03-11-2022 LETTING ITEM 134

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2019-109-RS,SW&T	COOK	130	1
	ILLINOIS	CONTRACT NO. 62H38		

* 130 + 5 = 135 TOTAL SHEETS

D-91-043-19

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED

HIGHWAY PLANS

FAU RTE 3512: US RTE 14 – NORTHWEST HWY FROM NICHOLAS DR. TO WESTERN AVE.

SECTION 2019-109-RS,SW&T

PROJECT: STP-SVKQ(134)

RETAINING WALL, STORM SEWER, ADA RAMPS ROADWAY RECONSTRUCTION AND DESIGN OVERLAY

COOK COUNTY

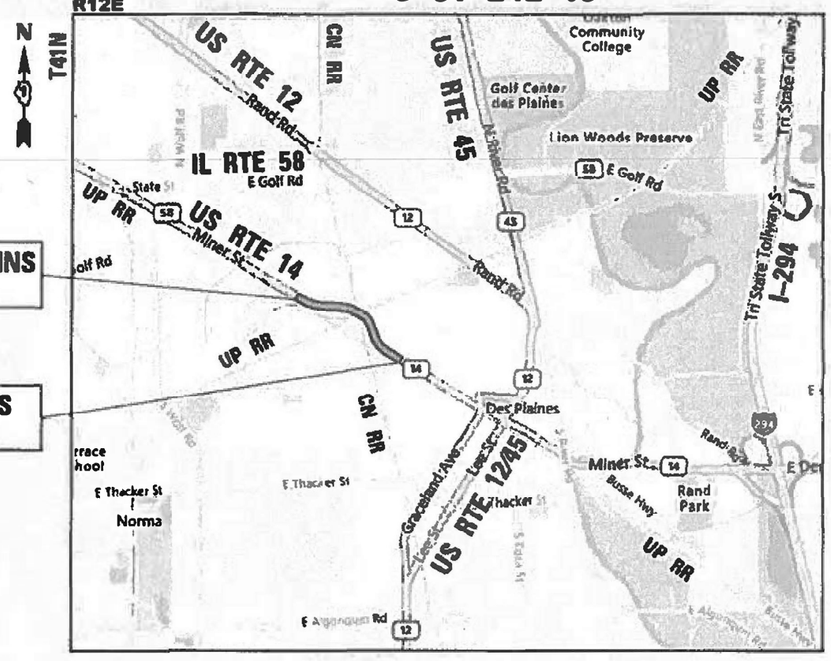
C-91-242-19

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:
MINOR ARTERIAL
FAU ROUTE 3512 (US RTE 14)
2019 ADT = 16,100
SPEED LIMIT 25 /30 MPH

IMPROVEMENT LOCATED IN:
CITY OF DES PLAINES

MAINE TOWNSHIP
R12E



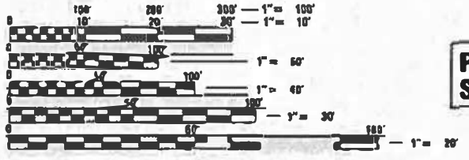
PROJECT BEGINS
STA 106+00

PROJECT ENDS
STA 132+00

LOCATION MAP (NOT TO SCALE)

GROSS LENGTH = 2600 FT = 0.49 MILE

NET LENGTH = 2600 FT = 0.49 MILE



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: MR. PRAVEEN KAINI, PE (847) 705-4237
PROJECT MANAGER: MR. J. ALAIN MIDY, PE (847) 221-3056

CONTRACT NO. 62H38

LICENSED PROFESSIONAL ENGINEER — DANIEL JOSEPH DAVIS — 062.062753 — STATE OF ILLINOIS

DATE SIGNED: 10-04-21
EXP. DATE: 11-30-21
SHEETS:

STATE OF ILLINOIS — MOUSSA A ISSA — 001-005739 — CHICAGO, ILLINOIS — LICENSED PROFESSIONAL ENGINEER

Moussa A. Issa

DATE SIGNED: 09/22/2021
EXP. DATE: 11-30-22
SHEETS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 20 20 21

REGIONAL ENGINEER

December 10 20 21

ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 21

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

2

Accurate GROUP, INC.
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002019

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

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STATE OF ILLINOIS HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602016-02	CATCH BASIN TYPE D
602401-07	PRECAST MANHOLE TYPE A 4' DIAMETER
602411-09	PRECAST MANHOLE TYPE A 7' DIAMETER
602426-03	PRECAST MANHOLE TYPE A, 10' DIAMETER
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
664001-02	CHAIN LINK FENCE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

2. THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS. REPRESENT DATA RECEIVED FROM VARIOUS SOURCES: IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVUCE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE

3. THE EXACT LOCATION OF ALL EXISTING 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.

4. ALL UTILITY OWNERS ARE TO PHYSICALLY LOCATE AND MARK THEIR UTILITIES PRIOR TO THE START OF CONSTRUCTION.

5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. ILLINOIS DEPARTMENT OF TRANSPORTATION, AND THE CITY OF DES PLAINES.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

7. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE ENGINEER BEFORE ORDERING MATERIALS.

8. ALL ELEVATIONS IN THE PLANS ARE BASED ON THE HIGHWAY DATUM (NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) +- 0.415').

9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

10. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

11. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

13. 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.

14. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

15. FRAME AND GRATE ADJUSTMENTS OF PRIVATE UTILITIES WITHIN WITH THE LIMITS OF THE IMPROVEMENT SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

16. BACK FILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ARTICLE 550.07 (B,C) OF THE SSRBC WILL NOT BE ALLOWED.

17. THE REMOVAL OF EXISTING DRAINAGE ITEMS LOCATED FURTHER THAN 2 FEET OUTSIDE THE EDGE OF PROPOSED PAVEMENT OR BACK OF CURB SHALL BE BACKFILLED WITH NATIVE MATERIALS AND THE COST OF THE BACKFILLING WITH NATIVE MATERIALS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE DRAINAGE ITEM TO BE REMOVED. BACKFILL UNDER AND WITHIN 2 FEET OF THE PROPOSED PAVEMENT EDGES AND BACK OF CURBS SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS.

18. THE COST OF CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM AND/OR CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED STORM SEWER. ALL NECESSARY ADDITIONAL PIPE USED WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SEWER OF THE SIZE REQUIRED.

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

20. 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.

21. BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

22. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT PATRICE HARRIS, THE AREA TRAFFIC FIELD TECHNICIAN AT PATRICE.HARRIS@ILLINIOIS.GOV.

23. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

24. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

25. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERMITS AND RIGHTS OF ENTRY WITH RAILROAD OWNERS. NO ADDITIONAL COMPENSATION TO BE PAID DELAYS DUE TO RAILROAD PERMITS.

26. THE CONTRACTOR MUST OBTAIN A RIGHT OF ENTRY FROM PAUL CHOJENSKI FOR THE WISCONSIN CENTRAL LIMITED PROPERTY.

27. 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. 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.

28. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES, CONCRETE WASHOUTS, AND IN-STREAM WORK 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

29. THE CONTRACTOR IS RESPONSIBLE OF PLANNING AND IMPLEMENTING ALL TRENCH SHORING FOR THE INSTALLATION OF STORM SEWERS AND MANHOLES.

30. ALL DISTURBED AREAS NOT OTHERWISE PAVED SHALL BE SEEDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 250 OF THE STANDARD SPECIFICATIONS.

31. EXISTING TREES TO REMAIN WHENEVER POSSIBLE.

32. PERIMETER EROSION BARRIER AND OTHER EROSION CONTROL ELEMENTS TO BE IN ACCORDANCE WITH IDOT STANDARDS.

33. ALL DISTURBED AND REGRADED AREAS ARE TO BE PROVIDED WITH 4-INCH TOP SOIL. SEEDING AND EROSION CONTROL BLANKET SHALL BE PLACED AS REQUIRED.

34. IDOT MAINTENANCE HAS PLACED VARIOUS W8-8 (ROUGH ROAD) SIGNS WITHIN THE PROJECT LIMITS; THE CONTRACTOR IS TO RETURN THESE SIGNS AT THE COMPLETION OF THIS CONTRACT. SIGNS SHALL BE DELIVERED TO THE IDOT SIGN SHOP AT 15940 S. PULASKI, MARKHAM, IL AND DIRECTED TO RAPHAEL GOMEZ. COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

35. ACCESS TO THE PACE BUS NORTHWEST GARAGE MUST BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION. THE RESIDENT ENGINEER SHALL COORDINATE WITH PACE FOR ALL CONSTRUCTION ACTIVITIES AND OPERATIONS WHICH IMPACT DRIVEWAY ACCESS/EGRESS.

36. RESIDENT ENGINEER SHALL PROVIDE PACE WITH AT LEAST 10 DAYS OF ADVANCED NOTICE OF THE CONSTRUCTION STARTING.

37. SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH THE FULLY LOADED TANDEM-AXLE TRUCK.

38. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT AND/OR REMOVAL OF UNSUITABLE MATERIALS (CU YD) HAVE 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 ABOVE ITEM 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.

39. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE HIGHWAY STANDARDS, AND GENERAL NOTES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	2
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

					CONSTRUCTION CODE		
				80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
				ROADWAY	RETAINING WAB	RETAINING WALL	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25			
20200100	EARTH EXCAVATION	CU YD	7859	7859			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	512	512			
20800150	TRENCH BACKFILL	CU YD	5763	5763			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1534	1534			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3213	3213			
* 25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75			
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	62	62			
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	62	62			
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	62	62			
25100630	EROSION CONTROL BLANKET	SQ YD	1727	1727			
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1389	1389			
* 25200110	SODDING, SALT TOLERANT	SQ YD	28	28			
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	69	69			

* SPECIALTY ITEM

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PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 14

SCALE: | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	3
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT SVKQ(134)		

REV-SEP

					CONSTRUCTION CODE			
				80% FED 20% STATE	100% CITY OF DES PLAINES			100% STATE
				ROADWAY	RETAINING WAB	RETAINING WALL	ROADWAY	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN	
* 28000400	PERIMETER EROSION BARRIER	FOOT	1867	1867				
28000510	INLET FILTERS	EACH	45	45				
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1084	1084				
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2157	2157				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	512	512				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	7364	7364				
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	43	43				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	12	12				
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	6199	6199				
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	14057	14057				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7099	7099				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	10400	10400				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	43	43				
40600990	TEMPORARY RAMP	SQ YD	21	21				

* SPECIALTY ITEM

				CONSTRUCTION CODE			
				80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
				ROADWAY	RETAINING WALL	RETAINING WALL	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	752	752			
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2	2			
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	1416	1416			
42001300	PROTECTIVE COAT	SQ YD	1554	1061	291	202	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	569	569			
42400800	DETECTABLE WARNINGS	SQ FT	13	13			
44000100	PAVEMENT REMOVAL	SQ YD	6516	6516			
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	6363	6363			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2907	2907			
44000600	SIDEWALK REMOVAL	SQ FT	240	240			
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	401	401			
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	386	386			
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	386	386			
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	448	448			

* SPECIALTY ITEM

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	DRAWN - DW	REVISED -
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PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	5
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		

				CONSTRUCTION CODE			
				80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
				ROADWAY	RETAINING WAB	RETAINING WALL	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
50200100	STRUCTURE EXCAVATION	CU YD	438		270	168	
50300225	CONCRETE STRUCTURES	CU YD	149		89	60	
50500505	STUD SHEAR CONNECTORS	EACH	988		588	400	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	18170		10800	7370	
51500100	NAME PLATES	EACH	2		1	1	
52200010	TEMPORARY SHEET PILING	SQ FT	1358		741	617	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	44191	44191			
52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	2548		1460	1088	
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	16769		11428	5341	
52200250	UNTREATED TIMBER LAGGING	SQ FT	3376		2061	1315	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	747	747			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	651	651			

* SPECIALTY ITEM

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38 sht SOQ.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS**	**SUMMARY OF QUANTITIES**
	DRAWN - DW	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**US ROUTE 14**
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -		SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	6
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT SVKQ(134)		

REV-SEP

				CONSTRUCTION CODE			
				80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
				ROADWAY	RETAINING WAL	RETAINING WALL	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	20	20			
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	312	312			
550A0780	STORM SEWERS, CLASS A, TYPE 3 48"	FOOT	587	587			
550A0790	STORM SEWERS, CLASS A, TYPE 3 54"	FOOT	26	26			
550A0800	STORM SEWERS, CLASS A, TYPE 3 60"	FOOT	35	35			
550A1080	STORM SEWERS, CLASS A, TYPE 4 48"	FOOT	566	566			
55100900	STORM SEWER REMOVAL 18"	FOOT	251	251			
55201300	STORM SEWERS JACKED IN PLACE, 36"	FOOT	312	312			
55201700	STORM SEWERS JACKED IN PLACE, 54"	FOOT	26	26			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	419		252	167	
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	32	32			
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	384		204	180	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	33	33			
60210500	CATCH BASINS, TYPE D, 3'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	9			

* SPECIALTY ITEM

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\CivilD16\62H38 sht-SOQ.dgn

				CONSTRUCTION CODE			
				80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
				ROADWAY	RETAINING WAB	RETAINING WALL	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	21	21			
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3			
60500040	REMOVING MANHOLES	EACH	2	2			
60500050	REMOVING CATCH BASINS	EACH	1	1			
60500205	FILLING CATCH BASINS	EACH	1	1			
60602800	CONCRETE GUTTER, TYPE B	FOOT	378	378			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2876	2876			
60624600	CORRUGATED MEDIAN	SQ FT	223	223			
63700900	CONCRETE BARRIER BASE	FOOT	328	328			
66400105	CHAIN LINK FENCE, 4'	FOOT	380	380			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1445	1445			
* 66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GAL	1000	1000			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	6			
* 66901000	BACKFILL PLUGS	CU YD	111	111			
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			

* SPECIALTY ITEM

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38 sht-SOQ.dgn

Accurate GROUP, INC.

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	DRAWN - DW	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	8
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT SVKQ(134)		

REV-SEP

					CONSTRUCTION CODE			
					80% FED 20% STATE	100% CITY OF DES PLAINES		100% STATE
					ROADWAY	RETAINING WALL	RETAINING WALL	ROADWAY
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0044	0044	0004
					URBAN	S.N.016-9200	S.N.016-9201	URBAN
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
	67100100	MOBILIZATION	L SUM	1	1			
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28			
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3569	3569			
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	94	94			
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	158	158			
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	158	158			
	X0326401	BARRIER WALL REMOVAL	FOOT	328	328			
	X0326806	WASHOUT BASIN	L SUM	1	1			
	X0426200	DEWATERING	L SUM	1	1			
	X1200048	DRAINAGE STRUCTURE LINING	FOOT	175	175			
	X1200043	PRECAST CONCRETE JUNCTION CHAMBER	EACH	2	2			
	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	102				102
	X0783300	PUMP STATION ELECTRICAL WORK	L SUM	1	1			
	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	27				27

* SPECIALTY ITEM

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\CivilD\62H38 sht SOQ.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 14

SCALE: | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	9
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT SVKQ(134)		

REV-SEP

				CONSTRUCTION CODE			
				80% FED 20% STATE ROADWAY	100% CITY OF DES PLAINES RETAINING WALL	100% STATE RETAINING WALL	100% STATE ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0044 S.N.016-9200	0044 S.N.016-9201	0004 URBAN
X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	38				38
X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	163				163
X6060500	CORRUGATED MEDIAN REMOVAL	SQ FT	223	223			
X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	328	328			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	79	79			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	9				9
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0068410	STEEL CASINGS 48"	FOOT	312	312			
Z0068432	STEEL CASINGS 72"	FOOT	26	26			
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	14	14			
Ø Z0076600	TRAINEES	HOURS	1000	1000			
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	1000	1000			

* SPECIALTY ITEM

Ø 0042

FILE NAME = O:\Engineering\LiveProjects\20005_IDOT DURIWO 11 - 62H38\CADD\CADD Sheets\CivilD152H38 sht SOQ.dgn

Accurate GROUP, INC.

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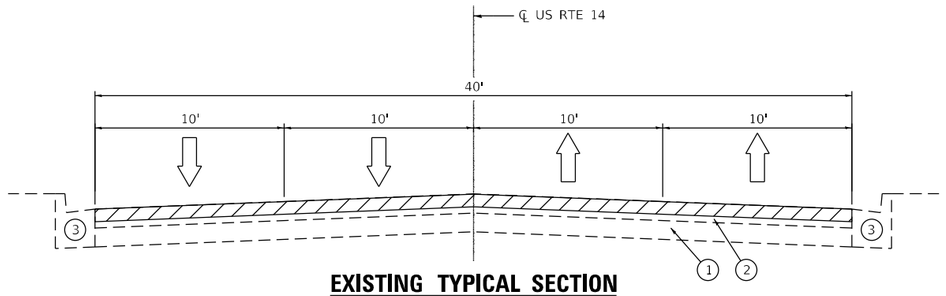
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US ROUTE 14

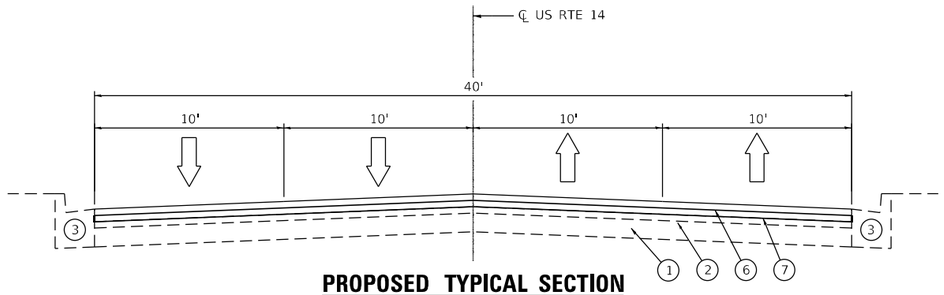
SCALE: | SHEET 8 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	10
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			



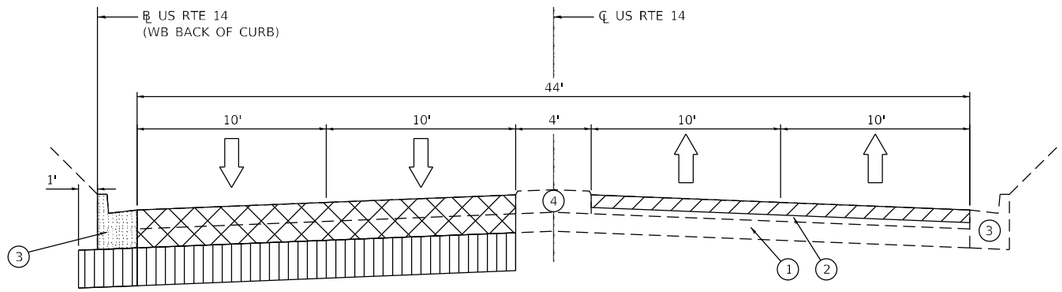
EXISTING TYPICAL SECTION

STA 106+00 TO STA 109+94
STA 131+38 TO STA 132+00
(LOOKING EAST)



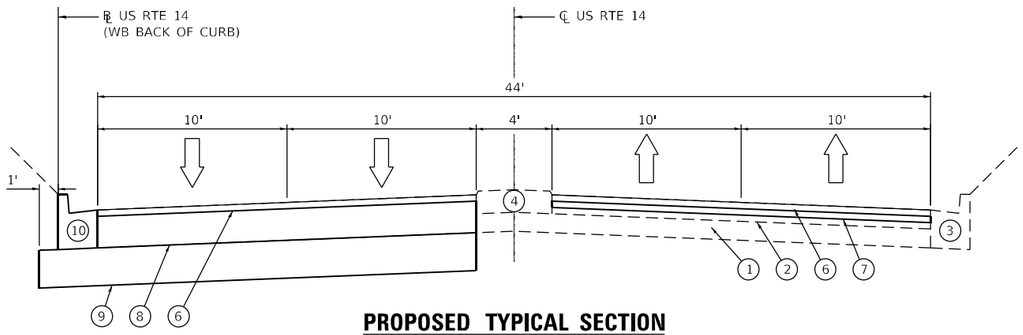
PROPOSED TYPICAL SECTION

STA 106+00 TO STA 109+94
STA 131+38 TO STA 132+00
(LOOKING EAST)



EXISTING TYPICAL SECTION

STA 109+94 TO STA 117+65
(LOOKING EAST)



PROPOSED TYPICAL SECTION

STA 109+94 TO STA 117+65
(LOOKING EAST)

LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- EARTH EXCAVATION

1. EXISTING PCC PAVEMENT, VARIES 5"-10"
2. EXISTING HMA SURFACE, VARIES 4"-6"
3. EXISTING CONCRETE CURB AND GUTTER OR CONCRETE BARRIER WALL
4. EXISTING CONCRETE CORRUGATED MEDIAN OR CONCRETE BARRIER WALL MEDIAN
6. PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"
7. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"
8. PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
9. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
10. PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
11. PROPOSED CONCRETE BARRIER WALL (SPECIAL) AND CONCRETE BARRIER BASE

FILE NAME = Q:\Engineering\LivePrjcts\2005_IDOT DIR\WO 11 - 62H38\CADD\CADD Sheets\DWG\62H38-sht-typical-1.dgn

Accurate GROUP, INC.

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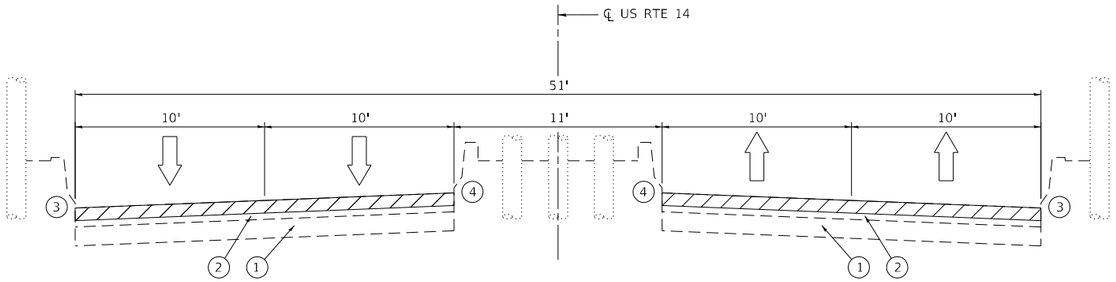
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS
US ROUTE 14

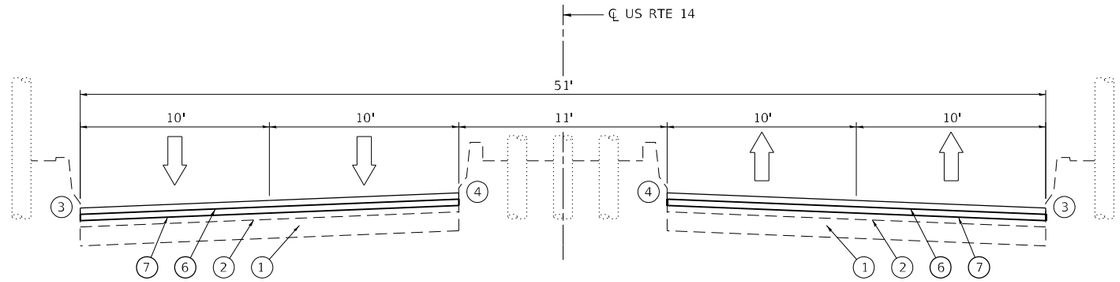
SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	11
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			



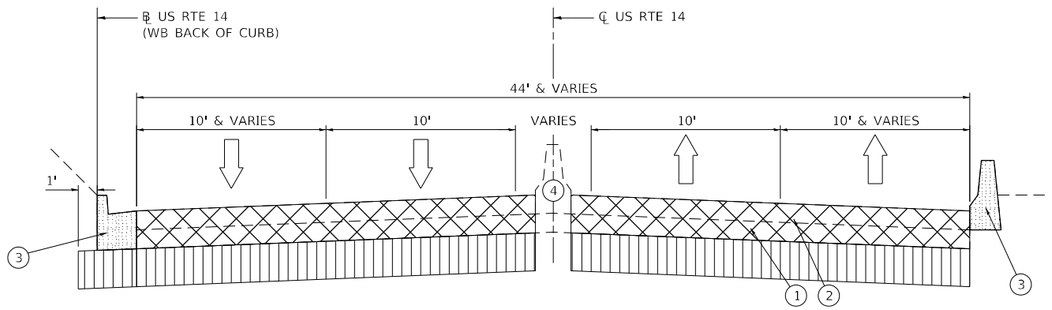
EXISTING TYPICAL SECTION

STA 117+65 TO STA 119+59
(LOOKING EAST)



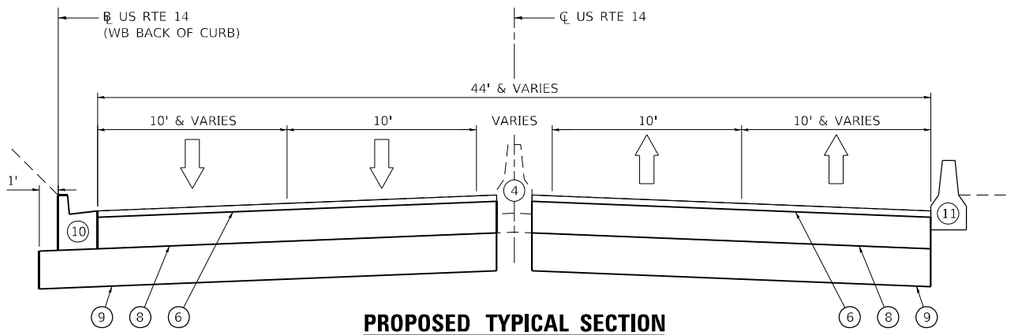
PROPOSED TYPICAL SECTION

STA 117+65 TO STA 119+59
(LOOKING EAST)



EXISTING TYPICAL SECTION

STA 119+59 TO STA 128+28
(LOOKING EAST)



PROPOSED TYPICAL SECTION

STA 119+59 TO STA 128+28
(LOOKING EAST)

LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR BARRIER WALL REMOVAL
- EARTH EXCAVATION
- (1) EXISTING PCC PAVEMENT, VARIES 5"-10"
- (2) EXISTING HMA SURFACE, VARIES 4"-6"
- (3) EXISTING CONCRETE CURB AND GUTTER OR CONCRETE BARRIER WALL
- (4) EXISTING CONCRETE CORRUGATED MEDIAN OR CONCRETE BARRIER WALL MEDIAN
- (6) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"
- (7) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"
- (8) PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
- (9) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (10) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (11) PROPOSED CONCRETE BARRIER WALL (SPECIAL) AND CONCRETE BARRIER BASE

FILE NAME = Q:\Engineering\Live Projects\22005_IDOT DVR\WO 11 - 62H38\CADD\CADD Sheets\GWD162H38-sht-typical-2.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -
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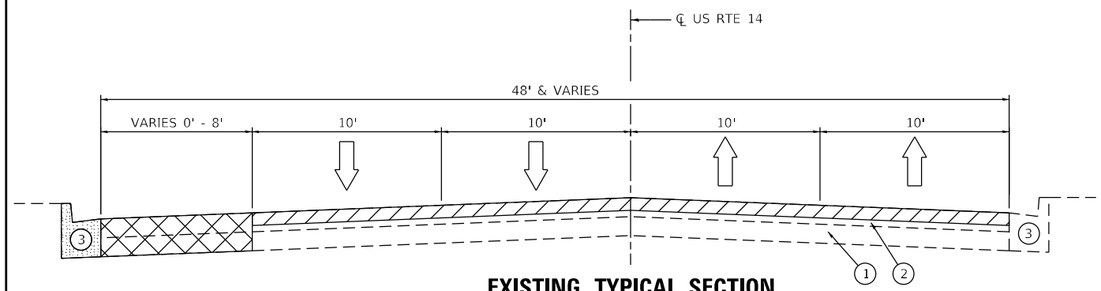
PLOT SCALE = 8.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 1/27/2022	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS
US ROUTE 14

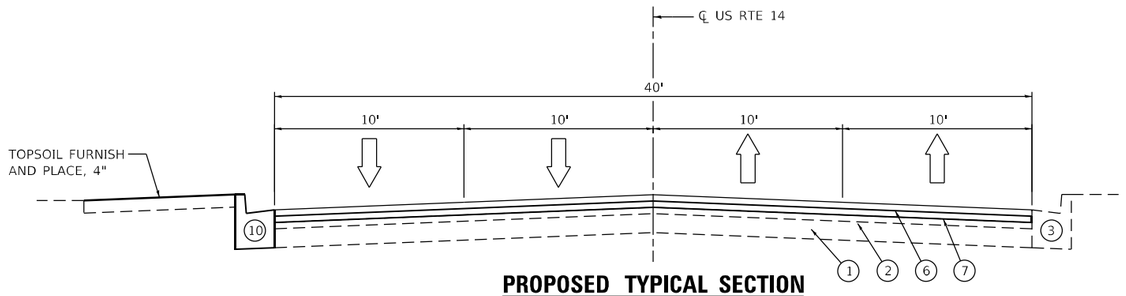
SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	12
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		



EXISTING TYPICAL SECTION

STA 128+28 TO STA 131+38
(LOOKING EAST)



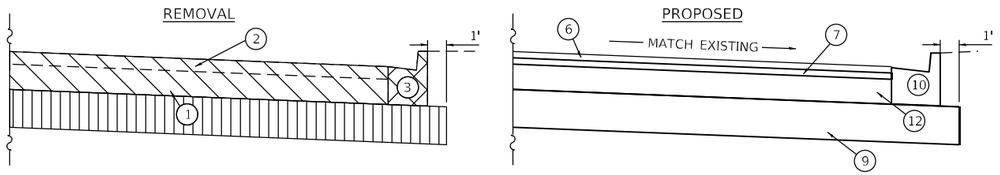
PROPOSED TYPICAL SECTION

STA 128+28 TO STA 131+38
(LOOKING EAST)

LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- EARTH EXCAVATION

(1) EXISTING PCC PAVEMENT, VARIES 5"-10"
(2) EXISTING HMA SURFACE, VARIES 4"-6"
(3) EXISTING CONCRETE CURB AND GUTTER OR CONCRETE BARRIER WALL
(4) EXISTING CONCRETE CORRUGATED MEDIAN OR CONCRETE BARRIER WALL MEDIAN
(6) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"
(7) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"
(8) PROPOSED HOT-MIX ASPHALT BASE COURSE, 10"
(9) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
(10) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(11) PROPOSED CONCRETE BARRIER WALL (SPECIAL) AND CONCRETE BARRIER BASE



LEGEND

- COMBINATION CURB AND GUTTER REMOVAL
- REMOVAL (INCLUDED IN COST OF PATCH)
(1) EXISTING PCC PAVEMENT, VARIES 5"-10"
(2) EXISTING HMA SURFACE, VARIES 4"-6"
(3) EXISTING CONCRETE CURB AND GUTTER
(6) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"
(7) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"
(9) AGGREGATE SUBGRADE IMPROVEMENT, 12"
(10) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(12) PROPOSED CLASS D PATCHES, 8 INCH

CLASS D PATCH DETAIL

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"	3.5% @ 80 GYR.	QCP
	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"	4% @ 70 GYR.	QC/QA
PAVEMENT RECONSTRUCTION	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"	3.5% @ 80 GYR.	QCP
	HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19.0), 10"	4% @ 70 GYR.	QCP
DRIVEWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	4% @ 50 GYR.	QC/QA
	HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19.0), 8"	4% @ 50 GYR.	QC/QA
CLASS D PATCHES	HOT-MIX ASPHALT BINDER, IL-19.0, 8"	4% @ 70 Gyr.	QC/QA
QUALITY MANAGEMENT PROGRAM (QMP) DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) QUALITY CONTROL FOR PERFORMANCE (QCP)			

NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22", AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY 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. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE BINDER IL-9.5 LIFT, ALSO UNDER AND OVER THE TOP BASE COURSE LIFT.

FILE NAME = Q:\Engineering\LivePrjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\DUR0162H38-sht-typical-3.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JJD	REVISED -
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PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	13
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

PAVEMENT SCHEDULE

FROM STATION	TO STATION	OFFSET	30300112 AGG SUBGRADE IMPR 12 SQ YD	35501324 HMA BASE CSE 10 SQ YD	40600275 BIT MATLS PR CT POUND	40600290 BIT MATLS TACK CT POUND	40602985 HMA BC IL-9.5 N70 TON	40605026 P SC SMA 9.5 F N80 TON	44000165 HMA SURF REM 4 SQ YD	40600982 HMA SURF REM BUTT JT SQ YD
106+00	109+94	℄				1238	205	214	1835	22
109+94	117+64	LT	1869	1869	4205	841		209		
109+94	117+64	RT	65	65	147	1261	122	209	1803	
117+64	119+59	LT				339	53	56	503	
117+64	119+59	RT				336	180	56	498	
119+59	128+28	LT	2140	2140	4815	963		240		
119+59	128+30	RT	2125	2125	4781	956		238		
128+28	132+00	℄				1164	191	193	1724	20
		TOTAL:	6200	6200	13949	7099	752	1416	6363	43

CONCRETE SCHEDULE

FROM STATION	TO STATION	OFFSET	30300112 AGG SUBGRADE IMPR 12 SQ YD	35101600 AGG BASE CSE B 4 SQ YD	42400300 PC CONC SIDEWALK 6 INCH SQ FT	44000500 COMB CURB GUTTER REM FOOT	44000600 SIDEWALK REMOVAL SQ FT	60605000 COMB CC&G TB6.24 FOOT	60624600 CORRUGATED MED SQ FT	X0326401 BARRIER WALL REMOVAL FOOT	X6060500 CORRUGATED MED REM SQ FT	X6370050 CONC BAR WALL SPL FOOT
106+16	106+88	RT		36	509	72	240	72				
107+35	108+25	LT				89.8		89.8				
109+01	117+65	LT	22			864.6		864.6				
114+21	114+55	℄							141.1		141.1	
114+79	114+87	RT	2			8.4		8.1				
115+59	116+48	RT	2			75.0		70.9		61.6		61.6
117+10	117+19	RT								8.2		8.2
119+59	131+91	LT	14	7	59	1009.6		1008.8		257.9		257.9
119+72	120+19	RT	5			48.0		48.0				
120+75	121+01	RT	2			25.8		25.8				
121+48	128+35	RT	10			687.3		687.3				
125+70	125+78	℄							34.2		34.2	
126+96	127+07	℄							46.8		46.8	
		TOTAL:	58	43	569	2881	240	2876	223	328	223	328

PATCH SCHEDULE

FROM STATION	TO STATION	OFFSET	30300112 AGG SUBGRADE IMPR 12 SQ YD	40600275 BIT MATLS PR CT POUND	44201737 CL D PATCH T1 8 SQ YD	44201747 CL D PATCH T4 8 SQ YD
114+79	114+87	RT	4	9	4	
115+59	115+68	RT	3	6	3	
116+40	116+48	RT	4	10	4	
117+10	117+19	RT	4	9	4	
117+65	119+59	LT	33	75		62
		TOTAL:	48	109	15	62

DRIVEWAY SCHEDULE

FROM STATION	TO STATION	OFFSET	35501316 HMA BASE CSE 8 SQ YD	40604060 HMA SURF CSE, MIX "D", N50, 2" TON
123+56	123+82	RT	12	1.3
		TOTAL:	12	1.3

FILE NAME = Q:\Engineering\LiveProjects\2005_IDOT DMR\WO 11 - 62H38\CADD\CADD Sheets\GrMD162H38-pht-schedule.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
US ROUTE 14

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	14
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

STORM SEWER CUT/FILL TABLE

PIPE NO.	STRUCTURE		AVERAGE DEPTH (FOOT)	MAX WIDTH (FOOT)	LENGTH (FOOT)	20200100 EARTH EXCAVATION CU YD	20800150 TRENCH BACKFILL CU YD	FILL (CU YD)
	START	END						
P-08	MH-300	JC-001	8.9	11.5	49.0	185.9	117.6	0.0
P-09	MH-302	MH-300	9.2	11.5	16.0	63.0	38.9	0.0
P-10	MH-304	MH-302	10.4	11.5	74.0	329.3	217.5	0.0
P-11	MH-306	MH-304	12.9	11.5	78.0	430.2	312.3	0.0
P-12	MH-308	MH-306	15.4	7.8	56.0	250.3	186.6	0.0
P-13	MH-201	EX-MH-200	9.0	4.3	51.0	73.9	64.4	0.0
P-14	MH-502	JC-002	8.9	11.5	26.0	98.6	0.0	0.0
P-15	MH-504	MH-502	8.9	11.5	27.0	102.7	61.9	0.0
P-16	MH-506	MH-504	10.4	11.5	75.0	322.5	209.1	0.0
P-17	MH-508	MH-506	12.5	11.5	89.0	474.8	340.3	0.0
P-18	MH-510	MH-508	15.8	11.5	125.0	840.1	651.3	0.0
P-19	MH-512	MH-510	18.3	11.5	104.0	812.0	654.8	0.0
P-20	MH-513	MH-512	8.2	4.6	67.0	94.5	78.8	0.0
P-21	MH-515	MH-513	8.1	4.6	68.0	94.8	78.8	0.0
P-22	MH-516	MH-515	7.8	4.6	51.0	68.2	56.3	0.0
P-23	MH-518	MH-516	7.6	4.6	68.0	88.3	72.3	0.0
P-24	MH-519	MH-518	7.4	4.6	55.0	69.5	56.6	0.0
P-25	MH-520	MH-519	7.0	4.6	55.0	66.2	53.2	0.0
P-31	JC-002	JC-001	10.7	6.7	156.0	0.0	0.0	0.0
P-32	JC-002	JC-001	10.7	6.7	185.9	0.0	0.0	0.0
P-35	MH-407	MH-405	10.2	11.5	65.0	281.8	183.6	0.0
P-36	MH-409	MH-407	12.5	11.5	114.0	606.9	434.6	0.0
P-37	MH-411	MH-409	12.5	11.5	119.0	784.6	604.8	0.0
P-42	MH-418	MH-416	7.1	4.6	130.0	157.5	127.0	0.0
P-92	MH-207	MH-205	3.6	4.3	145.0	83.9	56.9	0.0
P-93	MH-205	MH-203	3.7	4.3	141.0	83.0	56.7	0.0
P-94	MH-203	MH-201	3.0	2.8	86.0	27.0	15.7	0.0
P-98	MH-420	MH-418	6.8	4.6	106.0	123.2	98.4	0.0
P-101	MH-413	MH-411	17.2	4.6	90.0	448.3	345.9	0.0
P-102	MH-415	MH-413	17.7	2.8	72.0	369.2	287.3	0.0
P-103	MH-416	MH-415	7.2	4.6	51.0	62.9	51.0	0.0
P-105	CB-208	MH-207	3.1	2.8	9.0	2.9	1.8	0.0
P-106	CB-206	MH-205	3.2	2.8	9.0	3.0	1.8	0.0
P-107	CB-204	MH-203	3.0	2.8	6.0	1.9	1.1	0.0
P-109	CB-107	EX-MH-100	7.6	4.3	24.0	29.5	25.0	9.9
P-110	CB-108	EX-MH-101	10.1	4.3	20.0	32.3	28.6	7.5
P-111	CB-109	EX-MH-102	7.1	4.3	19.0	21.7	18.1	5.9
P-112	CB-110	EX-MH-103	7.0	4.3	20.0	22.4	18.7	5.5
P-114	CB-303	MH-302	2.6	2.8	7.0	1.9	1.0	0.0
P-115	CB-305	MH-304	3.0	2.8	6.0	1.9	1.1	0.0
P-116	CB-307	MH-306	2.9	2.8	6.0	1.8	1.0	0.0
P-117	CB-309	MH-308	2.4	11.5	6.0	6.1	3.4	0.0
P-118	CB-202	MH-201	1.7	2.8	5.0	0.9	0.2	0.0
P-120	MH-405	JC-002	9.4	9.0	35.0	109.6	52.4	0.0
P-121	CB-406	MH-405	3.1	2.8	6.0	2.0	1.2	0.0
P-122	CB-408	MH-407	3.1	2.8	7.0	2.3	1.4	0.0
P-123	CB-410	MH-409	3.1	2.8	8.0	2.6	1.6	0.0
P-124	CB-412	MH-411	3.1	2.8	9.0	2.9	1.8	0.0
P-125	CB-414	MH-413	3.2	2.8	9.0	3.0	1.8	0.0
P-126	CB-417	MH-416	3.5	4.3	9.0	5.1	3.4	0.0
P-127	CB-419	MH-418	3.6	4.3	9.0	5.2	3.5	0.0
P-128	CB-421	MH-420	3.2	2.8	9.0	3.0	1.8	0.0
P-130	CB-505	MH-506	3.2	2.8	8.0	2.7	1.6	0.0
P-131	CB-507	MH-508	3.2	2.8	7.0	2.3	1.4	0.0
P-132	CB-509	MH-510	1.7	2.8	5.0	0.9	0.0	0.0
P-133	CB-511	MH-512	3.4	2.8	6.0	2.2	1.4	0.0
P-134	CB-514	MH-515	3.5	2.8	7.0	2.6	1.7	0.0
P-135	CB-517	MH-518	3.4	2.8	7.0	2.5	1.6	0.0
P-136	CB-521	MH-520	3.5	4.3	11.0	6.3	4.2	0.0
P-142	CB-112	EX-MH-104	1.7	2.8	12.0	2.1	0.5	0.0
P-143	CB-310	MH-300	2.6	2.8	8.0	2.2	1.2	0.0
P-144	CB-422	JC-002	4.7	4.3	12.0	9.0	6.7	0.0
P-145	CB-501	MH-502	2.3	2.8	12.0	2.9	1.3	0.0
P-146	CB-602	CB-423	6.3	4.3	17.0	17.2	14.0	8.8
P-147	CB-423	MH-405	2.0	4.3	12.0	2.6	1.0	0.0
P-148	CB-601	CB-303	7.8	4.3	17.0	21.2	18.1	12.7
P-149	UN1	CB-303	6.6	3.8	17.0	15.6	13.8	9.9
P-150	UN2	CB-423	5.7	3.8	15.0	12.0	10.4	6.6
					TOTAL	7859.4	5762.6	66.7

JACKING PIT CUT/FILL TABLE

STATION		O/S	DEPTH (FOOT)	WIDTH (FOOT)	LENGTH (FOOT)	20200100 EARTH EXCAVATION CU YD	20800150 TRENCH BACKFILL CU YD
FROM	TO						
117+84	118+14	LT	14.6	10	30	162.6	135.4
119+64	119+75	LT	10.3	20	10	38.1	38.1
119+65	119+94	LT	10.4	10	30	115.1	95.8
119+66	119+79	RT	10.0	20	10	74.3	55.6
					TOTAL	390.2	324.9

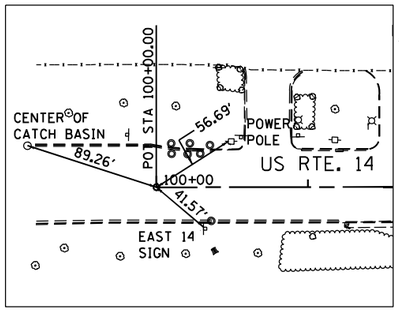
NOTE: JACKING PIT CUT/FILL QUANTITIES ARE NOMINAL. JACKING PITS TO BE DESIGNED BY CONTRACTOR.

GRADING CUT/FILL TABLE

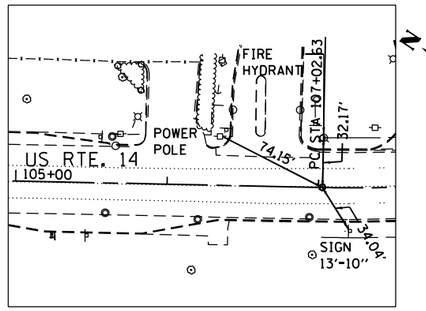
STATION	CUT AREA (SQ FT)	FILL AREA (SQ FT)	INTERVAL (FOOT)	20200100 EARTH EXCAVATION CU YD	FILL (CU YD)
WEST RETAINING WALL					
115+69	71.4	71.4			
			18.13	48	24
115+87	71.4	0.0			
			12.62	33	0
116+00	71.4	0.0			
			50.00	125	0
116+50	63.5	0.0			
			50.00	117	0
117+00	62.6	0.0			
			47.93	118	0
117+48	70.5	0.0			
			19.42	51	25
117+67	70.5	70.5			
EAST RETAINING WALL					
119+84	48.7	39.1			
			17.30	31	13
120+01	48.7	0.0			
			48.66	90	0
120+50	51.0	0.0			
			50.00	88	0
121+00	44.2	0.0			
			32.41	53	0
121+32	44.2	0.0			
			13.83	23	10
121+46	44.2	40.1			
			TOTAL	776.9	72.1

DECELERATION LANE REMOVAL CUT/FILL TABLE

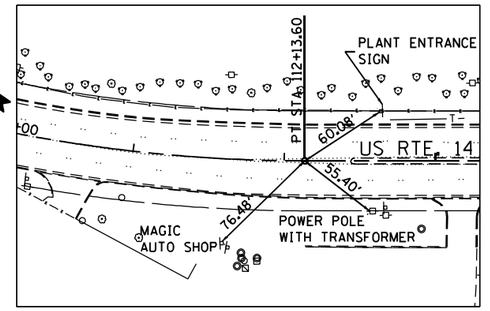
STATION	CUT AREA (SQ FT)	FILL AREA (SQ FT)	INTERVAL (FOOT)	20200100 EARTH EXCAVATION CU YD	FILL (CU YD)
128+38	0	0			
			69.32	0	15
129+07	0	11.4			
			252.54	0	129
130+90	0	16.2			
			77.32	0	23
131+68	0	0			
			TOTAL	0.0	167.0



CENTERLINE TIE,
US RTE. 14
BEGIN PROJECT
MAG NAIL
STA 100+00
N 1960719.17
E 1100816.28



CENTERLINE TIE,
US RTE. 14
PC CURVE-1
MAG NAIL
STA 107+02.63
N 1960360.99
E 1101420.76



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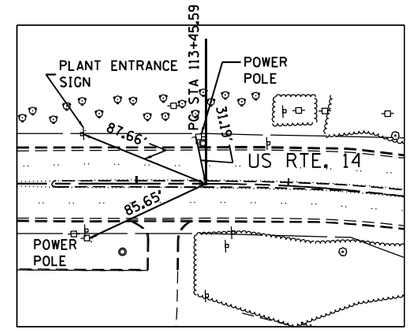
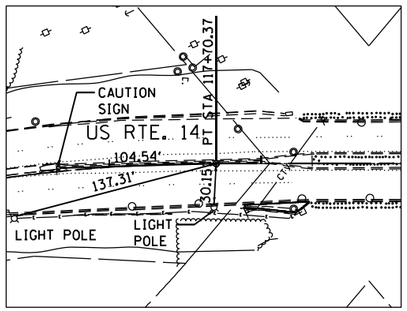
US RTE. 14
PT CURVE-1
MAG NAIL
STA 112+13.60
N 1960220.05
E 1101906.28



CENTERLINE TIE,
US RTE. 14
PC CURVE-2
CHISELED "X"
STA 113+45.59
N 1960216.07
E 1102038.21



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US RTE. 14
PT CURVE-2
MAG NAIL
STA 117+70.37
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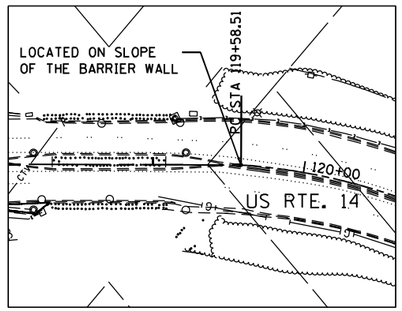
E 1102448.33



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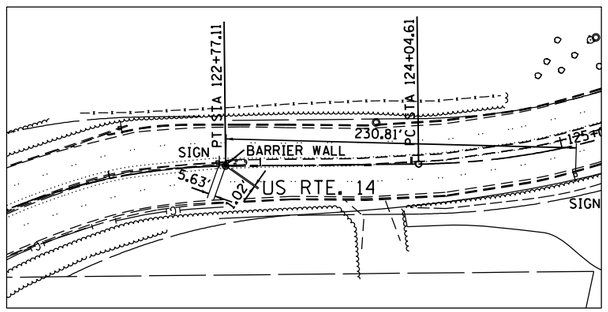
US RTE. 14
PC CURVE-3
STA 119+58.51
N 1960037.14
E 1102618.43

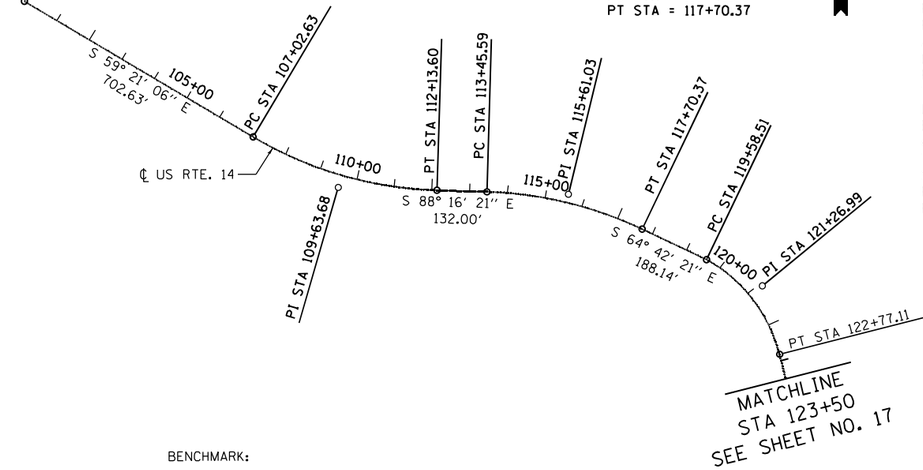


CENTERLINE TIE,
US RTE. 14
PT CURVE-3
MAG NAIL
STA 122+77.11
N 1959792.52
E 1102809.00

PROP CURVE-1
PI STA = 109+63.68
Δ = 28° 55' 15" (LT)
D = 5° 39' 36"
R = 1,012.29'
T = 261.05'
L = 510.96'
E = 33.12'
e = -----
T.R. = -----
S.E. RUN = -----
PC STA = 107+02.63
PT STA = 112+13.60

PROP CURVE-2
PI STA = 115+61.03
Δ = 23° 34' 00" (RT)
D = 5° 32' 53"
R = 1,032.72'
T = 215.43'
L = 424.78'
E = 22.23'
e = -----
T.R. = -----
S.E. RUN = -----
PC STA = 113+45.59
PT STA = 117+70.37

PROP CURVE-3
PI STA = 121+26.99
Δ = 46° 04' 26" (RT)
D = 14° 27' 41"
R = 396.20'
T = 168.48'
L = 318.60'
E = 34.33'
e = -----
T.R. = -----
S.E. RUN = -----
PC STA = 119+58.51
PT STA = 122+77.11



BENCHMARK:

TEMP BENCHMARK #1 SET CHISELED "X" ON TOP OF 6" CONCRETE BARRIER CURB AT SOUTHEAST CORNER OF EXISTING DAYTON FREIGHT PARKING LOT ADJACENT TO THE EXISTING PUMP STATION NO. 8
ELEVATION 643.93 (HIGHWAY DATUM)

FILE NAME = Q:\Engineering\Live\Projects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\SIVRD162H38-sht-ATB.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 400.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

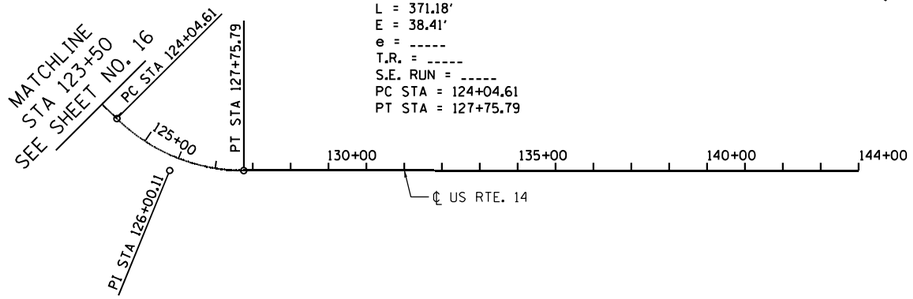
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

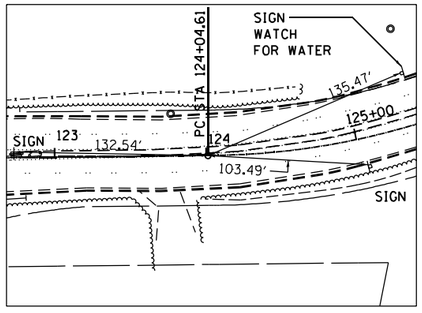
ALIGNMENT, TIES, AND BENCHMARKS
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	16
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

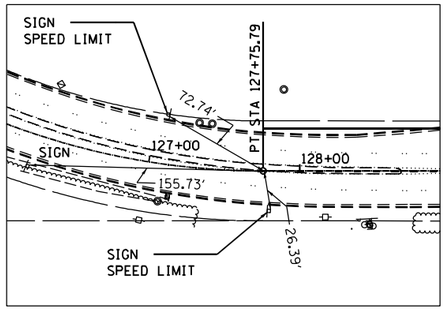
PROP CURVE-4
PI STA = 126+00.11
Δ = 44° 27′ 36″ (LT)
D = 11° 58′ 41″
R = 478.34′
T = 195.50′
L = 371.18′
E = 38.41′
e = -----
T.R. = -----
S.E. RUN = -----
PC STA = 124+04.61
PT STA = 127+75.79





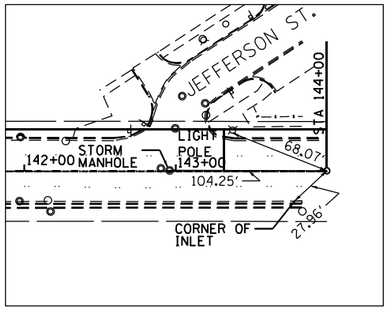
CENTERLINE TIE,
US RTE. 14

PC CURVE-4
MAG NAIL
STA 124+04.61
N 1959669.31
E 1102841.74



CENTERLINE TIE,
US RTE. 14

PT CURVE-4
MAG NAIL
STA 127+75.79
N 1959380.67
E 1103060.12



CENTERLINE TIE,
US RTE. 14

END PROJECT
MAG NAIL
STA 144+00
N 1958552.45
E 1104457.30

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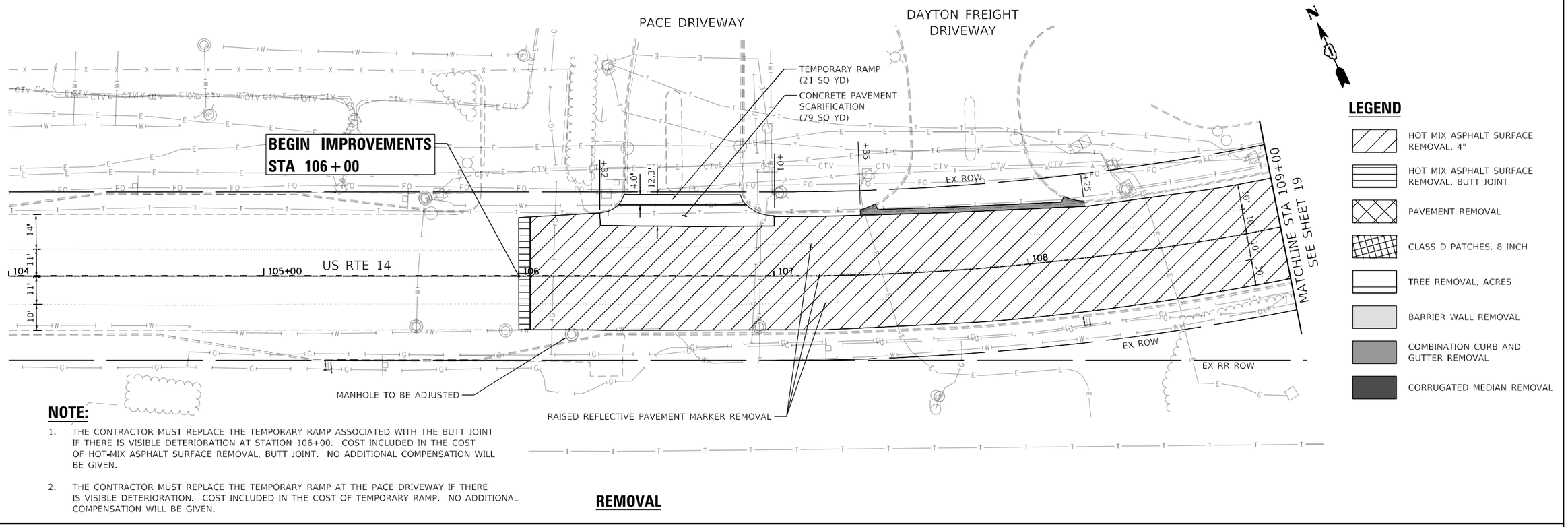
Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	17
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



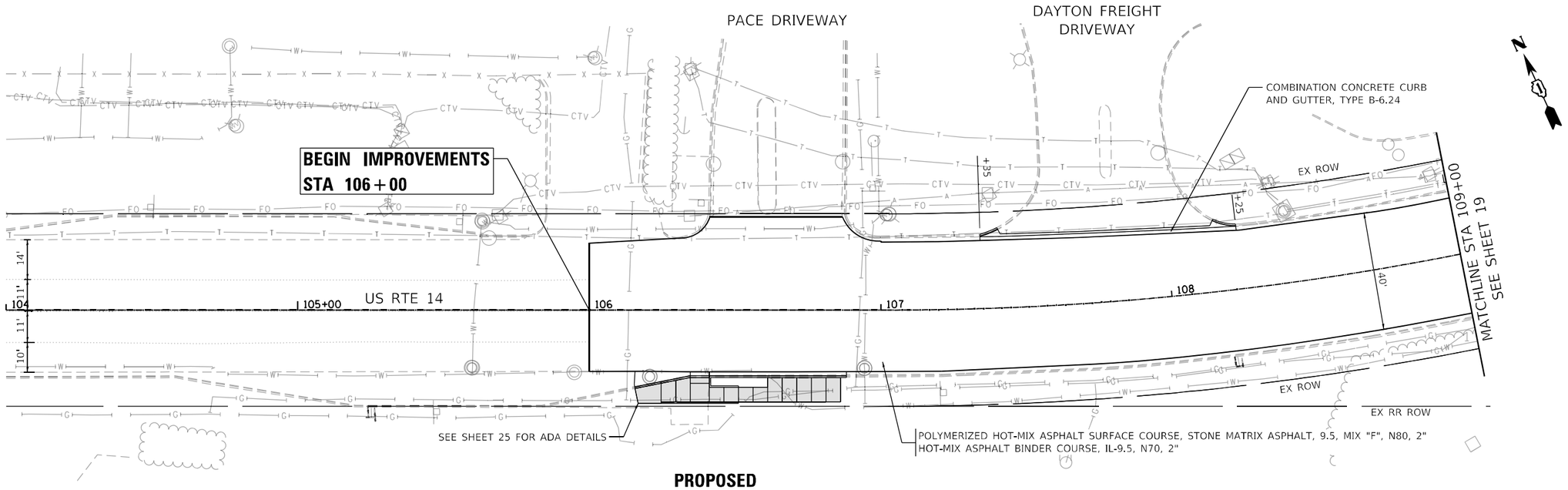
LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- HOT MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- PAVEMENT REMOVAL
- CLASS D PATCHES, 8 INCH
- TREE REMOVAL, ACRES
- BARRIER WALL REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- CORRUGATED MEDIAN REMOVAL

NOTE:

1. THE CONTRACTOR MUST REPLACE THE TEMPORARY RAMP ASSOCIATED WITH THE BUTT JOINT IF THERE IS VISIBLE DETERIORATION AT STATION 106+00. COST INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT. NO ADDITIONAL COMPENSATION WILL BE GIVEN.
2. THE CONTRACTOR MUST REPLACE THE TEMPORARY RAMP AT THE PACE DRIVEWAY IF THERE IS VISIBLE DETERIORATION. COST INCLUDED IN THE COST OF TEMPORARY RAMP. NO ADDITIONAL COMPENSATION WILL BE GIVEN.

REMOVAL



PROPOSED

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Accurate GROUP, INC.

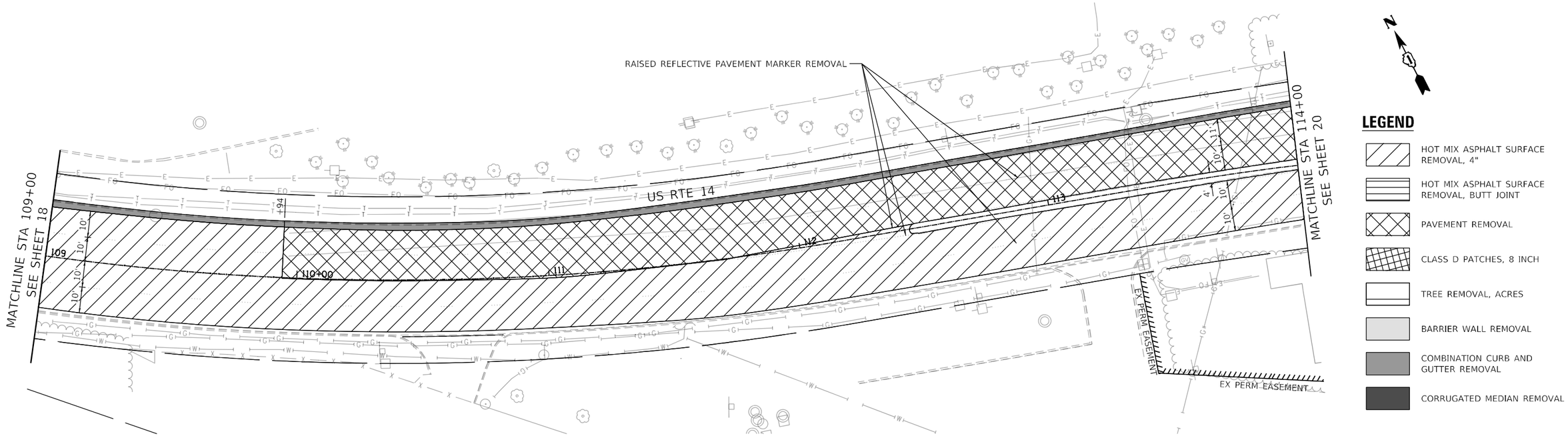
USER NAME = Jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

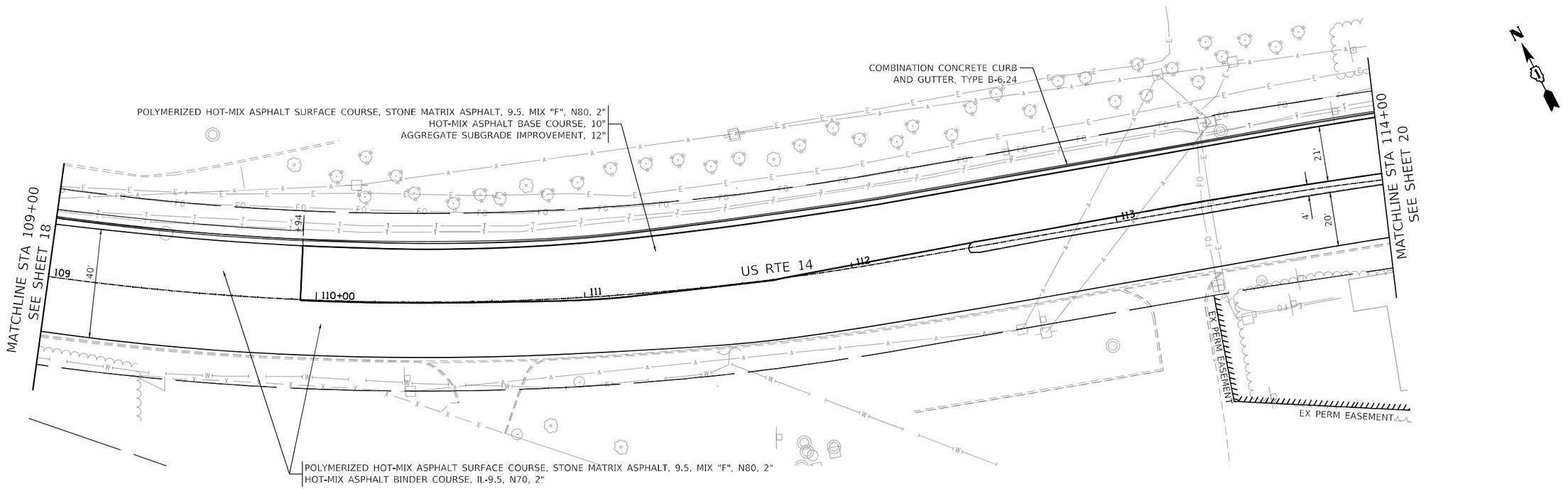
REMOVAL AND PROPOSED PLAN
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	18
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	



REMOVAL



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Accurate GROUP, INC.

