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ROADWAY CLASS:

URBAN - MINOR ARTERIAL
2030 ADT = 2180
2.0% TRUCKS
POSTED SPEED = 30 MPH

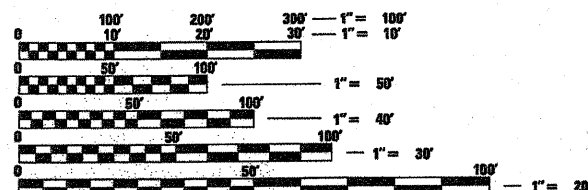
UTILITIES

ILLINOIS CONSOLIDATED COMMUNICATIONS
1000 SOUTH SPRESSER ST.
TAYLORVILLE, IL 62568
ATTENTION: DOUG HOUTCHINS 217-824-9909

AMEREN IP (ELECTRIC & GAS)
500 OLD BUS LINE ROAD
P.O. BOX 579
HILLSBORO, IL 62049
ATTENTION: DEBBY LEWEY 217-532-8278

CITY OF LITCHFIELD
WATER, SEWER AND STREET DEPT.
120 EAST RYDER
LITCHFIELD, IL 62056
ATTENTION: ART LEVOY 217-324-4716

DAM PROPERTY OWNER: CITY OF LITCHFIELD



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

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

CONTRACT NO. **93537**



CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

STATE OF ILLINOIS MONTGOMERY COUNTY

PROPOSED PLANS EMERGENCY RELIEF PROGRAM

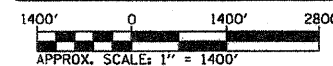
F.A.U. ROUTE 8243
SECTION 09-00134-00-DR
PROJECT ER-5039(011)

MONTGOMERY COUNTY
JOB NUMBER: C-96-211-10

NIEMANVILLE TRAIL - STRUCTURE REPAIRS
AND WALTON LAKE DAM SPILLWAY REPLACEMENT



LOCATION MAP



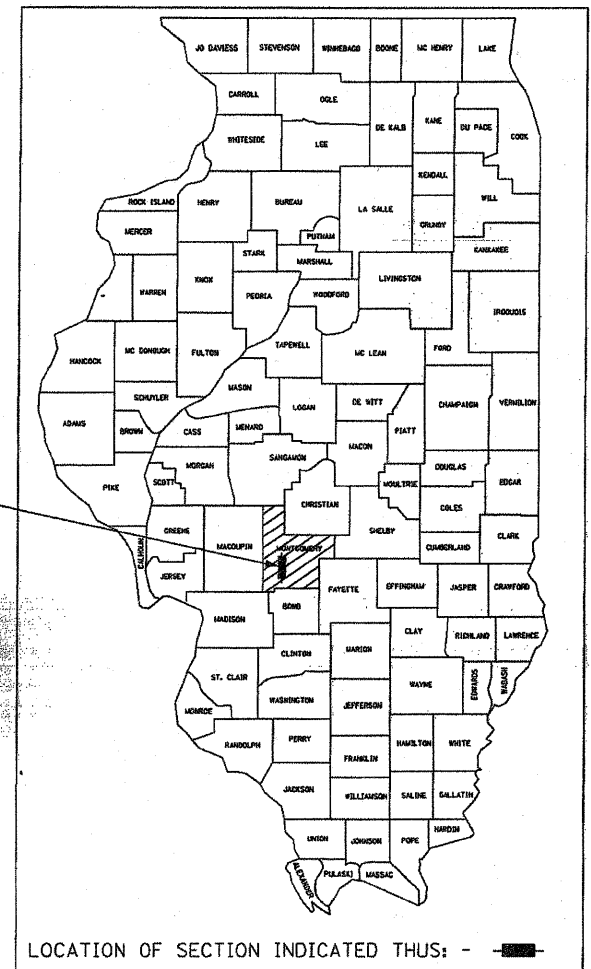
LENGTH OF IMPROVEMENT = 483.33 FT. = 0.092 MILE

END STATION 5+51.33
S.N. 068-3232
CARRYING F.A.U. 8243
OVER WALTON LAKE DAM
STA. 1+98.33
BEGIN STA. 0+68.00



SIGNATURE: *Kurt Tunn*
DATE SIGNED: **3-2-2010**
LICENSE EXPIRATION DATE: **11-30-2011**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8243	09-00134-00-DR	MONTGOMERY	32	1
ILLINOIS			CONTRACT NO. 93537	



LOCATION OF SECTION INDICATED THUS: -

APPROVED **3-3-2010**
[Signature]
COUNTY ENGINEER, MONTGOMERY COUNTY, ILLINOIS

PASSED **March 30 2010**
[Signature]
DISTRICT SIX ENGINEER OF
LOCAL ROADS & STREETS

PASSED **March 30 2010**
[Signature]
DISTRICT CONSTRUCTION ENGINEER

Releasing For
Bid Based on
Limited Review **March 30 2010**

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION 09-00134-00-DR COUNTY: MONTGOMERY NIEMANVILLE TRAIL - STRUCTURE REPAIRS

GENERAL NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR, HOWEVER, WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
2. THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.
3. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	112.0 POUNDS/SQ. YD./INCH
ALL AGGREGATE AND RIPRAP BEDDING	2.05 TONS/CU.YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL./SQ.YD.
INTERMEDIATE LIFTS (FOG COAT)	0.04 GAL./SQ.YD.
ON AGGREGATE SURFACE	0.32 GAL./SQ.YD.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ.YD.
RIPRAP	1.50 TONS/CU.YD.

4. AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
5. RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

STRUCTURES WITH PROJECT LIMITS

STRUCTURE NO.	OPERATING RATING	INVENTORY RATING	POSTING
S.N. 068-3232 (EXISTING SUPER- STRUCTURE TO BE REMOVED AND REPLACED)	HS 27.3	HS 20.0	40 TONS

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. (811 DIRECT NUMBER)

THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN IS FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR OR SUBCONTRACTOR TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

ALL UTILITY FACILITIES THAT REQUIRE RELOCATION WITHIN COUNTY R.O.W. SHALL BE COMPLETED BY THE UTILITY COMPANY UNLESS OTHERWISE SHOWN ON THE PLANS.

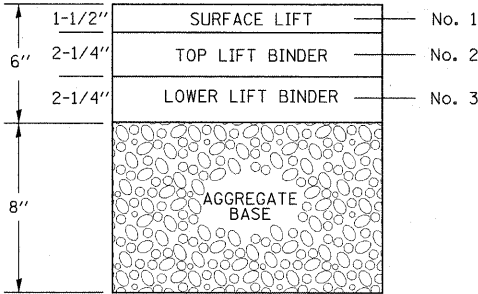
8. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
9. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.
10. ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THE THIS SHEET OR THE COPY INCLUDED IN THESE PLANS.
11. IDNR/OWR HAS ISSUED PERMIT DS2010027 FOR CONSTRUCTION OF THIS PROJECT.
12. WHERE SECTION OR SUB-SECTION STONES OR PROPERTY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN AUTHORIZED SURVEYOR HAS WITNESSED THEIR LOCATION.

COMMITMENTS

NONE IDENTIFIED AS OF MARCH 1, 2010

MIXTURE REQUIREMENTS

MIXTURE NUMBER:	No. 1	No. 2	No. 3
LOCATION(S):			
MIXTURE USE(S):	HOT MIX ASPHALT SURFACE LIFT	TOP BINDER LIFT	LOWER BINDER LIFT
AC/PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 OR IL-12.5	IL-19.0	IL-19.0
FRICTION AGGREGATE:	MIX "C"	N/A	N/A



NIEMANVILLE TRAIL
HOT MIX ASPHALT LIFT DIAGRAM

STRUCTURAL DESIGN INFORMATION (NIEMANVILLE TRAIL)					
CLASS III STREET					
DESIGN TRAFFIC (2020): 1786 TOTAL ADT					
P.V. = 1643 S.U. = 107 M.U. = 36					
T.F. = 0.1932 (80,000 LB. LOAD LIMIT)					
DESIGN STRAIN = 230 (MICROSTRAIN)					
CONSTRUCT: HOT-MIX ASPHALT PAVEMENT, 6"					
WITH AGGREGATE BASE COURSE, TYPE A, 8"					

WALTON LAKE PEAK WATER LEVELS					
EXISTING		TEMP. DIVERSION		PROPOSED	
10 YR.	100 YR.	10 YR.	100 YR.	10 YR.	100 YR.
—	668.38	666.52	668.40	—	665.44

* TEMPORARY DIVERSION HYDRAULICS BASED ON 2-36" DIAMETER PIPES. SEE SPECIAL PROVISIONS FOR TEMPORARY DIVERSION REQUIREMENTS.

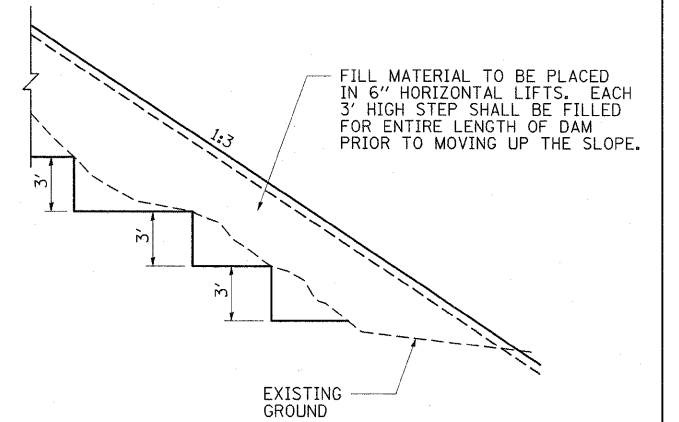
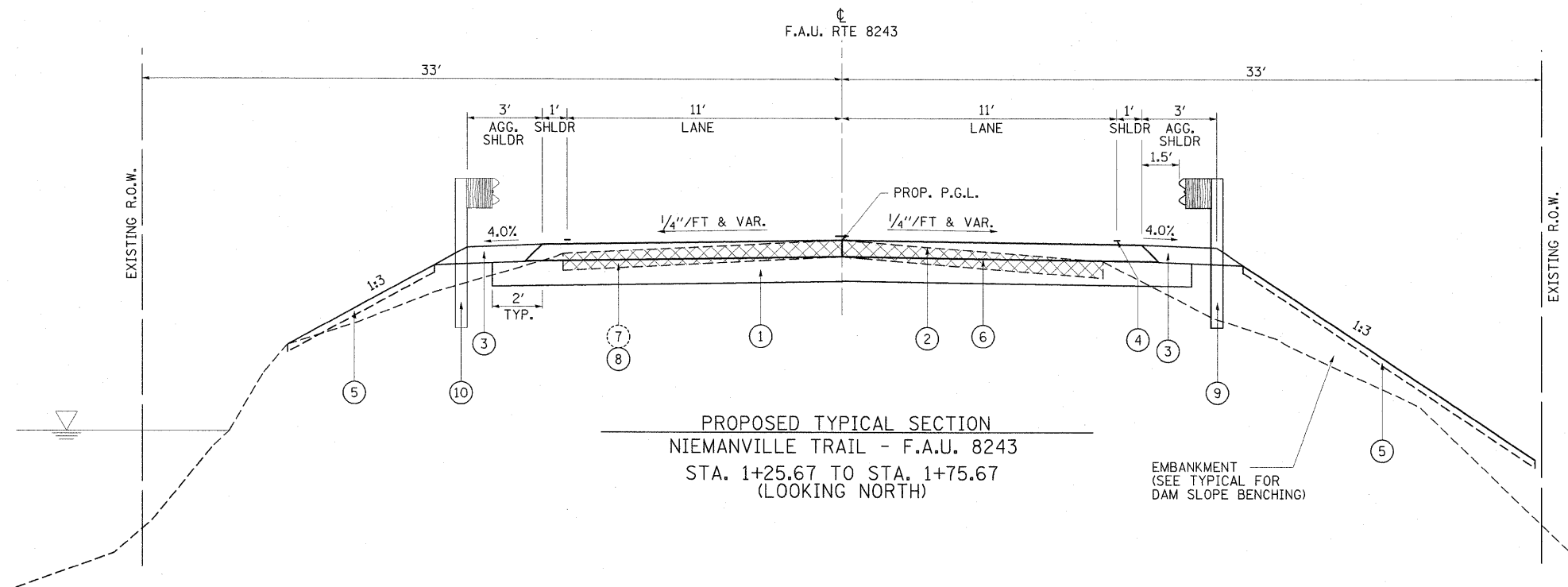
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	PLOT SCALE = 20.0000' / IN.	CHECKED - KLT/JJF	REVISED -		SCALE: N/A				CONTRACT NO. 93537				
	PLOT DATE = 3/3/2010	DATE - 3/2/2010	REVISED -		SHEET NO. 2 OF 32 SHEETS				FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				
					STA. N/A TO STA. N/A								

