08/05/2022 LETTING ITEM 006

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-03-BT	COOK	129	1
	ILLINOIS	CONTRACT NO. 61H87		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DES PLAINES RIVER TRAIL – SEGMENT 3
LAWRENCE AVE TO BRYN MAWR AVE
BIKE PATH
SECTION 17–00034–03–BT
PROJECT NO. E0EF(542)
COOK COUNTY FOREST PRESERVE DISTRICT
COOK COUNTY
JOB NO. C–91–143–22

LOCATION OF SECTION INDICATED THUS:–

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FLOOD CONTROL CERTIFICATION STATEMENT
(SECTION 16–6–040 OF THE CITY OF CHICAGO MUNICIPAL CODE)

I hereby certify that the following is true and correct:

1. I am a registered professional engineer in the State of Illinois.

2. My license number, issued by the Illinois Department of Financial and Professional Regulation, is 062–042363.

3. I am an engineer working on the development located at Des Plaines River Trail, Segment 3, between Lawrence Avenue and Bryn Mawr Avenue.

4. I have reviewed the minimum requirements set forth in Chapter 16–6 of the City of Chicago Municipal Code and the plans for the above referenced development.

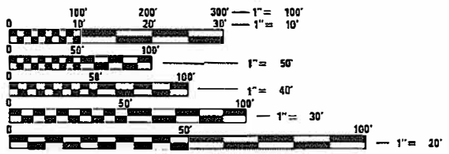
5. Pursuant to section 16–6–040(a)(v), I hereby certify that the above referenced development complies with the requirements of Chapter 16–6 of the City of Chicago Municipal Code.

David Landeweer 3/29/22

PROJECT LOCATED IN
CITY OF CHICAGO

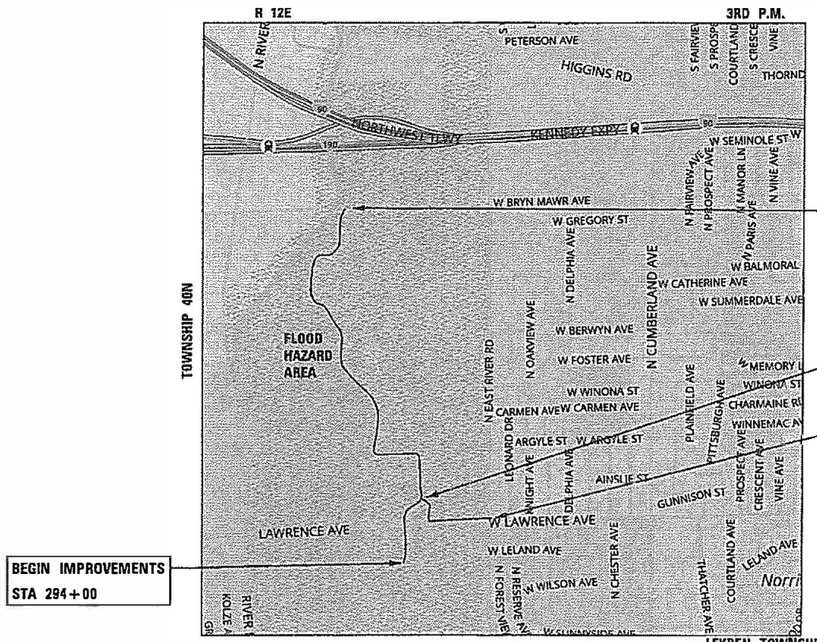
DESIGN DESIGNATION

LAWRENCE AVE
MINOR ARTERIAL
POSTED SPEED: 45 M.P.H.
EXISTING ADT: 24,500 (2018)



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

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



BEGIN IMPROVEMENTS
STA 294+00

END IMPROVEMENTS
STA 367+14.8

BEGIN IMPROVEMENTS
STA 40+10

END IMPROVEMENTS
STA 57+20.52

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 9025.32 FT. = 1.71 MILE
NET LENGTH = 9025.32 FT. = 1.71 MILE

DAVID L LANDEWEER P.E.
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062-042363 EXPIRES 11-30-23 DATE: 04-25-22

9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

TERRA ENGINEERING LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED Chris Slattery April 12, 2022
FOREST PRESERVE DISTRICT OF COOK COUNTY

PASSED June 1, 2022
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW JUNE 1, 2022
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61H87

FEDERAL AID DESIGN PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES AND STANDARDS
3-12	SUMMARY OF QUANTITIES
13-16	TYPICAL SECTIONS
17-18	SCHEDULE OF QUANTITIES
19-23	ALIGNMENT AND TIES
24-41	PLAN AND PROFILE
42-43	SITE ACCESS
44	DETOUR PLAN
45-54	EROSION AND SEDIMENT CONTROL PLANS AND DETAILS
55-56	ADA RAMP DETAILS
57-66	TRAFFIC SIGNAL PLANS
67-93	LAWRENCE AVENUE BRIDGE PLANS AND DETAILS
94-105	BOARDWALK PLANS AND DETAILS
106-109	DETAIL SHEETS
110-115	DISTRICT 1 DETAILS
116-129	CROSS SECTIONS

DISTRICT 1 DETAILS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	TRAFFIC SIGNAL DESIGN DETAILS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606306-04	CORRUGATED PC CONCRETE MEDIANS
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE, 15 FEET TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTI-LANE, MORE THAN 15 FEET AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, MULTI-LANE, INTERMITTENT OR MOVING OPERATIONS, 45 MPH OR MORE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTI-LANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTI-LANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTI-LANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTI-LANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATION OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), THE "DETAILS" IN THE PLANS, AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT.

3. THE CONTRACTOR SHALL LIMIT HIS/HER CONSTRUCTION ACTIVITIES TO THE WORK AREAS DESIGNATED ON THE PLANS. ANY DAMAGE TO AREAS OUTSIDE OF THESE LIMITS SHALL BE REPAIRED BY THE CON TRACTOR TO THE SATISFACTION OF THE ENGINEER.

4. THE CONTRACTOR SHALL NOTIFY THE FOREST PRESERVE DISTRICT OF COOK COUNTY REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK AND COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.

5. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. IF EXISTING SIGNS ARE DAMAGED DURING THE REMOVAL AND REPLACEMENT PROCESS, THE SIGN SHALL BE REPLACED.

6. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.

7. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (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.

8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER ROADWAY PROJECTS WITHIN THE AREA THAT ARE UNDER CONSTRUCTION AT THE SAME TIME.

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

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING PUBLIC OR PRIVATE ROADWAYS, STRUCTURES, AND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAID ROADWAYS, STRUCTURES, AND UTILITIES. ANY ROADWAY, STRUCTURE, OR UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.

11. TREE STUMPS OF TREES TO BE REMOVED THAT ARE FARTHER THAN 5 FEET FROM THE EDGE OF THE PROPOSED TRAIL SHALL NOT BE REMOVED BUT LEFT IN PLACE. THE TREES SHALL BE CUT NO HIGHER THAN 6 INCHES ABOVE THE EXISTING GROUND LINE.

12. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

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

UTILITIES

1. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING BUT NOT LIMITED TO SANITARY AND STORM SEWERS, WATER MAINS AND THEIR RESPECTIVE SERVICE LINES, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UNDERGROUND FACILITIES REPRESENTS ONLY THE OPINION OF THE ENGINEER, AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL UTILITIES AS NECESSARY, PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHLL NOTIFY J.U.L.I.E. AT (800) 892-0123, AND ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

SOIL EROSION AND SEDIMENT CONTROLS

1. SOIL EROSION AND SEDIMENT CONTROL (SESC) 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.

2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT A MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE MAINTAINED ON THE SITE AT ALL TIMES.

3. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.

4. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL TEMPORARY OR PERMANET EROSION PROTECTION TO CONTROL SOIL EROSION, OR INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.

5. ACCESS TO THE WORK AREA WILL ONLY BE ALLOWED FROM STABILIZED CONSTRUCTION ENTRANCES. ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAYS MUST BE REMOVED IMMEDIATELY.

6. DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G. STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DE-WATERING SEDIMENT LADEN WATER DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR "WATERS OF THE US" IS PROHIBITED.

7. CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE WILL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) DAYS PRIOR TO THE INITATION OF IMPROVEMENTS.

8. ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN SEVEN (7) DAYS OF CONSTRUCTION ACTIVITY HAVING CEASED IF THE SOIL IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS.

COMMITTMENTS

1. WETLAND SHOULD BE PROTECTED DURING CONSTRUCTION, UTILIZING PERIMETER EROSION BARRIER AND HIGH VISIBILITY TEMPORARY FENCE.

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

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

MODEL: Default
FILE NAME: M:\ 2020\20 202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-GEN NOTES.dgn

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
GENERAL NOTES SHEET

SCALE: N.T.S. | SHEET 1 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	2
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

• SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
	X	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	727	727				
	X	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	539	539				
	X	20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25				
		20101000	TEMPORARY FENCE	FOOT	960	960				
		20101100	TREE TRUNK PROTECTION	EACH	65	65				
	X	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	13	13				
	X	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	53	53				
	X	20101700	SUPPLEMENTAL WATERING	UNIT	10	10				
•		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1310	1310				
		20400800	FURNISHED EXCAVATION	CU YD	265	265				
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	15812	15812				
		21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	9816	9816				
		21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	20	20				
	X	25000100	SEEDING, CLASS 1	ACRE	0.25	0.25				

• SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
	X	25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50				
	X	25000310	SEEDING, CLASS 4	ACRE	3.75	3.75				
	X	25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25				
	X	25000750	MOWING	ACRE	19	19				
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	421	421				
		28000400	PERIMETER EROSION BARRIER	FOOT	16032	16032				
		28000510	INLET FILTERS	EACH	7	7				
		28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	10144	10144				
		28100105	STONE RIPRAP, CLASS A3	SQ YD	36	36				
		28200200	FILTER FABRIC	SQ YD	36	36				
•		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1194	1194				
•		31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	8585	8585				
		35101400	AGGREGATE BASE COURSE, TYPE B	TON	10	10				
		35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	7410	7410				

• SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	85	85				
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4674	4674				
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	936	936				
		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1048	1048				
		42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	758	758				
		42400800	DETECTABLE WARNINGS	SQ FT	78	78				
•		44000100	PAVEMENT REMOVAL	SQ YD	314	314				
		44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	4160	4160				
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	77	77				
		44000300	CURB REMOVAL	FOOT	64	64				
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	71	71				
		44000600	SIDEWALK REMOVAL	SQ FT	2444	2444				
		44003100	MEDIAN REMOVAL	SQ FT	21	21				
		48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	16	16				

PLAN — SURVEYED — PLOTTED — CROSS SECTIONS CHECKED — R.O.W. NOTED — STRUCTURE NUMBERS CITED — NOTE BOOK — NO. — DATE — BY

PROFILE — SURVEYED — PLOTTED — CROSS SECTIONS CHECKED — R.O.W. NOTED — STRUCTURE NUMBERS CITED — NOTE BOOK — NO. — DATE — BY

MODEL: SQQ 3
FILE NAME: M:\2020\20-202 CIBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\850001-SQQ.dgn

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USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / In.	CHECKED -	REVISED -
PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 3 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	5
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

* SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
		50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1				
		50105220	PIPE CULVERT REMOVAL	FOOT	30	30				
		50200100	STRUCTURE EXCAVATION	CU YD	440		370	70		
		50300225	CONCRETE STRUCTURES	CU YD	158.0		158.0			
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	158.7		158.7			
		50300300	PROTECTIVE COAT	SQ YD	795		795			
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	25.0		15.0	10.0		
		50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1			
		50500505	STUD SHEAR CONNECTORS	EACH	2505		2505			
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	53930		52820	1110		
	X	50901720	BICYCLE RAILING	FOOT	1310		1310			
		51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	990		990			
		51202305	DRIVING PILES	FOOT	990		990			
		51203200	TEST PILE METAL SHELLS	EACH	6		6			

* SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
		51204650	PILE SHOES	EACH	36		36			
		51500100	NAME PLATES	EACH	1		1			
		52000110	PREFORMED JOINT STRIP SEAL	FOOT	32		32			
		52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	4		4			
		52100510	ANCHOR BOLTS, 3/4"	EACH	24		24			
		52100520	ANCHOR BOLTS, 1"	EACH	12		12			
		52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	2730		2730			
		54215416	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 16"	EACH	8	8				
		58700300	CONCRETE SEALER	SQ FT	830		830			
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	35		35			
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	5	5				
		60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	489	489				
		60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	515		515			
		60255500	MANHOLES TO BE ADJUSTED	EACH	6	6				

TERRA ENGINEERING LTD.

USER NAME = DavidL
PLOT SCALE = 2.0000 ' / in.
PLOT DATE = 6/9/2022

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DATE -

REVISED -
REVISED -
REVISED -
REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 5 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	7

CONTRACT NO61H87

ILLINOIS | FED. AID PROJECT

* SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	45	45				
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	26	26				
		60624600	CORRUGATED MEDIAN	SQ FT	21	21				
*	X	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	623	623				
*	X	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2				
*	X	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				
*	X	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
*	X	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	40	40				
		67100100	MOBILIZATION	L SUM	1	1				
*		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14				
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	36	36				
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	116	116				
	X	72000100	SIGN PANEL - TYPE 1	SQ FT	47	47				
		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	3	3				

PLAN: SURVEYED, DRAWN, NOTE BOOK, ALIGNMENT CHECKED, NO. OF MAP CHECKED, CADD FILE NAME, BY, DATE

PROFILE: SURVEYED, DRAWN, NOTE BOOK, GRADES CHECKED, S.M. NOTED, STRUCTURE NO., BY, DATE

MODEL: SOO 6
FILE NAME: M:\2020\D202 CDBEL FPDCC Engineering and CN Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\98001-500.dgn

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / In.	CHECKED -	REVISED -
	PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 6 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
	17-00034-03-BT	COOK	129	8
		CONTRACT NO61H87		
	ILLINOIS FED. AID PROJECT			

* SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
		72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7				
		72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1				
	X	72900100	METAL POST - TYPE A	FOOT	120	120				
	X	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2				2	
•	X	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1	
	X	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	229				229	
	X	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	243				243	
	X	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	15				15	
	X	87900200	DRILL EXISTING HANDHOLE	EACH	1				1	
	X	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4				4	
	X	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	966				966	
•	X	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				1	
•		X0300249	REMOVE EXISTING GATE	EACH	1	1				
•		X0321156	HIGH VISIBILITY TEMPORARY FENCING	FOOT	3081	3081				

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

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

FILE NAME: MA 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\B60001-SQ0.dgn
MODEL: SOQ 7

* SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
*		X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	1960		1960			
*	X	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400	400				
*		X0325607	GROUND STABILIZATION GEOSYNTHETIC	SQ YD	1000	1000				
*		X0326806	WASHOUT BASIN	L SUM	1	1				
*		X0327646	REMOVE GATE POSTS	EACH	2	2				
*	X	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1				1	
*		X2110100	TOPSOIL FURNISH AND PLACE, SPECIAL	CU YD	272	272				
*	X	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	18398	18398				
*		X5210075	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 75K	EACH	2		2			
*		X5210090	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 100K	EACH	2		2			
*		X5210315	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 250K	EACH	2		2			
*		X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				
*		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
*	X	X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	506	506				

• SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
•	X	X7800835	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 6 INCH	FOOT	365	365				
•	X	X7800855	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 12 INCH	FOOT	364	364				
•	X	X7800870	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 24 INCH	FOOT	81	81				
•	X	X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	1				
•	X	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4				4	
•	X	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4				4	
•	X	X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1				1	
•		XX008287	BOARDWALK STRUCTURE	SQ FT	16702			16702		
•		XX008310	AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL)	SQ YD	8004	8004				
•		XX008533	STORM SEWER, DUCTILE IRON, 16"	FOOT	138	138				
•	X	XX009529	TREE ROOT PRESERVATION	SQ YD	140	140				
•	X	XX009531	TREE ROOT PRUNING (SPECIAL)	FOOT	3780	3780				
•		Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	134	134				
•		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				

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MODEL: SOO 9
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and Civ Services\20-202-010 DesPlaines Trail Seg 3\PrelimDesign\Transportation\CADD\CADD Sheets\856001-SOO.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / In.	CHECKED -	REVISED -
PLOT DATE = 6/16/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 9 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	11
		CONTRACT NO 61H87		
	ILLINOIS FED. AID PROJECT			

• SPECIALTY PROVISION ITEM
X SPECIALTY ITEM

SP	SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% / 20% ROADWAY 0028	80% / 20% BRIDGE 0028	80% / 20% BOARDWALK 0028	80% / 20% SIGNALS 0028	80% / 20% TRAINEES 0042
•		Z0022800	FENCE REMOVAL	FOOT	30	30				
•		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	109	109				
•	X	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1				1	
•	X	Z0055800	RUSTIC RAIL FENCE	FOOT	74	74				
•	X	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	6				6	
•		Z0075500	TIMBER RETAINING WALL	SQ FT	40	40				
•		Z0076600	TRAINEES	HOUR	500					500
•		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500					500

PLAN — SURVEYED ____ PLOTTED ____ ALIGNMENT CHECKED ____ RT. OF WAY CHECKED ____ CROSS FILE NAME ____ NOTE BOOK ____ NO. ____ BY ____ DATE ____

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

MODEL: SOQ 10
FILE NAME: M:\2020\30-202 CIBELL FPDCC Engineering and CM Services\30-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\BE0001-SOQ.dgn

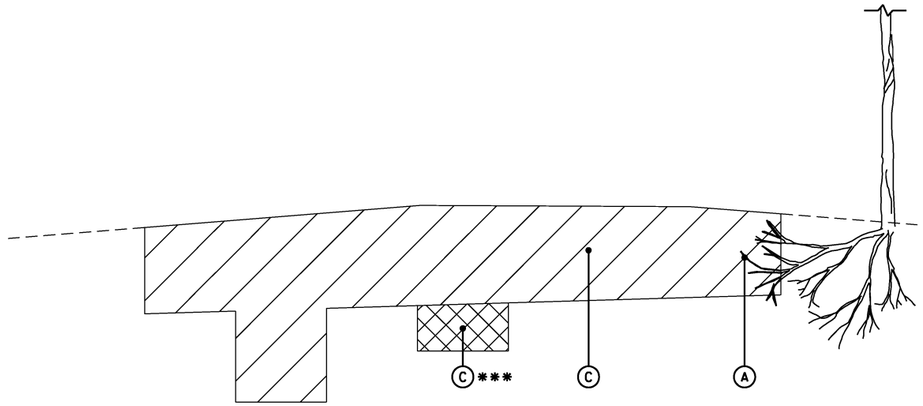
TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / In.	CHECKED -	REVISED -
	PLOT DATE = 6/16/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET 10 OF 10 SHEETS | STA. | TO STA.

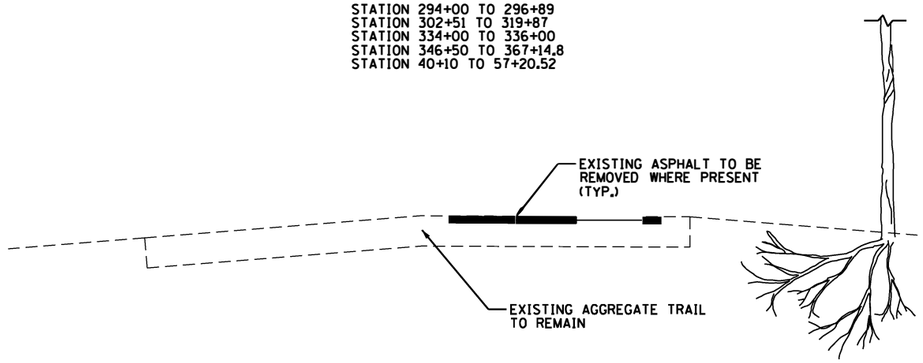
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	12
		CONTRACT NO61H87		
	ILLINOIS FED. AID PROJECT			



*** AT LOCATIONS AS DIRECTED BY THE ENGINEER

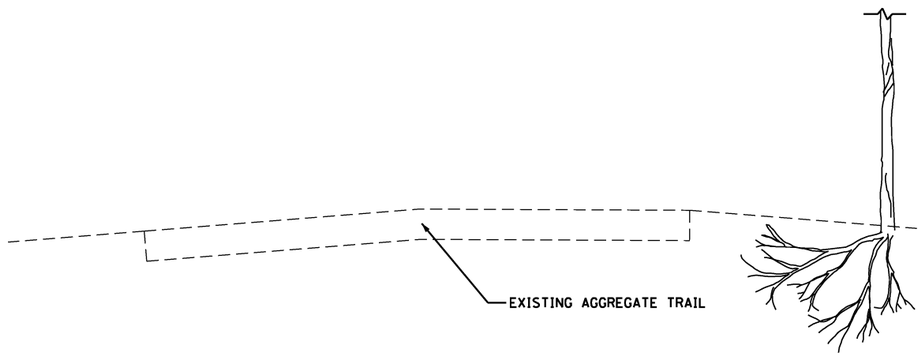
EXISTING TYPICAL SECTION

STATION 294+00 TO 296+89
STATION 302+51 TO 319+87
STATION 334+00 TO 336+00
STATION 346+50 TO 367+14.8
STATION 40+10 TO 57+20.52



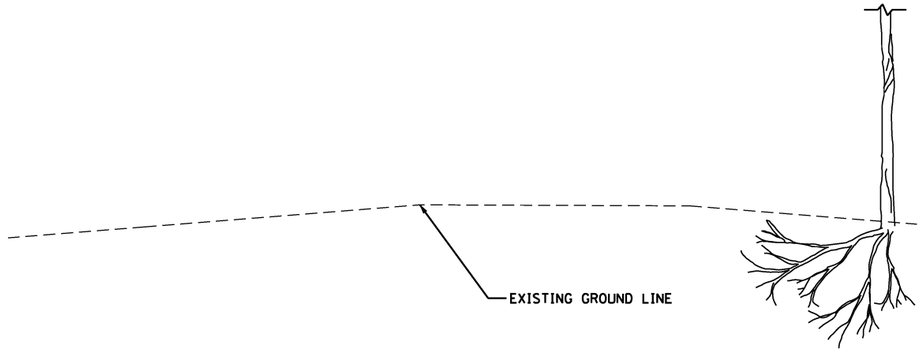
EXISTING TYPICAL SECTION

STATION 319+87 TO 334+00



EXISTING TYPICAL SECTION

STATION 336+00 TO 346+50



EXISTING TYPICAL SECTION

STATION 296+89 TO 302+51

LEGEND

- (A) TREE ROOT PRUNING
- (C) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
- (1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (2) TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (21101600)
- (3) SEEDING, CLASS 4 (25000312)
- (4) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT (30300011)
- (5) SUBBASE GRANULAR MATERIAL, TYPE B 6" (31101400)
- (6) AGGREGATE BASE COURSE, TYPE B 3" (35101598)
- (7) BITUMINOUS MATERIALS (PRIME COAT) (40600275)
- (8) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 3" (40604060)
- (10) AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL) (XX008310)
- (11) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)
- (12) TOPSOIL FURNISH AND PLACE, SPECIAL (X2110100)
- (13) PERIMETER EROSION BARRIER (28000400)

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\8600001-TYP-01.dgn

TERRA ENGINEERING LTD.

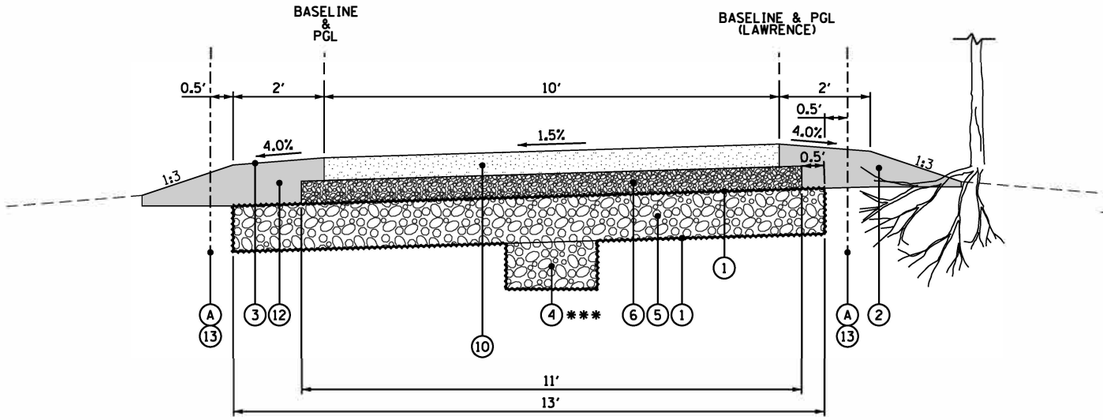
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5.00 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	13
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

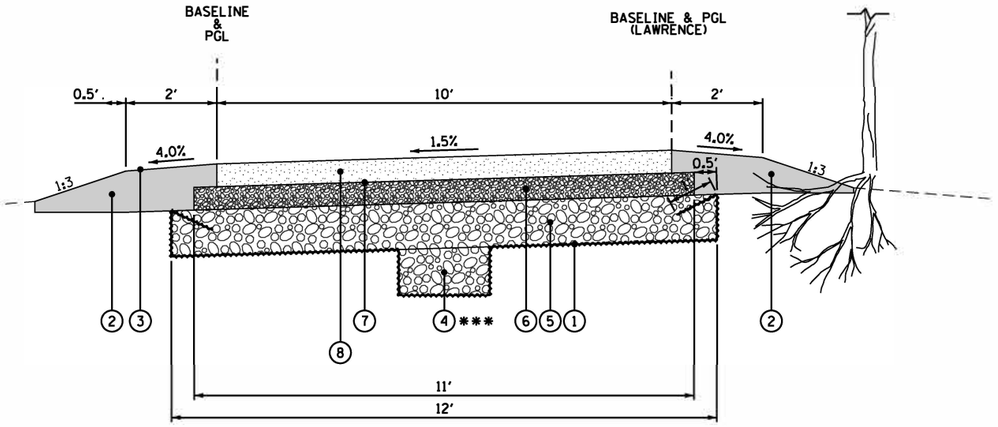


PROPOSED TYPICAL SECTION – RECONSTRUCTION

STATION 304+00 TO 319+87
STATION 346+50 TO 367+14.8
STATION 40+10 TO 44+00 (LAWRENCE SPUR)

**SEE CROSS SECTIONS FOR PIPE UNDERDRAIN ELEVATIONS

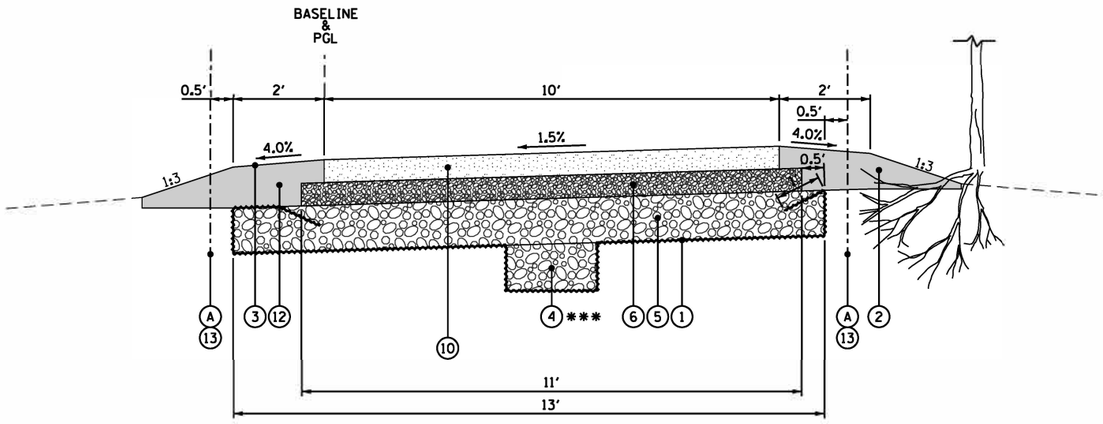
***AT LOCATIONS AS DIRECTED BY THE ENGINEER



PROPOSED TYPICAL SECTION

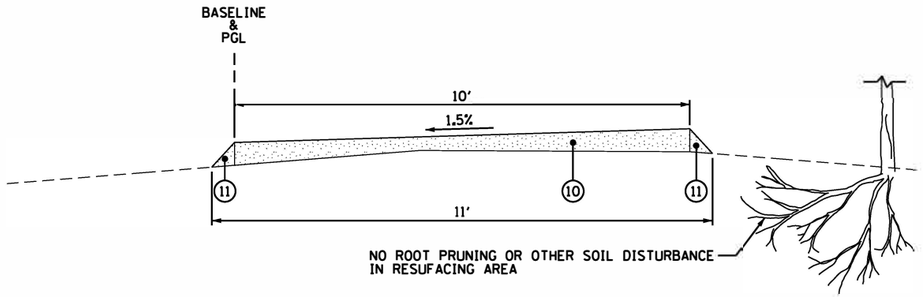
HMA SURFACE

STATION 295+00 TO 295+75
STATION 303+80 TO 304+00
STATION 44+00 TO 55+41.25 (LAWRENCE SPUR)



PROPOSED TYPICAL SECTION – RECONSTRUCTION

STATION 294+00 TO 295+00
STATION 334+00 TO 336+00
STATION 11+50 TO 12+05 (SPUR)



PROPOSED TYPICAL SECTION – RESURFACING

STATION 319+87 TO 334+00

PROVIDE 2' MINIMUM CLEAR ZONE ON BOTH SIDES OF TRAIL

HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE

USE	MIXTURE	AIR VOIDS @ NDES	QMP
TRAIL SURFACE, PARKING LOT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 3" (IN 2 LIFTS)	4% @ 50 GYR	LR1030-2
QMP DESIGNATION:	QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

HMA NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION

LEGEND

- (A) TREE ROOT PRUNING
- (C) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
- (1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (2) TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (21101600)
- (3) SEEDING, CLASS 4 (25000312)
- (4) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT (30300011)
- (5) SUBBASE GRANULAR MATERIAL, TYPE B 6" (31101400)
- (6) AGGREGATE BASE COURSE, TYPE B 3" (35101598)
- (7) BITUMINOUS MATERIALS (PRIME COAT) (40600275)
- (8) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 3" (40604060)
- (10) AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL) (XX008310)
- (11) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)
- (12) TOPSOIL FURNISH AND PLACE, SPECIAL (X2110100)
- (13) PERIMETER EROSION BARRIER (28000400)

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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PROFILE
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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATION CHKD
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FILE NAME: M:\2020\20-202 CIBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-TYP-02.dgn

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
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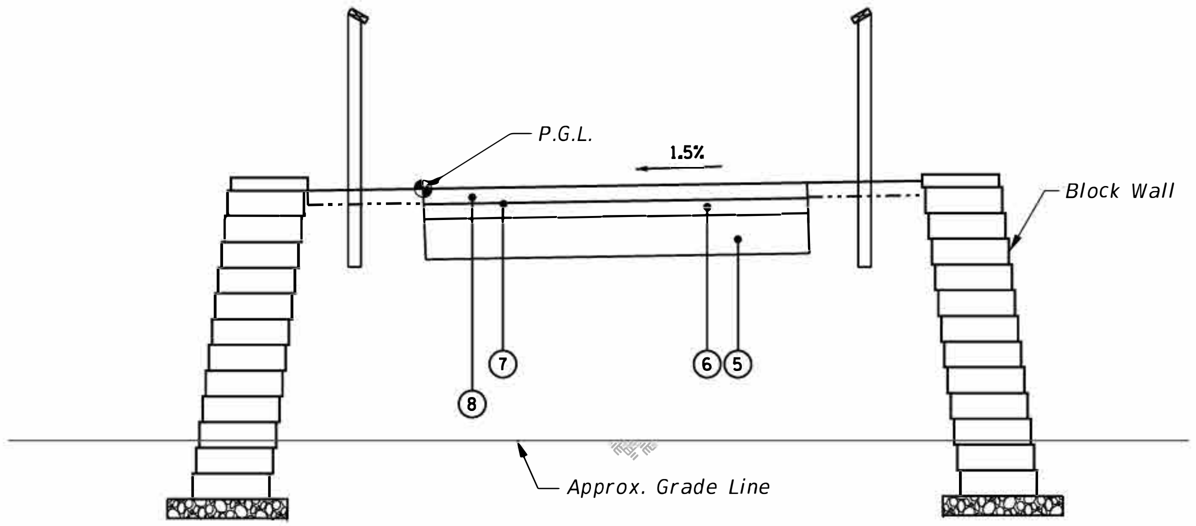
	PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
TYPICAL SECTIONS

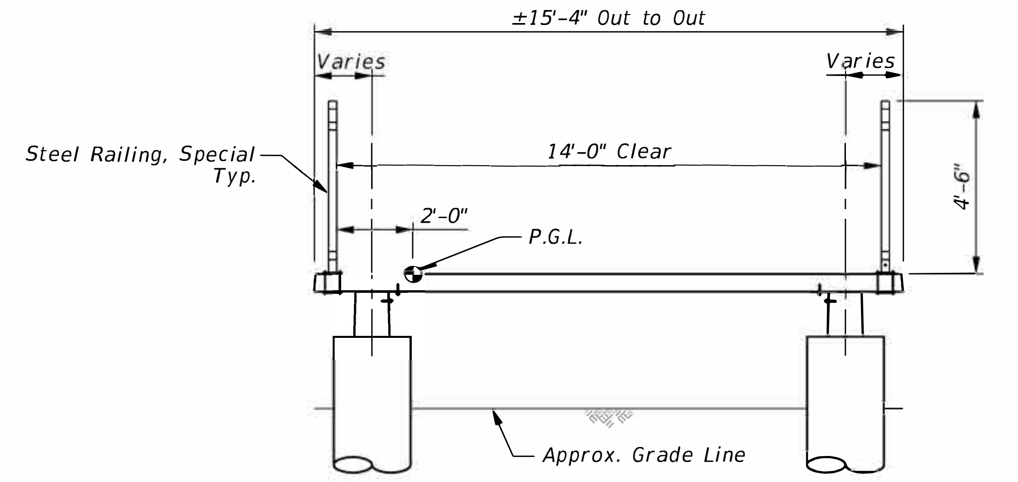
SCALE: N.T.S. | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	14
		CONTRACT NO.61H87		
		ILLINOIS	FED. AID PROJECT	



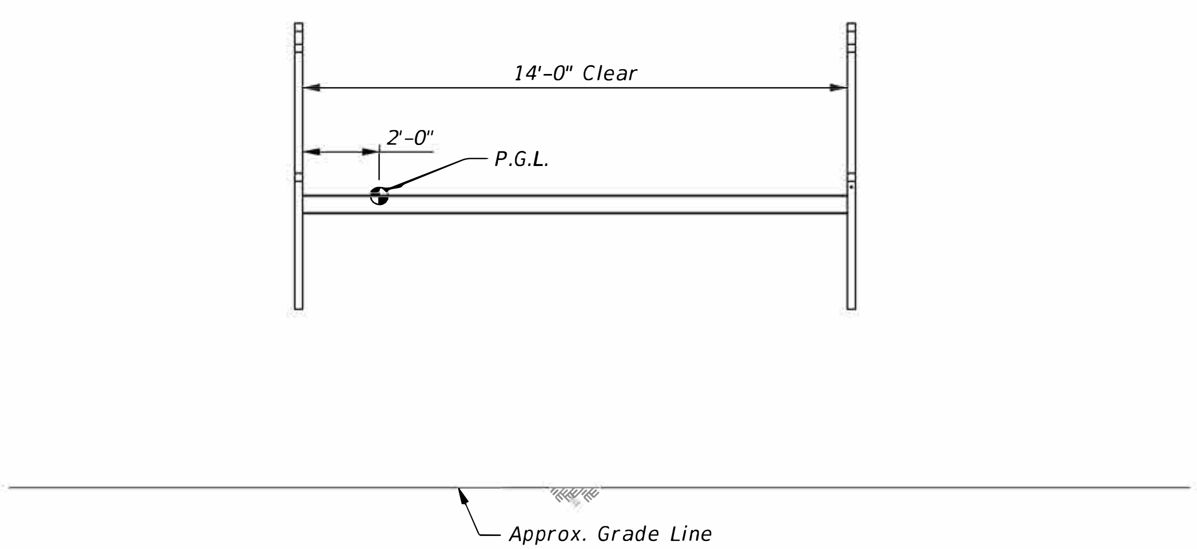
PROPOSED TYPICAL SECTION – BLOCK WALL

STATION 295+75 TO 296+90
STATION 302+50 TO 303+80



PROPOSED TYPICAL SECTION – BOARDWALK

STATION 336+00 TO 346+50



PROPOSED TYPICAL SECTION – BRIDGE

STATION 296+90 TO 302+50
STATION 10+10 TO 11+50 (SPUR)

LEGEND

- (A) TREE ROOT PRUNING
- (C) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
- (1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (2) TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (21101600)
- (3) SEEDING, CLASS 4 (25000312)
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- (12) TOPSOIL FURNISH AND PLACE, SPECIAL (X2110100)
- (13) PERIMETER EROSION BARRIER (28000400)

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
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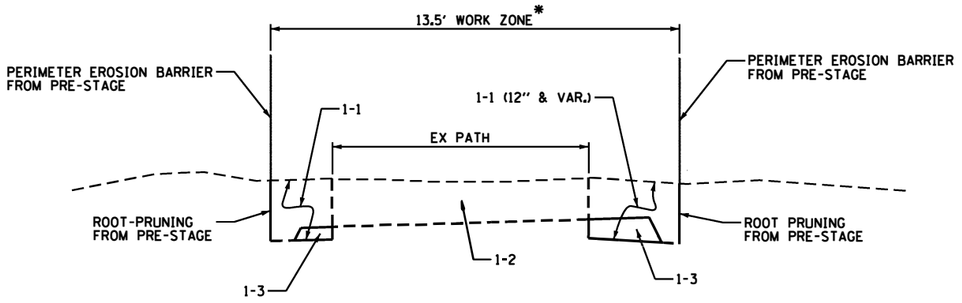
PLOT SCALE = 5.00 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
TYPICAL SECTIONS

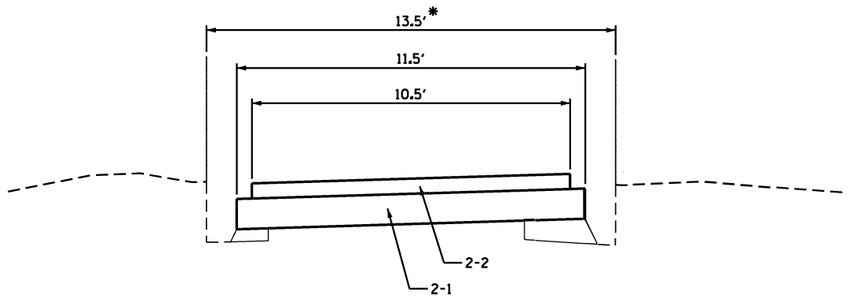
SCALE: N.T.S. | SHEET 3 OF 4 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	15
		CONTRACT NO.61H87		
		ILLINOIS	FED. AID PROJECT	

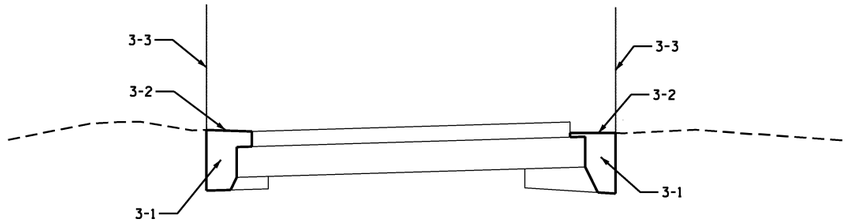


STAGE 1

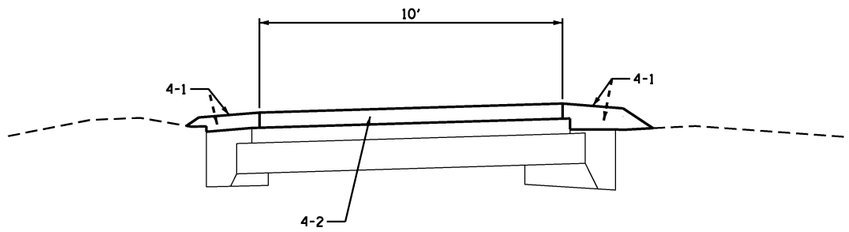
* 13.5' WORK ZONE WILL BE STRICTLY ENFORCED
CONTRACTOR SHALL BID ACCORDINGLY



STAGE 2



STAGE 3



STAGE 4

CONSTRUCTION STAGING DETAILS

PRE-STAGE

A. SET ALIGNMENT STAKES

B. CONTRACTOR'S PROFESSIONAL ARBORIST AND FOREST PRESERVE DISTRICT OF COOK COUNTY (FPDCC) ARBORIST WALK CONSTRUCTION SITE AND DETERMINE LOCATIONS FOR TREE PROTECTION ZONE AS DEFINED BY THE FPDCC TREE PROTECTION AND PRESERVATION MANUAL AND THE PROJECT SPECIFICATIONS. IN ADDITION, DETERMINE LOCATIONS FOR TREE ROOT PRUNING, TREE PRUNING, TREE ROOT PROTECTION (SPECIAL), AND TREE REMOVAL.

C. REMOVE TREES THAT ARE AGREED UPON AS NECESSARY AND ACCEPTABLE TO THE ENGINEER, ARBORIST, AND CCFPD.

NOTE: TREE REMOVALS SHOWN IN THE PLANS ARE ESTIMATED. THE FPDCC AND ITS REPRESENTATIVES SHALL HAVE THE ULTIMATE AUTHORITY IN WHICH TREES ARE REMOVED. ANY TREES THAT ARE REMOVED WITHOUT PRIOR APPROVAL FROM THE CCFPD SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

D. ROOT PRUNING TO BE PERFORMED BY PRE-QUALIFIED ARBORIST BASED ON PLAN DETAILS AND PRE-CONSTRUCTION WALK THROUGH

E. CONSTRUCT TREE ROOT PROTECTION UNDER THE DIRECTION OF THE ARBORIST.

F. INSTALL PERIMETER EROSION BARRIER IN ROOT PRUNING TRENCH 1.75' FROM EDGE OF PROPOSED PATH CREATING A 13.5' WIDE WORK ZONE CORRIDOR.

STAGE 1: EXCAVATION

1-1 REMOVE TOPSOIL FROM PERIMETER EROSION BARRIER TO EXISTING PATH (ASSUMED 1' DEEP), HAUL AWAY AS UNSUITABLE MATERIAL.

1-2 EXCAVATE EXISTING PATH TO BOTTOM OF PROPOSED SUBBASE.

1-3 PLACE EMBANKMENT FROM EXISTING PATH EXCAVATION UNDER PROPOSED SUBGRADE AND COMPACT.

1-4 HAUL AWAY EXCESS EXCAVATION NOT USED AS EMBANKMENT UNDER PROPOSED SUBGRADE.

STAGE 2: PLACE AGGREGATE BASE FOR PATH

2-1 PLACE SUBBASE GRANULAR MATERIAL, TYPE B 6".

2-2 PLACE AGGREGATE BASE COURSE, TY. B, 3".

STAGE 3: TEMPORARY EROSION CONTROL

3-1 BACKFILL REMAINING TRENCH WITH FURNISHED TOPSOIL TO EXISTING GROUND ELEVATION AT THE PERIMETER EROSION BARRIER.

3-2 PLACE TEMPORARY SEEDING AND TEMP EROSION CONTROL BLANKET.

3-3 REMOVE PERIMETER EROSION BARRIER.

STAGE 4: PLACE SURFACE COURSE AND FINAL LANDSCAPING

4-1 PLACE FURNISHED OR STOCKPILED TOPSOIL TO FINISHED GRADE, PLACE FINAL SEEDING, AND INSTALL EROSION CONTROL BLANKET. NO TOPSOIL SHALL REMAIN UNBLANKETED AT THE END OF A WORK DAY.

4-2 PLACE AGGREGATE AND HMA SURFACE COURSES, 3".

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

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

MODEL: Default
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-TYP-03-EC.dgn

TERRA ENGINEERING LTD.

USER NAME = JuanS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 5.00 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
CONSTRUCTION STAGING DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	16
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

STATION	OFFSET		SIZE DIA. (INCHES)	TREE REMOVAL (6 TO 15) (UNIT)	TREE REMOVAL (OVER 15) (UNIT)	TREE REMOVAL (ACRE)	TREE TRUNK PROTECT (EACH)	TREE PRUNING (1" TO 10") (EACH)	TREE PRUNING (OVER 10") (EACH)	TREE ROOT PRESERV (SPECIAL) (SQ YD)
296+62	14.2'	RT	10	10						
296+72	8'	LT	10	10						
296+94	20.7	RT	6	6						
297+02	21.2	RT	6	6						
297+33	22.6	RT	8	8						
297+35	1.5	RT	6	6						
297+57	3.7'	LT	16		16					
297+61	17.5	RT	6	6						
297+71	10.7	RT	12	12						
297+94	5.3	LT	10	10						
298+14	12.5	RT	8	8						
298+23	14.5	LT	12				1		1	
298+42	23.9	RT	30				1		1	10
298+44	4.4	RT	6	6						
298+45	4.2	LT	10	10						
298+47	8.8	LT	18				1		1	
298+48	1.2	LT	12	12						
298+62	14.7	LT	14				1		1	
298+80	5.4	LT	12	12						
298+81	0.3	LT	10	10						
298+88	1.8	LT	6	6						
298+88	9.1	RT	10	10						
298+95	10.7	RT	12	12						
298+97	2.1	RT	12	12						
299+06	19.3	RT	6	6						
300+22	8.6	LT	12	12						
300+27	8.1	RT	8	8						
300+45	4.1	RT	8	8						
300+47	23.4	RT	6	6						
300+51	3.7	RT	8	8						
300+52	24.5	RT	12				1		1	
300+54	1.5	RT	12	12						
300+72	26.5	LT	15	15						
300+73	14	RT	8	8						
300+74	12.7	RT	6	6						
300+90	5.4	LT	12	12						
301+04	7.7	LT	10	10						
301+14	10.2	RT	10	10						
301+19	9.8	RT	10	10						
301+24	6.7	RT	10	10						
301+30	4.1	RT	18		18					
301+88	17.1	RT	6	6						
301+89	35.9	RT	18				1		1	
301+90	27	LT	8	8						
301+90	14.5	RT	18		18					
301+91	17.6	LT	10	10						
301+94	35.1	RT	15				1		1	
302+12	6.6	RT	12	12						
302+14	11.1	LT	12	12						
302+24	34.8	RT	8				1	1		
302+42	7.6	RT	6	6						
302+66	10.9	LT	6	6						
302+69	19.1	LT	6	6						
302+75	11.6	RT	8	8						
302+77	31.8	LT	12				1		1	
302+77	13.3	RT	8	8						
302+78	21.6	RT	6	6						
302+79	22.7	LT	8	8						
302+85	2.2	RT	8	8						
302+87	9.2	RT	6	6						
302+89	16	RT	6	6						
302+97	20.8	LT	6	6						
305+75	16.2	RT	12	12						
306+11	12.4	RT	12	12						
306+41	16	RT	8				1	1		
306+51	16.8	RT	13				1		1	
308+17	4.2	LT	8				1	1		
308+19	16.8	RT	14				1		1	
308+58	17.6	RT	6	6						

STATION	OFFSET		SIZE DIA. (INCHES)	TREE REMOVAL (6 TO 15) (UNIT)	TREE REMOVAL (OVER 15) (UNIT)	TREE REMOVAL (ACRE)	TREE TRUNK PROTECT (EACH)	TREE PRUNING (1" TO 10") (EACH)	TREE PRUNING (OVER 10") (EACH)	TREE ROOT PRESERV (SPECIAL) (SQ YD)
310+22	18.2	RT	11	11						
310+33	17.3	RT	8	8						
310+75	14.9	RT	8				1	1		
310+94	15.3	RT	11				1		1	
311+35	29.1	LT	12	12						
312+46	11.2	LT	30				1		1	10
313+44	5.2	LT	11				1		1	
313+79	5.1	LT	24				1		1	10
314+43	7.1	LT	24				1		1	10
314+75	12.8	RT	6	6						
314+76	15.4	RT	18				1		1	
314+82	5.2	LT	14				1		1	
315+17	5.4	LT	15				1		1	
315+32	4.8	LT	18				1		1	
315+87	18.7	RT	24				1		1	
316+49	16.7	RT	10				1	1		
318+70	30.5	RT	16		16					
318+91	39.3	RT	30		30					
319+79	11.8	RT	6	6						
320+11	15.3	LT	12	12						
320+31	10.1	RT	10	10						
321+40	18	RT	25		25					
332+70	12	RT	6	6						
332+85	3	LT	6	6						
333+05	12	RT	6	6						
336+58	15	RT	10	10						
336+81	12.5	RT	12	12						
337+14	6.2	LT	12				1		1	
337+17	12.6	RT	15	15						
337+30	14.3	RT	6	6						
337+37	16.9	RT	8				1	1		
337+42	16.8	RT	10				1	1		
337+60	7.6	LT	12	12						
338+09	5.1	LT	24				1		1	
338+16	19.3	RT	24				1		1	
338+27	11.6	LT	27				1		1	10
338+53	7.3	RT	18		18					
338+54	9.1	RT	10	10						
338+78	15.8	LT	30				1		1	10
339+00	13.4	LT	30				1		1	10
339+20	9.3	LT	15				1		1	
339+46	4.9	LT	8	8						
339+79	13.9	RT	26		26					
339+79	9.7	LT	10				1	1		
339+84	13.2	RT	24		24					
339+94	8.4	LT	10				1	1		
339+96	17.9	RT	48				1		1	10
340+00	4.6	LT	8	8						
340+02	15.7	RT	26		26					
340+09	10.8	LT	10				1	1		
340+27	13.2	RT	24		24					
340+35	6.4	LT	27				1		1	
340+48	0.2	LT	16		16					
340+61	20.3	RT	18				1		1	
340+91	8.9	RT	18		18					
341+13	4.3	RT	12	12						
341+23	7	RT	8	8						
341+219	15	RT	6	6						
341+51	4.9	LT	18		18					
341+74	14.7	RT	24		24					
341+91	10	LT	18				1		1	
342+26	4.9	LT	25		25					
342+67	20.2	RT	11				1		1	
342+72	2.4	LT	12	12						
343+60	11.8	LT	8				1	1		
343+80	16.9	RT	12				1		1	
343+89	8.3	LT	8				1	1		
343+92	4	LT	48		48					

TERRA ENGINEERING LTD.

USER NAME = JuanS | PLOT SCALE = 2.0000 ' / in. | PLOT DATE = 5/24/2022

DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	17

CONTRACT NO.61H87

ILLINOIS | FED. AID PROJECT

STATION	OFFSET		SIZE DIA. (INCHES)	TREE REMOVAL (6 TO 15) (UNIT)	TREE REMOVAL (OVER 15) (UNIT)	TREE REMOVAL (ACRE)	TREE TRUNK PROTECT (EACH)	TREE PRUNING (1" TO 10") (EACH)	TREE PRUNING (OVER 10") (EACH)	TREE ROOT PRESERV (SPECIAL) (SQ YD)
344+03	8	LT	8				1	1		
344+14	3.8	LT	10	10						
344+18	14.8	RT	12	12						
344+47	15.6	RT	28		28					
344+53	16.6	RT	30		30					
344+65	16.9	RT	15				1		1	
344+71	14	RT	30		30					
345+40	10.3	LT	28				1		1	10
346+08	10.8	LT	21				1		1	
346+44	6.5	LT	21		21					
347+85	5.3	LT	22				1		1	
348+36	18.2	RT	26				1		1	10
348+61	14.9	RT	15				1		1	
349+22	12.3	RT	18		18					
349+40	14.9	RT	15				1		1	
349+59	15.9	RT	18				1		1	
LAWRENCE SPUR										
40+40	11.8	LT	22		22					
40+49	9.1	RT	12	12						
40+66	13.5	LT	24				1		1	
41+00	14	LT	30				1		1	10
41+20	7.7	RT	22				1		1	
42+23	4.6	RT	11	11						
42+68	17.2	LT	11				1		1	
43+37	6	RT	20				1		1	
43+70	6.1	RT	14				1		1	
44+98	22.8	LT	12						1	
BOARDWALK SPUR										
10+86	11.5	LT	30				1		1	10
11+00	16	RT	21				1		1	
11+25	14.9	RT	27				1		1	10
11+26	5	LT	24				1		1	
11+73	22	RT	36				1		1	10
11+74	13	RT	15	15						
303+00 TO 306+00						0.25				
TOTALS				727	539	0.25	65	13	53	140

SIGN SCHEDULE

STATION	OFFSET	EXISTING SIGN DESCRIPTION	PROPOSED SIGN	SIGN PANEL TYPE 1 (SQ FT)	REMOVE SIGN PANEL TYPE 1 (SQ FT)	RELOCATE SIGN PANEL ASSEMBLY TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY TYPE B (EACH)	METAL POST TYPE A (FOOT)	NOTES
DES PLAINES RIVER TRAIL									
308+90	RT	TRAIL MARKER				1			RELOCATE MARKER AT SAME STATION TO 3' FROM EDGE OF PATH
311+50	RT	CURVE AHEAD	W1-2	2.25				9	
312+50	RT	TRAIL MARKER				1			RELOCATE MARKER AT SAME STATION TO 3' FROM EDGE OF PATH
313+10	RT	TRAIL MARKER				1			RELOCATE MARKER AT SAME STATION TO 3' FROM EDGE OF PATH
314+00	LT	CURVE AHEAD	W1-2	2.25				9	
318+80	RT	CURVE AHEAD	W1-2	2.25				9	
319+90	LT	TRAIL MARKER				1			RELOCATE MARKER AT SAME STATION TO 3' FROM EDGE OF PATH
321+50	LT	CURVE AHEAD	W1-2	2.25				9	
342+80	RT	TRAIL MARKER				1			RELOCATE MARKER, MOUNT TO BOARDWALK POST
LAWRENCE SPUR									
41+00	RT	CURVE AHEAD	W1-2	2.25				9	
43+00	LT	CURVE AHEAD	W1-2	2.25				9	
44+00	RT	CURVE AHEAD	W1-1	2.25				9	
44+80	LT	TRAIL MARKER				1			RELOCATE MARKER AT SAME STATION TO 3' FROM EDGE OF PATH
45+00	LT	NO PARKING			1.5				
45+00	RT	NO PARKING			1.5				
45+45	LT	UTILITY SIGN				1			RELOCATE SIGN AT SAME STATION TO 3' FROM EDGE OF PATH
46+40	LT	CURVE AHEAD	W1-1	2.25				9	
54+75	LT	FPD SIGN					1		RELOCATE SIGN AT SAME STATION TO 3' FROM EDGE OF PATH
NW XNER	LT		W11-1, W16-7P	8.25					MOUNT TO SIGNAL POST
N APPROACH	LT		W11-1	6.25				24	
NE XNER	RT		W11-1, W16-7P	8.25					MOUNT TO STREET LIGHT POST
S APPROACH	RT		W11-1	6.25				24	
TOTAL				47	3	7	1	120	

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) FURNISHED EXCAVATION (CU YD)	UNSUITABLE EXCAVATION (REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL) (CU YD)	UNSUITABLE MATERIAL ADJUSTED FOR SHRINKAGE (15%) (CU YD)	TOPSOIL FURNISH & PLACE (VAR DEPTH) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (UNSUITABLE MATERIAL) (CU YD)	TOPSOIL FURNISH & PLACE, SPECIAL (CU YD)
DES PLAINES RIVER TRAIL	0	0	253	-253	895	780	292	468	265
LAWRENCE AVENUE SPUR	0	0	1	-1	408	347	133	214	0
BOARDWALK SPUR	0	0	7	-7	7	6	7	-1	7
TOTAL	**0**	**0**	**262**	**-262**	**1,310**	**1,114**	**432**	**682**	**272**

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

PROFILE — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

MODEL: Sched_2
FILE NAME: M:\2020\20-202 CBBIL FPDCC Engineering and CM Services\20-202 010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\850001 Sched Quant.dgn

TERRA ENGINEERING LTD.

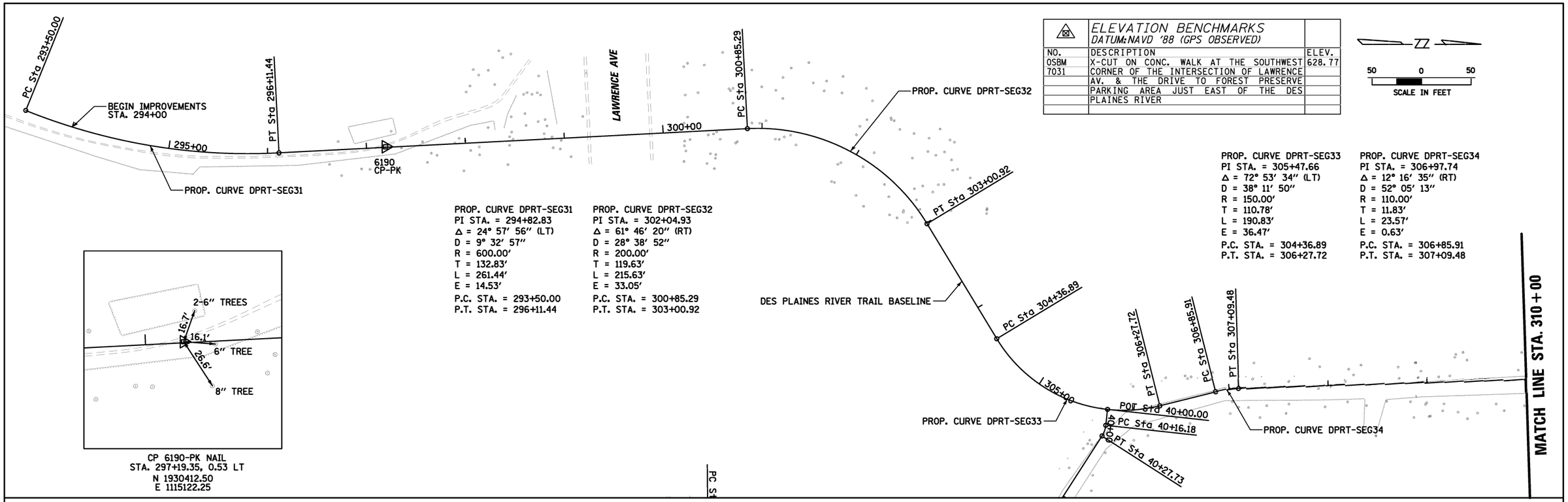
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	18
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			



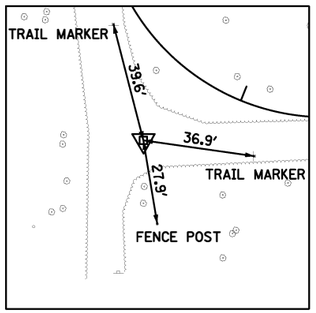
	ELEVATION BENCHMARKS DATUM: NAVD '88 (GPS OBSERVED)	
NO.	DESCRIPTION	ELEV.
OSBM 7031	X-CUT ON CONC. WALK AT THE SOUTHWEST CORNER OF THE INTERSECTION OF LAWRENCE AV. & THE DRIVE TO FOREST PRESERVE PARKING AREA JUST EAST OF THE DES PLAINES RIVER	628.77

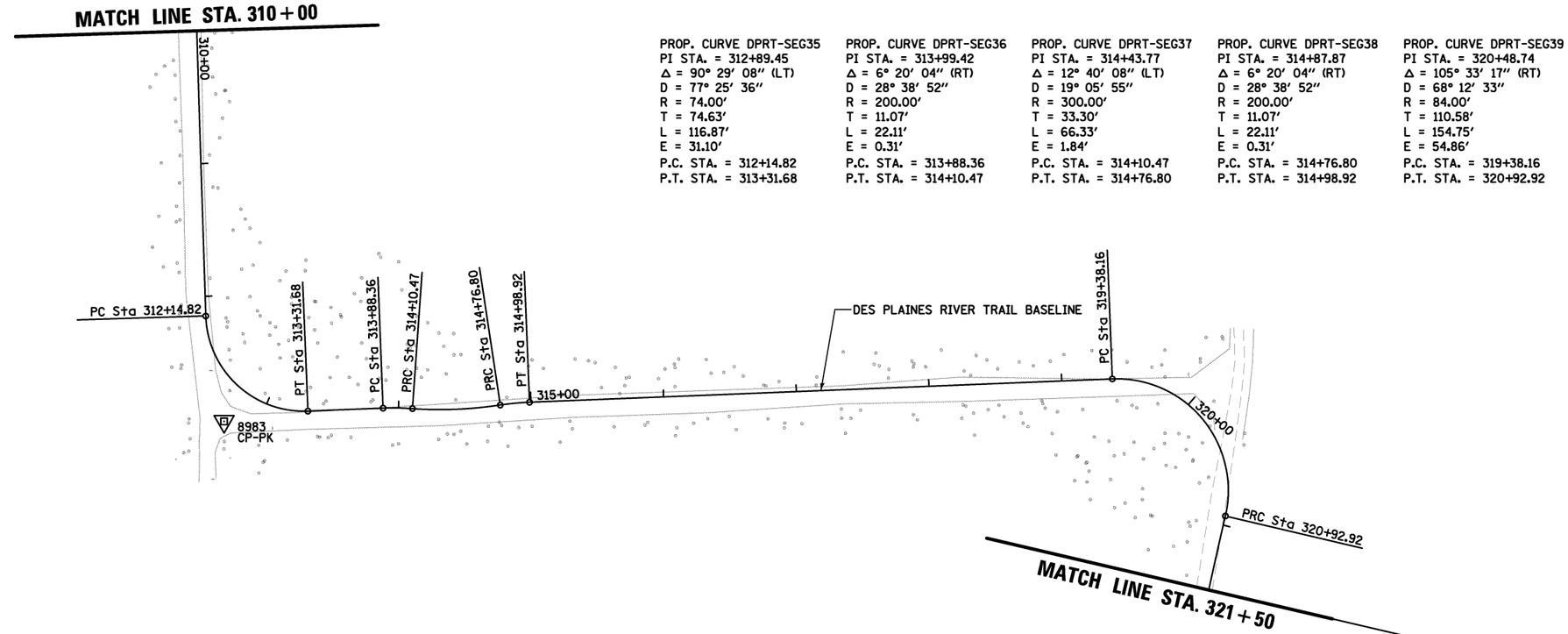
PROP. CURVE DPRT-SEG31
PI STA. = 294+82.83
Δ = 24° 57′ 56″ (LT)
D = 9° 32′ 57″
R = 600.00′
T = 132.83′
L = 261.44′
E = 14.53′
P.C. STA. = 293+50.00
P.T. STA. = 296+11.44

PROP. CURVE DPRT-SEG32
PI STA. = 302+04.93
Δ = 61° 46′ 20″ (RT)
D = 28° 38′ 52″
R = 200.00′
T = 119.63′
L = 215.63′
E = 33.05′
P.C. STA. = 300+85.29
P.T. STA. = 303+00.92

PROP. CURVE DPRT-SEG33
PI STA. = 305+47.66
Δ = 72° 53′ 34″ (LT)
D = 38° 11′ 50″
R = 150.00′
T = 110.78′
L = 190.83′
E = 36.47′
P.C. STA. = 304+36.89
P.T. STA. = 306+27.72

PROP. CURVE DPRT-SEG34
PI STA. = 306+97.74
Δ = 12° 16′ 35″ (RT)
D = 52° 05′ 13″
R = 110.00′
T = 11.83′
L = 23.57′
E = 0.63′
P.C. STA. = 306+85.91
P.T. STA. = 307+09.48





PROP. CURVE DPRT-SEG35
PI STA. = 312+89.45
Δ = 90° 29′ 08″ (LT)
D = 77° 25′ 36″
R = 74.00′
T = 74.63′
L = 116.87′
E = 31.10′
P.C. STA. = 312+14.82
P.T. STA. = 313+31.68

PROP. CURVE DPRT-SEG36
PI STA. = 313+99.42
Δ = 6° 20′ 04″ (RT)
D = 28° 38′ 52″
R = 200.00′
T = 11.07′
L = 22.11′
E = 0.31′
P.C. STA. = 313+88.36
P.T. STA. = 314+10.47

PROP. CURVE DPRT-SEG37
PI STA. = 314+43.77
Δ = 12° 40′ 08″ (LT)
D = 19° 05′ 55″
R = 300.00′
T = 33.30′
L = 66.33′
E = 1.84′
P.C. STA. = 314+10.47
P.T. STA. = 314+76.80

PROP. CURVE DPRT-SEG38
PI STA. = 314+87.87
Δ = 6° 20′ 04″ (RT)
D = 28° 38′ 52″
R = 200.00′
T = 11.07′
L = 22.11′
E = 0.31′
P.C. STA. = 314+76.80
P.T. STA. = 314+98.92

PROP. CURVE DPRT-SEG39
PI STA. = 320+48.74
Δ = 105° 33′ 17″ (RT)
D = 68° 12′ 33″
R = 84.00′
T = 110.58′
L = 154.75′
E = 54.86′
P.C. STA. = 319+38.16
P.T. STA. = 320+92.92

50 0 50
SCALE IN FEET

FILE NAME = N:\COOK COUNTY FPD\200048.0010A\Civil\A..200048-TO-10.01.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100'	CHECKED -	REVISED -
Default	PLOT DATE = 4/22/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1:100 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	19
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

PROP. CURVE DPRT-SEG311
PI STA. = 325+86.13
Δ = 6° 56′ 22″ (LT)
D = 28° 38′ 52″
R = 200.00′
T = 12.13′
L = 24.22′
E = 0.37′
P.C. STA. = 325+74.00
P.T. STA. = 325+98.22

PROP. CURVE DPRT-SEG312
PI STA. = 327+26.90
Δ = 20° 38′ 08″ (LT)
D = 19° 05′ 55″
R = 300.00′
T = 54.62′
L = 108.05′
E = 4.93′
P.C. STA. = 326+72.29
P.T. STA. = 327+80.33

PROP. CURVE DPRT-SEG313
PI STA. = 329+49.67
Δ = 22° 41′ 08″ (LT)
D = 22° 55′ 06″
R = 250.00′
T = 50.15′
L = 98.98′
E = 4.98′
P.C. STA. = 328+99.53
P.T. STA. = 329+98.51

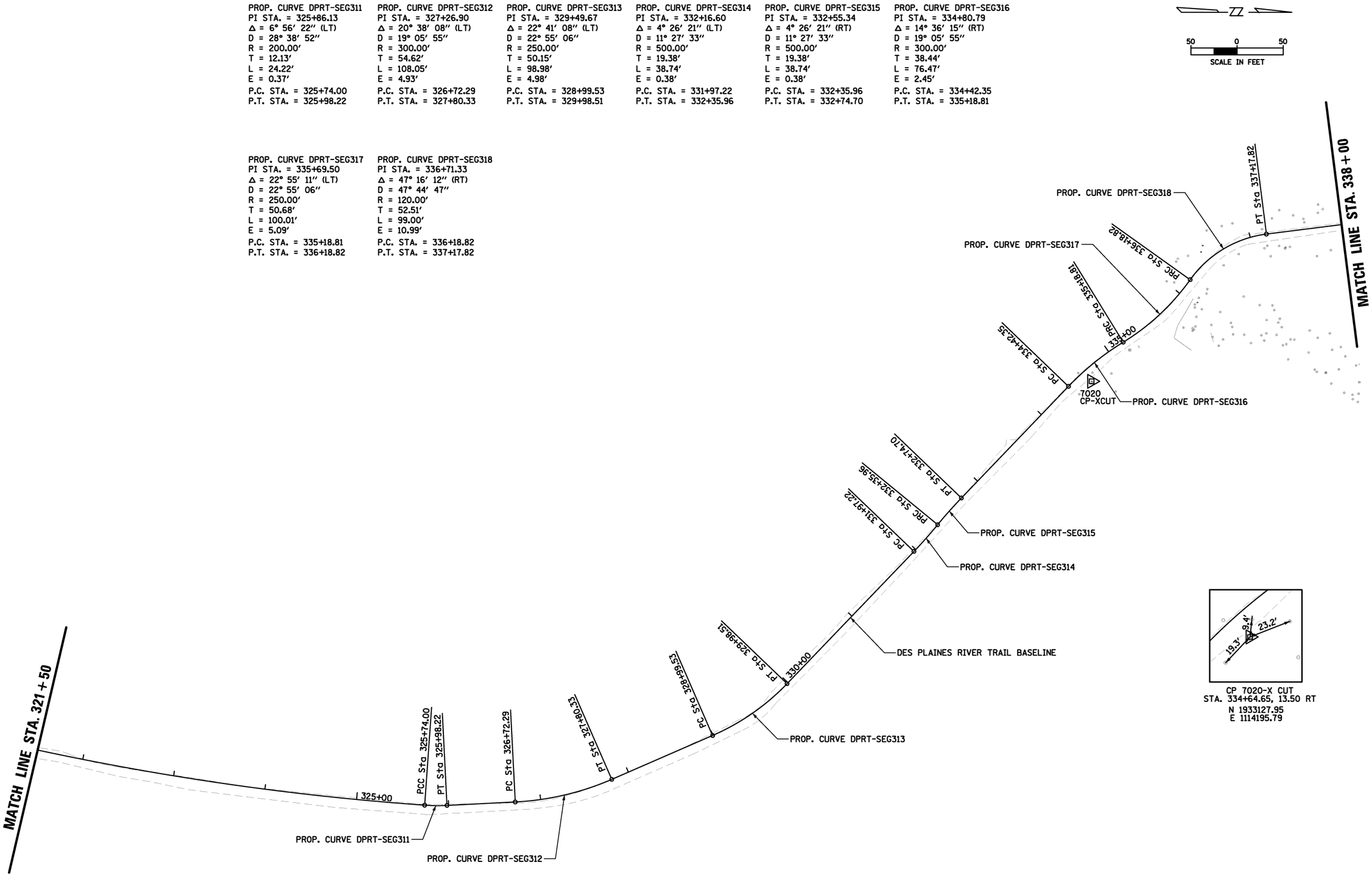
PROP. CURVE DPRT-SEG314
PI STA. = 332+16.60
Δ = 4° 26′ 21″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 19.38′
L = 38.74′
E = 0.38′
P.C. STA. = 331+97.22
P.T. STA. = 332+35.96

PROP. CURVE DPRT-SEG315
PI STA. = 332+55.34
Δ = 4° 26′ 21″ (RT)
D = 11° 27′ 33″
R = 500.00′
T = 19.38′
L = 38.74′
E = 0.38′
P.C. STA. = 332+35.96
P.T. STA. = 332+74.70

PROP. CURVE DPRT-SEG316
PI STA. = 334+80.79
Δ = 14° 36′ 15″ (RT)
D = 19° 05′ 55″
R = 300.00′
T = 38.44′
L = 76.47′
E = 2.45′
P.C. STA. = 334+42.35
P.T. STA. = 335+18.81

PROP. CURVE DPRT-SEG317
PI STA. = 335+69.50
Δ = 22° 55′ 11″ (LT)
D = 22° 55′ 06″
R = 250.00′
T = 50.68′
L = 100.01′
E = 5.09′
P.C. STA. = 335+18.81
P.T. STA. = 336+18.82

PROP. CURVE DPRT-SEG318
PI STA. = 336+71.33
Δ = 47° 16′ 12″ (RT)
D = 47° 44′ 47″
R = 120.00′
T = 52.51′
L = 99.00′
E = 10.99′
P.C. STA. = 336+18.82
P.T. STA. = 337+17.82



CP 7020-X CUT
STA. 334+64.65, 13.50 RT
N 1933127.95
E 1114195.79

FILE NAME = N:\COOK COUNTY F\B_200048.0010A\Civil\B_200048-TG-10_02.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100'	CHECKED -	REVISED -
Default	PLOT DATE = 4/22/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

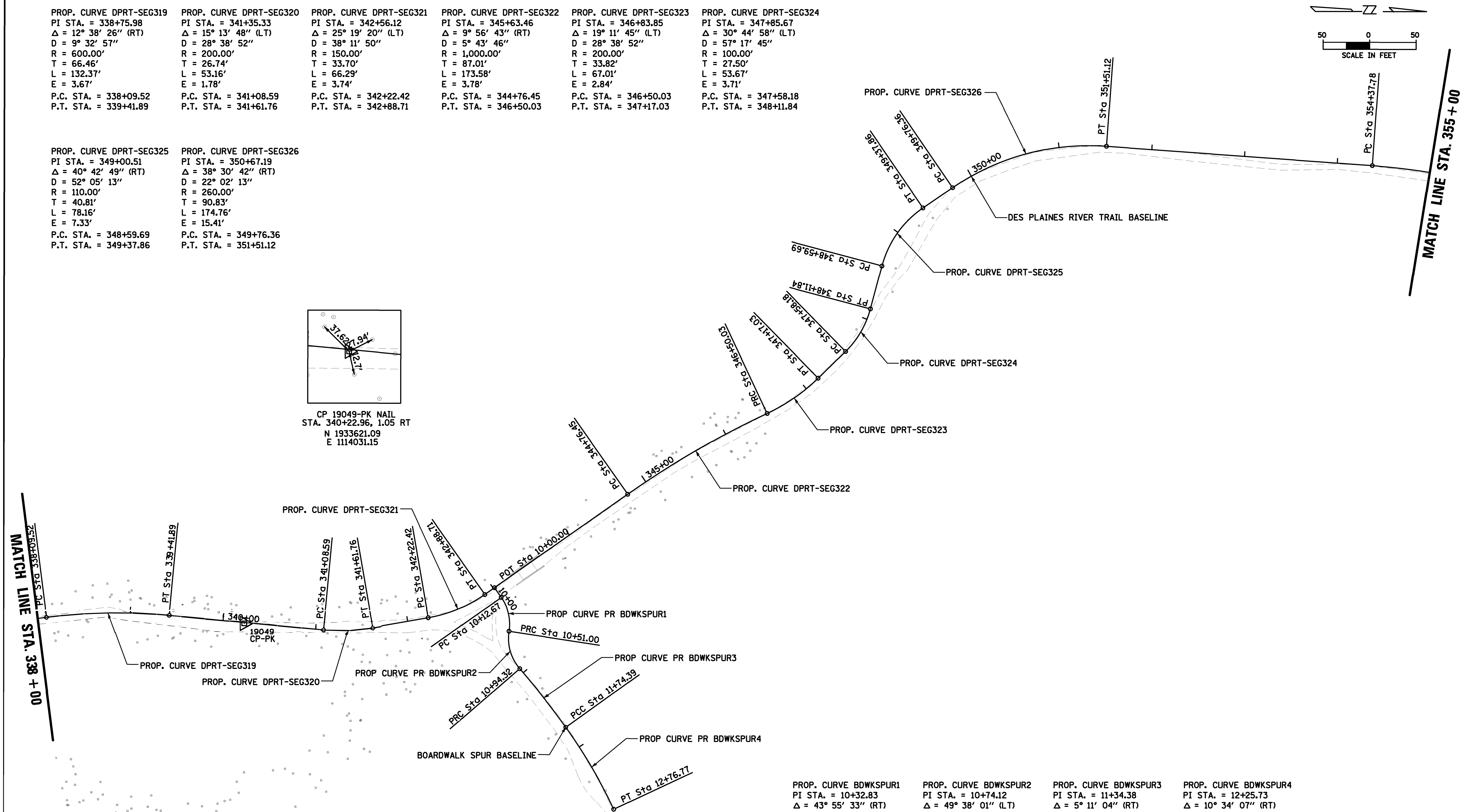
DES PLAINES RIVER TRAIL – SEGMENT 3
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1:100 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	20
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

