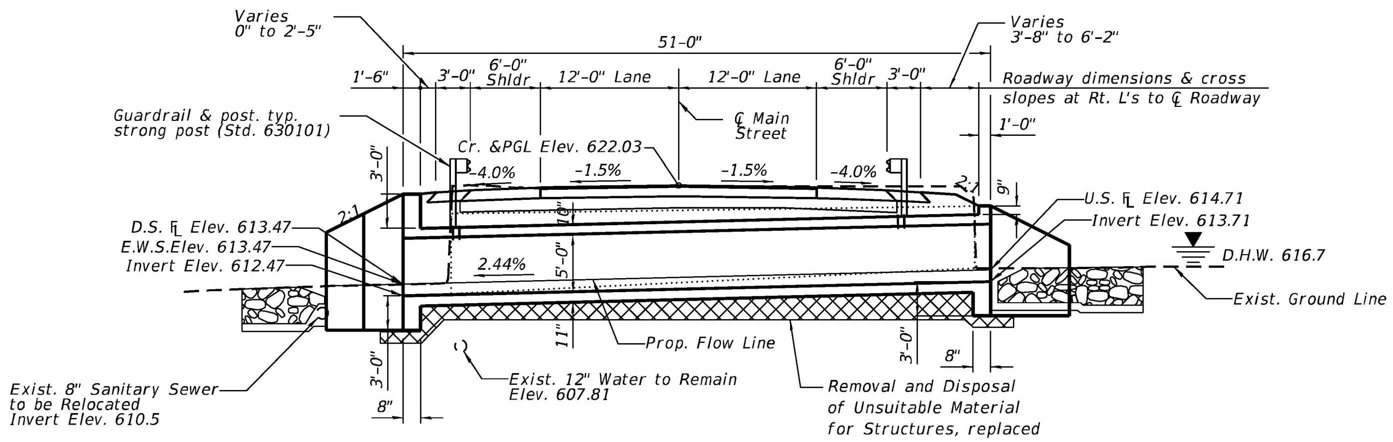
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The removal and disposal of unsuitable material for structures is not needed under the horizontal cantilever wingwalls at the north end of the structure.

WATERWAY INFORMATION

Drainage Area = 0.13 sq. mi. Low Grade Elev. = 619.6 @ Sta. 151+00									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	56	6	10	615.3	0.5	0.5	615.8	615.8
Design	50	127	10	14	615.6	1.1	1.1	616.7	616.7
Base	100	164	11	16	615.7	1.4	1.4	617.1	617.1

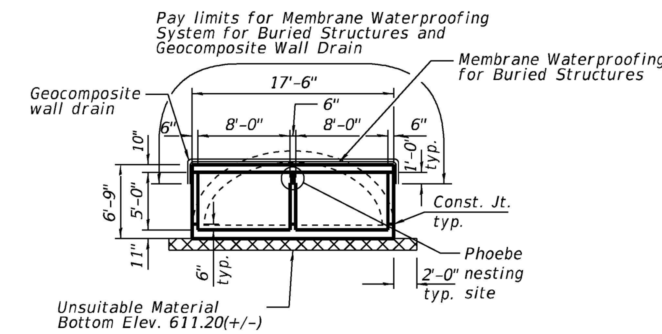
10-Year Velocity through Existing Structure = 5 ft/s
10-Year Velocity through Proposed Structure = 5 ft/s



Note:
Evidence of rock was not encountered in the drilled borings for outlet 15. Please refer to the SGR titled, "Structural Geotechnical Report Main Street over I&M Creek Unnamed Tributary Culvert 15 at Station 155+31.67", dated December 27, 2021 prepared by Wang Engineering for additional information.

LONGITUDINAL SECTION

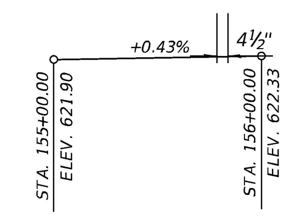
(Elevations and culvert dimensions along ℄ of culvert)



SECTION THRU BARREL

Note:
Remove a minimum of 12 inches below the bottom of the box culvert elevation, and 12 inches below bottom of cutoff and wingwall elevations.

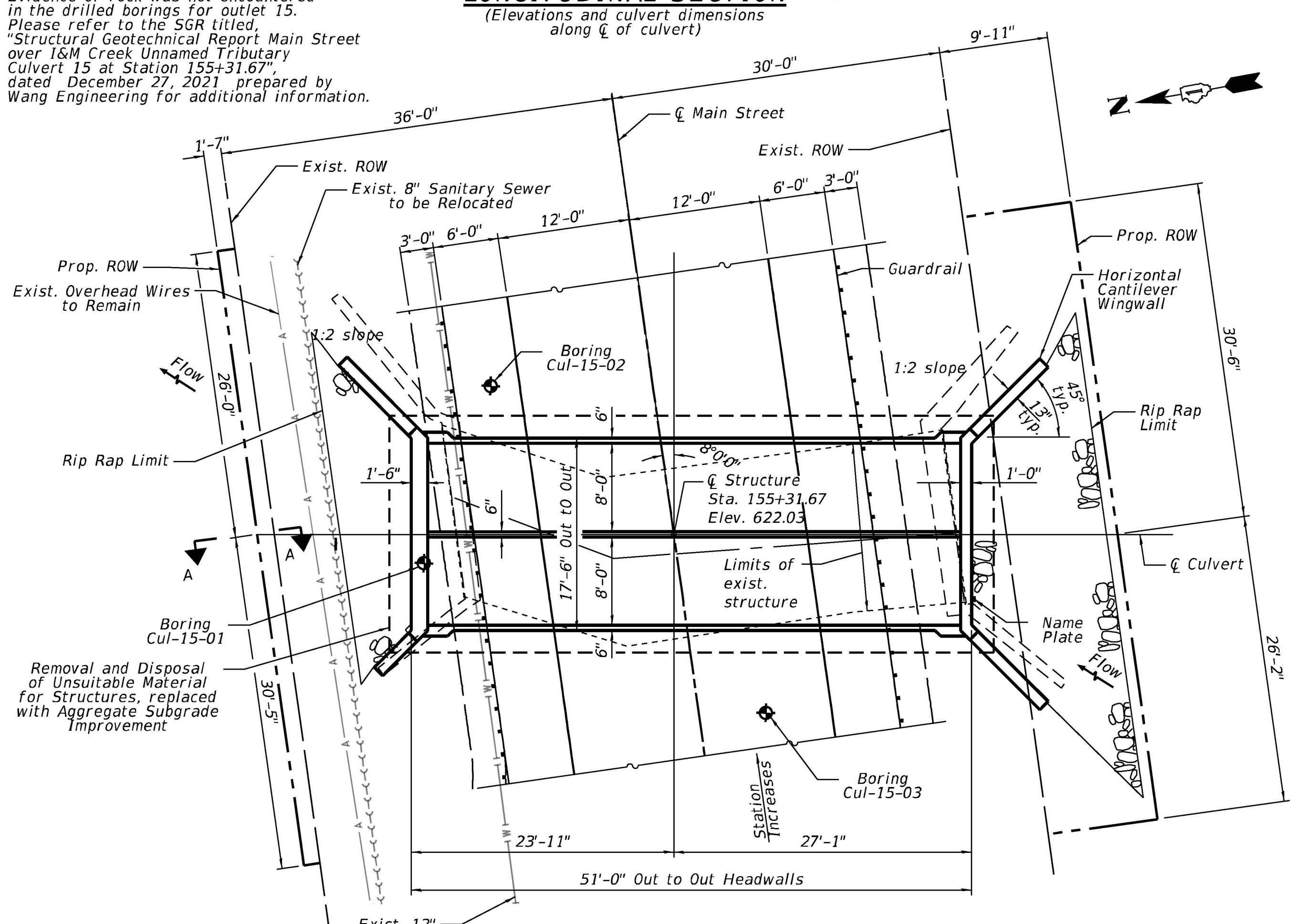
Mott-Macdonald Richard Obisanya
Richard Obisanya, S.E.
DATE: 2/12/2025
081-008566
SIGNATURES AND SEAL APPLY TO SHEETS 1 THRU 8
EXP. DATE: 11/30/2026
LICENSED STRUCTURAL ENGINEER Richard Obisanya 081-008566 STATE OF ILLINOIS



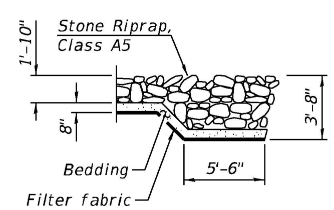
PROFILE GRADE

(Along ℄ Main Street)

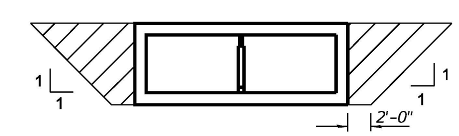
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures



PLAN



SECTION A-A



LIMITS FOR POROUS GRANULAR EMBANKMENT

(Hatched area)

LEGEND

- Soil boring location
- Existing underground gas main
- Existing underground fiber optic
- Existing underground sanitary sewer
- Existing aerial line
- Existing underground water
- Remove & replace unsuitable material

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

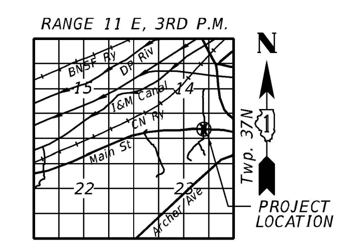
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)



LOCATION SKETCH

GENERAL PLAN & ELEVATION MAIN STREET OVER UNNAMED TRIBUTARY TO I & M Canal FAU 3587 - SEC. 2020-142-C & DR COOK COUNTY STATION 155+31.67 STRUCTURE NO. 016-1427

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -
	DRAWN - MY	REVISED -
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

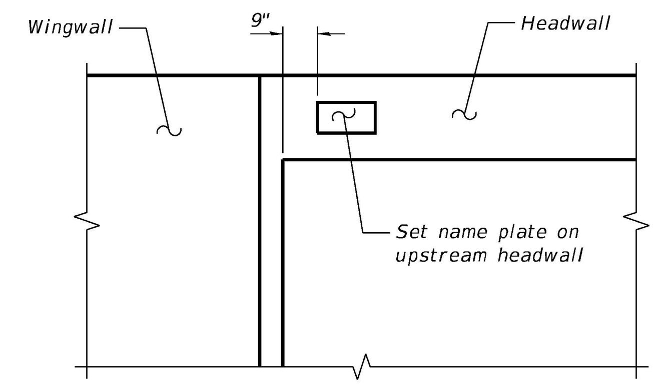
GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-1427
SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	165
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within ⅓ of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. Precast alternate not allowed

INDEX OF SHEETS



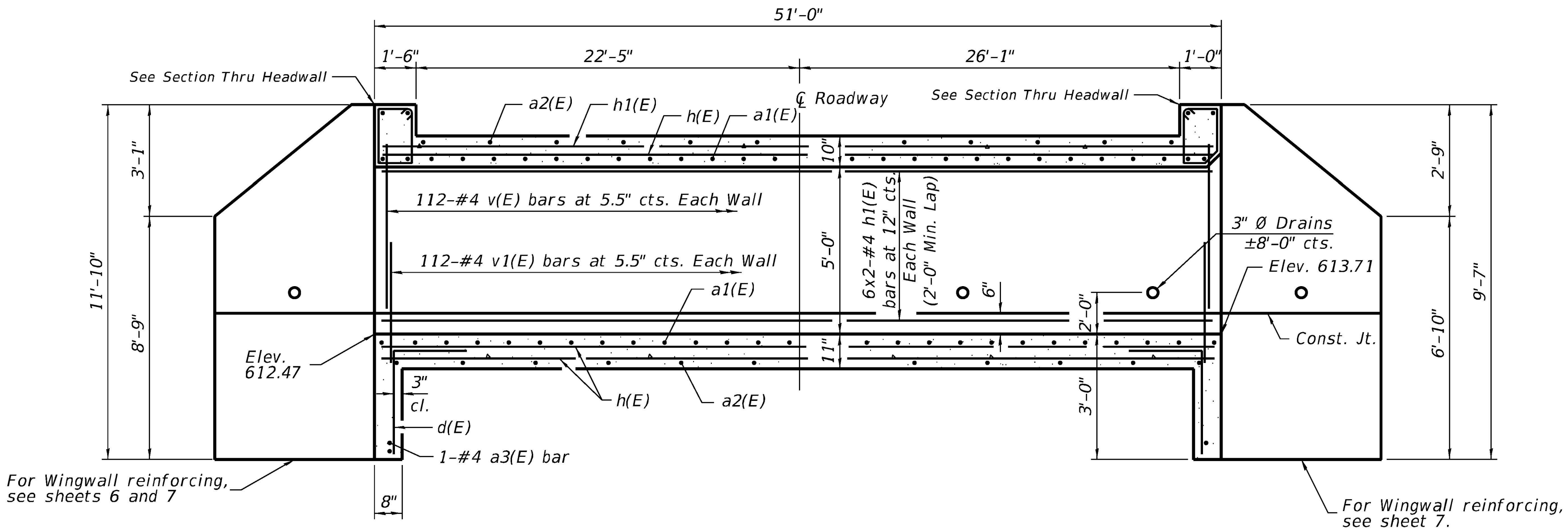
NAME PLATE LOCATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Backfill	Cu. Yd.	125
Stone Riprap, Class A5	Sq. Yd.	59
Filter Fabric	Sq. Yd.	59
Aggregate Subgrade Improvement	Cu. Yd.	44
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	44
Reinforcement Bars, Epoxy Coated	Pounds	21,051
Name Plates	Each	1
Strong Post Guardrail Attached to Culvert	Foot	56
Concrete Box Culverts	Cu. Yd.	91.9
Geocomposite Wall Drain	Sq. Yd.	114
Membrane Waterproofing System For Buried Structures	Sq. Yd.	114

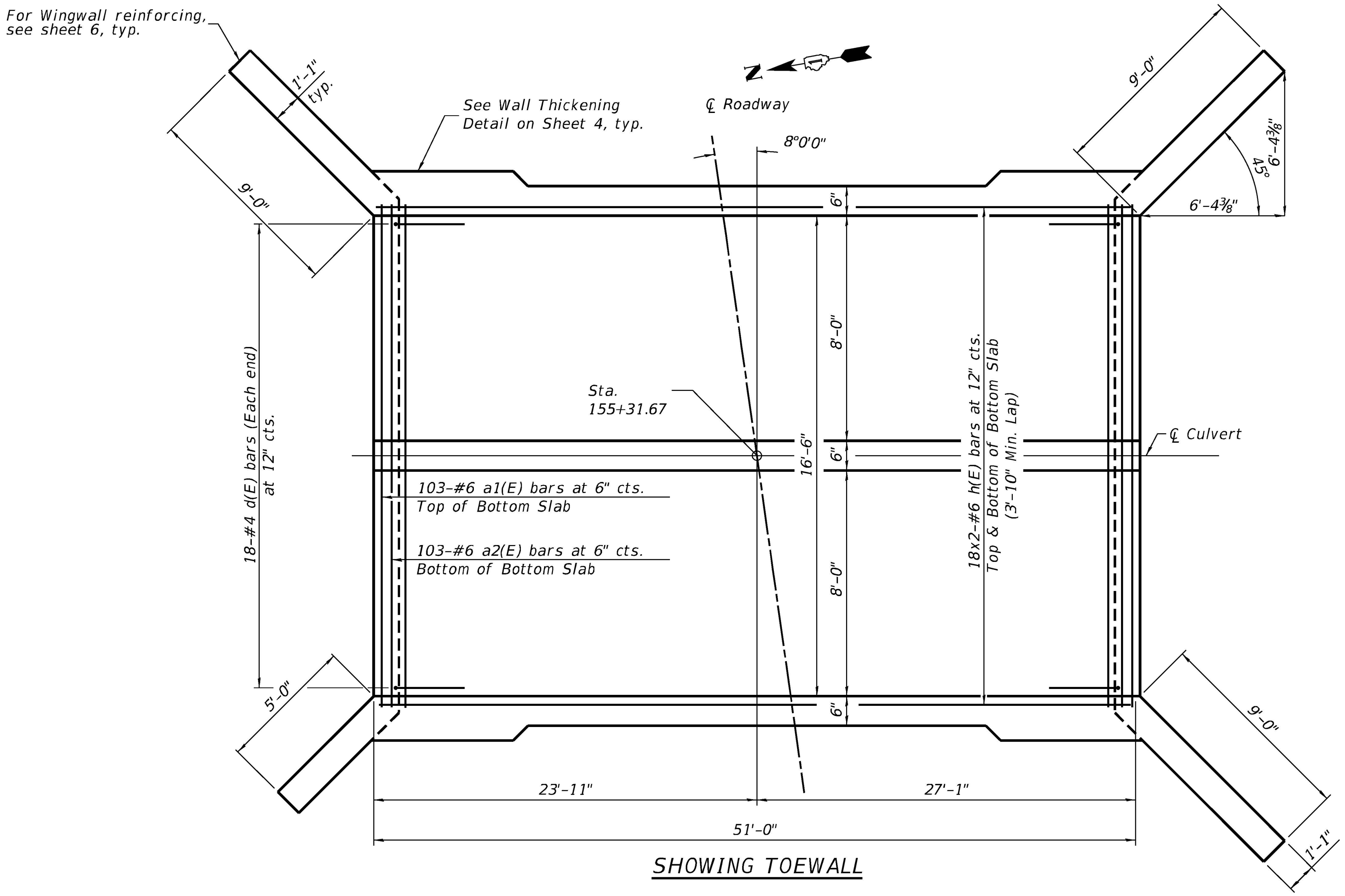
STATION 155+31.67
BUILT BY
STATE OF ILLINOIS
FAU 3587-SEC.2020-142-C&DR
LOADING HL-93
STRUCTURE NO. 016-1427

NAME PLATE
See Std. 515001



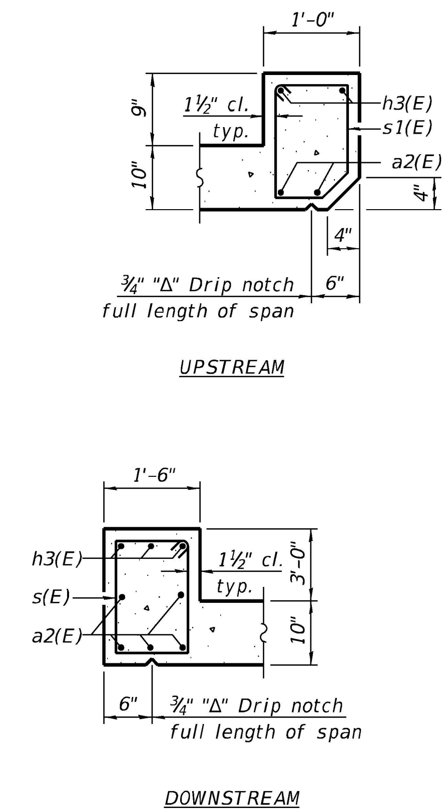
LONGITUDINAL SECTION

(Along ℄ of culvert)



SHOWING TOEWALL

PLAN - BOTTOM SLAB



SECTION THRU HEADWALL

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

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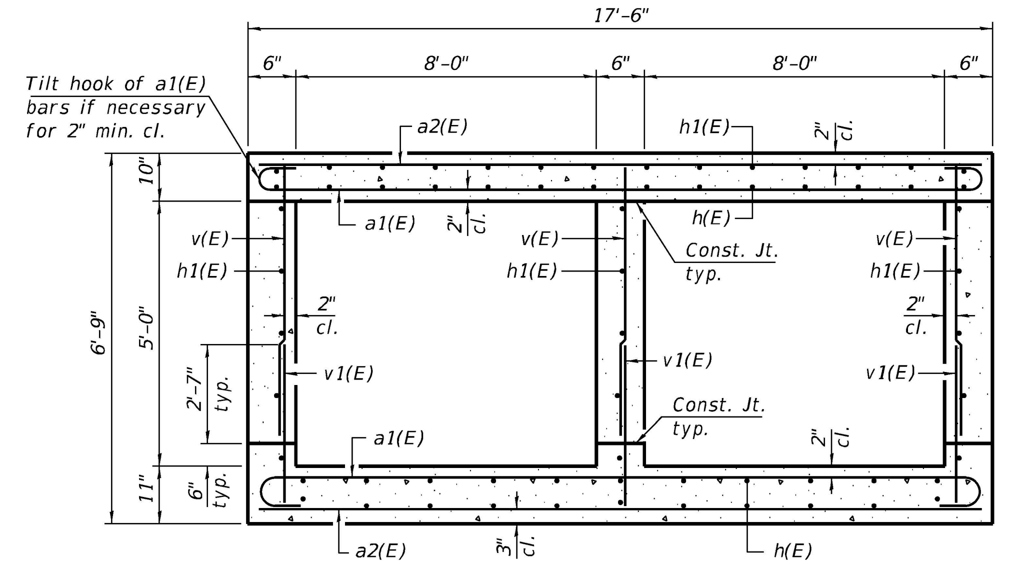
MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - KBM	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

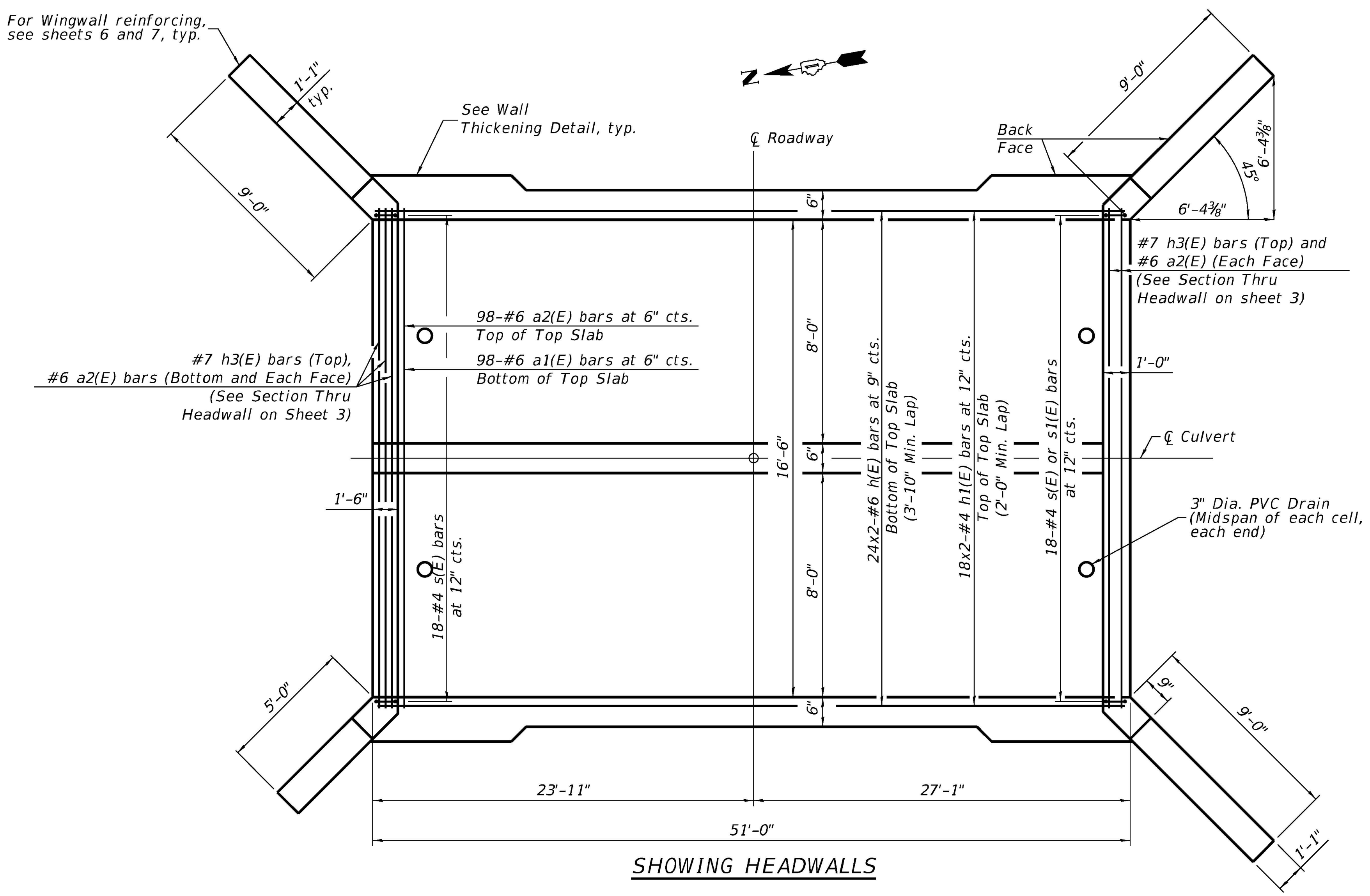
CULVERT PLAN BOTTOM SLAB DETAILS
STRUCTURE NO. 016-1427

SCALE: | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	167
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		

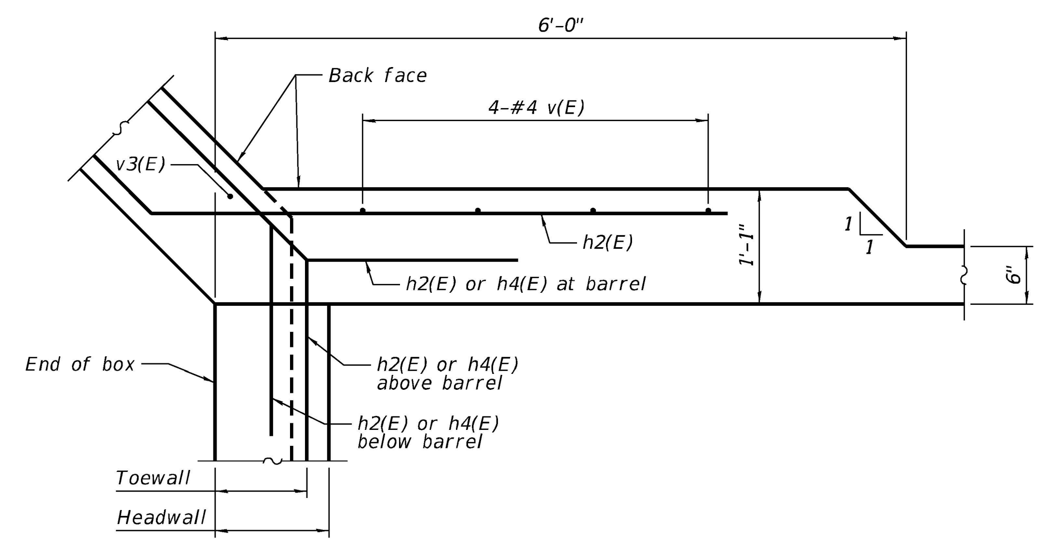


SECTION THRU BARREL



SHOWING HEADWALLS

PLAN



WALL THICKENING DETAIL

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.

MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -
		DRAWN - KBM	REVISED -
	PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN TOP SLAB DETAILS
STRUCTURE NO. 016-1427

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	168
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

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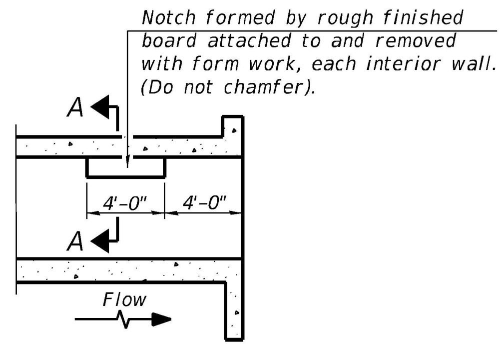
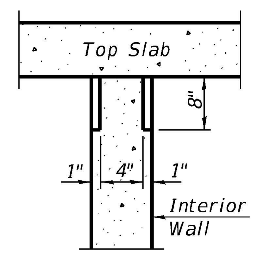
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	201	#6	18'-6"	
a2(E)	208	#6	17'-2"	
a3(E)	2	#4	17'-2"	
d(E)	36	#4	4'-5"	
h(E)	120	#6	27'-4"	
h1(E)	72	#4	26'-5"	
h2(E)	75	#5	8'-0"	
h3(E)	5	#7	17'-2"	
h4(E)	49	#5	12'-0"	
s(E)	18	#4	10'-5"	
s1(E)	18	#4	4'-9"	
v(E)	352	#4	5'-2"	
v1(E)	336	#4	3'-10"	
v3(E)	4	#4	15'-11"	
** v4(E)	8	#4	11'-7"	
Concrete Box Culverts			Cu. Yd.	91.9
Reinforcement Bars, Epoxy Coated			Pound	21051

** - Field cut to fit, See Plan View



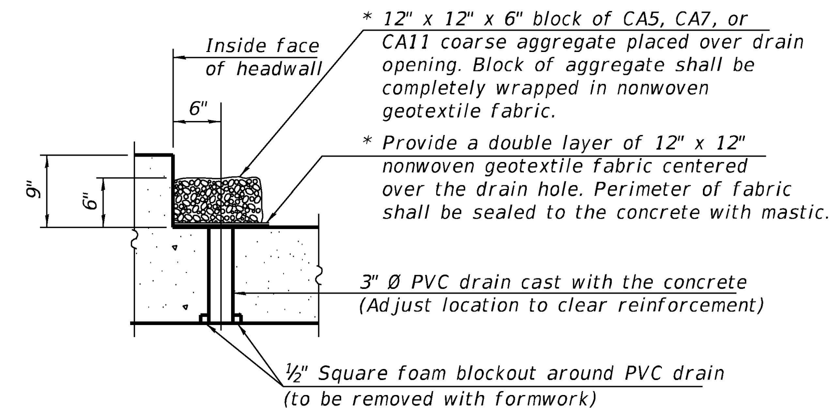
LONGITUDINAL SECTION



SECTION A-A

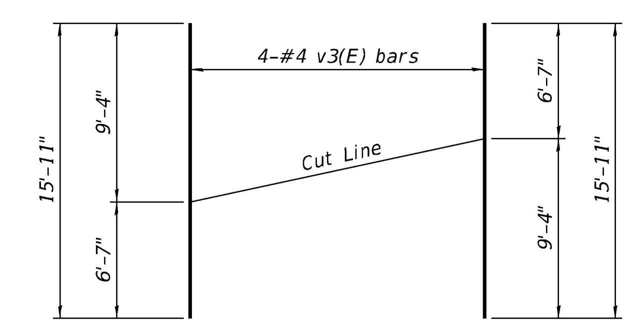
PHOEBE NESTING SITE DETAILS

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



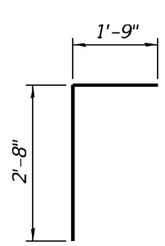
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

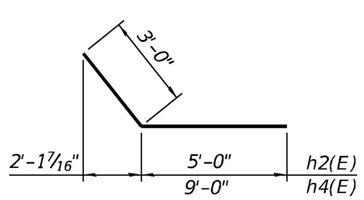


FIELD CUTTING DIAGRAM

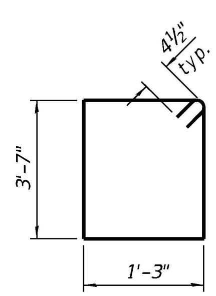
Order v3(E) bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.



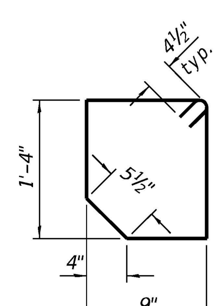
BAR d(E)



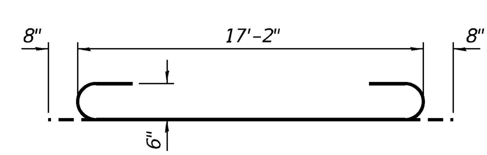
BARS h2(E) & h4(E)



BAR s(E)



BAR s1(E)



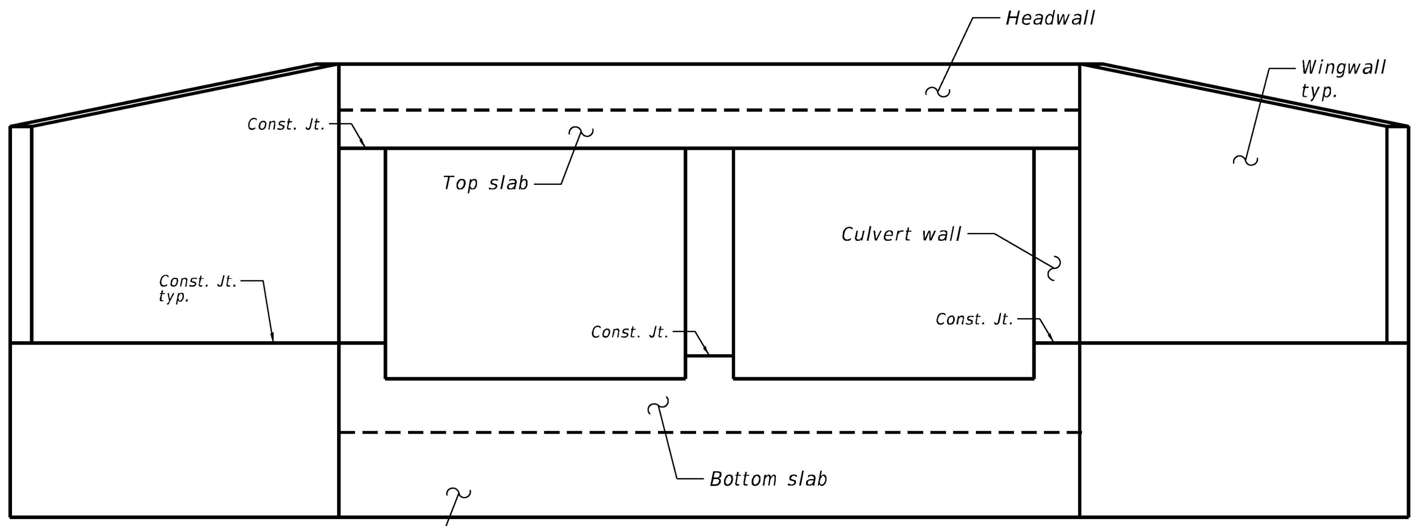
BAR a1(E)

MINIMUM BAR LAP

(Slab)

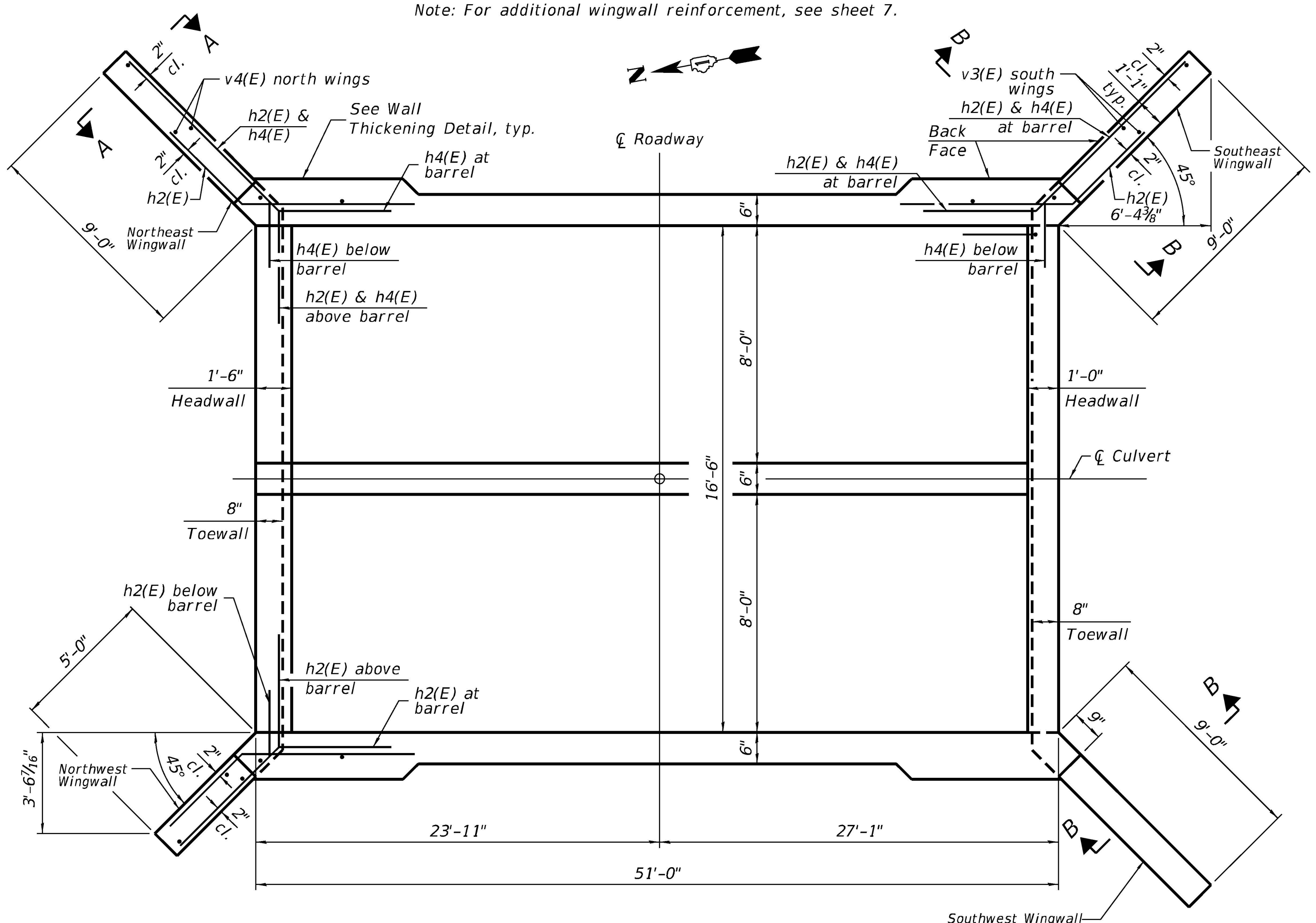
#4 bar = 2'-0"

#6 bar = 3'-10"

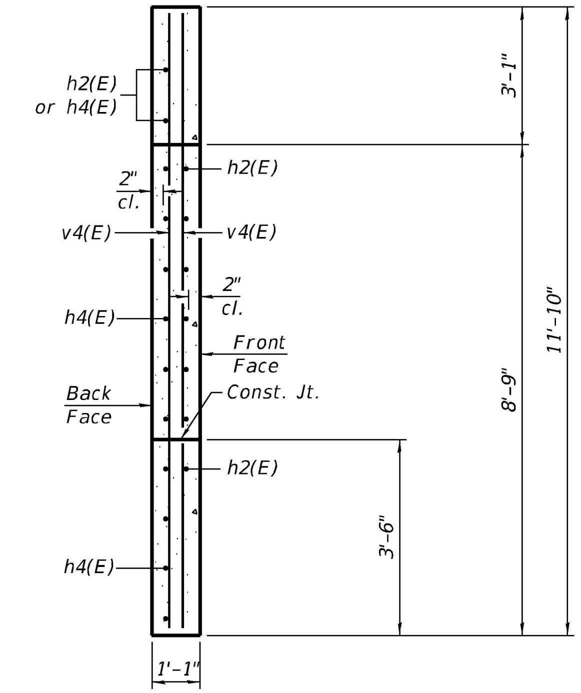


WINGWALL ELEVATION

Note: For additional wingwall reinforcement, see sheet 7.

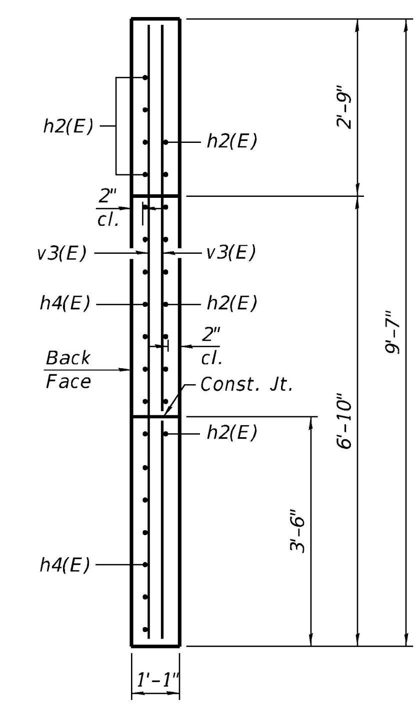


PLAN



SECTION A-A

Note: Reinforcement shown for Northeast wingwall. For Northwest wingwall details, see sheet 7.



SECTION B-B

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

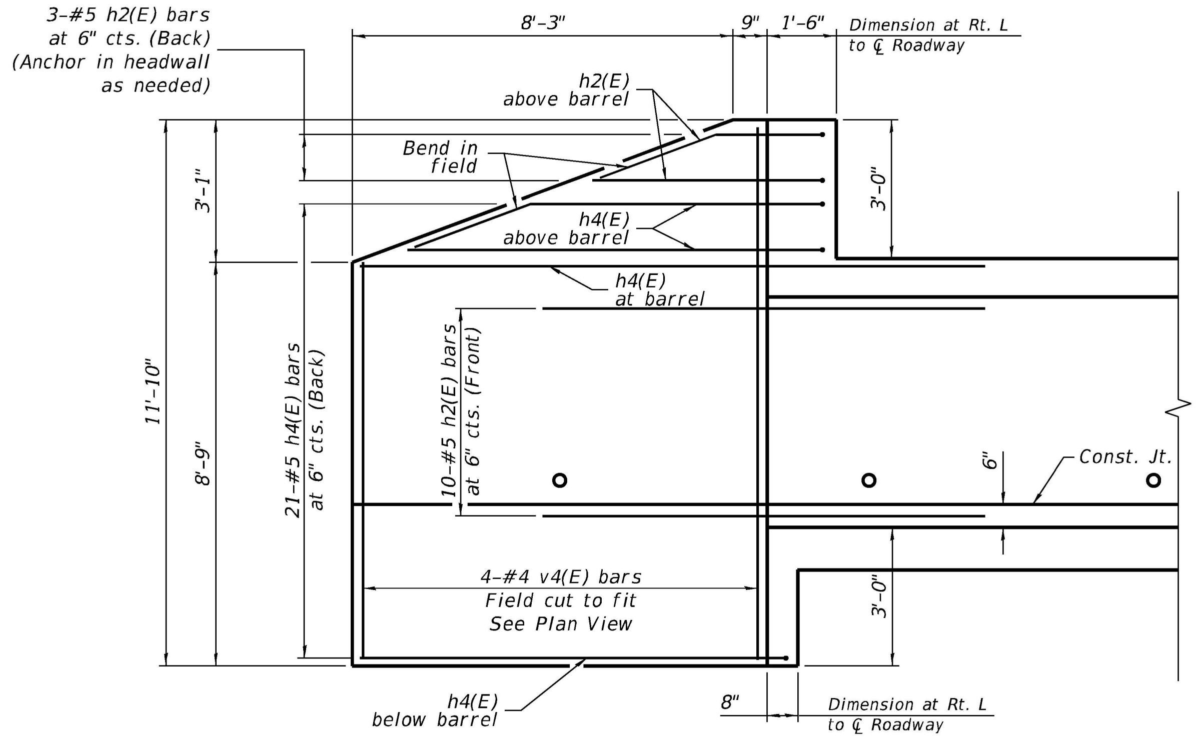
USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - KBM	REVISED -	
PLOT SCALE = 199.9999 ' / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

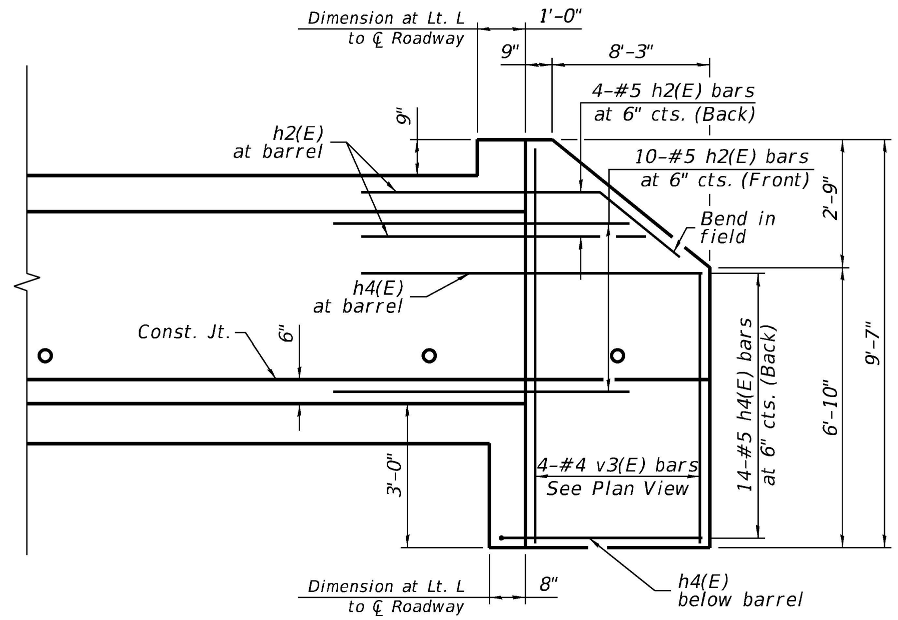
WINGWALL PLAN AND ELEVATION
STRUCTURE NO. 016–1427

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

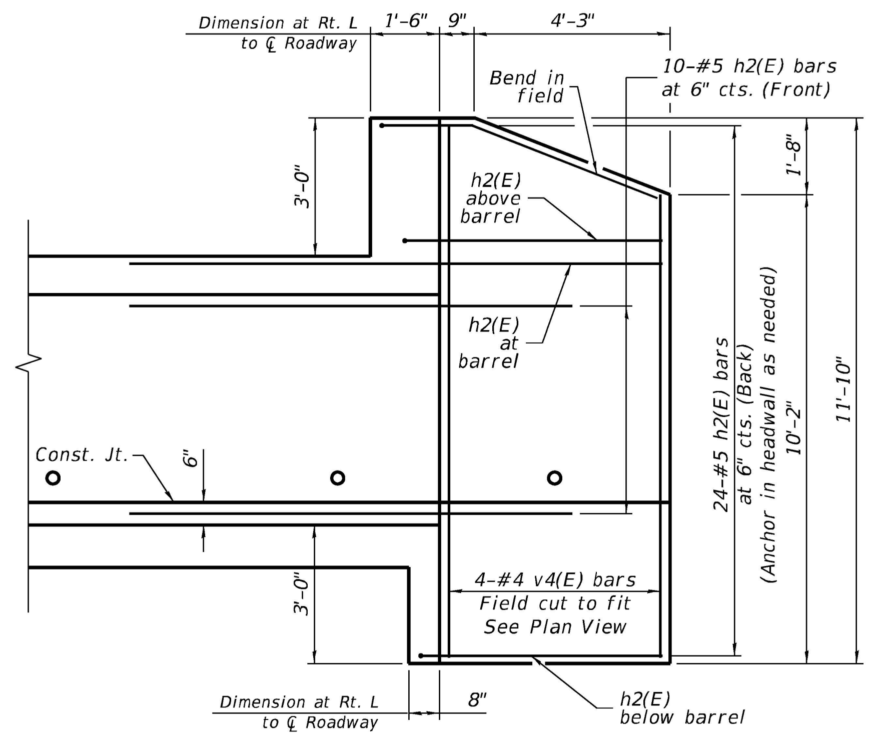
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	170
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



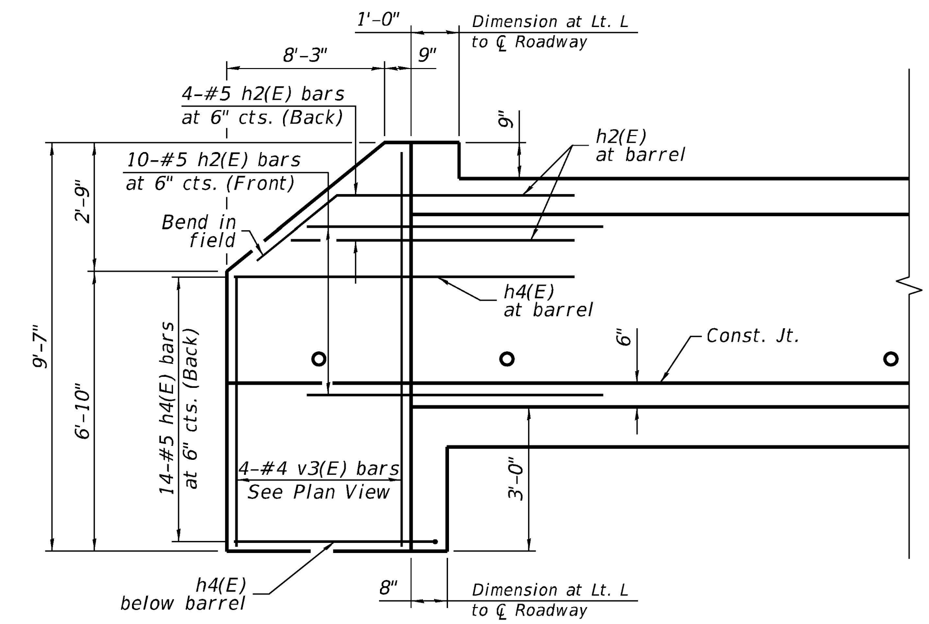
NORTHEAST WALL
(Looking upstream)



SOUTHEAST WALL
(Looking downstream)



NORTHWEST WALL
(Looking upstream)



SOUTHWEST WALL
(Looking downstream)

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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -	
	DRAWN - KBM	REVISED -	
PLOT SCALE = 200.0 ':" / ft.	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
STRUCTURE NO. 016–1427

SCALE: N.T.S. | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	171

CONTRACT NO. 62L30
ILLINOIS | FED. AID PROJECT

BORING LOG CUL-15-01

Page 1 of 1

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 612.68 ft
North: 1829322.20 ft
East: 1092009.37 ft
Station: 155+32.25
Offset: 22.89' LT

Elevation (ft)	Soil and Rock Description	Depth (ft)
612.4	4-inch thick, very soft (<0.25P), black CLAY LOAM; damp --TOPSOIL--	
611.2	Brown and gray SANDY GRAVEL; damp	
	Very stiff, brown CLAY LOAM, some gravel; damp	
608.8	Stiff to very stiff, brown to gray SILTY LOAM, little to some gravel; damp to moist	5
	--L_L(%)=18, P_L(%)=14-- --%Gravel=11.7-- --%Sand=22.8-- --%Silt=58.5-- --%Clay=7.1-- --A-4 (0)--	10
598.7	Boring terminated at 14.00 ft	15

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	PUSH	NP	5
2	PUSH	2.25 P	13
3	PUSH	1.50 P	12
4	PUSH	3.00 P	10
5	PUSH	3.00 P	11
6	PUSH	2.25 P	9
7	PUSH	2.25 P	12

GENERAL NOTES

Begin Drilling: 10-11-2021 | Complete Drilling: 10-11-2021
Drilling Contractor: Wang Testing Services | Drill Rig: Geoprobe HA
Driller: R&A | Logger: M. Sadowski | Checked by: C. Marin
Drilling Method: 1" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 10.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/14/21

BORING LOG CUL-15-02

Page 1 of 1

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 621.81 ft
North: 1829313.89 ft
East: 1092024.43 ft
Station: 155+47.35
Offset: 14.62' LT

Elevation (ft)	Soil and Rock Description	Depth (ft)
621.2	8-inch thick ASPHALT --PAVEMENT--	
620.5	8-inch thick CONCRETE --PAVEMENT--	
620.2	4-inch thick, gray SANDY GRAVEL; dry --BASE COURSE--	
	Medium stiff to very stiff, brown SILTY CLAY LOAM; damp --RDR 2--	5, 10
	--1-inch thick, fine sand seam; wet--	
608.8	Medium dense, gray SILTY LOAM, trace to some gravel; damp --RDR 2--	15, 20
598.8	Loose to medium dense, brown, fine SAND; saturated --RDR 2--	25
591.8	Boring terminated at 30.00 ft	30

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	3, 7, 5	2.25 P	18
2	4, 3, 4	2.00 P	21
3	3, 3, 3	2.50 P	20
4	7, 5, 4	0.75 P	25
5	3, 8, 12	2.46 B	20
6	7, 13, 16	NP	11
7	7, 9, 11	NP	11
8	9, 10, 10	NP	10
9	8, 8, 10	NP	10
10	3, 4, 5	NP	23
11	4, 7, 10	NP	24
12	5, 11, 17	NP	23

GENERAL NOTES

Begin Drilling: 10-13-2021 | Complete Drilling: 10-13-2021
Drilling Contractor: Wang Testing Services | Drill Rig: 20CME55T[81%]
Driller: R&A | Logger: M. Sadowski | Checked by: C. Marin
Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 23.00 ft
At Completion of Drilling: 25.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2690201.GPJ WANGENG.GDT 12/14/21

BORING LOG CUL-15-03

Page 1 of 1

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 269-02-01

Client: Mott MacDonald
Project: Main Street Lemont from Wheeler RD to IL 83
Location: Cook County, IL

Datum: NAVD 88
Elevation: 621.97 ft
North: 1829293.33 ft
East: 1091991.47 ft
Station: 155+14.45
Offset: 6.04' RT

Elevation (ft)	Soil and Rock Description	Depth (ft)
621.3	8-inch thick ASPHALT --PAVEMENT--	
620.5	Gray CRUSHED STONE --AGGREGATE BASE--	
	Medium stiff, brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--	
619.0	Medium dense, brown to gray SILTY LOAM, trace gravel; damp --RDR 2 to 3--	5, 10
610.0	Stiff, gray SILTY CLAY --RDR 2-- --silt seams and 1-in silt layer; moist--	15
605.5	Medium dense to dense, gray SILT to SILTY LOAM, trace gravel; dry --RDR 2-- --RDR 4-- --frequent rig chatter, 20.0 to 21.0 feet-- --possible cobbles--	20
599.0	Medium dense, brown, fine SAND to SANDY LOAM; saturated --RDR 2--	25
592.0	Boring terminated at 30.00 ft	30

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	4, 5, 4	0.50 P	16
2	5, 6, 12	NP	13
3	4, 8, 6	NP	13
4	3, 6, 19	NP	15
5	7, 3, 3	1.00 P	22
6	3, 4, 5	1.80 B	26
7	4, 11, 13	1.50 P	14
8	7, 12, 20	NP	15
9	12, 18, 16	NP	8
10	5, 7, 10	NP	28
11	4, 7, 11	NP	29
12	5, 11, 15	NP	25

