

INGHRAM TRUST

FENCE REMOVAL = 2,409 FEET
 (DUE TO THE SURVEY NOT BEING UP TO DATE, FENCE
 REMOVAL WAS CALCULATED BY USING THE APPRAISAL RECORDS
 FOR INDIVIDUAL PROPERTY OWNERS)

RT. & LT. STA. 162+84 TO 186+85
 EXISTING WIDENING & PORTION OF 9-6-9 PAVEMENT TO BE REMOVED,
 PAID AS PAVEMENT REMOVAL= 1601 SQ. YD.
 (SEE SPECIAL PROVISION)

LT. STA. 153+75.7 (EXISTING CULVERT TO BE EXTENDED)
 CONCRETE HEADWALL REMOVAL= ... CU. YD.

LT. STA. 155+91.3
 EXISTING AGG. F.E.
 PIPE CULVERT REMOVAL(SPECIAL)= 25 FT.

LT. STA. 157+35 TO 162+84
 GUTTER REMOVAL, 549 FEET
 (REFER TO ARTICLE 440.03 OF THE
 STANDARD SPECIFICATIONS)

RT. & LT. STA. 157+35 TO 162+84
 PORTION OF EXIST. 9-6-9 PAV'T TO BE REMOVED, 1' WIDE,
 PAID AS PAVEMENT REMOVAL= 122 SQ. YD.
 (SEE SPECIAL PROVISION)
 BURIED GUTTER AND HMA OVERLAYS TO BE REMOVED, 2'-8" WIDE,
 PAID AS PAVEMENT REMOVAL (SPECIAL)= 326 SQ. YD.

LT. & RT. STA. 157+25 TO 163+25
 EXPLORATION TRENCH 48" DEPTH, SPECIAL= 1200 FEET
 SHALL BE PERFORMED AFTER THE EXISTING GUTTER
 IS REMOVED.

RT. STA. 153+75.7
 REMOVAL OF EXISTING STRUCTURE NO. 3
 =1 EACH
 (SEE STRUCTURE REMOVAL DETAIL)

STA. 155+20.6 (EXISTING CULVERT TO BE EXTENDED)
 RT. SIDE CONCRETE HEADWALL REMOVAL= 9.78 CU. YD.
 LT. SIDE CONCRETE HEADWALL REMOVAL= 9.78 CU. YD.

RT. STA. 157+23 TO 162+83
 GUTTER REMOVAL, 549 FEET
 (REFER TO ARTICLE 440.03 OF THE
 STANDARD SPECIFICATIONS)

LEGEND

- PAVEMENT REMOVAL
- PAVEMENT BREAKING
- HMA SURFACE REMOVAL-BUTT JOINT

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
40"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

PLAN NOTES

- REMOVAL OF SAPLINGS, BUSHES AND ROOTS SHALL BE REMOVED AND DISPOSED OF AS REQUIRED BY ARTICLE 201
- SEE TREE REMOVAL TABLE FOR STATIONING AND QUANTITY
- REFER TO THE GENERAL NOTE AND/OR THE UNDERDRAIN, SPECIAL DETAIL IF ANY PIPE UNDERDRAINS OR FIELD TILE ARE ENCOUNTERED DURING CONSTRUCTION
- DUE TO THE POOR CONDITION OF THE EXISTING E.O.P ALONG BOTH SIDES OF IL ROUTE 116, QUANTITIES WERE INCLUDED FOR THE CONTRACTOR TO SAW CUT AND REMOVE PAVEMENT AT THE LOCATIONS AND WIDTHS SPECIFIED IN THE EXISTING TYPICALS. THIS WORK SHALL BE PAID FOR AS EITHER PAVEMENT REMOVAL AND/OR PAVEMENT REMOVAL, SPECIAL.

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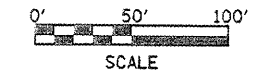
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 152+00 TO STA. 166+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3(136R)109BR-2	HENDERSON		10
FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT				

CONTRACT NO. 88773



RT. STA. 171+11.11
 EXISTING AGG. C.E. WITH HMA APRON.
 HMA TO BE REMOVED, PAID AS
 DRIVEWAY PAVEMENT REM.= 33 SQ YD
 PIPE CULVERT REMOVAL (SPECIAL)= 41 FT.

RT. STA. 172+89.30
 EXISTING AGG. C.E. WITH HMA APRON.
 HMA TO BE REMOVED, PAID AS
 DRIVEWAY PAVEMENT REM.= 28 SQ YD
 PIPE CULVERT REMOVAL (SPECIAL)= 40 FT.

LT. STA. 173+24.8 (EXISTING CULVERT TO BE EXTENDED)
 CONCRETE HEADWALL REMOVAL
 =2.81 CU. YD.

LT. STA. 173+72.3
 EXISTING AGG. F.E.
 PIPE CULVERT REMOVAL (SPECIAL)= 32 FT.

LT. STA. 178+00
 TREE REMOVAL (OVER 15 UNITS DIAMETER)
 2 EXISTING STUMPS
 22.0 UNITS
 22.5 UNITS

LT. STA. 179+00
 TREE REMOVAL (OVER 15 UNITS DIAMETER)
 1 EXISTING STUMP
 23 UNITS

RT. STA. 179+05.31
 EXISTING AGG. F.E. WITH HMA APRON.
 HMA TO BE REMOVED, PAID AS
 DRIVEWAY PAVEMENT REM.= 18 SQ. YD.

RT. STA. 178+24.8
 REMOVAL OF EXISTING STRUCTURE NO. 4= 1 EACH
 (SEE STRUCTURE REMOVAL DETAIL)

RT. STA. 169+88.96
 EXISTING AGG. C.E. WITH HMA APRON.
 HMA TO BE REMOVED, PAID AS
 DRIVEWAY PAVEMENT REM.= 24 SQ YD
 PIPE CULVERT REMOVAL(SPECIAL)= 39 FT.

RT. STA. 168+79.42
 EXISTING AGG. C.E. WITH HMA APRON.
 HMA TO BE REMOVED, PAID AS
 DRIVEWAY PAVEMENT REM.= 29 SQ YD



55 mph
 50 mph

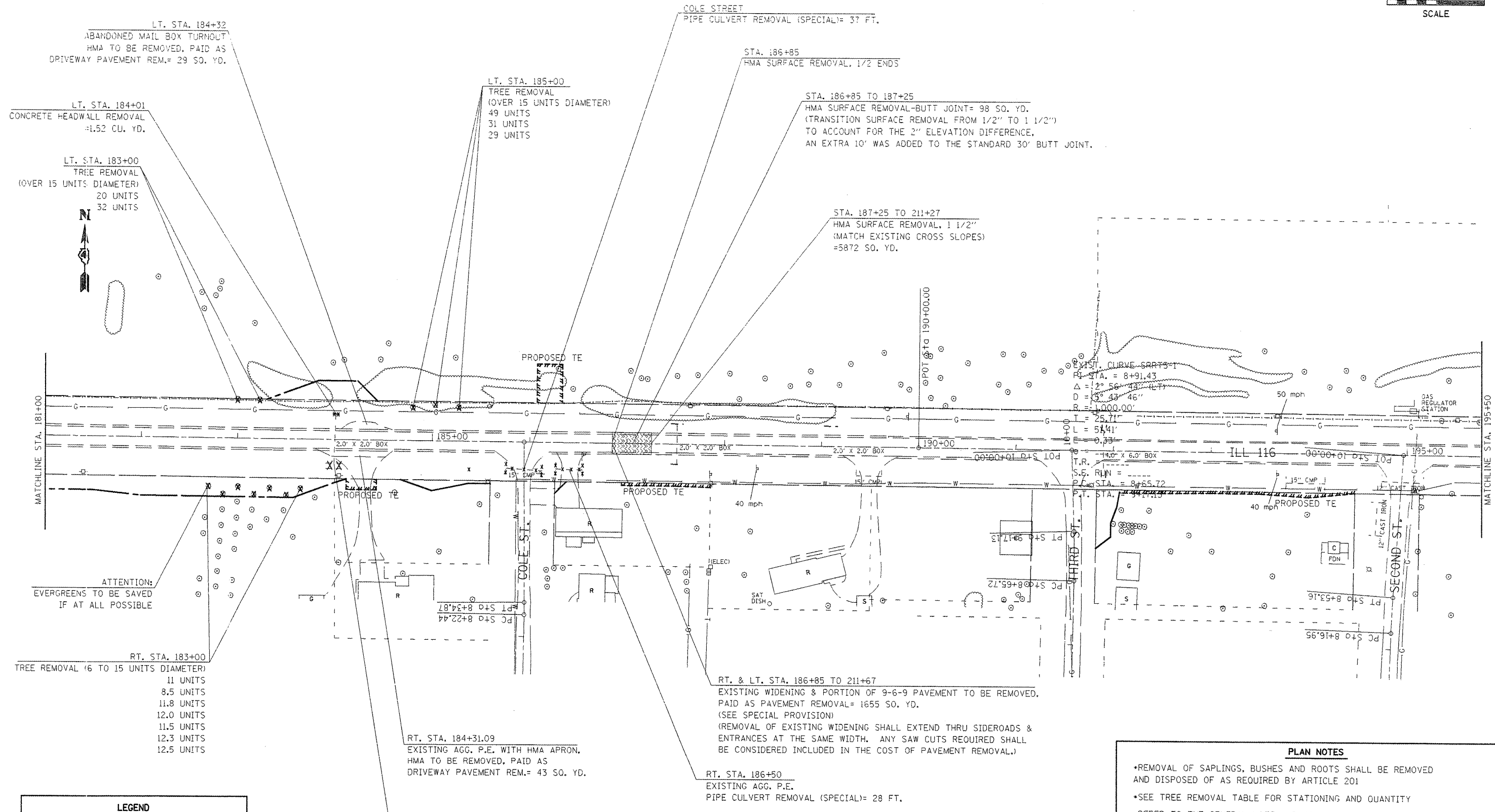
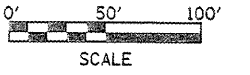
50 mph

LEGEND	
	PAVEMENT REMOVAL
	PAVEMENT BREAKING
	HMA SURFACE REMOVAL-BUTT JOINT

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
40"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

PLAN NOTES

- REMOVAL OF SAPLINGS, BUSHES AND ROOTS SHALL BE REMOVED AND DISPOSED OF AS REQUIRED BY ARTICLE 201
- SEE TREE REMOVAL TABLE FOR STATIONING AND QUANTITY
- REFER TO THE GENERAL NOTE AND/OR THE UNDERDRAIN, SPECIAL DETAIL IF ANY PIPE UNDERDRAINS OR FIELD TILE ARE ENCOUNTERED DURING CONSTRUCTION
- DUE TO THE POOR CONDITION OF THE EXISTING E.O.P ALONG BOTH SIDES OF IL ROUTE 116, QUANTITIES WERE INCLUDED FOR THE CONTRACTOR TO SAW CUT AND REMOVE PAVEMENT AT THE LOCATIONS AND WIDTHS SPECIFIED IN THE EXISTING TYPICALS. THIS WORK SHALL BE PAID FOR AS EITHER PAVEMENT REMOVAL AND/OR PAVEMENT REMOVAL, SPECIAL.



ATTENTION:
EVERGREENS TO BE SAVED
IF AT ALL POSSIBLE

RT. STA. 183+00
TREE REMOVAL (6 TO 15 UNITS DIAMETER)
11 UNITS
8.5 UNITS
11.8 UNITS
12.0 UNITS
11.5 UNITS
12.3 UNITS
12.5 UNITS

LEGEND

[Pattern]	PAVEMENT REMOVAL
[Pattern]	PAVEMENT BREAKING
[Pattern]	HMA SURFACE REMOVAL-BUTT JOINT

RT. STA. 184+01 (EXISTING CULVERT TO BE EXTENDED)
REMOVAL OF EXISTING STRUCTURE NO. 5= 1 EACH
(SEE STRUCTURE REMOVAL DETAIL)

RT. & LT. STA. 186+85 TO 211+67
EXISTING WIDENING & PORTION OF 9-6-9 PAVEMENT TO BE REMOVED.
PAID AS PAVEMENT REMOVAL= 1655 SQ. YD.
(SEE SPECIAL PROVISION)
(REMOVAL OF EXISTING WIDENING SHALL EXTEND THRU SIDEROADS & ENTRANCES AT THE SAME WIDTH. ANY SAW CUTS REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF PAVEMENT REMOVAL.)

RT. STA. 186+50
EXISTING AGG. P.E.
PIPE CULVERT REMOVAL (SPECIAL)= 28 FT.

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
4'-0"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

PLAN NOTES

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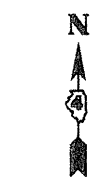
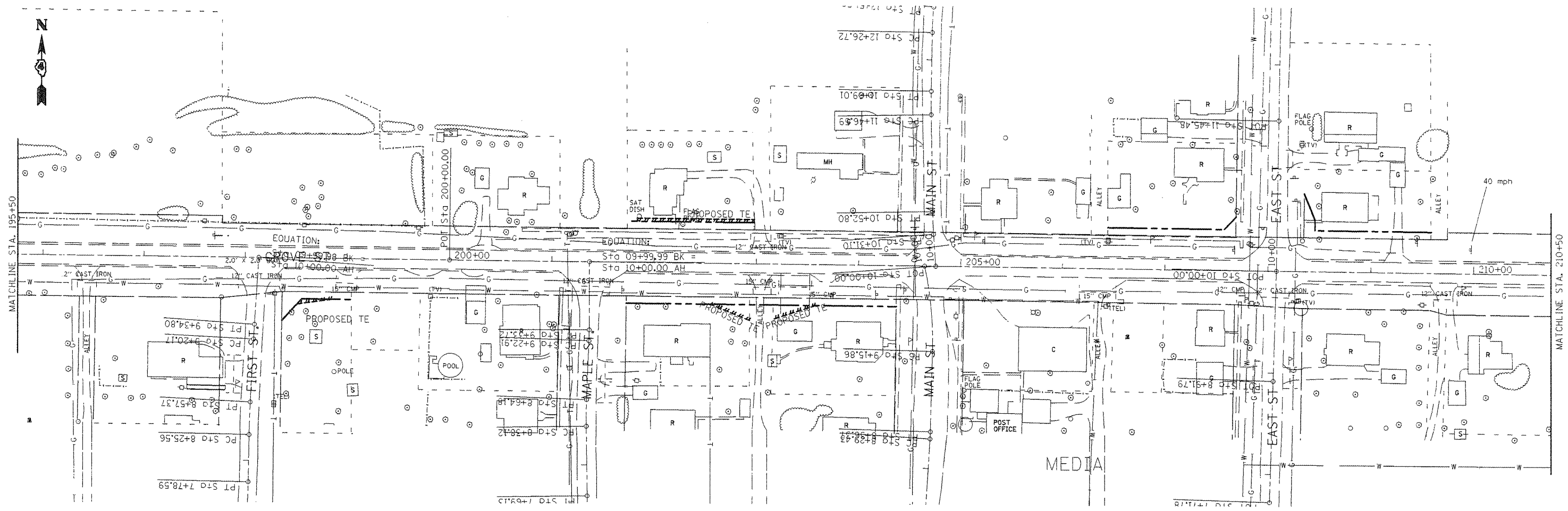
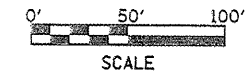
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS
SCALE: 1"=50'
SHEET NO. OF SHEETS STA. 181+00 TO STA. 195+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136.137)W&RS-3h136r109BR-2	HENDERSON		703

CONTRACT NO. 88773
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT



MATCHLINE STA. 195+50

MATCHLINE STA. 210+50

LEGEND	
	PAVEMENT REMOVAL
	PAVEMENT BREAKING
	HMA SURFACE REMOVAL-BUTT JOINT

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
40"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

PLAN NOTES

- REMOVAL OF SAPLINGS, BUSHES AND ROOTS SHALL BE REMOVED AND DISPOSED OF AS REQUIRED BY ARTICLE 201
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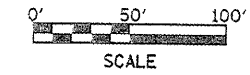
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	PLOT DATE = 1/28/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 195+00 TO STA. 210+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136.137)W&RS-3+136R109BR-2	HENDERSON		104
				CONTRACT NO. 88773
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

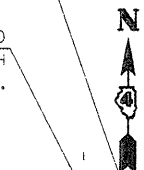


LT. STA. 211+67 TO 215+72
EXISTING WIDENING & PORTION OF 9-6-9 PAVEMENT TO BE REMOVED.
PAID AS PAVEMENT REMOVAL= 135 SQ. YD.
(SEE SPECIAL PROVISION)

LT. STA. 215+72 TO 217+00
CCC & G REMOVAL= 128 FEET
PORTION OF 9-6-9 PAVEMENT TO BE REMOVED, 1' WIDE.
PAID AS PAVEMENT REMOVAL= 14 SQ. YD.
(SEE SPECIAL PROVISION)

STA. 211+67 TO 217+00
HMA SURFACE REMOVAL, VARIABLE DEPTH
=1540 SQ. YD.

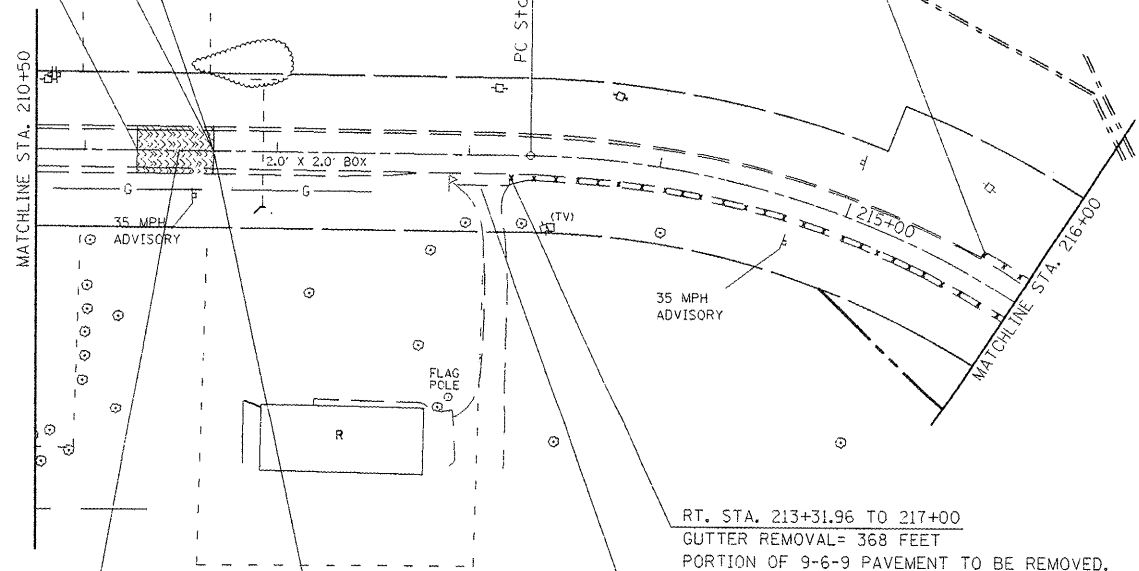
STA. 211+27
HMA SURFACE REMOVAL, 1 1/2" ENDS



MATCHLINE STA. 210+50

PC Sta. 213+31.96

MATCHLINE STA. 216+00



RT. STA. 213+31.96 TO 217+00
GUTTER REMOVAL= 368 FEET
PORTION OF 9-6-9 PAVEMENT TO BE REMOVED.
PAID AS PAVEMENT REMOVAL= 41 SQ. YD.
(SEE SPECIAL PROVISION)

RT. STA. 213+03.13
EXISTING AGG. P.E. WITH HMA APRON.
HMA TO BE REMOVED, PAID AS
DRIVEWAY PAVEMENT REM.= 21 SQ. YD.

STA. 211+27 TO 211+67
HMA SURFACE REMOVAL-BUTT JOINT= 116 SQ. YD
(TRANSITION SURFACE REMOVAL FROM 1 1/2" TO 1/2")
TO ACCOUNT FOR THE 2" ELEVATION DIFFERENCE,
AN EXTRA 10' WAS ADDED TO THE STANDARD 30'
BUTT JOINT.

RT. STA. 211+67 TO 213+31.96
EXISTING WIDENING & PORTION OF 9-6-9 PAVEMENT TO BE REMOVED.
PAID AS PAVEMENT REMOVAL= 55 SQ. YD.
(SEE SPECIAL PROVISION)

LEGEND	
	PAVEMENT REMOVAL
	PAVEMENT BREAKING
	HMA SURFACE REMOVAL-BUTT JOINT

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
40"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

PLAN NOTES

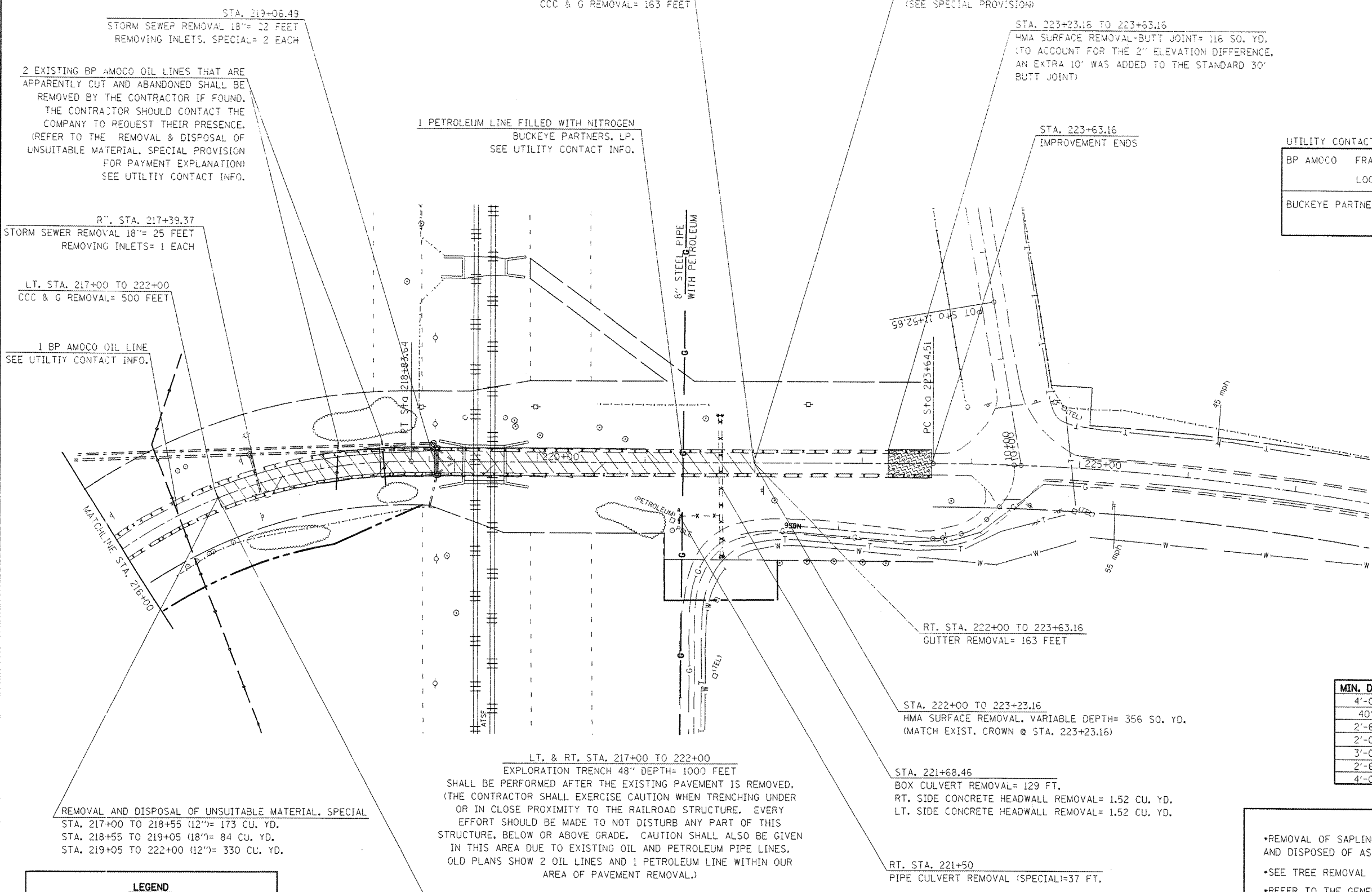
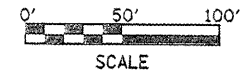
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- *DUE TO THE POOR CONDITION OF THE EXISTING E.O.P ALONG BOTH SIDES OF IL ROUTE 116, QUANTITIES WERE INCLUDED FOR THE CONTRACTOR TO SAW CUT AND REMOVE PAVEMENT AT THE LOCATIONS AND WIDTHS SPECIFIED IN THE EXISTING TYPICALS. THIS WORK SHALL BE PAID FOR AS EITHER PAVEMENT REMOVAL AND/OR PAVEMENT REMOVAL, SPECIAL.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS			
SCALE:	SHEET NO.	OF SHEETS	STA. 210+50 TO STA. 216+00
1"=50'			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136.137W&RS-3d136Rd109BR-2	HENDERSON		105
				CONTRACT NO. 88773



2 EXISTING BP AMOCO OIL LINES THAT ARE APPARENTLY CUT AND ABANDONED SHALL BE REMOVED BY THE CONTRACTOR IF FOUND. THE CONTRACTOR SHOULD CONTACT THE COMPANY TO REQUEST THEIR PRESENCE. (REFER TO THE REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL. SPECIAL PROVISION FOR PAYMENT EXPLANATION) SEE UTILITY CONTACT INFO.

1 PETROLEUM LINE FILLED WITH NITROGEN
BUCKEYE PARTNERS, LP.
SEE UTILITY CONTACT INFO.

RT. & LT. STA. 222+00 TO 223+63.16
PORTION OF 3-6-9 PAVEMENT TO BE REMOVED.
PAID AS PAVEMENT REMOVAL= 36 SQ. YD.
(SEE SPECIAL PROVISION)

STA. 223+23.16 TO 223+63.16
HMA SURFACE REMOVAL-BUTT JOINT= 116 SQ. YD.
(TO ACCOUNT FOR THE 2" ELEVATION DIFFERENCE,
AN EXTRA 10' WAS ADDED TO THE STANDARD 30'
BUTT JOINT)

UTILITY CONTACTS:

BP AMOCO	FRANK ACOUSTA OR MARCIE FOSTER	630-836-3461
	LOCAL FIELD REPRESENTATIVE, CRAIG CALVERT	217-620-9621
BUCKEYE PARTNERS, LP.	JANA OLTHOFF	708-426-4170
	GREG RAMSEY	815-448-2491 OR 815-651-9472

RT. STA. 217+39.37
STORM SEWER REMOVAL 18"= 25 FEET
REMOVING INLETS= 1 EACH

LT. STA. 217+00 TO 222+00
CCC & G REMOVAL= 500 FEET

1 BP AMOCO OIL LINE
SEE UTILITY CONTACT INFO.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, SPECIAL
STA. 217+00 TO 218+55 (12")= 173 CU. YD.
STA. 218+55 TO 219+05 (18")= 84 CU. YD.
STA. 219+05 TO 222+00 (12")= 330 CU. YD.

LT. & RT. STA. 217+00 TO 222+00
EXPLORATION TRENCH 48" DEPTH= 1000 FEET
SHALL BE PERFORMED AFTER THE EXISTING PAVEMENT IS REMOVED.
(THE CONTRACTOR SHALL EXERCISE CAUTION WHEN TRENCHING UNDER
OR IN CLOSE PROXIMITY TO THE RAILROAD STRUCTURE. EVERY
EFFORT SHOULD BE MADE TO NOT DISTURB ANY PART OF THIS
STRUCTURE, BELOW OR ABOVE GRADE. CAUTION SHALL ALSO BE GIVEN
IN THIS AREA DUE TO EXISTING OIL AND PETROLEUM PIPE LINES.
OLD PLANS SHOW 2 OIL LINES AND 1 PETROLEUM LINE WITHIN OUR
AREA OF PAVEMENT REMOVAL.)

RT. STA. 222+00 TO 223+63.16
GUTTER REMOVAL= 163 FEET

STA. 222+00 TO 223+23.16
HMA SURFACE REMOVAL, VARIABLE DEPTH= 356 SQ. YD.
(MATCH EXIST. CROWN @ STA. 223+23.16)

STA. 221+68.46
BOX CULVERT REMOVAL= 129 FT.
RT. SIDE CONCRETE HEADWALL REMOVAL= 1.52 CU. YD.
LT. SIDE CONCRETE HEADWALL REMOVAL= 1.52 CU. YD.

RT. STA. 221+50
PIPE CULVERT REMOVAL (SPECIAL)=37 FT.

LT. & RT. STA. 211+27 TO 223+65
(LIMIT FROM E.O.P. TO R.O.W., P.E. & T.E.)
TREE REMOVAL= 0.5 ACRES

STA. 217+00 TO 222+00
PAVEMENT REMOVAL= 1,076 SQ. YD.
(SEE SPECIAL PROVISION)
GUTTER REMOVAL= 500 FEET

MIN. DEPTH	UTILITY	COMPANY
4'-0"	PETROLEUM	BUCKEYE PARTNERS, L.P.
4'-0"	OIL	BP AMOCO
2'-6"	TELEPHONE	FRONTIER COMMUNICATIONS
2'-0"	CABLE T.V.	MEDIACOM COMMUNICATIONS
3'-0"	ELECTRIC	AMEREN IP
2'-6"	NATURAL GAS	NICOR
4'-0"	WATER	DALLAS RURAL WATER DIST.

LEGEND

	PAVEMENT REMOVAL
	PAVEMENT BREAKING
	HMA SURFACE REMOVAL-BUTT JOINT

PLAN NOTES

- *REMOVAL OF SAPLINGS, BUSHES AND ROOTS SHALL BE REMOVED AND DISPOSED OF AS REQUIRED BY ARTICLE 201
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- *DUE TO THE POOR CONDITION OF THE EXISTING E.O.P ALONG BOTH SIDES OF IL ROUTE 116, QUANTITIES WERE INCLUDED FOR THE CONTRACTOR TO SAW CUT AND REMOVE PAVEMENT AT THE LOCATIONS AND WIDTHS SPECIFIED IN THE EXISTING TYPICALS. THIS WORK SHALL BE PAID FOR AS EITHER PAVEMENT REMOVAL AND/OR PAVEMENT REMOVAL, SPECIAL.

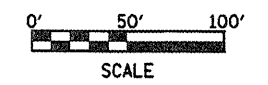
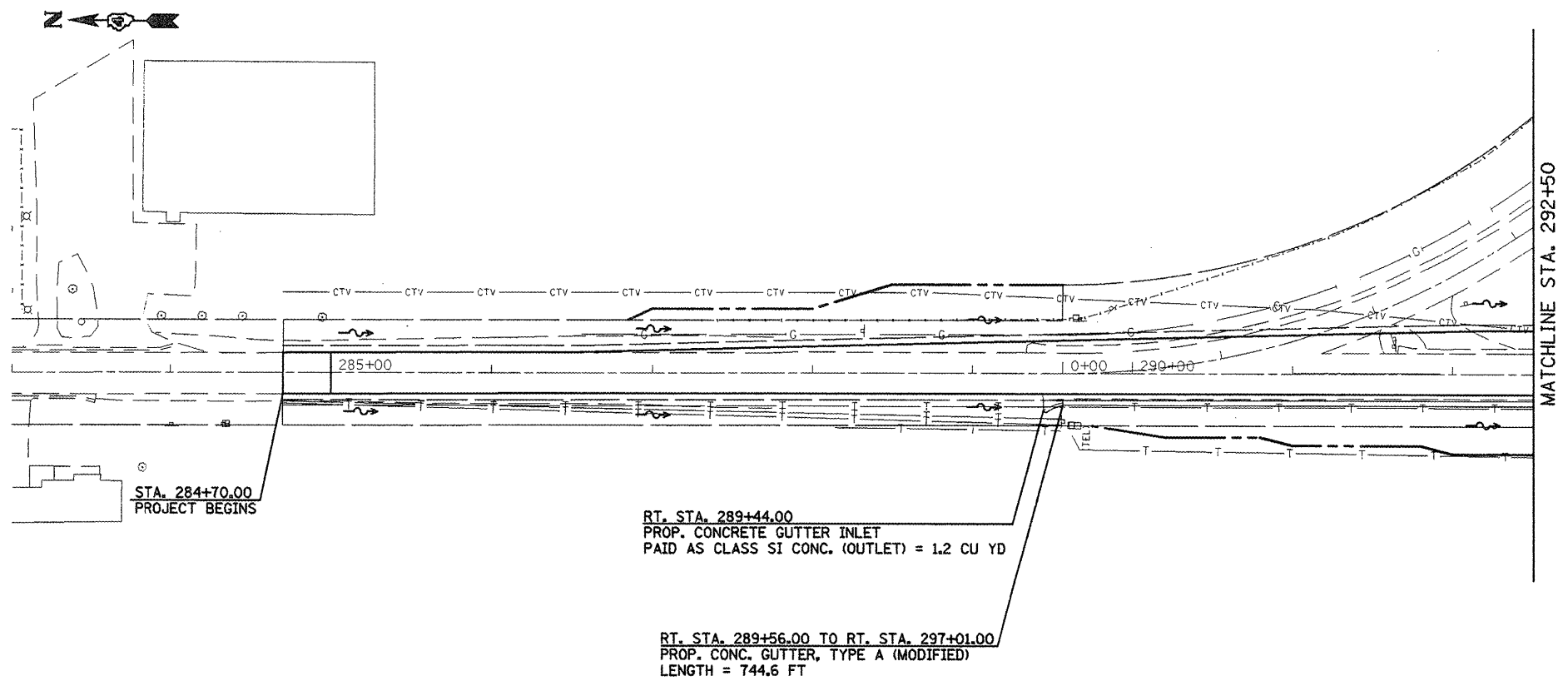
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	PLOT DATE = 1/28/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 216+00 TO STA. 223+63.16

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3136R109BR-2	HENDERSON		106
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 88773				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED DRAINAGE - IL 94			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&S-3d136Rd109BR-1	HENDERSON		107
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
				CONTRACT NO. 88773

RT STA. 20+00 (IL 116)
 PROP. CONC. GUTTER OUTLET
 PAID AS CLASS SI CONC. (OUTLET) = 5.8 CU. YD.

LT. STA. 307+65.00 (IL 94) TO
 RT. STA. 20+00.00 (IL 116)
 PROP. CCC & G M-6.24
 LENGTH = 160.3 FT
 INCLUDES 6 FT. TRANSITION

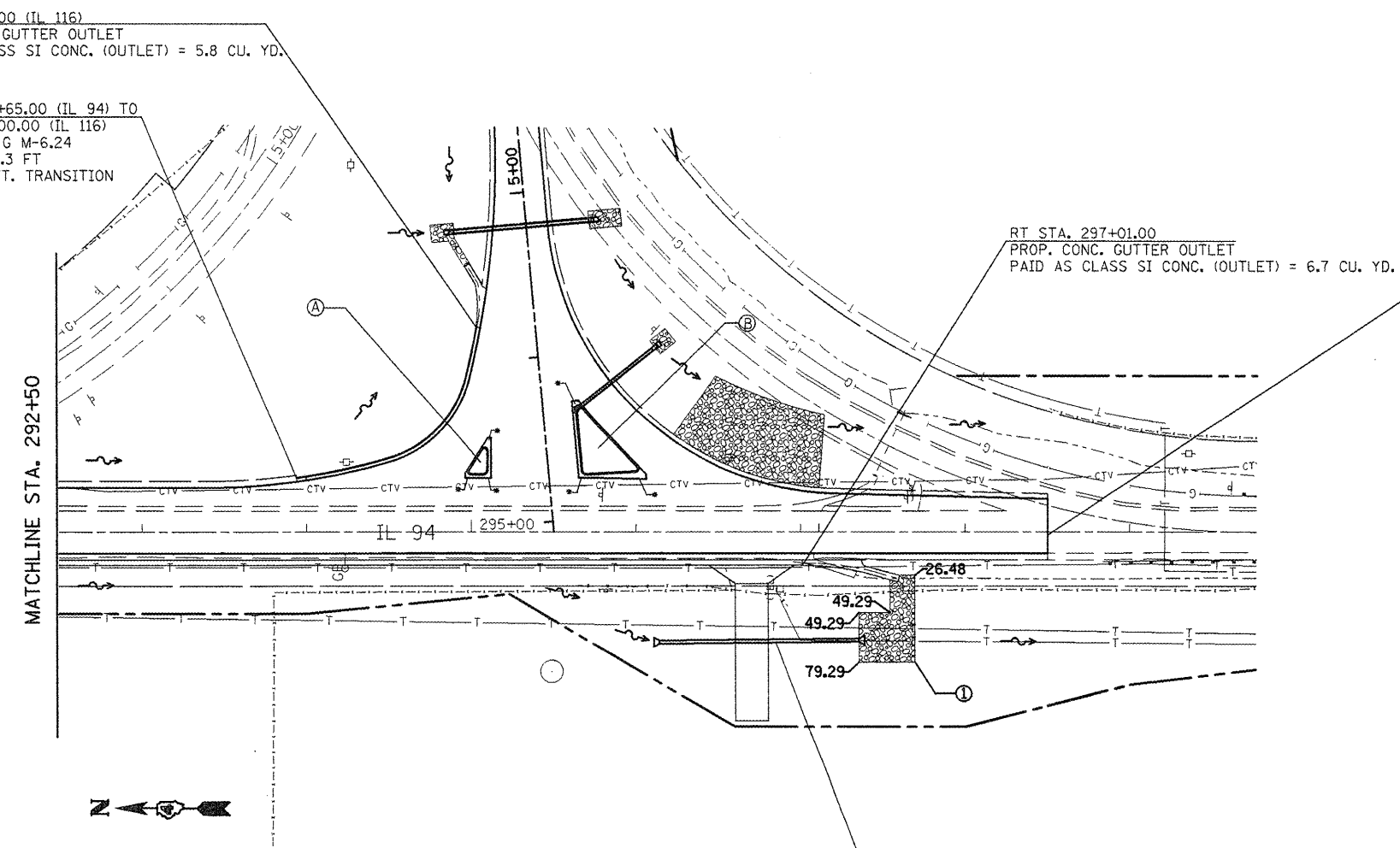
A. SMALL ISLAND
 PROP. ISLAND PAVEMENT 6" = 13.2 SQ YD
 SUB-BASE GRAN. MAT'L, TYP B, 4" = 26.1 SQ. YD.
 PROP. CCC & G TYPE M-4.24 = 32.7 FT
 PROP. CCC & G TYPE M-4.06 = 14.9 FT
 *EXTENDED PAN AREA SHALL BE INCLUDED
 IN THE COST OF THE CCC & G TYPE M-4.24

B. INTERMEDIATE ISLAND
 PROP. ISLAND PAVEMENT 6" = 87.3 SQ YD
 SUB-BASE GRAN. MAT'L, TYP B, 4" = 121.0 SQ YD.
 PROP. CCC & G TYPE M-4.24 = 81.6 FT
 PROP. CCC & G TYPE M-4.06 = 49.9 FT
 *EXTENDED PAN AREA SHALL BE INCLUDED
 IN THE COST OF THE CCC & G TYPE M-4.24

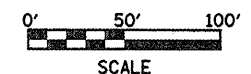
RT STA. 297+01.00
 PROP. CONC. GUTTER OUTLET
 PAID AS CLASS SI CONC. (OUTLET) = 6.7 CU. YD.

STA. 298+50.00
 MATCHLINE STATION
 SEE PLANS COMPLETED BY TWM, INC.

RT STA. 296+70.00
 PROP. PIPE CULV. CL D. TYP 1 24"
 LENGTH = 121.4 FT.
 USFL = 610.67
 DSFL = 605.11
 PROP. END SECTION = 2 EACH



MATCHLINE STA. 292+50



	STONE RIPRAP
①	CLASS B3
②	CLASS A5
③	CLASS B5
	FABRIC FORMED CONC. REV. MAT

FILE NAME = draindetail.dgn	USER NAME = ghdreem	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/27/2009	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED DRAINAGE - IL 94				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136.137)W&RS-3d136R109BR-1	HENDERSON		108
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 88773	

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	

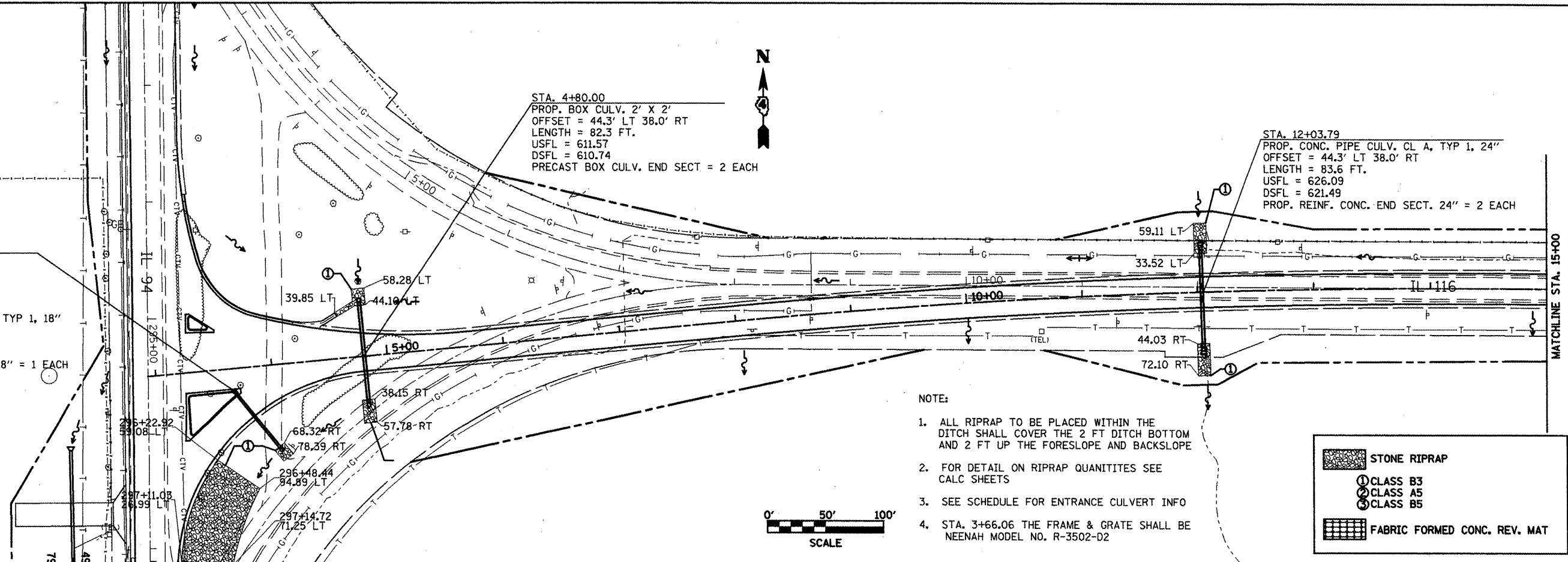
DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	

STA. 3+66.06
 PROP. INLETS TYP B
 W/ SPL F&G = 1 EACH
 TOP OF GRATE = 617.91
 INVERT ELEV. = 609.68

PROP. CONC. PIPE CULV. CL A, TYP 1, 18"
 LENGTH = 59.0 FT
 USFL = 609.89
 DSFL = 608.15
 PROP. RINF. CONC. END SECT. 18" = 1 EACH

STA. 4+80.00
 PROP. BOX CULV. 2' X 2'
 OFFSET = 44.3' LT 38.0' RT
 LENGTH = 82.3 FT.
 USFL = 611.57
 DSFL = 610.74
 PRECAST BOX CULV. END SECT = 2 EACH

STA. 12+03.79
 PROP. CONC. PIPE CULV. CL A, TYP 1, 24"
 OFFSET = 44.3' LT 38.0' RT
 LENGTH = 83.6 FT.
 USFL = 626.09
 DSFL = 621.49
 PROP. REINF. CONC. END SECT. 24" = 2 EACH

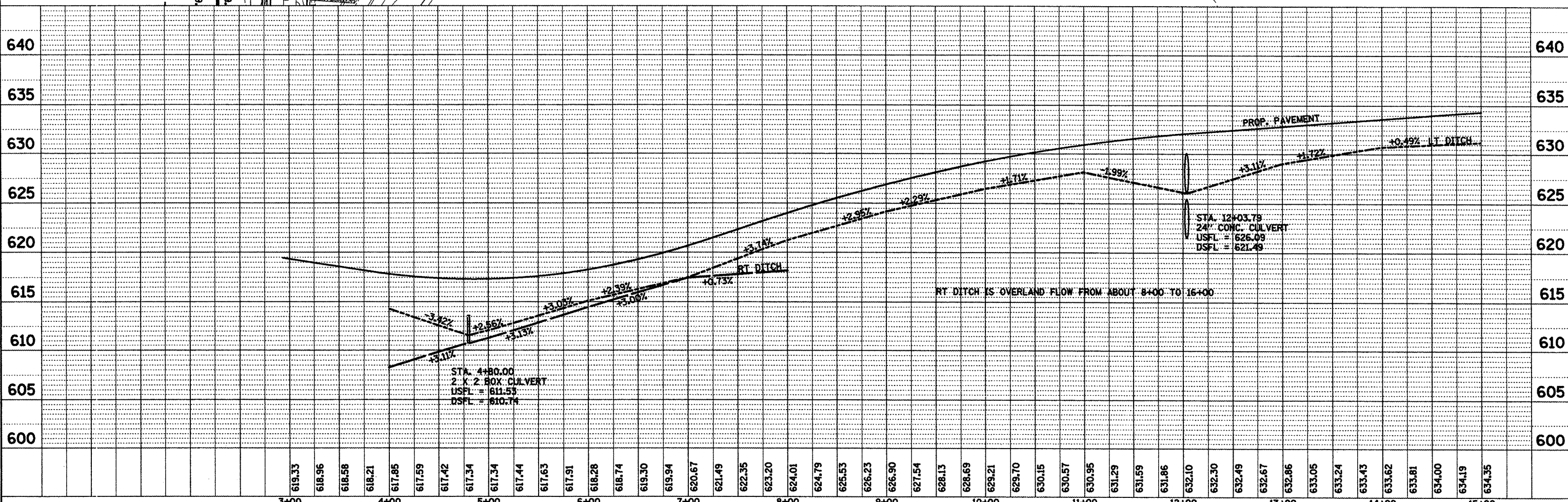
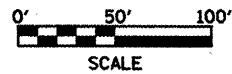


- NOTE:
- ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 - FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 - SEE SCHEDULE FOR ENTRANCE CULVERT INFO
 - STA. 3+66.06 THE FRAME & GRATE SHALL BE NEENAH MODEL NO. R-3502-D2

STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



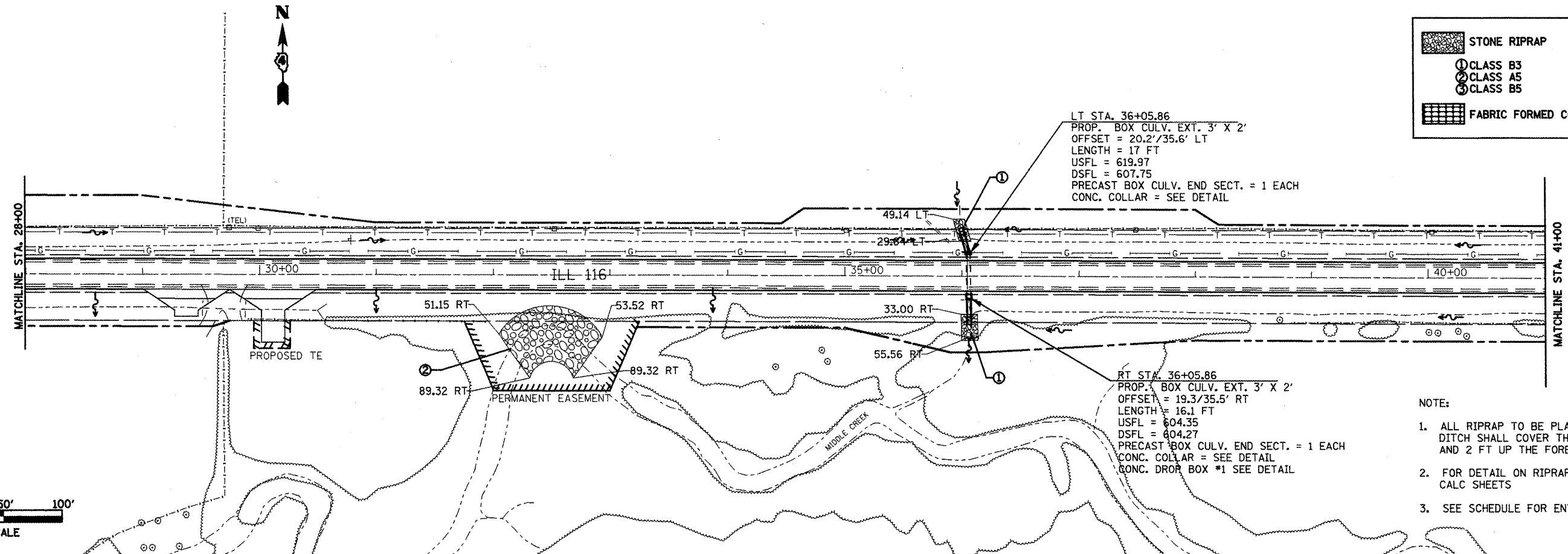
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 BY: _____
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 ALIGNED _____
 CHECKED _____
 PLOT. OF WAY CHECKED _____
 NO. _____
 PADD FILE NAME _____

DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 NO. _____
 STRUCTURE NOTATION: CRK

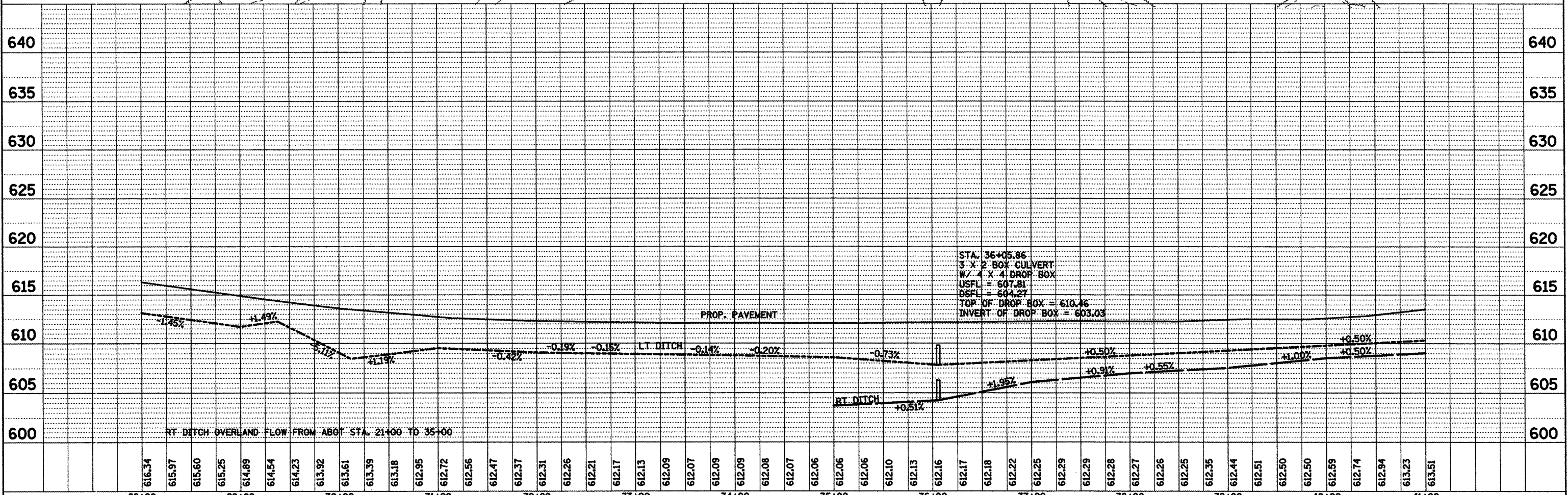
STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

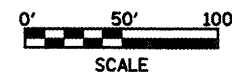
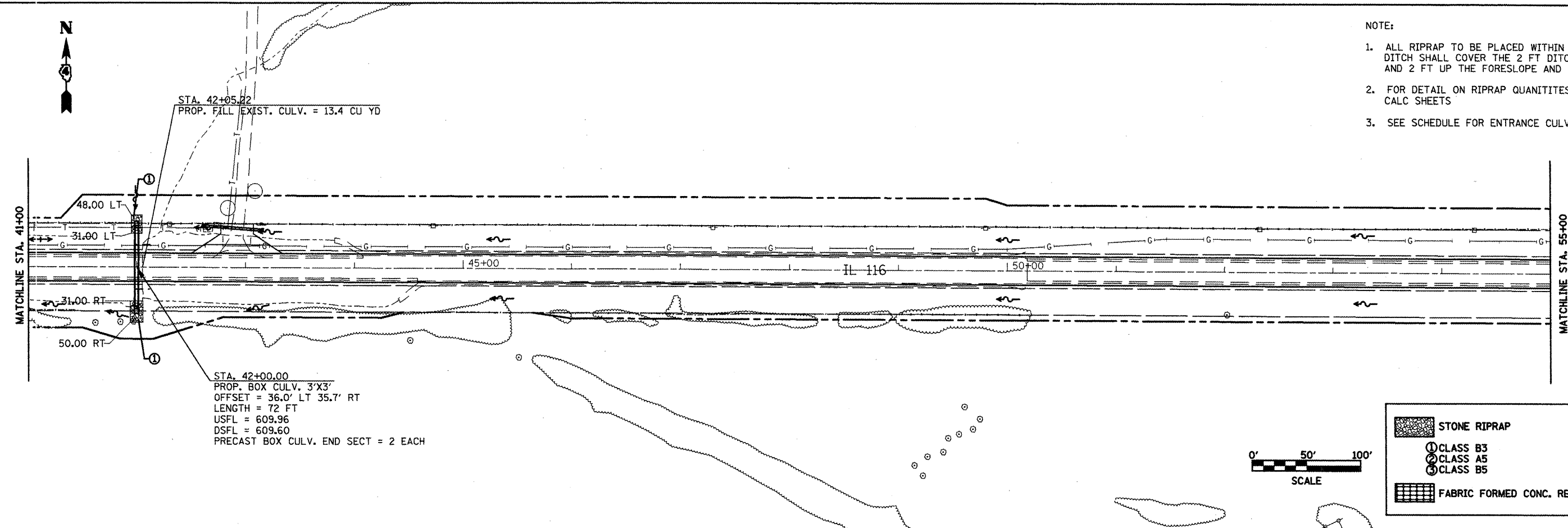


FILE NAME = draindetail.dgn	USER NAME = ghudnaem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 28+00 TO STA. 41+00		F.A.P. RTE. 665	SECTION 136.1377WARS-3136R1098R-1	COUNTY HENDERSON	TOTAL SHEETS 111	SHEET NO. 111
PLOT SCALE = 1/8" = 100' / IN.		CHECKED -	REVISED -				SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 88773		ILLINOIS FED. AID PROJECT
PLOT DATE = 2/27/2009		DATE -	REVISED -								

DATE: _____
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 SURVEYED _____
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 PLAN _____
 NOTE BOOK _____
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 PLOT FILE NAME _____

DATE: _____
 BY: _____
 SURVEYED _____
 GRADES CHECKED _____
 B.M. NOTED _____
 STRUCTURE NOTATION OK'D _____
 NO. _____
 PROFILE _____
 NOTE BOOK _____
 NO. _____

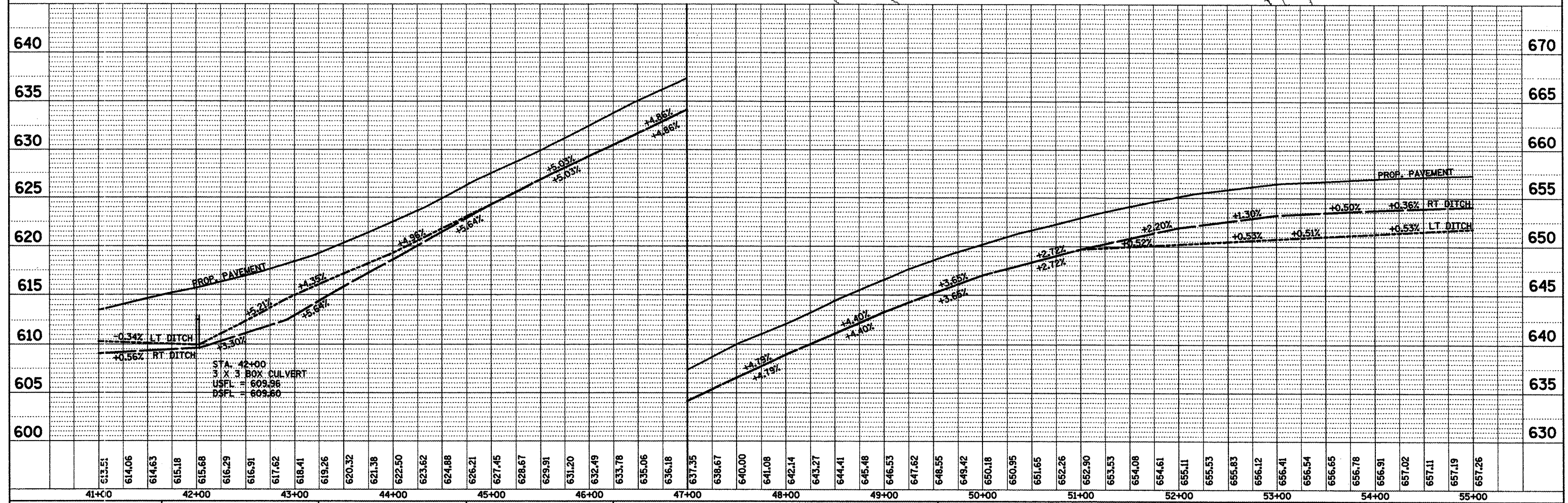
- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO



STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT

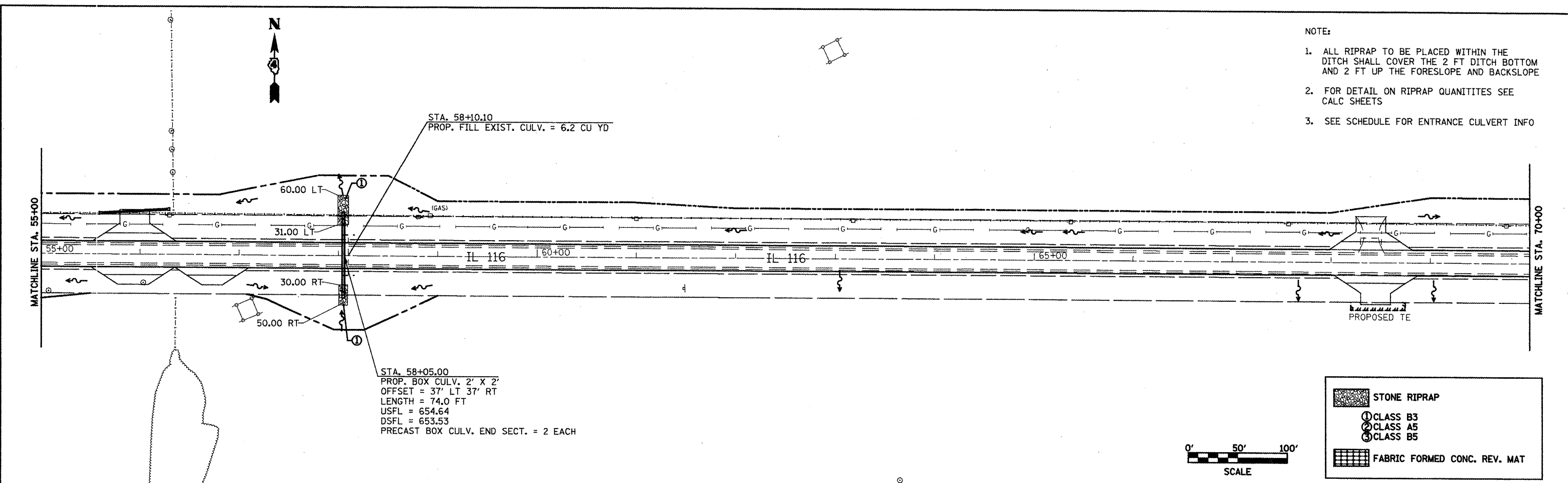


FILE NAME = d:\indetail.dgn	USER NAME = ghidnaem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 41+00 TO STA. 55+00	F.A.P. RTE. 665	SECTION 136.137W&RS-3d36R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 112	SHEET NO. 112
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 2/27/2009	DATE -	REVISED -	CONTRACT NO. 88773							