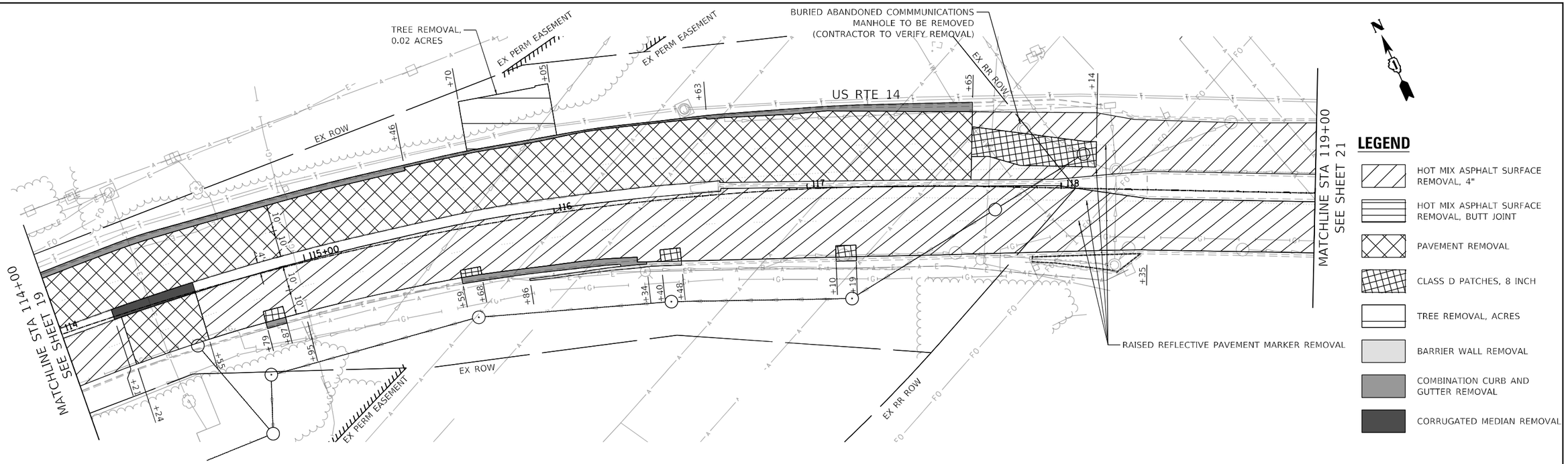
USER NAME = Jdavis	DESIGNED - JJD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

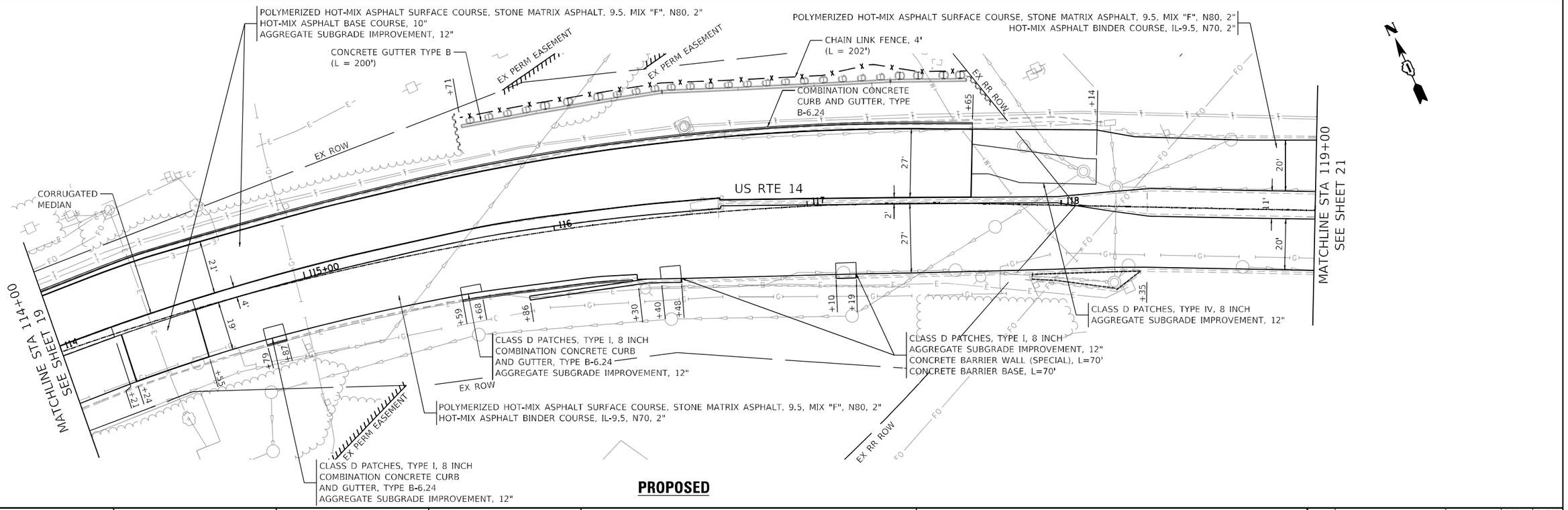
REMOVAL AND PROPOSED PLAN
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	19
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	



REMOVAL



PROPOSED

Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL AND PROPOSED PLAN US ROUTE 14
		DRAWN - DW	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -		SCALE:
	PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -		SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	20
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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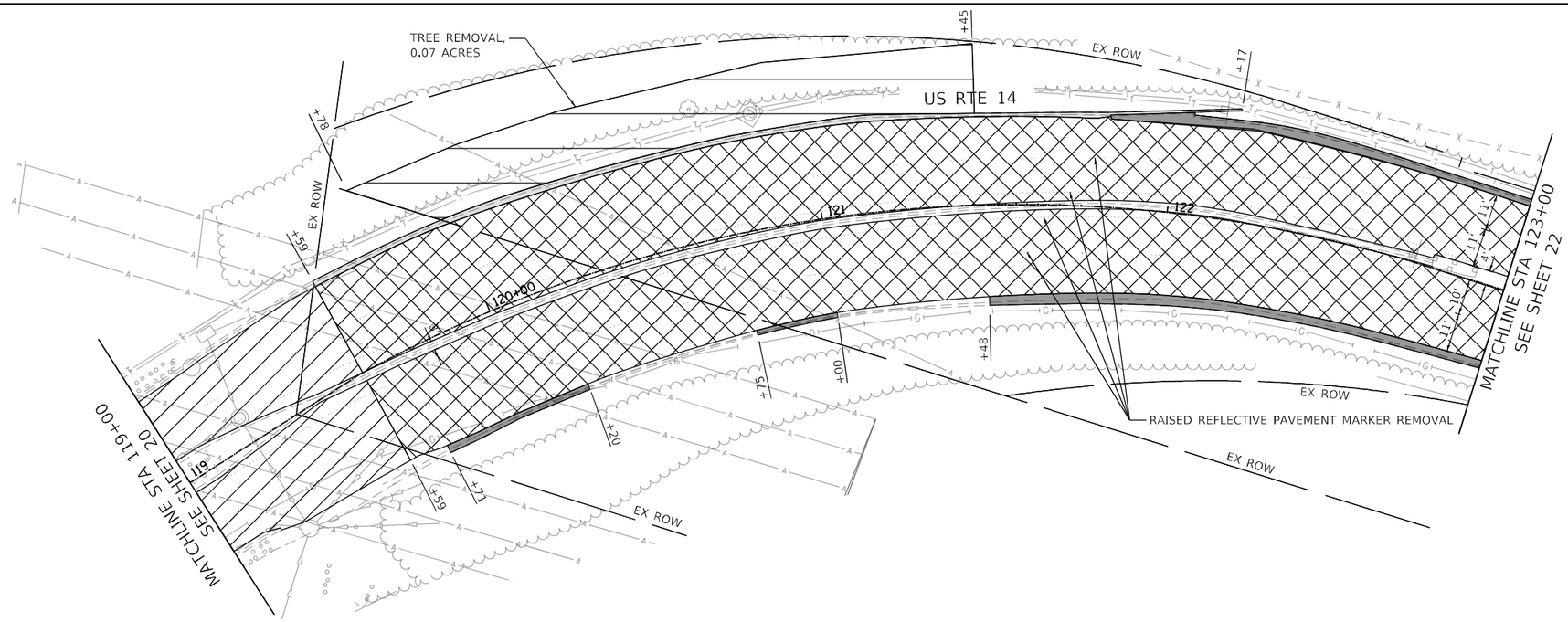
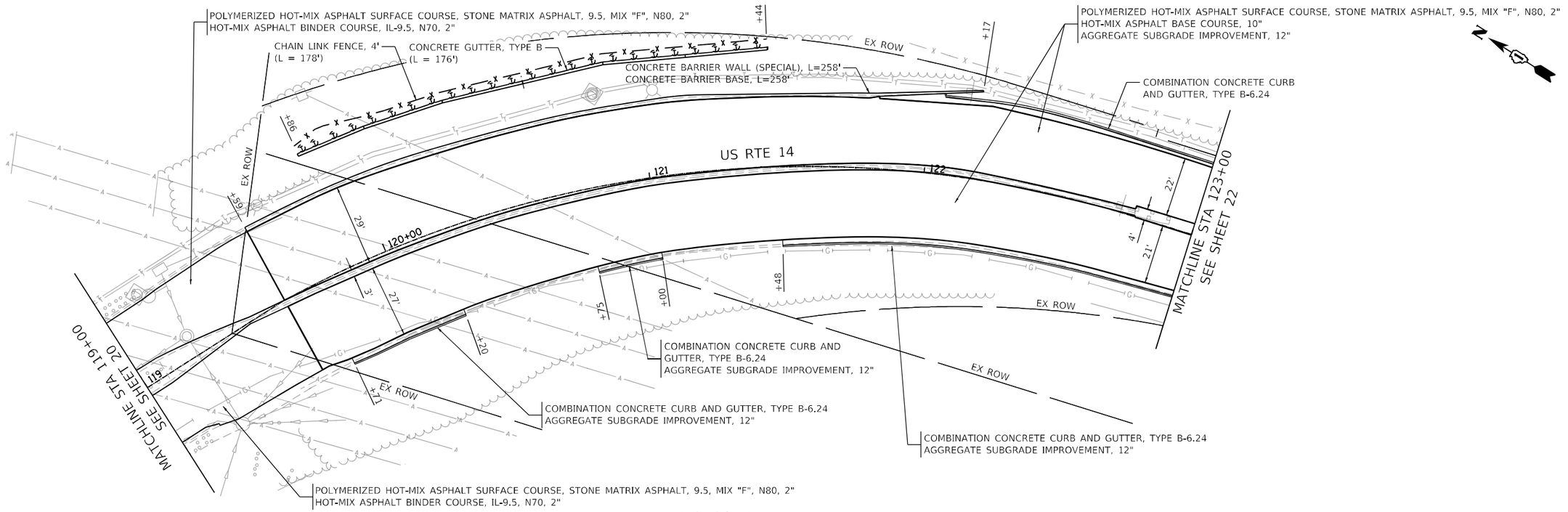


LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- HOT MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- PAVEMENT REMOVAL
- CLASS D PATCHES, 8 INCH
- TREE REMOVAL, ACRES
- BARRIER WALL REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- CORRUGATED MEDIAN REMOVAL

REMOVAL



PROPOSED

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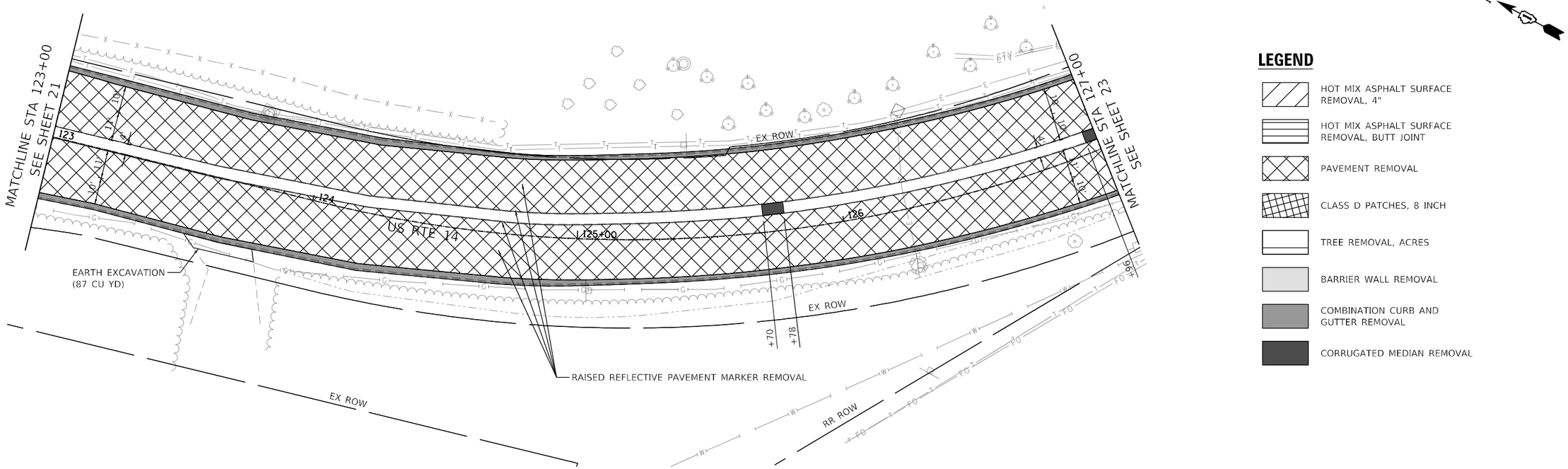
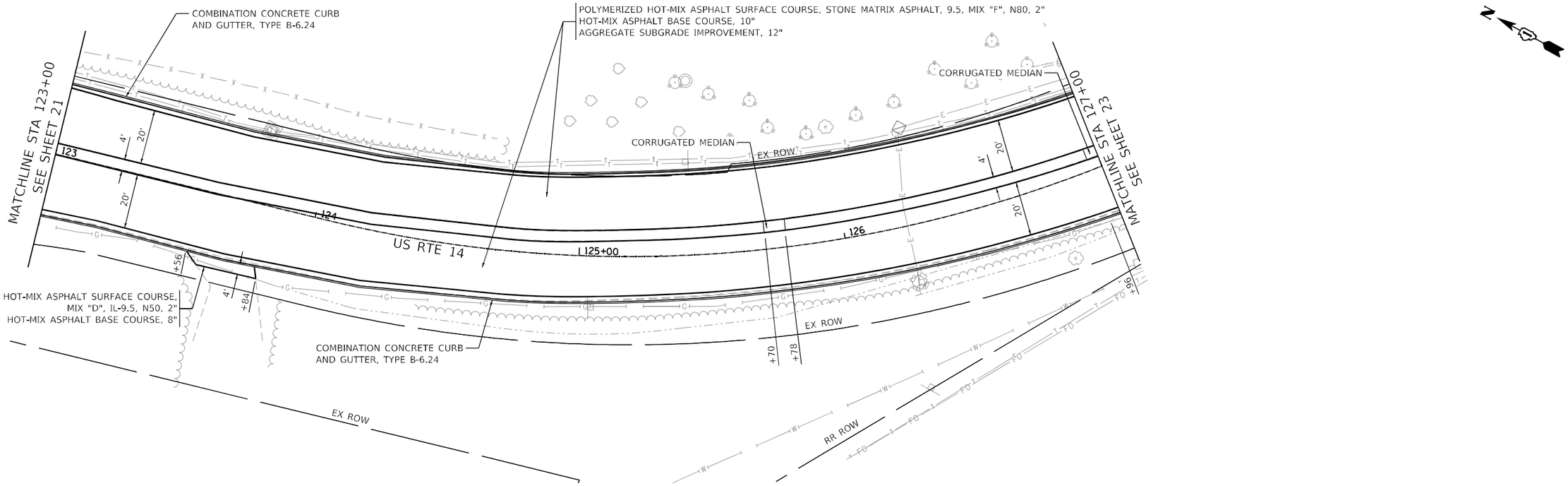
Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL AND PROPOSED PLAN US ROUTE 14
	DRAWN - DW	REVISED -		
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -		SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	21
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



REMOVAL



PROPOSED

Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**REMOVAL AND PROPOSED PLAN US ROUTE 14**
		DRAWN - DW	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -		
	PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -		SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	22
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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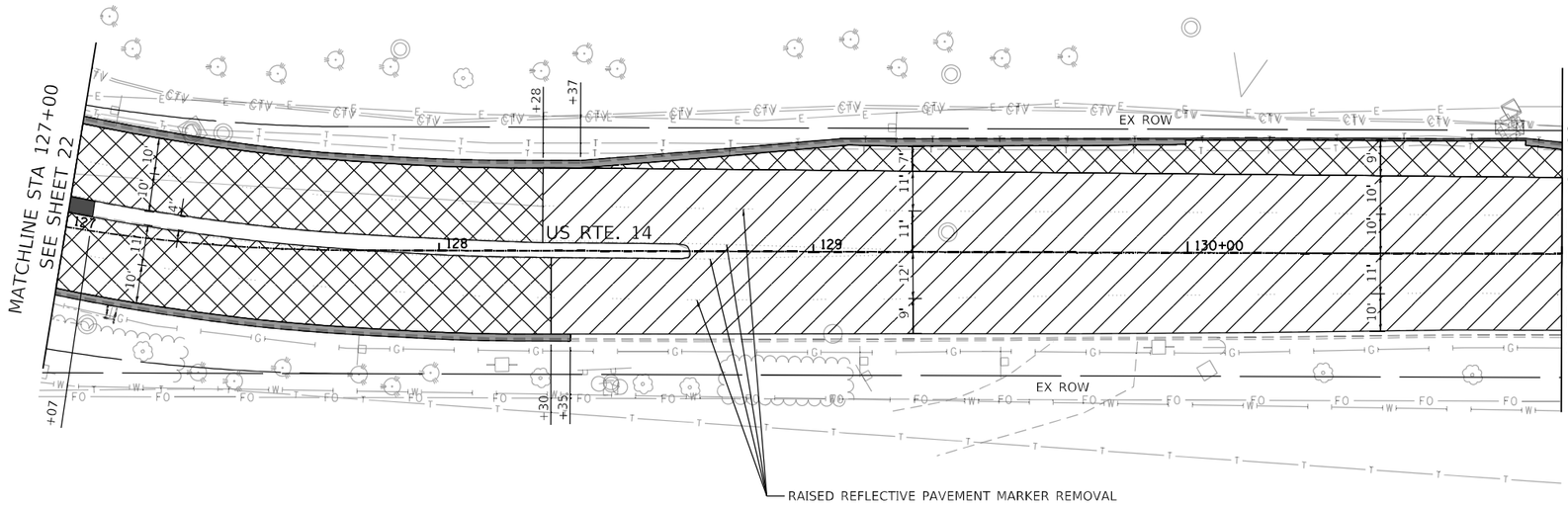
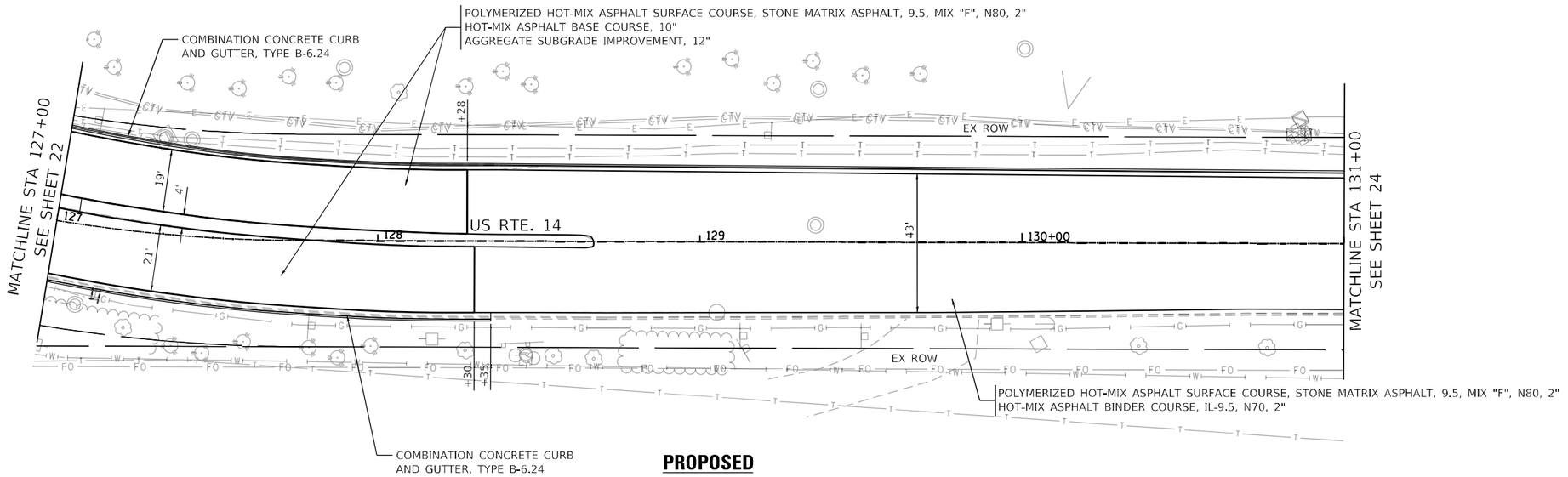


REMOVAL

LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- HOT MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- PAVEMENT REMOVAL
- CLASS D PATCHES, 8 INCH
- TREE REMOVAL, ACRES
- BARRIER WALL REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- CORRUGATED MEDIAN REMOVAL



PROPOSED

Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL AND PROPOSED PLAN US ROUTE 14
		DRAWN - DW	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -		
	PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -		SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	23
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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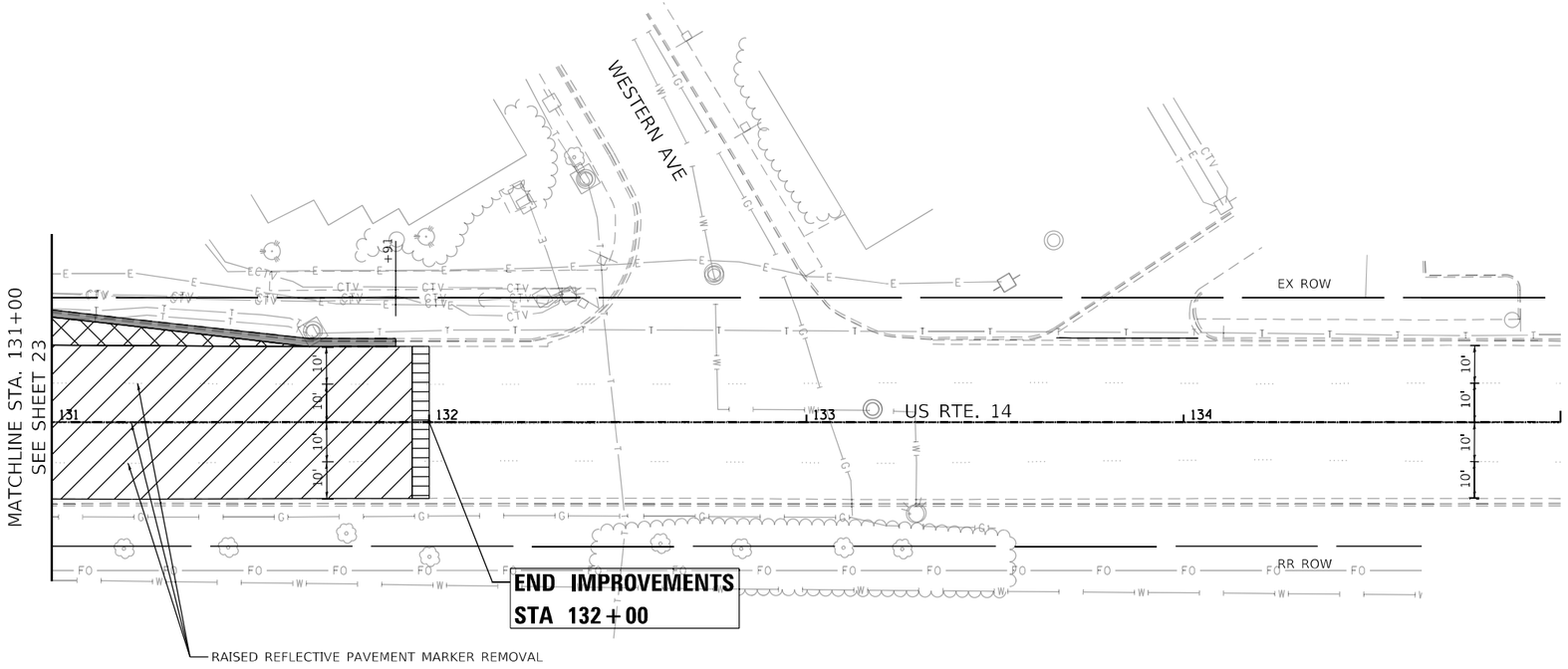
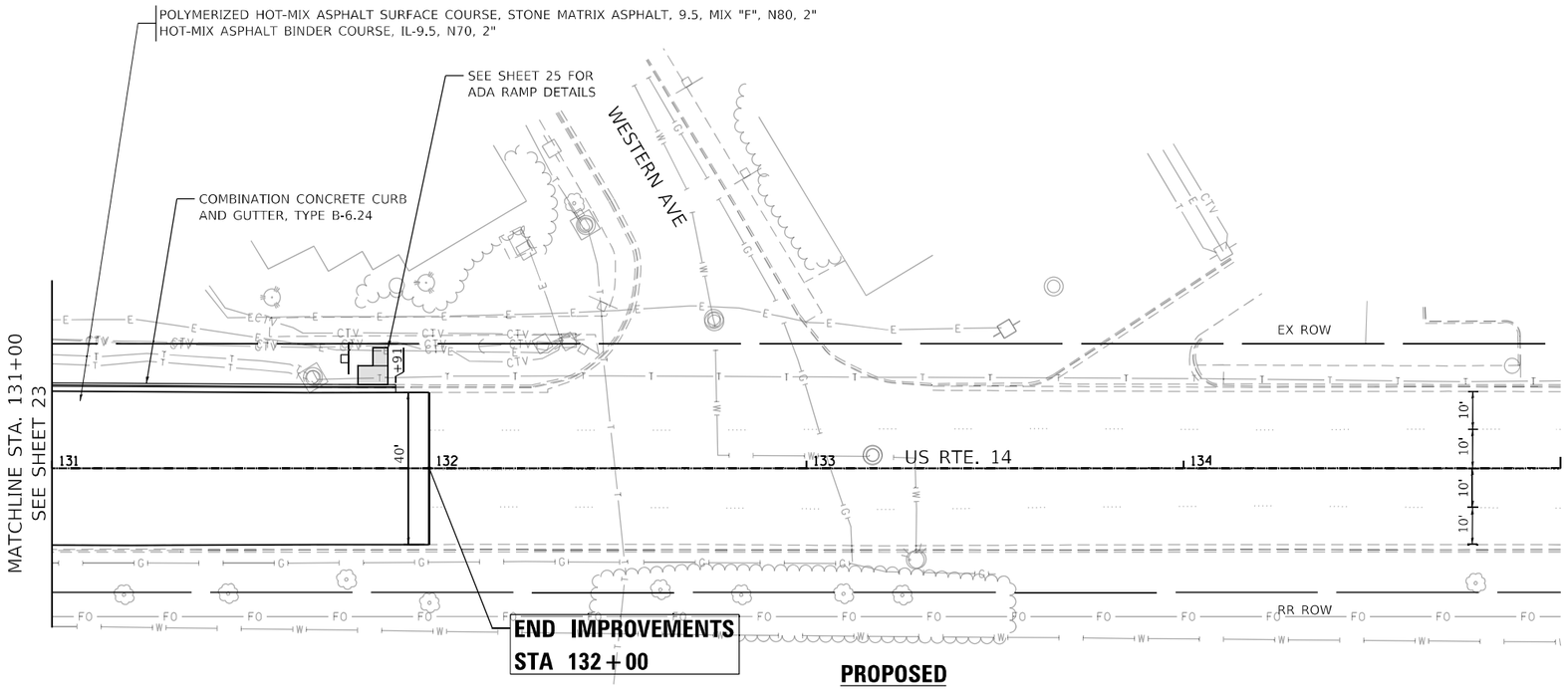


REMOVAL

LEGEND

- HOT MIX ASPHALT SURFACE REMOVAL, 4"
- HOT MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- PAVEMENT REMOVAL
- CLASS D PATCHES, 8 INCH
- TREE REMOVAL, ACRES
- BARRIER WALL REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- CORRUGATED MEDIAN REMOVAL



PROPOSED

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Accurate GROUP, INC.

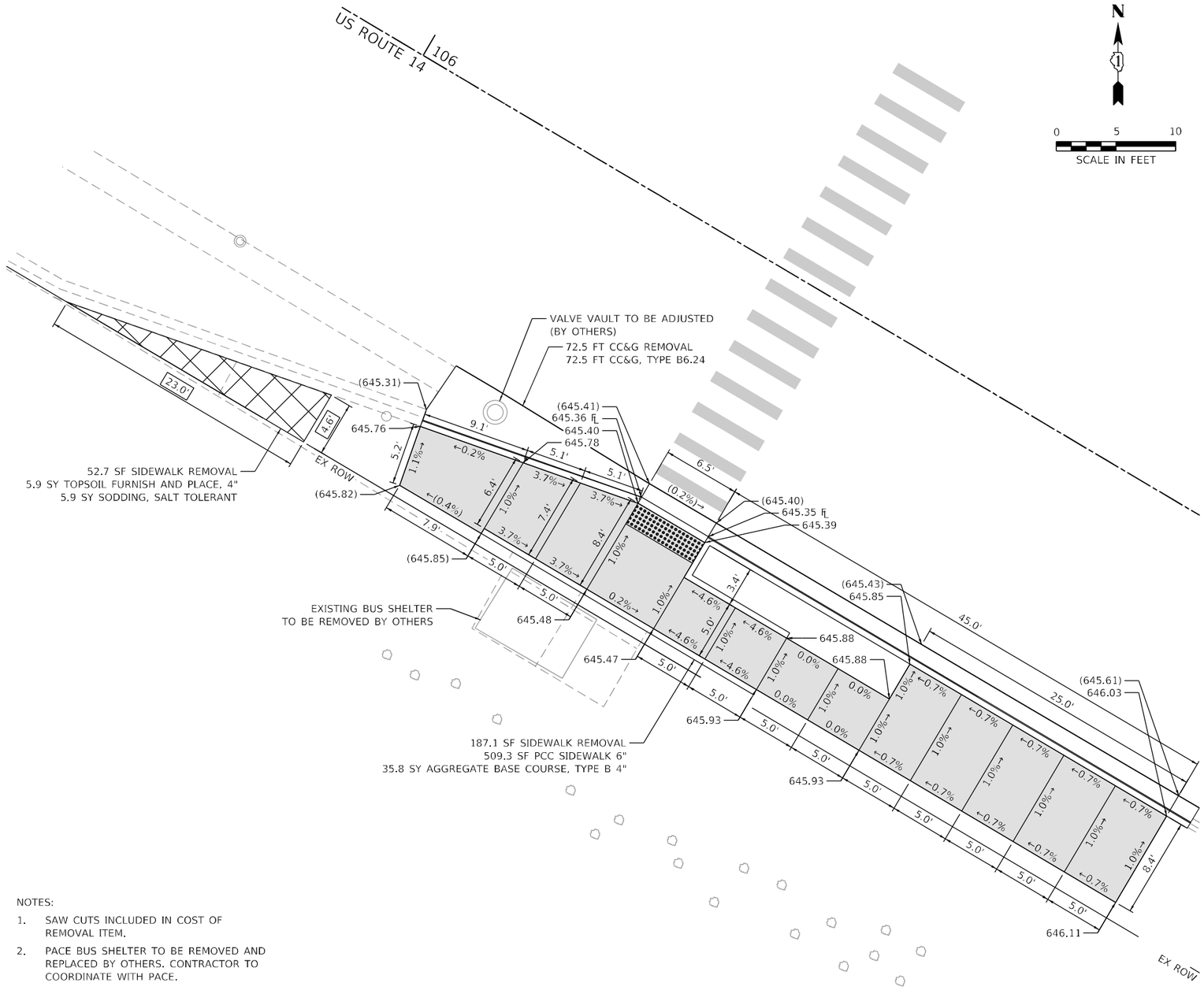
USER NAME = Jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	24
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

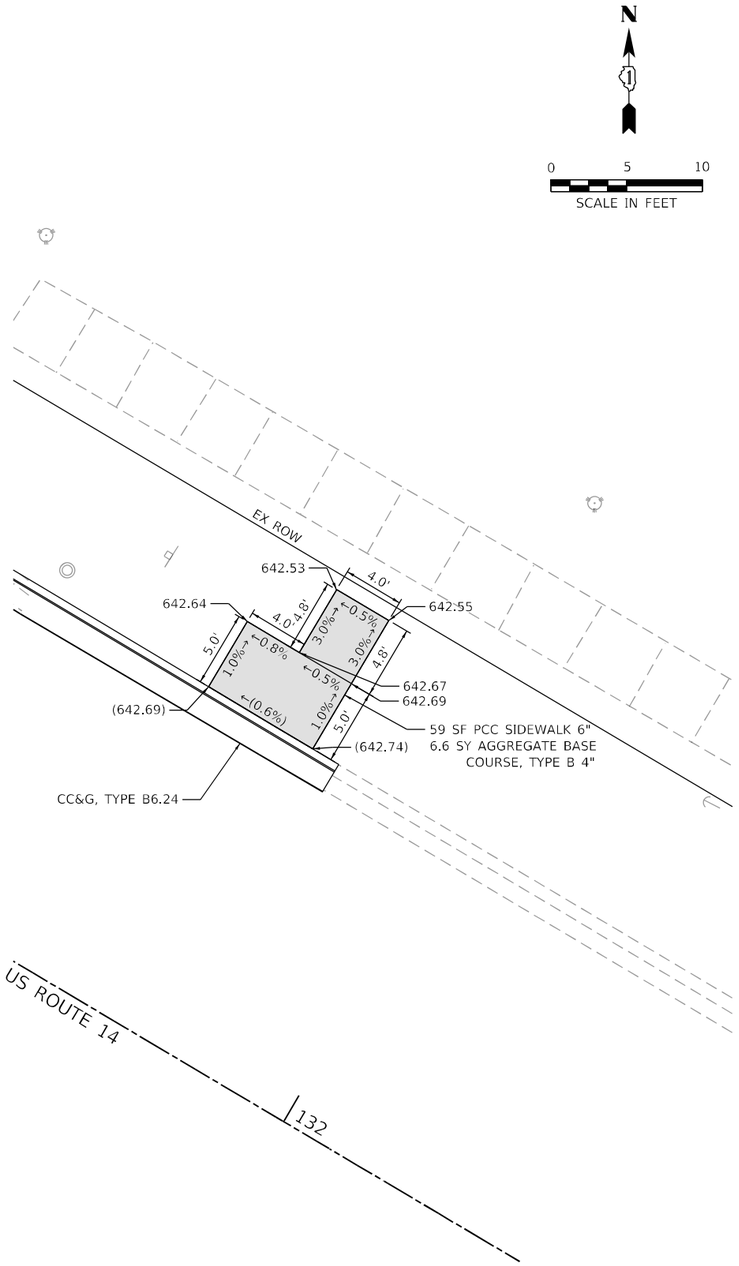


NOTES:

1. SAW CUTS INCLUDED IN COST OF REMOVAL ITEM.
2. PACE BUS SHELTER TO BE REMOVED AND REPLACED BY OTHERS. CONTRACTOR TO COORDINATE WITH PACE.

LOCATION:

STA 105+85 TO STA 106+86
RIGHT SIDE OF US 14 (NORTHWEST HWY)



LOCATION:

STA 131+81 TO STA 131+89
LEFT SIDE OF US 14 (NORTHWEST HWY)

LEGEND

XX.X' EXISTING LENGTH

( ) EXISTING ELEVATION/SLOPE

PROPOSED SIDE CURB

DETECTABLE WARNINGS

PROPOSED SIDEWALK

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	25
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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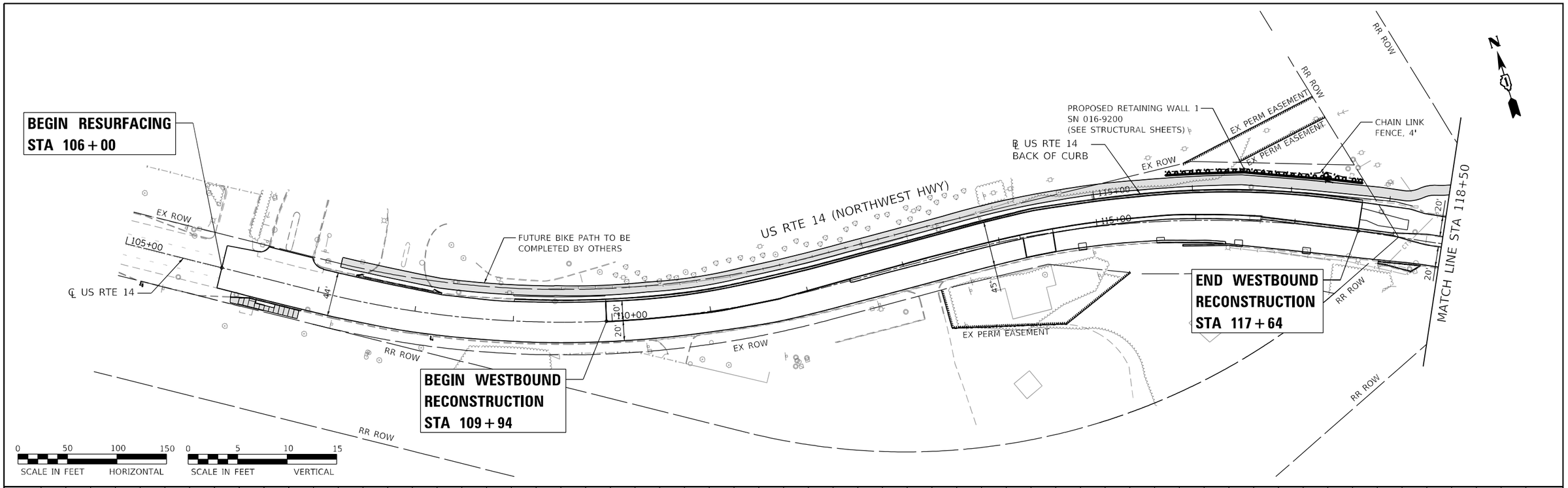

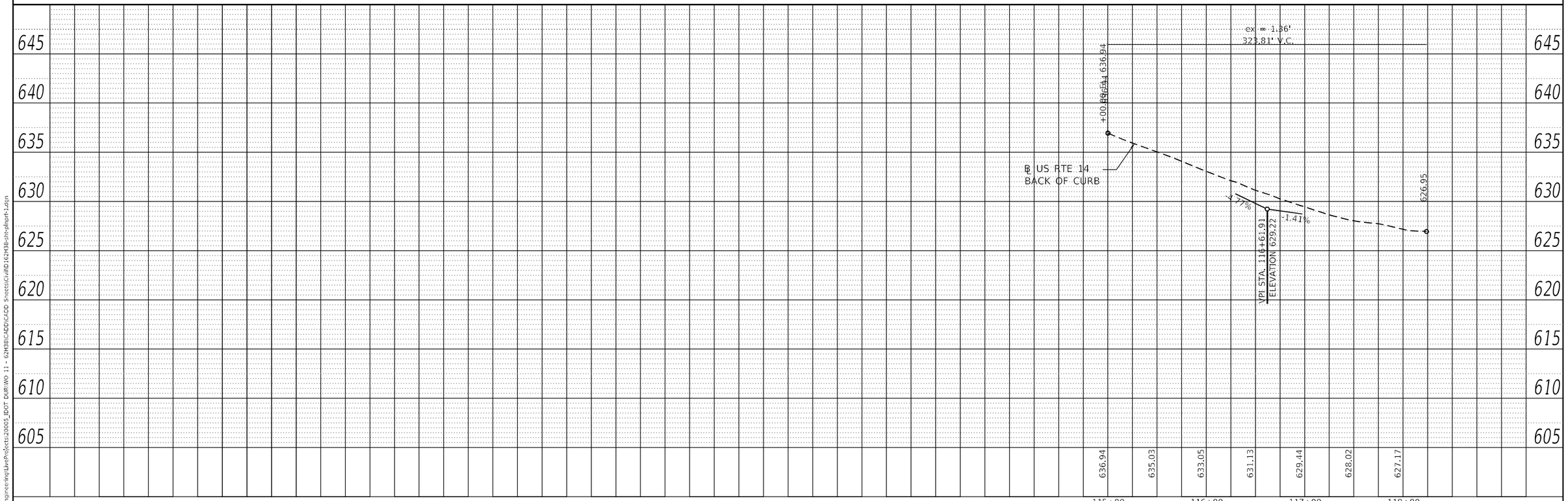

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Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DW	REVISED -	
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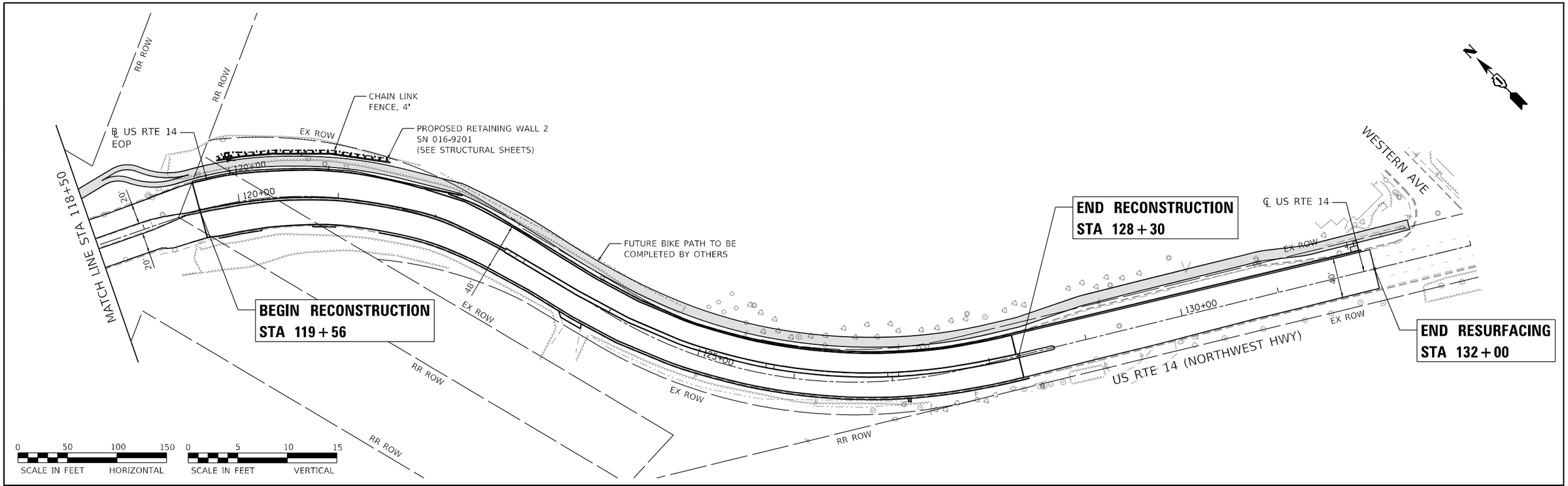
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FUTURE BIKE PATH PLAN AND PROFILE
US ROUTE 14

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	26
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -
		DRAWN - DW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -
	PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FUTURE BIKE PATH PLAN AND PROFILE
US ROUTE 14

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	27
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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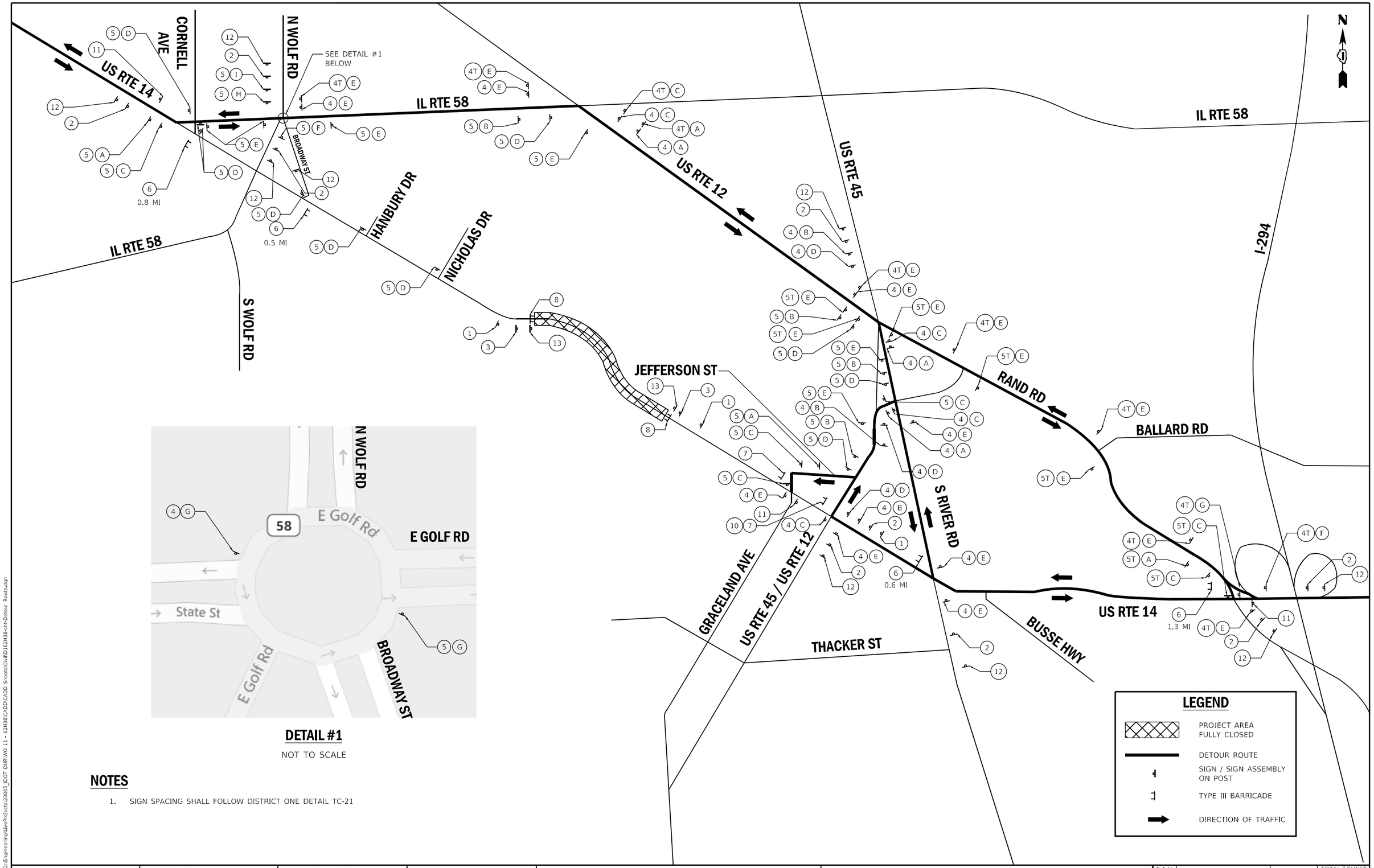


DETAIL #1

NOT TO SCALE

NOTES

1. SIGN SPACING SHALL FOLLOW DISTRICT ONE DETAIL TC-21

LEGEND

- PROJECT AREA FULLY CLOSED
- DETOUR ROUTE
- SIGN / SIGN ASSEMBLY ON POST
- TYPE III BARRICADE
- DIRECTION OF TRAFFIC

FILE NAME = Q:\Engineering\LivePrjects\20005_IDOT DUR\WO 11 - 62H38\GADD\C4DD.SheetsCrit\WO 162H38-sht-Detour Route.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DGM	REVISED -	
PLOT SCALE = 1000.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -	

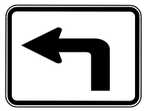
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

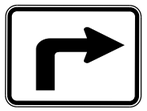
TRAFFIC CONTROL AND PROTECTION – DETOUR PLAN
US ROUTE 14

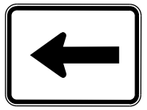
SCALE: 500 | SHEET 1 OF 4 SHEETS | STA. | TO STA.

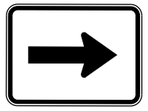
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	28
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

SIGN LEGEND

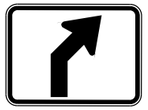
Ⓐ  M5-1L(O)-2115

Ⓑ  M5-1R(O)-2115

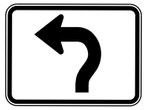
Ⓒ  M6-1L(O)-2115

Ⓓ  M6-1R(O)-2115

Ⓔ M6-3(O)-2115

Ⓕ  M5-2R(O)-2115

Ⓖ M6-2R(O)-2115

Ⓗ  M5-3(O)-2115

Ⓘ

M5-4(O)-2115

FLASHING AMBER LIGHT (TYP.)

①

W20-3(0)-4848

②

W20-2(0)-4848

③

W20-3(0)-4848

④

M4-8-2412
M3-4-2412
M1-4-2424

④T

M4-1a-2412
M4-8-2412
M3-4-2412
M1-4-2424

⑤

M4-8-2412
M3-2-2412
M1-4-2424

⑤T

M4-1a-2412
M4-8-2412
M3-2-2412
M1-4-2424

⑥

R11-3a-6030

⑦

R11-4-6030

⑧

R11-2-6030

⑨

M4-10L-4818

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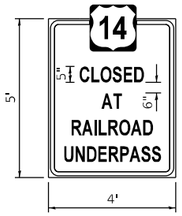
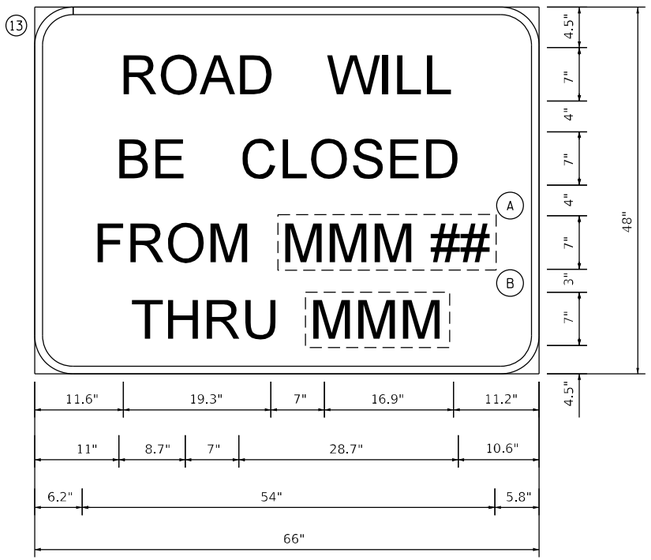
⑫ 

⑬ 

NOTES APPLYING ONLY TO SIGN 13:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS (A) AND (B) 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.
3. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
4. ONE SIGN ASSEMBLY EQUALS 27.3 SQ. FT.
5. EACH SIGN ASSEMBLY SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING".

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF DES PLAINES 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.
2. SIGNS FOR THE DETOUR ARE INCLUDED IN THE CONTRACT LUMP SUM COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. SIGN SHALL BE PLACED ACCORDING TO DISTRICT ONE DETAIL TC-21.
4. 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.
5. FOR TYPICAL SIGN INSTALLATION - SEE HIGHWAY STANDARD 701901.
6. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.
7. TEMPORARY TRAFFIC SIGNAL TIMING WILL BE REQUIRED AT THE FOLLOWING INTERSECTIONS:
   - MINER ST (US RTE 14) AND RAND RD
   - MINER ST (US RTE 14) AND RIVER RD
   - MINER ST (US RTE 14) AND PEARSON ST
   - MINER ST (US RTE 14) AND LEE ST (US RTE 12/45)
   - MINER ST (US RTE 14) AND GRACELAND AVE (US RTE 12/45)
   - GRACELAND AVE (US RTE 12/45) AND JEFFERSON ST (US RTE 12/45)
   - LEE ST (US RTE 12/45) AND PERRY ST
   - ELK BLVD (US RTE 12/45) AND RIVER RD (US RTE 12/45)
   - RAND RD AND BALLARD RD
   - RAND RD AND ELK BLVD
   - RAND RD (US RTE 12) AND RIVER RD (US RTE 45)
   - RAND RD (US RTE 12) AND GOLF RD (IL RTE 58)
   - GOLF RD (IL RTE 58) AND 6TH AVE
   - STATE ST AND NORTHWEST HIGHWAY (US RTE 14)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION – DETOUR SIGNAGE
US ROUTE 14

SCALE: 500 | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	29
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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 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.

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 2A:
    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 EROSIVE 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 CONSRUCTION 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.

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.

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 AND INSTALL INLET FILTERS AS SHOWN ON THE PLANS.
3. CONSTRUCT PROJECT REMOVALS AND IMPROVEMENTS AS SHOWN ON THE PLANS.
4. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION. TEMPORARY STABILIZATION OF EACH DISTURBED AREA SHOULD BE COMPLETED BEFORE WORK BEGINS ON OTHER AREAS.
5. STABILIZE DISTURBED AREAS WITH TEMPORARY EROSION CONTROL MEASURES. USE THE PERMANENT SEEDING WITH EROSION CONTROL BLANKET AS SHOWN ON THE PLANS FOR PERMANENT STABILIZATION. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED WHERE THE SLOPE EXCEEDS 1:3.
6. 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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL GENERAL NOTES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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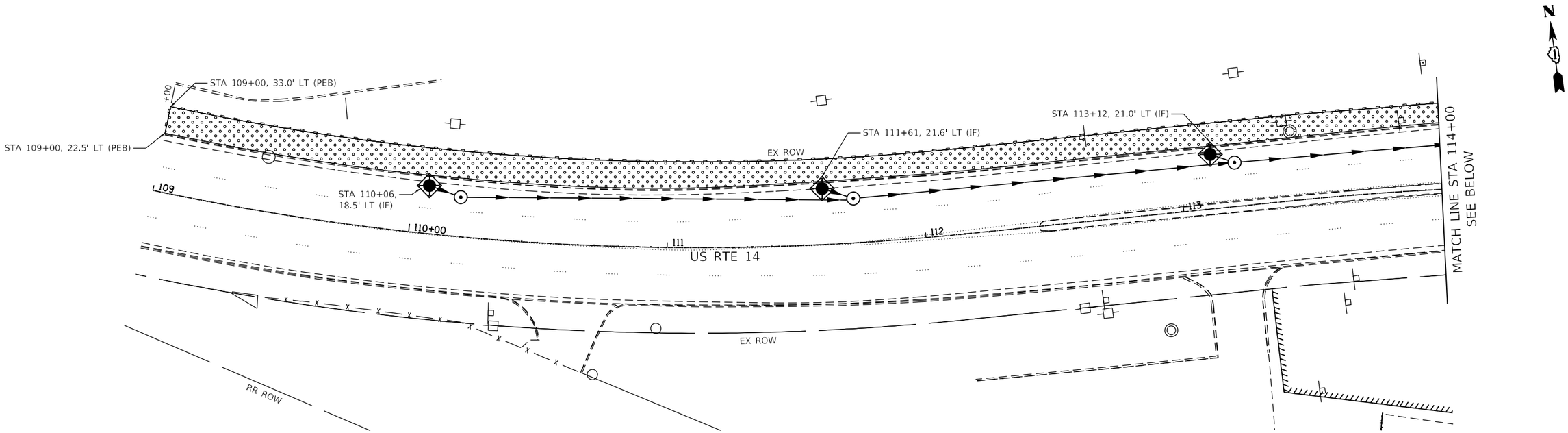
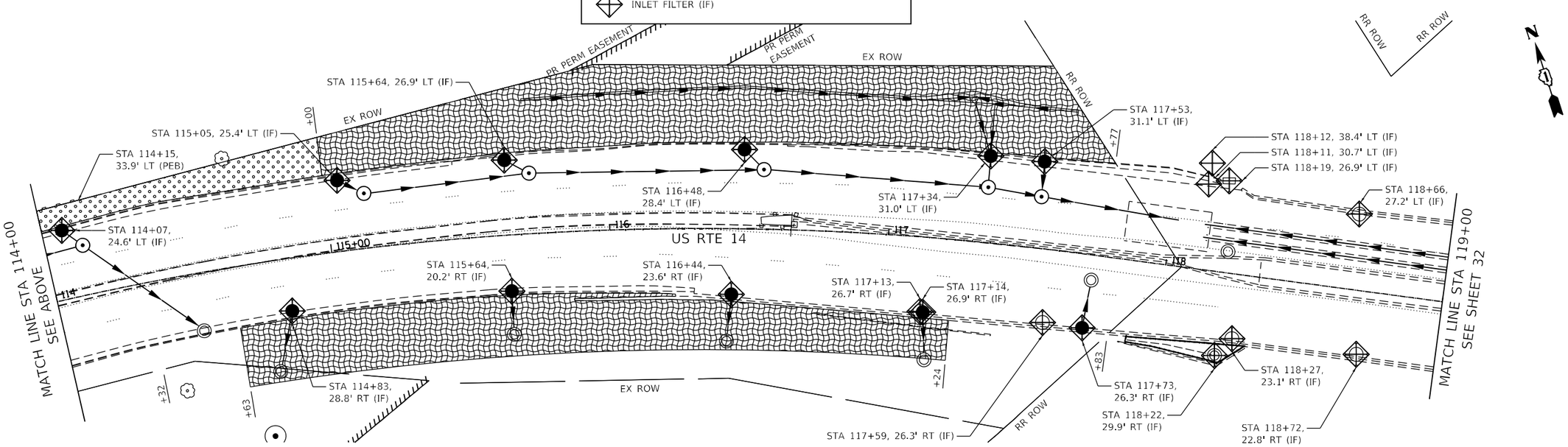
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



EROSION CONTROL LEGEND

- TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (PEB)
- INLET FILTER (IF)



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		CONTRACT NO. 62H38		
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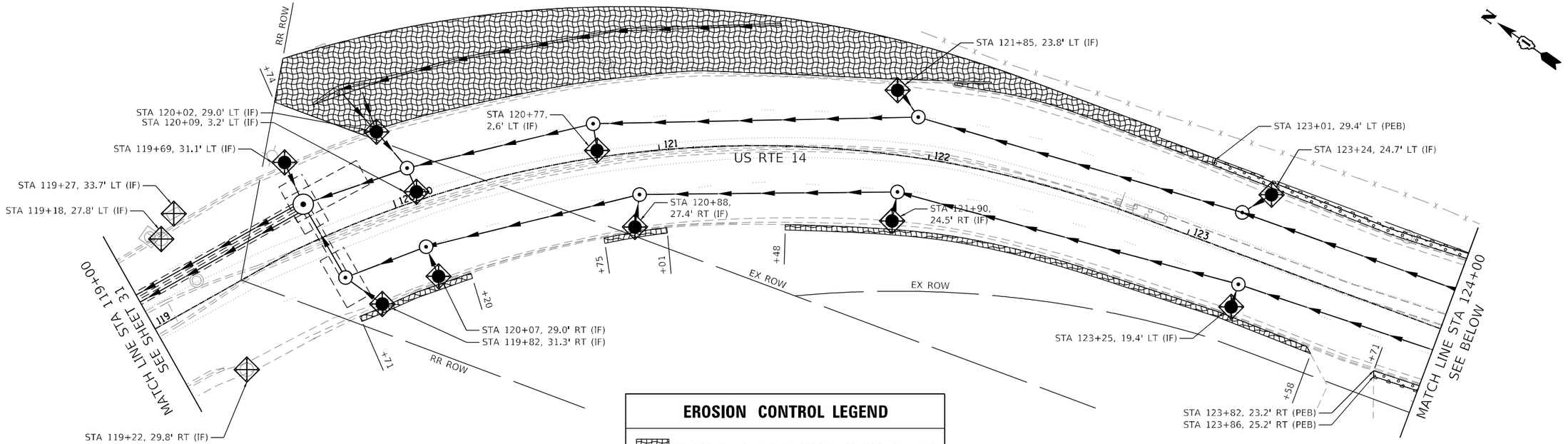
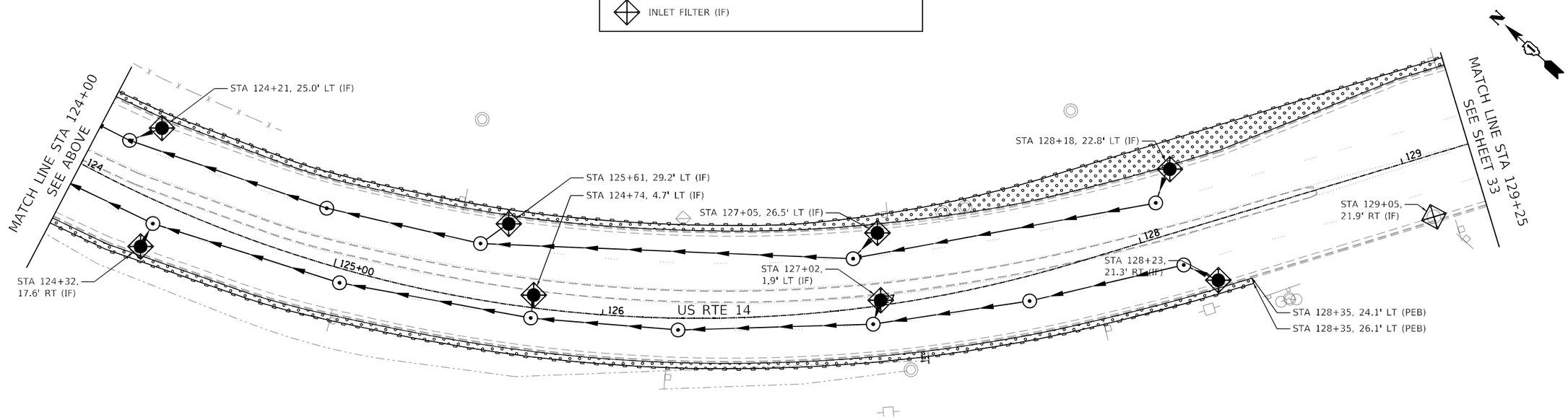


EROSION CONTROL LEGEND

- TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (PEB)
- INLET FILTER (IF)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
US ROUTE 14

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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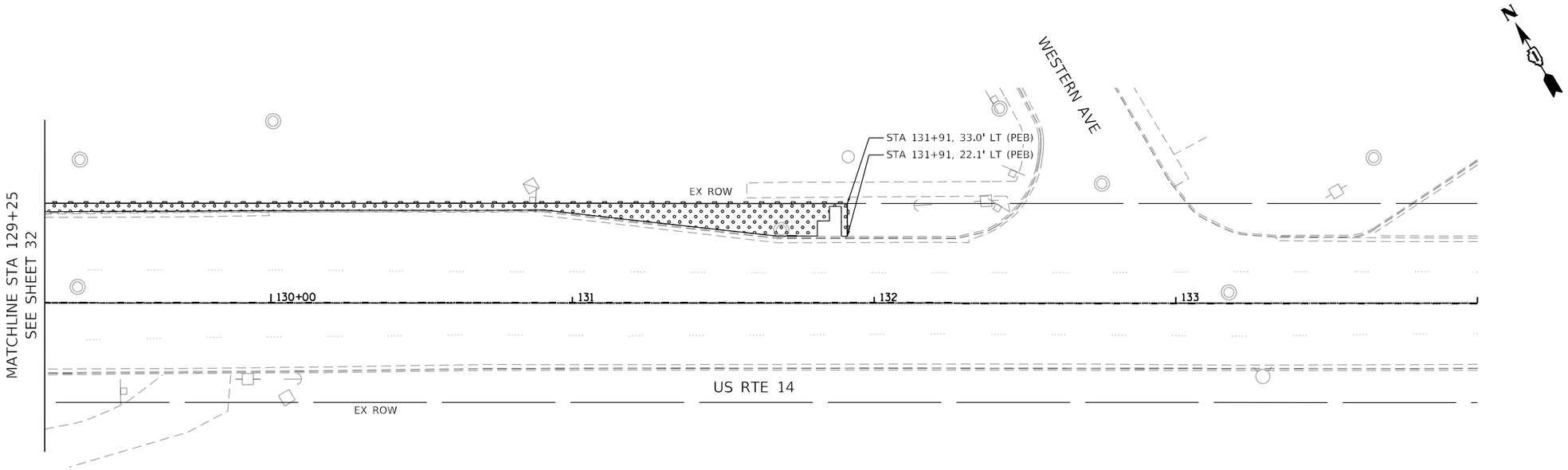
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



EROSION CONTROL LEGEND

- TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (PEB)
- INLET FILTER (IF)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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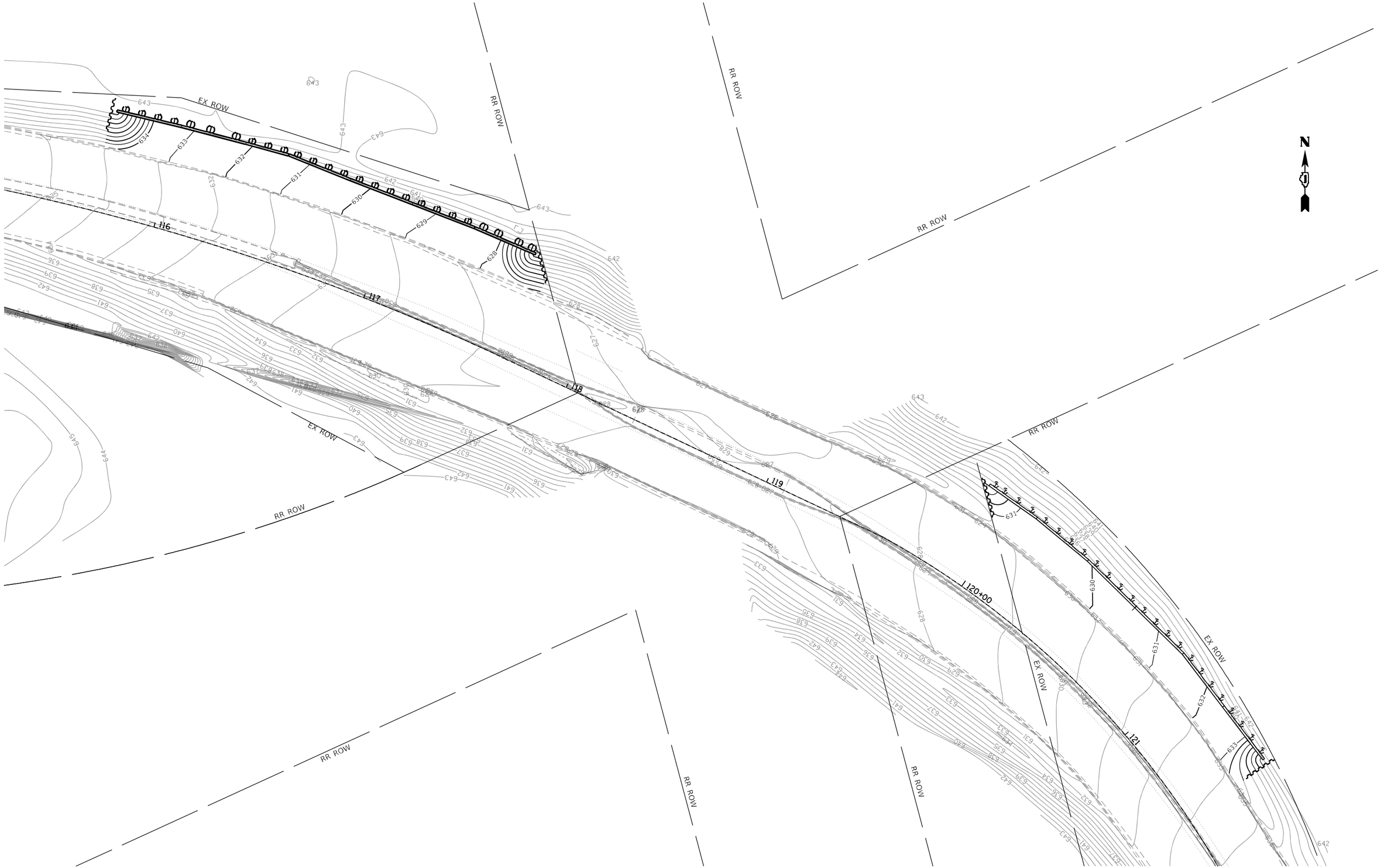
	ILLINOIS	FED. AID PROJECT SVKO(134)		



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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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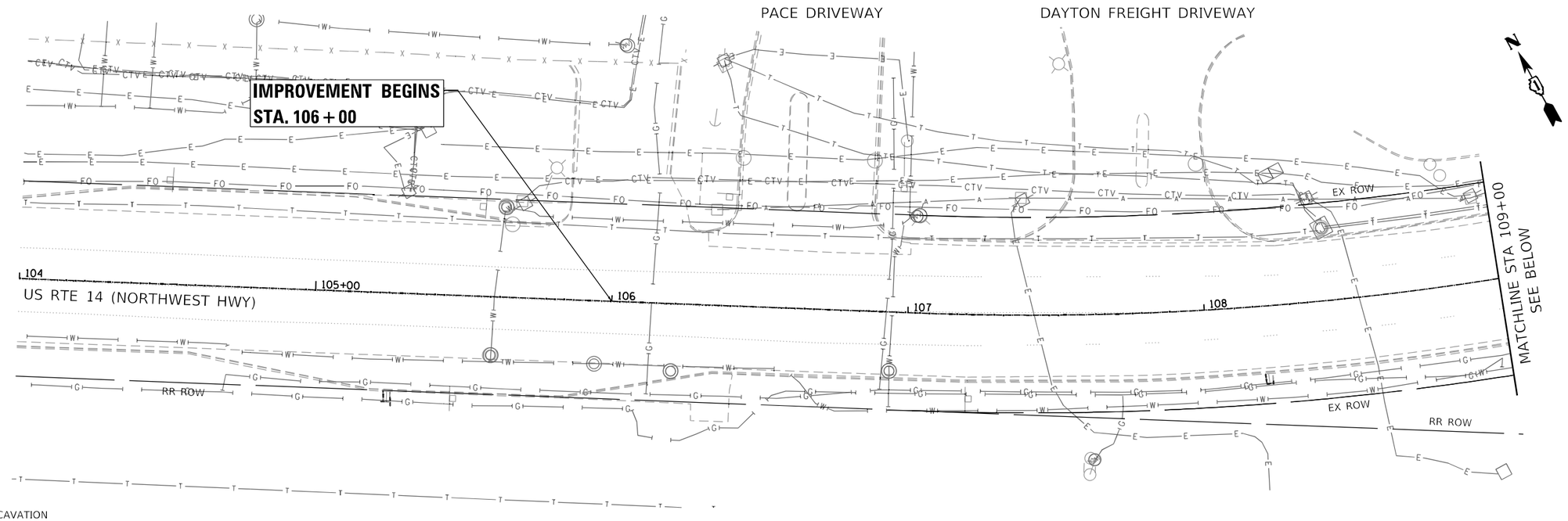
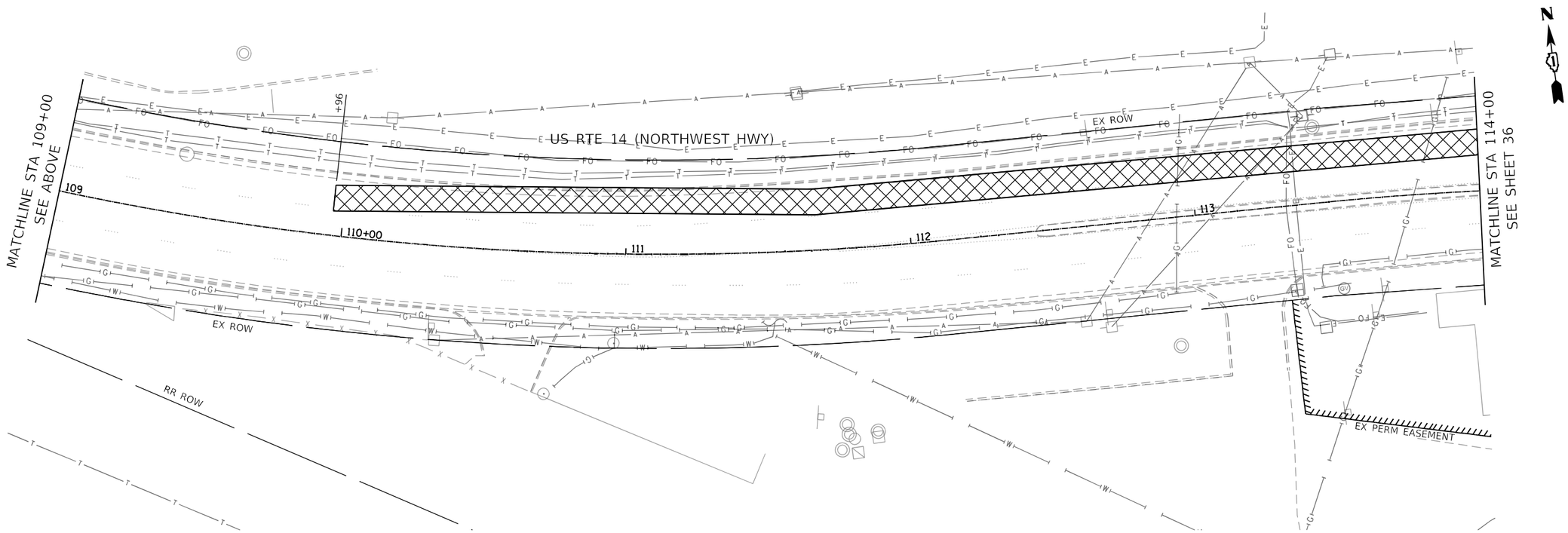
	ILLINOIS	FED. AID PROJECT SVKO(134)		



LEGEND

LIMITS OF EXCAVATION FOR PROPOSED STORM SEWER

STORM SEWER REMOVAL, 18"



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 14

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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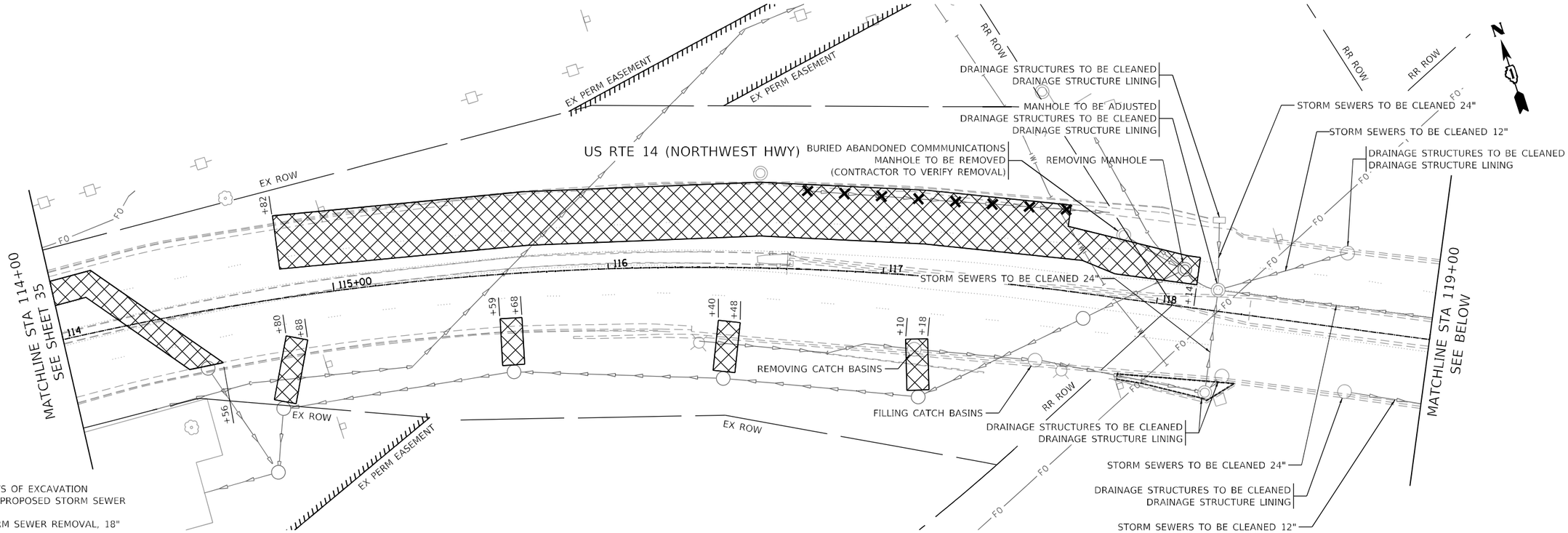
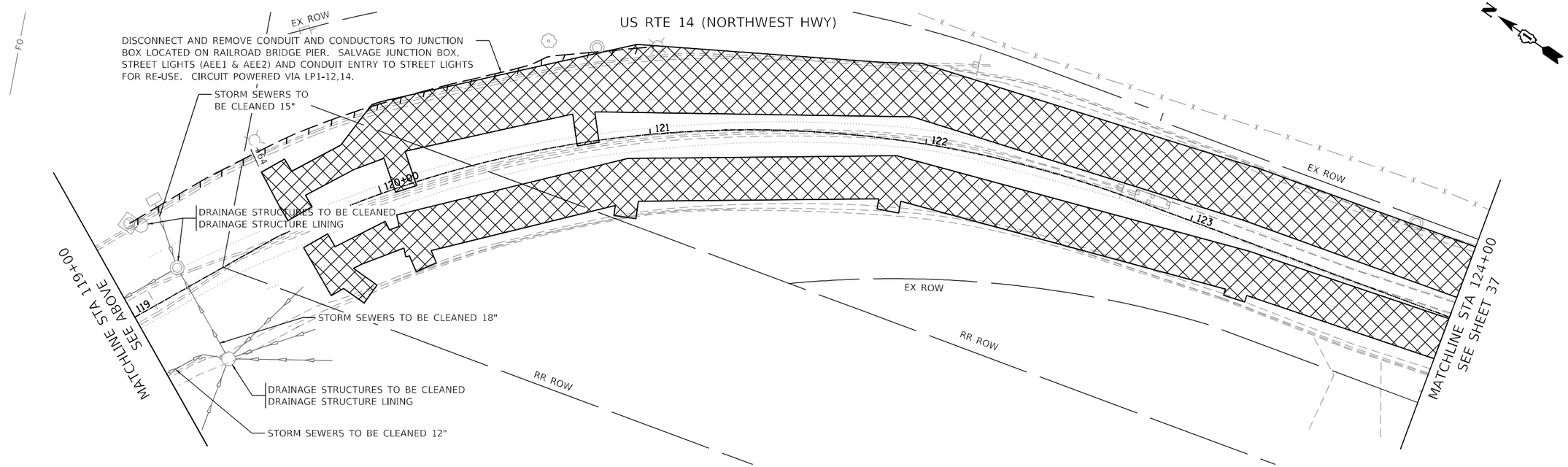
	ILLINOIS	FED. AID PROJECT SVKO(134)		





Accurate GROUP, INC.	USER NAME = Jdavis	DESIGNED - JJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REMOVAL PLAN US ROUTE 14
		DRAWN - DW	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -		
	PLOT DATE = 1/26/2022	DATE - 10/15/2021	REVISED -		SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	36
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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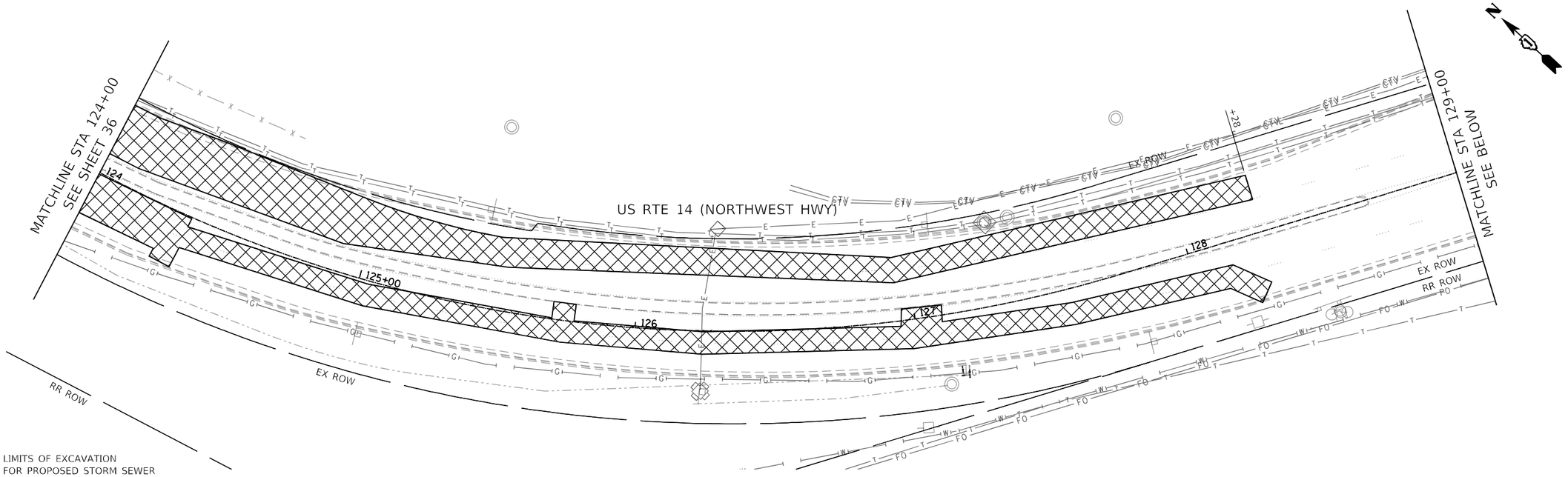
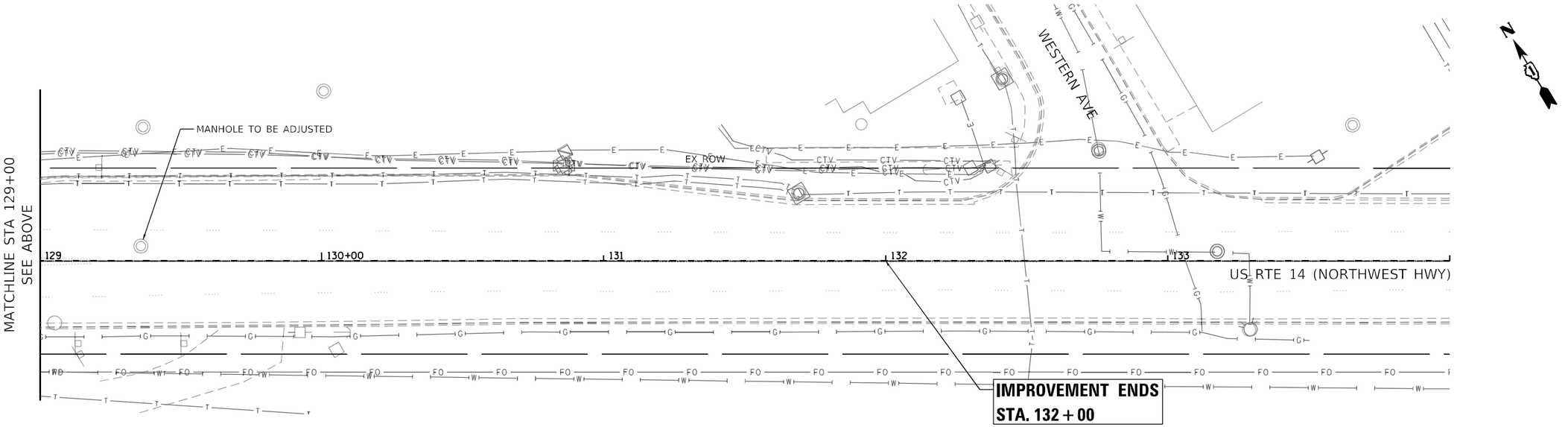