GENERAL NOTES

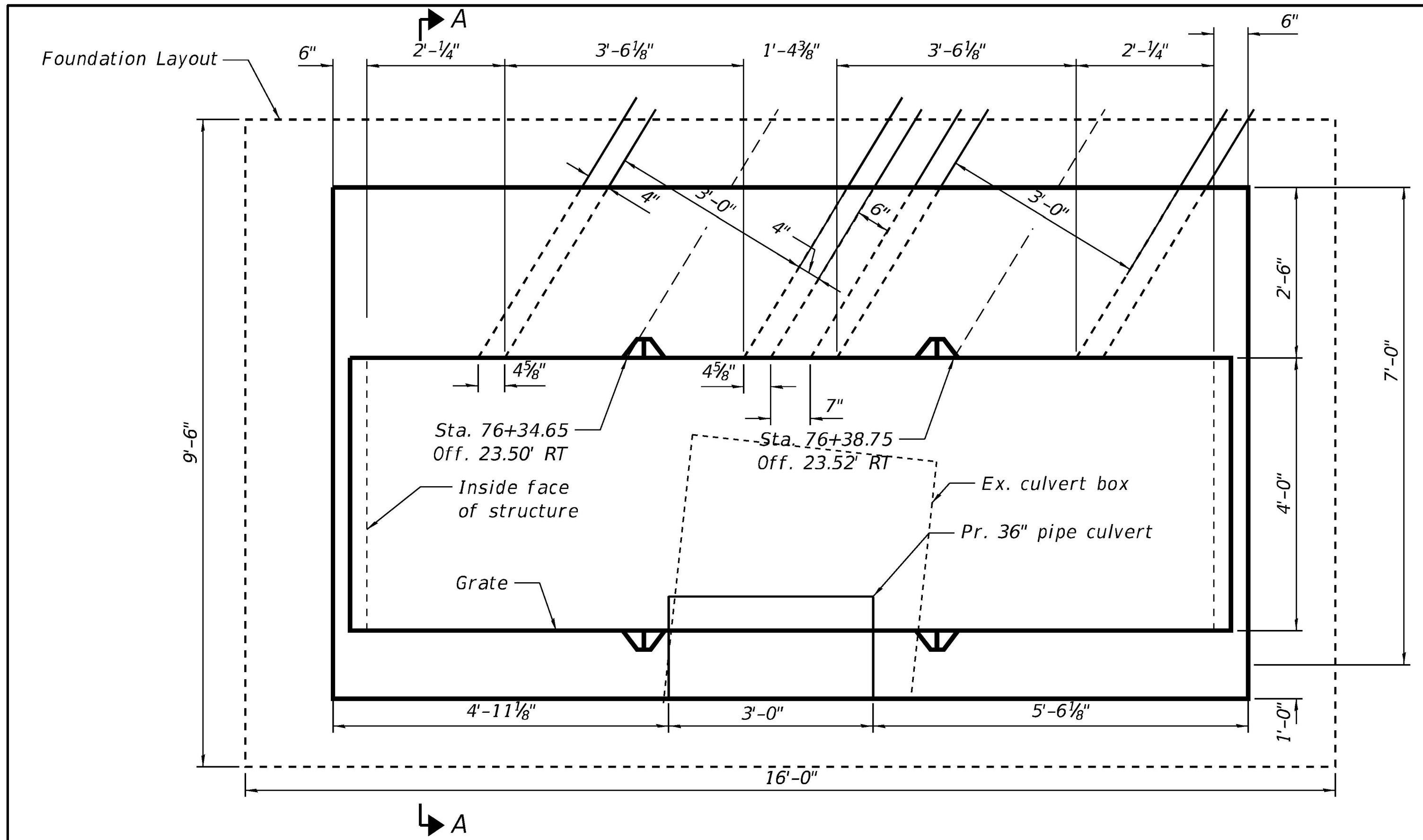
Begin Drilling: 10-05-2021 | Complete Drilling: 10-05-2021
Drilling Contractor: Wang Testing Services | Drill Rig: 20CME55T[81%]
Driller: R&H | Logger: F. Bozga | Checked by: C. Marin
Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

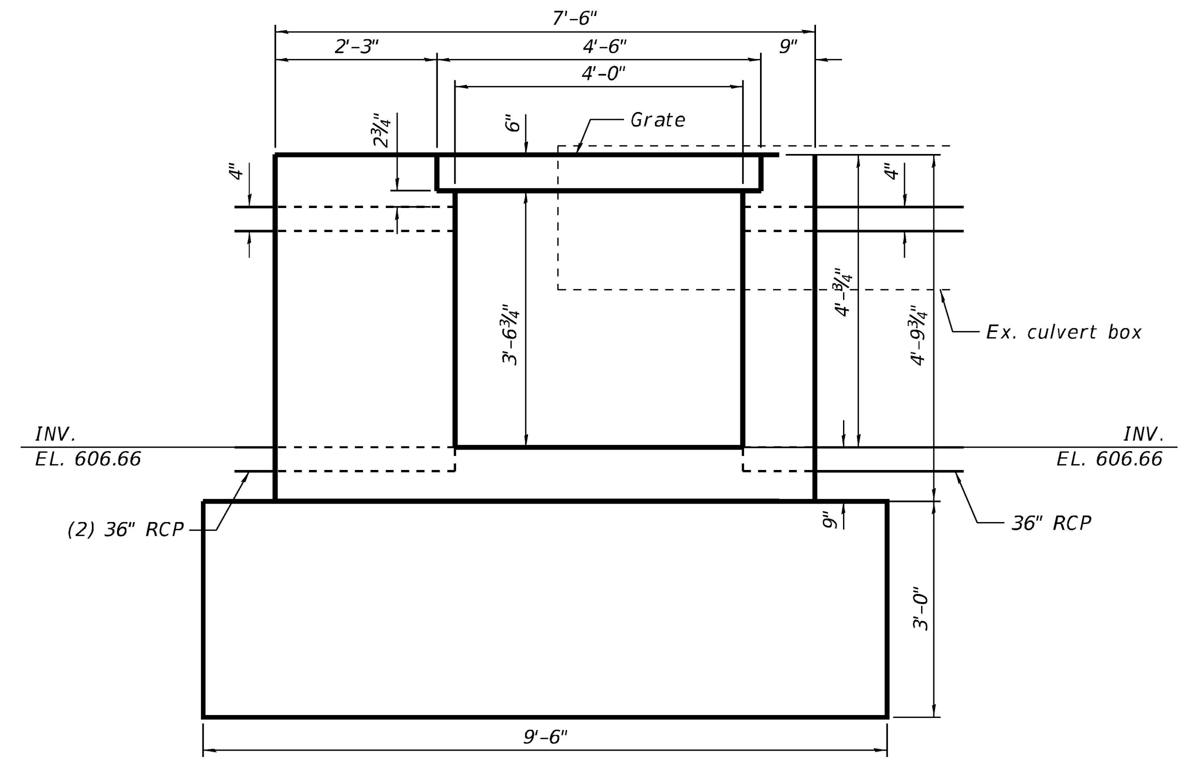
While Drilling: 18.00 ft
At Completion of Drilling: 23.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

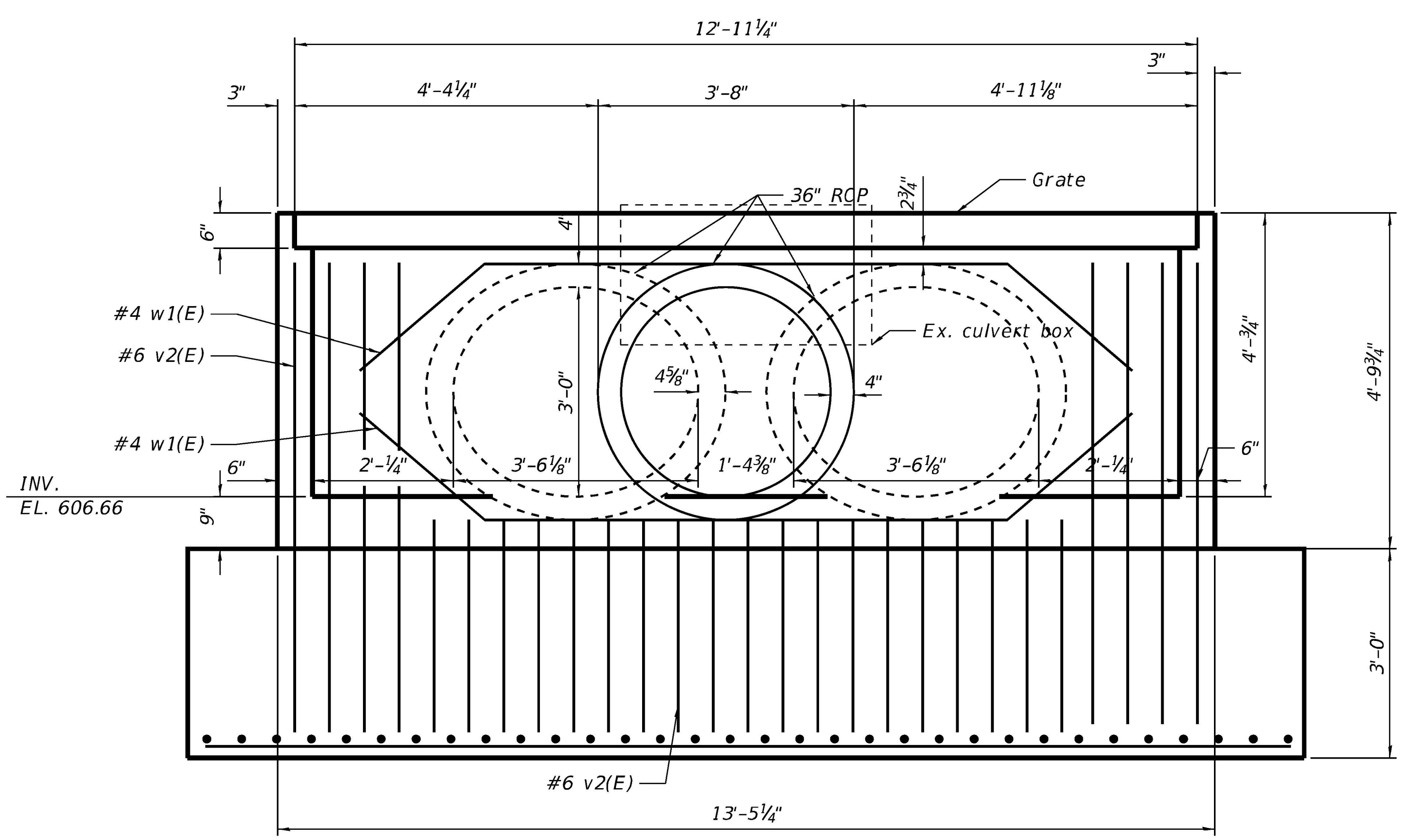
WANGENGINC 2690201.GPJ WANGENG.GDT 12/14/21



BOTTOM SLAB PLAN
(wall reinforcement not shown for clarity)



SECTION A-A



WALL ELEVATION
south face, looking north

MODEL: Default
FILE NAME: pw:\\mott-use-pw.bentley.com:mott-use-pw-20\Documents\507103006-IDOT-Lemont-Main Street\CAD Sheets\D19144920-sht-DS-01.dgn

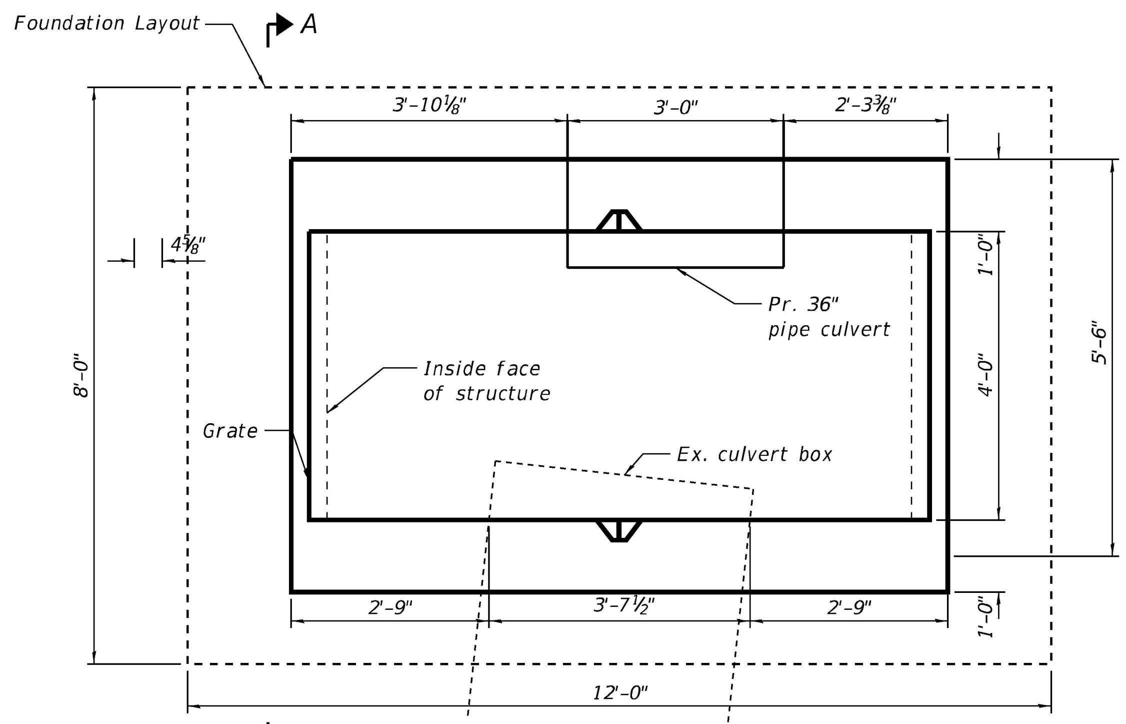
MOTT MACDONALD 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -
		DRAWN - MY	REVISED -
	PLOT SCALE =	CHECKED - RAO	REVISED -
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

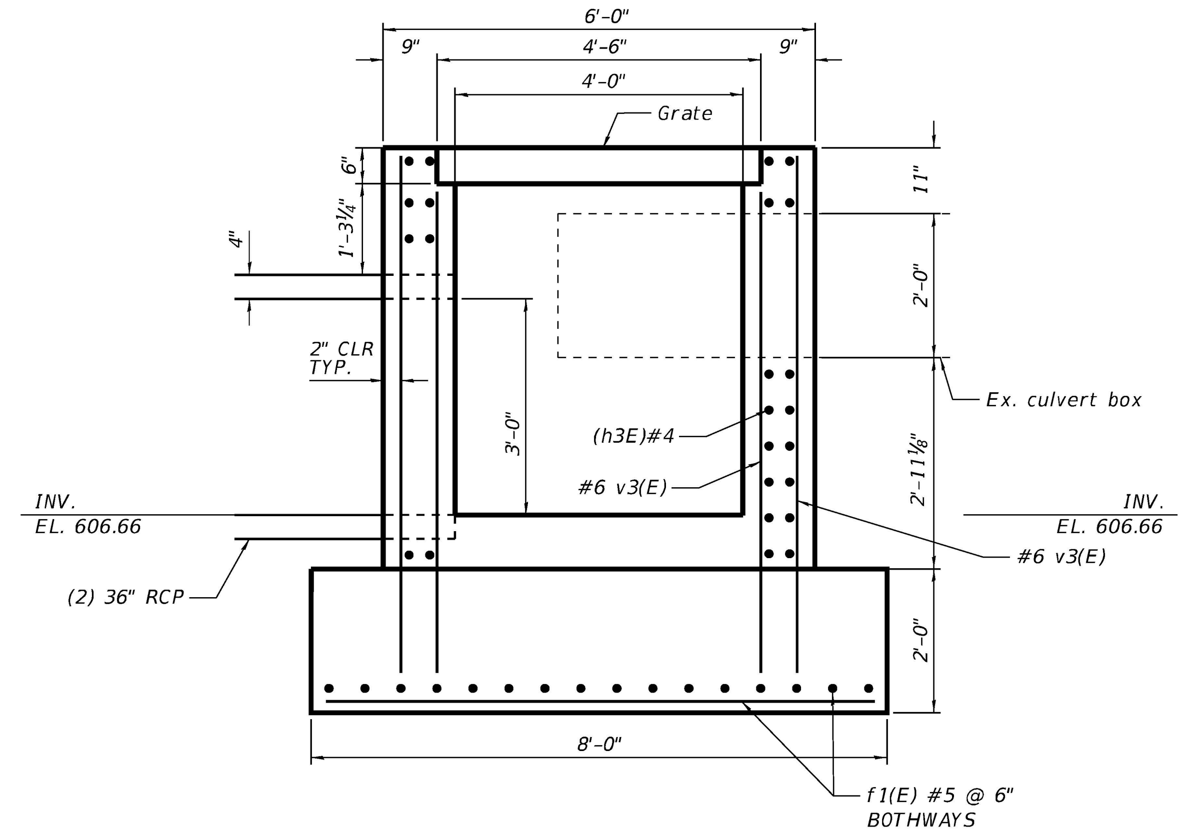
MAIN STREET FROM WHEELER DRIVE TO IL 83
OUTLET 5 DROP INLET (DR-13)

SCALE: | SHEET DS-01 OF DS-04 SHEETS | STA. | TO STA.

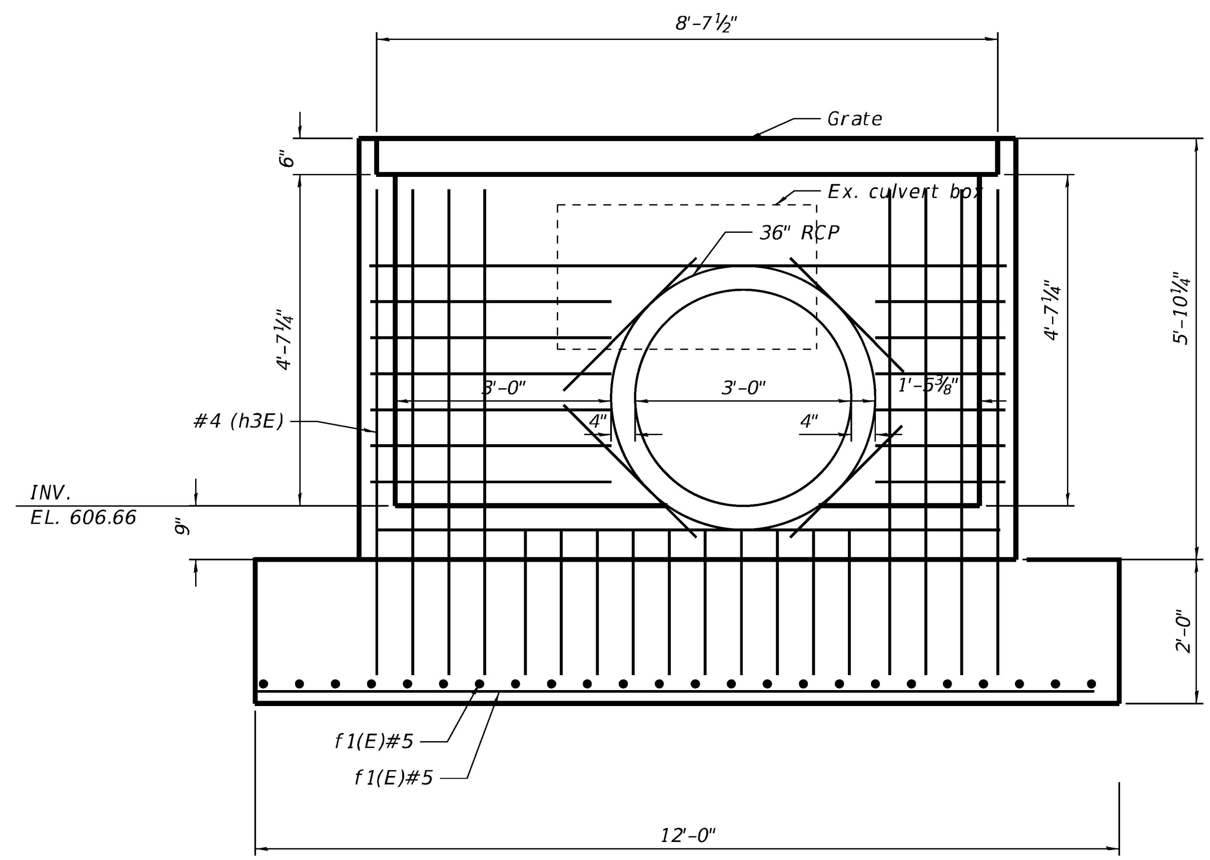
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	173
		CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



BOTTOM SLAB PLAN
(wall reinforcement not shown for clarity)



SECTION A-A



WALL ELEVATION
south face, looking north

MODEL: Default
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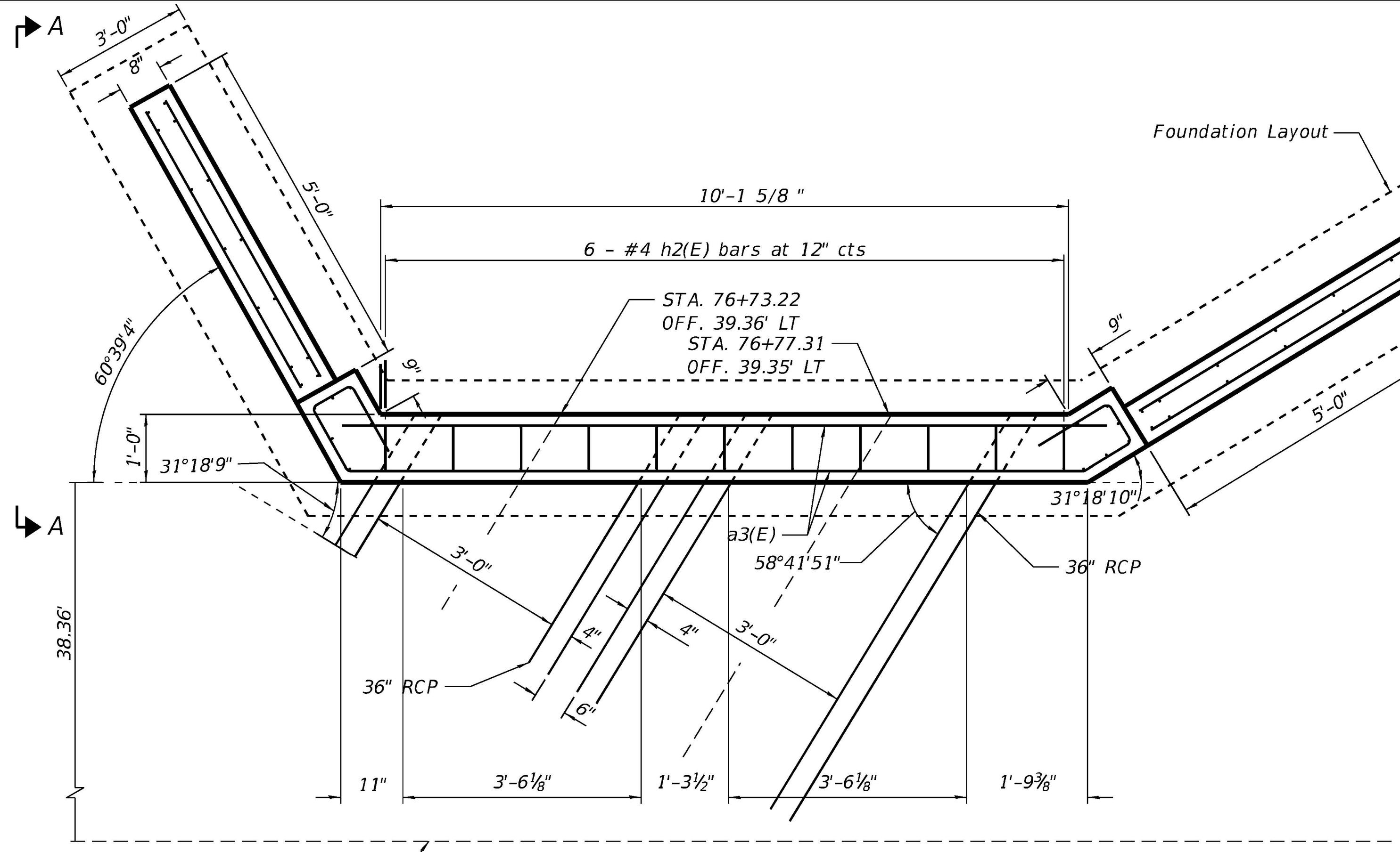
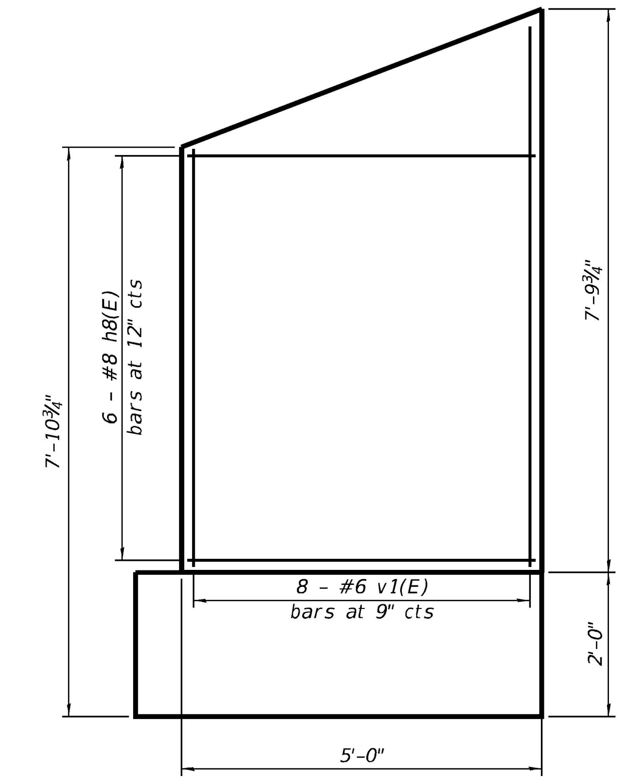
MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 OUTLET 5 DROP INLET (DR-13)
		DRAWN - MY	REVISED -		
	PLOT SCALE =	CHECKED - RAO	REVISED -		
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -		SCALE: / SHEET DS-02 OF DS-04 SHEETS / STA. / TO STA.

