

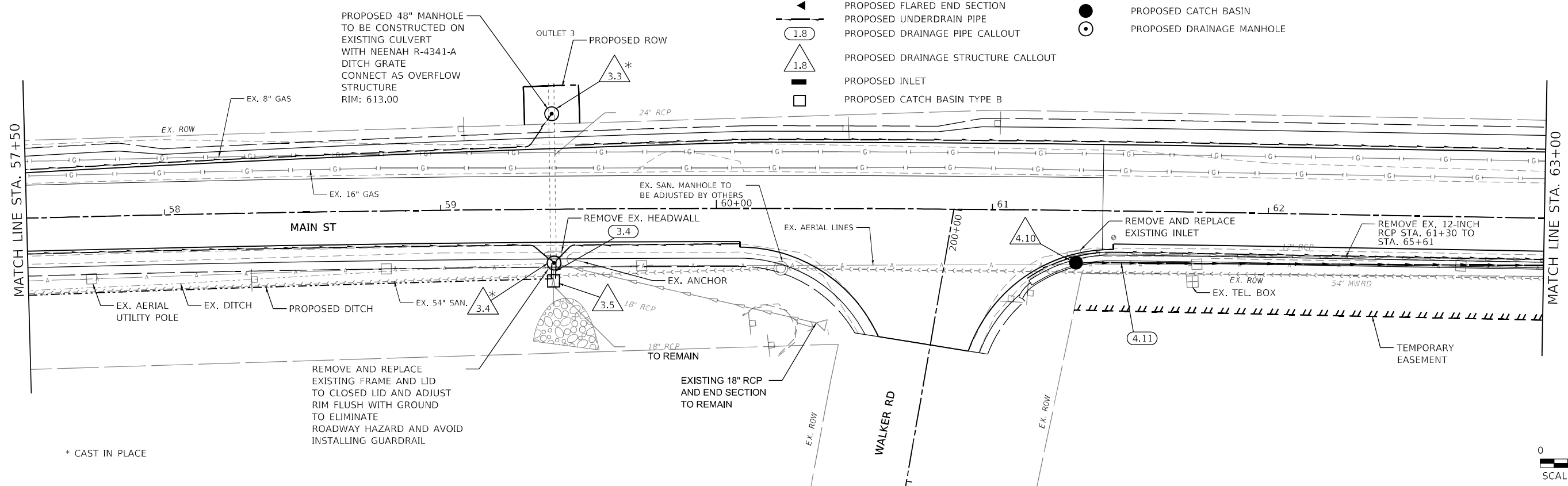
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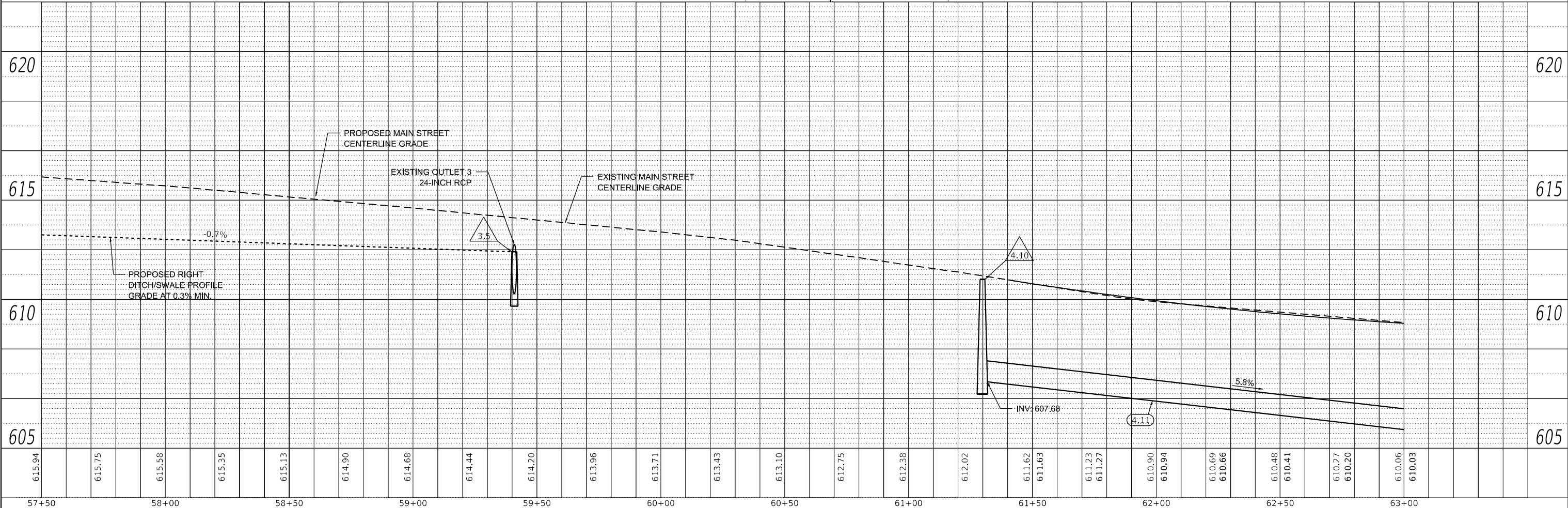
- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE



\* CAST IN PLACE

REMOVE AND REPLACE EXISTING FRAME AND LID TO CLOSED LID AND ADJUST RIM FLUSH WITH GROUND TO ELIMINATE ROADWAY HAZARD AND AVOID INSTALLING GUARDRAIL

EXISTING 18" RCP AND END SECTION TO REMAIN

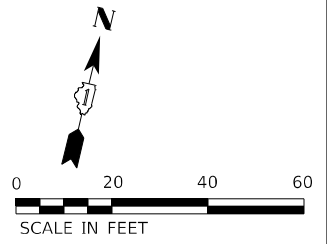
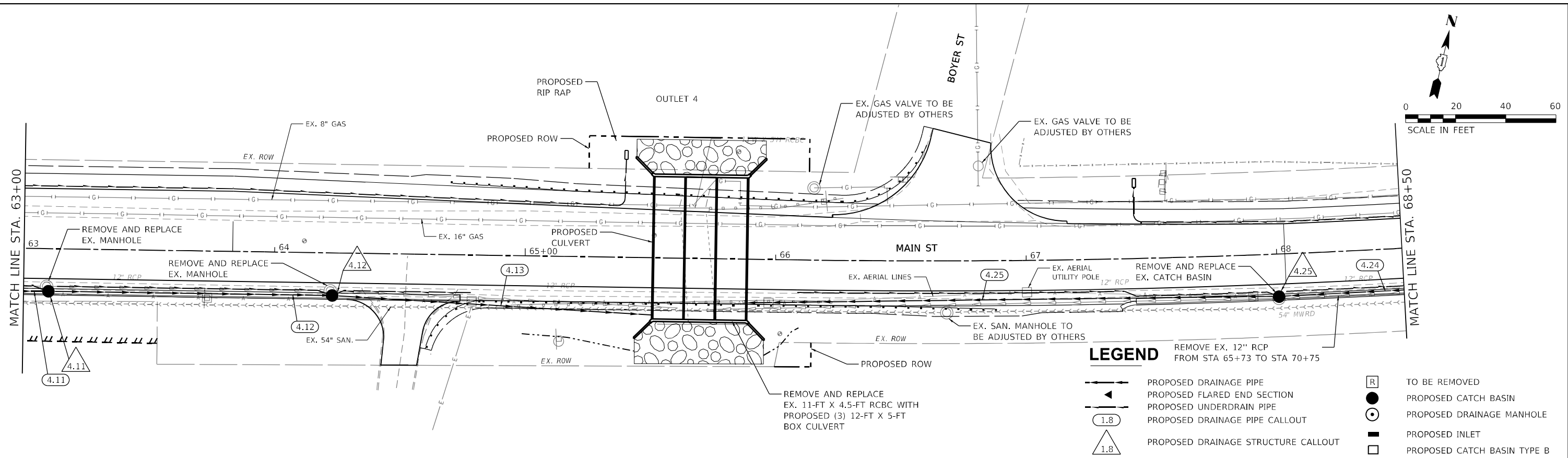


<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>		F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 101
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -		SCALE: 1"=20'	SHEET DR-10 OF DR-29 SHEETS	STA. 57+50 TO STA. 63+00	CONTRACT NO. 62L30		ILLINOIS FED. AID PROJECT	
		PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -								

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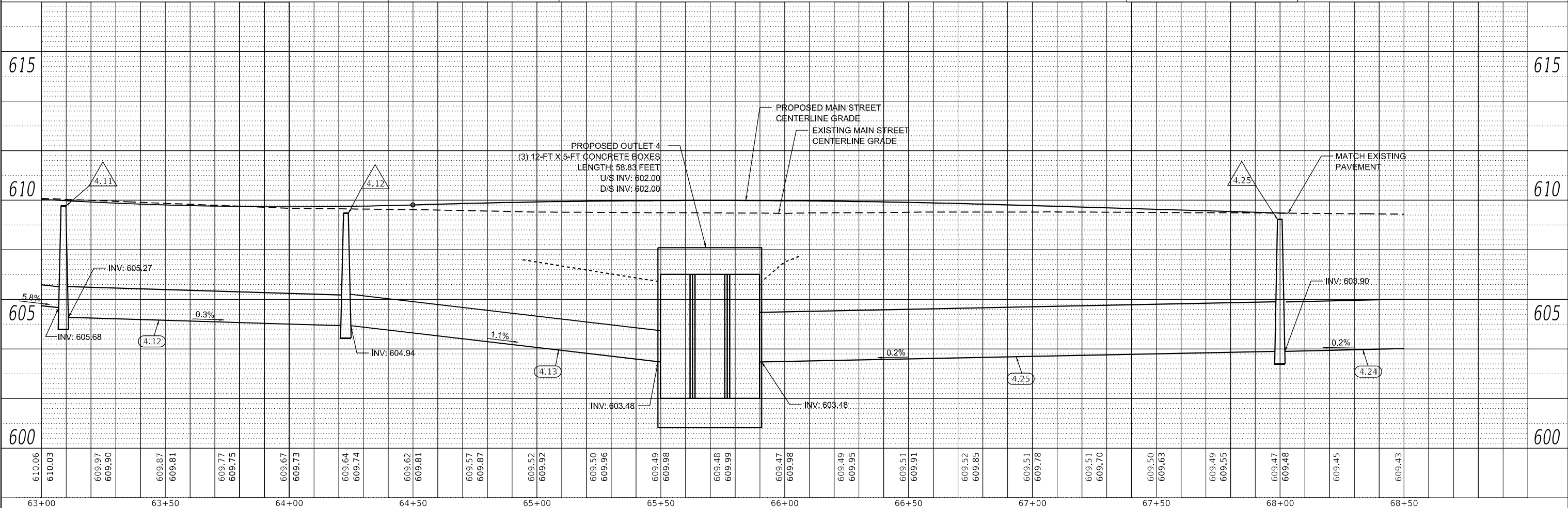


**LEGEND**

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	PROPOSED UNDERDRAIN PIPE		PROPOSED DRAINAGE MANHOLE
	PROPOSED DRAINAGE PIPE CALLOUT		PROPOSED INLET
	PROPOSED DRAINAGE STRUCTURE CALLOUT		PROPOSED CATCH BASIN TYPE B

REPLACE EXISTING STORM SEWERS  
STA. 61+30 TO STA. 65+61 (RT)

REPLACE EXISTING STORM SEWERS  
STA. 65+72 TO STA. 70+75 (RT)



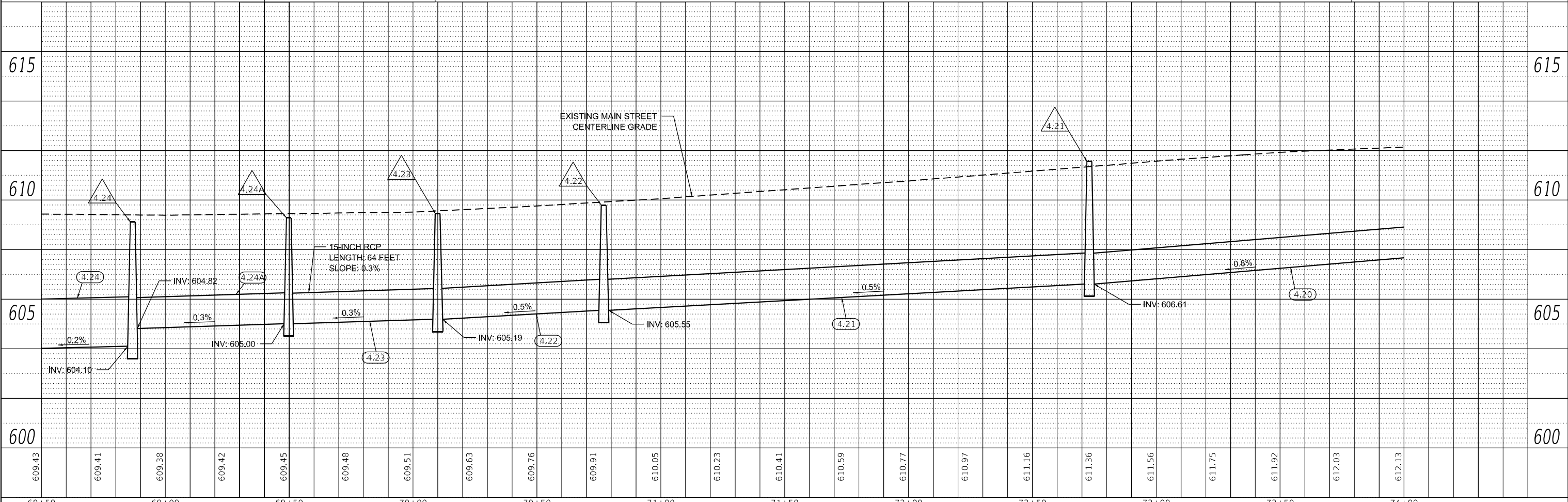
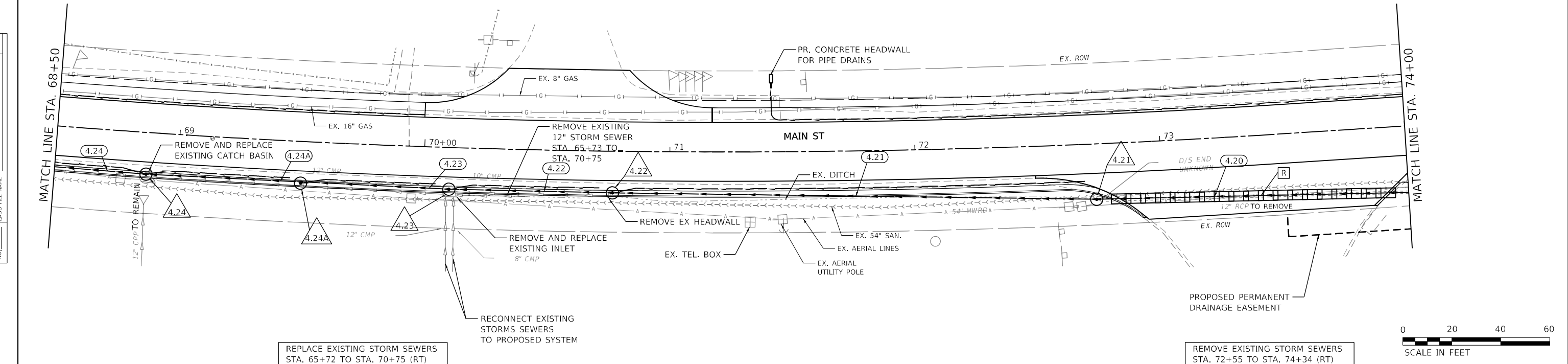
<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 102
	PLOT SCALE = 480,000' / ft. PLOT DATE = 1/26/2026		SCALE: 1"=20' SHEET DR-11 OF DR-29SHEETS STA. 63+00 TO STA. 68+50			ILLINOIS FED. AID PROJECT	

**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B

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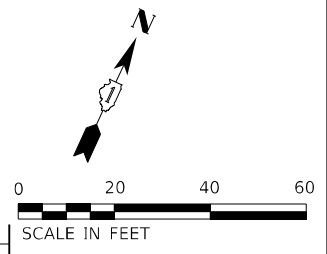
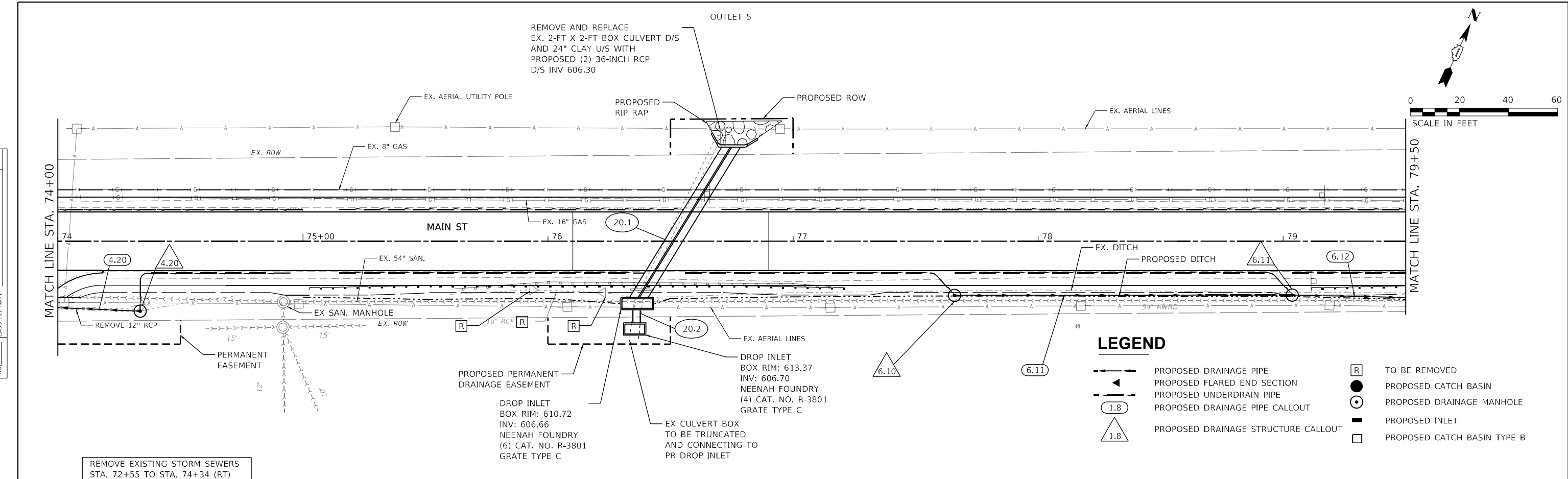
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	10 S LaSalle St., 25th Fl., Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 103
	PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -	REVISED -			SCALE: 1"=20'	SHEET DR-12 OF DR-29SHEETS	STA. 68+50 TO STA. 74+00	CONTRACT NO. 62L30	
PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -	REVISED -	REVISED -							

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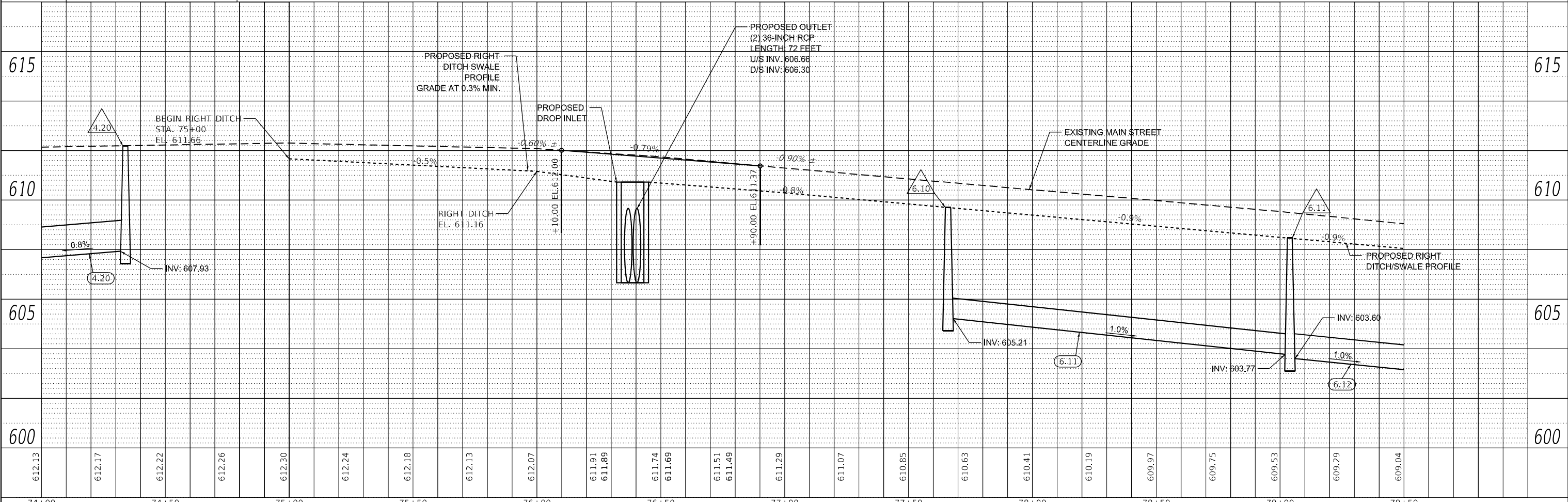
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**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B

REMOVE EXISTING STORM SEWERS  
STA. 72+55 TO STA. 74+34 (RT)

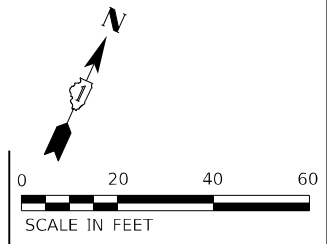
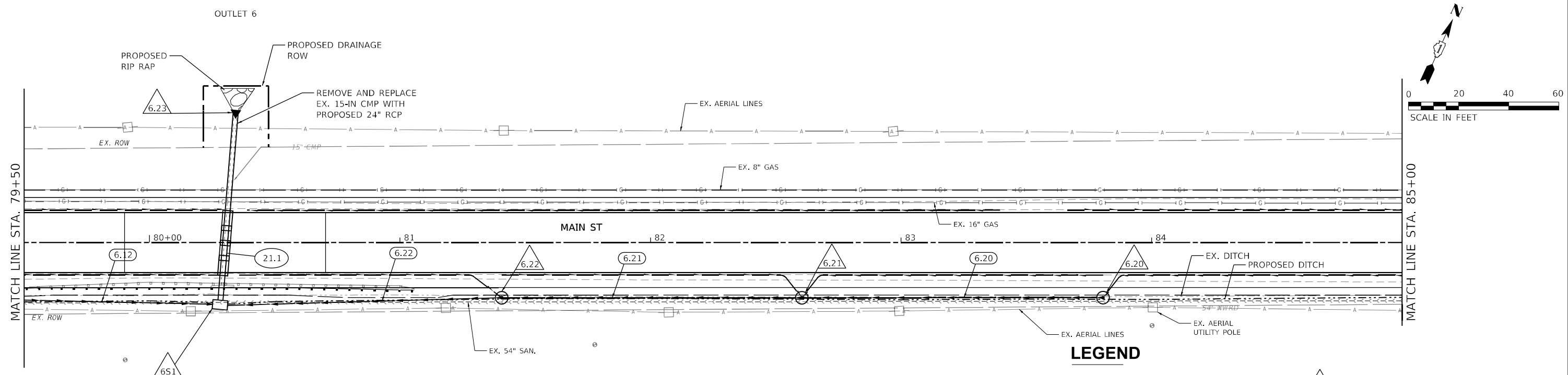


<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET FROM WHEELER DRIVE TO IL 83 DRAINAGE AND UTILITY PLAN AND PROFILE		F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 104
	PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -	REVISED -		SCALE: 1"=20'	SHEET DR-13 OF DR-29SHEETS	STA. 74+00 TO STA. 79+50	CONTRACT NO. 62L30			
	PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT						

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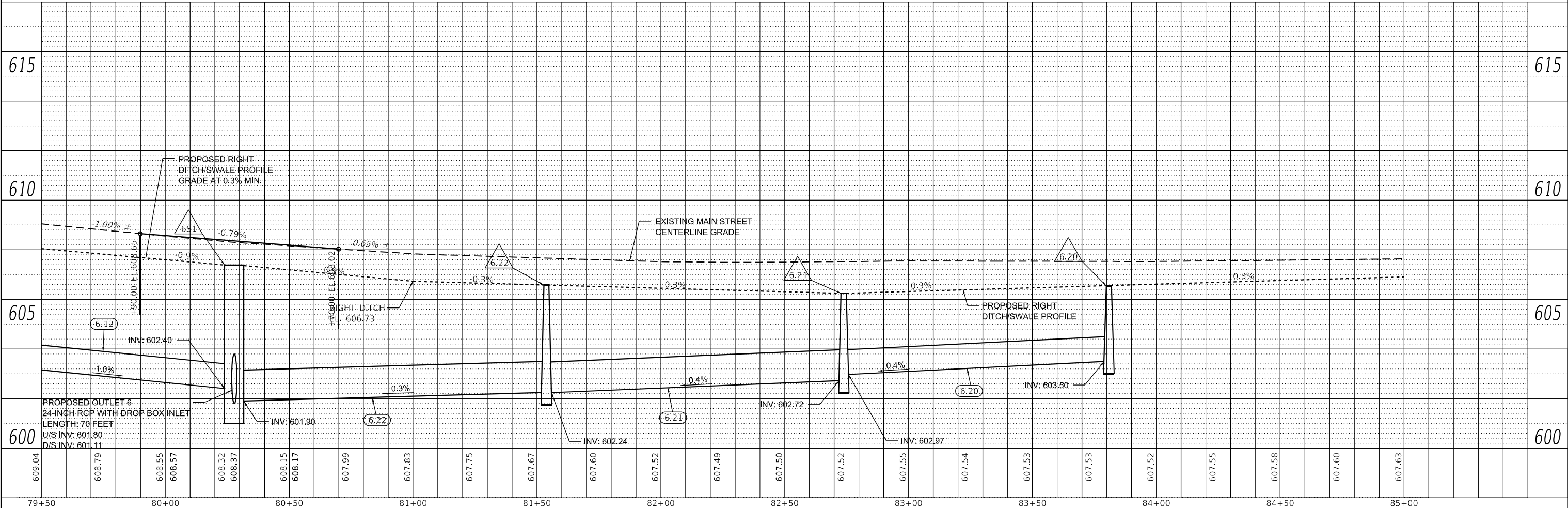
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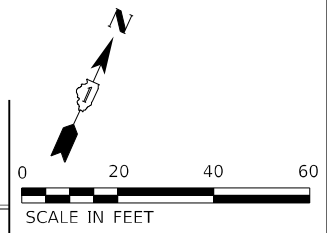
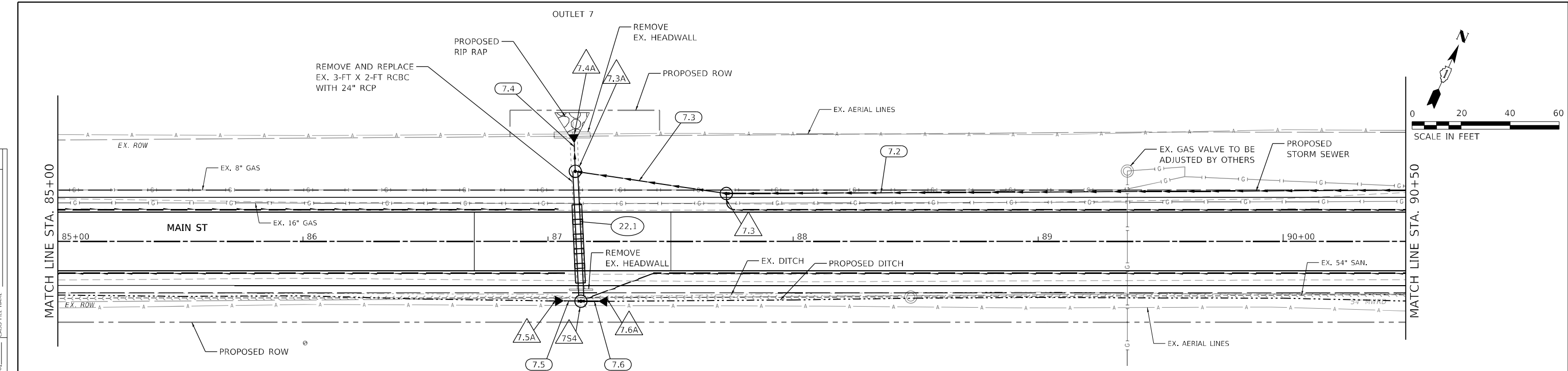
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- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>		F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 105
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -		SCALE: 1"=20'	SHEET DR-14 OF DR-29SHEETS	STA. 79+50 TO STA. 85+00	CONTRACT NO. 62L30		ILLINOIS FED. AID PROJECT	
		PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -								

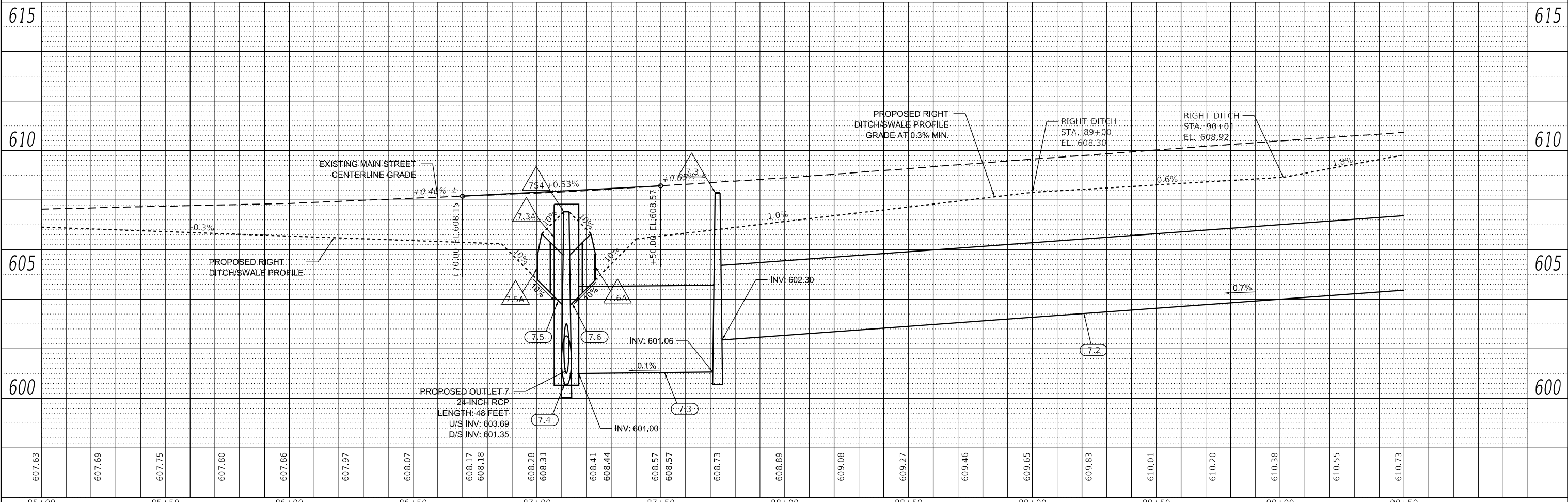
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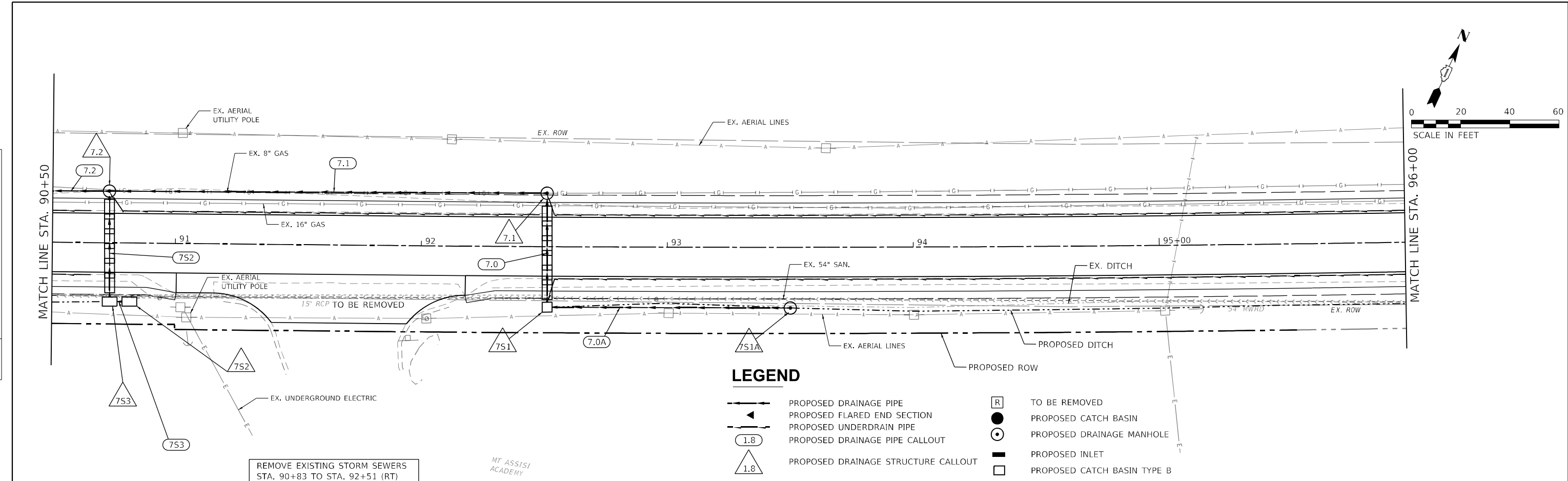
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- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 106
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -			CONTRACT NO. = 62L30	ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/26/2026		DATE = 04/11/2024	REVISED -	REVISED -	SCALE: 1"=20'	SHEET DR-15 OF DR-29 SHEETS	STA. 85+00	TO STA. 90+50			

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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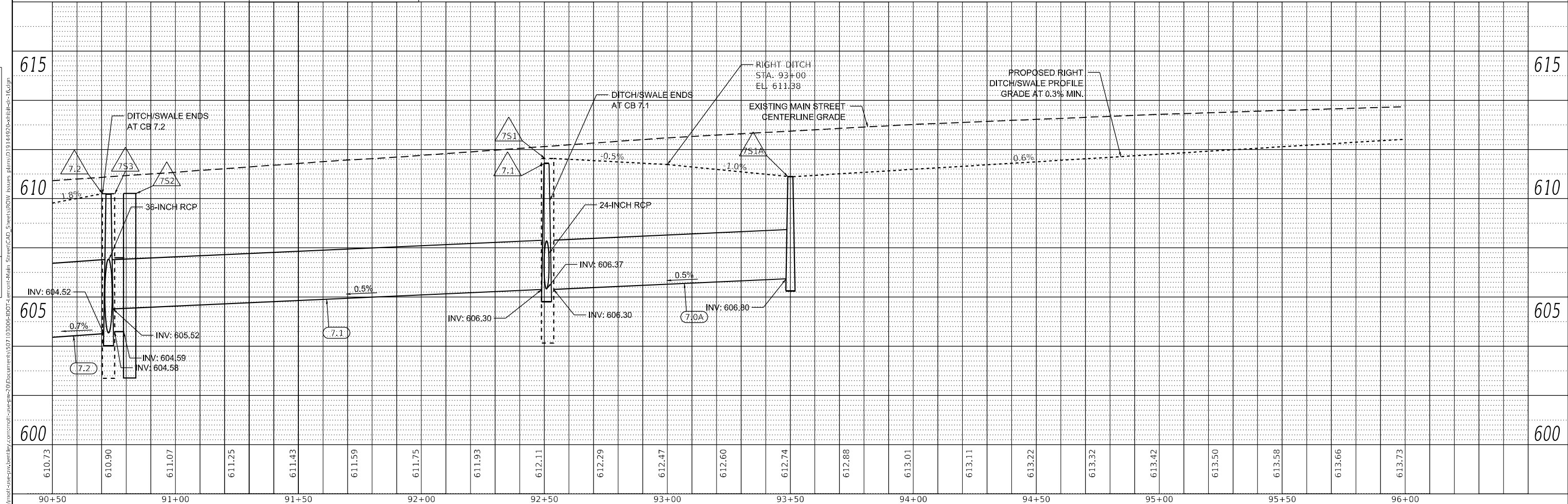


**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B

REMOVE EXISTING STORM SEWERS  
STA. 90+83 TO STA. 92+51 (RT)

MT ASSISI  
ACADEMY

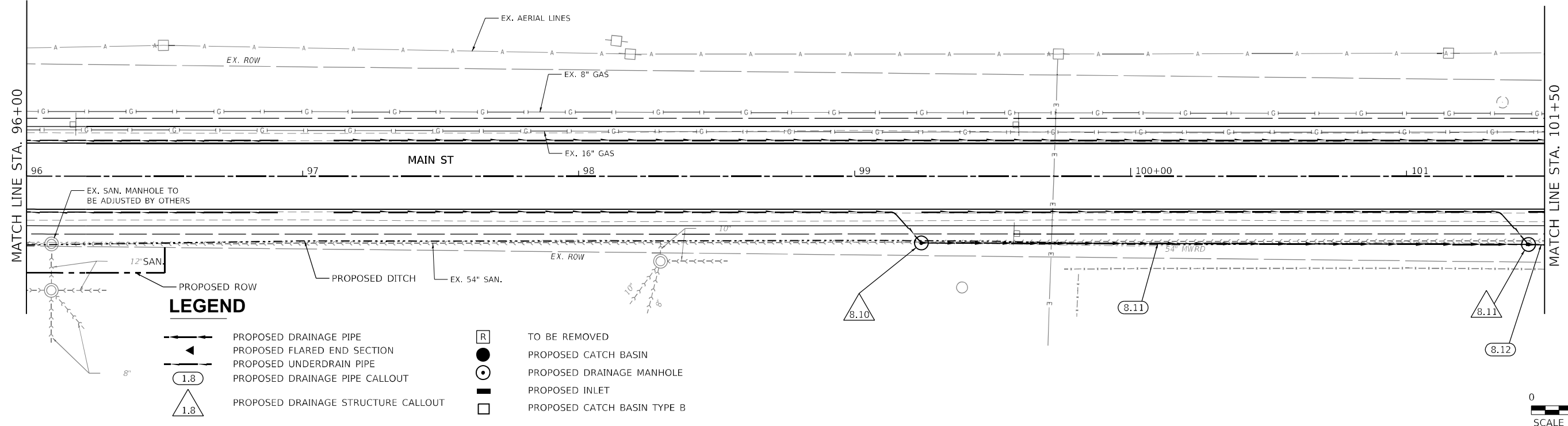


<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>		F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 107
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -		SCALE: 1"=20'	SHEET DR-16 OF DR-29SHEETS	STA. 90+50 TO STA. 96+00	CONTRACT NO. 62L30		ILLINOIS FED. AID PROJECT	
		PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -								

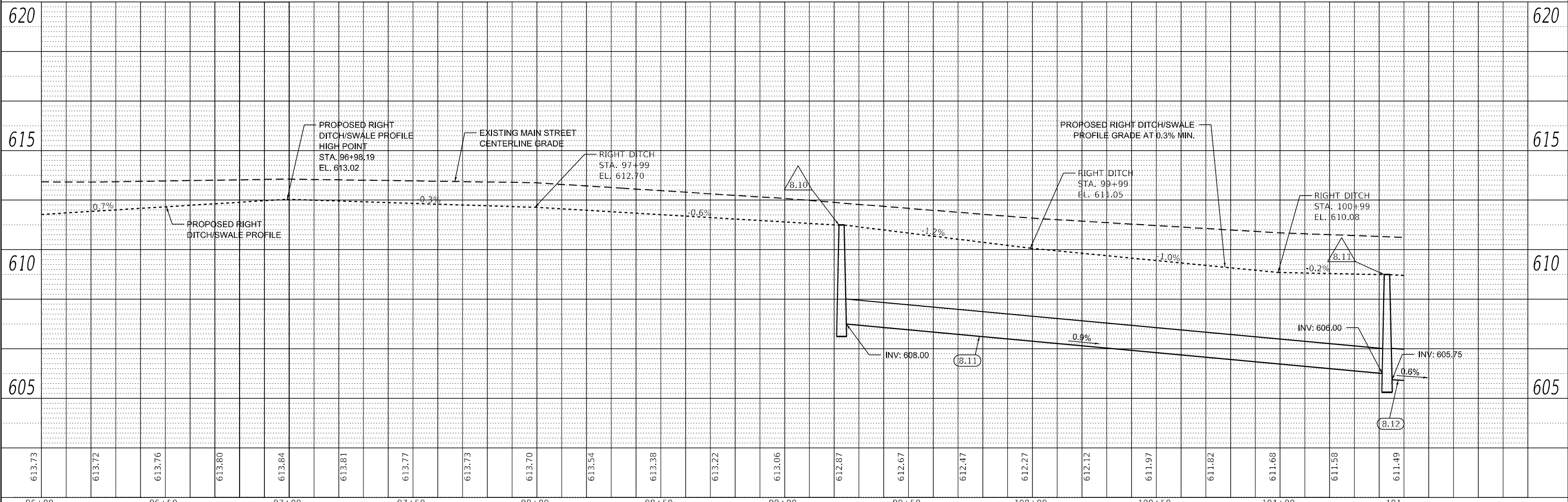
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- LEGEND**
- PROPOSED DRAINAGE PIPE
  - PROPOSED FLARED END SECTION
  - PROPOSED UNDERDRAIN PIPE
  - PROPOSED DRAINAGE PIPE CALLOUT
  - PROPOSED DRAINAGE STRUCTURE CALLOUT
  - TO BE REMOVED
  - PROPOSED CATCH BASIN
  - PROPOSED DRAINAGE MANHOLE
  - PROPOSED INLET
  - PROPOSED CATCH BASIN TYPE B



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

USER NAME	= iso-user\201
DESIGNED	- SJP
DRAWN	- JJJ
CHECKED	- KWB
DATE	- 04/11/2024
REVISIONS	
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DESIGNED	- SJP
DRAWN	- JJJ
CHECKED	- KWB
DATE	- 04/11/2024
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

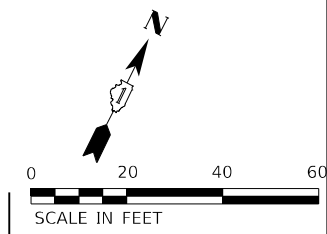
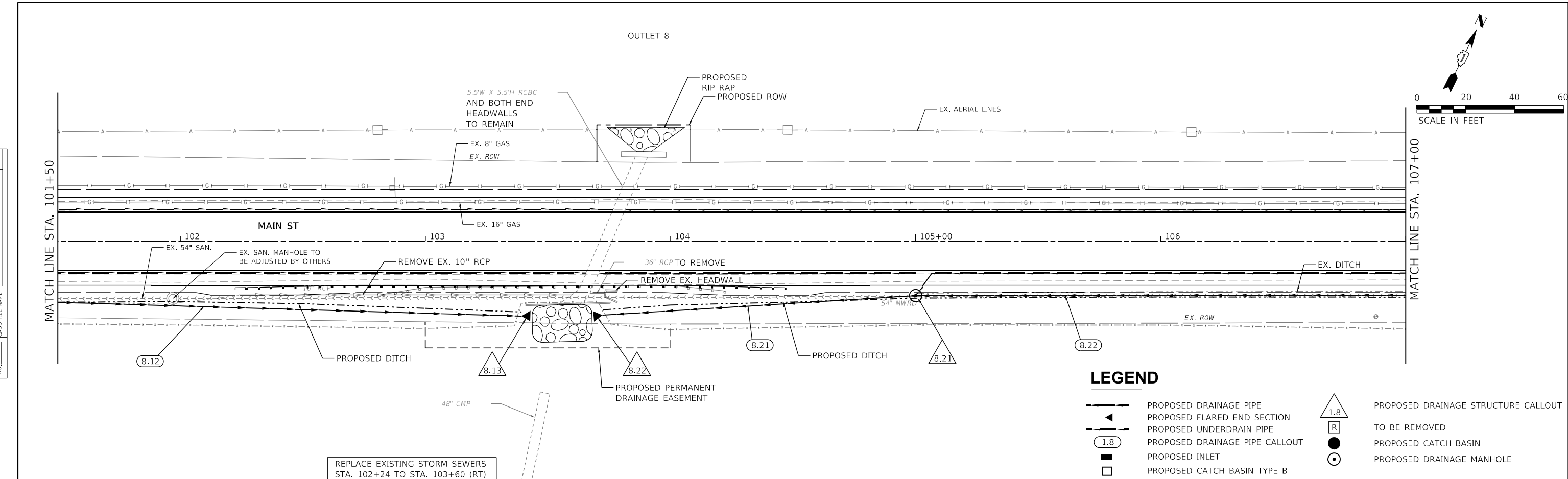
**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 DRAINAGE AND UTILITY PLAN AND PROFILE**

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				

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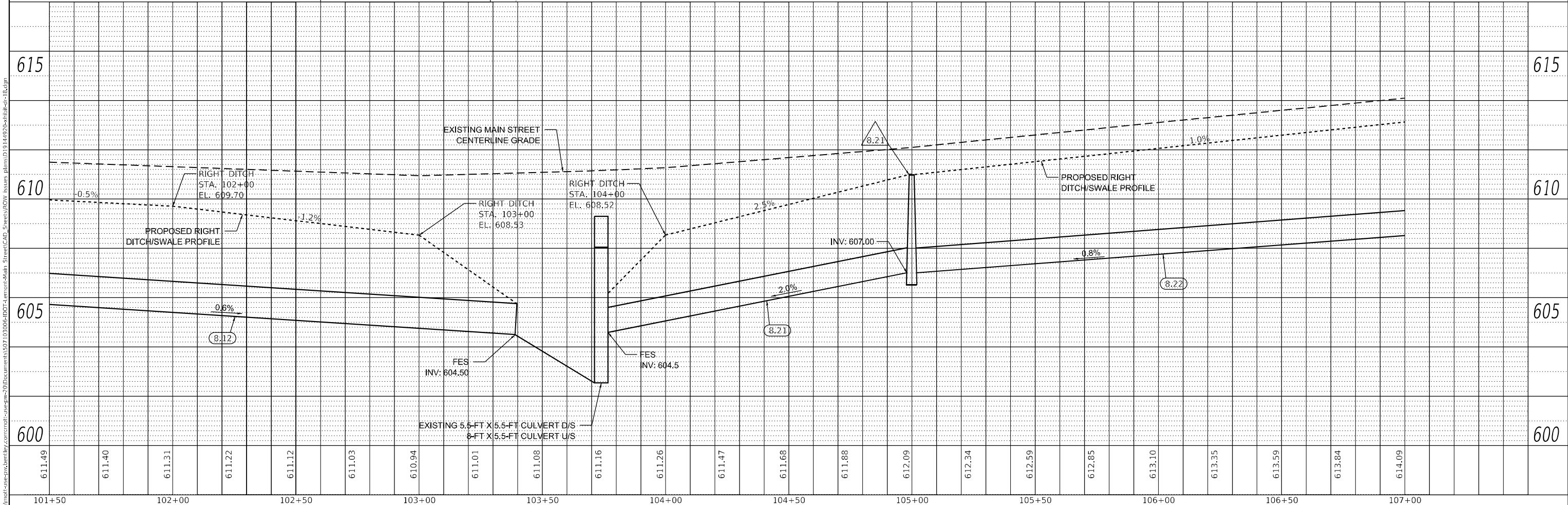
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**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE

REPLACE EXISTING STORM SEWERS  
STA. 102+24 TO STA. 103+60 (RT)

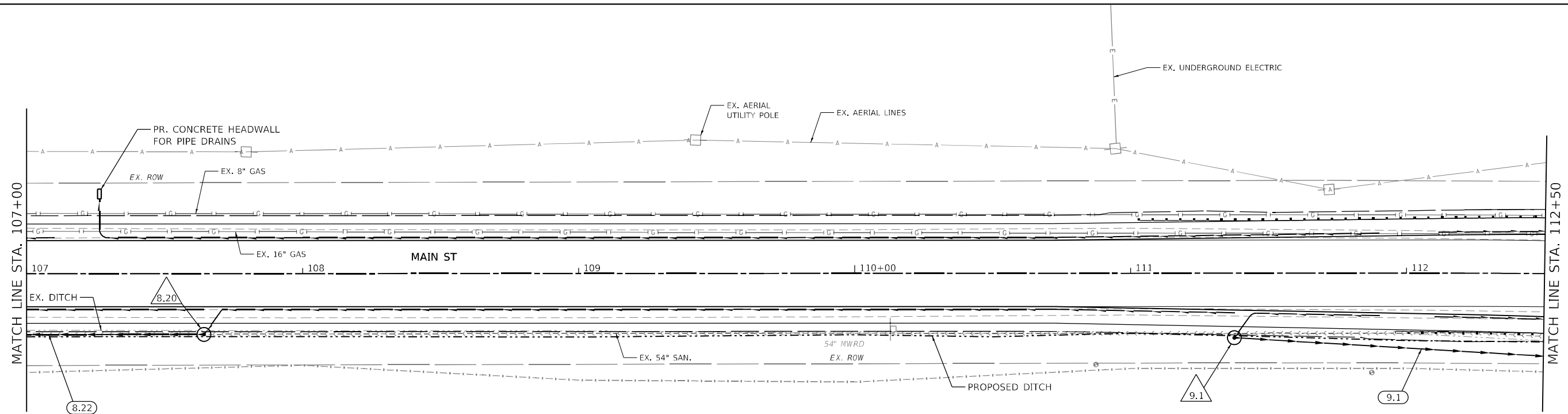


<b>M</b> MOTT MACDONALD 10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 109
	PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -			SCALE: 1"=20'	SHEET DR-18 OF DR-29 SHEETS	STA. 101+50 TO STA. 107+00	CONTRACT NO. 62L30	
	PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -							

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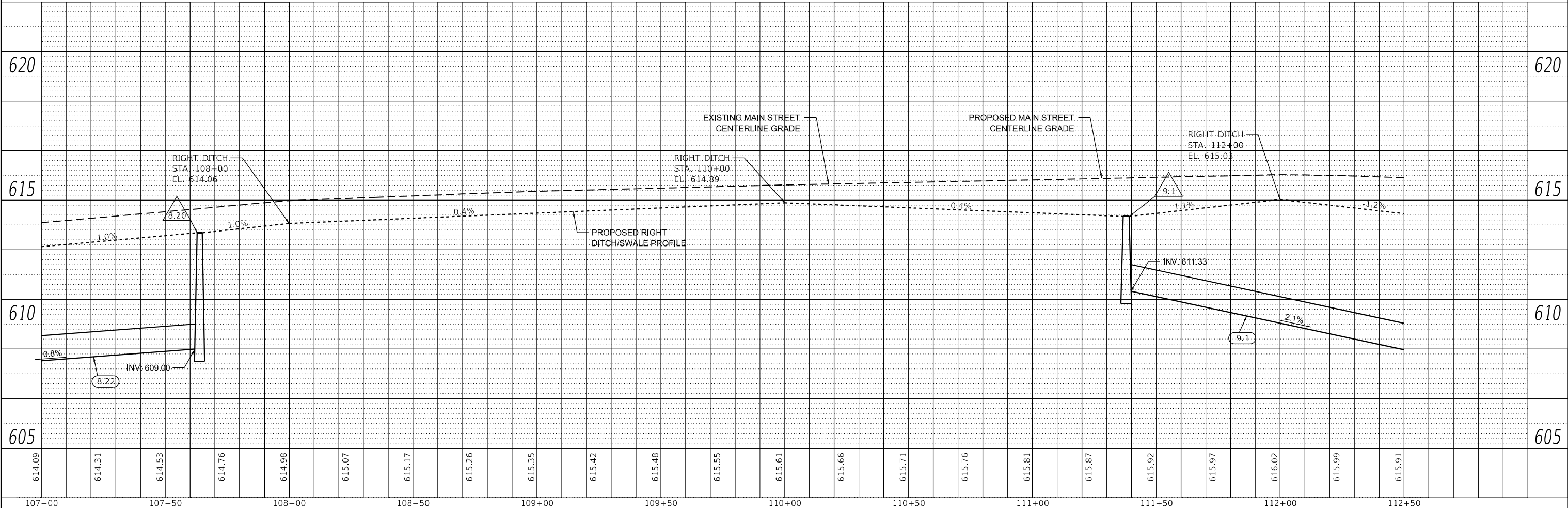
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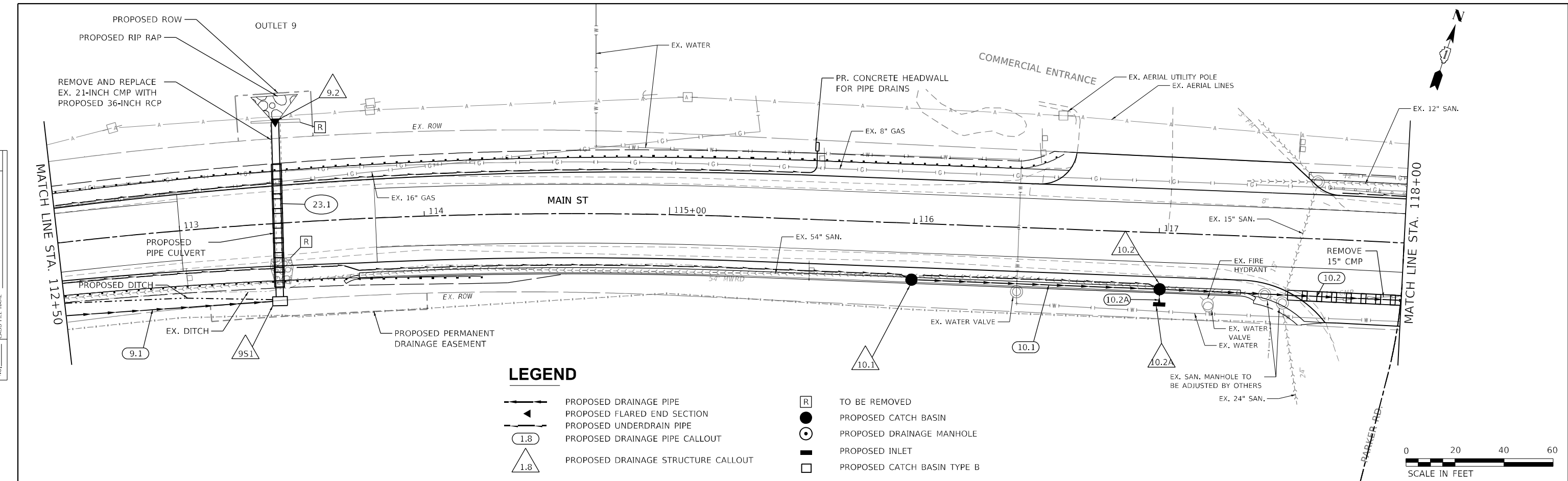
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- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE



<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = iso-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>		F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 110
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -		SCALE: 1"=20'	SHEET DR-19 OF DR-29 SHEETS	STA. 107+00 TO STA. 112+50	CONTRACT NO. 62L30		ILLINOIS FED. AID PROJECT	
		PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -								

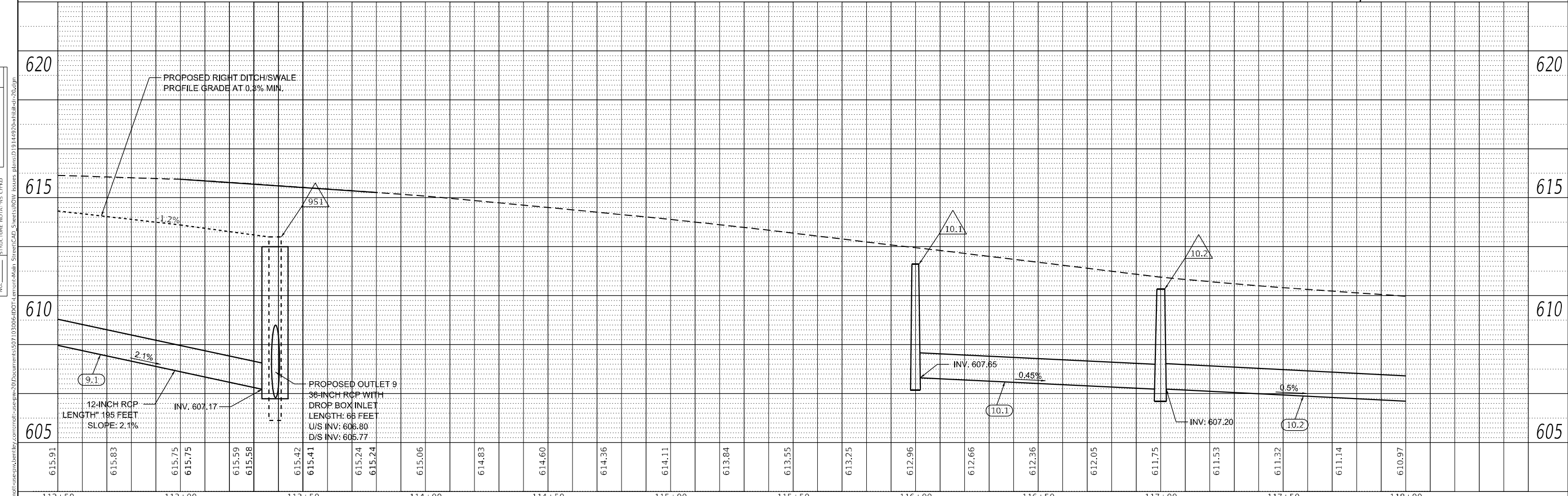
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	PLOTTED	BY
	GRADES CHECKED	
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	NO.	



**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B



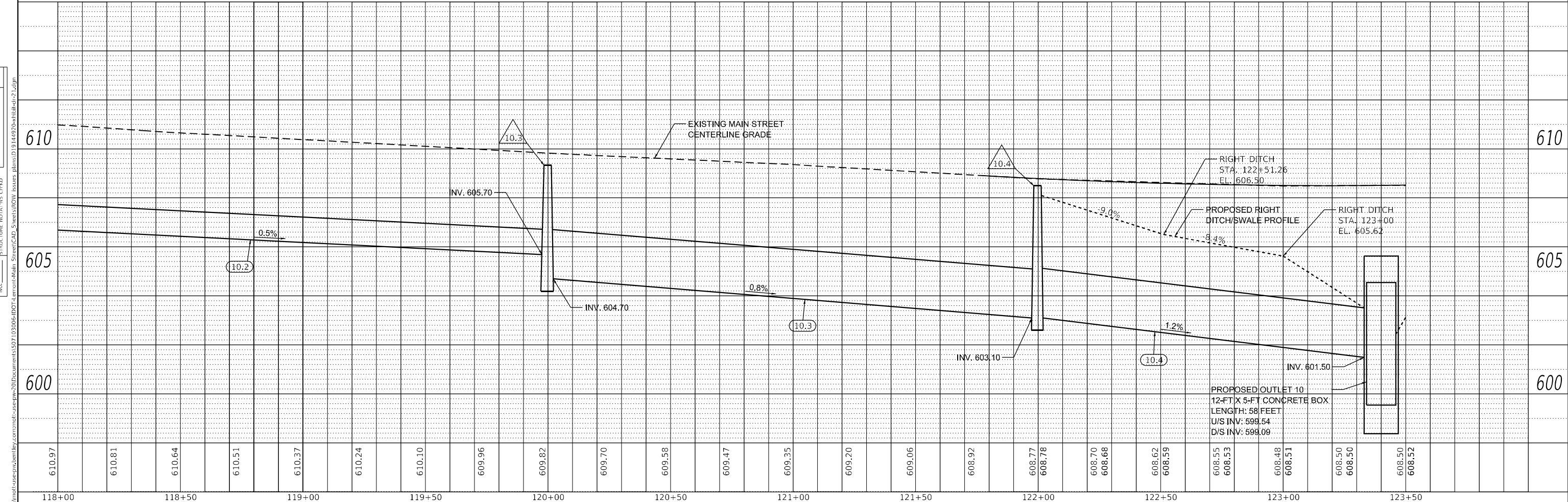
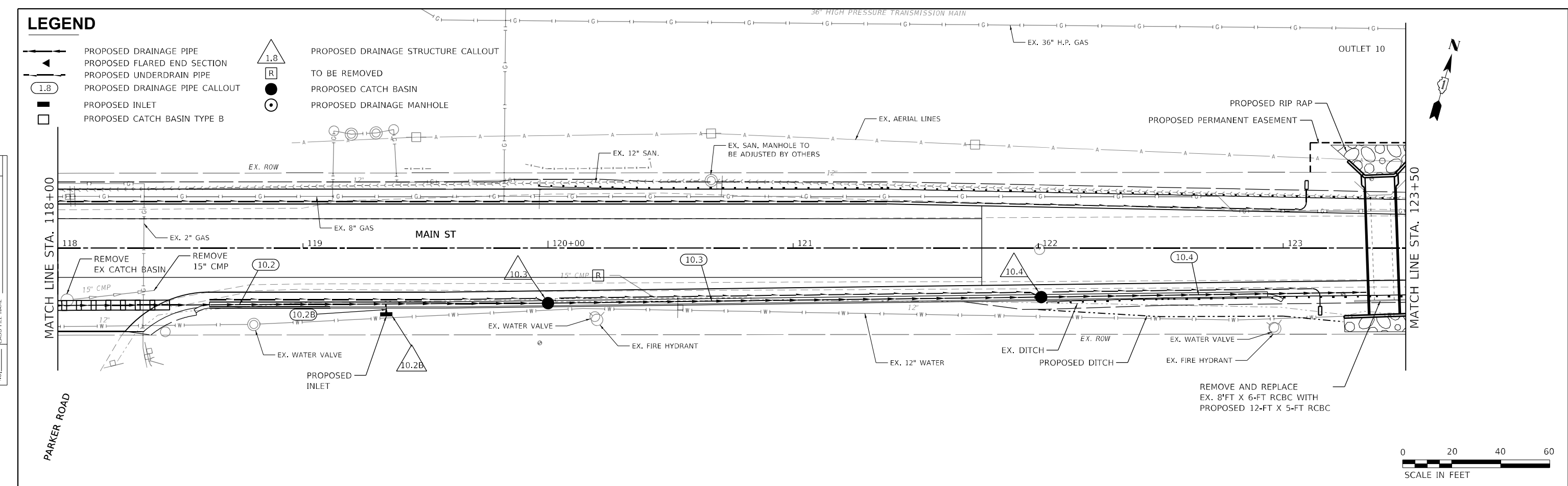
<b>M</b> MOTT MACDONALD	10 S LaSalle St., #250, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 111
	SCALE: 1"=20' SHEET DR-20 OF DR-29SHEETS STA. 112+50 TO STA. 118+00	ILLINOIS FED. AID PROJECT					

**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- 1.8 PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED INLET
- PROPOSED CATCH BASIN TYPE B
- △ 1.8 PROPOSED DRAINAGE STRUCTURE CALLOUT
- R TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION	
	FILE NAME	
	NO.	

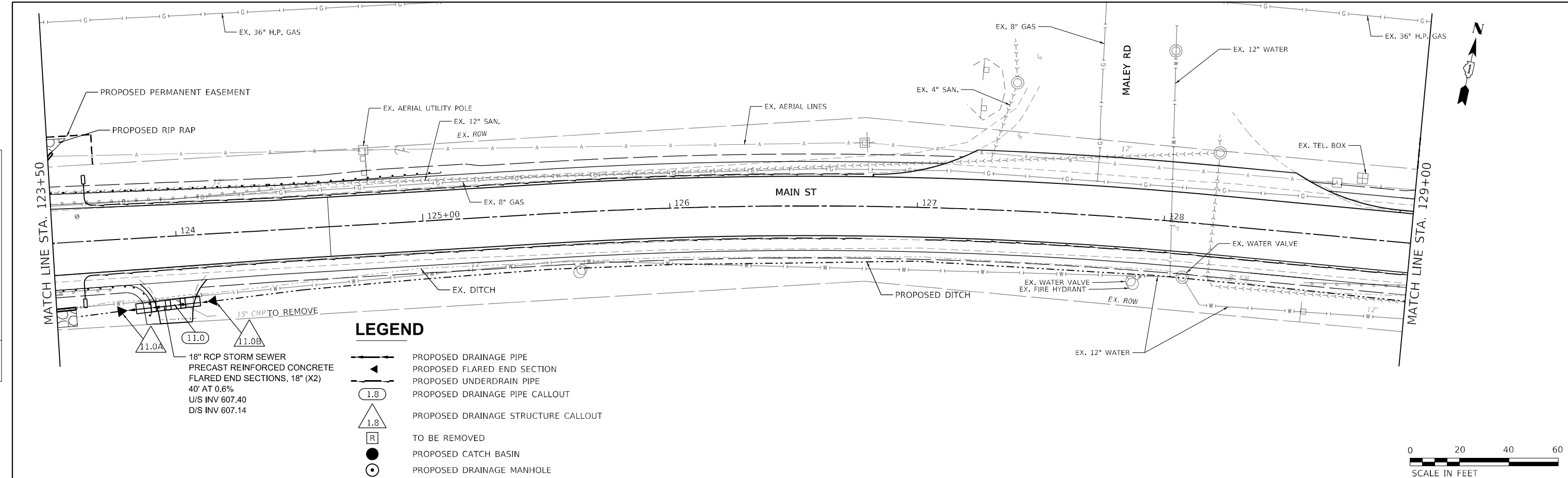
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION	
	FILE NAME	
	NO.	