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 GRADES CHECKED _____
 B.M. NOTED _____
 CHECKED _____
 RT. OF WAY CHECKED _____
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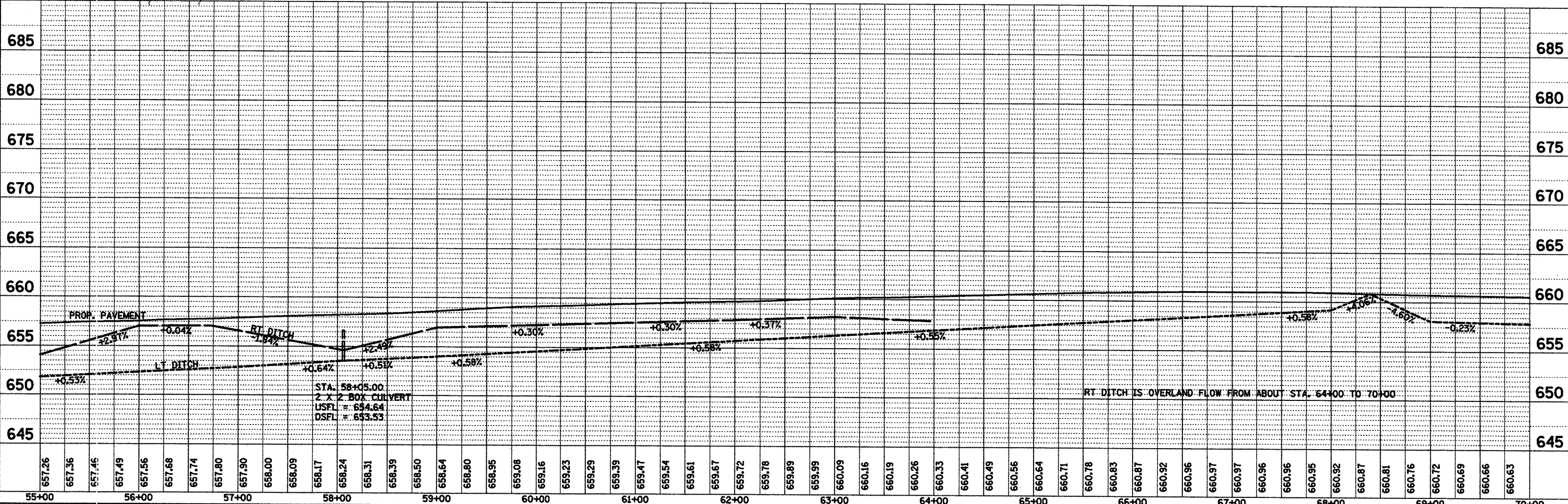
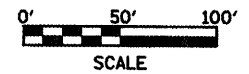
- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO



STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

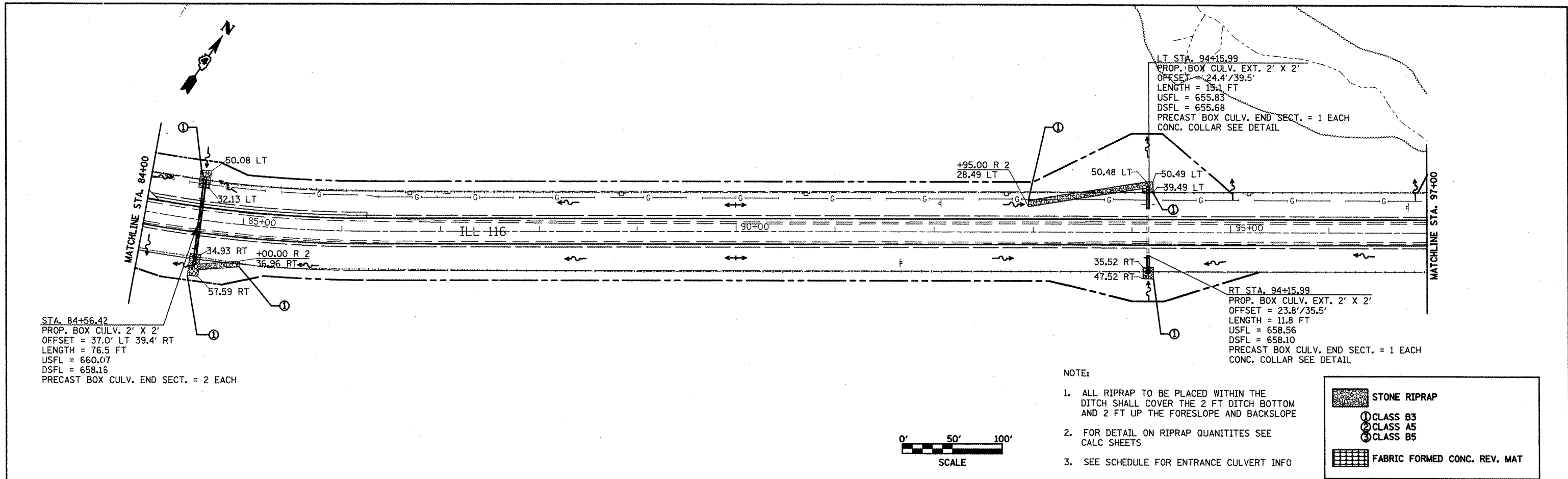
FABRIC FORMED CONC. REV. MAT



FILE NAME = d:\undetail.dgn	USER NAME = ghidnoam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 166 STA. 55+00 TO STA. 70+00	F.A.P. RTE. 665	SECTION (136.137)W&RS-31136R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 113	SHEET NO. 113
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 88773		
	PLOT DATE = 2/27/2009	CHECKED -	REVISED -							
		DATE -	REVISED -							

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BY	
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CONSTRUCTION	
OPERATION	
MAINTENANCE	
REVISION	
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STA. 84+56.42
 PROP. BOX CULV. 2' X 2'
 OFFSET = 37.0' LT 39.4' RT
 LENGTH = 76.5 FT
 USFL = 660.07
 DSFL = 658.16
 PRECAST BOX CULV. END SECT. = 2 EACH

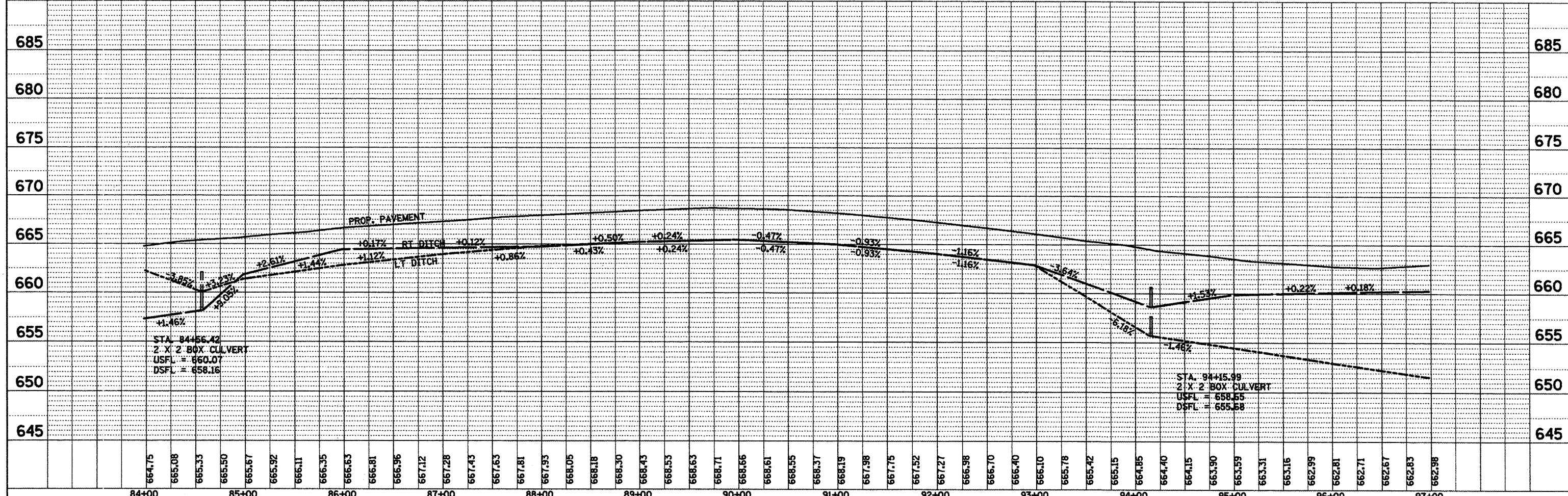
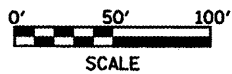
LT STA. 94+15.99
 PROP. BOX CULV. EXT. 2' X 2'
 OFFSET = 24.4'/39.5'
 LENGTH = 15.1 FT
 USFL = 655.83
 DSFL = 655.68
 PRECAST BOX CULV. END SECT. = 1 EACH
 CONC. COLLAR SEE DETAIL

RT STA. 94+15.99
 PROP. BOX CULV. EXT. 2' X 2'
 OFFSET = 23.8'/35.5'
 LENGTH = 11.8 FT
 USFL = 658.56
 DSFL = 658.10
 PRECAST BOX CULV. END SECT. = 1 EACH
 CONC. COLLAR SEE DETAIL

NOTE:

1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

	STONE RIPRAP
	CLASS B3
	CLASS A5
	CLASS B5
	FABRIC FORMED CONC. REV. MAT

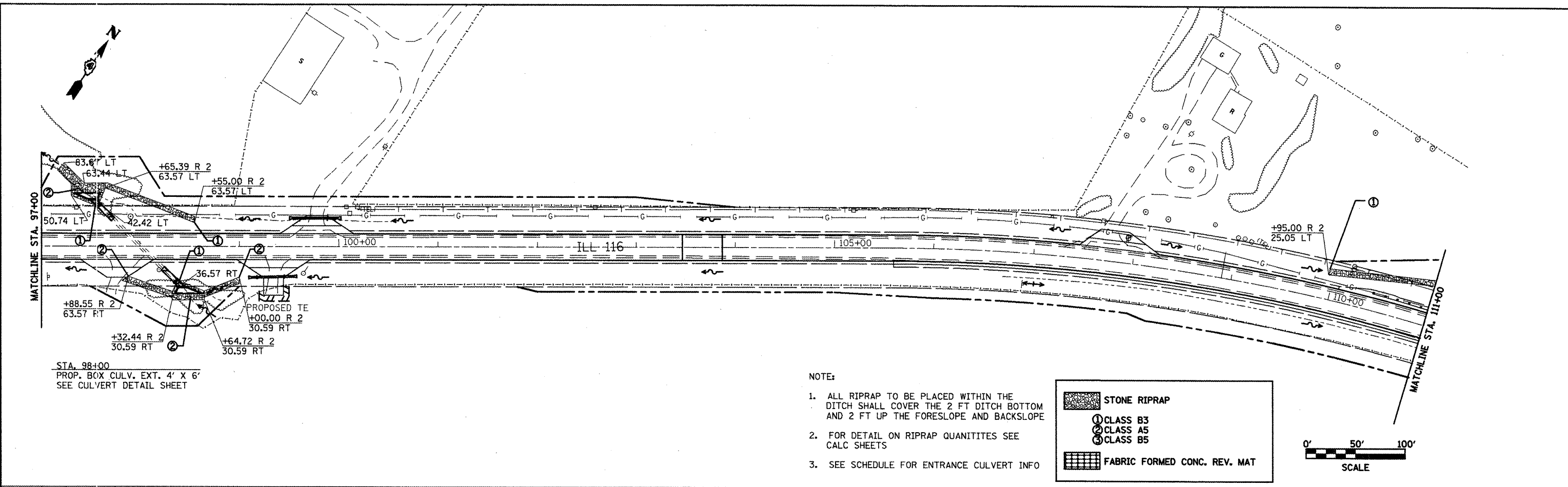


STA. 84+56.42
 2' X 2' BOX CULVERT
 USFL = 660.07
 DSFL = 658.16

STA. 94+15.99
 2' X 2' BOX CULVERT
 USFL = 658.56
 DSFL = 655.68

FILE NAME = d:\detail.dgn	USER NAME = ghadineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 84+00 TO STA. 97+00			F.A.P. RTE. 665	SECTION 136.137(WARS-3)136R109BR-1	COUNTY HENDERSON	TOTAL SHEETS	SHEET NO. 115			
		DRAWN -	REVISED -					SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 88773				
		CHECKED -	REVISED -												
		DATE -	REVISED -												

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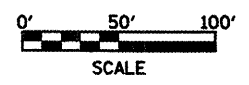


- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



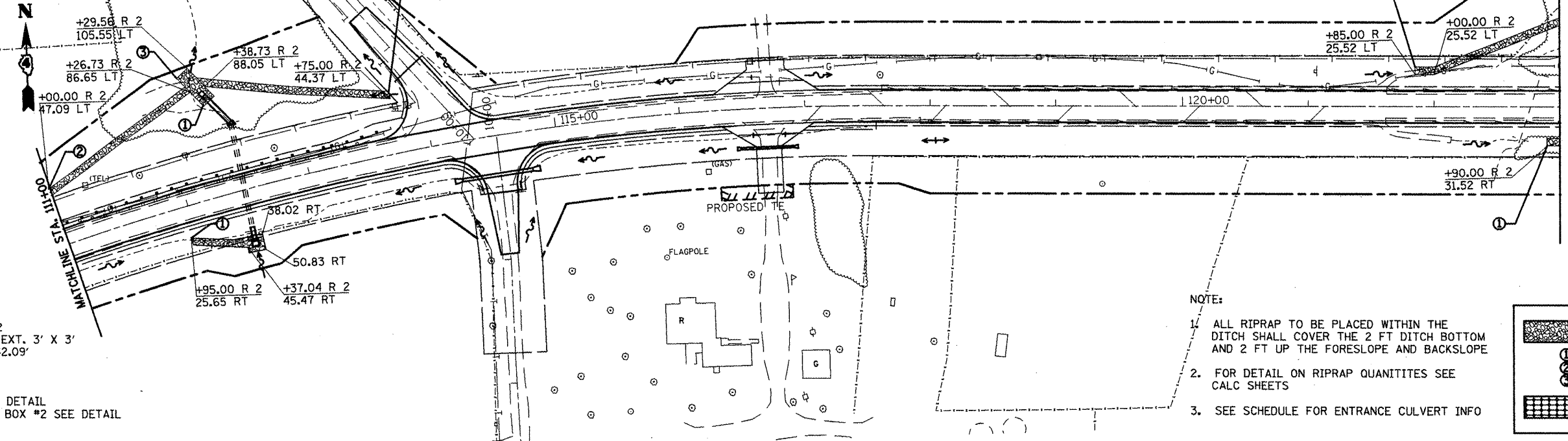
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DATE	
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REVISION	
PROFILE	
NO. _____	



FILE NAME = dr-andetail.dgn	USER NAME = ghdsnam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 97+00 TO STA. 111+00	F.A.P. RTE. 665	SECTION 036.1371WARS-3136R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 110	SHEET NO. 110
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 88773		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
	PLOT DATE = 2/27/2009	CHECKED -	REVISED -							
		DATE -	REVISED -							

LT. STA. 112+47.02
 PROP. BOX. CULV. EXT. 3' X 3'
 OFFSET = 52.65'/83.05'
 LENGTH = 30.6'
 USFL = 642.56
 DSFL = 640.54
 PRECAST BOX CULV. END SECT. = 1 EACH
 CONC. COLLAR SEE DETAIL

RT. STA. 112+47.02
 PROP. BOX. CULV. EXT. 3' X 3'
 OFFSET = 29.76'/42.09'
 LENGTH = 12.9'
 USFL = 657.39
 DSFL = 655.49
 CONC. COLLAR SEE DETAIL
 PROP. CONC. DROP BOX #2 SEE DETAIL

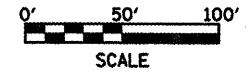


- NOTE:
- ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 - FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 - SEE SCHEDULE FOR ENTRANCE CULVERT INFO

STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



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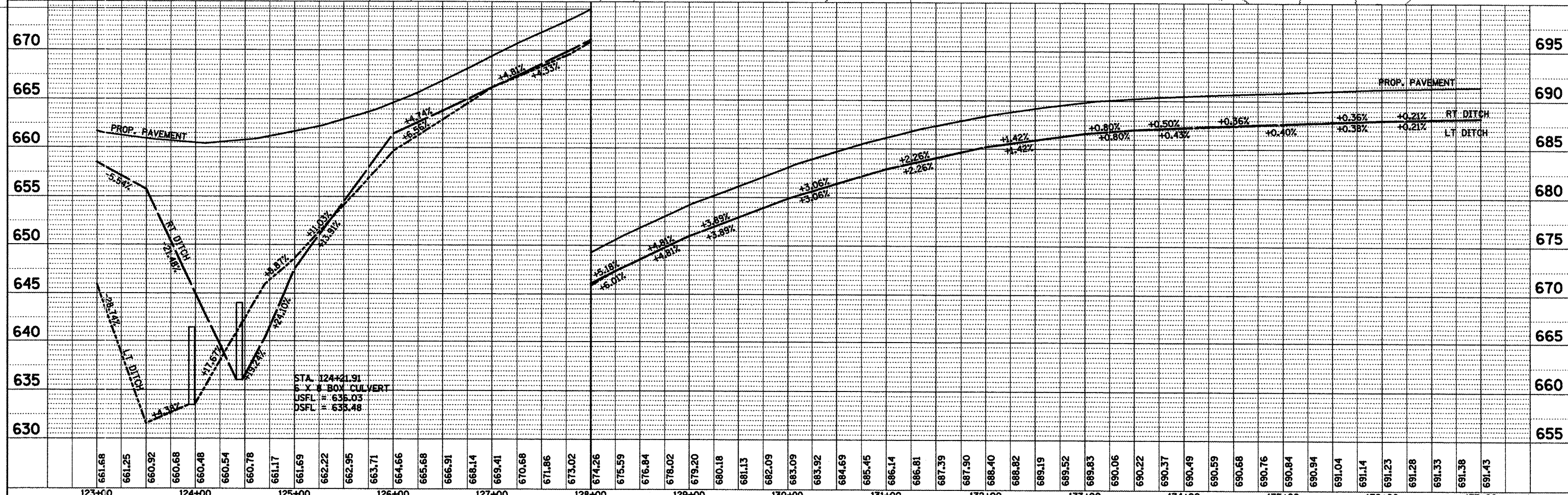
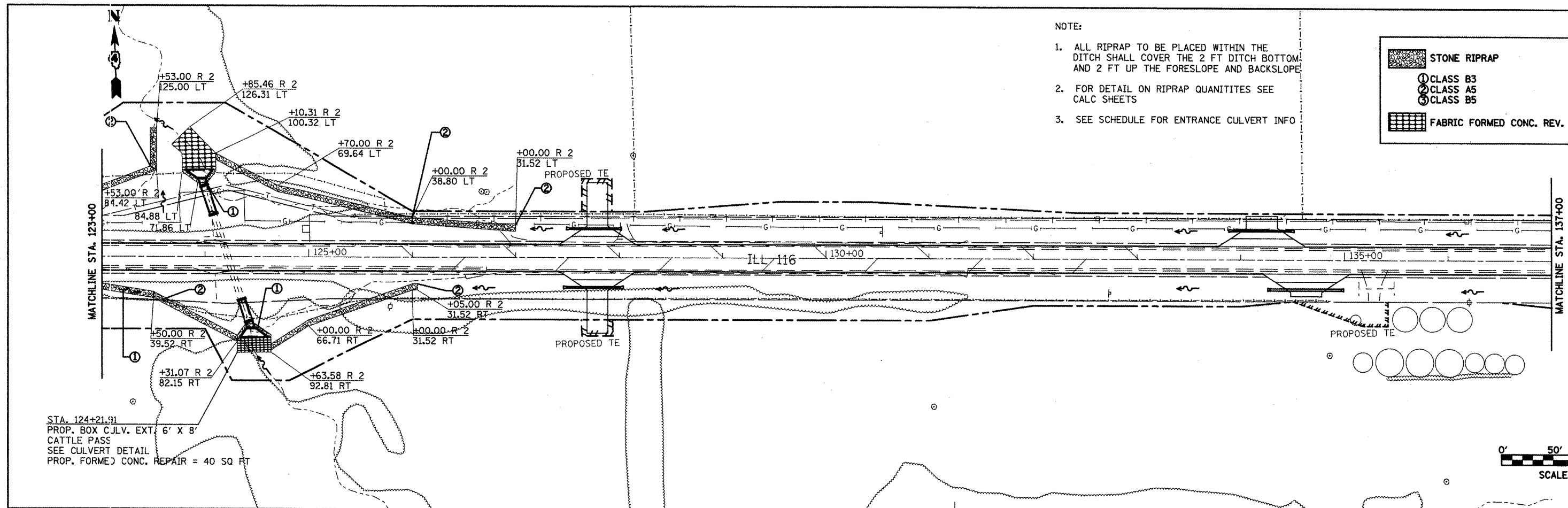
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FILE NAME = dr-and-deta1.dgn	USER NAME = ghudnaam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 111+00 TO STA. 123+00	F.A.P. RTE. 665	SECTION 036J137JW&RS-3436R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 117	SHEET NO. 117
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISOR -	DATE -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 88773		

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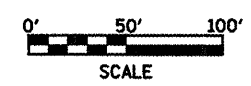
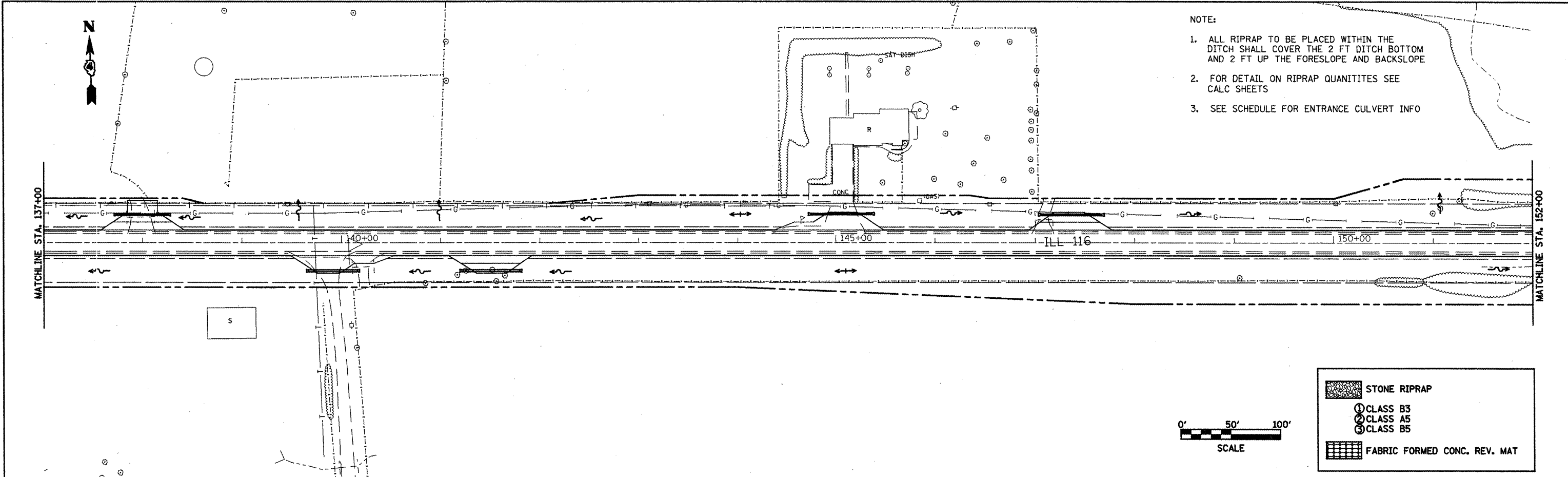


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PLOT SCALE = 100.0000' / IN. PLOT DATE = 2/27/2009				SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 88773		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

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PROFILE	SUBMITTED	DATE
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	BY	
	FILE NAME	

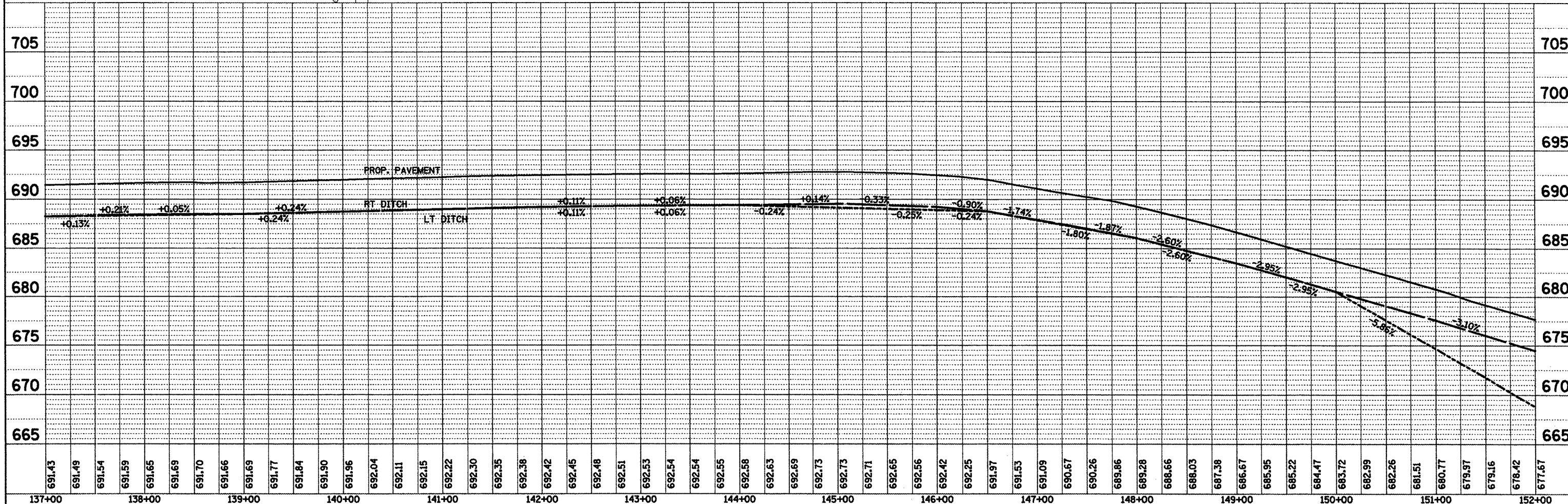
- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO



STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



FILE NAME = drsindetail.dgn	USER NAME = ghidnaam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 137+00 TO STA. 152+00	F.A.P. RTE. = 665	SECTION = 0136J137W&RS-3136R109BR-1	COUNTY = HENDERSON	TOTAL SHEETS = 119	SHEET NO. = 119
PLDT SCALE = 1/8" = 100' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. = ILLINOIS FED. AID PROJECT	CONTRACT NO. = 88773		
PLDT DATE = 2/27/2009	DATE -	REVISED -								

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GRADES CHECKED	
BLM NOTED	
STRUCTURE NOTATIONS CTRD	
NOTE BOOK	
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LT STA. 153+74.76
 PROP. BOX CULV. EXT. 4' X 4'
 OFFSET = 34.9'/49.5'/LT
 LENGTH = 14.7 FT
 USFL = 659.58
 DSFL = 658.86
 PRECAST BOX CULV. END SECT. = 1 EACH
 CONC. COLLAR SEE DETAIL

+20.05 R 2
 85.00 LT
 +88.46 R 2
 65.14 LT
 +59.67 R 2
 32.03 LT



RT STA. 153+74.76
 PROP. BOX CULV. EXT. 4' X 4'
 OFFSET = 22.8'/38.0' RT
 LENGTH = 15.3 FT
 USFL = 663.19
 DSFL = 662.43
 CONC. COLLAR SEE DETAIL
 PROP. DROP BOX #3 SEE DETAIL

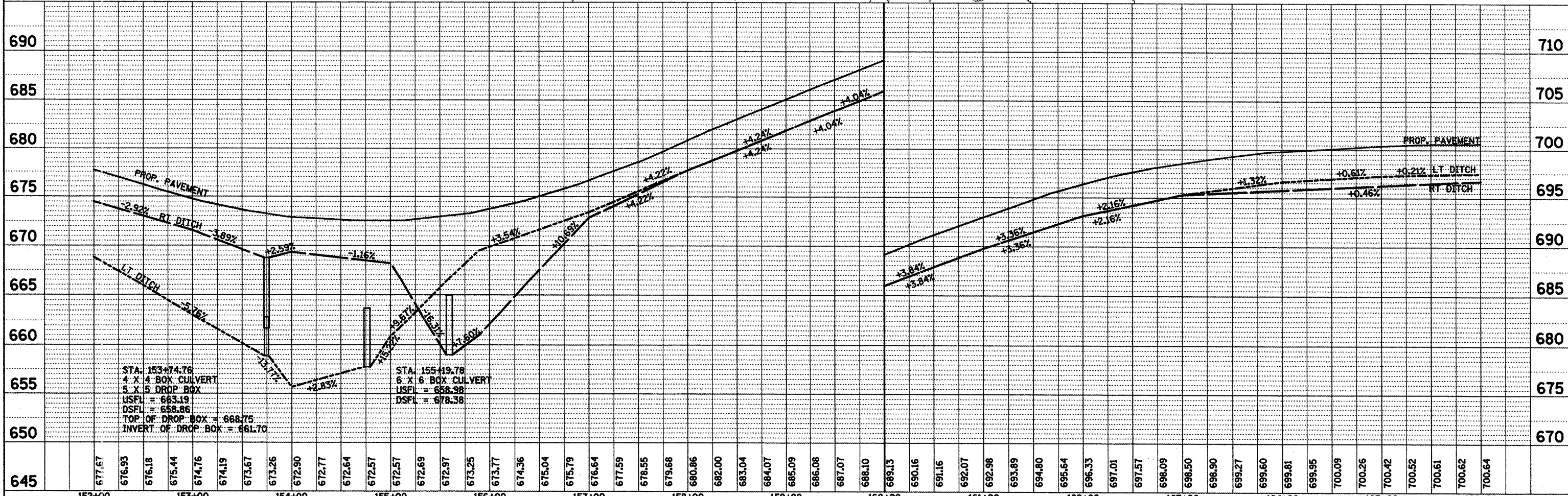
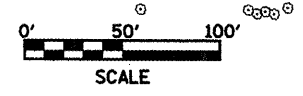
STA. 155+19.78
 PROP. BOX CULV. EXT. 6' X 6'
 SEE CULVERT DETAIL
 PROP. FORMED CONC. REPAIR = 30 SQ-FT

- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT



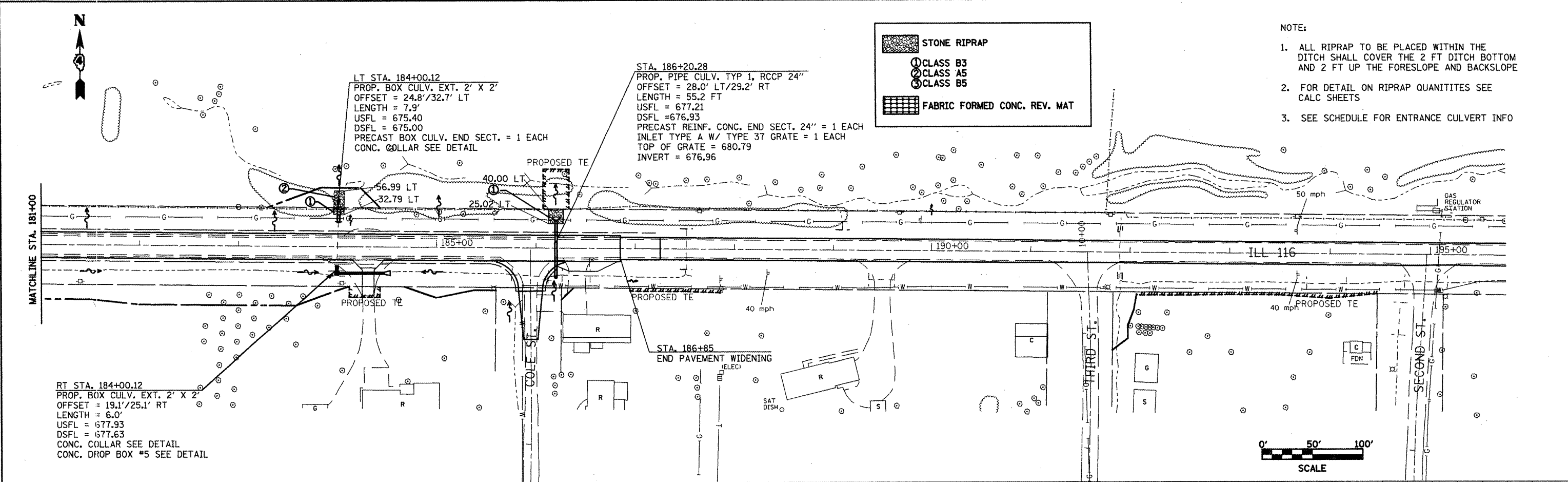
STA. 153+74.76
 4 X 4 BOX CULVERT
 5 X 5 DROP BOX
 USFL = 663.19
 DSFL = 658.86
 TOP OF DROP BOX = 668.75
 INVERT OF DROP BOX = 661.70

STA. 155+19.78
 6 X 6 BOX CULVERT
 USFL = 658.98
 DSFL = 678.38

FILE NAME = draindetail.dgn	USER NAME = ghdsnaen	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PROPOSED DRAINAGE IL 116 STA. 152+00 TO STA. 166+00		F.A.P. RTE. 665	SECTION IL136.1371WARS-34136R1098R-1	COUNTY HENDERSON	TOTAL SHEETS 120	SHEET NO. 120
PLOT SCALE = 1/8" = 100' / IN.		PLOT DATE = 2/27/2009		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 88773			

DATE	
BY	
PLAN	
SUBMITTED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
NO.	
NOTE BOOK	
NO.	
FILE NAME	

DATE	
BY	
PROFILE	
SUBMITTED	
PLOTTED	
CHANGES	
CHECKED	
STRUCTURE	
NOTATIONS	
CHRD	
NO.	
NOTE BOOK	
NO.	

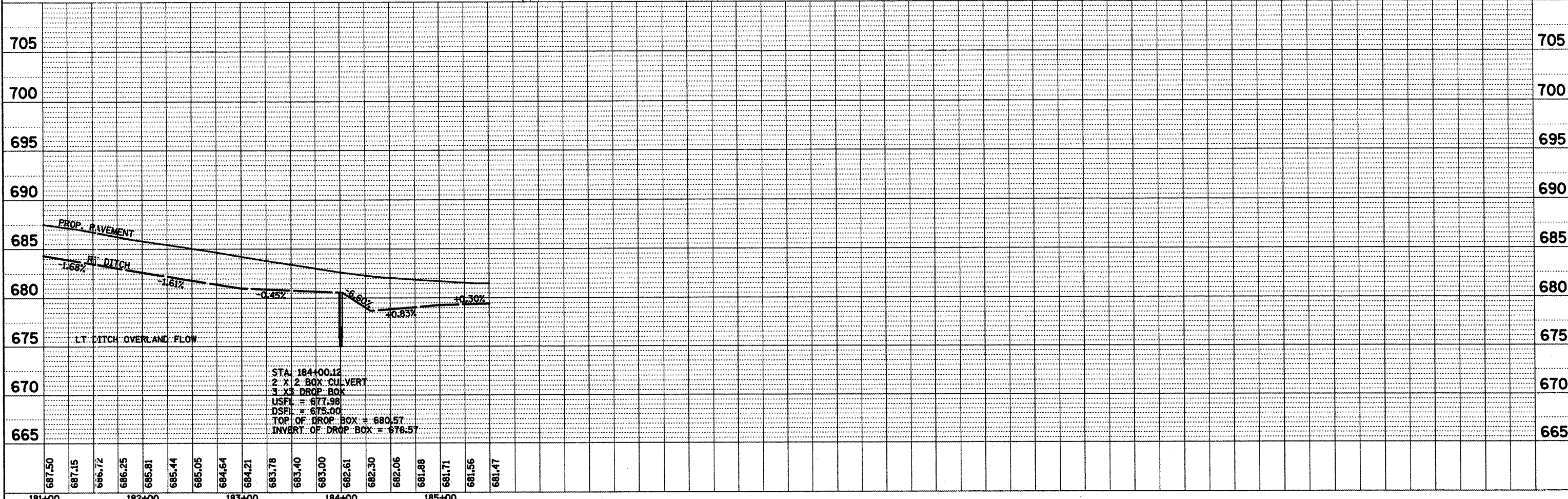
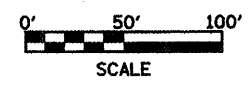


- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

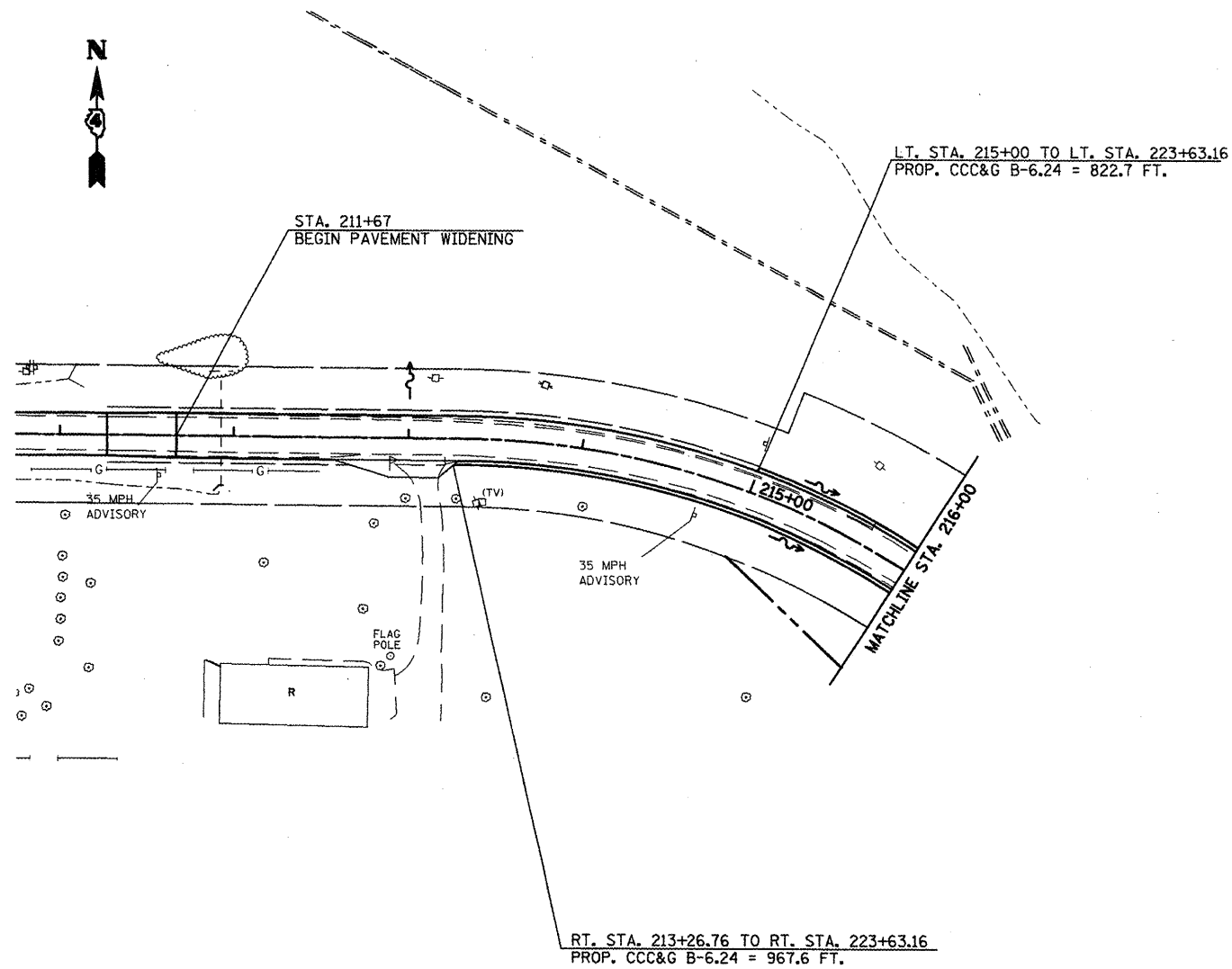
STONE RIPRAP

- ① CLASS B3
- ② CLASS A5
- ③ CLASS B5

FABRIC FORMED CONC. REV. MAT

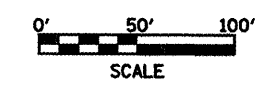


FILE NAME = dr-andetail.dgn	USER NAME = ghadineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 181+00 TO STA. 185+00		F.A.P. RTE. = 665	SECTION = 036,137WARS-3136R109BR-1	COUNTY = HENDERSON	TOTAL SHEETS = 122	SHEET NO. = 122
		DRAWN -	REVISED -				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
		CHECKED -	REVISED -		CONTRACT NO. 88773						
		DATE -	REVISED -								



- NOTE:
1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
 2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
 3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

	STONE RIPRAP
①	CLASS B3
②	CLASS A5
③	CLASS B5
	FABRIC FORMED CONC. REV. MAT



FILE NAME = draindetail.dgn	USER NAME = ghadineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE IL 116 STA. 211+67 TO STA. 216+00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			665	036,137/W&RS-3136R109BR-1	HENDERSON		123
PLOT DATE = 2/27/2009	DATE -	REVISED -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						CONTRACT NO. 88773				

PROP. PIPE UNDERDRAIN 4"
SEE SPECIAL PROVISION

LT. & RT. STA. 217+00 TO STA. 217+39 LENGTH = 78 FT.
LT. & RT. STA. 217+39 TO STA. 219+06 LENGTH = 334 FT.
LT. & RT. STA. 219+06 TO STA. 220+05 LENGTH = 198 FT.
LT. & RT. STA. 220+05 TO STA. 222+00 LENGTH = 390 FT.

THESE UNDERDRAINS ARE TO TIE INTO EACH DRAINAGE STRUCTURE.

STA. 219+06.49
LT STA. PROP. INLET-MANHOLE TYP G-1 SP. 5' DIA
TOP OF GRATE ELEV. = 690.29
INVERT ELEV. = 686.10

RT STA. PROP. INLET TYP G-1 SPL
TOP OF GRATE ELEV. = 689.29
INVERT ELEV. = 686.23

PROP. STORM SEWER TYP 1, CLASS A 18"
LENGTH = 26.4'
USFL = 686.44
DSFL = 686.31

STA. 220+04.98
LT STA. PROP. INLET TYP G-1 SPL.
TOP OF GRATE ELEV. = 691.39
INVERT ELEV. = 688.26

RT STA. PROP. INLET TYP G-1 SPL
TOP OF GRATE ELEV. = 691.23
INVERT ELEV. = 687.60

PROP. STORM SEWER TYP 1, CLASS A 18"
LENGTH = 27.0'
USFL = 688.47
DSFL = 688.30

STA. 222+50
LT. STA. INLET TYP G-1 SPL.
TOP OF GRATE ELEV. = 699.51
INVERT ELEV. = 695.67

RT STA. INLET TYP G-1 SPL.
TOP OF GRATE ELEV. = 699.51
INVERT ELEV. = 695.87

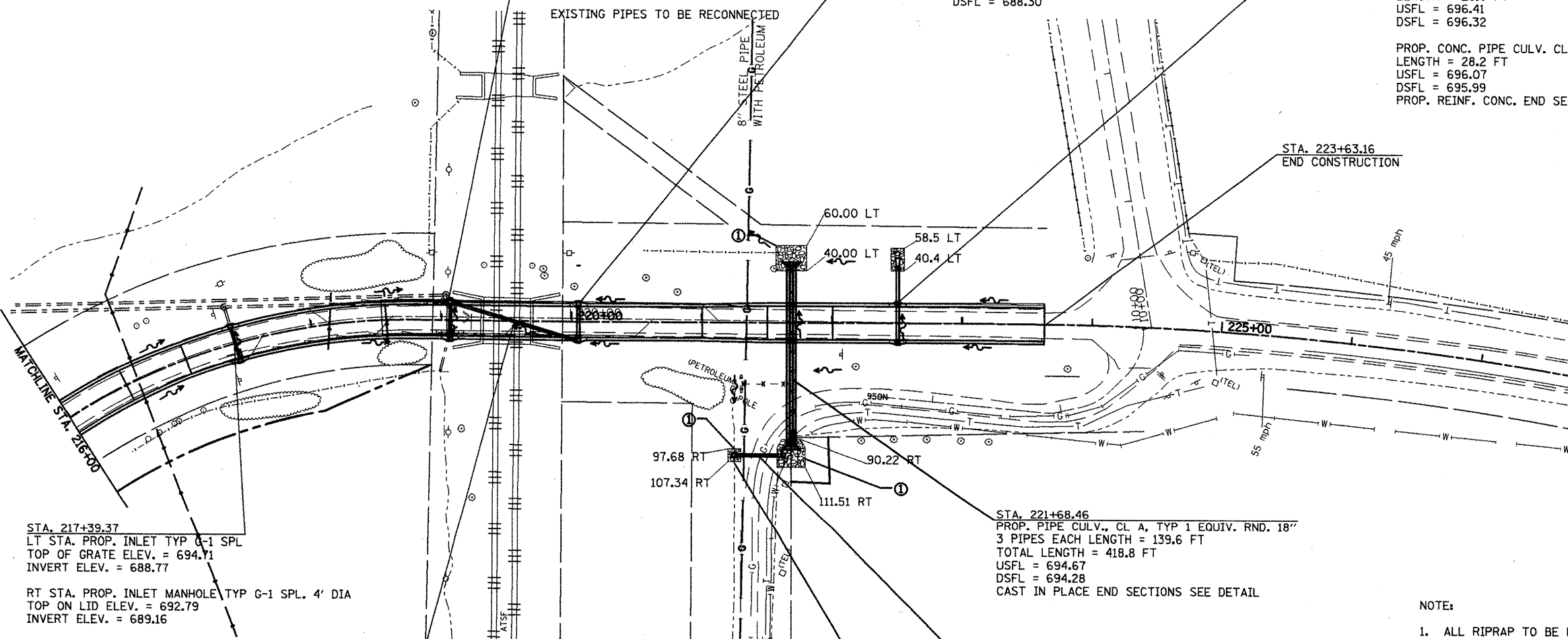
PROP. CONC. PIPE CULV. CL A, TYP 1, 18"
LENGTH = 29.0 FT
USFL = 696.41
DSFL = 696.32

PROP. CONC. PIPE CULV. CL A, TYP 1, 18"
LENGTH = 28.2 FT
USFL = 696.07
DSFL = 695.99
PROP. REINF. CONC. END SECT 18" = 1 EACH

EXISTING PIPES TO BE RECONNECTED

8" STEEL PIPE WITH PETROLEUM

STA. 223+63.16
END CONSTRUCTION



STA. 217+39.37
LT STA. PROP. INLET TYP G-1 SPL
TOP OF GRATE ELEV. = 694.71
INVERT ELEV. = 688.77

RT STA. PROP. INLET MANHOLE TYP G-1 SPL. 4' DIA
TOP ON LID ELEV. = 692.79
INVERT ELEV. = 689.16

PROP. STORM SEWER TYP 1, CLASS A 18"
LENGTH = 27.0'
USFL = 689.37
DSFL = 689.24

EXISTING PIPES TO BE RECONNECTED

STA. 219+07.99 LT 14.0' TO STA. 220+04.00 RT 14.2'
PROP. STORM SEWER TYP 1, CLASS A 18"
LENGTH = 100.1 FT
USFL = 687.81
DSFL = 686.81

STA. 221+68.46
PROP. PIPE CULV., CL A, TYP 1 EQUIV. RND. 18"
3 PIPES EACH LENGTH = 139.6 FT
TOTAL LENGTH = 418.8 FT
USFL = 694.67
DSFL = 694.28
CAST IN PLACE END SECTIONS SEE DETAIL

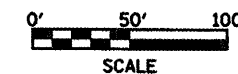
RT STA. 221+25.61 TO 221+57.53
PROP. CONC. PIPE CULV. 18"
OFFSET = 102.51
LENGTH = 31.9 FT
USFL = 695.49
DSFL = 694.83
PRECAST REINF. CONC. END SECT 18" = 1 EACH

RT STA. 221+24.61 OFFSET = 102.51' RT
PROP. CONC. DROP BOX #6 SEE DETAIL

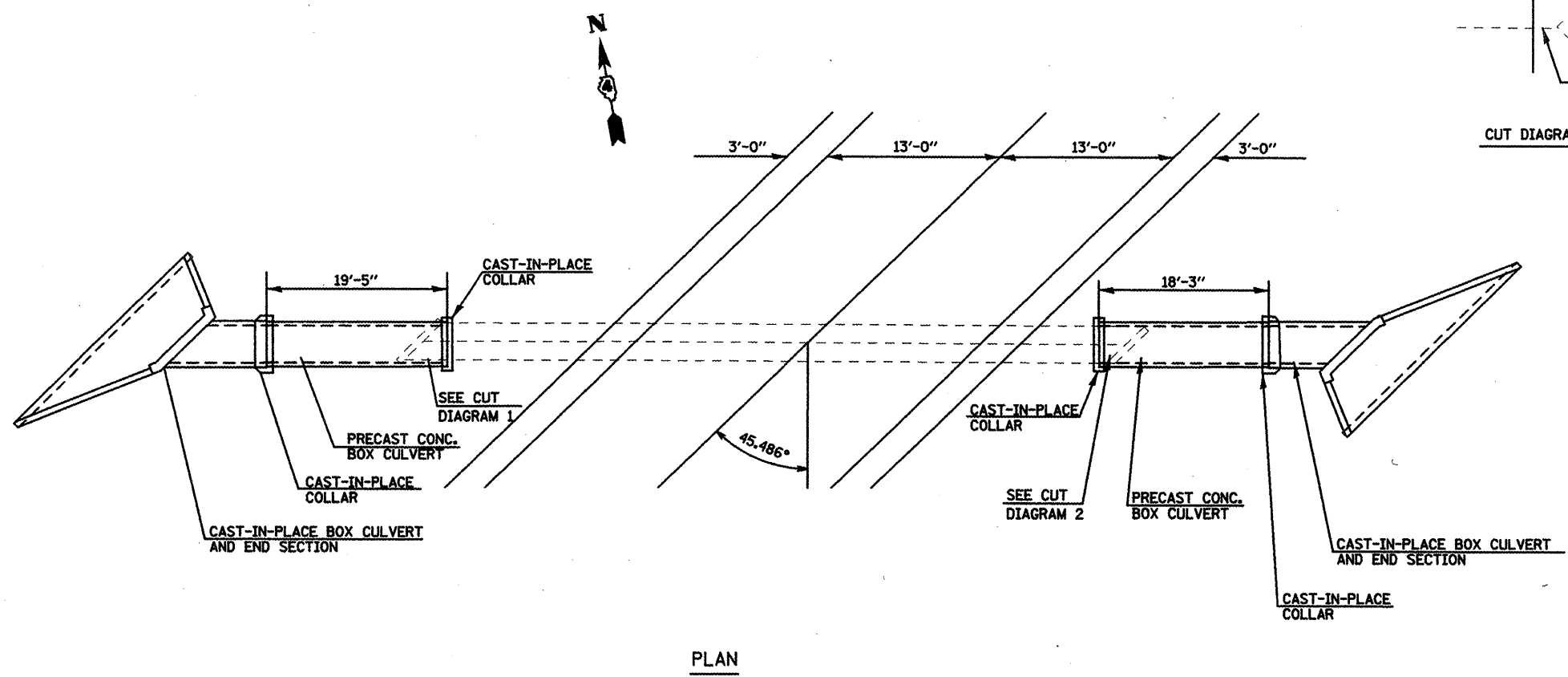
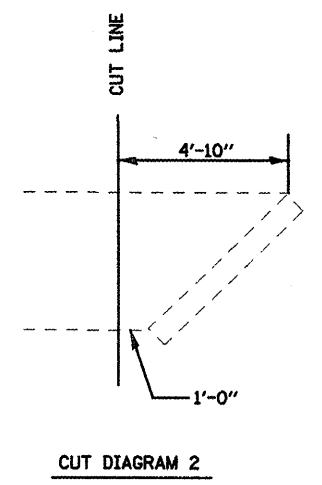
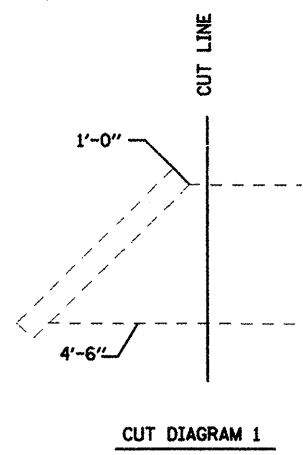
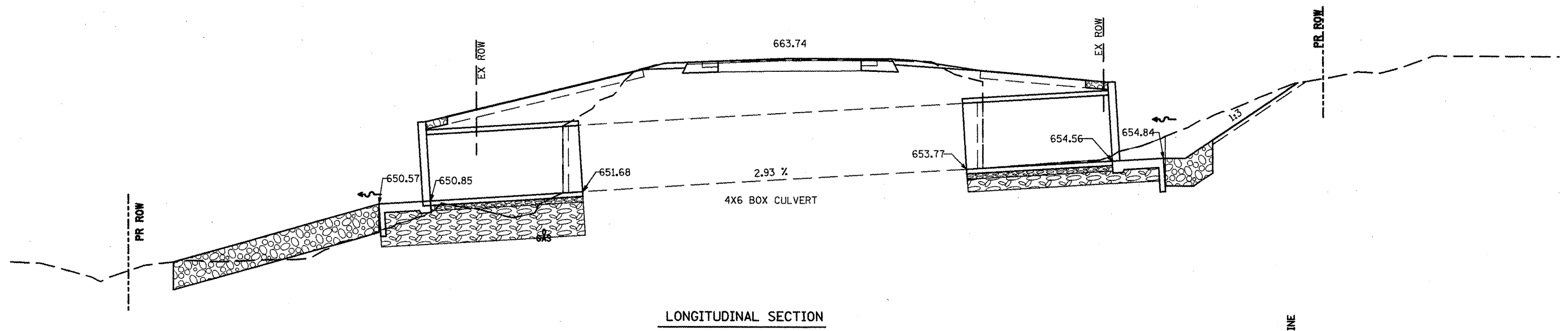
NOTE:

1. ALL RIPRAP TO BE PLACED WITHIN THE DITCH SHALL COVER THE 2 FT DITCH BOTTOM AND 2 FT UP THE FORESLOPE AND BACKSLOPE
2. FOR DETAIL ON RIPRAP QUANTITIES SEE CALC SHEETS
3. SEE SCHEDULE FOR ENTRANCE CULVERT INFO

	STONE RIPRAP
	CLASS B3
	CLASS A5
	CLASS B5
	FABRIC FORMED CONC. REV. MAT

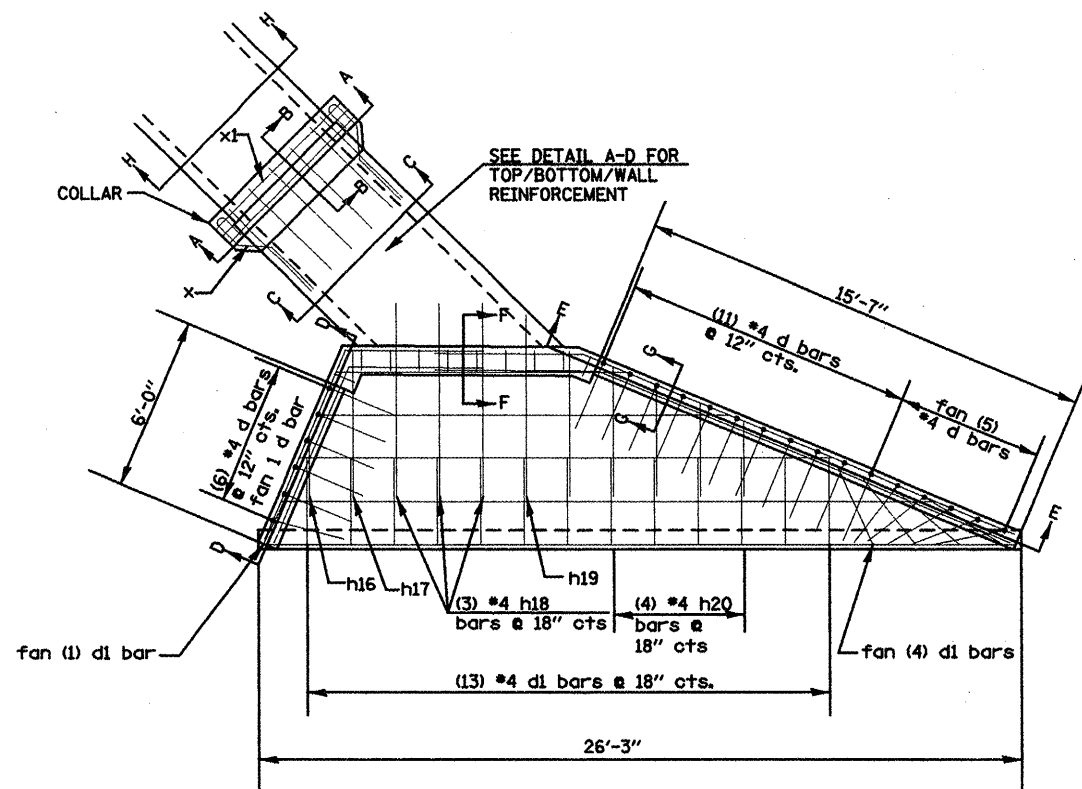


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	PLOT SCALE = 1/8" = 100.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 88773		
	PLOT DATE = 2/27/2009	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								

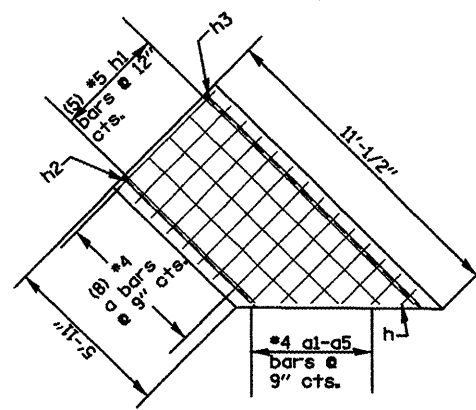


DRAWING NOT TO SCALE

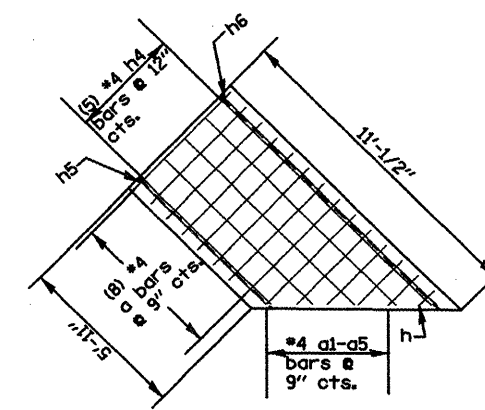
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	PLLOT SCALE = 1/80.0000' / IN.	DRAWN -	REVISED -			665	4136.137W&RS-3136R109BR-1	HENDERSON		125	
	PLLOT DATE = 1/28/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



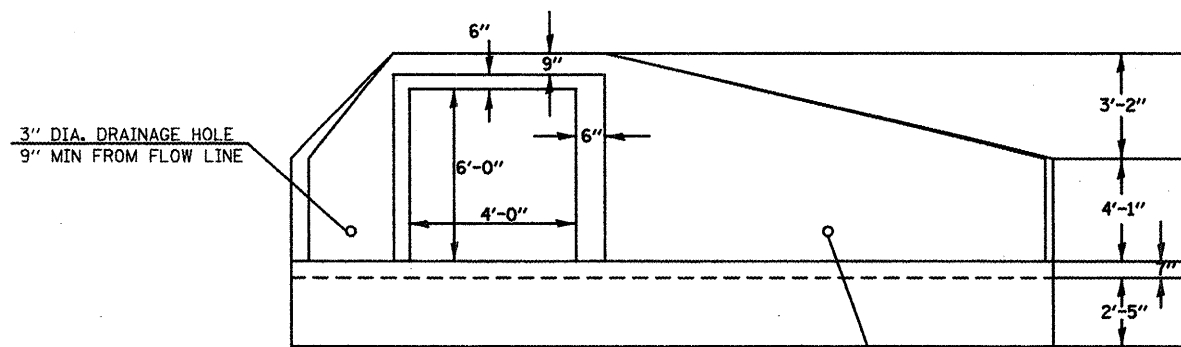
PLAN VIEW



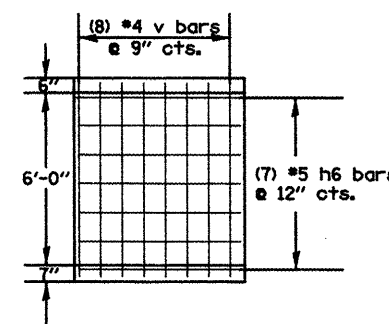
DETAIL A
TOP SLAB
REINFORCEMENT



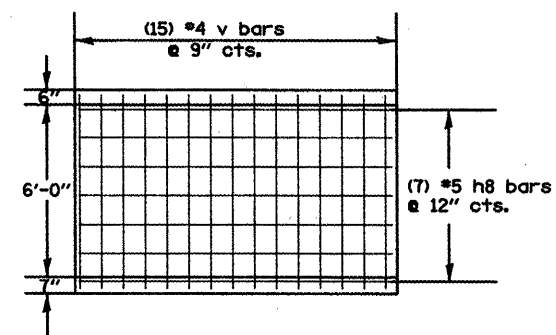
DETAIL B
BOTTOM SLAB
REINFORCEMENT



END ELEVATION



DETAIL C
SHORT WALL
REINFORCEMENT

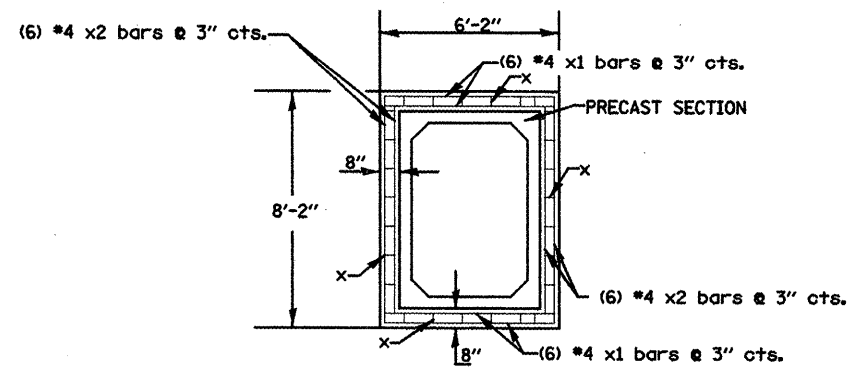


DETAIL D
LONG WALL
REINFORCEMENT

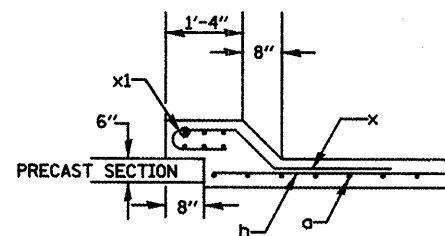
NOTE
INCLUDE 1 DRAINAGE HOLE WITHIN EACH
WALL OF THE CAST-IN-PLACE BARREL SECTION
9" MIN FROM FLOW LINE.

