F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53*	1
	ILLINOIS	CONTRACT NO. 66A79		

*53 + 1 = 54 TOTAL SHEETS

D-93-029-11

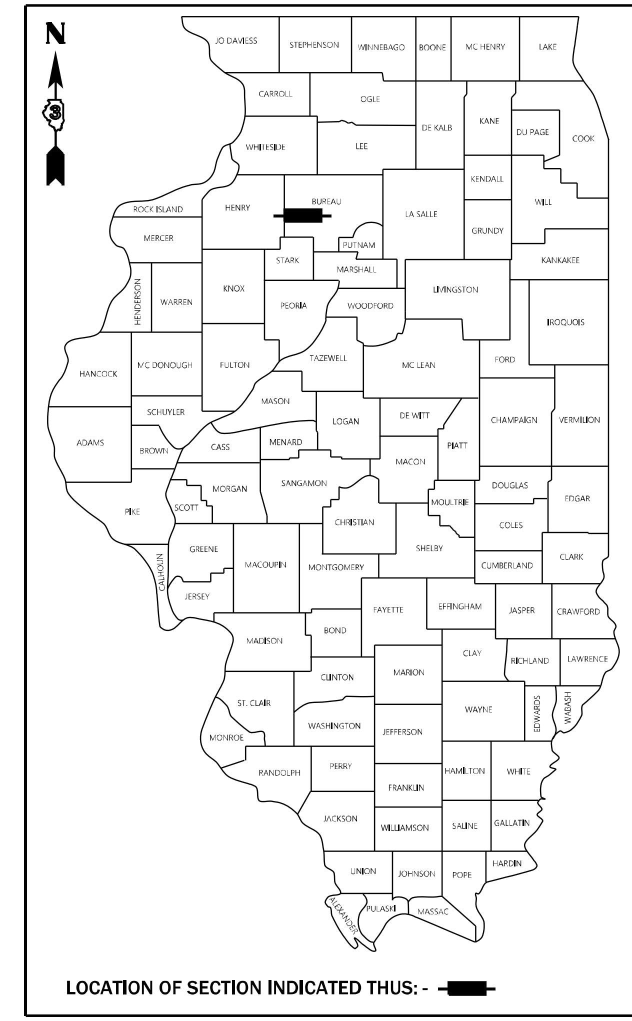
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

PROPOSED HIGHWAY PLANS

FAS 1247 (U.S. ROUTE 6)
SECTION (5, 6, 7, 8) RS-5
PROJECT STP-AU46(124)
US 6 RESURFACING WITH DRAINAGE REPAIRS - MINERAL TO SHEFFIELD
BUREAU COUNTY

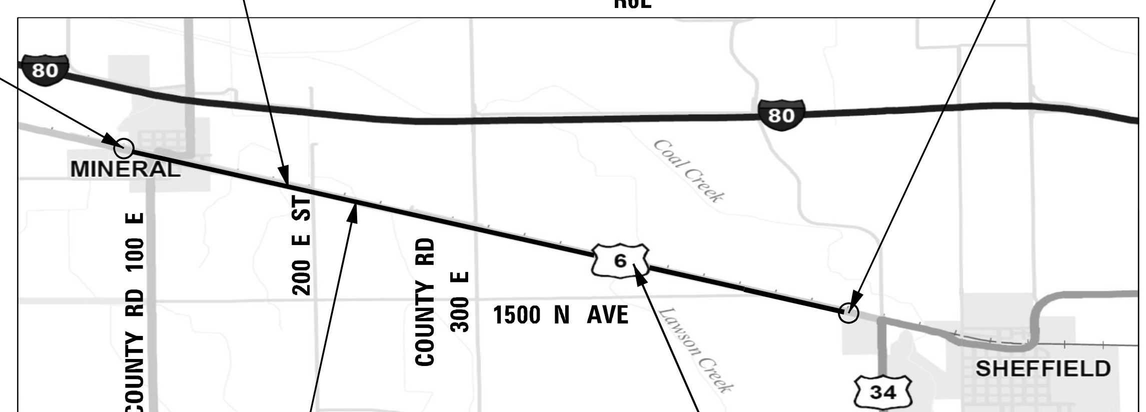
C-93-036-11



CULVERT S.N. 006-2555
STA 945+75

BEGIN PROJECT
STA 895+18

END PROJECT
STA 1143+71



CULVERT S.N. 006-2009
STA 971+47

CULVERT S.N. 006-2010
STA 1066+09

GROSS LENGTH = 24,853 FT. = 4.707 MILES
NET LENGTH = 24,853 FT. = 4.707 MILES

FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
2019 ADT = 850
P.U. = 92.94% S.U. = 4.71% M.U. = 2.35%
DESIGN SPEED = 55 MPH

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 17, 20 22

REGIONAL ENGINEER

March 25 20 22

ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 22

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

TRANSMART, INC.
THOMAS M. WALSH, P.E.
#062-054595
DATE: 1/24/2022
SIGNATURE AND SEAL APPLY TO DRAWINGS: 1-37, 42-53
EXPIRATION DATE: 11-30-2023

THOMAS M. WALSH 062-054595 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

TRANSMART, INC.
ZHANG CHEN, S.E.
#081-008528
DATE: 1/24/2022
SIGNATURE AND SEAL APPLY TO DRAWINGS: 38-41
EXPIRATION DATE: 11-30-2022

ZHANG CHEN 081-008528 LICENSED STRUCTURAL ENGINEER OF STATE OF ILLINOIS

PREPARED BY:
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JOE KANNEL, P.E.
UNIT CHIEF: JORDAN LONGNECKER
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66A79

IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" THRU 72" EQUIV. DIAMETER
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630201-07	PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

1. THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO DISTRICT DETAILS AS PROVIDED IN THE PLANS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

2. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

3. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

4. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

5. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

6. SHORT TERM PAVEMENT MARKING SHALL BE USED AT THE EXISTING CENTERLINE FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

7. ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

8. ALL ELEVATIONS ARE REFERRING TO NAVD88 DATUM.

9. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
HMA RESURFACING	112	LBS/SQ YD/IN
SHORT TERM PAVEMENT MARKING	10	FT/100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS/SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS/SQ YD
FERTILIZER NUTRIENTS	90	LB/ACRE

10. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE.

11. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

12. IF, DURING THE GRINDING OR RESURFACING OPERATIONS, THE EXISTING MAILBOXES BECOME A HINDRANCE, THE CONTRACTOR SHALL BE REQUIRED TO CAREFULLY REMOVE AND REINSTALL THE MAILBOXES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR INCIDENTAL BITUMINOUS SURFACING.

13. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: AMERICAN NATURAL RESOURCES PIPELINE CO., KINDER MORGAN INC., GENESEO TELEPHON CO., WORLD WIDE FIBER, AMERITECH TELEPHONE CO., ILLINOIS POWER COMPANY, MEDIACOM.

14. NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: THE ILLINOIS DEPARTMENT OF TRANSPORTATION, VERIZON.

15. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.

16. ABANDONED UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

17. FOR PIPE CULVERTS WITH PERPENDICULAR WINGWALLS, THE STATIONS, OFFSETS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE TAKEN AT THE OUTSIDE EDGE OF THE WINGWALL. FOR PIPE CULVERTS WITH END SECTION TREATMENT, THE STATIONS AND OFFSETS SHOWN ON THE PLANS ARE TAKEN AT THE END OF THE PIPE / BEGINNING OF END SECTION. INVERT ELEVATIONS FOR END SECTIONS ARE TAKEN AT THE OUTSIDE EDGE OF SECTION WHERE IT MEETS THE DITCH.

COMMITMENTS

NO COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: DISTRICT STUDIES & PLANS ENGINEER

DATE:

EXAMINED BY: DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

CONST. CODE				
				80% FED 20% STATE
				ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004
				RURAL
20200100	EARTH EXCAVATION	CU YD	515	515
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	140	140
20400800	FURNISHED EXCAVATION	CU YD	230	230
20700220	POROUS GRANULAR EMBANKMENT	CU YD	225	225
20800150	TRENCH BACKFILL	CU YD	71	71
21400100	GRADING AND SHAPING DITCHES	FOOT	1660	1660
25000210	SEEDING, CLASS 2A	ACRE	0.7	0.7
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	61	61
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	61	61
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	61	61
25100630	EROSION CONTROL BLANKET	SQ YD	3020	3020
28000305	TEMPORARY DITCH CHECKS	FOOT	146	146
28000400	PERIMETER EROSION BARRIER	FOOT	4072	4072
28100107	STONE RIPRAP, CLASS A4	SQ YD	38	38

* = SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL
28100109	STONE RIPRAP, CLASS A5	SQ YD	11	11
28200200	FILTER FABRIC	SQ YD	49	49
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	49763	49763
40600370	LONGITUDINAL JOINT SEALANT	FOOT	26677	26677
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	21.8	21.8
40600900	HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), N50	TON	36.4	36.4
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	350	350
40600990	TEMPORARY RAMP	SQ YD	236	236
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	9169	9169
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	6113	6113
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	197	197
44000100	PAVEMENT REMOVAL	SQ YD	413	413
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	72770	72770
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SQ YD	324	324

* = SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	902	902
48203100	HOT-MIX ASPHALT SHOULDERS	TON	21.5	21.5
50104400	CONCRETE HEADWALL REMOVAL	EACH	10	10
50105220	PIPE CULVERT REMOVAL	FOOT	82	82
50300225	CONCRETE STRUCTURES	CU YD	24	24
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4880	4880
52100510	ANCHOR BOLTS, 3/4"	EACH	24	24
54003000	CONCRETE BOX CULVERTS	CU YD	5.4	5.4
54010502	PRECAST CONCRETE BOX CULVERTS 5' X 2'	FOOT	28	28
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	1	1
54214527	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	2	2
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	80	80
542A5485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	38	38

* = SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL
	542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	46	46
	542A5497	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 42"	FOOT	36	36
	542C0235	PIPE CULVERTS, CLASS C, TYPE 1 30"	FOOT	66	66
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	34	34
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	6.1	6.1
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2225	2225
*	63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	62.5	62.5
*	63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	300	300
*	63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5
*	63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	100	100
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	3
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	29	29
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
	63200310	GUARDRAIL REMOVAL	FOOT	2502	2502
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
	67100100	MOBILIZATION	L SUM	1	1
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2

* = SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE 80% FED 20% STATE ROADWAY 0004 RURAL
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	4971	4971
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1657	1657
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	51524	51524
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	6211	6211
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	48	48
	X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	29	29
	X0900064	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	34	34
	X1200050	BOX CULVERT REMOVAL	FOOT	102	102
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1431	1431
*	Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	1474	1474

* = SPECIALTY ITEM

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	7
	CONTRACT NO. 66A79			
	ILLINOIS FED. AID PROJECT			

REV. 3/31/22 REV. 3/2/22 REV. 2/28/22

				CONST. CODE
				80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004 RURAL
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0034105	MATERIAL TRANSFER DEVICE	TON	15282	15282
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

* = SPECIALTY ITEM

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
SUMMARY OF QUANTITIES

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

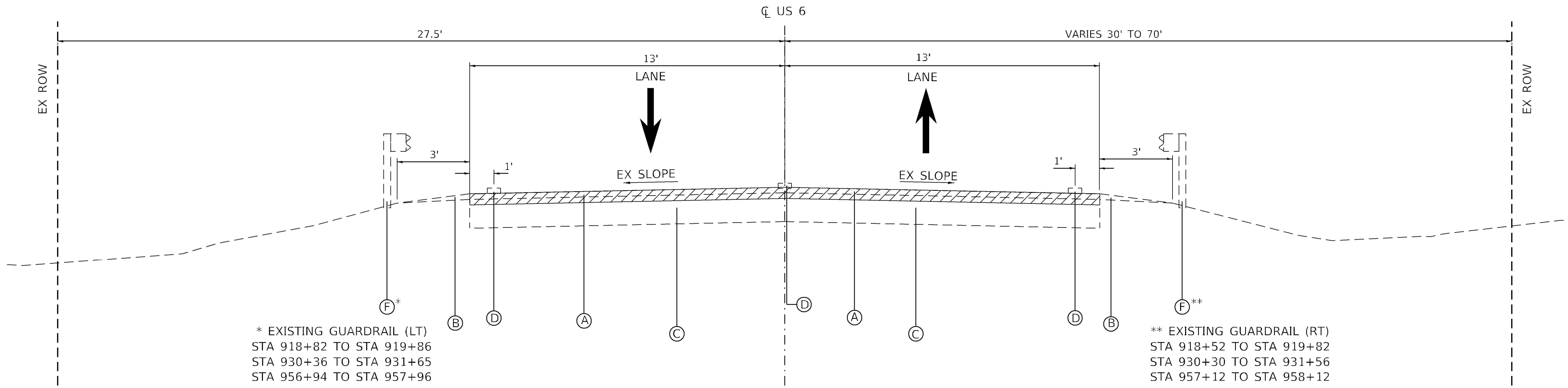
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	8

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT

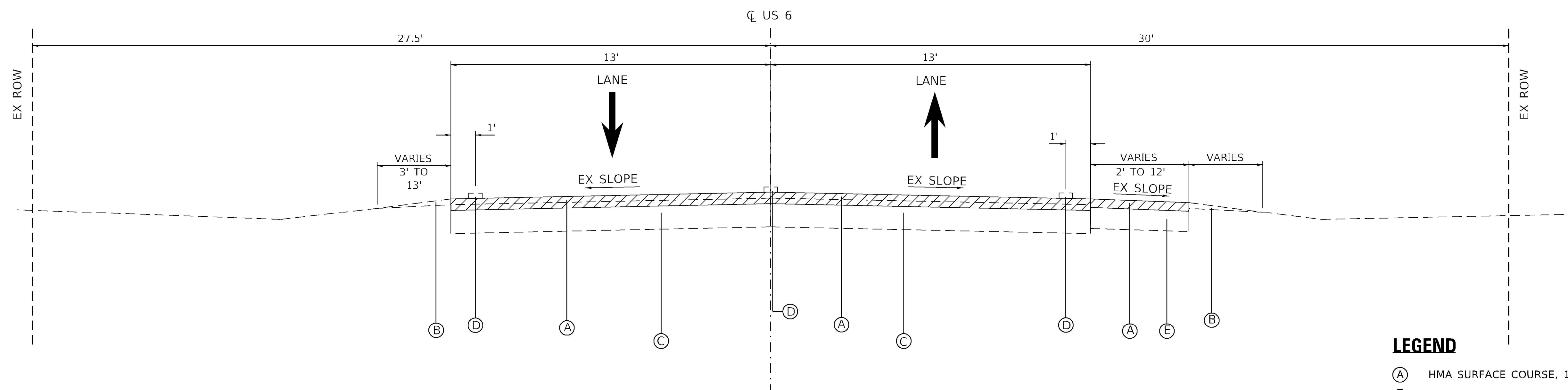
MODEL: $MODELNAME$
FILE NAME: $FILE$

REV. 3/2/22 REV. 2/28/22



TYPICAL SECTION

STA 895+18 TO STA 900+80
STA 906+75 TO STA 968+89



TYPICAL SECTION

STA 900+80 TO STA 906+75

NOTES:

1. EXISTING BITUMINOUS SHOULDER WIDTH VARIES BETWEEN STA. 900+80 AND 906+75 RT. HMA SURFACE REMOVAL SHALL BE LIMITED TO 4' WIDTH IMMEDIATELY ADJACENT TO EXISTING EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.

LEGEND

- (A) HMA SURFACE COURSE, 1 1/2" +/-
- (B) AGGREGATE SHOULDERS
- (C) PCC PAVEMENT WITH HMA OVERLAY, 15" +/-
- (D) PAVEMENT MARKING
- (E) BITUMINOUS SHOULDER
- (F) GUARDRAIL (TO BE REMOVED)
- HMA SURFACE REMOVAL, 3 3/4"
- PAVEMENT REMOVAL

MODEL: $MODELNAME$
FILE NAME: $FILE$

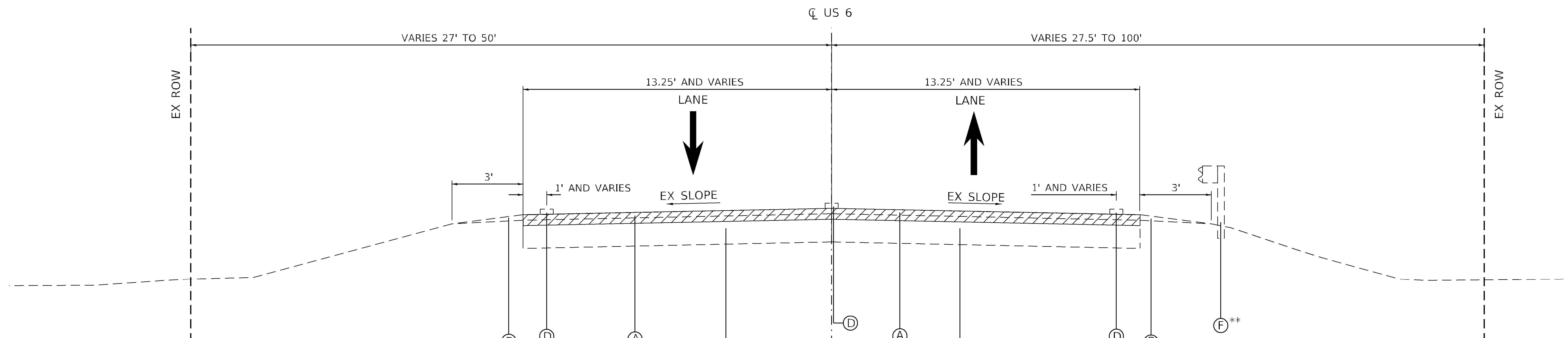
TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -
		DRAWN - PAS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
	PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
EXISTING TYPICAL SECTIONS

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

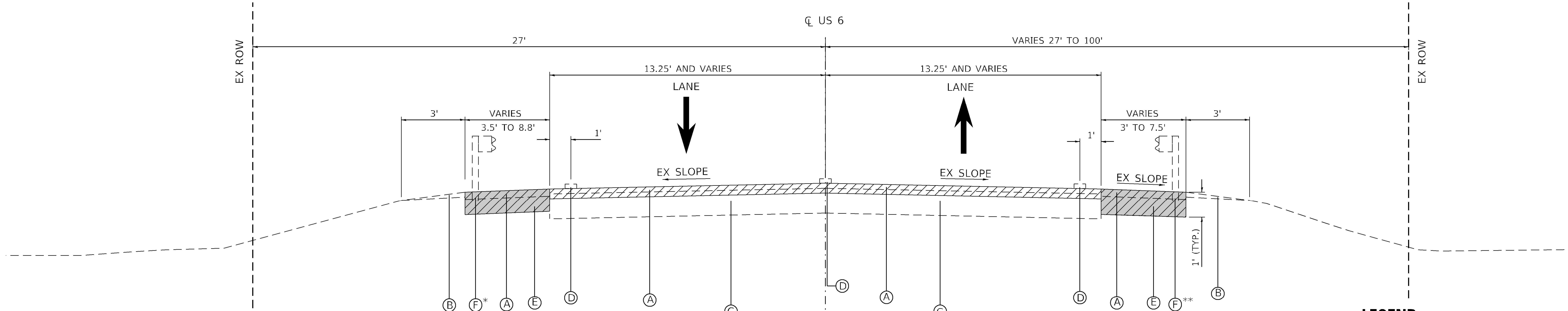
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	9
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		



** EXISTING GUARDRAIL (RT)
STA 1013+93 TO STA 1015+22
STA 1116+87 TO STA 1118+15

TYPICAL SECTION

LT STA 968+89 TO STA 969+73
LT STA 974+09 TO STA 1064+67
LT STA 1068+35 TO STA 1143+71
RT STA 974+39 TO STA 1063+82
RT STA 1067+43 TO STA 1143+71



* EXISTING GUARDRAIL (LT)
STA 969+97 TO STA 973+89
STA 1064+98 TO STA 1068+14

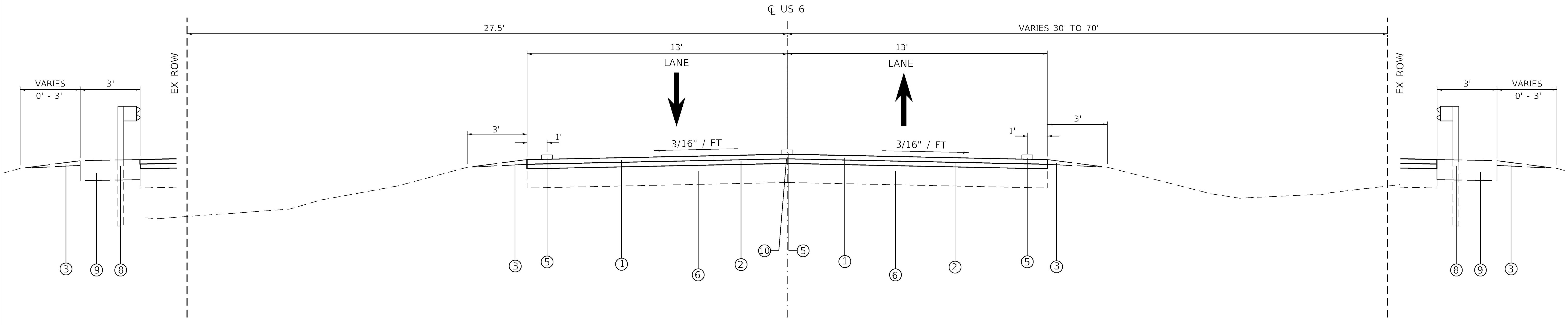
** EXISTING GUARDRAIL (RT)
STA 969+10 TO STA 974+00
STA 1064+05 TO STA 1067+21

TYPICAL SECTION

LT STA 969+73 TO STA 974+09
LT STA 1064+67 TO STA 1068+35
RT STA 968+89 TO STA 974+39
RT STA 1063+82 TO STA 1067+43

LEGEND

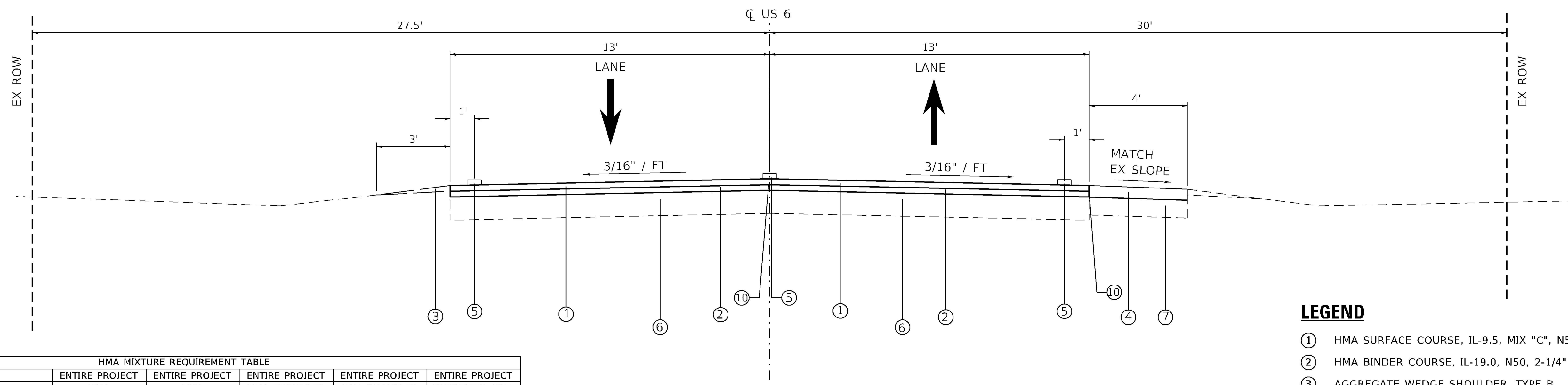
- (A) HMA SURFACE COURSE, 1 1/2" +/-
- (B) AGGREGATE SHOULDERS
- (C) PCC PAVEMENT WITH HMA OVERLAY, 15" +/-
- (D) PAVEMENT MARKING
- (E) BITUMINOUS SHOULDER
- (F) GUARDRAIL (TO BE REMOVED)
- HMA SURFACE REMOVAL, 3 3/4"
- PAVEMENT REMOVAL



GUARDRAIL (LT)
STA 918+33 TO STA 920+89
STA 930+18 TO STA 932+61
STA 956+88 TO STA 958+80

TYPICAL SECTION
STA 895+18 TO STA 900+80
STA 906+75 TO STA 968+89

GUARDRAIL (RT)
STA 917+37 TO STA 920+06
STA 929+33 TO STA 931+76
STA 957+18 TO STA 958+37



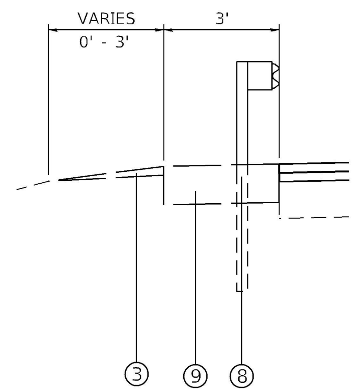
TYPICAL SECTION
STA 900+80 TO STA 906+75

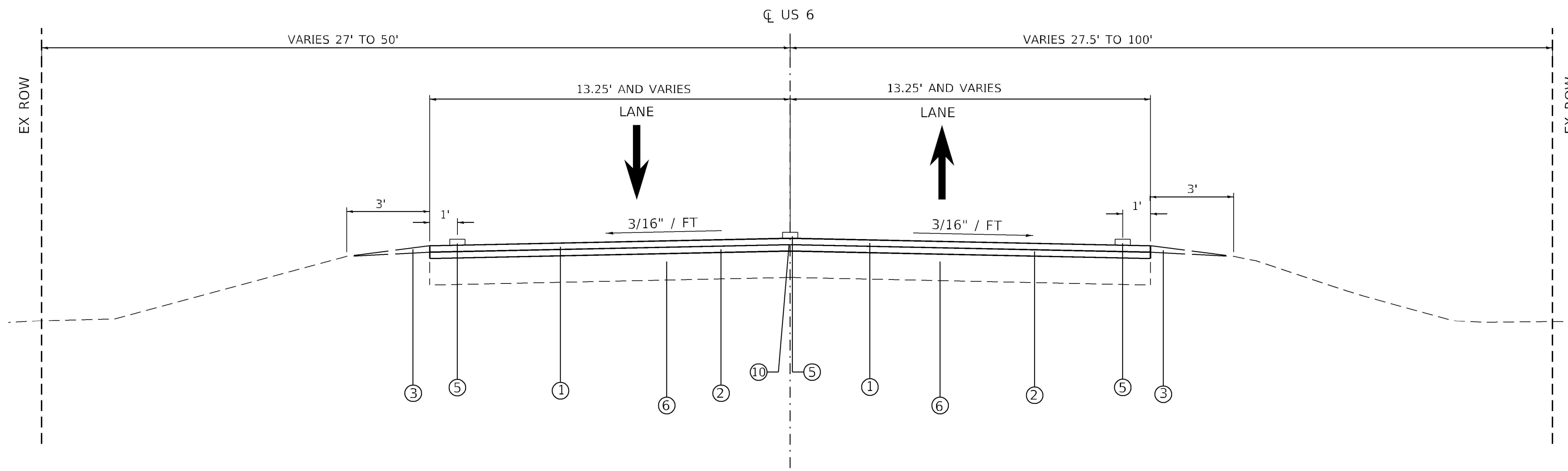
HMA MIXTURE REQUIREMENT TABLE

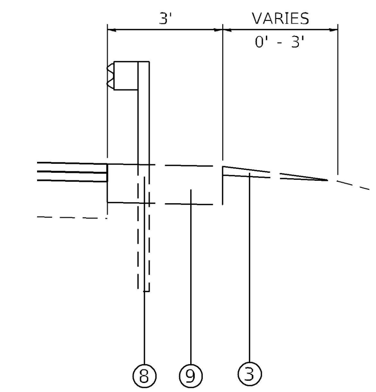
LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USES(S):	HMA BINDER COURSE	HMA SURFACE COURSE	HMA SHOULDER BOTTOM LIFT(S)	HMA SHOULDER TOP LIFT	INCIDENTAL HMA
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-19.0	IL-9.5	IL-19.0	IL-9.5	IL-9.5
FRICTION AGGREGATE:		MIXTURE C		MIXTURE C	MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCP	QCP	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	1,000 TONS	1,000 TONS	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES/ CORRELATION	CORES/ CORRELATION	SATISFACTION OF ENGINEER
MATERIAL TRANSFER DEVICE (REQUIRED):	YES	YES	NO	NO	NO

LEGEND

1. HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1-1/2"
2. HMA BINDER COURSE, IL-19.0, N50, 2-1/4"
3. AGGREGATE WEDGE SHOULDER, TYPE B
4. HMA SHOULDERS, 3 3/4"
5. PROPOSED PAVEMENT MARKING
6. EXISTING PCC PAVEMENT WITH HMA OVERLAY, 15" +/-
7. EXISTING BITUMINOUS SHOULDER
8. STEEL PLATE BEAM GUARDRAIL, TYPE A
9. HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
10. LONGITUDINAL JOINT SEALANT (UNDER SURF CSE)







GUARDRAIL (LT)

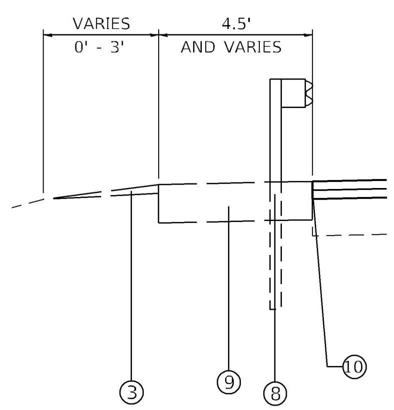
STA 1014+45 TO STA 1015+71
STA 1093+58 TO STA 1096+27
STA 1116+80 TO STA 1119+24