PROP. CURVE DPRT-SEG319	PROP. CURVE DPRT-SEG320	PROP. CURVE DPRT-SEG321	PROP. CURVE DPRT-SEG322	PROP. CURVE DPRT-SEG323	PROP. CURVE DPRT-SEG324
PI STA. = 338+75.98	PI STA. = 341+35.33	PI STA. = 342+56.12	PI STA. = 345+63.46	PI STA. = 346+83.85	PI STA. = 347+85.67
Δ = 12° 38′ 26″ (RT)	Δ = 15° 13′ 48″ (LT)	Δ = 25° 19′ 20″ (LT)	Δ = 9° 56′ 43″ (RT)	Δ = 19° 11′ 45″ (LT)	Δ = 30° 44′ 58″ (LT)
D = 9° 32′ 57″	D = 28° 38′ 52″	D = 38° 11′ 50″	D = 5° 43′ 46″	D = 28° 38′ 52″	D = 57° 17′ 45″
R = 600.00′	R = 200.00′	R = 150.00′	R = 1,000.00′	R = 200.00′	R = 100.00′
T = 66.46′	T = 26.74′	T = 33.70′	T = 87.01′	T = 33.82′	T = 27.50′
L = 132.37′	L = 53.16′	L = 66.29′	L = 173.58′	L = 67.01′	L = 53.67′
E = 3.67′	E = 1.78′	E = 3.74′	E = 3.78′	E = 2.84′	E = 3.71′
P.C. STA. = 338+09.52	P.C. STA. = 341+08.59	P.C. STA. = 342+22.42	P.C. STA. = 344+76.45	P.C. STA. = 346+50.03	P.C. STA. = 347+58.18
P.T. STA. = 339+41.89	P.T. STA. = 341+61.76	P.T. STA. = 342+88.71	P.T. STA. = 346+50.03	P.T. STA. = 347+17.03	P.T. STA. = 348+11.84

PROP. CURVE DPRT-SEG325	PROP. CURVE DPRT-SEG326
PI STA. = 349+00.51	PI STA. = 350+67.19
Δ = 40° 42′ 49″ (RT)	Δ = 38° 30′ 42″ (RT)
D = 52° 05′ 13″	D = 22° 02′ 13″
R = 110.00′	R = 260.00′
T = 40.81′	T = 90.83′
L = 78.16′	L = 174.76′
E = 7.33′	E = 15.41′
P.C. STA. = 348+59.69	P.C. STA. = 349+76.36
P.T. STA. = 349+37.86	P.T. STA. = 351+51.12



PROP. CURVE BDWKSPUR1	PROP. CURVE BDWKSPUR2	PROP. CURVE BDWKSPUR3	PROP. CURVE BDWKSPUR4
PI STA. = 10+32.83	PI STA. = 10+74.12	PI STA. = 11+34.38	PI STA. = 12+25.73
Δ = 43° 55′ 33″ (RT)	Δ = 49° 38′ 01″ (LT)	Δ = 5° 11′ 04″ (RT)	Δ = 10° 34′ 07″ (RT)
D = 114° 35′ 30″	D = 114° 35′ 30″	D = 6° 28′ 27″	D = 10° 19′ 25″
R = 50.00′	R = 50.00′	R = 885.00′	R = 555.00′
T = 20.16′	T = 23.12′	T = 40.07′	T = 51.33′
L = 38.33′	L = 43.31′	L = 80.08′	L = 102.37′
E = 3.91′	E = 5.09′	E = 0.91′	E = 2.37′
P.C. STA. = 10+12.67	P.C. STA. = 10+51.00	P.C. STA. = 10+94.32	P.C. STA. = 11+74.39
P.T. STA. = 10+51.00	P.T. STA. = 10+94.32	P.T. STA. = 11+74.39	P.T. STA. = 12+76.77

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100′	CHECKED -	REVISED -
Default	PLOT DATE = 9/22/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1:100 | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	21
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

PROP. CURVE DPRT-SEG327
PI STA. = 355+44.13
Δ = 17° 16′ 40″ (RT)
D = 8° 11′ 06″
R = 700.00′
T = 106.35′
L = 211.09′
E = 8.03′
P.C. STA. = 354+37.78
P.T. STA. = 356+48.86

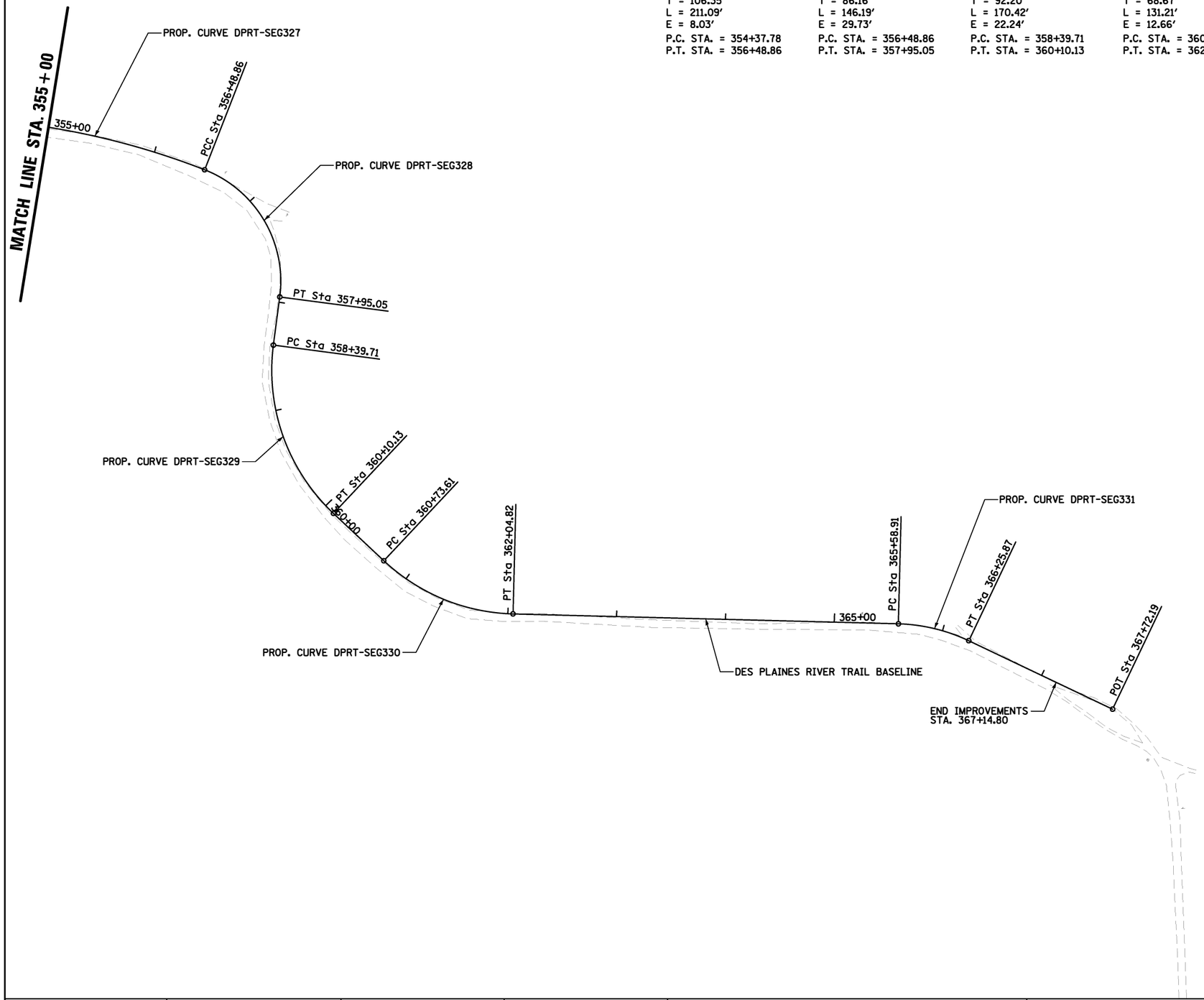
PROP. CURVE DPRT-SEG328
PI STA. = 357+35.03
Δ = 76° 08′ 38″ (RT)
D = 52° 05′ 13″
R = 110.00′
T = 86.16′
L = 146.19′
E = 29.73′
P.C. STA. = 356+48.86
P.T. STA. = 357+95.05

PROP. CURVE DPRT-SEG329
PI STA. = 359+31.91
Δ = 54° 14′ 43″ (LT)
D = 31° 49′ 52″
R = 180.00′
T = 92.20′
L = 170.42′
E = 22.24′
P.C. STA. = 358+39.71
P.T. STA. = 360+10.13

PROP. CURVE DPRT-SEG330
PI STA. = 361+42.28
Δ = 41° 45′ 55″ (LT)
D = 31° 49′ 52″
R = 180.00′
T = 68.67′
L = 131.21′
E = 12.66′
P.C. STA. = 360+73.61
P.T. STA. = 362+04.82

PROP. CURVE DPRT-SEG331
PI STA. = 365+92.89
Δ = 23° 58′ 48″ (RT)
D = 35° 48′ 36″
R = 160.00′
T = 33.98′
L = 66.96′
E = 3.57′
P.C. STA. = 365+58.91
P.T. STA. = 366+25.87

50 0 50
SCALE IN FEET



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	PLOT SCALE = 100'	DRAWN -	REVISED -
Default	PLOT DATE = 4/22/2022	CHECKED -	REVISED -
		DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1:100 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	22
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

PROP. CURVE PR_LAWR1
PI STA. = 40+22.06
Δ = 26° 28′ 15″ (RT)
D = 229° 10′ 59″
R = 25.00′
T = 5.88′
L = 11.55′
E = 0.68′
P.C. STA. = 40+16.18
P.T. STA. = 40+27.73

PROP. CURVE PR_LAWR2
PI STA. = 42+04.26
Δ = 65° 12′ 36″ (RT)
D = 77° 25′ 36″
R = 74.00′
T = 47.33′
L = 84.22′
E = 13.84′
P.C. STA. = 41+56.93
P.T. STA. = 42+41.15

PROP. CURVE PR_LAWR3
PI STA. = 43+84.44
Δ = 8° 32′ 54″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 37.37′
L = 74.60′
E = 1.39′
P.C. STA. = 43+47.08
P.T. STA. = 44+21.67

PROP. CURVE PR_LAWR4
PI STA. = 45+24.35
Δ = 93° 16′ 09″ (LT)
D = 229° 10′ 59″
R = 25.00′
T = 26.47′
L = 40.70′
E = 11.41′
P.C. STA. = 44+97.88
P.T. STA. = 45+38.58

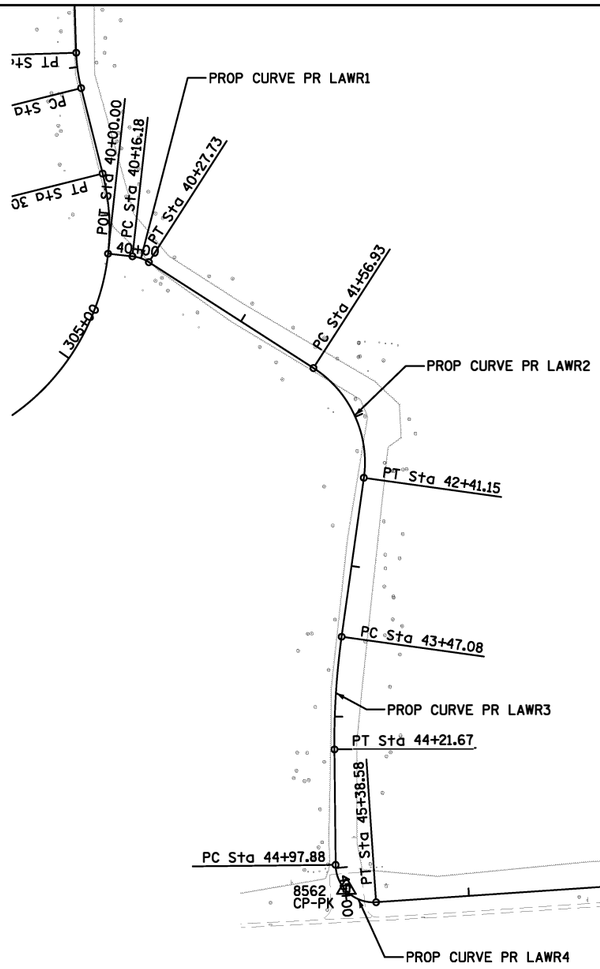
PROP. CURVE PR_LAWR5
PI STA. = 54+26.41
Δ = 13° 00′ 09″ (RT)
D = 57° 17′ 45″
R = 100.00′
T = 11.40′
L = 22.69′
E = 0.65′
P.C. STA. = 54+15.01
P.T. STA. = 54+37.71

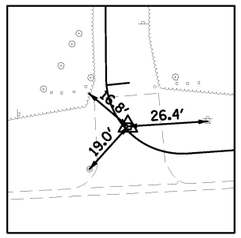
PROP. CURVE PR_LAWR6
PI STA. = 54+61.90
Δ = 27° 12′ 16″ (LT)
D = 57° 17′ 45″
R = 100.00′
T = 24.20′
L = 47.48′
E = 2.89′
P.C. STA. = 54+37.71
P.T. STA. = 54+85.19

PROP. CURVE PR_LAWR7
PI STA. = 54+98.75
Δ = 15° 27′ 02″ (RT)
D = 57° 17′ 45″
R = 100.00′
T = 13.57′
L = 26.97′
E = 0.92′
P.C. STA. = 54+85.19
P.T. STA. = 55+12.15

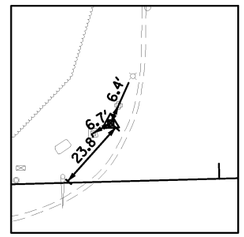
	ELEVATION BENCHMARKS DATUM:NAVD '88 (GPS OBSERVED)	
NO.	DESCRIPTION	ELEV.
OSBM	IRON ROD W/ CAP IN GRASS APPROX. 6′ ±	629.65
7032	NORTHWEST OF TRAFFIC HANDHOLE AND APPROX. 6′ ± SOUTHWEST MOST EASTERLY TRAFFIC SIGNAL AT THE NORTHWEST CORNER OF EAST RIVER RD. & LAWRENCE AV.	

50 0 50
SCALE IN FEET





CP 8562-PK NAIL
STA. 45+15.91, 1.04 LT
N 1930722.61
E 1115545.13



CP 7032-REBAR
STA. 55+64.64, 19.37 LT
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E 1116587.72

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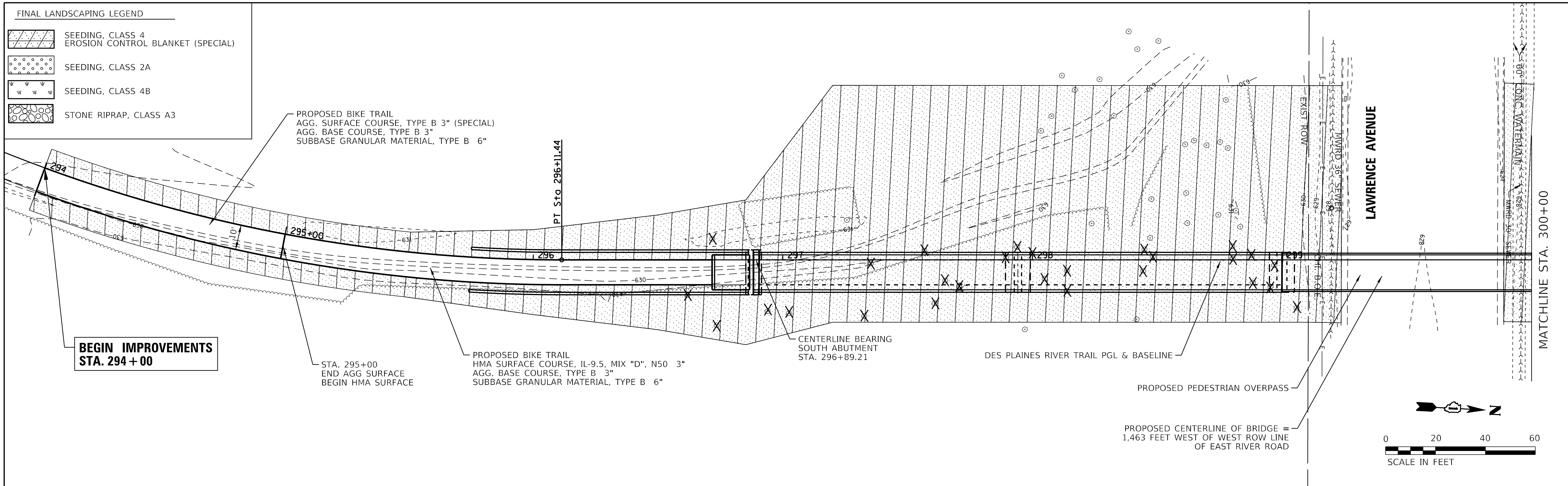
	PLOT SCALE = 100′	DRAWN -	REVISED -
Default	PLOT DATE = 4/22/2022	CHECKED -	REVISED -
		DATE -	REVISED -

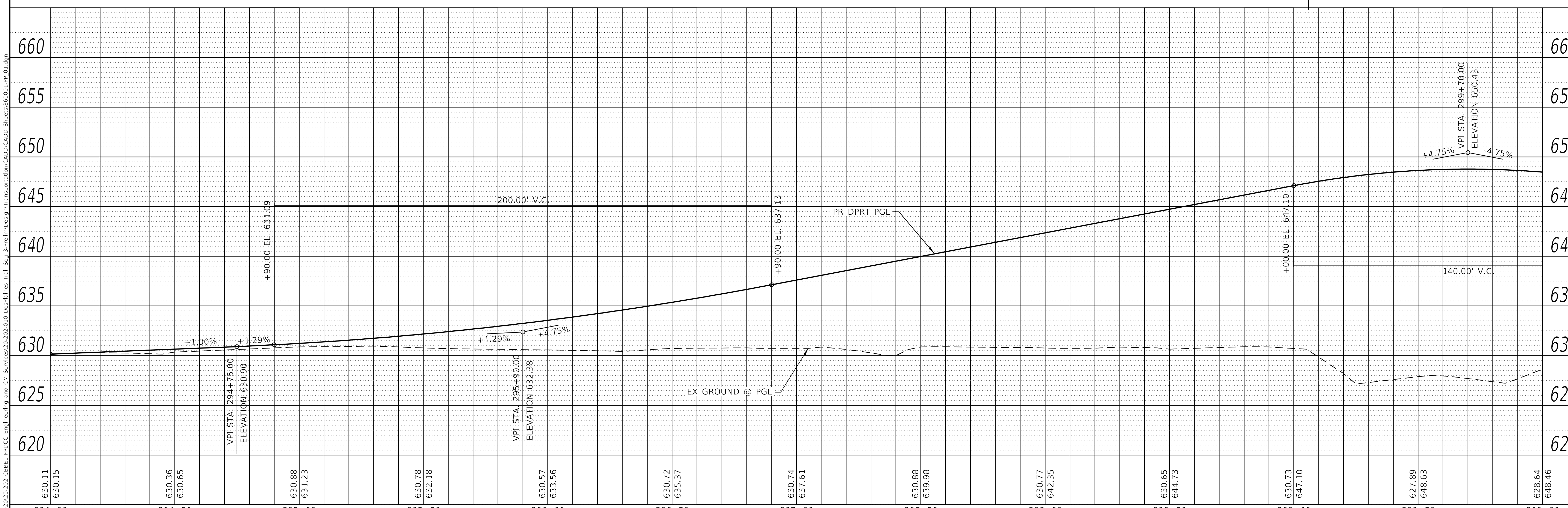
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ALIGNMENTS, TIES AND BENCHMARKS

SCALE: 1:100 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	23
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			


FINAL LANDSCAPING LEGEND
SEEDING, CLASS 4
EROSION CONTROL BLANKET (SPECIAL)
SEEDING, CLASS 2A
SEEDING, CLASS 4B
STONE RIPRAP, CLASS A3
PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
PT Sta 296+11.44
BEGIN IMPROVEMENTS
STA. 294+00
STA. 295+00
END AGG SURFACE
BEGIN HMA SURFACE
PROPOSED BIKE TRAIL
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
CENTERLINE BEARING
SOUTH ABUTMENT
STA. 296+89.21
DES PLAINES RIVER TRAIL PGL & BASELINE
PROPOSED PEDESTRIAN OVERPASS
PROPOSED CENTERLINE OF BRIDGE =
1,463 FEET WEST OF WEST ROW LINE
OF EAST RIVER ROAD
LAWRENCE AVENUE
EXIST ROW
MATCHLINE STA. 300+00
SCALE IN FEET
0 20 40 60


200.00' V.C.
140.00' V.C.
+90.00 EL. 631.09
+90.00 EL. 637.13
+00.00 EL. 647.10
VPI STA. 294+75.00
ELEVATION 630.90
VPI STA. 295+90.00
ELEVATION 632.38
VPI STA. 299+70.00
ELEVATION 650.43
+1.00%
+1.29%
+4.75%
-4.75%
PR DPRT PGL
EX GROUND @ PGL
294+00
294+50
295+00
295+50
296+00
296+50
297+00
297+50
298+00
298+50
299+00
299+50
300+00

Station	294+00	294+50	295+00	295+50	296+00	296+50	297+00	297+50	298+00	298+50	299+00	299+50	300+00
Existing	630.11	630.36	630.88	630.78	630.57	630.72	630.74	630.88	630.77	630.65	630.73	627.89	628.64
Proposed	630.15	630.65	631.23	632.18	633.56	635.37	637.61	639.98	642.35	644.73	647.10	648.63	648.46

TERRA ENGINEERING LTD.

USER NAME = DavidL
PLOT SCALE = 40.0000 ' / in.
PLOT DATE = 6/3/2022

DESIGNED - | DRAWN - | CHECKED - | DATE -
REVISED - | REVISED - | REVISED - | REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 1 OF 18 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	24

CONTRACT NO.61H87
ILLINOIS | FED. AID PROJECT

MODEL: Default
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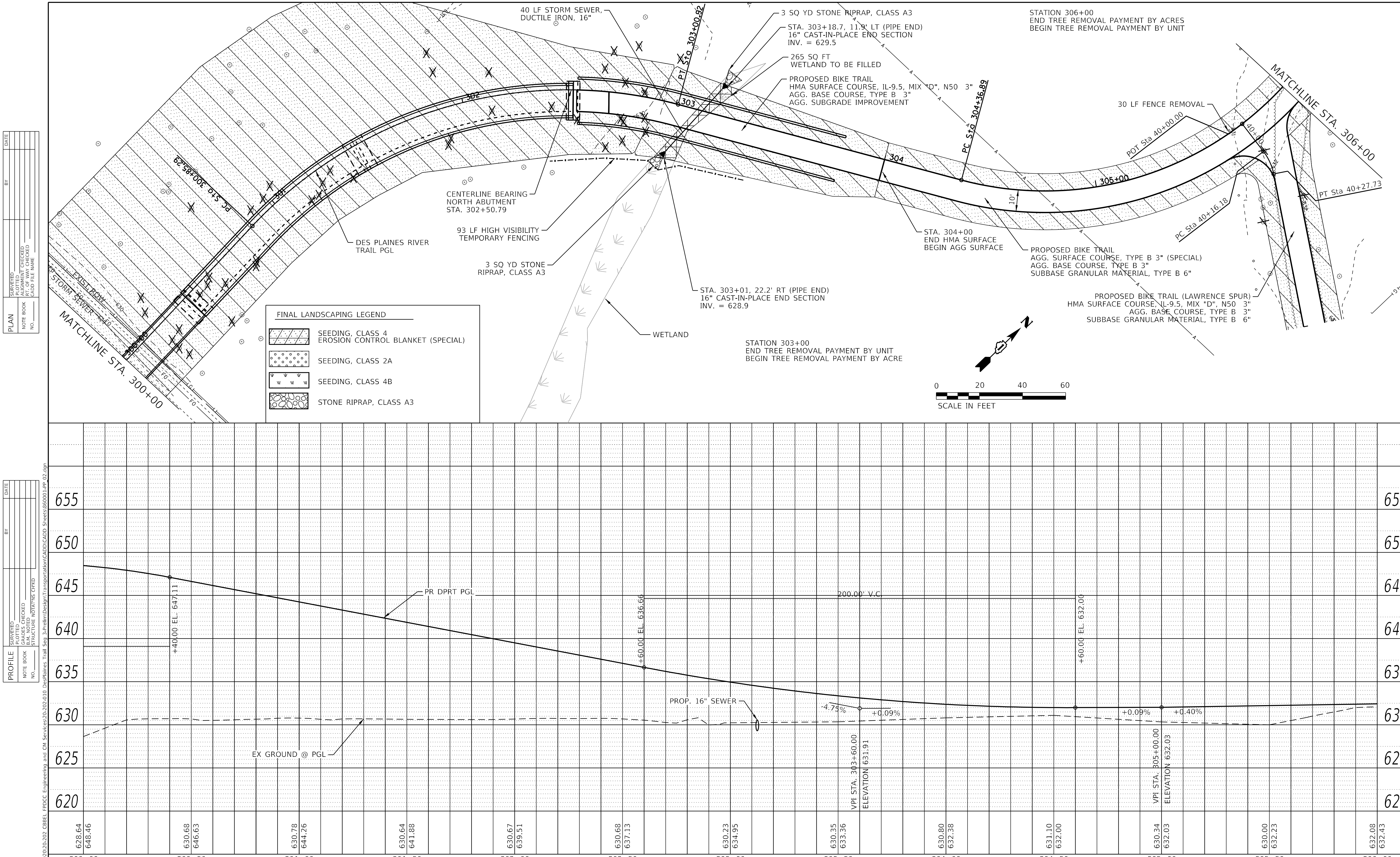

40 LF STORM SEWER, DUCTILE IRON, 16"
PT Sta 303+00.82
3 SQ YD STONE RIPRAP, CLASS A3
STA. 303+18.7, 11.9' LT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 629.5
265 SQ FT WETLAND TO BE FILLED
PROPOSED BIKE TRAIL
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
AGG. SUBGRADE IMPROVEMENT
PC Sta 304+36.89
STATION 306+00
END TREE REMOVAL PAYMENT BY ACRES
BEGIN TREE REMOVAL PAYMENT BY UNIT
30 LF FENCE REMOVAL
POT Sta 40+00.00
MATCHLINE STA. 306+00
PT Sta 40+27.73
PC Sta 40+16.18
PC Sta 300+85.29
CENTERLINE BEARING NORTH ABUTMENT STA. 302+50.79
93 LF HIGH VISIBILITY TEMPORARY FENCING
DES PLAINES RIVER TRAIL PGL
3 SQ YD STONE RIPRAP, CLASS A3
STA. 303+01, 22.2' RT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 628.9
WETLAND
STA. 304+00
END HMA SURFACE
BEGIN AGG SURFACE
PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
PROPOSED BIKE TRAIL (LAWRENCE SPUR)
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
STATION 303+00
END TREE REMOVAL PAYMENT BY UNIT
BEGIN TREE REMOVAL PAYMENT BY ACRE
EXIST ROW
STORM SEWER
MATCHLINE STA. 300+00
FINAL LANDSCAPING LEGEND
SEEDING, CLASS 4
EROSION CONTROL BLANKET (SPECIAL)
SEEDING, CLASS 2A
SEEDING, CLASS 4B
STONE RIPRAP, CLASS A3
N
0 20 40 60
SCALE IN FEET
302
303
304
305+00
10'
655
650
645
640
635
630
625
620
+40.00 EL. 647.11
PR DPRT PGL
+60.00 EL. 636.66
200.00' V.C.
+60.00 EL. 632.00
PROP. 16" SEWER
-4.75%
+0.09%
+0.09%
+0.40%
EX GROUND @ PGL
VPI STA. 303+60.00
ELEVATION 631.91
VPI STA. 305+00.00
ELEVATION 632.03
628.64 648.46
630.68 646.63
630.78 644.26
630.64 641.88
630.67 639.51
630.68 637.13
630.23 634.95
630.35 633.36
630.80 632.38
631.10 632.00
630.34 632.03
630.00 632.23
632.08 632.43
300+00
300+50
301+00
301+50
302+00
302+50
303+00
303+50
304+00
304+50
305+00
305+50
306+00
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
BY
DATE
PROFILE
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHK'D

MODEL: Default
FILE NAME: ...\2020-20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_02.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/3/2022	DATE -	REVISED -	

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 2 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	25
		CONTRACT NO.61H87		
	ILLINOIS	FED. AID PROJECT		

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

N

0 20 40 60

SCALE IN FEET

PT Sta 306+21.72

PC Sta 306+85.91

PT Sta 307+09.48

MATCHLINE STA. 306+00

MATCHLINE STA. 312+00

DES PLAINES RIVER TRAIL PGL

RELOCATE SIGN PANEL ASSEMBLY, TYPE A

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

CURVE AHEAD SIGN
STA. 311+50
W1-2 (18"X18")
9 LF TYPE A POST

PC Sta 40+16.18

10'

PR DPRT PGL

EX GROUND @ PGL

+0.40% -1.15% -1.15% +0.12%

VPI STA. 308+44.00
ELEVATION 633.40

+19.00 EL. 633.30

50.00' V.C.

+69.00 EL. 633.11

+76.34 EL. 633.03

50.00' V.C.

VPI STA. 309+01.84
ELEVATION 632.74

+26.34 EL. 632.77

655 650 645 640 635 630 625 620 615

632.08 632.43 | 632.29 632.63 | 632.44 632.83 | 632.69 633.03 | 632.78 633.22 | 632.99 | 632.50 | 632.51 | 632.51 632.86 | 632.50 632.92 | 632.57 632.98 | 632.75 633.04 | 632.86 633.10

306+00 306+50 307+00 307+50 308+00 308+50 309+00 309+50 310+00 310+50 311+00 311+50 312+00

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NO'S/TYPES CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-A10 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_03.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 3 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	26
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

MATCHLINE STA. 312+00

PC Sta 312+14.82

10'

RELOCATE SIGN PANEL ASSEMBLY, TYPE A

PT Sta 313+31.68

PC Sta 313+88.36

PRC Sta 314+10.47

DES PLAINES RIVER TRAIL PGL

PRC Sta 314+76.80

PT Sta 314+98.92

313

314

315+00

316

317

10'

MATCHLINE STA. 318+00

TURN AROUND AREA

RELOCATE SIGN PANEL ASSEMBLY, TYPE A

REALIGN EXISTING TRAIL TO CONNECT TO PROPOSED TRAIL

CURVE AHEAD SIGN
STA. 314+00
W1-2 (18"X18")
9 LF TYPE A POST

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

N

0 20 40 60
SCALE IN FEET

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

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

655 650 645 640 635 630 625 620 615

632.86 633.10 | 632.41 633.16 | 632.47 633.42 | 633.62 633.97 | 634.20 634.53 | 634.23 634.78 | 633.66 634.42 | 632.96 633.75 | 632.49 633.09 | 631.95 632.42 | 631.38 631.76 | 630.84 631.10 | 630.04 630.43

312+00 312+50 313+00 313+50 314+00 314+50 315+00 315+50 316+00 316+50 317+00 317+50 318+00

+55.00 EL. 633.17
50.00' V.C.
+05.00 EL. 633.48
+0.12%
+1.11%
VPI STA. 312+80.00
ELEVATION 633.20
+1.11%
VPI STA. 314+50.00
ELEVATION 635.08
-1.33%
PR DPRT PGL
EX GROUND @ PGL
+00.00 EL. 634.53
100.00' V.C.
+00.00 EL. 634.42

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_04.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 4 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	27
		CONTRACT NO.61H87		
		ILLINOIS	FED. AID PROJECT	

STA. 319+96.5, 20' LT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 626.8

3 SQ YD STONE RIPRAP, CLASS A3

TURN AROUND AREA

AGGREGATE SUBGRADE IMPROVEMENT TO BE USED FOR FILL

38 LF STORM SEWER, DUCTILE IRON, 16"

RELOCATE SIGN PANEL ASSEMBLY, TYPE A

PRC Sta 320+92.92

FLOODWAY BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

74 LF RUSTIC RAIL FENCE

PC Sta 319+38.16

3 SQ YD STONE RIPRAP, CLASS A3

STA. 319+96.5, 18' RT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 627.0

100 YEAR FLOODPLAIN BOUNDARY

DES PLAINES RIVER

LIMITS OF TRAIL RESURFACING

NO EXCAVATION

LIMITS OF TRAIL RECONSTRUCTION

STA 319+87

CURVE AHEAD SIGN
STA. 321+50
W1-2 (18"X18")
9 LF TYPE A POST

CURVE AHEAD SIGN
STA. 318+80
W1-2 (18"X18")
9 LF TYPE A POST

WETLAND

DES PLAINES RIVER TRAIL PGL

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

MATCHLINE STA. 318+00

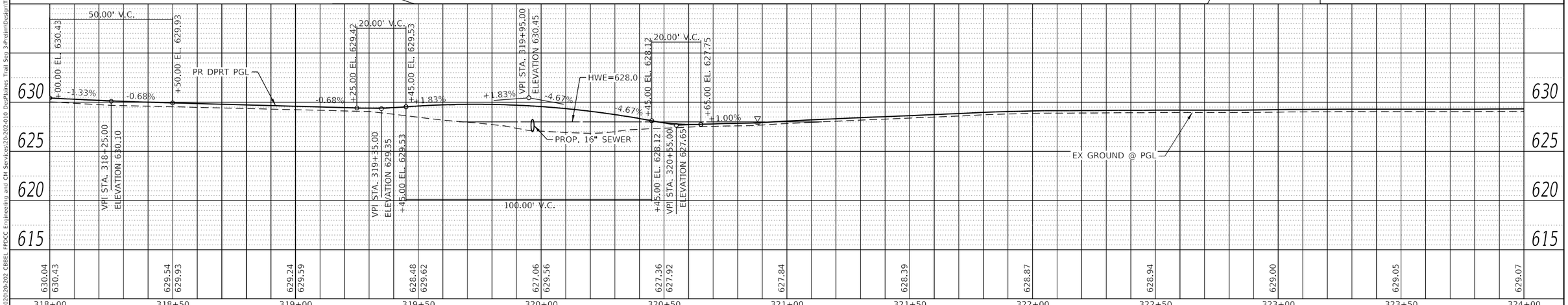
MATCHLINE STA. 324+00

N

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3



PLAN
SURVEYED
PLOTTED
QUANTITIES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
QUANTITIES CHECKED
BM. NOTED
STRUCTURE NO'S/MI'S CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: Mt. 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\86000-PP_05.dgn

TERRA ENGINEERING LTD.

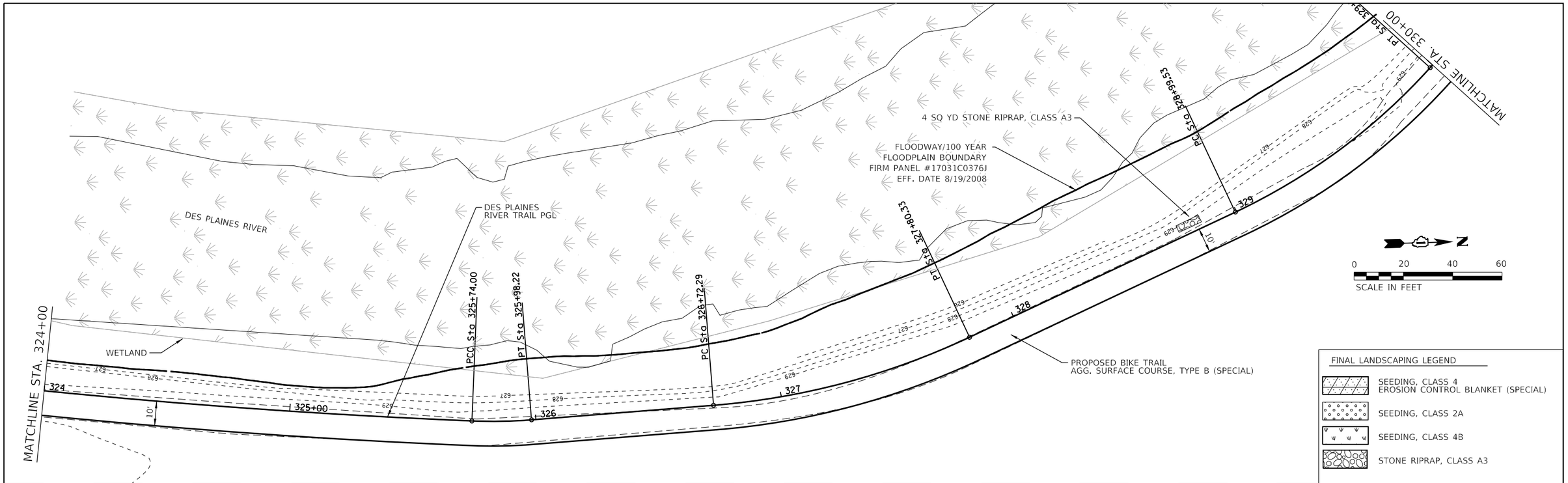
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

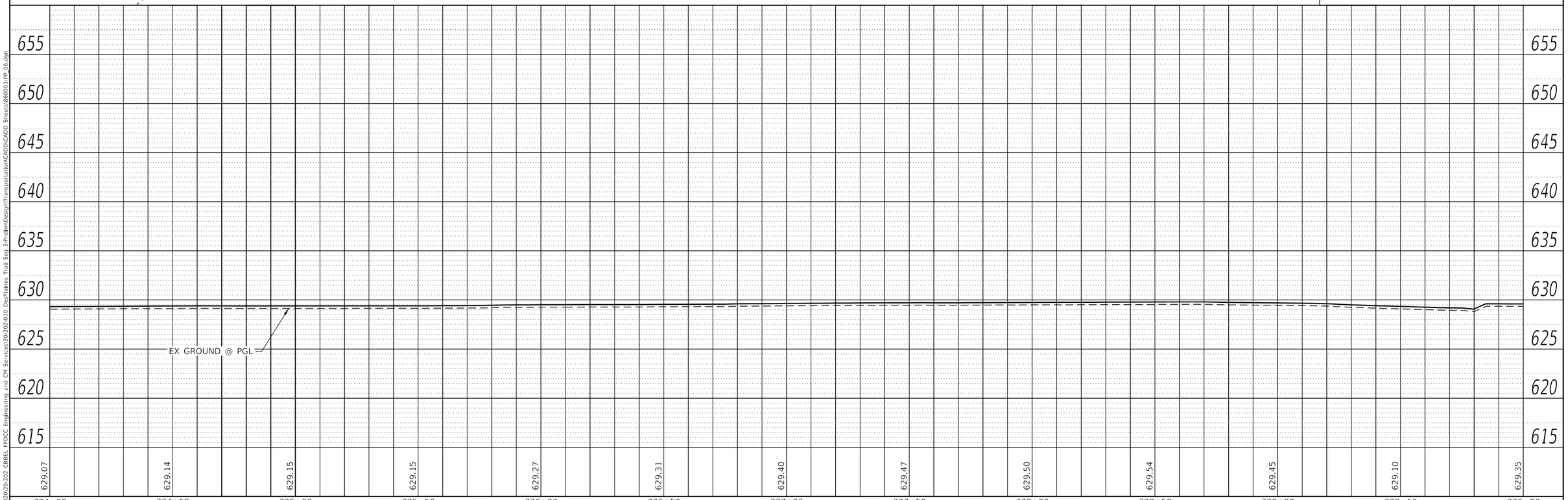
FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 5 OF 18 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	28
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			





PLAN
SURVEYED
PLOTTED
CROSS CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

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

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-2024010 DesPlaines Trail Seg 3-Pelim\Design\Transportation\CADD\CADD Sheets\860001-PP_06.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 6 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	29
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

DES PLAINES RIVER

DES PLAINES RIVER TRAIL PGL

4 SQ YD STONE RIPRAP, CLASS A3
60 SQ FT TIMBER RETAINING WALL

PC Sta 331+91.22

PRC Sta 332+35.96

PT Sta 332+74.70

100 YEAR FLOODPLAIN BOUNDARY

WETLAND

FLOODWAY BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

MWRD 120" X 108" OUTFALL SEWER

PC Sta 334+42.35

MANHOLE TO BE ADJUSTED

PRC Sta 335+18.81

198 LF HIGH VISIBILITY TEMPORARY FENCING

MWRD 36" SEWER

MATCHLINE STA. 330+00

MATCHLINE STA. 336+00

330+00 331 332 333 334 335+00

10'

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B (SPECIAL)

4 SQ YD STONE RIPRAP, CLASS A3

LIMITS OF TRAIL RESURFACING
NO EXCAVATION

LIMITS OF TRAIL RECONSTRUCTION

STA. 334+00

EXISTING GEOGRID TO REMAIN IN PLACE

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

CONTRACTOR ACCESS ROAD. ANY DAMAGE CAUSED BY CONTRACTOR SHALL BE PAID FOR AS GROUND STABILIZATION SYNTHETIC

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING MWRD FACILITIES FROM ALL CONSTRUCTION OPERATIONS AND EQUIPMENT. EXTRA CAUTION SHALL BE TAKEN TO PROTECT THE SAFETY AND INTEGRITY OF MWRD FACILITIES. IN ORDER TO MAINTAIN SERVICE, NO ACCESS HATCHES AND MANHOLE COVERS ON MWRD STRUCTURES AND MANHOLES WITHIN THE PROJECT AREA SHALL BE BURIED OR COVERED AND NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWER, OR FACILITIES. MWRD PERSONNEL SHALL HAVE 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL MWRD FACILITIES.

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

PLAN — SURVEYED, PLOTTED, CROSS CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CAUD FILE NAME, NOTE BOOK, NO., BY, DATE

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

650 645 640 635 630 625 620 615 610

EX GROUND @ PGL

PR DPRT PGL

+65.00 EL. 628.72

70.00' V.C.

+35.00 EL. 629.45

VPI STA. 335+65.00
ELEVATION 630.00

+95.00 EL. 630.00

60.00' V.C.

VPI STA. 335+00.00
ELEVATION 628.80

+0.24%

+1.85%

+1.85%

+0.00%

629.35 629.16 629.10 629.02 628.78 629.23 629.19 628.20 628.18 628.56 628.36 628.68 628.55 628.94 629.18 629.69 628.61 630.00

330+00 330+50 331+00 331+50 332+00 332+50 333+00 333+50 334+00 334+50 335+00 335+50 336+00

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Sec 3\Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_07.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 7 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	30
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

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

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

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\86000)-PP_08.dgn

WETLAND

PT Sta 337+17.82

PC Sta 338+09.52

PT Sta 339+41.89

329 LF HIGH VISIBILITY TEMPORARY FENCING

PRC Sta 336+18.82

MATCHLINE STA. 336+00

PROPOSED BOARDWALK PIERS (TYP.)

PROPOSED BOARDWALK

EXPLORATION TRENCH 84" DEPTH

BEGIN BOARDWALK STA. 336+00

48" WATERMAIN IN 6'-6" TUNNEL

100 YEAR FLOODPLAIN BOUNDARY

FLOODWAY BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

164 LF HIGH VISIBILITY TEMPORARY FENCING

WETLAND

WETLAND

PC Sta 341+08.59

PT Sta 341+61.76

DES PLAINES RIVER TRAIL PGL

MATCHLINE STA. 342+00

N

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

HWE=628.0

PROPOSED BOARDWALK

PR DPRT PGL

EX GROUND @ PGL

650 645 640 635 630 625 620 615 610

628.61 630.00 | 628.20 630.00 | 627.60 630.00 | 626.09 630.00 | 624.55 630.00 | 623.99 630.00 | 623.54 630.00 | 623.34 630.00 | 623.15 630.00 | 623.48 630.00 | 624.19 630.00 | 624.22 630.00 | 623.93 630.00

336+00 336+50 337+00 337+50 338+00 338+50 339+00 339+50 340+00 340+50 341+00 341+50 342+00

TERRA ENGINEERING LTD.

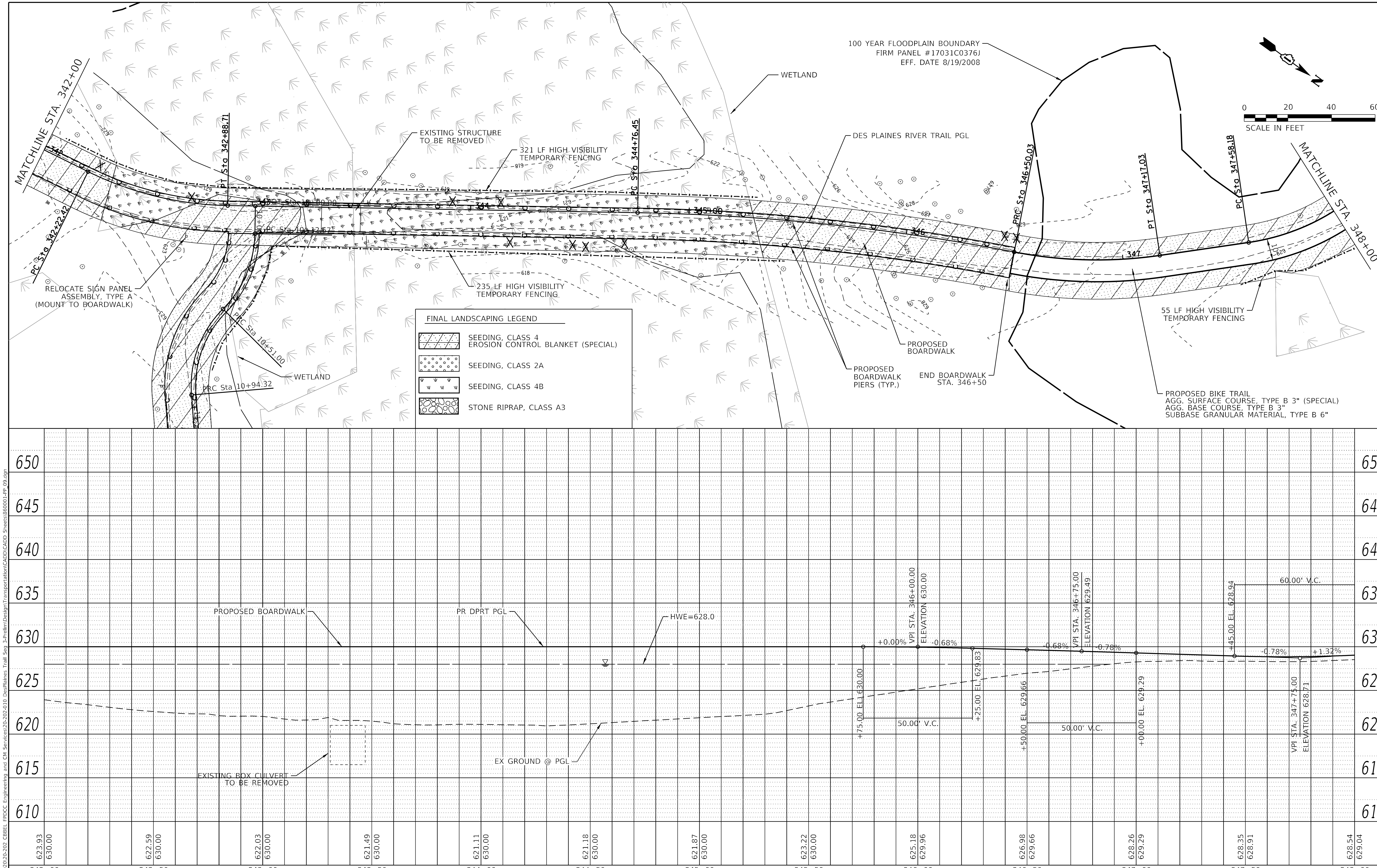
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 8 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	31
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			



MATCHLINE STA. 342+00
MATCHLINE STA. 348+00
100 YEAR FLOODPLAIN BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008
WETLAND
0 20 40 60
SCALE IN FEET
DES PLAINES RIVER TRAIL PGL
EXISTING STRUCTURE
TO BE REMOVED
321 LF HIGH VISIBILITY
TEMPORARY FENCING
PT Sta 342+88.71
PC Sta 344+76.45
PRC Sta 346+50.03
PT Sta 347+17.03
PC Sta 347+58.18
PC Sta 342+22.42
RELOCATE SIGN PANEL
ASSEMBLY, TYPE A
(MOUNT TO BOARDWALK)
235 LF HIGH VISIBILITY
TEMPORARY FENCING
PRC Sta 10+51.00
PRC Sta 10+94.32
WETLAND
FINAL LANDSCAPING LEGEND
SEEDING, CLASS 4
EROSION CONTROL BLANKET (SPECIAL)
SEEDING, CLASS 2A
SEEDING, CLASS 4B
STONE RIPRAP, CLASS A3
PROPOSED
BOARDWALK
PROPOSED
BOARDWALK
PIERS (TYP.)
END BOARDWALK
STA. 346+50
55 LF HIGH VISIBILITY
TEMPORARY FENCING
PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"
650
645
640
635
630
625
620
615
610
PROPOSED BOARDWALK
PR DPRT PGL
HWE=628.0
VPI STA. 346+00.00
ELEVATION 630.00
+0.00%
-0.68%
VPI STA. 346+75.00
ELEVATION 629.49
-0.68%
-0.78%
-0.78%
+1.32%
60.00' V.C.
+45.00 EL. 628.94
+75.00 EL. 630.00
+25.00 EL. 629.83
50.00' V.C.
+50.00 EL. 629.66
50.00' V.C.
+00.00 EL. 629.29
VPI STA. 347+75.00
ELEVATION 628.71
EXISTING BOX CULVERT
TO BE REMOVED
EX GROUND @ PGL
623.93 630.00
622.59 630.00
622.03 630.00
621.49 630.00
621.11 630.00
621.18 630.00
621.87 630.00
623.22 630.00
625.18 629.96
626.98 629.66
628.26 629.29
628.35 628.91
628.54 629.04
342+00
342+50
343+00
343+50
344+00
344+50
345+00
345+50
346+00
346+50
347+00
347+50
348+00

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 9 OF 18 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	32
		CONTRACT NO.61H87		
		ILLINOIS FED. AID PROJECT		

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

PROFILE: NOTE BOOK NO. / SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D / BY / DATE

MODEL: Default
FILE NAME: ...2020-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP-09.dgn

PT Sta 349+37.86

PC Sta 349+76.36

3 SQ YD STONE RIPRAP, CLASS A3

STA. 350+28.6, 8.7' LT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 627.0

CONCRETE HEADWALL
FOR PIPE UNDERDRAIN

45 LF HIGH VISIBILITY TEMPORARY FENCING

CONCRETE HEADWALL
FOR PIPE UNDERDRAIN

PC Sta 348+59.69

100 YEAR
FLOODPLAIN
BOUNDARY

TURN AROUND AREA

62 LF PIPE UNDERDRAIN 6"
(SPECIAL)

223 SQ FT
WETLAND TO BE FILLED

135 LF PIPE
UNDERDRAIN 6"
(SPECIAL)

PT Sta 348+41.84

WETLAND

PT Sta 351+51.12

DES PLAINES RIVER TRAIL PGL

28 LF STORM SEWER,
DUCTILE IRON, 16"

42 LF HIGH VISIBILITY
TEMPORARY FENCING

STA. 350+18.7, 18.7' RT (PIPE END)
16" CAST-IN-PLACE END SECTION
INV. = 627.5

3 SQ YD STONE RIPRAP, CLASS A3

MATCHLINE STA. 348+00

WETLAND

78 LF HIGH VISIBILITY
TEMPORARY FENCING

100 YEAR FLOODPLAIN BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

WETLAND

81 LF HIGH VISIBILITY
TEMPORARY FENCING

MATCHLINE STA. 354+00

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

PROFILE

PR DPRT PGL

EX GROUND @ PGL

+05.00 EL. 629.10
VPI STA. 348+35.00
ELEVATION 629.50
+1.32%
-0.83%
60.00' V.C.
+65.00 EL. 629.25
+35.00 EL. 628.67
40.00' V.C.
+75.00 EL. 629.2
+3.57%
-4.29%
VPI STA. 349+55.00
ELEVATION 628.50
VPI STA. 350+25.00
ELEVATION 631.00
HWE=628.0
+75.00 EL. 628.86
40.00' V.C.
+15.00 EL. 628.11
+0.55%
+0.24%
VPI STA. 352+20.00
ELEVATION 628.69
+95.00 EL. 628.55
+45.00 EL. 628.75
50.00' V.C.
INV.=627.0
INV.=627.3
PIPE UNDERDRAIN 6"
(SPECIAL) @ 0.6%
PROP. 16" SEWER
100.00' V.C.
VPI STA. 350+95.00
ELEVATION 628.00
PIPE UNDERDRAIN 6"
(SPECIAL) @ 0%

635 630 625 620

628.54 629.04 | 628.99 629.33 | 628.34 628.96 | 628.27 628.67 | 628.19 629.86 | 627.92 629.68 | 627.72 628.16 | 627.88 628.30 | 628.12 628.58 | 628.45 628.76 | 628.44 628.88 | 628.51 629.00 | 628.81 629.12

348+00 348+50 349+00 349+50 350+00 350+50 351+00 351+50 352+00 352+50 353+00 353+50 354+00

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

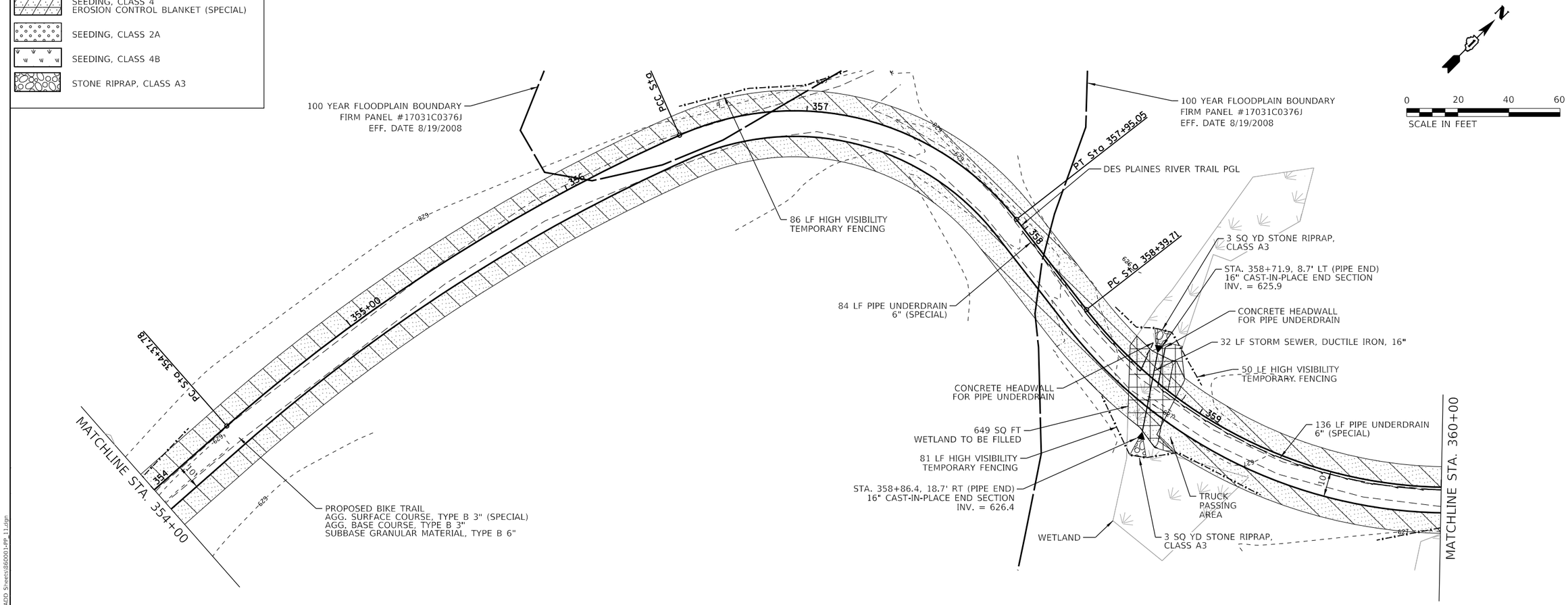
SCALE: 1" = 20' | SHEET 10 OF 18 SHEETS | STA. | TO STA.

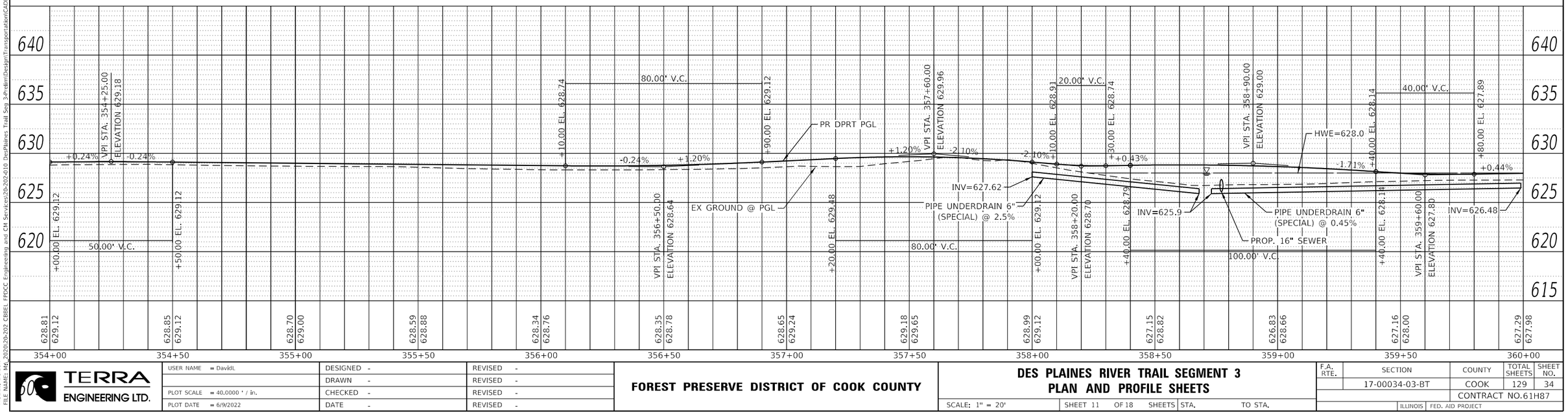
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	33
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-A10 DesPlaines Trail Seg 3-Pelim\Design\Transportation\CADD\CADD Sheets\86001-PP_10.dgn

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3





PLAN — SURVEYED; PLOTTED; CROSS CHECKED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; CROSS CHECKED; B.M. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Sec 3-Palm\Design\Transportation\CADD\CADD Sheets\860001-PP_11.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 11 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	34
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

100 YEAR FLOODPLAIN BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

MATCHLINE STA. 360+00

PT Sta 360+10.13

PC Sta 360+73.61

PT Sta 362+25.28

DES PLAINES RIVER TRAIL PGL

113 LF HIGH VISIBILITY TEMPORARY FENCING

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

PC Sta 365+58.81

MATCHLINE STA. 366+00

WETLAND

0 20 40 60
SCALE IN FEET

PROFILE

+0.44% | +1.34% | +0.35% | +0.35% | -0.30%

+55.00 EL. 628.22 — 50.00' V.C. — +05.00 EL. 628.67

VPI STA. 360+80.00
ELEVATION 628.33

VPI STA. 361+30.00
ELEVATION 629.00

+05.00 EL. 628.67 — 50.00' V.C. — +55.00 EL. 629.09

EX GROUND @ PGL

PR DPRT PGL

+80.00 EL. 629.87 — 100.00' V.C. — +80.00 EL. 629.90

VPI STA. 364+30.00
ELEVATION 630.05

	360+00	360+50	361+00	361+50	362+00	362+50	363+00	363+50	364+00	364+50	365+00	365+50	366+00
EX GROUND	627.98	628.20	628.60	629.07	629.24	629.42	629.59	629.77	629.93	629.96	629.84	629.69	629.54
PROFILE GRADE	627.29	627.44	627.94	628.46	628.76	628.80	629.14	629.39	629.53	629.59	629.57	629.54	629.47

640 / 635 / 630 / 625 / 620 / 615

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 12 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	35
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CAUD FILE NAME / NOTE BOOK / NO. / BY / DATE

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

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Sec 3-Pelim\Design\Transportation\CADD\CADD Sheets\860001-PP_12.dgn

36" V.
NOT LOCATED

36" DIP IN CONC.
ENCASEMENT

DES PLAINES RIVER

CONCRETE HEADWALL
FOR PIPE UNDERDRAIN

FLOODWAY/100 YEAR
FLOODPLAIN BOUNDARY
FIRM PANEL #17031C0376J
EFF. DATE 8/19/2008

WETLAND

115 LF HIGH VISIBILITY
TEMPORARY FENCING

DES PLAINES
RIVER TRAIL PGL

PT STA 366+58.87

367

10'

END IMPROVEMENT
STA. 367+14.80

72 LF PIPE UNDERDRAIN 6" (SPECIAL)

PROPOSED BIKE TRAIL
AGG. SURFACE COURSE, TYPE B 3" (SPECIAL)
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

MATCHLINE STA. 366+00

TRUCK PASSING AREA

36" V.
(NOT LOCATED)
48" CONC. WATERMAIN

N

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4
  EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

PROFILE

PR DPRT PGL

629.20

INV=627.89

INV=627.7

PIPE UNDERDRAIN 6"
(SPECIAL) @ 0.3%

EX GROUND @ PGL

635 630 625 620 615

629.47 629.54 629.08 629.39 628.96 629.24 628.66

366+00 366+50 367+00 367+50

PLAN
SURVEYED
PLOTTED
ASBUILT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECT. CHECKED
ILM. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-4010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_13.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/9/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 13 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	36
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

MANHOLE TO BE ADJUSTED

PC Sta 41+56.93

PT Sta 42+41.15

CURVE AHEAD SIGN
STA. 43+00
W1-2 (18"X18")
9 LF TYPE A POST

PC Sta 43+47.08

PT Sta 40+21.73

PC Sta 40+16.18

DES PLAINES
RIVER TRAIL PGL

CURVE AHEAD SIGN
STA. 41+00
W1-2 (18"X18")
9 LF TYPE A POST

PROPOSED BIKE TRAIL
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

RELOCATE SIGN PANEL ASSEMBLY, TYPE A
HANDHOLE TO BE ADJUSTED

REMOVE EXIST. GATE
REMOVE GATE POSTS
3 SQ FT REMOVE SIGN PANEL

PT Sta 44+21.67

MATCHLINE STA. 46+00

PC Sta 44+97.88

CONC. WATERWAY

LAWRENCE AVENUE

PT Sta 45+38.58

CURVE AHEAD SIGN
STA. 44+00
W1-1 (18"X18")
9 LF TYPE A POST

RELOCATE SIGN PANEL
ASSEMBLY, TYPE A

EXIST. ROW

96" STORM SEWER

30" STORM SEWER

77 SQ YD DRIVEWAY
PAVEMENT REMOVAL
64 LF CURB REMOVAL

PT Sta 306+21.72

306+00

308+00

0 20 40 60
SCALE IN FEET

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

PR DPRT
(LAWRENCE) PGL

EX GROUND @ PGL

632.49

+25.00 EL. 631.24

50.00' V.C.

VPI STA. 44+50.00
ELEVATION 631.17

+75.00 EL. 630.76

100.00' V.C.

+75.00 EL. 630.06

VPI STA. 45+25.00
ELEVATION 629.94

-0.30%
-1.64%
-1.64%
+0.25%

40+00	40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00	44+50	45+00	45+50	46+00
631.23	631.75 / 632.37	631.58 / 632.22	631.10 / 632.07	631.07 / 631.92	630.93 / 631.77	630.92 / 631.62	630.92 / 631.47	630.89 / 631.32	630.57 / 631.09	629.30 / 630.41	629.06 / 630.06	629.50 / 630.13

PLAN
DATE
BY
SURVEYED
PLOTTED
DRAWN
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
DRAWN
ALIGNMENT CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-610 DesPlaines Trail Seg 3\Plans\Transportation\CADD\CADD Sheets\886001+PP_14.dgn

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 14 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	37
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
AUTOCAD CHECKED
RT. OF WAY CHECKED
CAiDD FILE NAME
NOTE BOOK
NO.
DATE
BY

MATCHLINE STA. 46+00

PROPOSED BIKE TRAIL
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

60" CONC. WATERMAIN

10'

96" STORM SEWER

MWRD 30" SEWER

CURVE AHEAD SIGN
STA. 46+40
W1-1 (18"X18")
9 LF TYPE A POST

DES PLAINES
RIVER TRAIL PGL

Pl Sta 48+63.60

EXIST ROW

60" CONC. WATERMAIN

MWRD 30" SEWER

930 LF HIGH VISIBILITY
TEMPORARY FENCING

MATCHLINE STA. 51+00

LAWRENCE AVENUE

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

EXIST ROW

N

0 20 40 60
SCALE IN FEET

PROFILE
SURVEYED
PLOTTED
CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

PR DPRT
(LAWRENCE) PGL

EX GROUND @ PGL

+0.25% -0.34%

VPI STA. 47+70.00
ELEVATION 630.55

+45.00 EL. 630.49

+95.00 EL. 630.47

50.00' V.C.

+25.00 EL 630.02

50.00' V.C.

+75.00 EL 630.01

-0.34% +0.27%

VPI STA. 49+50.00
ELEVATION 629.94

645	640	635	630	625	620	615

46+00	46+50	47+00	47+50	48+00	48+50	49+00	49+50	50+00	50+50	51+00
629.50 630.13	629.54 630.25	629.61 630.38	629.96 630.50	629.91 630.45	629.66 630.28	629.63 630.11	629.61 629.98	629.76 630.08	629.80 630.21	629.88 630.35

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_15.dgn

TERRA ENGINEERING LTD.

USER NAME = JuanS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 15 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	38
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

FINAL LANDSCAPING LEGEND

- SEEDING, CLASS 4 EROSION CONTROL BLANKET (SPECIAL)
- SEEDING, CLASS 2A
- SEEDING, CLASS 4B
- STONE RIPRAP, CLASS A3

MATCHLINE STA. 51+00

PROPOSED BIKE TRAIL
HMA SURFACE COURSE, IL-9.5, MIX "D", N50 3"
AGG. BASE COURSE, TYPE B 3"
SUBBASE GRANULAR MATERIAL, TYPE B 6"

HIGH VISIBILITY TEMPORARY FENCING

DES PLAINES RIVER TRAIL PGL

36 LF THERMOPLASTIC PAVEMENT MARKING LINE 6" WHITE

RELOCATE SIGN PANEL ASSEMBLY, TYPE B

PC Sta 54+15.01

PRC Sta 54+37.71

PRC Sta 54+85.19

PT Sta 55+12.15

MATCHLINE STA. 55+41.25

EAST RIVER ROAD

LAWRENCE AVENUE

EXIST ROW

60" CONC. WATERMAIN

36" STORM SEWER

MWRD 30" SEWER

CHI. B.O.E.

LEVEL (S)

12" SEWER

SPRINT

END IMPROVEMENT STA. 56+83.8

96" STORM SEWER

COMED TRANSMISSION (HIGH VOLTAGE)

COMED

MWRD 36" SEWER

AT&T

COMED U/G

COMED AERIA

AT&T (SUE LEVEL D)

CHI. B.O.E.

N

0 20 40 60

SCALE IN FEET

PROFILE

PR DPRT (LAWRENCE) PGL

EX GROUND @ PGL

+0.27% -0.17% -0.17% -6.09%

VPI STA. 51+80.00 ELEVATION 630.57

+55.00 EL. 630.50

50.00' V.C.

+05.00 EL. 630.53

VPI STA. 55+41.25 ELEVATION 629.96

VPI STA. 55+54.25 ELEVATION 629.17

629.15

635 630 625 620 615

629.88 630.35 | 630.01 630.49 | 630.02 630.54 | 629.90 630.45 | 629.82 630.37 | 629.79 630.28 | 629.80 630.20 | 629.70 630.12 | 629.86 630.03 | 629.87 629.43 | 629.71 | 629.55 | 630.15

51+00 51+50 52+00 52+50 53+00 53+50 54+00 54+50 55+00 55+50 56+00 56+50 57+00

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

PROFILE: SURVEYED — PLOTTED — PROFILE CHECKED — B.M. NOTED — STRUCTURE NOTATNS CHKED — NOTE BOOK — NO. — BY — DATE

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-prelim\Design\Transportation\CADD\CADD Sheets\860000-PP_16.dgn

TERRA ENGINEERING LTD.

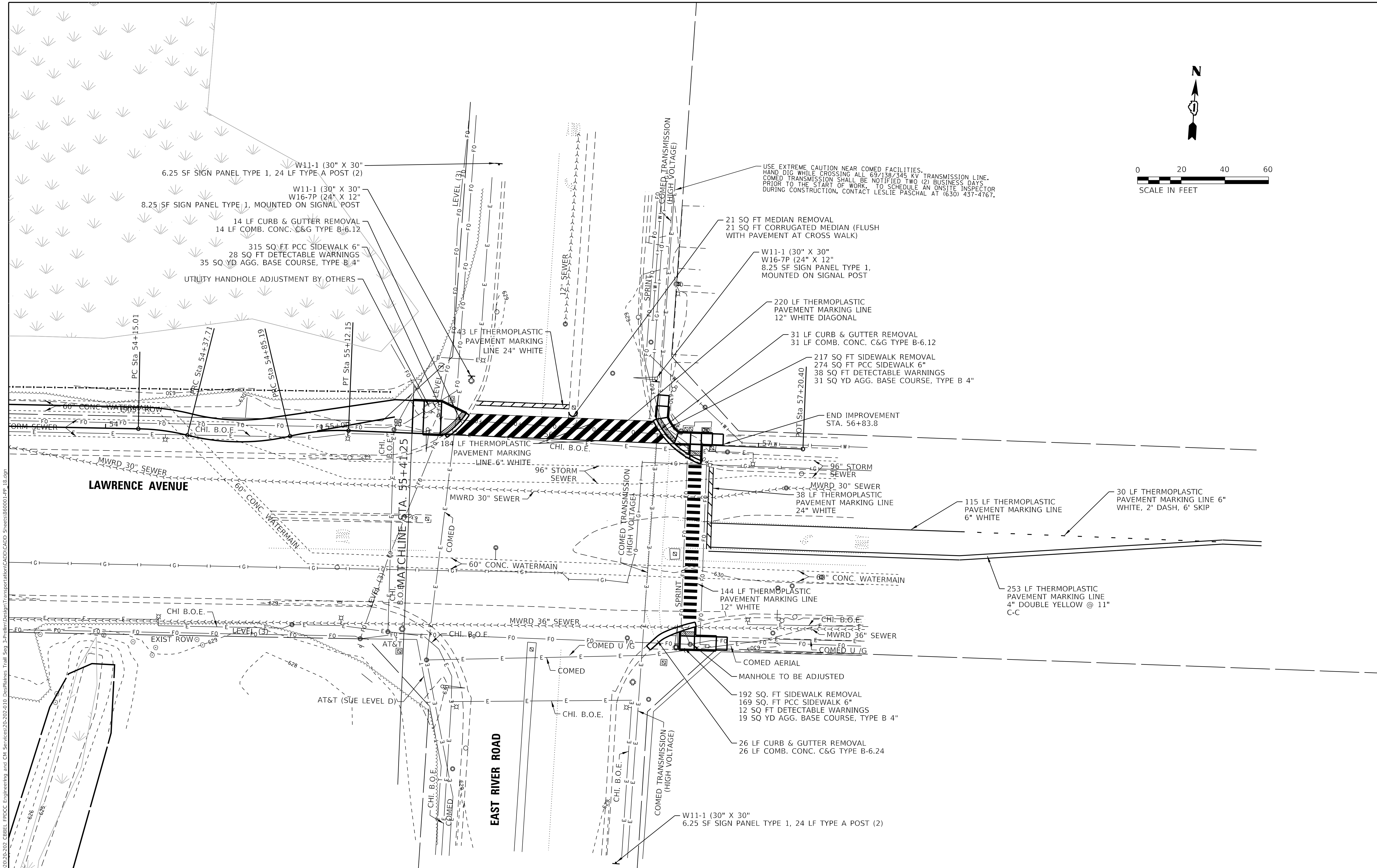
USER NAME = JuanS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 16 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	39
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			


N
0 20 40 60
SCALE IN FEET
W11-1 (30" X 30")
6.25 SF SIGN PANEL TYPE 1, 24 LF TYPE A POST (2)
W11-1 (30" X 30")
W16-7P (24" X 12"
8.25 SF SIGN PANEL TYPE 1, MOUNTED ON SIGNAL POST
14 LF CURB & GUTTER REMOVAL
14 LF COMB. CONC. C&G TYPE B-6.12
315 SQ FT PCC SIDEWALK 6"
28 SQ FT DETECTABLE WARNINGS
35 SQ YD AGG. BASE COURSE, TYPE B 4"
UTILITY HANDHOLE ADJUSTMENT BY OTHERS
43 LF THERMOPLASTIC PAVEMENT MARKING LINE 24" WHITE
USE EXTREME CAUTION NEAR COMED FACILITIES. HAND DIG WHILE CROSSING ALL 69/138/345 KV TRANSMISSION LINE. COMED TRANSMISSION SHALL BE NOTIFIED TWO (2) BUSINESS DAYS PRIOR TO THE START OF WORK. TO SCHEDULE AN ONSITE INSPECTOR DURING CONSTRUCTION, CONTACT LESLIE PASCHAL AT (630) 437-4767.
21 SQ FT MEDIAN REMOVAL
21 SQ FT CORRUGATED MEDIAN (FLUSH WITH PAVEMENT AT CROSS WALK)
W11-1 (30" X 30"
W16-7P (24" X 12"
8.25 SF SIGN PANEL TYPE 1, MOUNTED ON SIGNAL POST
220 LF THERMOPLASTIC PAVEMENT MARKING LINE 12" WHITE DIAGONAL
31 LF CURB & GUTTER REMOVAL
31 LF COMB. CONC. C&G TYPE B-6.12
217 SQ FT SIDEWALK REMOVAL
274 SQ FT PCC SIDEWALK 6"
38 SQ FT DETECTABLE WARNINGS
31 SQ YD AGG. BASE COURSE, TYPE B 4"
END IMPROVEMENT STA. 56+83.8
POT Sta 57+20.40
PC Sta 54+15.01
PRC Sta 54+37.71
PRC Sta 54+85.19
PT Sta 55+12.15
12" SEWER
LEVEL (3)
COMED TRANSMISSION (HIGH VOLTAGE)
SPRINT
60" CONC. WATERMAIN
60" CONC. WATERROW
STORM SEWER
CHI. B.O.E.
184 LF THERMOPLASTIC PAVEMENT MARKING LINE 6" WHITE
96" STORM SEWER
MWRD 30" SEWER
38 LF THERMOPLASTIC PAVEMENT MARKING LINE 24" WHITE
LAWRENCE AVENUE
MATCHLINE STA. 55+41.25
60" CONC. WATERMAIN
115 LF THERMOPLASTIC PAVEMENT MARKING LINE 6" WHITE
30 LF THERMOPLASTIC PAVEMENT MARKING LINE 6" WHITE, 2' DASH, 6' SKIP
COMED
144 LF THERMOPLASTIC PAVEMENT MARKING LINE 12" WHITE
253 LF THERMOPLASTIC PAVEMENT MARKING LINE 4" DOUBLE YELLOW @ 11" C-C
CHI B.O.E.
MWRD 36" SEWER
EXIST ROW
COMED U/G
MWRD 36" SEWER
AT&T
COMED AERIAL
MANHOLE TO BE ADJUSTED
192 SQ. FT SIDEWALK REMOVAL
169 SQ. FT PCC SIDEWALK 6"
12 SQ FT DETECTABLE WARNINGS
19 SQ YD AGG. BASE COURSE, TYPE B 4"
AT&T (SUE LEVEL D)
CHI. B.O.E.
EAST RIVER ROAD
26 LF CURB & GUTTER REMOVAL
26 LF COMB. CONC. C&G TYPE B-6.24
W11-1 (30" X 30"
6.25 SF SIGN PANEL TYPE 1, 24 LF TYPE A POST (2)

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

PROFILE		
NOTE BOOK	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATI'NS CHK'D	BY / DATE
NO.		