SUMMARY OF QUANTITIES				
S.P.	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
	20100500	TREE REMOVAL ACRES	ACRE	1.75
	20200100	EARTH EXCAVATION	CU YD	2,416
	20400800	FURNISHED EXCAVATION	CU YD	5,158
	20900110	POROUS GRANULAR BACKFILL	CU YD	360
	58600100	SAND BACKFILL	CU YD	345
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	717
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	882
	25000305	SEEDING, CLASS 3A	ACRE	1.75
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	158
	25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	158
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	158
	25000700	AGRICULTURAL GROUND LIMESTONE	TON	4
	25100115	MULCH, METHOD 2	ACRE	1.25
	25100630	EROSION CONTROL BLANKET	SQ YD	3,197
	28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	25
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350
	28000305	TEMPORARY DITCH CHECKS	FOOT	60
	28000400	PERIMETER EROSION BARRIER	FOOT	526
	28001000	AGGREGATE (EROSION CONTROL)	TON	53
	28100207	STONE RIPRAP, CLASS A4	TON	414
	28200200	FILTER FABRIC	SQ YD	552
	35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	249
	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	115
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	60
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	33
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	62
	X50100205	REMOVAL OF EXISTING STRUCTURES , SPECIAL	EACH	1
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
	50104000	BRIDGE RAIL REMOVAL	FOOT	88
	50200100	STRUCTURE EXCAVATION	CU YD	565
	50200300	COFFERDAM EXCAVATION	CU YD	300
	50202901	COFFERDAM (LOCATION - 1)	EACH	1
	50300225	CONCRETE STRUCTURES	CU YD	493.1
	50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,232

[illegible]

Δ. SPECIALTY ITEMS

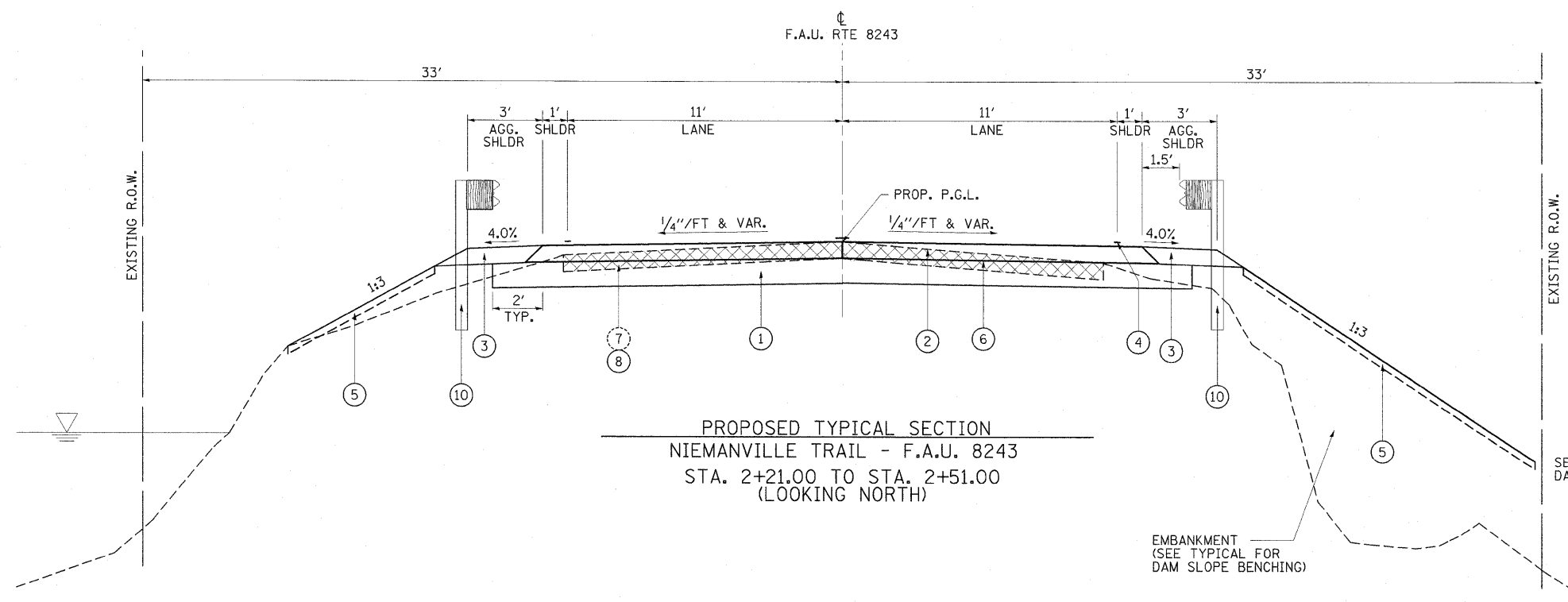
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SCALE:						SHEET NO. 3 OF 32 SHEETS		STA.		TO STA.	



TYPICAL DAM SLOPE BENCHING
STA. 1+25.67 TO STA. 4+00.00

LEGEND

- ① PROPOSED AGGREGATE BASE COURSE, TYPE A, 8"
- ② PROPOSED HOT MIX ASPHALT PAVEMENT, 6" (SEE SHEET 2)
- ③ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ④ PROPOSED PAVEMENT MARKING
- ⑤ PROPOSED TOPSOIL PLACEMENT, 4" AND SEEDING CLASS 3A WITH MULCH METHOD 2
- ⑥ PROPOSED BITUMINOUS PRIME COAT
- ⑦ EXISTING OIL & CHIP SURFACE PAVEMENT
- ⑧ PAVEMENT REMOVAL IN ACCORDANCE WITH EARTH EXCAVATION SPECIAL PROVISION
- ⑨ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE B
- ⑩ REMOVE AND REINSTALL EXISTING STEEL PLATE BEAM GUARDRAIL



SEE TYPICAL FOR
DAM SLOPE BENCHING

EMBANKMENT
(SEE TYPICAL FOR
DAM SLOPE BENCHING)

FILE NAME = ...draw\Sheets\sh-typical.dgn	USER NAME = Kristin Timmons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	TYPICAL SECTIONS S.N. 068-3232 F.A.U. ROUTE 8243	F.A.U. RTE. 8243	SECTION 09-00134-00-DR	COUNTY MONTGOMERY	TOTAL SHEETS 32	SHEET NO. 4	CONTRACT NO. 93537
PLOT SCALE = 3.0000' / IN.	CHECKED - KLT/JJF	DATE - 3/2/2010	REVISED -			SCALE: N/A	SHEET NO. 4 OF 32 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO. 6	ILLINOIS FED. AID PROJECT	
PLOT DATE = 3/3/2010											

EARTHWORK SCHEDULE

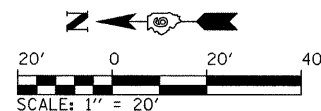
LOCATION			EARTH EXCAVATION	REMOVAL OF UNSUITABLE MATERIAL	EMBANKMENT	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE) 20%	EARTHWORK BALANCE** EXCESS (+) SHORTAGE (-)
STATION	TO	STATION	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
NIEMANVILLE TRAIL (AREA WITHIN R.O.W.)							
1+00.00	-	1+75.67	316	11	425	253	-172
2+21.00	-	4+00.00	1028	35	1046	822	-224
AREA OUTSIDE OF R.O.W (DAM AND SPILLWAY GRADING)							
1+00.00	-	4+50.00	262		5370	210	-5160
EARTH ON ROADWAY							
1+00.00	-	1+75.67	810			648	648
STRUCTURE EXCAVATION				565			
EMBANKMENT BELOW STRUCTURE					250		-250
COFFERDAM EXCAVATION				300			
TOTAL			2416	911	7091	1933	-5158

CONTROLLED LOW STRENGTH MATERIAL SCHEDULE

STATION / LOCATION	AREA	THICKNESS	CONTROLLED LOW STRENGTH MATERIAL (MX 2)	CONTROLLED LOW STRENGTH MATERIAL (MX 3)
	(SQ FT)	(FOOT)	(CU YD)	(CU YD)
NIEMANVILLE TRAIL				
SPILLWAY STILLING BASIN	1713.9	0.33	21.2	
SPILLWAY CHUTE	1571.5	0.33	19.4	
SPILLWAY WEIR	1905.0	0.33	23.5	
UPSTREAM AREA	20.0	36.00		26.7
DOWNSTREAM AREA	100.0	36.00		133.3
TOTALS			64.1	160.0

RIPRAP SCHEDULE

STATION / LOCATION			LT/RT	STONE DUMPED RIPRAP, CLASS A4	FILTER FABRIC
STATION	TO	STATION		(TON)	(SQ. YD.)
NIEMANVILLE TRAIL					
1+25.67	-	1+90.00	LT	21	28
1+78.00	-	2+18.00	RT	133	178
2+10.94	-	5+51.33	LT	157	210
4+95.69	-	5+13.00	RT	34	45
SPILLWAY WEIR PERIMETER ; 1+98.33			LT	69	91
TOTALS				414	552



LEGEND

- DITCH CHECK (TEMPORARY)
- SEDIMENT BASIN
- PERIMETER EROSION BARRIER

34 TONS STONE DUMPED RIPRAP, CLASS A4
(TEMPORARY-FOR FLOW DIVERSION)

EXISTING EARTH MATERIAL
STOCKPILED TO BE USED
AS TOPSOIL

LIMIT OF TREE REMOVAL
AND CLEARING (1.8 ACRES)

PERIMETER EROSION
BARRIER, 375'

STA. 3+25.00
200' RT.

STA. 2+63.17
219.09' RT.

STA. 2+55.00
250' RT.

STA. 2+35.00
290' RT.

STA. 1+55.00
290' RT.

STA. 1+75.00
220' RT.

TEMPORARY EROSION CONTROL SEEDING, 1.8 ACRES
(WITHIN PROPOSED CONSTRUCTION LIMITS)

STA. 1+55.00
100' RT.

STA. 1+00.00
100' RT.

PERIMETER EROSION
BARRIER, 151'

STA. 0+50
RT. 20'

EXISTING R.O.W.

PLUG EXISTING
DRAINS, 1 EACH

EXISTING R.O.W.

BORING LOCATION (1978)
STA. 1+65±

EXISTING SPILLWAY
TO BE REMOVED
(SHEET 13)

BORING B-2
STA. 2+55±

EXISTING EARTH MATERIAL
STOCKPILED TO BE USED
AS TOPSOIL

EXISTING EARTH MATERIAL
STOCKPILED TO BE USED
AS TOPSOIL

BORING B-3
STA. 2+95±

STA. 3+75.00
140' RT.

