

INDEX OF SHEETS, SEE SHEET NO. 2
LIST OF STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION of HIGHWAYS
Dept. of Transportation

OCT 15 2019

Region 3/District 4
RECEIVED
Local Roads

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	58	1
ILLINOIS CONTRACT NO. 89708				

PLANS FOR PROPOSED ILLINOIS SPECIAL BRIDGE PROGRAM

BOTTOM ROAD BRIDGE REPLACEMENT
COUNTY HIGHWAY 16 – FAS ROUTE 1254

SECTION 13-00025-00-BR

PROJECT NO. TF4I(864)

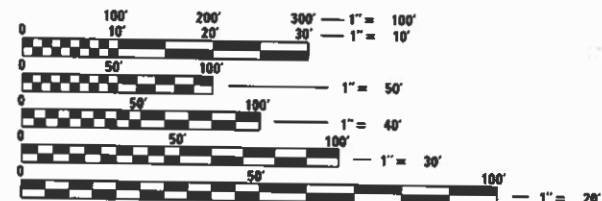
PUTNAM COUNTY

JOB NO. C-94-003-17

PROPOSED IMPROVEMENT:
THIS PROJECT CONSISTS OF THE REPLACEMENT OF THE EXISTING SINGLE SPAN PC CHANNEL BEAM STRUCTURE (S.N. 078-3002) ON THE EAST LEG OF BOTTOM ROAD WITH A TRIPLE 11'X6' CONCRETE BOX CULVERT (S.N. 078-3118) ON A NEW ALIGNMENT. THE EAST LEG OF BOTTOM ROAD WILL BE RELOCATED NORTH OF THE EXISTING ALIGNMENT TO ALIGN WITH THE WEST LEG OF BOTTOM ROAD. CONSTRUCTION ACTIVITIES CONSIST OF EXISTING STRUCTURE REMOVAL, CONCRETE BOX CULVERTS, CHANNEL RELOCATION, HMA PAVEMENT, GUARDRAIL, PAVEMENT MARKING, AND EARTHWORK.



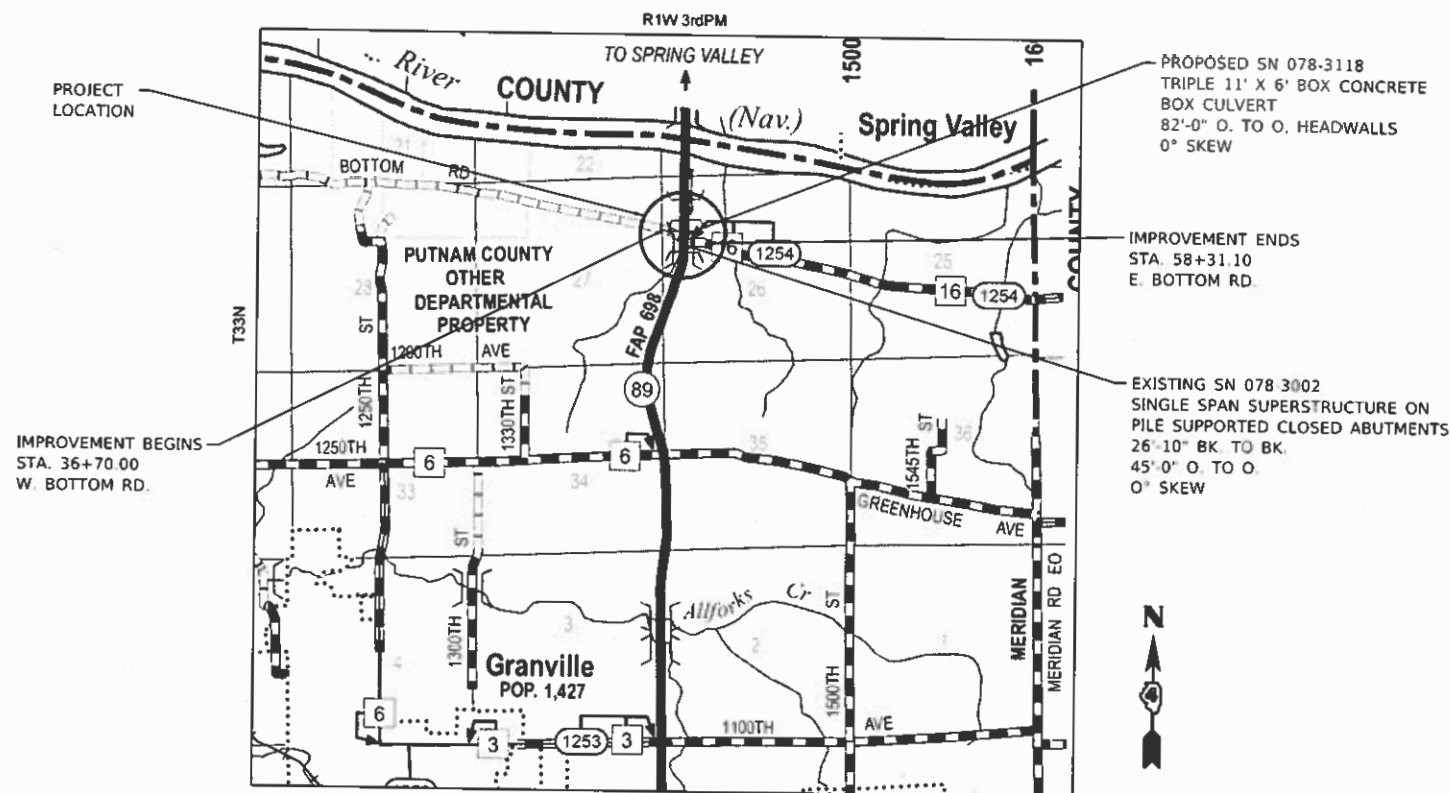
LOCATION OF SECTION INDICATED THUS: -



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

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

PROJECT ENGINEER GEORGE MERKLE, P.E.
PROJECT MANAGER RICK ANDERSON, P.E.



IMPROVEMENT BEGINS STA. 36+70.00 W. BOTTOM RD.

PROPOSED SN 078-3118 TRIPLE 11' X 6' BOX CONCRETE BOX CULVERT 82'-0" O. TO O. HEADWALLS 0° SKEW

IMPROVEMENT ENDS STA. 58+31.10 E. BOTTOM RD.

EXISTING SN 078 3002 SINGLE SPAN SUPERSTRUCTURE ON PILE SUPPORTED CLOSED ABUTMENTS 26'-10" BK. TO BK. 45'-0" O. TO O. 0° SKEW

LOCATION MAP

ROADWAY CLASSIFICATION: MINOR ARTERIAL
EAST BOTTOM ROAD OVER ILLINOIS RIVER TRIBUTARY
ADT 3150(2013) - 85% PV, 15% TRUCKS
DESIGN SPEED : 60 MPH
DESIGN POLICY : NEW CONSTRUCTION/RECONSTRUCTION

GROSS LENGTH = 2566.57 FT. = 0.486 MILES
NET LENGTH = E BOTTOM RD - 1028.34 FT = 0.195 MILES
= W BOTTOM RD - 330 FT = 0.062 MILES
= IL 89 - 1208.23 FT = 0.229 MILES

VARIANCES: -STOP BAR DISTANCE FROM TRAVELED WAY ON NB IL 89 AND WB BOTTOM RD

COMMITMENTS: SEE PAGE 2

MAURER-STUTZ
ENGINEERS SURVEYORS

3116 DRIES LN STE 100
PEORIA, ILLINOIS 61604
PH. (309) 693-7615
FAX (309) 693-7616
PROFESSIONAL DESIGN FIRM #184-005754

CATALOG NO. 035420-00D
CONTRACT NO. 89708

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *Patrick G. Sloan* 10-8-2019 (date)
Patrick G. Sloan
Putnam County Engineer

PASSED *Kenil A. Sarneth* 10-23-19 (date)
Kenil A. Sarneth
Region 3 Engineer

RELEASING FOR BID BASED ON LIMITED REVIEW

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

George B. Merkle
George B. Merkle, PE
PE No. 042917
Exp. Date 11/30/2019



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LIST OF STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF INCH & FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE
515001-04	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635001-02	DELINEATORS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY 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
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R. 21-9	DEVICES FOR CONTROL OF TRAFFIC

GENERAL NOTES

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2020 SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDEGRADED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE SUMMARY OF QUANTITIES HAS BEEN PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR IS ALERTED TO THE FACT THAT THESE NUMBERS ARE ESTIMATES AND IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNER WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION WILL BE RELOCATED AS DIRECTED BY THE ENGINEER OR OWNER. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED. SIGN REMOVAL, STORAGE AND RELOCATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED.

EROSION CONTROL IS A REQUIREMENT OF THIS PROJECT. ANY FINES OR PENALTIES LEVIED AGAINST THIS PROJECT FOR NONCOMPLIANCE WILL BE BORNE SOLELY BY THE CONTRACTOR.

PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, AND OTHER EROSION CONTROL ITEMS SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AS NEEDED.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Mixture Uses(s):	Surface Course	Binder Course/ Base Course/ Shoulders
AC/PG:	PG 64-22	PG 64-22
Design Air Voids:	4% @ N=50	4% @ N=50
Mixture Composition: (gradation Mixture)	IL-9.5	IL-9.5
Friction Aggregate:	Mixture D	N/A
Quality Management Program:	QCQA	QCQA

NOTE:

- Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.
- For design purposes, mixture weight for all mixes is determined to be 112.0 lbs/sqyd/in, unless otherwise notes.
- Sublot sizes for PFP and QCP mixes will be 1000 tons, unless otherwise agreed to by the Engineer and paving contractor.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) APPLICATION RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	.08 LB/SQ FT
EXISTING PAVEMENT	.08 LB/SQ FT
FOG COAT (BETWEEN LIFTS)	.08 LB/SQ FT

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED

PLAN ELEVATIONS

ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON N.A.V.D. 88.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

COMMITMENTS

- TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.
- AN UPDATED BRIDGE ASSESSMENT SHALL BE CONDUCTED NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY FOR THE PRESENCE OF BATS.
- TREE REPLACEMENT PLAN: 40 BALLED AND BURLAPPED TREES WILL BE PLANTED TO FOLLOW IDOT'S POLICY FOR REPLACEMENT OF TREES. ALL BUT THE OAK TREES WILL BE PLANTED AT THE DIRECTION OF THE PUTNAM COUNTY CONSERVATION DISTRICT AT THEIR CONSERVATION AREA ON MCNABB ROAD. THE OAK TREES WILL BE PLANTED AT THE DIRECTION OF THE PUTNAM COUNTY ENGINEER NORTHEAST OF THE EMBANKMENT AND SEEP FIELD (SEE SUMMARY FOR PAY ITEM).
- THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT 4 TRAFFIC OPERATIONS ENGINEER (309-671-9466) PRIOR TO PERFORMING ANY PAVEMENT MARKING OPERATIONS.

FILE NAME: S:\237\15910\01 (Bottom Road Phase II Design)\CAD\00 Sheets\0489708-ht-gen notes.dgn

	USER NAME = willis	DESIGNED - BMW/JDS	REVISED -	PUTNAM COUNTY HIGHWAY DEPARTMENT	BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT GENERAL NOTES	F.A.S. RTE. = 1254	SECTION = 13-00025-00-BR	COUNTY = PUTNAM	TOTAL SHEETS = 56	SHEET NO. = 2		
	PLOT SCALE = 2,000' / 1" =	CHECKED - GBM	REVISED -			SCALE:	SHEET OF	SHEET STA.	TO STA.	CONTRACT NO. 89708		
	PLOT DATE = 10/4/2019	DATE - 04/05/2019	REVISED -									

ITEM CODE	ITEM	UNIT	CONSTR. CODE	
			BRIDGE REPLCMNT 0010	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT		16
20100500	TREE REMOVAL, ACRES	ACRE		0.3
20200100	EARTH EXCAVATION	CU YD		1925
20300100	CHANNEL EXCAVATION	CU YD		2625
20400800	FURNISHED EXCAVATION	CU YD		5795
20700220	POROUS GRANULAR EMBANKMENT	CU YD		249
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD		2382
* 25000300	SEEDING, CLASS 3	ACRE		1.75
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND		155
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND		155
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND		155
* 25100115	MULCH, METHOD 2	ACRE		1.50
* 25100630	EROSION CONTROL BLANKET	SQ YD		1505
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND		516
28000305	TEMPORARY DITCH CHECKS	FOOT		180
28000400	PERIMETER EROSION BARRIER	FOOT		1460
28100109	STONE RIPRAP, CLASS A5	SQ YD		293
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD		9
28200200	FILTER FABRIC	SQ YD		2726
28400100	GABIONS	CU YD		42
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD		2407
30300104	AGGREGATE SUBGRADE IMPROVEMENT 4"	SQ YD		404
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD		878
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD		3948
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD		2249
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD		829
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON		28

* SPECIALTY ITEMS

ITEM CODE	ITEM	UNIT	CONSTR. CODE	
			BRIDGE REPLCMNT 0010	TOTAL QUANTITY
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND		8881
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND		4976
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD		25
40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON		199
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON		491
44000100	PAVEMENT REMOVAL	SQ YD		2943
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT		747
44004250	PAVED SHOULDER REMOVAL	SQ YD		1616
48101200	AGGREGATE SHOULDERS, TYPE B	TON		161
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD		2267
50100100	REMOVAL OF EXISTING STRUCTURES	EACH		1
50105220	PIPE CULVERT REMOVAL	FOOT		61
50200100	STRUCTURE EXCAVATION	CU YD		1480
50300225	CONCRETE STRUCTURES	CUYD		7.7
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		54990
51500100	NAME PLATES	EACH		1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT		82
54003000	CONCRETE BOX CULVERTS	CU YD		294.5
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD		353
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH		1
60108300	PIPE UNDERDRAINS 8" (SPECIAL)	FOOT		54
60108308	PIPE UNDERDRAINS, TYPE 1, PERFORATED CORRUGATED STEEL PIPE 8"	FOOT		256
60500060	REMOVING INLETS	EACH		2
60600095	CLASS SI CONCRETE (OUTLET)	CUYD		6
60602800	CONCRETE GUTTER, TYPE B	FOOT		165
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT		969
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT		82

* SPECIALTY ITEMS

ITEM CODE	ITEM	UNIT	CONSTR. CODE	
			BRIDGE REPLCMNT 0010	TOTAL QUANTITY
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH		2
63200310	GUARDRAIL REMOVAL	FOOT		494
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH		3
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD		60
* 66900530	SOIL DISPOSAL ANALYSIS	EACH		1
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM		1
* 66901006	REGULATED SUBSTANCE MONITORING	CAL DA		2
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM		1
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO		9
67100100	MOBILIZATION	L SUM		1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT		2120
70400100	TEMPORARY CONCRETE BARRIER	FOOT		255
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH		2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH		2
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT		219
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT		6646
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT		507
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT		53
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT		62
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH		4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH		22
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH		4
* A2005032	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 6' HEIGHT, CLUMP FORM, BALLED AND	EACH		6
* A2006568	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH		20
* B2001164	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH		7
* B2001964	TREE, CRATAEGUS PHAENOPYRUM (WASHINGTON HAWTHORN), 5' HEIGHT, CLUMP FORM, BALLED AND	EACH		7
X0100005	SURCHARGE	SQ YD		2887

* SPECIALTY ITEMS

ITEM CODE	ITEM	UNIT	CONSTR. CODE	
			BRIDGE REPLCMNT 0010	TOTAL QUANTITY
X0322584	REVTMENT MAT REMOVAL	SQ YD		293
X0323265	REMOVE EXISTING RIPRAP	SQ YD		295
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT		7767
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD		353
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH		3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM		1
* X7830068	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	SQ FT		710
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT		6646
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT		507
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT		53
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT		62
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON		118
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM		1
Z0013798	CONSTRUCTION LAYOUT	L SUM		1
Z0056100	SAND DRAINAGE BLANKET	CUYD		419
Z0065100	SETTLEMENT PLATFORMS	EACH		2
Z0076600	TRAINEES	HOUR		1,000
Z0076604	TRAINING TPG	HOUR		1,000

* SPECIALTY ITEMS

FILE NAME: S:\237\2015\237151010.01 Bottom Road Phase II Design\CAD\000 Sheets\0489708-shr-summary.dgn



USER NAME = wlewis
 PLOT SCALE = 2.0000 "/>

DESIGNED - BMW/JDS
 DRAWN - BMW/CAD/WLL
 CHECKED - CBM
 DATE - 04/05/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

PUTNAM COUNTY
HIGHWAY DEPARTMENT

BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	3
CONTRACT NO. 89708				

X7830076 GROOVING FOR RECESSED PAVEMENT MARKING 9"					
LOCATION				FOOT	REMARKS
87+44.92	TO	88+53.88	PUPPY WHITE	35.34	
86+29.75	TO	87+44.92	SINGLE WHITE	115.16	
82+07.22	TO	83+87.22	PUPPY WHITE	60.01	
83+87.22	TO	85+06.29	SINGLE WHITE	119.10	
50+52.30	TO	51+77.00	SINGLE WHITE	124.70	
51+77.00	TO	53+32.00	PUPPY WHITE	52.03	
TOTAL				506.35	

X7830078 GROOVING FOR RECESSED PAVEMENT MARKING 13"					
LOCATION				FOOT	REMARKS
86+17.96	TO	85+76.30	ISLAND WHITE	46.73	
87+44.92	TO	88+53.88	GORE YELLOW	5.98	
TOTAL				52.71	

X7830090 GROOVING FOR RECESSED PAVEMENT MARKING 25"					
LOCATION				FOOT	REMARKS
39+60.00			STOP WHITE	29.95	
51+52.00			STOP WHITE	31.15	
TOTAL				61.10	

Z0001002 GUARDRAIL AGGREGATE EROSION CONTROL					
LOCATION				TON	REMARKS
83+00.00	TO	50+89.71	LT	47.00	8" DEPTH
50+89.71	TO	53+16.84	LT	18.23	6" DEPTH
86+85.81	TO	50+91.75	LT/RT	24.40	8" DEPTH
50+91.18	TO	51+90.64	RT	28.11	6" DEPTH
TOTAL				117.74	

Z0056100 SAND DRAINAGE BLANKET					
LOCATION				CU YD	REMARKS
52+00.00	TO	54+50.00		418.04	12" DEEP
TOTAL				418.04	

Z0065100 SETTLEMENT PLATFORMS					
LOCATION				EACH	REMARKS
52+25.00		10.00	LT	1.00	PR E BOTTOM RD
54+00.00		10.00	RT	1.00	PR E BOTTOM RD
TOTAL				2.00	

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
WEST BOTTOM ROAD	CU YD	CU YD	CU YD	CU YD	CU YD
STA. 37+00.00 TO STA. 38+70.73	23.13		17.35	99.14	-81.79
ILLINOIS RIVER TRIBUTARY					
STA. 11+15.00 TO STA. 16+25.23		2621.94	1966.45	1590.16	376.29
PROPOSED E. BOTTOM ROAD					
STA. 50+97.58 TO STA. 58+31.10	1900.76		1425.57	7514.88	-6089.31
TOTAL	1923.89	2621.94	3409.37	9204.18	-5794.81

EARTHWORK SUMMARY			
20200100	EARTH EXCAVATION	1925	CU YD
20300100	CHANNEL EXCAVATION	2625	CU YD
20400800	FURNISH EXCAVATION	5795	CU YD

LOCATION	TOPSOIL EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	TOPSOIL PLACEMENT	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-)
WEST BOTTOM ROAD	CU YD	CU YD	CU YD	CU YD
STA. 37+00.00 TO STA. 38+70.73	0.00	0.00	12.34	-12.34
ILLINOIS RIVER TRIBUTARY				
STA. 11+15.00 TO STA. 16+25.23	0.00	0.00	46.00	-46.00
PROPOSED E. BOTTOM ROAD				
STA. 50+97.58 TO STA. 51+38.10	2381.63	1786.22	744.41	1041.81
TOTAL	2381.63	1786.22	802.75	983.47

TOPSOIL SUMMARY			
21101505	TOPSOIL EXCAVATION & PLACEMENT	2382	CU YD

FILE NAME: S:\237\2015\23715010\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-ht-schedule.dgn



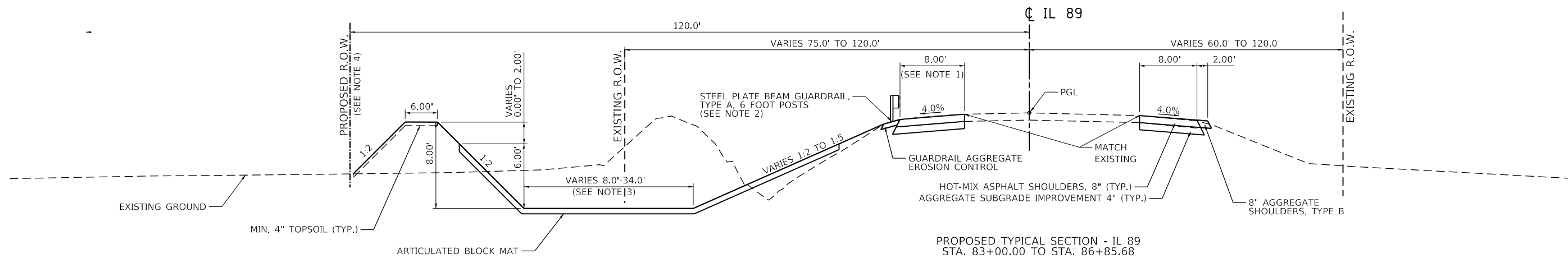
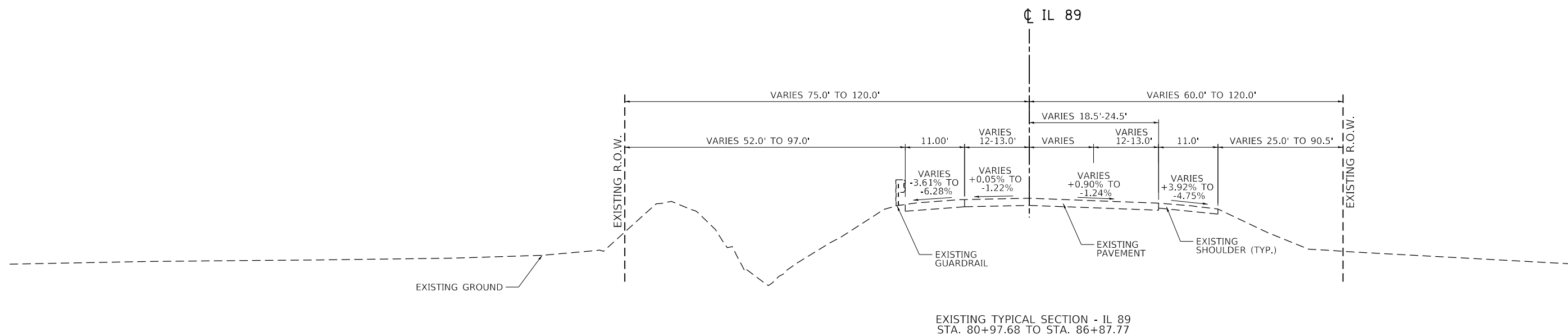
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	DATE - 04/05/2019	REVISED -

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	6
CONTRACT NO. 89708				



NOTES:

1. PROPOSED SHOULDER IMPROVEMENTS ARE FROM:
STATION 84+15.39 TO STATION 86+85.68 - NORTHBOUND LANE
STATION 83+00.00 TO STATION 86+85.68 - SOUTHBOUND LANE
2. PROPOSED GUARDRAIL IMPROVEMENTS ARE FROM
STATION 83+00.00 TO STATION 86+85.76.
3. CHANNEL RELOCATION IS FROM:
IL89 - STATION 82+39.51 TO STATION 85+17.33
CHANNEL - STATION 10+19.95 TO BK STATION 16+28.87
AH STATION 16+25.23
4. PROPOSED RIGHT OF WAY IS NEEDED FROM
STATION 82+46.00 TO STATION 84+90.33.

FILE NAME: S:\237\2019\15010\Bottom_Road_Phase_II_Design\CADD\CADD_Sheets\0489708-ht-1.pnc\ch.dgn



USER NAME = bmwagehoft	DESIGNED - BMW/JDS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - BMW/CAD/WLL	REVISED -
PLOT DATE = 4/5/2019	CHECKED - GBM	REVISED -
	DATE - 04/05/2019	REVISED -

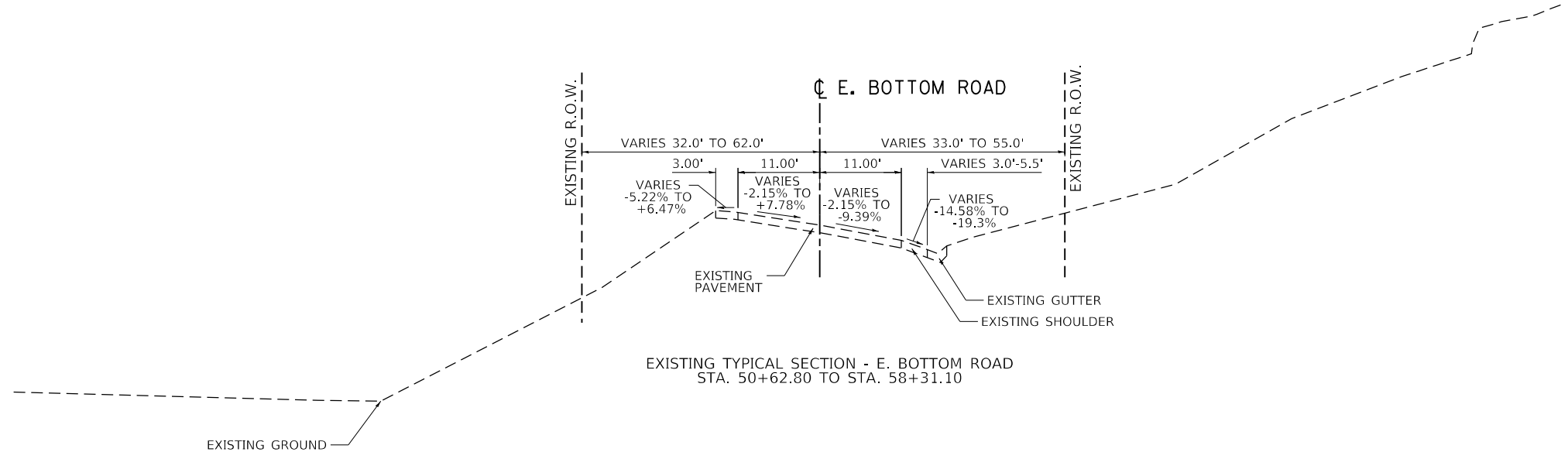
**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
IL 89 TYPICAL SECTIONS**

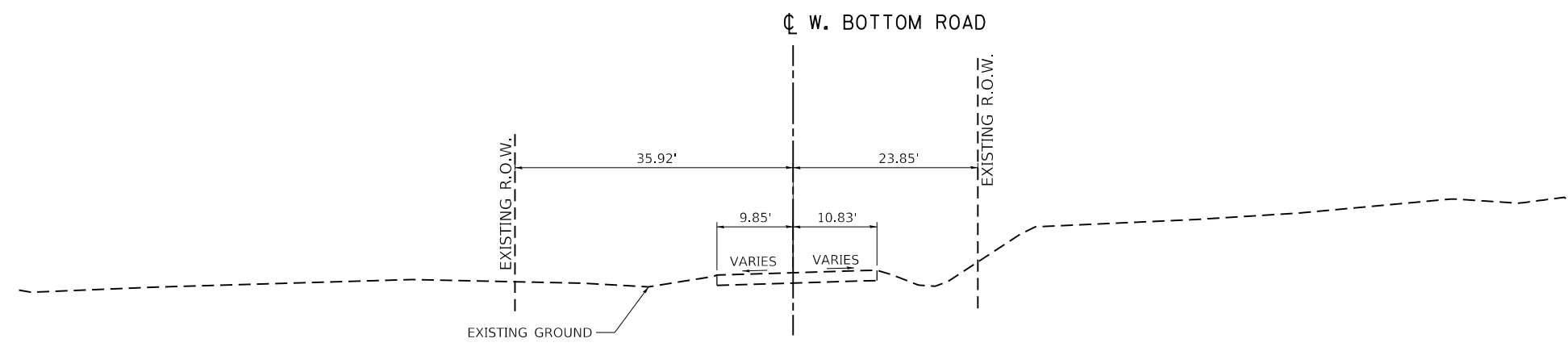
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	7
CONTRACT NO. 89708				

EXISTING STRUCTURE OMISSION
 STA. 50+36.06 TO STA. 50+62.80



EXISTING TYPICAL SECTION - E. BOTTOM ROAD
 STA. 50+62.80 TO STA. 58+31.10



EXISTING TYPICAL SECTION - W. BOTTOM ROAD
 STA. 37+00.00 TO STA. 38+70.00

FILE NAME: S:\237\2019\13-0025\13-0025-00-BR\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-ht-1\pccaludgn



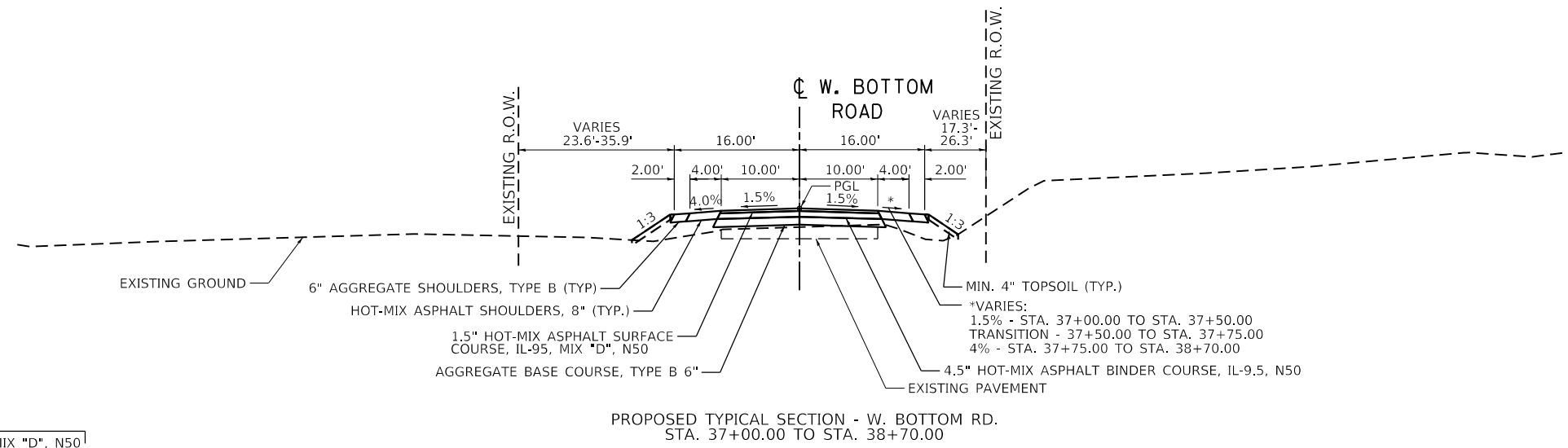
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PLOT DATE = 4/5/2019	DATE - 04/05/2019	REVISED -

PUTNAM COUNTY
 HIGHWAY DEPARTMENT

BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
 BOTTOM RD TYPICAL SECTIONS

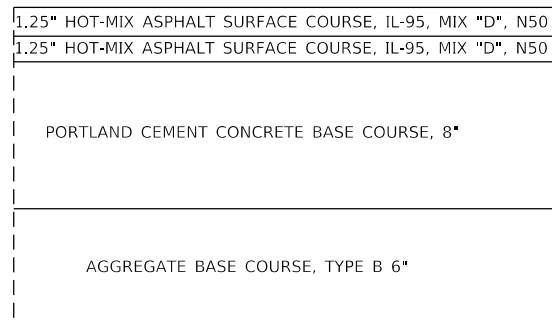
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	8
CONTRACT NO. 89708				

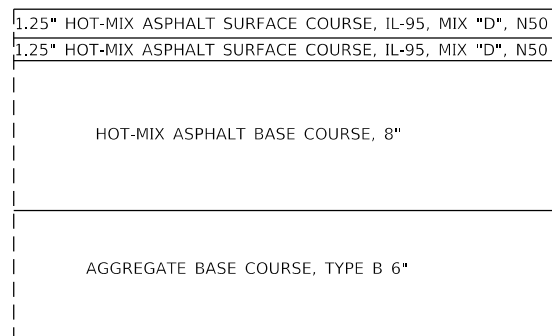


*WB LANE SUPERELEVATION TABLE	
STATION RANGE	SUPERELEVATION
50+82.64 - 51+90.21	-1.5% (NC)
51+90.21 - 52+19.21	-1.5% TO 0.0%
52+19.21 - 52+83.21	0.0% TO +3.3%
52+83.21 - 55+92.97	+3.3% (e MAX)
55+92.97 - 55+98.77	+3.3% TO +3.0%
55+98.77 - 58+68.90	+3.0% TO EXIST.

**EB LANE SUPERELEVATION TABLE	
STATION RANGE	SUPERELEVATION
50+82.64 - 52+48.21	-1.5% (NC)
52+48.21 - 52+83.21	-1.5% TO -3.3%
52+83.21 - 55+92.97	-3.3% (e MAX)
55+92.97 - 55+98.77	-3.3% TO -3.0%
55+98.77 - 58+68.90	-3.0% TO EXIST.