LEGEND

LIMITS OF EXCAVATION FOR PROPOSED STORM SEWER

STORM SEWER REMOVAL, 18"



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Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - DW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	37
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

STORM SEWER REMOVAL 18"

FROM STA	TO STA	OFFSET	LENGTH
116+70	117+64	LT	98

REMOVING CATCH BASINS

FROM STA	OFFSET	EACH
117+13	RT	1

FILLING CATCH BASINS

FROM STA	OFFSET	EACH
117+59	RT	1

REMOVING MANHOLES

FROM STA	OFFSET	EACH
117+85	LT	1
118+09	LT	1

STORM SEWERS TO BE CLEANED 24"

FROM STA	TO STA	OFFSET	LENGTH
118+18	118+21	LT	25
118+21	118+22	RT	28
118+21	119+22	LT	101

STORM SEWERS TO BE CLEANED 18"

FROM STA	TO STA	OFFSET	LENGTH
119+22	119+22	LT	38

STORM SEWERS TO BE CLEANED 15"

FROM STA	TO STA	OFFSET	LENGTH
119+22	119+27	RT	27

STORM SEWERS TO BE CLEANED 12"

FROM STA	TO STA	OFFSET	LENGTH
118+21	118+66	LT	49
118+72	119+22	RT	53

DRAINAGE STRUCTURES TO BE CLEANED

STA	OFFSET	EACH
118+19	LT	1
118+21	LT	1
118+22	RT	1
118+27	RT	1
118+66	LT	1
118+72	RT	1
119+18	LT	1
119+22	LT	1
119+22	RT	1

DRAINAGE STRUCTURE LINING

FROM STA	TO STA	OFFSET	LENGTH	DIAMETER
118+18	118+21	LT	15	24
118+21	118+22	RT	15	24
118+21	119+22	LT	15	24
118+21	118+66	LT	15	12
118+72	119+22	RT	15	12
119+22	119+27	RT	15	15
119+22	119+22	LT	15	18

DRAINAGE STRUCTURE LINING

STA	OFFSET	RIM ELE.	INV.
118+19	LT	626.46	2.0'
118+21	LT	627.09	8.3'
118+22	RT	626.58	10.0'
118+27	RT	626.74	9.0'
118+66	LT	626.51	10.0'
118+72	RT	626.36	6.4'
119+18	LT	626.87	6.5'
119+22	LT	627.15	7.2'
119+22	RT	626.44	10.0'

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Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -
	DRAWN - JJD	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/26/2022	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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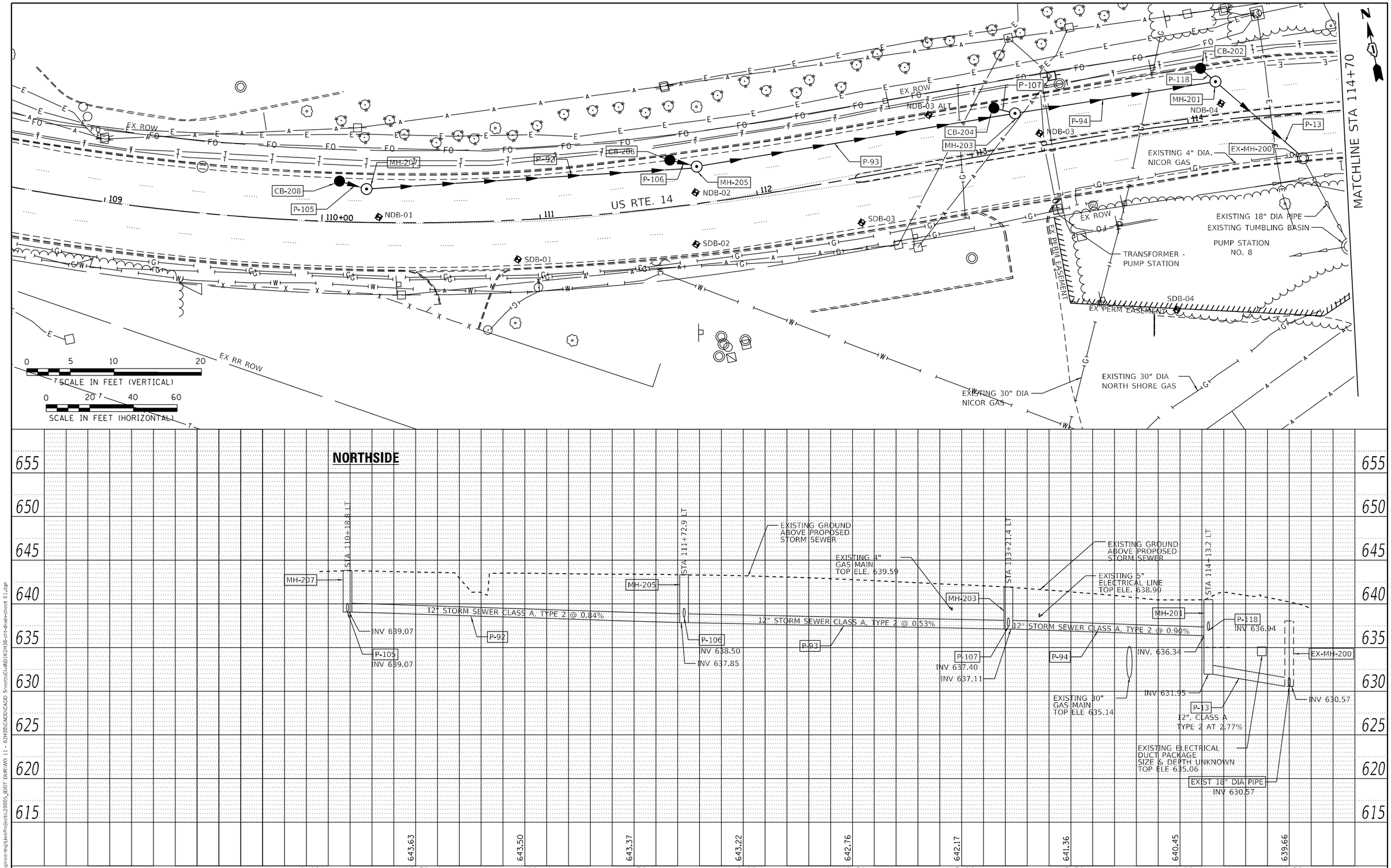
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



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Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JJD	REVISED -
	DRAWN - JJD	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/26/2022	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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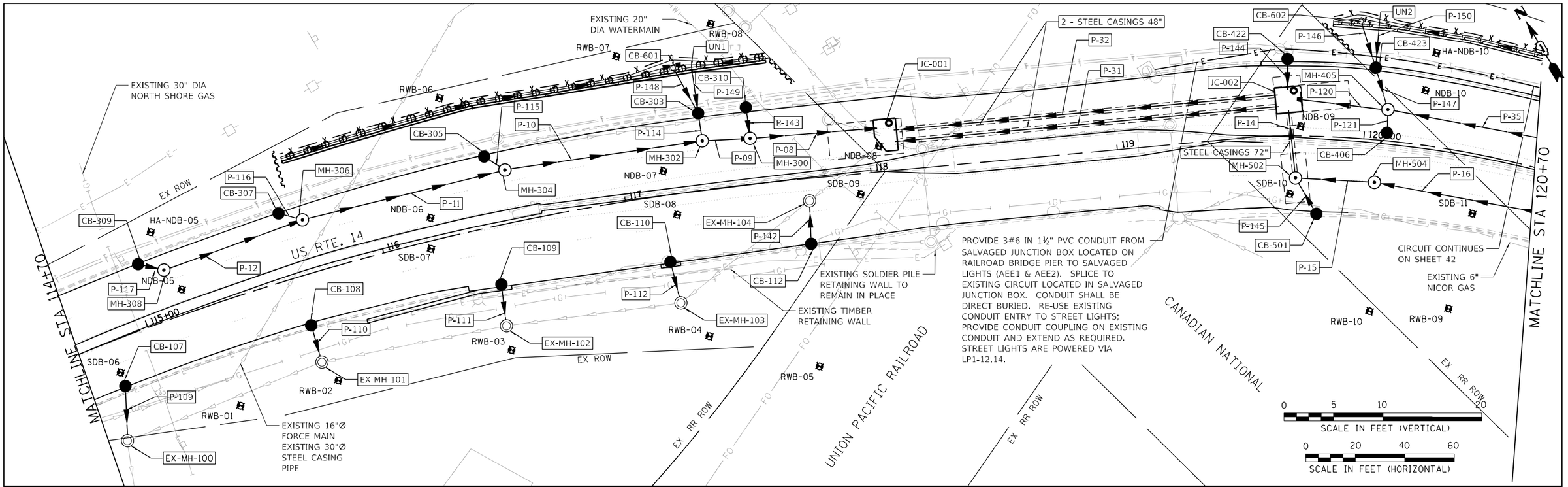
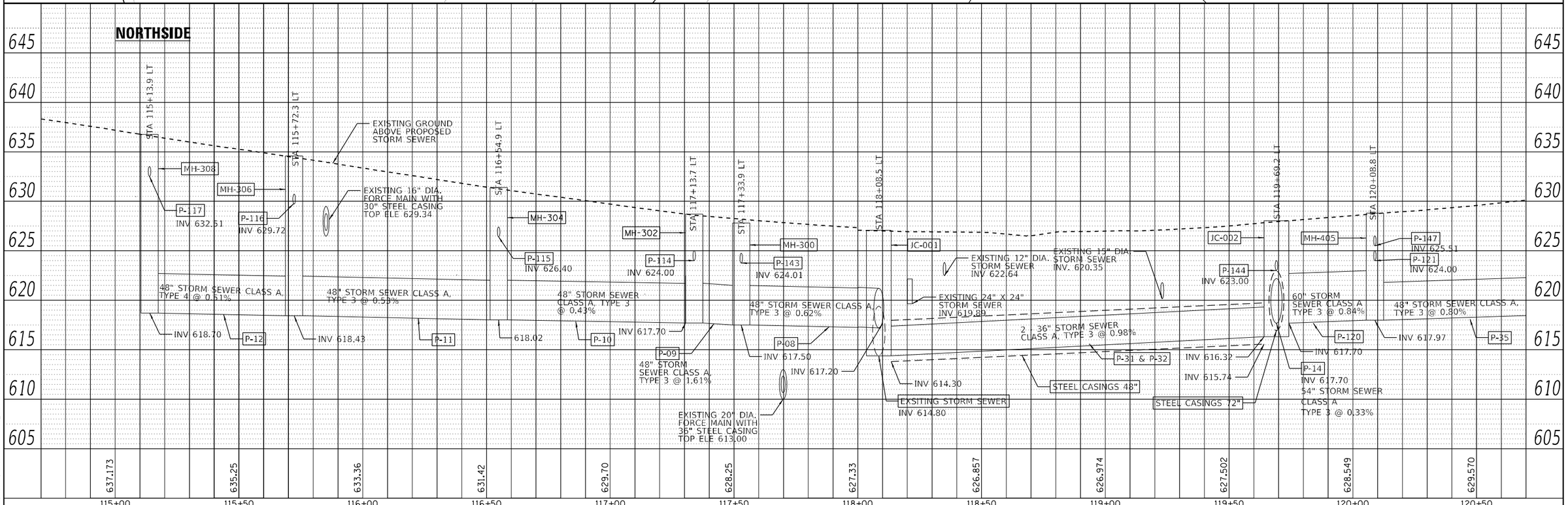
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		





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Accurate GROUP, INC.

USER NAME = dwojcik	DESIGNED - JJD	REVISED -	
	DRAWN - JJD	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -	
PLOT DATE = 1/28/2022	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	40
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKQ(134)			

EXISTING 20" DIA WATERMAIN

EXISTING 30" DIA NORTH SHORE GAS

EX ROW

US RTE. 14

MATCHLINE STA 114+70

MATCHLINE STA 120+70

RWB-01 RWB-02 RWB-03 RWB-04 RWB-05 RWB-06 RWB-07 RWB-08 RWB-09 RWB-10

NDB-05 NDB-06 NDB-07 NDB-08 NDB-09 NDB-10

SDB-06 SDB-07 SDB-08 SDB-09 SDB-10 SDB-11

HA-NDB-05 HA-NDB-10

CB-107 CB-108 CB-109 CB-110 CB-112 CB-303 CB-305 CB-307 CB-309 CB-310 CB-406 CB-422 CB-423 CB-501 CB-601 CB-602

MH-300 MH-302 MH-304 MH-306 MH-308 MH-405 MH-502 MH-504

JC-001 JC-002

UN1 UN2

P-08 P-09 P-10 P-11 P-12 P-14 P-15 P-16 P-31 P-32 P-35 P-109 P-110 P-111 P-112 P-114 P-115 P-116 P-117 P-120 P-121 P-142 P-143 P-144 P-145 P-146 P-147 P-148 P-149 P-150

EX-MH-100 EX-MH-101 EX-MH-102 EX-MH-103 EX-MH-104 EX-MH-104 EX-MH-105

2 - STEEL CASINGS 48"

STEEL CASINGS 72"

EXISTING SOLDIER PILE RETAINING WALL TO REMAIN IN PLACE

EXISTING TIMBER RETAINING WALL

EXISTING 16"Ø FORCE MAIN
EXISTING 30"Ø STEEL CASING PIPE

EXISTING 6" NICOR GAS

UNION PACIFIC RAILROAD

CANADIAN NATIONAL

EX RR ROW

NOTE: CONTRACTOR SHALL PROVIDE NECESSARY EQUIPMENT TO SUPPORT ROADWAY LIGHTING CONCRETE ENCASED DUCT BANK DURING CATCH BASIN INSTALLATION. CIRCUIT POWERED VIA LP1-12,14.

SCALE IN FEET (VERTICAL)

SCALE IN FEET (HORIZONTAL)

SOUTHSIDE

EXISTING GROUND ABOVE PROPOSED STORM SEWER

STA 114+75.5 RT
STA 115+63.3 RT
STA 117+16.3 RT
STA 117+74.2 RT
STA 117+74.2 RT
STA 119+72.4 RT
STA 120+05.9 RT

EX-MH-100 EX-MH-101 EX-MH-102 EX-MH-103 EX-MH-104

P-109 INV 631.20
P-110 INV 625.30
P-111 INV 625.75
P-112 INV 623.75
P-142 INV 624.38
P-145 INV 623.80
P-14 INV 617.78

INV 614.15
INV 614.32
INV 614.47
INV 614.61
EXSITING STORM SEWER INV 614.74

EX 60" STORM SEWER
EX 60" STORM SEWER
EX 60" STORM SEWER
EX 48" STORM SEWER

STEEL CASINGS 72"

54" STORM SEWER CLASS A TYPE 3 @ 0.33%

48" STORM SEWER CLASS A, TYPE 3 @ 0.61%

48" STORM SEWER CLASS A, TYPE 3 @ 0.60%

INV 617.93

645 640 635 630 625 620 615 610 605

644.647 641.286 639.155 637.368 631.783 627.960 626.68 626.76 627.36 628.30 629.51

115+00 115+50 116+00 116+50 117+00 117+50 118+00 118+50 119+00 119+50 120+00 120+50

Accurate GROUP, INC.	USER NAME = dwojcik	DESIGNED - JJD	REVISED -
		DRAWN - JJD	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -
	PLOT DATE = 1/28/2022	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

SCALE: | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	41
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKQ(134)			

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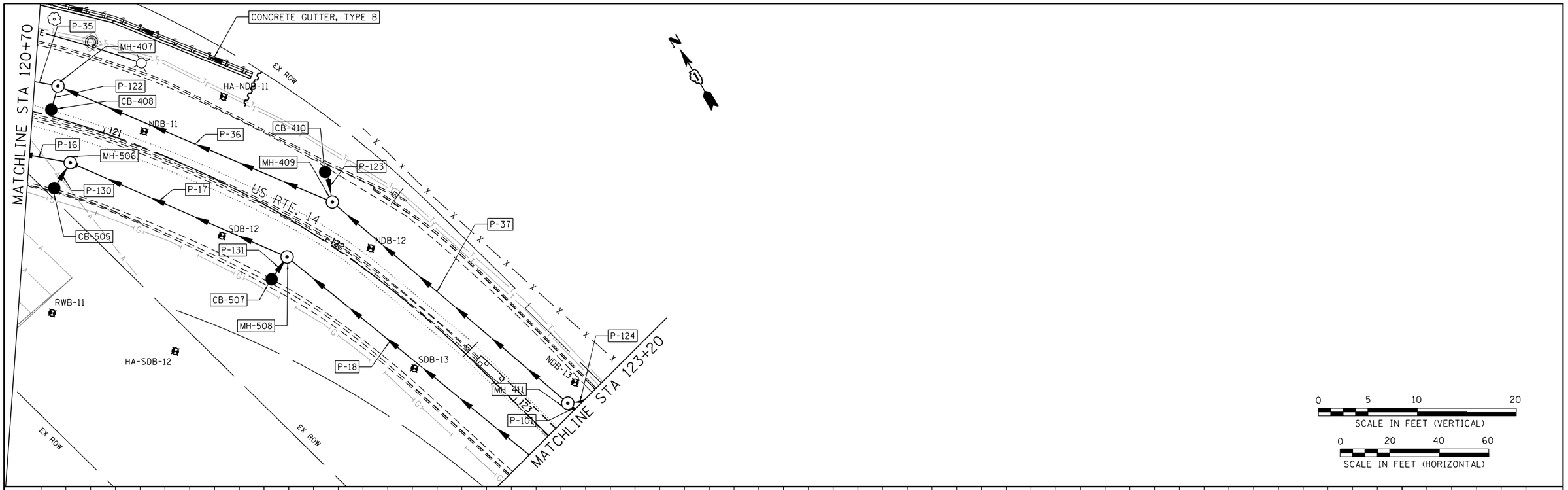

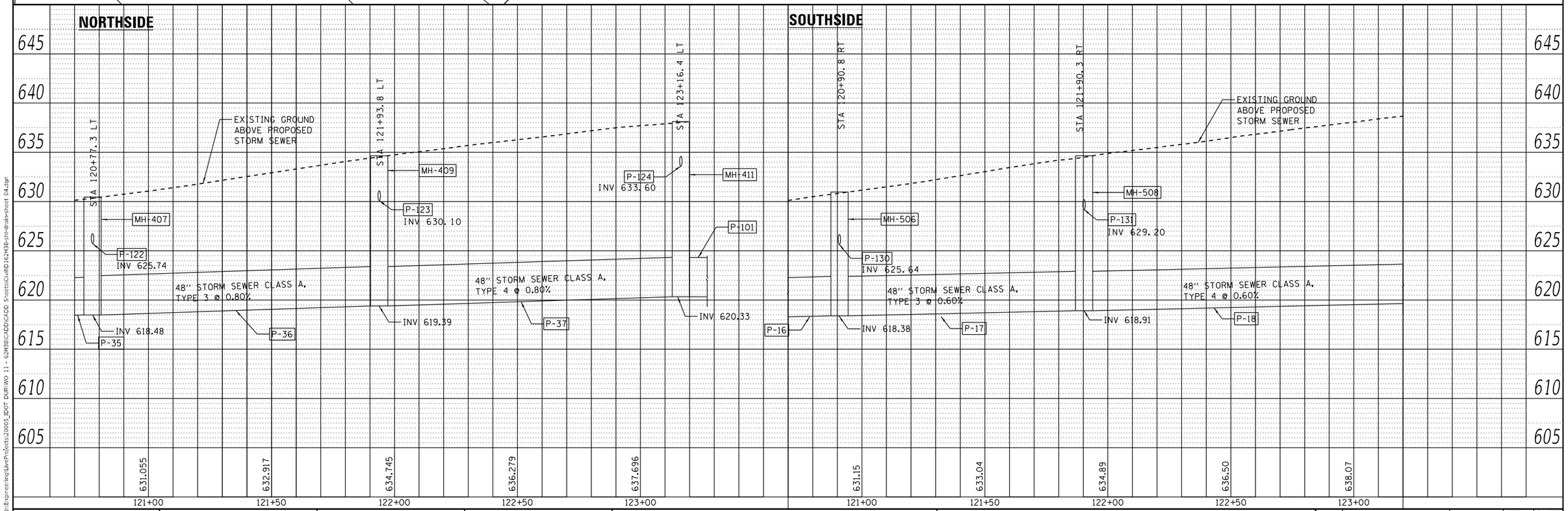

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Accurate GROUP, INC.

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	DRAWN - JJD	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -	
PLOT DATE = 1/26/2022	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

SCALE: | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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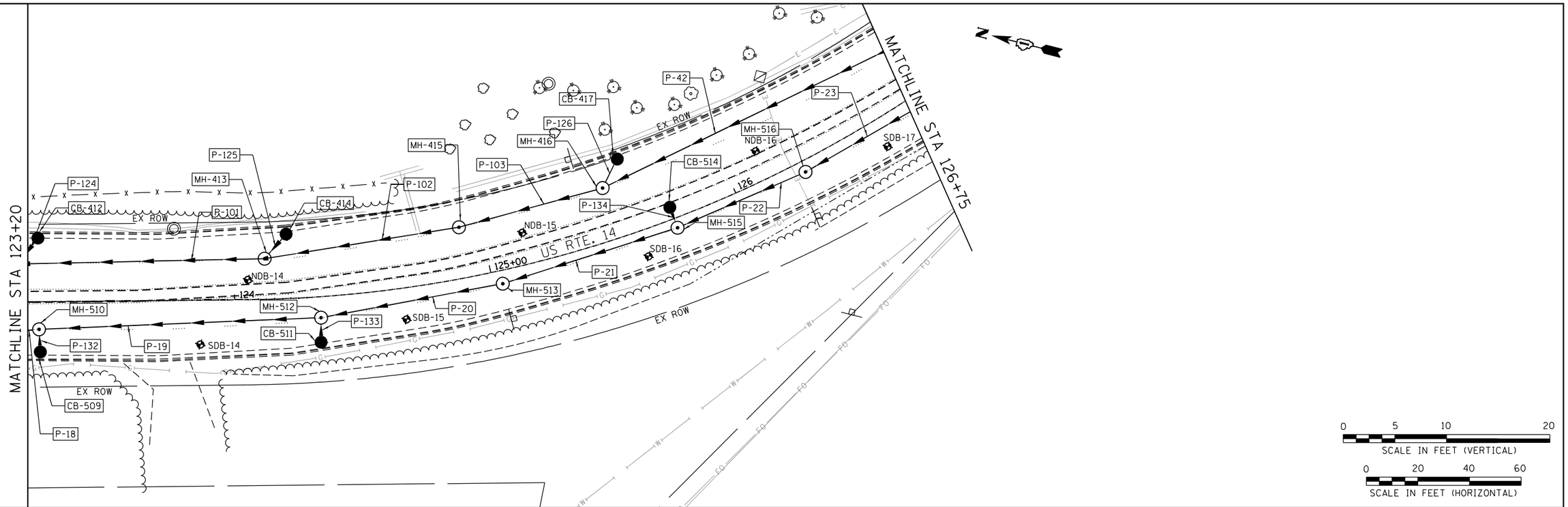
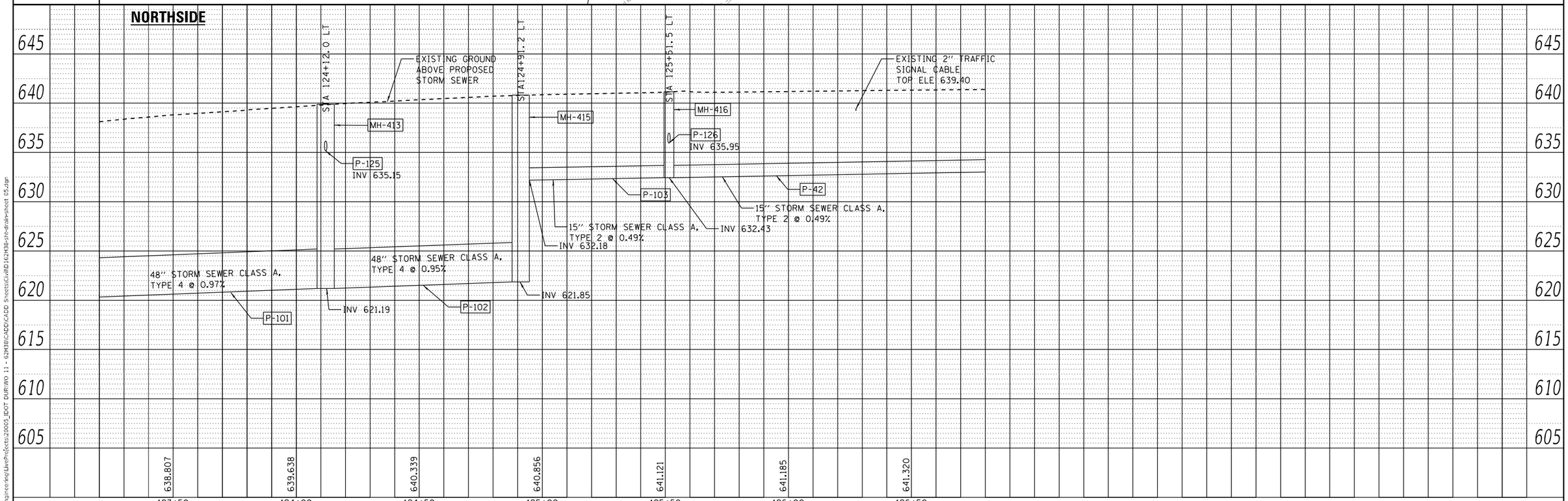
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		





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Accurate GROUP, INC.

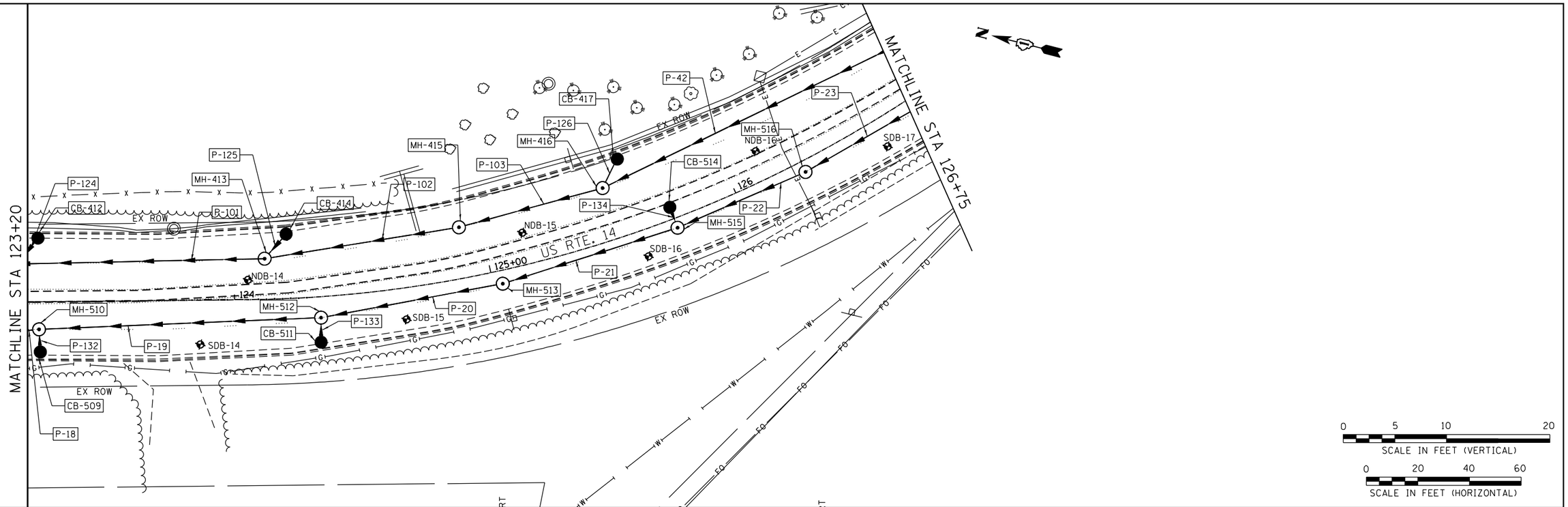
USER NAME = jdavis	DESIGNED - JJD	REVISED -
	DRAWN - JJD	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

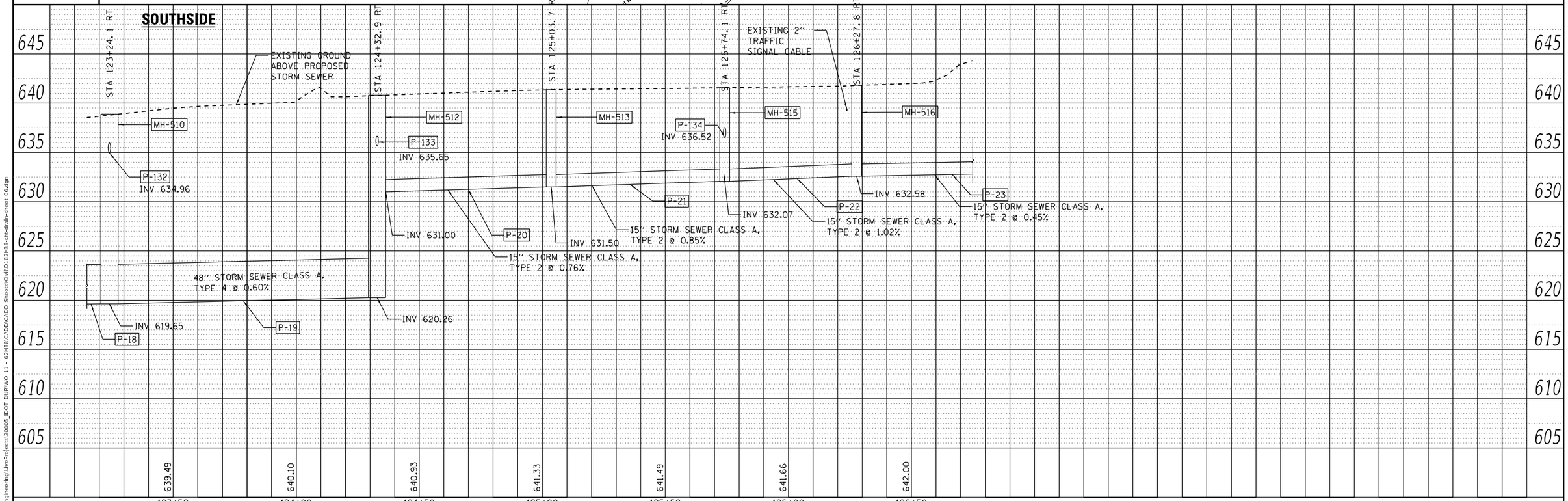
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

SCALE: | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	43
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			





Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -
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	PLOT DATE = 1/26/2022	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
US ROUTE 14

SCALE: | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	44
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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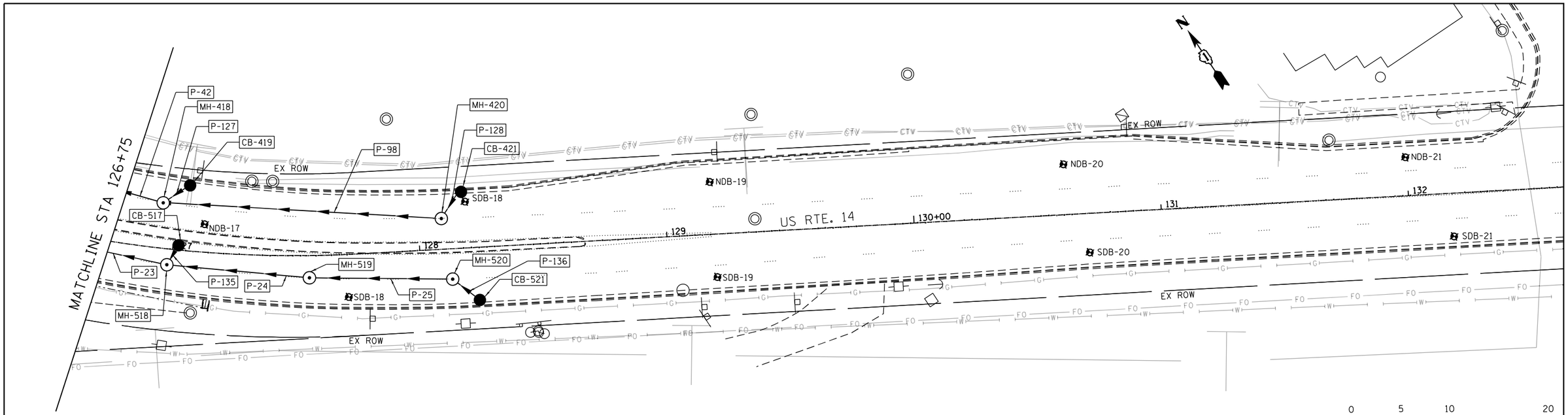

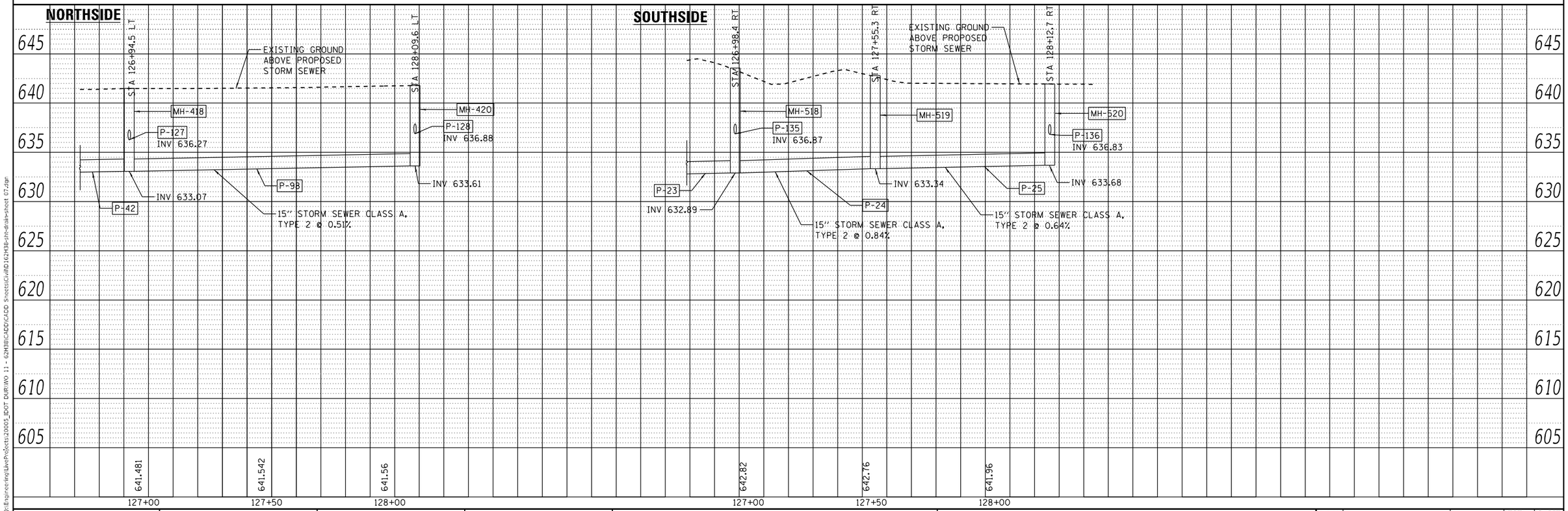

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Accurate GROUP, INC.

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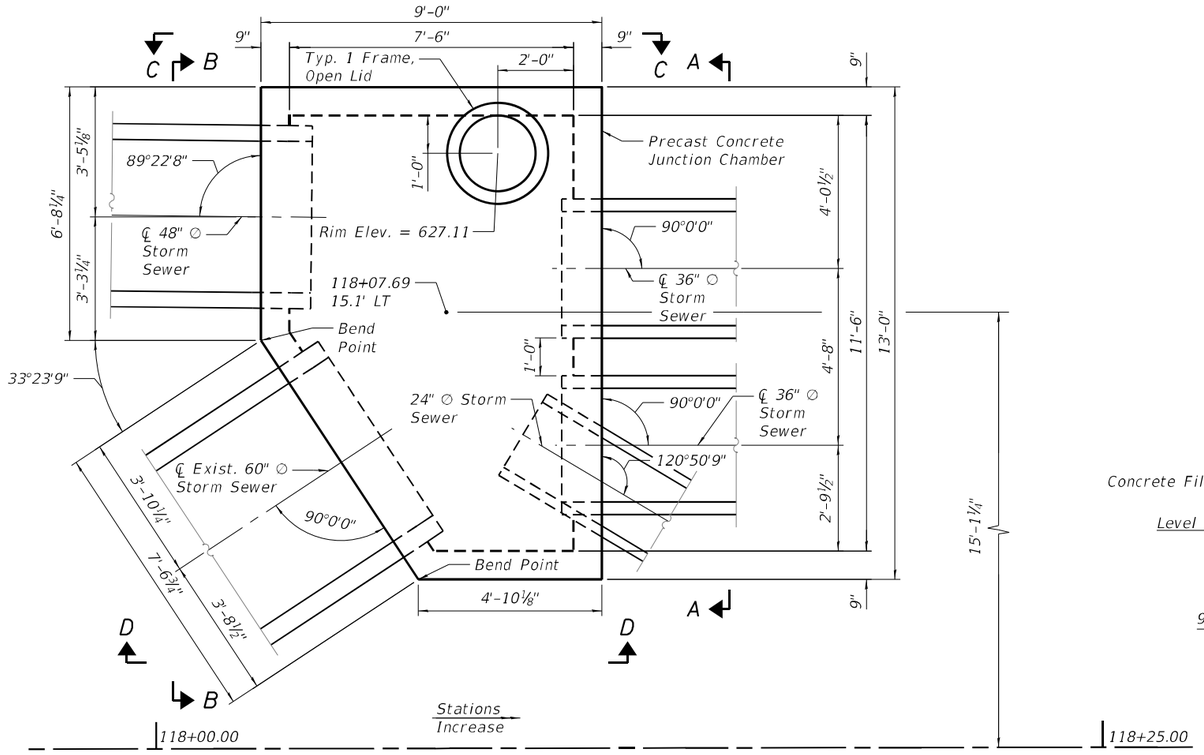
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

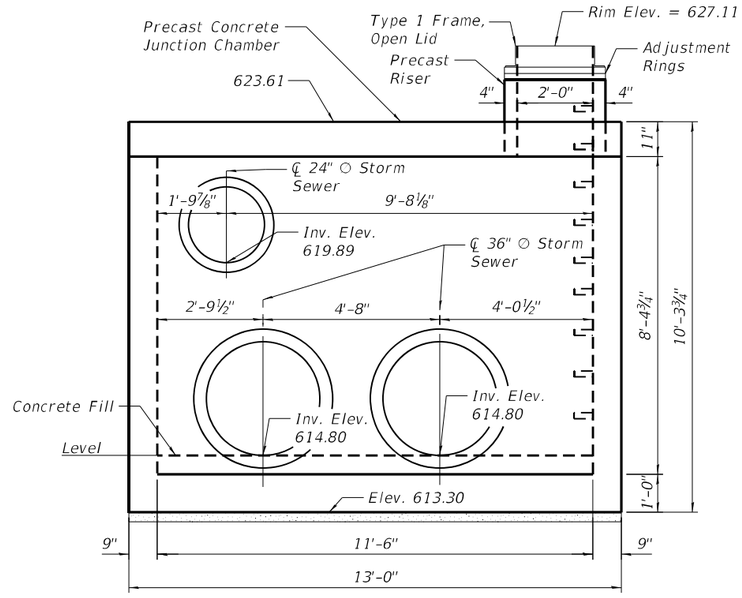
DRAINAGE PLAN AND PROFILE
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	45
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	



PLAN VIEW



ELEVATION A-A

BILL OF MATERIAL

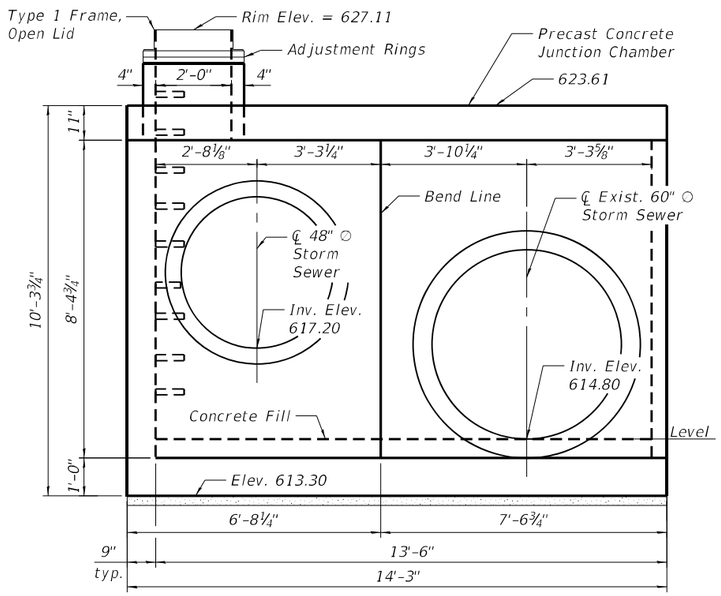
ITEM	UNIT	QUANTITY
Precast Concrete Junction Chamber	Each	1

LEGEND

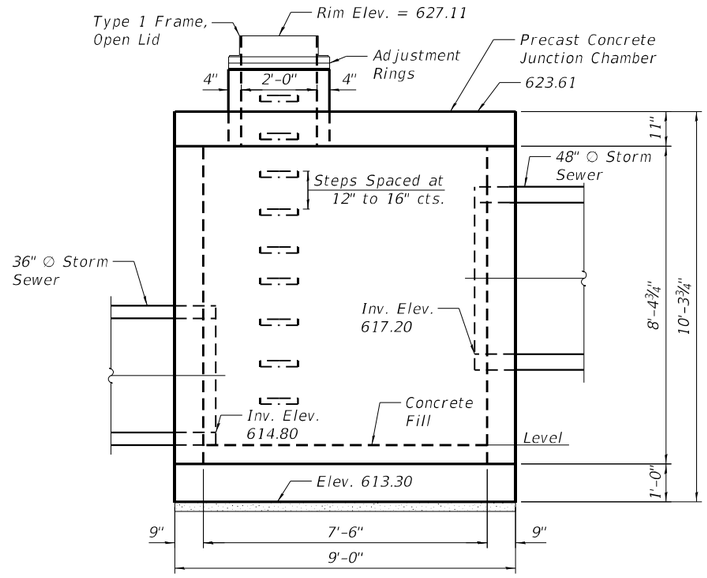
3" Sand Cushion

NOTES:

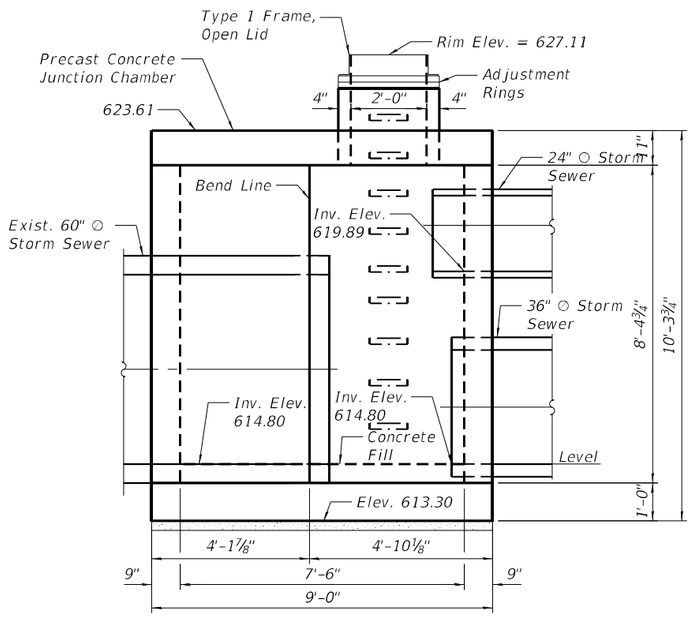
1. See Sheet 45B for Notes.



DEVELOPED ELEVATION B-B



ELEVATION C-C



ELEVATION D-D

Accurate GROUP, INC.	USER NAME = $USER$	DESIGNED - IH	REVISED
		CHECKED - MAF	REVISED
	PLOT SCALE = $SCALE$	DRAWN - IH	REVISED
	PLOT DATE = 1/28/2022	CHECKED - MAF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
JUNCTION CHAMBER – STRUCTURE NUMBER JC-001
SHEET NO. 01 OF 02 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	45A
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT		

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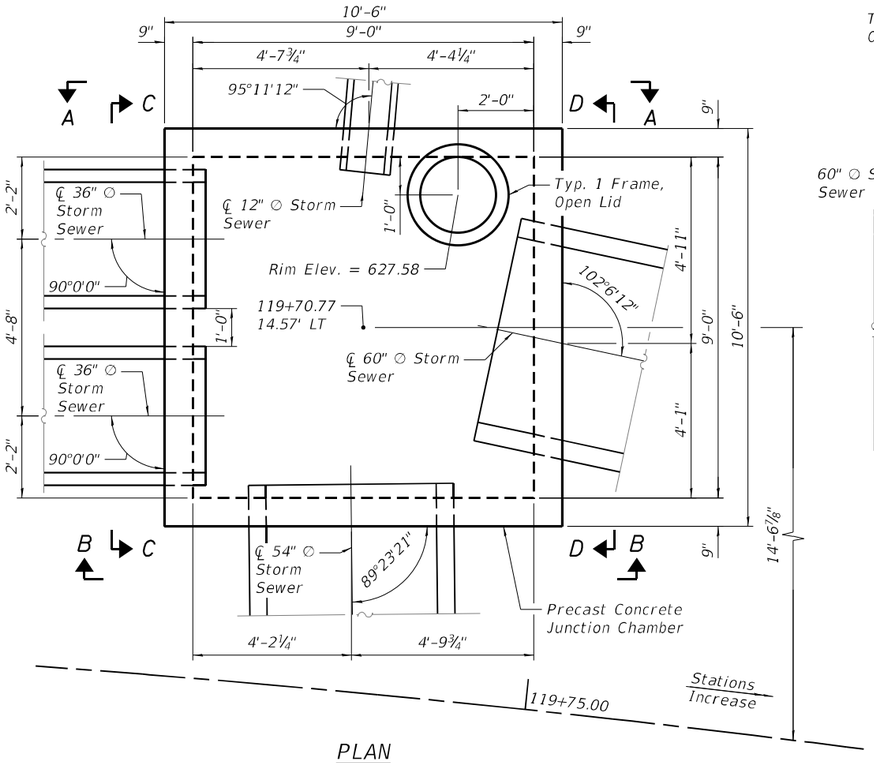
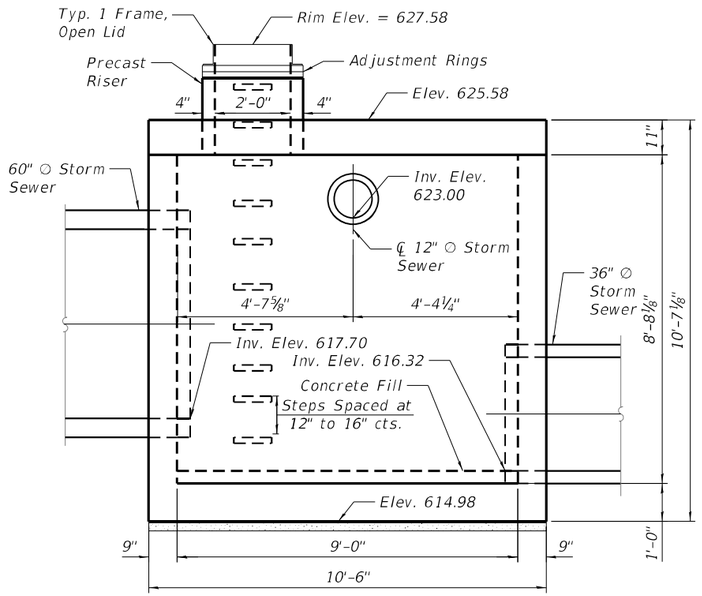
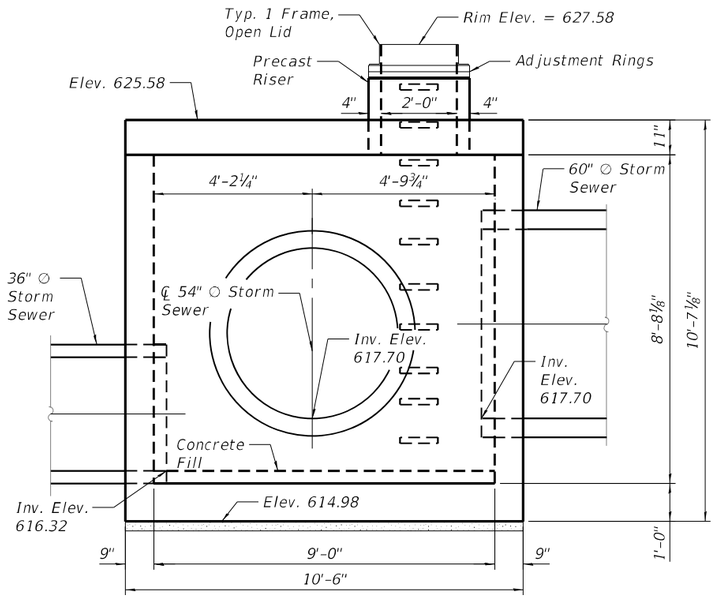


PLAN



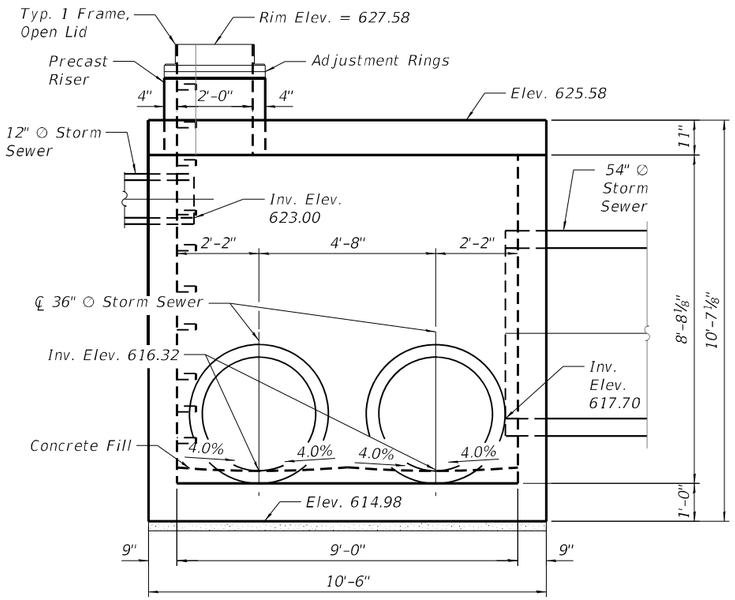
ELEVATION A-A



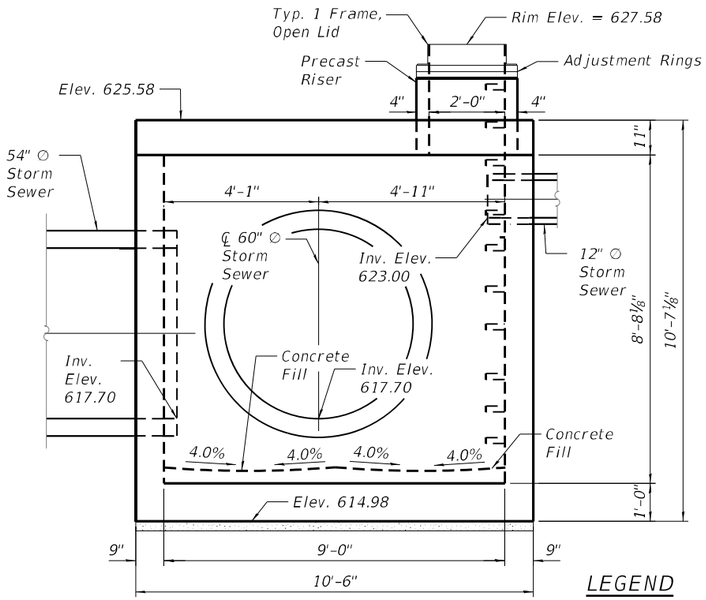
ELEVATION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Concrete Junction Chamber	Each	1



ELEVATION C-C



ELEVATION D-D

LEGEND

3" Sand Cushion

NOTES:

1. Precast Concrete Junction Chamber shall be constructed in accordance with the Special Provisions "Precast Concrete Junction Chamber" and the Standard Specifications.
2. Appropriate sizing and locations of lifting inserts shall be the responsibility of the Contractor to assure balanced handling during installation.
3. The Contractor is to patch all lifting insert holes and place a minimum of 1" cover over the hardware of these devices on both top and bottom surfaces.
4. Precast Concrete Junction Chamber shall be precast with no joints.
5. See Highway Standards 602701-02 and 604001-05 for additional information and requirements on chamber steps and Type 1 Frame & Lid.
6. All Inverts, Elevations, Pipe Locations, and Pipe Openings shall be field verified by the Contractor prior to ordering materials and construction. This work will not be paid for separately, but shall be included within the Contract Unit Price for Precast Concrete Junction Chamber.
7. Rim Elevation is provided at the center of the proposed Frame and Lid. Station and Offset are provided at the center of the structure.
8. Cost of 3" Sand Cushion is included in Precast Concrete Junction Chamber.
9. Concrete pipe sizes and orientation shall be coordinated with openings to be provided into the Junction Chamber prior to pouring concrete, to ensure proper fitting.
10. All components of Junction Chamber shall be fully installed, including top slab, prior to any soil backfilling operations.

FILE NAME = G:\Engineering\LiveProjects\20005.1007 DUR\V0 11 - 62H38\CADD\CADD Sheets\Structural\D162H38-BRX-Drainage Details 11.dgn

Accurate GROUP, INC.

USER NAME = $USER$	DESIGNED - IH	REVISED
	CHECKED - MAF	REVISED
PLOT SCALE = $SCALE$	DRAWN - IH	REVISED
PLOT DATE = 1/28/2022	CHECKED - MAF	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
JUNCTION CHAMBER – STRUCTURE NUMBER JC-002
SHEET NO. 02 OF 02 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	45B
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	DESCRIPTION	STATION	OFFSET	INVERT EL.	RIM EL.
EX-MH-100	———	114+75.45	39.69' RT	614.15 (E) 614.10 (SW)	644.00
EX-MH-101	———	115+63.35	35.65' RT	614.32	640.20
EX-MH-102	———	116+42.18	40.29' RT	614.47	638.15
EX-MH-103	———	117+16.26	43.88' RT	614.61	636.20
MH-104	———	117+74.20	9.00' RT	614.74	627.69
CB-107	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	114+83	18.84' RT	632.44	636.94
CB-108	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	115+64	20.16' RT	629.24	633.74
CB-109	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	116+44	23.55' RT	626.21	630.73
CB-110	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	117+14	26.91' RT	623.95	628.45
EX-MH-200	———	114+50	20.76' RT	630.57	639.12
CB-112	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	117+73	26.38' RT	624.50	627.50

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	DESCRIPTION	STATION	OFFSET	INVERT EL	RIM EL
MH-201	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	114+13	17.77' LT	631.95	640.46
CB-202	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	114+07	24.57' LT	637.00	639.90
MH-203	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	113+21	16.92' LT	637.11	641.96
CB-204	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	113+12	21.00' LT	637.45	641.95
MH-205	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	111+73	17.10' LT	637.85	643.33
CB-206	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	111+61	21.58' LT	638.62	643.10
MH-207	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	110+19	15.25' LT	639.07	643.80
CB-208	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	110+06	18.54' LT	639.19	643.69

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	DESCRIPTION	STATION	OFFSET	INVERT EL	RIM EL
MH-300	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	117+53	18.46' LT	617.50	627.90
MH-302	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	117+34	19.80' LT	617.70	628.30
CB-303	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	117+33	37.04' LT	624.11	627.98
MH-304	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	116+55	21.39' LT	618.02	630.82
CB-305	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	116+48	28.43' LT	626.44	630.94
MH-306	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	115+72	21.70' LT	618.43	634.03
CB-307	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	115+63	26.93' LT	629.76	634.26
MH-308	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	115+14	19.64' LT	618.70	636.41
CB-309	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	115+05	25.42' LT	632.57	636.47
CB-310	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	117+52	31.10' LT	623.64	627.50

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	DESCRIPTION	STATION	OFFSET	INVERT EL	RIM EL
CB-601	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	117+26	50.53' LT	624.53	639.13
CB-602	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	119+96	47.22' LT	625.66	635.08

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	DESCRIPTION	STATION	OFFSET	INVERT EL	RIM EL
MH-405	MANHOLE TYPE A 7' DIA W/TYPE 1 FRAME CL	120+09	12.64' LT	617.97	628.80
CB-406	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	120+09	3.25' LT	624.14	628.64
MH-407	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	120+77	12.58' LT	618.48	630.52
CB-408	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	120+77	2.62' LT	625.87	630.37
MH-409	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	121+93	14.98' LT	619.39	634.85
CB-410	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	121+85	23.78' LT	630.19	634.69
MH-411	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	123+16	14.74' LT	620.33	638.38
CB-412	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	123+24	24.67' LT	633.69	638.19
MH-413	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	124+12	15.73' LT	621.19	640.03
CB-414	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	124+21	24.99 LT	635.23	639.73
MH-415	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	124+91	19.70' LT	621.85	640.85
MH-416	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	125+52	20.38' LT	632.43	641.12
CB-417	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	125+61	29.17' LT	636.03	640.95
MH-418	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	126+95	18.30' LT	633.07	641.49
CB-419	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	127+05	26.45' LT	636.36	641.28
MH-420	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	128+09	12.42' LT	633.61	641.73
CB-421	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	128+18	22.75' LT	636.97	641.48
CB-422	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	119+69	31.08' LT	623.10	630.43
CB-423	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	120+02	29.00' LT	626.64	631.44

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	DESCRIPTION	STATION	OFFSET	INVERT EL	RIM EL
CB-501	CATCH BASIN TYPE D 3' DIA W/ TYPE 1 FRAME OL	119+82	31.31' RT	623.90	627.55
MH-502	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	119+72	16.98' RT	617.78	627.71
MH-504	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	120+06	17.17' RT	617.93	628.36
CB-505	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	120+88	27.36' RT	625.75	630.07
MH-506	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	120+91	15.64' RT	618.38	630.64
CB-507	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	121+90	24.45' RT	629.30	633.64
MH-508	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	121+90	13.54' RT	618.91	634.20
CB-509	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	123+24	19.41' RT	635.00	638.00
MH-510	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	123+24	10.66' RT	619.65	638.42
CB-511	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	124+32	17.61' RT	635.73	640.61
MH-512	MANHOLE TYPE A 7' DIA W/ TYPE 1 FRAME CL	124+33	8.11' RT	620.26	640.65
MH-513	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	125+04	5.15' RT	631.50	641.28
CB-514	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	125+74	4.65' LT	636.58	641.57
MH-515	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	125+74	3.82' RT	632.07	641.52
MH-516	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	126+27	4.34' RT	632.58	642.71
CB-517	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	127+02	1.88' LT	636.94	641.82
MH-518	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	126+98	6.41' RT	632.89	641.87
MH-519	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	127+55	9.00' RT	633.34	642.07
MH-520	MANHOLE TYPE A 4' DIA W/ TYPE 1 FRAME CL	128+13	12.28' RT	633.68	641.95
CB-521	CATCH BASIN TYPE A 4' DIA W/ TYPE 1 FRAME OL	128+23	21.29' RT	636.97	641.94

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Accurate GROUP, INC.

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	DRAWN - JJD	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - JMT	REVISED -	
PLOT DATE = 1/26/2022	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	46
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			

STORM SEWER SCHEDULE

PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
P-109	CB-107	EX-MH-100	CA T2	12	24	1.19%	631.44	631.20	25
P-110	CB-108	EX-MH-101	CA T3	12	20	1.41%	625.49	625.30	29
P-111	CB-109	EX-MH-102	CA T2	12	19	1.08%	625.91	625.75	18
P-112	CB-110	EX-MH-103	CA T2	12	20	1.33%	623.95	623.75	19
P-142	CB-112	EX-MH-104	CA T2	12	12	1.09%	624.50	624.38	1

STORM SEWER SCHEDULE

PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
P-94	MH-203	MH-201	CA T2	12	86	0.90%	637.11	636.34	16
P-118	CB-202	MH-201	CA T2	12	5	1.63%	637.00	636.94	0
P-93	MH-205	MH-203	CA T2	12	141	0.53%	637.85	637.11	57
P-107	CB-204	MH-203	CA T2	12	6	1.13%	637.45	637.40	1
P-92	MH-207	MH-205	CA T2	12	145	0.84%	639.07	637.85	57
P-106	CB-206	MH-205	CA T2	12	9	1.68%	638.62	638.50	2
P-105	CB-208	MH-207	CA T2	12	9	1.62%	639.19	639.07	2
P-13	MH-201	EX-MH-200	CA T2	12	51	2.77%	631.95	630.57	64

STORM SEWER SCHEDULE

	PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
*	P-31	JC-002	JC-001	CA T3	36	156	0.98%	616.32	614.80	0
*	P-32	JC-002	JC-001	CA T3	36	156	0.98%	616.32	614.80	0
	P-120	MH-405	JC-002	CA T3	60	35	0.95%	617.97	617.70	52
	P-121	CB-406	MH-405	CA T2	12	6	3.48%	624.14	624.00	1
	P-35	MH-407	MH-405	CA T3	48	65	0.80%	618.48	617.97	184
	P-122	CB-408	MH-407	CA T2	12	7	2.88%	625.87	625.74	1
	P-36	MH-409	MH-407	CA T3	48	114	0.80%	619.39	618.48	435
	P-123	CB-410	MH-409	CA T2	12	8	1.28%	630.19	630.10	2
	P-37	MH-411	MH-409	CA T4	48	119	0.80%	620.33	619.39	605
	P-124	CB-412	MH-411	CA T2	12	9	1.26%	633.69	633.60	2
	P-101	MH-413	MH-411	CA T4	48	90	0.97%	621.19	620.33	346
	P-125	CB-414	MH-413	CA T2	12	9	1.12%	635.23	635.15	2
	P-102	MH-415	MH-413	CA T4	48	72	0.95%	621.85	621.19	287
	P-103	MH-416	MH-415	CA T2	15	51	0.49%	632.43	632.18	51
	P-126	CB-417	MH-416	CA T2	12	9	1.13%	636.03	635.95	3
	P-42	MH-418	MH-416	CA T2	15	130	0.49%	633.07	632.43	127
	P-127	CB-419	MH-418	CA T2	12	9	1.21%	636.36	636.27	3
	P-98	MH-420	MH-418	CA T2	15	106	0.51%	633.61	633.07	98
	P-128	CB-421	MH-420	CA T2	12	9	1.14%	636.97	636.88	2
	P-144	CB-422	JC-002	CA T2	12	12	0.96%	623.10	623.00	7
	P-147	CB-423	MH-405	CA T2	12	13	1.08%	623.64	623.51	1
	P-150	UN2	CB-423	PIPE UNDERDRAIN	6	15	3.00%	626.66	626.25	10

* - STORM SEWER JACKED IN PLACE, 36" WITH STEEL CASINGS 48"

STORM SEWER SCHEDULE

PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
P-08	MH-300	JC-001	CA T3	48	49	0.62%	617.50	617.20	118
P-09	MH-302	MH-300	CA T3	48	16	1.61%	617.70	617.50	39
P-114	CB-303	MH-302	CA T2	12	7	1.92%	624.11	624.00	1
P-10	MH-304	MH-302	CA T3	48	74	0.43%	618.02	617.70	218
P-115	CB-305	MH-304	CA T2	12	6	0.89%	626.44	626.40	1
P-11	MH-306	MH-304	CA T3	48	78	0.53%	618.43	618.02	312
P-116	CB-307	MH-306	CA T2	12	6	0.89%	629.76	629.72	1
P-12	MH-308	MH-306	CA T4	48	56	0.51%	618.70	618.43	187
P-117	CB-309	MH-308	CA T2	12	6	1.16%	632.57	632.51	3
P-143	CB-310	MH-300	CA T2	12	8	1.79%	623.64	623.51	1
P-149	UN1	CB-303	PIPE	6	17	3.17%	625.53	625.00	14

STORM SEWER SCHEDULE

	PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
**	P-14	MH-502	JC-002	CA T3	54	26	0.33%	617.78	617.70	0
	P-145	CB-501	MH-502	CA T2	12	12	0.85%	623.90	623.80	14
	P-15	MH-504	MH-502	CA T3	48	27	0.60%	617.93	617.78	62
	P-16	MH-506	MH-504	CA T3	48	75	0.61%	618.38	617.93	209
	P-130	CB-505	MH-506	CA T2	12	8	1.73%	625.75	625.64	2
	P-17	MH-508	MH-506	CA T3	48	89	0.60%	618.91	618.38	340
	P-131	CB-507	MH-508	CA T2	12	7	1.78%	629.30	629.20	1
	P-18	MH-510	MH-508	CA T4	48	125	0.60%	619.65	618.91	651
	P-132	CB-509	MH-510	CA T2	12	5	1.23%	635.00	634.96	0
	P-19	MH-512	MH-510	CA T4	48	104	0.60%	620.26	619.65	655
	P-133	CB-511	MH-512	CA T2	12	6	1.87%	635.73	635.65	1
	P-20	MH-513	MH-512	CA T2	15	67	0.76%	631.50	631.00	79
	P-21	MH-515	MH-513	CA T2	15	68	0.85%	632.07	631.50	79
	P-134	CB-514	MH-515	CA T2	12	7	1.33%	636.58	636.52	2
	P-22	MH-516	MH-515	CA T2	15	51	1.02%	632.58	632.07	56
	P-23	MH-518	MH-516	CA T2	15	68	0.45%	632.89	632.58	72
	P-135	CB-517	MH-518	CA T2	12	7	1.35%	636.94	636.87	2
	P-24	MH-519	MH-518	CA T2	15	55	0.84%	633.34	632.89	57
	P-25	MH-520	MH-519	CA T2	15	55	0.64%	633.68	633.34	53
	P-136	CB-521	MH-520	CA T2	12	11	1.40%	636.97	636.83	4

** - STORM SEWER JACKED IN PLACE, 54" WITH STEEL CASINGS 72"

STORM SEWER SCHEDULE

PIPE NO.	FROM STR	TO STR	PIPE TYPE	DIA (IN)	LENGTH (FT)	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	TB (CY)
P-148	CB-601	CB-303	CA T2	12	17	3.13%	624.53	624.00	18
P-146	CB-602	CB-423	CA T2	12	17	2.62%	625.66	625.25	14

FILE NAME = Q:\Engineering\LivePrjcts\20005_IDOT DRAIWG 11 • 62H38\64DD\64DD Sheets\CivilD\62H38-Storm Drain Sched.dgn

Accurate GROUP, INC.

USER NAME = dwojcik	DESIGNED - JJD	REVISED -
	DRAWN - JJD	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 1/28/2022	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

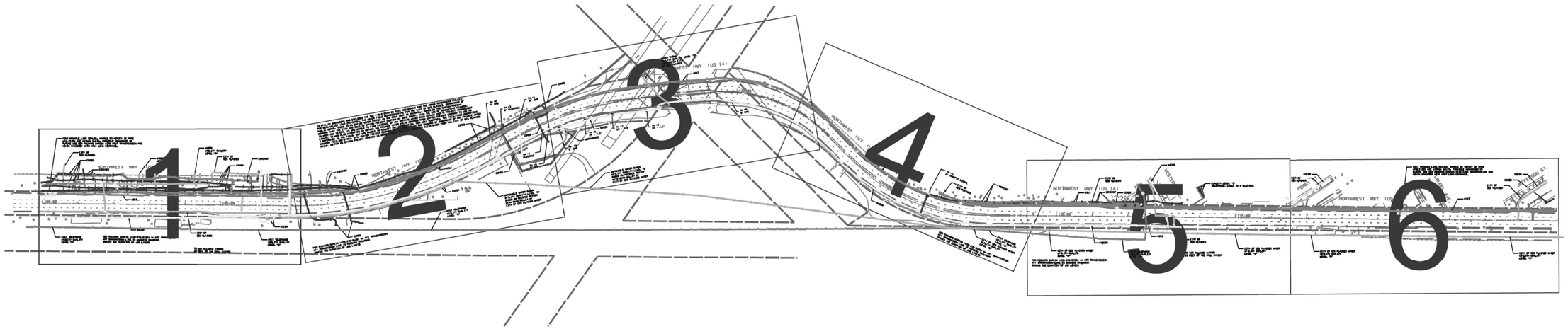
DRAINAGE SCHEDULES
US ROUTE 14

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	47
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKQ(134)			

SUBSURFACE UTILITY INVESTIGATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS



A — A	AERIAL
	UNKNOWN
	TRAFFIC SIGNAL
	SANITARY SEWER
CTV — CTV	CABLE TV
T — T	TELEPHONE
G	GAS
E — E	ELECTRIC
W	WATER
FO — FO	FIBER OPTIC
	T2 TEST HOLE
EOI	END OF INFORMATION

UTILITY OWNERS

GAS - NICOR / NORTHSHORE GAS
ELECTRIC - COMED / CITY OF DES PLAINES
TELEPHONE - AT&T
WATER - CITY OF DES PLAINES
TRAFFIC SIGNAL - CITY OF DES PLAINES
CATV - COMCAST

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LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
9/23/21
date
license expires 11-30-21

T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818, 827
SUE PLAN PAGE: COVER

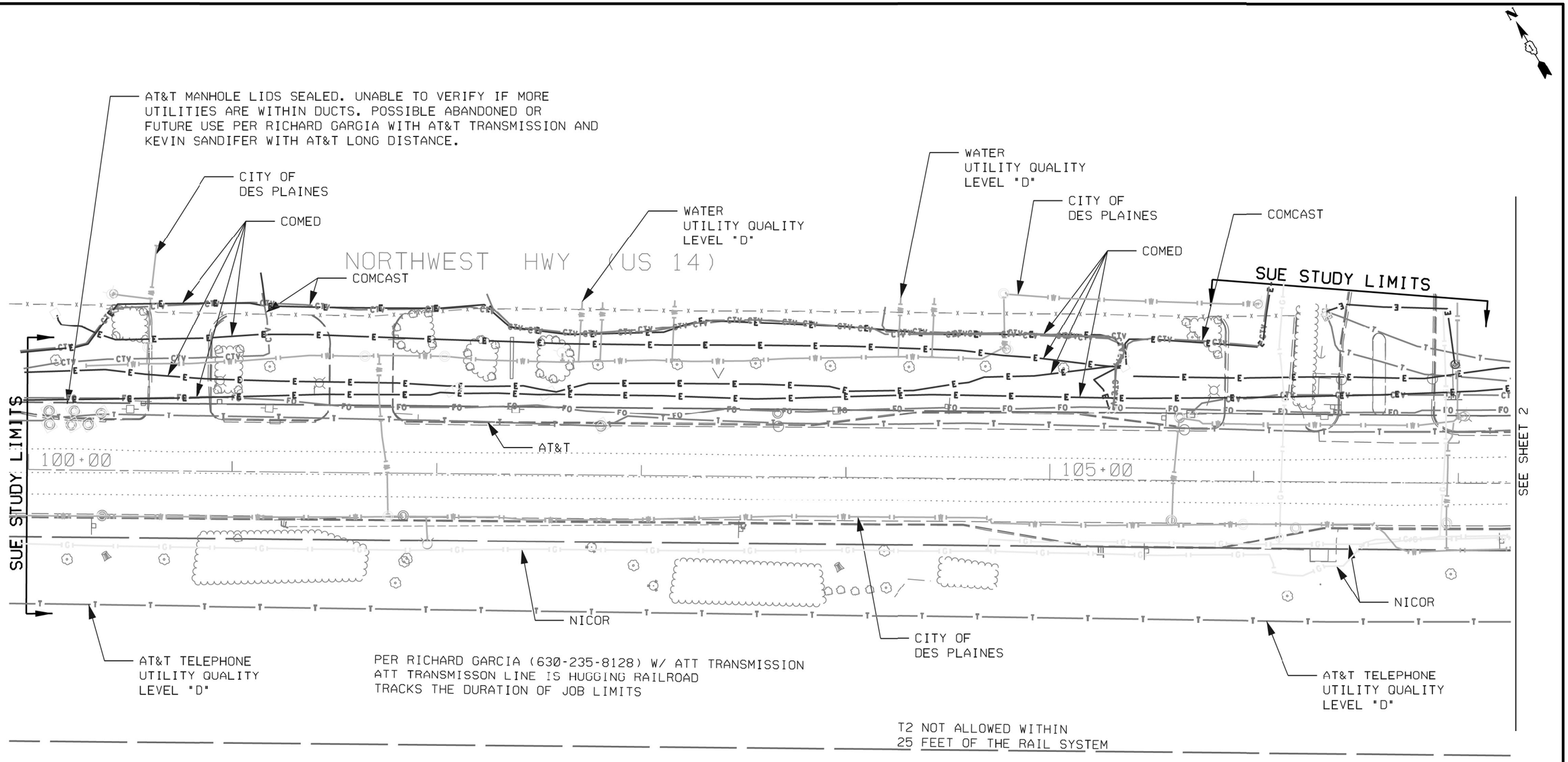
UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING/NON VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

DESIGNED	TC	REV 1: 9/23/21 ADDED TH-2-11
DRAWN	KLC	
CHECKED	KFS	
DATE	7/13/21	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	48
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO. ILLINOIS		IDOT PROJECT NO.		



AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
CABLE TV
TELEPHONE
GAS
ELECTRIC
WATER
FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS

GAS - NICOR / NORTHSHORE GAS
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10 0 METERS 10 20
25 0 FEET 25 50

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license expires 11-30-21

T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818, 827
SUE PLAN PAGE: 1 OF 6

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UTILITY QUALITY LEVEL "D" = RECORDS RESEARCH

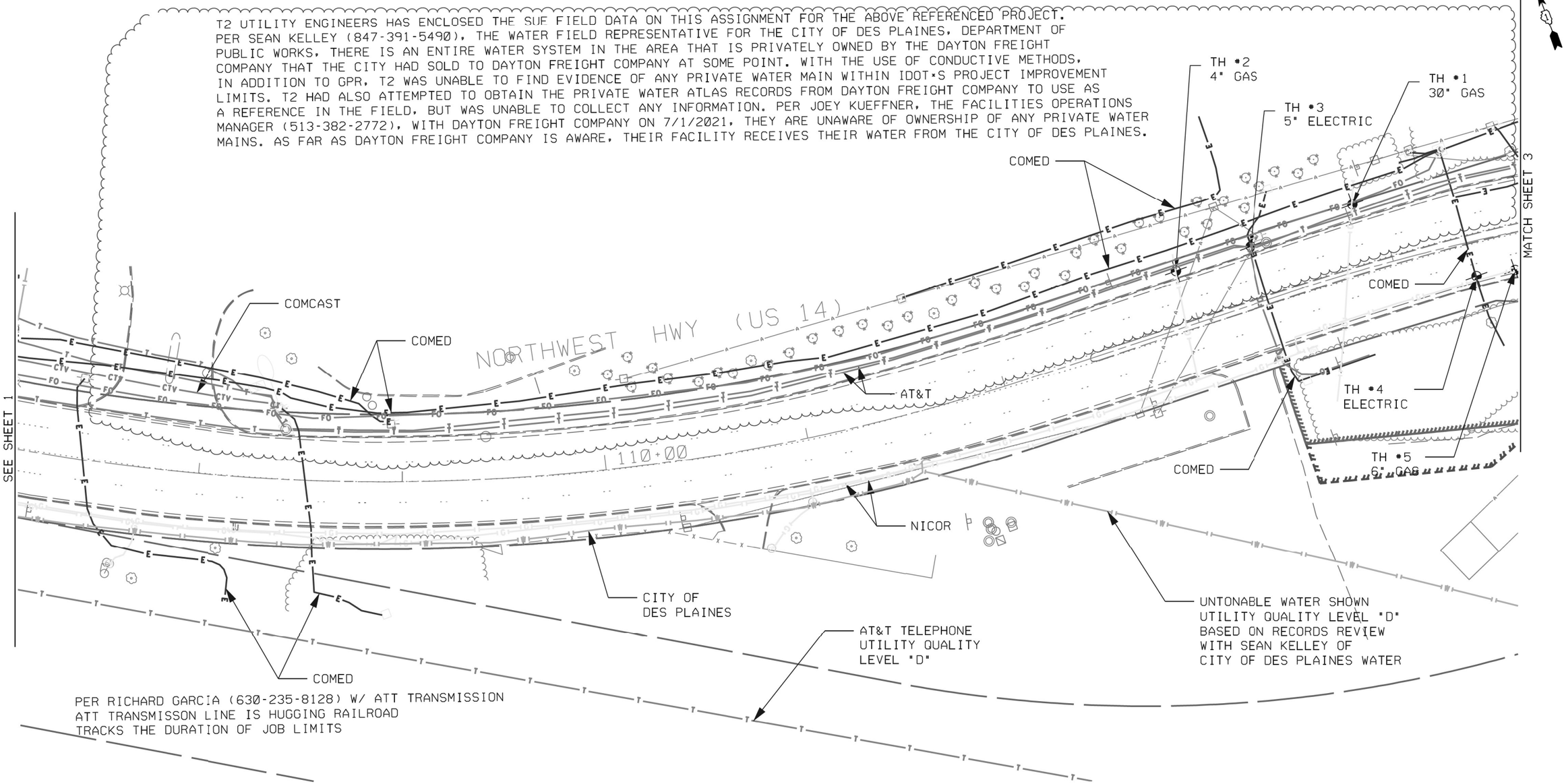
DESIGNED	TC
DRAWN	KLC
CHECKED	KFS
DATE	7/13/21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	49
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO.	ILLINOIS	IDOT PROJECT NO.		

T2 UTILITY ENGINEERS HAS ENCLOSED THE SUE FIELD DATA ON THIS ASSIGNMENT FOR THE ABOVE REFERENCED PROJECT. PER SEAN KELLEY (847-391-5490), THE WATER FIELD REPRESENTATIVE FOR THE CITY OF DES PLAINES, DEPARTMENT OF PUBLIC WORKS, THERE IS AN ENTIRE WATER SYSTEM IN THE AREA THAT IS PRIVATELY OWNED BY THE DAYTON FREIGHT COMPANY THAT THE CITY HAD SOLD TO DAYTON FREIGHT COMPANY AT SOME POINT. WITH THE USE OF CONDUCTIVE METHODS, IN ADDITION TO GPR, T2 WAS UNABLE TO FIND EVIDENCE OF ANY PRIVATE WATER MAIN WITHIN IDOT'S PROJECT IMPROVEMENT LIMITS. T2 HAD ALSO ATTEMPTED TO OBTAIN THE PRIVATE WATER ATLAS RECORDS FROM DAYTON FREIGHT COMPANY TO USE AS A REFERENCE IN THE FIELD, BUT WAS UNABLE TO COLLECT ANY INFORMATION. PER JOEY KUEFFNER, THE FACILITIES OPERATIONS MANAGER (513-382-2772), WITH DAYTON FREIGHT COMPANY ON 7/1/2021, THEY ARE UNAWARE OF OWNERSHIP OF ANY PRIVATE WATER MAINS. AS FAR AS DAYTON FREIGHT COMPANY IS AWARE, THEIR FACILITY RECEIVES THEIR WATER FROM THE CITY OF DES PLAINES.



AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
CABLE TV
TELEPHONE
GAS
ELECTRIC
WATER
FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

UTILITY OWNERS
GAS - NICOR / NORTHSHORE GAS
ELECTRIC - COMED / CITY OF DES PLAINES
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10 0 METERS 10 20
25 0 FEET 25 50

LICENSED PROFESSIONAL ENGINEER
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STATE OF ILLINOIS
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9/23/21
date
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T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818.827
SUE PLAN PAGE: 2 OF 6

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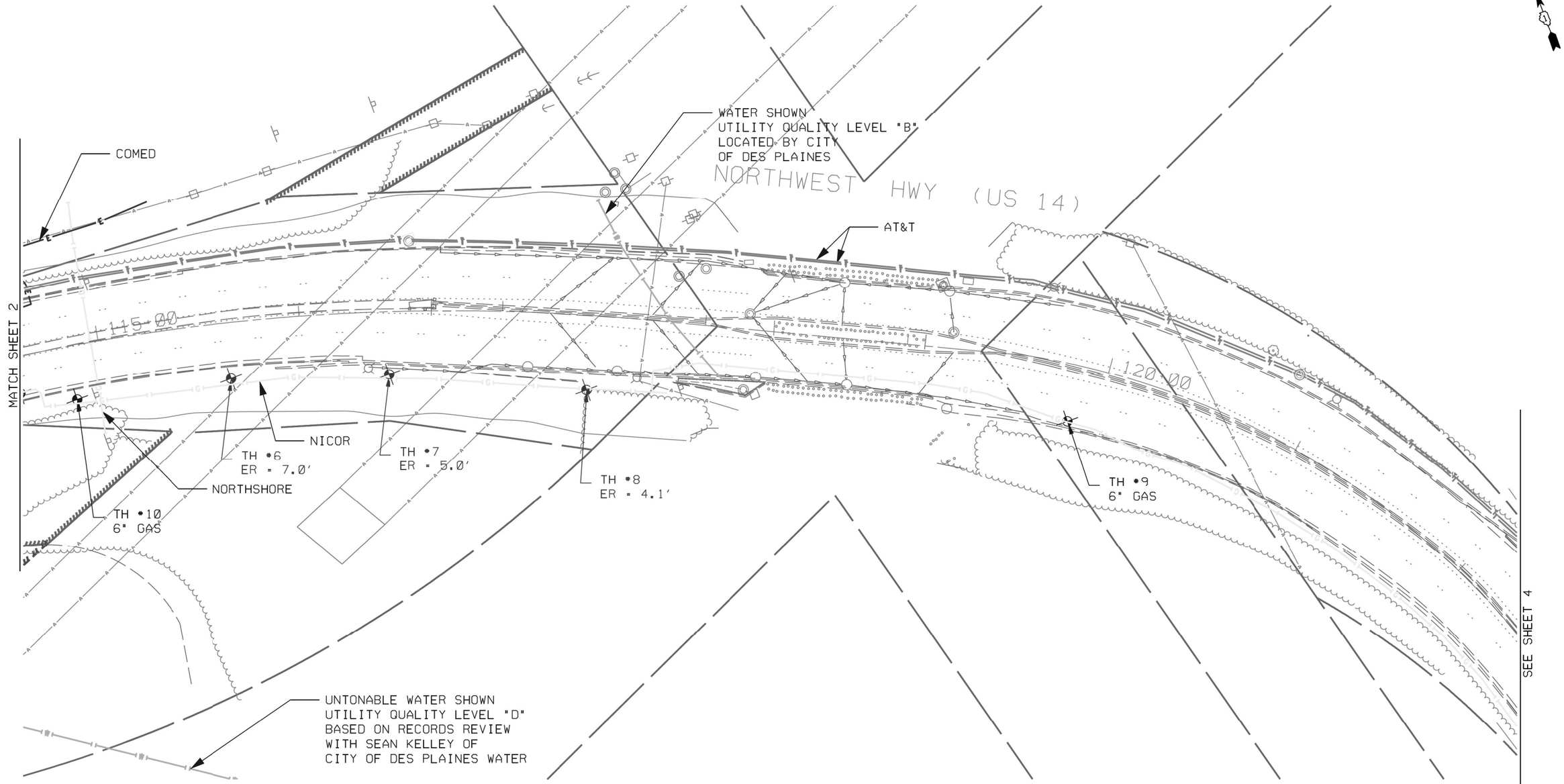
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	50
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO.	ILLINOIS	IDOT PROJECT NO.		



AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
CABLE TV
TELEPHONE
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T2 TEST HOLE
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UTILITY OWNERS

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25 0 FEET 25 50

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T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818, 827
SUE PLAN PAGE: 3 OF 6

DESIGNED	TC	REV 1: 9/23/21 ADDED TH #2-11
DRAWN	KLC	
CHECKED	KFS	
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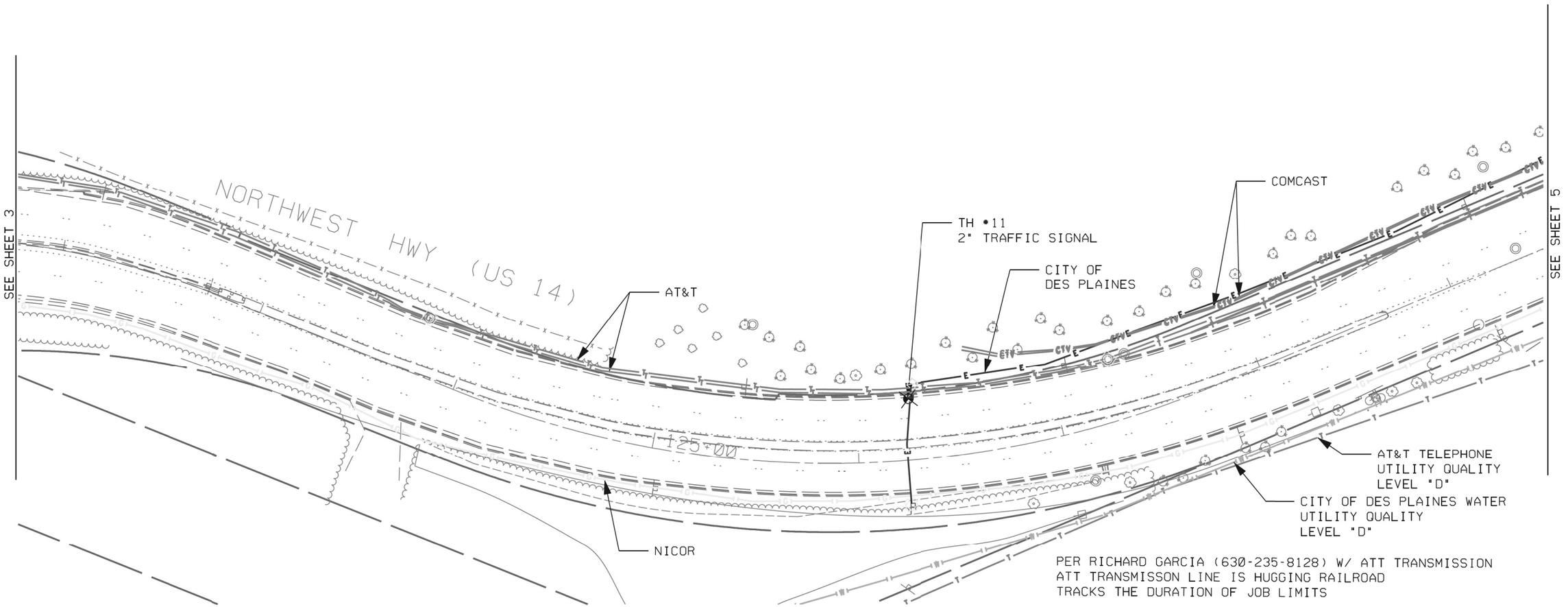
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	51
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO.	ILLINOIS	IDOT PROJECT NO.		



A — A AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
CTV — CTV CABLE TV
T — T TELEPHONE
GAS
E — E ELECTRIC
W WATER
FO — FO FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

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9/23/21
date
license expires 11-30-21

T2 utility engineers

MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818.827
SUE PLAN PAGE: 4 OF 6

UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
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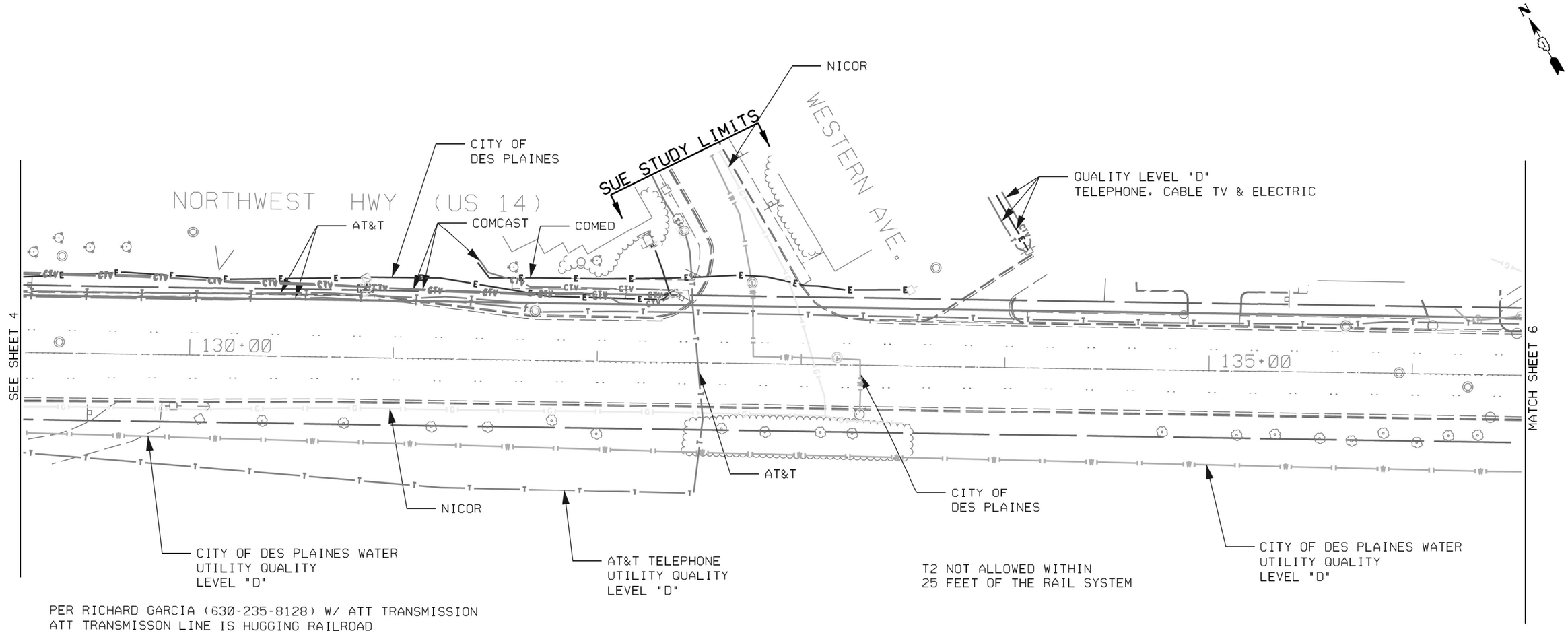
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	52
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO.	ILLINOIS	IDOT PROJECT NO.		



PER RICHARD GARCIA (630-235-8128) W/ ATT TRANSMISSION
ATT TRANSMISSON LINE IS HUGGING RAILROAD
TRACKS THE DURATION OF JOB LIMITS

AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
CABLE TV
TELEPHONE
GAS
ELECTRIC
WATER
FIBER OPTIC
T2 TEST HOLE
EOI END OF INFORMATION

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10 0 METERS 10 20
25 0 FEET 25 50

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T2 utility engineers
MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818, 827
SUE PLAN PAGE: 5 OF 6

UTILITY QUALITY LEVEL "A" = VISUALLY VERIFIED TEST HOLE
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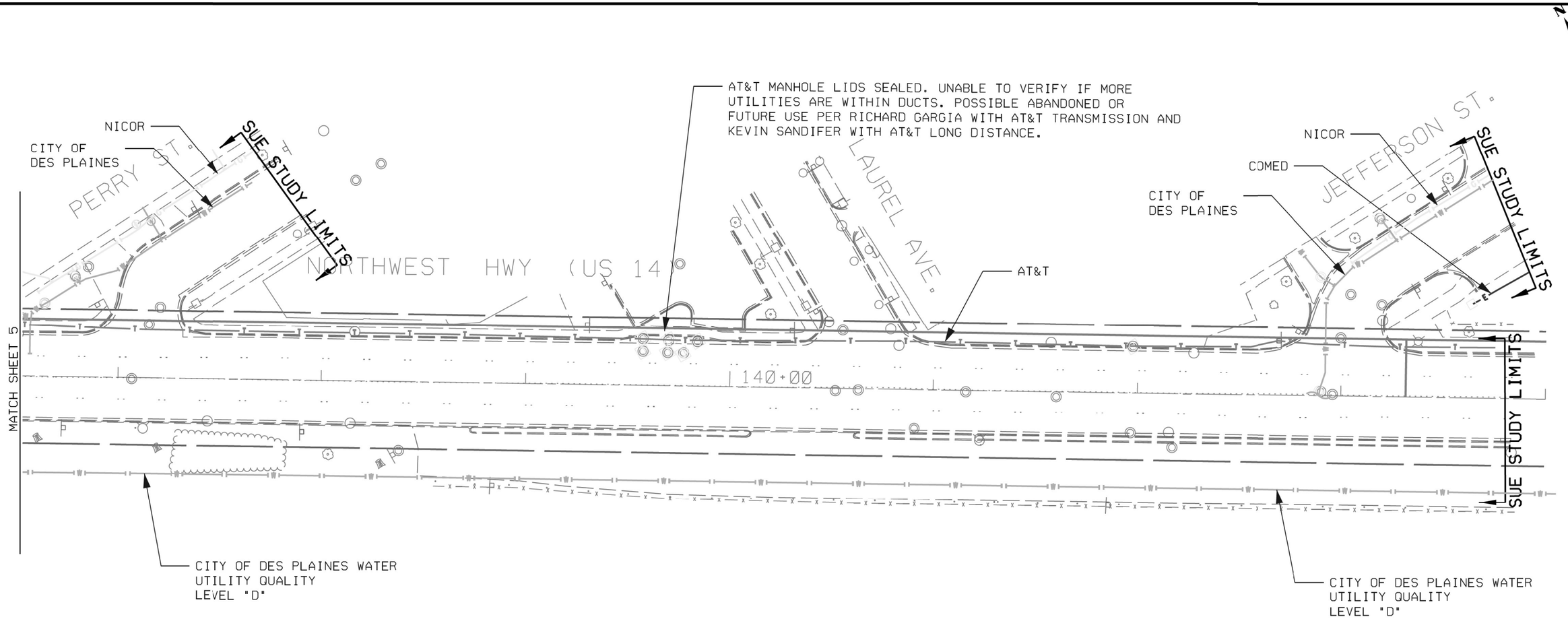
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	53
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO.	ILLINOIS	IDOT PROJECT NO.		



A AERIAL
UNKNOWN
TRAFFIC SIGNAL
SANITARY SEWER
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T T TELEPHONE
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MILLENNIA PROFESSIONAL SERVICES

T2 JOB NO. IL09520818. 827
SUE PLAN PAGE: 6 OF 6

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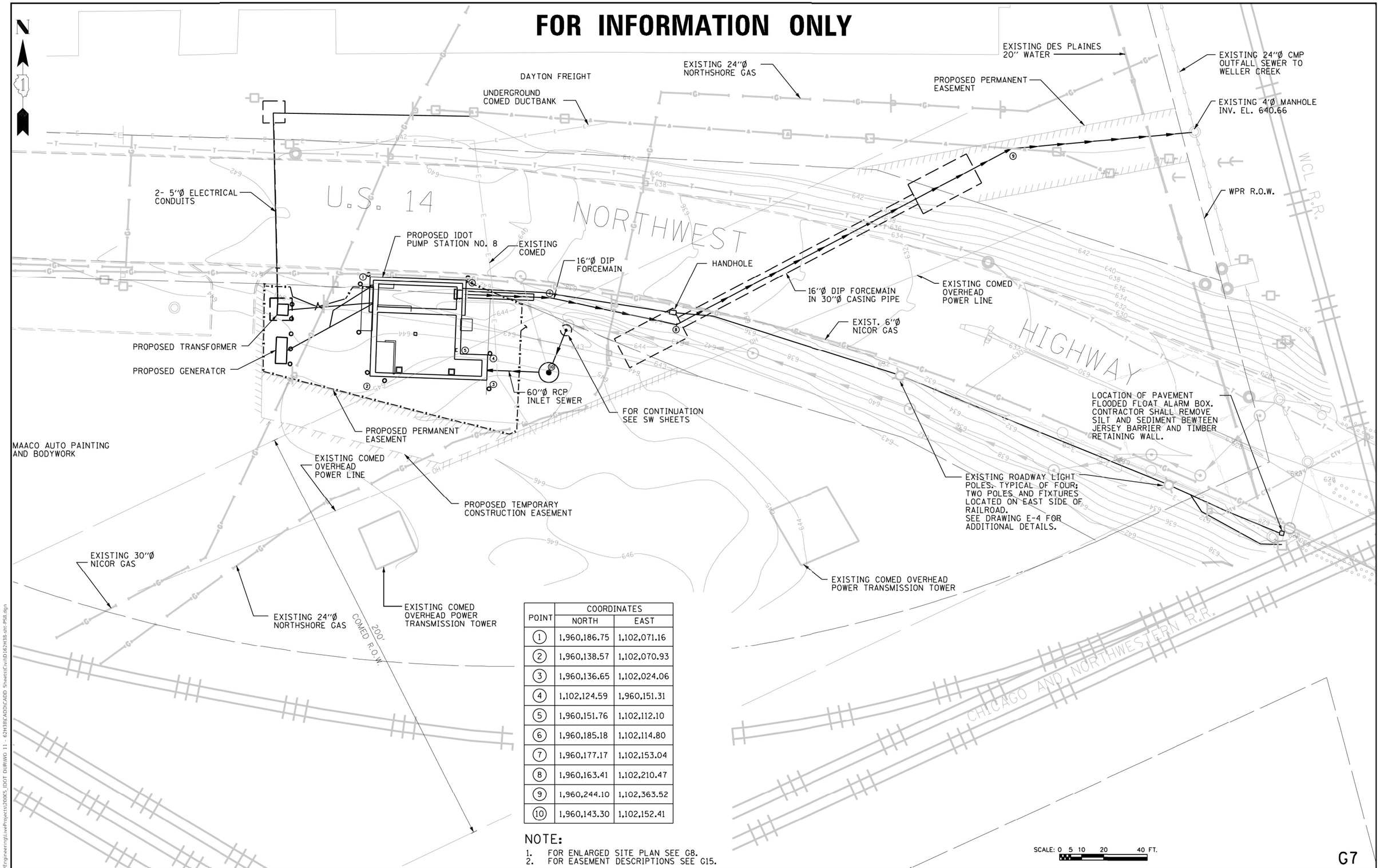
DESIGNED TC
DRAWN KLC
CHECKED KFS
DATE 7/13/21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 AT UNION PACIFIC RAILROAD
& WESTERN CENTRAL RAILROAD CROSSING
DES PLAINES, ILLINOIS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-109-RS,SW&T	COOK	130	54
		CONTRACT NO. 62H38		
FED. ROAD DIST. NO. ILLINOIS		IDOT PROJECT NO.		

FOR INFORMATION ONLY



POINT	COORDINATES	
	NORTH	EAST
1	1,960,186.75	1,102,071.16
2	1,960,138.57	1,102,070.93
3	1,960,136.65	1,102,024.06
4	1,102,124.59	1,960,151.31
5	1,960,151.76	1,102,112.10
6	1,960,185.18	1,102,114.80
7	1,960,177.17	1,102,153.04
8	1,960,163.41	1,102,210.47
9	1,960,244.10	1,102,363.52
10	1,960,143.30	1,102,152.41

NOTE:
1. FOR ENLARGED SITE PLAN SEE G8.
2. FOR EASEMENT DESCRIPTIONS SEE G15.

SCALE: 0 5 10 20 40 FT.

G7

FILE NAME = Q:\Engineering\LiveProjects\2005_IDOT D.I\RWG 11 - 62H38\CADD\CADD Sheets\Cwl\ID16\H38-str-P58.dgn

DONOHUE

USER NAME =	DESIGNED - LRE	REVISED -	
	DRAWN - LRE	REVISED -	
PLOT SCALE =	CHECKED - PMS	REVISED -	
PLOT DATE =	DATE - 09-29-17	REVISED -	

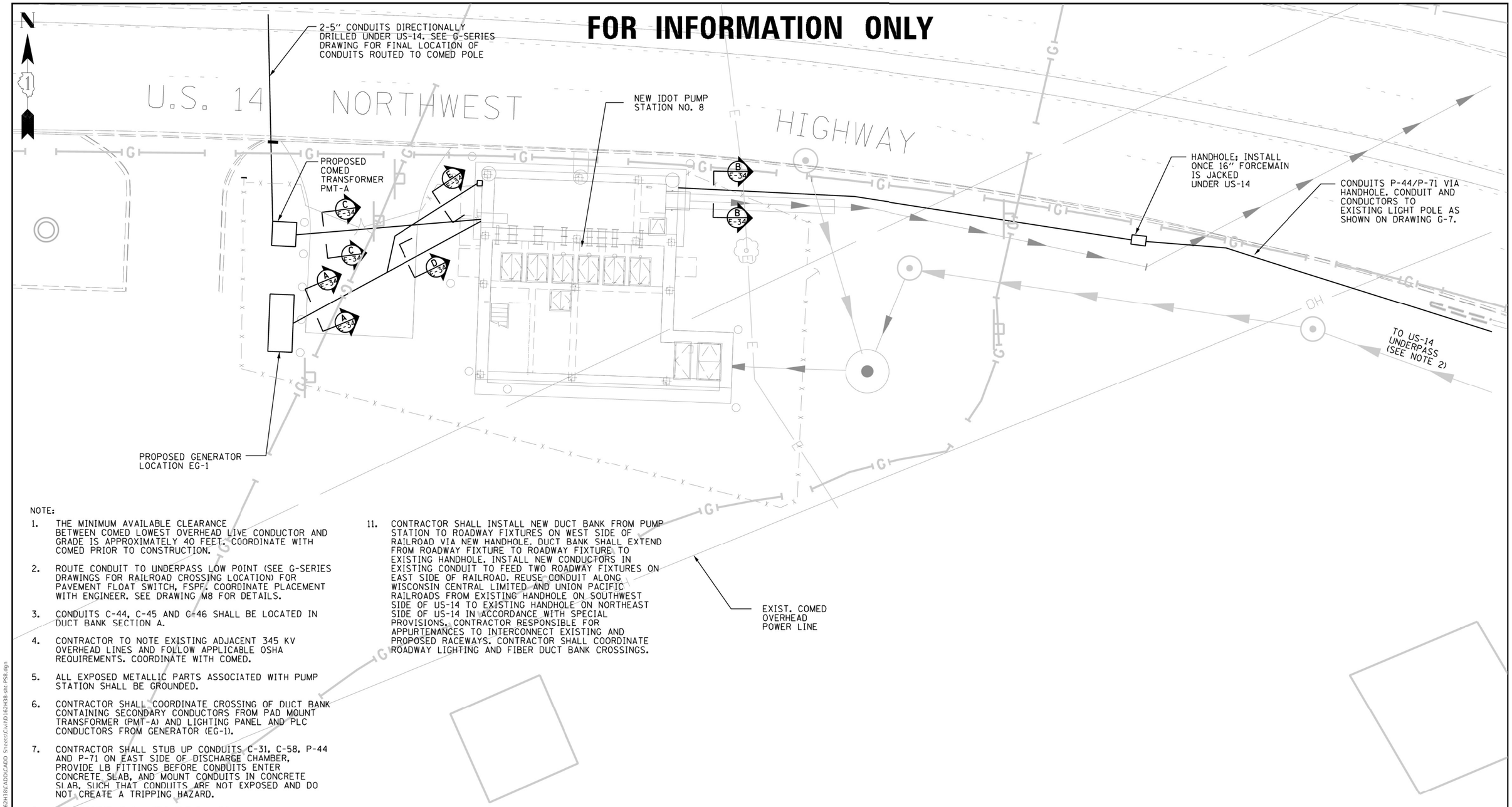
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
PROPOSED SITE PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	54A
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		

FOR INFORMATION ONLY



NOTE:

1. THE MINIMUM AVAILABLE CLEARANCE BETWEEN COMED LOWEST OVERHEAD LIVE CONDUCTOR AND GRADE IS APPROXIMATELY 40 FEET. COORDINATE WITH COMED PRIOR TO CONSTRUCTION.
2. ROUTE CONDUIT TO UNDERPASS LOW POINT (SEE G-SERIES DRAWINGS FOR RAILROAD CROSSING LOCATION) FOR PAVEMENT FLOAT SWITCH, FSPF. COORDINATE PLACEMENT WITH ENGINEER. SEE DRAWING M8 FOR DETAILS.
3. CONDUITS C-44, C-45 AND C-46 SHALL BE LOCATED IN DUCT BANK SECTION A.
4. CONTRACTOR TO NOTE EXISTING ADJACENT 345 KV OVERHEAD LINES AND FOLLOW APPLICABLE OSHA REQUIREMENTS. COORDINATE WITH COMED.
5. ALL EXPOSED METALLIC PARTS ASSOCIATED WITH PUMP STATION SHALL BE GROUNDED.
6. CONTRACTOR SHALL COORDINATE CROSSING OF DUCT BANK CONTAINING SECONDARY CONDUCTORS FROM PAD MOUNT TRANSFORMER (PMT-A) AND LIGHTING PANEL AND PLC CONDUCTORS FROM GENERATOR (EG-1).
7. CONTRACTOR SHALL STUB UP CONDUITS C-31, C-58, P-44 AND P-71 ON EAST SIDE OF DISCHARGE CHAMBER, PROVIDE LB FITTINGS BEFORE CONDUITS ENTER CONCRETE SLAB, AND MOUNT CONDUITS IN CONCRETE SLAB, SUCH THAT CONDUITS ARE NOT EXPOSED AND DO NOT CREATE A TRIPPING HAZARD.
8. CONTRACTOR SHALL PROVIDE PULLBOX ON EXTERIOR OF PUMP STATION FOR DUCT BANK 'E'. CONDUITS SHALL ENTER PUMP ABOVE GRADE SUCH THAT CONDUITS ARE ROUTED OVERHEAD OF ELECTRICAL EQUIPMENT WITHIN ELECTRICAL CONTROL ROOM; PROVIDE LB FITTINGS BEFORE CONDUITS ENTER PUMP STATION EXTERIOR WALL.
9. CONTRACTOR SHALL FIELD VERIFY EXISTING ROADWAY FIXTURE TYPE. REPLACE EXISTING FIXTURES WITH LED LUMINAIRE AND REPLACE EXISTING BALLASTS WITH MULTI-TAP BALLAST; TYPICAL OF FOUR. SEE DRAWING G-7 FOR LOCATION INFORMATION.
11. CONTRACTOR SHALL INSTALL NEW DUCT BANK FROM PUMP STATION TO ROADWAY FIXTURES ON WEST SIDE OF RAILROAD VIA NEW HANDHOLE. DUCT BANK SHALL EXTEND FROM ROADWAY FIXTURE TO ROADWAY FIXTURE TO EXISTING HANDHOLE. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT TO FEED TWO ROADWAY FIXTURES ON EAST SIDE OF RAILROAD. REUSE CONDUIT ALONG WISCONSIN CENTRAL LIMITED AND UNION PACIFIC RAILROADS FROM EXISTING HANDHOLE ON SOUTHWEST SIDE OF US-14 TO EXISTING HANDHOLE ON NORTHEAST SIDE OF US-14 IN ACCORDANCE WITH SPECIAL PROVISIONS. CONTRACTOR RESPONSIBLE FOR APPURTENANCES TO INTERCONNECT EXISTING AND PROPOSED RACEWAYS. CONTRACTOR SHALL COORDINATE ROADWAY LIGHTING AND FIBER DUCT BANK CROSSINGS.

SCALE: 0 5 10 20 FT.

E4

FILE NAME = Q:\Engineering\LivePrjects\20805_IDOT DUR\WO 11 62H38\CADD\CADD Sheets\Civil\D162H38-sht-PS8.dgn

DONOHUE	USER NAME =	DESIGNED - MBS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PUMP STATION NO. 8 RELOCATION ELECTRICAL SITE PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MBS	REVISED -			3512	2018-109-RS,SW&T	COOK	130	54B
	PLOT SCALE =	CHECKED - JAB	REVISED -					CONTRACT NO. 62H38		
	PLOT DATE =	DATE - 09-29-17	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT SVKQ(134)		

FOR INFORMATION ONLY

CONTROLS CONDUIT						
NUMBER	MIN SIZE (IN.)	TYPE	CONDUCTOR QUANTITY AND SIZE (AWG-KCMIL)	COND./CABLE INSULATION	FROM	TO
C-1	3/4	PVC-GRS	VENDOR FURNISHED CABLE	-	LE-0121	LIT-0121
C-2	3/4	PVC-GRS	VENDOR FURNISHED CABLE	-	LE-0122	LIT-0122
C-3	3/4	PVC-GRS	VENDOR FURNISHED CABLE	-	LE-0111	LIT-0111
C-4	3/4	PVC-GRS	1 X 1 TWISTED SH PR CABLE	PVC	LT-0112	PLC-1
C-5	1 1/2	PVC-GRS	24-1/C#14 & 1-1/C#14 GRD	THHN	JBX-06	PLC-1
C-6	1	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	JBX-MP1	MCC-1 (SECTION 6A)
C-7	1	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	CS-MP1	MCC-1 (SECTION 6A)
C-8	1	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	JBX-MP2	MCC-1 (SECTION 5A)
C-9	1	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	CS-MP2	MCC-1 (SECTION 5A)
C-10	1	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	JBX-MP3	MCC-1 (SECTION 4A)
C-11	1	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	CS-MP3	MCC-1 (SECTION 4A)
C-12	3/4	PVC-GRS	8-1/C#14 & 1-1/C#14 GRD	THHN	RG-1	PLC-1
C-13	3/4	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	RG-1	MCC-1 (SECTION 8E)
C-14	3/4	PVC-GRS	3C-S & 1-1/C#14 GRD	PVC	GS-1	CGM
C-15	3/4	PVC-GRS	3C-S & 1-1/C#14 GRD	PVC	GS-2	CGM
C-16	3/4	PVC-GRS	3C-S & 1-1/C#14 GRD	PVC	GS-3	CGM
C-17	3/4	GRS	1 COPPER ETHERNET	CAT-5e	SPD	NET-1
C-18	3/4	PVC-GRS	8-1/C#14 & 1-1/C#14 GRD	THHN	DG-1	PLC-1
C-19	3/4	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	DG-1	MCC-1 (SECTION 8F)
C-20	3/4	PVC-GRS	VENDOR FURNISHED CABLE	-	FSDC	PLC-1
C-21	1	PVC-GRS	VENDOR FURNISHED CABLES	-	FE-0102	FIT-0102
C 22	3/4	PVC GRS	6 1/C#14 & 1 1/C#14 GRD	THHN	CS SF1	MCC 1 (SECTION 7C)
C-23	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	IS-SF1	MCC-1 (SECTION 7C)
C-24	3/4	PVC-GRS	6-1/C#14 & 1-1/C#14 GRD	THHN	CS-SF-ECR	MCC-1 (SECTION 8C)
C-25	3/4	PVC-GRS	6-1/C#14 & 1-1/C#14 GRD	THHN	CS-EF-PR	MCC-1 (SECTION 7D)
C-26	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	IS-EF-PR	MCC-1 (SECTION 7D)
C-27	3/4	GRS	6-1/C#14 & 1-1/C#14 GRD	THHN	FP-1	PLC-1
C-28	3/4	GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FP-1	AP-1
C-29	1	GRS	6 X 1 COPPER ETHERNET CABLES	CAT-5e	NET-1	PLC-1
C-30	-	-	VENDOR FURNISHED CABLES	-	FS1-FS8	JBX-06
C-31	2	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FSPF	PLC-1
C-32	3/4	GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	AP-1	PLC-1
C-33	1	GRS	14-1/C#14 & 4-1/C#14 GRD	THHN	NET-1	PLC-1
C-34	1	GRS	2 X 1 VIDEO CABLES	PVC	NET-1	PLC-1
C-35	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	JBX-07	PLC-1
C-36	3/4	GRS	2 COPPER ETHERNET	CAT-5e	MCC-1	NET-1
C-37	2	GRS	88-1/C#14 & 1-1/C#14 GRD	THHN	MCC-1	PLC-1
C-38	1 1/2	GRS	4 X 1 TWISTED SH PR CABLE	PVC	MCC-1	PLC-1
C-39	2	GRS	74-1/C#14 & 1-1/C#14 GRD	THHN	MCC-1	PLC-1
C-40	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	CGM	PLC-1
C-41	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	KS-1	AP-1
C-42	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	KS-1	PLC-1
C-43	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	LP-1	JBX-07
C-44	2	PVC	12-1/C#14 & 1-1/C#14 GRD	THHN	GENERATOR	PLC-1
C-45	1	PVC	6-1/C#14 & 1-1/C#14 GRD	THHN	GENERATOR	MCC-1 (SECTION 9A)
C-46	1	GRS	1 X 1 TWISTED SH PR CABLE	PVC	GENERATOR	PLC-1
C-47	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-1	AP-1
C-48	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-2	AP-1
C-49	3/4	GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-3	AP-1
C-50	3/4	GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-4	AP-1
C-51	3/4	GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-5	AP-1
C-52	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	DS-6	AP-1
C-53	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAHS-1	FP-1
C-54	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAHS-2	FP-1
C-55	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAHS-3	FP-1
C-56	3/4	GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAHS-4	FP-1
C-57	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	FAPS-1, -2	FP-1
C-58	2	PVC-GRS	SPARE	-	FSPF	PLC-1
C-59	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAPS-3, -4	FP-1
C-60	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAPS-5	FP-1
C-61	3/4	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	FAPS-6	FP-1
C-62	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	SD-1, SD-2	FP-1
C-63	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	HD-1, HD-2	FP-1
C-64	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	HD-3, HD-4	FP-1
C-65	3/4	PVC-GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	HD-5, HD-6	FP-1
C-66	2	PVC	SPARE	-	GENERATOR	PLC-1
C-67	1	PVC-GRS	2-1/C#14 & 1-1/C#14 GRD	THHN	JBX-LFP1	MCC-1 (SECTION 7E)
C-68	1	PVC-GRS	10-1/C#14 & 1-1/C#14 GRD	THHN	CS-LFP1	MCC-1 (SECTION 7E)
C-69	-	-	NOT USED - FUTURE PUMP	-	-	-
C-70	-	-	NOT USED - FUTURE PUMP	-	-	-
C-71	3/4	GRS	1 X 1 TWISTED SH PR CABLE	PVC	FIT-0102	PLC-1
C-72	3/4	GRS	2-1/C#14 & 1 1/C#14 GRD	THHN	FIT 0102	PLC 1
C-73	3/4	GRS	1 X 1 TWISTED SH PR CABLE	PVC	LIT-0111	PLC-1
C-74	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	LIT-0111	PLC-1
C-75	3/4	GRS	1 X 1 TWISTED SH PR CABLE	PVC	LIT-0121	PLC-1
C-76	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	LIT-0121	PLC-1
C-77	3/4	GRS	1 X 1 TWISTED SH PR CABLE	PVC	LIT-0122	PLC-1
C-78	3/4	GRS	4-1/C#14 & 1-1/C#14 GRD	THHN	LIT-0122	PLC-1

POWER CONDUIT						
NUMBER	MIN SIZE (IN.)	TYPE	CONDUCTOR QUANTITY AND SIZE (AWG-KCMIL)	COND./CABLE INSULATION	FROM	TO
P-1	1 1/2	PVC-GRS	3-1/C#3 & 1-1/C#8 GRD	XHHW-2	JBX-MP1	MCC-1 (SECTION 6A)
P-2	1 1/2	PVC-GRS	3-1/C#3 & 1-1/C#8 GRD	XHHW-2	JBX-MP2	MCC-1 (SECTION 5A)
P-3	1 1/2	PVC-GRS	3-1/C#3 & 1-1/C#8 GRD	XHHW-2	JBX-MP3	MCC-1 (SECTION 4A)
P-4	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	XHHW-2	JBX-LFP1	MCC-1 (SECTION 7E)
P-5	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	RG-1	DSC-RG-1
P-6	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-RG-1	MCC-1 (SECTION 8E)
P-7	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DM-4	DSC-DM-4
P-8	3/4	GRS	4-1/C#12 & 1-1/C#12 GRD	THHN	DSC-DM-4/LS4	MCC-1 (SECTION 8C)
P-9	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EUH-PR-1	DSC-EUH-PR-1
P-10	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-EUH-PR-1	PP-1 (CIRCUIT 1,3,5)
P-11	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	SF-1	DSC-SF-1
P-12	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-SF-1	MCC-1 (SECTION 7C)
P-13	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DM-1	DSC-DM-1
P-14	3/4	PVC-GRS	4-1/C#12 & 1-1/C#12 GRD	THHN	DSC-DM-1/LS1	MCC-1 (SECTION 7C)
P-15	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EUH-PR-2	DSC-EUH-PR-2
P-16	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-EUH-PR-2	PP-1 (CIRCUIT 2,4,6)
P-17	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EF-PR	DSC-EF-PR
P-18	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-EF-PR	MCC-1 (SECTION 7D)
P-19	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EF-1	DSC-EF-1
P-20	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-EF-1	MCC-1 (SECTION 8A)
P-21	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DM-3	DSC-DM-3
P-22	3/4	PVC-GRS	4-1/C#12 & 1-1/C#12 GRD	THHN	DSC-DM-3/LS3	MCC-1 (SECTION 7D)
P-23	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EUH-PR-3	DSC-EUH-PR-3
P-24	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-EUH-PR-3	PP-1 (CIRCUIT 7,9,11)
P-25	3/4	GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	EUH-ECR	PP-1 (CIRCUIT 8,10,12)
P-26	3/4	GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	SF-ECR	MCC-1 (SECTION 8C)
P-27	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DM-2	DSC-DM-2
P-28	3/4	GRS	4-1/C#12 & 1-1/C#12 GRD	THHN	DSC-DM-2/LS2	MCC-1 (SECTION 8C)
P-29	3/4	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DG-1	DSC-DG-1
P-30	1	PVC-GRS	3-1/C#12 & 1-1/C#12 GRD	THHN	DSC-DG-1	MCC-1 (SECTION 8F)
P-31	2	GRS	MANUFACTURER'S HPI CABLE		SPD	MCC-1 (SECTION 7A)
P-32	3/4	GRS	3-1/C#8 & 1-1/C#10 GRD	THHN	T-1	MCC-1 (SECTION 7B)
P-33	1 1/2	GRS	4-1/C#3 & 1-1/C#8 GRD	THHN	LP-1	T-1
P-34	1 1/2	GRS	3-1/C#3 & 1-1/C#8 GRD	XHHW-2	PP-1	MCC-1 (SECTION 8D)
P-35	1	PVC	2-1/C#12 & 1-1/C#12 GRD	THHN	GENCOOLANT HTR	LP-1 (CIRCUIT 17)
P-36	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	PLC-1	LP-1 (CIRCUIT 18)
P-37	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	PLC-1	LP-1 (CIRCUIT 1)
P-38	3 1/2	PVC	SPARE	-	GENERATOR	MCC-1 (SECTION 11B)
P-39	1	PVC	4-1/C#12 & 2-1/C#12 GRD	THHN	GEN STRIP HTR & BATT CHRGER	LP-1 (CIRCUITS 13 & 15)
P-40	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	AP-1	LP-1 (CIRCUIT 20)
P-41	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	FP-1	LP-1 (CIRCUIT 19)
P-42	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	CGM	LP-1 (CIRCUIT 29)
P-43	3/4	GRS	4-1/C#12 & 2-1/C#12 GRD	THHN	LIGHT CONTROL	LP-1 (CIRCUITS 11 & 22)
P-44	1 1/2	PVC	3-1/C#6 & 1-1/C#10 GRD	THHN	EX. LIGHT FIX.	LP-1 (CIRCUIT 12/14); VIA HANDHOLE
P-45	3	PVC-GRS	2 SETS: 4-1/C#3/0 & 1-1/C#1/0 GRD	XHHW-2	METERING CABINET	1
P-46	3	PVC	2 SETS: 4-1/C#3/0 & 1-1/C#1/0 GRD	XHHW-2	PMT-A	METERING CABINET
P-47	3 1/2	PVC	4-1/C#500 KCMIL & 1-1/C#3 GRD	XHHW-2	GENERATOR	MCC-1 (SECTION 11B)
P-48	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	INT FL LIGHTS	LP-1 (CIRCUIT 8)
P-49	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	WET WELL LIGHTS	LP-1 (CIRCUIT 28)
P-50	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	INT FL RECP	LP-1 (CIRCUIT 9)
P-51	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DISCH FL LIGHTS	LP-1 (CIRCUIT 6)
P-52	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	DISCH FLOOR RECP	LP-1 (CIRCUIT 7)
P-53	1	PVC-GRS	2-1/C#10 & 1-1/C#10 GRD	THHN	PUMP RM LIGHTS	LP-1 (CIRCUIT 4)
P-54	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	ELECT RM LIGHTS	LP-1 (CIRCUIT 2)
P-55	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	PUMP RM RECP	LP-1 (CIRCUIT 5)
P-56	3/4 3/4	PVC-GRS PVC-GRS	2-1/C#12 & 1-1/C#12 GRD 2-1/C#12 & 1-1/C#12 GRD	THHN THHN	EXT LIGHTS EXT LIGHTS	LP-1 (CIRCUIT 24) LP-1 (CIRCUIT 27)
P-57	3/4	GRS	4-1/C#12 & 2-1/C#12 GRD	THHN	LIGHT CONTROL	LP-1 (CIRCUITS 21 & 23)
P-58	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	ELECT RM RECP	LP-1 (CIRCUIT 3)
P-59	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT1	MCC-1 (SECTION 7C)
P-60	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT2	MCC-1 (SECTION 8C)
P-61	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT3	MCC-1 (SECTION 7D)
P-62	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT4	EUH-PR-1
P-63	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT5	EUH-PR-2
P-64	3/4	PVC-GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT6	EUH-PR-3
P-65	3/4	GRS	2-1/C#12 & 1-1/C#12 GRD	THHN	T-STAT7	EUH-ECR
P-66	-	-	NOT USED - FUTURE PUMP	-	-	-
P-67	-	-	NOT USED - FUTURE PUMP	-	-	-
P-68	-	-	NOT USED - FUTURE PUMP	-	-	-
P-69	3	PVC-GRS	2 SPARE CONDUITS		METERING CABINET	MCC-1 (SECTION 10B)
P-70	3	PVC	2 SPARE CONDUITS		PMT-A	METERING CABINET
P-71	1 1/2	PVC	SPARE	-	EX. LIGHT FIX.	LP-1; VIA HANDHOLE

NOTES:

1. PVC-GRS IS PVC COATED GRS CONDUIT
2. TWISTED SH PR IS #16AWG TWISTED SHIELDED PAIR
3. 3C-S IS #16 TWISTED TRIAD CABLE
4. CE IS COPPER ETHERNET

E37

FILE NAME = Q:\Engineering\LiveProjects\2005_IDOT DUR\WG 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-PS8.dgn

DONOHUE

USER NAME =	DESIGNED - MBS	REVISED -	
	DRAWN - MBS	REVISED -	
PLOT SCALE =	CHECKED - JAB	REVISED -	
PLOT DATE =	DATE - 09-29-17	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 8 RELOCATION
ELECTRICAL
POWER AND CONTROL CONDUIT SCHEDULE

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

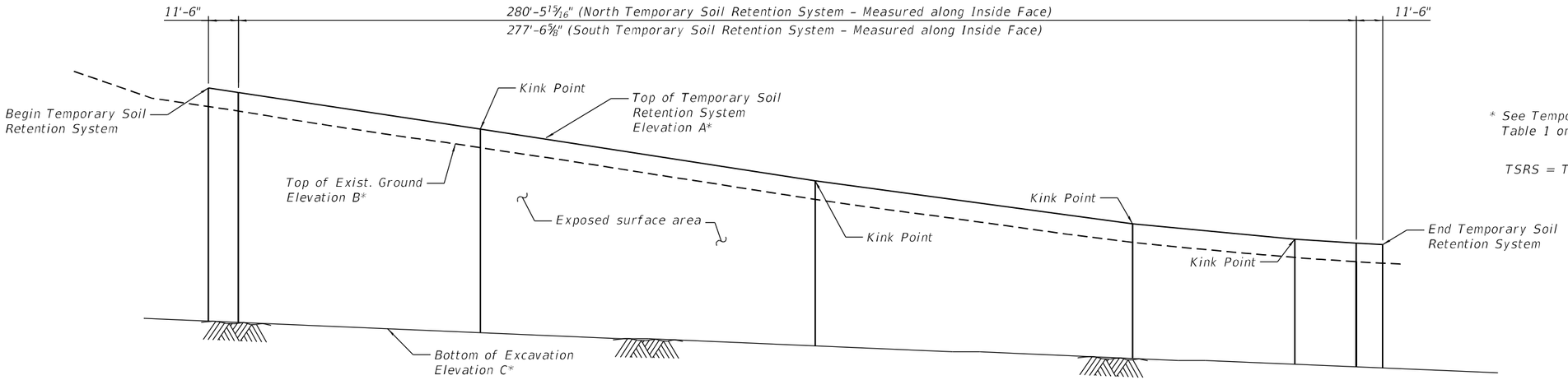
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	54C
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

TEMPORARY SOIL RETENTION SYSTEM ELEVATION - TABLE 1

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Begin Soil Retention	115+08.97	637.80	636.80	617.70	Begin Soil Retention	115+01.94	637.80	636.80	617.70
Kink Point 1	115+72.39	634.93	633.93	618.04	Kink Point 4	115+72.51	635.19	634.11	618.04
Kink Point 2	116+55.85	631.80	630.80	617.02	Kink Point 5	116+56.26	631.80	630.80	617.02
Kink Point 3	117+34.31	629.30	628.30	616.70	Kink Point 6	117+33.36	629.30	628.30	616.70
End Soil Retention	117+70.37	628.23	627.23	615.53	End Soil Retention	117+84.35	628.29	627.47	615.53

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

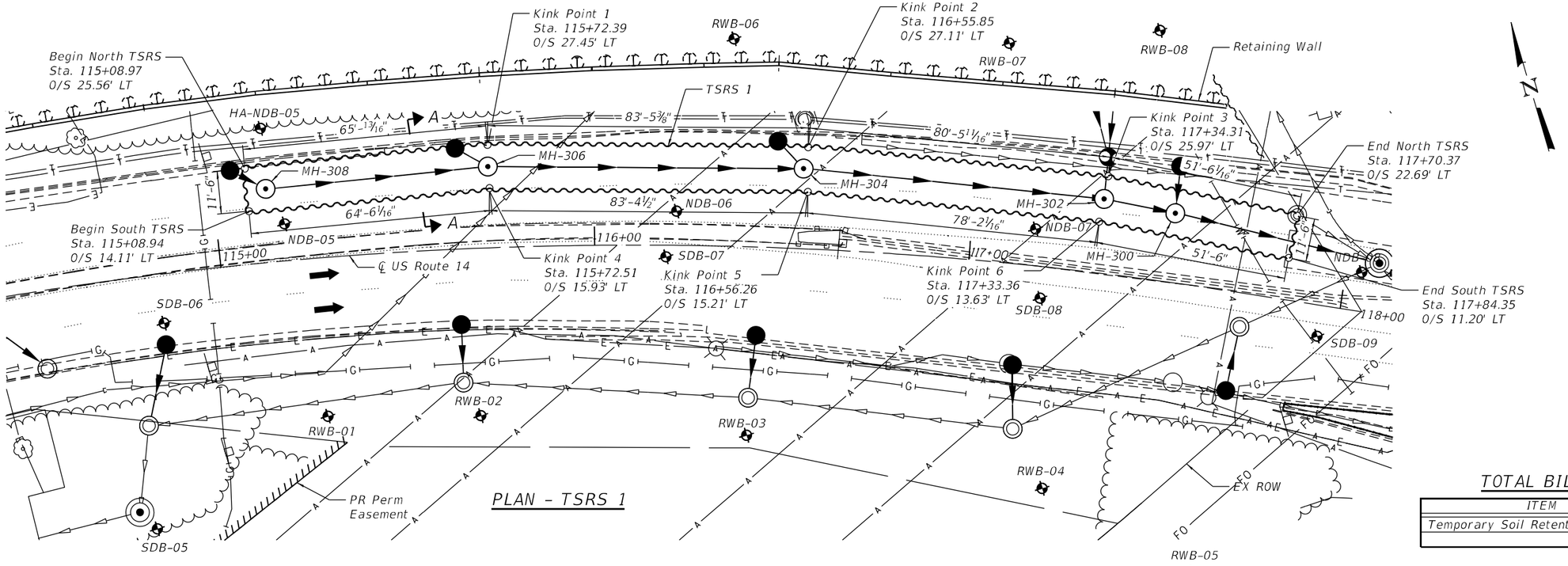


* See Temporary Soil Retention System Elevation Table 1 on this sheet for information

TSRS = Temporary Soil Retention System

ELEVATION - TSRS 1

(Looking at Inside Face)



PLAN - TSRS 1

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	9,455

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Accurate GROUP, INC.

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PLOT DATE = 10/15/2021	CHECKED - SPS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATIONS)
US ROUTE 14
SHEET NO.S-01 OFS-23SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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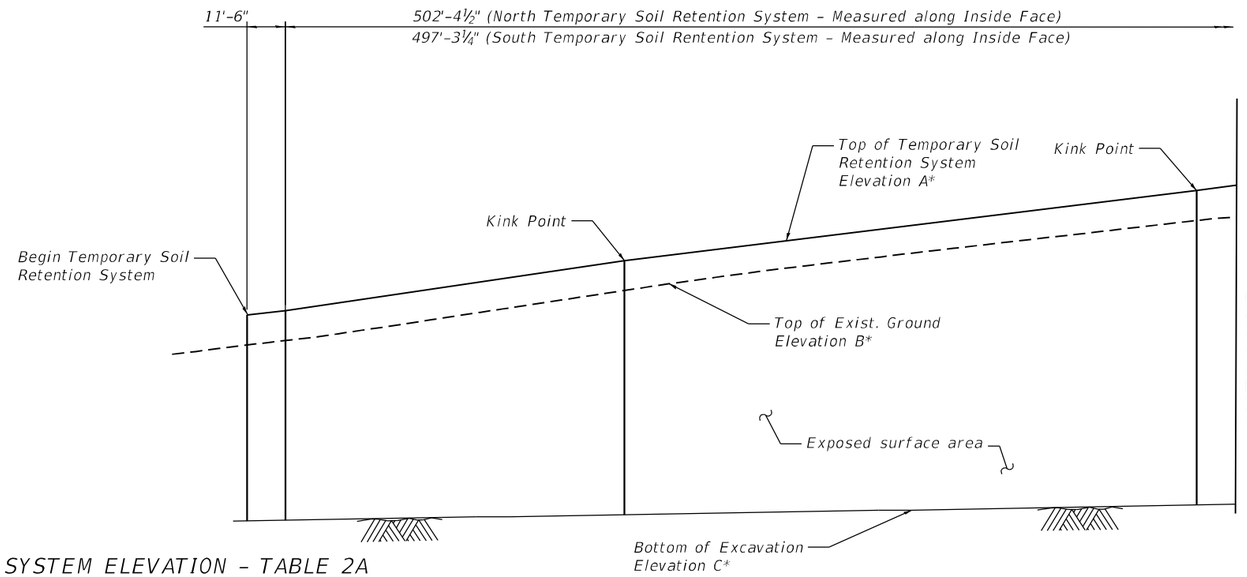
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			



* See Temporary Soil Retention System Elevation – Table 2A on this sheet for information

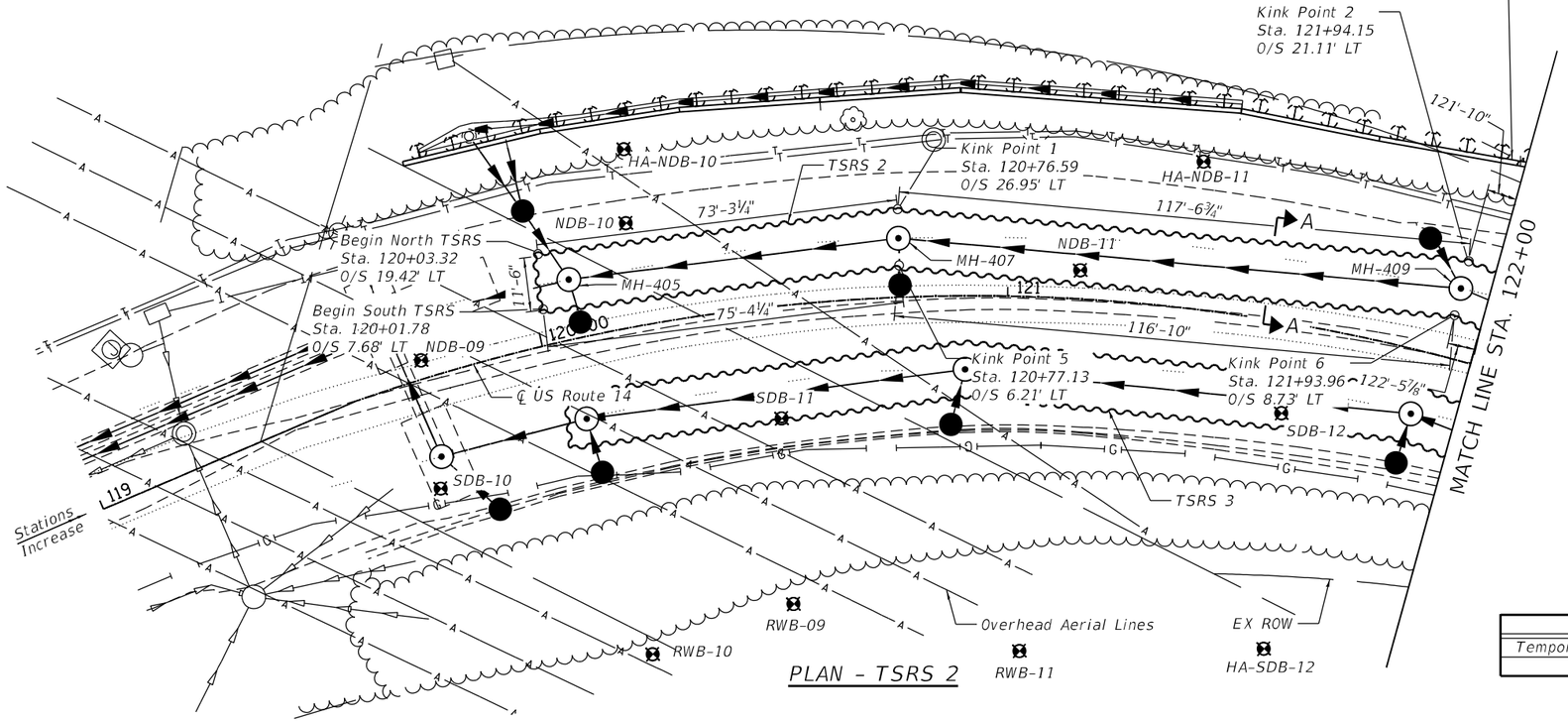
TSRS = Temporary Soil Retention System

TEMPORARY SOIL RETENTION SYSTEM ELEVATION – TABLE 2A

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Begin Soil Retention	120+03.32	629.74	628.74	616.12	Begin Soil Retention	120+01.78	629.58	628.58	616.12
Kink Point 1	120+76.59	631.57	630.57	616.63	Kink Point 5	120+77.13	631.43	630.43	616.63
Kink Point 2	121+94.15	635.93	634.93	616.91	Kink Point 6	121+93.96	635.78	634.78	616.91

ELEVATION – TSRS 2

(Looking at Inside Face)



PLAN – TSRS 2

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	19,031

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Accurate GROUP, INC.

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PLOT DATE = 10/15/2021	CHECKED - SPS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATIONS)
US ROUTE 14
SHEET NO.S-020FS-23SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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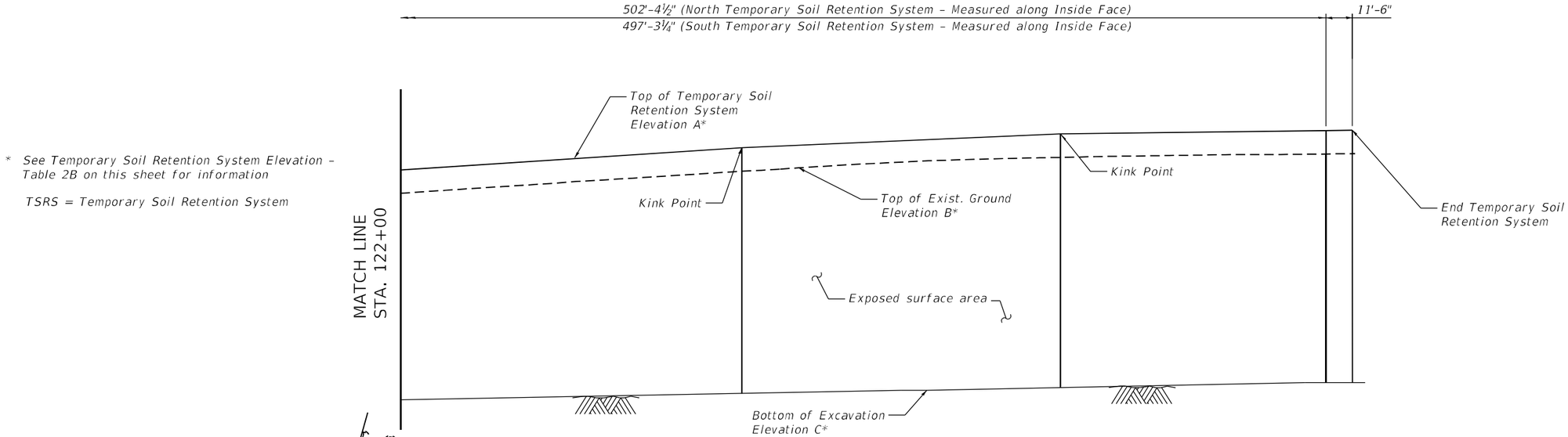
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

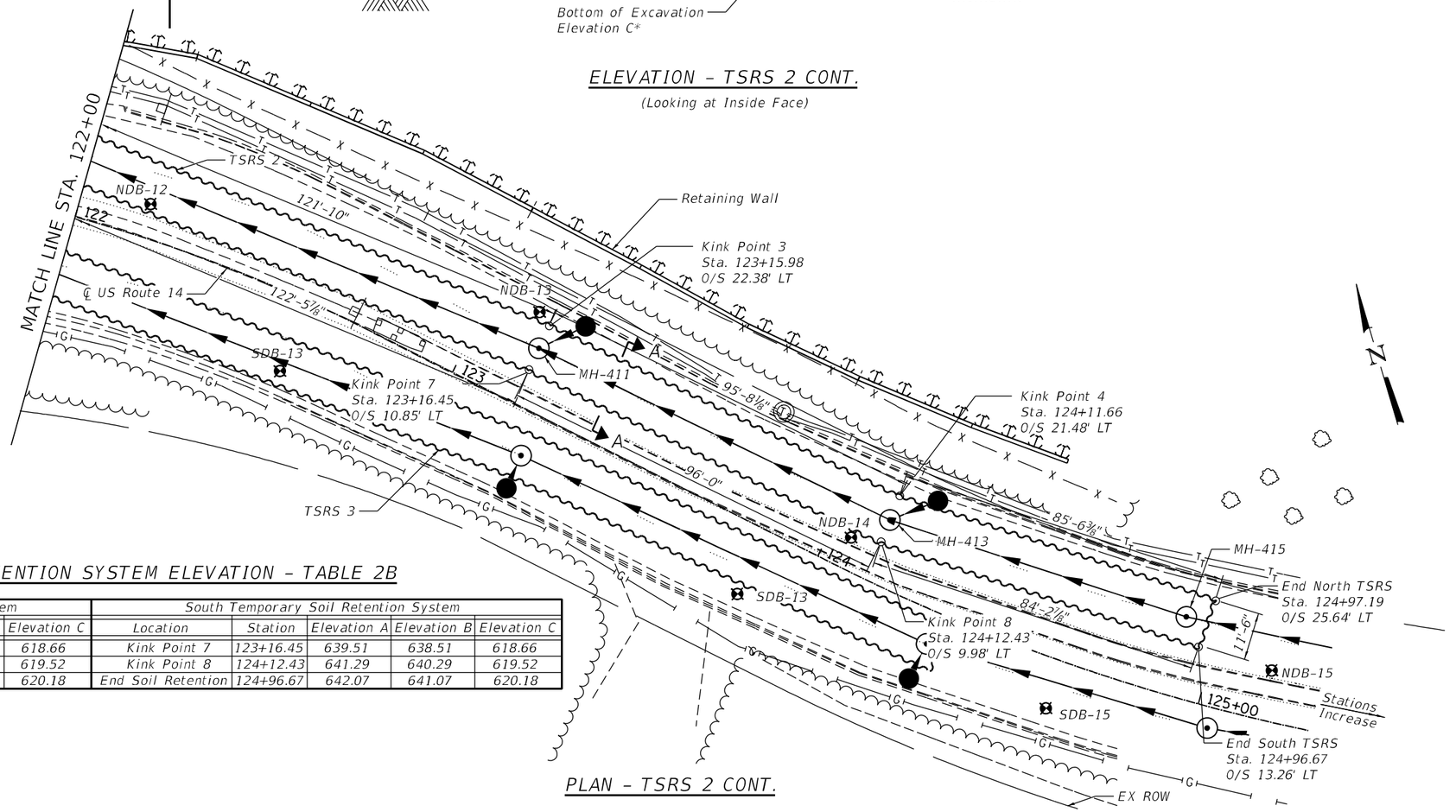


* See Temporary Soil Retention System Elevation - Table 2B on this sheet for information

TSRS = Temporary Soil Retention System

ELEVATION - TSRS 2 CONT.

(Looking at Inside Face)



PLAN - TSRS 2 CONT.

TEMPORARY SOIL RETENTION SYSTEM ELEVATION - TABLE 2B

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Kink Point 3	123+15.98	639.16	638.16	618.66	Kink Point 7	123+16.45	639.51	638.51	618.66
Kink Point 4	124+11.66	640.75	639.75	619.52	Kink Point 8	124+12.43	641.29	640.29	619.52
End Soil Retention	124+97.19	641.75	640.75	620.18	End Soil Retention	124+96.67	642.07	641.07	620.18

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STATE OF ILLINOIS
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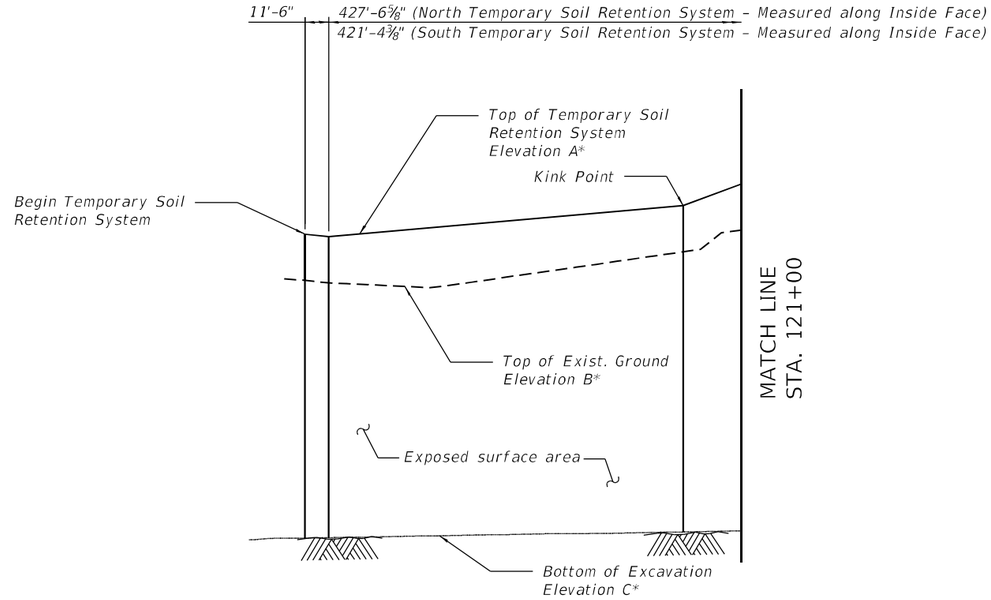
TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATIONS)
US ROUTE 14
SHEET NO.S-030FS-23SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	57
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

* See Temporary Soil Retention System Elevation – Table 3A on this sheet for information

TSRS = Temporary Soil Retention System

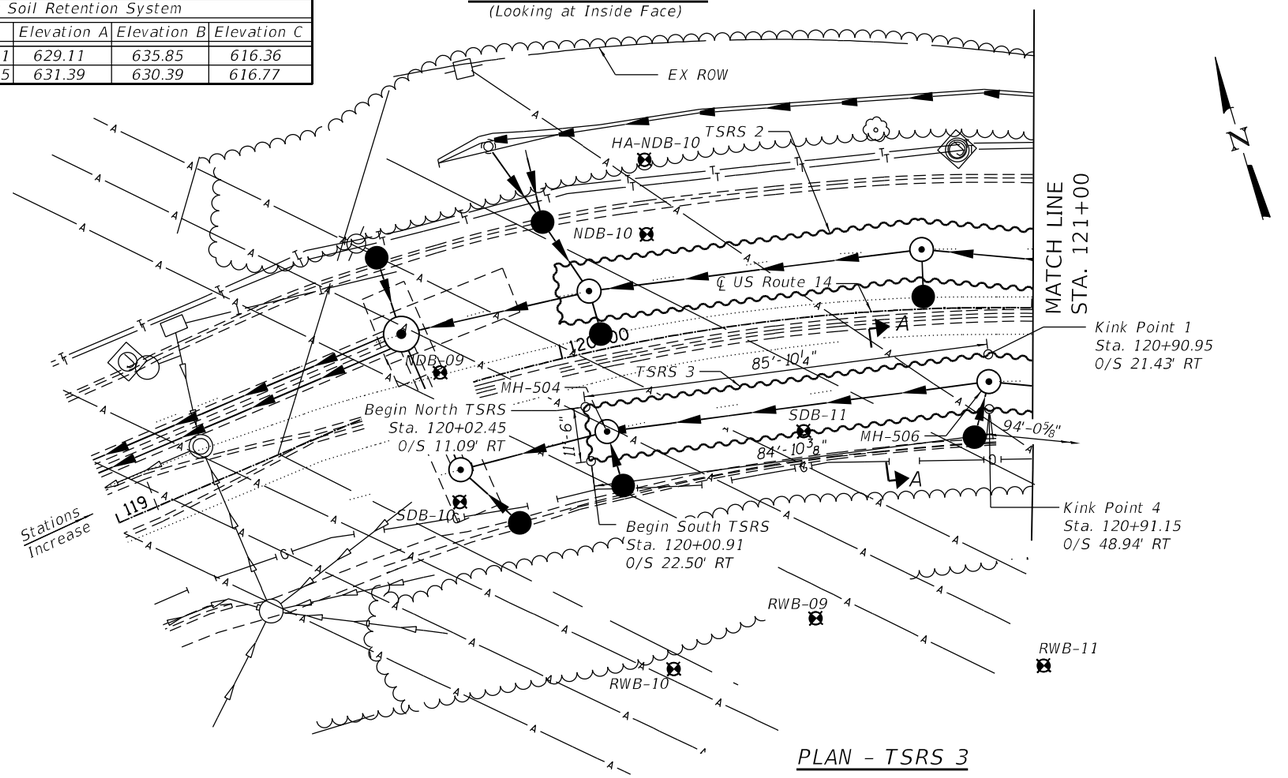


TEMPORARY SOIL RETENTION SYSTEM ELEVATION – TABLE 3A

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Begin Soil Retention	120+02.45	629.40	628.40	616.36	Begin Soil Retention	120+00.91	629.11	635.85	616.36
Kink Point 1	120+90.81	631.75	630.75	616.77	Kink Point 4	120+90.95	631.39	630.39	616.77

ELEVATION – TSRS 3

(Looking at Inside Face)



PLAN – TSRS 3

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	16514

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Accurate GROUP, INC.