STA. 4+50.00
120' RT.

STA. 5+50.00
120' RT.

STA. 6+00.00
75' RT.

STA. 5+04.00, 56.72' RT.
INV. ELEV. = 658.70

EXISTING R.O.W.

EXISTING BRIDGE SUPERSTRUCTURE
TO BE REMOVED (SHEET 13)

BORING B-1
STA. 4+50±

TEMPORARY DIVERSION CULVERT(S)
STA. 5+04.00, 34.00' LT., INV. ELEV. = 659.70
(SEE TEMPORARY CLEAR WATER DIVERSION SP)
THE DAM CREST SHALL BE ELEV. = 664.50 ABOVE THE
CULVERTS FOR A LENGTH OF 25 FEET ALONG ROAD
CENTERLINE. CREST SECTION SHALL BE TEMPORARY
BACKFILLED WITH A TOP LAYER OF CLASS A3 RIPRAP,
CAPPED WITH AGGREGATE BASE FOR VEHICLE TRAFFIC.
SEE SPECIAL PROVISIONS.

ALL EARTH STORED ON PAVEMENT AND SHOULDER OF NIEMANVILLE TRAIL
(NORTH AND SOUTH OF BRIDGE) SHALL BE REMOVED DURING CONSTRUCTION,
FOLLOWING PLACEMENT OF ROAD CLOSED BARRICADES. (EARTH EXTENDS
BEYOND LIMITS OF PLAN SHEET)

TEMPORARY DRAWDOWN SIPHON
PIPE, 12" DIAM.
(SEE SPECIAL PROVISIONS)

REMOVE EXISTING RIPRAP, 40 SQ. YD.

WALTON LAKE

NORMAL WATER LEVEL, EL. = 661.70

EXISTING SIPON PIPE TO BE REMOVED BY
CITY OF LITCHFIELD FOLLOWING INSTALLATION
OF NEW SIPHON PIPE BY CONTRACTOR.

NOTES:

TEMPORARY EROSION CONTROL SEEDING TO BE
PERFORMED WITHIN THE LIMITS OF CONSTRUCTION.

NIEMANVILLE TRAIL
MONTGOMERY COUNTY, ILLINOIS

EXISTING SITE PLAN
F.A.U. ROUTE 8243

SCALE: 1"=20' SHEET NO. 6 OF 32 SHEETS STA. 0+00 TO STA. 6+00

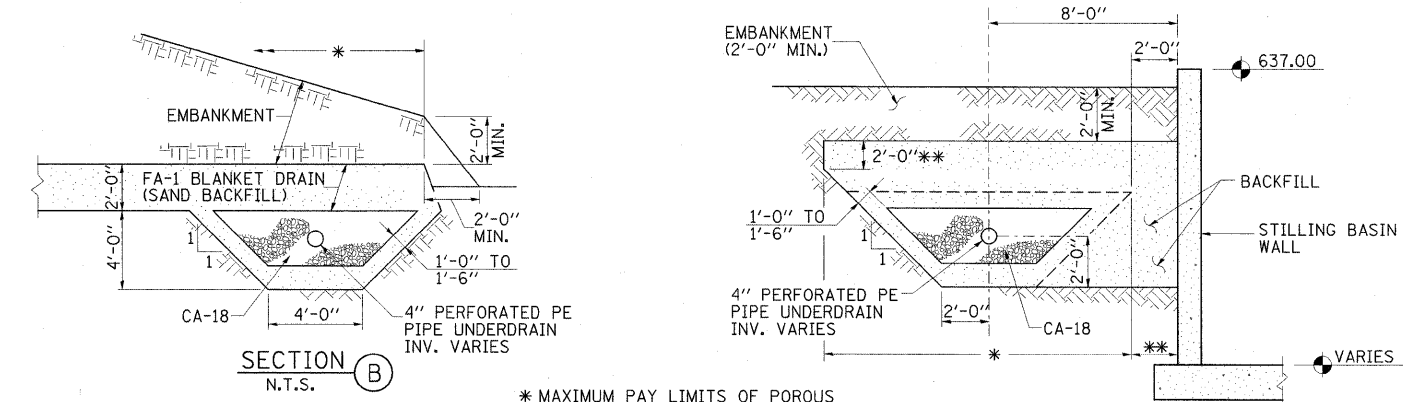
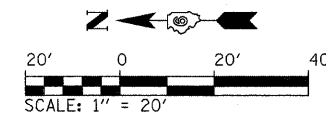
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8243	09-00134-00-DR	MONTGOMERY	32	6
CONTRACT NO. 93537				

FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT

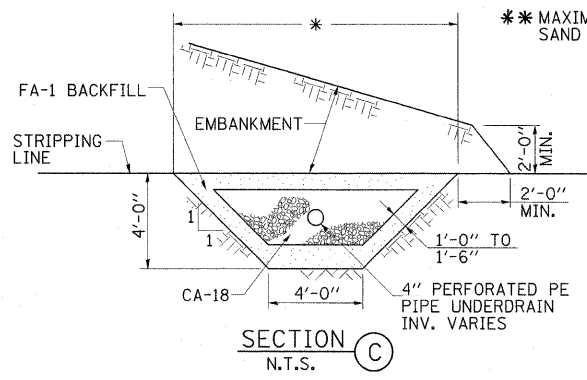
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	PLOT SCALE = 20.0000' / IN.	CHECKED = KLT/JJF	REVISED =
	PLOT DATE = 3/3/2010	DATE = 3/2/2010	REVISED =

BLANKET DRAIN (SAND BACKFILL) POINT LOCATIONS

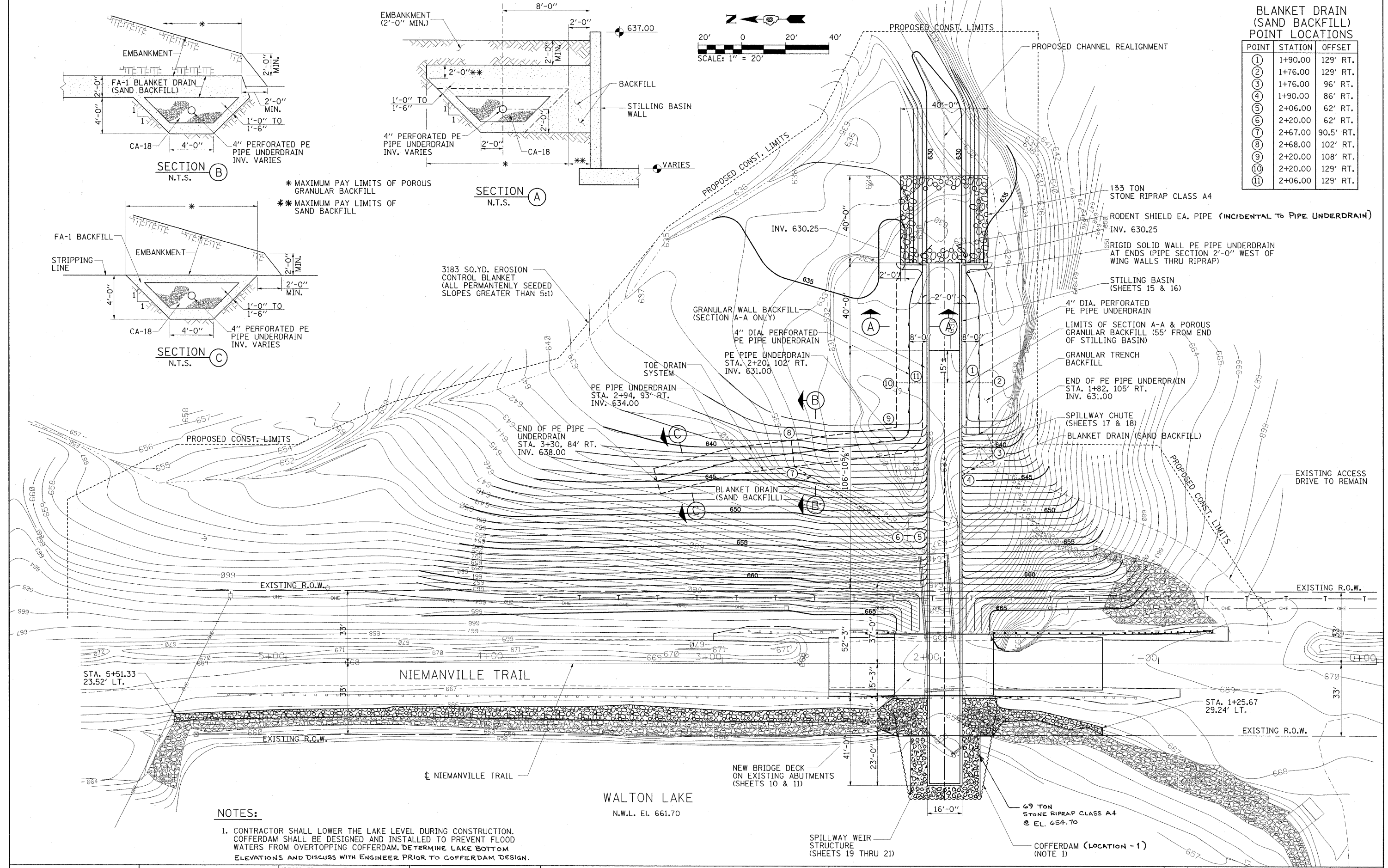
POINT	STATION	OFFSET
①	1+90.00	129' RT.
②	1+76.00	129' RT.
③	1+76.00	96' RT.
④	1+90.00	86' RT.
⑤	2+06.00	62' RT.
⑥	2+20.00	62' RT.
⑦	2+67.00	90.5' RT.
⑧	2+68.00	102' RT.
⑨	2+20.00	108' RT.
⑩	2+20.00	129' RT.
⑪	2+06.00	129' RT.



- * MAXIMUM PAY LIMITS OF POROUS GRANULAR BACKFILL
- ** MAXIMUM PAY LIMITS OF SAND BACKFILL



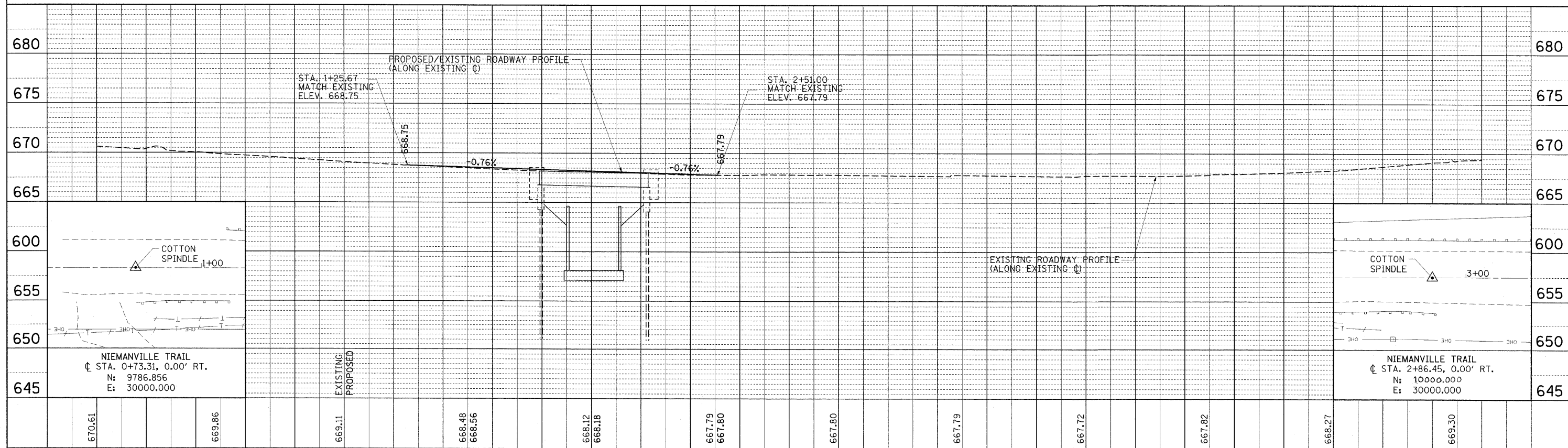
3183 SQ.YD. EROSION CONTROL BLANKET (ALL PERMANENTLY SEEDED SLOPES GREATER THAN 5:1)