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISIONS REVISION NO.   DATE   BY   DESCRIPTION 1   04/11/2024   JJJ   INITIAL DESIGN 2   04/11/2024   KWB   CHECKED 3   04/11/2024   SJP   DESIGNED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. 3587 SECTION 2020-142-C&DR COUNTY COOK CONTRACT NO. 62L30	TOTAL SHEETS 316 SHEET NO. 112
	SCALE: 1"=20' SHEET DR-21 OF DR-29 SHEETS STA. 118+00 TO STA. 123+50		ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

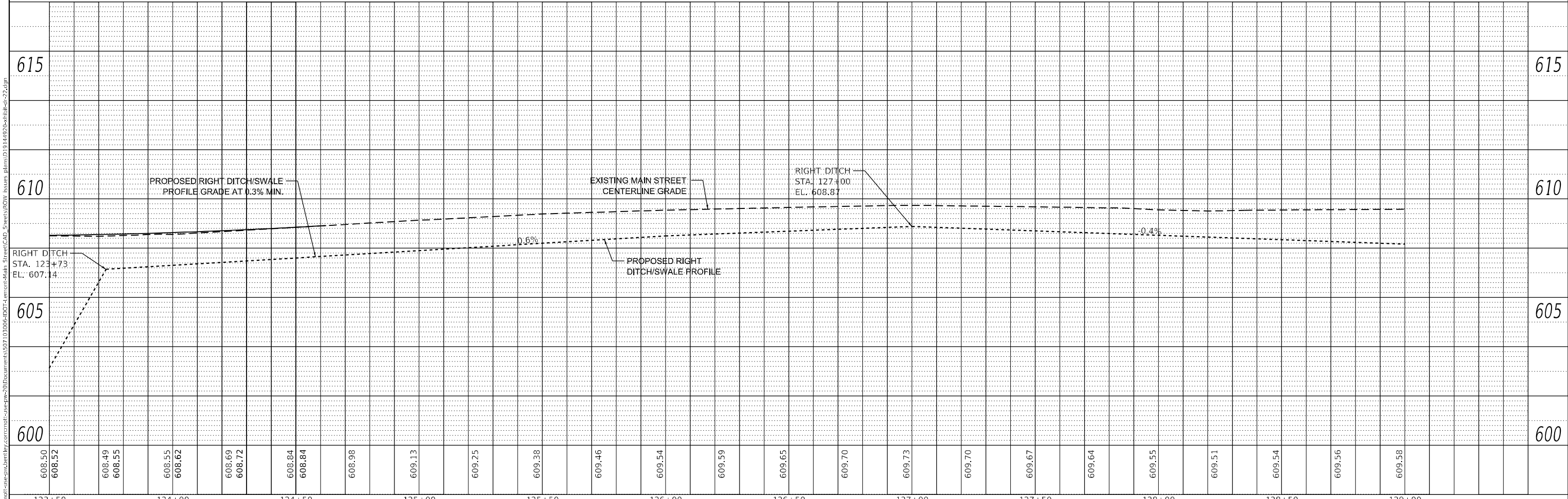
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



**LEGEND**

	PROPOSED DRAINAGE PIPE
	PROPOSED FLARED END SECTION
	PROPOSED UNDERDRAIN PIPE
	PROPOSED DRAINAGE PIPE CALLOUT
	PROPOSED DRAINAGE STRUCTURE CALLOUT
	TO BE REMOVED
	PROPOSED CATCH BASIN
	PROPOSED DRAINAGE MANHOLE

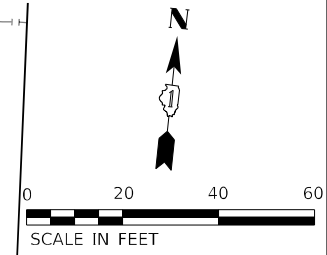
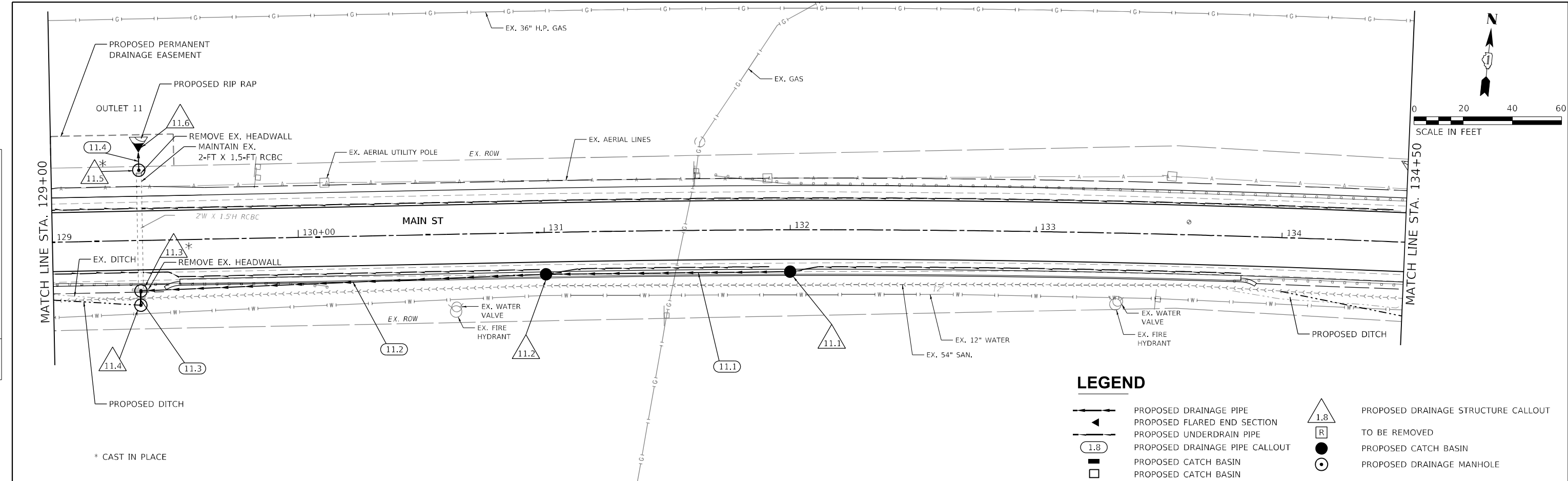
18" RCP STORM SEWER  
 PRECAST REINFORCED CONCRETE  
 FLARED END SECTIONS, 18" (X2)  
 40' AT 0.6%  
 U/S INV 607.40  
 D/S INV 607.14



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = iso-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 113
	SCALE: 1"=20' SHEET DR-22 OF DR-29 SHEETS STA. 123+50 TO STA. 129+00		ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
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	CADD FILE NAME	

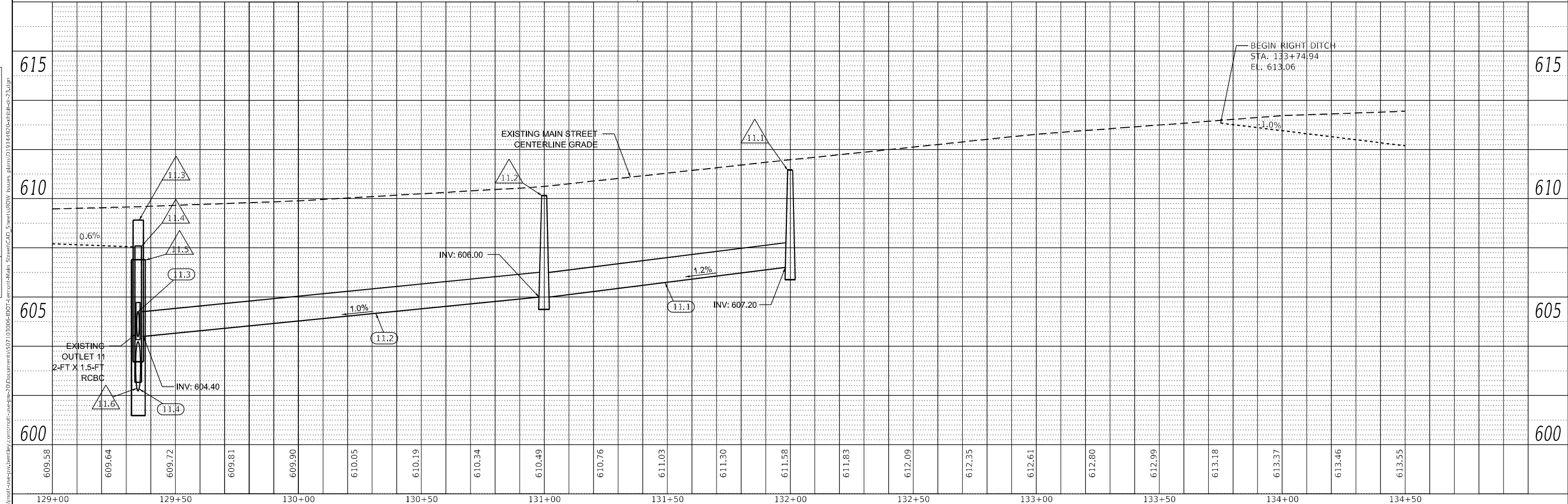
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATION	
	NO.	



**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- (1.8) PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN
- △ 1.8 PROPOSED DRAINAGE STRUCTURE CALLOUT
- ⊠ TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE

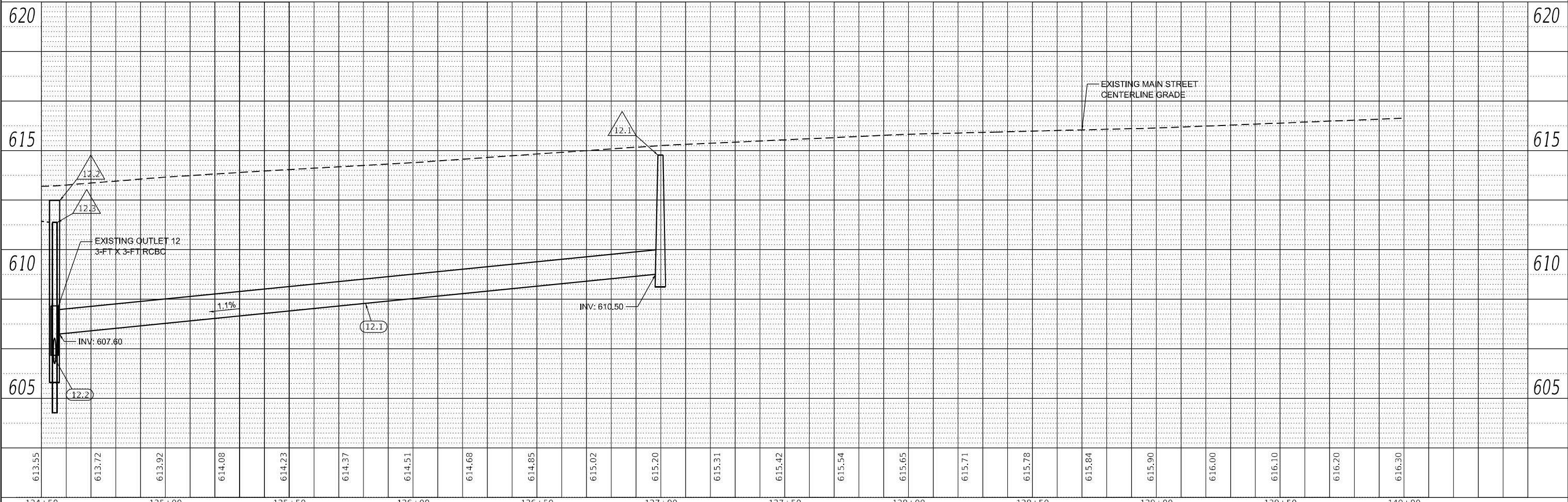
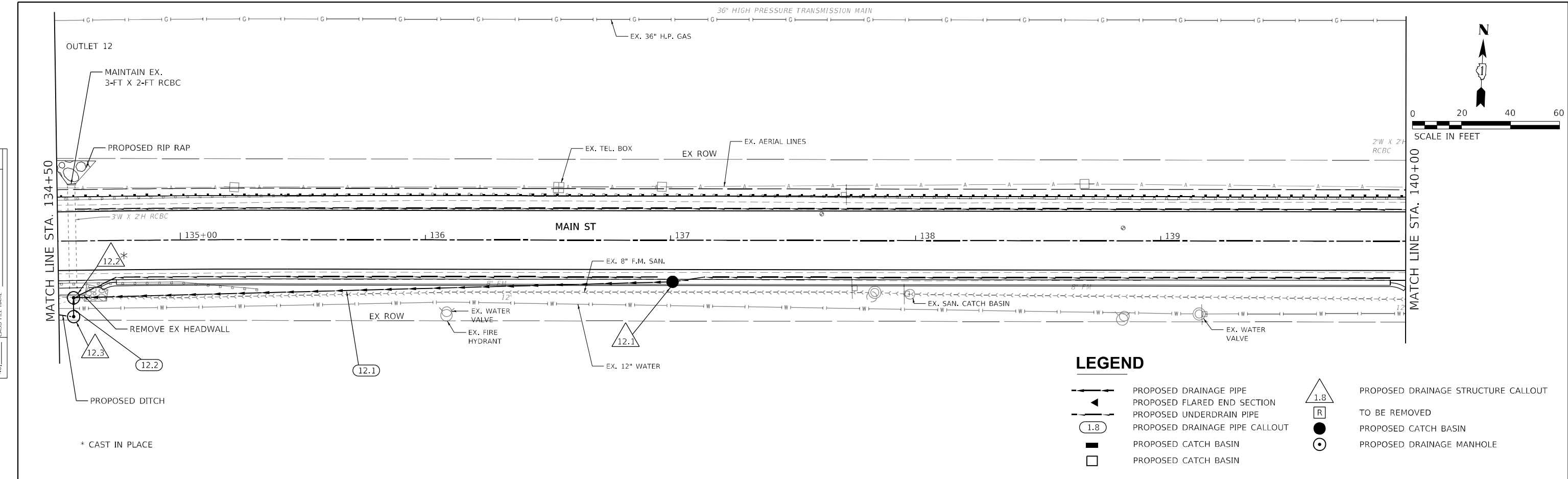
\* CAST IN PLACE



<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 114
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -			CONTRACT NO. 62L30				
		PLOT DATE = 1/26/2026	DATE = 04/11/2024	REVISED -	SCALE: 1"=20'		SHEET DR-23 OF DR-29 SHEETS		STA. 129+00 TO STA. 134+50		ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
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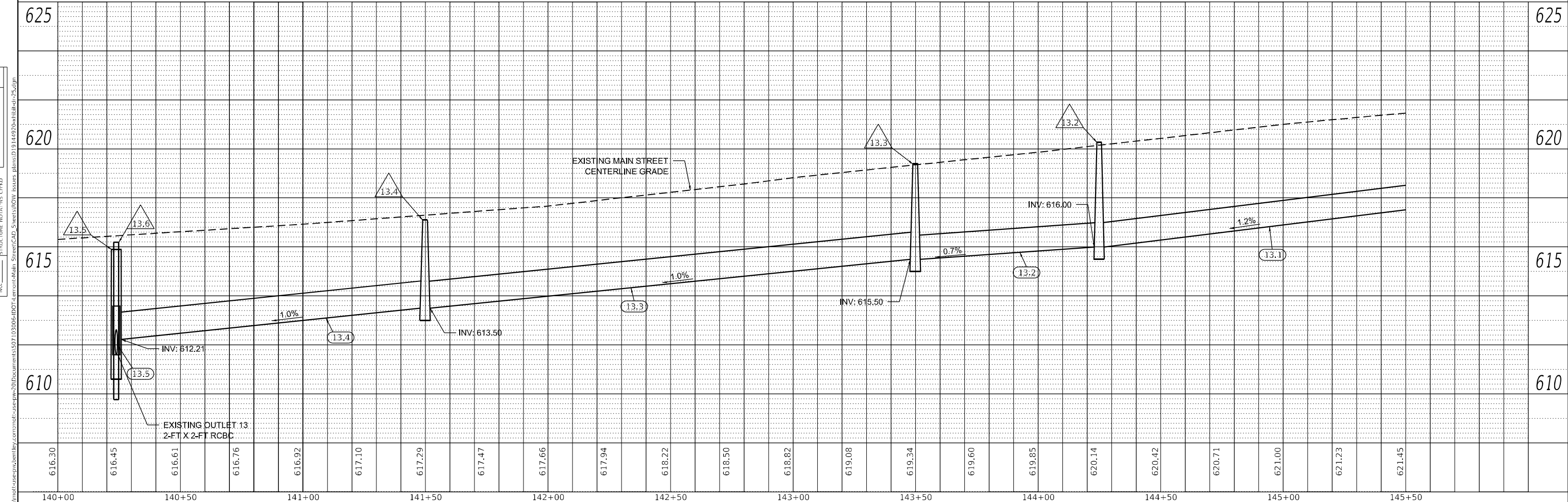
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS	
	NO.	



<b>M</b> MOTT MACDONALD 10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>		F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30
	PLOT SCALE = 480,0000' / ft. PLOT DATE = 1/26/2026	SCALE: 1"=20' SHEET DR-24 OF DR-29SHEETS STA. 134+50 TO STA. 140+00		TOTAL SHEETS = 316 SHEET NO. = 115 ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
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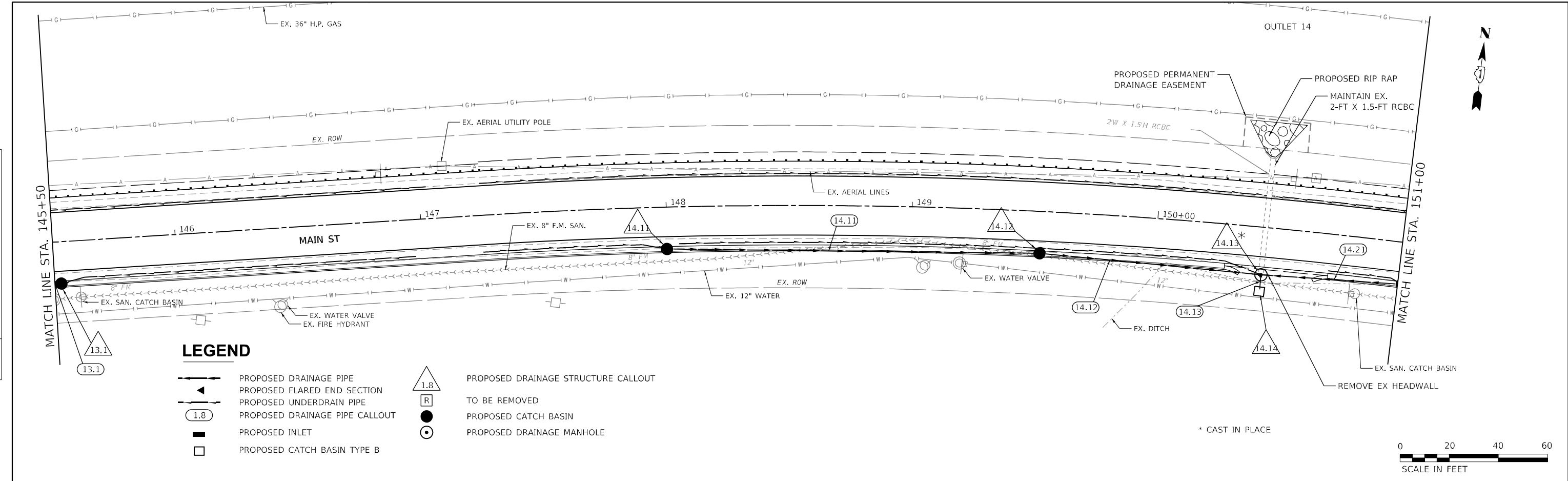
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATION	
	NO.	



<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = iso-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 116
	PLOT SCALE = 480,0000' / ft. PLOT DATE = 1/26/2026	SCALE: 1"=20' SHEET DR-25 OF DR-29 SHEETS STA. 140+00 TO STA. 145+50	ILLINOIS FED. AID PROJECT				

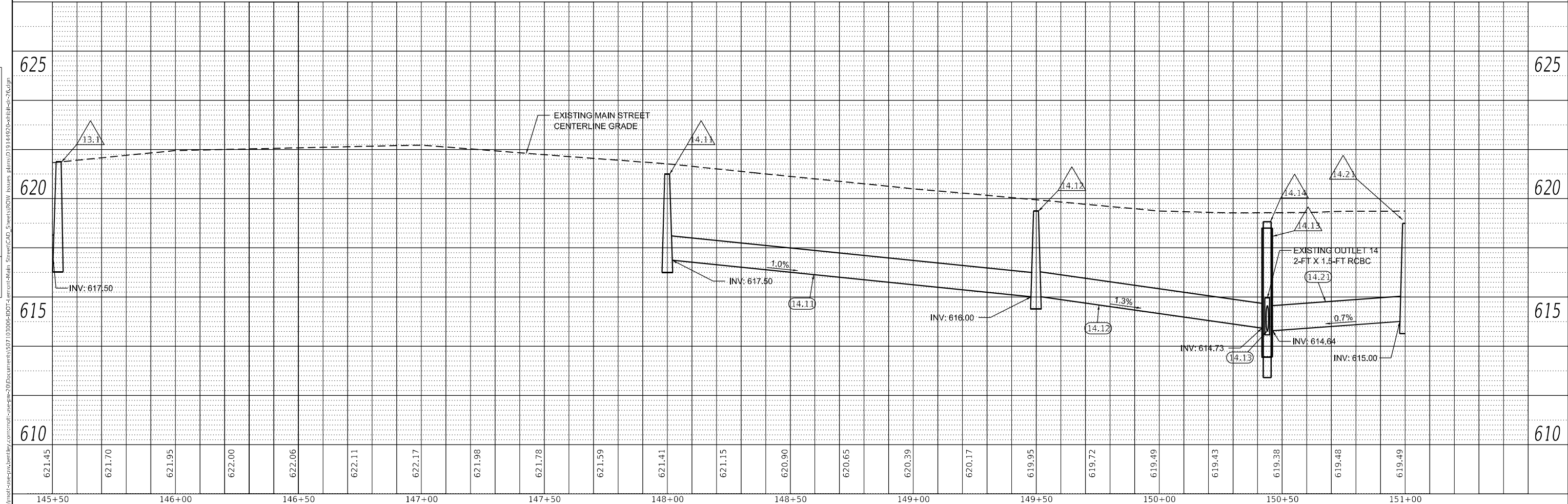
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	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE	
	NOTATION	
	REVISED	



**LEGEND**

	PROPOSED DRAINAGE PIPE		PROPOSED DRAINAGE STRUCTURE CALLOUT
	PROPOSED FLARED END SECTION		TO BE REMOVED
	PROPOSED UNDERDRAIN PIPE		PROPOSED CATCH BASIN
	PROPOSED DRAINAGE PIPE CALLOUT		PROPOSED DRAINAGE MANHOLE
	PROPOSED INLET		
	PROPOSED CATCH BASIN TYPE B		

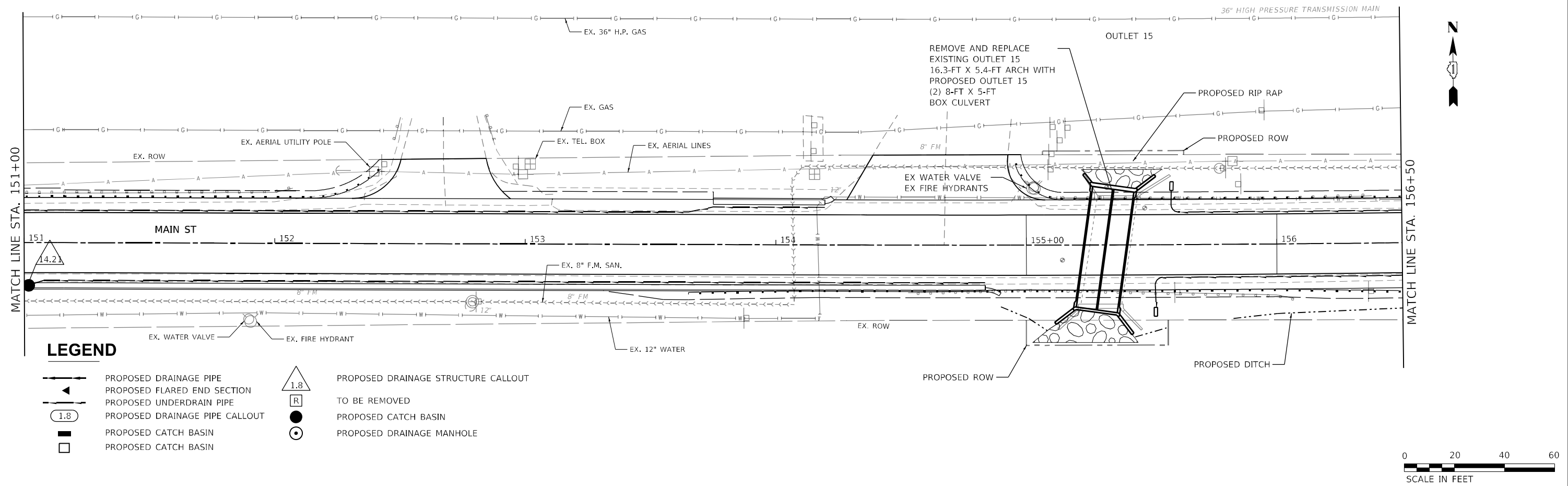


<b>M</b> MOTT MACDONALD 10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 117
	PLOT SCALE = 480,0000' / ft. PLOT DATE = 1/26/2026	SCALE: 1"=20' SHEET DR-26 OF DR-29SHEETS STA. 145+50 TO STA. 151+00			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
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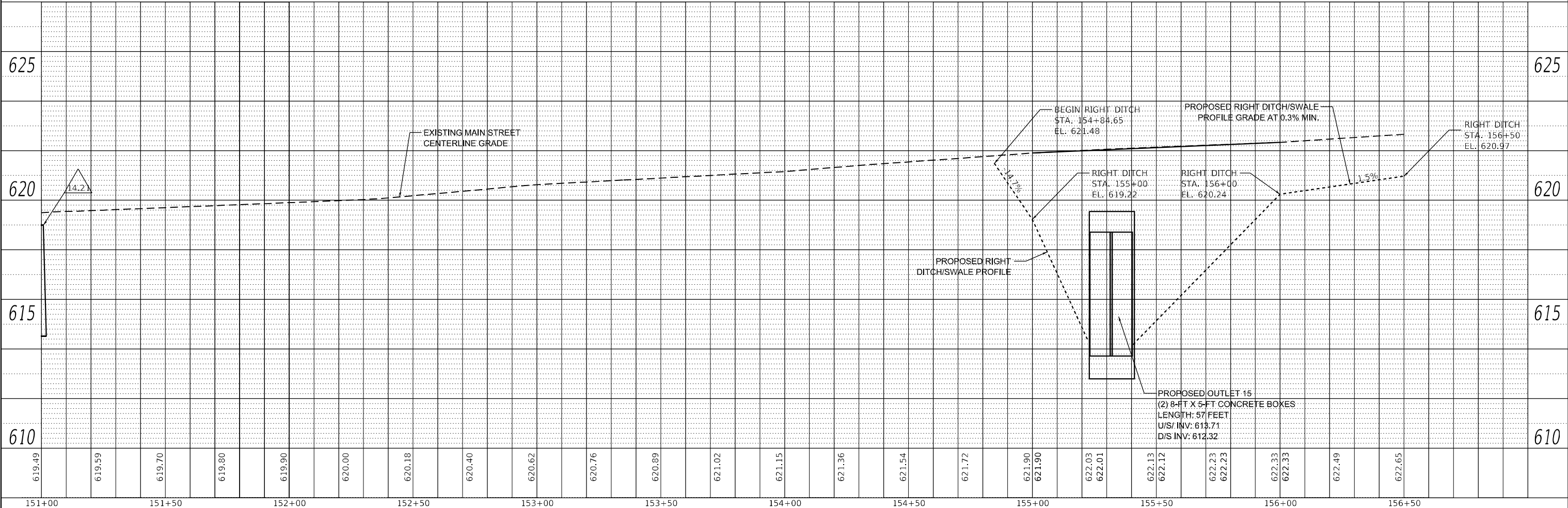
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	PLOTTED	
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	NOTE BOOK	
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	NO.	

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**LEGEND**

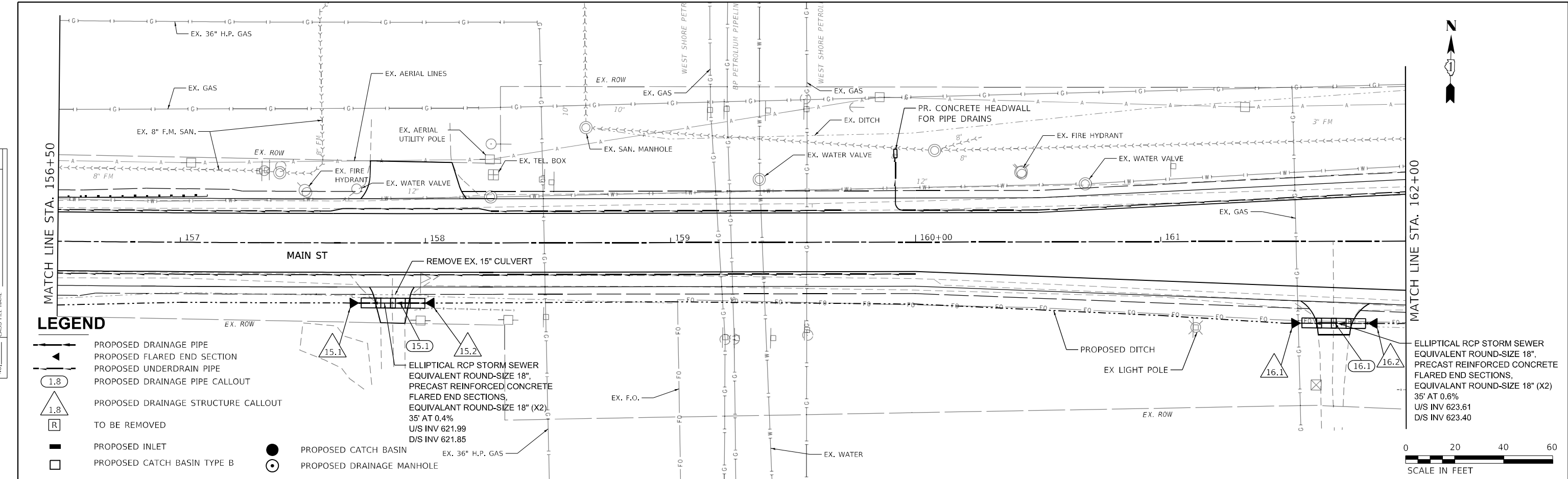
- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 118
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -			CONTRACT NO. = 62L30	ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/26/2026		DATE = 04/11/2024	REVISED -	REVISED -	SCALE: 1"=20'	SHEET DR-27 OF DR-29 SHEETS	STA. 151+00	TO STA. 156+50			

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	
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PROFILE	SURVEYED	DATE
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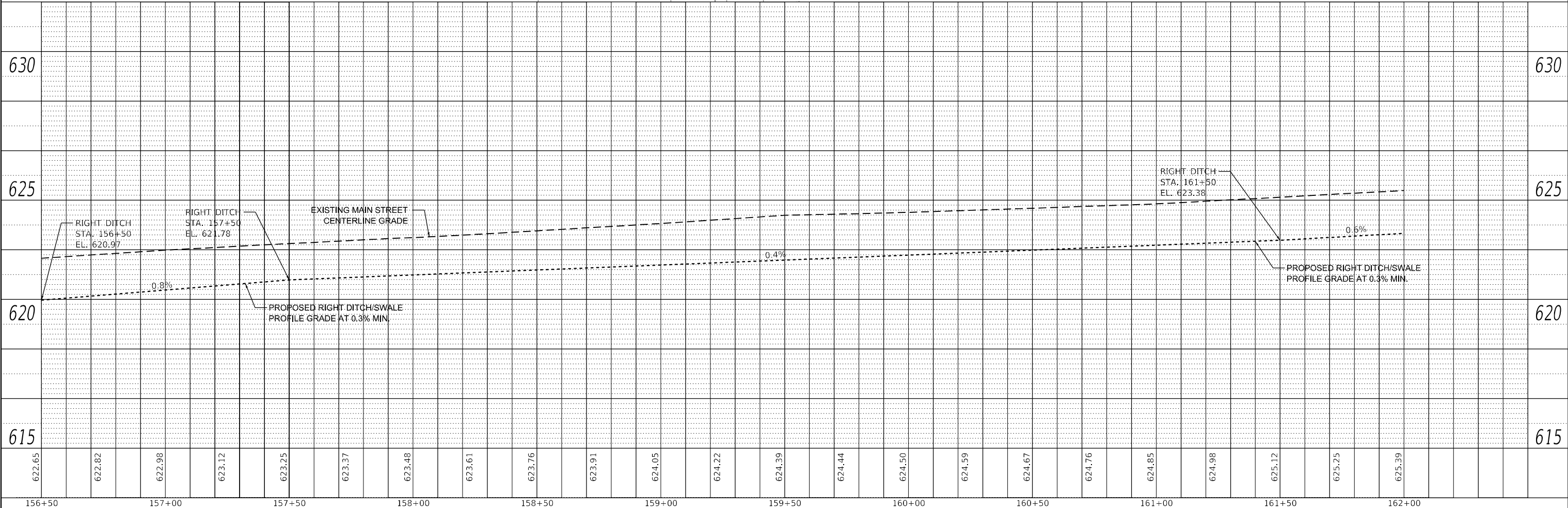


**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED CATCH BASIN TYPE B
- PROPOSED DRAINAGE MANHOLE

ELLIPTICAL RCP STORM SEWER  
EQUIVALENT ROUND-SIZE 18",  
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS,  
EQUIVALENT ROUND-SIZE 18" (X2)  
35' AT 0.4%  
U/S INV 621.99  
D/S INV 621.85

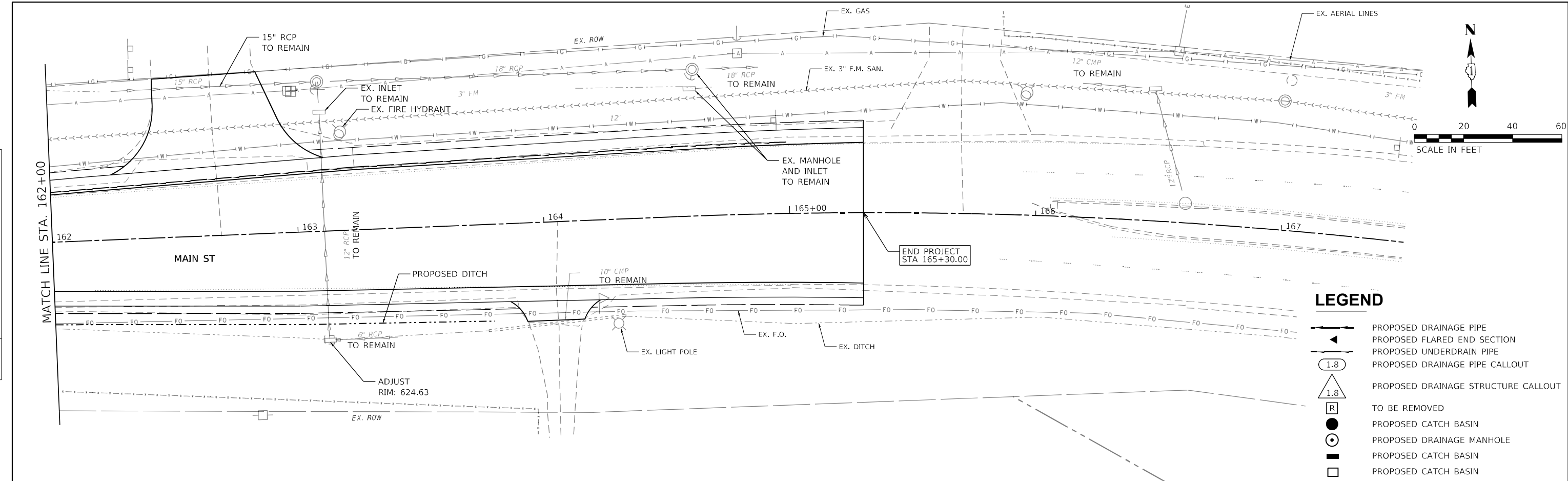
ELLIPTICAL RCP STORM SEWER  
EQUIVALENT ROUND-SIZE 18",  
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS,  
EQUIVALENT ROUND-SIZE 18" (X2)  
35' AT 0.6%  
U/S INV 623.61  
D/S INV 623.40



<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lso-user201	DESIGNED - SJP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587	SECTION = 2020-142-C&DR	COUNTY = COOK	TOTAL SHEETS = 316	SHEET NO. = 119
		PLOT SCALE = 480,0000' / ft.	CHECKED - KWB	REVISED -			CONTRACT NO. = 62L30	ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/26/2026		DATE = 04/11/2024	REVISED -	REVISED -	SCALE: 1"=20'	SHEET DR-28 OF DR-29 SHEETS	STA. 156+50	TO STA. 162+00			

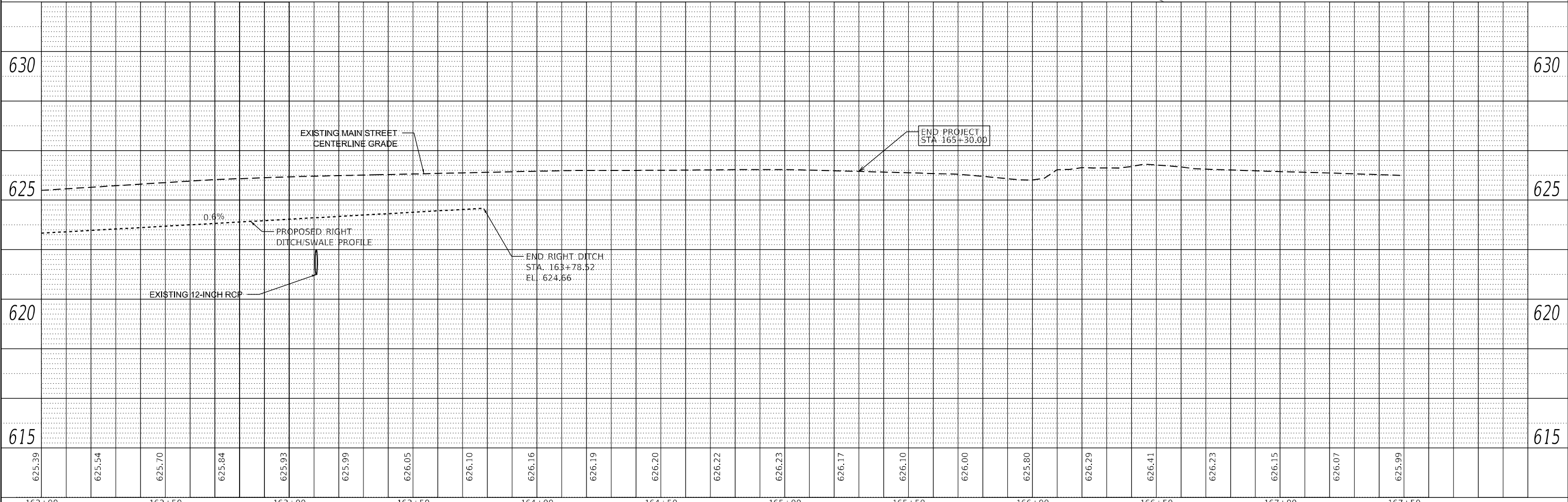
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	PLOTTED	BY
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	NOTE BOOK	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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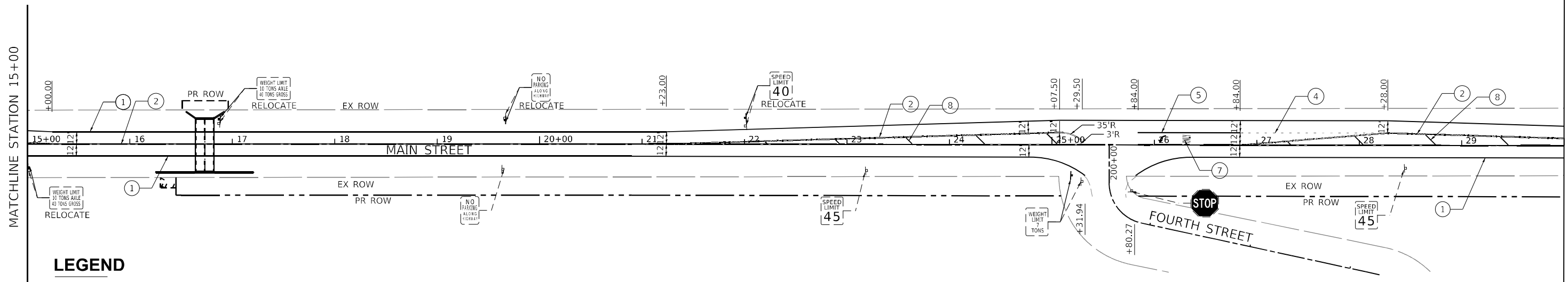
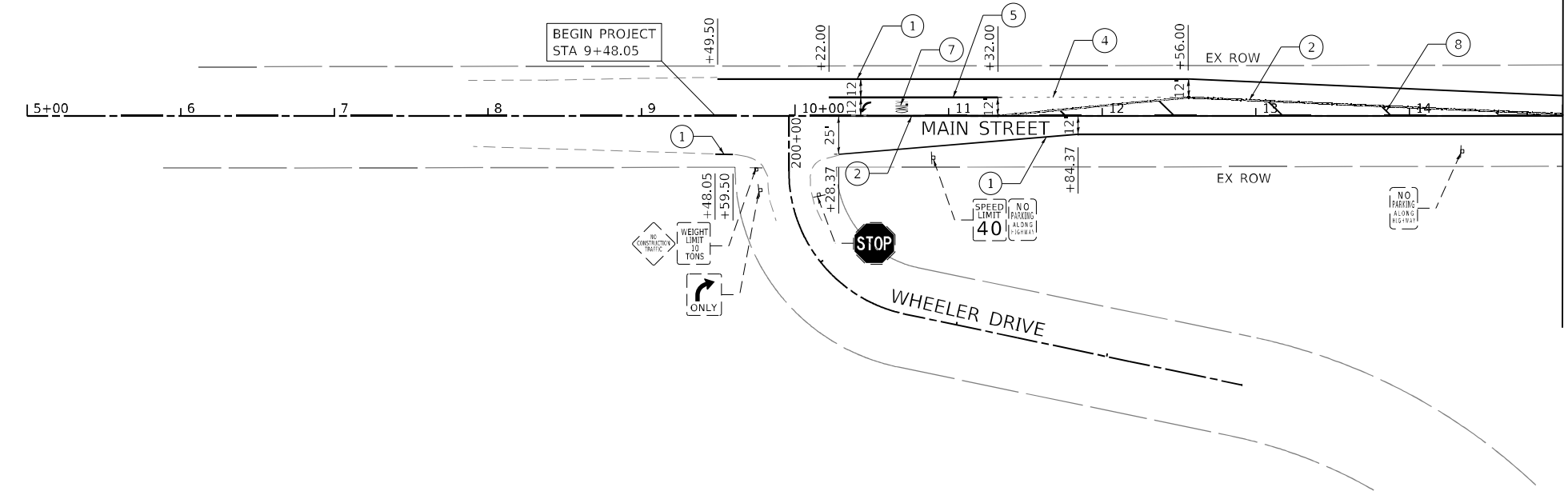
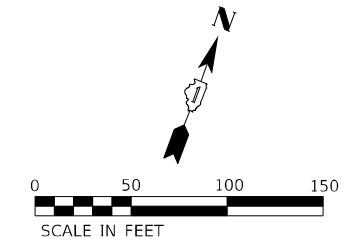


**LEGEND**

- PROPOSED DRAINAGE PIPE
- PROPOSED FLARED END SECTION
- PROPOSED UNDERDRAIN PIPE
- PROPOSED DRAINAGE PIPE CALLOUT
- PROPOSED DRAINAGE STRUCTURE CALLOUT
- TO BE REMOVED
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED CATCH BASIN



<b>M</b> MOTT MACDONALD	10 S LaSalle St., 2520, Chicago, IL 60603	USER NAME = iso-user201 DESIGNED - SJP DRAWN - JJJ CHECKED - KWB DATE - 04/11/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>DRAINAGE AND UTILITY PLAN AND PROFILE</b>	F.A. RTE. = 3587 SECTION = 2020-142-C&DR COUNTY = COOK CONTRACT NO. = 62L30	TOTAL SHEETS = 316 SHEET NO. = 120
	PLOT SCALE = 480,0000' / ft. PLOT DATE = 1/26/2026	SCALE: 1"=20' SHEET DR-29 OF DR-29SHEETS STA. 162+00 TO STA. 167+50	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)

MODEL: Default  
 FILE: MainSt\_PavementMarkingAndSignagePlan.dwg  
 USER: user@pwr.com  
 PROJECT: Main Street CAD Sheets  
 SHEET: 121 of 121  
 DATE: 1/26/2026

**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**NOTT**  
**MACDONALD**

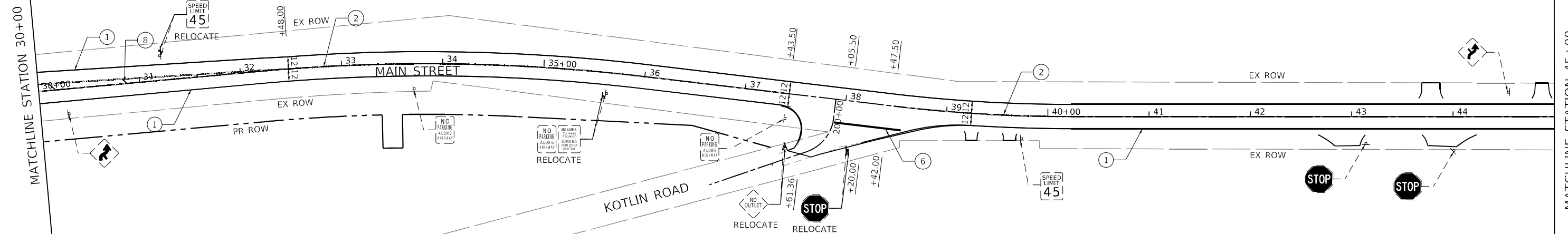
USER NAME = iso-user201	DESIGNED - SJP	REVISED -
PLOT SCALE = 1/200,0000' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - AA	REVISED -
	DATE - 06/20/2025	REVISED -

**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. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 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)

MODEL: Default  
 FILE: Main St Pavement Marking and Signage.dwg  
 USER: jmacdonald  
 PROJECT: 2020-142-C&DR  
 SHEET: PM-02 OF PM-06 SHEETS  
 DATE: 1/26/2026

**M**  
 NOTT  
 MACDONALD

USER NAME = jmacdonald	DESIGNED - SJP	REVISED -
PLOT SCALE = 1/2000.0000 ' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - KWB	REVISED -
	DATE - 06/20/2025	REVISED -

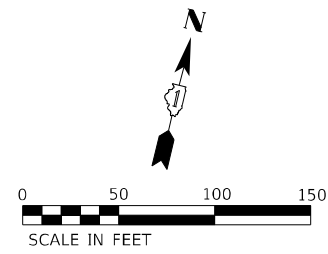
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DRAWN - MY	REVISED -
CHECKED - KWB	REVISED -
DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

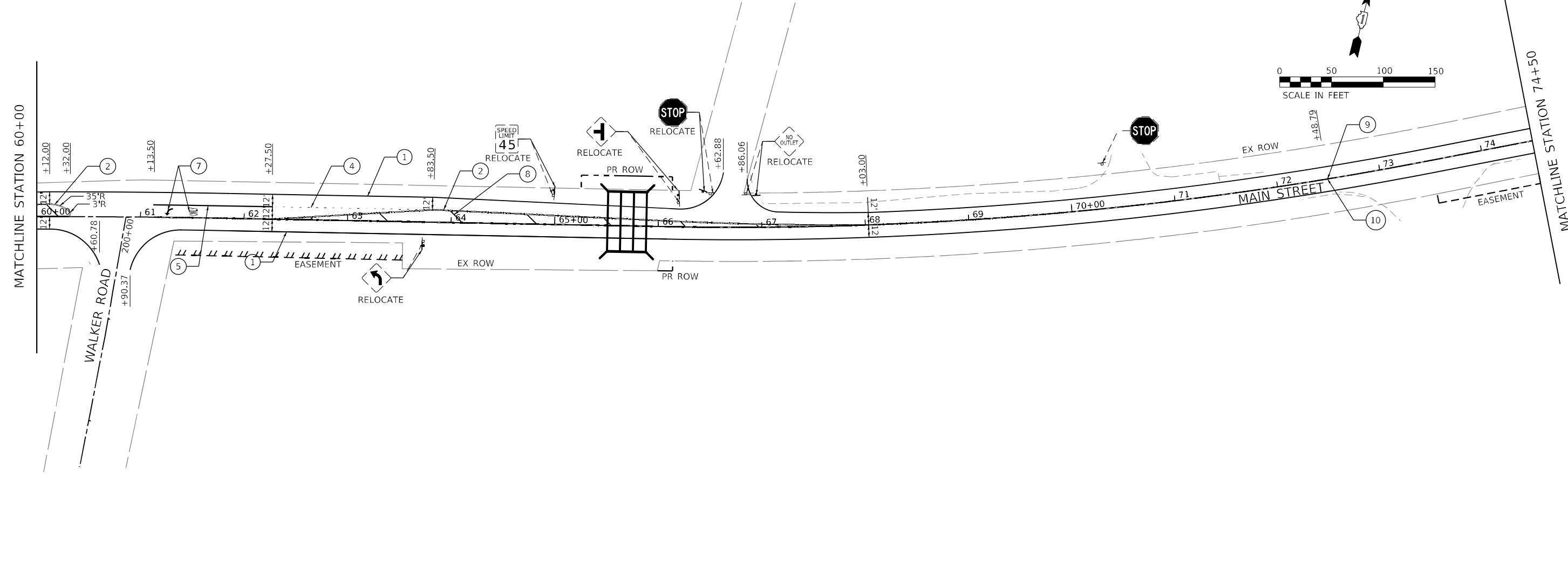
SCALE: 1"=50'    SHEET PM-02 OF PM-06 SHEETS    STA. 30+00    TO STA. 60+00

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				



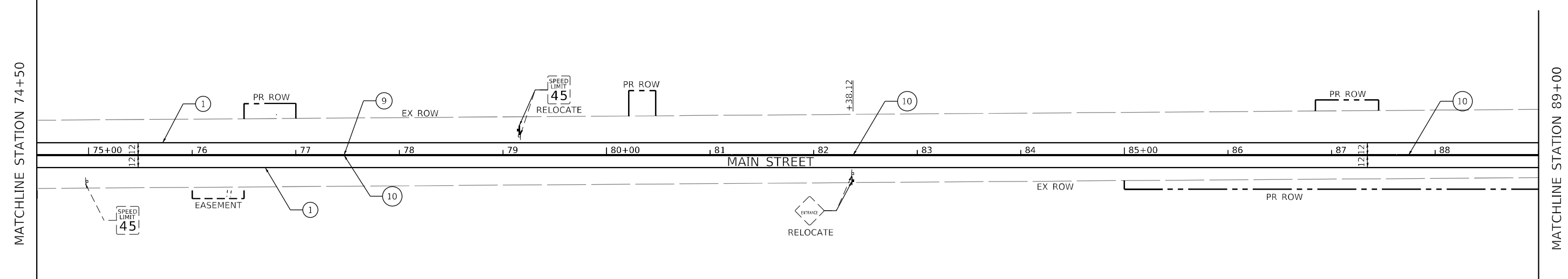
MATCHLINE STATION 60+00

MATCHLINE STATION 74+50



MATCHLINE STATION 74+50

MATCHLINE STATION 89+00



**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)

MODEL: Default  
 FILE: Main\_12.plt  
 PLOT DATE: 1/26/2026  
 USER: user201  
 PROJECT: 2020-142-C&DR  
 SHEET: PM-03 OF PM-06 SHEETS  
 CONTRACT NO. 62L30

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

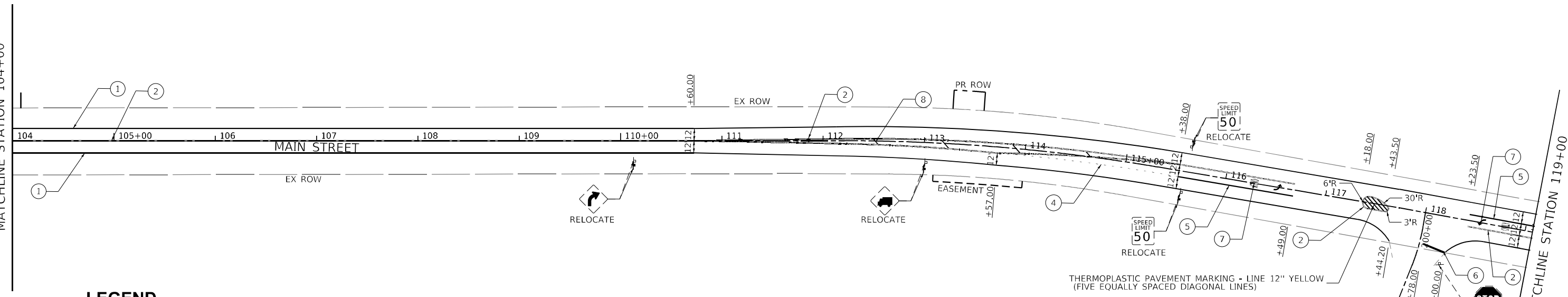
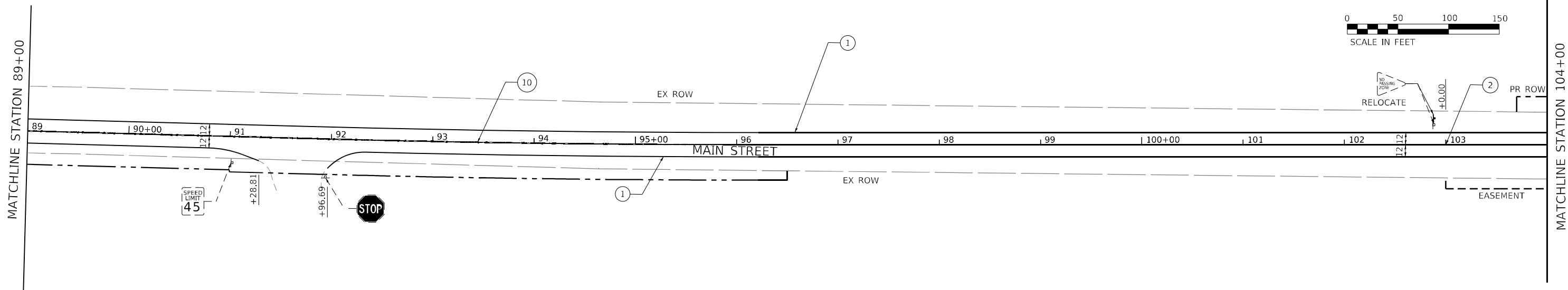
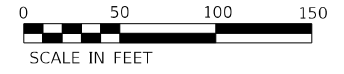
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PLOT DATE = 1/26/2026	CHECKED - KWB	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

F.A.U. RTE. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 123
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				

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



**LEGEND**

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

THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW (FIVE EQUALLY SPACED DIAGONAL LINES)

MODEL: Default  
 FILE: MainSt\_PlanView.dwg  
 USER: jmacdonald  
 PROJECT: 2020-142-C&DR  
 SHEET: PM-04 OF PM-06 SHEETS  
 DATE: 1/26/2026

**M**  
 NOTT  
 MACDONALD  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603

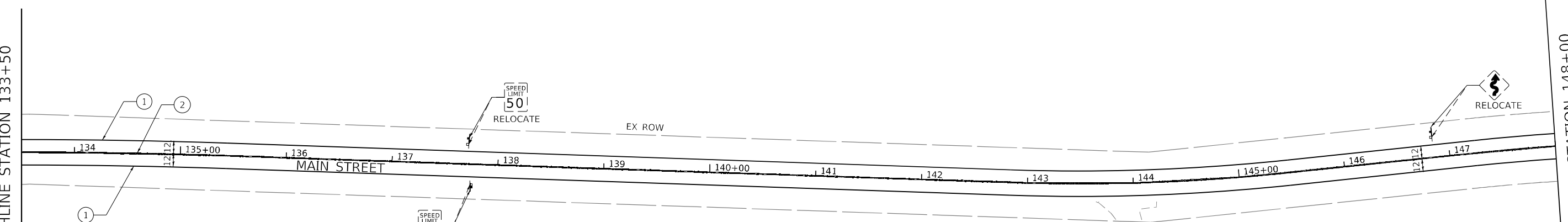
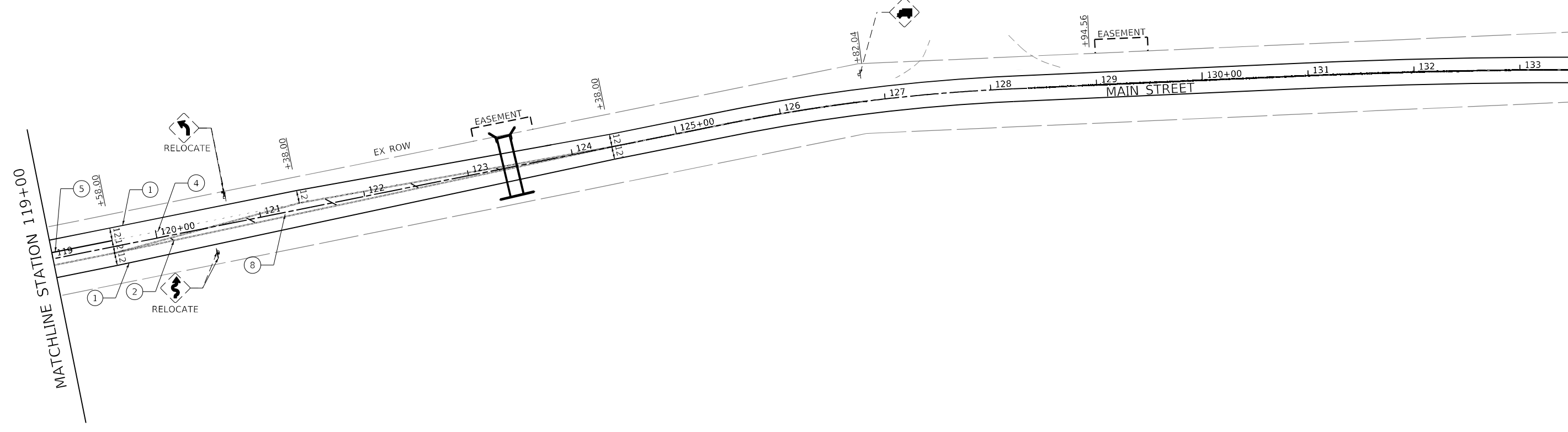
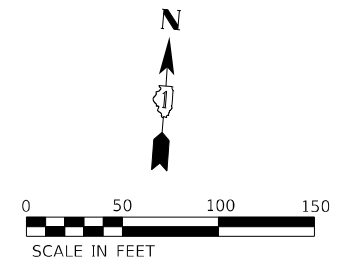
USER NAME = jmacdonald	DESIGNED - SJP	REVISED -
PLOT SCALE = 1/200,0000' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - KWB	REVISED -
	DATE - 06/20/2025	REVISED -

**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. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 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)
- 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

**M**  
 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**MOTT**  
**MACDONALD**

USER NAME = lso-user201	DESIGNED - SJP	REVISED -
PLOT SCALE = 1/200,0000' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - KWB	REVISED -
	DATE - 06/20/2025	REVISED -

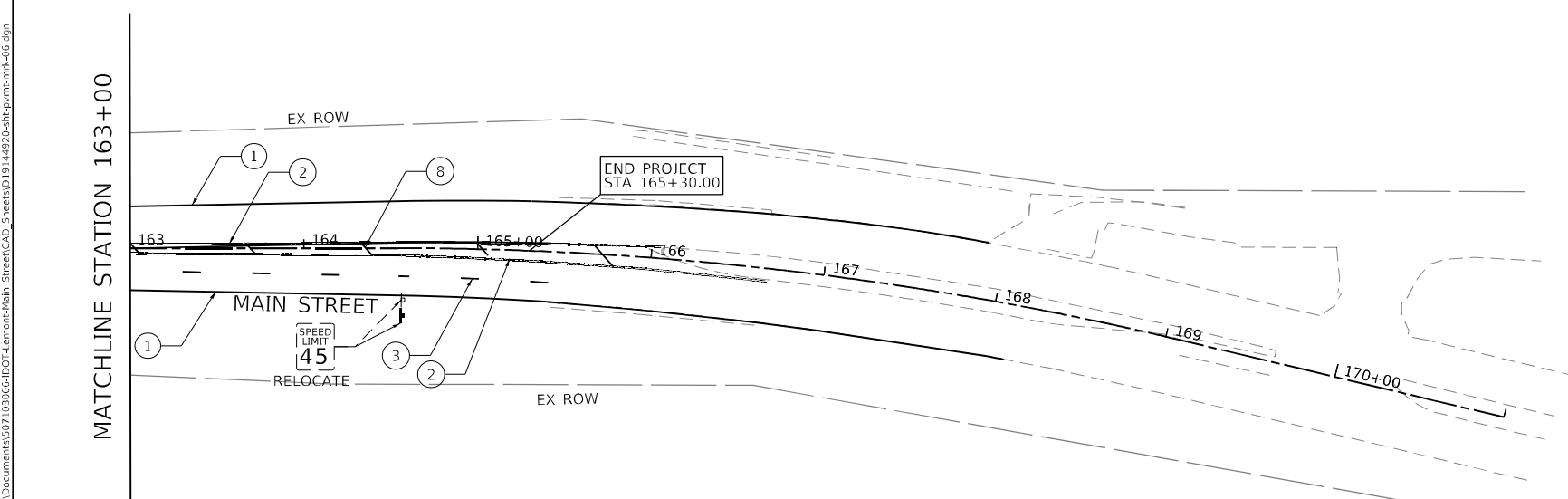
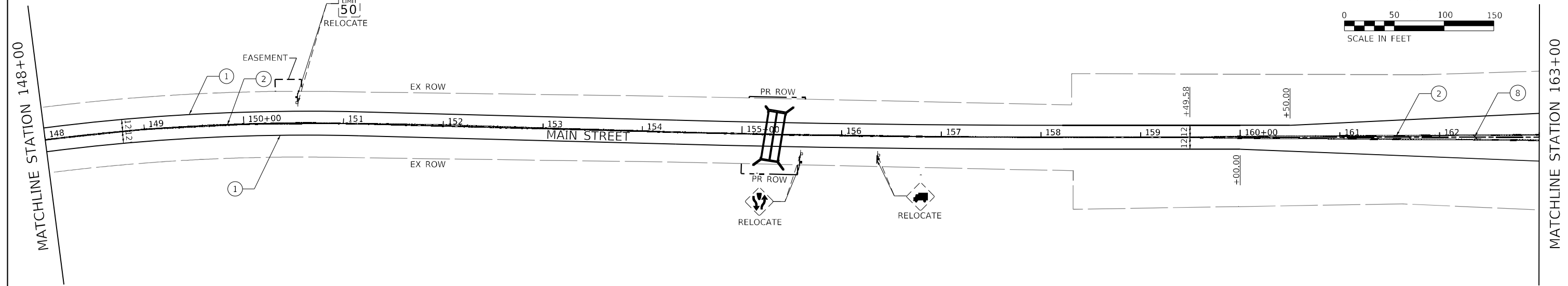
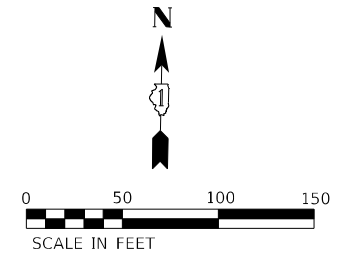
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DRAWN - MY	REVISED -
CHECKED - KWB	REVISED -
DATE - 06/20/2025	REVISED -

**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)
- 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)

MODEL: Default  
 FILE: Main\_163+00.dwg  
 PLOT: 1/26/2026 10:00:00 AM  
 USER: jsc-user201  
 PROJECT: 2020-142-C&DR  
 SHEET: PM-06 OF PM-06 SHEETS  
 CONTRACT: 62L30

**M**  
 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**NOTT**  
**MACDONALD**

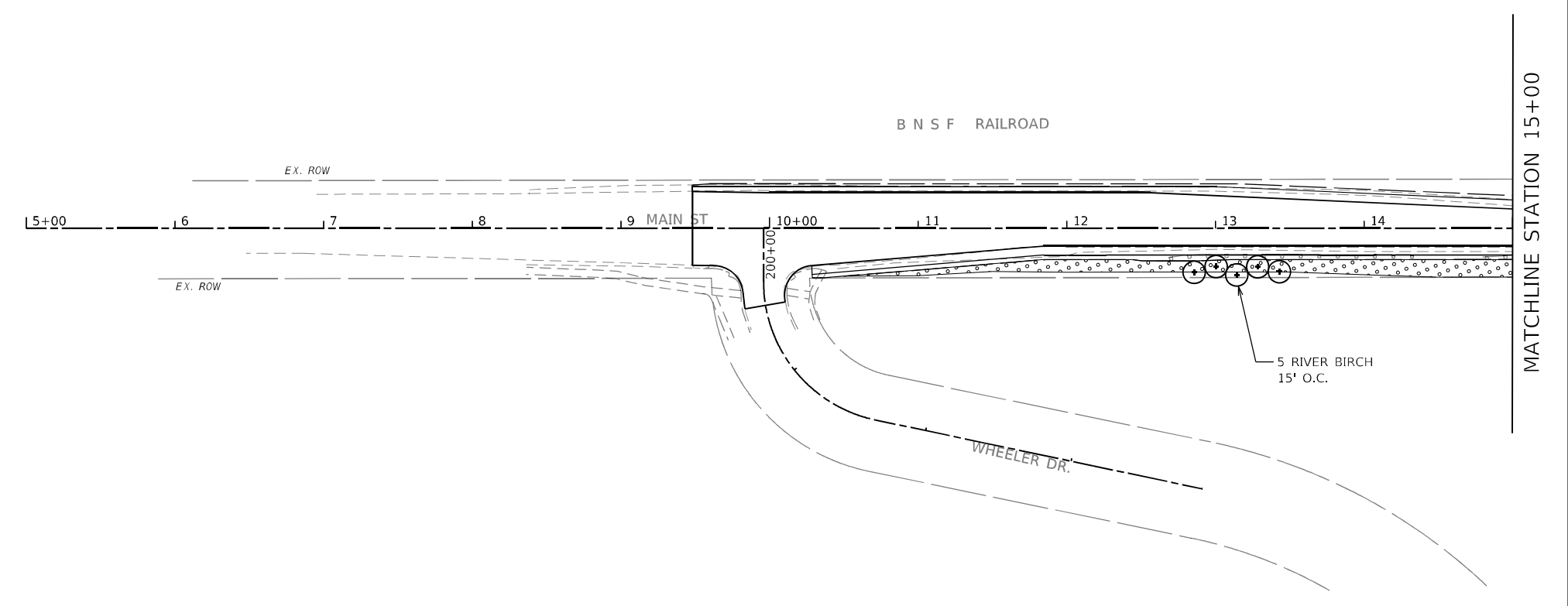
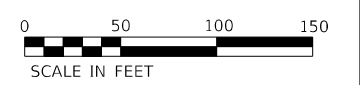
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

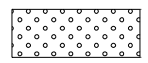
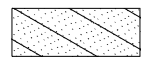


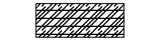


**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**PAVEMENT MARKING AND SIGNAGE PLAN**

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: M:\MFC\_2025\mfc2025\mfc2025\mfc2025\DOT-Landscape\Main\_Street\CAD\_Sheets\DOT-144820-sh-LSP-01.dgn  
 MOTT MACDONALD

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

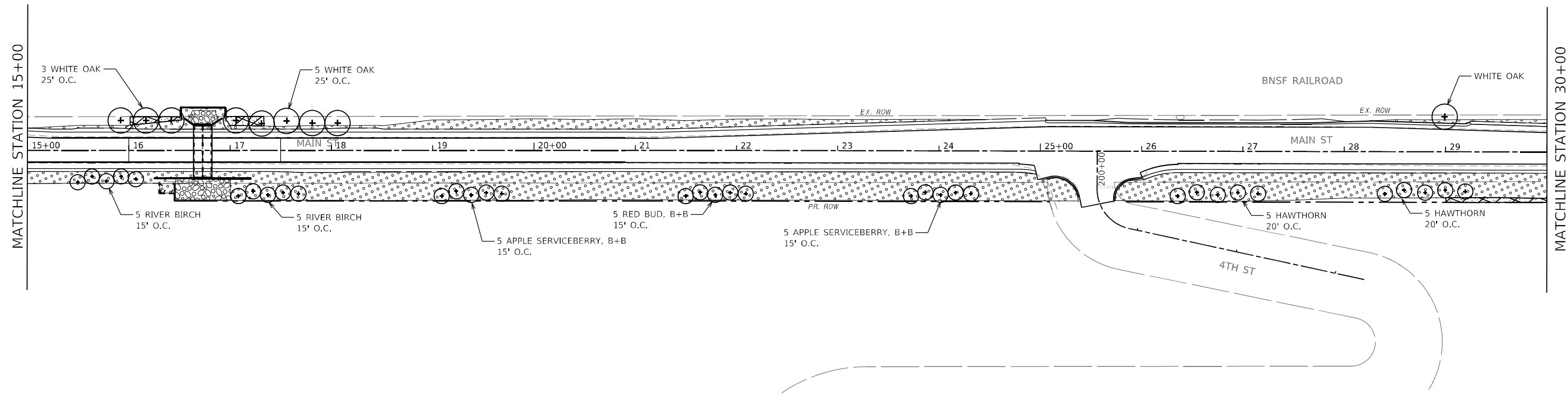
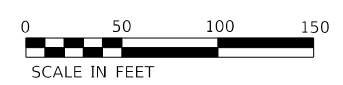
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PLOT DATE = 1/26/2026	CHECKED - SJP	REVISED -
	DATE - 06/20/2025	REVISED -

**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: Main\_LSP-02.dwg  
 PLOT DATE: 1/26/2026  
 USER: user  
 PROJECT: 2020-142-C&DR  
 SHEET: 128  
 CONTRACT: 62L30

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

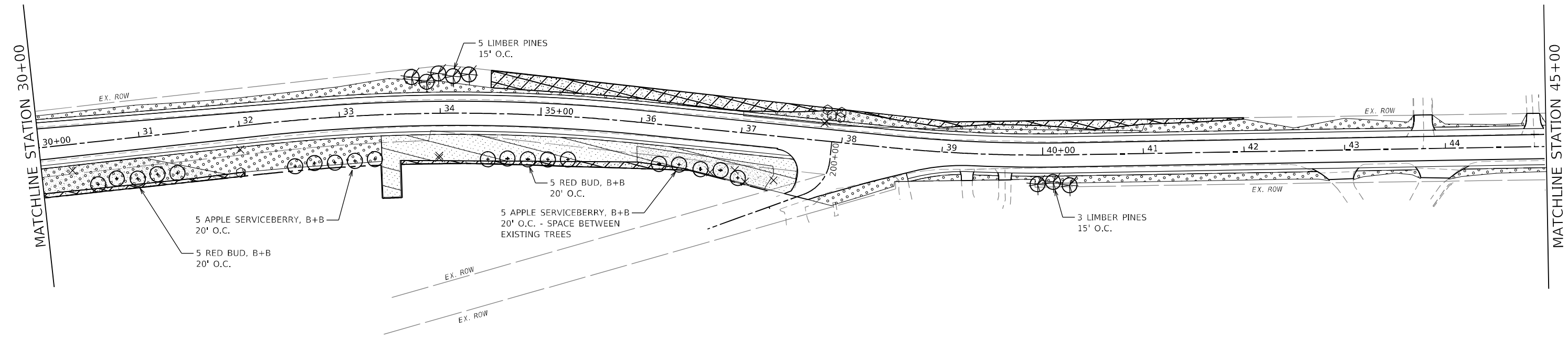
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PLOT SCALE = 1/200,0000' / ft.	CHECKED - SJP	REVISED -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

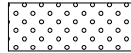






**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

SCALE: 1"=50'    SHEET LSP-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  
 FILE: Mainfile  
 PROJECT: 2020-142-C&DR  
 USER: jmacdonald  
 DATE: 1/26/2026  
 DRAWING: LSP-03.dwg

