

014

FOR INDEX OF SHEETS, SEE SHEET NO. 2

03-06-2020 LETTING ITEM 014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

FAU ROUTE 2860: CHICAGO ROAD  
OVER THORN CREEK TRIBUTARY  
(0.3 MILES N OF IL RTE 1 CUTOFF) SN 016-2305  
SECTION 2018-055-CR  
PROJECT STP-5MZC(407)  
CULVERT REPLACEMENT  
COOK COUNTY

C-91-279-18

PROJECT LOCATED IN CITY OF CHICAGO HEIGHTS

### TRAFFIC DATA

2014 ADT = 6,100  
POSTED SPEED = 35 MPH

### DESIGN CLASSIFICATION

MAJOR COLLECTOR

HBM ENGINEERING GROUP, LLC  
ROBERT T. BORO, P.E.  
\*062-043749



DATE: 12/05/2019

SIGNATURE AND SEAL  
APPLY TO DRAWINGS:  
1-7

EXPIRATION DATE: 11-30-2021

HBM ENGINEERING GROUP, LLC  
MOUSSA A. ISSA, PH.D., P.E., S.E.  
\*081-005738



DATE: 12/05/2019

SIGNATURE AND SEAL  
APPLY TO DRAWINGS:  
24-33

EXPIRATION DATE: 11-30-2020

ACCURATE GROUP, INC.  
LISA REBECCA CHRZASC, P.E.  
\*062-067628



DATE: 12/05/2019

SIGNATURE AND SEAL  
APPLY TO DRAWINGS:  
8-18, 20-23 AND 39-52

EXPIRATION DATE: 11-30-2021

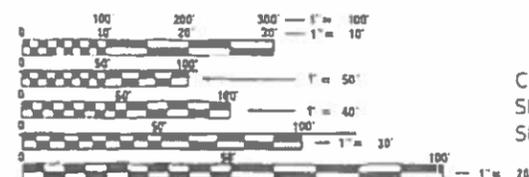
ACCURATE GROUP, INC.  
SNEHA PRIYANG SHAH, S.E.  
\*081-007062



DATE: 12/05/2019

SIGNATURE AND SEAL  
APPLY TO DRAWINGS:  
34-39

EXPIRATION DATE: 11-30-2020

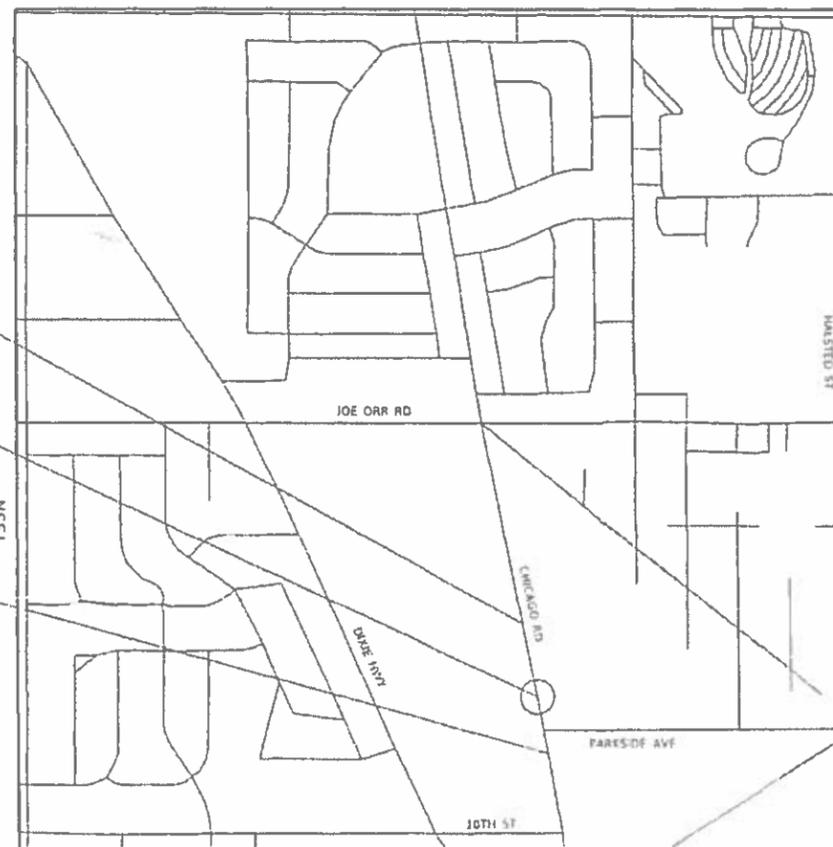


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT MANAGER FAWAD AQUEEL, PE, PTOE (847) 705-4247  
PROJECT ENGINEER PRAVEEN KAINI, PE (847) 705-4237

CONTRACT NO. 62G92



BLOOM TOWNSHIP  
LOCATION MAP NOT TO SCALE  
GROSS LENGTH = NET LENGTH = 1168 FT = 0.221 MILE

I.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	# 67	1

\* 67 + 2 = 69 TOTAL SHEETS  
D-91-354-18



LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED December 16, 2019  
Regional Engineer  
Engineer of Design and Improvement  
Director of Highways Project Implementation

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OF THE STATE OF ILLINOIS



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\* INCLUDES SHEETS 14A AND 14B

**LIST OF HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN, TYPE A
602301-04	INLET, TYPE A
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604006-05	FRAME AND GRATE, TYPE 3
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
602416-08	PRECAST MANHOLE TYPE A 8' DIAMETER
602701-02	MANHOLE STEPS
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**COMMITMENTS**

NONE

MODEL: D:\p\h\... FILE NAME: P117105-746 IDOT District 1\W02 21 Chgo Rd @ Thorn Cr TribSheet\In\ID16292-SHT02-GemNotes1.dgn



USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.00' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 1/24/2020	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND HIGHWAY STANDARDS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: 40.00' / in. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	2
			CONTRACT NO. 62G92	
			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CHICAGO HEIGHTS.
2. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL."
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
5. CONSTRUCTION SHALL COORDINATE AND KEEP THE BLOOM TOWNSHIP HIGH SCHOOL INFORMED OF THE PROPOSED DETOUR PLANS AND SCHEDULE. THE DETOUR FOR THE IMPROVEMENT AND PROJECT SCHEDULE SHOULD BE COORDINATED SO THAT WORK OCCURS DURING THE SUMMER RECESS TO MINIMIZE IMPACTS TO THE SCHOOL BUSING.
6. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0213 OR 811 FOR FIELD LOCATIONS OR BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
7. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
10. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
11. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT LEAST 72 IN ADVANCE OF BEGINNING WORK.
13. THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
14. ANY SIGNAGE, PAVEMENT MARKINGS AND REFLECTORS DAMAGED DURING CONSTRUCTION OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
16. FOR STORM SEWERS CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
17. 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
18. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN PLANS.
19. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
20. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
21. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS "COFFERDAM (TYPE 1) (IN-STREAM /WETLAND WORK)" WITH A BASIS OF PAYMENT OF EACH.
22. THE RESIDENT ENGINEER SHALL COORDINATE THE CLOSURE DATE WITH PACE'S TRANSPORTATION ENGINEER (847) 228-3584 AND PROVIDE 10 DAYS NOTICE OF THE CLOSURE.
23. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
24. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
25. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
26. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
27. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.
28. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE CITY OF CHICAGO HEIGHTS. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
29. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
30. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
31. TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.
32. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE A WALK THROUGH TO DETERMINE TREES FOR SELECTIVE CLEARING, PRUNING, ROOT PRUNING, REMOVAL, AND TREE PROTECTION A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
33. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR LAYOUT OF THE SEEDING, TREES AND PLUGS.
34. VEHICLES WILL NOT BE ALLOWED TO BE PARKED ON THE SOCCER FIELD NOR FOR USE OF CONSTRUCTION STAGING AT ANY TIME.
35. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

MODEL: D:\dgn\11\1102-746 IDOT District 1\1102-746.dgn @ Thom C: Trib\Sheet\1102-746.dgn



USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
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PLOT SCALE = 40.00' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES			
CHICAGO ROAD OVER THORN CREEK TRIBUTARY			
SCALE: 40.00' / in.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	3
CONTRACT NO. 62G92				
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	61		61	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40		40	
20101000	TEMPORARY FENCE	FOOT	846		846	
20101200	TREE ROOT PRUNING	EACH	5		5	
20200100	EARTH EXCAVATION	CU YD	1605		1605	
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	547		547	
20300100	CHANNEL EXCAVATION	CU YD	295		295	
20800150	TRENCH BACKFILL	CU YD	583		196	387
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1639		1639	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	63		63	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3259		3259	
25100115	MULCH, METHOD 2	ACRE	0.5		0.5	
25200100	SODDING	SQ YD	1153		1153	
25200110	SODDING, SALT TOLERANT	SQ YD	1561		1561	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
25200200	SUPPLEMENTAL WATERING	UNIT	25		25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	36		36	
28000400	PERIMETER EROSION BARRIER	FOOT	647		647	
28000510	INLET FILTERS	EACH	20		20	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	544		544	
28100107	STONE RIPRAP, CLASS A4	SQ YD	286		286	
28100203	STONE RIPRAP, CLASS A2	TON	157		157	
28200200	FILTER FABRIC	SQ YD	286		286	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	547		547	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6554		6554	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	803		803	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	980		980	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	297		297	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	297		297	

\* SPECIALTY ITEM  
\*\* 0042

MODEL: Default  
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USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
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PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

SCALE: 40.0000' / in SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	4
CONTRACT NO. 62G92				
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
	S.N. 016-2305	UTILITIES				
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	214	214		
40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5, N50	TON	34	34		
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	4342	4342		
40701846	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/4"	SQ YD	6230	6230		
42001300	PROTECTIVE COAT	SQ YD	1491	1491		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	9748	8198	1550	
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	621	621		
* 42400800	DETECTABLE WARNINGS	SQ FT	73	73		
44000100	PAVEMENT REMOVAL	SQ YD	6230	6230		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	297.0	297		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2280	2280		
44000600	SIDEWALK REMOVAL	SQ FT	5301	3751	1550	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
* 50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	720	720		

\* SPECIALTY ITEM  
\*\* 0042

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
	S.N. 016-2305	UTILITIES				
50800105	REINFORCEMENT BARS	POUND	87690	87690		
50901720	BICYCLE RAILING	FOOT	126	126		
51500100	NAME PLATES	EACH	1	1		
54003000	CONCRETE BOX CULVERTS	CU YD	353.9	353.9		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	524	524		
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	170	170		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	42	42		
55100400	STORM SEWER REMOVAL 10"	FOOT	306	306		
55100700	STORM SEWER REMOVAL 15"	FOOT	30	30		
55100900	STORM SEWER REMOVAL 18"	FOOT	11	11		
* 56103350	DUCTILE IRON WATER MAIN 14"	FOOT	138		138	
* 56105250	WATER VALVES 14"	EACH	2		2	
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2		2	
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	2		2	

MODEL: Default  
FILE NAME: P11710-746 DDT District 11W0 21 Chgo Rd @ Thorn Cr TribSheetC:\m\162692-SH103-S002.dgn



USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
DRAWN - KJD	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: 40.0000' / in SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	5
			CONTRACT NO. 62G92	
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	100% LOCAL
				URBAN	
		BRIDGE			
		0004	0043		
		S.N. 016-2305	UTILITIES		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	2014	2014	
60200310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	4	4	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		4
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2		2
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60260100	INLETS TO BE ADJUSTED	EACH	2	2	
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1	
60260505	INLETS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE	EACH	1	1	
60261530	INLETS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	2	2	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2	
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60406200	FRAMES AND LIDS, TYPE 5, OPEN LID	EACH	3	3	
60500060	REMOVING INLETS	EACH	16	16	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	100% LOCAL
				URBAN	
		BRIDGE			
		0004	0043		
		S.N. 016-2305	UTILITIES		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	105	105	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	2322	2322	
63200310	GUARDRAIL REMOVAL	FOOT	470	470	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	305	305	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
66901005	ENGINEERED BARRIER	SQ YD	45	45	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	30	30	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	444	444	
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	15	15	
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2892	2892	

\* SPECIALTY ITEM  
\*\* 0042

MODEL: Default  
FILE NAME: P11710-746 DDT District 11W0 21 Chgo Rd @ Thorn C. TribSheetCltm\ID16292-SH03-5003.dgn



USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
DRAWN - KJD	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

SCALE: 40.0000' / in SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	6
			CONTRACT NO. 62G92	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				URBAN		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	72		72	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	16		16	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	130		130	
* A2002008	TREE, AESCULUS FLAVEA (YELLOW SWEET BUCKEYE), 2" CALIPER, BALLED AND	EACH	2		2	
* A2002820	TREE, CATALPA SPECIOSA (NORTHERN CATALPA), 2-1/2" CALIPER, BALLED AND	EACH	1		1	
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND	EACH	3		3	
* A2005050	TREE, GYMNOCLADUS DIOICUS PRAIRIE TITAN, (PRAIRIE TITAN KENTUCKY COFFEETREE),	EACH	3		3	
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5		5	
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1		1	
* A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2	
* A2007816	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2" CALIPER, BALLED AND	EACH	1		1	
* A2008470	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2-1/2" CALIPER	EACH	3		3	
* B2006116	TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE	EACH	1		1	
* K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	3.04		3.04	

\* SPECIALTY ITEM  
\*\* 0042

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				URBAN		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
X0327036	BIKE PATH REMOVAL	SQ YD	308		308	
X0327518	ELASTOMERIC CHECK VALVE 12" DIAMETER	EACH	1		1	
X0840000	SANITARY SEWER REMOVAL 8"	FOOT	241			241
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	426		426	
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1		1	
X0900080	TEMPORARY BOARDWALK	SQ FT	381		381	
X0900081	TEMPORARY PEDESTRIAN RAILING	FOOT	269		269	
* X1900003	SEEDING, CLASS 5B (MODIFIED)	ACRE	0.25		0.25	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	790		790	
* X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.25		0.25	
* X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	544		544	
X4420201	PAVEMENT PATCHING (SPECIAL)	SQ YD	14		14	
X5510100	STORM SEWER REMOVAL	FOOT	10		10	
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	14		14	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	222		222	

MODEL: D:\p11710-746\DOT District 1\W0 21 Chgo Rd @ Thorn Ct\TribSheet\CH\1016292-SH03-S004.dgn



USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
DRAWN - KJD	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
CHICAGO ROAD OVER THORN CREEK TRIBUTARY			
SCALE: 40.0000' / in	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 7
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
Z0007430	TEMPORARY SIDEWALK	SQ FT	587	587		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0022800	FENCE REMOVAL	FOOT	29	29		
Z0027800	GEO TECHNICAL FABRIC	SQ YD	269	269		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	77.1	77.1		
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	7010	7010		
* Z0054400	ROCK FILL	CU YD	811	811		
* Z0056900	SANITARY SEWER 8"	FOOT	265		265	
Z0064800	SELECTIVE CLEARING	UNIT	8	8		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4		
** Z0076600	TRAINEES	HOURL	500	500		
** Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500	500		
X1200236	STEEL CASING PIPE , OPEN CUT TRENCH , 24 "	FOOT	80		80	
X1200237	WATERMAIN IN CASING PIPE, DUCTILE IRON, 14"	FOOT	80		80	
X1200238	WATERMAIN FITTINGS	POUNDS	1360		1360	

\* SPECIALTY ITEM  
\*\* 0042

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN CONSTRUCTION CODE		
				80% FED	20% STATE	100% LOCAL
				BRIDGE		
				0004	0043	
				S.N. 016-2305	UTILITIES	
X1200239	WATER MAIN REMOVAL , 14" DIA.	FOOT	130			130

MODEL: Default  
FILE NAME: P:\1710-746 IDOT District 1\170 21 Chgo Rd @ Thorn C TribSheet\CD\162692-SH03-S005.dgn



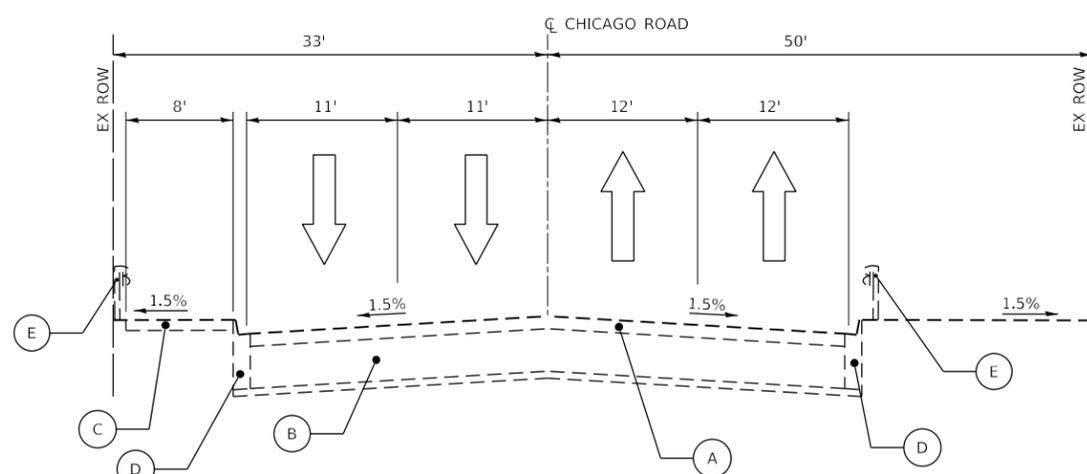
USER NAME = ken.drabant	DESIGNED - KJD	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RTB	REVISED -
PLOT DATE = 12/13/2019	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

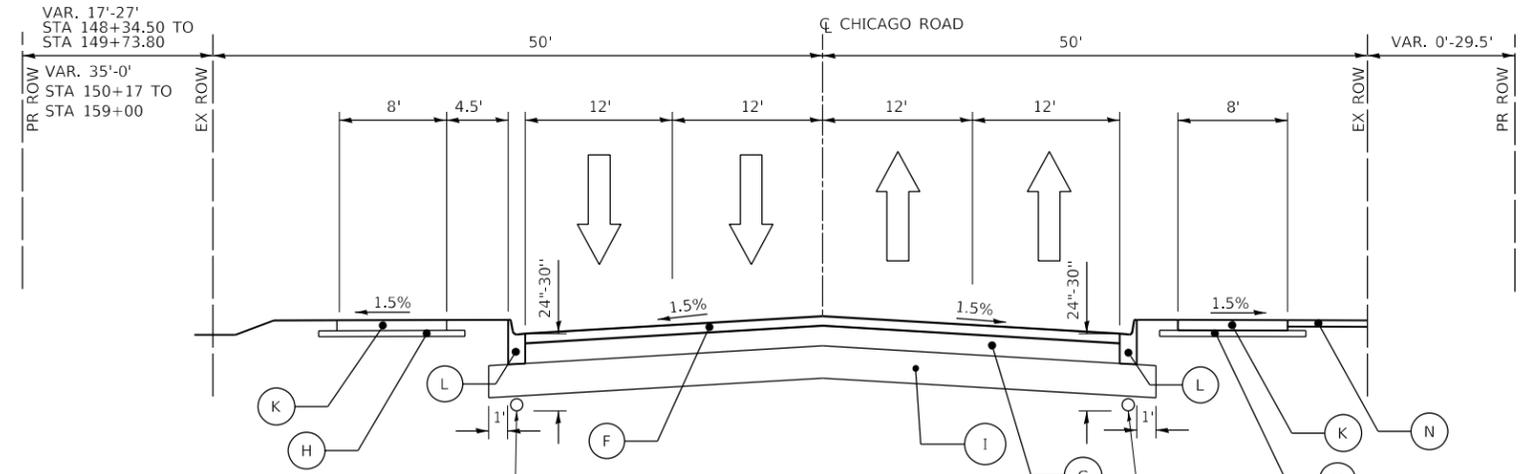
**SUMMARY OF QUANTITIES  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: 40.0000 ' / in SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	8
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

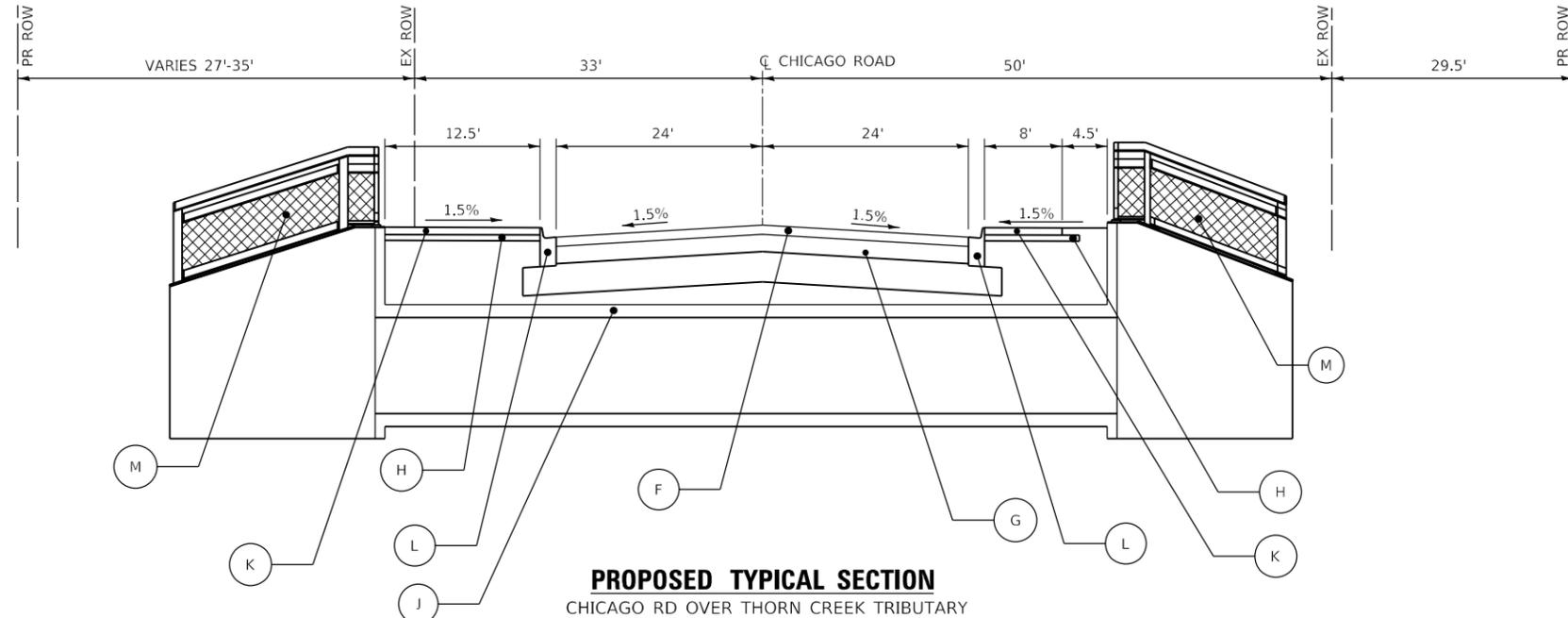


**EXISTING TYPICAL SECTION**  
STA 149+73.80 TO STA 150+17



**PROPOSED TYPICAL SECTION**  
STA 147+31.78 TO STA 149+73.80  
STA 150+17 TO STA 159+00

PIPE UNDERDRAIN, TYPE 2 4" WITH GEOTECHNICAL FABRIC  
STA 148+50 TO STA 149+77  
STA 150+22 TO STA 159+00



**PROPOSED TYPICAL SECTION**  
CHICAGO RD OVER THORN CREEK TRIBUTARY  
(SN 016-2305)  
STA 149+73.80 TO STA 150+17

**LEGEND:**

- (A) EXISTING HMA PAVEMENT, 2 1/4"
- (B) EXISTING PCC PAVEMENT, 9"
- (C) EXISTING PCC SHARED PATH
- (D) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (E) EXISTING STEEL PLATE BEAM GUARDRAIL
- (F) PROPOSED HMA SURFACE COURSE 2", MIX "D", N70
- (G) PROPOSED HMA BINDER COURSE, IL-19.0, N70, 6 1/4"
- (H) PROPOSED AGGREGATE BASE COURSE, TYPE B 4"
- (I) PROPOSED 12" AGGREGATE SUBGRADE IMPROVEMENT
- (J) PROPOSED CULVERT
- (K) PROPOSED PCC SIDEWALK, 5 INCH
- (L) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- (M) PROPOSED 4'-6" BICYCLE RAILING
- (N) TOPSOIL FURNISH & PLACE, 4"

\* HOT-MIX ASPHALT BINDER COURSE IS USED ON TOP OF THE PROPOSED CULVERT TO THE NECESSARY THICKNESS IN LIEU OF 12" AGGREGATE SUBGRADE IMPROVEMENT AND IS PAID AS HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART**

OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
HMA PAVEMENT (FD) 8 1/4"	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 6 1/4"	4% @ 70 GYR. 4% @ 70 GYR.	QC/QA QC/QA
* GRADE CORRECTION & OVER CULVERT	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; THICKNESS VARIES	4% @ 70 GYR.	QC/QA
DRIVEWAYS	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2" HOT-MIX ASPHALT BASE COURSE, 6", (HMA BINDER IL-19 mm)	4% @ 50 GYR. 4% @ 50 GYR.	QC/QA QC/QA
TEMPORARY SIDEWALK	HOT-MIX ASPHALT BINDER COURSE, (IL 19.0) N50, 4"	4% @ 50 GYR.	QC/QA

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

**NOTES**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
5. FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
6. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE THE LAST BINDER LIFT AND BEFORE SURFACE LIFT OF HMA PAVEMENT (FD).

FILE NAME = D:\Engineering\Live\Projects\13840\_IDOT DUR HBM\Work Order\21-62092\CADD\CADD Sheets\Civil\0162092-sh-typical.dgn



USER NAME = johnn	DESIGNED - IH	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - IH	REVISED -
PLOT DATE = 12/12/2019	CHECKED - JMT	REVISED -
	DATE - 08/16/2019	REVISED -

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

<b>TYPICAL SECTIONS</b>			
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	9
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE									
STA	CUT sq. ft.	AVG END AREA	LENGTH	CU YD	ADJUSTMENT FOR SHRINKAGE*	FILL sq. ft.	AVG END AREA	LENGTH	CU YD
147+00	0.00					0.00			
		27.00	50.00	50.00	42.50		0.00	50.00	0.00
147+50	54.00					0.00			
		61.10	50.00	113.15	96.18		0.00	50.00	0.00
148+00	68.20					0.00			
		62.15	50.00	115.09	97.83		0.19	50.00	0.34
148+50	56.10					0.37			
		54.95	50.00	101.76	86.50		0.99	50.00	1.82
149+00	53.80					1.60			
		44.95	50.00	83.24	70.75		4.15	50.00	7.69
149+50	36.10					6.70			
		36.10	26.00	34.76	29.55		6.70	26.00	6.45
149+76	36.10					6.70			
CULVERT									
150+14	47.10					2.30			
		47.10	36.00	62.80	53.38		2.30	36.00	3.07
150+50	47.10					2.30			
		48.15	50.00	89.17	75.79		1.25	50.00	2.31
151+00	49.20					0.20			
		45.90	50.00	85.00	72.25		0.15	50.00	0.28
151+50	42.60					0.10			
		39.25	50.00	72.69	61.78		0.15	50.00	0.28
152+00	35.90					0.20			
		31.45	50.00	58.24	49.50		1.25	50.00	2.31
152+50	27.00					2.30			
		28.55	50.00	52.87	44.94		1.60	50.00	2.96
153+00	30.10					0.90			
		27.50	50.00	50.93	43.29		1.20	50.00	2.22
153+50	24.90					1.50			
		22.20	50.00	41.11	34.94		1.50	50.00	2.78
154+00	19.50					1.50			
		17.90	50.00	33.15	28.18		2.00	50.00	3.70
154+50	16.30					2.50			
		18.50	50.00	34.26	29.12		4.20	50.00	7.78
155+00	20.70					5.90			
		20.50	50.00	37.96	32.27		3.95	50.00	7.31
155+50	20.30					2.00			
		18.15	50.00	33.61	28.57		3.55	50.00	6.57
156+00	16.00					5.10			
		20.50	50.00	37.96	32.27		3.05	50.00	5.65
156+50	25.00					1.00			
		29.10	50.00	53.89	45.81		1.05	50.00	1.94
157+00	33.20					1.10			
		34.45	50.00	63.80	54.23		0.65	50.00	1.20
157+50	35.70					0.20			
		39.15	50.00	72.50	61.63		0.45	50.00	0.83
158+00	42.60					0.70			
		59.05	50.00	109.35	92.95		0.35	50.00	0.65
158+50	75.50					0.00			
		61.65	50.00	114.17	97.04		0.00	50.00	0.00
159+00	47.80					0.00			
						0.00			
				1605.0	1361.0				68.0

CHANNEL EXCAVATION SCHEDULE									
STA	CUT sq. ft.	AVG END AREA	LENGTH	CU YD	ADJUSTMENT FOR SHRINKAGE*	FILL sq. ft.	AVG END AREA	LENGTH	CU YD
10+37	69.40					0.00			
		80.15	18.00	53.43	45.42		0.85	18.00	0.57
10+55	90.90					1.70			
		66.74	10.00	24.72	21.01		1.40	10.00	0.52
10+65	42.57					1.10			
		44.79	10.00	16.59	14.10		2.30	10.00	0.85
10+75	47.00					3.50			
11+60	196.00					3.40			
		186.50	10.00	69.07	58.71		1.70	10.00	0.63
11+70	177.00					0.00			
		186.05	10.00	68.91	58.57		0.00	10.00	0.00
11+80	195.10					0.00			
		116.20	14.06	60.51	51.43		0.00	14.06	0.00
11+94	37.30					0.00			
				295.0	249.0				3.0

TOPSOIL EXCAVATION AND PLACEMENT SCHEDULE				
STA	CUT sq. ft.	AVG END AREA	LENGTH	CU YD
10+37	0.00			
		4.45	18.00	2.97
10+55	8.90			
		13.00	10.00	4.81
10+65	17.10			
		9.20	10.00	3.41
10+75	1.30			
11+60	0.90			
		27.25	10.00	10.09
11+70	53.60			
		48.80	10.00	18.07
11+80	44.00			
		44.50	14.06	23.17
11+94	45.00			
				63.0

SIDEWALK SCHEDULE							
STATION	STATION	DETECTABLE WARNING (SQ FT)	PCC SIDEWALK, 5 INCH (SQ FT)	PCC SIDEWALK, 8 INCH (SQ FT)	SIDEWALK REMOVAL (SQ FT)	TEMPORARY SIDEWALK (SQ FT)	TEMPORARY BOARDWALK (SQ FT)
CHICAGO ROAD							
147+31.78	147+81	14			189		
148+41	148+76	9			196		
153+80	153+90				52		
154+45	154+50				26		
155+24	156+00				355		
147+31.78	147+92		420				
148+24	149+86		1380				
148+36	150+98		1534				
151+41	152+23		404				
152+55	153+90		671				
150+19	151+49		2829				
154+45	155+14		347				
155+24	155+62		190				
155+73	156+00		132				
157+70	157+95		130				
158+20	158+53		161				
150+98	151+41			220			
152+23	152+55			168			
155+14	155+24			50			
155+62	155+73			57			
157+95	158+20			126			
147+32	147+92				425	425	
147+87	147+92	20					
148+35	149+59				920	920	
148+39	148+41	10					
149+59	150+13						381
150+13	152+83				1588	1588	
160+60	160+65	10					
160+60	160+65	10					
TOTAL		73	8198	621	3751	2933	381

AGGREGATE SCHEDULE					
STATION	STATION	AGGREGATE BASE COURSE, TYPE B 4" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 6" (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE B 4" (SQ YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)
CHICAGO ROAD					
147+31.78	147+92	47			
148+36	153+90	153			
154+45	156+00	333			
157+70	158+53	314			
148+24	149+86	86			
150+19	151+49	46			
150+97	151+41		54		
152+23	152+56		47		
154+20	154+40		31		
155+09	155+29		26		
155+60	155+77		23		
156+00	156+15		24		
156+89	157+08		44		
157+91	158+26		48		
147+31.78	159+00				6554
UNDER COMBINATION CURB AND GUTTER					
				803	
TOTAL		980	297	803	6554

COMBINATION CONCRETE CURB AND GUTTER SCHEDULE					
STATION	STATION	OFFSET	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12 (FOOT)	COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 (FOOT)
CHICAGO ROAD					
147+70	147+95	RT	44	83	
148+34	159+00	RT	1069		1069
148+40	159+00	LT	1060		1168
160+55	160+70	LT	30		30
160+55	160+70	RT	30		30
147+82	147+96	RT	22	22	
148+31	149+50	RT	25		25
TOTAL			2280	105	2322



USER NAME = johnn	DESIGNED - LRC	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - LRC	REVISED -
PLOT DATE = 1/24/2020	CHECKED - JMT	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES - I  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	10
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				

LANDSCAPING SCHEDULE							
STATION	STATION	OFFSET	SODDING (SALT TOLERANT) (SQ YD)	SODDING (SQ YD)	SEEDING, CLASS 5B (MODIFIED) (ACRE)	SEEDING, CLASS 4B (MODIFIED) (ACRE)	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)
CHICAGO ROAD							
148+40	149+81	LT	61				61
150+20	159+00	LT	630				630
148+42	149+72	RT	40				40
150+10	150+96	RT	27				27
151+42	152+21	RT	27				27
152+56	154+20	RT	170				170
154+40	158+95	RT	558				558
148+30	149+50	LT		176			176
150+81	151+75	LT		120			120
147+25	147+95	RT		148			148
148+42	149+31	RT		156			156
150+44	151+00	RT		40			40
151+42	152+21	RT		145			145
152+56	154+20	RT		176			176
154+40	158+95	RT		191			191
149+50	150+09	LT			0.03	0.03	125
150+26	150+81	LT			0.03	0.03	137
149+31	149+70	RT			0.03	0.03	141
150+03	150+44	RT			0.03	0.03	141
160+55	160+70	LT	26				26
160+55	160+70	RT	23				23
ROUNDED TOTAL			1561	1153	0.25	0.25	3259

TEMPORARY FENCE		
STATION	OFFSET	TEMPORARY FENCE (FOOT)
CHICAGO ROAD		
150+29	54' LT	34
151+02	51.4' LT	30
151+60	53.5' LT	33
150+52 TO 150+95	34'-53' RT	67
153+65	34.2' RT	33
153+87	33.1' RT	33
154+14	34.3' RT	33
154+51	33.2' RT	33
157+49	35' RT	33
157+81	34.3' RT	33
148+43 TO 149+54	27.9' RT	111
150+18 TO 153+90	27.2' RT	372
TOTAL		846

TREE ROOT PRUNING		
STATION	OFFSET	TREE ROOT PRUNING (EACH)
CHICAGO ROAD		
153+65	34' RT	1
153+87	33' RT	1
154+14	34' RT	1
154+51	33' RT	1
157+81	34' RT	1
TOTAL		5

PAVEMENT MARKER SCHEDULE		
STATION	STATION	RAISED REFLECTIVE PAVEMENT MARKER (EACH)
CHICAGO ROAD		
147+32	147+83	8
148+40	159+00	60
147+32	147+83	6
148+40	159+00	56
TOTAL		130

TREE REMOVAL			
STATION	OFFSET	TREE REMOVAL (6-15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
CHICAGO ROAD			
149+38	40' RT	12	
149+39	36' RT		22
149+75	33' RT	8	
150+10	35' RT	10	
149+66	60' RT	6	
149+75	77' RT	12	
150+13	67.5' RT	13	
150+29	54' LT		18
TOTAL		61	40

PERIMETER EROSION BARRIER SCHEDULE			
STATION	STATION	OFFSET (LT/RT)	PERIMETER EROSION BARRIER (FOOT)
CHICAGO ROAD			
148+31	148+34	31'-50' LT	20
148+34	149+50	50' LT	116
149+50	149+50	50'-60' LT	10
149+50	149+80	60' LT	30
149+80	149+80	60'-68' LT	8
149+80	150+09	68' LT	30
150+78	150+52	68' LT	27
150+52	150+78	50'-68' LT	18
150+78	151+75	50' LT	97
151+75	151+75	33'-50' LT	11
148+41	149+36	50' RT	95
149+36	149+36	50'-80' RT	30
149+36	149+57	80' RT	21
150+03	150+36	80' RT	32
150+36	150+36	80' RT	30
150+36	151+00	50' RT	64
151+00	150+97	41.2'-50' RT	8
TOTAL			647

INLET FILTERS		
STATION	OFFSET (LT/RT)	INLET FILTERS (EACH)
CHICAGO ROAD		
147+89	RT	1
148+02	LT	1
148+36	RT	1
149+45	LT	1
149+47	RT	1
150+69	LT	1
152+19	LT	1
152+21	LT	1
153+69	RT	1
153+71	LT	1
154+44	RT	1
154+44	LT	1
155+97	RT	1
156+02	LT	1
157+65	LT	1
157+66	RT	1
159+26	RT	1
159+26	RT	1
160+83	RT	1
160+85	LT	1
TOTAL		20

TEMPORARY LANDSCAPING AND EROSION SCHEDULE					
STATION	STATION	OFFSET	TEMPORARY EROSION CONTROL SEEDING (POUND)	TEMPORARY EROSION CONTROL BLANKET (SQ YD)	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL (SQ YD)
CHICAGO ROAD					
149+50	150+09	LT	9	125	125
150+26	150+81	LT	9	137	137
149+31	149+70	RT	9	141	141
150+03	150+44	RT	9	141	141
ROUNDED TOTAL			36	544	544

PAVEMENT MARKING SCHEDULE									
STATION	STATION	TYPE	OFFSET	THERMOPLASTIC PAVEMENT MARKING-LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING-LINE 12" (FOOT)	THERMOPLASTIC PAVEMENT MARKING-LINE 24" (FOOT)	PAVEMENT MARKING TAPE, TYPE IV 12" (FOOT)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)	
CHICAGO ROAD									
147+32	147+83	DOUBLE YELLOW CENTERLINE		102					
148+40	159+00	DOUBLE YELLOW CENTERLINE		2120					
148+40	159+00	YELLOW DASH	LT	390					
147+32	147+83	YELLOW DASH	RT	10					
148+40	159+00	YELLOW DASH	RT	270					
147+82	148+40	WHITE	31' RT		72				
148+40	159+00	WHITE STOP BAR PEDESTRIAN	47' RT			16			
160+59		PEDESTRIAN					216	108	
TOTAL							444	222	

PAVEMENT SCHEDULE							
STATION	STATION	HOT-MIX ASPHALT BASE COURSE, 6" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (TON)	HOT-MIX BINDER COURSE, IL-19.0, N70 (TON)	HOT-MIX PAVEMENT (FULL DEPTH), 8 1/4" (SQ YD)	PAVEMENT PATCHING (SPECIAL) (SQ YD)
CHICAGO ROAD							
147+31.78	159+00		4205			6230	
147+76	150+15				214		
150+97	151+41	53.7	25	6.0			
152+23	152+56	47.0	22	5.3			
154+20	154+40	30.9	14	3.5			
155+09	155+29	25.9	12	2.9			
155+60	155+77	23.2	11	2.6			
156+00	156+15	24.2	11	2.7			
156+89	157+08	43.7	20	4.9			
157+91	158+26	47.8	22	5.4			
148+22	SE QUAD						3
148+22	NE QUAD						3
160+59	W QUAD						4
160+59	E QUAD						4
TOTAL		297	4342	34	214	6230	14

REMOVAL SCHEDULE				
STATION	STATION	BIKE PATH REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	PAVEMENT REMOVAL (SQ YD)
CHICAGO ROAD				
147+31.78	159+00			6230
148+24	149+86	154		
150+19	151+49	154		
150+97	151+41		54	
152+23	152+56		47	
154+20	154+40		31	
155+09	155+29		26	
155+60	155+77		23	
156+00	156+15		24	
156+89	157+08		44	
157+91	158+26		48	
TOTAL		308	297	6230

TEMPORARY PAVEMENT MARKING REMOVAL WILL BE USED TO REMOVE THE TEMPORARY PAVEMENT MARKING TAPE, TYPE IV 12" FOR THIS CONTRACT

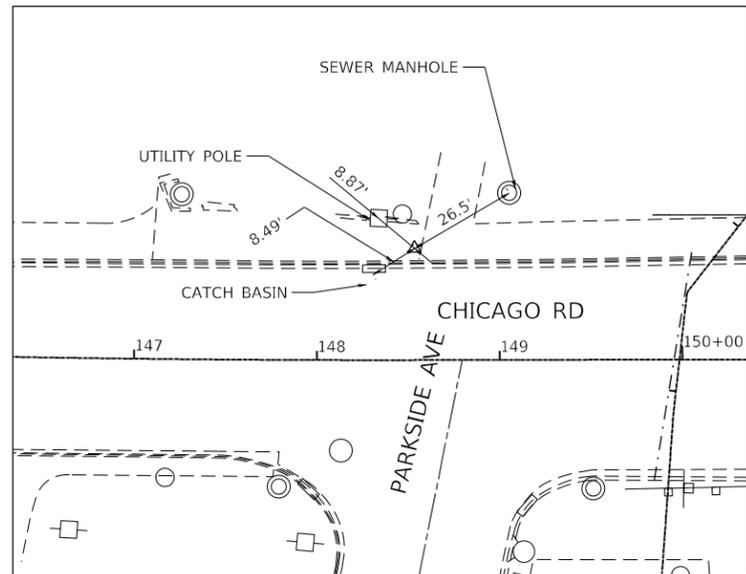


USER NAME = JENT	DESIGNED - AB	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - AB	REVISED -
PLOT DATE = 1/17/2020	CHECKED - JMT	REVISED -
	DATE - 08/16/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES - II			
CHICAGO ROAD OVER THORN CREEK TRIBUTARY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

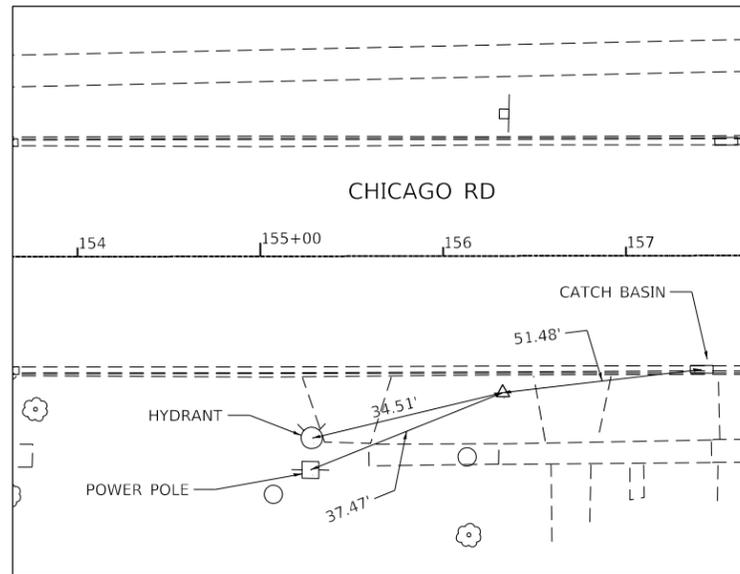
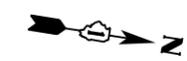
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	11
CONTRACT NO.			62G92	
ILLINOIS FED. AID PROJECT				



**C.P. #101**

IRON ROD WITH YELLOW CAP

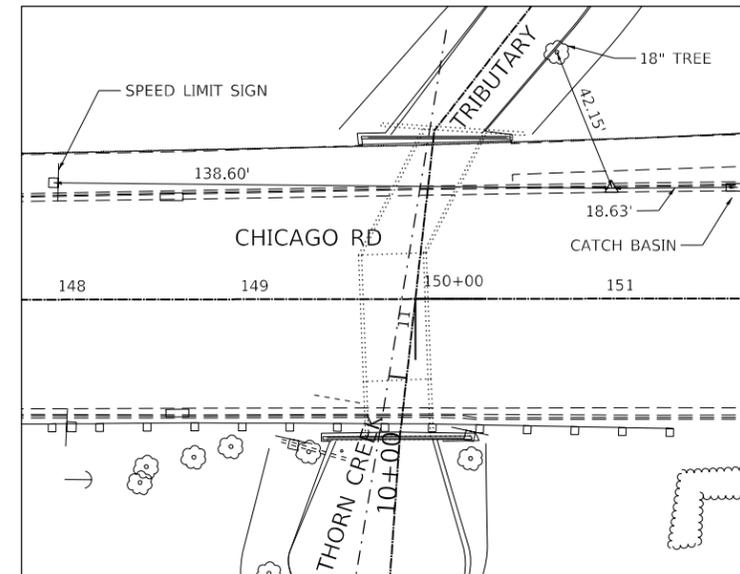
N = 1766664.833  
E = 1173381.384  
ELEV = 645.511



**C.P. #102**

MAG NAIL

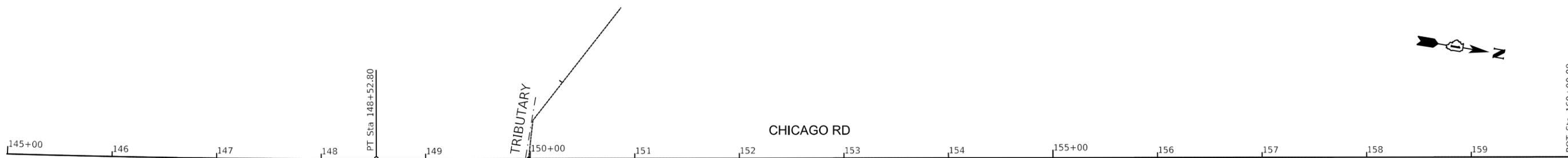
N = 1767395.185  
E = 1173277.070  
ELEV = 644.562



**C.P. #103**

IRON ROD WITH YELLOW CAP

N = 176785.157  
E = 1173124.747  
ELEV = 645.239



CURVE CHICAGORD\_1  
 P.I. STA = 144+26.60  
 Δ = 4° 18' 04" (LT)  
 D = 0° 30' 16"  
 R = 11,360.43'  
 T = 426.60'  
 L = 852.80'  
 E = 8.01'  
 P.C. STA. = 140+00.00  
 P.T. STA. = 148+52.80

STA 149+98 (CHICAGO RD) =  
 STA 11+17 (THORN CREEK TRIBUTARY)

FILE NAME = O:\Engineering\Live\Projects\13840\_IDOT DUR HBM\Work Order\21-62092\CADD\CADD Sheets\Civil\0162092-shr-ABT.dgn



USER NAME = lchrzasc	DESIGNED - IH	REVISED -
PLOT SCALE = 40000.0000' / in.	DRAWN - IH	REVISED -
PLOT DATE = 12/12/2019	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

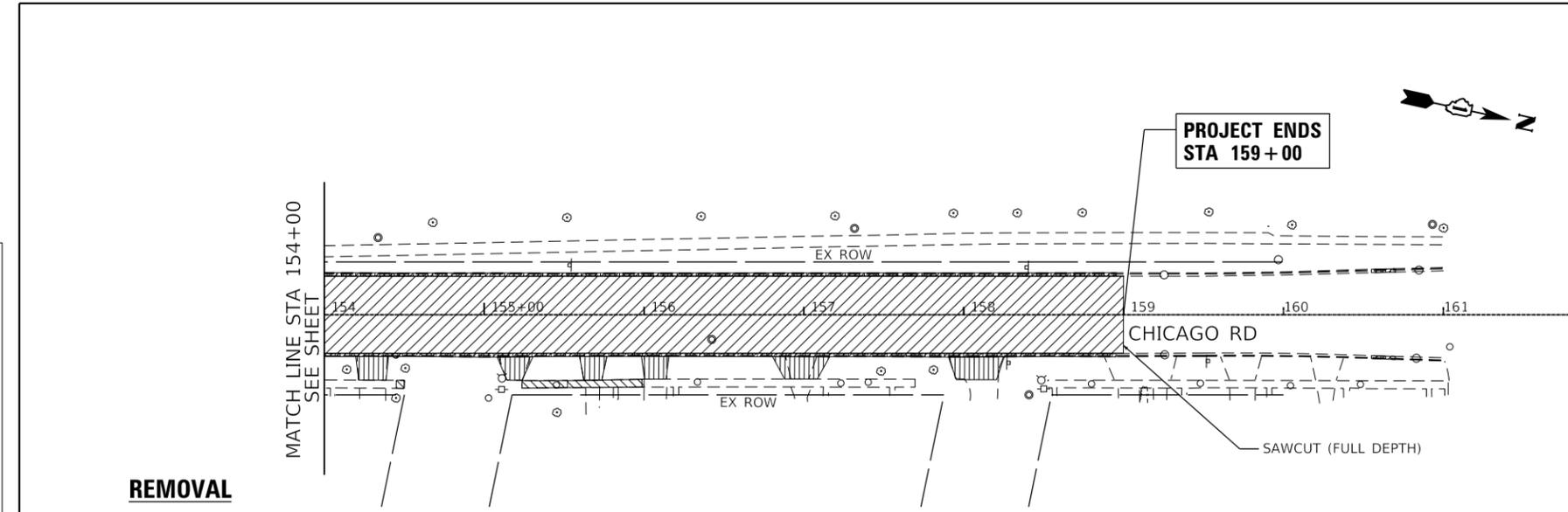
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	12
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				



DATE	
BY	
REVISIONS	
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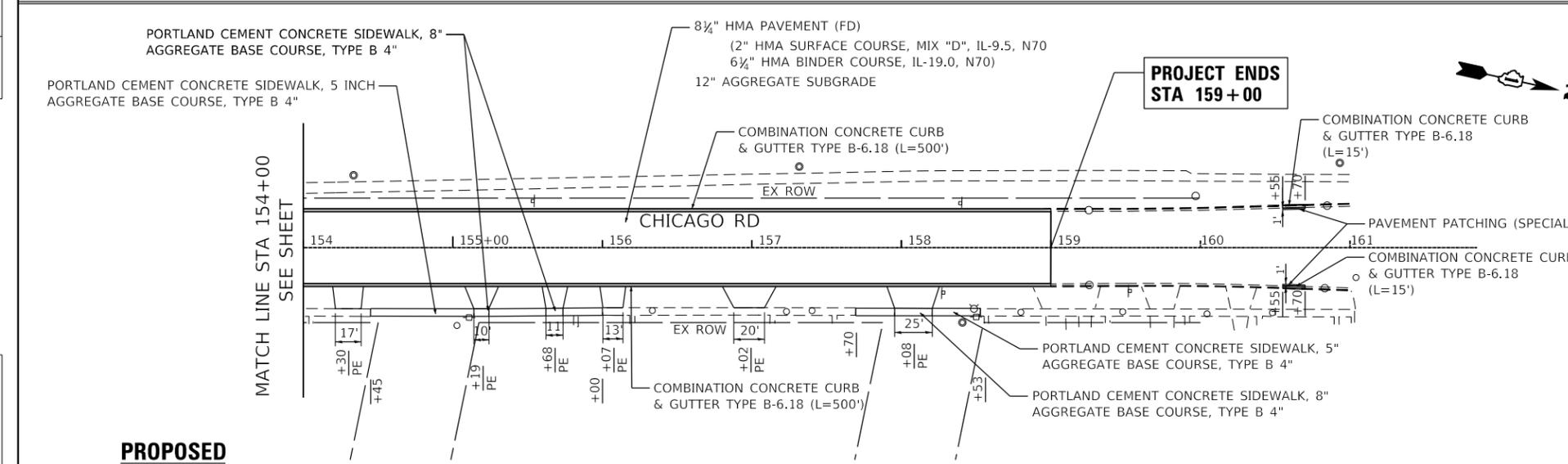
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REVISIONS	
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**REMOVAL**

**LEGEND**

- PAVEMENT REMOVAL
- BIKE PATH REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL

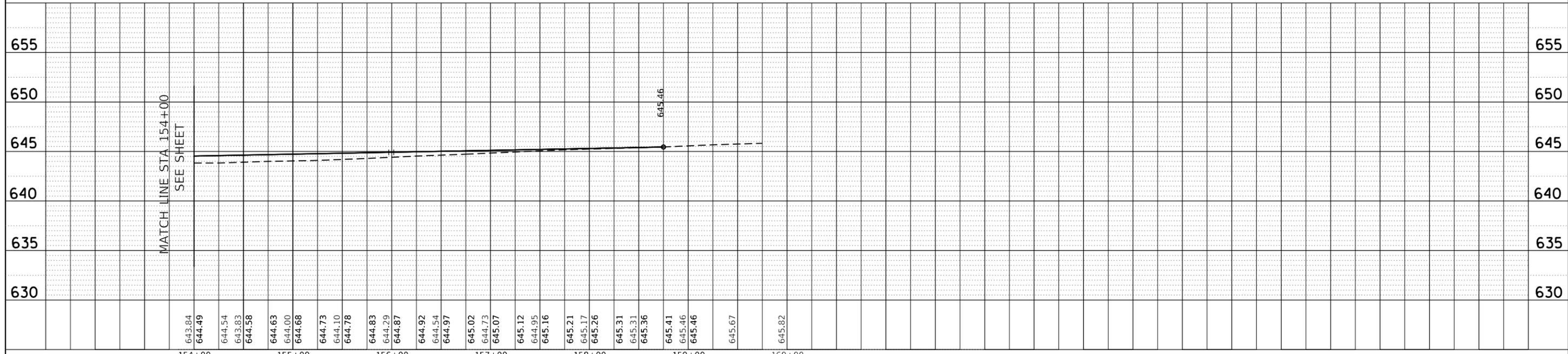


**PROPOSED**

**NOTES:**

1. SEE HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART FOR AREA OVER CULVERT MIXES.
2. STONE RIPRAP, CLASS A2 WILL BE UTILIZED TO FILL SCOUR HOLE AND FILL IN CHANNEL EXCAVATION. CONTRACTOR TO VERIFY DIMENSIONS IN THE FIELD BEFORE ORDERING MATERIAL.
3. PROPOSED SIDEWALK AT ALL DRIVEWAY LOCATIONS SHALL BE PORTLAND CEMENT CONCRETE SIDEWALK, 8".