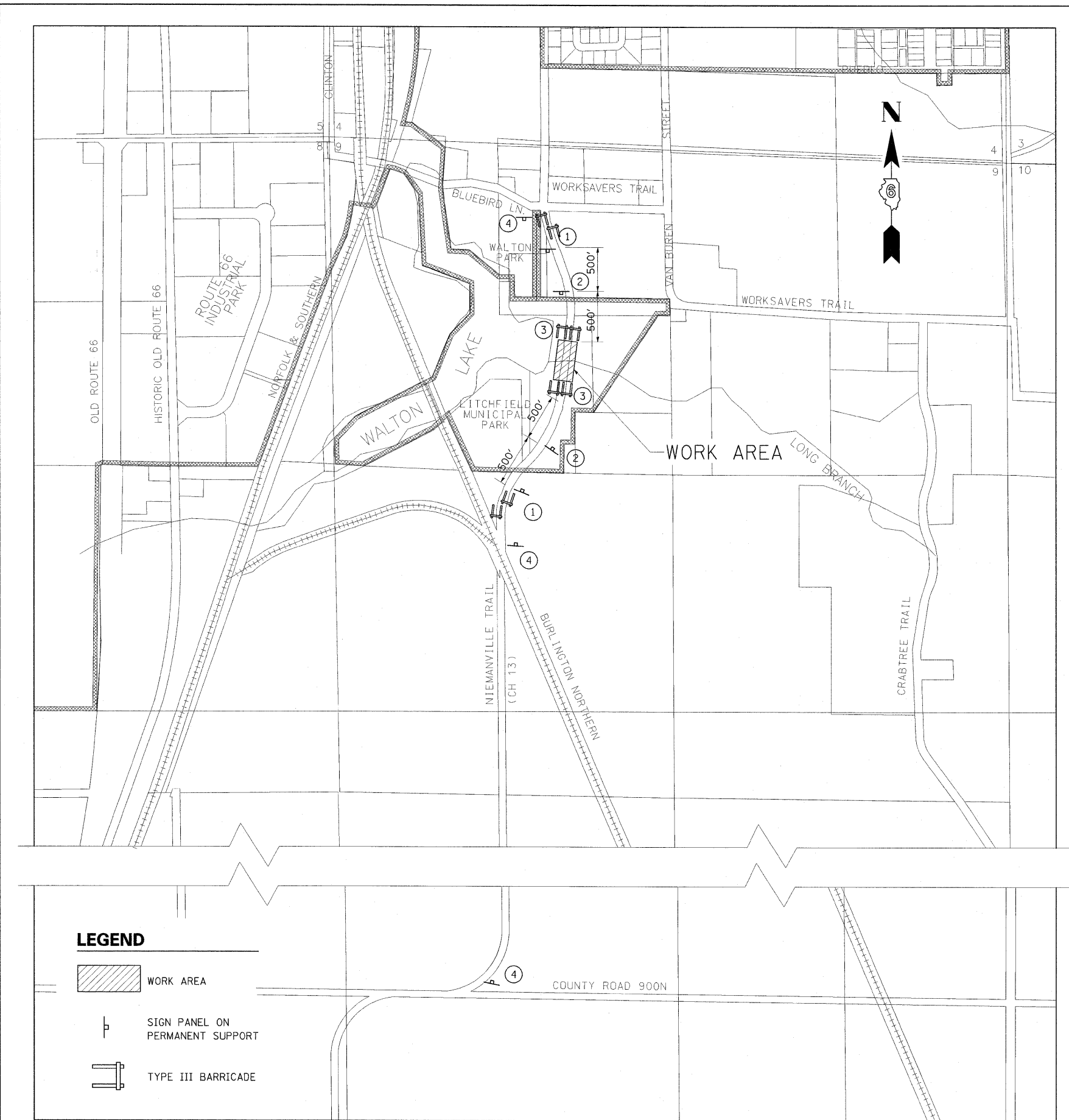
NOTES:

- CONTRACTOR SHALL LOWER THE LAKE LEVEL DURING CONSTRUCTION. COFFERDAM SHALL BE DESIGNED AND INSTALLED TO PREVENT FLOOD WATERS FROM OVERTOPPING COFFERDAM. DETERMINE LAKE BOTTOM ELEVATIONS AND DISCUSS WITH ENGINEER PRIOR TO COFFERDAM DESIGN.

FILE NAME = ...\\Sheets\\Pr_Spyr_sitplan.dgn	USER NAME = Kristin Tammons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	PROPOSED SITE PLAN F.A.U. ROUTE 8243	F.A.U. RTE. 8243	SECTION 09-00134-00-DR	COUNTY MONTGOMERY	TOTAL SHEETS 32	SHEET NO. 7
PLOT SCALE = 20,0000' / IN.	CHECKED - KLT/JJF	DATE - 3/2/2010	REVISED -			SCALE: 1"=20'	SHEET NO. 0F 32 SHEET\$	STA. 0+00 TO STA. 6+00	CONTRACT NO. 93537	
PLOT DATE = 3/3/2010									FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT	



0+00		0+50		1+00		1+50		2+00		2+50		3+00		3+50		4+00		4+50		5+00		5+50									
FILE NAME =		USER NAME = Kristi L Timmons		DESIGNED -		REVISED -		MONTGOMERY COUNTY, ILLINOIS								PLAN AND PROFILE S.N. 068-3232 NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE						F.A.U. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
j:\montgomerycounty\0902110 niemanville trail		draw\Sheets\P&P.dgn		DRAWN - GLD		REVISED -										8243		09-134-00-DR		MONTGOMERY		32		8							
		PLOT SCALE = 20.0000' IN.		CHECKED -		REVISED -																									
		PLOT DATE = 3/3/2010		DATE - 1/15/2010		REVISED -																									
										SCALE: 1" = 20'		SHEET NO. 8 OF 32 SHEETS		STA. 0+00.00		TO STA. 5+00.00		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT													
																		CONTRACT NO. 9353													



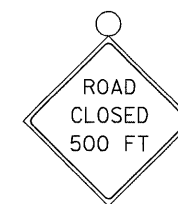
MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1.) ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007, THE DETAILS IN THESE PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 2.) ALL MAINTENANCE OF TRAFFIC SIGNS SHALL BE PROVIDED, PLACED AND MAINTAINED BY THE CONTRACTOR.
- 3.) THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO MINIMIZE THE TIME THAT THE CLOSURE IS IN EFFECT.
- 4.) THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE OF TRAFFIC PRIOR TO THE START OF WORK.
- 5.) LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 6.) ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE REMOVED OR COMPLETELY COVERED BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL COMPLETE.
- 7.) ALL ROAD CLOSURE SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.
- 8.) ALL ROAD CLOSURE SIGNING, EXCEPT REGULATORY SIGNS, SHALL HAVE BLACK LEGNEDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNS SHALL BE NEW OR LIKE NEW CONDITION.
- 9.) AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE CLOSURE SIGNAGE SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS PER ARTICLE 1106.02(d) OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND MONTGOMERY COUNTY SHALL BE USED.
- 10.) THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO STANDARD 701901. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS.
- 11.) CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT, ARTICLES 701 THRU 703 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- 12.) THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO WEEKS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL COORDINATE WITH THE CITY, COUNTY AND THE APPROPRIATE LOCAL AGENCIES.
- 13.) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY AND POINTS OF ACCESS DURING ALL PERIODS OF CONSTRUCTION.
- 14.) FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF 8 SANDBAGS PER BARRICADE.



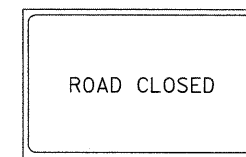
W20-3 (0) (4848)
POST MOUNTED
W/ LIGHT

SIGN PANEL No. 1



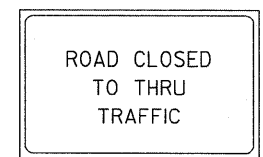
W20-3 (4848)
POST MOUNTED
W/ LIGHT

SIGN PANEL No. 2



R11-2 (4830)
BARRICADE MOUNTED
W/ LIGHTS

SIGN PANEL No. 3



R11-4 (6030)
BARRICADE MOUNTED
W/ LIGHTS

SIGN PANEL No. 4

FILE NAME =
...\\Sheets\\MOT_detour plan.dgn

USER NAME = Kristin Timmons

PLOT SCALE = 6000.0000' / IN.

PLOT DATE = 3/2/2010

DESIGNED - KLT/JJF

DRAWN - GLD

CHECKED - KLT/JJF

DATE - 3/2/2010

REVISED -

REVISED -

REVISED -

REVISED -

**NIEMANVILLE TRAIL
MONTGOMERY COUNTY, ILLINOIS**

**MAINTENANCE OF TRAFFIC
ROAD CLOSURE PLAN**

SCALE: N/A

SHEET NO. 9 OF 32 SHEETS

STA. N/A

TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8243	09-00134-00-DR	MONTGOMERY	32	9
CONTRACT NO. 93537				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square on the Northwest corner of the Northwest wing wall. Elev. = 667.71

Existing Structure: Structure No. 068-3232

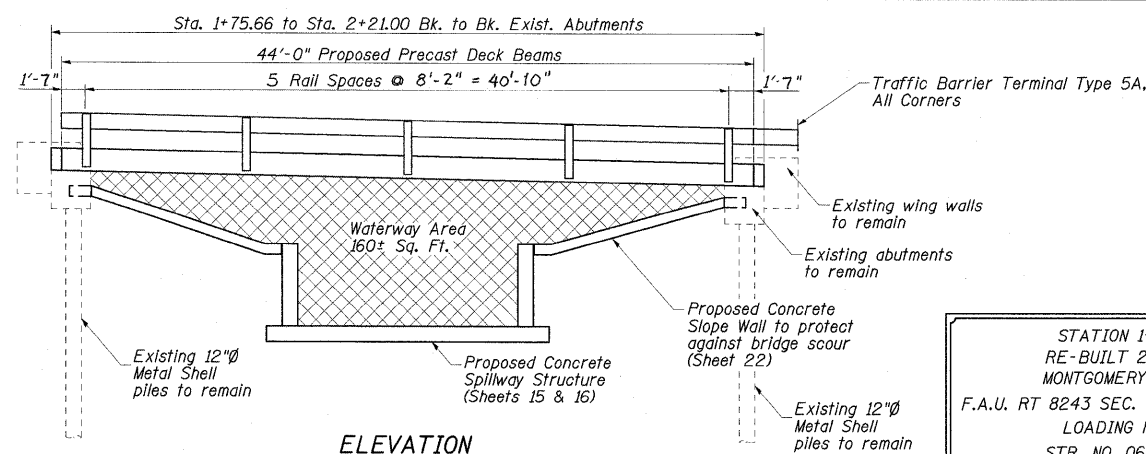
Built in 1979 as F.A.U. Rte. 8243, Sec. 77-00062-00-BR as a single span prestressed concrete deck beam bridge 45'-4" Bk. to Bk. of abutments. Concrete pile bent abutments. Concrete deck beams to be removed and replaced. Existing abutments and piling to remain in place.