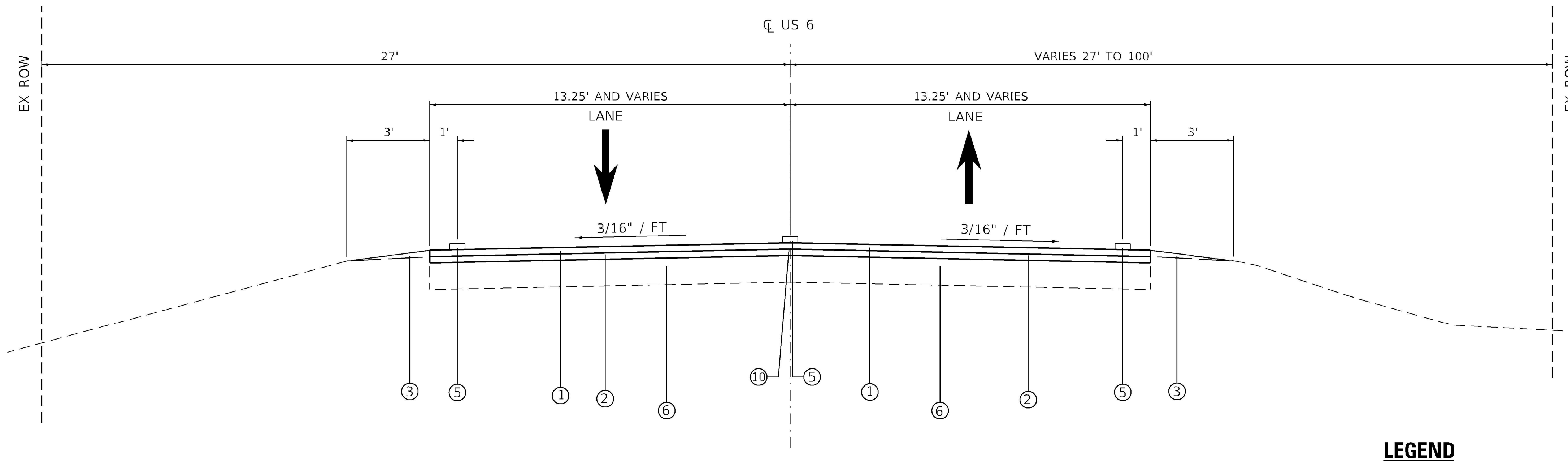
TYPICAL SECTION

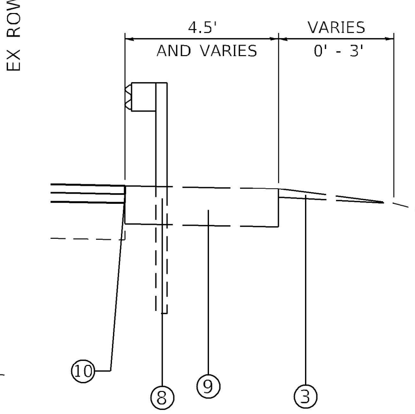
LT STA 968+89 TO STA 969+73
LT STA 974+09 TO STA 1064+67
LT STA 1068+35 TO STA 1143+71
RT STA 974+39 TO STA 1063+82
RT STA 1067+43 TO STA 1143+71

GUARDRAIL (RT)

STA 974+09 TO STA 975+54
STA 1013+30 TO STA 1015+49
STA 1092+62 TO STA 1095+31
STA 1115+80 TO STA 1118+49







GUARDRAIL (RT)

STA 969+85 TO STA 974+09
STA 1064+47 TO STA 1066+90

GUARDRAIL (LT)

STA 970+41 TO STA 973+10
STA 1065+28 TO STA 1068+21

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USES(S):	HMA BINDER COURSE	HMA SURFACE COURSE	HMA SHOULDER BOTTOM LIFT(S)	HMA SHOULDER TOP LIFT	INCIDENTAL HMA
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-19.0	IL-9.5	IL-19.0	IL-9.5	IL-9.5
FRICTION AGGREGATE:		MIXTURE C		MIXTURE C	MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCP	QCP	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	1,000 TONS	1,000 TONS	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES	CORES/ CORRELATION	CORES/ CORRELATION	SATISFACTION OF ENGINEER
MATERIAL TRANSFER DEVICE (REQUIRED):	YES	YES	NO	NO	NO

TYPICAL SECTION

LT STA 969+73 TO STA 974+09
LT STA 1064+67 TO STA 1068+35
RT STA 968+89 TO STA 974+39
RT STA 1063+82 TO STA 1067+43

LEGEND

1 HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1-1/2"
2 HMA BINDER COURSE, IL-19.0, N50, 2-1/4"
3 AGGREGATE WEDGE SHOULDER, TYPE B
4 HMA SHOULDERS, 3 3/4"
5 PROPOSED PAVEMENT MARKING
6 EXISTING PCC PAVEMENT WITH HMA OVERLAY, 15" +/-
7 EXISTING BITUMINOUS SHOULDER
8 STEEL PLATE BEAM GUARDRAIL, TYPE A
9 HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
10 LONGITUDINAL JOINT SEALANT (UNDER SURF CSE)

MODEL: $MODELNAME$
FILE NAME: $FILEL$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
PROPOSED TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	12
		CONTRACT NO. 66A79		
	ILLINOIS	FED. AID PROJECT		

MAINLINE SCHEDULE

LOCATION BEGIN STA	END STA	COMMENTS	LENGTH FOOT	WIDTH FOOT	RESURF AREA SQ FT	HMA SURF REM 3-3/4" SQ YD	PAV'T REM SQ YD	HMA SURF REM, BUTT JOINT SQ YD	TEMP RAMP SQ YD	LONG JOINT SEAL FOOT	HMA SURF CSE IL-9.5, MIX C, N50, 1-1/2" TON	HMA BINDER COURSE, IL-19.0, N50, 2-1/4" TON	MATERIAL TRANSFER DEVICE TON	BIT MAT (TACK COAT) POUND	MIXTURE CRACKS JTS & FLANGEWAYS TON	HMA BINDER COURSE, (HAND METHOD) N50 TON	HMA SHOULDERS TON	AGG WEDGE SHLD, TY B TON	HMA STAB 6 AT SPBGR SQ YD
895+18	901+08	BEG PROJECT TO S CENTRAL ST	590	26	15340	1704		173	36	618	143	215	358	1151	0.5	0.9	0.3	22	
901+08	902+94	S CENTRAL ST TO MAPLE ST	186	26	4836	537				372	45	68	113	363	0.2	0.3	6.9	7	
902+94	903+49	MAPLE ST TO CENTRAL ST	55	26	1430	159				110	13	20	33	107	0.0	0.1	2.1	2	
903+49	904+79	CENTRAL ST TO LOCUST ST	130	26	3380	376				260	32	47	79	254	0.1	0.2	4.9	4	
904+79	908+23	LOCUST ST TO OAK ST	344	26	8944	994				540	83	125	209	671	0.3	0.5	7.3	13	
908+23	911+29	OAK ST TO 3RD AVE / E 1ST ST	306	26	7956	884				306	74	111	186	597	0.3	0.4		11	
911+29	917+21	3RD AVE/E 1ST ST TO BEG CULV #1826	592	26	15392	1710				592	144	215	359	1154	0.5	0.9		22	
917+21	921+05	BEG CULV #1826 TO END CULV #1826	384	26	9984	1109				384	93	140	233	749	0.3	0.6		10	196
921+05	929+17	END CULV #1826 TO BEG CULV #1827	812	26	21112	2346				812	197	296	493	1583	0.7	1.2		31	
929+17	932+78	BEG CULV #1827 TO END CULV #1827	361	26	9386	1043				361	88	131	219	704	0.3	0.5		9	184
932+78	945+75	END CULV #1827 TO SN 006-2555	1297	26	33722	3747				1297	315	472	787	2529	1.1	1.9		49	
945+75	956+89	SN 006-2555 TO 200 E ST	1114	26	28964	3218				1114	270	405	676	2172	1.0	1.6		42	
956+89	958+95	200 E ST TO END CULV #1829	206	26	5356	595				206	50	75	125	402	0.2	0.3		6	144
958+95	969+69	END CULV #1829 TO BEG SN 006-2009	1074	26 - 26.5	27979	3109				1074	261	392	653	2098	0.9	1.6		41	
969+69	975+70	BEG SN 006-2009 TO END SN 006-2009	601	26.5	15927	1770	246			1294	149	223	372	1194	0.5	0.9		16	246
975+70	995+36	END SN 006-2009 TO CTY RD 270 E	1966	26.5	52099	5789				1966	486	729	1216	3907	1.7	2.9		74	
995+36	1012+61	CTY RD 270 E TO CTY RD 300 E	1725	26.5	45713	5079				1725	427	640	1067	3428	1.5	2.5		65	
1012+61	1013+15	CTY RD 300 E TO BEG CULV #1830	54	26.5	1431	159				54	13	20	33	107	0.0	0.1		2	
1013+15	1015+87	BEG CULV #1830 TO END CULV #1830	272	26.5	7208	801				272	67	101	168	541	0.2	0.4		7	139
1015+87	1064+30	END CULV #1830 TO BEG SN 006-2010	4843	26.5	128340	14260				4843	1198	1797	2995	9625	4.3	7.1		184	
1064+30	1068+37	BEG SN 006-2010 TO END SN 006-2010	407	26.5	10786	1198	167			943	101	151	252	809	0.4	0.6		10	167
1068+37	1092+46	END SN 006-2010 TO BEG CULV #1831	2409	26.5	63839	7093				2409	596	894	1490	4788	2.1	3.5		91	
1092+46	1096+43	BEG CULV #1831 TO END CULV #1831	397	26.5	10521	1169				397	98	147	245	789	0.4	0.6		10	201
1096+43	1114+30	END CULV #1831 TO 1500 N AVE	1787	26.5	47356	5262				1787	442	663	1105	3552	1.6	2.6		67	
1114+30	1115+64	1500 N AVE TO BEG CULV #1832	134	26.5	3551	395				134	33	50	83	266	0.1	0.2		5	
1115+64	1119+39	BEG CULV #1832 TO END CULV #1832	375	26.5	9938	1104				375	93	139	232	745	0.3	0.6		10	196
1119+39	1143+71	END CULV #1832 TO END PROJECT	2432	26.5	64448	7161		177	37	2432	602	902	1504	4834	2.1	3.6		92	
					TOTAL	72770	413	350	73	26677	6113	9169	15282	49120	21.8	36.4	21.5	902	1474

SIDEROAD SCHEDULE

STREET NAME	STATION	SIDE LT/RT	LENGTH FOOT	WIDTH FOOT	RESURF AREA SQ FT	HMA SURFACE REM, VARIABLE DEPTH* SQ YD	BIT MAT (TACK COAT) POUND	INCIDENTAL HMA SURFACING TON	TEMP RAMP SQ YD	FURNISHED EXCAVATION CU YD
S CENTRAL ST	901+08	RT	30	26	780	87	39	13	15	2
CENTRAL ST	903+49	LT	30	44	1320	147	66	22	25	3
LOCUST ST	904+79	RT	30	22	660	74	33	11	13	2
OAK ST	908+23	RT	30	18	540	60	27	9	10	1
3RD AVE/E 1ST ST	911+29	LT	30	35	1050	117	53	18	20	2
3RD AVE/E 1ST ST	911+29	RT	30	14	420	47	21	7	8	2
200 E ST	956+89	LT	30	22	660	74	33	11	13	2
200 E ST	956+89	RT	30	22	660	74	33	11	13	2
CTY RD 270 E	995+36	LT	30	16	480	54	24	8	9	2
CTY RD 300 E	1012+61	RT	30	29	870	97	44	15	17	2
1500 N AVE	1114+30	RT	30	36	1080	120	54	18	20	2
					TOTAL	951	427	143	163	22

* NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH FOR SIDESTREET IMPROVEMENTS SHALL VARY FROM 3-3/4" AT US 6 TO 1-1/2" AT SIDESTREET LIMITS (TYP.)

PAVEMENT MARKING SCHEDULE

LOCATION		COMMENTS	LENGTH	POLYUREA*			SHORT TERM	
				4" LINE		6" LINE	PAVEMENT MARKING	PVMT MARKING REMOVAL
				WHITE	YELLOW	YELLOW		
BEGIN STA	END STA		FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
895+18	902+55	WB EDGE LINE	737	737				
903+95	910+55	WB EDGE LINE	660	660				
911+70	956+60	WB EDGE LINE	4490	4490				
957+00	995+00	WB EDGE LINE	3800	3800				
995+70	1014+10	WB EDGE LINE	1840	1840				
1014+45	1143+71	WB EDGE LINE	12926	12926				
895+18	1143+61	CL SKIP DASH	24843			6211		
1024+56	1037+07	CL NO PASS EB	1251		1251			
1037+07	1047+18	CL NO PASS WB	1011		1011			
1140+80	1143+61	CL NO PASS EB	281		281			
1143+61	1143+71	CL DBL YELLOW	10		20			
895+18	900+80	EB EDGE LINE	562	562				
901+40	904+65	EB EDGE LINE	325	325				
905+00	908+15	EB EDGE LINE	315	315				
908+50	911+05	EB EDGE LINE	255	255				
911+60	956+70	EB EDGE LINE	4510	4510				
957+20	1012+45	EB EDGE LINE	5525	5525				
1012+90	1113+95	EB EDGE LINE	10105	10105				
1114+60	1143+71	EB EDGE LINE	2911	2911				
895+18	1143+71	CL SHORT TERM PMK	24853				4971	
895+18	1143+71	SHORT TERM PMK REM	24853					1657
			TOTAL	48961	2563	6211	4971	1657

* NOTE: POLYUREA PAVEMENT MARKINGS SHALL BE APPLIED IN TWO (2) SEPARATE APPLICATIONS A MINIMUM OF SEVEN (7) DAYS APART.

ENTRANCES & MAILBOX SCHEDULE

LOCATION	SIDE	TYPE	MAT'L	WIDTH	LENGTH	AREA	HMA SURFACE REM, VARIABLE DEPTH	BIT MAT (TACK COAT)	INCIDENTAL HMA SURFACING
STATION				FOOT	FOOT	SQ FT	SQ YD	POUND	TON
895+85	RT	CE	HMA	17	10	170	19	9	2
897+22	RT	CE	HMA	19	10	190	21	10	2
898+50	RT	PE	HMA	24	10	240	27	12	3
904+40	LT	CE	HMA	55	10	550	61	28	7
908+20	LT	CE	HMA	35	10	350	39	18	4
909+05	RT	CE	HMA	35	10	350	39	18	4
910+55	LT	CE	HMA	26	10	260	29	13	3
912+50	LT	CE	HMA	35	10	350	39	18	4
913+35	RT	PE	HMA	19	10	190	21	10	2
995+30	RT	PE	HMA	13	10	130	14	7	2
999+45	RT	MBTO	HMA	15	6	90	10	5	1
999+60	RT	PE	HMA	13	10	130	14	7	2
1014+35	LT	PE	HMA	16	10	160	18	8	2
1049+65	LT	MBTO	HMA	15	6	90	10	5	1
1049+80	LT	PE	HMA	15	10	150	17	8	2
1092+65	LT	MBTO	HMA	15	6	90	10	5	1
1092+80	LT	PE	HMA	14	10	140	16	7	2
1119+05	RT	PE	HMA	13	10	130	14	7	2
1119+25	LT	MBTO	HMA	20	6	120	13	6	1
1122+00	RT	PE	HMA	24	10	240	27	12	3
1137+75	RT	PE	HMA	8	10	80	9	4	1
1137+85	LT	MBTO	HMA	20	6	120	13	6	1
						TOTAL	480	216	54

DRAINAGE SCHEDULE																					
LOCATION	ELEMENT	COMMENTS	STONE RIPRAP CL A4	STONE RIPRAP CL A5	FILTER FABRIC	TRENCH BACKFILL	PIPE CULVERT REM	PCBC 5'X2'	PRC FLAR END SEC 24"	PRC FL END S EQ RS 30"	PRC FL END S EQ RS 42"	PIPE CUL CL A TY1 24"	PIPE CUL CL A TY1 EQ RD SZ 30"	PIPE CUL CL A TY1 EQ RD SZ 36"	PIPE CUL CL A TY1 EQ RD SZ 42"	PIPE CUL CL C TY1 30"	CONTR LOW -STRENG MATL	BOX CULV REMOVAL	REM & DISP UNS MATL	POROUS GRAN EMBANK	CONCRETE HEADWALL REMOVAL
STATION			SQ YD	SQ YD	SQ YD	CU YD	FOOT	FOOT	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD	FOOT	CU YD	CU YD	EACH
919+20	BOX CULVERT	CULVERT #1826				24.4								46				36	31	31	2
930+97	BOX CULVERT	CULVERT #1827				14.3		28										32	23	105	2
957+23	BOX CULVERT	CULVERT #1829		10.6	10.6	8.9				1			38					34	22	22	2
971+47	DBL BOX CULVERT	S.N. 006-2009	20.0		20.0																
1014+60	BOX CULVERT	CULVERT #1830				5.7										66	6.1				2
1066+09	DBL BOX CULVERT	S.N. 006-2010 (PARTITION WALL SCOUR)	18.0		18.0																
1094+48	PIPE CULVERT	CULVERT #1831				2.1	41		4			80							36	36	
1117+55	PIPE CULVERT	CULVERT #1832				15.2	41				2				36				27	27	2
		TOTAL	38.0	10.6	48.6	70.6	82	28	4	1	2	80	38	46	36	66	6.1	102	139	221	10

DITCH CLEANING SCHEDULE					
LOCATION		LENGTH	SIDE	FLOW DIRECTION	GRADING & SHAPING DITCHES
BEGIN STA	END STA	FOOT	(N/S)	(E/W)	FOOT
936+00	938+00	200	SOUTH	WEST	200
938+50	941+50	300	SOUTH	EAST	300
958+50	962+00	350	NORTH	WEST	350
1008+00	1012+50	450	SOUTH	EAST	450
1013+00	1014+60	160	SOUTH	EAST	160
1093+00	1095+00	200	SOUTH	EAST	200
				TOTAL	1660

EROSION CONTROL AND LANDSCAPING SCHEDULE										
LOCATION	ELEMENT	COMMENTS	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SEEDING, CLASS 2A	EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STATION			POUND	POUND	POUND	ACRE	SQ YD	FOOT	FOOT
919+20	BOX CULVERT	CULVERT #1826	9	9	9	0.09	458	35	285
930+97	BOX CULVERT	CULVERT #1827	5	5	5	0.05	244	24	499
957+23	BOX CULVERT	CULVERT #1829	4	4	4	0.04	191	12	317
971+47	DBL BOX CULVERT	S.N. 006-2009	16	16	16	0.17	816		927
1014+60	BOX CULVERT	CULVERT #1830	7	7	7	0.07	338	8	368
1066+09	DBL BOX CULVERT	S.N. 006-2010	5	5	5	0.05	237	33	554
1094+48	PIPE CULVERT	CULVERT #1831	8	8	8	0.08	375	18	575
1117+55	PIPE CULVERT	CULVERT #1832	7	7	7	0.07	361	16	547
		TOTAL	61	61	61	0.62	3020	146	4072

GUARDRAIL SCHEDULE

LOCATION BEGIN STA	END STA	SIDE LT/RT	LENGTH OF NEED FOOT	GUARDRAIL REMOVAL FOOT	LONG-SPAN GUARDRAIL OVER CULVERT 12.5 FT SPAN FOOT	LONG-SPAN GUARDRAIL OVER CULVERT 18.75 FT SPAN FOOT	LONG-SPAN GUARDRAIL OVER CULVERT 25 FT SPAN FOOT	STRONG POST GUARDRAIL ATTACHED TO CULVERT FOOT	TBT TYPE 2 EACH	TBT TYPE 1 (SPL) TANGENT EACH	STEEL PLATE BEAM GUARDRAIL TYPE 1 6 FT POSTS FOOT	GUARDRAIL REFLECTORS TYPE A EACH	LINEAR DELINEATOR PANELS, 4 INCH EACH
918+82	919+87	LT		105									
918+33	920+89	LT	227		37.5					2	125	3	2
918+52	919+82	RT		130									
917+37	920+06	RT	232		37.5					2	137.5	3	2
930+35	931+65	LT		130									
930+18	932+61	LT	203		37.5					2	112.5	3	2
930+29	931+56	RT		127									
929+33	931+76	RT	202		37.5					2	112.5	3	2
956+93	957+97	LT		104									
956+88	958+80	LT	136						1	1	137.5	2	1
957+15	958+13	RT		130									
957+18	958+37	RT	147		37.5				1	1	75	2	1
969+97	973+89	LT		392									
970+41	973+10	LT	235				50			2	125	3	2
969+09	974+01	RT		492									
969+85	975+54	RT	541				50			2	425	6	2
1014+45	1015+71	LT	111					12.5	1	1	62.5	2	1
1013+92	1015+22	RT		130									
1013+30	1015+49	RT	151		37.5					2	87.5	3	2
1064+98	1068+14	LT		316									
1065+28	1068+21	LT	258					25		2	175	3	2
1064+05	1067+21	RT		316									
1064+47	1066+90	RT	208					25		2	125	3	2
1093+58	1096+27	LT	237			43.75				2	131.25	3	2
1092+62	1095+31	RT	150			43.75				2	131.25	3	2
1116+80	1119+24	LT	226		37.5					2	125	3	2
1116+86	1118+16	RT		130									
1115+80	1118+49	RT	241		37.5					2	137.5	3	2
		TOTAL	3505	2502	300	87.5	100	62.5	3	29	2225	48	29

EARTHWORK SCHEDULE

STATION	A EARTH EXCAVATION (CU YD) STAGE 1	A STAGE 2	B EX. ADJUSTED FOR SHRINKAGE (CU YD) STAGE 1	B STAGE 2	C EMBANKMENT (CU YD) STAGE 1	C STAGE 2	D TOPSOIL EXCAVATION (CU YD) STAGE 1	D STAGE 2	E EARTHWORK BALANCE WASTE (+) / SHORTAGE (-) (CU YD) STAGE 1	E STAGE 2
CULVERT 1826										
917+21										
918+70	0.2	0.3	0.1	0.2	2.2	39.4	1.4	14.3	-0.7	-24.8
918+95	0.3	0.1	0.2	0.1	1.9	13.9	1.2	4.9	-0.5	-9.0
919+20	17.5	17.8	13.1	13.4	5.8	12.3	1.3	3.9	8.6	5.0
919+45	17.5	17.9	13.2	13.4	5.8	12.5	1.4	4.0	8.8	5.0
919+70	0.5	0.3	0.4	0.2	2.0	13.4	1.4	4.8	-0.2	-8.4
921+05	1.3	0.3	0.9	0.2	6.0	12.5	4.3	4.8	-0.8	-7.4
SUBTOTAL	37.2	36.7	27.9	27.5	23.9	103.9	11.0	36.8	15.1	-39.6
CULVERT 1827										
929+17										
930+47	0.3	1.0	0.3	0.7	2.2	4.6	1.6	3.6	-0.3	-0.2
930+72	0.3	0.3	0.2	0.2	2.7	3.4	1.8	1.9	-0.7	-1.2
930+97	6.8	6.3	5.1	4.7	3.8	6.4	1.5	3.1	2.8	1.4
931+22	6.9	6.3	5.2	4.7	2.9	5.6	1.1	3.1	3.4	2.2
931+47	0.6	0.3	0.5	0.2	0.8	2.6	0.6	2.0	0.3	-0.4
932+78	1.7	0.3	1.3	0.2	1.2	1.8	1.0	1.6	1.0	0.0
SUBTOTAL	16.6	14.3	12.5	10.7	13.6	24.3	7.6	15.4	6.4	1.8
CULVERT 1829										
956+88										
956+98	0.2	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.2	0.0
957+23	15.0	10.4	11.3	7.8	1.8	1.1	0.3	3.2	9.8	9.9
957+48	14.8	10.6	11.1	7.9	1.9	2.4	0.1	4.0	9.4	9.5
957+73	0.6	0.4	0.5	0.3	0.3	2.2	0.2	1.4	0.4	-0.5
958+96	1.6	0.7	1.2	0.6	0.5	3.0	0.2	1.9	1.0	-0.5
SUBTOTAL	32.2	22.1	24.2	16.6	4.4	8.6	1.0	10.5	20.7	18.4
SN 006-2009										
969+69										
970+97	0.0	0.0	0.0	0.0	9.5	10.7	3.6	3.1	-5.9	-7.6
971+22	0.0	0.0	0.0	0.0	7.6	4.2	3.0	1.3	-4.6	-3.0
971+47	0.0	0.0	0.0	0.0	6.5	4.2	2.2	1.0	-4.3	-3.1
971+72	0.0	0.0	0.0	0.0	4.6	12.4	0.9	3.3	-3.7	-9.1
971+97	0.0	0.0	0.0	0.0	4.6	19.4	1.0	5.9	-3.6	-13.6
975+70	0.0	0.0	0.0	0.0	10.9	135.8	2.6	44.1	-8.3	-91.7
SUBTOTAL	0.0	0.0	0.0	0.0	43.8	186.7	13.4	58.6	-30.5	-128.1
CULVERT 1830										
1013+15										
1014+10	0.0	0.7	0.0	0.5	0.0	9.6	0.0	6.0	0.0	-3.0
1014+35	0.0	0.3	0.0	0.2	0.0	6.5	0.0	3.4	0.0	-2.9
1014+60	1.5	0.8	1.1	0.6	0.0	4.0	0.0	1.8	1.1	-1.6
1014+85	1.7	0.8	1.3	0.6	2.9	2.9	1.7	1.5	0.0	-0.8
1015+10	0.4	0.2	0.3	0.2	4.4	4.9	2.9	2.8	-1.3	-1.9
1015+83	0.7	0.3	0.5	0.2	4.4	4.4	3.4	2.8	-0.6	-1.4
SUBTOTAL	4.2	3.1	3.2	2.3	11.8	32.2	7.9	18.3	-0.7	-11.6

EARTHWORK SCHEDULE

STATION	A EARTH EXCAVATION (CU YD) STAGE 1	A STAGE 2	B EX. ADJUSTED FOR SHRINKAGE (CU YD) STAGE 1	B STAGE 2	C EMBANKMENT (CU YD) STAGE 1	C STAGE 2	D TOPSOIL EXCAVATION (CU YD) STAGE 1	D STAGE 2	E EARTHWORK BALANCE WASTE (+) / SHORTAGE (-) (CU YD) STAGE 1	E STAGE 2
SN 006-2010										
1064+30										
1065+59	0.0	0.0	0.0	0.0	3.0	9.5	0.8	2.1	-2.2	-7.4
1065+84	0.0	0.0	0.0	0.0	3.5	5.2	1.0	1.3	-2.5	-3.9
1066+09	0.1	0.1	0.1	0.1	2.1	3.4	0.6	0.9	-1.5	-2.4
1066+34	0.1	0.1	0.1	0.1	3.2	1.5	1.0	0.3	-2.2	-1.1
1066+59	0.0	0.0	0.0	0.0	8.4	3.1	2.7	0.7	-5.6	-2.4
1068+37	0.0	0.0	0.0	0.0	38.0	3.2	12.6	0.9	-25.5	-2.3
SUBTOTAL	0.2	0.3	0.1	0.2	58.2	25.8	18.6	6.2	-39.5	-19.4
CULVERT 1831										
1092+46										
1093+98	0.4	2.0	0.3	1.5	10.0	2.3	4.2	2.0	-5.5	1.2
1094+23	0.4	0.6	0.3	0.5	7.6	0.6	3.5	0.5	-3.8	0.4
1094+48	1.9	1.3	1.4	1.0	4.3	0.6	2.0	0.8	-0.9	1.1
1094+73	1.9	1.2	1.5	0.9	3.3	0.7	1.7	0.9	-0.1	1.1
1094+98	0.4	0.5	0.3	0.3	4.4	0.6	2.8	0.7	-1.3	0.4
1096+43	1.1	0.5	0.8	0.3	13.1	0.8	8.3	0.9	-4.0	0.4
SUBTOTAL	6.1	6.0	4.6	4.5	42.7	5.6	22.4	5.8	-15.7	4.7
CULVERT 1832										
1115+64										
1117+05	0.5	0.5	0.4	0.4	2.3	21.8	1.7	9.1	-0.2	-12.4
1117+30	0.5	0.2	0.3	0.1	2.9	8.2	2.0	3.3	-0.5	-4.8
1117+55	15.8	12.7	11.9	9.5	3.5	6.4	2.7	4.0	11.1	7.2
1117+80	15.8	12.8	11.8	9.6	3.0	6.0	2.4	4.0	11.2	7.6
1118+05	0.4	0.4	0.3	0.3	2.2	6.1	1.6	2.9	-0.3	-2.9
1119+39	1.0	0.4	0.7	0.3	4.7	5.3	3.5	3.0	-0.5	-1.9
SUBTOTAL	33.9	27.1	25.5	20.3	18.6	53.8	13.9	26.3	20.8	-7.2
TOTALS	130.6	109.6	97.9	82.2	217.1	440.9	95.9	177.9	-23.2	-180.9
	240.1		180.1		658.0		273.8		-204.1	

COLUMN A: CUT QUANTITIES FROM CROSS SECTIONS

COLUMN B: COLUMN A x (1-SHRINKAGE FACTOR OF 25%)

COLUMN C: FILL QUANTITIES FROM CROSS SECTIONS

COLUMN D: TOPSOIL EXCAVATION FROM CROSS SECTIONS (TO BE PAID AS EARTH EXCAVATION)

COLUMN E: COLUMN B + COLUMN D - COLUMN C

LOCATION: 1.0 MI. EAST OF HENRY COUNTY LINE TO US 34 (S) IN SHEFFIELD

PERMANENT SURVEY MARKERS						
MONUMENT NUMBER	DESCRIPTION	APPROXIMATE LOCATION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT TO BE RECORDED	RESPONSIBILITY
8810000	STA 881+00.00	WEST OF KING CREEK BRIDGE	MAG NAIL	MAG NAIL	NO	2
8876100	STA 887+61.00	CENTER OF KING CREEK BRIDGE	MAG NAIL	MAG NAIL	NO	2
8997200	STA 899+72.00	EAST OF KING CREEK BRIDGE	MAG NAIL	MAG NAIL	NO	2

ONLY THE ORIGINAL SCOPE OF THIS JOB HAS BEEN SEARCHED FOR MONUMENTS. R.E. MUST INFORM PLATS AND PLANS TO SEARCH FOR ADDITIONAL MONUMENTS PRIOR TO MILLING IF ADDENDUMS HAVE BEEN ADDED TO THIS JOB.