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PLOT DATE = 10/15/2021	CHECKED - SPS	REVISED

STATE OF ILLINOIS
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TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATIONS)
US ROUTE 14
SHEET NO.S-040FS-23 SHEETS

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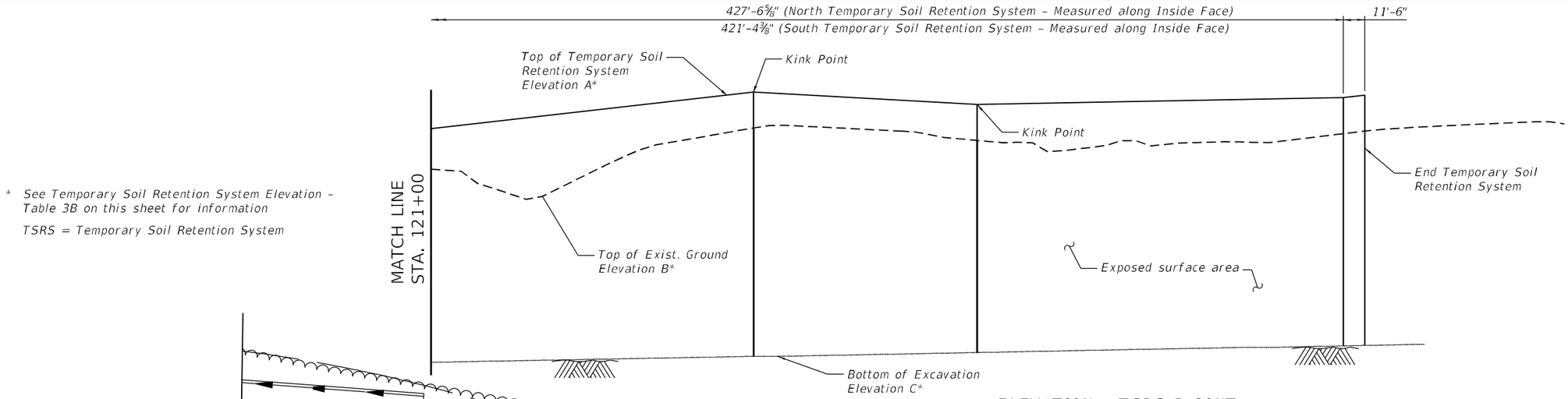
	ILLINOIS FED. AID PROJECT			

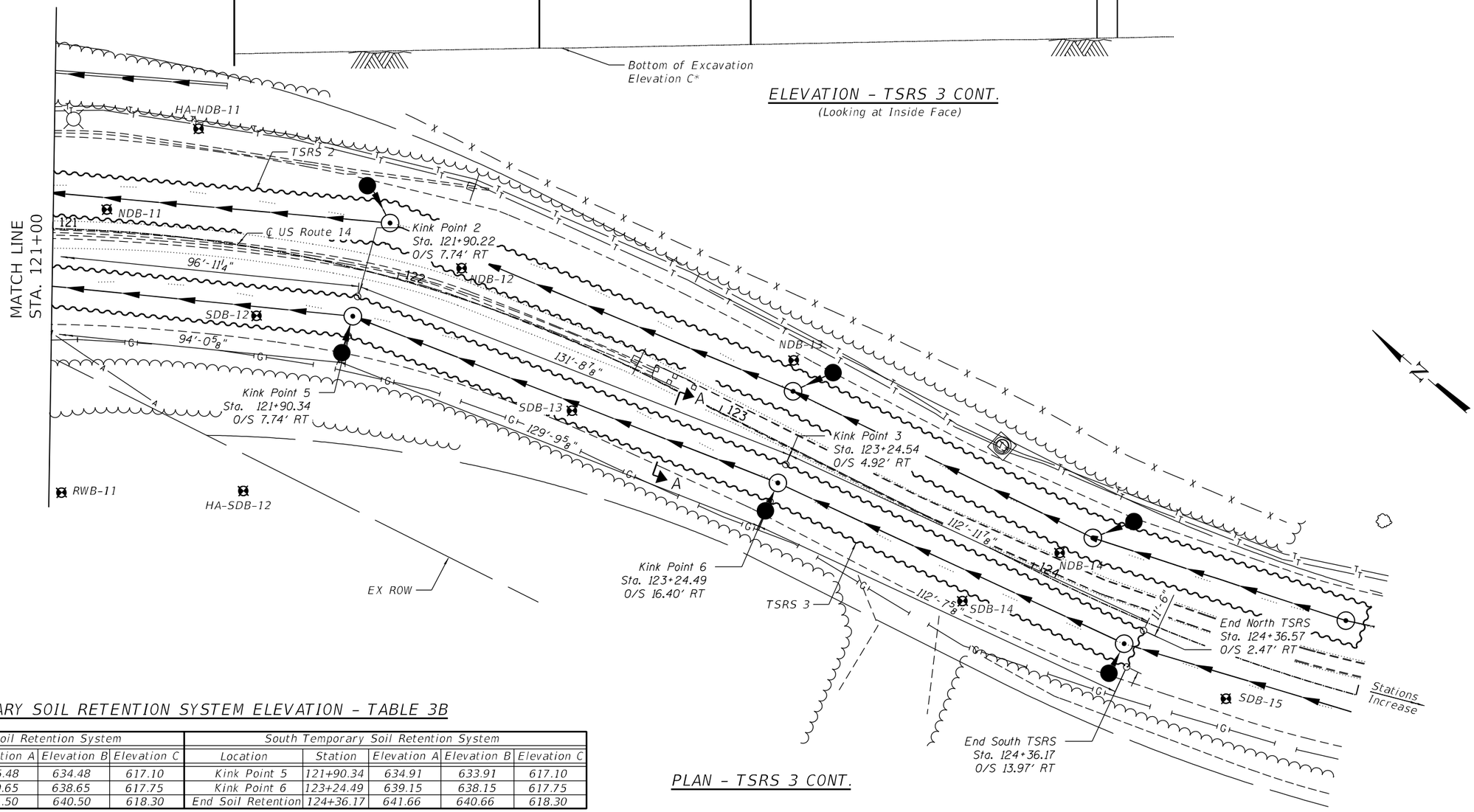


* See Temporary Soil Retention System Elevation – Table 3B on this sheet for information

TSRS = Temporary Soil Retention System

ELEVATION – TSRS 3 CONT.

(Looking at Inside Face)



PLAN – TSRS 3 CONT.

TEMPORARY SOIL RETENTION SYSTEM ELEVATION – TABLE 3B

North Temporary Soil Retention System					South Temporary Soil Retention System				
Location	Station	Elevation A	Elevation B	Elevation C	Location	Station	Elevation A	Elevation B	Elevation C
Kink Point 2	121+90.22	635.48	634.48	617.10	Kink Point 5	121+90.34	634.91	633.91	617.10
Kink Point 3	123+24.54	639.65	638.65	617.75	Kink Point 6	123+24.49	639.15	638.15	617.75
End Soil Retention	124+36.57	641.50	640.50	618.30	End Soil Retention	124+36.17	641.66	640.66	618.30

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM (PLAN AND ELEVATIONS)
US ROUTE 14
SHEET NO.S-05 OF S-23SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	59
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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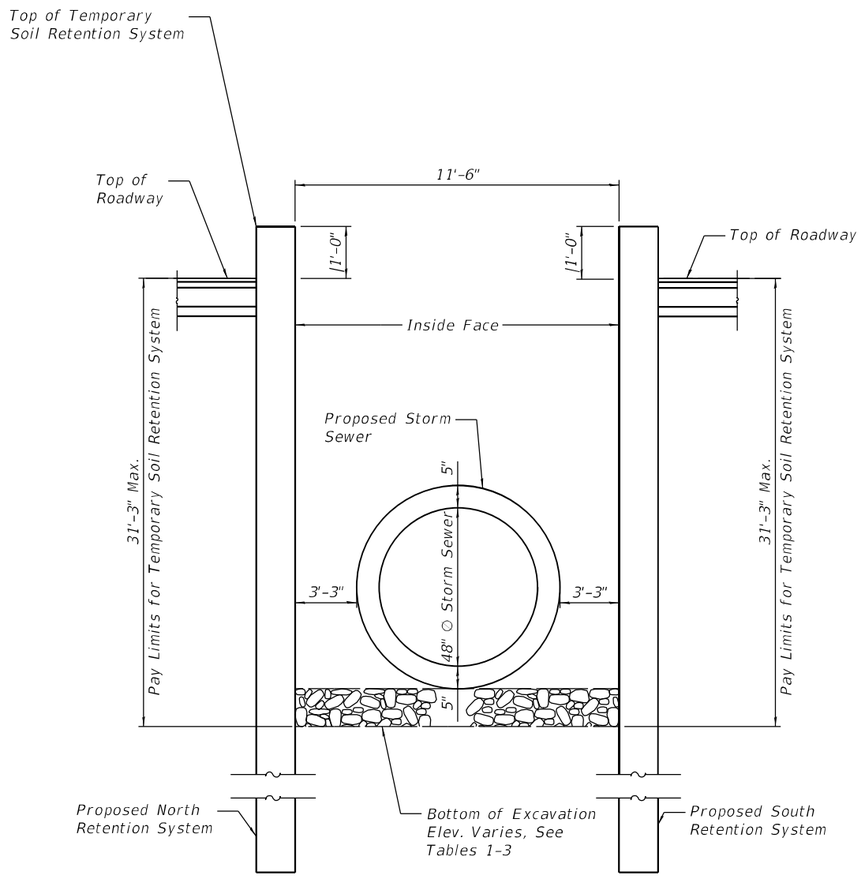

SECTION A-A
(Looking East)

CONSTRUCTION SEQUENCE:

1. Locate all underground and overhead utilities and structures. Relocate and/or protect utilities as required by the contract drawings and specifications.
2. Install Temporary Soil Retention System (TSRS) to the tip elevation as designed by the Contractor.
3. Provide necessary bracing to the soil retention system as designed by the Contractor and reviewed by the Engineer.
4. Excavate to the bottom of the excavation elevation.
5. Construct bedding for the storm sewer.
6. Install proposed 48" ○ storm sewer and drainage structures within TSRS as per plans and specifications.
7. Backfill the excavated area with trench backfill as per plans and specifications.
8. Remove TSRS.

GENERAL NOTES:

1. Construction of the Temporary Soil Retention System shall be as per Standard Specifications for Temporary Soil Retention System.
2. Stations and Offsets for the Temporary Soil Retention System are given from ℄ US Rte. 14 to the inside face of Soil Retention System.
3. Temporary Soil Retention System length is measured along the inside face of the retention system.
4. The Contractor shall field verify location of exist. utilities and shall take all precautions to protect exist. utilities during the construction of the retention system. Any damage to the exist. utilities shall be the responsibility of the Contractor.
5. The Contractor shall provide access, barricading and fall protection in accordance with applicable OSHA guidelines as required during construction and as deemed necessary by the Engineer. The Contractor shall ensure that the retention system is properly installed before entering the excavation area.
6. The retention system shall be installed in a manner that ensures soils are fully supported during all phases of work and that no voids exist between the retention system and existing soils.
7. Groundwater may be present in the excavation areas. The Contractor shall consider this information when selecting equipment and construction methods. The Contractor will not be compensated for issues related to the groundwater.
8. Groundwater level shall be maintained at or below the excavation elevation at all times. If a dewatering system is necessary, and as required by the Engineer, the Contractor is responsible for developing, installing, maintaining and monitoring the dewatering system and verifying that the groundwater level behind the soil retention has been lowered to the excavation elevation.
9. Any storage of construction requirement and/or material behind the Temporary Soil Retention System is not allowed.
10. Contractor shall not support any construction equipment and/or material from any elements of Temporary Soil Retention System.
11. Contractor shall develop details for the opening in the retention system for the proposed 48" Ø storm sewer pipe. The Contractor shall submit plans and calculations, prepared and sealed by Illinois Licensed Structural Engineer, for review and approval to Bureau of Bridges and Structures prior to commencing any work and ordering material.
12. The retention system is intended only for the installation of the 48" Ø storm sewer pipe and associated manholes under the highway. Before any catch basins and the storm sewer pipes connecting them to the aforementioned manholes are installed, the retention system shall be removed and the trench appropriately backfilled.
13. For Boring Logs see Sheets S-07 thru S-23.

FILE NAME = O:\Engineering\LiveProjects\20005.IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Structural\062H38-006-Soil Retention Details.dgn

Accurate GROUP, INC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM (DETAILS)
US ROUTE 14
SHEET NO.S-06 OFS-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	60
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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

BORING LOG HA-NDB-05

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 640.07 ft
North: 1960232.49 ft
East: 1102212.23 ft
Station: 115+13.96
Offset: 35.83 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.6	6-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	PUSH	4.5 P	13
		Hard, brown SILTY CLAY, trace gravel			2	PUSH	4.5 P	14
			5		3	PUSH	4.5 P	15
	634.1	Boring terminated at 6.00 ft						
			10					
			15					
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	09-02-2015	Complete Drilling	09-02-2015	While Drilling	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	DRY
Driller	R&K	Logger	D. Kolpacki	Time After Drilling	NA
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Checked by	B. Wilson	Depth to Water	NA

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

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Lombard, IL 60148
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Fax: 630 953-9938

BORING LOG HA-NDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.14 ft
North: 1960030.03 ft
East: 1102696.51 ft
Station: 120+24.30
Offset: 37.66 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.6	7-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	PUSH	4.5 P	14
	630.1	Hard, brown SILTY CLAY, trace gravel --FILL--			2	PUSH	4.5 P	16
		Very stiff to hard, gray SILTY CLAY, trace gravel	5		3	PUSH	3.25 P	25
	628.1	Boring terminated at 6.00 ft						
			10					
			15					
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	09-02-2015	Complete Drilling	09-02-2015	While Drilling	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling	DRY
Driller	R&K	Logger	D. Kolpacki	Time After Drilling	NA
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Checked by	B. Wilson	Depth to Water	NA

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

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PLOT DATE = 10/15/2021	DATE - 10/15/2021		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – HA–NDB 5–10
US ROUTE 14

SCALE: | SHEET S-07 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	61
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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

BORING LOG HA-NDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 635.02 ft
North: 1959935.81 ft
East: 1102776.54 ft
Station: 121+38.26
Offset: 31.43 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	634.2	10-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	PUSH	4.5 P	12
		Hard, brown SILTY CLAY, trace gravel			2	PUSH	4.5 P	15
			5		3	PUSH	4.5 P	16
	629.0	Boring terminated at 6.00 ft						
			10					
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **09-02-2015** Complete Drilling: **09-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG HA-SDB-12

Page 1 of 1

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

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 645.06 ft
North: 1959857.36 ft
East: 1102707.43 ft
Station: 121+68.20
Offset: 69.23 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Dark brown SILTY LOAM, trace gravel			1	PUSH	NP	9
	643.6	--FILL-- Dark brown SILTY LOAM --BURIED TOPSOIL--						
	642.1	Hard, brown to gray SILTY CLAY, trace gravel			2	PUSH	4.5 P	16
			5		3	PUSH	4.5 P	13
					4	PUSH	4.5 P	14
	637.1	Boring terminated at 8.00 ft						
			10					
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **08-21-2015** Complete Drilling: **08-21-2015**
Drilling Contractor: **Wang Engineering Inc.** Drill Rig: **Geoprobe HA**
Driller: **B&H** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – HA–NDB 11 & HA–SDB–12
US ROUTE 14

SCALE: | SHEET S-08 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	62
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

Wang Engineering
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Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG NDB-01

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 644.43 ft
North: 1960245.72 ft
East: 1101719.62 ft
Station: 110+24.688
Offset: LT 2.505

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	644.0	5-inch thick, ASPHALT --PAVEMENT--						
	643.4	7-inch thick, CONCRETE --PAVEMENT--						
	643.1	3-inch thick, CRUSHED STONE --BASE COURSE--						
		Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		1		3 3 5	3.69 B	29
			5	2		3 3 3	0.95 B	20
				3		3 4 4	3.03 B	21
	634.4		10	4		3 4 7	3.85 B	20
		Boring terminated at 10.00 ft						
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG NDB-02

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.52 ft
North: 1960227.63 ft
East: 1101863.97 ft
Station: 111+70.841
Offset: LT 5.405

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	643.1	5-inch thick, ASPHALT --PAVEMENT--						
	642.5	7-inch thick, CONCRETE --PAVEMENT--						
	642.2	3-inch thick, CRUSHED STONE --BASE COURSE--						
		Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		1		3 3 4	4.18 B	25
			5	2		2 2 2	2.71 B	24
				3		2 4 5	2.87 B	20
	633.5		10	4		4 4 8	3.44 B	19
		Boring terminated at 10.00 ft						
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG NDB-03

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.04 ft
North: 1960222.52 ft
East: 1102023.69 ft
Station: 113+30.884
Offset: LT 6.01

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.7	4-inch thick, ASPHALT --PAVEMENT--						
	640.7	12-inch thick, CONCRETE --PAVEMENT--						
	639.5	Loose, gray CRUSHED STONE --BASE COURSE--						
		Very stiff to hard, brown to gray SILTY CLAY, trace gravel		1		2 3 3	NP	6
			5	2		6 3 3	2.21 B	20
				3		4 4 8	5.17 B	19
			10	4		2 6 8	5.00 B	17
				5		5 5 5	3.28 B	18
	627.0		15	6		3 6 7	2.87 B	21
		Boring terminated at 15.00 ft						
			20					
			25					

GENERAL NOTES

Begin Drilling: **06-24-2015** Complete Drilling: **06-24-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\Live\Projects\20005_IDOT DUR\WO 11 - 62H38\GADD\CADD Sheets\Civil\BD162H38-sht-BORING LOG NDB 1-3.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 ':' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 1–3
US ROUTE 14

SCALE: | SHEET S-09 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	63
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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BORING LOG NDB-04

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.32 ft
North: 1960219.21 ft
East: 1102107.84 ft
Station: 114+14.636
Offset: LT 7.565

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.3	4-inch thick, ASPHALT --PAVEMENT--						
	640.9							
	639.8	12-inch thick, CONCRETE --PAVEMENT--						
		5-inch thick, gray CRUSHED STONE --BASE COURSE--						
		Very stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			1	3 3 5	2.87 B	19
			5		2	9 10 7	2.00 P	18
					3	7 7 8	3.20 S	19
			10		4	2 5 8	3.50 P	18
					5	3 3 5	2.46 B	21
			15		6	2 3 7	2.62 B	15
	625.8	Medium dense, gray SILTY LOAM, trace gravel --Moist--			7	5 8 7	NP	13
	623.3	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			8	4 5 6	1.89 B	13
			20		9	3 4 5	1.89 B	15
			25		10	2 4 6	1.80 B	15
	613.3	Very dense, gray SILTY LOAM --Dry--			11	4 8 14	6.97 B	15
			30		12	17 34 43	NP	14
	609.6	Hard, gray SILTY CLAY, trace gravel			13	6 9 13	6.15 B	13
			35					
	601.3	Boring terminated at 40.00 ft	40		14	8 12 15	7.71 B	16
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-24-2015** Complete Drilling: **06-24-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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BORING LOG NDB-05

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 636.27 ft
North: 1960206.23 ft
East: 1102211.21 ft
Station: 115+17.969
Offset: LT 9.872

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	635.9	4-inch thick, ASPHALT --PAVEMENT--						
	634.2							
	633.7	12-inch thick, CONCRETE --PAVEMENT--						
		3-inch thick, gray CRUSHED STONE --BASE COURSE--						
		Stiff to hard, gray SILTY CLAY to CLAY, trace gravel			1	5 4 7	4.50 P	15
			5		2	6 5 6	3.44 B	16
					3	6 6 5	2.95 B	23
			10		4	3 3 5	1.64 B	26
	625.8	Medium dense, gray SANDY LOAM, trace gravel --Moist--			5	6 11 13	NP	20
	623.3	Medium dense, gray SILTY LOAM --Dry--	15		6	8 17 12	NP	13
	620.8	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			7	3 3 5	1.64 B	15
			20		8	3 4 5	1.31 B	15
					9	3 7 11	4.92 B	15
	613.3	Dense, gray SILTY LOAM --Wet--	25		10	4 16 27	NP	15
	610.8	Very stiff to hard, gray SILTY CLAY, trace gravel			11	5 7 11	3.77 B	15
			30		12	8 10 13	5.99 B	14
	606.3	Boring terminated at 30.00 ft						
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-24-2015** Complete Drilling: **06-24-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **23.00 ft**
At Completion of Drilling: ▼ **DRY**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGNC 491020J.GPJ WANGENG.GDT 10/26/15

BORING LOG NDB-06

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 632.16 ft
North: 1960179.88 ft
East: 1102312.55 ft
Station: 116+21.767
Offset: LT 9.128

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.3	10-inch thick, ASPHALT --PAVEMENT--						
	630.5	5-inch thick, CONCRETE --PAVEMENT--						
		Stiff to very stiff, gray SILTY CLAY, trace gravel			1	5 4 5	1.25 P	22
			5		2	2 3 4	2.54 B	24
					3	2 4 5	2.71 B	21
					4	2 2 4	1.07 B	23
	622.7	Gray SILT --Wet--	10	▽				
	620.8				5	2 1 2	0.25 P	23
	620.4	Very stiff, gray SILTY CLAY (Qu-2.5tsf)						
	619.2	Soft, gray SILTY CLAY						
		Medium dense, gray SILT --Wet--	15		6	3 8 5	NP	18
	616.7	Medium stiff, gray SILTY CLAY LOAM			7	2 6 8	0.82 B	14
	614.2	Very dense, gray SILT --Dry--	20		8	18 28 36	NP	13
	610.9	Hard, gray SILTY CLAY, trace gravel			9	12 9 9	9.02 B	14
			25		10	9 12 14	8.61 B	12
	600.4	Dense, gray, medium SAND, little gravel --Wet--	30		11	8 13 19	10.25 B	13
					12	8 12 19	10.25 B	15
	597.7		35		13	9 22 24	NP	12
	597.2	Hard, gray SILTY CLAY, trace gravel, silt lenses						
		Boring terminated at 35.00 ft	40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **07-07-2015** Complete Drilling: **07-07-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **9.50 ft**
At Completion of Drilling: ▼ **28.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGNC 491020J.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\GINT\WO162H38-sht-BORING LOG NDB 4-6.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 ':" / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 4–6
US ROUTE 14

SCALE: | SHEET S-10 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	64
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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BORING LOG NDB-07

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 628.89 ft
North: 1960148.20 ft
East: 1102403.14 ft
Station: 117+16.892
Offset: LT 9.824

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
	628.3	7-inch thick, ASPHALT --PAVEMENT--						
	627.5	10-inch thick, CONCRETE --PAVEMENT--						
	626.4	Loose, white SANDY GRAVEL --BASE COURSE-- --Moist--			1	7 5 4	NP	12
		Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5		2	4 8 6	2.95 S	13
					3	2 3 3	2.54 B	11
	620.9	Loose, gray SILT --Wet--			4	4 5 3	NP	15
	619.2	Stiff to hard, gray SITLY CLAY to SILTY CLAY LOAM, trace gravel --Sand lenses--	10		5	2 2 4	1.31 B	14
		--Sandy gravel lenses--	15		6	6 10 13	7.22 B	13
		--Silty loam lenses--			7	5 14 27	6.48 S	15
			20		8	5 12 12	10.25 S	12
					9	10 15 12	10.25 S	12
		--Sand lenses--			10	7 20 21	10.25 S	12
	603.9	Boring terminated at 25.00 ft	25					

WANGENGINC 491020D.GPJ WANGENG.GDT 10/26/15

GENERAL NOTES

Begin Drilling: **06-16-2015** Complete Drilling: **06-16-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG NDB-08

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.22 ft
North: 1960112.45 ft
East: 1102483.35 ft
Station: 118+04.202
Offset: LT 10.375

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
	626.7	6-inch thick, ASPHALT --PAVEMENT--						
	626.0	9-inch thick, CONCRETE --PAVEMENT--			1	5 5 3	NP	7
	624.0	Loose, brown SANDY GRAVEL --BASE COURSE-- --Dry--						
		Stiff, gray SILTY CLAY, trace gravel	5		2	3 2 2	1.56 B	16
					3	2 2 2	1.31 B	15
			10		4	2 3 4	1.48 B	17
	615.2	Dense to very dense, gray SANDY LOAM, some gravel			5	3 9 16	1.80 B	13
		--Wet--	15		6	10 16 21	NP	10
					7	16 24 33	NP	9
	609.2	Hard, gray SILTY CLAY LOAM, trace gravel						
	607.2	Boring terminated at 20.00 ft	20		8	15 17 26	4.18 S	12
			25					

WANGENGINC 491020D.GPJ WANGENG.GDT 10/26/15

GENERAL NOTES

Begin Drilling: **06-16-2015** Complete Drilling: **06-16-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **12.00 ft**
At Completion of Drilling: **15.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG NDB-09

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.99 ft
North: 1960032.50 ft
East: 1102634.19 ft
Station: 119+74.39
Offset: 3.92 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (bw/6 in)	Qu (tsf)	Moisture Content (%)
	627.2	9-inch thick, ASPHALT --PAVEMENT--						
	626.5	9-inch thick, CONCRETE --PAVEMENT--			1	3 2 5	2.71 B	23
	624.7	Very stiff, gray SILTY CLAY, trace gravel						
		Loose to medium dense, gray SILT to SILTY LOAM, interbedded sand and clay --Saturated--	5		2	4 5 10	NP	19
					3	2 3 4	NP	18
	620.0	Stiff to very stiff, gray SILTY CLAY, trace gravel	10		4	3 3 4	1.48 B	16
	615.0	Dense, gray, coarse SAND, some gravel --Saturated--			5	6 7 10	3.85 B	13
			15		6	16 19 11	NP	10
	612.5	Very dense, gray SILT to SILTY LOAM --Wet--			7	18 27 40	NP	16
	608.8	--Saturated--						
	606.0	Very stiff, gray SILTY CLAY, trace gravel	20		8	24 13 14	3.36 B	14
		Boring terminated at 20.00 ft	25					

WANGENGINC 491020D.GPJ WANGENG.GDT 10/26/15

GENERAL NOTES

Begin Drilling: **09-03-2015** Complete Drilling: **09-03-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.25 ft**
At Completion of Drilling: **13.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

FILE NAME = O:\Engineering\LiveProjects\2000S_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\GINWO162H38-sht-BORING LOG NDB 7-9.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '=' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 7–9
US ROUTE 14

SCALE: | SHEET S-11 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	65
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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

BORING LOG NDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 629.23 ft
North: 1960019.25 ft
East: 1102685.01 ft
Station: 120+22.15
Offset: 22.07 LT

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	628.6		8-inch thick, ASPHALT --PAVEMENT--					
	627.7		10-inch thick, CONCRETE --PAVEMENT--					
			Stiff, gray SILTY CLAY, trace gravel		1	3 3 3	1.48 B	15
	626.0		Medium dense, gray SILT --Damp--		2	12 12 14	NP	15
5	623.7		Very stiff, gray SILTY CLAY LOAM, trace gravel		3	3 4 5	2.05 B	14
	621.2		Medium dense, gray SILT, interbedded very fine sand --Saturated--		4	5 7 7	NP	19
10	618.7		Very stiff, gray SILTY CLAY LOAM, trace gravel		5	5 8 9	3.36 B	13
	617.2		Medium dense, gray, fine SAND --Saturated--					
	616.2		Very stiff, gray SILTY CLAY, trace gravel		6	6 15 11	3.28 S	14
15	615.1		Medium dense, gray, coarse SAND, some gravel					
	614.6		Hard, gray SILTY CLAY, trace gravel		7	8 19 22	5.58 B	18
	612.5		Dense, gray SILT --Saturated--					
20					8	20 17 13	NP	17
	609.2		Boring terminated at 20.00 ft					
25								

GENERAL NOTES

Begin Drilling: **09-02-2015** Complete Drilling: **09-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **15.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

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BORING LOG NDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 631.80 ft
North: 1959940.11 ft
East: 1102741.81 ft
Station: 121+15.175
Offset: LT 6.112

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	631.1		8-inch thick, ASPHALT --PAVEMENT--					
	630.8		4-inch thick, CONCRETE --PAVEMENT--		1	5 4 3	2.50 P	16
	630.5		2-inch thick, black SILTY LOAM, trace organic matter --BURIED TOPSOIL--					
			Stiff to very stiff, gray SILTY CLAY, trace gravel		2	5 4 3	1.80 B	15
5	623.8		Loose to medium dense, gray SILT --Wet--		3	4 4 5	3.00 P	18
					4	2 7 8	NP	17
10					5	3 4 4	NP	21
			--Sand lenses--		6	4 4 6	NP	20
15	618.3		Hard, gray SILTY CLAY, trace gravel		7	6 6 8	4.50 P	11
	617.8		--Sand lenses--					
	617.3		3-inch thick, gray medium SAND --Wet--		8	9 12 22	NP	20
20	611.3		Dense, gray SILTY LOAM, trace gravel					
			Hard, gray SILTY CLAY, trace gravel		9	6 9 11	5.99 B	13
					10	6 9 12	6.64 B	15
25	605.8		Boring terminated at 25.00 ft					

GENERAL NOTES

Begin Drilling: **07-07-2015** Complete Drilling: **07-07-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **20.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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BORING LOG NDB-12

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 635.58 ft
North: 1959852.91 ft
East: 1102796.66 ft
Station: 122+16.608
Offset: LT 8.298

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	635.0		7-inch thick, ASPHALT --PAVEMENT--					
			Loose, brown SANDY GRAVEL --BASE COURSE--		1	9 4 4	NP	4
	632.6		Stiff to very stiff, gray SILTY CLAY, trace gravel					
5					2	4 6 7	3.53 B	18
					3	4 4 5	1.72 B	18
10					4	3 4 7	2.38 B	22
			--Silt lenses--		5	1 3 4	1.07 B	20
15	622.6		Soft, gray SILTY CLAY, silt lenses		6	2 3 3	0.41 B	23
	619.1		Loose to medium dense, gray SILT --Saturated--		7	1 3 3	NP	22
20					8	2 6 7	NP	21
					9	3 4 7	NP	22
25			--Sand lenses--		10	6 8 8	NP	20

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	610.1		Medium dense, gray GRAVEL --Saturated--		11	6 10 13	NP	13
	607.6		Hard, gray SILTY CLAY, trace gravel		12	7 12 23	> 4.50 P	12
30	605.6		Boring terminated at 30.00 ft					
35								
40								
45								
50								

GENERAL NOTES

Begin Drilling: **07-07-2015** Complete Drilling: **07-07-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **16.50 ft**
At Completion of Drilling: ▼ **20.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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FILE NAME = Q:\Engineering\LivePrjects2005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\xWO162H38-sht-BORING LOG NDB 10-12.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 ':' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 10–12
US ROUTE 14

SCALE: | SHEET S-12 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	66
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			

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BORING LOG NDB-13

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 638.01 ft
North: 1959764.25 ft
East: 1102840.06 ft
Station: 123+12.409
Offset: LT 22.762

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	637.8	3-inch thick, ASPHALT						
	637.0	--PAVEMENT--						
		9-inch thick, SANDY GRAVEL						
		--BASE COURSE--						
		Stiff to hard, brown to gray SILTY CLAY, trace gravel			1	4 2 3	2.00 P	18
			5		2	4 7 10	> 4.50 P	17
					3	3 7 8	> 4.50 P	20
		--Sand lenses--						
		--Sand and silt lenses--	10		4	3 4 4	2.00 P	11
					5	3 4 4	1.64 B	21
	624.3							
	624.0	4-inch thick, gray, coarse SAND			6	2 4 3	2.00 P	19
		--Wet--	15					
	622.5	Very stiff, gray SILTY CLAY, trace gravel						
		Medium dense, gray SILT to SILTY LOAM			7	4 6 6	NP	20
		--Saturated--			8	5 6 6	NP	19
			20					
					9	6 8 9	NP	20
			25		10	4 4 8	NP	21

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	612.5	Medium dense to dense, gray fine SANDY LOAM						
		--Saturated--			11	2 5 6	NP	22
		--Wet--	30		12	11 20 22	NP	15
	606.3	Very dense, gray SILTY LOAM						
		--Moist--						
	603.0	Boring terminated at 35.00 ft	35		13	15 26 32	NP	17
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **07-06-2015** Complete Drilling: **07-06-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **13.67 ft**
At Completion of Drilling: ▼ **23.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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BORING LOG NDB-14

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 640.27 ft
North: 1959670.64 ft
East: 1102849.33 ft
Station: 124+05.27
Offset: LT 7.686

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.5	9-inch thick, ASPHALT						
	639.0	--PAVEMENT--						
		6-inch thick, CONCRETE						
		--PAVEMENT--						
	637.0	Very stiff, brown SILTY CLAY			1	3 2 3	3.00 P	22
		--FILL--						
		Stiff to hard, brown to gray SILTY CLAY, trace gravel	5		2	2 4 4	3.36 B	21
					3	5 7 11	5.33 B	18
			10		4	4 5 7	3.28 B	18
					5	3 4 5	1.48 B	20
			15		6	2 3 4	1.56 B	25
	623.4							
		Loose, gray SILT			7	2 4 4	1.15 B	19
		--Saturated--			8	3 3 3	NP	26
			20					
					9	2 2 3	NP	21
	618.4	Soft, gray SILTY CLAY, silt lenses	25		10	2 2 2	0.25 B	25

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	614.8	Medium dense, gray SILTY LOAM						
		--Wet--			11	3 7 8	NP	19
	612.8	Boring terminated at 27.50 ft	30					
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **07-02-2015** Complete Drilling: **07-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **16.83 ft**
At Completion of Drilling: ▼ **24.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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BORING LOG NDB-15

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.21 ft
North: 1959572.13 ft
East: 1102893.26 ft
Station: 125+15.587
Offset: LT 12.354

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, ASPHALT						
	640.0	--PAVEMENT--						
		Very stiff, brown and gray SILTY CLAY			1	4 6 5	3.50 P	19
	638.0	--FILL--						
		Stiff to hard, brown to gray SILTY CLAY, trace gravel	5		2	4 6 6	5.00 B	18
					3	5 6 10	6.56 B	17
			10		4	6 9 11	7.05 B	17
					5	3 6 8	3.94 B	19
			15		6	3 4 5	1.50 P	26
	624.7							
	624.5	3-inch thick, gray, fine SAND						
		--Wet--			7	3 9 9	5.17 B	16
		Hard, gray SILTY CLAY						
	622.4	Medium dense, gray SILTY LOAM			8	3 4 6	NP	23
	621.2	--Saturated--	20					
		Boring terminated at 20.00 ft						
			25					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **07-02-2015** Complete Drilling: **07-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **18.83 ft**
At Completion of Drilling: ▼ **18.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGINC 491203.GPJ WANGENG.GDT 10/26/15

FILE NAME = O:\Engineering\LiveProjects\2000S_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\GIV\WO162H38-sht-BORING LOG NDB 13-15.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 13–15
US ROUTE 14

SCALE: | SHEET S-13 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	67
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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BORING LOG NDB-16

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.55 ft
North: 1959492.31 ft
East: 1102946.15 ft
Station: 126+13.952
Offset: LT 11.455

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.9	8-inch thick, ASPHALT --PAVEMENT--						
	640	7-inch thick, CONCRETE --PAVEMENT--						
	639.8	Stiff, brown SILTY CLAY, trace gravel --FILL--		1	4 2 3	1.25 P	18	
		Stiff to hard, brown to gray SILTY CLAY, trace gravel	5	2	4 5 5	5.17 B	18	
				3	5 7 10	6.56 B	18	
			10	4	5 8 10	5.00 B	15	
				5	4 5 7	2.13 B	17	
			15	6	3 4 5	1.97 B	24	
	626.0	Medium dense, gray SILT --Moist--		7	6 9 9	NP	16	
		--Sand lenses-- --Dry--		8	4 7 9	NP	18	
	621.5	Boring terminated at 20.00 ft	20					
			25					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **07-02-2015** Complete Drilling: **07-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG NDB-17

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.70 ft
North: 1959425.52 ft
East: 1103014.69 ft
Station: 127+12.151
Offset: LT 11.287

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.0	8-inch thick, ASPHALT --PAVEMENT--						
	640.5	6-inch thick, CONCRETE --PAVEMENT--						
		Stiff, black and gray SILTY CLAY, trace gravel and roots --FILL--		1	4 3 6	1.50 P	20	
	638.5	Medium stiff to hard, brown and gray to brown SILTY CLAY, trace gravel	5	2	3 2 3	1.31 S	26	
				3	2 1 3	0.82 B	23	
			10	4	4 11 15	6.72 B	18	
		--Sand lenses--		5	5 8 11	6.81 B	18	
	628.7	Stiff to very stiff, gray CLAY	15	6	3 5 7	3.69 B	24	
		--Dry silt lenses--		7	4 8 8	1.15 B	21	
	623.7	Loose to medium dense, gray SILT --Saturated--	20	8	2 2 4	NP	24	
		--Trace sand lenses--		9	1 2 4	NP	20	
		--Trace sand lenses--	25	10	2 3 3	NP	22	

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	614.2	Boring terminated at 27.50 ft		11	4 4 6		NP	25
			30					
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **07-02-2015** Complete Drilling: **07-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **18.00 ft**
At Completion of Drilling: ▼ **20.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

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BORING LOG NDB-18

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.58 ft
North: 1959374.56 ft
East: 1103107.12 ft
Station: 128+19.334
Offset: LT 18.714

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.8	8-inch thick, ASPHALT --PAVEMENT--						
	640.4	6-inch thick, CONCRETE --PAVEMENT--						
	639.8	Stiff, black and gray SILTY CLAY --FILL--		1	7 4 5	1.50 P	27	
	638.3	Stiff, black SILTY CLAY LOAM, trace organic matter --BURIED TOPSOIL--	5	2	3 2 2	0.57 B	22	
		Medium stiff to very stiff, brown to gray SILTY CLAY, trace gravel		3	2 4 6	2.87 B	21	
			10	4	3 6 7	4.35 B	19	
				5	7 6 9	3.53 B	19	
			15	6	4 4 7	2.46 B	22	
	626.6	Boring terminated at 15.00 ft						
			20					
			25					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **07-06-2015** Complete Drilling: **07-06-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineer-Impl\Jdavis\Projects\220005_IDOT DVR\WO 11 - 62H38\CADD\CADD Sheets\GINT\62H38-sht-BORING LOG NDB 16-18.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/" / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – NDB 16–18
US ROUTE 14

SCALE: | SHEET S-14 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	68
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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BORING LOG RWB-01

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.85 ft
North: 1960153.69 ft
East: 1102207.82 ft
Station: 115+25.221
Offset: RT 42.288

Elevation (ft)	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
642.3						
641.9						
			1	PUSH	NP	24
			2	PUSH	2.29 S	18
	5		3	PUSH	8.60 S	17
			4	PUSH	> 4.50 P	15
635.4			5	PUSH	2.25 P	17
	10					
	15					
	20					
	25					

19-inch thick, dark brown SILTY LOAM, trace roots
--TOPSOIL--
--Damp--
Brown SILTY LOAM
--Damp--
Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace to little gravel
Boring terminated at 8.50 ft

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **S&J** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG RWB-02

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.32 ft
North: 1960142.32 ft
East: 1102247.01 ft
Station: 115+67.755
Offset: RT 44.65

Elevation (ft)	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
641.5						
640.8						
			1	PUSH	NP	34
			2	PUSH	3.63 S	20
	5		3	PUSH	4.01 B	19
			4	PUSH	7.26 B	19
633.3	10		5	PUSH	6.88 B	18
	15					
	20					
	25					

22-inch thick, dark brown SILTY LOAM
--TOPSOIL--
--Damp--
Brown SILTY LOAM
--Damp--
Very stiff to hard, brown to gray SILTY CLAY LOAM, trace gravel
Boring terminated at 10.00 ft

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **S&J** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG RWB-03

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.44 ft
North: 1960117.21 ft
East: 1102313.55 ft
Station: 116+42.084
Offset: RT 50.301

Elevation (ft)	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
641.2						
			1	PUSH	NP	37
			2	PUSH	2.67 B	20
	5		3	PUSH	0.76 B	29
			4	PUSH	4.01 B	19
	10		5	PUSH	4.20 B	20
			6	PUSH	2.87 B	22
630.4						
	15					
	20					
	25					

15-inch thick, dark brown SILTY LOAM, trace roots
--TOPSOIL--
--Damp--
Medium stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel
Boring terminated at 12.00 ft

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **S&J** Logger: **DK & AH** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\2000s_IDOT DIR\WO 11 - 62N38\CADD\CADD Sheets\GINT\62N38-sht-BORING LOG RWB 1-3.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – RWB 1–3
US ROUTE 14

SCALE: | SHEET S-16 OF S-25 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	69
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

Wang Engineering
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Fax: 630 953-9938

BORING LOG RWB-04

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.59 ft
North: 1960081.29 ft
East: 1102385.22 ft
Station: 117+26.266
Offset: RT 58.837

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.9	Stiff, brown and gray SILTY CLAY LOAM, trace gravel		PUSH	1	PUSH	1.72 B	17
	638.1	Brown SANDY LOAM, trace gravel --Wet--		PUSH	2	PUSH	NP	17
		Very stiff to hard, brown to gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --Seams of fine sand-- --L_L(%)=27, P_I(%)=16-- --%Gravel=2.7-- --%Sand=21.2-- --%Silt=57.5-- --%Clay=18.6-- --A-6 (6)--	5	PUSH	3	PUSH	3.20 B	11
				PUSH	4	PUSH	3.44 B	16
			10	PUSH	5	PUSH	10.12 B	18
	630.6	--Seams of fine sand--		PUSH	6	PUSH	3.92 S	20
		Boring terminated at 12.00 ft	15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **S&J** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **2.50 ft**
At Completion of Drilling: **10.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG RWB-06

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.44 ft
North: 1960219.65 ft
East: 1102340.28 ft
Station: 116+35.862
Offset: LT 55.385

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.7	Black SILTY LOAM --TOPSOIL--		PUSH	1	PUSH	NP	33
		Stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel --Wet, possible sand lens--		PUSH	2	PUSH	3.06 S	16
			5	PUSH	3	PUSH	4.78 S	17
				PUSH	4	PUSH	3.25 S	17
	633.4		10	PUSH	5	PUSH	4.78 S	17
		Boring terminated at 10.00 ft	15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **S&J** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **2.00 ft**
At Completion of Drilling: **9.50 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\2000s_IDOT DUR\WO 11 - 62N38\CADD\CADD Sheets\GINT\62H38-sht-BORING LOG RWB 4-6.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – RWB 4–6
US ROUTE 14

SCALE: | SHEET S-15 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	70
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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BORING LOG RWB-07

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.13 ft
North: 1960197.74 ft
East: 1102410.43 ft
Station: 117+05.463
Offset: LT 58.483

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.6	18-inch thick, black SILTY LOAM --TOPSOIL-- --Dry--		PUSH	1		NP	41
		Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		PUSH	2		4.01 S	16
		--L_L(%)=38, P_I(%)=18-- --%Gravel=1.3-- --%Sand=12.3-- --%Silt=50.3-- --%Clay=36.1-- --A-6 (17)-- --Wet, seams of fine sand--	5	PUSH	3		1.53 B	23
				PUSH	4		2.29 B	25
	633.6	Gray SILTY LOAM	10	PUSH	5		4.20 B	20
	632.6	--Wet-- Hard, gray SILTY CLAY, trace gravel		PUSH	6		4.20 B	16
	631.1	Boring terminated at 12.00 ft	15					
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	06-26-2015	Complete Drilling	06-26-2015	While Drilling ▽	6.00 ft
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling ▼	8.00 ft
Driller	S&J	Logger	A. Happel	Time After Drilling	NA
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Checked by	B. Wilson	Depth to Water ▽	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG RWB-08

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WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.99 ft
North: 1960189.62 ft
East: 1102449.98 ft
Station: 117+42.822
Offset: LT 66.278

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black SILTY LOAM, trace roots --TOPSOIL-- --Dry--		PUSH	1		NP	27
	641.1	Medium stiff to hard, brown and gray to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		PUSH	2		0.96 S	18
			5	PUSH	3		3.63 B	20
				PUSH	4		5.92 S	18
			10	PUSH	5		8.60 B	18
				PUSH	6		6.78 B	18
	631.0	Boring terminated at 12.00 ft	15					
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	06-26-2015	Complete Drilling	06-26-2015	While Drilling ▽	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA	At Completion of Drilling ▼	DRY
Driller	S&J	Logger	A. Happel	Time After Drilling	NA
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Checked by	B. Wilson	Depth to Water ▽	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG RWB-09

Wang Engineering
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Lombard, IL 60148
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Fax: 630 953-9938

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 643.11 ft
North: 1959938.66 ft
East: 1102648.04 ft
Station: 120+46.99
Offset: 63.45 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.6	6-inch thick, dark brown SILTY LOAM --TOPSOIL--		PUSH	1		NP	10
	641.1	Brown SILTY LOAM, trace gravel Hard, brown to gray SILTY CLAY, trace gravel		PUSH	2		> 4.50 P	15
			5	PUSH	3		7.07 B	16
				PUSH	4		8.12 B	18
			10	PUSH	5		8.21 B	19
				PUSH	6		7.54 B	17
	629.1	Boring terminated at 14.00 ft		PUSH	7		6.97 B	18
			15					
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-21-2015	Complete Drilling	08-21-2015	While Drilling ▽	DRY
Drilling Contractor	Wang Engineering Inc.	Drill Rig	Geoprobe HA	At Completion of Drilling ▼	DRY
Driller	B&H	Logger	D. Kolpacki	Time After Drilling	NA
Drilling Method	1" IDA Pneumatic Geoprobe LB Sampler	Checked by	B. Wilson	Depth to Water ▽	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects2005_DOT DMR\WO 11 - 62H38\CADD\CADD Sheets\GrWO11G2H38-sht-BORING LOG RWB 7-9.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – RWB 7–9
US ROUTE 14

SCALE: | SHEET S-17 OF S-25 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	71
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

Wang Engineering
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BORING LOG RWB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 642.78 ft
North: 1959954.03 ft
East: 1102620.11 ft
Station: 120+09.30
Offset: 69.16 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.9	10-inch thick, dark brown SILTY LOAM						
		--TOPSOIL--			1	PUSH	NP	16
		Brown SILTY LOAM						
	639.3				2	PUSH	> 4.50 P	9
		Hard, brown SILTY CLAY, trace gravel	5		3	PUSH	> 4.50 P	17
					4	PUSH	8.88 B	13
	633.8				5	PUSH	> 4.50 P	17
		Boring terminated at 9.00 ft	10					
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **08-25-2015** Complete Drilling: **08-25-2015**
Drilling Contractor: **Wang Engineering Inc.** Drill Rig: **Geoprobe HA**
Driller: **B&D** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG RWB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 642.95 ft
North: 1959896.01 ft
East: 1102672.51 ft
Station: 121+04.86
Offset: 75.50 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.7	Brown SILTY LOAM, trace gravel						
		--FILL--			1	PUSH	NP	22
	641.2	Dark brown SILTY LOAM						
		--BURIED TOPSOIL--						
		Very stiff, brown SILTY CLAY, trace gravel			2	PUSH	2.87 S	18
	638.9							
		Brown SILTY LOAM	5		3	PUSH	NP	13
					4	PUSH	NP	13
	634.9							
		Hard, brown to gray SILTY CLAY, trace gravel			5	PUSH	5.92 B	18
			10					
					6	PUSH	6.21 B	17
	630.9							
		Boring terminated at 12.00 ft						
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **08-21-2015** Complete Drilling: **08-21-2015**
Drilling Contractor: **Wang Engineering Inc.** Drill Rig: **Geoprobe HA**
Driller: **B&H** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGNC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\2000s_IDOT DIR\WO 11 - 62H38\CADD\CADD Sheets\GINT\62H38-sht-BORING LOG RWB 10-11.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – RWB 10–11
US ROUTE 14

SCALE: | SHEET S-16 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	72
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

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BORING LOG SDB-01

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 644.92 ft
North: 1960213.92 ft
East: 1101778.13 ft
Station: 110+87.594
Offset: RT 17.957

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	644.6	4-inch thick, ASPHALT --PAVEMENT--						
	643.9	8-inch thick, CONCRETE --PAVEMENT--						
	643.2	6-inch thick, gray and brown CRUSHED STONE --BASE COURSE--						
	641.7	Hard (4.0 P), black SILTY CLAY LOAM --BURIED TOPSOIL-- --Dry--	5	1	4 3 6	NP	5	
				2	2 2 3	1.07 B	22	
		Stiff to hard, gray and brown to gray SILTY CLAY LOAM to SILTY LOAM, trace gravel --Seams of fine sand-- --L_L(%)=26, P_L(%)=17-- --%Gravel=6.4-- --%Sand=27.5-- --%Silt=55.5-- --%Clay=10.6-- --A-4 (4)-- --No recovery--	10	3	2 3 3	2.62 B	21	
				4	2 4 7	4.10 B	19	
				5	4 4 8	NA		
	629.9	Boring terminated at 15.00 ft	15	6	4 6 8	2.54 B	19	
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	06-11-2015	Complete Drilling	06-11-2015	While Drilling	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	DRY
Driller	K&K	Logger	A. Happel	Time After Drilling	NA
Drilling Method	2.25 IDA HSA; Backfilled upon completion	Checked by	B. Wilson	Depth to Water	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG SDB-02

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 644.57 ft
North: 1960204.31 ft
East: 1101859.53 ft
Station: 111+68.147
Offset: RT 18.177

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	644.2	4-inch thick, ASPHALT --PAVEMENT--						
	643.7	6-inch thick, CONCRETE --PAVEMENT--						
	641.6	Loose, gray and brown CRUSHED STONE --BASE COURSE--		1	2 3 5	NP	7	
		Stiff to very stiff, gray and brown SILTY CLAY to SILTY CLAY LOAM, trace gravel --Seams of fine sand--	5	2	WOH WOH 3	1.56 B	20	
				3	WOH WOH 4	1.64 B	23	
		--Seams of fine sand--	10	4	WOH WOH 3	1.64 B	24	
				5	4 6 8	2.13 B	17	
	629.6	Boring terminated at 15.00 ft	15	6	2 3 6	2.21 B	19	
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	06-11-2015	Complete Drilling	06-11-2015	While Drilling	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	DRY
Driller	K&K	Logger	A. Happel	Time After Drilling	NA
Drilling Method	2.25 IDA HSA; Backfilled upon completion	Checked by	B. Wilson	Depth to Water	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG SDB-03

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 643.30 ft
North: 1960198.79 ft
East: 1101935.73 ft
Station: 112+43.675
Offset: RT 20.375

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	643.0	4-inch thick, ASPHALT --PAVEMENT--						
	642.8	8-inch thick, CONCRETE --PAVEMENT--						
	642.3	4-inch thick, gray and brown CRUSHED STONE --BASE COURSE--		1	2 1 3	1.50 P	4	
		Medium stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --Dry-- --Seam of sand--	5	2	2 2 1	0.50 P	26	
				3	4 5 5	1.50 P	20	
			10	4	5 9 13	2.87 B	19	
				5	3 6 10	3.28 B	19	
	628.3	Boring terminated at 15.00 ft	15	6	2 3 6	2.25 P	17	
			20					
			25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	06-11-2015	Complete Drilling	06-11-2015	While Drilling	DRY
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	DRY
Driller	K&K	Logger	A. Happel	Time After Drilling	NA
Drilling Method	2.25 IDA HSA; Backfilled upon completion	Checked by	B. Wilson	Depth to Water	NA

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\20005_IDOT DuPAWO 11 - 62H38\C4D\C4DD\Sheets\GINT\62H38-plt-BORING LOG SDB 1-3.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 1–3
US ROUTE 14

SCALE: | SHEET S-17 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	73
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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Fax: 630 953-9938

BORING LOG SDB-06

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 637.16 ft
North: 1960189.91 ft
East: 1102172.85 ft
Station: 114+83.098
Offset: RT 13.062

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	636.2	12-inch thick, ASPHALT --PAVEMENT--						
		Medium stiff to hard, gray SILTY CLAY, trace gravel			1	2 4 4	4.59 B	18
			5		2	5 7 10	0.95 B	20
					3	4 5 7	2.95 B	19
		--Seams of fine sand-- --L_L(%)=36, P_L(%)=16-- --%Gravel=1.9-- --%Sand=9.6-- --%Silt=54.6-- --%Clay=33.9-- --A-6 (17)--	10		4	3 4 5	1.64 B	22
					5	2 2 9	2.62 B	29
	624.2	Medium dense, gray SILTY LOAM, trace gravel --Wet--	15		6	4 5 9	NP	18
					7	5 5 8	NP	17
	618.2	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	20		8	2 3 4	1.64 B	15
					9	9 10 12	2.62 B	16
			25		10	8 12 13	4.50 P	16
	611.7	Very dense, gray SANDY LOAM --Dry--			11	5 27 45	NP	13
		--Moist--	30		12	27 43 48	NP	14
	605.4	Hard, gray SILTY CLAY LOAM, trace gravel			13	6 9 15	5.14 B	18
	597.2	Boring terminated at 40.00 ft	40		14	9 15 23	5.74 B	16
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-11-2015** Complete Drilling: **06-11-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **13.00 ft**
At Completion of Drilling: ▼ **15 ft (Cave in)**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

BORING LOG SDB-07

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.10 ft
North: 1960168.98 ft
East: 1102306.38 ft
Station: 116+19.053
Offset: RT 3.096

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.3	9-inch thick, ASPHALT --PAVEMENT--						
	630.4	5-inch thick, CONCRETE --PAVEMENT--						
		6-inch thick, CRUSHED STONE --BASE COURSE--			1	9 4 4	NA	18
		Stiff to very stiff, gray SILTY CLAY, trace gravel	5		2	2 3 5	1.89 B	25
	624.9	Loose to medium dense, gray SILT --Moist--			3	2 2 3	2.13 B	21
			10		4	2 3 5	NP	22
		--Wet-- --%Gravel=0.1-- --%Sand=1.3-- --%Silt=92.8-- --%Clay=5.8-- --A-4 (0)--			5	1 2 7	NP	26
			15		6	4 6 5	NP	19
	615.6	Medium dense, gray SANDY LOAM --Moist--			7	5 7 10	NP	11
	614.1	Dense, gray SILT --Dry--	20		8	13 20 25	NP	14
	611.6	Hard, gray SILTY CLAY LOAM, trace gravel			9	6 11 15	8.20 B	13
			25		10	8 12 16	6.64 B	14
	604.1	Gray, coarse SAND			11	16 28 18	7.13 B	12
	603.1	--Saturated-- Hard, gray SILTY CLAY LOAM, trace gravel	30		12	11 10 16	> 4.50 P	17
	601.6	Dense, gray, medium to coarse SAND, little gravel			13	13 18 15	NP	12
	599.8	--Saturated-- Hard, gray SILTY CLAY LOAM, trace gravel	35		14	21 28 35	0.00 S	10
					15	12 17 22	6.23 B	11
	592.1	Boring terminated at 40.00 ft	40		16	6 18 22	5.99 B	16
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-15-2015** Complete Drilling: **06-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **B. Wilson** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **35.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

BORING LOG SDB-08

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 628.71 ft
North: 1960130.13 ft
East: 1102399.05 ft
Station: 117+19.999
Offset: RT 8.441

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	628.0	8-inch thick, ASPHALT --PAVEMENT--						
	627.6	5-inch thick, CONCRETE --PAVEMENT--						
	625	Medium dense, gray CRUSHED STONE --BASE COURSE--			1	8 8 6	NP	7
		Medium dense, gray SILT --Moist--	5		2	9 7 10	NP	16
					3	2 6 8	NP	17
	620.7	Medium stiff to hard, gray SILTY CLAY LOAM, trace gravel	10		4	2 3 3	0.74 B	17
					5	2 3 4	0.98 B	16
			15		6	6 8 15	4.59 B	13
	611.5	Gray SILT			7	7 10 29	5.90 B	17
	610.7	--Dry-- Hard, gray SILTY CLAY LOAM, trace gravel	20		8	9 9 15	7.54 B	13
					9	6 10 15	6.97 B	13
			25		10	5 9 15	5.74 B	16
	598.7	Boring terminated at 30.00 ft	30		11	9 12 16	8.20 B	15
			35		12	7 11 18	7.05 B	15
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-15-2015** Complete Drilling: **06-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **B. Wilson** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

FILE NAME = O:\Engineering\LiveProjects\2000S_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\GINT\BD162H38-sht-BORING LOG SDB 6-8.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 6–8
US ROUTE 14

SCALE: | SHEET S-18 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	74
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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Fax: 630 953-9938

BORING LOG SDB-09

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.67 ft
North: 1960099.48 ft
East: 1102467.10 ft
Station: 117+95.052
Offset: RT 8.295

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	627.2	6-inch thick, ASPHALT --PAVEMENT--						
	626.7	6-inch thick, CONCRETE --PAVEMENT--						
	625.4	Medium dense, brown SANDY GRAVEL --BASE COURSE-- --Dry--			1	7 8 11	NP	10
		Stiff to very stiff, gray SILTY CLAY, trace gravel	5		2	6 4 5	1.56 B	14
					3	2 3 5	2.38 B	14
			10		4	2 3 5	1.23 B	16
					5	5 9 8	1.80 B	13
	614.7	Medium dense, gray SANDY GRAVEL --Wet--	15		6	8 12 14	NP	12
	612.2	Very dense, gray SILT to SILTY LOAM --Moist--			7	20 29 49	NP	18
		--Saturated--	20		8	19 60/5"	NP	14
	607.2	Hard, gray SILTY CLAY LOAM, trace gravel			9	12 18 28	6.40 B	12
	602.7	Boring terminated at 25.00 ft	25		10	31 44 37	>4.50 P	9

GENERAL NOTES

Begin Drilling: **06-16-2015** Complete Drilling: **06-16-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **13.00 ft**
At Completion of Drilling: ▼ **14.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

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BORING LOG SDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.52 ft
North: 1960011.24 ft
East: 1102616.51 ft
Station: 119+70.091
Offset: RT 23.415

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	627.1	5-inch thick, ASPHALT --PAVEMENT--						
	626.4	8-inch thick, CONCRETE --PAVEMENT--			1	2 4 4	NP	19
	625.8	3-inch thick, CRUSHED STONE --BASE COURSE--						
	624.5	Loose, gray SANDY LOAM, trace gravel --Moist--	5		2	4 6 6	NP	19
		Loose to medium dense, gray SILTY LOAM, trace gravel --Moist--			3	4 4 4	NP	21
			10		4	2 4 5	NP	15
	617.0	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel			5	3 6 10	2.46 B	14
			15		6	3 6 9	5.25 B	18
	612.0	Medium dense, gray SILTY LOAM, trace gravel --Dry--			7	8 12 15	NP	13
	608.5	Hard, gray SILTY CLAY LOAM,			8	6 14 14	7.79 S	13
	607.5	trace gravel	20					
		Boring terminated at 20.00 ft	25					

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

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BORING LOG SDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 629.17 ft
North: 1959966.81 ft
East: 1102675.92 ft
Station: 120+49.11
Offset: RT 23.88

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	628.4	4-inch thick, ASPHALT --PAVEMENT--						
	628.0	8-inch thick, CONCRETE --PAVEMENT--			1	2 2 2	1.64 B	25
	626.2	Stiff, gray CLAY, trace gravel						
		Medium dense, gray SILTY LOAM --Dry--	5		2	6 7 8	NP	16
	622.7	Medium dense, gray SANDY LOAM to SAND, trace gravel --Wet--			3	5 6 6	NP	17
			10		4	3 8 8	NP	13
	617.2	Stiff, gray SILTY CLAY LOAM to LOAM, trace gravel			5	5 6 8	NP	24
			15		6	3 11 11	1.50 P	16
	613.7	Very dense, gray SILTY LOAM, trace gravel --Wet--			7	8 24 26	NP	14
			20		8	12 26 25	NP	15
	607.9	Medium dense, gray LOAM, trace gravel --Moist--			9	19 16 13	NP	15
	606.2	Hard, gray SILTY CLAY LOAM, trace gravel			10	7 10 14	6.15 B	15
	604.2	Boring terminated at 25.00 ft	25					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491020J.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LiveProjects\2005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Gint\WO162H38-drh-BORING LOG SDB 9-11.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 ':" / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 9–11
US ROUTE 14

SCALE: | SHEET S-19 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	75
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

Wang Engineering
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BORING LOG SDB-12

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.99 ft
North: 1959887.84 ft
East: 1102747.46 ft
Station: 121+62.079
Offset: RT 19.205

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	632.7	4-inch thick, ASPHALT						
	632.0	--PAVEMENT--						
	631.8	8-inch thick, CONCRETE						
		--PAVEMENT--						
		2-inch thick, CRUSHED STONE						
		--BASE COURSE--						
		Stiff to very stiff, gray SILTY CLAY, trace gravel			1	2 2 3	3.28 B	19
			5		2	2 2 4	1.89 B	18
					3	3 4 6	1.50 P	19
	625.0	Very stiff, gray CLAY, trace gravel						
			10		4	2 3 3	2.13 B	23
	622.5	Loose to medium dense, gray SILTY LOAM						
		--Moist--			5	2 3 4	NP	23
			15		6	4 5 7	NP	19
					7	4 6 5	NP	21
	615.0	Medium dense, gray SANDY LOAM						
		--Wet--	20		8	4 6 5	NP	21
	612.5	Hard, gray SILTY CLAY LOAM, trace gravel						
					9	5 8 12	6.48 B	16
			25		10	6 8 12	10.25 S	13
	603.0	Boring terminated at 30.00 ft	30		11	5 9 13	7.95 S	13
					12	4 11 16	5.90 S	10
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **18.00 ft**
At Completion of Drilling: ▼ **DRY**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

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BORING LOG SDB-13

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 636.33 ft
North: 1959802.19 ft
East: 1102787.09 ft
Station: 122+61.408
Offset: RT 18.383

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	635.3	12-inch thick, ASPHALT						
		--PAVEMENT--						
		Very stiff to hard, gray SILTY CLAY LOAM, trace gravel			1	3 4 6	3.69 B	18
			5		2	4 5 7	4.10 B	18
					3	3 4 7	3.61 B	21
	628.3	Medium stiff, gray CLAY						
			10		4	2 2 5	0.90 B	25
	624.8	Medium dense, gray SILTY LOAM			5	6 6 6	NP	17
	623.3	--Moist--						
		Stiff, gray SILTY CLAY LOAM, trace gravel	15		6	3 3 4	1.39 B	23
	620.8	Medium dense, gray SILTY LOAM						
		--Wet--			7	2 4 6	NP	23
			20		8	4 5 5	NP	22
					9	0 6 10	NP	23
	612.3	Medium dense, gray, medium to coarse SAND, trace gravel	25		10	5 8 7	NP	23
		--Wet--			11	7 8 10	NP	26
	606.6		30		12	6 6 8	NP	20
	606.3	Hard, gray SILTY CLAY LOAM (Qu-4.5 tsf)						
		Boring terminated at 30.00 ft						
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **13.00 ft**
At Completion of Drilling: ▼ **22.00 ft**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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BORING LOG SDB-14

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 639.67 ft
North: 1959682.31 ft
East: 1102820.53 ft
Station: 123+86.584
Offset: RT 17.154

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	639.2	6-inch thick, ASPHALT						
		--PAVEMENT--						
	638.7	10-inch thick, CONCRETE						
		--PAVEMENT--						
		3-inch thick, CRUSHED STONE						
		--BASE COURSE--						
		Medium stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			1	4 4 5	4.50 P	18
			5		2	6 8 8	0.75 P	15
					3	7 9 11	3.53 B	16
			10		4	4 4 9	4.43 B	18
					5	2 4 5	1.80 B	21
	626.7	Very stiff, gray CLAY, trace gravel	15		6	2 4 6	3.36 B	26
	624.2	Stiff, gray SILTY CLAY LOAM, trace gravel			7	3 4 5	1.89 B	15
			20		8	3 3 4	1.39 B	23
	619.2	Loose to medium dense, gray SILTY LOAM						
		--Wet--			9	2 2 3	NP	22
			25		10	3 6 8	NP	20
	611.7	Medium dense to very dense, gray coarse SAND, some gravel			11	7 8 7	NP	19
		--Wet--	30		12	30 19 10	NP	10
	605.2	Boring terminated at 34.50 ft			13	11 50/5"	NP	15
			35					
			40					
			45					
			50					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\Projects\2005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-BORING LOG SDB 12-14.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '=' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 12–14
US ROUTE 14

SCALE: | SHEET S-20 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	76
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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

BORING LOG SDB-15

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 640.99 ft
North: 1959607.29 ft
East: 1102849.68 ft
Station: 124+65.195
Offset: RT 12.176

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.0	12-inch thick, ASPHALT --PAVEMENT--						
	639.3	8-inch thick, CONCRETE --PAVEMENT--						
		Medium stiff to hard, brown to gray SILTY CLAY, trace gravel			1	3 3 5	2.54 B	20
			5		2	2 3 4	0.74 B	33
					3	4 8 11	5.00 B	19
			10		4	4 5 8	3.20 B	19
					5	5 7 8	2.75 P	17
			15		6	4 11 11	3.00 P	18
					7	4 5 7	3.53 B	23
		--Silt and sand lenses--						
	623.0	Medium dense, gray SILT --Wet--						
	621.0	Boring terminated at 20.00 ft	20		8	2 4 6	NP	21
			25					

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG SDB-16

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.58 ft
North: 1959522.45 ft
East: 1102896.50 ft
Station: 125+60.01
Offset: RT 10.347

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.5	13-inch thick, ASPHALT --PAVEMENT--						
	639.7	9-inch thick, CONCRETE --PAVEMENT--						
		Stiff to hard, brown to gray SILTY CLAY, trace gravel			1	4 4 4	1.50 P	14
			5		2	2 7 9	5.00 B	19
					3	6 8 14	7.46 B	18
			10		4	7 10 12	2.50 P	17
					5	6 7 9	3.53 B	18
			15		6	4 4 8	2.05 B	23
	628.1	Medium dense, gray SILT to SILTY LOAM --Wet--			7	4 9 10	NP	16
		--Dry--						
	621.6	Boring terminated at 20.00 ft	20		8	5 8 17	NP	15
			25					

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG SDB-17

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.85 ft
North: 1959443.20 ft
East: 1102960.56 ft
Station: 126+59.831
Offset: RT 11.292

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	640.8	13-inch thick, ASPHALT --PAVEMENT--						
	640.0	9-inch thick, CONCRETE --PAVEMENT--						
		Stiff to very stiff, black, gray and brown SILTY CLAY --FILL--			1	4 3 3	2.50 P	23
			5		2	1 1 1	1.00 P	32
	636.4	Stiff to hard, brown to gray SILTY CLAY, trace gravel			3	2 3 5	3.36 B	22
			10		4	4 7 12	4.92 B	18
					5	5 7 8	2.79 B	19
			15		6	3 4 4	1.15 B	22
	624.6	Medium dense, gray SILT --Wet--			7	7 7 11	3.69 B	17
		--Sand lenses--						
	621.9	Boring terminated at 20.00 ft	20		8	15 6 7	NP	22
			25					

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\LivePrjects\2005_IDOT DUR\WO 11 - 62H38\CAD\C4DD\Sheets\xrWO162H38-sht-BORING LOG SDB 15-17.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 2:0.0000 '' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 15–17
US ROUTE 14

SCALE: | SHEET S-21 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	77
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			

Wang Engineering
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Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SDB-18

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.06 ft
North: 1959368.64 ft
East: 1103046.68 ft
Station: 127+70.551
Offset: RT 17.225

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.06		13-inch thick, ASPHALT					
	641.0		--PAVEMENT--					
	640.3		8-inch thick, CONCRETE					
			--PAVEMENT--					
			Stiff, gray SILTY CLAY, trace gravel		1	5 4 3	1.00 P	18
	638.8		--FILL--					
5			Very stiff to hard, brown to gray SILTY CLAY, trace gravel		2	3 4 7	3.00 P	20
					3	5 7 10	4.76 B	19
10					4	5 7 9	6.23 B	19
					5	4 9 9	4.02 B	19
15					6	4 5 7	2.79 B	22
	624.8				7	4 5 8	3.12 B	22
	624.1		Gary, coarse SAND					
			--Saturated--					
			Medium dense, gray SILT		8	2 4 6	NP	24
			--Saturated--					
20	622.1		Boring terminated at 20.00 ft					
25								

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **17.25 ft**
At Completion of Drilling: **15.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

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Fax: 630 953-9938

BORING LOG SDB-19

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 641.58 ft
North: 1959292.43 ft
East: 1103174.87 ft
Station: 129+19.498
Offset: RT 17.391

Depth (ft)	Elevation (ft)	Profile	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	641.16		6-inch thick ASPHALT					
	640.8		--PAVEMENT--					
			6-inch thick CONCRETE					
			--PAVEMENT--		1	5 4 5	1.50 P	20
	635.6		Stiff, black, brown and gray SILTY CLAY					
			--FILL--					
5			Medium stiff to hard, brown to gray SILTY CLAY, trace gravel		2	2 2 3	0.98 B	19
					3	2 2 2	0.90 B	25
10					4	3 4 7	4.35 B	19
					5	5 7 11	5.17 B	18
15	625.6				6	4 4 7	2.62 B	21
			Boring terminated at 15.00 ft					
20								
25								

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = Q:\Engineering\Live\Projects\2005_IDOT DUR\WO 11 - 62H38\CADD\CADD\ Sheets\civil\D162H38-sht-BORING LOG SDB 18-19.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 20.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 18–19
US ROUTE 14

SCALE: | SHEET S-22 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	78
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

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

BORING LOG SDB-20

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.13 ft
North: 1959216.95 ft
East: 1103305.40 ft
Station: 130+70.263
Offset: RT 15.765

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.1	5-inch thick, ASPHALT --PAVEMENT--						
	641.8	8-inch thick, CONCRETE --PAVEMENT--						
		Loose, black SILTY LOAM, trace organic matter			1	4 3 4	NP	36
	638.9	--BURIED TOPSOIL--						
		Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel	5		2	3 6 9	2.05 S	15
					3	4 7 9	5.82 S	17
	632.1		10		4	5 7 10	4.26 B	18
		Boring terminated at 10.00 ft						
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

BORING LOG SDB-21

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 642.58 ft
North: 1959140.39 ft
East: 1103431.19 ft
Station: 132+17.515
Offset: RT 17.48

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	642.1	6-inch thick, ASPHALT --PAVEMENT--						
	641.8	6-inch thick, CONCRETE --PAVEMENT--			1	3 4 3	NP	32
	639.6	Loose, black SILTY LOAM, trace organic matter --BURIED TOPSOIL--						
		Loose, brown and gray SILTY LOAM	5		2	2 4 5	NP	22
	637.1	--Moist-- --%Gravel=1.7-- --%Sand=10.3-- --%Silt=73.2-- --%Clay=14.8--			3	2 5 8	4.26 S	18
		Hard, brown SILTY CLAY, trace gravel						
	632.6		10		4	7 10 12	6.56 B	18
		Boring terminated at 10.00 ft						
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **07-01-2015** Complete Drilling: **07-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 491023.GPJ WANGENG.GDT 10/26/15

FILE NAME = O:\Engineering\LiveProjects\2005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\GINT\WO162H38-sht-BORING LOG SDB 20-21.dgn

Accurate GROUP, INC.