DRAWING NOT TO SCALE

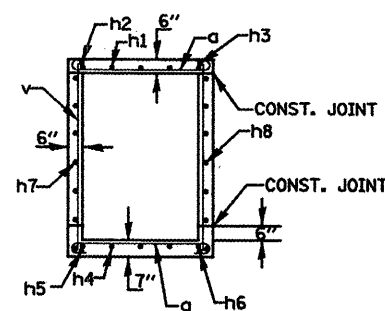
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	PLLOT SCALE = 1/80.0000' / IN.	DRAWN -	REVISED -			665	(136.137)WARS-3136R1098R-1	HENDERSON		12/6	
	PLLOT DATE = 1/20/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO
						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					



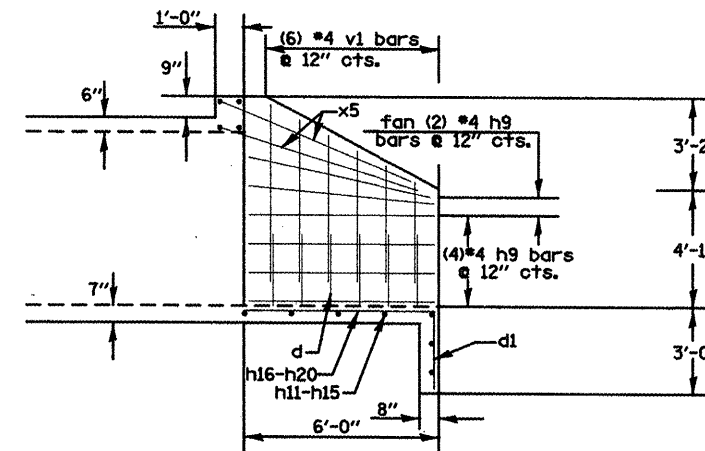
SECTION A-A
COLLAR CONNECTION TO
PRECAST CULVERT SECTION



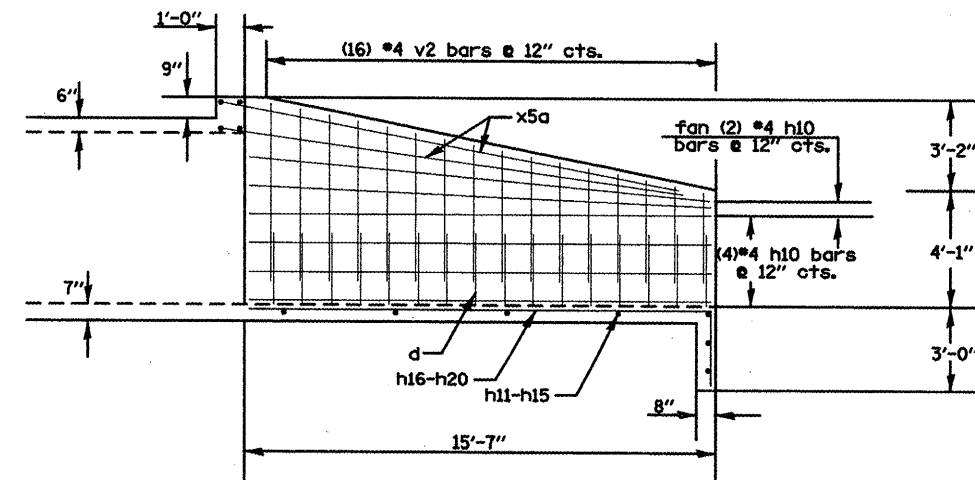
SECTION B-B
CONNECTION OF PRECAST BOX
CULVERT AND CAST-IN-PLACE COLLAR



SECTION C-C
CAST-IN-PLACE
BARREL SECTION



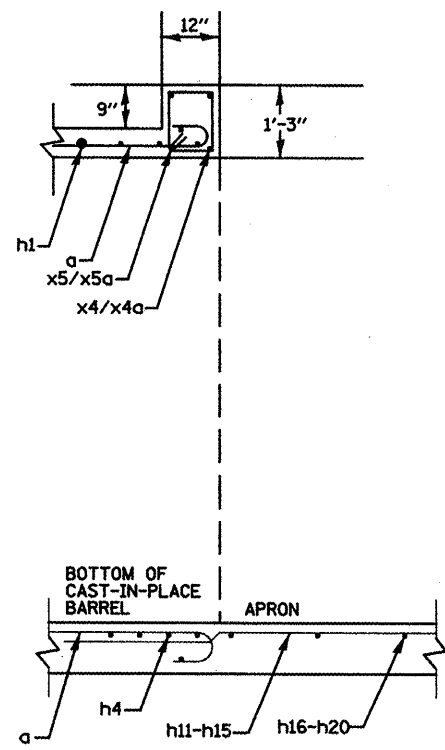
SECTION D-D
SHORT WINGWALL
OUTSIDE WALL



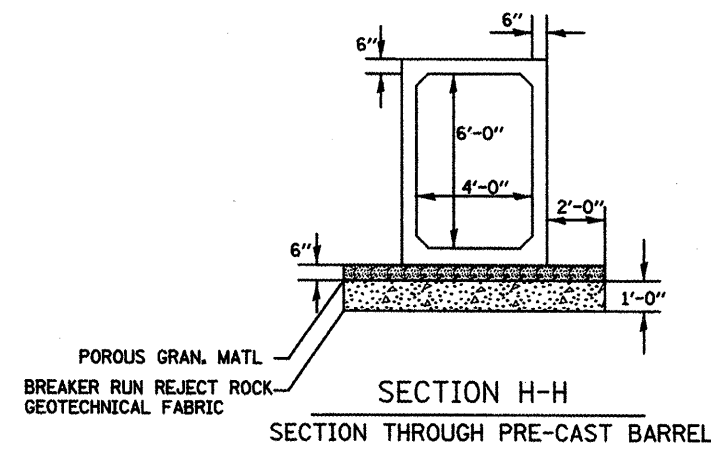
SECTION E-E
LONG WINGWALL
OUTSIDE WALL

DRAWING NOT TO SCALE

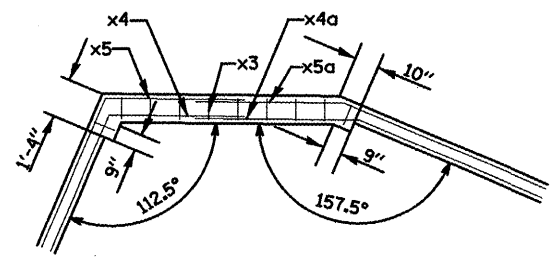
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		DRAWN -	REVISED -			665	1136.137/W&RS-3/136R/109BR-1	HENDERSON		127	
		CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.				



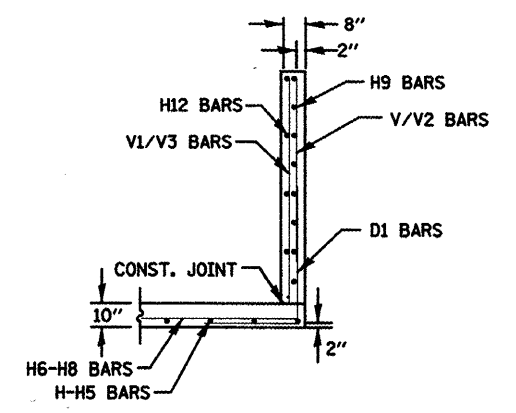
SECTION F-F
HEADWALL & APRON
CONNECTION TO COLLAR



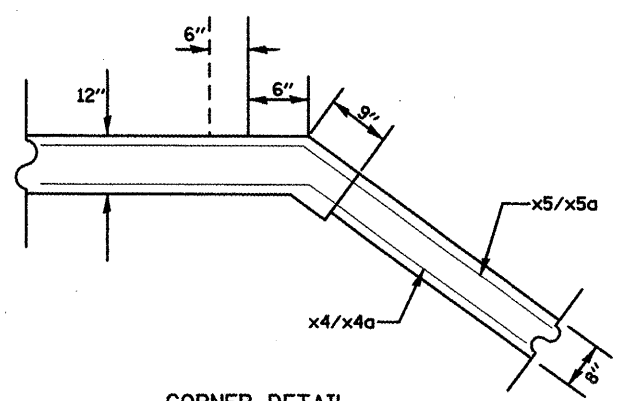
SECTION H-H
SECTION THROUGH PRE-CAST BARREL



HEADWALL



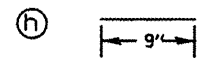
SECTION G-G
WINGWALL CONNECTION
TO APRON



CORNER DETAIL
(TYPICAL BOTH CORNERS)

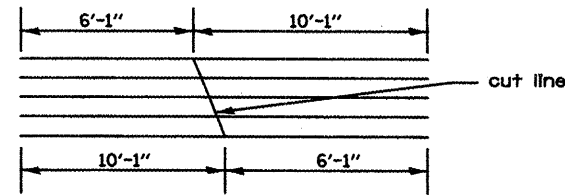
DRAWING NOT TO SCALE

FILE NAME = d:\mindetail.dgn	USER NAME = ghdineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STA. 98+00 4' X 6' BOX CULVERT EXTENSION DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			665	136.137/WARS-3136R1098R-1	HENDERSON		128	
	PLOT DATE = 1/28/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



*4 @ 9" cts - 2 bars req.

h1 *5 @ 12" cts. 5 bars req. to be cut into 10 bars total

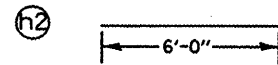


h11 - h15 *4 @ 18" cts.

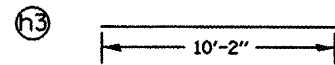


Bar	Length
h11	10'-0"
h12	14'-3"
h13	18'-4"
h14	22'-6"
h15	26'-0"

h11-h14: 1 bar of each length is req.
h15: 3 bars of stated length req.
lengths given in this chart do not include extra length for lapping bars.

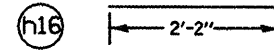
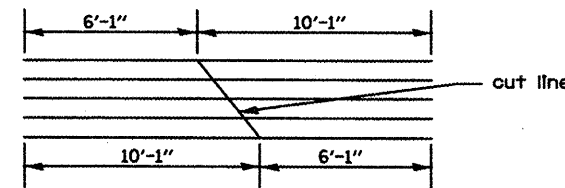


*5 - 1 bar req.

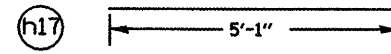


*5 - 1 bar req.

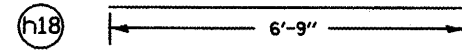
h4 *4 @ 12" cts. 5 bars req. to be cut into 10 bars total



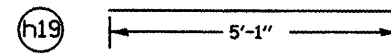
*4 @ 18" cts. 1 bar req.



*4 @ 18" cts. 1 bar req.

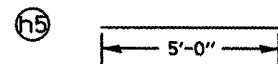
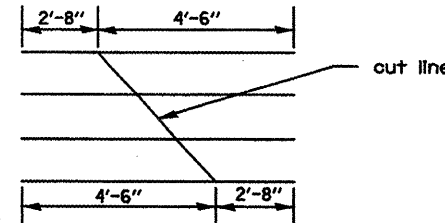


*4 @ 18" cts. 3 bars req.

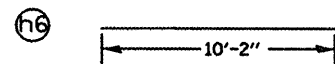


*4 @ 18" cts. 1 bar req.

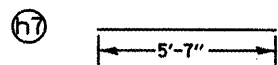
h20 *4 @ 18" cts. 4 bars req. to be cut into 8 bars total



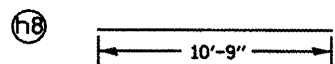
*4 - 1 bar req.



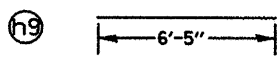
*4 - 1 bar req.



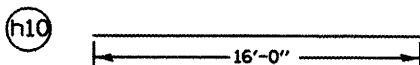
*5 @ 6" cts. 7 bars req.



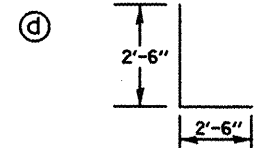
*5 @ 6" cts. 7 bars req.



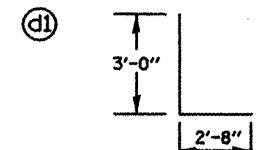
*4 @ 12" cts. 6 bars req.



*4 @ 12" cts. 6 bars req.



*4 @ 12" cts. 22 bars req.

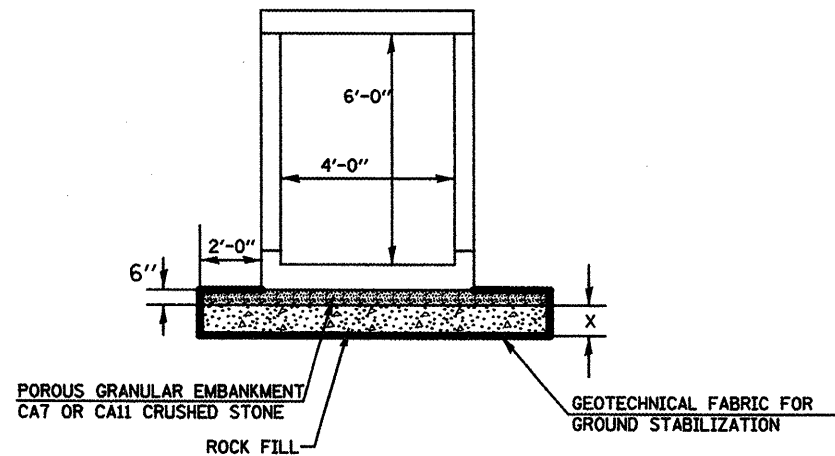


*4 @ 18" cts. 18 bars req.

BILL OF MATERIAL					
BAR	SIZE	LENGTH	NORTH SIDE NO.	SOUTH SIDE NO.	SHAPE
a	4	5'-8"	16	16	U
a1	4	5'-4"	2	2	U
a2	4	4'-8"	2	2	U
a3	4	3'-10"	2	2	U
a4	4	3'-2"	2	2	U
a5	4	2'-5"	2	2	U
x	4	5'-2"	26	26	L
x1	4	5'-10"	12	12	L
x2	4	7'-10"	12	12	L
x3	4	4'-0"	10	10	L
x4	4	11'-4"	2	2	L
x4a	4	21'-0"	2	2	L
x5	4	11'-9"	2	2	L
x5a	4	21'-3"	2	2	L
v	4	6'-9"	24	24	L
v1	4	9'-8"	6	6	L
v2	4	9'-5"	16	16	L
h	4	9"	2	2	L
h1	5	16'-2"	5	5	L
h2	5	6'-0"	1	1	L
h3	5	10'-2"	1	1	L
h4	4	16'-2"	5	5	L
h5	4	5'-0"	1	1	L
h6	4	10'-2"	1	1	L
h7	5	5'-7"	7	7	L
h8	5	10'-9"	7	7	L
h9	4	6'-5"	6	6	L
h10	4	16'-0"	6	6	L
h11	4	10'-0"	1	1	L
h12	4	14'-3"	1	1	L
h13	4	18'-4"	1	1	L
h14	4	22'-6"	1	1	L
h15	4	26'-0"	3	3	L
h16	4	2'-2"	1	1	L
h17	4	5'-1"	1	1	L
h18	4	6'-9"	3	3	L
h19	4	5'-1"	1	1	L
h20	4	7'-2"	4	4	L
d	4	5'-0"	22	22	L
d1	4	5'-8"	18	18	L
CONC. BOX CULV. YD ³			14.1	14.1	
REINFORCEMENT BARS			LBS		2324
CONC. BOX CULV.			YD ³		28.2

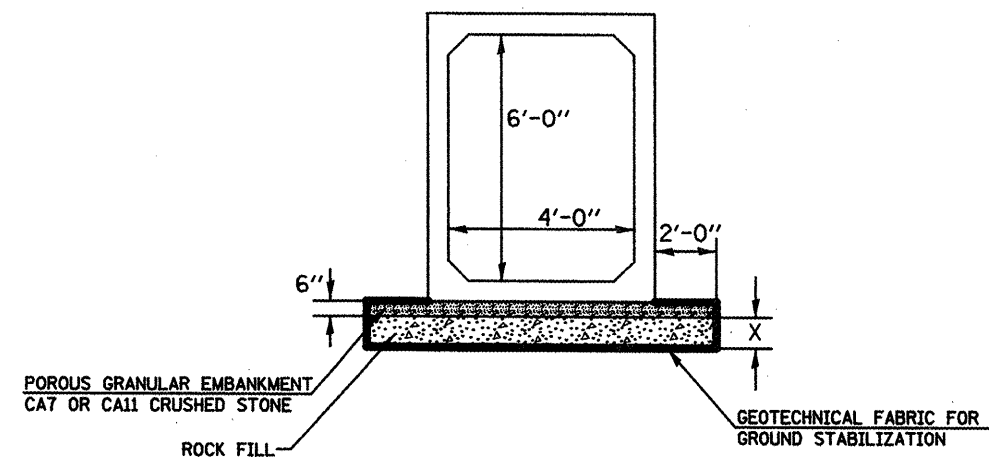
*Refer to cut diagram for total amount of rebar required.

DRAWING NOT TO SCALE



CAST-IN-PLACE BARREL SECTION

LEFT SIDE X = 3'-0"
RIGHT SIDE X = 1'-2"



PRECAST BARREL SECTION

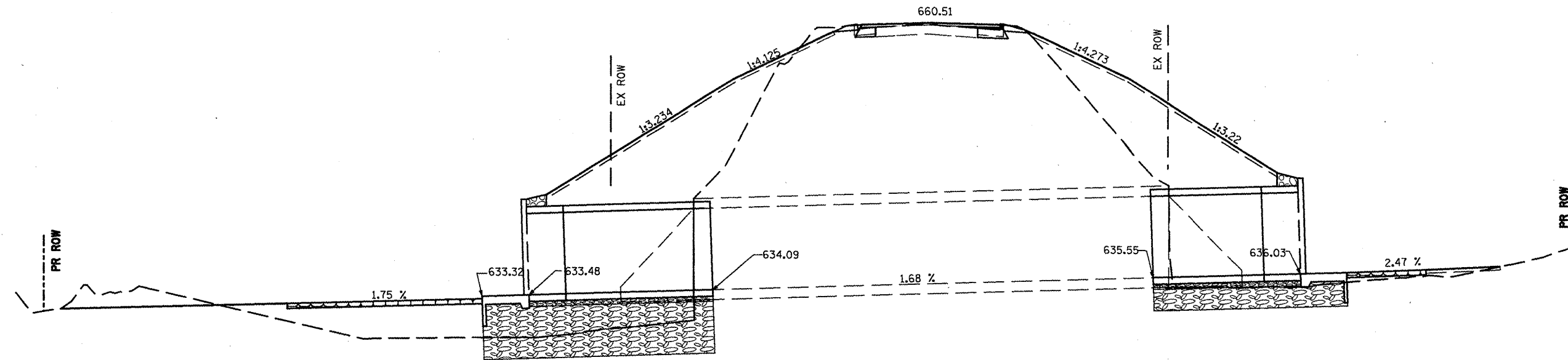
LEFT SIDE X = 3'-0"
RIGHT SIDE X = 1'-2"

NOTES:

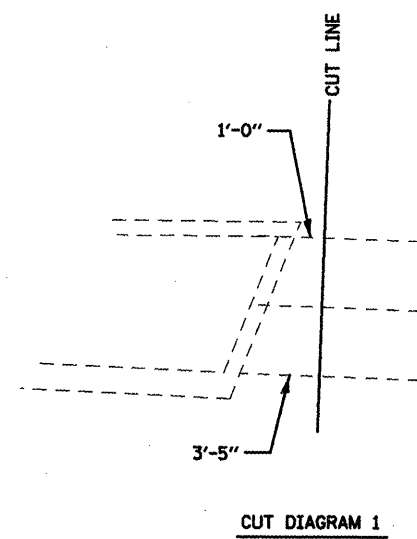
1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATION. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM. POROUS GRANULAR EMBANKMENT REQUIRED FOR THE CAST-IN-PLACE BOX CULVERT AND END SECTION SHALL BE PAID FOR SEPARATELY.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. A DEPTH OF 2 FEET AROUND CULVERT WAS ASSUMED TO BE UNSUITABLE THE ROCK FILL AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PAID SEPARATELY.
5. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

LOCATION	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL
	TON	TON	SQ YD	CU YD
LT. STA. 98+00	115.2	12.7	135.2	201.6
RT. STA. 98+00	44.0	12.7	106.7	167.1

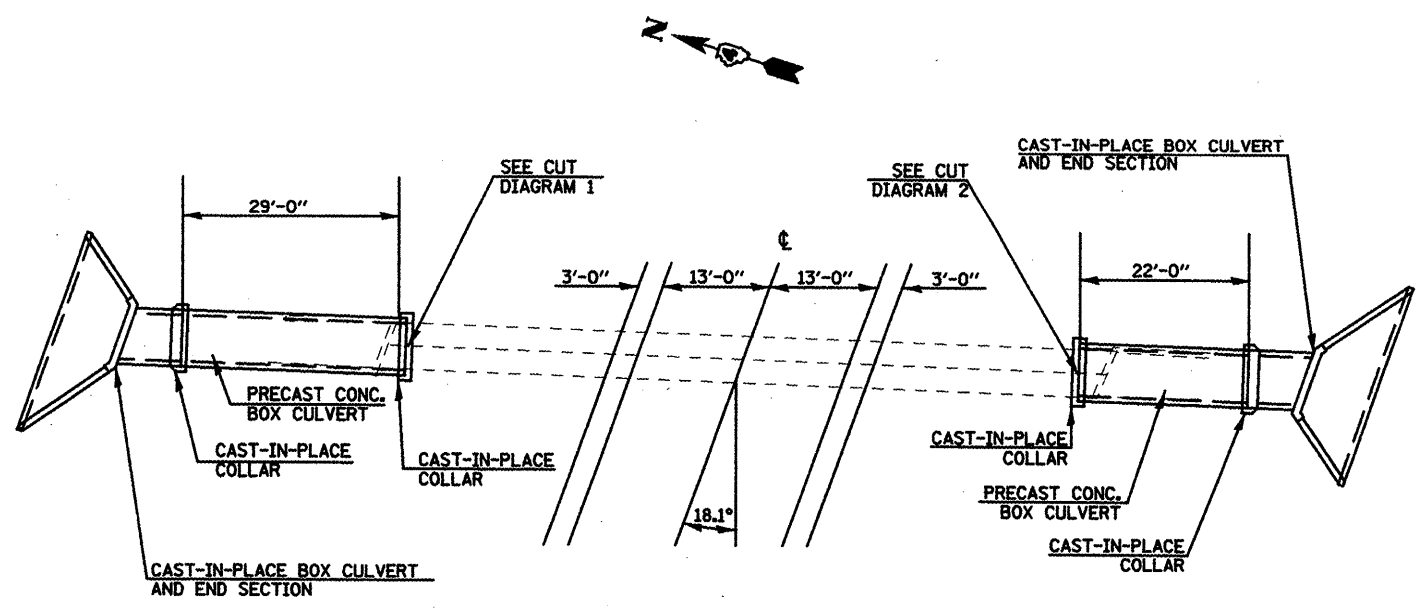
DRAWING NOT TO SCALE



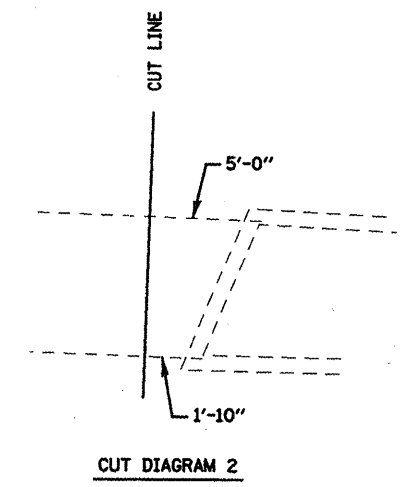
LONGITUDINAL SECTION



CUT DIAGRAM 1



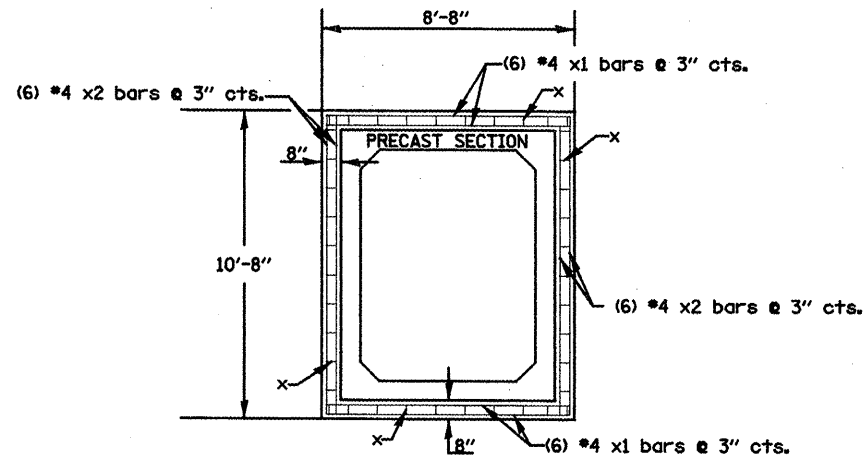
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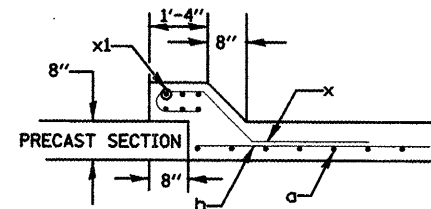
CUT DIAGRAM 2

DRAWING NOT TO SCALE

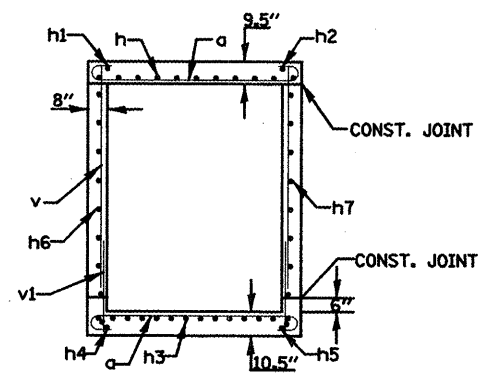
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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -				665	(136.137)W&RS-3(136R)1098R-1	HENDERSON	132	
	PLOT DATE = 1/28/2009	CHECKED -	REVISED -				CONTRACT NO. 88773				
		DATE -	REVISED -				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



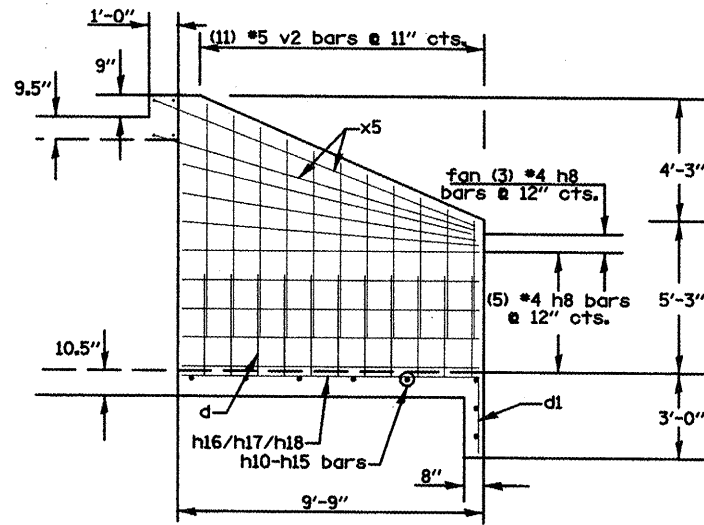
SECTION A-A
COLLAR CONNECTION TO
PRECAST CULVERT SECTION



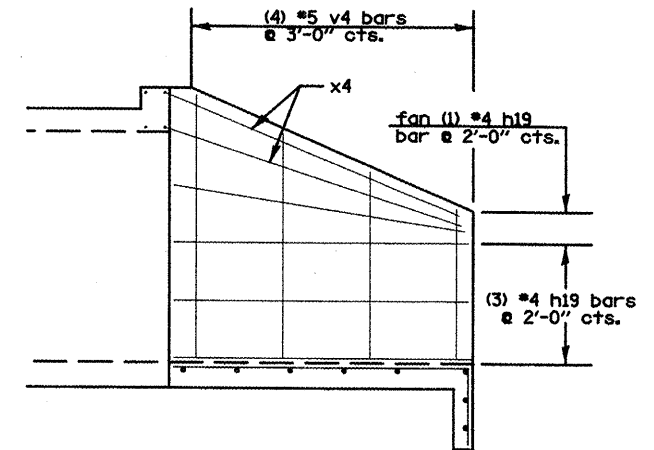
SECTION B-B
CONNECTION OF PRECAST BOX
CULVERT AND CAST-IN-PLACE COLLAR



SECTION C-C
CAST-IN-PLACE
BARREL SECTION

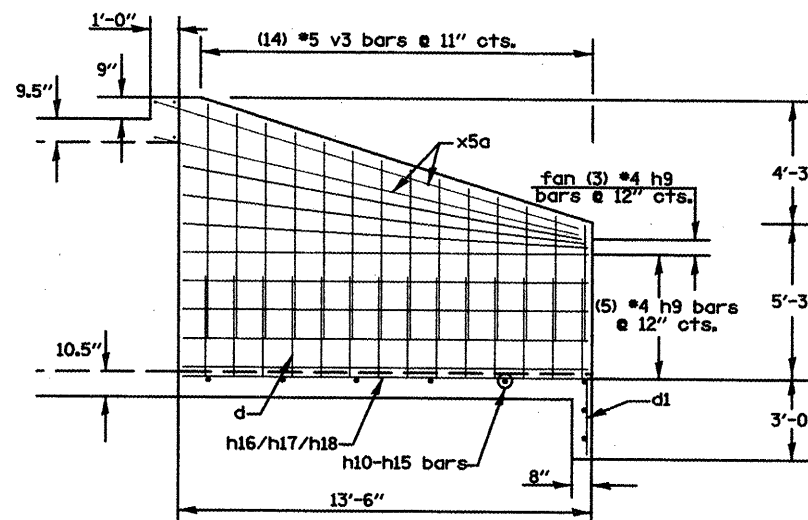


OUTSIDE WALL

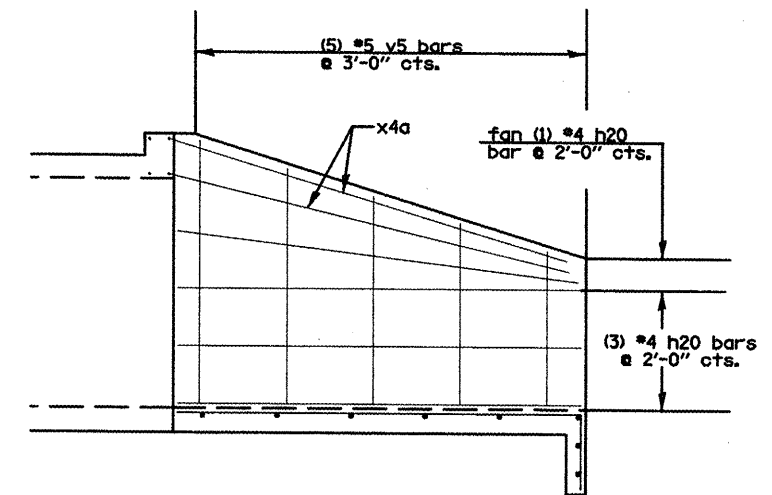


INSIDE WALL

SECTION D-D
SHORT WINGWALL



OUTSIDE WALL

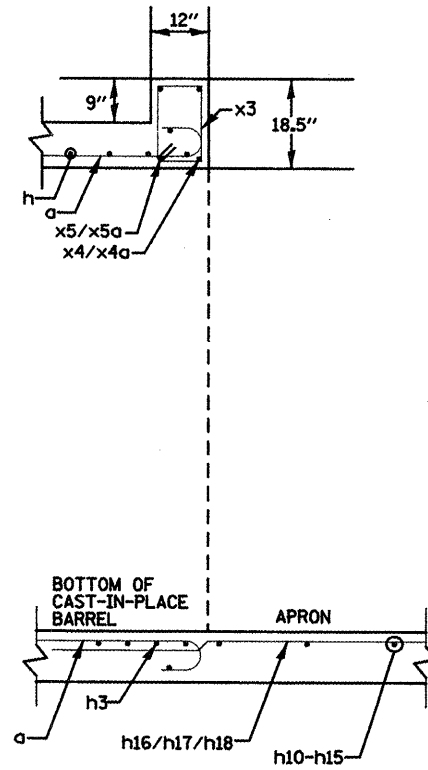


INSIDE WALL

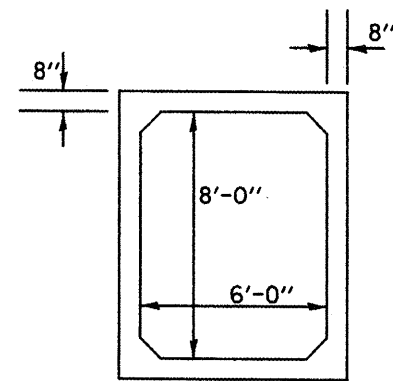
SECTION E-E
LONG WINGWALL

DRAWING NOT TO SCALE

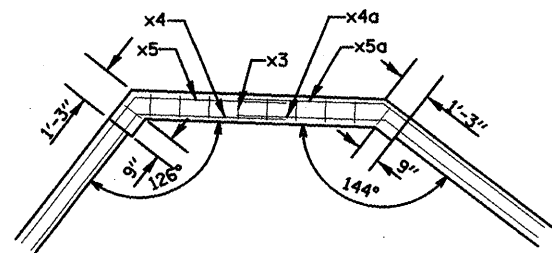
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		DRAWN -	REVISED -			665	(136.137)WARS-3d136R109BR-1	HENDERSON	134		
		CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	



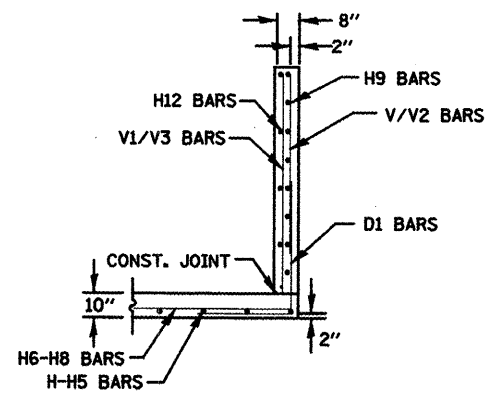
SECTION F-F
HEADWALL & APRON
CONNECTION TO COLLAR



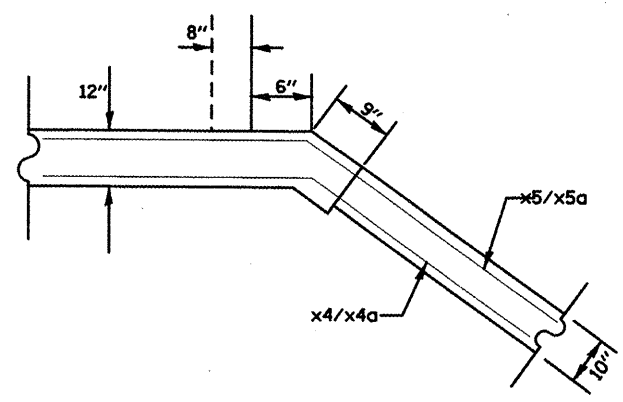
SECTION H-H
SECTION THROUGH PRE-CAST BARREL



HEADWALL



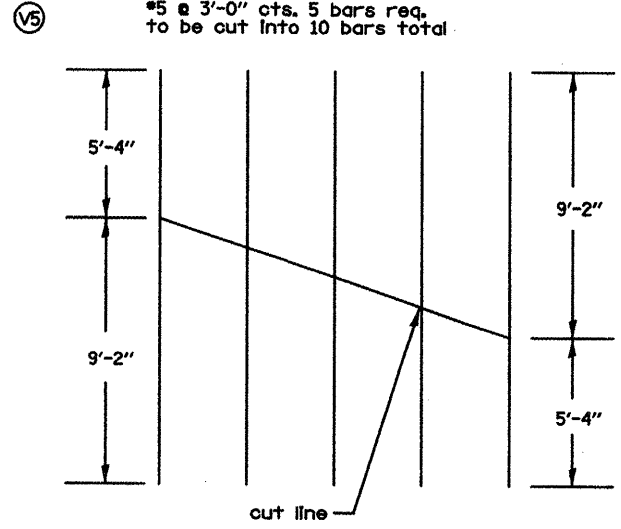
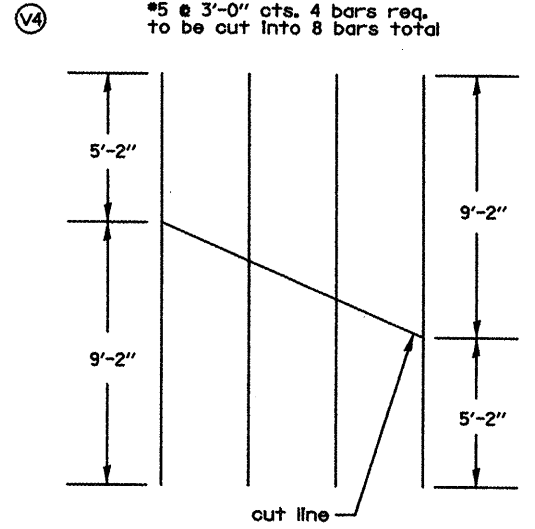
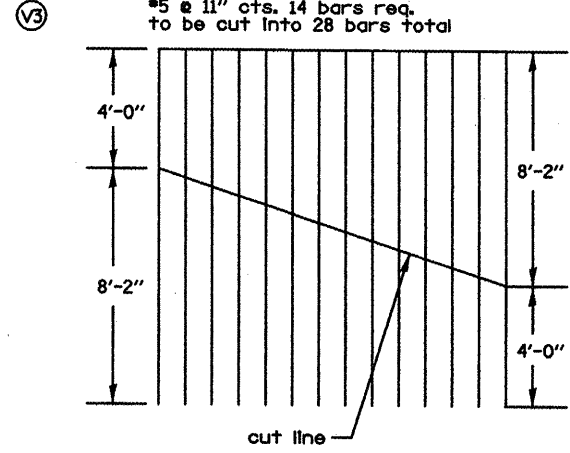
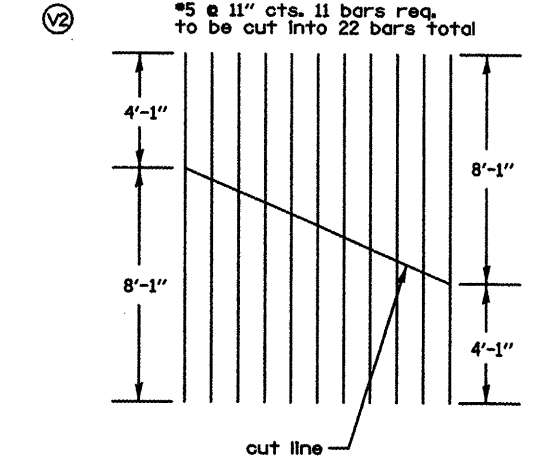
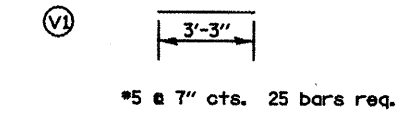
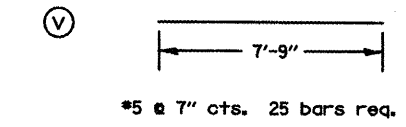
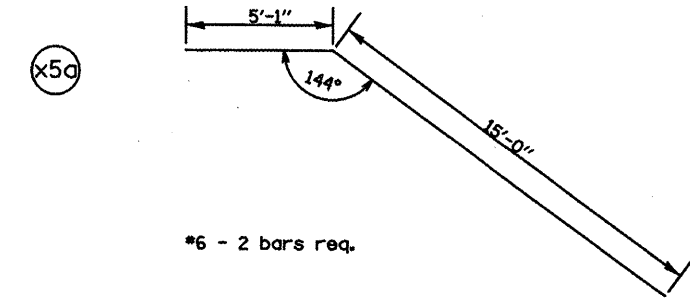
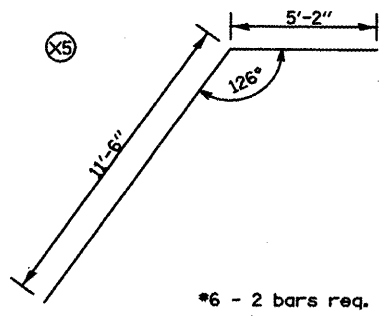
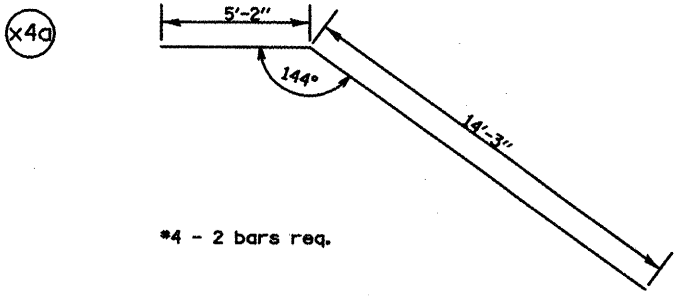
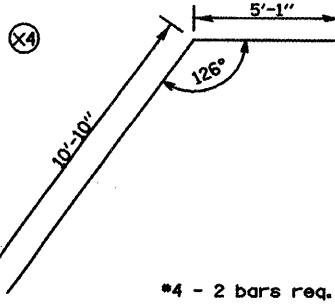
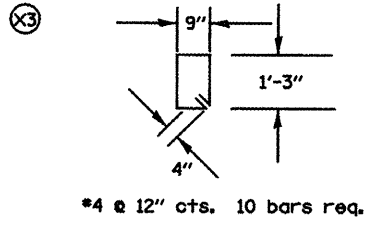
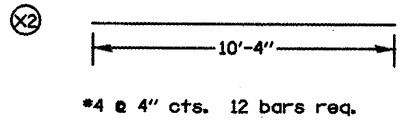
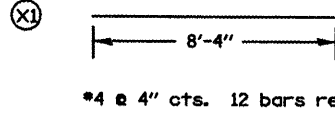
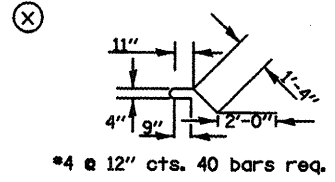
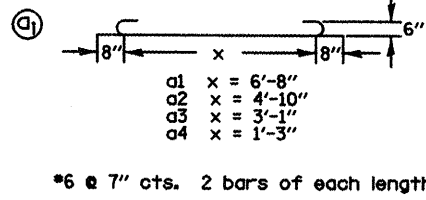
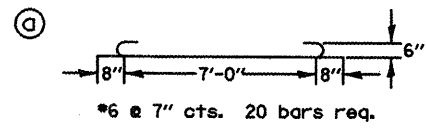
SECTION G-G
WINGWALL CONNECTION
TO APRON



CORNER DETAIL
(TYPICAL BOTH CORNERS)

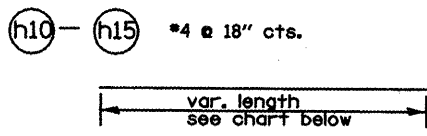
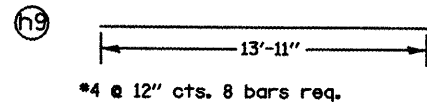
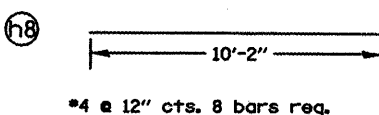
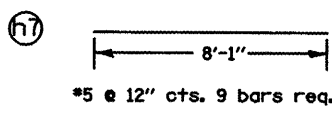
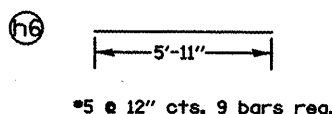
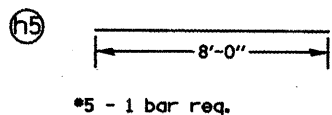
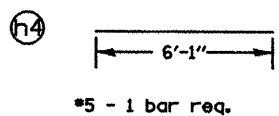
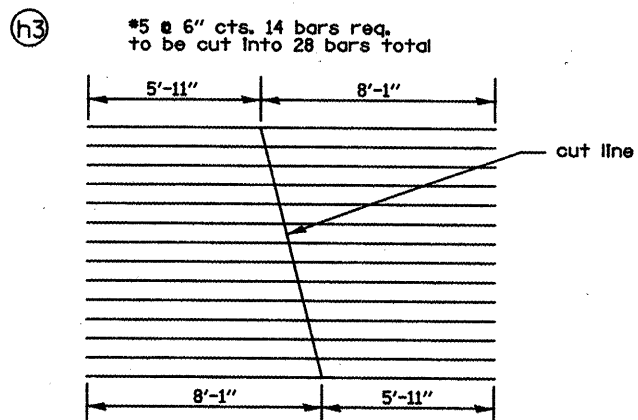
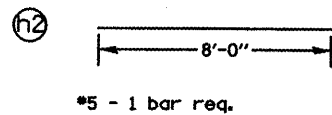
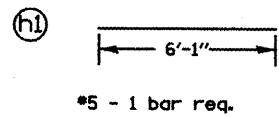
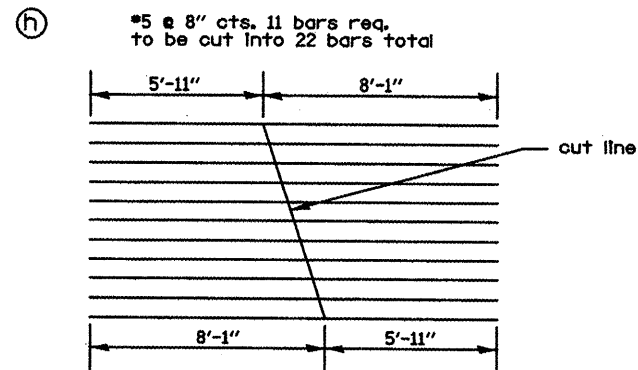
DRAWING NOT TO SCALE

FILE NAME = d-andetail.dgn	USER NAME = ghidineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STA. 124+22 6' X 8' BOX CULVERT EXTENSION DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			665	036.137W&RS-3436R109BR-1	HENDERSON		135	
	PLDT DATE = 1/28/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



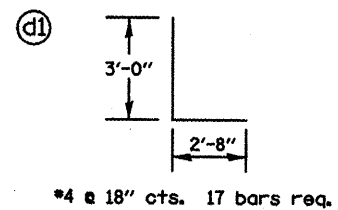
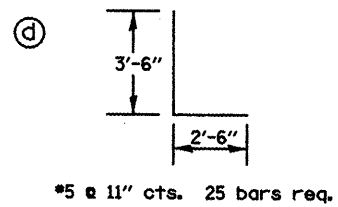
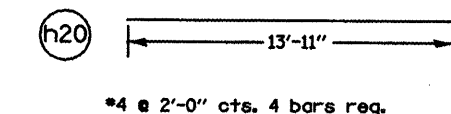
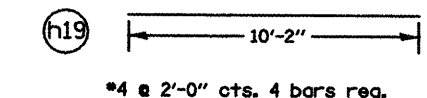
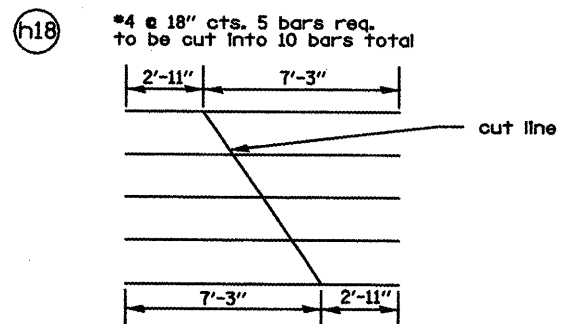
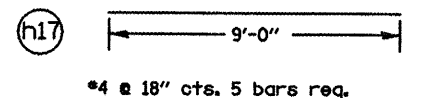
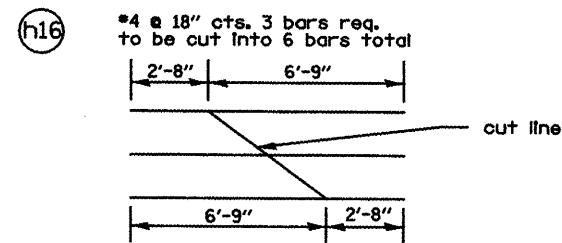
DRAWING NOT TO SCALE

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PLOT SCALE = 100.0000' / IN.		DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
PLOT DATE = 1/28/2009		CHECKED -	REVISED -		CONTRACT NO. 88773							
DATE -		REVISED -	REVISED -									



Bar	Length
h10	11'-9"
h11	14'-10"
h12	18'-0"
h13	21'-1 1/2"
h14	24'-3"
h15	26'-8"

h10-h14: 1 bar of each length is req.
 h15: 3 bars of stated length req.
 lengths given in this chart do not include extra length for lapping bars.

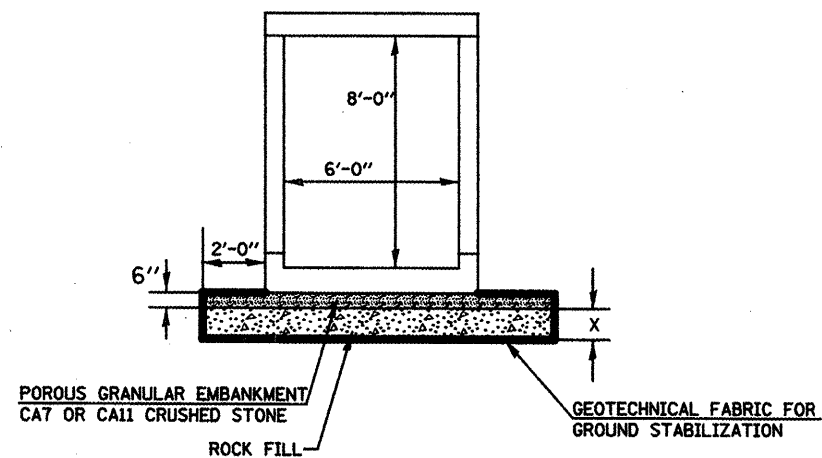


BILL OF MATERIAL					
BAR	SIZE	LENGTH	NORTH SIDE NO.	SOUTH SIDE NO.	SHAPE
a	6	8'-3"	10	10	U
a1	6	8'-0"	2	2	U
a2	6	6'-2"	2	2	U
a3	6	4'-5"	2	2	U
a4	6	2'-7"	2	2	U
x	4	5'-6"	40	40	L
x1	4	8'-4"	12	12	L
x2	4	10'-4"	12	12	L
x3	4	4'-8"	10	10	L
x4	6	15'-11"	2	2	L
x4a	6	19'-5"	2	2	L
x5	6	16'-8"	2	2	L
x5a	6	20'-1"	2	2	L
v	5	7'-9"	25	25	L
v1	5	3'-3"	25	25	L
v2*	5	12'-2"	11	11	L
v3*	5	12'-2"	14	14	L
v4*	5	14'-4"	4	4	L
v5*	5	14'-6"	5	5	L
h*	5	14'-0"	11	11	L
h1	5	6'-1"	1	1	L
h2	5	8'-0"	1	1	L
h3*	5	14'-0"	14	14	L
h4	5	6'-1"	1	1	L
h5	5	8'-0"	1	1	L
h6	5	5'-11"	9	9	L
h7	5	8'-1"	9	9	L
h8	4	10'-2"	8	8	L
h9	4	13'-11"	8	8	L
h10	4	11'-9"	1	1	L
h11	4	14'-10"	1	1	L
h12	4	18'-0"	1	1	L
h13	4	21'-1 1/2"	1	1	L
h14	4	24'-3"	1	1	L
h15	4	26'-8"	1	1	L
h16*	4	9'-5"	3	3	L
h17	4	9'-0"	5	5	L
h18*	4	10'-2"	5	5	L
h19	4	10'-2"	4	4	L
h20	4	13'-11"	4	4	L
d	5	6'-0"	25	25	L
d1	4	5'-8"	17	17	L
CONC. BOX CULV. YD ³			21.0	21.0	
REINFORCEMENT BARS LBS					4345
CONC. BOX CULV. YD ³					42.0

*Refer to cut diagram for total amount of rebar required.