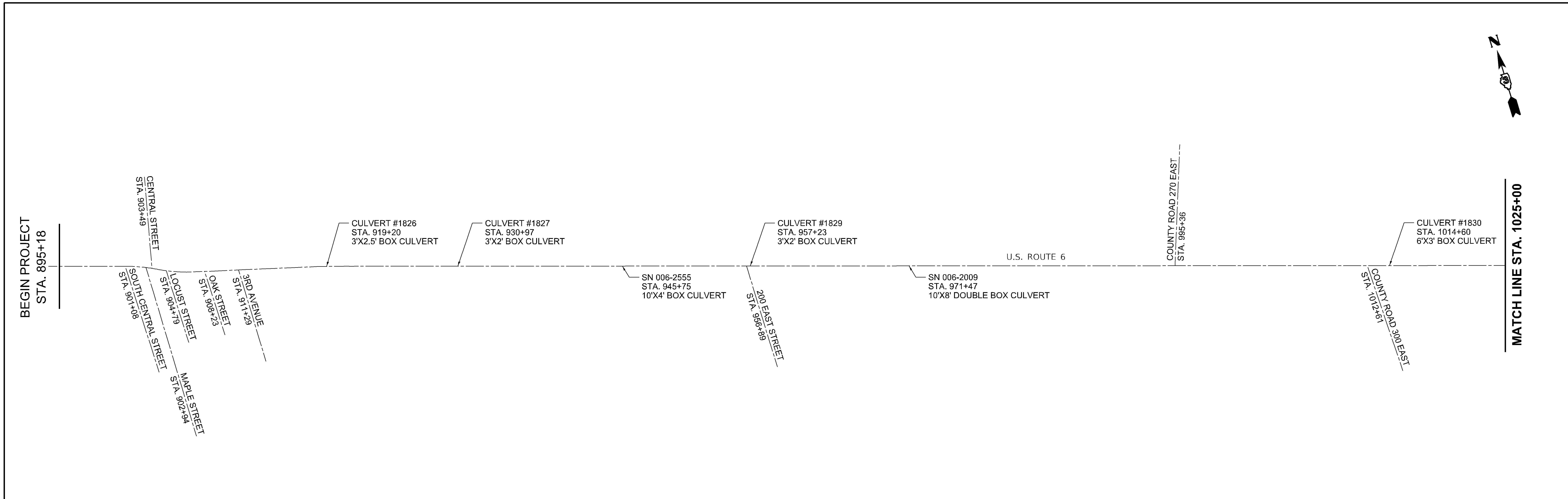
UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF AN UNLISTED MONUMENT IS FOUND, R.E. IS REQUIRED TO PROTECT THE MONUMENT FROM DAMAGE UNTIL A PLATS AND PLANS LAND SURVEYOR CAN DOCUMENT THE MONUMENT. PLATS AND PLANS WILL RESET SUCH MONUMENTS IN KIND FOLLOWING CONSTRUCTION.

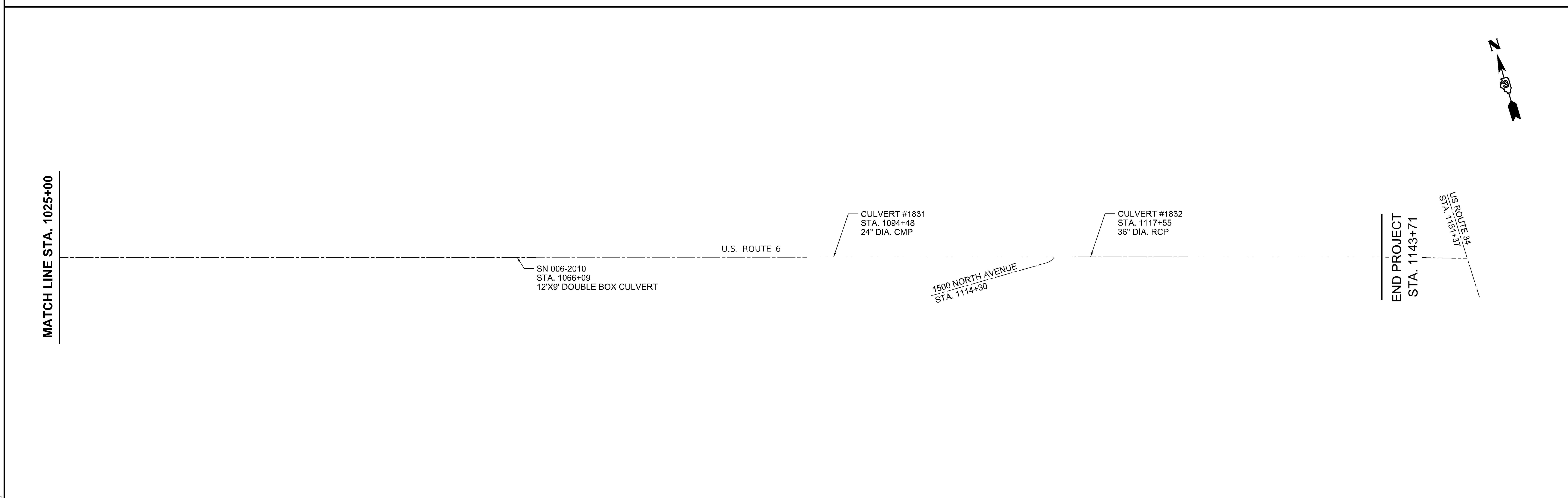
UPON PAVING COMPLETION, R.E. WILL DIRECT PLATS AND PLANS TO RESET THE LISTED MONUMENTS.

NOTE: FOR BIDDING PURPOSES NO CONTRACTED LAND SURVEYING SERVICES WILL BE REQUIRED.

NO MONUMENT RECORDS WILL BE REQUIRED.

RESPONSIBILITY:
1) RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)
2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT





MODEL: $MODELNAME$
FILE NAME: $FILEL$

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100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
ALIGNMENT LINE DIAGRAM

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	19
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

SUGGESTED CONSTRUCTION STAGING FOR CULVERTS

STAGE 1 CONSTRUCTION

INSTALL TRAFFIC CONTROL SIGNAGE, DRUMS AND BARRICADES ACCORDING TO IDOT HIGHWAY STANDARDS 701201, 701206 AND 701501 AND THE SPECIAL PROVISIONS.

REMOVE NORTH HALF OF THE EXISTING CULVERT, PAVEMENT AND ALL END TREATMENTS. CONSTRUCT NORTH HALF OF THE PROPOSED DRAINAGE IMPROVEMENTS AS SHOWN ON THE PLAN AND PROFILE SHEETS.

CONSTRUCT WESTBOUND PATCH ALONG FAS 1247 (US 6) AT THE PROPOSED CULVERT LOCATION. CONSTRUCT ASPHALT SHOULDER AND ERECT STEEL PLATE BEAM GUARDRAIL AS SHOWN ON THE PROPOSED PLAN AND PROFILE SHEETS.

STAGE 2 CONSTRUCTION

INSTALL TRAFFIC CONTROL SIGNING, DRUMS AND BARRICADES ACCORDING TO IDOT HIGHWAY STANDARDS 701201, 701206 AND 701501 AND THE SPECIAL PROVISIONS.

REMOVE SOUTH HALF OF THE EXISTING CULVERT, PAVEMENT AND ALL END TREATMENTS. CONSTRUCT SOUTH HALF OF THE PROPOSED DRAINAGE IMPROVEMENTS AS SHOWN ON THE PLAN AND PROFILE SHEETS.

CONSTRUCT EASTBOUND PATCH ALONG FAS 1247 (US 6) AT THE PROPOSED CULVERT LOCATION. CONSTRUCT ASPHALT SHOULDER AND ERECT STEEL PLATE BEAM GUARDRAIL AS SHOWN ON THE PROPOSED PLAN AND PROFILE SHEETS.

POST STAGE 2 CONSTRUCTION

REMOVE HOT-MIX ASPHALT SURFACE COURSE AS SHOWN ON THE PLANS AND CONSTRUCT HOT-MIX ASPHALT SURFACE AND BINDER COURSES TO EXTENTS OF NEW GUARDRAIL.

NOTES

CONTRACTOR SHALL FULLY COMPLETE IMPROVEMENTS AT ONE CULVERT LOCATION AND OPEN ROAD TO EXISTING TRAFFIC PATTERNS PRIOR TO COMMENCING WORK AT A NEW LOCATION.

DETOURS, DRIVEWAY CLOSURES AND ROAD CLOSURES ARE NOT PERMITTED DURING THE COURSE OF CONSTRUCTION OPERATIONS.

TRAFFIC CONTROL AND PROTECTION

TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.

TWO WAY TRAFFIC SHALL BE ACCOMMODATED AT ALL TIMES OUTSIDE OF THE WORK ZONE. TRAFFIC CONTROL AT AREAS UNDER CONSTRUCTION WHERE LANE CLOSURES ARE IN EFFECT SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

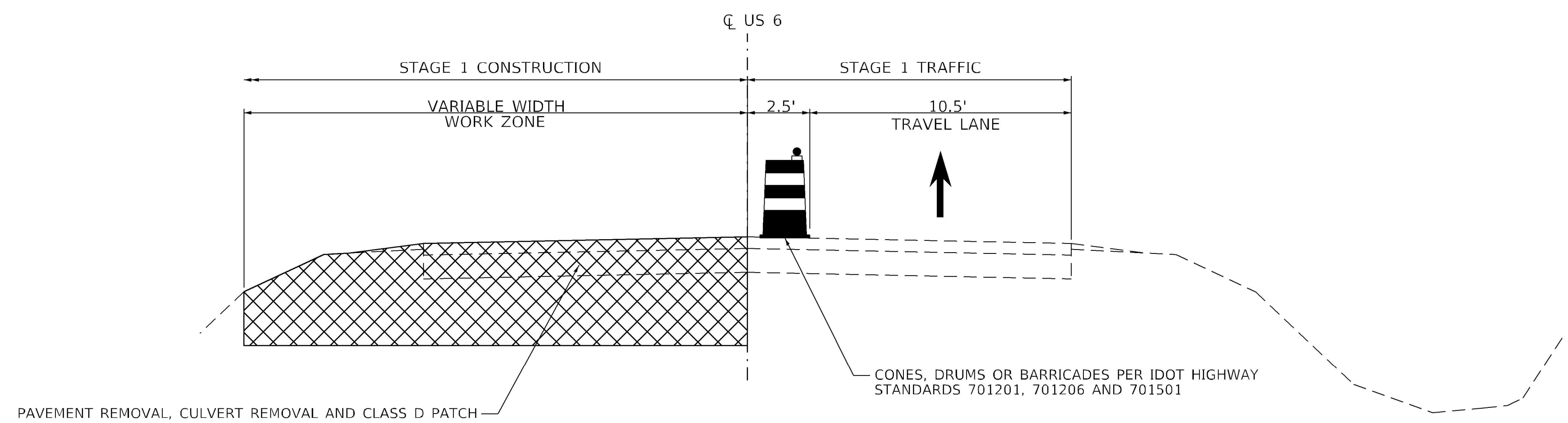
EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE CONTRACTOR AFTER THE PROPOSED TRAFFIC CONTROL REQUIREMENTS ARE MET, OR AUTHORIZED BY THE ENGINEER. SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.

THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO ENSURE THAT NO DROP-OFF OF GREATER THAN 12", WITHIN 3' OF THE TRAVEL LANE, IS PRESENT FOR 48 HOURS OR MORE.

NO DROP-OFF GREATER THAN 24" WITHIN 12' OF THE TRAVEL LANE WILL BE ALLOWED UNLESS A FLAGGER CONTROLLED LANE CLOSURE IS PROVIDED. SEGMENTS WHERE THESE CONDITIONS OCCUR DURING NON-WORKING HOURS MUST BE PROTECTED WITH TEMPORARY CONCRETE BARRIER.

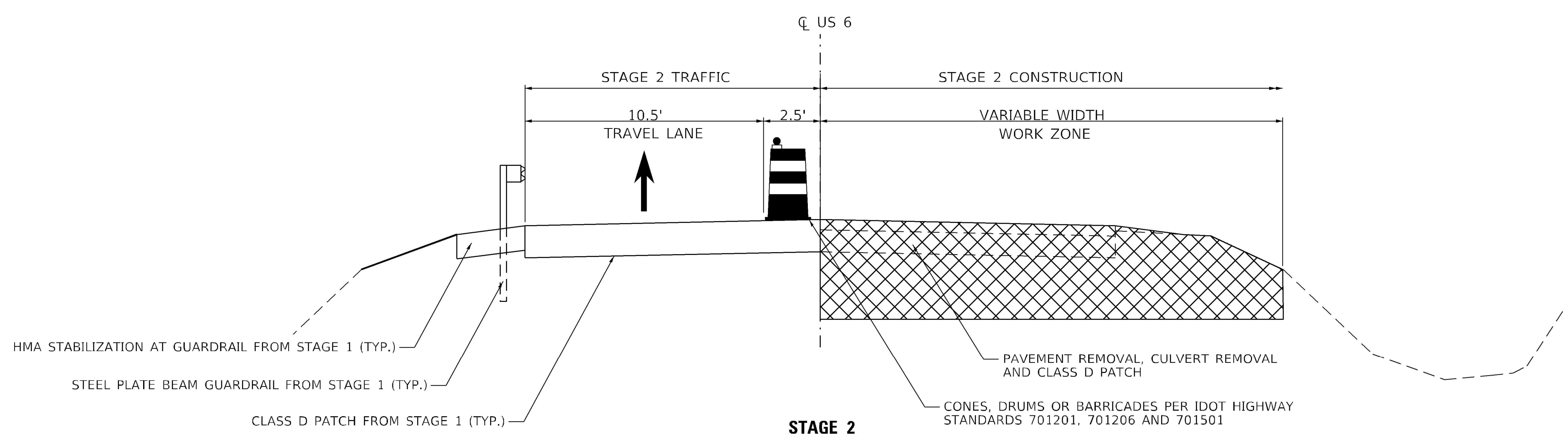
VERTICAL PANELS, TYPE II BARRICADES OR DRUMS WITH STEADY-BURNING LIGHTS SHALL BE REQUIRED TO DELINEATE THE TRAVEL WAY. THE MAXIMUM SPACING SHALL BE 100 FEET, CENTER TO CENTER ALONG TANGENTS (50 FEET ALONG TAPERS); AND 25 FEET, CENTER TO CENTER ALONG RADII TO SIDE ROADS AND ENTRANCES.

THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC FOR THIS PROJECT: 701001, 701006, 701011, 701201, 701206, 701301, 701306, 701311, 701501 & 701901.



STAGE 1

NOTE: WIDTH RESTRICTION SIGNAGE TO BE INSTALLED AT WORK ZONES PER IDOT DISTRICT 3 DETAIL



STAGE 2

NOTE: WIDTH RESTRICTION SIGNAGE TO BE INSTALLED AT WORK ZONES PER IDOT DISTRICT 3 DETAIL

MODEL: $MODELNAME$
FILE NAME: $FILEL$

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Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

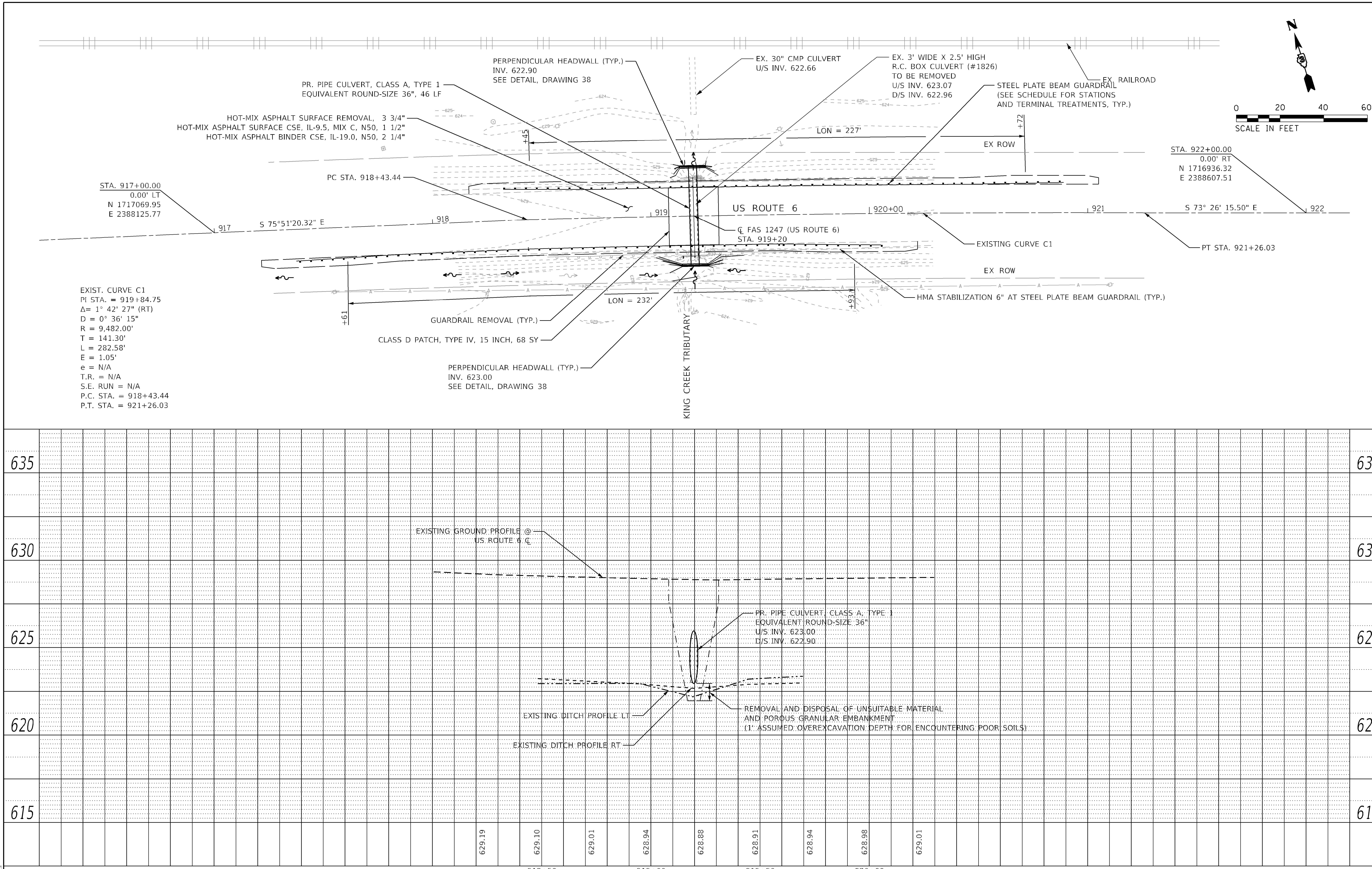
FAS ROUTE 1247 (US ROUTE 6)
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	21

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT



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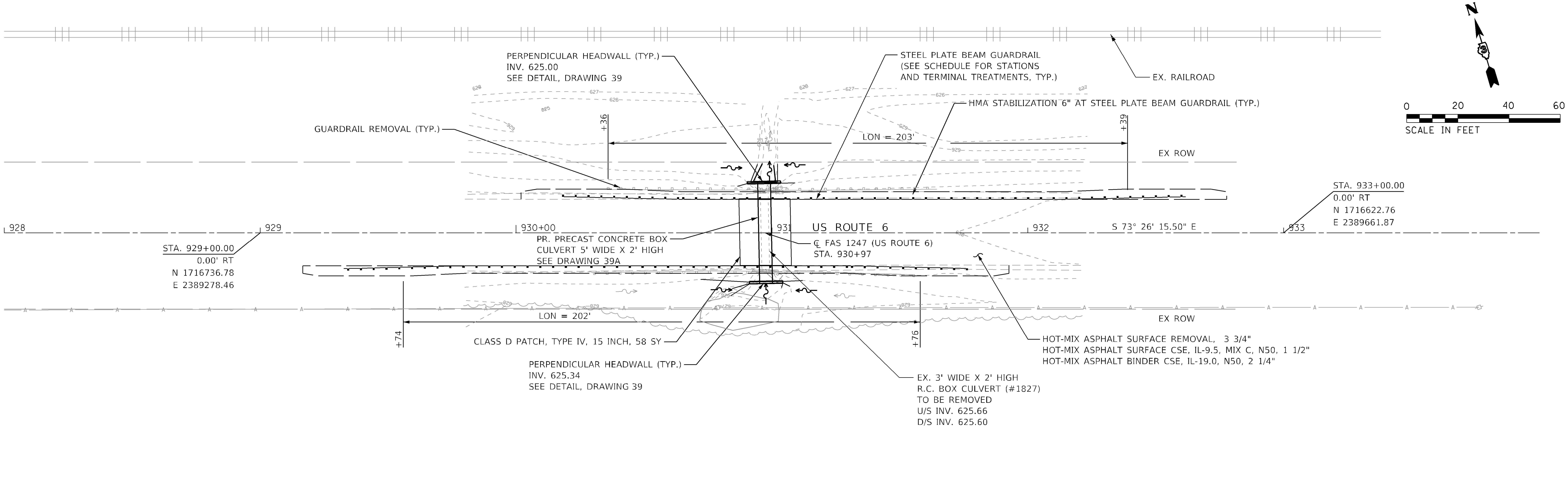
FILE NAME: $FILES$

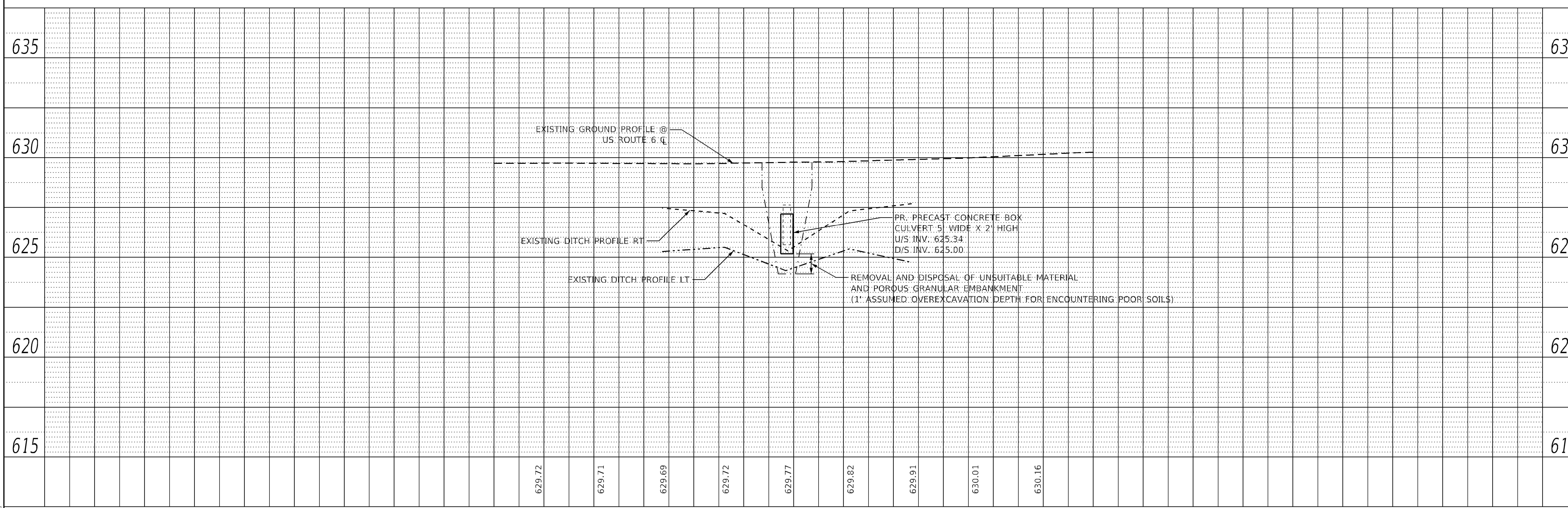
TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PAS	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
	PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	22
		CONTRACT NO. 66A79		
		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 NOTATION CHECKED — BY — DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

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Chicago, Illinois 60606

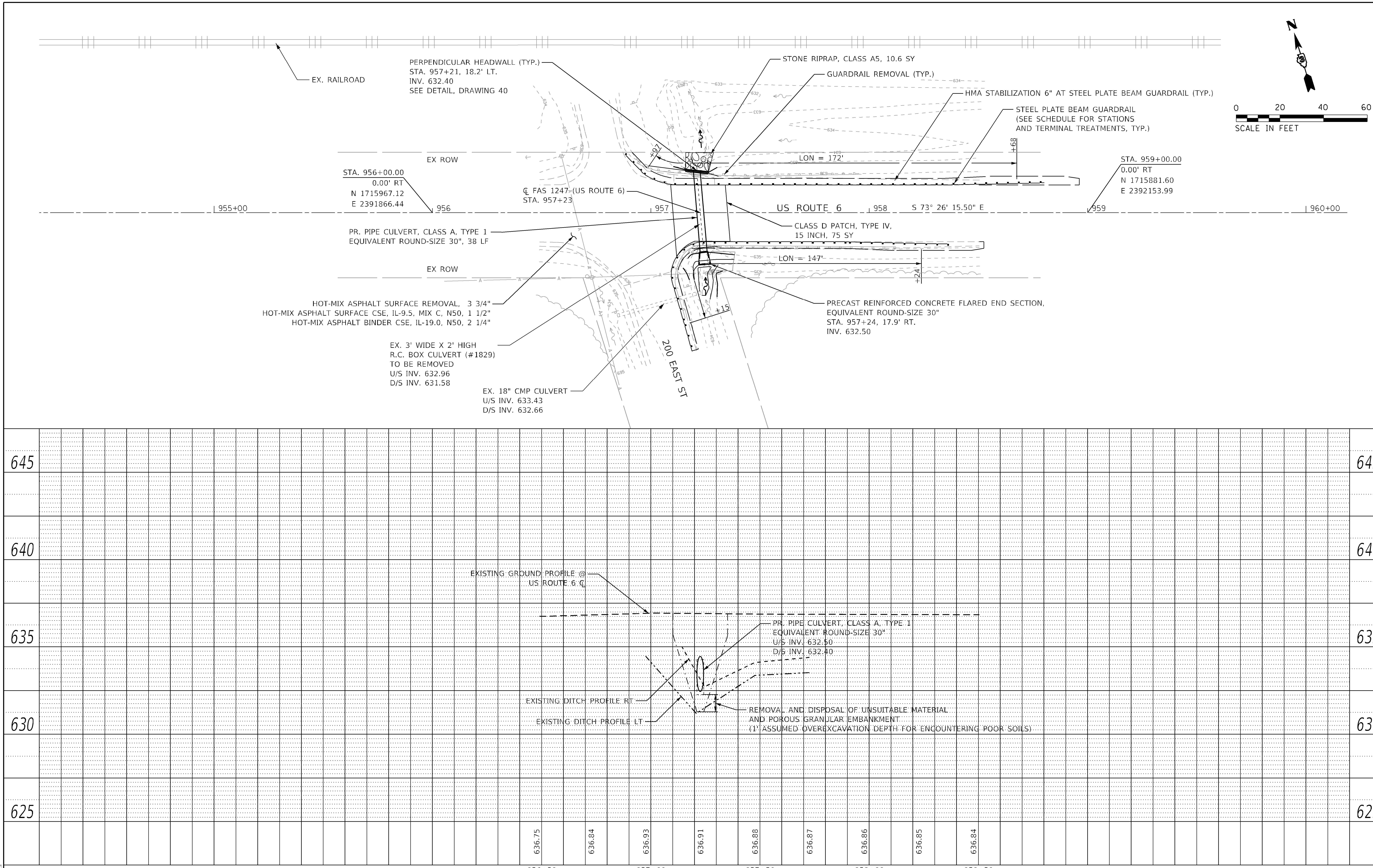
USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 3/8/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

SCALE: 1"=20' | SHEET 2 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	23
		CONTRACT NO. 66A79		
	ILLINOIS	FED. AID PROJECT		



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

MODEL: $MODELNAME$
FILE NAME: $FILE$

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Chicago, Illinois 60606

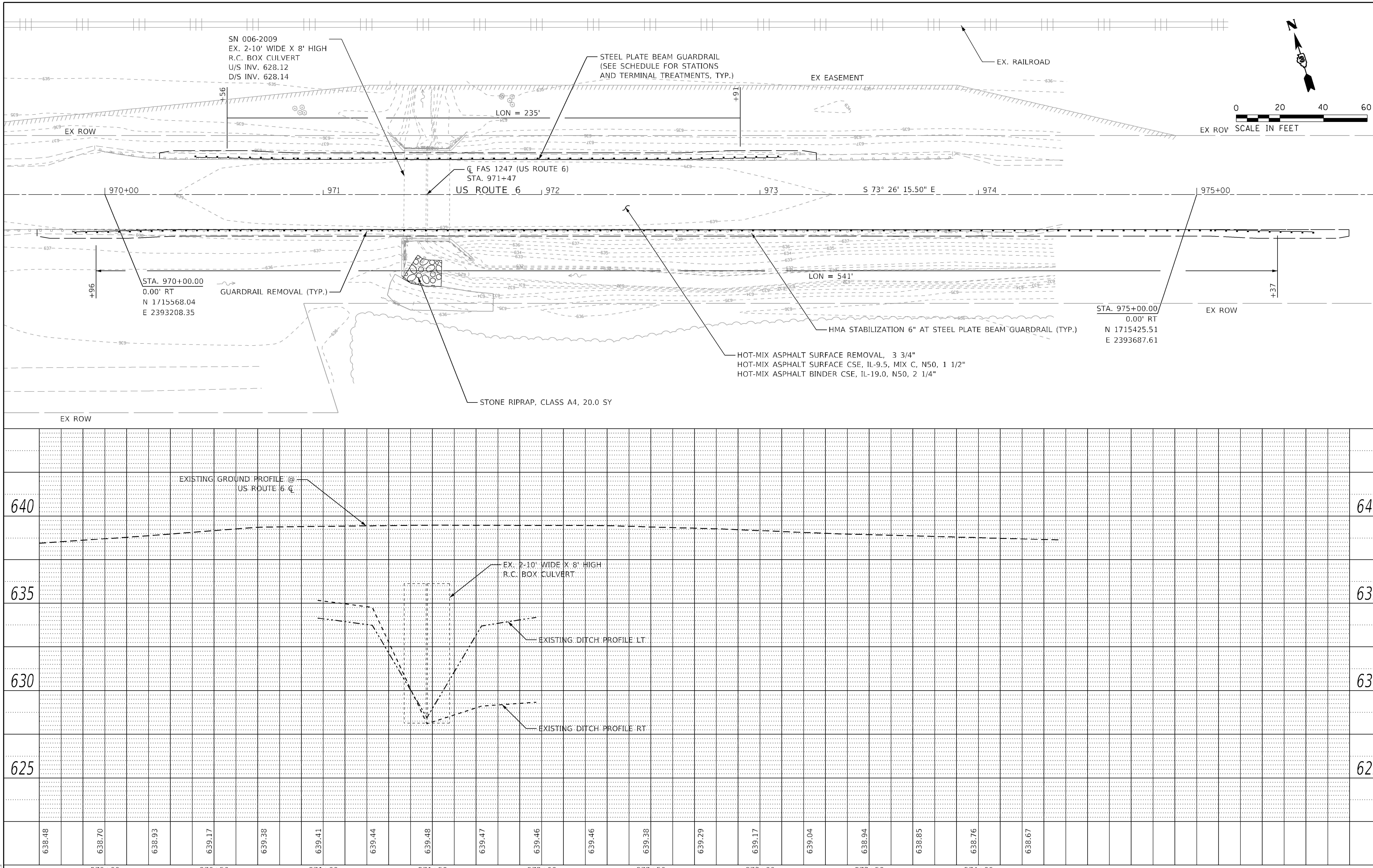
USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

SCALE: 1"=20' | SHEET 3 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	24
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		



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Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