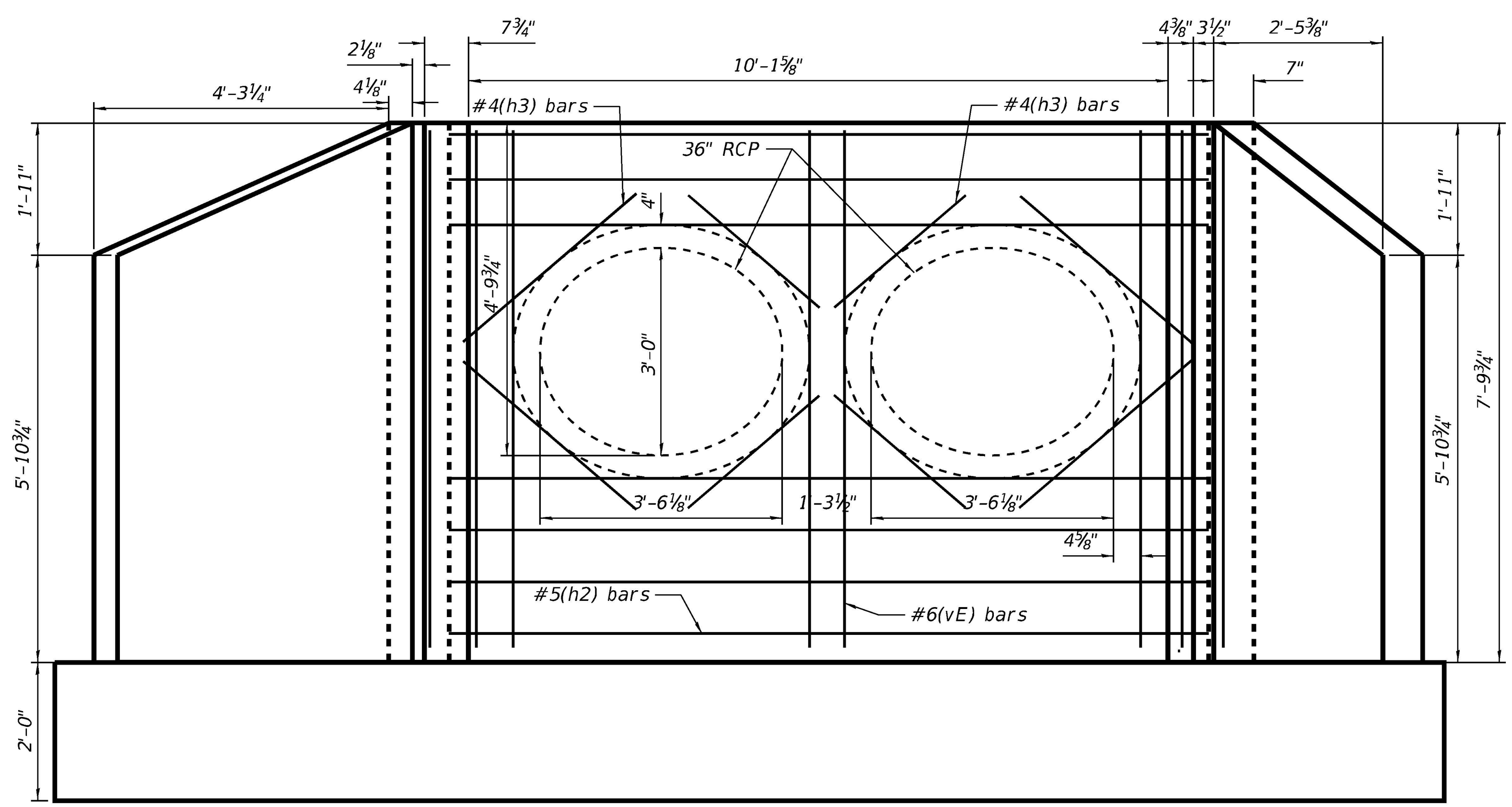
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	174
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



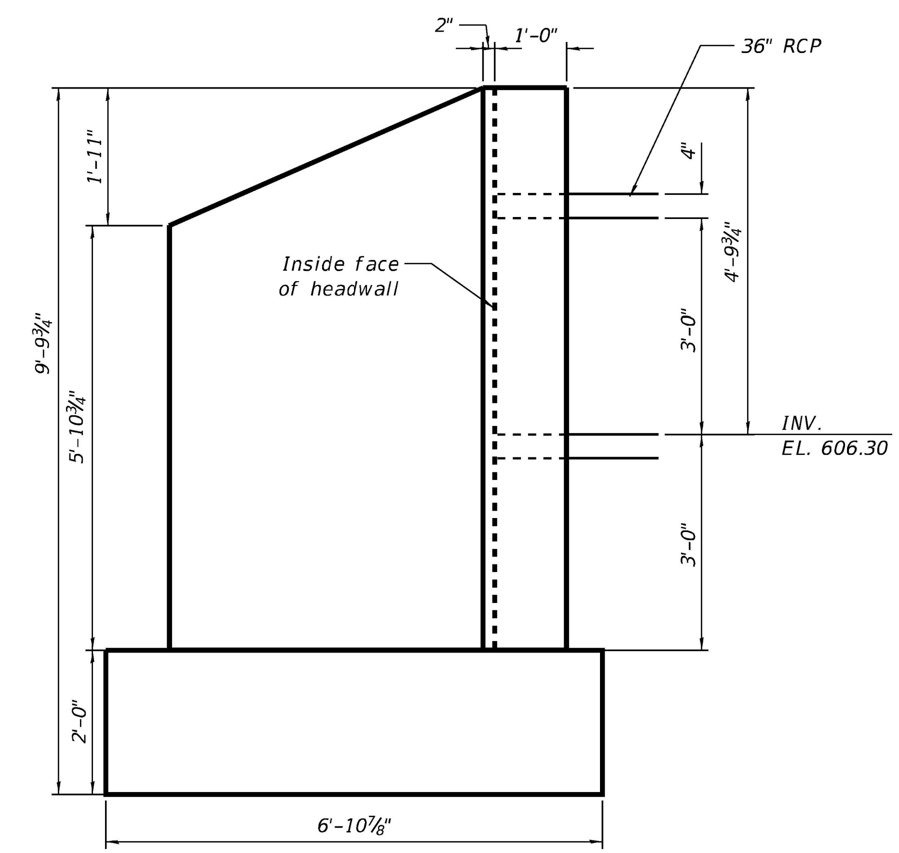
HEADWALL PLAN



WINGWALL REINFORCING



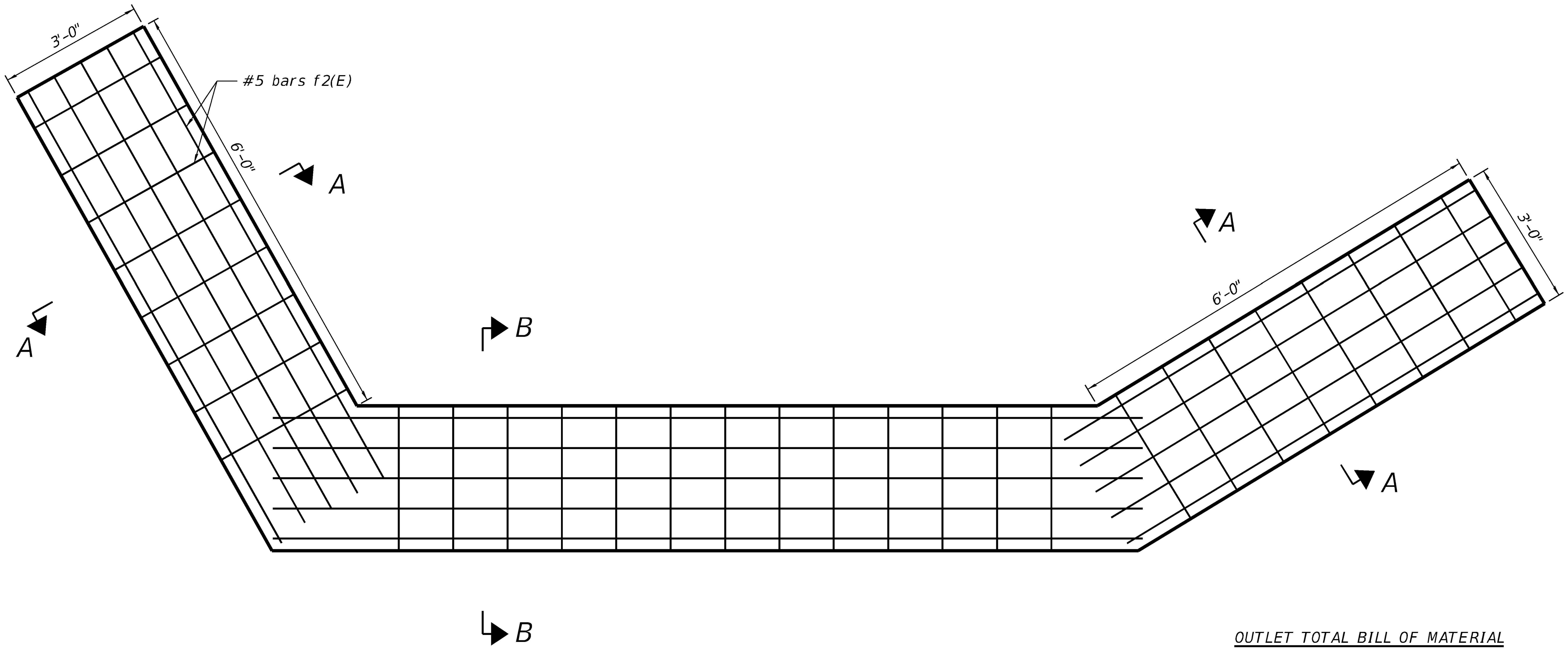
HEADWALL ELEVATION
(Looking south towards north face of headwall)



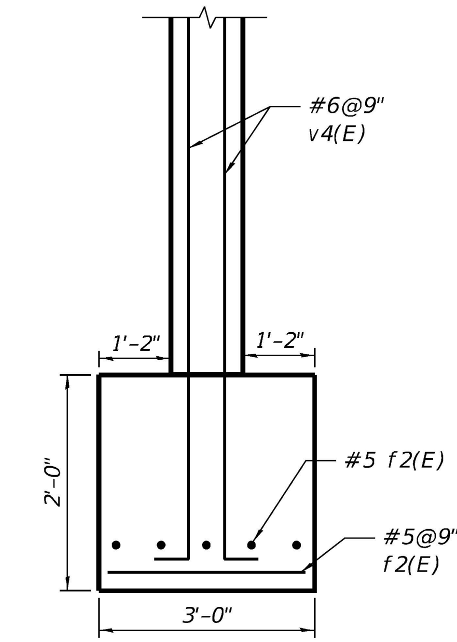
SECTION A-A

MOTT MACDONALD, 10 S LaSalle St, #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - RAO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 OUTLET 5 HEADWALL
		DRAWN - MY	REVISED -		
	PLOT SCALE =	CHECKED - RAO	REVISED -		
	PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -		SCALE: SHEET DS-03 OF DS-04 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	175
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



FOUNDATION PLAN

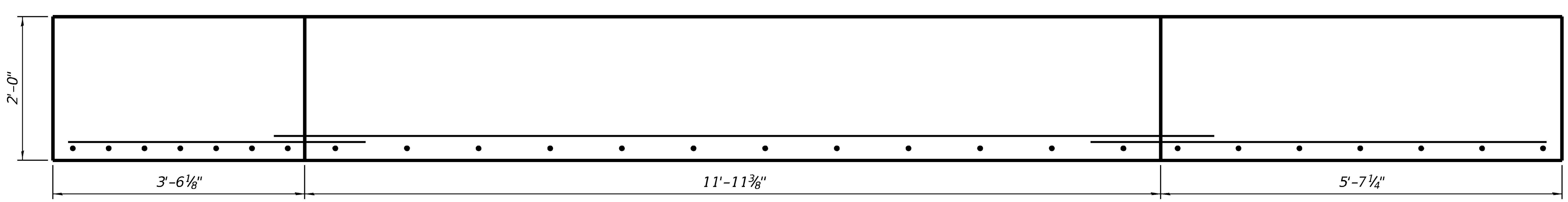


SECTION A-A

OUTLET TOTAL BILL OF MATERIAL

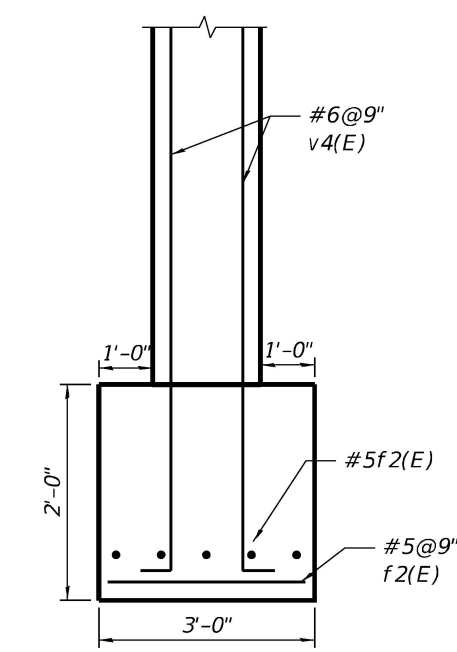
Mark No.	Qty.	Size	Type	Length	Weight
w1(E)	2	#4	S	48	32.064
v2(E)	38	#6	S	222	333.444
v3(E)	48	#6	S	512	769.025
h3(E)	24	#4	S	192	128.256
f1(E)	40	#5	S	416	433.472
h2(E)	12	#5	S	122	127.124
v4(E)	30	#6	S	195	292.89
				Total:	2116.274

Concrete: 28 cu. yd.



FOUNDATION ELEVATION

(Looking north towards south face of headwall foundation)



SECTION B-B

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MOTT MACDONALD — 10 S LaSalle St, #2520, Chicago, IL 60603

USER NAME = lso-user201	DESIGNED - RAO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - MY	REVISED -	
PLOT SCALE =	CHECKED - RAO	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

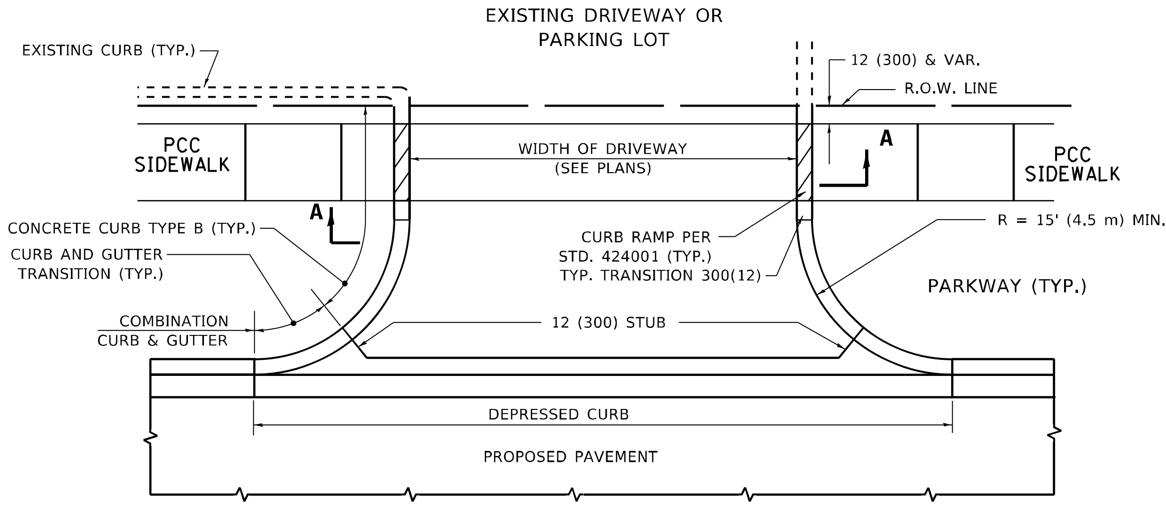
MAIN STREET FROM WHEELER DRIVE TO IL 83
OUTLET 5 HEADWALL FOUNDATION PLAN

SCALE: | SHEET DS-04 OF DS-04 SHEETS | STA. | TO STA.

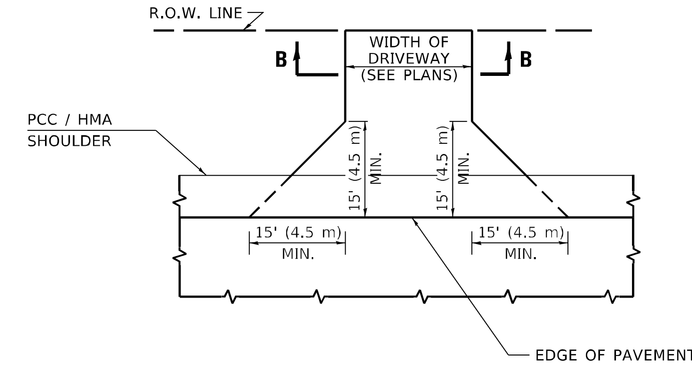
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	176

CONTRACT NO. 62L30

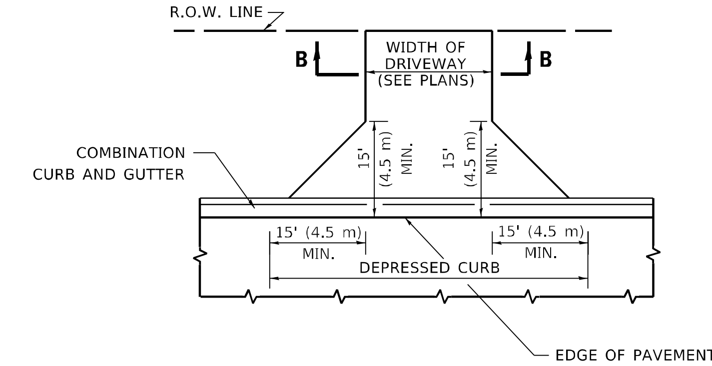
ILLINOIS | FED. AID PROJECT



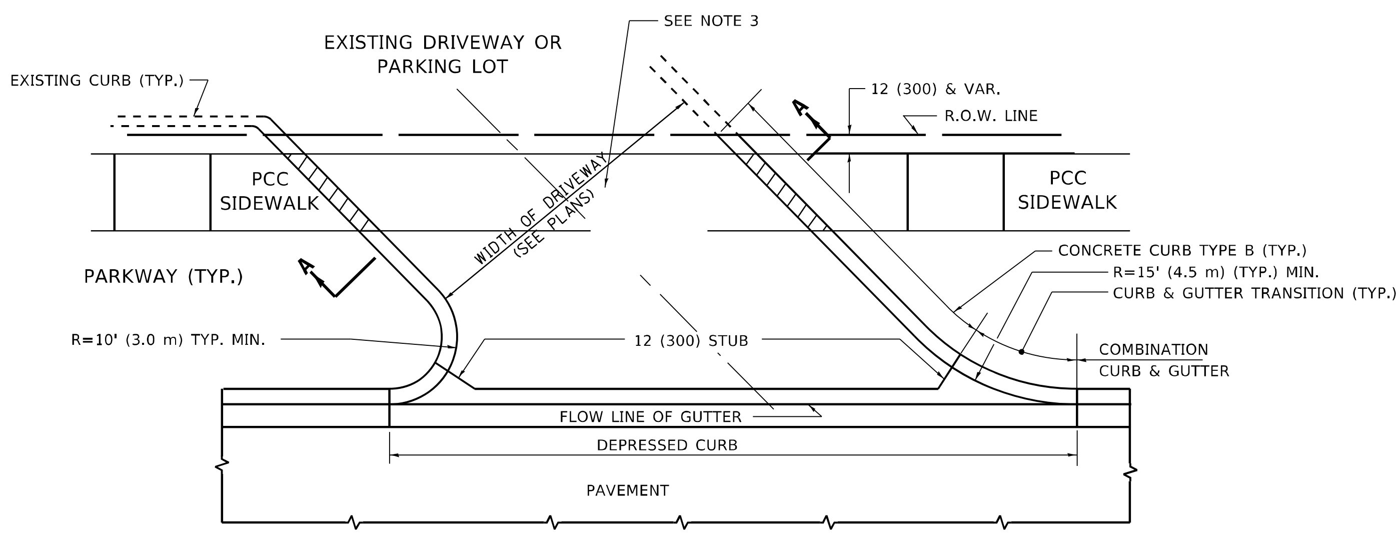
WITH CONCRETE CURB, TYPE B



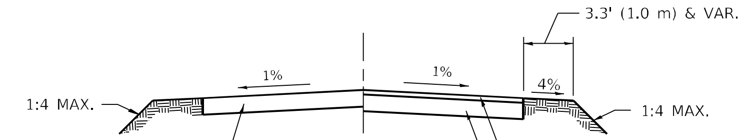
ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B



SECTION B–B

RIGID DRIVEWAY
COMMERCIAL ENTRANCE (CE):
PCC DRIVEWAY PAVEMENT 8 (200)

PRIVATE ENTRANCE (PE):
PCC DRIVEWAY PAVEMENT 6 (150)

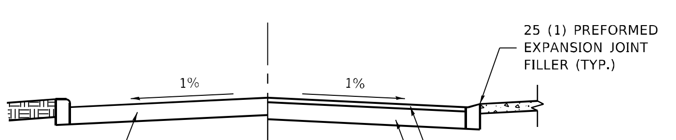
HMA DRIVEWAY
HMA SURFACE COURSE,
MIX "D", IL-9.5, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

COMMERCIAL ENTRANCE (CE):
HMA BASE COURSE., 8 (200)
MEASURED IN SQ. YD. (m^2).

PRIVATE ENTRANCE (PE):
HMA BASE COURSE., 6 (150)
MEASURED IN SQ. YD. (m^2).

RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX "D", IL-95, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE COURSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m^2).



SECTION A–A

RIGID DRIVEWAY
COMMERCIAL ENTRANCE (CE):
PCC DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m^2)

PRIVATE ENTRANCE (PE):
PCC DRIVEWAY PAVEMENT 6 (150
MEASURED IN SQ. YD. (m^2)

HMA DRIVEWAY
HMA SURFACE COURSE,
MIX "D", IL-9.5, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

COMMERCIAL ENTRANCE (CE):
HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m^2).

PRIVATE ENTRANCE (PE):
HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m^2).

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

2. COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

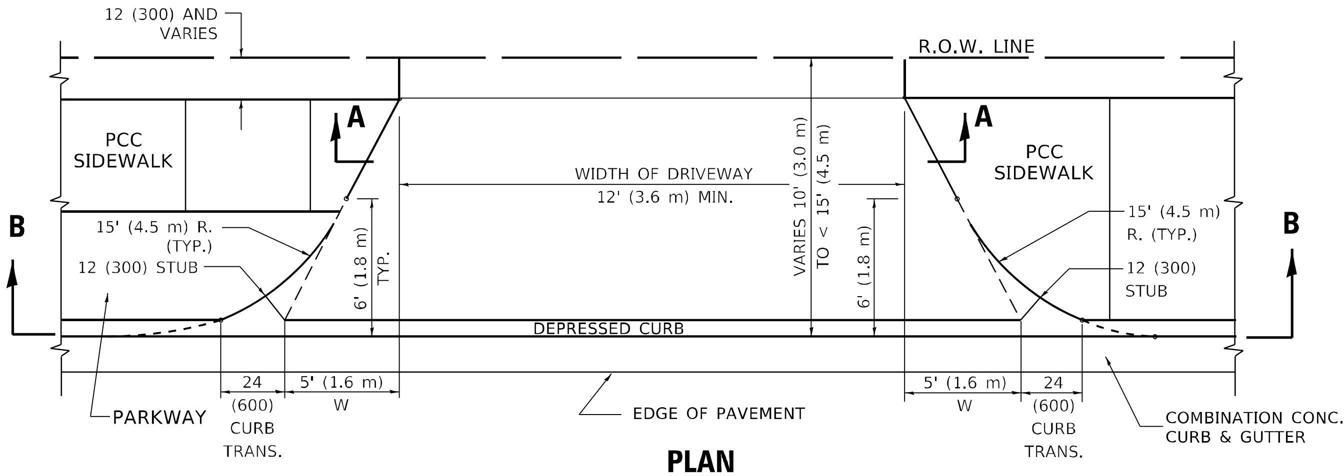
USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 11/18/2022	DATE - 11-04-95	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)

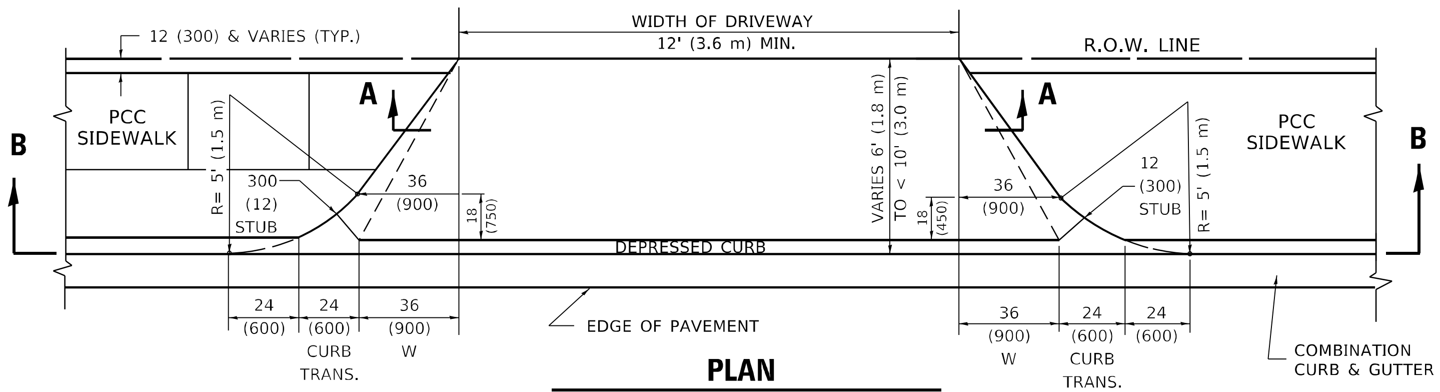
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	177
BD400–01 (BD–01)		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



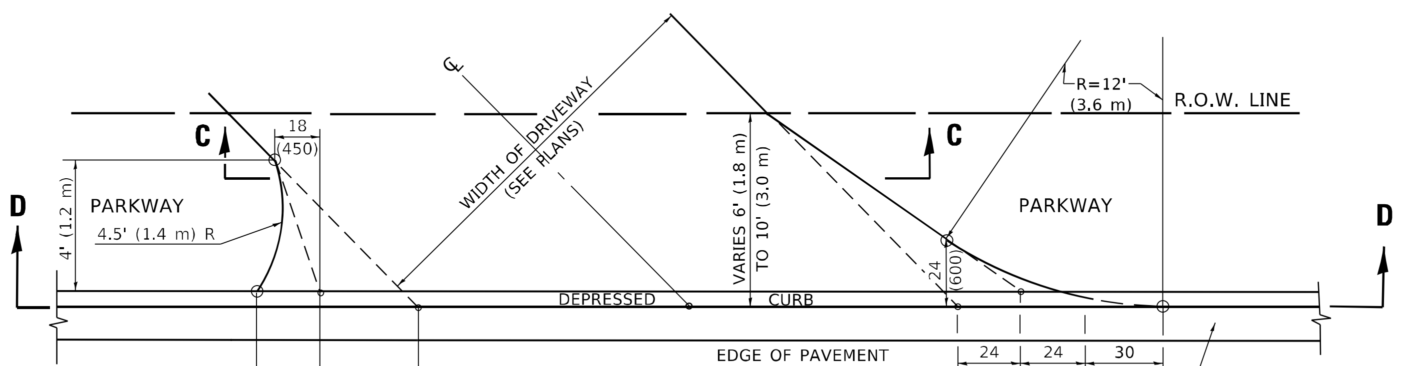
PLAN

10' (3.0 m) TO < 15' (4.5 m)



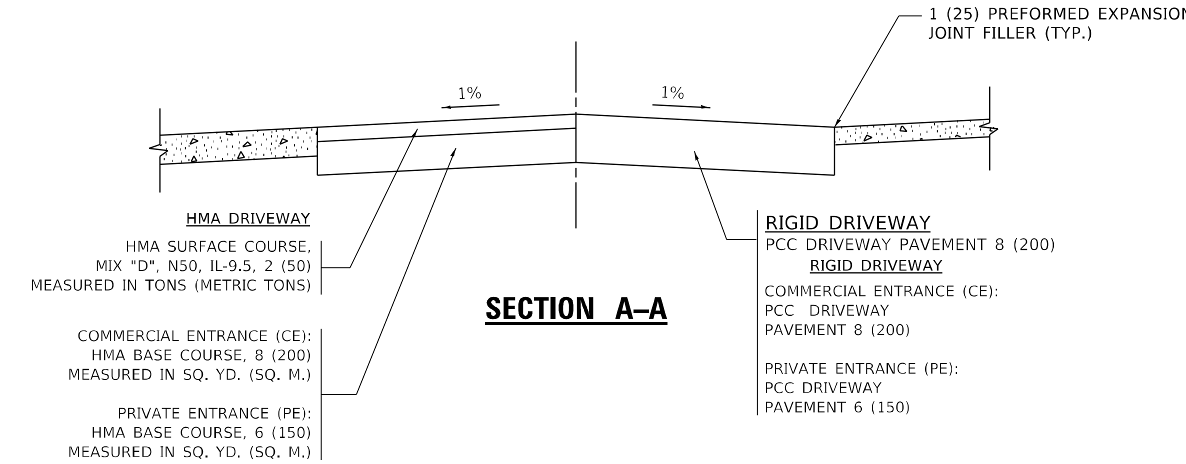
PLAN

6' (1.8 m) TO < 10' (3.0 m)