**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

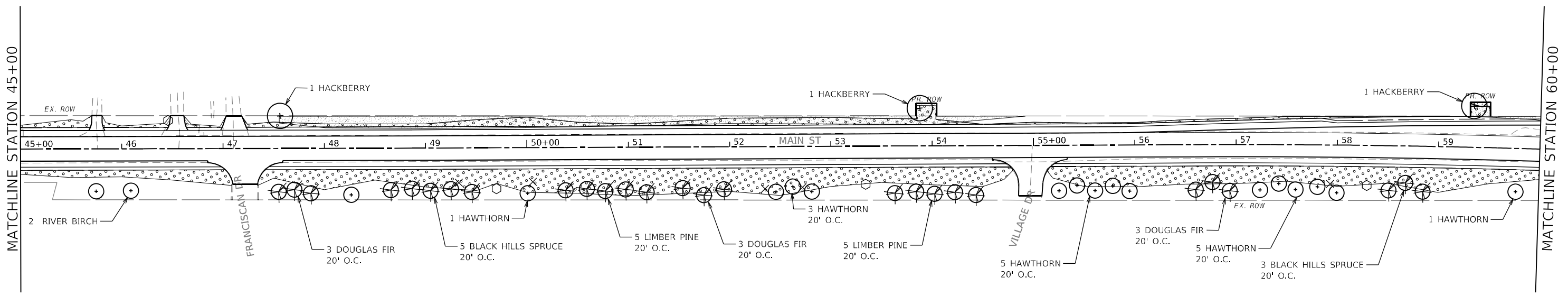
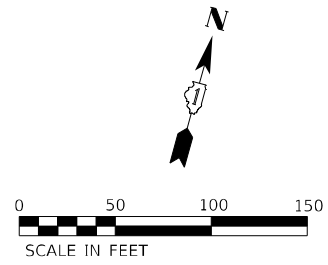
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

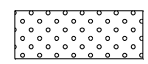
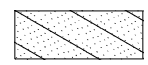
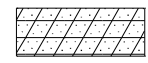

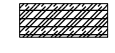


**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

SCALE: 1"=50'    SHEET LSP-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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**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

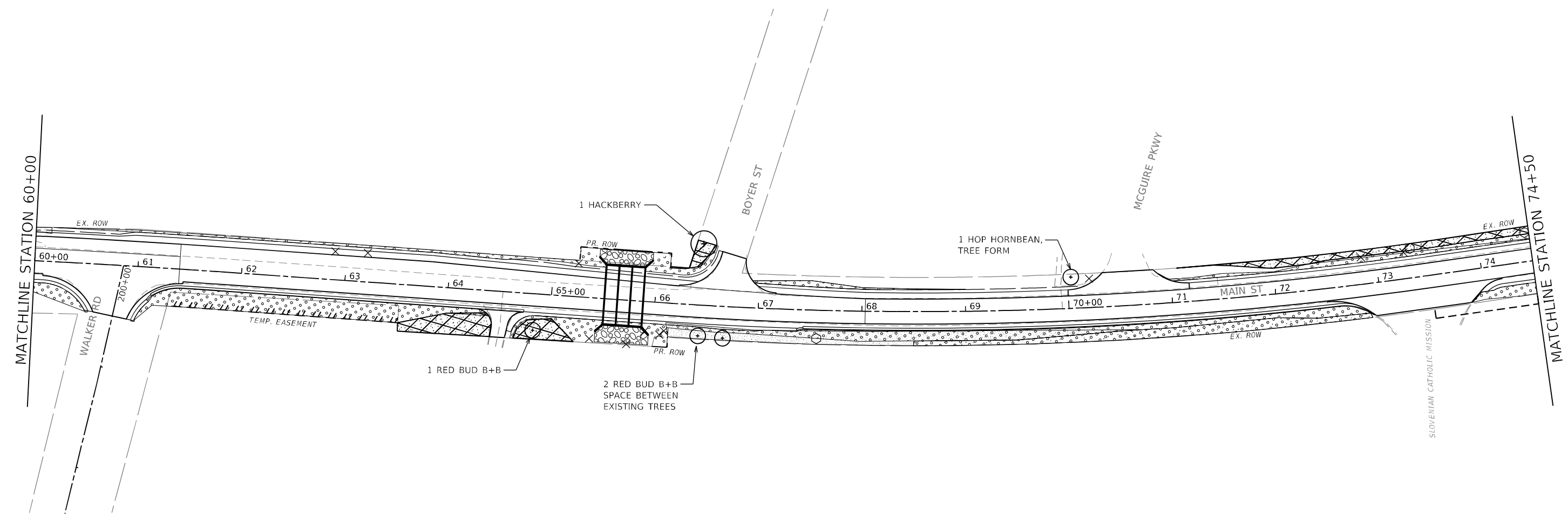
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DRAWN - JJJ	REVISOR -	
PLOT SCALE = 1/200,0000' / ft.	CHECKED - KWB	REVISOR -
PLOT DATE = 1/26/2026	DATE - 06/20/2025	REVISOR -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

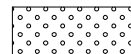

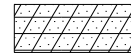

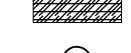


**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

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  
 FILE: Main\_LSP-05.dwg  
 PLOT DATE: 1/26/2026  
 USER: user201  
 PROJECT: 2020-142-C&DR  
 SHEET: 131 OF 131

**M**  
 MOTT  
 MACDONALD

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

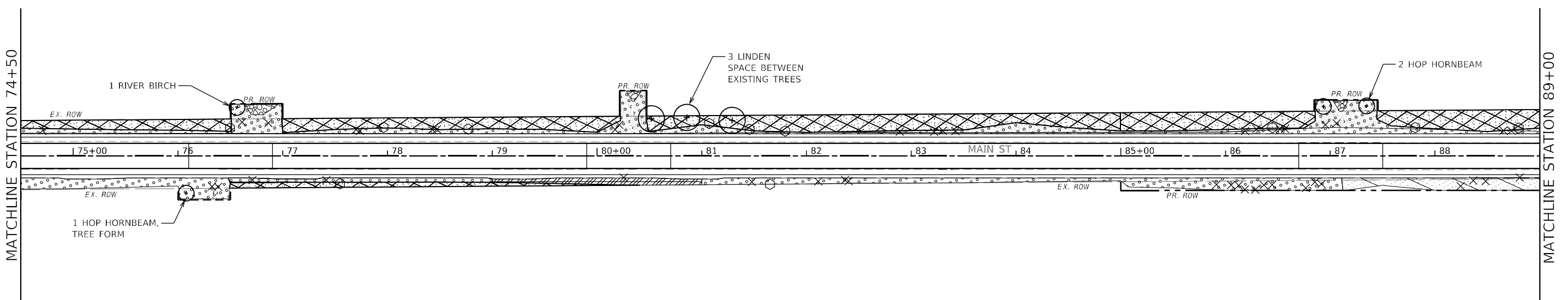
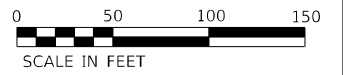
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

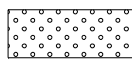

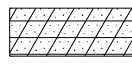




**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 LANDSCAPE PLAN**

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

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 MOTT MACDONALD

**M** 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**MOTT MACDONALD**

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	DATE - 06/20/2025	REVISED -

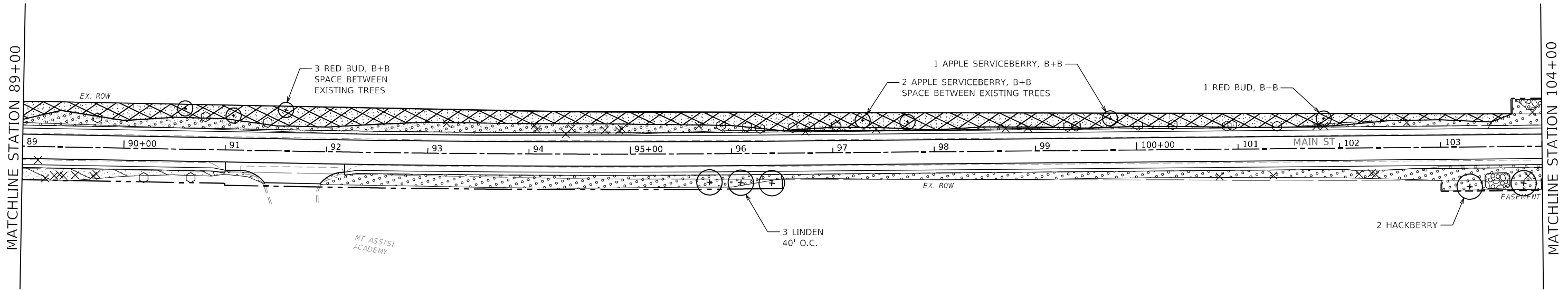
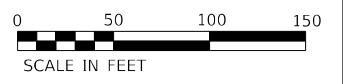
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

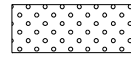
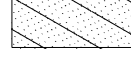
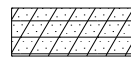

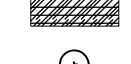


SCALE: 1"=50'    SHEET LSP-06 OF LSP-12 SHEETS    STA. 74+50    TO STA. 89+00

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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 PROJECT: 2020-142-C&DR  
 USER: user-201  
 COMMAND: user-201  
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**M**  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**MOTT  
 MACDONALD**

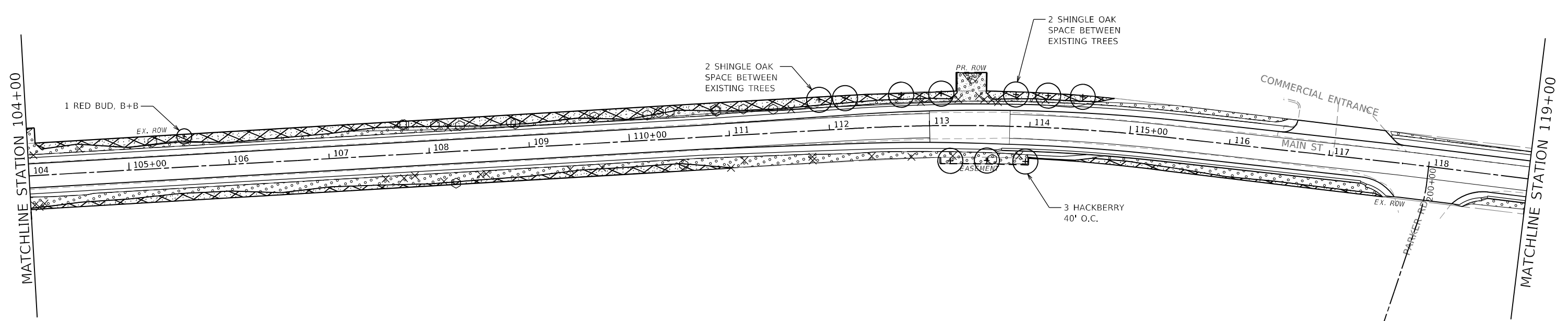
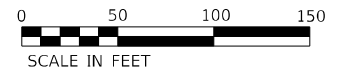
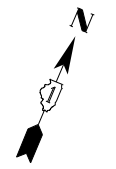
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

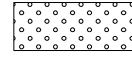

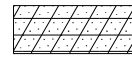




**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 LANDSCAPE PLAN**

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	

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



**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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 USER: mottmacdonald  
 PROJECT: 2020-142-C&DR  
 SHEET: LSP-08 OF LSP-12 SHEETS  
 STA: 104+00 TO STA: 119+00  
 CONTRACT NO. 62L30

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

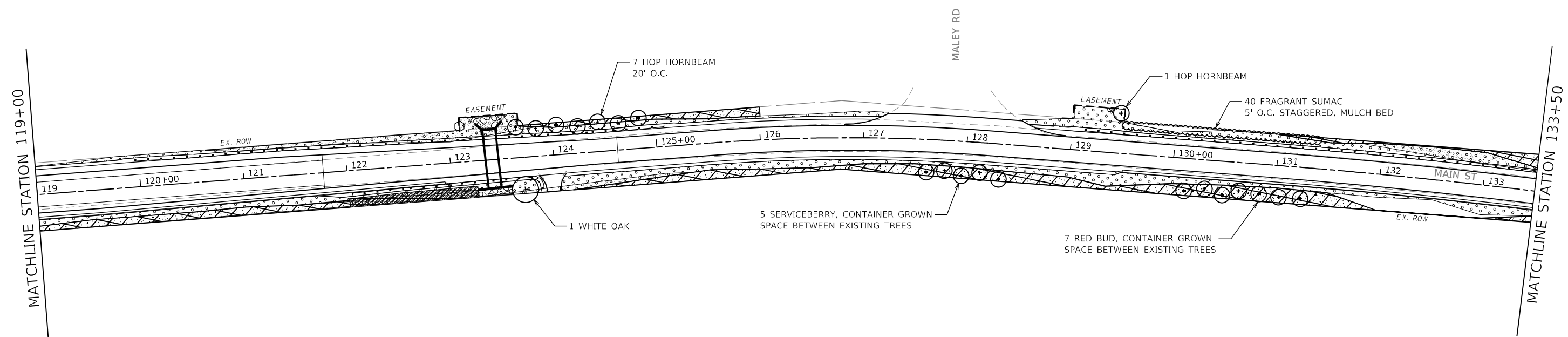
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

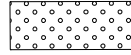
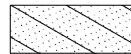





**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 LANDSCAPE PLAN**

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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 PROJECT: 2020-142-C&DR  
 SHEET: 135 OF 316  
 CONTRACT: 62L30

**M** 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**MOTT**  
**MACDONALD**

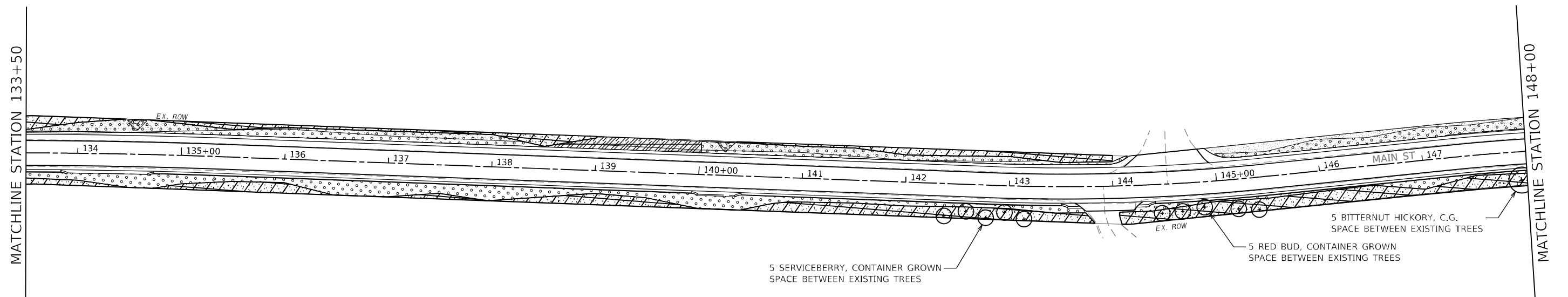
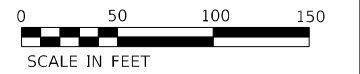
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

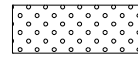

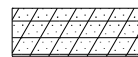




**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

SCALE: 1"=50'    SHEET LSP-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

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**M**  
MOTT  
MACDONALD  
10 S LaSalle St., #2500,  
Chicago, IL 60603

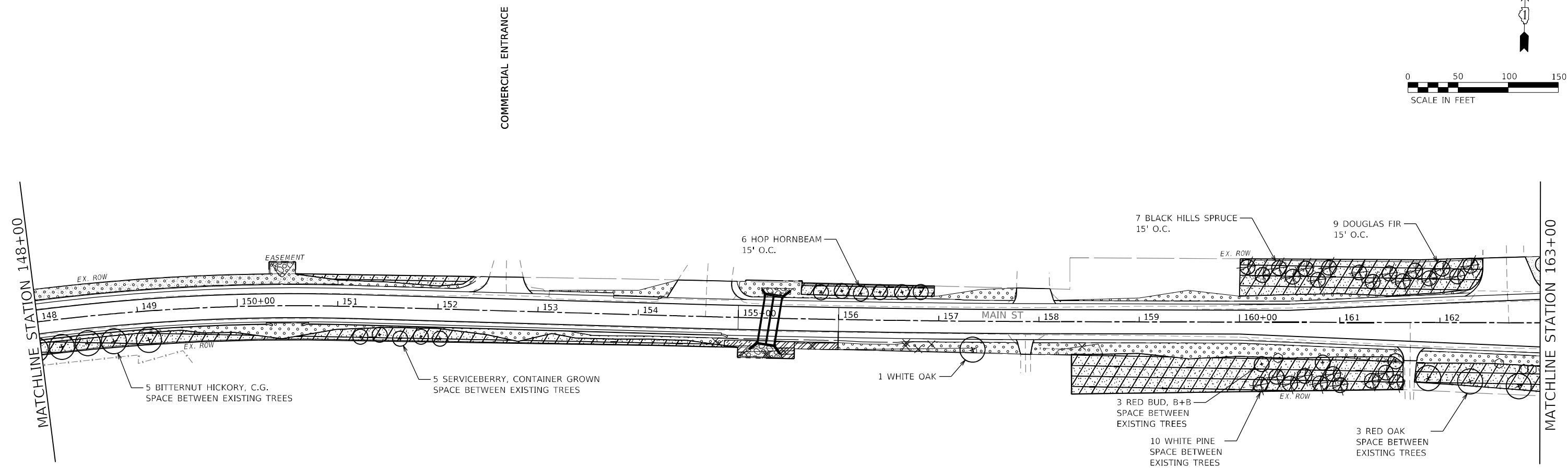
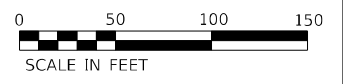
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

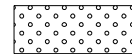






**MAIN STREET FROM WHEELER DRIVE TO IL 83  
LANDSCAPE PLAN**

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.
3587	2020-142-C&DR	COOK	316	136
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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**M** 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

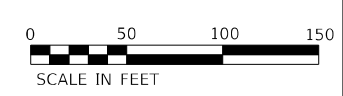
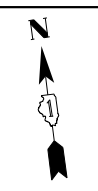
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**LANDSCAPE PLAN**

SCALE: 1"=50'    SHEET LSP-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				



(183) (11-17)  
ARCHER AVE



**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

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DRAWN - MY	REVISIONS -	
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**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				

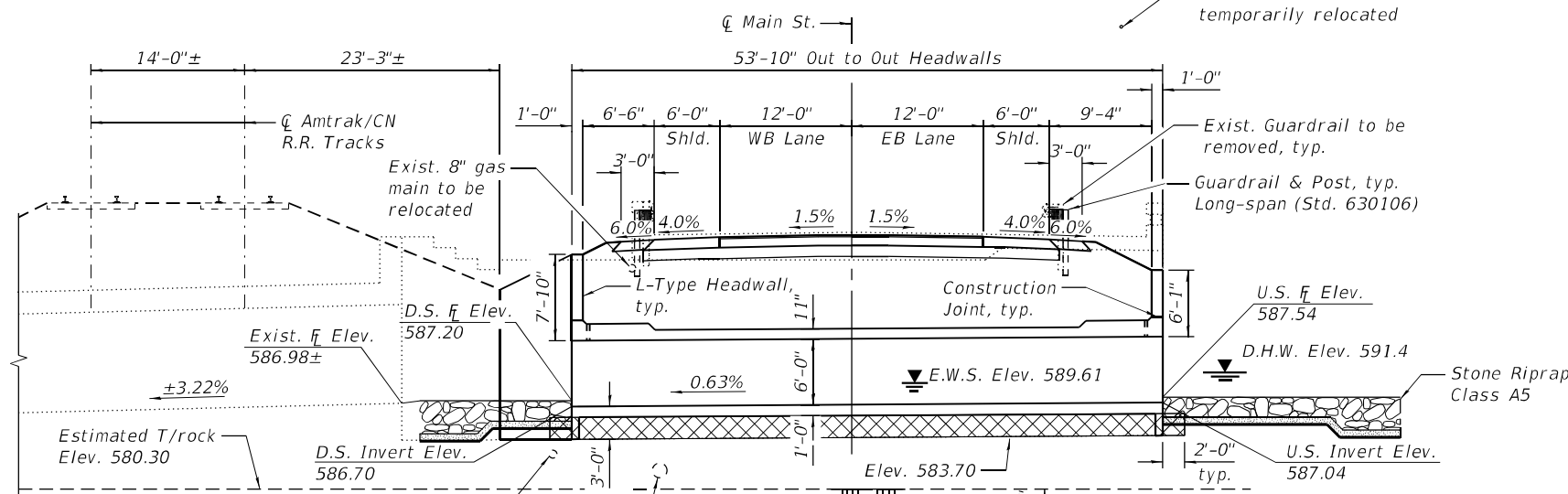
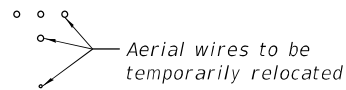
**WATERWAY INFORMATION**

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 Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	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	

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.

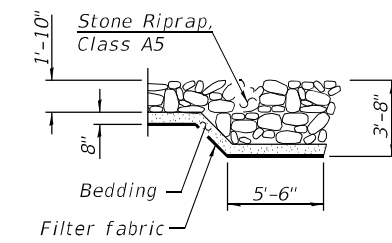
No salvage.



**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**

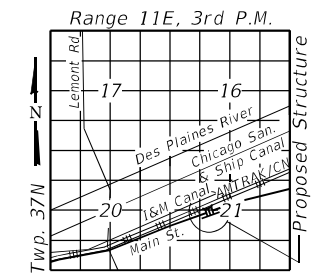
f'c = 3,500 psi (Concrete)  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50 - soldier pile)

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

**APPROVED**  
For Structural Adequacy Only  
*Justin Mann*  
Engineer of Bridges & Structures



PROFILE GRADE  
(along centerline roadway)



LOCATION SKETCH

**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

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

USER NAME =	DESIGNED - MM	REVISED -
PLOT SCALE =	CHECKED - RH	REVISED -
PLOT DATE =	DRAWN - MM	REVISED -
	CHECKED - RH	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
SN 016-0984  
SHEET 1 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	139
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES:**

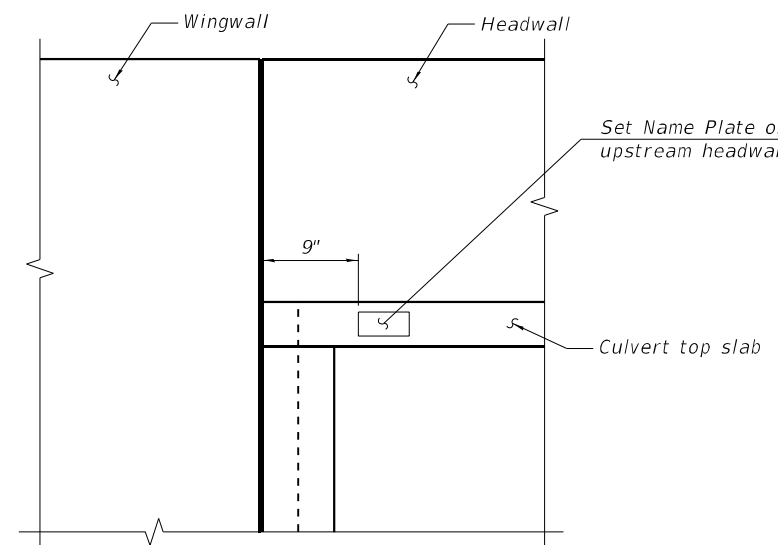
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The location of existing drainage structures, telephone lines, electric lines, water service lines, gas mains, and other utility facilities as shown on the plans are based on field 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- Protective coat shall be applied to the top and exposed inside vertical faces of wingwalls head walls.
- Excavation behind existing walls shall be performed to balance front and back soil pressure before removing existing superstructure.
- Precast alternate is not allowed.
- 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.
- 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.
- 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.
- 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**

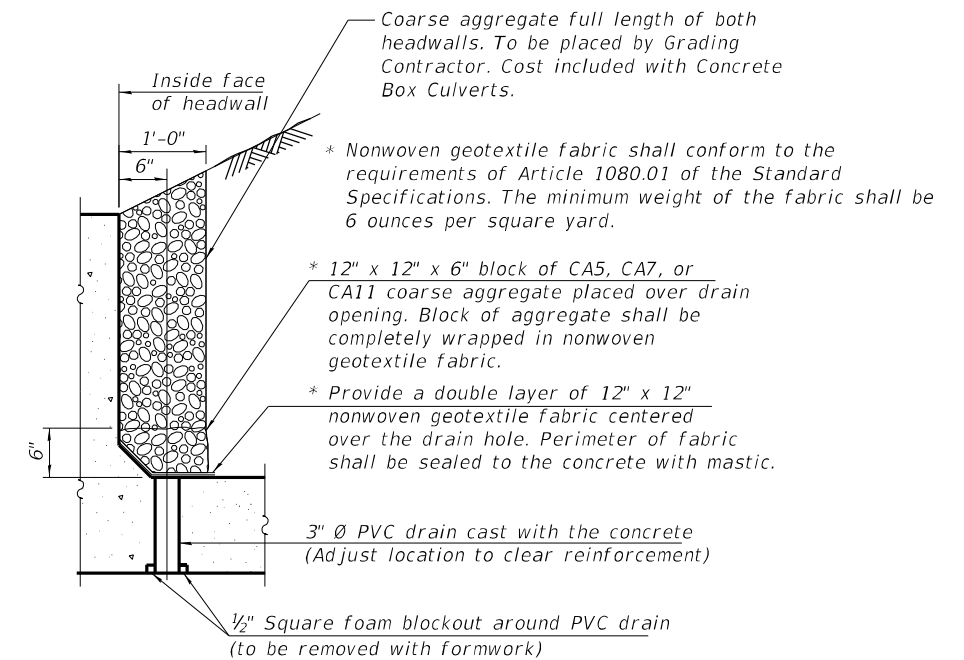
ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	175
Filter Fabric	Sq. Yd.	175
Aggregate Subgrade Improvement	Cu. Yd.	96
Removal Of Existing Structures	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	96
Concrete Structures	Cu. Yd.	39.3
Protective Coat	Sq. Yd.	24
Stud Shear Connectors	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**

- GENERAL PLAN AND ELEVATION
- GENERAL NOTES AND BILL OF MATERIALS
- DEMOLITION PLAN
- TEMPORARY SOIL RETENTION SYSTEM PLAN AND ELEVATION
- CULVERT PLAN BOTTOM SLAB DETAILS
- CULVERT PLAN TOP SLAB DETAILS
- CULVERT SECTION AND DETAILS
- SOUTHEAST AND SOUTHWEST WINGWALL PLAN AND ELEVATION
- NORTHEAST AND NORTHWEST WINGWALL PLAN AND ELEVATION
- REINFORCEMENT SCHEDULE
- SOLDIER PILE WINGWALL DETAILS
- SOIL BORING LOGS



**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

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

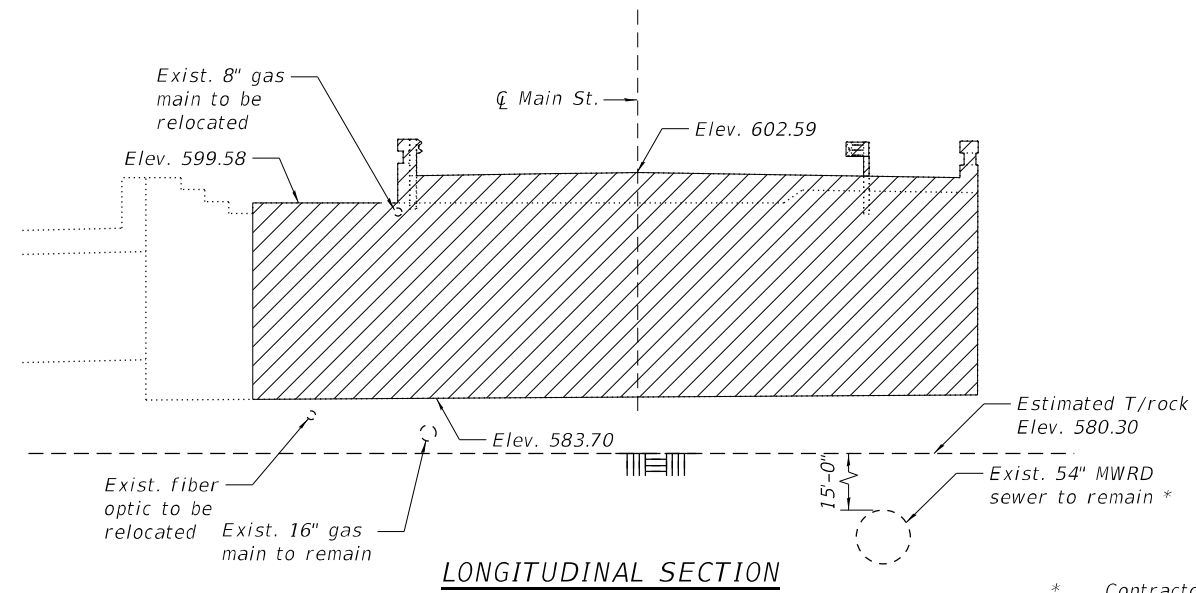
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**STATE OF ILLINOIS  
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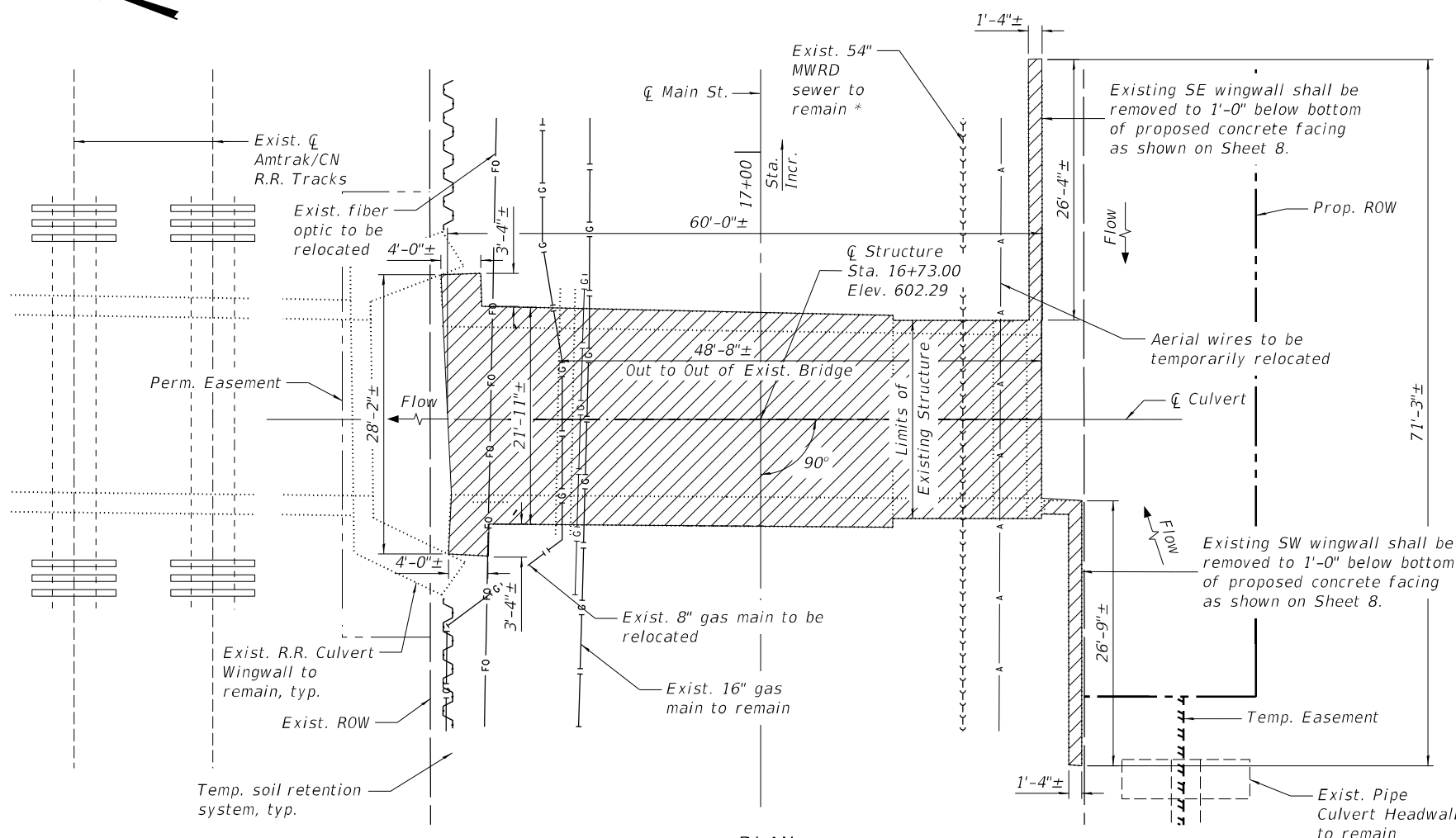
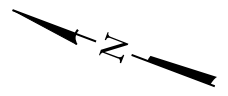
**GENERAL NOTES AND BILL OF MATERIALS  
 SN 016-0984**

SHEET 2 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	140
CONTRACT NO. 62L30				
ILLINOIS		FED. AID PROJECT		



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



- LEGEND**
- Removal Of Existing Structures
  - Existing underground gas main
  - Existing underground fiber optic
  - Existing underground sanitary sewer

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Removal Of Existing Structures	Each	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN  
SN 016-0984

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62L30				

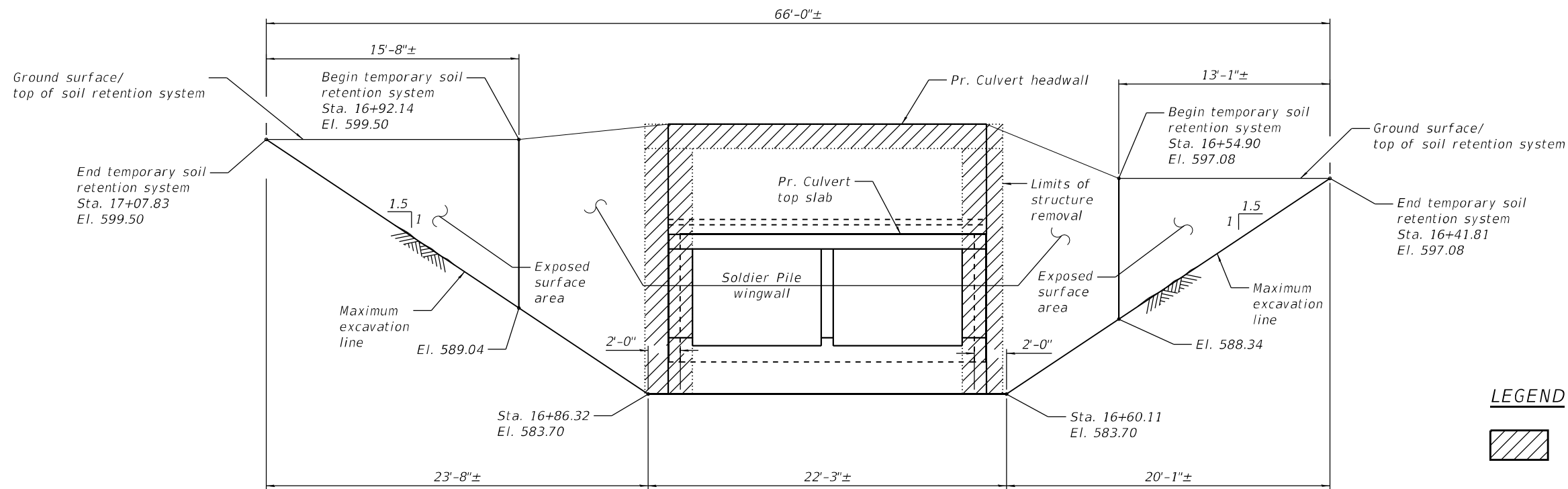
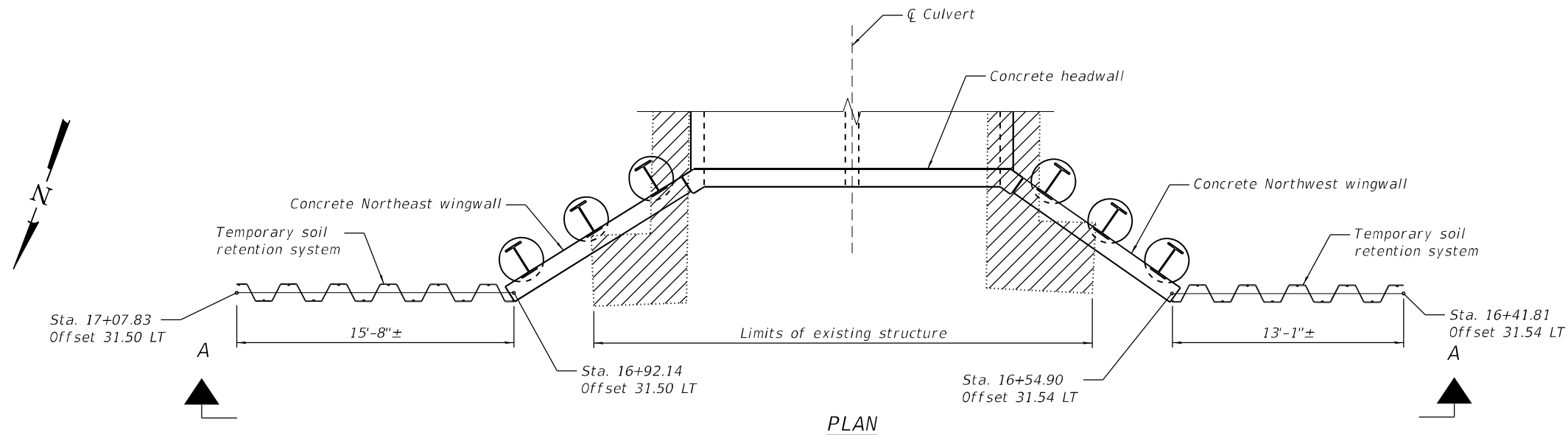
SHEET 3 OF 12 SHEETS

ILLINOIS FED. AID PROJECT

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	CHECKED - RH	REVISED -



**LEGEND**

Removal Of Existing Structures

**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.

**BILL OF MATERIAL**

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

**VIEW A-A**  
(Showing approximate limits of temporary soil retention system)

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

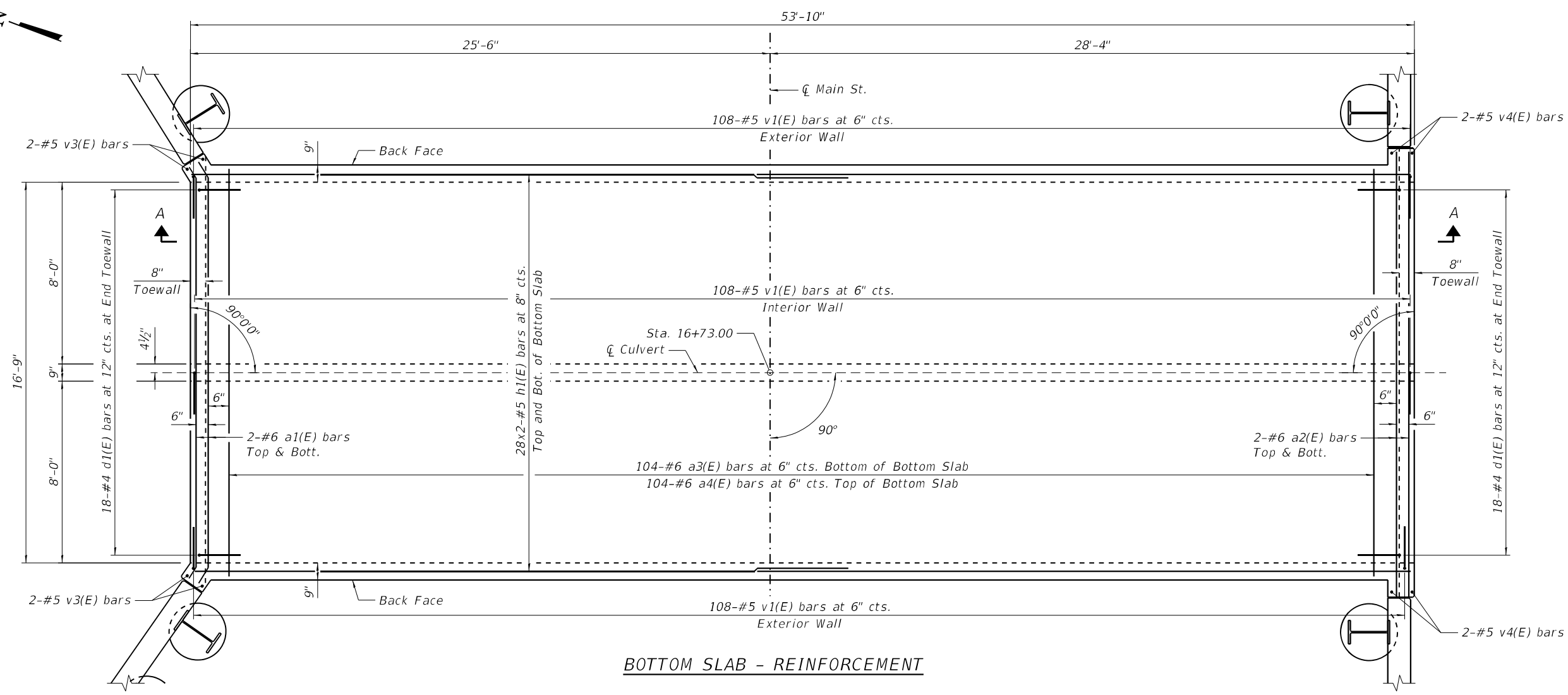
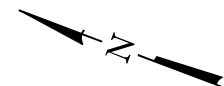
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**STATE OF ILLINOIS  
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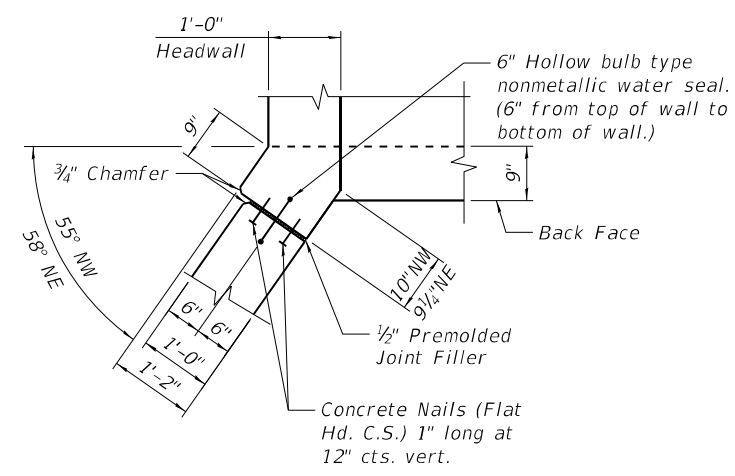
**TEMPORARY SOIL RETENTION SYSTEM PLAN AND ELEVATION  
SN 016-0984**

SHEET 4 OF 12 SHEETS

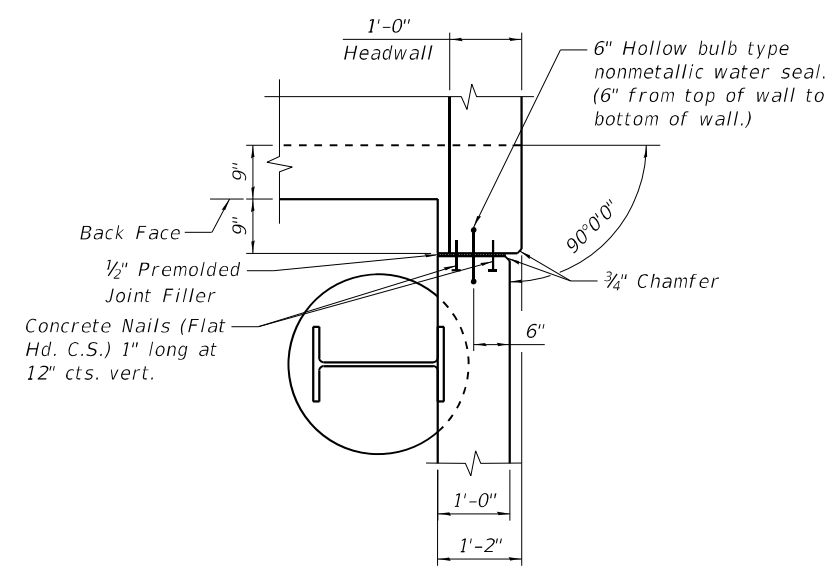
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3587	2020-142-C&DR	COOK	316	142
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				



**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

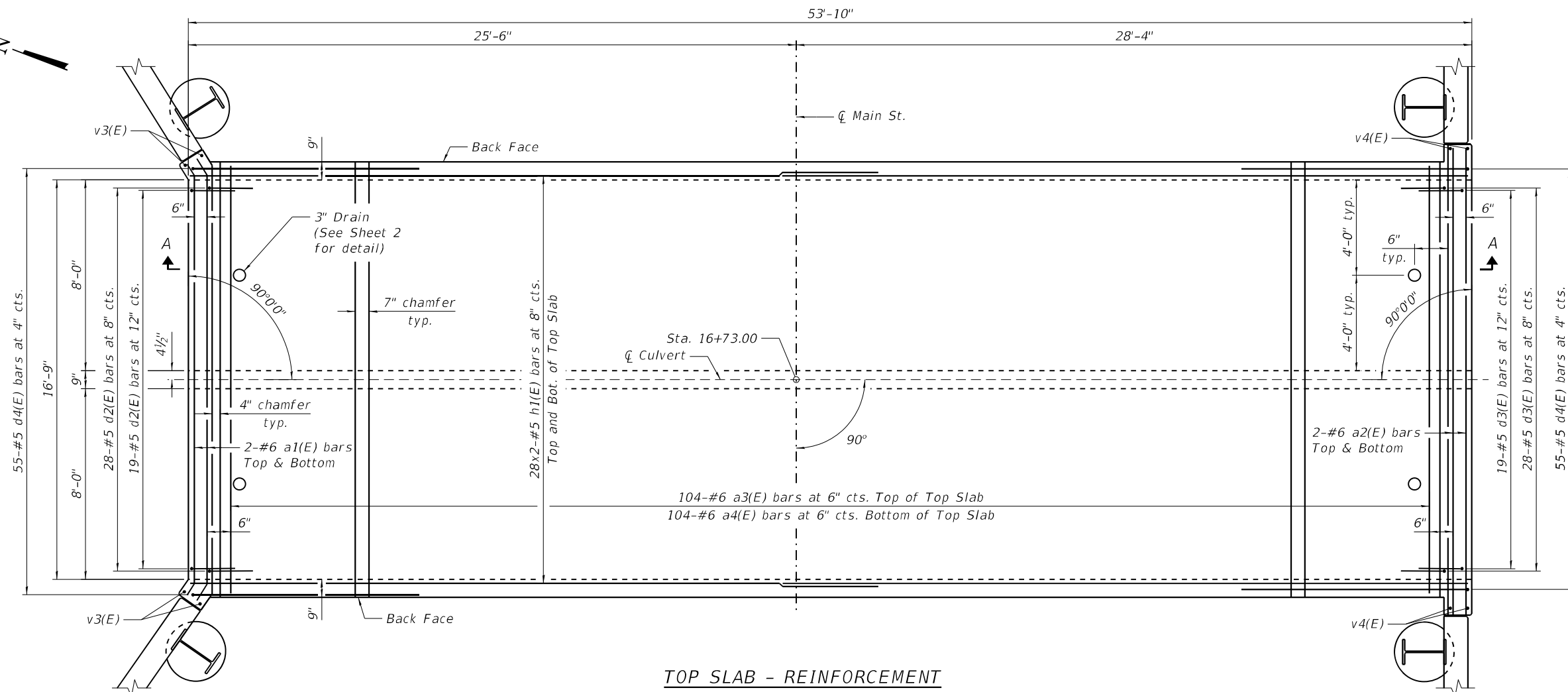
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

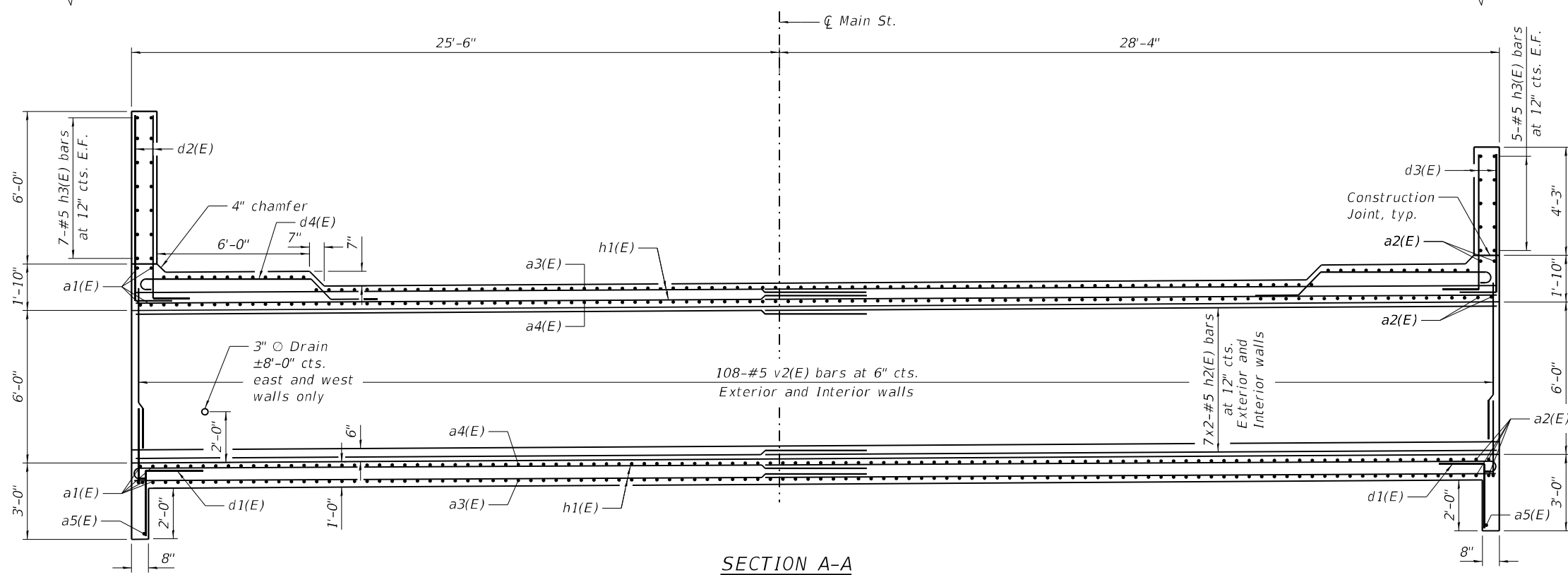
**CULVERT PLAN BOTTOM SLAB DETAILS  
SN 016-0984**

SHEET 5 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	143
CONTRACT NO. 62L30			ILLINOIS FED. AID PROJECT	



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  
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CHICAGO, ILLINOIS 60606

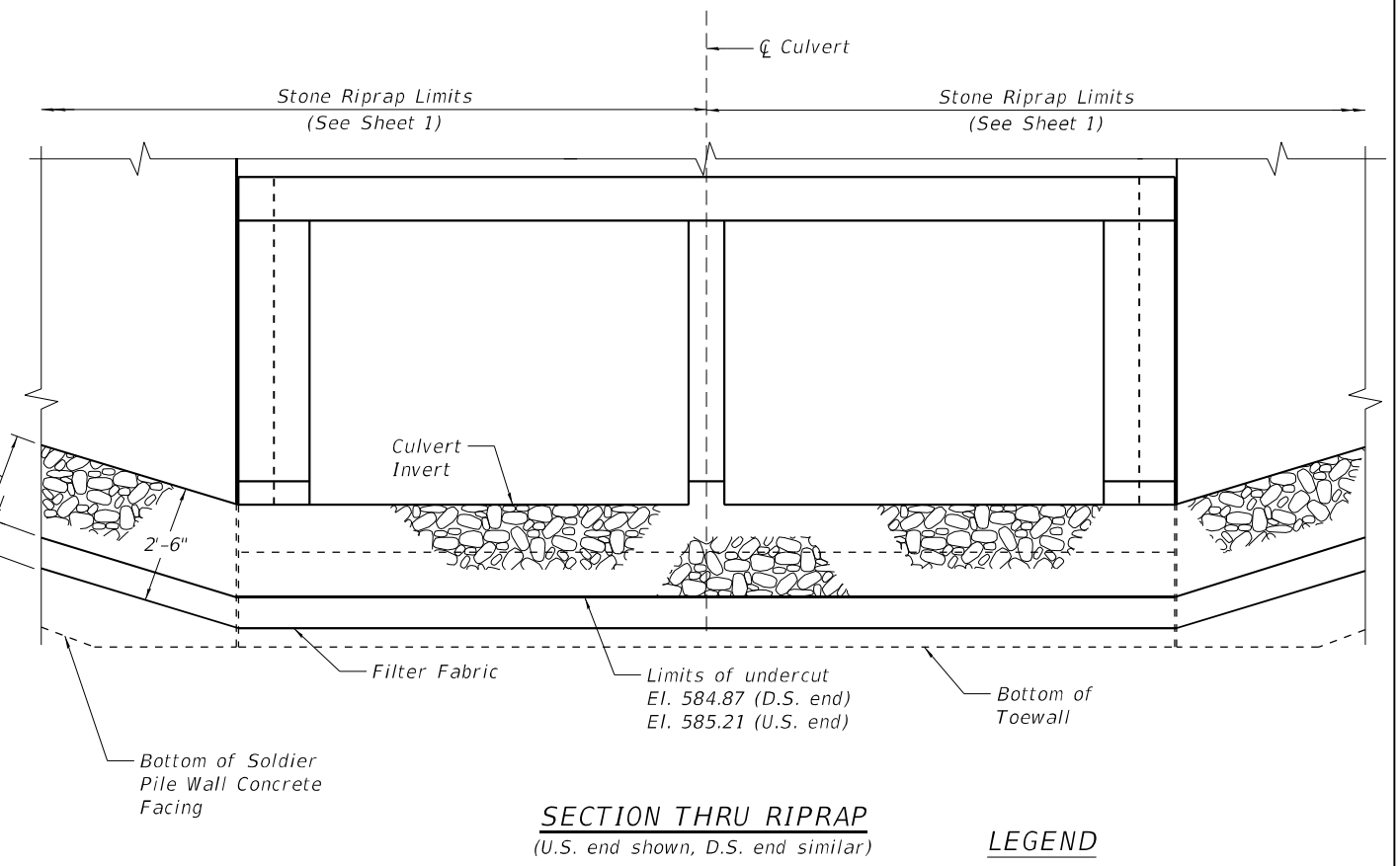
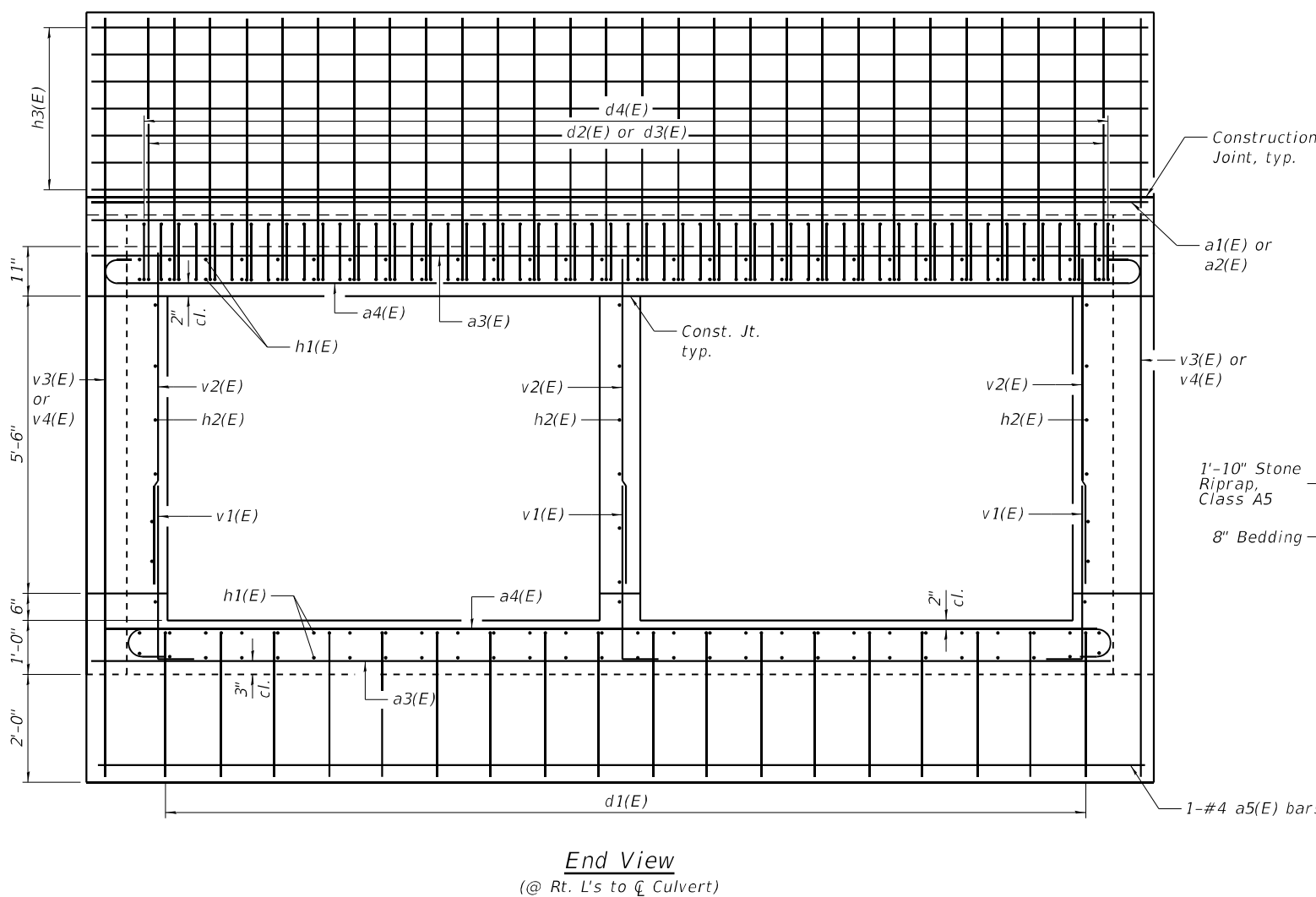
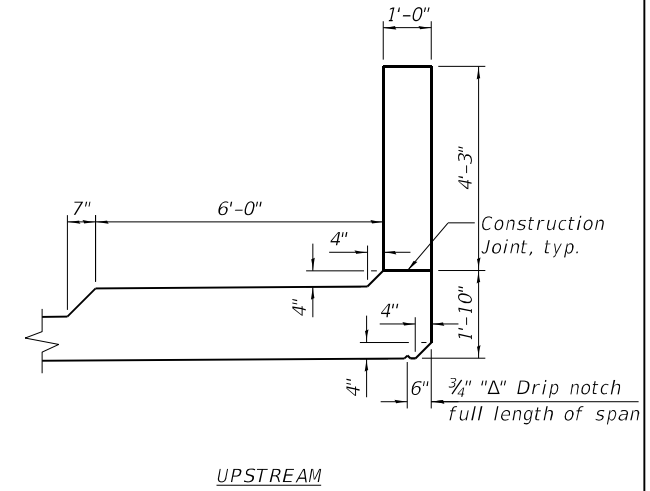
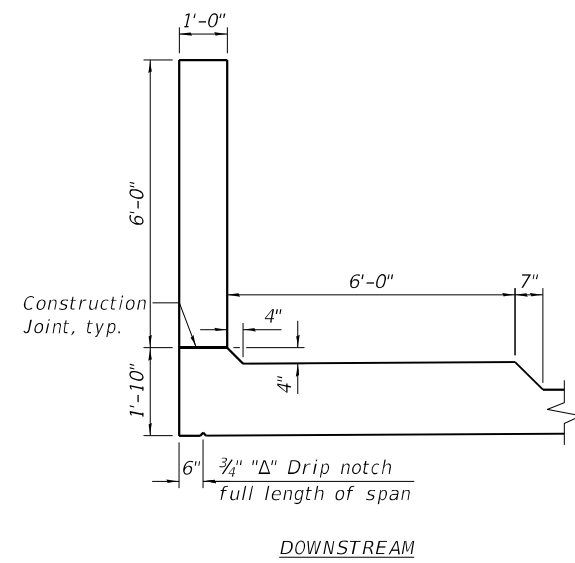
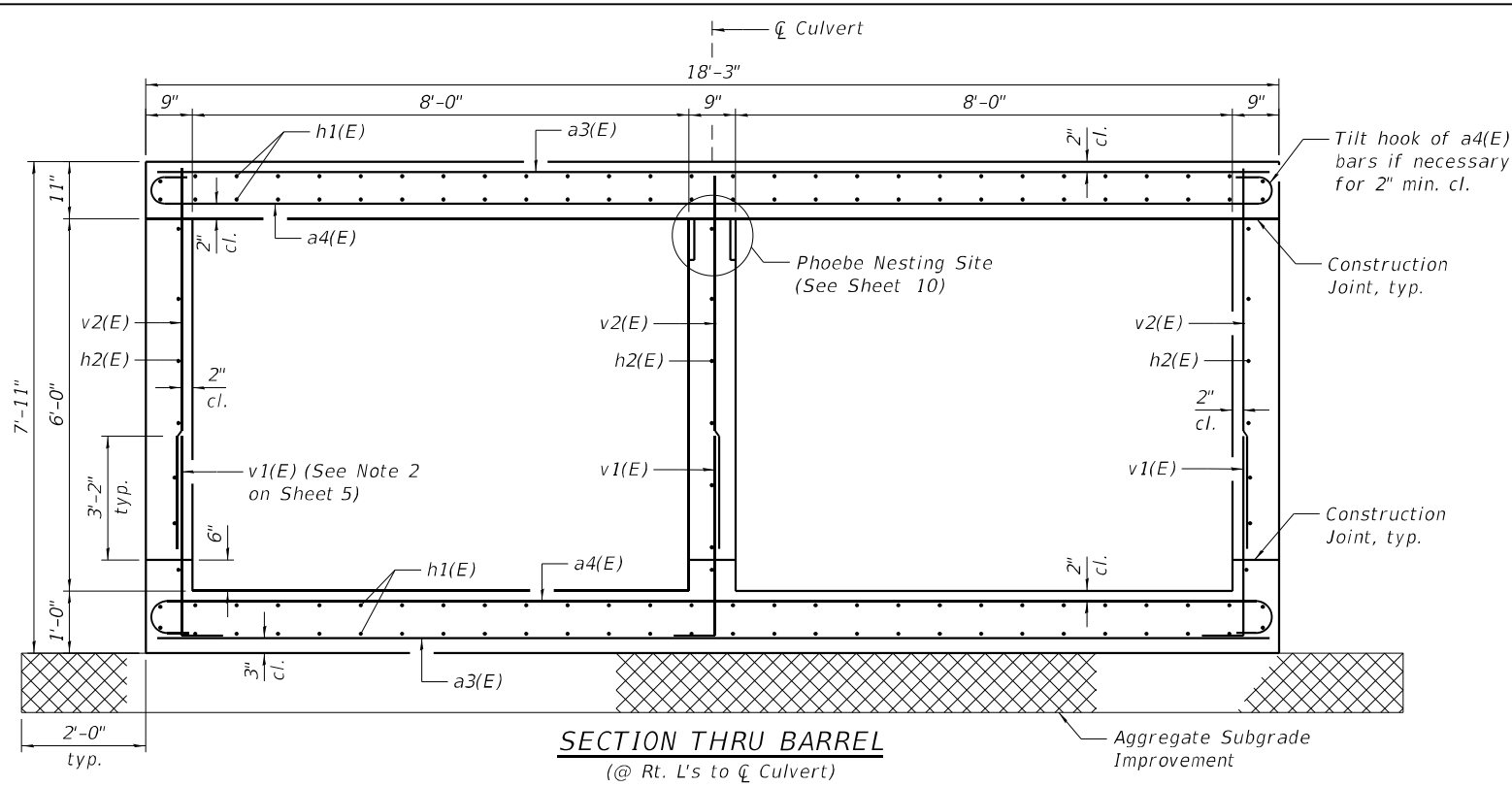
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN TOP SLAB DETAILS  
SN 016-0984

SHEET 6 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	144
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				



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

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

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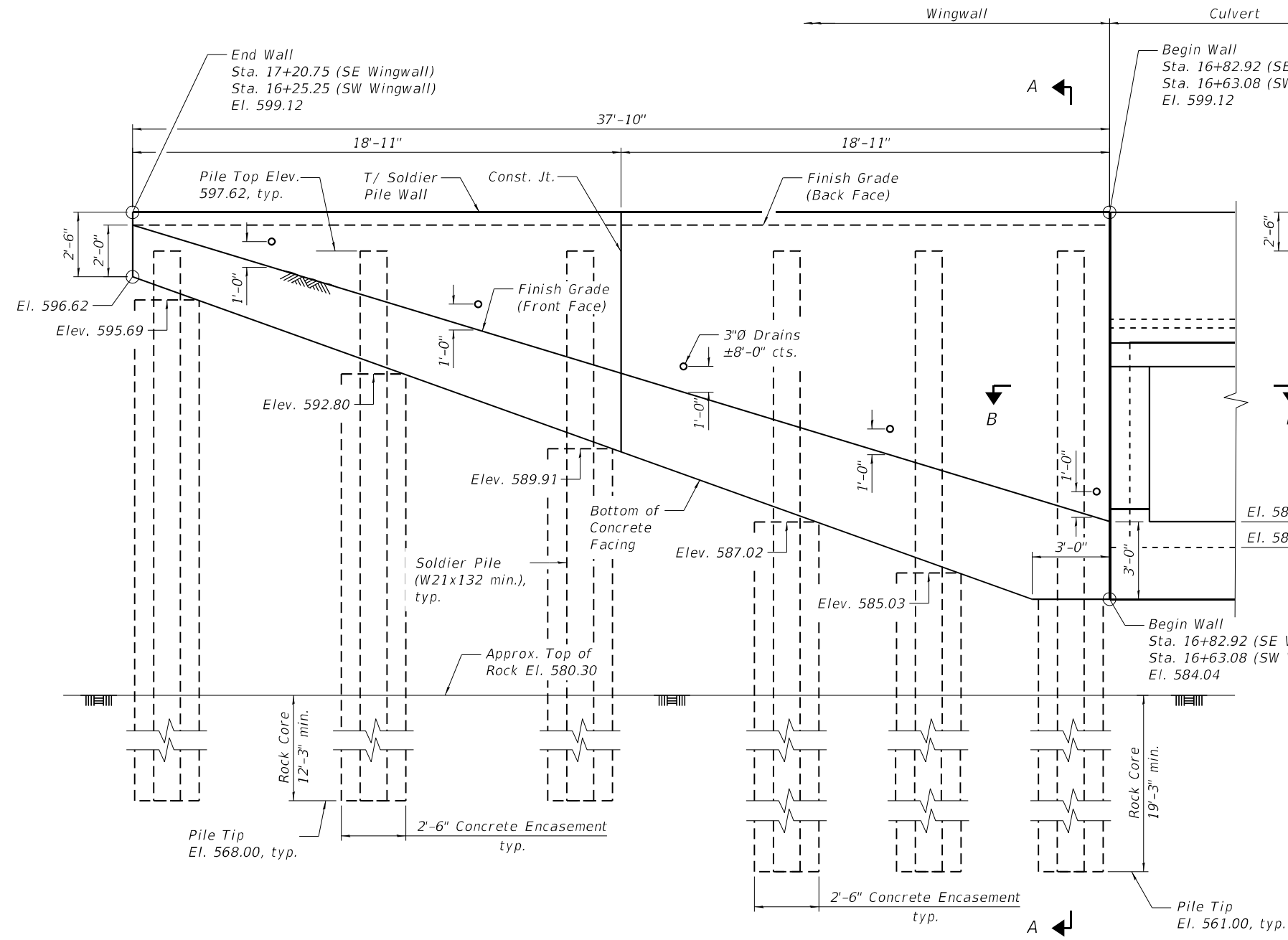
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT SECTION AND DETAILS  
 SN 016-0984**