PE - HMA SURFACE COURSE, MIX "D", N50, 2"  
HMA BASE COURSE, 6"  
AGGREGATE BASE COURSE, TYPE B 6"



MODEL: Defaut	USER NAME = JENT	DESIGNED - JH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED PLAN AND PROFILE - II CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 14
FILE NAME: "	PLOT SCALE = 100.0000' / in.	CHECKED - JMT	REVISED -			CONTRACT NO. 62G92				
	PLOT DATE = 1/17/2020	DATE - 08/16/2019	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET OF SHEETS STA. TO STA.			

## MAINTENANCE OF PEDESTRIAN ACCESS GENERAL NOTES

1. TEMPORARY FACILITIES SHALL BE DETECTABLE AND ACCESSIBLE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
3. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
4. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE OR REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
5. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED, COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
6. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING PEDESTRIAN CROSSINGS AND WALKWAYS TO THE BEST OF THEIR ABILITY.
8. TEMPORARY SIDEWALK SHALL BE USED, AS NECESSARY, IN LOCATIONS SPECIFIED BY THE RESIDENT ENGINEER.
9. BOARDWALK AND PEDESTRIAN RAILING SHALL BE CONTRACTOR DESIGNED AND PROVIDED, MUST MEET ADA STANDARDS, AND RAILING SHALL BE EQUIVALENT TO 4 FEET HIGH CHAIN LINK FENCE. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.

## SUGGESTED SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER.

1. INSTALL EROSION CONTROL DEVICES PER EROSION CONTROL PLANS.
2. INSTALL TRAFFIC CONTROL DEVICES AS PER HIGHWAY STANDARD STANDARD 701101.
3. RELOCATE WATERMAIN ON EAST SIDE OF CHICAGO RD AS SHOWN IN WATERMAIN PLANS.
4. CONSTRUCT PCC SIDEWALK WHERE THERE ARE GAPS IN THE EXISTING SIDEWALK ON THE EAST SIDE OF CHICAGO RD AS PER THE LIMITS SHOWN IN MOT PLANS.
5. CONSTRUCT HMA AND CONCRETE TEMPORARY SIDEWALK, TEMPORARY BOARDWALK, TEMPORARY RAILING, CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT AND PAVEMENT PATCHING AS SHOWN IN MOT PLANS.
6. INSTALL DETECTABLE WARNINGS AND TEMPORARY CROSSWALKS ACROSS CHICAGO RD AND PARKSIDE DR AS SHOWN IN TEMPORARY SIDEWALK PLANS.
7. INSTALL TRAFFIC CONTROL DEVICES AS PER MOT PLANS AND HIGHWAY STANDARD 701801 TO CLOSE THE SIDEWALK ON THE WEST SIDE OF CHICAGO RD AND SHIFT PEDESTRIANS TO THE EAST SIDE.
8. CLOSE CHICAGO RD AND DETOUR THE TRAFFIC AS PER DETOUR PLANS.
9. REMOVE AND RECONSTRUCT THE ROADWAY AND THE CULVERT, REMOVE GUARDRAIL, CONSTRUCT JUNCTION CHAMBERS, INSTALL DRAINAGE STRUCTURES AND PIPES, RELOCATE SANITARY SEWER, RECONSTRUCT THE WEST SIDE SIDEWALK AND CONCRETE CURB AND GUTTER AND AS SHOWN IN PLANS.
10. SHIFT PEDESTRIAN TRAFFIC ON TO THE NEW SIDEWALK ON WEST SIDE AS PER HIGHWAY STANDARD 701801.
11. REMOVE THE TEMPORARY SIDEWALK, CONCRETE CURB AND GUTTER ON TH EAST SIDE OF CHICAGO RD. CONSTRUCT THE PROPOSED PCC SIDEWALK, COMBINATION CONCRETE CURB AND GUTTER AND PAVEMENT PATCHING AS SHOWN IN PLANS.
12. COMPLETE ROADWAY REGRADING, CHANNEL EXCAVATION AND STONE RIPRAP INSTALLATION AS SHOWN IN PLANS.
13. RESTRIPE PERMANENT PAVEMENT MARKINGS.
14. REMOVE ALL DETOUR SIGNS AND REOPEN THE ROAD TO TRAFFIC.
15. COMPLETE ALL UNFINISHED LANDSCAPING.
16. REMOVE TEMPORARY EROSION CONTROL DEVICES AND REMAINING TRAFFIC CONTROL DEVICES.

FILE NAME = \*



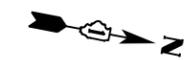
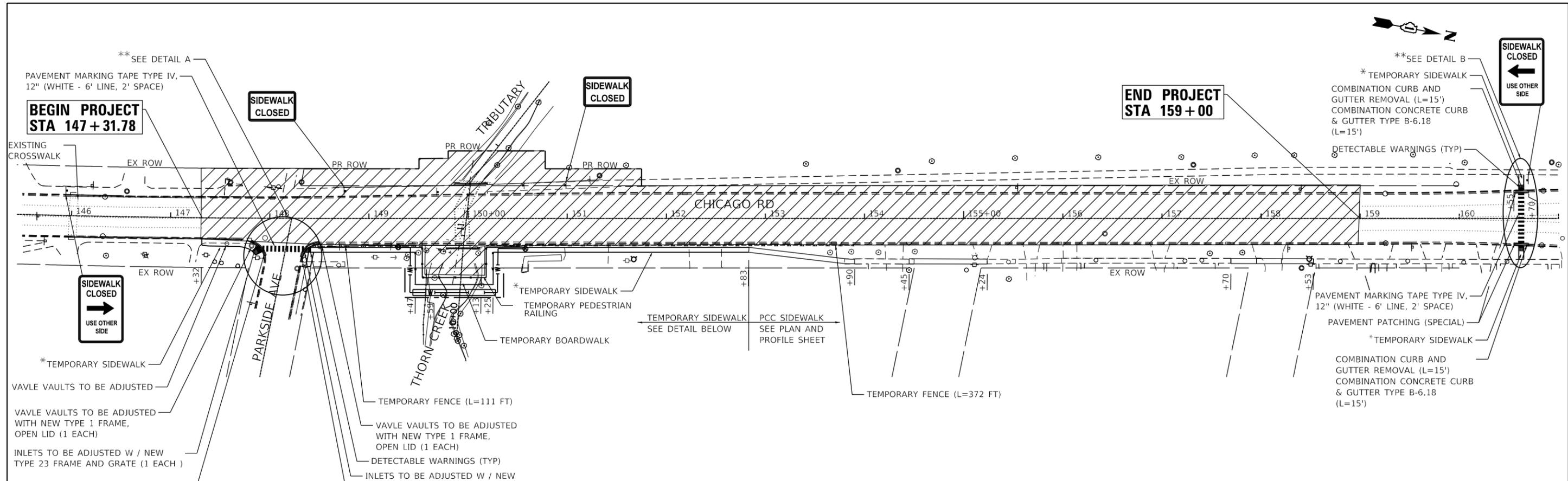
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	DRAWN - AB	REVISED -
PLOT SCALE = 2.0000' / 1" =	CHECKED - JMT	REVISED -
PLOT DATE = 1/17/2020	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF PEDESTRIAN ACCESS GENERAL NOTES  
AND SUGGESTED SEQUENCE OF CONSTRUCTION  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	14A
<b>CONTRACT NO.</b>			<b>62G92</b>	
ILLINOIS FED. AID PROJECT				



**SIDEWALK CLOSED**  
←  
USE OTHER SIDE

**MOT LEGEND**

- WORK ZONE AREA
- SIGN POST
- TEMPORARY SIDEWALK CONCRETE
- TEMPORARY FENCE

**NOTES**

- \* ALL TEMPORARY SIDEWALK SHOULD BE HOT-MIX ASPHALT AS PER HMA MIXTURE CHART IN TYPICAL SECTION SHEET EXCEPT THE TEMPORARY SIDEWALK PANEL WITH DETECTABLE WARNINGS.
- \* TEMPORARY SIDEWALK PANELS WITH DETECTABLE WARNINGS SHOULD BE PCC SIDEWALK AS PER TEMPORARY SIDEWALK SPEC.
- SEE REMOVAL PLANS FOR TREE REMOVAL.

**\*\* DETAIL A FOR TEMPORARY SIDEWALK LAYOUT AT PARKSIDE DR**

**\*\* DETAIL B FOR TEMPORARY SIDEWALK LAYOUT AT CHICAGO RD**



USER NAME = johnn	DESIGNED - AB	REVISED -
DRAWN - AB	REVISED -	
CHECKED - JMT	REVISED -	
DATE - 08/16/2019	REVISED -	

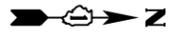
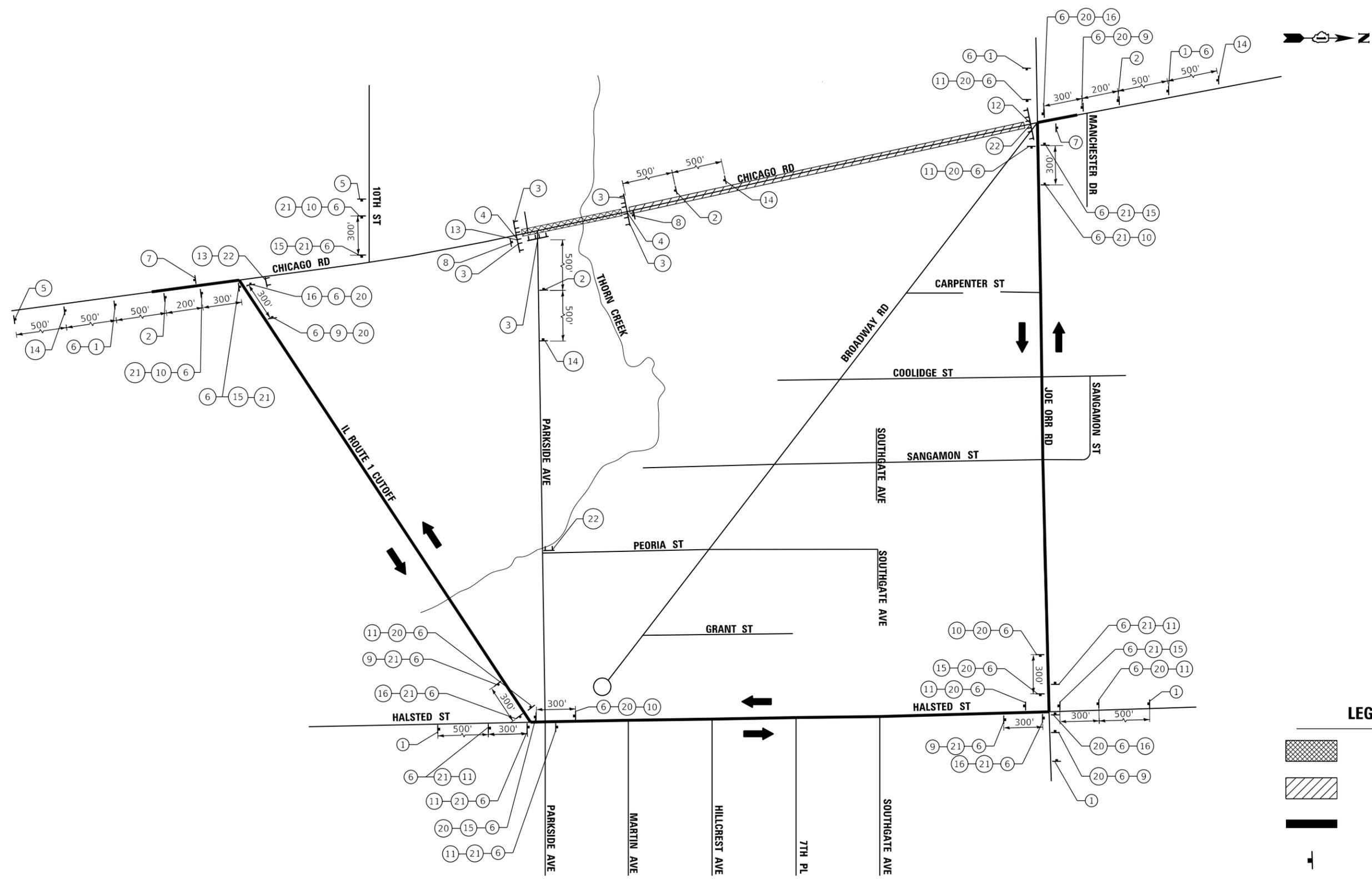
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SIDEWALK PLAN AND DETAILS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	14B
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\LiveProjects\13840\_IDOT DUR HBM\Work Order 21-62092\CADD\CADD Sheets\Civil\0162092-shr-Detour Route.dgn



- LEGEND**
-  PROJECT AREA FULLY CLOSED
  -  PROJECT AREA PARTIALLY CLOSED
  -  DETOUR ROUTE
  -  SIGN / SIGN ASSEMBLY ON POST
  -  TYPE III BARRICADE WITH TWO AMBER FLASHING LIGHTS
  -  DIRECTION OF TRAFFIC



USER NAME = lchrzasc	DESIGNED - IH	REVISED -
DRAWN - IH	REVISOR -	REVISED -
CHECKED - LRC	REVISOR -	REVISED -
DATE - 08/16/2019	REVISOR -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

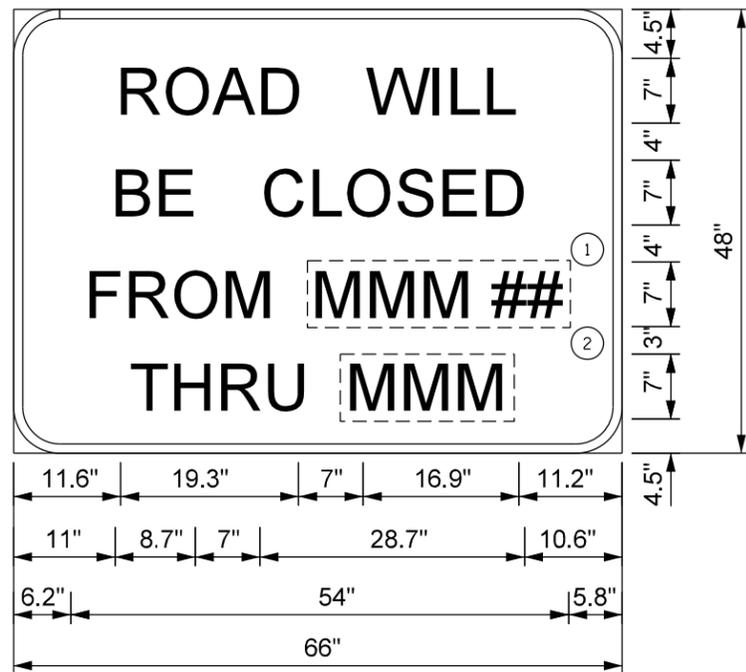
**DETOUR PLAN  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	15
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				

**SIGN LEGEND**

①		W20-2(O) 4848	⑥		M1-1100.2-2412	⑫		M4-10L 4818	⑱		R3-2 2424
②		W20-3(O) 4848	⑦		M4-8A(O) 2418	⑬		M4-10R 4818	⑲		W20-1103(O)-36
③		R11-2 4830	⑧		R11-1101-2418	⑭		W20-3(O) 4848	⑳		M3-3 2412
④		R11-2 4830	⑨		M5-1L 2115	⑮		M4-9R 3024	㉑		M3-1 2412
⑤		ADVISORY SIGN 6" BLACK LETTERING ON ORANGE BACKGROUND	⑩		M5-1R 2115	⑯		M4-9L 3024	㉒		R11-4 6030
			⑪		M6-3 2115	⑰		R3-1 2424			



- USE BLACK LETTERING ON ORANGE BACKGROUND.
- ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS ① AND ② IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.
- SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- ONE SIGN ASSEMBLY EQUALS 27.3 SQ. FT.
- EACH SIGN ASSEMBLY SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING".

TYPICAL DETOUR SIGN ASSEMBLY



NOTES:

- THE CONTRACTOR SHALL NOTIFY THE CITY OF CHICAGO HEIGHTS ONE MONTH PRIOR TO THE ROAD CLOSURE. "ROAD WILL BE CLOSED FROM MMM \*\* THRU MMM" SIGNAGE NEEDS TO BE IN PLACE TWO WEEKS PRIOR TO THE CLOSURE.
- PARKWAY SPACE IS LIMITED. THE CONTRACTOR WILL ENSURE THESE SIGNS DO NOT BLOCK THE SIDEWALK OR EXTEND ONTO THE STREET.
- SIGNS FOR THE DETOUR ARE INCLUDED IN THE CONTRACT LUMP SUM COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- SIGN PLACEMENT SHALL BE DONE ACCORDING TO DISTRICT STANDARDS TC-10 AND TC-21. (SEE SHEETS 46 AND 49 FOR DETAILS)
- ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
- FOR TYPICAL SIGN INSTALLATION - SEE HIGHWAY STANDARD 701901.
- APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.

FILE NAME = D:\Engineering\LiveProjects\13840\_IDOT DUR HBM\Work Order\21-62092\CADD\CADD Sheets\Civil\0162092-shr-Detour\_Signage.dgn



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PLOT SCALE = 2.0000' / in.	DRAWN - IH	REVISED -
PLOT DATE = 12/12/2019	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE SIGN LEGEND  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-BR	COOK	67	16
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

**EROSION AND SEDIMENT CONTROL GENERAL NOTES**

1. ALL CONTROL MEASURES NECESSARY MUST MEET THE MINIMUM REQUIREMENTS AS DESCRIBED IN THE LATEST EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ADDITIONAL DETAILS AND BMPs ARE ALSO AVAILABLE AND CAN BE UTILIZED AS SHOWN IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
2. ALL THE SOIL EROSION AND SEDIMENT CONTROL FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND THE INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER, WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE ENGINEER OR AUTHORIZED IDOT PERSONNEL.
6. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10-FT VERTICALLY OR THE FINISHED SLOPE EQUALS 30-FT, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL OR EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
7. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES TO BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS THROUGHOUT THE PROJECT.
8. THE CONTRACTOR'S REPRESENTATIVE HAS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND HAVE TAKEN AN ILLINOIS DEPARTMENT OF TRANSPORTATION OR APPROVED EQUAL EROSION AND SEDIMENT CONTROL COURSE. THIS PERSON SHALL HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTION CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY THE ENGINEER. THIS INDIVIDUAL AND THE ENGINEER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
  - A. DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED.
  - B. STRUCTURAL CONTROL MEASURES (SUCH AS PERIMETER EROSION BARRIER, ETC.)
  - C. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT SITE.
  - D. AN ADDITIONAL INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MADE WEEKLY AND WITHIN 24-HOURS AFTER A 24-HOURS RAINFALL OR EQUIVALENT SNOWFALL EVENT GREATER THAN 0.5-INCH. DURING WINTER MONTHS, ALL MEASURES MUST BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
9. ALL THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON, AS WELL AS OVER THE WINTER SHUTDOWN PERIOD AND OTHER DAYS WHEN THE PROJECT IS CLOSED DOWN FOR A LONGER DURATION. ANY CONTROL MEASURES FILLED MORE THAN 75% MUST BE CLEANED AND RESET AND THESE SPOILS REMOVED TO AN APPROVED SITE.
10. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND ACTIVE DRAINAGE PATHS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE. IMMEDIATELY AFTER THE FINAL SHAPING OF THE STOCKPILE, THE TOPSOIL WILL BE STABILIZED IN ACCORDANCE WITH THE METHOD APPROVED BY IDOT. THE CONTRACTOR WILL PROVIDE ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
11. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR, THE COST OF THE CONTROLS WILL BE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER, THE DEPARTMENT WILL ASSUME THE COST OF INSTALLING AND MAINTAINING THE CONTROLS.
12. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

13. IF AND/OR WHEN THE CONTRACTOR REQUESTS CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH 25 FEET AWAY FROM THE SHOULDER OF THE ROAD PROVIDED THE FOLLOWING CONDITIONS ARE MET:
  - A. ALL AREAS BEING STABILIZED ARE 1:3 SLOPES OR FLATTER
  - B. THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH MULCH METHOD 2.
  - C. ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
14. TOPSOIL PLACEMENT: TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARY STEEP SLOPES.
15. THE CONTRACTOR'S REPRESENTATIVE AND THE ENGINEER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTIONS. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORT MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
16. ANY SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING CONTROL MEASURE PRIOR TO RELEASE FROM THE PROJECT SITE.
17. NO WORK IS ALLOWED BEYOND THE PERMITTED AREA. ANY WORK WITHIN A CREEK OR DITCH CAPABLE OF CONVEYING WATER MUST BE CONDUCTED IN THE DRY. PROVISIONS MUST BE MADE TO BYPASS PUMP OR DEWATER ANY AREAS IN WHICH WORK WILL BE CONDUCTED. IN HIGH FLOW CHANNELS WHERE DEWATERING IS NOT POSSIBLE OR PRACTICAL, SILT FENCE OR SEDIMENT CURTAINS MAY BE INSTALLED PARALLEL TO THE STREAM BANK. IN NO CASE WILL THE CURTAINS BE INSTALLED PERPENDICULAR TO THE FLOW. DEWATERING MUST BE DISCHARGED TO A STABLE, NON-ERODIBLE SURFACE AND IN-STREAM WORK BARRIERS MUST BE COMPOSED OF NON-ERODIBLE MATERIAL.
18. SEEDING USAGE
 

CLASS 4B (MODIFIED) AND CLASS 5B (MODIFIED):  
USED ON FINAL DISTURBED CONSTRUCTION AREAS INDICATED ON THE PLANS.

TEMPORARY EROSION CONTROL SEEDING:  
USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
19. THE CONTRACTOR MUST COOPERATE WITH THE ENGINEER AND HIS/HER REPRESENTATIVE WHO WILL MAKE SITE VISITS TO REVIEW THE COMPLIANCE OF THE PLANS IN THE FIELD AND AUDIT IF NECESSARY. THE CONTRACTOR MUST PREPARE THE LOGS AND RECORDS WHEN REQUIRED AND SUBMIT TO IDOT AND/OR APPROPRIATE AGENCIES.
20. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION CONTROL BARRIER MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
21. THE CONTRACTOR WILL PROVIDE THE ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE ESPECIALLY WHEN RAIN IS FORECAST, SO THAT FLOW WILL NOT BE EROSION AND WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS. THE LACK OF AN APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
22. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
23. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN ONE (1) DAY AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF FOURTEEN (14) OR MORE CALENDAR DAYS.
24. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
25. THE CONTRACTOR IS REQUIRED TO PROVIDE WASHOUT FACILITIES TO COMPLY WITH EROSION CONTROL PERMITS.

26. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND - NO INTRUSION". THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY THE METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICK UP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER.
27. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
28. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONAL DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
29. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS "COFFERDAM (TYPE 1)IN-STREAM/WETLAND WORK)" WITH A BASIS OF PAYMENT OF EACH.
30. MULCH METHOD 2 SHOULD BE APPLIED TO SLOPES FOR TEMPORARY STABILIZATION PRIOR TO SEASONS WHEN TEMPORARY SEED WILL NOT GERMINATE, FOR EXAMPLE IN MID-JULY OR IN WINTER.

**SOIL EROSION AND SEDIMENT CONTROL STRATEGY:**

1. INSTALL TRAFFIC CONTROL DEVICES.
2. ERECT PERIMETER EROSION BARRIERS AS SHOWN ON THE PLANS.
3. INSTALL INLET FILTERS AS SHOWN ON THE PLANS.
4. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.
5. REMOVE EXISTING PAVEMENTS, SIDEWALKS, AND STRUCTURES AS SHOWN ON THE PLANS.
6. CONSTRUCT PROJECT IMPROVEMENTS AS SHOWN ON THE PLANS.
7. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
8. TEMPORARY STABILIZATION OF EACH STAGE SHOULD BE COMPLETED BEFORE WORK BEGINS ON SUBSEQUENT STAGES.
9. STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION.
10. WHEN THE PERMANENT STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.

**HIGHWAY STANDARD**

STD. NO. TITLE  
280001 TEMPORARY EROSION CONTROL SYSTEMS

**SOIL PROTECTION SCHEDULE:**

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
PERMANENT SEEDING						→					→	
DORMANT SEEDING	→		→							→		→
TEMPORARY SEEDING										→		
EROSION BLANKET / HYDROMULCH											→	

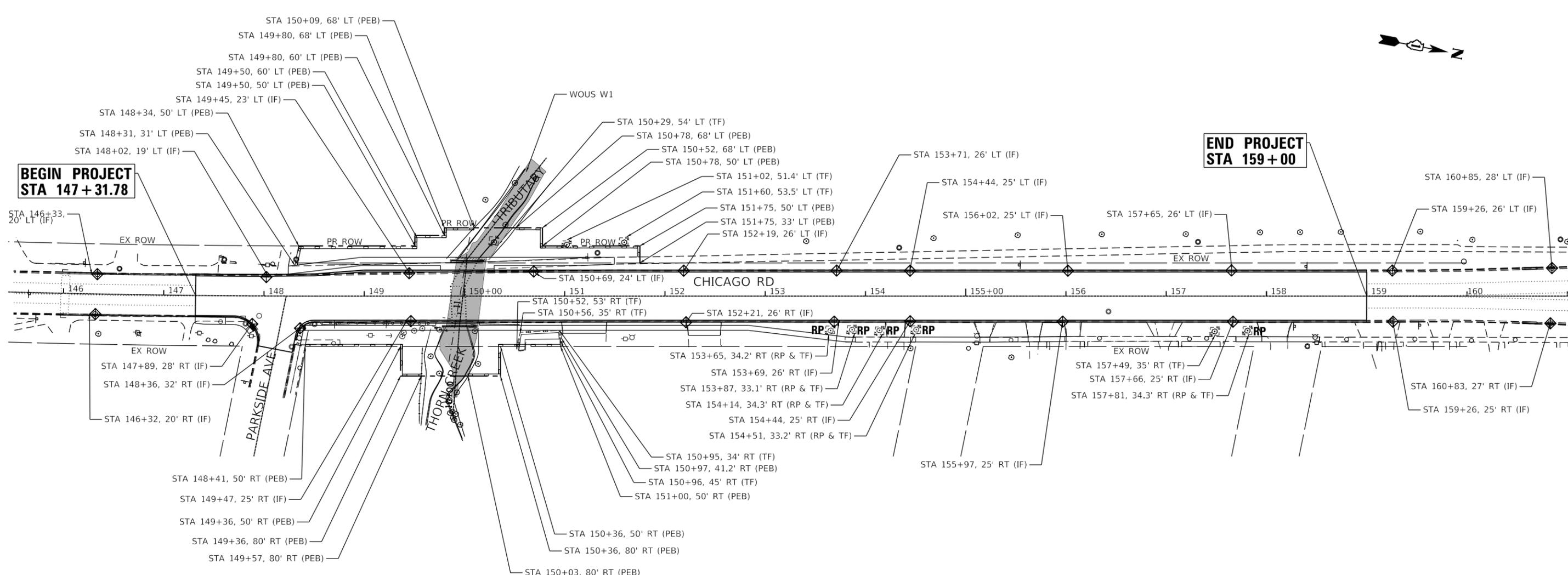
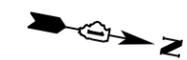
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PLOT DATE = 12/12/2019	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL NOTES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>		2860	2018-055-BR	COOK	67	17
SCALE: SHEET OF SHEETS STA. TO STA.		<b>CONTRACT NO. 62G92</b>				
		ILLINOIS FED. AID PROJECT				



**END PROJECT  
STA 159+00**

**BEGIN PROJECT  
STA 147+31.78**

**EROSION CONTROL LEGEND**

- PERIMETER EROSION BARRIER (PEB)
- ⊠ TEMPORARY FENCE (TF)
- RP TREE ROOT PRUNING
- ⊕ INLET FILTERS (IF)



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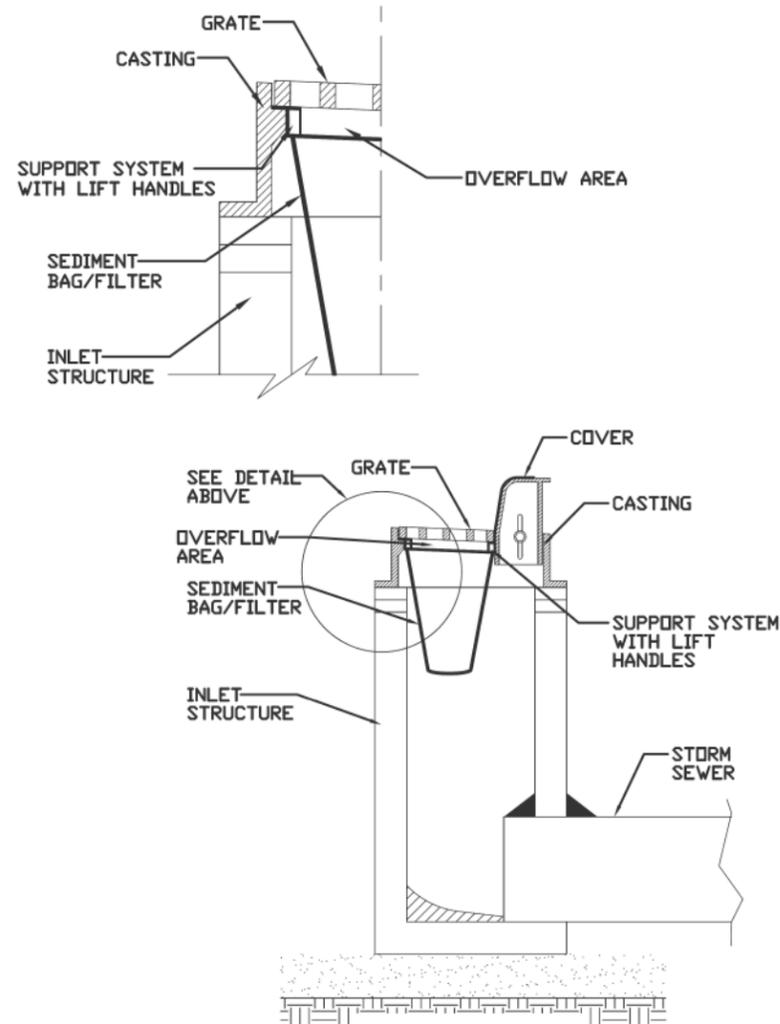
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	18
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

# INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION

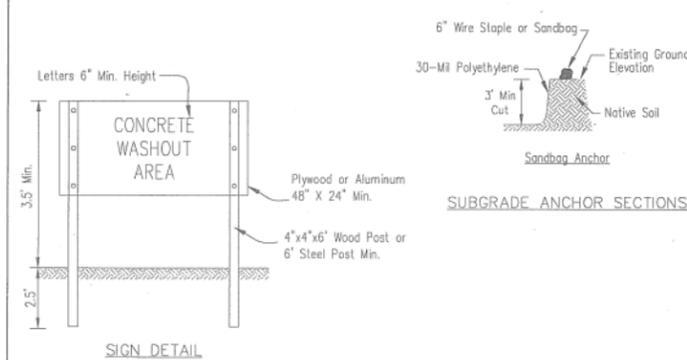
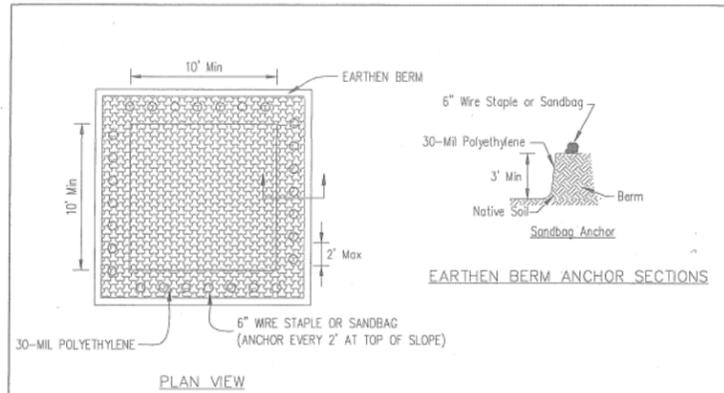


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Project	_____
Designed	_____ Date _____
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Approved	_____ Date _____



STANDARD DWG. NO.  
**IUM-561D**  
SHEET 1 OF 1  
DATE 01-11-11

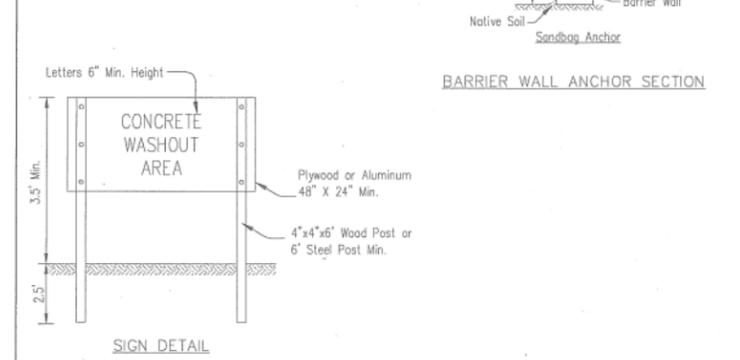
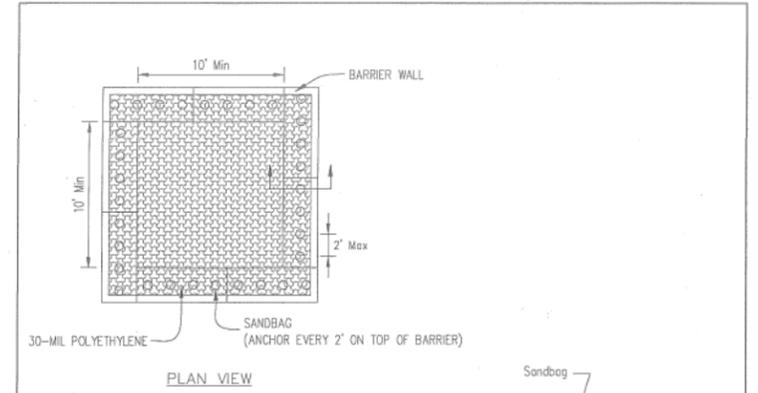
AUTOCAD2006



NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

AUTOCAD2006



NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

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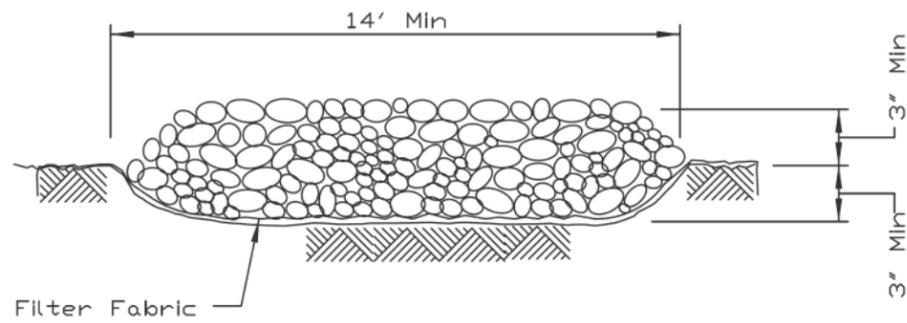
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	DATE - 08/16/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

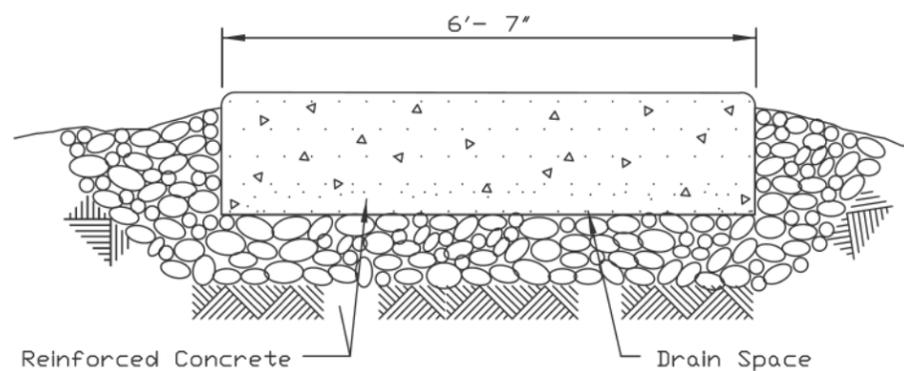
EROSION AND SEDIMENT CONTROL DETAILS CHICAGO ROAD OVER THORN CREEK TRIBUTARY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	19
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

# STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



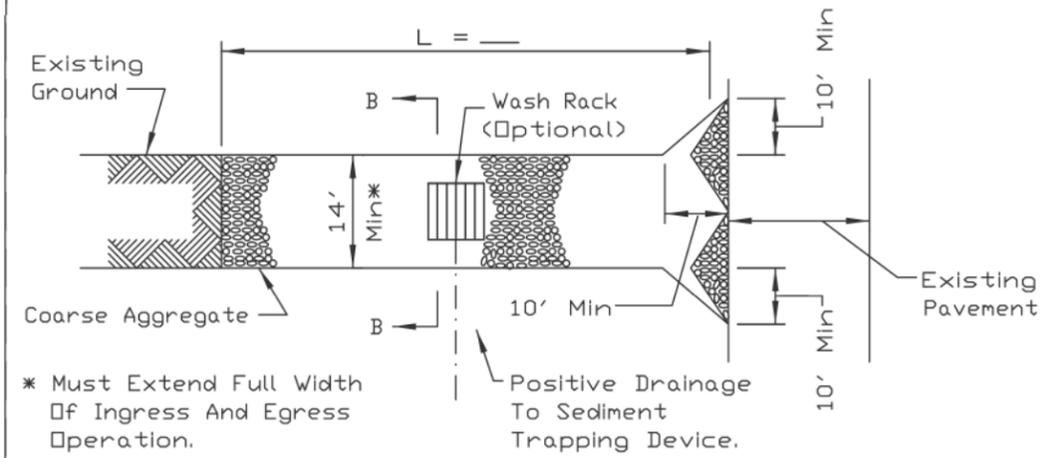
SECTION B-B

REFERENCE	Project _____
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	Approved _____ Date _____

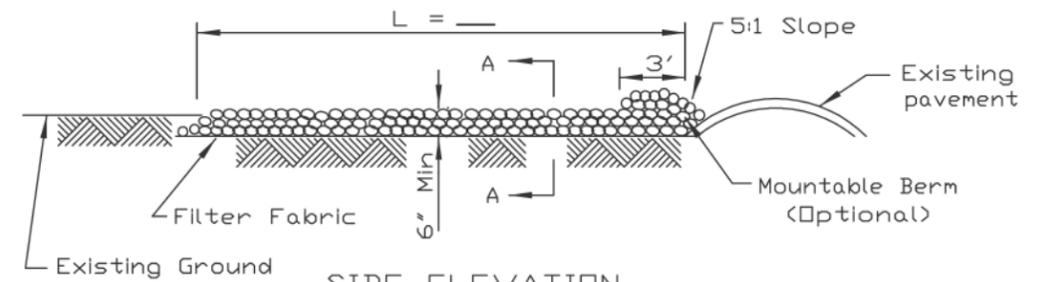


STANDARD DWG. NO.  
IL-630  
SHEET 2 OF 2  
DATE 8-18-94

# STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	Project _____
	Designed _____ Date _____
	Checked _____ Date _____
	Approved _____ Date _____



STANDARD DWG. NO.  
IL-630  
SHEET 1 OF 2  
DATE 8-18-94

FILE NAME = Q:\Engineering\Live\Projects\13840\_IDOT DUR HBM\Work Order\21-62092\CADD\CADD Sheets\Civil\0162092-ent-ErosionControlDetails\_2.dgn



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	DRAWN - LRC	REVISED -
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PLOT DATE = 12/12/2019	DATE - 08/16/2019	REVISED -

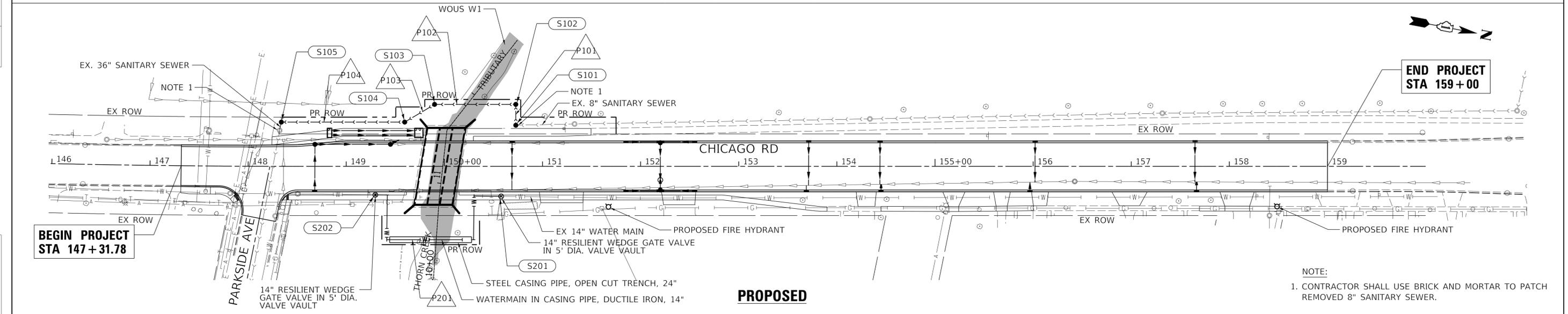
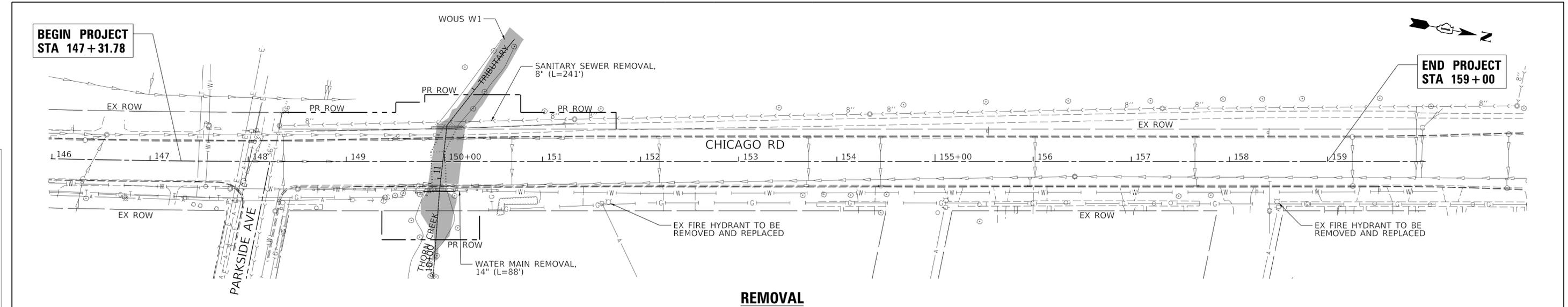
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS 2			
CHICAGO ROAD OVER THORN CREEK TRIBUTARY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

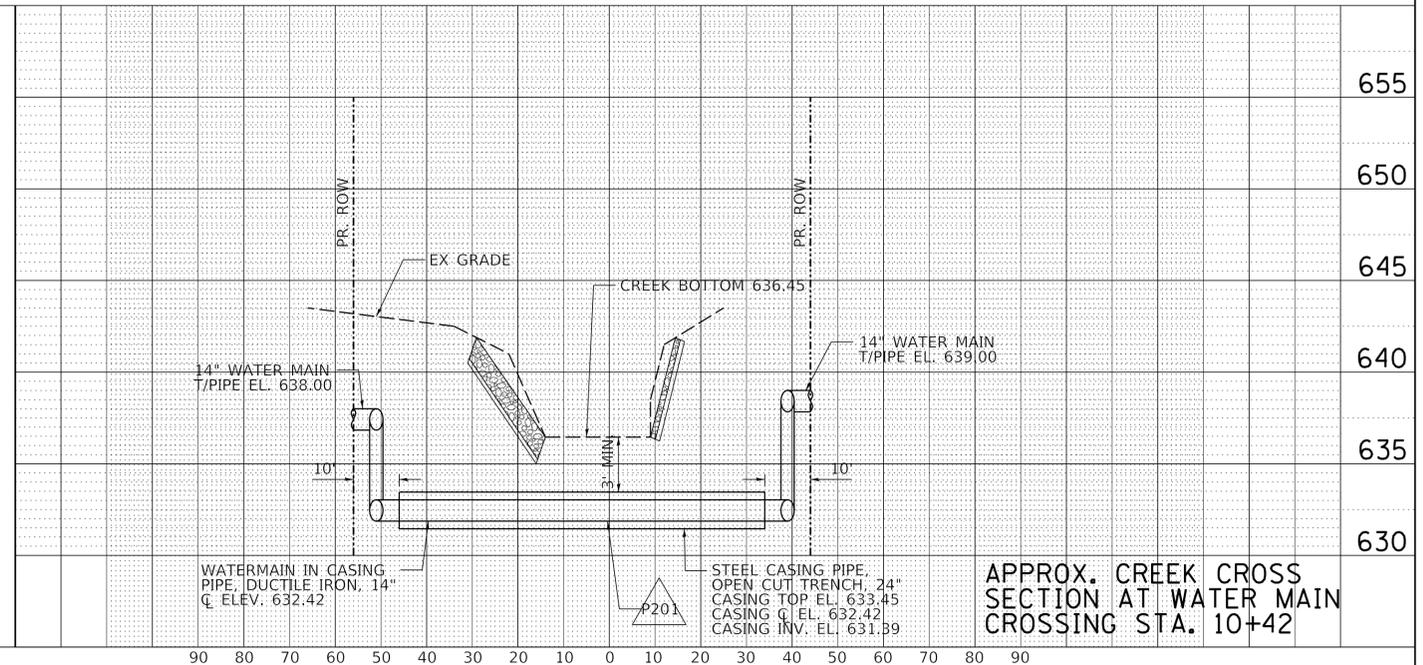
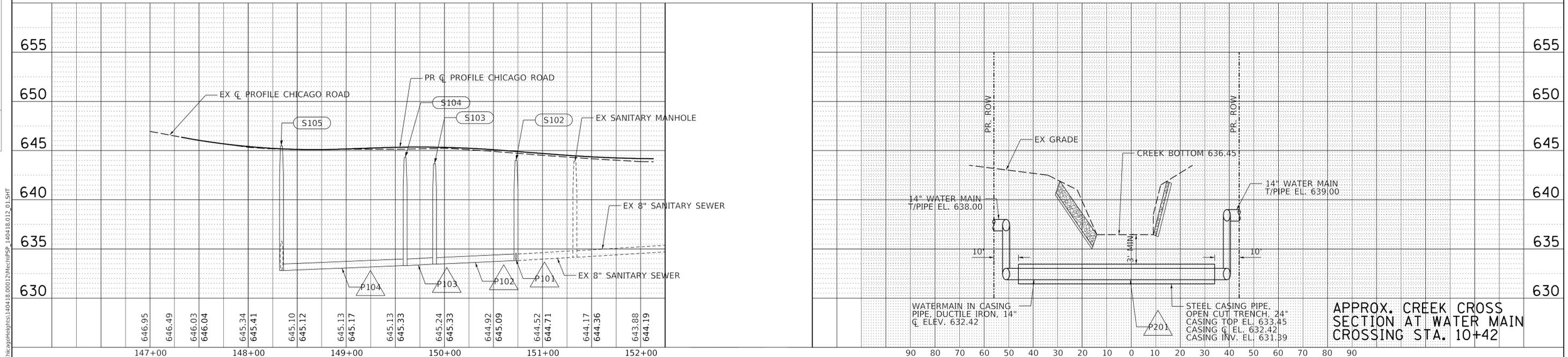
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	20
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	GRADES	NO.
	STRUCTURE	NOTATIS
	CPWD	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	NO.	
	STRUCTURE	NOTATIS
	CPWD	



NOTE:  
1. CONTRACTOR SHALL USE BRICK AND MORTAR TO PATCH REMOVED 8" SANITARY SEWER.