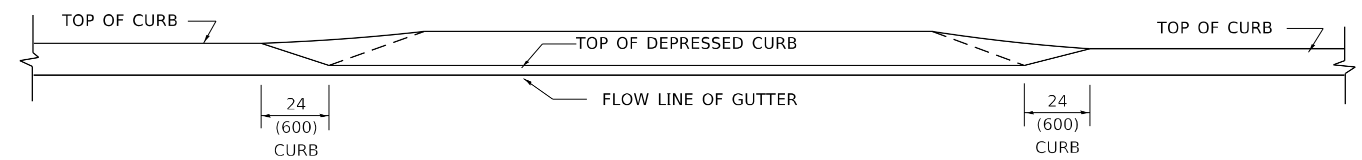


PLAN

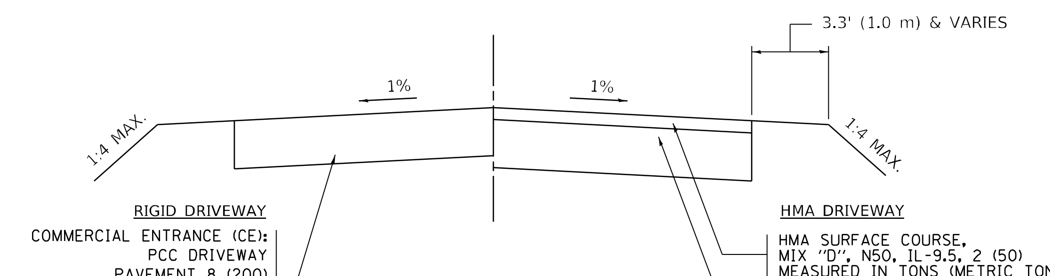
6' (1.8 m) TO 10' (3.0 m)



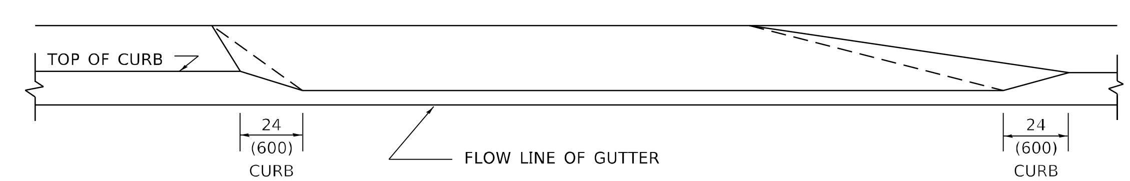
SECTION A–A



SECTION B–B



SECTION C–C



SECTION D–D

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

2. WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

3. "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

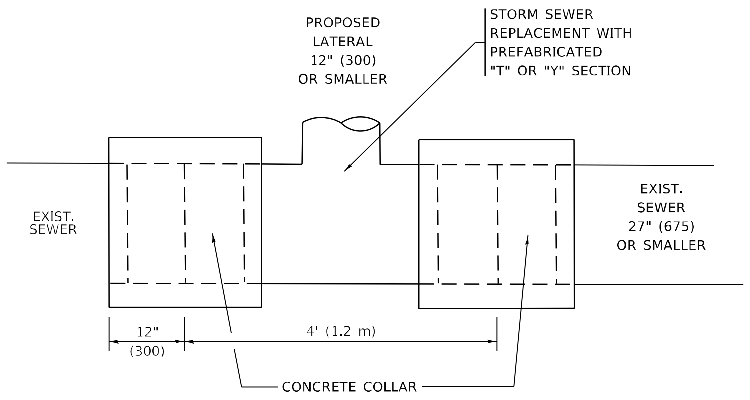
MODEL: Default
FILE NAME: pw:\\lldot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Std22x34\CADData\CADSheets\bd02.dgn

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19	
PLOT DATE = 11/18/2022	DATE - 11-06-95	REVISED - K. SMITH 11-18-22	

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)

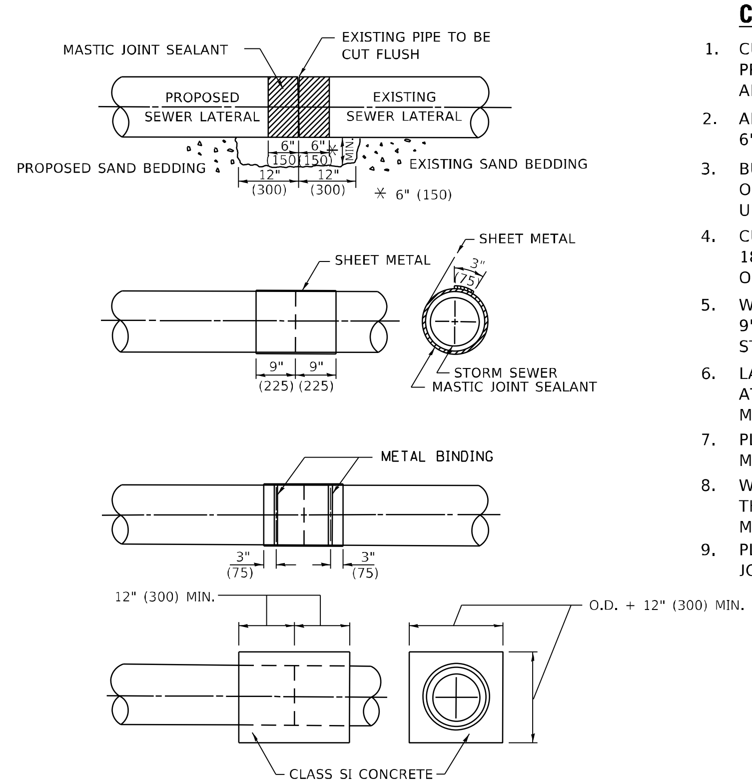
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	178
BD400–02 (BD–02)		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

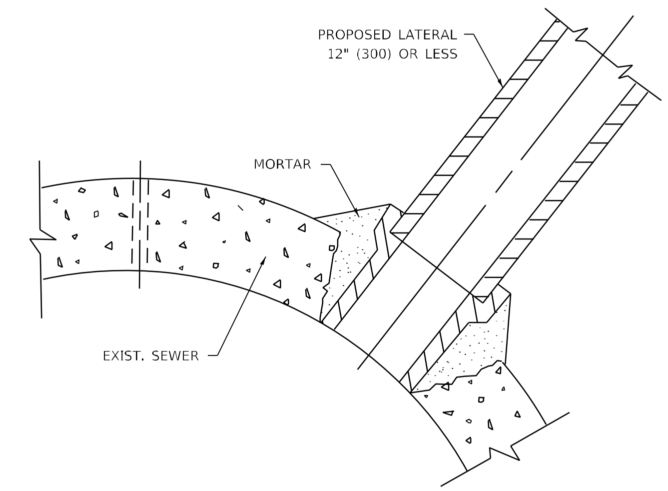


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
   A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
   B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

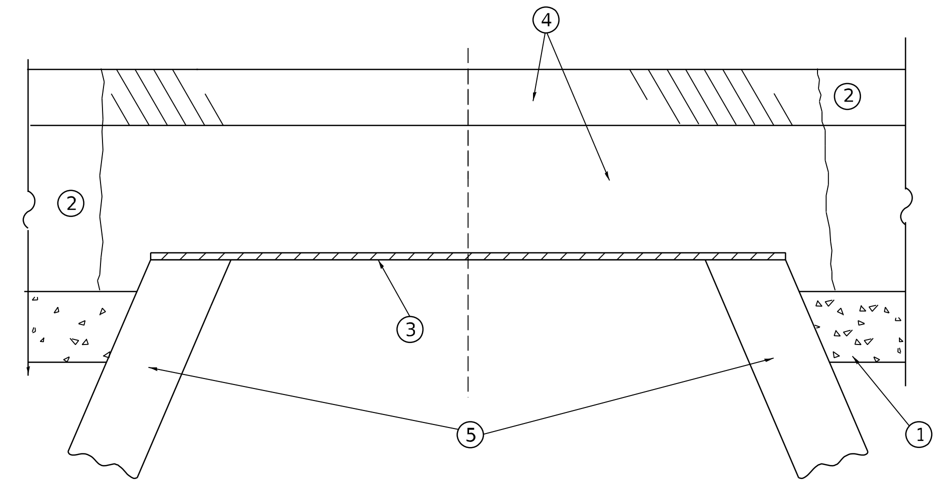
GENERAL

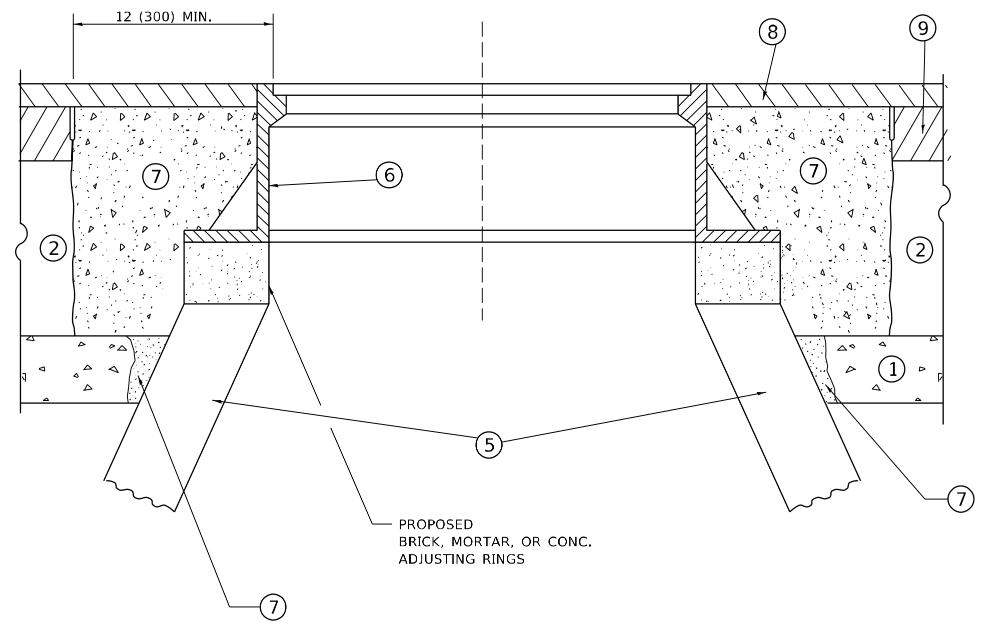
1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.





DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1 SUB-BASE GRANULAR MATERIAL
2 EXISTING PAVEMENT
3 36 (900) DIAMETER METAL PLATE
4 PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5 EXISTING STRUCTURE
6 FRAME AND LID (SEE NOTES)
7 CLASS PP-2* CONCRETE
8 PROPOSED HMA SURFACE COURSE
9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	
	DRAWN -	REVISED - R. BORO 12-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22	
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	180
BD600–03 (BD–08)		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		

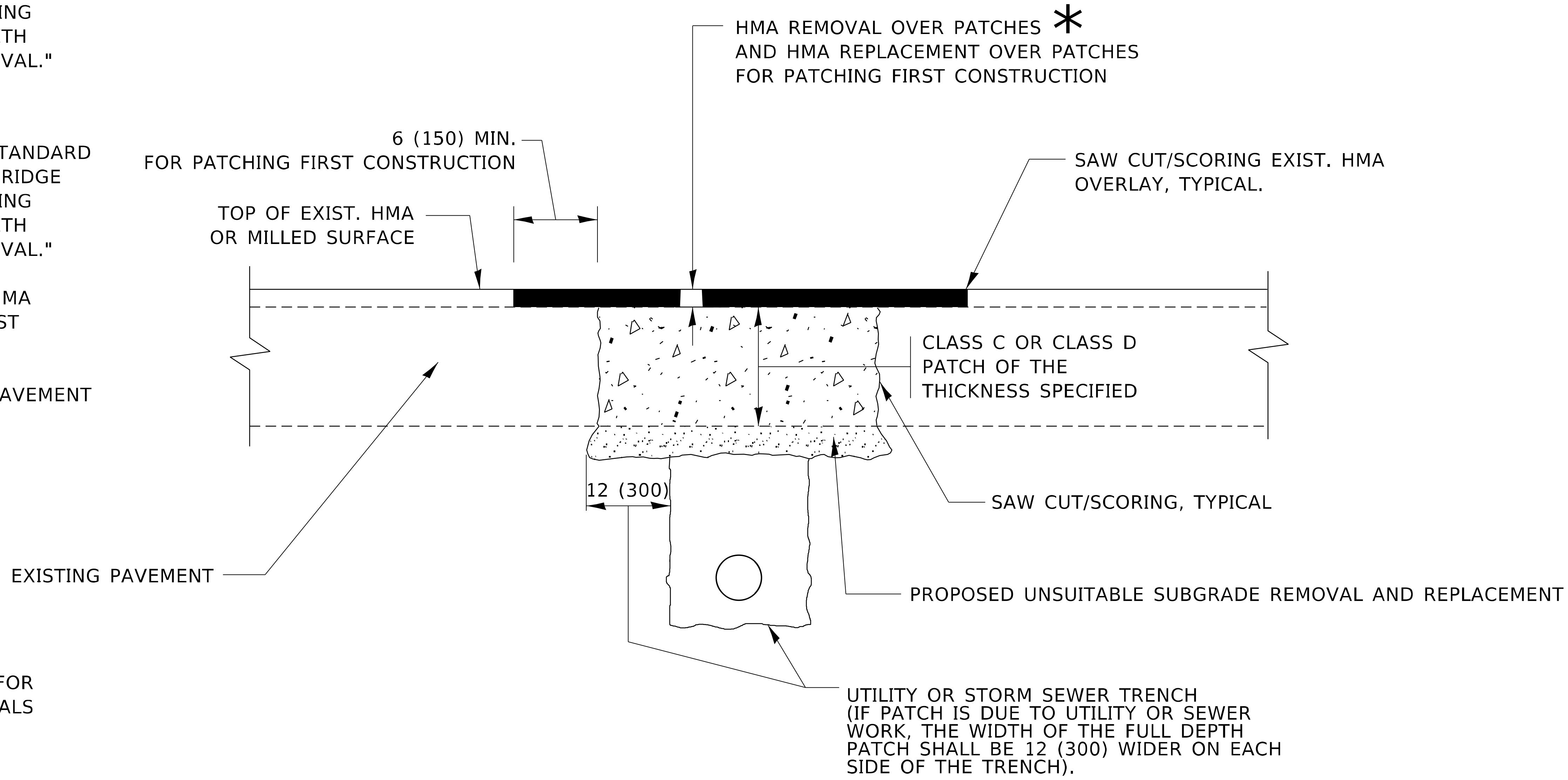
MODEL: Default
FILE NAME: W:\dist\std\22x34\bd08.dgn

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

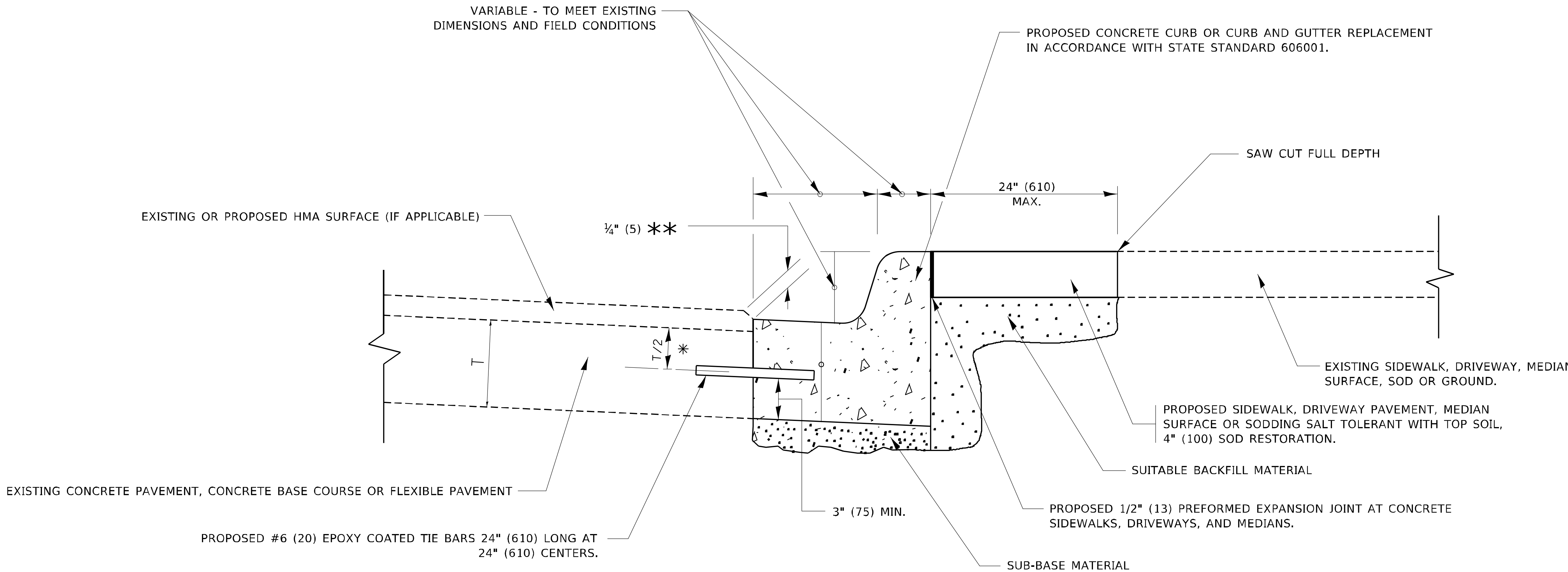
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
	DRAWN -	REVISED - R. BORO 09-04-07		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08		
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	181
	BD400–04 (BD–22)	CONTRACT NO. 62L30		
	ILLINOIS FED. AID PROJECT			



✱ 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

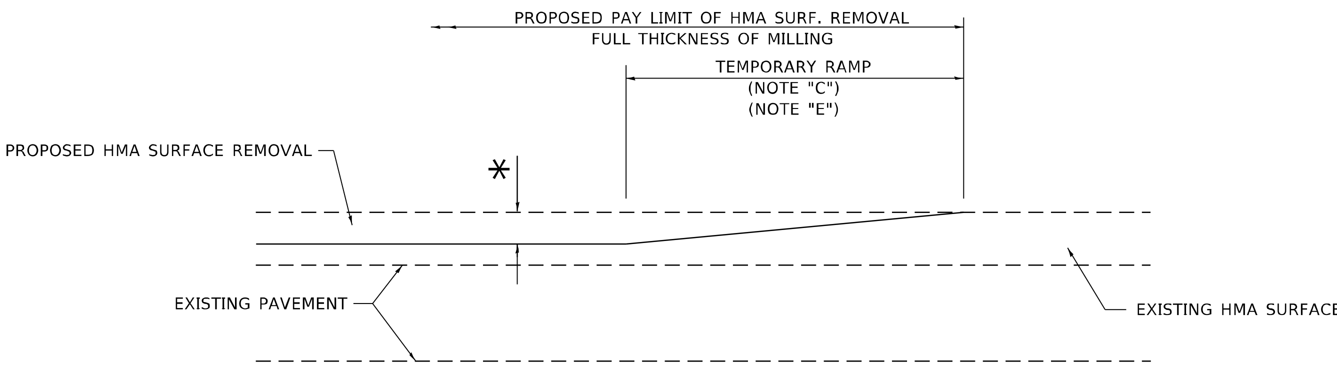
✱✱ IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
	DRAWN -	REVISED - M. GOMEZ 01-22-01		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09		
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19		SCALE: NONE · SHEET 1 OF 1 SHEETS · STA. · TO STA.

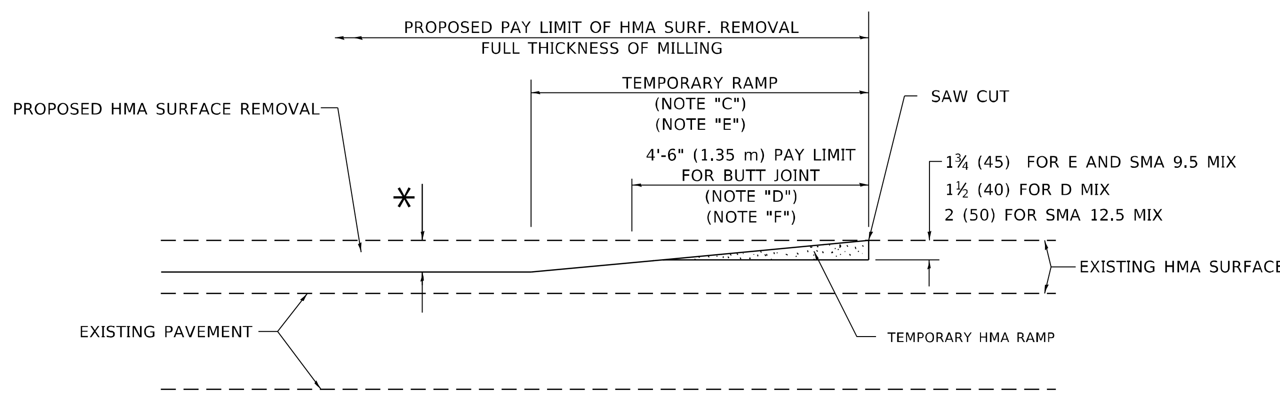
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	182
	BD600–06 (BD–24)	CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

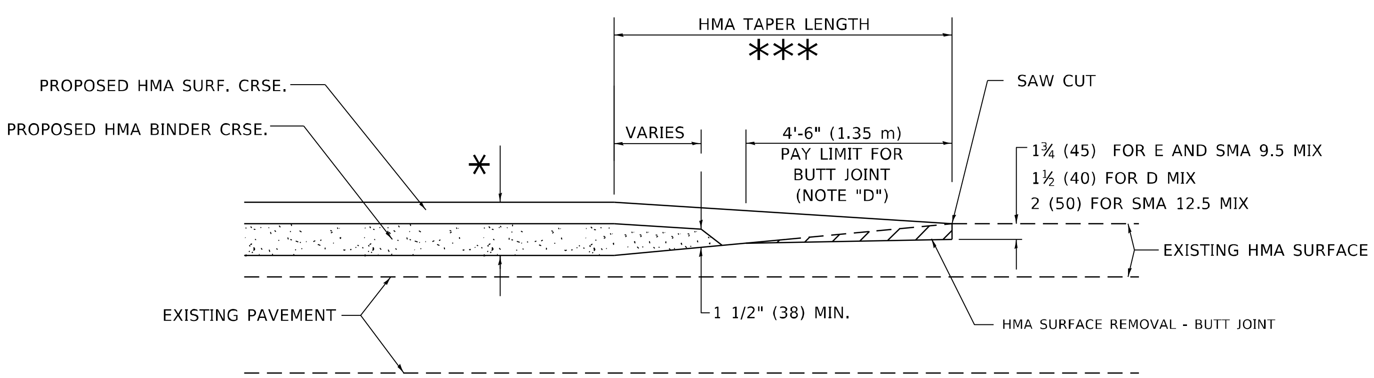


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

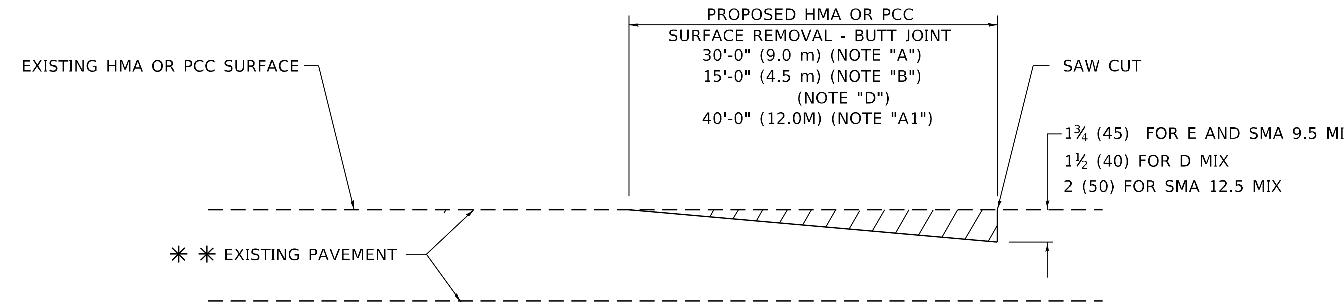
OPTION 2

TYPICAL TEMPORARY RAMP

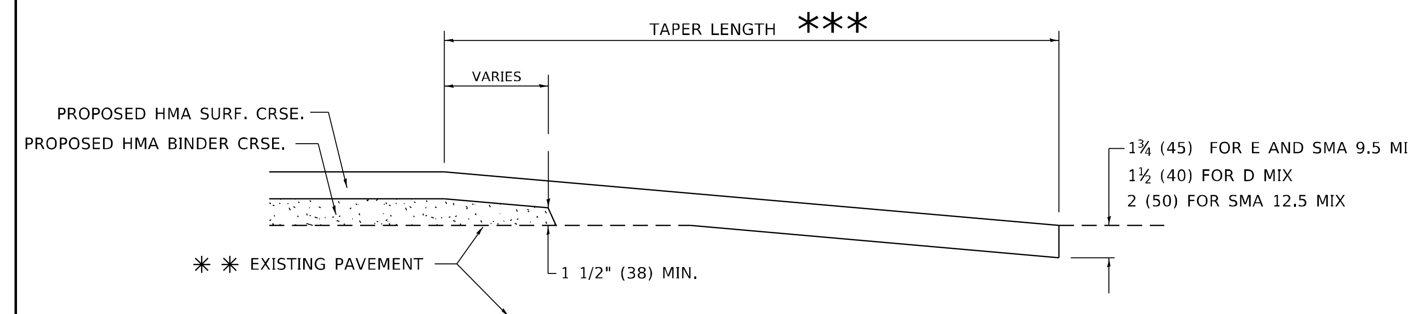


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

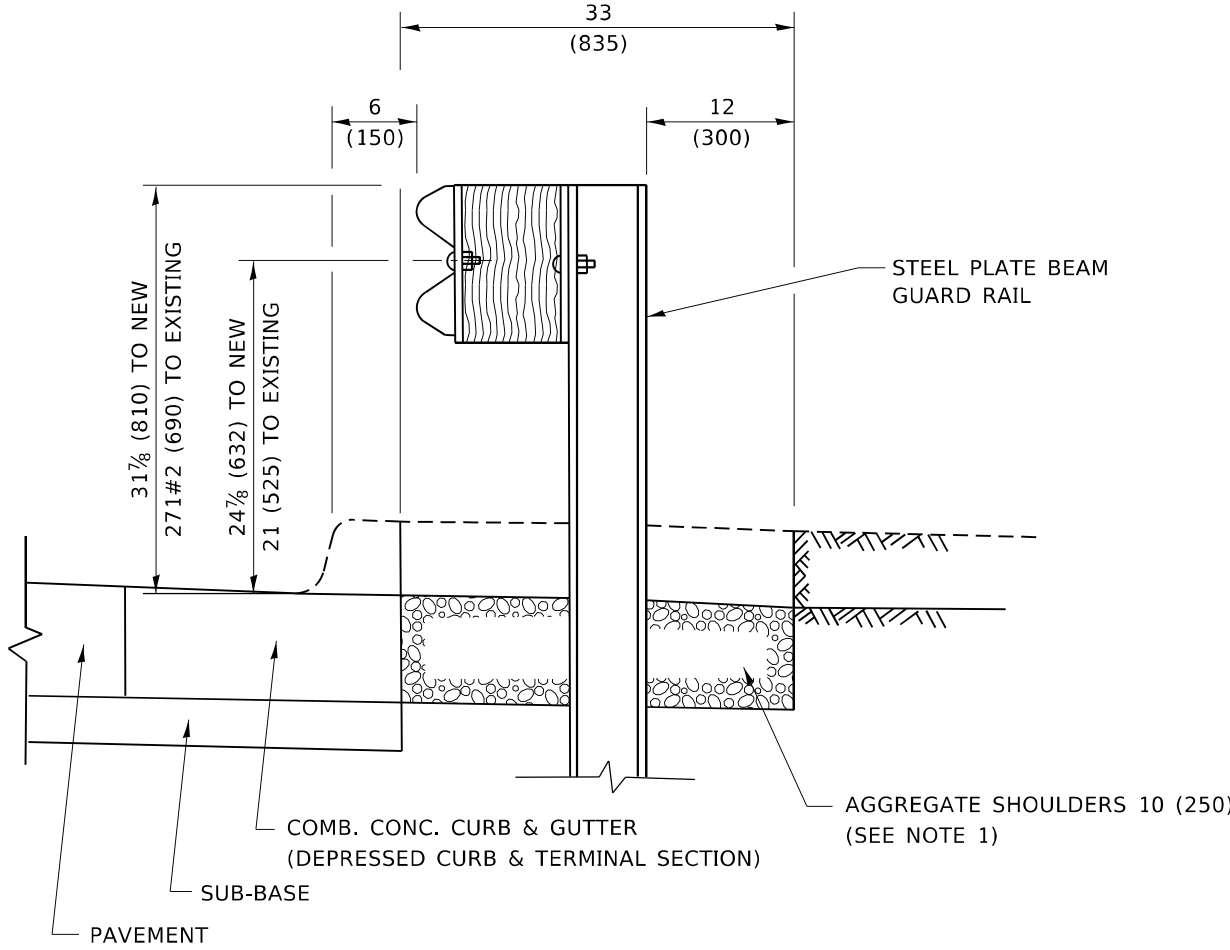
MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADsheets\bd32.dgn

USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	183
BD400-05 BD-32		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		

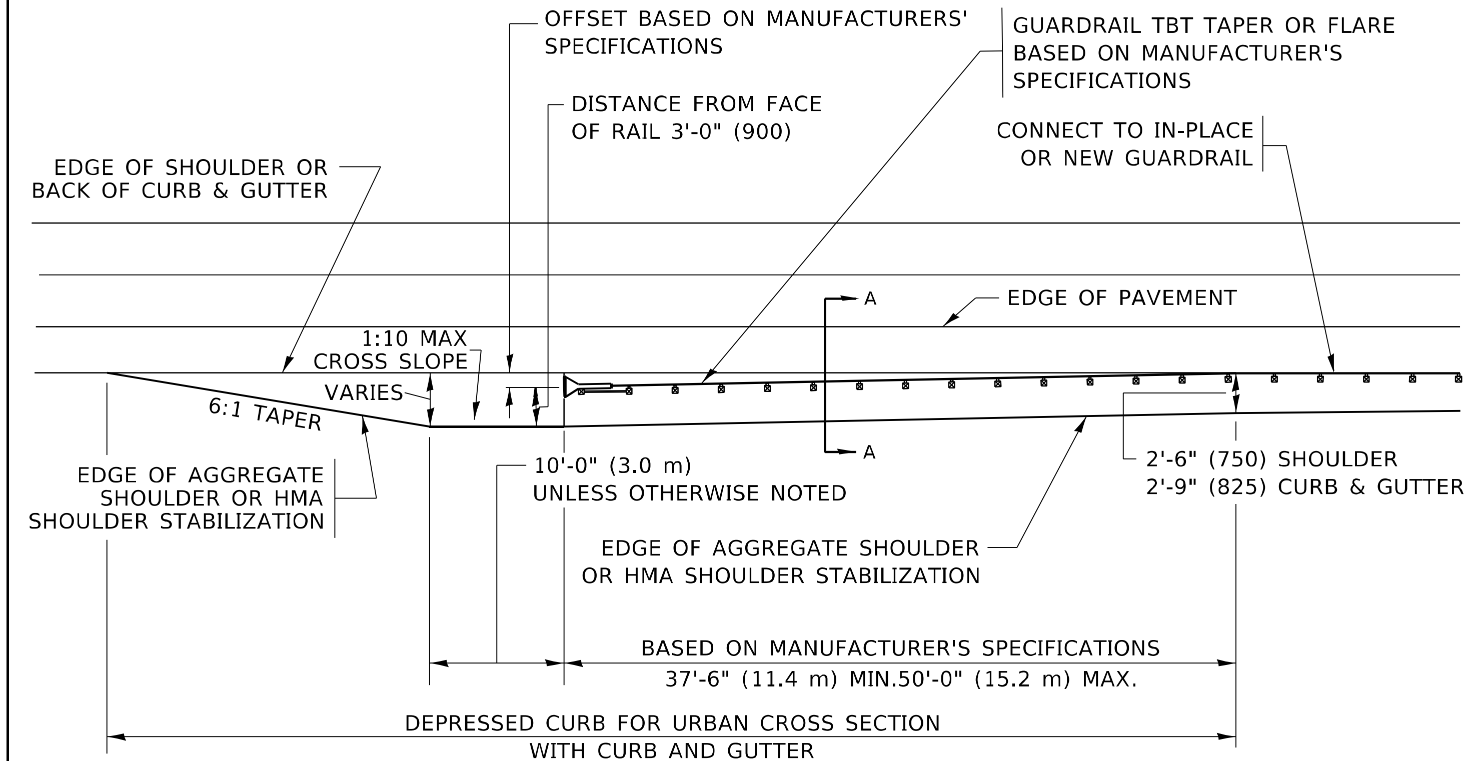


SECTION A–A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSISTION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUADRAIL.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

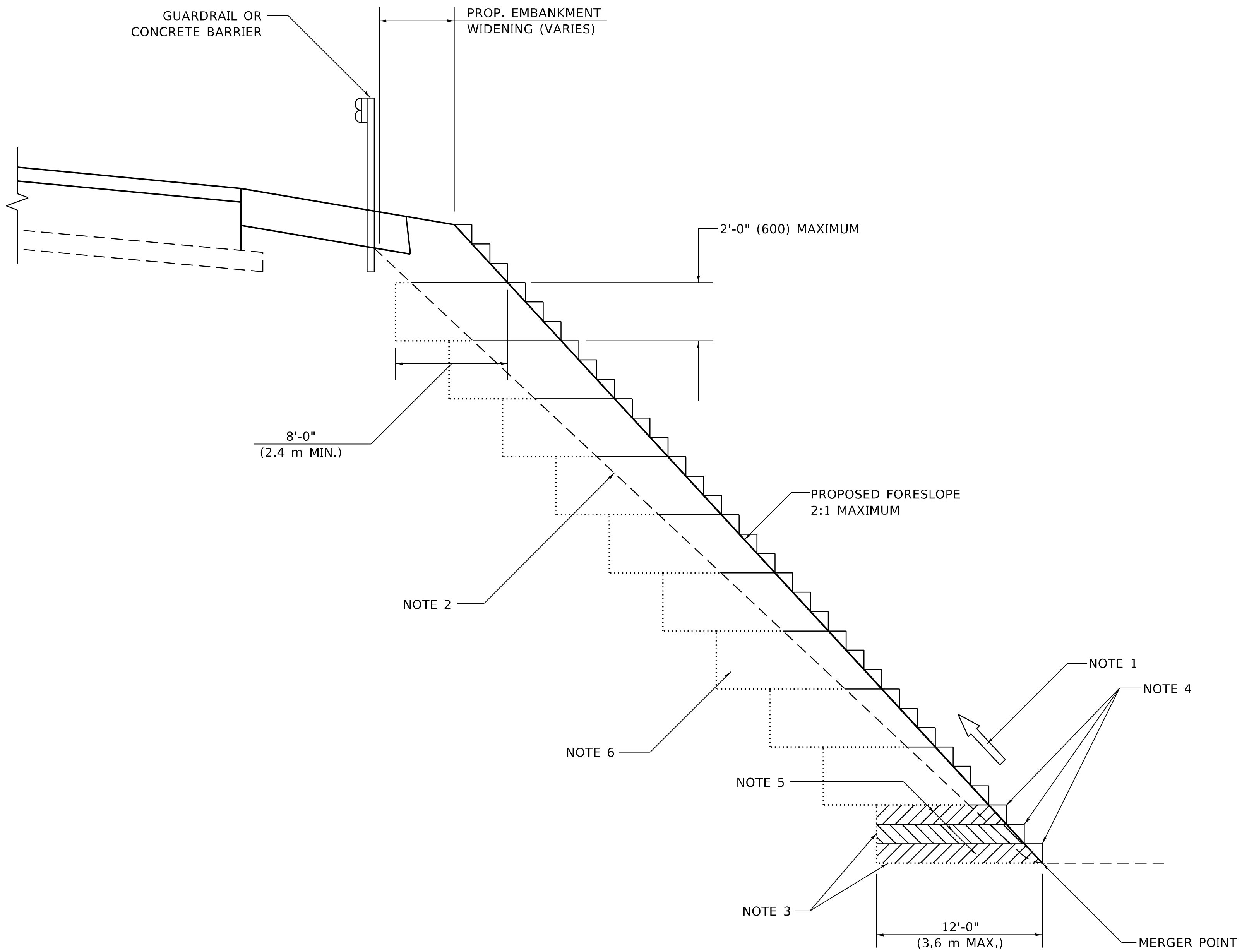
USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - R. BORO 09-14-2009
	DRAWN -	REVISED - R. BORO 08-06-2012
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 05-08-2015
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	184
	BD600-10 (BD-34)	CONTRACT NO. 62L30		
		ILLINOIS	FED. AID PROJECT	



TYPICAL BENCHING DETAIL FOR EMBANKMENT

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

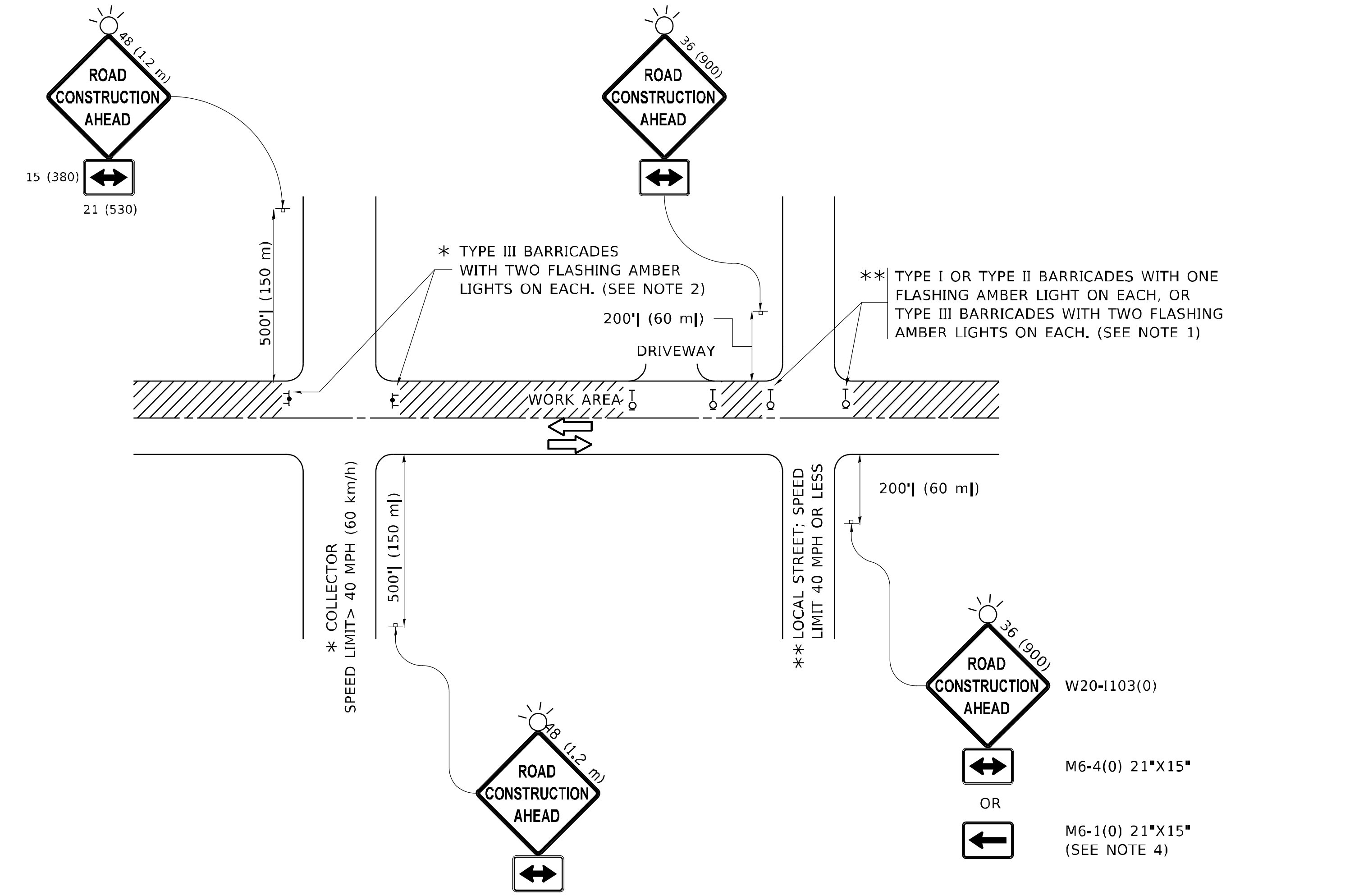
MODEL: Default
FILE NAME: pw:\\lldot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd\22x34\CADData\CADSheets\bd51.dgn

USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - K. SMITH 11-18-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CADD	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - S.E.B.	REVISED -	
PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -	

BENCHING DETAIL
FOR EMBANKMENT WIDENING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	185
BD-51		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

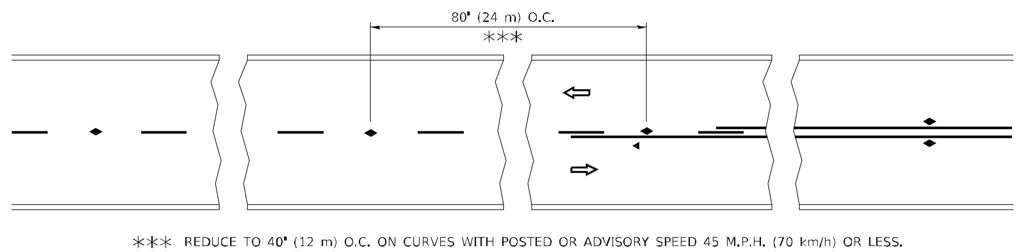
USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

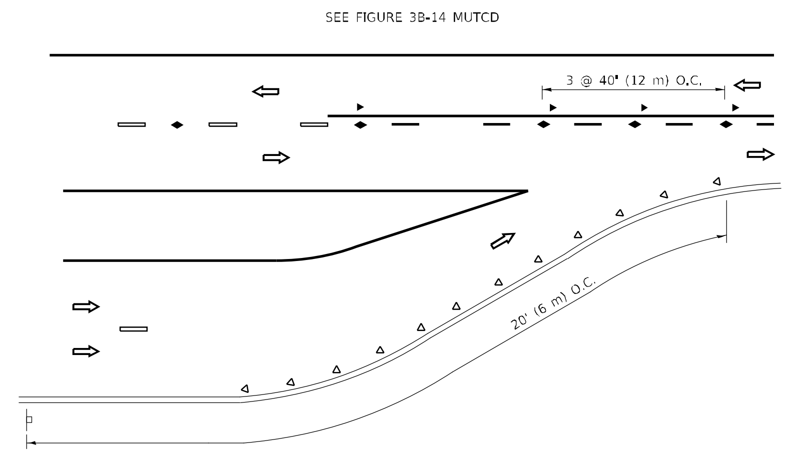
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

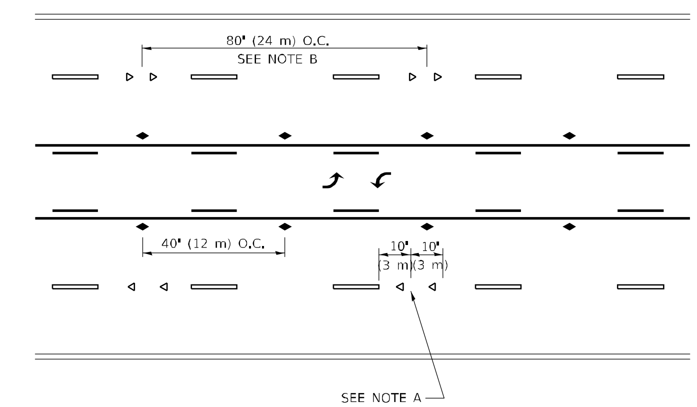
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	186
	TC-10	CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



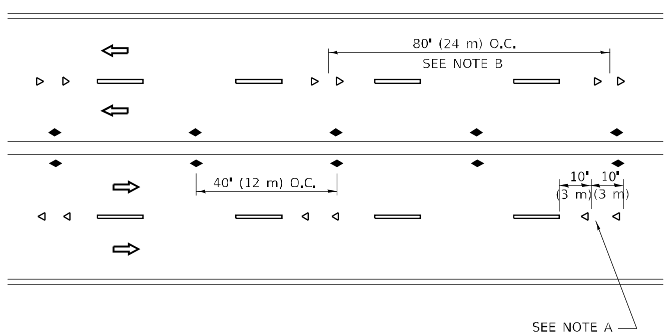
TWO–LANE/TWO–WAY



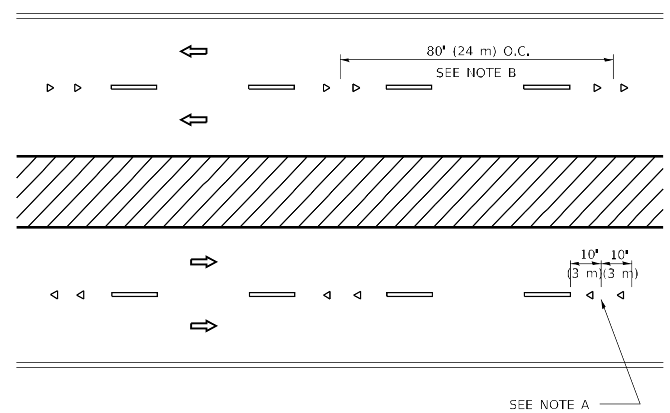
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

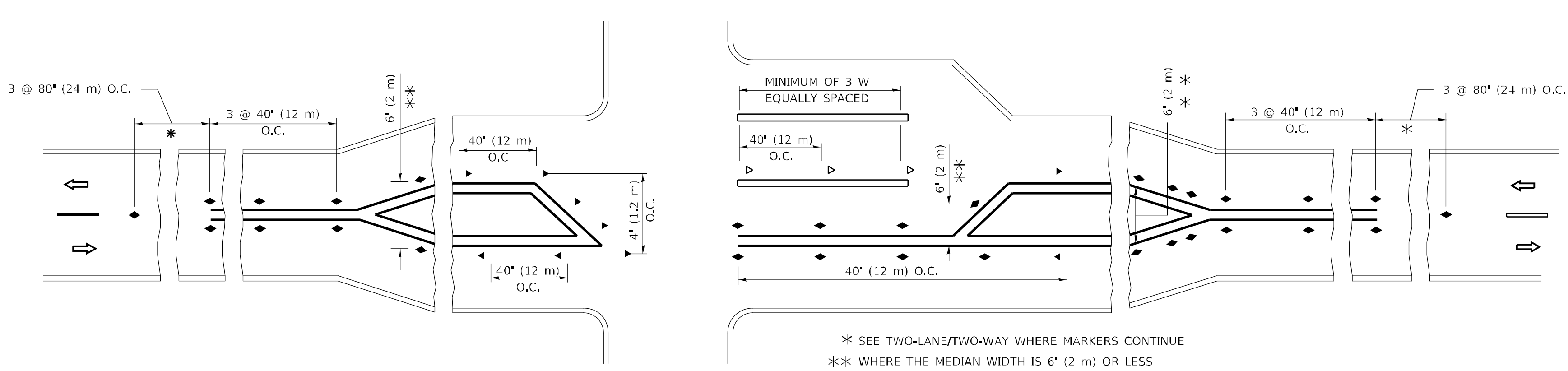
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

All dimensions are in inches (millimeters) unless otherwise shown.

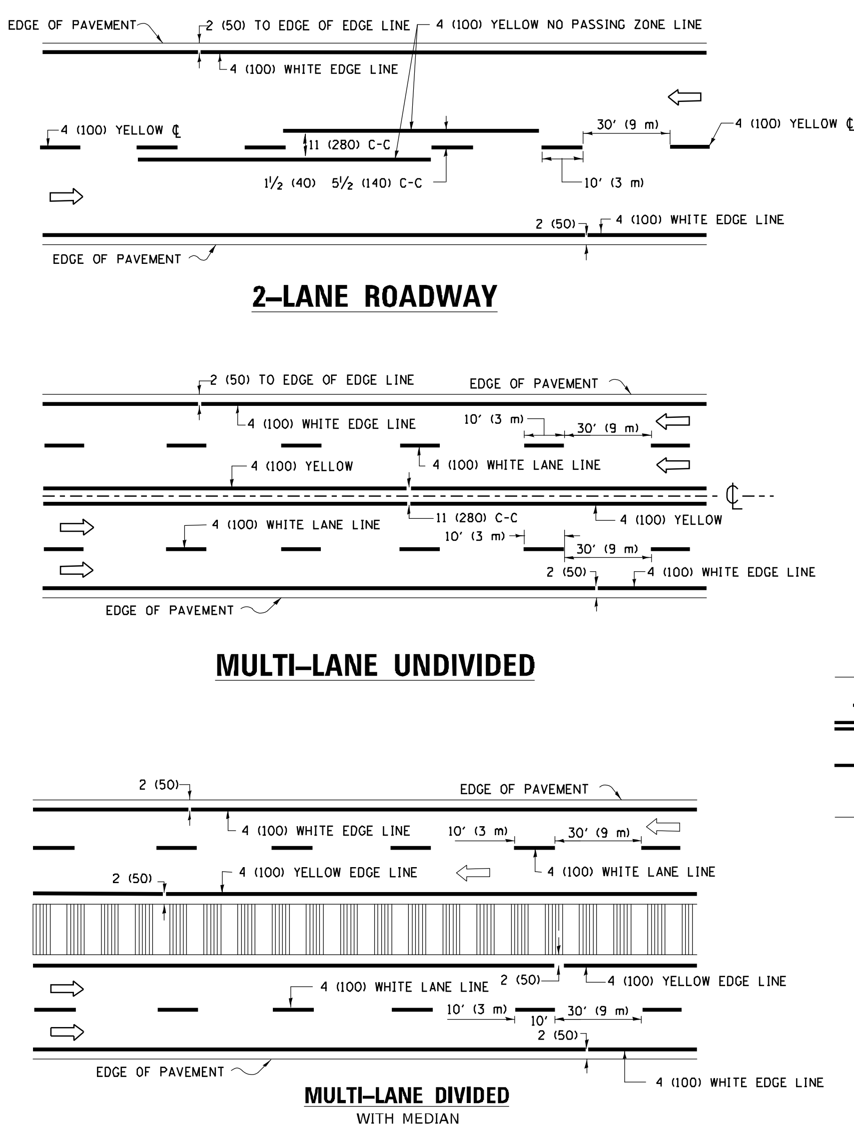
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13	

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	187
	TC-11	CONTRACT NO. 62L30		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1x1\0522x34\CADData\CADsheets\tc11.dgn



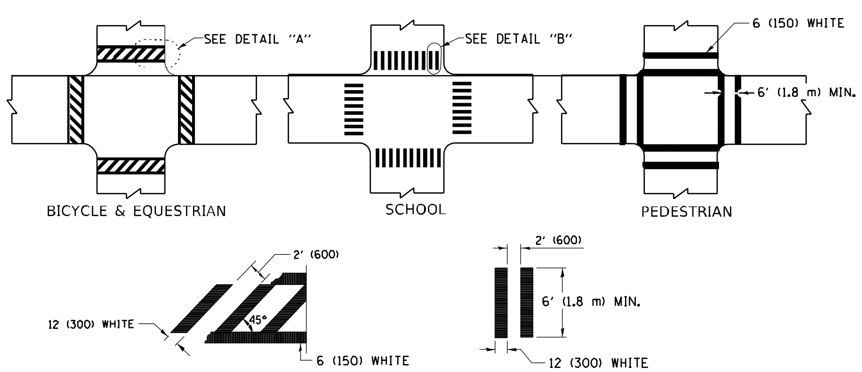
2-LANE ROADWAY

MULTI-LANE UNDIVIDED

MULTI-LANE DIVIDED

WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

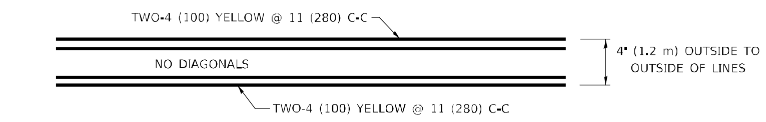


DETAIL "A"

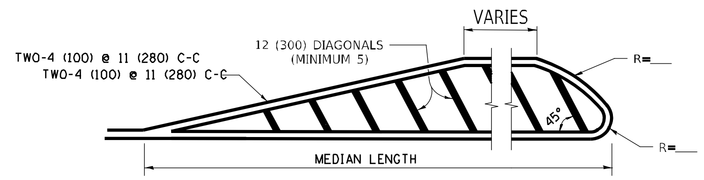
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



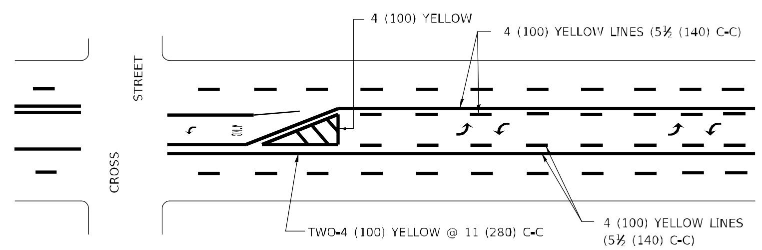
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

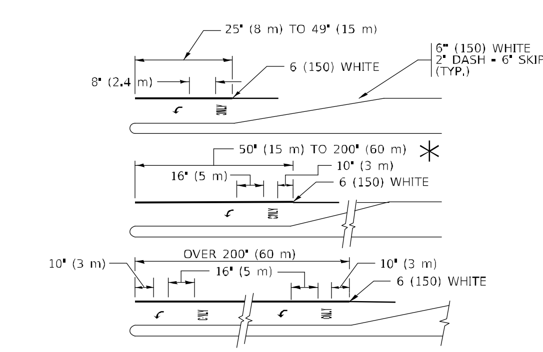
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