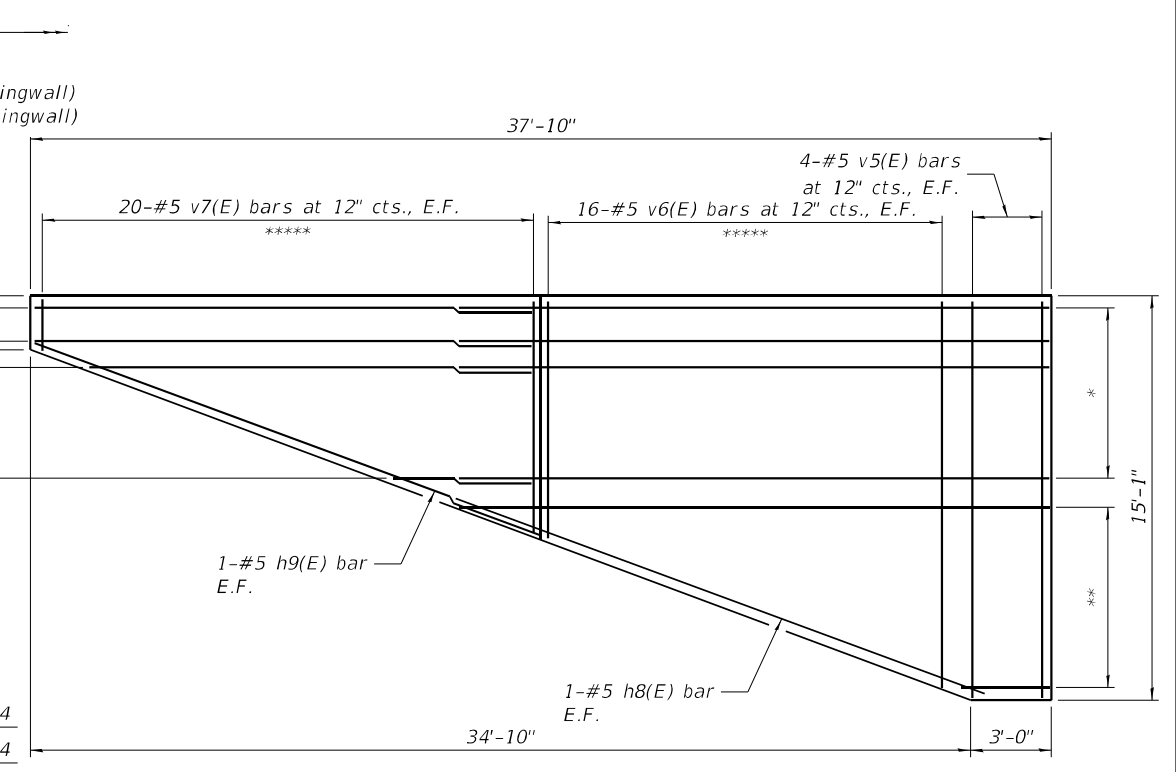
SHEET 7 OF 12 SHEETS

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

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**ELEVATION**  
 (SW wall is shown, SE wall is similar)

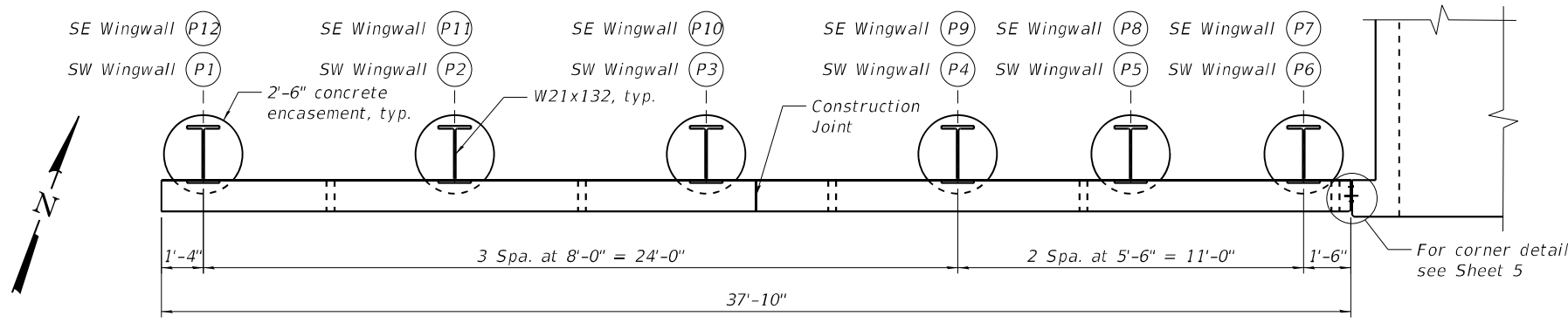


**ELEVATION**  
 (Showing Reinforcement, SW wingwall is shown, SE is similar)

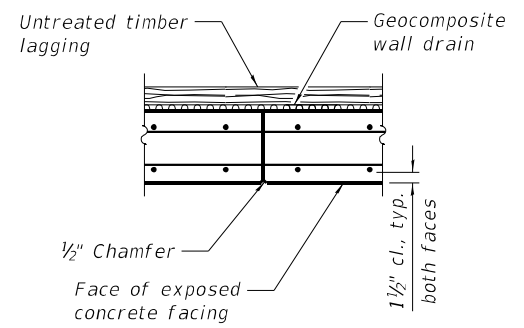
- \* 8-#5 h4(E) bars at 12" cts., E.F.  
 \*\* 8-#5 h5(E) bars at 12" cts., cut to fit and use the remainder of bars on opposite face.  
 \*\*\* 3-#5 h6(E) bars at 12" cts., E.F., lapped with h4(E)  
 \*\*\*\* 5-#5 h7(E) bars at 12" cts., lapped with h4(E), cut to fit and use the remainder of bars on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

**NOTES:**

- Contractor shall verify location of utilities prior to coring or drilling piles.
- For Soldier Pile Wingwall Construction Sequence and Notes, see Sheet 11.
- All Stations and offsets are taken from "C Main St."
- For Section A-A and Section B-B, see Sheet 11.
- For wall drainage details and Weep Hole Drain Detail, see Sheet 11.
- 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

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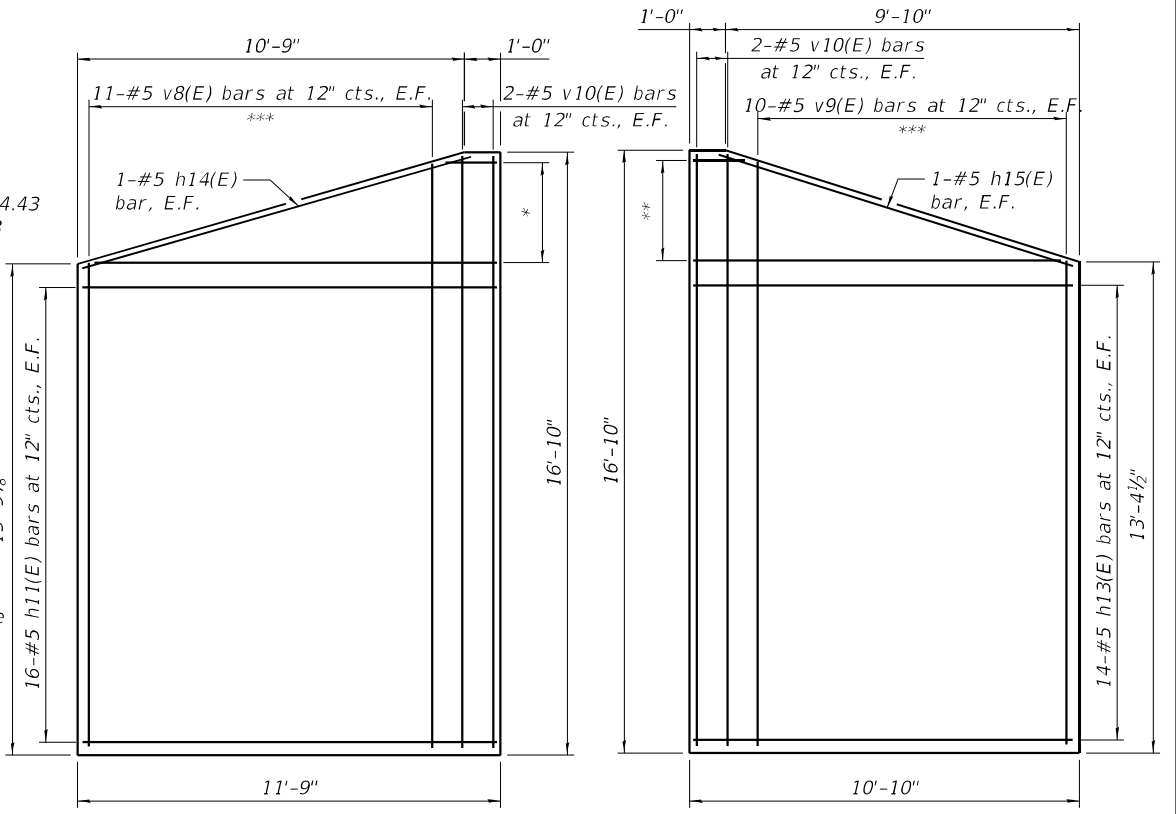
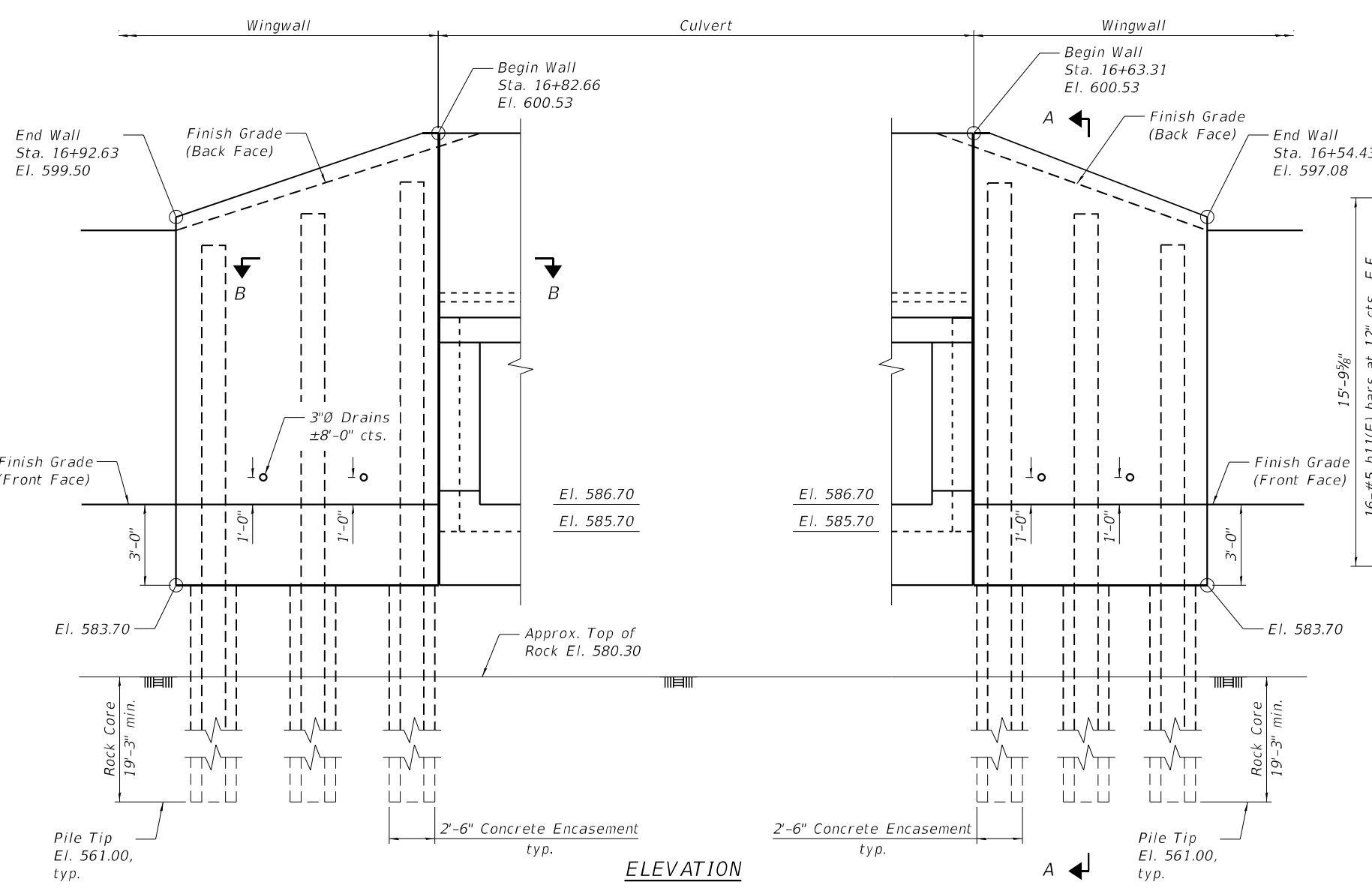
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**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				

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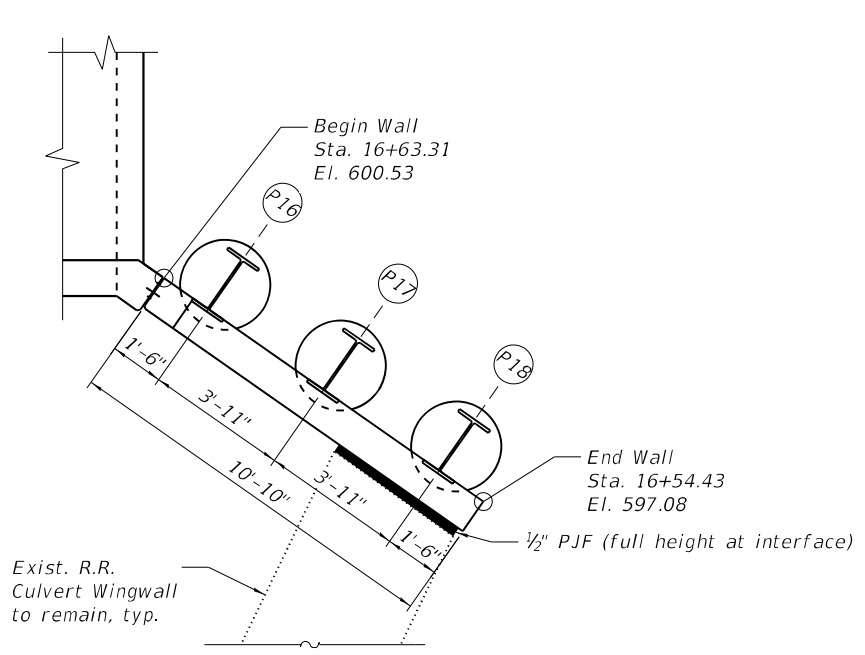
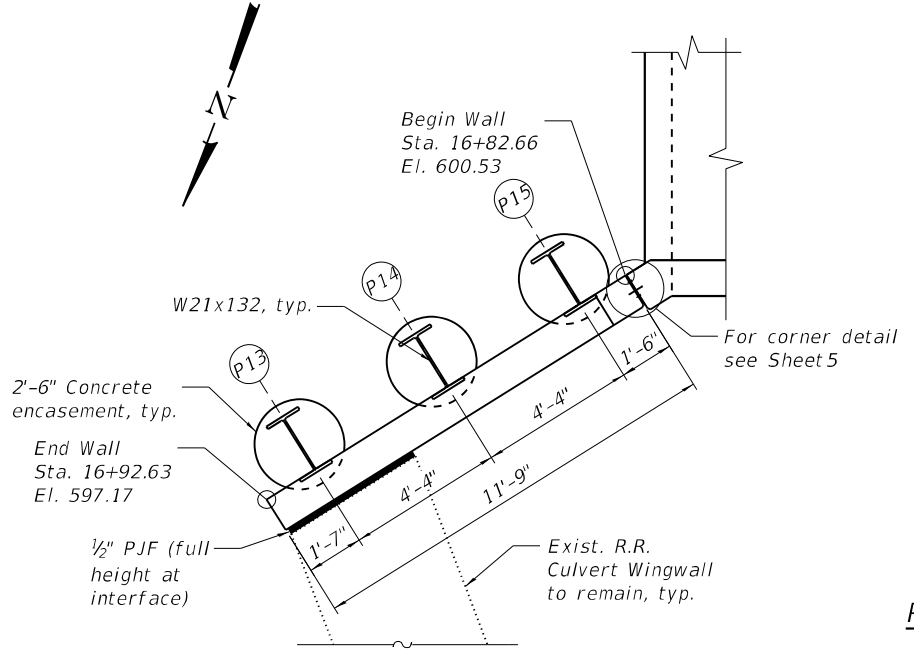
\* 2-#5 h10(E) bars at 12" cts., cut to fit and use the remainder on opposite face  
 \*\* 4-#5 h12(E) bars at 12" cts., cut to fit and use the remainder on opposite face  
 \*\*\* cut to fit and use the remainder on opposite face

**ELEVATION**  
(NE Wingwall, Showing Reinforcement)

**ELEVATION**  
(NW Wingwall, Showing Reinforcement)

**NOTES:**

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



**ELEVATION**

**ELEVATION**

**PLAN**

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

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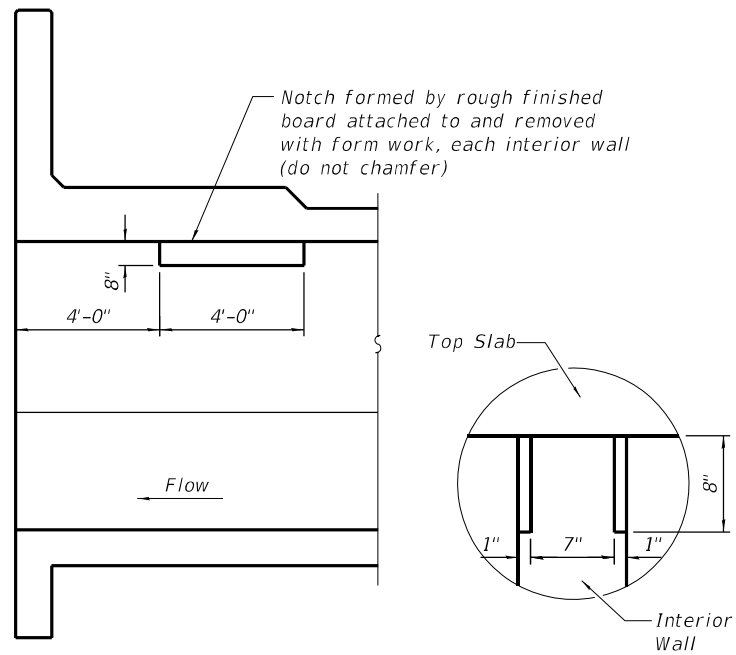
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**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.
3587	2020-142-C&DR	COOK	316	147
CONTRACT NO. 62L30				
ILLINOIS		FED. AID PROJECT		

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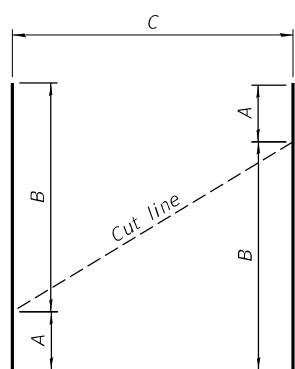


LONGITUDINAL SECTION

NOTCH DETAIL

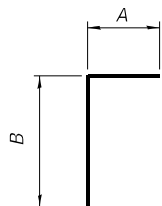
PHOEBE NESTING SITE DETAILS

(Near downstream end only)



FIELD CUTTING DIAGRAM

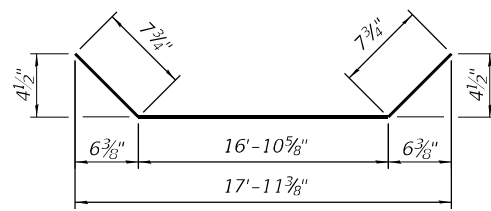
Order v6(E), v7(E), v8(E), v9(E), h5(E), h7(E), h10(E), and h12(E) full length.  
 Cut as shown and use remainder of bars in opposite face of wingwall.



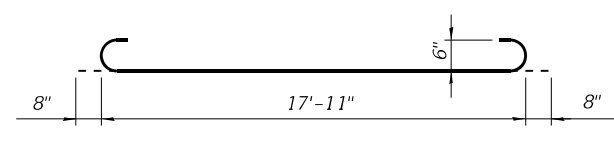
BARS v1(E), d1(E), d2(E) & d3(E)

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

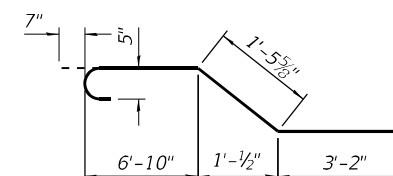
Bar	A	B
v1(E)	10"	5'-2"
d1(E)	1'-9"	2'-8"
d2(E)	10"	7'-5 1/4"
d3(E)	10"	5'-8 1/4"



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	

LOCHNER

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

USER NAME =	DESIGNED - MM	REVISED -
PLOT SCALE =	CHECKED - RH	REVISED -
PLOT DATE =	DRAWN - MM	REVISED -
	CHECKED - RH	REVISED -

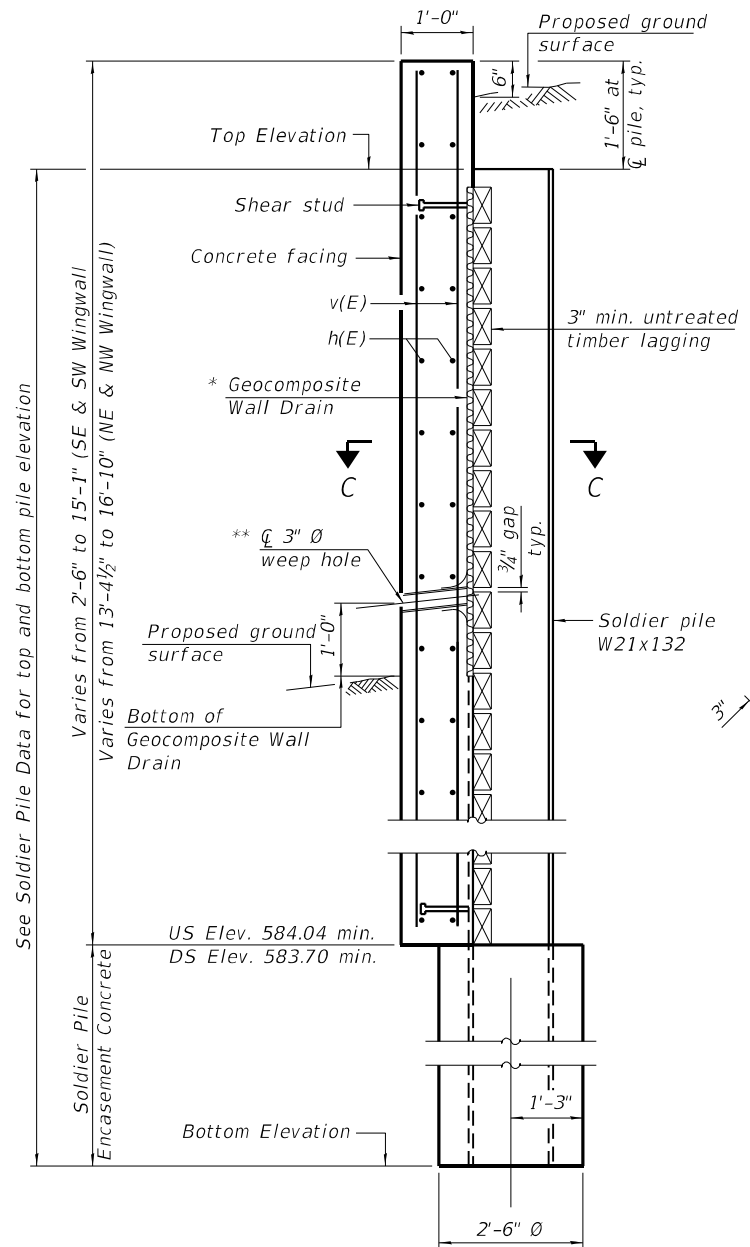
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REINFORCEMENT SCHEDULE  
 SN 016-0984

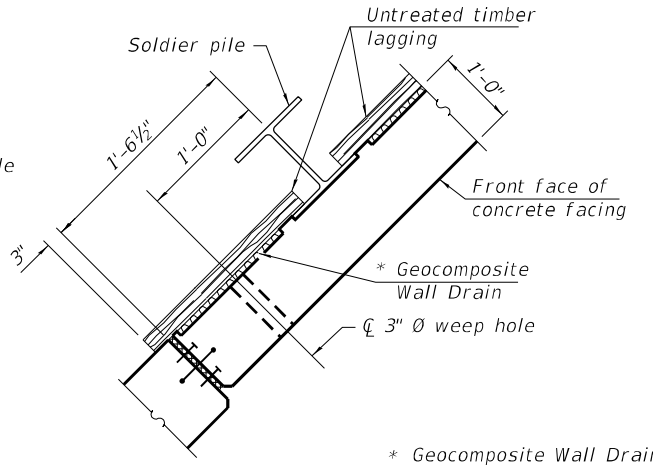
SHEET 10 OF 12 SHEETS

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	

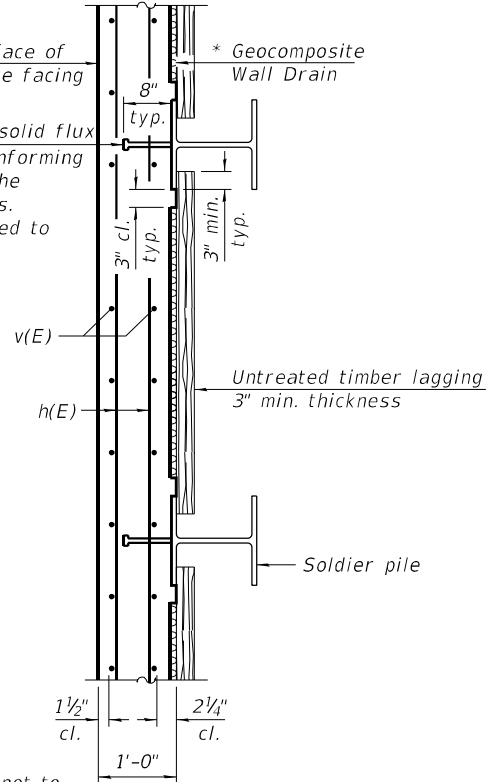
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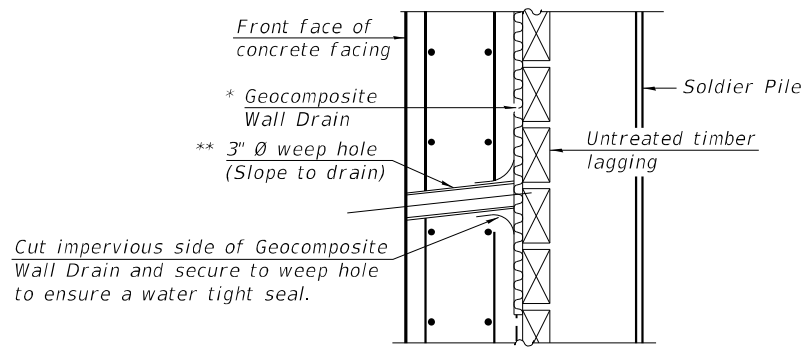
**SECTION A-A**



**SECTION B-B**

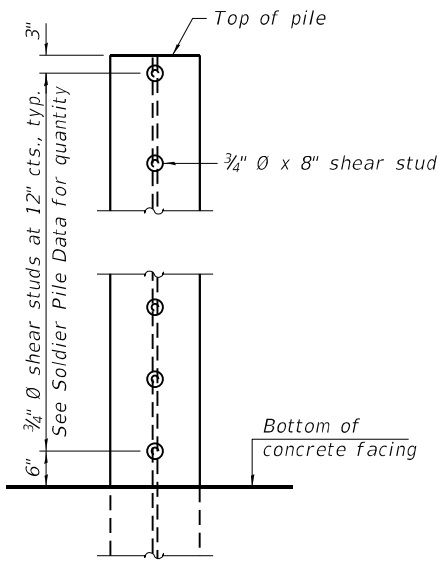


**SECTION C-C**



**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)

**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.

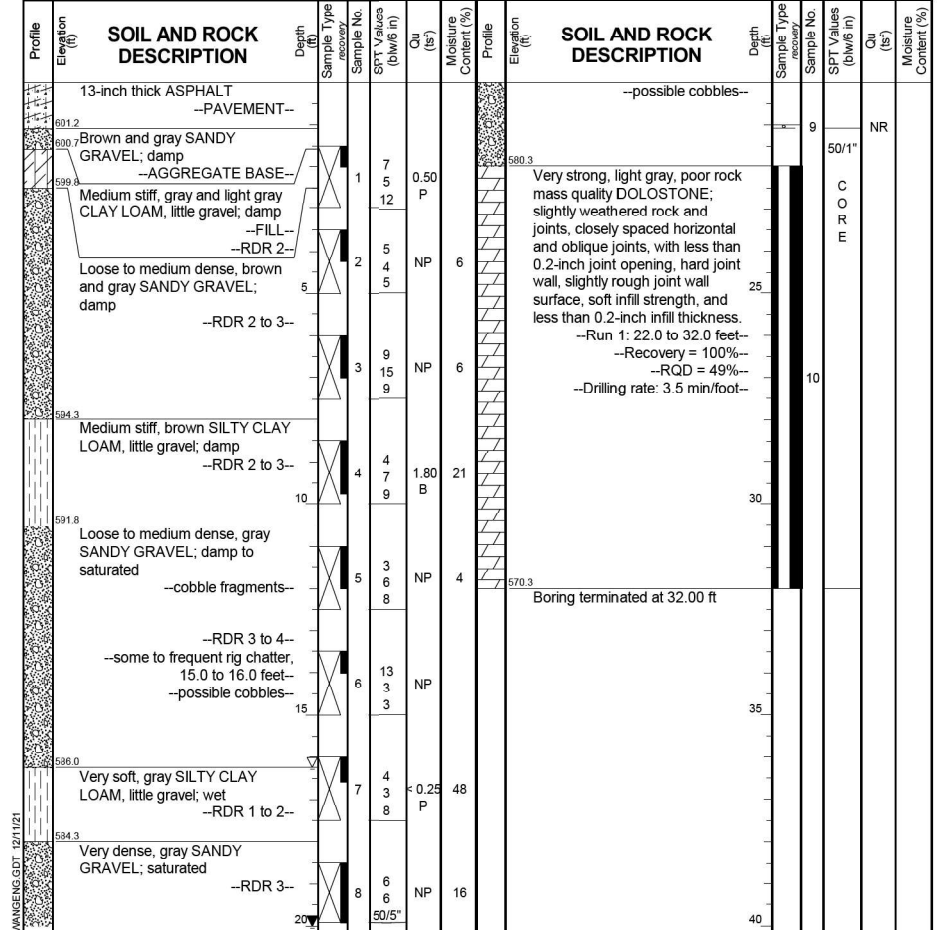
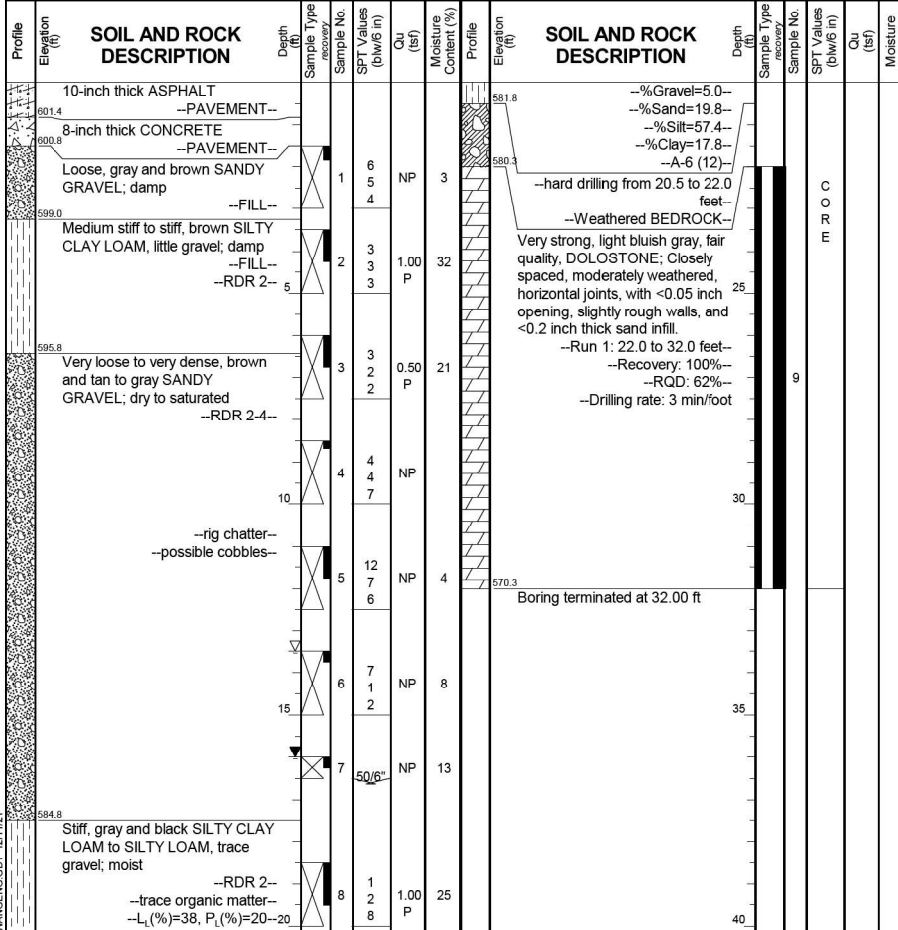
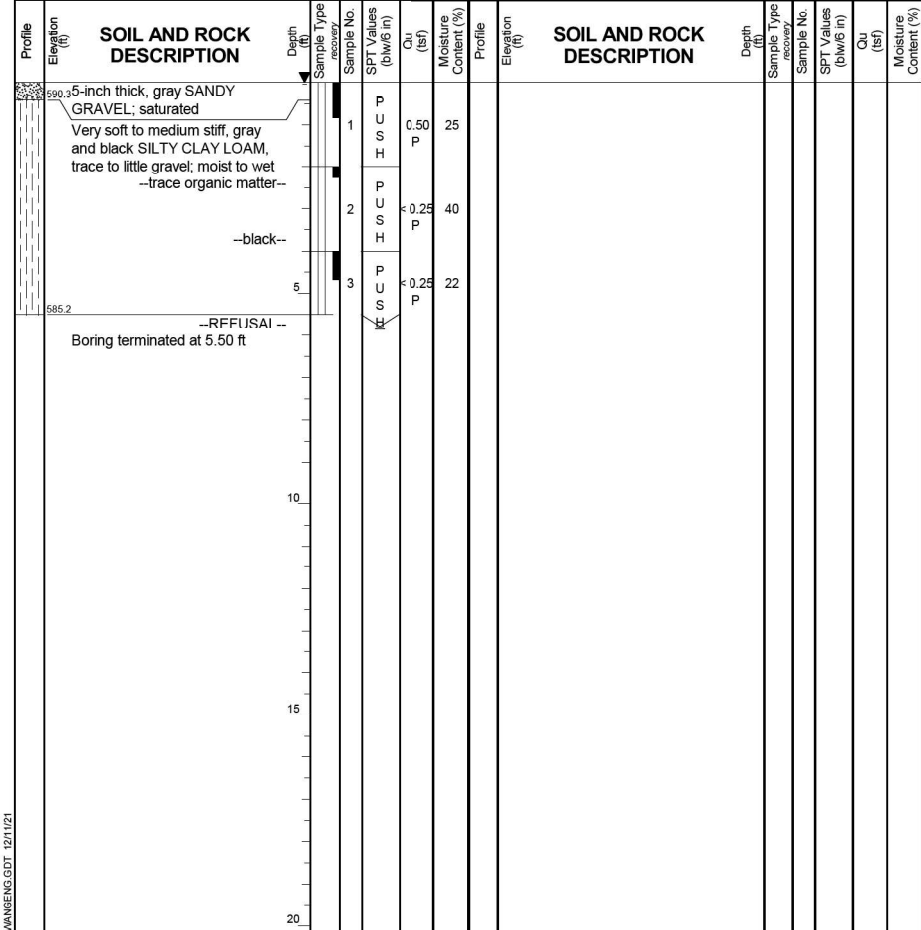
**SOLDIER PILE DATA**

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

<b>Wang Engineering</b>		<b>BORING LOG CUL-01-01</b>		Page 1 of 1
wangeng@wangeng.com 1145 N. Main Street Lombard/IL/60148 Telephone: 6309539928 Fax: 6309539938	<b>WEI Job No.: 269-02-01</b>	Datum: NAVD 88 Elevation: 590.72 ft North: 1825433.24 ft East: 1078829.34 ft Station: 16+71.86 Offset: 26.71' LT		
Client: <b>Mott MacDonald</b>	Project: <b>Main Street Lemont from Wheeler RD to IL 83</b>			
Location: <b>Cook County, IL</b>	Location: <b>Cook County, IL</b>			

<b>Wang Engineering</b>		<b>BORING LOG CUL-01-02</b>		Page 1 of 1
wangeng@wangeng.com 1145 N. Main Street Lombard/IL/60148 Telephone: 6309539928 Fax: 6309539938	<b>WEI Job No.: 269-02-01</b>	Datum: NAVD 88 Elevation: 602.26 ft North: 1825411.34 ft East: 1078821.23 ft Station: 16+56.53 Offset: 9.09' LT		
Client: <b>Mott MacDonald</b>	Project: <b>Main Street Lemont from Wheeler RD to IL 83</b>			
Location: <b>Cook County, IL</b>	Location: <b>Cook County, IL</b>			

<b>Wang Engineering</b>		<b>BORING LOG CUL-01-03</b>		Page 1 of 1
wangeng@wangeng.com 1145 N. Main Street Lombard/IL/60148 Telephone: 6309539928 Fax: 6309539938	<b>WEI Job No.: 269-02-01</b>	Datum: NAVD 88 Elevation: 602.26 ft North: 1825404.23 ft East: 1078865.79 ft Station: 16+95.70 Offset: 13.32' RT		
Client: <b>Mott MacDonald</b>	Project: <b>Main Street Lemont from Wheeler RD to IL 83</b>			
Location: <b>Cook County, IL</b>	Location: <b>Cook County, IL</b>			



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	<b>10-12-2021</b>	Complete Drilling	<b>10-12-2021</b>
Drilling Contractor	<b>Wang Testing Services</b>	Drill Rig	<b>Geoprobe HA</b>
Driller	<b>R&amp;A</b>	Logger	<b>M. Sadowski</b>
Checked by	<b>C. Marin</b>	Depth to Water	<b>NA</b>
Drilling Method <b>.1" ID HSA; boring backfilled upon completion</b>			
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	<b>10-08-2021</b>	Complete Drilling	<b>10-08-2021</b>
Drilling Contractor	<b>Wang Testing Services</b>	Drill Rig	<b>20CME55T[81%]</b>
Driller	<b>R&amp;A</b>	Logger	<b>M. Sadowski</b>
Checked by	<b>C. Marin</b>	Depth to Water	<b>NA</b>
Drilling Method <b>.3.25" ID HSA; boring backfilled upon completion</b>			
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	<b>10-06-2021</b>	Complete Drilling	<b>10-06-2021</b>
Drilling Contractor	<b>Wang Testing Services</b>	Drill Rig	<b>20CME55T[81%]</b>
Driller	<b>R&amp;H</b>	Logger	<b>F. Bozga</b>
Checked by	<b>C. Marin</b>	Depth to Water	<b>NA</b>
Drilling Method <b>.3.25" ID HSA; boring backfilled upon completion</b>			
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

**NOTES:**  
1. For locations of boreholes, see Sheet 1.

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<b>LOCHNER</b> H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME = DESIGNED - MM CHECKED - RH DRAWN - MM CHECKED - RH	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS SN 016-0984</b>	SHEET 12 OF 12 SHEETS	F.A.U. RTE. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 150	CONTRACT NO. 62L30
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**APPROVED**

For Structural Adequacy Only

*Justin Mann*

Engineer of Bridges & Structures

Benchmark: BM 0150. Survey disk in concrete headwall 102' west of Boyer Street and 20.4' north of  $\zeta$  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

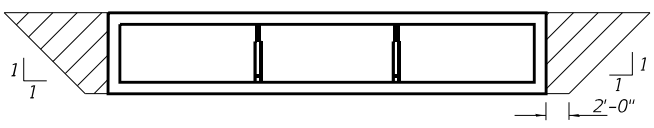
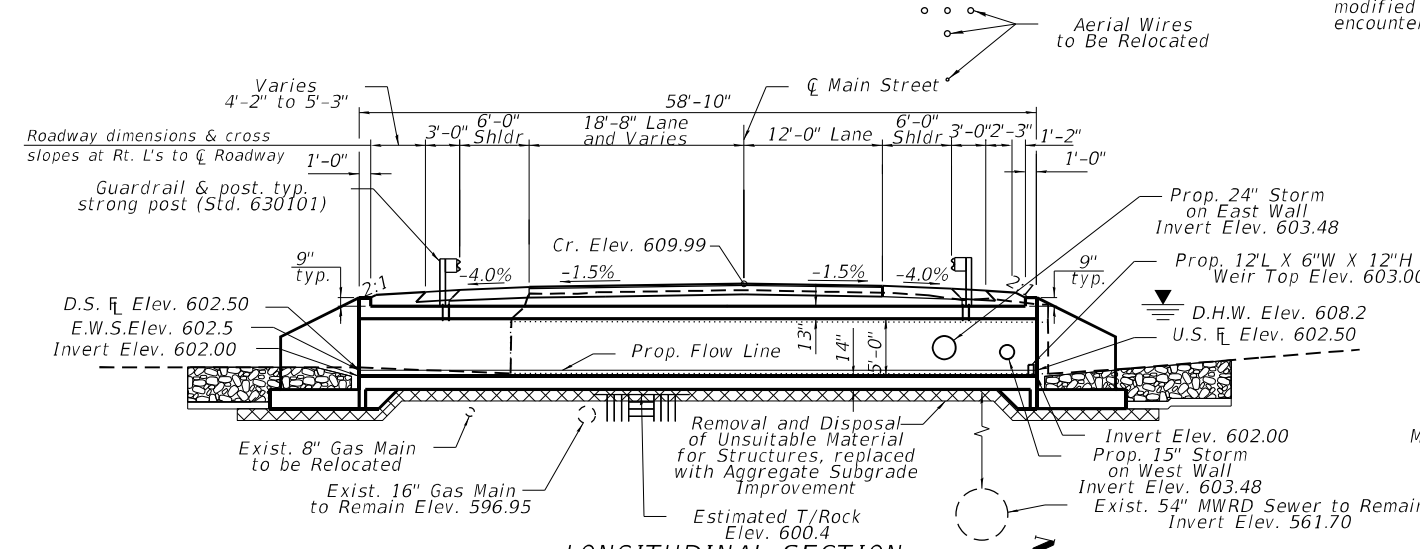
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

**WATERWAY INFORMATION**

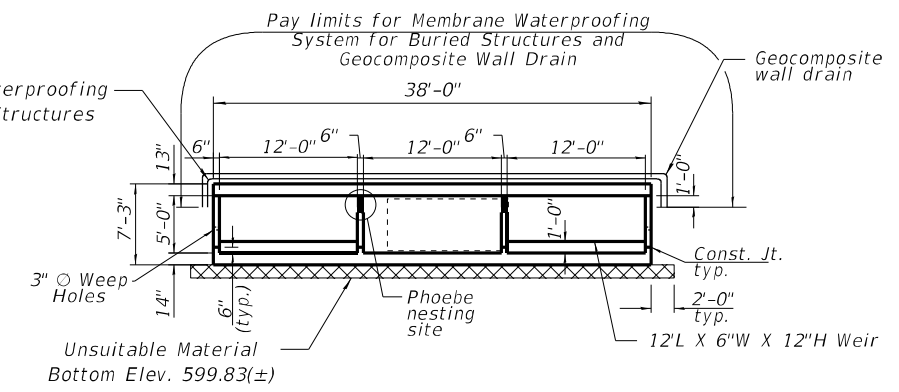
Drainage Area = 2.31 sq. mi. Low Grade Elev. = 609.7 @ Sta. 69+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	H.W.E. Prop.	Exist.	Prop.	
10	530	50	150	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

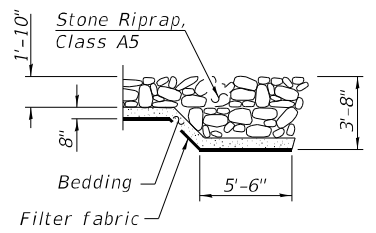


**LIMITS FOR POROUS GRANULAR EMBANKMENT (HATCHED AREA)**



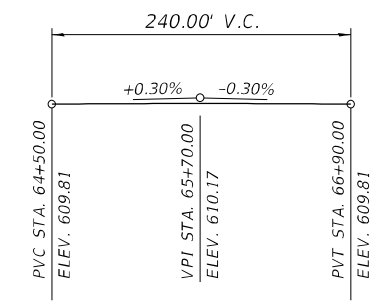
**SECTION THRU BARREL**

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.

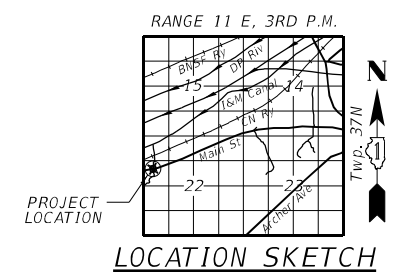


**SECTION A-A**

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

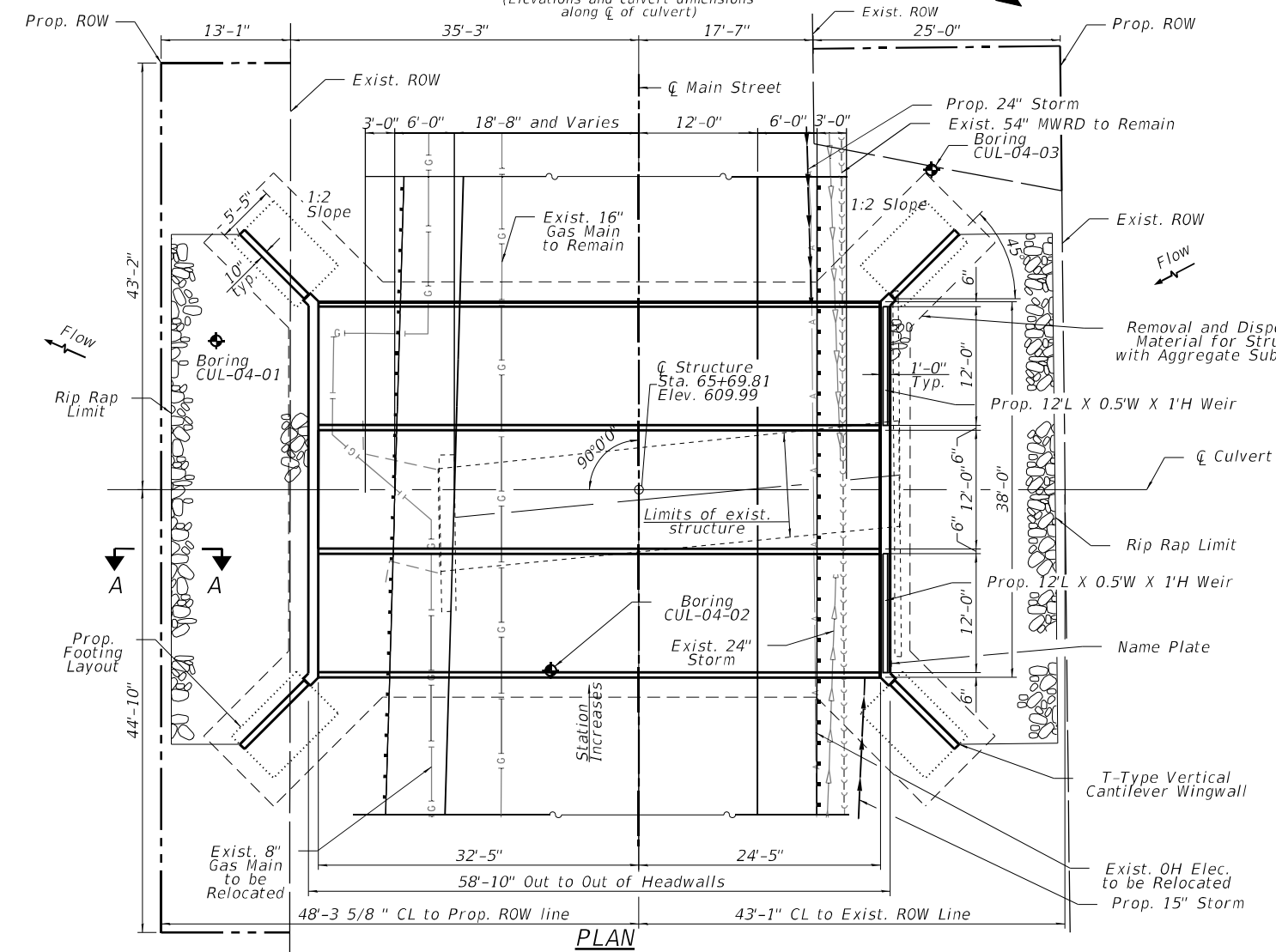


**PROFILE GRADE (Along  $\zeta$  Main Street)**



**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**

MODEL: Default  
FILE: MAIN.E  
PROJECT: 2020-142-C-DR  
DRAWING: 016-1426-DR-01  
DATE: 2/12/2025



**LEGEND**

- ◆ Soil boring location
- G- Existing underground gas main
- FO- Existing underground fiber optic
- S-S- Existing underground sanitary sewer
- A- Existing aerial line
- Existing underground storm sewer
- Proposed underground storm sewer
- ☒ Remove & replace unsuitable material

**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)

**M**  
**MOTT**  
**MACDONALD**  
10 S LaSalle St., #2500,  
Chicago, IL 60603

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	DRAWN - MM	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 016-1426**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

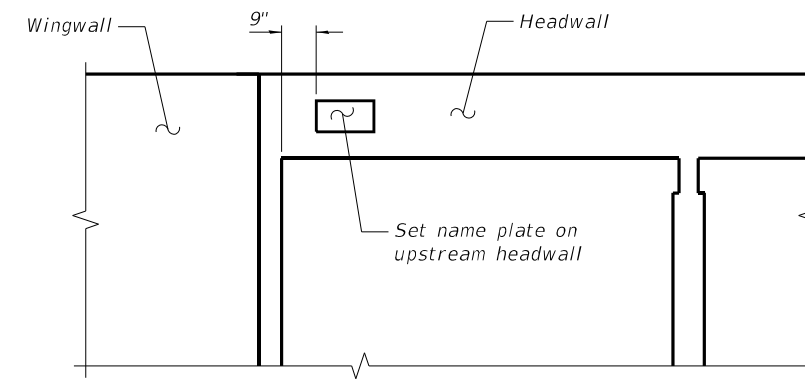
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3587	2020-142-C&DR	COOK	316	151
				CONTRACT NO. 62L30
				ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within  $\frac{1}{3}$  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  $\frac{3}{4}$ " except as noted.
5. Precast alternate not allowed.

**INDEX OF SHEETS**

- 1 - General Plan and Elevation
- 2 - General Notes and Bill of Materials
- 3 - Culvert Plan Bottom Slab Details
- 4 - Culvert Plan Top Slab Details
- 5 - Culvert Details
- 6 - Wingwall Plan and Elevation
- 7 - Soil Boring Logs



**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

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

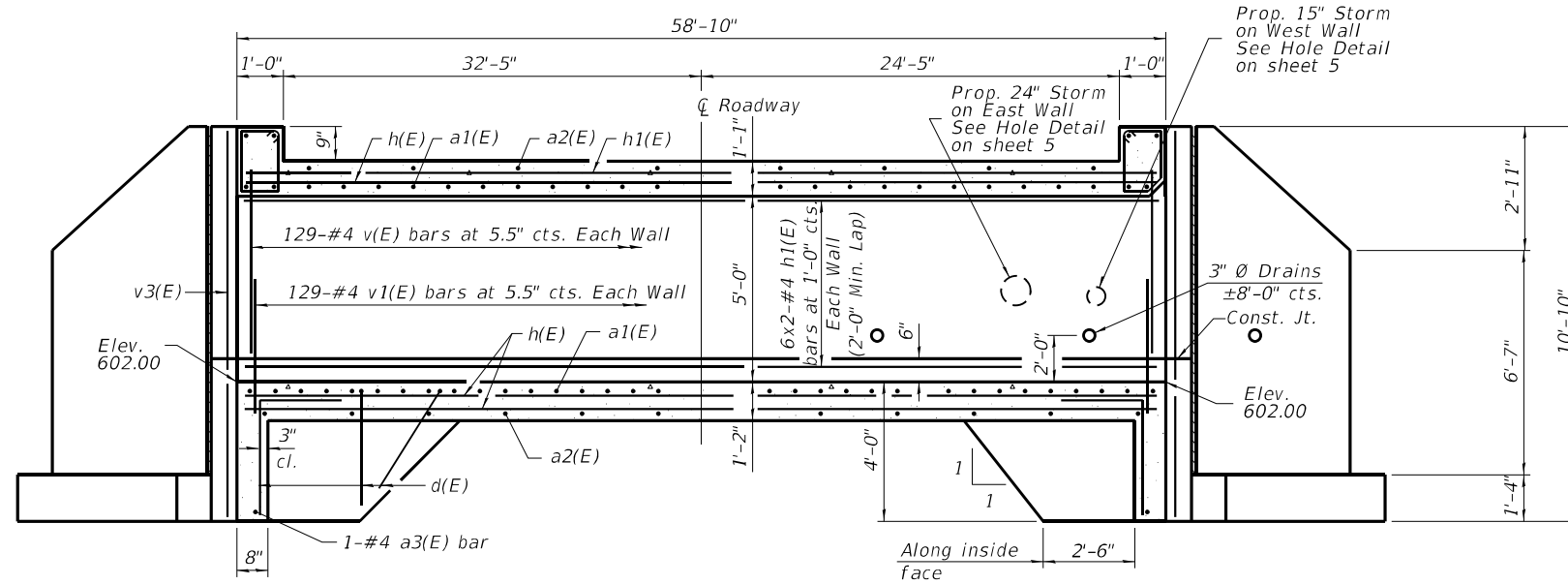
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

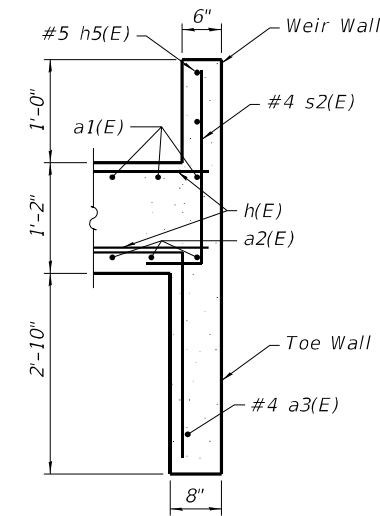
**GENERAL NOTES AND BILL OF MATERIALS**  
**STRUCTURE NO. 016-1426**

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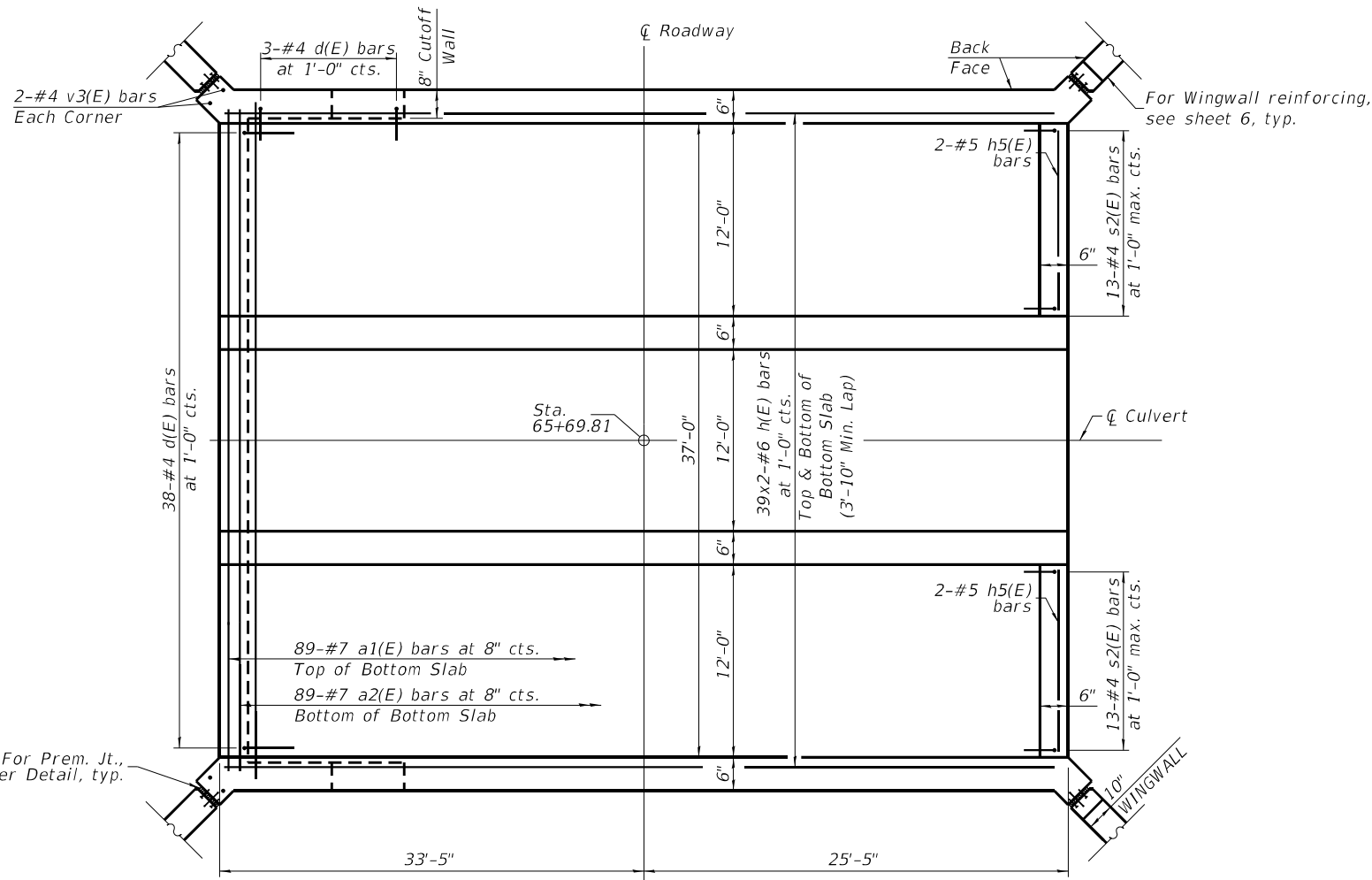
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3587	2020-142-C&DR	COOK	316	152
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				



**LONGITUDINAL SECTION**  
(Along centerline of culvert)



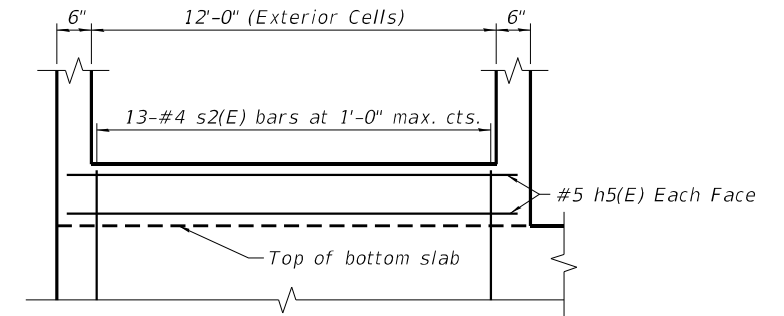
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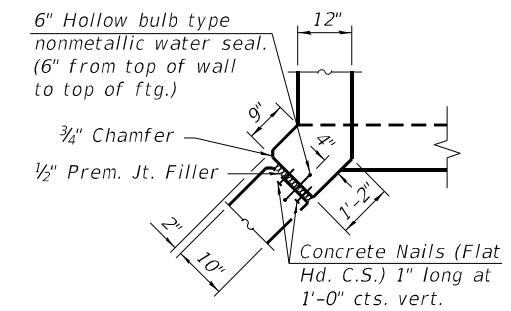
**SHOWING TOEWALL AND CUTOFF WALL**

**SHOWING WEIR WALL**

**PLAN - BOTTOM SLAB**



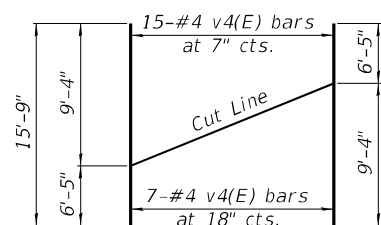
**WEIR WALL REINFORCING**



**CORNER DETAIL**

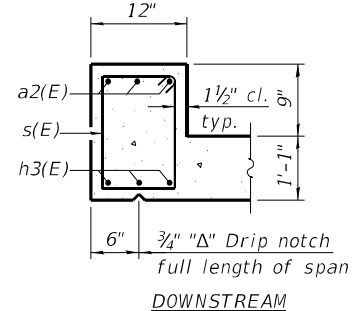
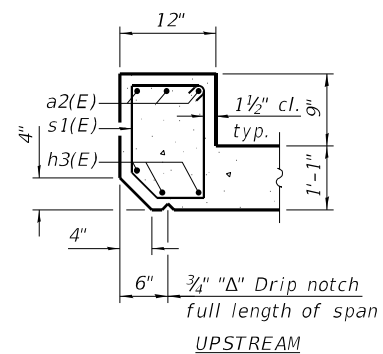
Notes:  
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.  
 At the Contractor's option, a longer v1 bar may be ordered to replace the v bar.  
 No reduction in quantities shall be made for this substitution.

MODEL: Default  
 FILE: M:\MFC\_PlanBottomSlab.dwg  
 PLOT DATE: 1/26/2026  
 MOTT MACDONALD  
 10 S LaSalle St., #2500, Chicago, IL 60603  
 USER NAME = lsc-user201  
 DESIGNED - RAO  
 DRAWN - MM  
 CHECKED - RAO  
 DATE - 06/20/2025  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 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**

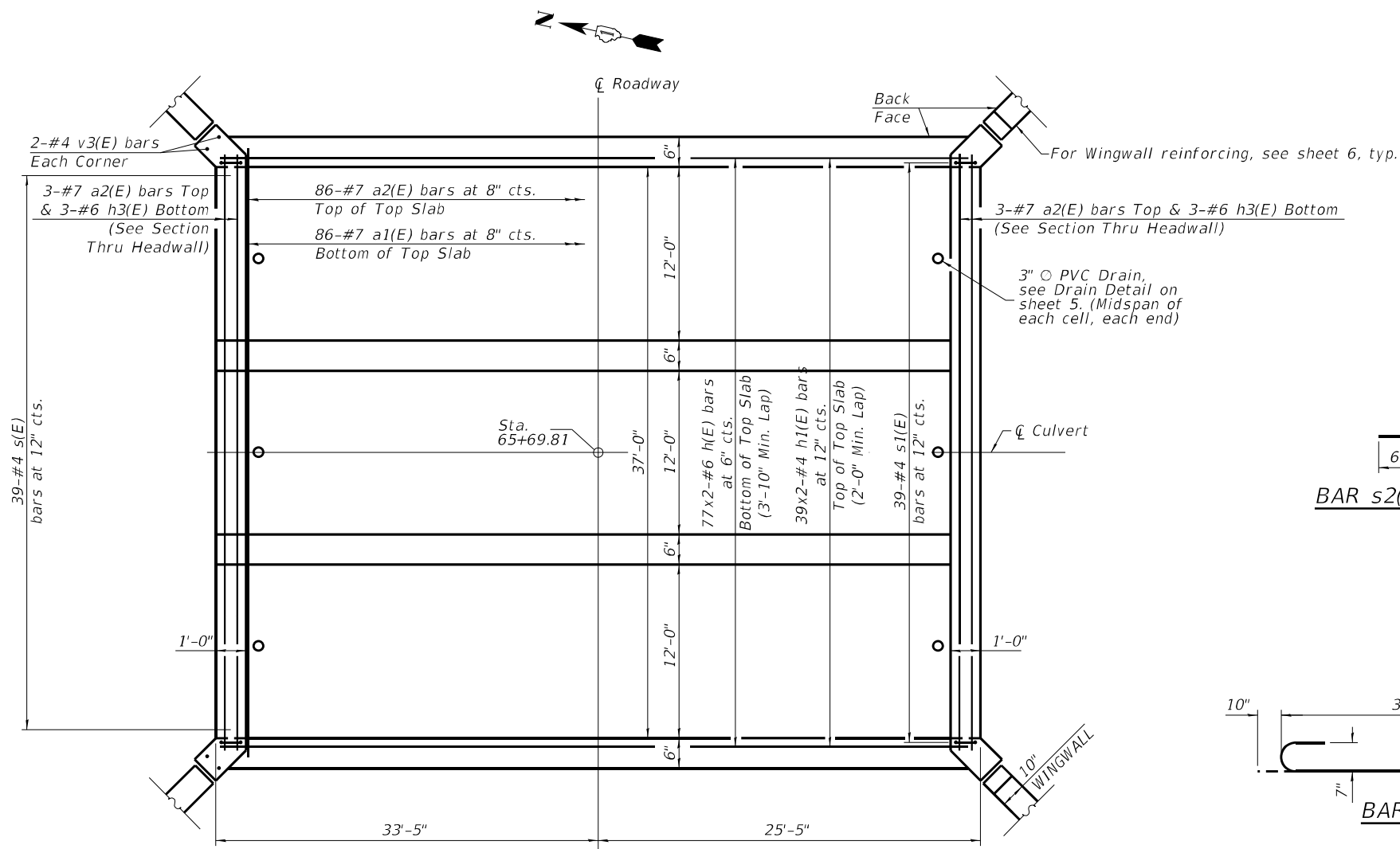
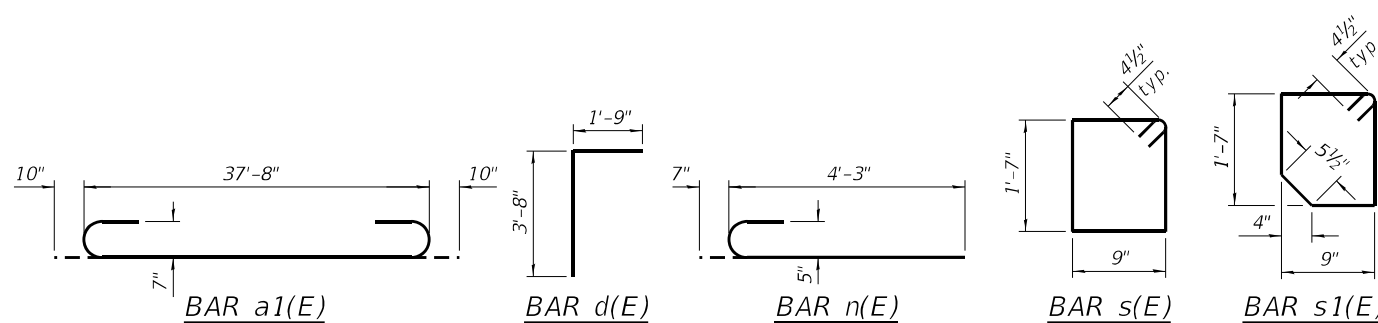
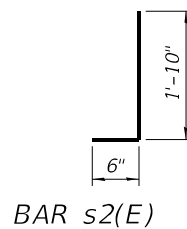
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	175	#7	39'-4"	U
a2(E)	181	#7	37'-8"	—
a3(E)	2	#4	37'-8"	—
d(E)	88	#4	5'-5"	L
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"	U
s(E)	39	#4	5'-5"	D
s1(E)	39	#4	5'-3"	D
s2(E)	26	#4	2'-4"	J
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"

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.