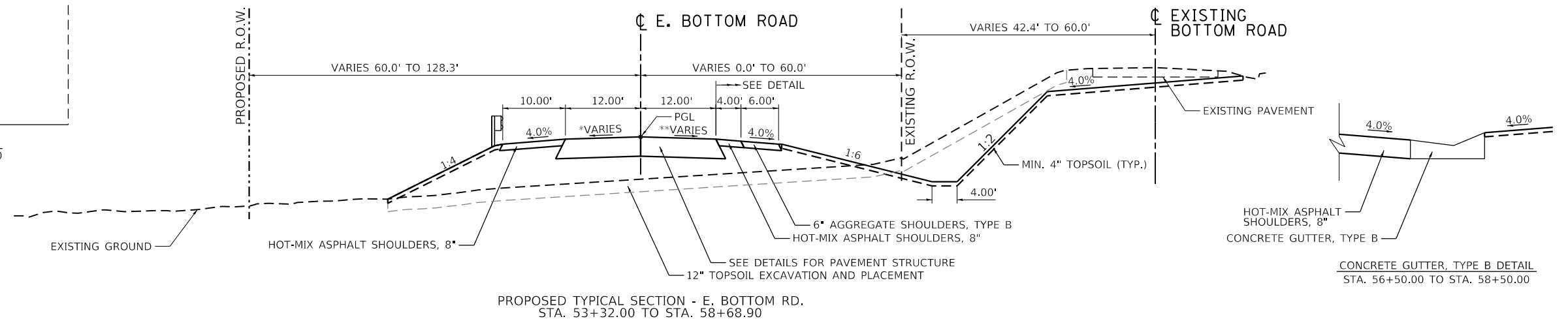
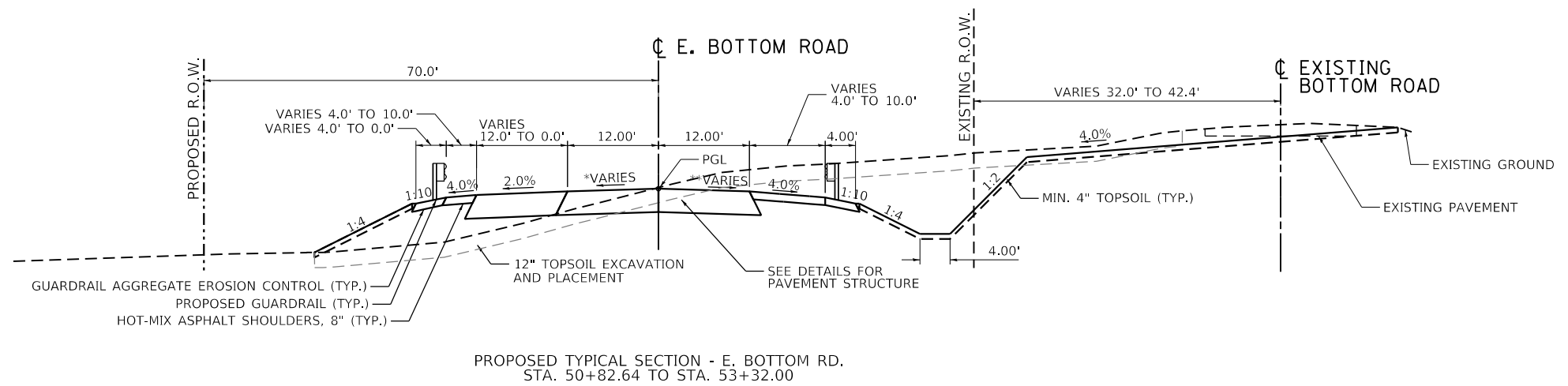


COMPOSITE PAVEMENT DETAIL
 WESTBOUND: STA. 50+82.64 TO STA. 56+00.00
 EASTBOUND: STA. 50+82.64 TO STA. 55+00.00



HMA FULL DEPTH PAVEMENT DETAIL
 WESTBOUND: STA. 56+00.00 TO STA. 58+68.90
 EASTBOUND: STA. 55+00.00 TO STA. 58+68.90

INTERSECTION OMISSION
 STA. 38+70.00 TO STA. 50+82.64



CONCRETE GUTTER, TYPE B DETAIL
 STA. 56+50.00 TO STA. 58+50.00

FILE NAME: S:\237\2019\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-hr-tjpacaludgn



USER NAME = wlewis
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 10/4/2019

DESIGNED - BMW/JDS
 DRAWN - BMW/CAD/WLL
 CHECKED - GBM
 DATE - 04/05/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

PUTNAM COUNTY
 HIGHWAY DEPARTMENT

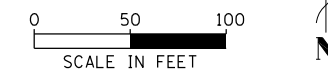
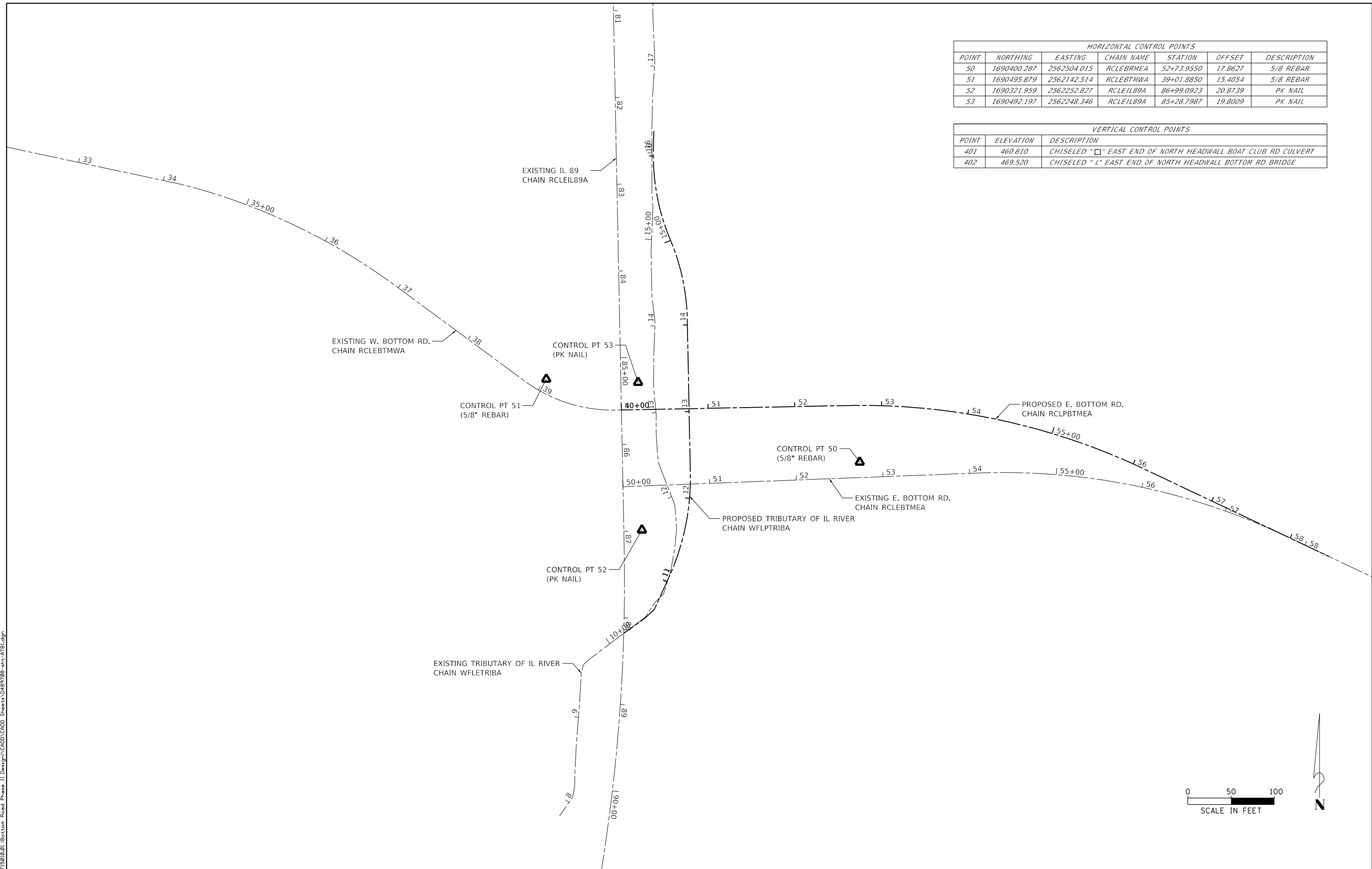
BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
 BOTTOM RD TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	9
CONTRACT NO. 89708				

HORIZONTAL CONTROL POINTS						
POINT	NORTHING	EASTING	CHAIN NAME	STATION	OFFSET	DESCRIPTION
50	1690400.287	2562504.015	RCLEBRMEA	52+73.9550	17.8627	5/8 REBAR
51	1690495.879	2562142.514	RCLEBTMWA	39+01.8850	15.4054	5/8 REBAR
52	1690321.959	2562252.827	RCLEIL89A	86+99.0923	20.8739	PK NAIL
53	1690492.197	2562248.346	RCLEIL89A	85+28.7987	19.8009	PK NAIL

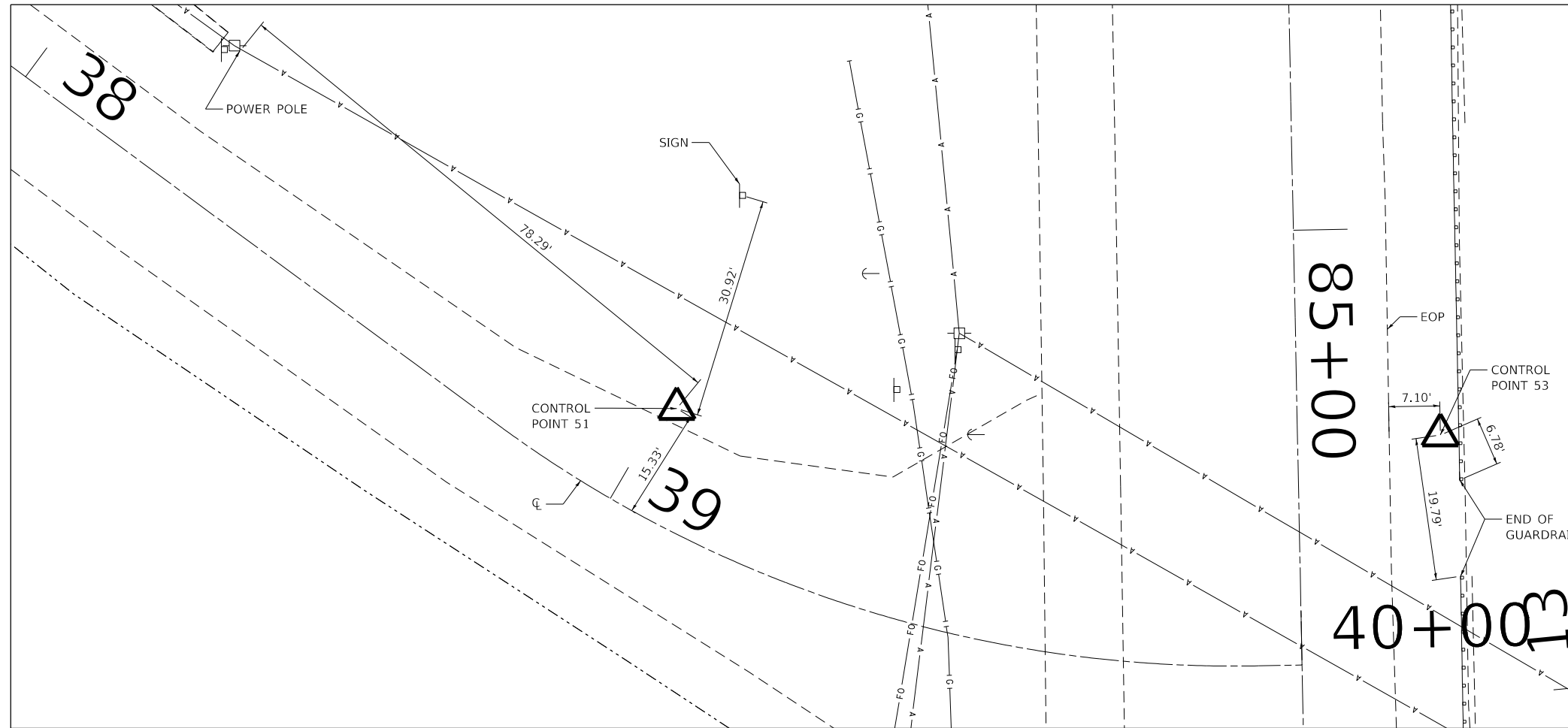
VERTICAL CONTROL POINTS		
POINT	ELEVATION	DESCRIPTION
401	460.810	CHISELED "□" EAST END OF NORTH HEADWALL BOAT CLUB RD CULVERT
402	469.520	CHISELED "L" EAST END OF NORTH HEADWALL BOTTOM RD BRIDGE



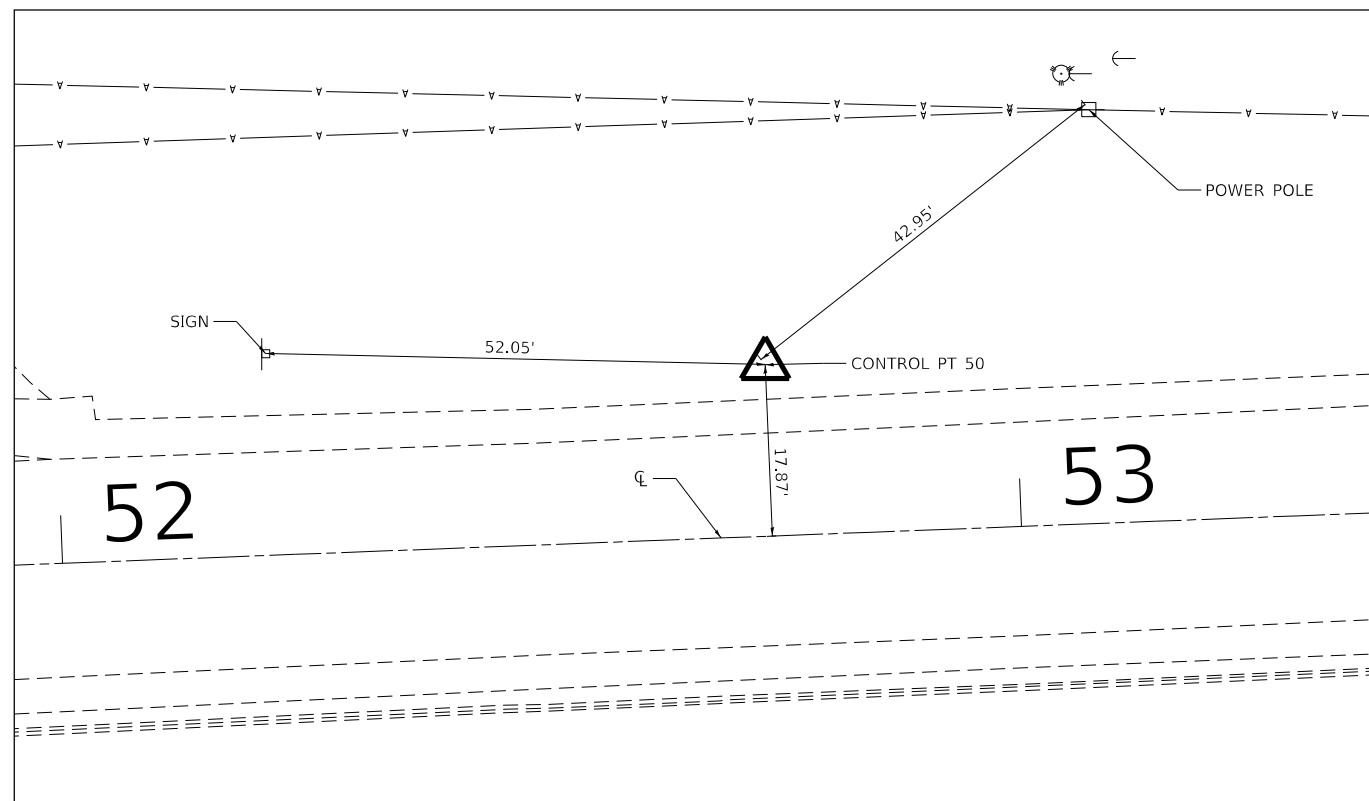
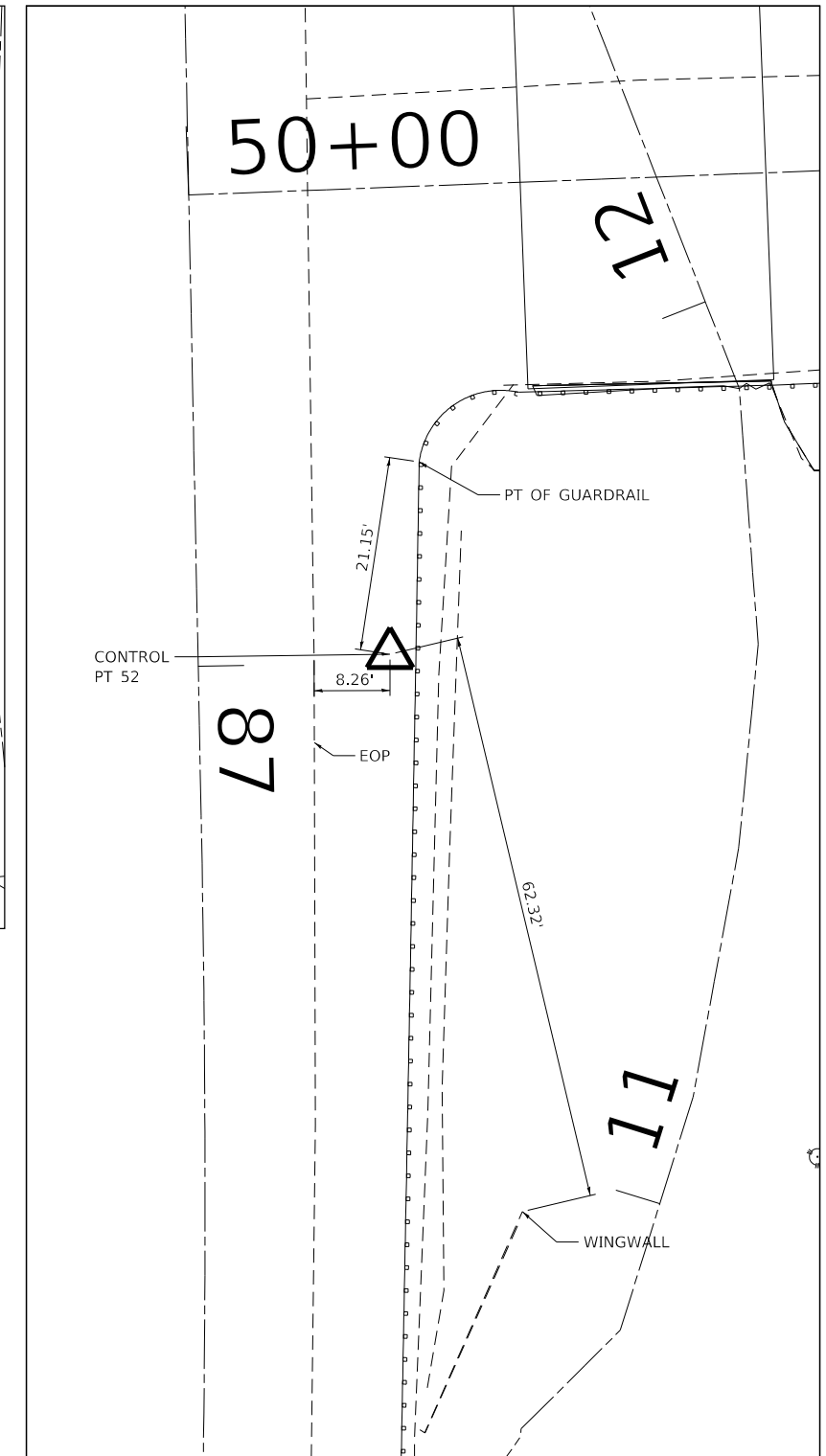
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	USER NAME = bmwagehoft	DESIGNED - BMW/JDS	REVISED -	PUTNAM COUNTY HIGHWAY DEPARTMENT	BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT ALIGNMENTS, TIES, AND BENCHMARKS	F.A.S. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE = 100.0000' / 1in.	CHECKED - GBM	REVISED -			1254	13-00025-00-BR	PUTNAM	56	10
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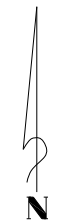
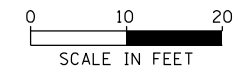
CONTROL POINTS 51 AND 53



CONTROL POINT 52



CONTROL POINT 50



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MAURER-STUTZ
ENGINEERS SURVEYORS

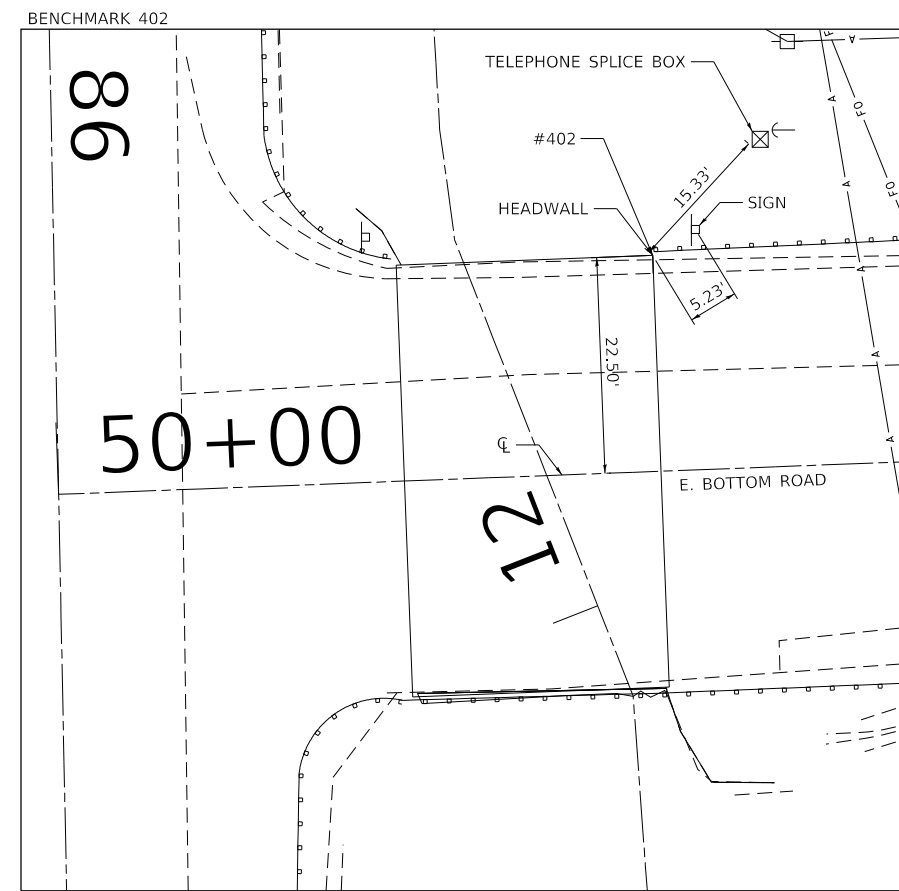
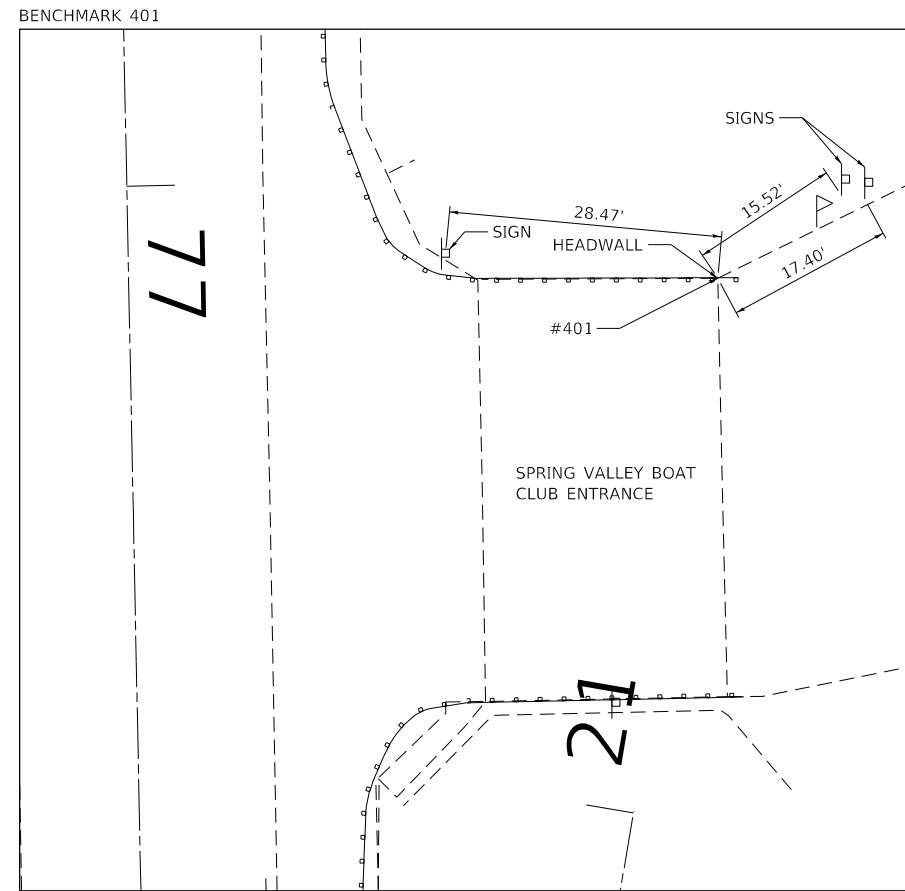
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DRAWN - BMW/CAD/WLL	REVIS	REVISED -
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PLOT DATE = 4/5/2019	DATE - 04/05/2019	REVISED -

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
ALIGNMENT, TIES AND BENCHMARKS**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	11
CONTRACT NO. 89708				



FILE NAME: S:\237\2019\1501\Bottom Road Phase II Design\CADD\CADD Sheets\0489708-h1-A1B2-C1r1_P1a.dgn



USER NAME = bmwagehoft	DESIGNED - BMW/JDS	REVISED -
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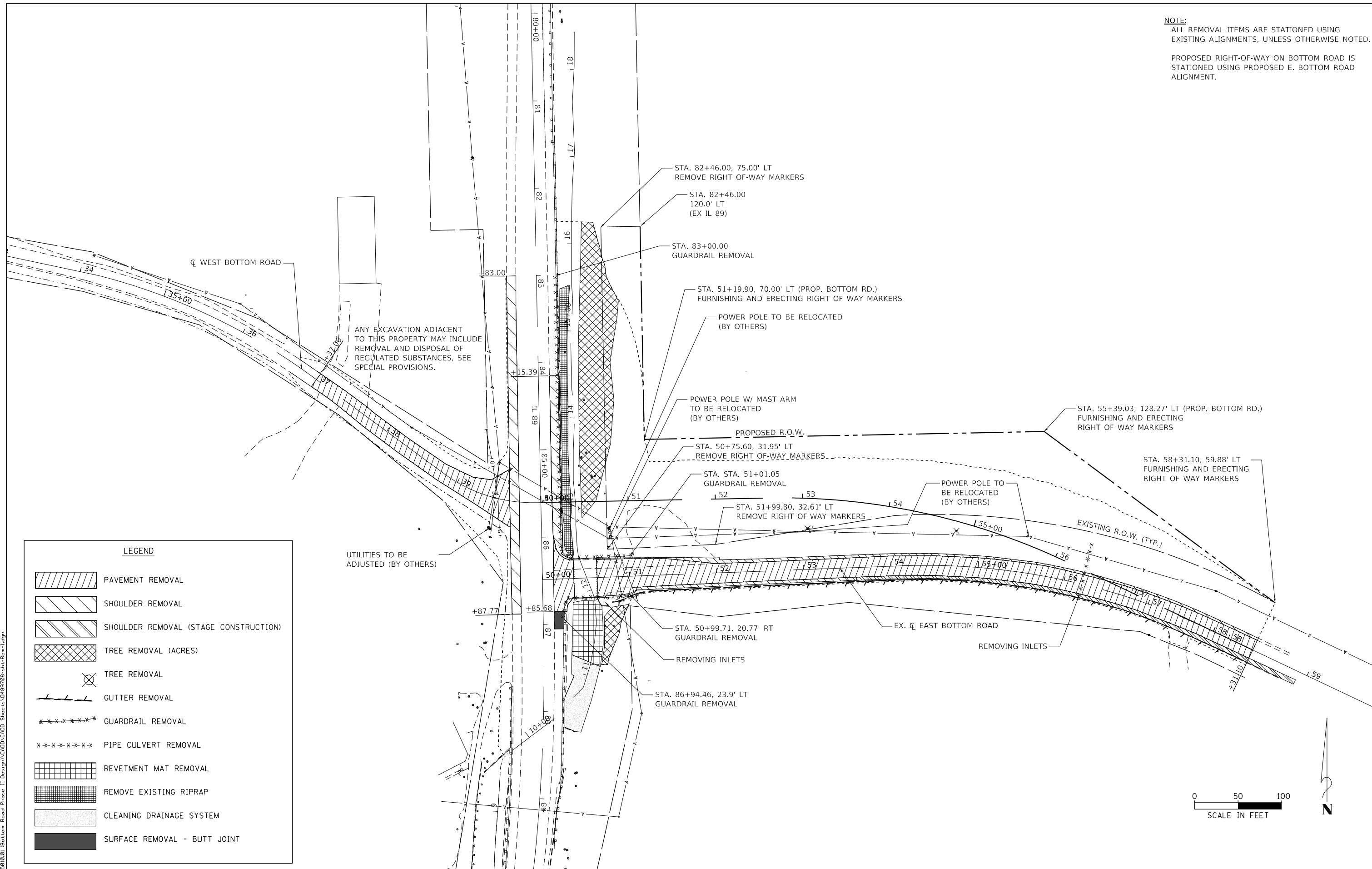
**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
ALIGNMENT, TIES AND BENCHMARKS**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	12
CONTRACT NO. 89708				

NOTE:
 ALL REMOVAL ITEMS ARE STATIONED USING EXISTING ALIGNMENTS, UNLESS OTHERWISE NOTED.
 PROPOSED RIGHT-OF-WAY ON BOTTOM ROAD IS STATIONED USING PROPOSED E. BOTTOM ROAD ALIGNMENT.



LEGEND

	PAVEMENT REMOVAL
	SHOULDER REMOVAL
	SHOULDER REMOVAL (STAGE CONSTRUCTION)
	TREE REMOVAL (ACRES)
	TREE REMOVAL
	GUTTER REMOVAL
	GUARDRAIL REMOVAL
	PIPE CULVERT REMOVAL
	REVTMENT MAT REMOVAL
	REMOVE EXISTING RIPRAP
	CLEANING DRAINAGE SYSTEM
	SURFACE REMOVAL - BUTT JOINT

FILE NAME: S:\237\2019\150150101\Bottom_Road_Phase_II_Design\CADD\CADD_Sheets\0489708-ht-Rem-1.dgn



USER NAME = bmwagehoft
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 4/5/2019

DESIGNED -	BMW/JDS	REVISED -	
DRAWN -	BMW/CAD/WLL	REVISED -	
CHECKED -	GBM	REVISED -	
DATE -	04/05/2019	REVISED -	

**PUTNAM COUNTY
 HIGHWAY DEPARTMENT**

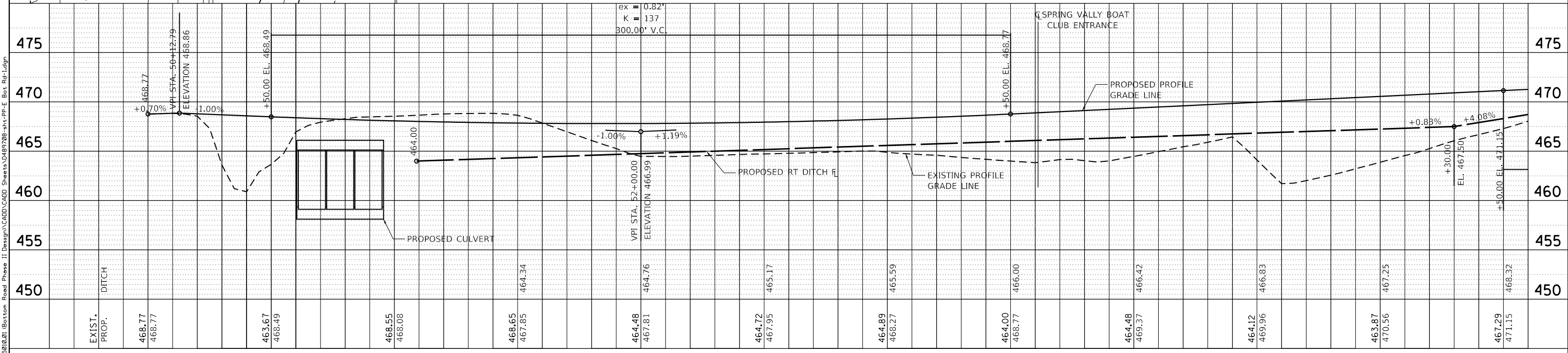
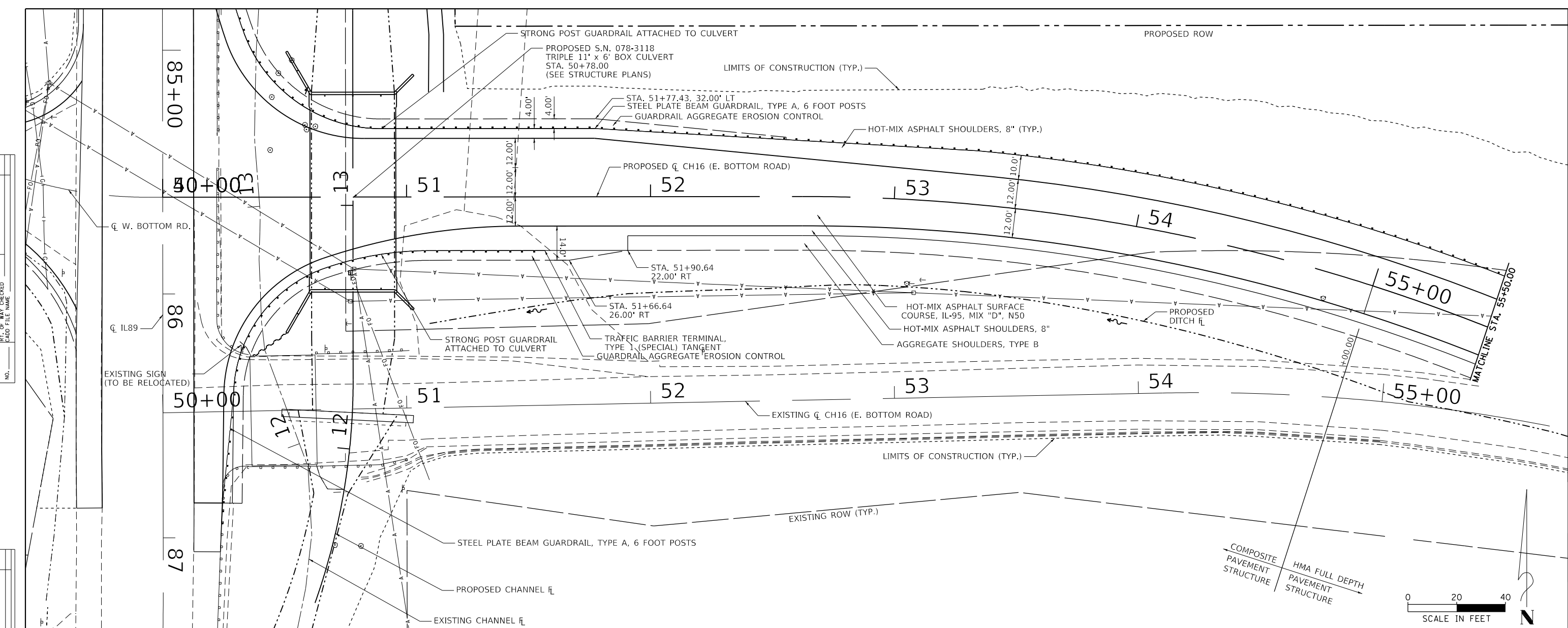
**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
 REMOVAL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	14
			CONTRACT NO. 89708	

PLAN	SURVEYED	DATE
	ALIGNED	BY
	NOTED	
	CHECKED	
	FILED	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	FILE NAME	



FILE NAME: S:\237\2019\237150\0201\Bottom Road Phase II Design\CADD\CADD Sheets\049798-sht-PP-E Bot Rd-1.dgn
 USER: wllwlls
 DATE: 10/4/2019



DESIGNED - BMW/JDS	REVISIONS
DRAWN - BMW/CAD/WLL	REVISIONS
CHECKED - GBM	REVISIONS
DATE - 04/05/2019	REVISIONS

PUTNAM COUNTY
HIGHWAY DEPARTMENT

BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
PLAN AND PROFILE SHEET - EAST BOTTOM ROAD