Salvage existing abutments

BRIDGE

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Hot-Mix Asphalt Surface Course, Mix "C" N50	Ton	13
Removal of Existing Superstructure	Each	1
Bridge Rail Removal	Foot	88
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,232
Reinforcement Bars (Epoxy Coated)	Lbs.	200
Steel Railing, Type S-1	Foot	88
Name Plate	Each	1
Waterproofing Membrane System	Sq. Yd.	137
Portland Cement Mortar Fairing Course	Foot	264
Drill and Grout Bars	Each	56
Traffic Barrier Terminal, Type 5A	Each	4
Concrete Structures	Cu Yd	2.0

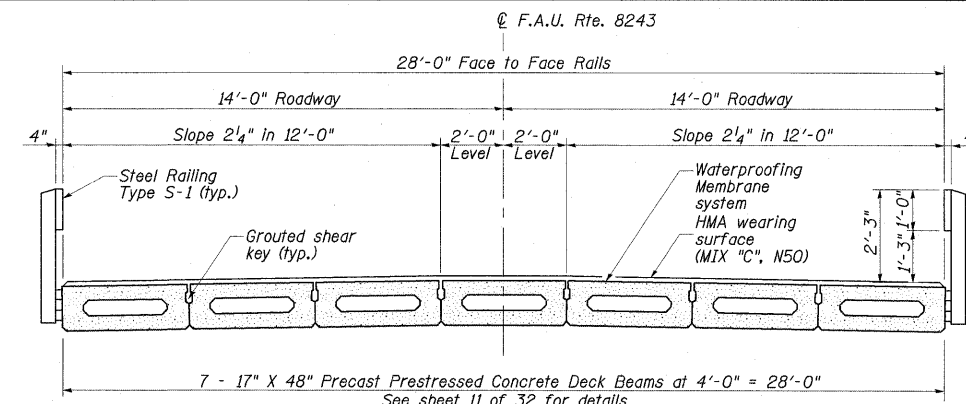


ELEVATION

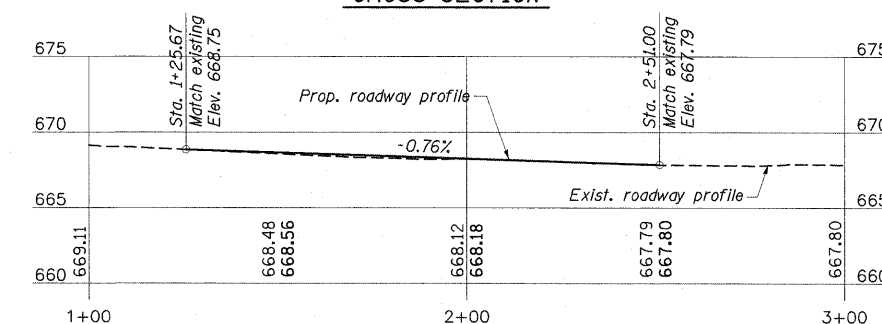
STATION 1+98.33
RE-BUILT 201 BY
MONTGOMERY COUNTY
F.A.U. RT 8243 SEC. 09-00134-00-DR
LOADING HL-93
STR. NO. 068-3232

NAME PLATE

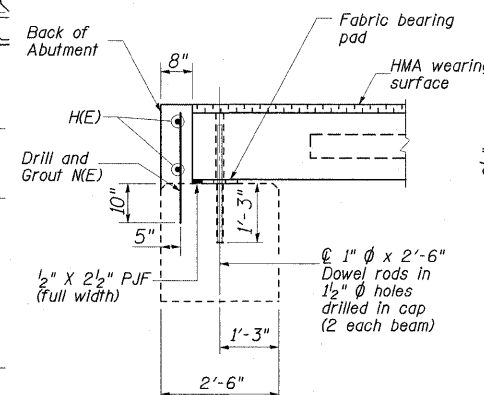
See Std. 515001
(Locate Name Plate on roadway face of rail at Southeast corner)



CROSS SECTION

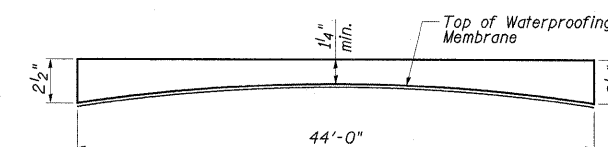


ROADWAY PROFILE



SECTION A-A

See sheet 11 of 32 for fabric bearing pad details.



ANTICIPATED HMA WEARING SURFACE PROFILE
(For information only)

BAR LIST

Bar	No.	Size	Length	Shape
H(E)	4	#4	27'-8"	
ME	56	#5	2'-2"	

HIGHWAY CLASSIFICATION

Functional Class:
ADT: 1465 (2010); 2180 (2030)
ADTT: 30 (2010); 44 (2030)

DESIGN SPECIFICATIONS

AASHTO LRFD 4th Edition with
2008 & 2009 Interims
(Proposed superstructure)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.5

LOADING HL-93

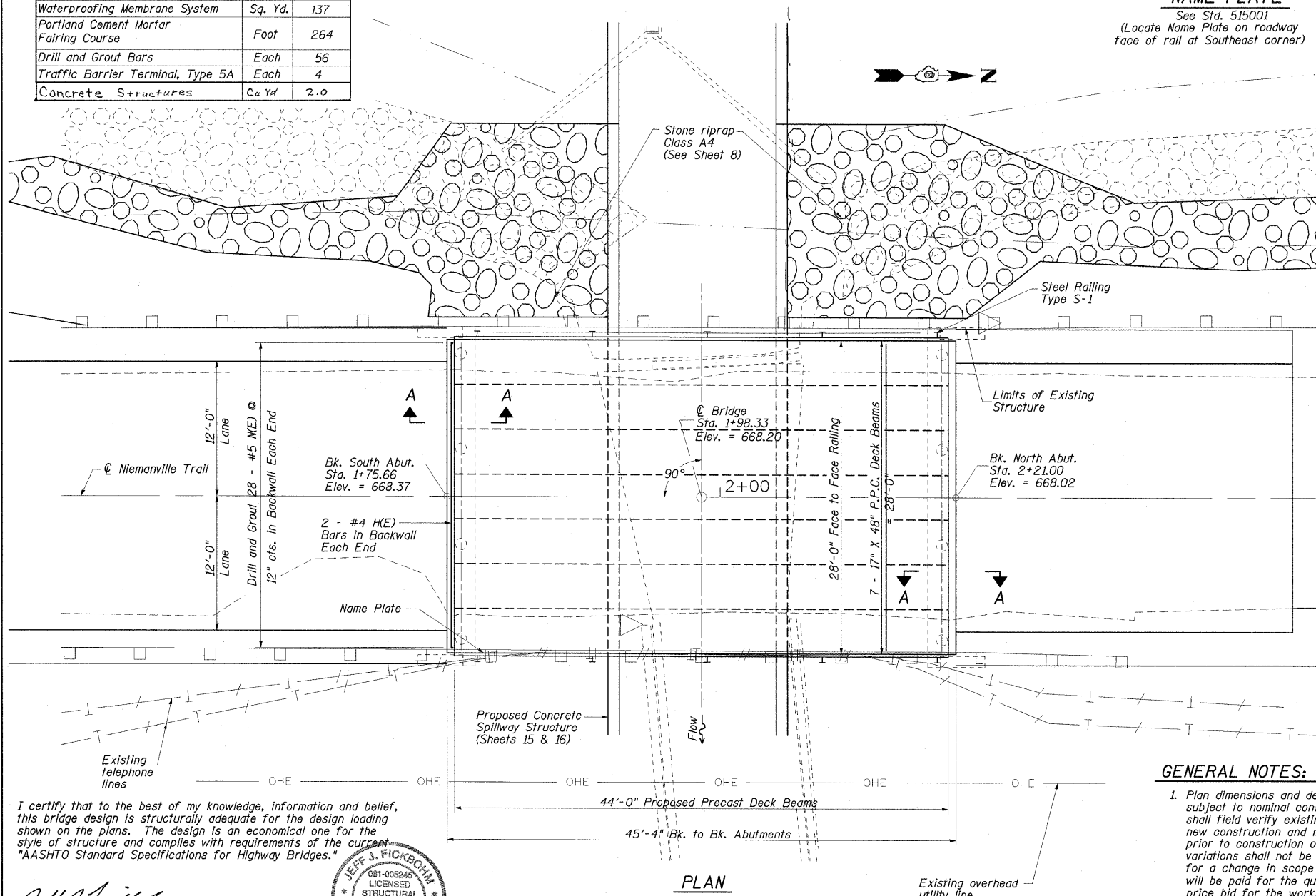
LRFD HL-93 (Proposed superstructure)
HS-20-44 (Existing substructure)
Allow 25 psf for future wearing surface.

DESIGN STRESSES

f'c = 6,000 psi (Prestressed Beams)
f'cl = 5,000 psi (Prestressed Beams)
f's = 270,000 psi (Prestressed Strands)
f'si = 201,960 psi (Prestressed Strands)

GENERAL NOTES:

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Existing name plate shall be cleaned and relocated next to new name plate. Cost included with name plates.
- Reinforcement bars designated (E) shall be Epoxy Coated.



PLAN

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

Jeff J. Fickbohm, P.E., S.E.
Illinois Licensed Structural Engineer
License Number: 081-005245
Expiration Date: November 30, 2010



(Sheets 10 - 24)

NIEMANVILLE TRAIL
MONTGOMERY COUNTY, ILLINOIS

GENERAL PLAN AND ELEVATION
STATION 1+98.33 S.N. 068-3232
NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE

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...draw\Sheets\GP&E_Bridge.dgn