**SHOWING HEADWALLS**  
**PLAN - TOP SLAB**

MODEL: D:\a\1\...  
 FILE NAME: p:\projects\...  
 MOTT MACDONALD

**M M**  
10 S LaSalle St., #2500,  
Chicago, IL 60603

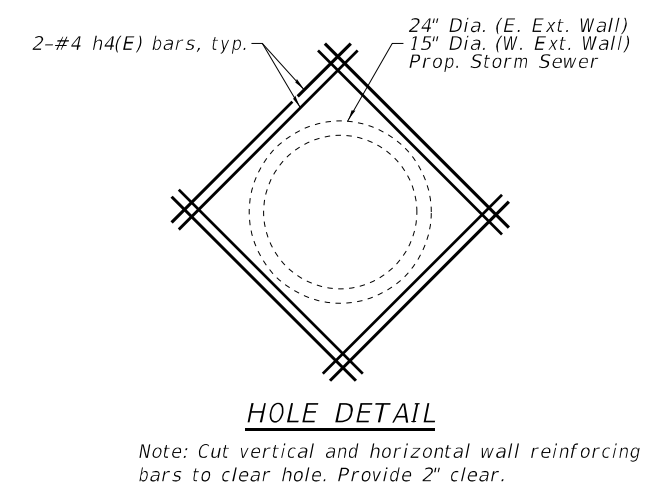
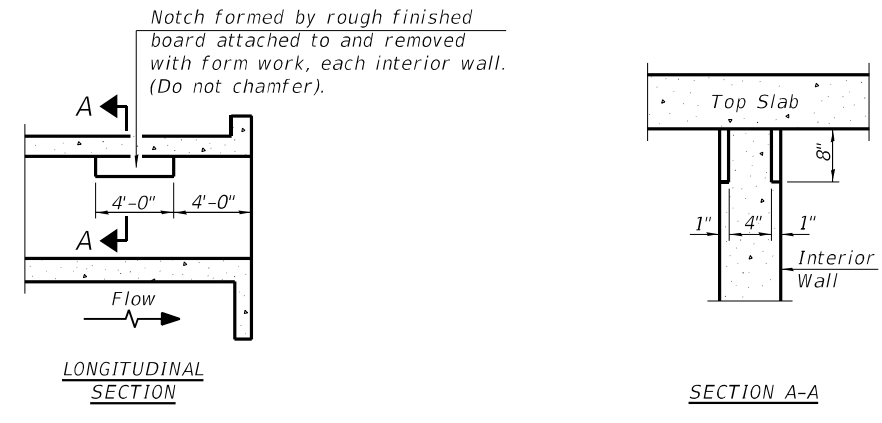
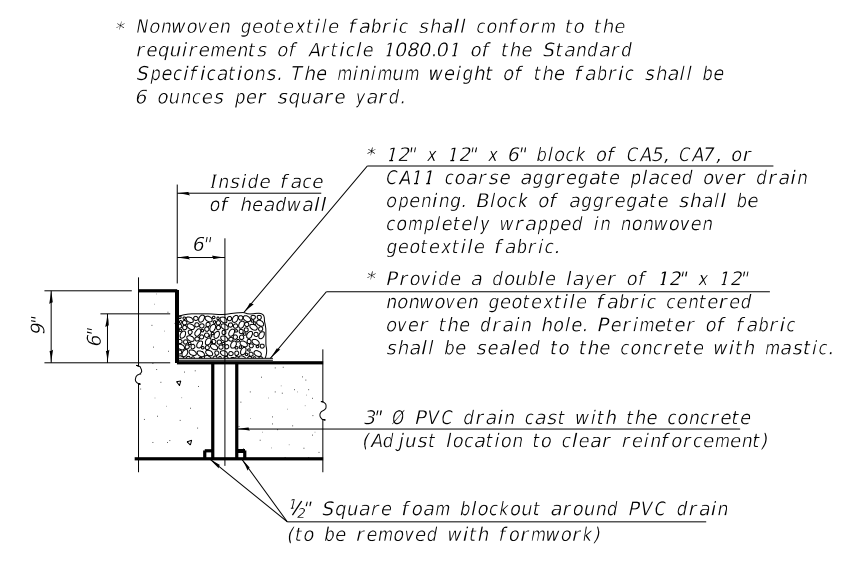
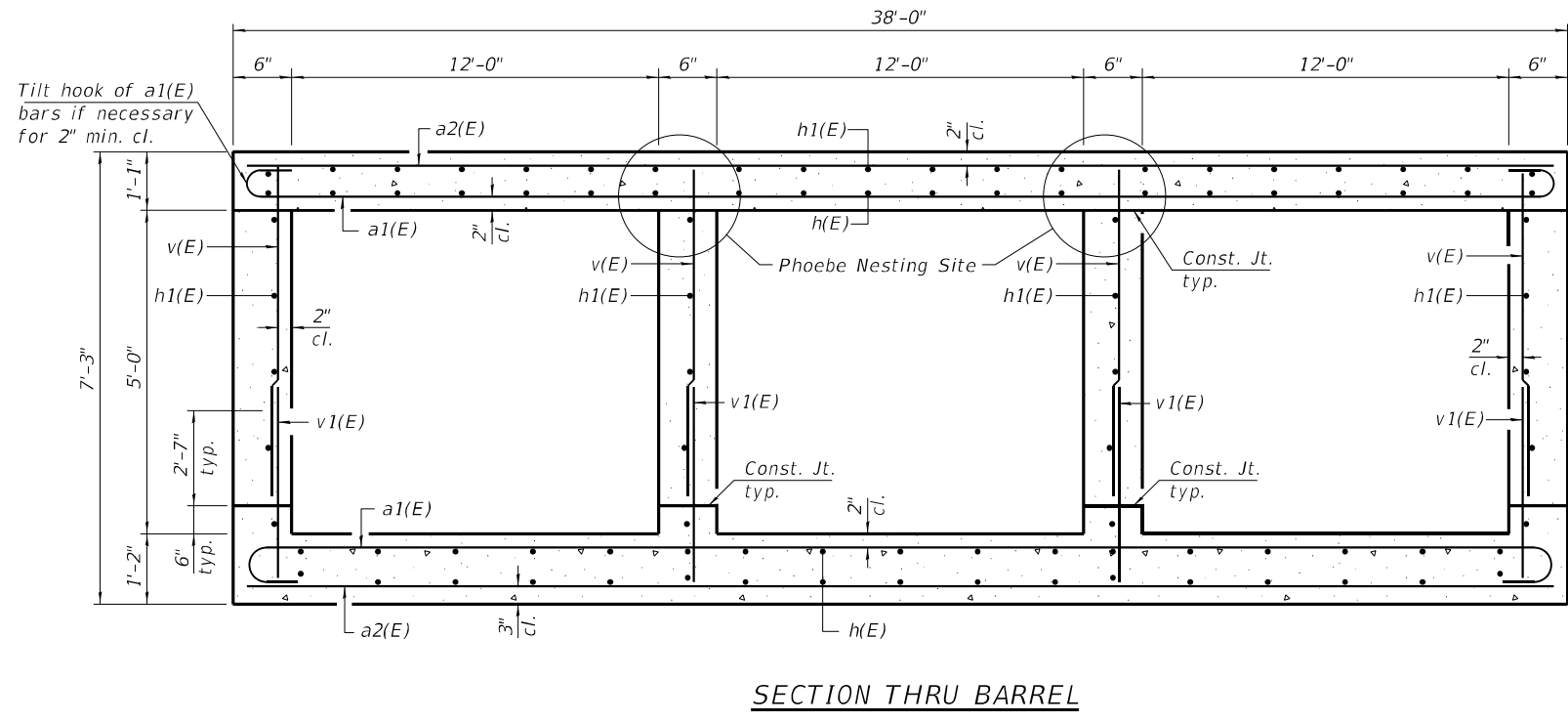
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PLOT DATE = 2/4/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**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	



MODEL: Default  
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 PLOT: MAME.pia  
 PLOTDATE: 1/26/2026  
 PLOTSCALE: 199.9999  
 USER: user201  
 PROJECT: MAME.pia  
 SHEET: 5 OF 7  
 DATE: 06/20/2025  
 DESIGNED: RAO  
 DRAWN: MM  
 CHECKED: RAO  
 DATE: 06/20/2025

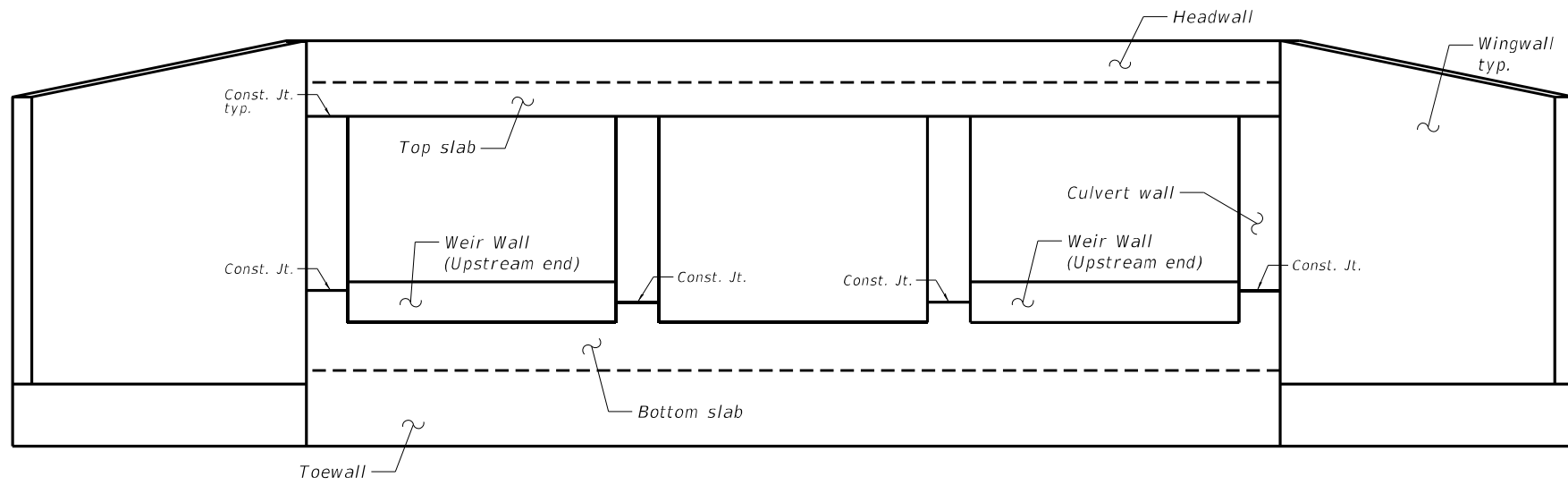
**M**  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603

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

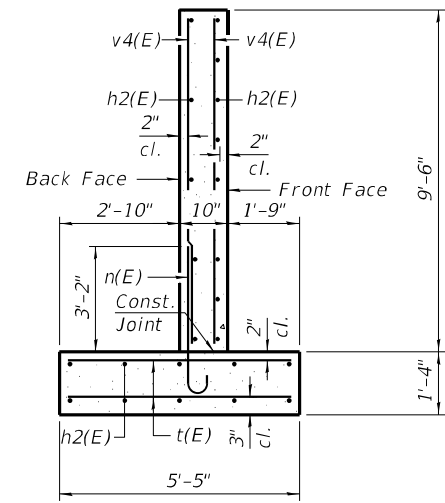
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CULVERT DETAILS    STRUCTURE NO. 016-1426</b>			
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				

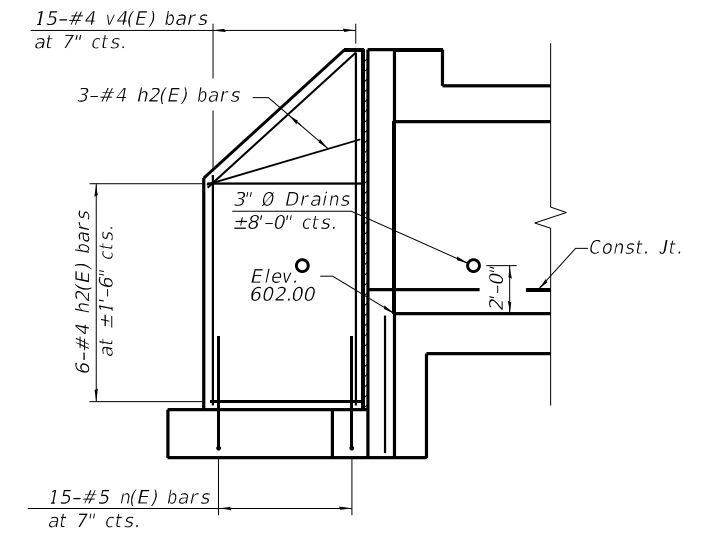
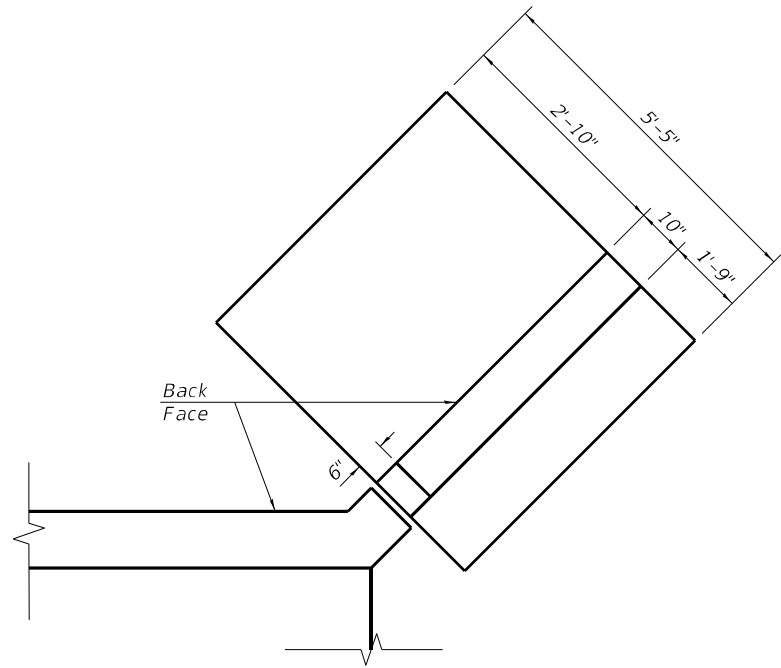
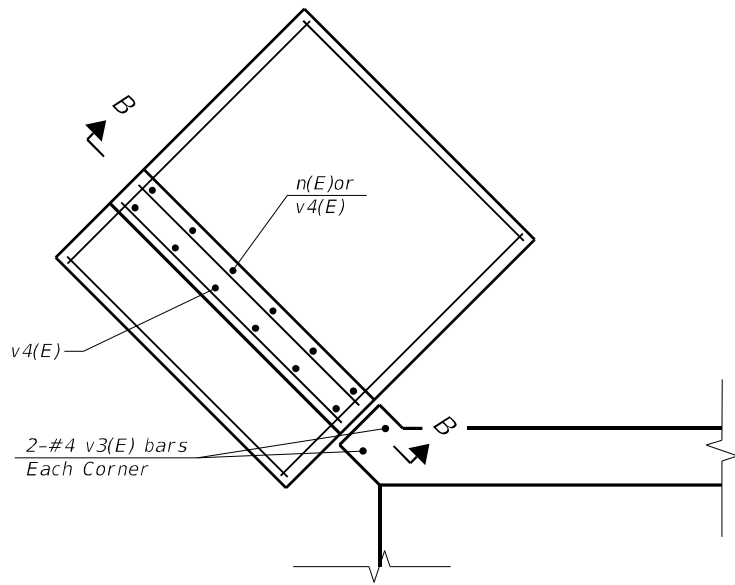


WINGWALL ELEVATION



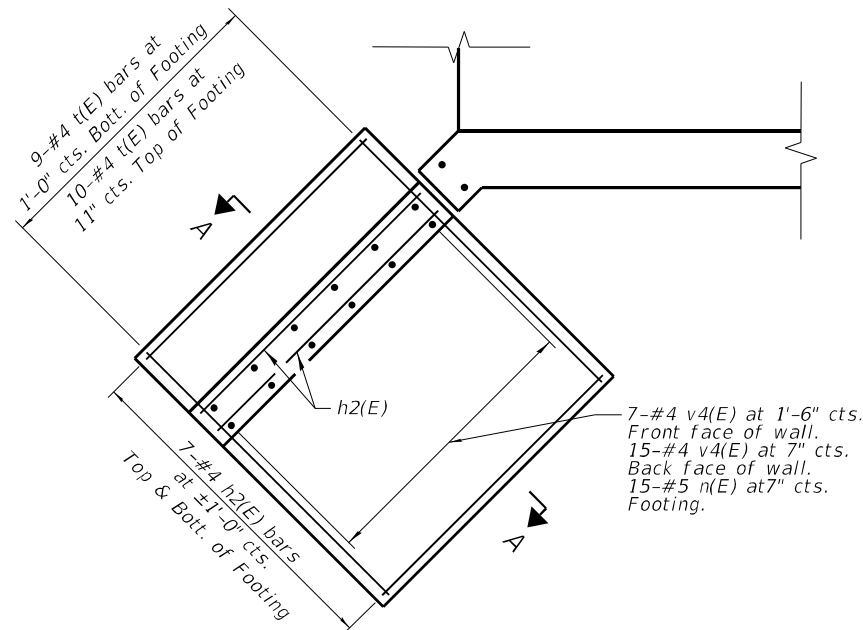
SECTION A-A

(Max. Applied Service Bearing Pressure = 2.5 ksf)

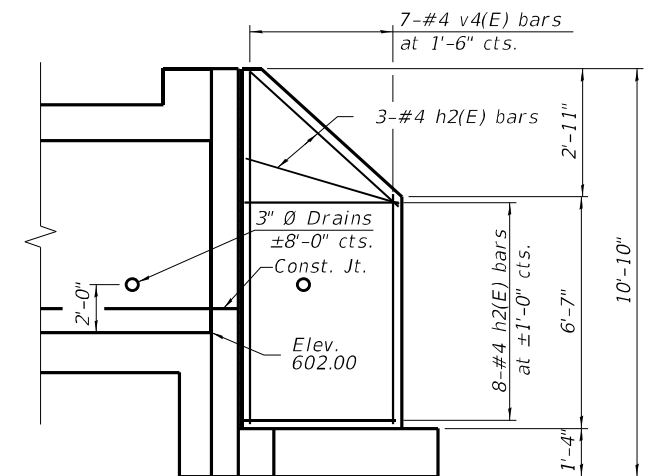
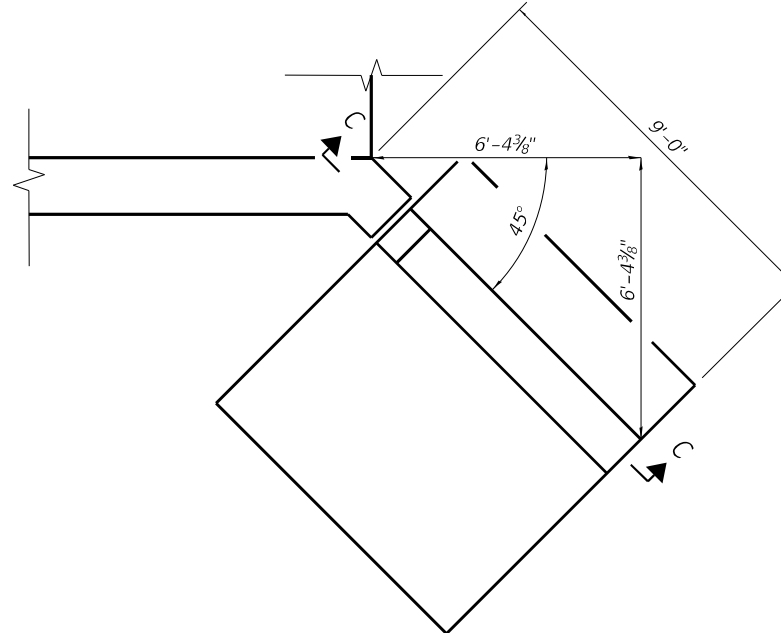


SECTION B-B

(Showing Reinforcing on back face of wall)



PLAN



SECTION C-C

(Showing Reinforcing on front face of wall)

MODEL: Default  
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 PLOT SCALE = 199,9999' / ft.  
 PLOT DATE = 1/26/2026

**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

USER NAME = lsc-user201	DESIGNED -	REVISD -
PLOT SCALE = 199,9999' / ft.	DRAWN -	REVISD -
PLOT DATE = 1/26/2026	CHECKED -	REVISD -
	DATE - 06/20/2025	REVISD -

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	156
				CONTRACT NO. 62L30
				ILLINOIS FED. AID PROJECT



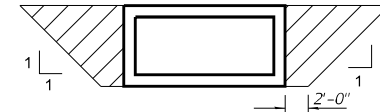
Benchmark: BM 0151. Survey disk in concrete headwall 437' west of  $\phi$  end to Maley Road Industry Park and 21.9' north of  $\phi$  Main St., El. 606.87

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.



**LIMITS FOR POROUS GRANULAR EMBANKMENT**

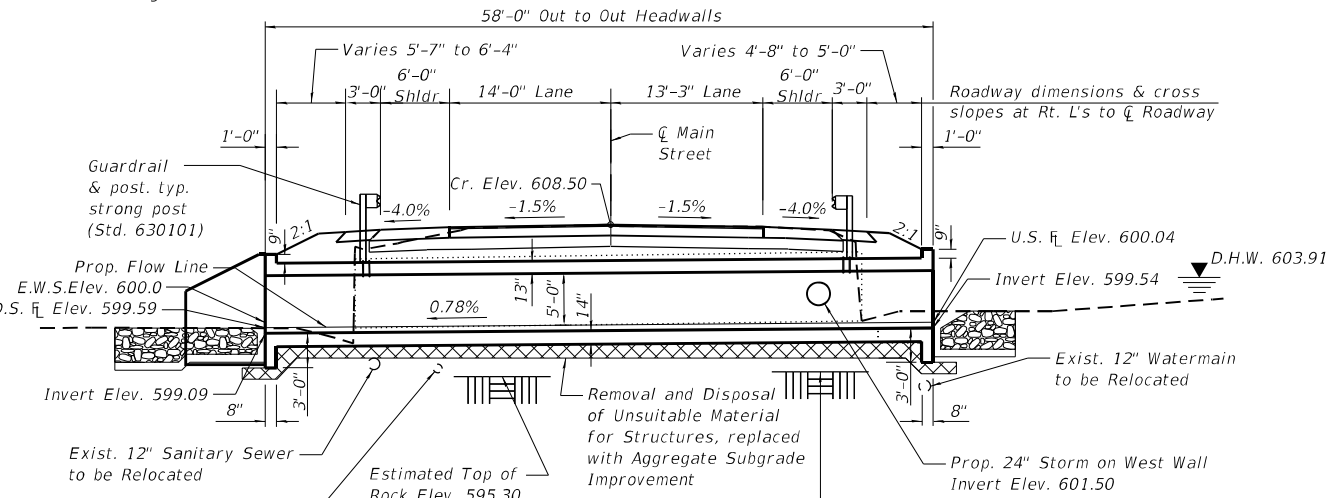
(Hatched area)

**WATERWAY INFORMATION**

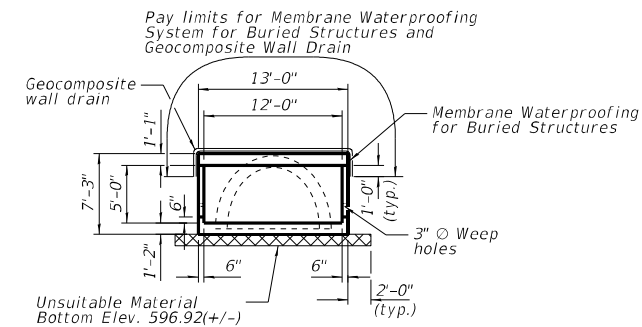
Drainage Area = 0.5 sq. mi. Low Grade Elev. 608.6 = @ Sta. 123+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	124	18	25	602.1	1.3	0.23	603.5	602.33
Base	50	257	25	36	603.0	2.9	0.91	605.9	603.91
Overtopping	100	322	27	40	603.3	3.9	1.30	607.3	604.60
Max. Calc.									

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



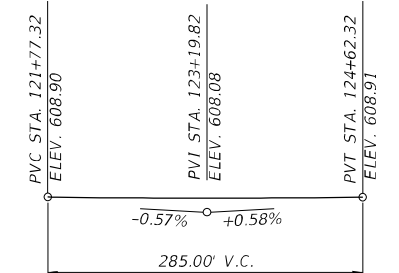
**LONGITUDINAL SECTION**  
(Elevations and culvert dimensions along  $\phi$  of culvert)



**SECTION THRU BARREL**

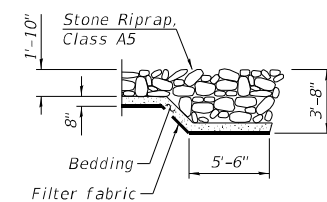
Note: Remove a minimum of 12 inches below the bottom of the box culvert elevation, and 12 inches below bottom of cutoff and wingwall elevations.

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

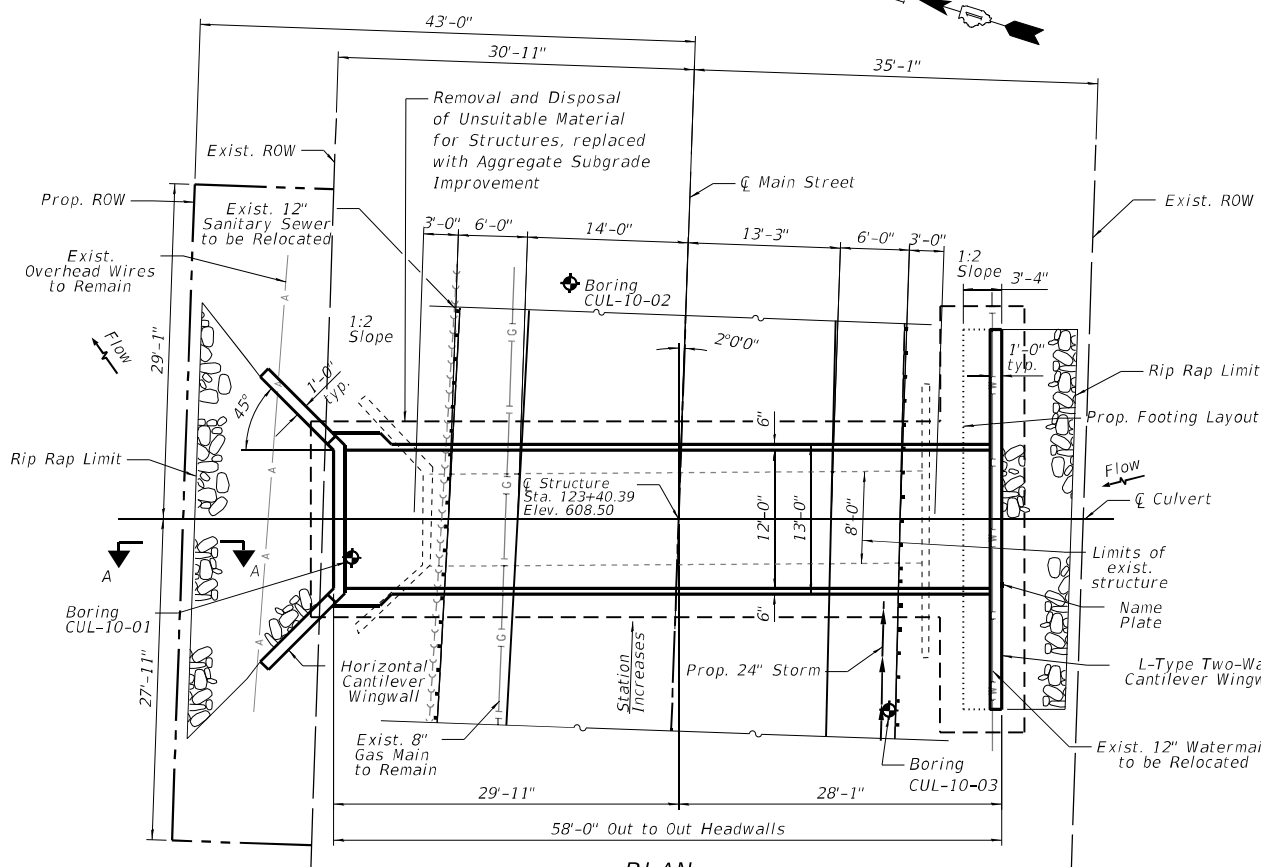


**PROFILE GRADE**

(Along  $\phi$  Main Street)



**SECTION A-A**



**PLAN**

**LEGEND**

- $\bullet$  Soil boring location
- G— Existing underground gas main
- FO— Existing underground fiber optic
- >-> Existing underground sanitary sewer
- A- Existing aerial line
- W— 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

*Justin Mann*  
Engineer of Bridges & Structures

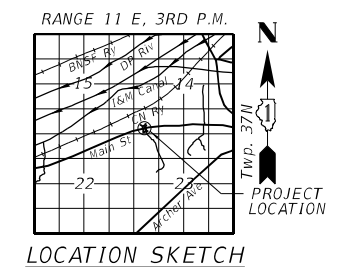
**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**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)



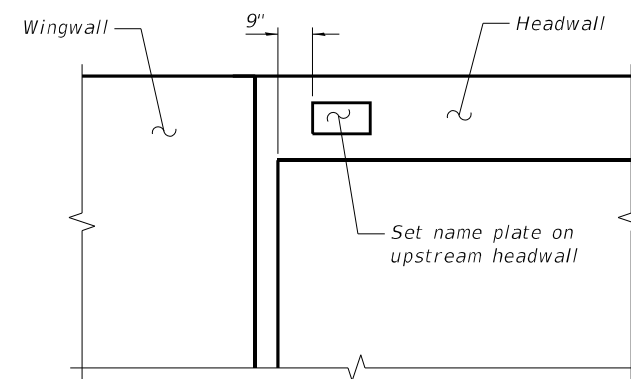
**GENERAL PLAN & ELEVATION**  
**MAIN STREET OVER**  
**UNNAMED TRIBUTARY TO I & M CANAL**  
**FAU 3587 - SEC. 2020-142-C & DR**  
**COOK COUNTY**  
**STATION 123+40.39**  
**STRUCTURE NO. 016-1425**

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within 1/2 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**

- 1 - General Plan and Elevation
- 2 - General Notes and Bill of Materials
- 3 - Culvert Plan Bottom Slab Details
- 4 - Culvert Plan Top Slab Details
- 5 - Northeast and Northwest Wingwall Plan and Elevation
- 6 - Southeast and Southwest Wingwall Plan and Elevation
- 7 - Soil Boring Logs



**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

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 USER: user...  
 PLOT DATE: 1/26/2026

10 S LaSalle St., #2500,  
 Chicago, IL 60603

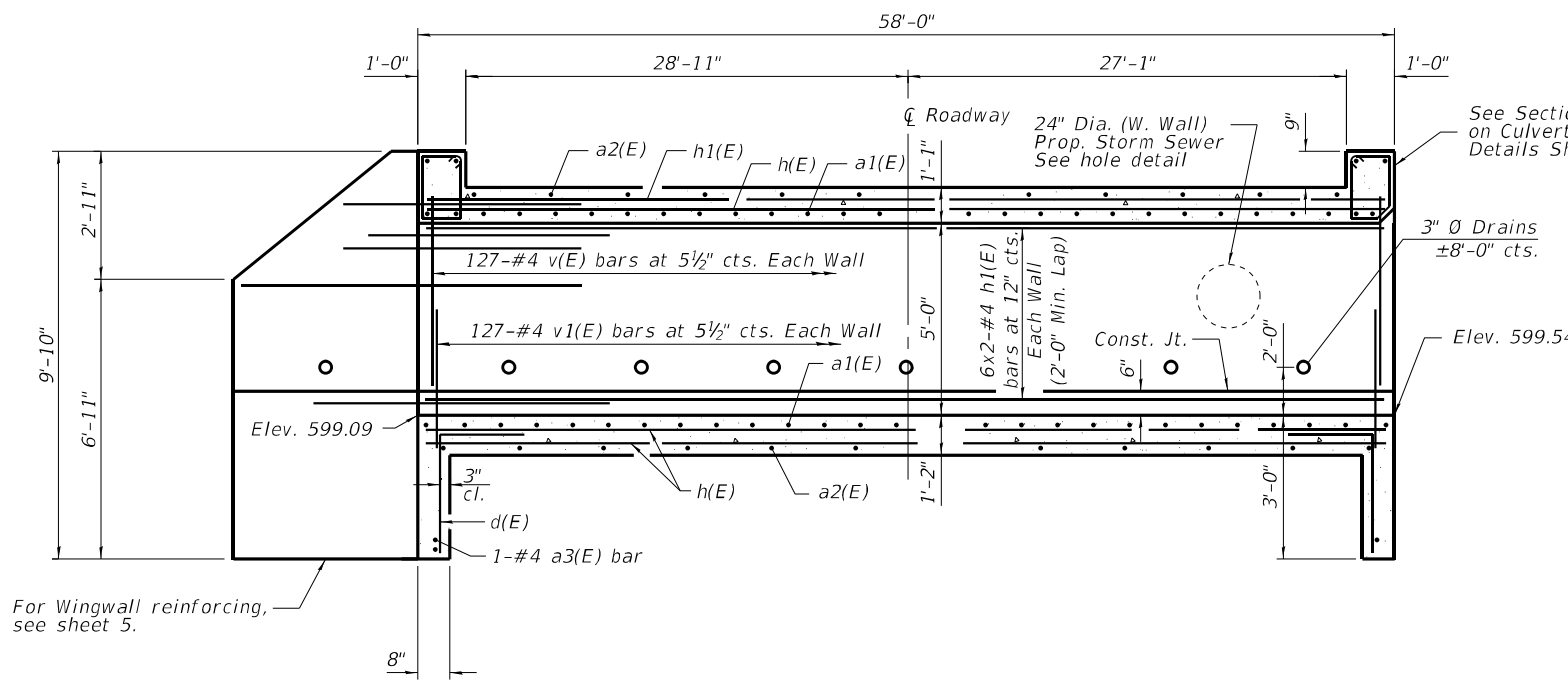
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	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

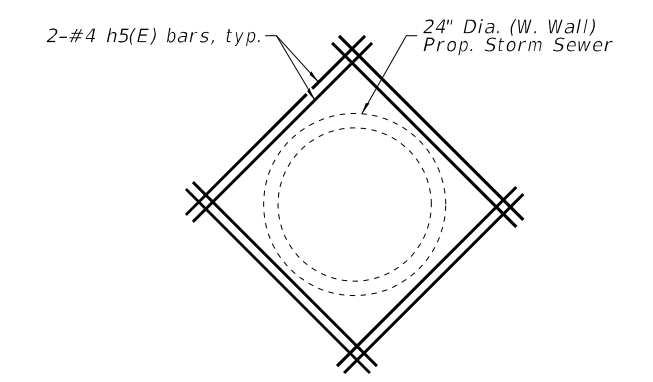
**GENERAL NOTES AND BILL OF MATERIALS**  
**STRUCTURE NO. 016-1425**

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				

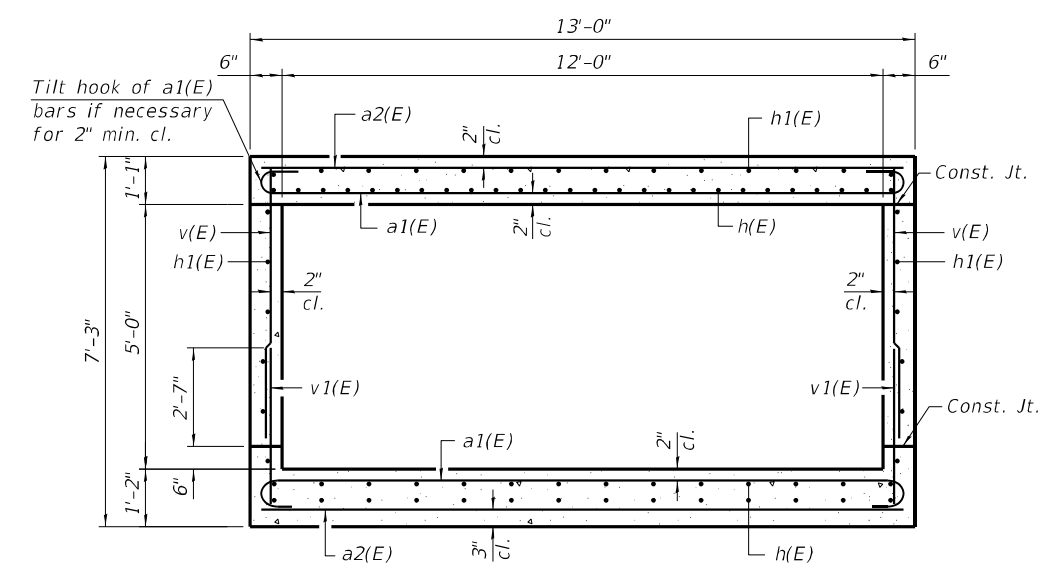


**LONGITUDINAL SECTION**  
(Along centerline of culvert)

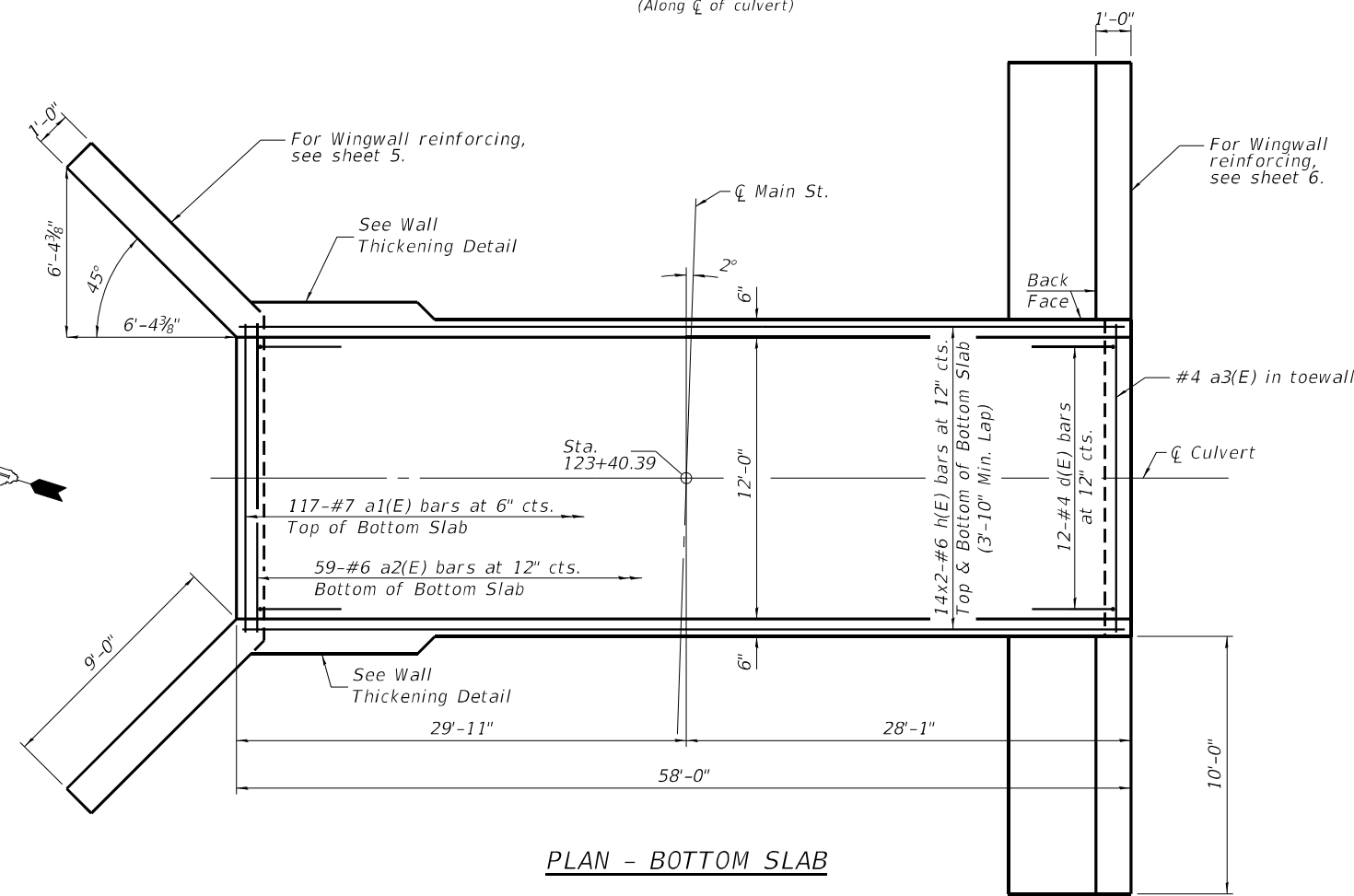


**HOLE DETAIL**

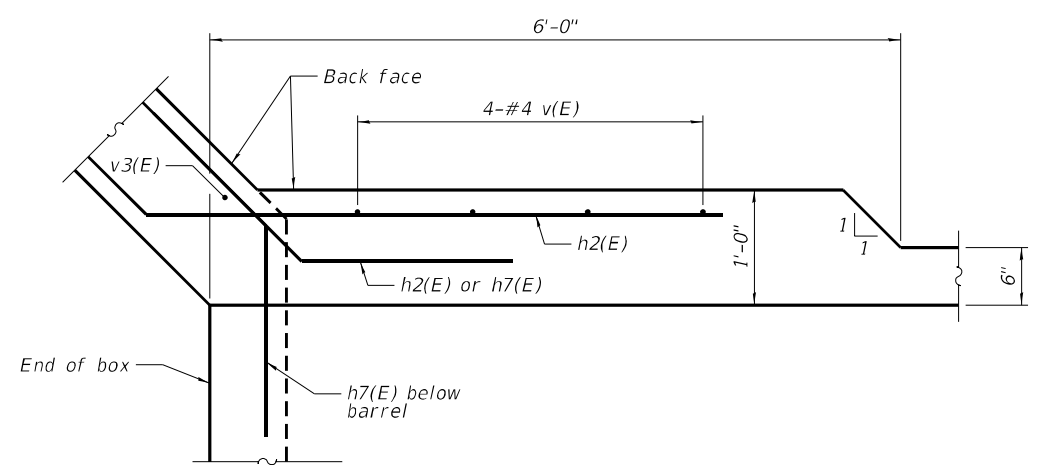
Note: Cut vertical and horizontal wall reinforcing bars to clear hole. Provide 2" clear.



**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

MODEL: Default  
 FILE: MAME: p:\unimarc-usa\ppl\hertley\comm\mat-use\dw-20\Documents\1507103006\DOT-1\enr\mat-main Street\CAD Sheets\1507103006\DOT-1\enr\mat-Culvert\15043.dwg  
 MOTT MACDONALD

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

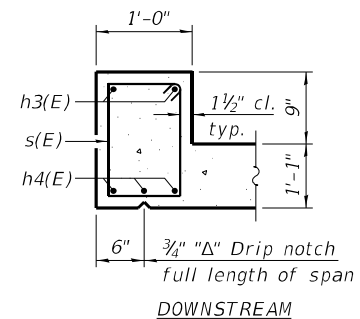
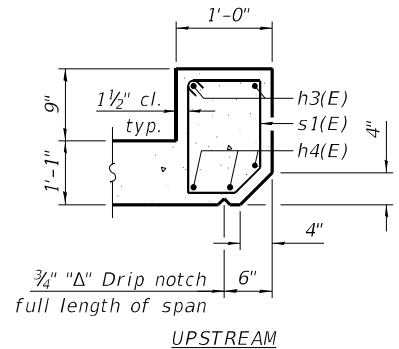
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PLOT SCALE = 199,9999' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

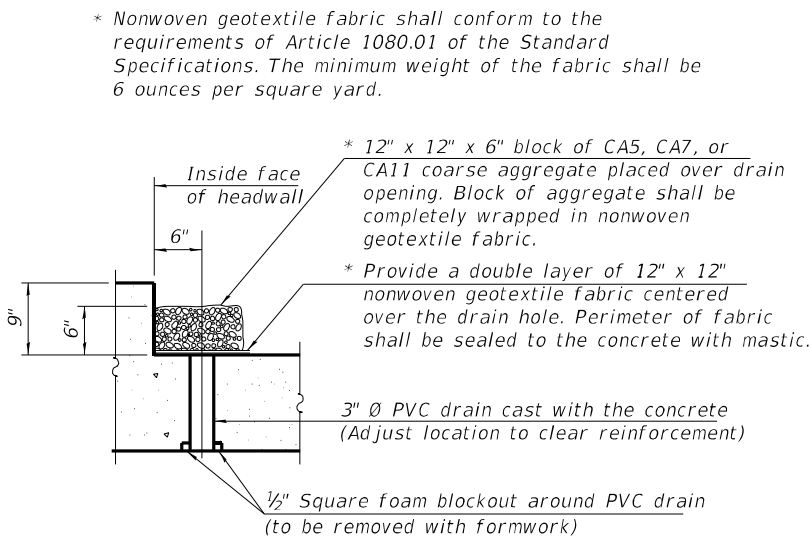
**CULVERT PLAN BOTTOM SLAB DETAILS  
 STRUCTURE NO. 016-1425**

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	



**SECTION THRU HEADWALL**



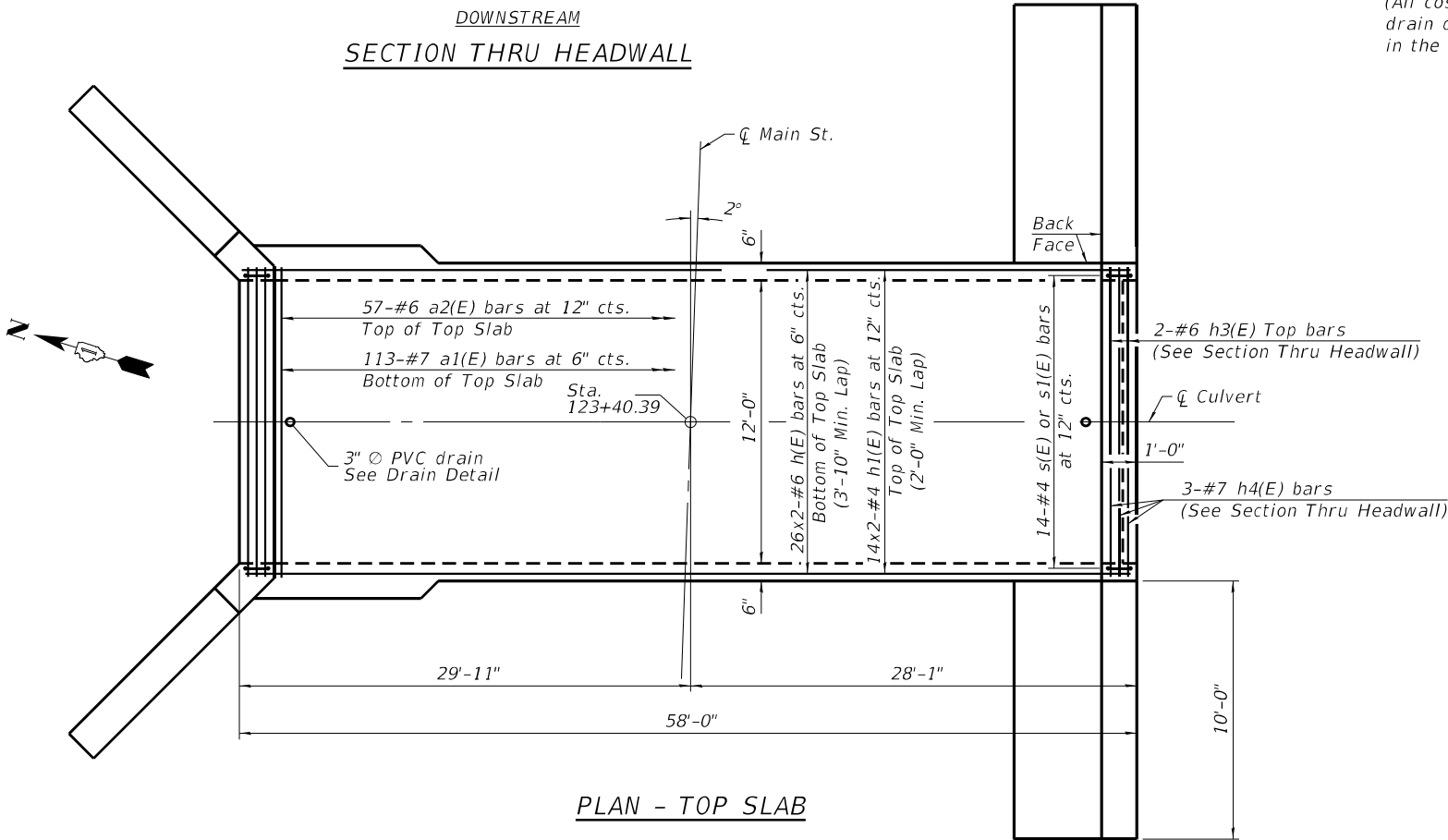
**DRAIN DETAIL**

(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.)

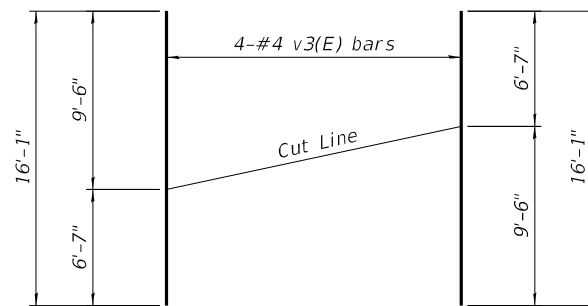
**MINIMUM BAR LAP**  
(Slab)  
#4 bar = 2'-0"  
#6 bar = 3'-10"

**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	

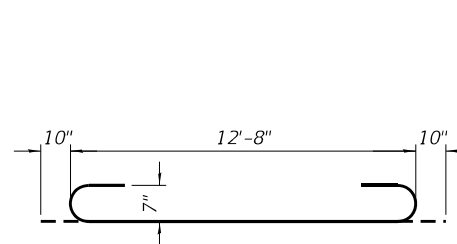


**PLAN - TOP SLAB**

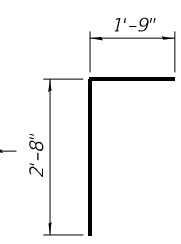


**FIELD CUTTING DIAGRAM**

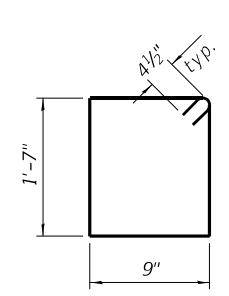
Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face of wingwall.



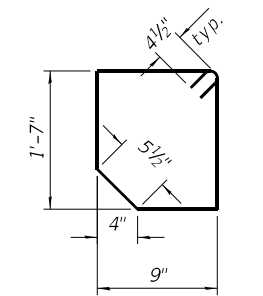
**BAR a1(E)**



**BAR d(E)**



**BAR s(E)**



**BAR s1(E)**

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**M** MOTT MACDONALD  
10 S LaSalle St., #2500, Chicago, IL 60603

USER NAME = iso-user201  
PLOT SCALE = 1/99,999 ' / ft.  
PLOT DATE = 1/26/2026

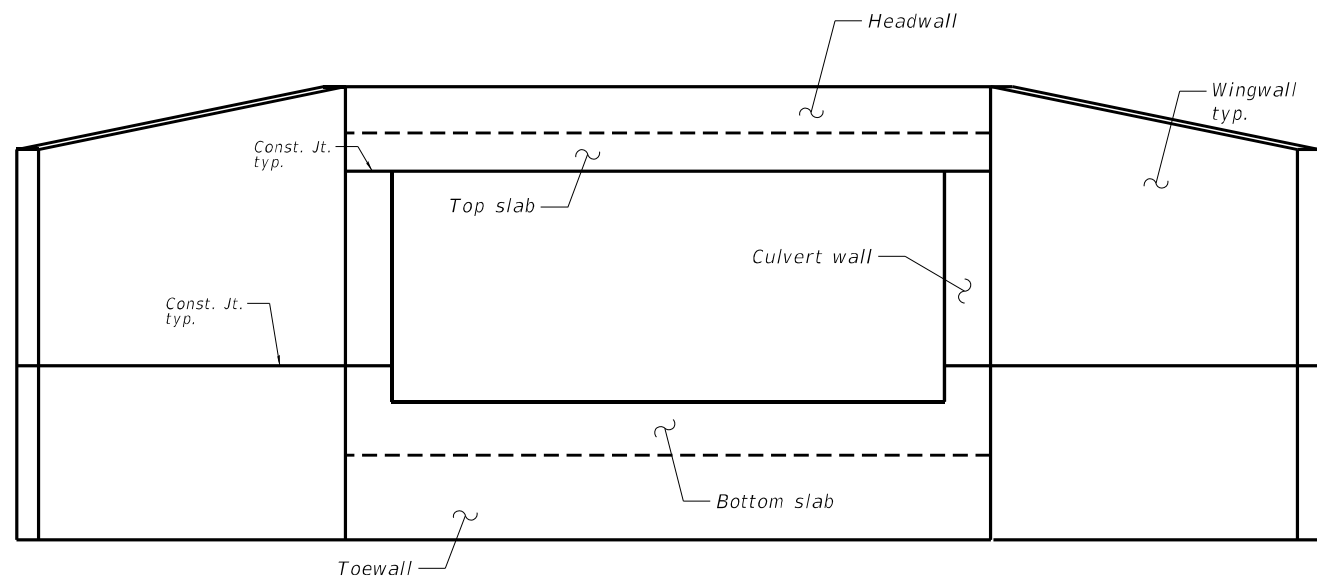
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DRAWN - MY  
CHECKED - RAO  
DATE - 06/20/2025  
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

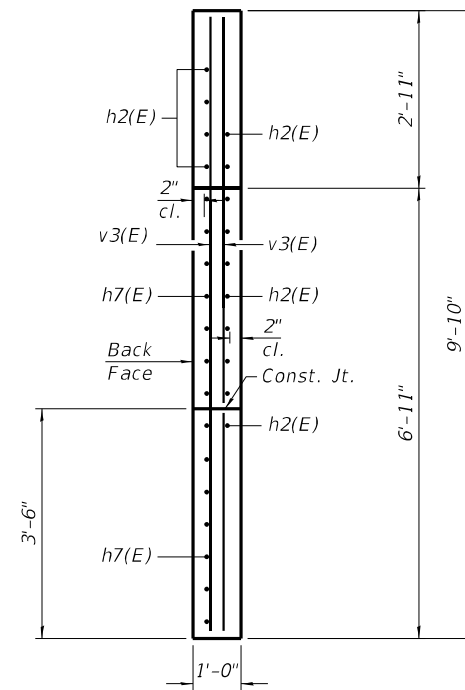
**CULVERT PLAN TOP SLAB DETAILS STRUCTURE NO. 016-1425**

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

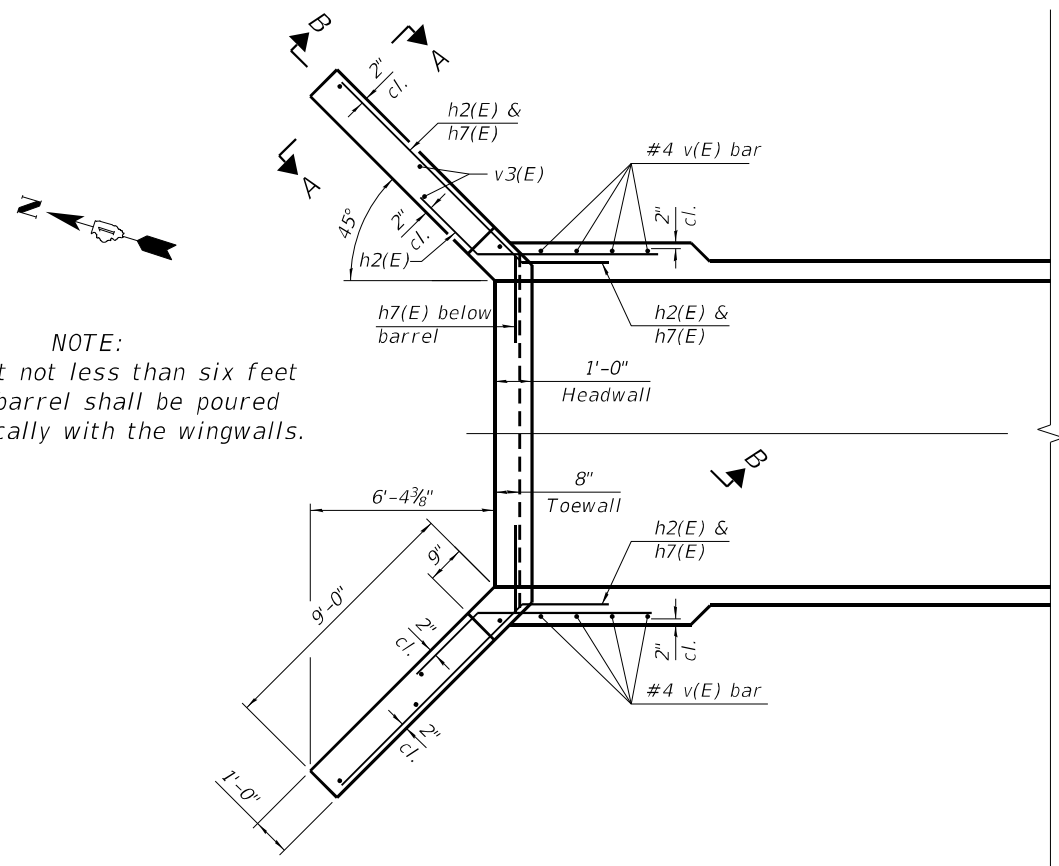
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	161
CONTRACT NO. 62L30			ILLINOIS FED. AID PROJECT	



**WINGWALL ELEVATION**



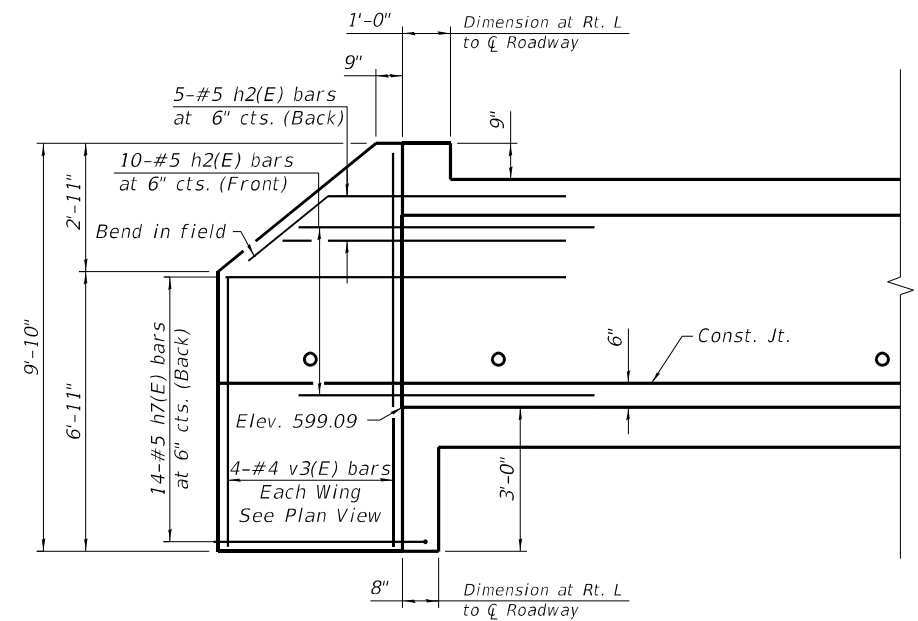
**SECTION A-A**



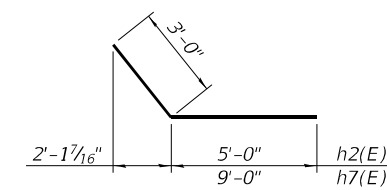
**PLAN**

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

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



**SECTION B-B**



**BARS h2(E) & h7(E)**

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**M**  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**NOTT**  
**MACDONALD**

USER NAME = iso-user201  
 PLOT SCALE = 1/99,999 ' / ft.  
 PLOT DATE = 1/26/2026

DESIGNED - RAO  
 DRAWN - MY  
 CHECKED - RAO  
 DATE - 06/20/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

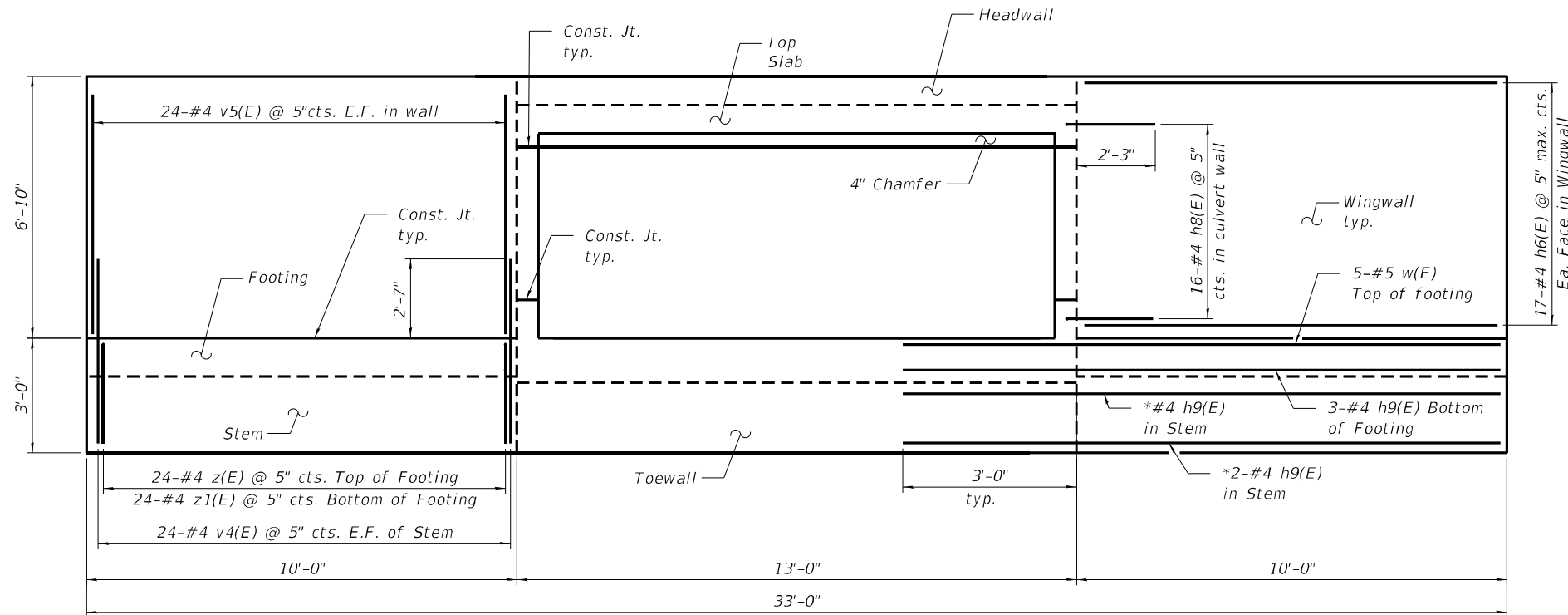
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**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	

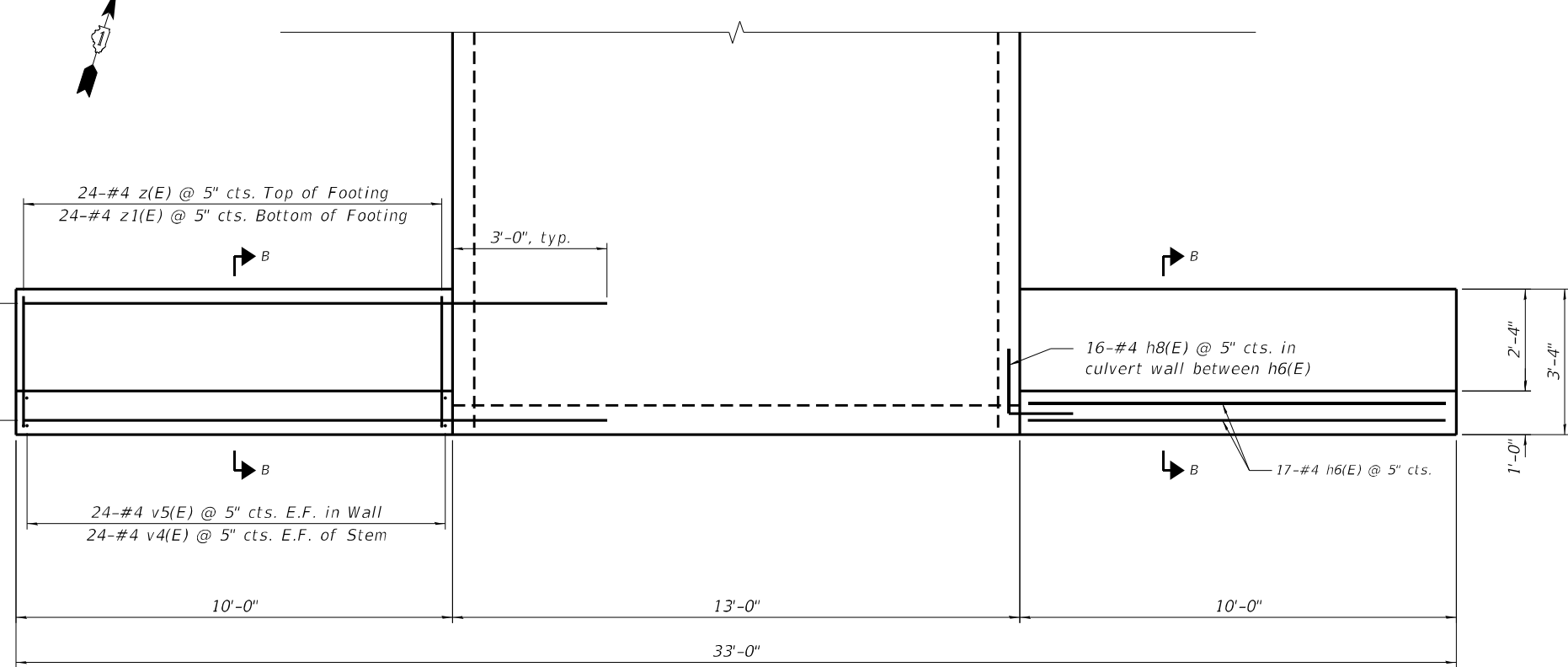
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**SOUTH END ELEVATION**

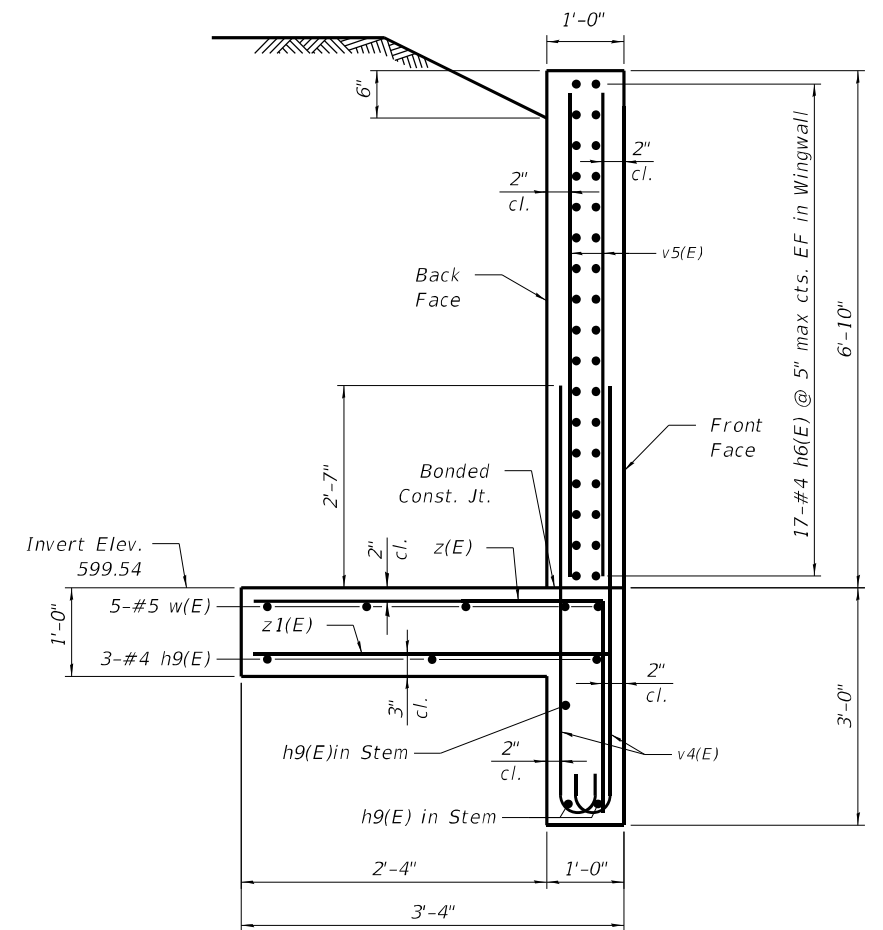
\*Field bend h9(E) in Stem as necessary to maintain clear cover in Toewall  
 Not all reinforcement shown for clarity.

5-#5 w(E) @ 9" max cts. Top of Footing  
 6-#4 h9(E) cts. in Footing & Stem

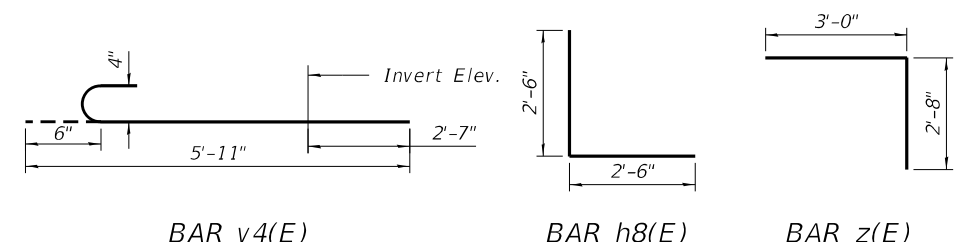


**SOUTH END PLAN**

Not all reinforcement shown for clarity.