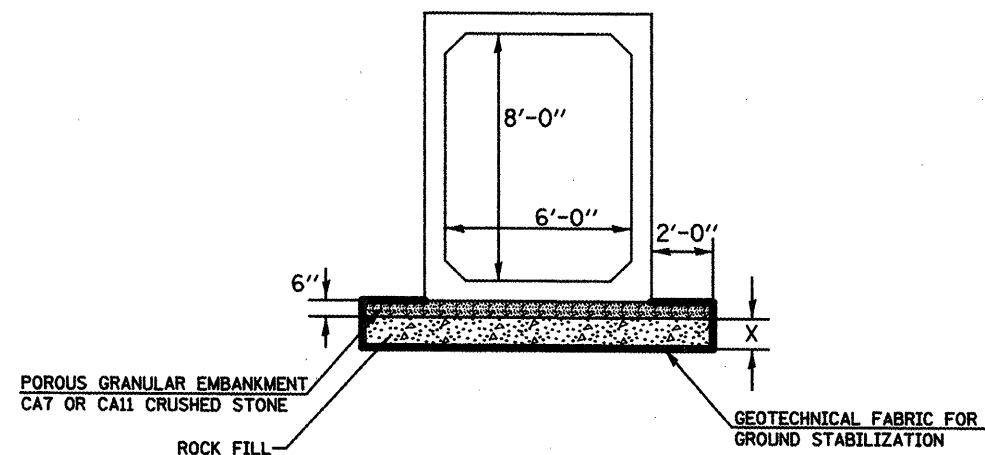
DRAWING NOT TO SCALE

FILE NAME = d-a-in-detail.dgn	USER NAME = ghidineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STA. 124+22 6' X 8' BOX CULVERT EXTENSION DETAIL	F.A.P. RTE. 665	SECTION 036.137W&RS-3136R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 137	SHEET NO. 37	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 88773			
PLOT DATE = 1/20/2009	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



CAST-IN-PLACE BARREL SECTION

LEFT SIDE X = 5'-2"
RIGHT SIDE X = 2'-2"



PRECAST BARREL SECTION

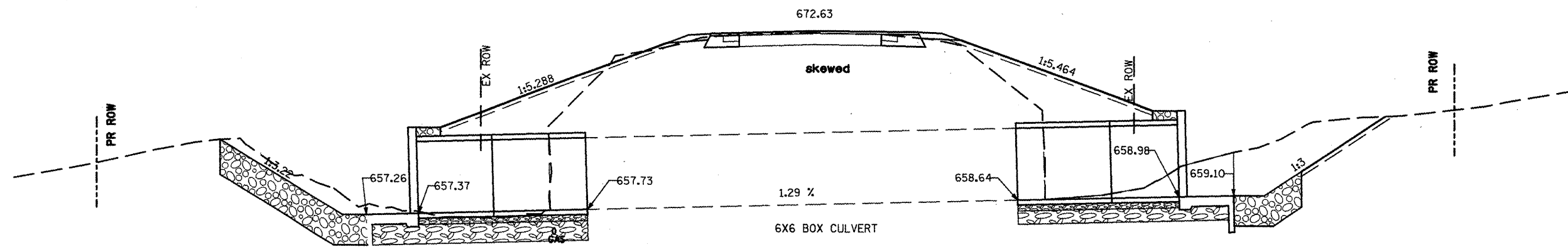
LEFT SIDE X = 5'-2"
RIGHT SIDE X = 2'-2"

NOTES:

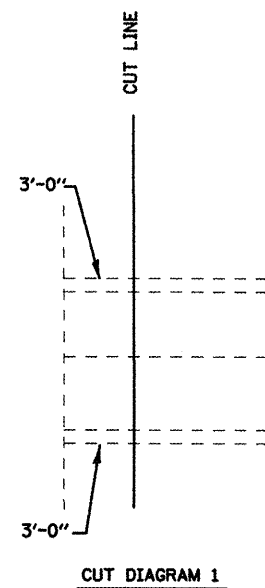
1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATION. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM. POROUS GRANULAR EMBANKMENT REQUIRED FOR THE CAST-IN-PLACE BOX CULVERT AND END SECTION SHALL BE PAID FOR SEPARATELY.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. A DEPTH OF 2 FEET AROUND CULVERT WAS ASSUMED TO BE UNSUITABLE THE ROCK FILL AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PAID SEPARATELY.
5. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

LOCATION	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL
	TON	TON	SQ YD	CU YD
LT. STA. 124+21.91	283.5	15.0	208.6	233.2
RT. STA. 124+21.91	106.0	15.0	142.3	139.9

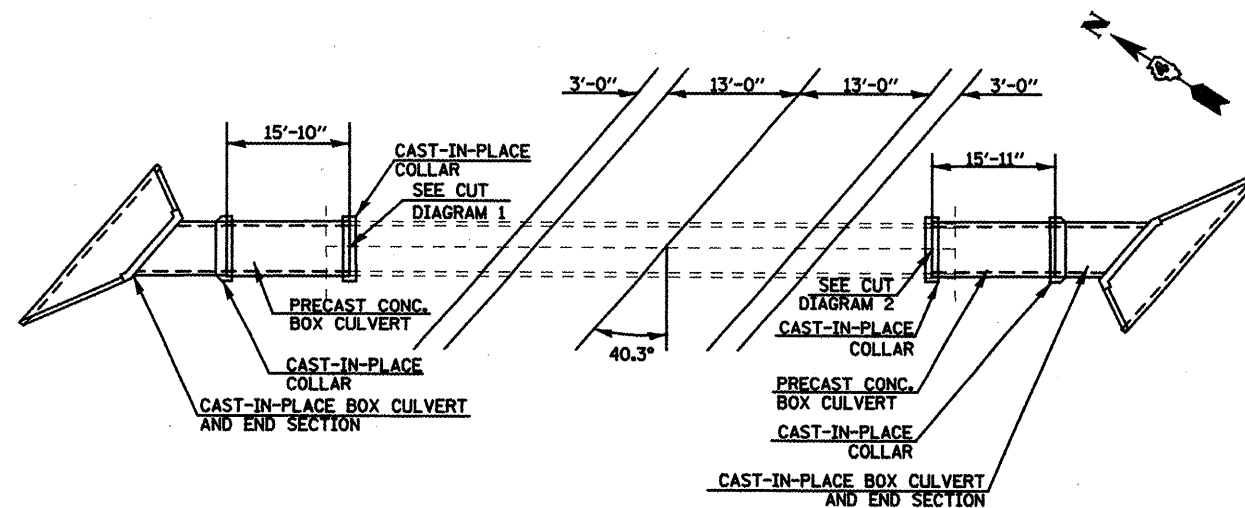
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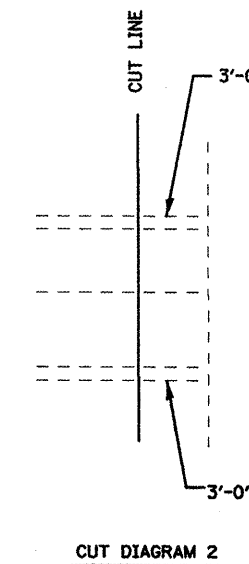
LONGITUDINAL SECTION



CUT DIAGRAM 1



PLAN



CUT DIAGRAM 2

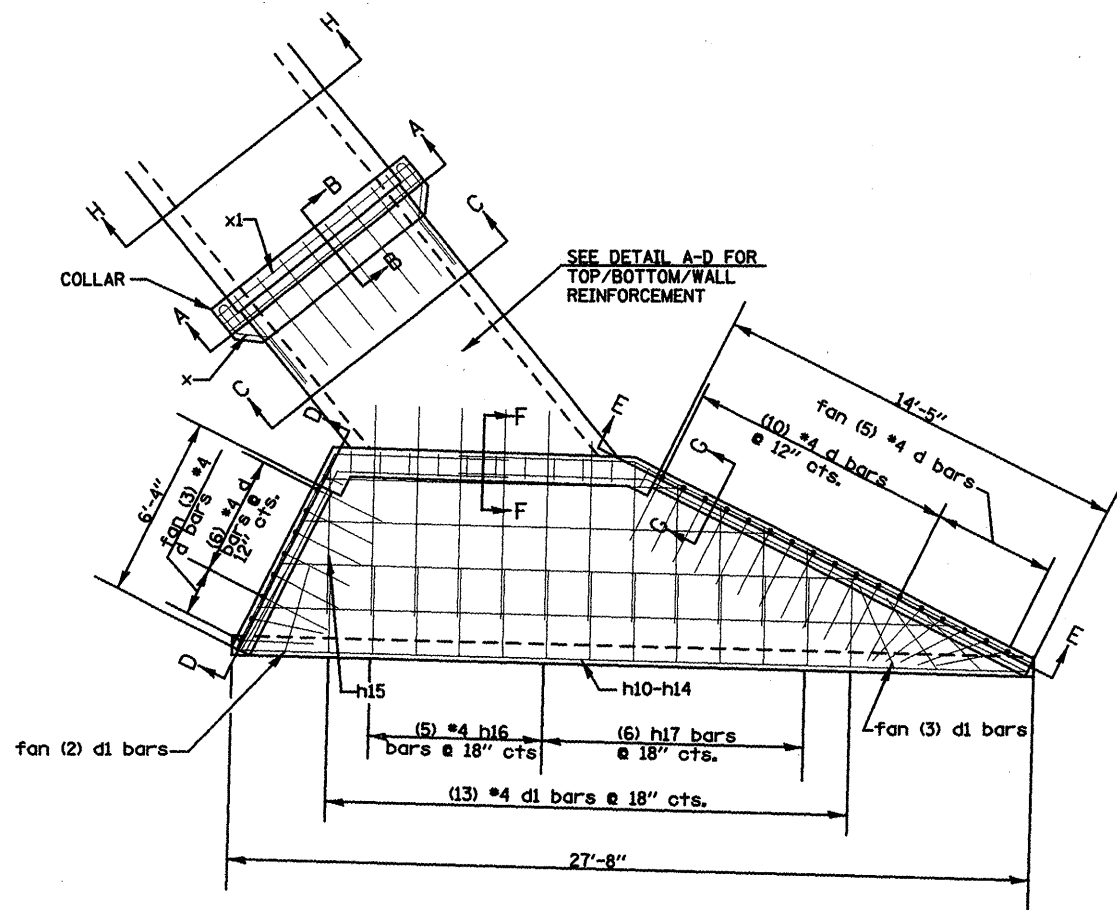
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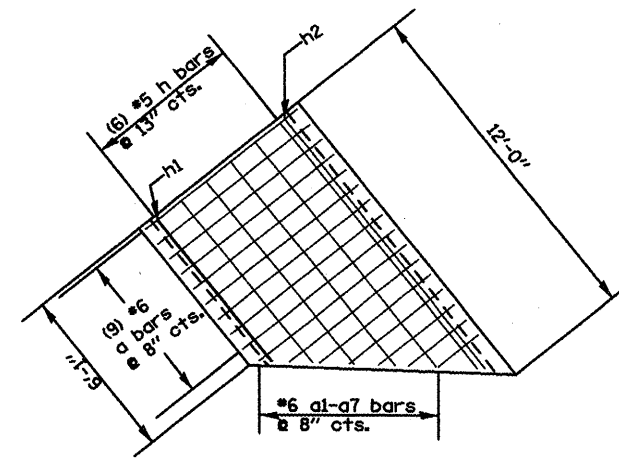
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STA. 155+19 6' X 6' BOX CULVERT EXTENSION DETAIL			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

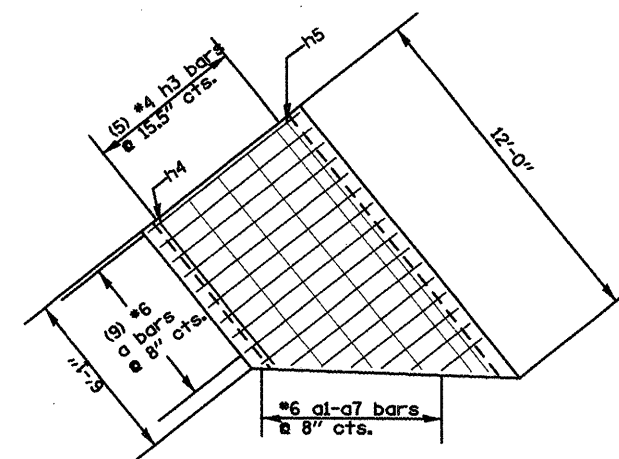
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CONTRACT NO. 88773				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



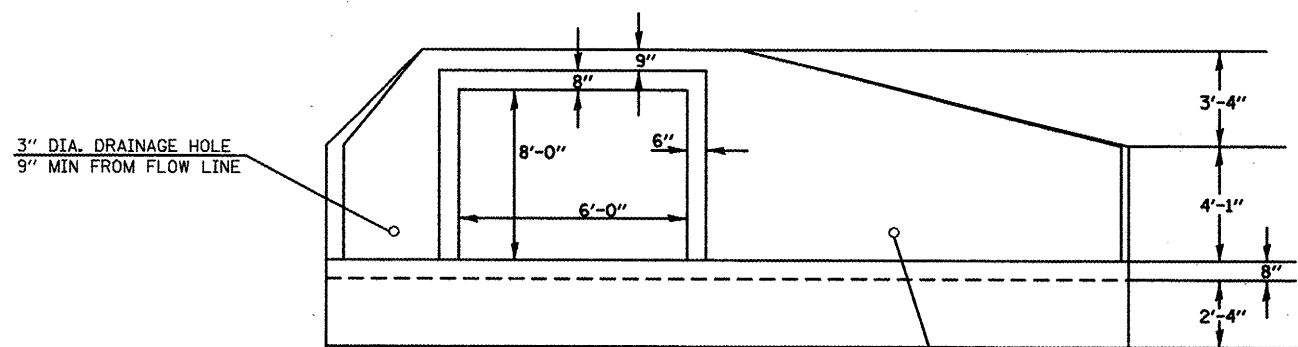
PLAN VIEW



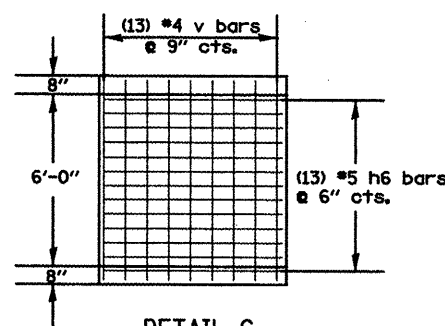
DETAIL A
TOP SLAB
REINFORCEMENT



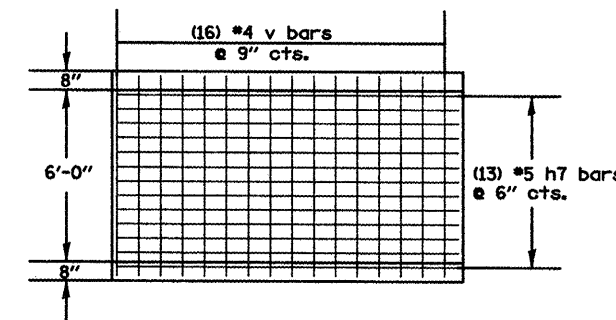
DETAIL B
BOTTOM SLAB
REINFORCEMENT



END ELEVATION



DETAIL C
SHORT WALL
REINFORCEMENT

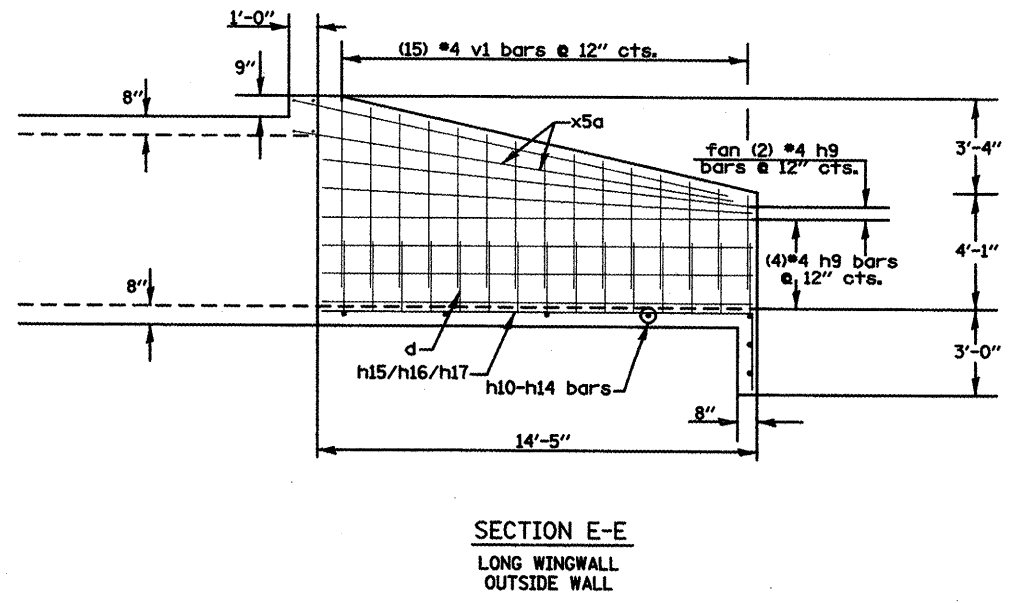
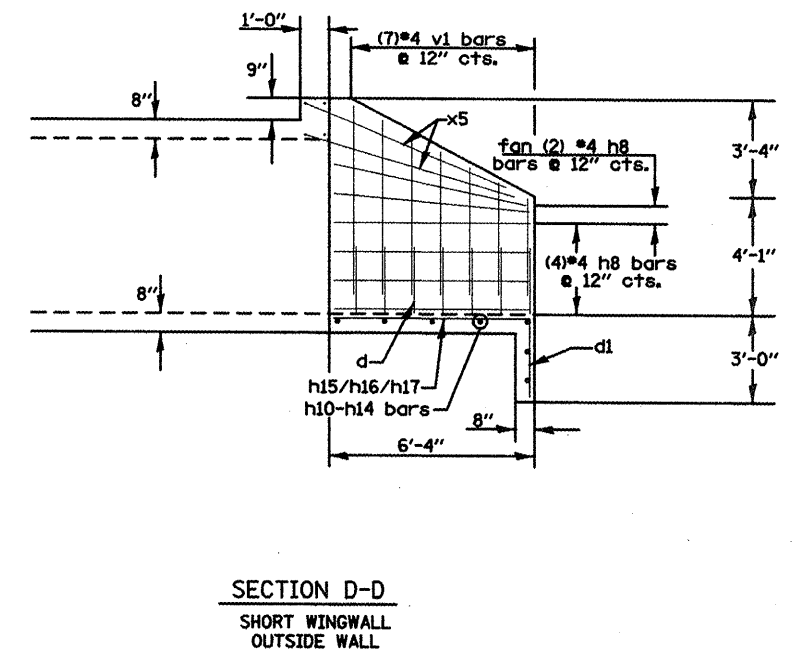
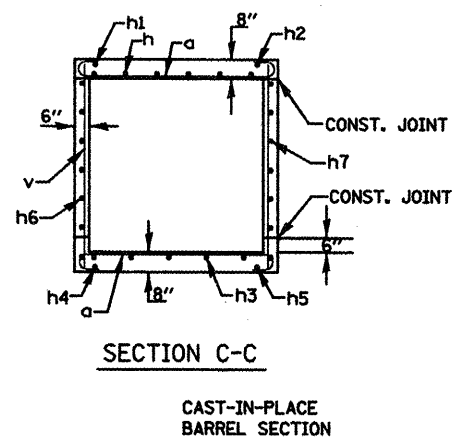
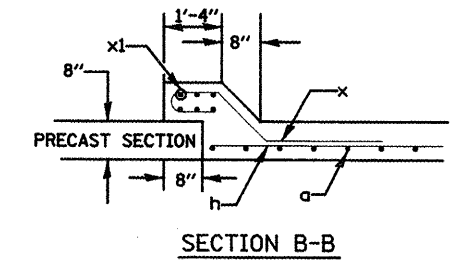
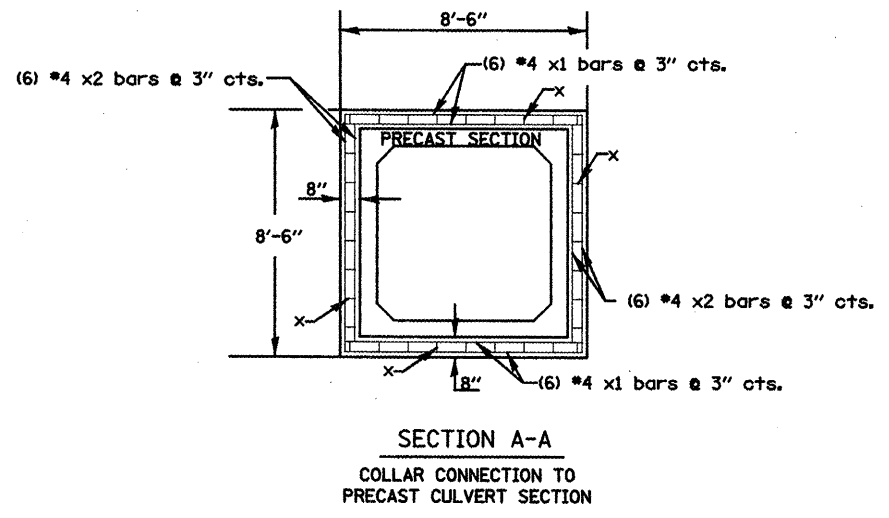


DETAIL D
LONG WALL
REINFORCEMENT

NOTE
INCLUDE 1 DRAINAGE HOLE WITHIN EACH
WALL OF THE CAST-IN-PLACE BARREL SECTION
9" MIN FROM FLOW LINE.

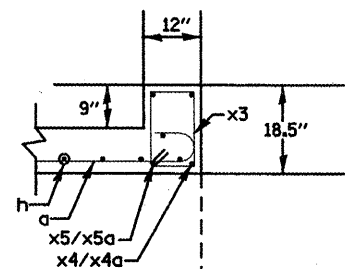
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	PLOT DATE = 1/28/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

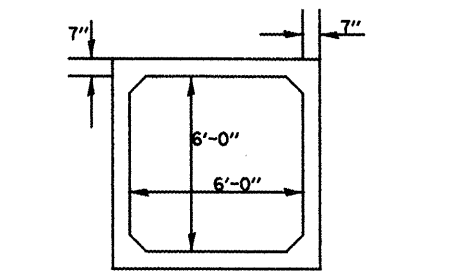


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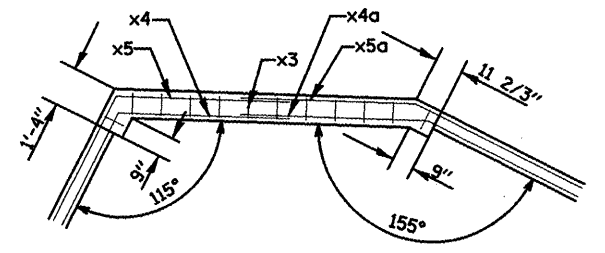
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		DRAWN -	REVISED -			665	(136.137)W&RS-3136R109BR-1	HENDERSON		147	
		CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
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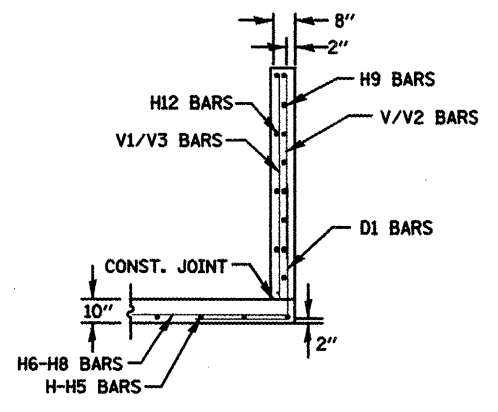
SECTION F-F
HEADWALL & APRON
CONNECTION TO COLLAR



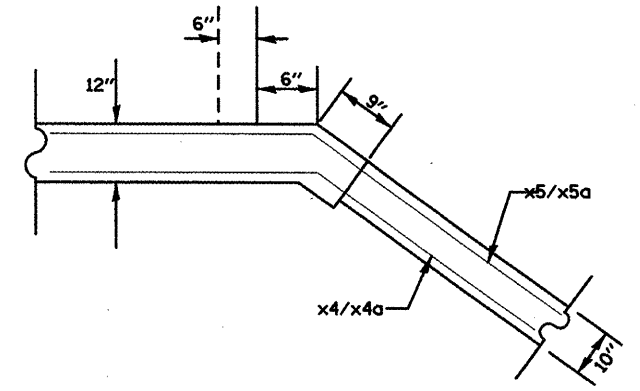
SECTION H-H
SECTION THROUGH PRE-CAST BARREL



HEADWALL



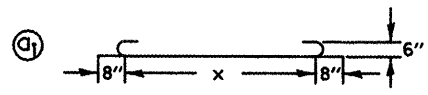
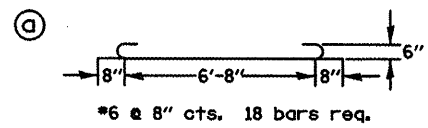
SECTION G-G
WINGWALL CONNECTION
TO APRON



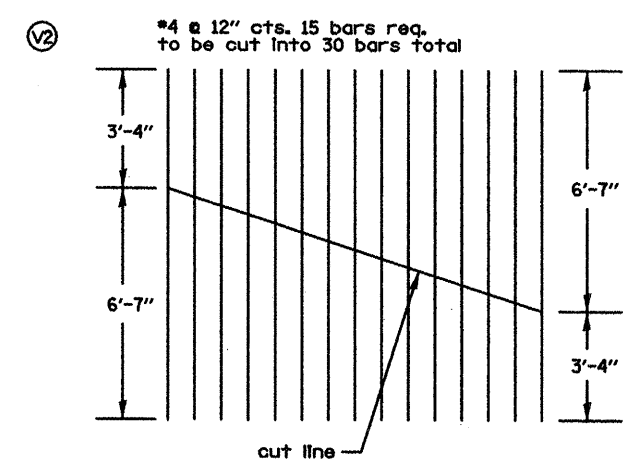
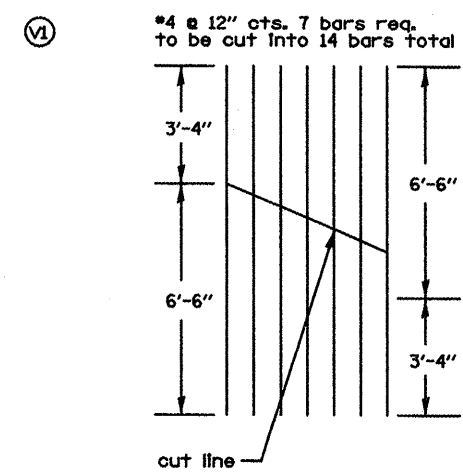
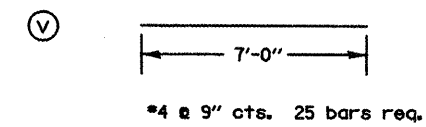
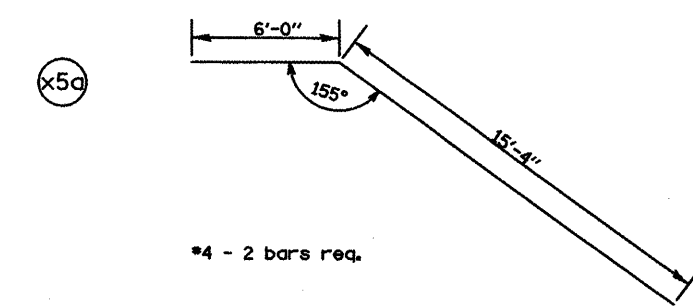
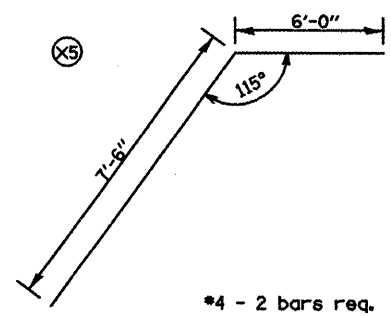
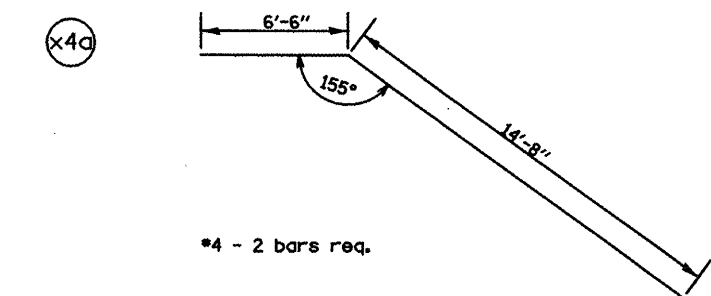
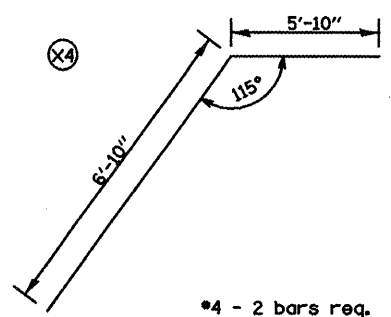
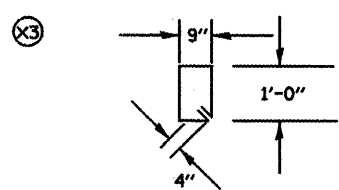
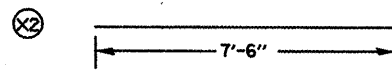
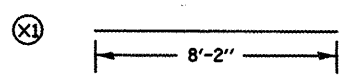
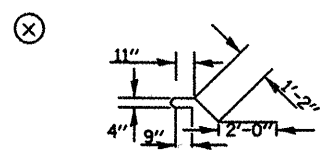
CORNER DETAIL
(TYPICAL BOTH CORNERS)

DRAWING NOT TO SCALE

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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -					665	(136.137)W&RS-3436R109BR-1	HENDERSON	142	142
	PLOT DATE = 1/20/2009	CHECKED -	REVISED -					CONTRACT NO. 88773				
				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

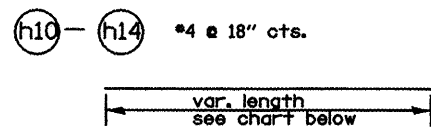
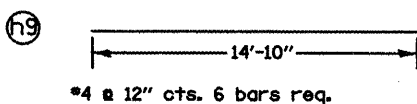
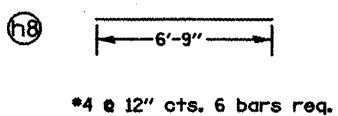
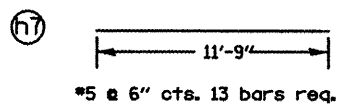
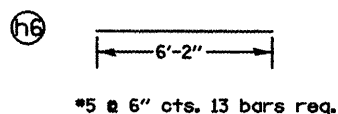
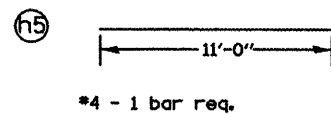
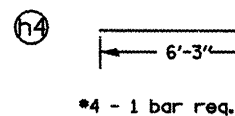
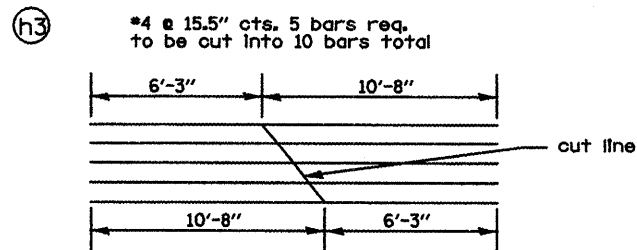
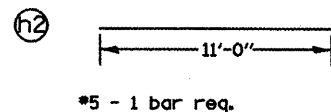
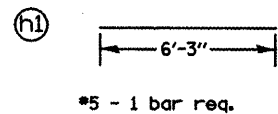
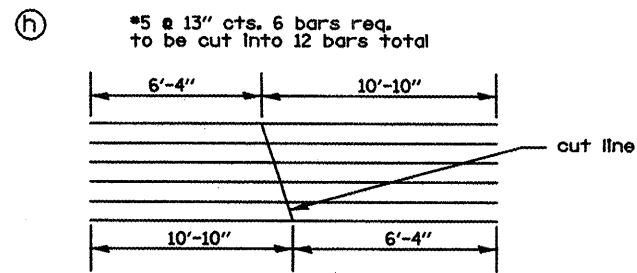


- Q1 x = 6'-6"
- Q2 x = 5'-8"
- Q3 x = 4'-11"
- Q4 x = 4'-1"
- Q5 x = 3'-4"
- Q6 x = 2'-6"
- Q7 x = 1'-9"



DRAWING NOT TO SCALE

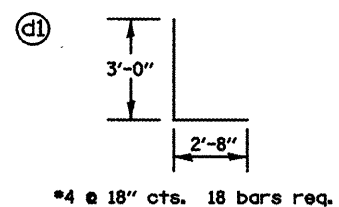
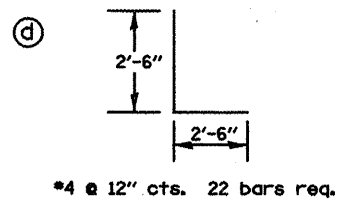
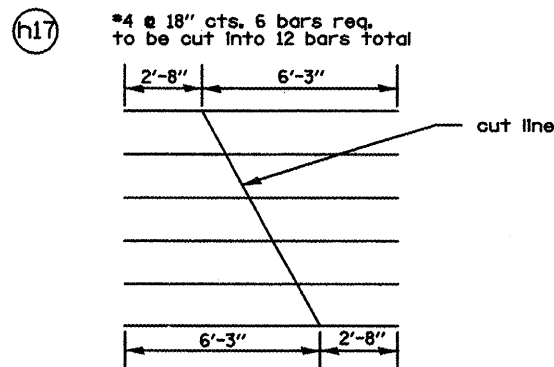
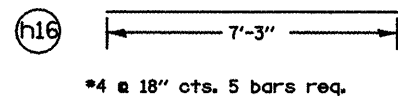
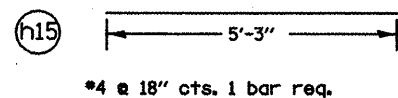
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PLDT SCALE = 1/80.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO. 88773			
PLDT DATE = 1/28/2009	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



Bar	Length
h10	12'-6"
h11	16'-5"
h12	20'-4"
h13	24'-2"
h14	27'-4"

h10-h13: 1 bar of each length is req.
h14: 3 bars of stated length req.

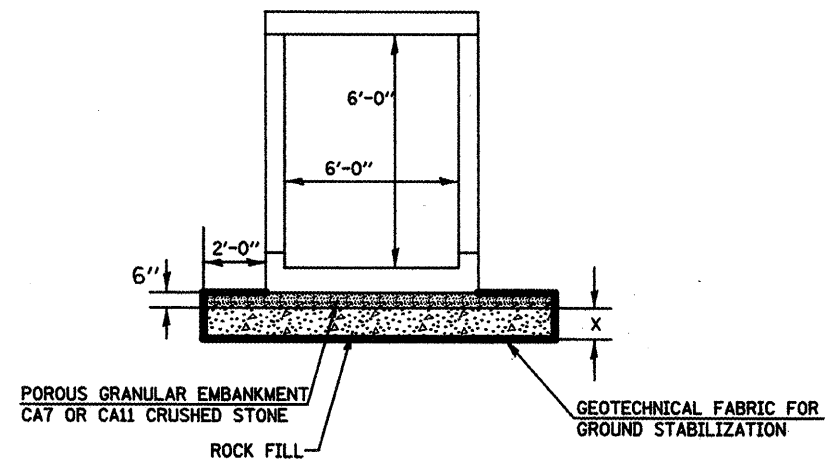
lengths given in this chart do not include extra length for lapping bars.



BILL OF MATERIAL					
BAR	SIZE	LENGTH	NORTH SIDE NO.	SOUTH SIDE NO.	SHAPE
a	6	8'-0"	18	18	U
a1	6	7'-10"	2	2	U
a2	6	7'-0"	2	2	U
a3	6	6'-3	2	2	U
a4	6	5'-5"	2	2	U
a5	6	4'-8"	2	2	U
a6	6	3'-10"	2	2	U
a7	6	3'-1"	2	2	U
x	4	5'-4"	35	35	U
x1	4	8'-2"	12	12	U
x2	4	7'-6"	12	12	U
x3	4	4'-2"	12	12	U
x4	4	12'-8"	2	2	U
x4a	4	21'-2"	2	2	U
x5	4	13'-6"	2	2	U
x5a	4	21'-4"	2	2	U
v	4	7'-0"	25	25	U
v1*	4	9'-10"	7	7	U
v2*	4	9'-11"	15	15	U
h*	5	17'-2"	6	6	U
h1	5	6'-3"	1	1	U
h2	5	11'-0"	1	1	U
h3*	4	16'-11"	5	5	U
h4	4	6'-3"	1	1	U
h5	4	11'-0"	1	1	U
h6	5	6'-2"	13	13	U
h7	5	11'-9"	13	13	U
h8	4	6'-9"	6	6	U
h9	4	14'-10"	6	6	U
h10	4	12'-6"	1	1	U
h11	4	16'-5"	1	1	U
h12	4	20'-4"	1	1	U
h13	4	24'-2"	1	1	U
h14	4	27'-4"	3	3	U
h15	4	5'-3'	1	1	U
h16	4	7'-3"	5	5	U
h17*	4	8'-11"	6	6	U
d	4	5'-0"	22	22	L
d1	4	5'-8"	18	18	L
CONC. BOX CULV. YD ³			17.6	17.6	
REINFORCEMENT BARS			LBS		3255
CONC. BOX CULV.			YD ³		35.2

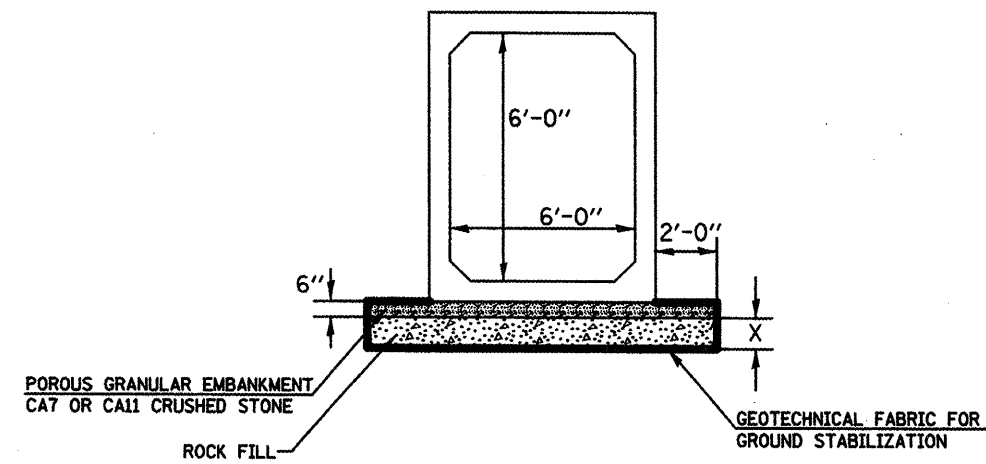
*Refer to cut diagram for total amount of rebar required.

DRAWING NOT TO SCALE



CAST-IN-PLACE BARREL SECTION

LEFT SIDE X = 1'-7"
RIGHT SIDE X = 1'-1"



PRECAST BARREL SECTION

LEFT SIDE X = 1'-7"
RIGHT SIDE X = 1'-1"

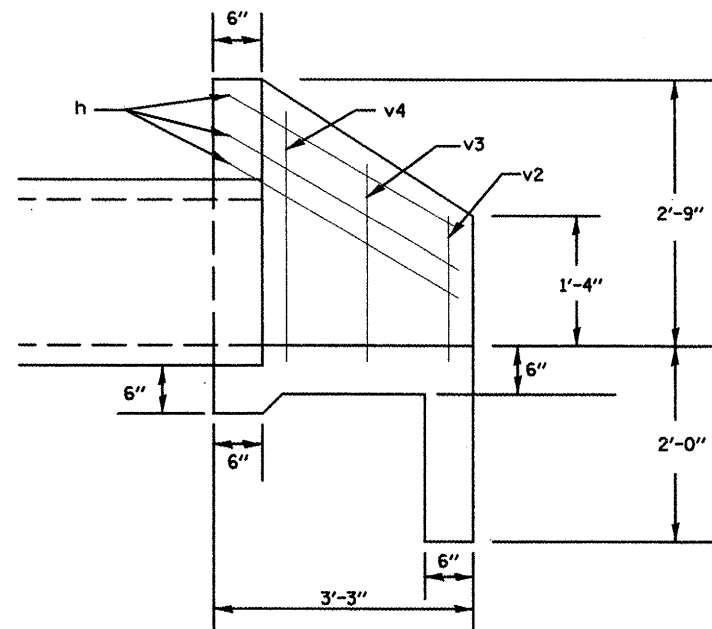
NOTES:

1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATION. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM. POROUS GRANULAR EMBANKMENT REQUIRED FOR THE CAST-IN-PLACE BOX CULVERT AND END SECTION SHALL BE PAID FOR SEPARATELY.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. A DEPTH OF 2 FEET AROUND CULVERT WAS ASSUMED TO BE UNSUITABLE THE ROCK FILL AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PAID SEPARATELY.
5. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

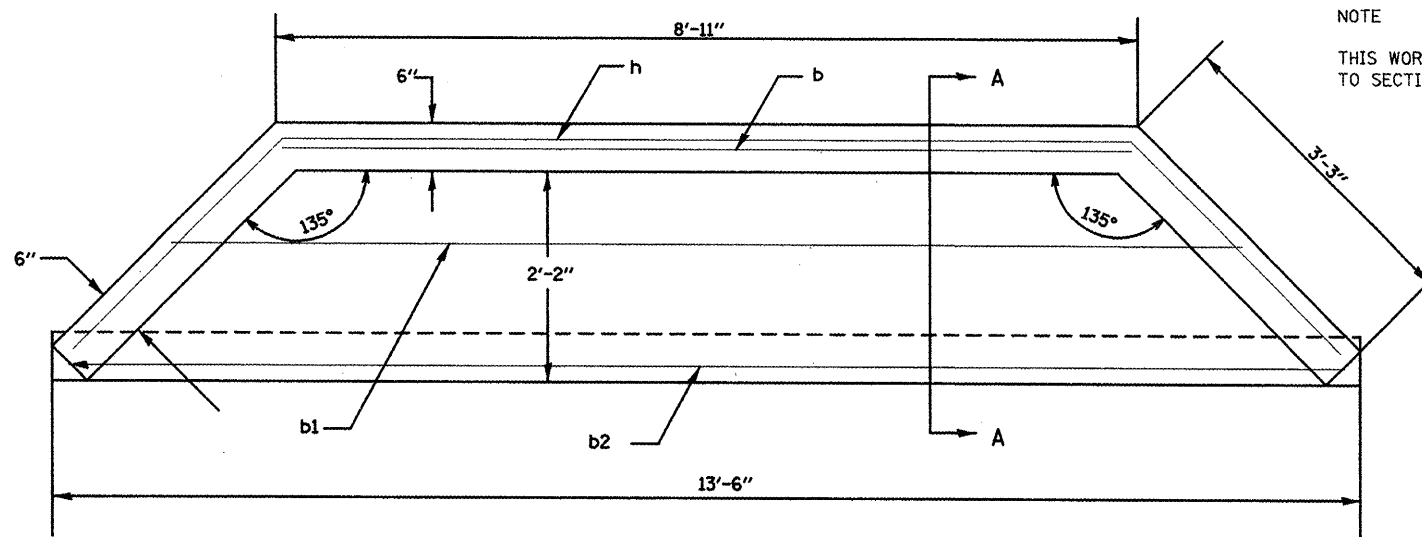
LOCATION	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL
	TON	TON	SQ YD	CU YD
LT. STA. 155+19.78	66.8	17.6	119.1	156.4
RT. STA. 155+19.78	45.7	17.6	112.2	200.8

DRAWING NOT TO SCALE

FILE NAME = d-endetail.dgn	USER NAME = ghidnoem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STA. 155+19 6' X 6' BOX CULVERT EXTENSION DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			665	436.1371W&RS-3136R109BR-1	HENDERSON		145
		CHECKED -	REVISED -			CONTRACT NO. 88773				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
PLOT SCALE = 1/20/2009		PLOT DATE = 1/20/2009		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

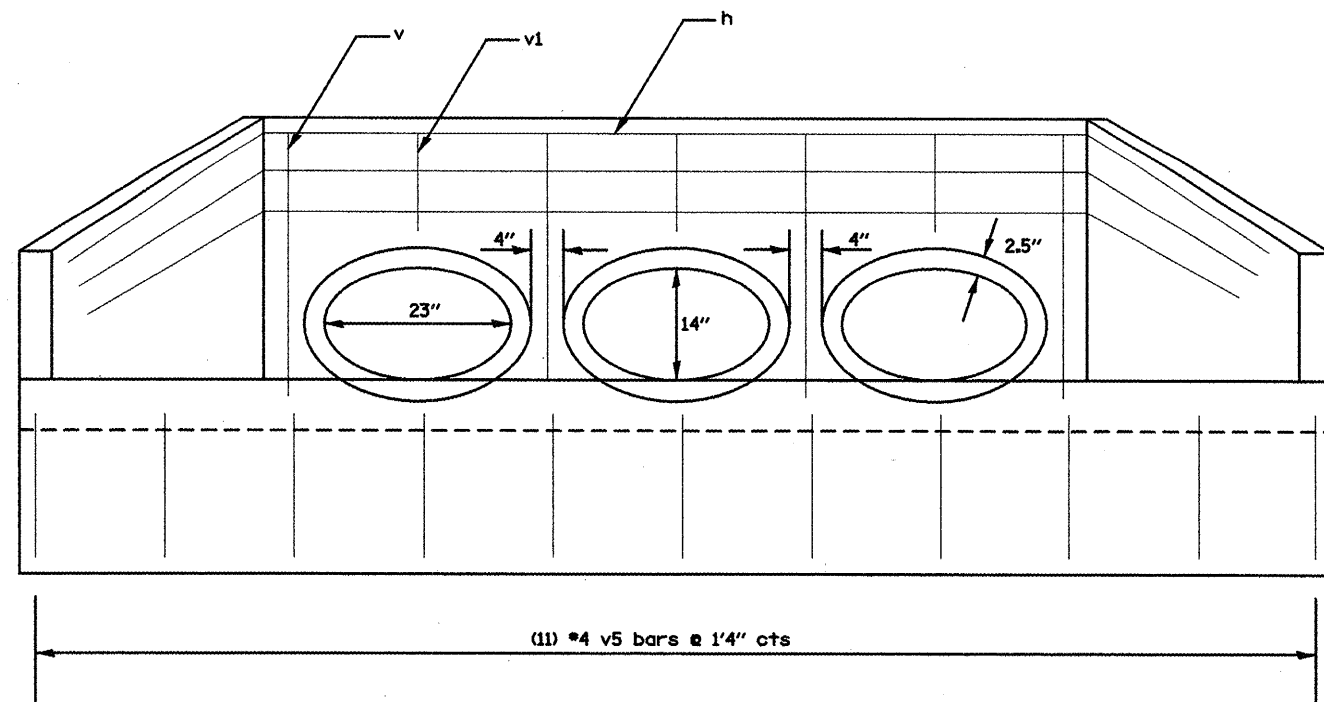


SECTION A-A

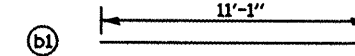
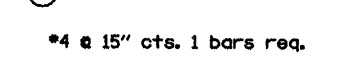
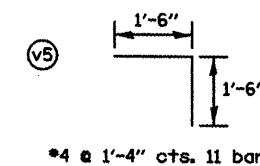
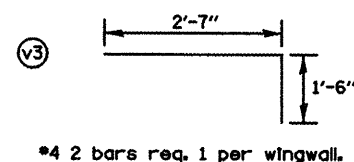
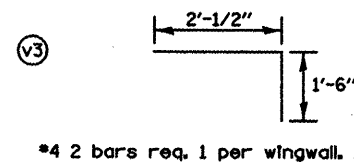
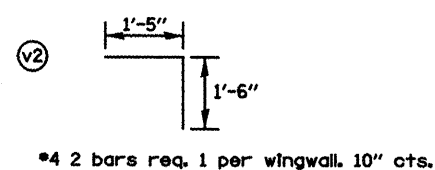
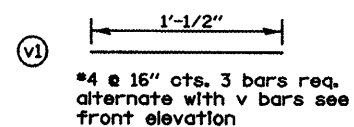
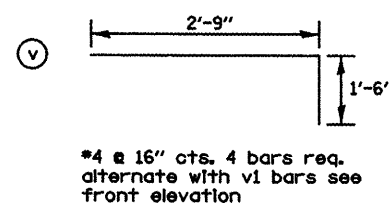
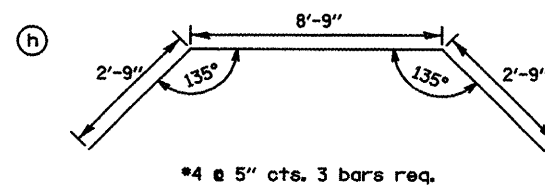


PLAN VIEW

NOTE
THIS WORK SHALL BE PERFORMED ACCORDING
TO SECTION 503 OF THE STANDARD SPECIFICATION.



FRONT ELEVATION



BILL OF MATERIAL					
BAR	SIZE	LENGTH	EAST SIDE NO.	WEST SIDE NO.	SHAPE
h	4	14'-3"	3	3	
v	4	4'-3"	4	4	
v1	4	1'-1/2"	3	3	
v2	4	2'-11"	2	2	
v3	4	3'-6 1/2"	2	2	
v4	4	4'-1"	2	2	
v5	4	3'-0"	11	11	
b	4	8'-9"	1	1	
b1	4	11'-1"	1	1	
b2	4	13'-2"	1	1	
CONC. HEADWALLS (CU YD)			1.4	1.4	
REINFORCEMENT BARS			LBS		200
CONC. HEADWALLS			YD ³		2.8

DRAWING NOT TO SCALE

FILE NAME = dr-aindetail.dgn	USER NAME = ghdinaam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

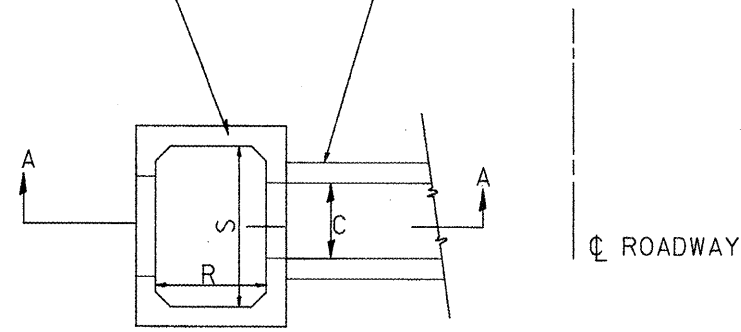
HEADWALL DETAIL FOR TRIPLE
18" EQUIV. CULVERT STA. 221+68.46

SCALE: SHEET NO. OF SHEETS STA. TO STA.

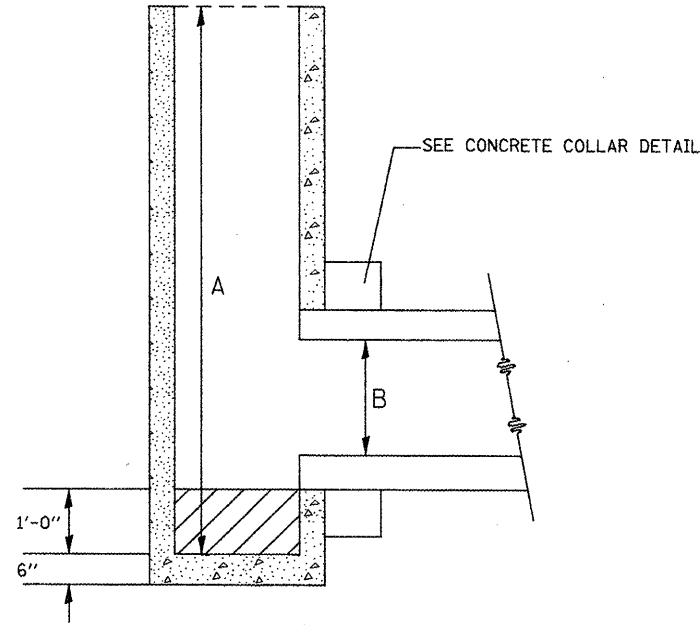
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	036.137#W&RS-3d136Rd1098R-1	HENDERSON	140	140
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	

PRECAST CONCRETE
DROP OUTLET NO. 1

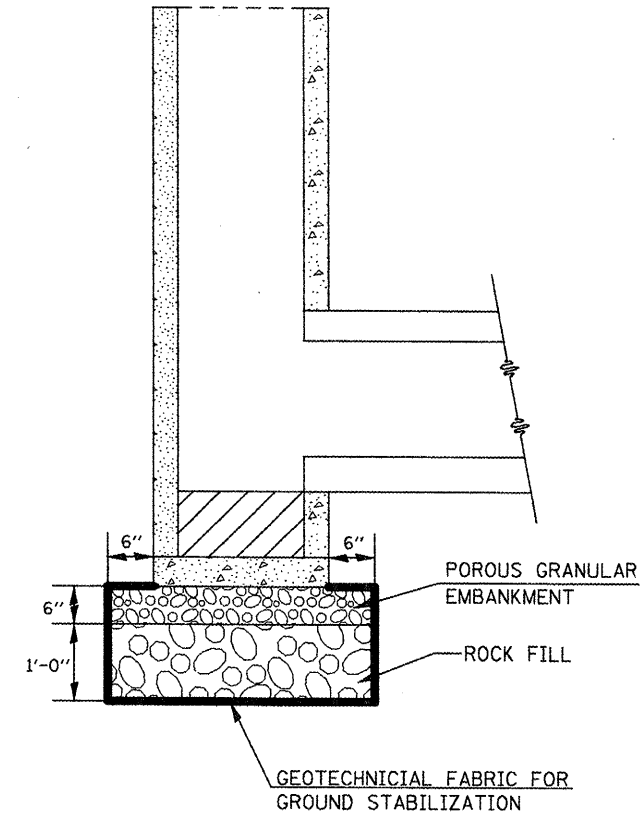
PROP. BOX CULVERT
SEE SHEET 1 FOR TYPE



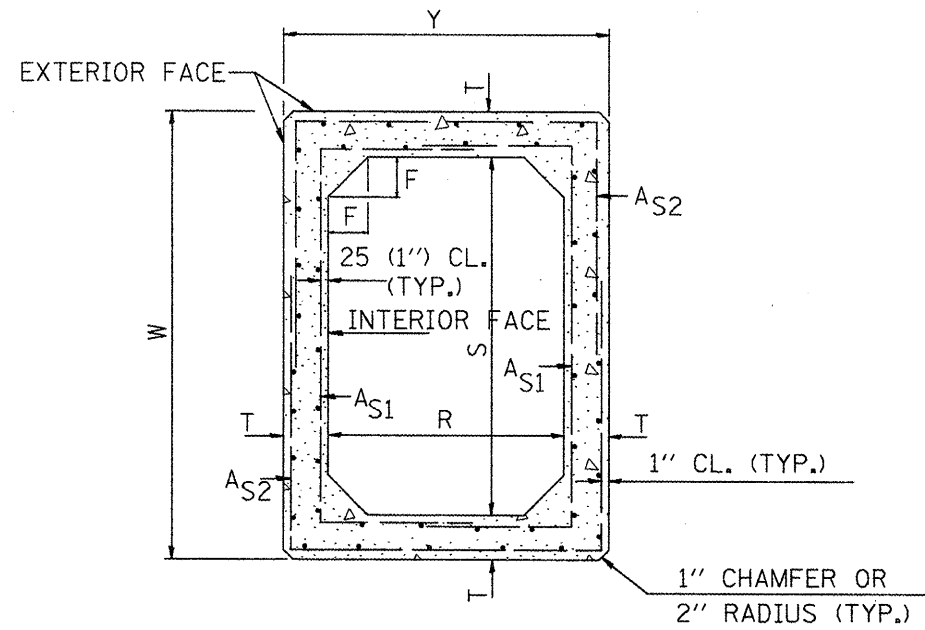
PLAN



SECTION A-A



UNDERCUT TREATMENT



SECTION THRU DROP BOX

DIMENSIONS

S x R	T	W	Y	F	A _{S1}	A _{S2}
3' x 3'	6"	4'-0"	4'-0"	4"	0.10	0.10
4' x 4'	6"	5'-0"	5'-0"	5"	0.12	0.12
5' x 5'	6"	6'-0"	6'-0"	6"	0.14	0.14

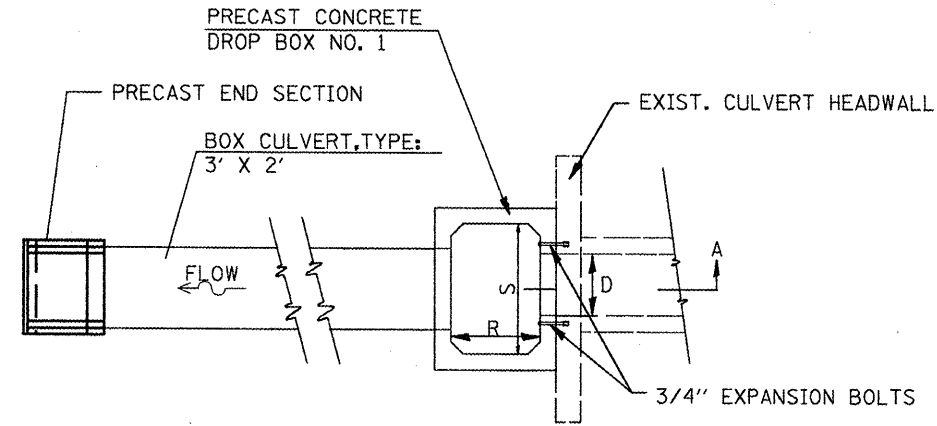
NOTE:

1. THE BOTTOM OF THE DROP BOX SHALL BE FILLED WITH 1 FT. OF CONCRETE, WHICH SHALL BE 1 FT. BELOW THE FLOWLINE OF THE PROPOSED BOX CULVERT. THE WORK AND MATERIAL SHALL BE INCLUDED IN THE COST OF THE DROP BOX.
2. THE TERMS AS1 & AS2 DENOTES THE MINIMUM REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATION A185.
3. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATION.

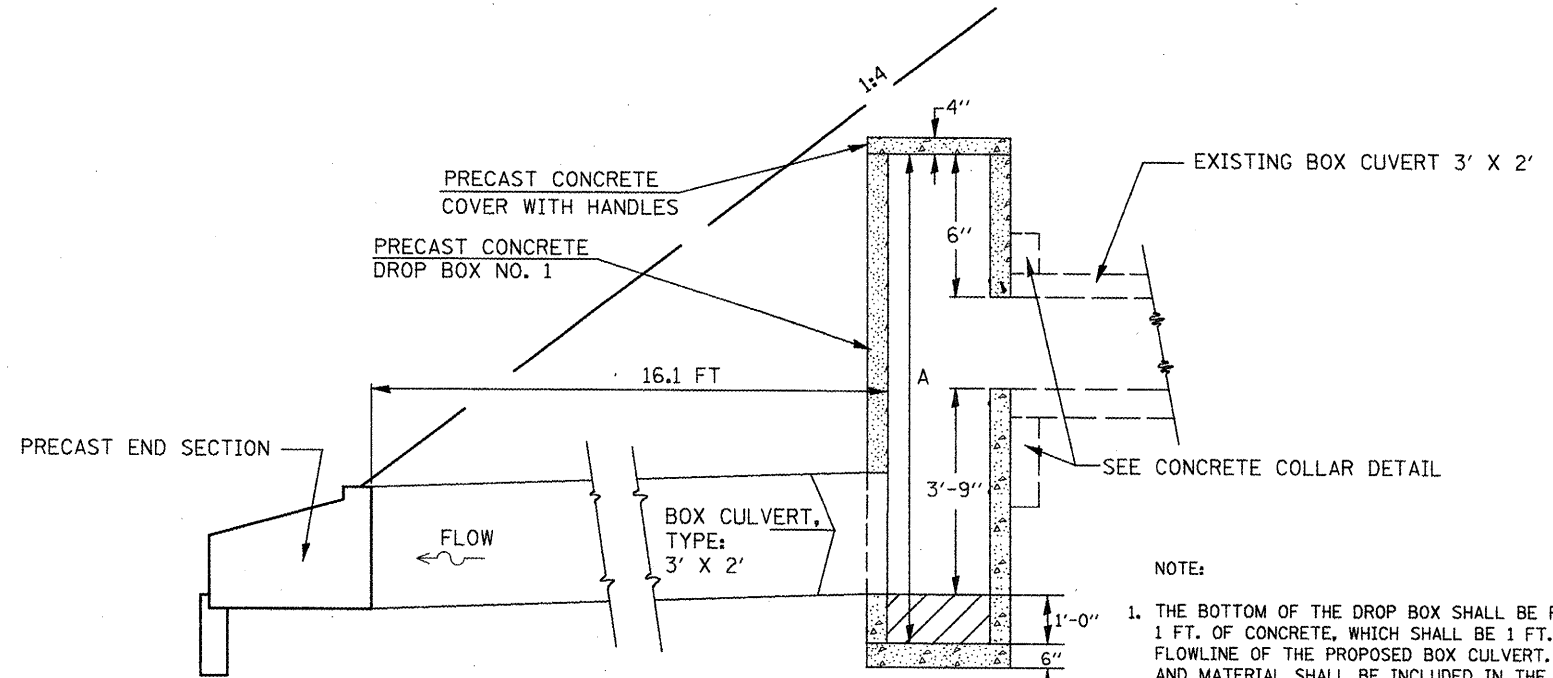
LOCATION	DROP BOX NO.	DROP BOX SIZE		A	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL	PIPE HANDRAIL
		S x R	B x C						
RT. STA. 112+47.07	2	4' x 4'	3' x 3'	5'-4"	2.7	1.4	4.0	2.0	18
RT. STA. 153+74.76	3	5' x 5'	4' x 4'	7'-1/2"	3.4	1.7	5.4	2.7	22
RT. STA. 178+23.90	4	4' x 4'	3' x 3'	5'-7"	2.4	1.2	4.0	2.0	18
RT. STA. 184+00.12	5	3' x 3'	2' x 2'	4'-0"	1.6	0.8	2.8	1.4	FRAME & GRATE*
RT. STA. 221+24.61	6	3' x 3'	18" DIA	3'-6"	1.6	0.8	2.8	1.4	14

*FRAME AND GRATE USED SHALL BE ACCORDING TO HIGHWAY STD. 542546
THE FRAME AND GRATE SHALL BE INCLUDED IN THE COST OF DROP BOX NO. 5.