MODEL: Default
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\86000 LnPP 18.dgn

TERRA ENGINEERING LTD.

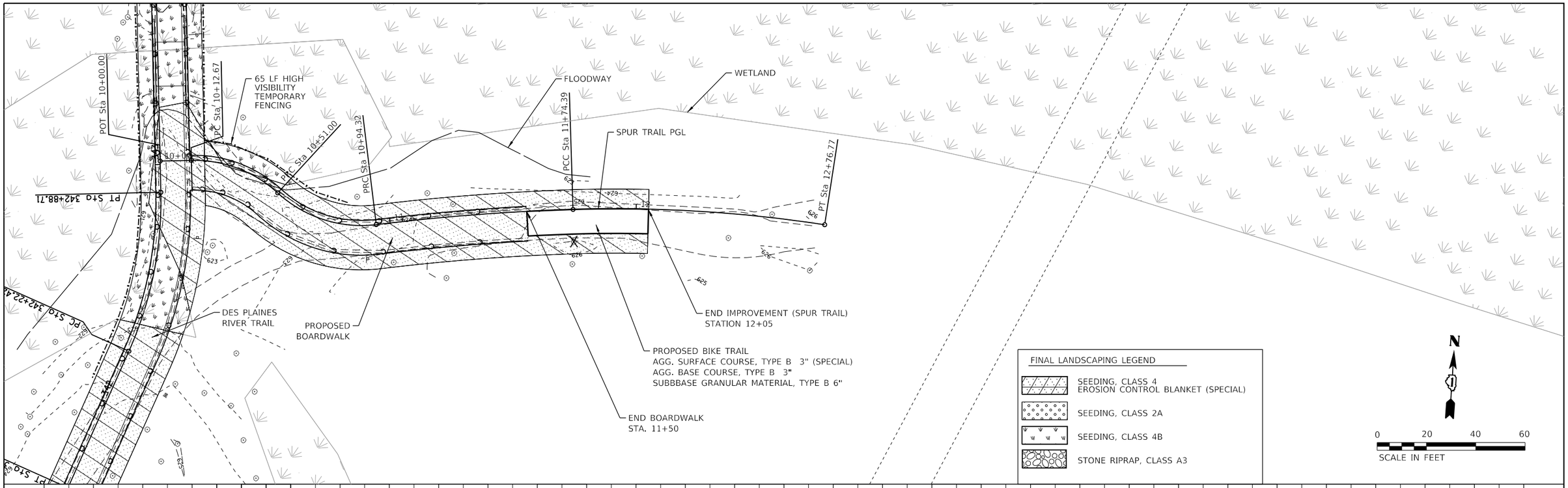
USER NAME = JuanS	DESIGNED -	REVISED -
	DRAWN	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2022	DATE -	REVISED -

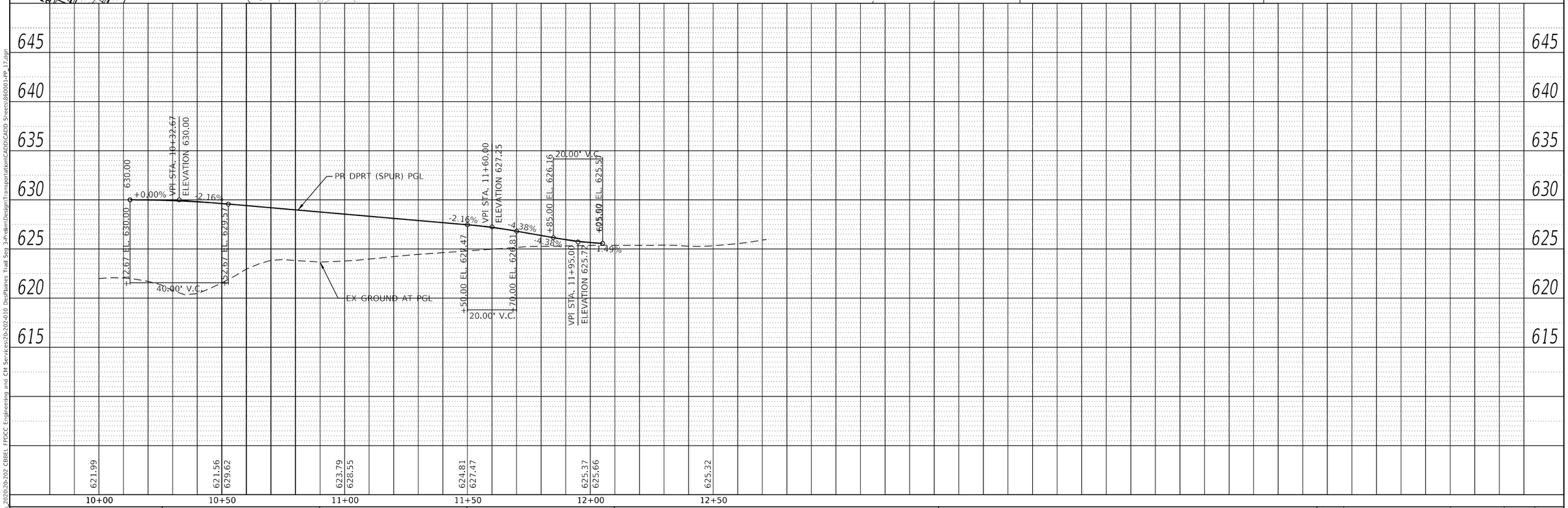
FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 17 OF 18 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	40
		CONTRACT NO.61H87		
		ILLINOIS FED. AID PROJECT		





PLAN: SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

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

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3\Prelim\Design\Transportation\CADD\CADD Sheets\860001-PP_17.dgn

TERRA ENGINEERING LTD.

USER NAME = JuanS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
PLAN AND PROFILE SHEETS

SCALE: 1" = 20' | SHEET 18 OF 18 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	41
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

CONSTRUCTION ACCESS AND STOCKPILING NOTES

1. AFTER CONSTRUCTION IS COMPLETE, THE DRIVEWAY AND PARKING LOT AREA IMPACTED BY CONSTRUCTION SHALL BE RESURFACED WITH HMA SURFACE REMOVAL, 3" AND HMA SURFACE COURSE, IL-9.5, MIX "D", N50 - 3".

2. THE CONTACTOR MUST STAY WITHIN THE LIMITS OF THE ACCESS PATH. ANY DAMAGE BEYOND THE LIMITS OF THE ACCESS PATH SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE.

3. THE ACCESS PATH SHALL BE DELINEATED BY TEMPORARY FENCE. (PAID FOR AS TEMPORARY FENCE).

4. AFTER CONSTRUCTION IS COMPLETE, THE ACCESS PATH SHALL BE RESTORED WITH TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, EROSION CONTROL BLANKET (SPECIAL) AND SEEDING, CLASS 1.

5. THE PARKING LOT SHALL BE CLOSED FOR A MAXIMUM OF 3 DAYS FOR RESURFACING. THE TIMING OF THIS CLOSURE MUST BE APPROVED BY THE FOREST PRESERVE.

6. MATERIAL AND EQUIPMENT STORAGE SHALL NOT TAKE PLACE OUTSIDE THE LIMITS OF THE PARKING LOT RESURFACING AREA SHOWN.

FILE NAME = N:\COOK COUNTY FPD\200048.0010A\Civil\STOCK_200048-TO-10_01.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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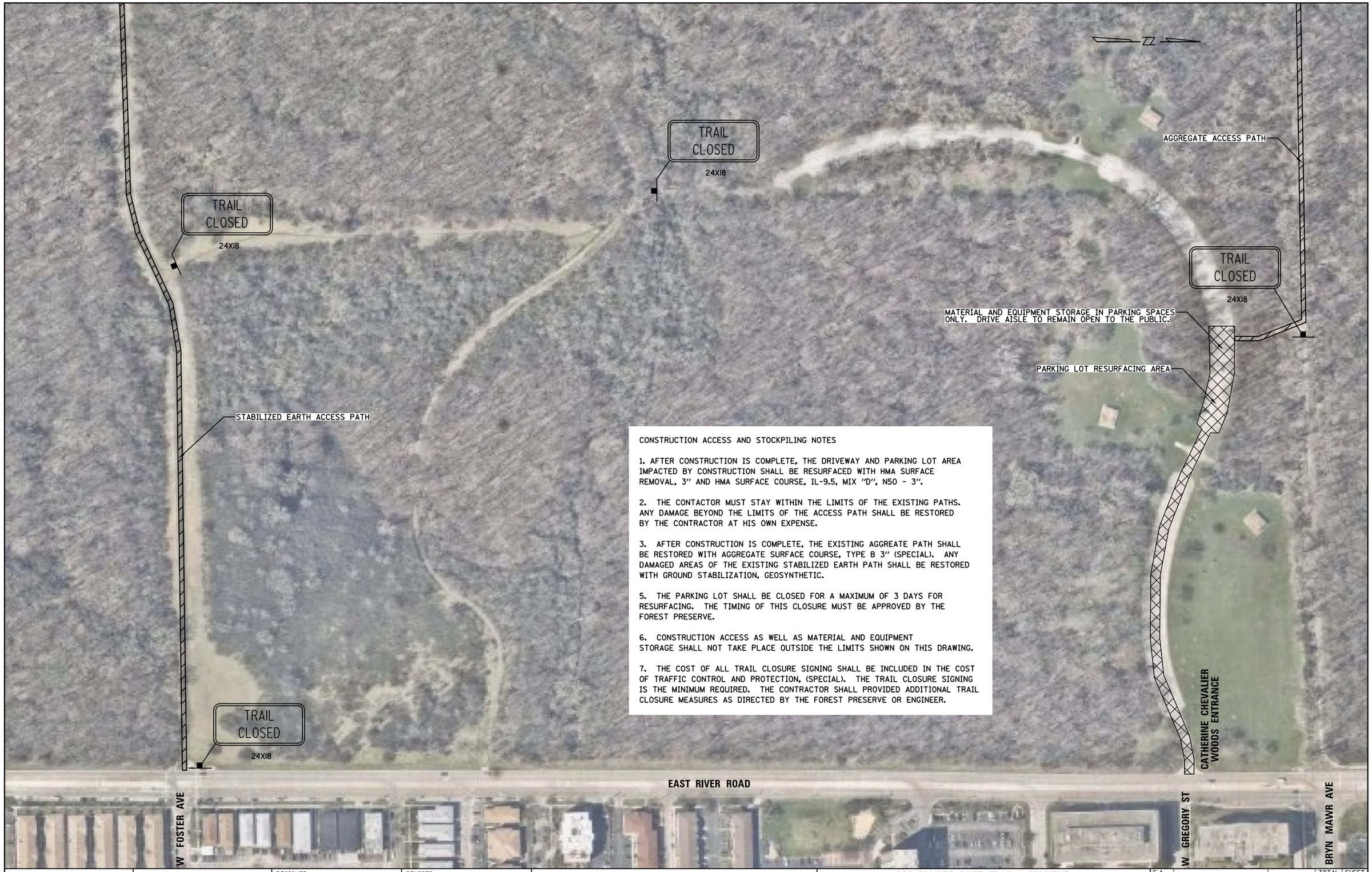
Default	PLOT DATE = 5/23/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
STOCKPILE AND CONSTRUCTION ACCESS (SOUTH)

SCALE: 1:100 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	42
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



CONSTRUCTION ACCESS AND STOCKPILING NOTES

1. AFTER CONSTRUCTION IS COMPLETE, THE DRIVEWAY AND PARKING LOT AREA IMPACTED BY CONSTRUCTION SHALL BE RESURFACED WITH HMA SURFACE REMOVAL, 3" AND HMA SURFACE COURSE, IL-9.5, MIX "D", N50 - 3".

2. THE CONTACTOR MUST STAY WITHIN THE LIMITS OF THE EXISTING PATHS. ANY DAMAGE BEYOND THE LIMITS OF THE ACCESS PATH SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE.

3. AFTER CONSTRUCTION IS COMPLETE, THE EXISTING AGGREATE PATH SHALL BE RESTORED WITH AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL). ANY DAMAGED AREAS OF THE EXISTING STABILIZED EARTH PATH SHALL BE RESTORED WITH GROUND STABILIZATION, GEOSYNTHETIC.

5. THE PARKING LOT SHALL BE CLOSED FOR A MAXIMUM OF 3 DAYS FOR RESURFACING. THE TIMING OF THIS CLOSURE MUST BE APPROVED BY THE FOREST PRESERVE.

6. CONSTRUCTION ACCESS AS WELL AS MATERIAL AND EQUIPMENT STORAGE SHALL NOT TAKE PLACE OUTSIDE THE LIMITS SHOWN ON THIS DRAWING.

7. THE COST OF ALL TRAIL CLOSURE SIGNING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). THE TRAIL CLOSURE SIGNING IS THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDED ADDITIONAL TRAIL CLOSURE MEASURES AS DIRECTED BY THE FOREST PRESERVE OR ENGINEER.

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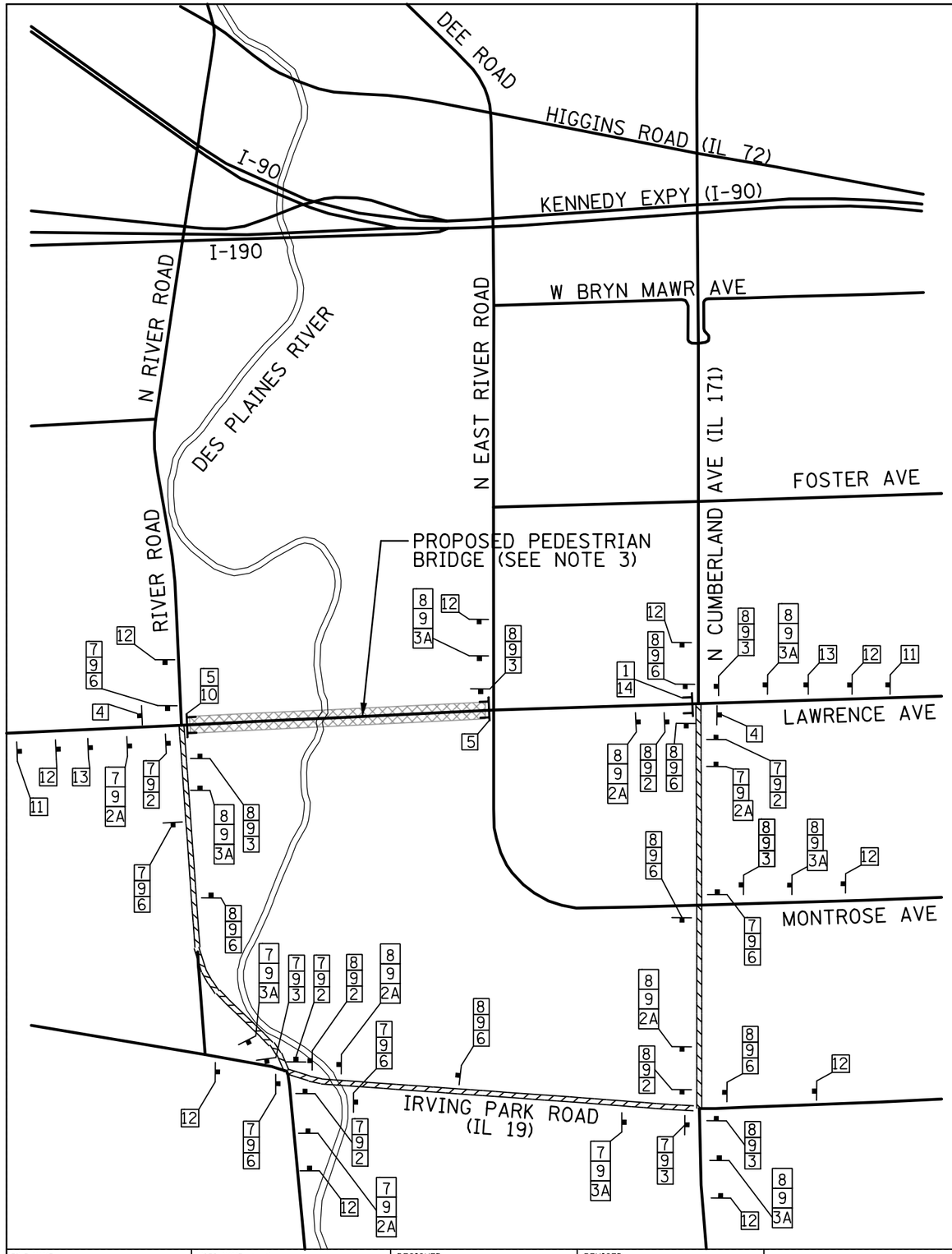
		DRAWN -	REVISED -
	PLOT SCALE = 200'	CHECKED -	REVISED -
	PLOT DATE = 4/22/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
STOCKPILE AND CONSTRUCTION ACCESS (NORTH)

SCALE: 1:200 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	43
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



MAINTENANCE OF TRAFFIC GENERAL NOTES

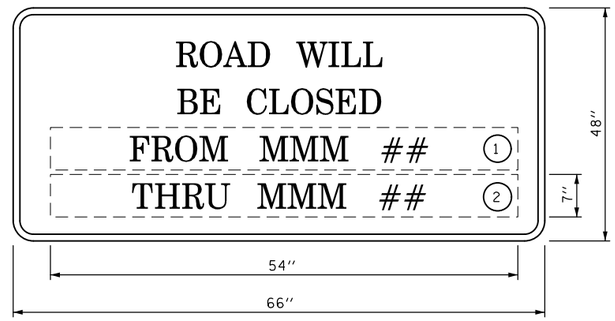
1. ALL SIGNAGE TO BE IN ACCORDANCE WITH MUTCD. SUGGESTED MAINTENANCE OF TRAFFIC SHOWN IS MINIMUM REQUIRED; CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL MEASURES AS DIRECTED BY RESIDENT ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, SPECIAL.

2. THE DETOUR MUST TAKE PLACE ON A WEEKEND (SATURDAY TO SUNDAY) AND SHALL REMAIN IN PLACE FOR A MAXIMUM OF 2 CALENDAR DAYS.

3. SEE DETOUR SIGNAGE PLAN FOR SIGNS TO BE POSTED PRIOR TO FULL ROAD CLOSURE.

4. THE TRAFFIC SIGNALS ON THE DETOUR ROUTE WILL REQUIRE A TIMING ADJUSTMENT DURING THE DETOUR. THIS WORK WILL BE PAID FOR AS TEMPORARY TRAFFIC SIGNAL TIMING. THE FOLLOWING INTERSECTIONS WILL REQUIRE A TEMPORARY ADJUSTMENT:
   LAWRENCE AVE/N. RIVER ROAD
   N. RIVER ROAD/IRVING PARK ROAD
   IRVING PARK ROAD/CUMBERLAND AVE
   MONTROSE AVE/CUMBERLAND AVE
   LAWRENCE AVE/CUMBERLAND AVE
   E. RIVER ROAD/LAWRENCE AVE

DETOUR SIGNAGE



(1) OVERLAY PANEL TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION. (I.E. "FROM APRIL 2")

(2) OVERLAY PANEL TO CONTAIN ENDING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.

SIGNAGE NOTES

A. SIGN SHALL BE 48"X66" AND MADE USING "HIGHWAY C" FONT.

B. USE 6" BLACK LETTERS ON AN ORANGE REFLECTIVE BACKGROUND.

C. SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ONE SIGN ASSEMBLY EQUALS 27.3 SQUARE FEET

D. ERECT SIGN ASSEMBLY (POST MOUNTED) WITH PANELS (1) AND (2) IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE.

SCHEDULE OF SIGNS

SIGN NO.	SIGN TYPE
1	ROAD CLOSED TO THRU TRAFFIC — R-11-4-60X30
2	DETOUR ⇨ — M4-9 R (O) 30X24
2A	DETOUR ⇨ — M4-9 R (O) 30X24
3	DETOUR ⇦ — M4-9 L (O) 30X24
3A	DETOUR ⇦ — M4-9 L (O) 30X24
4	END DETOUR — M4-8A (O) 24X18
5	ROAD CLOSED — R-11-2-48X30
6	DETOUR ⇧ — M4-9 (O) 30X24
7	EAST — M3-2-219 24X12
8	WEST — M3-4-219 24X12
9	LAWRENCE AVE — 8" UC LETTERS 48X18
10	DETOUR — M4-10R 48X18
11	ROAD CLOSED AHEAD — W20-3 48X48
12	DETOUR AHEAD — W20-2 48X48
13	ROAD CLOSED 500 FT — W20-3 48X48
14	DETOUR — M4-10L 48X18

LEGEND

- DETOUR SIGNS. NUMBER DENOTES TYPE.
- TYPE III BARRICADES WITH AMBER FLASHING LIGHTS.
- DETOUR ROUTE
- ROAD CLOSED TO THRU TRAFFIC

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	PLOT SCALE = 13'	DRAWN -	REVISED -
Default	PLOT DATE = 4/22/2022	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
DETOUR PLAN

SCALE: 1:13.3333 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	44
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-Eros_01.dgn

TERRA ENGINEERING LTD.

USER NAME = JuanS	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/24/2022	DATE -	REVISED -	

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	45
		CONTRACT NO.61H87		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
- INLET FILTER
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A3

N

0 20 40 60
SCALE IN FEET

MATCHLINE STA. 306+00

PT Sta 306+21.72

PC Sta 306+85.91

PT Sta 307+09.48

PERIMETER EROSION BARRIER

DES PLAINES
RIVER TRAIL PGL

MATCHLINE STA. 312+00

PC Sta 40+16.18

10'

306 307 308 309 310+00 311

632 631

MATCHLINE STA. 312+00

PC Sta 312+14.82

PT Sta 313+31.68

PC Sta 313+88.36

PRC Sta 314+10.47

PRC Sta 314+76.80

PT Sta 314+98.92

DES PLAINES
RIVER TRAIL PGL

313 314 315 316+00 317

PERIMETER EROSION BARRIER

MATCHLINE STA. 318+00

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: MS_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\860001-Eros_02.dgn

TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	46
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

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

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

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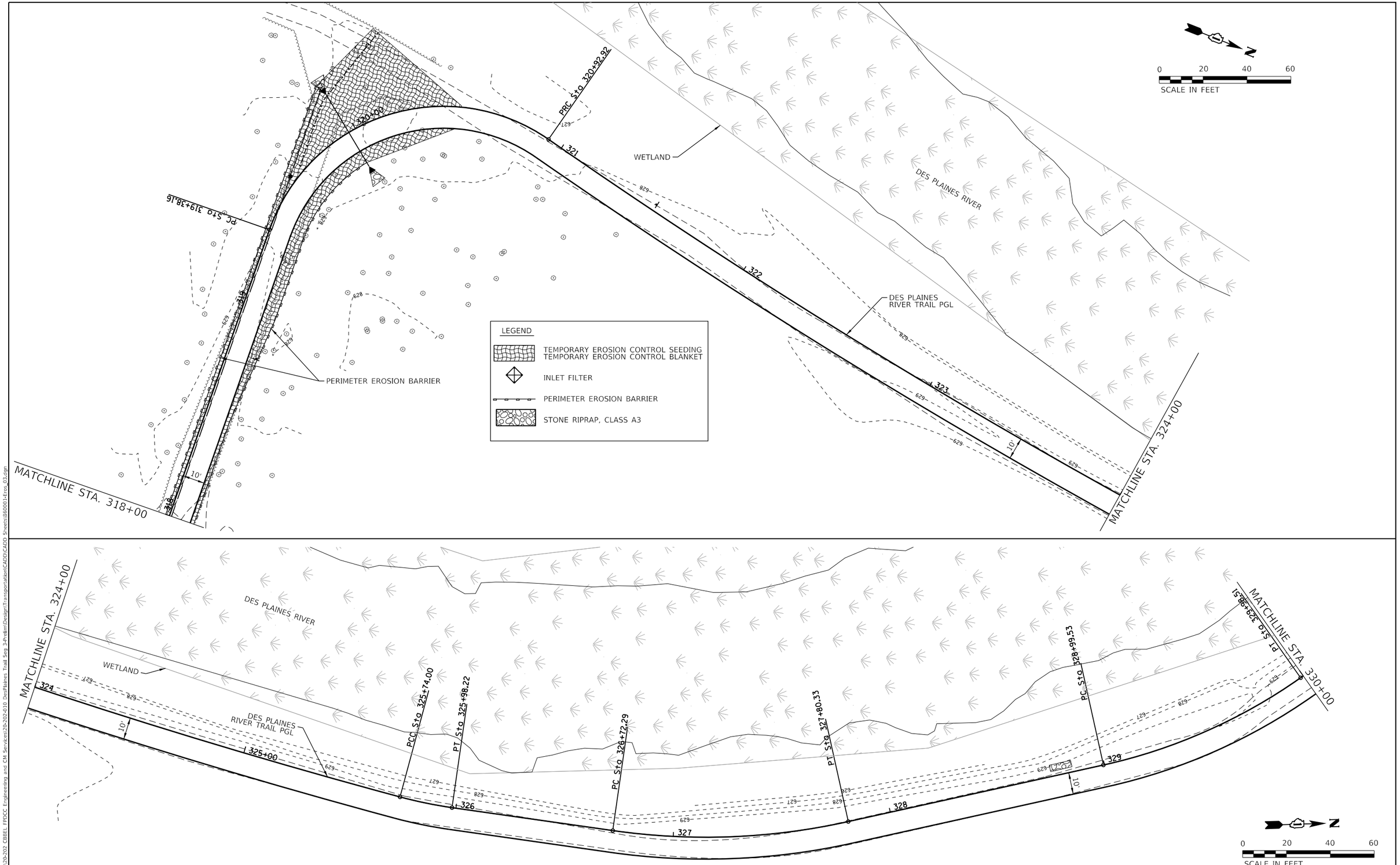

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		DRAWN -	REVISED -
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	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET 3 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	47
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

LEGEND

- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
- INLET FILTER
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A3

DES PLAINES RIVER

MATCHLINE STA. 330+00

330+00

331

332

333

334

336+00

PC Sta 331+97.22

PRC Sta 332+35.96

PT Sta 332+74.70

PC Sta 334+42.35

PRC Sta 335+18.81

DES PLAINES RIVER TRAIL-PGL

PERIMETER EROSION BARRIER (DOUBLE ROW)

WETLAND

PERIMETER EROSION BARRIER

WASHOUT BASIN

MATCHLINE STA. 336+00

10'

0 20 40 60

SCALE IN FEET

N

WETLAND

PT Sta 337+17.82

PC Sta 338+09.52

PT Sta 339+41.89

PRC Sta 336+18.82

MATCHLINE STA. 336+00

335

337

338

339

340+00

341

PC Sta 341+08.59

PT Sta 341+54.76

MATCHLINE STA. 342+00

WETLAND

PROPOSED BOARDWALK

PERIMETER EROSION BARRIER
(DOUBLE ROW, LEFT, STA 338+00 TO 342+00
DOUBLE ROW, RIGHT, STA 339+50 TO 342+00)

BEGIN BOARDWALK
STA. 336+00

DES PLAINES RIVER TRAIL PGL

WETLAND

0 20 40 60

SCALE IN FEET

N

MODEL: Default
FILE NAME: MS: 2020-20-202 CBBEL FPDCC Engineering and CM Services\20-2020 Des Plaines Trail Segment 3\Preliminary Design\Transportation\CADD\CADD Sheets\860001-Eros_04.dgn

TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	48
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

MATCHLINE STA. 342+00

PC Sta 342+22.42

PT Sta 342+88.71

PC Sta 342+00.00

PC Sta 10+12.67

PC Sta 10+32.83

PC Sta 10+51.00

PRC Sta 10+74.12

PRC Sta 10+94.32

WETLAND

PI Sta 11+34.38

PCC Sta 11+74.39

PERIMETER EROSION BARRIER
(DOUBLE ROW, LEFT, STA 342+00 TO 345+50
DOUBLE ROW, RIGHT, STA 342+00 TO 345+50)

PC Sta 344+76.45

WETLAND

DES PLAINES
RIVER TRAIL PGL

PRC Sta 346+50.03

PT Sta 347+17.03

PC Sta 347+58.18

PERIMETER EROSION BARRIER

MATCHLINE
STA. 348+00

WETLAND

PROPOSED
BOARDWALK

END BOARDWALK
STA. 346+50

N

0 20 40 60
SCALE IN FEET

PC Sta 348+59.69

PT Sta 348+11.84

MATCHLINE STA. 348+00

PERIMETER
EROSION
BARRIER

PT Sta 349+37.86

PC Sta 349+76.36

WETLAND

PT Sta 351+51.12

DES PLAINES RIVER TRAIL PGL

WETLAND

WETLAND

MATCHLINE STA. 354+00

N

0 20 40 60
SCALE IN FEET

LEGEND

- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
- INLET FILTER
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A3

MODEL: Default
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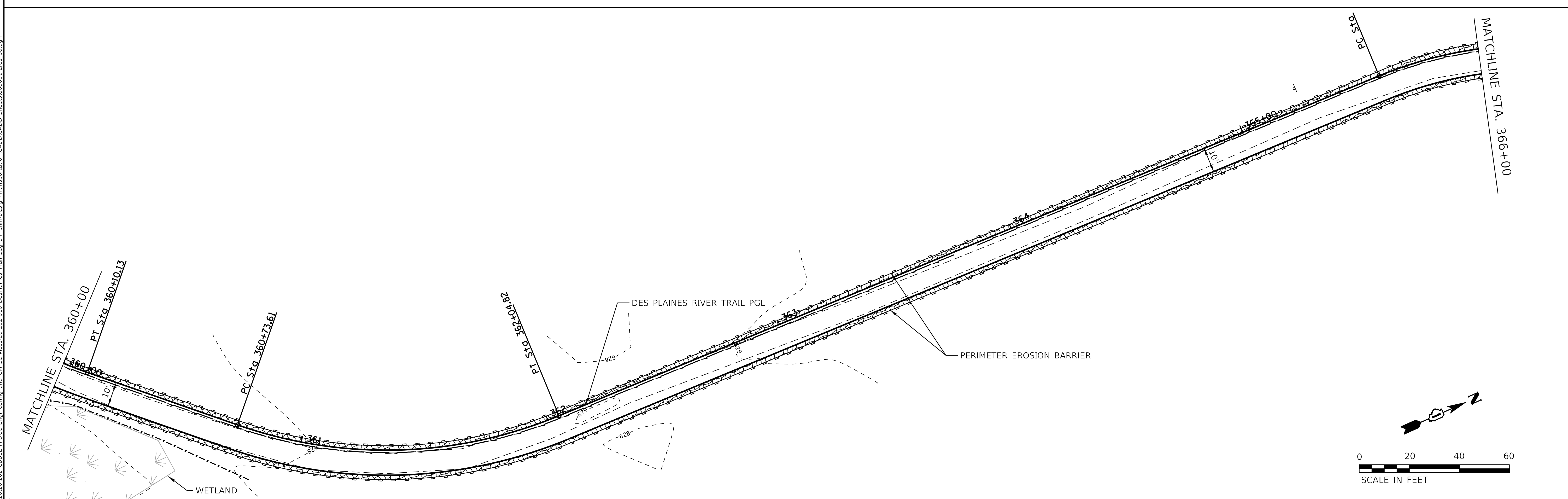
	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET 05 OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	49
		CONTRACT NO.61H87		
	ILLINOIS	FED. AID PROJECT		



TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -	FOREST PRESERVE DISTRICT OF COOK COUNTY	DES PLAINES RIVER TRAIL SEGMENT 3 EROSION AND SEDIMENT CONTROL
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 5/24/2022	DATE -	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	50
		CONTRACT NO.61H87		
	ILLINOIS	FED. AID PROJECT		

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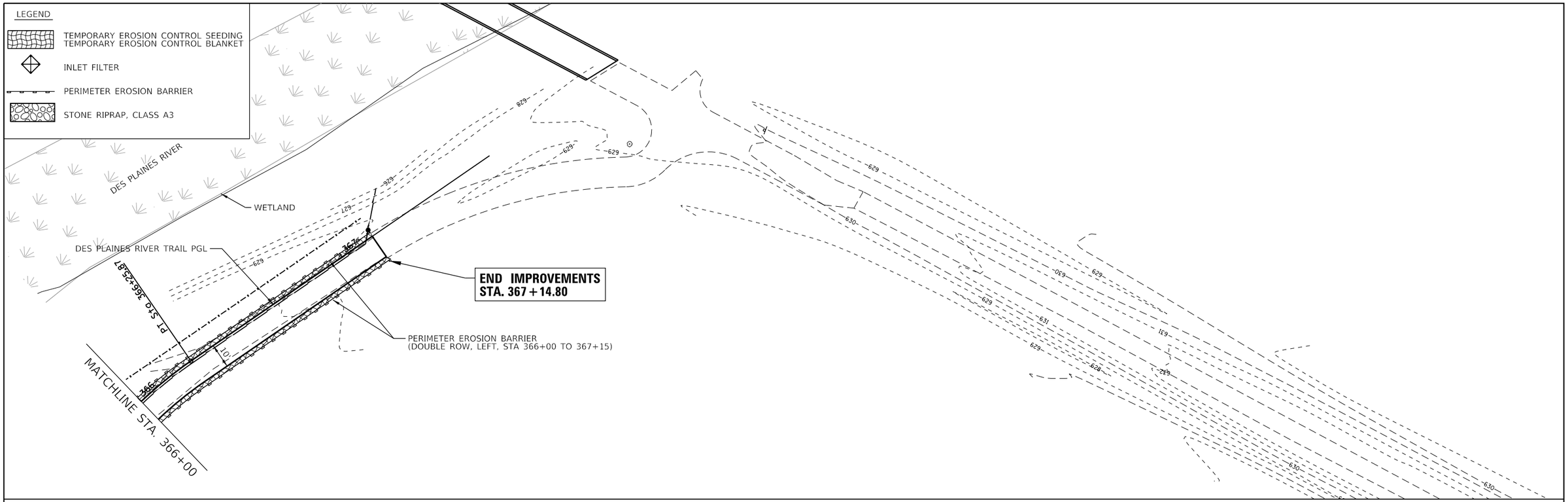

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		DRAWN -	REVISED -
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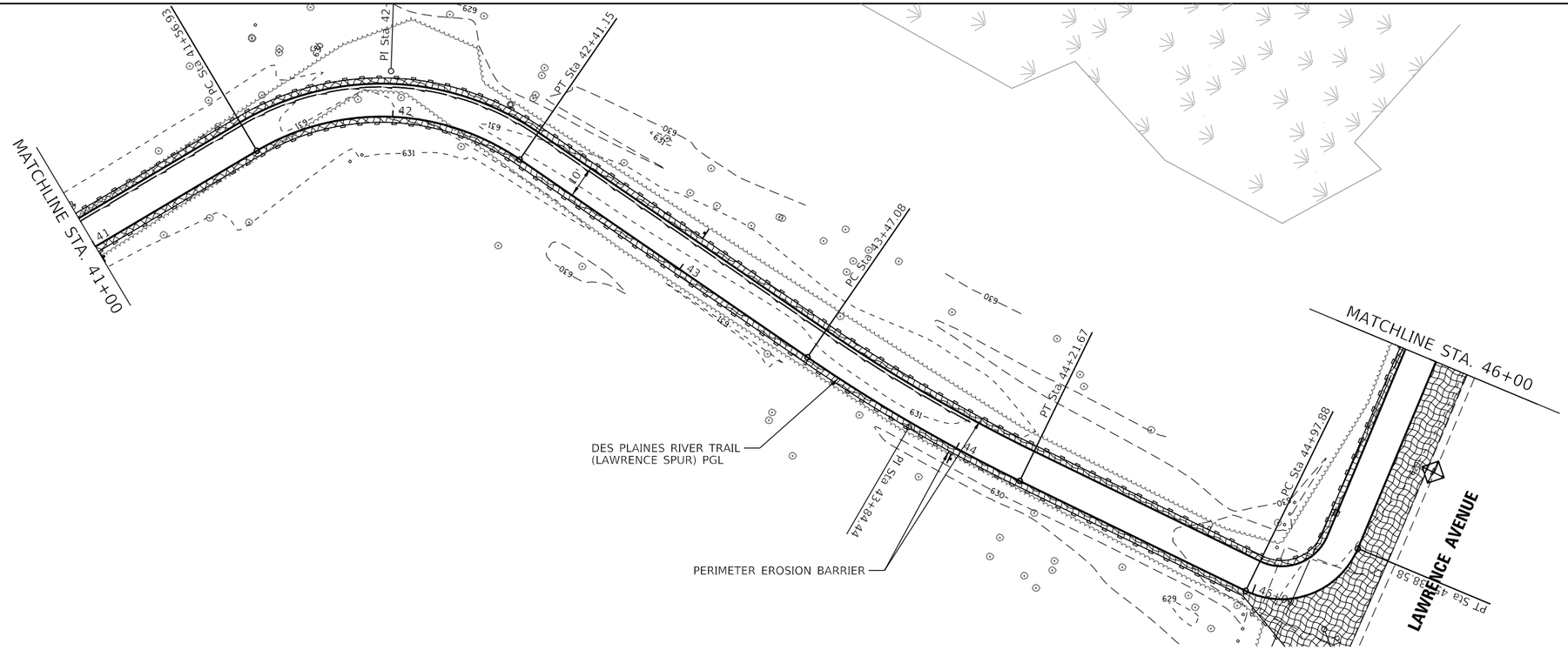
	PLOT DATE = 5/24/2022	DATE -	REVISED -

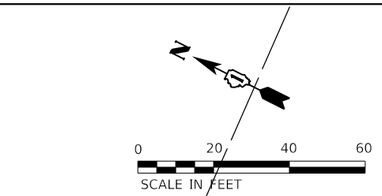
FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET OF 7 SHEETS | STA. | TO STA.

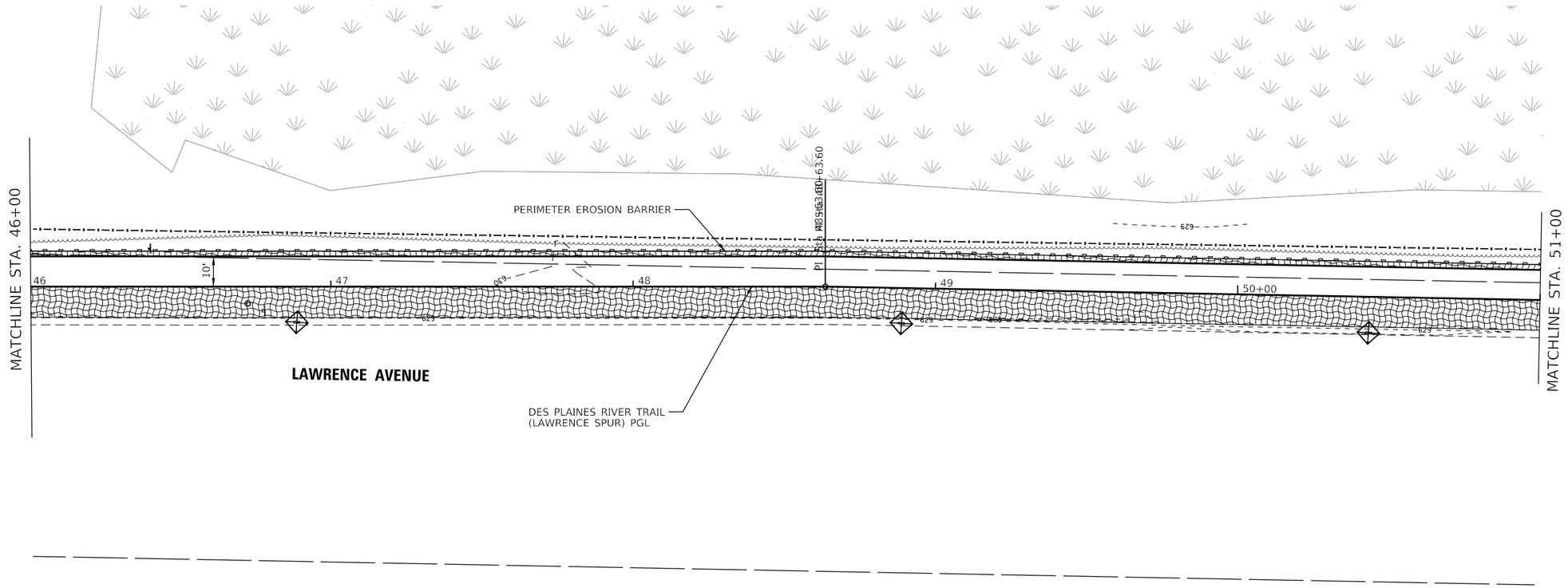
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	51
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

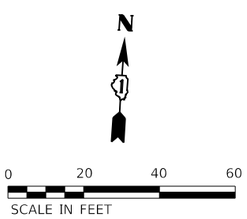




LEGEND

- TEMPORARY EROSION CONTROL SEEDING
  TEMPORARY EROSION CONTROL BLANKET
- INLET FILTER
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A3





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TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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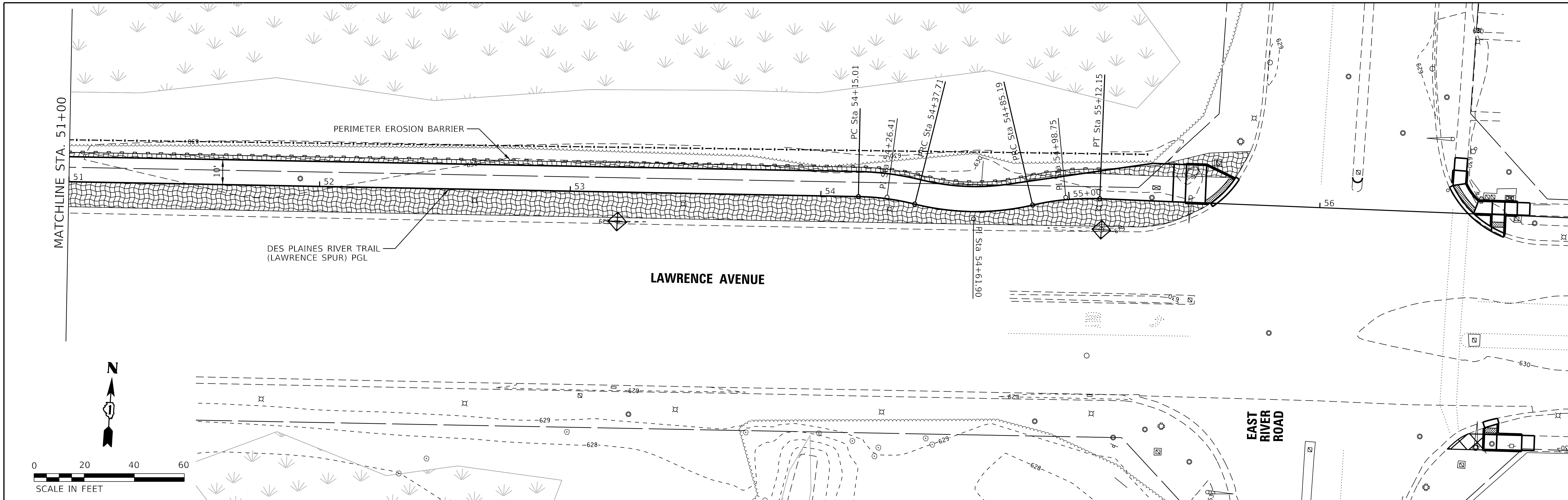
	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	52
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			



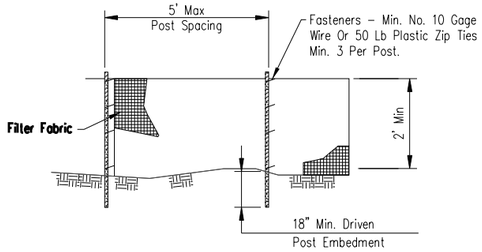
LEGEND

- TEMPORARY EROSION CONTROL SEEDING / TEMPORARY EROSION CONTROL BLANKET
- INLET FILTER
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A3

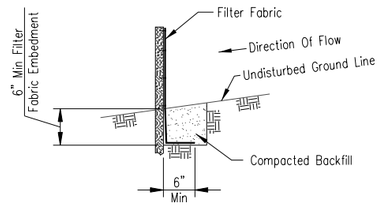
MODEL: Default
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\8600001-Eros 09.dgn

TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -	FOREST PRESERVE DISTRICT OF COOK COUNTY	DES PLAINES RIVER TRAIL SEGMENT 3 EROSION AND SEDIMENT CONTROL
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 5/24/2022	DATE -	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	53
		CONTRACT NO.61H87		
		ILLINOIS FED. AID PROJECT		

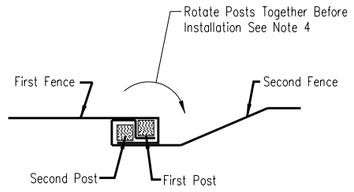


ELEVATION



FABRIC ANCHOR DETAIL

NOTES:
1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either wood post with a minimum cross-sectional area of 1.5" X 1.5" or a standard steel post.
4. When splices are necessary make splice at post according to splice detail. Place the end post of the second fence inside the end post of the first fence. Rotate both posts together at least 180 degrees to create a tight seal with the fabric material. Cut the fabric near the bottom of the posts to accommodate the 6 inch flap. Then drive both posts and bury the flap. Compact backfill well.



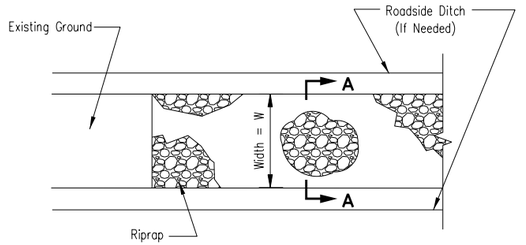
SPLICE DETAIL–PLAN VIEW

Date 8/1/14
Designed M. QUINONES
Drawn
Checked
Approved

SILT FENCE

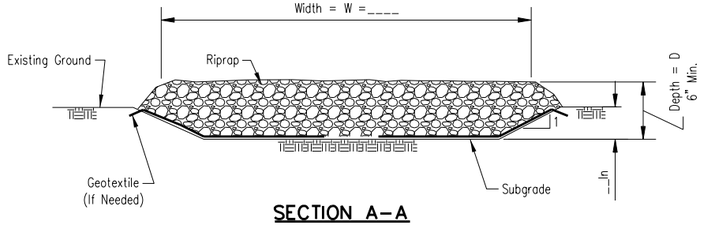
United States Department of Agriculture
Natural Resources Conservation Service

File No. IL-ENG-49
Drawing No.
Page 1 of 1
Sheet of



PLAN VIEW

NOTES:
1. Rock shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
2. See plans for construction road location, D and W dimensions.
3. Minimum width is 14 feet for one-way traffic and 20 feet for two-way traffic. Two-way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
4. Roadway shall follow the contour of the natural terrain to the extent possible.
5. Geotextile (non-woven, needle punched) min. criteria:
   Grab Tensile strength (lb) ASTM D 4632_____202
   Elongation at failure (%) ASTM D 4632_____≥50
   Trapezoidal tear strength (lb) ASTM D 4533_____79
   Puncture strength (lb) ASTM D 6241 _____433
   Ultraviolet light (% retained strength) ASTM 4355_____min 50
   Apparent opening size (AOS) ASTM D 4751____
   max 0.22 mm (US sieve size 70)
   Permittivity sec^{-1}/ ASTM D 4491_____min 0.70
6. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.



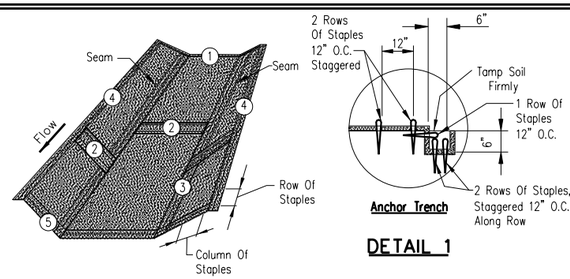
SECTION A–A

Date 10/1/15
Designed M. QUINONES
Drawn
Checked
Approved

CONSTRUCTION ROAD STABILIZATION

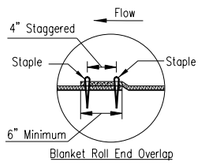
United States Department of Agriculture
Natural Resources Conservation Service

File No. IL-ENG-58
Drawing No.
Page 1 of 1
Sheet of



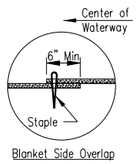
Anchor Trench

DETAIL 1



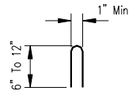
Blanket Roll End Overlap

DETAIL 2



Blanket Side Overlap

DETAIL 3

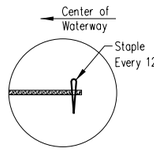


STAPLE DETAIL

Waterway #			
Waterway Width (ft)			
ECB Width (ft)			
Length (ft)			
Stations	_____ to _____	_____ to _____	_____ to _____

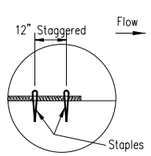
NOTES:
1. The erosion control blanket consists of a machine produced mat of specified material. The product must meet the minimum requirements specified in Table 1, below. Ensure that the product is new and unused, and is furnished in rolls. Alternative materials may be used upon approval by the designer.
2. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
3. The erosion control blanket is to be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket can not be stretched.
4. Install the erosion control blanket according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
   a. Use "U" shaped staples, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
   b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
   c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
   d. Overlap blankets on side slopes a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
   e. Staple the outer edge along sides of the blanket every 12 inches. See Detail 4.
   f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
   g. Downstream (terminal) end of blanket are to be stapled with a double row of staggered staples 12 inches apart. See Detail 5.
5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. No overlap of blankets at the center of the waterway.

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET			
(See Note 1)	Coconut Blanket	Wood Fiber Blanket	
Type of Fiber	100% coconut fibers	100% curled wood fibers	
Weight, lbs/sq. yd.	0.50	0.63	
Life Expectancy			
Fiber Length	N/A	80% of fibers > 6 in.	
Fiber Dimensions	N/A	0.021 in. x 0.042 in.	
Netting Netting Required ? ☐ Yes ☐ No	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers.	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting	



Blanket Side Edge

DETAIL 4



Terminal End

DETAIL 5

Not To Scale

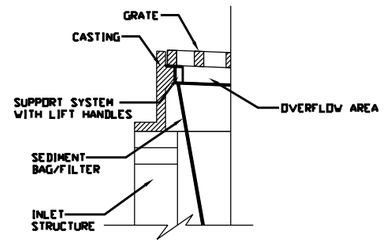
Date 7/1/15
Designed M. QUINONES
Drawn
Checked
Approved

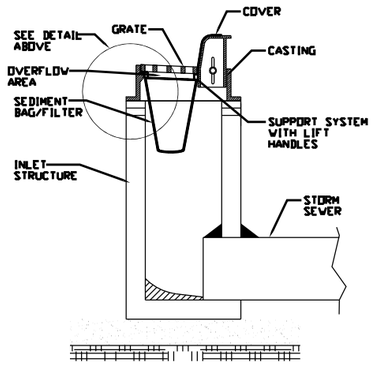
EROSION CONTROL BLANKET INSTALLATION DETAILS

United States Department of Agriculture
Natural Resources Conservation Service

File No. IL ENG-61
Drawing No.
Page 1 of 1
Sheet of

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION





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

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

TERRA ENGINEERING LTD.

USER NAME = JuanS	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/24/2022	DATE -	REVISED -	

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
EROSION AND SEDIMENT CONTROL DETAILS

SCALE: N.T.S. | SHEET 10 OF 10 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	54
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CAD FILE NAME, NOTE BOOK, NO.____, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NO.____, BY, DATE

MODEL: Default
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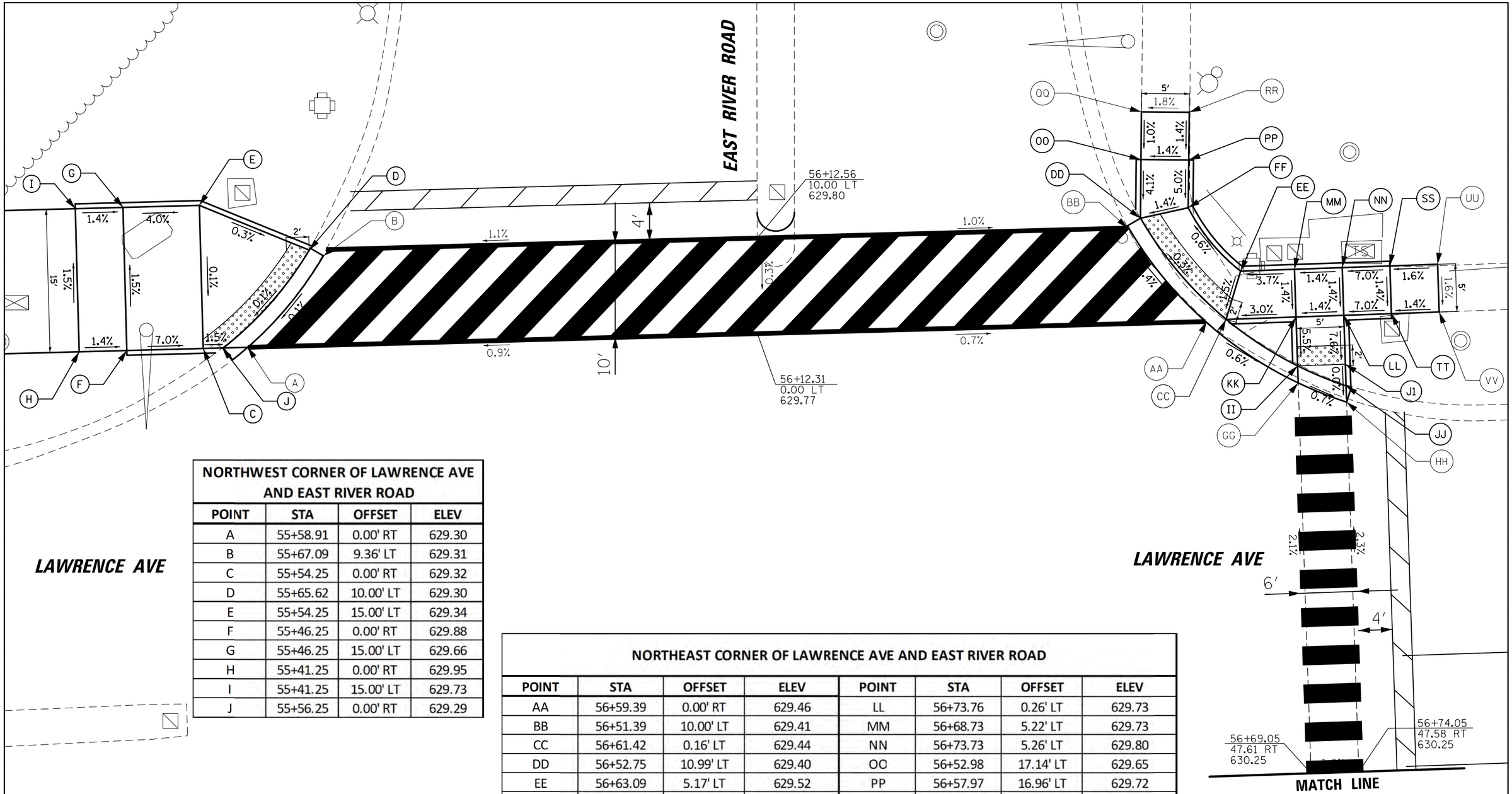

NORTHWEST CORNER OF LAWRENCE AVE AND EAST RIVER ROAD			
POINT	STA	OFFSET	ELEV
A	55+58.91	0.00' RT	629.30
B	55+67.09	9.36' LT	629.31
C	55+54.25	0.00' RT	629.32
D	55+65.62	10.00' LT	629.30
E	55+54.25	15.00' LT	629.34
F	55+46.25	0.00' RT	629.88
G	55+46.25	15.00' LT	629.66
H	55+41.25	0.00' RT	629.95
I	55+41.25	15.00' LT	629.73
J	55+56.25	0.00' RT	629.29

NORTHEAST CORNER OF LAWRENCE AVE AND EAST RIVER ROAD							
POINT	STA	OFFSET	ELEV	POINT	STA	OFFSET	ELEV
AA	56+59.39	0.00' RT	629.46	LL	56+73.76	0.26' LT	629.73
BB	56+51.39	10.00' LT	629.41	MM	56+68.73	5.22' LT	629.73
CC	56+61.42	0.16' LT	629.44	NN	56+73.73	5.26' LT	629.80
DD	56+52.75	10.99' LT	629.40	OO	56+52.98	17.14' LT	629.65
EE	56+63.09	5.17' LT	629.52	PP	56+57.97	16.96' LT	629.72
FF	56+57.79	11.96' LT	629.47	QQ	56+53.15	22.14' LT	629.70
GG	56+68.80	6.69' RT	629.39	RR	56+58.16	21.96' LT	629.79
HH	56+73.82	8.83' RT	629.35	SS	56+78.73	5.30' LT	630.15
II	56+68.79	4.90' RT	629.38	TT	56+78.76	0.30' LT	630.08
JJ	56+73.81	7.14' RT	629.34	UU	56+83.73	5.34' LT	630.23
J1	56+73.79	4.87' RT	629.34	VV	56+83.76	0.34' LT	630.15
KK	56+68.76	0.22' LT	629.66				

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		DRAWN -	REVISED -
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Default	PLOT DATE = 4/22/2022	DATE -	REVISED -

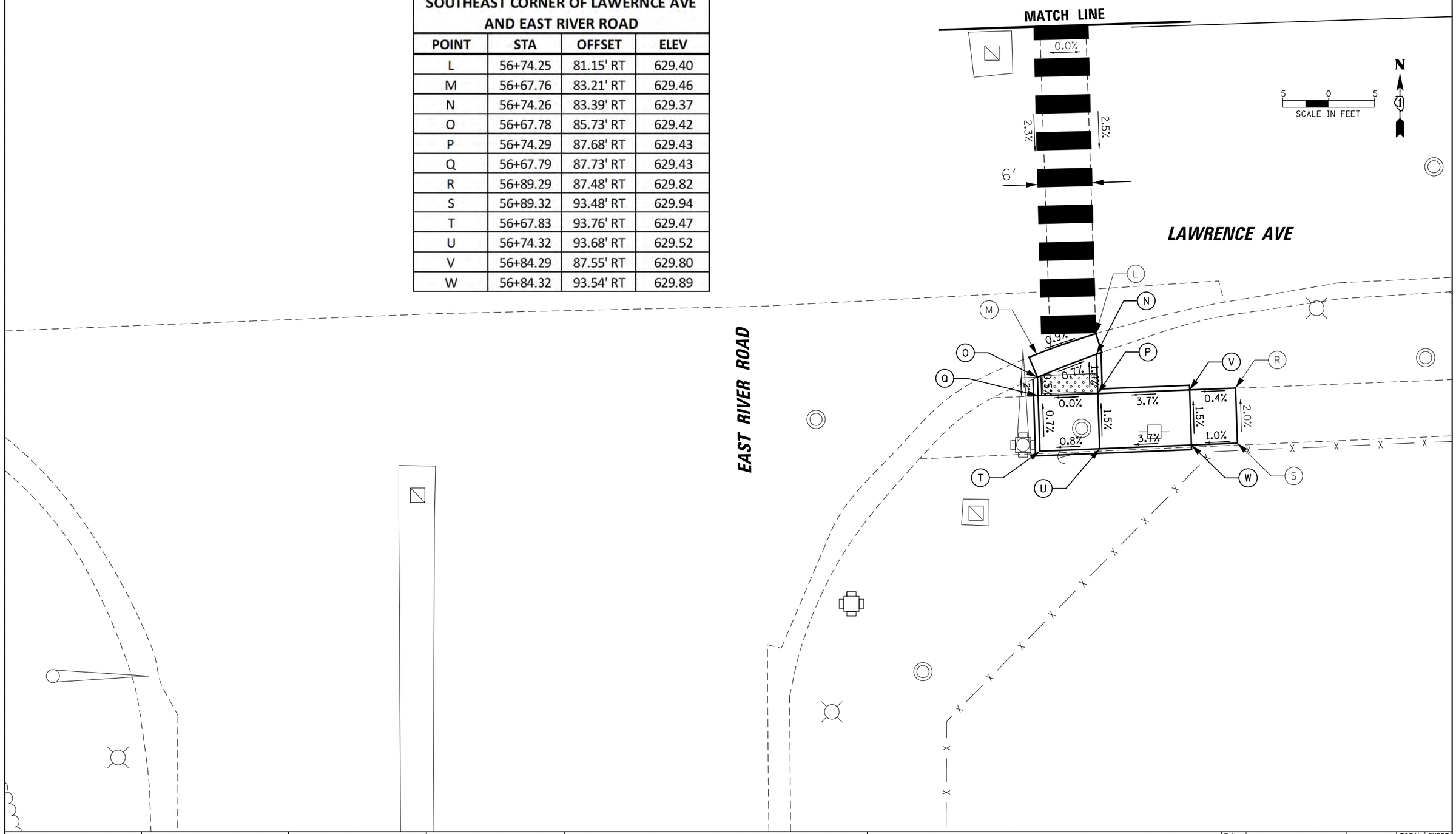
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ADA GRADING DETAILS

SCALE: 1:10 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	55
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

SOUTHEAST CORNER OF LAWERNCE AVE AND EAST RIVER ROAD			
POINT	STA	OFFSET	ELEV
L	56+74.25	81.15' RT	629.40
M	56+67.76	83.21' RT	629.46
N	56+74.26	83.39' RT	629.37
O	56+67.78	85.73' RT	629.42
P	56+74.29	87.68' RT	629.43
Q	56+67.79	87.73' RT	629.43
R	56+89.29	87.48' RT	629.82
S	56+89.32	93.48' RT	629.94
T	56+67.83	93.76' RT	629.47
U	56+74.32	93.68' RT	629.52
V	56+84.29	87.55' RT	629.80
W	56+84.32	93.54' RT	629.89



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		DRAWN -	REVISED -
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	PLOT DATE = 5/23/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
ADA GRADING DETAILS

SCALE: 1:10 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	56
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RR	RR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1*6	1*6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	6*18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

FILE NAME = ts05.dgn	USER NAME = leysa	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
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4/22/2022	PLOT DATE = 9/29/2016	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	57
	TS-05	CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

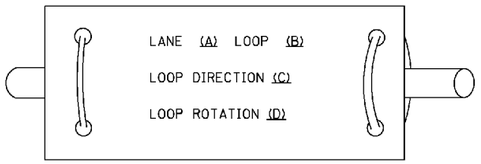
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

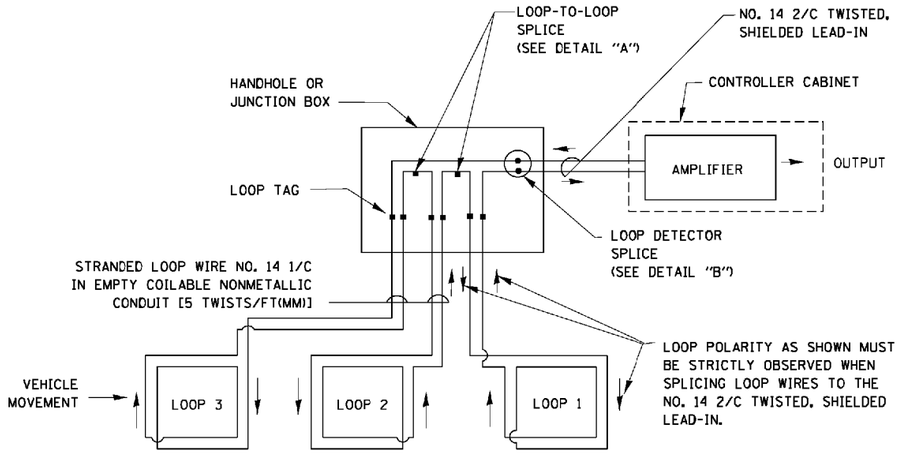


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

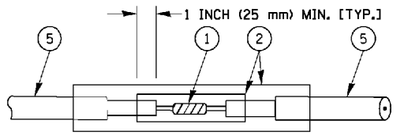
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

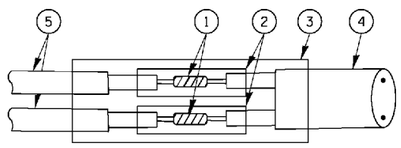


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

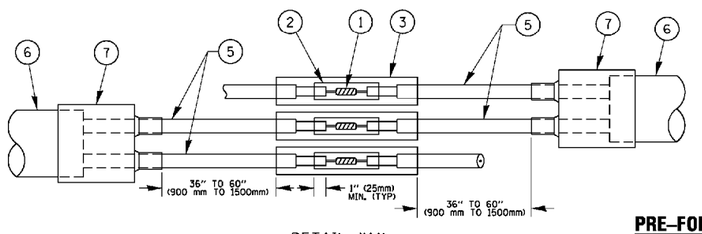


DETAIL "A"
LOOP-TO-LOOP SPLICE



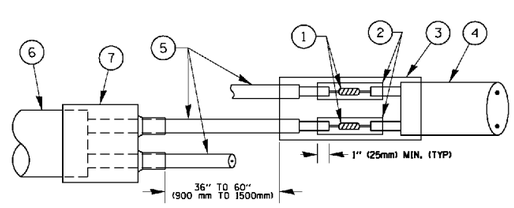
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

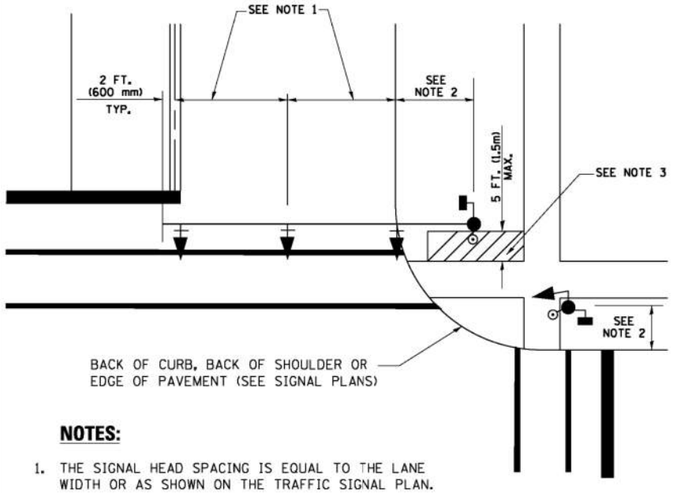
SCALE: NONE | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	58
	TS-05	CONTRACT NO. 61H87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

bgunnells
4/22/2022

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

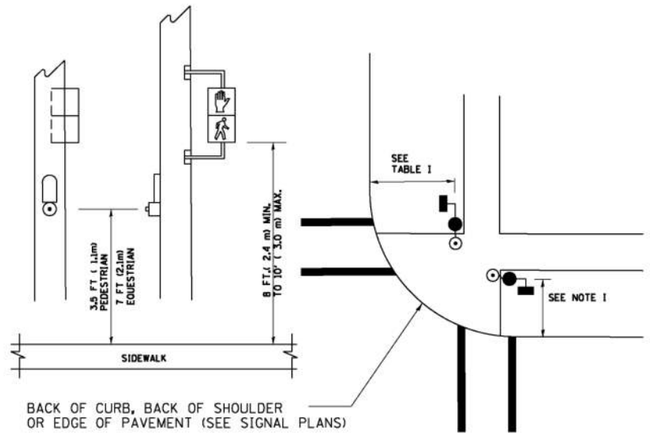
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

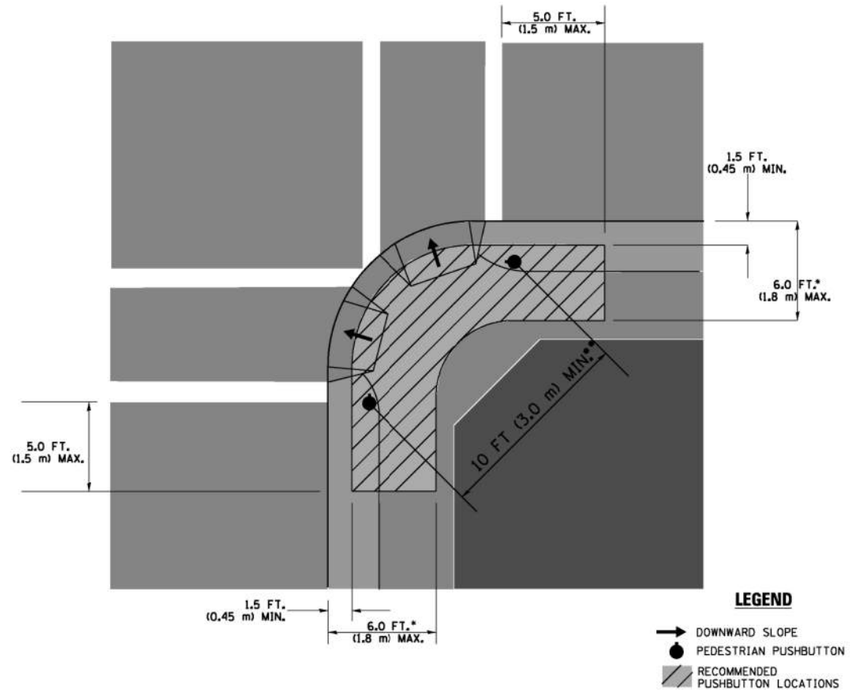
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	59
	TS-05	CONTRACT NO. 61H87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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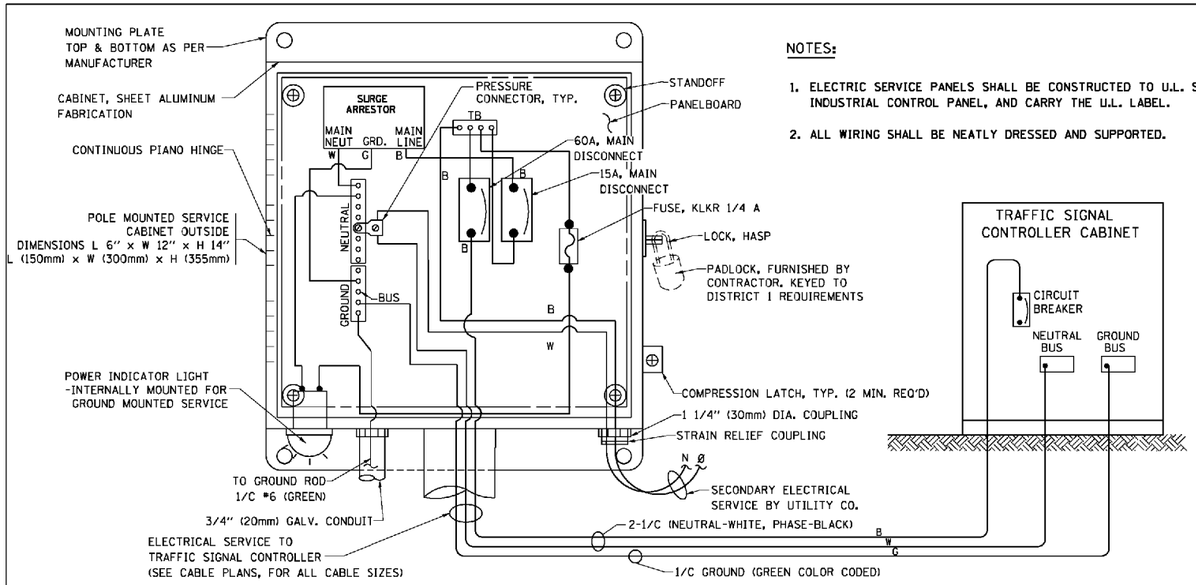
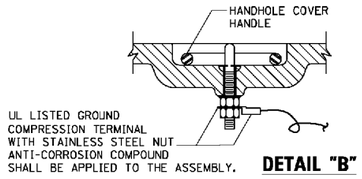