**SECTION B-B**



**BAR v4(E)**

**BAR h8(E)**

**BAR z(E)**

**M** 10 S LaSalle St., #2520, Chicago, IL 60603  
**NOTT MACDONALD**

USER NAME = iso-user500	DESIGNED - RAO	REVISED -
PLOT SCALE = 1/99,999 ' / ft.	DRAWN - MY	REVISED -
PLOT DATE = 2/4/2026	CHECKED - RAO	REVISED -
	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. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 163
CONTRACT NO. 62L30			ILLINOIS FED. AID PROJECT	



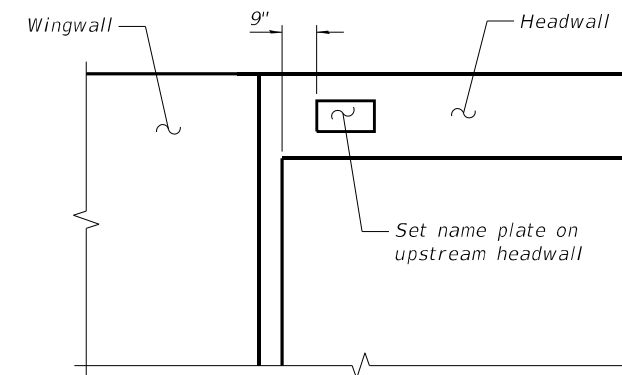


GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Drain holes shall be located within 1/3 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

- 1 - General Plan and Elevation
- 2 - General Notes and Bill of Materials
- 3 - Culvert Plan Bottom Slab Details
- 4 - Culvert Plan Top Slab Details
- 5 - Culvert Details
- 6 - Wingwall Plan and Elevation
- 7 - Wingwall Details
- 8 - Soil Boring Logs



NAME PLATE LOCATION

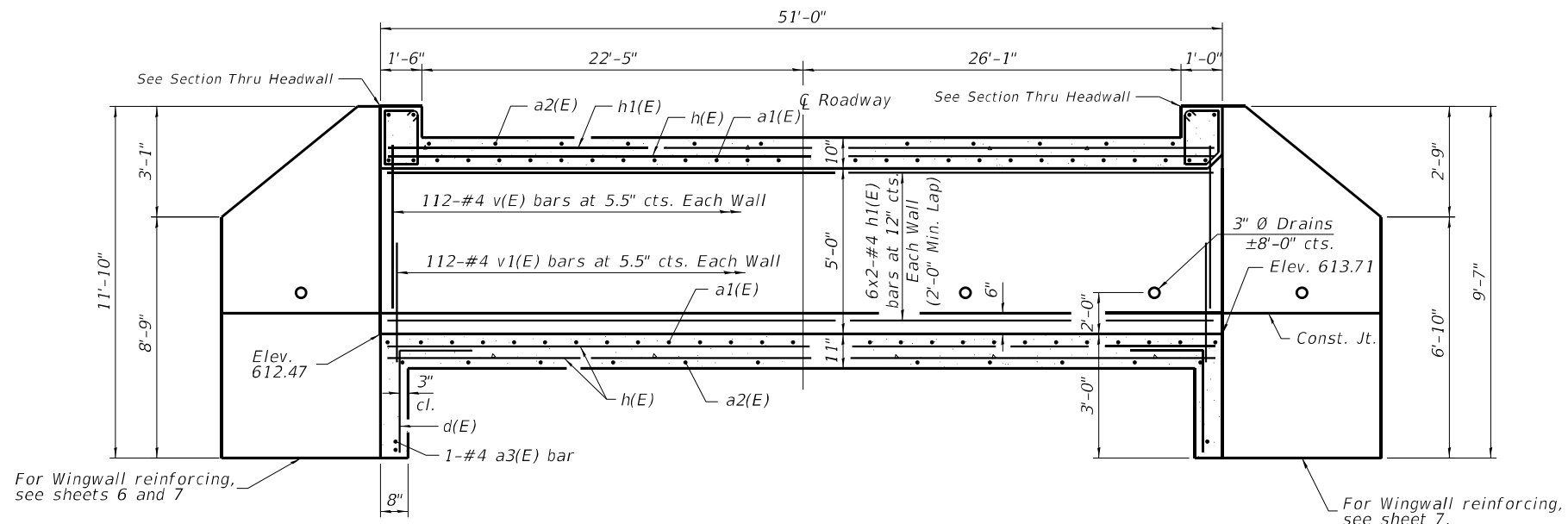
TOTAL BILL OF MATERIAL

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

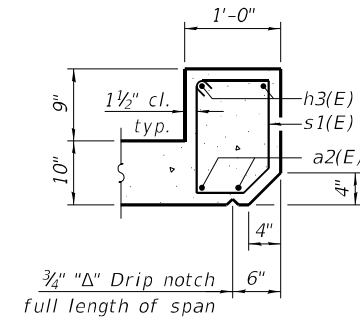
STATION 155+31.67  
 BUILT BY  
 STATE OF ILLINOIS  
 FAU 3587-SEC.2020-142-C&DR  
 LOADING HL-93  
 STRUCTURE NO. 016-1427

NAME PLATE  
 See Std. 515001

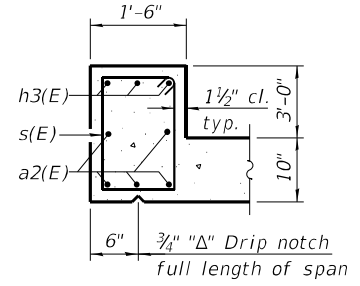
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 MOTT MACDONALD



**LONGITUDINAL SECTION**  
(Along centerline of culvert)

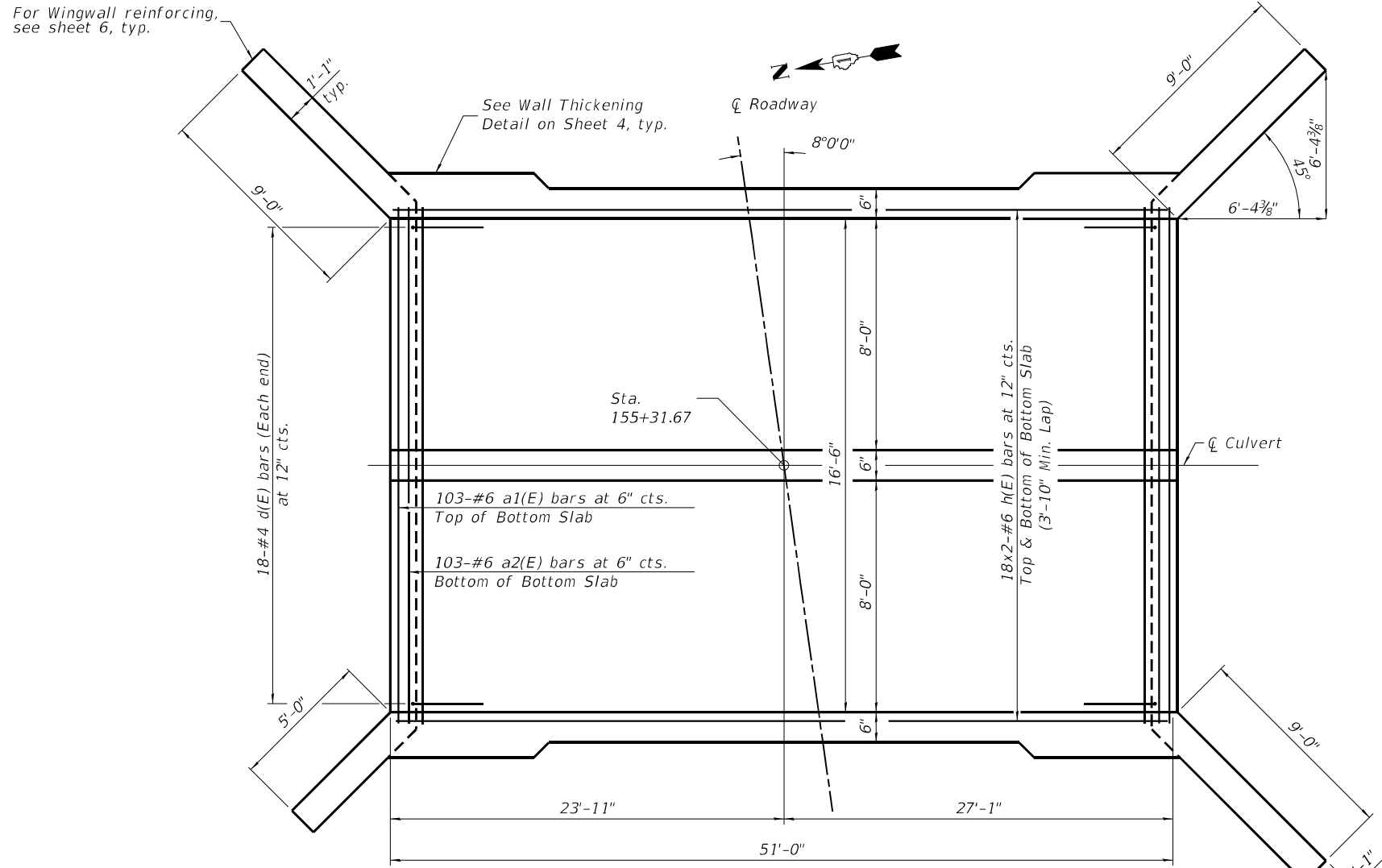


UPSTREAM



DOWNSTREAM

**SECTION THRU HEADWALL**



**SHOWING TOEWALL**

**PLAN - BOTTOM SLAB**

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

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

USER NAME = lsc-user201	DESIGNED - RAO	REVISED -
PLOT SCALE = 199,9999' / ft.	DRAWN - KBM	REVISED -
PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CULVERT PLAN BOTTOM SLAB DETAILS</b>	
<b>STRUCTURE NO. 016-1427</b>	
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				

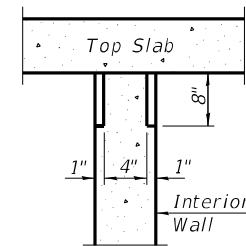
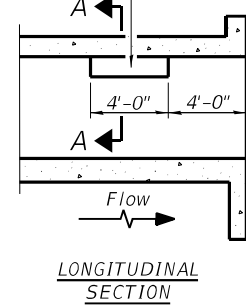


**BILL OF MATERIAL**

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

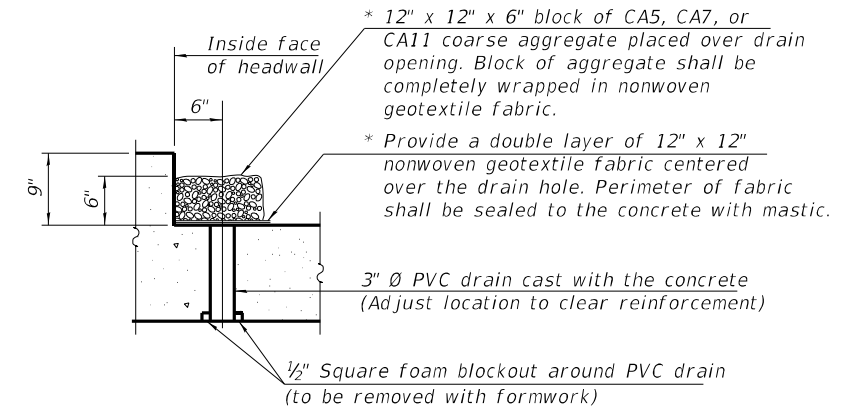
Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



**SECTION A-A**

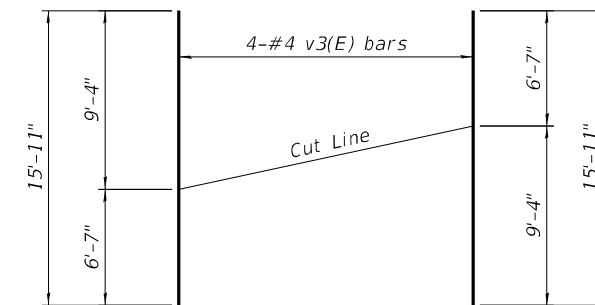
**PHOEBE NESTING  
SITE DETAILS**

\* 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.



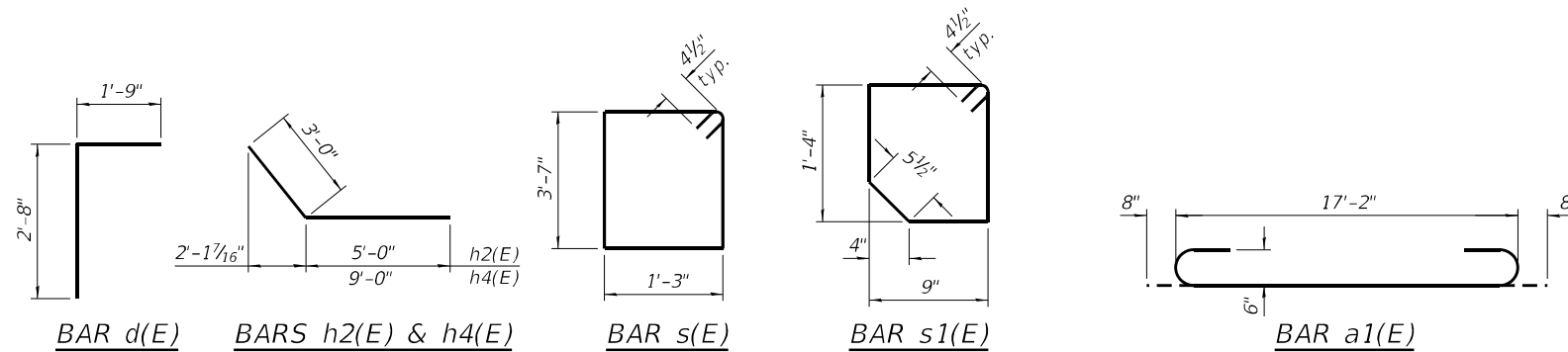
**DRAIN DETAIL**

(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.



**MINIMUM BAR LAP**

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

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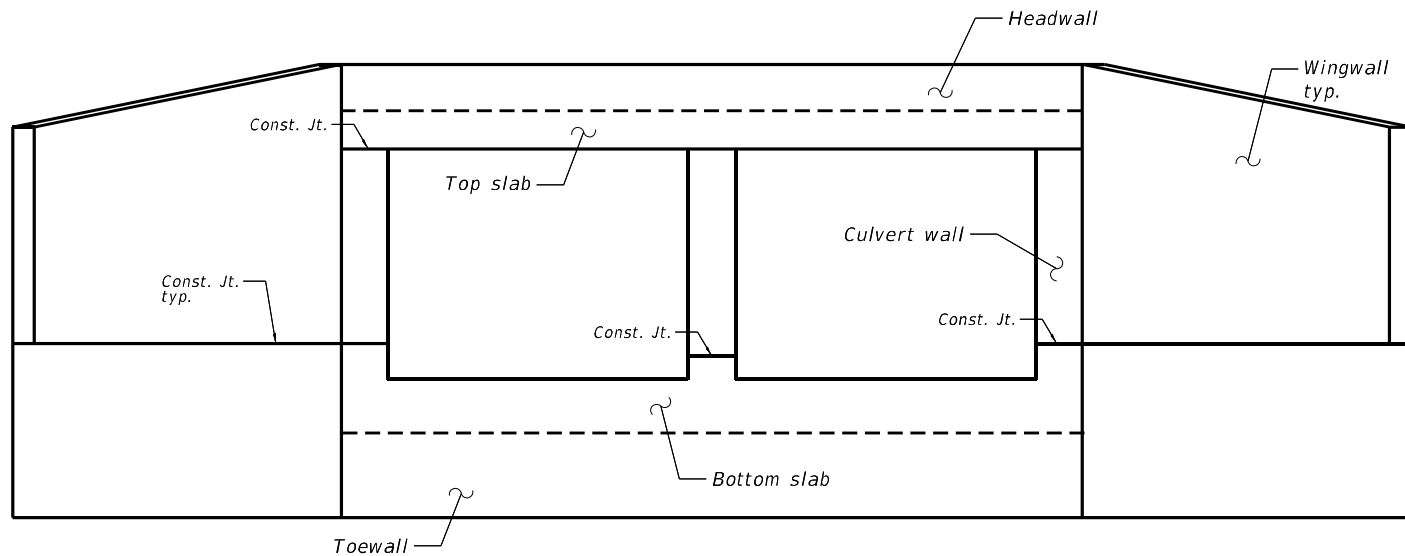
**M**  
10 S LaSalle St., #2500,  
Chicago, IL 60603

USER NAME = lsc-user201	DESIGNED - RAO	REVISED -
PLOT SCALE = 200:0 " = 1' ft.	DRAWN - KBM	REVISED -
PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

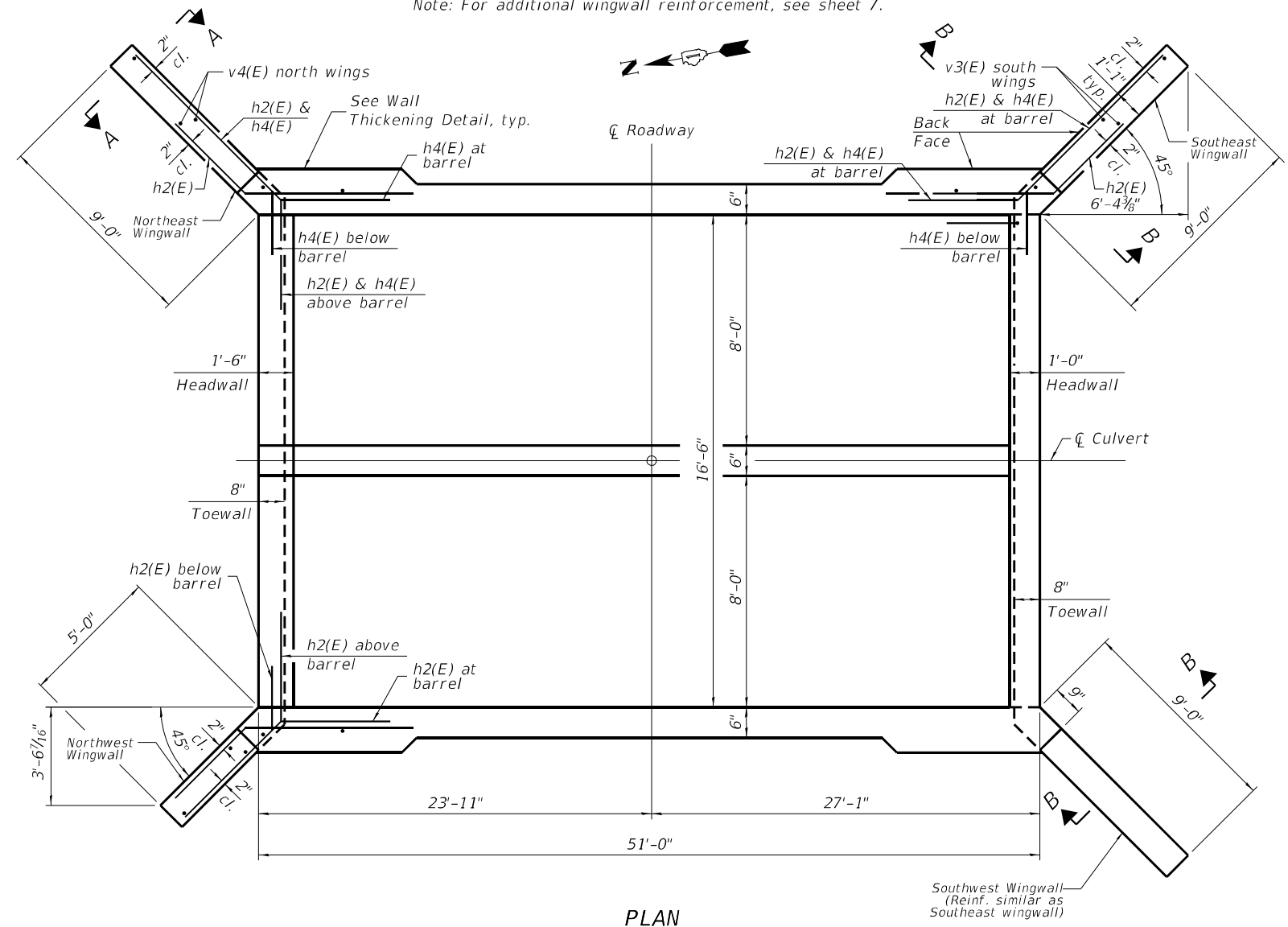
<b>CULVERT DETAILS STRUCTURE NO. 016-1427</b>	
SCALE:	SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	169
CONTRACT NO. 62L30			ILLINOIS FED. AID PROJECT	

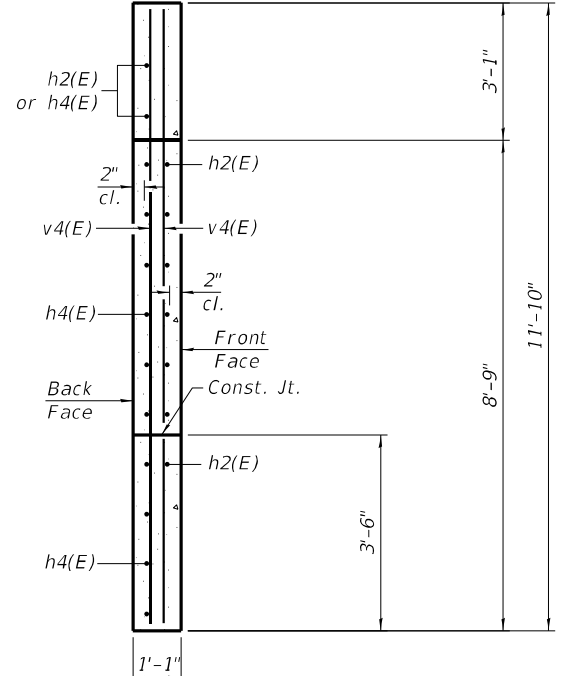


**WINGWALL ELEVATION**

Note: For additional wingwall reinforcement, see sheet 7.

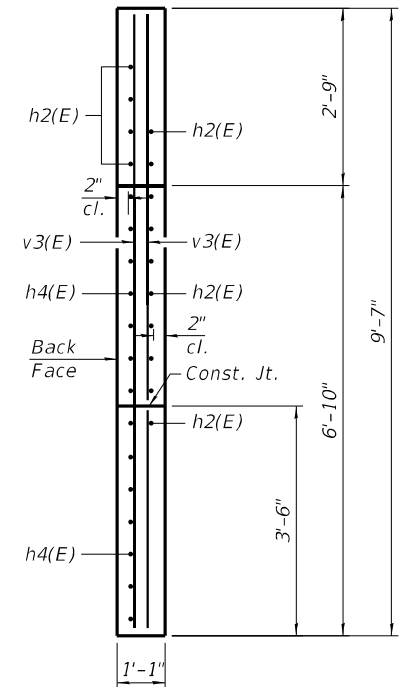


**PLAN**



**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

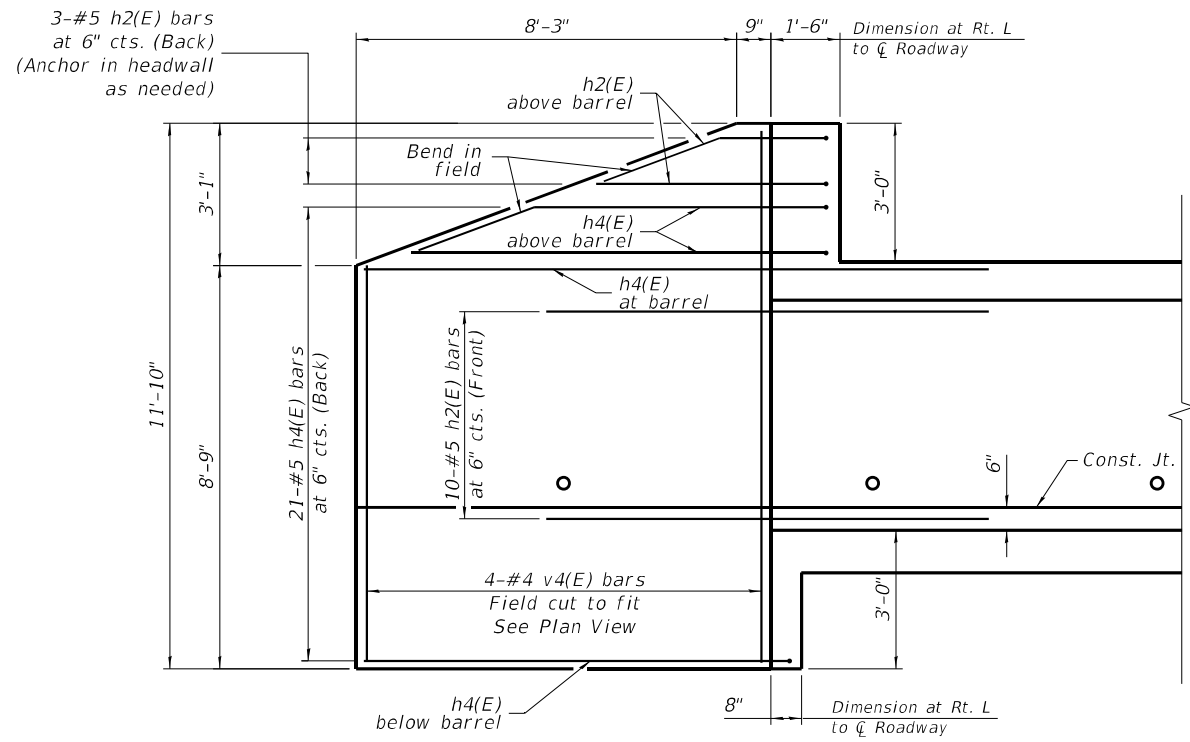
**M** 10 S LaSalle St., #2500,  
 Chicago, IL 60603  
**M**  
 MOTT  
 MACDONALD

USER NAME = iso-user201	DESIGNED - RAO	REVISED -
PLOT SCALE = 199,9999' / ft.	DRAWN - KBM	REVISED -
PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

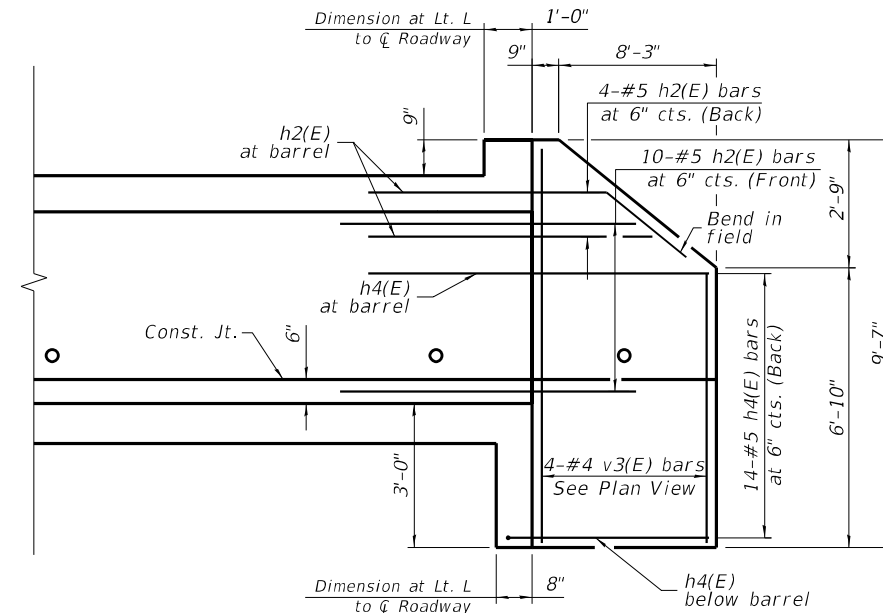
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>WINGWALL PLAN AND ELEVATION STRUCTURE NO. 016-1427</b>	
SCALE:	SHEET 6 OF 8 SHEETS STA. TO STA.

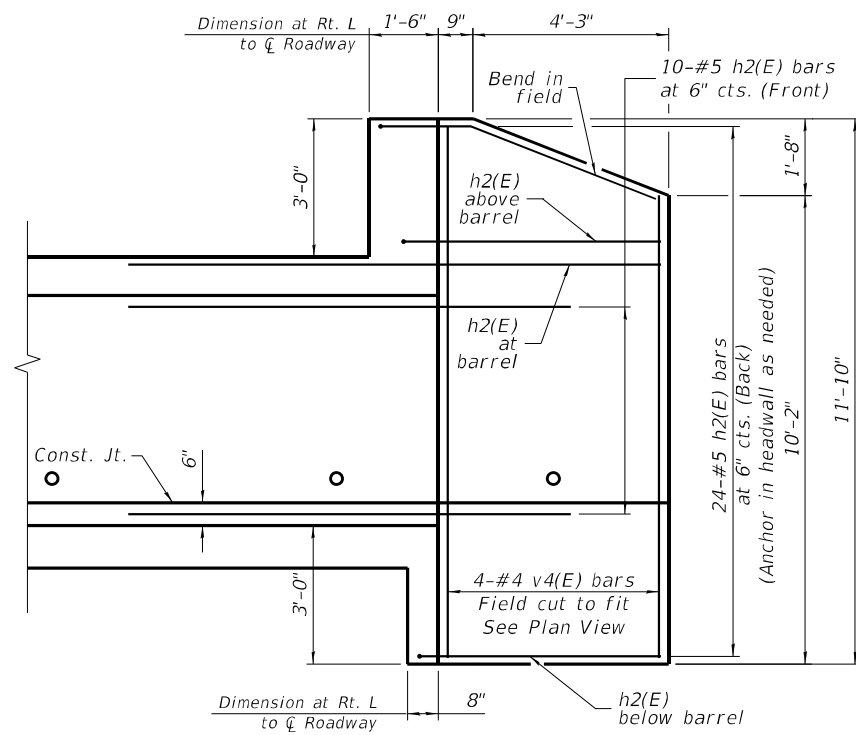
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3587	2020-142-C&DR	COOK	316	170
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				



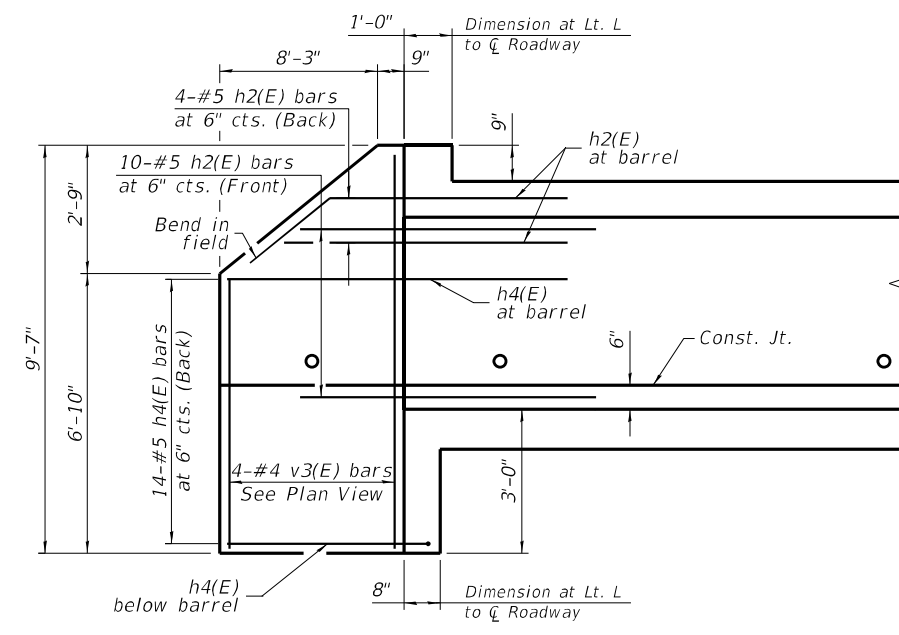
**NORTHEAST WALL**  
(Looking upstream)



**SOUTHEAST WALL**  
(Looking downstream)



**NORTHWEST WALL**  
(Looking upstream)



**SOUTHWEST WALL**  
(Looking downstream)

MODEL: Default  
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 MOTT MACDONALD

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

USER NAME = lsc-user201  
 PLOT SCALE = 200:0 " = 1 ft.  
 PLOT DATE = 1/26/2026

DESIGNED - RAO  
 DRAWN - KBM  
 CHECKED - RAO  
 DATE - 06/20/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS**  
**STRUCTURE NO. 016-1427**

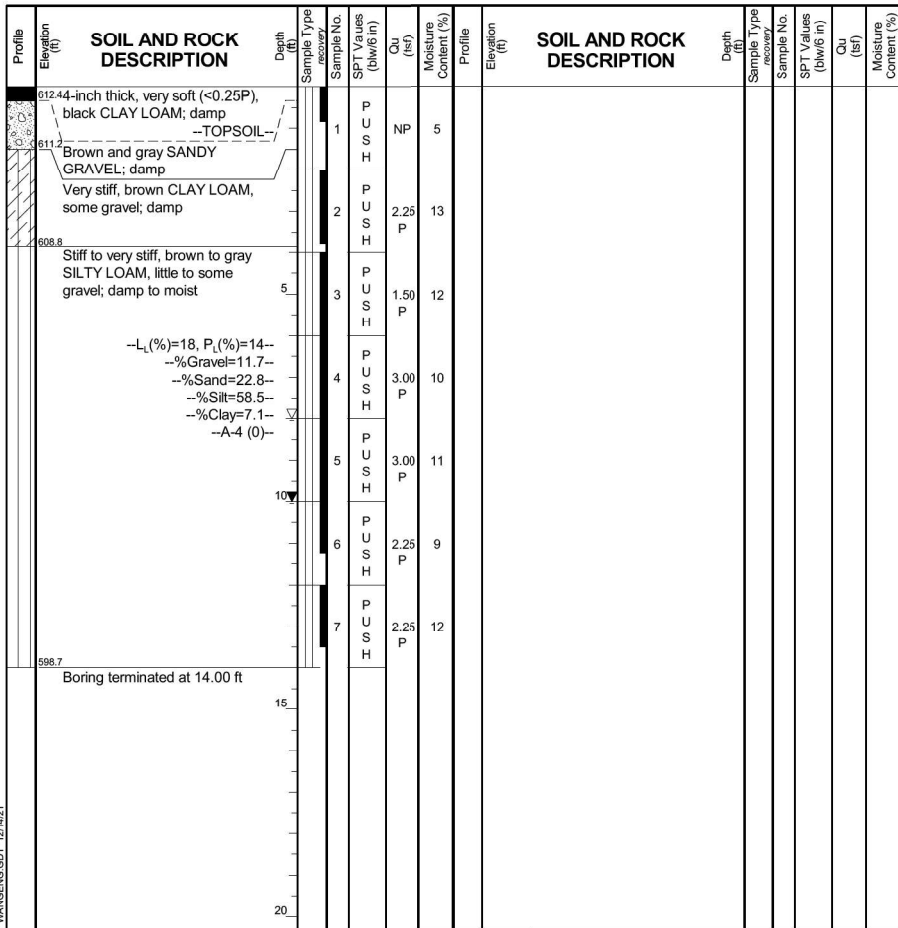
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	171
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				

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

**BORING LOG CUL-15-01**  
 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



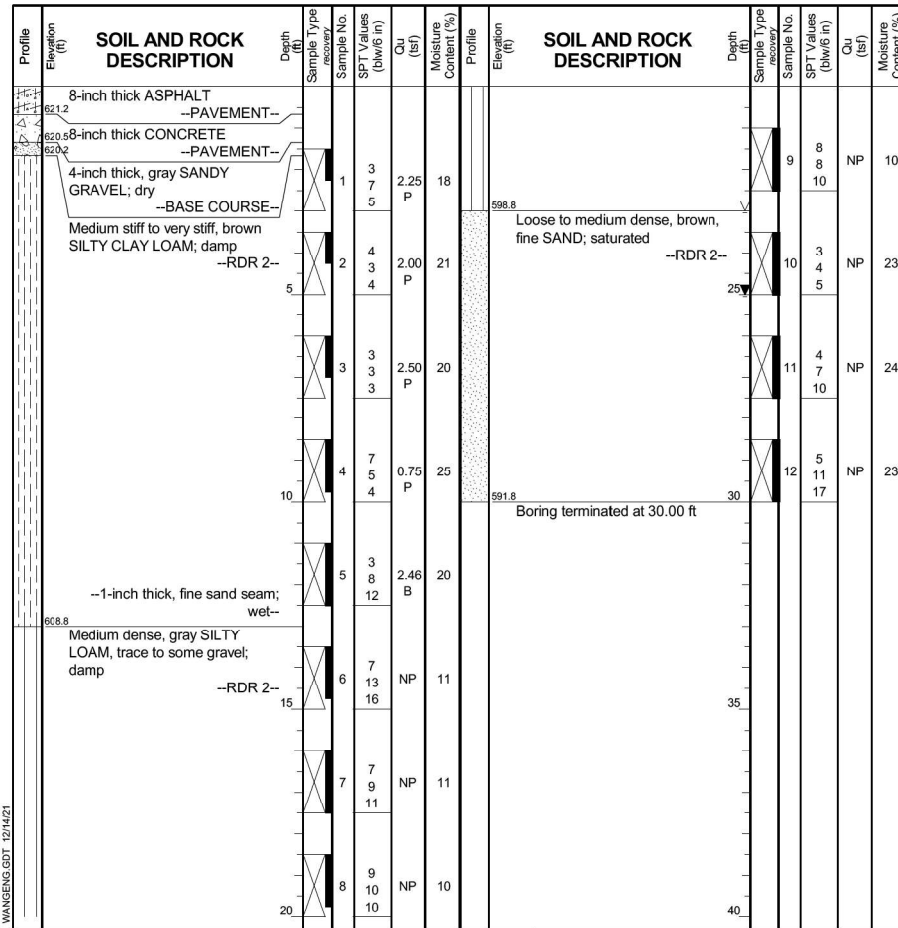
**GENERAL NOTES**  
 Begin Drilling: 10-11-2021 Complete Drilling: 10-11-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA  
 Driller: R&A Logger: M. Sadowski Checked by: C. Marin  
 Drilling Method: 1" ID HSA; boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling: 8.00 ft  
 At Completion of Drilling: 10.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

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

**BORING LOG CUL-15-02**  
 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



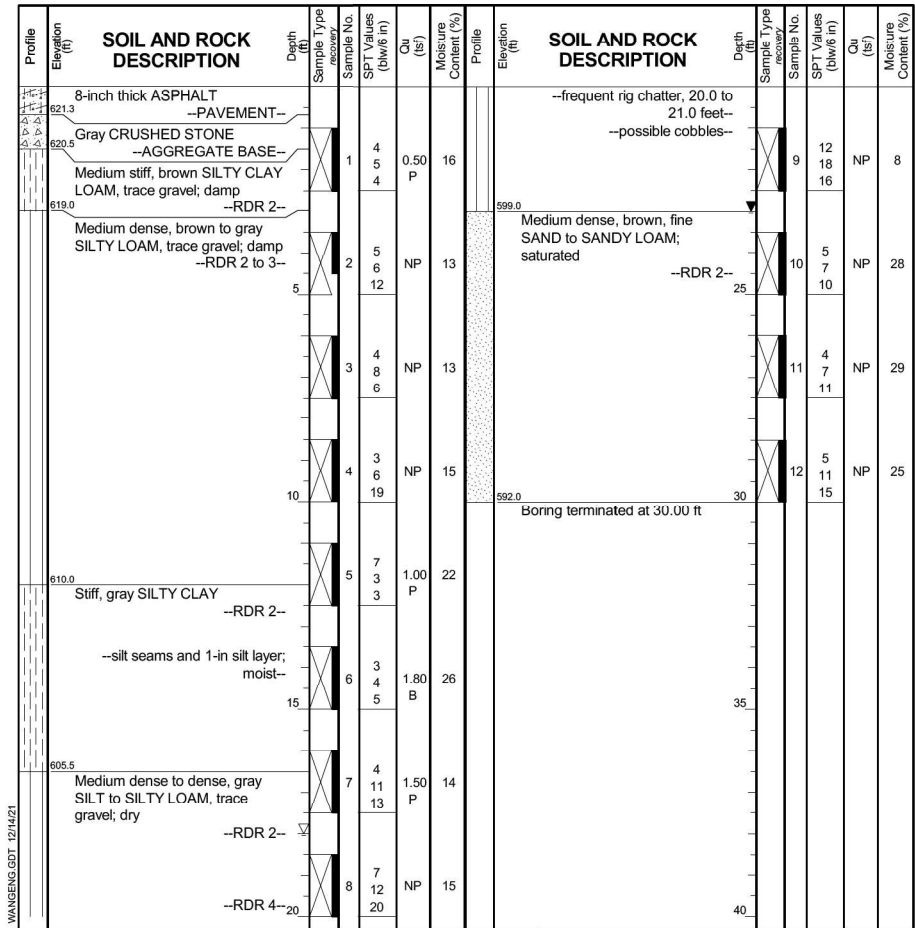
**GENERAL NOTES**  
 Begin Drilling: 10-13-2021 Complete Drilling: 10-13-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: 20CME55T[81%]  
 Driller: R&A Logger: M. Sadowski Checked by: C. Marin  
 Drilling Method: 3.25" ID HSA; boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling: 23.00 ft  
 At Completion of Drilling: 25.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

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

**BORING LOG CUL-15-03**  
 WEI Job No.: 269-02-01  
 Client: **Mott MacDonald**  
 Project: **Main Street Lemont from Wheeler RD to IL 83**  
 Location: **Cook County, IL**

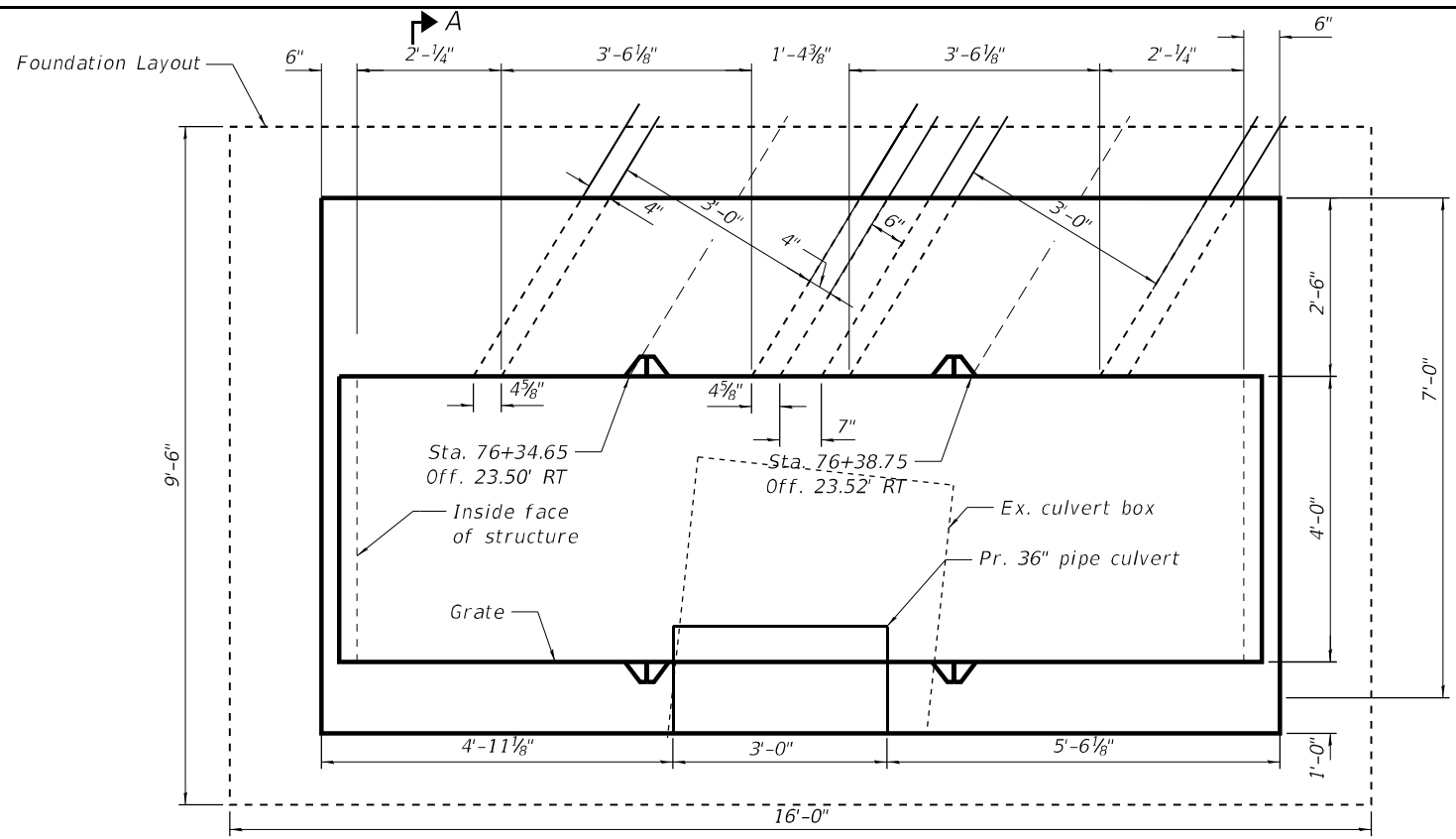
Datum: NAVD 88  
 Elevation: 621.97 ft  
 North: 1829293.33 ft  
 East: 1091991.47 ft  
 Station: 155+14.45  
 Offset: 6.04' RT



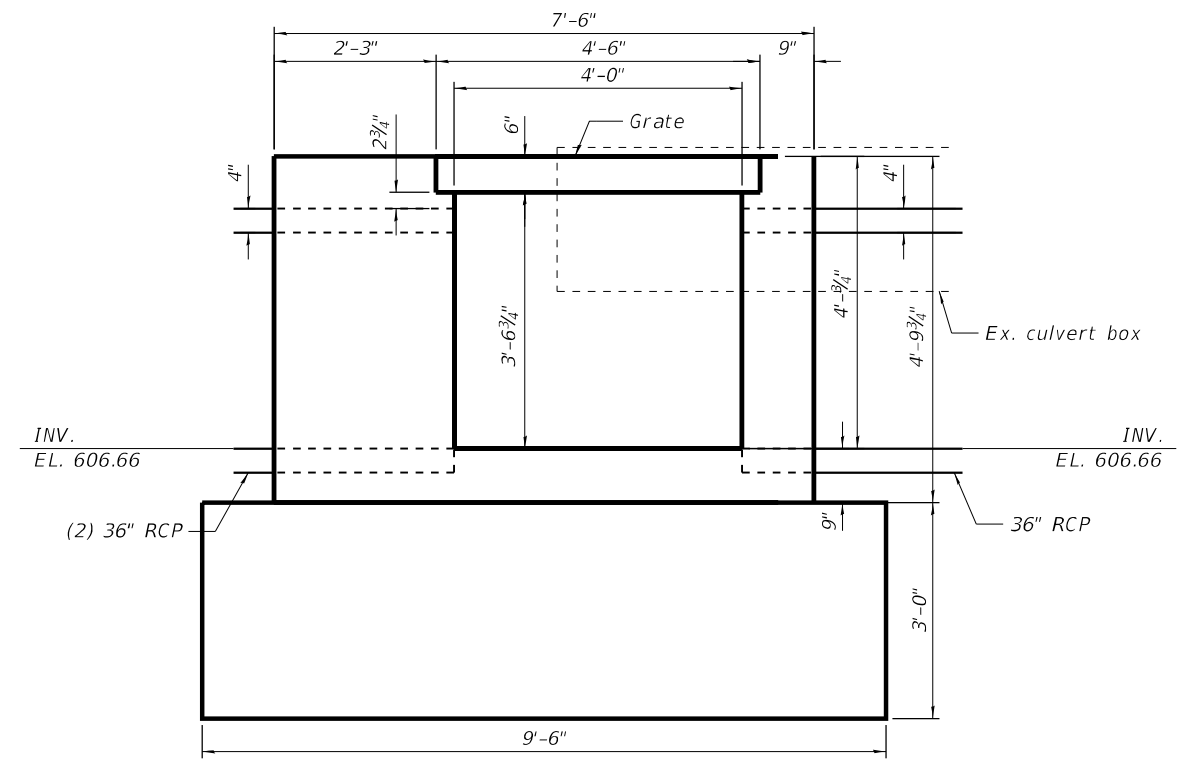
**GENERAL NOTES**  
 Begin Drilling: 10-05-2021 Complete Drilling: 10-05-2021  
 Drilling Contractor: Wang Testing Services Drill Rig: 20CME55T[81%]  
 Driller: R&H Logger: F. Bozga Checked by: C. Marin  
 Drilling Method: 3.25" ID HSA; boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling: 18.00 ft  
 At Completion of Drilling: 23.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

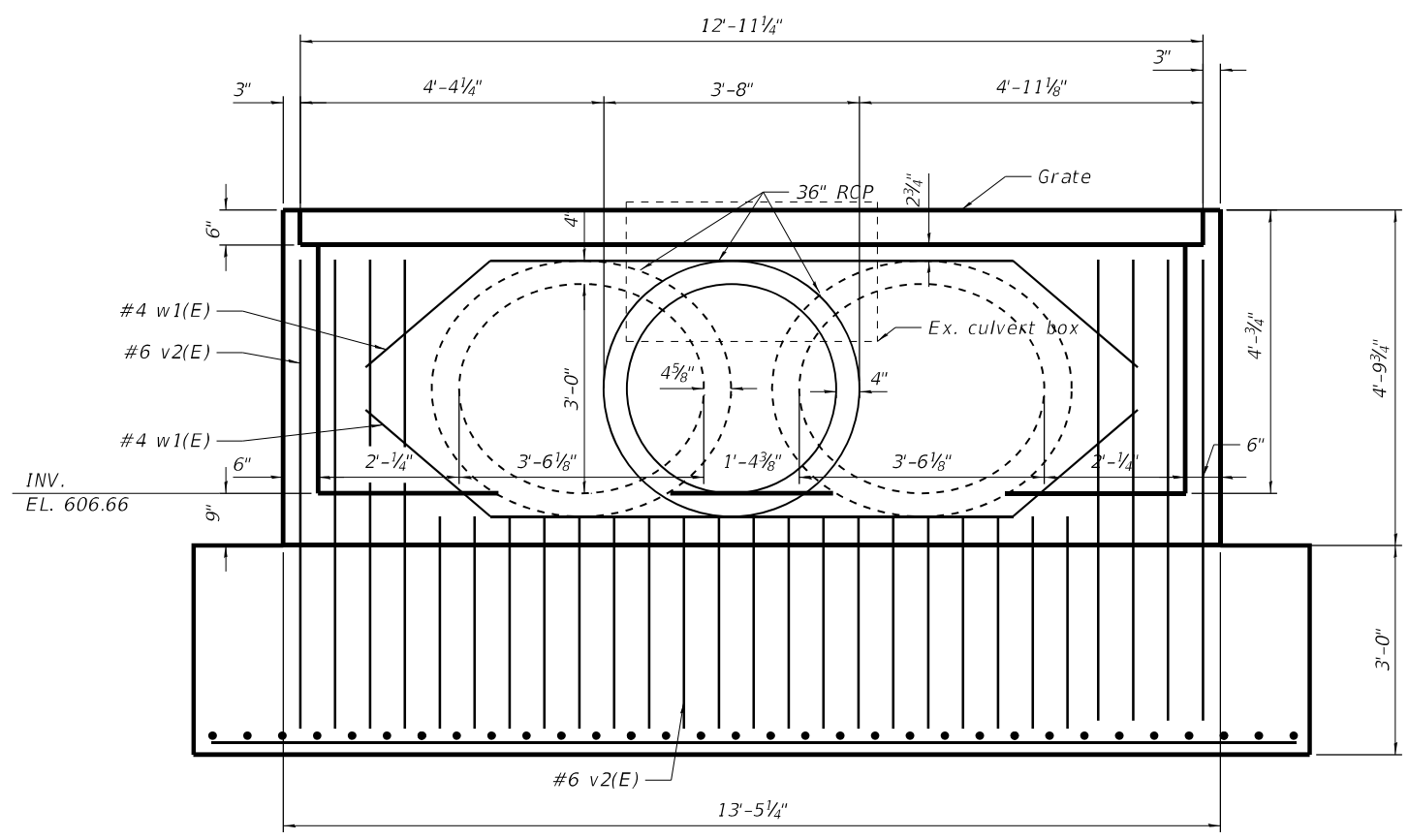
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 USER: user-201  
 DATE: 10/26/2026  
 PLOT SCALE: 1/26/2026



**BOTTOM SLAB PLAN**  
(wall reinforcement not shown for clarity)



**SECTION A-A**



**WALL ELEVATION**  
south face, looking north

MODEL: Default  
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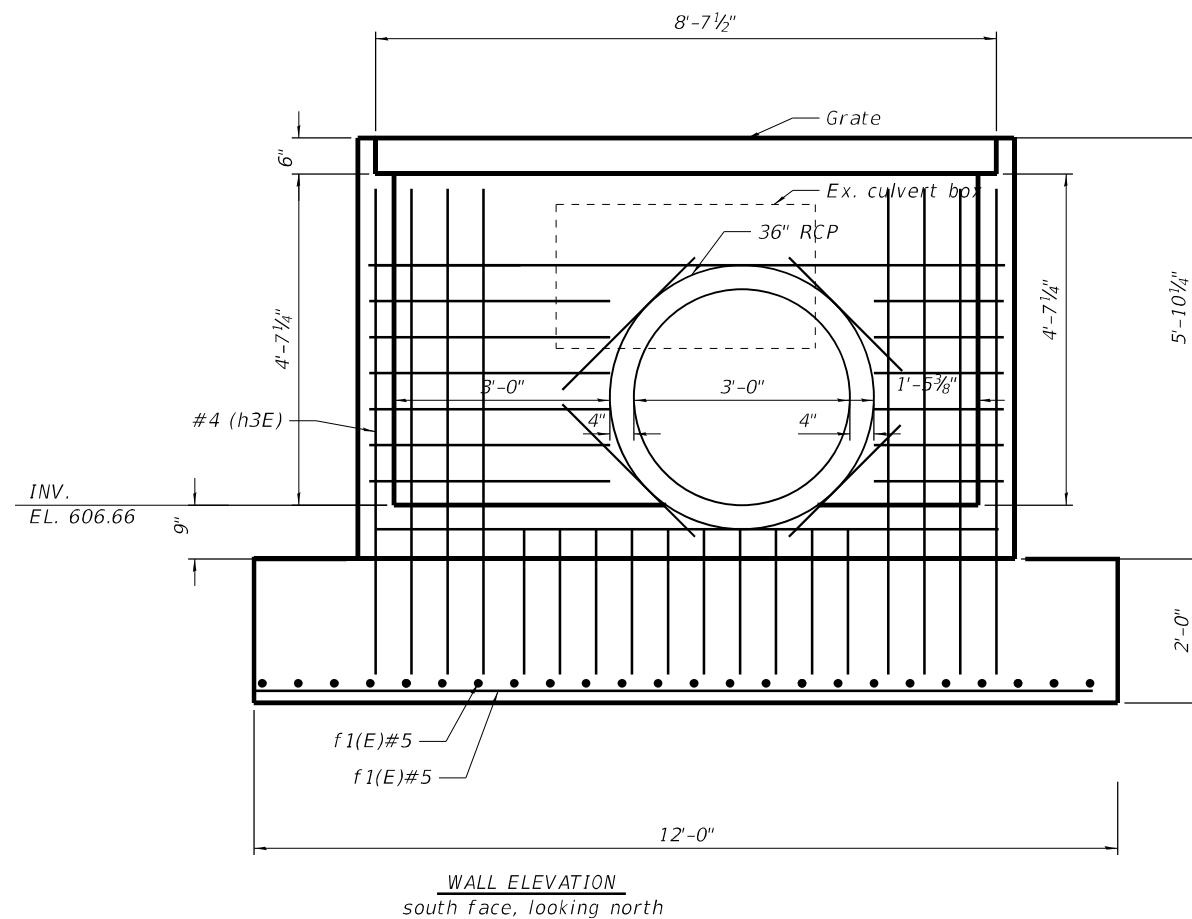
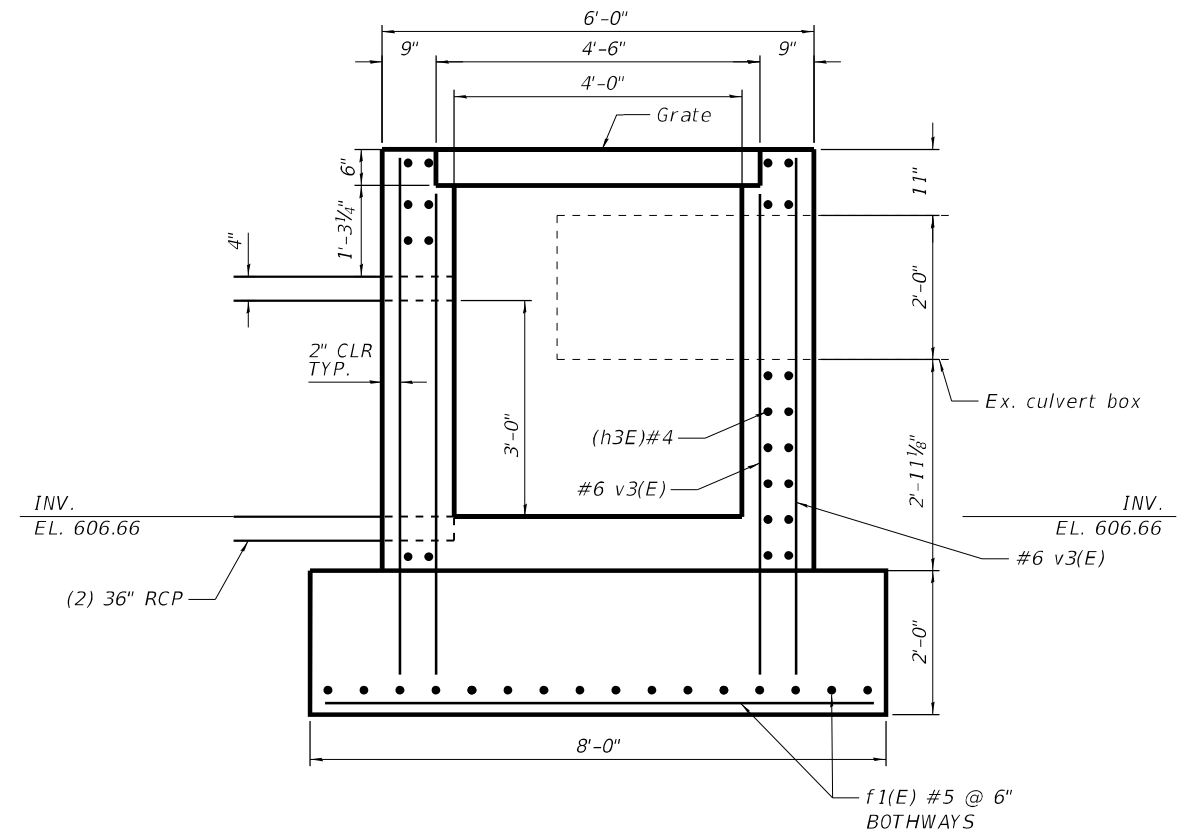
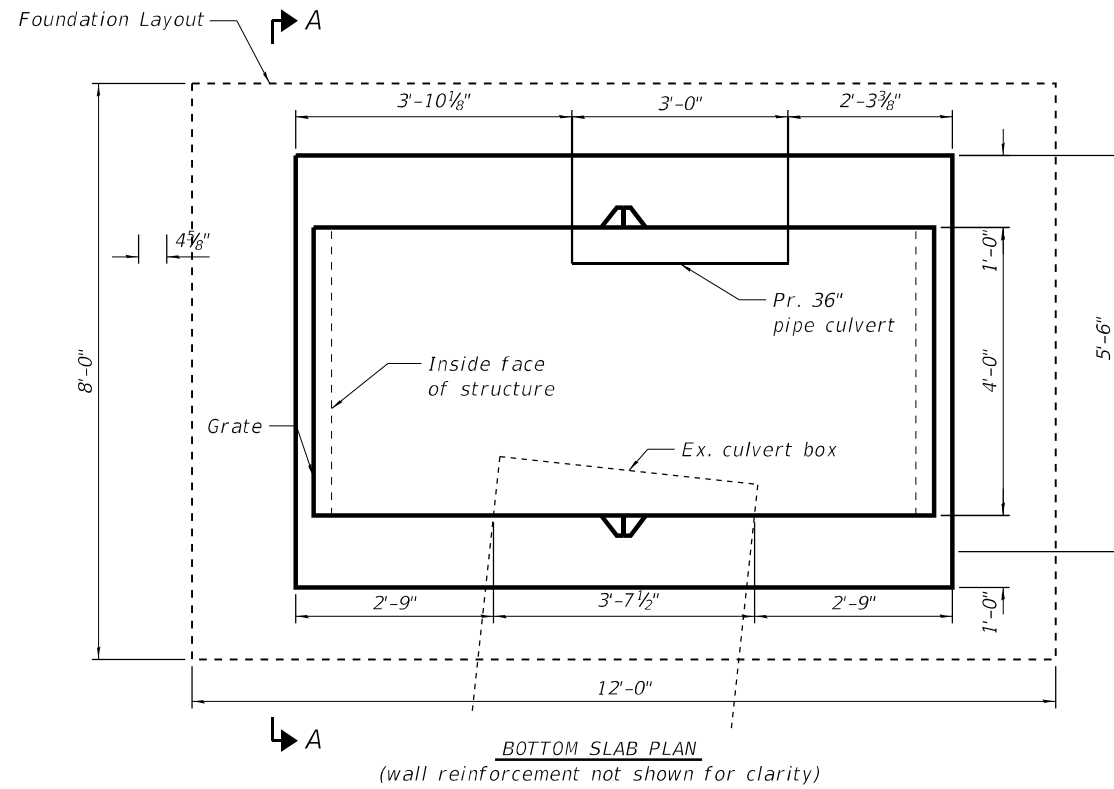
**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

USER NAME = lsc-user201	DESIGNED - RAO	REVISED -
PLOT SCALE =	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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



MODEL: Default  
 FILE: Main.dwg  
 PLOT: 1/26/2026 10:30:05 AM  
 USER: user201  
 PROJECT: 2020-142-C&DR  
 SHEET: DS-02 OF DS-04 SHEETS  
 TITLE: MAIN STREET FROM WHEELER DRIVE TO IL 83  
 OUTLET 5 DROP INLET (DR-13)

**M**  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603

**M**  
 NOTT  
 MACDONALD

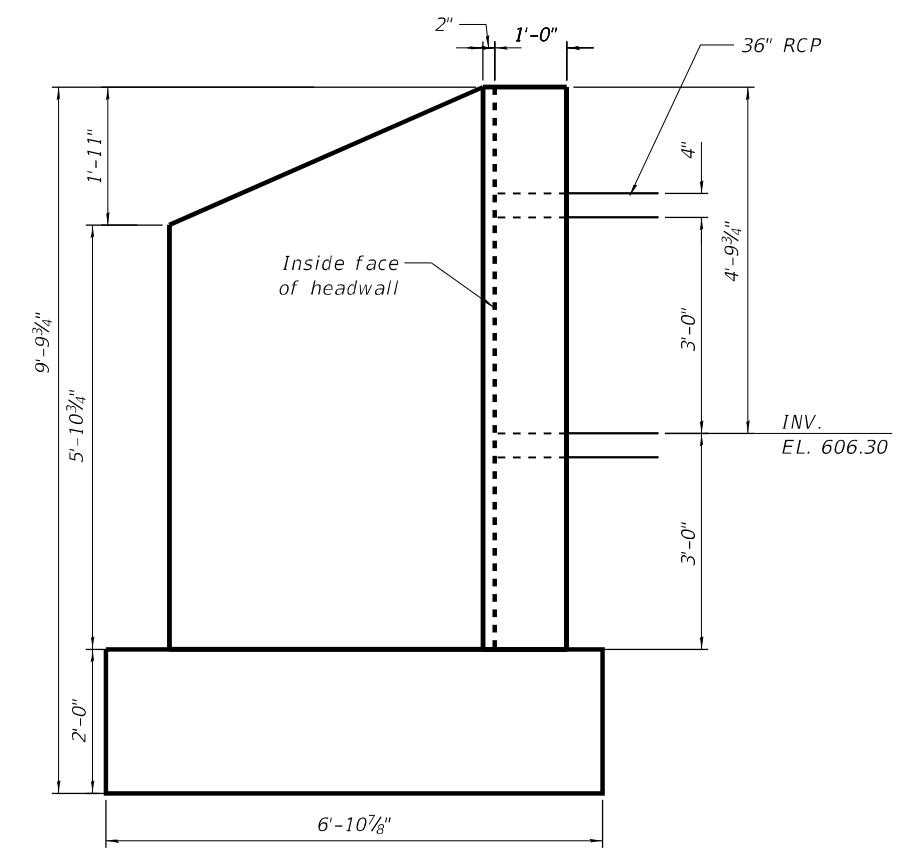
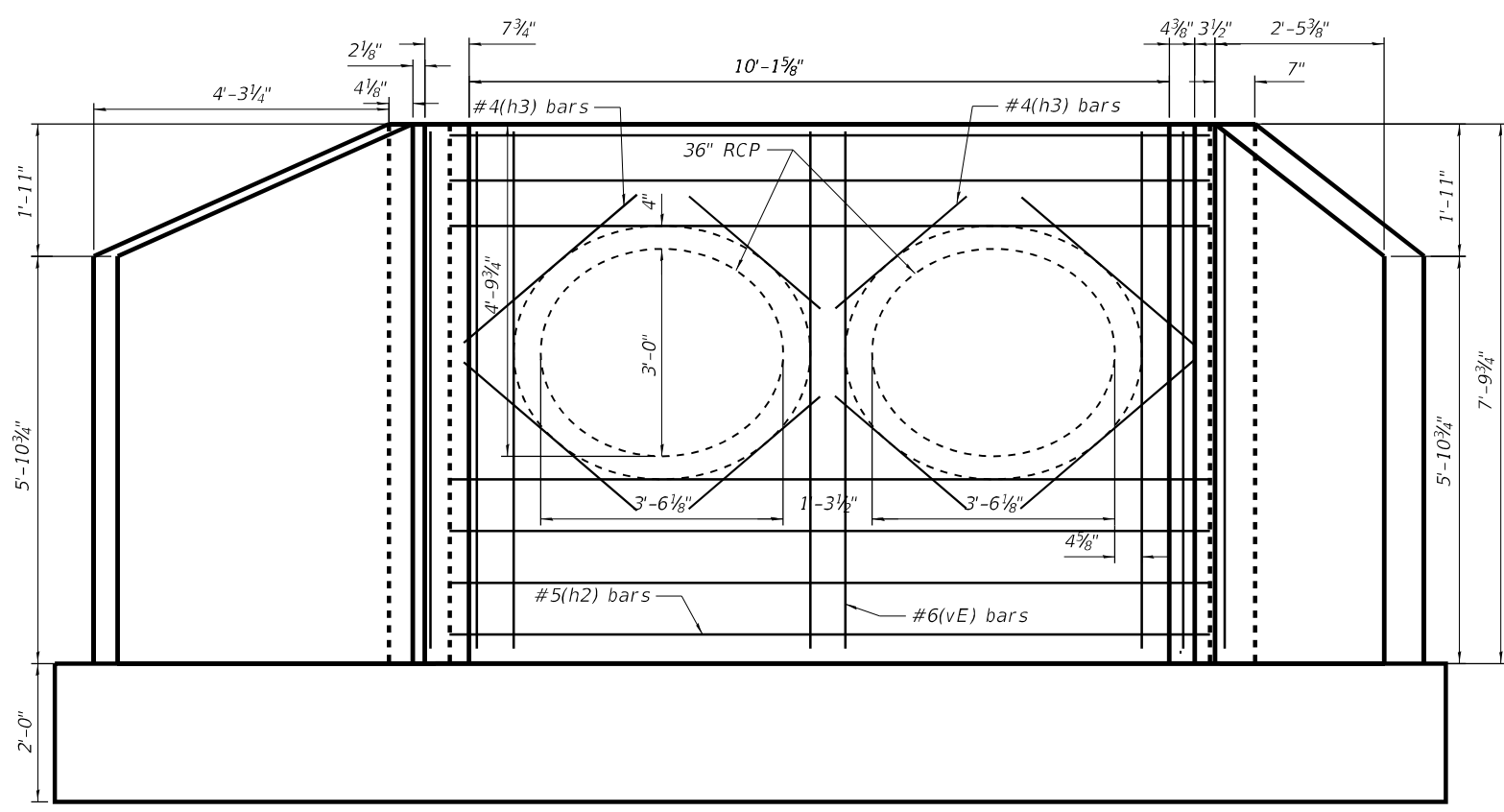
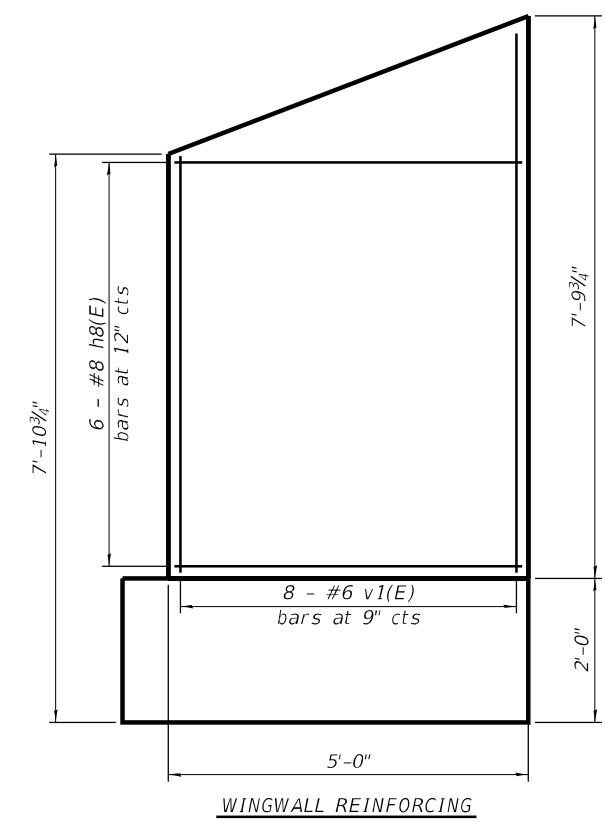
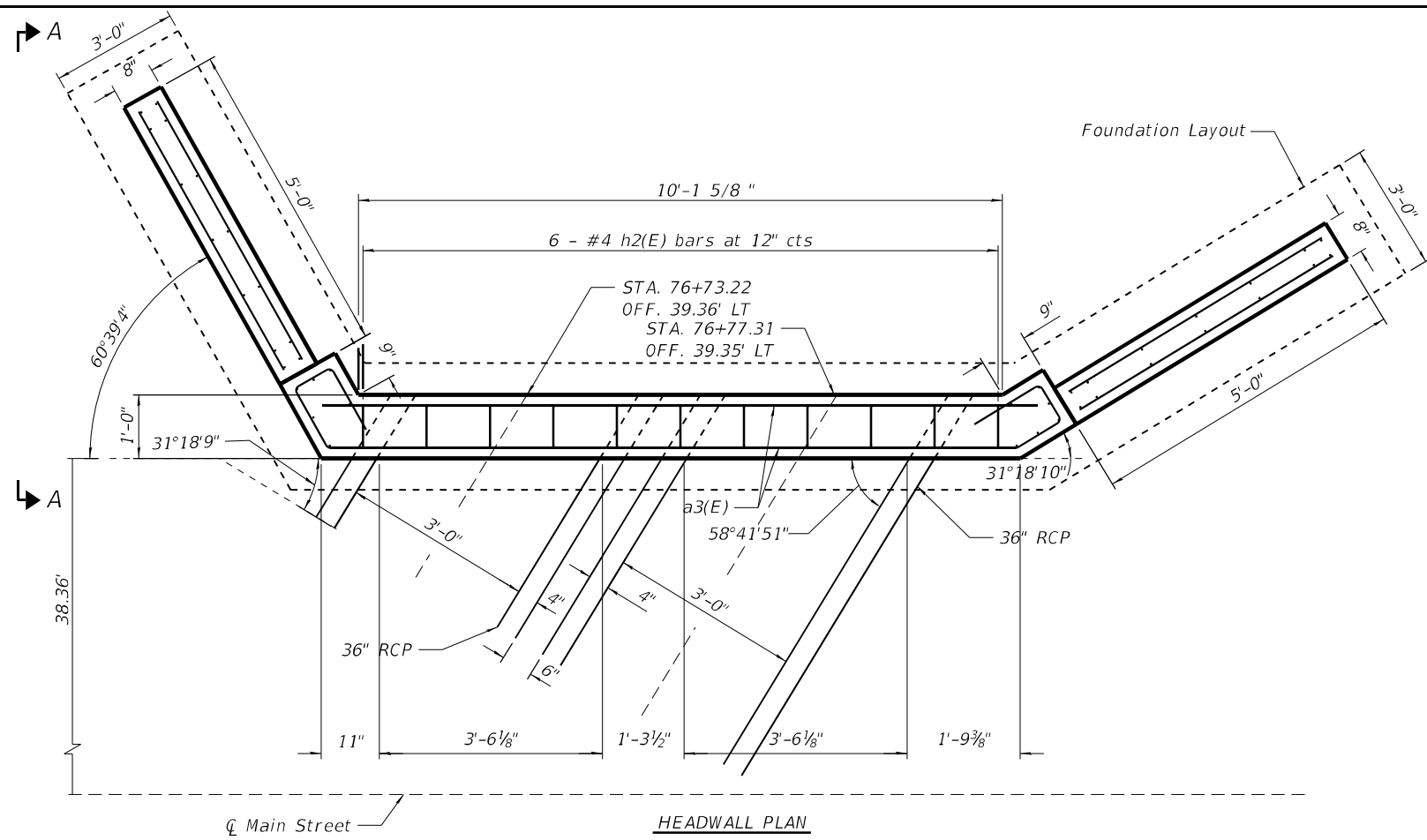
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PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET DS-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 ELEVATION  
(Looking south towards north face of headwall)

SECTION A-A

MODEL: Default  
 FILE: MAME.dwg  
 PLOT: mame.dwg  
 PLOT DATE: 1/26/2026  
 USER: user201  
 PROJECT: 2020-142-C&DR  
 SHEET: DS-03 OF DS-04 SHEETS  
 STA: 3587 TO STA. 3588  
 CONTRACT NO. 62L30

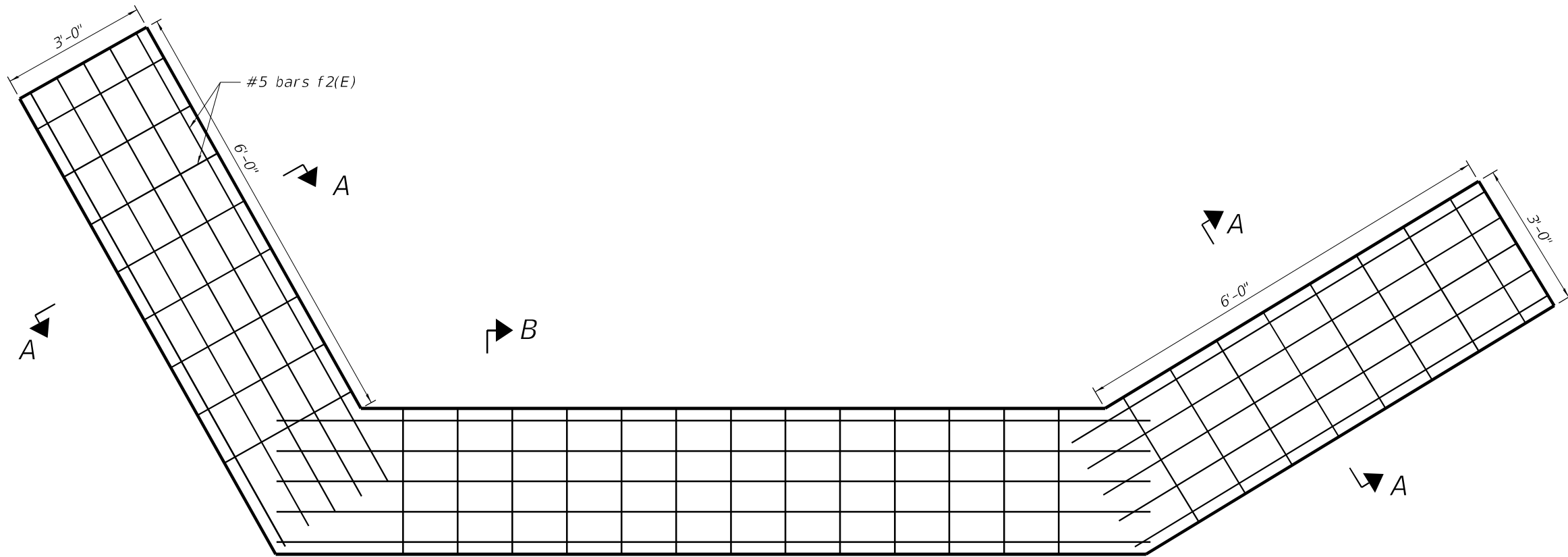
**M**  
 NOTT  
 MACDONALD  
 10 S LaSalle St., #2520,  
 Chicago, IL 60603

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAIN STREET FROM WHEELER DRIVE TO IL 83	
OUTLET 5 HEADWALL	
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				

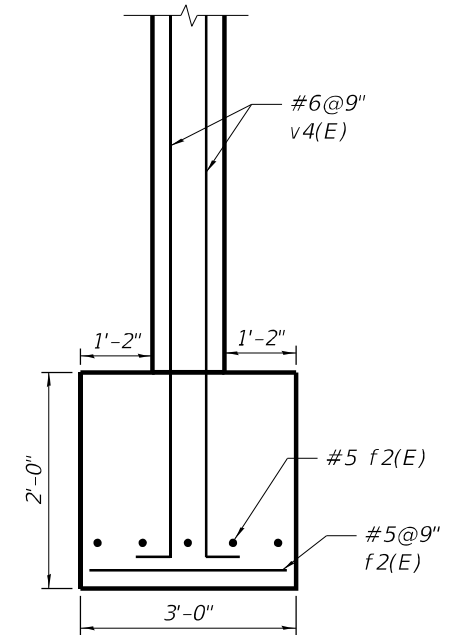


FOUNDATION PLAN

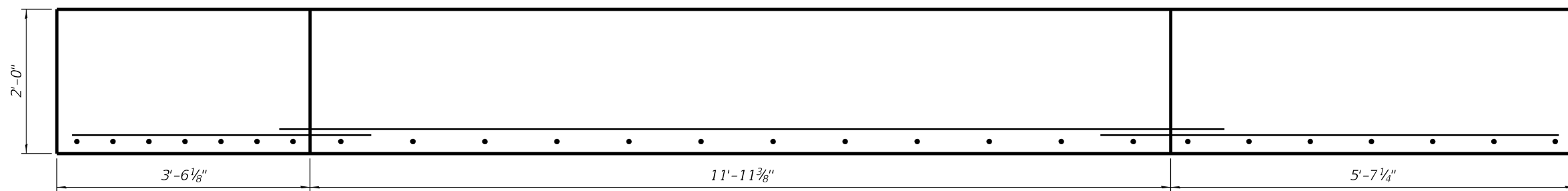
OUTLET TOTAL BILL OF MATERIAL

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.