USER NAME = Kristin Tummons
PLOT SCALE = 6.0000 / 1 IN.
PLOT DATE = 3/3/2010

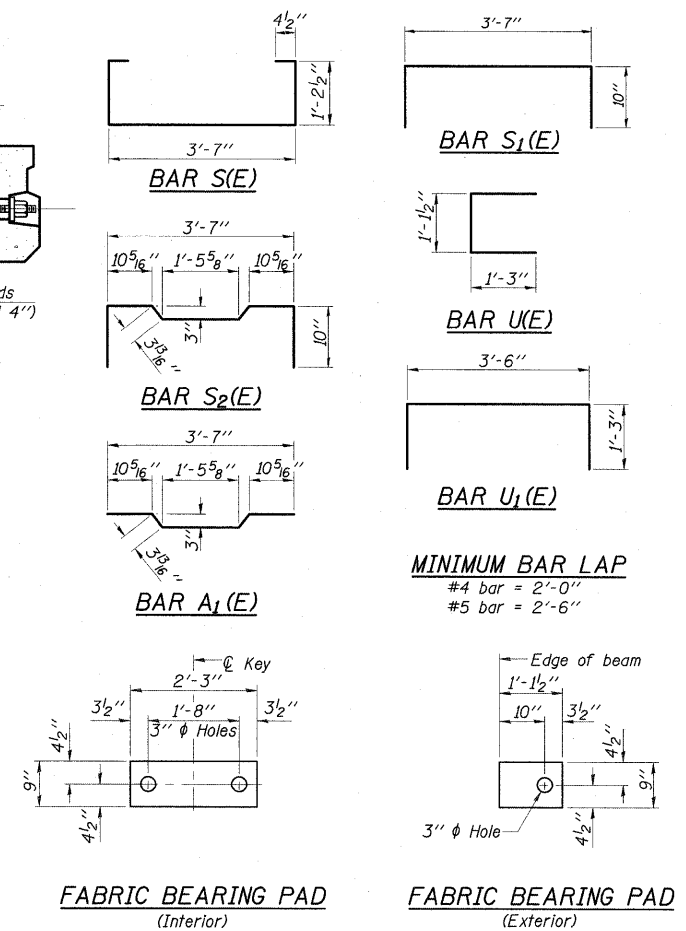
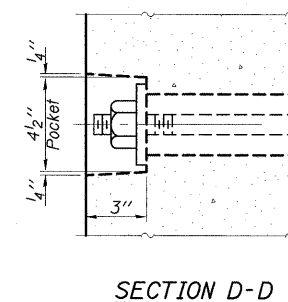
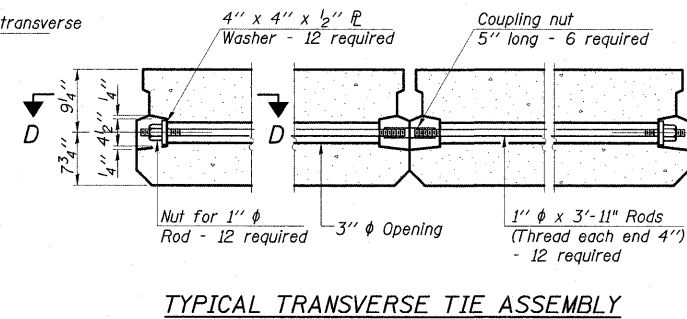
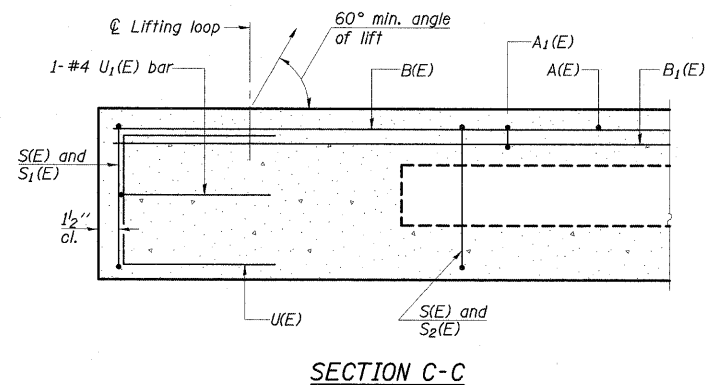
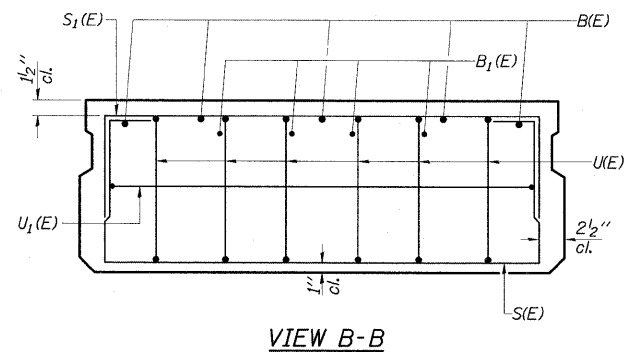
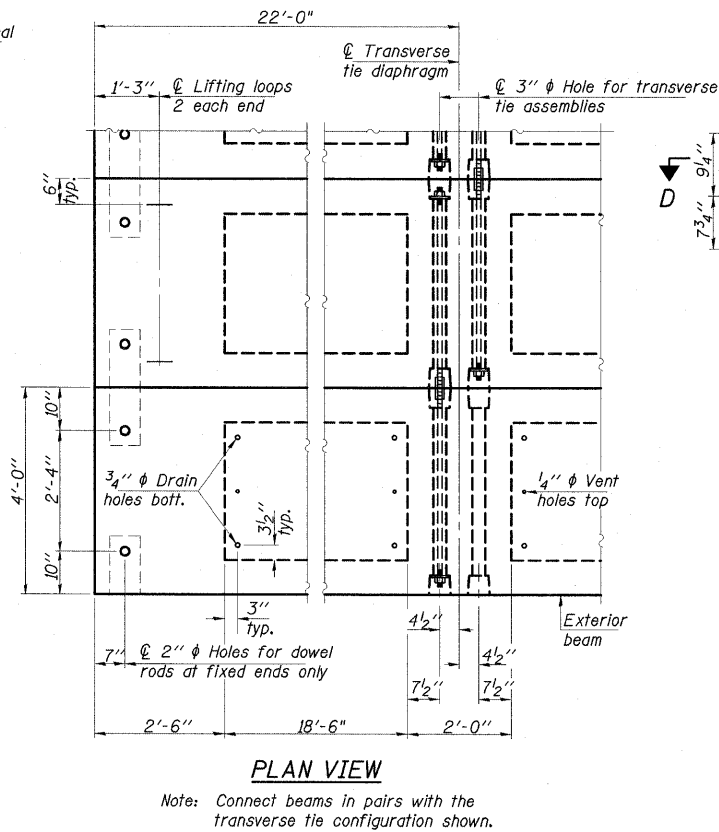
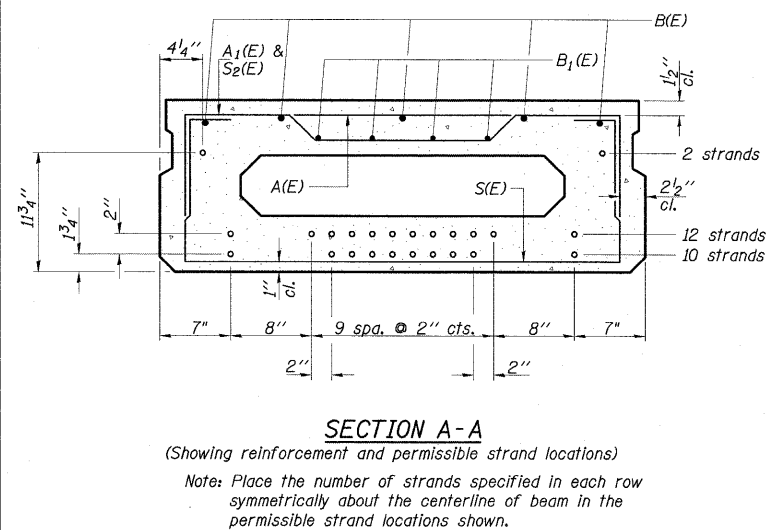
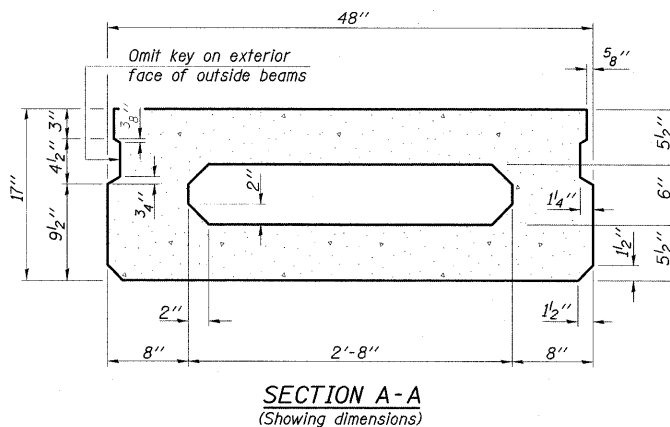
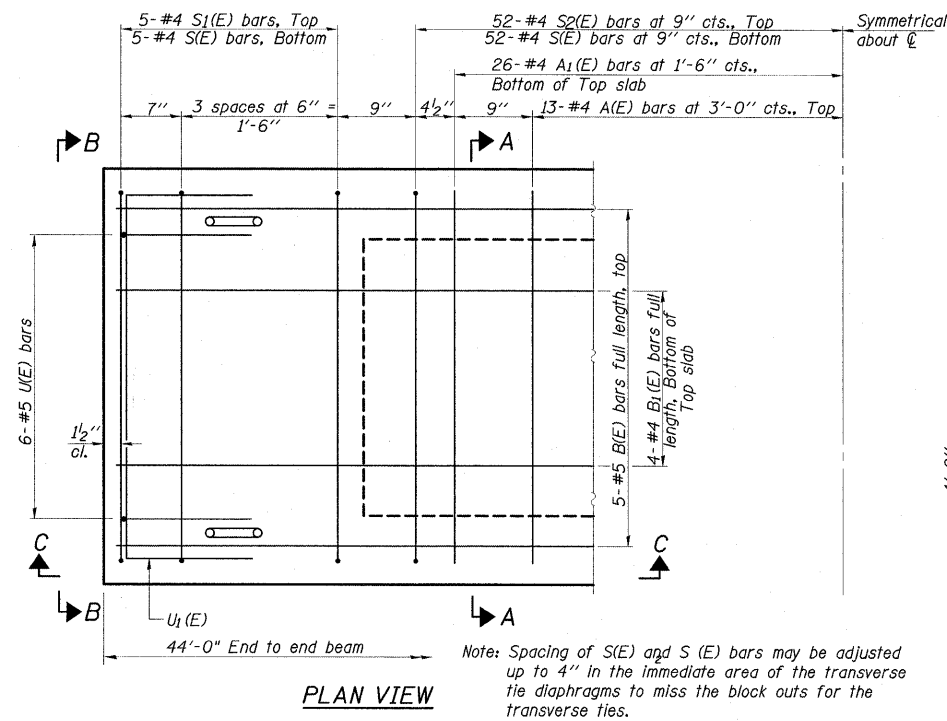
DESIGNED - CJW/JJF
DRAWN - GLD
CHECKED - WLB/JJF
DATE - 3/2/2010

REVISED -
REVISED -
REVISED -
REVISED -

SCALE: SHEET NO. 10 OF 32 SHEETS STA. TO STA.

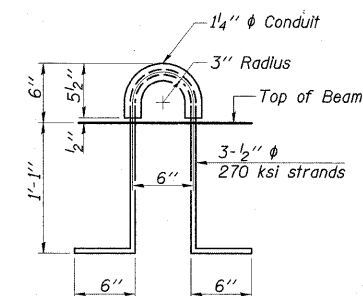
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8243	09-00134-00-DR	MONTGOMERY	32	10
CONTRACT NO. 93537				

FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT



BAR LIST ONE BEAM ONLY
(For information only Reinforcement bars
included in cost for P.P.C. Deck Beams)

Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	—
A ₁ (E)	26	#4	3'-10"	—
B(E)	5	#5	43'-9"	—
B ₁ (E)	8	#4	22'-11"	—
S(E)	62	#4	6'-9"	┌┐
S ₁ (E)	10	#4	5'-3"	┌┐
S ₂ (E)	52	#4	5'-6"	┌┐
U(E)	12	#5	3'-8"	┌┐
U ₁ (E)	2	#4	6'-0"	┌┐



<u>BILL OF MATERIAL</u>		
Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1232