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

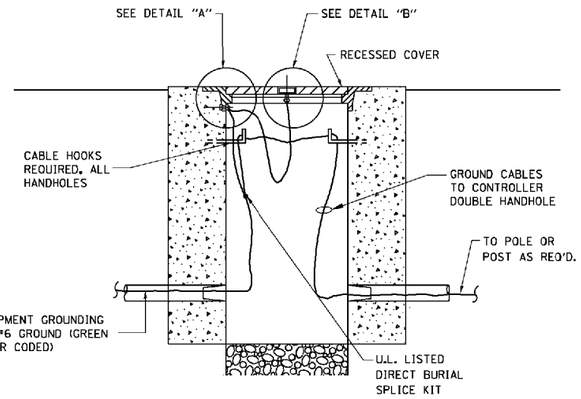
DETAIL "A"



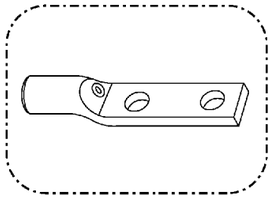
DETAIL "B"

NOTES:
GROUNDING SYSTEM

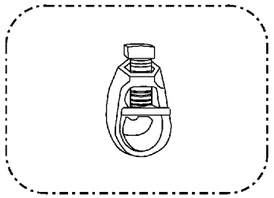
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



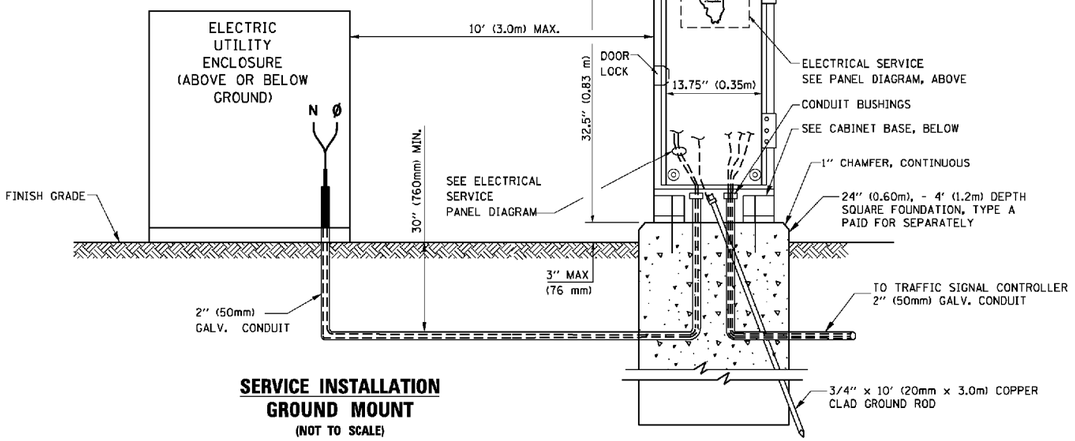
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



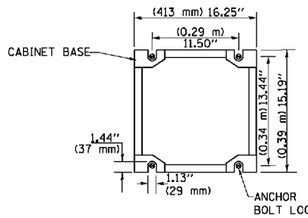
3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

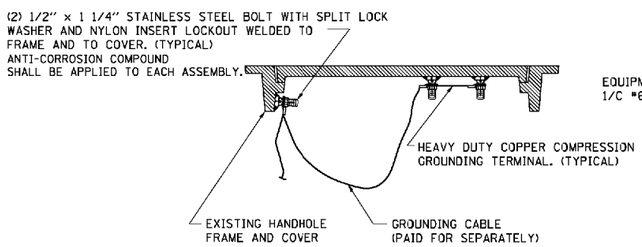
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



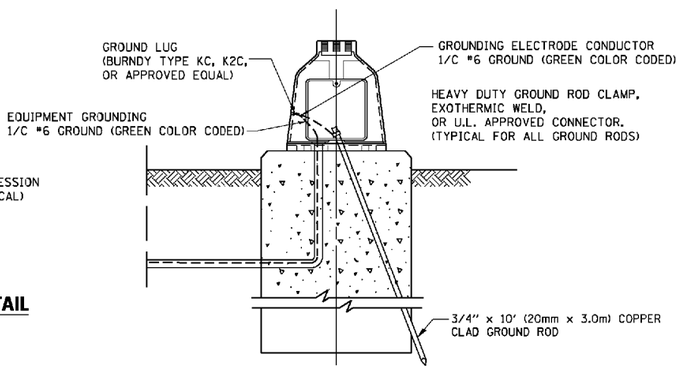
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL
(NOT TO SCALE)

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		DRAWN - BCK	REVISED -				17-00034-03-BT	COOK	129	60
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -				TS-05	CONTRACT NO. 61H87		
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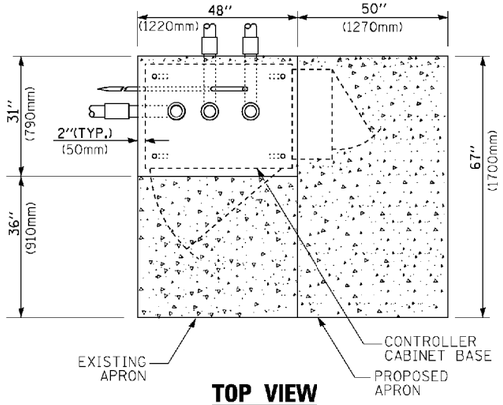
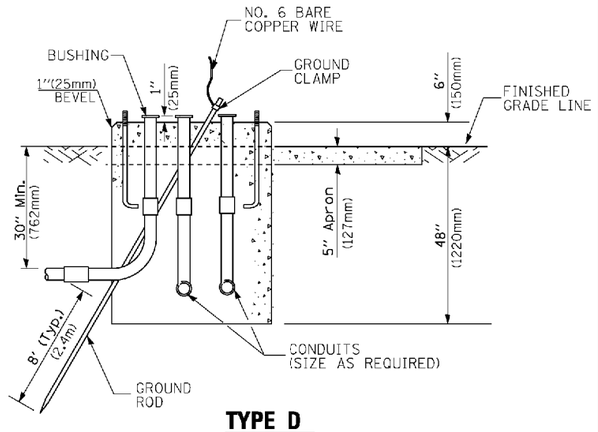
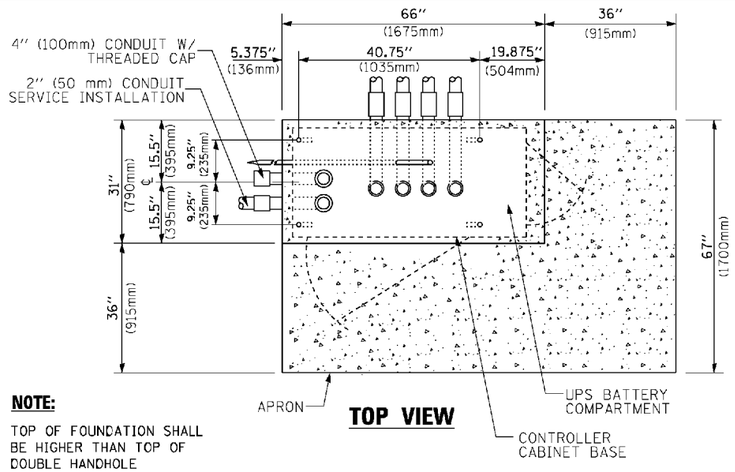


TOP VIEW



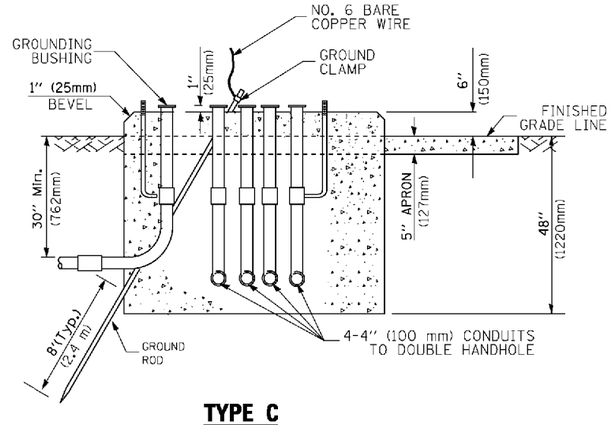
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



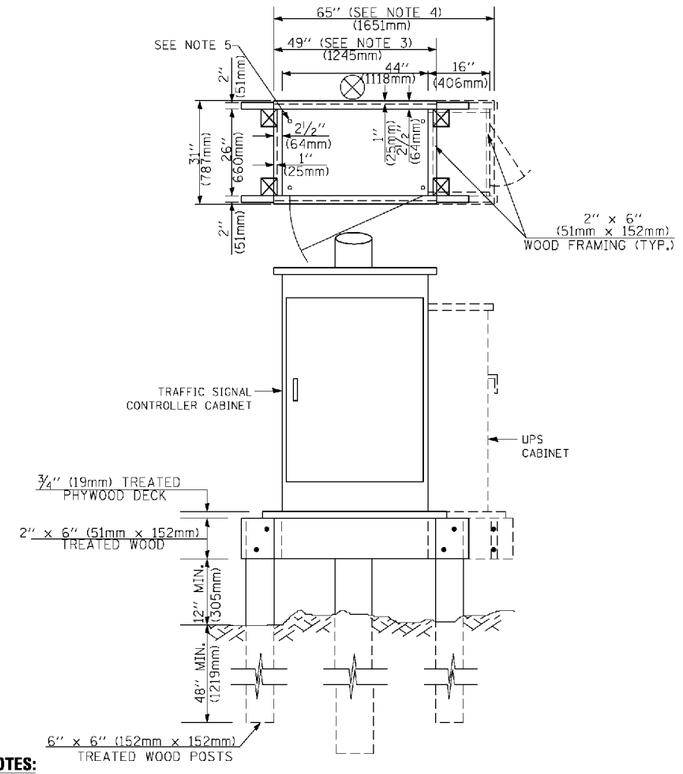
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	

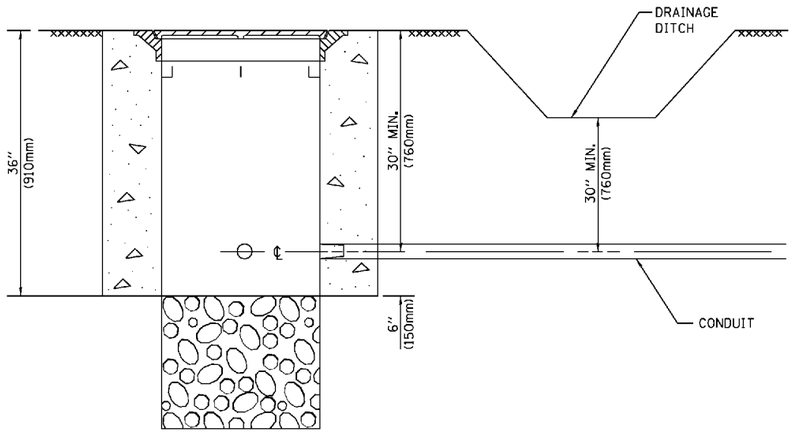
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	61
	TS-05	CONTRACT NO. 61H87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

dgunnells
4/22/2022

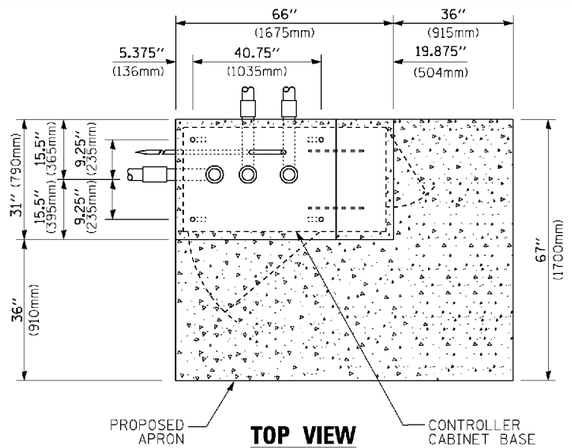


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

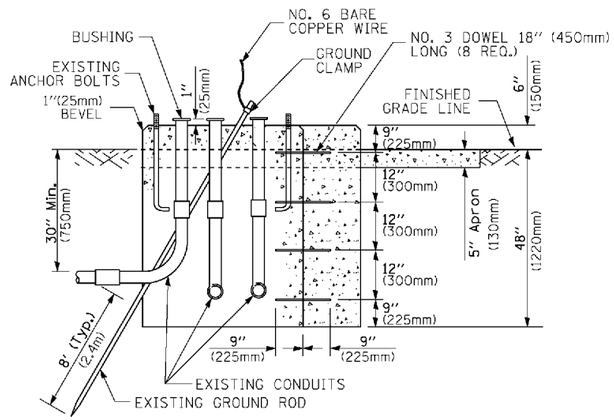
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



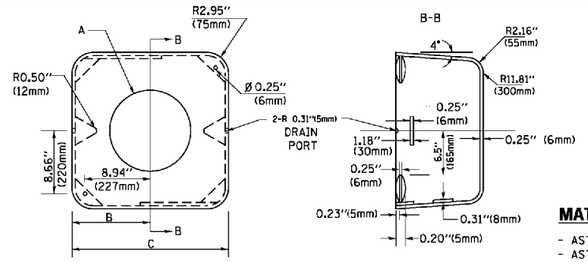
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

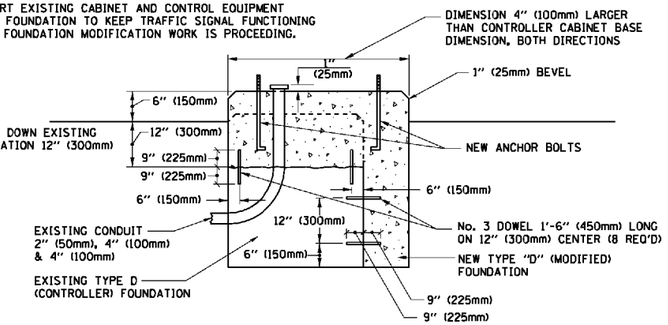
SHROUD

NOTES:

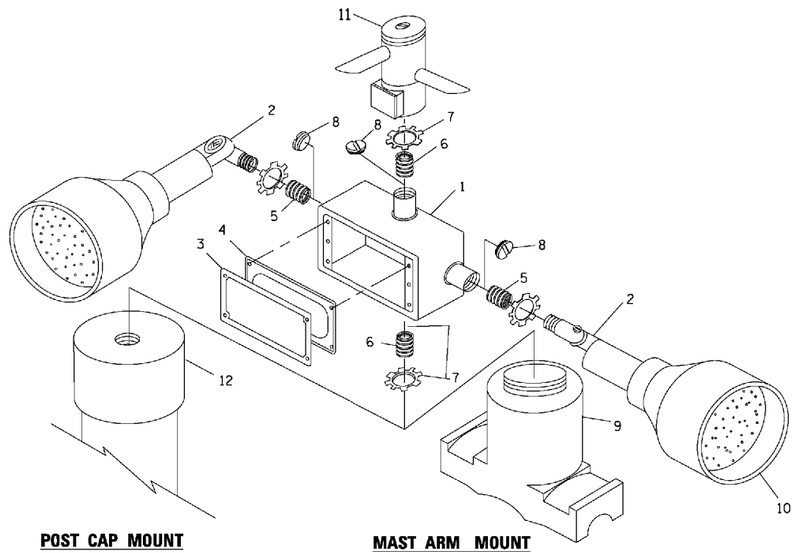
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



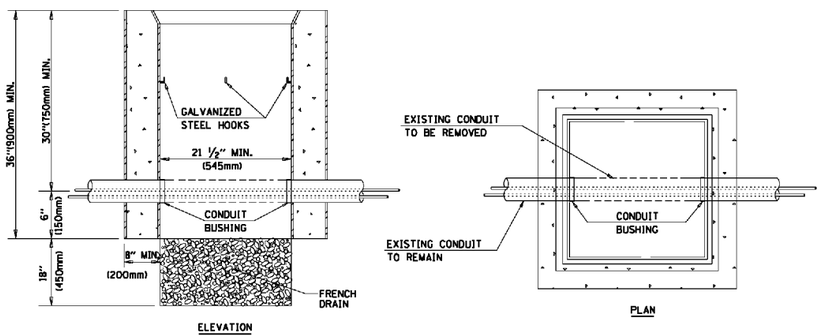
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

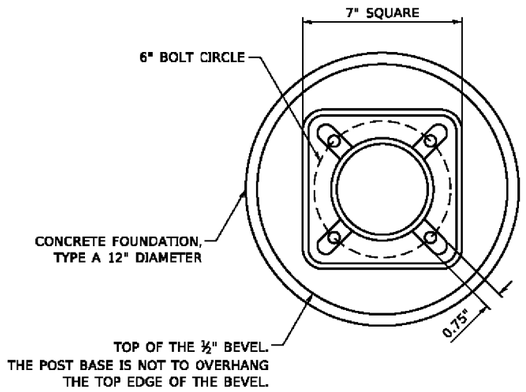
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	62
	TS-05	CONTRACT NO. 61H87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

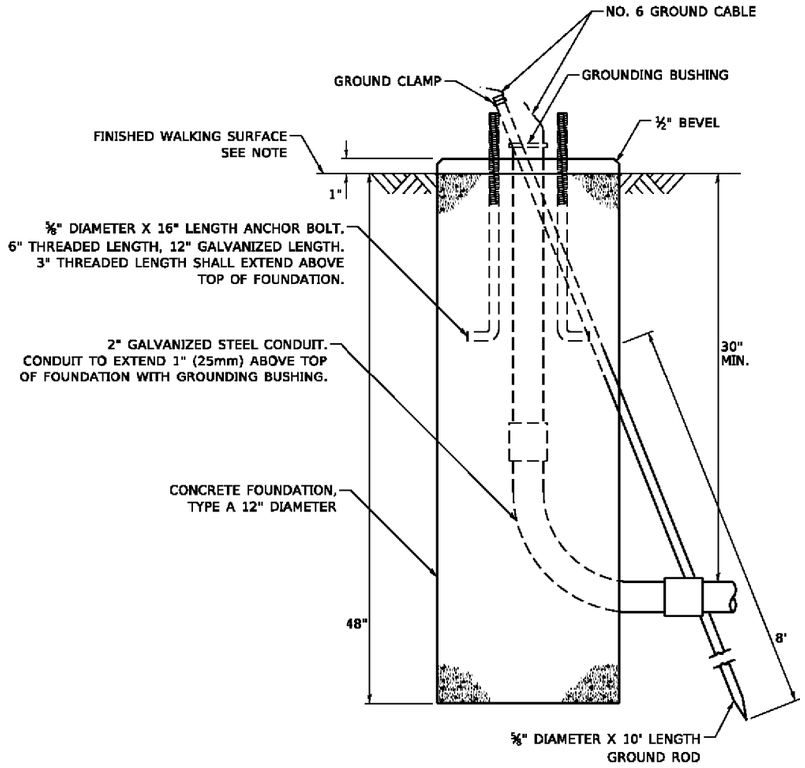
bgumnells
4/22/2022



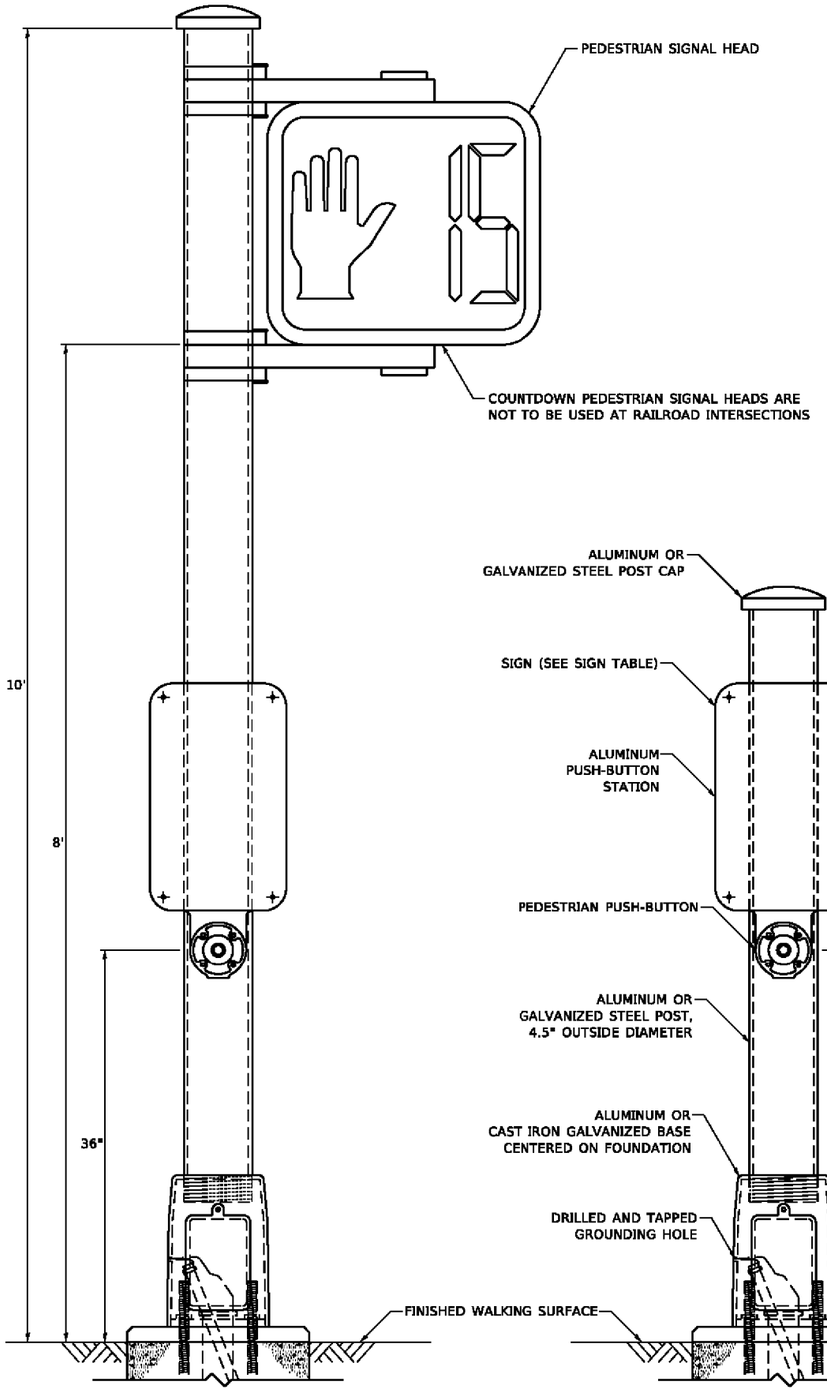
BOLT PATTERN

NOTE:

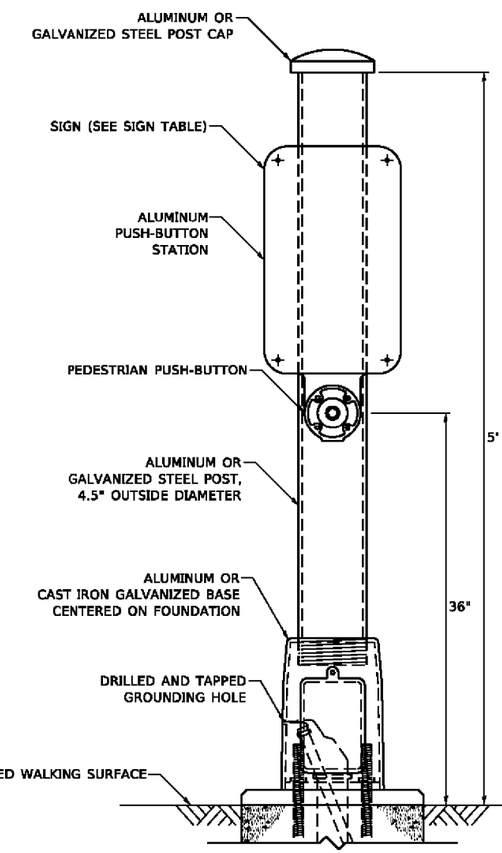
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

R10-3b R10-3d R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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	DRAWN - IP	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NTS | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	63
	TS-05	CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

bgunnells
4/22/2022

REMOVAL AND RELOCATION NOTES:

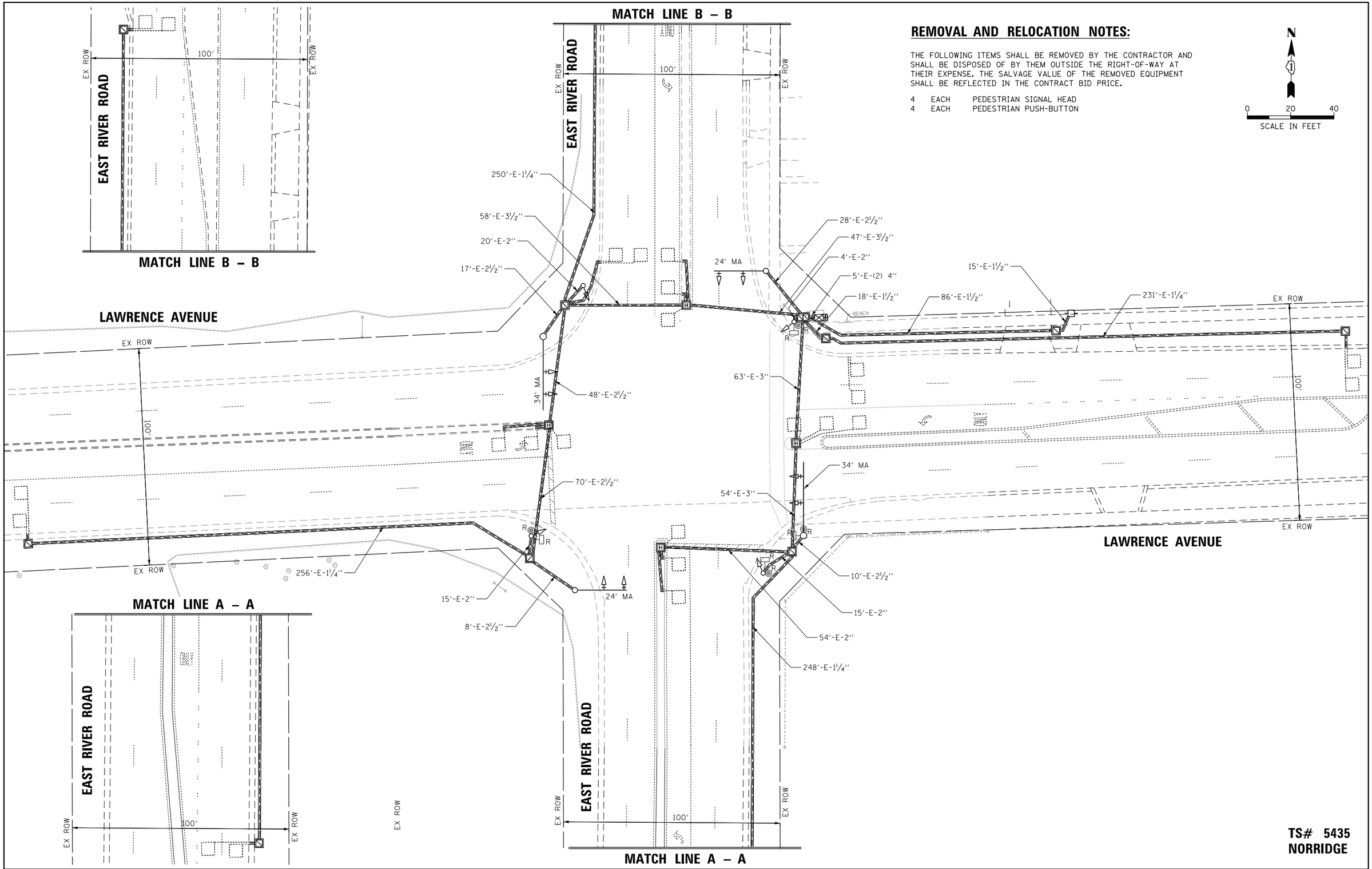
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4	EACH	PEDESTRIAN SIGNAL HEAD
4	EACH	PEDESTRIAN PUSH-BUTTON

N

0 20 40

SCALE IN FEET



TS# 5435
NORRIDGE

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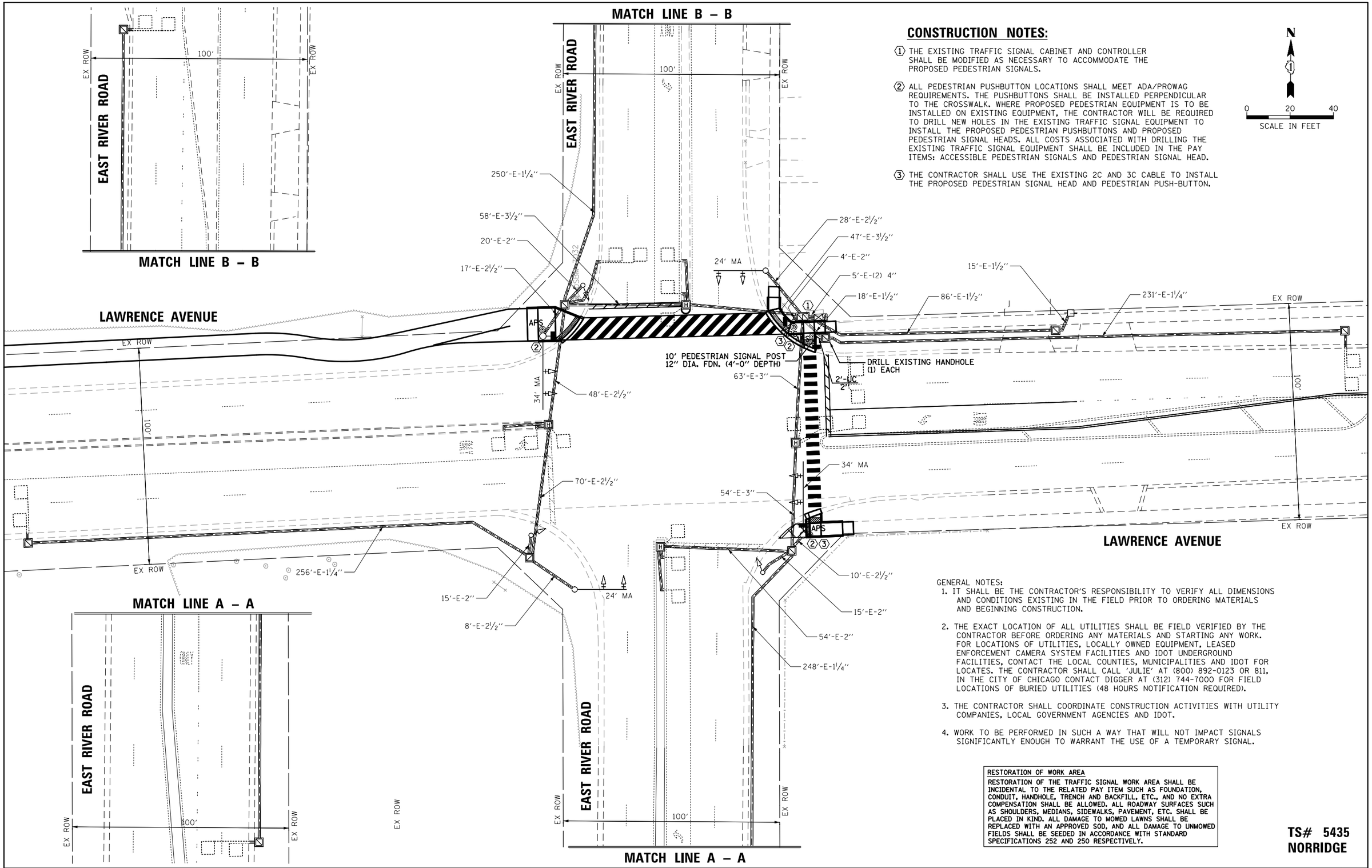
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN
LAWRENCE AVENUE AND EAST RIVER ROAD

SCALE: 1:40 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	64
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



CONSTRUCTION NOTES:

1. THE EXISTING TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE THE PROPOSED PEDESTRIAN SIGNALS.
2. ALL PEDESTRIAN PUSHBUTTON LOCATIONS SHALL MEET ADA/PROWAG REQUIREMENTS. THE PUSHBUTTONS SHALL BE INSTALLED PERPENDICULAR TO THE CROSSWALK. WHERE PROPOSED PEDESTRIAN EQUIPMENT IS TO BE INSTALLED ON EXISTING EQUIPMENT, THE CONTRACTOR WILL BE REQUIRED TO DRILL NEW HOLES IN THE EXISTING TRAFFIC SIGNAL EQUIPMENT TO INSTALL THE PROPOSED PEDESTRIAN PUSHBUTTONS AND PROPOSED PEDESTRIAN SIGNAL HEADS. ALL COSTS ASSOCIATED WITH DRILLING THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE PAY ITEMS: ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN SIGNAL HEAD.
3. THE CONTRACTOR SHALL USE THE EXISTING 2C AND 3C CABLE TO INSTALL THE PROPOSED PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON.

N

0 20 40

SCALE IN FEET

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
4. WORK TO BE PERFORMED IN SUCH A WAY THAT WILL NOT IMPACT SIGNALS SIGNIFICANTLY ENOUGH TO WARRANT THE USE OF A TEMPORARY SIGNAL.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE PLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

TS# 5435
NORRIDGE

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		DATE - 1-13-22	REVISED -

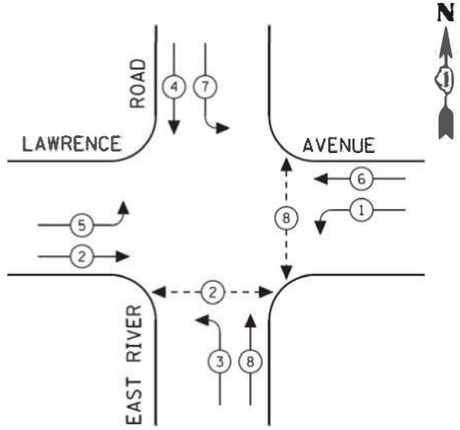
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
LAWRENCE AVENUE AND EAST RIVER ROAD

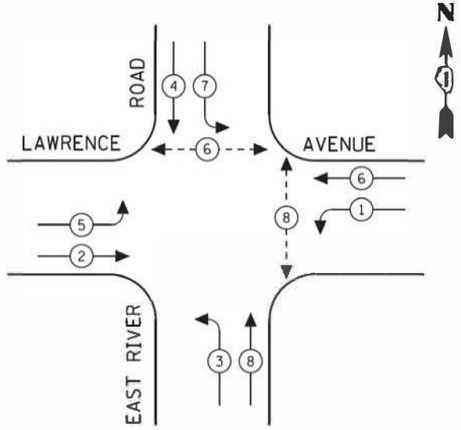
SCALE: 1:40 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	65
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

EXISTING CONTROLLER SEQUENCE

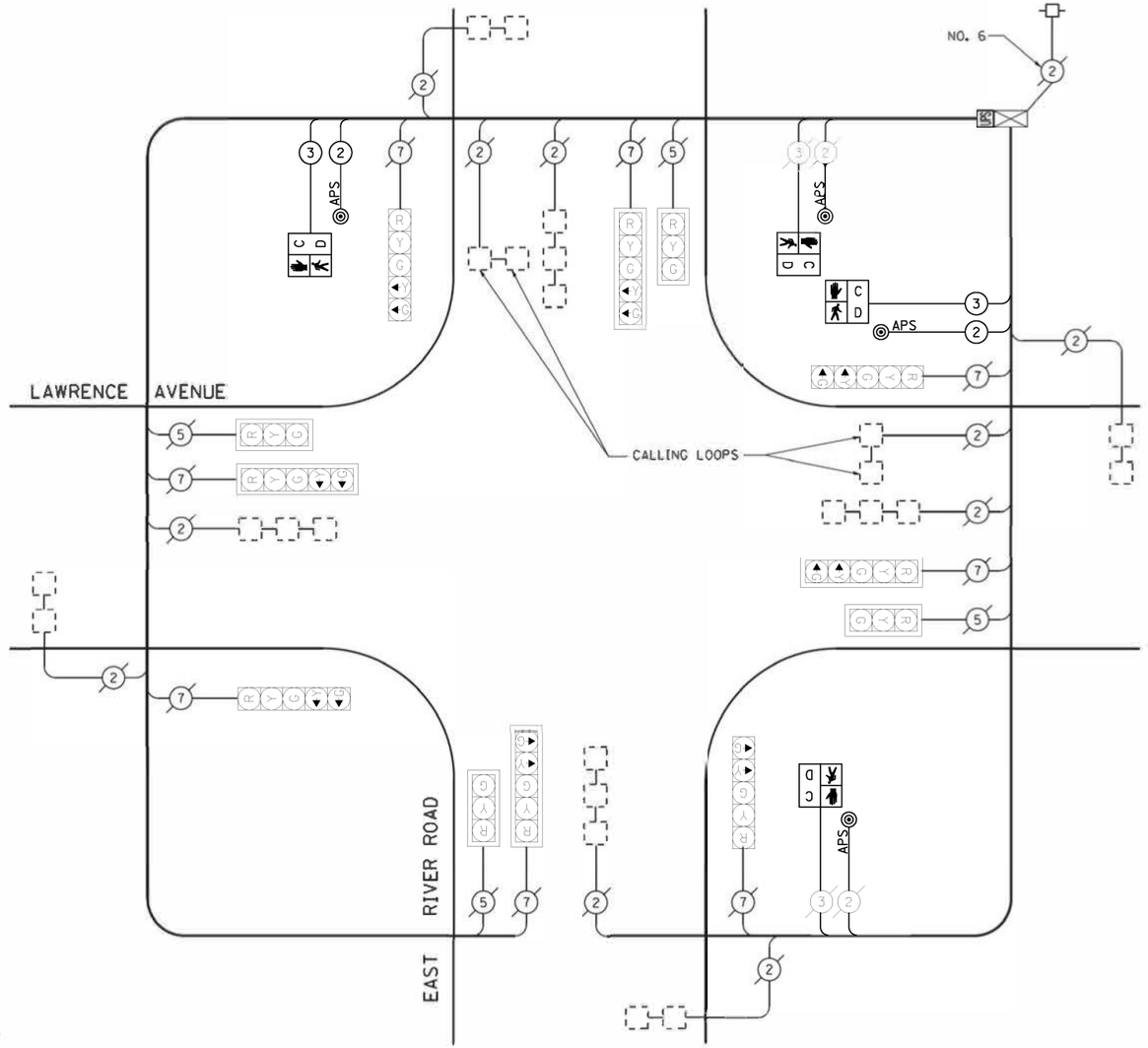


PROPOSED CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- O.L. OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	229
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	243
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	15
87900200	DRILL EXISTING HANDHOLE	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	966
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
X8780012	CONCRETE FOUNDATION, TYPE A 12 INCH DIAMETER	FOOT	4

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER		135	25	0.50	
ENERGY COSTS TO:				TOTAL =	441.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: XXX XXXXX
PHONE: (XXX) XXX-XXXX
COMPANY: COMMONWEALTH EDISON

TS# 5435
NORRIDGE

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		DATE - 1-13-22	REVISED -

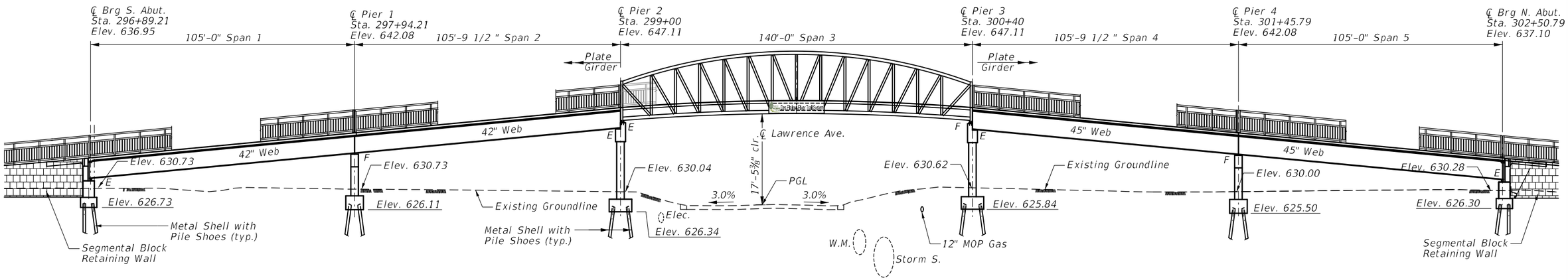
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
LAWRENCE AVENUE AND EAST RIVER ROAD

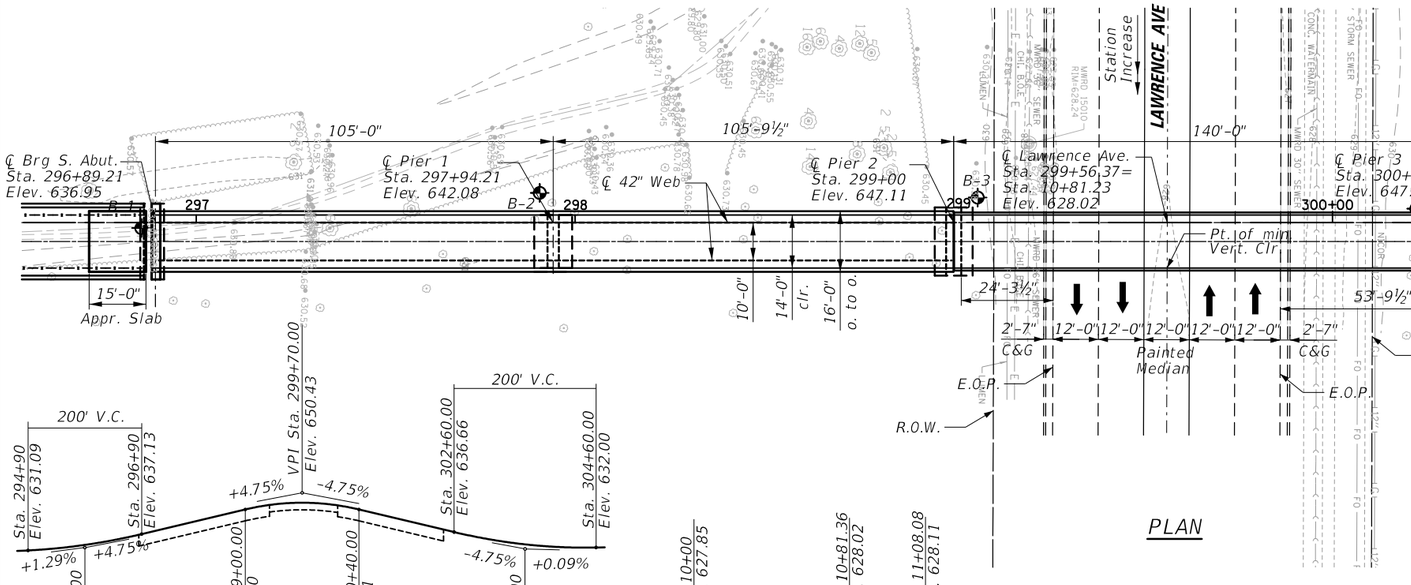
SCALE: 1:40 | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	66
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

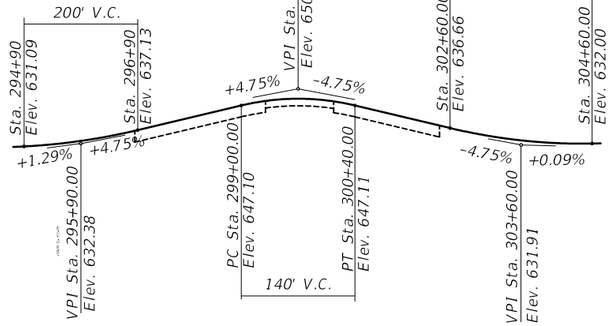
Benchmark: OSBM-7031 X-cut on concrete walk
at the southwest corner of the intersection
of Lawrence Ave. and the drive to east of the
Des Plaines River. Elev. 628.77
Existing Structure: None
No Construction Staging



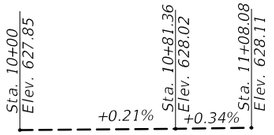
ELEVATION



PLAN



PROFILE GRADE
(Pedestrian Bridge)



LAWRENCE AVE. PROFILE GRADE
(Looking North)

STATION 299+70.00
BUILT BY
STATE OF ILLINOIS
SEC. 17-00034-00-BT
LOADING H-10
STRUCTURE NO. 016-9150

NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS

2020 AASHTO Bridge Design Specifications,
9th Edition and 2009 LRFD Guide Specifications
for the Design of Pedestrian Bridges.

LOADING

Uniform Live Load = 90 PSF or
Vehicle Live Load = H10
No Allowance for Fuure
Wearing Surface

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

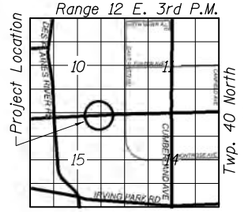
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) =0.085g
Design Spectral Acceleration at 0.2 sec. (SDS) =0.146g
Soil Site Class = D

I certify that to the best of my knowledge, information and belief, This bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specification for Highway and Bridges".

STATE OF ILLINOIS
MAJID MOBASSERI
081-005058
CHAMPAIGN, ILLINOIS
LICENSED STRUCTURAL ENGINEER

4/22/2022
MAJID MOBASSERI
STRUCTURAL ENGINEER
ILLINOIS REGISTRATION No. 081-005058
EXPIRATION DATE: 11/30/22



LOCATION SKETCH

GENERAL PLAN & ELEVATION
DES PLAINES RIVER TRAIL
OVER LAWRENCE AVENUE
SECTION 17-00034-00-BT
COOK COUNTY
STA. 299+70.00
STRUCTURE NO. 016-9150

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	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
GENERAL PLAN AND ELEVATION
SHEET NO. 1 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	67
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts ¾ in. Ø, holes $^{13}/_{16}$ in. unless otherwise noted.

2. Calculated weight of Structural Steel = 163,776 lb.

3. No field welding is permitted except as specified in the contract documents.

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

5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

6. Concrete Sealer shall be applied to the top and sides of Pier Cap of Pier 2 and 3 and the backwall, beam seat, and front face of both abutments.

7. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be Redish Brown, Munsell No. 25 yr 3/4.

8. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

9. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

10. Load carrying components designated "CVN" shall conform to the Impact Testing Requirement, Zone 2.

11. When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

    1. At least 72 hours shall have elapsed from the end of the previous pour.

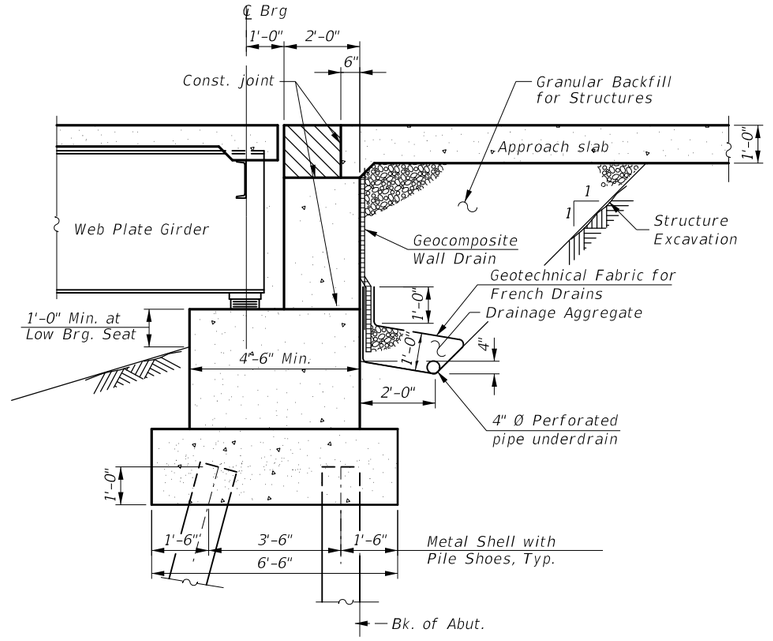
    2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

12. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.

13. Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

INDEX OF SHEET

S-1 General Plan and Elevation
s-2 General Notes, Summary of Quatities and Index of Sheet
S-3 Footing Layout – Spans 4 and 5
S-4 Truss Details – Span 3
S-5 Top of Slab Elevations
S-6 Top of Slab Elevations
S-7 Top of Approach Slab Elevations
S-8 Deck Plan and Section
S-9 Bridge Approach Slab Details
S-10 Bicycle Railing Details
S-11 Preformed Joint Strip Seal
S-12 Framing Plan – Spans 1 and 2
S-13 Framing Plan – Spans 4 and 5
S-14 Steel Details – Spans 1 and 2
S-15 Steel Details – Spans 4 and 5
S-16 Cross Frame Details
S-17 Bearing Details – Span 1 and 2
S-18 Bearing Detais – Pier 4
S-19 Bearing Detais – North Abutment and Pier 3
S-20 Abutment
S-21 Pier 1 and 4
S-22 Pier 2 and 3
S-23 Proposed Block Wall – South Approach
S-24 Proposed Block Wall – North Approach
S-25 Metal Shell Pile Details
S-26 Boring Logs
S-27 Boring Logs



SECTION THRU ABUTMENTS

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd		370	370
Concrete Structures	Cu Yd		158.0	158.0
Concrete Superstructure	Cu Yd	158.7		158.7
Protective Coat	Sq Yd	795		795
Concrete Superstructure (Approach Slab)	Cu Yd	15.0		15.0
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,505		2,505
Reinforcement Bars, Epoxy Coated	Pound	32,260	20,560	52,820
Bicycle Railing	Foot	1,310		1,310
Furnishing Metal Shell Piles 12" x 0.25"	Foot		990	990
Driving Piles	Foot		990	990
Test Pile Metal Shells	Each		6	6
Pile Shoes	Each		36	36
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	32		32
Elastomeric Bearing Assembly, Type I	Each		4	4
Anchor Bolts, 3/4"	Each		24	24
Anchor Bolts, 1"	Each		12	12
Segmental Concrete Block Wall	Sq Ft		2,730	2,730
Concrete Sealer	Sq Ft		830	830
Geocomposite Wall Drain	Sq Yd		35	35
Pipe Underdrain for Structures, 4"	Foot		515	515
Pedestrian Truss Superstructure	Sq Ft	1960		1960
High Load Multi-Rotational Bearings, Guided Expansion, 75K	Each		2	2
High Load Multi-Rotational Bearings, Guided Expansion, 100K	Each		2	2
High Load Multi-Rotational Bearings, Fixed, 250k	Each		2	2

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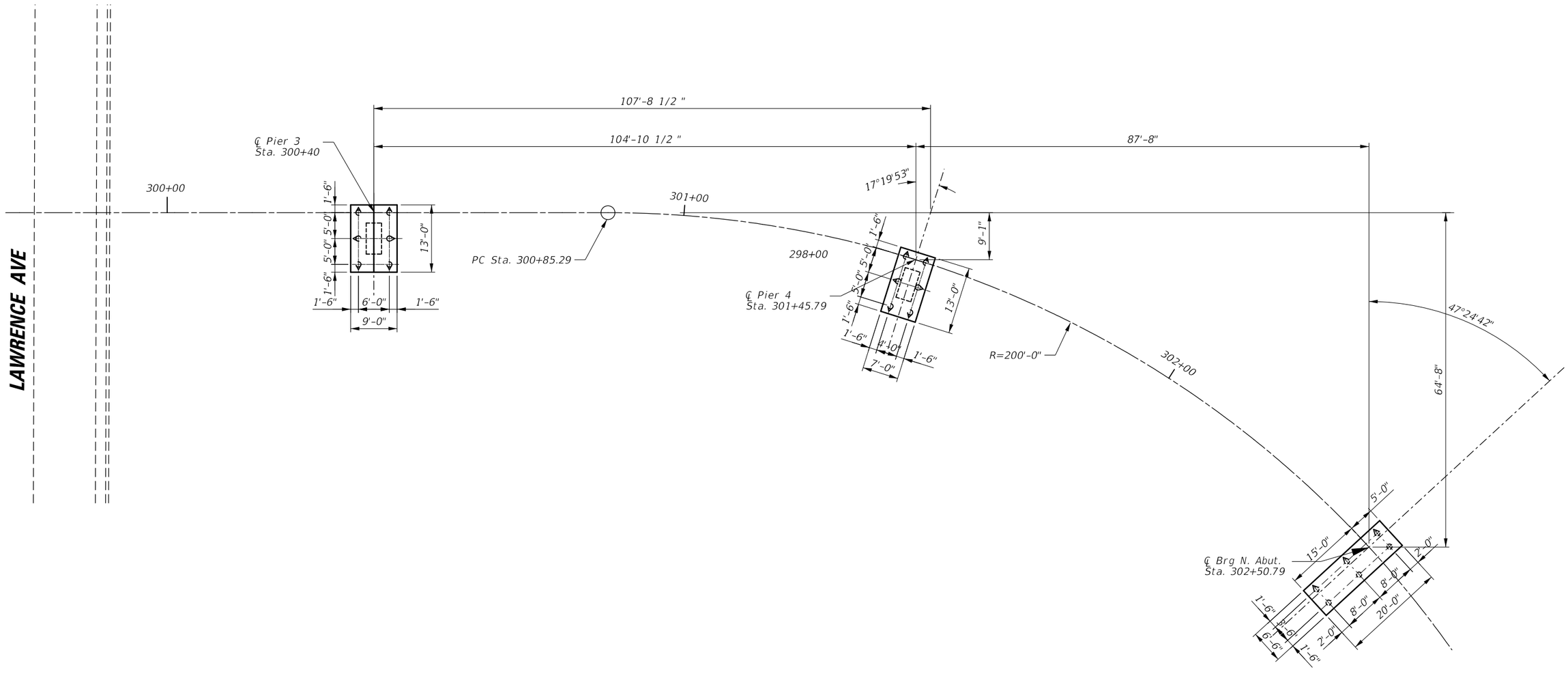
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
GENERAL NOTES, SUMMARY OF QUATITIES AND INDEX OF SHEET

SHEET NO. 2 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	68
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		



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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DES PLAINES RIVER TRAIL FOOTING LAYOUT – SPANS 4 AND 5**
		CHECKED - MM	REVISED -		
	PLOT SCALE =	DRAWN - PDR	REVISED -		
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 3 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	69
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		

PREFABRICATED PEDESTRIAN BRIDGE

The Prefabricated Pedestrian Bridge shall be designed, fabricated, delivered and erected according to the Special Provisions of "Pedestrian Truss Superstructure" and design plans.

1. Style: Connector Truss or Approved Equal.
2. Span: Span 140'-0" End to End.
3. Loading: Per AASHTO Guide Specification for Design of Pedestrian Bridges, 2nd Edition
   Dead Load: Actual weight of the structure
   Live Load: 90 PSF or H10 (20,000 Lb) vertical load. Vertical impact is not required.
   Wind Load: 35 PSF on the full vertical projected area of the bridge, as if enclosed.
   20psf upward force applied at the windward quarter point of the transverse bridge
   width (AASHTO 3.15.3). The last 10' at each end of the bridge shall be painted.

4. Finishes: All steel shall be unpainted weathering.

5. The total depth of deck, from top of deck to the bottom of bottom chord shall be less than 3'-0".

6. Truss manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.

7. Bridge bearing seat elevations are subject to revision based on the approved pedestrian truss superstructure shop drawings. Contractor shall verify all dimensions and elevations with final shop drawings.

8.The Contractor shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Cost included with Pedestrian Truss Superstructure.

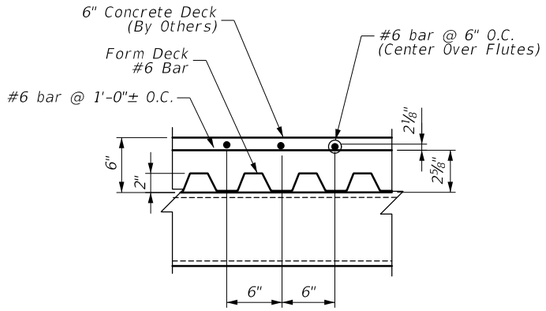
9. Truss Manufacturer shall provide joint covers for joints between abutment backwall and steel truss. Cost included with Pedestrian Truss Superstructure.

10. Quality: The bridge manufacturer shall maintain proper records assuring that all steel, bolts, and materials used are in accordance with material specified. The bridge shall be Identified and marked with a permanent nameplate showing the manufacturers name, location, date of manufacture, and load carrying capacity. Structural material shall be traceable to each bridge. All welders shall be qualified in accordance with AWS D1.1-2002 structural welding code. All workmanship shall be in compliance with AASHTO and AISC standard practice. Full penetration weld details used in shop splices shall be submitted to the Engineer to determine testing required (If any).

11. Delivery: Bridges shall be delivered by truck to a location nearest the site accessible by roads.

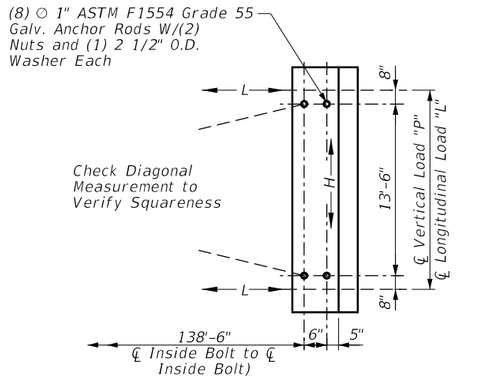
12. Field welding of construction accessories will not be permitted to beams or girders.

13. Truss manufacturer shall fabricate two sign panels, 2.5' x 22' each, shop welded on each face of the truss. The lettering and Forest Preserves of Cook County emblem, as shown on plans, shall be shop painted on both panels. The size of lettering and emblem shall be coordinated with Forest Preserves of Cook County. The cost of the signs shall be included in Pedestrian Truss Superstructure



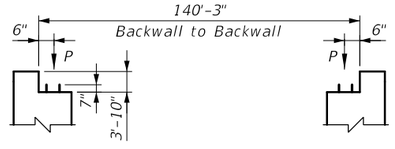
CONCEPTUAL SLAB REINFORCEMENT

This detail is provided for bidding purposes only. Actual deck details shall be provided by bridge manufacturer.



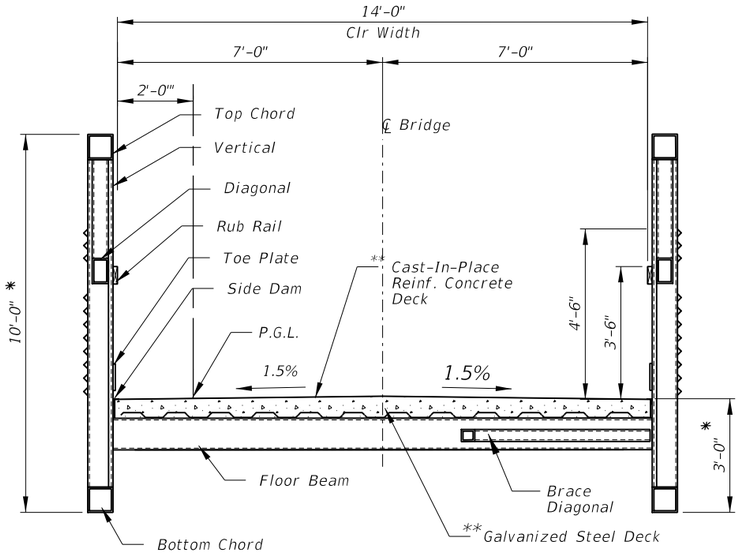
CONCEPTUAL ANCHOR BOLT PLAN LAYOUT

This detail is provided for bidding purposes only. Contractor shall coordinate the locations of the proposed anchor bolts with the bridge manufacturer prior to construction of the abutments. Anchor rods supplied by Contractor shall be embedded a minimum of 15". Base plates and $\frac{1}{8}$" Teflon pads under base plates to be supplied by bridge manufacturer.



CONCEPTUAL ANCHOR BOLT ELEVATION

This detail is provided for bidding purposes only. Contractor shall coordinate the locations of the proposed anchor bolts with the bridge manufacturer prior to construction of the abutments.



TYPICAL SECTION

* Contractor Shall Coordinate All Dimensions with Bridge Manufacturer Prior to Construction.

** Concrete Form Pan and Deck Design are Provided by Bridge Manufacturer. Concrete Slab and Reinforcement Shall Be Provided by Contractor After Bridge is Erected. Concrete and Reinforcing Requirements to be Coordinated with Bridge Manufacturer.

COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

BRIDGE REACTIONS		+ DOWNWARD LOAD - UPWARD LOAD		
		P (LBS)	H (LBS)	L (LBS)
DEAD LOAD ②		48,925		
UNIFORM LIVE LOAD		44,100		
VEHICLE LOAD		10,000		
WIND UPLIFT 20 PSF	WINDWARD	-16,450		
	LEEWARD	-5,484		
WIND		±9,695	23,685	
THERMAL ②				7,340

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

① BRIDGE LIFTING WEIGHT: 72,200 LBS

② BRIDGE FINAL WEIGHT: 195,700 LBS

① DOES NOT INCLUDE WEIGHT OF CONCRETE DECK

② INCLUDES WEIGHT OF CONCRETE DECK

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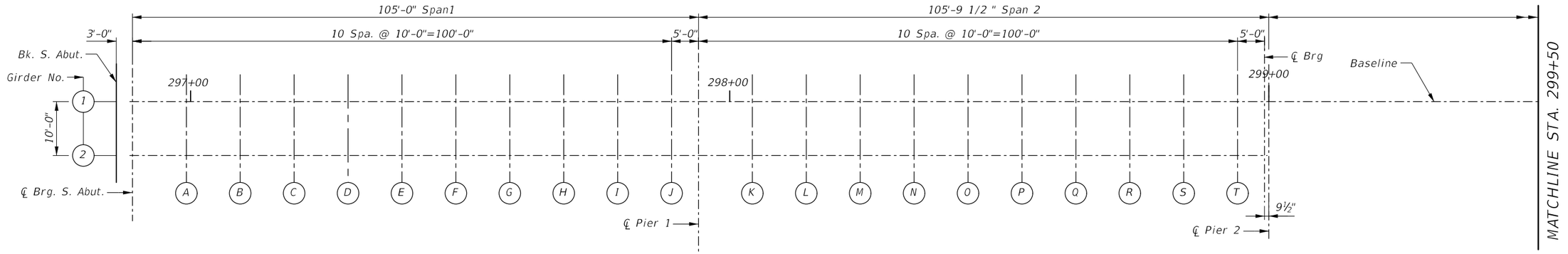
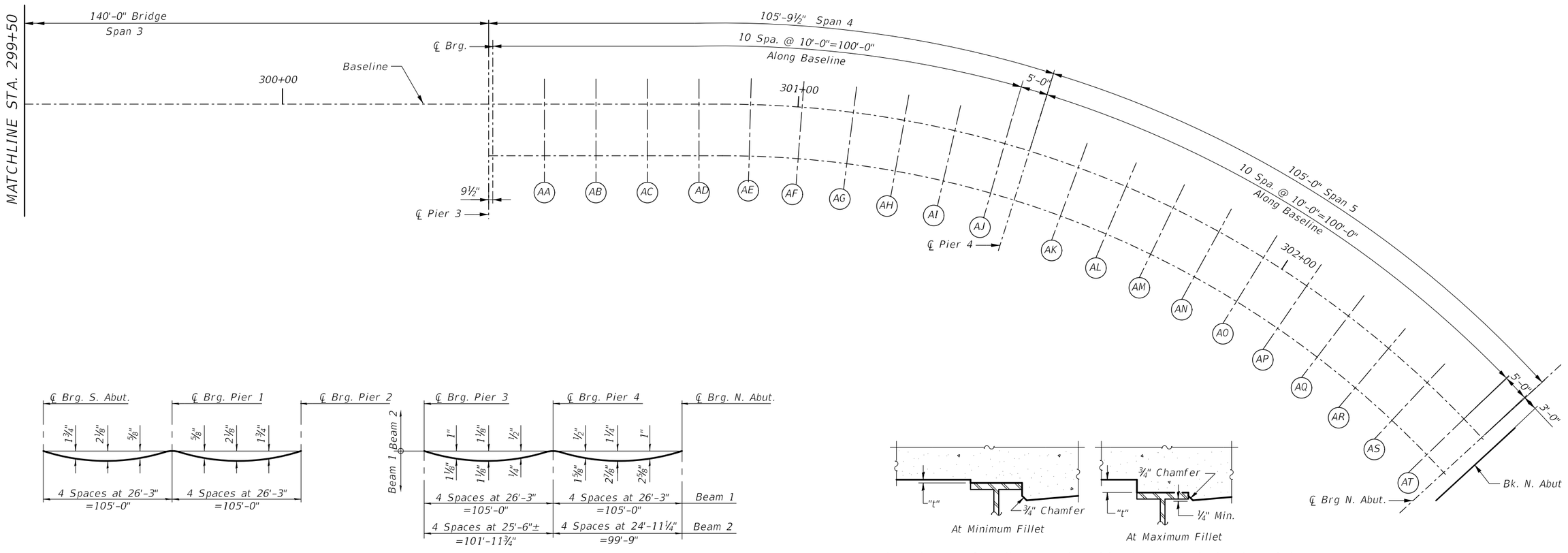
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
TRUSS DETAILS - SPAN 3

SHEET NO. 4 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	70
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		





DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet S-6, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DES PLAINES RIVER TRAIL TOP OF SLAB ELEVATIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	71
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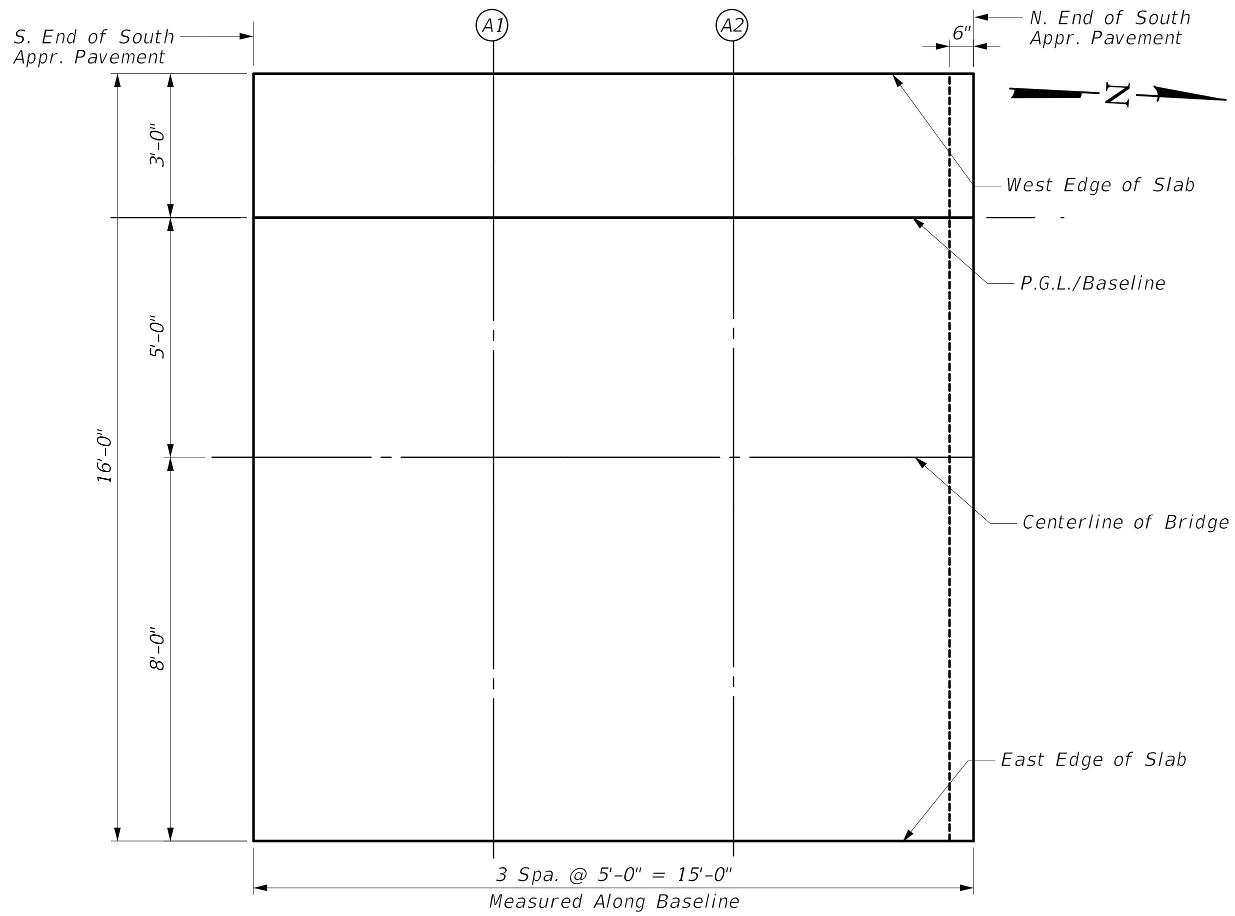
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 5 OF 27 SHEETS			ILLINOIS	FED. AID PROJECT	

GIRDER 1 & P.G.L.