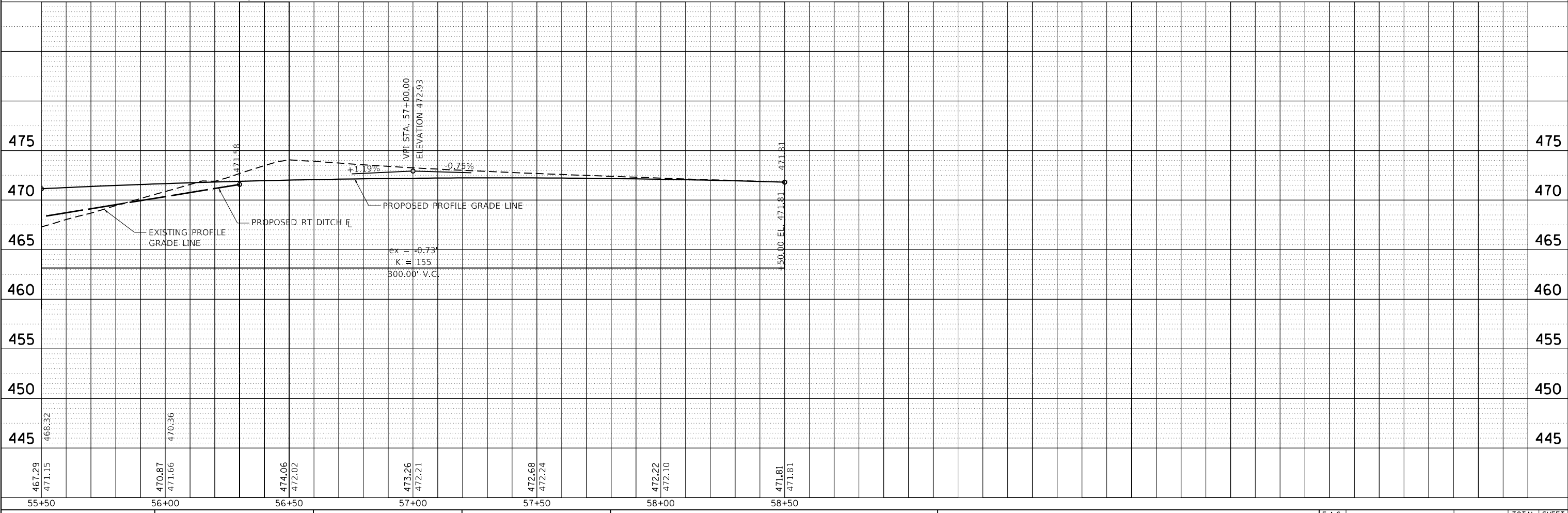
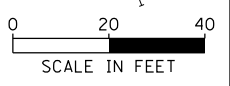
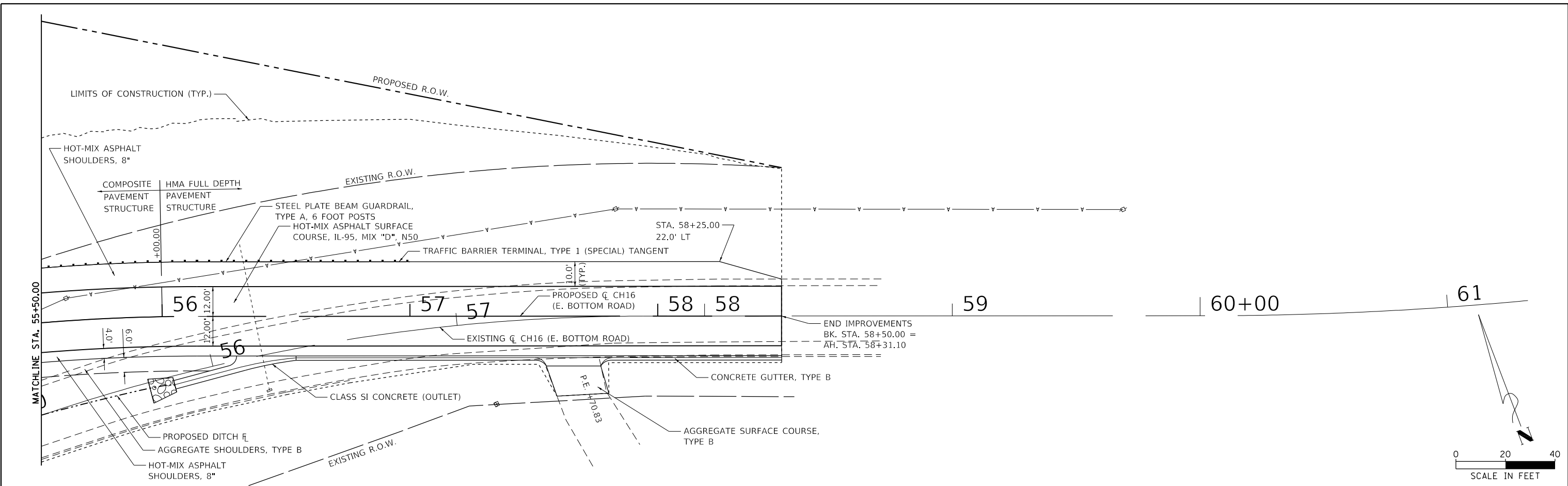
F.A.S. RTE. 1254	SECTION 13-00025-00-BR	COUNTY PUTNAM	TOTAL SHEETS 56	SHEET NO. 15
CONTRACT NO. 89708				

SHEET 1 OF 6 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NO.	FILE NAME	

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

FILE NAME: S:\237\2015\237150\01\Bottom Road Phase II Design\CADD\CADD Sheets\0489708-ent-PP-E Bot Rd-2.dgn



USER NAME	= wllewis	DESIGNED	- BMW/JDS	REVISED	-
		DRAWN	- BMW/CAD/WLL	REVISED	-
		CHECKED	- GBM	REVISED	-
		DATE	- 04/05/2019	REVISED	-

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

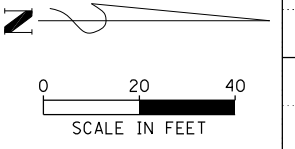
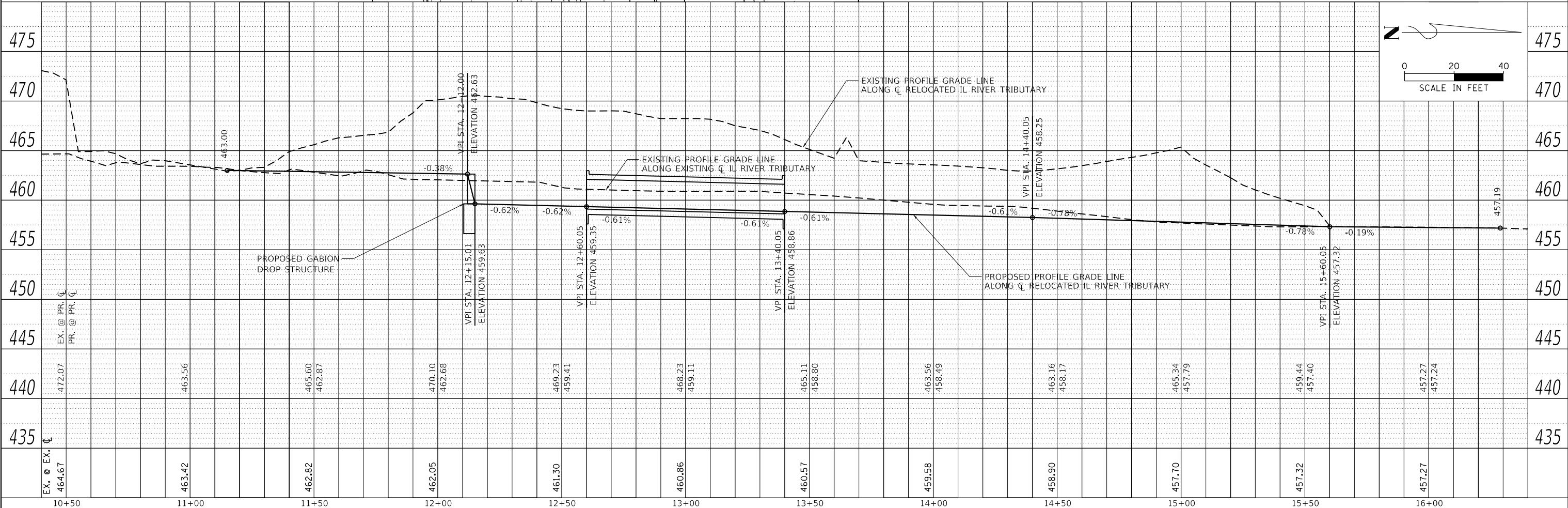
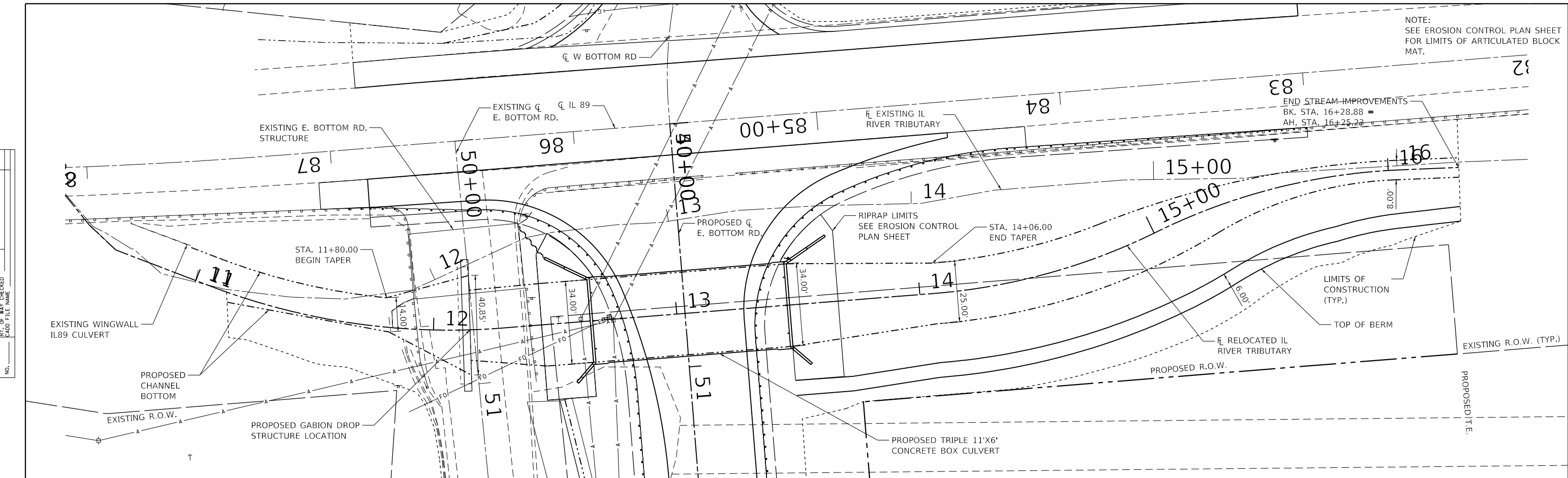
**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
PLAN AND PROFILE SHEET - EAST BOTTOM ROAD**

SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	16
CONTRACT NO. 89708				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO. _____		
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PROFILE	SURVEYED	BY	DATE
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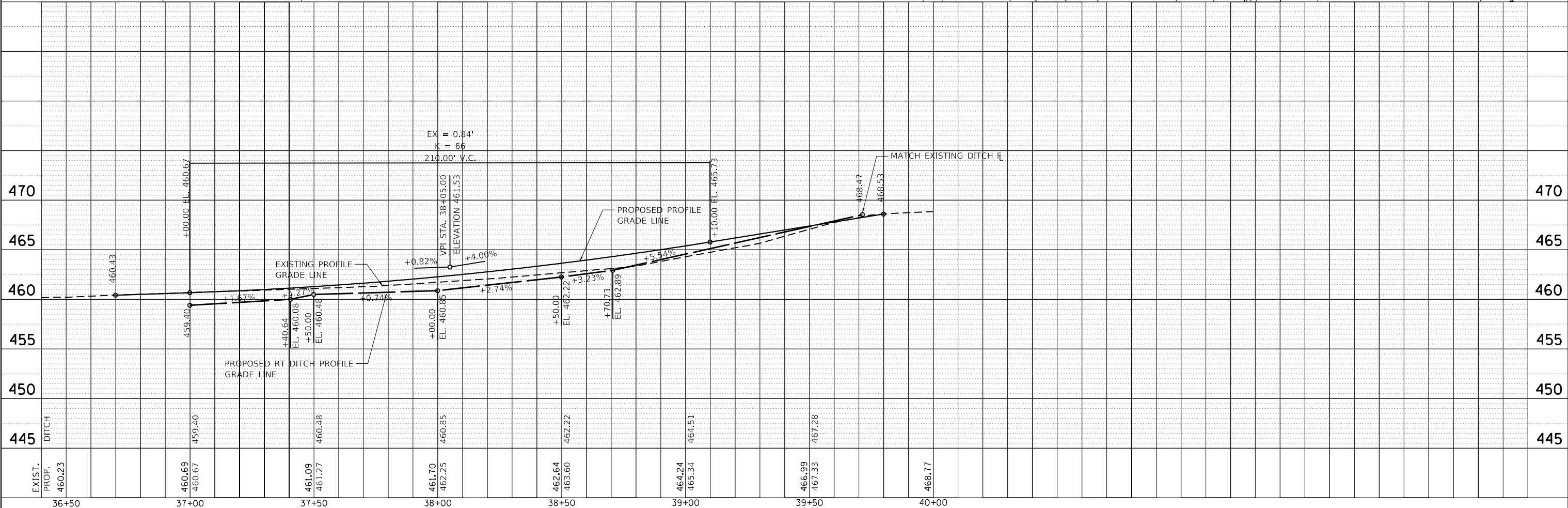
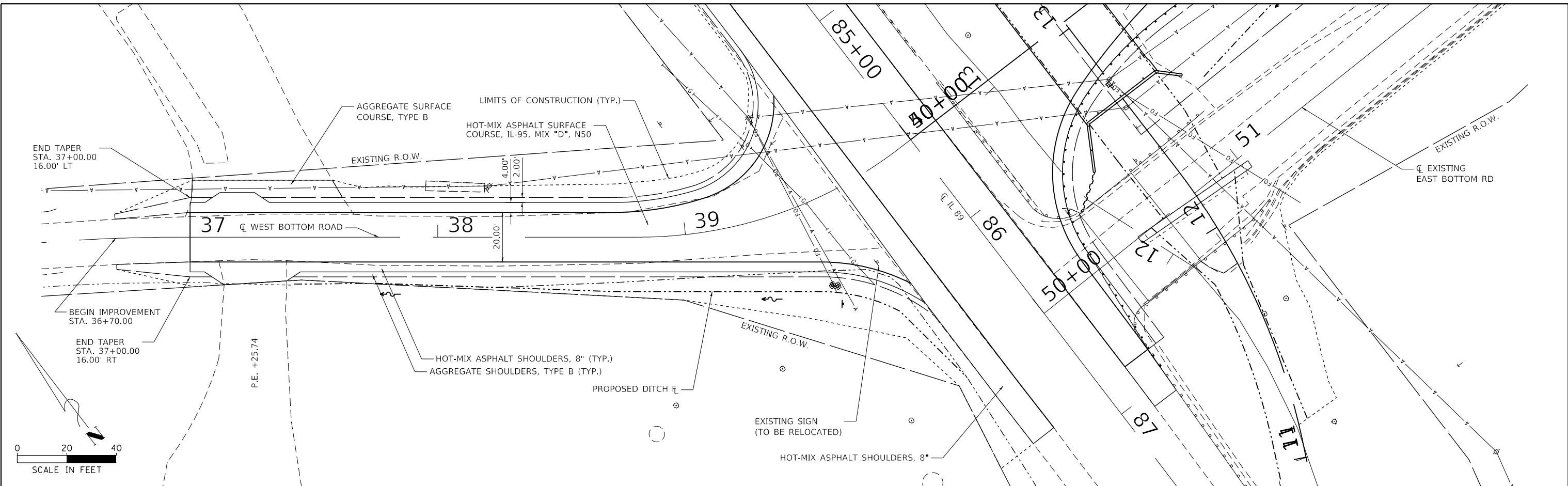


FILE NAME S:\237\2015\237150\01\Bottom Road Phase II Design\CADD\CADD Sheets\0489708-ent-PP-Stream.dgn
 MAURER-STUTZ ENGINEERS SURVEYORS

MAURER-STUTZ ENGINEERS SURVEYORS	USER NAME = bmwagehft DESIGNED - BMW/JDS DRAWN - BMW/CAD/WLL CHECKED - GBM DATE - 04/05/2019	REVISED - REVISED - REVISED - REVISED -	PUTNAM COUNTY HIGHWAY DEPARTMENT	BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT PLAN AND PROFILE - IL RIVER TRIBUTARY RELOCATION	F.A.S. R.T.E. 1254 SECTION 13-00025-00-BR COUNTY PUTNAM CONTRACT NO. 89708	TOTAL SHEETS 56 SHEET NO. 17
			SHEET 3 OF 6 SHEETS STA. TO STA.			

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

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



USER NAME	= wllewis
DESIGNED	- BMW/JDS
DRAWN	- BMW/CAD/WLL
CHECKED	- GBM
DATE	- 04/05/2019

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
PLAN AND PROFILE SHEET - WEST BOTTOM ROAD**

SHEET 4 OF 6 SHEETS STA. TO STA.

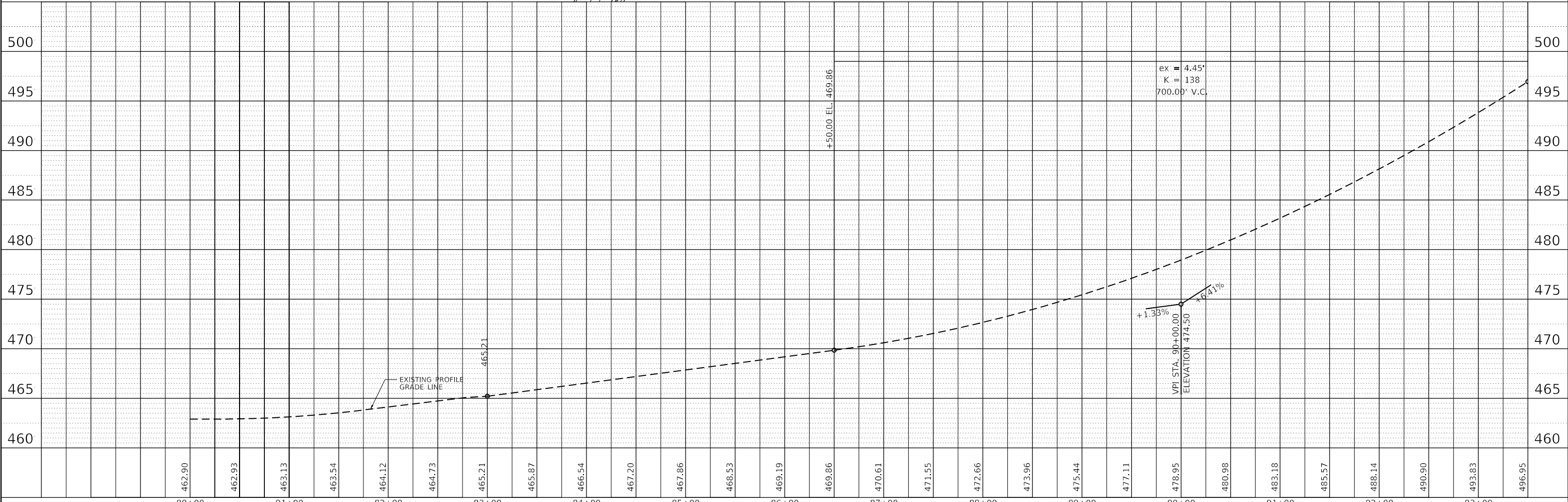
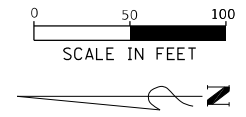
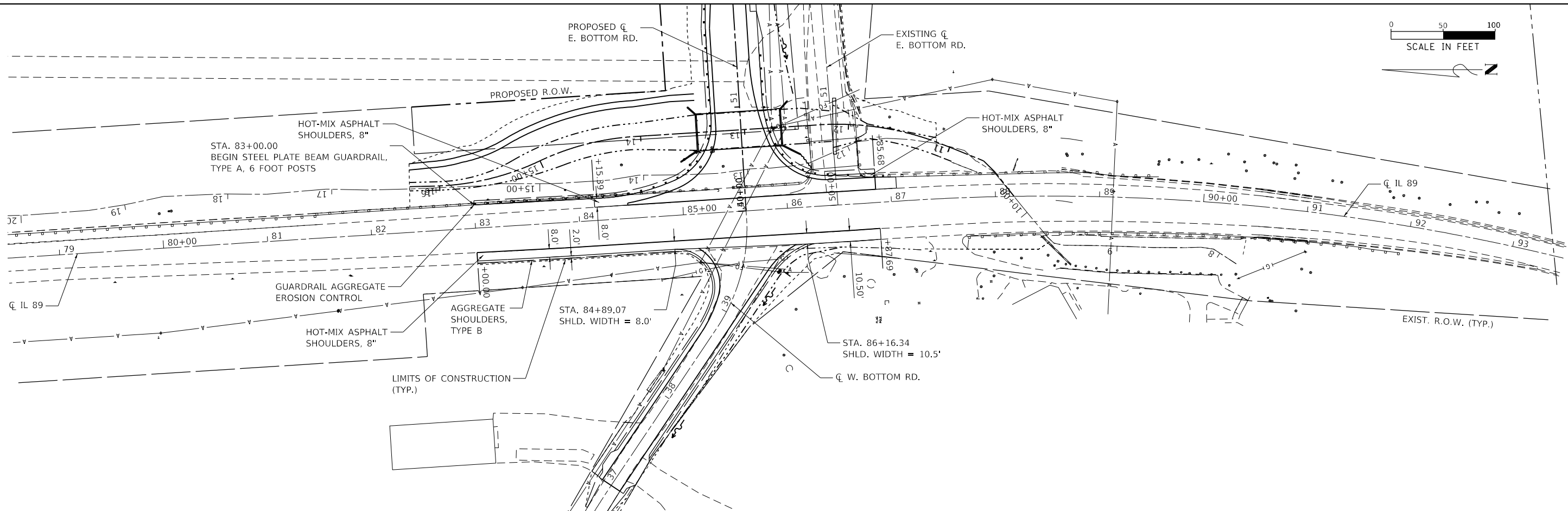
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	18
CONTRACT NO. 89708				

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PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CADD FILE NAME		

FILE NAME: S:\237\2015\237150\0201\Bottom Road Phase II Design\CADD\CADD Sheets\0489708-shr-pp-IL 89.dgn



80+00	462.90	81+00	463.13	82+00	464.12	83+00	465.21	84+00	466.54	85+00	467.86	86+00	469.19	87+00	470.61	88+00	472.66	89+00	475.44	90+00	478.95	91+00	483.18	92+00	488.14	93+00	496.95
USER NAME = bmwagehoft		DESIGNED - BMW/JDS		REVISED -		DRAWN - BMW/CAD/WLL		REVISED -		CHECKED - GBM		REVISED -		DATE - 04/05/2019		REVISED -											
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PLOT DATE = 4/5/2019		DATE - 04/05/2019		REVISED -																							

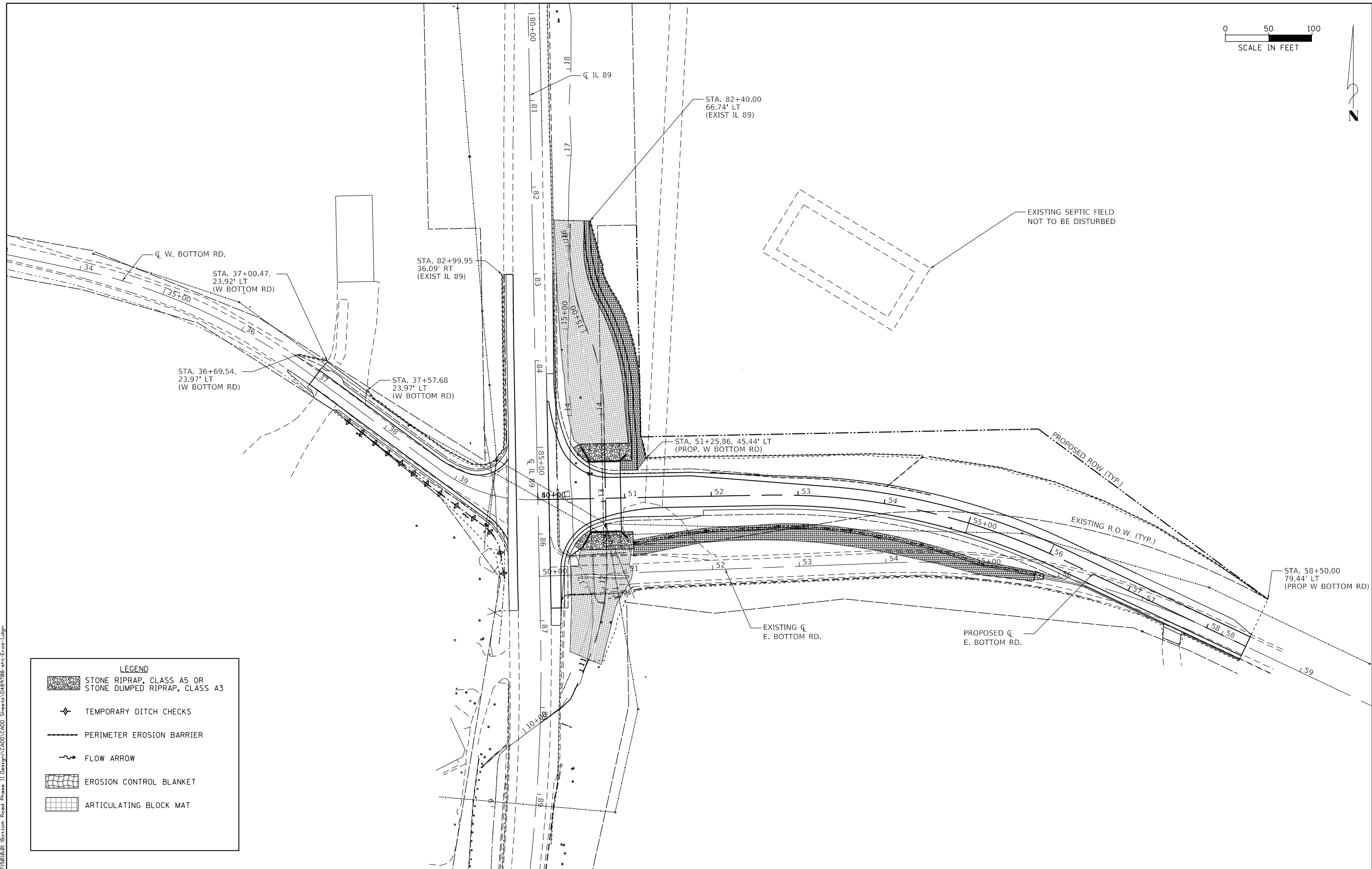
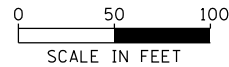


**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
PLAN AND PROFILE - IL 89**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	19
CONTRACT NO. 89708				

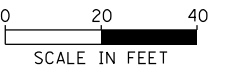
SHEET 6 OF 6 SHEETS STA. TO STA.



LEGEND	
	STONE RIPRAP, CLASS A5 OR STONE DUMPED RIPRAP, CLASS A3
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER
	FLOW ARROW
	EROSION CONTROL BLANKET
	ARTICULATING BLOCK MAT

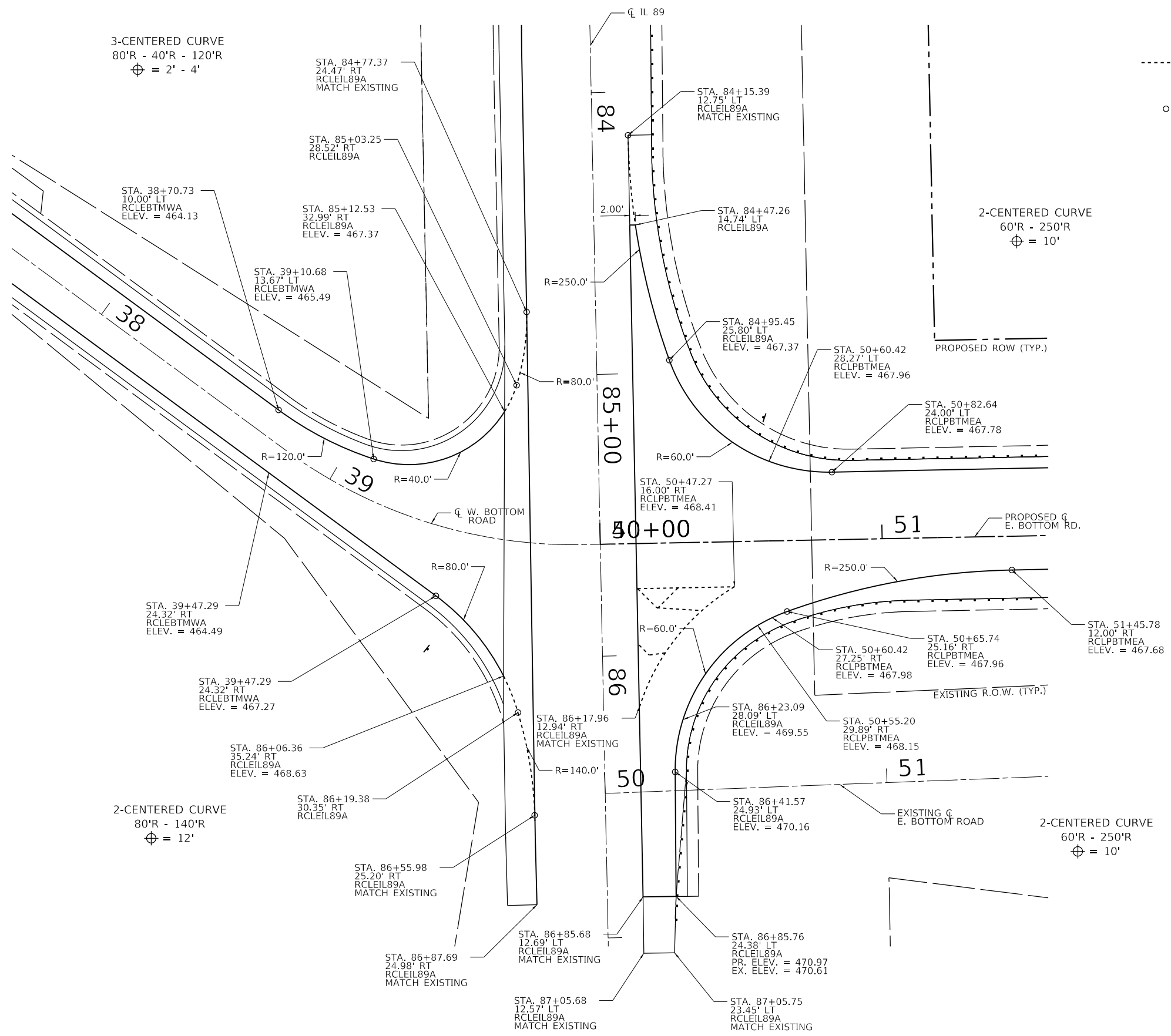
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	USER NAME = bmwagehoft	DESIGNED - BMW/JDS	REVISED -	PUTNAM COUNTY HIGHWAY DEPARTMENT	BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT EROSION CONTROL PLAN	F.A.S. RTE. = 1254	SECTION = 13-00025-00-BR	COUNTY = PUTNAM	TOTAL SHEETS = 56	SHEET NO. = 20
	PLOT SCALE = 100.0000' / 1" =	CHECKED - GBM	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 89708	
	PLOT DATE = 4/5/2019	DATE = 04/05/2019	REVISED -							



----- PROPOSED PAVEMENT MARKING.
SEE PAVEMENT MARKING PLAN.

○ PROPOSED POINTS OF CURVATURE
AND/OR TANGENCY



FILE NAME: S:\237\2019\15010101\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-ht-105.dgn



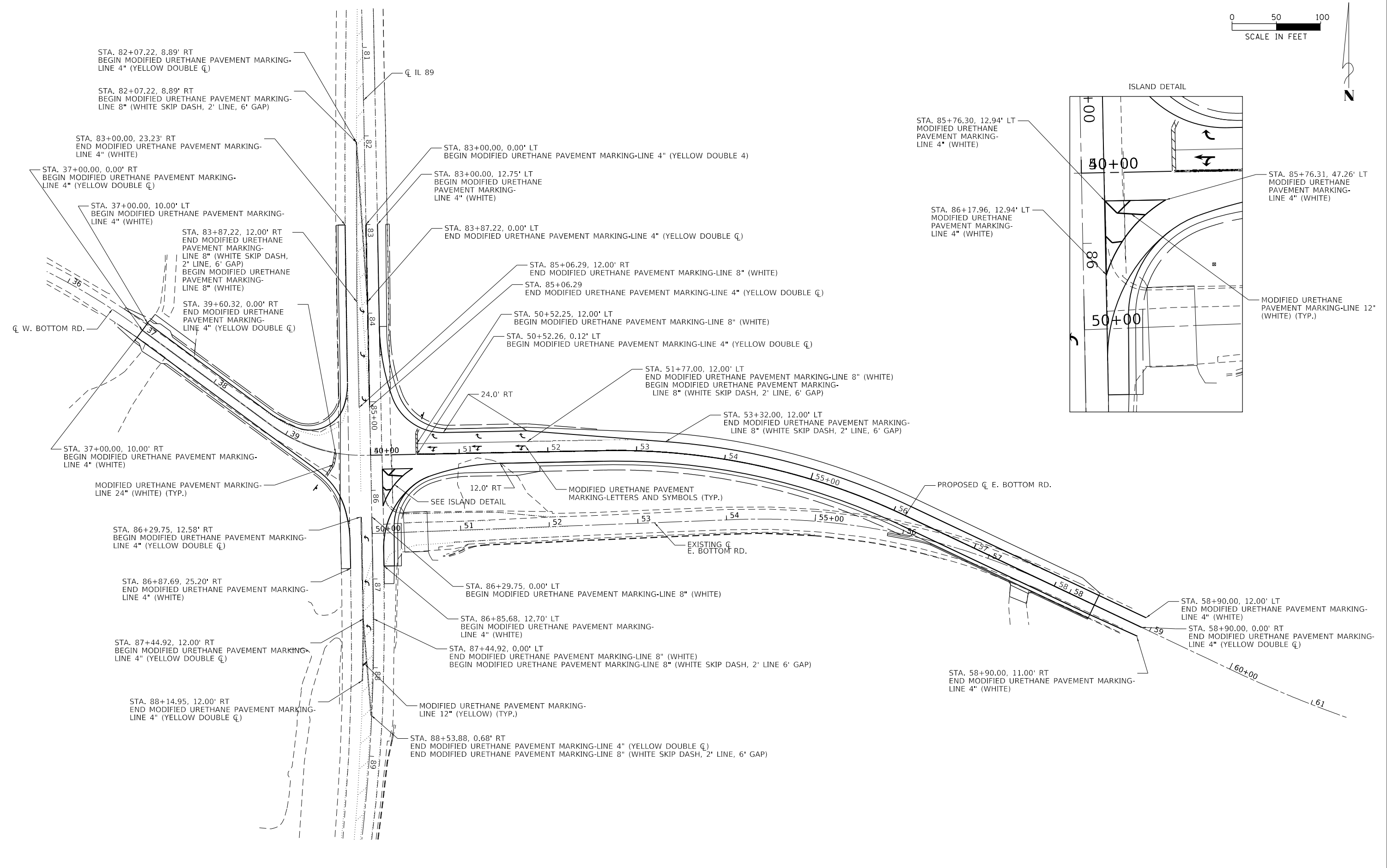
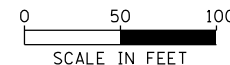
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PLOT DATE = 4/5/2019	DATE - 04/05/2019	REVISOR -

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
INTERSECTION DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	21
CONTRACT NO. 89708				



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	DATE - 04/05/2019	REVISED -

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

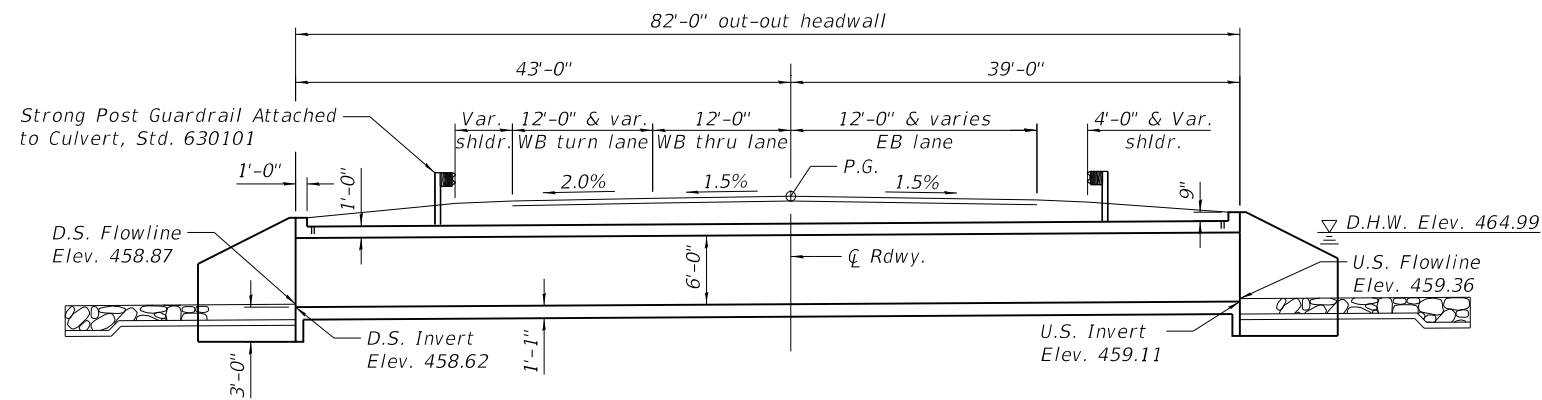
**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
PAVEMENT MARKING**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	22
CONTRACT NO. 89708				

Bench Mark - BM#402. Chiseled "L" on NE wingwall of existing structure. Sta. 50+62.16, 65.0' Rt. (Prop. Align.), Elev. 469.52.
 Existing Structure - S.N. 078-3002: Built in 1950, the structure consists of a single span superstructure on timber pile-supported closed abutments. The superstructure was replaced and widened in 1980, with new metal shell piles for the widened substructures. The existing bridge is 26'-10" bk. to bk. of abutments and 45'-0" out to out. The existing bridge is to be removed and replaced with a culvert on a parallel alignment while maintaining traffic on the existing structure.