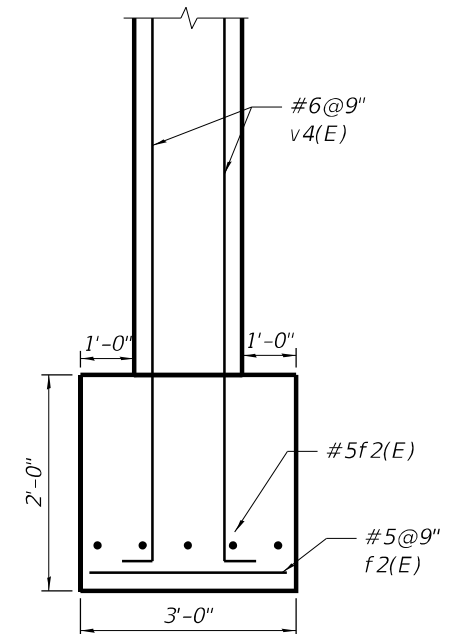


SECTION A-A



FOUNDATION ELEVATION

(Looking north towards south face of headwall foundation)



SECTION B-B

MODEL: Default  
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**M** 10 S LaSalle St., #2520,  
 Chicago, IL 60603  
**NOTT**  
**MACDONALD**

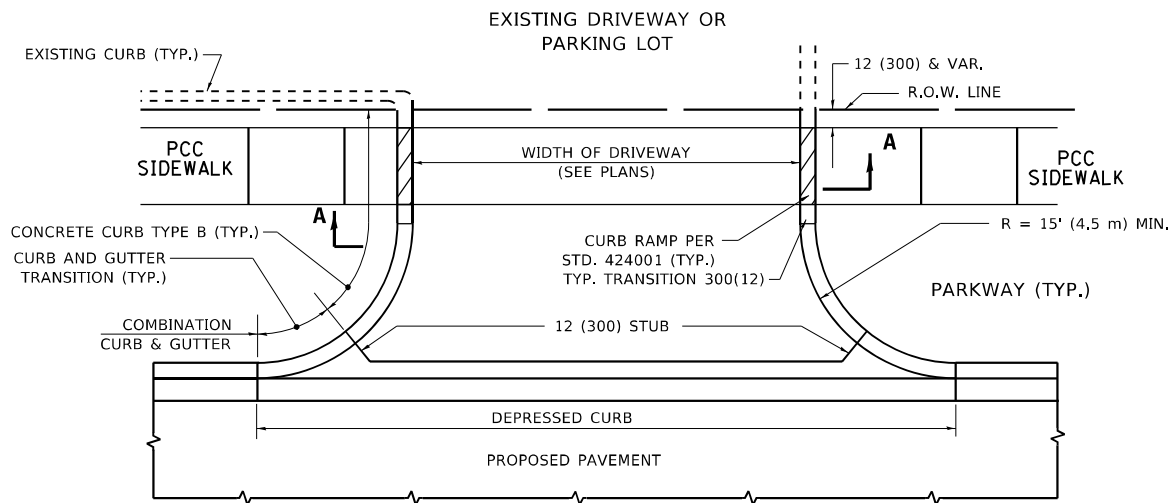
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PLOT DATE = 1/26/2026	CHECKED - RAO	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

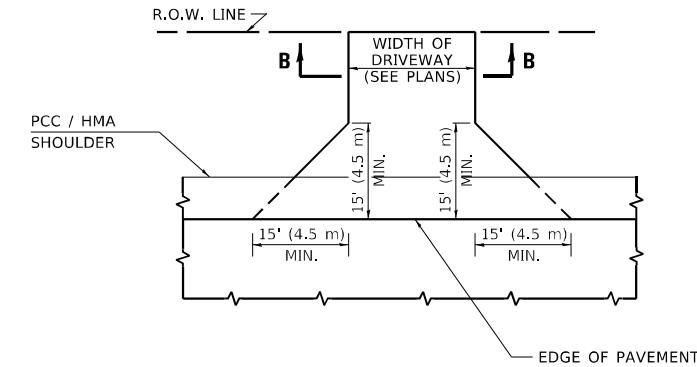
**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**OUTLET 5 HEADWALL FOUNDATION PLAN**

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

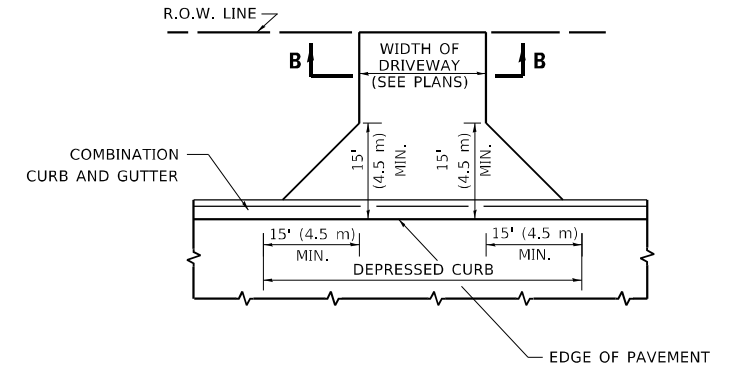
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	176
CONTRACT NO. 62L30				
ILLINOIS FED. AID PROJECT				



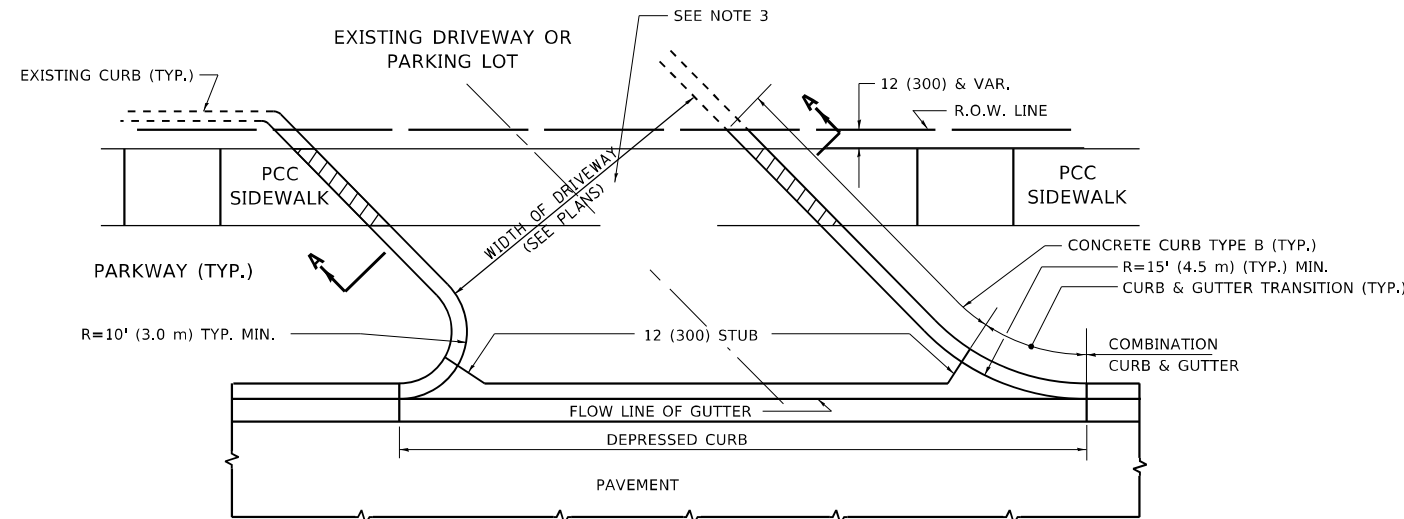
**WITH CONCRETE CURB, TYPE B**



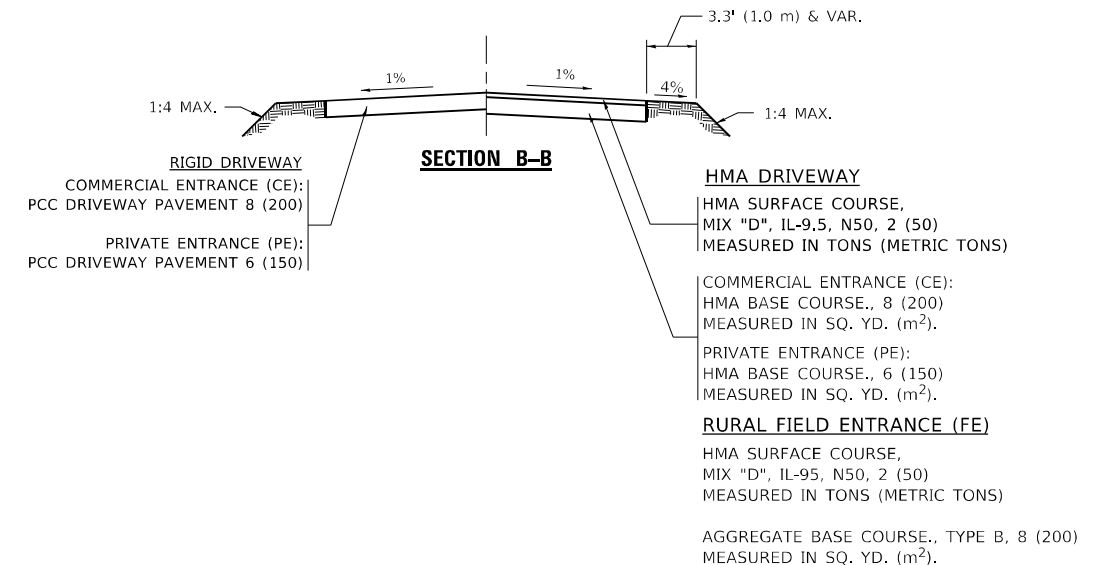
**ADJACENT TO PCC /HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**WITH CONCRETE CURB, TYPE B**



**RIGID DRIVEWAY**  
 COMMERCIAL ENTRANCE (CE):  
 PCC DRIVEWAY PAVEMENT 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)  
 PRIVATE ENTRANCE (PE):  
 PCC DRIVEWAY PAVEMENT 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>)

**SECTION A-A**

**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<sup>2</sup>).  
 PRIVATE ENTRANCE (PE):  
 HMA BASE COURSE, 6 (150)  
 MEASURED IN SQ. YD. (m<sup>2</sup>).

**GENERAL NOTES**

- 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.
- 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.

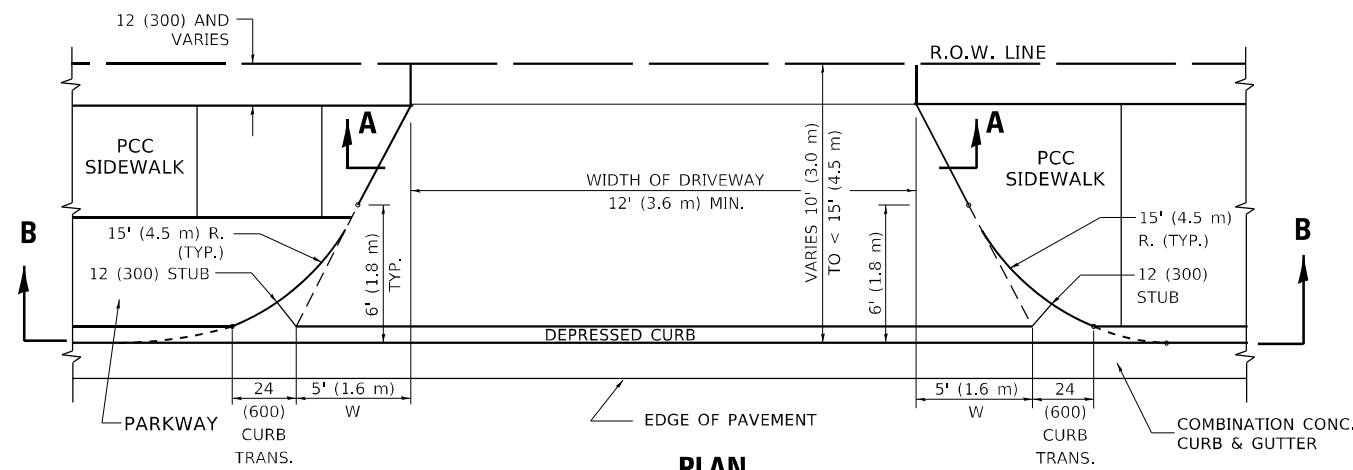
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

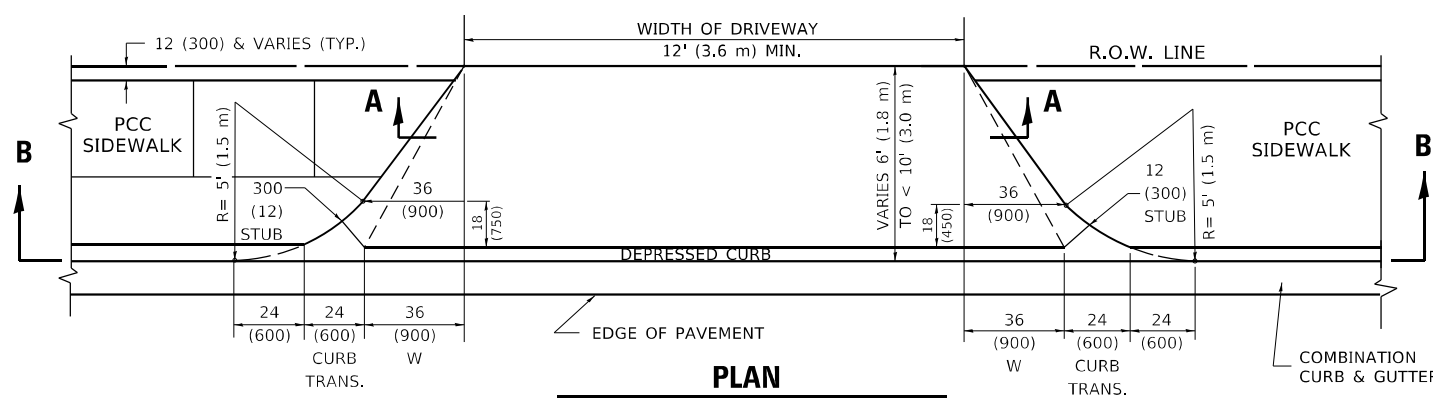
**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)**  
 SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

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				

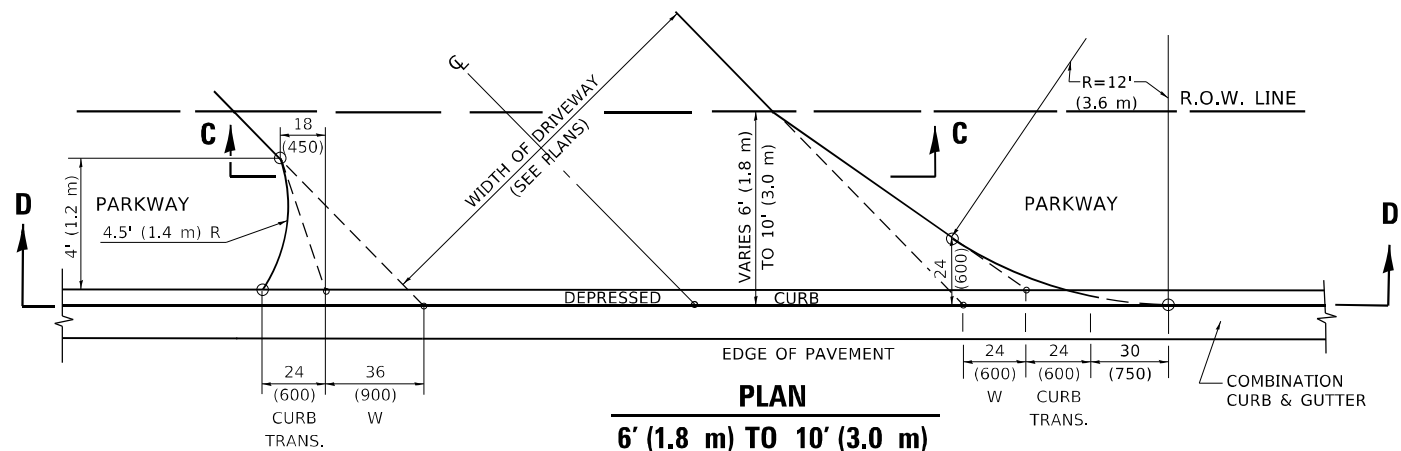
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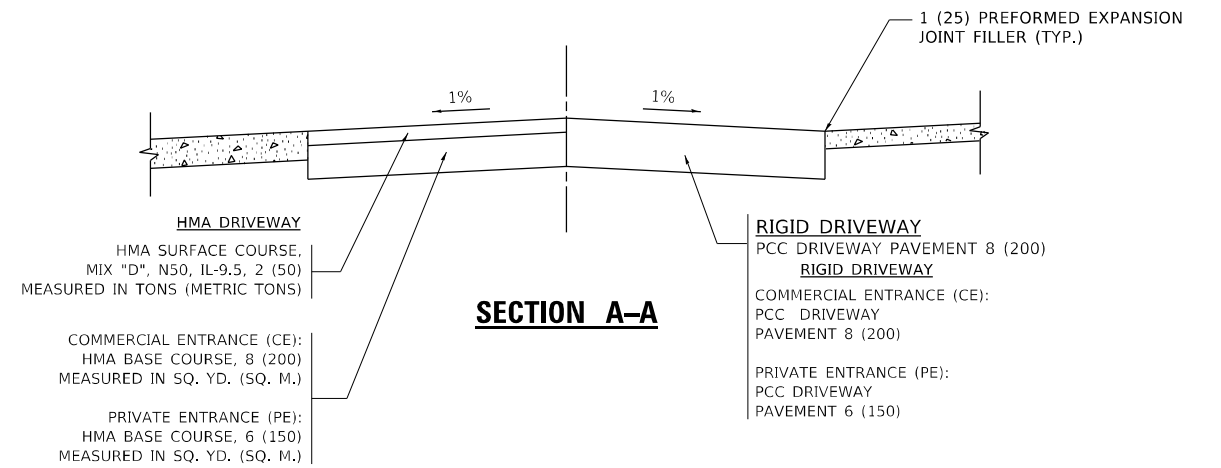
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



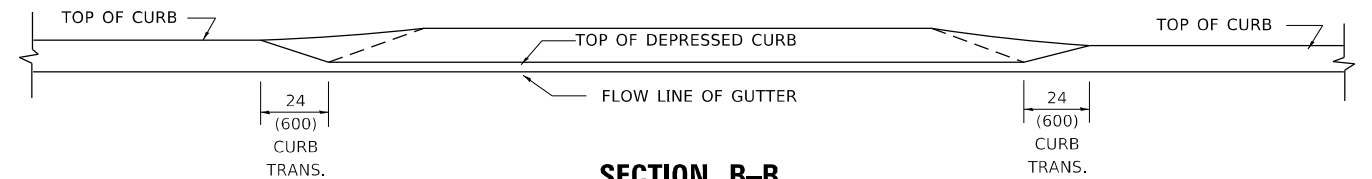
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



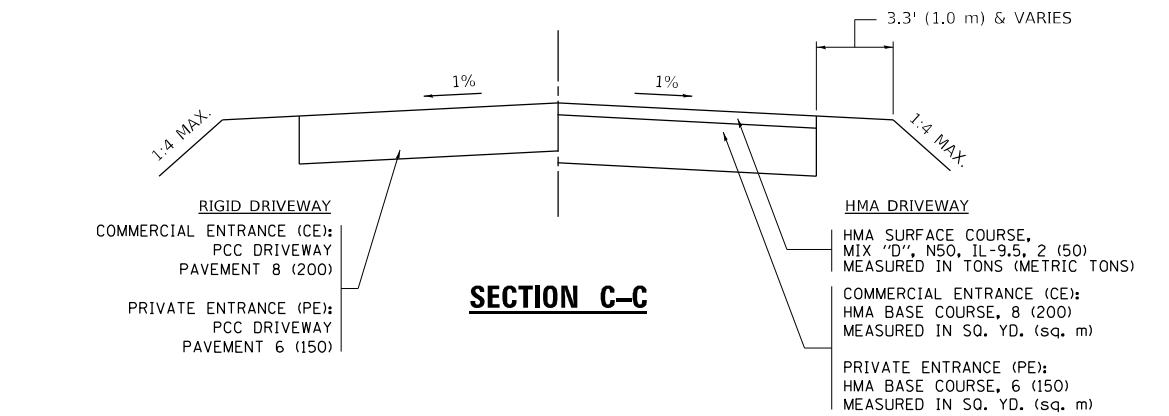
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



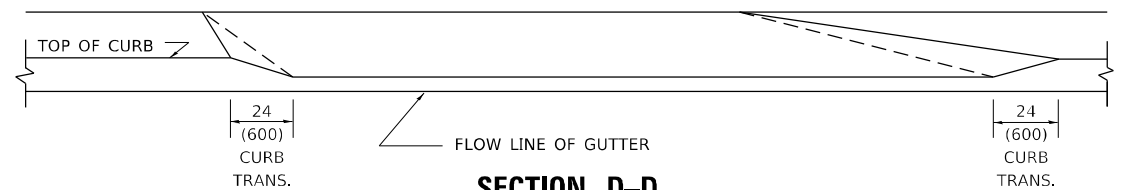
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**GENERAL NOTES**

- 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.
- 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.
- "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.

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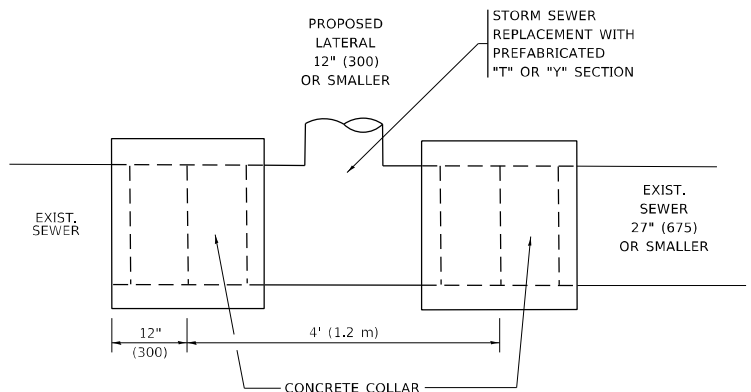
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	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-27-19
PLOT DATE = 11/18/2022	DATE - 11-06-95	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

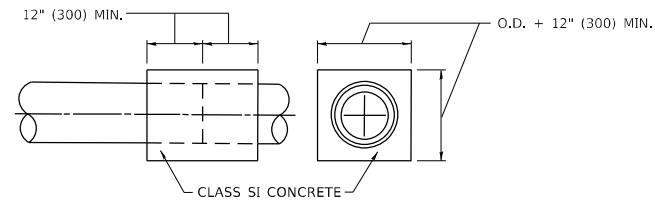
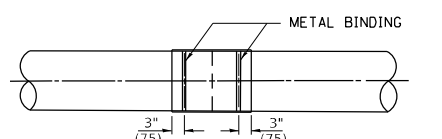
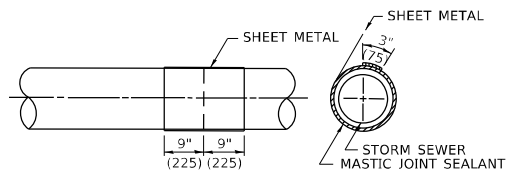
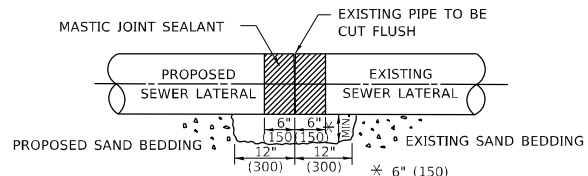
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

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				



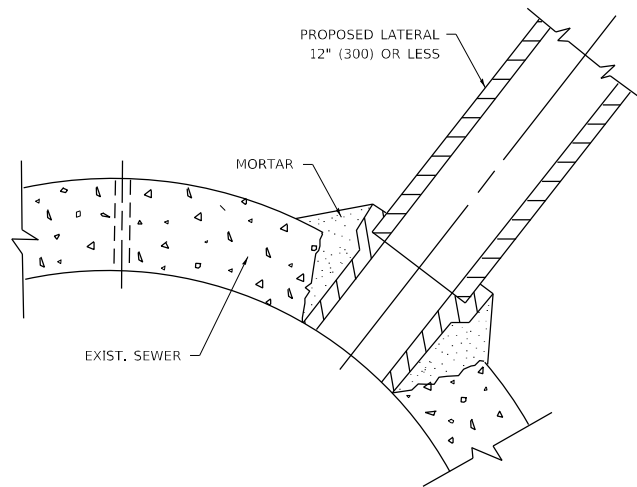
**DETAIL "A"**

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



**DETAIL "B"**

CLASS SI CONCRETE COLLAR



**DETAIL "C"**

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

**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.

**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**

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "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**

- 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.
- CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

- 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.
- 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.
- TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
- CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

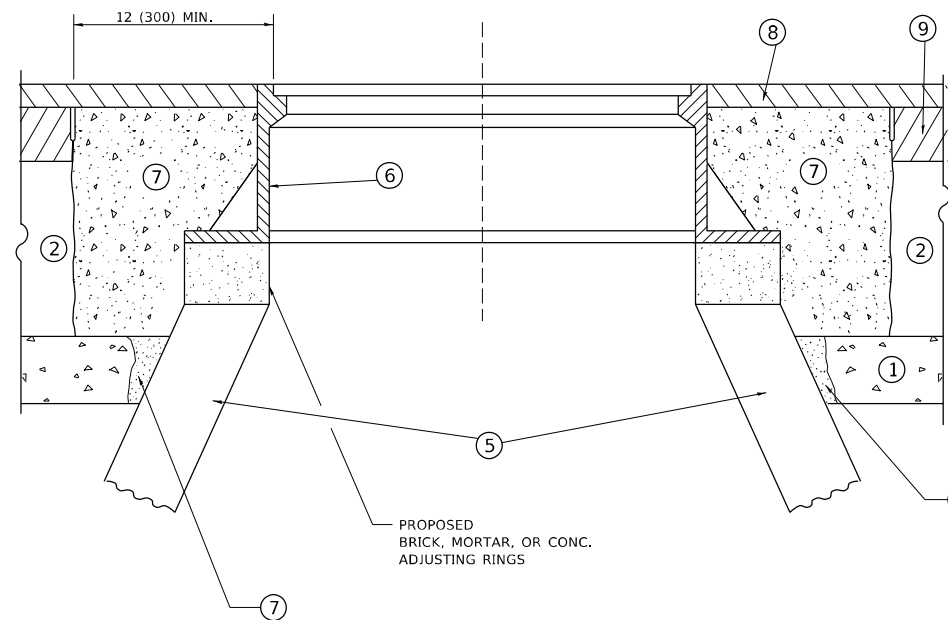
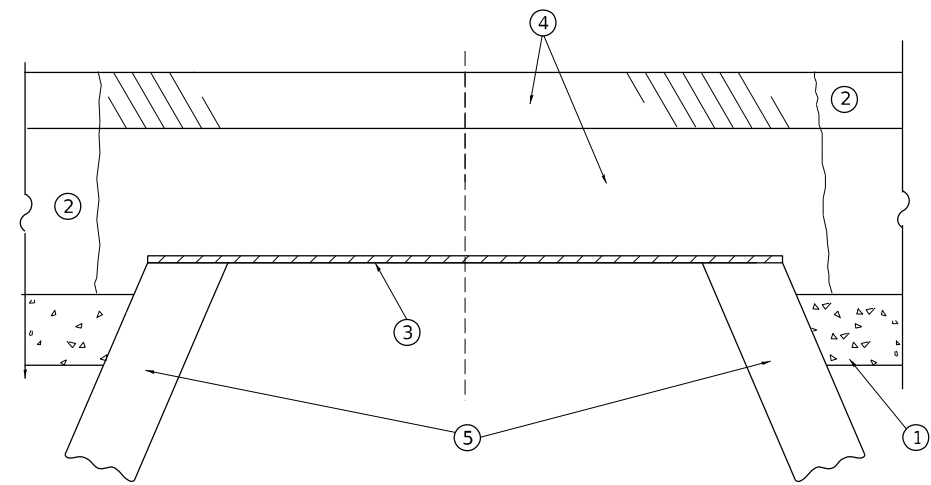
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USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94
	DRAWN -	REVISED - R. SHAH 10-25-94
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. SHAH 06-12-96
PLOT DATE = 11/18/2022	DATE - 07-25-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>			
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	179
<b>BD500-01 (BD-07)</b>			CONTRACT NO. 62L30	
ILLINOIS FED. AID PROJECT				



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

**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

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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.

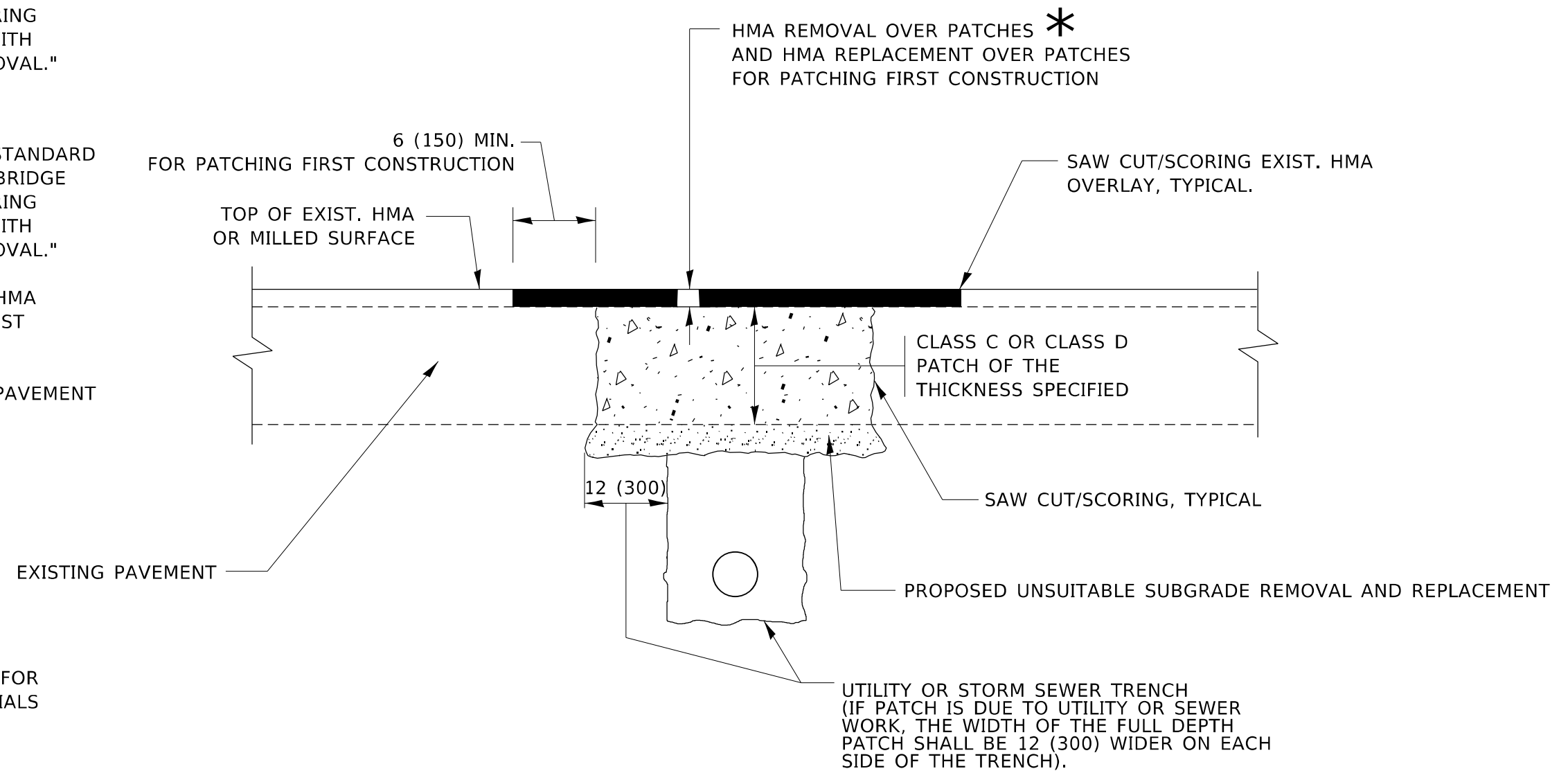
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	180
BD600-03 (BD-08)			CONTRACT NO. 62L30	
ILLINOIS		FED. AID PROJECT		

## 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.

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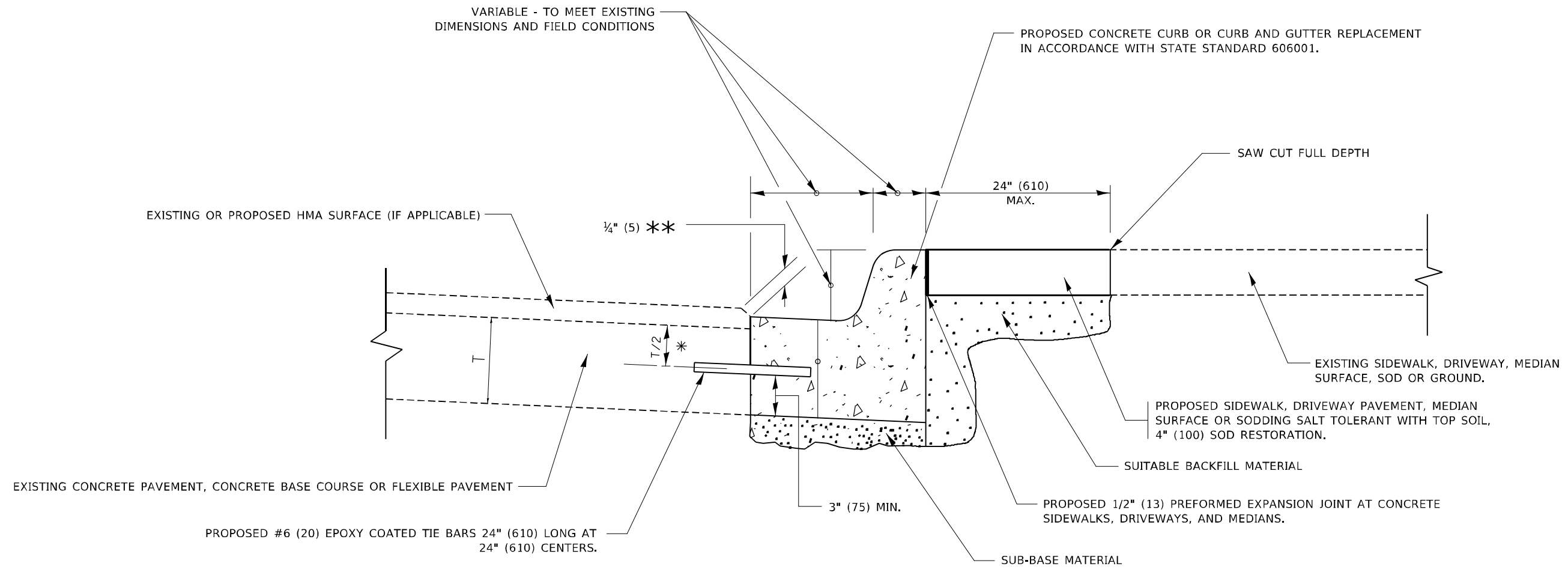
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	DRAWN -	REVISED - R. BORO 09-04-07
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PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

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.

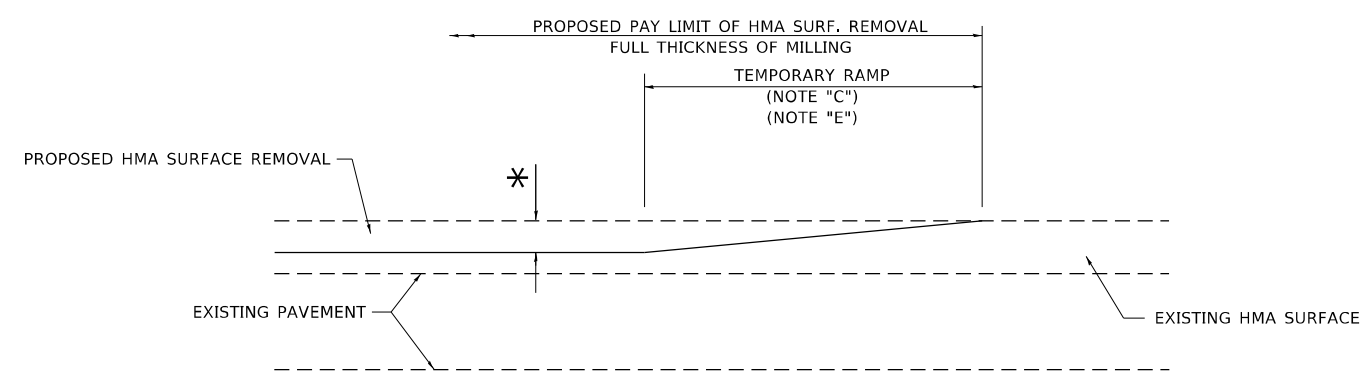
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	DRAWN -	REVISED - M, GOMEZ 01-22-01
PLOT SCALE	CHECKED -	REVISED - R, BORO 12-15-09
PLOT DATE	DATE - 03-11-94	REVISED - K, SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

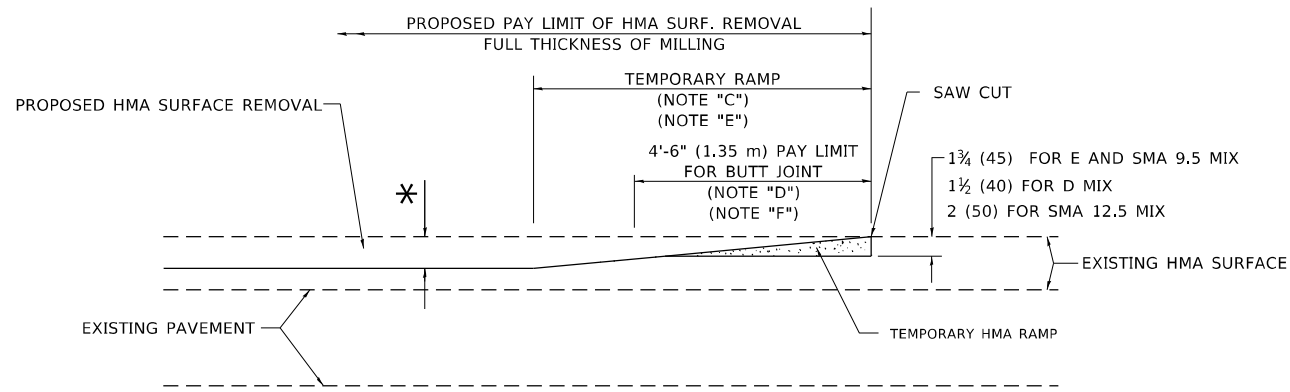
<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

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



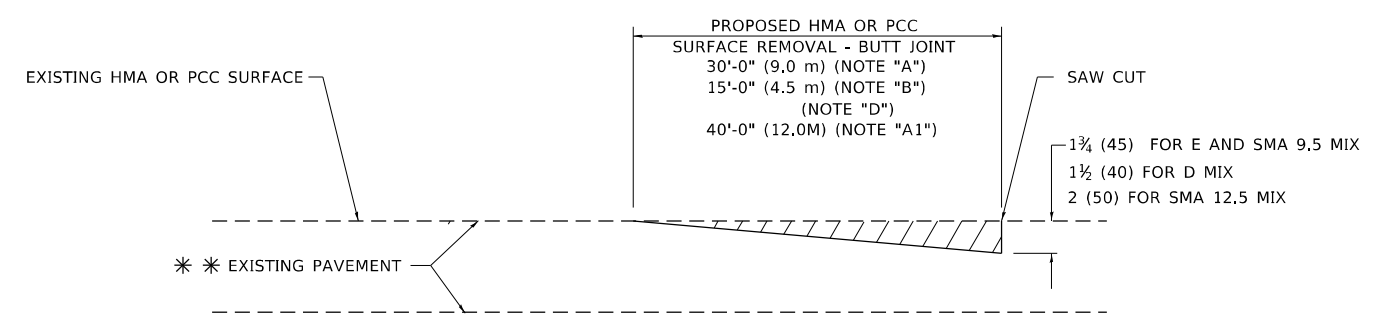
**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

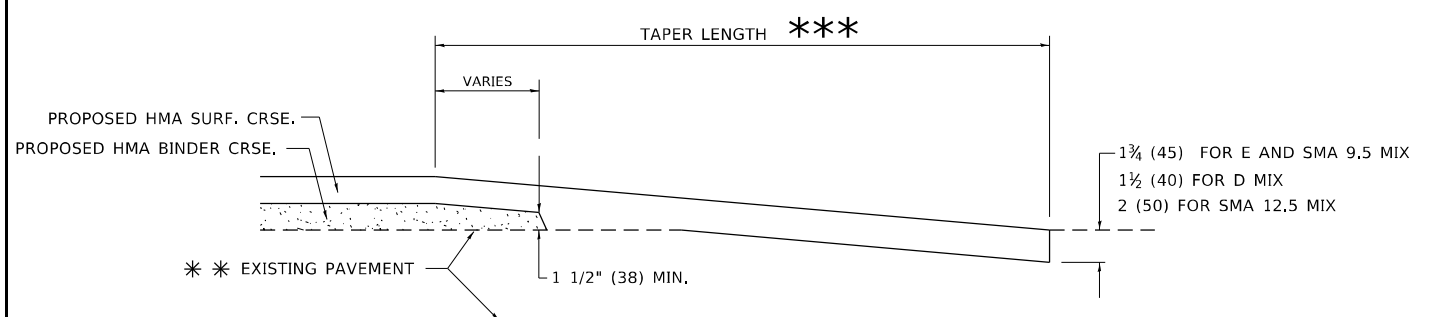


**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

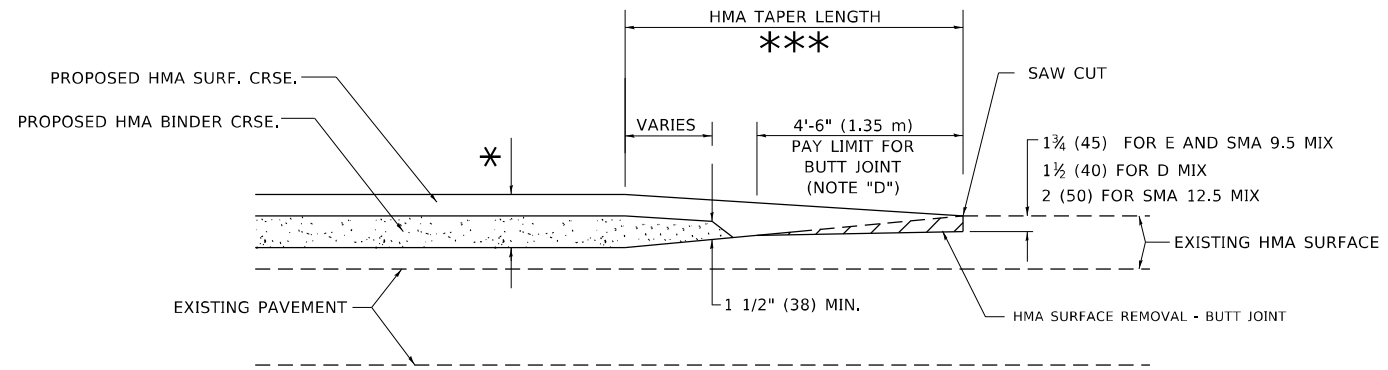
**GENERAL NOTES**

- 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.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

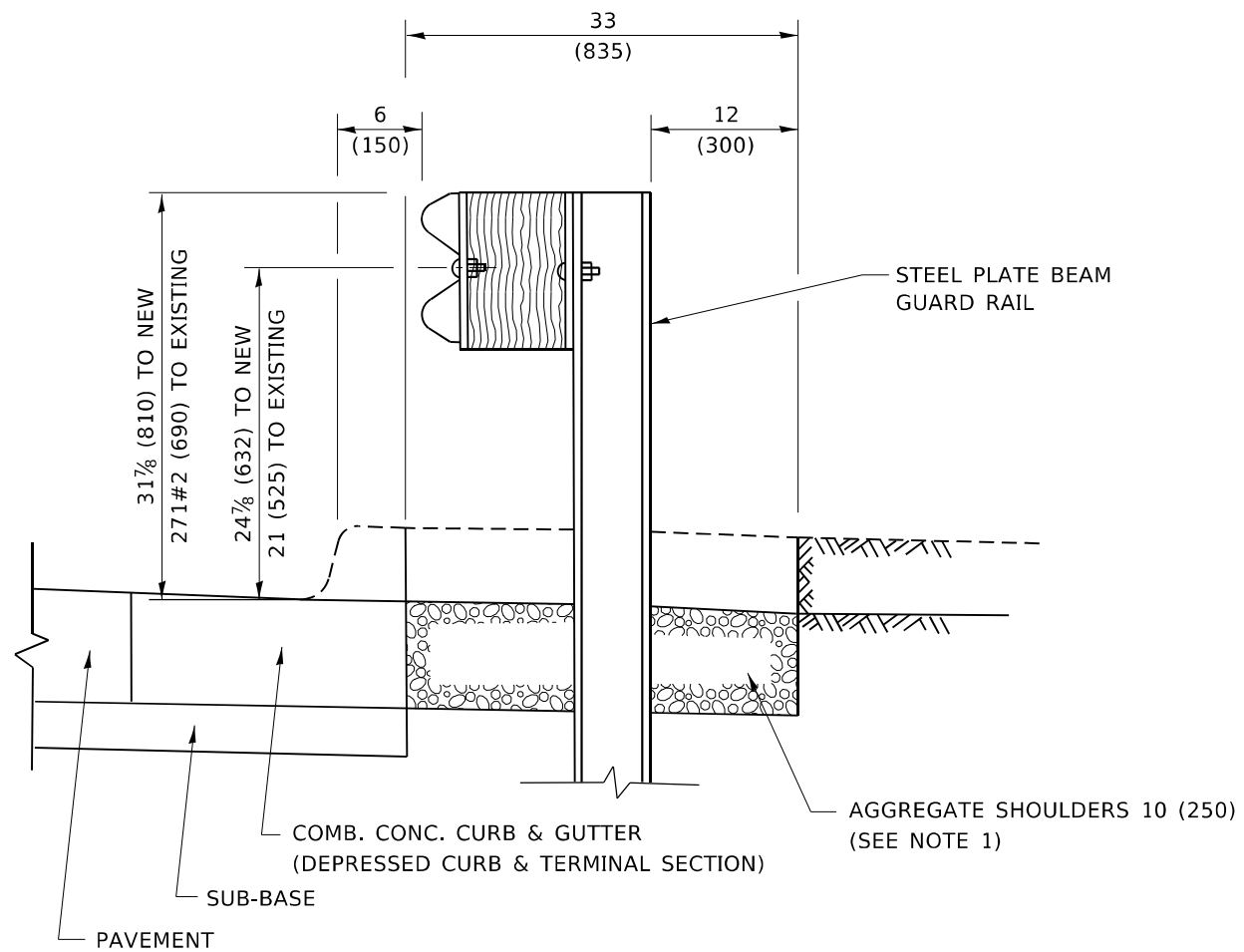
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USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
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
<b>BD400-05 BD-32</b>		CONTRACT NO. 62L30		
ILLINOIS FED. AID PROJECT				

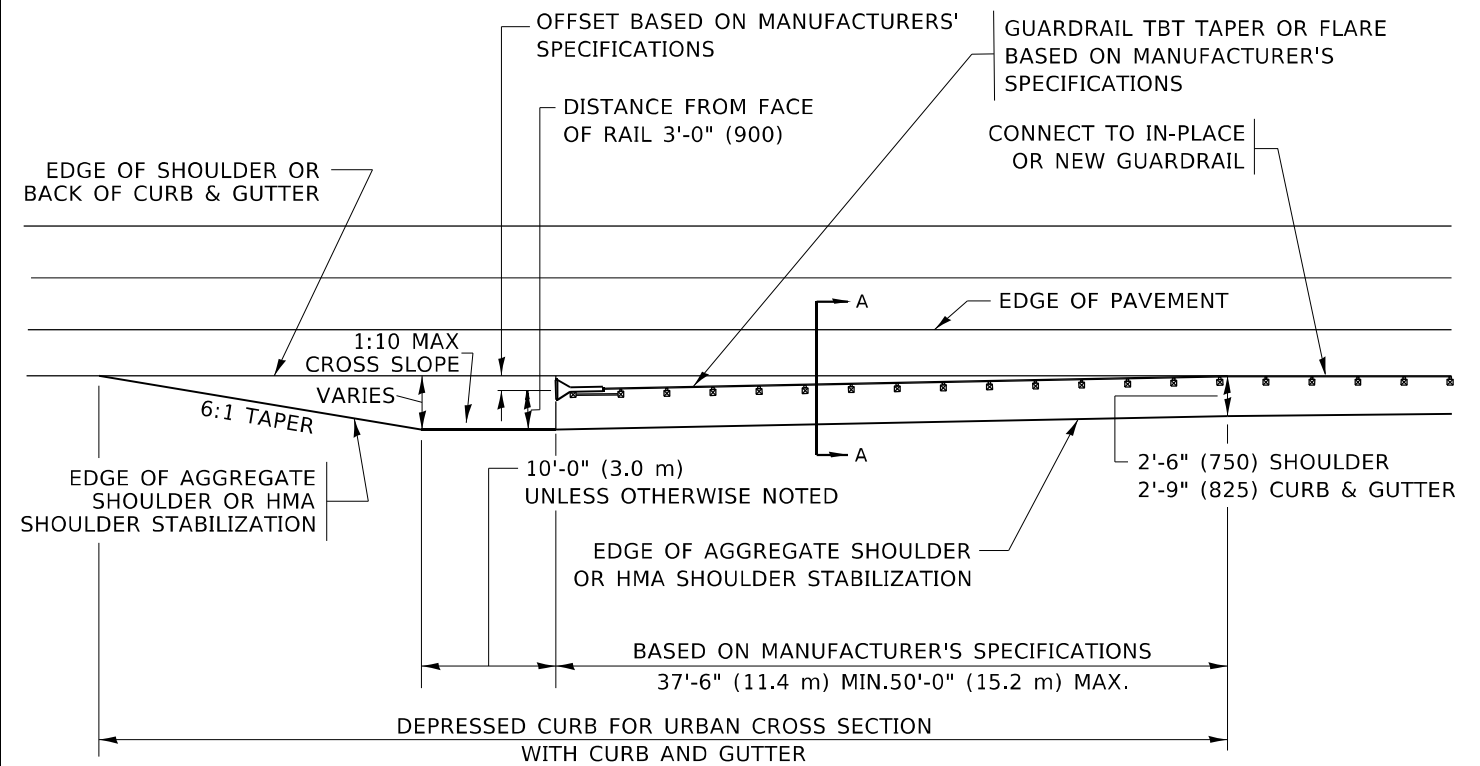


**SECTION A-A**

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 TRANSITION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUARDRAIL.

**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.

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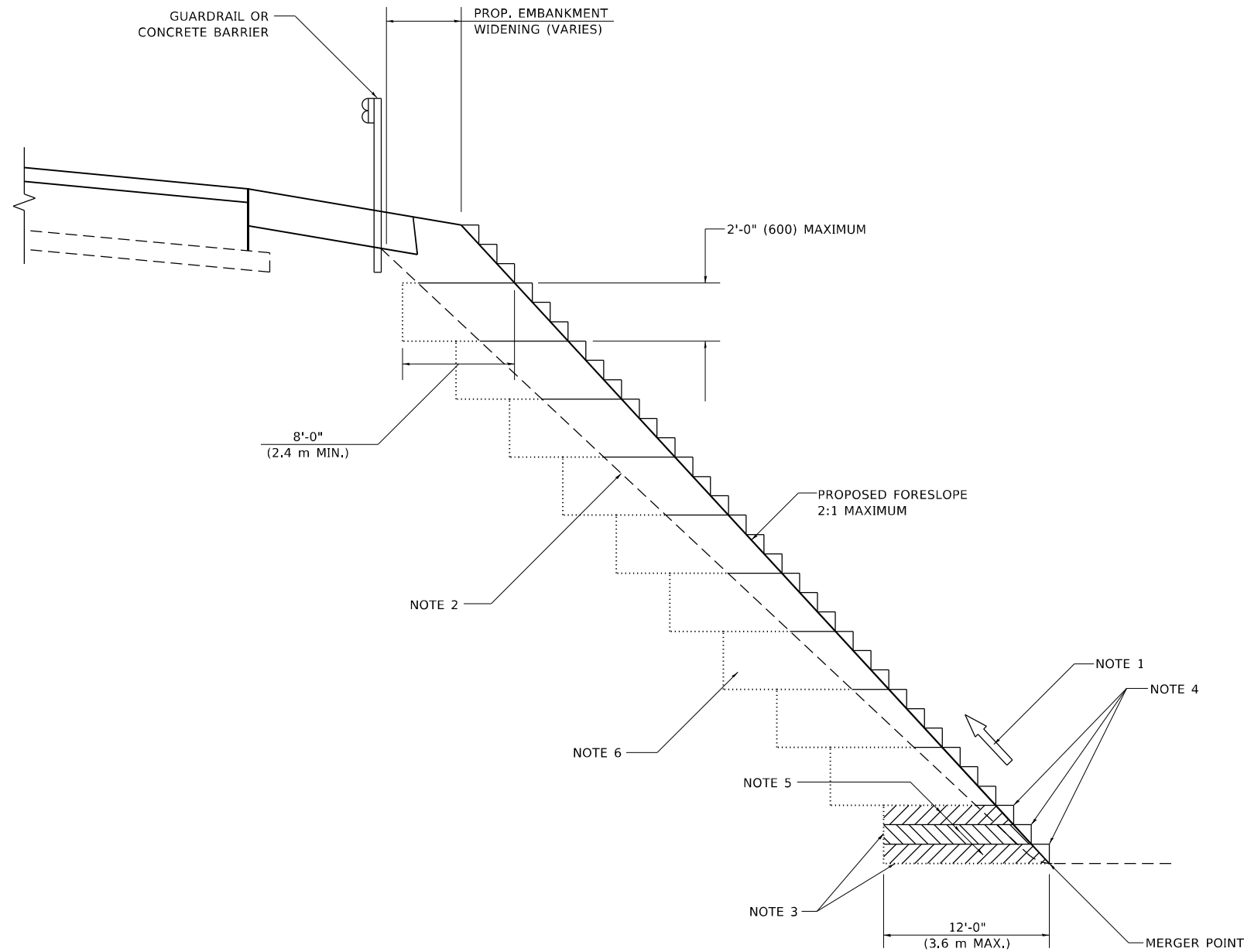
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	DRAWN -	REVISED - R. BORO 08-06-2012
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 05-08-2015
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22

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.

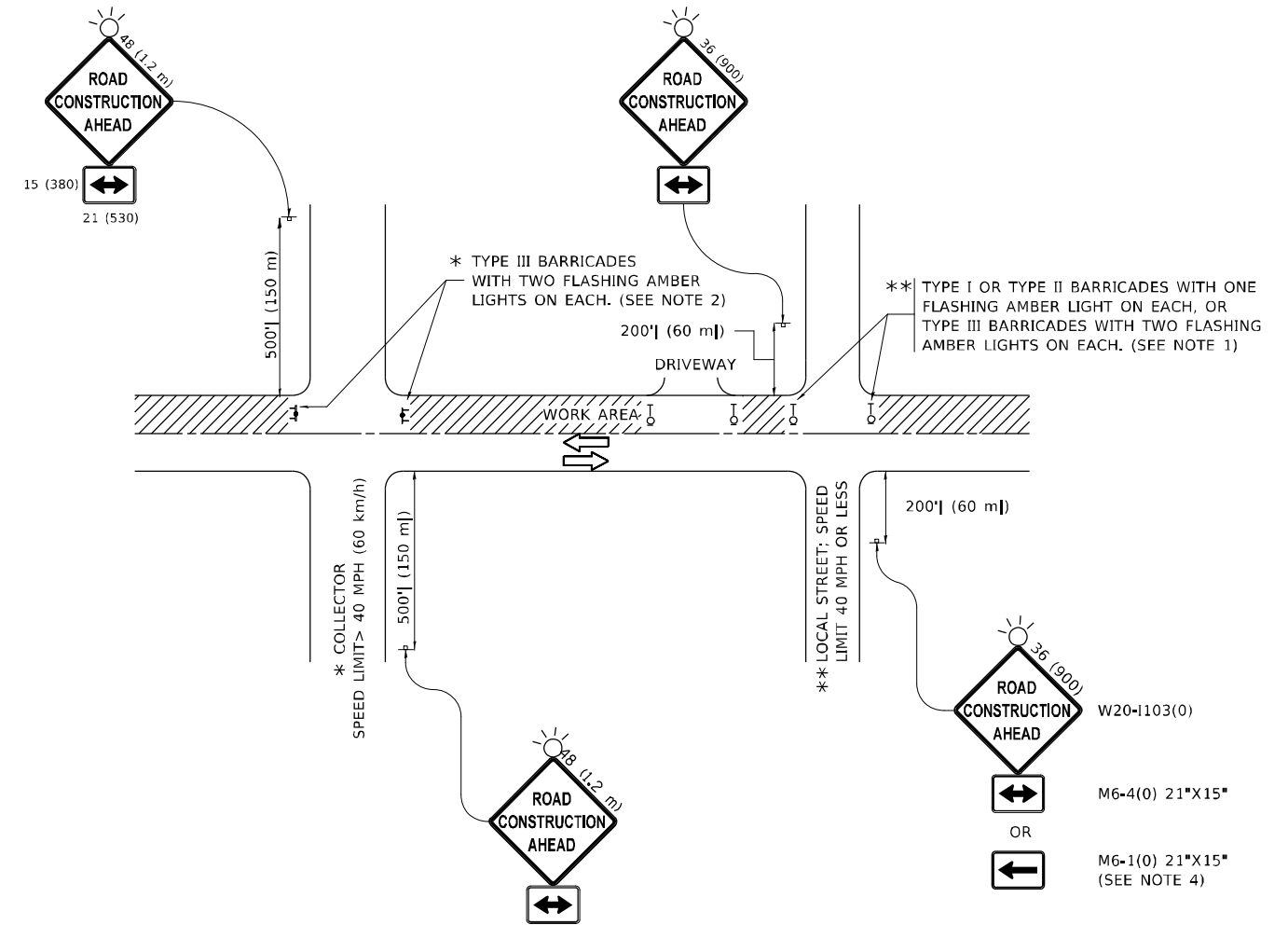
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USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - K. SMITH 11-18-22
	DRAWN - CADD	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - S.E.B.	REVISED -
PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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
<b>BD-51</b>		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) 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. 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.