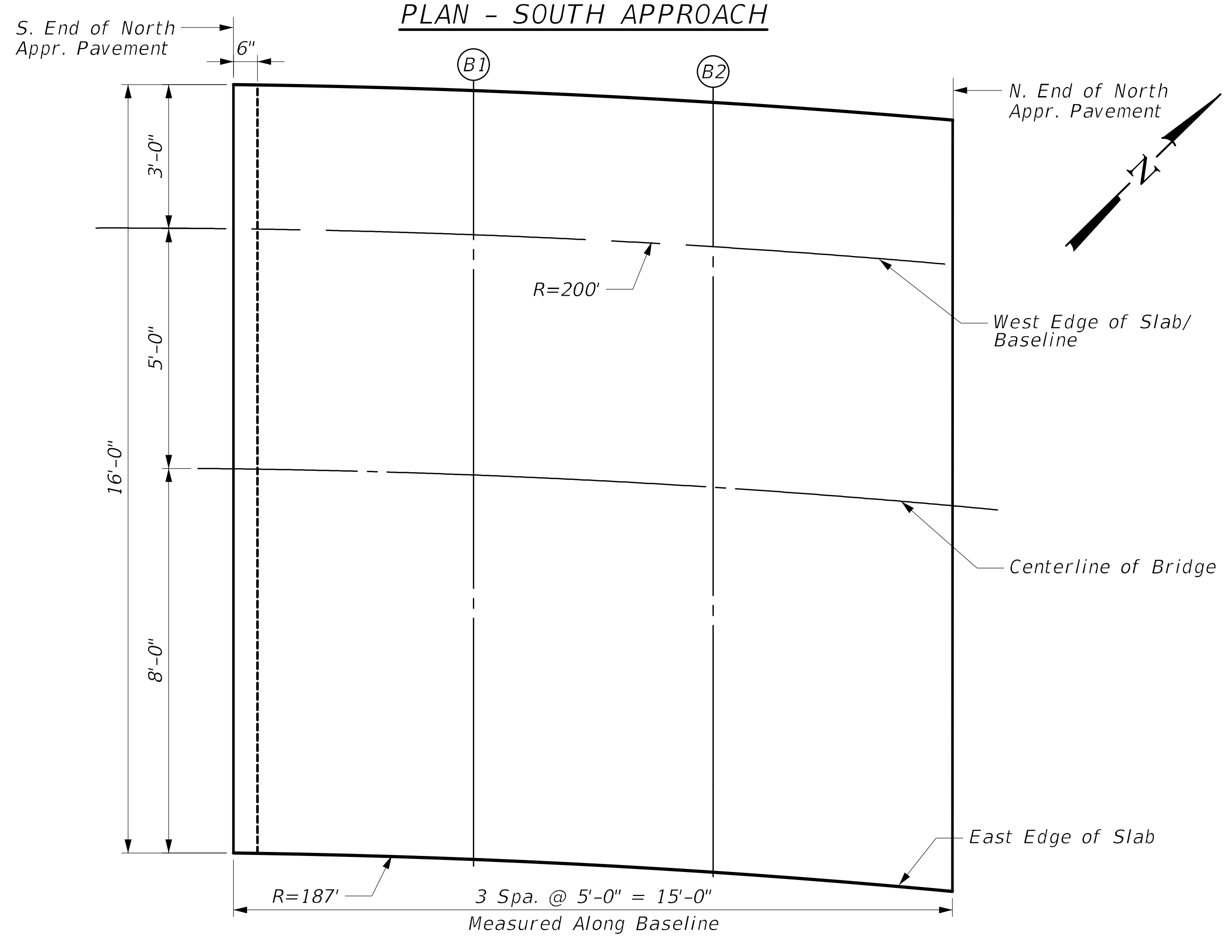
Location	Station	Offset	Theoritical Grade Elevations	Theoritical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	296+86.21	0.0	636.95	636.95
℄ Brg S. Abut.	296+89.21	0.0	637.09	637.09
A	296+99.21	0.0	637.57	637.63
B	297+09.21	0.0	638.04	638.15
C	297+19.21	0.0	638.52	638.66
D	297+29.21	0.0	638.99	639.15
E	297+39.21	0.0	639.47	639.62
F	297+49.21	0.0	639.94	640.08
G	297+59.21	0.0	640.42	640.52
H	297+69.21	0.0	640.89	640.95
I	297+79.21	0.0	641.37	641.39
J	297+89.21	0.0	641.84	641.85
℄ Pier 1	297+94.21	0.0	642.08	642.08
K	298+04.21	0.0	642.55	642.57
L	298+14.21	0.0	643.03	643.07
M	298+24.21	0.0	643.50	643.59
N	298+34.21	0.0	643.98	644.10
O	298+44.21	0.0	644.45	644.60
P	298+54.21	0.0	644.93	645.09
Q	298+64.21	0.0	645.40	645.56
R	298+74.21	0.0	645.88	646.01
S	298+84.21	0.0	646.35	646.44
T	298+94.21	0.0	646.83	646.86
℄ Brg. Span 2	298+99.21	0.0	647.07	647.07
℄ Pier 2	299+00.00	0.0	647.11	647.11
℄ Pier 3	300+40.00	0.0	647.11	647.11
℄ Brg. Span 3	300+40.79	0.0	647.07	647.07
AA	300+50.79	0.0	646.59	646.63
AB	300+60.79	0.0	646.12	646.19
AC	300+70.79	0.0	645.64	645.74
AD	300+80.79	0.0	645.17	645.27
AE	300+90.79	0.0	644.69	644.79
AF	301+00.79	0.0	644.22	644.30
AG	301+10.79	0.0	643.74	643.79
AH	301+20.79	0.0	643.27	643.29
AI	301+30.79	0.0	642.79	642.80
AJ	301+40.79	0.0	642.32	642.32
℄ Pier 4	301+45.79	0.0	642.08	642.08
AK	301+55.79	0.0	641.61	641.63
AL	301+65.79	0.0	641.13	641.20
AM	301+75.79	0.0	640.66	640.78
AN	301+85.79	0.0	640.18	640.35
AO	301+95.79	0.0	639.71	639.92
AP	302+05.79	0.0	639.23	639.46
AQ	302+15.79	0.0	638.76	638.98
AR	302+25.79	0.0	638.28	638.47
AS	302+35.79	0.0	637.81	637.93
AT	302+45.79	0.0	637.33	637.38
℄ Brg N. Abut.	302+50.79	0.0	637.10	637.10
Bk. N. Abut.	302+53.79	0.0	636.95	636.95

GIRDER 2

Location	Station	Offset	Theoritical Grade Elevations	Theoritical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	296+86.21	10.0	636.95	636.95
℄ Brg S. Abut.	296+89.21	10.0	637.09	637.09
A	296+99.21	10.0	637.57	637.63
B	297+09.21	10.0	638.04	638.15
C	297+19.21	10.0	638.52	638.66
D	297+29.21	10.0	638.99	639.15
E	297+39.21	10.0	639.47	639.62
F	297+49.21	10.0	639.94	640.08
G	297+59.21	10.0	640.42	640.52
H	297+69.21	10.0	640.89	640.95
I	297+79.21	10.0	641.37	641.39
J	297+89.21	10.0	641.84	641.85
℄ Pier 1	297+94.21	10.0	642.08	642.08
K	298+04.21	10.0	642.55	642.57
L	298+14.21	10.0	643.03	643.07
M	298+24.21	10.0	643.50	643.59
N	298+34.21	10.0	643.98	644.10
O	298+44.21	10.0	644.45	644.60
P	298+54.21	10.0	644.93	645.09
Q	298+64.21	10.0	645.40	645.56
R	298+74.21	10.0	645.88	646.01
S	298+84.21	10.0	646.35	646.44
T	298+94.21	10.0	646.83	646.86
℄ Brg. Pier 2	298+99.21	10.0	647.07	647.07
℄ Pier 2	299+00.00	10.0	647.11	647.11
℄ Pier 3	300+40.00	10.0	647.11	647.11
℄ Brg. Span 3	300+40.79	10.0	647.07	647.07
AA	300+50.79	10.0	646.59	646.63
AB	300+60.79	10.0	646.12	646.19
AC	300+70.79	10.0	645.64	645.74
AD	300+80.79	10.0	645.17	645.27
AE	300+90.79	10.0	644.69	644.79
AF	301+00.79	10.0	644.22	644.30
AG	301+10.79	10.0	643.74	643.80
AH	301+20.79	10.0	643.27	643.30
AI	301+30.79	10.0	642.79	642.81
AJ	301+40.79	10.0	642.32	642.32
℄ Pier 4	301+45.79	10.0	642.08	642.08
AK	301+55.79	10.0	641.61	641.62
AL	301+65.79	10.0	641.13	641.16
AM	301+75.79	10.0	640.66	640.71
AN	301+85.79	10.0	640.18	640.26
AO	301+95.79	10.0	639.71	639.80
AP	302+05.79	10.0	639.23	639.34
AQ	302+15.79	10.0	638.76	638.86
AR	302+25.79	10.0	638.28	638.37
AS	302+35.79	10.0	637.81	637.86
AT	302+45.79	10.0	637.33	637.35
℄ Brg N. Abut.	302+50.79	10.0	637.10	637.10
Bk. N. Abut.	302+53.79	10.0	636.95	636.95



PLAN - SOUTH APPROACH



PLAN - NORTH APPROACH

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S.End of South Appr. Pavement	296+71.71	-3.00	636.25
A1	296+76.71	-3.00	636.47
A2	296+81.71	-3.00	636.70
N. End of South Appr. Pavement	296+86.71	-3.00	636.93

PGL/BASELINE

Location	Station	Offset	Theoretical Grade Elevations
S.End of South Appr. Pavement	296+71.71	0.00	636.29
A1	296+76.71	0.00	636.51
A2	296+81.71	0.00	636.74
N. End of South Appr. Pavement	296+86.71	0.00	636.97

CENTERLINE OF BRIDGE

Location	Station	Offset	Theoretical Grade Elevations
S.End of South Appr. Pavement	296+71.71	5.00	636.37
A1	296+76.71	5.00	636.59
A2	296+81.71	5.00	636.82
N. End of South Appr. Pavement	296+86.71	5.00	637.05

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S.End of South Appr. Pavement	296+71.71	13.00	636.25
A1	296+76.71	13.00	636.47
A2	296+81.71	13.00	636.70
N. End of South Appr. Pavement	296+86.71	13.00	636.93

WEST EDGE OF SLAB/BASELINE

Location	Station	Offset	Theoretical Grade Elevations
S.End of North Appr. Pavement	302+53.25	-3.00	636.94
B1	302+58.78	-3.00	636.67
B2	302+63.11	-3.00	636.47
N. End of North Appr. Pavement	302+68.03	-3.00	636.24

PGL/BASELINE

Location	Station	Offset	Theoretical Grade Elevations
S.End of North Appr. Pavement	302+53.29	0.00	636.98
B1	302+58.29	0.00	636.74
B2	302+63.29	0.00	636.51
N. End of North Appr. Pavement	302+68.29	0.00	636.27

CENTERLINE OF BRIDGE

Location	Station	Offset	Theoretical Grade Elevations
S.End of North Appr. Pavement	302+53.36	5.00	637.05
B1	302+58.48	5.00	636.81
B2	302+63.61	5.00	636.57
N. End of North Appr. Pavement	302+68.74	5.00	636.33

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S.End of North Appr. Pavement	302+53.47	13.00	636.93
B1	302+58.81	13.00	636.67
B2	302+63.16	13.00	636.47
N. End of North Appr. Pavement	302+69.51	13.00	635.17

N:\COOK COUNTY FPD\200048.00244\Struct\07-200048.99244-Approach_Slab_Det.dgn

FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

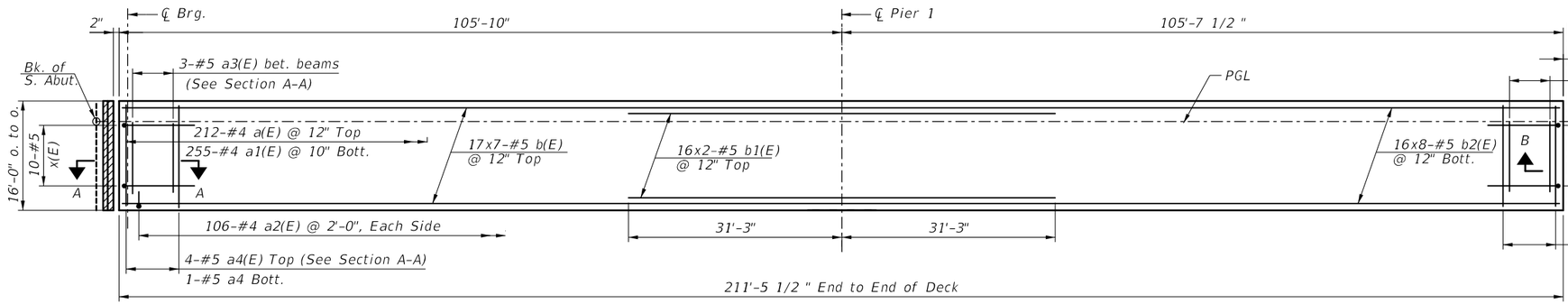
DES PLAINES RIVER TRAIL
TOP OF APPROACH SLAB ELEVATIONS

SHEET NO. 7 OF 27 SHEETS

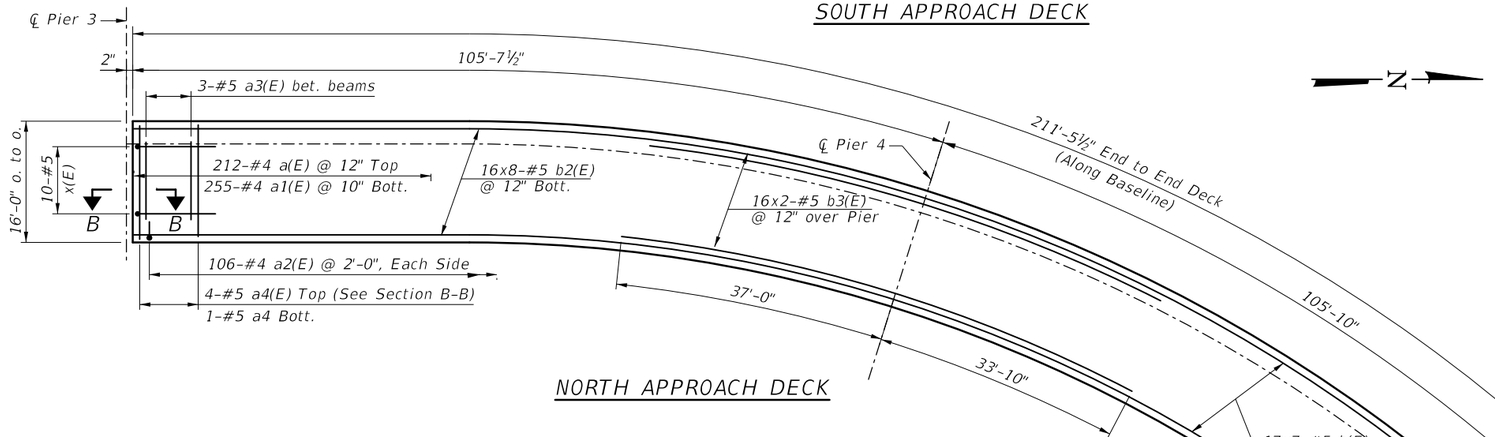
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	73

CONTRACT NO. 61H87

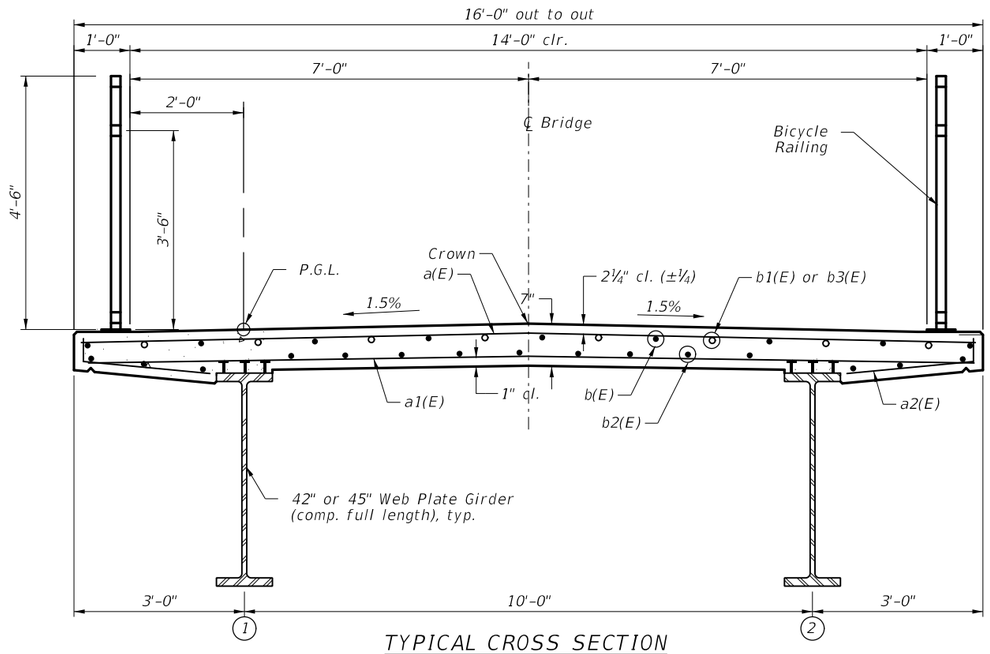
ILLINOIS FED. AID PROJECT



SOUTH APPROACH DECK

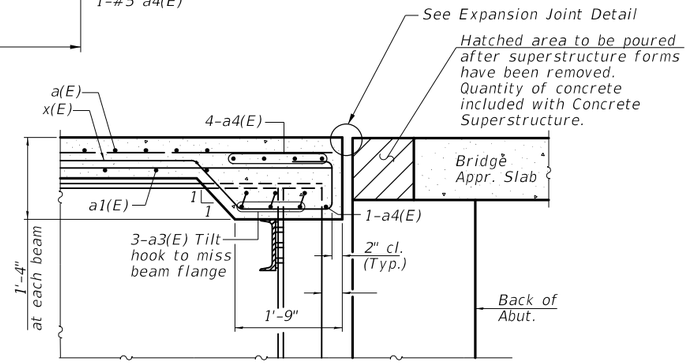


NORTH APPROACH DECK

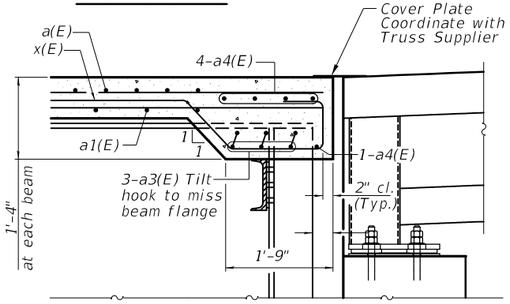


TYPICAL CROSS SECTION

(Looking North)



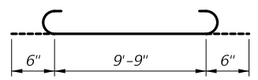
SECTION A-A



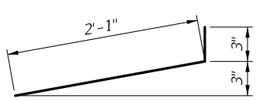
SECTION B-B

Min. Bar Lap

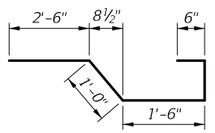
#5 Bar = 2'-11"



BAR a3(E)



BAR a2(E)



BAR x(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	a(E)	424	#4	15'-8"	
	a1(E)	510	#4	15'-8"	
	a2(E)	424	#4	2'-4"	
	a3(E)	12	#5	10'-9"	
	a4(E)	16	#5	15'-8"	
*	b(E)	238	#5	33'-0"	
	b1(E)	32	#5	33'-2"	
*	b2(E)	256	#5	29'-2"	
	b3(E)	32	#5	39'-10"	
	x(E)	40	#5	6'-5"	
	Concrete Superstructure			Cu. Yd.	158.7
	Reinforcement Bars, Epoxy Coated			Pound	29,510
	Protective Coat			Sq. Yd.	740

* Field Bent

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
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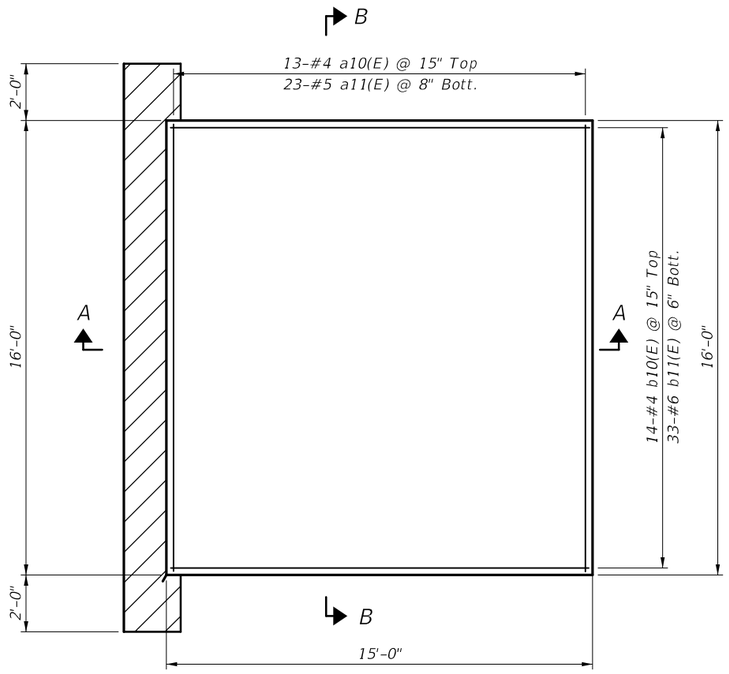
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
DECK PLAN AND SECTION

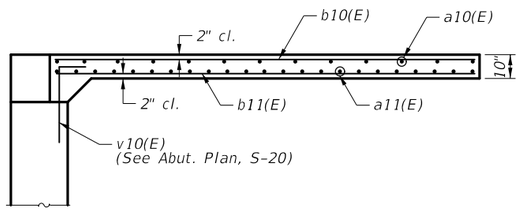
SHEET NO. 8 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	74
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

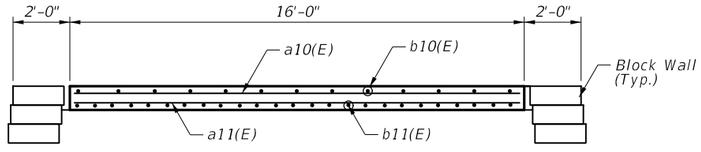


PLAN-NORTH APPROACH

(SOUTH APPROACH SIMILAR)



SECTION A-A



SECTION B-B

(Railings Not Shown for Clarity)

TWO APPROACHES
BILL OF MATERIAL

(FOR BOTH NORTH AND SOUTH APPROACH)

Bar	No.	Size	Length	Shape
a10(E)	26	#4	15'-8"	———
a11(E)	46	#5	15'-8"	———
b10(E)	28	#4	14'-8"	———
b11(E)	66	#6	14'-8"	———
Concrete Superstructure (Approach Slab)			Cu. Yd.	15.0
Reinforcement Bars, Epoxy Coated			Pound	2,750
Protective Coat			Sq. Yd.	55

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
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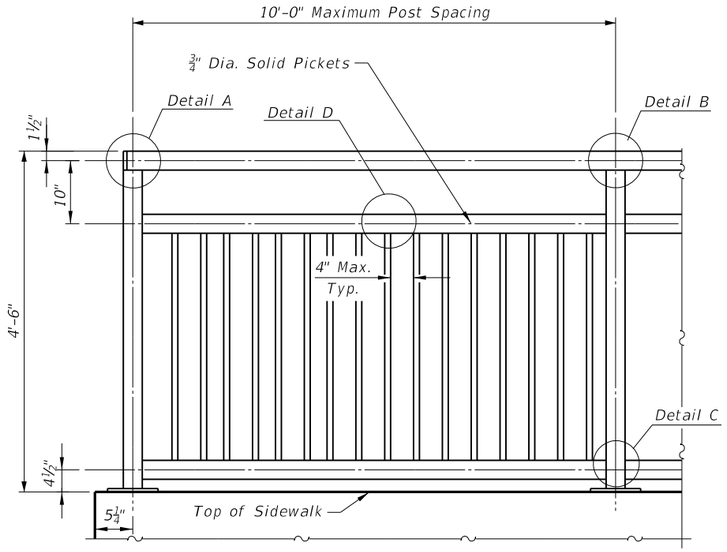
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
BRIDGE APPROACH SLAB DETAILS

SHEET NO. 9 OF 27 SHEETS

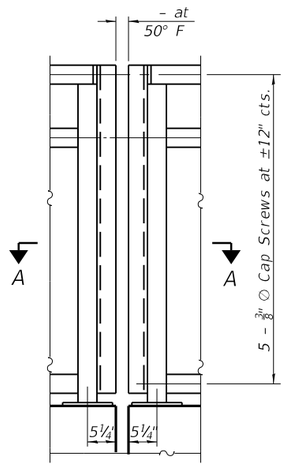
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	75
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		

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

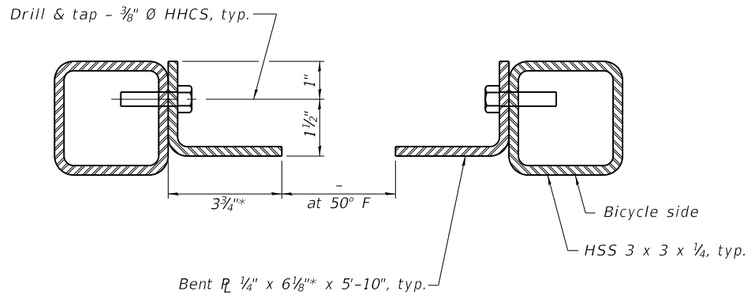


BRIDGE FENCE RAILING (SIDEWALK)

Maximum Post Spacing = 10'-0"

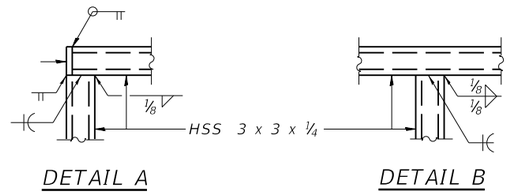


JOINT DETAIL



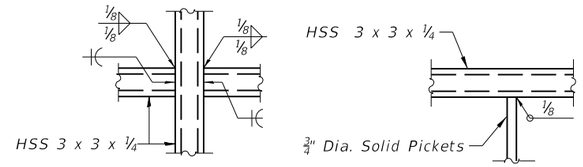
SECTION A-A

* Assume ⅜" radius. Dimensions may need to be modified for larger joints to avoid gaps greater than 6".



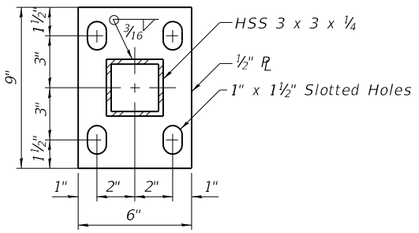
DETAIL A

DETAIL B

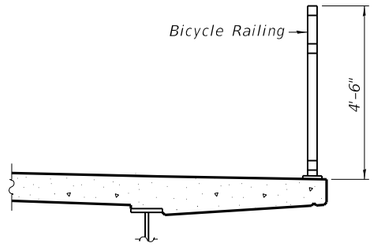


DETAIL C

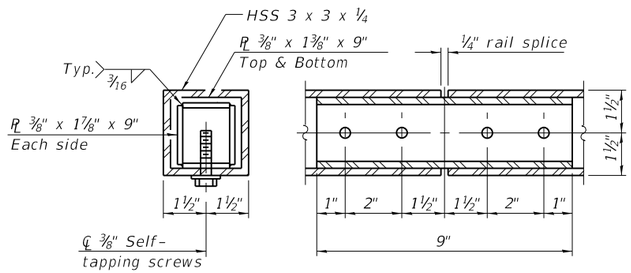
DETAIL D



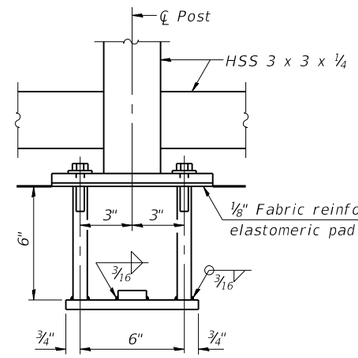
BASE PL

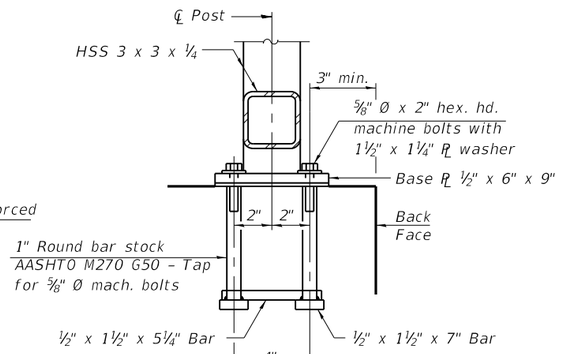


SECTION THRU DECK



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	1,310

Notes:

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

CVN testing may be omitted for the Bicycle Railing.

(10'-0" Maximum Post Spacing)

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
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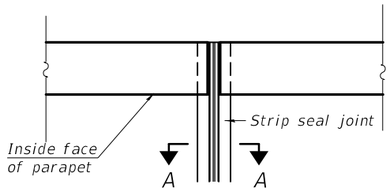
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

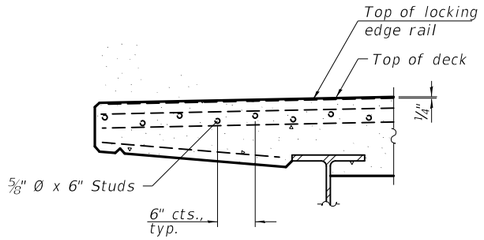
DES PLAINES RIVER TRAIL
BICYCLE RAILING DETAILS

SHEET NO. 10 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	76
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

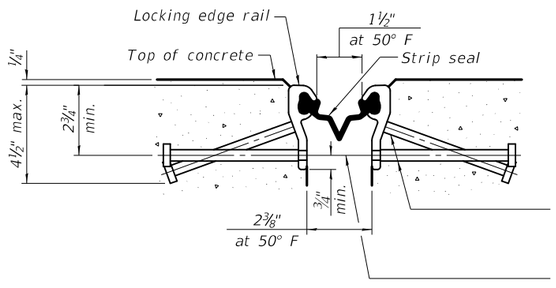


PLAN AT PARAPET

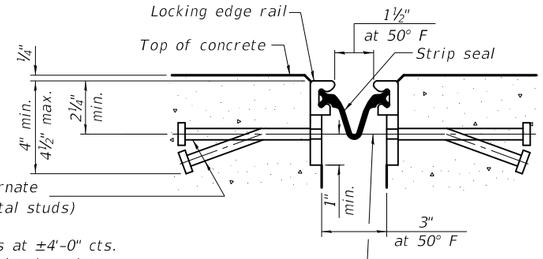


SECTION AT SLAB

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



SHOWING ROLLED RAIL JOINT



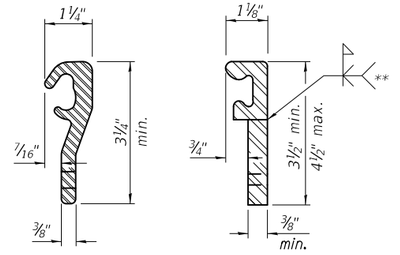
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	32

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
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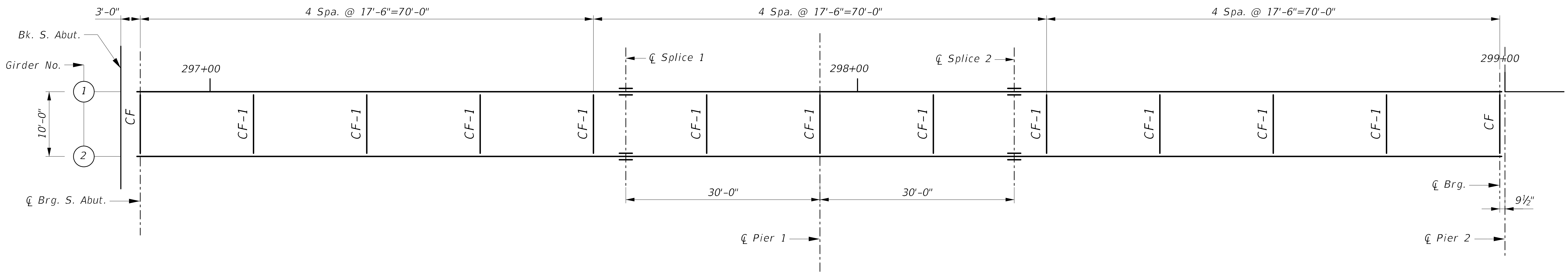
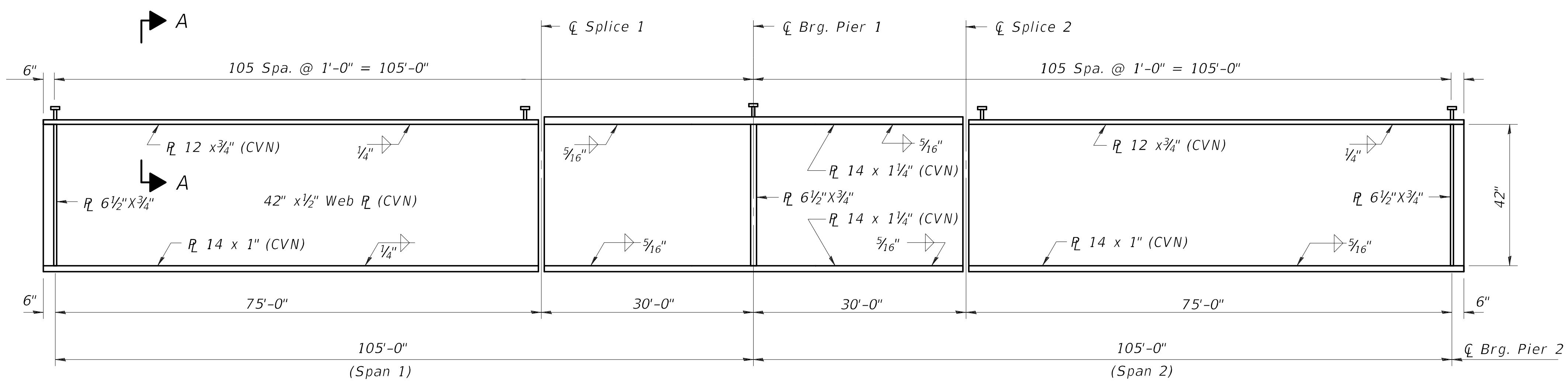
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
PREFORMED JOINT STRIP SEAL

SHEET NO. 11 OF 27 SHEETS

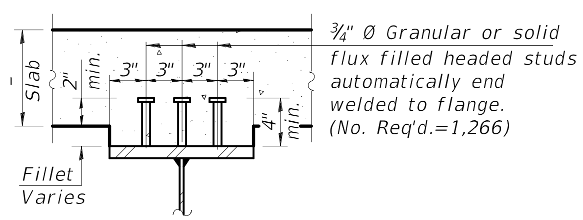
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	77
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		





GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



SECTION A-A

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		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	78
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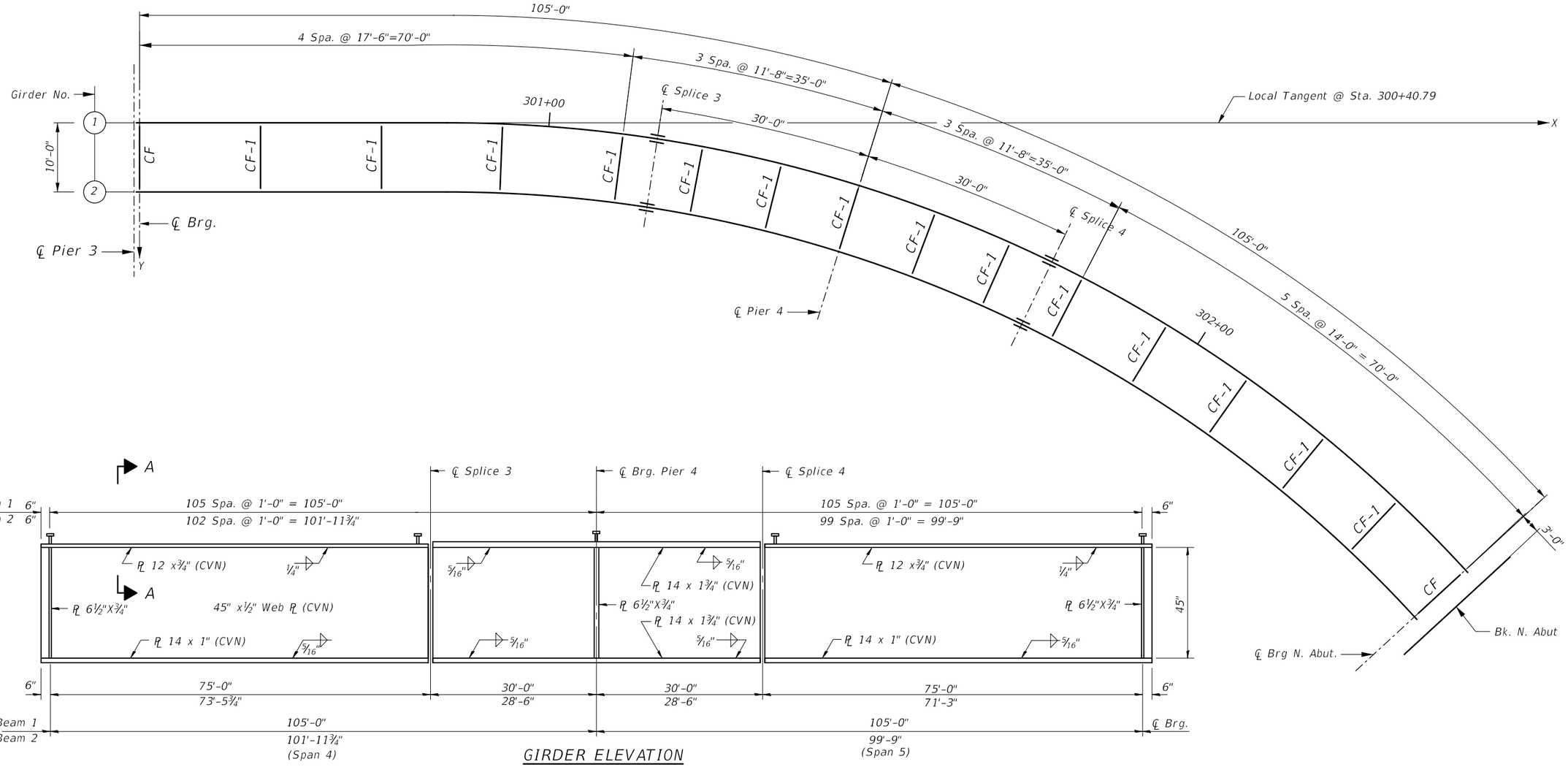
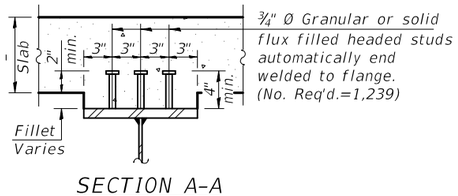
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 12 OF 27 SHEETS	ILLINOIS FED. AID PROJECT				



GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.



SECTION A-A

LAYOUT DIMENSIONS

(In Feet)

Beam	Pier 3		Spl 3		Pier 4		Spl 4		Abutment	
	X	Y	X	Y	X	Y	X	Y	X	Y
1	0	0	74.875	2.333	104.083	9.083	131.958	20.125	191.75	64.667
2	0	10	73.375	12.208	101.083	18.625	127.583	29.125	184.375	71.417

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
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	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

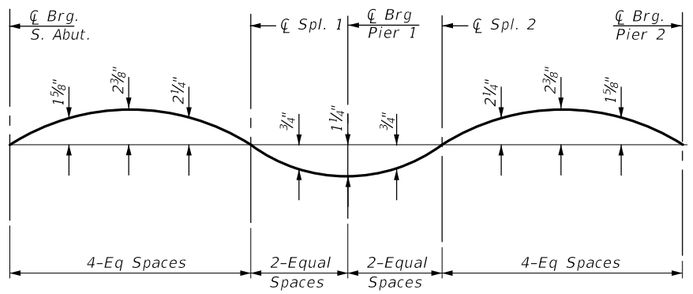
DES PLAINES RIVER TRAIL
FRAMING PLAN - SPANS 4 AND 5
SHEET NO. 13 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	79
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
Is	(in^4)	13404	19459	13404
Ic(n)	(in^4)	37202	42655	37202
Ic(3n)	(in^4)	28015	32820	28015
Ic(cr)	(in^4)	16726	22269	16726
Ss	(in^3)	686	875	686
Sc(n)	(in^3)	961	–	961
Sc(3n)	(in^3)	892	–	892
Sc(cr)	(in^3)	–	1100	–
DC1	(k/')	0.87	0.92	0.87
MDC1	('k)	610	1339	610
DC2	(k/')	0.05	0.05	0.05
MDC2	('k)	37	72	37
DW	(k/')	0	0	0
MDW	('k)	0	0	0
LLDF		0.5	0.5	0.5
M_{L+IM}	('k)	653	915	653
Mu (Strength I)	('k)	1952	3365	1952
Øf Mn	('k)	4809	4072	4809
fs DC1	(ksi)	10.7	18.4	10.7
fs DC2	(ksi)	0.5	0.8	0.5
fs DW	(ksi)	0	0	0
fs (L+IM)	(ksi)	8.2	10.0	8.2
fs (Service II)	(ksi)	21.3	32.2	21.3
0.95Rh Fyf	(ksi)	47.5	47.5	47.5
fs (Total)(Strength I)	(ksi)	28.4	41.5	28.4
Øf Fn	(ksi)	50	50	50
Vf	(k)	–	–	–

INTERIOR GIRDER REACTION TABLE			
		Abut. & Pier 2	Pier 1
RDC1	(k)	33	118
RDC2	(k)	2	7
RDW	(k)	0	0
RL	(k)	29	84
RIM	(k)	0	0
RTotal	(k)	64	209

TOP OF WEB ELEVATION					
Beam	S. Abut.	Spl 1	Pier 1	Spl 2	Pier 2
1	636.38	639.92	641.25	642.77	646.36
2	636.38	639.92	641.25	642.77	646.36



CAMBER DIAGRAM

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
$1.25\ (MDC1 + MDC2) + 1.5\ MDW + 1.75\ M_{L+IM}$

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or MDW / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).
$fsDC1 + fsDC2 + fsDW + 1.3\ fs(L+IM)$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (fsDC1 + fsDC2) + 1.5\ fsDW + 1.75\ fs(L+IM)$

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
ML and RL include the effects of centrifugal force and superelevation.

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
STEEL DETAILS – SPAN 1 AND 2
SHEET NO. 14 OF 27 SHEETS

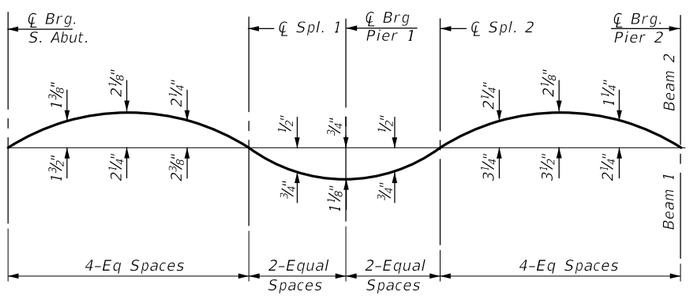
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	80
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

GIRDER MOMENT TABLE							
		BEAM 1			BEAM 2		
		0.4 Sp. 4	Pier	0.6 Sp. 5	0.4 Sp. 4	Pier	0.6 Sp. 5
Is	(in^4)	15617	30583	15617	15617	305831	15617
Ic(n)	(in^4)	42775	60676	42775	42775	60676	42775
Ic(3n)	(in^4)	32162	46858	32162	32162	46858	32167
Ic(cr)	(in^4)	19348	33798	19348	19348	33798	19348
Ss	(in^3)	746	1261	746	746	1261	746
Sc(n)	(in^3)	1043	–	1043	1043	–	1043
Sc(3n)	(in^3)	967	–	967	967	–	967
Sc(cr)	(in^3)	–	1499	–	–	1499	–
Sxc	(in^3)	973	1405	947	982	1420	1012
DC1	(k/')	0.88	0.98	0.88	0.88	0.98	0.88
MDC1	('k)	577	1667	799	504	1389	258
DC2	(k/')	0.05	0.05	0.05	0.05	0.05	0.05
MDC2	('k)	35	88	45	30	73	19
DW	(k/')	0	0	0	0	0	0
MDW	('k)	0	0	0	0	0	0
LLDF		0.5	0.5	0.5	0.5	0.5	0.5
M_{L+IM}	('k)	821	1085	880	486	942	305
fℓ (Strength I)	('k)	25.11	11.52	21.36	0.00	9.80	6.74
Mu + $^1/_3$fℓ Sxc	('k)	2202	4093	2595	1518	3476	880
Øf Mn	('k)	N/A	N/A	N/A	5329	N/A	N/A
fs DC1	(ksi)	9.28	15.86	12.85	8.11	13.22	4.15
fs DC2	(ksi)	0.43	0.70	0.56	0.37	0.58	0.24
fs DW	(ksi)	0.00	0.00	0.00	0.00	0.00	0.00
fs (ℓ+IM)	(ksi)	9.45	8.69	10.12	5.59	7.54	3.51
fℓ (Service II)	(ksi)	20.61	8.95	15.76	0.00	7.58	5.15
fs+ $^{fℓ}/_2$ (Service II)	(ksi)	32.30	32.33	34.45	15.75	27.40	11.52
0.95Rh Fyf	(ksi)	47.5	47.5	47.5	47.5	47.5	47.5
fs + $^{fℓ}/_3$ (Total)(Strength I)	(ksi)	37.04	39.75	41.60	20.38	33.72	13.87
Øf Fn	(ksi)	50	50	50	50	50	50
Vf	(k)	–	–	–	–	–	–

GIRDER 1 REACTION TABLE				
		Pier 3	Pier 4	N. Abut.
RDC1	(k)	32	99	44
RDC2	(k)	2	6	3
RDW	(k)	0	0	0
R_L	(k)	36	71	47
R_{IM}	(k)	0	0	0
RTotal	(k)	70	176	94

GIRDER 2 REACTION TABLE				
		Pier 3	Pier 4	N. Abut.
RDC1	(k)	30	148	16
RDC2	(k)	2	8	1
RDW	(k)	0	0	0
R_L	(k)	22	99	13
R_{IM}	(k)	0	0	0
RTotal	(k)	54	255	30

TOP OF WEB ELEVATION					
Beam	Pier 3	Spl 3	Pier 4	Spl 4	N. Abut.
1	646.36	642.67	641.21	639.93	636.39
2	646.36	642.69	641.21	639.85	636.39



CAMBER DIAGRAM

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs(Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Sxc: Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange ($in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact)(kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
$1.25\ (MDC1 + MDC2) + 1.5\ MDW + 1.75\ M_{L+IM}$

fℓ: Factored calculated normal stress at edge of flange for controlling flange plate due to lateral bending, Strength I or Service II as applicable (kip-ft.).

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1 / Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2 / Sc(3n) or MDC2 / Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW / Sc(3n) or MDW / Sc(cr) as applicable.

fs (ℓ+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or MDW / Sc(cr) as applicable.

fs + $^{fℓ}/_2$ (Service II): Sum of stresses as computed below (ksi).
$fsDC1 + fsDC2 + fsDW + 1.3\ fs(L+IM) + {}^{fℓ}/_2$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs + $^{fℓ}/_3$ (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (fsDC1 + fsDC2) + 1.5\ fsDW + 1.75\ fs(L+IM) + {}^{fℓ}/_3$

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
M_L and R_L include the effects of centrifugal force and superelevation.

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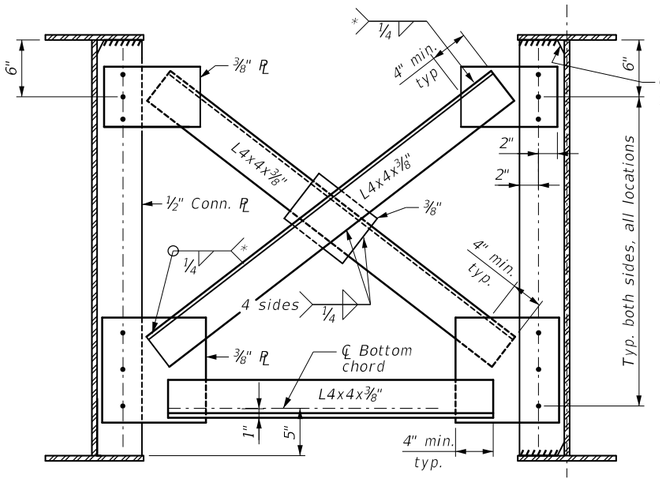
FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		CHECKED - MM	REVISED -	
	PLOT SCALE =	DRAWN - PDR	REVISED -	
	PLOT DATE =	CHECKED -	REVISED -	

DES PLAINES RIVER TRAIL
STEEL DETAILS - SPAN 4 AND 5
SHEET NO. 15 OF 27 SHEETS

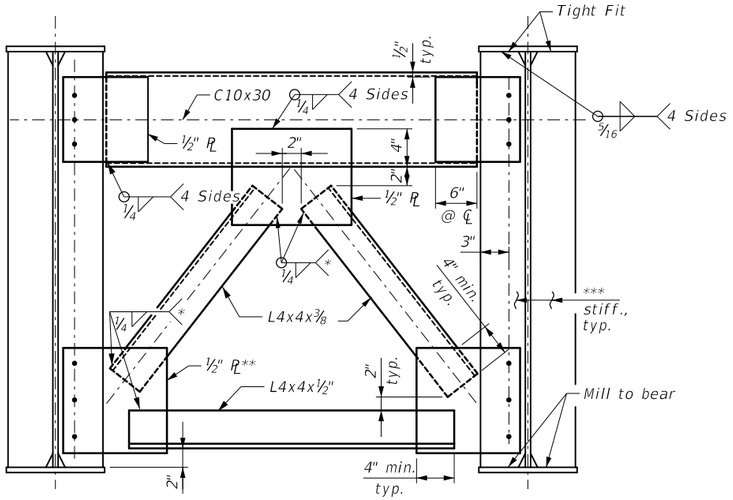
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	81
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



* Fillet weld angles along 3 sides on one face of gusset plate; however if cross-frames are galvanized, weld all-around.

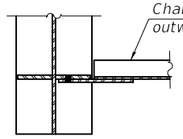
INTERIOR DIAPHRAGM "CF-1"

NOTES:
1. Detail 1 5/16" ∅ holes for all 3/4" ∅ bolts (1 1/16" ∅ holes for all 7/8" ∅ bolts only if required by design).
2. Two hardened washers required for each set of oversized holes.
3. See Interior Cross-Frame Framing Details for connection plate orientation.

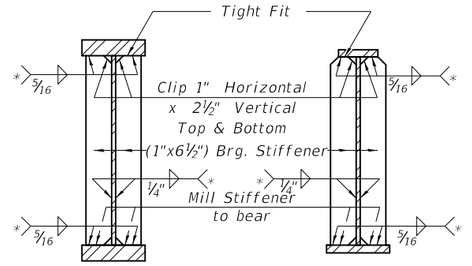


* Weld angles along 3 sides on one face of gusset plate; however if cross-frames are galvanized, weld all-around.

END DIAPHRAGM "CF"



SECTION A-A

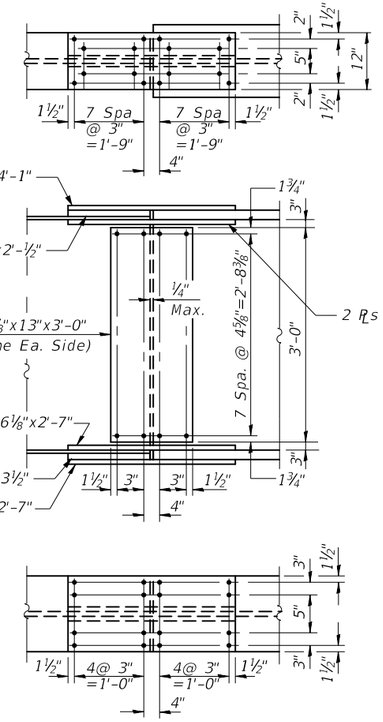


SECTION AT PIER

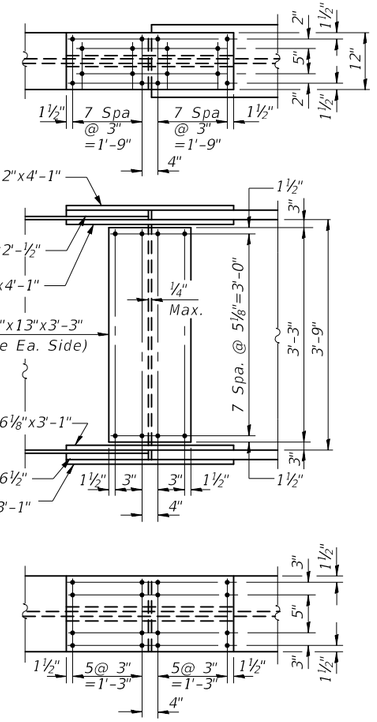
SECTION AT ABUTMENT

* Terminate ¼" (±⅛") from the end of plate intersects.

NOTES:
1. Detail 1 5/16" ∅ holes for all 3/4" ∅ bolts (1 1/16" ∅ holes for all 7/8" ∅ bolts only if required by design).
2. Two hardened washers required for each set of oversized holes.
3. See End Cross Frame Connection Details for weld and clip deatails.



FIELD SPLICE DETAIL SOUTH SPANS FS1 & FS2



FIELD SPLICE DETAIL NORTH SPANS FS3 & FS4

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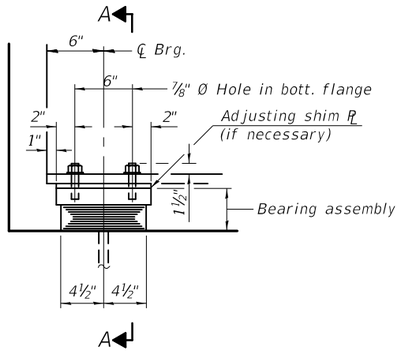
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

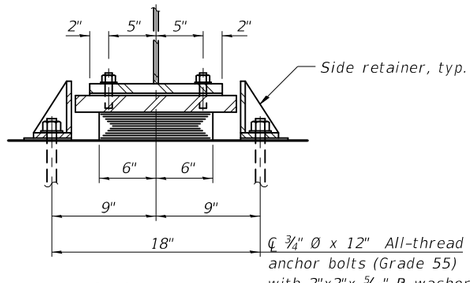
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
CROSS FRAME DETAILS
SHEET NO. 16 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	82
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



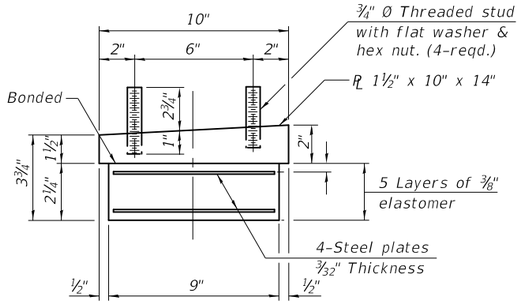
ELEVATION AT ABUT.



SECTION A-A

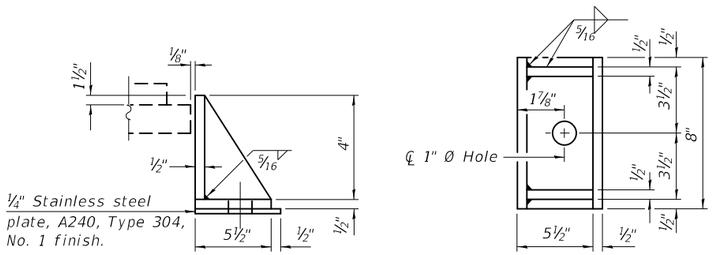
TYPE I ELASTOMERIC EXP. BRG.

SOUTH ABUTMENT & PIER 2, SPAN 2



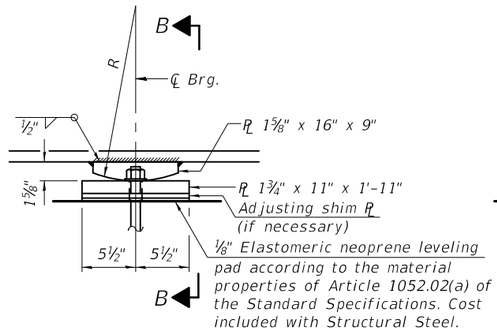
BEARING ASSEMBLY

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

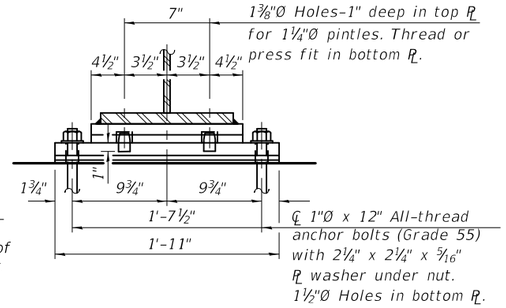


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



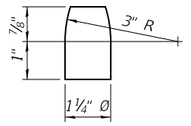
ELEVATION AT PIER



SECTION B-B

FIXED BEARING

PIER 1



PINTLE

Note:
Shim plates shall not be placed under bearing assembly.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	4
Anchor Bolts, ¾"	Each	8
Anchor Bolts, 1"	Each	4

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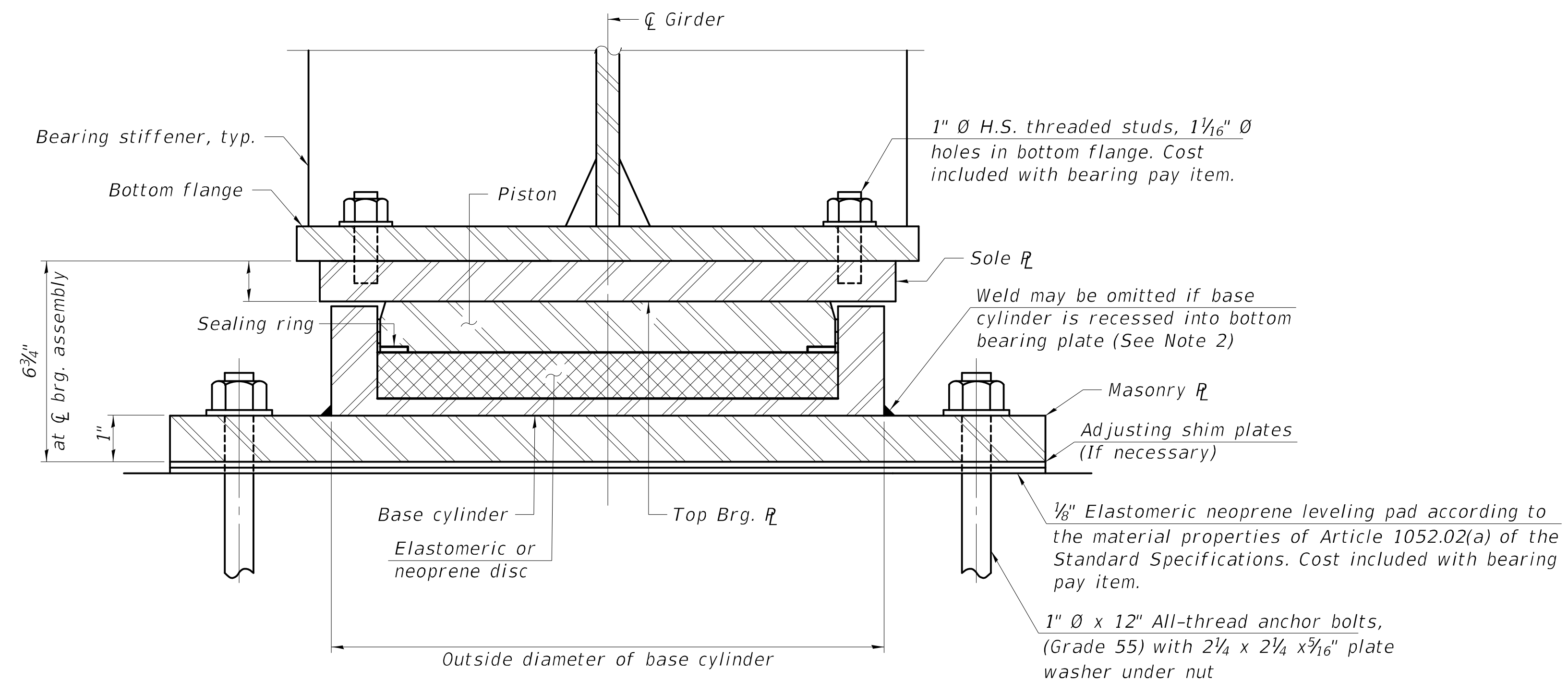
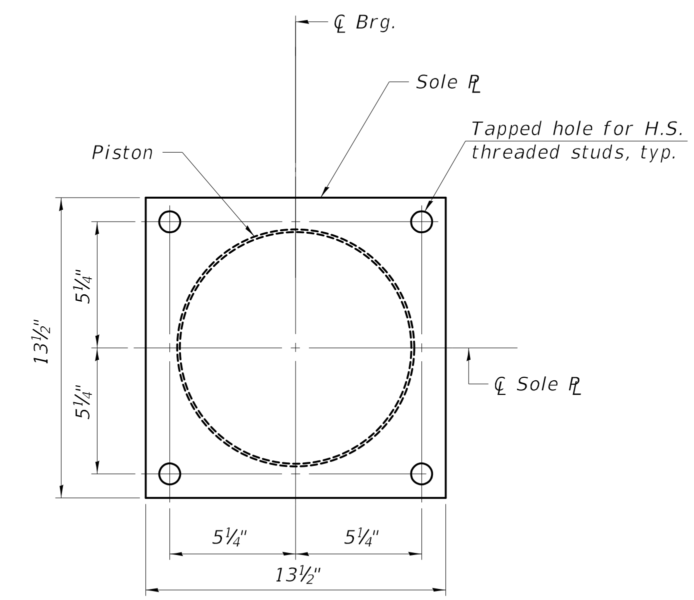
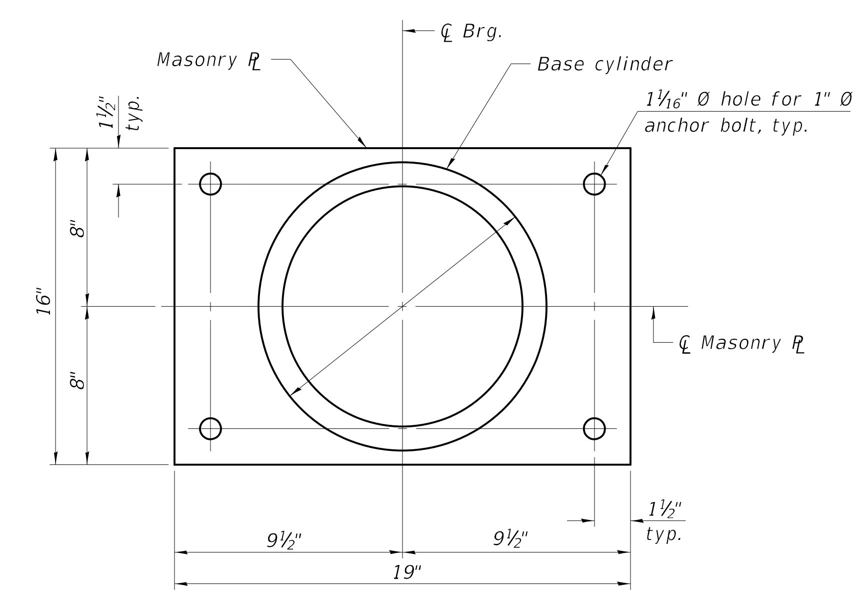
FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DES PLAINES RIVER TRAIL BEARING DETAILS – SPANS 1 AND 2	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	83
	PLOT SCALE =	DRAWN - PDR	REVISED -						CONTRACT NO. 61H87	
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 17 OF 27 SHEETS			ILLINOIS	FED. AID PROJECT	



FIXED HLMR (POT) BEARING



SOLE PLATE AND PISTON PLAN



MASONRY PLATE AND BASE CYLINDER PLAN

DESIGN DATA

Unfactored Vertical Dead Load Reaction (R_{DC})	156 kips
Unfactored Vertical Wearing Surface Reaction (R_{DW})	– kips
Unfactored Vertical Live Load w/o Impact Reaction (R_{LL})	99 kips
Max. Fact. Strength or Extreme Event Limit State Lateral Design Reaction (H_u)	52 kips
Max. Fact. Strength Limit State Design Rotation (Θ_u)	0.003 rad
Unfactored Design Thermal Movement from 50° F (ΔT)	0.003 in.

NOTES:

1. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.

2. If base cylinder is recessed into the bottom bearing plate, the designed thickness of the bottom plate shall take into account the depth of the recess.

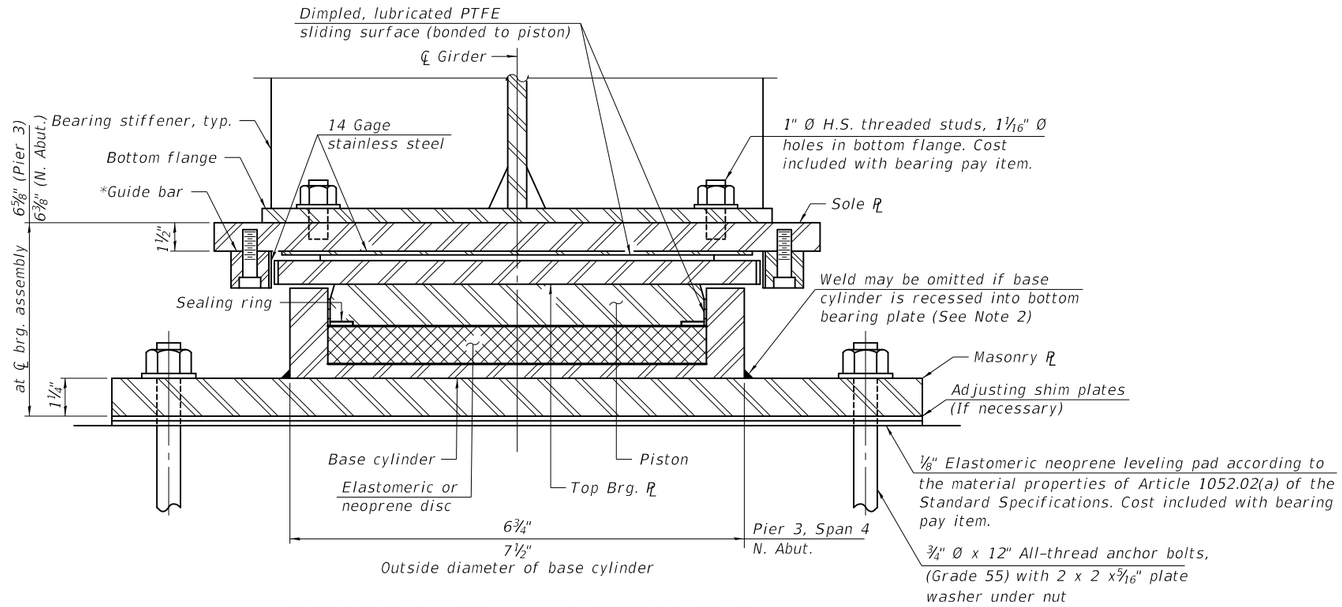
3. All bearing plates, H.S. studs, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable.

4. The θ_u values listed in the Design Data include the effects of profile grade, maximum factored strength load combination dead and live load rotations, a tolerance rotation of 0.005 rad. and an uncertainty allowance of 0.005 rad.

5. Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational (Pot) Bearings, Fixed-250k	Each	2
Anchor Bolts, 1"	Each	8

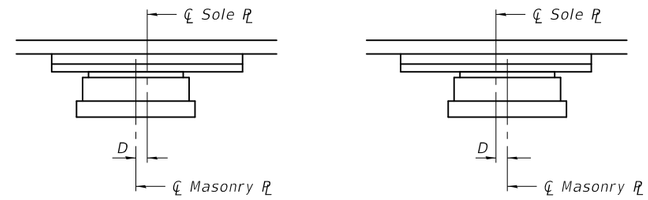


GUIDED EXPANSION HLMR (POT) BEARING

*As alternates to the bolted connection shown, the guide bars may be connected to the sole plate by groove welds or the guide bars and sole plate may be fabricated as a single piece.

DESIGN DATA

	Unit	Pier 3	N. Abut.
Unfactored Vertical Dead Load Reaction (R_{DC})	kips	34	47
Unfactored Vertical Wearing Surface Reaction (R_{DW})	kips	—	—
Unfactored Vertical Live Load w/o Impact Reaction (R_{LL})	kips	36	47
Max. Fact. Strength or Extreme Event Limit State Lateral Design Reaction (H_u)	kips	19	19
Max. Fact. Strength Limit State Design Rotation (Θ_u)	rad	0.004	0.002
Unfactored Design Thermal Movement from 50° F (ΔT)	in.	1/2	1/2

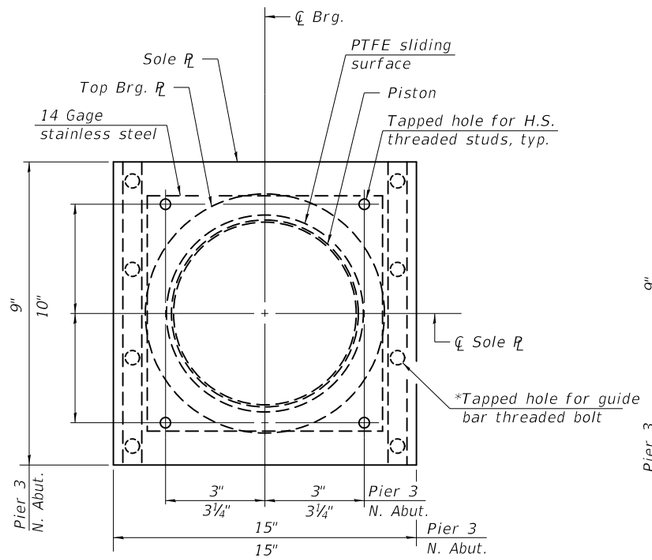


BELOW 50°F.
(Move bottom bearing PL away from fixed bearing)

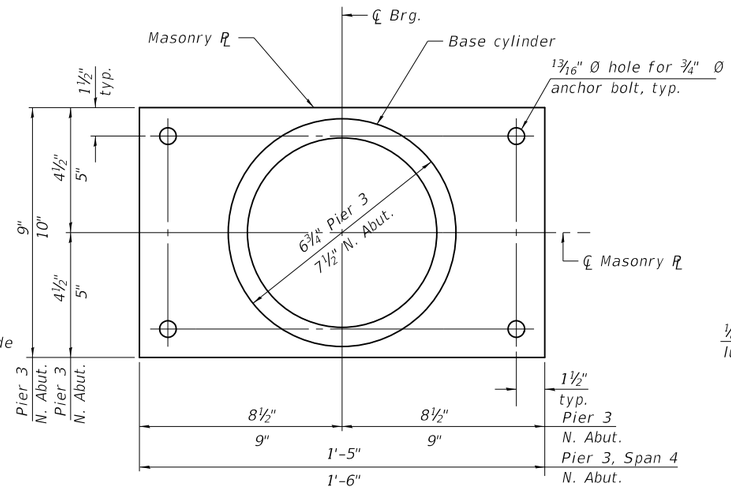
ABOVE 50°F.
(Move bottom bearing PL toward fixed bearing)

SETTING ANCHOR BOLTS AT EXPANSION BEARING

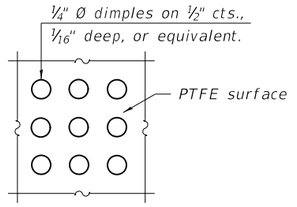
$D = \frac{1}{8}$" per each 100' of expansion for every 15' temp. change from the normal temp. of 50° F.



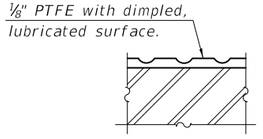
SOLE PLATE AND PISTON PLAN



MASONRY PLATE AND BASE CYLINDER PLAN



PLAN-PTFE SURFACE



SECTION THRU PTFE

NOTES:

1. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.
2. If base cylinder is recessed into the bottom bearing plate, the designed thickness of the bottom plate shall take into account the depth of the recess.
3. All bearing plates, H.S. studs, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable.
4. The θ_u values listed in the Design Data include the effects of profile grade, maximum factored strength load combination dead and live load rotations, a tolerance rotation of 0.005 rad. and an uncertainty allowance of 0.005 rad.
5. Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

BILL OF MATERIAL

Item	Unit	Total
High Load Multi-Rotational Bearings, Guided Expansion, 75k	Each	2
High Load Multi-Rotational Bearings, Guided Expansion, 100k	Each	2
Anchor Bolts, 3/4" ○	Each	16

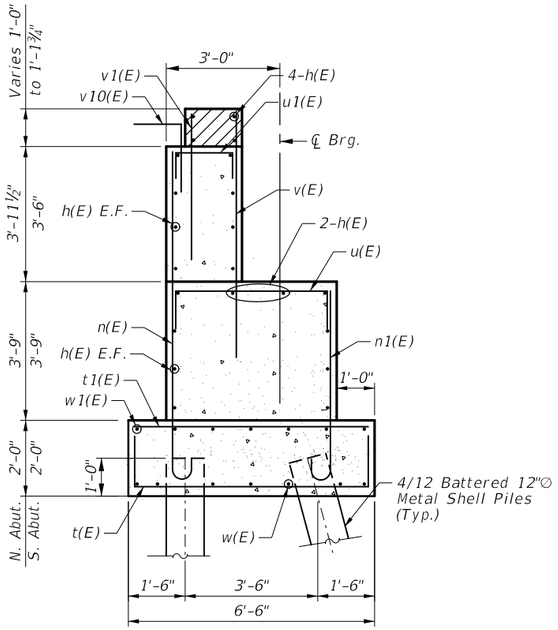
N:\COOK COUNTY FPD\2008\48.00824\Structs\19-200848.00824-Bearing-Detail-02.dnt

FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

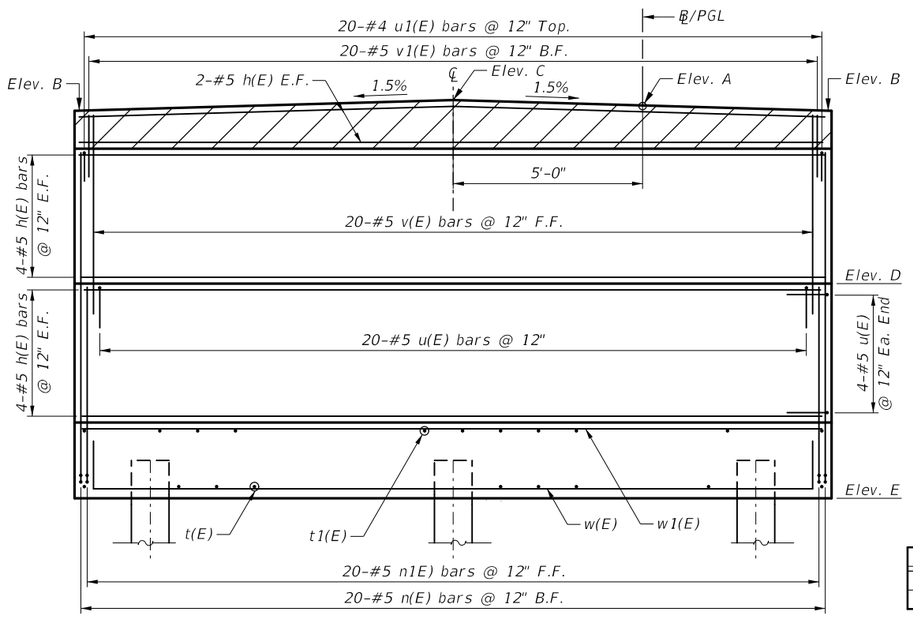
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL
BEARING DETAILS – N. ABUTMENT AND PIER 3
SHEET NO. 19 OF 27 SHEETS

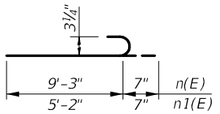
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	85
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



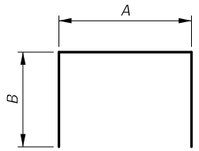
SECTION THRU ABUTMENT



ELEVATION



BAR n(E) & n1(E)



Bar	A	B
t(E)	6'-2"	1'-6"
u(E)	4'-2"	10"
u1(E)	1'-8"	9"
w(E)	19'-8"	1'-6"

BILL OF MATERIAL

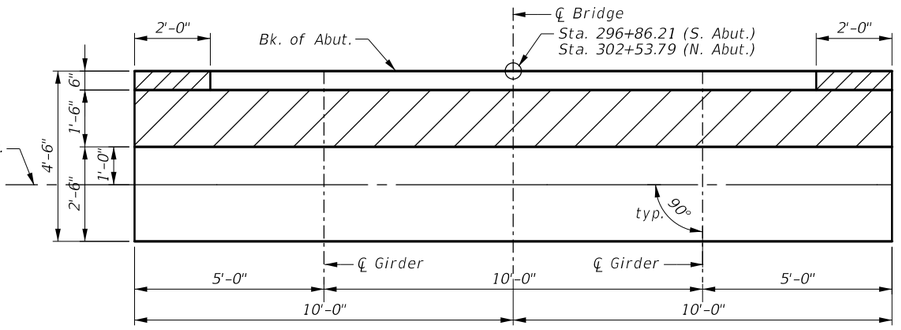
(FOR EACH ABUTMENT)

	Bar	No.	Size	Length	Shape
	h(E)	22	#5	19'-8"	
*	n(E)	20	#5	9'-10"	
	n1(E)	20	#5	5'-9"	
	u(E)	28	#5	5'-10"	
	u1(E)	20	#4	3'-2"	
	v(E)	20	#5	7'-6"	
	v1(E)	20	#5	3'-6"	
	v10(E)	20	#4	4'-0"	
	t(E)	20	#6	9'-2"	
	t1(E)	20	#5	6'-2"	
	w(E)	7	#6	22'-8"	
	w1(E)	7	#5	19'-8"	
	Structure Excavation		Cu. Yd.	40	
	Concrete Structures		Cu. Yd.	28.5 (S.) 29.2 (N.)	
	Reinforcement Bars, Epoxy Coated		Pound	2,060	
	Furnishing Metal Shell Piles, 12"x0.25"		Foot	125 (S.) 135 (N.)	
	Driving Piles		Foot	125 (S.) 135 (N.)	
	Test Pile Metal Shell		Each	1	

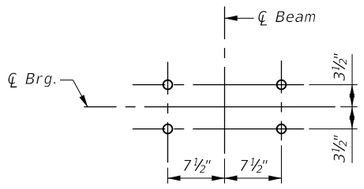
* Field Cut n(E) bars at South Abutment.