DRAWING NOT TO SCALE



PLAN



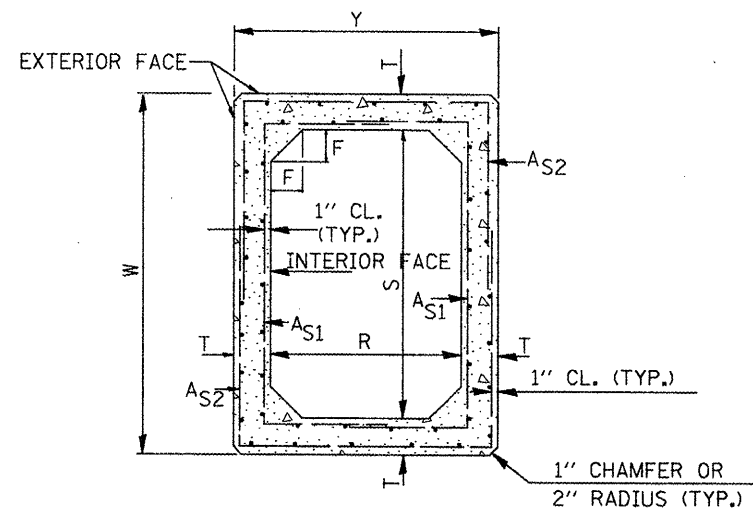
SECTION A-A

NOTE:

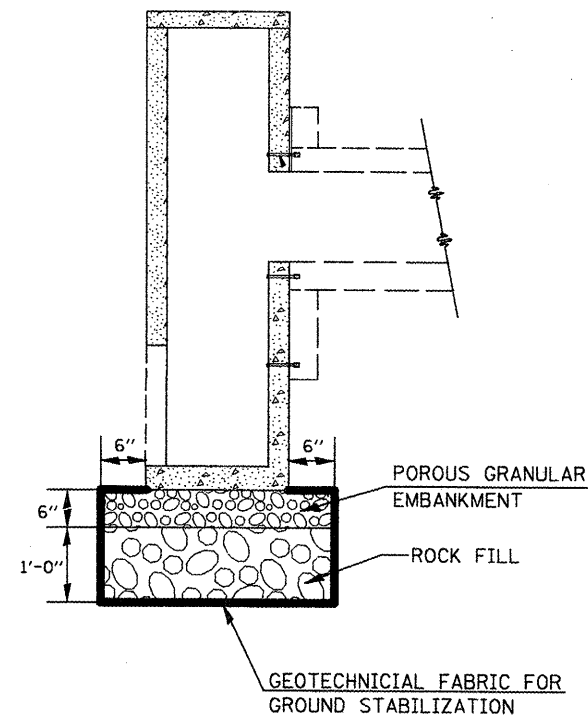
1. THE BOTTOM OF THE DROP BOX SHALL BE FILLED WITH 1 FT. OF CONCRETE, WHICH SHALL BE 1 FT. BELOW THE FLOWLINE OF THE PROPOSED BOX CULVERT. THE WORK AND MATERIAL SHALL BE INCLUDED IN THE COST OF THE DROP BOX.
2. THE TERMS AS1 & AS2 DENOTES THE MINIMUM REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATION A185.
3. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATION.

DIMENSIONS

S x R	T	W	Y	F	A _{S1}	A _{S2}
4' X 4'	6"	5'-0"	5'-0"	5"	0.12	0.12



SECTION THRU DROP BOX

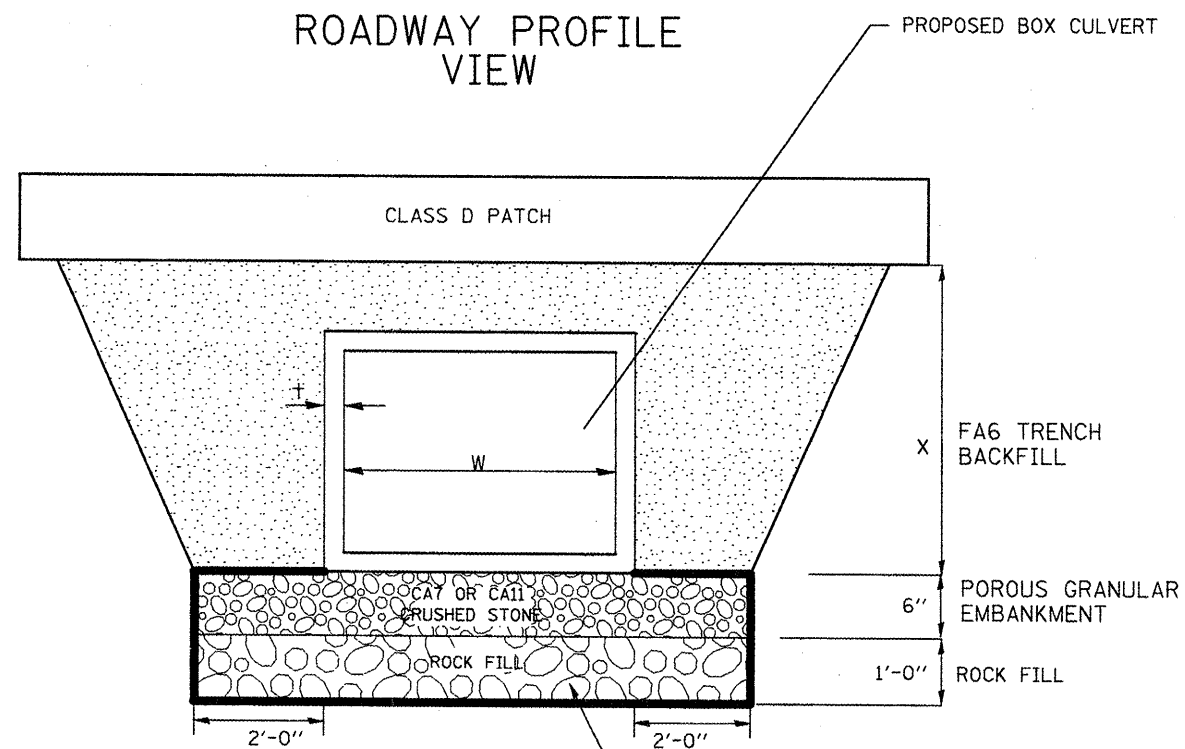


UNDERCUT TREATMENT

LOCATION	DROP BOX NO.	BOX SIZE	A	ROCK FILL	POROUS GRANULAR EMBANKMENT	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL
		S X R	FEET	TON	TON	SQ YD	CU YD
RT. STA. 36+05.86	1	4' X 4'	7'-1"	2.7	1.4	4.0	2.0

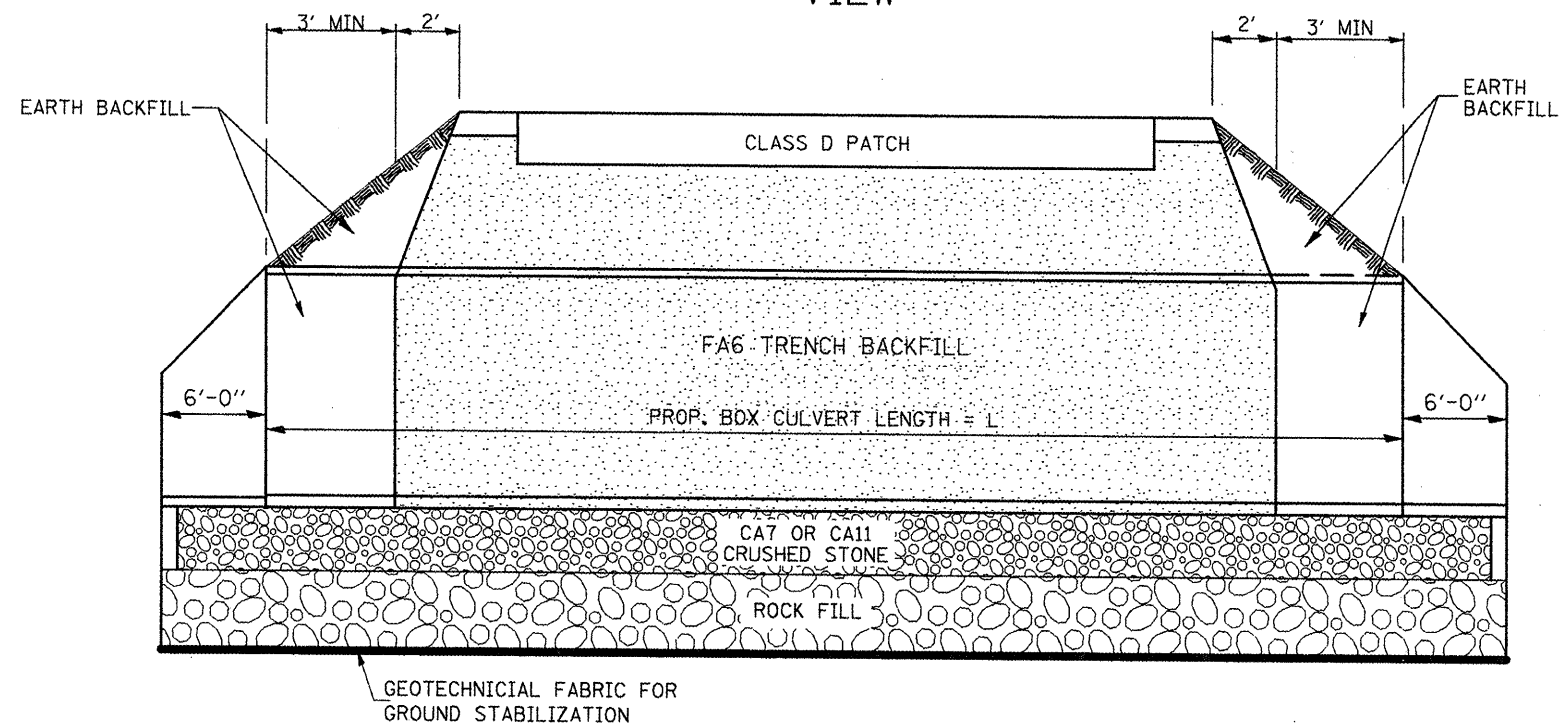
DRAWING NOT TO SCALE

ROADWAY PROFILE VIEW



PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCK FILL WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. PAID FOR BY RESPECTIVE PAY ITEMS

ROADWAY CROSS SECTION VIEW



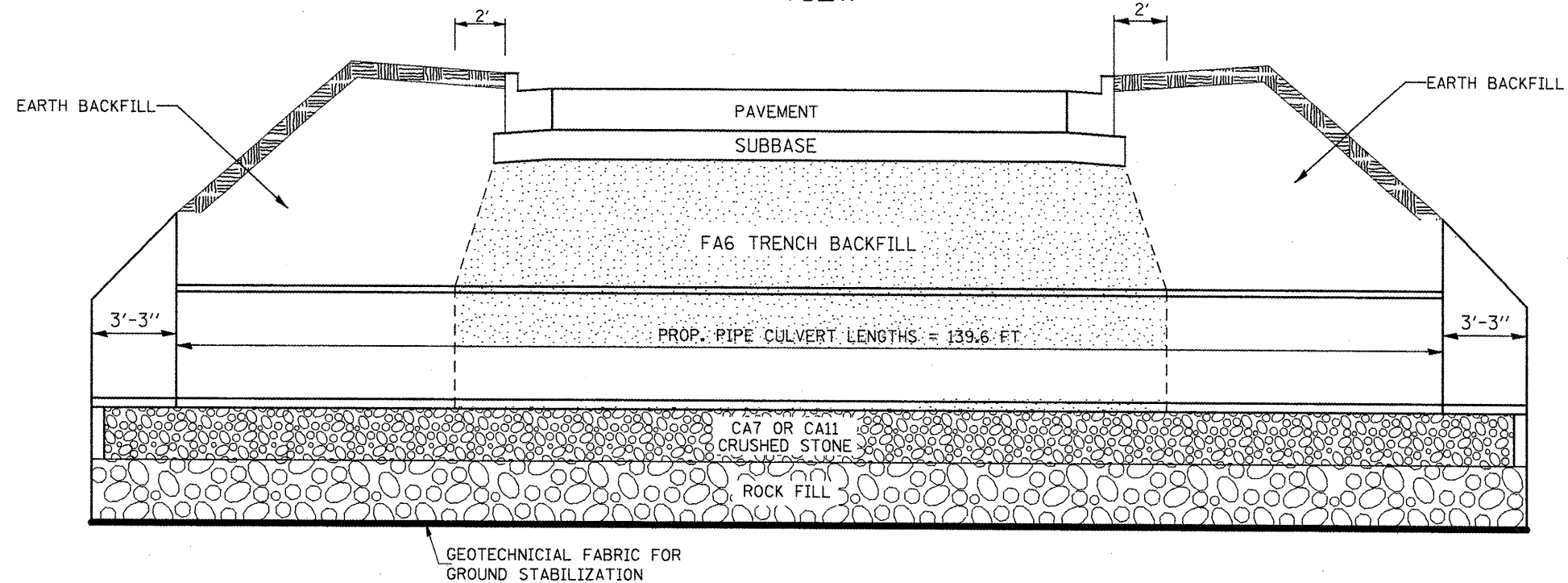
NOTES:

1. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. THE COST OF THE TRENCH BACKFILL SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM.

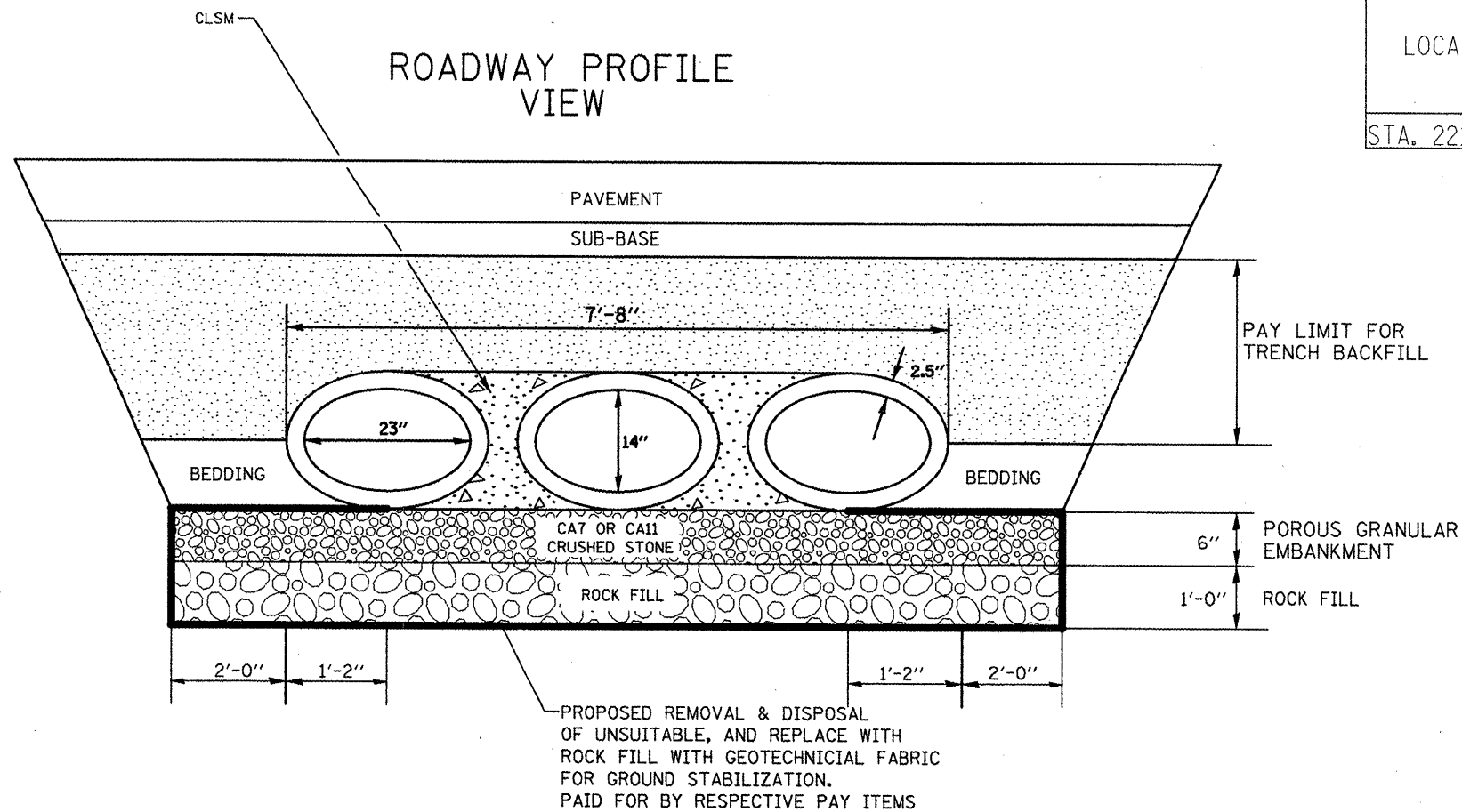
LOCATION	W	†	L	ROCK FILL	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL.
	FEET	INCHES	FEET	TON	SQ YD	CU YD
STA. 4+80.00	2	4	82.3	47.73	143.2	34.9
STA. 24+00.00	2	4	71	42.01	126.0	30.7
STA. 42+00.00	3	4	72	48.90	136.9	35.8
STA. 58+05.00	2	4	74	43.53	130.6	31.9
STA. 75+24.85	2	4	74	43.53	130.6	31.9
STA. 77+56.14	2	4	74	43.53	130.6	31.9
STA. 80+48.74	2	4	74	43.53	130.6	31.9
STA. 84+56.42	2	4	76.5	44.80	134.4	32.8

DRAWING NOT TO SCALE

ROADWAY CROSS SECTION VIEW



ROADWAY PROFILE VIEW



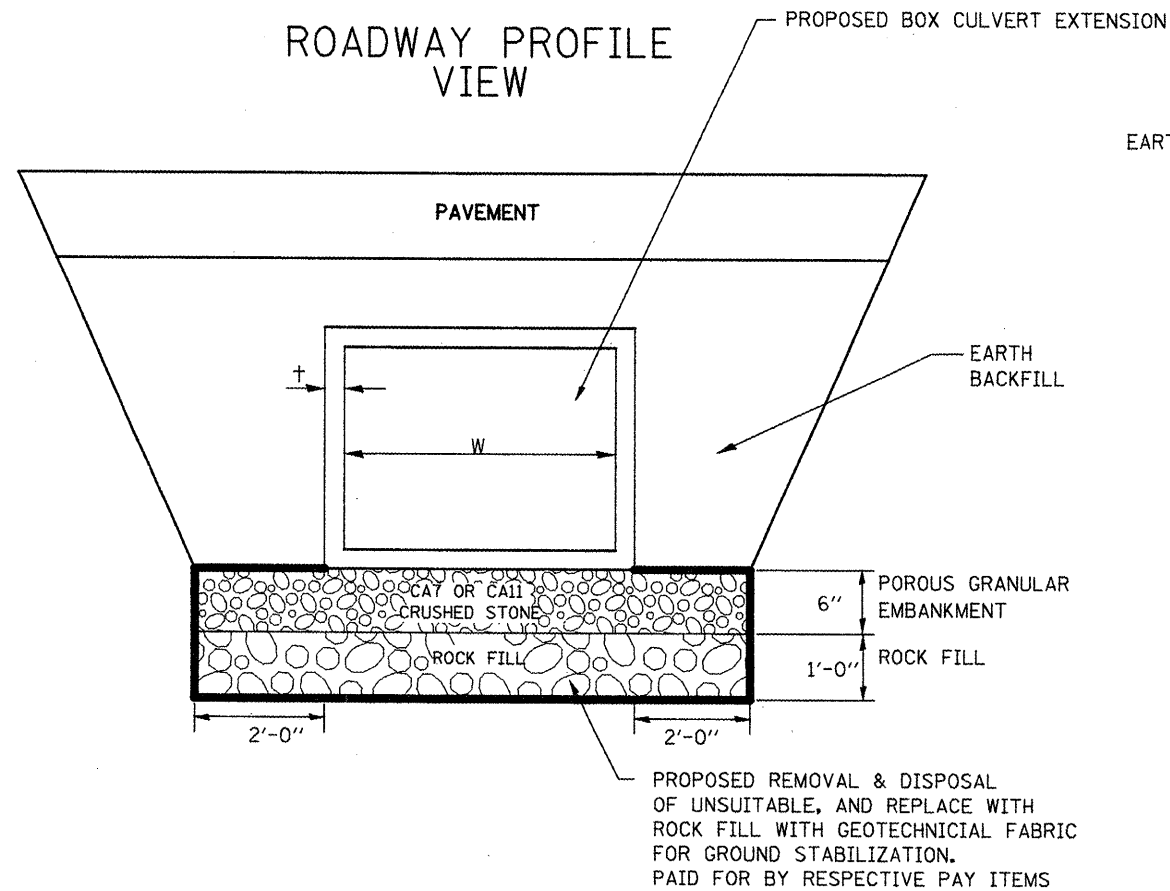
LOCATION	WIDTH	LENGTH	ROCK FILL	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL	TRENCH BACKFILL	CLSM
	FEET	FEET	TON	SQ YD	CU YD	CU YD	CU YD
STA. 221+68.46	11.67	139.6	123.7	325.9	90.5	44.5	13.6

NOTES:

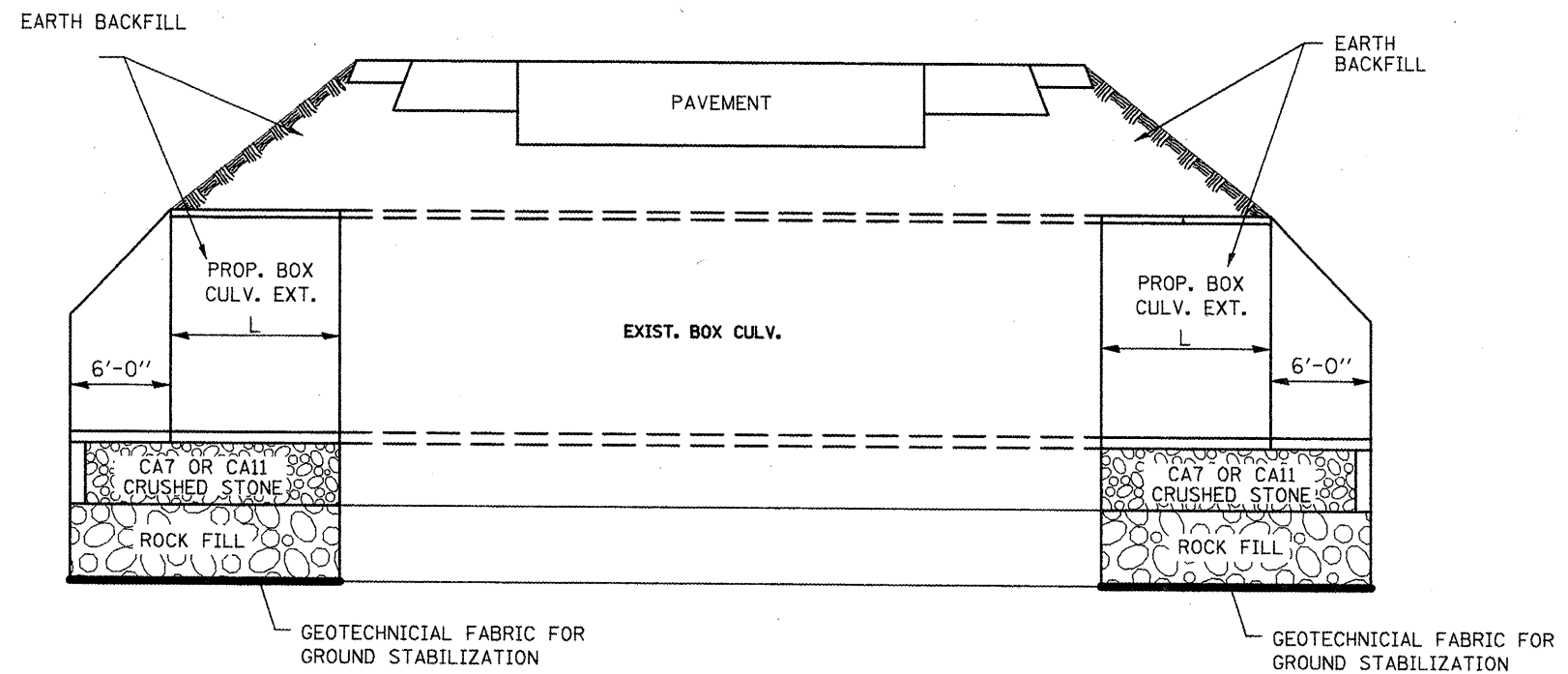
1. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 542 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 542.04 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST PIPE CULVERT PAY ITEM.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. THE COST OF THE TRENCH BACKFILL SHALL BE INCLUDED IN THE COST OF THE PRECAST PIPE CULVERT PAY ITEM.

DRAWING NOT TO SCALE

ROADWAY PROFILE VIEW



ROADWAY CROSS SECTION VIEW



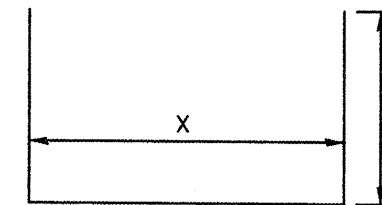
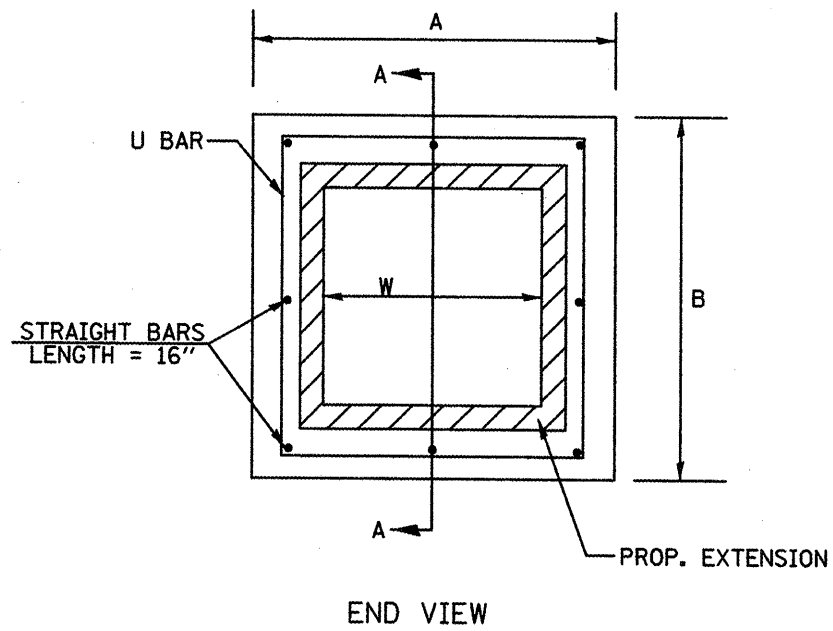
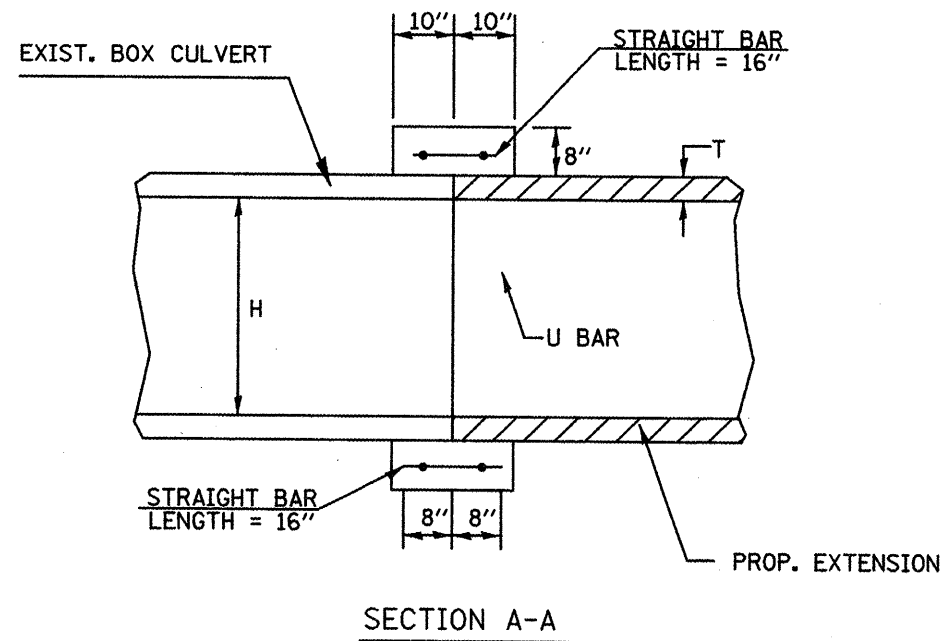
NOTES:

1. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM AND THE PRECAST BOX CULVERT END SECTION PAY ITEM.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.

LOCATION	W	t	L	ROCK FILL	GEOTECH. FABRIC	REMOVAL OF UNSUITABLE MATERIAL.
	FEET	INCHES	FEET	TON	SQ YD	CU YD
LT. STA. 36+05.86	3	4	17	13.39	37.5	9.8
RT. STA. 36+05.86*	3	4	16.1	9.37	26.2	6.9
LT. STA. 71+06.15	2	4	16.3	11.29	33.9	8.3
RT. STA. 71+06.15	2	4	12.1	9.16	27.5	6.7
LT. STA. 94+15.99	2	4	15.1	10.68	32.0	7.8
RT. STA. 94+15.99	2	4	11.8	9.01	27.0	6.6
STA. 98+00	SEE BOX CULVERT EXTENSION DETAIL					
LT. STA. 112+47.02	3	4	30.6	21.30	59.6	15.6
RT. STA. 112+47.02*	3	4	12.9	7.51	21.0	5.5
STA. 124+21.91	SEE BOX CULVERT EXTENSION DETAIL					
LT. STA. 153+74.76	4	5	14.7	13.88	36.4	10.2
RT. STA. 153+74.76*	4	5	15.3	10.26	26.9	7.5
STA. 155+19.78	SEE BOX CULVERT EXTENSION DETAIL					
LT. STA. 178+23.90	3	4	16.3	12.98	36.3	9.5
RT. STA. 178+23.90*	3	4	12.6	10.83	20.5	5.4
LT. STA. 184+00.12	2	4	7.9	7.04	21.1	5.1
RT. STA. 184+00.12*	2	4	6	6.07	9.1	2.2

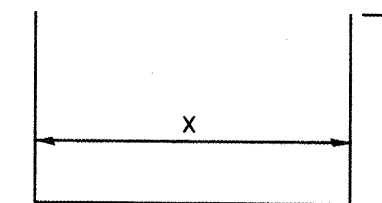
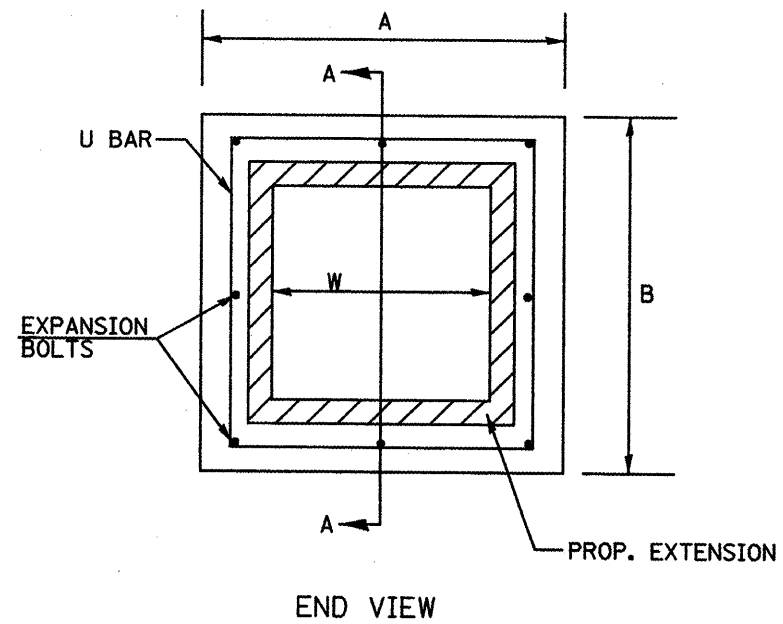
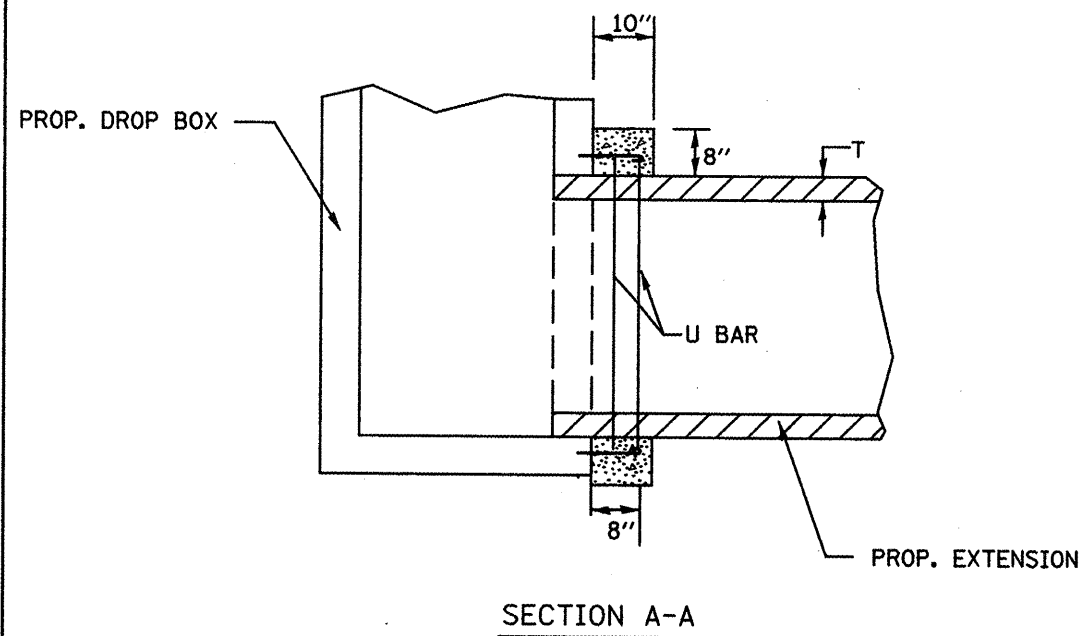
*END TREATMENT IS A DROP STRUCTURE. SEE DROP STRUCTURE DETAIL.

DRAWING NOT TO SCALE



#4 U BAR
8 BARS REQUIRED
PER COLLAR
*1 FT. MIN. LAP ON U BARS

METHOD 1



#4 U BAR
4 BARS REQUIRED
PER COLLAR
*1 FT. MIN. LAP ON U BARS

METHOD 2

DRAWING NOT TO SCALE

FILE NAME = d-aindetail.dgn	USER NAME = ghdraem	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COLLAR DETAIL FOR BOX
CULVERT EXTENSIONS SHEET 1 OF 2

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	036J37W&RS-3436R109BR-1	HENDERSON		153
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 88773

METHOD 1

EXISTING BOX		A	B	T*	EACH COLLAR				POUNDS
W FT	H FT				CLASS SI	REINFORCEMENT BARS		STRAIGHT BARS	
					CU YD	X	Y	NO.	
2	2	4'-0"	4'-0"	4"	0.55	3'-4"	2'-2"	8	48
3	2	5'-0"	5'-0"	4"	0.63	4'-4"	2'-2"	8	53
3	3	5'-0"	5'-0"	4"	0.71	4'-2"	2'-8"	8	58
4	4	6'-2"	6'-2"	5"	0.9	5'-6"	3'-3"	12	75
4	6	6'-2"	8'-2"	5"	1.07	5'-6"	4'-3"	14	88
6	6	8'-6"	8'-6"	7"	1.28	7'-10"	4'-5"	16	103
6	8	8'-8"	10'-8"	8"	1.47	8'-0"	5'-6"	18	118

METHOD 2

EXISTING BOX		A	B	T*	EACH COLLAR				
W FT	H FT				CLASS SI	REINFORCEMENT BARS		EXPAN. BOLTS	
					CU YD	X	Y	POUNDS	NO.
2	2	4'-0"	4'-0"	4"	0.27	3'-4"	2'-2"	19	8
3	2	5'-0"	5'-0"	4"	0.32	4'-4"	2'-2"	24	8
3	3	5'-0"	5'-0"	4"	0.36	4'-2"	2'-8"	23	8
4	4	6'-2"	6'-2"	5"	0.45	5'-6"	3'-3"	31	12

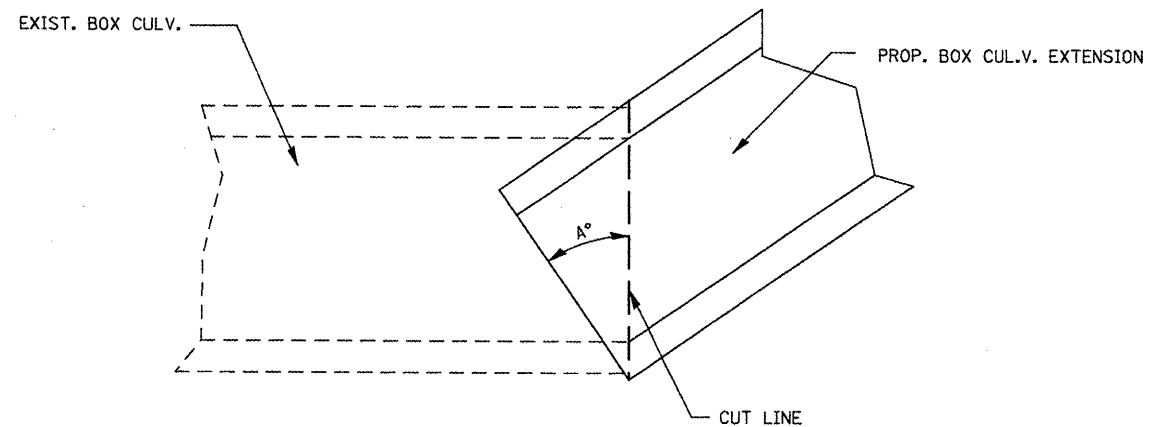
CONCRETE COLLAR BILL OF MATERIAL						
LOCATION	CULVERT SIZE	METHOD 1	METHOD 2	CONC. COLLAR CU YD	REINF. BARS POUNDS	EXPAN. BOLTS 3/4" EACH
RT STA. 36+05.86	3' X 2'		2	0.64	24	16
LT STA. 71+06.15	2' X 2'	1		0.55	48	
RT STA. 71+06.15	2' X 2'	1		0.55	48	
LT STA. 94+15.99	2' X 2'	1		0.55	48	
RT STA. 94+15.99	2' X 2'	1		0.55	48	
LT STA. 98+00	4' X 6'	1		1.07	88	
RT STA. 98+00	4' X 6'	1		1.07	88	
RT STA. 112+47.90	3' X 3'	1	1	1.07	81	8
LT STA. 124+21.91	6' X 8'	1		1.47	118	
RT STA. 124+21.91	6' X 8'	1		1.47	118	
LT STA. 153+74.76	4' X 4'	1		0.9	75	
RT STA. 153+74.76	4' X 4'	1	1	1.35	106	12
LT STA. 155+19.78	6' X 6'	1		1.28	103	
RT STA. 155+19.78	6' X 6'	1		1.28	103	
LT STA. 178+23.90	3' X 3'	1		0.71	58	
RT STA. 178+23.90	3' X 3'	1	1	1.07	81	8
LT STA. 184+00.12	2' X 2'	1		0.55	48	
RT STA. 184+00.12	2' X 2'	1	1	0.82	67	8
TOTAL				17.0	1350	52

NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE AND IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
2. EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, AND 3/4 HOOK BOLTS WHICH CONFORM TO SECTION 1006.08. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.
3. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

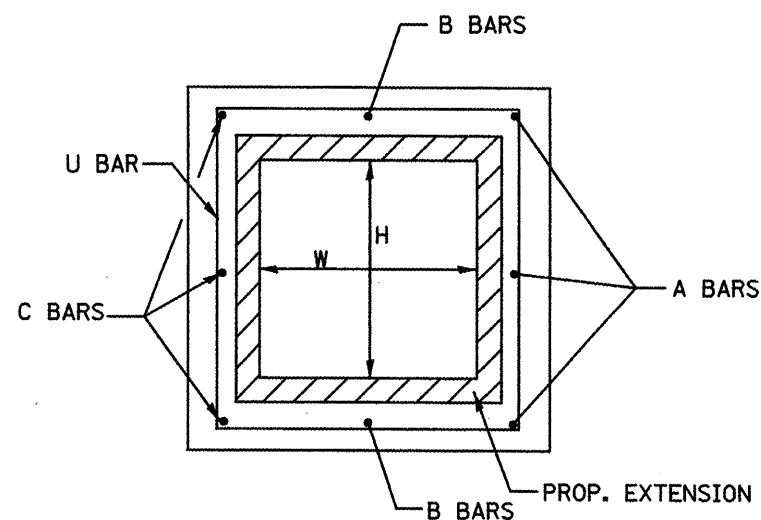
DRAWING NOT TO SCALE

FILE NAME = d-randetail.dgn	USER NAME = ghadineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COLLAR DETAIL FOR BOX CULVERT EXTENSIONS SHEET 2 OF 2	F.A.P. RTE. 665	SECTION (136,137)W&RS-3436R109BR-1	COUNTY HENDERSON	TOTAL SHEETS 154	SHEET NO. 154	
	PLLOT SCALE = 1/8" = 100.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
	PLLOT DATE = 1/20/2009	CHECKED -	REVISED -			CONTRACT NO. 88773					
		DATE -	REVISED -								

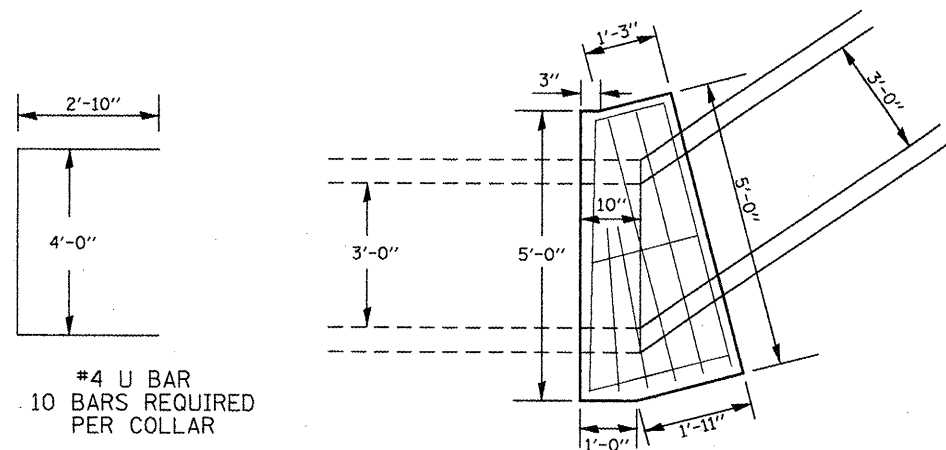


LT. STA. 36+05.86 A = 15.74°
 LT. STA. 112+47.90 A = 32.74°

CUT DIAGRAM

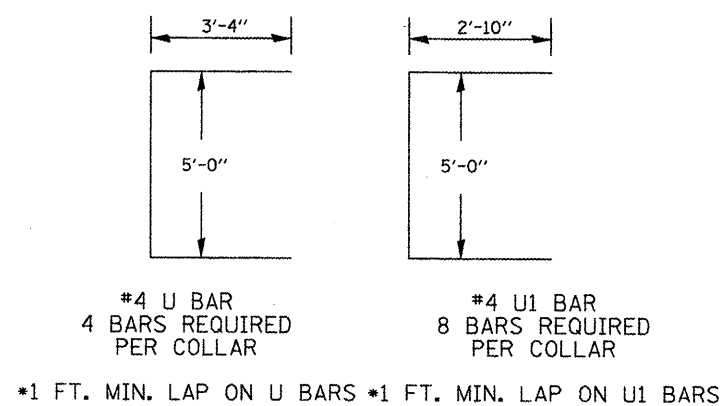


END VIEW



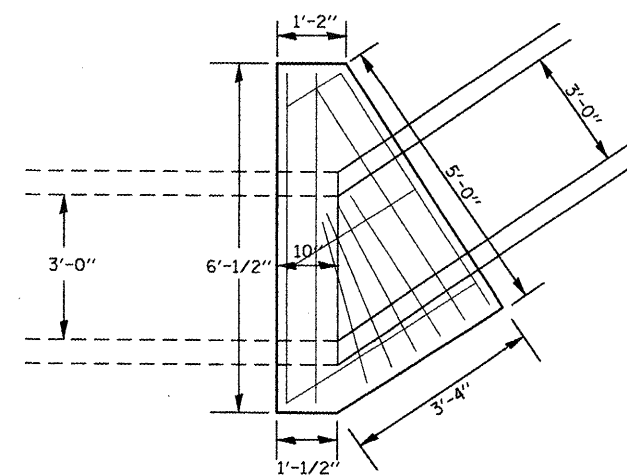
*1 FT. MIN. LAP ON U BARS

PLAN VIEW
 LT. STA. 36+05.86



*1 FT. MIN. LAP ON U BARS *1 FT. MIN. LAP ON U1 BARS

PLAN VIEW
 LT. STA. 112+47.90



NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE AND IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
2. EXPANSION BOLTS SHAL CONSIST OF APPROVED EXPANSION ANCHORS, AND 3/4 HOOK BOLTS WHICH CONFORM TO SECTION 1006.08. THESE BOLTS SHALL EXTEND AT LEAST 8 INCHES INTO THE NEW CONCRETE.
3. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508 OF THE STANDARD SPECIFICATION.

SKEWED CONCRETE COLLAR BILL OF MATERIAL

LOCATION	CULVERT SIZE W X H	A	B	C	CONC. COLLAR CU YD	REINF. BARS POUND
		FOOT	FOOT	FOOT		
LT. STA. 36+05.86	3' X 2'	1'-3"	2'-10"	2'-6"	0.96	77
LT. STA. 112+47.90	3' X 3'	1'-1"	2'-8"	3'-10"	1.56	102
TOTAL					2.5	179.0

DRAWING NOT TO SCALE



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

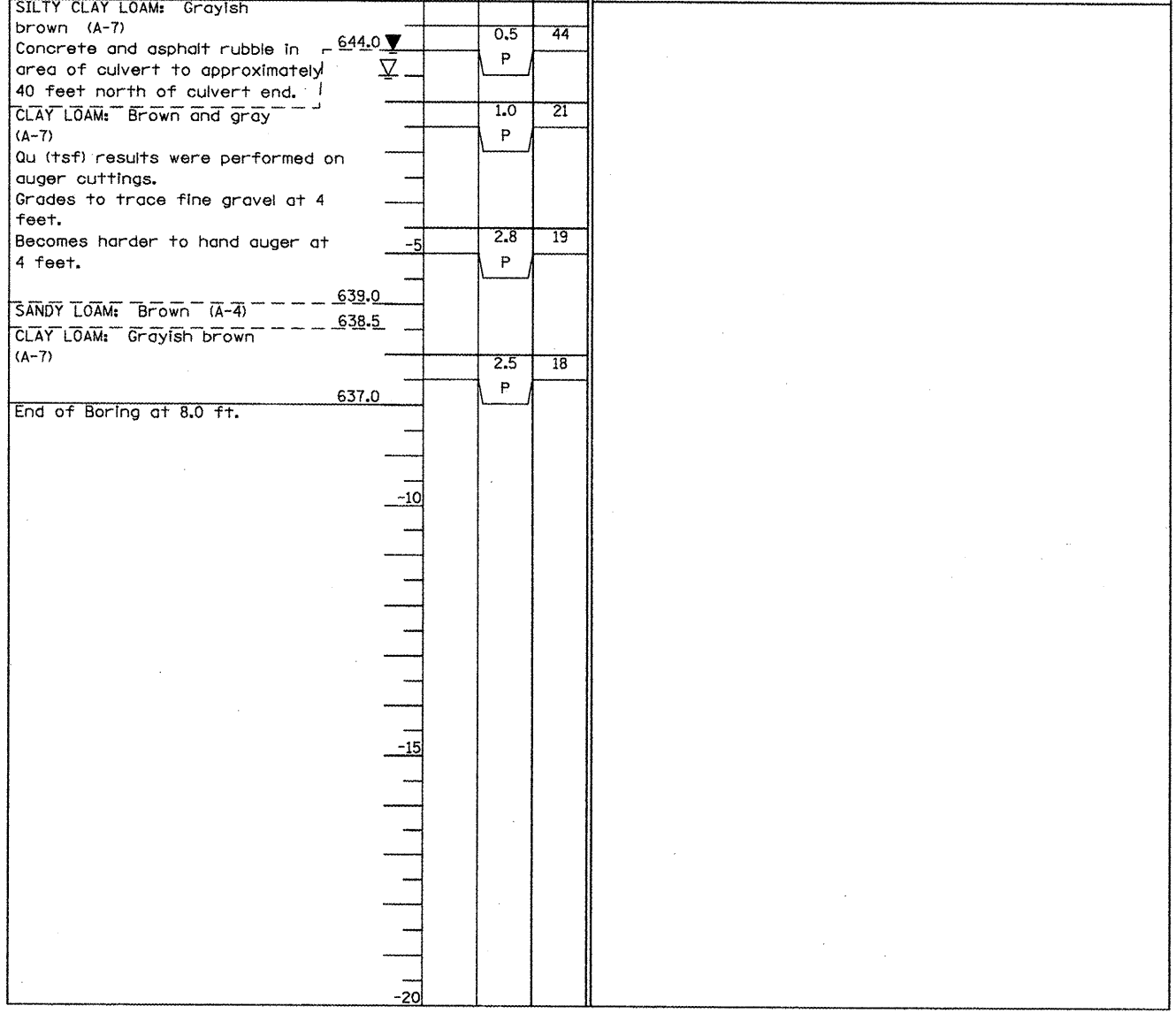
Page 1 of 1

Date 1/6/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; NE 1/4, SEC. 17, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD Hand Auger HAMMER TYPE N/A

STRUCT. NO. _____
 Station _____
 BORING NO. 29
 Station 97+35
 Offset 80.00ft Lt
 Ground Surface Elev. 645.0 ft

D	B	U	M	Surface Water Elev.
E	L	C	O	ft
P	O	S	I	Stream Bed Elev.
T	W	S	S	ft
H	S	Qu	T	Groundwater Elev.:
				First Encounter <u>644.0ft</u> ▼
				Upon Completion <u>643.5</u> ft ▼
				After - Hrs. <u>Backfilled</u> ft



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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

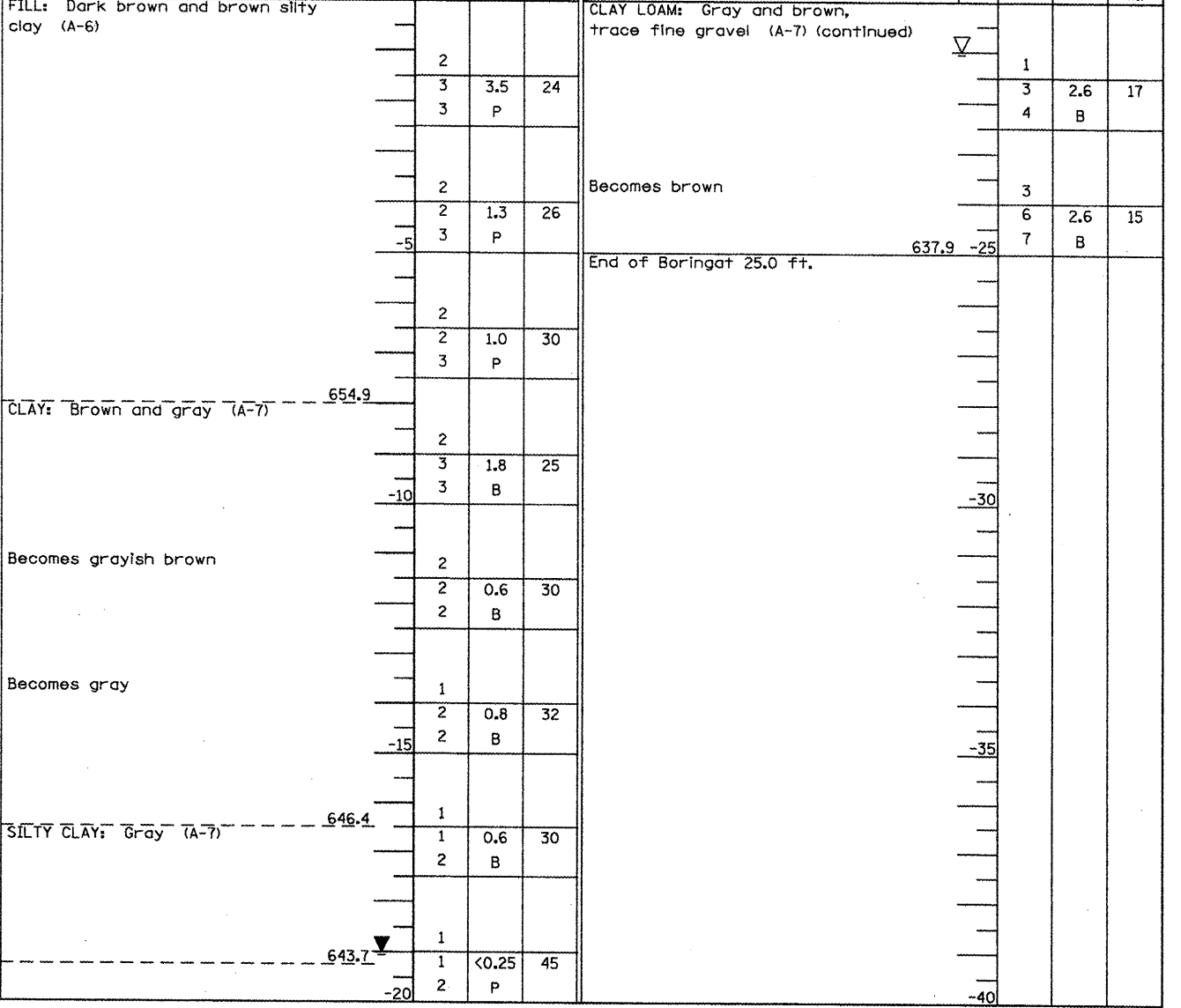
Page 1 of 1

Date 12/10/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; NE 1/4, SEC. 17, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. 30
 Station 97+63
 Offset 16 ft Lt
 Ground Surface Elev. 662.9 ft

D	B	U	M	Surface Water Elev.
E	L	C	O	ft
P	O	S	I	Stream Bed Elev.
T	W	S	S	ft
H	S	Qu	T	Groundwater Elev.:
				First Encounter <u>643.9</u> ft ▼
				Upon Completion <u>641.9</u> ft ▼
				After - Hrs. <u>Backfilled</u> ft



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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)

FILE NAME = miscsheets.dgn	USER NAME = ghadineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			665	(136,137)W&RS-3;136R;109BR-2	HENDERSON	156	CONTRACT NO. 88773
		CHECKED -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.			
		DATE	REVISED -							



Illinois Department
of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 12/10/08

ROUTE _____ DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION (136, 137)W&RS-3; 136R; LOCATION Media Township; NE 1/4, SEC. 17, TWP. 9N, RNG. 4W,

COUNTY _____ DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. _____
Station _____
Offset _____
Ground Surface Elev. _____ ft

D	B	U	M	Surface Water Elev.	D	B	U	M
E	L	C	O	ft	E	L	C	O
P	O	S	I	ft	P	O	S	I
T	W	S	T		T	W	S	T
H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
				First Encounter				
				643.9				
				ft				
				Upon Completion				
				641.9				
				ft				
				After _____ Hrs.				
				Backfilled				
				ft				

FILL:	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
Dark brown and brown silty					CLAY LOAM: Gray and brown, trace fine gravel (A-7) (continued)				
	2					1			
	3	3.5	24			3	2.6	17	
	3	P				4	B		
	2				Becomes brown	3			
	2	1.3	26			6	2.6	15	
	3	P				7	B		
	-5				End of Boring at 25.0 ft.	637.9	-25		
	2								
	2	1.0	30						
	3	P							
654.9									
	2								
	3	1.8	25						
	3	B							
	-10								
	2								
	2	0.6	30						
	2	B							
	1								
	2	0.8	32						
	2	B							
	-15								
646.4									
	1								
	1	0.6	30						
	2	B							
	1								
	1	<0.25	45						
	1								
	1								
	2	P							
	-20								

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)
AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 12/18/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION (136, 137)W&RS-3; 136R; LOCATION Media Township; NE 1/4, SEC. 17, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 750 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. 31
Station 98+12
Offset 33 ft Rt
Ground Surface Elev. 662.0 ft

D	B	U	M	Surface Water Elev.	D	B	U	M
E	L	C	O	ft	E	L	C	O
P	O	S	I	ft	P	O	S	I
T	W	S	T		T	W	S	T
H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
				First Encounter				
				Not observed				
				ft				
				Upon Completion				
				Not observed				
				ft				
				After _____ Hrs.				
				Backfilled				
				ft				

FILL:	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
Soil and concrete rubble					CLAY LOAM: Brown, trace fine gravel (A-7) (continued)				
						3			
						7	3.8	14	
						9	B		
SILTY CLAY LOAM: Dark Brown to brown (A-6)									
659.5									
No recovery - auger cutting collected						3			
	2					5	3.2	14	
	2					7	B		
	-5				End of Boring at 25.0 ft.	637.0	-25		
	2								
	3	1.5	27						
	3	P							
Becomes dark brown to brown									
	1								
	2	1.0	29						
	3	B							
	-10								
	WH								
	2	0.5	34						
	2	B							
Becomes grayish brown, gray, and brown									
	1								
	1	0.8	29						
	3	B							
	-15								
Becomes dark brown									
	WH								
	1	2.2	17						
	4	B							
CLAY LOAM: Brown, trace fine gravel (A-7)									
645.0									
	3								
	5	3.3	15						
	8	B							
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department
of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/6/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 SECTION 136, 137W&RS-3; 136R; LOCATION Media Township; NW 1/4, SEC. 16, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD Hand Auger HAMMER TYPE N/A

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	ft
Station					Stream Bed Elev.	ft
BORING NO. 35					Groundwater Elev.:	
Station 123+90					First Encounter	632.2 ft
Offset 80 ft Lt					Upon Completion	627.7 ft
Ground Surface Elev. 633.18 ft					After Hrs.	Backfilled ft
SANDY LOAM: Brown (A-2)	632.7					
SANDY CLAY LOAM: Brown, trace organics (A-4)	632.2		0.5	23		
CLAY LOAM: Gray, trace organics (A-7)			4.5	13		
Becomes harder to hand auger at 1.5 feet.						
Qu (tsf) results were performed on auger cuttings.						
Grades to trace fine and coarse gravel at 3 feet.	628.7					
Becomes brown and gray at 4 feet.						
SANDY LOAM: Gray and brown, trace fine gravel and clay loam lumps (A-2)	626.7			15		
End of Boring 6.5 ft.						
	-10					
	-15					
	-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 2

Date 12/11/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 SECTION 136, 137W&RS-3; 136R; LOCATION Media Township; NW 1/4, SEC. 16, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	DESCRIPTION	U	M	Surface Water Elev.	ft
Station					Stream Bed Elev.	ft
BORING NO. 36					Groundwater Elev.:	
Station 124+03					First Encounter	Not observed ft
Offset 11 ft Lt					Upon Completion	Not observed ft
Ground Surface Elev. 660.1 ft					After Hrs.	Backfilled ft
ASPHALT - 5 inches	659.7				Trace wood	1 0.8 21
CONCRETE - 7 inches	659.1				CLAY LOAM: Brown and gray, trace fine gravel (A-7)	2 P
FILL: Brown silty clay (A-6)						1
Poor recovery	658.1		1			2 1.3 18
FILL: Brown silt loam (A-4) and Brown silty clay (A-6) mixture			2	19		3 B
			3			3
			3			6 4.4 13
			3	2.3 23		10 B
			5	B		5
FILL: Brown and gray silty clay (A-6)	655.6		3			9 4.2 15
			3	2.3 22		9 B
			4	P	Becomes grayish brown	6
FILL: Brown and gray clay (A-7)	654.1		3			8 2.9 16
			4	2.3 22		11 B
			6	B		3
FILL: Brown silty clay (A-6)	652.6		3			7 4.7 15
			4	3.6 19		9 B
			6	S		3
FILL: Brown silt loam (A-4)	651.1		2			5 2.9 16
			3	1.4 21		8 B
			3	S		3
FILL: Brown silty clay (A-6)	649.6		1			7 4.6 17
			2	2.3 22	SANDY LOAM: Grayish brown, fine (A-2)	23 B
			4	P		4
			1		CLAY LOAM: Brown and gray, trace fine gravel (A-7)	6 3.6 14
			2	1.5 23		11 B
			3	S	Becomes grayish brown	4
			1			8 4.2 16
			2	1.0 24		11 S
			4	P	Becomes brown and gray	3
			1		Approximate 2 inch deposit of fine to medium sand (A-3)	6 3.6 15
			2	1.8 24		9 B
			3	P	Becomes grayish brown and gray	4
SILTY CLAY: Grayish brown (A-6)	643.6		1			5 3.0 18
			2	0.9 25		9 B
			2	B		4
			WH			6 3.0 18
			2	0.5 24	Becomes gray	8 B
			2	B		3
			1			7 3.7 17

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)
 AASHTO Classifications are based on visual classifications unless otherwise noted.