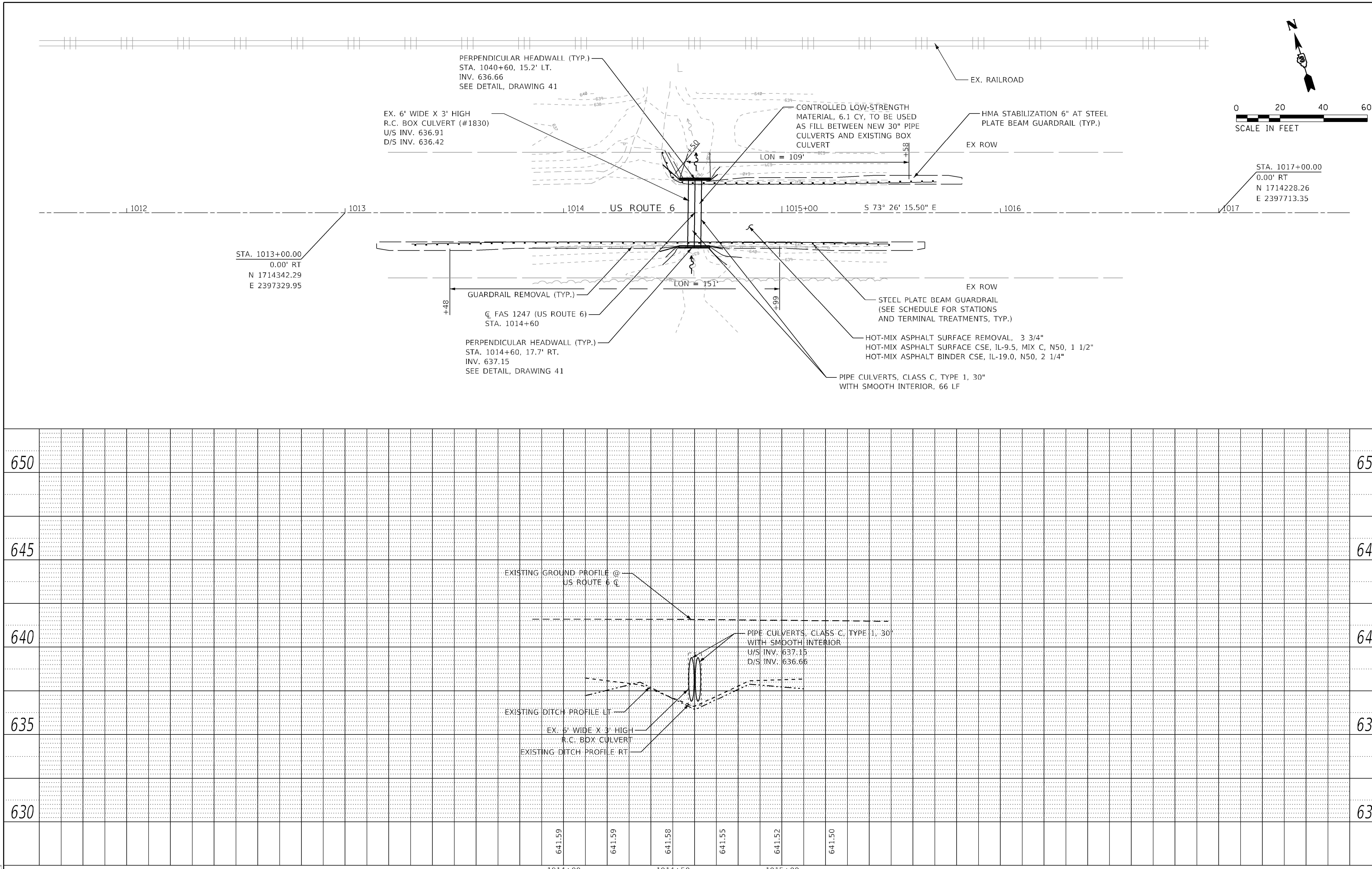
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

SCALE: 1"=20' | SHEET 4 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	25
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

MODEL: $MODELNAME$
FILE NAME: $FILE$



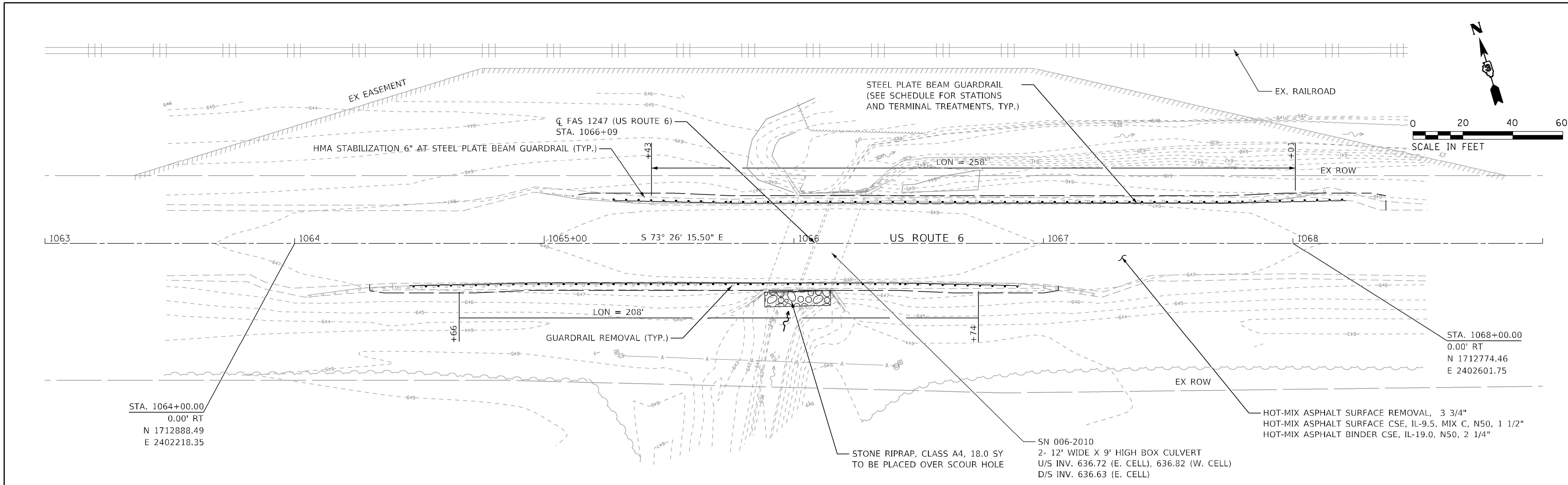
PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O. WAY CHECKED / CADD FILE NAME — BY — DATE

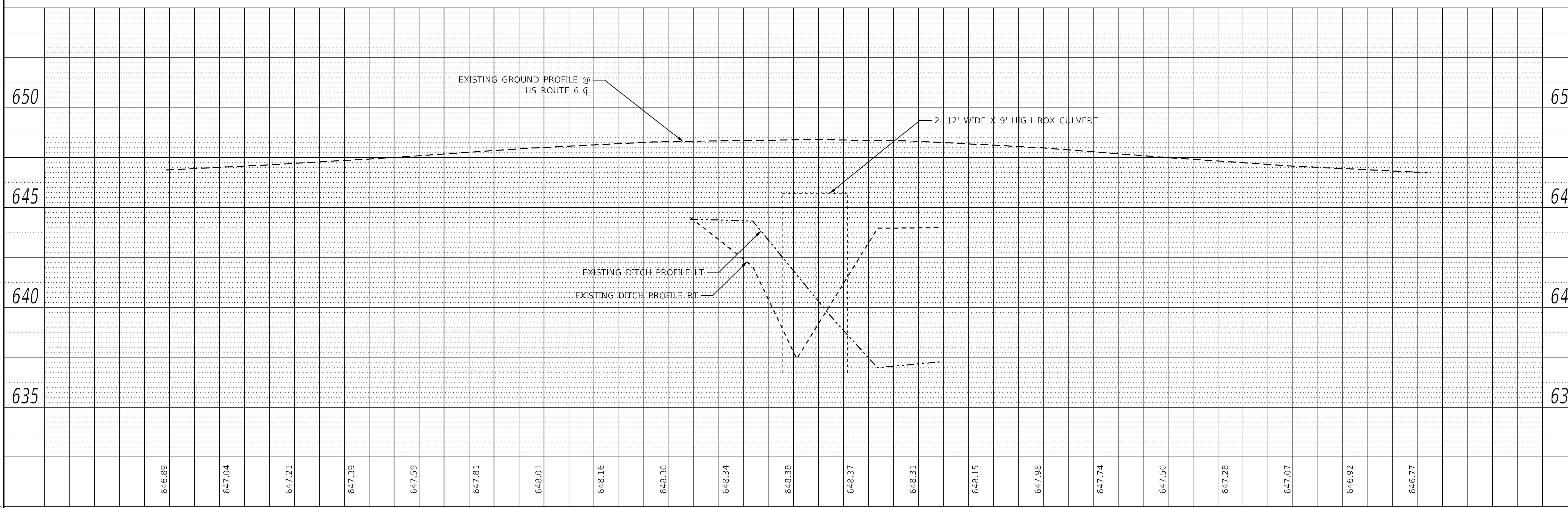
PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED — BY — DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) DRAINAGE PLAN AND PROFILE
		DRAWN - PAS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -		
	PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -		SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	26
		CONTRACT NO. 66A79		
	ILLINOIS	FED. AID PROJECT		





MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

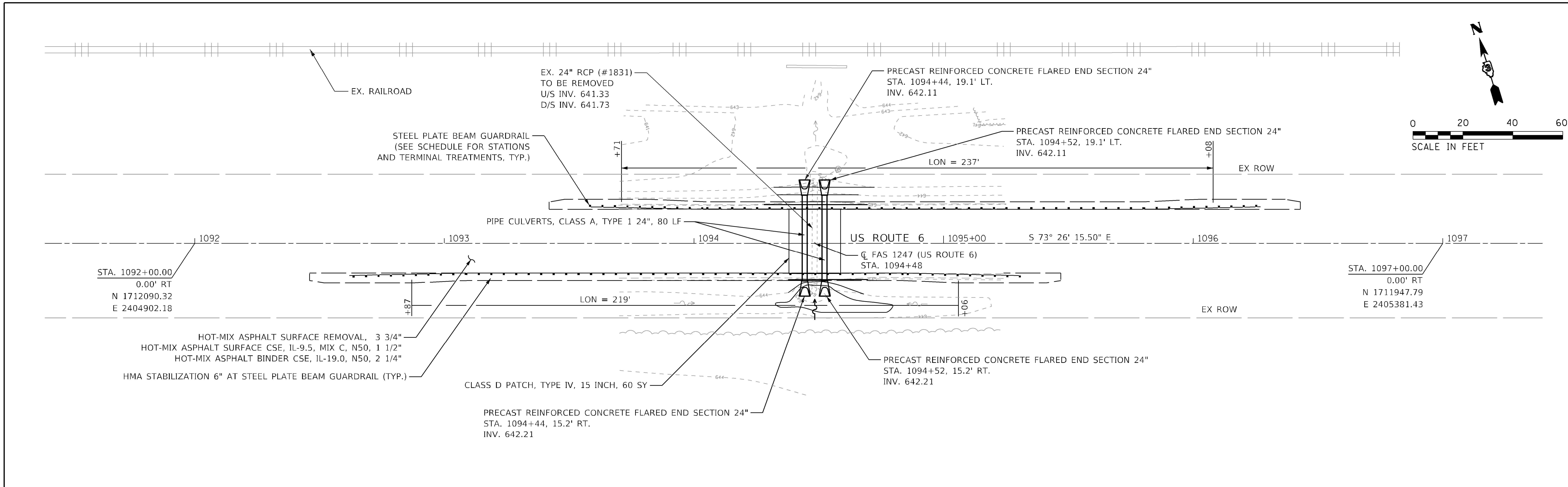
FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

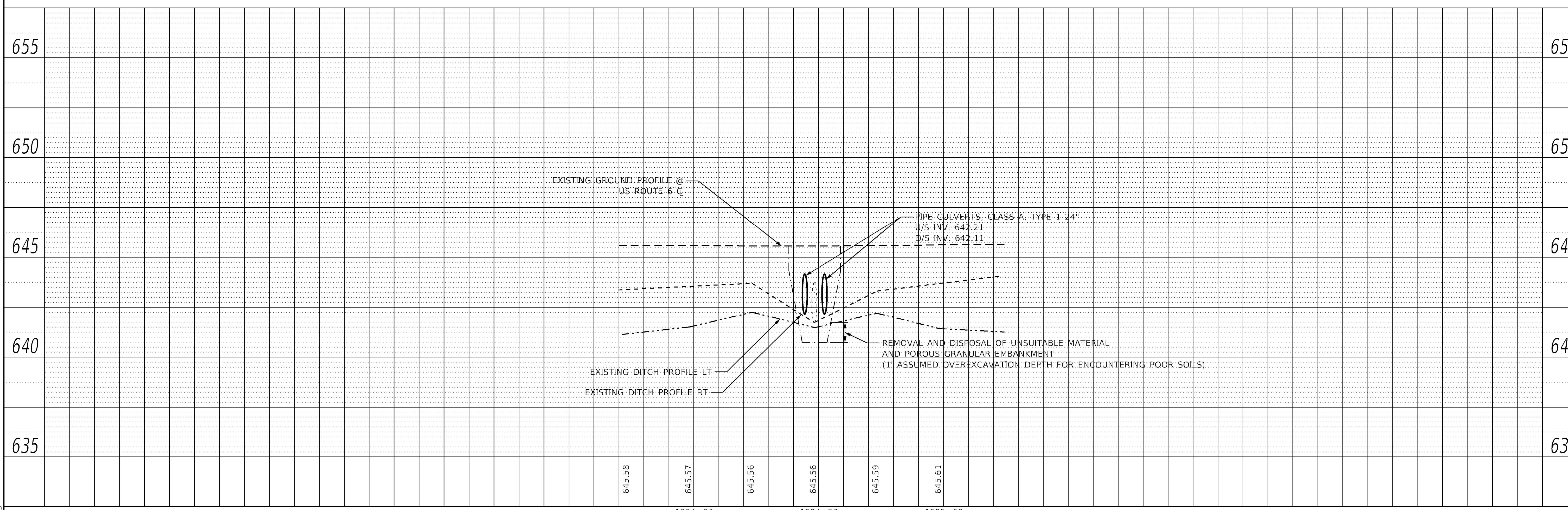
SCALE: 1"=20' | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	27

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT

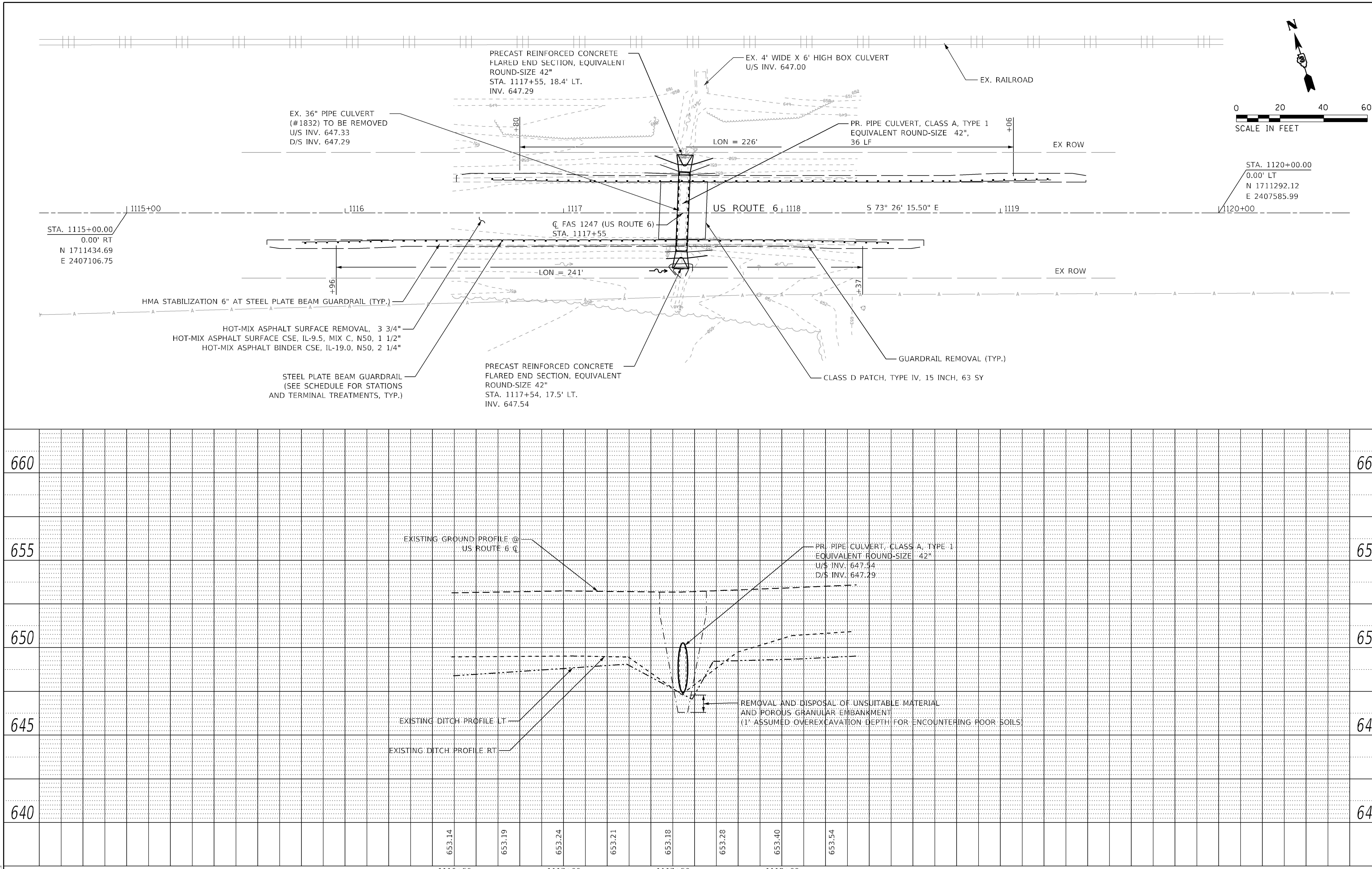




MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) DRAINAGE PLAN AND PROFILE
		DRAWN - PAS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -		
	PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -		SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	28
		CONTRACT NO. 66A79		
		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 NOTATIONS CHECKED — BY — DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
DRAINAGE PLAN AND PROFILE

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

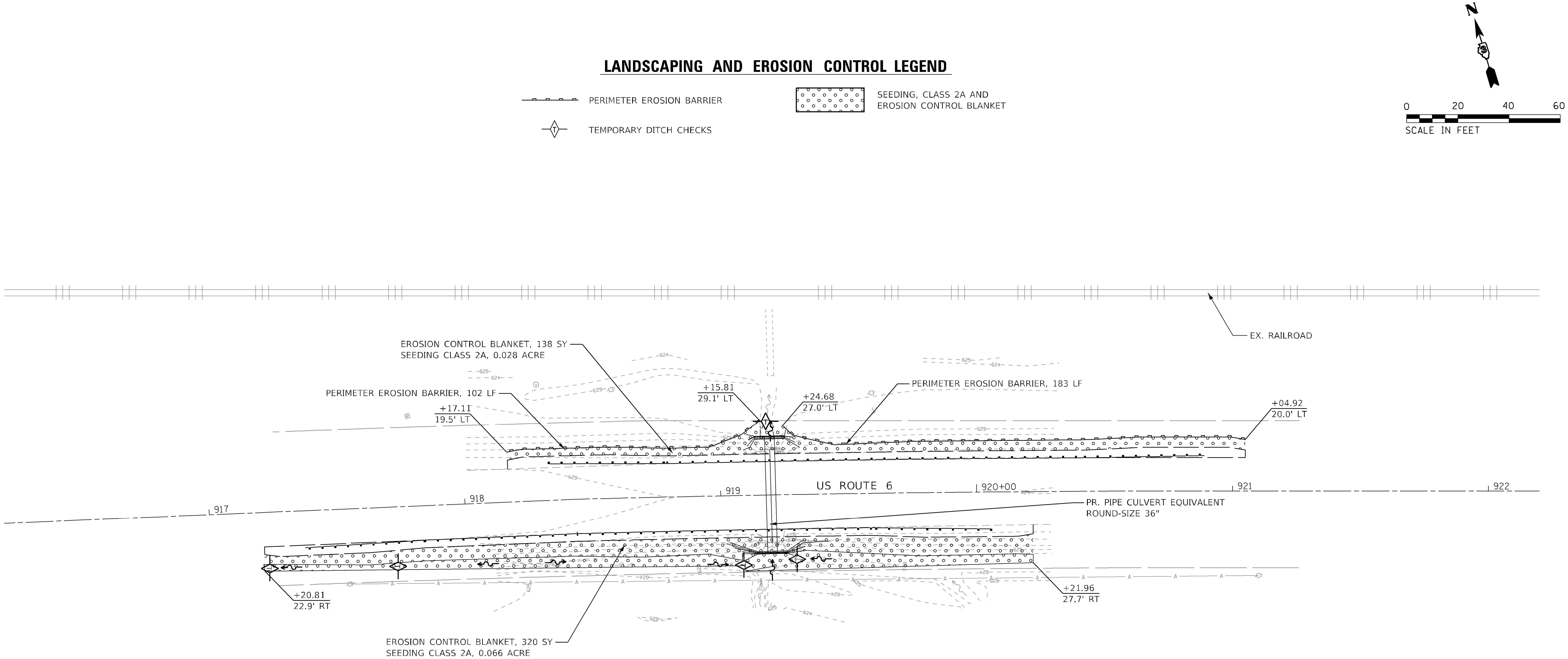
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	29
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND EROSION CONTROL BLANKET

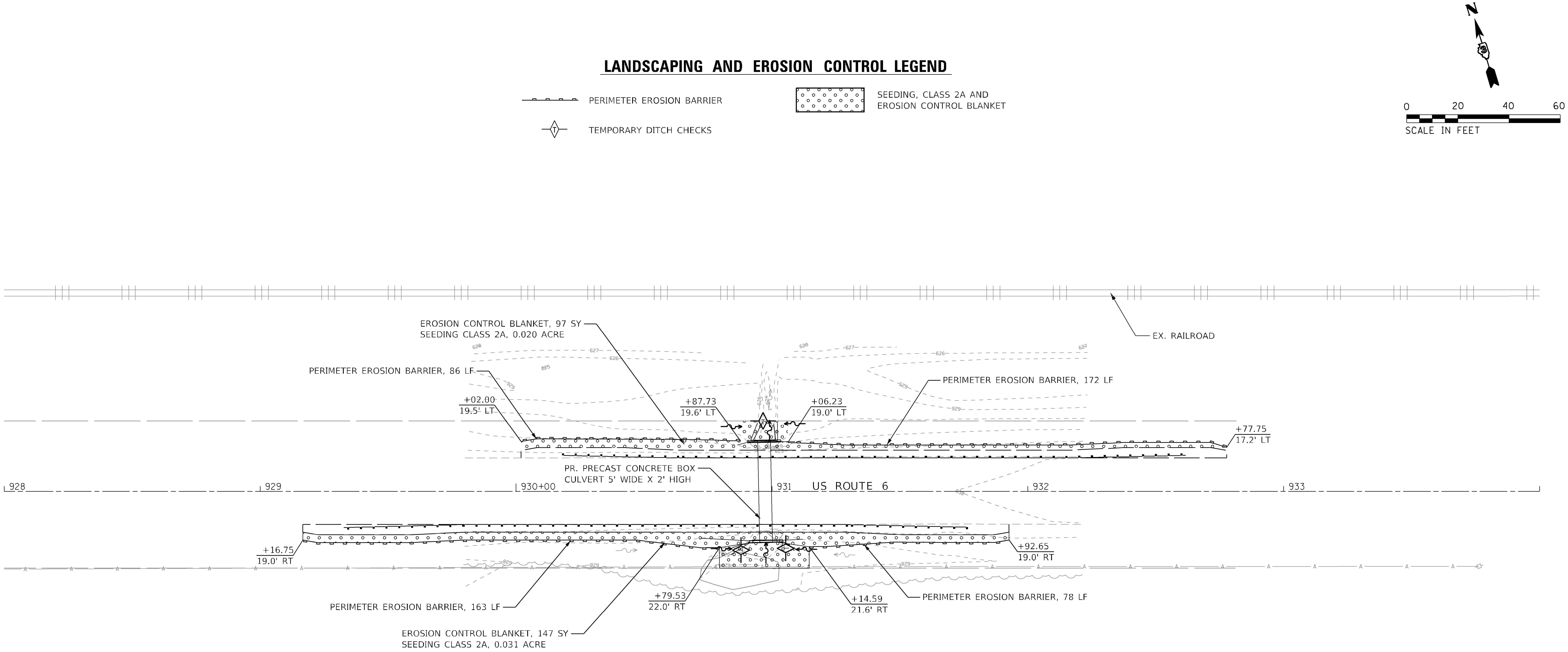


LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND EROSION CONTROL BLANKET



MODEL: $MODELNAME$
FILE NAME: $FILES

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
LANDSCAPING AND EROSION CONTROL PLAN

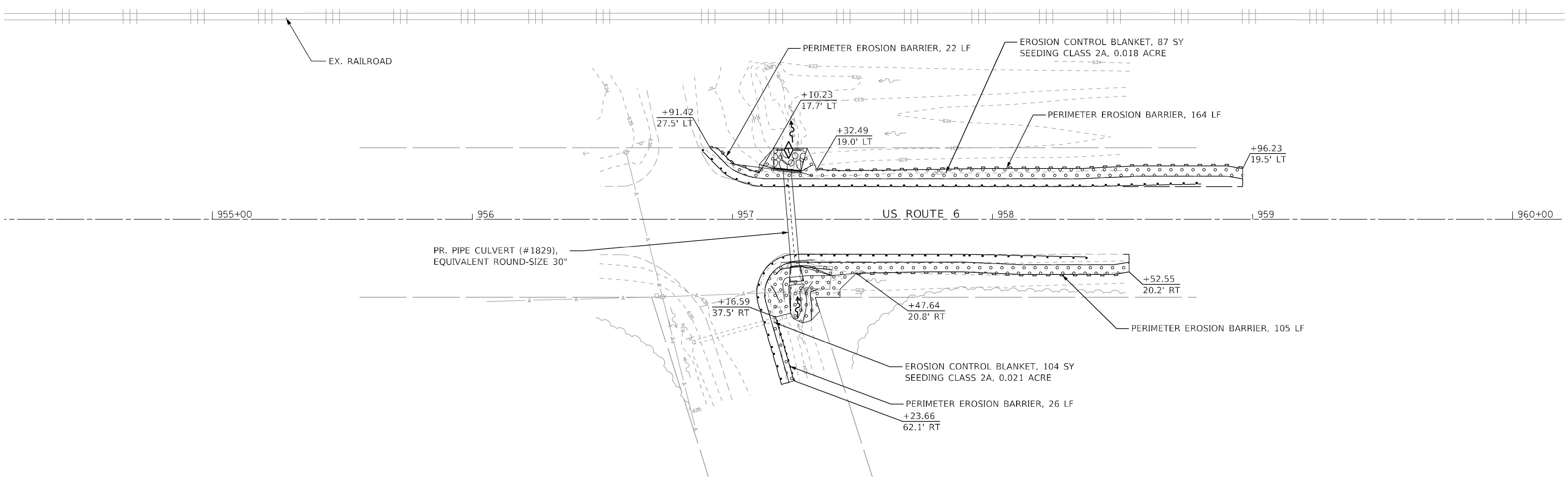
SCALE: 1"=20' | SHEET 2 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	31
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

LANDSCAPING AND EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- SEEDING, CLASS 2A AND EROSION CONTROL BLANKET

0 20 40 60
SCALE IN FEET



MODEL: $MODELNAME$
FILE NAME: $FILES$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET 3 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	32
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

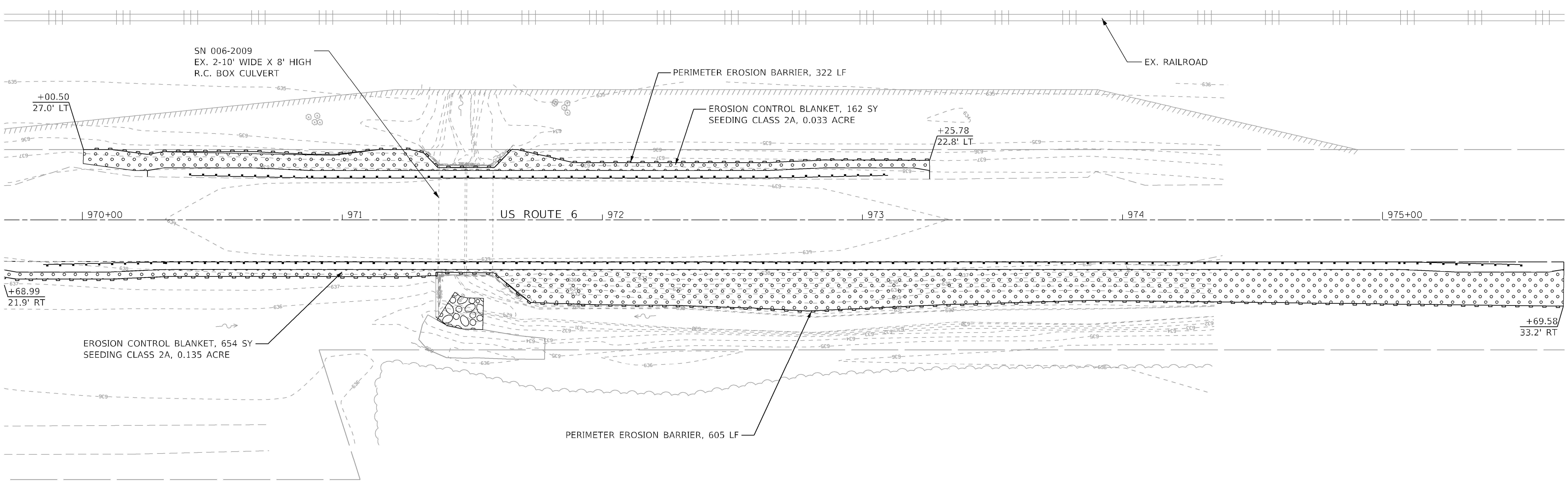
LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND EROSION CONTROL BLANKET

0 20 40 60
SCALE IN FEET



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) LANDSCAPING AND EROSION CONTROL PLAN	F.A.S. RTE.: 1247	SECTION: (5, 6, 7, 8) RS5
		DRAWN - PAS	REVISED -			COUNTY: BUREAU	TOTAL SHEETS: 53 / SHEET NO.: 33
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -		SCALE: 1"=20' SHEET 4 OF 8 SHEETS STA. TO STA.	CONTRACT NO. 66A79	
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -			ILLINOIS FED. AID PROJECT	