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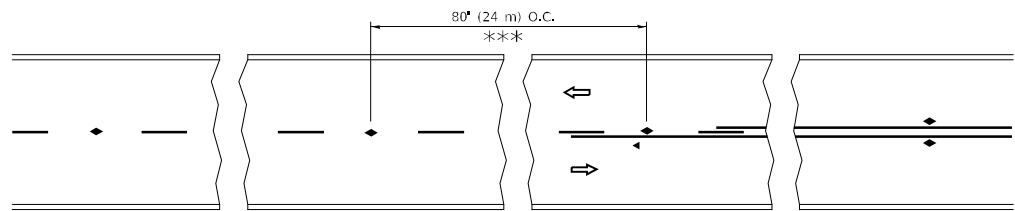
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PLOT DATE	5/3/2024	DATE	06-89	REVISED	D. SENDRAK 05-03-24

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

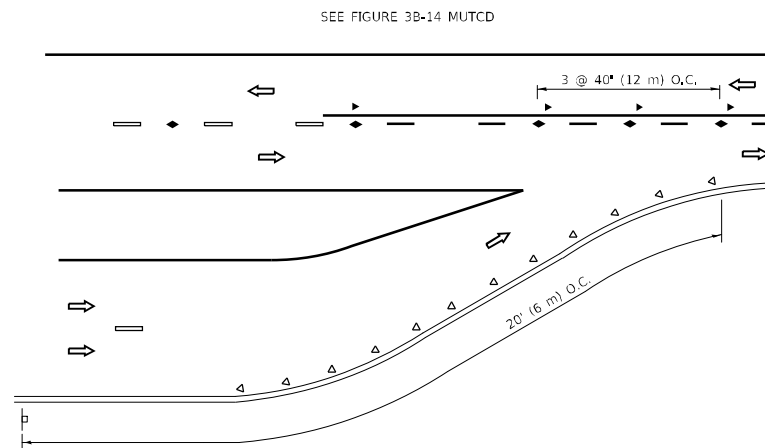
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<b>TC-10</b>		CONTRACT NO. 62L30		
ILLINOIS FED. AID PROJECT				

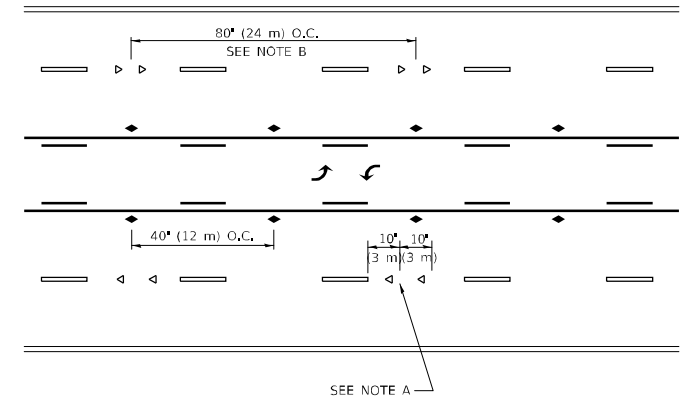


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

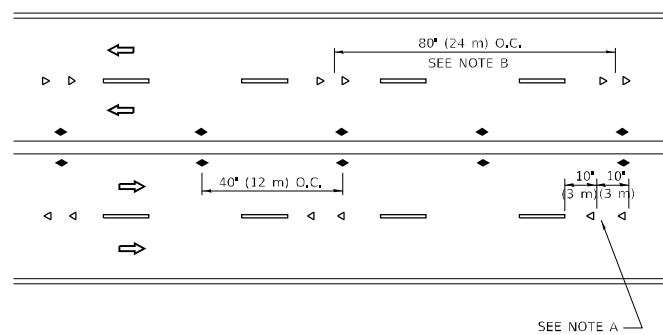
**TWO-LANE/TWO-WAY**



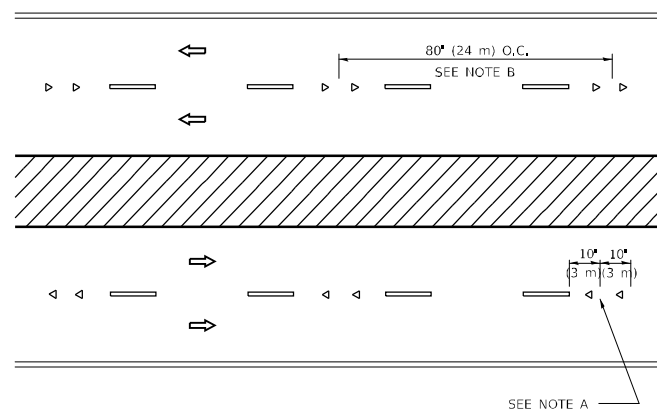
**LANE REDUCTION TRANSITION**



**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**

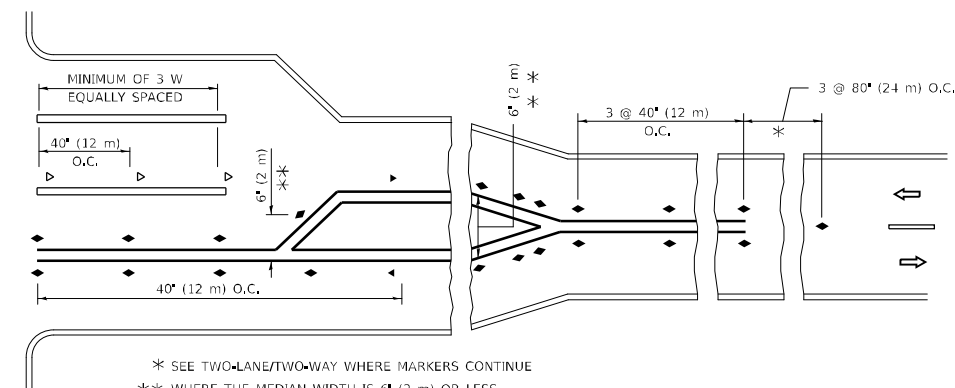
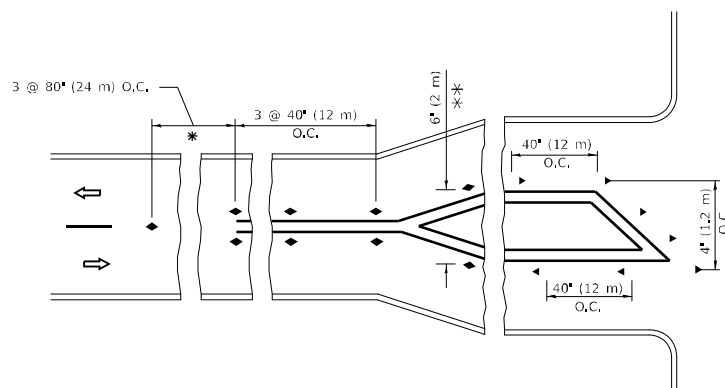
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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**

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

MOBILE: D:\ref\...  
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 PROJECT: I:\Projects\111081\BID\NITEC\...

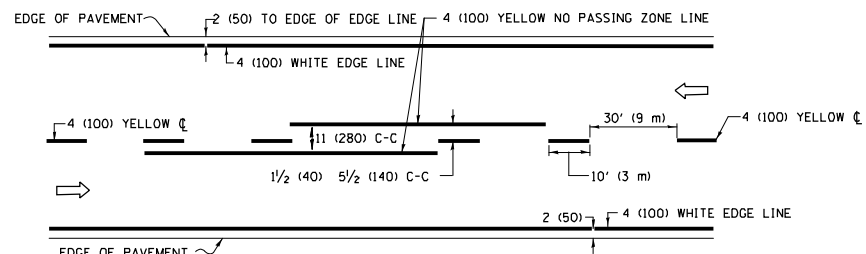
USER NAME	DESIGNED	REVISED
DRAWN	REVISOR	DATE
PLOT SCALE	CHECKED	REVISOR
PLOT DATE	DATE	REVISOR

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

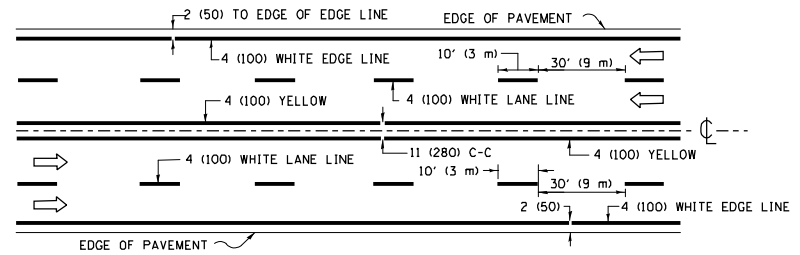
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

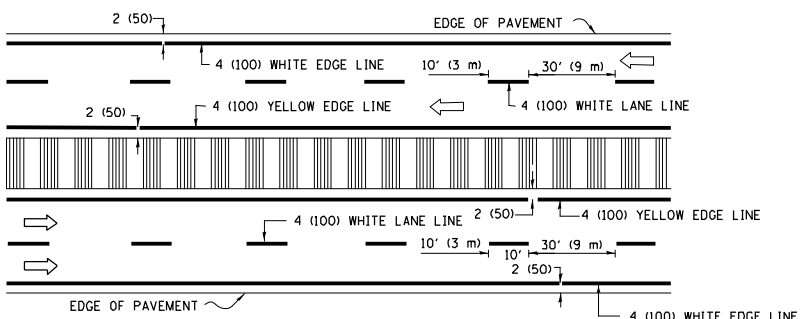
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	187
TC-11			CONTRACT NO. 62L30	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

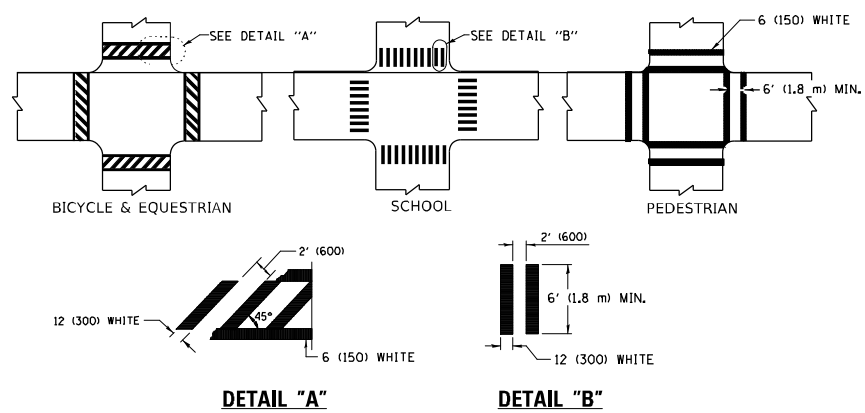


**MULTI-LANE UNDIVIDED**



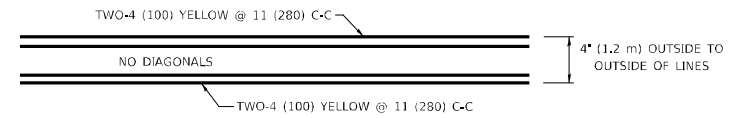
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

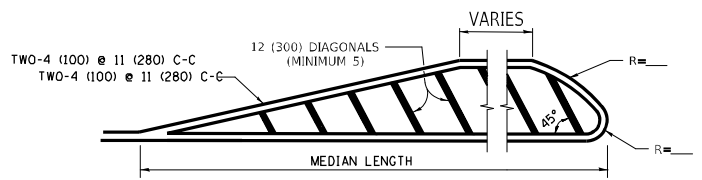


**TYPICAL CROSSWALK MARKING**

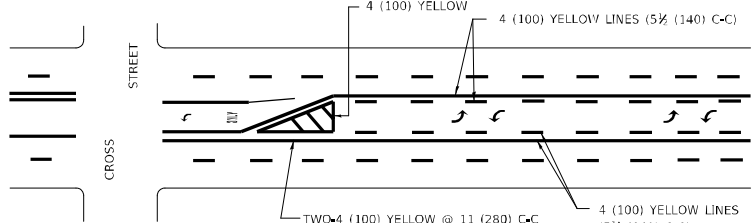
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



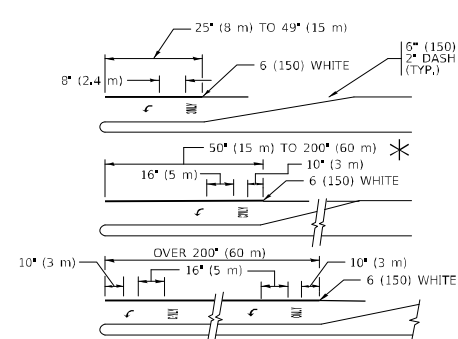
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

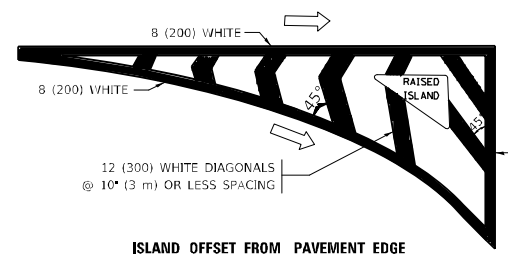


**TYPICAL LEFT (OR RIGHT) TURN LANE**

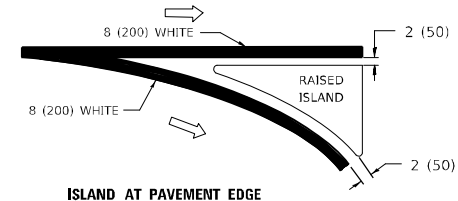
**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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\*

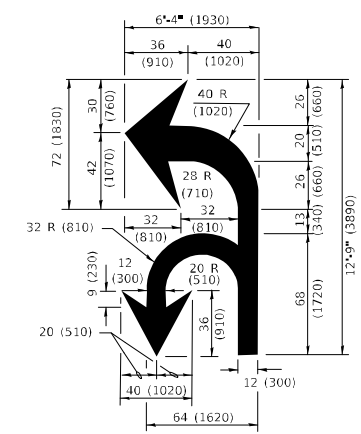


**ISLAND OFFSET FROM PAVEMENT EDGE**

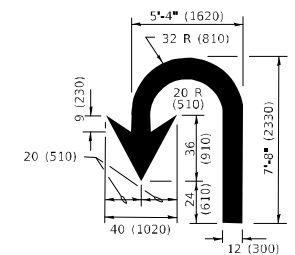


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

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	5 1/2 (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" (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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 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* AREA OF: *R* = 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X* = 54.0 SQ. FT. (5.0 m <sup>2</sup> )	SOLID	WHITE	SEE STATE STANDARD 780001
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.

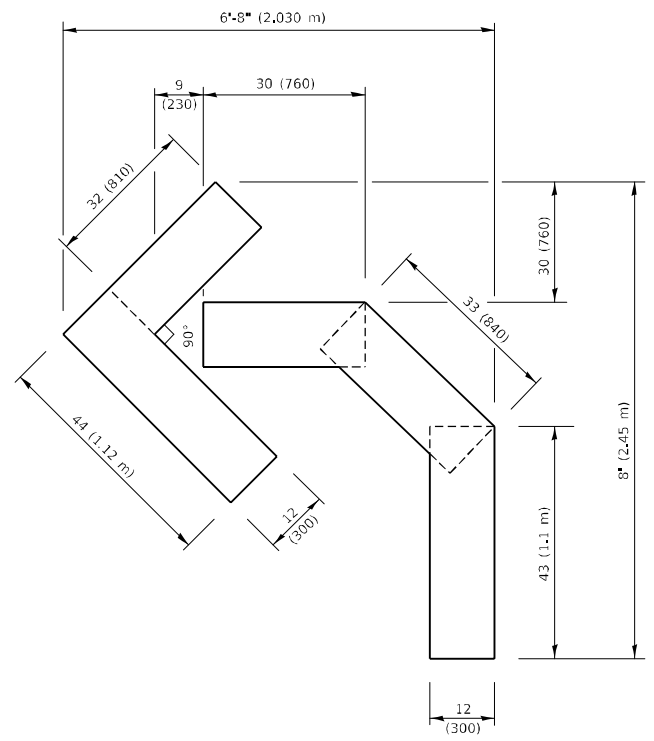
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USER NAME	DESIGNED	REVISED
DRAWN	REVISED	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DATE	REVISED

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

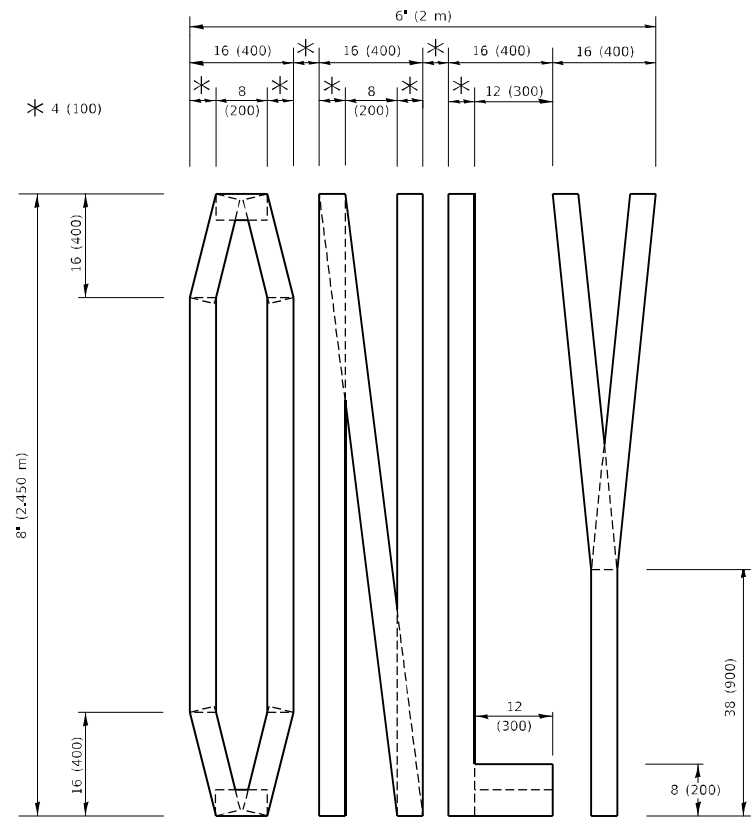
<b>DISTRICT ONE</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	188
<b>TC-13</b>		CONTRACT NO. 62L30		
ILLINOIS FED. AID PROJECT				



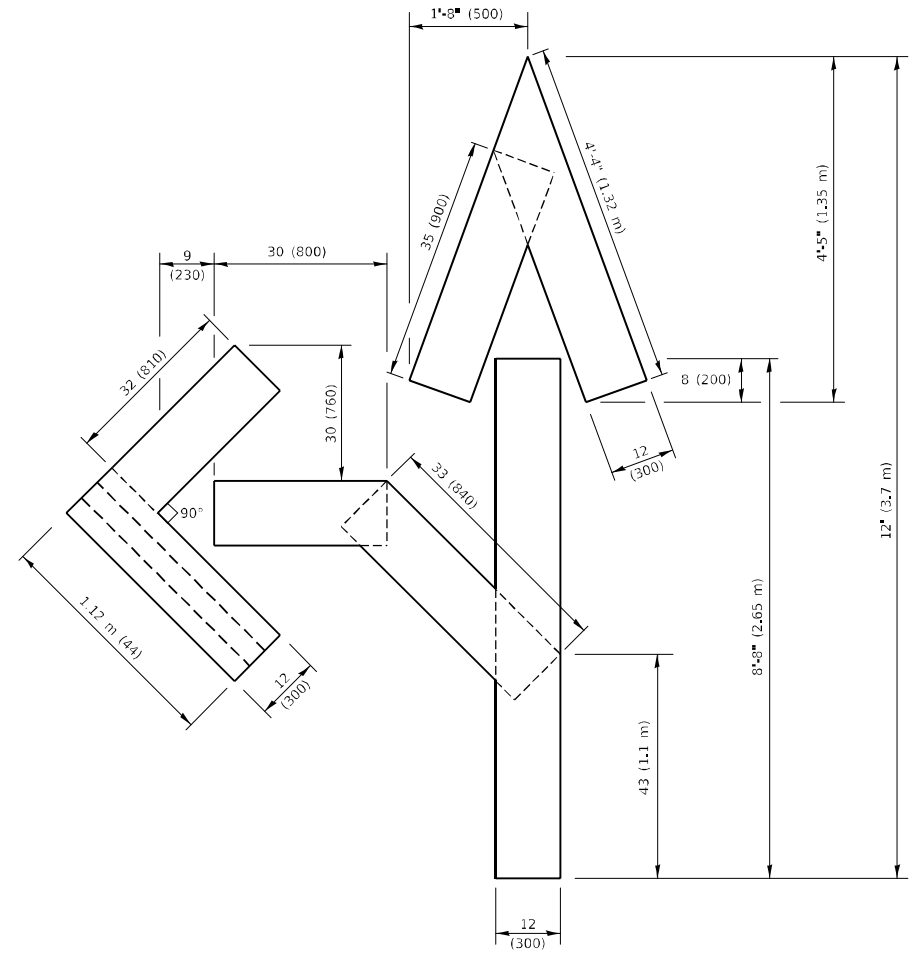
**QUANTITY**

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)

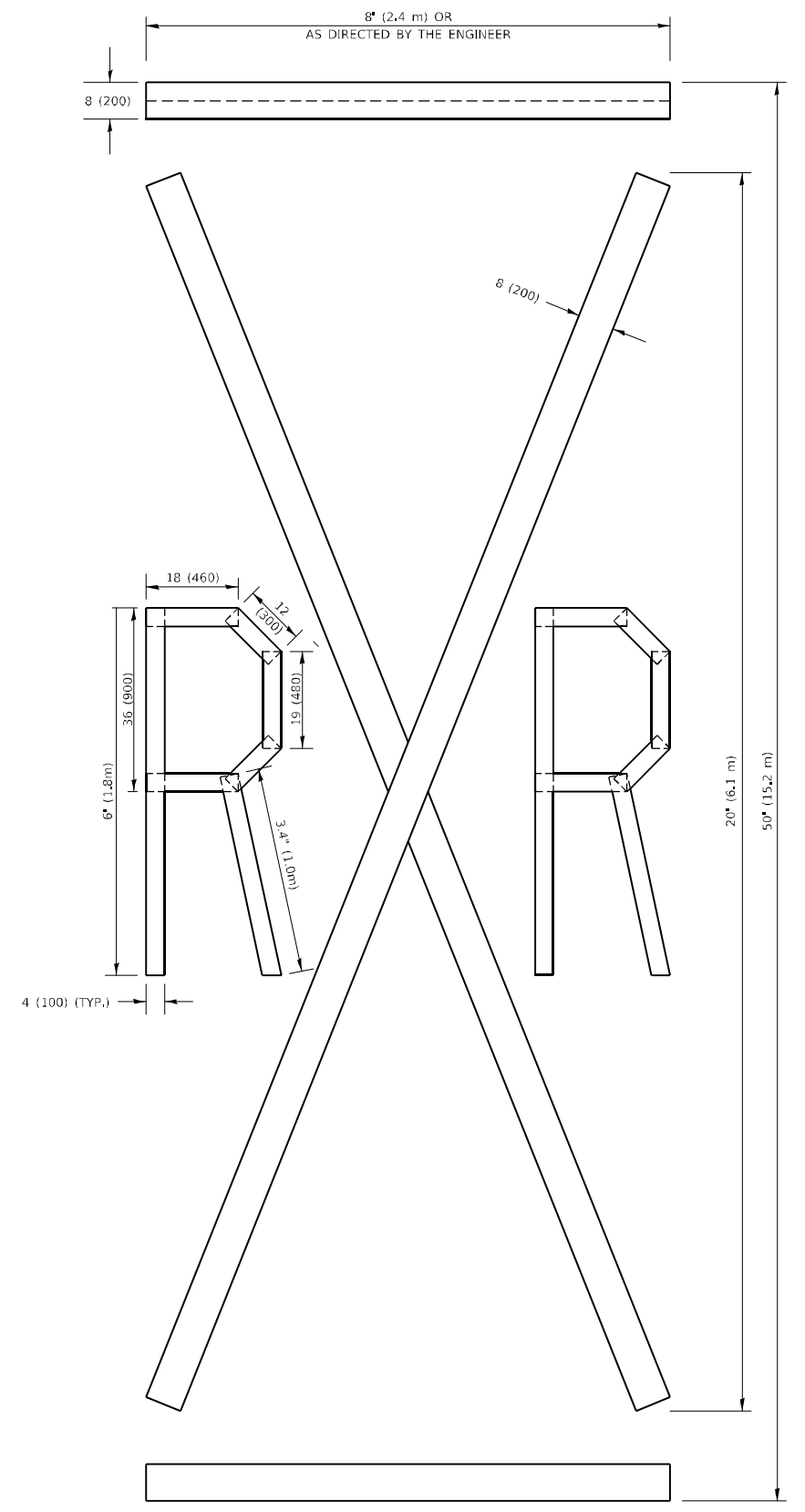


**QUANTITY**

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.

MODEL: D:\m\l... FILE: \m\l... PROJECT: ...

USER NAME	DESIGNED	REVISED
DRAWN	CHECKED	REVISED
PLOT SCALE	DATE	REVISED
PLOT DATE		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

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

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

**MAIN STREET**  
R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

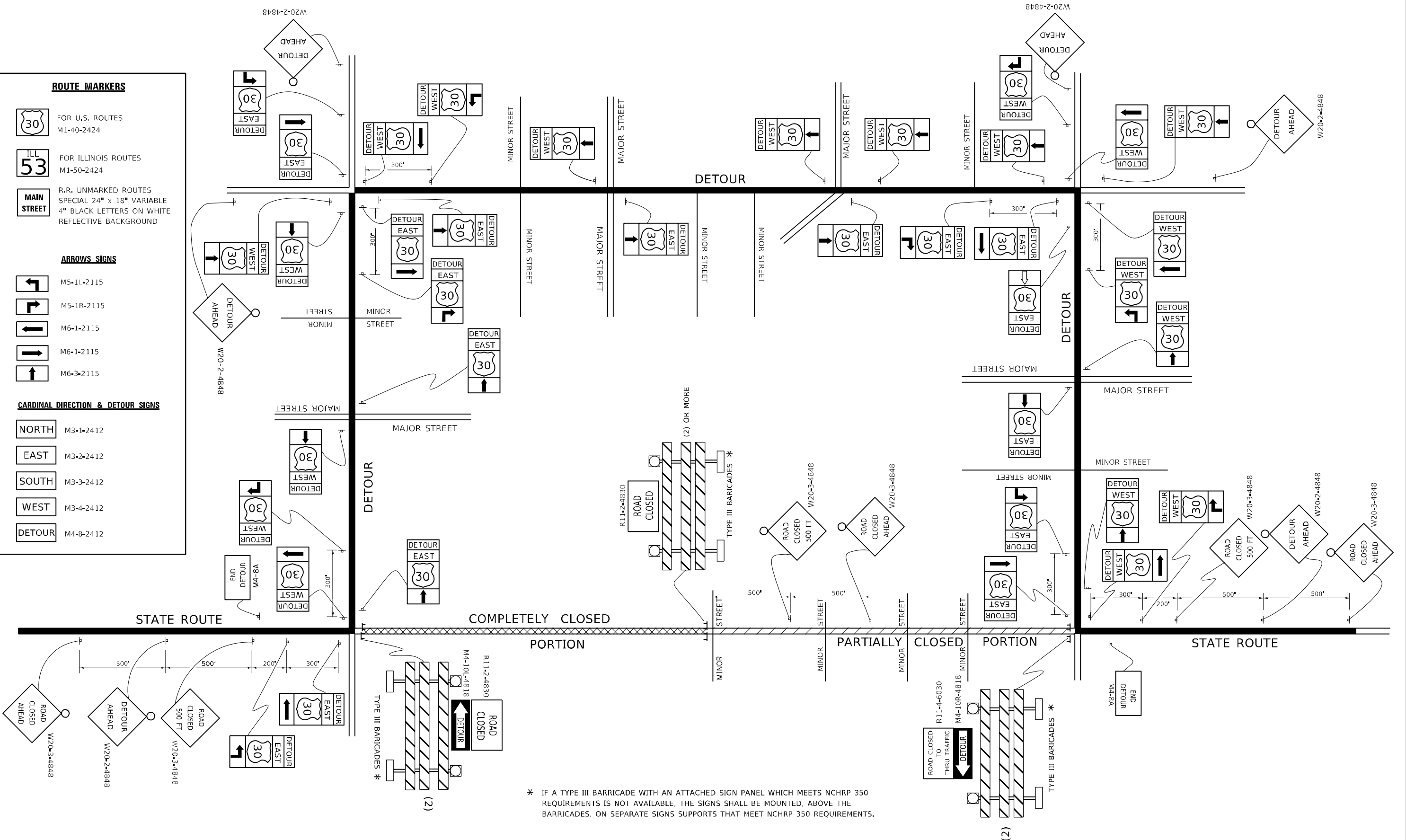
**NORTH** M3-1-2412

**EAST** M3-2-2412

**SOUTH** M3-3-2412

**WEST** M3-4-2412

**DETOUR** M4-8-2412



\* 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.

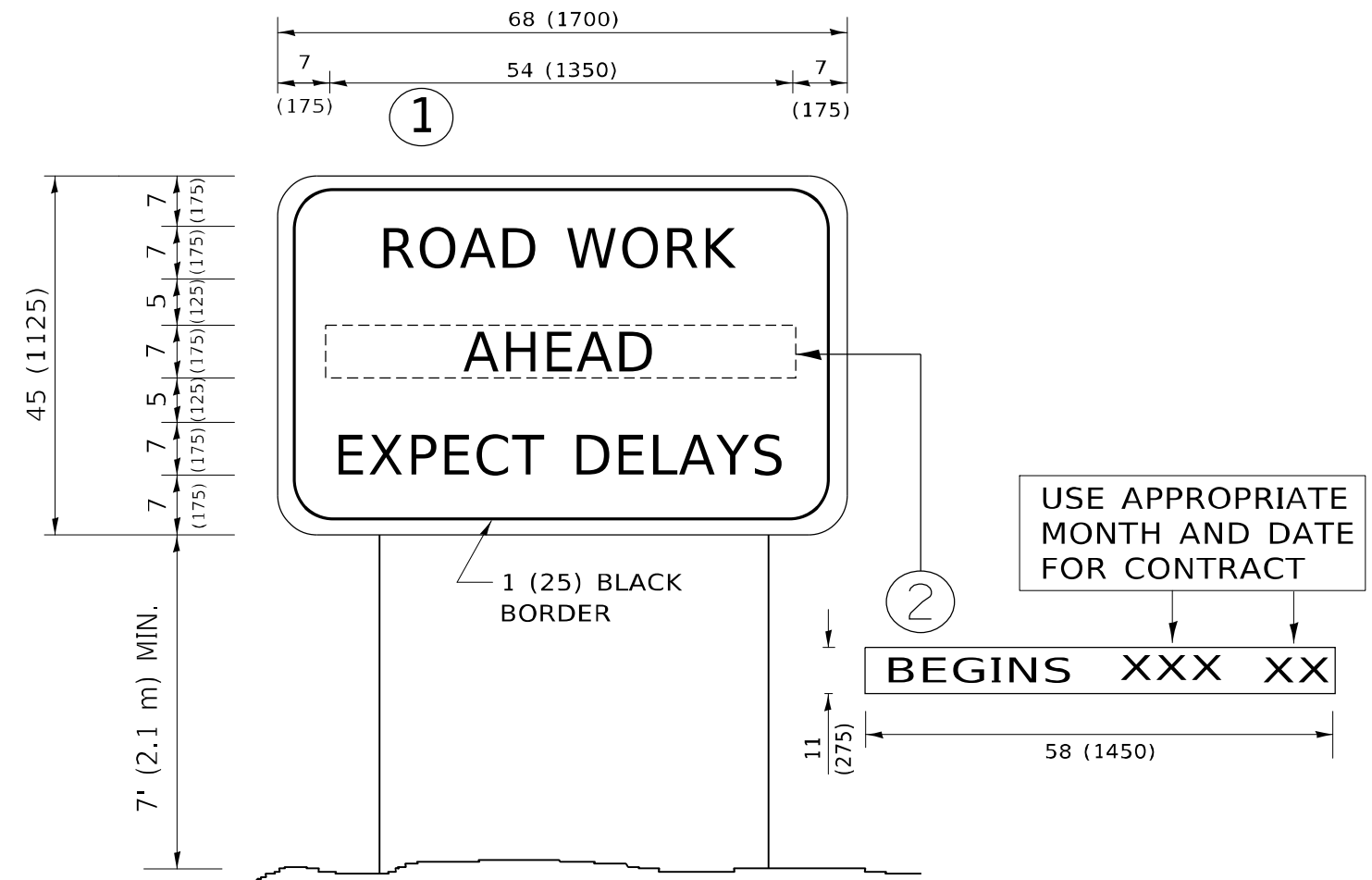
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DRAWN	-	CHECKED	-	REVISED	- R. BORO 09-14-09
PLOT SCALE	50,0000' / in.	DATE	-	REVISED	-
PLOT DATE	3/4/2019				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>			
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
<b>TC-21</b>		CONTRACT NO. 62L30		
ILLINOIS FED. AID PROJECT				



**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.

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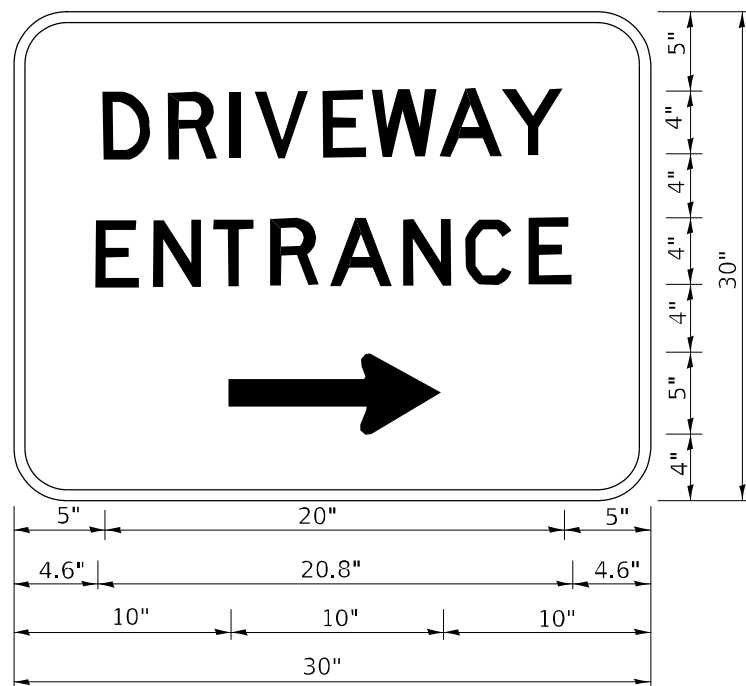
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PLOT SCALE	50,0000 * / in.	CHECKED	-	REVISED	- T, RAMMACHER 02-02-99
PLOT DATE	3/4/2019	DATE	-	REVISED	- C, JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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
<b>TC-22</b>			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".

N:\FILE - Defranco\Projects\2020\2020-142-C&DR\Documents\DOT\_Office\Sheet1.dwg  
 FILE NAME: Project\2020\2020-142-C&DR\Documents\DOT\_Office\Sheet1.dwg

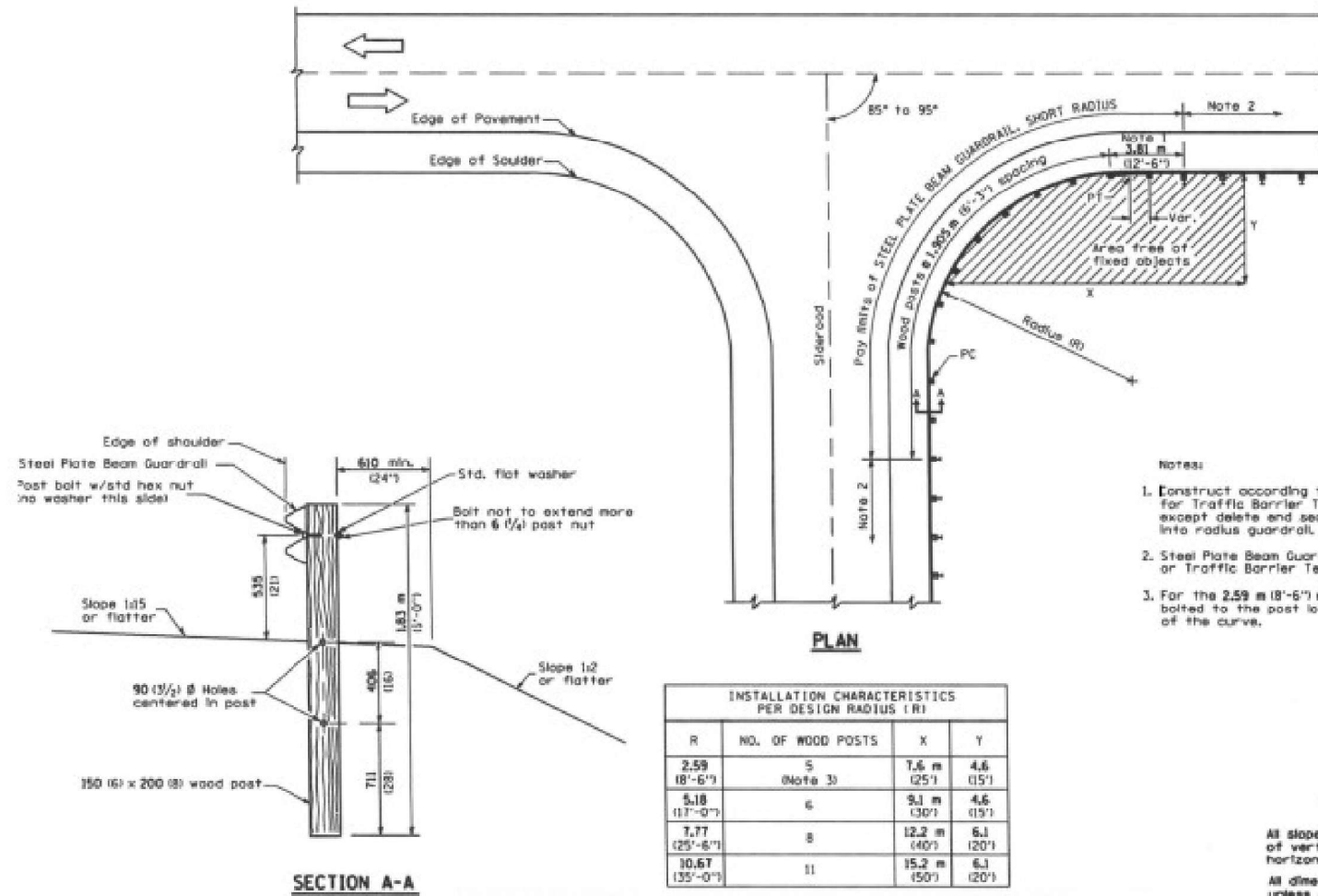
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		DRAWN	-	REVISED	-	
PLOT SCALE	■ 50,0000 * / in.	CHECKED	-	REVISED	-	
PLOT DATE	■ 8/6/2021	DATE	-	REVISED	-	

**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
<b>TC-26</b>			CONTRACT NO. 62L30	
ILLINOIS   FED. AID PROJECT				



- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete and 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.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (Note 3)	1.6 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')

**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.

**STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS**

MODEL: Default  
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 PLOT: AutoPlot  
 PLOTSCALE: 1/24000  
 PLOTDATE: 1/26/2026  
 USER: user201  
 DESIGNED: MY  
 DRAWN: MY  
 CHECKED: SJP  
 DATE: 06/20/2025

**M**  
 10 S LaSalle St., #250,  
 Chicago, IL 60603  
**M**  
 NOTT  
 MACDONALD

USER NAME = iso-user201	DESIGNED - MY	REVISED -
PLOT SCALE = 24,0000 * / ft.	DRAWN - MY	REVISED -
PLOT DATE = 1/26/2026	CHECKED - SJP	REVISED -
	DATE - 06/20/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAIN STREET FROM WHEELER DRIVE TO IL 83**  
**MISCELLANEOUS DETAILS**

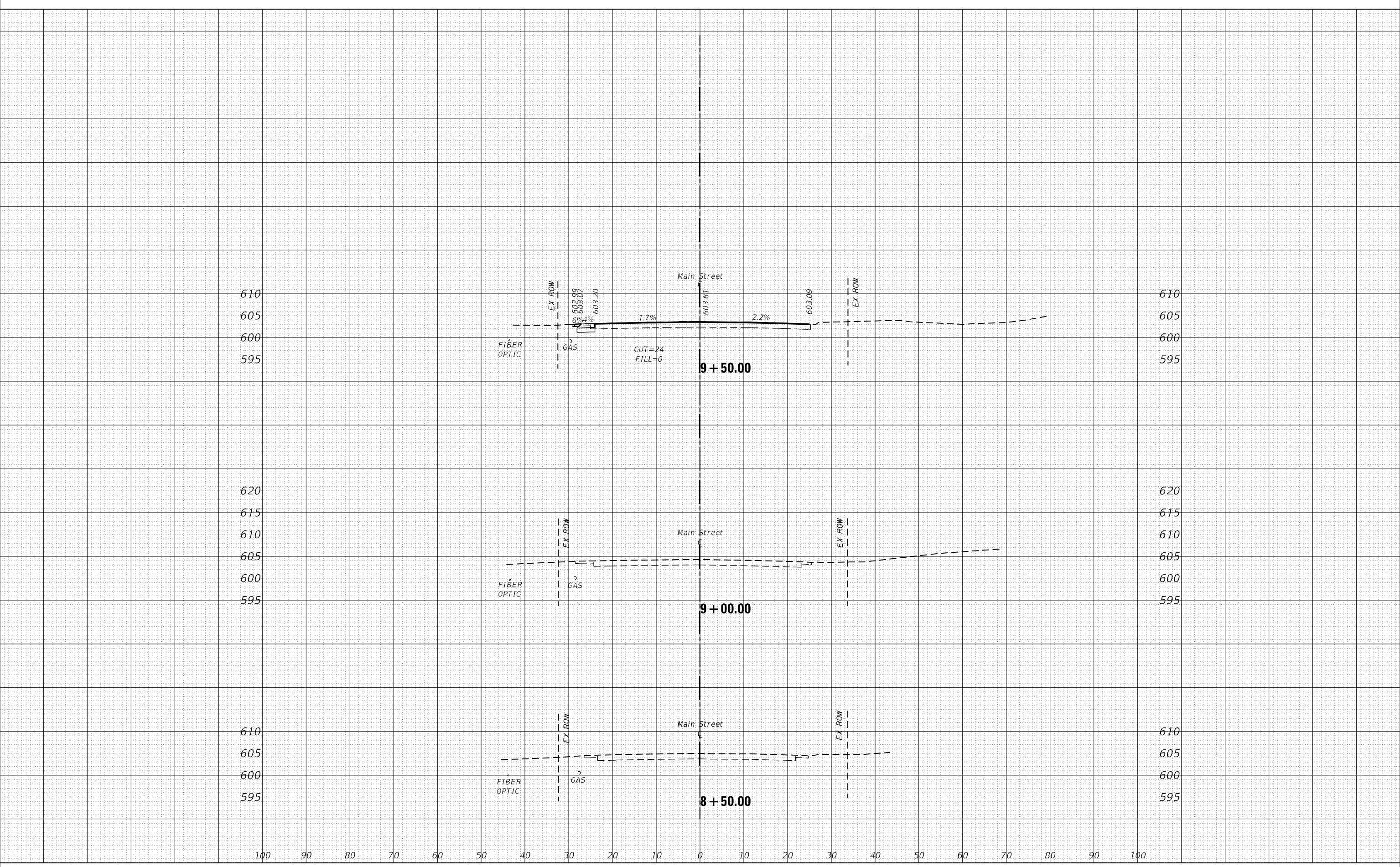
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	193
			CONTRACT NO. 62L30	
ILLINOIS FED. AID PROJECT				

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

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

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**M**  
 MOTT  
 MACDONALD

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

USER NAME = lsc-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**

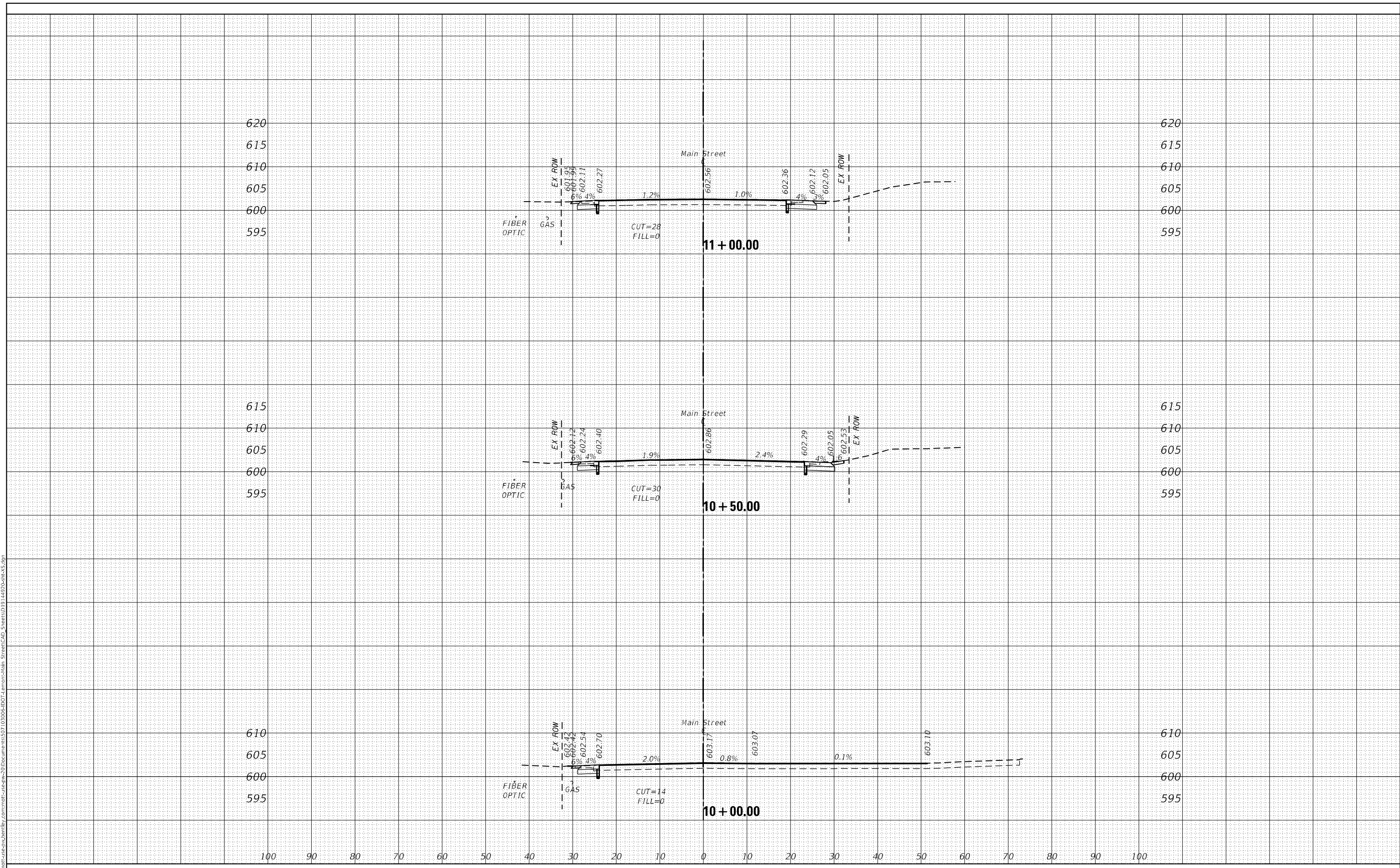
SCALE: 1"=10'    SHEET CS-01 OF CS-106 SHEETS    STA. 8+50.00    TO STA. 9+59.50

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				

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

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

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

USER NAME	= lsc-user/201
PLOT SCALE	= 240,0000 ' / ft.
PLOT DATE	= 1/26/2026

DESIGNED	- SJP
DRAWN	- SJP
CHECKED	- KWB
DATE	- 04/30/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

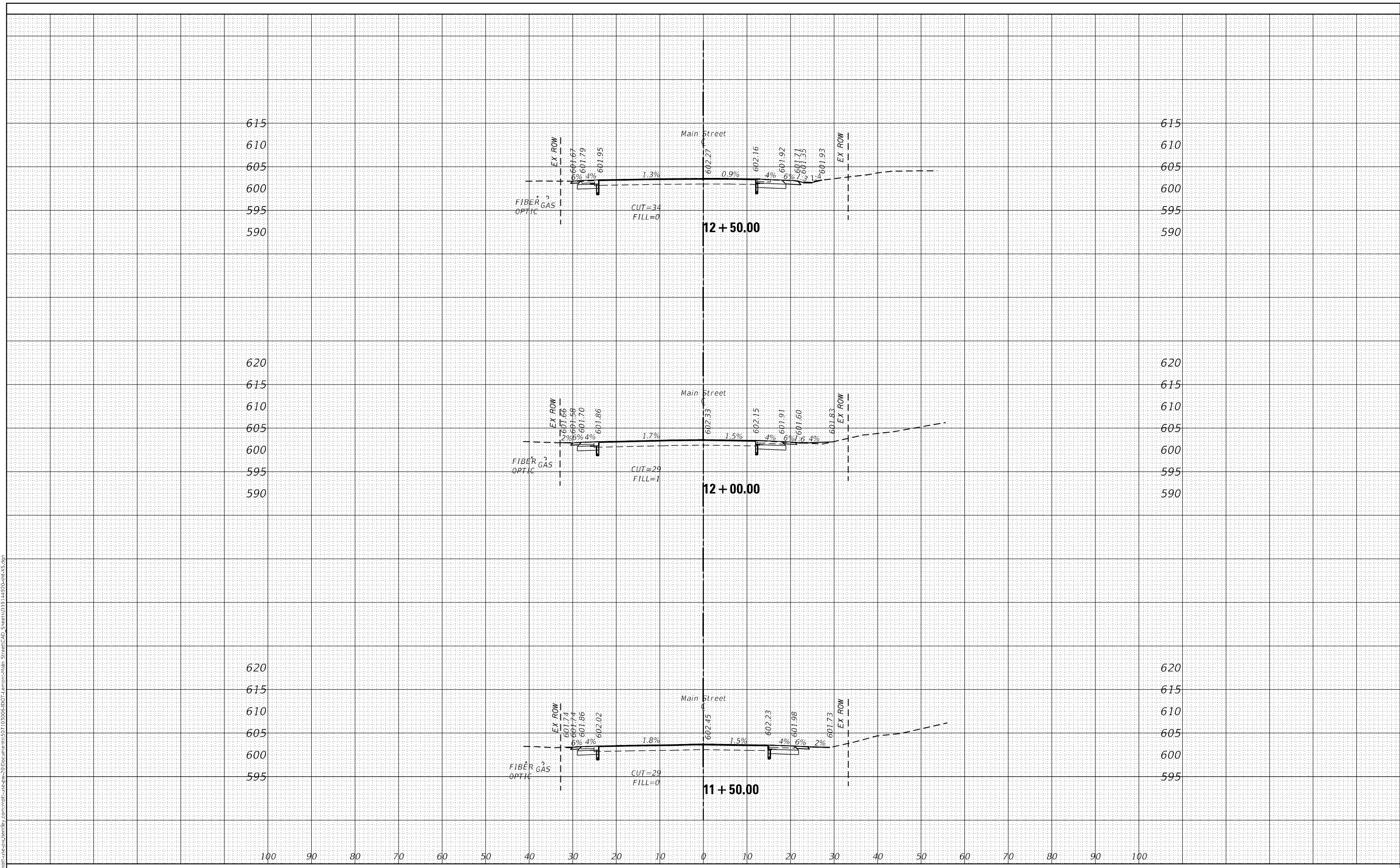
**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 CROSS SECTIONS**  
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	195
				CONTRACT NO. 62L30
ILLINOIS FED. AID PROJECT				

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

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

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

USER NAME = lsc-user201	DESIGNED - SJP	REVISIED -
PLOT SCALE = 240,0000 ' / ft.	DRAWN - SJP	REVISIED -
PLOT DATE = 1/26/2026	CHECKED - KWB	REVISIED -
	DATE - 04/30/2024	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

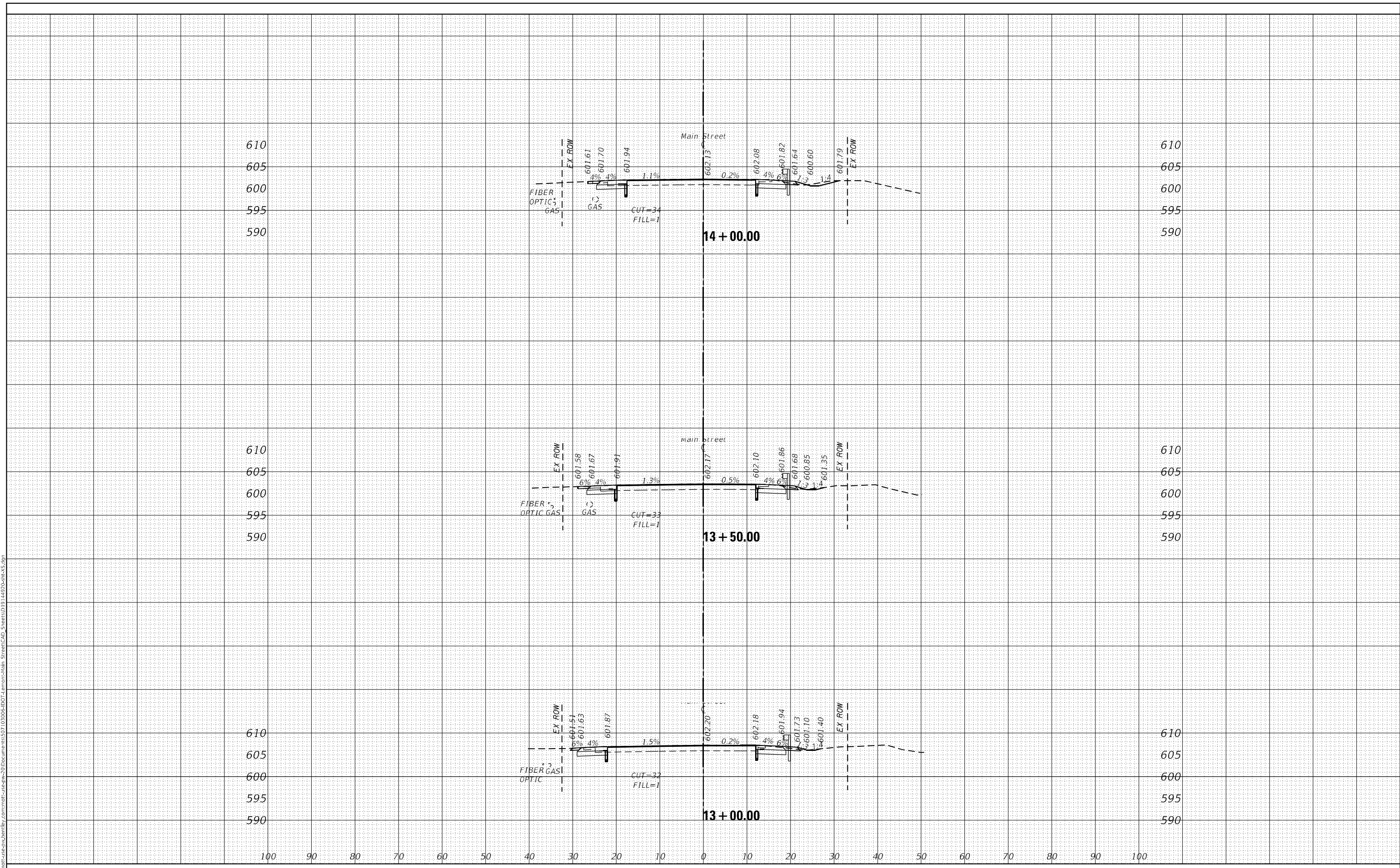
**MAIN STREET FROM WHEELER DRIVE TO IL 83  
 CROSS SECTIONS**  
 SCALE: 1"=10' SHEET CS-03 OF CS-106 SHEETS STA. 11+50.00 TO STA. 12+50.00

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 NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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

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**M**  
 MOTT  
 MACDONALD

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

USER NAME = lsc-user/201	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**

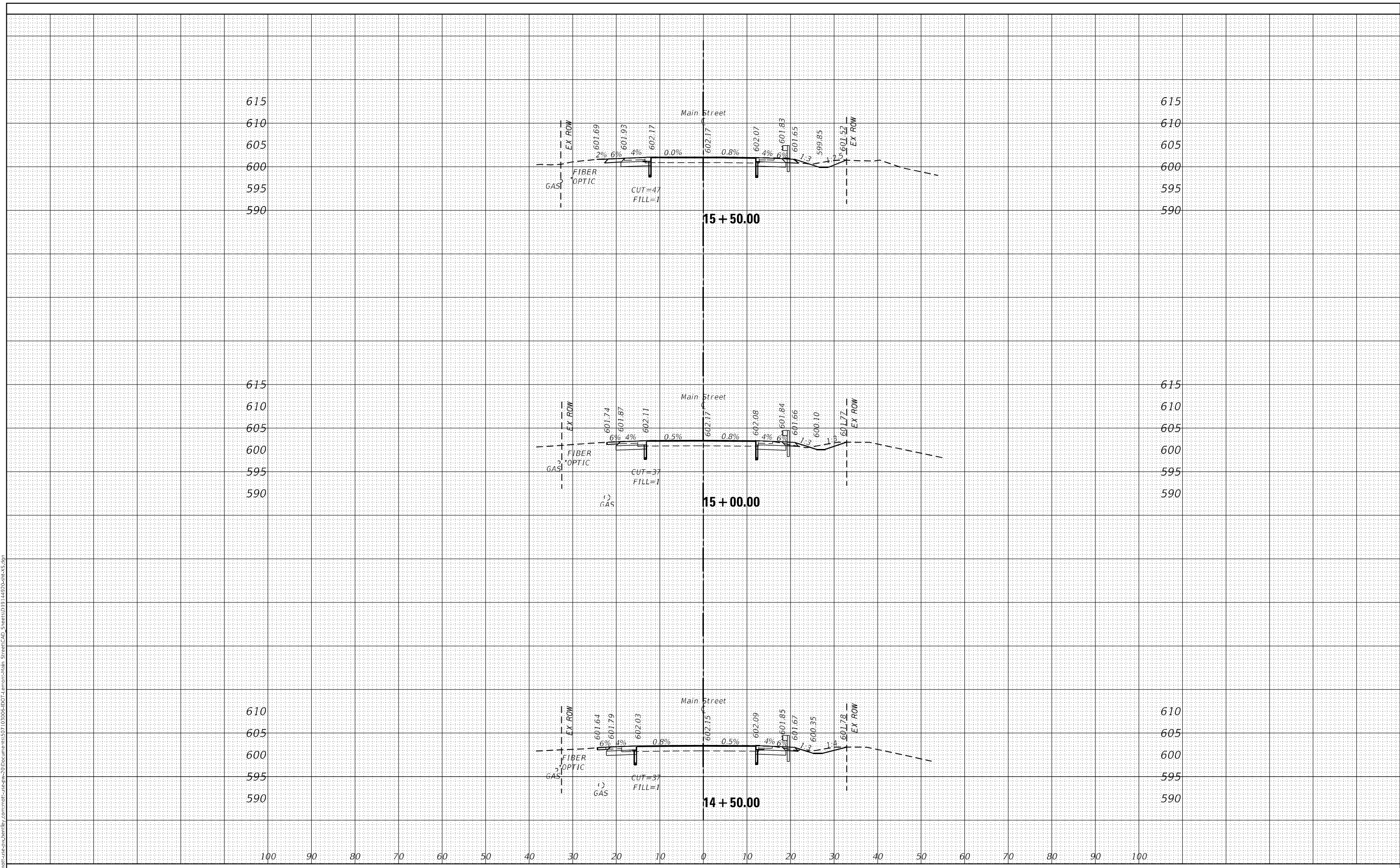
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3587	2020-142-C&DR	COOK	316	197
				CONTRACT NO. 62L30
				ILLINOIS FED. AID PROJECT

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

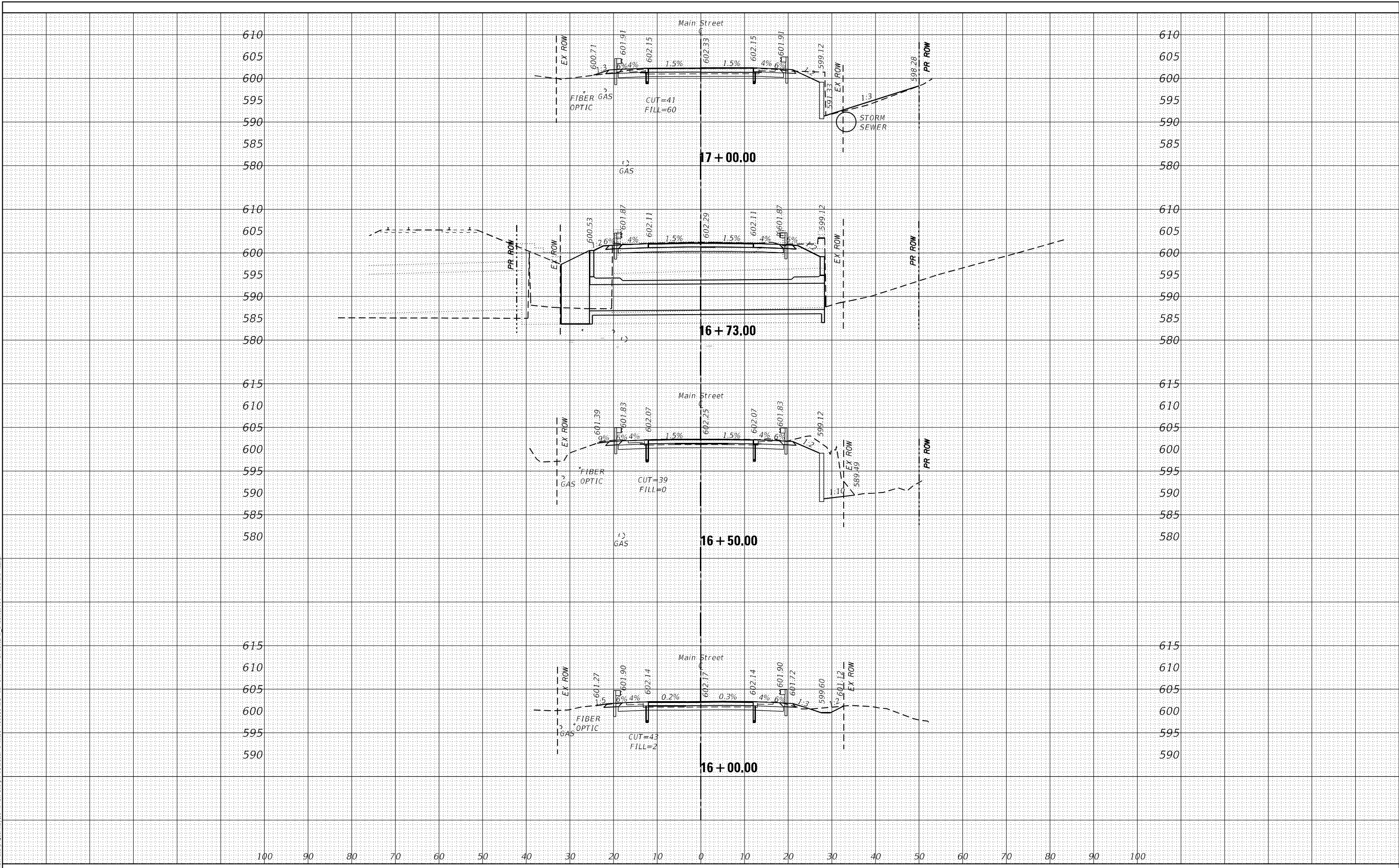
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FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

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

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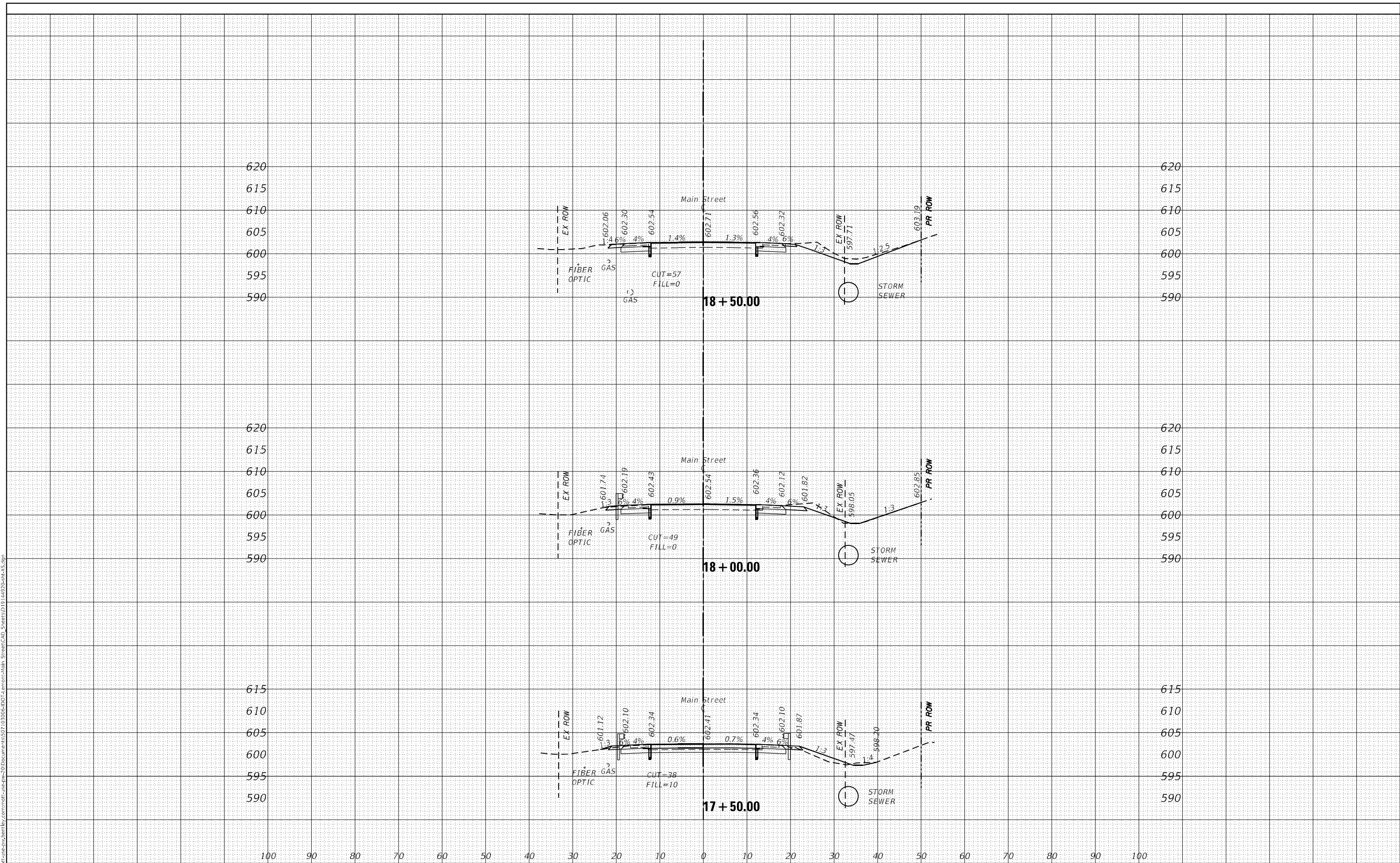


<b>M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201	DESIGNED - SJP DRAWN - SJP	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>CROSS SECTIONS</b>		F.A.U. RTE. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 199
	PLOT SCALE = 240,0000' / ft.	CHECKED - KWB DATE - 04/30/2024	SCALE: 1"=10' SHEET CS-06 OF CS-106 SHEETS STA. 16+00.00 TO STA. 17+00.00	CONTRACT NO. 62L30 ILLINOIS FED. AID PROJECT								
	PLOT DATE = 1/26/2026											

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

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

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<b>M M</b> MOTT MACDONALD	10 S LaSalle St., #2520, Chicago, IL 60603	USER NAME = lsc-user201 DESIGNED - SJP DRAWN - SJP CHECKED - KWB DATE - 04/30/2024	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>MAIN STREET FROM WHEELER DRIVE TO IL 83</b> <b>CROSS SECTIONS</b>	F.A.U. RTE. 3587	SECTION 2020-142-C&DR	COUNTY COOK	TOTAL SHEETS 316	SHEET NO. 200	CONTRACT NO. 62L30
	PLOT SCALE = 240,0000' / ft. PLOT DATE = 1/26/2026	DATE - 04/30/2024	SCALE: 1"=10' SHEET CS-07 OF CS-106 SHEETS STA. 17+50.00 TO STA. 18+50.00	ILLINOIS FED. AID PROJECT							