BBS, form 137 (Rev. 8-99)

FILE NAME = mscsheets.dgn	USER NAME = ghdmeam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLDT SCALE = 100,0000' / IN.	CHECKED -	REVISED -
	PLDT DATE = 1/29/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136,137W&RS-3;136R;109BR-2	HENDERSON	158	158
CONTRACT NO. 88773				
ILLINOIS FED. AID PROJECT				



Illinois Department
of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 2 of 2

Date 12/11/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION 109BR-2 LOCATION Media Township, NW 1/4, SEC. 16, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. 36
Station 124+03
Offset 11 ft Lt
Ground Surface Elev. 660.1 ft

D	B	U	M
E	L	C	O
P	O	S	I
T	W	Qu	S
H	S		T

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter Not observed ft
Upon Completion Not observed ft
After _____ Hrs. Backfilled ft

(ft)	(/6")	(tsf)	(%)
8	B		
4			
6	2.4	17	
7	B		
5			
6	2.6	18	
8	B		
2			
4	2.2	15	
9	B		
-45			
3			
4	1.9	17	
6	B		
4			
6	3.2	15	
10	B		
5			
11	5.9	12	
18	B		
610.6			
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department
of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 12/18/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION 109BR-2 LOCATION Media Township, NW 1/4, SEC. 16, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 750 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. 37
Station 124+55
Offset 85 ft Rt
Ground Surface Elev. 637.6 ft

D	B	U	M
E	L	C	O
P	O	S	I
T	W	Qu	S
H	S		T

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter Not observed ft
Upon Completion Not observed ft
After _____ Hrs. Backfilled ft

(ft)	(/6")	(tsf)	(%)
637.1			
3			
3	-	21	
5			
2			
634.6			
3			
6	2.3	30	
-5	B		
3			
5	2.5	16	
7	B		
2			
5	2.9	17	
-10	B		
4			
8	3.8	16	
9	B		
4			
6	3.7	16	
-15	B		
2			
5	3.9	18	
8	B		
3			
4	3.0	16	
-20	B		

(ft)	(/6")	(tsf)	(%)
2			
4	3.1	18	
7	B		
2			
7	3.3	16	
10	B		
612.6			
-25			
-30			
-35			
-40			

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)
AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.
FAP 665 (IL 116) & FAP

SOIL BORING LOG

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION 109BR-2 LOCATION Media Township, NE 1/4, SEC. 16, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. 40
Station 153+46
Offset 55 ft Lt
Ground Surface Elev. 658.3 ft

D	B	U	M
E	L	C	O
P	O	S	I
T	W	Qu	S
H	S		T

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev. _____
First Encounter Not observed ft
Upon Completion Not observed ft
After _____ Hrs. Backfilled ft

(ft)	(/6")	(tsf)	(%)
657.3			
1			
2	2.0	28	
3	B		
2			
3	1.3	24	
3	B		
-5			
652.8			
2			
3	1.5	17	
3	P		
650.3			
6			
7	2.5	19	
12	S		
-10			
647.8			
4			
14	4.5	11	
27	P		
5			
15	4.5	13	
28	P		
-15			
17			
30	4.5	11	
42	P		
23			
100	4.5	11	
638.3	P		
-20			

End of Boring at 20.0 ft.
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)
AASHTO Classifications are based on visual classifications unless otherwise noted.

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.
FAP 665 (IL 116) & FAP

SOIL BORING LOG

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION 109BR-2 LOCATION Media Township, NE 1/4, SEC. 16, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. _____
Station _____

BORING NO. 41
Station 153+62
Offset 43 ft Rt
Ground Surface Elev. 664.7 ft

D	B	U	M
E	L	C	O
P	O	S	I
T	W	Qu	S
H	S		T

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev. _____
First Encounter Not observed ft
Upon Completion 652.7 ft
After _____ Hrs. Backfilled ft

(ft)	(/6")	(tsf)	(%)
661.7			
2			
3	1.1	26	
3	B		
661.7			
1			
2	0.4	32	
2	B		
-5			
659.2			
2			
2	1.4	23	
3	B		
656.7			
2			
3	1.4	20	
3	B		
-10			
649.7			
2			
2	3.1	16	
6	B		
5	2.6	15	
6	B		
-15			
649.7			
-20			

End of Boring at 15.0 ft.
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)
AASHTO Classifications are based on visual classifications unless otherwise noted.

BBS, form 137 (Rev. 8-99)

FILE NAME = miscsheets.dgn	USER NAME = ghdmam	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/29/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136,137W&RS-3+136R109BR-2	HENDERSON		160
				CONTRACT NO. 88773
ILLINOIS FED. AID PROJECT				



Illinois Department
of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/8/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; NE 1/4, SEC. 16, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	Stream Bed Elev.	P	O	S	I
Station	T	W	S	S	ft	H	S	Qu	T
Offset	H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	First Encounter	(ft)	(/6")	(tsf)	(%)
					Upon Completion				
					After				
					Hrs.				
					Backfilled				
					ft				
CRUSHED ROCK & BROWN AND DARK BROWN SILTY CLAY LOAM (A-6)					CLAYEY SHALE: Gray (continued)	100	4.5	10	
FILL: Dark brown silty clay (A-6)	670.3					21			
		3			End of Boring at 22.2 ft.	100	4.5	10	
FILL: Brown silty clay (A-7)	668.8		0.8	25					
		3	P						
		2		27					
		2	B						
		-5							
		2	2.0	22					
		3	B						
FILL: Gray clay (A-7)	665.3								
		1							
		2	1.2	22					
		3	B						
		WH							
		2	1.1	28					
		2	B						
		1							
FILL: Dark brown silty clay loam, some organics (A-6)	661.8	-10	2.3	27					
SILTY CLAY: Dark brown (A-6)	661.3								
		1							
		2	0.3	36					
		2	P						
		1							
		1	<0.25	24					
		2	P						
CLAY: Dark brown (A-7)	658.3								
		1							
SHALEY CLAY: Brown (A-7)	657.6		5.0	20					
		3	S						
		5							
Becomes brown and gray		3							
Observed downstream along stream bed and bank	655.8		7.2	15					
CLAYEY SHALE: Gray		12	S						
		19							
		19							
		25	8.7	10					
		43	S						
		31							
		45	4.5	10					
		65	P						
		-20	36						

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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department
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SOIL BORING LOG

Page 1 of 1

Date 12/12/08

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; NE 1/4, SEC. 16, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO.	P	O	S	I	Stream Bed Elev.	P	O	S	I
Station	T	W	S	S	ft	H	S	Qu	T
Offset	H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	First Encounter	(ft)	(/6")	(tsf)	(%)
					Upon Completion				
					After				
					Hrs.				
					Backfilled				
					ft				
FILL: Brown silty clay (A-6)					CLAYEY SHALE: Gray (continued)				
		2							
No recovery - auger cuttings collected and hand penetrometer test performed on disturbed sample.		2	1.0	21					
		2	P						
FILL: Brown clay (A-7) and Brown, grayish brown, and reddish brown silty clay (A-6) mixture	669.3								
		2							
		2	2.0	22					
		-5	3	P					
SILTY LOAM: Grayish brown (A-4)	666.0								
		1							
		2	0.5	29					
		2	B						
SILTY CLAY: Brown (possible fill) (A-6)	664.3								
		1							
		2	1.0	30					
		-10	3	B					
SILTY CLAY LOAM: Brown (A-7)	661.8								
		1							
CLAY: Gray and brown (A-7)	660.3		0.5	23					
		1	B						
SHALEY CLAY: Gray and brown (A-7)	659.3								
		2							
		4	2.6	16					
		-15	12	B					
CLAYEY SHALE: Gray	656.8								
		7							
		12	10.5	13					
		19	S						
		10							
		28	4.5	11					
		-20	43	P					

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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 1/7/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION (136, 137)W&RS-3; 136R; LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 036-0034 (existing) Station Station 19+67 Offset 11 ft Lt Ground Surface Elev. 742.1 ft

Table with columns for soil type, depth (ft), blow count (B), penetration (P), and soil classification (S, Qu, T). Includes descriptions like 'ASPHALT - 2 inches', 'SANDY LOAM: Gray (A-2)', and 'SILTSTONE with SANDY SHALE: Gray'.

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) AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 1/7/09

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI

SECTION (136, 137)W&RS-3; 136R; LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,

COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

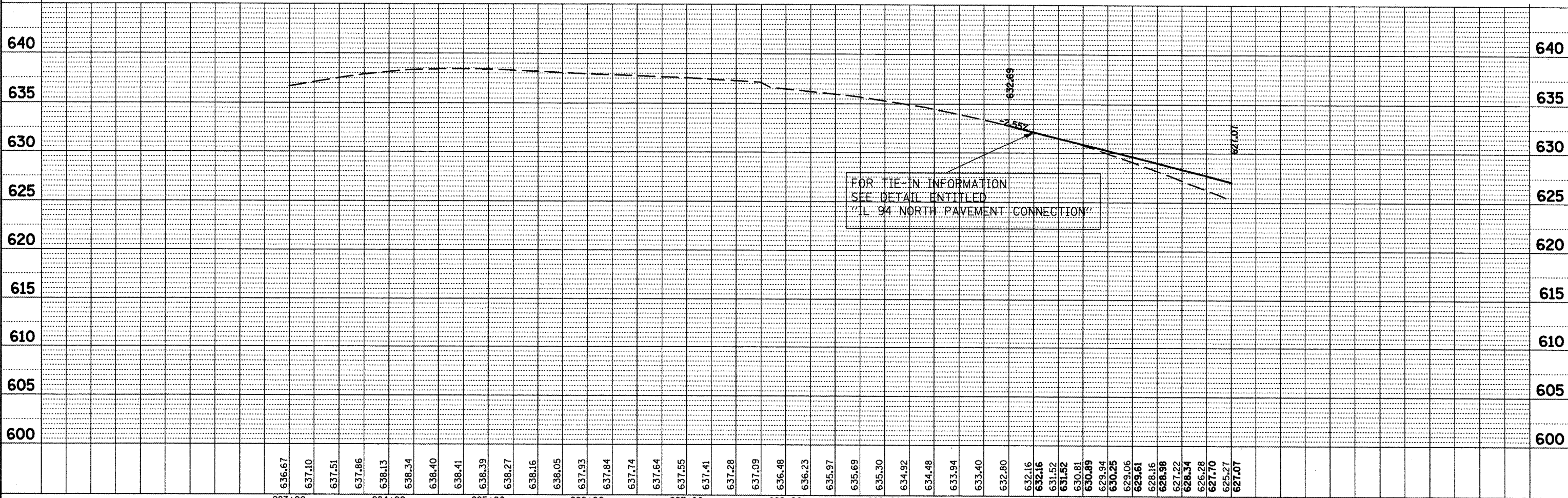
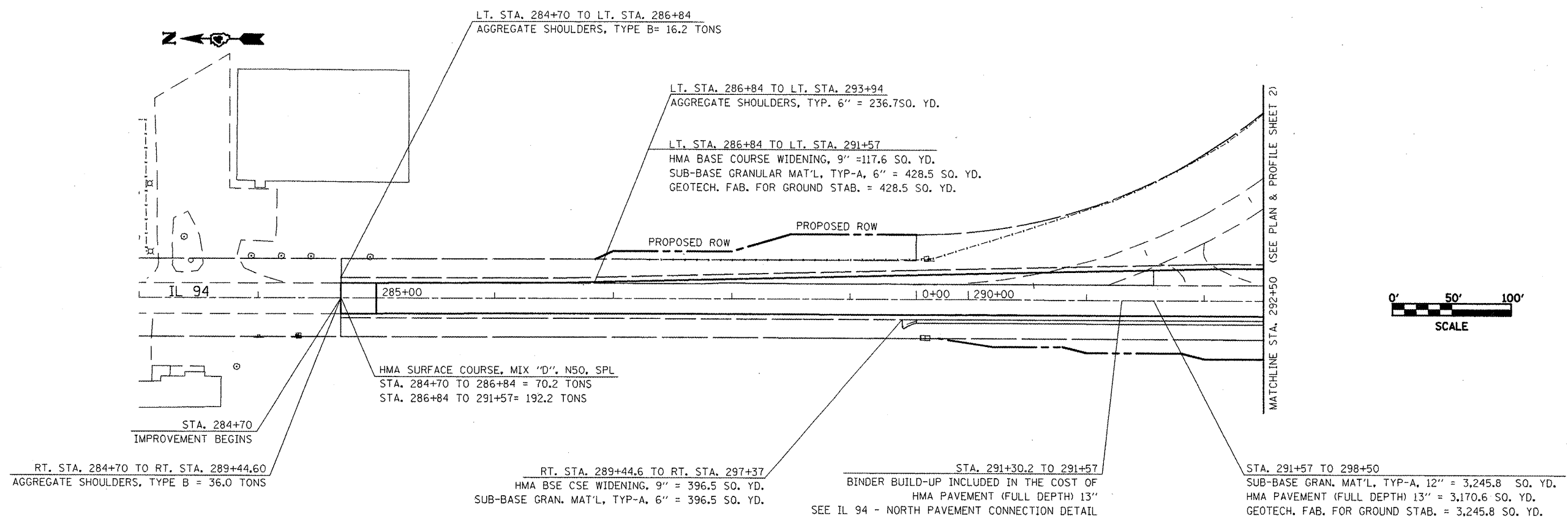
STRUCT. NO. 036-0034 (existing) Station Station 20+38 Offset 13 ft Rt Ground Surface Elev. 741.4 ft

Table with columns for soil type, depth (ft), blow count (B), penetration (P), and soil classification (S, Qu, T). Includes descriptions like 'CRUSHED ROCK - 8 inches estimated', 'SANDY LOAM: Gray (A-2)', and 'SILTSTONE with SANDY SHALE: Gray'.

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) AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)

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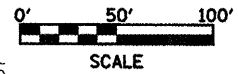
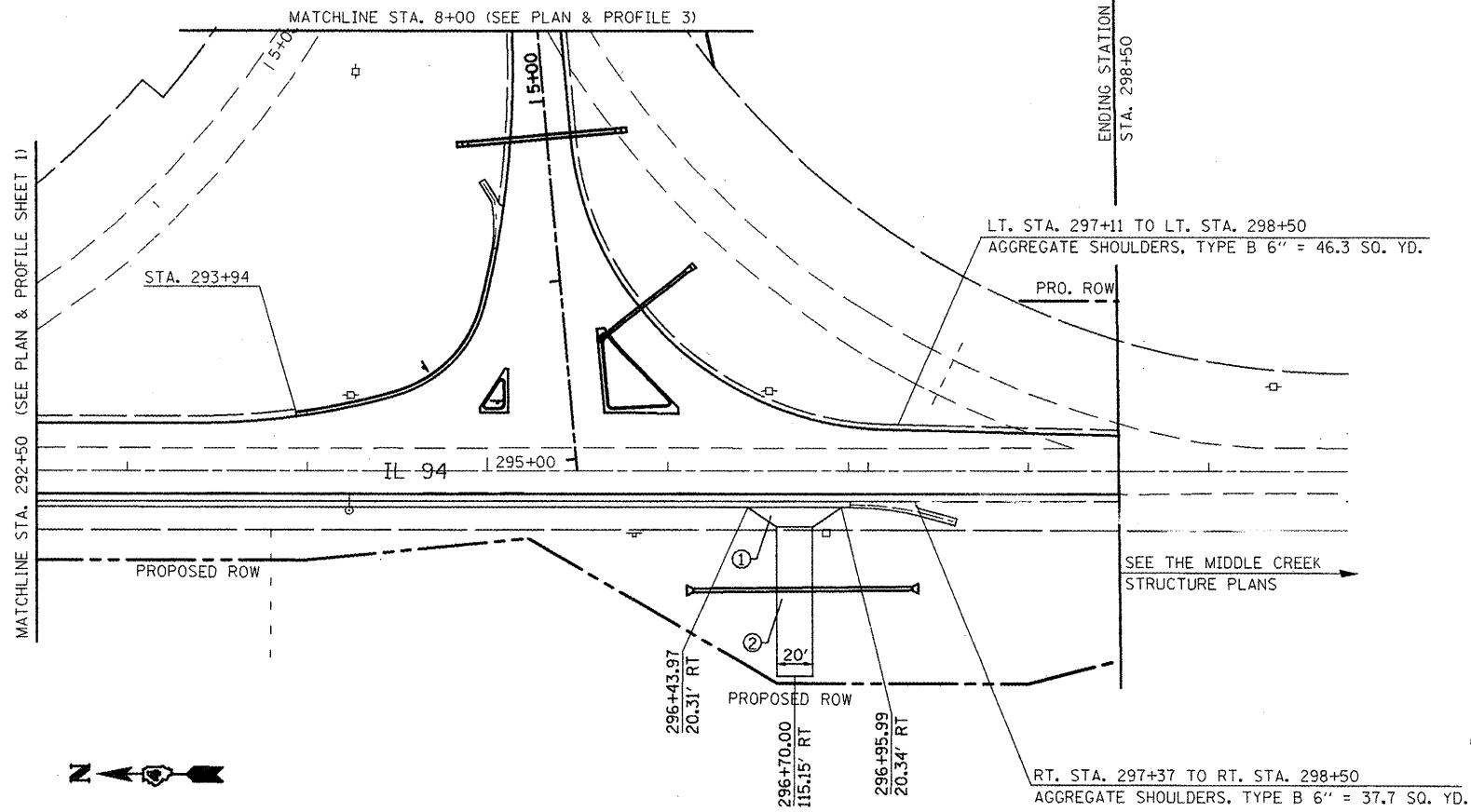


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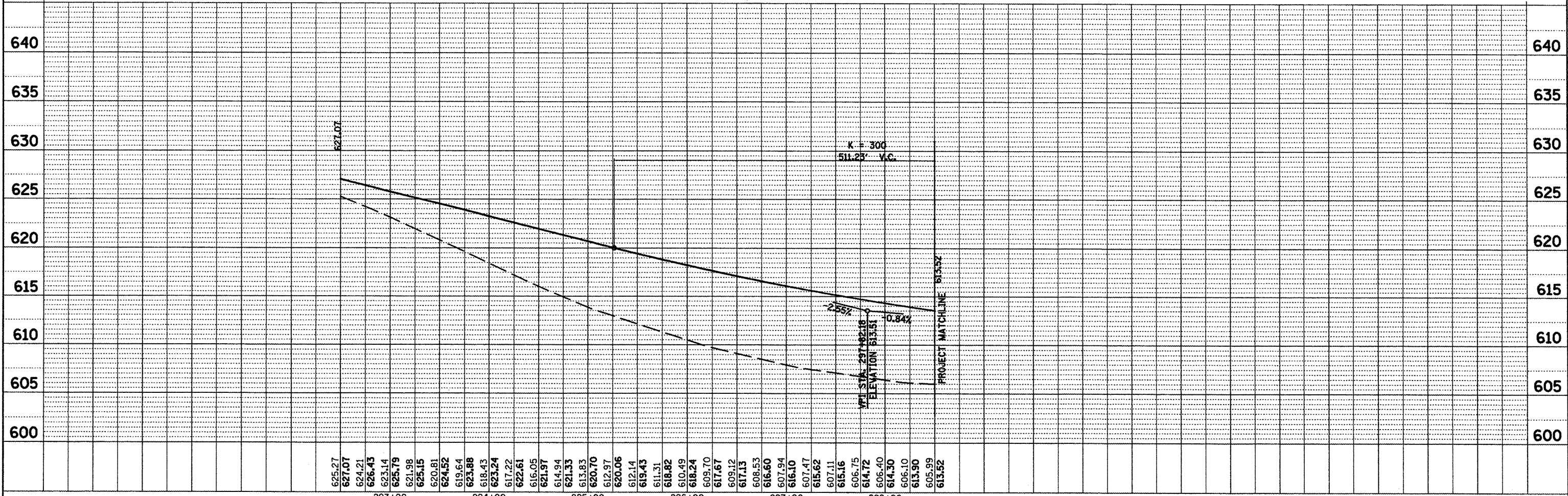
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SEE INTERSECTION DETAIL



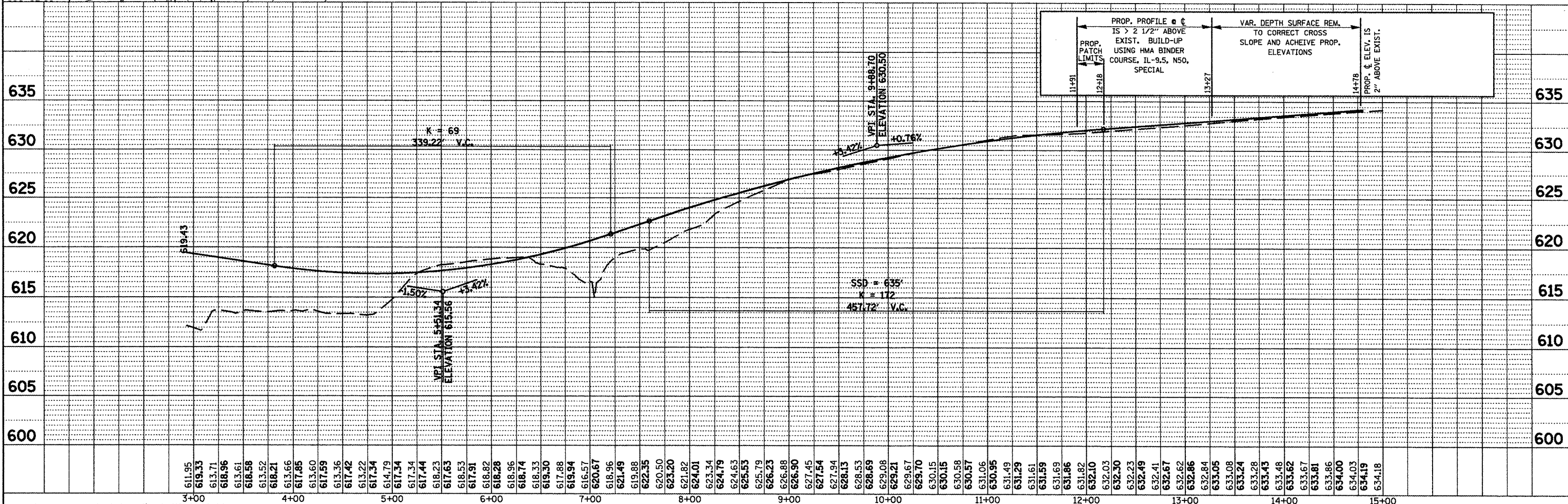
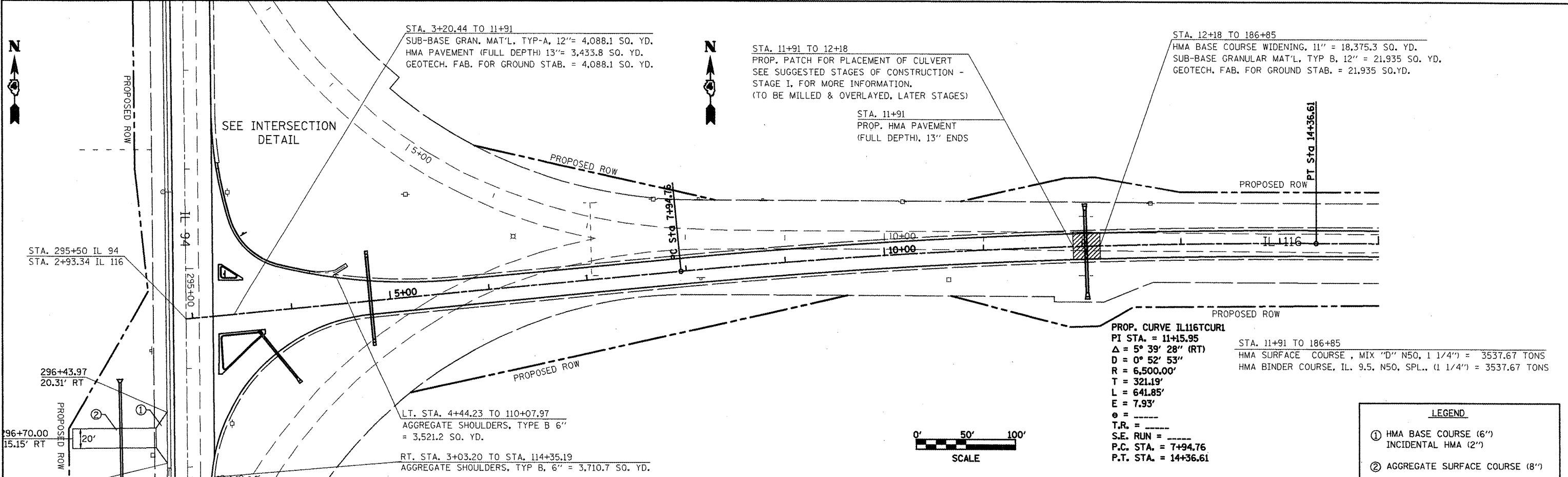
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②	AGGREGATE SURFACE COURSE (8")



FILE NAME = miscsheets.dgn	USER NAME = ghidneam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN/PROFILE IL 94	F.A.P. RTE. 665	SECTION (136.137)W&RS-34136R409BR-2	COUNTY HENDERSON	TOTAL SHEETS 164	SHEET NO. 164	
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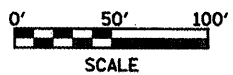
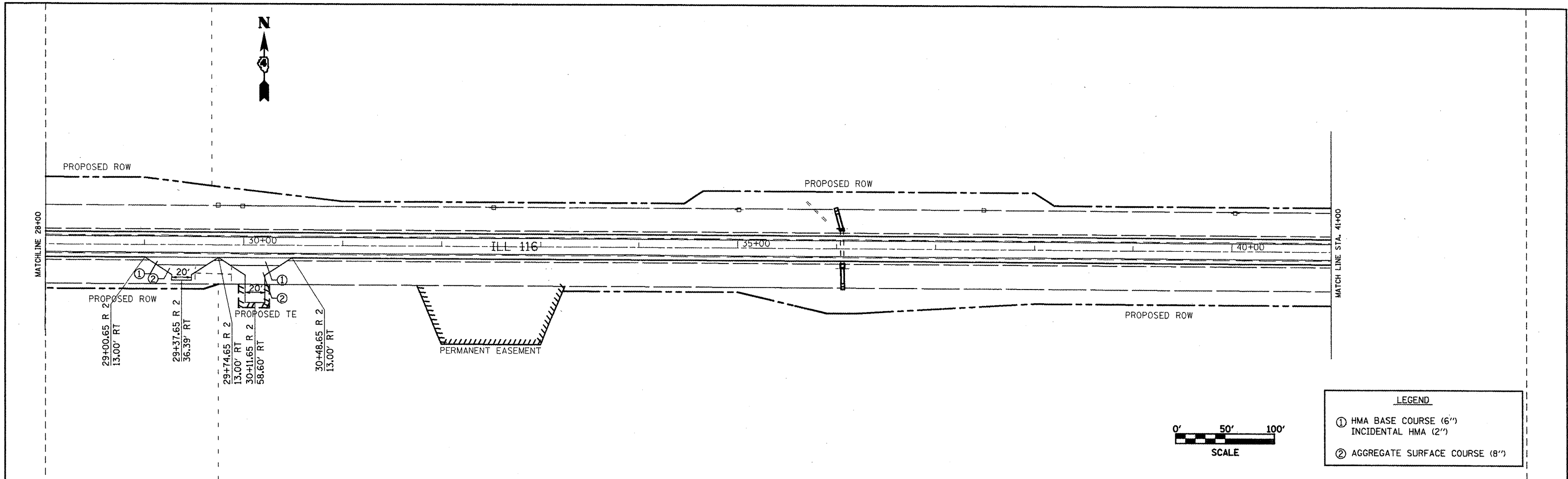
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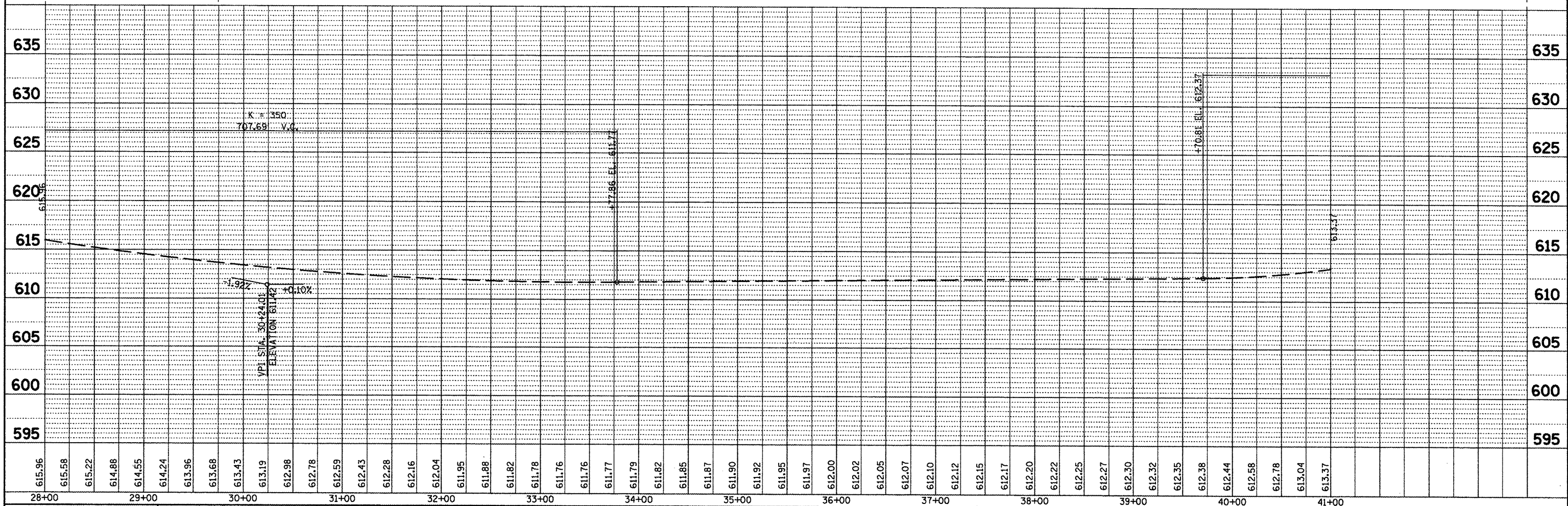
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PLOT DATE = 2/27/2009	DATE -	REVISED -								

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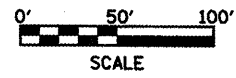
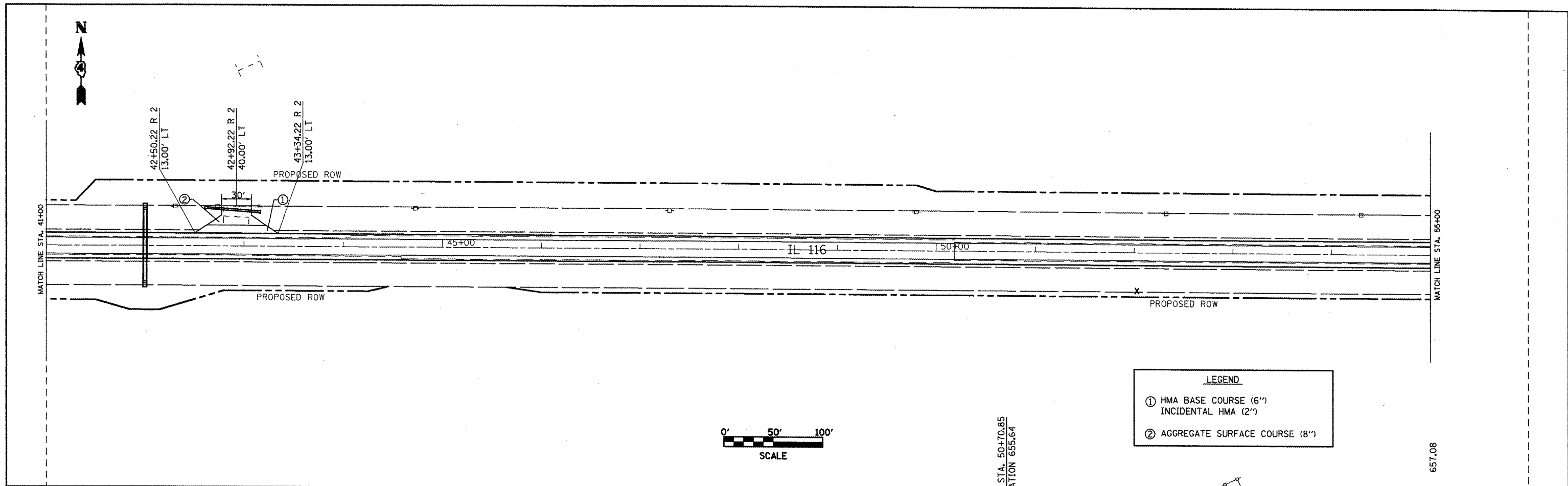
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②	AGGREGATE SURFACE COURSE (8")



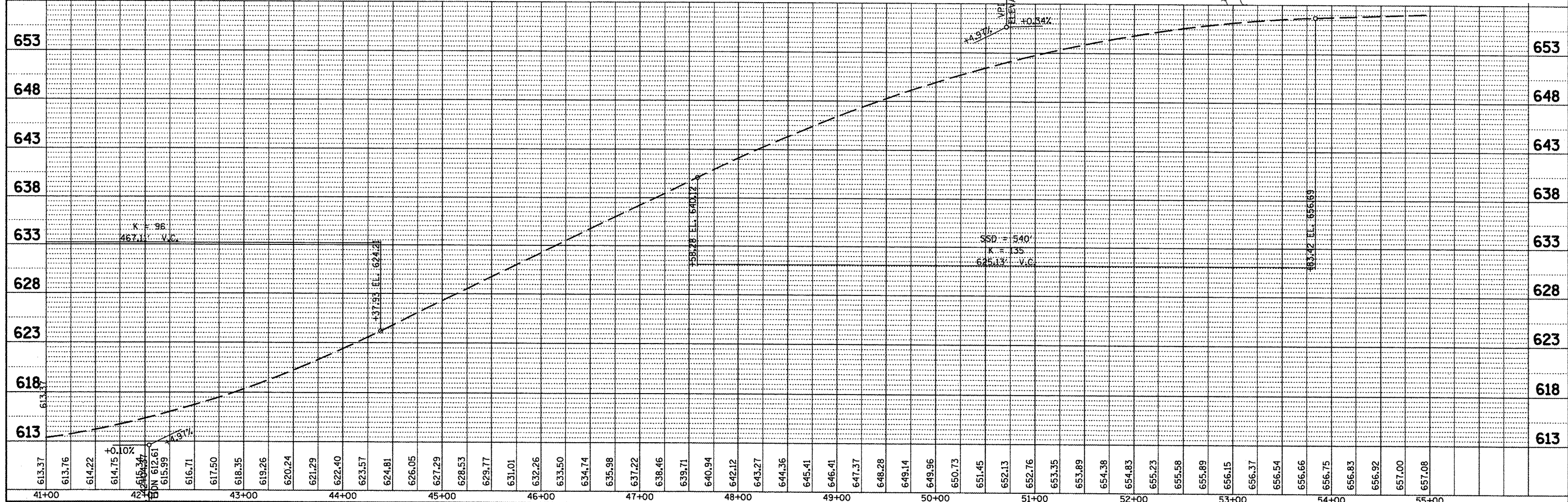
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		DATE -	REVISED -										

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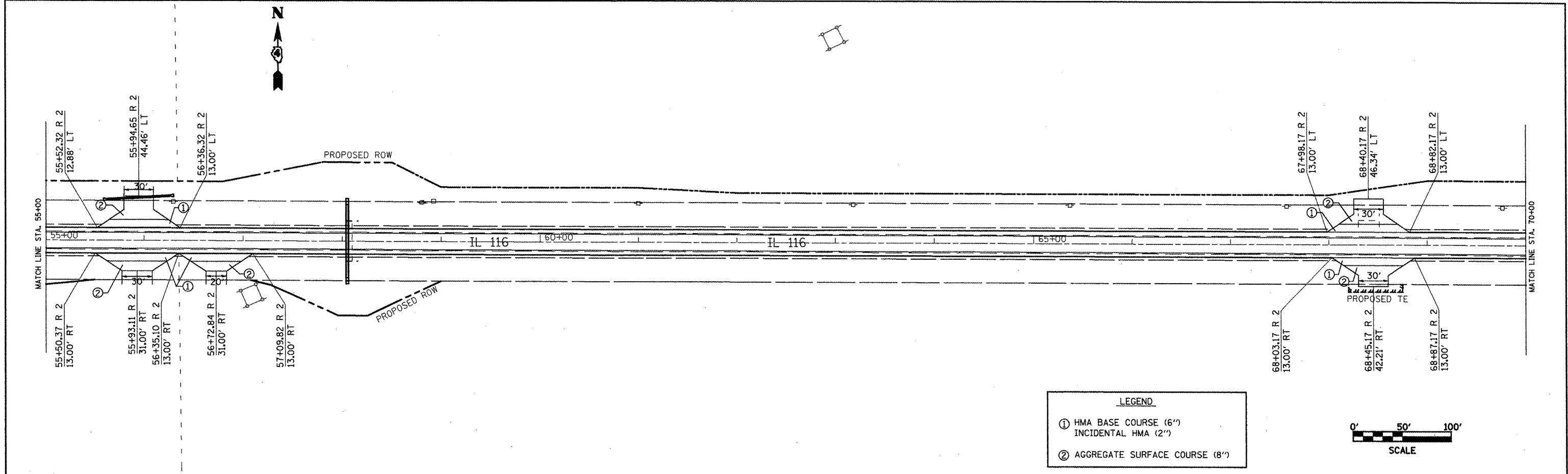
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②	AGGREGATE SURFACE COURSE (8")



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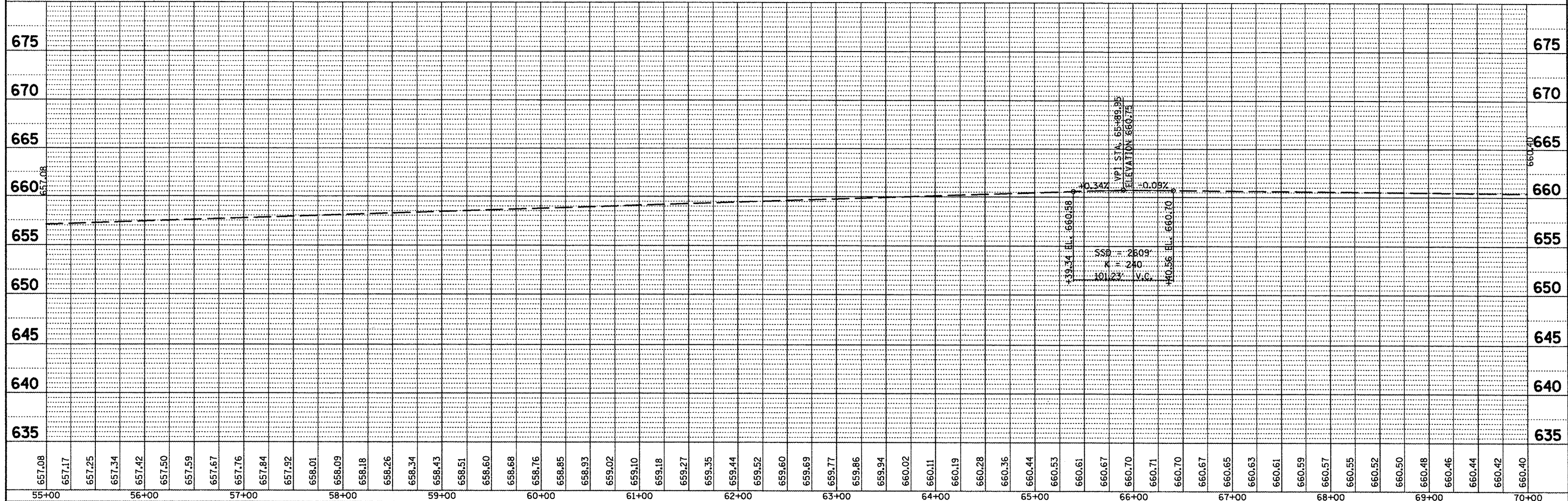
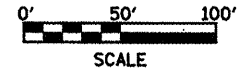
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LEGEND

① HMA BASE COURSE (6")
 INCIDENTAL HMA (2")

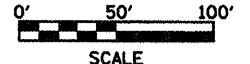
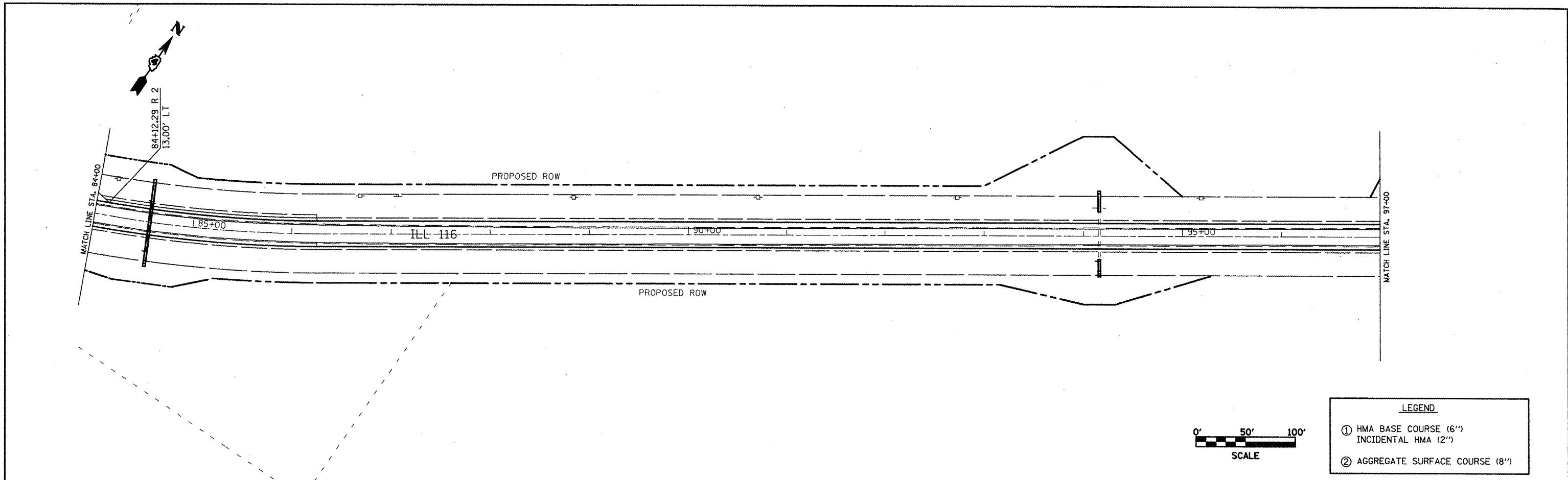
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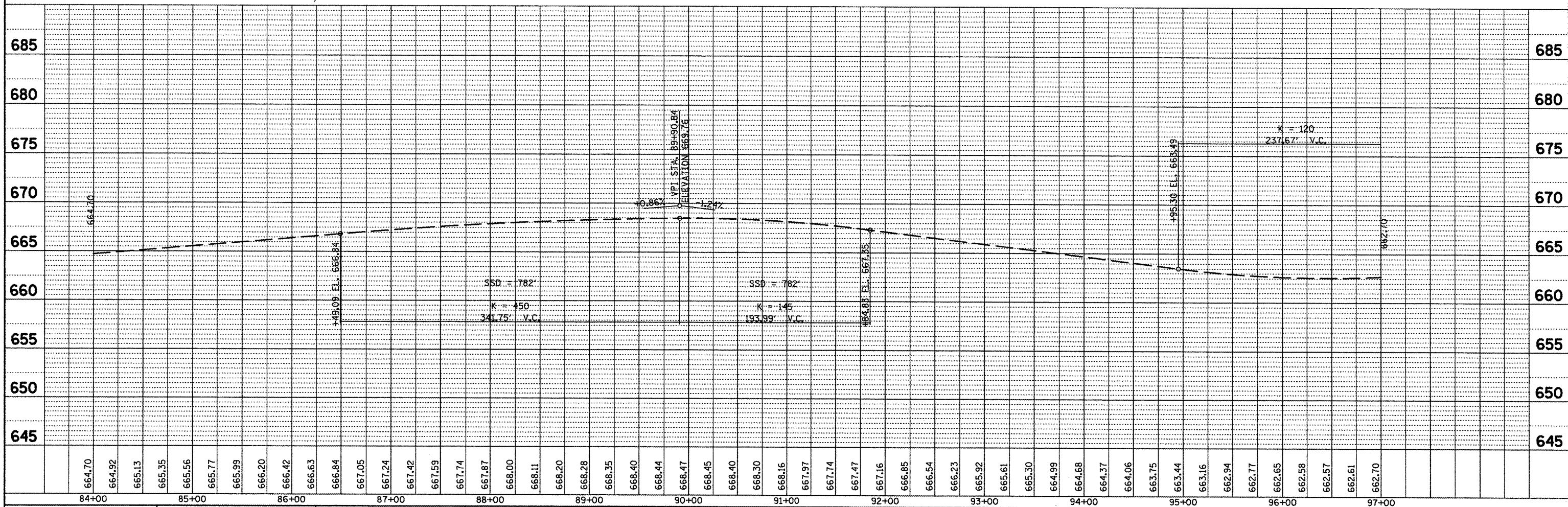
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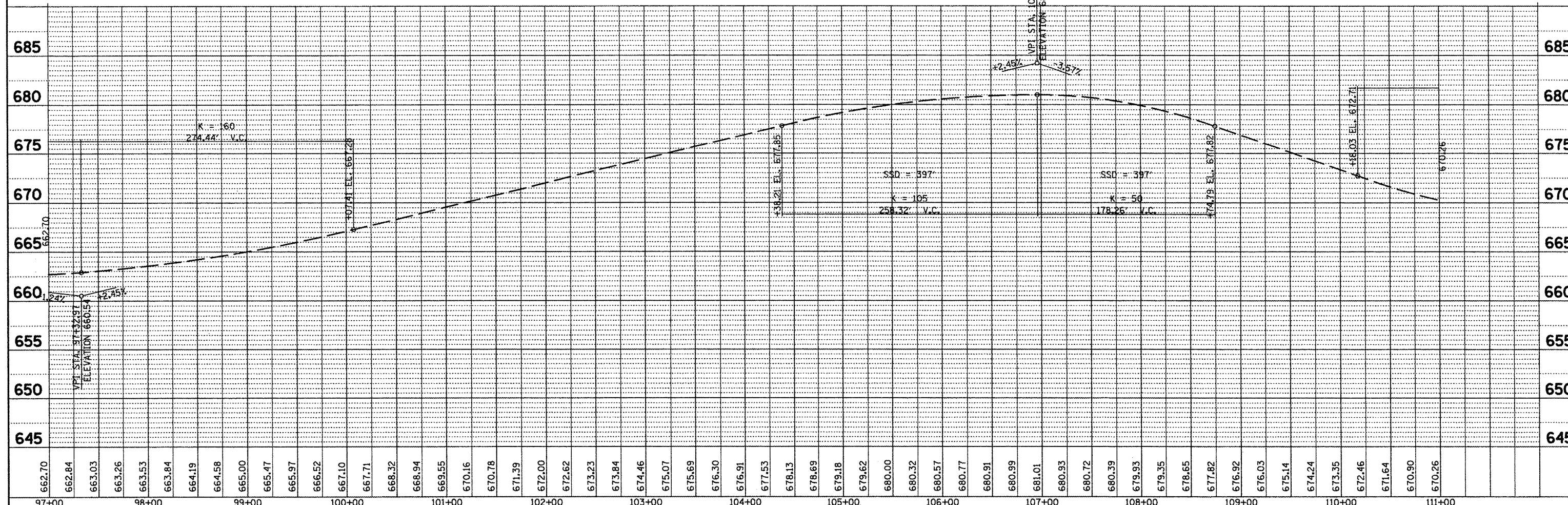
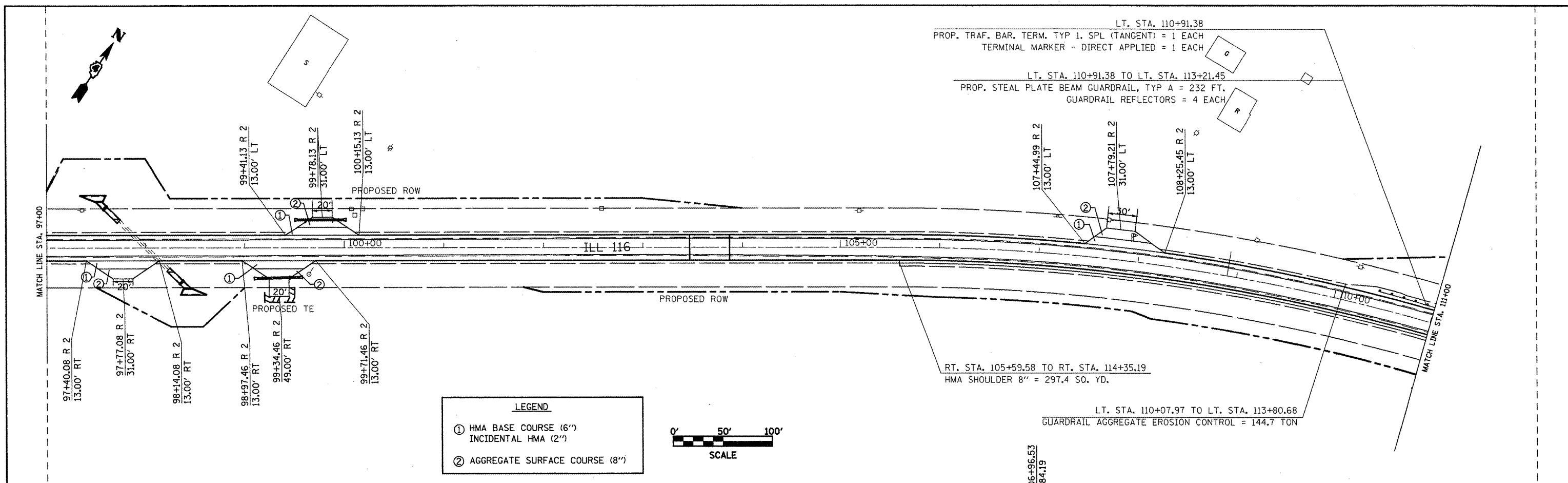
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②	AGGREGATE SURFACE COURSE (8")



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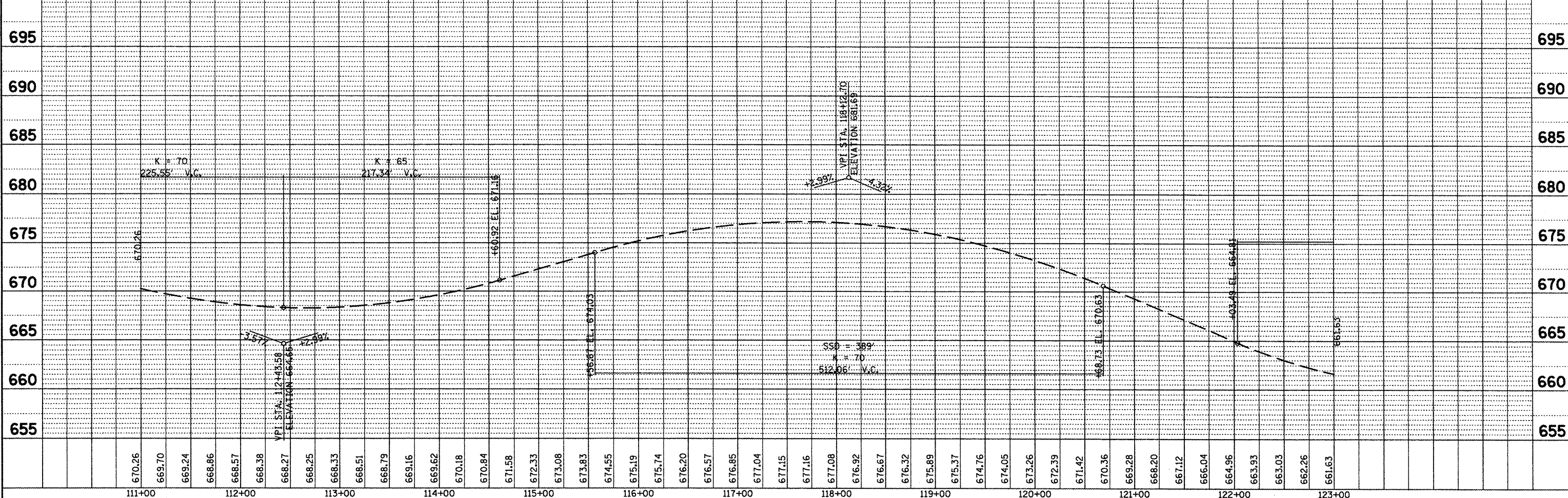
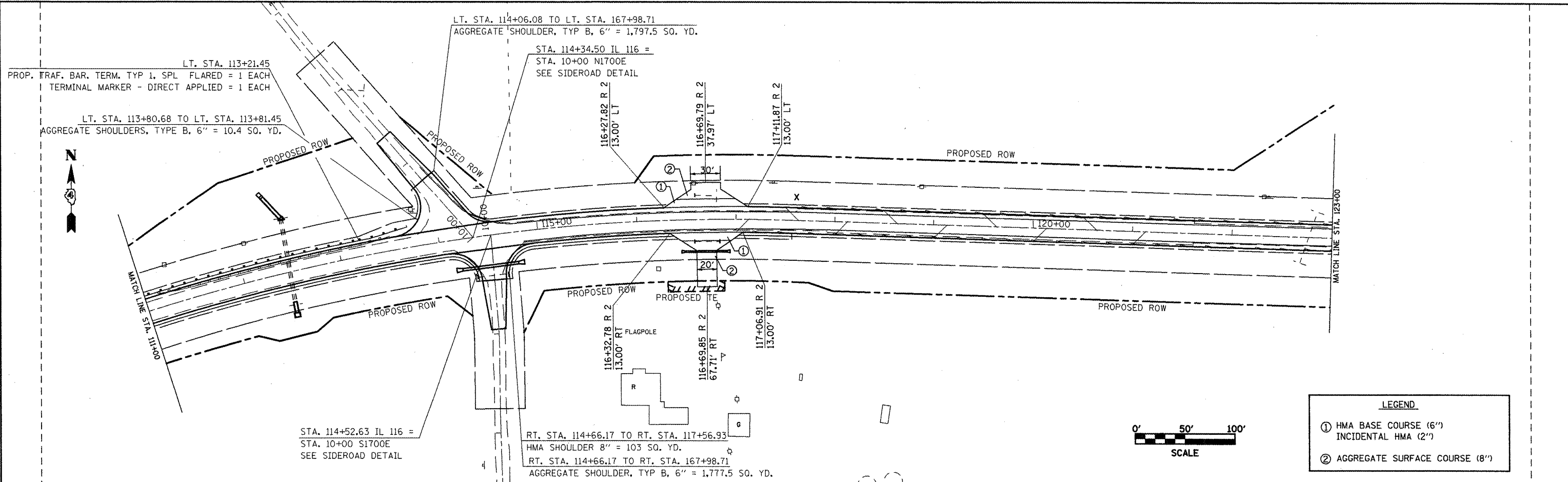
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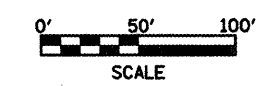
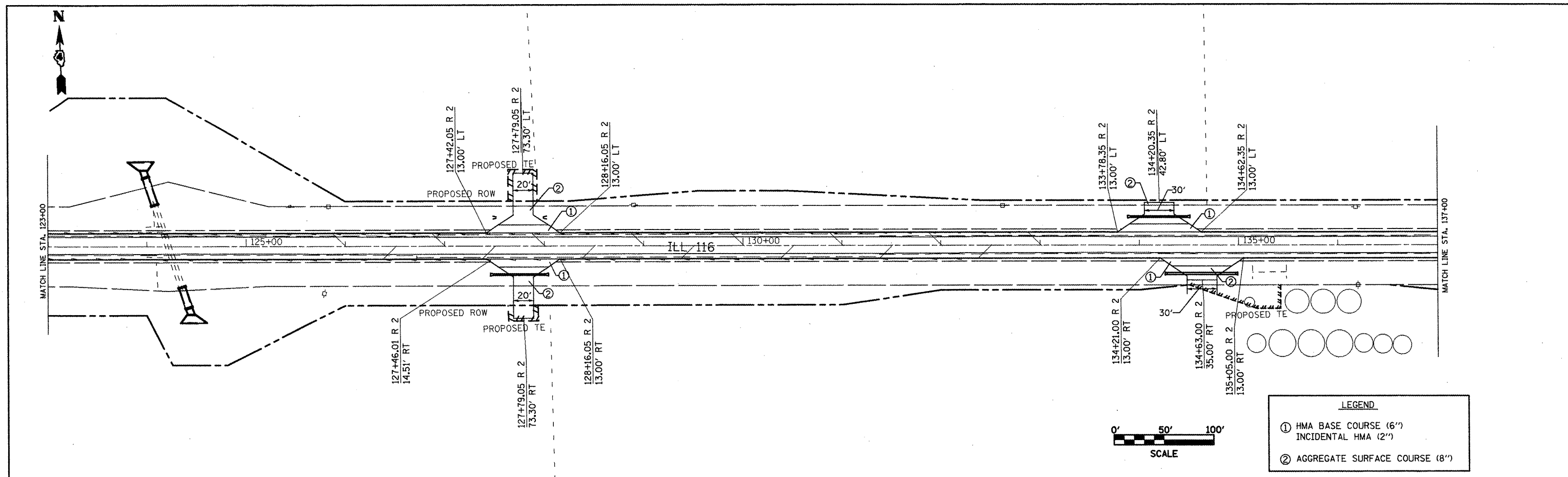
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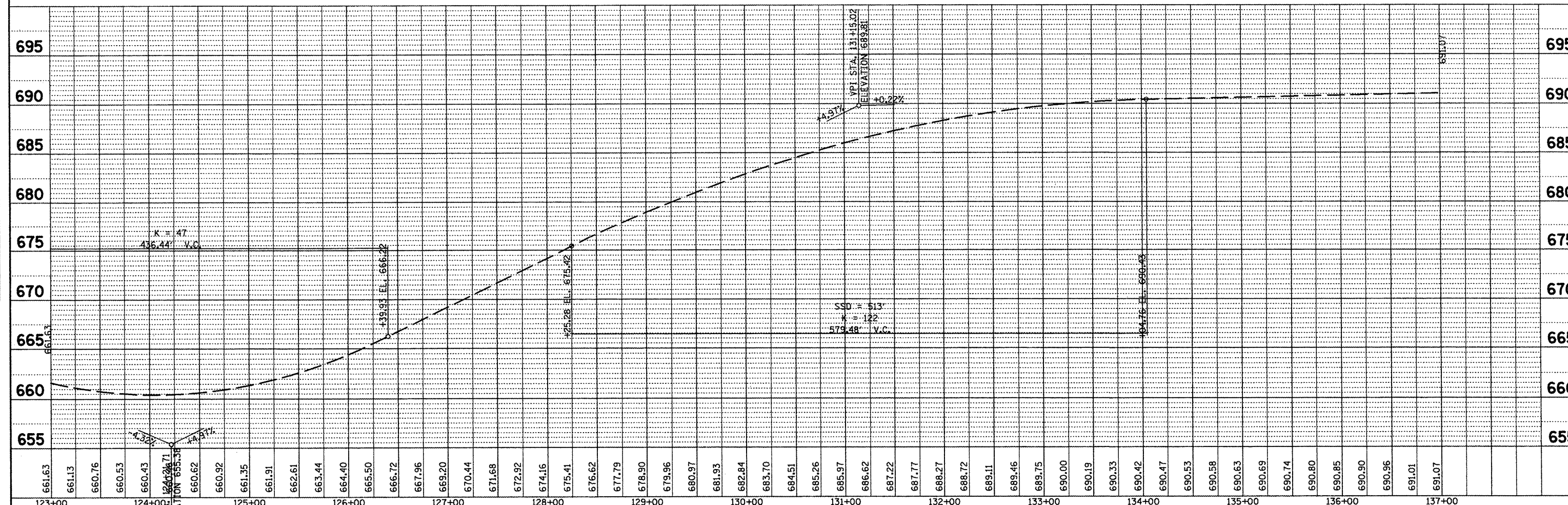
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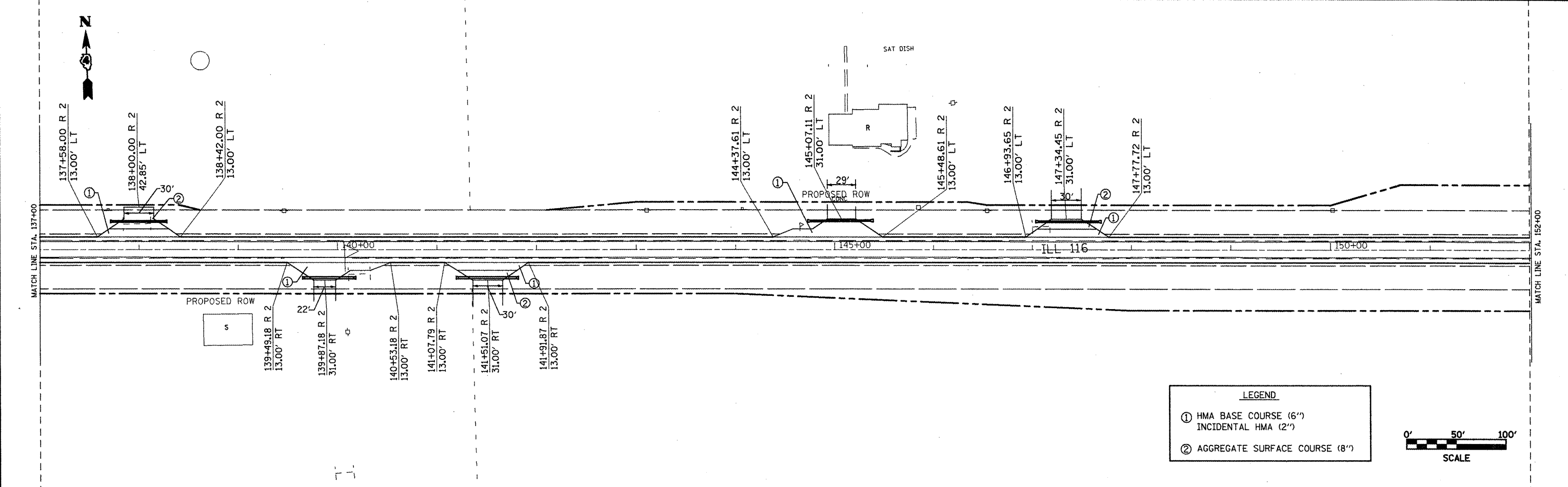
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INCIDENTAL HMA (2")
- ② AGGREGATE SURFACE COURSE (8")