USER NAME = rbillings	DESIGNED - JPC	REVISED -
PLOT SCALE = 50'	DRAWN - ROB	REVISED -
PLOT DATE = 1/21/2020	CHECKED - JPC	REVISED -
	DATE - 12/09/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SANITARY SEWER AND WATER MAIN PLAN AND PROFILE  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	

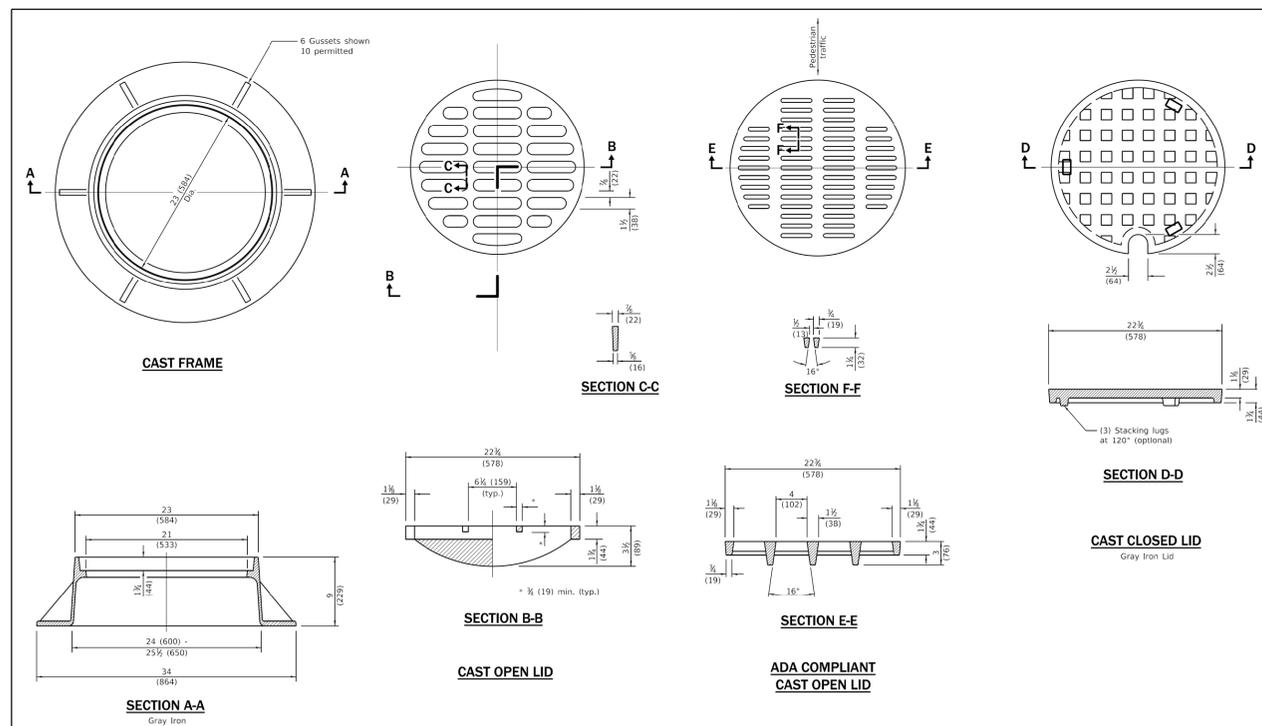
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X0840000	SANITARY SEWER REMOVAL 8"	TOTAL (FT)	241
FROM STATION	OFFSET	TO STATION	OFFSET
150+73	41.8' LT	148+32	36.6' LT
SUBTOTAL (FT)			241

SANITARY SEWER SUMMARY		
PAY ITEM #	PIPE DESCRIPTION	FOOT
Z0056900	SANITARY SEWER, 8"	265

STRUCTURE NO.	STATION	OFFSET	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION			
					NORTH	EAST	SOUTH	WEST
					S101	150+73	41.8' LT	MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID
S102	150+73	63.0' LT	MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	643.30		633.81	633.80	
S103	149+90	63.0' LT	MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	643.67	633.46		633.45	
S104	149+60	45.0' LT	MANHOLE, TYPE A, 4' DIA., TYPE 1 FRAME, CLOSED LID	644.33	633.31		633.30	
S105	148+34	45.0' LT	MANHOLE, TYPE A, 5' DIA., TYPE 1 FRAME, CLOSED LID	645.47	632.80	632.79	632.80	

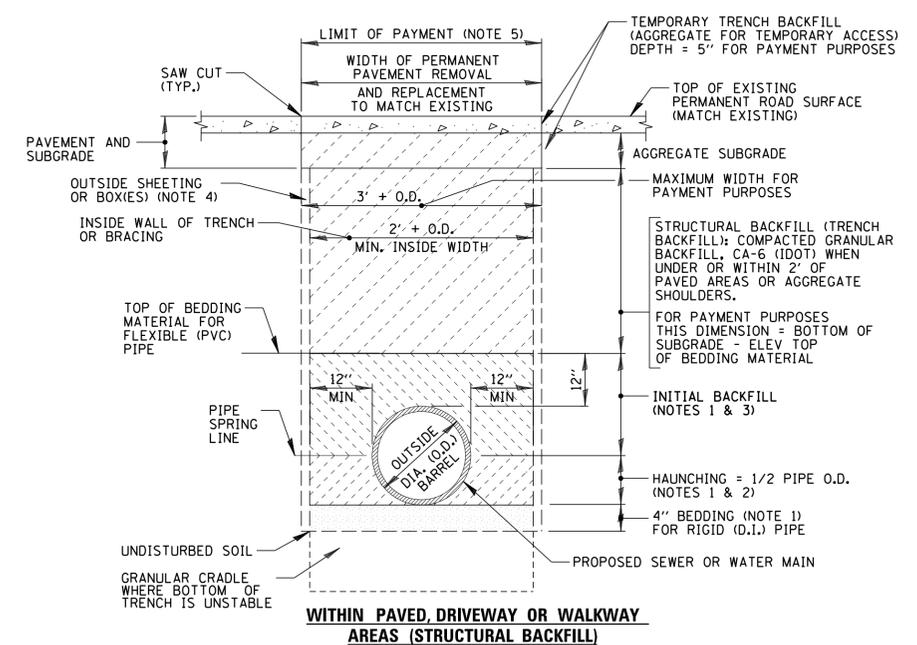
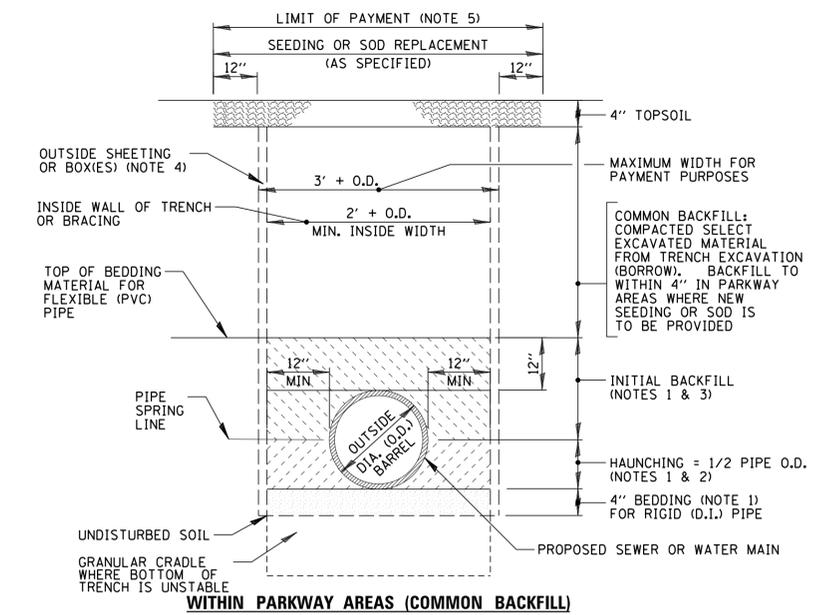
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE (DIA) (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE/PIPE	TRENCH BACKFILL (CU YD)
P101	SANITARY SEWER C900 CERTA-LOK	8	21	0.40	S101	S102	17
P102	SANITARY SEWER C900 CERTA-LOK	8	83	0.40	S102	S103	68
P103	SANITARY SEWER C900 CERTA-LOK	8	35	0.40	S103	S104	29
P104	SANITARY SEWER C900 CERTA-LOK	8	126	0.40	S104	S105	103



ILLINOIS DEPARTMENT OF TRANSPORTATION	DESIGNED - JPC
PASSED - [Signature]	DRAWN - ROB
ENGINEER OF POLICY AND PROCEDURES	CHECKED - JPC
APPROVED - [Signature]	DATE - 12/09/2019
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-20	Revised dimension in Section B-B of cast open lid.
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.
1-1-09	Switched units to English (metric).

<b>FRAME AND LIDS</b>
<b>TYPE 1</b>
STANDARD 604001-05



- NOTES:**
- BEDDING/HAUNCHING/INITIAL BACKFILL:
    - FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING/INITIAL BACKFILL MATERIAL SHALL CONFORM TO IDOT CA-11 OR CA-13 GRADATION.
    - FOR RIGID (D.I.) PIPE THE BEDDING/HAUNCHING/INITIAL BACKFILL SHALL MATCH THE TRENCH BACKFILL MATERIAL.
  - AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
  - PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS:
    - 1ST STAGE - PLACE & COMPACT TO TOP OF PIPE
    - 2ND STAGE - PLACE & COMPACT AT LEAST 12" OVER TOP OF PIPE
  - VOIDS LEFT BY SHEETING/BRACING WHEN REMOVED SHALL BE FILLED WITH FINE SAND AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. SHEETING TO BE LEFT IN PLACE WHEN SPECIFIED ON THE PLANS.
  - CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN.
  - THE COST FOR BEDDING SHALL BE INCLUDED IN THE COST OF PIPE INSTALLATION.

**TYPICAL TRENCH BACKFILL DETAILS & TRENCHING NOTES FOR PARKWAY AREAS AND PAVED AREAS**  
N.T.S.

FILE NAME = N:\Chicago\Heights\140418.0000\2\Mech\FSP\_140418.012\_022.SHT

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME = rbillings  
PLOT SCALE = 50'  
PLOT DATE = 1/10/2020

DESIGNED - JPC  
DRAWN - ROB  
CHECKED - JPC  
DATE - 12/09/2019

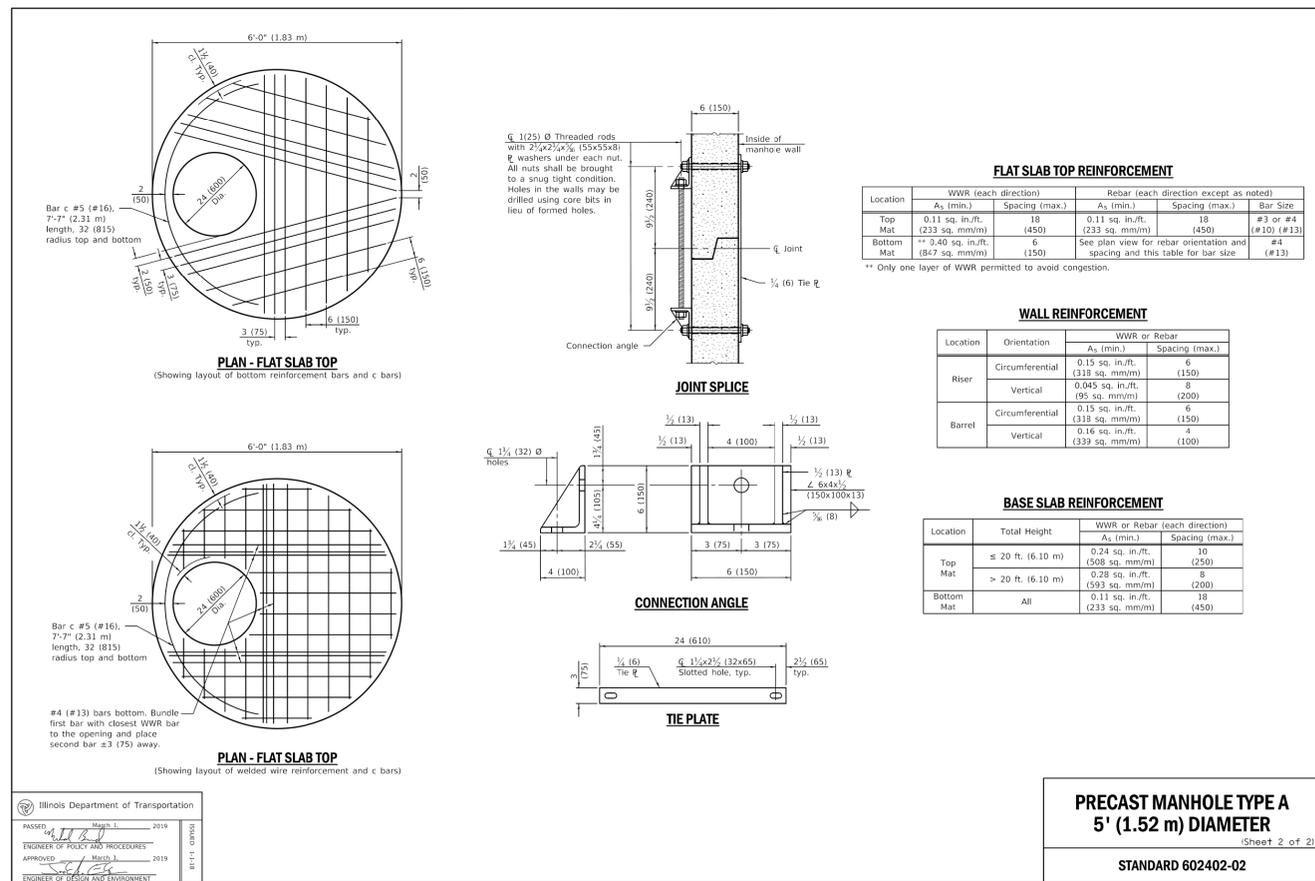
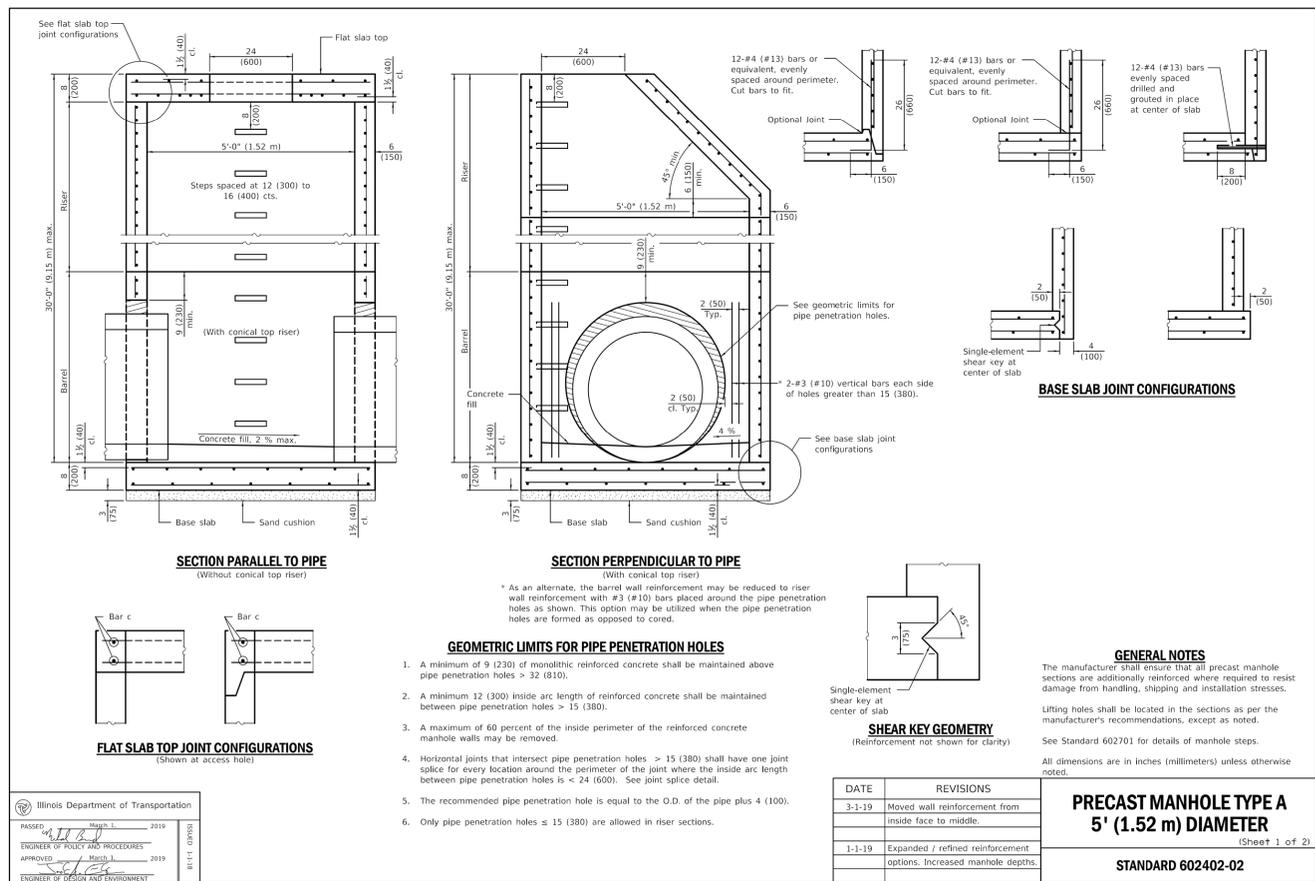
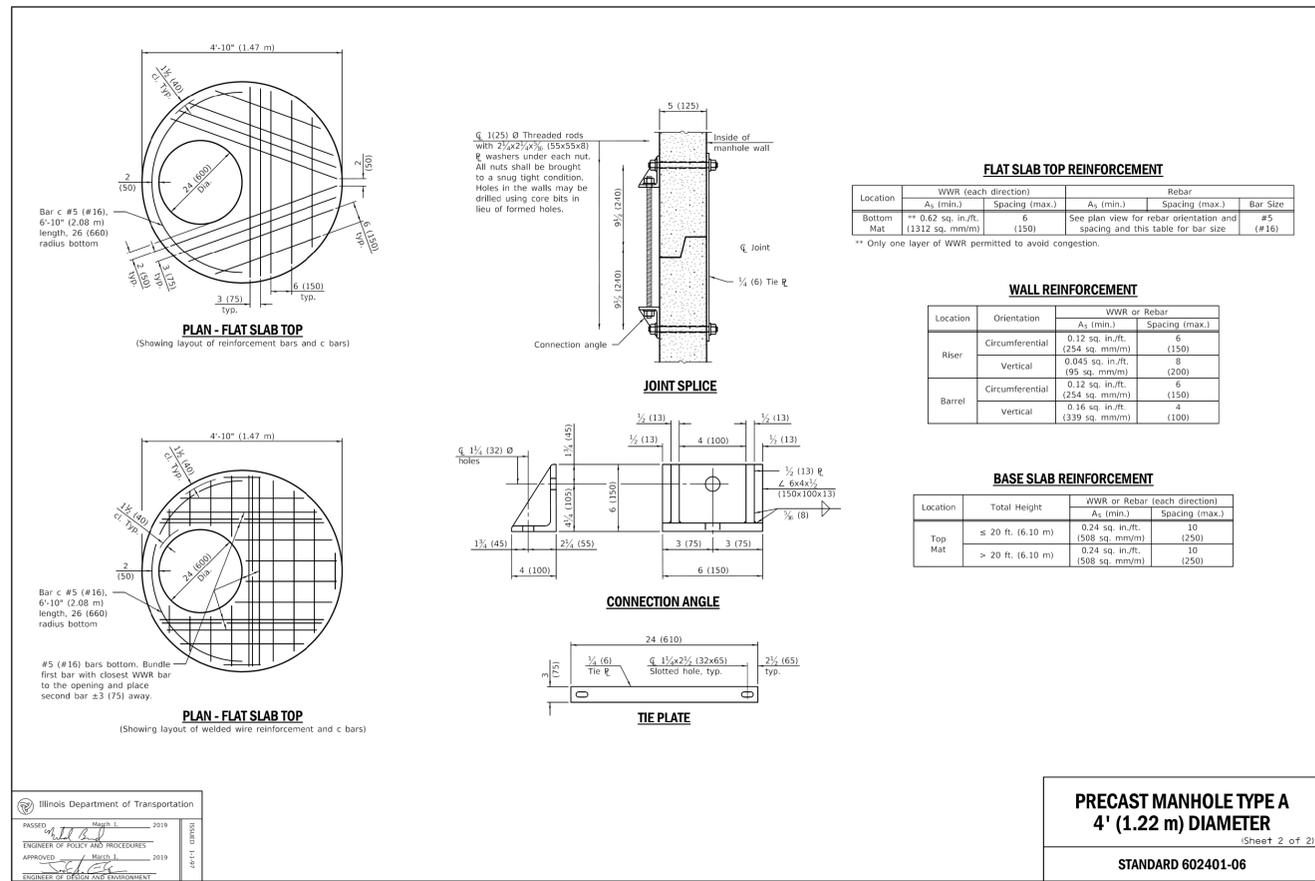
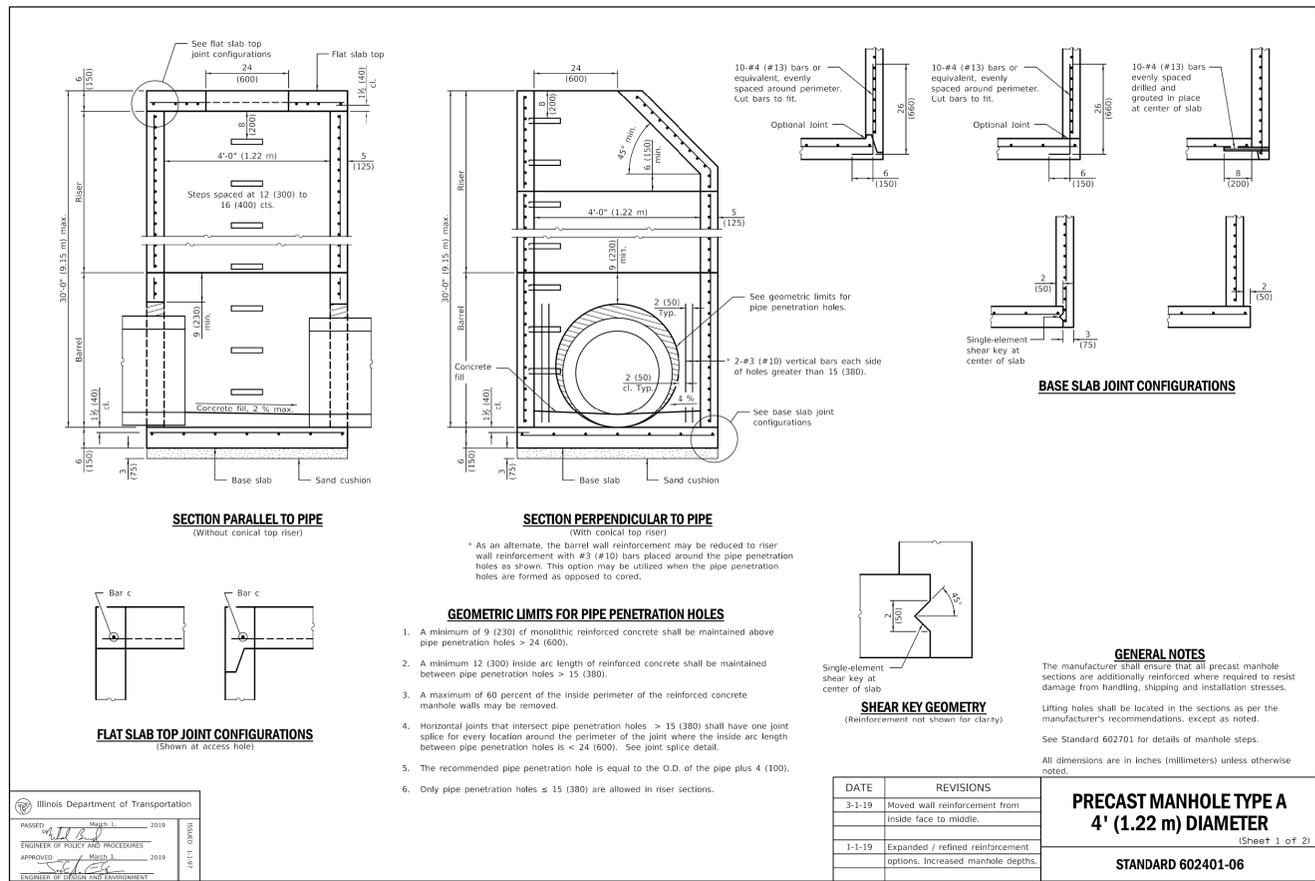
REVISED -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SANITARY SEWER SCHEDULE AND DETAILS**  
**CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	22
CONTRACT NO.			62G92	
ILLINOIS FED. AID PROJECT				



FILE NAME = N:\ChicagoHeights\140418.0000\2\Mech\CDT\_140418.012\_04.SHT

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

USER NAME = rbillings  
DESIGNED - JPC  
DRAWN - ROB  
CHECKED - JPC  
DATE - 12/13/2019

REVISIONS  
REVISED -  
REVISED -  
REVISED -  
REVISED -

DATE - 12/09/2019

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

**SANITARY DETAILS**  
**CHICAGO ROAD OVER THORN CREEK TRIBUTARY**  
SCALE: SHEET OF SHEETS STA. TO STA.

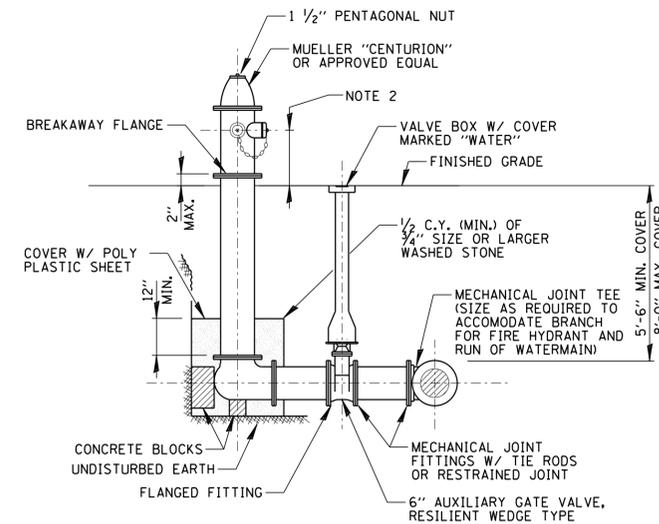
F.A.U. RT. - 2860  
SECTION - 2018-055-CR  
COUNTY - COOK  
TOTAL SHEETS - 67  
SHEET NO. - 23  
CONTRACT NO. - 62G92  
ILLINOIS FED. AID PROJECT

WATER MAIN REMOVAL, 14" DIA.		TOTAL (FT)	138
FROM STATION	OFFSET	TO STATION	OFFSET
150+58	30.5' RT	149+30	29.0' RT
SUBTOTAL (FT)			138

WATER MAIN SUMMARY		
PAY ITEM #	PIPE DESCRIPTION	FOOT
56103350	WATERMAIN IN CASING PIPE, DUCTILE IRON, 14"	80
	DUCTILE IRON WATERMAIN, 14" DIA.	138

WATER MAIN STRUCTURE SCHEDULE					
STRUCTURE NO.	STATION	OFFSET	STRUCTURE TYPE	RIM ELEVATION	BOTTOM ELEVATION
S201	150+58	30.5' RT	VALVE VAULT, 5' DIA., TYPE 1 FRAME, CLOSED LID	644.50	638.00
S202	149+30	29.0' RT	VALVE VAULT, 5' DIA., TYPE 1 FRAME, CLOSED LID	643.50	637.00

WATER MAIN SCHEDULE							
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE (DIA) (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE/PIPE	TRENCH BACKFILL (CU YD)
P201	WATER MAIN, DUCTILE IRON	14	218	N/A	S201	S202	170



- NOTES:
1. PROVIDE 6 INCH TO 24 INCH SPACER BETWEEN AUXILIARY VALVE AND HYDRANT BARREL.
  2. PROVIDE 18 INCHES TO 24 INCHES CLEARANCE BETWEEN NOZZLE AND FINISHED GRADE.
  3. MINIMUM NOZZLE SIZES SHALL INCLUDE TWO 2-1/2" AND ONE 4-1/2".
  4. PROVIDE 2 FOOT DIAMETER BY 2 FEET DEEP DRAINAGE PIT AROUND AND ADJACENT FIRE HYDRANT, FILLED WITH WASHED STONE.
  5. THE MAIN VALVE SHALL HAVE A DIAMETER OF 5-1/4 INCHES AND SHALL OPEN IN A COUNTERCLOCKWISE DIRECTION.
  6. PAINT HYDRANT YELLOW.

### FIRE HYDRANT INSTALLATION

N.T.S.

**PLAN - FLAT SLAB TOP**  
(Showing layout of bottom reinforcement bars and c bars)

FLAT SLAB TOP REINFORCEMENT				
Location	WWR (each direction)		Rebar (each direction except as noted)	
	A <sub>s</sub> (min.)	Spacing (max.)	A <sub>s</sub> (min.)	Spacing (max.)
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)
Bottom Mat	0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	0.29 sq. in./ft. (593 sq. mm/m)	9 (200)

\* Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT		
Orientation	WWR or Rebar	
	A <sub>s</sub> (min.)	Spacing (max.)
Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT			
Location	Total Height	WWR or Rebar (each direction)	
		A <sub>s</sub> (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
Bottom Mat	> 20 ft. (6.10 m)	0.29 sq. in./ft. (593 sq. mm/m)	9 (200)

**BASE SLAB JOINT CONFIGURATIONS**

**SHEAR KEY GEOMETRY**  
(Reinforcement not shown for clarity)

**PRECAST VALVE VAULT TYPE A**  
**5' (1.52 m) DIAMETER**  
(Sheet 2 of 2)

**STANDARD 602506-02**

**PLAN - FLAT SLAB TOP**  
(Showing layout of welded wire reinforcement and c bars)

**PLAN - FLAT SLAB TOP**  
(Showing layout of welded wire reinforcement and c bars)

**GENERAL NOTES**

Use this standard for water mains ≥ 10 (250).

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

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

DATE	REVISIONS
3-1-19	Moved wall reinforcement from inside face to middle.
1-1-19	Expanded / refined reinforcement options. Increased vault depths.

**PRECAST VALVE VAULT TYPE A**  
**5' (1.52 m) DIAMETER**  
(Sheet 1 of 2)

**STANDARD 602506-02**

**SECTION THRU VALVE VAULT**  
(Without conical top)

**SECTION THRU VALVE VAULT**  
(With conical top)

**SECTION THRU VALVE VAULT**  
(With concentric conical top)

**FLAT SLAB TOP JOINT CONFIGURATIONS**  
(Shown at access hole)

**GENERAL NOTES**

Use this standard for water mains ≥ 10 (250).

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

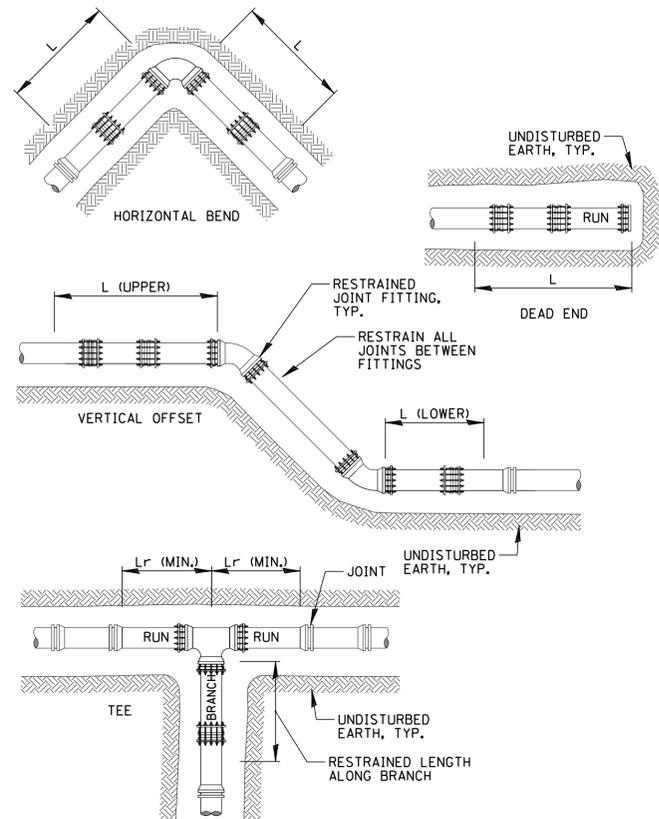
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
3-1-19	Moved wall reinforcement from inside face to middle.
1-1-19	Expanded / refined reinforcement options. Increased vault depths.

**PRECAST VALVE VAULT TYPE A**  
**5' (1.52 m) DIAMETER**  
(Sheet 1 of 2)

**STANDARD 602506-02**

FILE NAME = N:\ChicagoHeights\140418.0000\2\Mech\DDT\_140418.012\_02.SHT



PIPE SIZE	HORIZONTAL BEND			TEE	DEAD END
	90°	45°	22.5°		
3"	6 FT.	3 FT.	2 FT.	9 FT.	12 FT.
4"	7 FT.	3 FT.	2 FT.	12 FT.	15 FT.
6"	10 FT.	4 FT.	2 FT.	17 FT.	21 FT.
8"	13 FT.	6 FT.	3 FT.	24 FT.	27 FT.
10"	15 FT.	7 FT.	3 FT.	29 FT.	32 FT.
12"	18 FT.	8 FT.	4 FT.	35 FT.	38 FT.

PIPE SIZE	HORIZONTAL BEND			TEE	DEAD END
	90°	45°	22.5°		
3"	8 FT.	4 FT.	2 FT.	16 FT.	21 FT.
4"	9 FT.	4 FT.	2 FT.	18 FT.	23 FT.
6"	12 FT.	5 FT.	3 FT.	27 FT.	32 FT.
8"	16 FT.	7 FT.	3 FT.	37 FT.	42 FT.
10"	18 FT.	8 FT.	4 FT.	45 FT.	50 FT.
12"	22 FT.	9 FT.	5 FT.	54 FT.	59 FT.

**NOTES:**

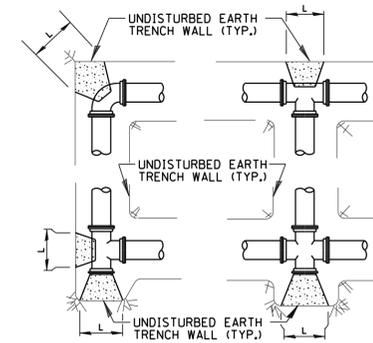
- ALL JOINTS WITHIN LENGTH "L" OF FITTING SHALL BE RESTRAINED.
- PLACE RESTRAINED JOINT AGAINST UNDISTURBED EARTH. IF PLACED AGAINST BACKFILL THE BEARING SURFACE AND UNDISTURBED SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY.
- CONTRACTOR SHALL FURNISH AND INSTALL RESTRAINED JOINT FITTINGS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- THE RESTRAINED LENGTH TABLE IS BASED ON TYPE 4 LAYING CONDITION, 100 PSI (MAX) INTERNAL PIPE PRESSURE, 1.5 SAFETY FACTOR AND SILTY GRAVEL MIXTURE.
- PIPE DEPTH SHALL BE A MINIMUM OF 42" UNLESS OTHERWISE SHOWN.

**RESTRAINED JOINT FITTING**

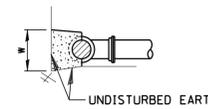
N.T.S.

**BEARING SURFACE AREA TABLE**

PIPE SIZE	PIPE BEND IN DEGREES				PLUG OR TEE
	90°	45°	22.5°	11.25°	
4"	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.
6"	2 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.	1 SQ. FT.
8"	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	1 SQ. FT.	3 SQ. FT.
10"	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	1 SQ. FT.	5 SQ. FT.
12"	10 SQ. FT.	5 SQ. FT.	3 SQ. FT.	2 SQ. FT.	7 SQ. FT.
14"	13 SQ. FT.	7 SQ. FT.	4 SQ. FT.	2 SQ. FT.	9 SQ. FT.
16"	17 SQ. FT.	9 SQ. FT.	5 SQ. FT.	2 SQ. FT.	12 SQ. FT.
18"	22 SQ. FT.	12 SQ. FT.	6 SQ. FT.	3 SQ. FT.	13 SQ. FT.
20"	27 SQ. FT.	14 SQ. FT.	7 SQ. FT.	4 SQ. FT.	16 SQ. FT.
30"	60 SQ. FT.	32 SQ. FT.	17 SQ. FT.	8 SQ. FT.	35 SQ. FT.
36"	86 SQ. FT.	47 SQ. FT.	24 SQ. FT.	12 SQ. FT.	51 SQ. FT.
72"	345 SQ. FT.	187 SQ. FT.	95 SQ. FT.	48 SQ. FT.	204 SQ. FT.



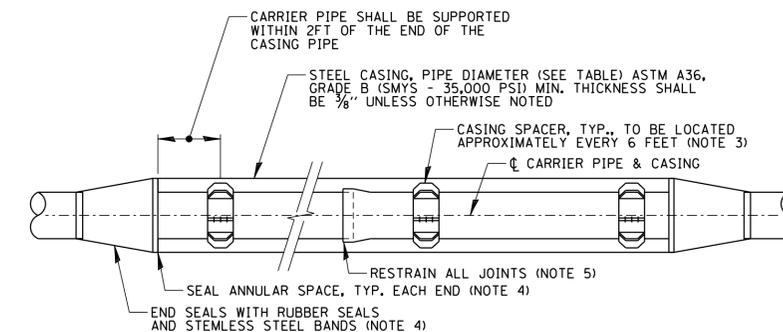
**TYPICAL PLAN**



**TYPICAL SECTIONS**

**TYPICAL FORCEMAIN THRUST BLOCK INSTALLATIONS**

N.T.S.



CARRIER PIPE DIA.	RECOMMENDED MIN. STEEL CASING PIPE DIA.
4"	10"
6"	12"
8"	16"
10"	18"
12"	20"
14"	24"
16"	24"
18"	30"
20"	30"
24"	36"
30"	42"
36"	48"
42"	54"
48"	60"

**NOTES:**

- STEEL CASING SHALL BE ONE CONTINUOUS SECTION.
- SMYS-SPECIFIC MINIMUM YIELD STRENGTH.
- CASING SPACERS SHALL BE CASCADE MODEL CCS OR APPROVED EQUAL.
- CASING END SEALS TO BE CASCADE MODEL CCES END SEALS OR APPROVED EQUAL. MORTARING OF CASING ENDS SUBJECT ONLY TO PRE-APPROVAL.
- FOR DIP WATERMAIN, ALL PUSH JOINTS IN CASING SHALL HAVE "FIELD LOK" GASKETS AS MANUFACTURED BY AMERICAN, U.S. PIPE OR EQUAL.

**STEEL CASING PIPE DETAIL**

N.T.S.

FILE NAME = N:\ChicagoHeights\140418.0000\2\Mech\CDT\_140418.012\_03.SHT

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

USER NAME = rbillings	DESIGNED - JPC	REVISED -
PLOT SCALE = 50'	DRAWN - ROB	REVISED -
PLOT DATE = 12/13/2019	CHECKED - JPC	REVISED -
	DATE - 12/09/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

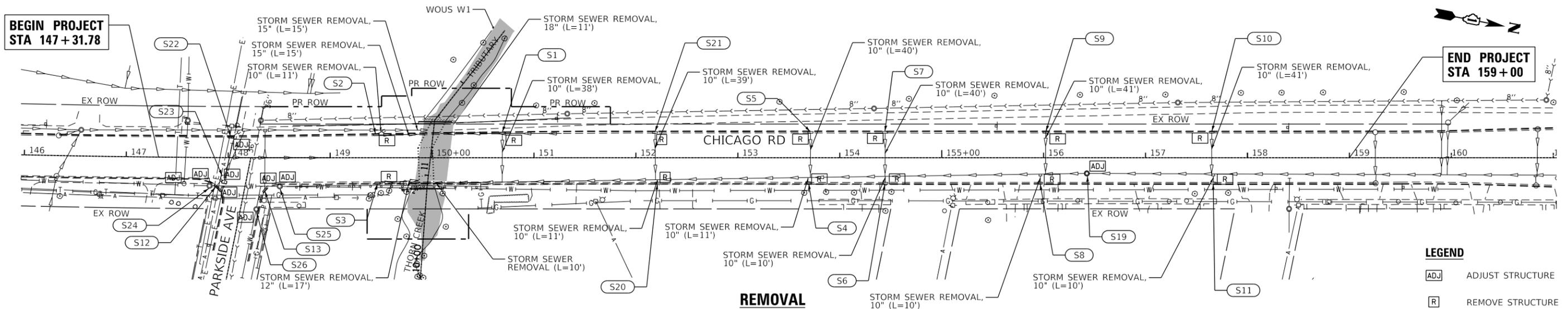
**WATER MAIN DETAILS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	25
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	NO. _____
	NOTE BOOK
	NO. _____
	STRUCTURE
	NOTATION
	CPKWD

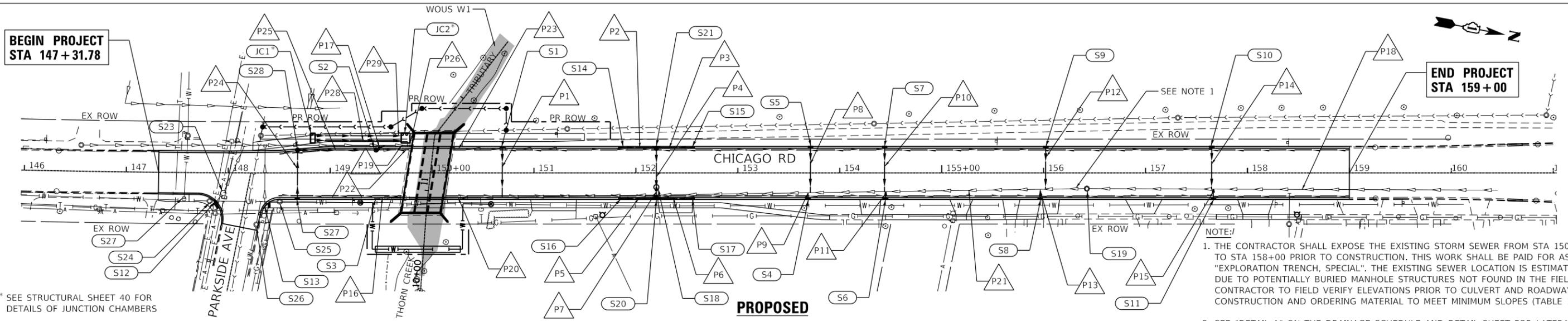
DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES
	CHECKED
	NO. _____
	STRUCTURE
	NOTATION
	CPKWD



**LEGEND**

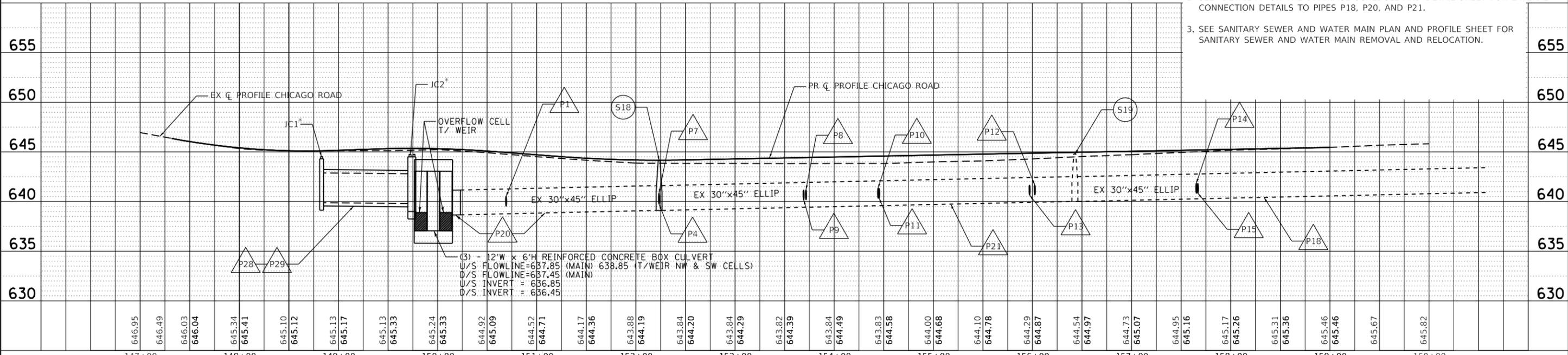
ADJ ADJUST STRUCTURE

R REMOVE STRUCTURE



**NOTE:**

1. THE CONTRACTOR SHALL EXPOSE THE EXISTING STORM SEWER FROM STA 150+10 TO STA 158+00 PRIOR TO CONSTRUCTION. THIS WORK SHALL BE PAID FOR AS "EXPLORATION TRENCH, SPECIAL". THE EXISTING SEWER LOCATION IS ESTIMATED DUE TO POTENTIALLY BURIED MANHOLE STRUCTURES NOT FOUND IN THE FIELD. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CULVERT AND ROADWAY CONSTRUCTION AND ORDERING MATERIAL TO MEET MINIMUM SLOPES (TABLE 1).
2. SEE "DETAIL A" ON THE DRAINAGE SCHEDULE AND DETAIL SHEET FOR LATERAL CONNECTION DETAILS TO PIPES P18, P20, AND P21.
3. SEE SANITARY SEWER AND WATER MAIN PLAN AND PROFILE SHEET FOR SANITARY SEWER AND WATER MAIN REMOVAL AND RELOCATION.