TABLE OF ELEVATIONS

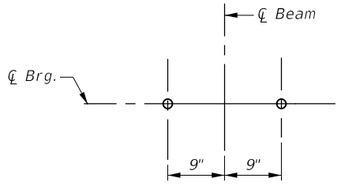
Location	A	B	C	D	E
S. Abut.	637.04	636.97	637.12	632.49	626.73
N. Abut.	637.05	636.97	637.12	632.01	626.26



TOP VIEW

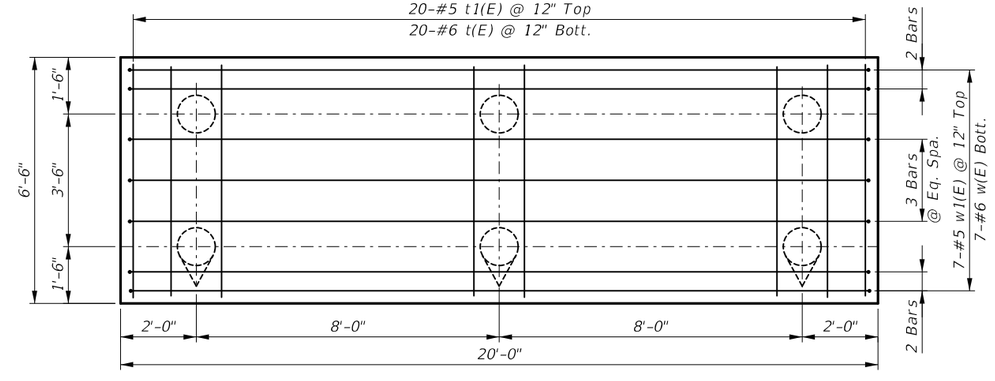


NORTH ABUTMENT

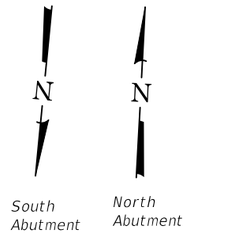


SOUTH ABUTMENT

ANCHOR BOLT LOCATION DETAIL

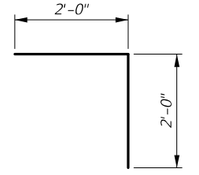


PLAN - PILE CAP



South Abutment

North Abutment



BAR v10(E)

PILE DATA

NORTH ABUTMENT

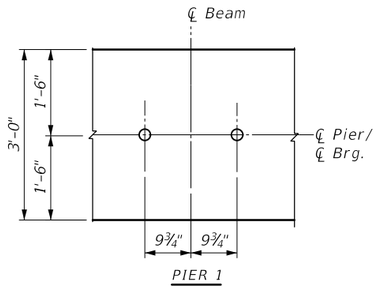
Type: Metal Shell Pile, 12"x0.25"
Nominal Required Bearing: 195 kip
Factored Resistance Available: 107 kip
Est. Length: 27
No. Production Piles: 5
No. Test Piles: 1

SOUTH ABUTMENT

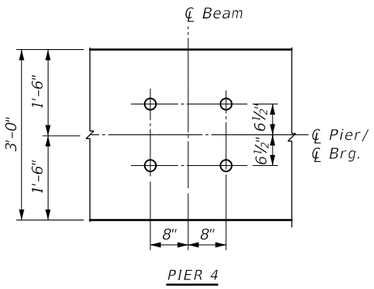
Type: Metal Shell Pile, 12"x0.25"
Nominal Required Bearing: 164 kip
Factored Resistance Available: 90 kip
Est. Length: 25
No. Production Piles: 5
No. Test Piles: 1

N:\COOK COUNTY FPD\200048.00\24A\Structure\20-200048.00\24A-Abutment-Detail.sht

FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DES PLAINES RIVER TRAIL ABUTMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	86
	PLOT SCALE =	DRAWN - PDR	REVISED -						CONTRACT NO. 61H87	
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 20 OF 27 SHEETS			ILLINOIS	FED. AID PROJECT	

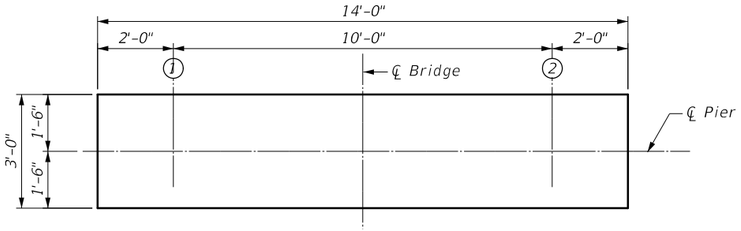


PIER 1

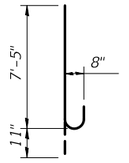


PIER 4

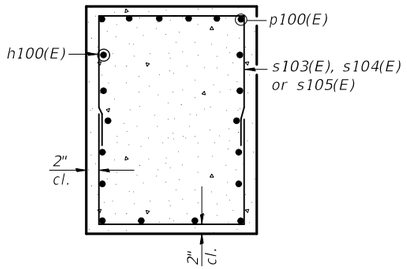
ANCHOR BOLT LOCATION



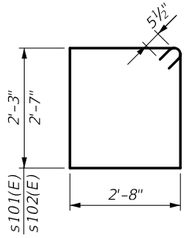
TOP PLAN



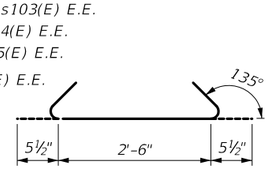
BAR n100(E)



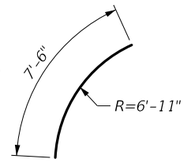
SECTION B-B



BARS s101(E) & s102(E)



BAR s106(E)



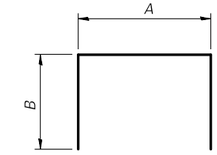
BAR v101(E)

BILL OF MATERIAL

(FOR EACH PIER)

Bar	No.	Size	Length	Shape
h100(E)	4	#5	13'-8"	
h101(E)	2	#5	11'-2"	
h102(E)	2	#5	9'-0"	
h103(E)	2	#5	7'-6"	
h104(E)	2	#5	6'-7"	
h105(E)	2	#5	6'-0"	
n100(E)	26	#8	8'-4"	
p100(E)	6	#9	13'-8"	
s100(E)	10	#5	9'-0"	
s101(E)	2	#5	10'-9"	
s102(E)	2	#5	11'-5"	
s103(E)	8	#5	8'-4"	
s104(E)	8	#5	10'-2"	
s105(E)	8	#5	12'-0"	
s106(E)	6	#5	3'-5"	
t100(E)	14	#8	11'-4"	
t101(E)	14	#5	6'-8"	
u100(E)	6	#5	9'-10"	
u101(E)	12	#5	11'-8"	
u102(E)	12	#5	6'-8"	
v100(E)	26	#8	8'-0"	
v101(E)	8	#6	7'-6"	
w100(E)	8	#8	17'-4"	
w101(E)	8	#5	12'-8"	
Structure Excavation		Cu. Yd.	35	
Concrete Structures		Cu. Yd.	18.7	
Reinforcement Bars, Epoxy Coated		Pound	3,350	
Furnishing Metal Shell PIles 12"x0.25"		Foot	150 (1) 250 (4)	
Driving Piles		Foot	150 (1) 250 (4)	
Test Pile, Metal Shell		Each	1	

Note: Number in parenthesis indicates Pier

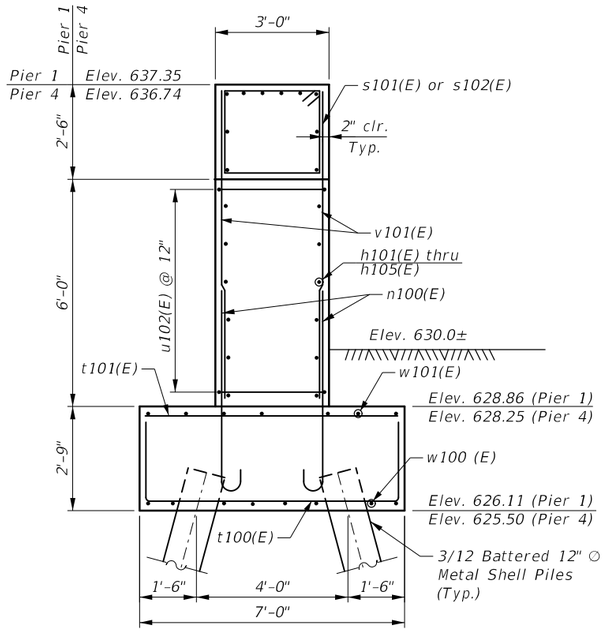


Bar	A	B
s100(E)	2'-8"	3'-2"
s103(E)	2'-8"	2'-10"
s104(E)	2'-8"	3'-9"
s105(E)	2'-8"	4'-8"
t100(E)	6'-8"	2'-4"
u100(E)	2'-8"	3'-7"
u101(E)	2'-8"	4'-6"
u102(E)	2'-8"	2'-0"
w100(E)	12'-8"	2'-4"

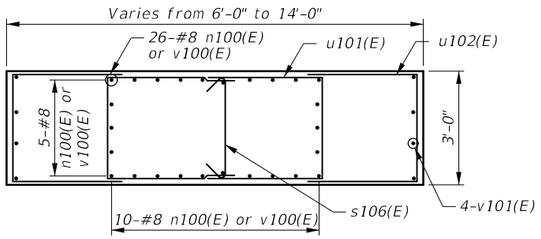
PILE DATA

	PIER 1	PIER 4
Type: Metal Shell Pile	Metal Shell Pile, 12"x0.25"	Metal Shell Pile, 12"x0.25"
Nominal Required Bearing:	220k	276k
Factored Resistance Available	121k	152k
Est. Length:	30 Feet	50 Feet
No. Production Piles:	5	5
No. Test Piles:	1	1

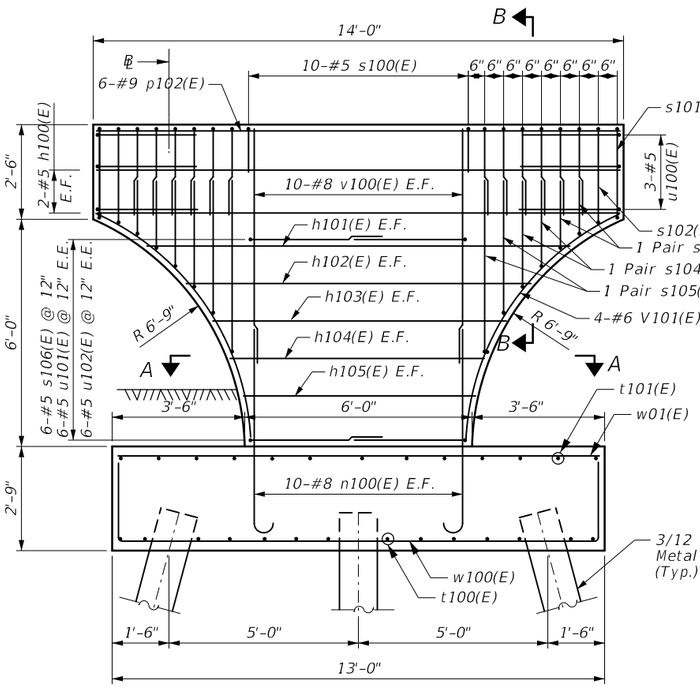
NOTE: Space Reinforcement in Cap to Miss Anchor Bolts.
E.E. = Each End, E.F. = Each Face



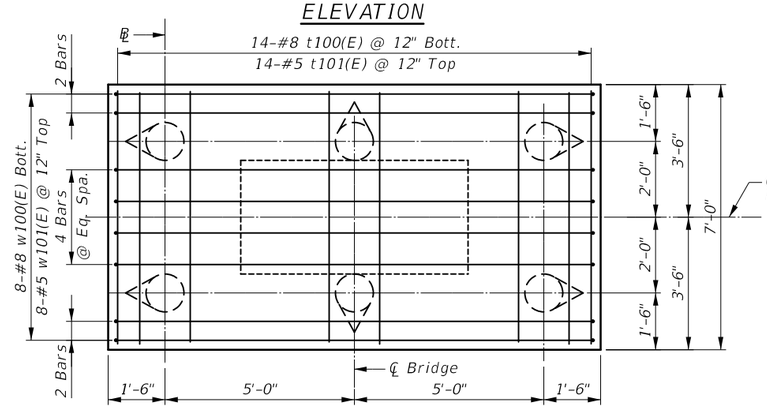
END VIEW



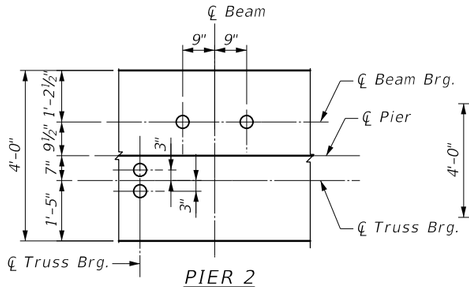
SECTION A-A



ELEVATION

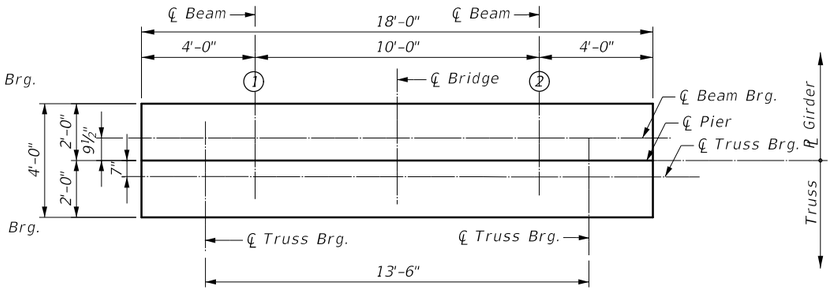


FOOTING PLAN

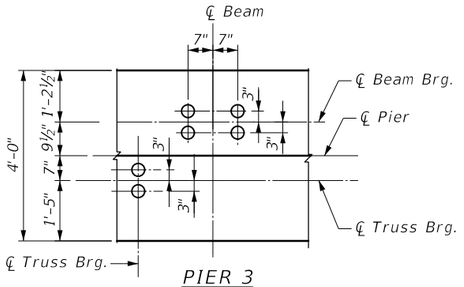


PIER 2

ANCHOR BOLT LOCATION

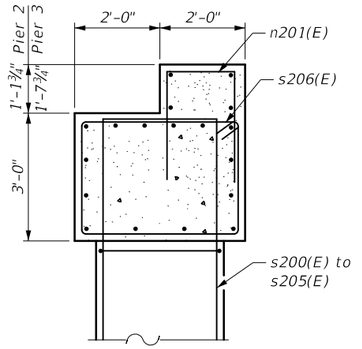


TOP PLAN

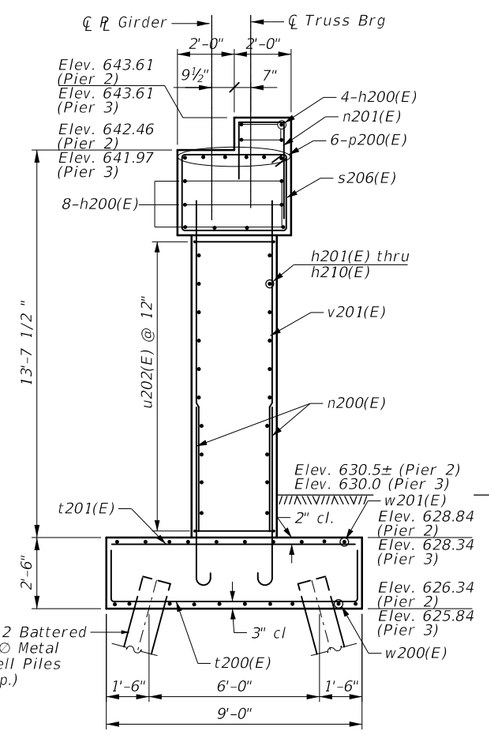


PIER 3

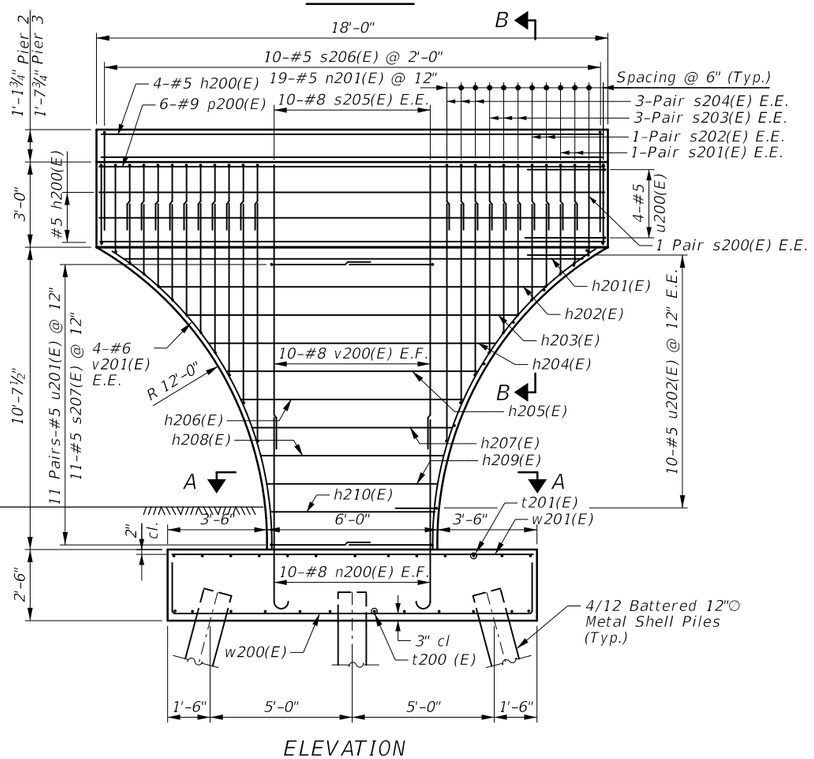
ANCHOR BOLT LOCATION



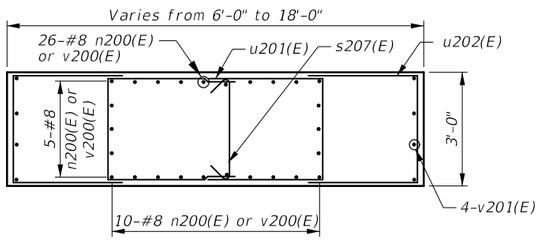
SECTION B-B



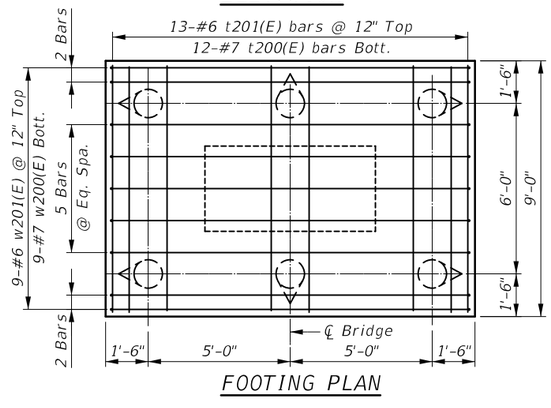
END VIEW



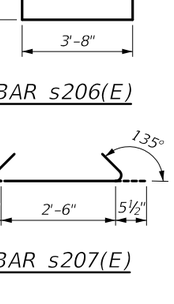
ELEVATION



SECTION A-A

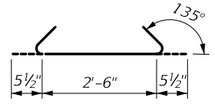


FOOTING PLAN

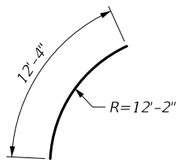


BAR n200(E)

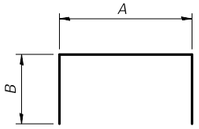
BAR s206(E)



BAR s207(E)



BAR v201(E)



Bar	A	B
n201 (E)	1-8"	3'-0"
s200 (E)	2'-8"	3'-1"
s201 (E)	2'-8"	3'-6"
s202 (E)	2'-8"	4'-0"
s203(E)	2'-8"	4'-11"
s204 (E)	2'-8"	6'-8"
s205 (E)	2'-8"	4'-10"
t200 (E)	8'-8"	2'-2"
u200 (E)	3'-8"	3'-7"
u201 (E)	2'-8"	4'-6"
u202 (E)	2'-8"	2'-0"
w200 (E)	12'-8"	2'-2"

BILL OF MATERIAL

(FOR EACH PIER)

Bar	No.	Size	Length	Shape
h200(E)	12	#5	17'-8"	
h201(E)	2	#5	16'-10"	
h202(E)	2	#5	14'-2"	
h203(E)	2	#5	12'-1"	
h204(E)	2	#5	10'-5"	
h205(E)	2	#5	9'-1"	
h206(E)	2	#5	8'-0"	
h207(E)	2	#5	7'-2"	
h208(E)	2	#5	6'-6"	
h209(E)	2	#5	6'-1"	
h210(E)	2	#5	5'-10"	
n200(E)	26	#8	8'-2"	
n201(E)	19	#5	7'-8"	
p200(E)	6	#9	17'-8"	
s200(E)	4	#5	8'-8"	
s201(E)	8	#5	9'-8"	
s202(E)	8	#5	10'-8"	
s203(E)	12	#5	12'-6"	
s204(E)	12	#5	16'-0"	
s205(E)	10	#5	12'-4"	
s206(E)	10	#5	13'-7"	
s207(E)	11	#5	3'-5"	
t200(E)	12	#7	13'-0"	
t201(E)	13	#6	8'-8"	
u200(E)	8	#5	10'-10"	
u201(E)	22	#5	11'-8"	
u202(E)	20	#5	6'-8"	
v200(E)	26	#8	13'-0"	
v201(E)	8	#5	12'-4"	
w200(E)	9	#7	17'-0"	
w201(E)	9	#6	12'-8"	
Structure Excavation		Cu. Yd.	35	
Concrete Structures		Cu. Yd.	31.5	
Reinforcement Bars, Epoxy Coated		Pound	4,850	
Furnishing Metal Shell PIles, 12"x0.25"		Foot	145 (2) 185 (3)	
Driving Piles		Foot	145 (2) 185 (3)	
Test Pile Metal Shells		Each	1	

PILE DATA

	PIER 2	PIER 3
Type: Metal Shell Pile	Metal Shell Pile, 12"x0.25"	Metal Shell Pile, 12"x0.25"
Nominal Required Bearing:	224k	236k
Factored Resistance Available	123k	130k
Est. Length:	29 Feet	37 Feet
No. Production Piles:	5	5
No. Test Piles:	1	1

Notes: Number in parenthesis indicates Pier.
Space reinforcement in cap to miss Anchor Bolts.
E.E. = Each End, E.F. = Each Face

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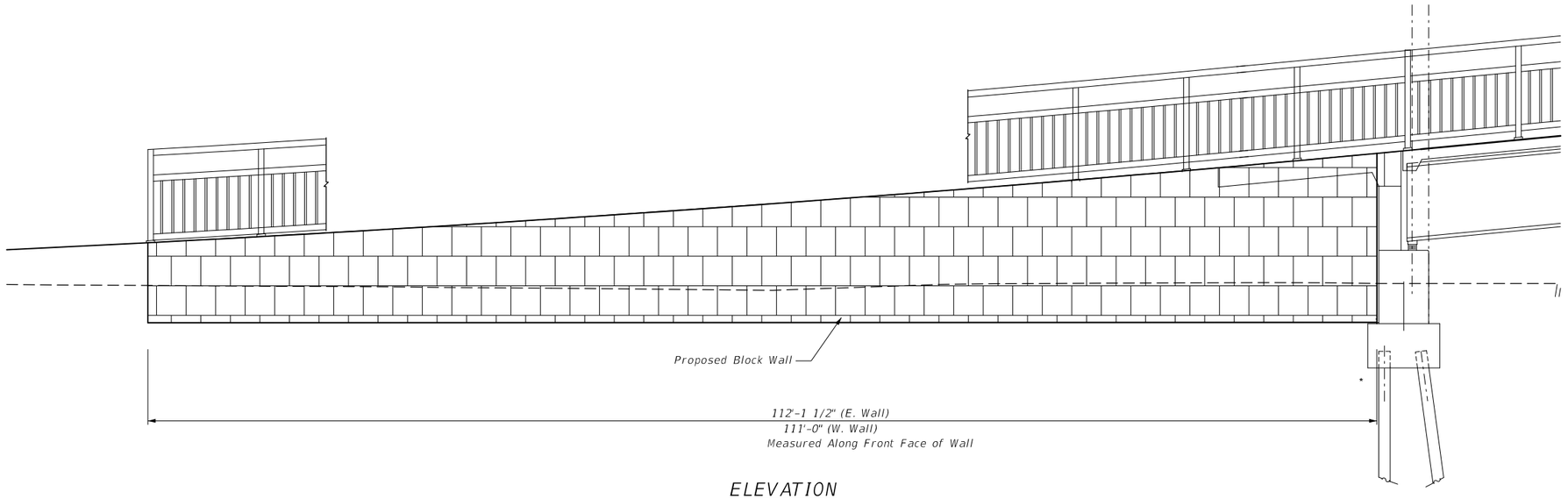
FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

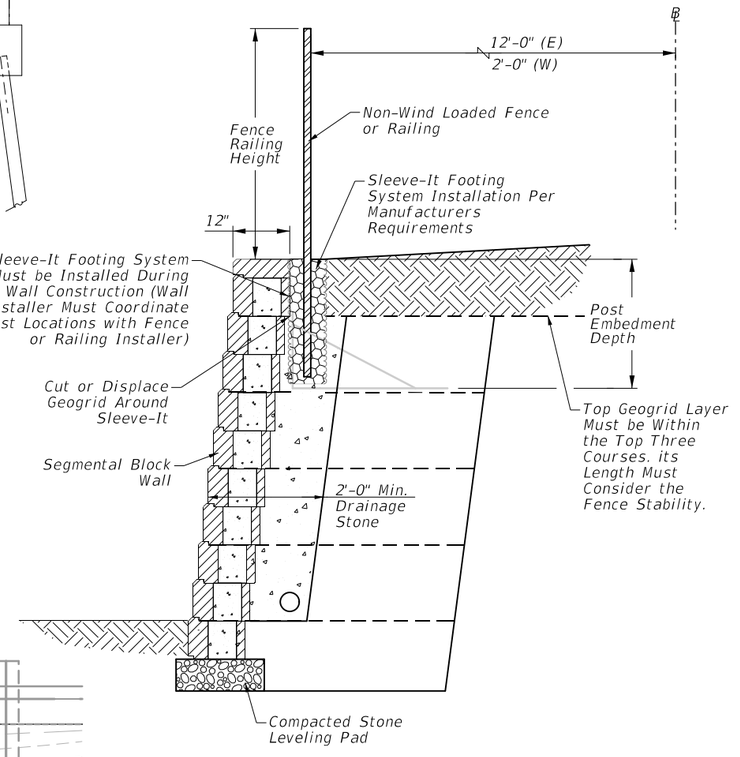
DES PLAINES RIVER TRAIL
PIER 2 AND 3

SHEET NO. 22 OF 27 SHEETS

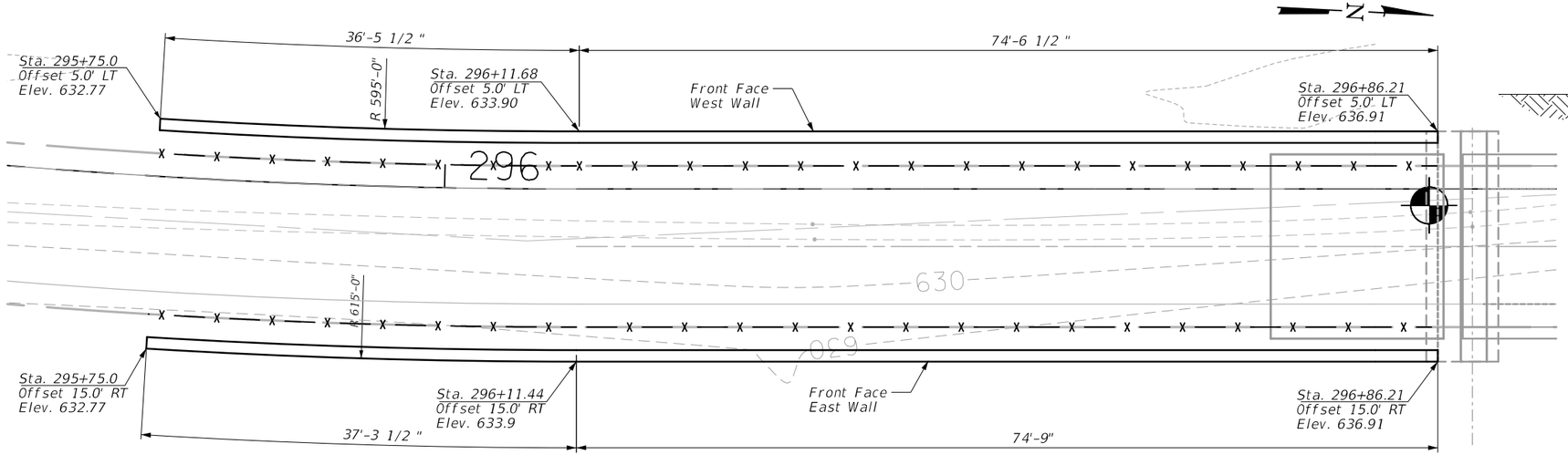
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	88
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	



ELEVATION



TYPICAL BLOCK WALL SECTION



PLAN

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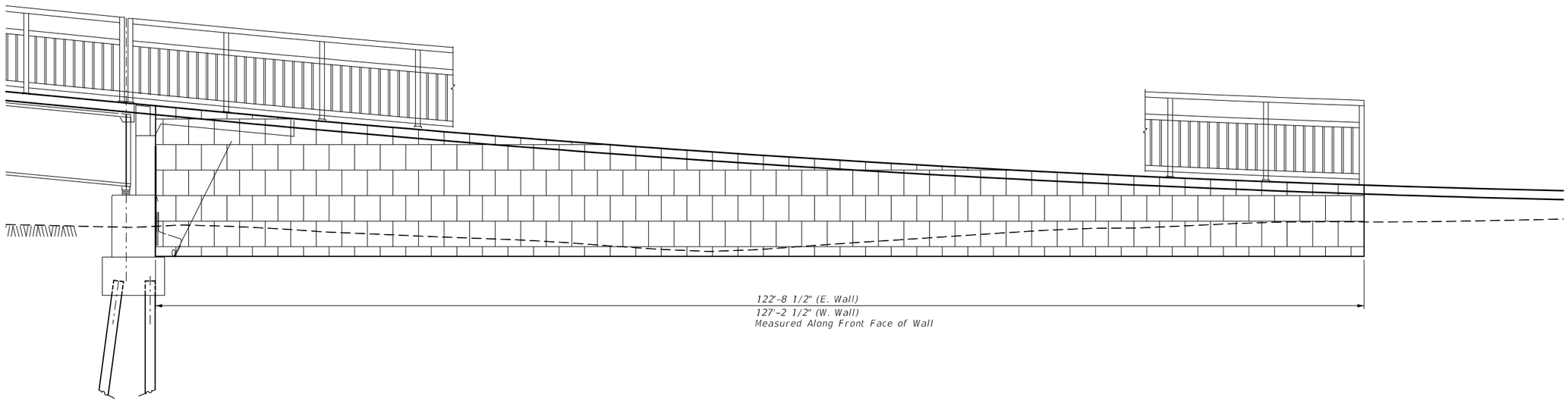
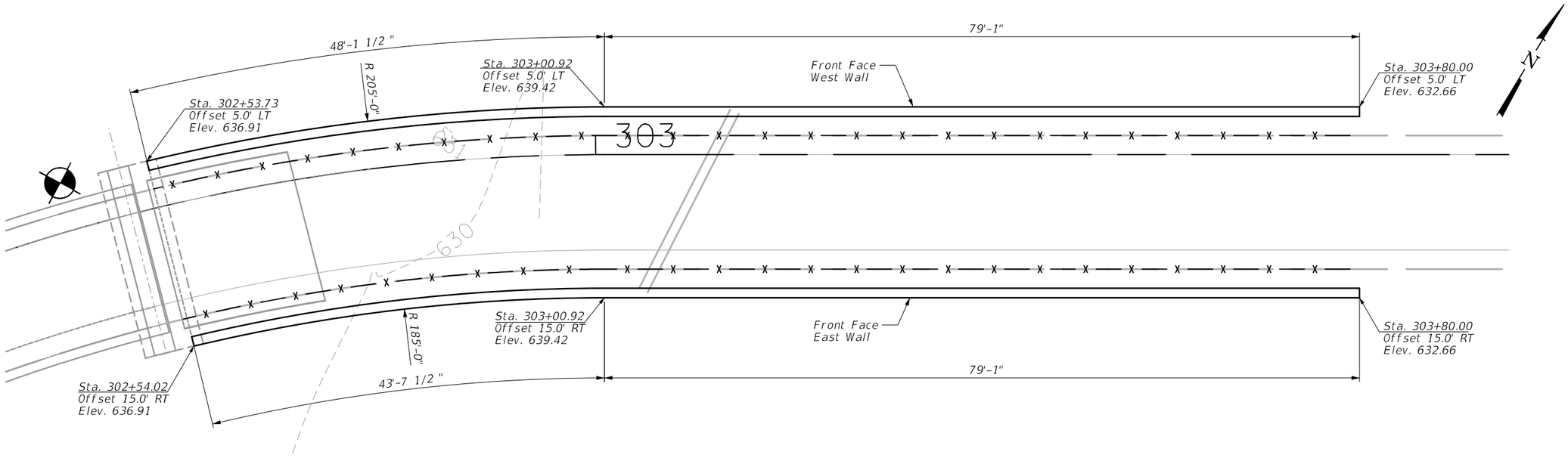
FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DES PLAINES RIVER TRAIL PROPOSED BLOCK WALL – SOUTH APPROACH	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	89
	PLOT SCALE =	DRAWN - PDR	REVISED -						CONTRACT NO. 61H87	
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 23 OF 27 SHEETS			ILLINOIS	FED. AID PROJECT	





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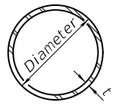
FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -
		CHECKED - MM	REVISED -
	PLOT SCALE =	DRAWN - PDR	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

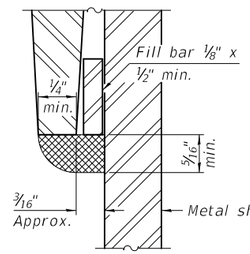
DES PLAINES RIVER TRAIL
PROPOSED BLOCK WALL – NORTH APPROACH
SHEET NO. 24 OF 27 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	90
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		

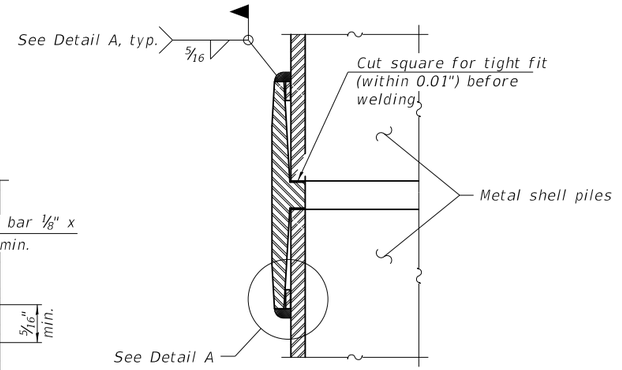


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

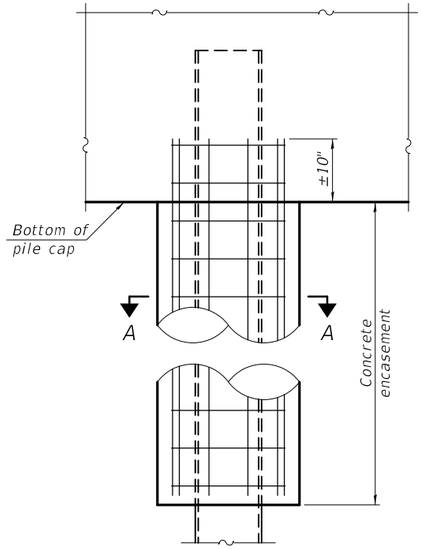


DETAIL A

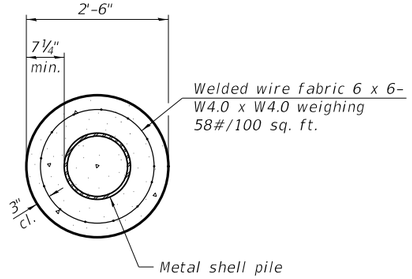


WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

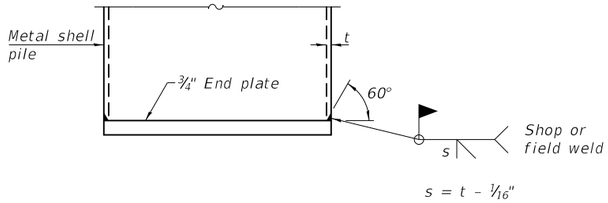


ELEVATION



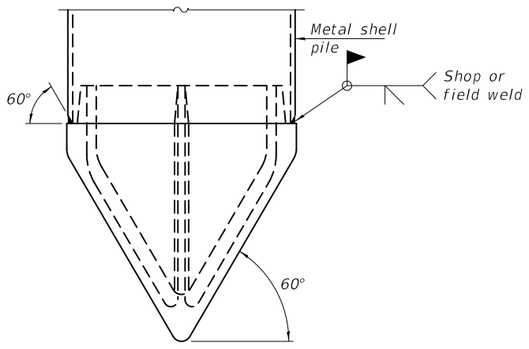
SECTION A–A

INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



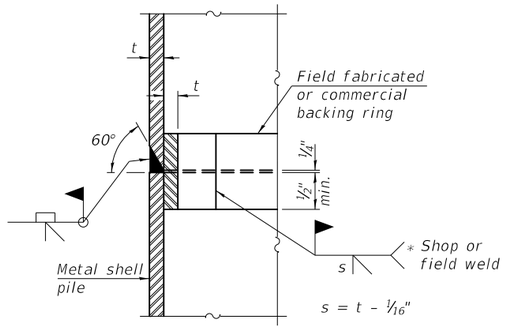
s = t – 1/16"

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

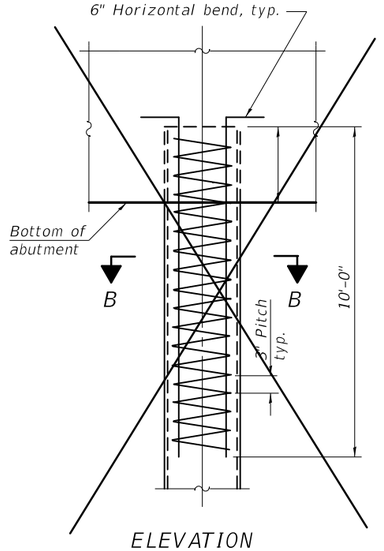
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



s = t – 1/16"

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



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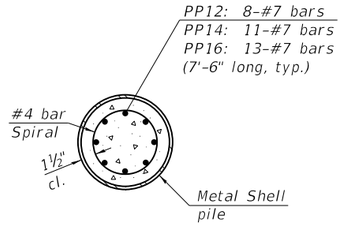

SECTION B-B

REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

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FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DES PLAINES RIVER TRAIL METAL SHELL PILE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	91
	PLOT SCALE =	DRAWN - PDR	REVISED -						CONTRACT NO. 61H87	
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 25 OF 27 SHEETS			ILLINOIS	FED. AID PROJECT	

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2 — Date Started 8/10/20 — Date Completed 8/10/20

ROUTE ______ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. ______ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION South Abutment S. NE15, TWP. 40N, RNG. 12E

Boring No. SB-1; Station Sta. 296+90; Offset ft; Surface Elev. 630.50 ft

Surface Water Elev. ______; Groundwater Elev.: when drilling 620.0; at Completion Rotary Wash; after ____ Hrs. ____

Description	Elev.	N Value	Qu tsf	W %
Black clayey TOPSOIL	630.20			
Hard to very stiff brown trace gray CLAY, trace gravel, moist A-7-6		8	B 4.26 15%	25.1
	625.00	12	P 3.25	28.3
Very stiff brown trace gray SILTY CLAY LOAM, trace gravel, occasional silt seams, moist A-6	622.50	14	B 3.21 15%	24.4
Medium dense brown SAND, trace gravel, moist A-1-b	620.00	14		12.2
Very stiff to hard gray SILTY CLAY, trace gravel, moist A-6		18	B 3.08 15%	19.7
		15	P 3.0	19.5
	612.50	16	B 4.00 15%	19.0
Stiff gray CLAY LOAM, trace gravel, moist to very moist A-6		11	P 1.5	18.9
	607.50	9	B 1.62 15%	18.4
Very stiff to hard gray CLAY LOAM, trace gravel, moist A-6		17	P 3.0	17.9
	602.50	15	B 4.5+ 15%	18.4
Medium dense gray SILTY LOAM, moist A-4		27		15.5
	593.50	29		16.1
Very dense gray SANDY LOAM, trace gravel, occasional Cobbles and Boulders, moist A-2-4		29		9.8
	583.50	32		11.9
Hard gray SILTY CLAY LOAM, trace gravel, occasional Cobbles and Boulders, moist A-6		34	B 5.90 15%	10.8

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 2 — Date Started 8/10/20 — Date Completed 8/10/20

STRUCTURE NO. ______; ROUTE ______; SECTION 17-00034-00-BT; COUNTY Cook

Boring No. SB-1; Station Sta. 296+90; Offset ft; Elevation 580.50 ft

Description	Elev.	N Value	Qu tsf	W %
Hard gray SILTY CLAY LOAM, trace gravel, occasional Cobbles and Boulders, moist A-6		36	P 4.5+	11.4
		28	B 6.23 15%	13.1
		73	P 4.0	9.4
	560.50	82	P 4.5+	9.1
End of Boring at 70.0'				

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2 — Date Started 8/11/20 — Date Completed 8/11/20

ROUTE ______ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. ______ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION Pier 2 S. NE15, TWP. 40N, RNG. 12E

Boring No. SB-2; Station Sta. 297+95; Offset ft; Surface Elev. 631.00 ft

Surface Water Elev. ______; Groundwater Elev.: when drilling 620.5; at Completion Rotary Wash; after ____ Hrs. ____

Description	Elev.	N Value	Qu tsf	W %
Black clayey TOPSOIL	630.50			
Hard to very stiff brown trace gray SILTY CLAY, trace gravel, occasional silt seams, moist A-6		12	P 4.5+	20.6
		13	B 2.81 15%	21.7
	624.00	13	B 2.81 15%	24.0 / 21.3
Medium dense brown trace gray SILTY LOAM, moist A-4	623.00			
Stiff brown and gray SILTY CLAY LOAM, occasional silt seams, very moist A-6	621.50	9	P 1.25	28.4 / 16.2
Medium dense gray SAND, trace gravel, wet A-1-b	618.00	8		17.9
Very stiff gray CLAY, trace gravel, moist A-6	615.50	15	B 2.94 15%	19.7
Very stiff to stiff gray SILTY CLAY, trace gravel, moist A-6		14	P 2.75	15.0
	610.50	13	P 1.75	13.1
Medium dense gray SILTY LOAM, very moist A-4	608.00	12		17.1
Very stiff gray SILTY CLAY, trace gravel, moist A-6		13	B 2.94 15%	14.1
Very stiff gray SILTY CLAY, trace gravel, moist A-6	603.00	13	P 3.0	14.7
Medium dense gray SILTY LOAM, very moist A-4		25		16.4
		26		14.5
	589.00	29		12.5
Very stiff to hard gray SILTY CLAY LOAM, trace gravel, moist A-6		32	B 3.08 15%	12.1
		57	P 4.5+	11.8

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 2 — Date Started 8/11/20 — Date Completed 8/11/20

STRUCTURE NO. ______; ROUTE ______; SECTION 17-00034-00-BT; COUNTY Cook

Boring No. SB-2; Station Sta. 297+95; Offset ft; Elevation 581.00 ft

Description	Elev.	N Value	Qu tsf	W %
Very stiff to hard gray SILTY CLAY LOAM, trace gravel, moist A-6	574.00	58	B 3.54 15%	12.3
Very stiff gray SILTY CLAY, trace gravel, occasional silt seams, moist A-6		22	P 3.0	25.7
	564.00	23	B 3.60 15%	23.4
Hard gray SILTY CLAY LOAM, moist A-6	561.00	48	P 4.5+	9.4
End of Boring at 70.0'				

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2 — Date Started 8/12/20 — Date Completed 8/12/20

ROUTE ______ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. ______ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION Pier 3 S. NE15, TWP. 40N, RNG. 12E

Boring No. SB-3; Station Sta. 299+00; Offset ft; Surface Elev. 635.50 ft

Surface Water Elev. ______; Groundwater Elev.: when drilling 625.0; at Completion Rotary Wash; after ____ Hrs. ____

Description	Elev.	N Value	Qu tsf	W %
FILL - Black clayey TOPSOIL	634.90			
FILL - Brown trace gray SILTY CLAY, trace gravel, moist A-6	632.50	15	P 4.5+	11.4
Very stiff brown trace gray CLAY LOAM, trace gravel, moist A-6	630.00	11	P 3.0	14.9
Medium dense brown trace gray SILTY LOAM, moist A-4	627.50	10		27.7
Medium dense brown and gray SAND and GRAVEL, moist to wet A-1	625.00	12		9.5
Medium dense gray SAND, wet A-1-b	622.50	11		23.5
Very stiff gray SILTY CLAY, trace gravel, moist A-6		11	B 2.5 15%	19.6
		13	B 2.81 15%	21.2
		11	B 3.64 15%	25.2
	612.50	12	P 2.25	25.4
Stiff gray CLAY, trace gravel, occasional sand seams, very moist A-6	610.00	9	B 1.34 15%	21.3
Very stiff gray SILTY CLAY, trace gravel, moist A-6		11	B 3.00 15%	16.7
		16	B 3.45 15%	19.9
	598.50	15	B 4.41 15%	19.4
Medium dense gray SILTY LOAM, very moist A-4		23		20.2
	588.50	22		19.3
Hard gray CLAY LOAM, little gravel, moist A-6		22	B 6.0 15%	12.5

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 2 — Date Started 8/12/20 — Date Completed 8/12/20

STRUCTURE NO. ______; ROUTE ______; SECTION 17-00034-00-BT; COUNTY Cook

Boring No. SB-3; Station Sta. 299+00; Offset ft; Elevation 585.50 ft

Description	Elev.	N Value	Qu tsf	W %
	578.50	25	B 4.5+ 15%	12.9
Hard gray SILTY CLAY, trace gravel, moist A-6		31	B 4.09 15%	24.3
	568.50	32	B 3.96 15%	22.8
Hard gray SILTY CLAY LOAM, little gravel, moist A-6	565.50	75	B 4.73 15%	11.0
End of Boring at 70.0'				

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2 — Date Started 8/26/20 — Date Completed 8/26/20

ROUTE ______ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. ______ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION Pier 4 S. NE15, TWP. 40N, RNG. 12E

Boring No. SB-4; Station Sta. 300+15; Offset ft; Surface Elev. 630.00 ft

Surface Water Elev. ______; Groundwater Elev.: when drilling 622.0; at Completion Rotary Wash; after ____ Hrs. ____

Description	Elev.	N Value	Qu tsf	W %
Black clayey TOPSOIL	629.50			
Hard brown trace gray SILTY CLAY, trace gravel, occasional sand seams, moist A-6		13	P 4.5+	21.4
	624.50	24	P 4.5+	18.2
Stiff brown and gray CLAY, trace gravel, very moist A-7-6	622.00	13	B 1.53 15%	29.0
Medium dense gray SAND and GRAVEL, wet to saturated A-1		16		12.1
	617.00	10		19.6
Very stiff to stiff gray CLAY LOAM, trace gravel, occasional sand and silt seams, moist A-6		10	B 1.94 15%	14.0
		10	B 1.43 15%	14.3
	609.50	10	P 2.0	15.1
Stiff to very stiff gray CLAY, trace gravel, very moist to moist A-6		12	B 1.60 15%	25.4
	605.00	14	P 2.0	20.6
Very stiff gray CLAY LOAM, trace gravel, moist A-6	602.00	13	B 2.92 15%	12.7
Very stiff gray SILTY CLAY, trace gravel, occasional silt seams, moist A-6		21	P 3.25	20.7
		21	B 2.82 15%	22.9
	588.00	23	P 3.25	19.6
Medium dense gray SAND, trace gravel, wet A-1-b	583.00	26		10.9
Hard gray SILTY CLAY LOAM, occasional sand seams, occasional Cobbles and Boulders, moist A-6		25	P 4.5+	13.7

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 2 — Date Started 8/26/20 — Date Completed 8/26/20

STRUCTURE NO. ______; ROUTE ______; SECTION 17-00034-00-BT; COUNTY Cook

Boring No. SB-4; Station Sta. 300+15; Offset ft; Elevation 580.00 ft

Description	Elev.	N Value	Qu tsf	W %
Hard gray SILTY CLAY LOAM, occasional sand seams, occasional Cobbles and Boulders, moist A-6		42	B 5.77 15%	12.0
		30	P 4.5+	12.5
		61	P 4.5+	10.2
	560.00	106/5"	P 4.5+	9.2
End of Boring at 70.0'				

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Date Started 8/27/20

Date Completed 8/27/20

ROUTE _____ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. _____ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION Pier 5 S. NE15 , TWP. 40N , RNG. 12E

Boring No. SB-5
Station Sta. 301+35
Offset ft
Surface Elev. 630.00 ft

DEPTH	N Value	Qu tsf	W %
Black clayey TOPSOIL 629.50			
Hard brown trace gray SILTY CLAY, trace gravel, moist A-6	15	B 5.83 15%	18.4
	12	P 4.5+	23.4
624.50			
Medium dense brown and gray SILTY LOAM, moist A-4	17		20.1
622.00			
Medium dense gray SAND, trace gravel wet to saturated A-1-b	12		
618.00	11	B 1.66 15%	20.4
Stiff gray SILTY CLAY, trace gravel, moist to very moist A-6	13	B 1.28 15%	20.8
614.50			
Medium dense gray SAND, little gravel, occasional Cobbles, wet A-1-b	34		
612.00			
Stiff gray SILTY CLAY LOAM, trace gravel, moist to very moist A-6	13	B 1.79 15%	17.2
607.00	12	B 1.53 15%	16.5
Very siff to stiff gray SILTY CLAY, trace gravel, moist A-6	21	B 3.39 15%	16.9

Surface Water Elev. _____
Groundwater Elev.: when drilling 622.0
at Completion Rotary Wash
after _____ Hrs.

DEPTH	N Value	Qu tsf	W %
Very siff to stiff gray SILTY CLAY, trace gravel, moist A-6	22	B 2.11 15%	18.3
	16	B 1.92 15%	20.0
598.00			
Dense to medium dense gray SILTY LOAM, occasional Cobbles very moist A-4	55		19.1
	11		20.7
588.00			
Very stiff to hard gray CLAY LOAM, trace to little gravel, moist A-6	21	P 3.0	14.4
	36	B 3.83 15%	12.3

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Date Started 8/27/20

Date Completed 8/27/20

STRUCTURE NO. _____
ROUTE _____
SECTION 17-00034-00-BT
COUNTY Cook

Boring No. SB-5
Station Sta. 301+35
Offset ft
Elevation 580.00 ft

DEPTH	N Value	Qu tsf	W %
Very stiff to hard gray CLAY LOAM, trace to little gravel, moist A-6	35	B 5.75 15%	10.8
	34	B 4.92 15%	21.2
568.00			
Hard gray SILTY CLAY LOAM, little gravel, moist A-6	61	B 4.95 15%	9.3
563.00			
Very dense gray SANDY LOAM, little gravel, very moist A-2-4	76		7.2
560.00			
End of Boring at 70.0'			

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Date Started 8/28/20

Date Completed 8/28/20

ROUTE _____ DESCRIPTION Pedestrian Bridge over Lawrence Avenue

SECT. 17-00034-00-BT STRUCT. NO. _____ DRILLED BY TSC/L-91,422

COUNTY Cook LOCATION North Abutment S. NE15 , TWP. 40N , RNG. 12E

Boring No. SB-6
Station Sta. 302+50
Offset ft
Surface Elev. 630.50 ft

DEPTH	N Value	Qu tsf	W %
Black clayey TOPSOIL 630.00			
Hard brown SILTY CLAY, trace gravel, moist A-6	20	B 4.66 15%	16.1
627.50			
Medium dense brown SILTY LOAM, moist A-4	14		20.7
625.00			
Medium dense brown and gray SAND, little gravel, moist to very moist A-1-b	9		
622.50			
Medium dense gray SAND, little gravel, wet to saturated A-1-b	13		
	18		
617.50			
Very stiff gray SILTY CLAY, little grave, moist A-6	12	B 2.28 15%	18.2
	14	B 2.81 15%	18.6
612.50			
Very stiff to stiff gray CLAY LOAM, little gravel, moist A-6	17	B 2.94 15%	10.9
	20	B 1.75 15%	11.9
607.50			
Hard gray SILTY CLAY, little gravel, moist A-6	22	B 5.06 15%	18.0

Surface Water Elev. _____
Groundwater Elev.: when drilling 622.5
at Completion Rotary Wash
after _____ Hrs.

DEPTH	N Value	Qu tsf	W %
Hard gray SILTY CLAY, little gravel, moist A-6	20	B 5.19 15%	18.1
	21	B 7.89 15%	17.7
598.50			
Dense to medium dense gray SILTY LOAM, occasional Cobbles, very moist A-4	54		21.6
	13		24.9
588.50			
Hard gray CLAY LOAM, little gravel, moist A-6	22	P 4.5+	12.0
	38	P 4.5+	12.5

SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

Testing Service Corporation

STRUCTURE BORING LOG

Date Started 8/28/20

Date Completed 8/28/20

STRUCTURE NO. _____
ROUTE _____
SECTION 17-00034-00-BT
COUNTY Cook

Boring No. SB-6
Station Sta. 302+50
Offset ft
Elevation 580.50 ft

DEPTH	N Value	Qu tsf	W %
Hard gray CLAY LOAM, little gravel, moist A-6	33	B 8.22 15%	11.7
573.50			
Hard gray SILTY CLAY LOAM, little gravel, moist A-6	34	B 6.23 15%	21.4
	61	P 4.5+	9.8
563.50			
Very dense gray SANDY LOAM, little gravel, very moist A-2-4	80		9.2
560.50			
End of Boring at 70.0'			

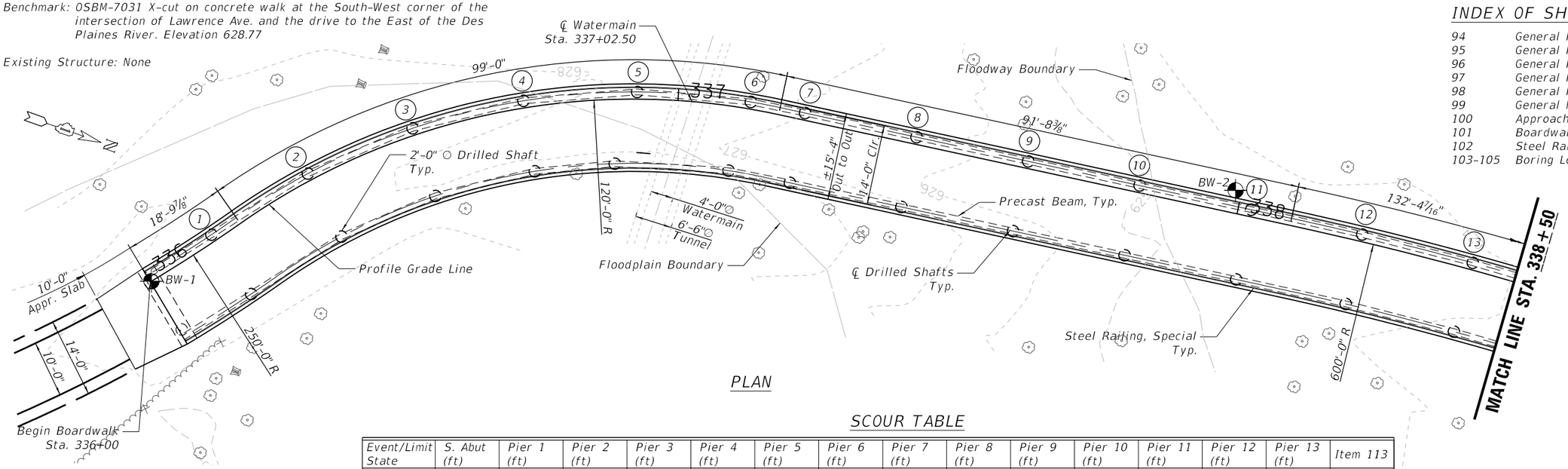
SPT. (N) = Sum of last two blow values in sample. (Qu) S=Shear, B=Bulge at 15% Strain, P=Penetration Test.
Stations, Depths, Offset, and Elevations are in Feet

N:\COOK COUNTY FPD\200848.00024h\Struct\27-200848.00024h-Boring-Logs-02.ehi

FILE NAME =	USER NAME =	DESIGNED - CF	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DES PLAINES RIVER TRAIL BORING LOGS**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MM	REVISED -			N/A	17-00034-00-BT	COOK	129	93
	PLOT SCALE =	DRAWN - PDR	REVISED -					CONTRACT NO. 61H87		
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 27 OF 27 SHEETS			ILLINOIS FED. AID PROJECT		

Benchmark: OSBM-7031 X-cut on concrete walk at the South-West corner of the intersection of Lawrence Ave. and the drive to the East of the Des Plaines River. Elevation 628.77

Existing Structure: None



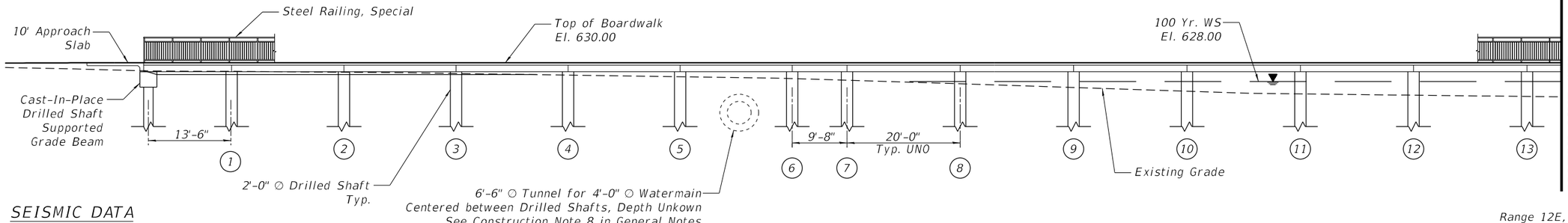
PLAN

INDEX OF SHEETS

94	General Plan & Elevation 1
95	General Plan & Elevation 2
96	General Plan & Elevation 3
97	General Plan & Elevation 4
98	General Plan & Elevation 5
99	General Notes & Bill of Materials
100	Approach Slab Details
101	Boardwalk Details
102	Steel Railing Details
103-105	Boring Logs

SCOUR TABLE

Event/Limit State	S. Abut (ft)	Pier 1 (ft)	Pier 2 (ft)	Pier 3 (ft)	Pier 4 (ft)	Pier 5 (ft)	Pier 6 (ft)	Pier 7 (ft)	Pier 8 (ft)	Pier 9 (ft)	Pier 10 (ft)	Pier 11 (ft)	Pier 12 (ft)	Pier 13 (ft)	Item 113
Q100	626.75	627.14	626.93	626.86	626.70	626.43	625.94	625.63	624.97	624.31	623.66	623.03	622.81	622.56	8
Q200	626.74	627.13	626.92	626.85	626.69	626.42	625.93	625.62	624.96	624.30	623.65	623.02	622.80	622.55	
Design	626.75	627.14	626.93	626.86	626.70	626.43	625.94	625.63	624.97	624.31	623.66	623.03	622.81	622.56	
Check	626.74	627.13	626.92	626.85	626.69	626.42	625.93	625.62	624.96	624.30	623.65	623.02	622.80	622.55	



ELEVATION

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.086g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.144g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Substructures)
f'c = 4,000 psi (Drilled Shafts and Approaches)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi

DESIGN LOADING

Uniform Live Load: 90 lb/sq. ft.
Vehicle Live Load: AASHTO H10

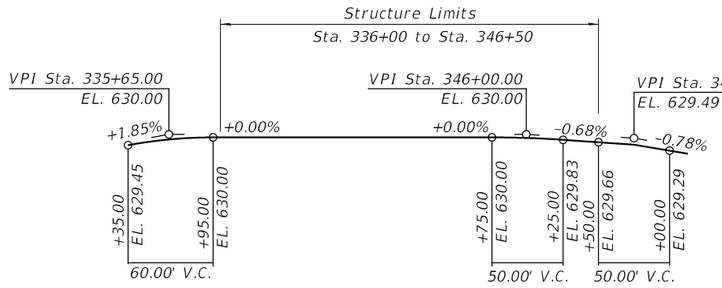
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition
2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges

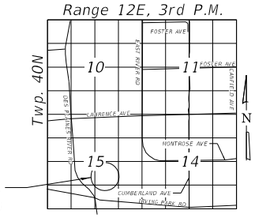
WATERWAY INFORMATION

Drainage Area = 1.77 sq. mi. Low Grade Elev. 630.00 @ Sta. 344+00

Flood	Freq. Yr.	Q C.F.S.	Opening - Sq.Ft. Exist.	Opening - Sq.Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	299	61	228	620.6	0.5	0.0	621.1	620.6
Design	30	468	66	360	621.3	0.5	0.0	621.8	621.3
Base	100	607	66	417	621.6	0.9	0.0	622.5	621.6
Overtopping	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. Calc.	500	917	66	527	622.0	0.0	0.0	622.0	622.0



PROFILE GRADE
DES PLAINES RIVER TRAIL



LOCATION SKETCH

STATE OF ILLINOIS
KRISTEN E. FIELDS
081-005714
6-10-22
LICENSED STRUCTURAL ENGINEER

EXP. DATE: 11-30-2022

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specification for Highway and Bridges".

GENERAL PLAN & ELEVATION SHEET 1
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 336+00 to 346+50

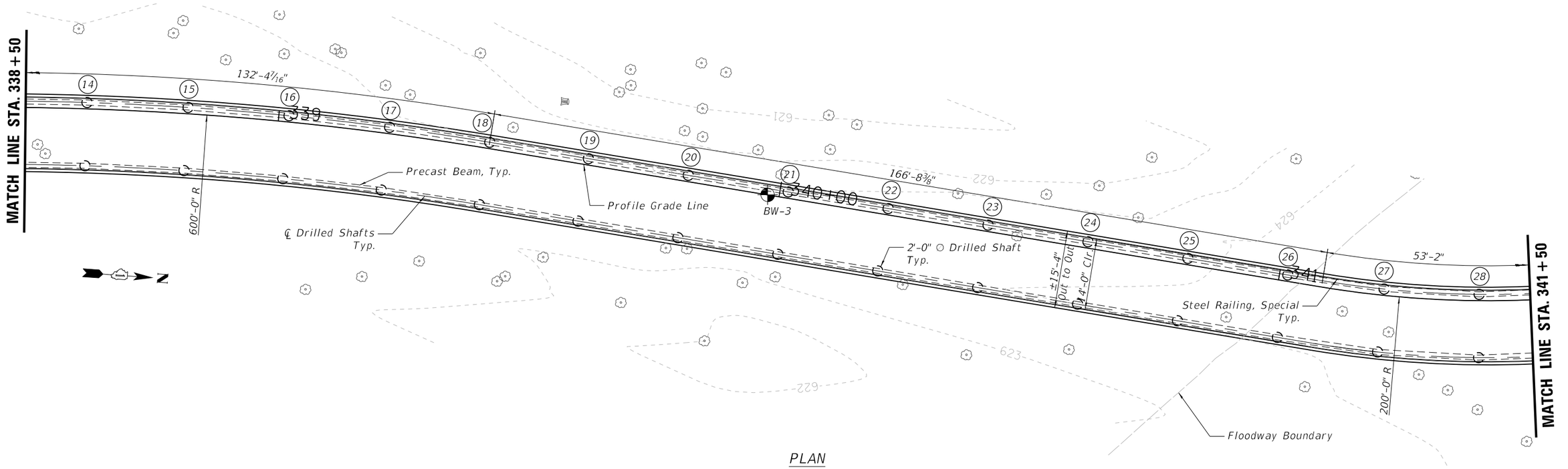
FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-GP&E-1.dgn	USER NAME = DmitriyO	DESIGNED -	DRAWN -
Default	PLOT SCALE = 20.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 6/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

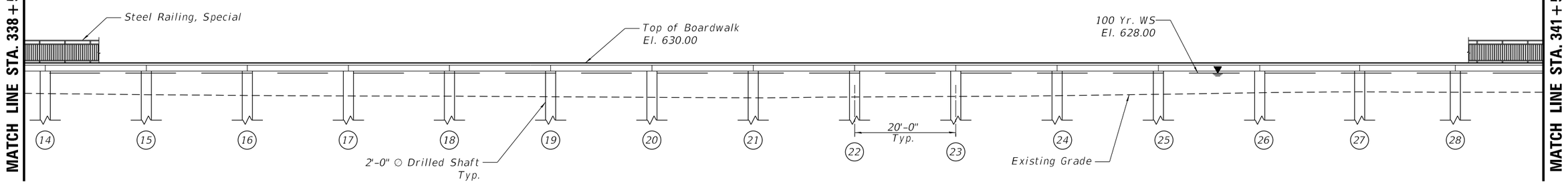
DES PLAINES RIVER TRAIL - SEGMENT 3
BOARDWALK
GENERAL PLAN & ELEVATION 1

SCALE: 1:20 | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

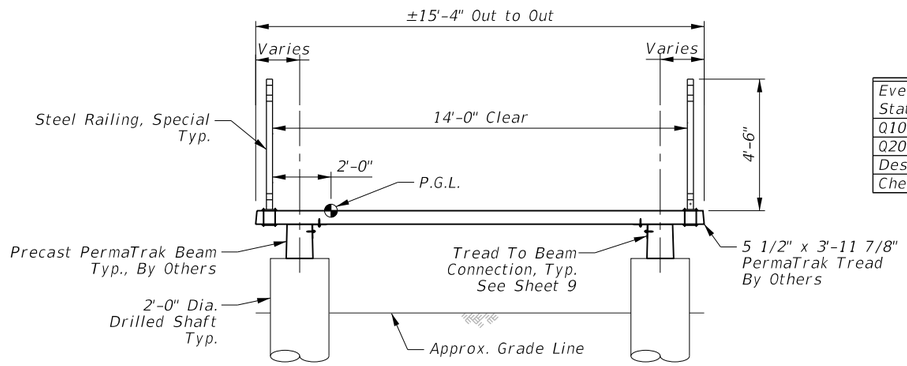
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	94
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



PLAN



ELEVATION



TYPICAL SECTION

SCOUR TABLE

Event/Limit State	Pier 14 (ft)	Pier 15 (ft)	Pier 16 (ft)	Pier 17 (ft)	Pier 18 (ft)	Pier 19 (ft)	Pier 20 (ft)	Pier 21 (ft)	Pier 22 (ft)	Pier 23 (ft)	Pier 24 (ft)	Pier 25 (ft)	Pier 26 (ft)	Pier 27 (ft)	Pier 28 (ft)	Item 113
Q100	622.31	622.22	622.18	622.00	621.82	621.70	621.60	621.68	621.99	622.13	622.26	622.53	622.82	622.94	622.89	
Q200	622.30	622.21	622.17	621.99	621.81	621.69	621.59	621.67	621.98	622.12	622.25	622.52	622.81	622.93	622.88	8
Design	622.31	622.22	622.18	622.00	621.82	621.70	621.60	621.68	621.99	622.13	622.26	622.53	622.82	622.94	622.89	
Check	622.30	622.21	622.17	621.99	621.81	621.69	621.59	621.67	621.98	622.12	622.25	622.52	622.81	622.93	622.88	

GENERAL PLAN & ELEVATION SHEET 2
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 336+00 to 346+50

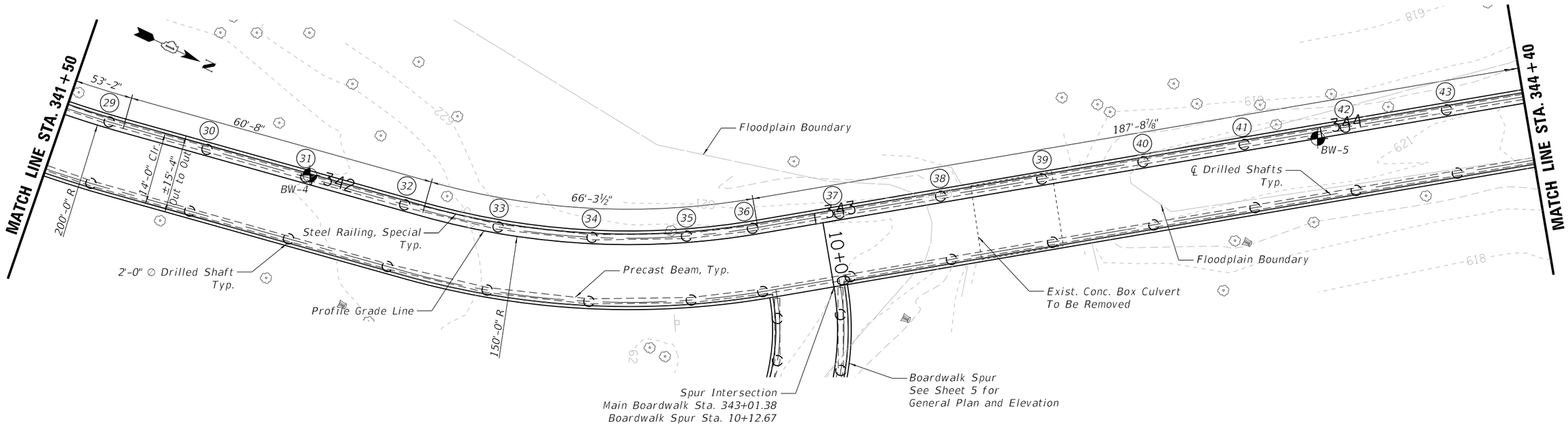
FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitryO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-GP&E-2.dgn	
	PLOT SCALE = 20.0000 '=' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

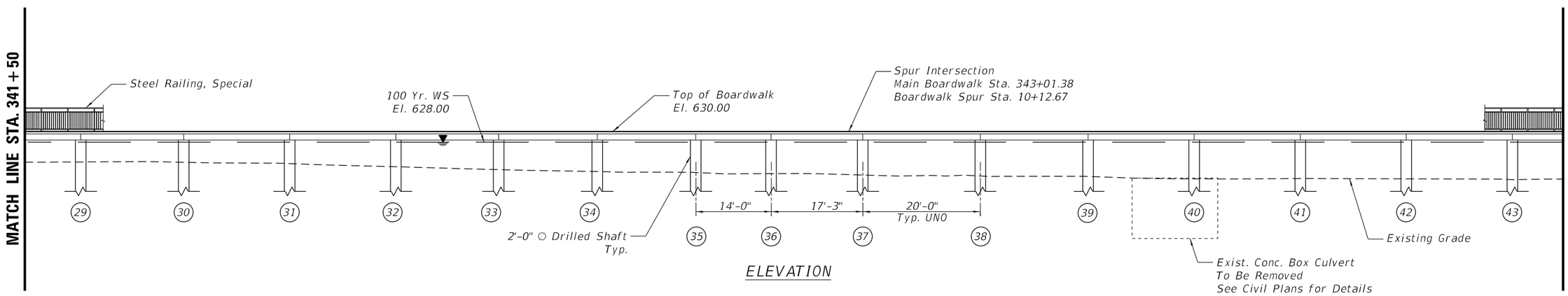
DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
GENERAL PLAN & ELEVATION 2

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	95
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



PLAN



ELEVATION

SCOUR TABLE

Event/Limit State	Pier 29 (ft)	Pier 30 (ft)	Pier 31 (ft)	Pier 32 (ft)	Pier 33 (ft)	Pier 34 (ft)	Pier 35 (ft)	Pier 36 (ft)	Pier 37 (ft)	Pier 38 (ft)	Pier 39 (ft)	Pier 40 (ft)	Pier 41 (ft)	Pier 42 (ft)	Pier 43 (ft)	Item 113
Q100	622.94	622.8	622.65	622.01	620.19	619.74	619.61	619.25	618.95	619.11	618.75	618.24	618.13	618.11	618.07	8
Q200	622.93	622.79	622.64	622.00	620.11	619.66	619.53	619.17	618.87	619.03	618.67	618.16	618.05	618.03	617.99	
Design	622.94	622.8	622.65	622.01	620.19	619.74	619.61	619.25	618.95	619.11	618.75	618.24	618.13	618.11	618.07	
Check	622.93	622.79	622.64	622.00	620.11	619.66	619.53	619.17	618.87	619.03	618.67	618.16	618.05	618.03	617.99	

GENERAL PLAN & ELEVATION SHEET 3
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 336+00 to 346+50

FILE NAME =	USER NAME = DmitryO	DESIGNED -	DRAWN -
M:_2020\20-202 CBBEL FPDCC Engineering	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD	Sheets\20-202-STR-GP&E-3.dgn
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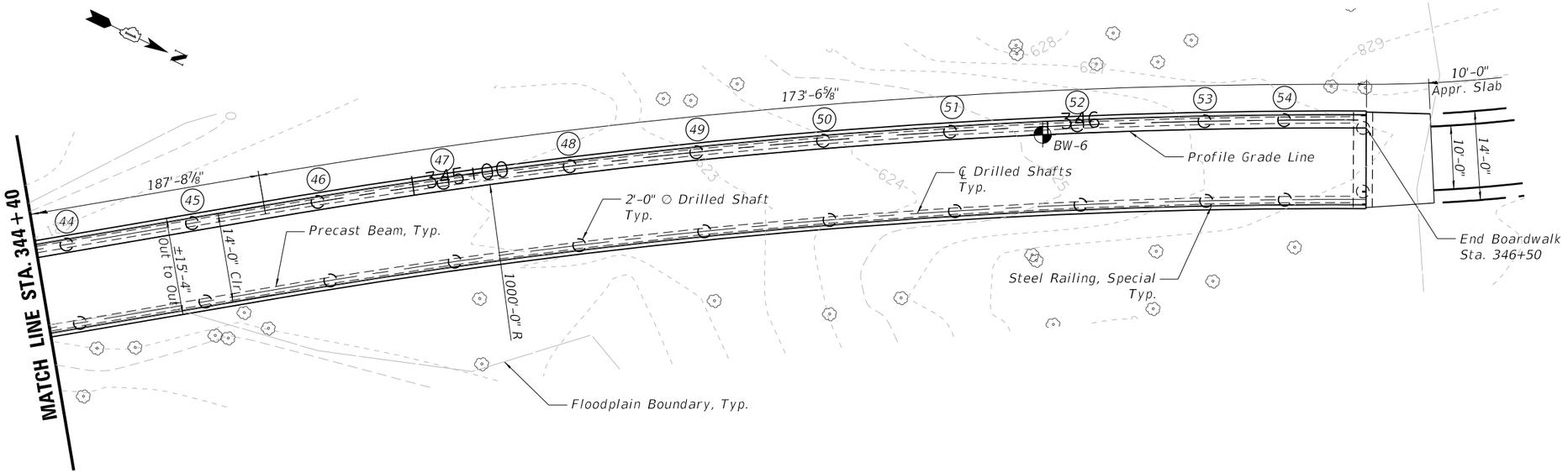
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

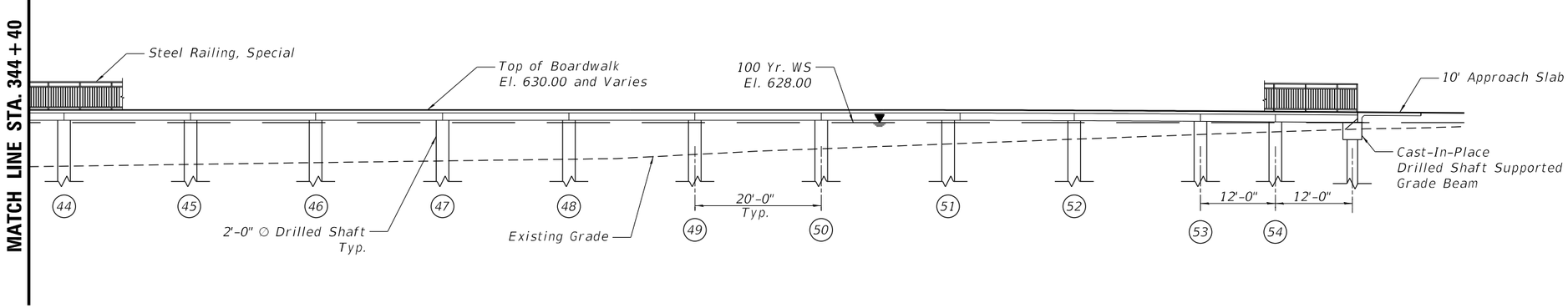
DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
GENERAL PLAN & ELEVATION 3

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	96
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



PLAN



ELEVATION

SCOUR TABLE

Event/Limit State	Pier 44 (ft)	Pier 45 (ft)	Pier 46 (ft)	Pier 47 (ft)	Pier 48 (ft)	Pier 49 (ft)	Pier 50 (ft)	Pier 51 (ft)	Pier 52 (ft)	Pier 53 (ft)	Pier 54 (ft)	N. Abut. (ft)	Item 113
Q100	618.44	618.65	618.93	619.19	619.44	619.89	622.72	623.24	624.10	624.91	625.35	625.50	8
Q200	618.36	618.57	618.85	619.11	619.36	619.81	622.71	623.23	624.09	624.90	625.34	625.49	
Design	618.44	618.65	618.93	619.19	619.44	619.89	622.72	623.24	624.10	624.91	625.35	625.50	
Check	618.36	618.57	618.85	619.11	619.36	619.81	622.71	623.23	624.09	624.90	625.34	625.49	

GENERAL PLAN & ELEVATION SHEET 4
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 336+00 to 346+50

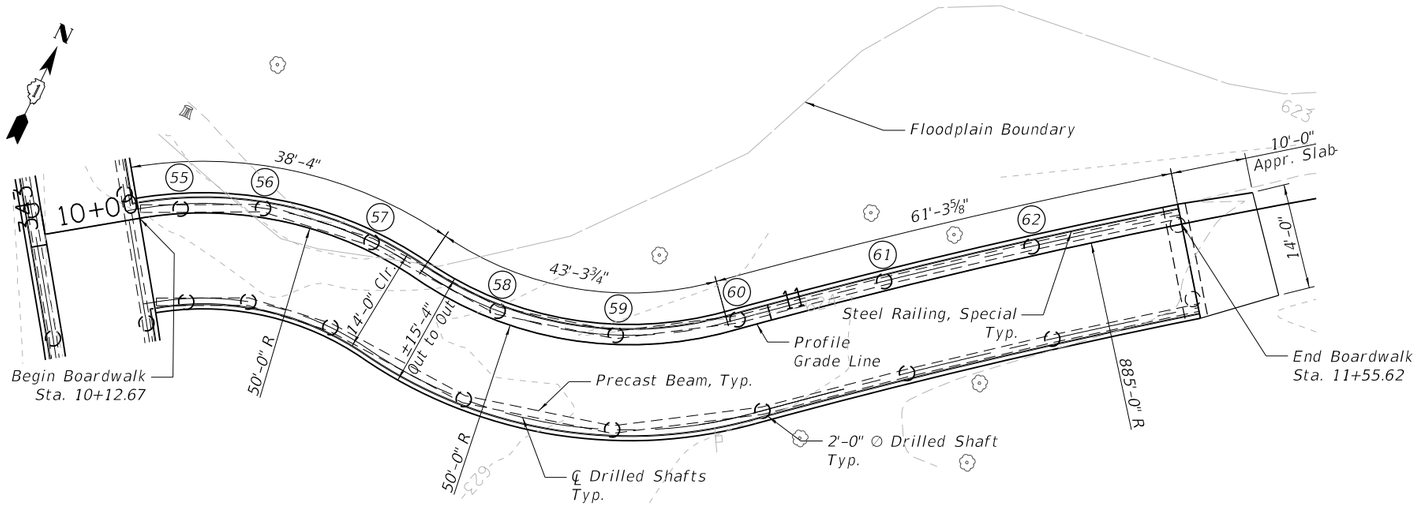
FILE NAME =	USER NAME = DmitryO	DESIGNED -	DRAWN -
M:_2020\20-202 CBBEL FPDCC Engineering	and CM Services\20-202-010 DesPlaines Trai	Seg 3-Prelim\Design\Structural\CADD\CADD	Sheets\20-202-STR-GP&E-4.dgn
Default	PLOT SCALE = 20.0.0000 '' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

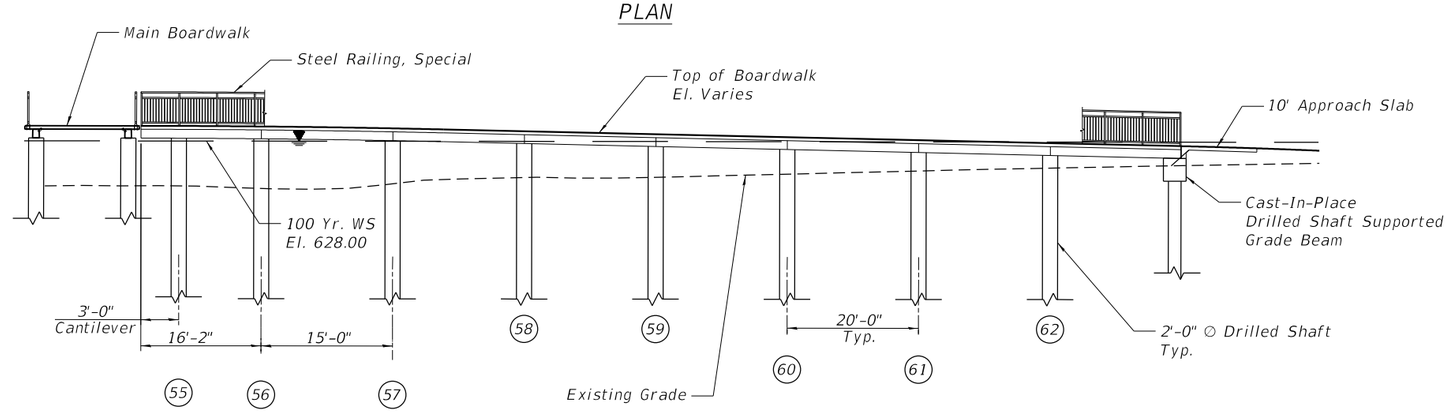
DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
GENERAL PLAN & ELEVATION 4

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

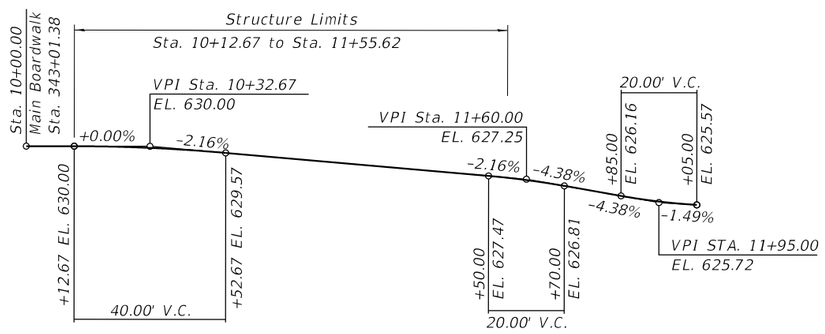
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	97
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



PLAN



ELEVATION



PROFILE GRADE - SPUR

SCOUR TABLE

Event/Limit State	Pier 55 (ft)	Pier 56 (ft)	Pier 57 (ft)	Pier 58 (ft)	Pier 59 (ft)	Pier 60 (ft)	Pier 61 (ft)	Pier 62 (ft)	Spur Abut. (ft)	Item 113
Q100	622.51	622.10	622.10	622.37	621.29	621.89	622.61	623.16	622.91	8
Q200	622.40	621.99	621.99	622.26	621.28	621.88	622.60	623.15	622.90	
Design	622.51	622.10	622.10	622.37	621.29	621.89	622.61	623.16	622.91	
Check	622.40	621.99	621.99	622.26	621.28	621.88	622.60	623.15	622.90	

GENERAL PLAN & ELEVATION SHEET 5
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 10+12.67 to 11+55.62

FILE NAME =	USER NAME = DmitryO	DESIGNED -	DRAWN -
M:_2020\20-202 CBBEL FPDCC Engineering	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-GP&E-5.dgn	
	PLOT SCALE = 20.0000 '' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
GENERAL PLAN & ELEVATION 5

SCALE: 1:20 | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	98
		CONTRACT NO. 61H87		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

1. All work shall be done in accordance to the Illinois Department of Transportation (IDOT) Standard Specification for Road and Bridge Construction, adopted January 1, 2022, and Supplemental Specifications and recurring Special Provisions, adopted January 1, 2022, unless noted otherwise. Construction Plans and Subsequent Details are all to be considered as part of the Contract. Incidental Items or Accessories necessary to complete this work may not be specifically noted but are considered a part of the Contract.