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										ILLINOIS FED. AID PROJECT	

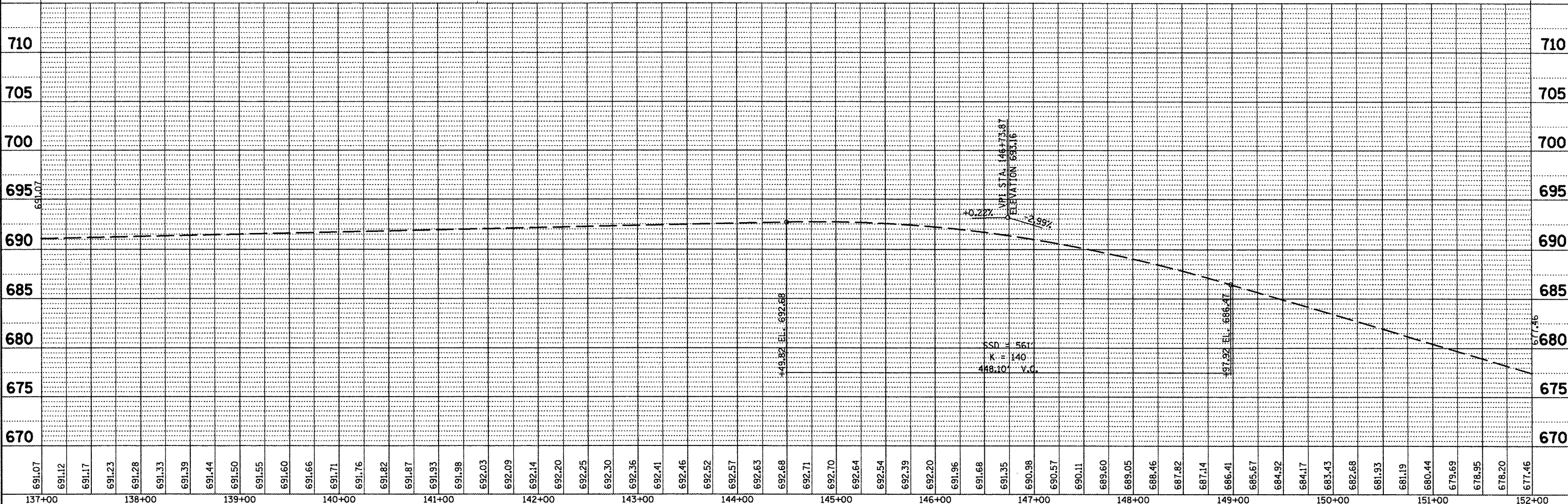
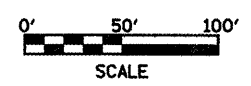
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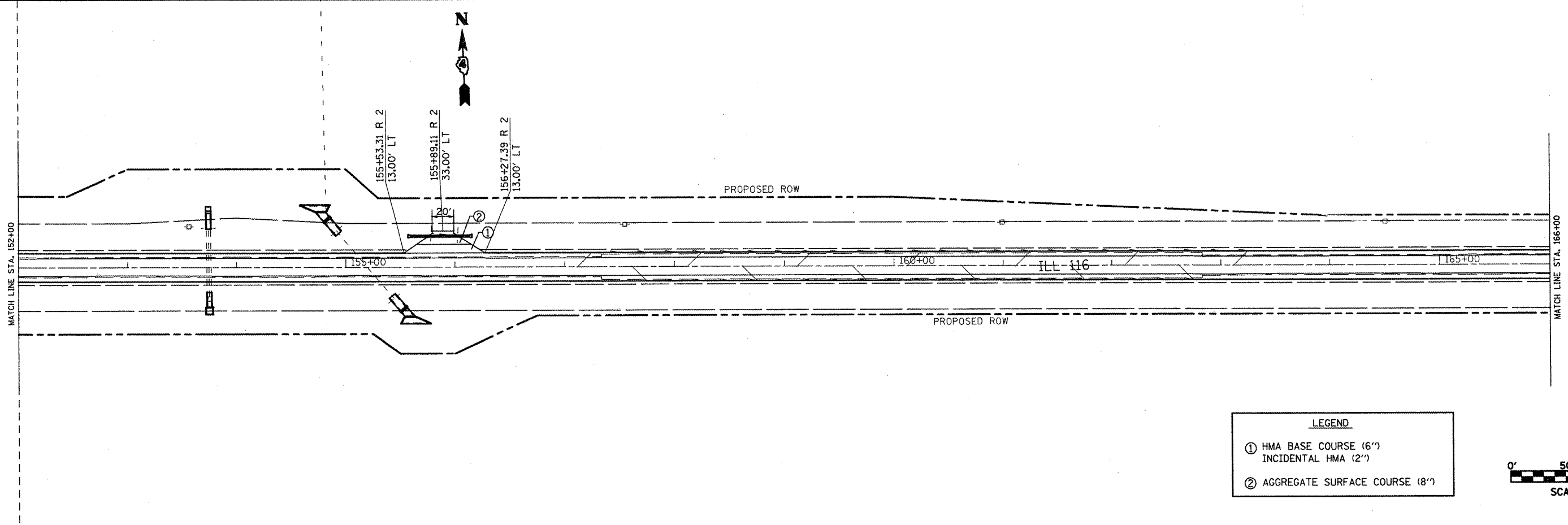
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INCIDENTAL HMA (2'')
- ② AGGREGATE SURFACE COURSE (8'')



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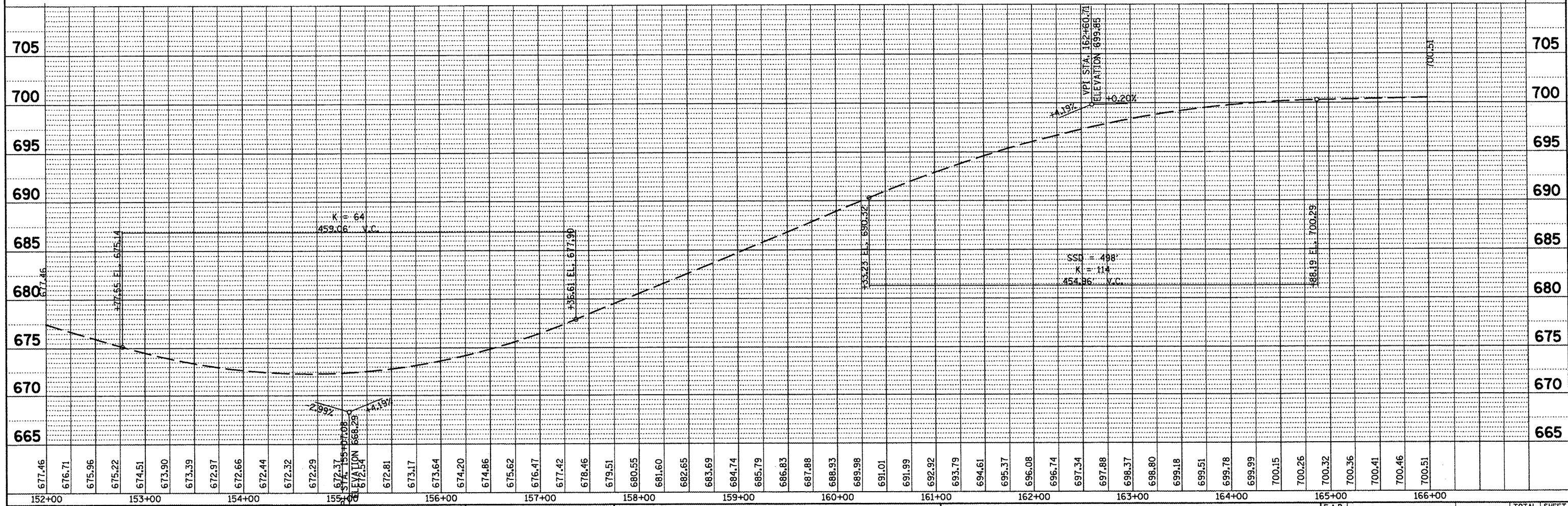
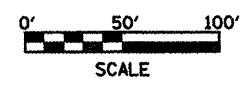
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	NO.	

PROFILE	DESIGNED	DATE
	DRAWN	
	CHECKED	
	BY	
	NO.	



LEGEND

- ① HMA BASE COURSE (6")
INCIDENTAL HMA (2")
- ② AGGREGATE SURFACE COURSE (8")



FILE NAME = miscsheets.dgn	USER NAME = ghidneam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN/PROFILE - IL 116		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -								176
		CHECKED -	REVISED -				CONTRACT NO. 88773				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
PLOT SCALE = 100.0000' / IN.		PLOT DATE = 2/27/2009		SCALE:		SHEET NO. OF SHEETS		STA. TO STA.		FED. ROAD DIST. NO.	

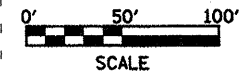
PLAN	BY	DATE
DESIGNED		
DRAWN		
CHECKED		
DATE		

PROFILE	BY	DATE
DESIGNED		
DRAWN		
CHECKED		
DATE		

NOTES

PAVEMENT WIDENING AND SURFACE WILL CONTINUE THRU SIDEROADS AND ENTRANCES

DUE TO THE CLOSE PROXIMITY OF CULVERTS TO THE PAVEMENT, CAUTION SHALL BE TAKEN TO NOT DAMAGE THE CULVERT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE CULVERTS.



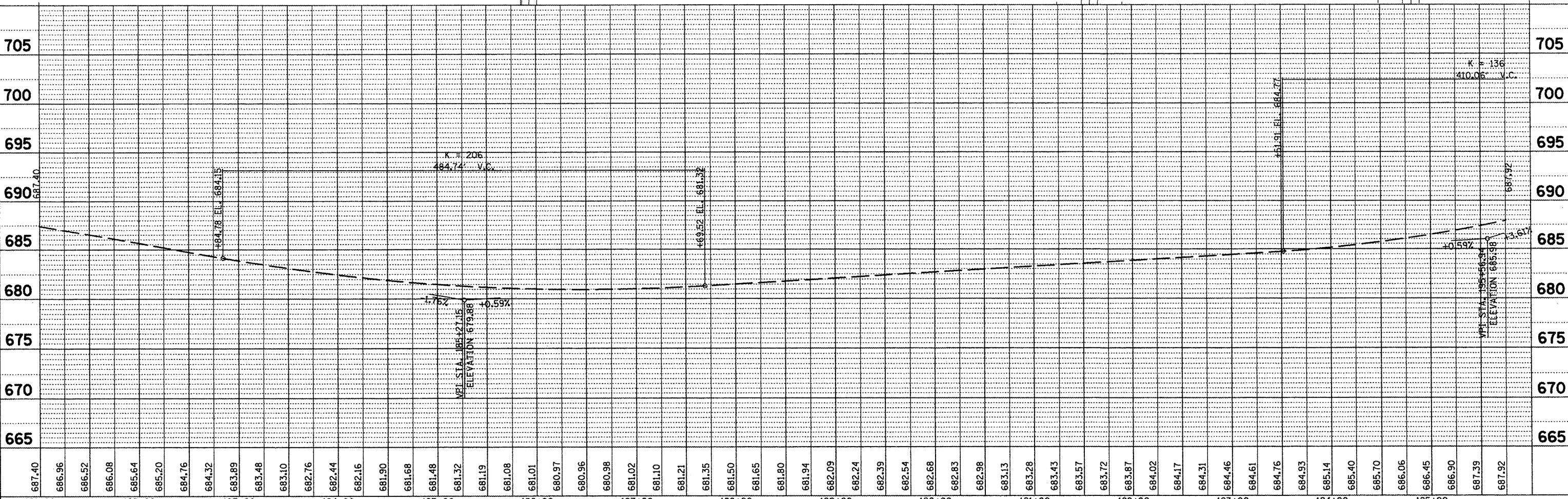
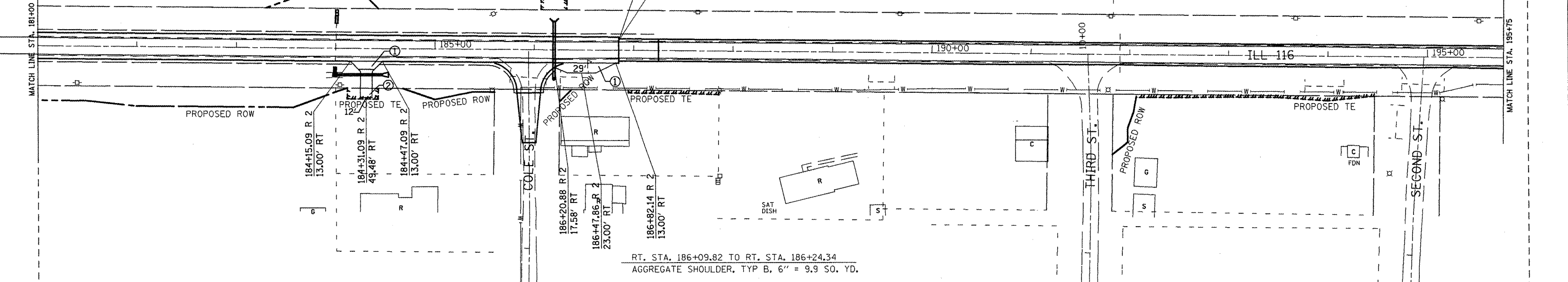
LEGEND

- ① HMA BASE COURSE (6")
INCIDENTAL HMA (2")
- ② AGGREGATE SURFACE COURSE (8")

STA. 186+85 TO 211+67
SUB-BASE GRAN. MAT'L. TYP B, 6" = 1,991 SO. YD.
GEOTECH. FABRIC. FOR GRND. STAB. = 1,991 SO. YD.

STA. 186+85 TO 211+67
HMA BASE COURSE WIDENING, 9" = 1599.5 SO. YD.
HMA SURFACE COURSE, MIX "D" N50 (1 1/2) = 518.8 TON

RT. STA. 186+09.82 TO RT. STA. 186+24.34
AGGREGATE SHOULDER, TYP B, 6" = 9.9 SO. YD.



FILE NAME = miscsheets.dgn	USER NAME = ghidnaem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN/PROFILE - IL 116				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/2" = 100'	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	170
	PLOT DATE = 2/27/2009	CHECKED -	REVISED -		CONTRACT NO. 88773								
		DATE -	REVISED -										

PLAN SURVEYED BY DATE
 ALIGNED CHECKED
 RT. OF WAY CHECKED
 NO. AND FILE NAME

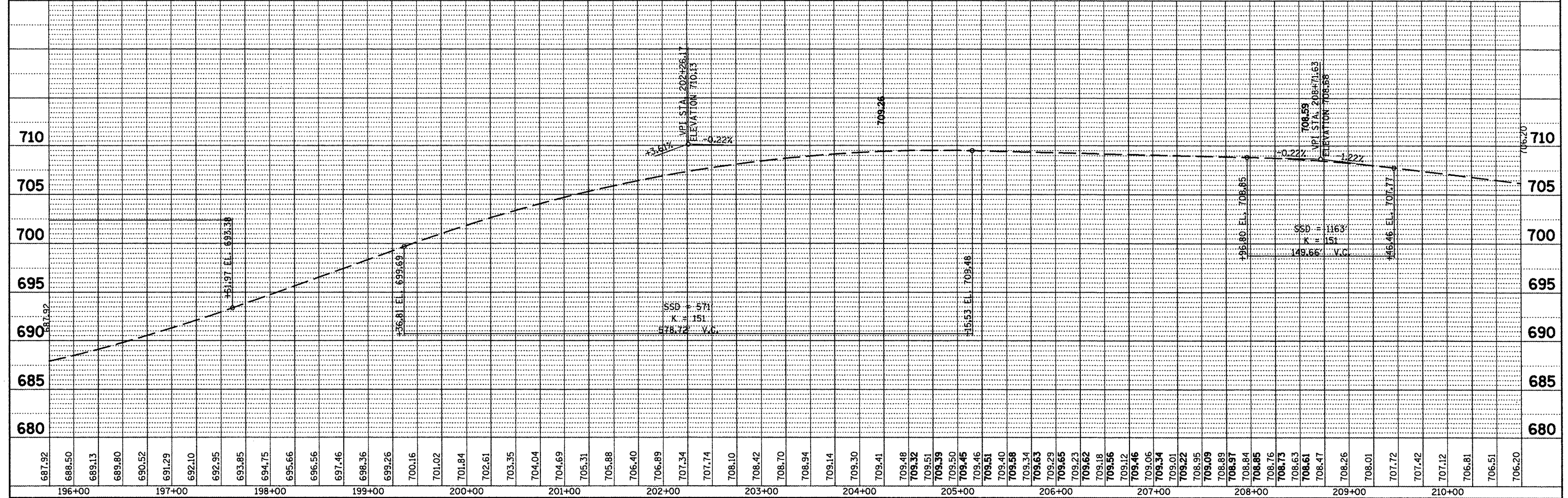
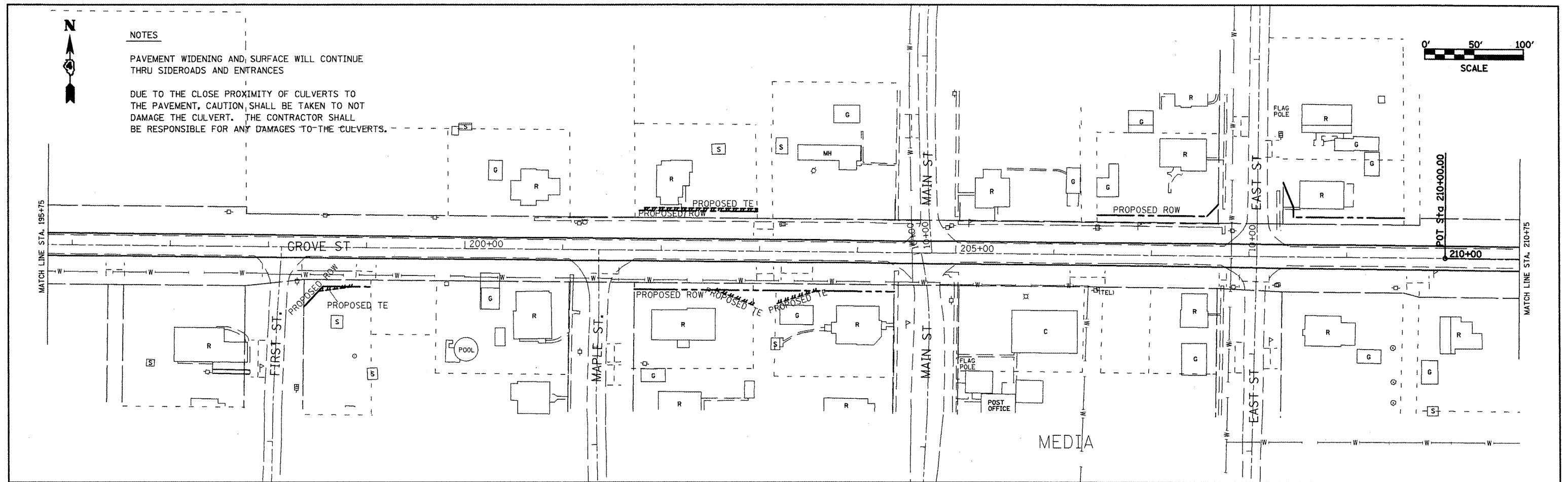
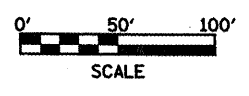
PROFILE SURVEYED BY DATE
 GRADES CHECKED
 B.M. NOTED
 NO. STRUCTURE NOTATION CHFD



NOTES

PAVEMENT WIDENING AND SURFACE WILL CONTINUE THRU SIDEROADS AND ENTRANCES

DUE TO THE CLOSE PROXIMITY OF CULVERTS TO THE PAVEMENT, CAUTION SHALL BE TAKEN TO NOT DAMAGE THE CULVERT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE CULVERTS.



FILE NAME = miscsheets.dgn	USER NAME = ghdineam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN/PROFILE - IL 116				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 88773		
		CHECKED -	REVISED -								ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -										

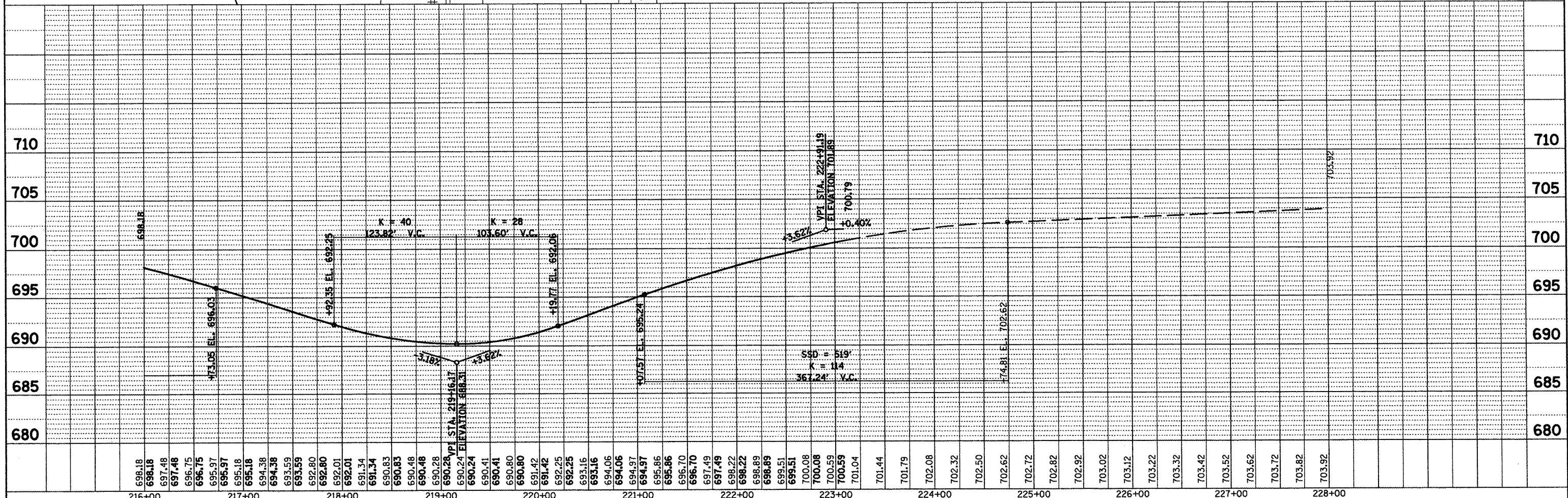
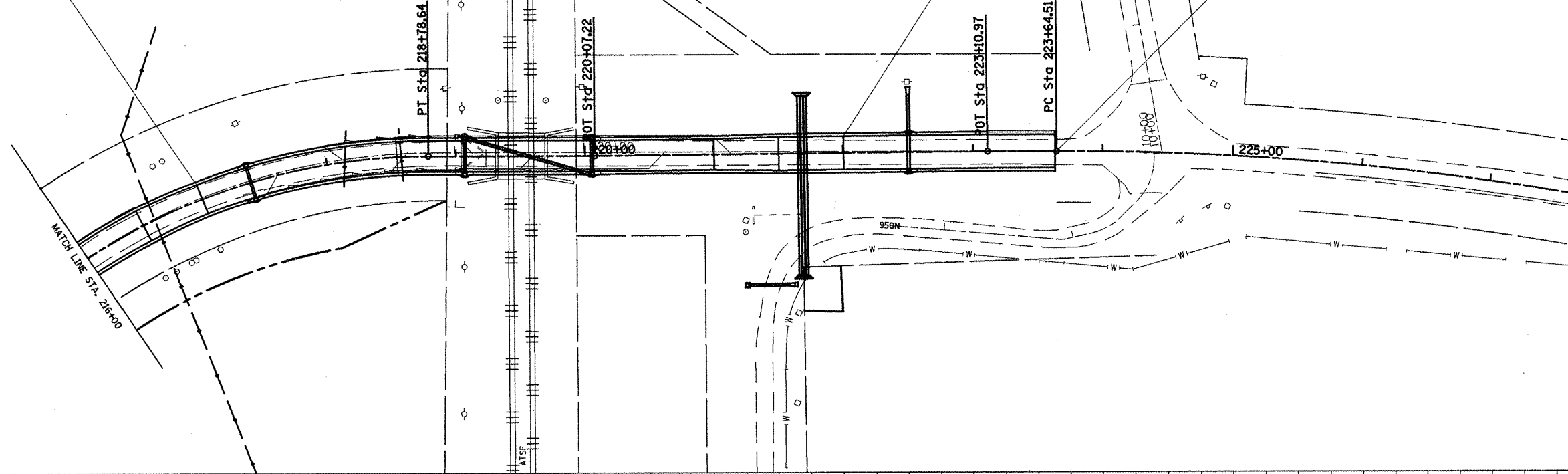
PLAN	DATE
BY	
DESIGNED	
CHECKED	
DATE	
NO.	

PROFILE	DATE
BY	
DESIGNED	
CHECKED	
DATE	
NO.	

STA. 217+00 TO STA. 222+00
 PCC BASE CSE, 7" = 1,333.3 SQ YD
 PAVEMENT FABRIC = 1,333.3 SQ. YD.
 SUB-BASE GRAN. MAT'L, TYP A, 12" = 213 SQ. YD.
 GEOTECH. FAB. FOR GRND. STAB. = 213 SQ. YD.

STA. 222+00 TO STA. 223+63.16
 PCC BASE CSE WIDENING 7" = 161.8 SQ YD
 SUB-BASE GRAN. MAT'L, TYP B, 12" = 269 SQ. YD.
 GEOTECH. FAB. FOR GRND. STAB. = 269 SQ YD

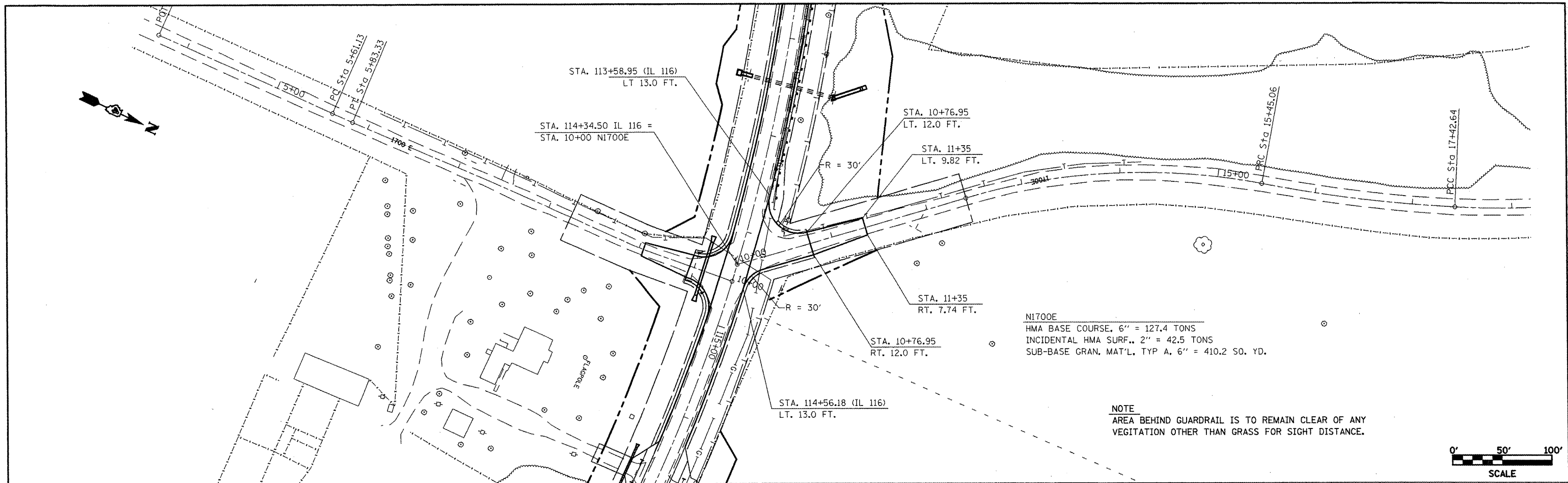
STA. 223+63.16
 END PROJECT LIMITS



FILE NAME = mscsheets.dgn	USER NAME = ghidnsm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PLAN/PROFILE - IL 116				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 88773		
		CHECKED -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -										

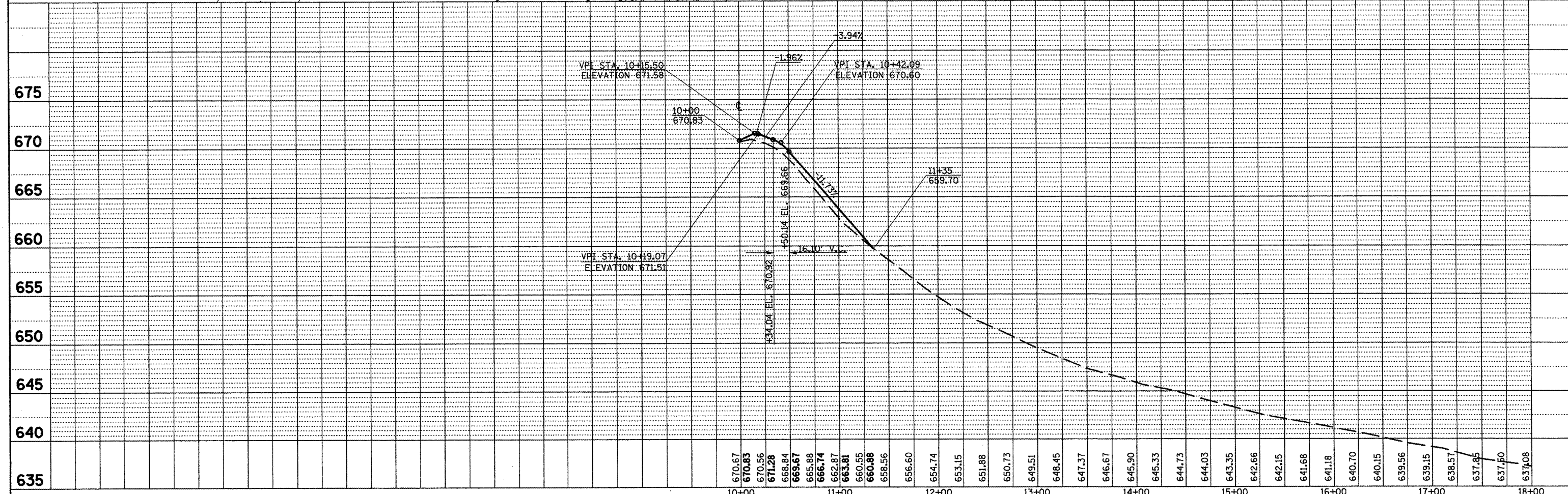
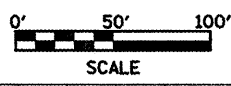
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	ADD FILE NAME	
	NO.	

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



NI700E
HMA BASE COURSE, 6" = 127.4 TONS
INCIDENTAL HMA SURF., 2" = 42.5 TONS
SUB-BASE GRAN. MAT'L, TYP A, 6" = 410.2 SO. YD.

NOTE
AREA BEHIND GUARDRAIL IS TO REMAIN CLEAR OF ANY
VEGETATION OTHER THAN GRASS FOR SIGHT DISTANCE.



FILE NAME = slderdsht.dgn	USER NAME = ghidnaem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	1700 E PLAN & PROFILE SHEET 1 OF 2				F.A.P. RTE. 665	SECTION 0136.137W&RS-3(136R)098R-2	COUNTY HENDERSON	TOTAL SHEETS 107	SHEET NO. 107
	PLLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 88773		
	PLLOT DATE = 2/17/2009	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										

PLAN	SURVEYED	DATE
	ALIGNED	BY
	CHECKED	
	RT. OF WAY	
	NO.	

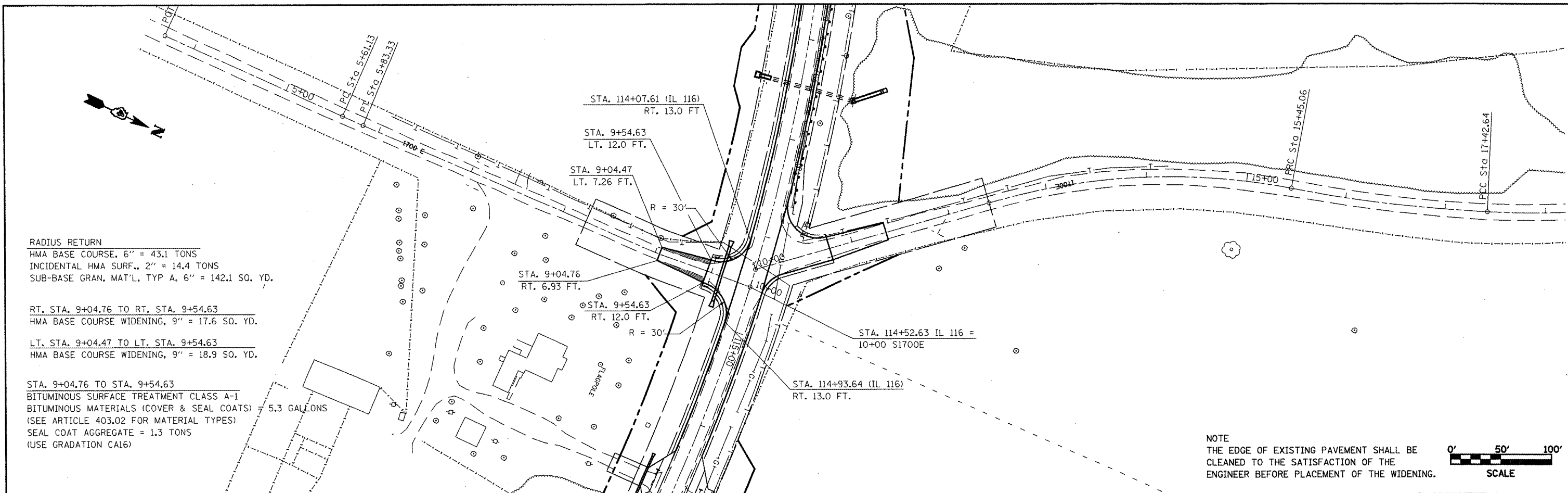
RADIUS RETURN
HMA BASE COURSE, 6" = 43.1 TONS
INCIDENTAL HMA SURF., 2" = 14.4 TONS
SUB-BASE GRAN. MAT'L, TYP A, 6" = 142.1 SO. YD.

RT. STA. 9+04.76 TO RT. STA. 9+54.63
HMA BASE COURSE WIDENING, 9" = 17.6 SO. YD.

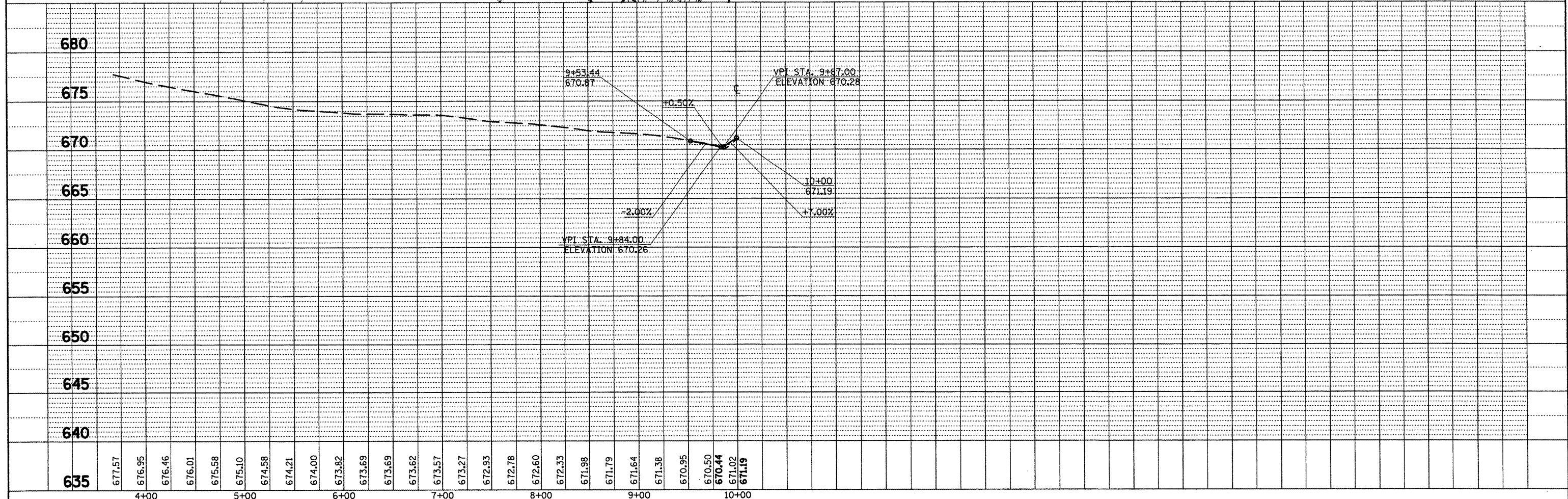
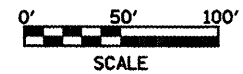
LT. STA. 9+04.47 TO LT. STA. 9+54.63
HMA BASE COURSE WIDENING, 9" = 18.9 SO. YD.

STA. 9+04.76 TO STA. 9+54.63
BITUMINOUS SURFACE TREATMENT CLASS A-1
BITUMINOUS MATERIALS (COVER & SEAL COATS) = 5.3 GALLONS
(SEE ARTICLE 403.02 FOR MATERIAL TYPES)
SEAL COAT AGGREGATE = 1.3 TONS
(USE GRADATION CA16)

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RAW	
	NOTATION	
	NO.	



NOTE
THE EDGE OF EXISTING PAVEMENT SHALL BE
CLEANED TO THE SATISFACTION OF THE
ENGINEER BEFORE PLACEMENT OF THE WIDENING.



FILE NAME = slderdsht.dgn	USER NAME = ghidraam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	1700E PLAN & PROFILE SHEET 2 OF 2					F.A.P. RTE. 665	SECTION 136.1377WARS-3(136R)1098R-2	COUNTY HENDERSON	TOTAL SHEETS 183	SHEET NO. 183
	PLDT SCALE = 100.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 88773			
	PLDT DATE = 2/17/2009	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT									
		DATE	REVISED -											

RADIUS RETURN
 HMA BASE COURSE, 6" = 41.6 TONS
 INCIDENTAL HMA SURF., 2" = 13.9 TONS
 SUB-BASE GRAN. MAT'L, TYP A, 6" = 137 SO. YD.

LT. STA. 9+06.70 TO LT. STA. 9+56.62
 HMA BASE COURSE WIDENING, 9" = 17.5 SO. YD.

RT. STA. 9+06.55 TO RT. STA. 9+56.62
 HMA BASE COURSE WIDENING, 9" = 16.6 SO. YD.

STA. 9+06.70 TO STA. 9+56.62
 BITUMINOUS SURFACE TREATMENT CLASS A-1
 BITUMINOUS MATERIALS (COVER & SEAL COATS) = 5.7 GALLONS
 (SEE ARTICLE 403.02 FOR MATERIAL TYPES)
 SEAL COAT AGGREGATE = 1.4 TONS
 (USE GRADATION CA 16)

NOTE
 THE EDGE OF EXISTING PAVEMENT SHALL BE
 CLEANED TO THE SATISFACTION OF THE
 ENGINEER BEFORE PLACEMENT OF THE WIDENING.

STA. 168+13.42 IL 116 =
 10+00 S1800E

STA. 168+15.79 IL 116 =
 10+00 N1800E

STA. 167+71.71 (IL 116)
 RT. 13.0 FT.

STA. 167+71.87
 LT. 13.0 FT.

STA. 9+56.62
 LT. 12.0 FT.

STA. 10+44.87
 LT. 12.0 FT.

STA. 9+06.70
 LT. 8.43 FT.

STA. 11+24.74
 LT. 5.23 FT.

STA. 9+06.55
 RT. 8.25 FT.

STA. 11+25.09
 RT. 6.43 FT.

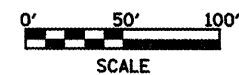
STA. 9+56.62
 RT. 12.0 FT.

STA. 10+44.87
 RT. 12.22 FT.

STA. 168+55.72 (IL 116)
 RT. 13.0 FT.

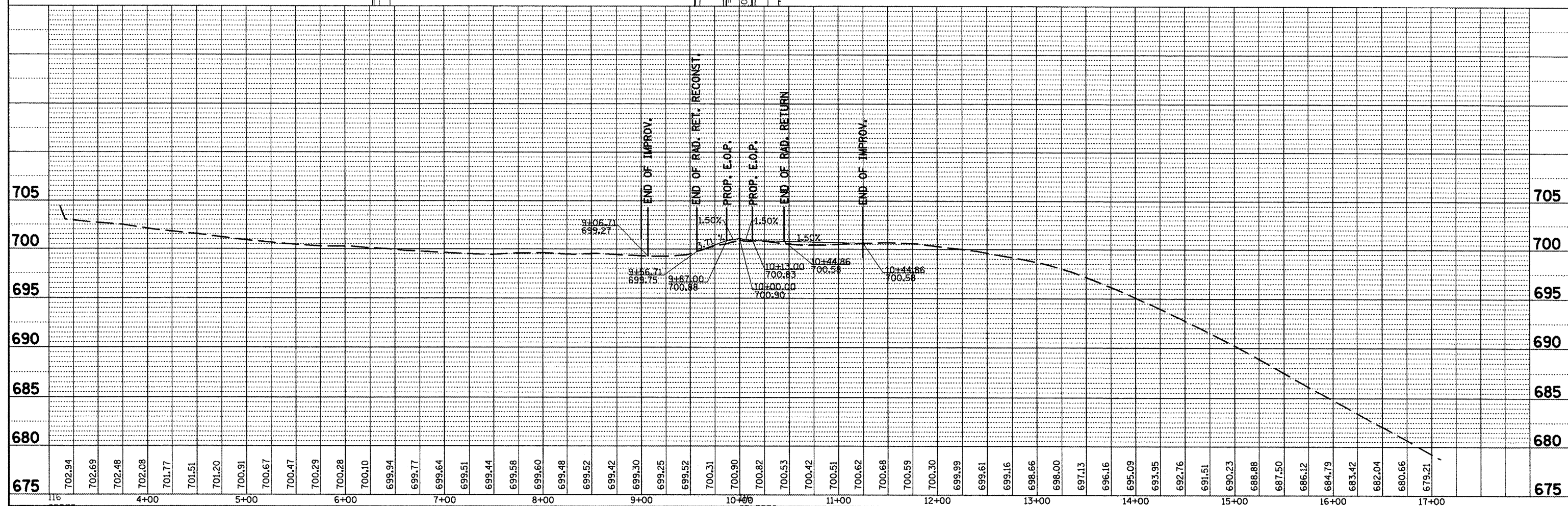
STA. 168+55.95 (IL 116)
 LT. 13.0 FT.

N1800E
 HMA BASE COURSE, 6" = 96.6 TONS
 INCIDENTAL HMA SURF., 2" = 32.2 TONS
 SUB-BASE GRAN. MAT'L, TYP A, 6" = 317.7 SO. YD.



DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
NO.	
ROAD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES	
CHECKED	
B.M. NOTED	
STRUCTURE	
NOTATION	
CHFD	
NO.	



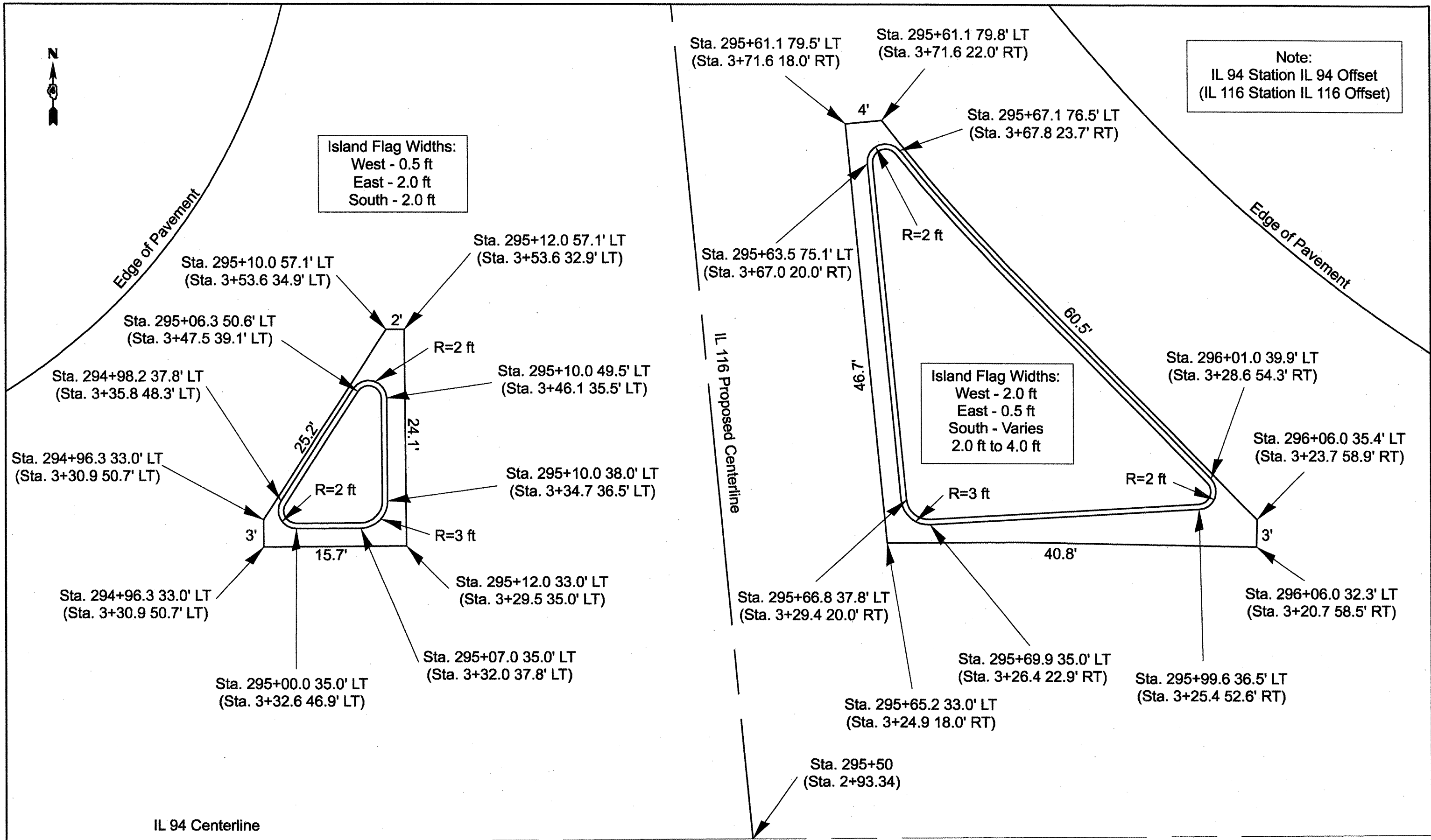
FILE NAME: 3RR13 300.000000 siderdahtg	USER NAME: ghidneam	DESIGNED: -	REVISED: -	SCALE: 1/8" = 100'	SHEET NO. OF SHEETS: 184	STA. TO STA.
675	PLOT SCALE: 1/80.0000" / IN.	DRAWN: -	REVISED: -	1800E PLAN & PROFILE		
50	PLOT DATE: 2/17/2009	CHECKED: -	REVISED: -	SECTION: 665 (136.137)W&RS-3d136Rd109BR-2		
5		DATE: -	REVISED: -	COUNTY: HENDERSON		
				CONTRACT NO. 88773		
				TOTAL SHEETS: 184		
				SHEET NO. 184		
				ILLINOIS FED. AID PROJECT		



Note:
IL 94 Station IL 94 Offset
(IL 116 Station IL 116 Offset)

Island Flag Widths:
West - 0.5 ft
East - 2.0 ft
South - 2.0 ft

Island Flag Widths:
West - 2.0 ft
East - 0.5 ft
South - Varies
2.0 ft to 4.0 ft

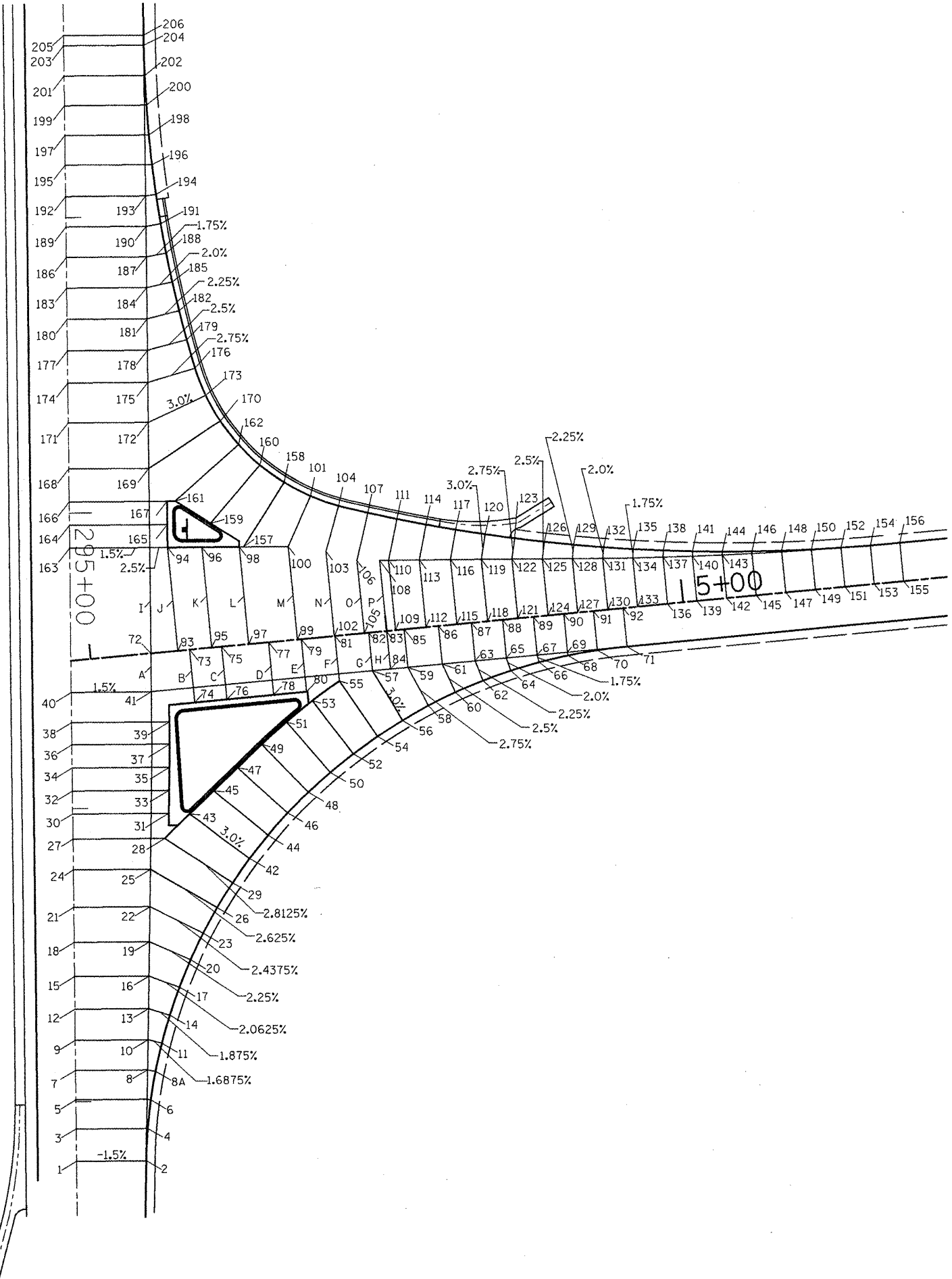


FILE NAME = staging.dgn	USER NAME = hudeisonm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

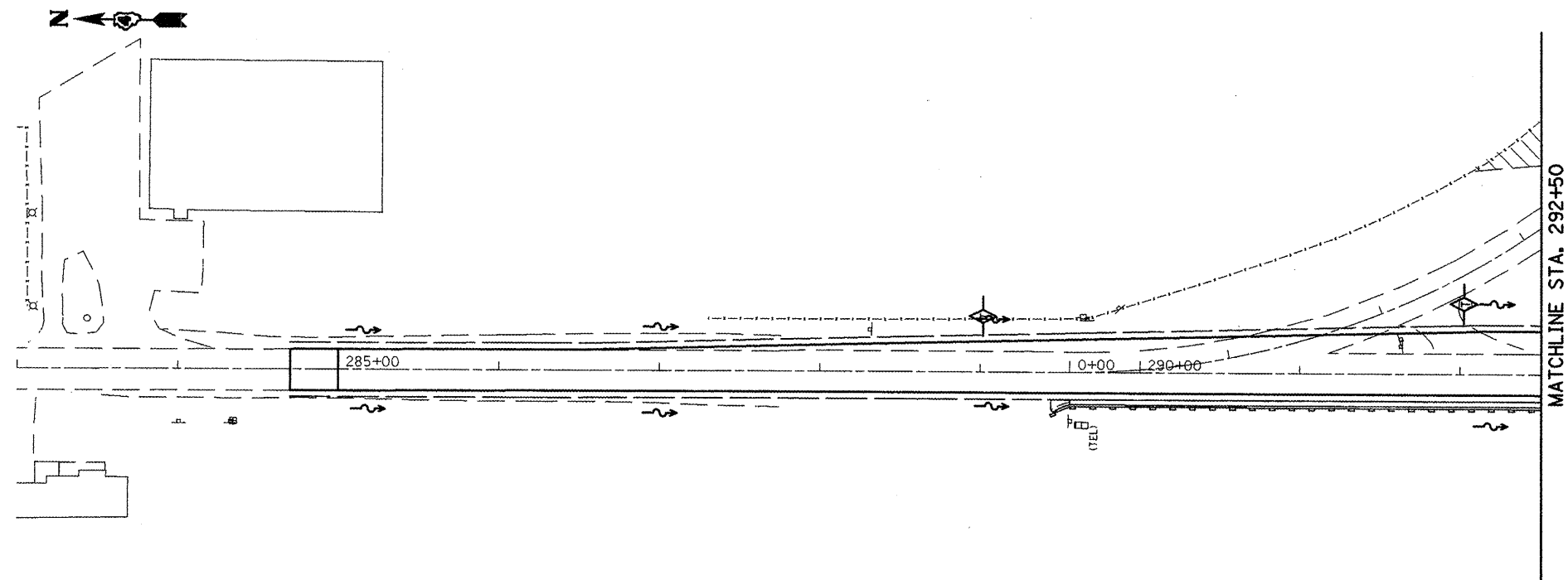
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ISLANDS DETAIL
IL 94 / IL 116 INTERSECTION