Salvage - None



LONGITUDINAL SECTION

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Culvert Details
4. Culvert Details
5. Soil Boring Logs

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

TOTAL BILL OF MATERIAL

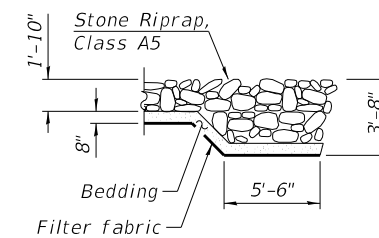
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	249
Stone Riprap, Class A5	Sq. Yd.	293
Filter Fabric	Sq. Yd.	293
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	1,480
Concrete Structures	Cu. Yd.	7.7
Reinforcement Bars, Epoxy Coated	Pound	54,990
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	82
Concrete Box Culverts	Cu. Yd.	294.5
Geocomposite Wall Drain	Sq. Yd.	353
Membrane Waterproofing System for Buried Structures	Sq. Yd.	353

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Porous Granular Embankment shall be placed to the limits shown in Detail of Excavation and Backfill for Box Culverts in the Rdwy. Plans.

LAYOUT of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Precast alternate is not allowed.



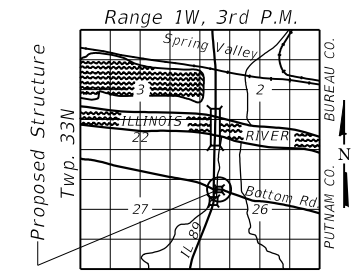
SECTION A-A

WATERWAY INFORMATION

Drainage Area = 1.58 sq. mi. Prop. Low Grade Elev. 467.80 @ Sta. 51+87

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	735	82	140	467.31	463.34	0.80	0.00	468.11	463.34
Base	50	1270	95/40	194	469.15	464.99	1.45	0.15	470.60	465.14
Max. Calc.	100	1520	95/51	198	469.89	465.98	0.74	0.63	470.63	466.61
	500	2160	95/263	198/47	470.86	467.04	0.00	1.52	470.86	468.56

10-Year Velocity thru Exist. Structure = 6.3 fps
 10-Year Velocity thru Prop. Structure = 5.4 fps



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

BOTTOM ROAD OVER

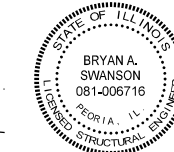
ILLINOIS RIVER TRIBUTARY

F.A.S. 1254 - SEC. 13-00025-00-BR

PUTNAM COUNTY

STA. 50+78

STRUCTURE NO. 078-3118



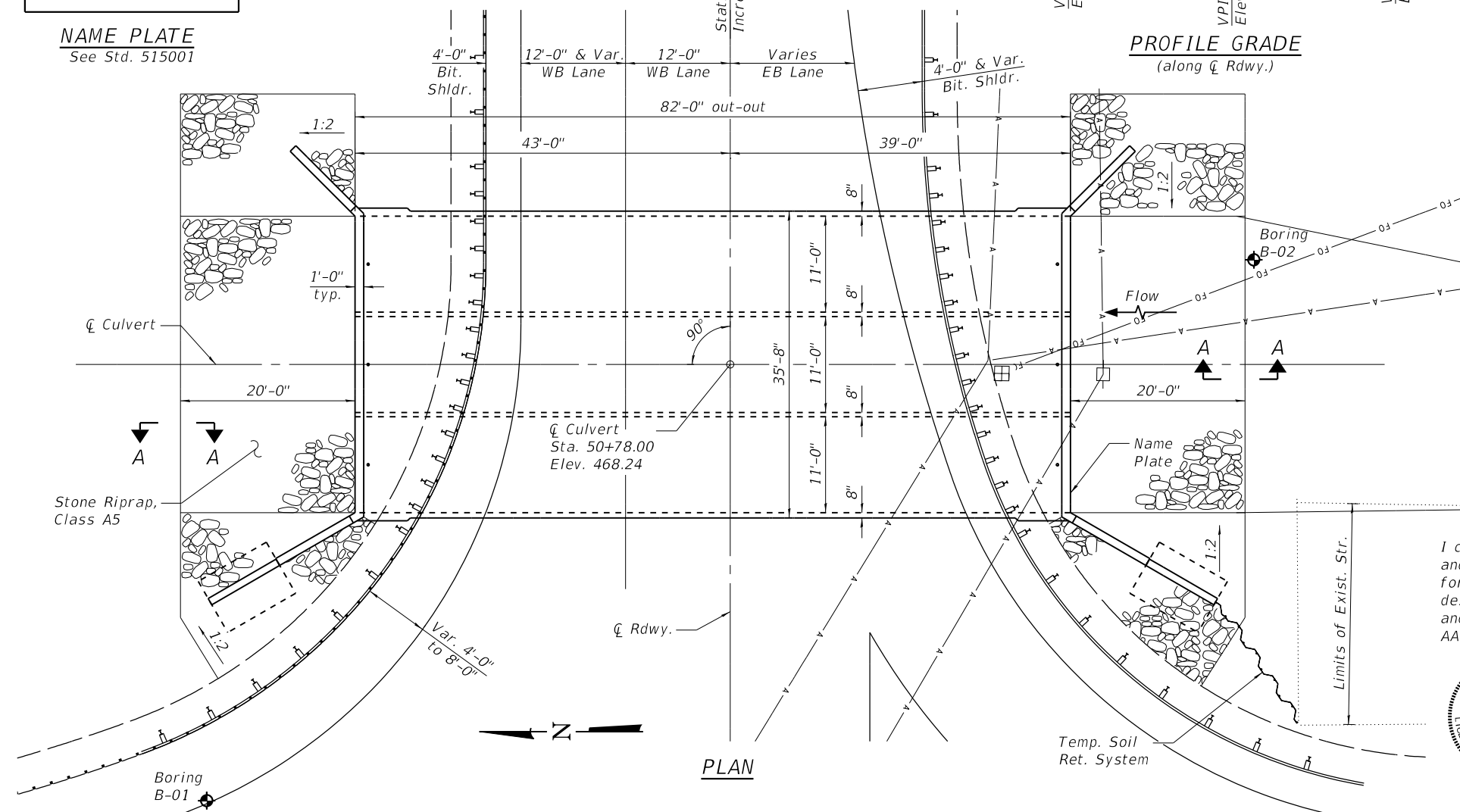
Bryan Swanson
 Date Signed: 10/14/2019
 Exp. Date: 11/30/2020

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 Bridge Design Specifications.

BUILT 20 BY
 PUTNAM COUNTY
 SEC. 13-00025-00-BR
 F.A.S. 1254 STA. 50+78
 LOADING HL-93
 STR. NO. 078-3118

NAME PLATE

See Std. 515001



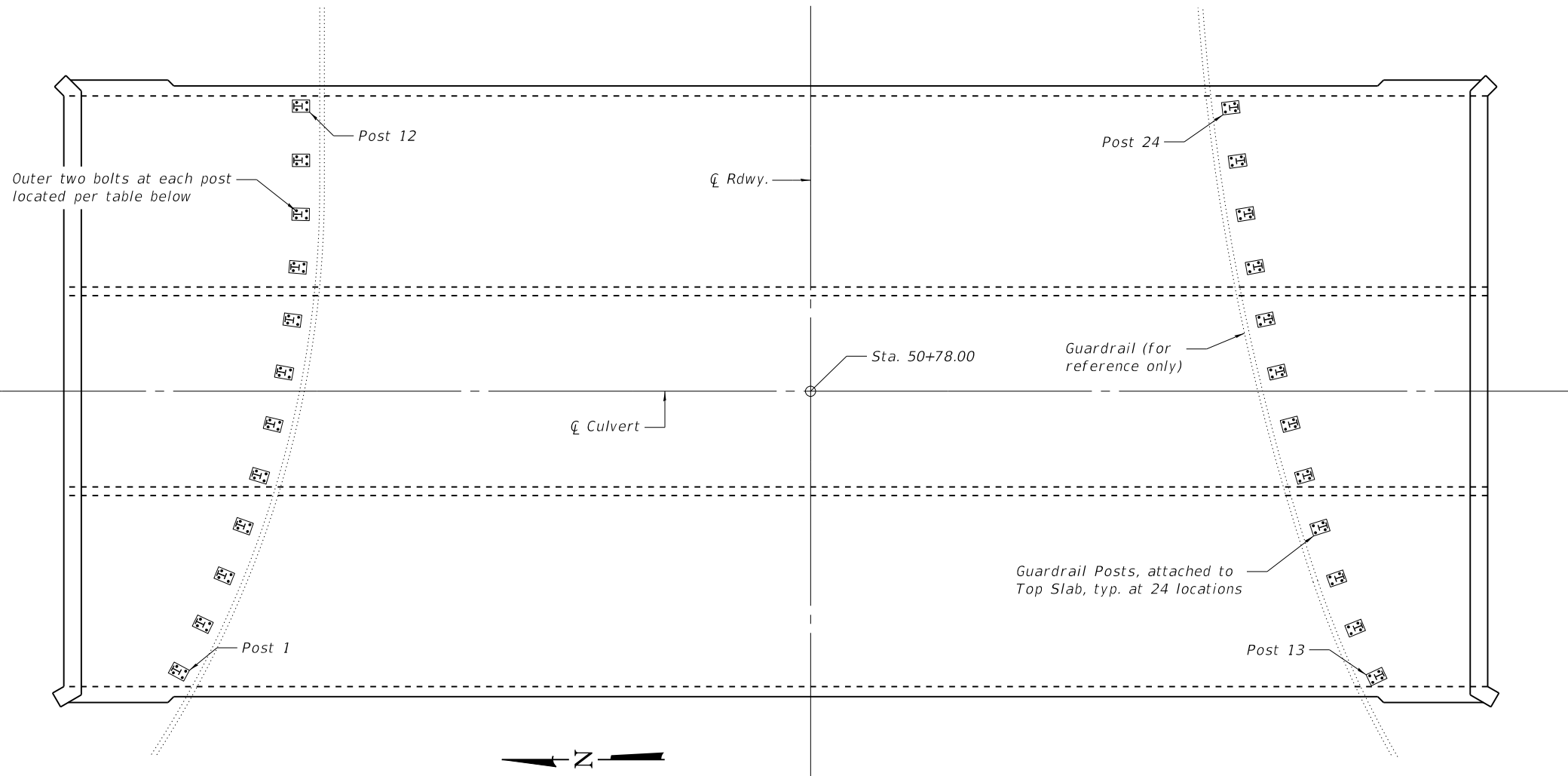
PLAN

PUTNAM COUNTY
 HIGHWAY DEPARTMENT

USER NAME = baswanson	DESIGNED - BAS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/14/2019	DRAWN - BAS	REVISED -
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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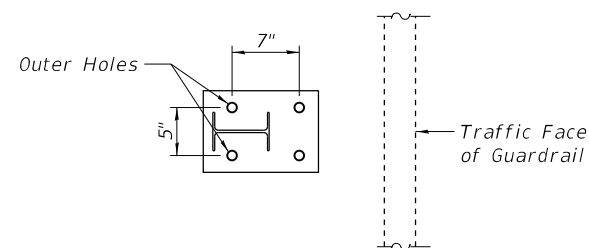
CONTRACT NO. 89708



Notes:
 Provide four (4) formed or cored holes in top slab at each post location as defined by tables in accordance with the Highway Standard for Strong Post Guardrail Attached to Culvert.
 Shift reinforcement bars as necessary to maintain a minimum 1/2" clearance from holes.
 A cantilevered sheet piling design may not be feasible due to a shallow depth to shale, and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

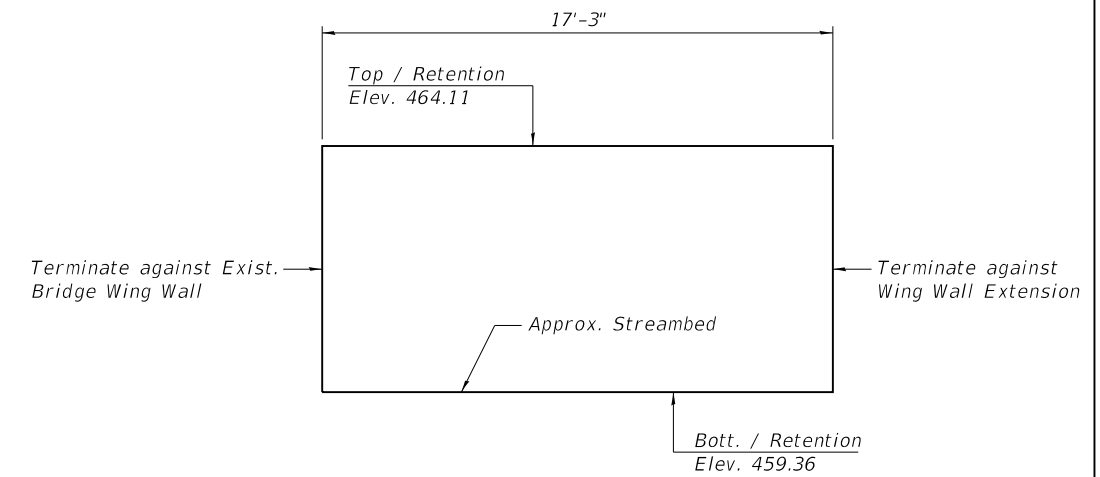
GUARDRAIL POST PLAN

Post	Outer Hole Locations	
	Station	Offset
Post 1	Sta. 50+61.79	-36.70
	Sta. 50+62.16	-36.50
Post 2	Sta. 50+64.51	-35.31
	Sta. 50+64.88	-35.14
Post 3	Sta. 50+67.28	-34.07
	Sta. 50+67.67	-33.91
Post 4	Sta. 50+70.12	-32.98
	Sta. 50+70.51	-32.84
Post 5	Sta. 50+73.01	-32.03
	Sta. 50+73.41	-31.91
Post 6	Sta. 50+75.95	-31.24
	Sta. 50+76.35	-31.14
Post 7	Sta. 50+78.92	-30.60
	Sta. 50+79.33	-30.52
Post 8	Sta. 50+81.92	-30.12
	Sta. 50+82.33	-30.06
Post 9	Sta. 50+84.95	-29.79
	Sta. 50+85.36	-29.76
Post 10	Sta. 50+87.98	-29.62
	Sta. 50+88.40	-29.61
Post 11	Sta. 50+91.09	-29.59
	Sta. 50+91.50	-29.59
Post 12	Sta. 50+94.21	-29.59
	Sta. 50+94.63	-29.59



TYP. ANCHOR HOLE TEMPLATE
 (per Standard 630101)

Post	Outer Hole Locations	
	Station	Offset
Post 13	Sta. 50+61.49	32.91
	Sta. 50+61.87	32.73
Post 14	Sta. 50+64.27	31.68
	Sta. 50+64.65	31.52
Post 15	Sta. 50+67.10	30.60
	Sta. 50+67.50	30.47
Post 16	Sta. 50+70.03	29.64
	Sta. 50+70.43	29.51
Post 17	Sta. 50+72.99	28.75
	Sta. 50+73.39	28.63
Post 18	Sta. 50+75.96	27.92
	Sta. 50+76.37	27.81
Post 19	Sta. 50+78.96	27.17
	Sta. 50+79.36	27.07
Post 20	Sta. 50+81.97	26.49
	Sta. 50+82.38	26.40
Post 21	Sta. 50+85.00	25.88
	Sta. 50+85.40	25.80
Post 22	Sta. 50+88.03	25.34
	Sta. 50+88.45	25.27
Post 23	Sta. 50+91.09	24.87
	Sta. 50+91.50	24.81
Post 24	Sta. 50+94.15	24.47
	Sta. 50+94.56	24.43



TEMPORARY SOIL RETENTION SYSTEM
 (Looking North)

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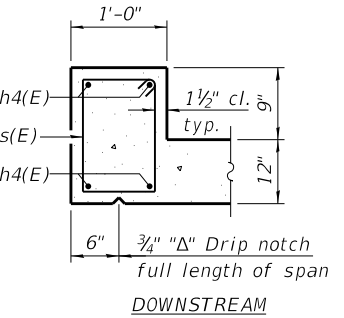
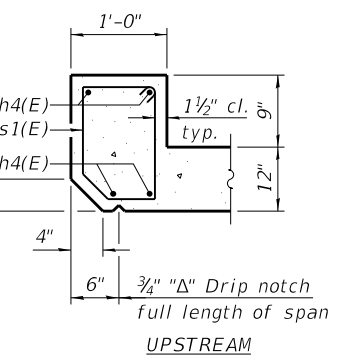
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 4/5/2019	DRAWN - BAS	REVISED -
	CHECKED -	REVISED -

**PUTNAM COUNTY
 HIGHWAY DEPARTMENT**

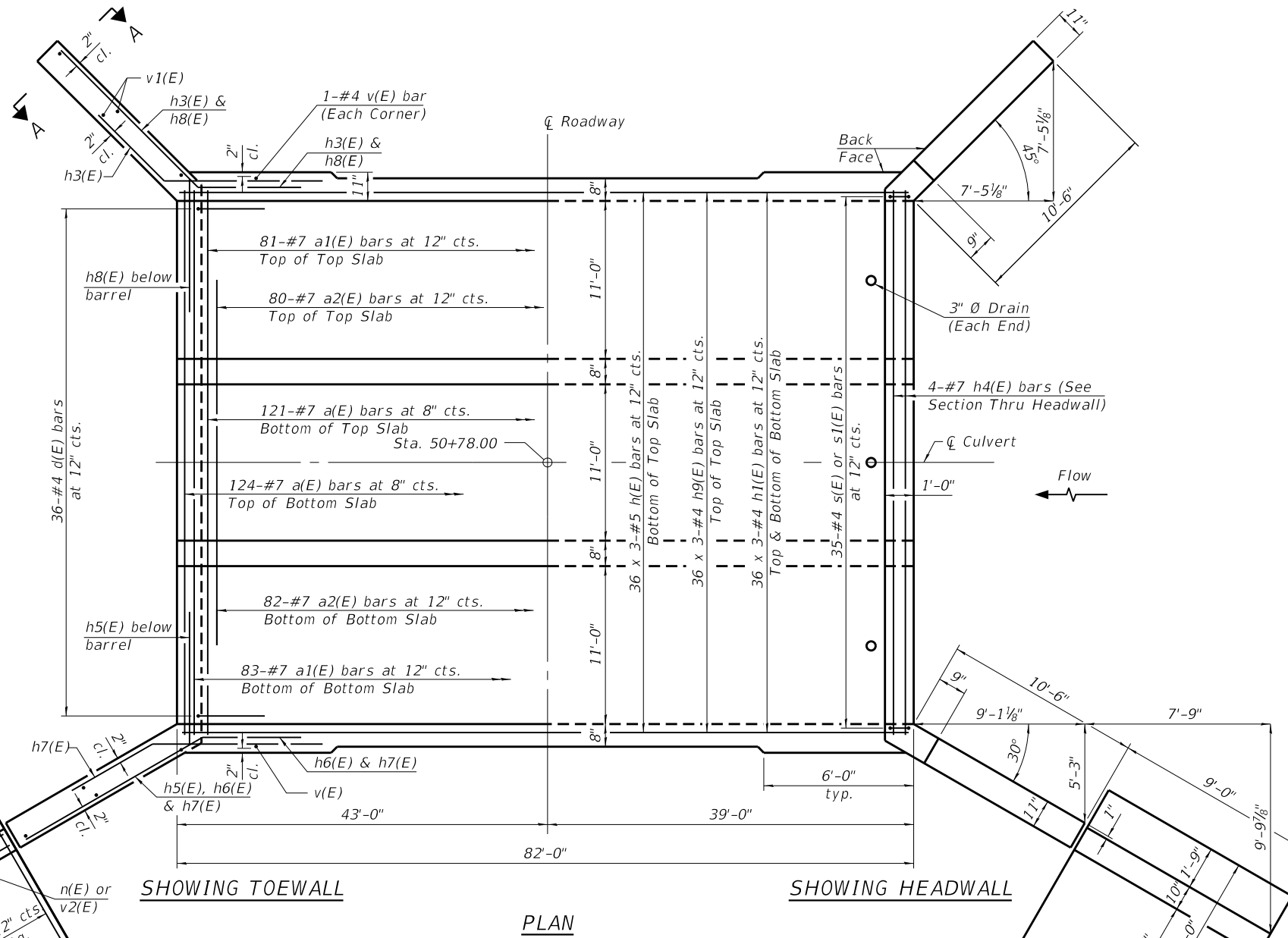
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 STRUCTURE NO. 078-3118**

SHEET NO. 2 OF 5 SHEETS

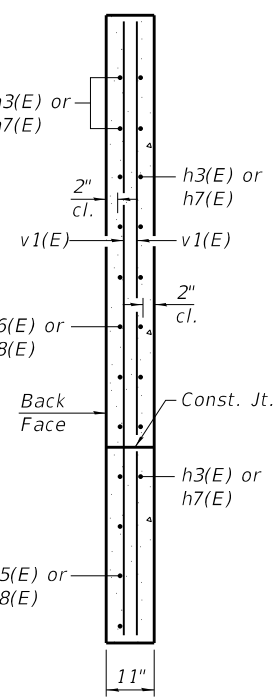
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CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				



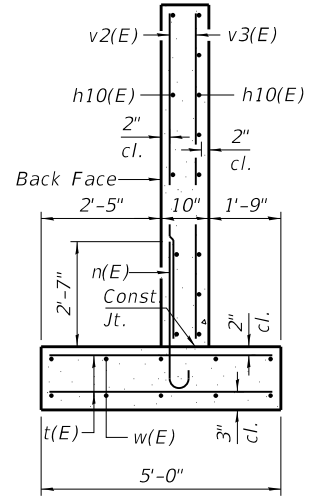
SECTION THRU HEADWALL



PLAN

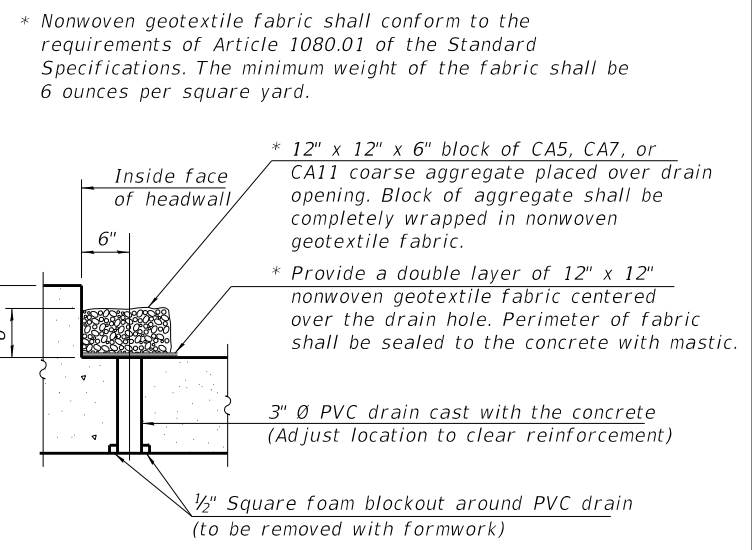


SECTION A-A



SECTION B-B

(Max. Applied Service Bearing Pressure = 1.45 ksf)

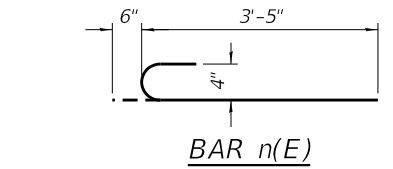


DRAIN DETAIL

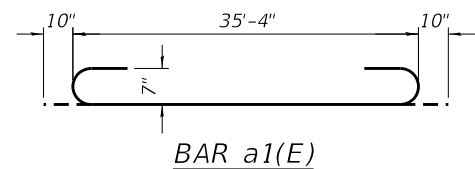
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

MIN. BAR LAP
 #4 bar = 2'-7" (slabs)
 #5 bar = 3'-2"

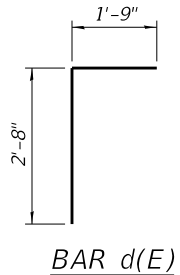
Notes:
 A distance of six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



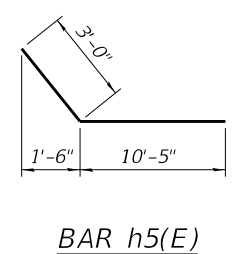
BAR n(E)



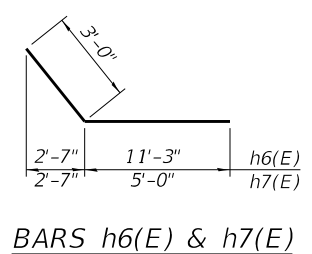
BAR a1(E)



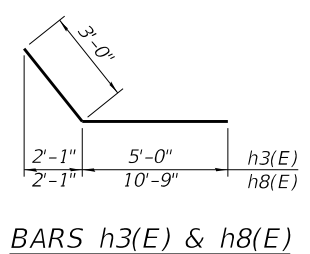
BAR d(E)



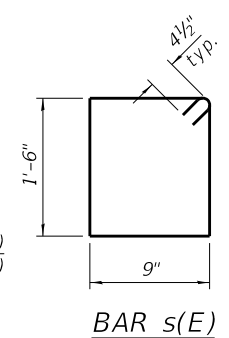
BAR h5(E)



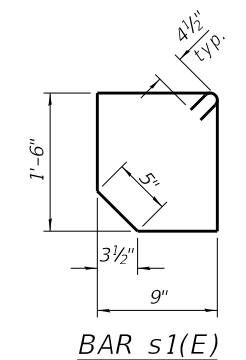
BARS h6(E) & h7(E)



BARS h3(E) & h8(E)



BAR s(E)



BAR s1(E)

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PUTNAM COUNTY
 HIGHWAY DEPARTMENT

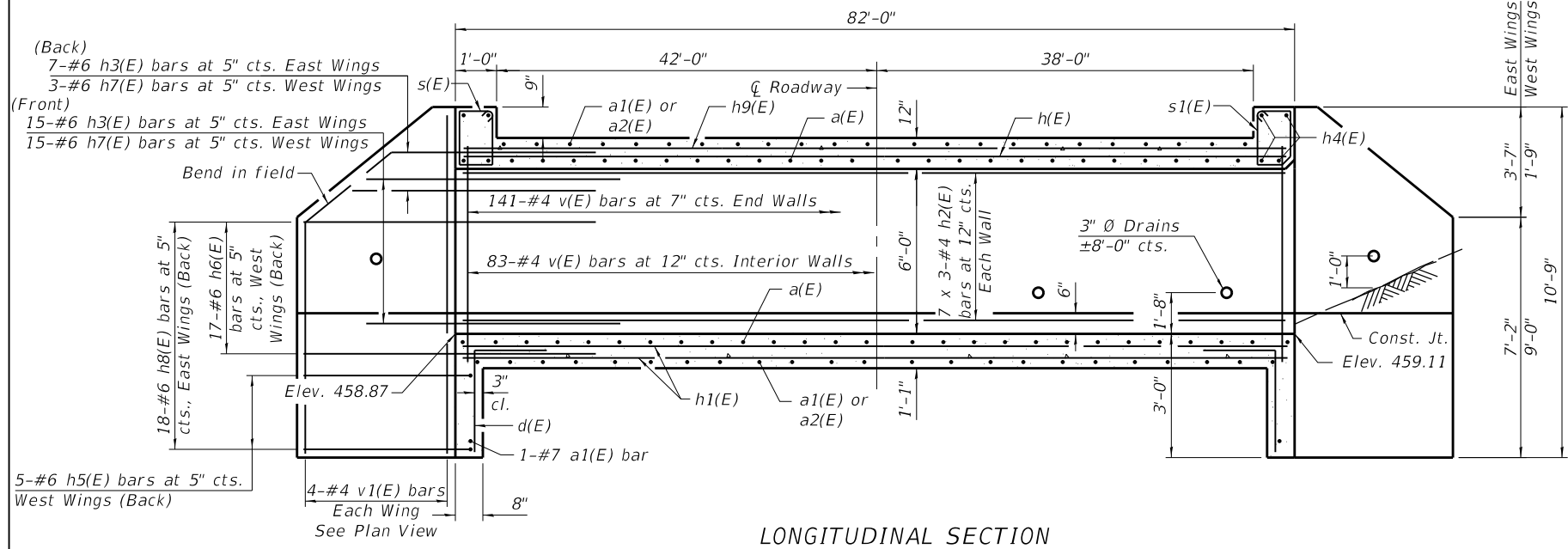
CULVERT DETAILS
 STRUCTURE NO. 078-3118

SHEET NO. 3 OF 5 SHEETS

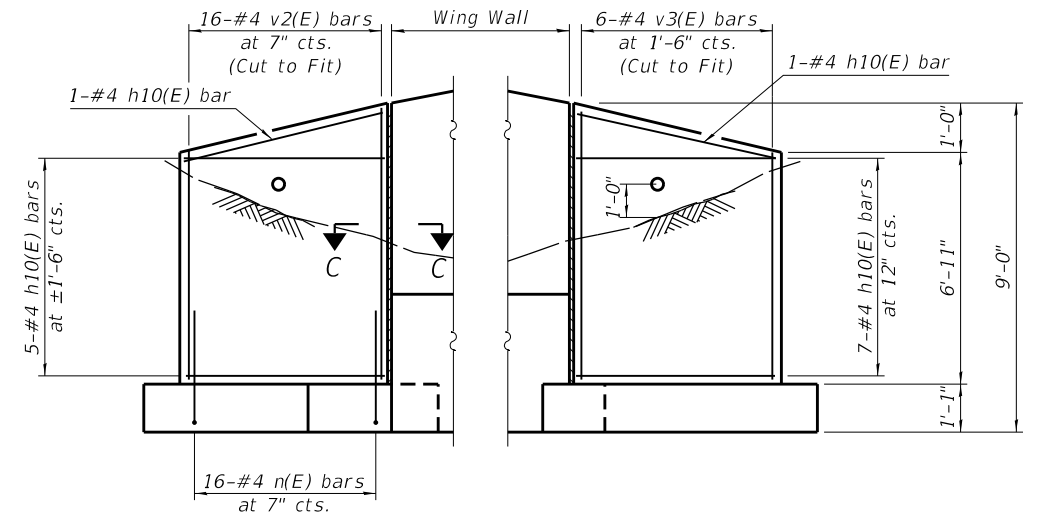
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1254	13-0025-00-BR	PUTNAM	56	25
CONTRACT NO. 89708				

ILLINOIS FED. AID PROJECT

FILE NAME: S:\237\2015\23715010.01 (Bottom Road Phase II Design)\CADD\Sheets\0783118-89708-003-Culvert.dgn



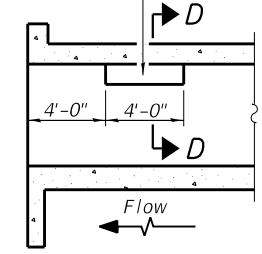
LONGITUDINAL SECTION



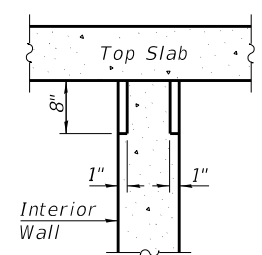
REINF. - BACK FACE **REINF. - FRONT FACE**

WING EXTENSIONS - ELEVATION
(West Wings only)

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



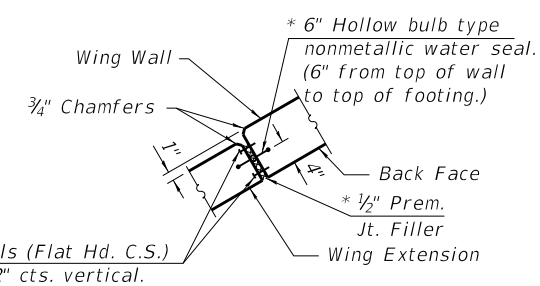
LONGITUDINAL SECTION



SECTION D-D

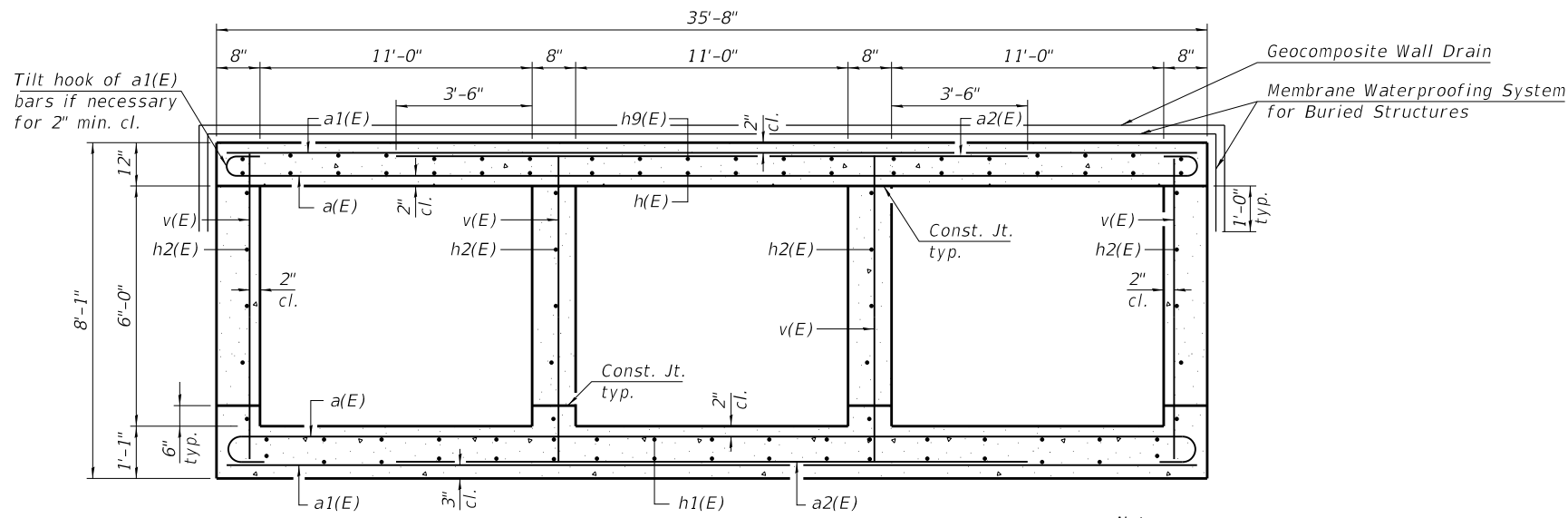
PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

MIN. BAR LAP
#4 bar = 2'-11" (walls)



SECTION C-C

* Cost included with Concrete Structures



SECTION THRU BARREL

Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used through the Membrane Waterproofing System.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	245	#7	37'-0"	U
a1(E)	166	#7	35'-4"	—
a2(E)	162	#7	19'-4"	—
d(E)	72	#4	4'-5"	L
h(E)	108	#5	29'-5"	—
h1(E)	216	#4	29'-0"	—
h2(E)	84	#4	29'-3"	—
h3(E)	44	#6	8'-0"	—
h4(E)	8	#7	35'-2"	—
h5(E)	10	#6	13'-5"	—
h6(E)	34	#6	14'-3"	—
h7(E)	36	#6	8'-0"	—
h8(E)	36	#6	13'-9"	—
h9(E)	108	#4	29'-0"	—
h10(E)	28	#4	8'-8"	—
n(E)	32	#4	3'-11"	U
s(E)	35	#4	5'-3"	U
s1(E)	35	#4	5'-1"	U
t(E)	36	#4	4'-8"	—
v(E)	452	#4	7'-8"	—
v1(E)	16	#4	10'-5"	—
v2(E)	32	#4	7'-9"	—
v3(E)	12	#4	7'-9"	—
w(E)	20	#4	8'-8"	—
Concrete Box Culverts			Cu. Yd.	294.5
Concrete Structures			Cu. Yd.	7.7
Reinforcement Bars, Epoxy Coated			Pound	54,990



USER NAME =	baswanson	DESIGNED -	BAS	REVISED -	
PLOT SCALE =		CHECKED -		REVISED -	
PLOT DATE =	4/5/2019	DRAWN -	BAS	REVISED -	
		CHECKED -		REVISED -	

PUTNAM COUNTY
HIGHWAY DEPARTMENT

CULVERT DETAILS
STRUCTURE NO. 078-3118

SHEET NO. 4 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	26
CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 6/21/16

ROUTE CH-16 (IL 89) DESCRIPTION Bottom Road Box Culvert LOGGED BY Fehl

SECTION 13-00025-00-BR LOCATION Granville Township, SEC. 26, TWP. T33N, RNG. R1W, 3rd PM

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME 55 Automatic

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil descriptions with associated elevations and blow counts.