USER NAME = JMT	DESIGNED - JMT	REVISED -
PLLOT SCALE = 100.0000' / in.	DRAWN - JH	REVISED -
PLLOT DATE = 1/17/2020	CHECKED - JMT	REVISED -
	DATE - 08/16/2019	REVISED -

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

**DRAINAGE AND UTILITY PLAN AND PROFILE**  
**CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	26
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

55100400 STORM SEWER REMOVAL 10"					TOTAL (FT)	306
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTAL (FT)		
149+47	23.7' LT	149+59	28.9' LT	15		
150+69	13.4' RT	150+69	24.7' LT	38		
152+19	13.9' RT	152+19	25.4' LT	39		
152+21	13.9' RT	152+21	25.3' RT	11		
153+69	14.6' RT	153+69	25.5' RT	11		
153+71	14.6' RT	153+71	25.6' LT	40		
154+45	14.9' RT	154+45	25.1' RT	10		
154+45	14.7' RT	154+45	25.4' LT	40		
155+97	15.2' RT	155+97	25.3' RT	10		
156+02	15.2' RT	156+02	25.4' LT	41		
157+65	15.8' RT	157+65	25.4' LT	41		
157+67	15.8' RT	157+67	25.4' RT	10		

X5510100 STORM SEWER REMOVAL					TOTAL (FT)	10
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTAL (FT)		
150+03	13.1' RT	150+69	16.3' RT	10		

55100500 STORM SEWER REMOVAL, 12"					TOTAL (FT)	17
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTAL (FT)		
149+72	22.5' LT	149+89	22.1' LT	17		

55100700 STORM SEWER REMOVAL, 15"					TOTAL (FT)	30
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTAL (FT)		
149+80	23.0' LT	149+95	23.0' LT	15		
149+80	27.0' LT	149+95	273.0' LT	15		

55100900 STORM SEWER REMOVAL, 18"					TOTAL (FT)	11
FROM STATION	OFFSET	TO STATION	OFFSET	SUBTOTAL (FT)		
150+08	23.7' LT	150+19	23.7' LT	11		

STORM SEWER SUMMARY		
PAY ITEM #	PIPE DESCRIPTION	FOOT
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	537
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	170
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	42

DRAINAGE STRUCTURE SCHEDULE								
STRUCTURE NO.	STATION	*OFFSET	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION			
					NORTH	EAST	SOUTH	WEST
S1	150+69	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.58		640.58		
S2	149+45	24.0' LT	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3V FRAME AND GRATE	644.96	640.96		640.96	
S4	153+69	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.07			640.09	
S5	153+71	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.07		640.19		
S6	154+45	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.21			640.26	
S7	154+44	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.21		640.37		
S8	155+97	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.50			640.62	
S9	156+02	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.51		640.75		
S10	157+65	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.83		640.95		
S11	157+67	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.84			640.84	
S14	151+85	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	643.86	639.86			
S15	152+55	24.0' LT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	643.85			639.85	
S16	151+85	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	643.86	639.86			
S17	152+55	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	643.85		639.85		
S18	152+23	13.9' RT	MANHOLES, TYPE A, 8' DIAMETER, TYPE 1 FRAME, CLOSED LID	643.96	638.95	639.68	638.95	639.58
S20	152+23	24.0' RT	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3V FRAME AND GRATE	643.81	639.72		639.73	639.72
S21	152+23	24.0' LT	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3V FRAME AND GRATE	643.81	639.72	639.72	639.73	
S27	148+68	24.0' RT	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	644.74			644.74	
S28	148+68	21.6' LT	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3V FRAME AND GRATE	644.78	641.23	641.23		

\* OFFSET FOR DRAINAGE STRUCTURES IN CURB & GUTTER IS TO EDGE OF PAVEMENT. ALL OTHER OFFSETS ARE TO THE CENTER OF THE STRUCTURE.

60255500 MANHOLES TO BE ADJUSTED W/ NEW TYPE 1 FRAME, CLOSED LID					TOTAL (EACH)	1
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	INVERT ELEVATION	SUBTOTAL (EACH)	
S19	156+42	15.3' RT	644.72	INV (N) 639.94 INV (S) 639.94	1	

60500060 REMOVING INLETS				TOTAL (EACH)	16
STRUCTURE NO.	STATION	OFFSET	SUBTOTAL (EACH)		
S1	150+69	24.0' LT	1		
S2	149+45	24.0' LT	1		
S4	153+69	24.0' RT	1		
S5	153+71	24.0' LT	1		
S6	154+45	24.0' RT	1		
S7	154+44	24.0' LT	1		
S8	155+97	24.0' RT	1		
S9	156+02	24.0' LT	1		
S10	157+65	24.0' LT	1		
S11	157+65	24.0' RT	1		
S14	151+85	24.0' LT	1		
S15	152+55	24.0' LT	1		
S16	151+85	24.0' RT	1		
S17	152+55	24.0' RT	1		
S20	152+21	24.9' RT	1		
S21	152+19	24.8' LT	1		

60260505 INLETS TO BE ADJUSTED W / NEW TYPE 3V FRAME AND GRATE				TOTAL (EACH)	1
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S3	149+46	24.8' RT	644.95	1	

60260300 INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID				TOTAL (EACH)	1
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S22	148+02	18.6' LT	645.10	1	

60250500 CATCH BASINS TO BE ADJUSTED W / NEW TYPE 1 FRAME, CLOSED LID				TOTAL (EACH)	1
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S23	147+95	19.7' RT	645.16	1	

60260100 INLETS TO BE ADJUSTED***				TOTAL (EACH)	2
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S12	147+89	28.2' RT	645.10	1	
S13	148+36	31.7' RT	645.91	1	

\*\*\* S12 AND S13 ADJUSTED W/ NEW TYPE 23 FRAME & GRATE DURING MAINTENANCE OF PEDESTRIAN ACCESS

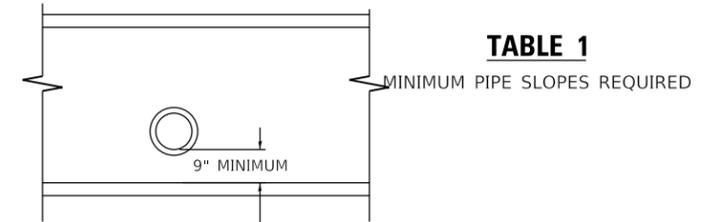
60265900 VALVE VAULTS TO BE ADJUSTED W / NEW TYPE 1 FRAME, CLOSED LID****				TOTAL (EACH)	1
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S26	148+50	28' RT		1	

60265900 VALVE VAULTS TO BE ADJUSTED****				TOTAL (EACH)	3
STRUCTURE NO.	STATION	OFFSET	RIM ELEVATION	SUBTOTAL (EACH)	
S24	147+82	28' RT	645.86	1	
S25	148+28	50' RT	646.66	1	
S27	147+57	28' RT		1	

\*\*\*\* S24 AND S25 ADJUSTED W/ NEW TYPE 1 FRAME, CLOSED LID DURING MAINTENANCE OF PEDESTRIAN ACCESS

DIAMETER d (inches)	DISCHARGE Q (cfs)	SLOPE (feet per foot)		
		n = 0.012	n = 0.013	n = 0.024
8	1.05	0.0064	0.0075	0.026
10	1.64	0.0048	0.0056	0.019
12	2.36	0.0037	0.0044	0.015
15	3.68	0.0028	0.0032	0.011
18	5.30	0.0022	0.0026	0.0087
21	7.22	0.0018	0.0021	0.0071
24	9.43	0.0015	0.0017	0.0059
27	11.9	0.0013	0.0015	0.0051
30	14.7	0.0011	0.0013	0.0044
33	17.8	0.00097	0.0011	0.0039
36	21.2	0.00086	0.0010	0.0034
42	28.9	0.00070	0.00082	0.0028
48	37.7	0.00059	0.00069	0.0023
54	47.7	0.00050	0.00059	0.0020
60	58.9	0.00044	0.00051	0.0017
66	71.3	0.00038	0.00045	0.0015
72	84.8	0.00024	0.00040	0.0014

Slopes Necessary to Create Minimum Velocity of 3 ft/sec In Pipes Flowing Full Table 8-008.04



DETAIL A

LATERAL CONNECTION DETAIL FOR P18, P20, & P21

STORM SEWER SCHEDULE							
PIPE NO.	PIPE DESCRIPTION	PIPE SIZE (DIA) (IN)	LENGTH (FT)	SLOPE (%)	FROM STRUCTURE	TO STRUCTURE/PIPE	TRENCH BACKFILL (CU YD)
P1	STORM SEW CL A 2	12	38	EX	S1	P20	7.8
P2	STORM SEW CL A 1	12	36	0.37	S14	S21	5.1
P3	STORM SEW CL A 1	12	36	0.37	S15	S21	6.2
P4	STORM SEW CL A 1	12	36	0.37	S21	S18	7.0
P5	STORM SEW CL A 1	12	36	0.37	S16	S20	6.2
P6	STORM SEW CL A 1	12	36	0.37	S17	S20	6.2
P7	STORM SEW CL A 1	12	10	0.37	S20	S18	1.8
P8	STORM SEW CL A 1	12	40	EX	S5	P21	6.9
P9	STORM SEW CL A 1	12	11	EX	S4	P21	2.0
P10	STORM SEW CL A 1	12	40	EX	S7	P21	6.9
P11	STORM SEW CL A 1	12	10	EX	S6	P21	1.8
P12	STORM SEW CL A 1	12	41	EX	S9	P21	6.7
P13	STORM SEW CL A 1	12	10	EX	S8	P18	1.7
P14	STORM SEW CL A 1	12	42	EX	S10	P18	7.7
P15	STORM SEW CL A 1	12	10	EX	S11	P18	1.8
P16	EX 12" STORM SEW	EX 12	8	EX	S3	PR CULVERT	4.4
P17	STORM SEW CL A 1	12	10	EX	S2	P19	2.4
P18	EX 30"x45" ELLIP.	EX 30"x45" ELLIP.	8	EX	EX MH	S19	21.8**
P19	EX 15" STORM SEW	EX 15	8	EX	EX MH	PR CULVERT	9.2
P20	EX 30"x45" ELLIP.	EX 30"x45" ELLIP.	8	EX	S18	PR CULVERT	121.1**
P21	EX 30"x45" ELLIP.	EX 30"x45" ELLIP.	8	EX	S19	S18	108.2**
P22	EX 15" STORM SEW	EX 15	8	EX	EX MH	PR CULVERT	3.8
P23	EX 18" STORM SEW	EX 18	8	EX	EX MH	PR CULVERT	3.7
P24	STORM SEW CL A 1	12	45	0.37	S27	S28	5.0
P25	STORM SEW CL A 1	12	73	0.37	S28	S2	10.4
P26	STORM SEW CL A 2	12	3.8	0	JC2	PR CULVERT	0
P27	STORM SEW CL A 1	12	1.5	0	JC2	JC2	0
P28	STORM SEW CL A 1	36	85	0.10	JC1	JC2	40
P29	STORM SEW CL A 1	36	85	0.10	JC1	JC2	40

REINSTATE EXISTING STORM SEWER (P16, P19, P20, P22, AND P23) THRU PROPOSED CULVERT WALLS. COST IS INCLUDED IN BOX CULVERT PAY ITEM.

\*\* COST INCLUDED IN EXPLORATION TRENCH, SPECIAL.



USER NAME = JENT	DESIGNED - JMT	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN - IH	REVISED -
PLOT DATE = 1/17/2020	CHECKED - JMT	REVISED -
	DATE - 08/16/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

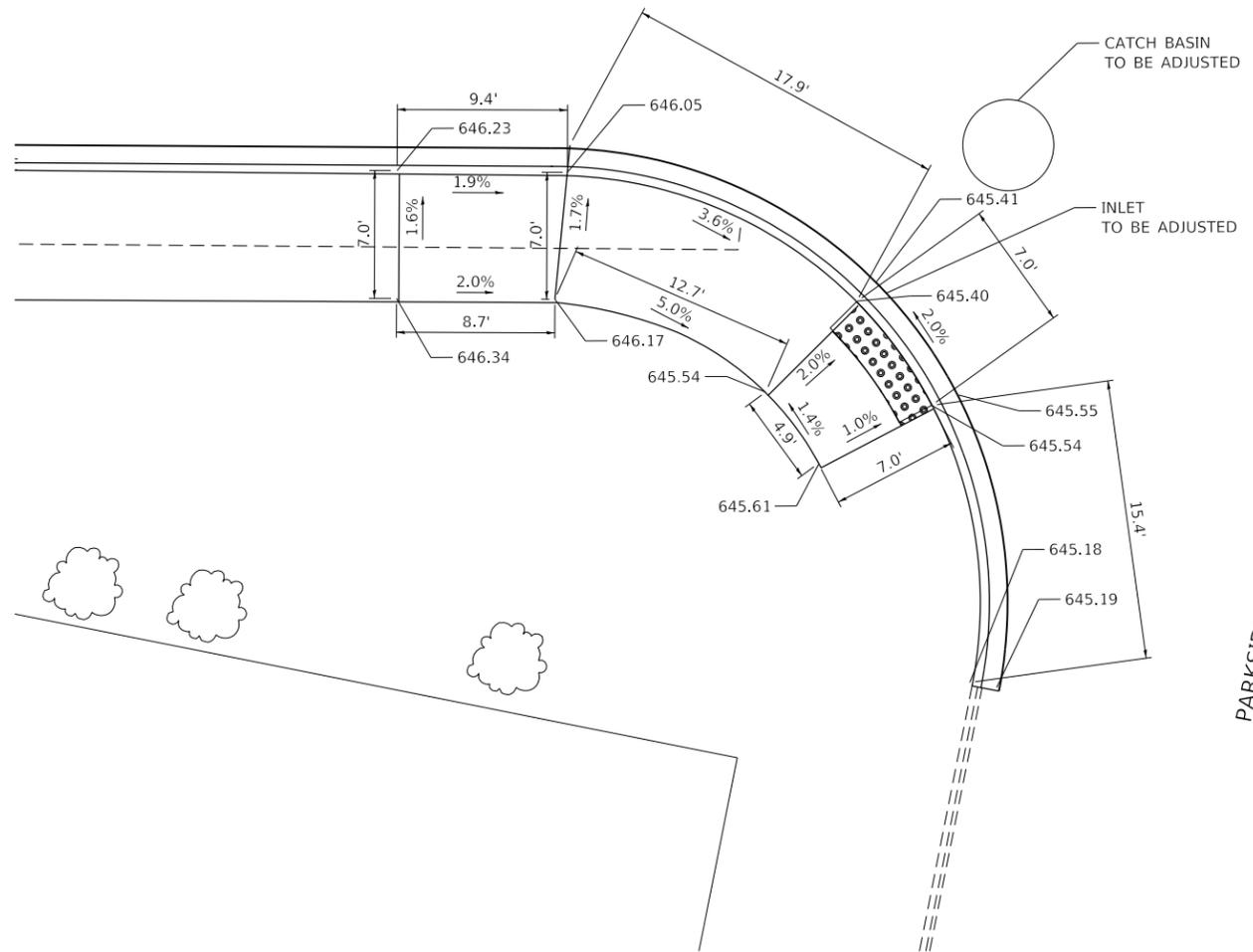
DRAINAGE SCHEDULE AND DETAILS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	27
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				



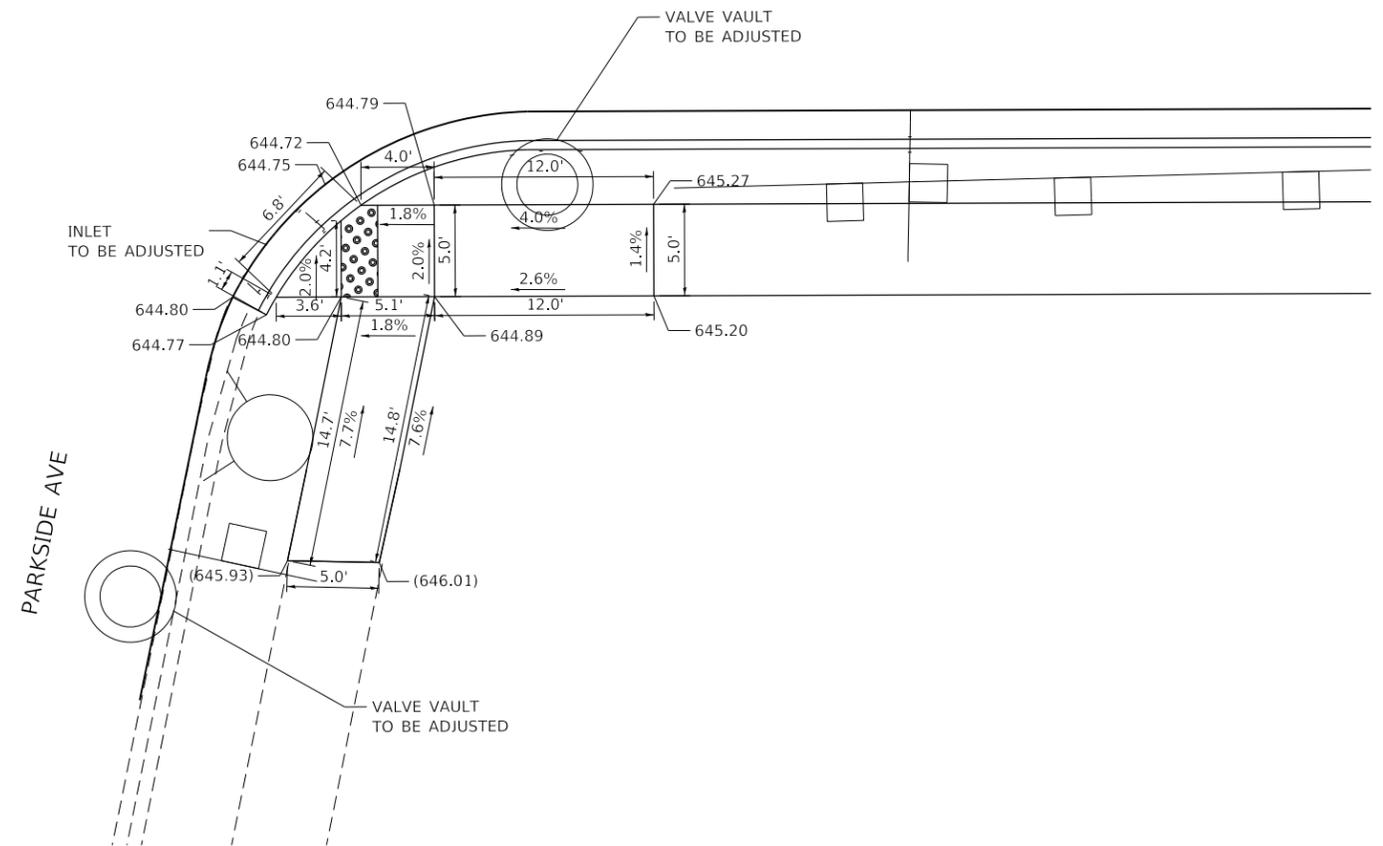
CHICAGO RD



PARKSIDE AVE



CHICAGO RD



PARKSIDE AVE

**LEGEND**

-  PROPOSED SIDEWALK
-  PROPOSED SIDE CURB
-  ( ) EXISTING ELEVATION/SLOPE
-  EXISTING BRICK SIDEWALK TO REMAIN
-  T.O.C. TOP OF CURB
-  DETECTABLE WARNINGS
-  SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD
-  REMOVE AND REINSTALL BRICK PAVER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADA SIDEWALK RAMP DETAILS – PARKSIDE AVE  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

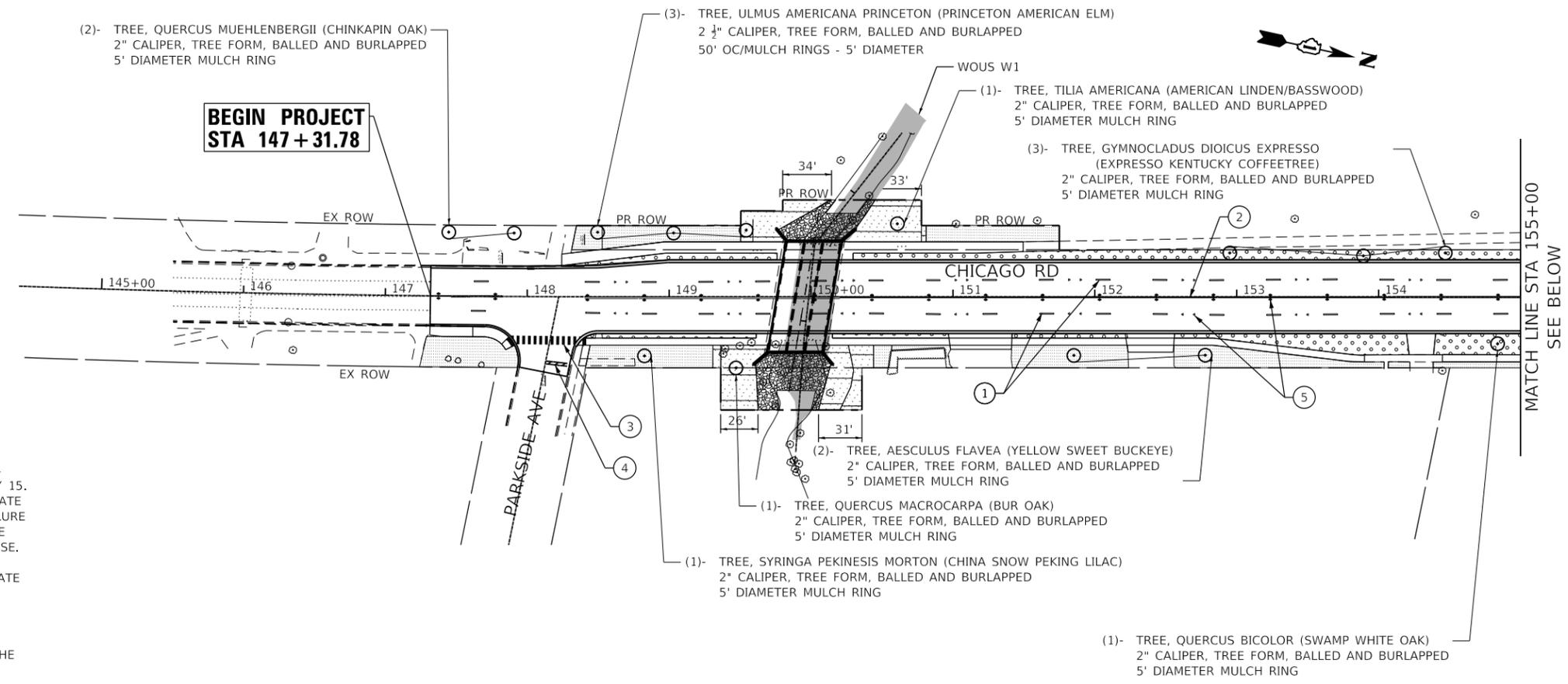
SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.



USER NAME = JENT	DESIGNED - LRC	REVISED -
	DRAWN - LRC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/16/2020	DATE - 08/16/2019	REVISED -

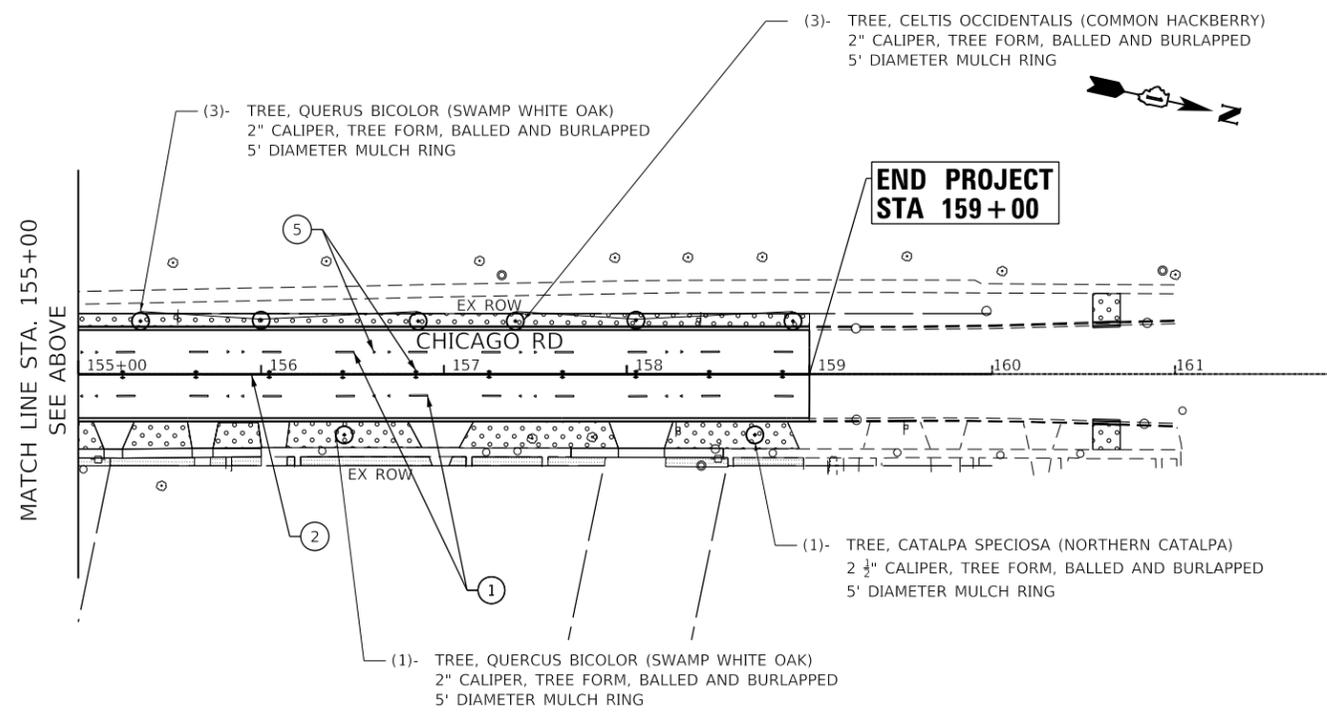
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	28
CONTRACT NO. 62G92				

ILLINOIS FED. AID PROJECT



**NOTES:**

1. SEE IDOT DISTRICT ONE HIGHWAY STANDARD TC-13 FOR PAVEMENT STRIPING DETAILS.
2. SEE IDOT DISTRICT ONE HIGHWAY STANDARD TC-11 FOR PLACEMENT OF RAISED REFLECTIVE PAVEMENT MARKERS.
3. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 5A (MODIFIED) SHALL BE FROM OCTOBER 15 TO MAY 15. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
4. TREE LOCATIONS MAY BE ADJUSTED IF A CONFLICT ARISES. COORDINATE WITH ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171.
5. SELECTIVE CLEARING FOR BRUSH, SHRUB, DEBRIS, AND SMALL TREE REMOVAL ADJACENT TO THORN CREEK WILL BE AS DIRECTED BY THE ENGINEER TO PROVIDE REQUIRED CLEAR SPACE TO ACCOMMODATE THE PROPOSED CULVERT REPLACEMENT AND INCIDENTAL WORK.



**PAVEMENT MARKING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE - 10' LINE, 30' SPACE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) @ 11" C-C
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE - 6' LINE, 2' SPACE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑤ RAISED REFLECTIVE PAVEMENT MARKER

**LANDSCAPING LEGEND**

- SEEDING, CLASS 4B (MODIFIED) AND 5B (MODIFIED) INTERPLANTED WITH PRAIRIE PLUGS W/ HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)
- SODDING
- SODDING, SALT TOLERANT



USER NAME = JENT	DESIGNED - LRC	REVISED -
DRAWN - IH	REVISED -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - JMT	REVISED -
PLOT DATE = 1/17/2020	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND LANDSCAPING PLANS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	29
CONTRACT NO.				62G92
ILLINOIS FED. AID PROJECT				

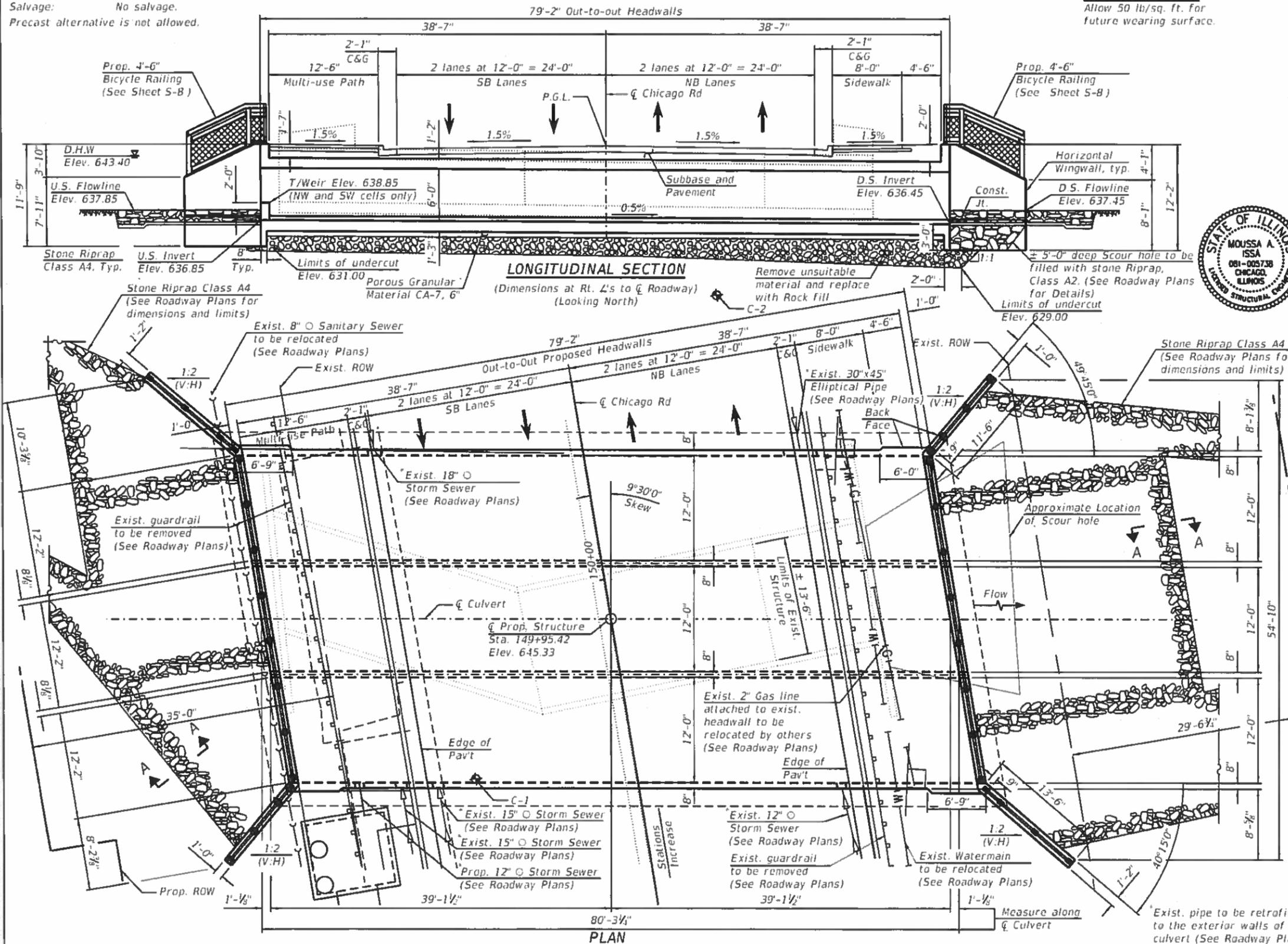
Bench Mark: NGS Monument with PID#ME1606 N 1,760,564.961 E 1,148,917.748 Elevation 712.39'.  
 Existing Structure: S.N. 016-1341 was originally constructed at an unknown time before 1948 as a cast-in-place single box culvert 13'-6" wide and 4'-0" high and 27'-9" long. Extensions were added to each side of the culvert in 1948 making it a 69'-6" long structure. The existing structure to be removed and replaced with a cast-in-place triple box culvert 12'-0" wide by 6'-0" high and 80'-3 1/2" long. Traffic will be detoured during construction.  
 Salvage: No salvage.  
 Precast alternative is not allowed.

**DESIGN SPECIFICATIONS**  
 2017 AASHTO LRFD Design Specifications, 8th edition.

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  psi (Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**NOTE:**  
 1. For General Notes, Index of Sheets, Total Bill of Material, Waterway Information Table, Profile Grade, and Section A-A see Sheet S-2

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



**APPROVED**  
 For Structural Adequacy Only  
*Moussa A. Issa*  
 Engineer of Bridges & Structures  
 SIGNED: *Moussa A. Issa*  
 DR. MOUSSA A. ISSA, S.E. IL. LIC. NO. 081-005738  
 EXPIRES 11-30-2020  
 DATE: 12/12/2019 FOR SHEETS S-1 THRU S-10 (TOTAL OF 10 SHEETS)

Boring	Station	Offset
C-1	149+80.00	19.2' Lt.
C-2	150+30.00	19.3' Rt.

**LEGEND:**  
 Soil Boring  
 Stone Riprap  
 Limits of Removal of Unsuitable Material



**GENERAL PLAN & ELEVATION**  
**CHICAGO ROAD OVER**  
**THORN CREEK TRIBUTARY**  
 F.A.U. RTE 2860 - SEC. 2018-055-CR  
**COOK COUNTY**  
**STATION 149+95.42**  
**S.N. 016-2305**

**GENERAL NOTES:**

1. It will be the responsibility of the Contractor to direct the stream flow during construction in order to keep the Construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of the Concrete Box Culverts.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. 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.
4. The Rock fill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rock fill.
5. Precast alternate is not allowed.

**INDEX OF SHEETS**

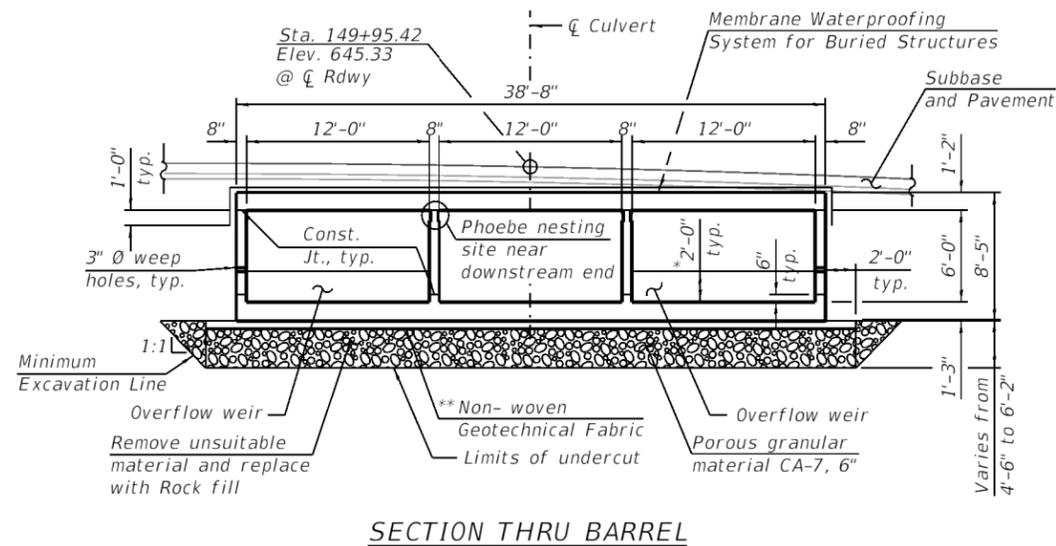
- S-01 General Plan and Elevation
- S-02 General Notes, Index of Sheets and Total Bill of Material
- S-03 Culvert Plan Top Slab Details
- S-04 Culvert Plan Bottom Slab Details
- S-05 Culvert Sections and Details (Sheet 1 of 3)
- S-06 Culvert Sections and Details (Sheet 2 of 3)
- S-07 Culvert Sections and Details (Sheet 3 of 3)
- S-08 Bicycle Railing Plan and Elevation
- S-09 Bicycle Railing Details
- S-10 Soil Boring Logs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	720
STONE RIPRAP, CLASS A4	SQ YD	286
FILTER FABRIC	SQ YD	286
REMOVAL OF EXISTING STRUCTURES	EACH	1
REINFORCEMENT BARS	POUND	87,690
BICYCLE RAILING	FOOT	126
NAME PLATES	EACH	1
CONCRETE BOX CULVERTS	CU YD	353.9
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	426
ROCK FILL	CU YD	811

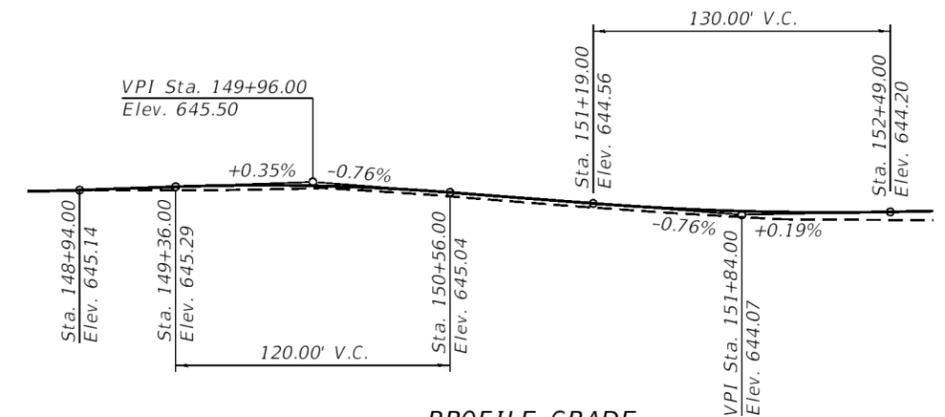
STATION 149+95.42  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.U. RTE 2860  
(CHICAGO ROAD)  
SECTION 2018-055-CR  
LOADING HL-93  
STRUCTURE NO. 016-2305

**NAME PLATE**  
See Std. 515001

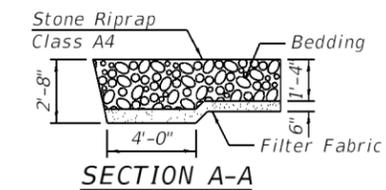


**SECTION THRU BARREL**

\*At upstream end, NW and SW cells only.  
\*\*Non-woven geotextile fabric shall conform to the requirement of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Cost included with Rock fill



**PROFILE GRADE**



**SECTION A-A**

**WATERWAY INFORMATION**

Exist. Overtopping Elev. = 644.01 at Sta. 152+00  
Drainage Area = 2.2 Square Miles Prop. Overtopping Elev. = 644.01 at Sta. 152+00

Flood Event	Freq. Yr.	Q C.F.S.	Opening - Sq. Ft.		Head - Ft.		Headwater Elev.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	375	50	156	642.8	1.0	0.0	643.8	642.8
Base	50	520	58	156	643.4	0.9	0.0	644.3	643.4
Scour Design Check	100	590	61	156	643.7	0.8	0.1	644.5	643.8
Overtop Exist.	200	640							
Overtop Prop.									
Max. Calc.	500	735	65	156	644.1	0.5	0.0	644.6	644.1

10-year velocity through the existing culvert = 7 ft/s  
10-year velocity through proposed culvert = 3 ft/s  
2 year flow rate (Q) = 280 cfs  
Estimated water surface elevation = 639.33 ft



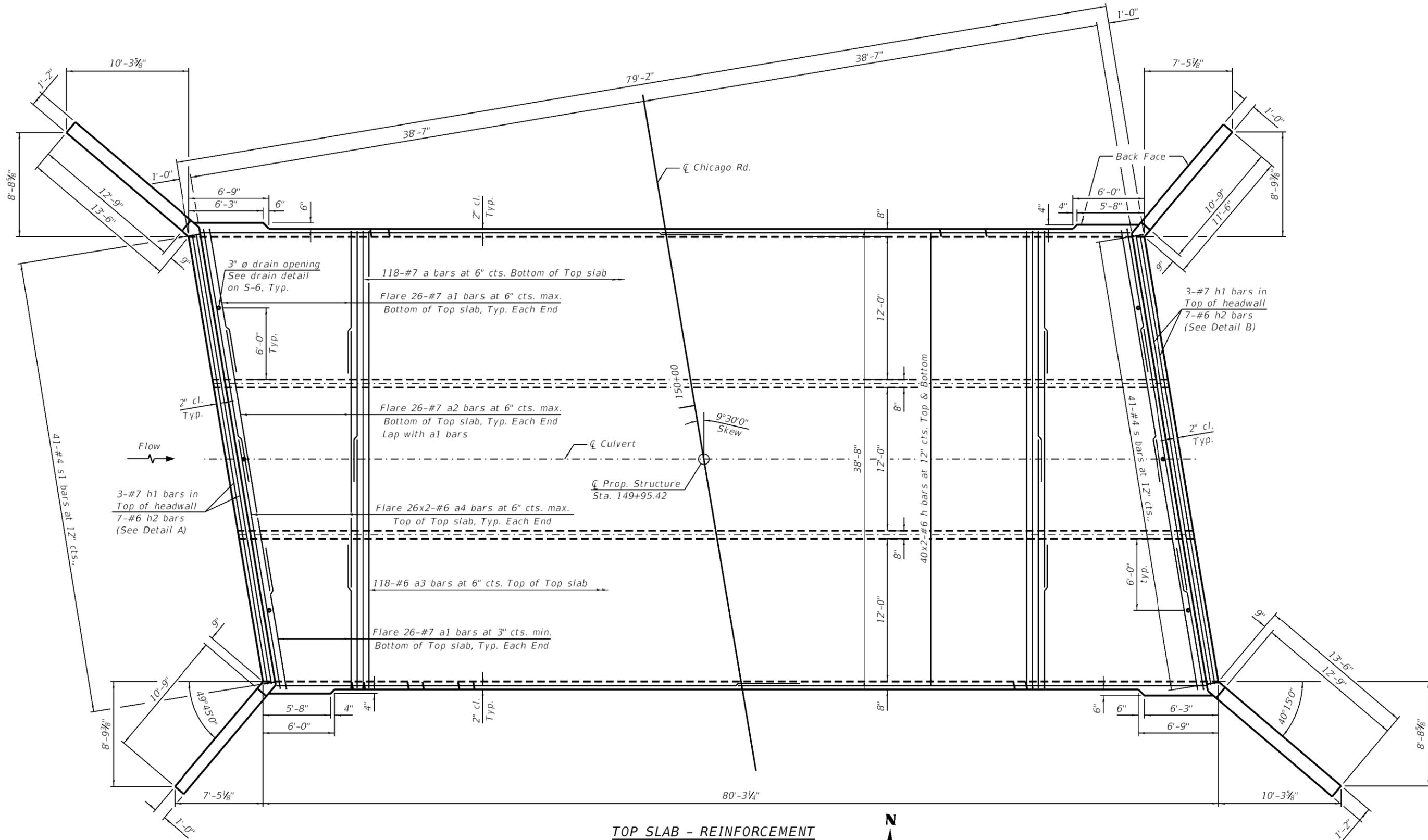
USER NAME =	DESIGNED - MAA, SK	REVISED -
PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - MAA, SK	REVISED -
	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL  
STRUCTURE NO. 016-2305**

SHEET S-2 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	31
CONTRACT NO. 62G92				
ILLINOIS		FED. AID PROJECT		



**TOP SLAB - REINFORCEMENT**



**NOTES**

1. For Notes, minimum Bar Laps Table, bar diagrams, and Bill of Material, see Sheet S-6 .
2. For bottom slab reinforcement, see Sheet S-4 .
3. For culvert and wingwall sections and details, and for Detail A and Detail B, see Sheet S-5 .