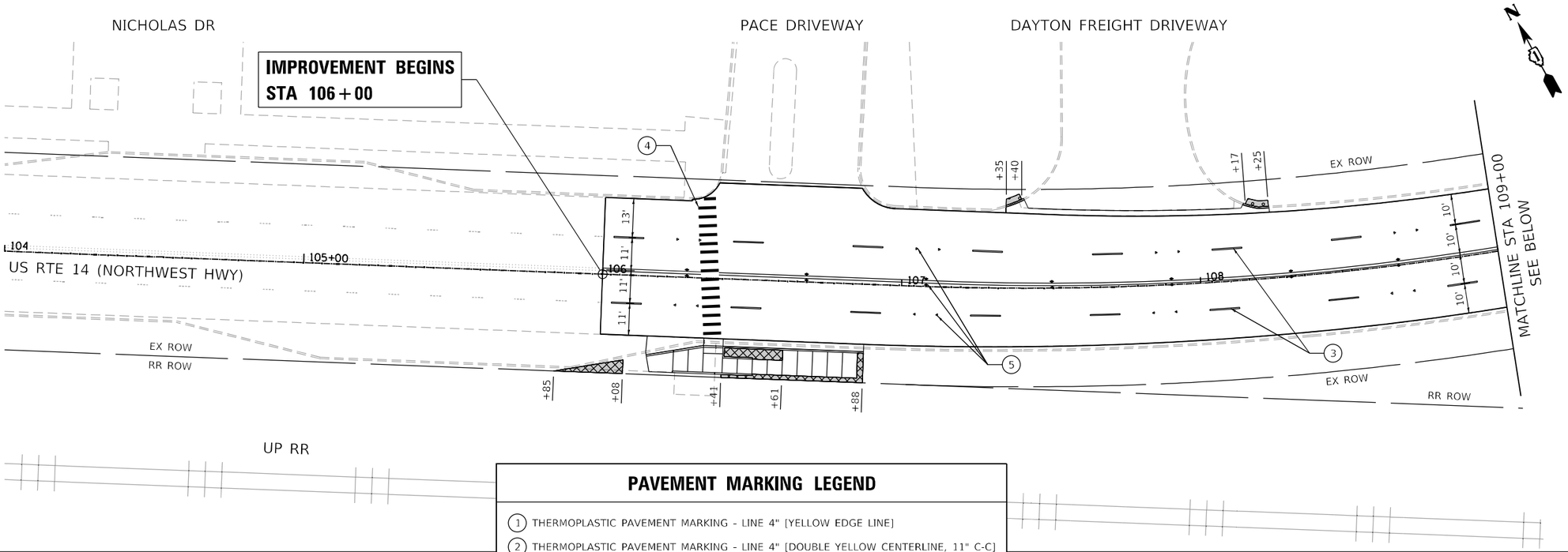
USER NAME = jdavis	DESIGNED - JMT	REVISED -	
	DRAWN - JMT	REVISED -	
PLOT SCALE = 20.0000 '/ in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – SDB 20–21
US ROUTE 14

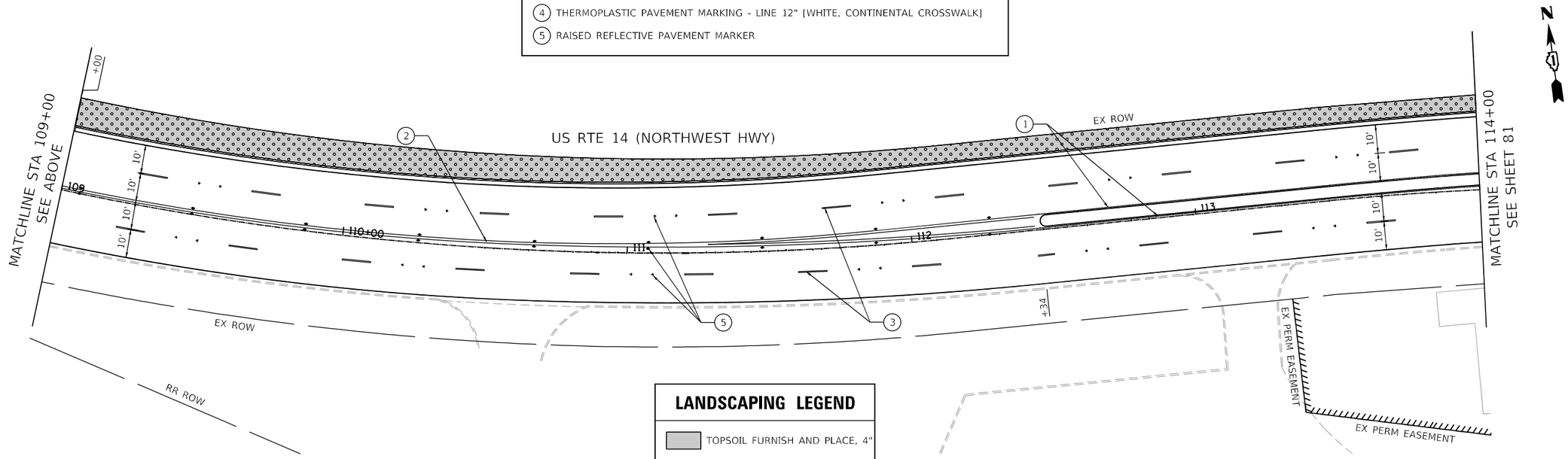
SCALE: | SHEET S-23 OF S-23 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	79
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [YELLOW EDGE LINE]
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [DOUBLE YELLOW CENTERLINE, 11" C-C]
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [WHITE 30' SKIP 10' DASH]
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12" [WHITE, CONTINENTAL CROSSWALK]
5. RAISED REFLECTIVE PAVEMENT MARKER



LANDSCAPING LEGEND

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- SODDING, SALT TOLERANT

FILE NAME = Q:\Engineering\LiveProjects\2005_IDOT DUR\WO 11 - 62N38\CADD\CADD Sheets\GM\D1621N38-ath-pmlt-1.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JJD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

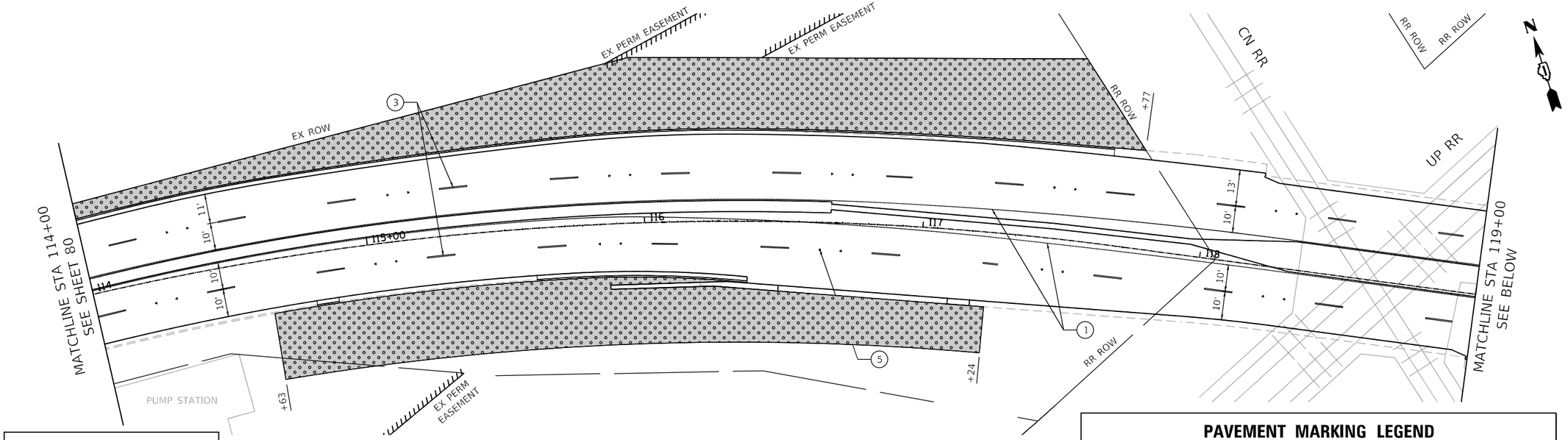
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLAN
US ROUTE 14

SCALE: 1"=20' | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	80
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

US RTE 14 (NORTHWEST HWY)

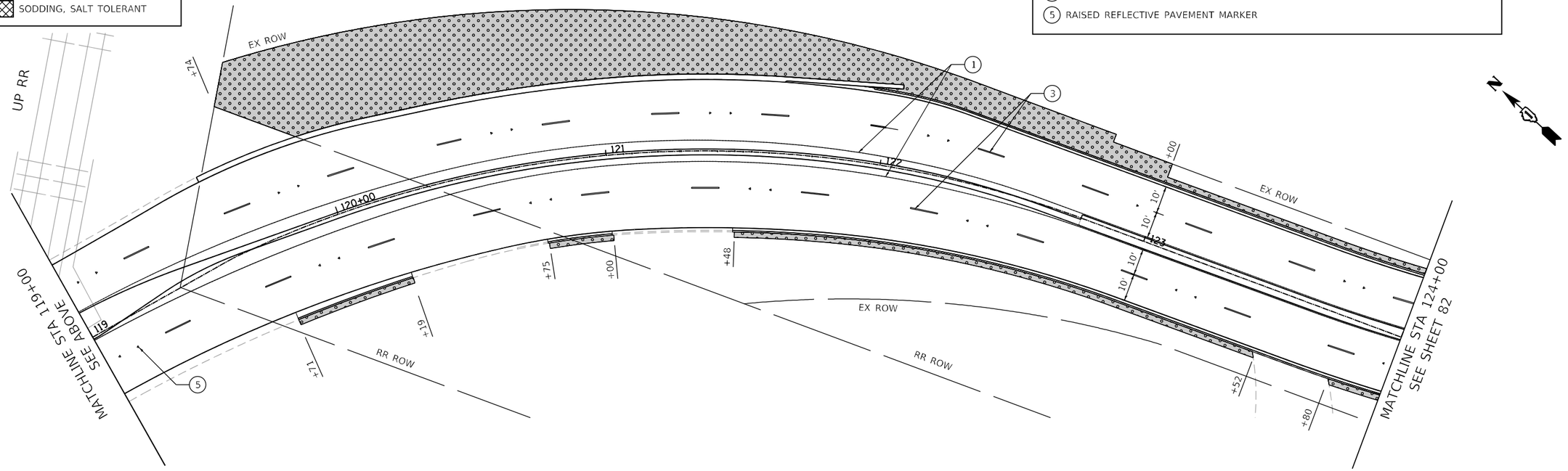


LANDSCAPING LEGEND

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- SODDING, SALT TOLERANT

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [YELLOW EDGE LINE]
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [DOUBLE YELLOW CENTERLINE, 11" C-C]
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [WHITE 30' SKIP 10' DASH]
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12" [WHITE, CONTINENTAL CROSSWALK]
5. RAISED REFLECTIVE PAVEMENT MARKER



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Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -
	DRAWN - DW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

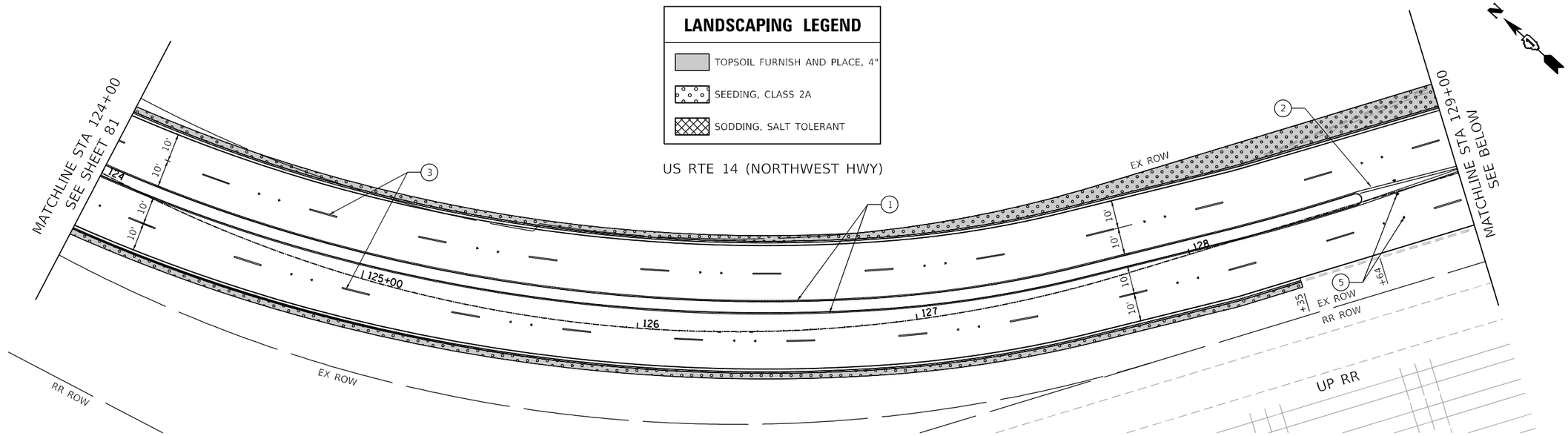
PAVEMENT MARKING AND LANDSCAPING PLAN
US ROUTE 14

SCALE: 1"=20' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	81
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		

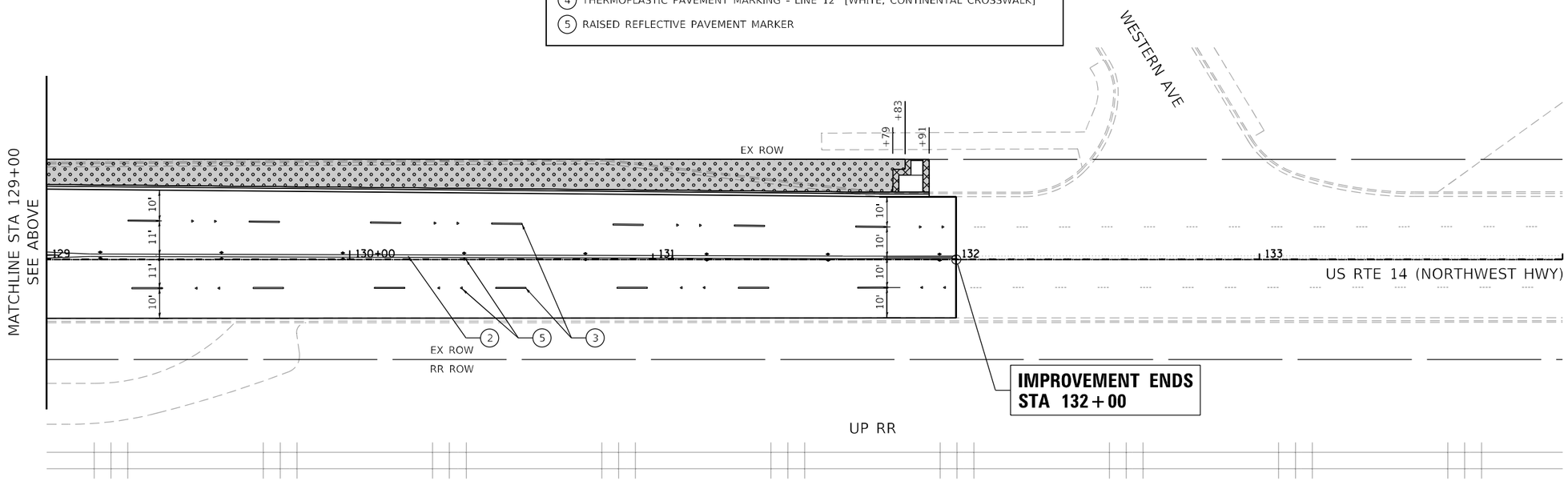
LANDSCAPING LEGEND

- TOPSOIL FURNISH AND PLACE, 4"
- SEEDING, CLASS 2A
- SODDING, SALT TOLERANT



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [YELLOW EDGE LINE]
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [DOUBLE YELLOW CENTERLINE, 11" C-C]
3. THERMOPLASTIC PAVEMENT MARKING - LINE 4" [WHITE 30' SKIP 10' DASH]
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12" [WHITE, CONTINENTAL CROSSWALK]
5. RAISED REFLECTIVE PAVEMENT MARKER



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Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - DW	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJD	REVISED -	
	PLOT DATE = 10/15/2021	DATE - 10/15/2021	REVISED -	

PAVEMENT MARKING AND LANDSCAPING PLAN
US ROUTE 14

SCALE: 1"=20' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

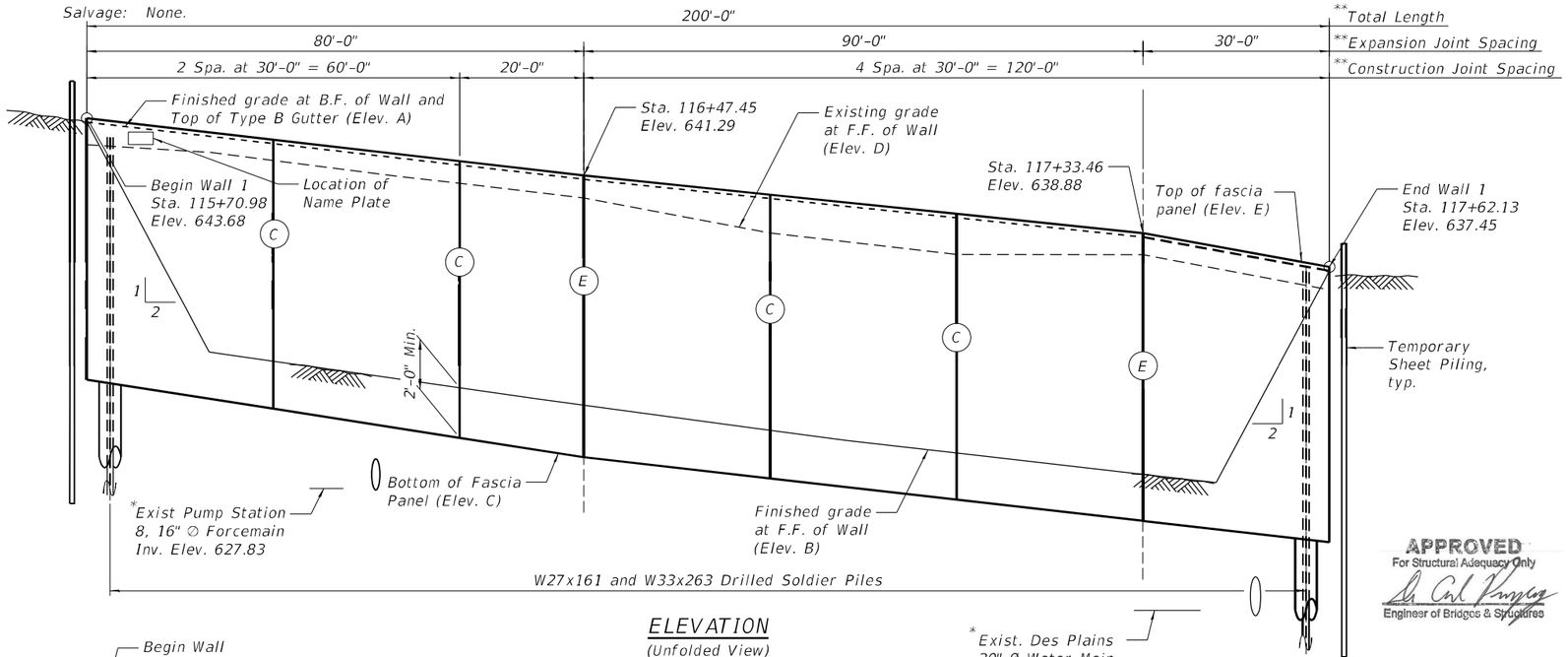
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	82
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT SVKO(134)	

Benchmark: Temp benchmark #1 set chiseled "x" on top of 6" concrete barrier curb at southeast corner of existing dayton freight parking lot adjacent to the existing pump station no. 8 elevation 643.93 (highway datum)

Existing Structure: None

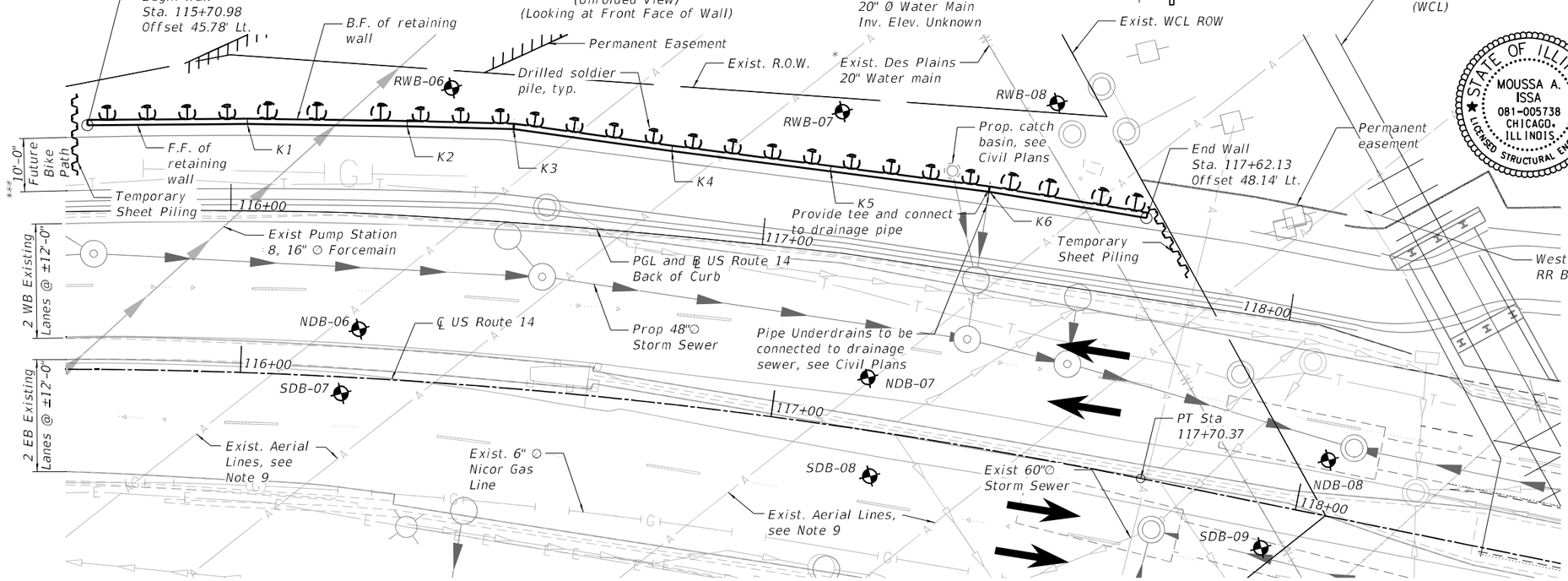
Traffic Control: Traffic will be detoured during construction.

Salvage: None.



ELEVATION

(Unfolded View)
(Looking at Front Face of Wall)



PLAN

NOTES:

1. For General Notes, Index of Sheets, Total Bill of Material, Wall Elevations Table, Scope of Work, Profile Grade Line, and Suggested Construction Sequence, see Sheet S1-02.
2. Stations and offsets are measured from the ℄ of US Route 14 to the front face of cast-in-place concrete facing.
3. "K1" denotes wall Kink Point - Number 1.
4. "C" denotes Construction Joint.
5. "E" denotes Expansion Joint.
6. "F.F." denotes Front Face.
7. "B.F." denotes Back Face.
8. See Civil Plans for Pipe Underdrain to Drainage Structure Connection details.
9. The vertical clearance between roadway level and the aerial power lines is approximately 62 feet.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

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

SOLDIER PILES

fy = 50,000 psi (M270 Grade 50)

* Depth of utility is unknown and estimated from existing documentation. Contractor shall coordinate with previous IDOT Contract 60C48 for information regarding these utilities. If information is not available, prior to construction, the Contractor shall perform exploratory excavation to locate utility.

** Measured along F.F. of Wall.

*** Bike path to be provided in separate contract. Dimensions shown for information only.

LEGEND

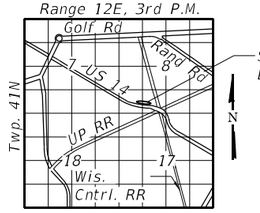
- A · Exist. Aerial Power Lines
- T – Exist. Underground Telephone
- G Exist. Underground Gas
- E – Exist. Underground Electric
- Exist. Underground Water Main
- Exist. Storm Sewer
- Prop. Storm Sewer
- Boring Location
- Prop. Catch Basin
- Exist. Manhole
- Prop. Manhole
- Exist. Light Pole
- Exist. Transmission Tower

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS
MOUSSA A. ISSA
081-005738
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E. IL. Lic. No. 081-005738
Expires 11-30-2022

Date 11/15/2021



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RETAINING WALL 1
US ROUTE 14
F.A.U. RTE. 3512
SECTION 2018-109-RS,SW&T
COOK COUNTY
STATION 115+70.98 TO 117+62.13
STRUCTURE NO. 016-9200

HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi		DESIGNED - MA, WM		REVISED -	
		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - MA, JMI		REVISED -	
PLOT DATE = 11/17/2021		DATE - 11/17/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-01 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	83
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES:

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

2. Protective Coat shall be applied to exposed surfaces of the panels.

3. Soldier piles shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer. Cost included with Furnishing Soldier Piles (W Section).

4. The Contractor shall choose a method of drilling the soldier pile shafts that is appropriate for the presence of high ground water. The Contractor shall take all necessary precautions to protect the hole from collapse and to avoid contaminating groundwater during the drilled soldier pile shaft construction operation. The Contractor is responsible for the proper containment and disposal of any contaminated groundwater spoils resulting from Contractor's means and methods. This work will not be paid for separately but shall be included in the items of work involved.

5. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the Civil Plans.

6. Wall to be built along straight cords between construction and expansion joints.

7. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.

8. Any storage of construction equipment and material behind wall is not allowed.

9. Earth excavation in front of wall shall be gradual and no more than 4'-0" of earth shall be excavated at a time in front of the wall. The elevation difference between adjacent excavated areas in front of wall shall not vary more than 6'-0" over a distance of 50'-0" as measured along the length of the wall.

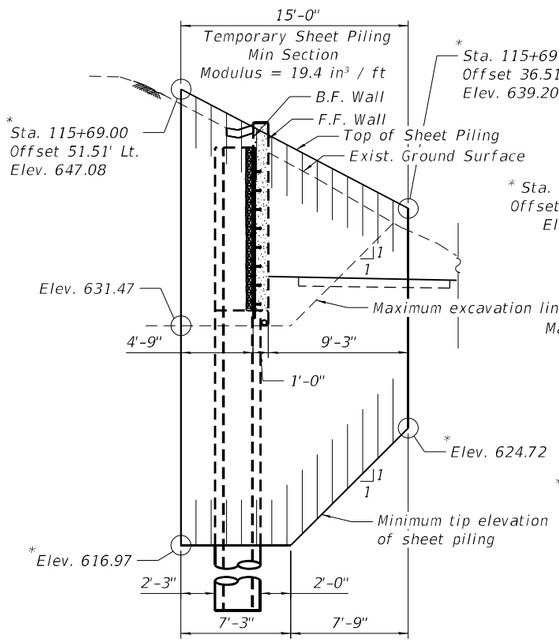
10. The Contractor shall exercise extreme caution in drilling and setting the soldier piles under the Aerial Power Lines. The Contractor is responsible to coordinate with the utilities to deenergize these lines if required. The Contractor shall make necessary adjustments to the splice lengths of the soldier piles and to the auguring equipment to maintain adequate clearance to the Aerial Power Lines as specified in OSHA safety requirements.

INDEX OF SHEETS

S1-01 General Plan and Elevation
S1-02 General Notes, Index of Sheets & Total Bill of Material
S1-03 Plan and Elevation (Sta. 115+70.98 to Sta. 116+47.45)
S1-04 Plan and Elevation (Sta. 116+47.45 to Sta. 117+33.46)
S1-05 Plan and Elevation (Sta. 117+33.46 to Sta. 117+62.13)
S1-06 Wall Cross Sections and Details (Sheet 1 of 2)
S1-07 Wall Cross Sections and Details (Sheet 2 of 2)
S1-08 Pile Splice Details
S1-09 Boring Logs (Sheet 1 of 5)
S1-10 Boring Logs (Sheet 2 of 5)
S1-11 Boring Logs (Sheet 3 of 5)
S1-12 Boring Logs (Sheet 4 of 5)
S1-13 Boring Logs (Sheet 5 of 5)

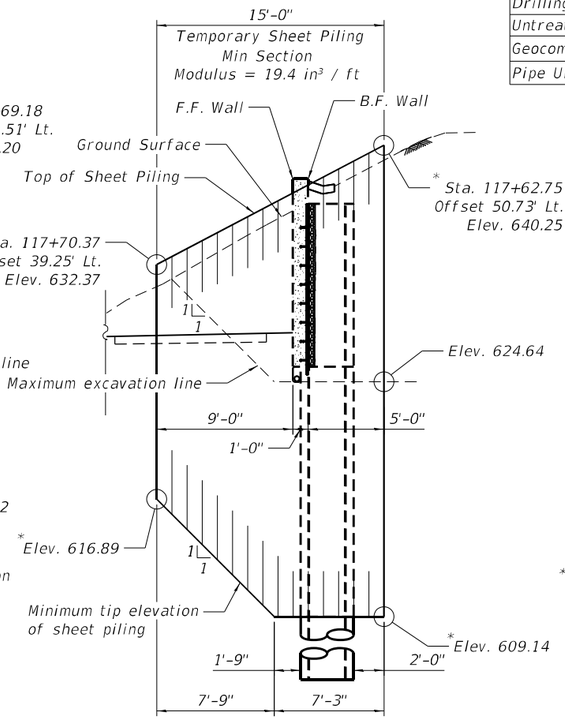
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	291
Structure Excavation	CU YD	270
Concrete Structures	CU YD	89
Stud Shear Connectors	EACH	588
Reinforcement Bars, Epoxy Coated	POUND	10,800
Name Plates	EACH	1
Temporary Sheet Piling	SQ FT	741
Furnishing Soldier Piles (W Section)	FOOT	1,460
Drilling And Setting Soldier Piles (In Soil)	CU FT	11,428
Untreated Timber Lagging	SQ FT	2,061
Geocomposite Wall Drain	SQ YD	252
Pipe Underdrains For Structures 4"	FOOT	204



TEMPORARY SHEET PILING ELEVATION

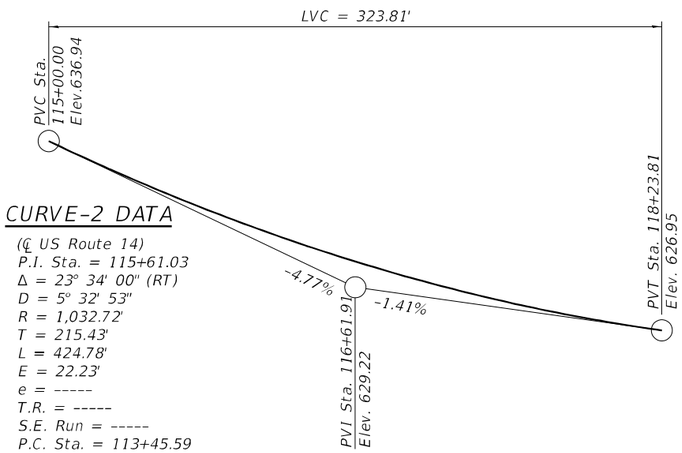
(Beginning of Wall)
(Looking East)



TEMPORARY SHEET PILING ELEVATION

(End of Wall)
(Looking West)

* The intent of the Temporary Sheet Piling is to protect the adjacent property at both ends of the wall outside of the State ROW. The Temporary Sheet Piling will be removed after completion of the wall and the soil shall be graded as shown in the Roadway Plans.



CURVE-2 DATA

(℄ US Route 14)
P.I. Sta. = 115+61.03
Δ = 23° 34' 00" (RT)
D = 5° 32' 53"
R = 1,032.72'
T = 215.43'
L = 424.78'
E = 22.23'
e = -----
T.R. = -----
S.E. Run = -----
P.C. Sta. = 113+45.59
P.T. Sta. = 117+70.37

PROFILE GRADE

(At Top of North Curb and Gutter of WB US 14)

STATION 115+70.98 TO 117+62.13
BUILT 20-- BY
STATE OF ILLINOIS
F.A.U. RTE. 3512-SEC. 2018-109-RS,SW&T
LOADING HL-93
STRUCTURE NO. 016-9200

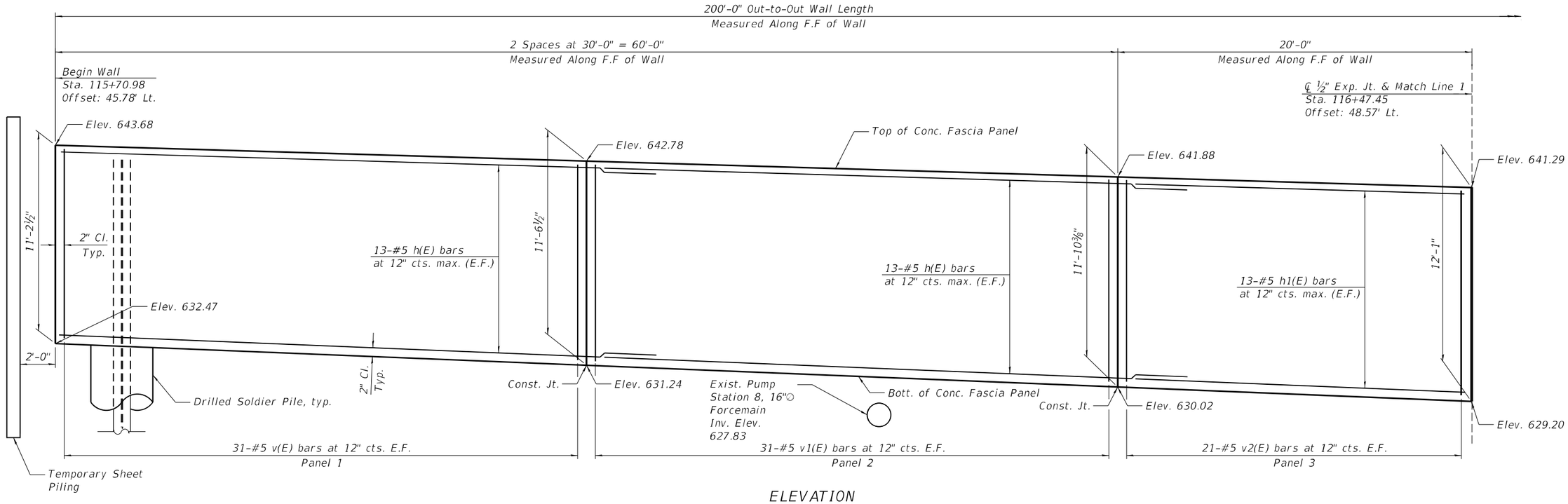
NAME PLATE

See Std. 515001

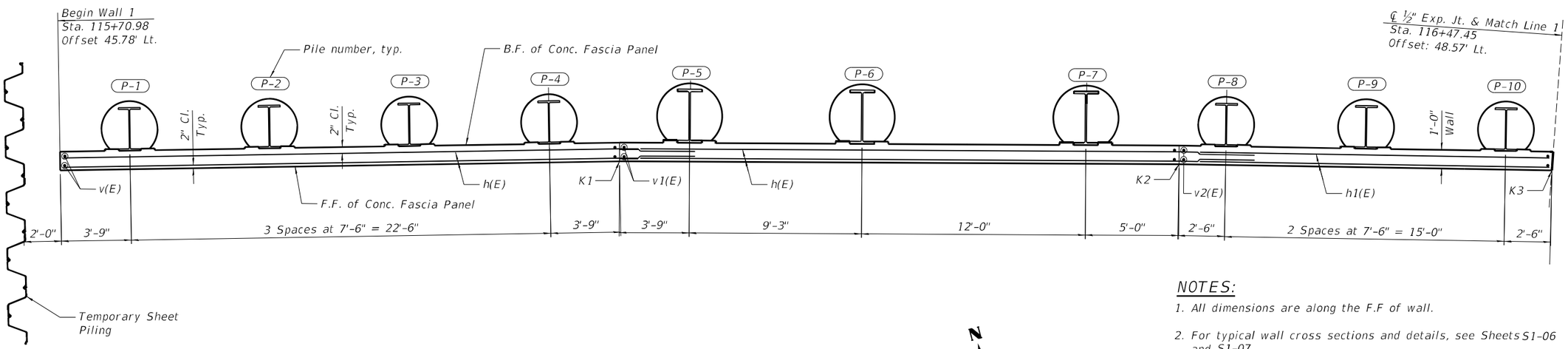
WALL ELEVATIONS TABLE

Location	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
Begin Wall	115+70.98	45.78' Lt.	643.51	643.51	632.47	642.54	643.68
K1	115+99.69	46.62' Lt.	642.61	633.28	631.24	642.23	642.78
K2	116+28.36	47.65' Lt.	641.72	632.16	630.02	641.23	641.88
K3	116+47.45	48.57' Lt.	641.12	631.43	629.20	640.32	641.29
K4	116+76.10	47.25' Lt.	640.32	630.38	628.31	638.83	640.48
K5	117+04.79	47.09' Lt.	639.51	629.42	627.42	637.94	639.68
K6	117+33.46	47.77' Lt.	638.71	628.53	626.53	637.95	638.88
End Wall	117+62.13	48.14' Lt.	637.28	637.28	625.64	636.47	637.45

Elevation A - Finished Grade at B.F of Wall and Top of Type B Gutter
Elevation B - Finished Grade at F.F of Wall
Elevation C - Bottom of Fascia Panel
Elevation D - Existing Grade at F.F of Wall
Elevation E- Top of Fascia Panel



ELEVATION
(Unfolded View)



PLAN

NOTES:

1. All dimensions are along the F.F of wall.
2. For typical wall cross sections and details, see Sheets S1-06 and S1-07.
3. For soldier pile layout, minimum bar laps, sections, details, and Bill of Material, see Sheet S1-07.
4. Station and Offset are measured along the F.F of the wall from ℄ US 14.

LEGEND

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi		DESIGNED - MA		REVISED -	
		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - MA		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 115+70.98 TO STA. 116+47.45)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-03 OF S1-13 SHEETS

F.A.U. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	85
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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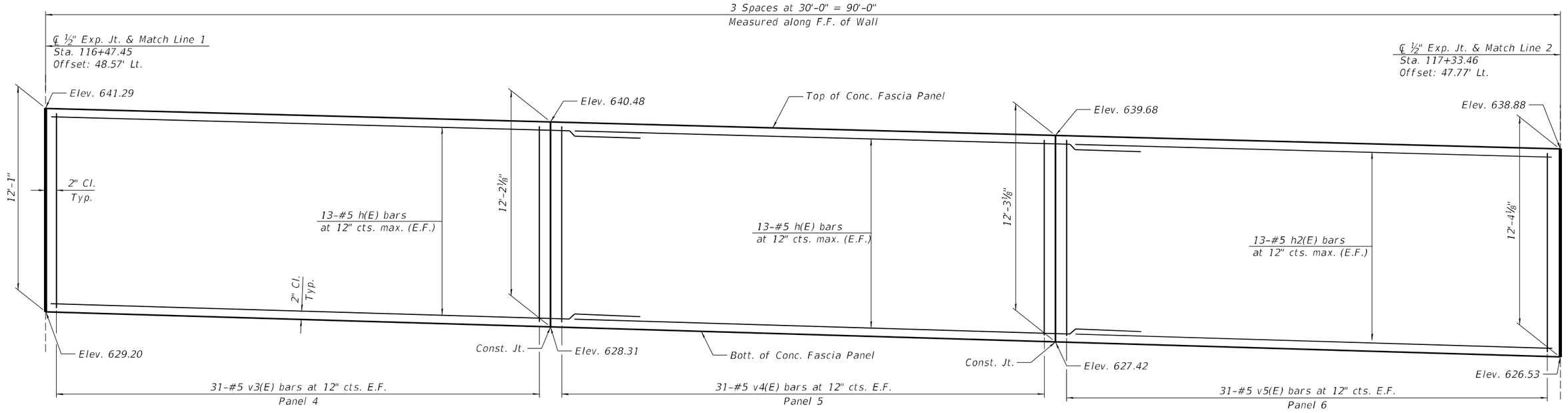
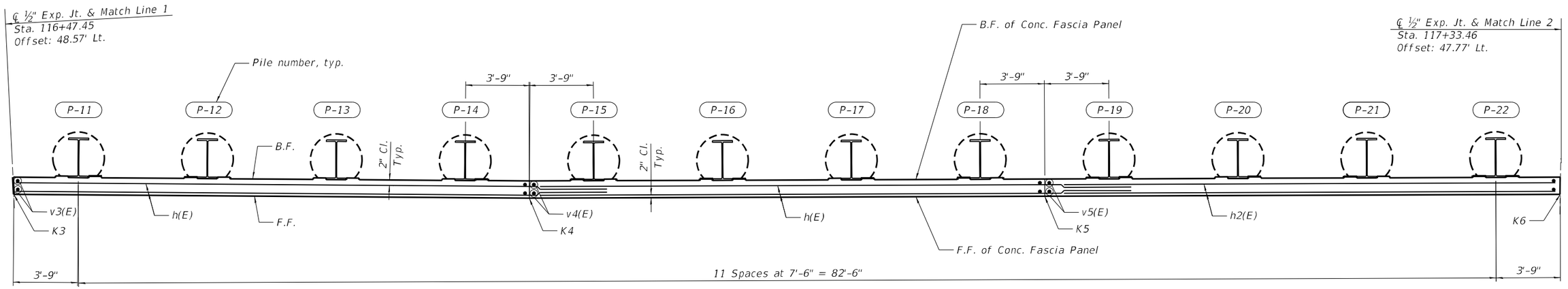


ELEVATION

(Unfolded View)



PLAN

NOTE:

1. For Notes, see Sheet S1-03.

LEGEND

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

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PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 116+47.45 TO STA. 117+33.46)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-04 OF S1-13 SHEETS

F.A.U. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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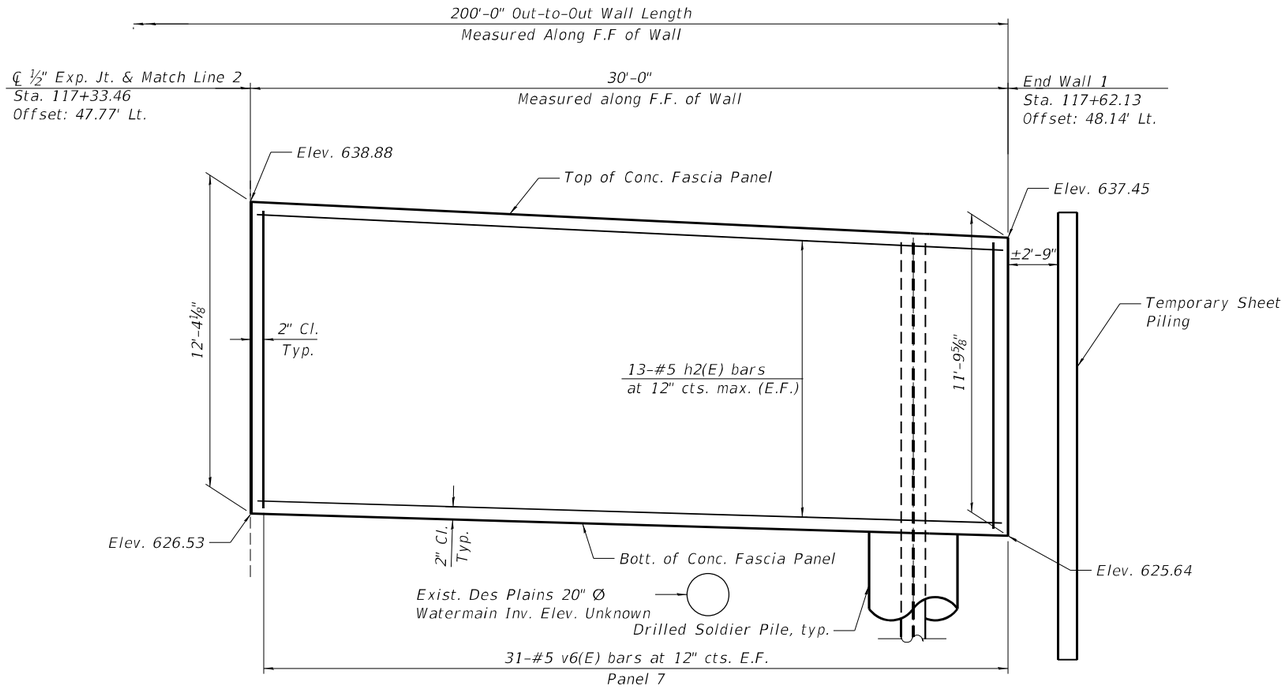
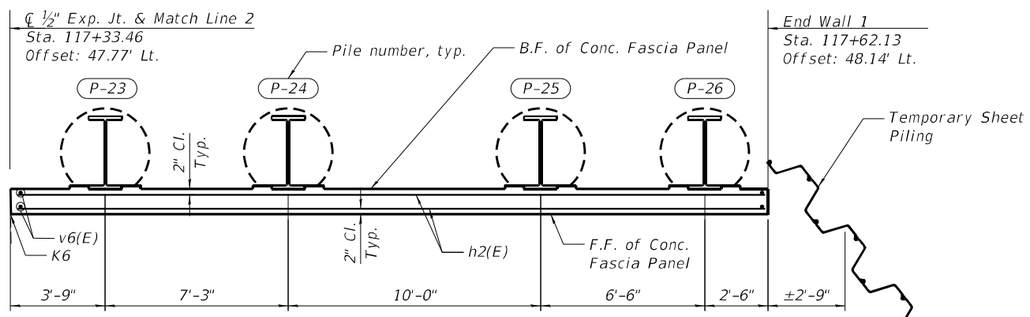
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(Unfolded View)



PLAN

NOTE:

1. For Notes, see Sheet S1-03.

LEGEND

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

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	CHECKED - MAI	REVISED -			
PLOT SCALE = NTS	DRAWN - MA	REVISED -			
PLOT DATE = 10/14/2021	DATE - 10/14/2021	REVISED -		SHEET S1-05 OF S1-13 SHEETS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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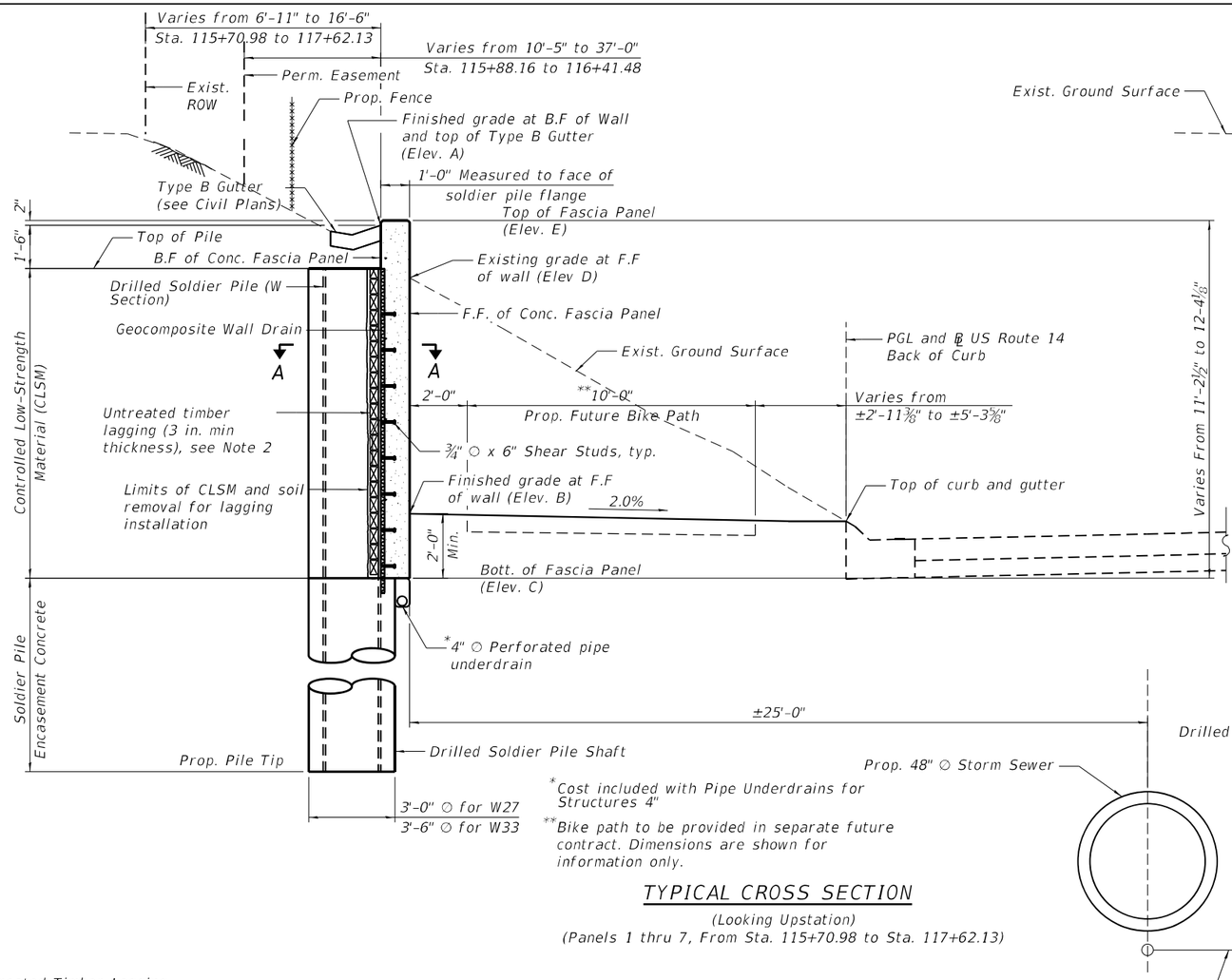
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			



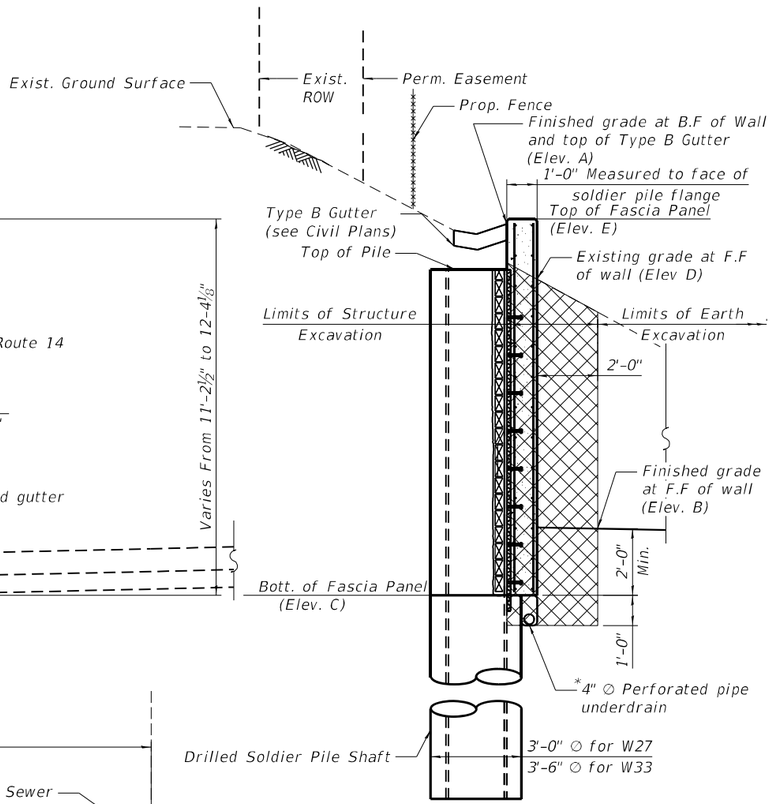
*Cost included with Pipe Underdrains for Structures 4"

**Bike path to be provided in separate future contract. Dimensions are shown for information only.

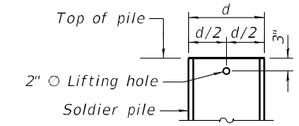
TYPICAL CROSS SECTION

(Looking Upstation)

(Panels 1 thru 7, From Sta. 115+70.98 to Sta. 117+62.13)



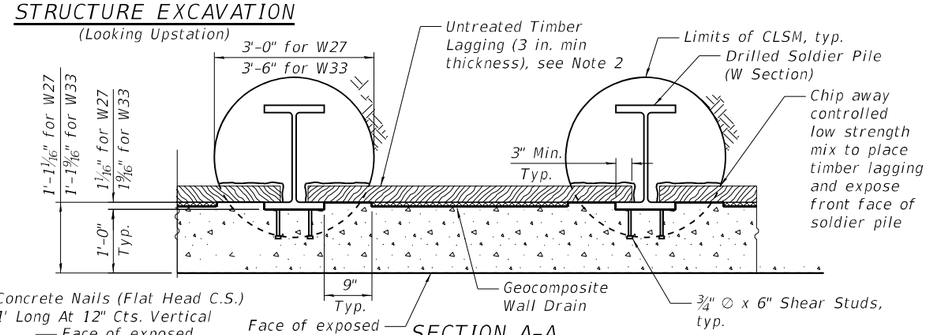
STRUCTURE EXCAVATION



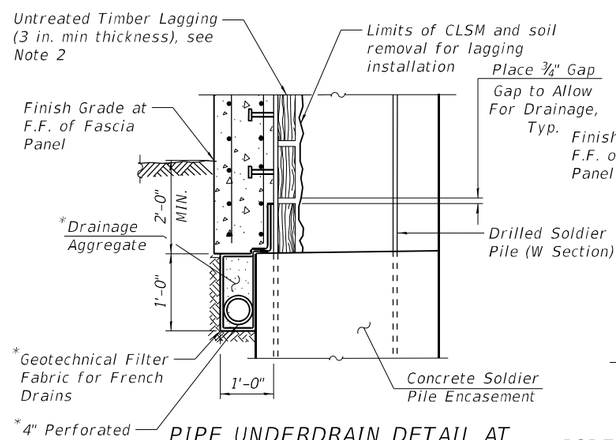
LIFTING HOLE DETAIL

NOTES:

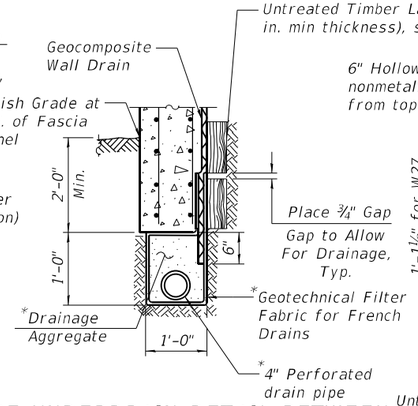
1. Structure Excavation is measured 2'-0" from front face of wall to back of soldier pile timber lagging.
2. The Contractor is responsible for the design and performance of the lagging system. For Wood Lagging, using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for approval by the Engineer.
3. The Contractor shall provide Wood Lagging parallel to wall panel between the Temporary Sheet Piling and the first adjacent pile, cost included with Furnishing Soldier Piles (W Section).
4. The geocomposite wall drain shall be placed behind the lagging with the pervious side toward the soil according to Section 591 of the Standard Specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain. Thickness shall not be greater than 1 1/16".
5. Stud shear connectors shall be ¾" Ø x 6" granular or solid flux filled headed studs, conforming to Article 1006.32 of the Standard Specifications, automatically end welded to the front flange of the soldier piles.
6. For Shear Stud Detail, see Sheet S1-07.



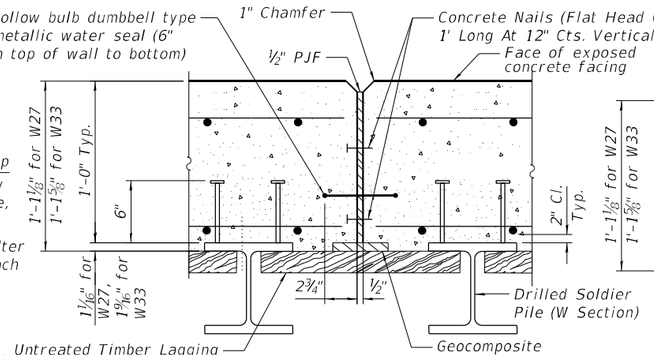
SECTION A-A



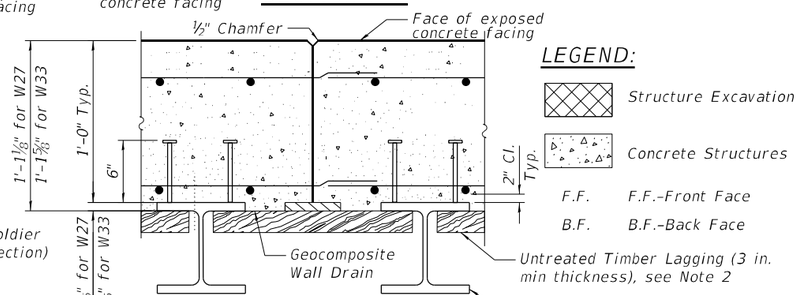
PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILE



EXPANSION JOINT DETAILS



CONSTRUCTION JOINT DETAILS

LEGEND:

- Structure Excavation
- Concrete Structures
- F.F. F.F.-Front Face
- B.F. B.F.-Back Face

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HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi		DESIGNED - JMI, WM		REVISED -	
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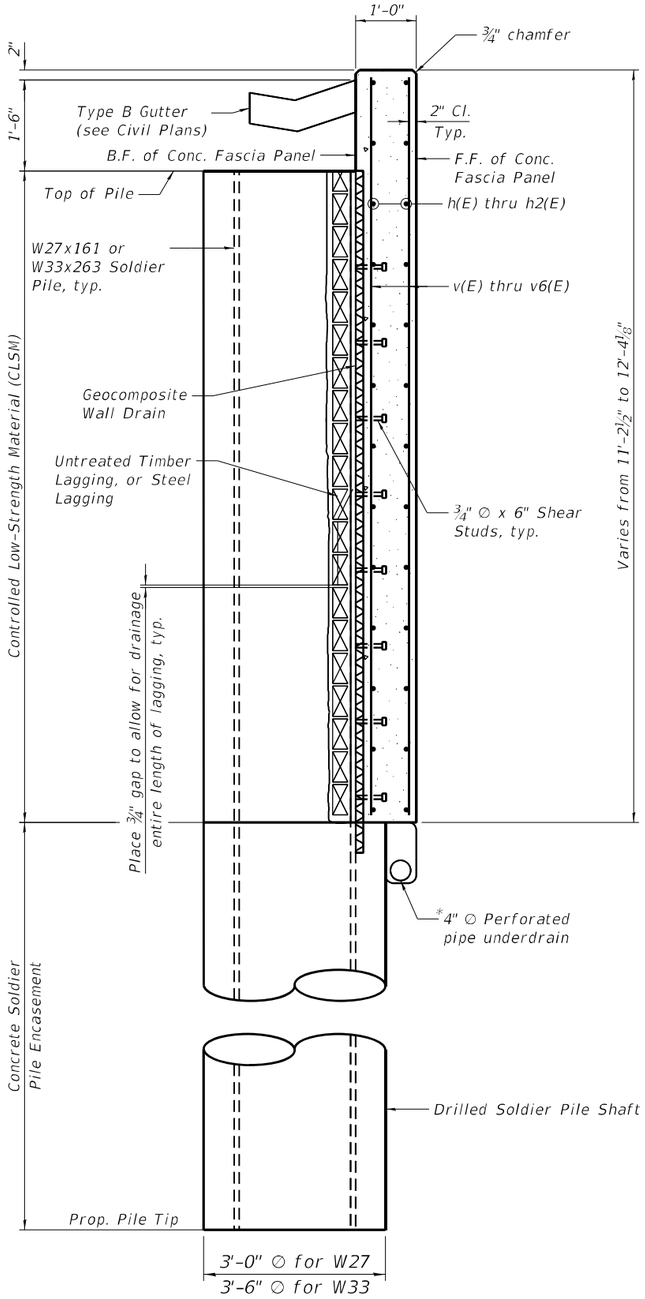
PLOT SCALE = NTS		DRAWN - WM		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS (SHEET 1 OF 2)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)

SHEET S1-06 OF S1-13 SHEETS

F.A.U. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	88
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			



TYPICAL SOLDIER PILE WALL CROSS SECTION

PILE LAYOUT

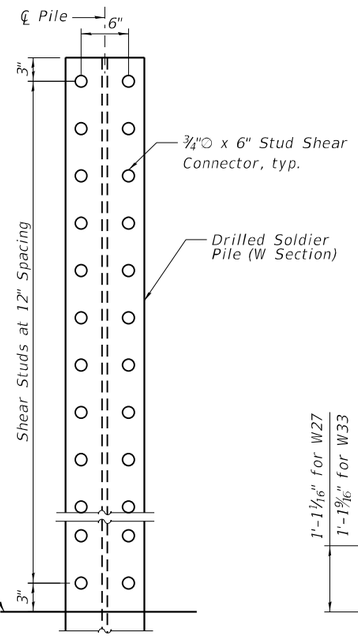
Pile	Station at Working Point	Offset	Top of Pile Elevation	Top of Encasement/ Bottom of CLSM	Section	Auger Diameter	Pile Tip Elevation	Pile Length
P-01	Sta. 115+74.54	47.99' Lt.	641.90	632.32	W27x161	3'-0"	587.90	54.00
P-02	Sta. 115+81.70	48.15' Lt.	641.67	632.01	W27x161	3'-0"	587.67	54.00
P-03	Sta. 115+88.87	48.36' Lt.	641.45	631.70	W27x161	3'-0"	587.45	54.00
P-04	Sta. 115+96.03	48.62' Lt.	641.22	631.40	W27x161	3'-0"	587.22	54.00
P-05	Sta. 116+3.22	49.15' Lt.	641.00	631.09	W33x263	3'-6"	579.00	62.00
P-06	Sta. 116+12.04	49.41' Lt.	640.72	630.71	W33x263	3'-6"	578.72	62.00
P-07	Sta. 116+23.48	49.86' Lt.	640.36	630.22	W33x263	3'-6"	578.36	62.00
P-08	Sta. 116+30.67	49.89' Lt.	640.14	629.91	W27x161	3'-0"	586.14	54.00
P-09	Sta. 116+37.82	50.21' Lt.	639.91	629.61	W27x161	3'-0"	585.91	54.00
P-10	Sta. 116+44.96	50.59' Lt.	639.69	629.30	W27x161	3'-0"	585.69	54.00
P-11	Sta. 116+51.14	50.51' Lt.	639.51	629.09	W27x161	3'-0"	585.51	54.00
P-12	Sta. 116+58.28	50.13' Lt.	639.31	628.87	W27x161	3'-0"	585.31	54.00
P-13	Sta. 116+65.43	49.80' Lt.	639.11	628.64	W27x161	3'-0"	585.11	54.00
P-14	Sta. 116+72.58	49.52' Lt.	638.91	628.42	W27x161	3'-0"	584.91	54.00
P-15	Sta. 116+79.71	49.34' Lt.	638.71	628.20	W27x161	3'-0"	584.71	54.00
P-16	Sta. 116+86.87	49.24' Lt.	638.51	627.98	W27x161	3'-0"	584.51	54.00
P-17	Sta. 116+94.03	49.20' Lt.	638.31	627.75	W27x161	3'-0"	584.31	54.00
P-18	Sta. 117+1.19	49.22' Lt.	638.11	627.53	W27x161	3'-0"	584.11	54.00
P-19	Sta. 117+8.35	49.28' Lt.	637.91	627.31	W27x161	3'-0"	583.91	54.00
P-20	Sta. 117+15.51	49.40' Lt.	637.71	627.09	W27x161	3'-0"	583.71	54.00
P-21	Sta. 117+22.66	49.57' Lt.	637.51	626.86	W27x161	3'-0"	583.51	54.00
P-22	Sta. 117+29.81	49.79' Lt.	637.31	626.64	W27x161	3'-0"	583.31	54.00
P-23	Sta. 117+37.04	50.21' Lt.	637.03	626.42	W33x263	3'-6"	575.03	62.00
P-24	Sta. 117+43.96	50.25' Lt.	636.68	626.20	W33x263	3'-6"	574.68	62.00
P-25	Sta. 117+53.49	50.38' Lt.	636.20	625.91	W33x263	3'-6"	574.20	62.00
P-26	Sta. 117+59.69	50.51' Lt.	635.89	625.71	W33x263	3'-6"	573.89	62.00

*Cost included with Pipe Underdrains for Structures 4"

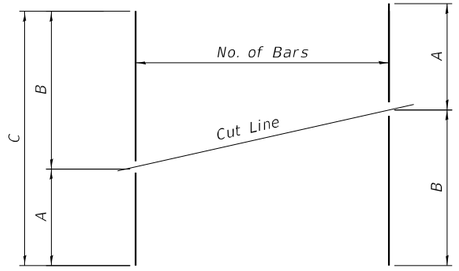
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	104	#5	33'-5"	——
h1(E)	26	#5	19'-8"	——
h2(E)	52	#5	29'-8"	——
v(E)	31	#5	22'-2"	——
v1(E)	31	#5	22'-10"	——
v2(E)	21	#5	23'-4"	——
v3(E)	31	#5	23'-7"	——
v4(E)	31	#5	23'-9"	——
v5(E)	31	#5	23'-11"	——
v6(E)	31	#5	23'-6"	——
Protective Coat			SQ YD	291
Structure Excavation			CU YD	270
Concrete Structures			CU YD	89
Stud Shear Connectors			EACH	588
Reinforcement Bars, Epoxy Coated			POUND	10,800
Furnishing Soldier Piles (W Section)			FOOT	1,460
Drilling And Setting Soldier Piles (In Soil)			CU FT	11,428
Untreated Timber Lagging			SQ FT	2,061
Geocomposite Wall Drain			SQ YD	252
Pipe Underdrains For Structures 4"			FOOT	204

Minimum Bar Lap	
Bar	Lap
#5	3'-7"

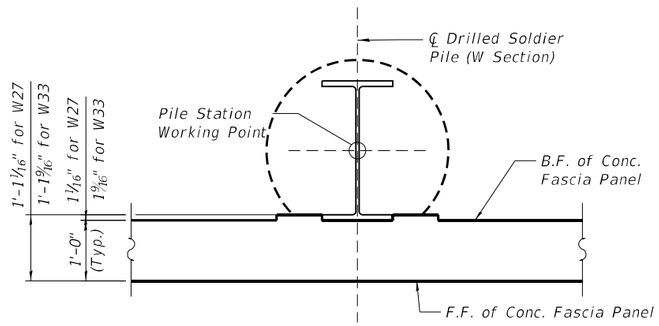


SHEAR STUD DETAIL



SERIES OF BAR CUTTING DIAGRAM

See table for dimensions. Make all cuts normal to bar axis



SOLDIER PILE WORKING POINT

BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars Per Set	A	B	C
v(E)	1	#5	31	10'-11"	11'-3"	22'-2"
v1(E)	1	#5	31	11'-3"	11'-7"	22'-10"
v2(E)	1	#5	21	11'-7"	11'-9"	23'-4"
v3(E)	1	#5	31	11'-9"	11'-10"	23'-7"
v4(E)	1	#5	31	11'-10"	11'-11"	23'-9"
v5(E)	1	#5	31	11'-11"	12'-0"	23'-11"
v6(E)	1	#5	31	12'-0"	11'-6"	23'-6"

NOTE:

1. For Notes, see Sheet S1-03.

LEGEND

F.F.-Front Face
B.F.-Back Face

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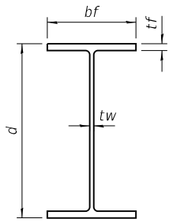
HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi		DESIGNED - MA		REVISED -	
		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - JMI		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

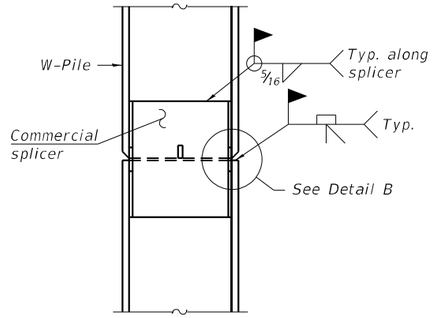
WALL CROSS SECTIONS AND DETAILS (SHEET 2 OF 2)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-07 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	89
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		

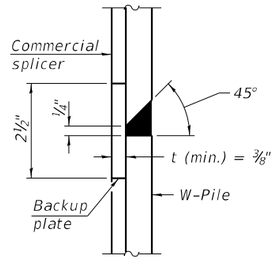


STEEL PILE TABLE

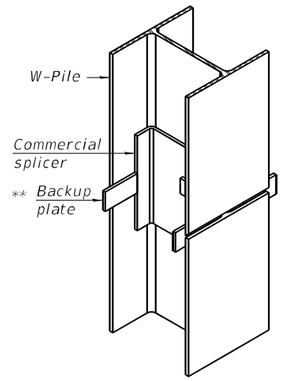
Designation	Depth d	Flange width bf	Flange thickness tf	Web thickness tw	Encasement diameter A
W27x161	27⅝	14"	1 1/16"	1 1/16"	36"
W33x263	34½"	15¾"	1 9/16"	⅞"	42"



ELEVATION

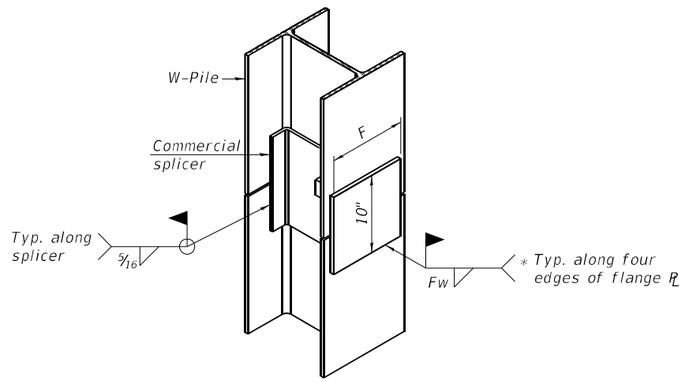


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

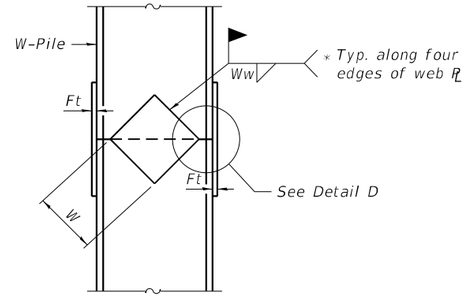


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.



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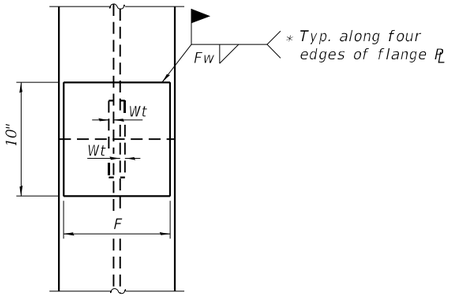
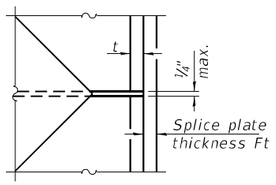


END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
W27x161	11"	1⅛"	1"	12½"	⅝"	½"
W33x263	12"	1⅝"	1½"	15½"	⅝"	½"

WELDED PLATE FIELD SPLICE

NOTES:

1. The steel W-piles shall be according to AASHTO M270 Grade 50.
2. Cost of furnishing and erecting splice plates shall be included with Furnishing Soldier Piles (W Section).