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

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/21/16

ROUTE CH-16 (IL 89) DESCRIPTION Bottom Road Box Culvert LOGGED BY Fehl

SECTION 13-00025-00-BR LOCATION Granville Township, SEC. 26, TWP. T33N, RNG. R1W, 3rd PM

COUNTY Putnam DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME 55 Automatic

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BBS, form 137 (Rev. 8-99)

MODEL: Default FILE NAME: SA2372015123715010.01 (Bottom Road Phase II Design)(CADD) SHEETS\0783118-89708-005-Borings.dgn



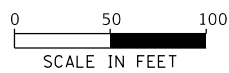
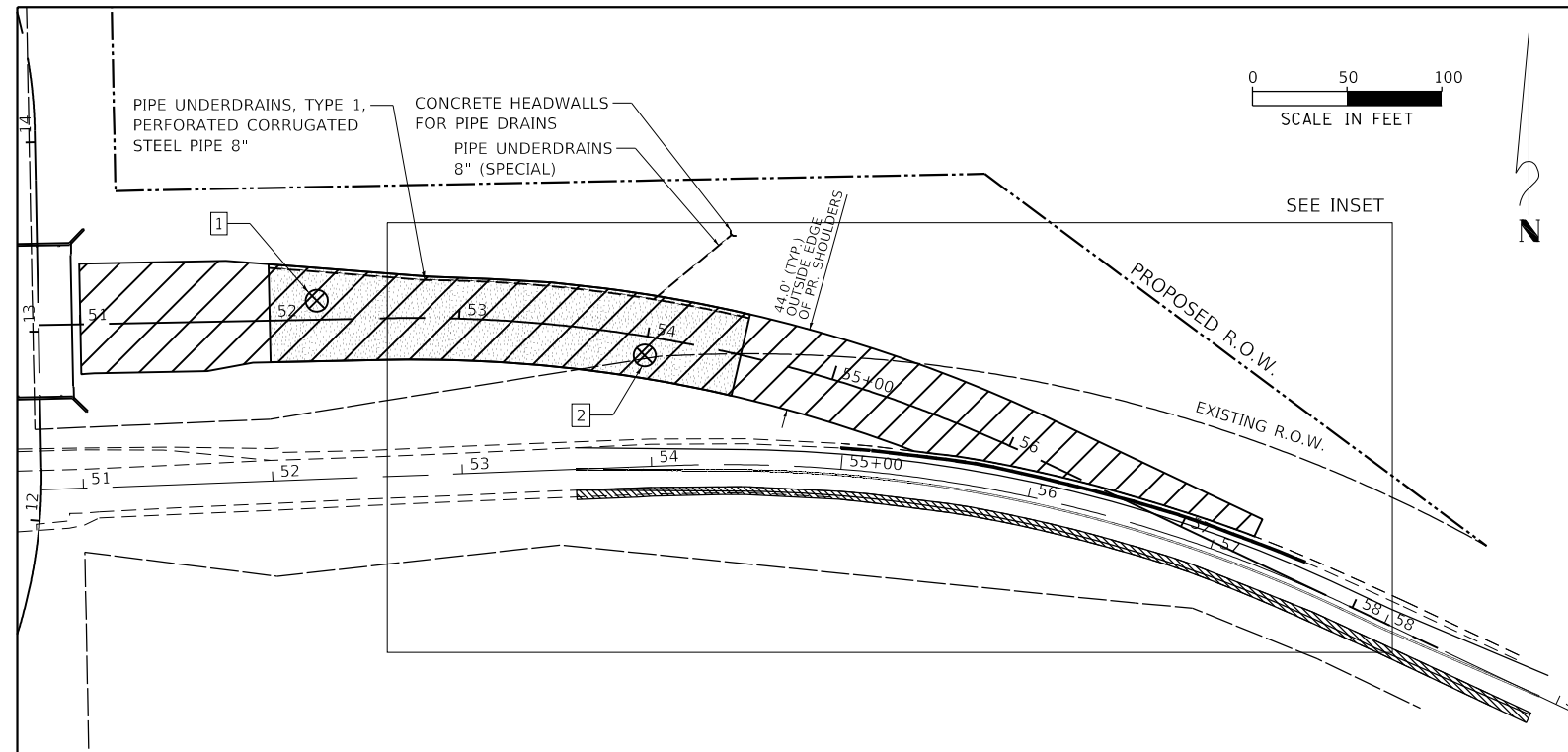
Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and REVISIONS.

PUTNAM COUNTY HIGHWAY DEPARTMENT

SOIL BORING LOGS STRUCTURE NO. 078-3118

SHEET NO. 5 OF 5 SHEETS

Table with columns for F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.

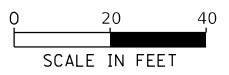
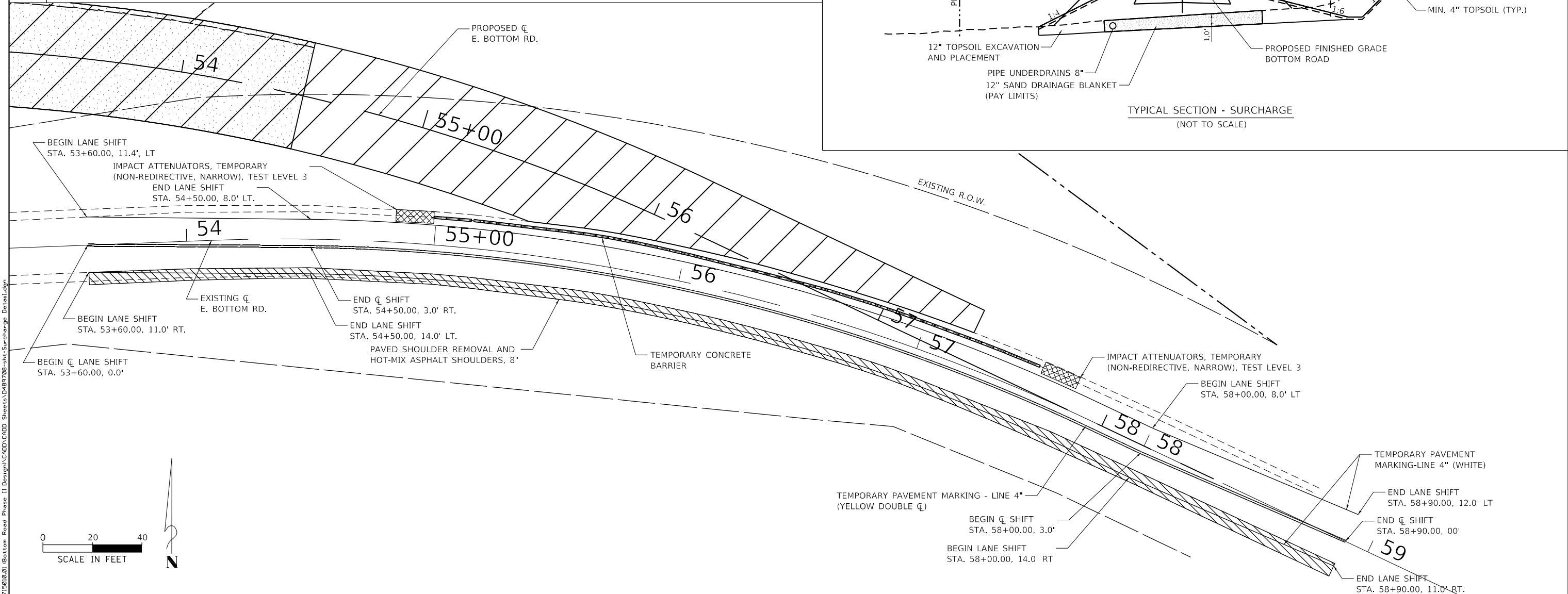
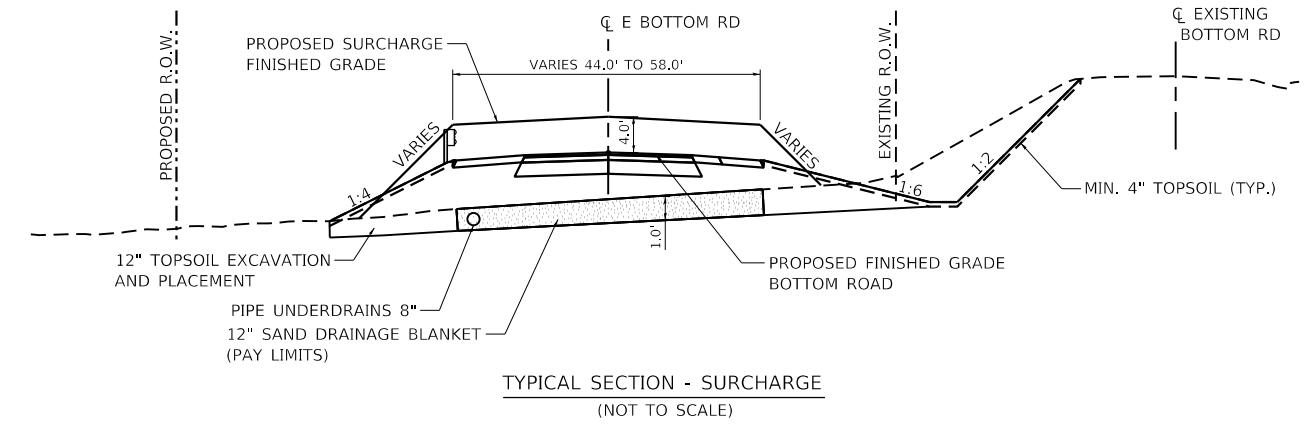


SURCHARGE LEGEND

- SURCHARGE (PAY LIMITS)
- SETTLEMENT PLATFORMS
- 12" SAND DRAINAGE BLANKET (PAY LIMITS)

PLATE ID	STATION	OFFSET	INITIAL GROUND ELEVATION
1	52+25.00	10.00 LT	
2	54+00.00	10.00 RT	

- SUGGESTED SEQUENCE OF CONSTRUCTION**
- Upgrade existing shoulder on the south side of the existing east leg of Bottom Road and set-up shifted traffic lanes with temporary concrete barrier.
 - Construct proposed embankment with surcharge.
 - Construct proposed concrete box culvert.
 - Construct proposed downstream channel.
 - Divert flow from existing channel through proposed box culvert and proposed downstream channel.
 - Remove Surcharge and construct proposed composite pavement.
 - Build HMA connector under stage construction.
 - Complete west leg of Bottom Road.
 - Complete IL 89 shoulder and striping improvements.
 - Shift all traffic to the proposed new alignment of the East Leg of Bottom Road.
 - Remove existing roadway and bridge.
 - Complete remaining earthwork, proposed upstream channel and entrance to Spring Valley Boat Club.



FILE NAME: S:\237\2019\13-00025-00-01\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-ht-Surcharge_Detail.dgn



USER NAME = bmwagehoft	DESIGNED - BMW/JDS	REVISED -
PLOT SCALE = 100.0000' / 1\"/>		
PLOT DATE = 4/5/2019	DATE - 04/05/2019	REVISED -

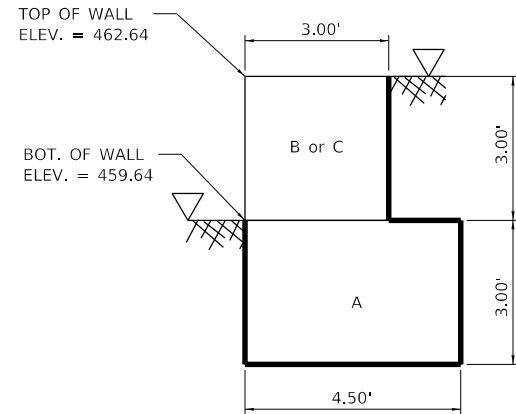
**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
SURCHARGE LIMITS DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

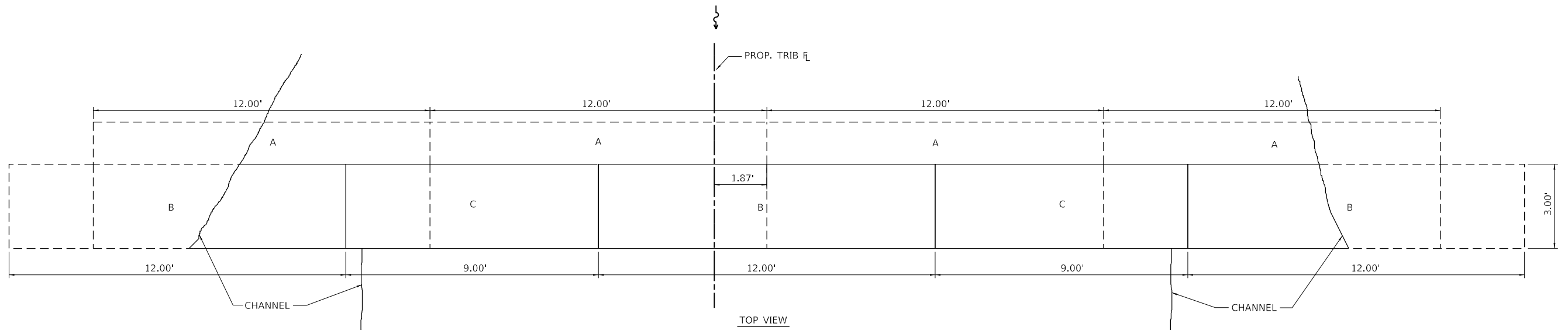
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	28

CONTRACT NO. 89708

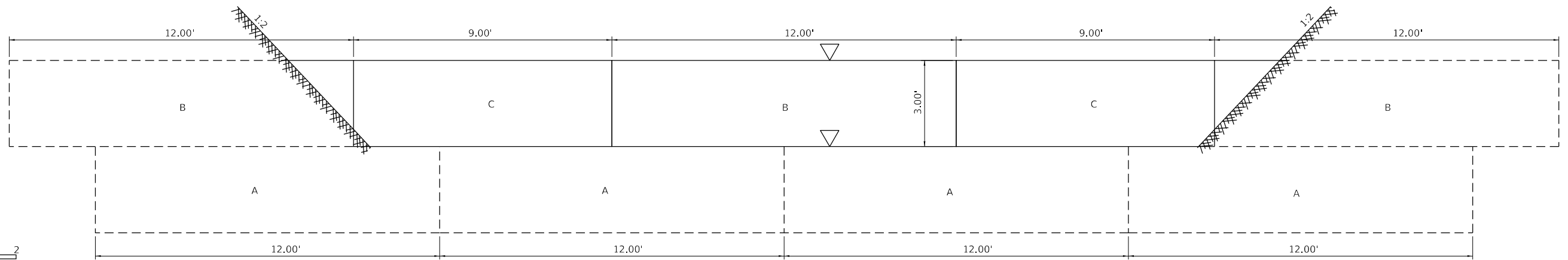


SIDE VIEW

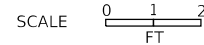
28400100 GABIONS						
BLOCK SIZE						
CODE	LENGTH	WIDTH	DEPTH	CU YDS	QUANTITY	TOTAL CU YDS
A	12'-0"	4'-6"	3'-0"	6.00	4	24.00
B	12'-0"	3'-0"	3'-0"	4.00	3	12.00
C	9'-0"	3'-0"	3'-0"	3.00	2	6.00
GABIONS TOTAL:						42.00



TOP VIEW



FRONT VIEW



LEGEND
 FILTER FABRIC

NOTE:
 1. PLACE FILTER FABRIC ALONG ALL OUTER SURFACES OF STRUCTURE THAT CONTACT GROUND

FILE NAME: S:\237\2019\237150101\Bottom_Road_Phase_II_Design\CADD_Sheets\0489708-ht-gabion_detail.dgn

MAURER-STUTZ
 ENGINEERS SURVEYORS

USER NAME = bmwagehof	DESIGNED - BMW/JDS	REVISED -
PLOT SCALE = 4.0000' / in.	DRAWN - BMW/CAD/WLL	REVISED -
PLOT DATE = 4/5/2019	CHECKED - GBM	REVISED -
	DATE - 04/05/2019	REVISED -

**PUTNAM COUNTY
 HIGHWAY DEPARTMENT**

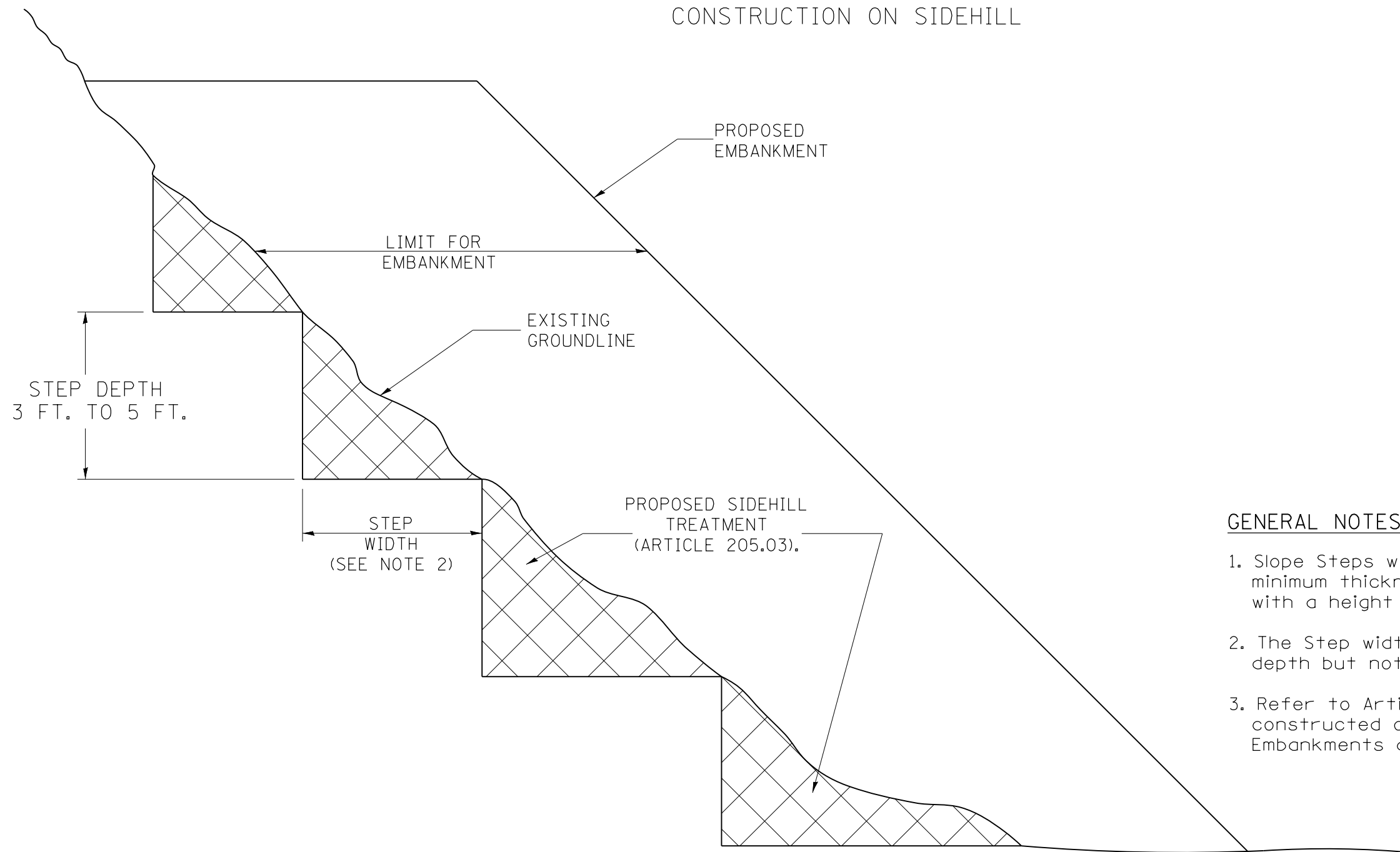
**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENT
 GABION DROP STRUCTURE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	29
			CONTRACT NO. 89708	

SLOPE STEPS DETAIL

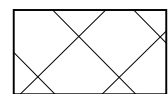
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

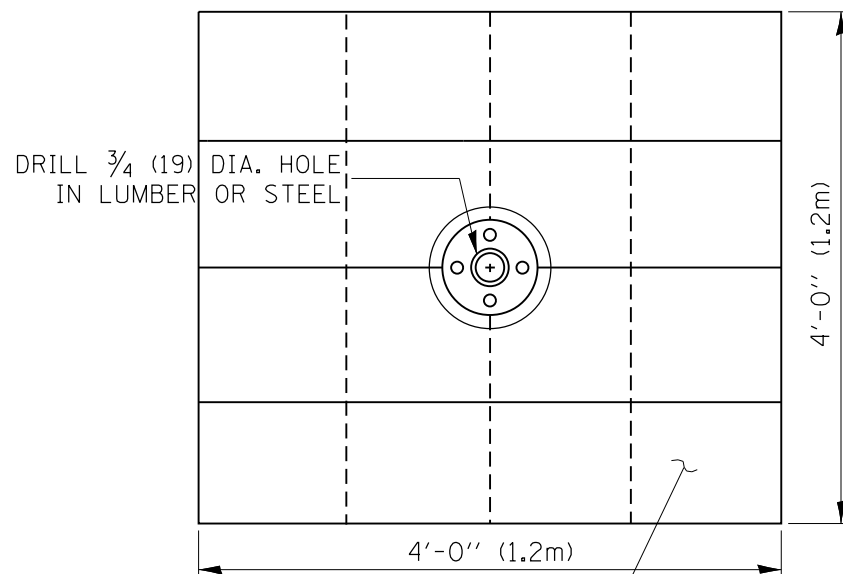
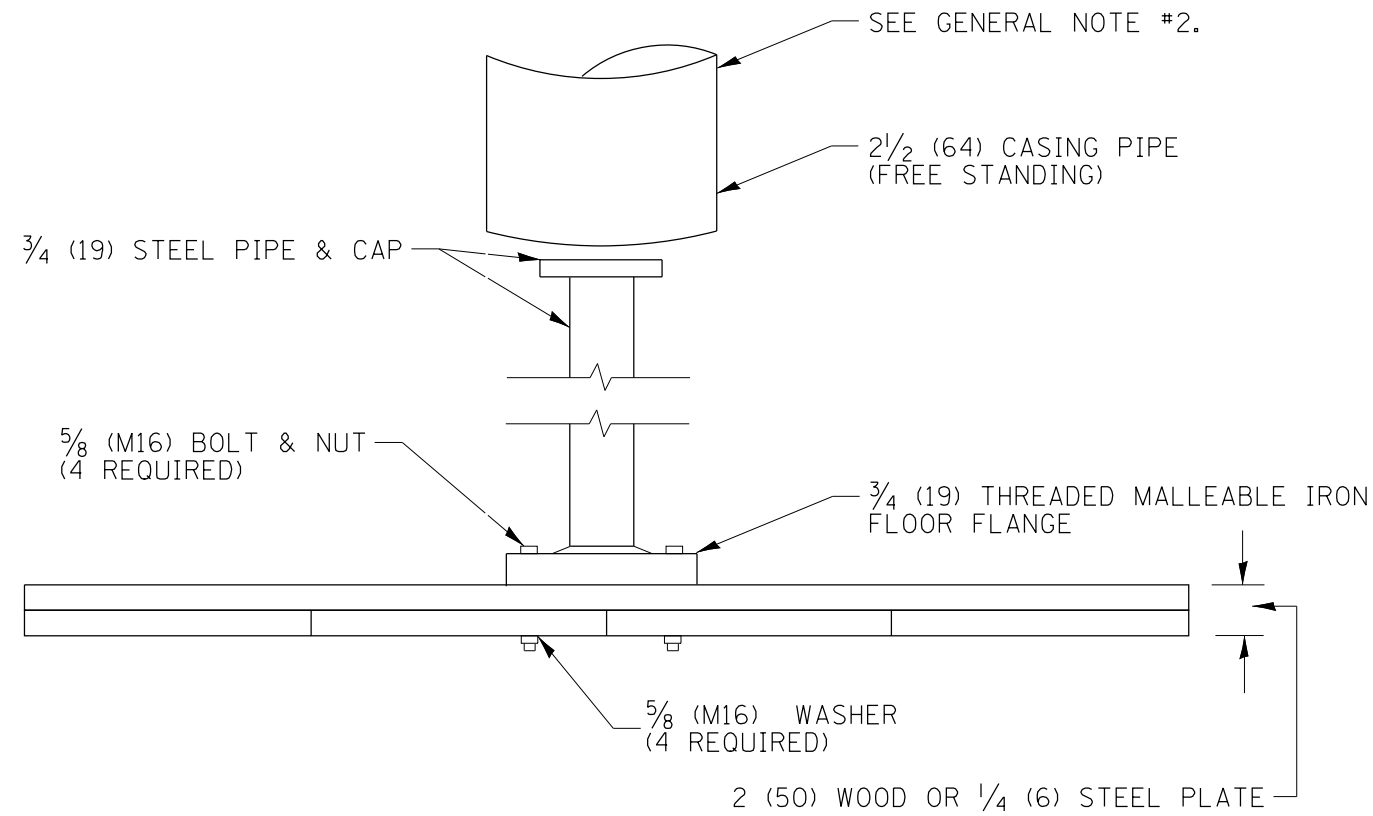
REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.						13-00025-00-BR	PUTNAM	56	30	
5-30-18	MINOR CORRECTION	R.D.						CONTRACT NO.				
							NOT TO SCALE	CADD STD. 205001-D4		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



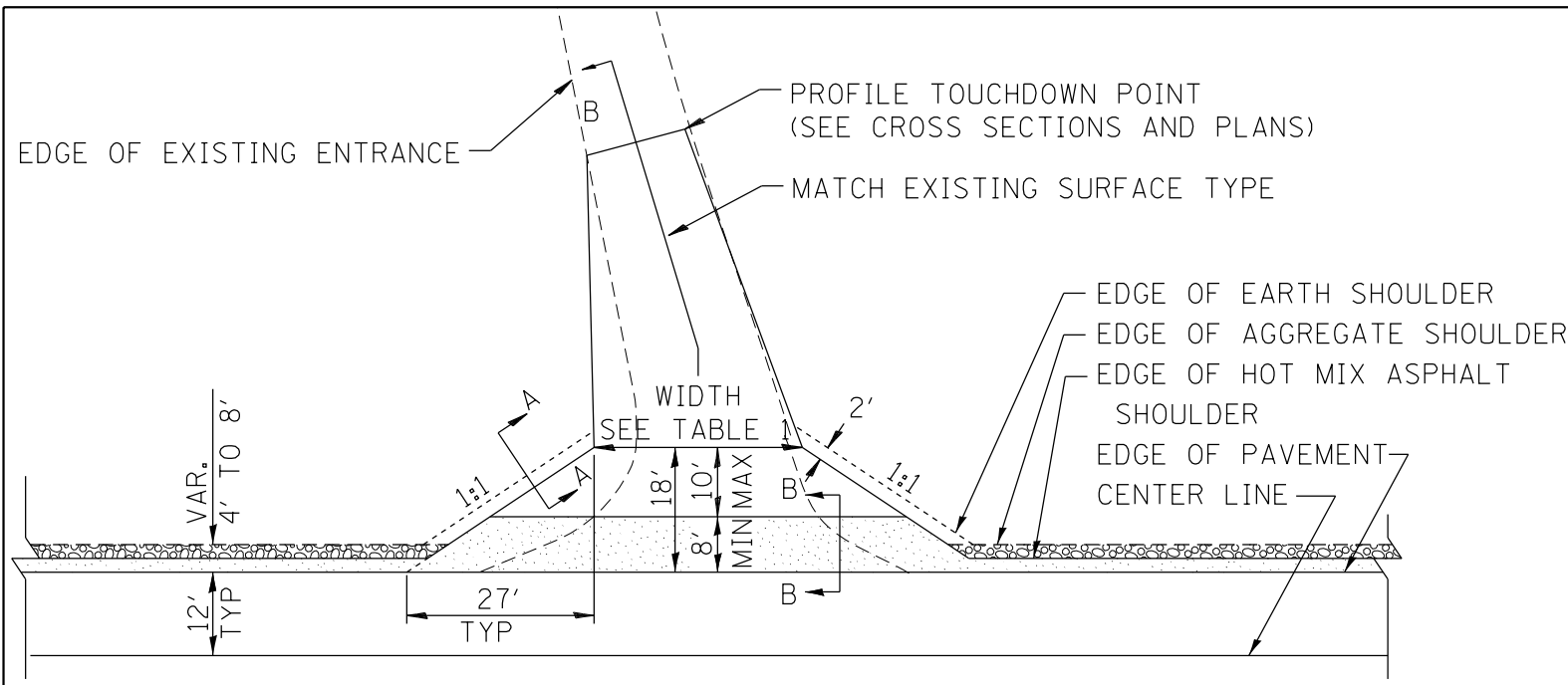
SOUND LUMBER - 1(25) x 12(300) NAILED TOGETHER OR 1/4(6) THICK BY 4'(1.2m) SQUARE STEEL PLATE

GENERAL NOTES:

1. Settlement Platform shall be in accordance with the applicable portions of Article 204.06 of the Standard Specifications.
2. Do Not install casing pipe until after one section of 3/4"(19 mm) has been covered with earth. The casing pipe should not rest on platform.

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

1-1-97	RENUM. L-5.04, NEW REVISION BOX, REVISED NOTES, REVISED TITLE BOX	T.P.	8-23-01	UPDATE FOR NEW SPEC.	M.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SETTLEMENT PLATFORM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4-14-99	ADDED "CASING PIPE" REQUIREMENT	J.A.	10-16-06	REVISED TO 2007 SPEC.	M.A.			13-00025-00-BR	PUTNAM	56	31	
5-19-99	CORRECTIONS TO CASING PIPE	J.A.						CONTRACT NO.				
							NOT TO SCALE	CADD STD. 205101-D4		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



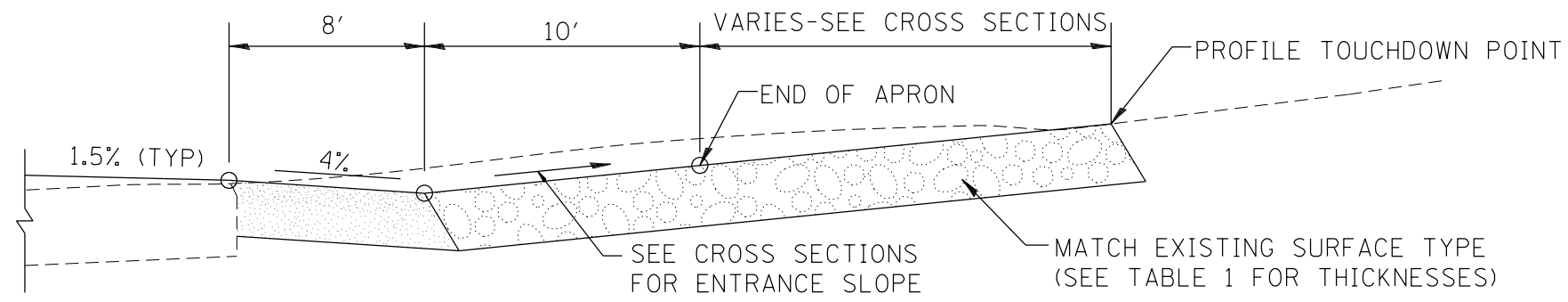
HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

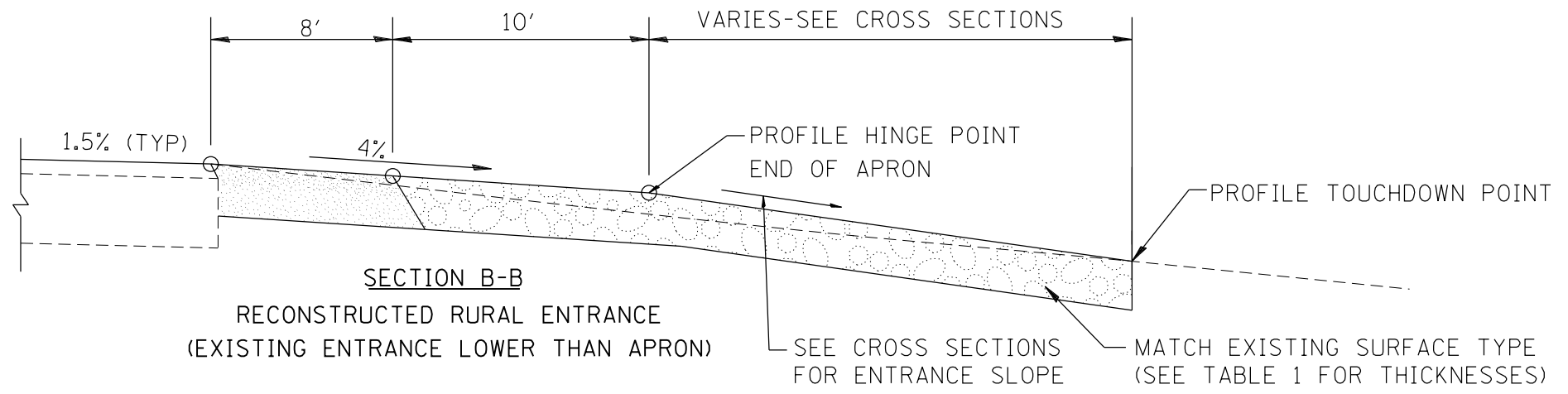
COMMERCIAL / FARM-RELATED ENTRANCE

TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max., 24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5				
MAX. GRADE (G)	12%		12%		10%

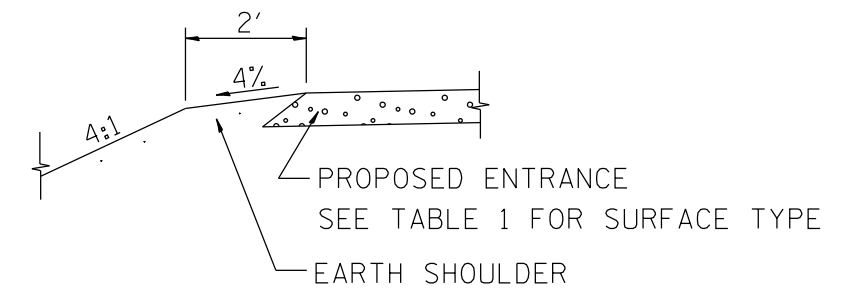
SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—
PCC DRIVEWAY PAVEMENT	6"	—	7"



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.	9-15-15	UPDATED TABLE 1	R.D.
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR	2-29-16	MINOR CORRECTIONS	R.D.
09-15-05	RADIUS FOR FLARE	M.M.A.	5-9-17	CHANGED TAPER RATE	R.D.