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

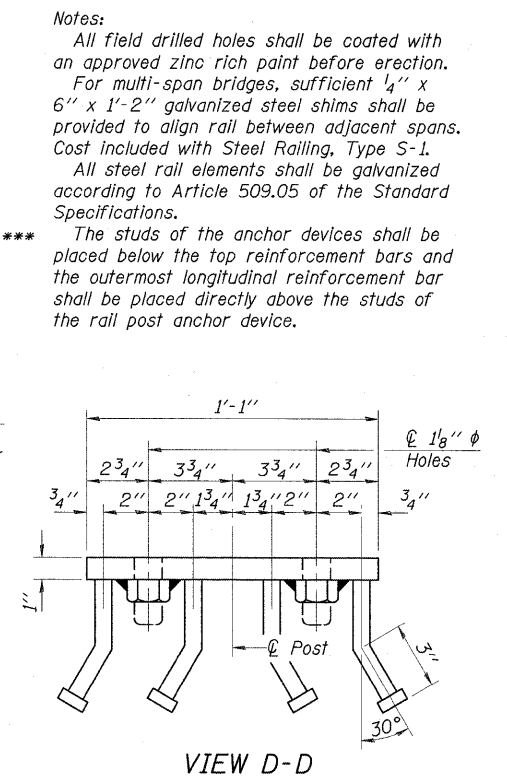
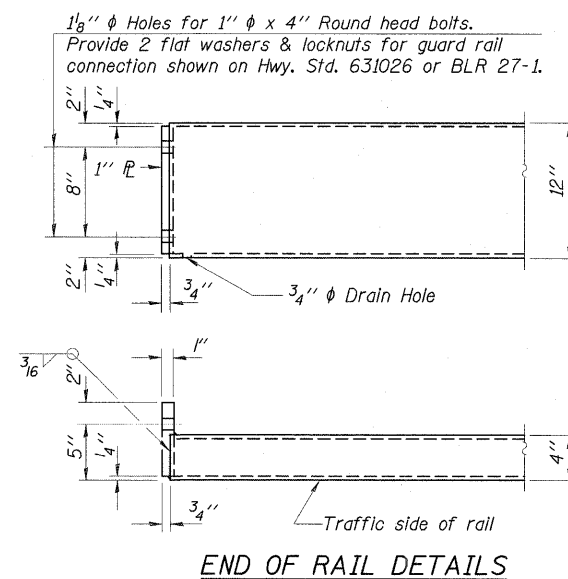
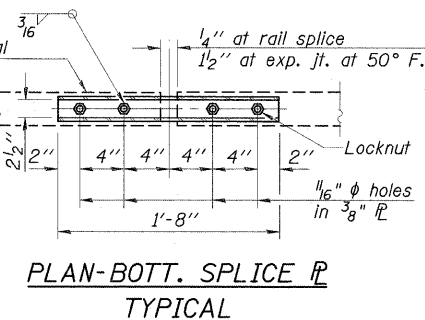
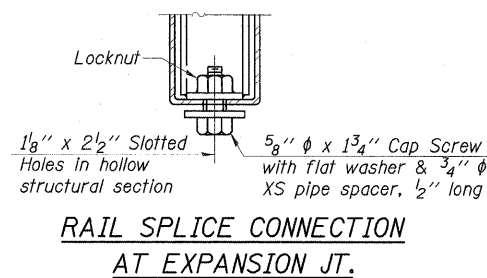
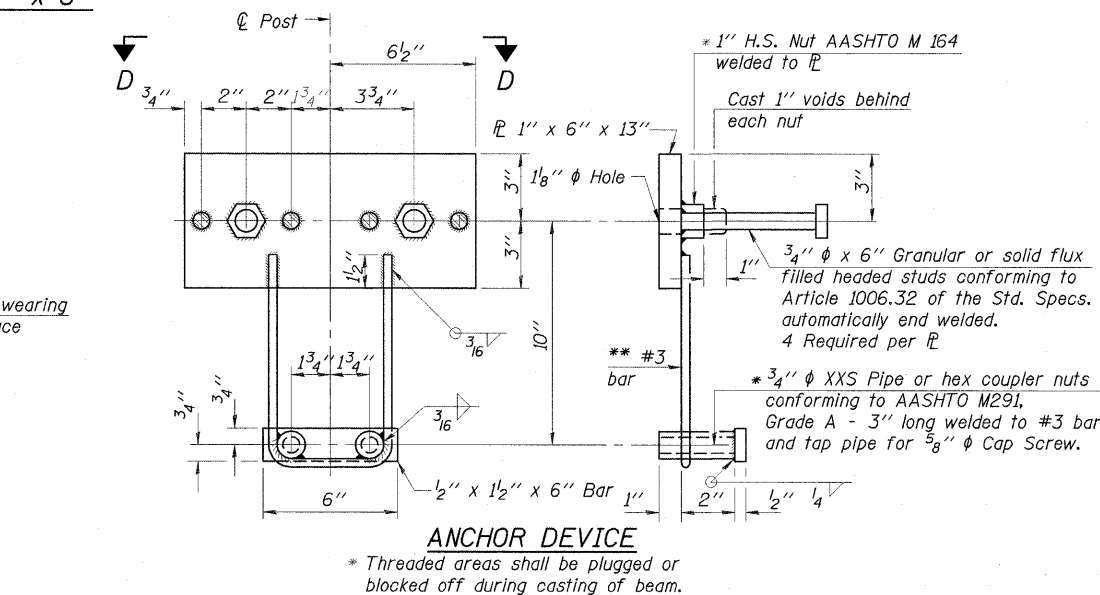
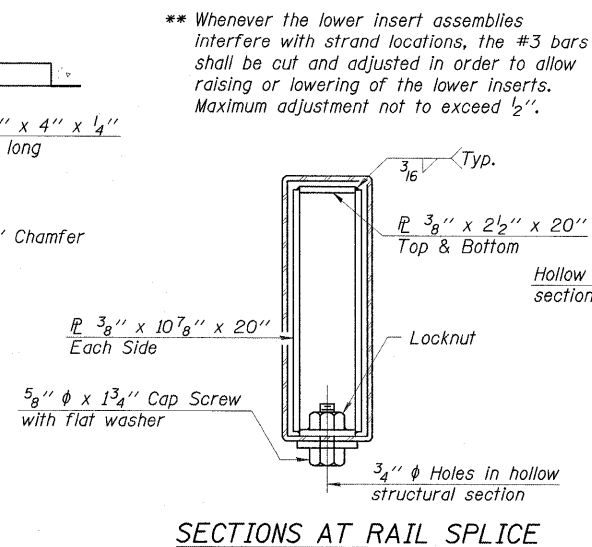
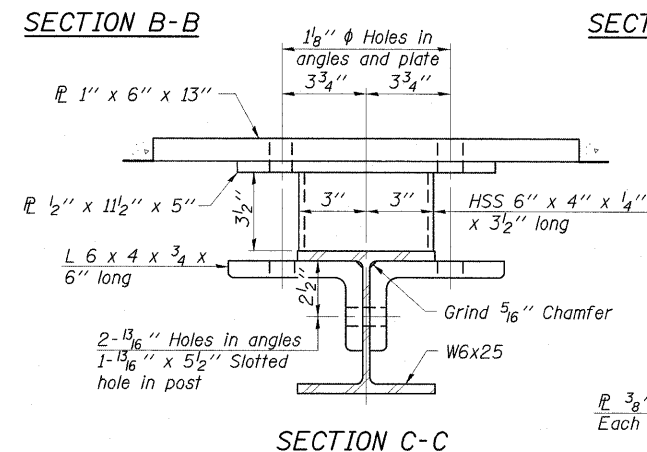
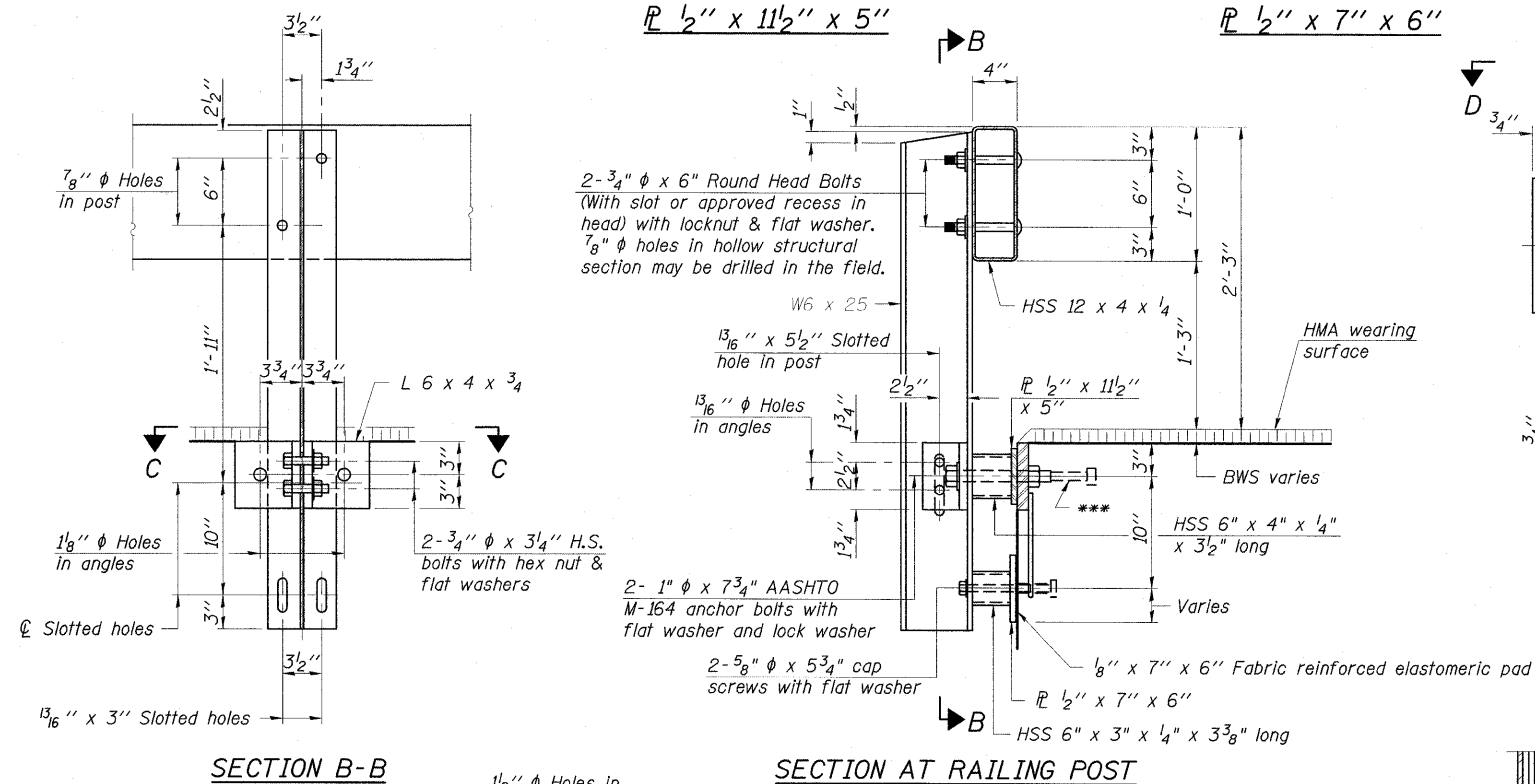
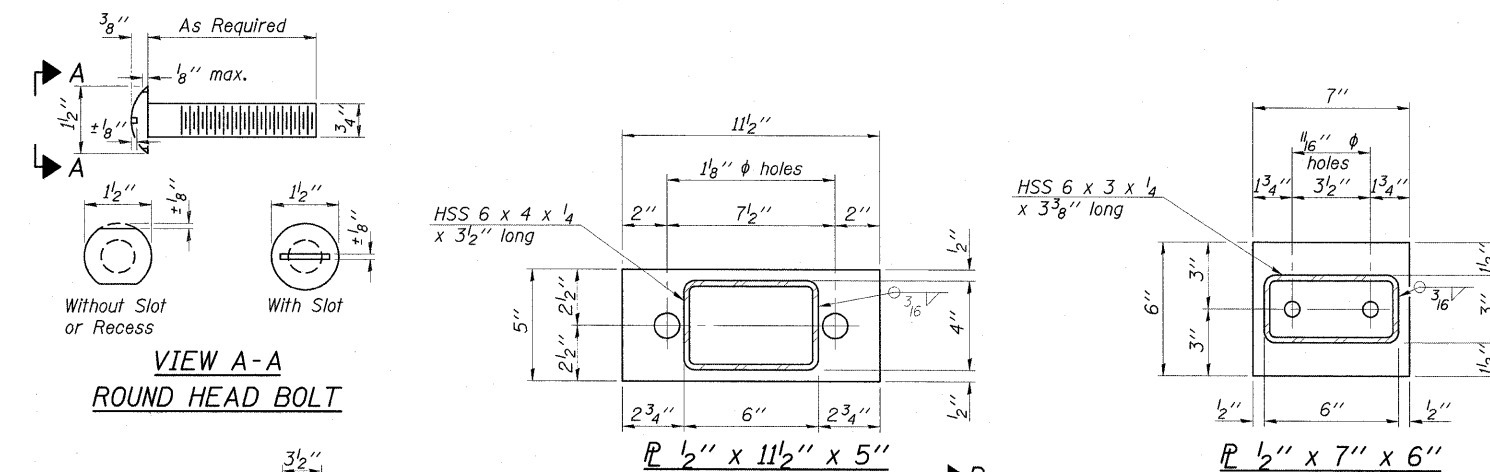
A minimum 2 $\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'_c , shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'_c , shall be 5000 psi.