MODEL: Default  
 FILE NAME: P:\1710-746 IDOT District 1\WO 21 Chgo Rd @ Thorn Cr Trib\SHEET\0161341-62G92-SHT-003-TopSlabDet.dgn  
 12/13/2019 10:07:20 AM



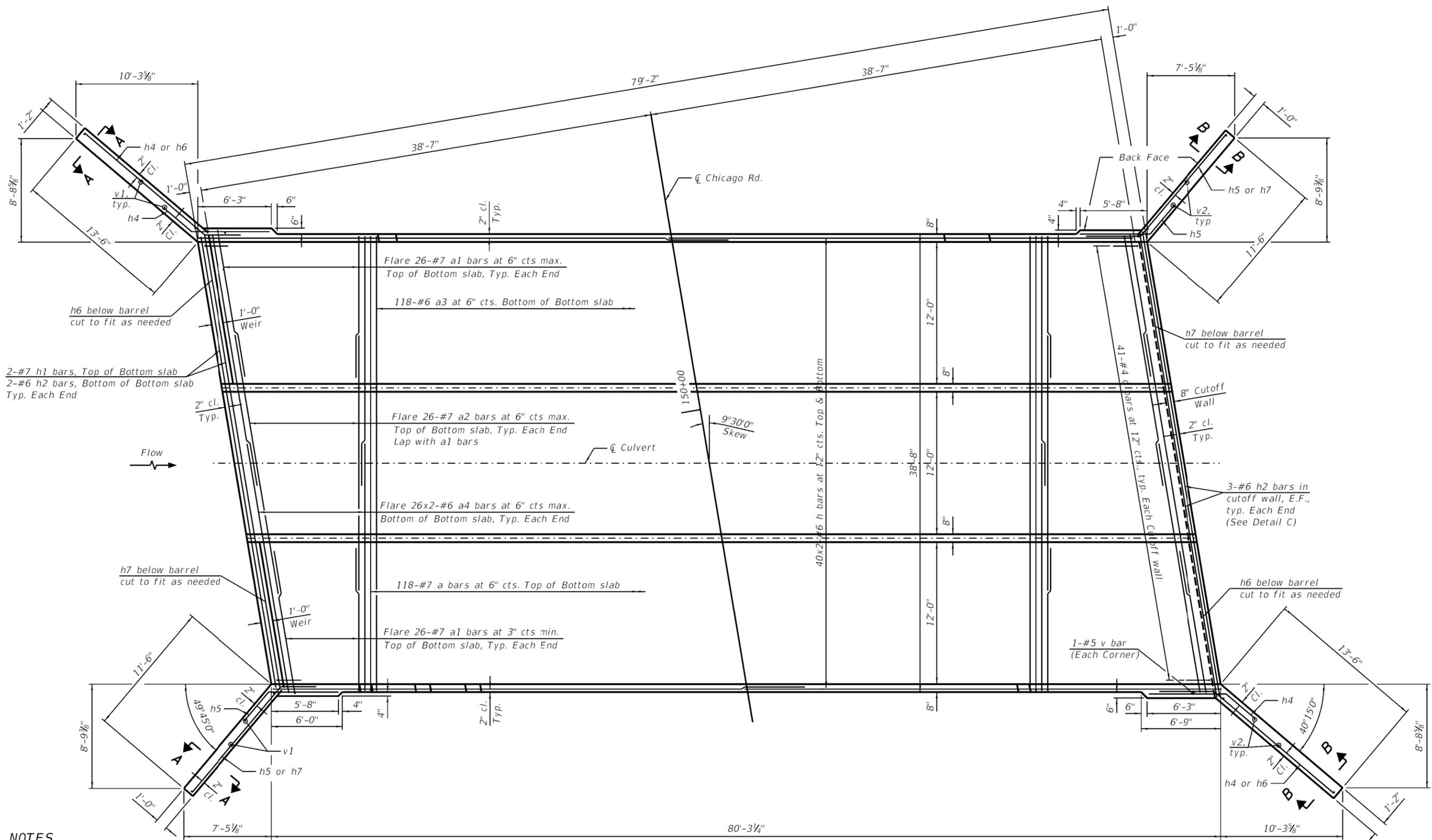
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	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - MAA, SK	REVISED -
PLOT DATE =	DATE - 12/12/2019	REVISED -

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

**CULVERT PLAN TOP SLAB DETAILS**  
**STRUCTURE NO. 016-2305**

SHEET S-3 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	32
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



**NOTES**

1. For Notes, minimum Bar Laps Table, bar diagrams, and Bill of Material, see Sheet S-6 .
2. For top slab reinforcement, see Sheet S-3 .
3. For culvert and wingwall sections and details, and for Detail C, see Sheet S-5 .
4. For weir reinforcement and details, see Sheet S-5 .

**BOTTOM SLAB REINFORCEMENT**  
 (Weir reinforcement is not shown for clarity)



MODEL: Default  
 FILE NAME: P:\1710-746 IDOT District 1\WO 21 Chgo Rd @ Thom Cr Trib\SHEET\0161341-62G92-5HT-004-BottomSlabDet.dgn  
 12/18/2019 10:29:54 AM



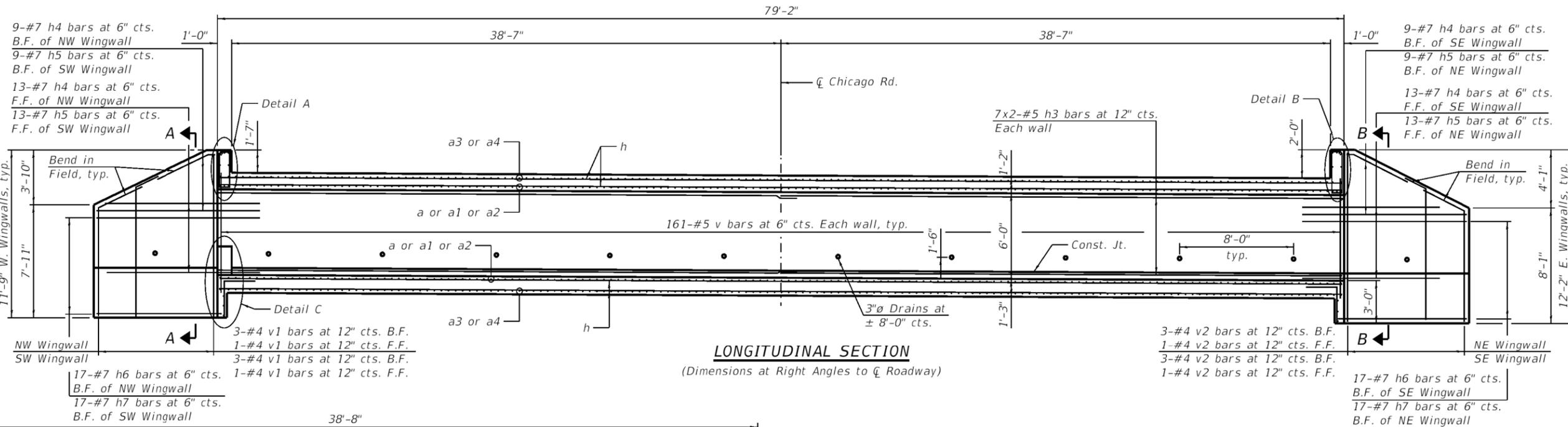
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	CHECKED - MI, RTB	REVISED -
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PLOT DATE =	DATE - 12/12/2019	REVISED -

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

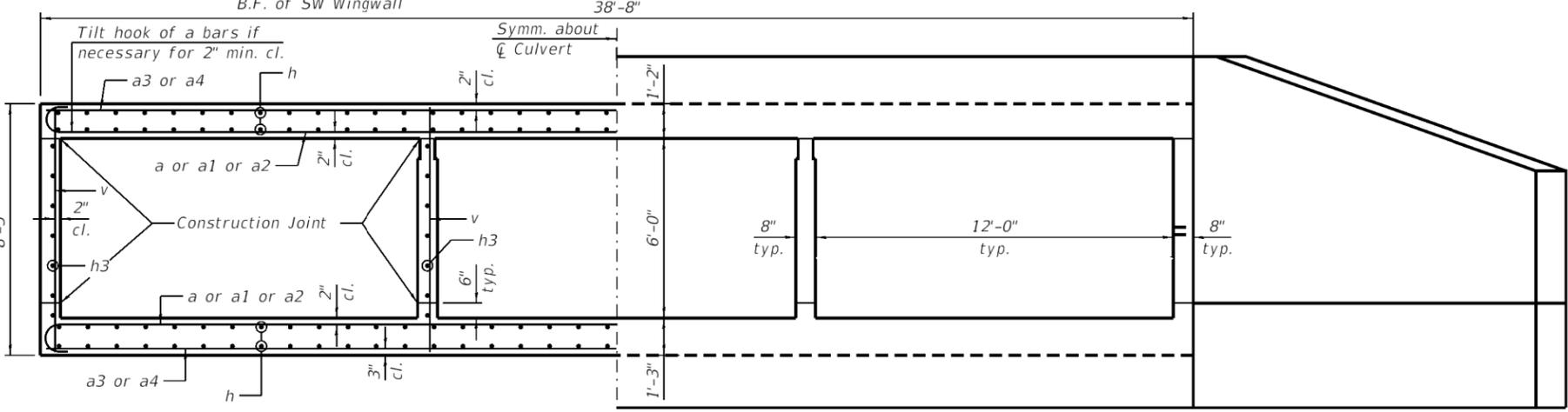
**CULVERT PLAN BOTTOM SLAB DETAILS**  
**STRUCTURE NO. 016-2305**

SHEET S-4 OF S-10 SHEET

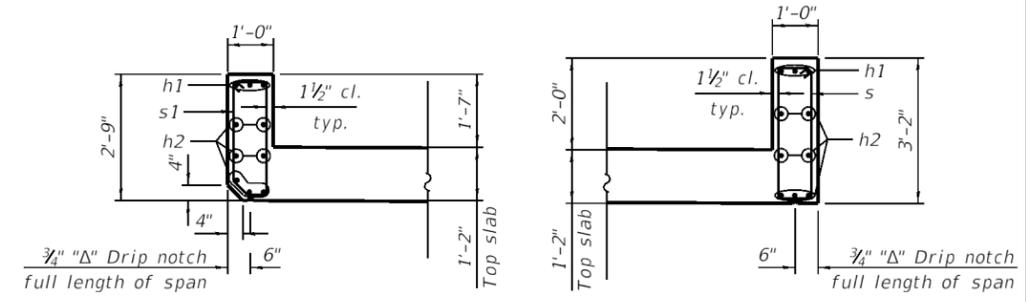
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	33
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



**LONGITUDINAL SECTION**  
(Dimensions at Right Angles to  $\bar{C}$  Roadway)

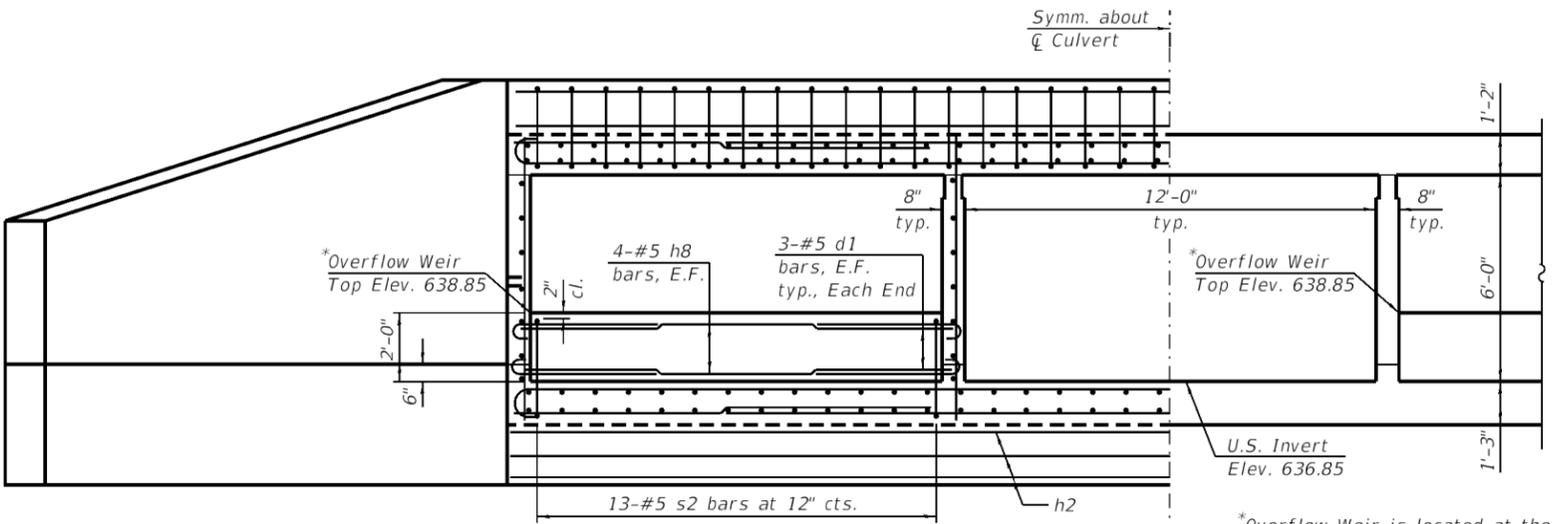


**HALF SECTION THRU BARREL**      **HALF END ELEVATION**



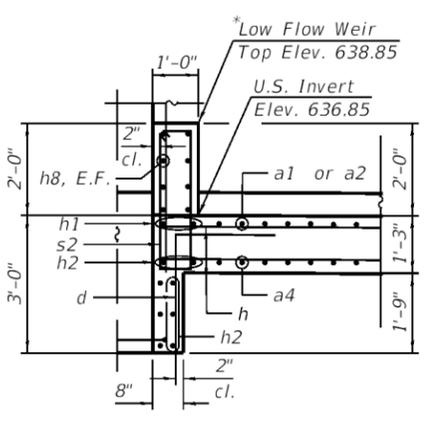
**DETAIL A** (Upstream Headwall Section)  
(Reinforcement to top slab omitted for clarity)

**DETAIL B** (Downstream Headwall Section)  
(Reinforcement to top slab omitted for clarity)

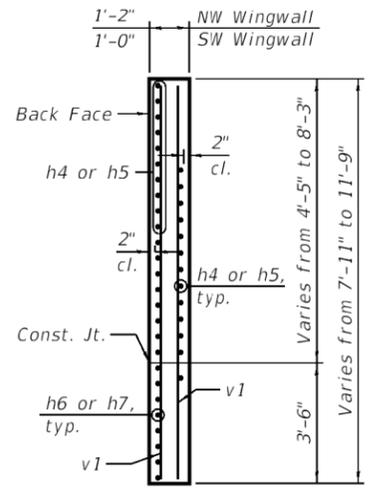


**HALF SECTION THRU BARREL AT OVERFLOW WEIR**  
(Only Overflow Weir reinforcement is called out for clarity)

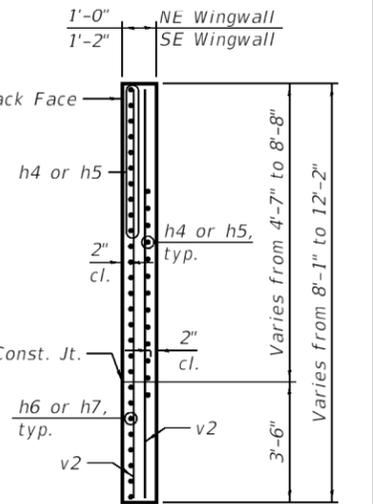
\*Overflow Weir is located at the upstream NorthWest and Southwest cells only.



**DETAIL C**



**SECTION A-A**



**SECTION B-B**

MODEL: Default  
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12/13/2019 10:08:06 AM



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PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - MAA, SK	REVISED -
	DATE - 12/12/2019	REVISED -

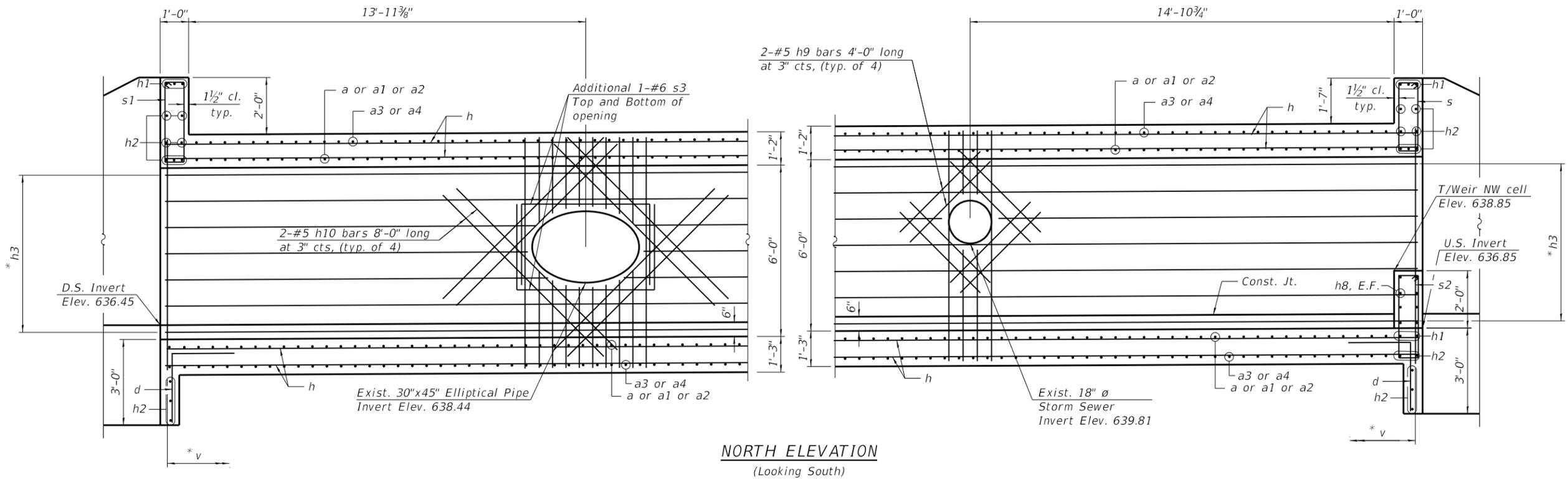
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS AND DETAILS (SHEET 1 OF 3)  
STRUCTURE NO. 016-2305

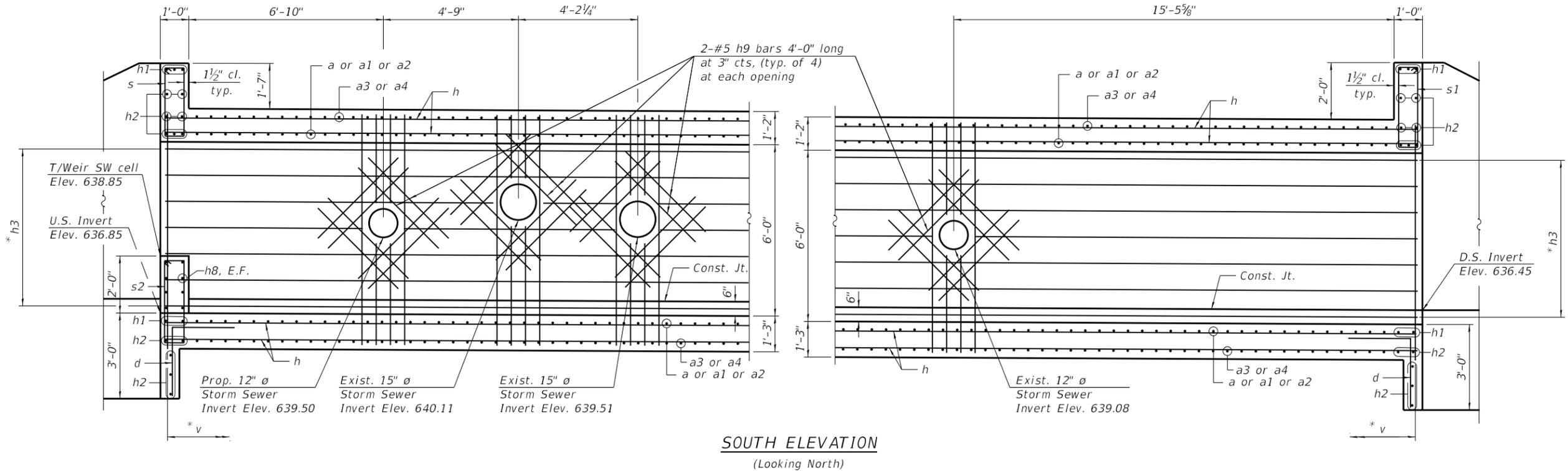
SHEET S-5 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	34
CONTRACT NO. 62G92				

ILLINOIS FED. AID PROJECT



**NORTH ELEVATION**  
(Looking South)



**SOUTH ELEVATION**  
(Looking North)

\* Cut bars in field to fit

**NOTE:**  
1. At locations where pipes meet the culvert, ends shall be sealed per Art. 542.04(d).

MODEL: Default  
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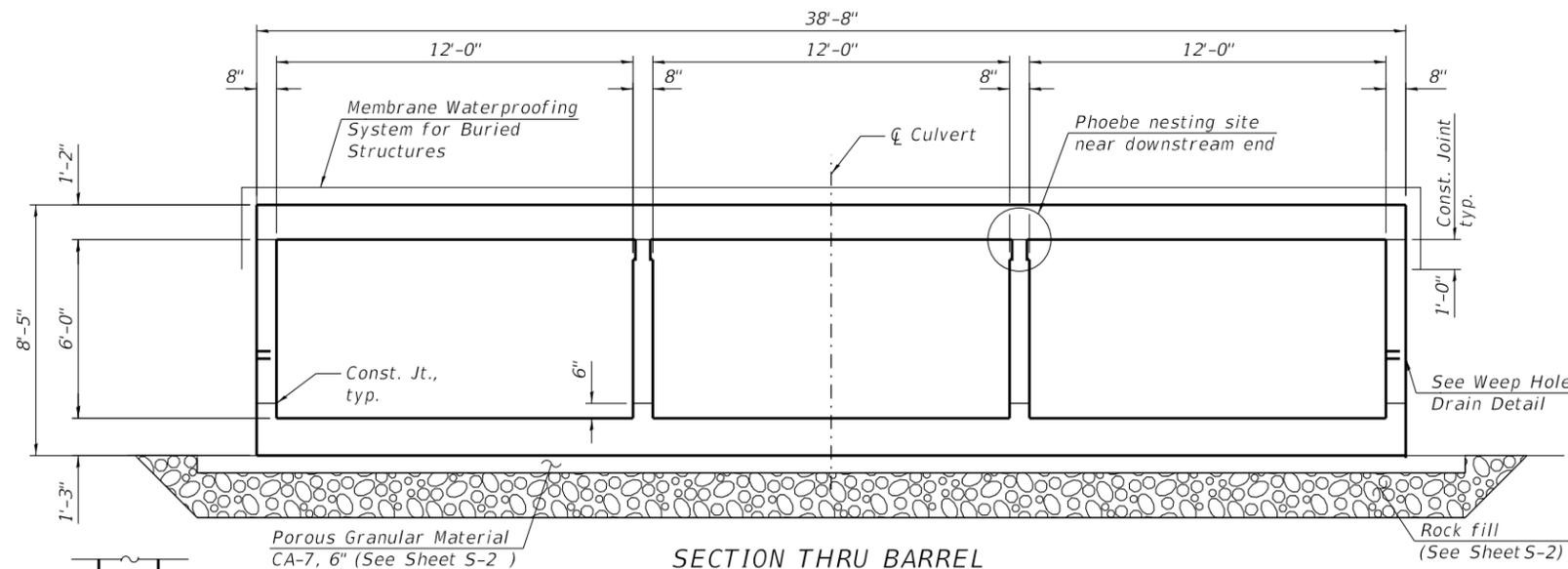
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PLOT SCALE =	CHECKED - MI, RTB	REVISED -
PLOT DATE =	DRAWN - MAA, SK	REVISED -
	DATE - 12/12/2019	REVISED -

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

**CULVERT SECTIONS AND DETAILS (SHEET 2 OF 3)**  
**STRUCTURE NO. 016-2305**

SHEET S-6 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2880	2018-055-CR	COOK	67	35
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



**NOTES:**

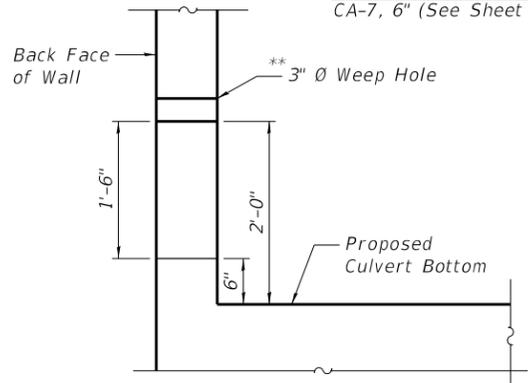
1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. Bars indicated thus 40x2-#6 etc. indicates 40 lines of bars with 2 lengths per line.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	236	#7	40'-0"	U
a1	208	#7	13'-4"	U
a2	104	#7	23'-2"	U
a3	236	#6	38'-4"	U
a4	208	#6	21'-9"	U
d	82	#4	4'-5"	L
d1	12	#5	3'-9"	U
h	320	#6	41'-11"	U
h1	10	#7	38'-7"	U
h2	30	#6	38'-7"	U
h3	56	#5	41'-7"	U
h4	44	#7	8'-0"	U
h5	44	#7	8'-0"	U
h6	34	#7	16'-6"	U
h7	34	#7	14'-6"	U
h8	16	#5	11'-8"	U
h9	40	#5	4'-0"	U
h10	8	#5	8'-0"	U
s	41	#4	8'-1"	U
s1	41	#4	7'-1"	U
s2	26	#5	7'-11"	U
s3	2	#6	10'-6"	U
v	648	#5	8'-0"	U
v1	8	#4	11'-4"	U
v2	8	#4	11'-9"	U
Reinforcement Bars			Pound	87,690
Concrete Box Culverts			Cu. Yd.	353.9
Membrane Waterproofing System for Buried Structures			Sq. Yd.	426

**NOTE:**

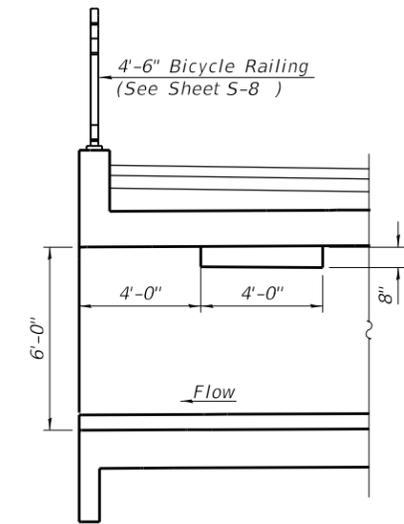
Notch formed by rough finished board attached to and removed with formwork.



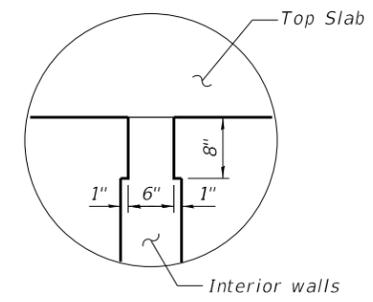
**WEEP HOLE DRAIN DETAIL**

\*\* Cost included with Concrete Box Culverts

\* 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.



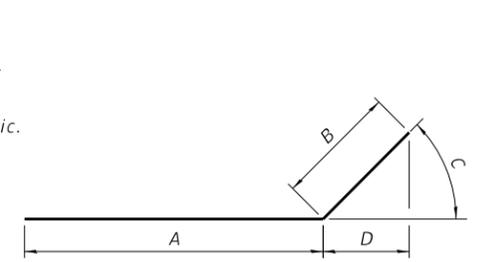
**LONGITUDINAL SECTION**



**NOTCH DETAIL**

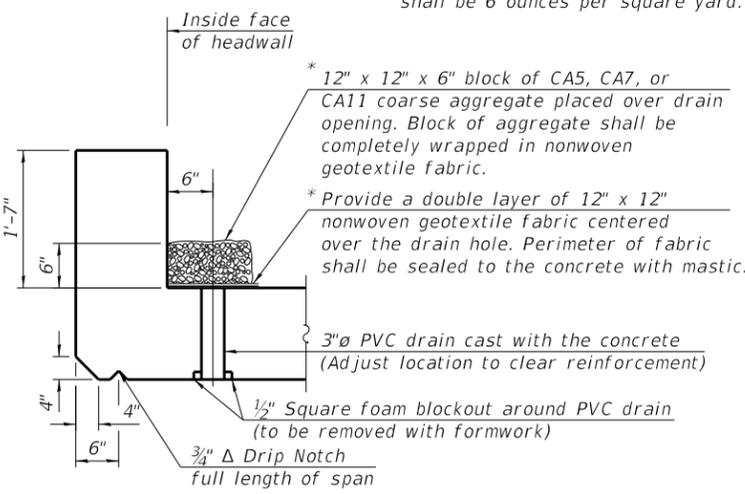
**PHOEBE NESTING SITE**

(Near downstream end)

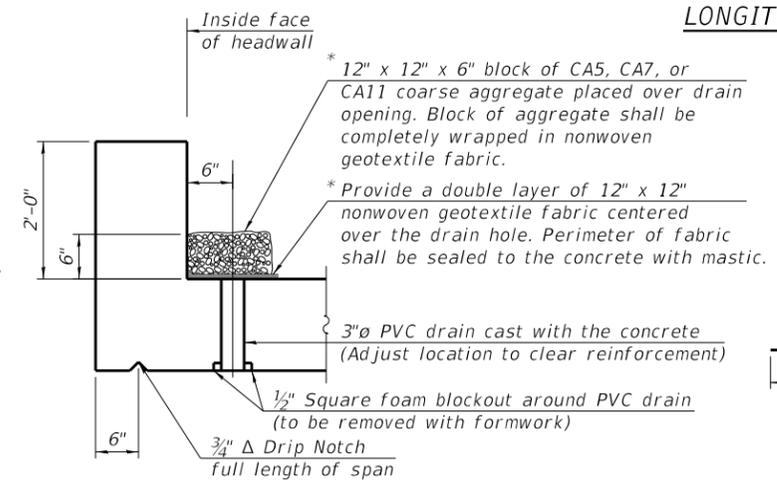


**BARS h4 thru h7**

Bar	A	B	C	D
h4	5'-0"	3'-0"	49°45'0"	1'-11 1/4"
h5	5'-0"	3'-0"	40°15'0"	2'-3 1/2"
h6	13'-6"	3'-0"	49°45'0"	1'-11 1/4"
h7	11'-6"	3'-0"	40°15'0"	2'-3 1/2"

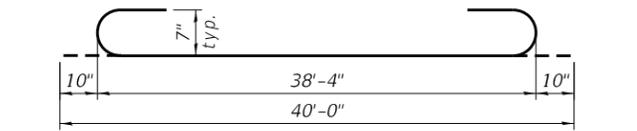


**AT UPSTREAM END**

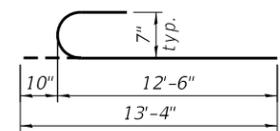


**AT DOWNSTREAM END**

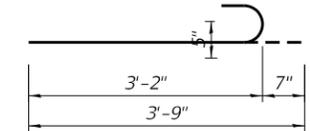
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



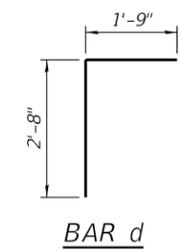
**BAR a**



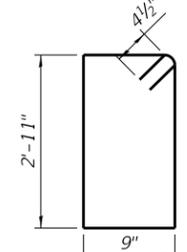
**BAR a1**



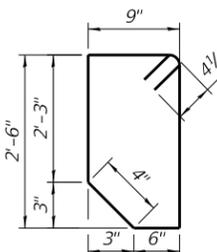
**BAR d1**



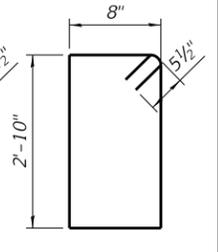
**BAR d**



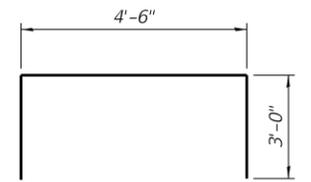
**BAR s**



**BAR s1**



**BAR s2**



**BAR s3**

Bar	Lap
#5	3'-2"
#6	3'-10"
#7	4'-5"

MODEL: Default  
FILE NAME: P:\1710-746 IDOT District 1\WO 21 Chgo Rd @ Thorn Cr Trib\Sheet\0161341-62G92-5HT-007-SecDet3.dgn  
12/13/2019 10:08:11 AM



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	CHECKED - MI, RTB	REVISED -
PLOT SCALE =	DRAWN - MAA, SK	REVISED -
PLOT DATE =	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT SECTIONS AND DETAILS (SHEET 3 OF 3)  
STRUCTURE NO. 016-2305**

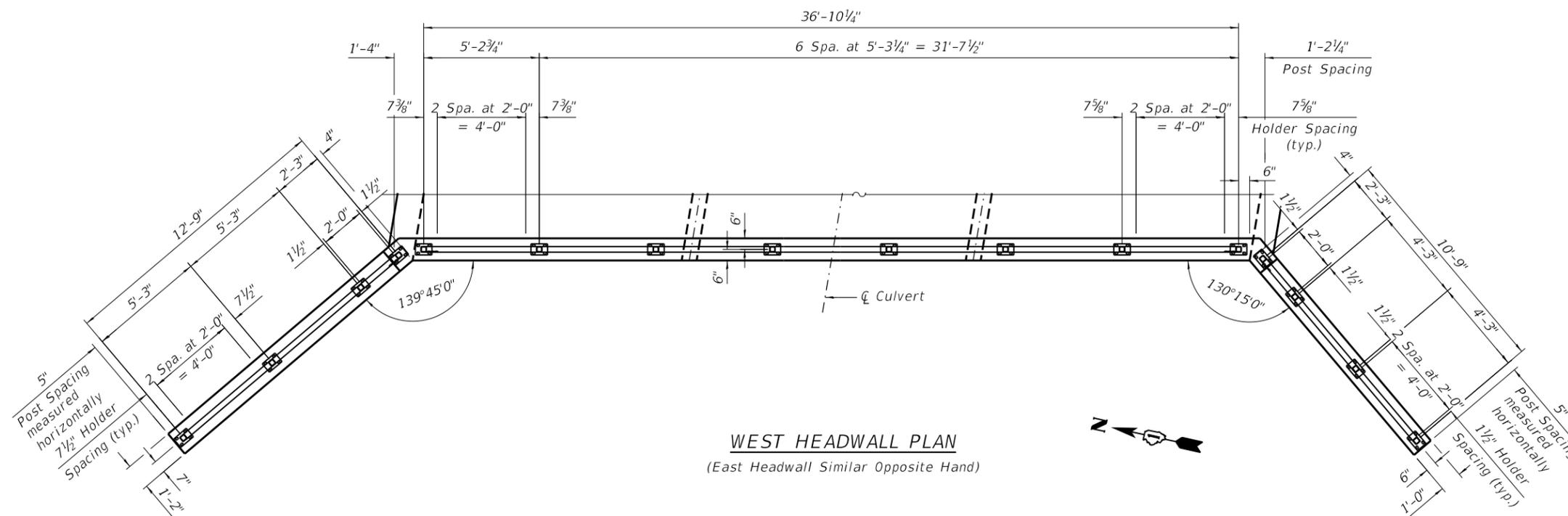
SHEET S-7 OF S-10 SHEET

F.A.U. RTE. 2880	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 36
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

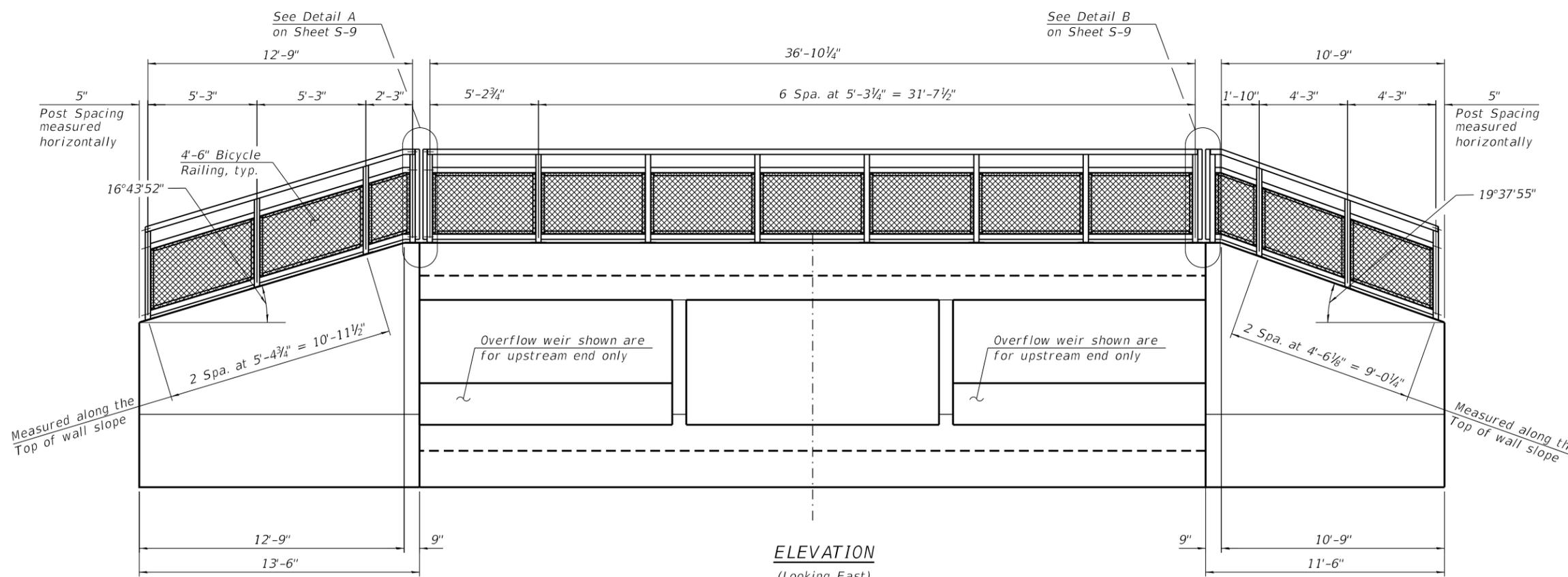
**NOTE:**  
1. For Details see Sheet S-8 .

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	126



**WEST HEADWALL PLAN**  
(East Headwall Similar Opposite Hand)



**ELEVATION**  
(Looking East)  
(East Headwall Similar Opposite Hand)  
Dimensions are measured along centerline of fence

MODEL: Default  
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12/13/2019 10:08:13 AM



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	DATE - 12/12/2019	REVISED -

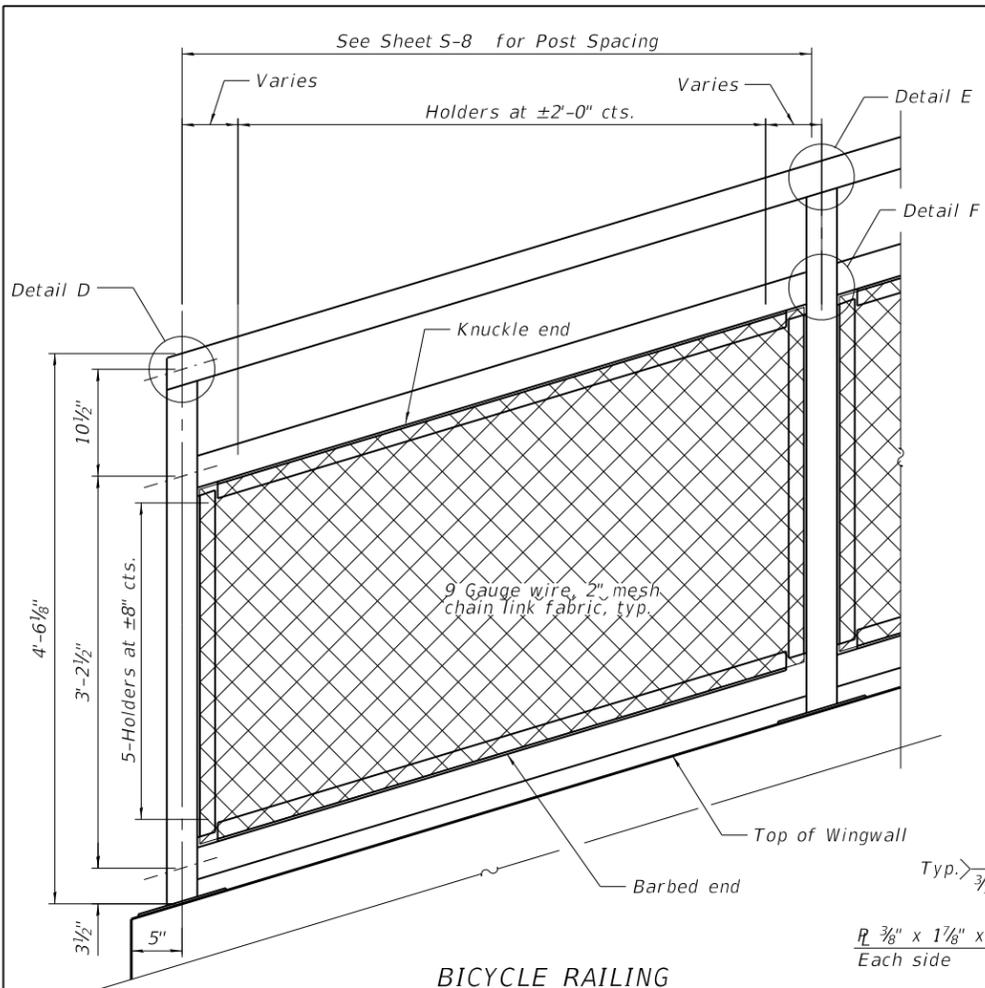
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING PLAN AND ELEVATION**  
**STRUCTURE NO. 016-2305**

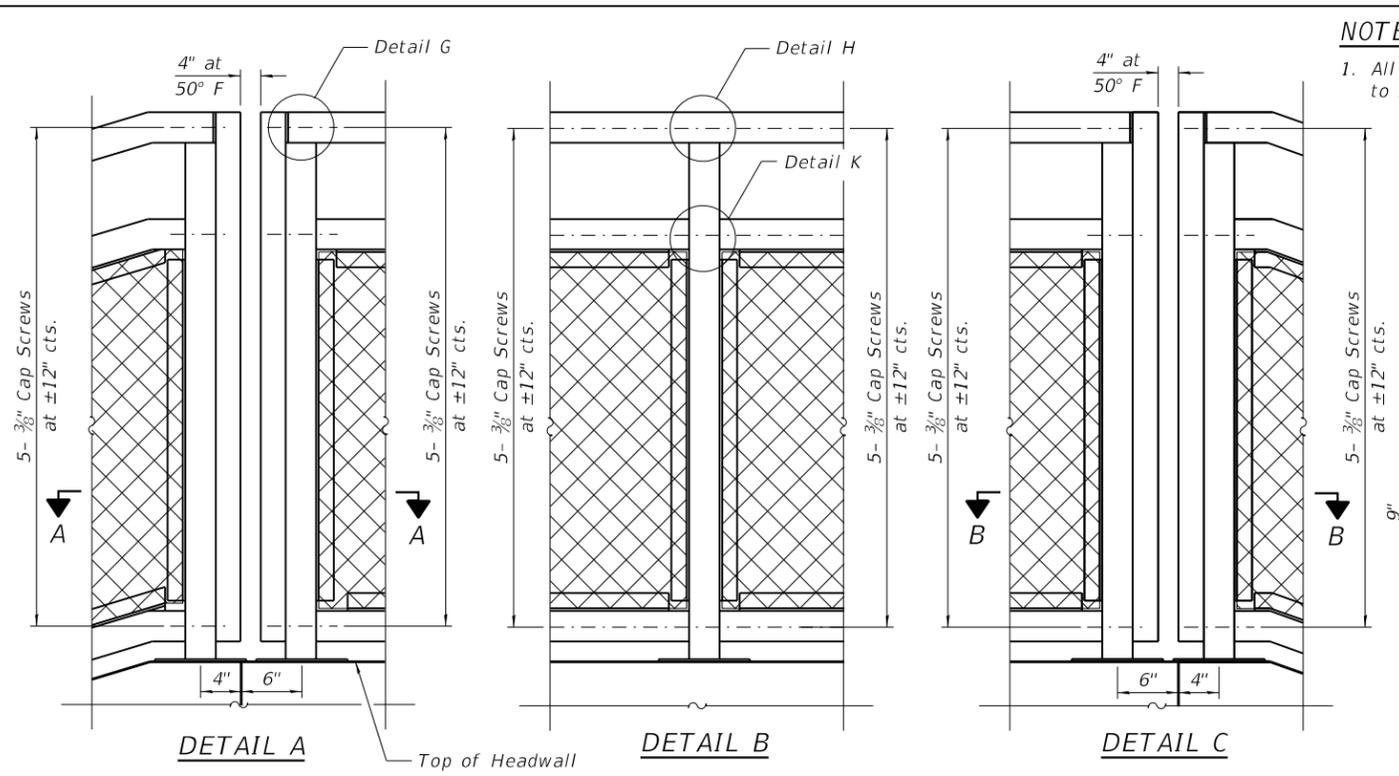
SHEET S-8 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2880	2018-055-CR	COOK	67	37
CONTRACT NO. 62G92				

ILLINOIS FED. AID PROJECT



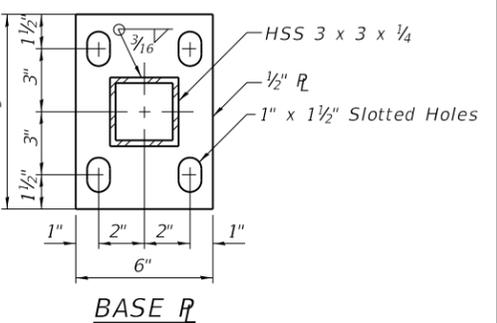
**BICYCLE RAILING**



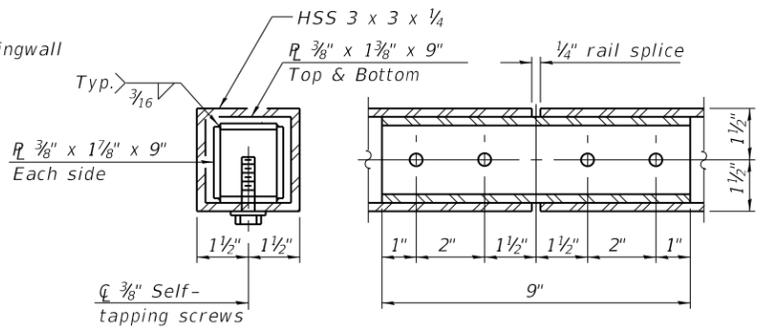
**DETAIL A**

**DETAIL B**

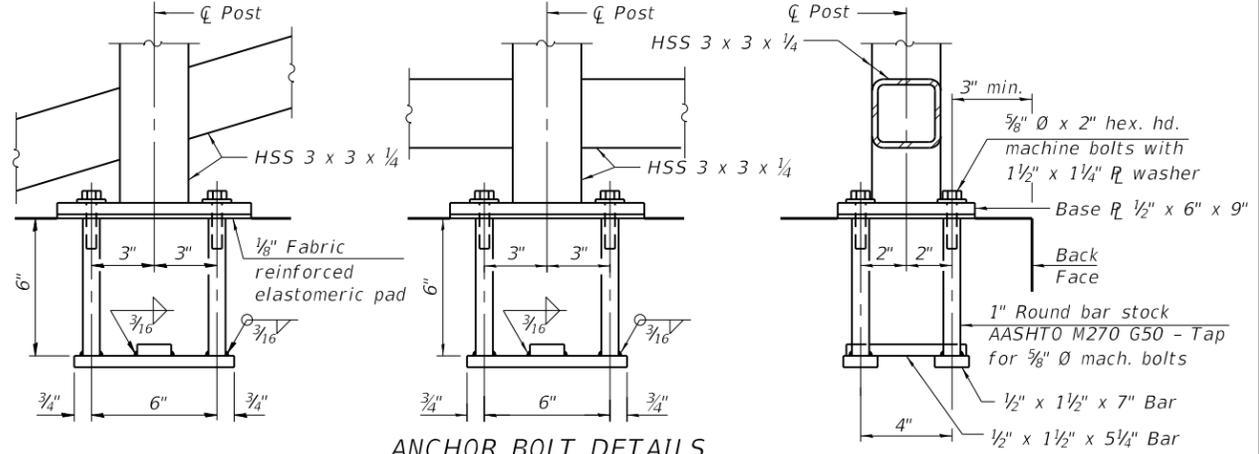
**DETAIL C**



**BASE R**

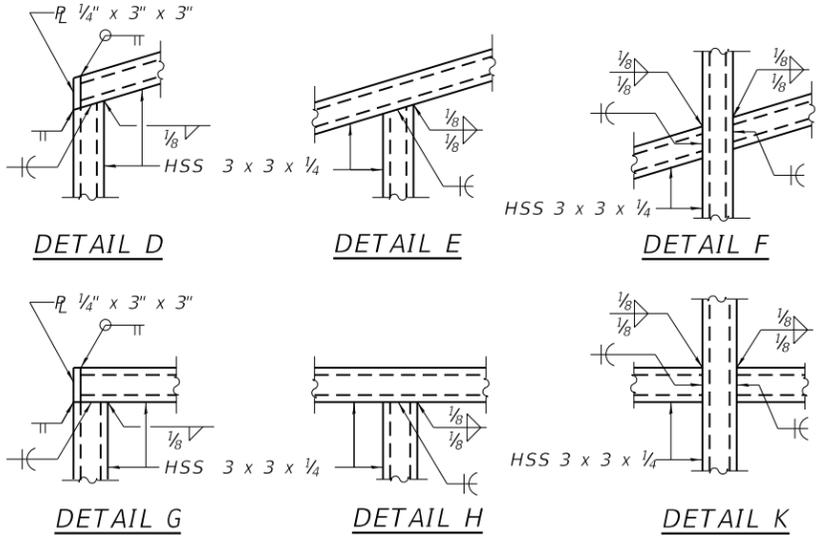


**RAIL SPLICE**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**DETAIL D**

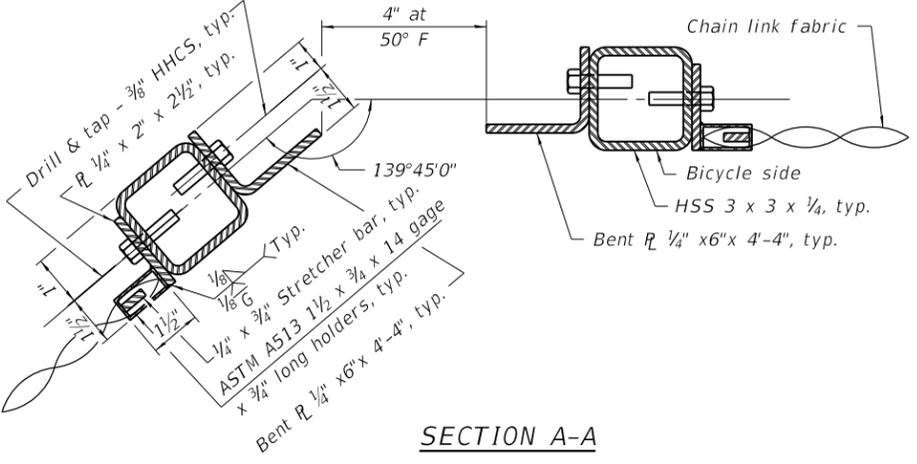
**DETAIL E**

**DETAIL F**

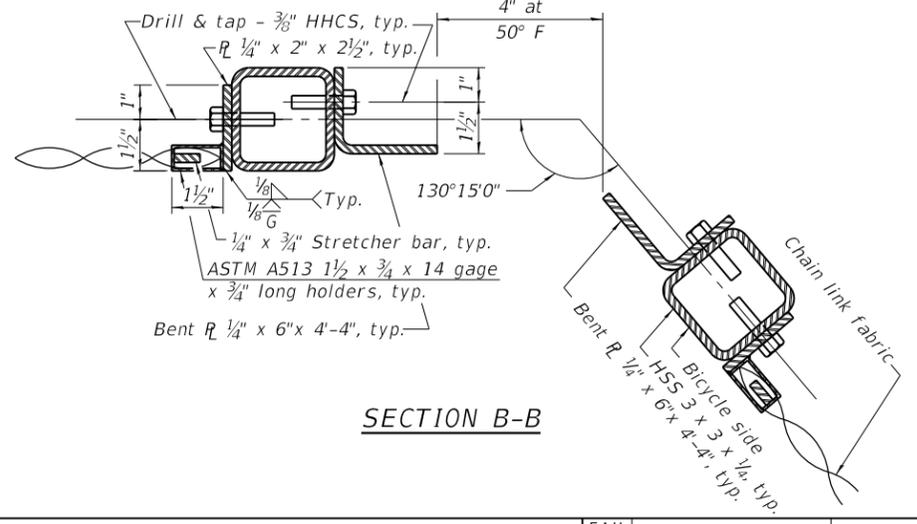
**DETAIL G**

**DETAIL H**

**DETAIL K**



**SECTION A-A**



**SECTION B-B**

**NOTE:**  
1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

MODEL: Default  
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12/13/2019 10:08:15 AM