F-HP-MODIFIED 1-1-2020

HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PILE SPLICE DETAILS RETAINING WALL 1 (STRUCTURE NO. 016-9200)
	CHECKED - MAI	REVISED -		
PLOT SCALE = NTS	DRAWN - MA	REVISED -		SHEET S1-08 OF S1-13 SHEETS
PLOT DATE = 10/14/2021	DATE - 10/14/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	90
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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10/14/2021 10:28:46 AM

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Fax: 6309539938

BORING LOG NDB-06

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NGVD
Elevation: 632.16 ft
North: 1960179.88 ft
East: 1102312.55 ft
Station: 116+21.767
Offset: LT 9.128

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
631.3	10-inch thick, ASPHALT --PAVEMENT--						
630.9	5-inch thick, CONCRETE --PAVEMENT--						
	Stiff to very stiff, gray SILTY CLAY, trace gravel			1	5 4 5	1.25 P	22
		5		2	2 3 4	2.54 B	24
				3	2 4 5	2.71 B	21
622.7				4	2 2 4	1.07 B	23
	Gray SILT --Wet--	10					
620.8				5	2 1 2	0.25 P	23
620.4	Very stiff, gray SILTY CLAY (Qu-2.5tsf) Soft, gray SILTY CLAY						
619.2	Medium dense, gray SILT --Wet--			6	3 8 5	NP	18
		15					
616.7	Medium stiff, gray SILTY CLAY LOAM			7	2 6 8	0.82 B	14
614.2	Very dense, gray SILT --Dry--			8	18 28 36	NP	13
		20					
610.9	Hard, gray SILTY CLAY, trace gravel			9	12 9 9	9.02 B	14
		25		10	9 12 14	8.61 B	12
				11	8 13 19	> 10.25 B	13
		30		12	8 12 19	> 10.25 B	15
600.4	Dense, gray, medium SAND, little gravel --Wet--			13	9 22 24	NP	12
597.7 / 597.2	Hard, gray SILTY CLAY, trace gravel, silt lenses	35					
	Boring terminated at 35.00 ft						
		40					

GENERAL NOTES

Begin Drilling: 07-07-2015 Complete Drilling: 07-07-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K&R Logger: A. Tomaras Checked by: B. Wilson
Drilling Method: 3.25 IDA HSA; Backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 9.50 ft
At Completion of Drilling: ▼ 28.00 ft
Time After Drilling: NA
Depth to Water: ▽ NA

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

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BORING LOG NDB-07

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NAVD
Elevation: 628.89 ft
North: 1960148.20 ft
East: 1102403.14 ft
Station: 117+16.892
Offset: LT 9.824

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.3	7-inch thick, ASPHALT --PAVEMENT--						
627.5	10-inch thick, CONCRETE --PAVEMENT--						
626.4	Loose, white SANDY GRAVEL --BASE COURSE-- --Moist--			1	7 5 4	NP	12
	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel			2	4 8 6	2.95 S	13
		5		3	2 3 3	2.54 B	11
620.9	Loose, gray SILT --Wet--			4	4 5 3	NP	15
619.2	Stiff to hard, gray SITLY CLAY to SILTY CLAY LOAM, trace gravel --Sand lenses--	10		5	2 2 4	1.31 B	14
	--Sandy gravel lenses--	15		6	6 10 13	7.22 B	13
	--Silty loam lenses--			7	5 14 27	6.48 S	15
		20		8	5 12 12	> 10.25 S	12
	--Sand lenses--	25		9	10 15 12	> 10.25 S	12
603.9				10	7 20 21	> 10.25 S	12
	Boring terminated at 25.00 ft						
		30					
		35					
		40					

GENERAL NOTES

Begin Drilling: 06-16-2015 Complete Drilling: 06-16-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: A. Tomaras Checked by: B. Wilson
Drilling Method: 3.25 IDA HSA; Backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 8.00 ft
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▽ NA

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

WANGENGINC 4910203.GPJ WANGENG.GDT 3/24/21

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		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - JMI		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 5)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-09 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	91
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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BORING LOG NDB-08

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NAVD
Elevation: 627.22 ft
North: 1960112.45 ft
East: 1102483.35 ft
Station: 118+04.202
Offset: LT 10.375

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
626.7	6-inch thick, ASPHALT --PAVEMENT--						
626.0	9-inch thick, CONCRETE --PAVEMENT--						
	Loose, brown SANDY GRAVEL --BASE COURSE-- --Dry--			1	5 5 3	NP	7
624.0	Stiff, gray SILTY CLAY, trace gravel			2	3 2 3	1.56 B	16
		5		3	2 2 4	1.31 B	15
				4	2 3 4	1.48 B	17
		10		5	3 9 16	1.80 B	13
615.2	Dense to very dense, gray SANDY LOAM, some gravel						
	--Wet--			6	10 16 21	NP	10
		15		7	16 24 33	NP	9
609.2	Hard, gray SILTY CLAY LOAM, trace gravel						
				8	15 17 26	4.18 S	12
607.2	Boring terminated at 20.00 ft	20					

GENERAL NOTES

Begin Drilling: 06-16-2015 Complete Drilling: 06-16-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: A. Tomaras Checked by: B. Wilson
Drilling Method: 3.25 IDA HSA; Backfilled upon completion

WATER LEVEL DATA

While Drilling: 12.00 ft
At Completion of Drilling: 15.00 ft
Time After Drilling: NA
Depth to Water: NA

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

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BORING LOG RWB-06

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NAVD
Elevation: 643.44 ft
North: 1960219.65 ft
East: 1102340.28 ft
Station: 116+35.862
Offset: LT 55.385

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Black SILTY LOAM --TOPSOIL--			1	PUSH	NP	33
641.7	Stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel --Wet, possible sand lens--			2	PUSH	3.06 S	16
		5		3	PUSH	4.78 S	17
				4	PUSH	3.25 S	17
				5	PUSH	4.78 S	17
633.4	Boring terminated at 10.00 ft	10					
		15					
		20					

GENERAL NOTES

Begin Drilling: 06-26-2015 Complete Drilling: 06-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: S&J Logger: A. Happel Checked by: B. Wilson
Drilling Method: 1" IDA Pneumatic Geoprobe LB Sampler

WATER LEVEL DATA

While Drilling: 2.00 ft
At Completion of Drilling: 9.50 ft
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 4910203.GPJ WANGENG.GDT 3/24/21

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USER NAME = mustafa.alobaidi		DESIGNED - MA		REVISED -	
		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - JMI		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 2 OF 5)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-10 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	92
		CONTRACT NO. 62H38		
		ILLINOIS FED. AID PROJECT		

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Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-07

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NAVD
Elevation: 643.13 ft
North: 1960197.74 ft
East: 1102410.43 ft
Station: 117+05.463
Offset: LT 58.483

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		18-inch thick, black SILTY LOAM --TOPSOIL-- --Dry--		PUSH	1		NP	41
	641.0	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		PUSH	2		4.01 S	16
		--L_L(%)=38, P_L(%)=18-- --%Gravel=1.3-- --%Sand=12.3-- --%Silt=50.3-- --%Clay=36.1-- --A-6 (17)-- --Wet, seams of fine sand--	5	PUSH	3		1.53 B	23
				PUSH	4		2.29 B	25
	633.6	Gray SILTY LOAM --Wet--	10	PUSH	5		4.20 B	20
	632.6	Hard, gray SILTY CLAY, trace gravel		PUSH	6		4.20 B	16
	631.1	Boring terminated at 12.00 ft	15					
			20					

GENERAL NOTES

Begin Drilling: 06-26-2015 Complete Drilling: 06-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: S&J Logger: A. Happel Checked by: B. Wilson
Drilling Method: 1" IDA Pneumatic Geoprobe LB Sampler

WATER LEVEL DATA

While Drilling: 6.00 ft
At Completion of Drilling: 8.00 ft
Time After Drilling: NA
Depth to Water: NA

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

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

BORING LOG RWB-08

WEI Job No.: 491-02-03

Client: Accurate Group, Inc.
Project: US 14 under CN/UP RR
Location: Des Plaines, IL

Datum: NAVD
Elevation: 642.99 ft
North: 1960189.62 ft
East: 1102449.98 ft
Station: 117+42.822
Offset: LT 66.278

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Black SILTY LOAM, trace roots --TOPSOIL-- --Dry--		PUSH	1		NP	27
	641.1	Medium stiff to hard, brown and gray to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		PUSH	2		0.96 S	18
			5	PUSH	3		3.63 B	20
				PUSH	4		5.92 S	18
				PUSH	5		8.60 B	18
			10	PUSH	6		6.78 B	18
	631.0	Boring terminated at 12.00 ft	15					
			20					

GENERAL NOTES

Begin Drilling: 06-26-2015 Complete Drilling: 06-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: S&J Logger: A. Happel Checked by: B. Wilson
Drilling Method: 1" IDA Pneumatic Geoprobe LB Sampler

WATER LEVEL DATA

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

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

WANGENGINC 4910203.GPJ WANGENG.GDT 3/24/21

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HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS (SHEET 3 OF 5) RETAINING WALL 1 (STRUCTURE NO. 016-9200)
	CHECKED - MAI	REVISED -		
PLOT SCALE = NTS	DRAWN - JMI	REVISED -		SHEET S1-11 OF S1-13 SHEETS
PLOT DATE = 10/14/2021	DATE - 10/14/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	93
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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Lombard, IL 60148
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BORING LOG SDB-07

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.10 ft
North: 1960168.98 ft
East: 1102306.38 ft
Station: 116+19.053
Offset: RT 3.096

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
631.3	9-inch thick, ASPHALT --PAVEMENT--					
631.0						
630.4	5-inch thick, CONCRETE --PAVEMENT--					
	6-inch thick, CRUSHED STONE --BASE COURSE--		1	9 4 5	NA	18
	Stiff to very stiff, gray SILTY CLAY, trace gravel		2	2 3 5	1.89 B	25
5						
624.9			3	2 3 7	2.13 B	21
	Loose to medium dense, gray SILT --Moist--		4	2 5 5	NP	22
10						
	--Wet-- --%Gravel=0.1-- --%Sand=1.3-- --%Silt=92.8-- --%Clay=5.8-- --A-4 (0)--		5	1 2 7	NP	26
			6	4 6 5	NP	19
15						
616.6	Medium dense, gray SANDY LOAM --Moist--		7	5 7 10	NP	11
614.1	Dense, gray SILT --Dry--		8	13 20 25	NP	14
20						
611.6	Hard, gray SILTY CLAY LOAM, trace gravel		9	6 11 15	8.20 B	13
25			10	8 12 16	6.64 B	14
604.1	Gray, coarse SAND --Saturated--		11	16 28 18	7.13 B	12
603.1	Hard, gray SILTY CLAY LOAM, trace gravel		12	11 10 16	> 4.50 P	17
30						
601.6	Dense, gray, medium to coarse SAND, little gravel --Saturated--		13	13 18 15	NP	12
599.8	Hard, gray SILTY CLAY LOAM, trace gravel		14	21 28 35	8.80 S	10
35						
			15	12 17 22	6.23 B	11
			16	6 18 22	5.99 B	16
592.1	Boring terminated at 40.00 ft					
40						
45						
50						

GENERAL NOTES

Begin Drilling: **06-15-2015** Complete Drilling: **06-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **B. Wilson** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **35.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG SDB-08

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 628.71 ft
North: 1960130.13 ft
East: 1102399.05 ft
Station: 117+19.999
Offset: RT 8.441

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.0	8-inch thick, ASPHALT --PAVEMENT--					
627.6						
	5-inch thick, CONCRETE --PAVEMENT--					
625.7	Medium dense, gray CRUSHED STONE --BASE COURSE--		1	8 8 6	NP	7
	Medium dense, gray SILT --Moist--		2	9 7 10	NP	16
5						
			3	2 6 8	NP	17
620.7	Medium stiff to hard, gray SILTY CLAY LOAM, trace gravel		4	2 3 3	0.74 B	17
10						
			5	2 3 4	0.98 B	16
			6	6 8 15	4.59 B	13
15						
611.5	Gray SILT --Dry--		7	7 10 29	5.90 B	17
610.7	Hard, gray SILTY CLAY LOAM, trace gravel		8	9 9 15	7.54 B	13
20						
			9	6 10 15	6.97 B	13
25			10	5 9 15	5.74 B	16
598.7	Boring terminated at 30.00 ft		11	9 12 16	8.20 B	15
30			12	7 11 18	7.05 B	15
35						
40						
45						
50						

GENERAL NOTES

Begin Drilling: **06-15-2015** Complete Drilling: **06-15-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **B. Wilson** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

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		CHECKED - MAI		REVISED -	
PLOT SCALE = NTS		DRAWN - JMI		REVISED -	
PLOT DATE = 10/14/2021		DATE - 10/14/2021		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 4 OF 5)
RETAINING WALL 1 (STRUCTURE NO. 016-9200)
SHEET S1-12 OF S1-13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	94
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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BORING LOG SDB-09

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.67 ft
North: 1960099.48 ft
East: 1102467.10 ft
Station: 117+95.052
Offset: RT 8.295

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
627.2	6-inch thick, ASPHALT						
626.7	--PAVEMENT--						
	6-inch thick, CONCRETE						
	--PAVEMENT--			1	7 8 11	NP	10
625.4	Medium dense, brown SANDY GRAVEL						
	--BASE COURSE--						
	--Dry--			2	6 4 5	1.56 B	14
	Stiff to very stiff, gray SILTY CLAY, trace gravel	5					
				3	2 3 5	2.38 B	14
				4	2 3 5	1.23 B	16
		10					
				5	5 9 8	1.80 B	13
614.7	Medium dense, gray SANDY GRAVEL						
	--Wet--			6	8 12 14	NP	12
		15					
612.2	Very dense, gray SILT to SILTY LOAM						
	--Moist--			7	20 29 49	NP	18
	--Saturated--			8	19 50/5"	NP	14
		20					
607.2	Hard, gray SILTY CLAY LOAM, trace gravel						
				9	12 18 28	6.40 B	12
				10	31 44 37	> 4.50 P	9
602.7		25					
	Boring terminated at 25.00 ft						

GENERAL NOTES

Begin Drilling: **06-16-2015** Complete Drilling: **06-16-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **R&J** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **13.00 ft**
At Completion of Drilling: **14.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

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HBM ENGINEERING GROUP, LLC

USER NAME = mustafa.alobaidi	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS (SHEET 5 OF 5) RETAINING WALL 1 (STRUCTURE NO. 016-9200)
	CHECKED - MAI	REVISED -		
PLOT SCALE = NTS	DRAWN - JMI	REVISED -		SHEET S1-13 OF S1-13 SHEETS
PLOT DATE = 10/14/2021	DATE - 10/14/2021	REVISED -		

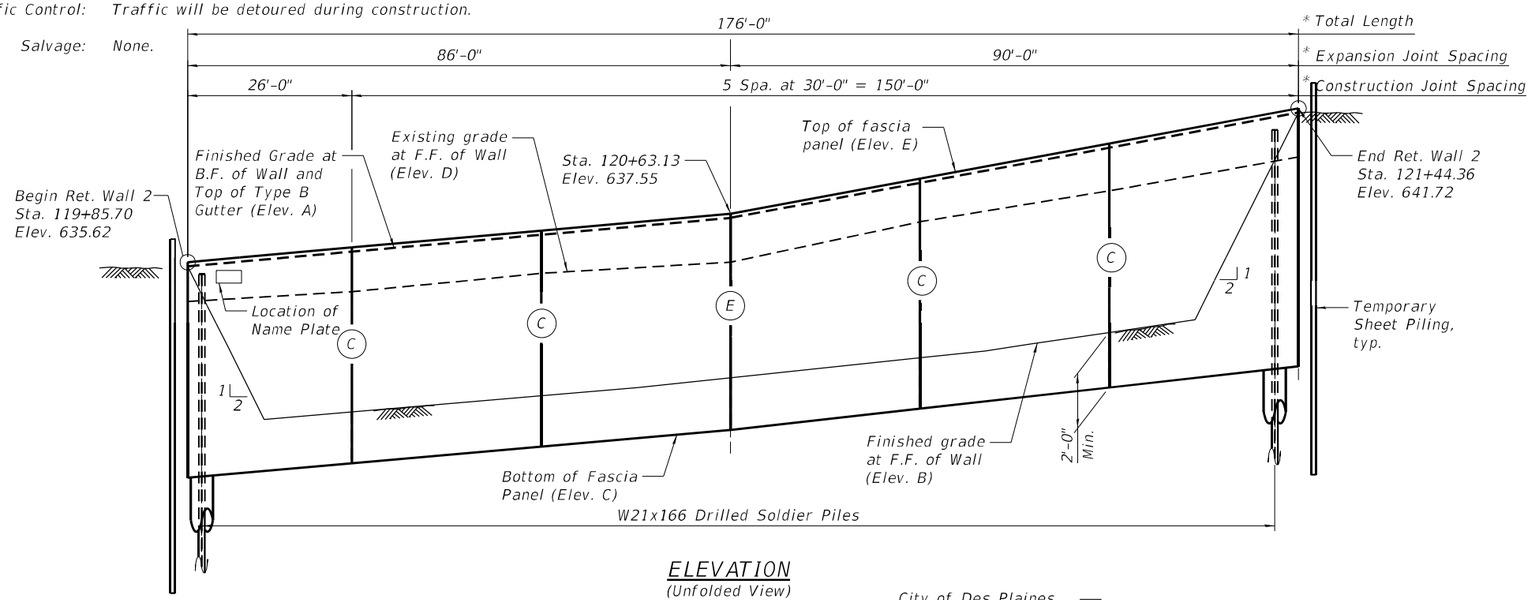
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	95
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

Benchmark: Temp benchmark #1 set chiseled "x" on top of 6" concrete barrier curb at southeast corner of existing dayton freight parking lot adjacent to the existing pump station no. 8 elevation 643.93 (highway datum)

Existing Structure: None.

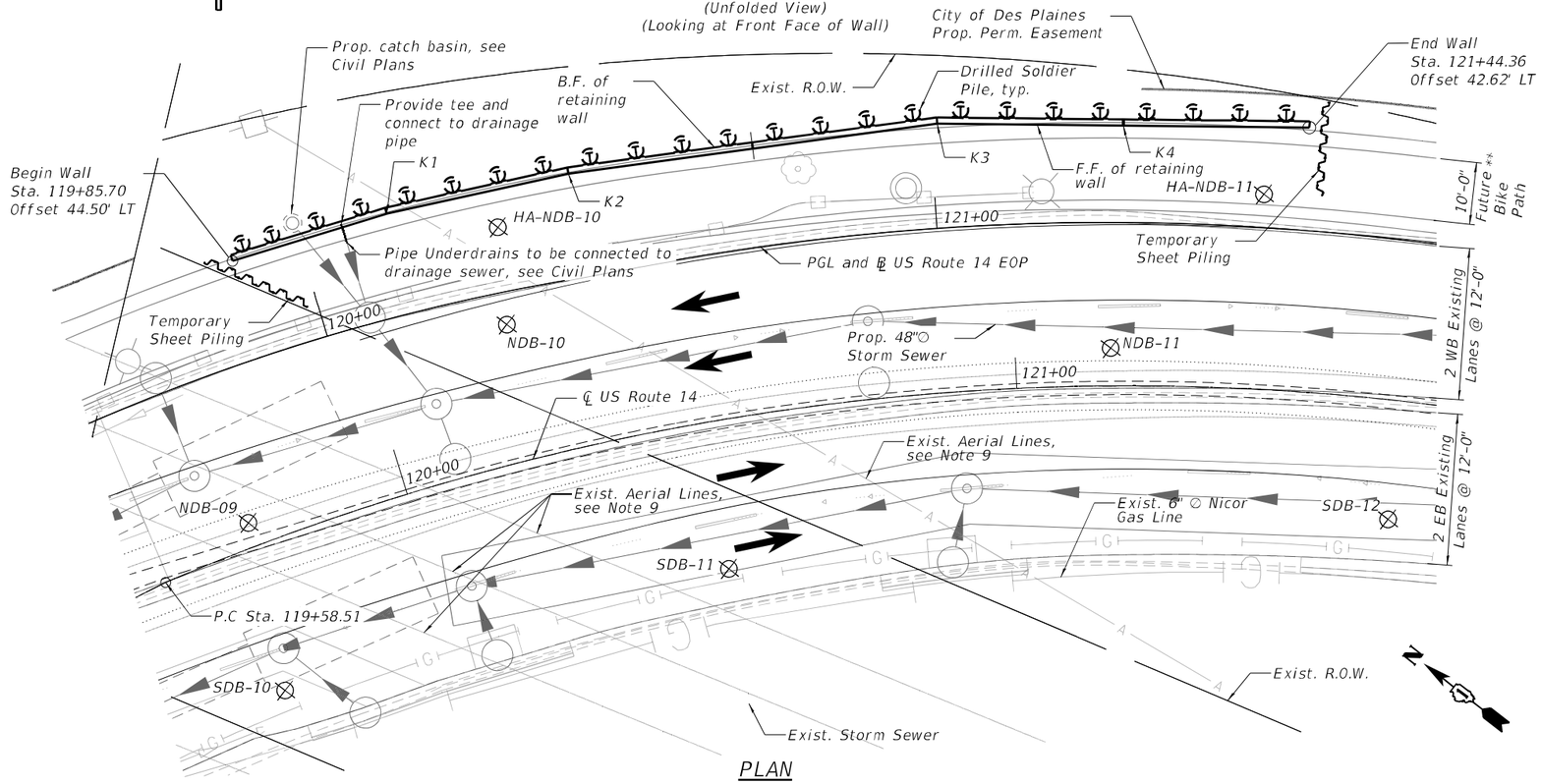
Traffic Control: Traffic will be detoured during construction.

Salvage: None.



ELEVATION

(Unfolded View)
(Looking at Front Face of Wall)



PLAN

NOTES:

1. For General Notes, Index of Sheets, Total Bill of Material, Wall Elevations Table, Scope of Work, Profile Grade Line, and Suggested Construction Sequence, see Sheet S2-02.
2. Stations and offsets are measured from the ℄ of US Route 14 to the front face of cast-in-place concrete facing.
3. "K1" denotes wall Kink Point - Number 1.
4. "C" denotes Construction Joint.
5. "E" denotes Expansion Joint.
6. "F.F." denotes Front Face.
7. "B.F." denotes Back Face.
8. See Civil Plans for Pipe Underdrain to Drainage Structure Connection details.
9. The vertical clearance between roadway level and the aerial power lines is approximately 62 feet.

* Measured along F.F. of Wall

** Bike path to be provided in separate contract. Dimensions shown for information only.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

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

SOLDIER PILES

fy = 50,000 psi (M270 Grade 50)

STATE OF ILLINOIS
MOUSSA A. ISSA
081-005738
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

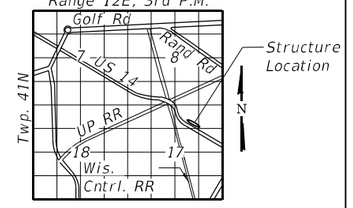
Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E. IL. Lic. No. 081-005738
Expires 11-30-2022

Date 11/15/2021

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LEGEND

- Exist. Aerial Power Lines
- Exist. Underground Telephone
- Exist. Underground Gas
- Exist. Underground Electric
- Exist. Underground Water Main
- Exist. Storm Sewer
- Prop. Storm Sewer
- Boring Location
- Prop. Catch Basin
- Exist. Manhole
- Prop. Manhole
- Exist. Light Pole
- Exist. Transmission Tower



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RETAINING WALL 2
US ROUTE 14
F.A.U. RTE. 3512
SECTION 2018-109-RS,SW&T
COOK COUNTY
STATION 119+85.70 TO 121+44.36
STRUCTURE NO. 016-9201

HBM ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - MA, WM	REVISED -	
	CHECKED - MAI	REVISED -	
PLOT SCALE =	DRAWN - MA, JMI	REVISED -	
PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-01 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	96
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES:

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

2. Protective Coat shall be applied to exposed surfaces of the panels.

3. Soldier piles shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer. Cost included with Furnishing Soldier Piles (W Section).

4. The Contractor shall choose a method of drilling the soldier pile shafts that is appropriate for the presence of high ground water. The Contractor shall take all necessary precautions to protect the hole from collapse and to avoid contaminating groundwater during the drilled soldier pile shaft construction operation. The Contractor is responsible for the proper containment and disposal of any contaminated groundwater spoils resulting from Contractor's means and methods. This work will not be paid for separately but shall be included in the items of work involved.

5. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the Civil Plans.

6. Wall to be built along straight cords between construction and expansion joints.

7. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.

8. Any storage of construction equipment and material behind wall is not allowed.

9. Earth excavation in front of wall shall be gradual and no more than 4'-0" of earth shall be excavated at a time in front of the wall. The elevation difference between adjacent excavated areas in front of wall shall not vary more than 6'-0" over a distance of 50'-0" as measured along the length of the wall.

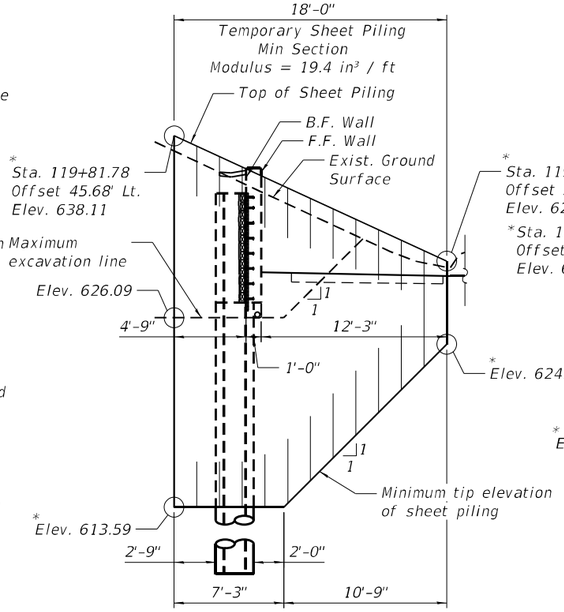
10. The Contractor shall exercise extreme caution in drilling and setting the soldier piles under the Aerial Power Lines. The Contractor is responsible to coordinate with the utilities to deenergize these lines if required. The Contractor shall make necessary adjustments to the splice lengths of the soldier piles and to the auguring equipment to maintain adequate clearance to the Aerial Power Lines as specified in OSHA safety requirements.

INDEX OF SHEETS

S2-01 General Plan and Elevation
S2-02 General Notes, Index of Sheets & Total Bill of Material
S2-03 Plan and Elevation (Sta. 119+85.70 to Sta. 120+63.13)
S2-04 Plan and Elevation (Sta. 120+63.13 to Sta. 121+44.36)
S2-05 Wall Cross Sections and Details (Sheet 1 of 2)
S2-06 Wall Cross Sections and Details (Sheet 2 of 2)
S2-07 Pile Splice Details
S2-08 Boring Logs (Sheet 1 of 4)
S2-09 Boring Logs (Sheet 2 of 4)
S2-10 Boring Logs (Sheet 3 of 4)
S2-11 Boring Logs (Sheet 4 of 4)

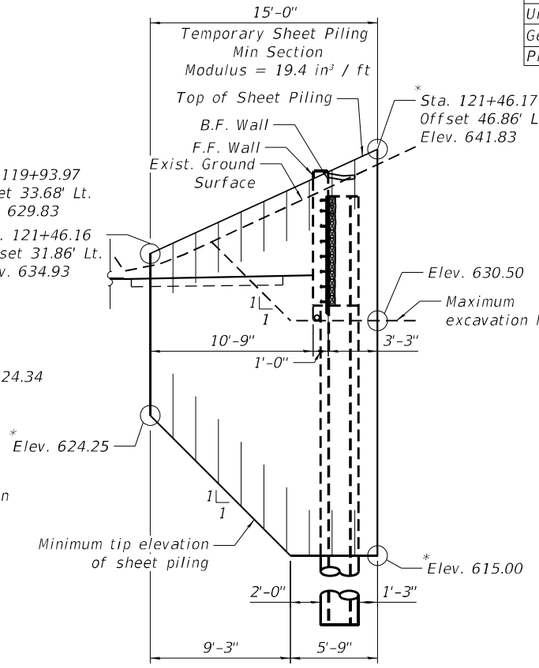
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	202
Structure Excavation	CU YD	168
Concrete Structures	CU YD	60
Stud Shear Connectors	EACH	400
Reinforcement Bars, Epoxy Coated	POUND	7,370
Name Plates	EACH	1
Temporary Sheet Piling	SQ FT	617
Furnishing Soldier Piles (W Section)	FOOT	1,088
Drilling And Setting Soldier Piles (In Soil)	CU FT	5,341
Untreated Timber Lagging	SQ FT	1,315
Geocomposite Wall Drain	SQ YD	167
Pipe Underdrains For Structures 4"	FOOT	180



TEMPORARY SHEET PILING ELEVATION

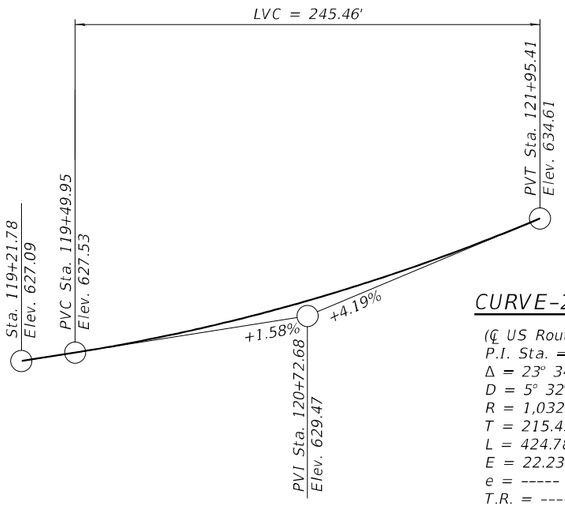
(Beginning of Wall)
(Looking East)



TEMPORARY SHEET PILING ELEVATION

(End of Wall)
(Looking West)

* The intent of the Temporary Sheet Piling is to protect the adjacent property at both ends of the wall outside of the State ROW. The Temporary Sheet Piling will be removed after completion of the wall and the soil shall be graded as shown in the Roadway Plans.



PROFILE GRADE

(At North Edge of Pavement, in front of the Barrier for WB US 14)

CURVE-2 DATA

(℄ US Route 14)
P.I. Sta. = 115+61.03
Δ = 23° 34' 00" (RT)
D = 5° 32' 53"
R = 1,032.72'
T = 215.43'
L = 424.78'
E = 22.23'
e = -----
T.R. = -----
S.E. Run = -----
P.C. Sta. = 113+45.59
P.T. Sta. = 117+70.37

CURVE-3 DATA

(℄ US Route 14)
P.I. Sta. = 121+26.99
Δ = 46° 04' 26" (RT)
D = 14° 27' 41"
R = 396.20'
T = 168.48'
L = 318.60'
E = 34.33'
e = -----
T.R. = -----
S.E. Run = -----
P.C. Sta. = 119+58.51
P.T. Sta. = 122+77.11

STATION 119+85.70 TO 121+44.36
BUILT 20-- BY
STATE OF ILLINOIS
F.A.U. RTE. 3512-SEC. 2018-109-RS,SW&T
LOADING HL-93
STRUCTURE NO. 016-9201

NAME PLATE

See Std. 515001

WALL ELEVATIONS TABLE

Location	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
Begin Wall	119+85.70	44.50' Lt.	635.46	635.46	627.09	634.07	635.62
K1	120+09.08	44.29' Lt.	636.04	629.69	627.66	634.45	636.21
K2	120+36.09	43.61' Lt.	636.71	630.33	628.32	635.18	636.88
-	120+63.13	42.46' Lt.	637.38	631.05	628.98	635.62	637.55
K3	120+90.19	43.37' Lt.	638.77	631.84	629.82	637.22	638.94
K4	121+17.25	41.97' Lt.	640.16	632.84	630.66	638.45	640.33
End Wall	121+44.36	42.62' Lt.	641.55	641.55	631.50	639.79	641.72

Elevation A - Finished Grade at B.F of Wall and Top of Type B Gutter
Elevation B - Finished Grade at F.F of Wall
Elevation C - Bottom of Fascia Panel
Elevation D - Existing Grade at F.F of Wall
Elevation E - Top of Fascia Panel

HBM ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - MA, JMI	REVISED -	
	CHECKED - MAI	REVISED -	
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PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
RETAINING WALL 2 (STRUCTURE NO. 016-9201)

SHEET S2-02 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	97
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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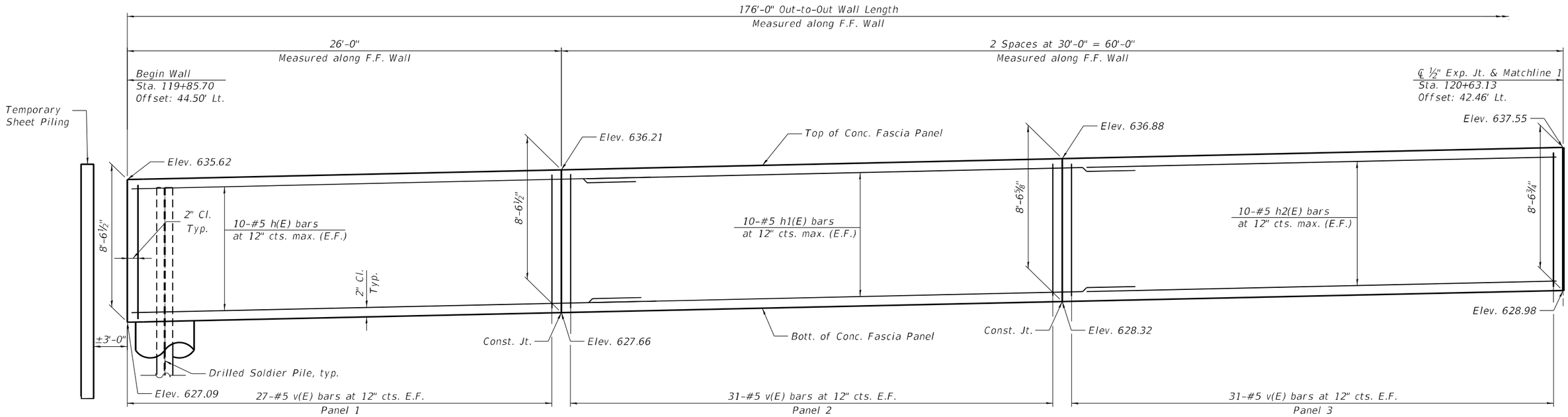
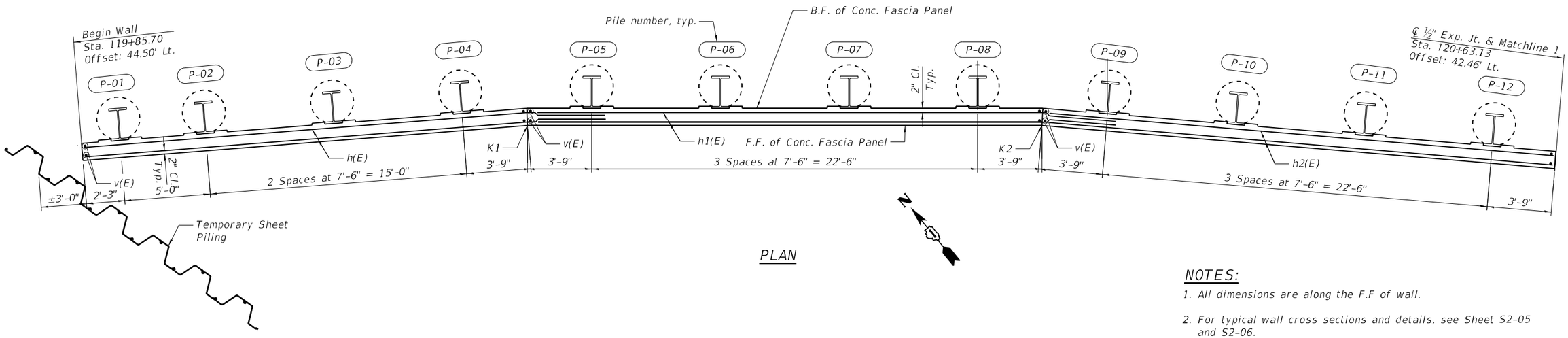


ELEVATION

(Unfolded View)



PLAN

NOTES:

1. All dimensions are along the F.F of wall.
2. For typical wall cross sections and details, see Sheet S2-05 and S2-06.
3. For soldier pile layout, minimum bar laps, sections, details, and Bill of Material, see Sheet S2-06.
4. Station and Offset are measured along the F.F of the wall from ℄ US 14.

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PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 119+85.70 TO STA. 120+63.13)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)

SHEET S2-03 OF S2-11 SHEETS

F.A.U. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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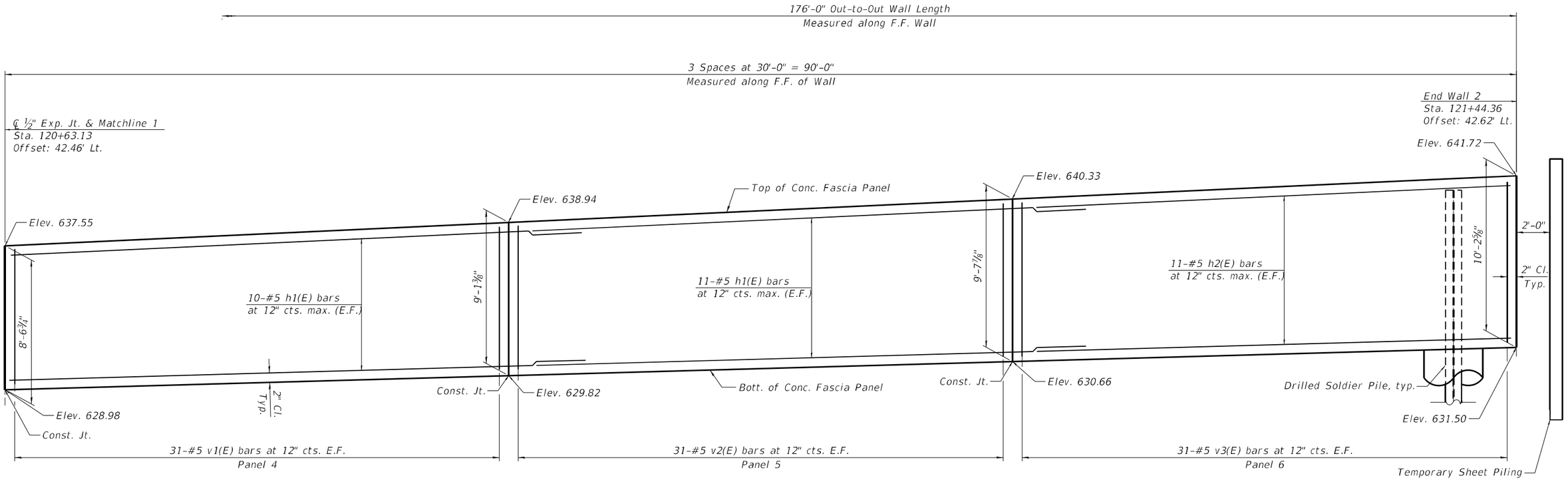
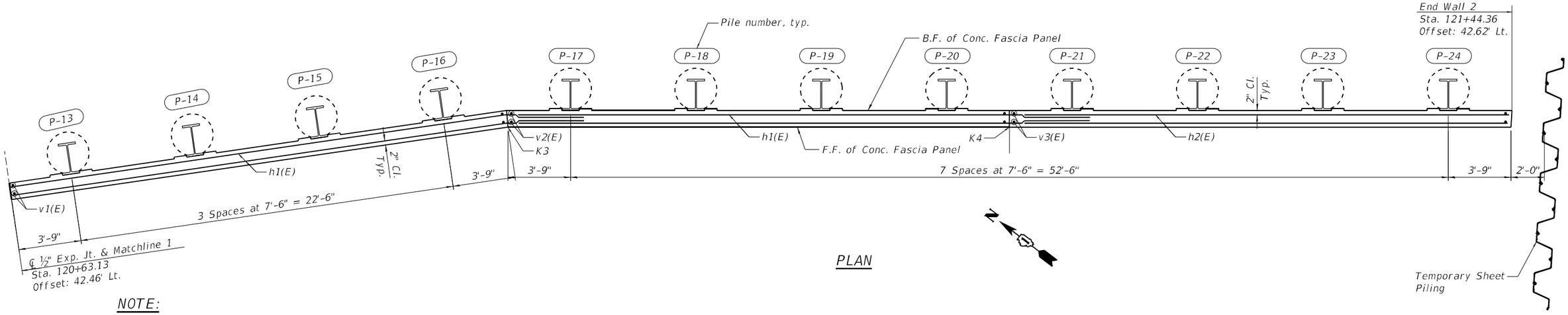
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		



ELEVATION
(Unfolded View)



PLAN

NOTE:

1. For Notes, see Sheet S2-03.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION (STA. 120+63.13 TO STA. 121+44.36)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)

SHEET S2-04 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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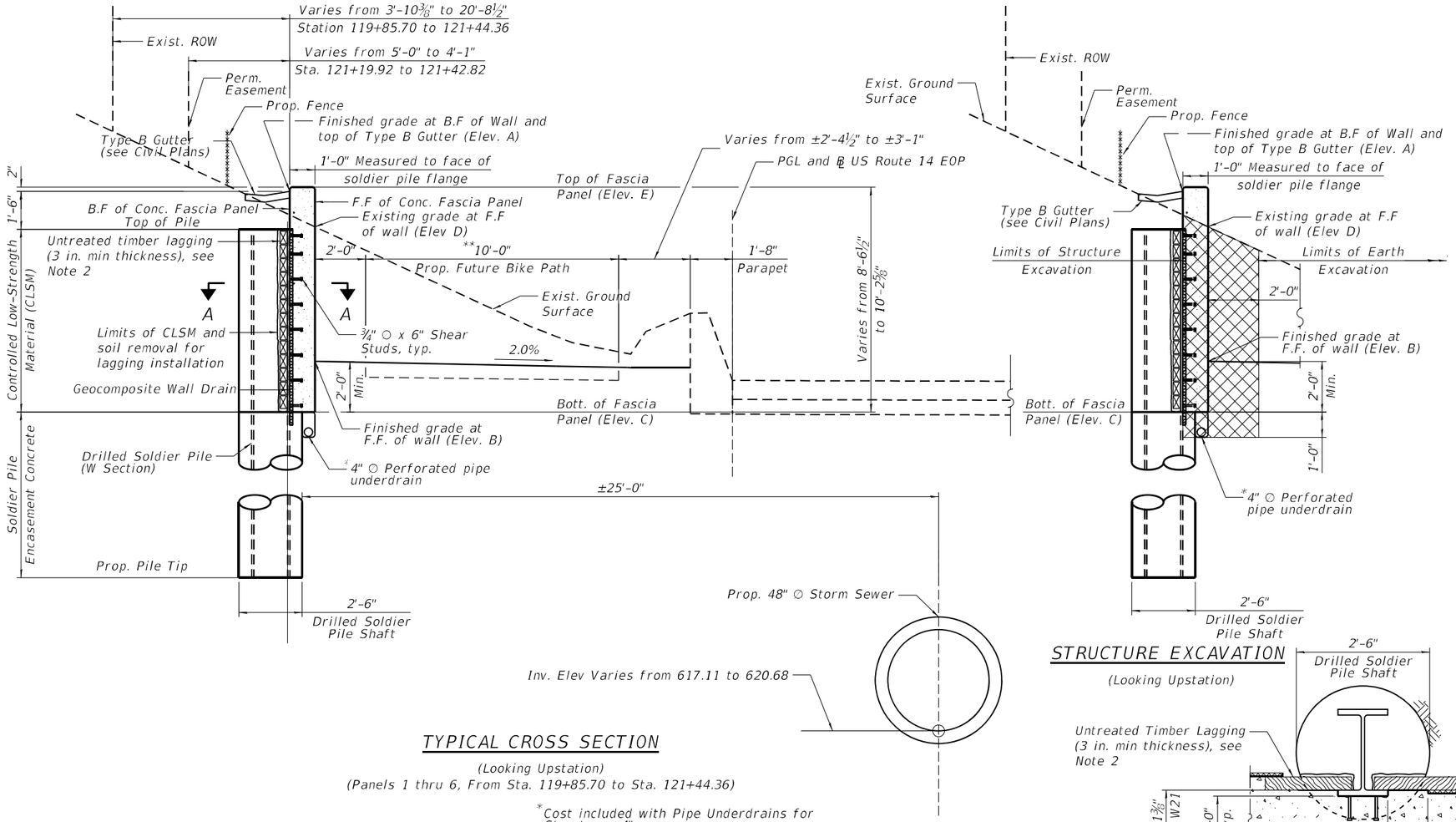
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		

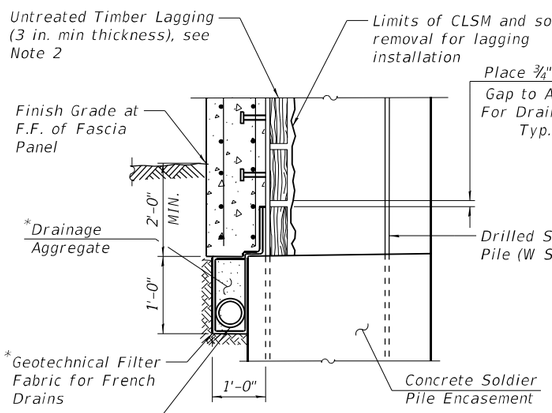


TYPICAL CROSS SECTION

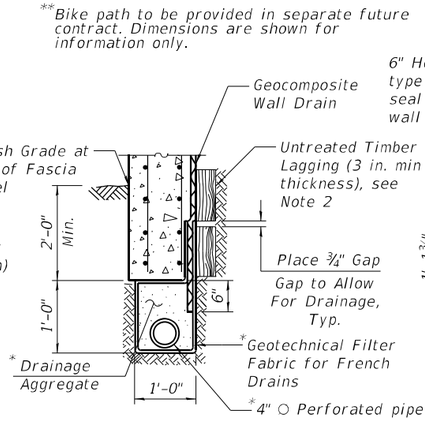
(Looking Upstation)
(Panels 1 thru 6, From Sta. 119+85.70 to Sta. 121+44.36)

*Cost included with Pipe Underdrains for Structures 4"

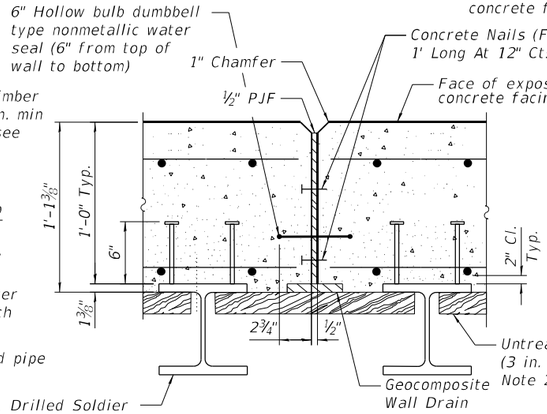
**Bike path to be provided in separate future contract. Dimensions are shown for information only.



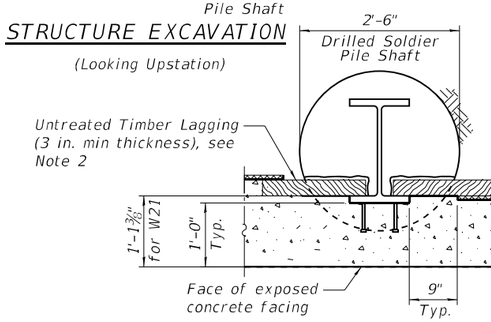
PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILE



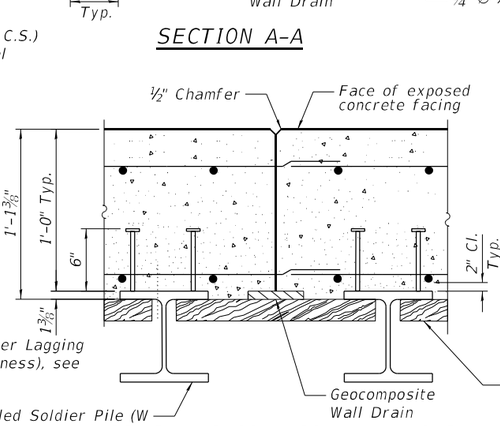
EXPANSION JOINT DETAILS



STRUCTURE EXCAVATION

(Looking Upstation)

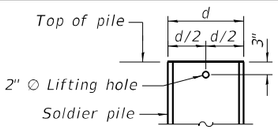
SECTION A-A



CONSTRUCTION JOINT DETAILS

LEGEND:

- Structure Excavation
- Concrete Structures
- F.F. F.F.-Front Face
- B.F. B.F.-Back Face



LIFTING HOLE DETAIL

NOTES:

1. Structure Excavation is measured 2'-0" from front face of wall to back of soldier pile timber lagging.
2. The Contractor is responsible for the design and performance of the lagging system. For Wood Lagging, using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for approval by the Engineer.
3. The Contractor shall provide Wood Lagging parallel to wall panel between the Temporary Sheet Piling and the first adjacent pile, cost included with Furnishing Soldier Piles (W Section).
4. The geocomposite wall drain shall be placed behind the lagging with the pervious side toward the soil according to Section 591 of the Standard Specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain. Thickness shall not be greater than 1 1/16".
5. Stud shear connectors shall be 3/4" Ø x 6" granular or solid flux filled headed studs, conforming to Article 1006.32 of the Standard Specifications, automatically end welded to the front flange of the soldier piles.
6. For Shear Stud Detail, see Sheet S2-06.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS (SHEET 1 OF 2)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-05 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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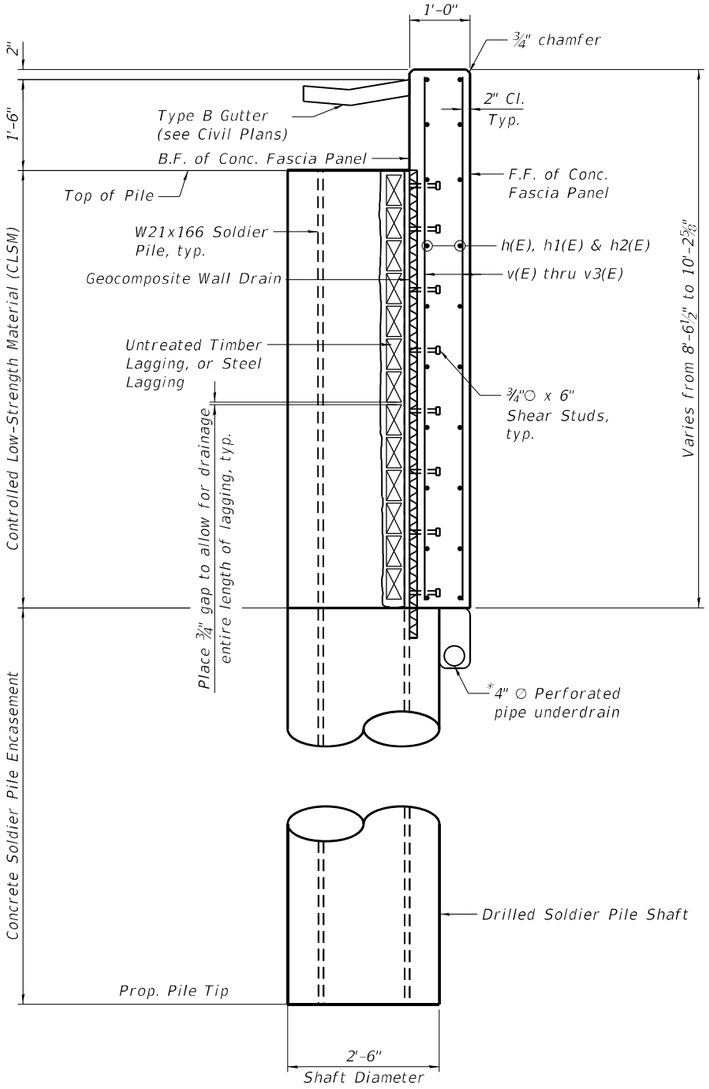
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	



TYPICAL SOLDIER PILE WALL CROSS SECTION

PILE LAYOUT

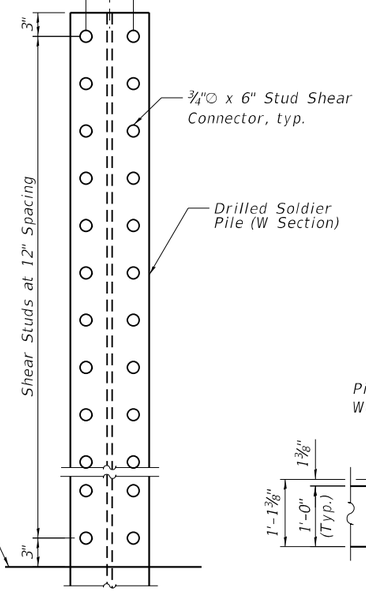
Pile	Station at Working Point	Offset	Top of Pile Elevation	Top of Encasement/ Bottom of CLSM	Section	Auger Diameter	Pile Tip Elevation	Pile Length
P-01	119+87.78	46.35' Lt.	634.01	627.14	W21x166	2'-6"	589.01	45.00
P-02	119+92.25	46.22' Lt.	634.12	627.25	W21x166	2'-6"	589.12	45.00
P-03	119+98.97	46.13' Lt.	634.12	627.41	W21x166	2'-6"	589.12	45.00
P-04	120+5.69	46.17' Lt.	634.45	627.58	W21x166	2'-6"	589.45	45.00
P-05	120+12.54	46.03' Lt.	634.62	627.74	W21x166	2'-6"	589.62	45.00
P-06	120+19.25	45.73' Lt.	634.79	627.91	W21x166	2'-6"	589.79	45.00
P-07	120+25.98	45.56' Lt.	634.95	628.07	W21x166	2'-6"	589.95	45.00
P-08	120+32.70	45.52' Lt.	635.12	628.24	W21x166	2'-6"	590.12	45.00
P-09	120+39.57	45.29' Lt.	635.29	628.40	W21x166	2'-6"	590.29	45.00
P-10	120+46.29	44.88' Lt.	635.46	628.57	W21x166	2'-6"	590.46	45.00
P-11	120+53.03	44.59' Lt.	635.62	628.73	W21x166	2'-6"	590.62	45.00
P-12	120+59.77	44.43' Lt.	635.79	628.90	W21x166	2'-6"	590.79	45.00
P-13	120+66.51	44.40' Lt.	636.05	629.09	W21x166	2'-6"	591.05	45.00
P-14	120+73.26	44.50' Lt.	636.40	629.30	W21x166	2'-6"	591.40	45.00
P-15	120+79.99	44.72' Lt.	636.74	629.51	W21x166	2'-6"	591.74	45.00
P-16	120+86.72	45.07' Lt.	637.09	629.72	W21x166	2'-6"	592.09	45.00
P-17	120+93.69	45.01' Lt.	637.44	629.93	W21x166	2'-6"	591.44	46.00
P-18	121+0.42	44.53' Lt.	637.79	630.14	W21x166	2'-6"	591.79	46.00
P-19	121+7.15	44.19' Lt.	638.13	630.35	W21x166	2'-6"	592.13	46.00
P-20	121+13.90	43.97' Lt.	638.48	630.56	W21x166	2'-6"	592.48	46.00
P-21	121+20.65	43.87' Lt.	638.83	630.77	W21x166	2'-6"	592.83	46.00
P-22	121+27.40	43.91' Lt.	639.18	630.98	W21x166	2'-6"	593.18	46.00
P-23	121+34.15	44.07' Lt.	639.52	631.19	W21x166	2'-6"	593.52	46.00
P-24	121+40.89	44.36' Lt.	639.87	631.40	W21x166	2'-6"	593.87	46.00

*Cost included with Pipe Underdrains for Structures 4"

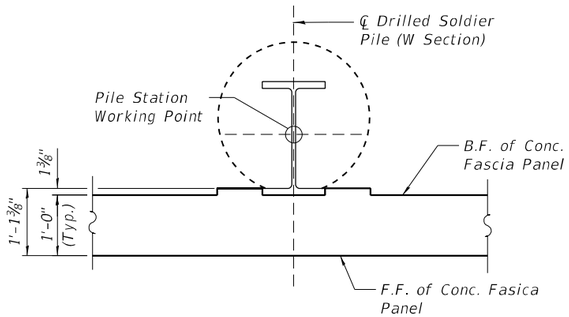
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	29'-5"	——
h1(E)	62	#5	33'-5"	——
h2(E)	42	#5	29'-8"	——
v(E)	178	#5	8'-3"	——
v1(E)	31	#5	17'-1"	——
v2(E)	31	#5	18'-2"	——
v3(E)	31	#5	19'-3"	——
Protective Coat		SQ YD	202	
Structure Excavation		CU YD	168	
Concrete Structures		CU YD	60	
Stud Shear Connectors		EACH	400	
Reinforcement Bars, Epoxy Coated		POUND	7,370	
Furnishing Soldier Piles (W Section)		FOOT	1,088	
Drilling And Setting Soldier Piles (In Soil)		CU FT	5,341	
Untreated Timber Lagging		SQ FT	1,315	
Geocomposite Wall Drain		SQ YD	167	
Pipe Underdrains For Structures 4"		FOOT	180	

Minimum Bar Lap	
Bar	Lap
#5	3'-7"



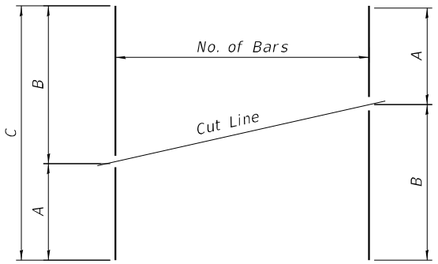
SHEAR STUD DETAIL



SOLDIER PILE WORKING POINT

BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars Per Set	A	B	C
v1(E)	1	#5	31	8'-3"	8'-10"	17'-1"
v2(E)	1	#5	31	8'-10"	9'-4"	18'-2"
v3(E)	1	#5	31	9'-4"	9'-11	19'-3"



SERIES OF BAR CUTTING DIAGRAM

See table for dimensions. Make all cuts normal to bar axis

NOTE:

1.For Notes, see Sheet S2-03.

LEGEND

F.F.-Front Face
B.F.-Back Face

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS (SHEET 2 OF 2)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-06 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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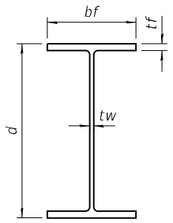
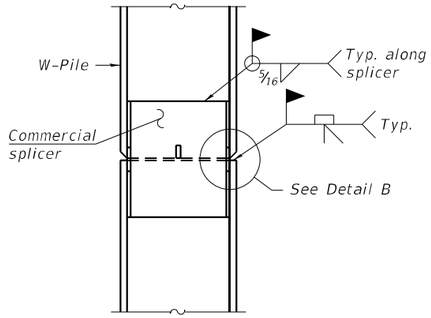
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		



STEEL PILE TABLE

Designation	Depth d	Flange width bf	Flange thickness tf	Web thickness tw	Encasement diameter A
W21x166	22½	12⅜"	1⅜"	¾"	30"



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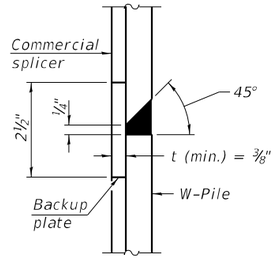
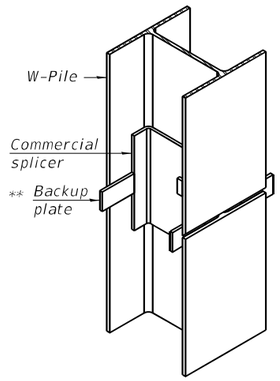
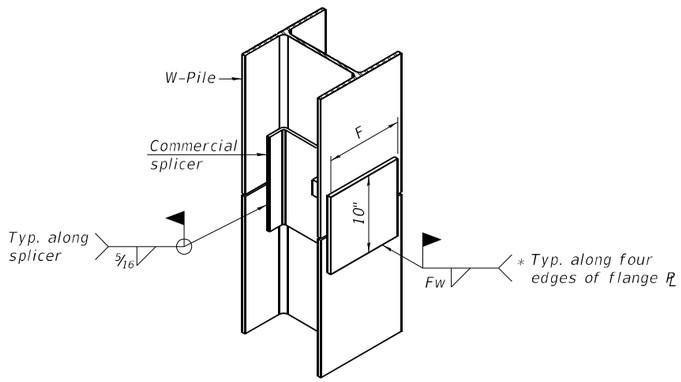


DETAIL "B"



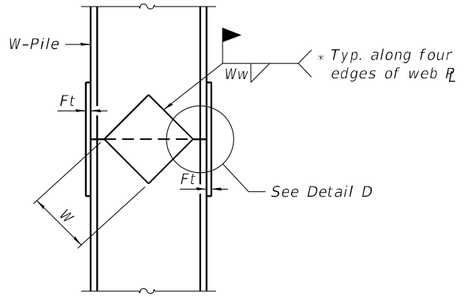
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



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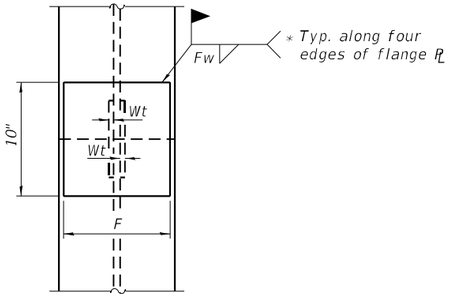
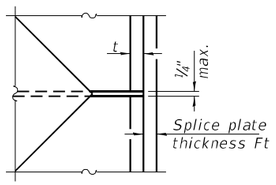


END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
W21x166	10"	1⅞16"	1¼"	10"	½"	⅜"

WELDED PLATE FIELD SPLICE

NOTES:

1. The steel W-piles shall be according to AASHTO M270 Grade 50.
2. Cost of furnishing and erecting splice plates shall be included with Furnishing Soldier Piles (W Section).

* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

F-HP-MODIFIED 1-1-2020

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PLOT DATE =	DATE - 05/11/2021	REVISED -	

HBM ENGINEERING GROUP, LLC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE SPLICE DETAILS
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-07 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	102
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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

BORING LOG HA-NDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.14 ft
North: 1960030.03 ft
East: 1102696.51 ft
Station: 120+24.30
Offset: 37.66 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.6	7-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	PUSH	> 4.50 P	14
	630.1	Hard, brown SILTY CLAY, trace gravel --FILL--			2	PUSH	> 4.50 P	16
		Very stiff to hard, gray SILTY CLAY, trace gravel	5		3	PUSH	3.25 P	25
	626.1	Boring terminated at 6.00 ft	10					
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **09-02-2015** Complete Drilling: **09-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

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BORING LOG HA-NDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 635.02 ft
North: 1959935.81 ft
East: 1102776.54 ft
Station: 121+38.26
Offset: 31.43 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	634.2	10-inch thick, dark brown SILTY LOAM --TOPSOIL--			1	PUSH	> 4.50 P	12
		Hard, brown SILTY CLAY, trace gravel			2	PUSH	> 4.50 P	15
			5		3	PUSH	> 4.50 P	16
	629.0	Boring terminated at 6.00 ft	10					
			15					
			20					
			25					

GENERAL NOTES

Begin Drilling: **09-02-2015** Complete Drilling: **09-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **Geoprobe HA**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

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

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

MODEL: Default
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10/14/2021 10:30:49 AM

HBM ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JMI	REVISED -	
	CHECKED - MAI	REVISED -	
PLOT SCALE =	DRAWN - JMI	REVISED -	
PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 4)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-08 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	103
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG NDB-09

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.99 ft
North: 1960032.50 ft
East: 1102634.19 ft
Station: 119+74.39
Offset: 3.92 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
627.2	9-inch thick, ASPHALT --PAVEMENT--						
626.5	9-inch thick, CONCRETE --PAVEMENT--						
	Very stiff, gray SILTY CLAY,			1	3 2 5	2.71 B	23
624.7	trace gravel						
	Loose to medium dense, gray SILT to SILTY LOAM, interbedded sand and clay --Saturated--	5		2	4 5 10	NP	19
				3	2 3 4	NP	18
620.0							
	Stiff to very stiff, gray SILTY CLAY, trace gravel	10		4	3 3 4	1.48 B	16
				5	6 7 10	3.85 B	13
615.0							
	Dense, gray, coarse SAND, some gravel --Saturated--	15		6	16 19 11	NP	10
612.5							
	Very dense, gray SILT to SILTY LOAM --Wet--			7	18 27 40	NP	16
608.8	--Saturated--						
	Very stiff, gray SILTY CLAY,	20		8	24 13 14	3.36 B	14
608.0	trace gravel						
	Boring terminated at 20.00 ft	25					

GENERAL NOTES

Begin Drilling: **09-03-2015** Complete Drilling: **09-03-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.25 ft**
At Completion of Drilling: **13.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG NDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 629.23 ft
North: 1960019.25 ft
East: 1102685.01 ft
Station: 120+22.15
Offset: 22.07 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.6	8-inch thick, ASPHALT --PAVEMENT--						
627.7	10-inch thick, CONCRETE --PAVEMENT--						
	Stiff, gray SILTY CLAY, trace			1	3 3 3	1.48 B	15
626.0	gravel						
	Medium dense, gray SILT --Damp--	5		2	12 12 14	NP	15
623.7							
	Very stiff, gray SILTY CLAY LOAM, trace gravel			3	3 4 5	2.05 B	14
621.2							
	Medium dense, gray SILT, interbedded very fine sand --Saturated--	10		4	5 7 7	NP	19
618.7							
	Very stiff, gray SILTY CLAY LOAM, trace gravel			5	5 8 9	3.36 B	13
617.2							
	Medium dense, gray, fine SAND --Saturated--						
616.2							
	Very stiff, gray SILTY CLAY, trace gravel			6	6 15 11	3.28 S	14
615.1							
614.6	Medium dense, gray, coarse SAND, some gravel	15					
	Hard, gray SILTY CLAY, trace gravel			7	8 19 22	5.58 B	18
612.5							
	Dense, gray SILT --Saturated--						
609.2		20		8	20 17 13	NP	17
	Boring terminated at 20.00 ft	25					

GENERAL NOTES

Begin Drilling: **09-02-2015** Complete Drilling: **09-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV**
Driller: **R&K** Logger: **D. Kolpacki** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **15.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

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HBM ENGINEERING GROUP, LLC	USER NAME =	DESIGNED - JMI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - MAI	REVISED -	
	PLOT SCALE =	DRAWN - JMI	REVISED -	
	PLOT DATE =	DATE - 05/11/2021	REVISED -	

BORING LOGS (SHEET 2 OF 4)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-09 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	104
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

10/14/2021 10:30:57 AM

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BORING LOG NDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NGVD
Elevation: 631.80 ft
North: 1959940.11 ft
East: 1102741.81 ft
Station: 121+15.175
Offset: LT 6.112

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	631.1	8-inch thick, ASPHALT --PAVEMENT--						
	630.8							
	630.6	4-inch thick, CONCRETE --PAVEMENT--			1	5 4 3	2.50 P	16
		2-inch thick, black SILTY LOAM, trace organic matter --BURIED TOPSOIL--						
		Stiff to very stiff, gray SILTY CLAY, trace gravel	5		2	5 4 3	1.80 B	15
					3	4 4 5	3.00 P	18
	623.8	Loose to medium dense, gray SILT --Wet--	10		4	2 7 8	NP	17
					5	3 4 4	NP	21
		--Sand lenses--	15		6	4 4 6	NP	20
	616.3	Hard, gray SILTY CLAY, trace gravel			7	6 6 8	> 4.50 P	11
	612.8	--Sand lenses--						
	612.6	3-inch thick, gray medium SAND --Wet--	20		8	9 12 22	NP	20
	611.3	Dense, gray SILTY LOAM, trace gravel						
		Hard, gray SILTY CLAY, trace gravel			9	6 9 11	5.99 B	13
	606.8	Boring terminated at 25.00 ft	25		10	6 9 12	6.64 B	15

GENERAL NOTES

Begin Drilling: **07-07-2015** Complete Drilling: **07-07-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME 55**
Driller: **K&R** Logger: **A. Tomaras** Checked by: **B. Wilson**
Drilling Method: **3.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **20.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG SDB-10

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 627.52 ft
North: 1960011.24 ft
East: 1102616.51 ft
Station: 119+70.091
Offset: RT 23.415

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	627.1	5-inch thick, ASPHALT --PAVEMENT--						
	626.4							
	626.2	8-inch thick, CONCRETE --PAVEMENT--			1	2 4 4	NP	19
		3-inch thick, CRUSHED STONE --BASE COURSE--						
	624.5	Loose, gray SANDY LOAM, trace gravel --Moist--	5		2	4 6 8	NP	19
		Loose to medium dense, gray SILTY LOAM, trace gravel --Moist--			3	4 4 4	NP	21
			10		4	2 4 5	NP	15
	617.0	Very stiff to hard, gray SILTY CLAY LOAM, trace gravel			5	3 6 10	2.46 B	14
			15		6	3 6 9	5.25 B	18
	612.0	Medium dense, gray SILTY LOAM, trace gravel --Dry--			7	8 12 15	NP	13
	608.5							
	607.5	Hard, gray SILTY CLAY LOAM, trace gravel	20		8	6 14 14	7.79 S	13
		Boring terminated at 20.00 ft	25					

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

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USER NAME =	DESIGNED - JMI	REVISED -	
	CHECKED - MAI	REVISED -	
PLOT SCALE =	DRAWN - JMI	REVISED -	
PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 3 OF 4)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-10 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	105
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG SDB-11

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 629.17 ft
North: 1959966.81 ft
East: 1102675.92 ft
Station: 120+49.11
Offset: RT 23.88

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	628.8	4-inch thick, ASPHALT --PAVEMENT--					
	628.2	8-inch thick, CONCRETE --PAVEMENT--					
	626.2	Stiff, gray CLAY, trace gravel	X	1	2 2 2	1.64 B	25
		Medium dense, gray SILTY LOAM --Dry--					
5			X	2	6 7 8	NP	16
	622.7	Medium dense, gray SANDY LOAM to SAND, trace gravel --Wet--	X	3	5 6 6	NP	17
10 ▽			X	4	3 8 8	NP	13
	617.2	Stiff, gray SILTY CLAY LOAM to LOAM, trace gravel	X	5	5 6 8	NP	24
15			X	6	3 11 11	1.50 P	16
	613.7	Very dense, gray SILTY LOAM, trace gravel --Wet--	X	7	8 24 26	NP	14
20			X	8	12 26 25	NP	15
	607.9	Medium dense, gray LOAM, trace gravel --Moist--	X	9	19 16 13	NP	15
	606.2	Hard, gray SILTY CLAY LOAM, trace gravel	X	10	7 10 14	6.15 B	15
25	604.2	Boring terminated at 25.00 ft					

GENERAL NOTES

Begin Drilling: **06-26-2015** Complete Drilling: **06-26-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

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BORING LOG SDB-12

WEI Job No.: 491-02-03

Client: **Accurate Group, Inc.**
Project: **US 14 under CN/UP RR**
Location: **Des Plaines, IL**

Datum: NAVD
Elevation: 632.99 ft
North: 1959887.84 ft
East: 1102747.46 ft
Station: 121+62.079
Offset: RT 19.205

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	632.7	4-inch thick, ASPHALT --PAVEMENT--					
	632.0	8-inch thick, CONCRETE --PAVEMENT--					
	631.8	2-inch thick, CRUSHED STONE --BASE COURSE--	X	1	2 2 3	3.28 B	19
		Stiff to very stiff, gray SILTY CLAY, trace gravel					
5			X	2	2 2 4	1.89 B	18
	625.0	Very stiff, gray CLAY, trace gravel	X	3	3 4 6	1.50 P	19
10			X	4	2 3 3	2.13 B	23
	622.5	Loose to medium dense, gray SILTY LOAM --Moist--	X	5	2 3 4	NP	23
15			X	6	4 5 7	NP	19
	615.0 ▽	Medium dense, gray SANDY LOAM --Wet--	X	7	4 6 5	NP	21
20			X	8	4 6 5	NP	21
	612.5	Hard, gray SILTY CLAY LOAM, trace gravel	X	9	5 8 12	6.48 B	16
25			X	10	6 8 12	10.25 S	13
30	603.0	Boring terminated at 30.00 ft	X	11	5 9 13	7.95 S	13
			X	12	4 11 16	5.90 S	10
35							
40							
45							
50							

GENERAL NOTES

Begin Drilling: **06-25-2015** Complete Drilling: **06-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR**
Driller: **K&K** Logger: **A. Happel** Checked by: **B. Wilson**
Drilling Method: **2.25 IDA HSA; Backfilled upon completion**

WATER LEVEL DATA

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

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

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

WANGENGINC 4910203.GPJ WANGENG.GDT 10/26/15

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10/14/2021 10:31:15 AM

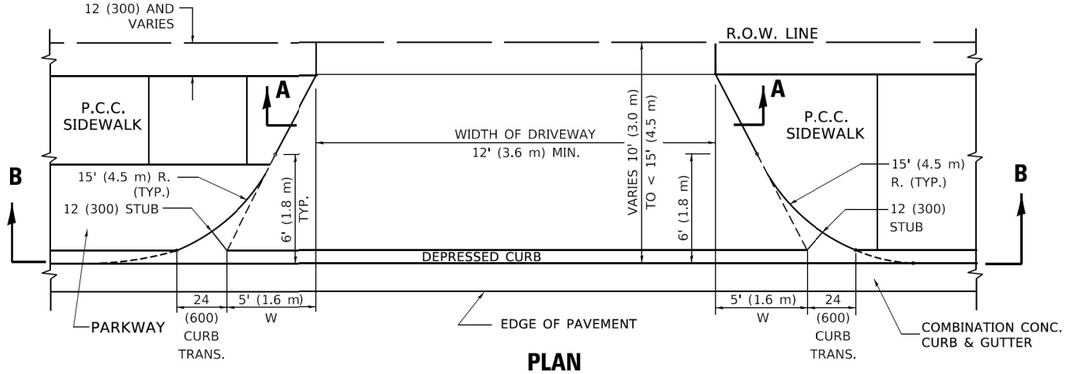
HBM ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JMI	REVISED -	
	CHECKED - MAI	REVISED -	
PLOT SCALE =	DRAWN - JMI	REVISED -	
PLOT DATE =	DATE - 05/11/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

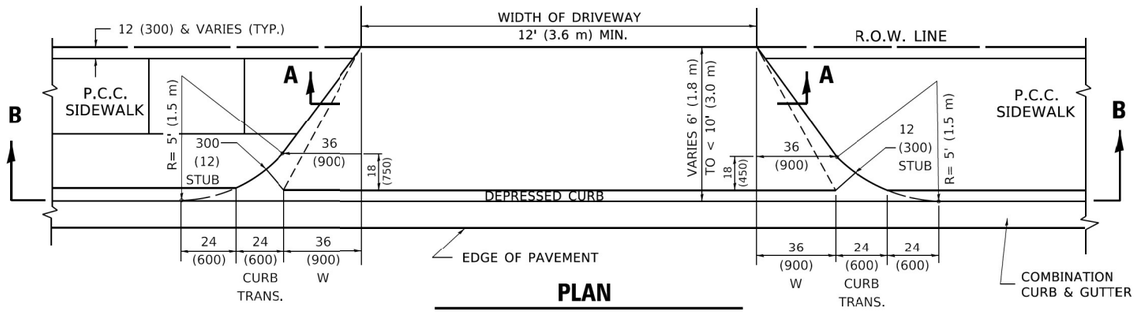
BORING LOGS (SHEET 4 OF 4)
RETAINING WALL 2 (STRUCTURE NO. 016-9201)
SHEET S2-11 OF S2-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	106
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		



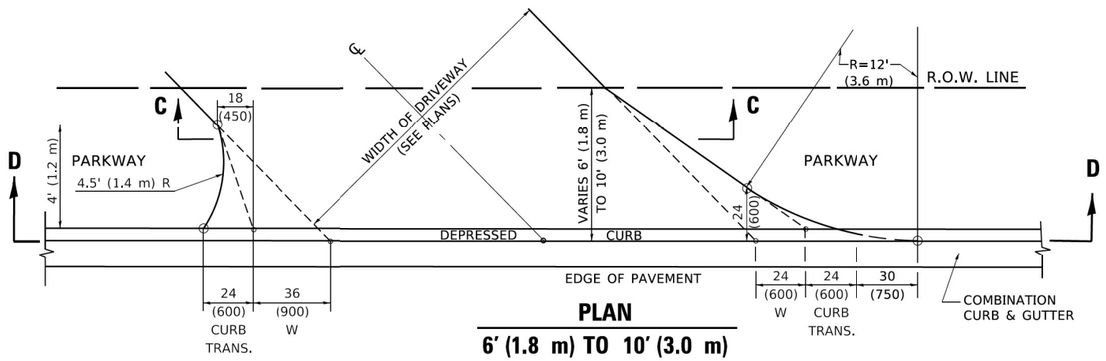
PLAN

10′ (3.0 m) TO < 15′ (4.5 m)



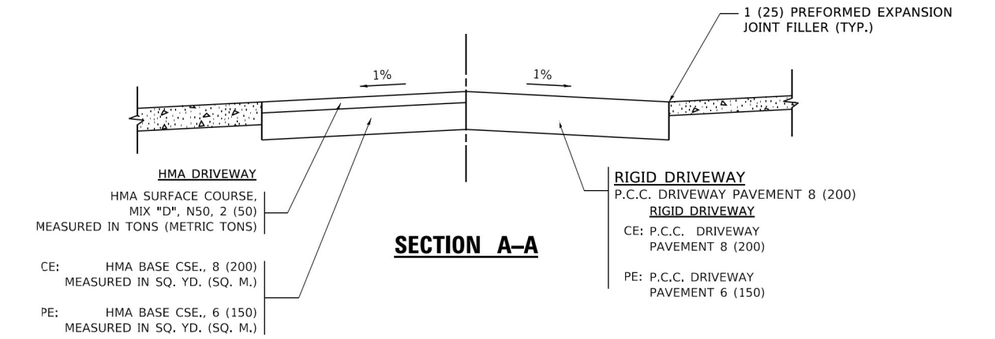
PLAN

6′ (1.8 m) TO < 10′ (3.0 m)



PLAN

6′ (1.8 m) TO 10′ (3.0 m)



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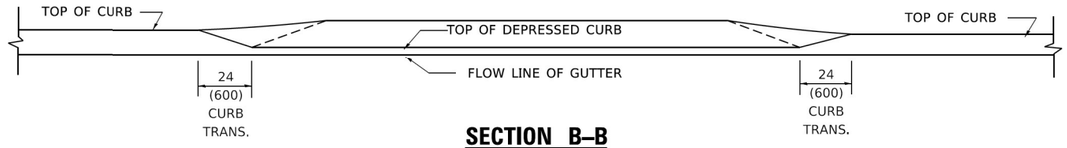