2. No Construction Plans shall be used for Construction unless specifically Marked for Construction. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions, if there are discrepancies between the Job site and what is shown on the construction plans, the contractor must immediately report to Engineer before doing any work, otherwise the Contractor shall assume full responsibility. In the event of disagreement between the plans and existing conditions and or details, the Contractor shall secure written Instruction from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. In failing to secure such instruction, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or questions arising with respect to the true meaning of the Construction Plans or Specifications, the decision of the Engineer shall be final and conclusive.

3. Contractor shall verify all topographic Information and grade elevations adjacent to boardwalk prior to proceeding, Inform Engineer of any variation.

CAST-IN-PLACE CONCRETE

1. All cast-in-place concrete work and reinforcing steel work shall be in accordance with Sections 503 and 508 respectively of the IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2022, and Supplemental Specifications and Recurring Special Provisions and as noted below.

2. Cover from the face of concrete to face of reinforcement shall be 3" for surfaces cast against earth and 2" for all other surfaces unless otherwise noted.

3. Reinforcement Bars designated (E) shall be Epoxy Coated.

4. Reinforcing bar bending dimensions are out-to-out.

5. All exposed concrete edges shall be beveled ¾".

PRECAST CONCRETE BOARDWALK

1. Only PermaTrak North America may provide the precast structure shown in the plans.

2. Abutments and Drilled Shafts shall be designed for lateral earth pressure, live load surcharge, and structure loads.

   Pier Loads are based upon a maximum longitudinal spacing of 20'-0", unless noted otherwise.

   Compression: 33.9 kips (Service)
   Lateral Wind: 2.2 kips (Service)

   The Contractor shall be responsible for the design, materials, and installation of the drilled shaft foundation piers, cast in place concrete grade beam supports, and railing for the Boardwalk Structure. All foundation locations shown in the boardwalk plans are approximate and shall be determined in the final boardwalk design. All details are approximate and are to be used for estimate purposes only. Contractor shall be coordinate design of support foundations and railings with PermaTrak prior to delivery of final design package for review. See Special Provisions for more details.

3. All bolts, nuts, washers, and hardware shall be hot-dipped galvanized after fabrication in accordance with ASTM A153.

4. Contractor shall accommodate thermal expansion and meet all code requirements for pedestrian rail loading and configuration requirements, including the limits on the size of opening allowed. Cost for the design, fabrication and installation of rail is included in BOARDWALK STRUCTURE. See Boardwalk Structure special provision for more information.

CONSTRUCTION

1. Do not scale dimensions for construction. Scale, if shown, applies only to full size drawings.

2. No construction joints, except those shown on the plans, will be allowed unless directed by the Engineer.

3. Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. and the Engineer prior to excavation.

4. Shop working or layout drawings pertaining to the construction of the work, as may be required, shall be submitted to the Engineer for approval prior to the start of construction. Shop drawing shall be signed and sealed by a Structural Engineer licensed in State of Illinois.

5. Upon completion, the contractor shall collect and remove all construction debris and excess material from the site. Damaged trees, shrubs, and other landscape features resulting from construction activities shall be replaced or repaired.

6. All bearing surfaces must be true and level.

7. Contractor must coordinate with Boardwalk Manufacturer to ensure proper placement of cast-in-place anchors. If the contractor elects to use post-installed anchors in lieu of cast-in-place anchors, he must coordinate the plate dimensions, bolt spacing and bolt quantity with the Boardwalk Manufacturer and get approval from Manufacturer's Engineer of Record prior to construction.

8. Contractor shall watch and protect existing 6'-6" diameter watermain tunnel at Station 337+02.50. Contractor shall locate drilled shafts such that watermain remains centered between shafts. Depth of tunnel is unknown. Contractor shall contact the owner if excavation or testing is required to determine exact location and depth of watermain tunnel.

9. Minimal disturbance of the wetlands and conservation of trees is critical. Given the limited working space for boardwalk construction, the Contractor shall utilize top-down construction methods. The Contractor shall remain in the working area and minimize wetland disturbance by placing protective mats or other measures for installation of the drilled shaft foundations. No additional compensation will be provided based on the limited access and construction area. All precast elements of the boardwalk shall be installed using equipment operating from the top of the new boardwalk structure.

ABBREVIATIONS

Appr.	Approach
Approx.	Aprroximate
Conc.	Concrete
℄	Centerline
Clr.	Clearance
Cts.	Centers
Dia.	Diameter
∅	Diameter
El.	Elevation
Exist.	Existing
Galv.	Galvanized
HDG	Hot Dip Galvanized
Min.	Minimum
O.C.	On Center
PL	Plate
S.S.	Stainless Steel
Sta.	Station
Typ.	Typical
UNO	Unless Noted Otherwise
WS	Water Surface

BILL OF MATERIALS

Pay Item		Unit	Quantity
50200100	Structure Excavation	Cu Yd	70
50301350	Concrete Superstructure (Approach Slab)	Cu Yd	10
50800205	Reinforcement Bars, Epoxy Coated	Lb	1,110
XX008287	Boardwalk Structure	Sq Ft	16,702

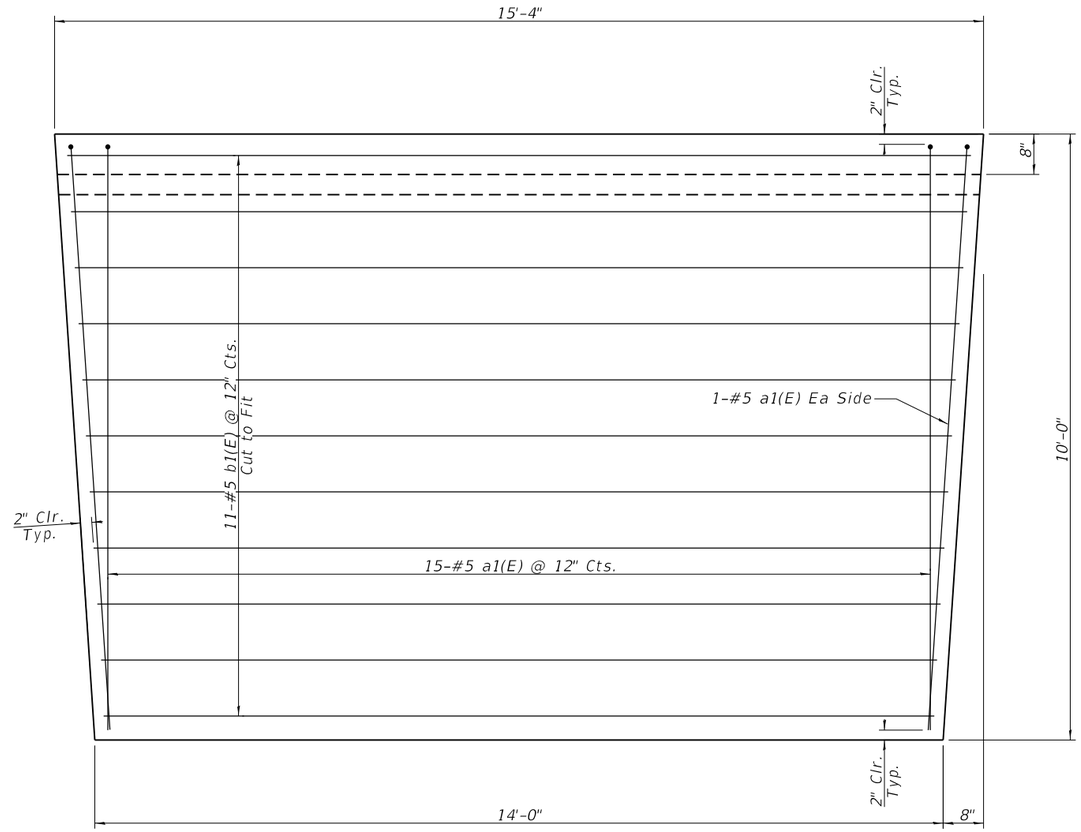
GENERAL NOTES & BILL OF MATERIAL
DES PLAINES RIVER TRAIL
PROPOSED BOARDWALK
SECTION 17-00034-00-BT
COOK COUNTY
STA. 336+00 to 346+50

FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitriyO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-GNBOM.dgn		
	PLOT SCALE = 20.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 5/26/2022	DATE -	REVISED -

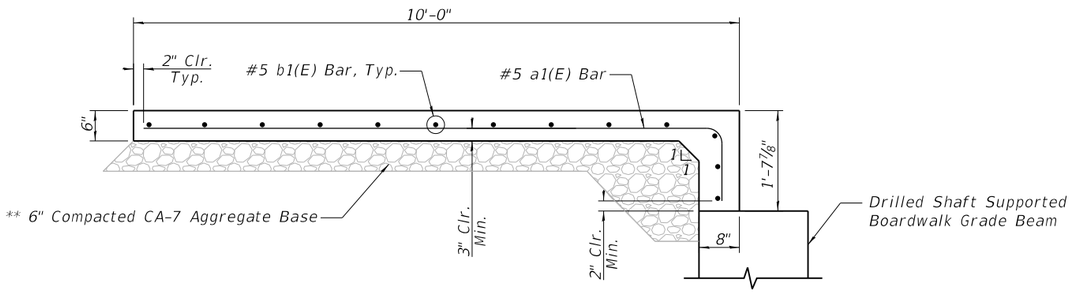
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
GENERAL NOTES AND BILL OF MATERIAL
SCALE: 1:20 | SHEET ___ OF ___ SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	99
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



APPROACH SLAB PLAN



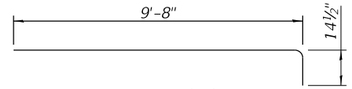
APPROACH SLAB ELEVATION

**Cost included with CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

BILL OF MATERIAL
FOR ONE APPROACH SLAB

Bar	No.	Size	Length	Shape
a1(E)	17	#5	10'-11"	
b1(E)	11	#5	15'-0"	

Pay Item	Unit	Quantity
Concrete Superstructure (Approach Slab)	Cu Yd	3.2
Reinforcement Bars, Epoxy Coated	Lb	370



Bar a1(E)

Note:

1. Approach slab typical at each Boardwalk termination. See General Plan and Elevation sheets 1-5.
2. Proposed path at boardwalk terminations has 1½% cross slope. Proposed main path drains to West and proposed spur path drains to North. Contractor shall match approach slab cross slope to path and transition approach slab to 0% cross slope to match at boardwalk. See Civil Plans for path details.

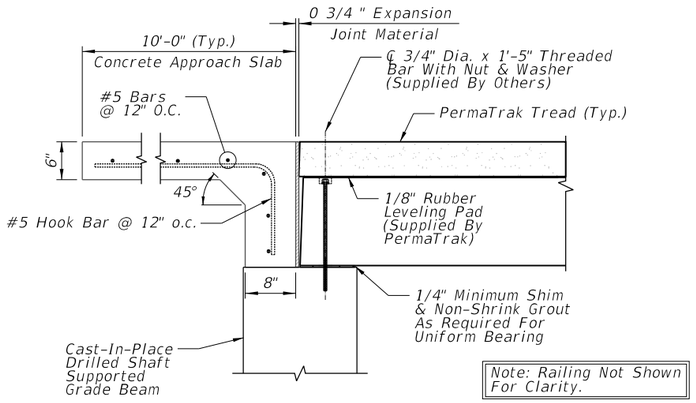
FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-DETAILS-3-APPRSLAB.dgn Default	USER NAME = DmitriyO	DESIGNED -	DRAWN -
	PLOT SCALE = 20.0000 '/ / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
APPROACH SLAB DETAILS

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

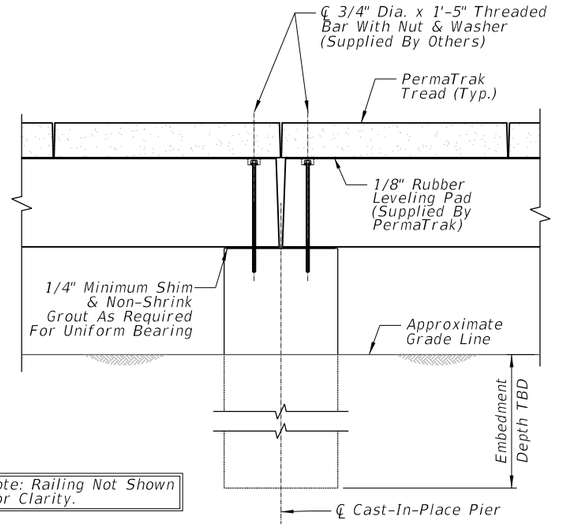
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	100
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		



DETAIL C – TYPICAL APPROACH

Scale: 1" = 1'-0"

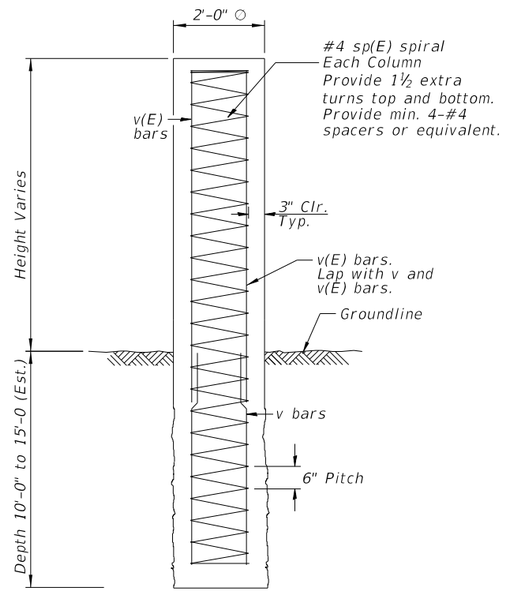
Notes:
1. Threaded Bar Shall Be Set In Epoxy Adhesive Anchoring System.
2. Threaded Bar Shall Be Embedded A Minimum of 3" Deep.
3. Drilled Hole Shall Be 7/8" In Diameter.
4. Completely Cover The Threaded Bar, Nut and Washer And Fill The Void Around The Threaded Bar With Epoxy Adhesive Or Non-Shrink Grout.



DETAIL B – TYPICAL PIER CONNECTION

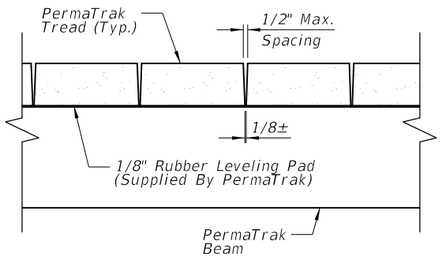
Scale: Not To Scale

Notes:
1. Threaded Bar Shall Be Set In Epoxy Adhesive Anchoring System.
2. Threaded Bar Shall Be Embedded A Minimum of 3" Deep.
3. Drilled Hole Shall Be 7/8" In Diameter.
4. Completely Cover The Threaded Bar, Nut and Washer And Fill The Void Around The Threaded Bar With Epoxy Adhesive Or Non-Shrink Grout.



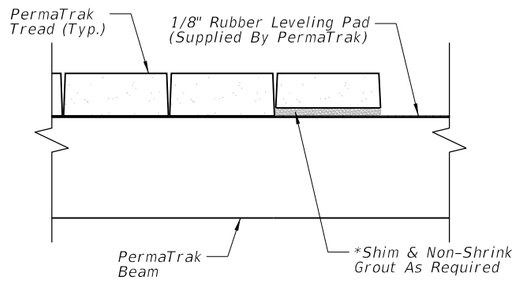
TYPICAL CONCRETE DRILLED SHAFT DETAIL

**Cost of Drilled Shaft design and construction is included with BOARDWALK STRUCTURE.



TYPICAL TREAD SPACING DETAIL

Scale: Not To Scale



TYPICAL SHIM/GROUT DETAIL

Scale: Not To Scale (UNDER TREAD)

*Note:
Due to tolerances and variance in precast production and installation accuracy, shimming and grouting may be required. Where required the entire bearing area and void shall be shim and grouted with non-shrink grout.

Note:

The Contractor shall be responsible for the design, materials, and installation of the drilled shaft foundation piers, cast in place concrete grade beam supports, and railing for the Boardwalk Structure. All foundation locations shown in the boardwalk plans are approximate and shall be determined in the final boardwalk design. All details are approximate and are to be used for estimate purposes only. Contractor shall coordinate design of support foundations and railings with PermaTrak prior to delivery of final design package for review. See Special Provisions for more details.

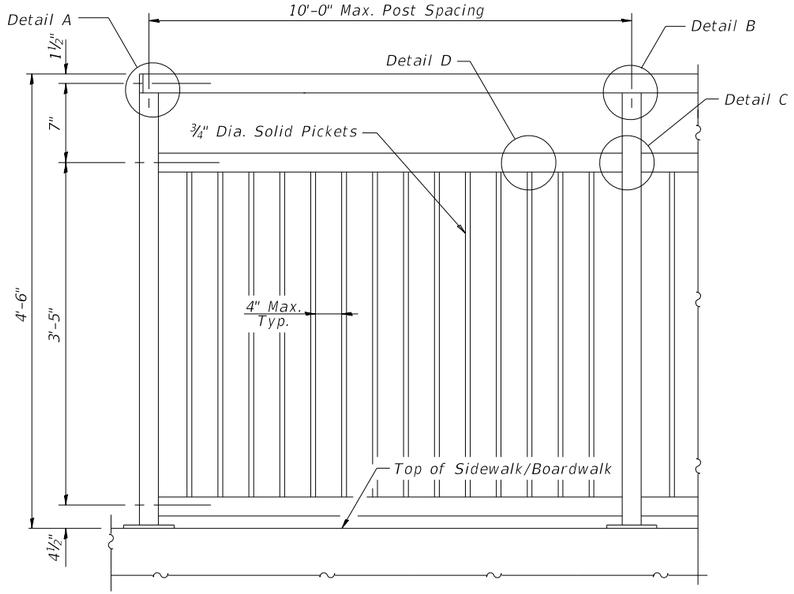
FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-DETAILS-1-PERMATRAK.dgn Default	USER NAME = DmitriyO	DESIGNED -	DRAWN -
	PLOT SCALE = 20.0000 '/ / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

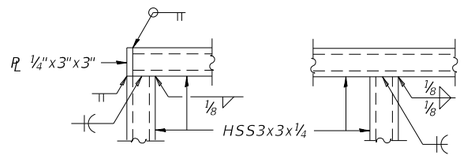
DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
PERMATRAK BOARDWALK DETAILS

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	101
		CONTRACT NO. 61H87		
	ILLINOIS	FED. AID PROJECT		

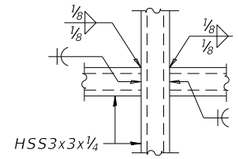


STEEL RAILING, SPECIAL

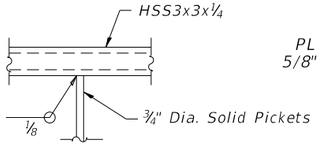


DETAIL A

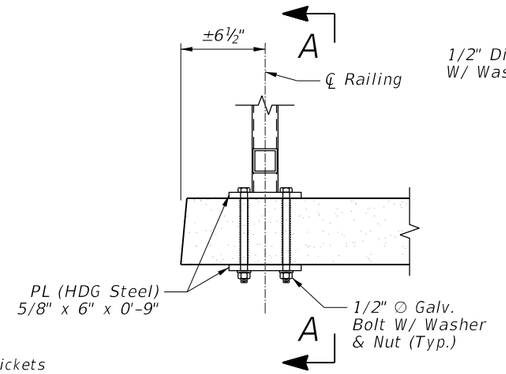
DETAIL B



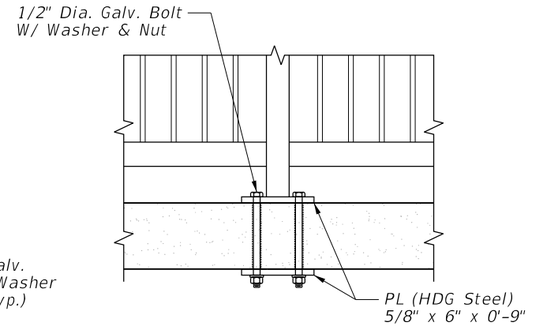
DETAIL C



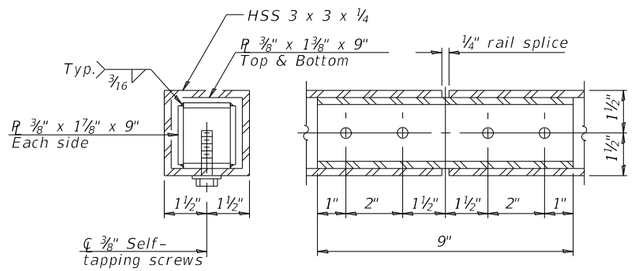
DETAIL D



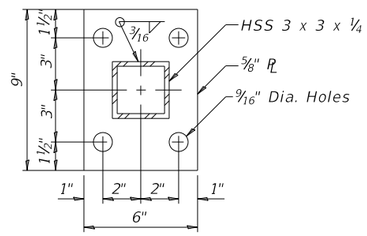
DETAIL 1



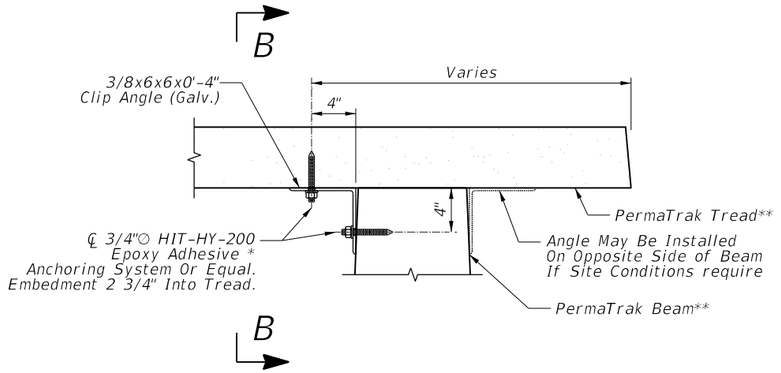
SECTION A-A



RAIL SPLICE



BASE PL

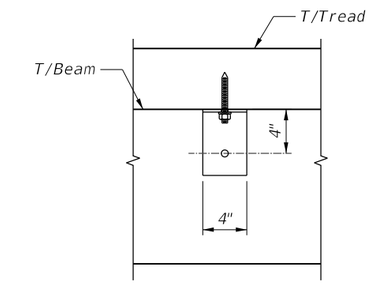


TREAD TO BEAM CONNECTION

Scale: Not To Scale

* Adhesive Not Supplied By Permatrak. Clip Angles, Threaded Rods And Nuts Supplied By Permatrak.

** Indicates Supplied By Boardwalk Manufacturer and Installed by contractor



SECTION B-B

Notes:

1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
2. All holes shall be drilled by contractor.
3. One (1) Clip Angle is required on each end of any tread with a handrail post attachment. Two (2) Clip Angles total per individual tread U.N.O. in plan view.
4. Contractor shall ensure placement of Clip Angles and anchors does not interfere with Steel Railing post anchors.
5. Cost of Steel Railing, Special and anchorage design, materials and construction is included with BOARDWALK STRUCTURE.

FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitryO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-DETAILS-2-STEELRAIL.dgn		
	PLOT SCALE = 20.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 5/23/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
STEEL RAILING DETAILS

SCALE: 1:20 | SHEET ___ OF ___ SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	102

CONTRACT NO. 61H87

ILLINOIS FED. AID PROJECT

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/27/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Addison Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-01
Station 336+00
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -8.2 ft
Upon Completion -22.0 ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL -0.20	5		
Hard, pale brown CLAY LOAM, trace fine gravel, Moist	4		15.5
	5	4.5	
	5	P	
	7		
	10		11.4
	12	4.5	
-4.00	16	P	
Medium Dense to Loose, pale brown SAND, course to fine, trace fine gravel, Moist, Saturated at 8.2 feet	14		
-5	10		5.1
	12		
	11		
	11		
	8		9.3
	8		
	9		
▼	6		
	4		13.6
-9.50	3		
-10	4		
Very Stiff, gray CLAY, trace fine gravel, Moist, MC=18.9% 9.5-10.0 feet	5		
	7		16.2
	8	3.4	
-12.00	10	B	
Medium Dense, gray SAND, course to fine, little fine gravel, Saturated	5		
	4		14.1
	6		
	7		
	4		
-15	3		11.7
-15.50	5		
Very Stiff, gray CLAY, trace fine gravel, Moist, MC=20.3% 15.5-16.0 feet	7		
			15.6
Shelby Tube 16.0-18.0 CLAY A6(7), GS 0 Gr=.2% Sa=19.1%, Si=49.5%, C=31.2%, Atterberg Limits LL=27 PL=16, PI=11, UC=3.21 tsf -18.00		3.2	
	7	B	
	7		16.2
	6		
Medium Dense, gray SILT, Massive, Moist -20.00	8		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff, gray CLAY, trace fine gravel, Moist	7		
	7		18.0
	8	3.9	
▽	9	B	
	4		
	4		16.9
	5	2.9	
-24.00	7	B	
Very Stiff to HARD, gray CLAY LOAM, trace medium to fine gravel, Moist	10		
-25	11		17.2
	12	2.9	
	12	B	
	5		
	12		18.6
	4	4.4	
-28.00	19	B	
Dense, gray SILT, Massive, Moist	22		
	23		16.5
	25		
-30.00 -30	19		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/27/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Addison Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-02
Station _____
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -4.0 ft
Upon Completion Dry ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose, black SAND FILL, medium to fine, Moist	4		
-1.00	3		16.6
Loose, brown and yellowish brown SILTY LOAM, trace fine gravel, Moist, MC=15.1%	2		
-2.00	4		
	5		
Hard, brown CLAY LOAM, trace medium to fine gravel, microfractures scattered, Moist	5		24.9
-3.30	5	4.3	
Dense, brown SANDY LOAM, -4.00 ▼ course to fine, trace fine gravel, Moist, MC=18.1%	6	P	
	9		
-5	7		14.7
Medium Dense, brown SAND, course to fine, trace fine gravel, Saturated (perched water)	6		
-6.00	5		
Hard gray CLAY LOAM, trace large to fine gravel, Moist	3		
	5		19.4
	7	5.3	
-8.00	8	B	
Medium Dense, gray SILT, massive, trace fine gravel, clay lense 8.8-9.0 feet, Moist	4		
	6		12.9
	7		
-10.00 -10	9		
Very Stiff, gray CLAY, trace fine gravel, Moist	9		
	9		23.9
	12	2.9	
-12.00	11	B	
Medium Dense, gray SILTY LOAM A-4(3), GS Gr=7.4%, Sa=5.1%, Si=70.7%, C=16.8%, Atterberg Limits=LL=22, PL=16, PI=6, UC=3.02 tsf			15.6
-14.00		3.0	
		B	
Medium Dense, gray SILT, Massive, Moist	4		
-15	4		20.6
	6		
-16.00	6		
Stiff to Very Stiff, gray CLAY, trace fine gravel, Moist	2		
	4		16.9
	4	1.9	
	6	B	
	3		
	4		18.5
	6	2.9	
-20	7	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to Very Stiff, gray CLAY, trace fine gravel, Moist *(continued)*	7		
	10		20.0
	12	1.8	
-22.00	10	B	
Hard, gray CLAY LOAM, trace to little, medium to fine gravel, Moist	1		
	2		18.2
	3	5.8	
-24.00	10	B	
Dense, gray SAND, course to fine, trace fine gravel, Moist	9		
-25	16		15.7
-25.50	22		
Dense, gray SILT, Massive, Moist, MC=14.9% from 25.5-26.0 feet	24		
	8		
	17		14.3
	19		
	23		
	23		
	19		14.8
	23		
-30.00 -30	28		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitryO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-BOR-1.dgn	
	PLOT SCALE = 20.0.0000 '' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLANES RIVER TRAIL – SEGMENT 3
BOARDWALK
BORING LOGS 1

SCALE: 1:20 SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	103
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/27/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Grove Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-03
Station _____
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -4.0 ft
Upon Completion Dry ft
After _____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose, black and brown SAND FILL, medium to fine, Moist	-0.50	3		
		4		13.9
Loose, black SANDY LOAM FILL, course to fine, little medium to fine gravel, brick fragments, Moist, MC=19.8% 0.5-2.0 feet	-2.00	4		
		4		
		3		
Medium Dense, grayish brown and yellowish brown SANDY LOAM, course to fine, little large to fine gravel, Moist	-4.00	5		12.4
		6		
		6		
Medium Dense, yellowish brown SAND, medium to fine, Saturated	-5.00	6		16.6
Hard, gray CLAY LOAM, trace to little medium to fine gravel, Moist, MC=23.0%	-6.00	7		
		6		
		3		
Medium Dense, gray SILT, Massive, Moist		5		20.3
		5		
	-8.00	6		
Hard, gray CLAY, trace fine gravel, Moist		2		
		4		22.7
		6	4.6	
	-10.00	9	B	
Very Stiff, gray CLAY LOAM, trace to little gravel, Moist		8		
		10		15.7
		10	3.9	
	-12.00	9	B	
Stiff to Hard, gray CLAY, trace fine gravel, Moist				
				16.0
Shelby Tube 12.0-14.0 feet CLAY A6(8), GS Gr=8.3%, Sa=17.1%, Si=43.5%, C=31.1%, Atterberg Limits LL=29, PL=16, PI=13, UC=3.22 tsf			3.2	
			B	
		4		
	-15	4		15.9
		5	3.2	
		7	B	
		4		
		5		16.3
		7	1.9	
		9	B	
		3		
		6		18.0
		7	4.9	
	-20.00	11	B	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense to Very Dense, gray SILT, Massive, Moist		7		
		14		14.2
		18		
		25		
		7		
		19		14.9
		22		
		24		
		19		
	-25	21		14.8
		32		
		40		
		14		
		21		15.3
		34		
		21		
		17		
		22		14.8
		26		
	-30.00	33		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips				
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/28/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Grove Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-04
Station _____
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -5.0 ft
Upon Completion -1.0 ft
After _____ Hrs. _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL	-0.50	4		
Very Stiff, brown and yellowish brown CLAY LOAM, trace to little, medium to fine gravel, scattered microfracturing visible, Moist	-2.00	2		15.4
		3		
		3		
Loose, yellowish brown and brown SANDY LOAM, course to fine, little medium to fine gravel, Moist	-4.00	2		23.8
		3		
		3		
Medium Dense, brown SAND, course to fine, little medium to fine gravel, Moist, Saturated at 5.0 feet	-5	5		
		4		18.3
		5		
	-6.00	5		
Very Stiff, gray CLAY, trace fine gravel, Moist		5		
		6		22.5
		8	2.5	
	-8.00	10	P	
Hard, gray CLAY LOAM, trace to little, medium to fine gravel, Moist		5		
		4		24.5
		5	5.3	
	-10	8	B	
	-10.75	12		
Medium Dense, gray SILT, Massive, Moist, MC=14.0% 10.75-12.0 feet		12		24.2
		14	4.9	
		12	B	
		4		
		5		12.5
	-13.50	5		
Very Stiff to Hard, gray CLAY, Moist, MC=18.0% 13.5-14.0 feet		6		
Shelby Tube 14.0-16.0 feet CLAY A6(11) GS Gr=4.2%, Sa=12.5%, Si=44.1%, C=39.2%, Atterberg Limits LL=32, PL=18, PI=14, UC=5.43 tsf	-15			16.6
			5.4	
			B	
		5		
		8		18.1
		10	3.4	
		11	B	
		13		
		14		17.9
		15	4.4	
	-20.00	14	B	

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff, gray CLAY LOAM, trace to little, large to fine gravel, scattered interbedded silt lenses (0.01 feet thick), Moist		2		
		3		20.4
		4	2.3	
	-22.00	7	P	
Medium Dense to Dense, gray SILT, Massive, Moist		8		
		10		15.7
		11		
		15		
		8		
	-25	9		15.2
		12		
		21		
		12		
		18		18.3
		22		
		23		
		15		
		18		18.5
		21		
	-30.00	20		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips				
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

FILE NAME = M:_2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitryO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD Sheets\20-202-STR-BOR-2.dgn	
	PLOT SCALE = 20.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
BORING LOGS 2

SCALE: 1:20 | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	104
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/28/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Roscoe Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-05
Station 344+00
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -8.0 ft
Upon Completion -12.0 ft
After _____ Hrs. _____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense, pale brown SILTY LOAM FILL, trace to little large to fine gravel, Moist		5		
		5		11.7
		6		
	-2.00	8		
Very Stiff, yellowish brown and light gray CLAY LOAM, trace to little, medium to fine gravel, Moist		4		
		3		24.4
		4	2.8	
	-4.00	3	P	
Stiff to Very Stiff, gray CLAY, trace roots, black layer 4.5-4.6 feet, Moist		5		
	-5	5		29.9
		5	1.5	
		4	P	
Wet at 8.0 feet		3		
		2		30.3
		4	2.2	
	▼	4	B	
		3		
		3		24.4
		4	2.4	
	-10.00 -10	5	B	
Medium dense, gray SILTY LOAM, trace fine gravel, scattered clay lenses, Moist		8		
		9		13.5
		9		
	-12.00 ▽	10		
Very Stiff, gray CLAY A6(8), GS Gr=5.5%, Sa=16.4%, Si=45.3%, C=32.8%, Atterberg Limits LL=30, PL=18, PI=12, UC=2.90 tsf, Moist Shelby Tube 12.0-14.0 feet				17.7
			2.9	
			B	
		4		
	-15	3		17.3
		4	3.4	
		5	B	
		5		
		6		18.6
		8	2.9	
		10	B	
		3		
		4		16.0
		6	3.6	
	-20.00 -20	10	B	
Medium dense to Dense, gray SILT, Massive, Moist		8		
		10		15.6
		2		
		15		
		9		
		11		16.4
		12		
		15		
		16		
	-25	21		16.2
		32		
		26		
		10		
		16		16.6
		19		
		20		
		10		
		18		15.9
		23		
	-30.00 -30	32		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips				
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Interra, Inc.
600 Territorial Drive, Suite G
Bolingbrook, IL 60440
www.interraservices.com

SOIL BORING LOG

Date 4/28/21

ROUTE DesPlaines River Trail - Segment 3 DESCRIPTION DesPlaines River Trail, Segment 3, Chicago, Illinois LOGGED BY Eric Slusser

SECTION Roscoe Avenue to Bryn Mawr Avenue LOCATION Boardwalk (See attached boring location plan)

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. _____
Station _____

BORING NO. BW-06
Station _____
Offset _____
Ground Surface Elev. 0.00 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter -6.0 ft
Upon Completion -20.0 ft
After _____ Hrs. _____ ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff, yellowish brown and pale brown CLAY LOAM, trace medium to fine gravel, Moist		5		
		4		8.6
		3	2.3	
	-2.00	4	P	
Medium Dense, pale brown and yellowish brown SANDY LOAM, course to fine, trace to little fine gravel, Moist		5		
		9		8.3
		13		
		15		
		5		
	-5	4		19.4
		11		
	-6.00 ▼	11		
Medium Dense, brown and yellowish brown SAND, course to fine, trace to little fine gravel, Saturated		3		
		7		14.4
		9		
	-8.00	8		
Hard, gray CLAY, trace fine gravel, Moist		2		
		5		19.0
		7	5.3	
	-10.00 -10	10	B	
Hard, gray CLAY LOAM, trace to little large to fine gravel, Moist		10		
		16		14.2
		19	7.3	
	-12.00	18	B	
Very Stiff CLAY A6(8), GS=Gr=2.9%, Sa=12.1%, Si=41.7%, C=32.8%, atterberg Limits LL=33, PL=19, PI=14, UC=3.95 tsf				18.7
			4.0	
	-14.00		B	
Medium Dense, gray SILTY LOAM, trace medium to fine gravel, Moist		5		
	-15	6		13.0
		7		
	-16.00	9		
Hard to Very Stiff, gray CLAY, trace fine gravel, Moist		5		
		6		16.6
		6	4.4	
		7	B	
		4		
		5		15.8
		7	4.9	
	▽ -20	10	B	
Hard to Very Stiff, gray CLAY, trace fine gravel, Moist *(continued)*		6		
		7		17.5
		10	3.9	
		13	B	
		9		
		11		17.7
		13	5.1	
	-24.00	14	B	
Dense, gray SILT, Massive, Moist		16		
	-25	19		16.3
		22		
		27		
		15		
		16		16.1
		19		
		20		
		19		
		20		17.4
		22		
	-30.00 -30	21		
End of boring @ 30.0 feet Backfill boring with soil cuttings and bentonite chips				
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

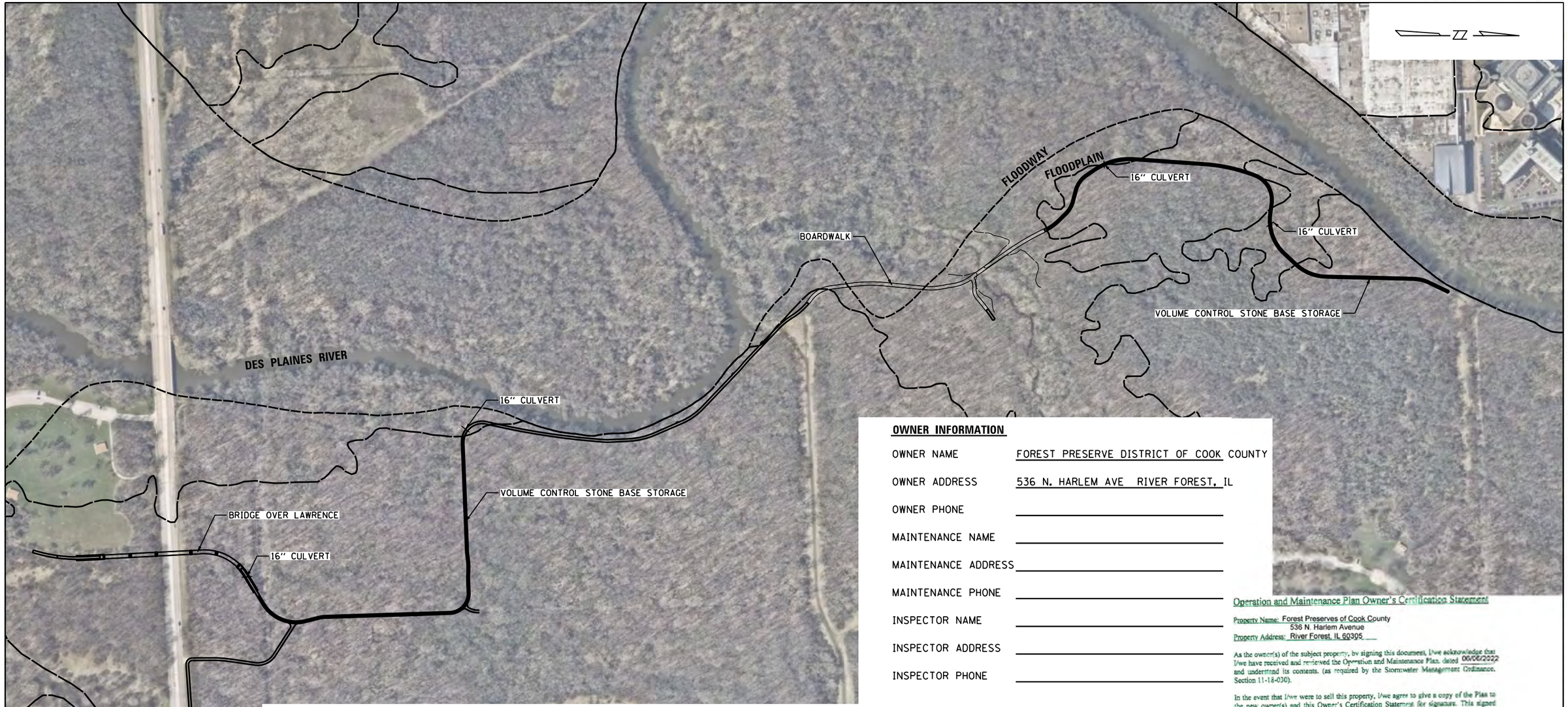
FILE NAME = M:\..2020\20-202 CBBEL FPDCC Engineering\Default	USER NAME = DmitryO	DESIGNED -	DRAWN -
	and CM Services\20-202-010 DesPlaines Trail	Seg 3-Prelim\Design\Structural\CADD\CADD	Sheets\20-202-STR-BOR-3.dgn
	PLOT SCALE = 20:0.0000 '1' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/25/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
BOARDWALK
BORING LOGS 3

SCALE: 1:20 SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	17-00034-00-BT	COOK	129	105
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			



OWNER INFORMATION

OWNER NAME FOREST PRESERVE DISTRICT OF COOK COUNTY

OWNER ADDRESS 536 N. HARLEM AVE RIVER FOREST, IL

OWNER PHONE _____

MAINTENANCE NAME _____

MAINTENANCE ADDRESS _____

MAINTENANCE PHONE _____

INSPECTOR NAME _____

INSPECTOR ADDRESS _____

INSPECTOR PHONE _____

MAINTENANCE AND MONITORING PRACTICES/SCHEDULE/TRAINING

GENERAL
1. OWNER SHALL REVIEW AND ASSESS OPERATION AND MAINTENANCE PRACTICES ANNUALLY.
2. OWNER SHALL INSPECT AND MAINTAIN AS NEEDED ACCESS ROUTES INCLUDING ROADWAYS AND PATHS AT LEAST ONCE PER YEAR.
3. OWNER SHALL CAUSE TO BE KEPT AN UPDATED LOG BOOK DOCUMENTING THE PERFORMANCE OF THE REQUIRED OPERATION AND MAINTENANCE ACTIVITIES IN PERPETUITY. SAID LOG BOOK SHALL BE PRODUCED UPON REQUEST OF A CITY INSPECTOR.
4. OWNER SHALL MAINTAIN VEGETATION ON A REGULAR BASIS.
5. OWNER SHALL BE RESPONSIBLE FOR SIGNAGE AND GATES TO PROTECT THE PUBLIC.

LOG BOOK CONTENTS:
1. INSPECTION DATES (ROUTINE AND EMERGENCY).
2. COMPONENT INSPECTED.
3. MAINTENANCE/REPAIR PERFORMED.

TRAINING:
1. OWNER SHALL ASSIGN SPECIFIC INDIVIDUAL(S) THE RESPONSIBILITY FOR THE OPERATION AND MAINTENANCE OF ALL ONSITE BMP'S.
2. OWNER SHALL CAUSE RESPONSIBLE INDIVIDUAL(S) TO BE TRAINED AT LEAST ONCE EVERY FIVE (5) YEARS OR UPON A NEW RESPONSIBLE INDIVIDUAL BEING ASSIGNED.
3. RESPONSIBLE INDIVIDUAL(S) SHALL BE FAMILIAR WITH THE COMPONENTS OF THIS OPERATION AND MAINTENANCE PLAN AND THEIR PERSONAL LEVEL OF RESPONSIBILITY.

TRAINING:
1. OWNER SHALL ASSIGN SPECIFIC INDIVIDUAL(S) THE RESPONSIBILITY FOR THE OPERATION AND MAINTENANCE OF ALL ONSITE BMP'S.
2. OWNER SHALL CAUSE RESPONSIBLE INDIVIDUAL(S) TO BE TRAINED AT LEAST ONCE EVERY FIVE (5) YEARS OR UPON A NEW RESPONSIBLE INDIVIDUAL BEING ASSIGNED.
3. RESPONSIBLE INDIVIDUAL(S) SHALL BE FAMILIAR WITH THE COMPONENTS OF THIS OPERATION AND MAINTENANCE PLAN AND THEIR PERSONAL LEVEL OF RESPONSIBILITY.

CULVERTS:
1. ANNUALLY
- INSPECT AND CLEAN CULVERTS

VOLUME CONTROL STONE BASE STORAGE [redacted]
1. ANNUALLY
- INSPECT TRAIL GRAVEL FOR EVIDENCE OF FAILURE OF THE STONE BASE, SUCH AS SETTLEMENT OR COLLAPSE.
- INSPECT AND MAINTAIN VEGETATED SHOULDERS. REPLACE VEGETATION AND AMENDED SOIL MIXTURE AS NECESSARY PER THE APPROVED PLANS.

Operation and Maintenance Plan Owner's Certification Statement

Property Name: Forest Preserves of Cook County
536 N. Harlem Avenue
Property Address: River Forest, IL 60305

As the owner(s) of the subject property, by signing this document, I/we acknowledge that I/we have received and reviewed the Operation and Maintenance Plan, dated 06/06/2022 and understand its contents. (as required by the Stormwater Management Ordinance, Section 11-18-030).

In the event that I/we were to sell this property, I/we agree to give a copy of the Plan to the new owner(s) and this Owner's Certification Statement for signature. This signed Certification Statement must be submitted to the City's Department of Buildings upon transfer of ownership.

I/we further agree to adhere to the maintenance schedule of best management practices stipulated in the Plan. I/we also acknowledge that if I/we don't maintain the measures as shown in the Plan, upon City inspection, I/we could be liable for a violation of the City's Municipal Code (according to Stormwater Management Ordinance Section 11-18-130).

Pamela A. Sielski
Initial Owner(s) Printed Name

Initial Owner(s) Signature 06/06/2022 Date Notary Public

OFFICIAL SEAL
FRANCIS NOTTOLI
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:

2nd Owner(s) Printed Name

2nd Owner(s) Signature Date Notary Public

3rd Owner(s) Printed Name

3rd Owner(s) Signature Date Notary Public

FILE NAME = N:\COOK COUNTY FPD\20004B.0010A\Civil\O-M_PLAN_20004B-TO-10_01.SHT	USER NAME = mthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 400'	CHECKED -	REVISED -
Default	PLOT DATE = 6/6/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DES PLAINES RIVER TRAIL – SEGMENT 3
OPERATIONS AND MAINTENANCE PLAN

SCALE: 1:400 SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	106
		CONTRACT NO. 61H87		
	ILLINOIS FED. AID PROJECT			

PRACTICE 103
TEMPORARY WETLAND CROSSING (Drag Line Mat)

DESCRIPTION
- A series of wooden "rafts" placed beneath the tread of heavy machinery to more evenly distribute the weight.

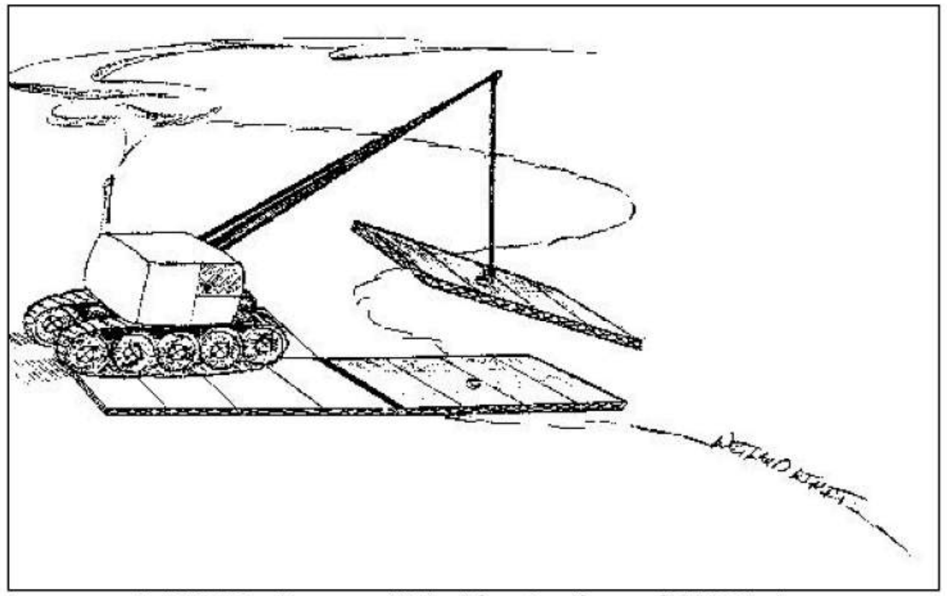


Exhibit 103a: Temporary Wetland Crossing (Source: CBBEL Files)

PURPOSE
- To reduce the impact of heavy machinery in wetlands or other sensitive or soft areas.

WHERE APPLICABLE
- Shallow wetlands.
- Soft soils or other sensitive areas.

ADVANTAGES
- Allows access through shallow wetlands or other sensitive areas.
- Minimizes adverse impacts to wetlands or other sensitive areas by more evenly distributing the weight.

CONSTRAINTS
- Only useful with machinery equipped with a boom such as a back hoe or drag line.
- Minor soil displacement is inevitable.

DESIGN AND CONSTRUCTION GUIDELINES

Materials
- 4 drag line mats, each constructed from 5 pieces of 20' long, 12" x 12" treated wooden beams cabled together.

Installation
- 2 drag line mats are placed in front of the machinery so that each mat is centered by each tractor tread, and two mats are placed behind the machinery.
- Machinery operator drives onto mats in front of the machine.
- Machinery operator uses boom to lift the two mats behind the machine, and lines them up in front of the mats the machine is on.
- Operator drives onto the two mats just placed in front of the mats the machine is on.
- Operator uses boom to retrieve the 2 mats now behind the machine, and places them in front of the machine as described above.
- Piggy back process continues until operator reaches the final destination.

Special Considerations
- Only useful if water is ≤ 6" deep.

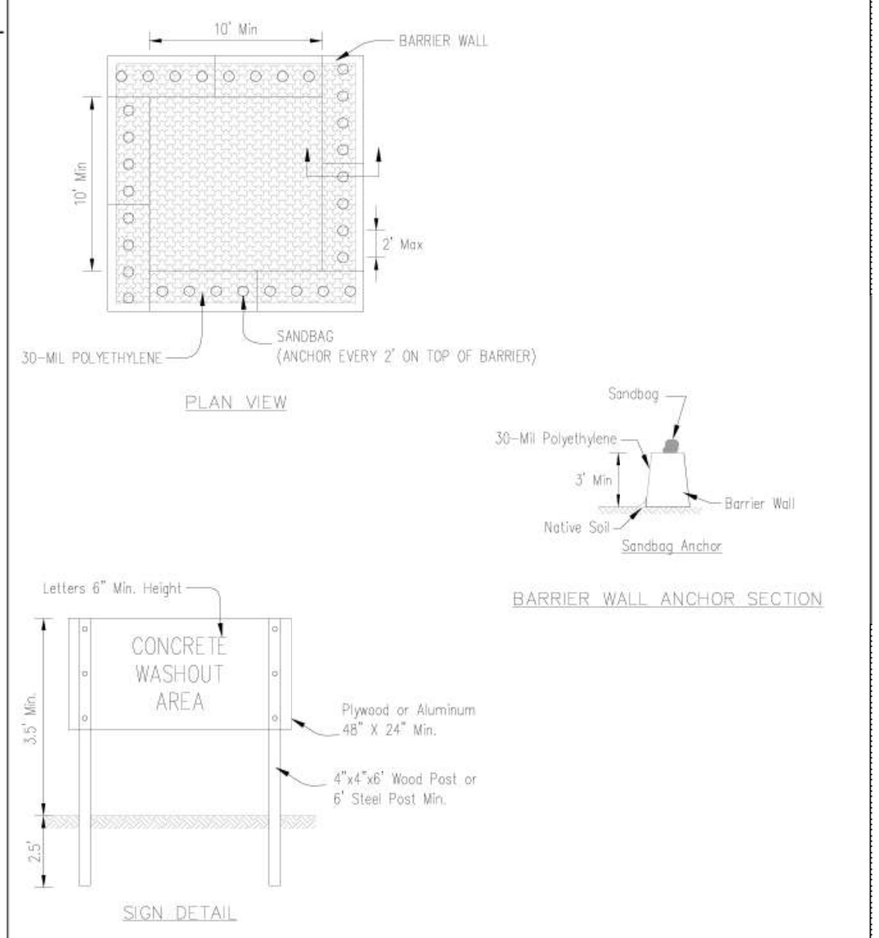
MAINTENANCE
- Periodically inspect the mats to make sure they maintain their structural integrity.

REFERENCES

Related Practices
- Practice 901 Culverts.
- Practice 902 Bridges.
- Practice 903 Fords/Low Water Crossings.

Other Sources of Information
- CBBEL Files.

Last Print/Revision Date: October 13, 1996



NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the faciliities to a functional condition.

2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 3 of 3 | Drawing No. | File No. ILM-654BW

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL

Designed ____ Drawn B. JOHNSON 6/08 Checked ____ Approved ____

TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/24/2022	DATE -	REVISED -

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
DETAILS

SCALE: N.T.S. | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	107
		CONTRACT NO.61H87		
		ILLINOIS FED. AID PROJECT		

MODEL: Default

PLAN | SURVEYED | BY | DATE
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

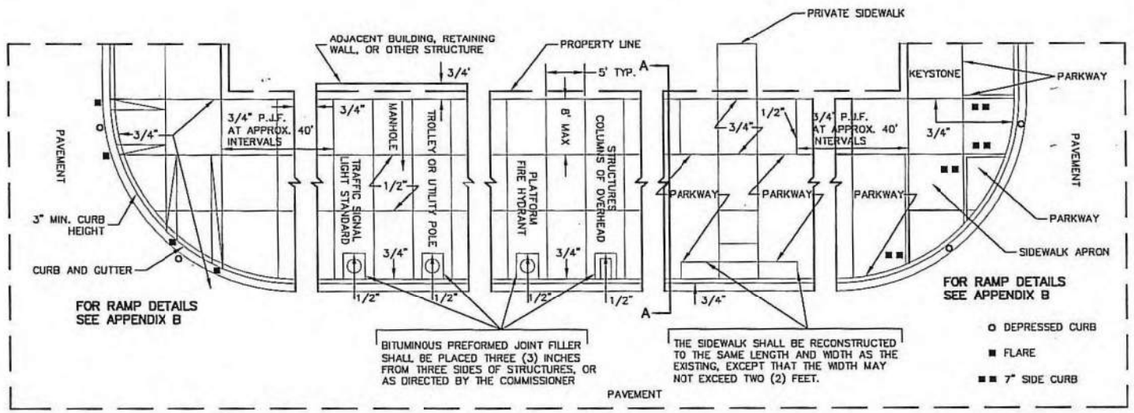
PROFILE | SURVEYED | BY | DATE
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

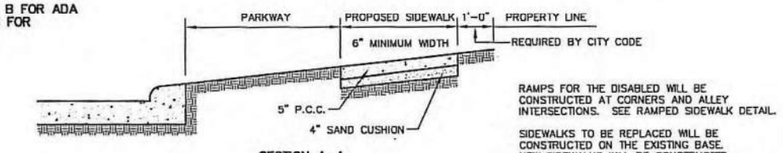
REVISION	DATE
–	–
–	–

CITY OF CHICAGO	DATE	DRAWN BY
P.C. CONCRETE SIDEWALK JOINT DETAILS	12/22/06	CDOT
	SHEET A-3-2	

DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION



SEE APPENDIX B FOR ADA REQUIREMENTS FOR SIDEWALKS.

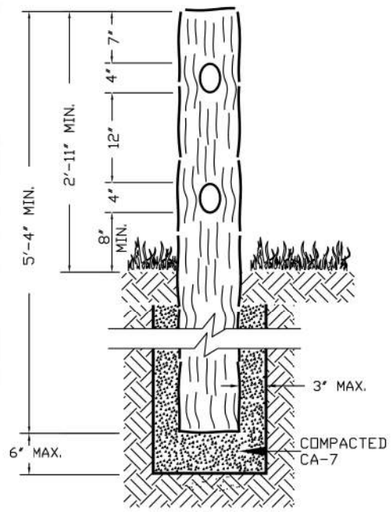


SECTION A–A

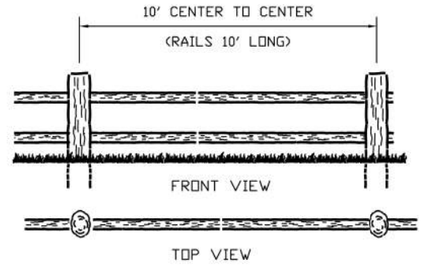
RAMPS FOR THE DISABLED WILL BE CONSTRUCTED AT CORNERS AND ALLEY INTERSECTIONS. SEE RAMPED SIDEWALK DETAIL.

SIDEWALKS TO BE REPLACED WILL BE CONSTRUCTED ON THE EXISTING BASE. NEW SIDEWALKS WILL BE CONSTRUCTED ON A 4" SAND CUSHION.

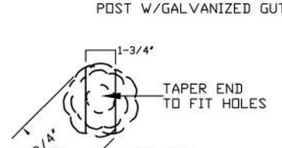
* THE 1/2" AND 3/4" DIMENSIONS REFER TO THE THICKNESS OF THE BITUMINOUS PREFORMED JOINT FILLER REQUIRED AT THE VARIOUS LOCATIONS.



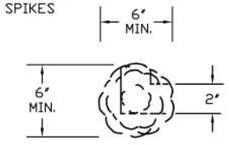
POST



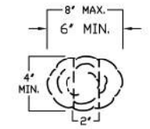
NOTE: ALL RAILS SHALL BE SPIKED TO POST W/GALVANIZED GUTTER SPIKES



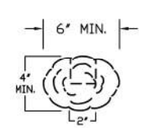
RAIL-END (TYP.)



CORNER POST-TOP (TYP.)



LINE POST-TOP (TYP.)



END POST-TOP (TYP.)

WOOD POST AND RAIL FENCE DETAIL

N.T.S.

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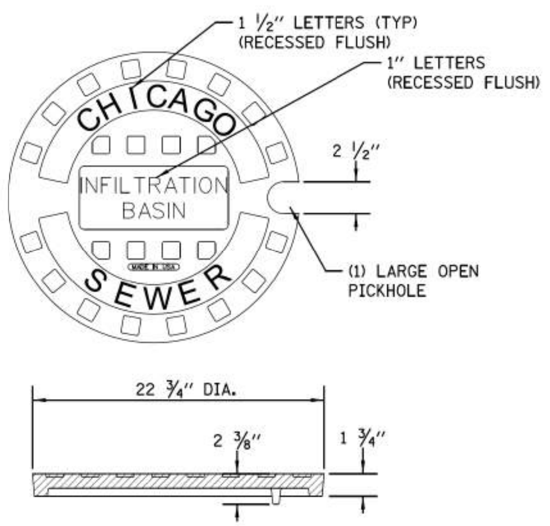
TERRA ENGINEERING LTD.			
USER NAME = DavidL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/6/2022	DATE -	REVISED -	

FOREST PRESERVE DISTRICT OF COOK COUNTY

DES PLAINES RIVER TRAIL SEGMENT 3
DETAILS

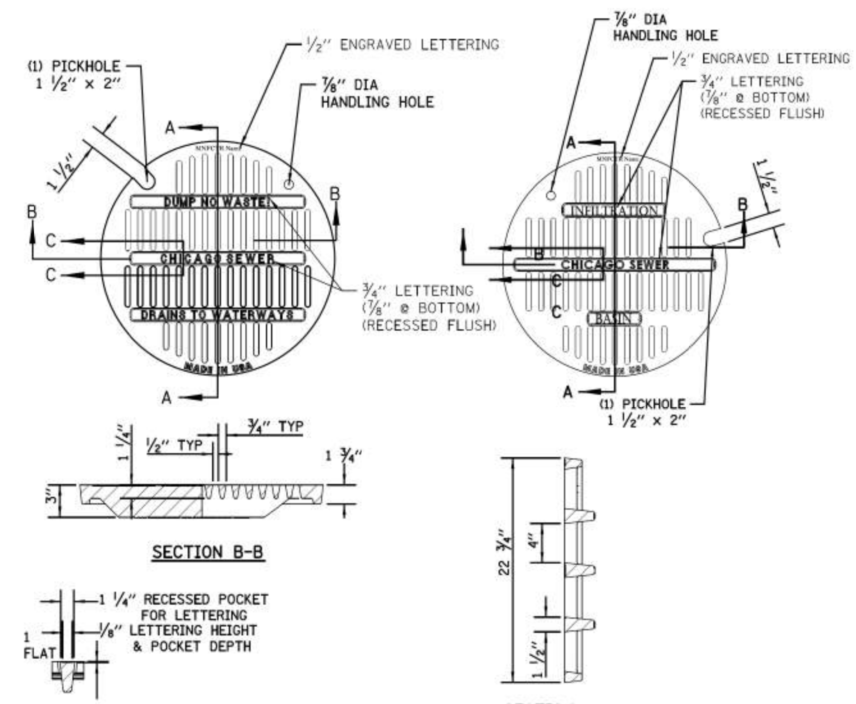
SCALE: N.T.S. | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	108
		CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			



COVER SECTION

INFILTRATION SOLID LID FOR CATCH BASIN



SECTION B-B

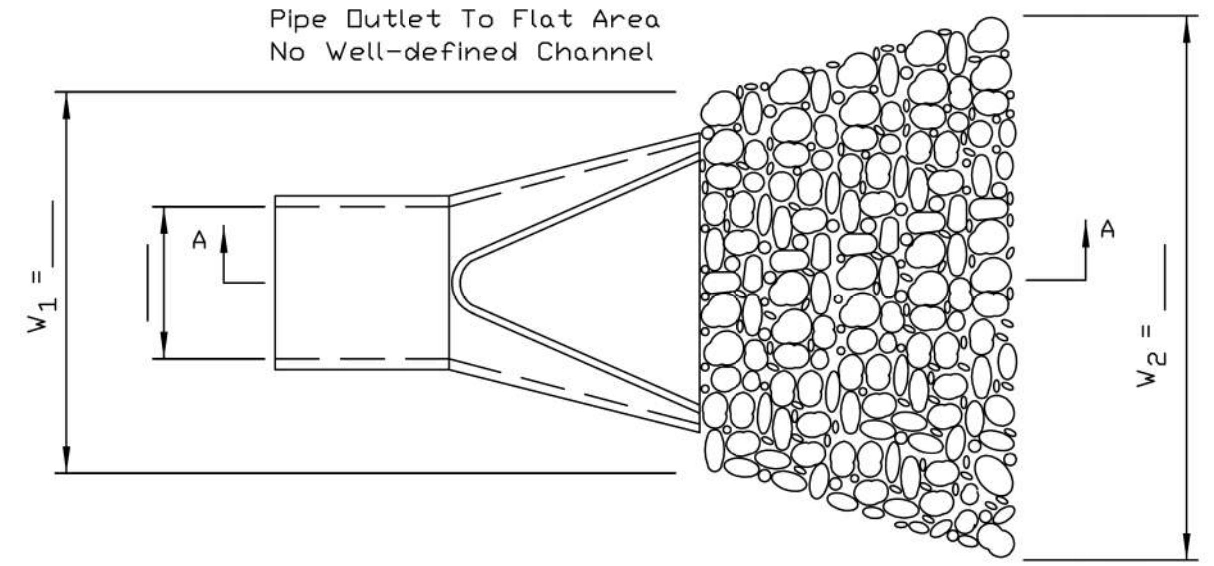
SECTION C-C

SECTION A-A

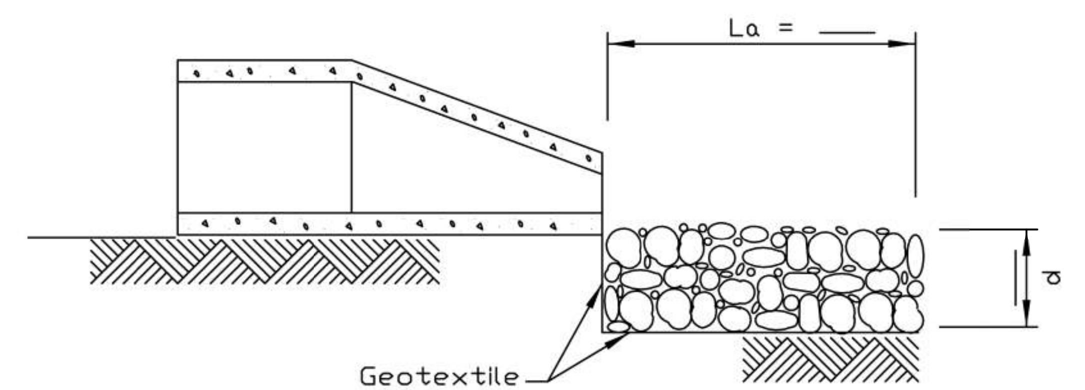
MATERIALS
GRATE-GRAY IRON
ASTM A48 CL35B
DESIGN LOAD
HEAVY DUTY
COATING
UNDIPPED
OPEN AREA
85.6 SQ. IN.