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	DATE - 12/12/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING DETAILS  
STRUCTURE NO. 016-2305**

SHEET S-9 OF S-10 SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	38
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 5/22/19

ROUTE FAU Route 2860/Chicago Road DESCRIPTION Chicago Road Over Thorn Creek Tributary LOGGED BY E. Mueller  
 SECTION 059-0102 MFT LOCATION Over Thorn Creek Tributary, SEC. , TWP. , RNG. ,  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH	BLOW	UCS	MOIST
SN 016-1341	(ft)	(/6")	(tsf)	(%)	N/A	N/A	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)
Asphalt (2.0 inches)	644.88													
PCC (10.0 inches)	644.05													
Gray, Crushed Limestone CA-06, FILL	643.79	4	2.3	27							3	1.3	19	
Dark Gray, Silty Clay		5	B								5	B		
		4									3			
		4	1.0	30							4	1.2	14	
		6	B								7	B		
	639.55										-25			
Brown and Gray, Silty Clay		2									3			
		2	0.8	27							4		10	
		2	B								8			
		1									5			
		1	0.4	37							5		14	
		2	B								6			
		3												
		3	0.5	34										
		4	B											
		2									4			
		2	1.3	22							4		14	
		5	B								4			
		5									6			
		1												
		5	1.4	19										
		7	B											
	627.05													
Gray, Sand		1												
	626.05													
Gray, Silty Clay		2	1.6	19										
		4	B											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 5/22/19

ROUTE FAU Route 2860/Chicago Road DESCRIPTION Chicago Road Over Thorn Creek Tributary LOGGED BY E. Mueller  
 SECTION 059-0102 MFT LOCATION Over Thorn Creek Tributary, SEC. , TWP. , RNG. ,  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH	BLOW	UCS	MOIST
SN 016-1341	(ft)	(/6")	(tsf)	(%)	N/A	N/A	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)
Asphalt (2.0 inches)	644.63													
PCC (10.0 inches)	643.80													
Gray, Crushed Limestone CA-06, FILL	643.30	10									4			
Black, Silty Clay		5	2.3	24							4	1.9	19	
		5	B								6	B		
	641.80													
Brown and Gray, Silty Clay		16									4			
		4									4	0.6	22	
		3									5	B		
		3									-25			
	619.30													
Gray, Silty Clay		2									4			
		2	0.8	23							4	1.6	17	
		2	B								5	B		
	636.80													
Gray, Silty Clay		0									4			
		0	0.3	49							6	2.6	23	
		0	B								6	B		
		0												
		0	0.1	33										
		1	B											
		2									5			
		2	0.3	32							5		14	
		1	B								7			
		1												
		2												
		2	0.3	32										
		1	B											
		1												
		2												
		2	1.6	22										
		0	B											
		4												
		5	1.9	22										
		9	B											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, form 137 (Rev. 8-99)

MODEL: Default  
 FILE NAME: P:\1710-746 IDOT District 1\WO 21 Chgo Rd @ Thorn Cr Trib\Sheet\0161341-62G92-SHT-010-Boring1.dgn



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CHECKED - MI, RTB	REVISED -	
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PLOT DATE =	DATE - 12/12/2019	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 STRUCTURE NO. 016-2305

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	39
CONTRACT NO. 62G92				

SHEET S-10 OF S-10 SHEET

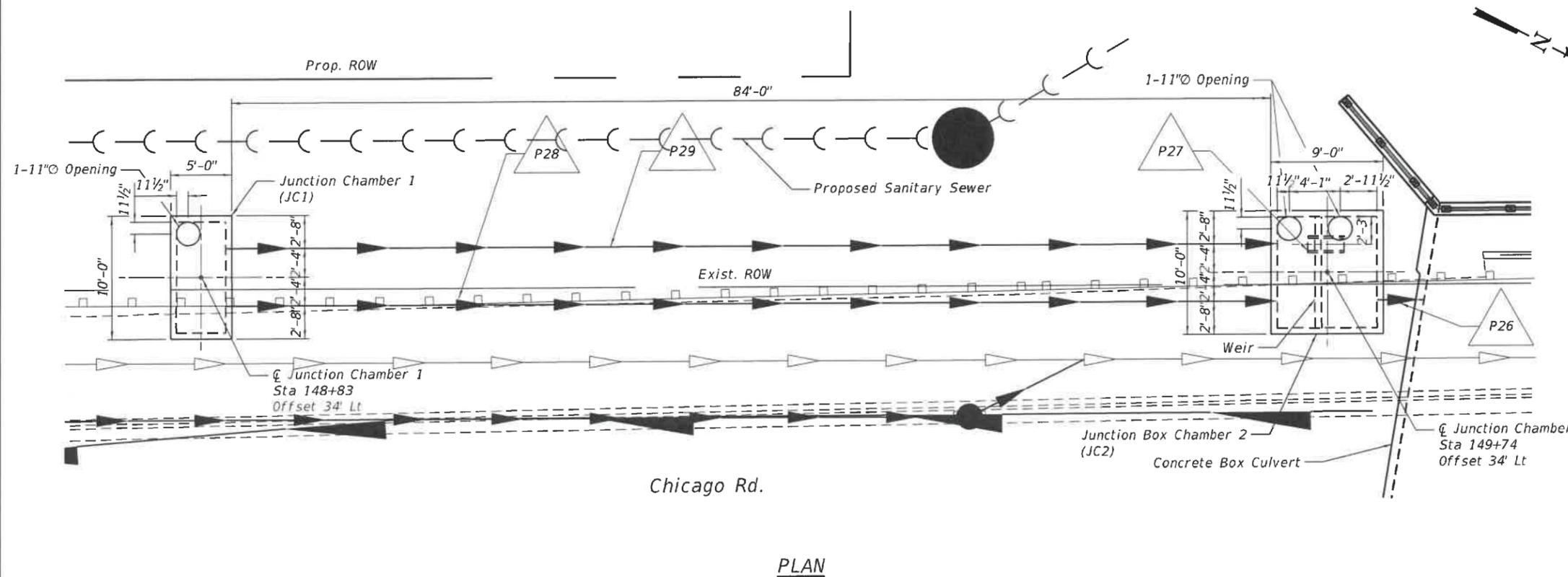
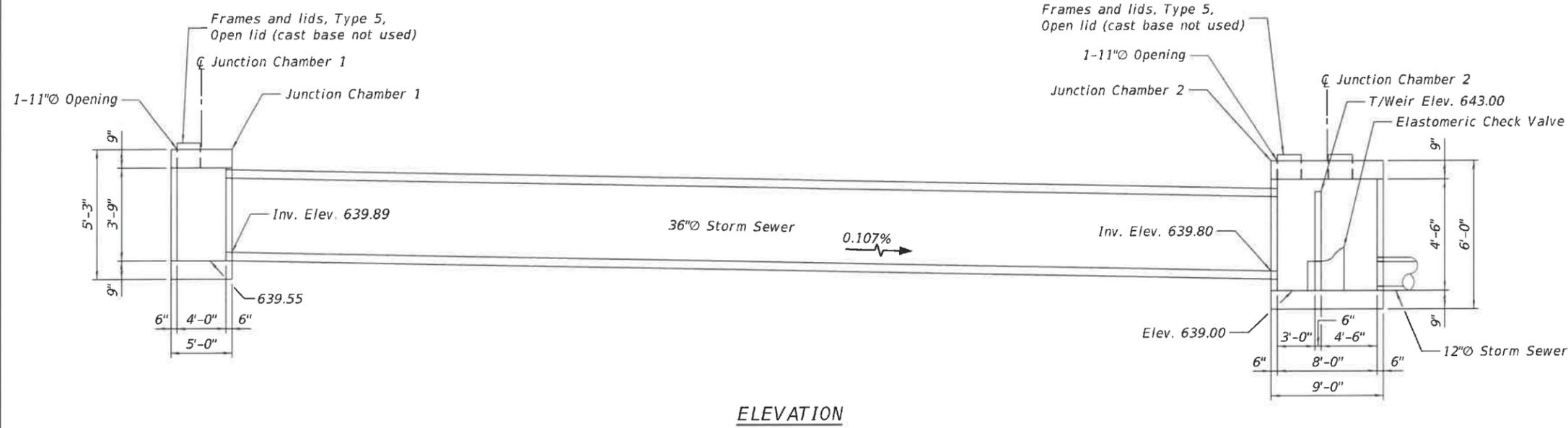
ILLINOIS FED. AID PROJECT

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Structures	Cu. Yd.	13.8
Reinforcement Bars, Epoxy Coated	Pound	2720
Frames And Lids, Type 5, Open Lid	Each	3



DATE SIGNED: 11/17/2020  
EXP. DATE: 11/30/2020



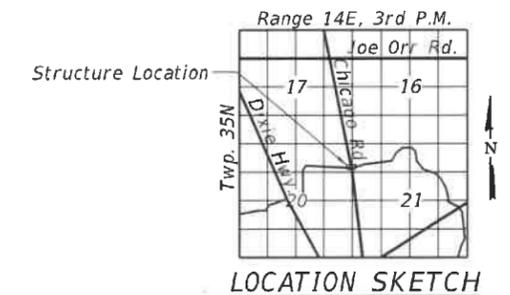
**DESIGN SPECIFICATIONS**

2002 AASHTO Std. Specifications

**DESIGN STRESSES**

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



MODEL: Default  
FILE NAME:



USER NAME = JENT	DESIGNED - SAT	REVISED -
CHECKED - SPS	REVISIONS -	
PLOT SCALE =	DRAWN - JN	REVISED -
PLOT DATE = 1/16/2020	CHECKED - JMT	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

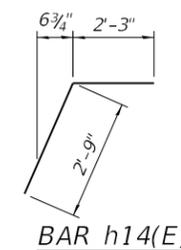
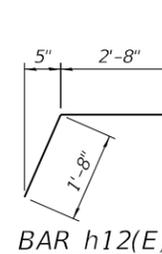
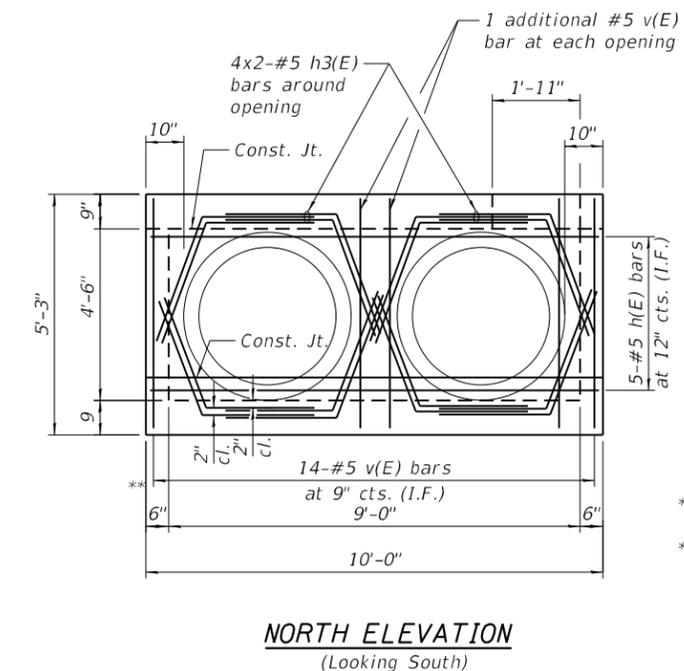
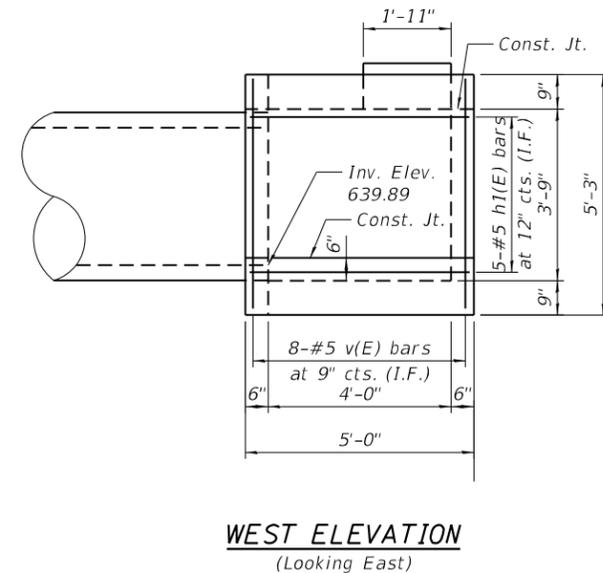
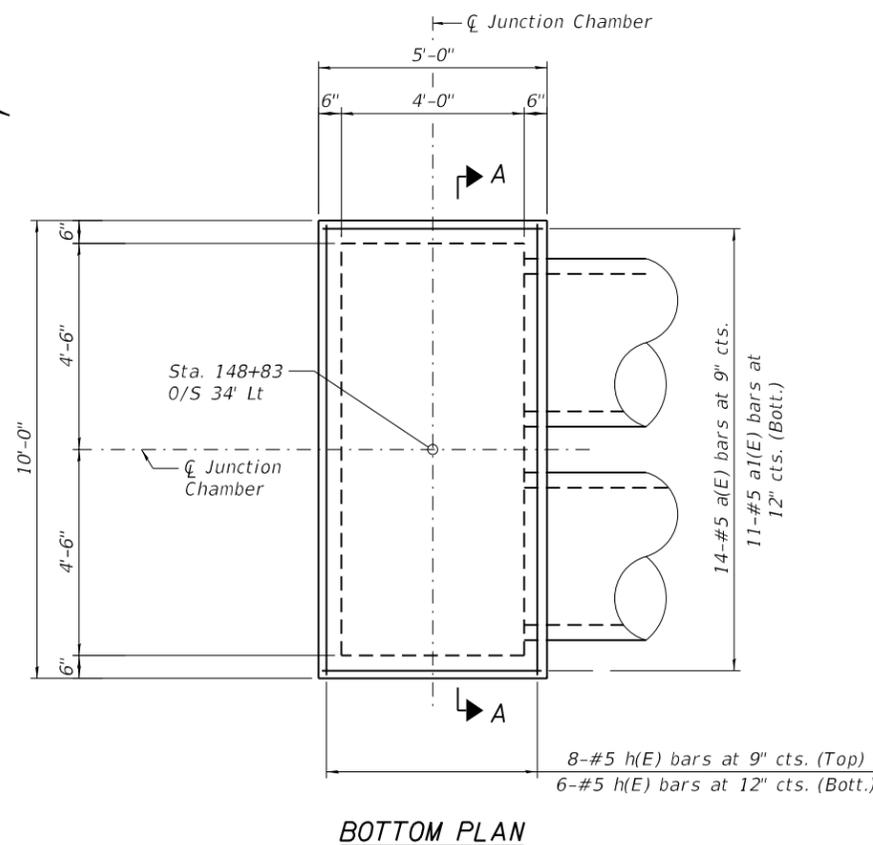
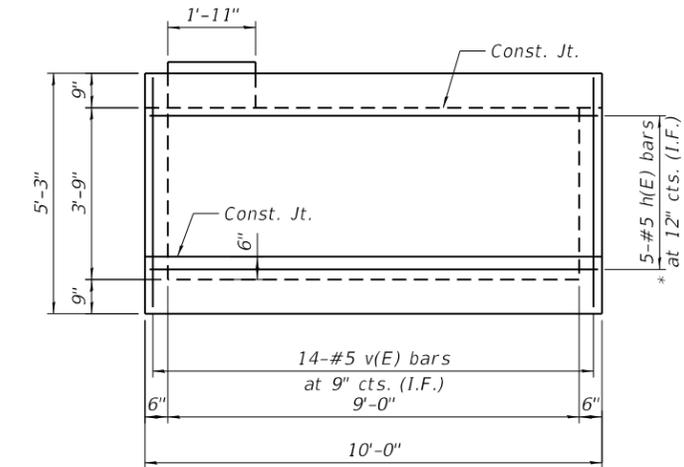
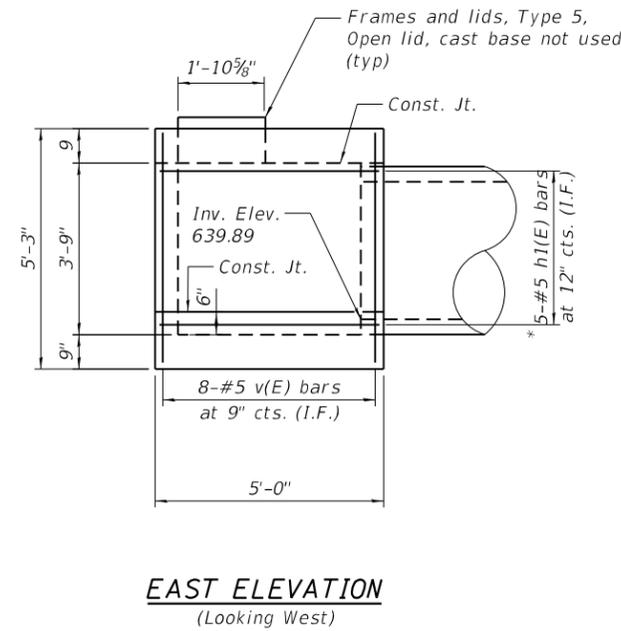
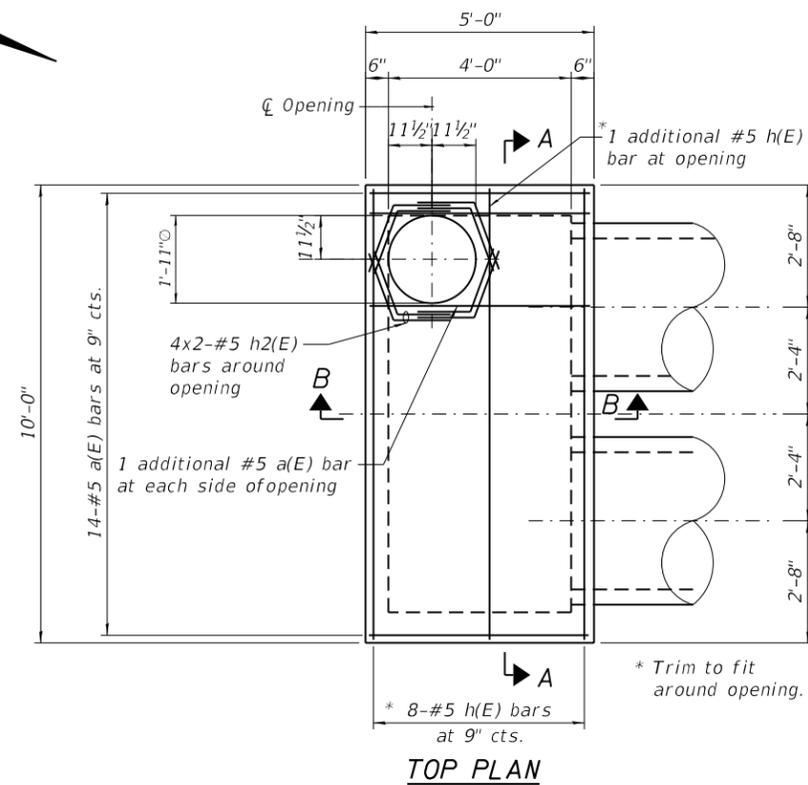
**JUNCTION CHAMBER GENERAL PLAN AND ELEVATION  
CHICAGO HEIGHTS RD AT THORN CREEK**

SHEET OF S-21 SHEETS

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 40
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62G92

**BILL OF MATERIAL JUNCTION CHAMBER 1**

Bar	No.	Size	Length	Shape
a(E)	30	#5	5'-10"	
a1(E)	11	#5	4'-8"	
h(E)	33	#5	9'-8"	
h1(E)	10	#5	4'-8"	
h2(E)	8	#5	4'-2"	
h3(E)	16	#5	5'-0"	
v(E)	46	#5	4'-11"	
Concrete Structures			Cu. Yd.	5.3
Reinforcement Bars, Epoxy Coated			Pound	980
Frames And Lids, Type 5, Open Lid			Each	1



\* Trim to fit around opening.

\*\* Dimensions to be verified with the precast concrete box culvert manufacturer.

I.F. = Inside Face  
Bott. = Bottom

FILE NAME = Q:\Engineering\Live\Projects\13840\_IDOT DUR HBM\Work Order 21-62092\CADD\CADD Sheets\Structural\DI62092-sht-Junction Chamber-1-Details.dgn



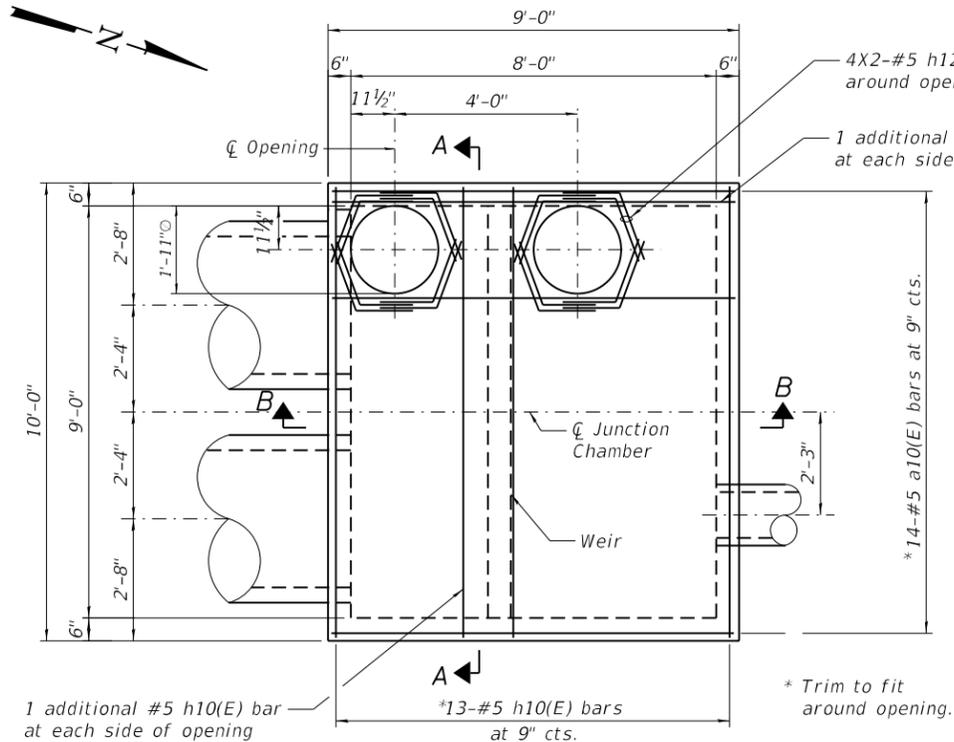
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PLOT DATE = 12/12/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

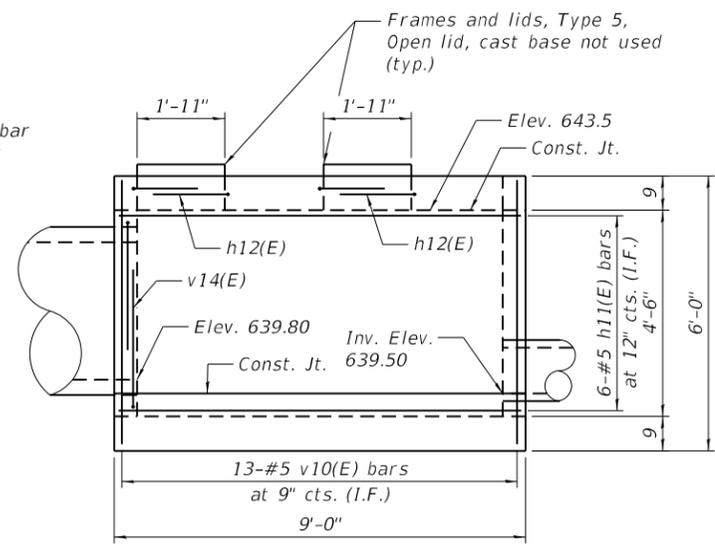
**JUNCTION CHAMBER 1 - DETAILS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET OF SHEETS STA. TO STA.

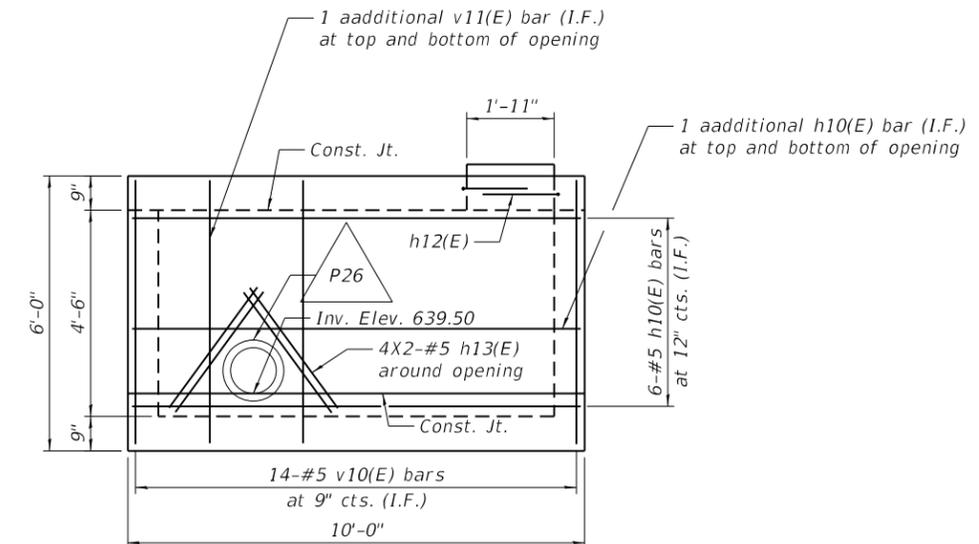
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	41
CONTRACT NO.			62G92	
ILLINOIS FED. AID PROJECT				



**TOP PLAN**

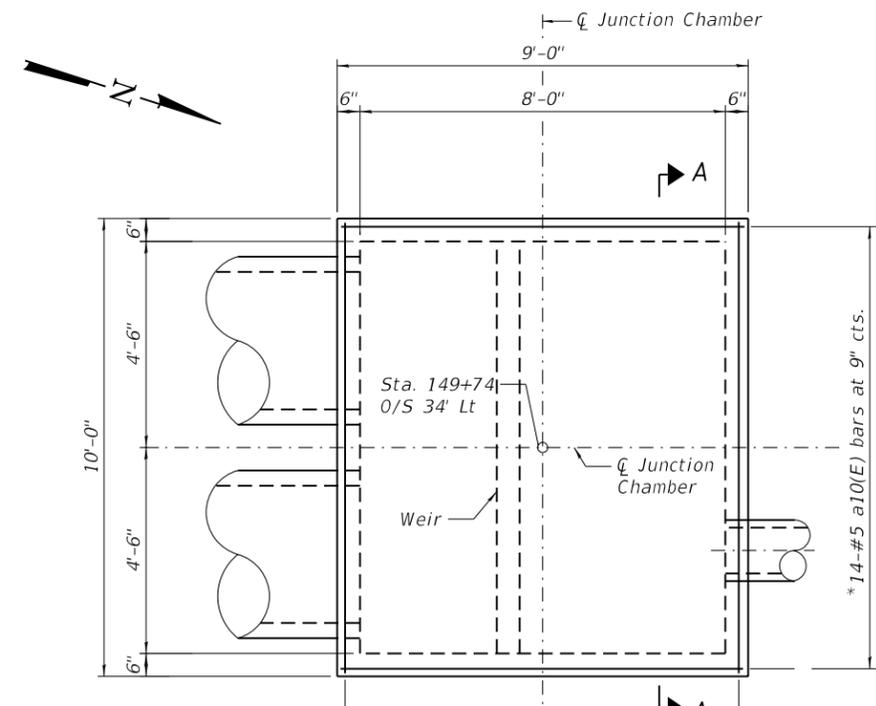


**EAST ELEVATION**

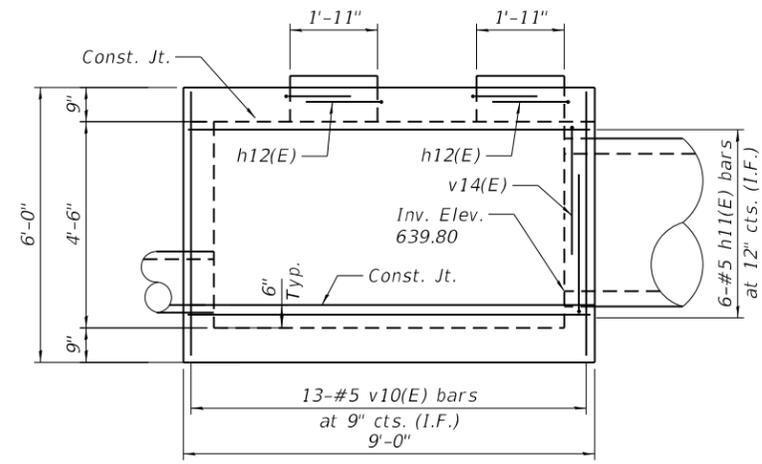


**NORTH ELEVATION**

(Looking South)

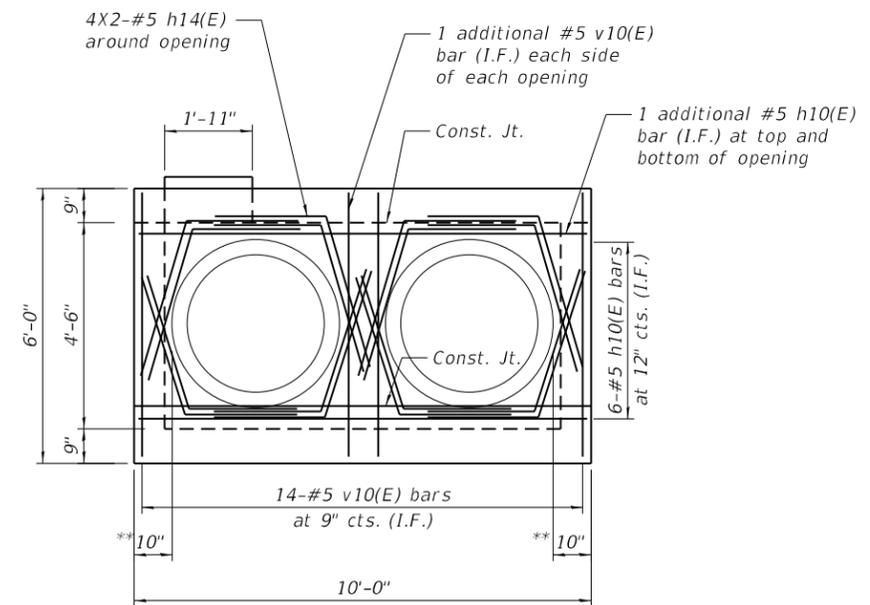


**BOTTOM PLAN**



**WEST ELEVATION**

(Looking East)



**SOUTH ELEVATION**

(Looking North)

\*\*\* Reinforce opening for P27 similar to P26

\* Trim to fit around opening.

\*\* Dimensions to be verified with the precast concrete box culvert manufacturer.

I.F. = Inside Face  
Bott. = Bottom

FILE NAME = Q:\Engineering\LiveProjects\13840\_IDOT DUR HBM\Work Order 21-62092\CADD\CADD Sheets\Structural\162652-sht-Junction Chamber 2-Details.dgn



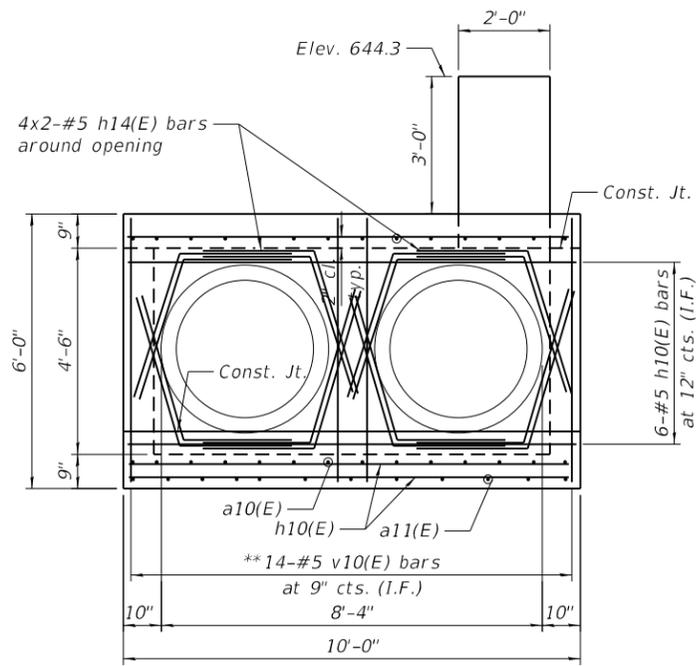
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PLOT DATE = 12/12/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>JUNCTION CHAMBER 2 - DETAILS</b>			
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

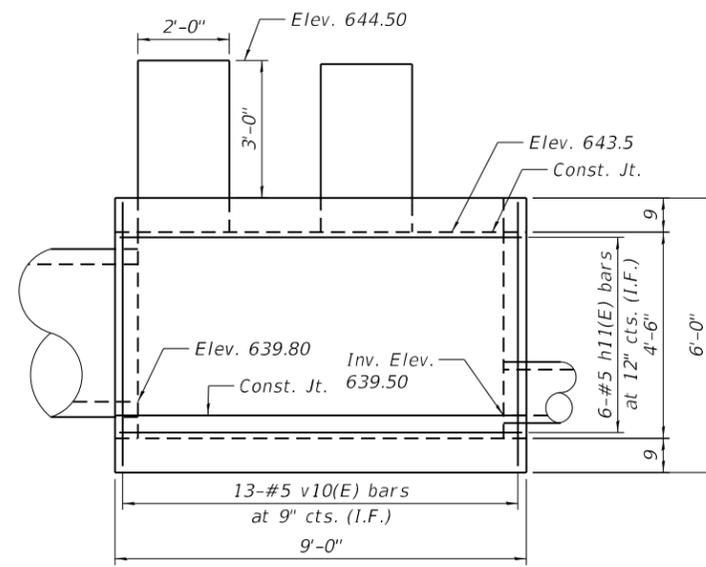
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	42
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

FILE NAME = Q:\Engineering\Live\Projects\13840\_IDOT DUR HBM\Work Order 21-62092\CADD\CADD Sheets\Structural\162692-sht-Junction Chamber-2-Details II.dgn

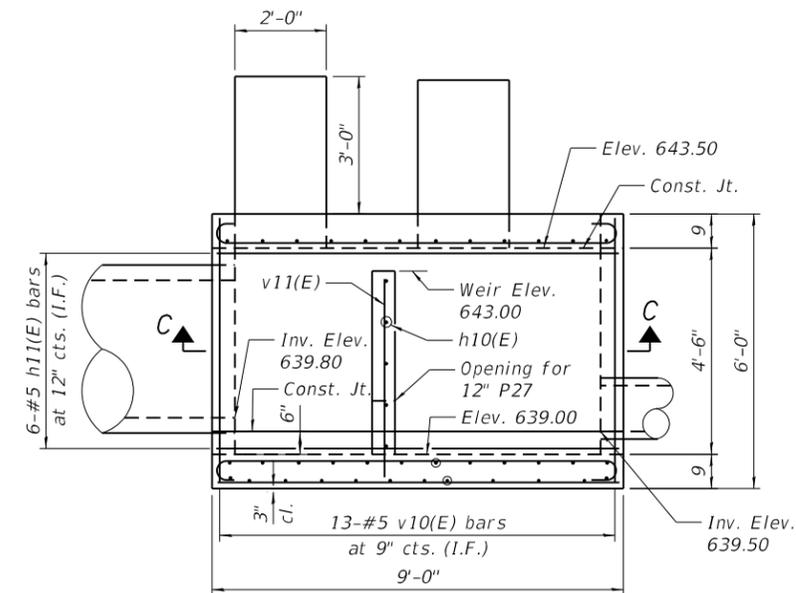


**SECTION A-A**

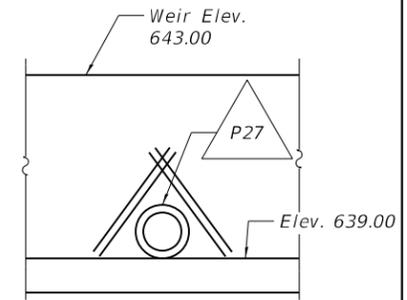
\*\* Dimensions to be verified with the precast concrete box culvert manufacturer.



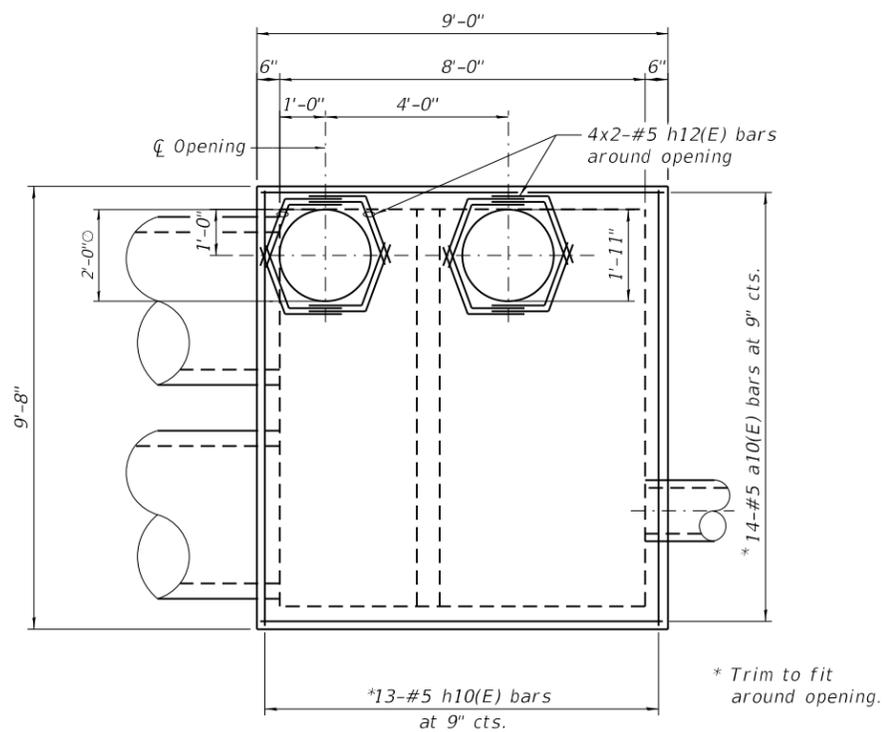
**EAST ELEVATION**  
(Looking West)



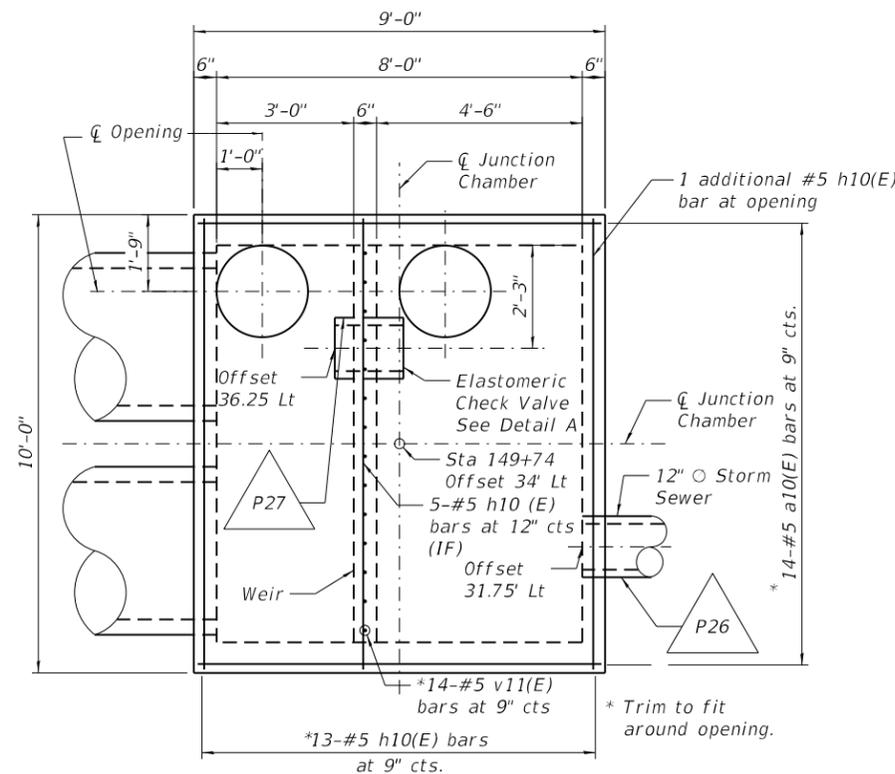
**SECTION B-B**



**WEIR ELEVATION**



**PLAN VIEW**



**SECTION C-C**



USER NAME = johnn	DESIGNED -	REVISED -
PLOT SCALE = 4:0 "1" / in.	DRAWN -	REVISED -
PLOT DATE = 12/12/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

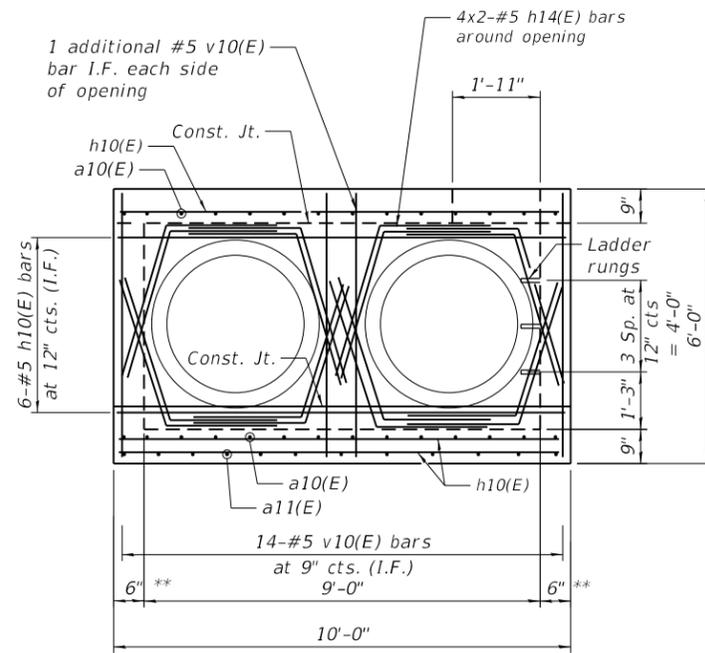
**JUNCTION CHAMBER 2 DETAILS - II  
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	43
				CONTRACT NO. 62G92
ILLINOIS FED. AID PROJECT				

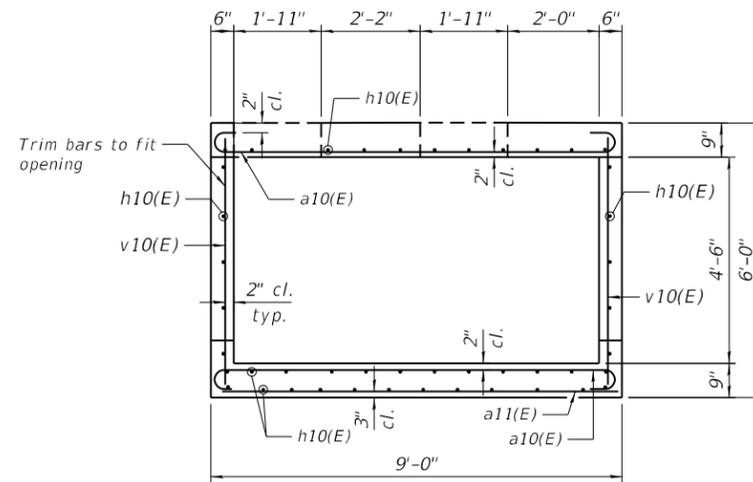
**BILL OF MATERIAL  
JUNCTION CHAMBER 2**

Bar	No.	Size	Length	Shape
a10(E)	32	#5	9'-10"	
a11(E)	11	#5	8'-8"	
h10(E)	56	#5	9'-8"	
h11(E)	12	#5	8'-8"	
h12(E)	32	#5	4'-2"	
h13(E)	8	#5	2'-0"	
h14(E)	16	#5	5'-0"	
v10(E)	57	#5	5'-8"	
v11(E)	14	#5	5'-3"	
Concrete Structures			Cu. Yd.	8.5
Reinforcement Bars, Epoxy Coated			Pound	1740
Frames And Lids, Type 5, Open Lid			Each	2



**SECTION A-A**

\*\* Dimensions to be verified with the precast concrete box culvert manufacturer.