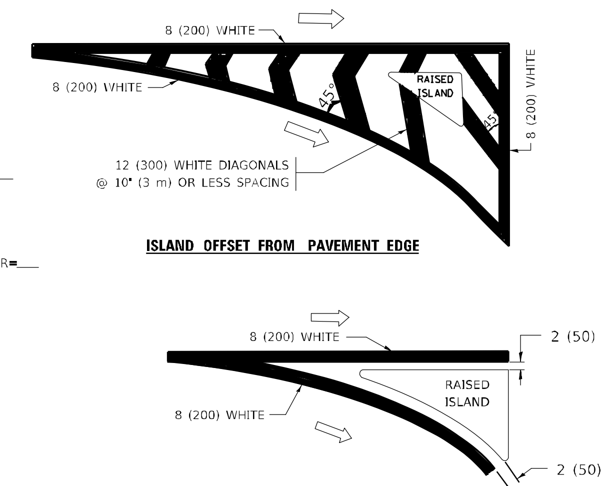


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

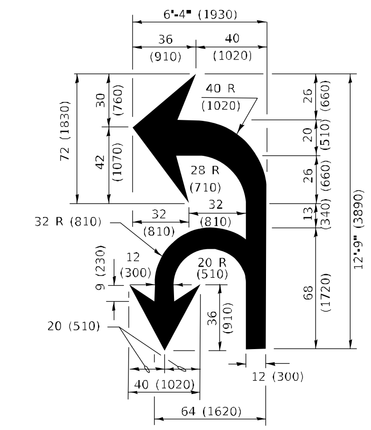
TYPICAL TURN LANE MARKING



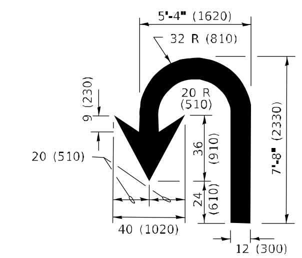
ISLAND OFFSET FROM PAVEMENT EDGE

ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

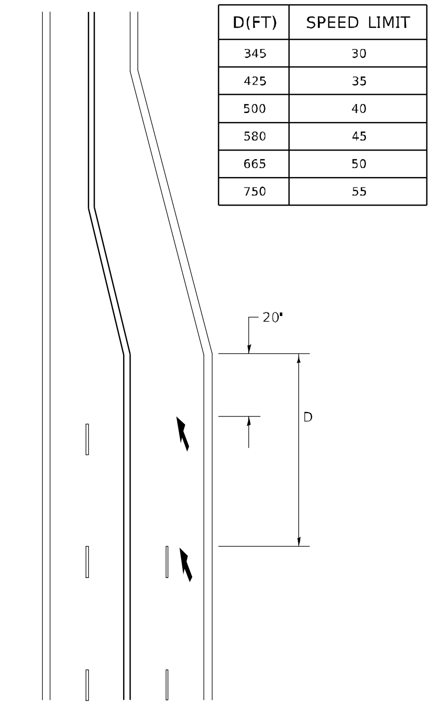


COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55



LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	188

TC-13 | CONTRACT NO. 62L30

ILLINOIS FED. AID PROJECT

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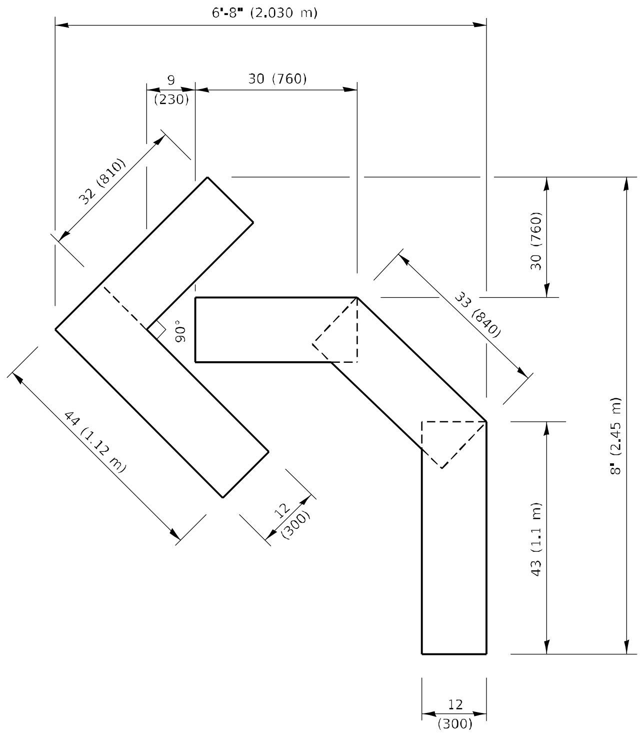
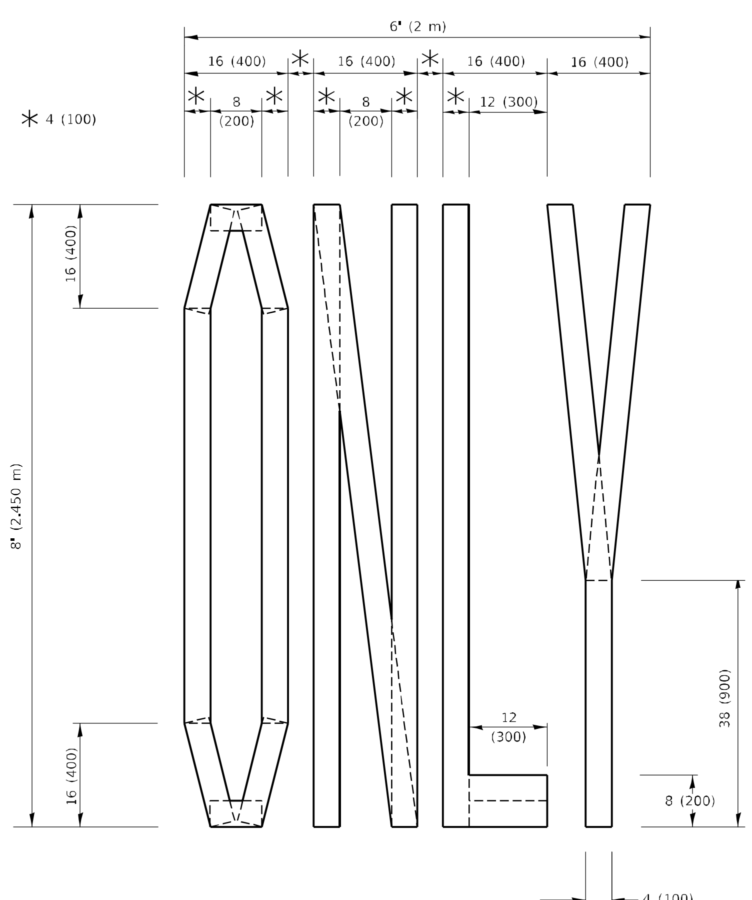


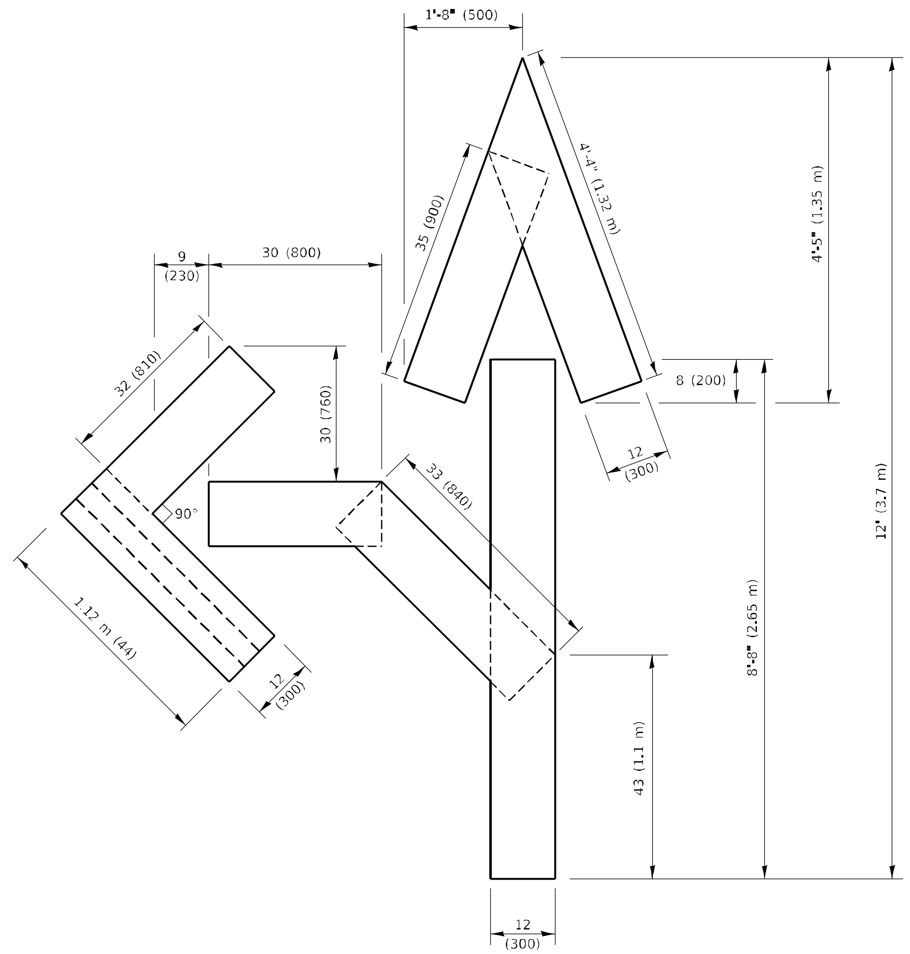
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

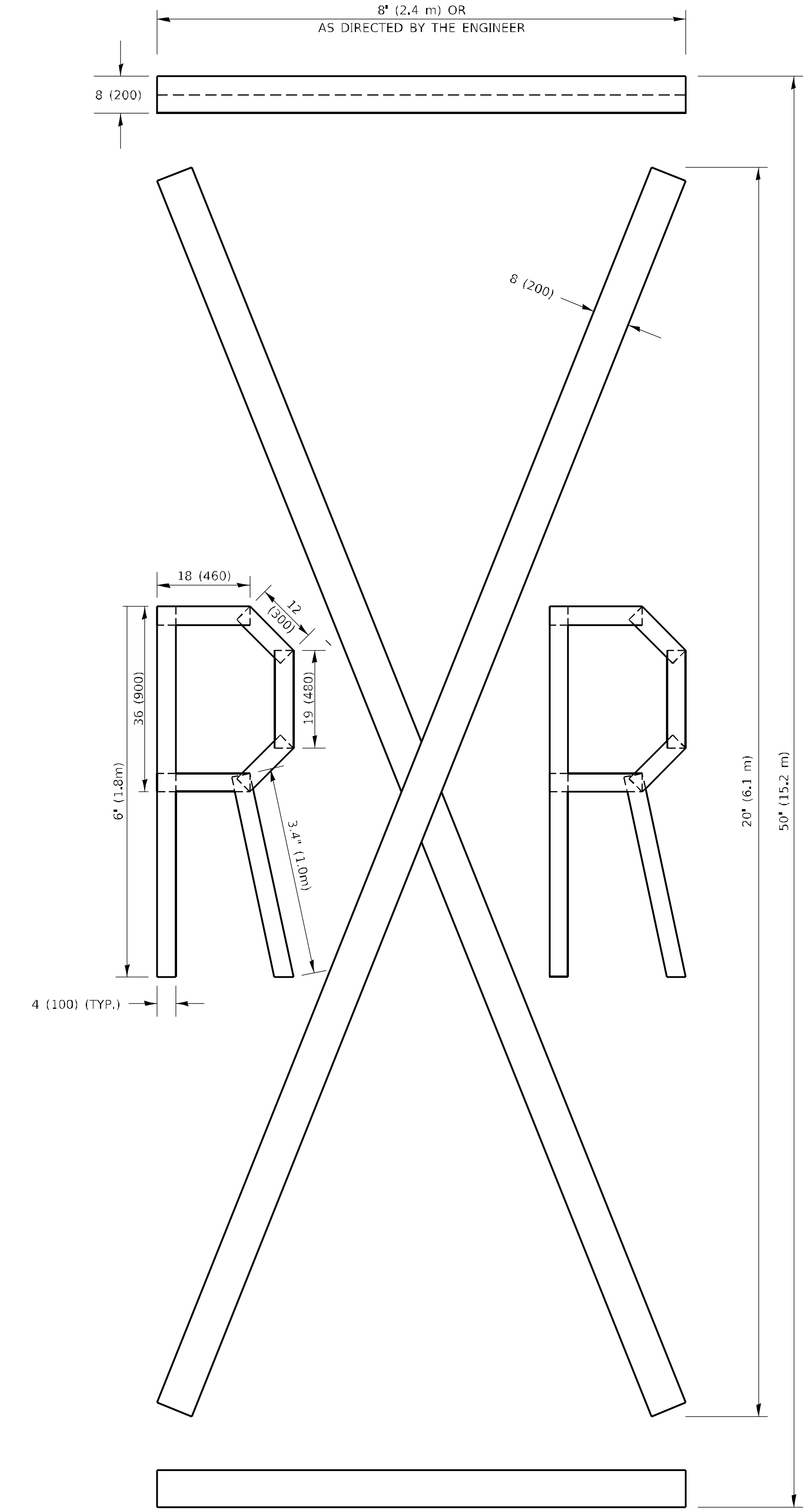


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



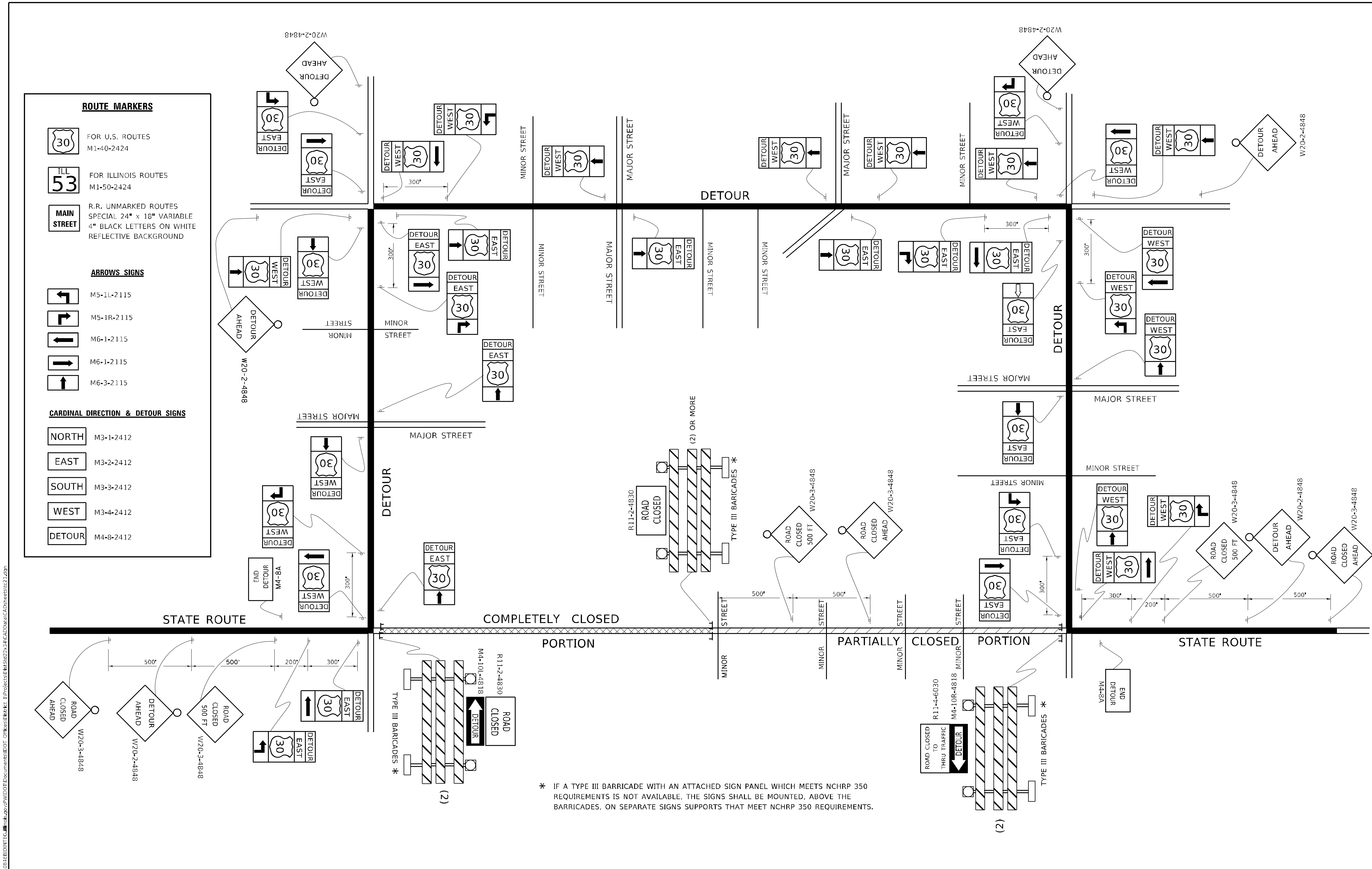
QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footem]	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
	DRAWN -	REVISED - E. GOMEZ 08-28-00		
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00		
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	189
TC-16		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footem]	DESIGNED -	REVISED - 10-18-02	
	DRAWN	REVISED - R. BORO 09-14-09	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	190
TC-21		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		

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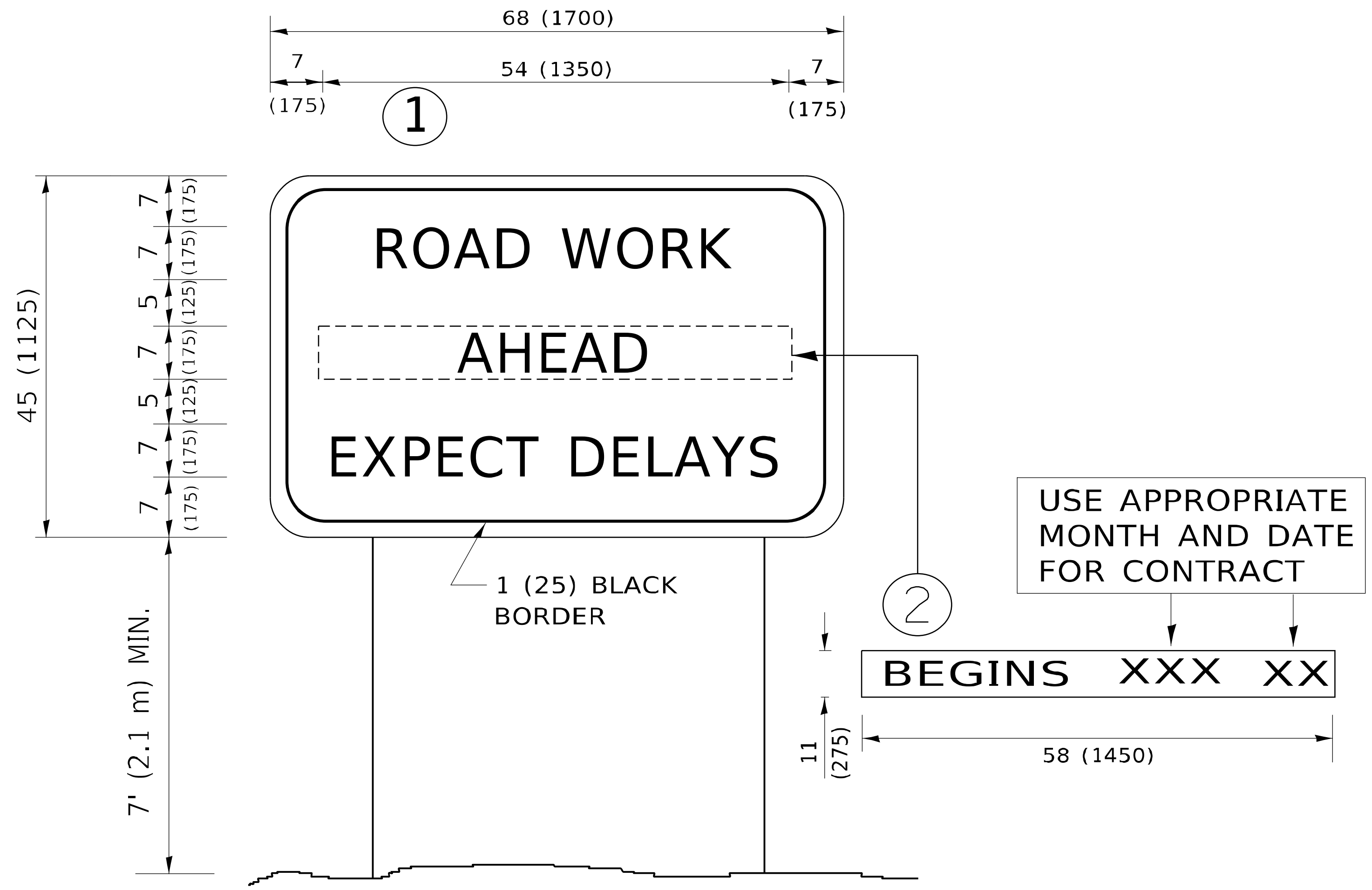


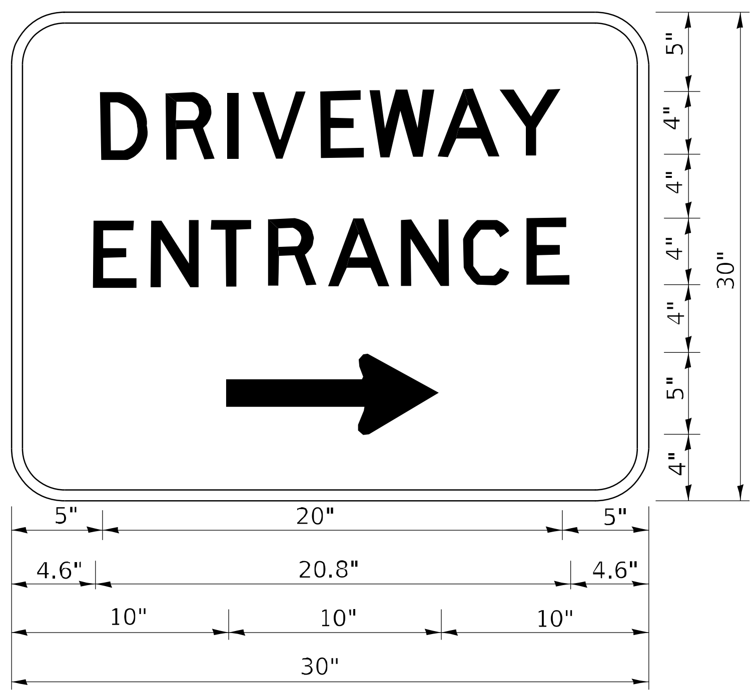
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

USER NAME = footem	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	
	DRAWN -	REVISED - R. MIRS 12-11-97			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	191
TC-22		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

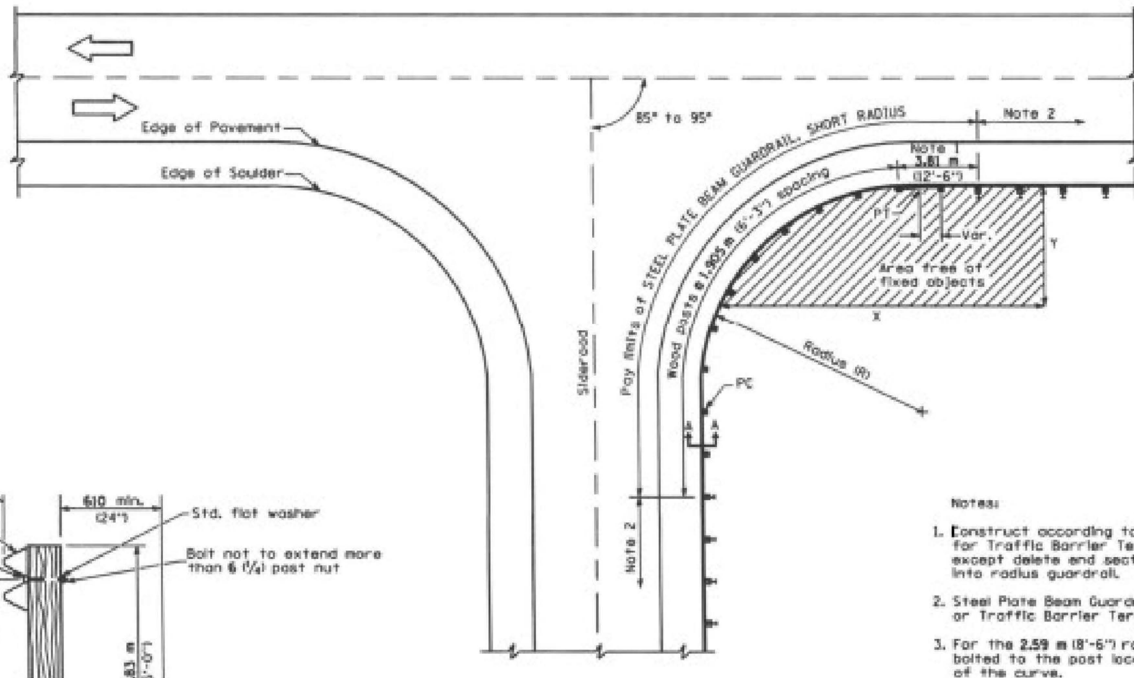
USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

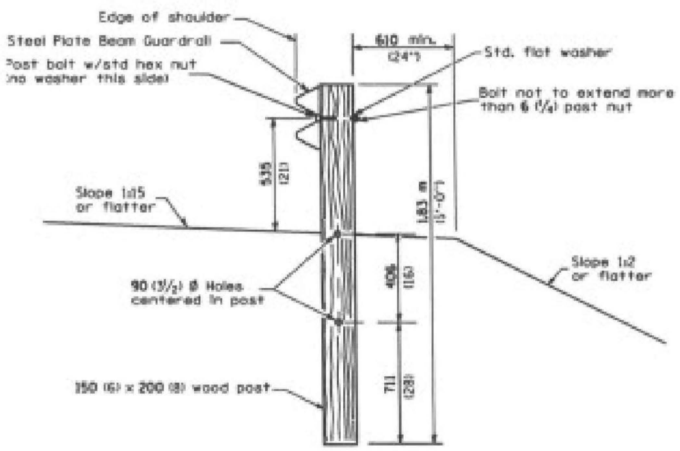
DRIVEWAY ENTRANCE SIGNING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	192
	TC-26	CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (Note 3)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')

STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS

Notes:

1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
3. For the 2.59 m (8'-6") radius, the rail is not bolted to the post located at the midpoint of the curve.