MODEL: $MODELNAME$
FILE NAME: $FILE$

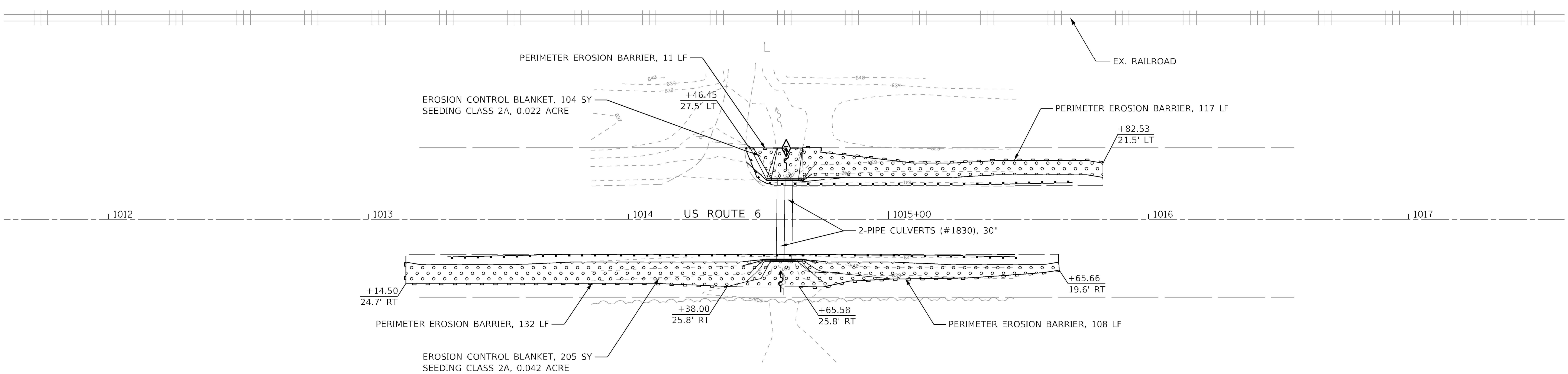
LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND
EROSION CONTROL BLANKET

0 20 40 60
SCALE IN FEET



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -
		DRAWN - PAS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
LANDSCAPING AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET 5 OF 8 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	34
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

LANDSCAPING AND EROSION CONTROL LEGEND

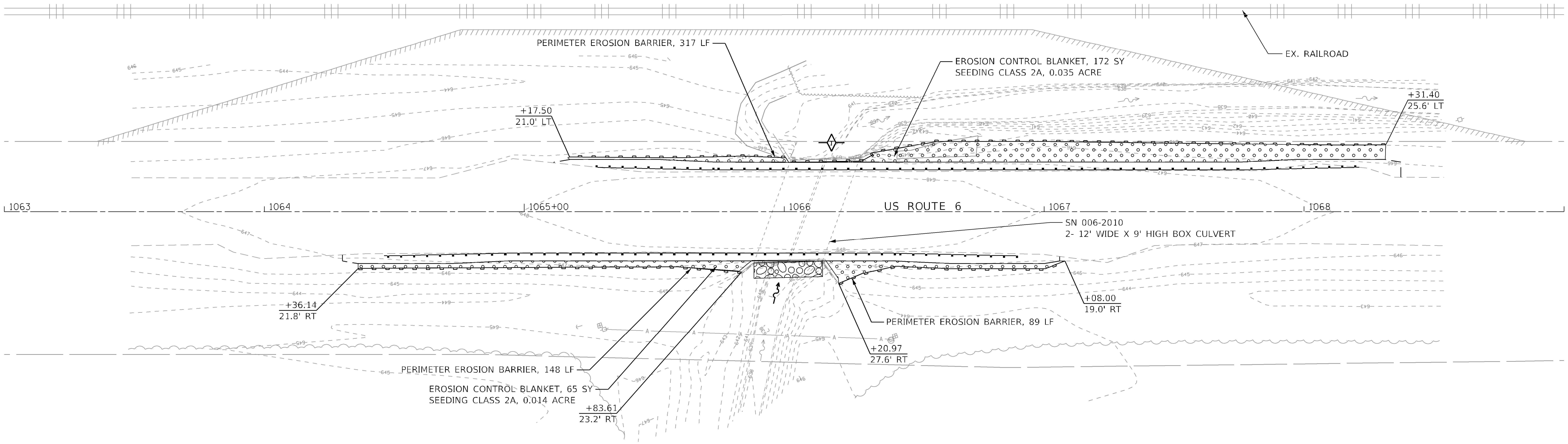
PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND
EROSION CONTROL BLANKET

N

0 20 40 60
SCALE IN FEET



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) LANDSCAPING AND EROSION CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PAS	REVISED -			1247	(5, 6, 7, 8) RS5	BUREAU	53	35
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -			CONTRACT NO. 66A79				
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -		SCALE: 1"=20' SHEET 6 OF 8 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

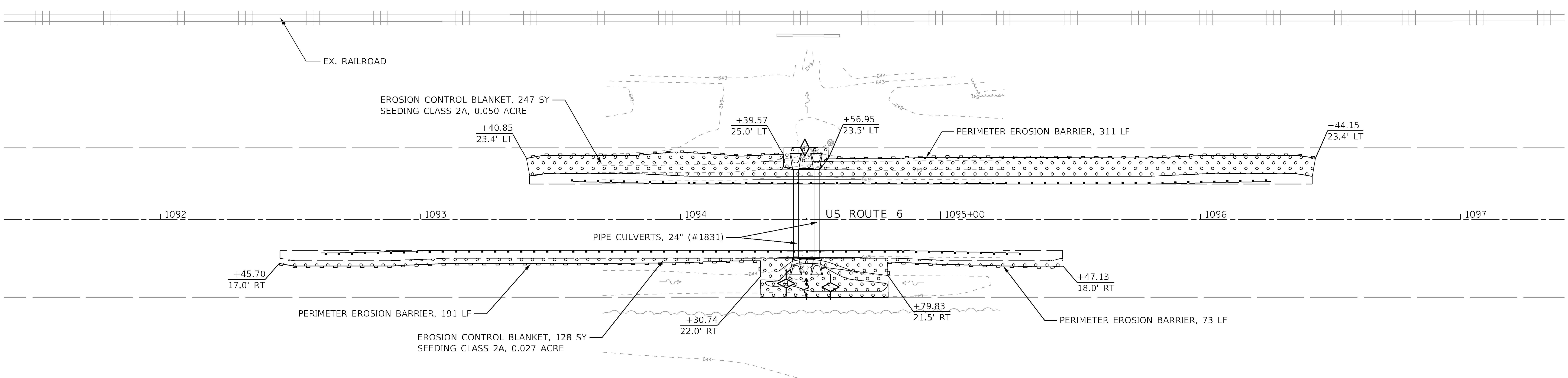
LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND
EROSION CONTROL BLANKET

0 20 40 60
SCALE IN FEET



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) LANDSCAPING AND EROSION CONTROL PLAN
		DRAWN - PAS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -		
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -		SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	36
		CONTRACT NO. 66A79		
	ILLINOIS FED. AID PROJECT			

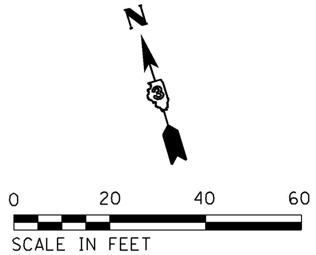
MODEL: $MODELNAME$
FILE NAME: $FILEL$

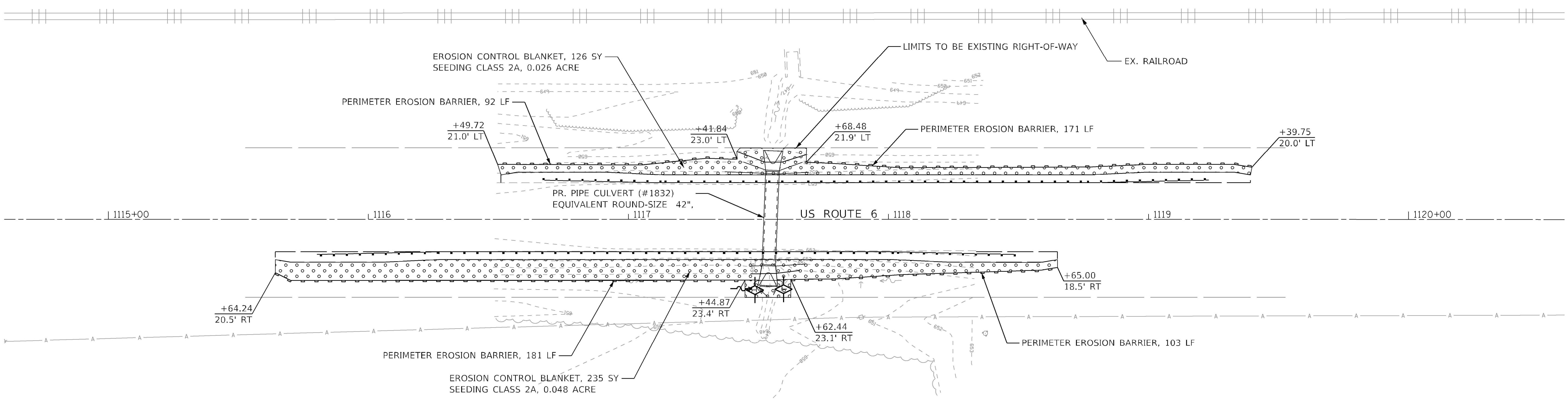
LANDSCAPING AND EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

TEMPORARY DITCH CHECKS

SEEDING, CLASS 2A AND EROSION CONTROL BLANKET





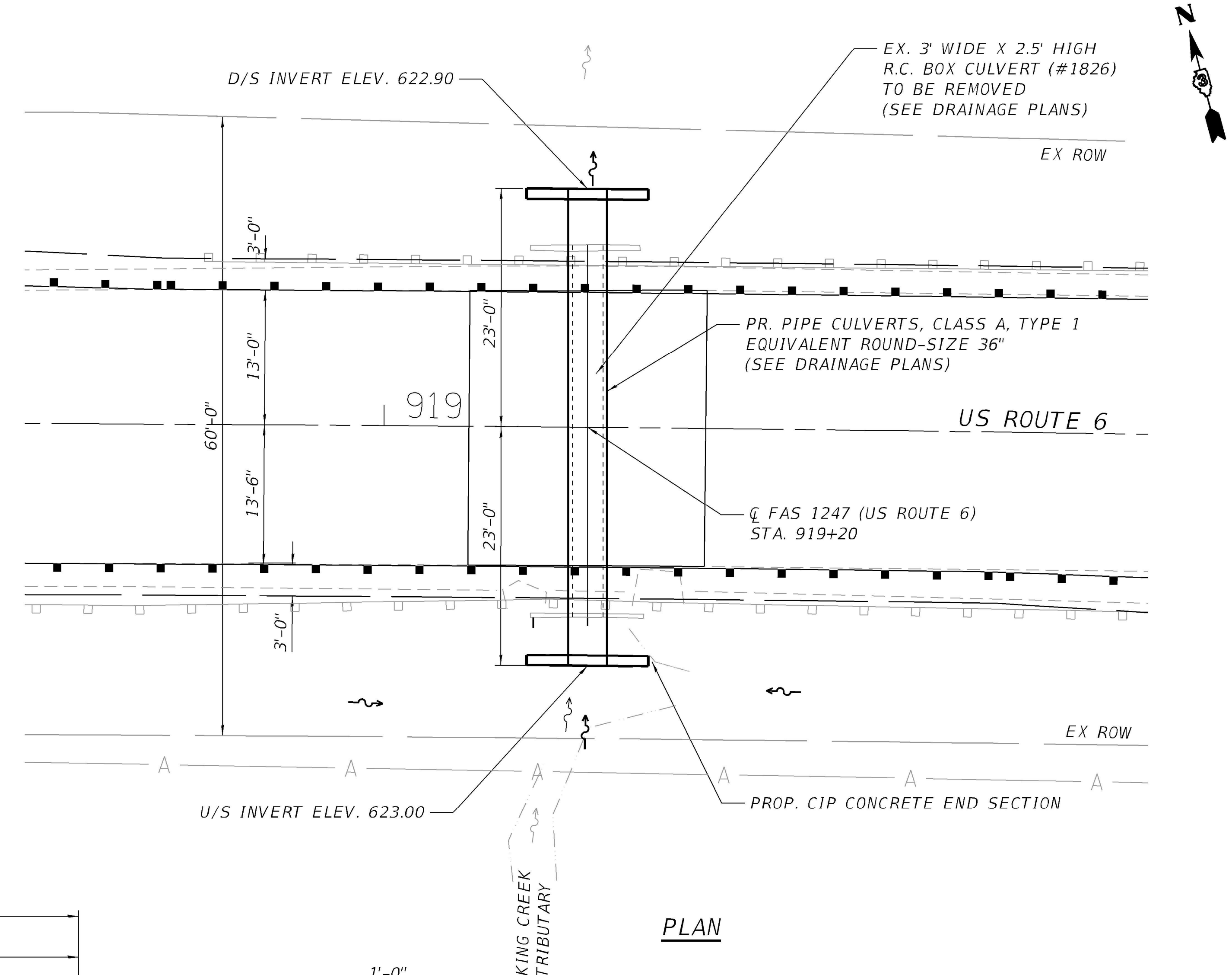
MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS ROUTE 1247 (US ROUTE 6) LANDSCAPING AND EROSION CONTROL PLAN
		DRAWN - PAS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -		
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -		SCALE: 1"=20' SHEET 8 OF 8 SHEETS STA. TO STA.

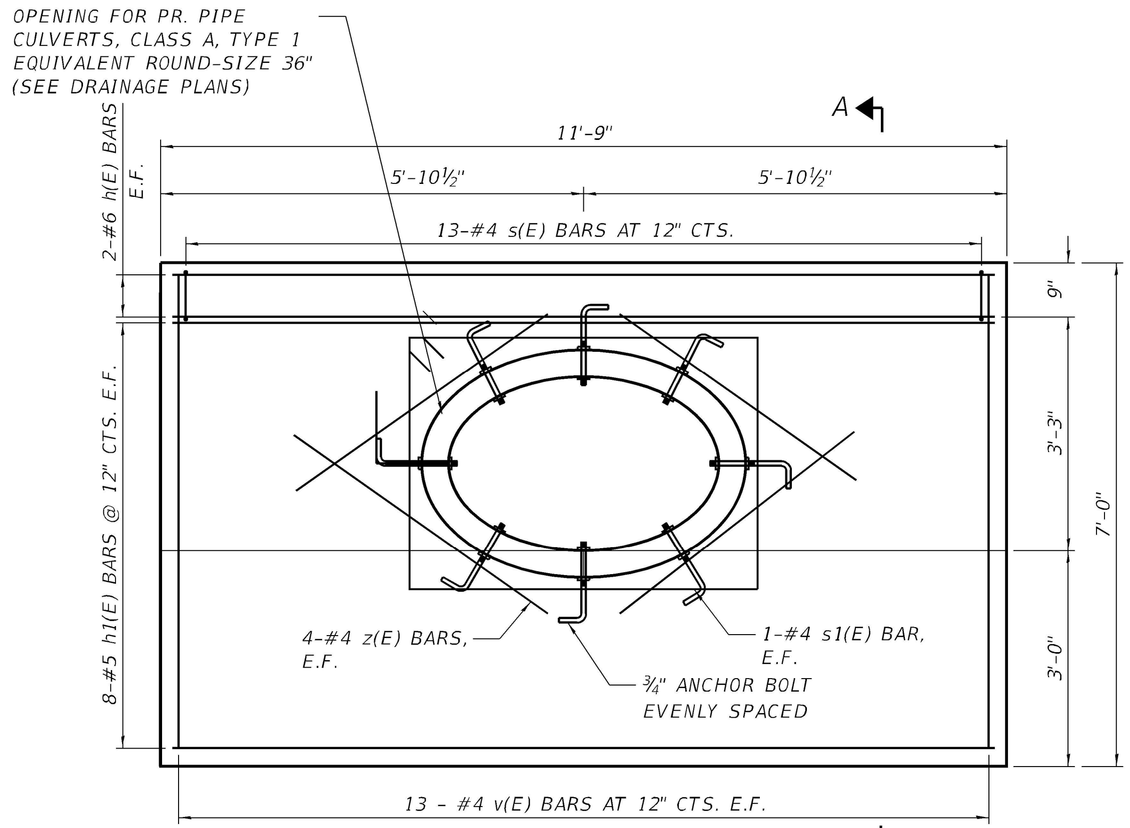
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	37
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

BENCHMARK:
NGS MONUMENT MF1021 DISK IN WEST SIDE OF SOUTH CONC HEADWALL
RECORD ELEV: 627.21 (NAVD88)
MEASURED ELEV: 627.17 (NAVD88)

EXISTING STRUCTURE:
EXISTING STRUCTURE IS A 3X2½ BOX CULVERT WITH HORIZONTAL CANTILEVER PERPENDICULAR WINGWALLS.

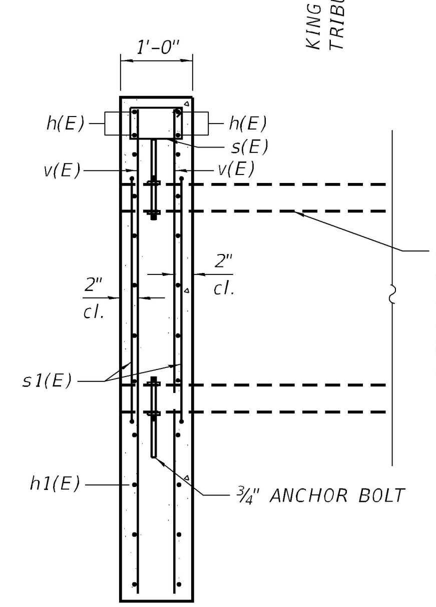


PLAN

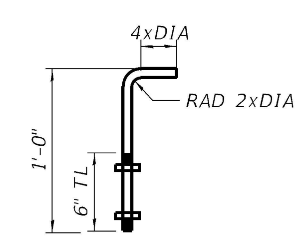


END SECTION ELEVATION VIEW A

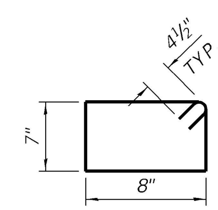
DOWNSTREAM END SHOWN ABOVE, USE THE SAME DETAIL FOR UPSTREAM END.



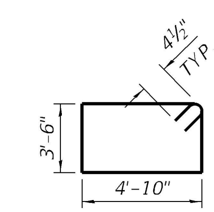
SECTION A-A



ANCHOR BOLT, ¾" DETAIL



BAR S(E)



BAR S1(E)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION

ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT MANUAL, 2017

DESIGN STRESSES

FIELD UNITS

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

LOADING HL-93

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

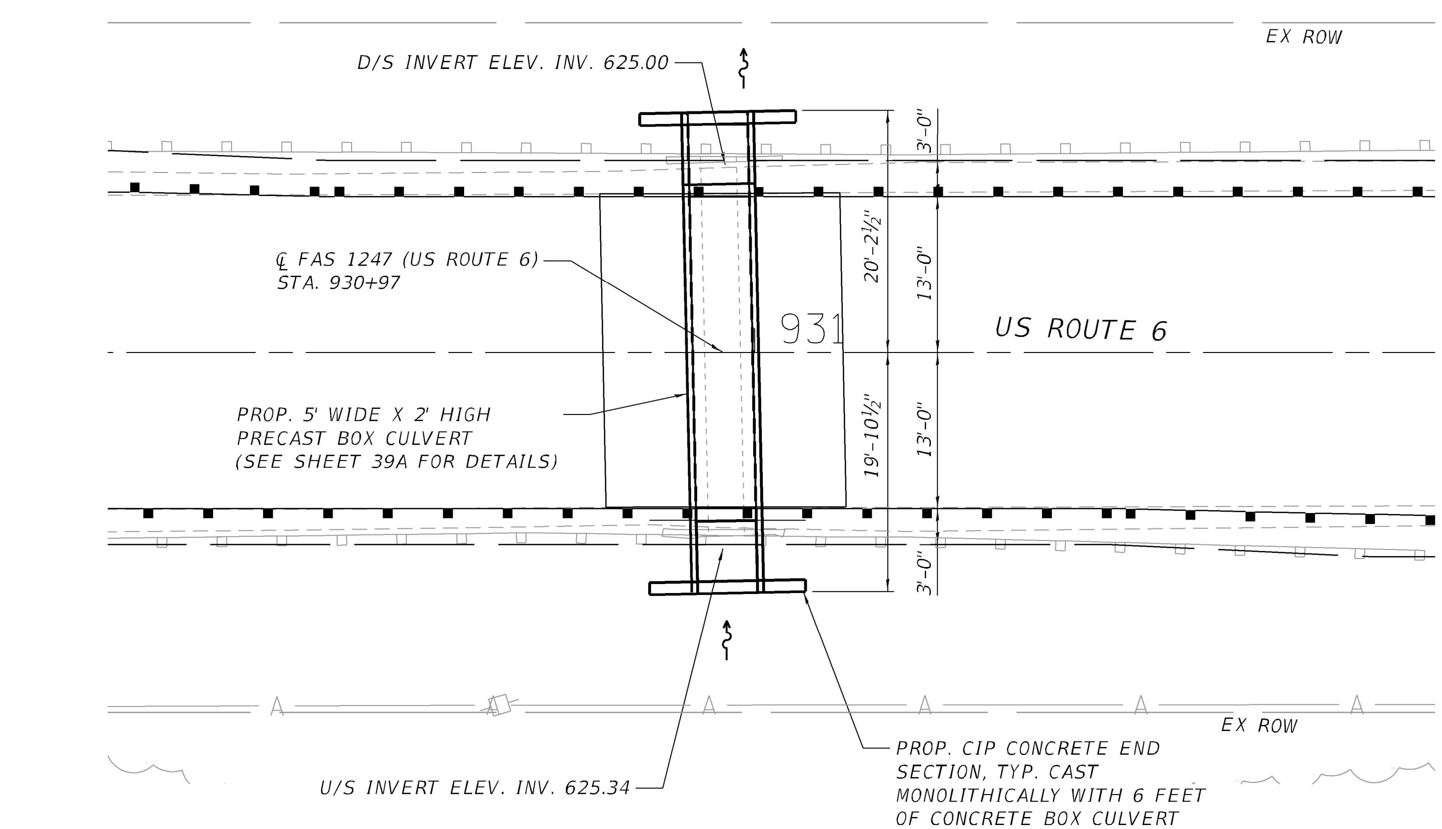
BILL OF MATERIAL
END SECTION ONLY

Bar	No.	Size	Length	Shape
h(E)	8	#6	11'-5"	—
h1(E)	32	#5	11'-5"	—
s(E)	26	#4	3'-3"	☐
s1(E)	4	#4	17'-5"	☐
v(E)	52	#4	6'-7"	—
z(E)	16	#4	4'-6"	—
CONCRETE STRUCTURES			CU. YD.	5.3
REINFORCEMENT BARS, EPOXY COATED			POUND	1,041
ANCHOR BOLTS ¾"			EACH	16

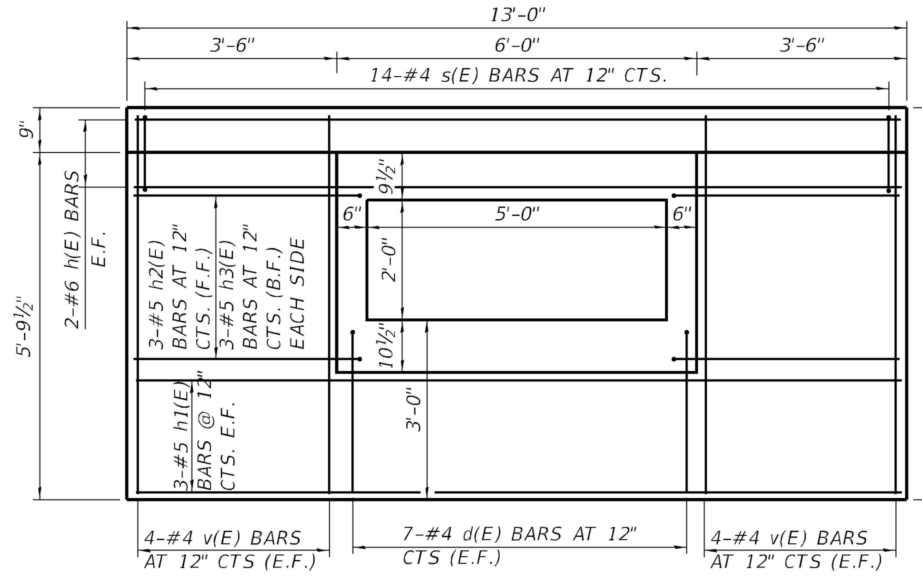
NOTES:
1. CUT h1(E) AND v(E) BARS AS REQUIRED FOR THE PIPE OPENING.
2. PIPE OUTSIDE SURFACE WITHIN END SECTION SHALL BE CLEAN AND FREE OF LAITANCE WITH SURFACE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF 1/4".
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GRADE 60.
4. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
5. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS ASTM F1554 Grade 36 OR AN ENGINEER-APPROVED ALTERNATE MATERIAL.

BENCHMARK:
NAIL FOUND IN PP
ELEV: 627.67 (NAVD88)

EXISTING STRUCTURE:
EXISTING STRUCTURE IS A 31'-6" LONG 3X2 BOX CULVERT WITH HORIZONTAL CANTILEVER PERPENDICULAR WINGWALLS.

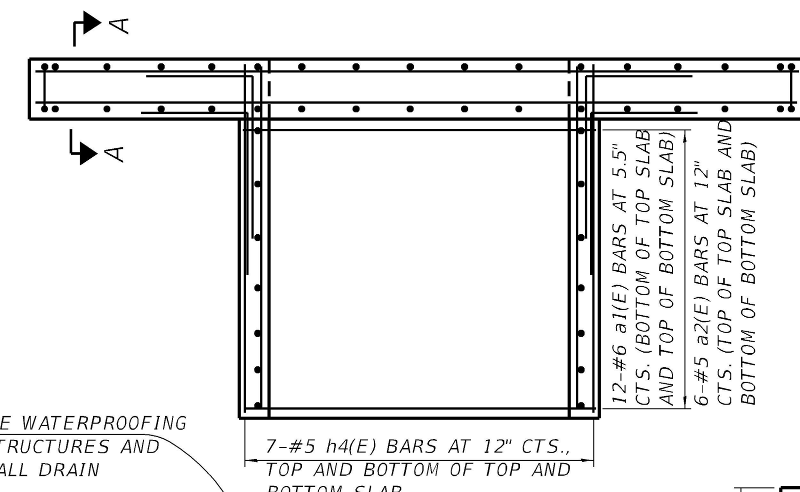


PLAN



END SECTION ELEVATION VIEW

DOWNSTREAM END SHOWN ABOVE, USE THE SAME DETAIL FOR UPSTREAM END.



BOX CULVERT PLAN

DESIGN SPECIFICATIONS

2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION

ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT MANUAL, 2017

DESIGN STRESSES

FIELD UNITS

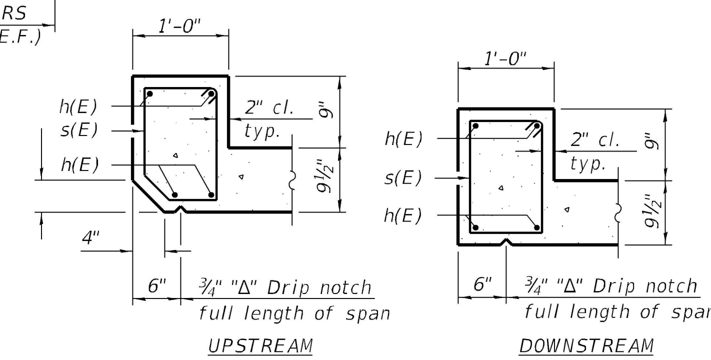
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

PRECAST UNITS

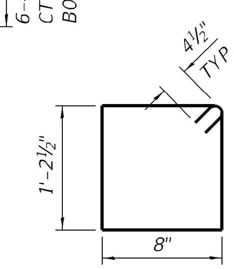
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

LOADING HL-93

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



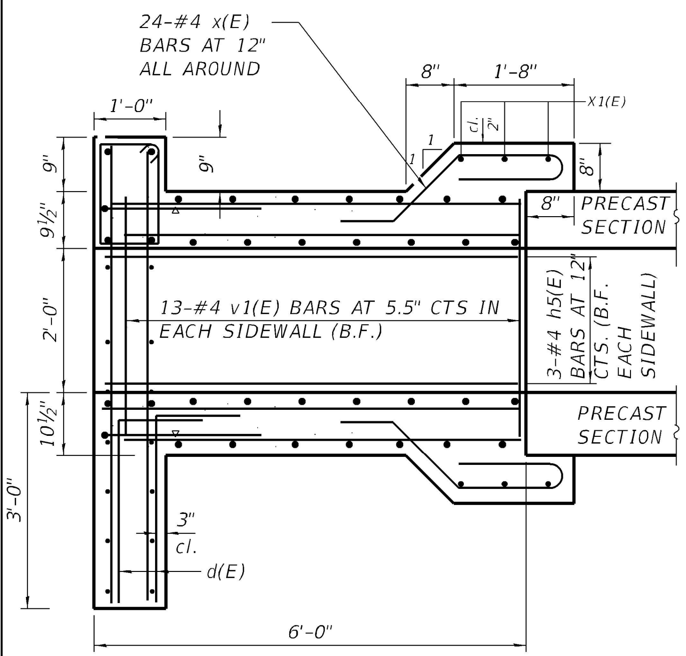
SECTION THRU HEADWALL



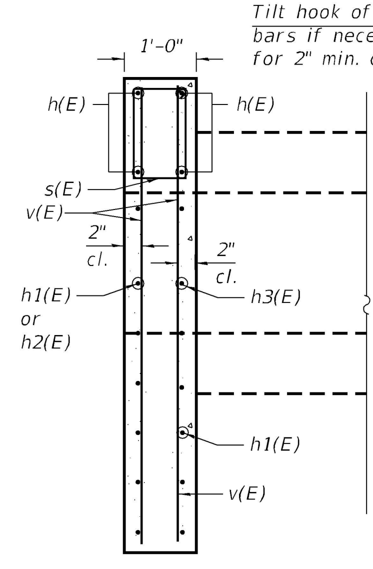
BAR s(E)

BILL OF MATERIAL

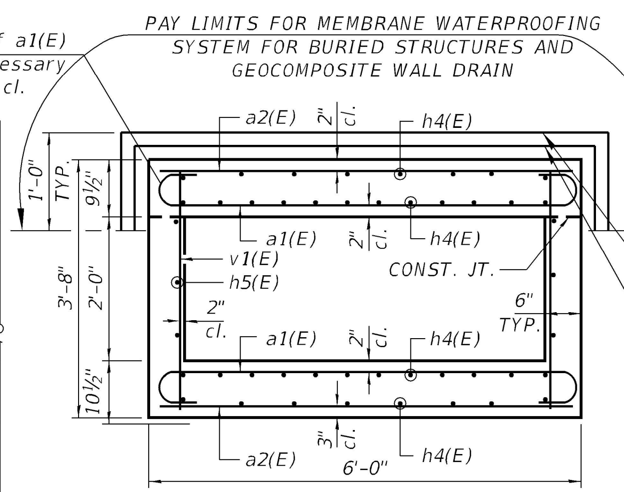
Bar	No.	Size	Length	Shape
a1(E)	48	#6	7'-0"	
a2(E)	24	#5	5'-8"	
h(E)	8	#6	12'-8"	
h1(E)	12	#5	12'-8"	
h2(E)	12	#5	8'-8"	
h3(E)	12	#5	8'-2"	
h4(E)	56	#5	5'-8"	
h5(E)	12	#4	5'-8"	
s(E)	28	#4	4'-6"	
v(E)	32	#4	6'-2"	
v1(E)	52	#4	3'-4"	
d(E)	28	#4	4'-5"	
x(E)	48	#4	7'-0"	
CONCRETE BOX CULVERT			CU. YD.	5.4
CONCRETE STRUCTURES			CU. YD.	7.1
REINFORCEMENT BARS, EPOXY COATED			POUND	2,190
PRECAST CONCRETE BOX CULVERT 5'x2'			FOOT	28
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES			SQ. YD.	34
GEOCOMPOSITE WALL DRAIN			SQ. YD.	34
POROUS GRANULAR EMBANKMENT			CU. YD.	82



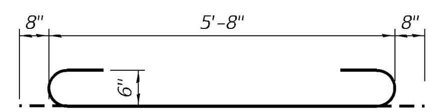
LONGITUDINAL SECTION



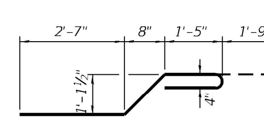
SECTION A-A



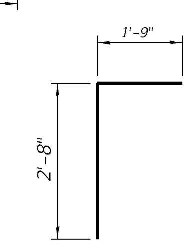
SECTION THRU BARREL



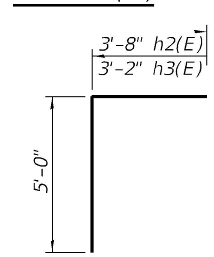
BAR a1(E)



BAR x(E)



BAR d(E)



BARS h2(E) AND h3(E)

NOTES:
1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GRADE 60.
2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
3. SEE SHEET 39A FOR DRAIN DETAIL AND POROUS GRANULAR EMBANKMENT LIMITS.