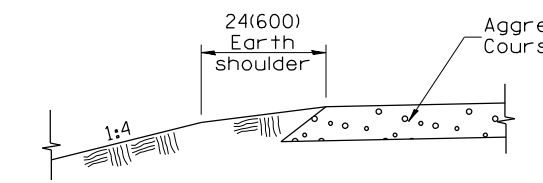
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

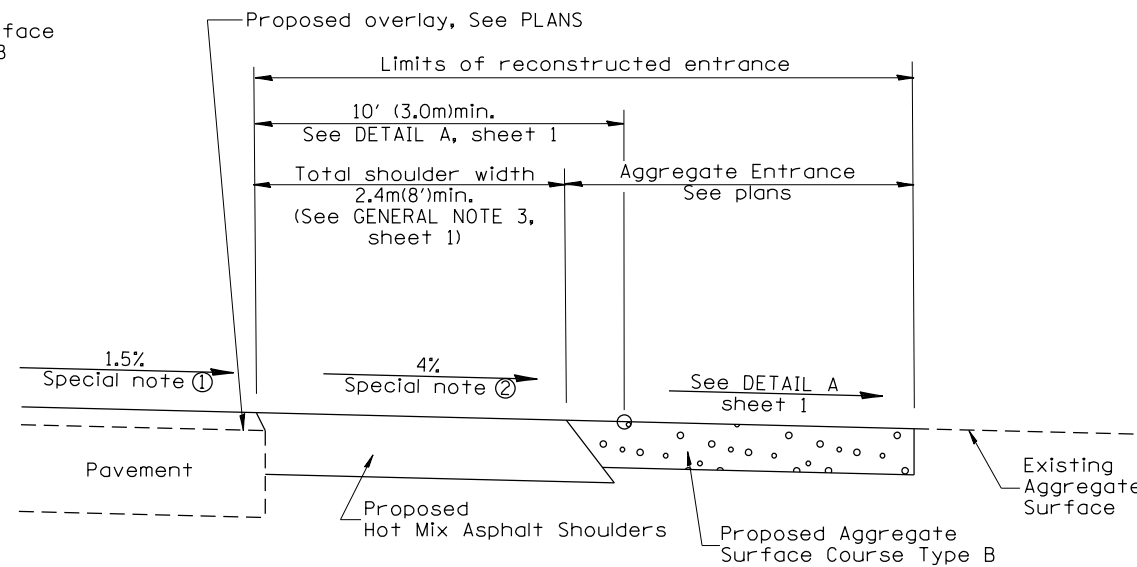
RURAL ENTRANCES FOR "3R" PROJECTS

SHT. 1 OF 2
CADD STD. 406301-D4

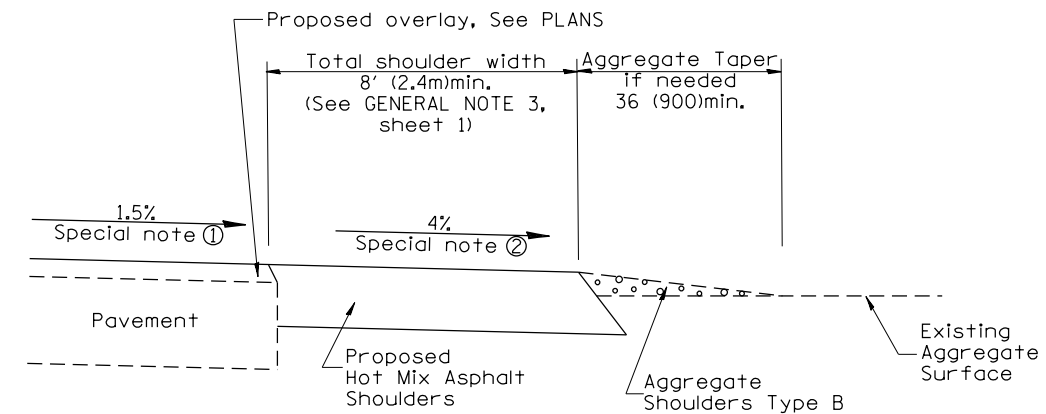
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00025-00-BR	PUTNAM	56	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO.	



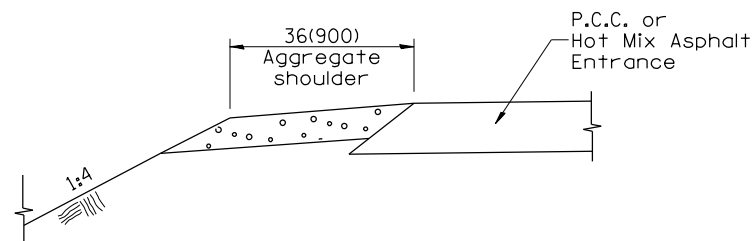
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



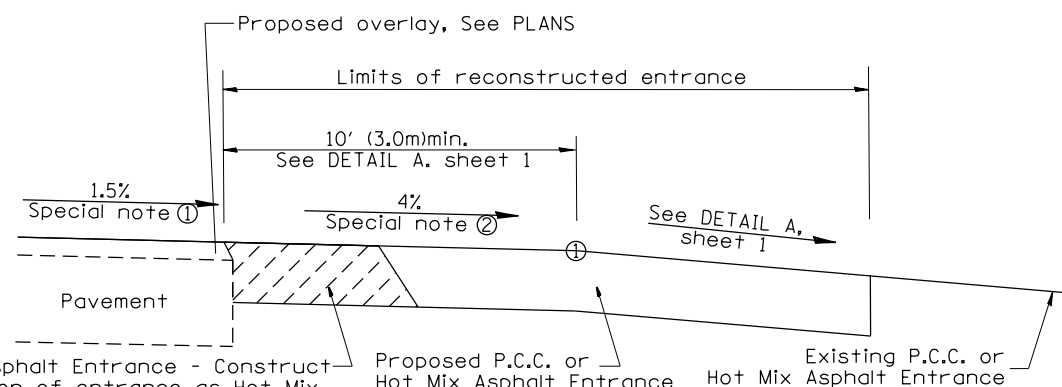
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



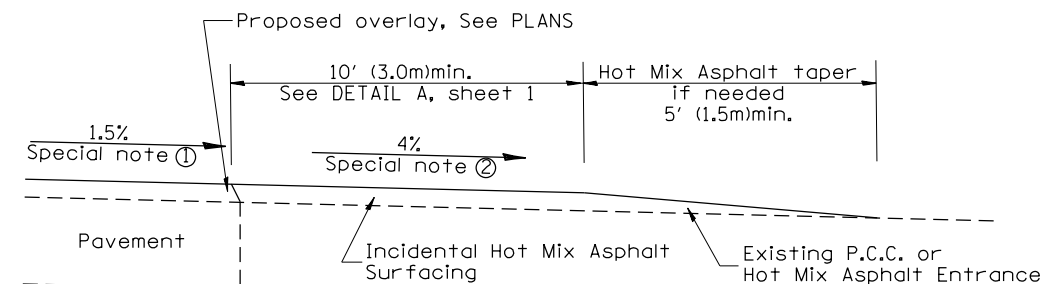
SECTION B-B
EXISTING AGGREGATE ENTRANCE



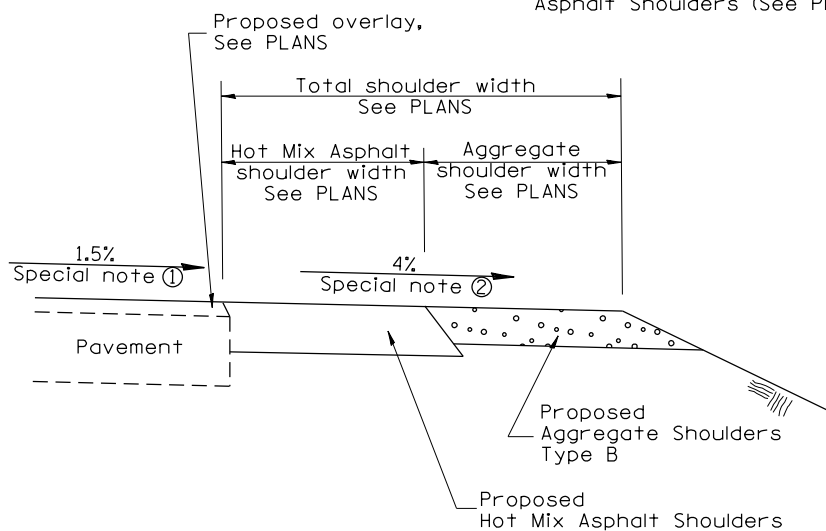
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E
MAINLINE SHOULDER TREATMENT

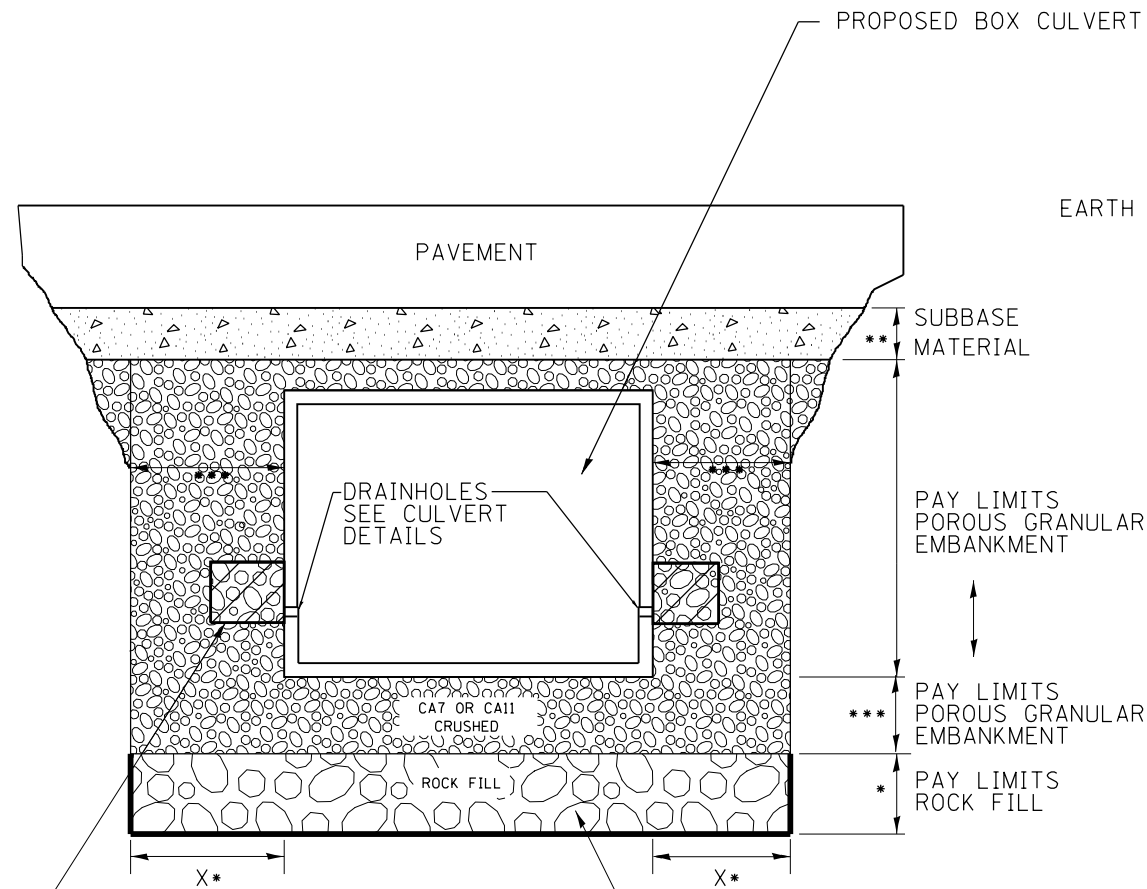
SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RURAL ENTRANCES FOR "3R" PROJECTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									13-00025-00-BR	PUTNAM	56	33
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 406301-D4				CONTRACT NO.				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ROADWAY PROFILE VIEW

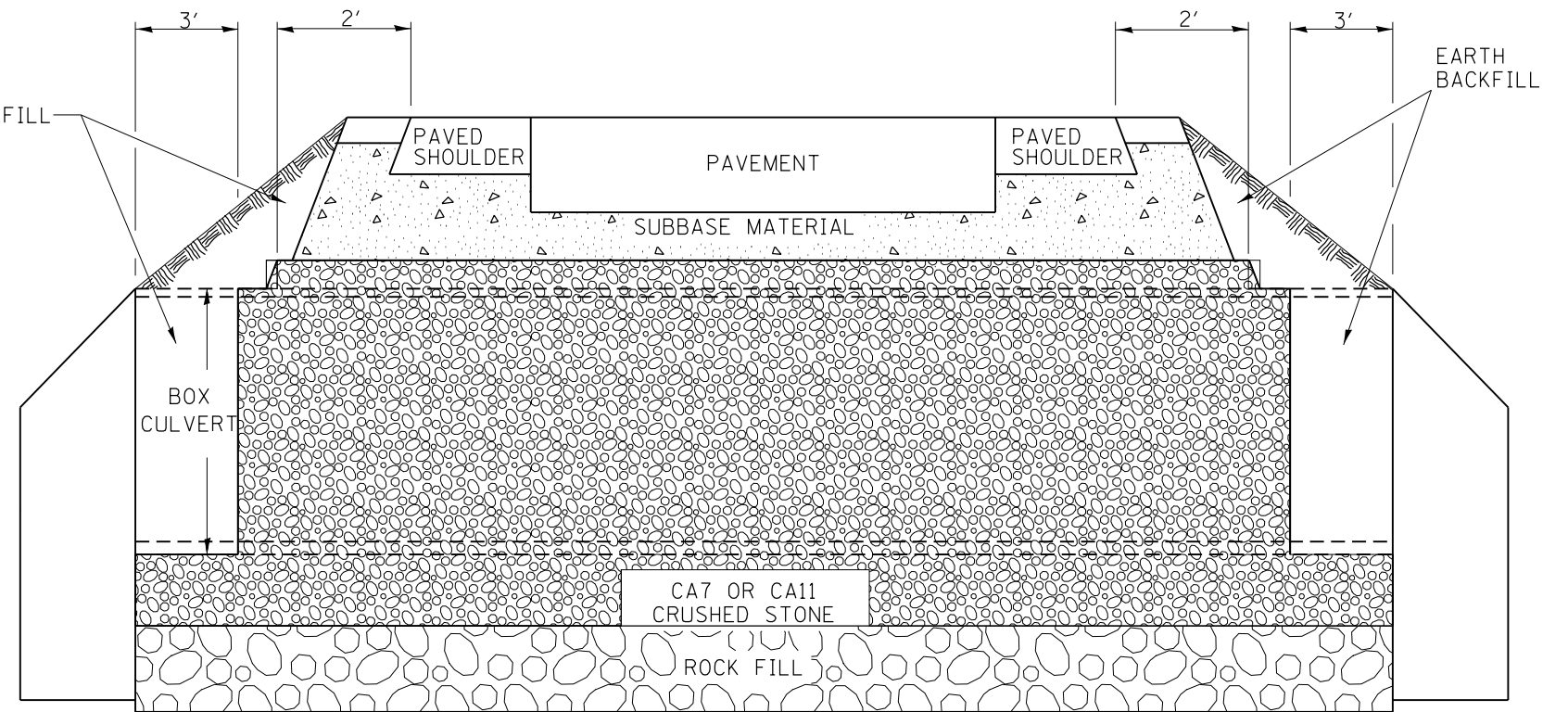


2' x 2' x 2' DEPOSIT OF CA 5, 7, OR 11 IN FABRIC ENVELOPE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS (TYPICAL)

(IF UNDERCUT IS REQUIRED) PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCK FILL WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. PAID FOR BY RESPECTIVE PAY ITEMS.

- * IF APPLICABLE, SEE UNDERCUT DETAIL FOR DEPTHS AND WIDTHS. IF THERE IS NO UNDERCUT, X = 2 FEET AND SEE NOTE 3 THIS SHEET.
- ** SUBBASE SHALL BE 6" MINIMUM LAYER OF CA6 CRUSHED STONE OR OTHER MATERIAL AS SPECIFIED IN THE PLANS.
- *** PAY LIMITS OF POROUS GRANULAR EMBANKMENT SHALL BE 2 FEET UNLESS OTHERWISE SHOWN IN THE PLANS.

ROADWAY CROSS SECTION VIEW

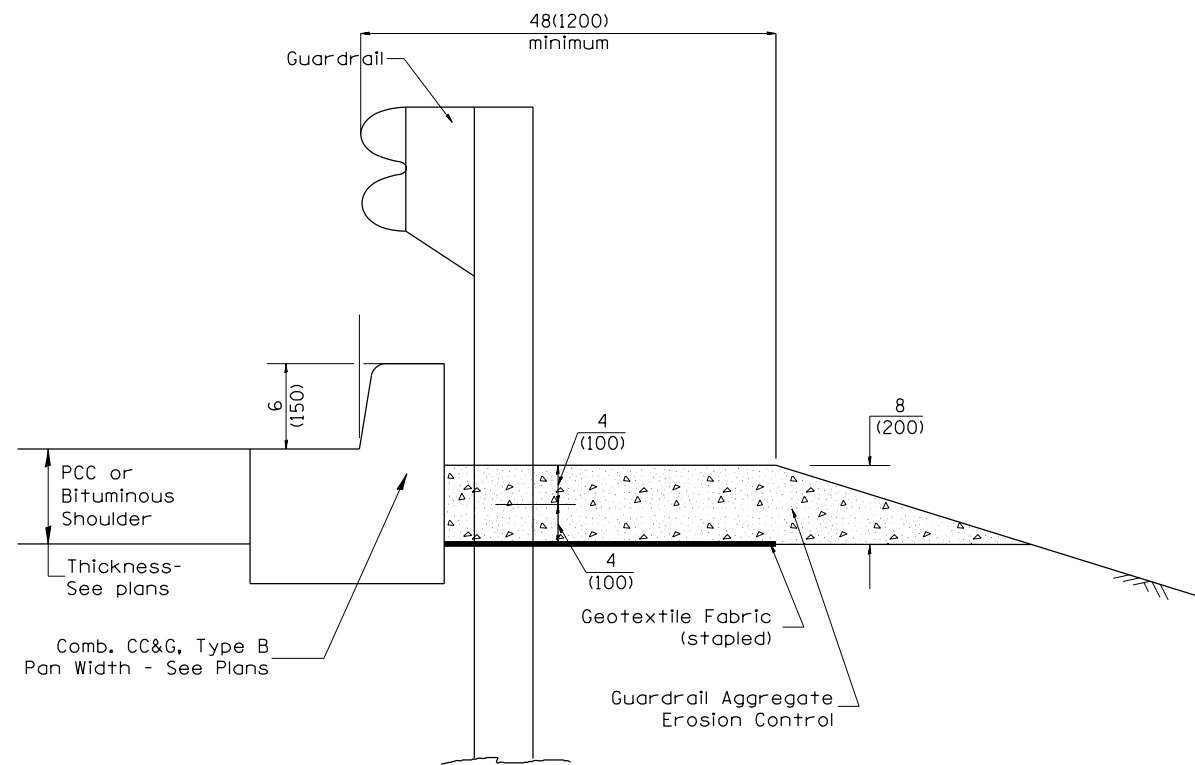


NOTES:

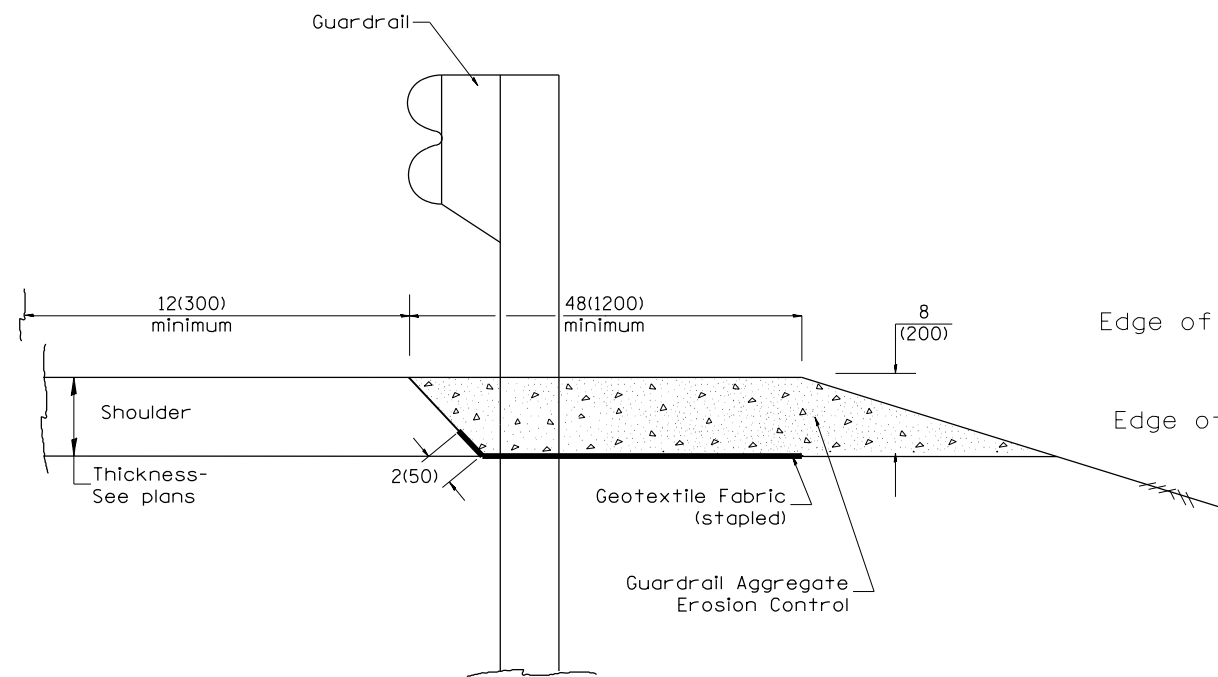
1. EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS.
3. IF NO UNDERCUT IS REQUIRED, A 6" MINIMUM LAYER OF POROUS GRANULAR EMBANKMENT SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF BOX CULVERT.

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

6-12-12	CREATED NEW STD.	R.D.												
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS				
										NOT TO SCALE				
										CADD STD. 540000-D4				
										F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 13-00025-00-BR PUTNAM 56 34 CONTRACT NO. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



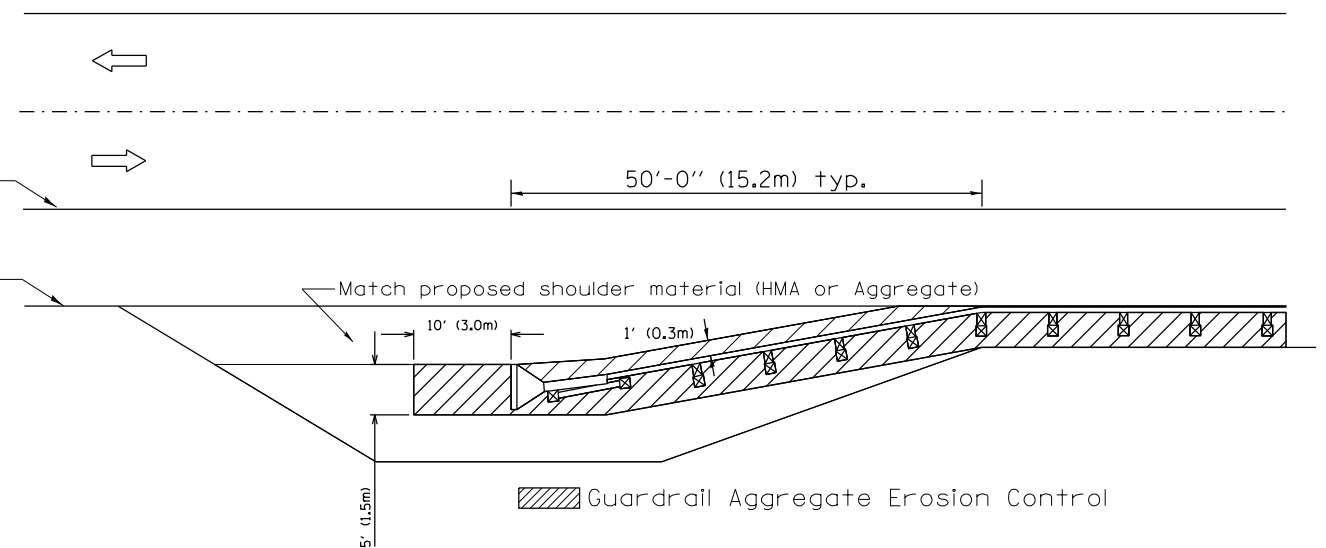
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



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

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.			
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

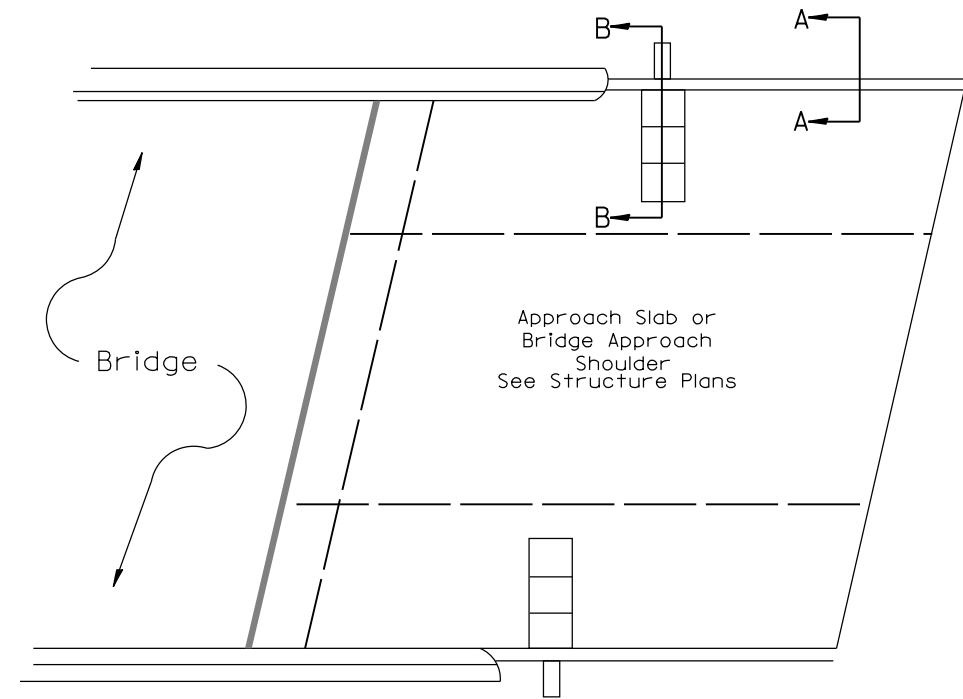
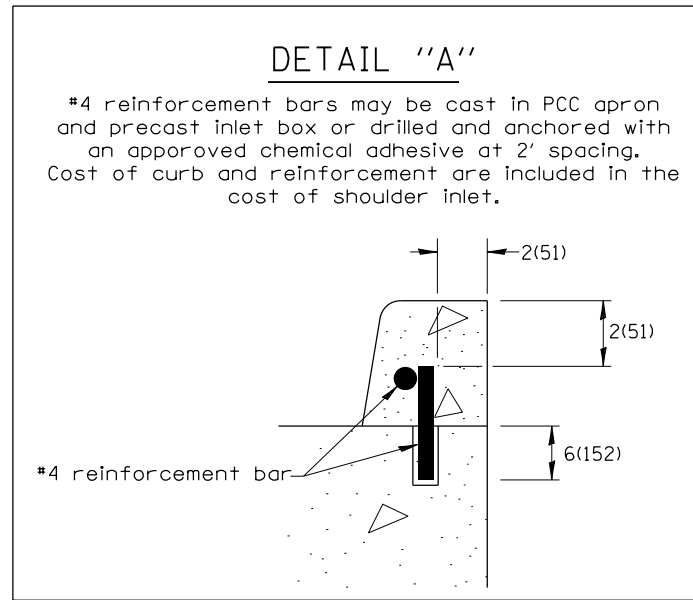
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

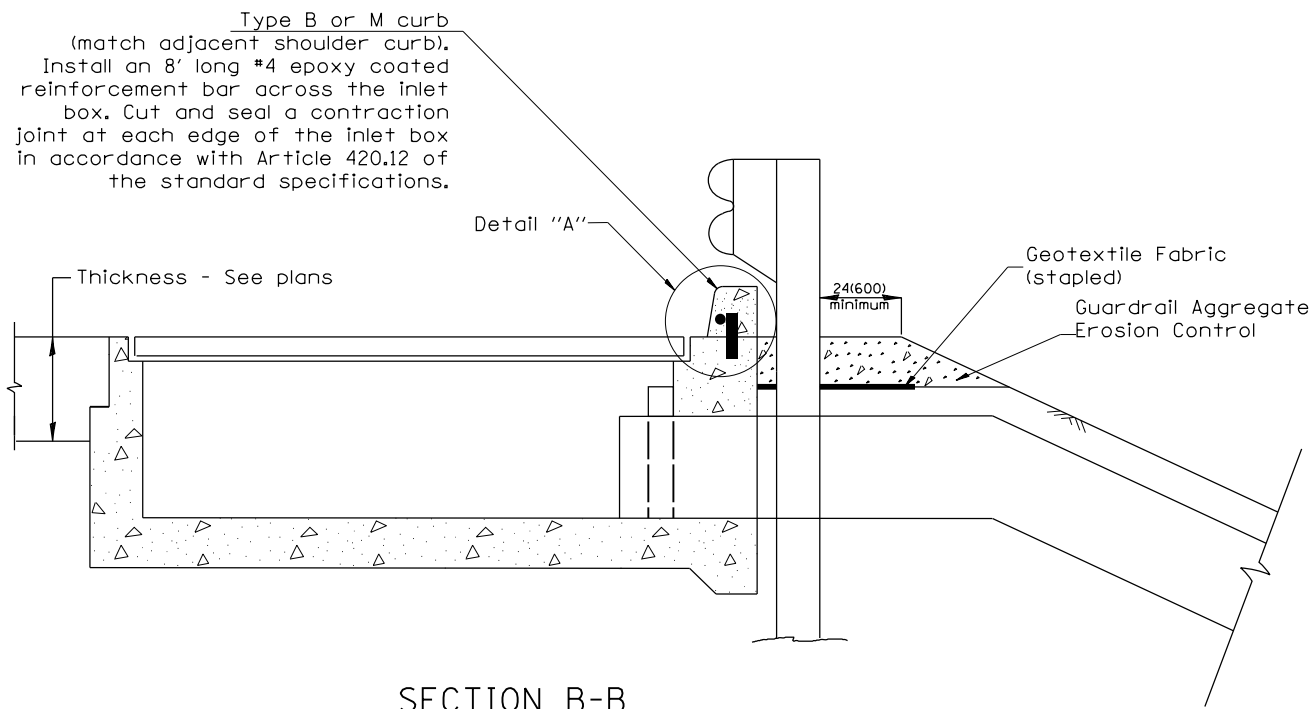
GUARDRAIL EROSION CONTROL TREATMENTS

SHT. 1 OF 2
CADD STD. 630101-D4

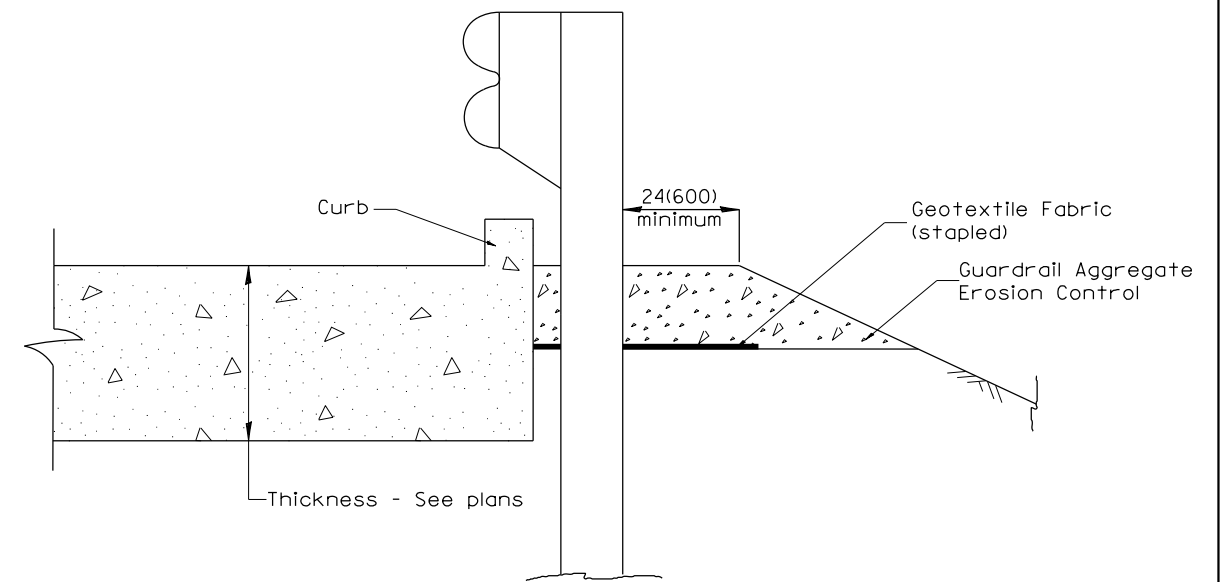
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00025-00-BR	PUTNAM	56	35
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