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St, #2520, Chicago, IL 60603

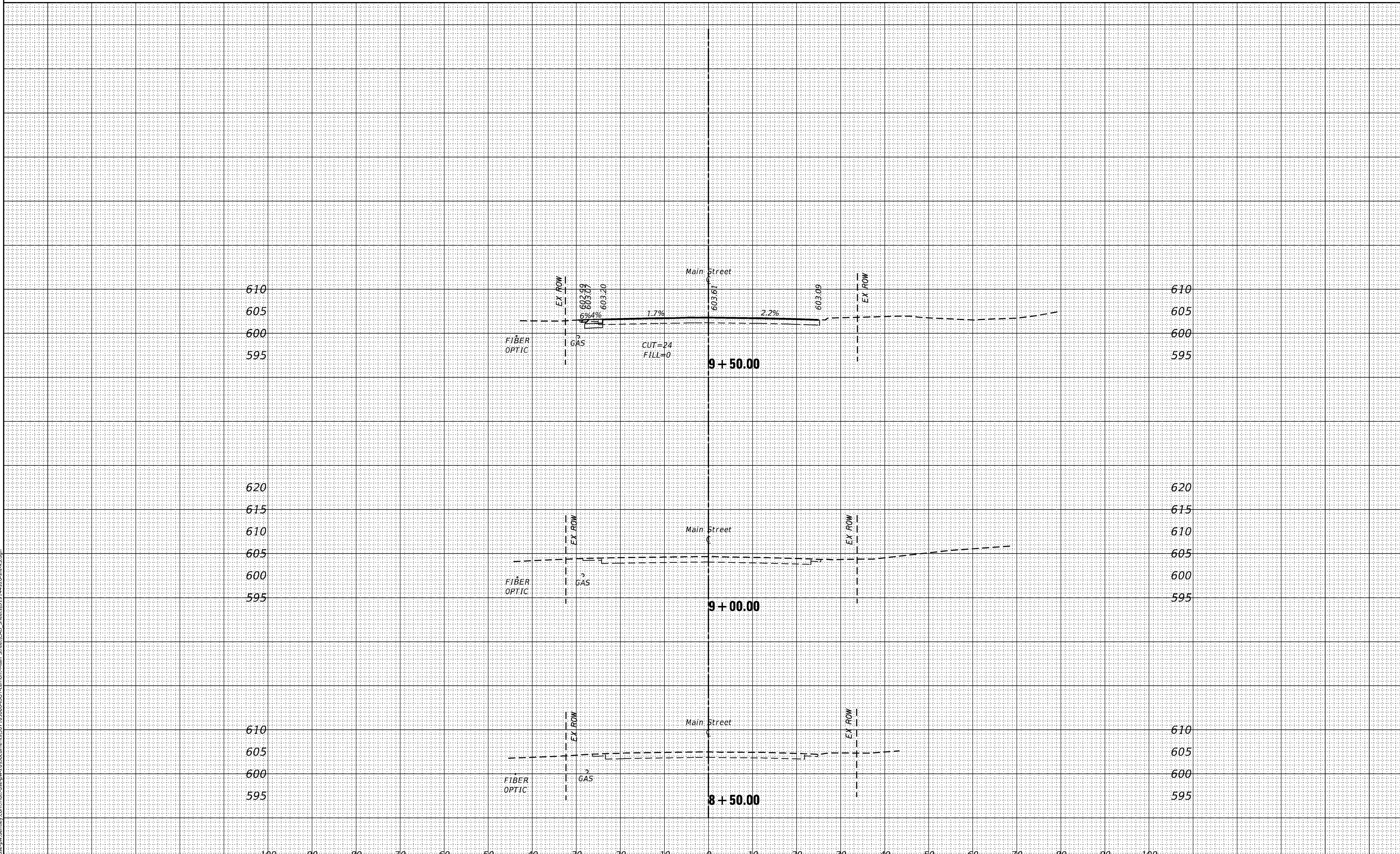
USER NAME = lso-user201	DESIGNED - MY	REVISED -	
	DRAWN - MY	REVISED -	
PLOT SCALE = 24.0000 ' / ft.	CHECKED - SJP	REVISED -	
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
MISCELLANEOUS DETAILS

SCALE: | SHEET MD-01 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	193
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED		
NO.			

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED		
NO.			

MODEL: Default
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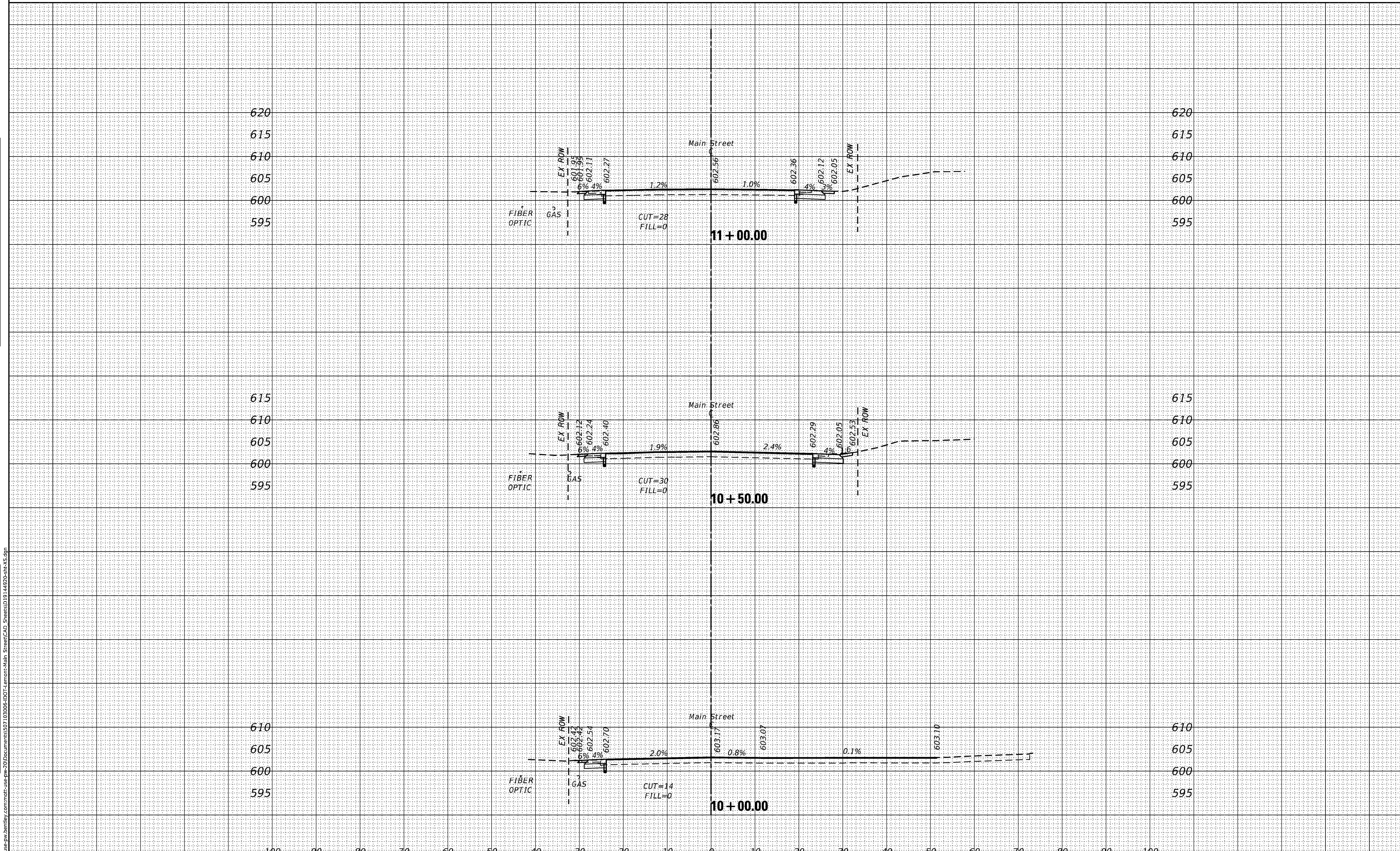
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -
		DRAWN - SJP	REVISED -
	PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10'	SHEET CS-01 OF CS-106 SHEETS	STA. 8+50.00	TO STA. 9+59.50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	194
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - SJP	REVISED -
PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

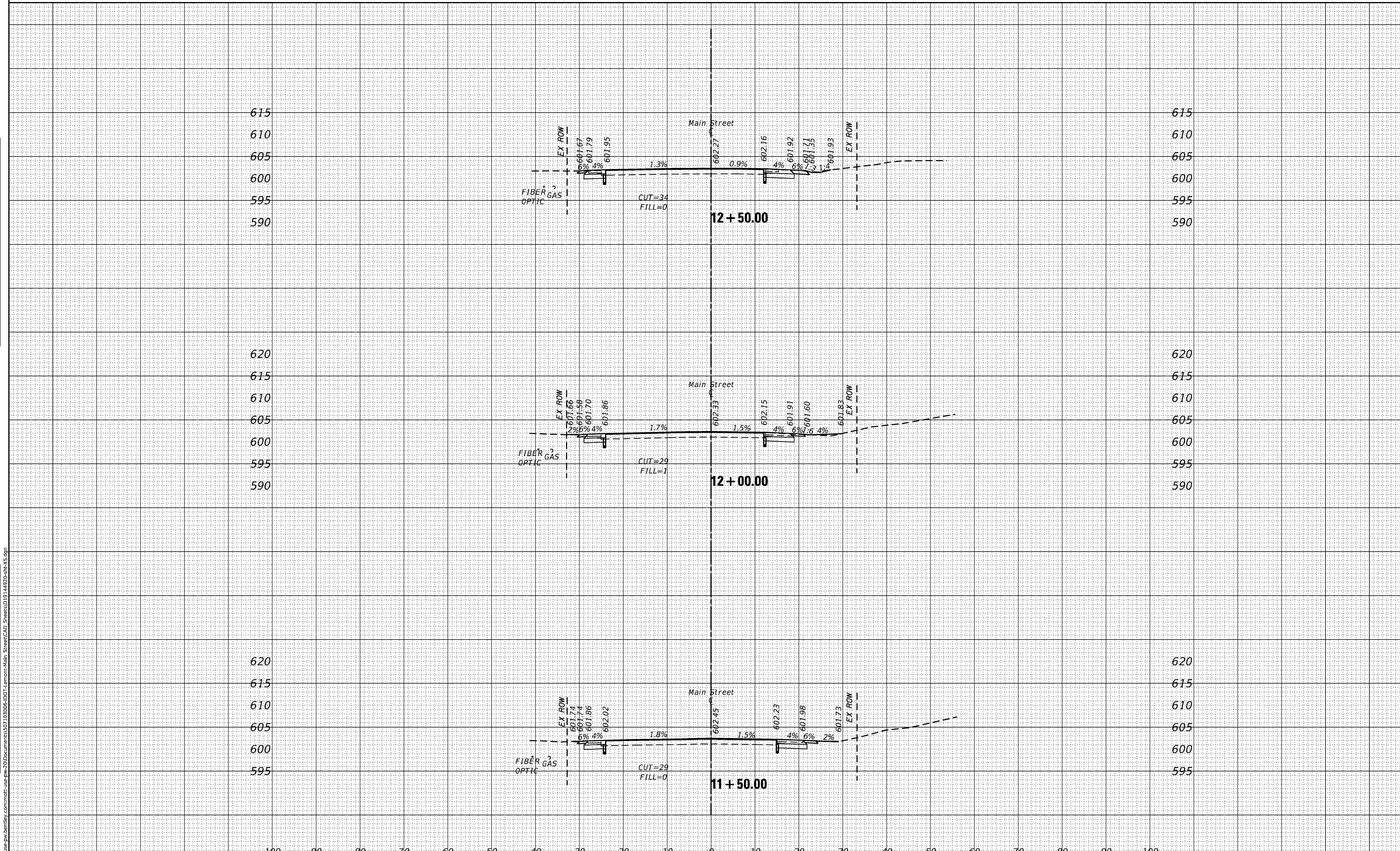
MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-02 OF CS-106 SHEETS | STA. 10+00.00 TO STA. 11+00.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	195

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED		

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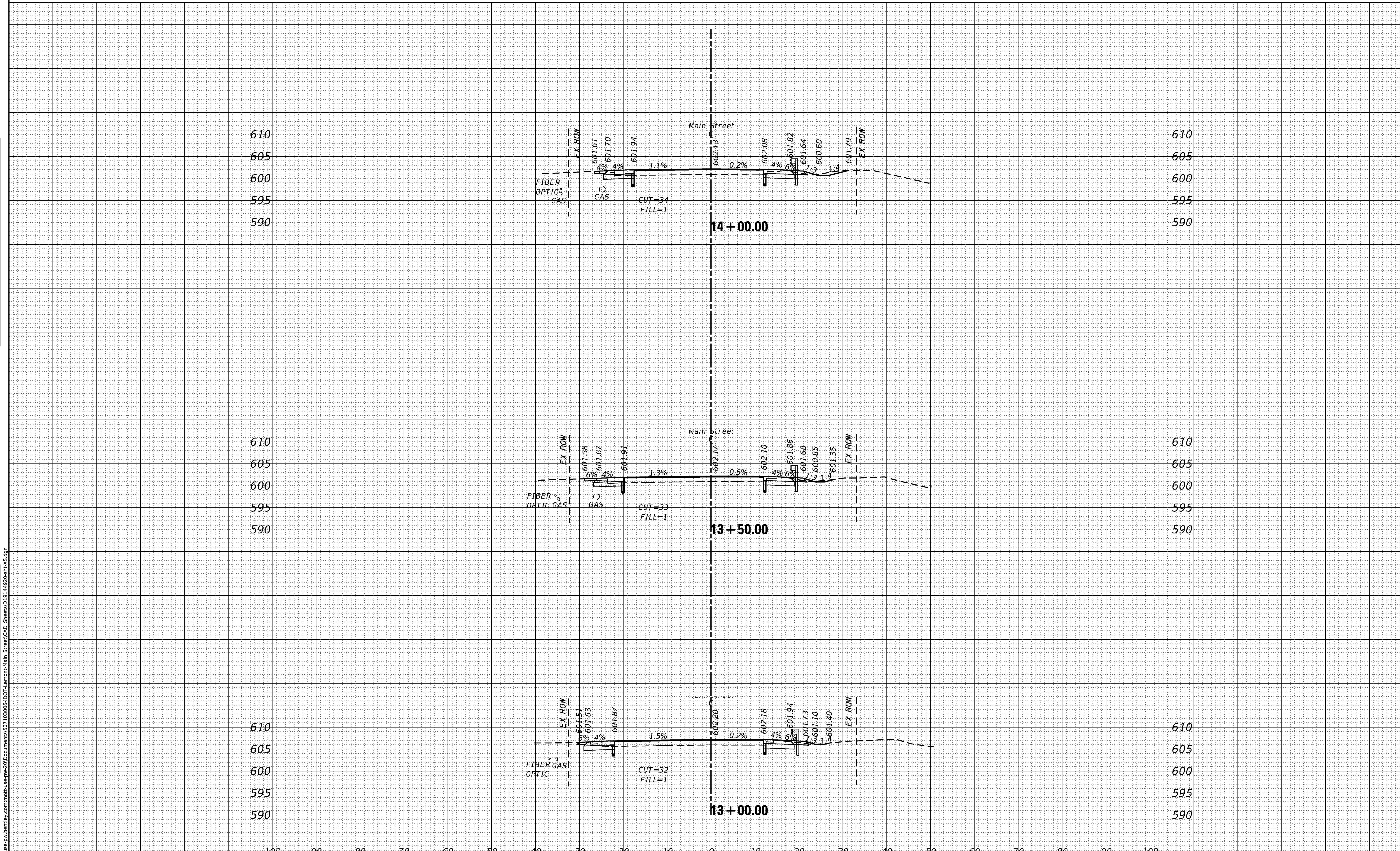
MOTT MACDONALD 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -
		DRAWN - SJP	REVISED -
	PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-03 OF CS-106 SHEETS | STA. 11+50.00 TO STA. 12+50.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	196
		CONTRACT NO. 62L30		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	NOTE BOOK NO.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

ORIGINAL SURVEY	NOTE BOOK NO.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

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MOTT MACDONALD, 10 S LaSalle St. #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -
		DRAWN - SJP	REVISED -
	PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
	PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

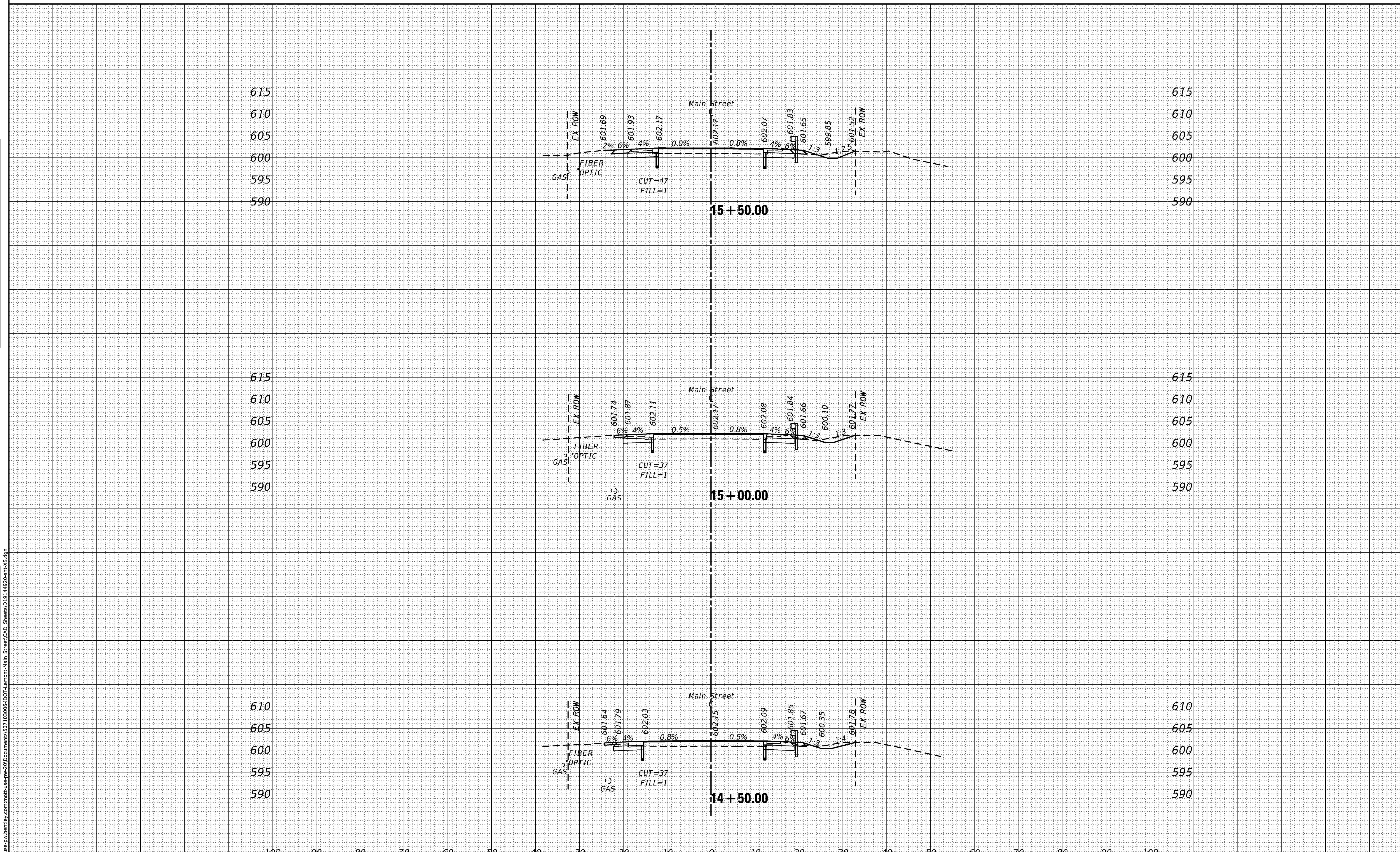
MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-04 OF CS-106 SHEETS | STA. 13+00.00 TO STA. 14+00.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	197

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

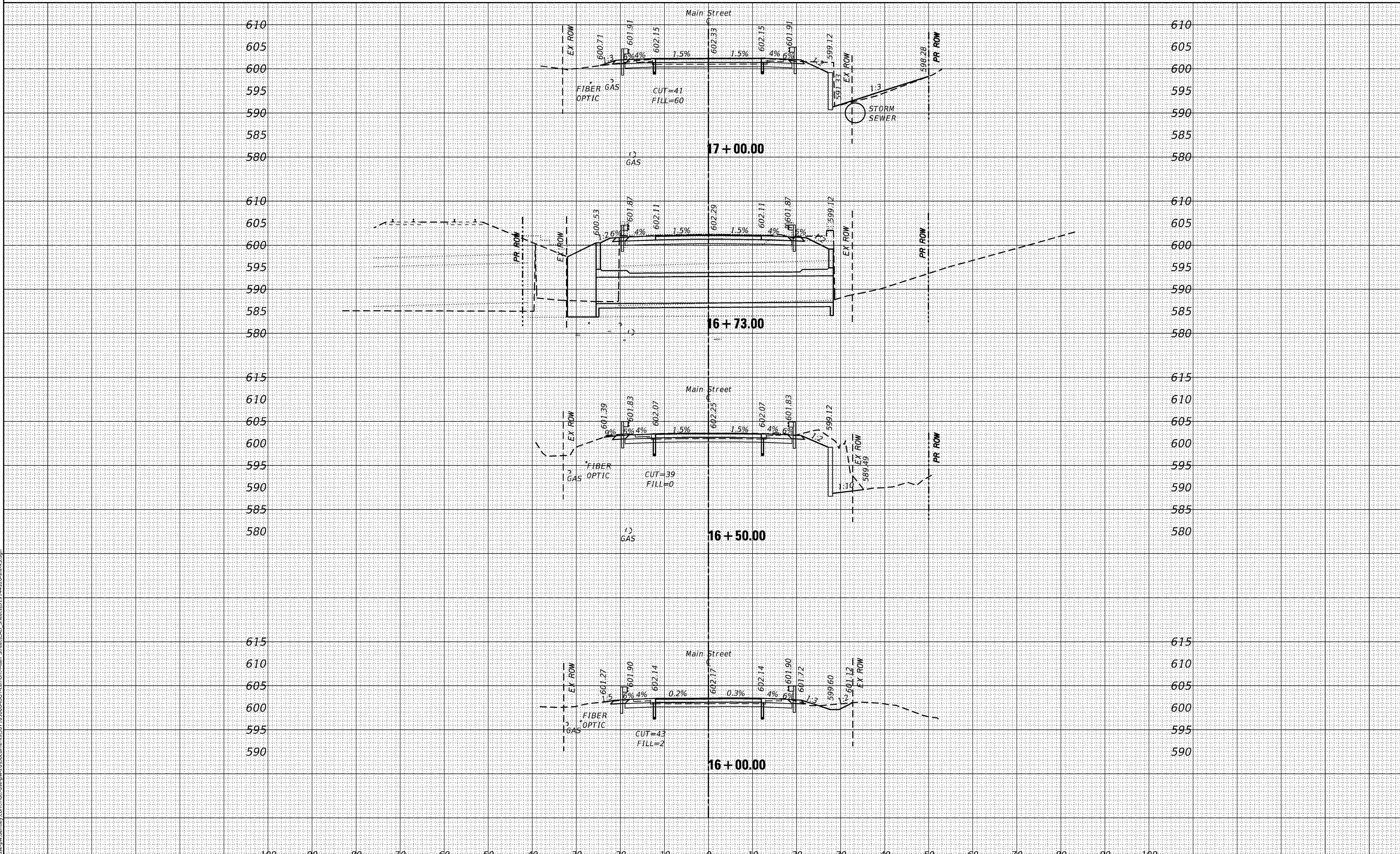
USER NAME = iso-user201	DESIGNED - SJP	REVISED -	
	DRAWN - SJP	REVISED -	
PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -	
PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-05 OF CS-106 SHEETS | STA. 14+50.00 TO STA. 15+50.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	198
		CONTRACT NO. 62L30		
	ILLINOIS FED. AID PROJECT			



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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - SJP	REVISED -
PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

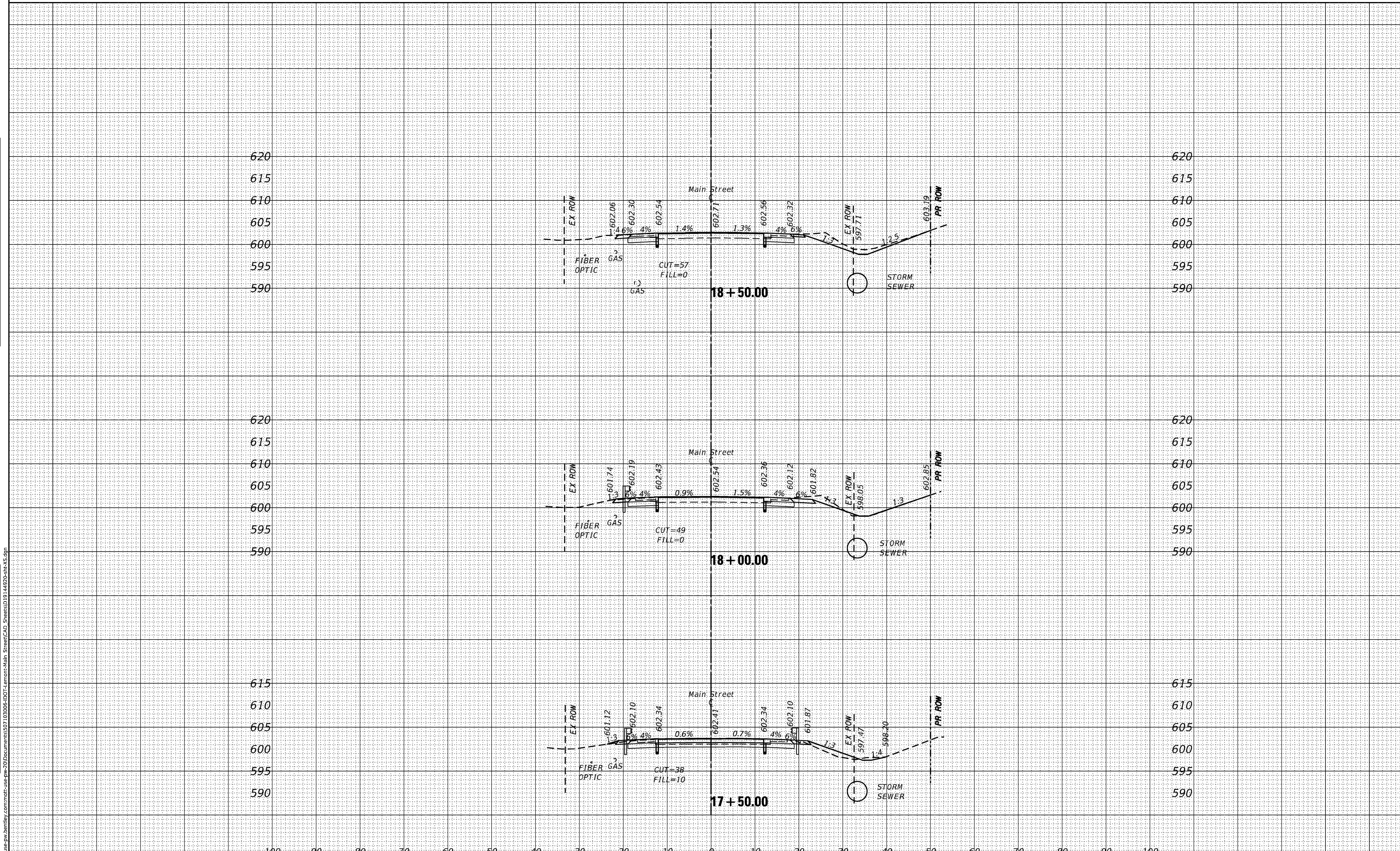
MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-06 OF CS-106 SHEETS | STA. 16+00.00 TO STA. 17+00.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	199

CONTRACT NO. 62L30

ILLINOIS | FED. AID PROJECT



FINAL SURVEY	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED
BY	
DATE	

ORIGINAL SURVEY	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED
BY	
DATE	

MODEL: Default
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MOTT MACDONALD
10 S LaSalle St. #2520, Chicago, IL 60603

USER NAME = iso-user201	DESIGNED - SJP	REVISED -
	DRAWN - SJP	REVISED -
PLOT SCALE = 240.0000 ' / ft.	CHECKED - KWB	REVISED -
PLOT DATE = 1/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83
CROSS SECTIONS

SCALE: 1"=10' | SHEET CS-07 OF CS-106 SHEETS | STA. 17+50.00 TO STA. 18+50.00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	200
		CONTRACT NO. 62L30		
	ILLINOIS	FED. AID PROJECT		