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME =	DESIGNED - PP	REVISED -	
	CHECKED - JC	REVISED -	
PLOT SCALE =	DRAWN - PP	REVISED -	
PLOT DATE =	CHECKED - JC	REVISED -	

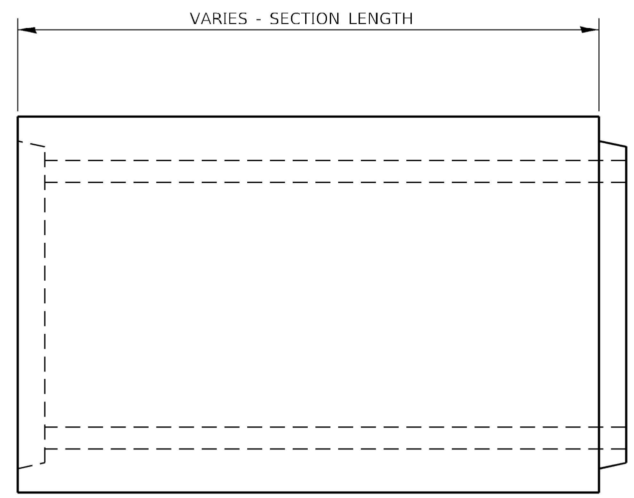
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CULVERT # 1827 END SECTION DETAIL

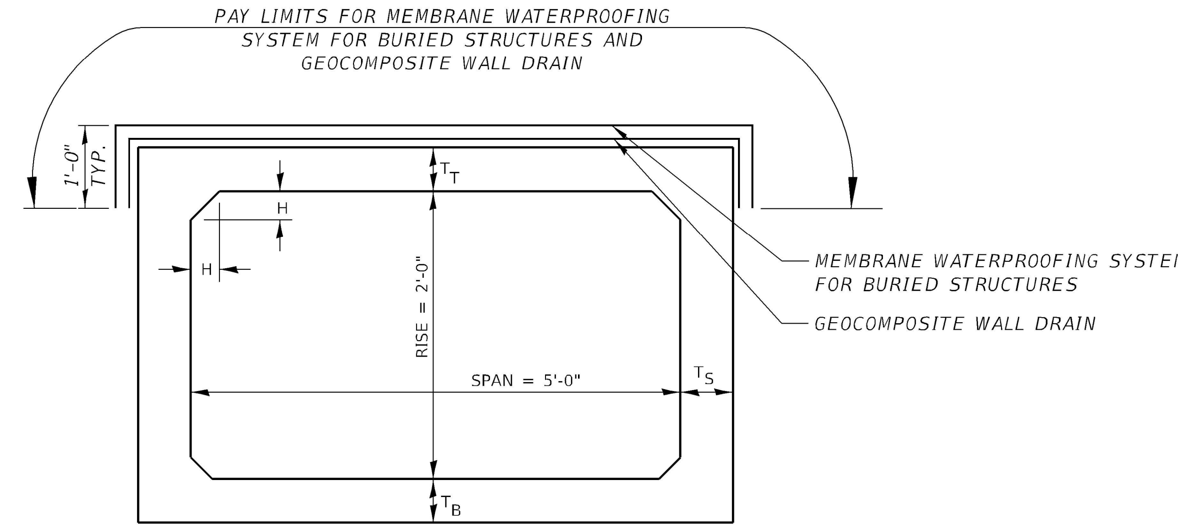
SHEET OF SHEETS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	39
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

3/30/2022 5:03:32 PM

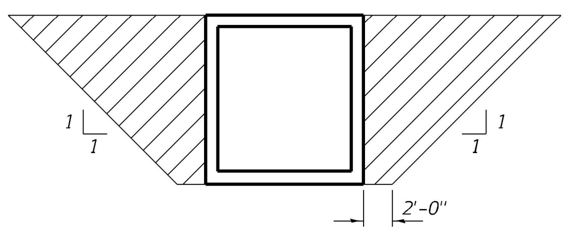


ELEVATION



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T_S.

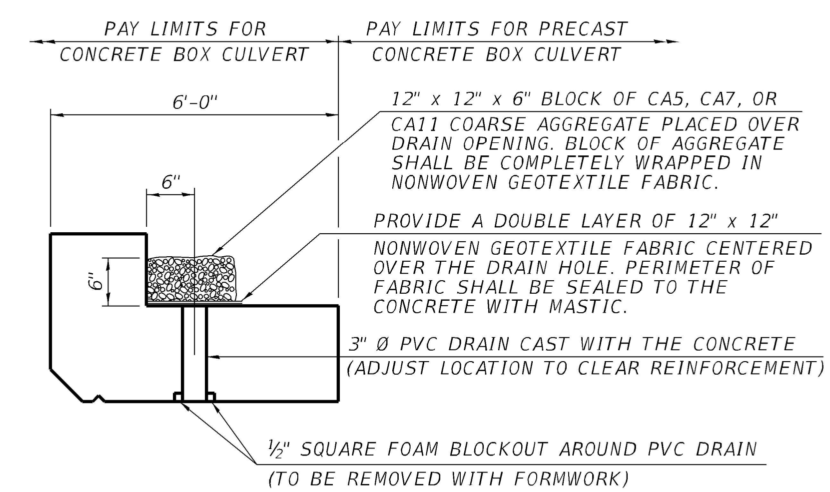
TYPICAL BOX SECTION



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)

SPAN, FEET	T_T, INCHES		T_B, INCHES		T_S, INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7½	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

TYPICAL THICKNESSES



DRAIN DETAIL

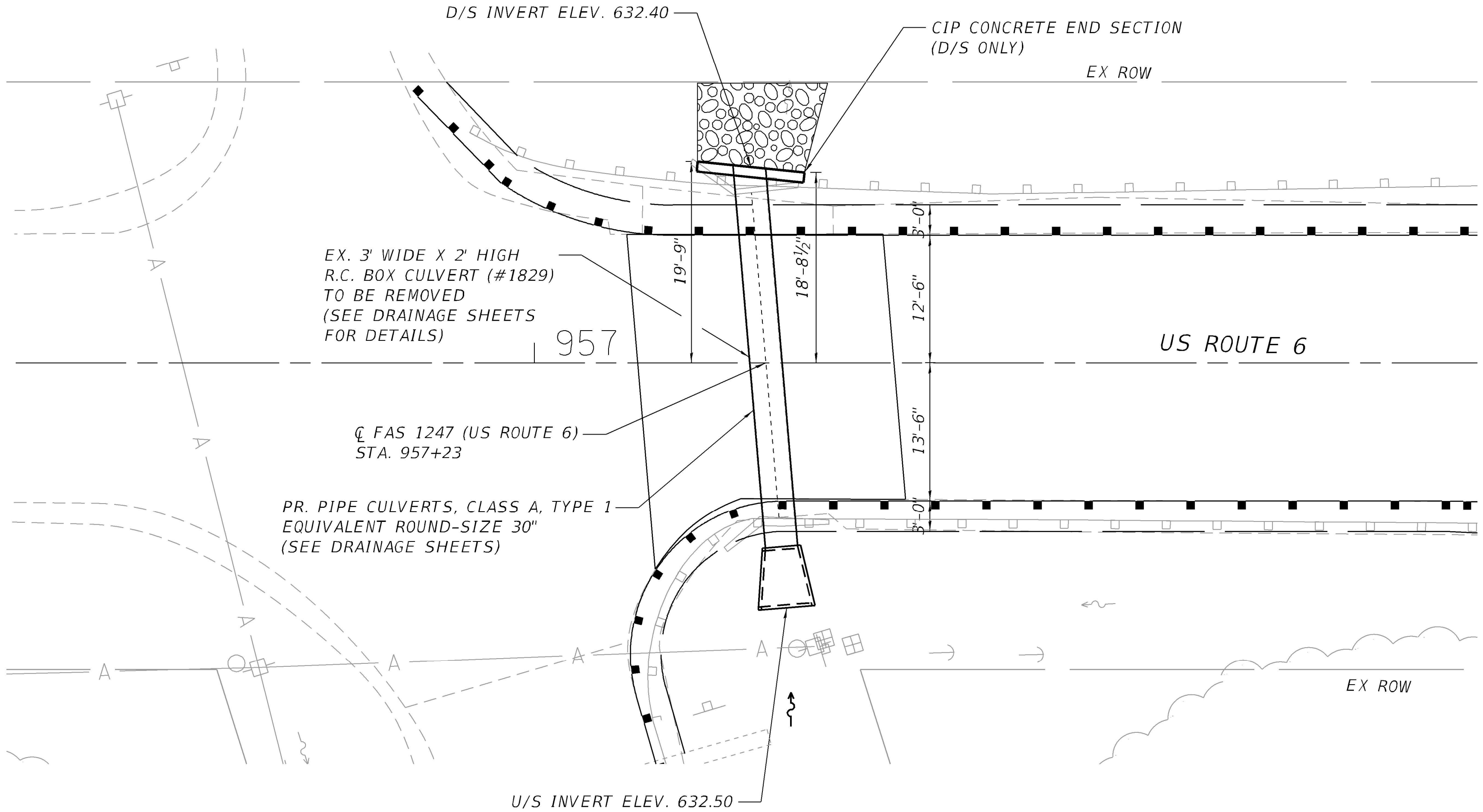
(ALL COSTS ASSOCIATED WITH FURNISHING AND CONSTRUCTING THE ABOVE DRAIN DETAIL WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ASSOCIATED WORK.)

GENERAL NOTES:

1. *MINIMUM COVER FOR BOX CULVERTS SHALL BE 6 IN.*
2. *THE DESIGN FILL HEIGHT FOR THIS BOX IS 2 FT. THE PRECAST BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1577.*
3. *PROVIDE 12 IN. THICK LAYER OF POROUS GRANULAR MATERIAL FOR THE PRECAST CONCRETE BOX CULVERT AND END SECTIONS PER ART. 540.06 OF THE STANDARD SPECIFICATIONS.*
4. *NONWOVEN GEOTEXTILE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ART. 1080.01 OF THE STANDARD SPECIFICATIONS. THE MINIMUM WEIGHT OF FABRIC SHALL BE 6 OUNCES PER SQUARE YARD.*
5. *GEOCOMPOSITE WALL DRAIN SHALL BE ACCORDING TO SECTION 591 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT CONCRETE NAILS SHALL NOT BE USED IN AREAS WHERE IT OVERLAPS MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES.*

BENCHMARK:
NAIL FND IN PP
ELEV: 635.14 (NAVD88)

EXISTING STRUCTURE:
EXISTING STRUCTURE IS A 3X2 BOX CULVERT WITH HORIZONTAL CANTILEVER WINGWALLS.



PLAN

DESIGN SPECIFICATIONS

2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION

ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT MANUAL, 2017

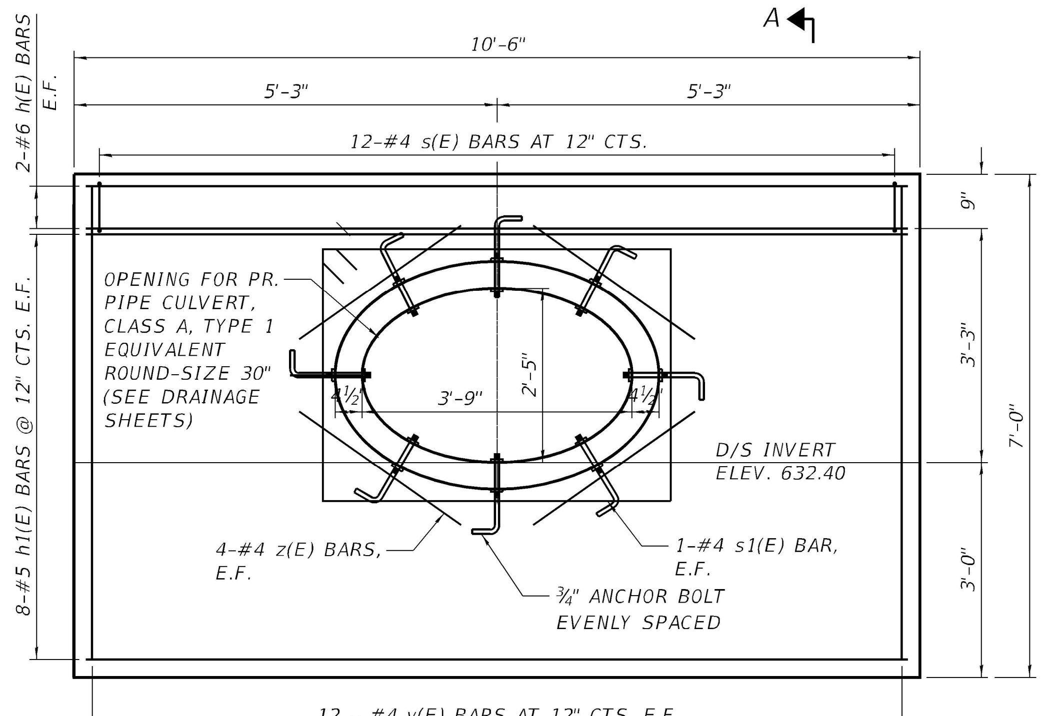
DESIGN STRESSES

FIELD UNITS

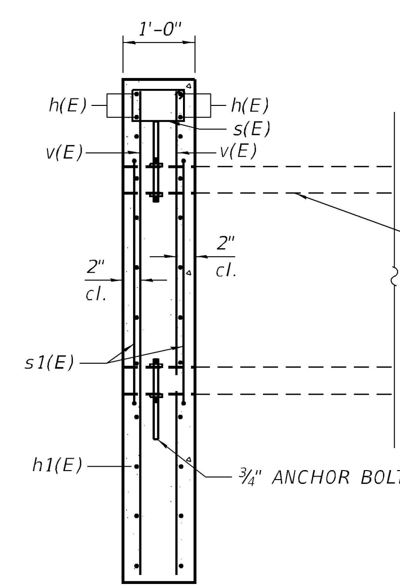
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

LOADING HL-93

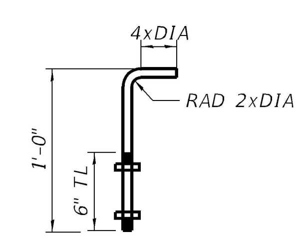
Allow 50#/sq. ft. for future wearing surface.



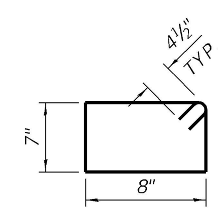
END SECTION ELEVATION VIEW
DOWNSTREAM ONLY



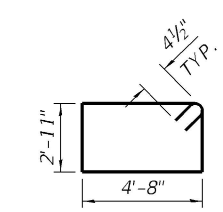
SECTION A-A



ANCHOR BOLT, ¾" DETAIL



BAR S(E)



BAR S1(E)

BILL OF MATERIAL
END SECTION ONLY

Bar	No.	Size	Length	Shape
h(E)	4	#6	10'-2"	—
h1(E)	16	#5	10'-2"	—
s(E)	12	#4	3'-3"	▢
s1(E)	2	#4	15'-11"	▢
v(E)	24	#4	6'-7"	—
z(E)	8	#4	4'-6"	—
CONCRETE STRUCTURES			CU. YD.	4.8
REINFORCEMENT BARS, EPOXY COATED			POUND	441
ANCHOR BOLTS ¾"			EACH	8

NOTES:
1. CUT h1(E) AND v(E) BARS AS REQUIRED FOR THE PIPE OPENING.
2. PIPE OUTSIDE SURFACE WITHIN END SECTION SHALL BE CLEAN AND FREE OF LAITANCE WITH SURFACE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF 1/4".
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GRADE 60.
4. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
5. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS ASTM F1554 Grade 36 OR AN ENGINEER-APPROVED ALTERNATE MATERIAL.

MODEL: $MODELNAME$
FILE NAME: $FILEL$

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Chicago, Illinois 60606

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	CHECKED - JC	REVISED -	
PLOT SCALE =	DRAWN - PP	REVISED -	
PLOT DATE =	CHECKED - JC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CULVERT # 1829 DOWNSTREAM END SECTION DETAIL

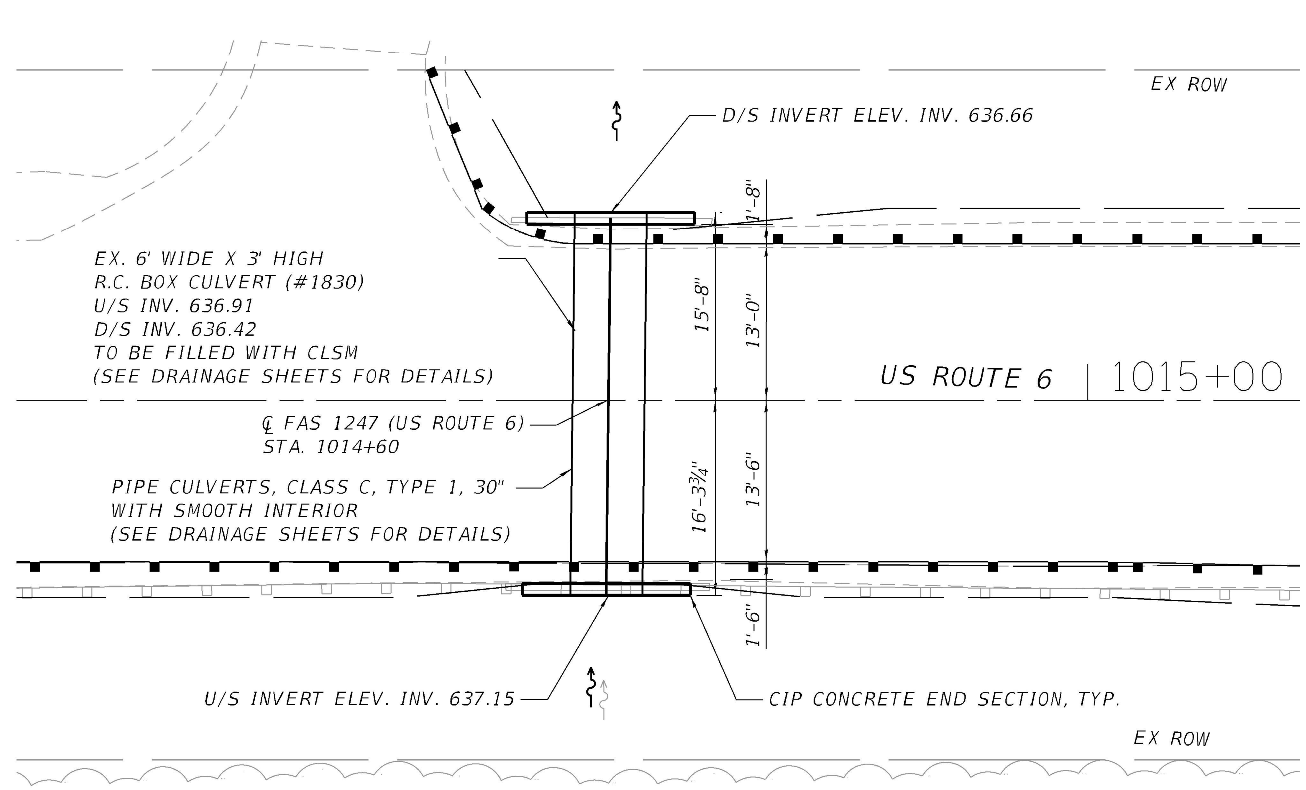
SHEET OF SHEETS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	40
		CONTRACT NO. 66A79		
	ILLINOIS FED. AID PROJECT			

1/24/2022 2:06:30 PM

BENCHMARK:
SET CHISELED X IN SE CONC
RR BRIDGE BEAM SEAT
ELEV: 644.99 (NAVD88)

EXISTING STRUCTURE:
EXISTING STRUCTURE IS A 6X3 BOX CULVERT
WITH HORIZONTAL CANTILEVER PERPENDICULAR
WINGWALLS.



PLAN

DESIGN SPECIFICATIONS

2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION

ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT MANUAL, 2017

DESIGN STRESSES

FIELD UNITS

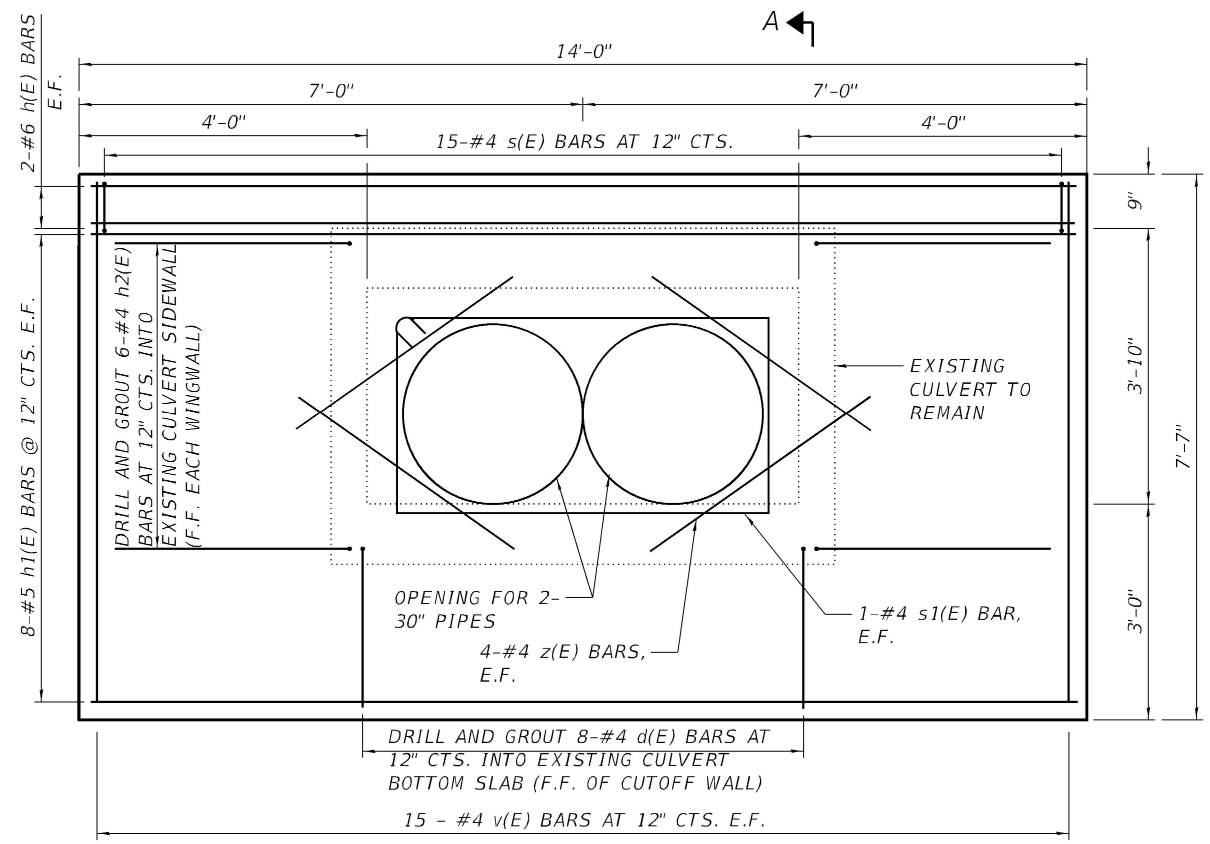
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

LOADING HL-93

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

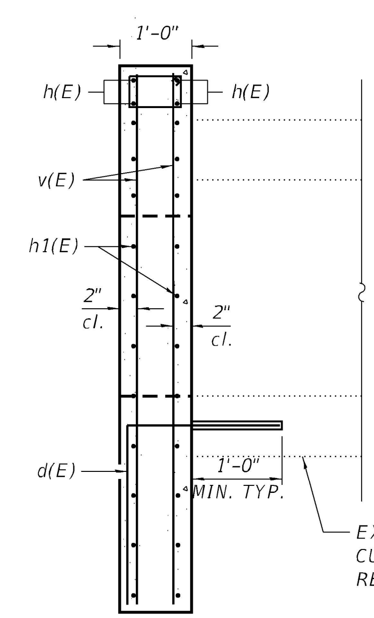
BILL OF MATERIAL
END SECTION ONLY

Bar	No.	Size	Length	Shape
h(E)	8	#6	13'-8"	
h1(E)	32	#5	13'-8"	
h2(E)	24	#4	5'-4"	
s(E)	30	#4	3'-3"	
s1(E)	4	#4	20'-1"	
v(E)	60	#4	7'-2"	
z(E)	16	#4	4'-6"	
D(E)	16	#4	4'-6"	
CONCRETE STRUCTURES			CU. YD.	7.1
REINFORCEMENT BARS, EPOXY COATED			POUND	1,209

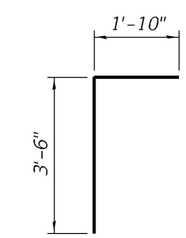


END SECTION ELEVATION VIEW

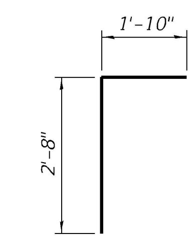
DOWNSTREAM END SHOWN ABOVE, USE THE SAME DETAIL FOR UPSTREAM END.



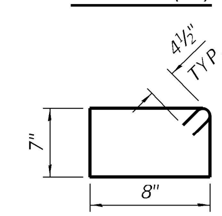
SECTION A-A



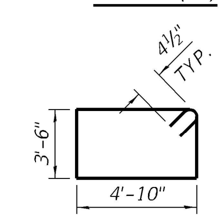
BAR h2(E)



BAR d(E)

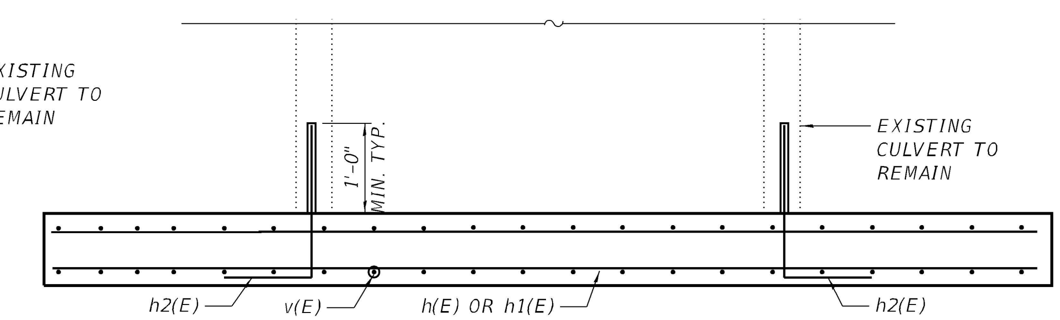


BAR s(E)



BAR s1(E)

NOTES:
1. CUT h1(E) AND v(E) BARS AS REQUIRED FOR THE PIPE OPENING.
2. PIPE OUTSIDE SURFACE WITHIN END SECTION SHALL BE CLEAN AND FREE OF LAITANCE WITH SURFACE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF 1/4".
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GRADE 60.
4. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
5. DRILL AND GROUT h2(E) AND d(E) BARS TO EXISTING CULVERT SIDEWALL AND BOTTOM SLAB.
6. CONTRACTOR SHALL VERIFY EXISTING BOX CULVERT DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION.