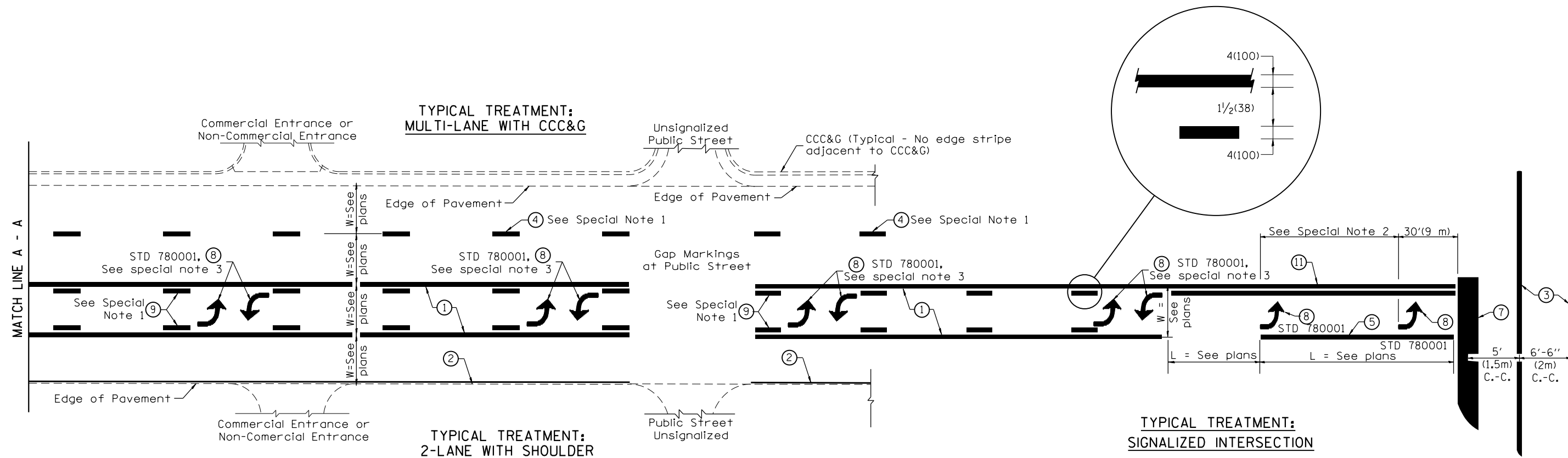
SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									13-00025-00-BR	PUTNAM	56	36
								CONTRACT NO.				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 630101-D4



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
 - Through Arrow= 14.8 sq. ft.
 - Large Left or Right Arrow= 21.9 sq. ft.
 - 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
 - Wrong Way Arrow= 29.5 sq. ft.
 - Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

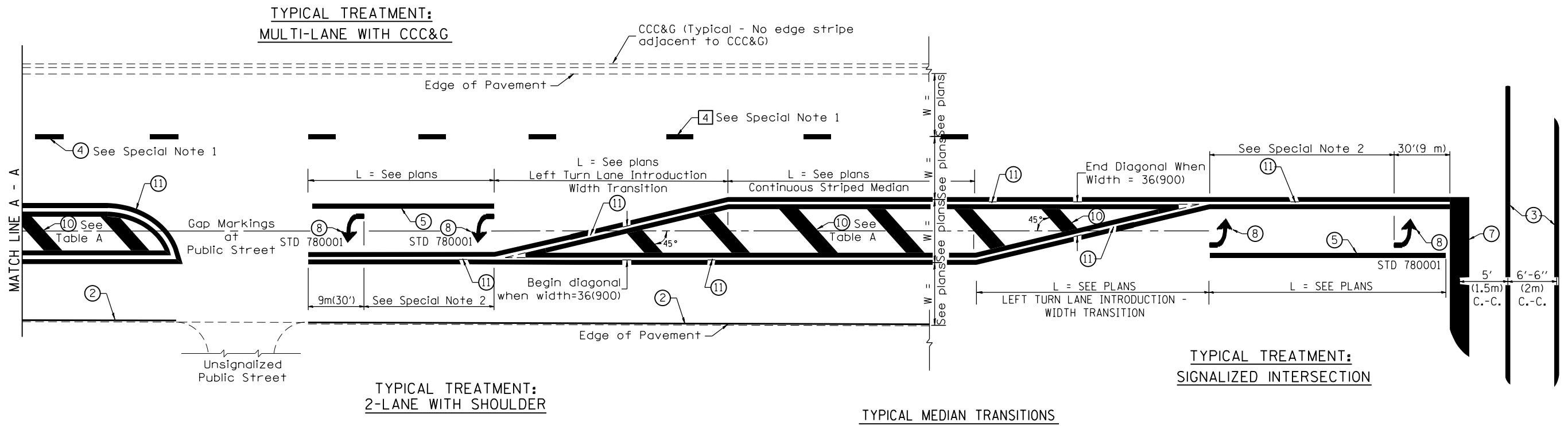
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

SHT. 1 OF 2
CADD STD. 780001-D4

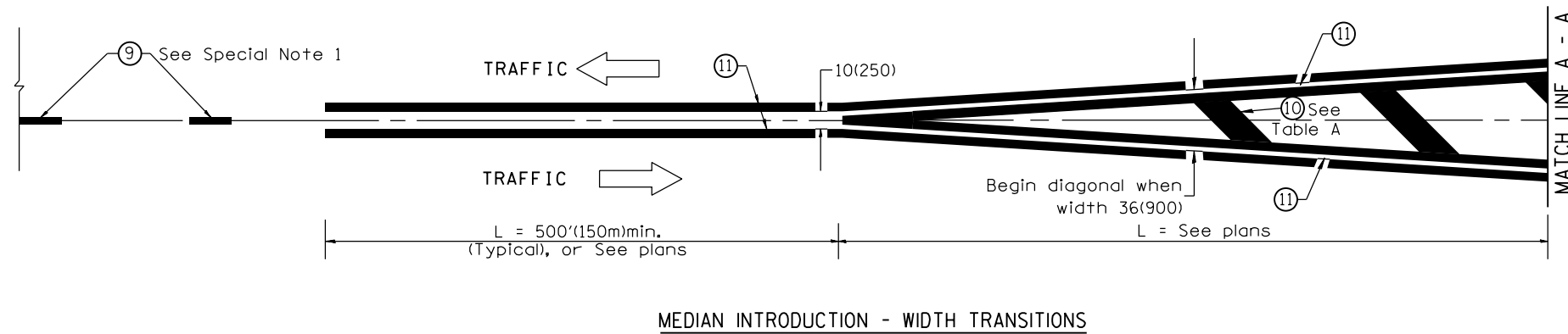
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	13-00025-00-BR	PUTNAM	56	37
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)

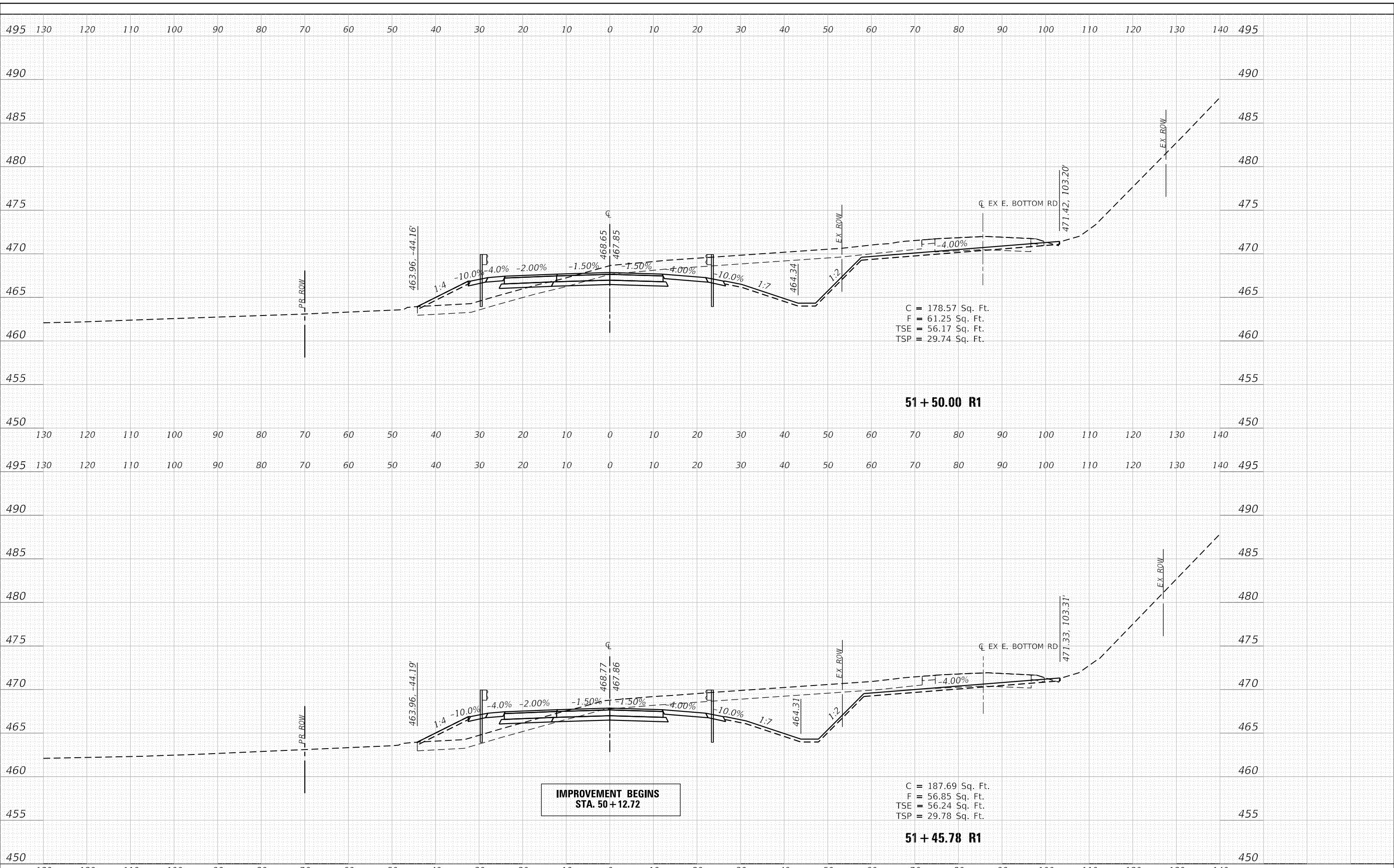


All dimensions are in inches (millimeters) unless otherwise noted.

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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS	
NOTE BOOK	
NO.	
FINL	
SURVEY	
NO.	

DATE	
BY	
SURVEYED	
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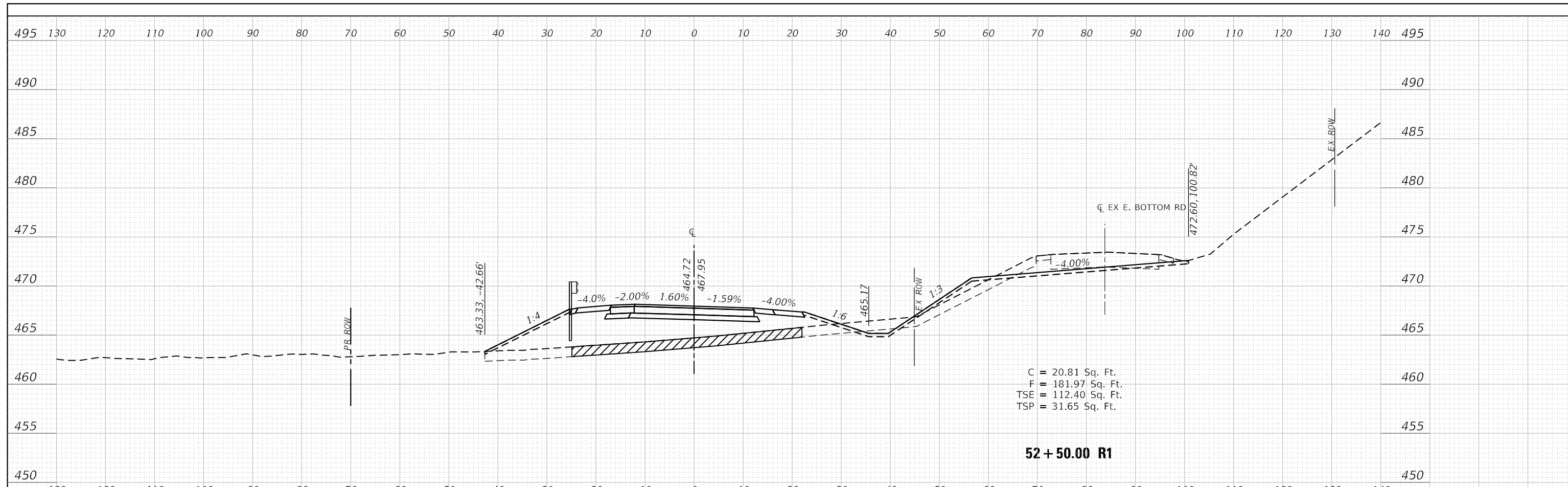
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IMPROVEMENT BEGINS
STA. 50+12.72

130	120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140								
MAURER-STUTZ ENGINEERS SURVEYORS														USER NAME = bmwagehoft DESIGNED - BMW/JDS DRAWN - BMW/CAD/WLL CHECKED - GBM PLOT DATE = 4/5/2019 2:12:19 PM				DESIGNED - DRAWN - CHECKED - DATE - 04/05/2019				PUTNAM COUNTY HIGHWAY DEPARTMENT				BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS EAST BOTTOM ROAD CROSS SECTIONS				SCALE: SHEET 1 OF 12 SHEETS STA. 51+45.78 R1 TO STA. 51+50.00 R1		F.A.S. RTE. 1254 SECTION 13-00025-00-BR COUNTY PUTNAM TOTAL SHEETS 56 SHEET NO. 39		CONTRACT NO. 89708 ILLINOIS FED. AID PROJECT	

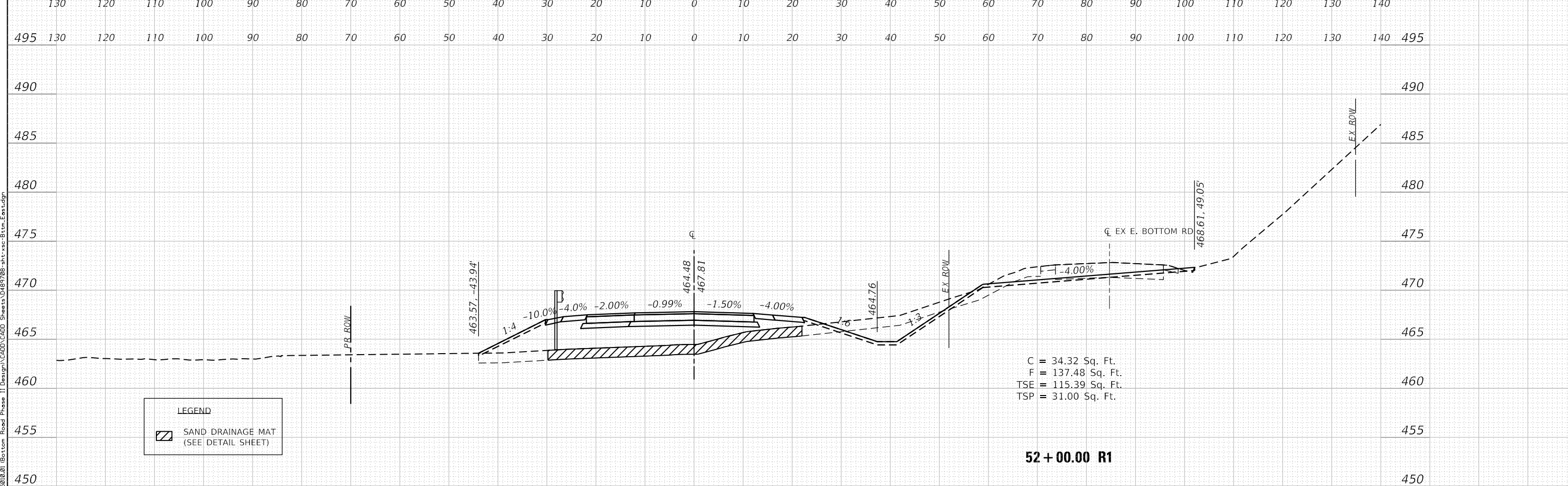
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NOTE BOOK	
AREAS CHECKED	



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 F = 181.97 Sq. Ft.
 TSE = 112.40 Sq. Ft.
 TSP = 31.65 Sq. Ft.

52 + 50.00 R1

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



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52 + 00.00 R1

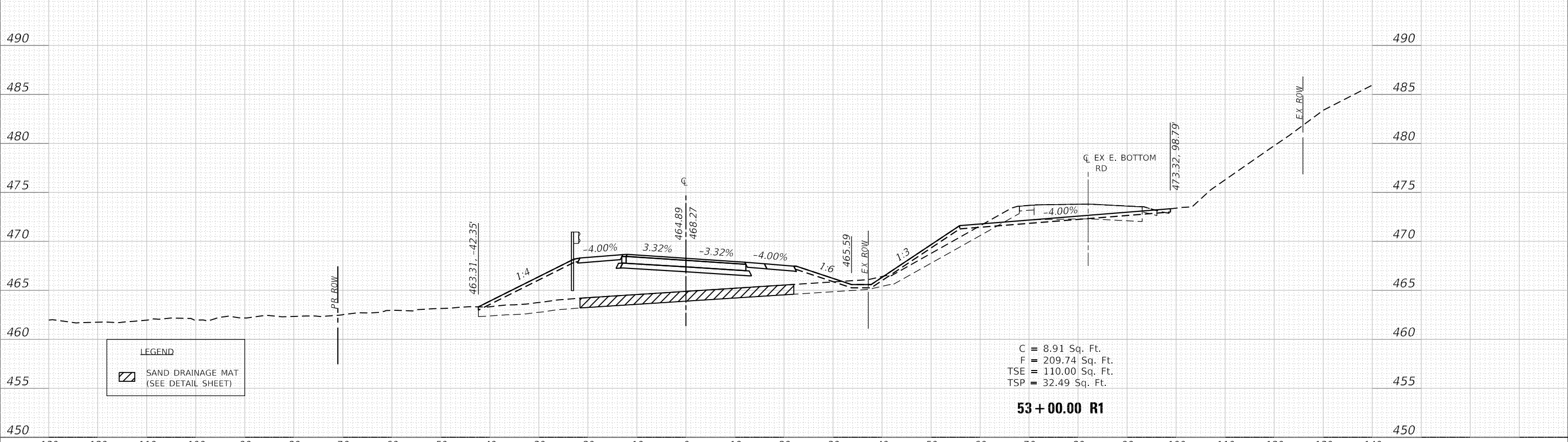
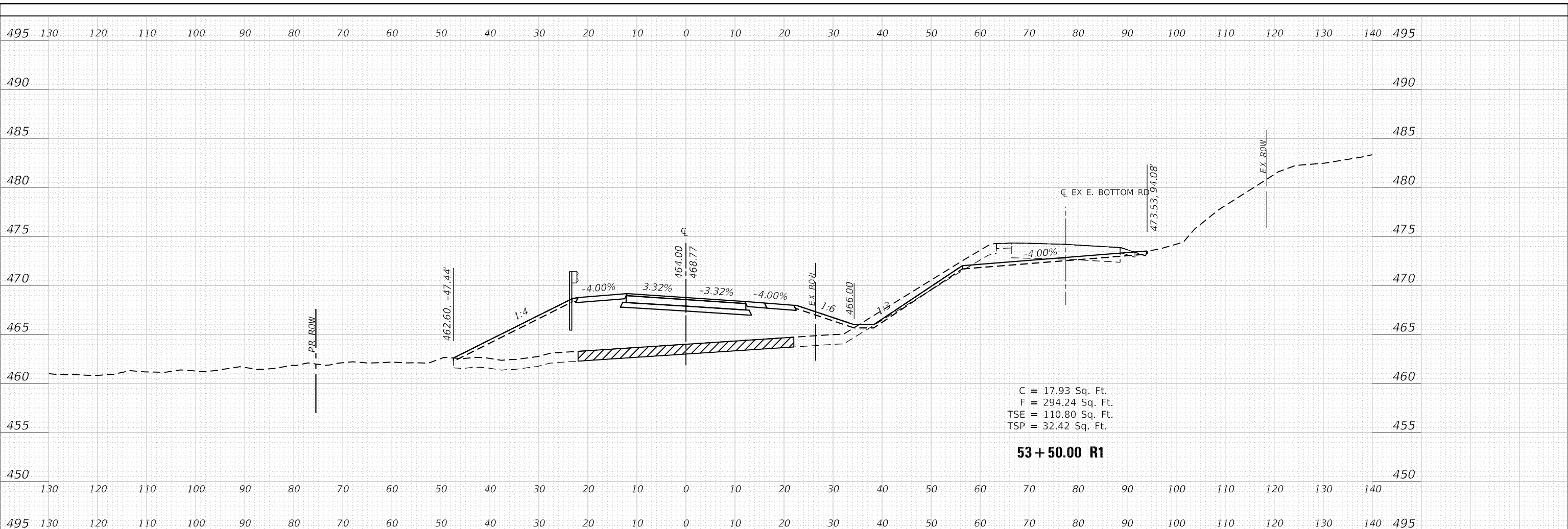
LEGEND
 SAND DRAINAGE MAT
 (SEE DETAIL SHEET)

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NOTE BOOK	
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NOTE BOOK	
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AREAS CHECKED	

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MAURER-STUTZ
ENGINEERS SURVEYORS

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	DATE - 04/05/2019	REVISED -

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
EAST BOTTOM ROAD CROSS SECTIONS**

SCALE: SHEET 3 OF 12 SHEETS STA.53+00.00 R1 TO STA. 53+50.00 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				

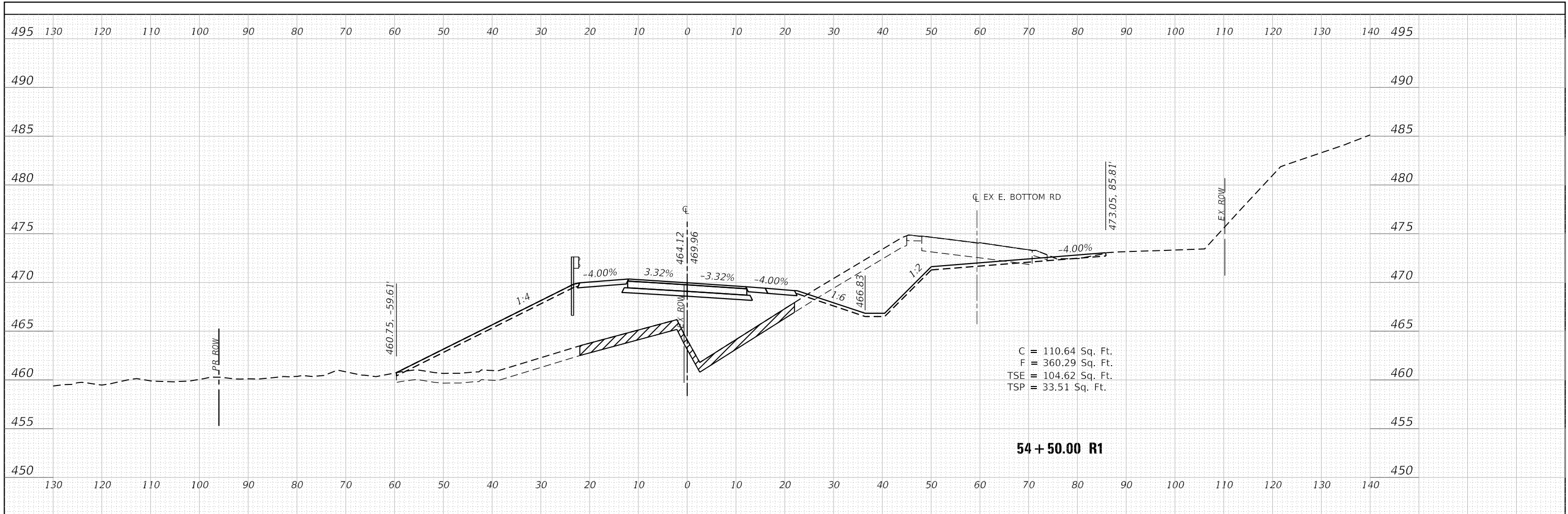
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NOTE BOOK	



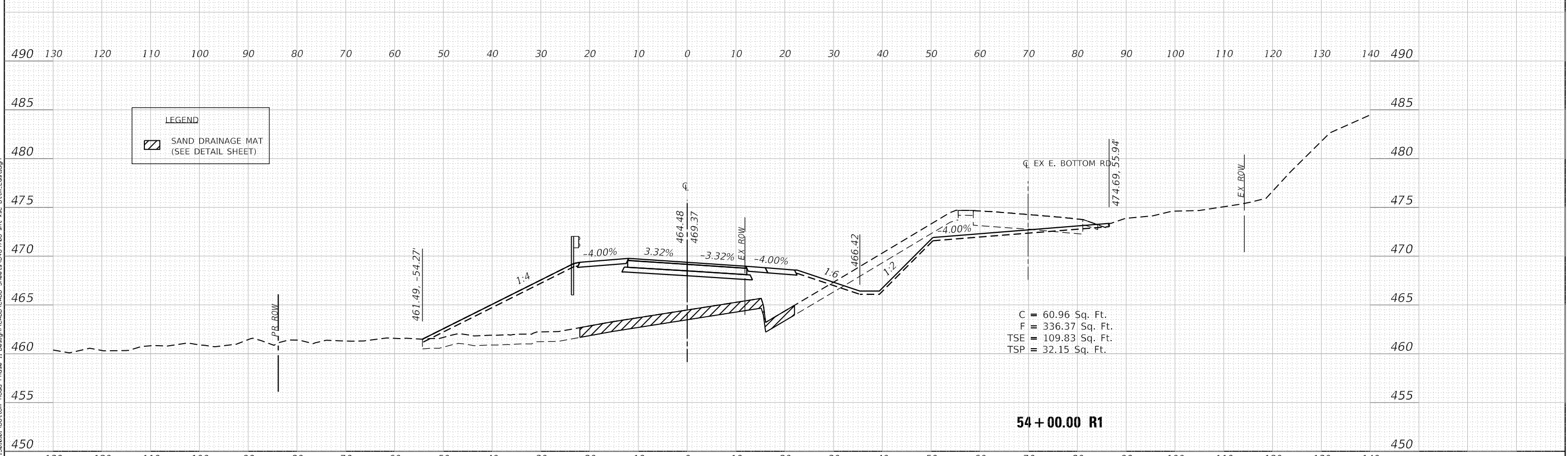
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TEMPLATE AREAS CHECKED	

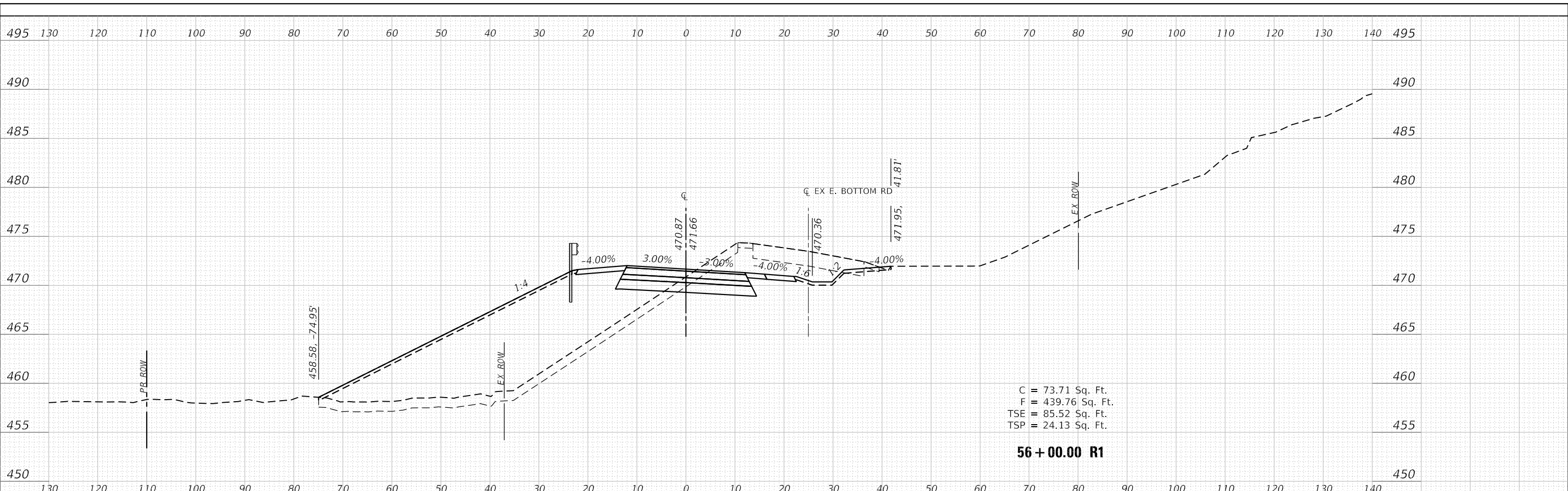
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ILLINOIS FED. AID PROJECT

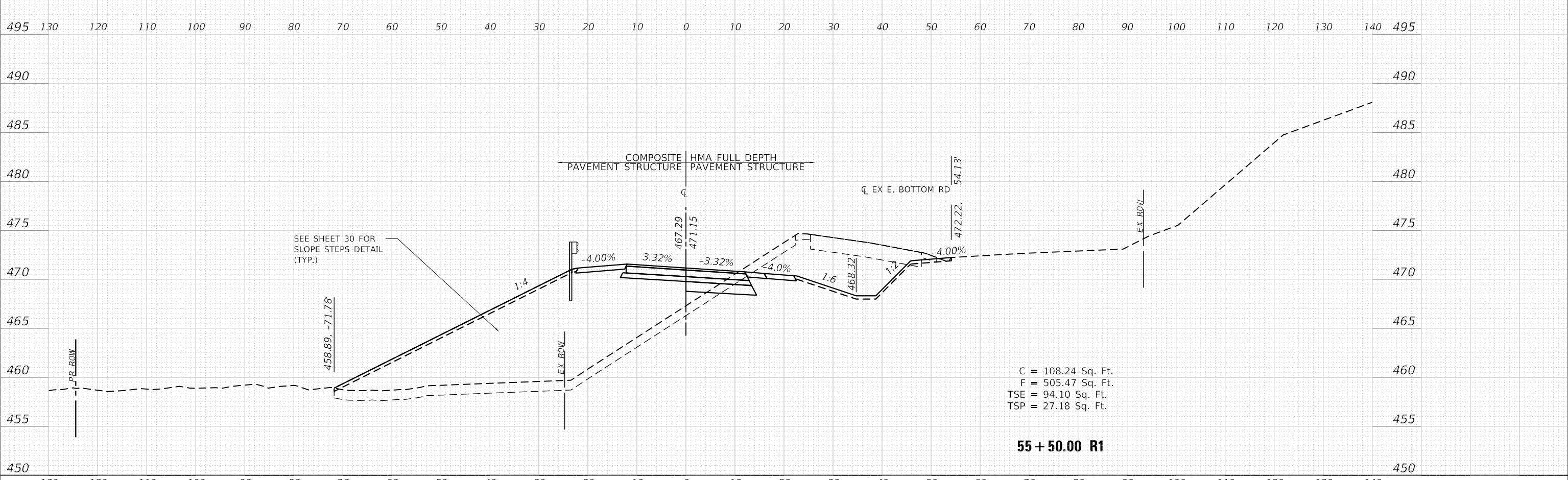
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 TSE = 85.52 Sq. Ft.
 TSP = 24.13 Sq. Ft.