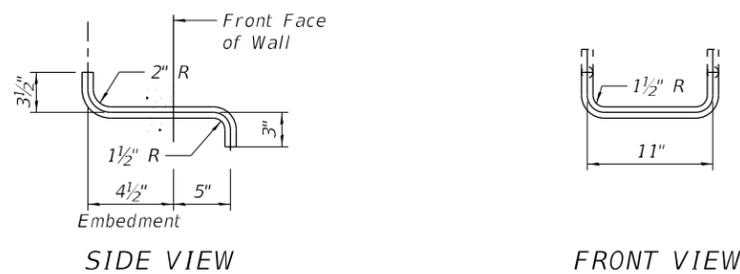
**SECTION B-B**

**NOTES:**

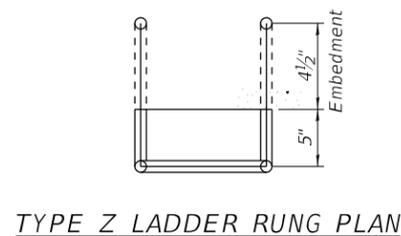
1. Reinforcement Bars designated (E) shall be epoxy coated.
2. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
3. The ladder rungs shall be aluminum, conforming to ASTM B361-Alloy 6061-T6 or shall be ductile iron. Aluminum ladder rungs shall receive a heavy coat of bituminous paint or cold applied asphaltic mastic for the portion embedded in concrete. The coating must extend beyond the embedment at least two inches.
4. The contractor may submit an alternative ladder rung detail for the Engineer's approval.
5. All costs for compacted subbase or CLSM, ladder rungs, and all appurtenances required to complete this work shall be included in the cost of "Concrete Structures".
6. Frames and lids, Type 5, Open lid cast base not used.

**DESIGN STRESSES**

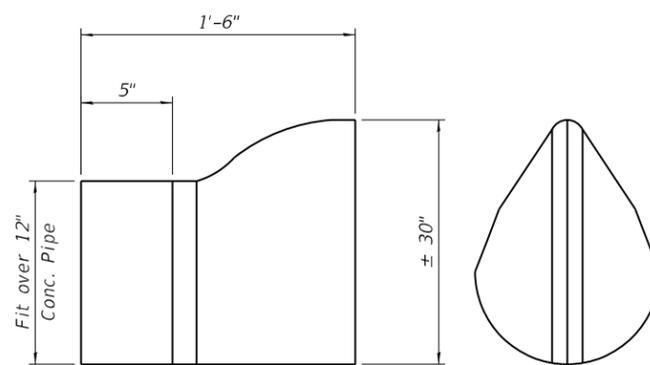
$f'c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



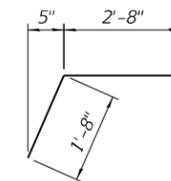
**TYPE Z LADDER RUNG ELEVATIONS**



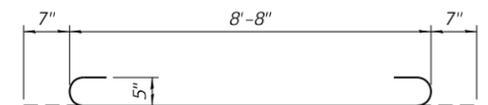
**TYPE Z LADDER RUNG PLAN**



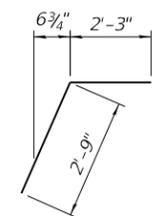
**DETAIL A  
ELASTOMERIC CHECK VALVE**



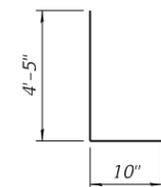
**BAR h12(E)**



**BAR a10(E)**



**BAR h14(E)**



**BAR v11(E)**

FILE NAME = Q:\Engineering\LiveProjects\13840\_IDOT DUR HBM\Work Order 21-62092\CADD\CADD Sheets\Structural\16021-sht-Junction Chamber 2 Details-III.dgn



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PLOT DATE = 12/12/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**JUNCTION CHAMBER DETAILS - III  
CHICAGO HEIGHTS-GLENWOOD RD AT THORN CREEK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	44
CONTRACT NO.			62G92	
ILLINOIS FED. AID PROJECT				

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

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

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FILE NAME: 1



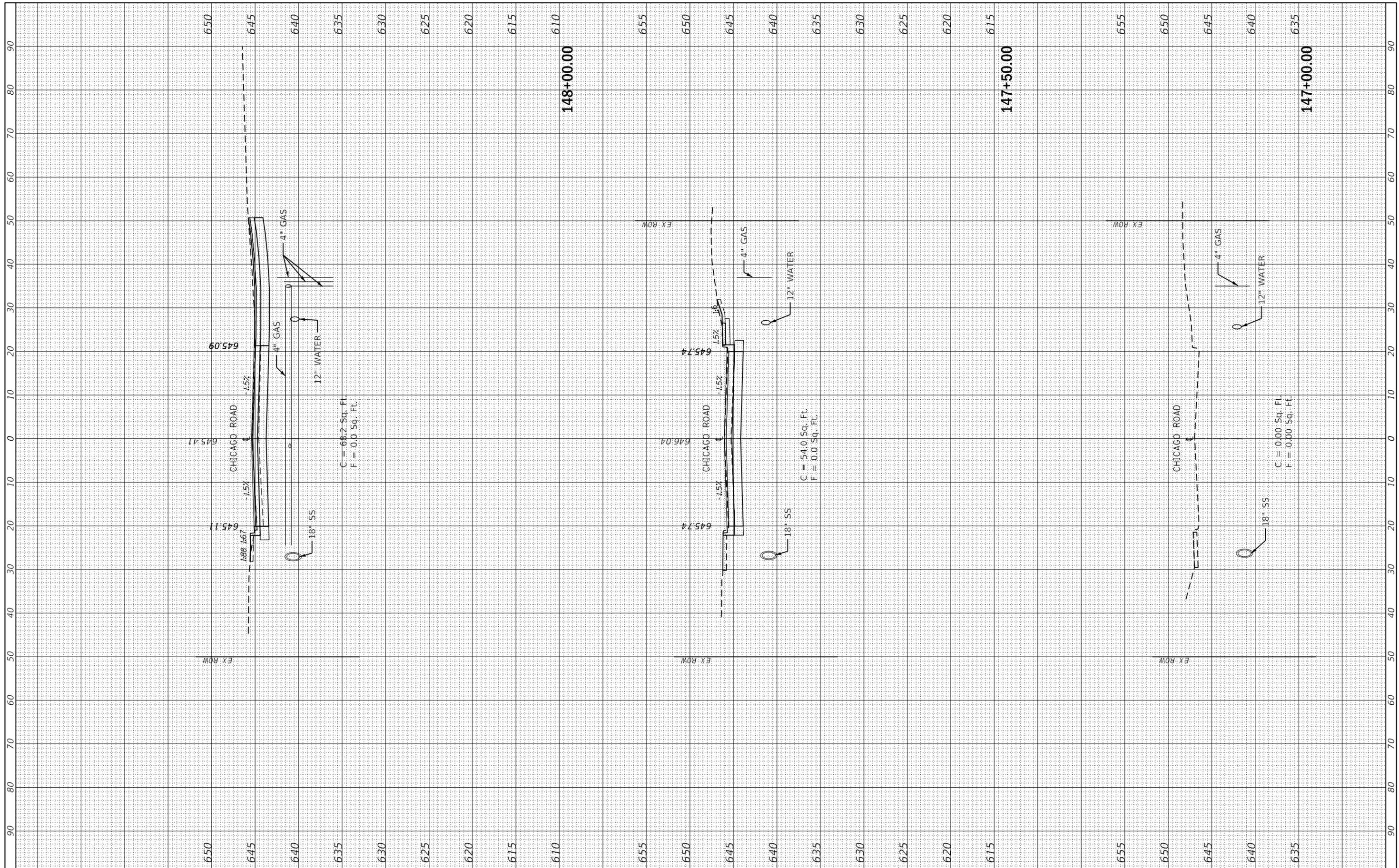
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PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 1 OF 14 SHEETS STA. 147+00.00 TO STA. 148+00.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	



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

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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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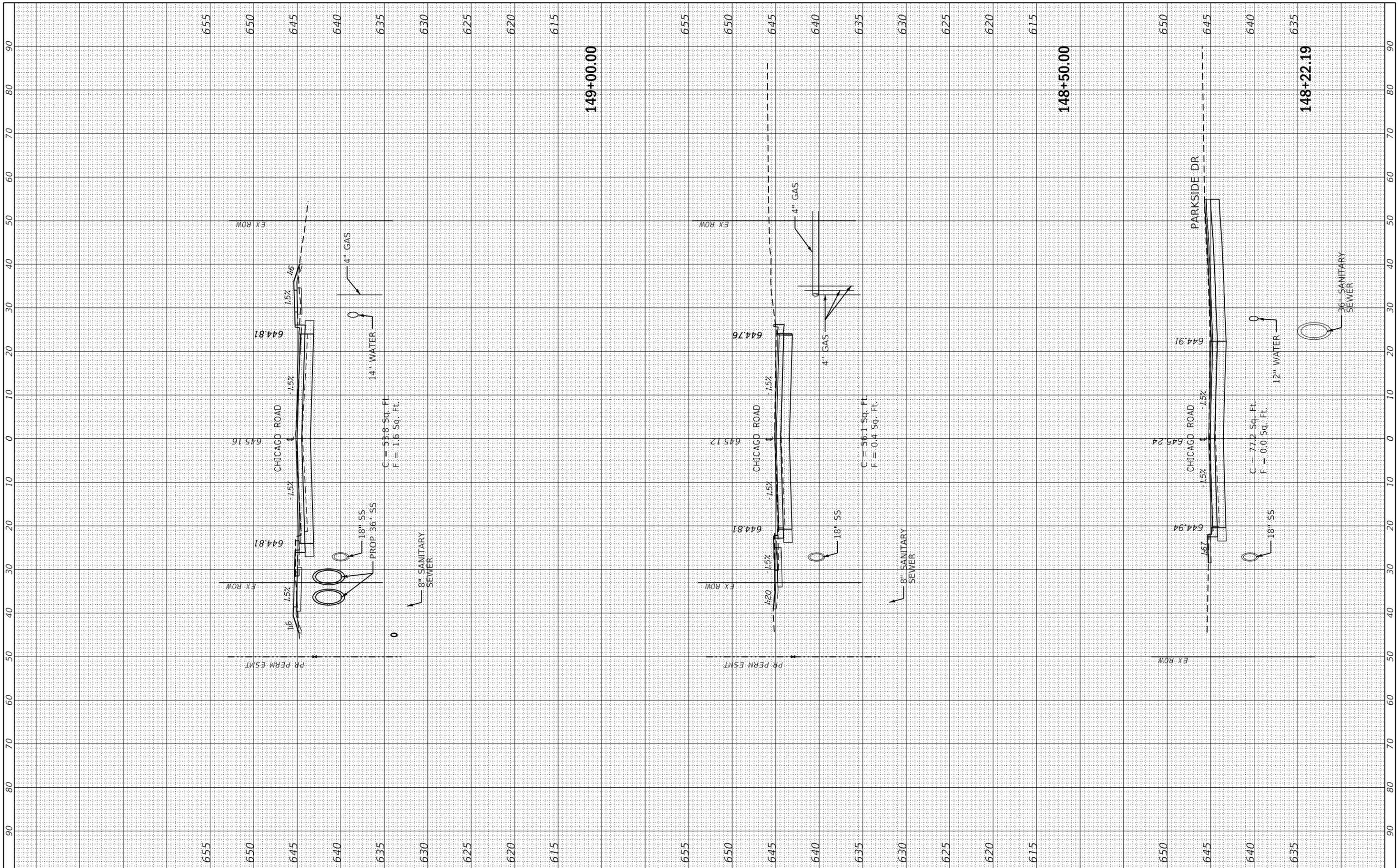
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PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

SCALE: SHEET 2 OF 14 SHEETS STA. 148+22.19 TO STA. 149+00.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	



149+00.00

148+50.00

148+22.19

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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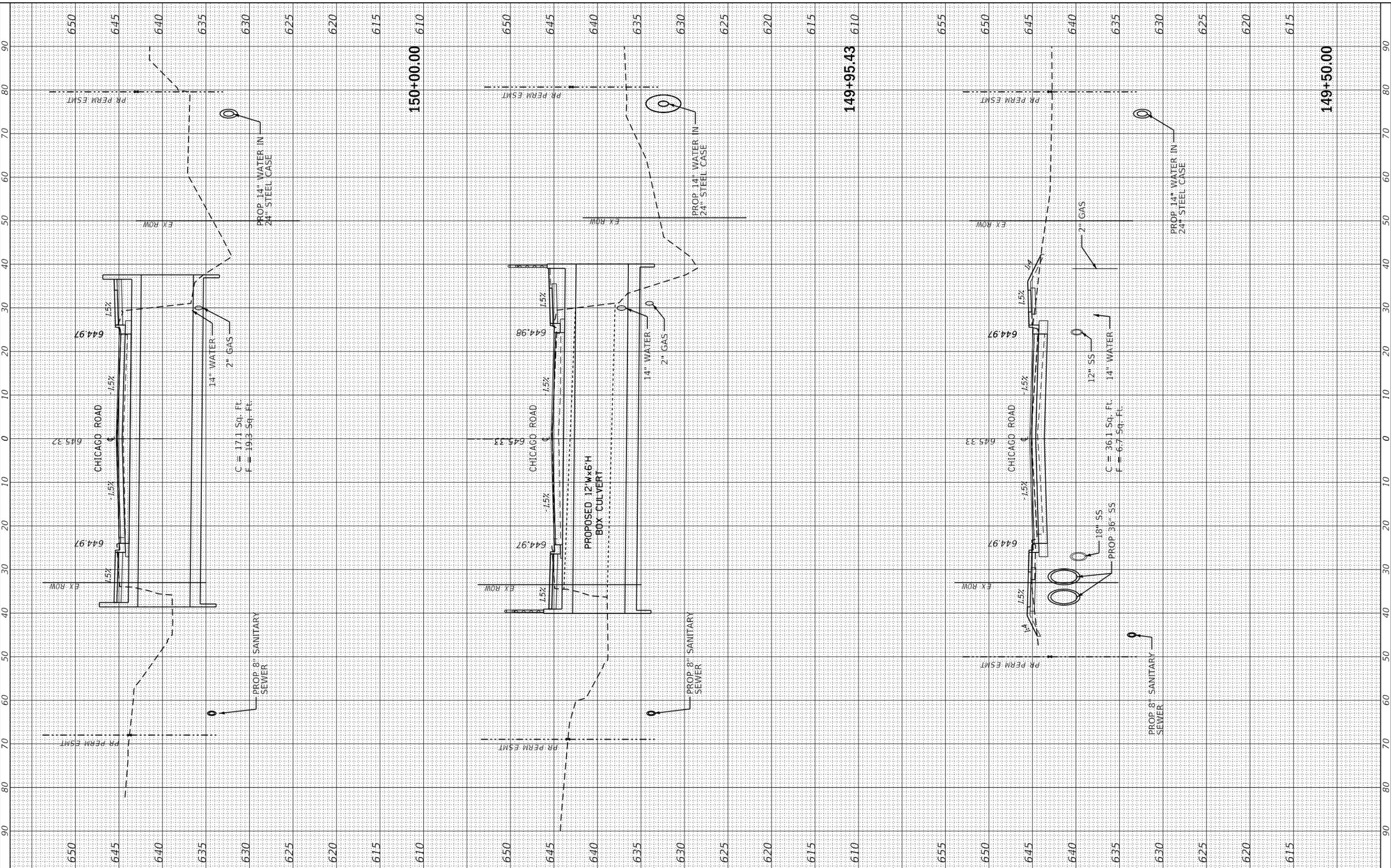


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PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	
SCALE:	SHEET 3 OF 14 SHEETS STA. 149+50.00 TO STA. 150+00.00

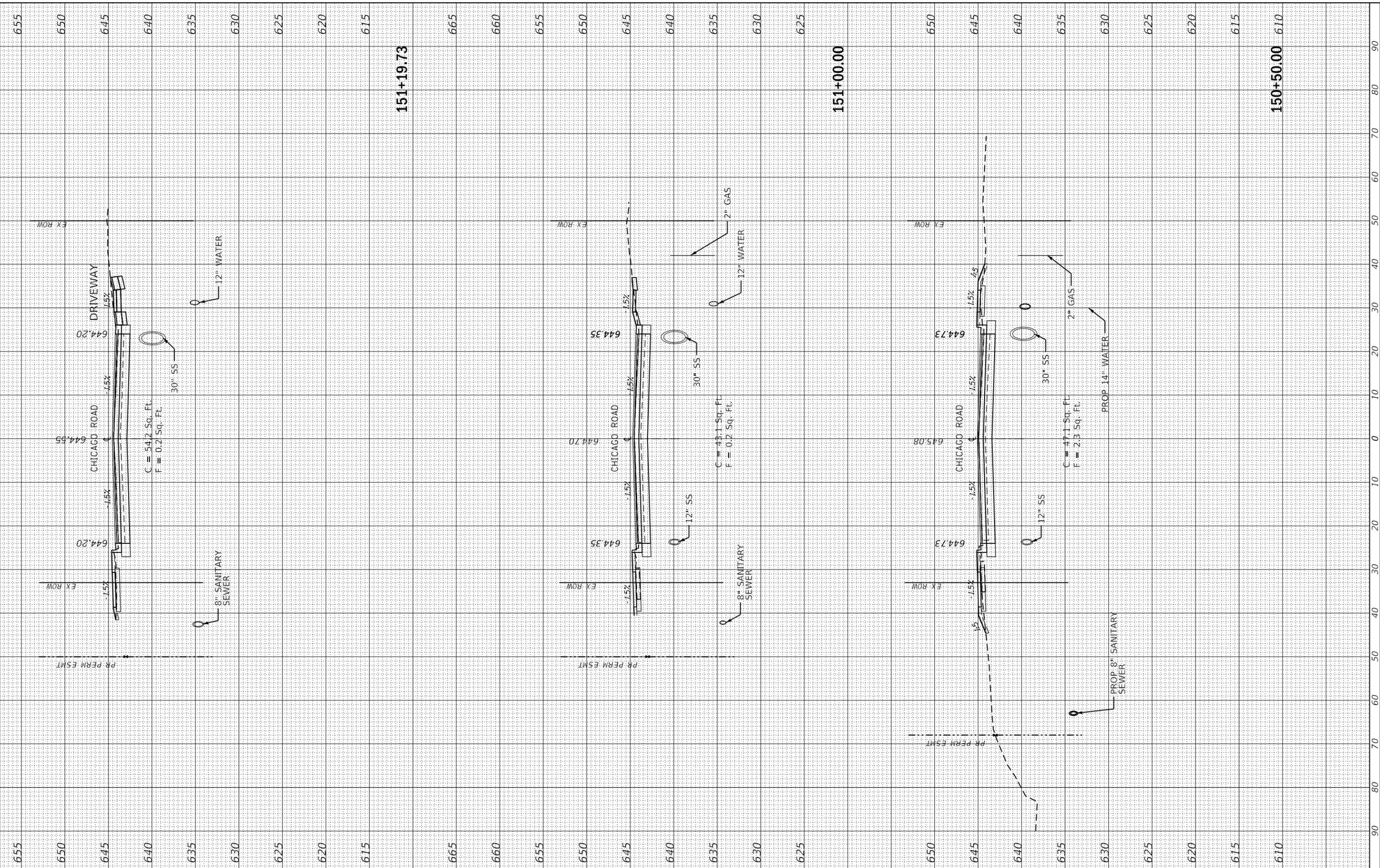
F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 47
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



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

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

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PLOT SCALE = 20.0000' / in.	DRAWN - AB	REVISED -
PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	
SCALE:	SHEET 4 OF 14 SHEETS
	STA. 150+50.00 TO STA. 151+19.73

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 48
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

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

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

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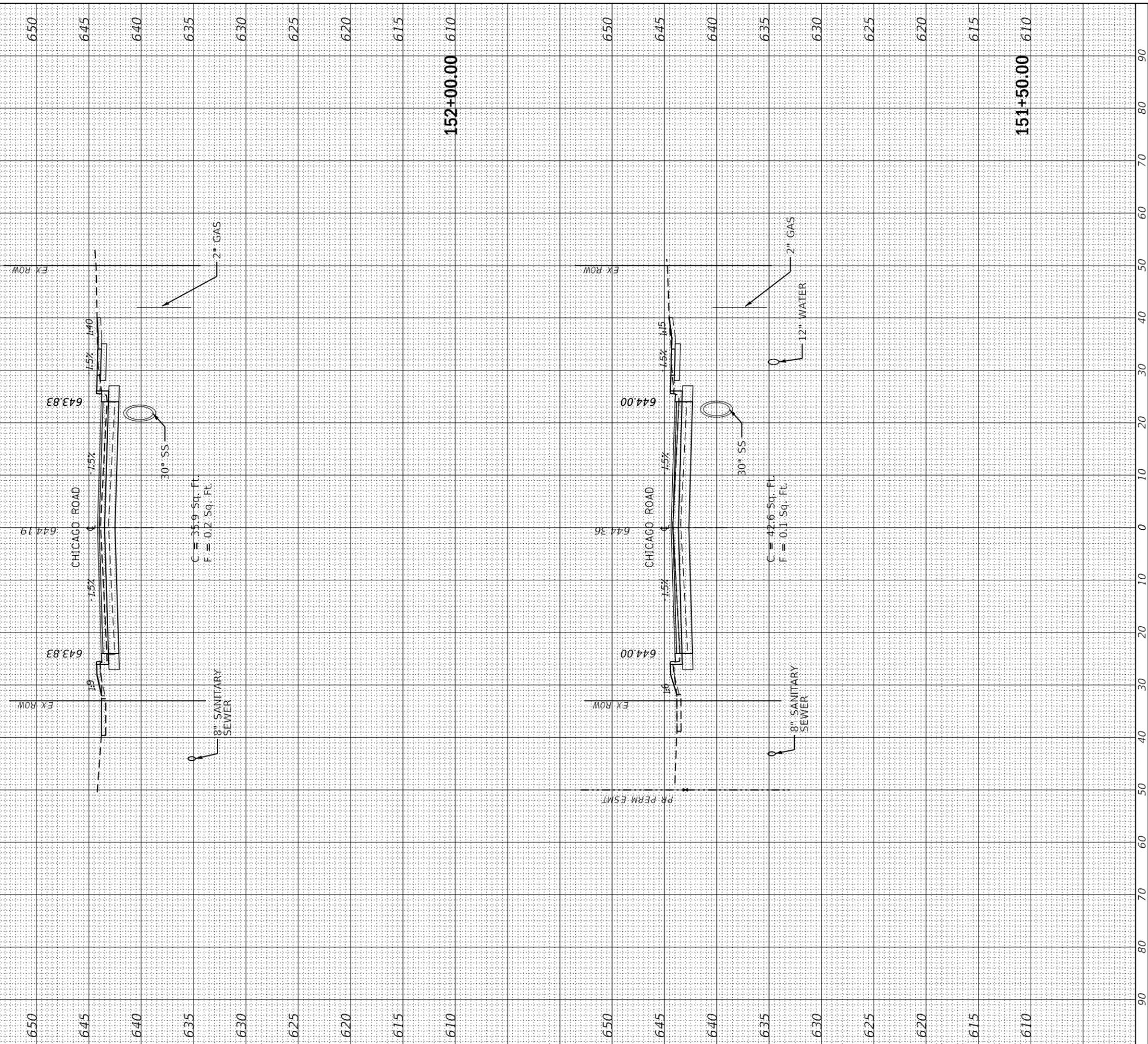
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	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 5 OF 14 SHEETS STA. 151+50.00 TO STA. 152+00.00

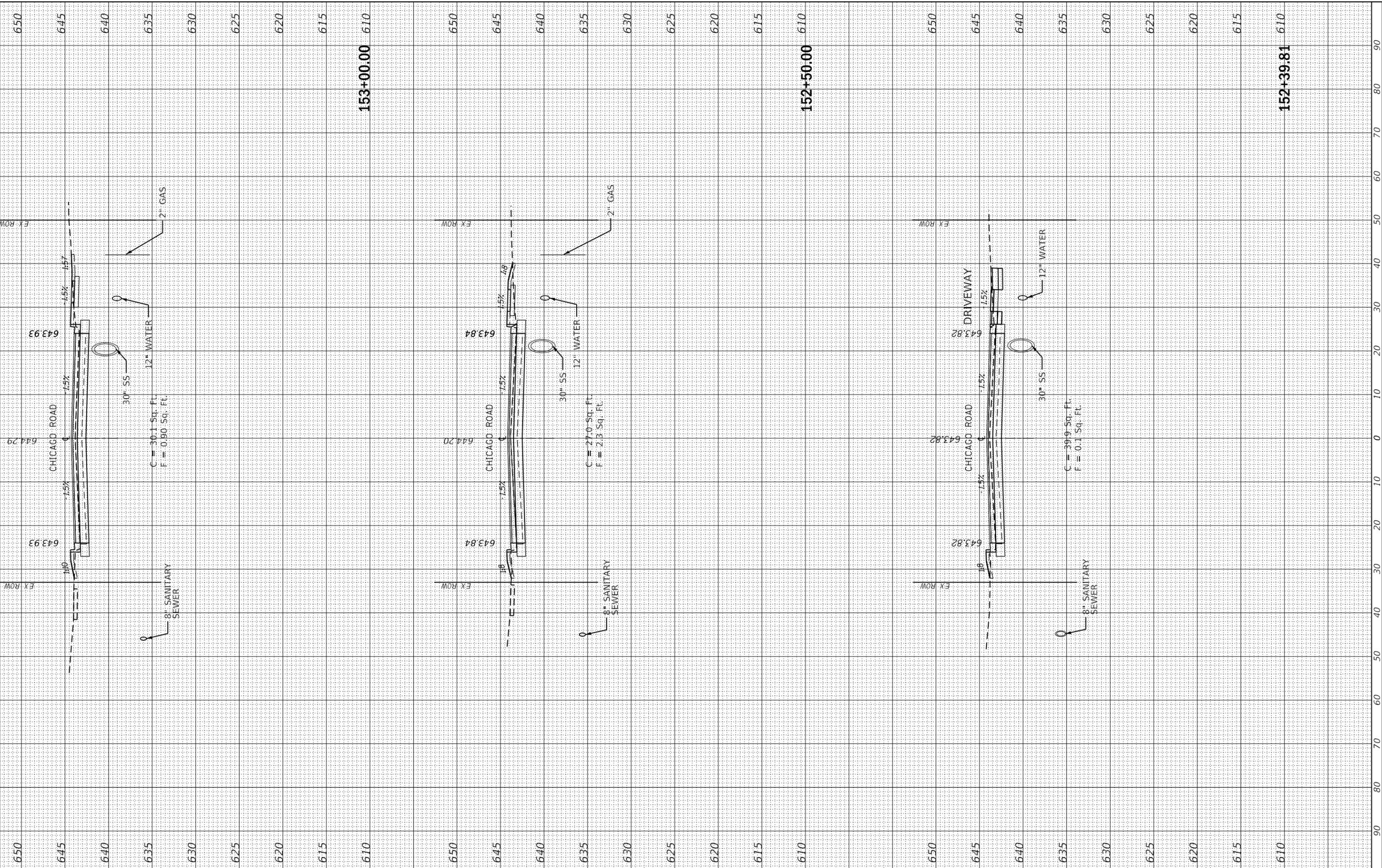
F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 49
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



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

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

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FILE NAME: 1



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	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	
SCALE:	SHEET 6 OF 14 SHEETS
	STA. 152+39.81 TO STA. 153+00.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 50
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit  
FILE NAME: 1



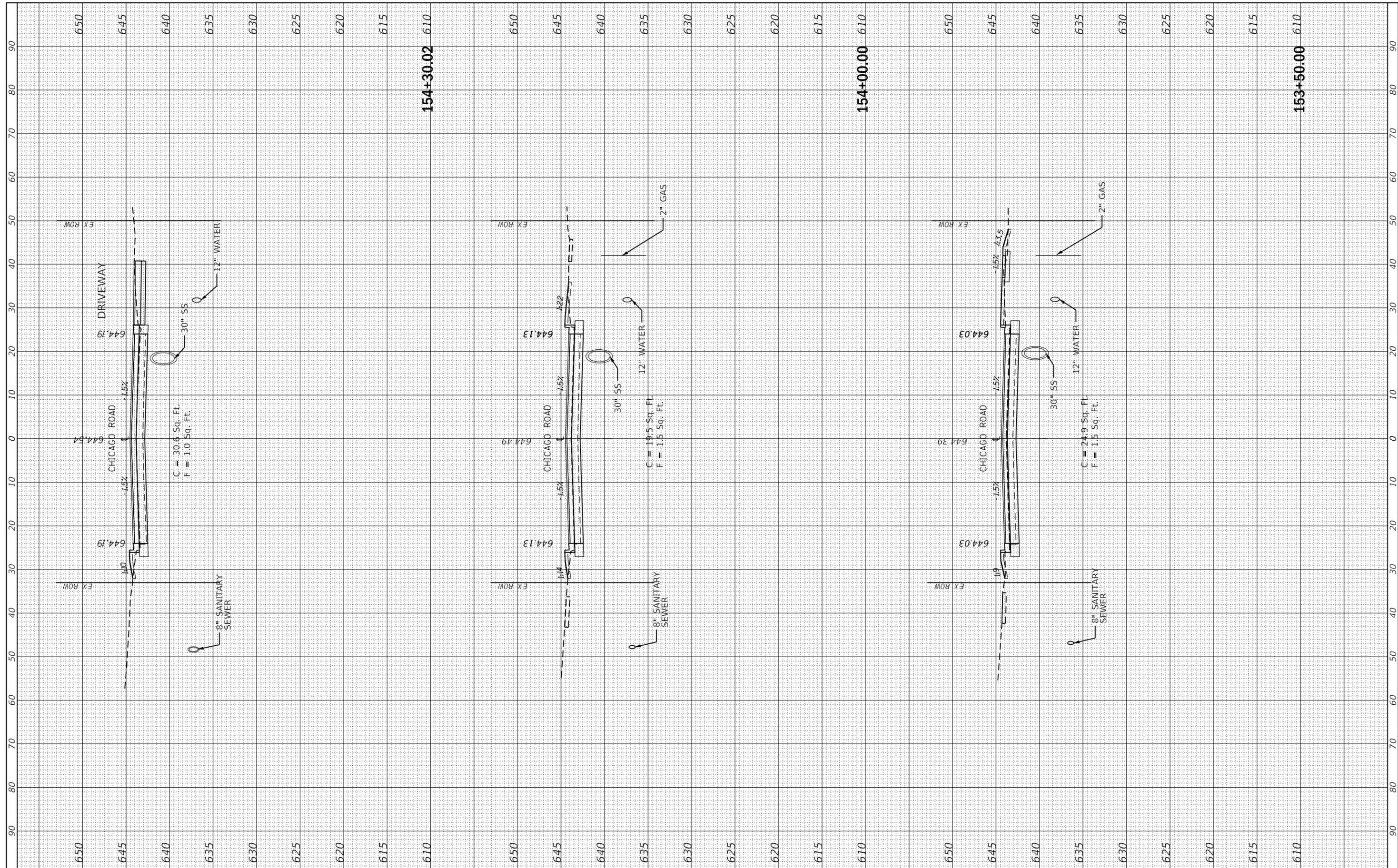
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 7 OF 14 SHEETS STA. 153+50.00 TO STA. 154+30.02

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	



154+30.02 610

154+00.00 610

153+50.00 610

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

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

MODEL DEFINIT FILE NAME:



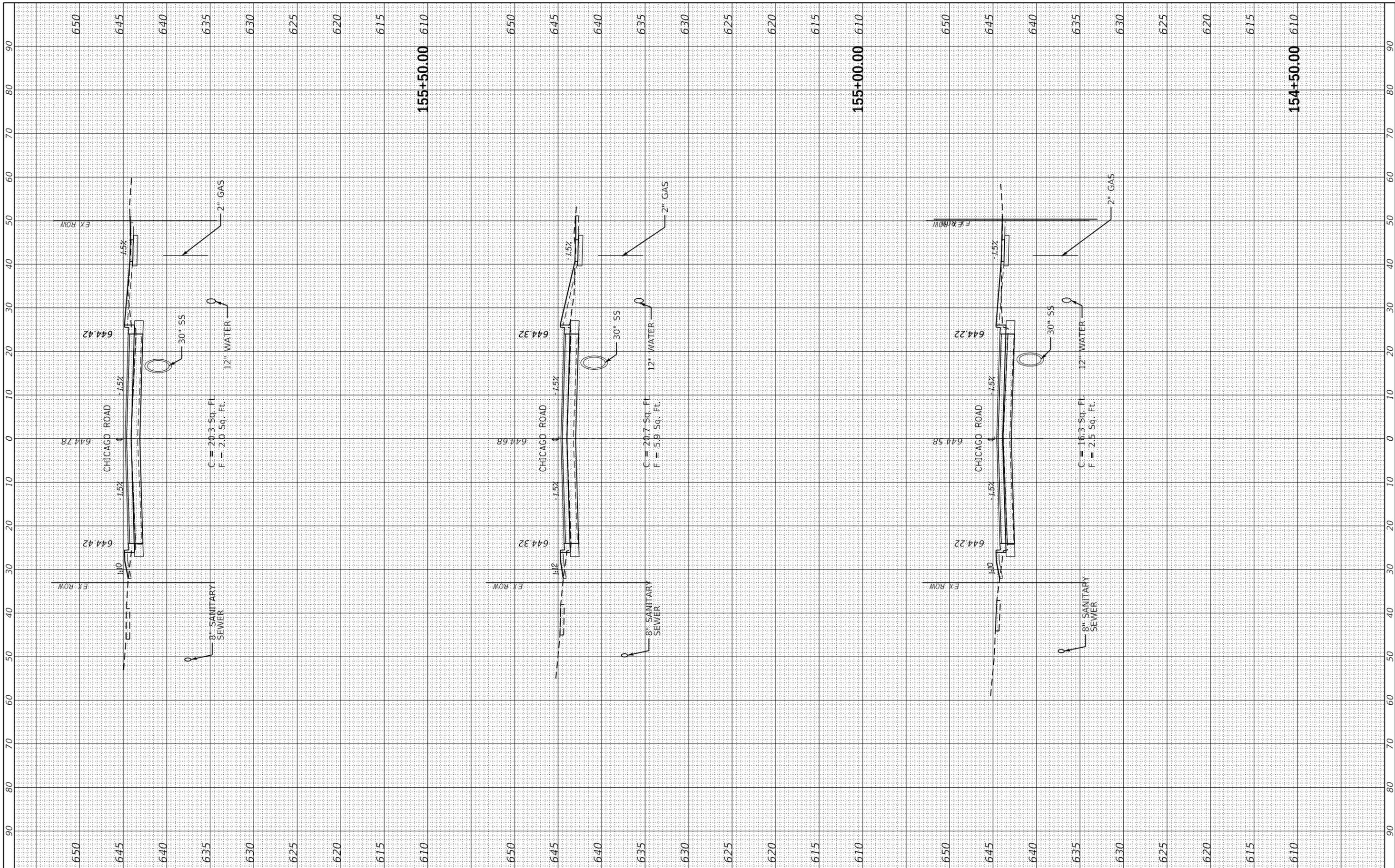
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	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 8 OF 14 SHEETS STA. 154+50.00 TO STA. 155+50.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 52
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				



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

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

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FILE NAME: 1



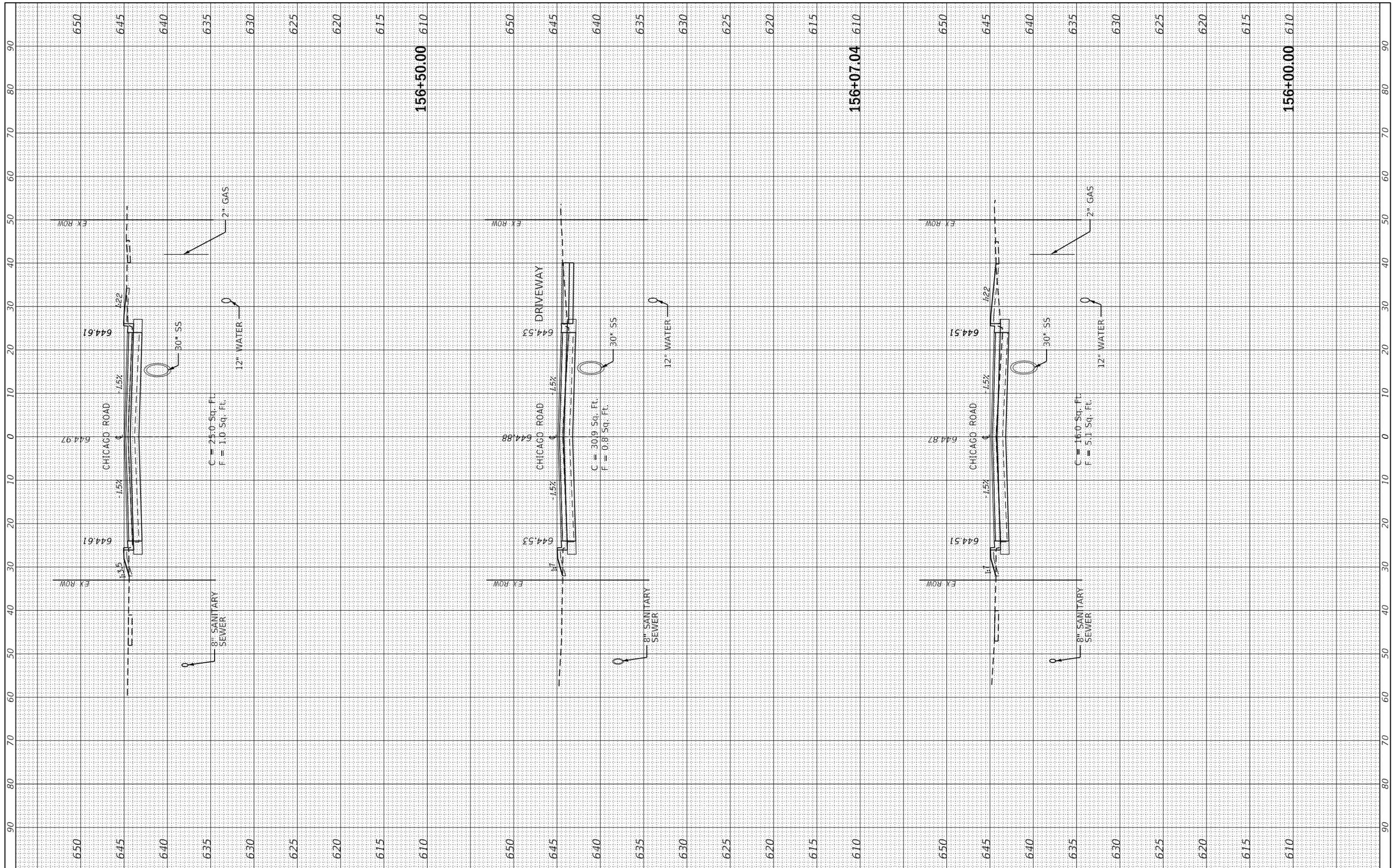
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PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY

SCALE: SHEET 9 OF 14 SHEETS STA. 156+00.00 TO STA. 156+50.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 53
			CONTRACT NO. 62G92	
ILLINOIS FED. AID PROJECT				



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

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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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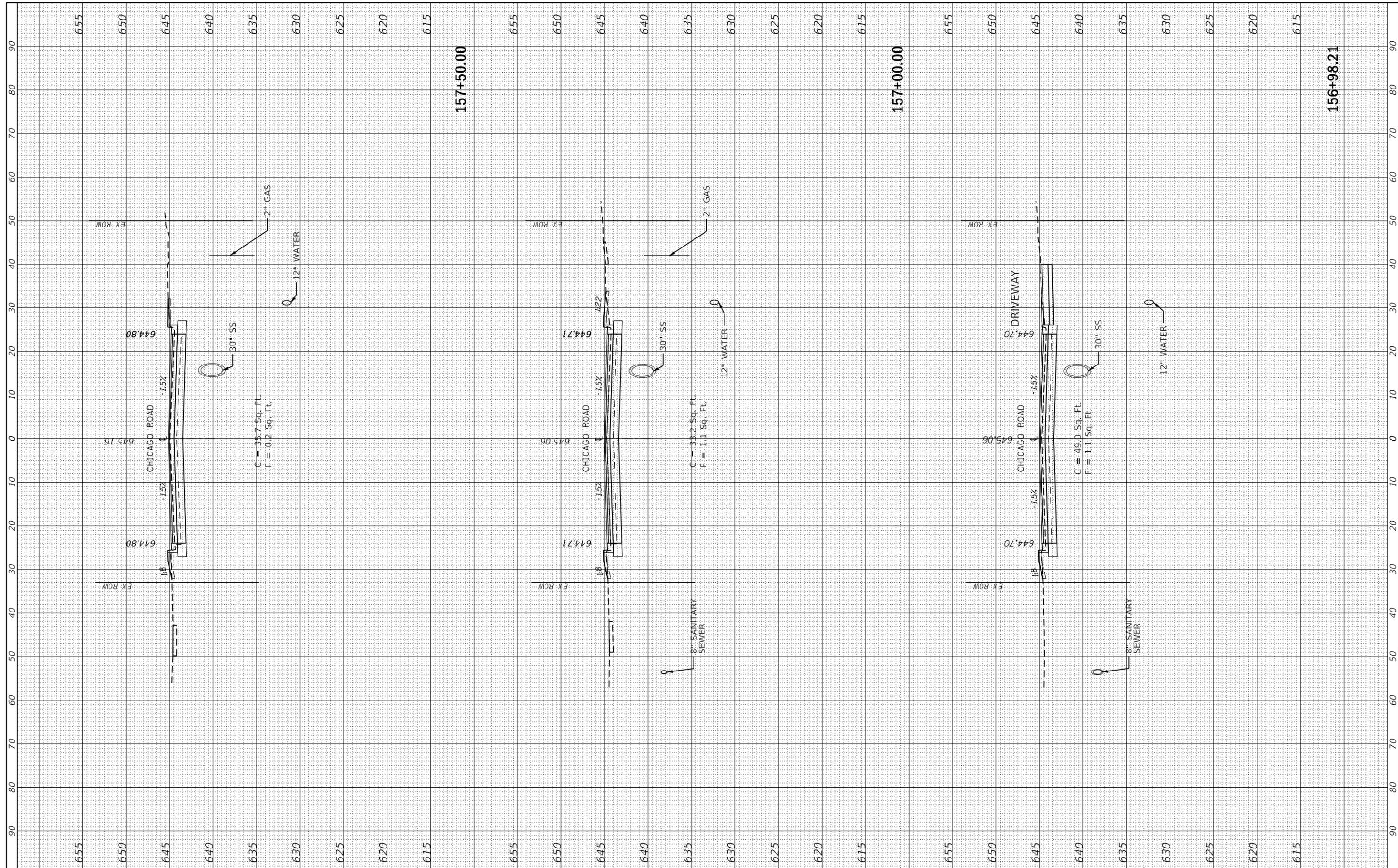
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PLOT DATE = 1/17/2020	CHECKED - LRC	REVISED -
	DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 10 OF 14 SHEETS STA. 156+98.21 TO STA. 157+50.00

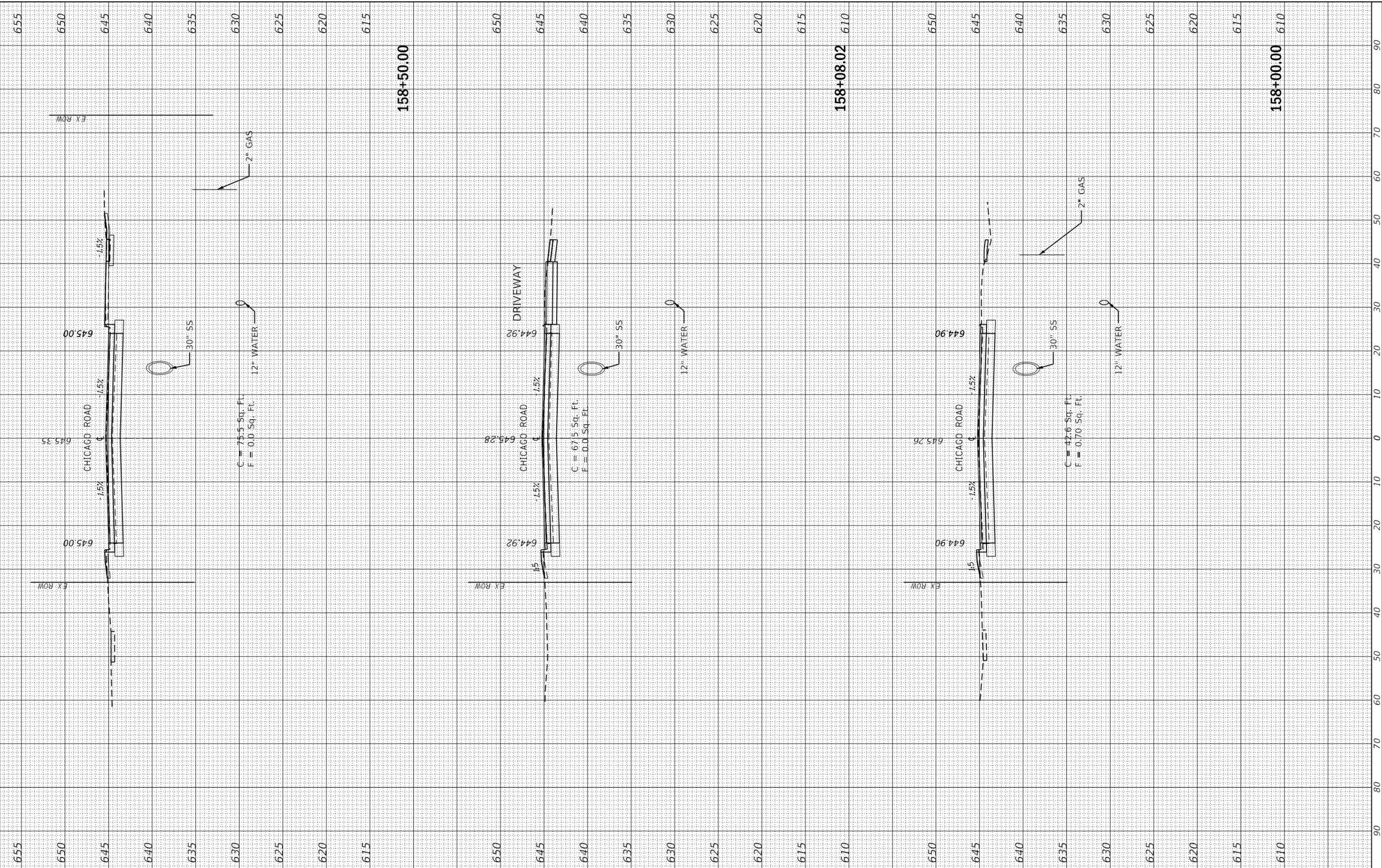
F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 54
			CONTRACT NO. 62G92	
ILLINOIS		FED. AID PROJECT		



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

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

MODEL: Definit  
FILE NAME: 1



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DESIGNED - AB	REVISED -
DRAWN - AB	REVISED -
CHECKED - LRC	REVISED -
DATE - 08/16/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	
SCALE:	SHEET 11 OF 14 SHEETS
	STA. 158+00.00 TO STA. 158+50.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 55
CONTRACT NO. 62G92				
ILLINOIS FED. AID PROJECT				