END SECTION PLAN VIEW

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME =	DESIGNED - PP	REVISED -
	CHECKED - JC	REVISED -
PLOT SCALE =	DRAWN - PP	REVISED -
PLOT DATE =	CHECKED - JC	REVISED -

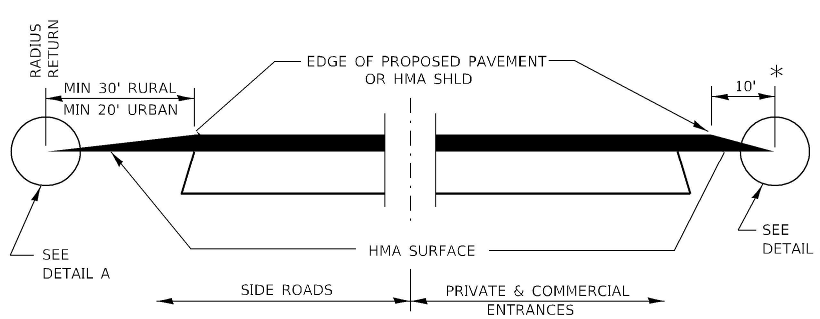
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CULVERT # 1830 END SECTION DETAIL

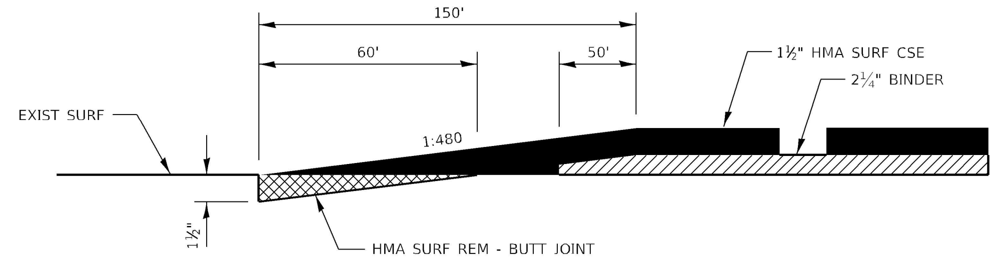
SHEET OF SHEETS

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	41
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

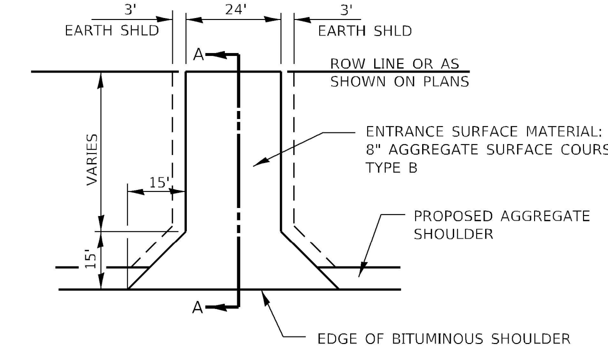
1/24/2022 2:06:38 PM

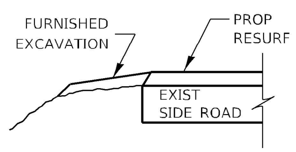


SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS



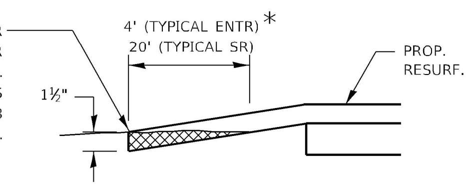
BUTT JOINT



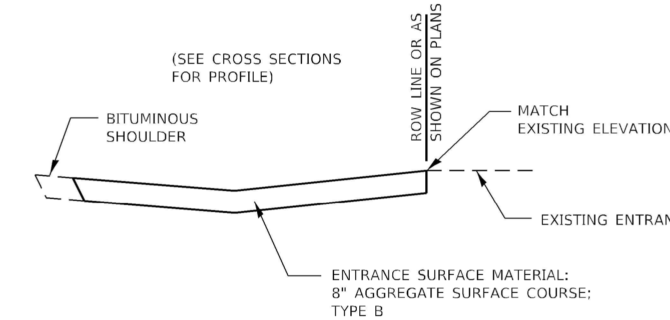


SECTION B-B

THE COST OF REMOVAL AT EXISTING HMA OR PCC LOCATIONS SHALL BE PAID FOR PER SQ YD BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.

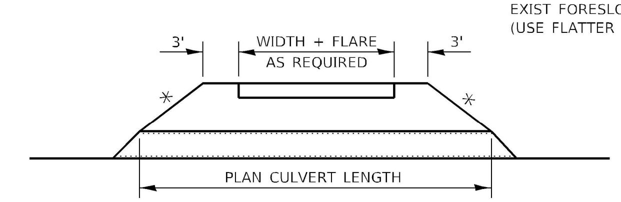


DETAIL A

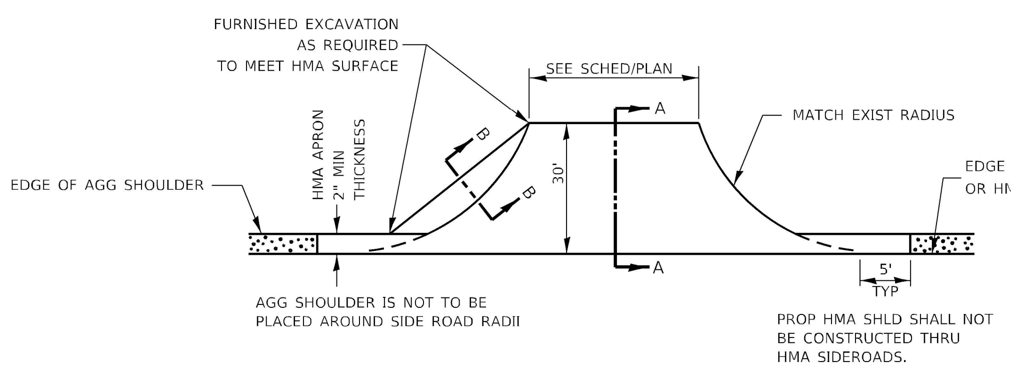


SECTION A-A

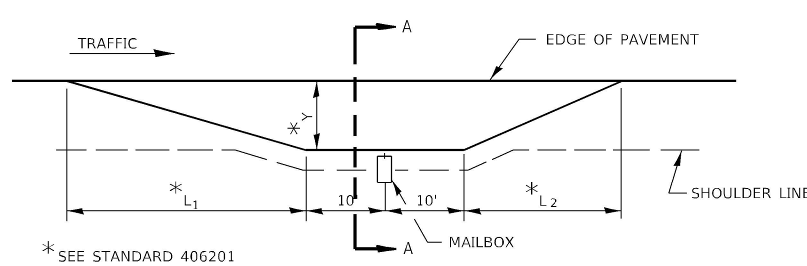
* USE 1:6 SLOPE OR MATCH EXIST FORESLOPE (USE FLATTER OF TWO.)

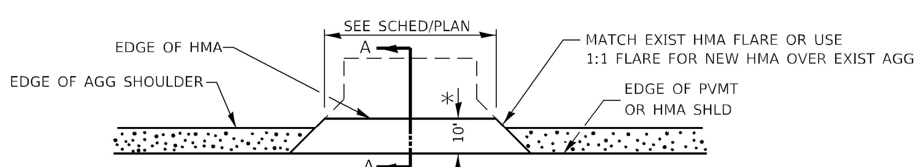


FIELD ENTRANCE DETAIL



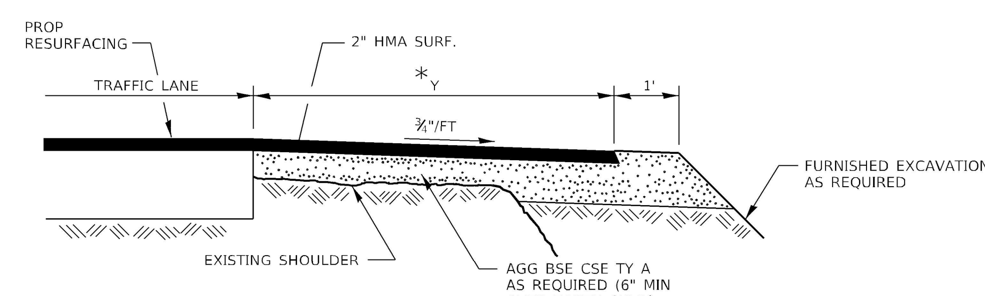
PLAN AT SIDE ROADS





PLAN AT PRIVATE & COMMERCIAL ENTRANCES

(DO NOT RESURFACE FIELD ENTRANCES)



SECTION A-A

* PROPOSED HMA RESURFACING AT PUBLIC EDUCATIONAL FACILITY ENTRANCES SHALL BE EXTENDED TO THE RIGHT-OF-WAY LIMITS.

RURAL MAILBOX TURNOUT DETAILS

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

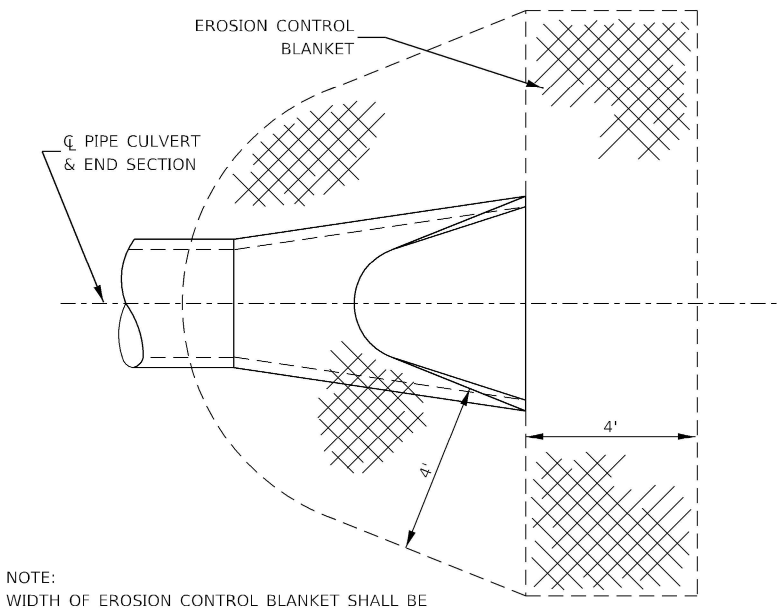
USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
IDOT DISTRICT 3 DETAILS

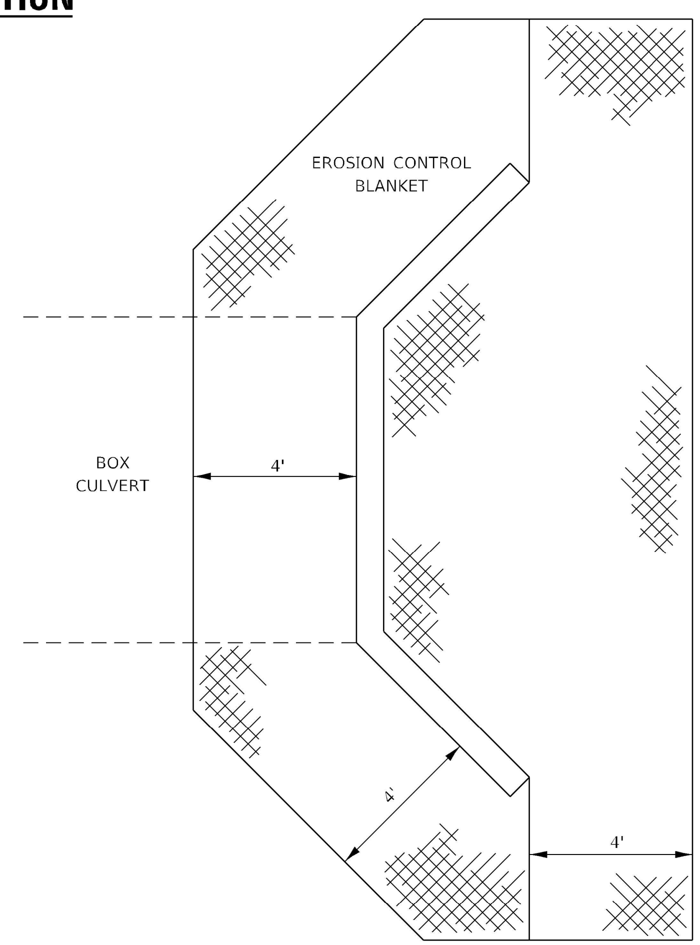
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	42
		CONTRACT NO. 66A79		
	ILLINOIS	FED. AID PROJECT		

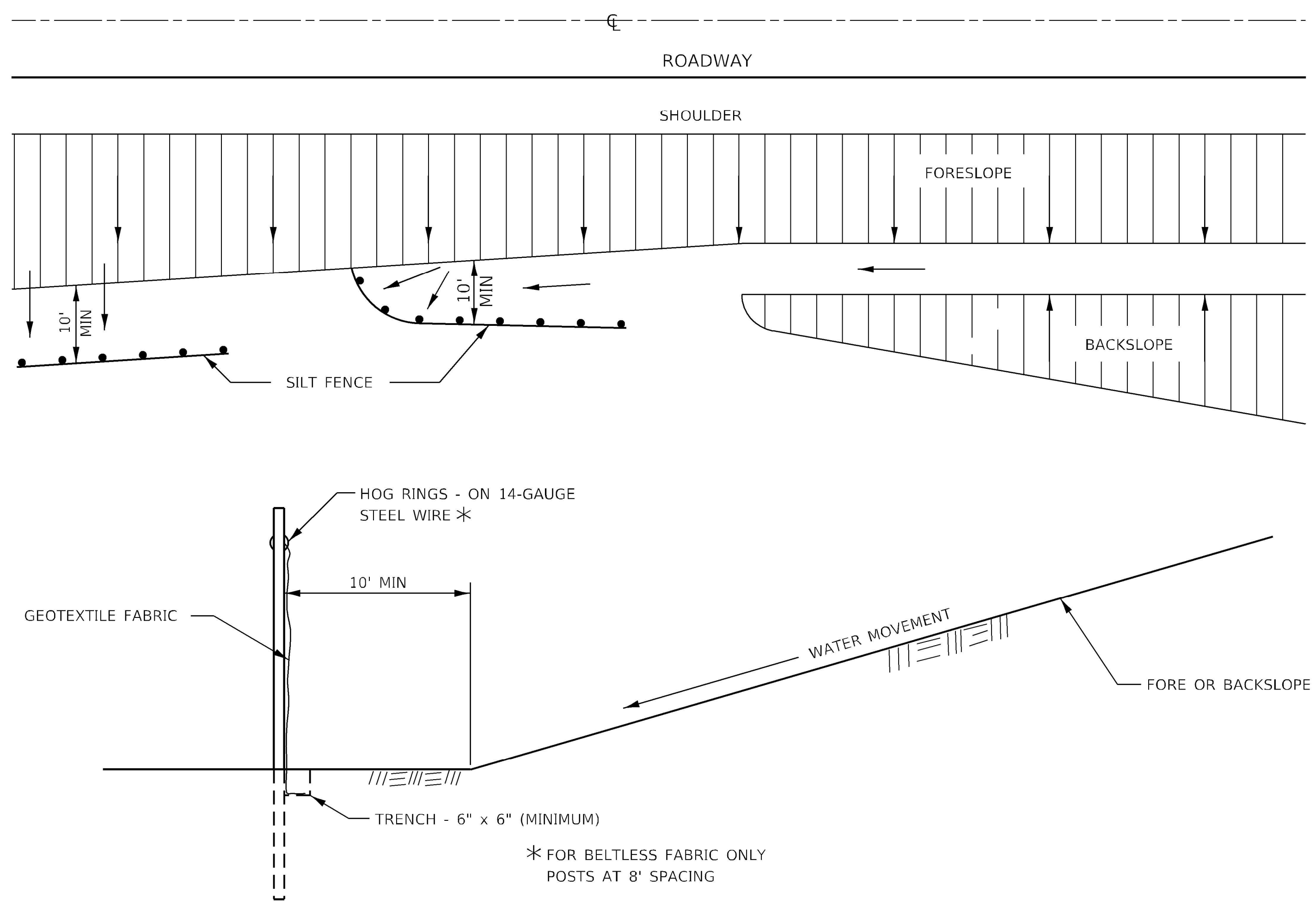


NOTE:
WIDTH OF EROSION CONTROL BLANKET SHALL BE MODIFIED AT NORTH SIDE OF CULVERTS 1831 AND 1832 SUCH THAT LIMITS ARE AT OR WITHIN EXISTING RIGHT-OF-WAY

251–2 DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION



251–3 EROSION CONTROL BLANKET AT BOX CULVERT END SECTIONS



DETAILS OF SILT FENCE

280–1 EROSION CONTROL DETAILS FOR SILT FENCE

MODEL: $MODELNAME$
FILE NAME: $FILE$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

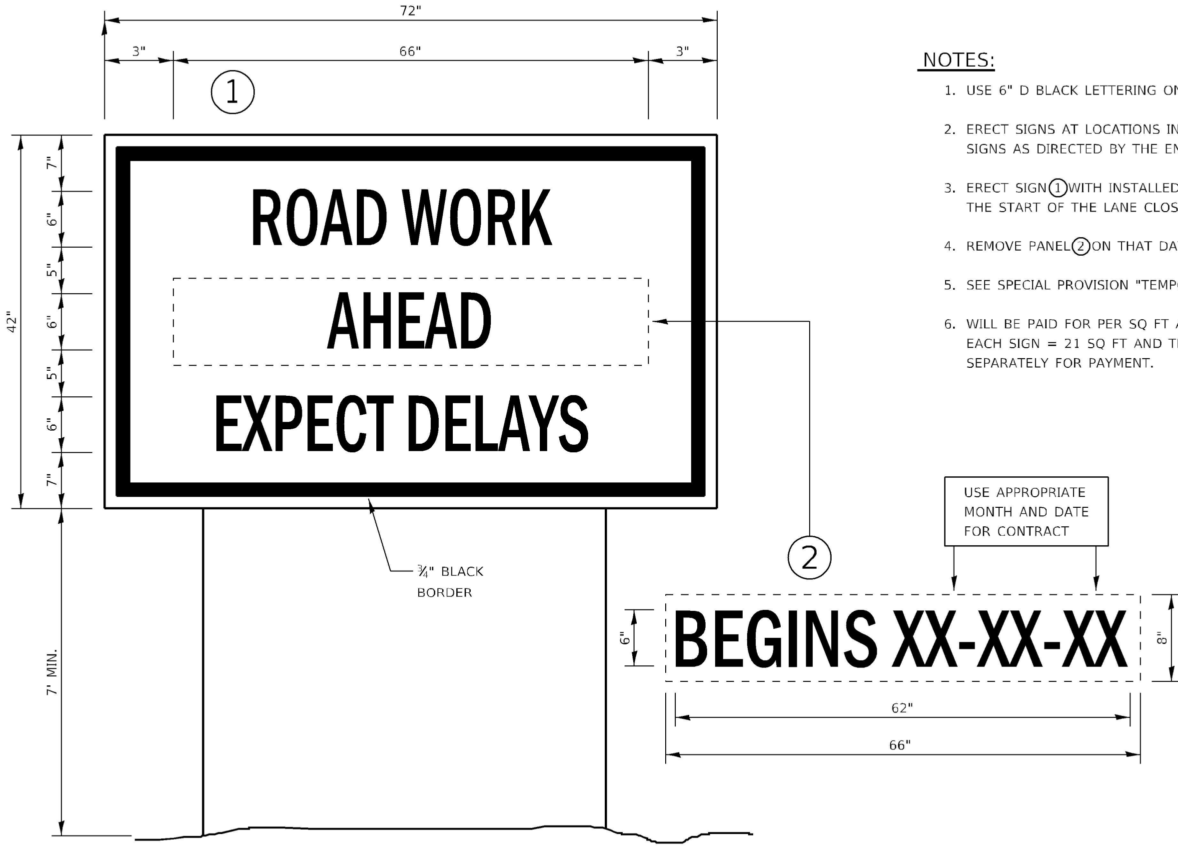
USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
IDOT DISTRICT 3 DETAILS

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

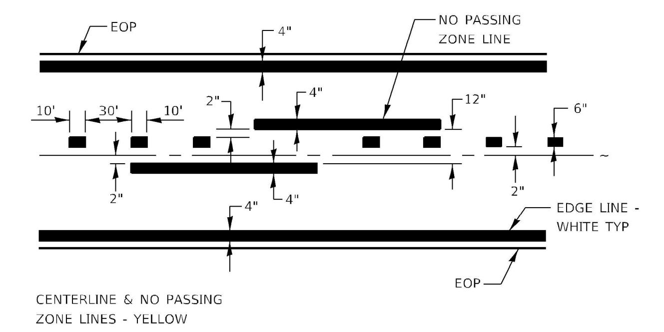
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	43
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		



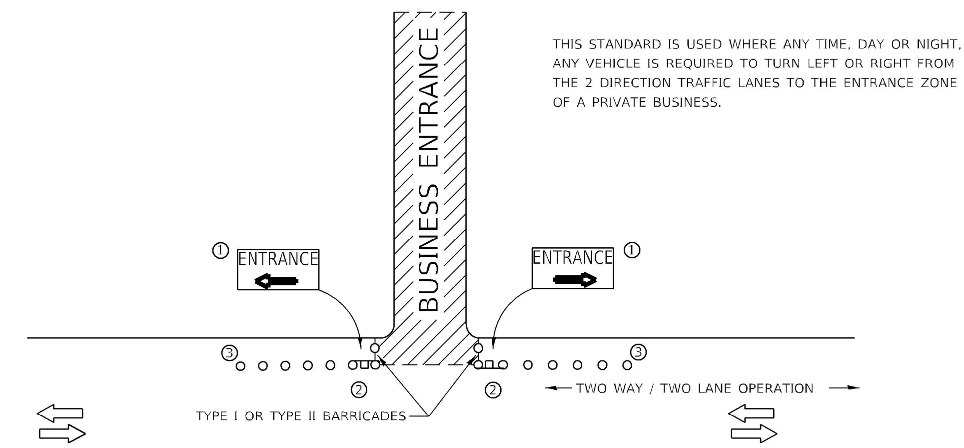
NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

TEMPORARY INFORMATION SIGNING



PAVEMENT MARKING



THIS STANDARD IS USED WHERE ANY TIME, DAY OR NIGHT, ANY VEHICLE IS REQUIRED TO TURN LEFT OR RIGHT FROM THE 2 DIRECTION TRAFFIC LANES TO THE ENTRANCE ZONE OF A PRIVATE BUSINESS.

SYMBOLS

BUSINESS ENTRANCE ZONE

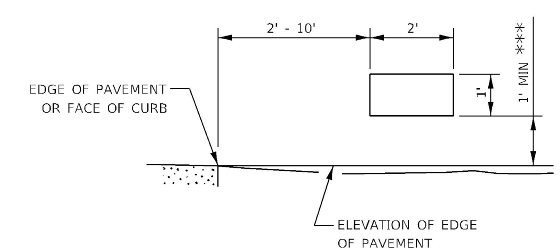
BARRICADE OR DRUM WITH FLASHING LIGHT

SIGN ON TEMPORARY SUPPORT

① REFER TO BUSINESS ENTRANCE SIGN TABLE FOR DIMENSIONS.

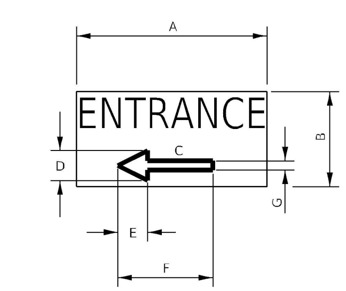
② SEE "SIGNS ON TEMPORARY SUPPORTS" DETAIL.

③ DRUMS



SIGNS ON TEMPORARY SUPPORTS

*** WHEN WORK OPERATIONS EXCEED FOUR DAYS, THIS DIMENSION SHALL BE 5' MIN IF LOCATED BEHIND OTHER DEVICES, THE HEIGHT SHALL BE SUFFICIENT TO BE SEEN BY MOTORISTS.



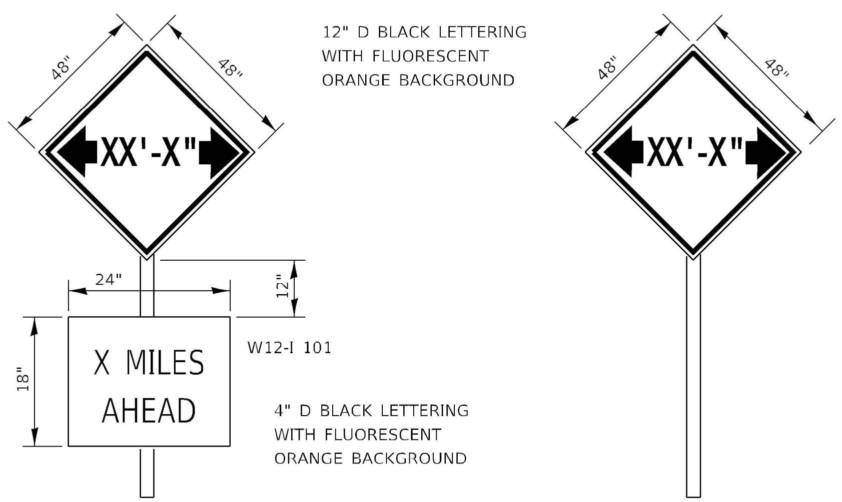
BUSINESS ENTRANCE SIGN

4" BLUE LETTERING NON-REFLECTIVE WITH WHITE REFLECTIVE BACKGROUND

SIGN SIZE	DIMENSIONS						
	A	B	C	D	E	F	G
24 X 12	24	12	8.25	4.75	3.75	12	2.25

SIGNS FOR BUSINESSES ABUTTING THE WORK ZONE, DELINEATING THE WAY THROUGH THE BARRICADES TO RESPECTIVE ENTRANCES.

BUSINESS ABUTTING WORK ZONE ENTRANCE SIGN



12" D BLACK LETTERING WITH FLUORESCENT ORANGE BACKGROUND

4" D BLACK LETTERING WITH FLUORESCENT ORANGE BACKGROUND

ADVANCE SIGNAGE TO BE POST MOUNTED AT THE INTERSECTION OF US 6 & US 34 AS WELL AS THE INTERSECTION OF US 6 & IL 78 WITH APPROPRIATE MILEAGE SUPPLEMENT SIGN. MILEAGE SUPPLEMENT SIGN SHALL BE UPDATED BY THE CONTRACTOR DEPENDENT ON WHICH CULVERT IS BEING CONSTRUCTED.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS

MODEL: $MODELNAME$
FILE NAME: $FILEL$

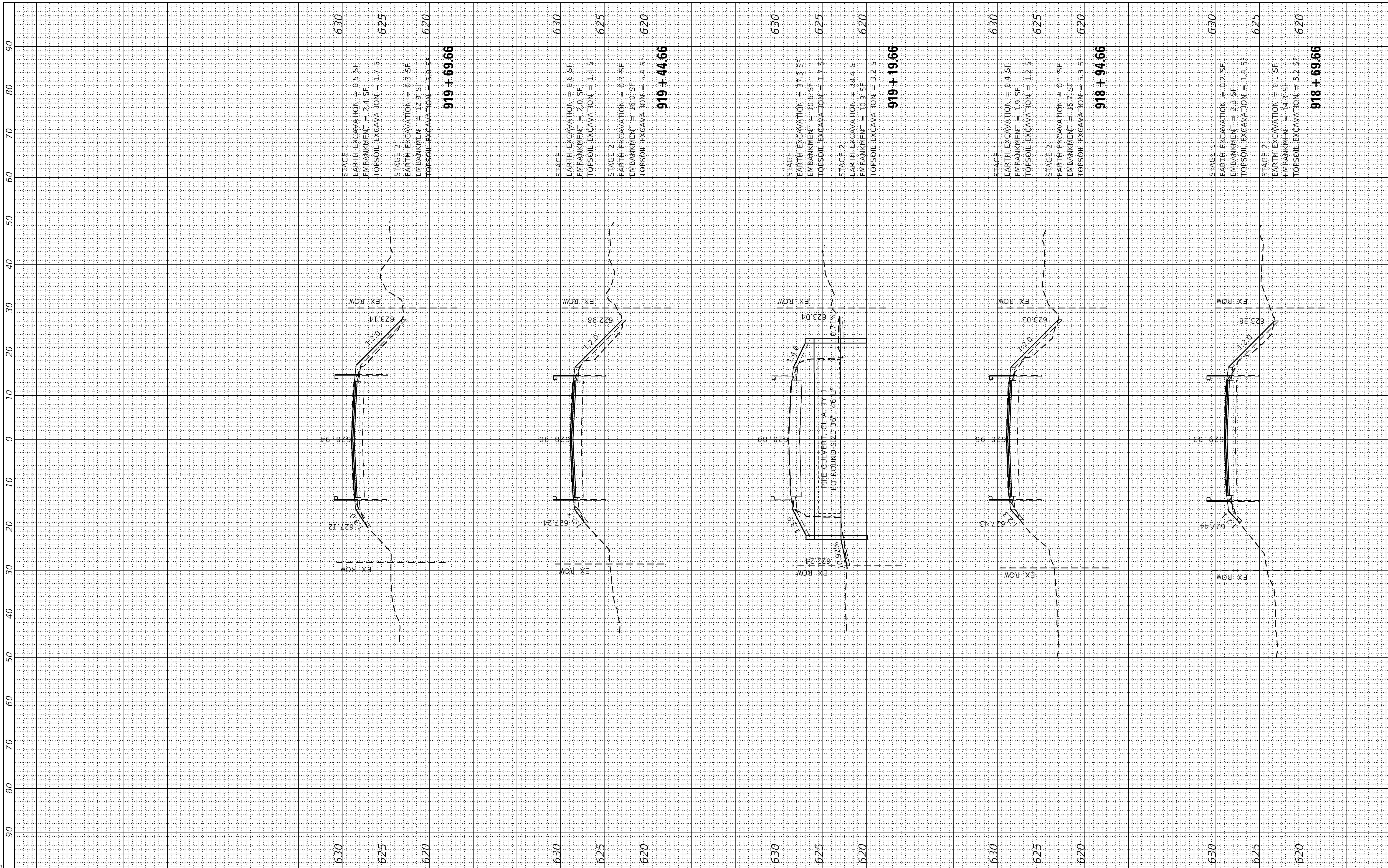
TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -
		DRAWN - PAS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
	PLOT DATE = 1/24/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
IDOT DISTRICT 3 DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	44
		CONTRACT NO. 66A79		
		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: $MODELNAME$
FILE NAME: $FILEL$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -	
	DRAWN - PAS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -	
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