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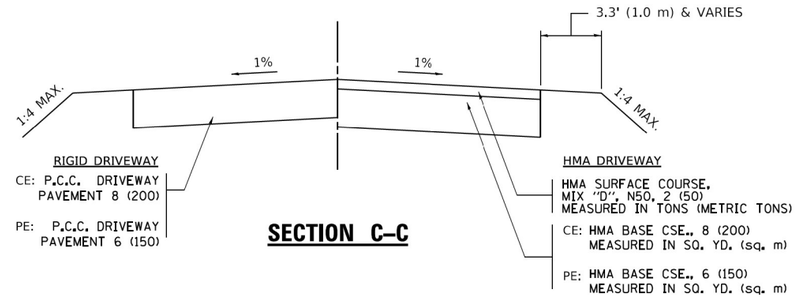

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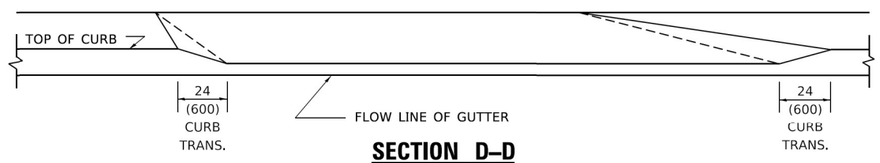

SECTION D–D

GENERAL NOTES

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

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

USER NAME = footemj	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	
	DRAWN -	REVISED - P. LaFLUER 04-15-03	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 3/27/2019	DATE - 11-06-95	REVISED - R. BORO 09-06-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	107
	BD400–02 (BD–02)	CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			

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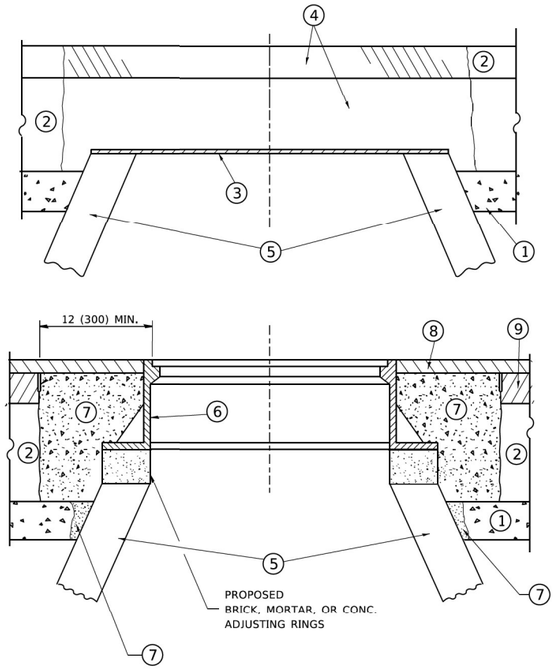

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 * CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

NOTES

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

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

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

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

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj	DESIGNED - R. SHAH	REVISED - R. WEDEMAN 05-14-04	
	DRAWN -	REVISED - R. BORO 01-01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11	
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	115
	BD600-03 (BD-8)	CONTRACT NO.	62H38	
	ILLINOIS FED. AID PROJECT SVKO(134)			

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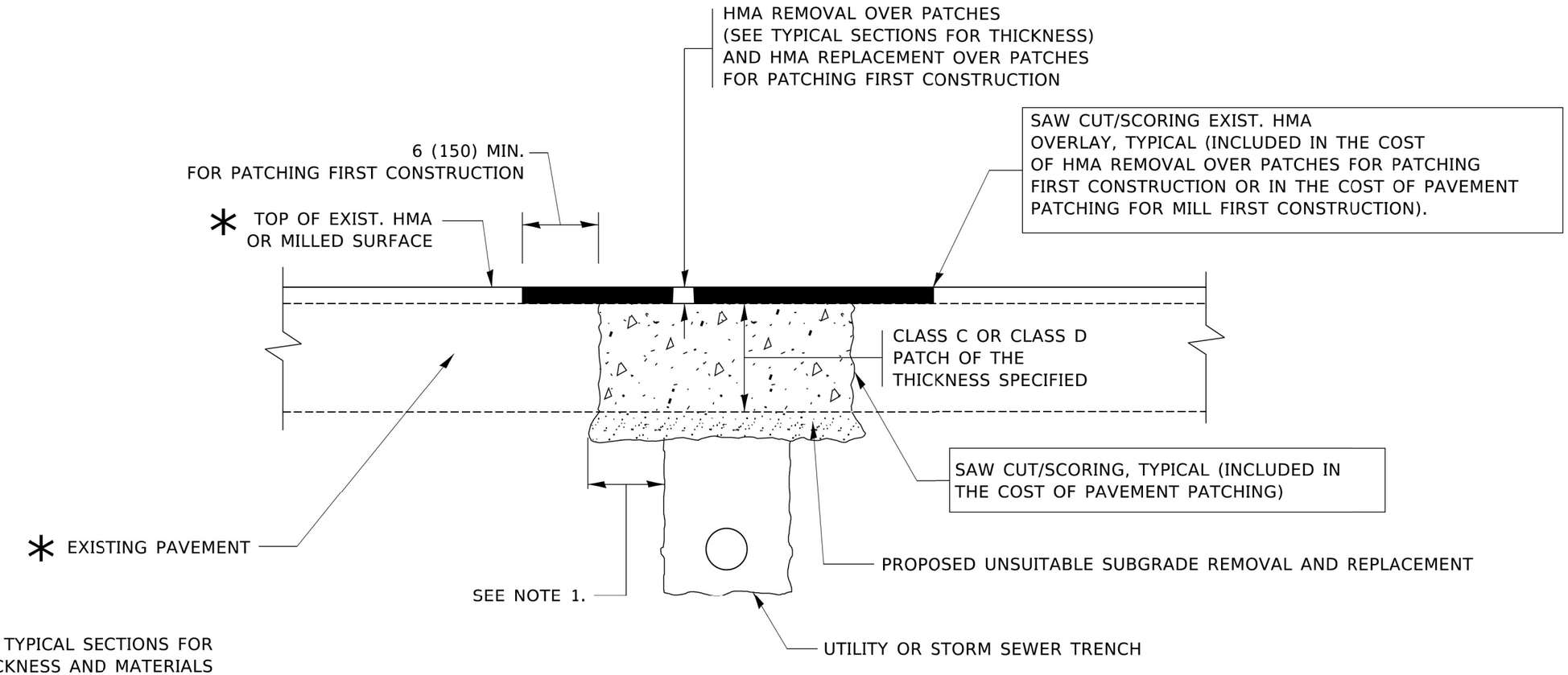

* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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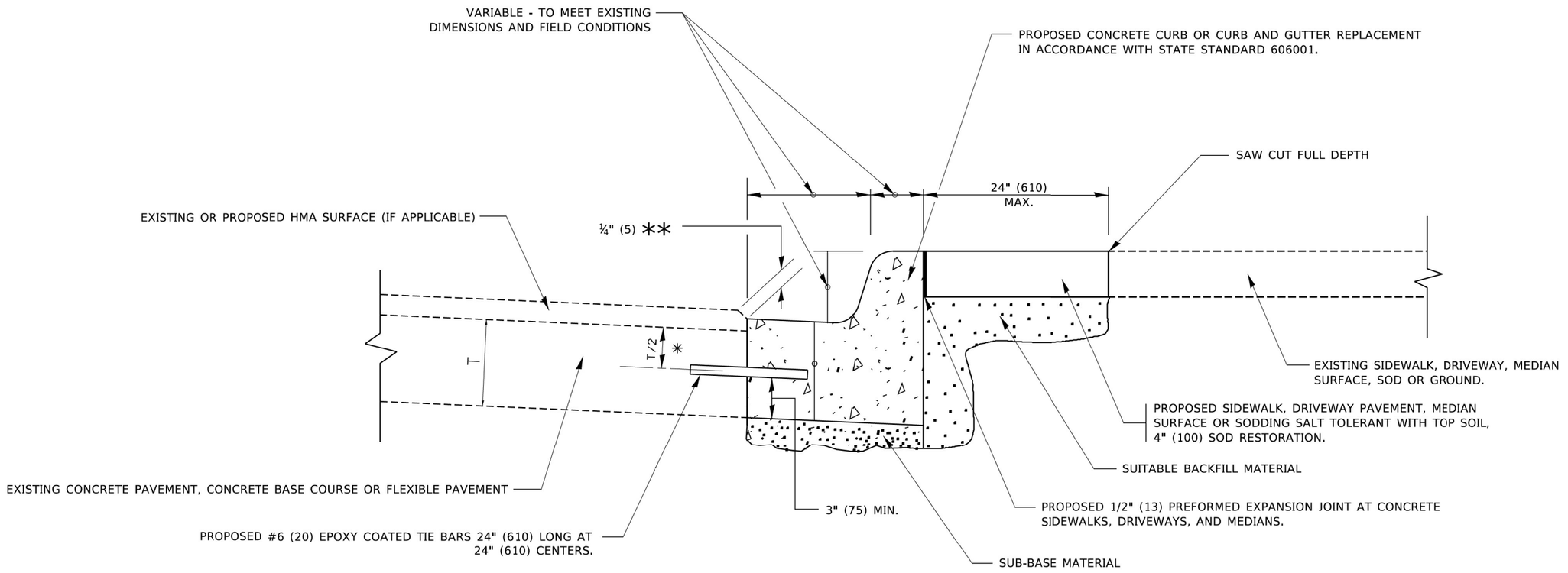
	DRAWN -	REVISED - R. BORO 01-01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	109
	BD400–04 (BD–22)	CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



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

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - M. GOMEZ 01-22-01	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09	
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19	

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	110
	BD600-06 (BD-24)	CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKO(134)			

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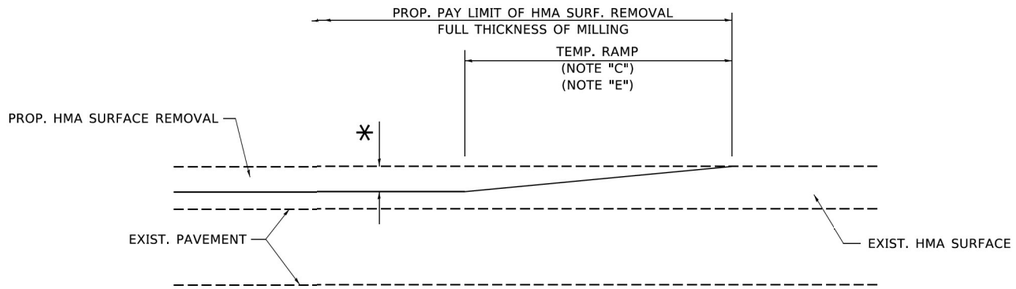
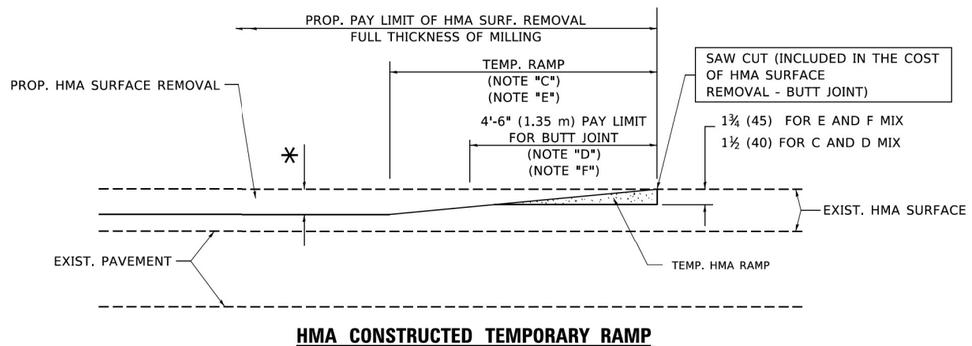


MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

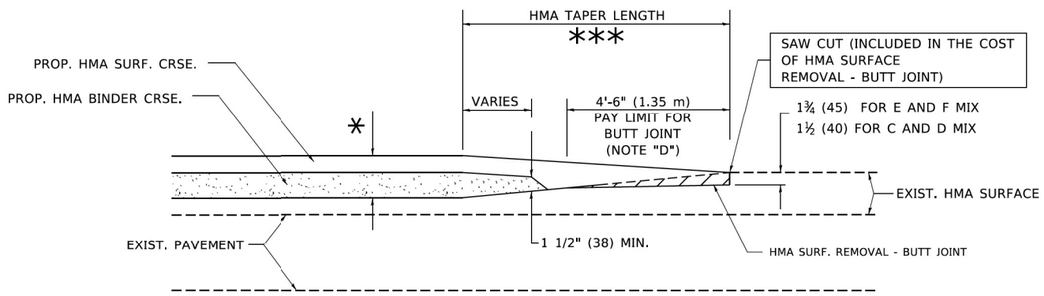


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

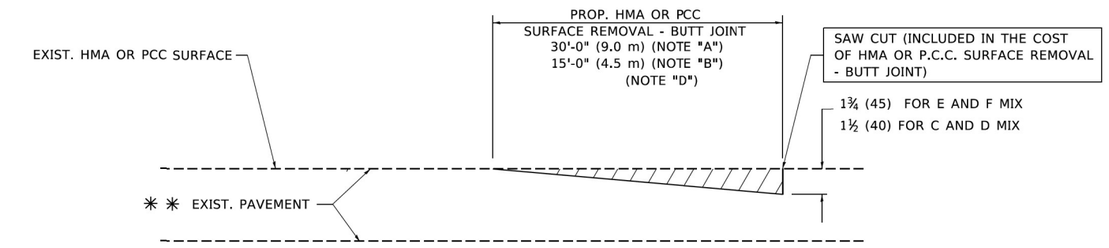
OPTION 2

TYPICAL TEMPORARY RAMP

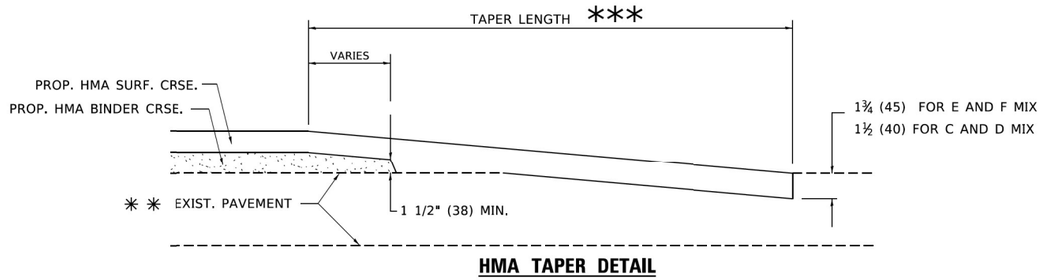


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B. MINOR SIDE ROADS.

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

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

E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

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

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
	DRAWN -	REVISED - A. ABBAS 03-21-97	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01	
PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	111
	BD400–05 BD32	CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKQ(134)			

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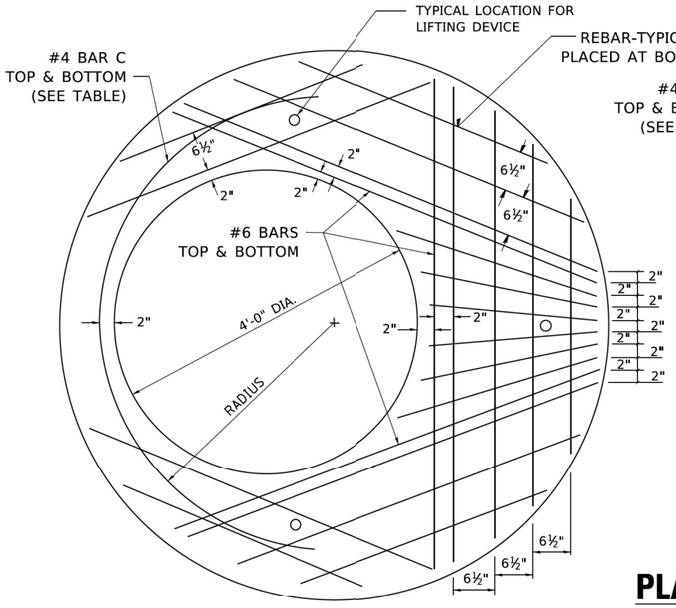
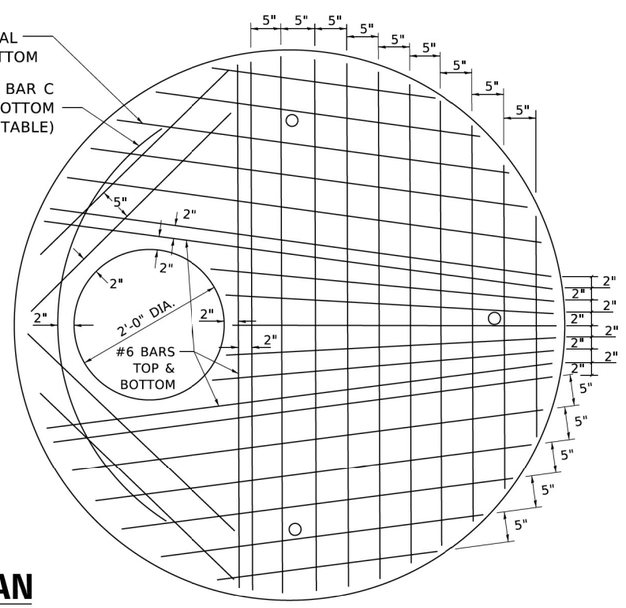
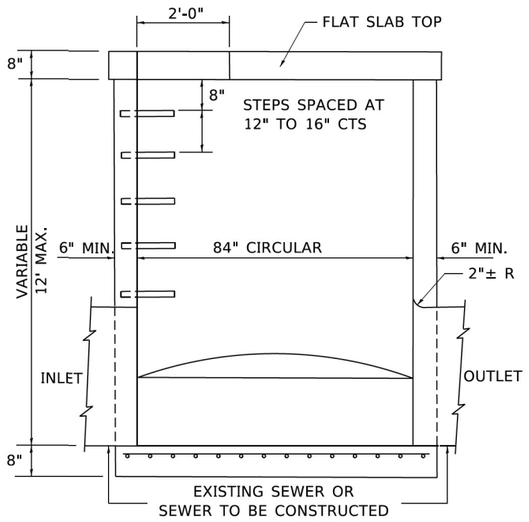




PLAN

SHOWING REBAR REINFORCEMENT



ELEVATION

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

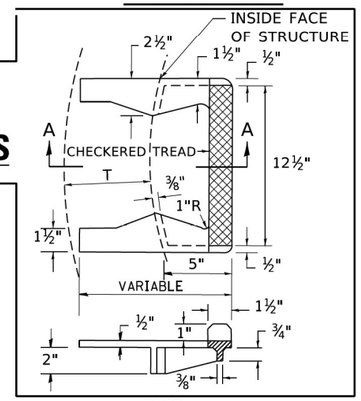
PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

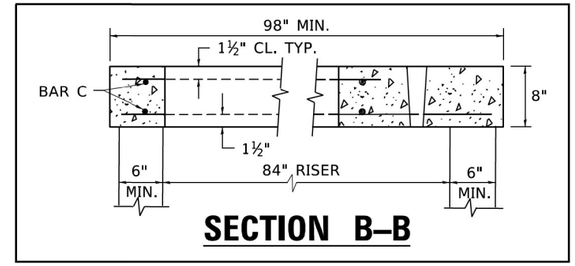
BOTTON SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

SEC. A–A CAST IRON STEPS





SECTION B–B

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"

PLAN

SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE:

THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

TABLE

DIAMETER OF OPENING	REINFORCEMENT "A_S" WWF OR EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

ELEVATION

USER NAME = footemj	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/27/2019	DATE - 10-18-02	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A
7 FOOT DIAMETER

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	112
BD600–11 (BD–37)	CONTRACT NO. 62H38			
	ILLINOIS FED. AID PROJECT SVKQ(134)			

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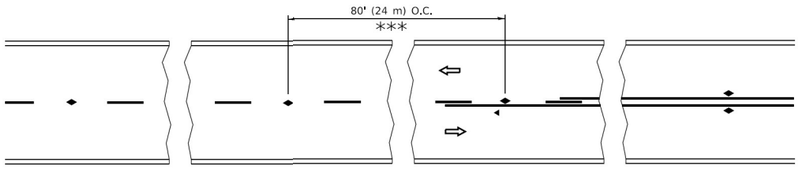
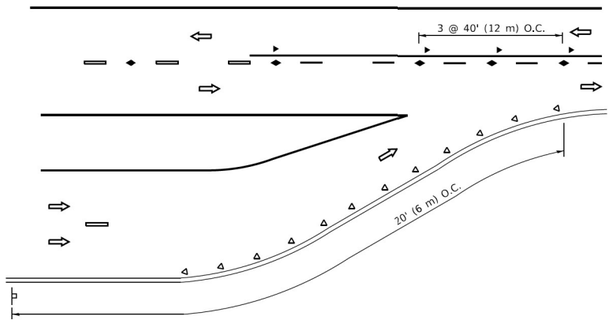


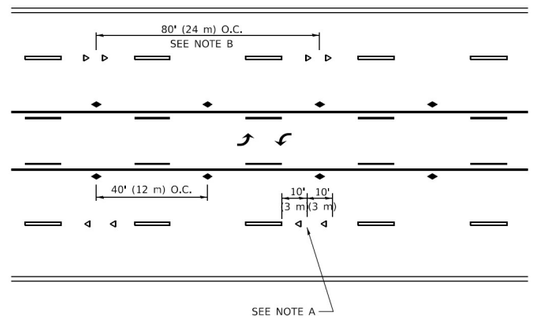
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

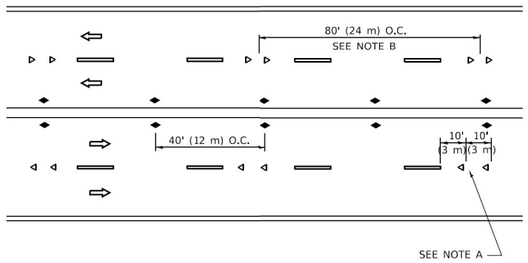
SEE FIGURE 3B-14 MUTCD



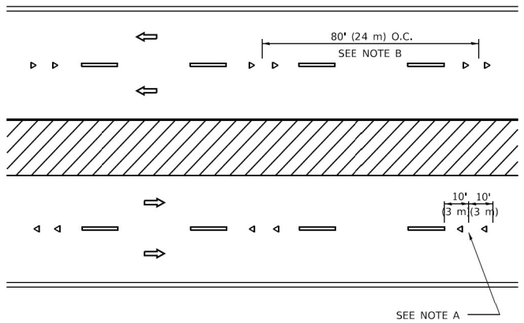
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

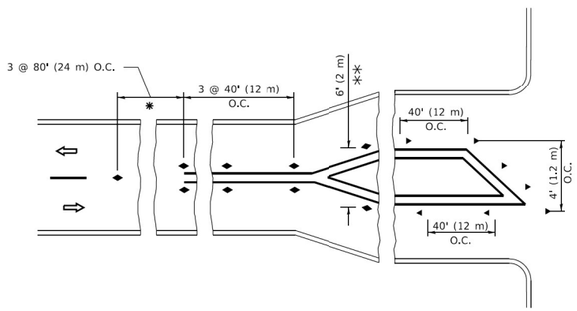
LANE MARKER NOTES

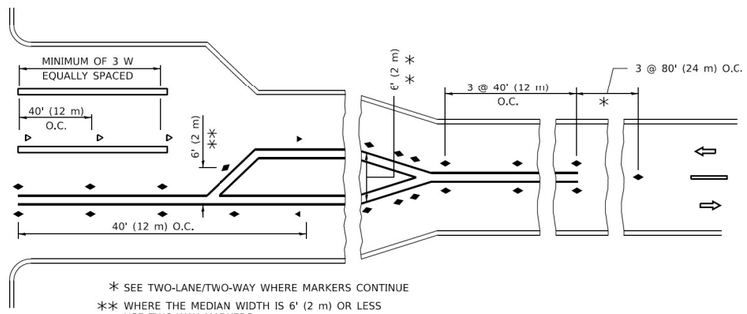
A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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

DESIGN NOTES

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





* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

TURN LANES

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

FILE NAME = Q:\Engineering\Live Projects\2005_IDOT DIR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D1621H38-sht-Dist Stds.dgn

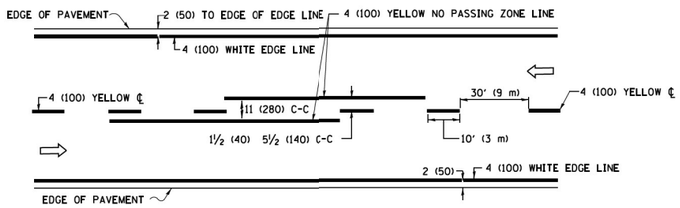
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

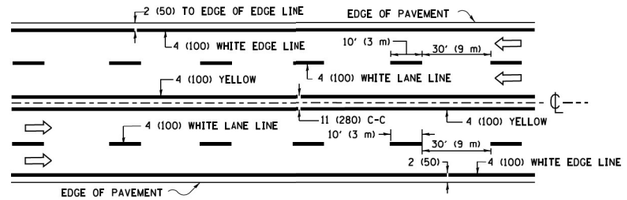
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

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

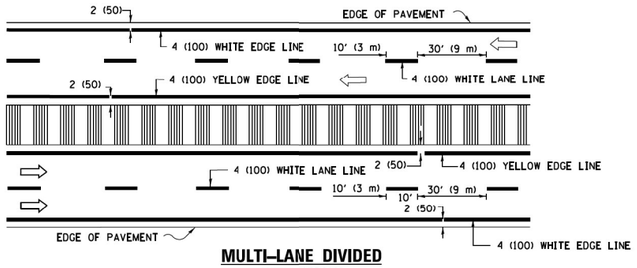
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	113
	TC-11	CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKO(134)		



2–LANE ROADWAY

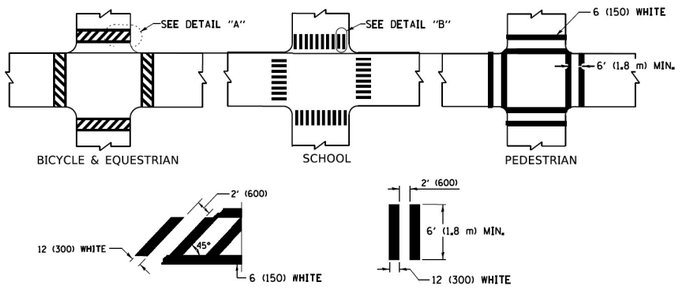


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

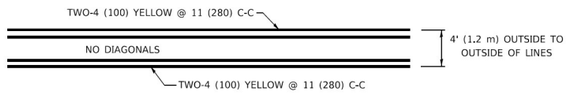
TYPICAL LANE AND EDGE LINE MARKING



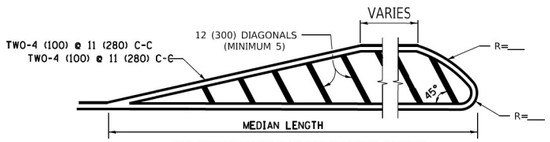
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



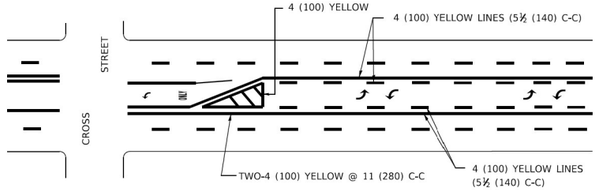
4' (1.2 m) WIDE MEDIANS ONLY



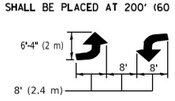
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

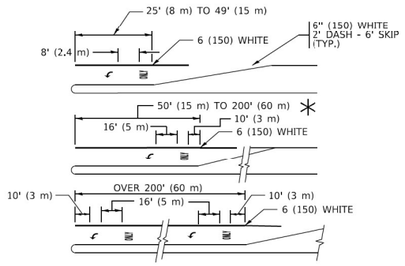


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

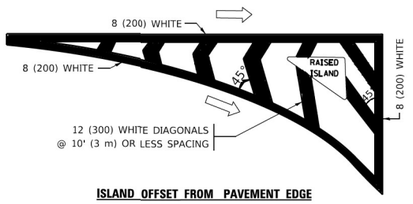


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

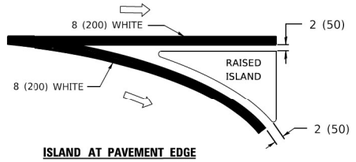
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

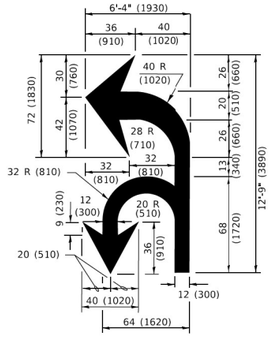


ISLAND OFFSET FROM PAVEMENT EDGE

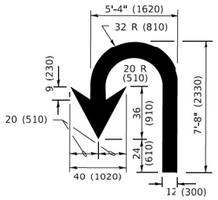


ISLAND AT PAVEMENT EDGE

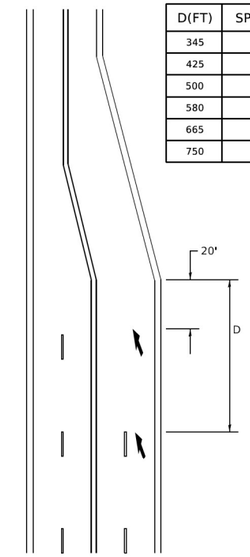
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
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.

FILE NAME = Q:\Engineering\Live\Projects\2018\5_IDOT DIR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-Dist Stds.dgn

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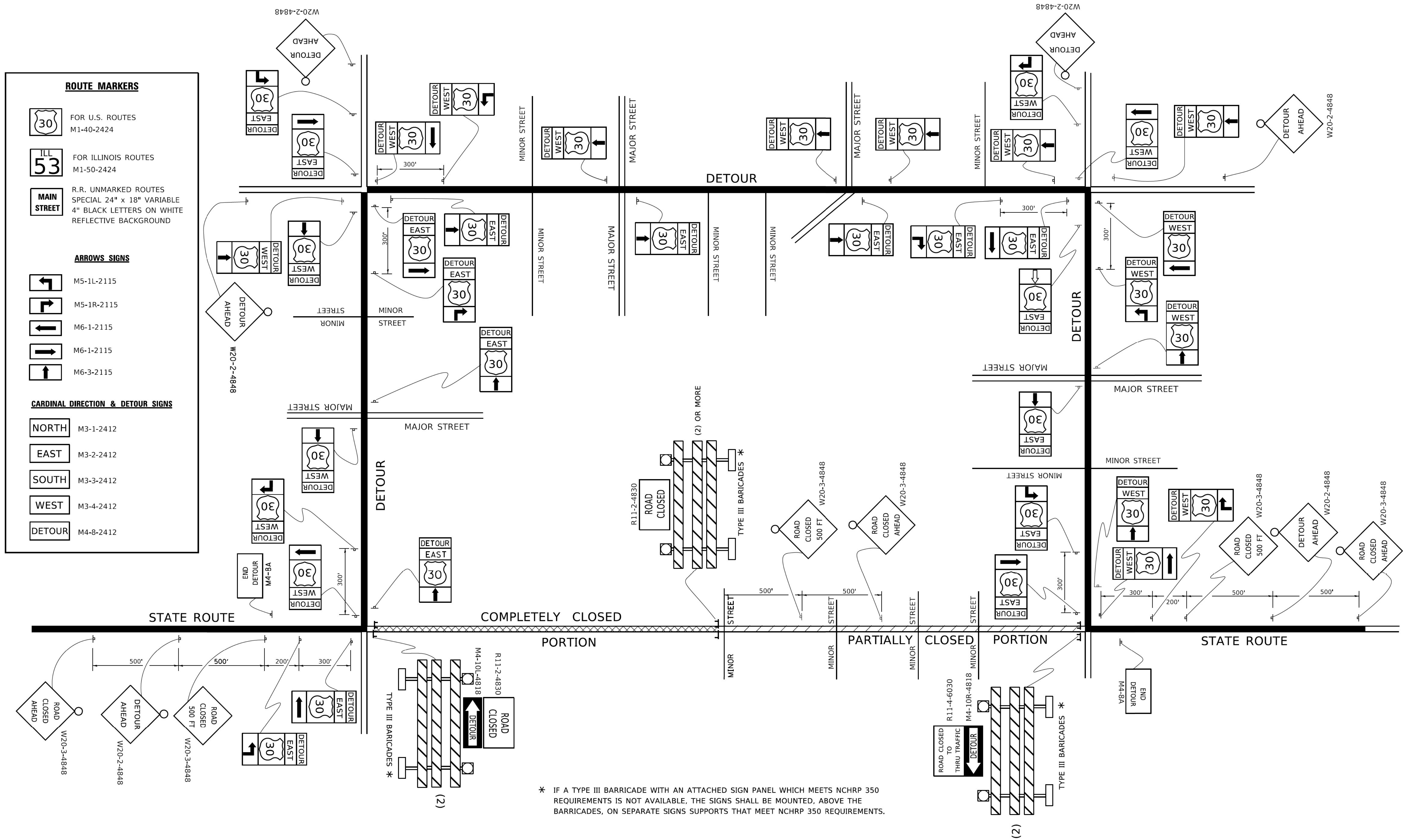
	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	114
	TC–13	CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		



* 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 = Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-Dist Stds.dgn

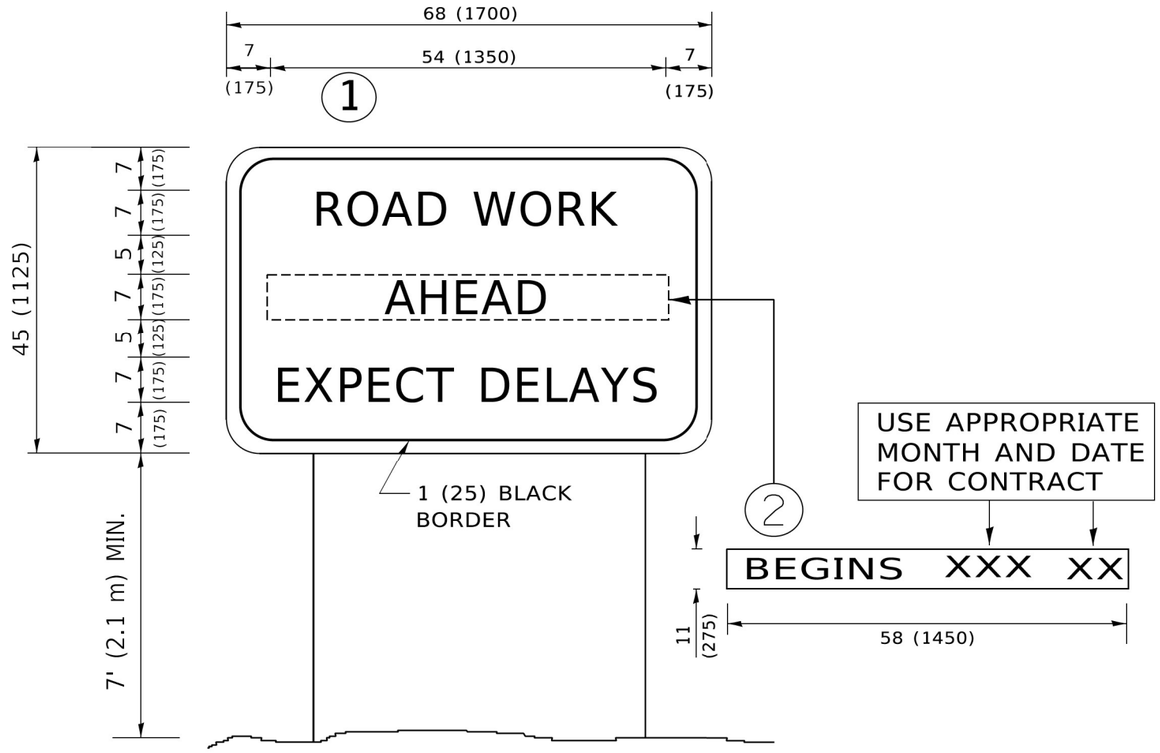
USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	127	112
	TC–21	CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT SVKQ(134)		



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.

FILE NAME = Q:\Engineering\LivePrjects\2085_IDOT DURWG 11 62H38\CADD\CADD Sheets\Civil\D162H38-stt-Dist Stds.dgn

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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	116
	TC-22	CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT SVKQ(134)			

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

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

FILE NAME = Q:\Engineering\LiveProjects\2000s IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-X=-11000 to 11250.dgn

EXISTING WATER MAIN
EXISTING 6" GAS
EXISTING 4" GAS
PROPOSED 12" STORM SEWER
CUT: 12.11 SQ FT
EXIST. R.O.W.
EXISTING TELEPHONE
EXISTING FIBER OPTIC
EXISTING ELECTRIC
111 + 00.00
110 + 50.00
110 + 00.00

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 110+00.00 | TO STA. 111+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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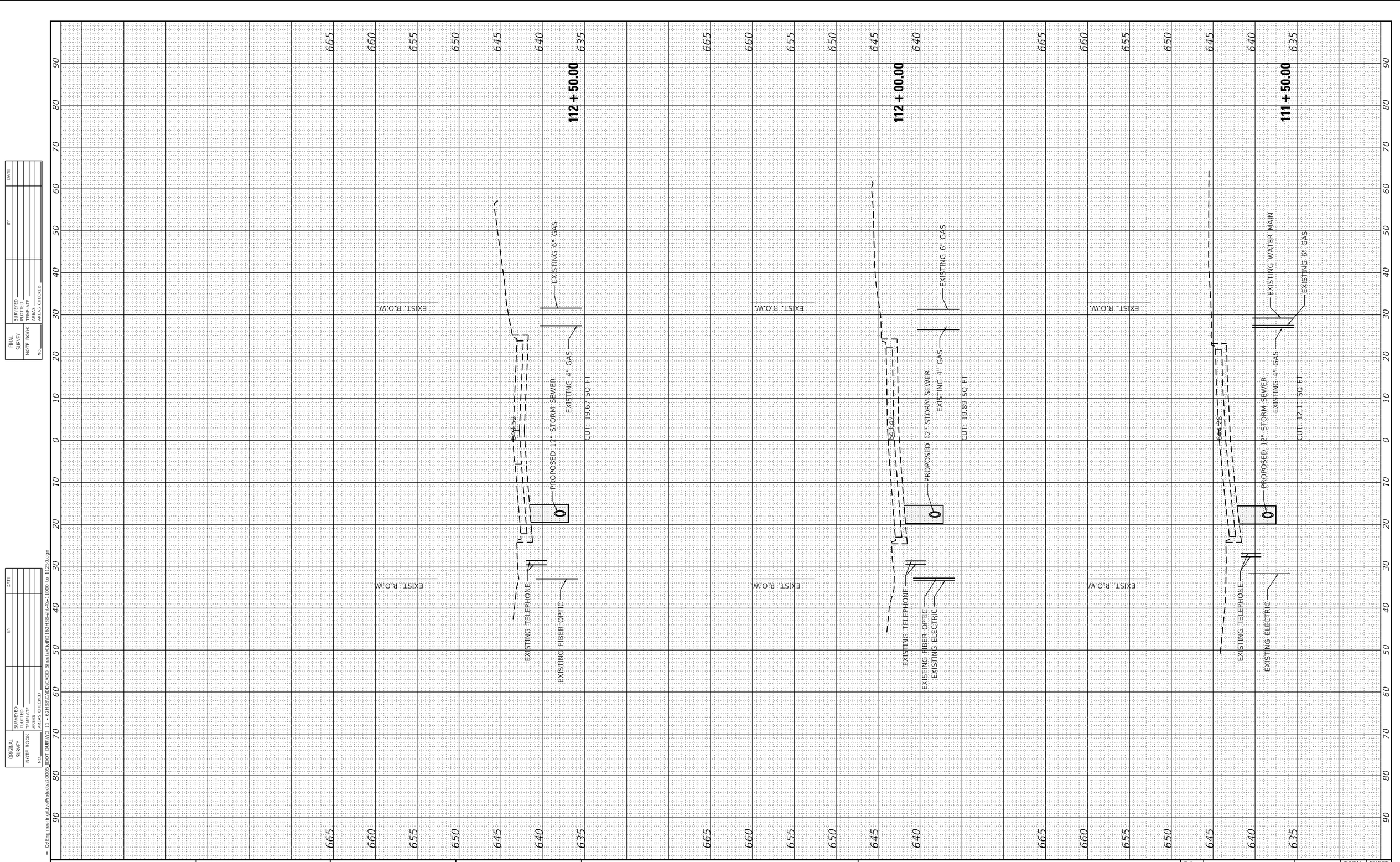
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	



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

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

FILE NAME = Q:\Engineering\LiveProjects\2005 IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162438-sht-X=-11000 to 11250.dgn

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 111+50.00 | TO STA. 112+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	118
		CONTRACT NO. 60H38		
		ILLINOIS	FED. AID PROJECT	

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

114 + 00.00

EXISTING 6" GAS

CUT: 16.52 SQ FT

EXIST. R.O.W.

PR. R.O.W.

EXISTING TELEPHONE

EXISTING FIBER OPTIC

PROPOSED 12" STORM SEWER

113 + 50.00

EXISTING 15" STORM SEWER

EXISTING ELECTRIC

EXISTING 6" GAS

CUT: 16.11 SQ FT

EXIST. R.O.W.

EXISTING TELEPHONE

EXISTING FIBER OPTIC

EXISTING ELECTRIC

PROPOSED 12" STORM SEWER

113 + 19.31

COMMERCIAL ENTRANCE

EXISTING 8" GAS

EXISTING GAS

EXISTING 30" GAS

EXISTING TELEPHONE

PROPOSED 12" STORM SEWER

113 + 00.00

EXISTING 6" GAS

CUT: 18.49 SQ FT

EXISTING TELEPHONE

PROPOSED 12" STORM SEWER

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

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Accurate GROUP, INC.

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	DRAWN - JN		REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM		REVISED -
PLOT DATE = 10/15/2021	DATE - 10/18/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 113+00.00 | TO STA. 114+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	119
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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

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

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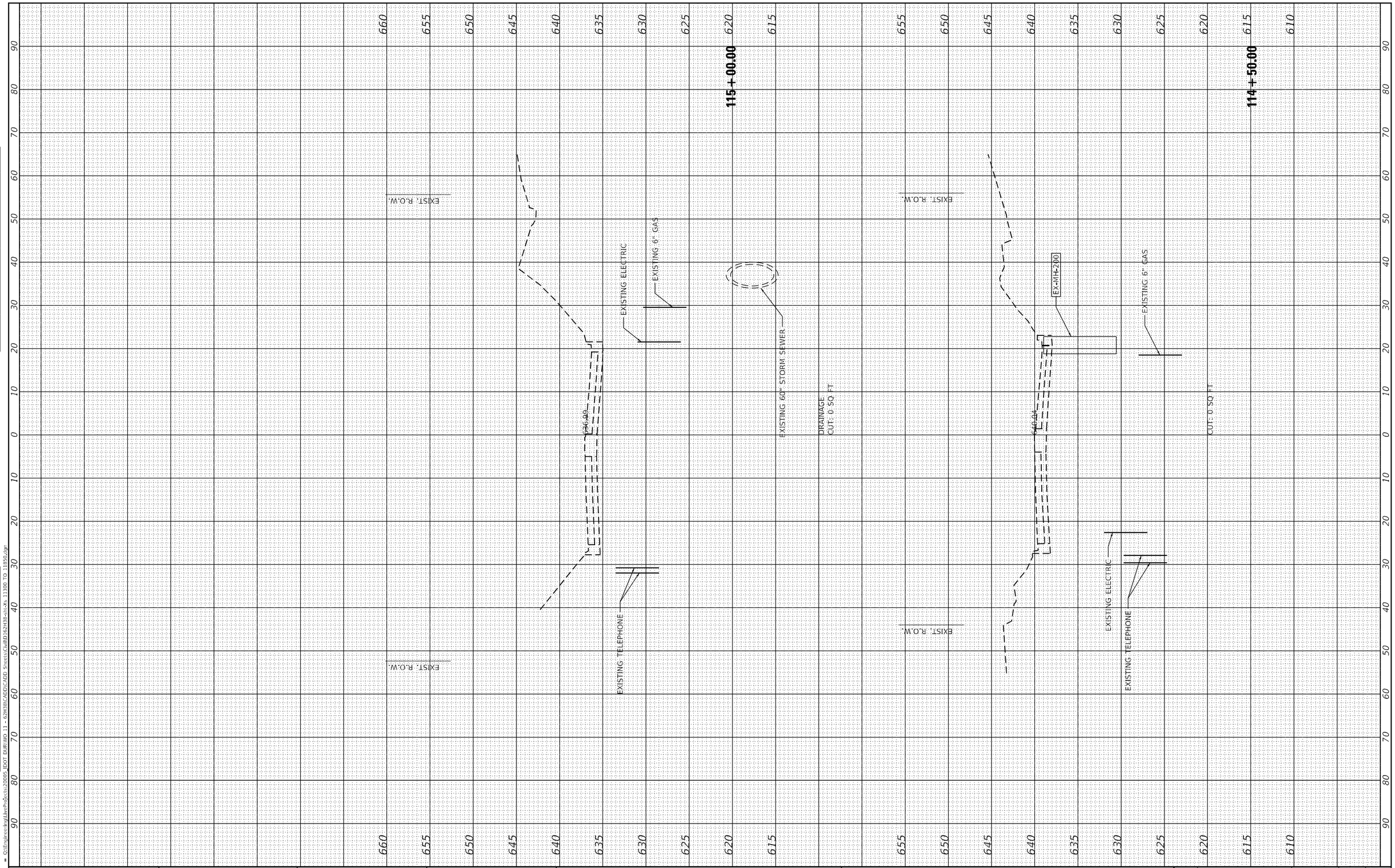

Accurate GROUP, INC.	USER NAME = Jdavis	DESIGNED - JN	REVISED -
		DRAWN - JN	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 10/15/2021	DATE - 10/18/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 114+50.00 | TO STA. 115+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	120
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY

NOTE BOOK	SURVEYED	80'	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY

NOTE BOOK	SURVEYED	80'	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
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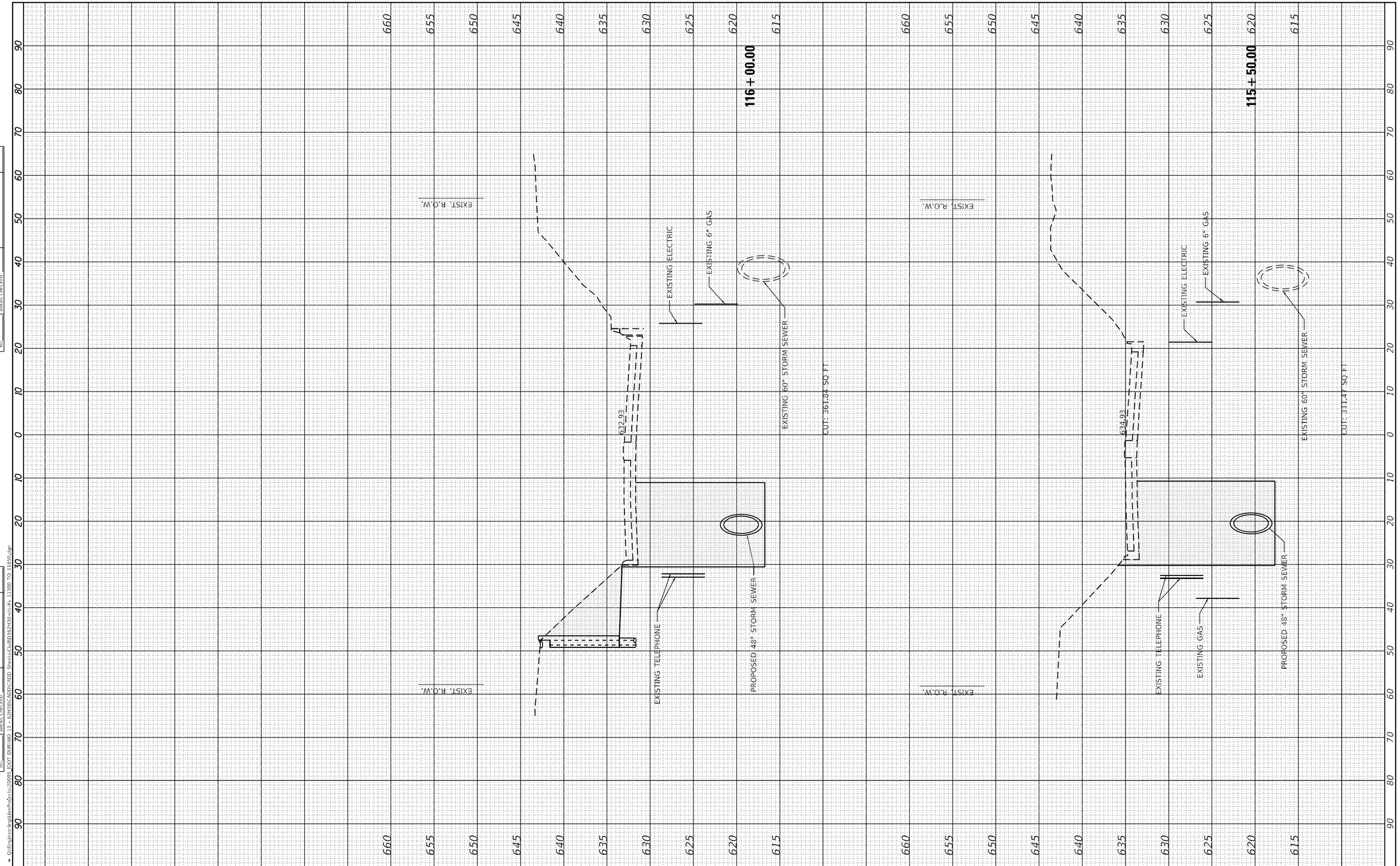


Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 115+50.00 | TO STA. 116+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	121
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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

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

FILE NAME = c:\Engineering\Live Projects\20095 IDOT DUR\WO 111 - 62H38\CADD\CADD Sheets\CivilD\162H38-sht-Xs 11300 TO 11850.dgn

ELEV. 629.02

1628.70

EXISTING 20" WATER ELEVATION UNKNOWN

EXISTING ELECTRIC

EXISTING 6" GAS

EXISTING 60" STORM SEWER

EXISTING STORM SEWER

CUT: 265.97 SQ FT
FILL: 10.15 SQ FT

EXIST. R.O.W.

PROPOSED 48" STORM SEWER

EXISTING TELEPHONE

EXISTING STORM SEWER

117+50.00

ELEV. 630.42

634.47

EXISTING ELECTRIC

EXISTING STORM SEWER

EXISTING 6" GAS

EXISTING 60" STORM SEWER

CUT: 277.62 SQ FT

EXIST. R.O.W.

PROPOSED 48" STORM SEWER

EXISTING TELEPHONE

EXISTING STORM SEWER

117+00.00

631.46

EXISTING ELECTRIC

EXISTING STORM SEWER

EXISTING 6" GAS

EXISTING 60" STORM SEWER

CUT: 299.93 SQ FT
FILL: 0.25 SQ FT

EXIST. R.O.W.

EXISTING TELEPHONE

EXISTING STORM SEWER

PROPOSED 48" STORM SEWER

116+50.00

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

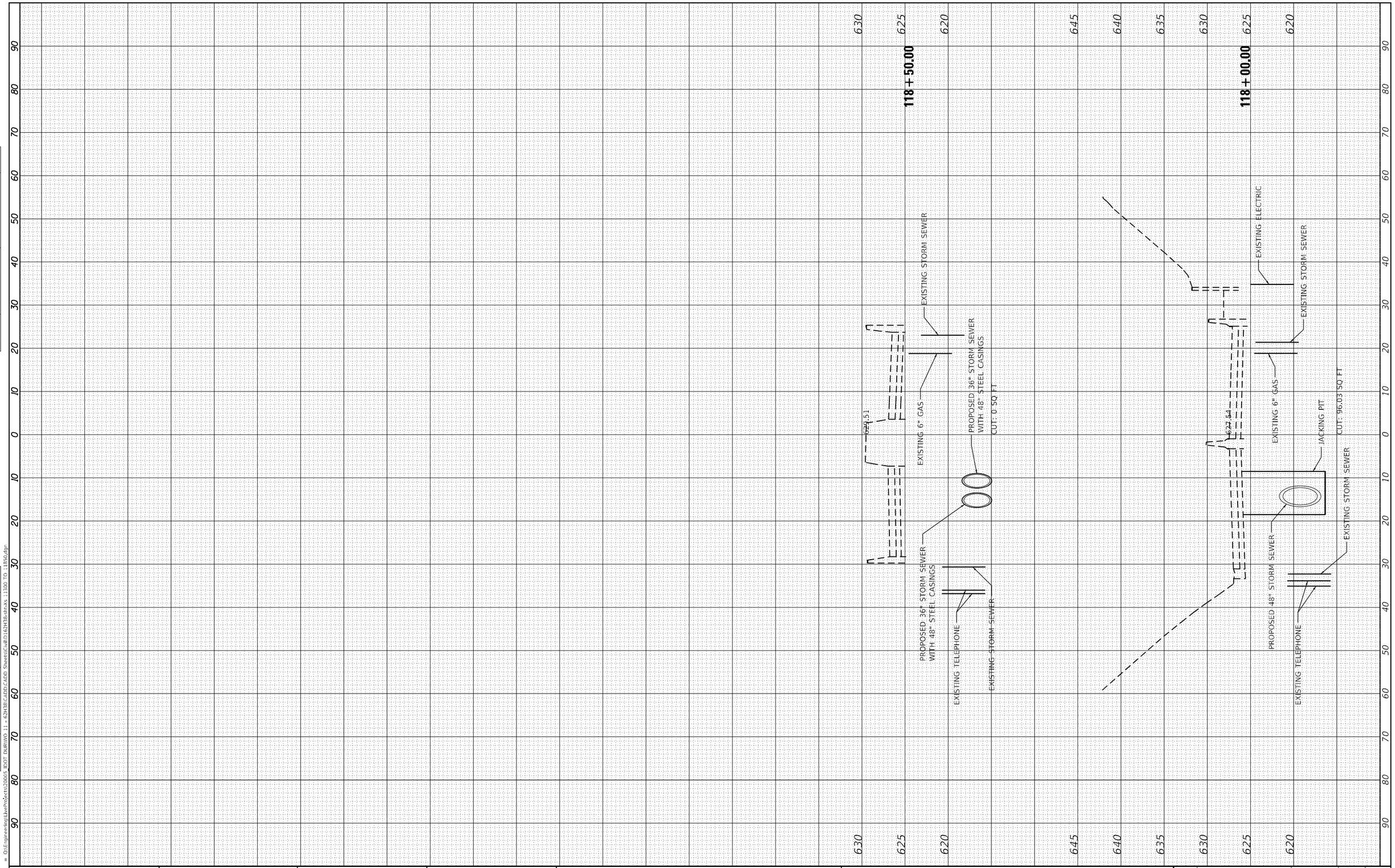
CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 116+50.00 | TO STA. 117+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	122
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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

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



FILE NAME = Q:\Engineering\LiveProjects\20065 IDOT DuPage\WO 11 - 62H38\CADD\CADD Sheets\Civil\162H38-dirx-xs 1300 TO 1850.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JN		REVISED -
	DRAWN - JN		REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM		REVISED -
PLOT DATE = 1/27/2022	DATE - 07/30/2021		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 118+00.00 | TO STA. 118+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	123
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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

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

FILE NAME = O:\Engineering\LiveProjects\20005_IDOT DURWO 11 - 62H38\CADD\CADD Sheets\CivilD162H38-sht-xS 11900 to 14400.dgn

EX. R.O.W.

EXISTING 6" GAS

PROPOSED 48" STORM SEWER

CUT: 317.49 SQ FT

120+00.00

EXISTING TELEPHONE

PROPOSED 48" STORM SEWER

EX. R.O.W.

119+50.00

EXISTING 6" GAS

PROPOSED 36" STORM SEWER WITH 48" STEEL CASINGS

CUT: 0 SQ FT

EXISTING TELEPHONE

PROPOSED 36" STORM SEWER WITH 48" STEEL CASINGS

119+00.00

EXISTING TELEPHONE

EXISTING 6" GAS

PROPOSED 36" STORM SEWER WITH 48" STEEL CASINGS

CUT: 0 SQ FT

Accurate GROUP, INC.

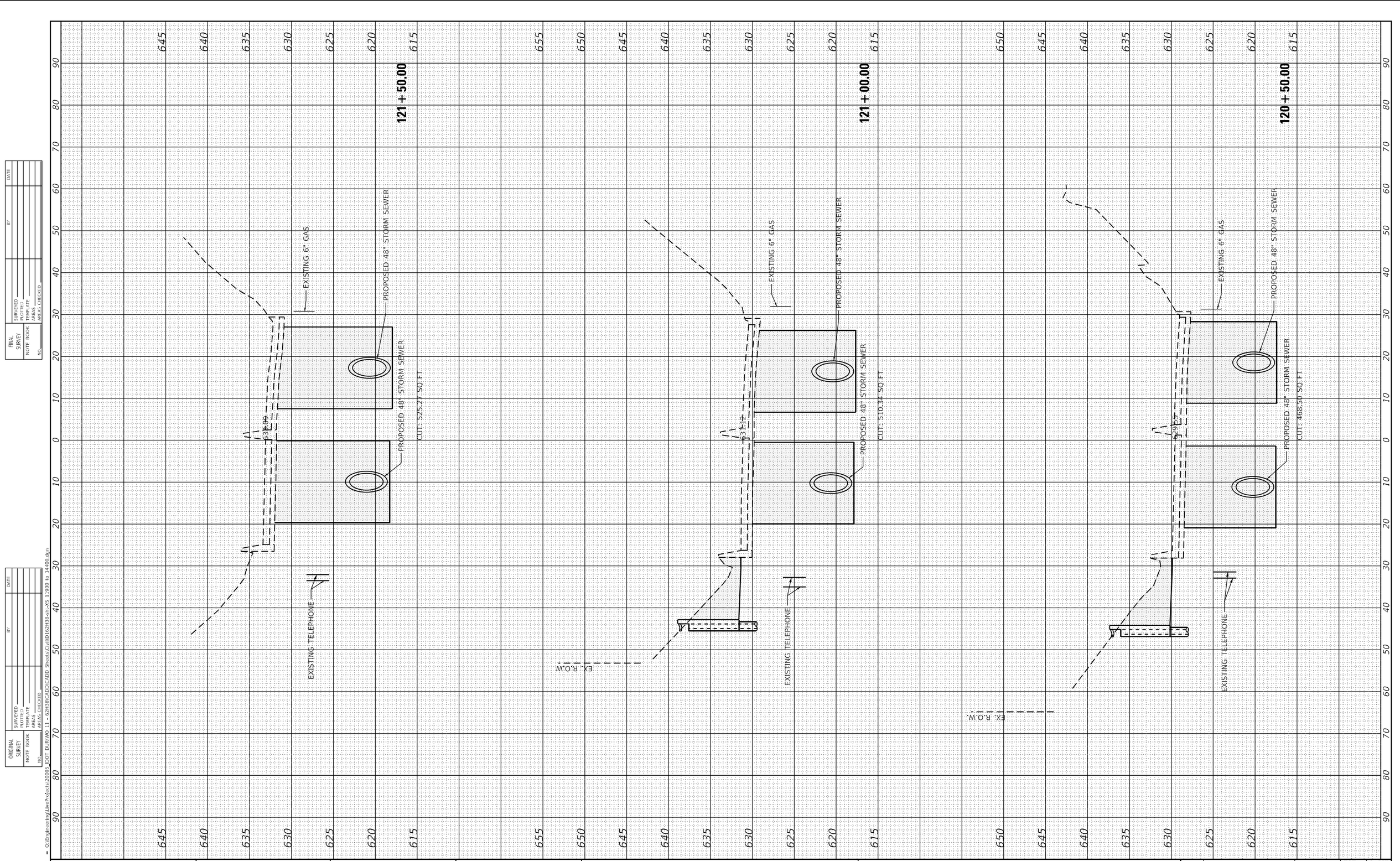
USER NAME = jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 1/27/2022	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 119+00.00 | TO STA. 120+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	124
		CONTRACT NO. 62H38		
	ILLINOIS	FED. AID PROJECT		



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

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

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Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 120+50.00 | TO STA. 121+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	125
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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

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

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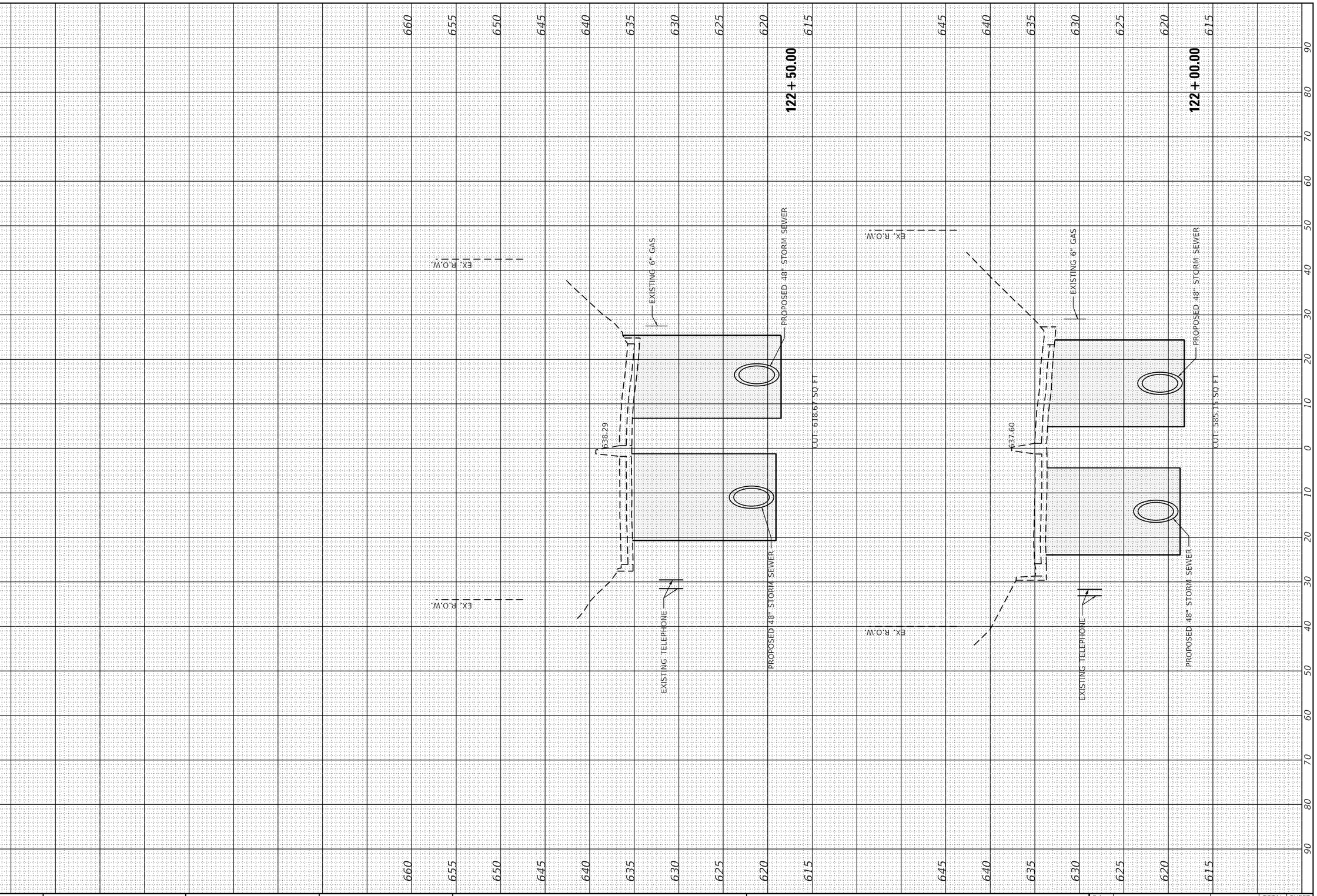


Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JN	REVISED -
		DRAWN - JN	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

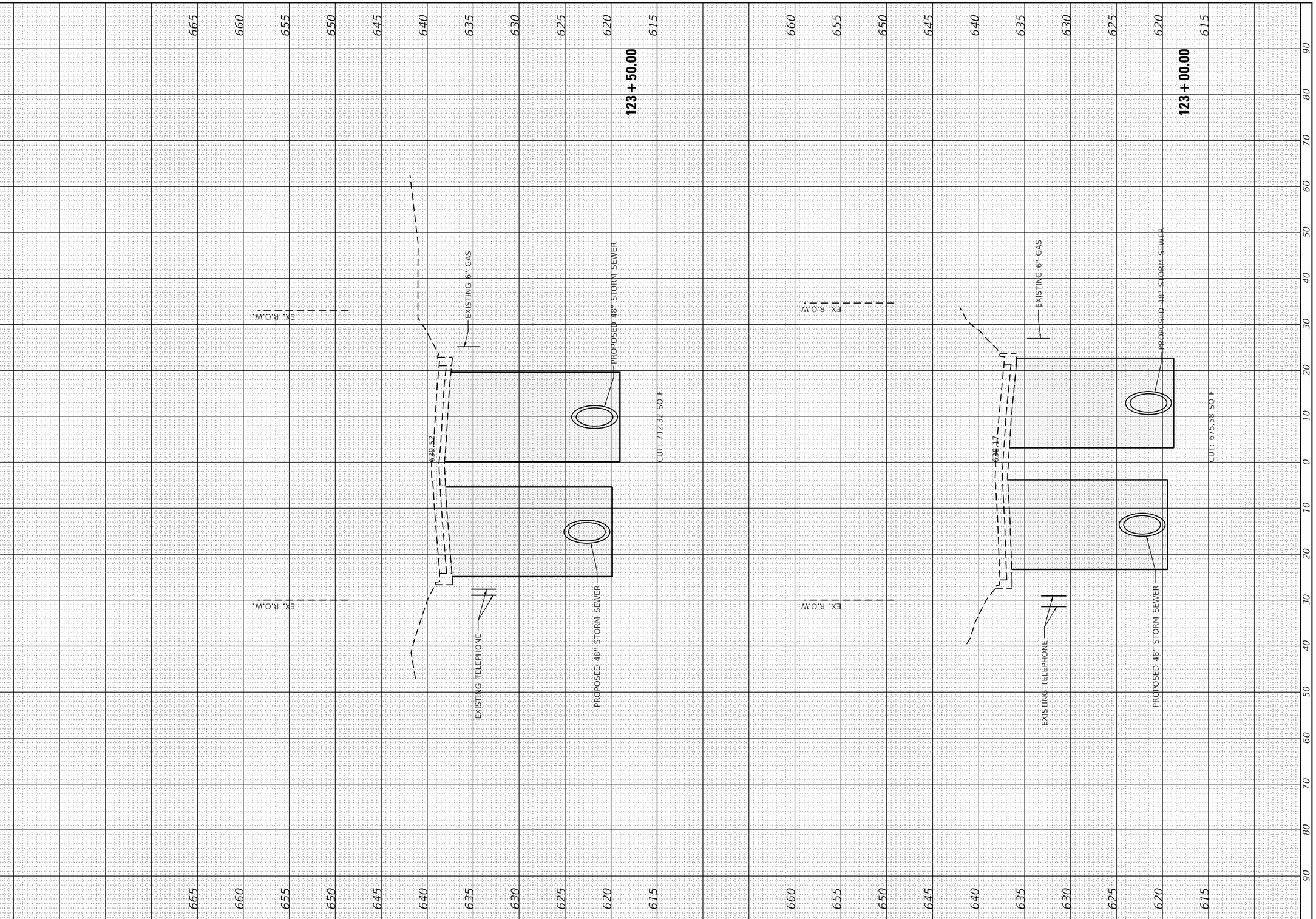
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 122+00.00 | TO STA. 122+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	126
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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



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

FILE NAME = O:\Engineering\LivePrjcts\20005 IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-XS 11900 to 14400.dgn

Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JN	REVISED -	
	DRAWN - JN	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 123+00.00 | TO STA. 123+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	127
		CONTRACT NO. 62H38		
	ILLINOIS FED. AID PROJECT			

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

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

FILE NAME = Q:\Engineering\LiveProjects\2000s IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\CivilD162H38-sht-XS 1190D to 1440D.dgn

EX. R.O.W.

EXISTING GAS

PROPOSED 15" STORM SEWER

641.27

CUT: 1127 SQ FT

125+00.00

EX. R.O.W.

EXISTING TELEPHONE

PROPOSED 15" STORM SEWER

640.76

CUT: 399.15 SQ FT

124+50.00

EX. R.O.W.

EXISTING GAS

PROPOSED 48" STORM SEWER

640.28

CUT: 734.12 SQ FT

124+00.00

EX. R.O.W.

EXISTING TELEPHONE

PROPOSED 48" STORM SEWER

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 124+00.00 | TO STA. 125+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	128
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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

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

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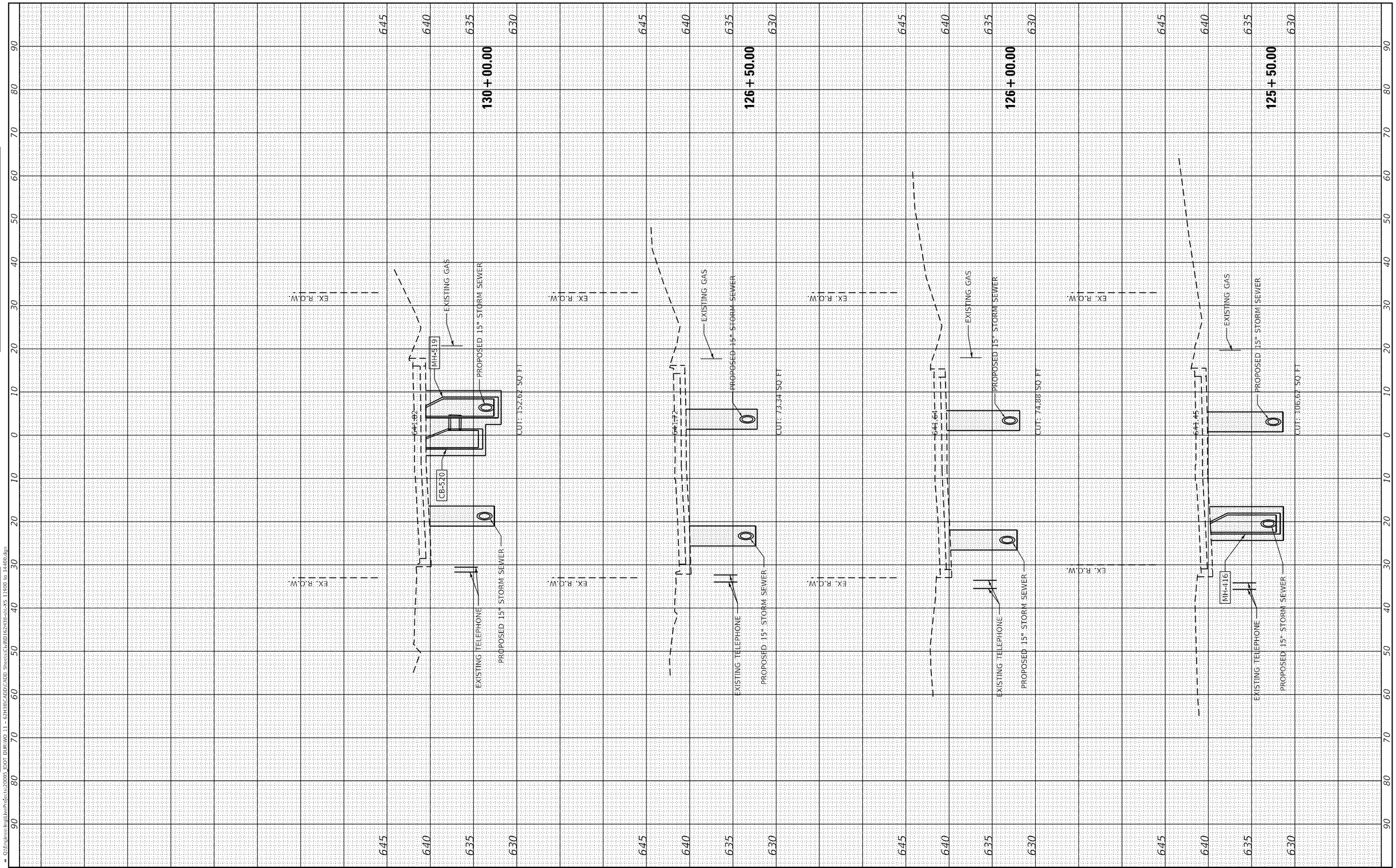

Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JN	REVISED -
		DRAWN - JN	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 125+50.00 | TO STA. 130+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	129
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	

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

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

FILE NAME = Q:\Engineering\LiveProjects\2000s IDOT DUR\WO 11 - 62H38\CADD\CADD Sheets\Civil\D162H38-sht-XS 1190D to 1440D.dgn

128 + 50.00

EXISTING GAS

EX. R.C.W.

64+99

EXISTING TELEPHONE

128 + 00.00

EXISTING GAS

PROPOSED 15" STORM SEWER

EX. R.C.W.

64+06

EXISTING TELEPHONE

PROPOSED 15" STORM SEWER

CUT: 68.94 SQ. FT

130 + 50.00

EXISTING GAS

EX. R.C.W.

64+96

EXISTING TELEPHONE

PROPOSED 15" STORM SEWER

CUT: 70.42 SQ. FT

665 660 655 650 645 640 635 630

0 10 20 30 40 50 60 70 80 90

Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JN	REVISED -
	DRAWN - JN	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 10/15/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
US ROUTE 14

SCALE: | SHEET OF SHEETS | STA. 130+50.00 | TO STA. 128+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	2018-109-RS,SW&T	COOK	130	130
		CONTRACT NO. 62H38		
		ILLINOIS	FED. AID PROJECT	