56 + 00.00 R1

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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55 + 50.00 R1

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**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
EAST BOTTOM ROAD CROSS SECTIONS**

SCALE: SHEET 6 OF 12 SHEETS STA.55+00.00 R1 TO STA. 55+00.00 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	44
CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				

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AREAS CHECKED	
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NOTE BOOK	
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TEMPLATE	
AREAS CHECKED	
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NOTE BOOK	
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495 495

490 490

485 485

480 480

475 475

470 470

465 465

460 460

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56 + 50.00 R1

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PUTNAM COUNTY
HIGHWAY DEPARTMENT

BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
EAST BOTTOM ROAD CROSS SECTIONS

SCALE: SHEET 7 OF 12 SHEETS STA.55+50.00 R1 TO STA. 56+00.00 R1

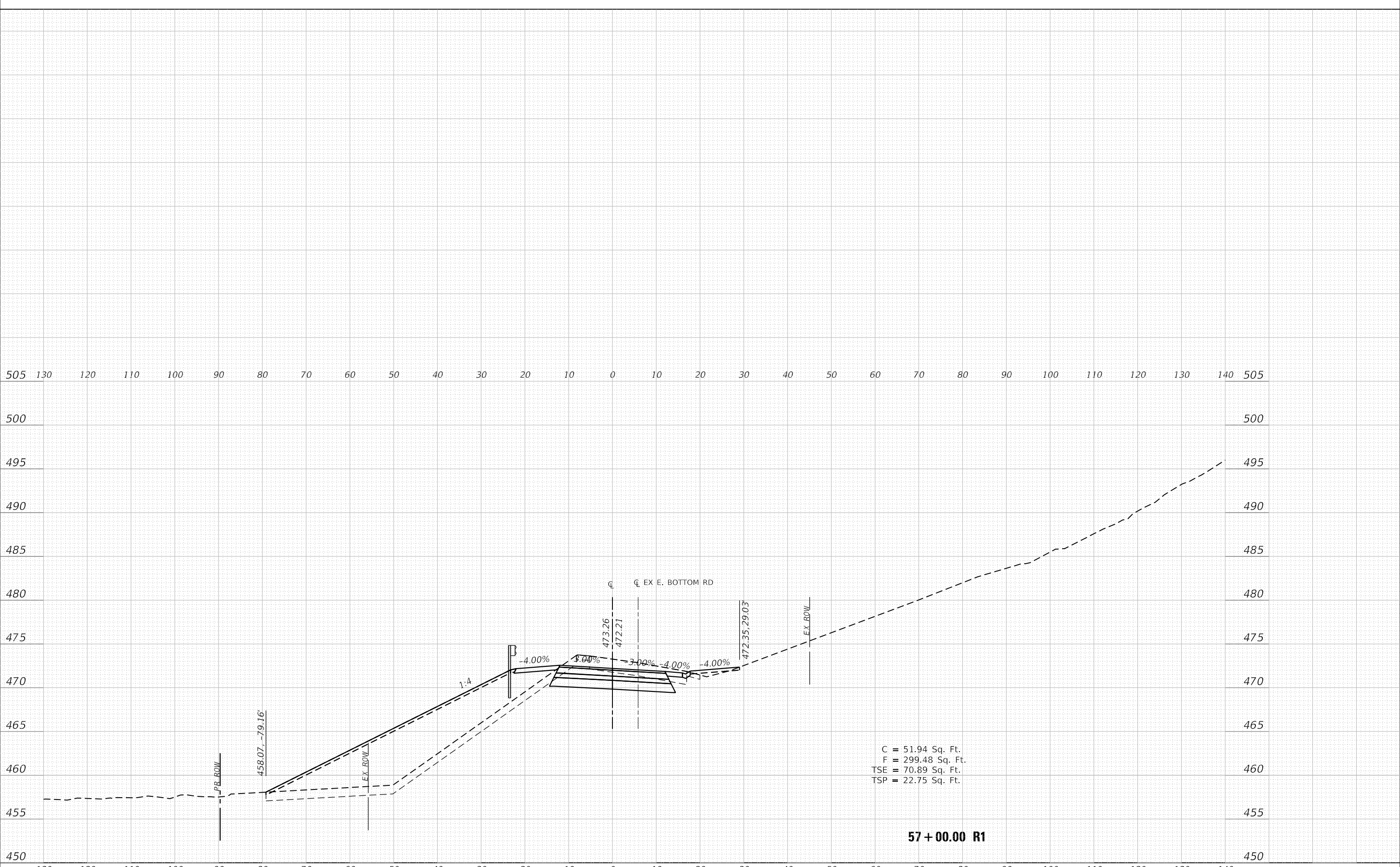
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CONTRACT NO. 89708				

ILLINOIS FED. AID PROJECT

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NOTE BOOK NO.	PLOTTED AREAS CHECKED		
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ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	PLOTTED AREAS CHECKED		
	TEMPLATE AREAS CHECKED		
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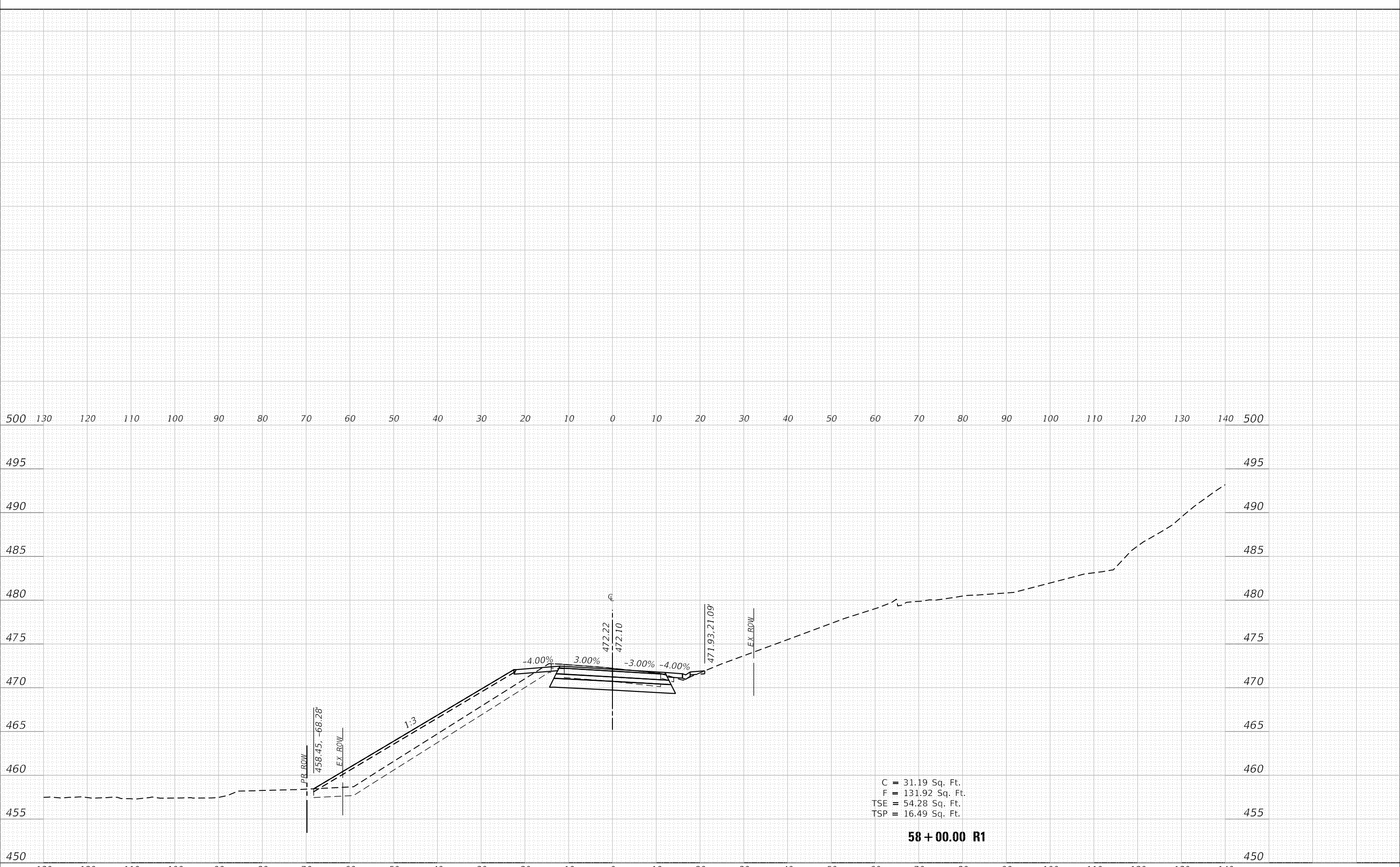
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DATE	
BY	
FINISHED SURVEY	
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TEMPLATE	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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MAURER-STUTZ
ENGINEERS SURVEYORS

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**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
EAST BOTTOM ROAD CROSS SECTIONS**

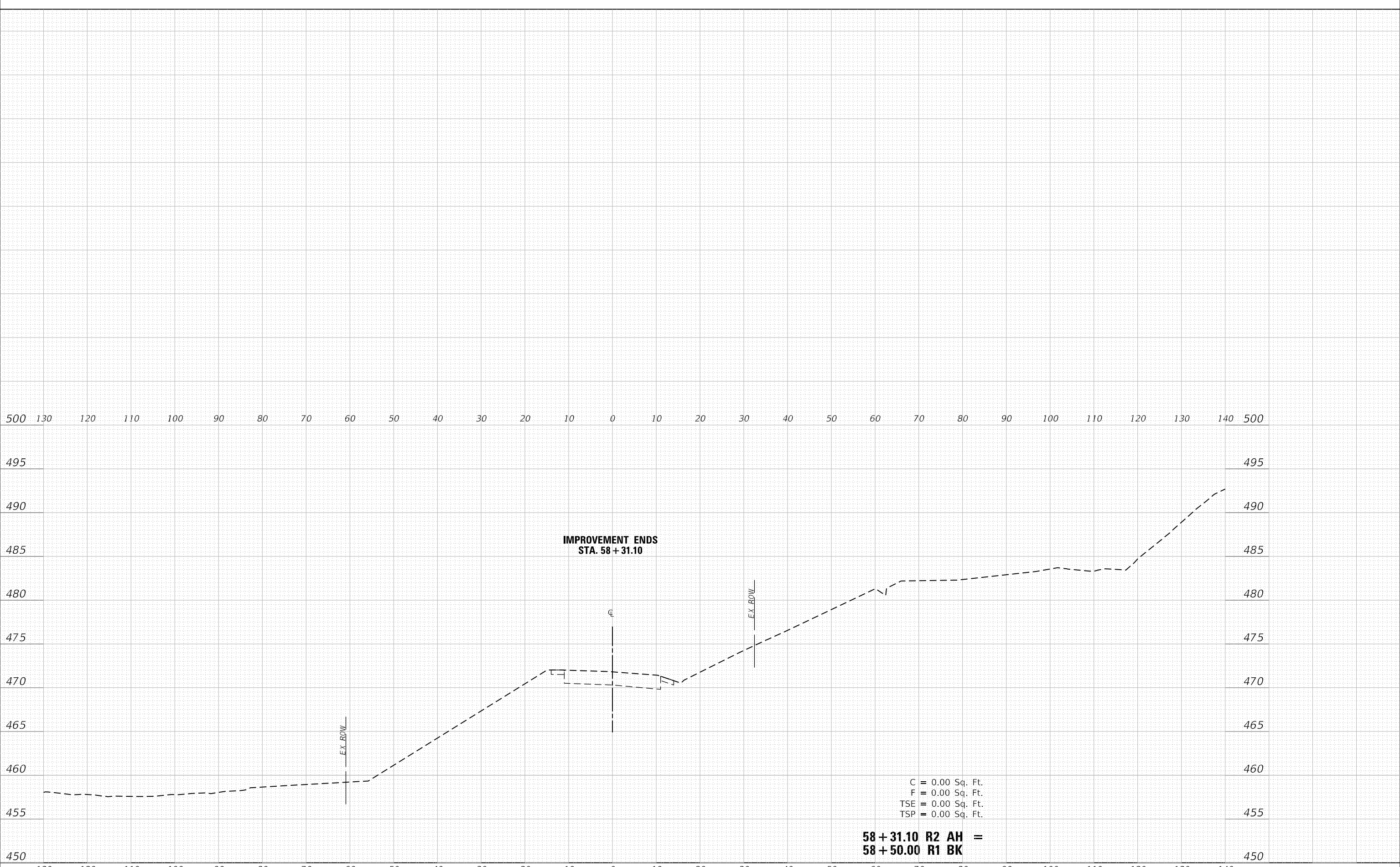
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CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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MAURER-STUTZ
ENGINEERS SURVEYORS

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**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
EAST BOTTOM ROAD CROSS SECTIONS**

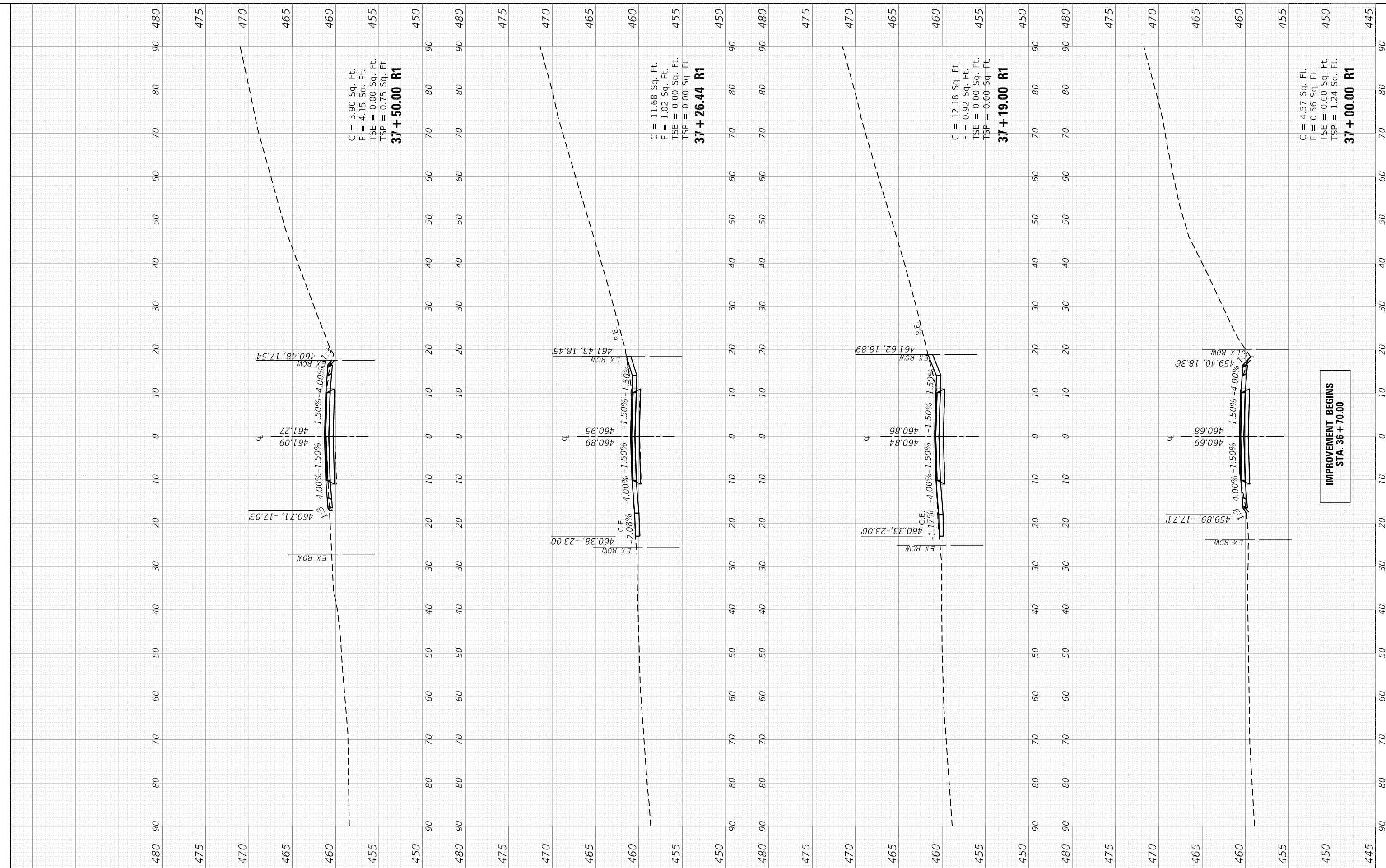
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CONTRACT NO. 89708				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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IMPROVEMENT BEGINS
STA. 36 + 70.00



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DESIGNED -	BMW/JDS
DRAWN -	BMW/CAD/WLL
CHECKED -	GBM
DATE -	04/05/2019

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
WEST BOTTOM ROAD CROSS SECTIONS**

SCALE: SHEET 1 OF 2 SHEETS STA. 37+00.00 R1 TO STA. 37+50.00 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	51
CONTRACT NO. 89708				

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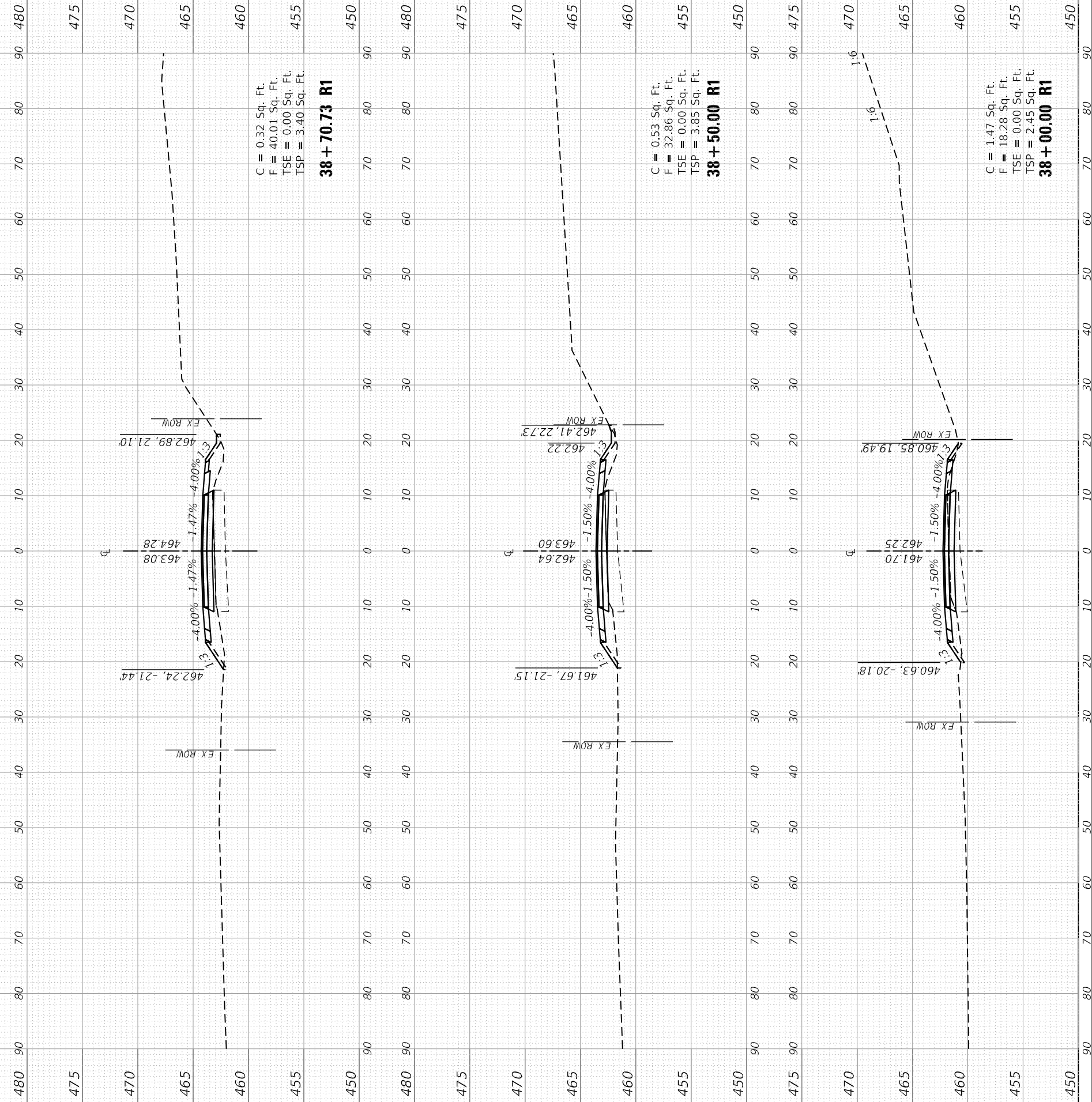
**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
WEST BOTTOM ROAD CROSS SECTIONS**

SCALE: SHEET 2 OF 2 SHEETS STA.38+00.00 R1 TO STA. 38+70.73 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	52
CONTRACT NO. 89708				

**IMPROVEMENT ENDS
STA. 39 + 75.20**



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NOTE BOOK	PLOTTED		
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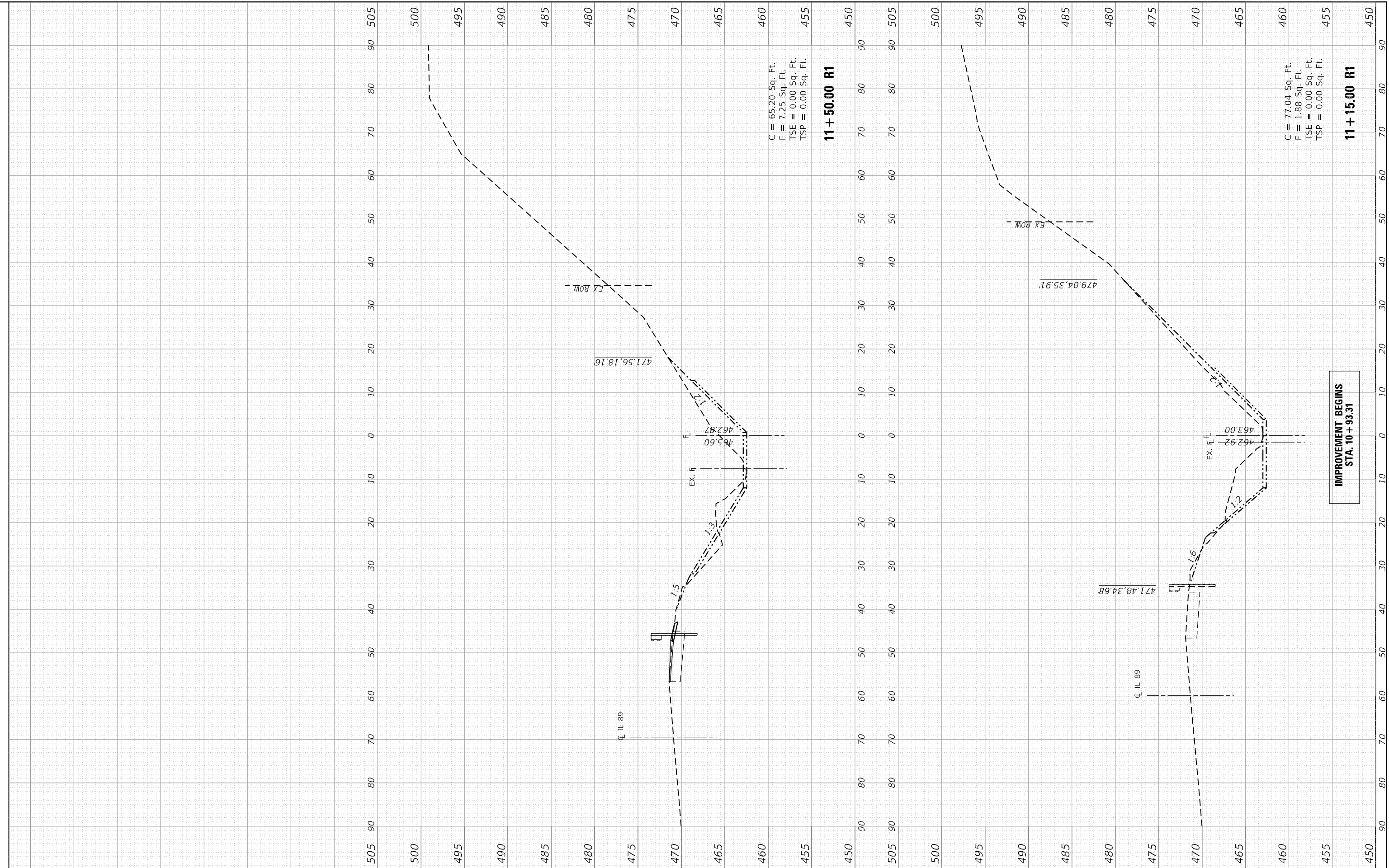
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**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
ILLINOIS RIVER TRIBUTARY CROSS SECTIONS**

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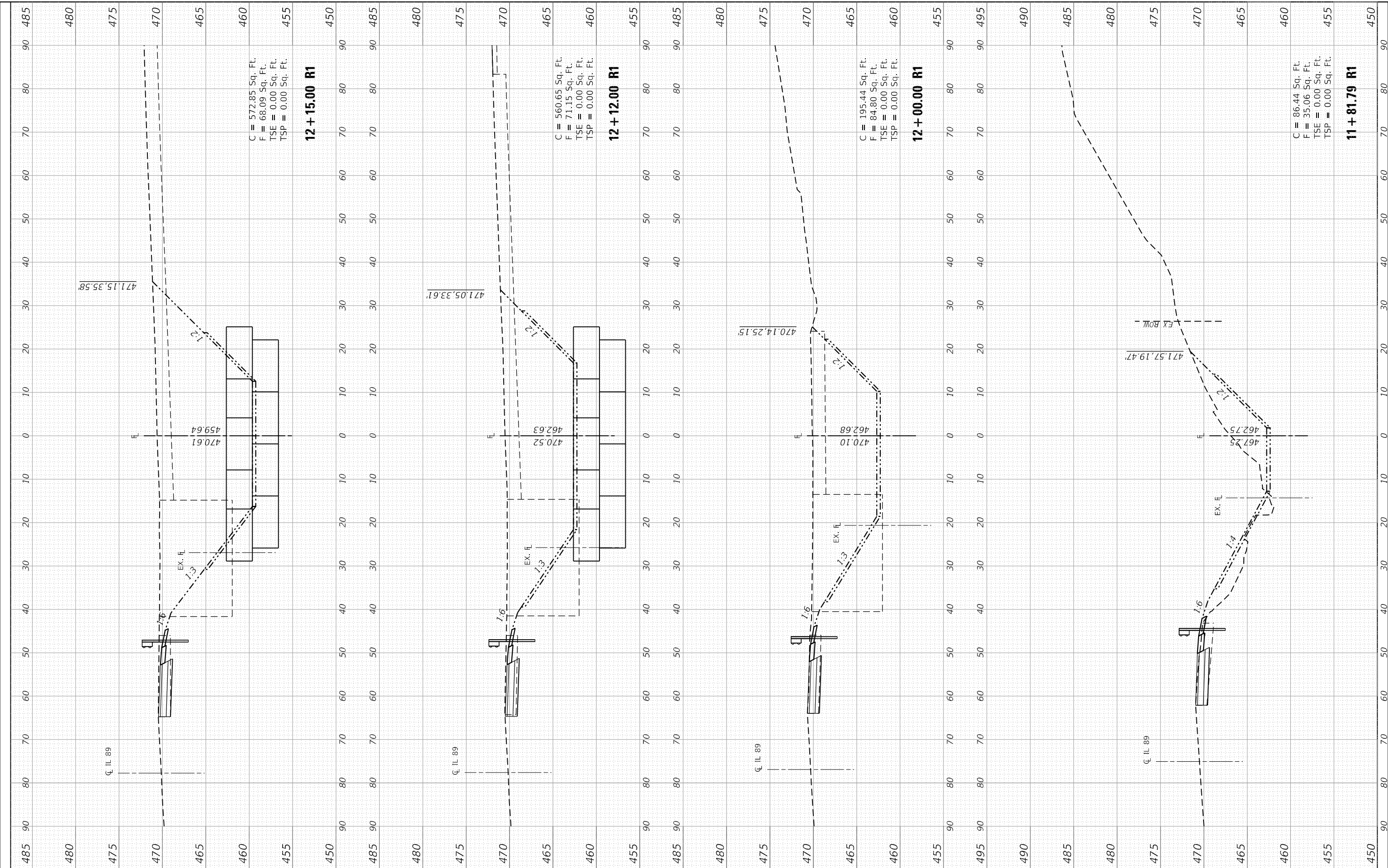
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CONTRACT NO. 89708				



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AREAS CHECKED	AREAS CHECKED		

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F = 68.09 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 0.00 Sq. Ft.

12 + 15.00 R1

C = 560.65 Sq. Ft.
F = 71.15 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 0.00 Sq. Ft.

12 + 12.00 R1

C = 195.44 Sq. Ft.
F = 84.80 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 0.00 Sq. Ft.

12 + 00.00 R1

C = 86.44 Sq. Ft.
F = 35.06 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 0.00 Sq. Ft.

11 + 81.79 R1



USER NAME =	bmwagehoft	DESIGNED -	BMW/JDS	REVISED -	
		DRAWN -	BMW/CAD/WLL	REVISED -	
		CHECKED -	GBM	REVISED -	
		DATE -	04/05/2019	REVISED -	

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
ILLINOIS RIVER TRIBUTARY CROSS SECTIONS**

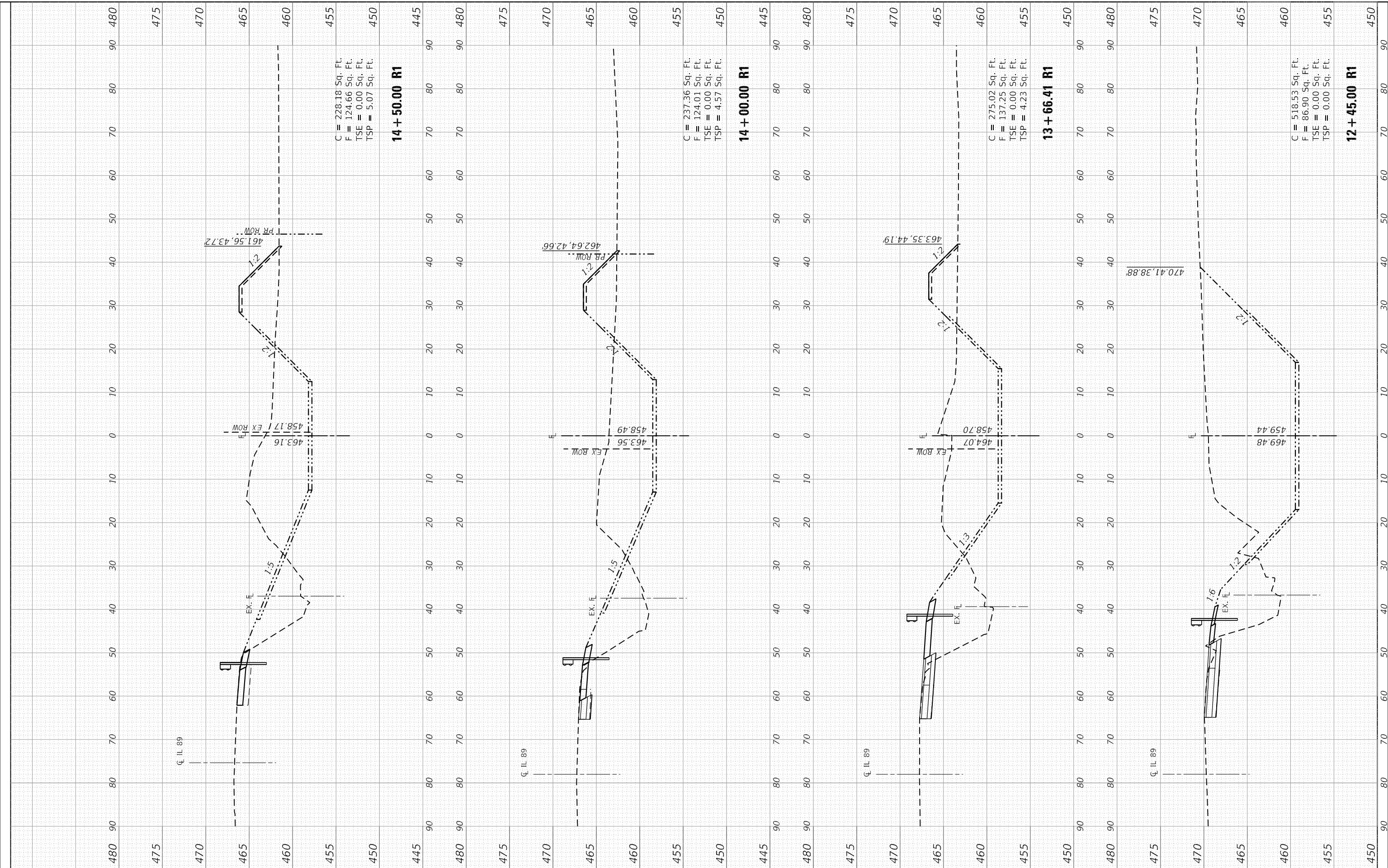
SCALE: SHEET 2 OF 4 SHEETS STA. 11+81.79 R1 TO STA. 12+15.00 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	54
CONTRACT NO. 89708				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

FILE NAME = S:\237\2015\23712018\01\Borcom Road Phase II Design\CADD\CADD Sheets\04857\08-sh-4-xec-TRIB.dgn

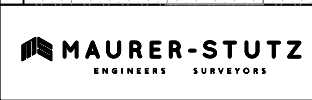


C = 228.18 Sq. Ft.
 F = 124.66 Sq. Ft.
 TSE = 0.00 Sq. Ft.
 TSP = 5.07 Sq. Ft.
14 + 50.00 R1

C = 237.36 Sq. Ft.
 F = 124.01 Sq. Ft.
 TSE = 0.00 Sq. Ft.
 TSP = 4.57 Sq. Ft.
14 + 00.00 R1

C = 275.02 Sq. Ft.
 F = 137.25 Sq. Ft.
 TSE = 0.00 Sq. Ft.
 TSP = 4.23 Sq. Ft.
13 + 66.41 R1

C = 518.53 Sq. Ft.
 F = 86.90 Sq. Ft.
 TSE = 0.00 Sq. Ft.
 TSP = 0.00 Sq. Ft.
12 + 45.00 R1



USER NAME =	bmwagehoft
DESIGNED -	BMW/JDS
DRAWN -	BMW/CAD/WLL
CHECKED -	GBM
DATE -	04/05/2019
PLOT SCALE =	20.0000' / in.
PLOT DATE =	4/5/2019 2:12:28 PM

REVISD -	
REVISD -	
REVISD -	
REVISD -	

**PUTNAM COUNTY
 HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
 ILLINOIS RIVER TRIBUTARY CROSS SECTIONS**

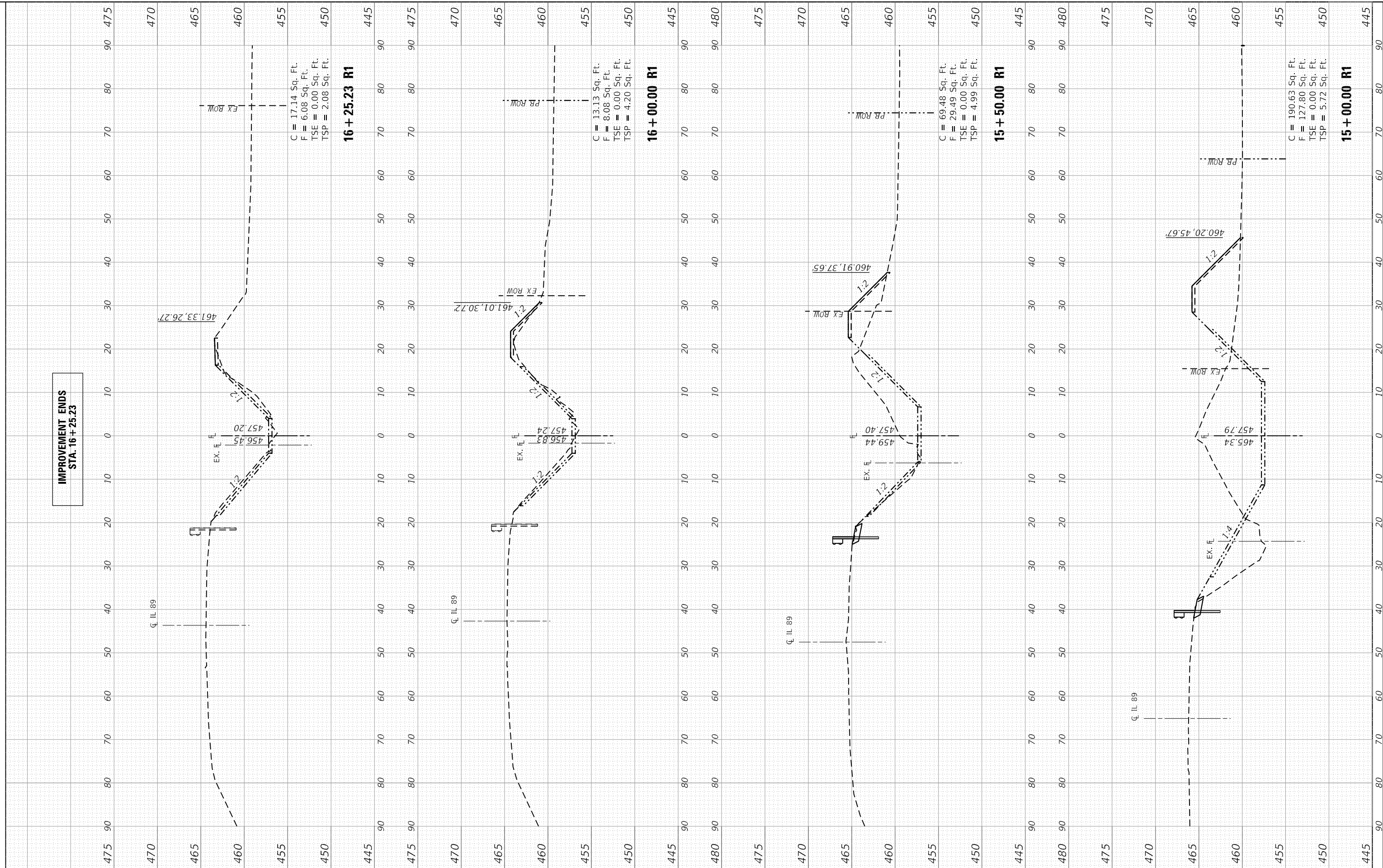
SCALE: SHEET 3 OF 4 SHEETS STA. 12+45.00 R1 TO STA. 14+50.00 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	55
CONTRACT NO. 89708				

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

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

FILE NAME = S:\237\2015\23715010.01 Ibr.ctm Road Phase II Design\CADD\CADD Sheets\04857708-sh1-xsc-TRIB.dgn



C = 17.14 Sq. Ft.
F = 6.08 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 2.08 Sq. Ft.

16 + 25.23 R1

C = 13.13 Sq. Ft.
F = 8.08 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 4.20 Sq. Ft.

16 + 00.00 R1

C = 69.48 Sq. Ft.
F = 29.49 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 4.99 Sq. Ft.

15 + 50.00 R1

C = 190.63 Sq. Ft.
F = 127.80 Sq. Ft.
TSE = 0.00 Sq. Ft.
TSP = 5.72 Sq. Ft.

15 + 00.00 R1

**IMPROVEMENT ENDS
STA. 16 + 25.23**



USER NAME =	bmwagehoft
DESIGNED -	BMW/JDS
DRAWN -	BMW/CAD/WLL
CHECKED -	GBM
DATE -	04/05/2019

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PUTNAM COUNTY
HIGHWAY DEPARTMENT**

**BOTTOM ROAD (CH 16) BRIDGE REPLACEMENTS
ILLINOIS RIVER TRIBUTARY CROSS SECTIONS**

SCALE: SHEET 4 OF 4 SHEETS STA. 15+00.00 R1 TO STA. 16+25.23 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1254	13-00025-00-BR	PUTNAM	56	56
CONTRACT NO. 89708				