STANDARD LID FOR STORM ONLY/ INFILTRATION SYSTEMS

PIPE OUTLET TO FLAT AREA



PLAN



SECTION A-A

NOTES:

1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class I, II or III .
2. The rock riprap shall shall meet the IDOT requirements for the following gradation: RR ________ , Quality ________ .
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

TERRA ENGINEERING LTD.	USER NAME = JuanS	DESIGNED -	REVISED -	FOREST PRESERVE DISTRICT OF COOK COUNTY
		DRAWN -	REVISED -	
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	PLOT DATE = 5/24/2022	DATE -	REVISED -	

DES PLAINES RIVER TRAIL SEGMENT 3
DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	109
		CONTRACT NO.61H87		
ILLINOIS	FED. AID PROJECT			

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

PROFILE | NOTE BOOK NO.___ | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KED | BY | DATE

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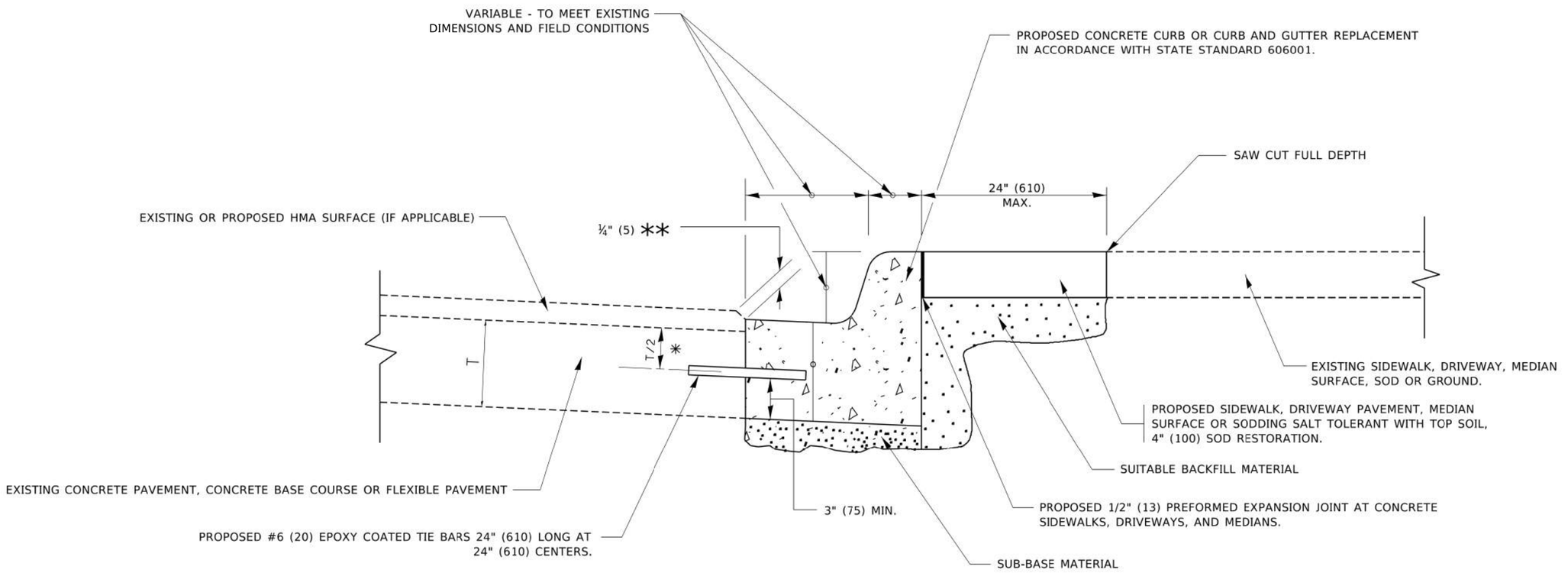

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** 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.

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

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

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		DRAWN -	REVISED - M. GOMEZ 01-22-01		
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	PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19		SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

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	ILLINOIS FED. AID PROJECT			

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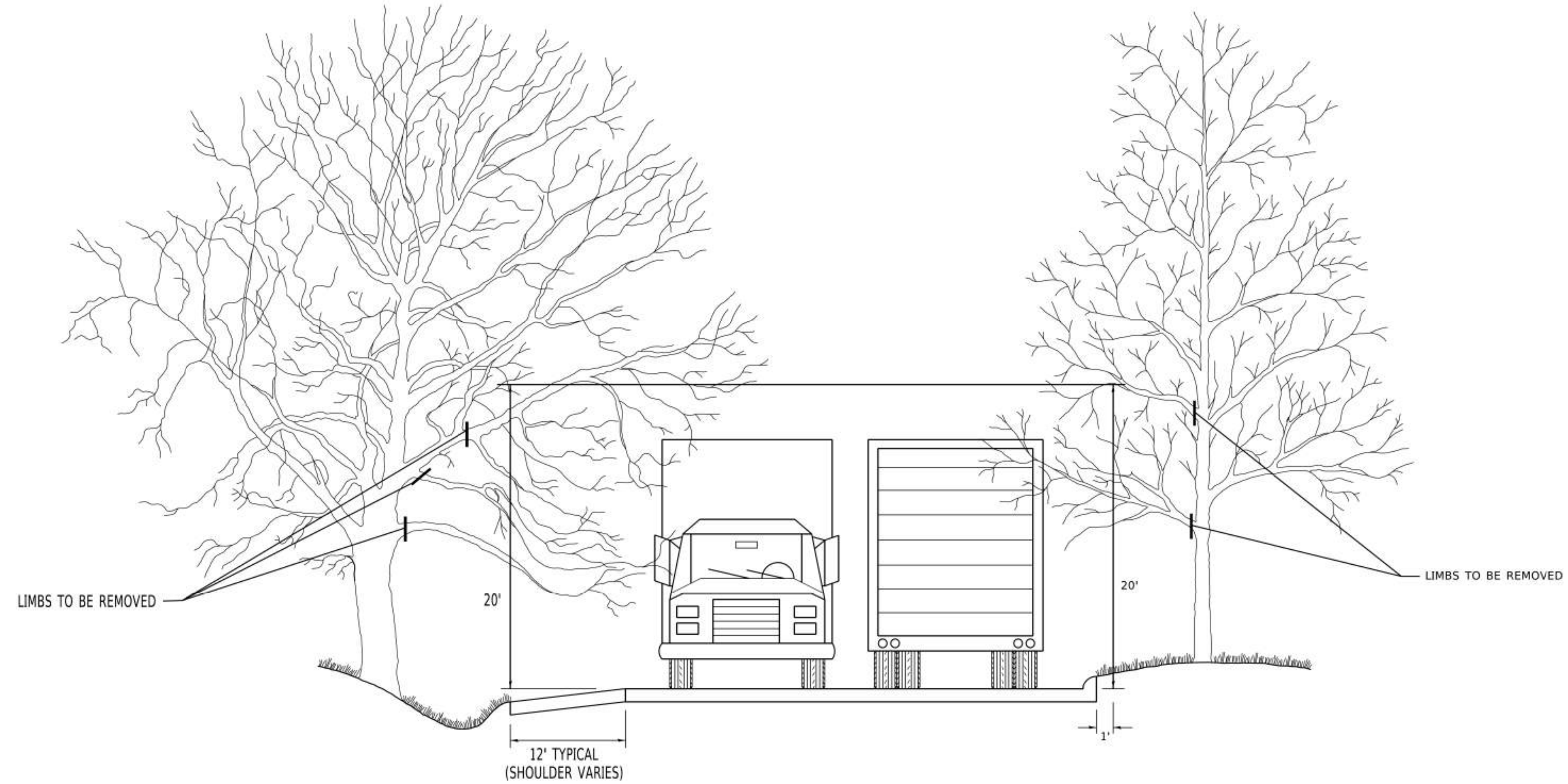

TERRA ENGINEERING LTD.	USER NAME = footemj	DESIGNED -	REVISED - R. BORO 10-31-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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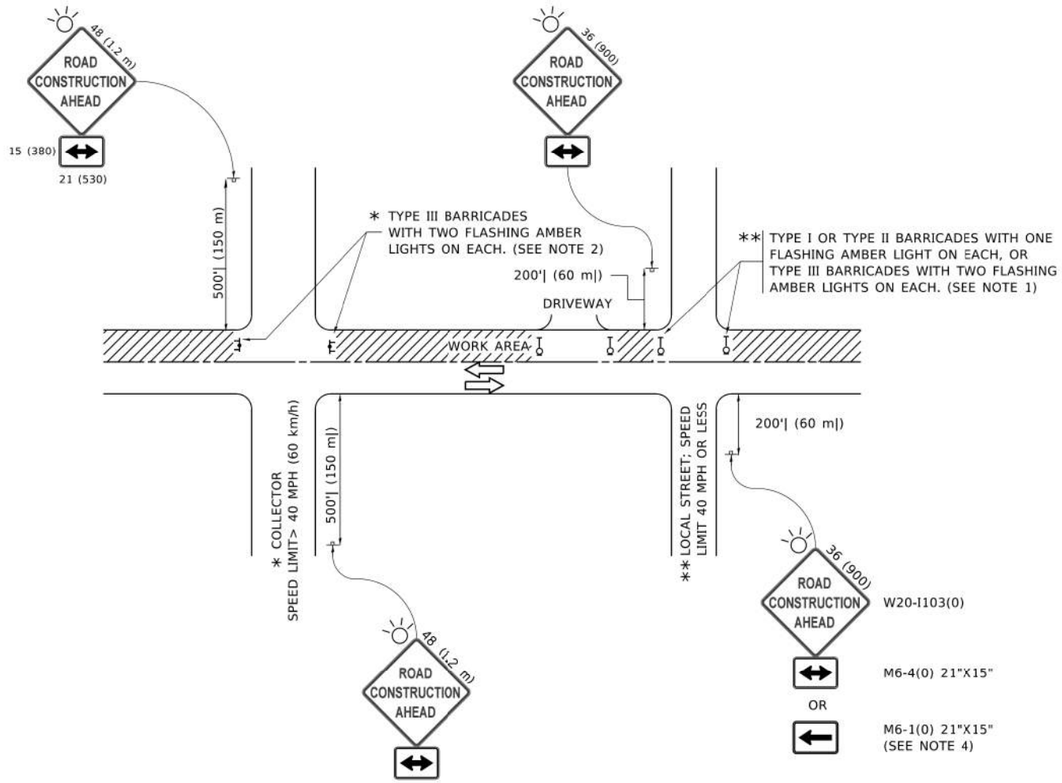

NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

PLAN | SURVEYED | PLOTTED | DESIGNER CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | DESIGNER CHECKED | E.M. NOTED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO. | BY | DATE

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TERRA ENGINEERING LTD.

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	112
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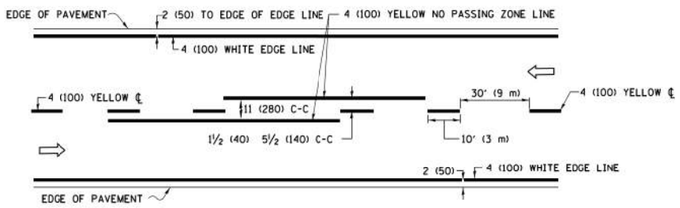
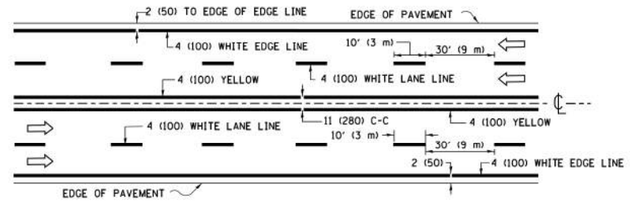
	ILLINOIS FED. AID PROJECT			

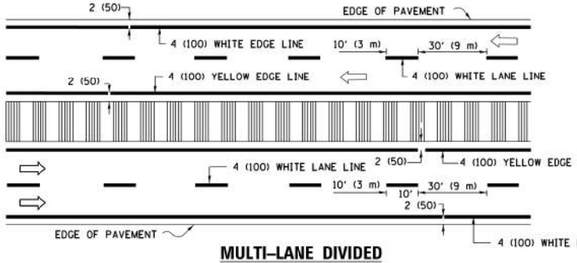
tc10.dgn 3/4/2019 10:27:07 AM User=footemj



2–LANE ROADWAY

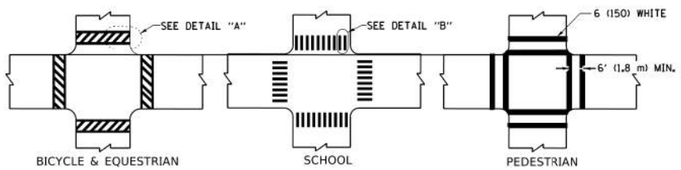


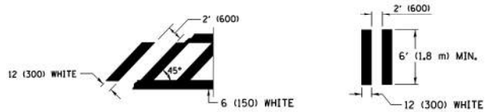
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

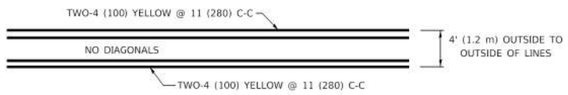




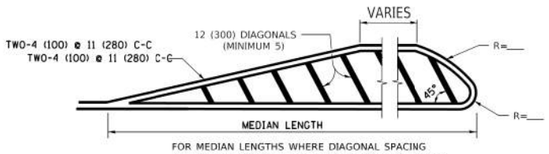
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



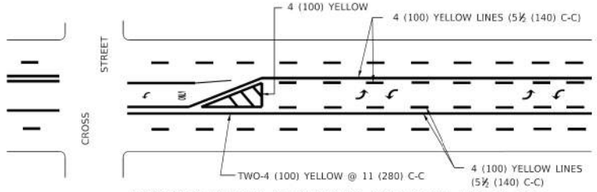
4' (1.2 m) WIDE MEDIANS ONLY



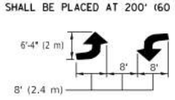
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

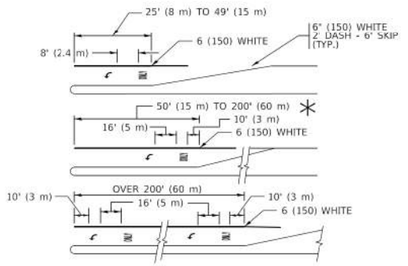


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

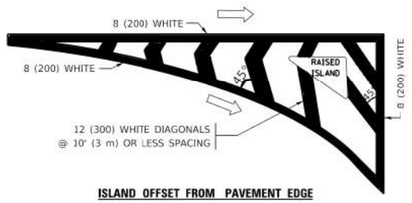


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

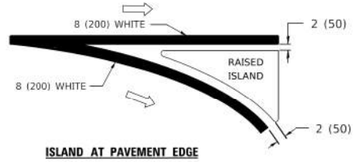
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

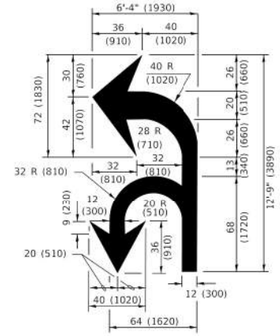


ISLAND OFFSET FROM PAVEMENT EDGE

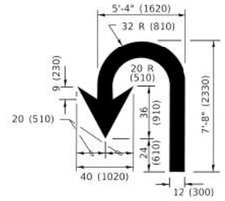


ISLAND AT PAVEMENT EDGE

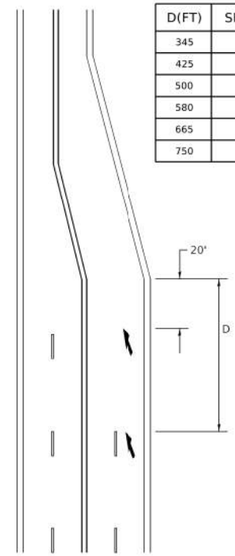
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

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

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

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

PLAN / PROFILE — SURVEYED, PLOTTED, CROSS SECTIONS CHECKED, BM: NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO.____, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CAiDD FILE NAME, BY, DATE

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOTDocuments\IDOT Offices\District 1\Projects\Dist15st22x34\CADData\CADsheets\tc13.dgn

TERRA ENGINEERING LTD.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - C. JUCIUS 07-01-13			17-00034-03-BT / COOK / 129 / 113
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15			TC–13 / CONTRACT NO.61H87
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16		SCALE: NONE / SHEET 1 OF 2 SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

tc13.dgn 3/4/2019 10:34:37 AM User=footemj

ROUTE MARKERS

- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH	M3-1-2412
EAST	M3-2-2412
SOUTH	M3-3-2412
WEST	M3-4-2412
DETOUR	M4-8-2412

DETOUR

MAJOR STREET

MINOR STREET

STATE ROUTE

COMPLETELY CLOSED PORTION

PARTIALLY CLOSED PORTION

W20-2-4848 DETOUR AHEAD

W20-4-4848 DETOUR AHEAD

W20-2-4848 DETOUR AHEAD

W20-3-4848 ROAD CLOSED AHEAD

W20-2-4848 DETOUR AHEAD

W20-3-4848 ROAD CLOSED 500 FT

W20-4-4848 DETOUR AHEAD

W20-3-4848 ROAD CLOSED AHEAD

R11-2-4830 ROAD CLOSED

TYPE III BARICADES *

M4-10L-4818 DETOUR

R11-2-4830 ROAD CLOSED

R11-4-6030 ROAD CLOSED TO THRU TRAFFIC

M4-10R-4818 DETOUR

M4-8A END DETOUR

300'

500'

200'

* 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.

PLAN — SURVEYED, PLOTTED, DESIGN CHECKED, R/W AGMT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DESIGN CHECKED, BM. NOTED, STRUCTURE NO(S). CHKD, NOTE BOOK, NO., BY, DATE

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FILE NAME: pw:\\LOB4EBIDNTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\d22x34\CADData\CADsheets\stc21.dgn

TERRA ENGINEERING LTD.	USER NAME = footemj	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
		DRAWN -	REVISED - R. BORO 09-14-09		
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.
	PLOT DATE = 3/4/2019	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	114
	TC-21	CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

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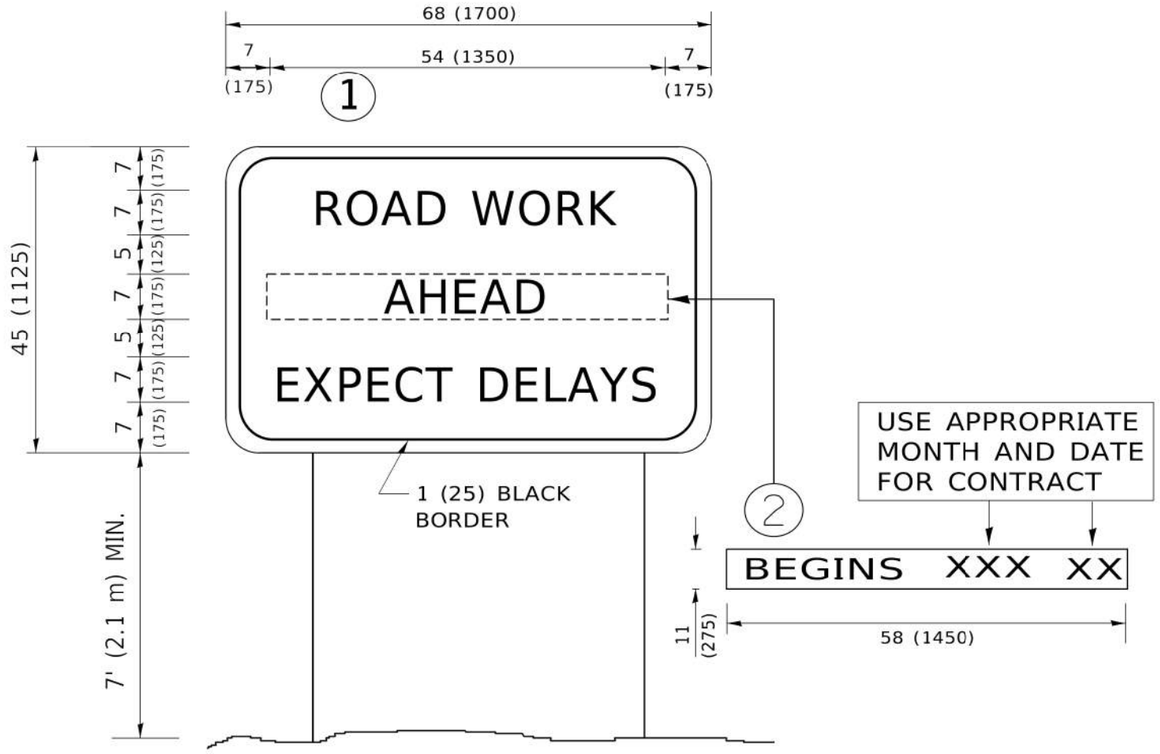


NOTES:

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

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

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

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEG.illinois.gov:PWIDOTDocuments\IDOT Offices\District 1\Projects\Dist50222x14\CADData\CADSheets\tc22.dgn

TERRA ENGINEERING LTD.

USER NAME = footemj	DESIGNED -	REVISED -	R. MIRS 09-15-97
	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

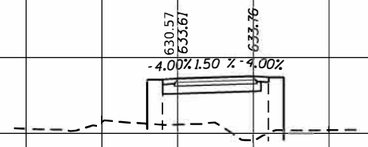
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

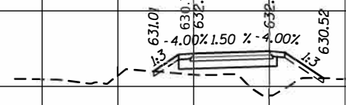
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	17-00034-03-BT	COOK	129	115
	TC-22	CONTRACT NO.61H87		
	ILLINOIS FED. AID PROJECT			

tc22.dgn 3/4/2019 10:48:10 AM User=footemj



296+00.00



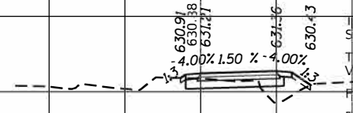
TOPSOIL FURNISH AND PLACE, SPECIAL=0.7 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.4 SQ. FT.

FURNISHED EXCAVATION=2.9 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.1 SQ. FT.

295+50.00



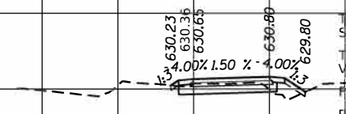
TOPSOIL FURNISH AND PLACE, SPECIAL=0.7 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.4 SQ. FT.

FURNISHED EXCAVATION=2.9 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.1 SQ. FT.

295+00.00



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TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.6 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.2 SQ. FT.

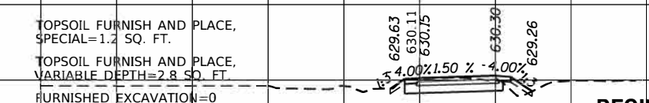
294+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.8 SQ. FT.

FURNISHED EXCAVATION=0

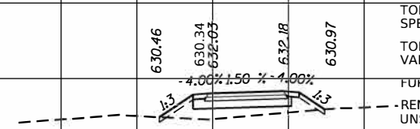
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=11.4 SQ. FT.



294+00.00

BEGIN PROJECT STA. 294+00.00

629.19



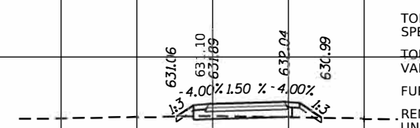
TOPSOIL FURNISH AND PLACE, SPECIAL=3.6 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.5 SQ. FT.

FURNISHED EXCAVATION=8.5 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0

305+00.00



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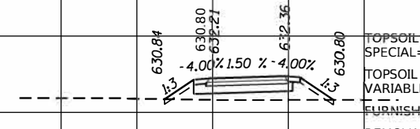
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=1.4 SQ. FT.

304+50.00



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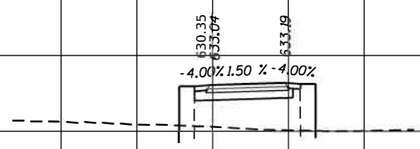
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.7 SQ. FT.

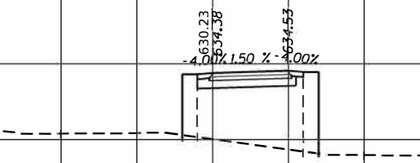
FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=1.4 SQ. FT.

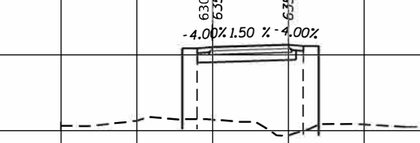
304+00.00



303+50.00



303+00.00



296+50.00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

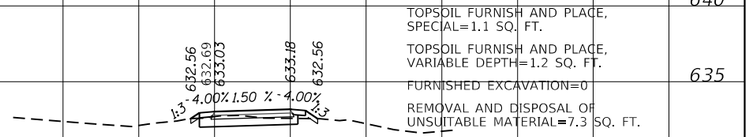
SCALE: 1"=10' H 1"=5'V SHEET 1 OF 11 SHEETS STA. 294+00 TO STA. 305+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	116
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: XS1
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN



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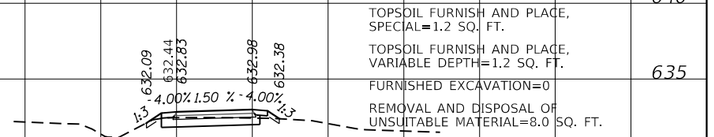
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.3 SQ. FT.

307+50.00



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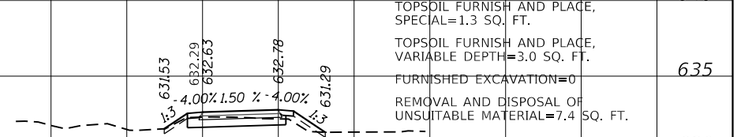
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.0 SQ. FT.

307+00.00



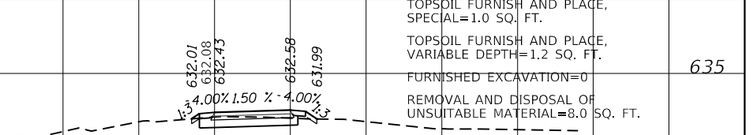
TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.4 SQ. FT.

306+50.00



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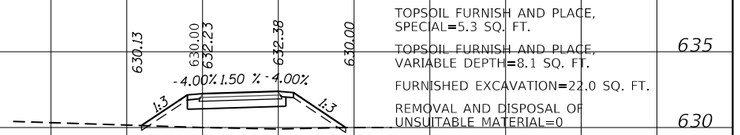
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.0 SQ. FT.

306+00.00



TOPSOIL FURNISH AND PLACE, SPECIAL=5.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=8.1 SQ. FT.

FURNISHED EXCAVATION=22.0 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0

305+50.00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

USER NAME = DavidL	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/3/2022	DATE -	REVISED -	

TERRA ENGINEERING LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

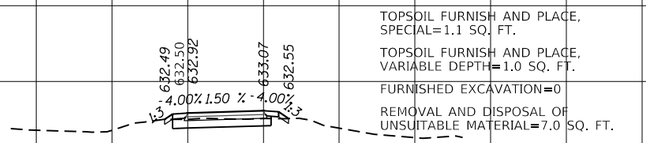
SCALE: 1"=10' H 1"=5' | SHEET 2 OF 11 SHEETS | STA. 305+50.00 TO STA. 307+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	117
		CONTRACT NO. 61H87		
		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

MODEL: XS2
FILE NAME: M:\2020\20-202 CIBBEL FPOCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-PeIlm\Design\Transportation\CADD\CADD Sheets\XS\SHT-XS200048 TO-10.DGN



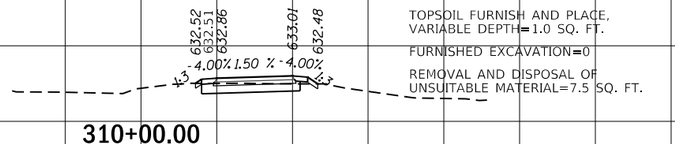
TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.0 SQ. FT.

310+50.00



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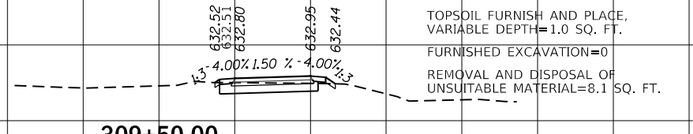
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.5 SQ. FT.

310+00.00



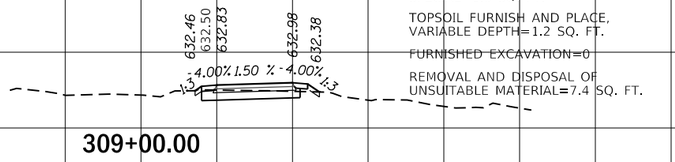
TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.1 SQ. FT.

309+50.00



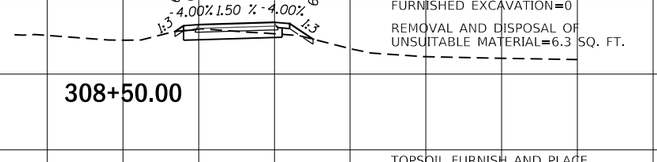
TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.4 SQ. FT.

309+00.00



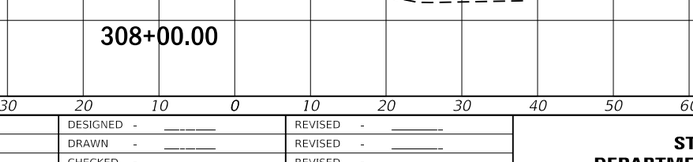
TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.3 SQ. FT.

308+50.00



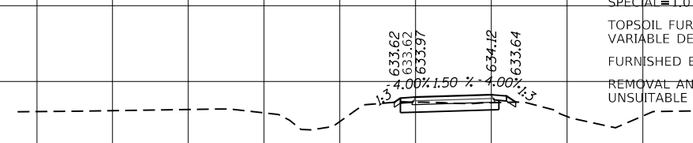
TOPSOIL FURNISH AND PLACE, SPECIAL=1.5 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.5 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.0 SQ. FT.

308+00.00



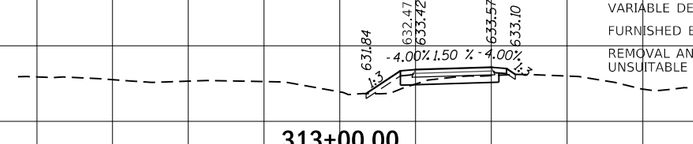
TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.2 SQ. FT.

313+50.00



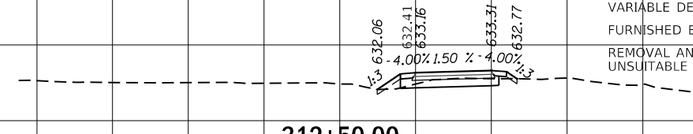
TOPSOIL FURNISH AND PLACE, SPECIAL=4.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0.2 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.2 SQ. FT.

313+00.00



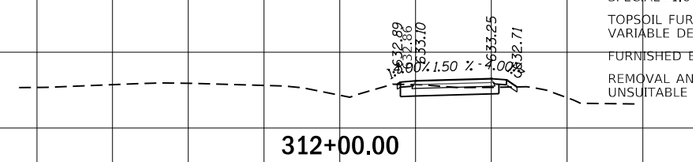
TOPSOIL FURNISH AND PLACE, SPECIAL=2.4 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.6 SQ. FT.

312+50.00



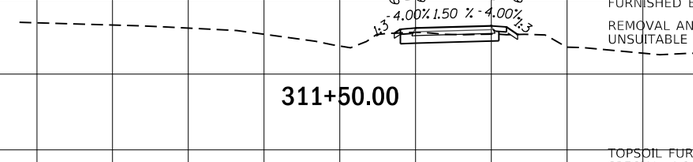
TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.5 SQ. FT.

312+00.00



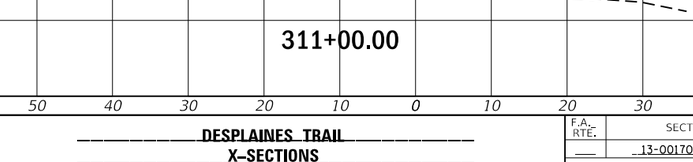
TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.3 SQ. FT.

311+50.00



TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.7 SQ. FT.

311+00.00

640 635 630

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED - _____	REVISED - _____
		DRAWN - _____	REVISED - _____
	PLOT SCALE = 20.0000 ' / in.	CHECKED - _____	REVISED - _____
	PLOT DATE = 6/3/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 3 OF 11 SHEETS | STA. 308+00.00 | TO STA. 313+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	13-00170-00-RS	COOK	129	118

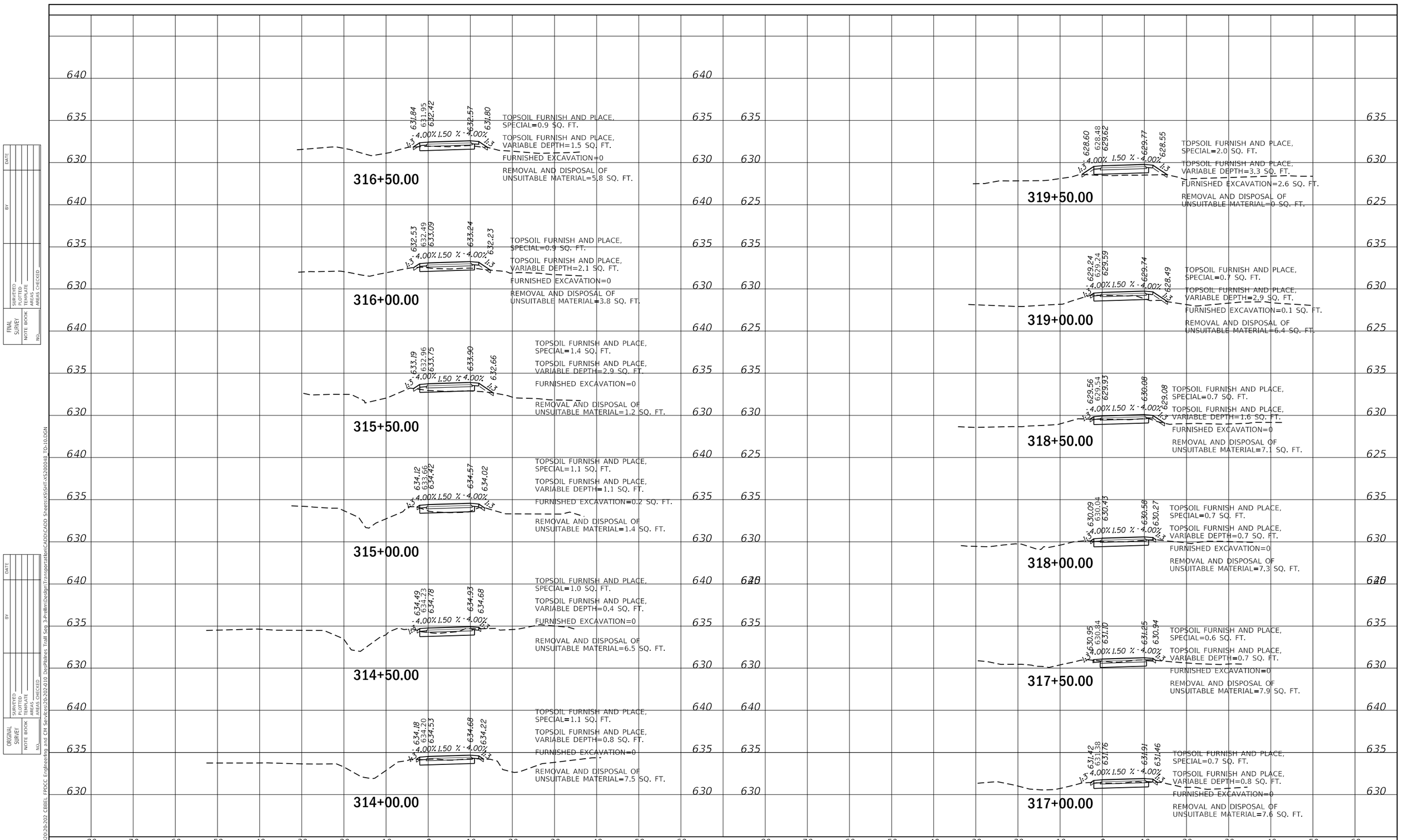
CONTRACT NO. 61H87

ILLINOIS | FED. AID PROJECT

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

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

MODEL: XS3
FILE NAME: M2 2020-20-202 CBBEL FPDCC Engineering and CM Services\20-202-410 DesPlaines Trail\ Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN



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

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

MODEL: XS4
FILE NAME: M:_2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XS\SHT-XS200048 TO-10.DGN

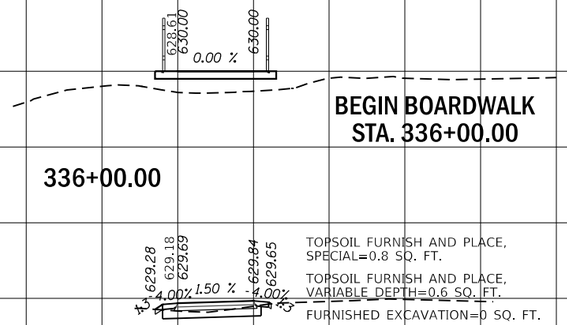
TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED - _____	REVISED - _____
		DRAWN - _____	REVISED - _____
	PLOT SCALE = 20.0000 ' / in.	CHECKED - _____	REVISED - _____
	PLOT DATE = 6/3/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' V | SHEET 4 OF 11 SHEETS | STA. 314+00.00 | TO STA. 319+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	13-00170-00-RS	COOK	129	119
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

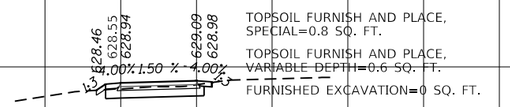


BEGIN BOARDWALK
STA. 336+00.00

336+00.00

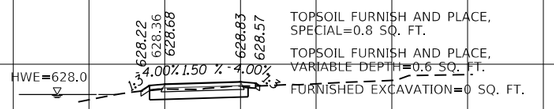
TOPSOIL FURNISH AND PLACE, SPECIAL=0.8 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.6 SQ. FT.
FURNISHED EXCAVATION=0 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.4 SQ. FT.

335+50.00



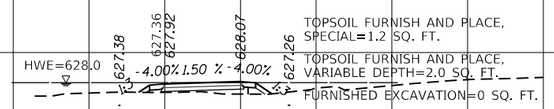
TOPSOIL FURNISH AND PLACE, SPECIAL=0.8 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.6 SQ. FT.
FURNISHED EXCAVATION=0 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.5 SQ. FT.

335+00.00



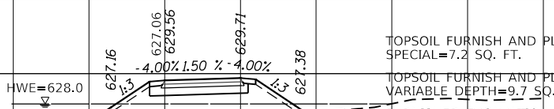
TOPSOIL FURNISH AND PLACE, SPECIAL=0.8 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.6 SQ. FT.
FURNISHED EXCAVATION=0 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.6 SQ. FT.

334+50.00



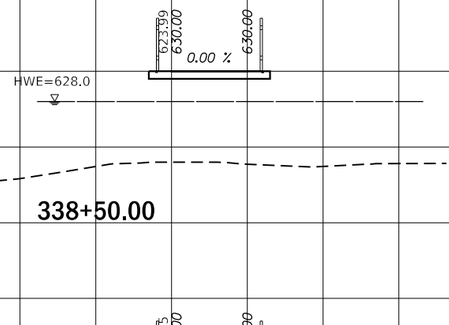
TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.0 SQ. FT.
FURNISHED EXCAVATION=0 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0 SQ. FT.

320+50.00

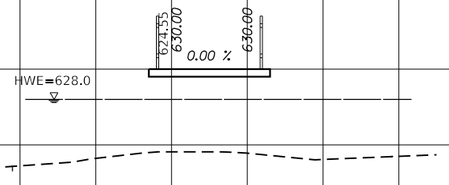


TOPSOIL FURNISH AND PLACE, SPECIAL=7.2 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=9.7 SQ. FT.
FURNISHED EXCAVATION=25.1 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0 SQ. FT.

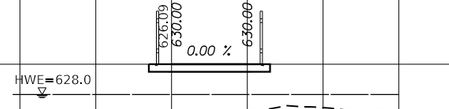
320+00.00



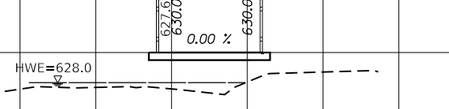
338+50.00



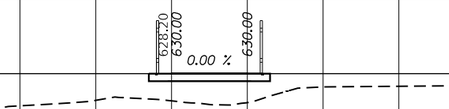
338+00.00



337+50.00



337+00.00



336+50.00

635 630 625 620

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

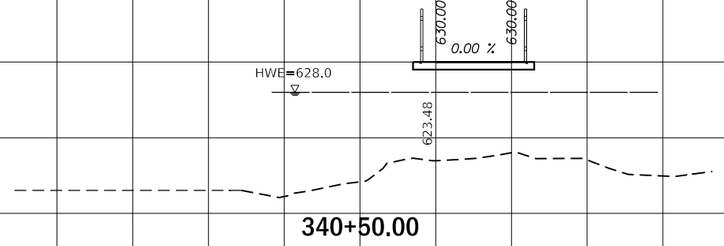
DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 5 OF 11 SHEETS | STA. 320+00.00 | TO STA. 338+50.00

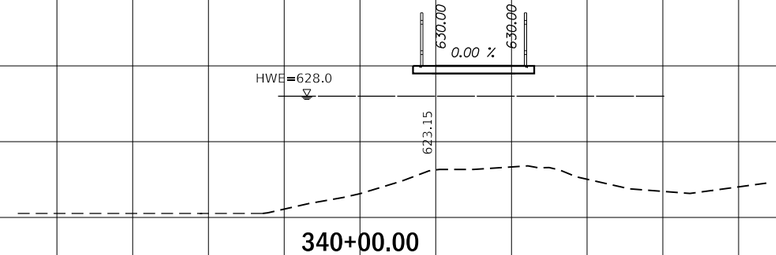
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	120
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

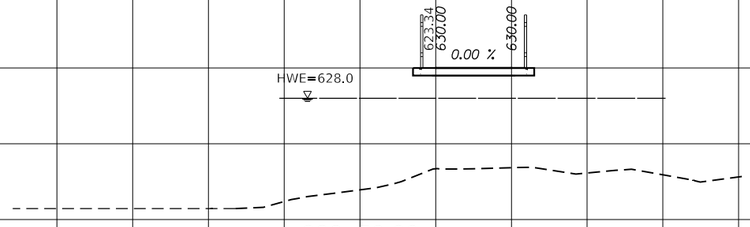
MODEL: XS5
FILE NAME: M:\2020\20-202 CBBEL FPOCC Engineering and CM Services\20-202-010 Desplaines Trail Seg 3-Pavilion\Design\Transportation\CADD\CADD Sheets\XSISHT-XS200048 TO-10.DGN



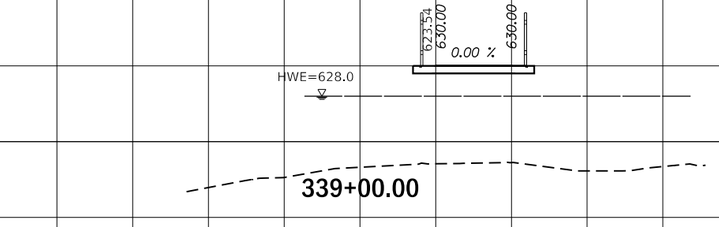
340+50.00



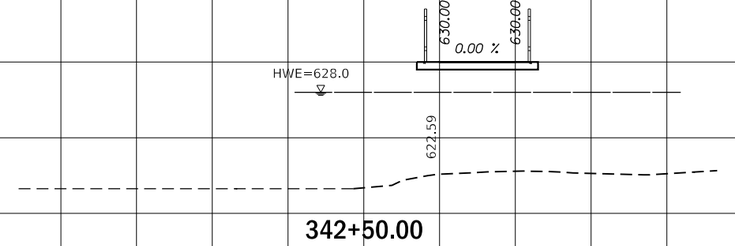
340+00.00



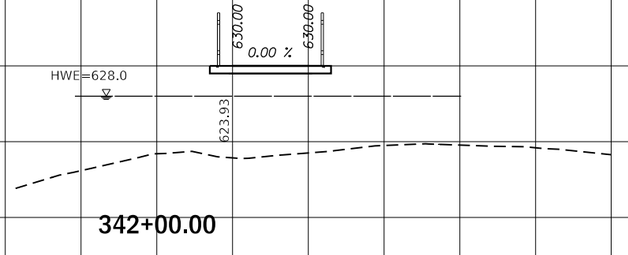
339+50.00



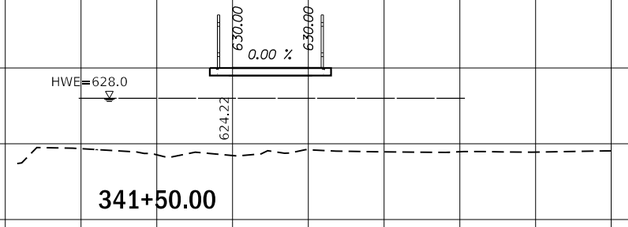
339+00.00



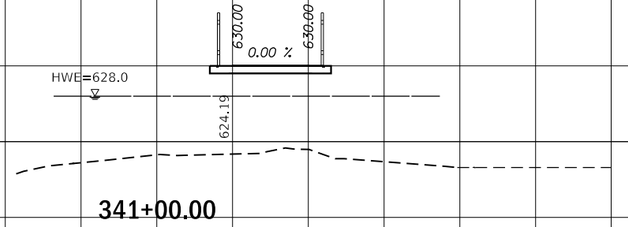
342+50.00



342+00.00



341+50.00



341+00.00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

635 630 625 620

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

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

MODEL: X56
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN

TERRA ENGINEERING LTD.

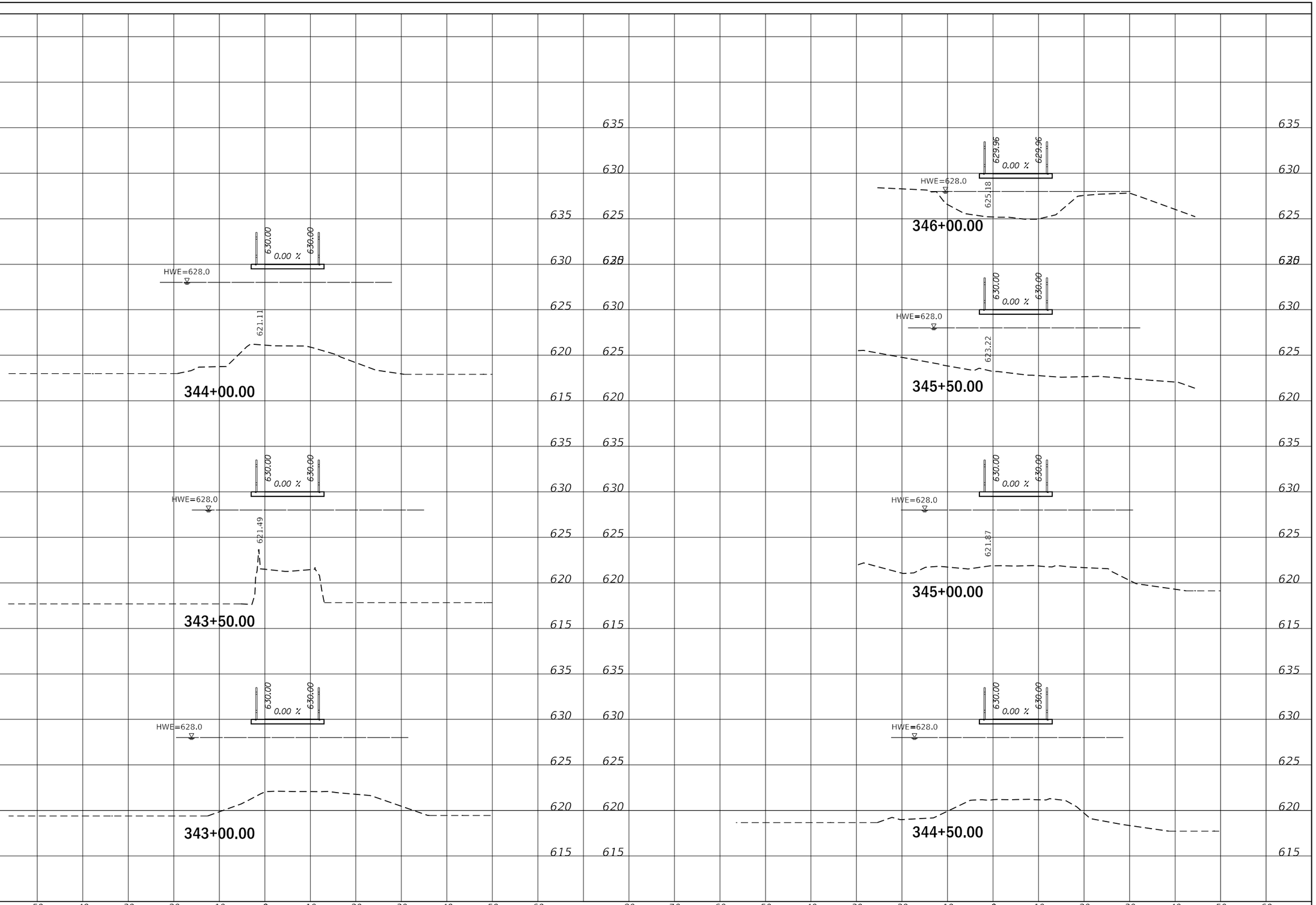
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 6 OF 11 SHEETS | STA. 339+00.00 | TO STA. 342+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	13-00170-00-RS	COOK	129	121
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	



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

MODEL: XS7
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XS\SHT-XS200048 TO-10.DGN

TERRA ENGINEERING LTD.

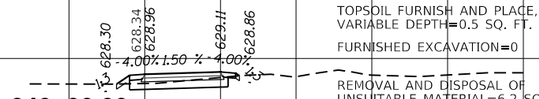
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 7 OF 11 SHEETS | STA. 343+00.00 | TO STA. 346+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	122
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	



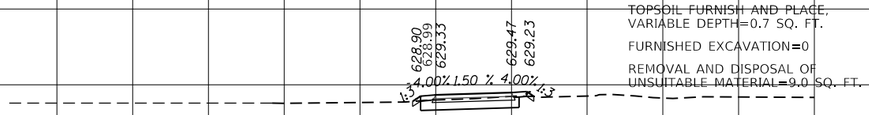
TOPSOIL FURNISH AND PLACE, SPECIAL=1.4 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.5 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.2 SQ. FT.

349+00.00



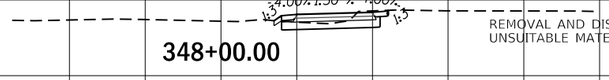
TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.0 SQ. FT.

348+50.00



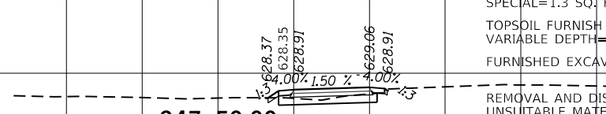
TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.4 SQ. FT.

348+00.00



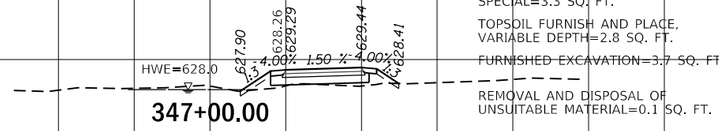
TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.6 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.6 SQ. FT.

347+50.00



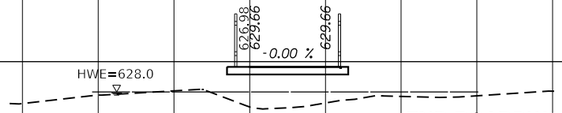
TOPSOIL FURNISH AND PLACE, SPECIAL=3.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.8 SQ. FT.

FURNISHED EXCAVATION=3.7 SQ. FT.

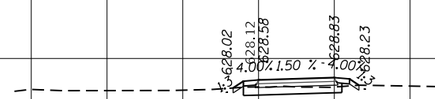
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0.1 SQ. FT.

347+00.00



346+50.00

END BOARDWALK
STA. 346+50.00



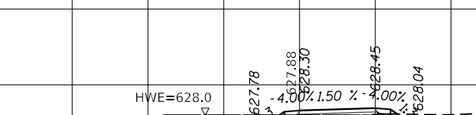
TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.1 SQ. FT.

352+00.00



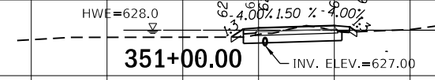
TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.1 SQ. FT.

351+50.00



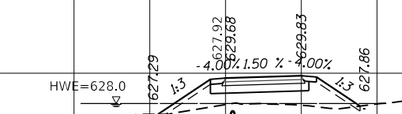
TOPSOIL FURNISH AND PLACE, SPECIAL=1.4 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.8 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.6 SQ. FT.

351+00.00



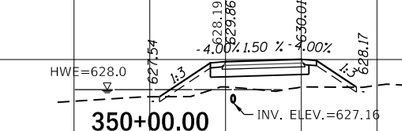
TOPSOIL FURNISH AND PLACE, SPECIAL=6.4 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=7.2 SQ. FT.

FURNISHED EXCAVATION=12.8 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=

350+50.00



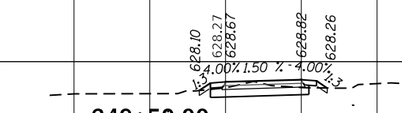
TOPSOIL FURNISH AND PLACE, SPECIAL=6.8 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=5.7 SQ. FT.

FURNISHED EXCAVATION=13.2 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0

350+00.00



TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.1 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.7 SQ. FT.

349+50.00

635 630 625 — 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

USER NAME = DavidL	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 20.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 6/9/2022	DATE - _____	REVISED - _____	

TERRA ENGINEERING LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

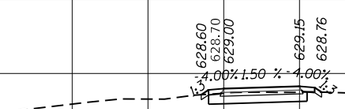
DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 8 OF 11 SHEETS | STA. 346+50.00 | TO STA. 352+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	13-00170-00-RS	COOK	129	123
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

MODEL: XSB
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-4\10 Desplaines Trail\ Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XS\SHT-XS200048 TO-10.DGN



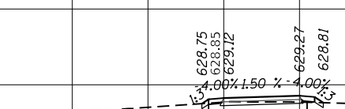
355+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.7 SQ. FT.



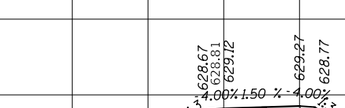
354+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.9 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.7 SQ. FT.



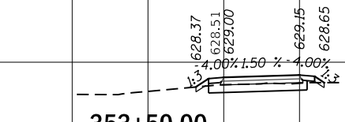
354+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.4 SQ. FT.



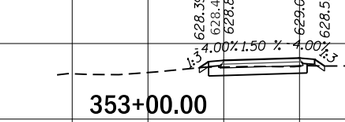
353+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.4 SQ. FT.



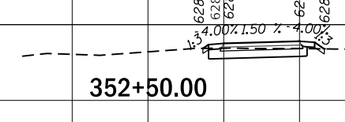
353+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.8 SQ. FT.



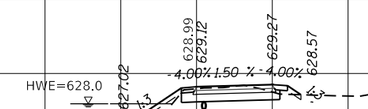
352+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.9 SQ. FT.



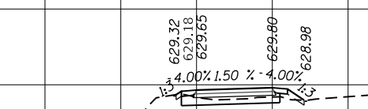
358+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=4.4 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.4 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=10.7 SQ. FT.



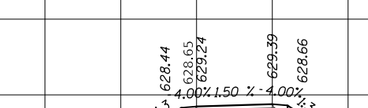
357+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.6 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.2 SQ. FT.



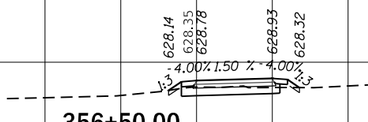
357+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.6 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.8 SQ. FT.



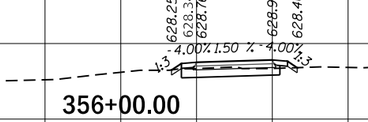
356+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.4 SQ. FT.



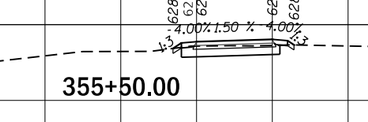
356+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.0 SQ. FT.



355+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.5 SQ. FT.

635 630 625

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

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

ORIGINAL SURVEY

FINAL SURVEY

MODEL: XS9
FILE NAME: M:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-4\10 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN

TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 20.0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 6/9/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

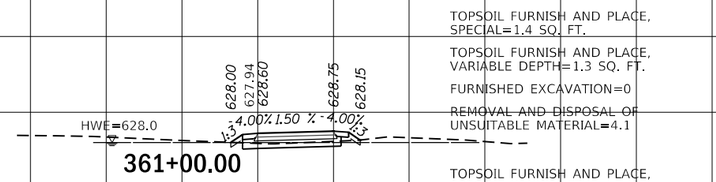
DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 9 OF 11 SHEETS | STA. 352+50.00 TO STA. 358+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	13-00170-00-RS	COOK	129	124

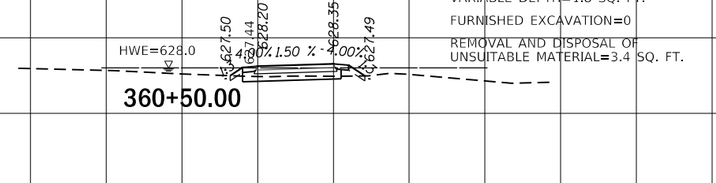
CONTRACT NO. 61H87

ILLINOIS | FED. AID PROJECT



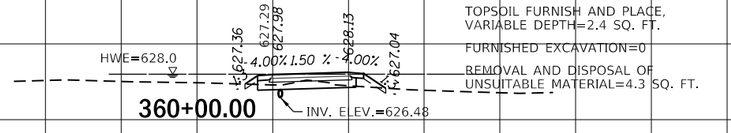
361+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.4 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.3 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.1



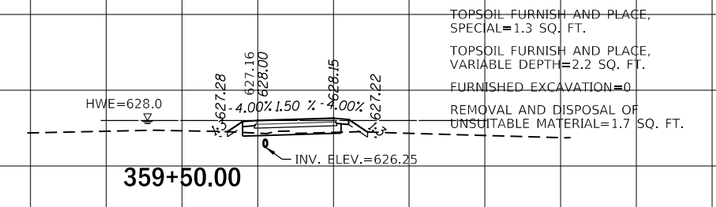
360+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.4 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.8 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=3.4 SQ. FT.



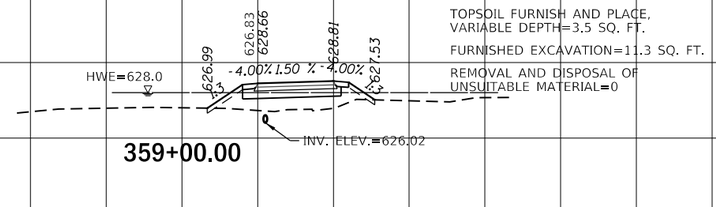
360+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.4 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.3 SQ. FT.



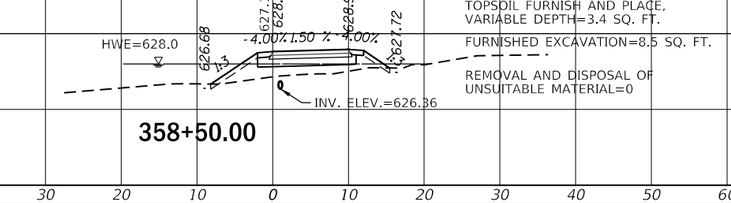
359+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.2 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=1.7 SQ. FT.



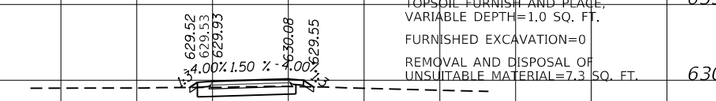
359+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=4.2 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.5 SQ. FT.
FURNISHED EXCAVATION=11.3 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0



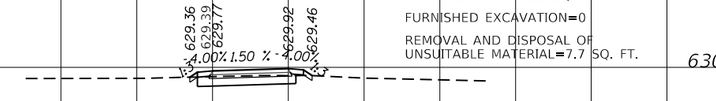
358+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=5.8 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.4 SQ. FT.
FURNISHED EXCAVATION=8.5 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=0



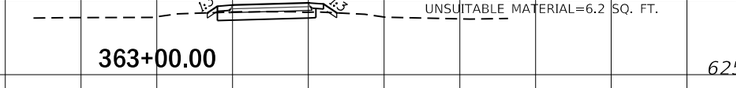
364+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.3 SQ. FT.



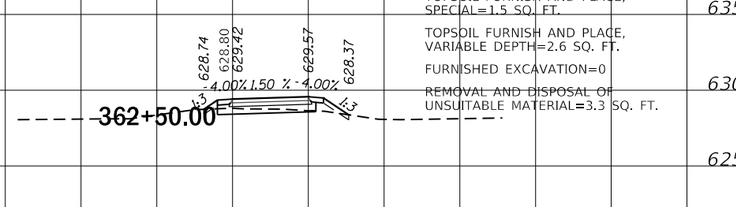
363+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.9 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.7 SQ. FT.



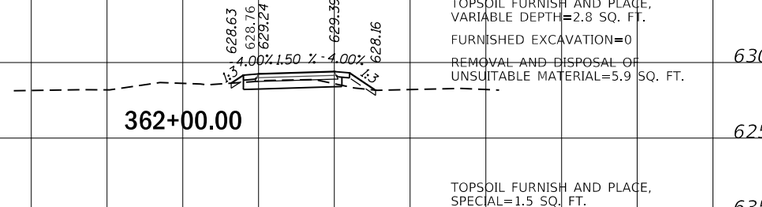
363+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.2 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.3 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.2 SQ. FT.



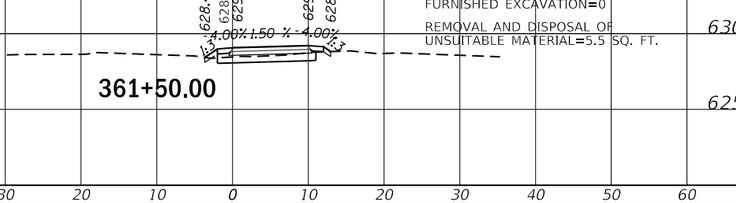
362+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.5 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.6 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=3.3 SQ. FT.



362+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.3 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.8 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.9 SQ. FT.



361+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.5 SQ. FT.
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.8 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.5 SQ. FT.

635 630 625

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED - _____	REVISED - _____
		DRAWN - _____	REVISED - _____
	PLOT SCALE = 20.0000 ' / in.	CHECKED - _____	REVISED - _____
	PLOT DATE = 6/9/2022	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

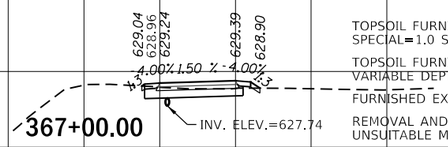
DESPLAINES TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' | SHEET 10 OF 11 SHEETS | STA. 358+50.00 | TO STA. 364+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	13-00170-00-RS	COOK	129	125
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

MODEL: XS10
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPlaines Trail\ Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN



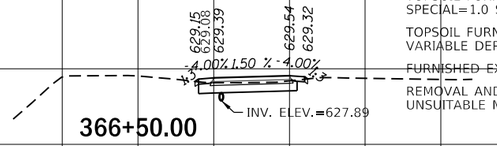
367+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.6 SQ. FT.



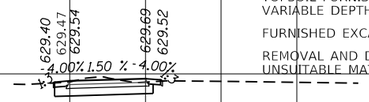
366+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.4 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.4



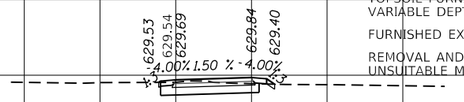
366+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.3 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=12.5 SQ. FT.



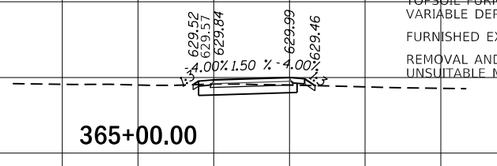
365+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=0.8 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=10.0 SQ. FT.



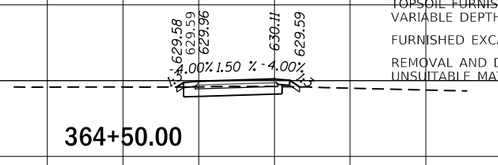
365+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.2 SQ. FT.



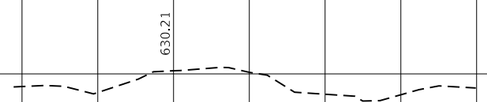
364+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=1.1 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.0 SQ. FT.

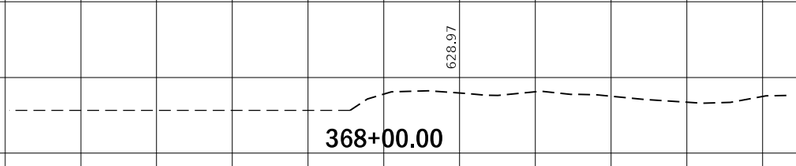
FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.6 SQ. FT.

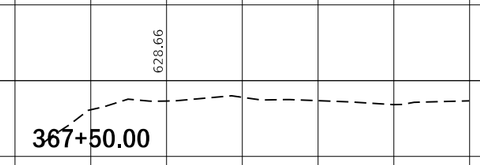


369+00.00

368+50.00



368+00.00



367+50.00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

635 630 625

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

MODEL: XS11
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-410 DesPlaines Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10.DGN

TERRA ENGINEERING LTD.

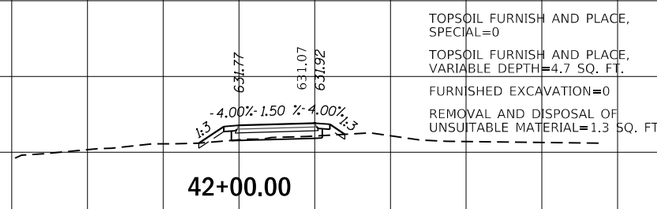
USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/9/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESPLAINES TRAIL
X-SECTIONS

SCALE: 1''=10' H 1''=5' SHEET 11 OF 11 SHEETS STA. 364+50.00 TO STA. 369+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	126
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	



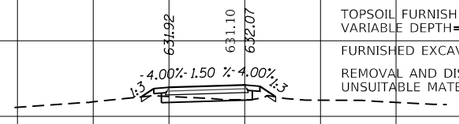
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=4.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=1.3 SQ. FT.

42+00.00



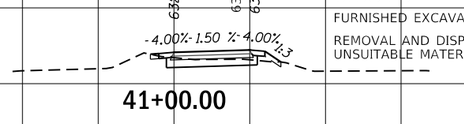
TOPSOIL FURNISH AND PLACE, SPECIAL=0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=2.4 SQ. FT.

41+50.00



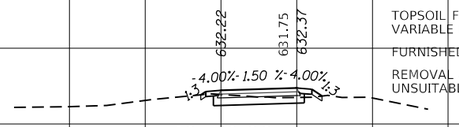
TOPSOIL FURNISH AND PLACE, SPECIAL=0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.4 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.7 SQ. FT.

41+00.00



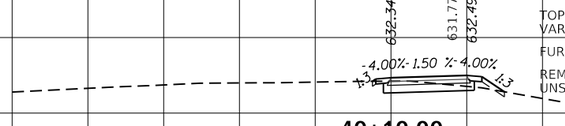
TOPSOIL FURNISH AND PLACE, SPECIAL=0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.9 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.2 SQ. FT.

40+50.00



TOPSOIL FURNISH AND PLACE, SPECIAL=0 SQ. FT.

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.8 SQ. FT.

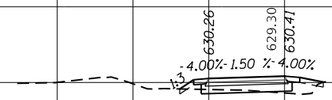
FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.8 SQ. FT.

40+10.00

BEGIN PROJECT
STA. 40+10.00

40+00.00



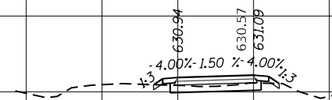
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=5.2 SQ. FT.

FURNISHED EXCAVATION=0.3 SQ. FT.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=1.5 SQ. FT.

45+00.00



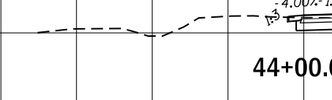
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.0 SQ. FT.

44+50.00



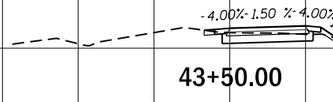
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.5 SQ. FT.

44+00.00



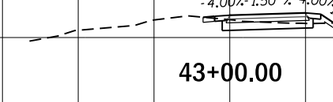
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.1 SQ. FT.

43+50.00



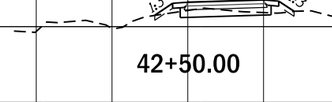
TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.2 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.7 SQ. FT.

43+00.00



TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.3 SQ. FT.

42+50.00

640 635 630 625 620

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPUR TRAIL
X-SECTIONS

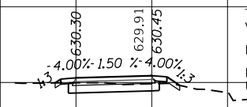
SCALE: 1"=10' H 1"=5'V SHEET 1 OF 3 SHEETS STA. 40+00.00 TO STA. 45+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	127
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

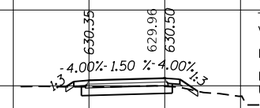
FINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

MODEL: Spur_XS1
FILE NAME: H:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 Des\Plans\ Trail Seg 3-Prelim\Design\Transportation\CADD\CADD Sheets\XSlSHT-XS2000A8 TO-10 Spur.DGN



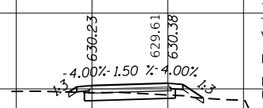
48+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.9 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.7 SQ. FT.



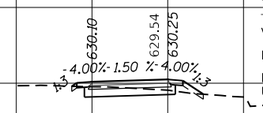
47+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.5 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=6.3 SQ. FT.



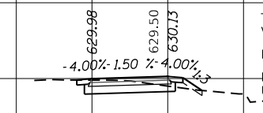
47+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.1 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=4.9 SQ. FT.



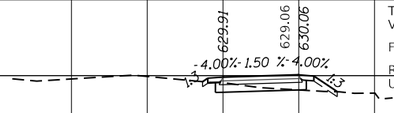
46+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.9 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=5.9 SQ. FT.



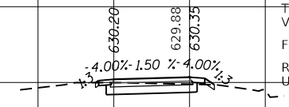
46+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.3 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.4 SQ. FT.



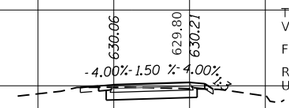
45+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=3.7 SQ. FT.
FURNISHED EXCAVATION=0.2 SQ. FT.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=3.3 SQ. FT.



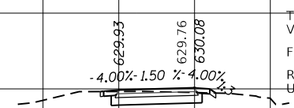
51+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.6 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.9 SQ. FT.



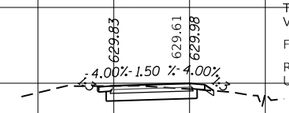
50+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.6 SQ. FT. SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.5 SQ. FT.



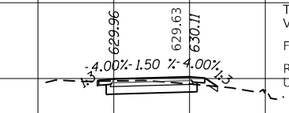
50+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.2 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.6 SQ. FT.



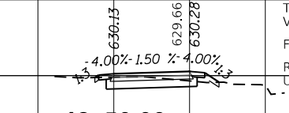
49+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.6 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=10.5 SQ. FT.



49+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.0 SQ. FT.



48+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0
TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.2 SQ. FT.
FURNISHED EXCAVATION=0
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.5 SQ. FT.

635 / 630 / 625

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

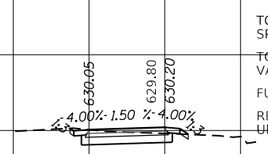
SPUR TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' V | SHEET 2 OF 3 SHEETS | STA. 45+50.00 | TO STA. 51+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	128
		CONTRACT NO. 61H87		
		ILLINOIS	FED. AID PROJECT	

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

MODEL: Spur_XS2
FILE NAME: M:\ 2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPhases Trail\ Seq 3-PrelimDesign\Transportation\CADD\CADD Sheets\XSSht-XS200048 TO-10 Spur.DGN



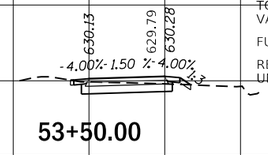
54+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.6 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=9.9 SQ. FT.



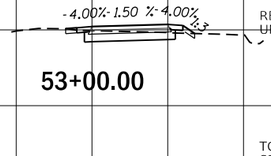
53+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.7 SQ. FT.



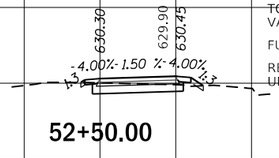
53+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.1 SQ. FT.



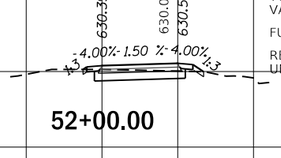
52+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.0 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.0 SQ. FT.



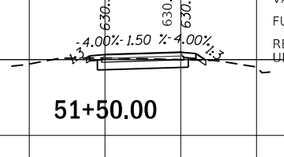
52+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.8 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.4 SQ. FT.



51+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=7.8 SQ. FT.

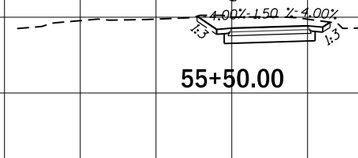
55+56.25

SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=2.4 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=24.2 SQ. FT.



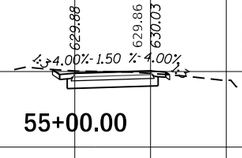
55+50.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.7 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=14.1 SQ. FT.



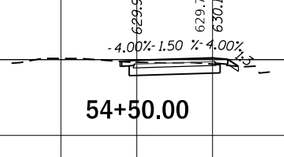
55+00.00

TOPSOIL FURNISH AND PLACE, SPECIAL=0

TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH=1.5 SQ. FT.

FURNISHED EXCAVATION=0

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL=8.9 SQ. FT.



54+50.00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

TERRA ENGINEERING LTD.	USER NAME = DavidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPUR TRAIL
X-SECTIONS

SCALE: 1"=10' H 1"=5' V | SHEET 3 OF 3 SHEETS | STA. 51+50.00 TO STA. 56+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00170-00-RS	COOK	129	129
		CONTRACT NO. 61H87		
		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

MODEL: Spur_X53
FILE NAME: H:\2020\20-202 CBBEL FPDCC Engineering and CM Services\20-202-010 DesPhase Trail Seg 3-Preliminary\Design\Transportation\CADD\CADD Sheets\XSSHT-XS200048 TO-10 Spur.DGN