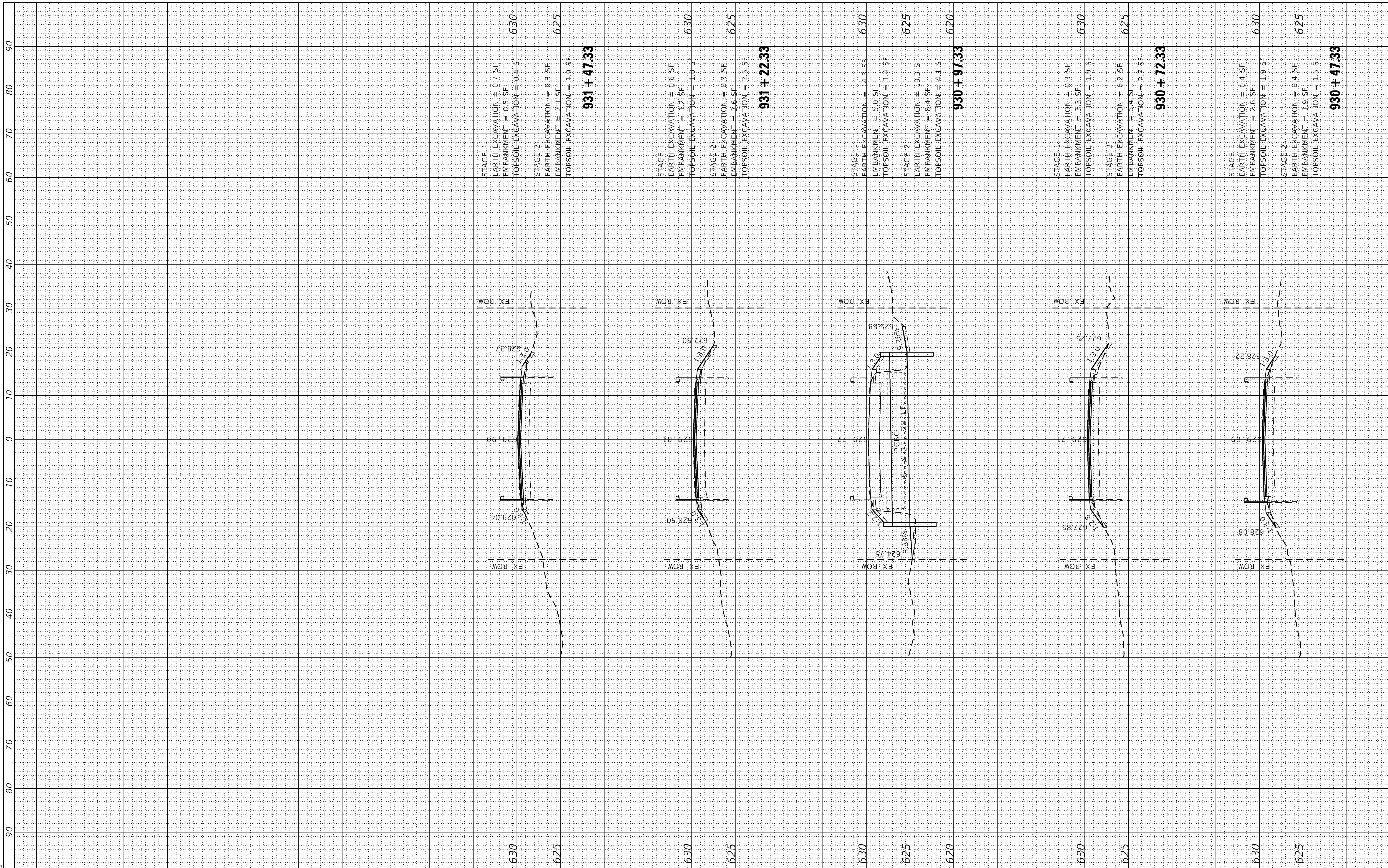
FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 1 OF 9 SHEETS | STA. 918+69.66 TO STA. 919+69.66

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	45

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT



TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

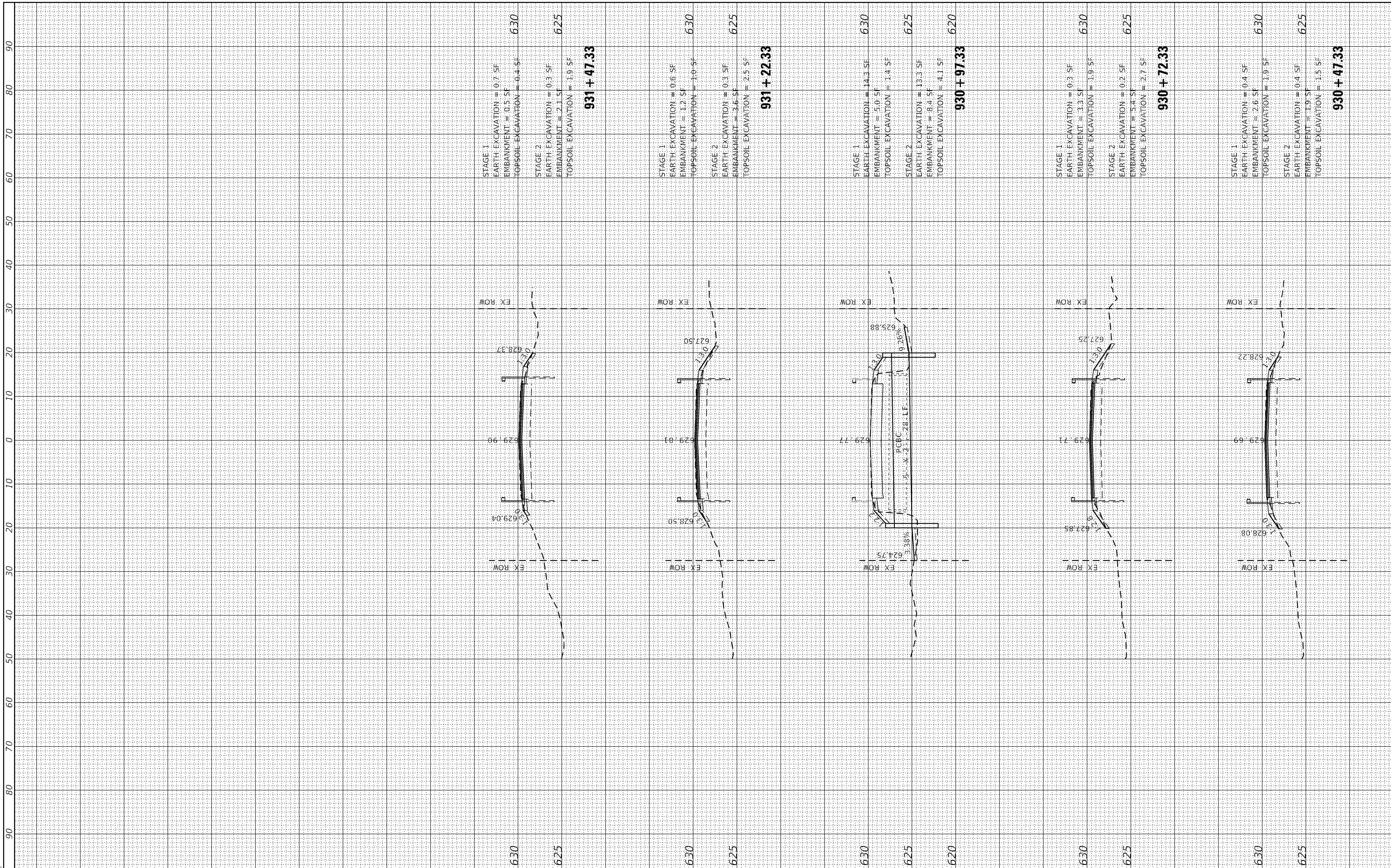
FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 2 OF 9 SHEETS | STA. 930+47.33 TO STA. 931+47.33

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	46

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT



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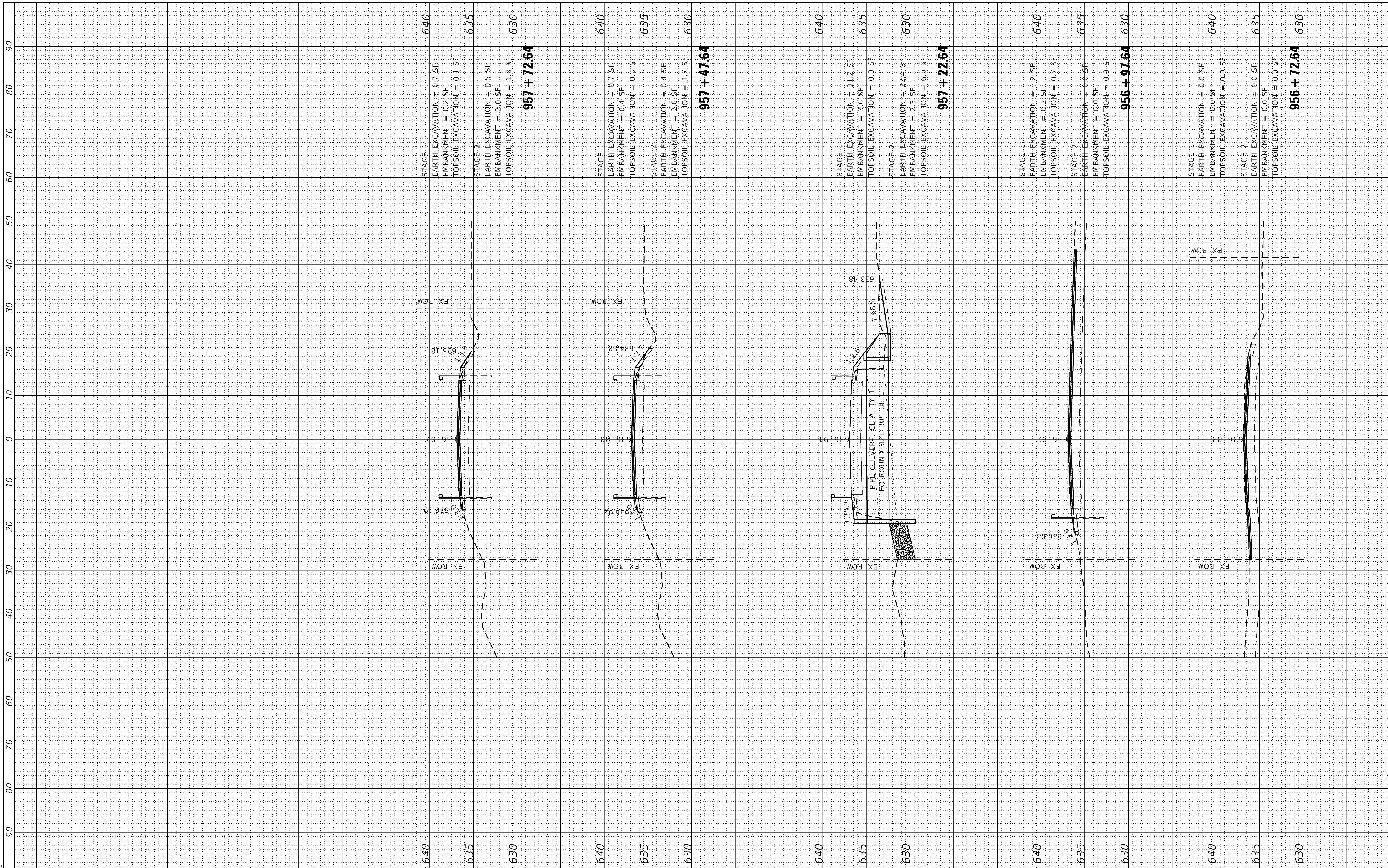
FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 2 OF 9 SHEETS | STA. 930+47.33 TO STA. 931+47.33

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	46
		CONTRACT NO. 66A79		
		ILLINOIS FED. AID PROJECT		

MODEL: $MODELNAME$
FILE NAME: $FILE$



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -
		DRAWN - PAS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

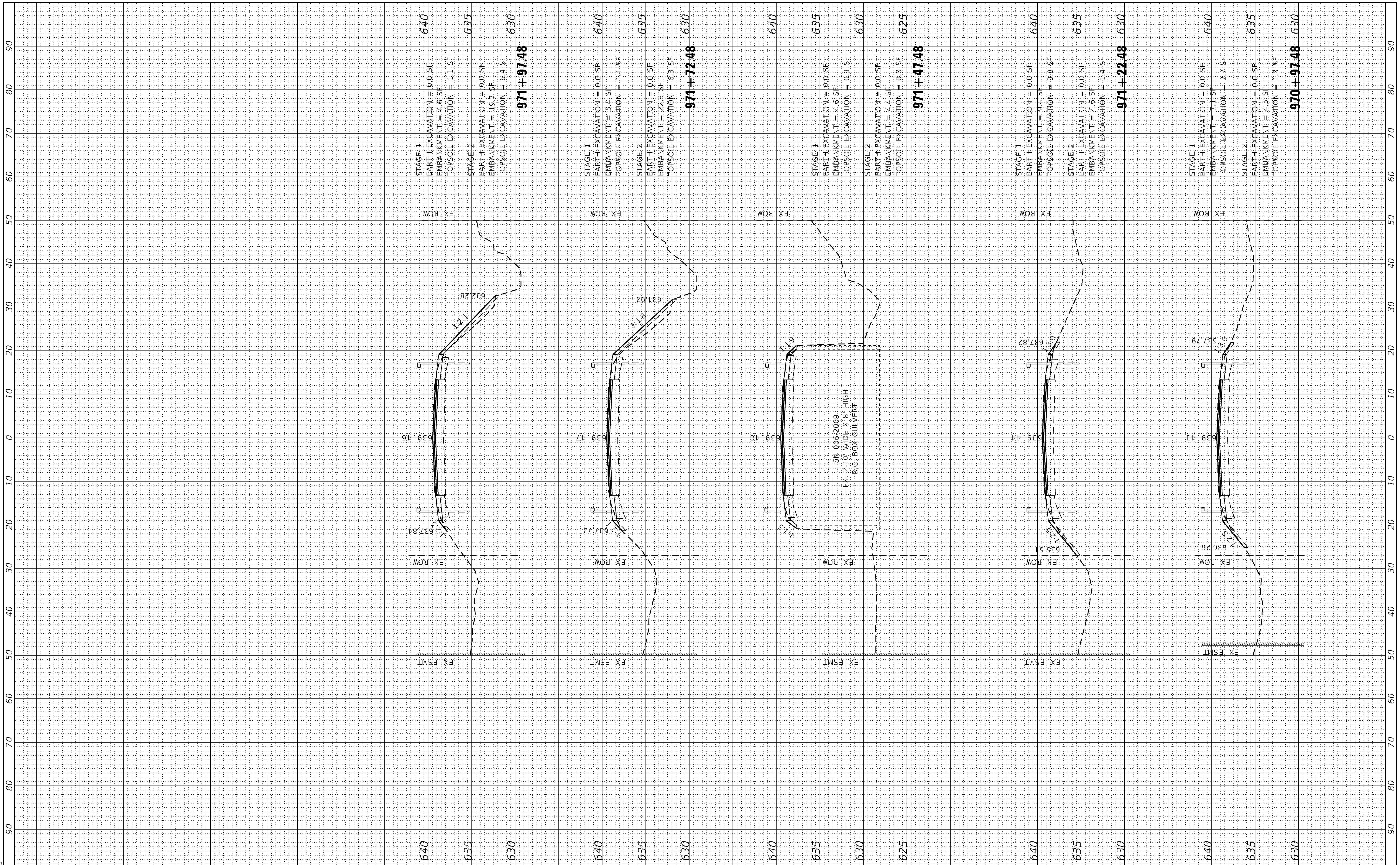
SCALE: H=10', V=5' | SHEET 4 OF 9 SHEETS | STA. 956+72.64 TO STA. 957+72.64

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	48

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT

MODEL: $MODELNAME$
FILE NAME: $FILE$



TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = default	DESIGNED - PKT	REVISED -
		DRAWN - PAS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
	PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

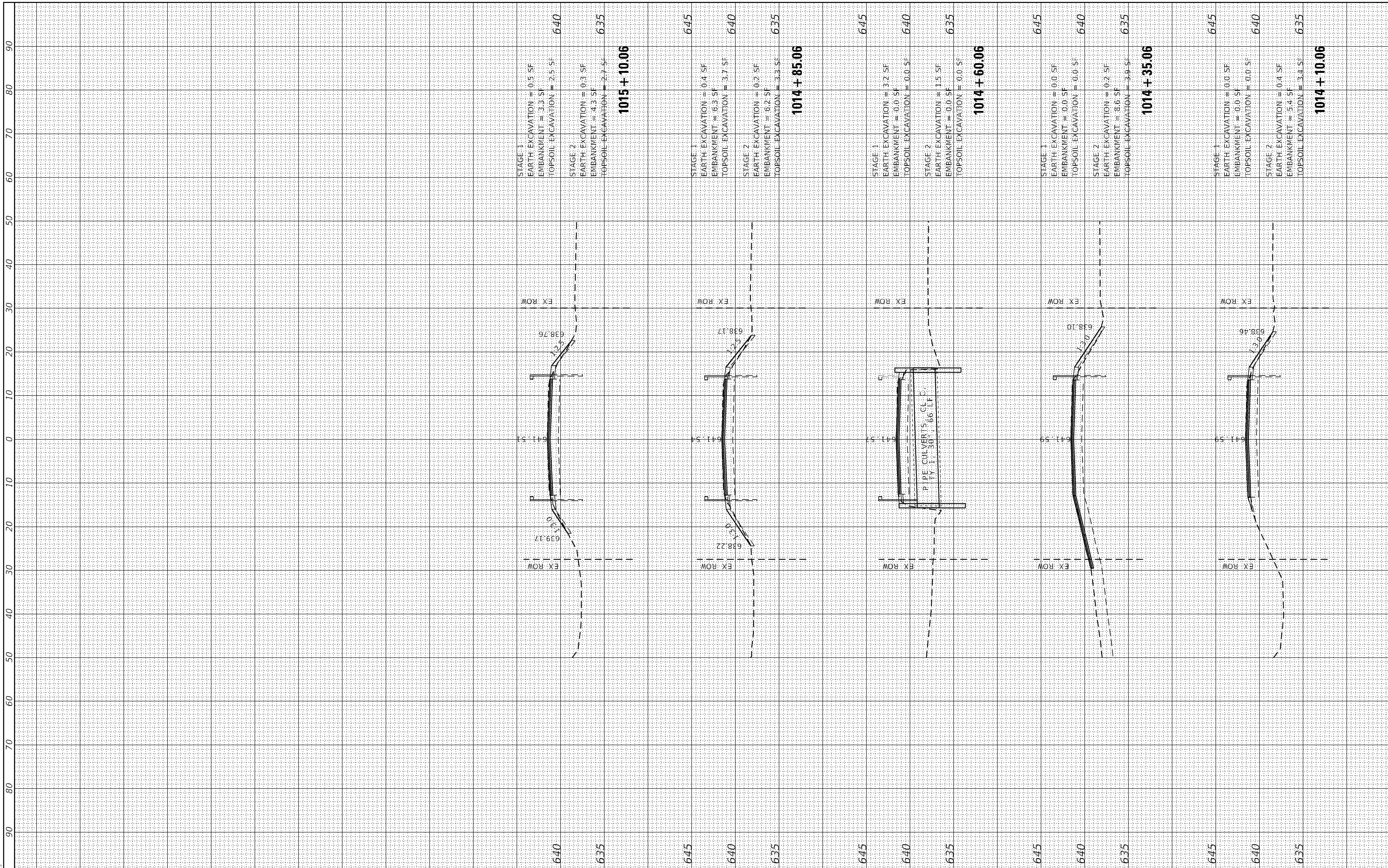
SCALE: H=10', V=5' | SHEET 5 OF 9 SHEETS | STA. 970+97.48 TO STA. 971+97.48

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	49
		CONTRACT NO. 66A79		
		ILLINOIS	FED. AID PROJECT	

MODEL: $MODELNAME$
FILE NAME: $FILEL$

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

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



MODEL: $MODELNAME$
FILE NAME: $FILEL$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

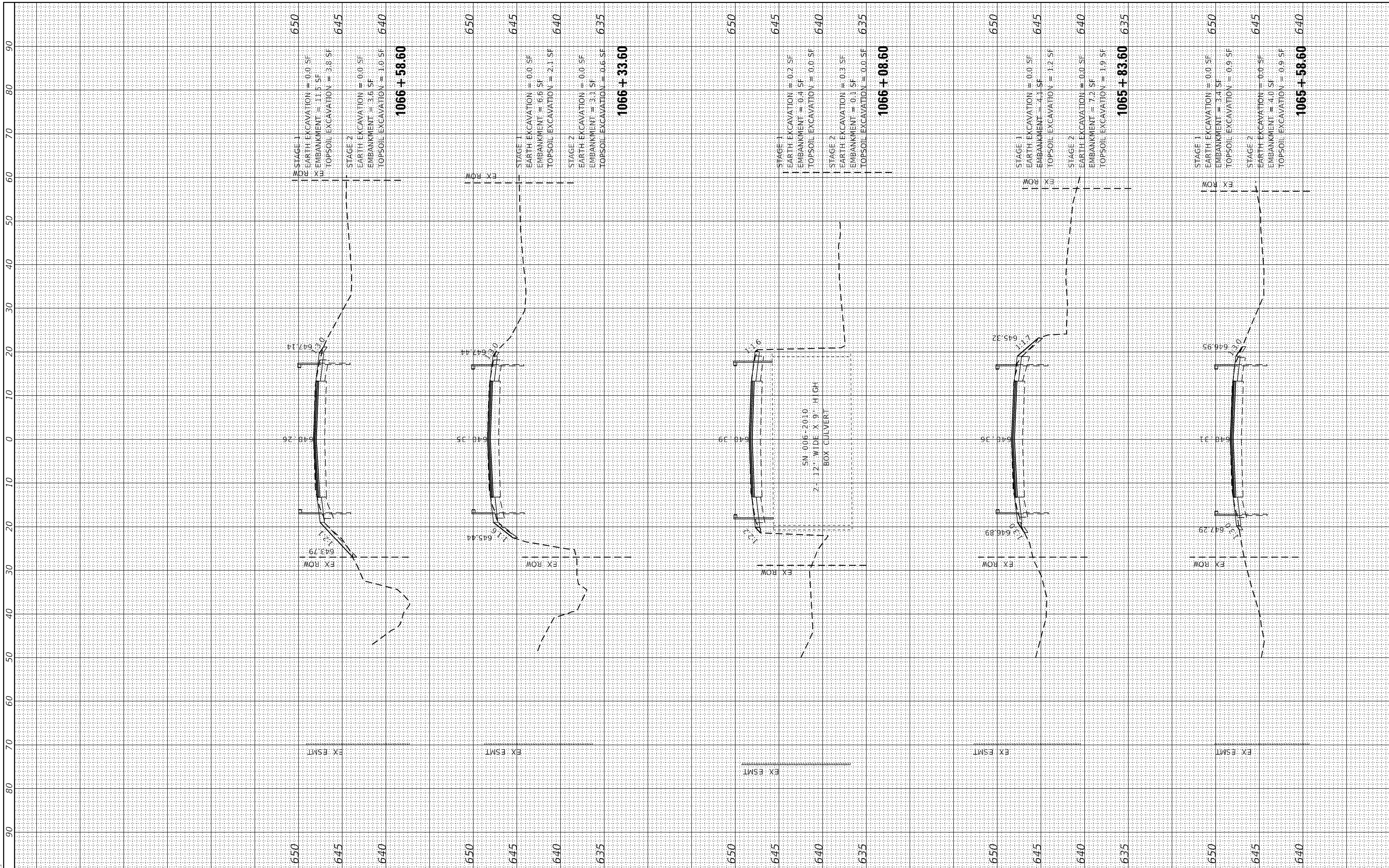
USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 6 OF 9 SHEETS | STA. 1014+10.06 TO STA. 1015+10.06

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	50
		CONTRACT NO. 66A79		
	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: $MODELNAME$
FILE NAME: $FILE$

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Chicago, Illinois 60606

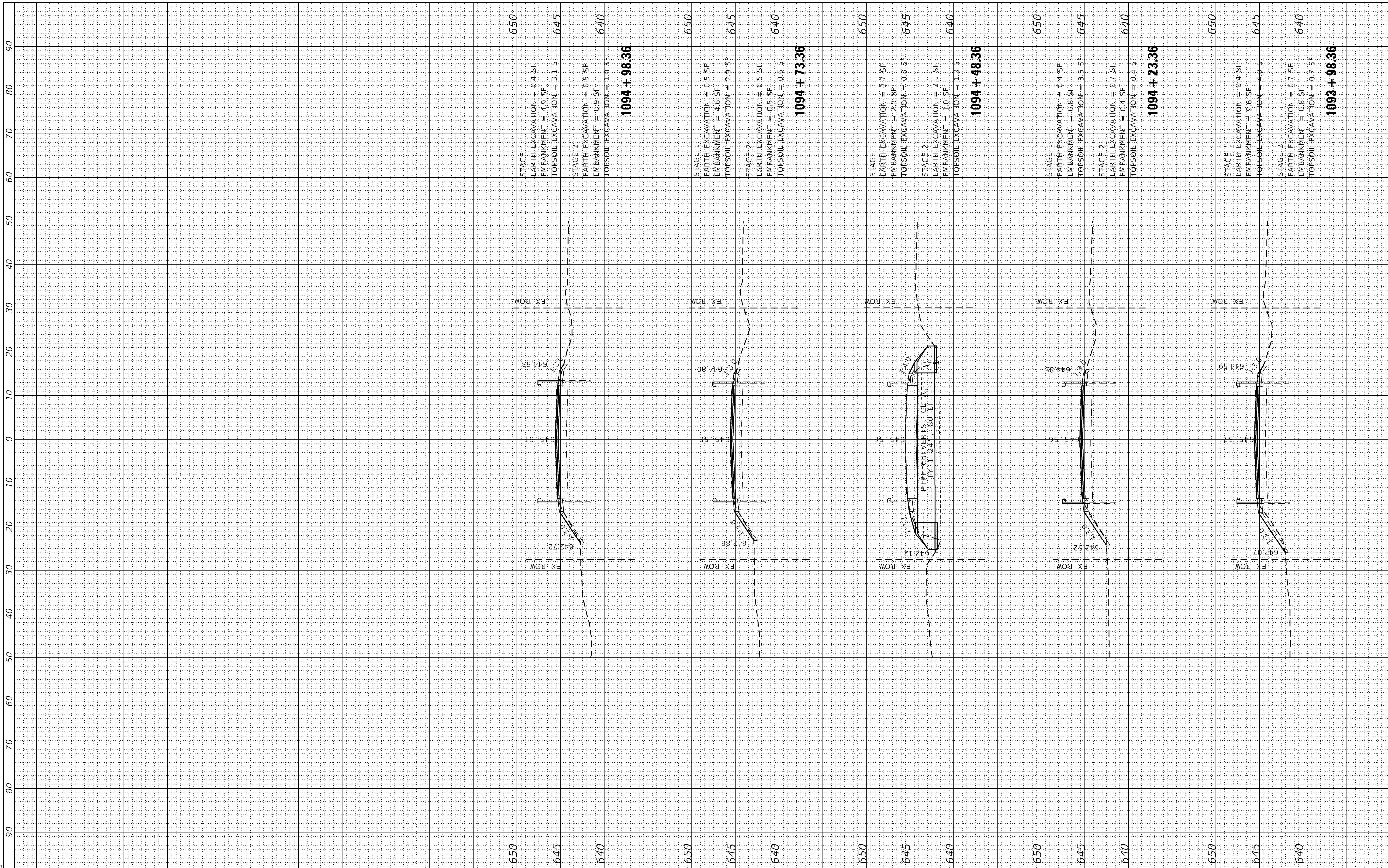
USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 7 OF 9 SHEETS | STA. 1065+58.60 TO STA. 1066+58.60

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	51
		CONTRACT NO. 66A79		
		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: $MODELNAME$
FILE NAME: $FILEL$

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -
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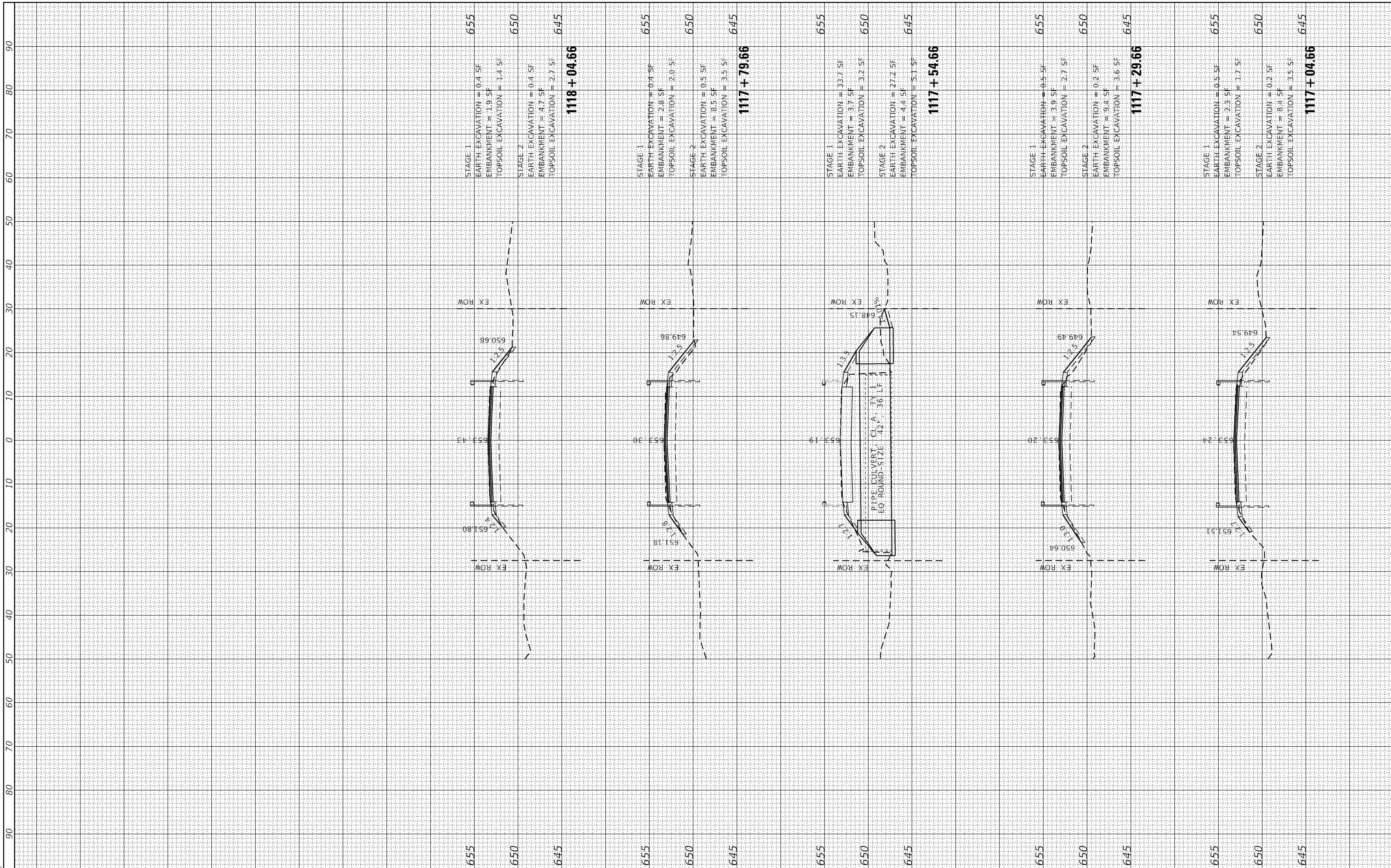
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 8 OF 9 SHEETS | STA. 1093+98.36 TO STA. 1094+98.36

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	52
		CONTRACT NO. 66A79		
		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: $MODELNAME$
FILE NAME: $FILE$

TranSmart
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Chicago, Illinois 60606

USER NAME = default	DESIGNED - PKT	REVISED -
	DRAWN - PAS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - KJC	REVISED -
PLOT DATE = 2/2/2022	DATE - 1/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAS ROUTE 1247 (US ROUTE 6)
CROSS SECTIONS

SCALE: H=10', V=5' | SHEET 9 OF 9 SHEETS | STA. 1117+04.66 TO STA. 1118+04.66

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1247	(5, 6, 7, 8) RS5	BUREAU	53	53

CONTRACT NO. 66A79

ILLINOIS | FED. AID PROJECT