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

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NOTE BOOK NO.	TEMPLATE		

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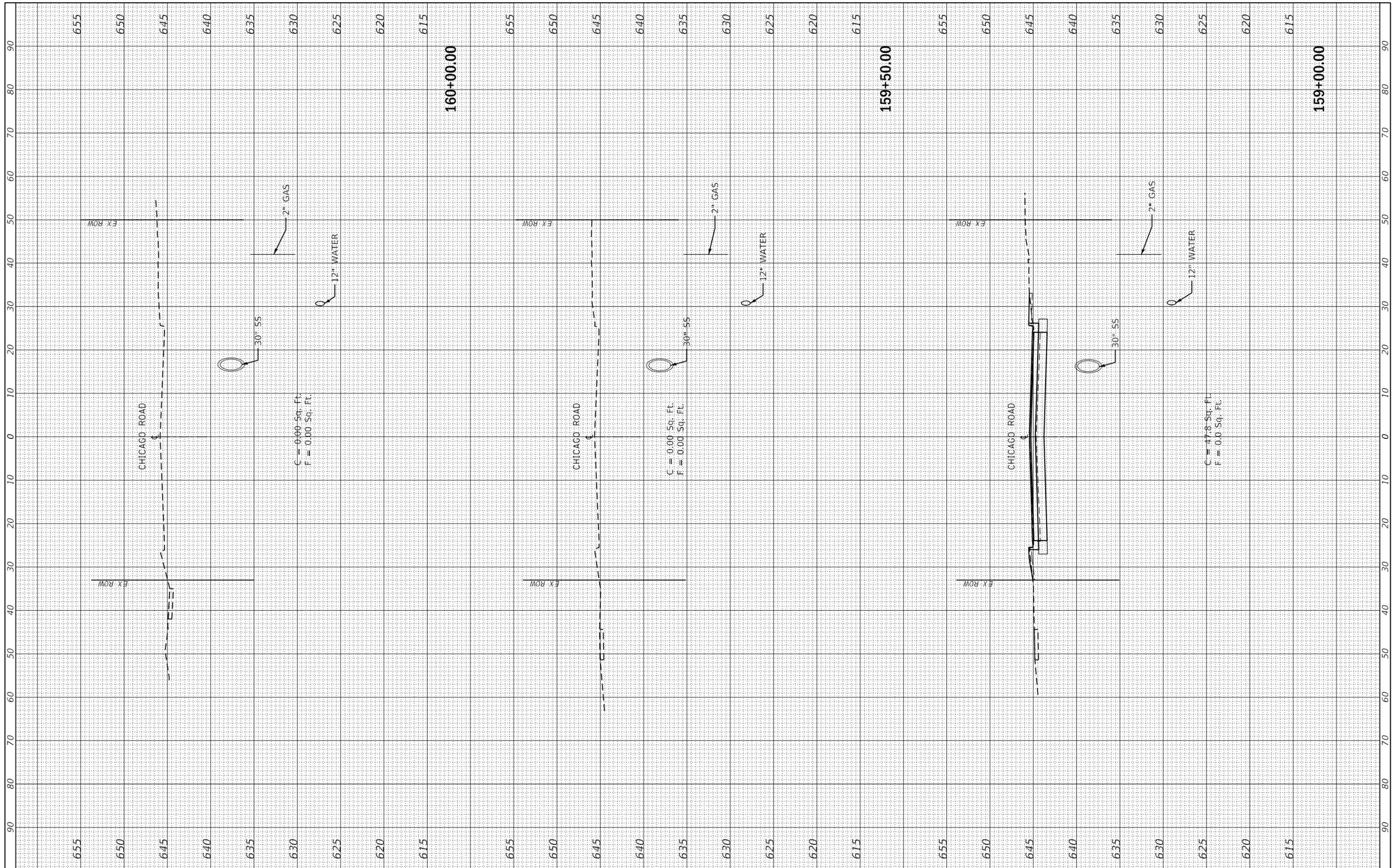
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
CHICAGO ROAD OVER THORN CREEK TRIBUTARY**

SCALE: SHEET 12 OF 14 SHEETS STA. 159+00.00 TO STA. 160+00.00

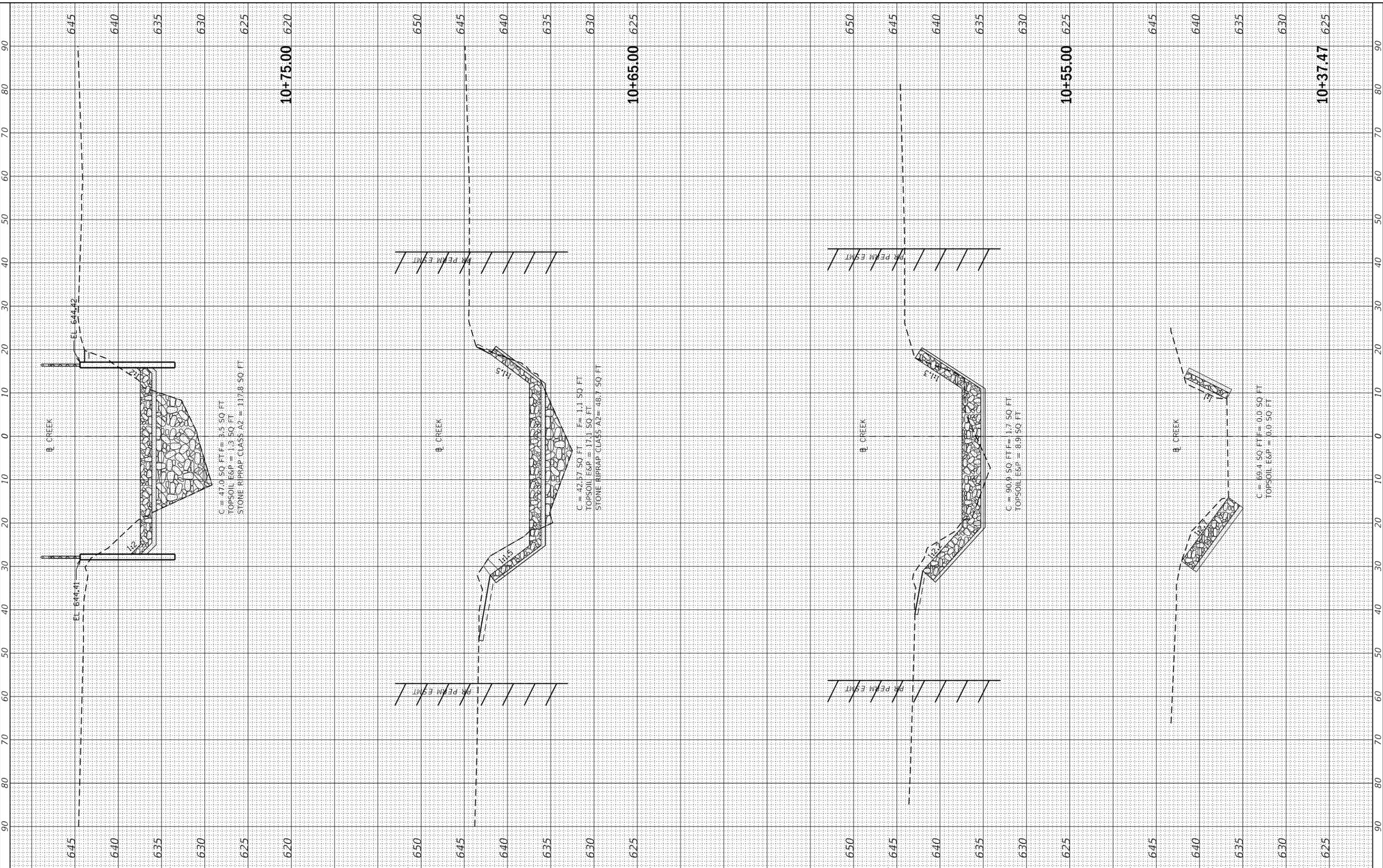
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	



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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

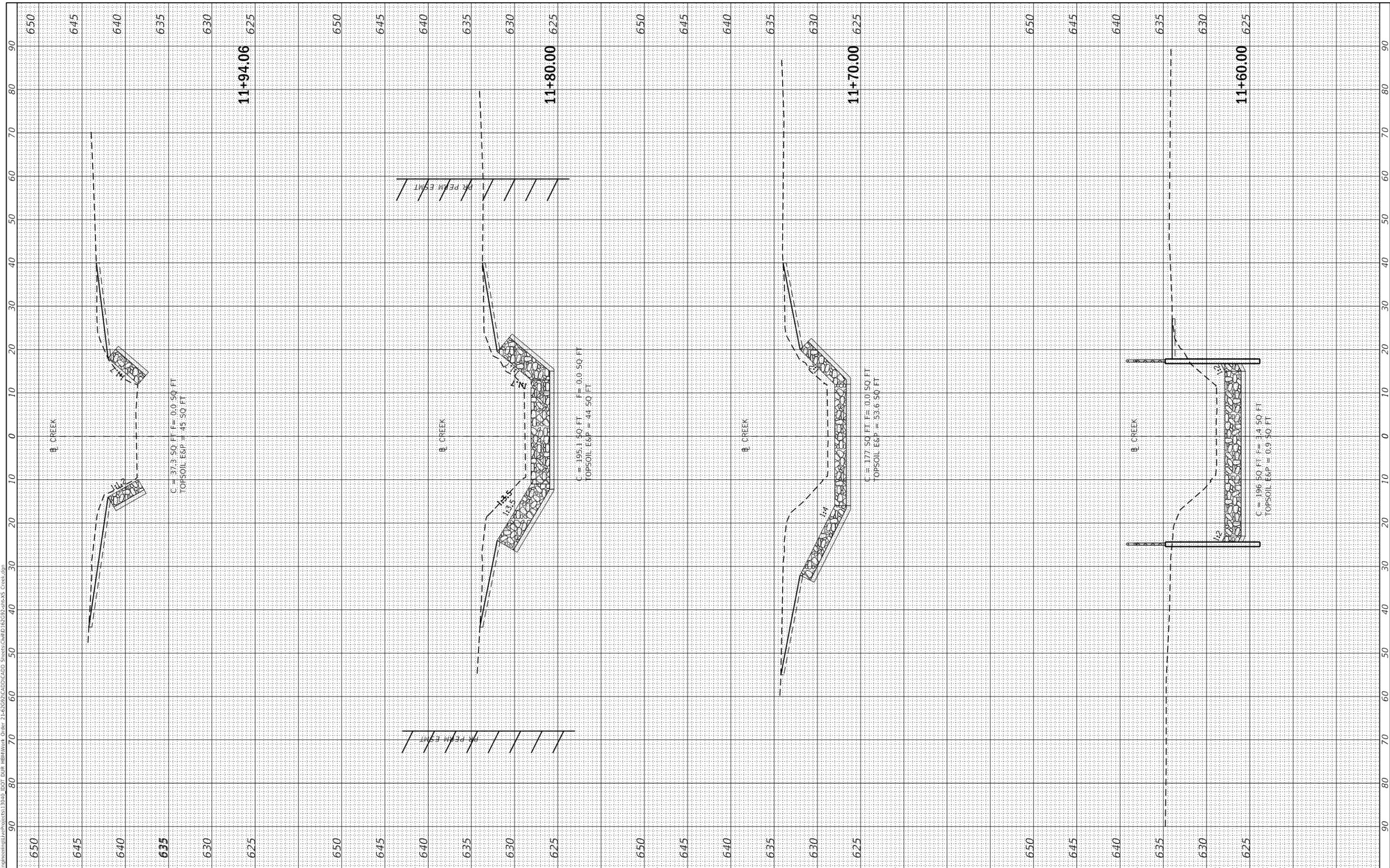
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<b>CHICAGO ROAD OVER THORN CREEK TRIBUTARY</b>	
SCALE:	SHEET 13 OF 14 SHEETS
	STA. 10+55.00 TO STA. 10+75.00

F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C92	

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

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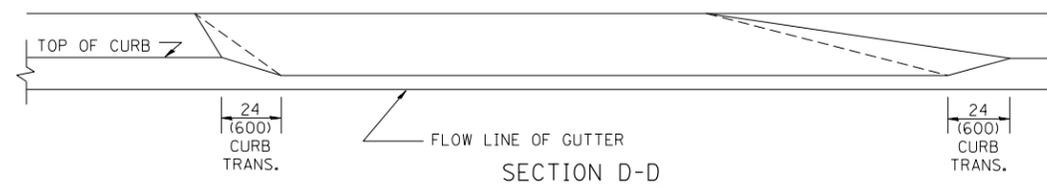
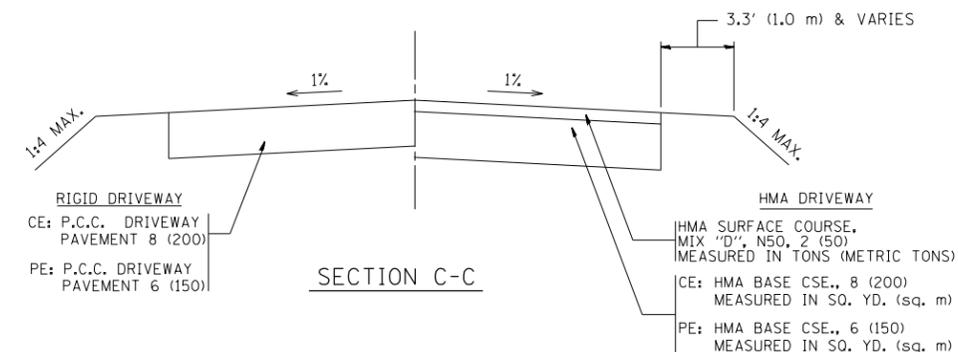
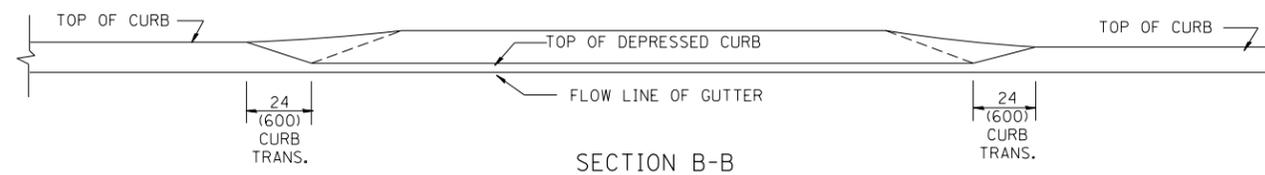
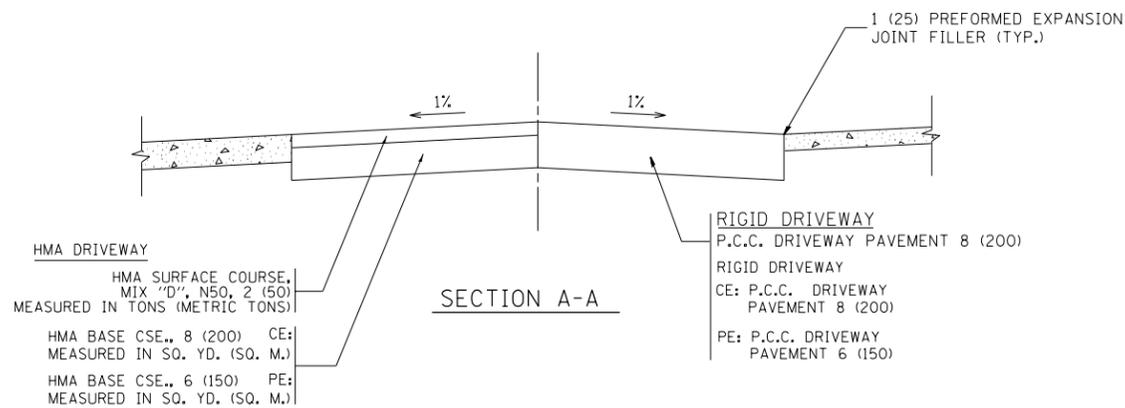
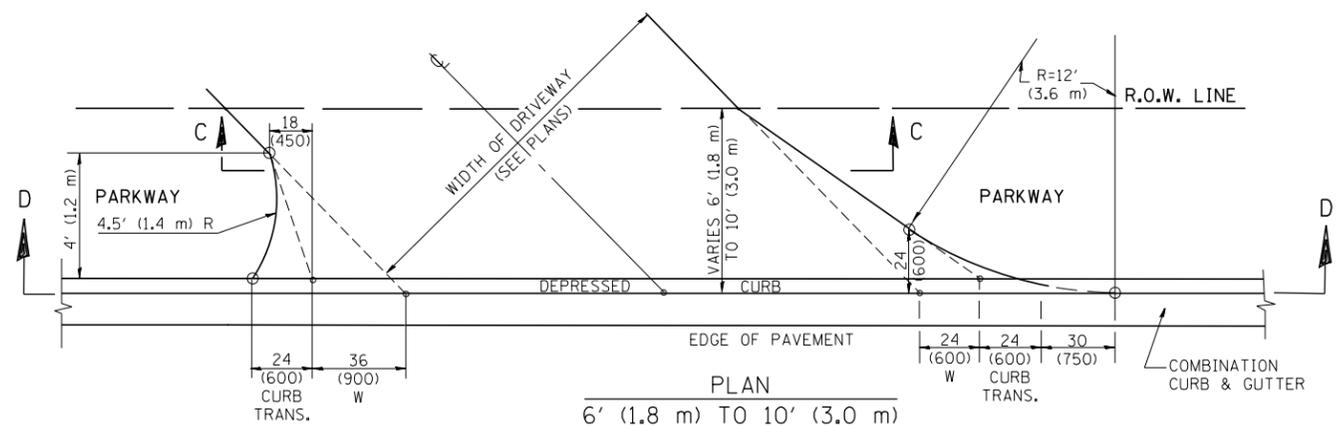
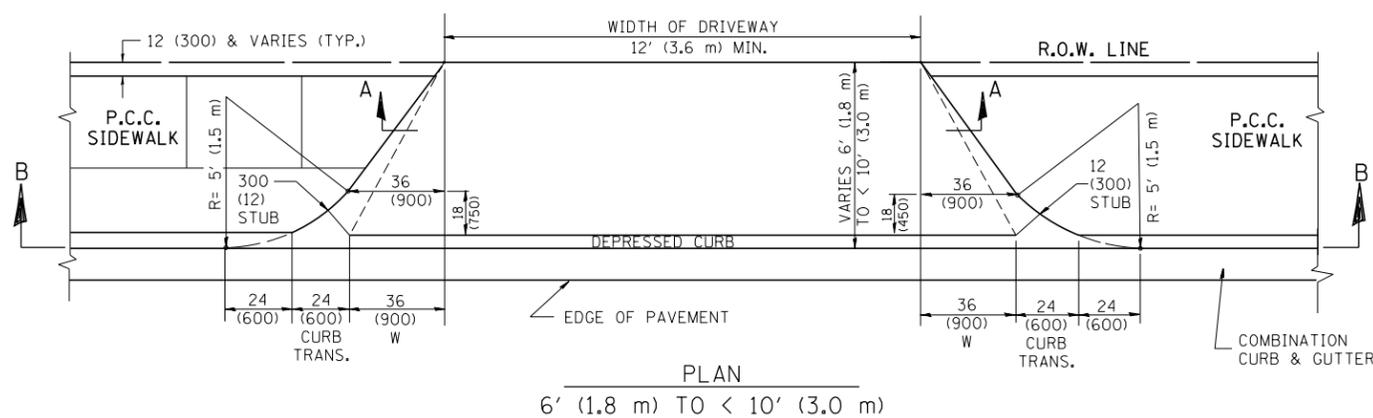
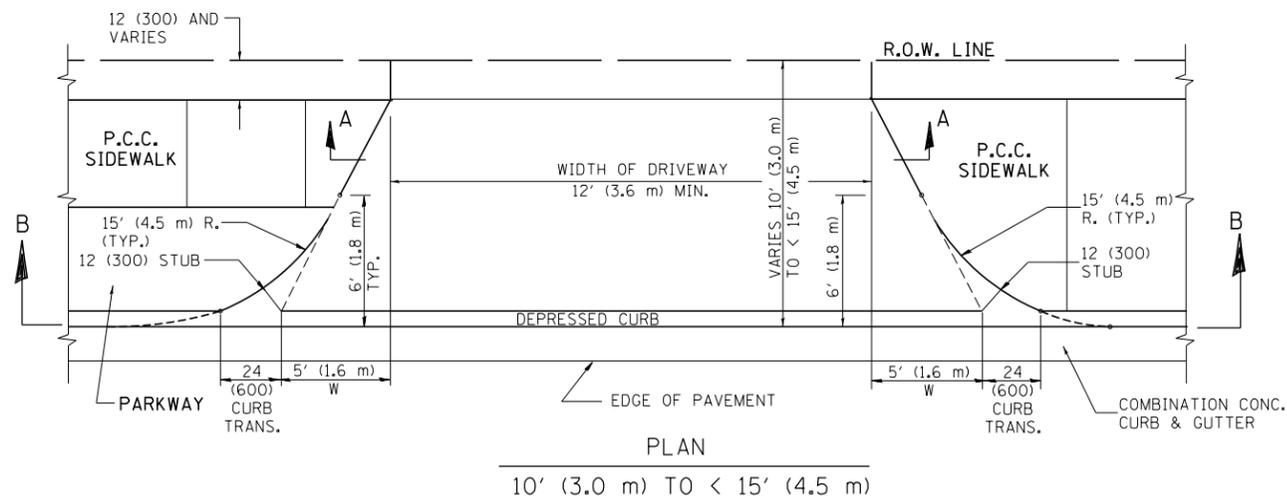


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	DATE - 09/26/2019	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:		CROSS SECTIONS	
		CHICAGO ROAD OVER THORN CREEK TRIBUTARY	
SHEET 14	OF 14 SHEETS	STA. 11+60.00	TO STA. 11+80.00

F.A.U. RTE. 2860	SECTION 2018-05-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G92	



**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 P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

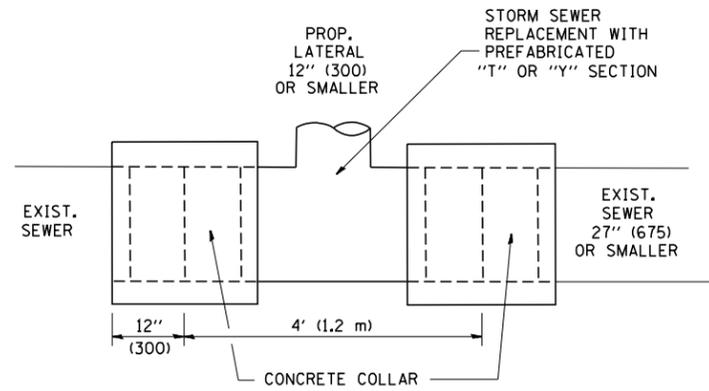
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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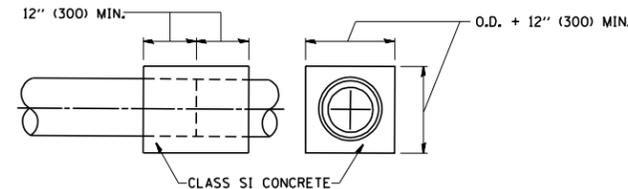
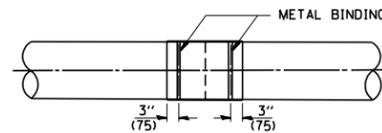
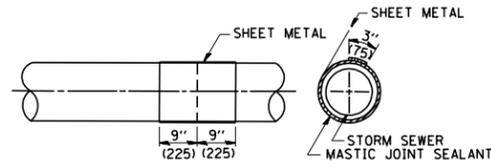
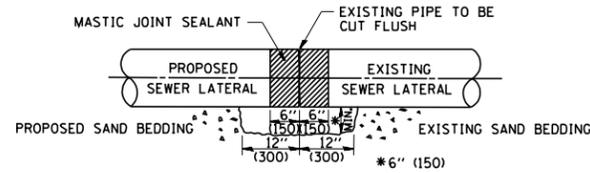
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>DISTANCE BETWEEN ROW AND FACE OF CURB &lt; 15' (4.5 m)</b>		2860	2018-055-CR	COOK	67	59
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 62G92		
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**DETAIL "A"**

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

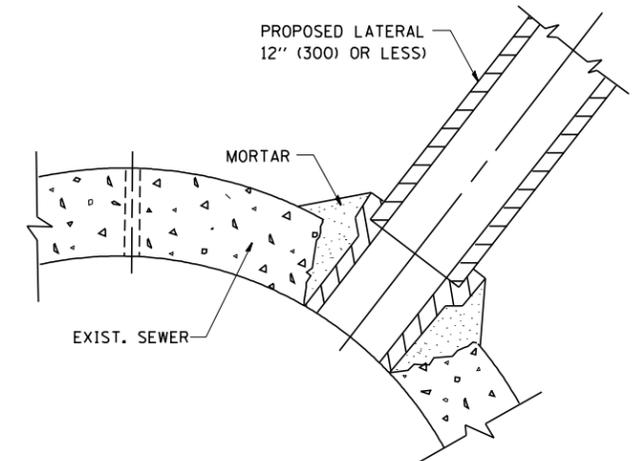


**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE 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 OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**

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

**NOTES**

**MATERIAL**

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

**CONSTRUCTION METHODS**

- 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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	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

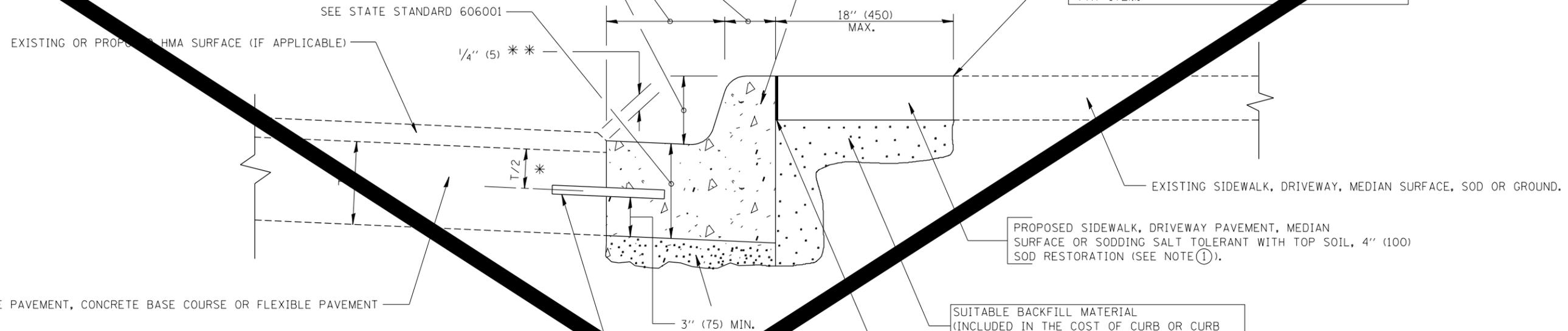
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018 - 055 - CR	COOK	67	60
<b>BD500-01 (BD-7)</b>		CONTRACT NO. 62G92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**SHEET DELETED**

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.



PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

\* 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.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

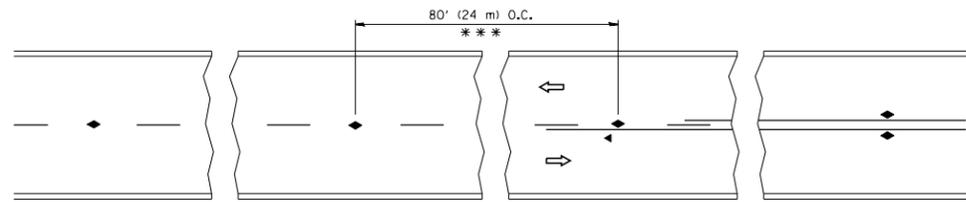
⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

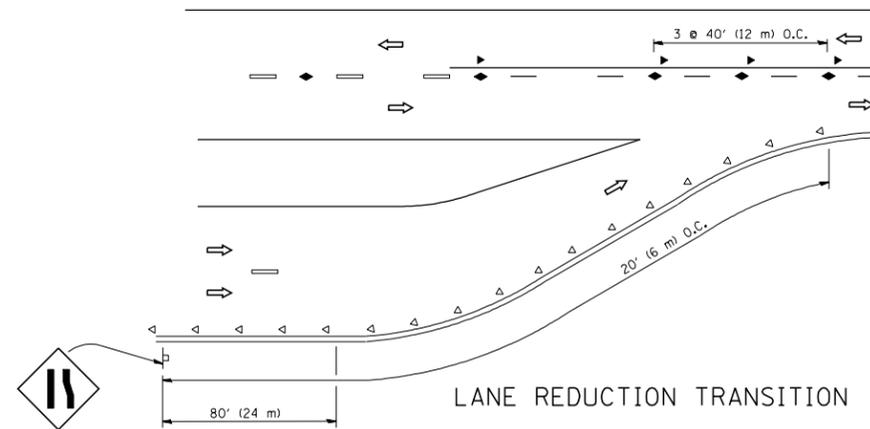
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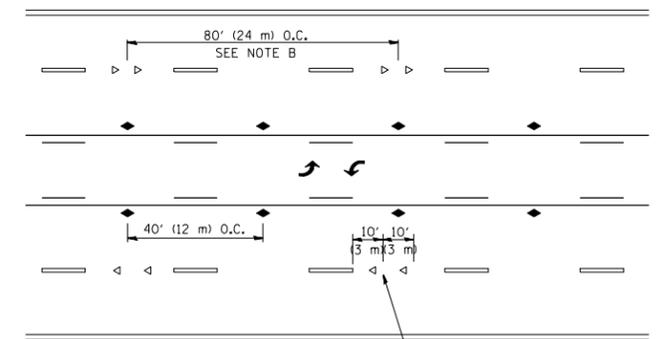


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

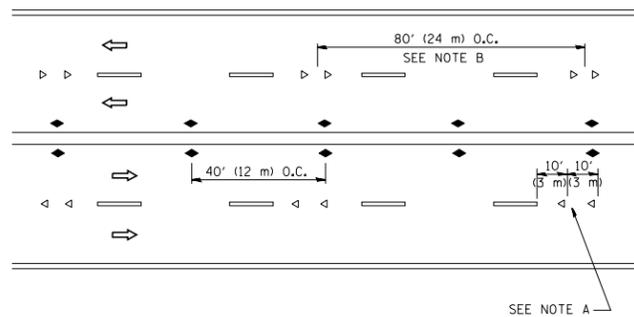
TWO-LANE/TWO-WAY



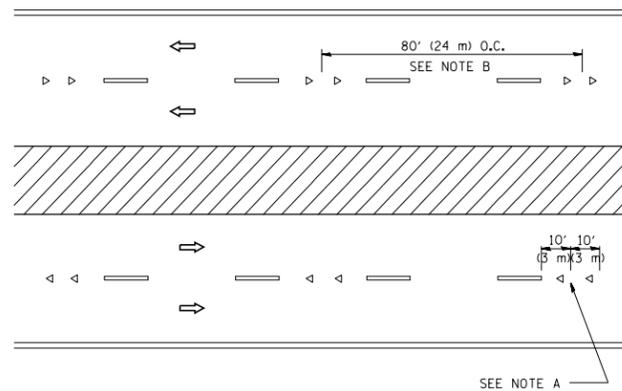
LANE REDUCTION TRANSITION



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.

SYMBOLS

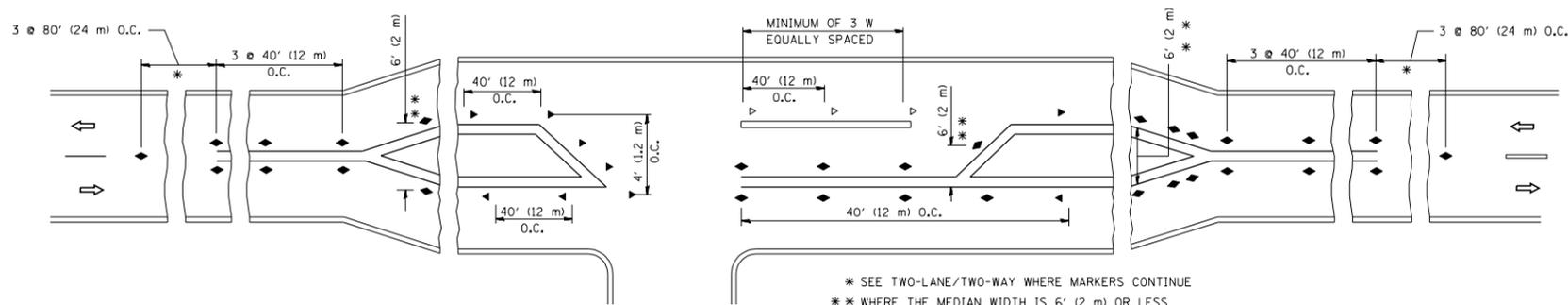
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

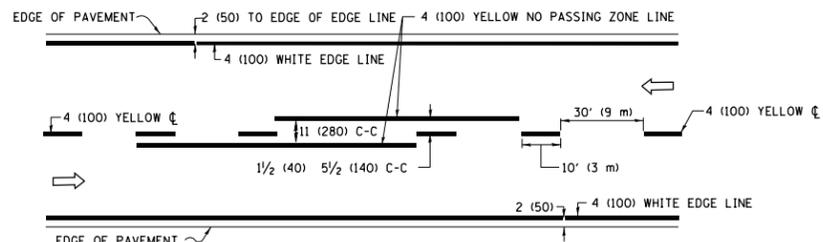
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

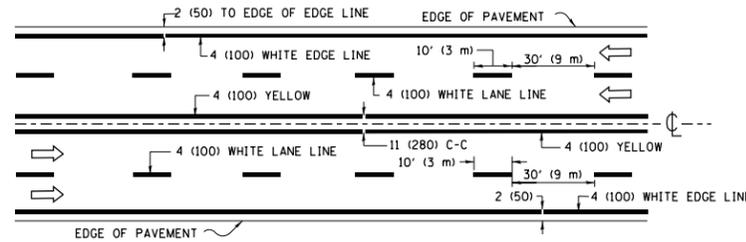
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

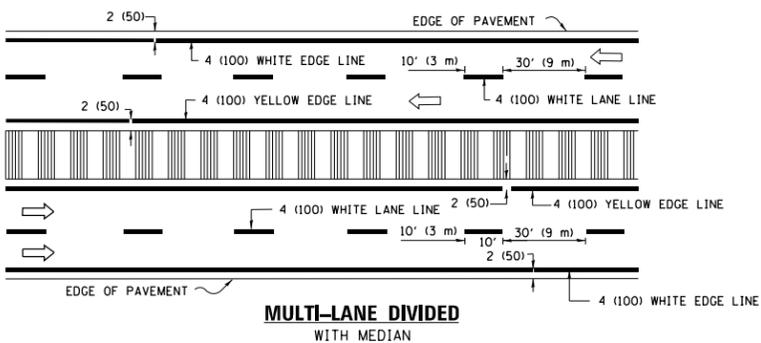
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	63
TC-11			CONTRACT NO. 62G92	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

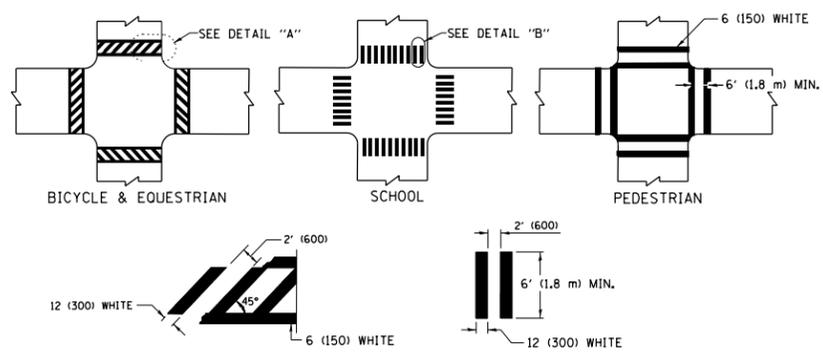


**MULTI-LANE UNDIVIDED**



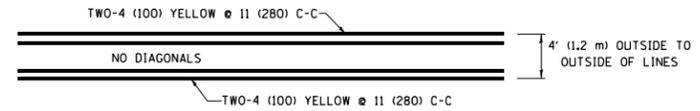
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

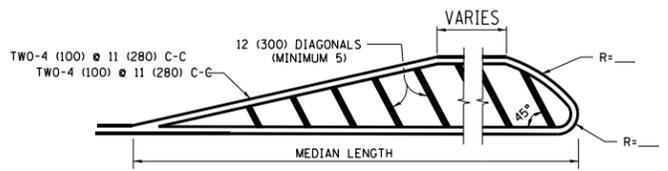


**TYPICAL CROSSWALK MARKING**

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

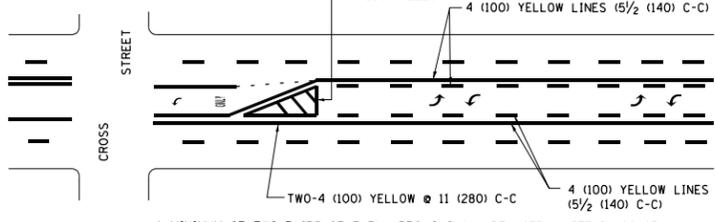


**4' (1.2 m) WIDE MEDIANS ONLY**

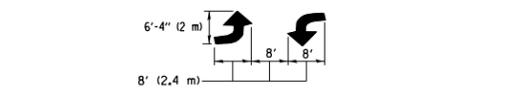


**MEDIANS OVER 4' (1.2 m) WIDE**

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

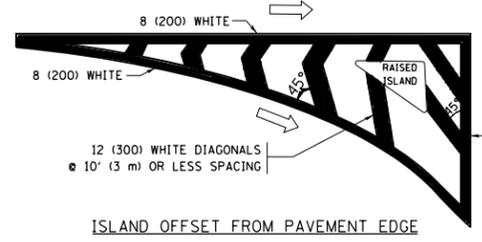


**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

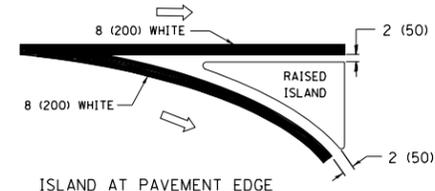


**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

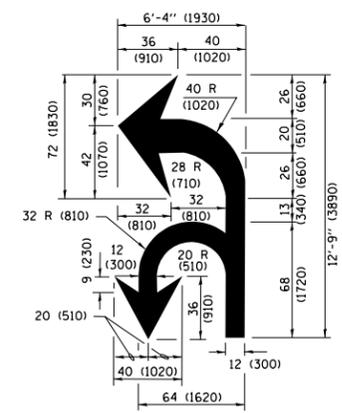
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



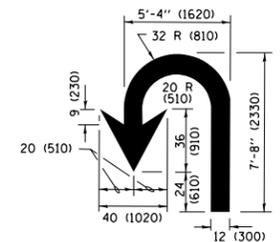
**ISLAND OFFSET FROM PAVEMENT EDGE**



**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	5/2 (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' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (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 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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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Default	PLOT SCALE = 50.000' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A.U. RTE. 2860	SECTION 2018-055-CR	COUNTY COOK	TOTAL SHEETS 67	SHEET NO. 64
<b>TC-13</b>		CONTRACT NO. 62G92		
ILLINOIS FED. AID PROJECT				

**ROUTE MARKERS**

 FOR U.S. ROUTES  
MI-40-2424

 FOR ILLINOIS ROUTES  
MI-50-2424

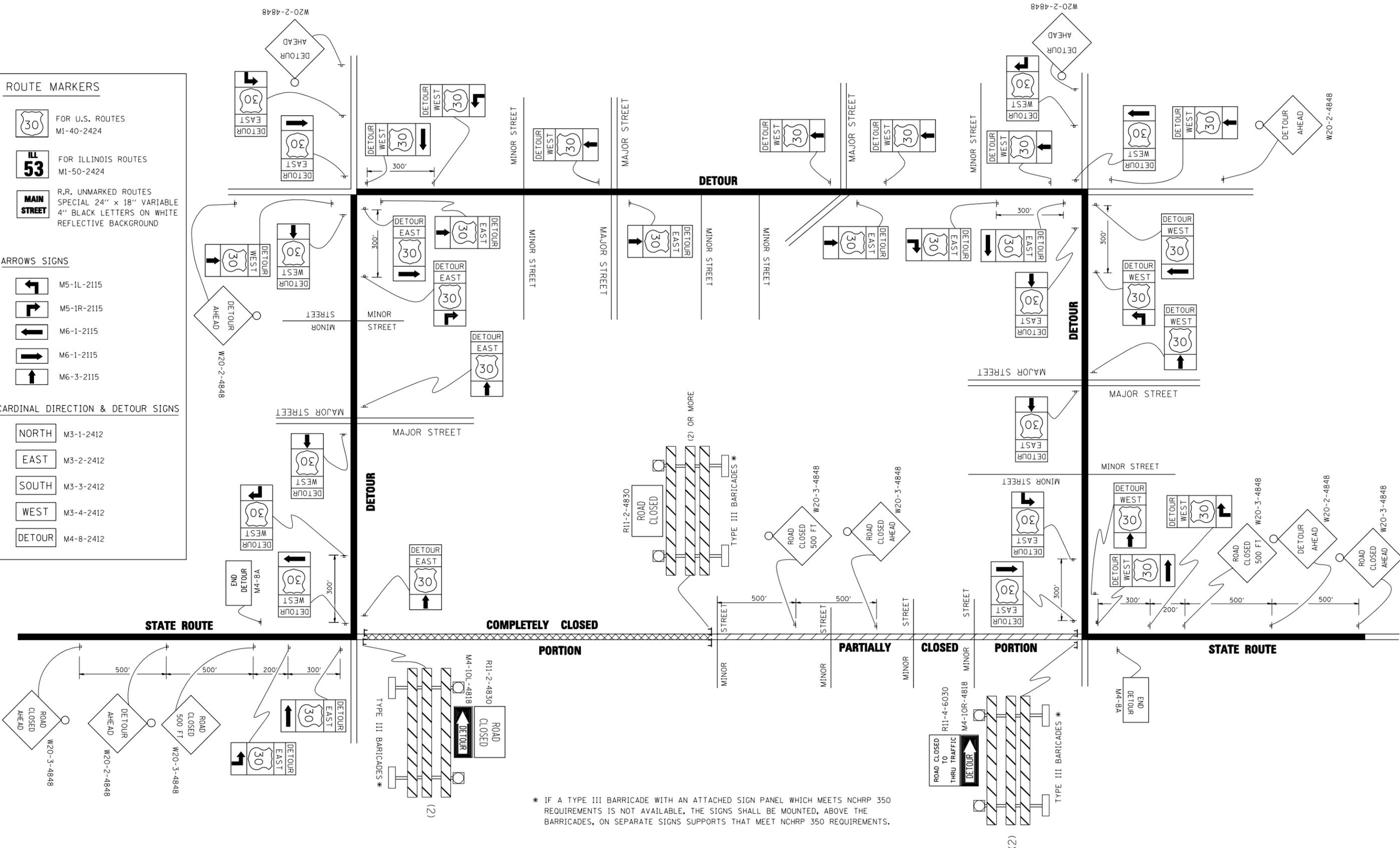
 R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**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



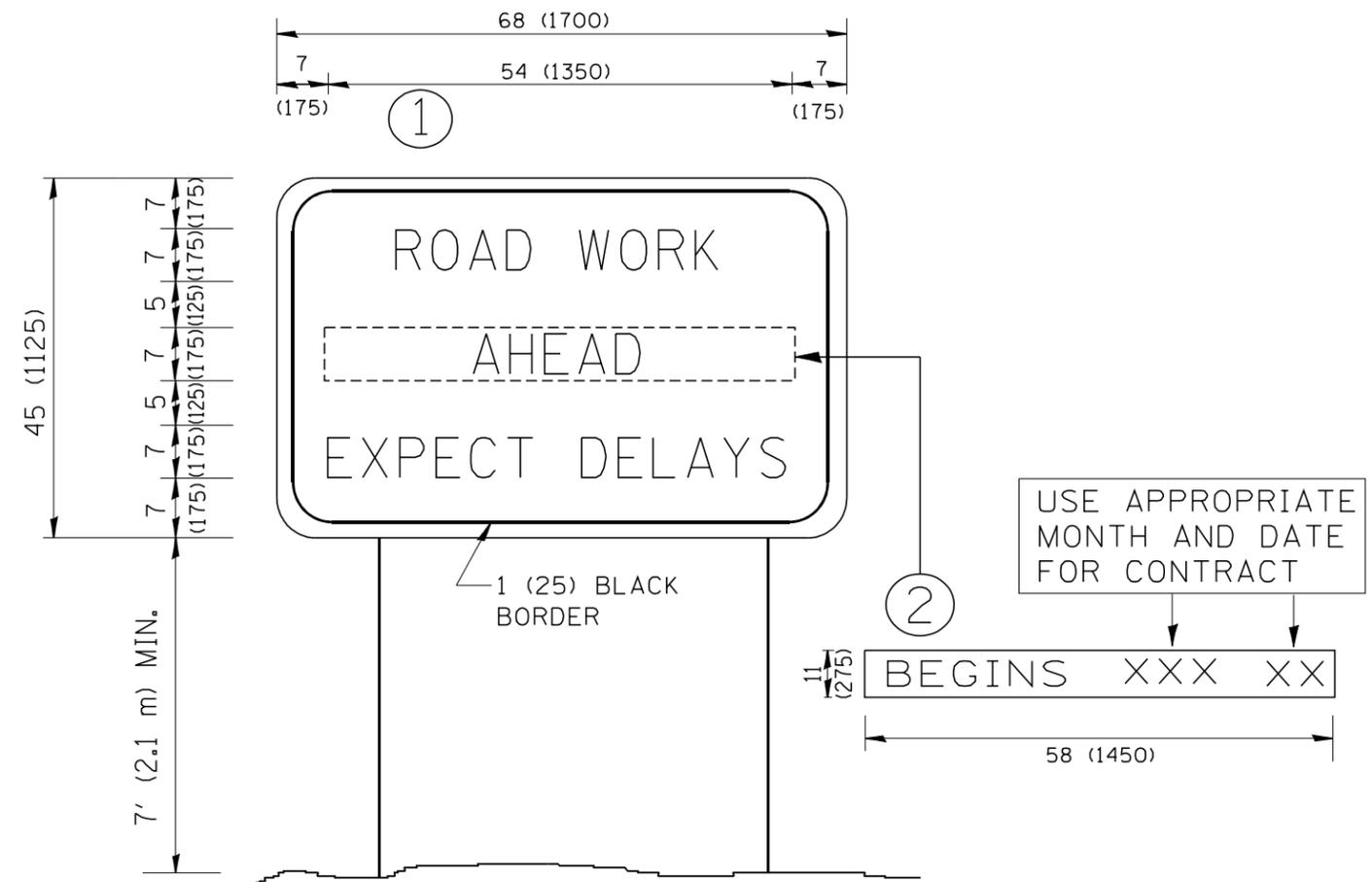
\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ct:\pw\work\PIWIDOT\DRIVAKOSGN\d0108315\st21.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018-055-CR	COOK	67	65
<b>TC-21</b>		CONTRACT NO. 62G92		
FED. ROAD DIST. NO. 1 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.

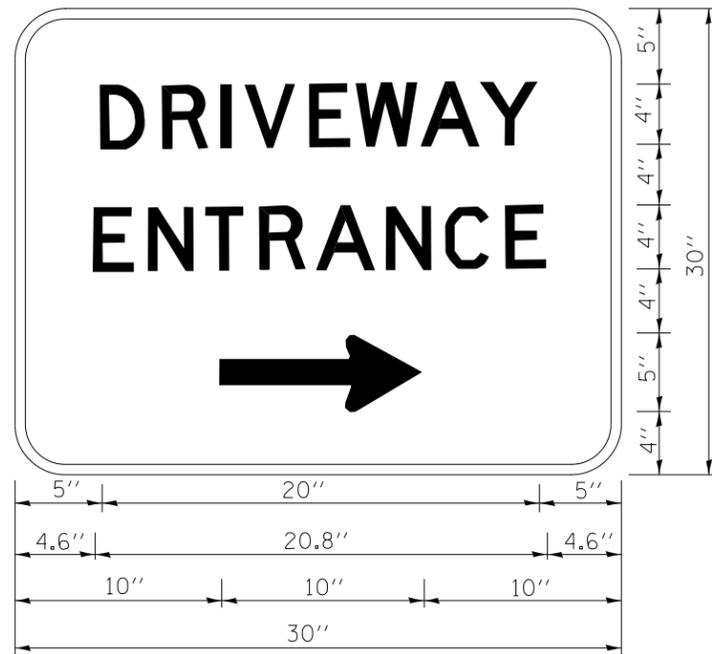
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		REVISOR - CHECKED -	REVISOR - CHECKED -
		DATE -	DATE -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018 - 055 - CR	COOK	67	66
<b>TC-22</b>			<b>CONTRACT NO. 62G92</b>	
FED. ROAD DIST. NO. 1 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".

FILE NAME =	USER NAME = gegl1anobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ct:\pw\work\p1dot\gagl1anobt\d0108315\to26.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
	PLOT SCALE = 50.000' / in.		
	PLOT DATE = 12/13/2012		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2860	2018 - 055 - CR	COOK	67	67
<b>TC-26</b>			<b>CONTRACT NO. 62G92</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				