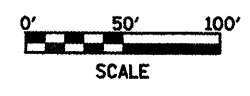
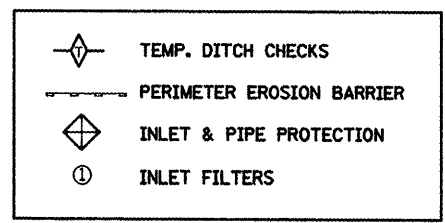
F.A.P. RTE. 665	SECTION *	COUNTY HENDERSON	TOTAL SHEETS 187	SHEET NO. 187
CONTRACT NO. 88773			ILLINOIS FED. AID PROJECT	



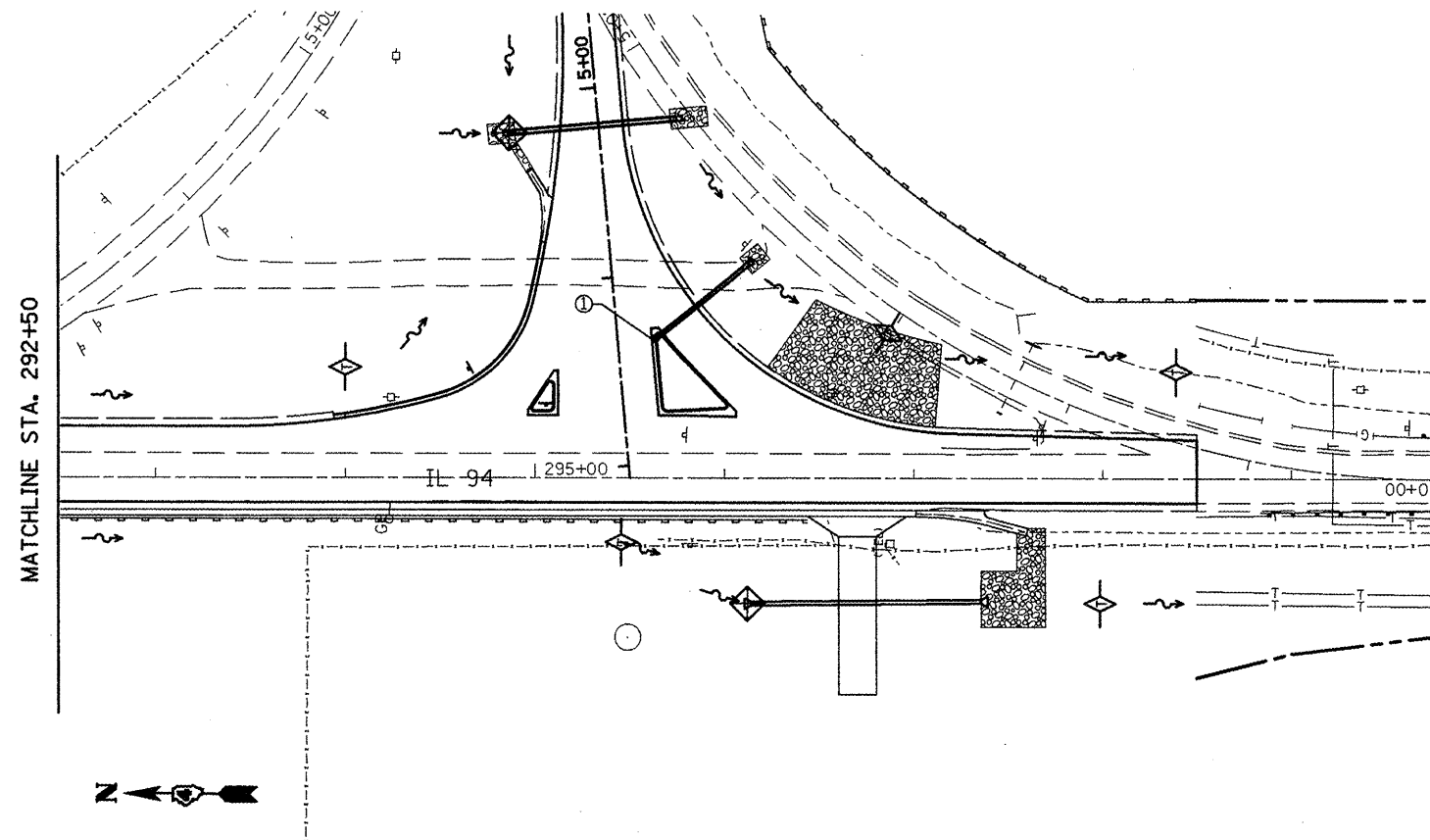
POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION
1	IL 94	STA 297+20.80	0.00	815.70	25	IL 94	STA 298+20.74	LT. 25.98'	817.38	50	IL 116	STA 3+76.54	RT. 45.75'	817.04
2	IL 94	STA 297+20.80	LT. 23.48'	815.35	26	IL 94	STA 298+33.95	LT. 48.33'	816.70	51	IL 116	STA 3+83.57	RT. 27.36'	817.72
3	IL 94	STA 297+09.49	0.00	815.92	27	IL 94	STA 298+10.27	0.00	818.00	52	IL 116	STA 3+84.87	RT. 40.21'	817.22
4	IL 94	STA 297+09.49	LT. 24.11'	815.56	28	IL 94	STA 298+10.27	LT. 30.82'	817.54	53	IL 116	STA 3+72.84	RT. 21.13'	817.89
5	IL 94	STA 296+99.38	0.00	816.11	29	IL 94	STA 298+25.49	LT. 53.66'	816.77	54	IL 116	STA 3+84.87	RT. 40.21'	817.17
6	IL 94	STA 296+99.38	LT. 25.25'	815.73	30	IL 94	STA 298+01.89	0	818.19	55	IL 116	STA 3+82.85	RT. 15.44'	817.84
7	IL 94	STA 296+99.17	0.00	816.32	31	IL 94	STA 298+01.89	LT. 32.43'	817.70	56	IL 116	STA 3+83.49	RT. 35.15'	817.15
8	IL 94	STA 296+89.17	LT. 24.27'	815.96	32	IL 94	STA 295+93.94	0	818.38	57	IL 116	STA 3+83.96	RT. 13.00'	817.73
8A	IL 94	STA 296+89.71	LT. 26.95'	815.92	33	IL 94	STA 295+93.94	LT. 32.82'	817.89	58	IL 116	STA 4+11.52	RT. 26.51'	817.18
9	IL 94	STA 296+78.75	0.00	816.53	34	IL 94	STA 295+88.09	0	818.56	59	IL 116	STA 4+05.95	RT. 13.00'	817.58
10	IL 94	STA 296+78.75	LT. 24.53'	816.16	35	IL 94	STA 295+88.09	LT. 32.82'	818.07	60	IL 116	STA 4+20.93	RT. 22.94'	817.20
11	IL 94	STA 296+79.96	LT. 29.20'	816.08	36	IL 94	STA 295+78.28	0	818.75	61	IL 116	STA 4+17.47	RT. 13.00'	817.46
12	IL 94	STA 296+68.06	0.00	816.75	37	IL 94	STA 295+78.28	LT. 32.97'	818.26	62	IL 116	STA 4+30.48	RT. 19.91'	817.20
13	IL 94	STA 296+68.06	LT. 24.80'	816.38	38	IL 94	STA 295+70.76	0	818.93	63	IL 116	STA 4+28.51	RT. 13.00'	817.36
14	IL 94	STA 296+70.38	LT. 31.98'	816.24	39	IL 94	STA 295+70.76	LT. 32.97'	818.44	64	IL 116	STA 4+40.08	RT. 17.45'	817.19
15	IL 94	STA 296+57.01	0.00	816.88	40	IL 94	STA 295+60.77	0	819.17	65	IL 116	STA 4+39.07	RT. 13.00'	817.28
16	IL 94	STA 296+57.01	LT. 25.08'	816.60	41	IL 94	STA 295+60.77	LT. 27.00'	818.77	66	IL 116	STA 4+49.89	RT. 15.51'	817.18
17	IL 94	STA 296+60.93	LT. 35.30'	816.37	42	IL 94	STA 296+17.33	LT. 59.45'	816.80	67	IL 116	STA 4+49.46	RT. 13.00'	817.22
18	IL 94	STA 296+45.51	0.00	817.22	43	IL 116	STA 3+46.70	RT. 72.26'	817.55	68	IL 116	STA 4+59.79	RT. 14.12'	817.16
19	IL 94	STA 296+45.51	LT. 25.36'	816.84	44	IL 116	STA 3+27.99	RT. 55.42'	816.86	69	IL 116	STA 4+59.66	RT. 13.00'	817.18
20	IL 94	STA 296+51.70	LT. 39.14'	816.50	45	IL 116	STA 3+53.59	RT. 65.01'	817.57	70	IL 116	STA 4+89.75	RT. 13.28'	817.15
21	IL 94	STA 296+33.48	0.00	817.49	46	IL 116	STA 3+60.88	RT. 58.17'	816.92	71	IL 116	STA 4+79.75	RT. 13.00'	817.14
22	IL 94	STA 296+33.48	LT. 25.89'	817.11	47	IL 116	STA 3+45.77	RT. 41.18'	817.80	72	IL 116	STA 3+20.44	0	819.02
23	IL 94	STA 296+42.89	LT. 43.49'	816.62	48	IL 116	STA 3+68.53	RT. 51.74'	816.98	73	IL 116	STA 3+33.49	0	818.83
24	IL 94	STA 296+20.74	0.00	817.77	49	IL 116	STA 3+54.56	RT. 34.11'	817.66	74	IL 116	STA 3+33.49	RT. 18.00'	818.50
POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION
75	IL 116	STA 3+44.45	0	818.66	100	IL 116	STA 3+88.68	LT. 31.44'	818.38	125	IL 116	STA 4+54.35	LT. 19.01'	817.11
76	IL 116	STA 3+44.45	RT. 18.00'	818.34	101	IL 116	STA 3+79.15	LT. 47.89'	817.81	126	IL 116	STA 4+55.57	LT. 24.85'	816.96
77	IL 116	STA 3+60.19	0	818.43	102	IL 116	STA 3+82.41	0	818.06	127	IL 116	STA 4+64.47	0	817.35
78	IL 116	STA 3+80.19	RT. 18.00'	818.12	103	IL 116	STA 3+82.41	LT. 28.58'	817.97	128	IL 116	STA 4+64.47	LT. 18.13'	817.08
79	IL 116	STA 3+71.30	0	818.28	104	IL 116	STA 3+88.20	LT. 43.85'	817.49	129	IL 116	STA 4+65.38	LT. 22.87'	816.97
80	IL 116	STA 3+71.30	RT. 18.00'	817.96	105	IL 116	STA 3+82.42	0	817.95	130	IL 116	STA 4+74.55	0	817.34
81	IL 116	STA 3+82.85	0	818.09	106	IL 116	STA 3+82.42	LT. 24.46'	816.70	131	IL 116	STA 4+74.55	LT. 17.25'	817.08
82	IL 116	STA 3+83.96	0	817.93	107	IL 116	STA 3+97.66	LT. 40.41'	817.20	132	IL 116	STA 4+75.21	LT. 21.08'	817.00
83	IL 116	STA 4+00	0	817.85	108	IL 116	STA 4+00	LT. 23.77'	817.49	133	IL 116	STA 4+84.81	0	817.33
84	IL 116	STA 4+00	RT. 13.00'	817.66	109	IL 116	STA 4+02.92	0	817.82	134	IL 116	STA 4+84.81	LT. 16.44'	817.08
85	IL 116	STA 4+05.95	0	817.78	110	IL 116	STA 4+02.92	LT. 23.51'	817.47	135	IL 116	STA 4+85.08	LT. 19.48'	817.03
86	IL 116	STA 4+17.47	0	817.66	111	IL 116	STA 4+07.19	LT. 37.38'	817.04	136	IL 116	STA 4+84.81	0	817.34
87	IL 116	STA 4+28.51	0	817.56	112	IL 116	STA 4+13.34	0	817.70	137	IL 116	STA 4+84.81	LT. 15.71'	817.10
88	IL 116	STA 4+39.07	0	817.48	113	IL 116	STA 4+13.34	LT. 22.80'	817.36	138	IL 116	STA 4+84.81	LT. 18.02'	817.07
89	IL 116	STA 4+49.46	0	817.42	114	IL 116	STA 4+16.77	LT. 34.52'	816.99	139	IL 116	STA 5+04.70	0	817.36
90	IL 116	STA 4+59.66	0	817.38	115	IL 116	STA 4+23.68	0	817.80	140	IL 116	STA 5+04.70	LT. 15.07'	817.13
91	IL 116	STA 4+69.75	0	817.35	116	IL 116	STA 4+23.68	LT. 21.72'	817.27	141	IL 116	STA 5+04.88	LT. 17.48'	817.10
92	IL 116	STA 4+79.75	0	817.33	117	IL 116	STA 4+26.40	LT. 31.84'	816.96	142	IL 116	STA 5+14.72	0	817.39
93	IL 116	STA 3+29.53	0	818.89	118	IL 116	STA 4+33.96	0	817.52	143	IL 116	STA 5+14.72	LT. 14.52'	817.17
94	IL 116	STA 3+29.53	LT. 34.98'	819.50	119	IL 116	STA 4+33.96	LT. 20.79'	817.21	144	IL 116	STA 5+14.84	LT. 15.89	817.15
95	IL 116	STA 3+41.05	0	818.71	120	IL 116	STA 4+36.08	LT. 29.33'	816.95	145	IL 116	STA 5+24.74	0	817.44
96	IL 116	STA 3+41.05	LT. 33.97'	819.39	121	IL 116	STA 4+44.18	0	817.45	146	IL 116	STA 5+24.80	LT. 14.79'	817.22
97	IL 116	STA 3+53.58	0	818.53	122	IL 116	STA 4+44.18	LT. 19.90'	817.15	147	IL 116	STA 5+34.77	0	817.51
98	IL 116	STA 3+53.58	LT. 32.87'	818.95	123	IL 116	STA 4+45.81	LT. 27.00'	816.95	148	IL 116	STA 5+34.77	LT. 14.07'	817.30
99	IL 116	STA 3+69.96	0	818.28	124	IL 116	STA 4+54.35	0	817.40	149	IL 116	STA 5+44.76	0	817.59
POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION	POINT NO.	ROUTE	STATION	OFFSET	ELEVATION
150	IL 116	STA 5+44.76	LT. 13.38'	817.39	175	IL 94	STA 294+55.85	LT. 27.00'	821.06	200	IL 94	STA 293+82.57	LT. 27.68'	823.78
151	IL 116	STA 5+54.75	0	817.88	176	IL 94	STA 294+51.07	LT. 42.95'	820.95	201	IL 94	STA 293+52.58	0	824.45
152	IL 116	STA 5+54.75	LT. 13.17'	817.48	177	IL 94	STA 294+44.94	0	822.10	202	IL 94	STA 293+52.58	LT. 27.22	824.04
153	IL 116	STA 5+64.75	0	817.79	178	IL 94	STA 294+44.94	LT. 27.00'	821.89	203	IL 94	STA 293+42.58	0	824.71
154	IL 116	STA 5+64.75	LT. 13.02'	817.59	179	IL 94	STA 294+41.43	LT. 40.27'	821.35	204	IL 94	STA 293+42.58	LT. 27.01'	824.30
155	IL 116	STA 5+74.75	0	817.91	180	IL 94	STA 294+34.31	0	822.37	205	IL 94	STA 293+39.25	0	824.79
156	IL 116	STA 5+74.75	LT. 13.00'	817.72	181	IL 94	STA 294+34.31	LT. 27.00'	821.96	206	IL 94	STA 293+39.25	LT. 27.00'	824.39
157	IL 116	STA 3+55.04	LT. 32.75'	818.89	182	IL 94	STA 294+31.74	LT. 37.84'	821.71					
158	IL 116	STA 3+70.80	LT. 53.38'	818.11	183	IL 94	STA 294+23.81	0	822.84					
159	IL 116	STA 3+44.81	LT. 41.85'	819.50	184	IL 94	STA 294+23.81	LT. 27.00'	822.23					
160	IL 116	STA 3+83.31	LT. 59.89'	818.71	185	IL 94	STA 294+21.86	LT. 35.65'	822.05					
161	IL 94	STA 294+98.11	LT. 35.77'	820.17	186	IL 94	STA 294+13.41	0	822.90					
162	IL 94	STA 294+77.14	LT. 57.39'	819.30	187	IL 94	STA 294+13.41	LT. 27.00'	822.49					
163	IL 94	STA 295+12.00	0	820.39	188	IL 94	STA 294+12.17	LT. 33.70'	822.37					
164	IL 94	STA 295+04.13	0	820.59	189	IL 94	STA 294+03.11	0	823.16					
165	IL 94	STA 295+04.13	LT. 33.00'	820.04	190	IL 94	STA 294+03.11	LT. 27.00'	822.75					
166	IL 94	STA 294+96.26	0	820.79	191	IL 94	STA 294+02.32	LT. 32.00'	822.67					
167	IL 94	STA 294+96.26	LT. 33.00'	820.24	192	IL 94	STA 293+92.80	0	823.42					
168	IL 94	STA 294+84.99	0	821.08	193	IL 94	STA 293+92.80	LT. 27.00'	823.01					
169	IL 94	STA 294+84.99	LT. 27.00'	820.67	194	IL 94	STA 293+92.42	LT. 30.65'	822.96					
170	IL 94	STA 294+89.15	LT. 51.33'	819.80	195	IL 94	STA 293+82.50	0	823.89					
171	IL 94	STA 294+89.45	0	821.47	196	IL 94	STA 293+82.50	LT. 29.34'	823.25					
172	IL 94	STA 294+89.45	LT. 27.00'	821.06	197	IL 94	STA 293+72.54	0	823.94					
173	IL 94	STA 294+80.41	LT. 48.50'	820.42	198	IL 94	STA 293+72.54	LT. 28.39'	823.51					
174	IL 94	STA 294+55.85	0	821.82	199	IL 94	STA 293+82.57	0	824.20					



NOTE:
 PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

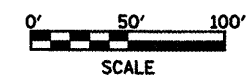
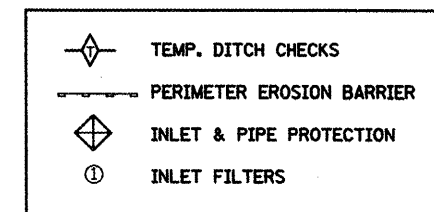


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PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 88773							
PLOT DATE = 1/20/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.								



NOTE:

PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

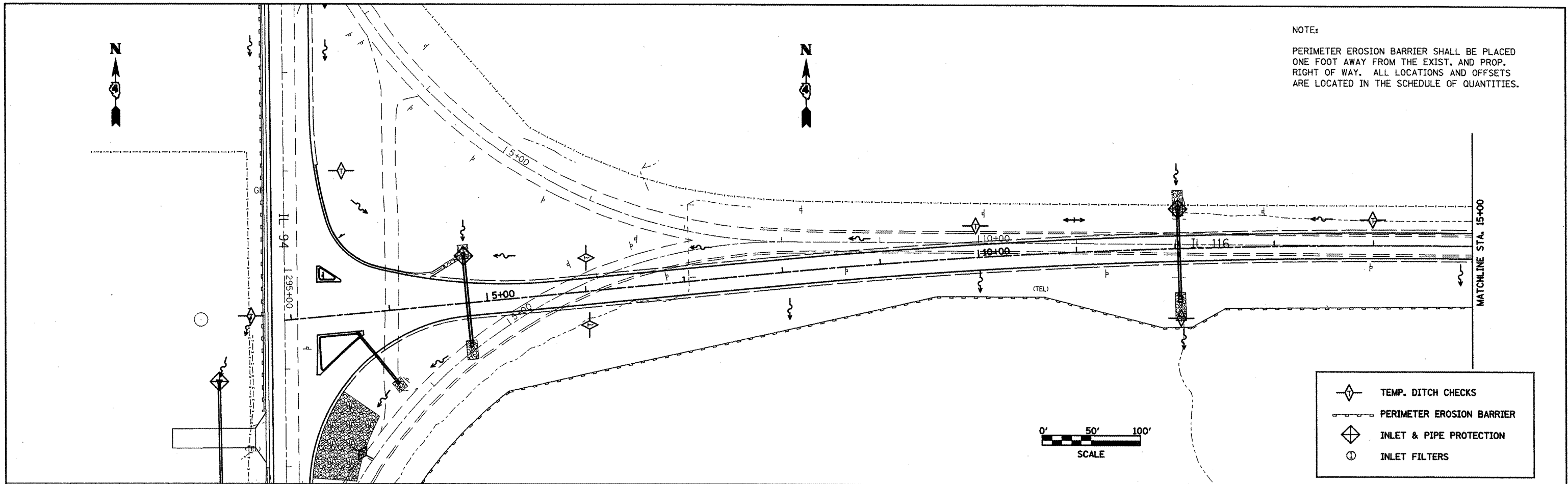


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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -					665		HENDERSON		190	
	PLOT DATE = 1/20/2009	CHECKED -	REVISED -					SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 88773	
	DATE -	REVISED -											

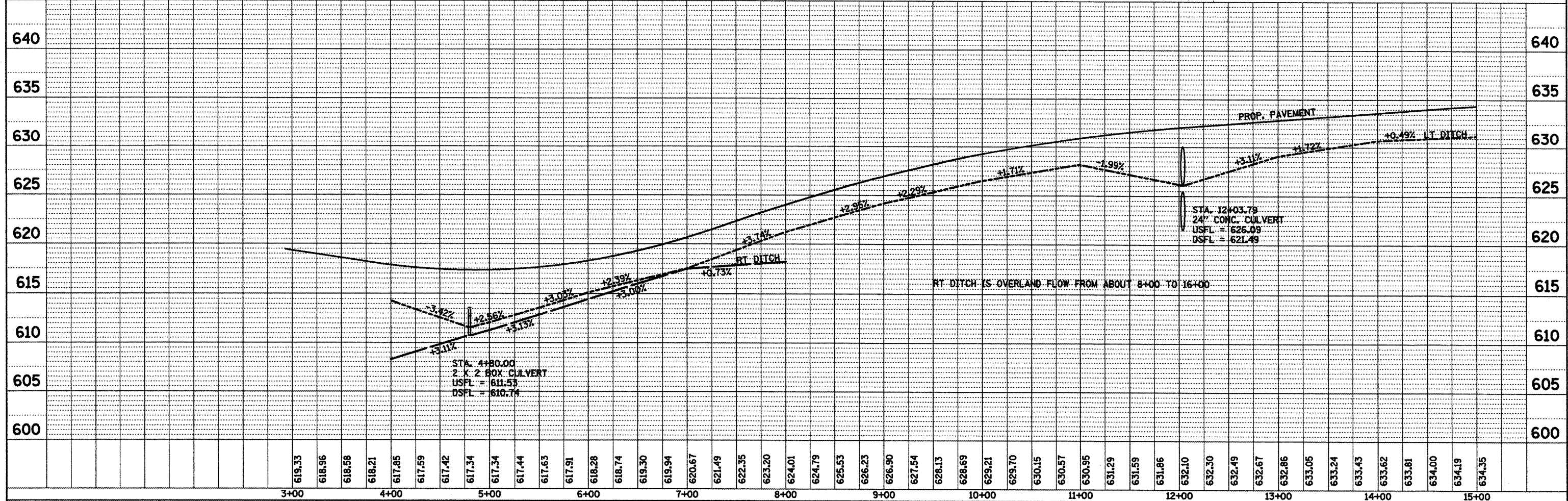
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NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



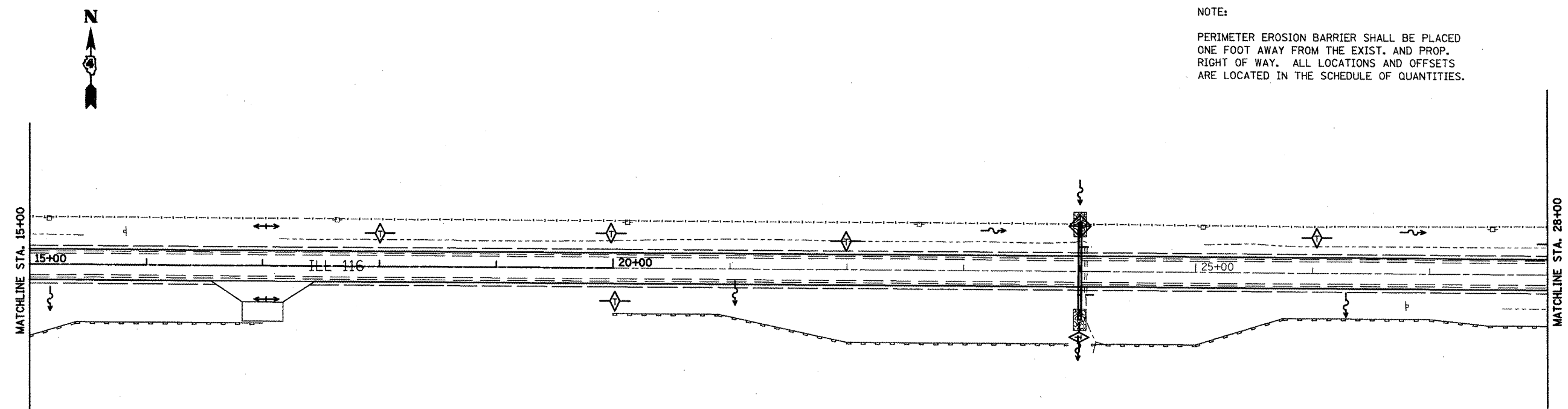
- TEMP. DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION
- INLET FILTERS



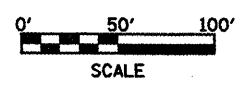
FILE NAME = drandeta1.dgn	USER NAME = ghdnsm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 2+93.34 TO STA. 15+00			F.A.P. RTE. 665	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -						HENDERSON		197		
		CHECKED -	REVISED -										CONTRACT NO. 88773
		DATE -	REVISED -										
PLOT SCALE = 100,0000 / IN.		DATE = 1/28/2009		SCALE:		SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
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	CHECKED		
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	FILE NAME		

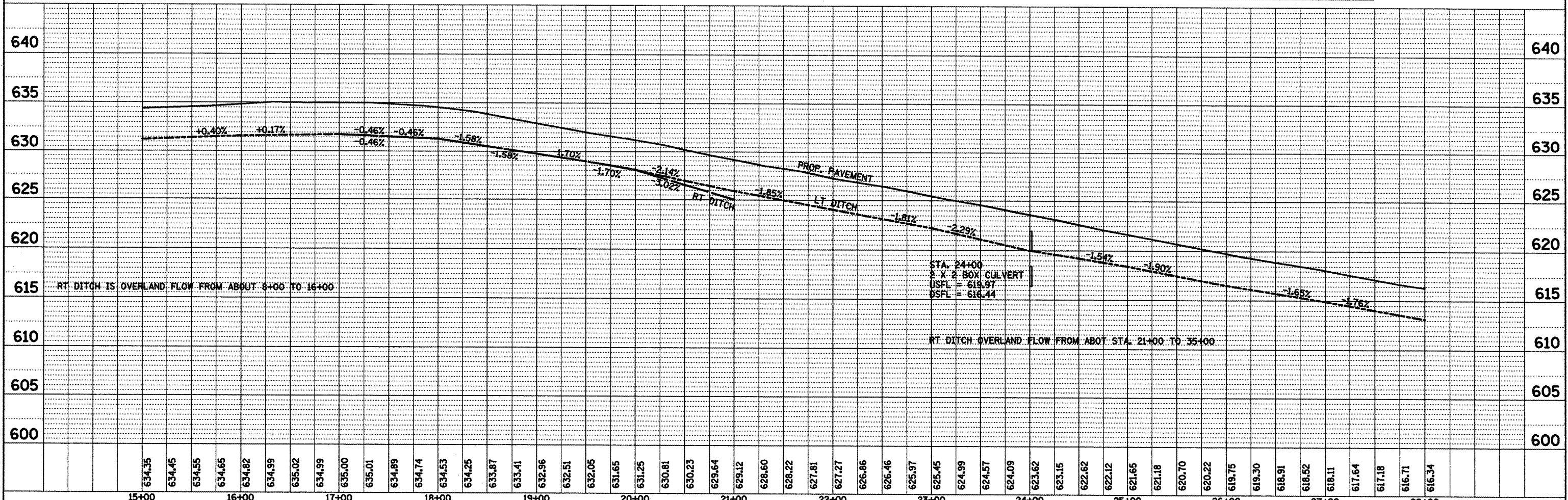
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	PLOTTED		
	CHECKED		
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	FILE NAME		



NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



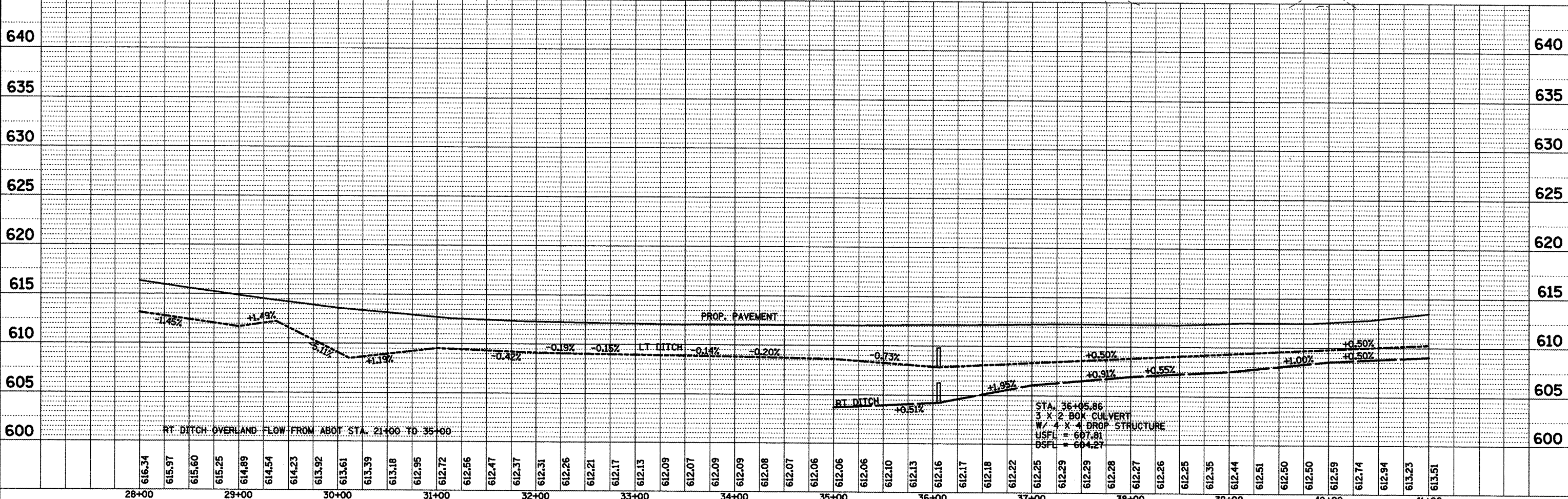
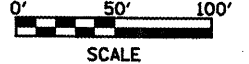
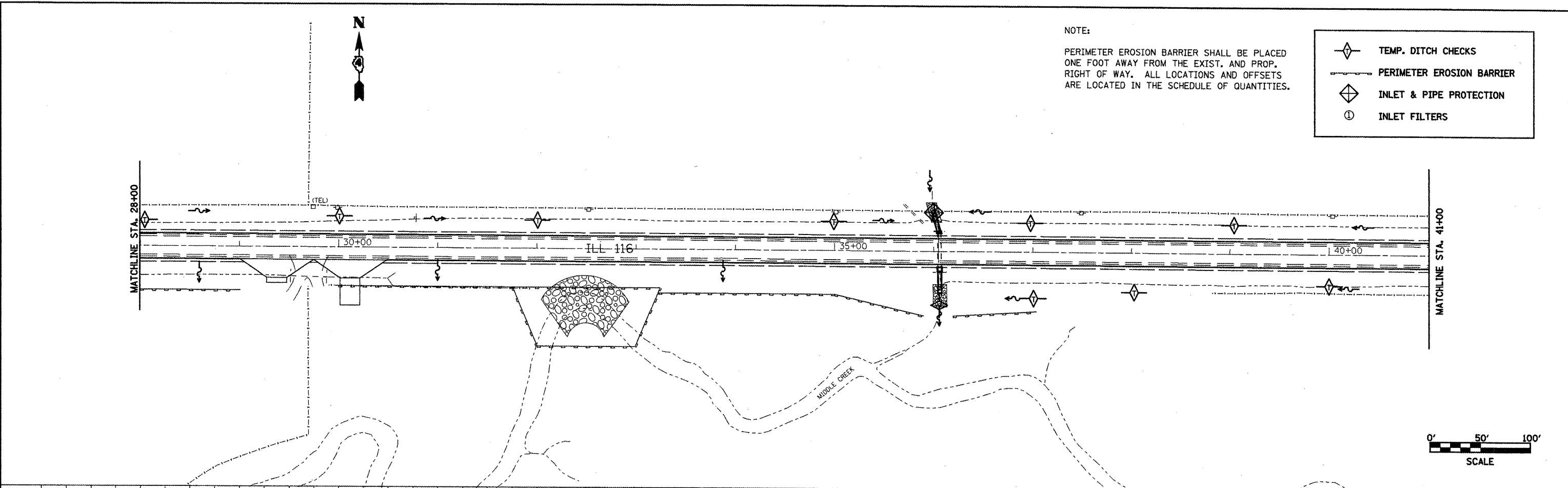
- TEMP. DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION
- INLET FILTERS



FILE NAME = draindetail.dgn	USER NAME = ghdinaam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 15+00 TO STA. 28+00	F.A.P. RTE. 665	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -					HENDERSON		192	
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		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	ALIGNED	
	NOTE BOOK	
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PROFILE	SURVEYED	DATE
	NOTES CHECKED	
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	STRUCTURE NOTATIONS CHECKED	

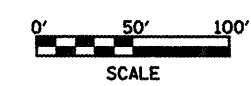
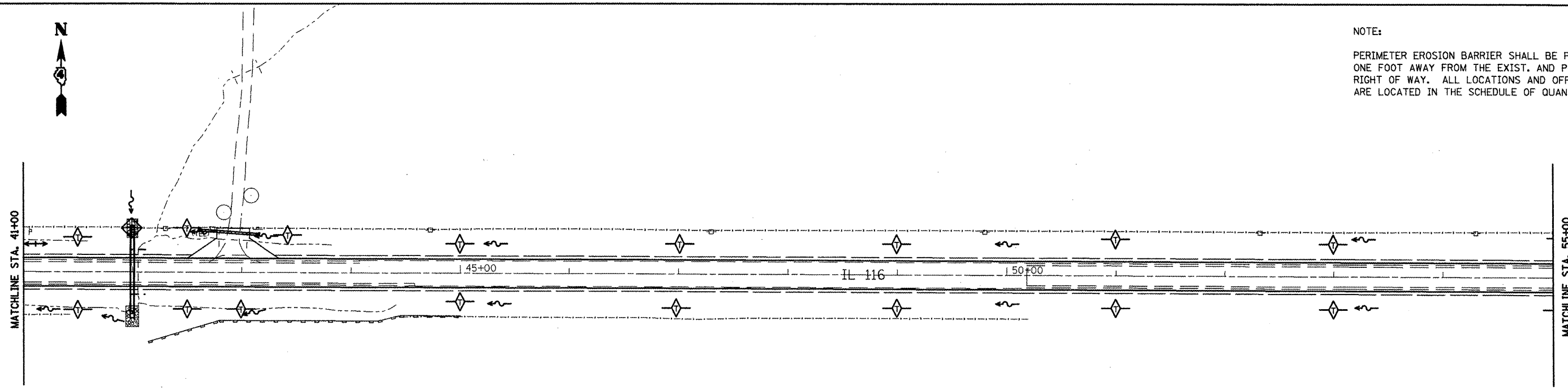


FILE NAME = draindetail.dgn	USER NAME = ghidnam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 28+00 TO STA. 41+00		F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 193	SHEET NO. 793
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PLOT DATE = 1/28/2009	DATE -	REVISED -									

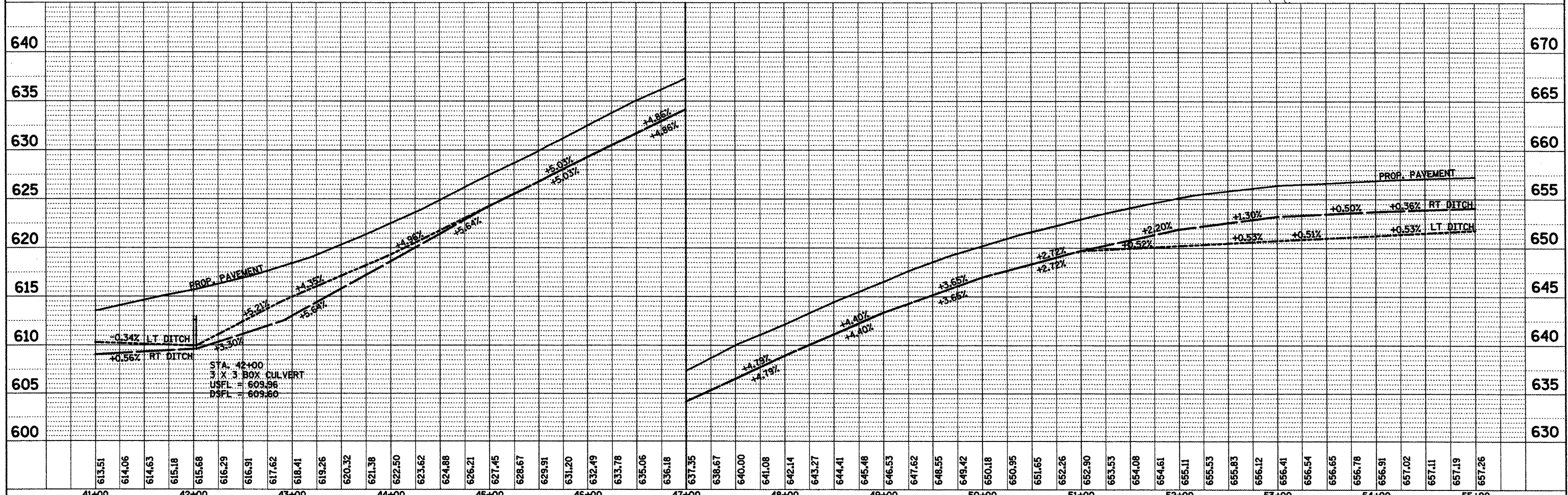
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PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	BLM NOTED		
	STRUCTURE NOTATION CHECKED		
	NO.		

NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

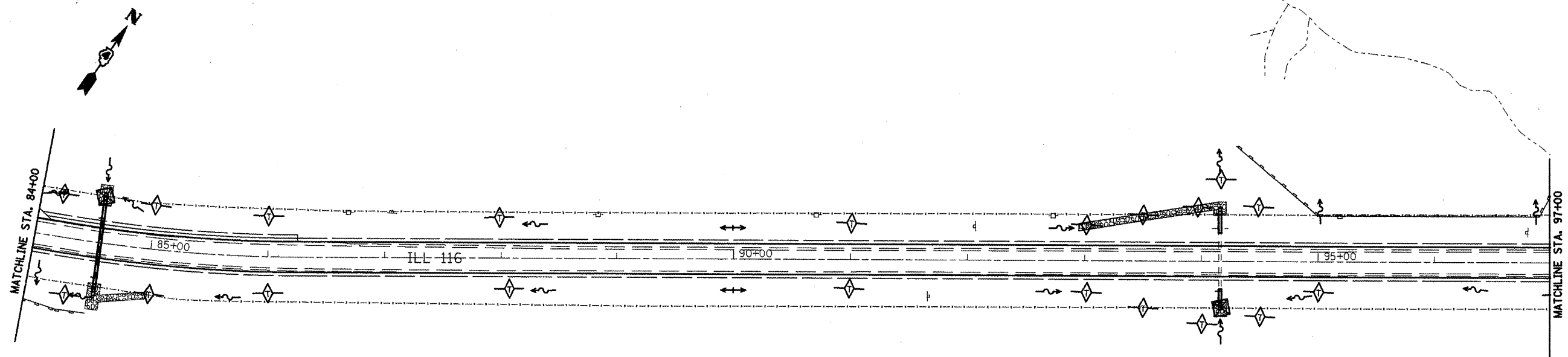


- TEMP. DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION
- INLET FILTERS

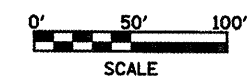


FILE NAME = draindetail.dgn	USER NAME = ghadrnaam	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 41+00 TO STA. 55+00			F.A.P. RTE. 665	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -						HENDERSON		194		
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PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTED	NO.
	FILE NAME	

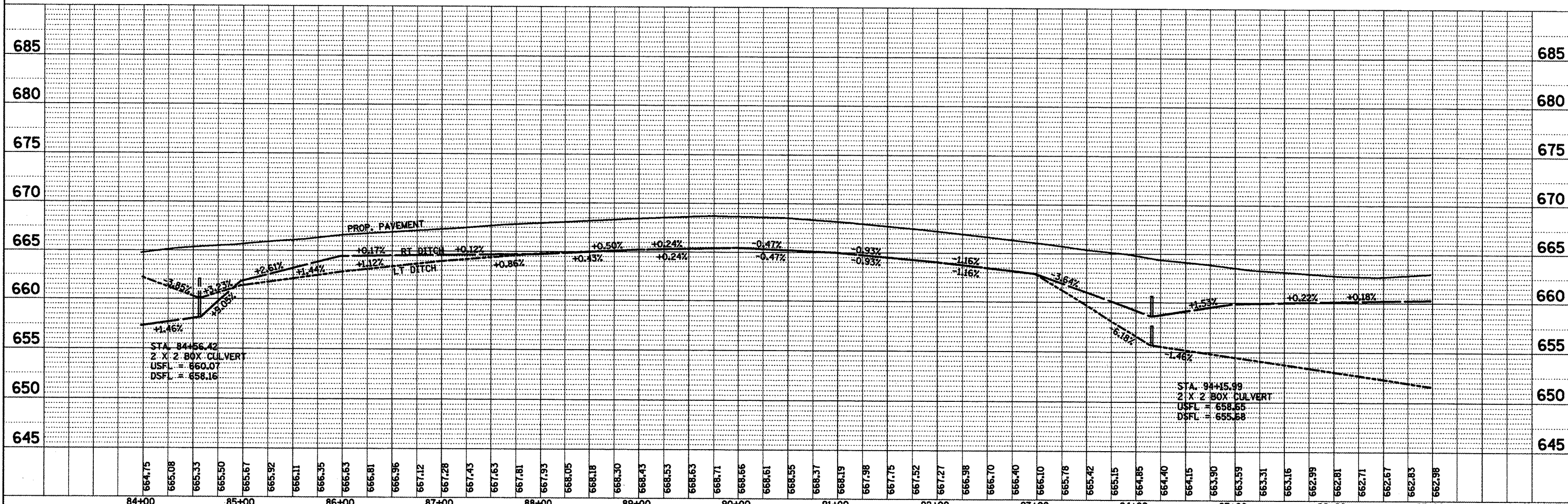


NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



	TEMP. DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET & PIPE PROTECTION
	INLET FILTERS

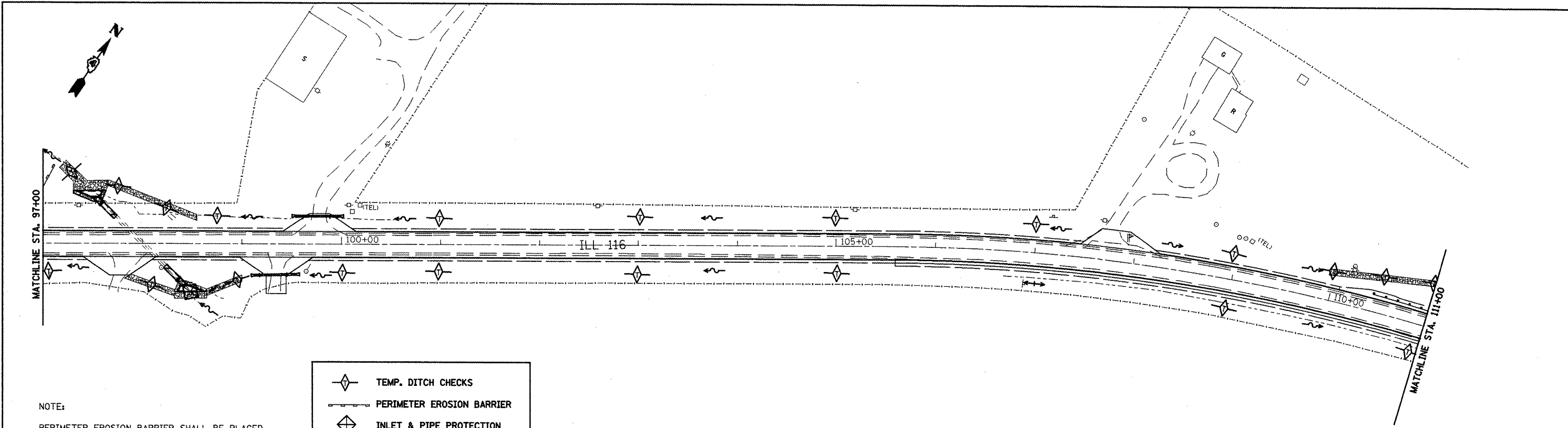
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FILE NAME = draindetail.dgn	USER NAME = ghdreem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 84+00 TO STA. 97+00	F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 197	SHEET NO. 197		
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	PLOT DATE = 1/20/2009	CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
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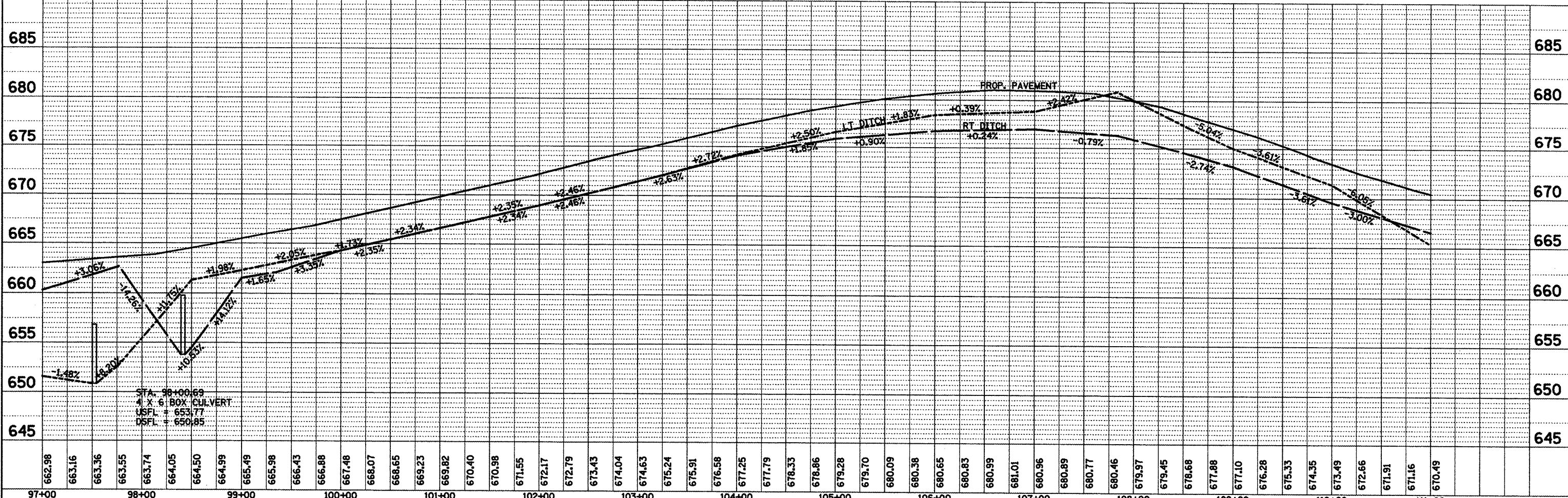
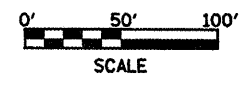
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	NO.	
	FILE NAME	



NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

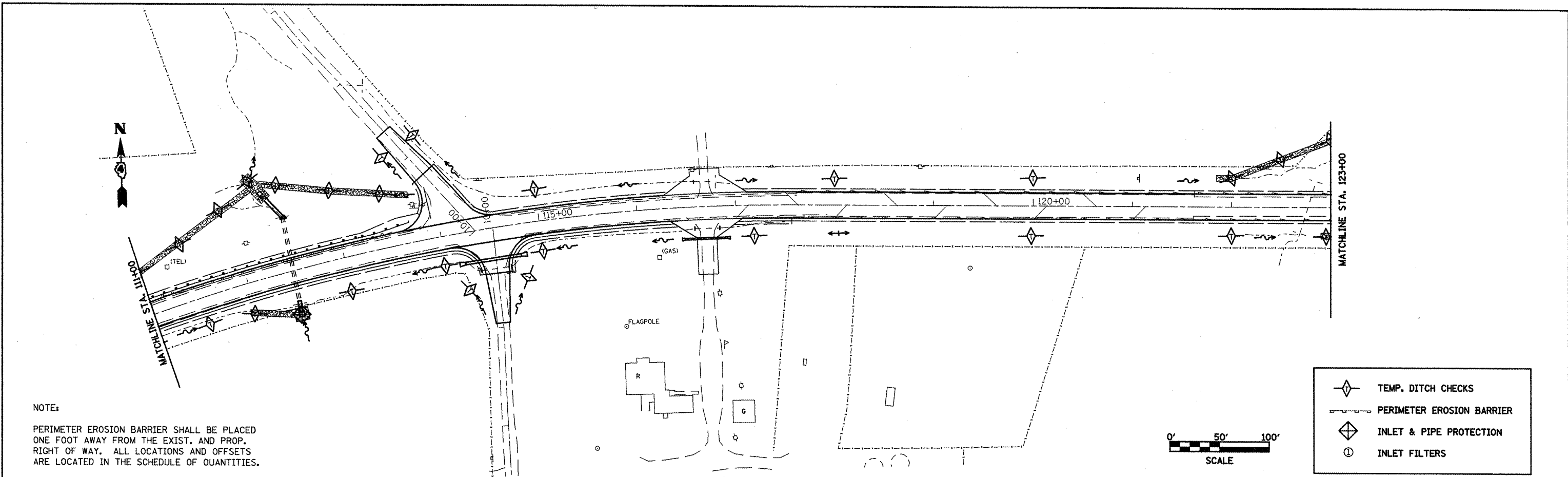
TEMP. DITCH CHECKS
 PERIMETER EROSION BARRIER
 INLET & PIPE PROTECTION
 INLET FILTERS



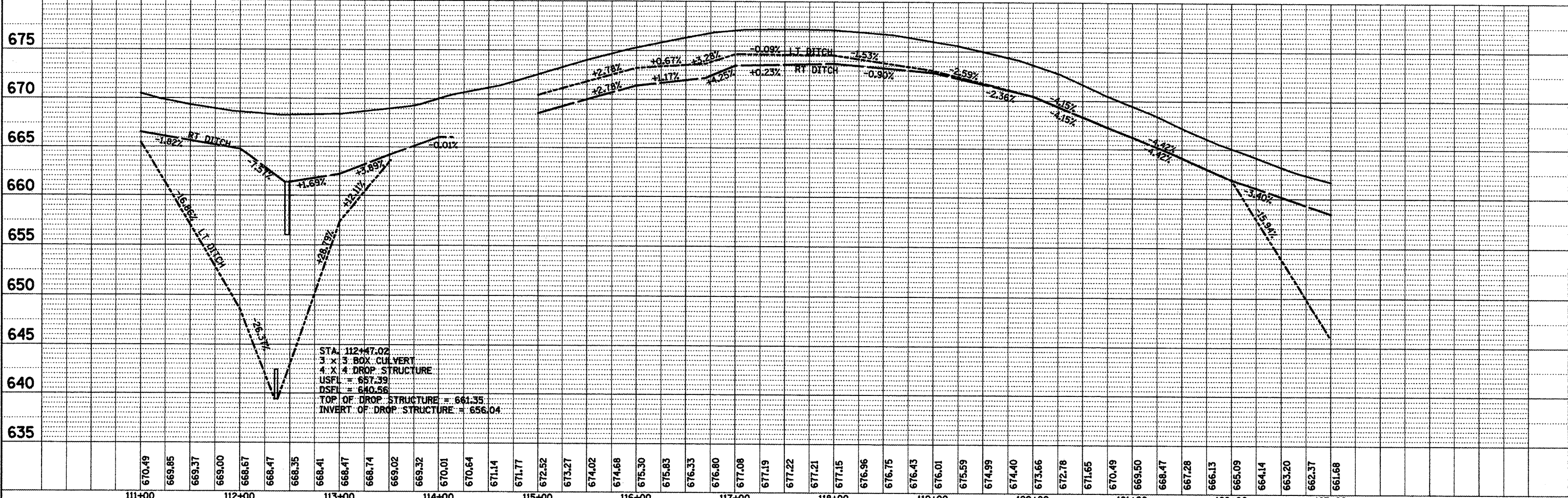
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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 88773				
	PLOT DATE = 1/20/2009	CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

PLAN	SURVEYED	BY	DATE
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	NO. _____		
	ADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	BOX NOTED		
	STRUCTURE NOTATION CHRD		
	NO. _____		



NOTE:
PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.



FILE NAME = drandetail.dgn	USER NAME = ghdsnaem	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 111+00 TO STA. 123+00	F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 199	SHEET NO. 199	
PLOT SCALE = 100.0000' / IN.		DRAWN -	REVISED -			CONTRACT NO. 88773					
PLOT DATE = 1/28/2009		CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.					

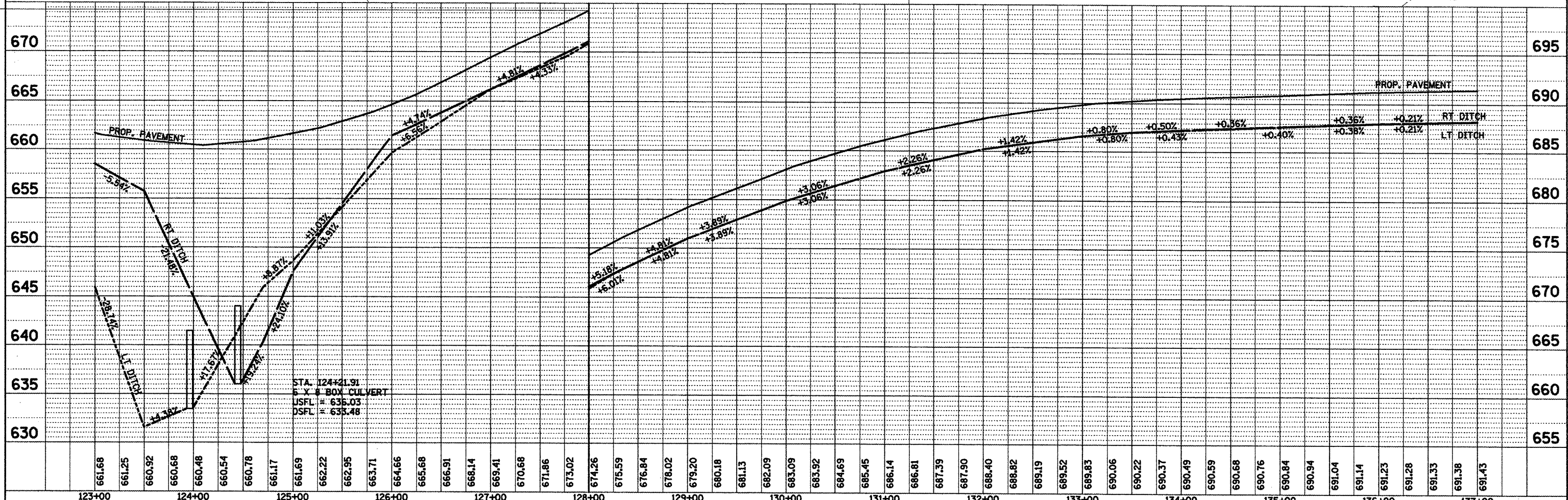
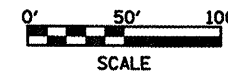
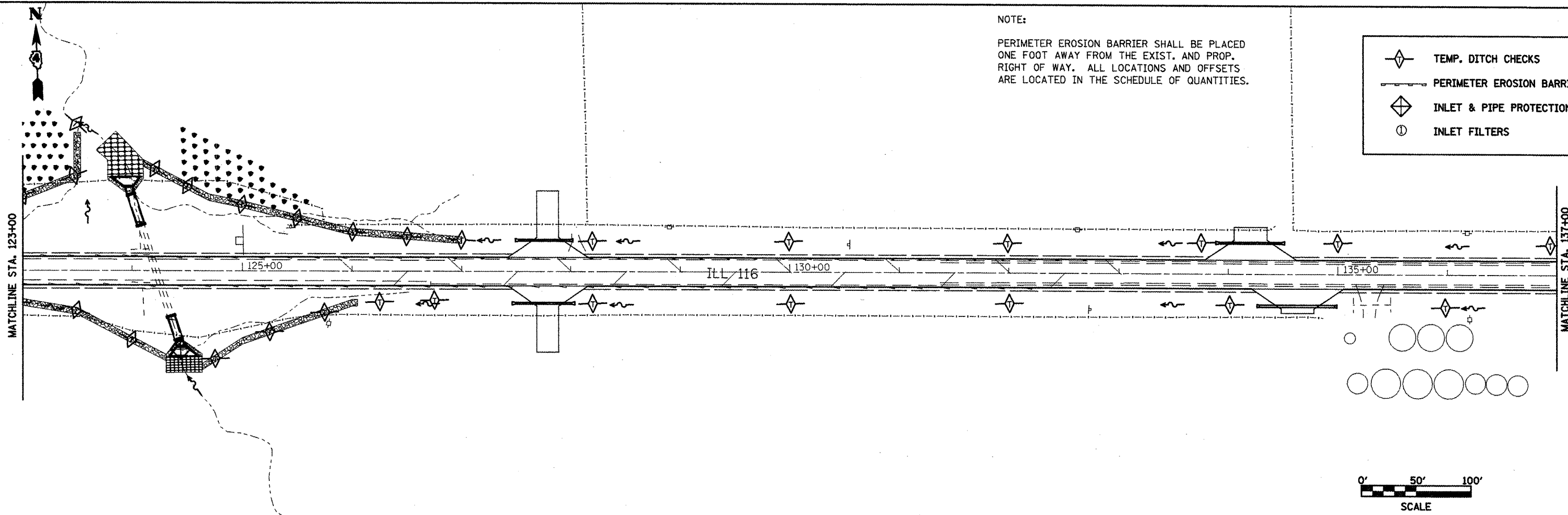
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GRADES CHECKED	
NOTE BOOK	
NO.	

NOTE:

PERIMETER EROSION BARRIER SHALL BE PLACED ONE FOOT AWAY FROM THE EXIST. AND PROP. RIGHT OF WAY. ALL LOCATIONS AND OFFSETS ARE LOCATED IN THE SCHEDULE OF QUANTITIES.

	TEMP. DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET & PIPE PROTECTION
	INLET FILTERS



FILE NAME = drcandetail.dgn	USER NAME = ghadnaam	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY EROSION CONTROL IL 116 STA. 123+00 TO STA. 137+00	F.A.P. RTE. 665	SECTION	COUNTY HENDERSON	TOTAL SHEETS 200	SHEET NO. 200
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