Railpost anchor devices to be cast into exterior face of outside beams as specified elsewhere.



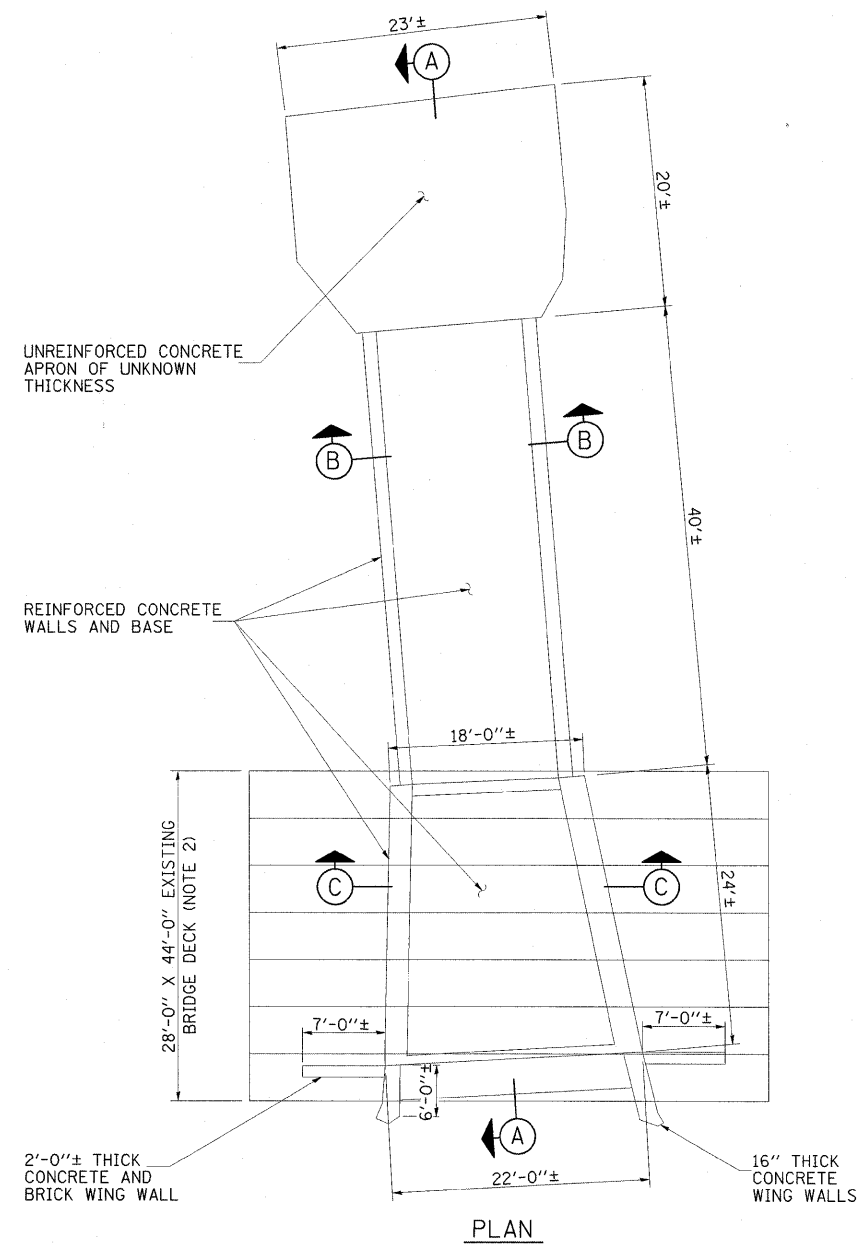
Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

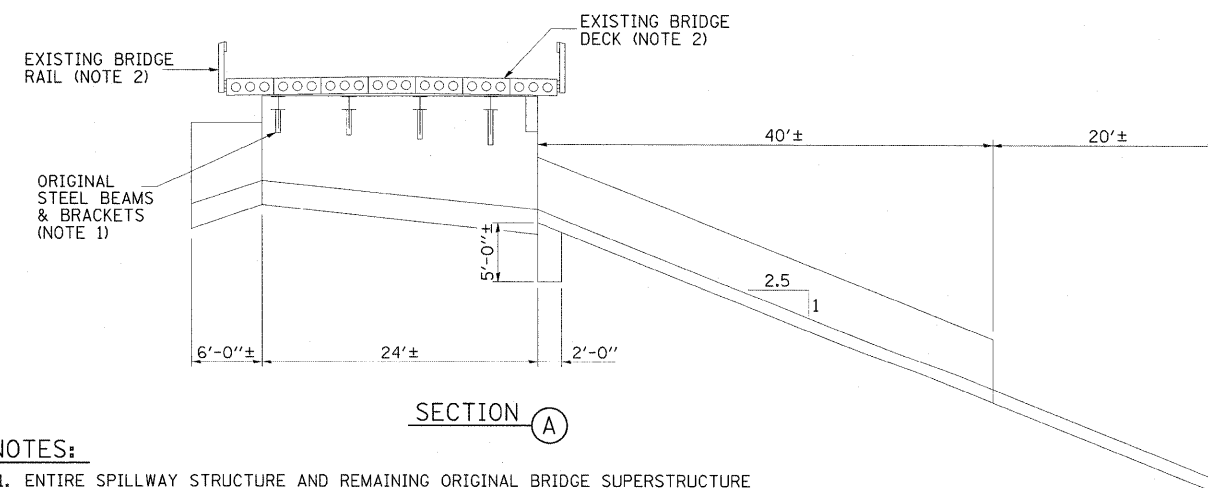
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

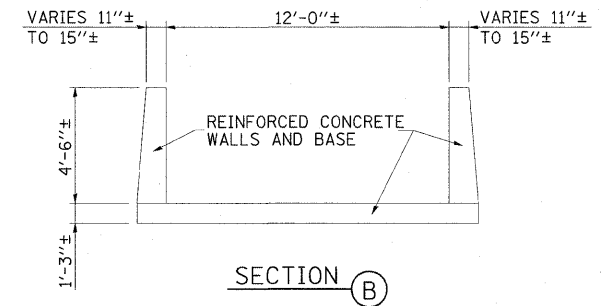
Item	Unit	Quantity
Steel Railing, Type S-1	Foot	88



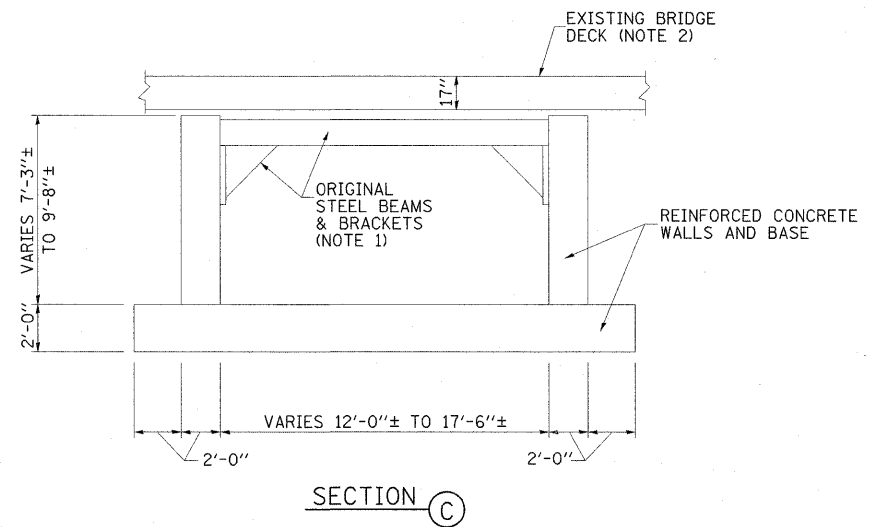
PLAN



SECTION A



SECTION B

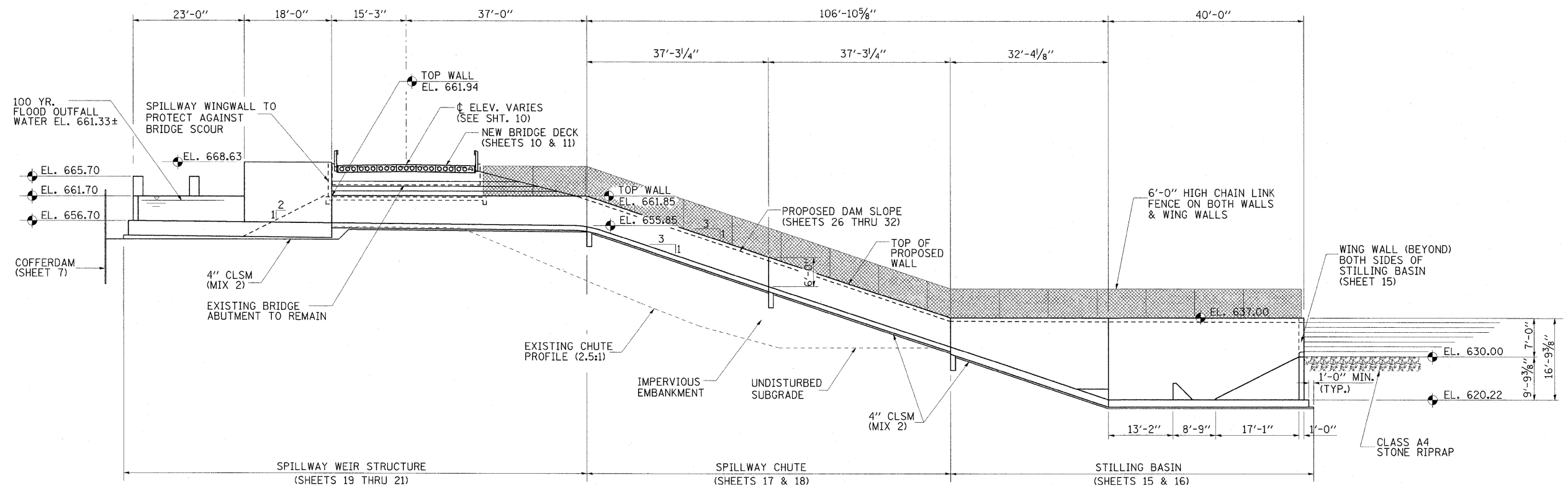


SECTION C

NOTES:

1. ENTIRE SPILLWAY STRUCTURE AND REMAINING ORIGINAL BRIDGE SUPERSTRUCTURE ELEMENTS SHALL BE INCLUDED IN LUMP SUM PAYMENT FOR REMOVAL OF EXISTING STRUCTURES.
2. EXISTING PRESTRESSED CONCRETE BRIDGE DECK BEAMS AND BRIDGE RAIL SHALL BE REMOVED. EXISTING PILE BENT ABUTMENTS SHALL REMAIN IN PLACE TO SUPPORT NEW BRIDGE DECK.

FILE NAME = ...\\Removals.ExSpwy.BrDeck.P&S.dgn	USER NAME = Kristin Timmons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	EXISTING SPILLWAY AND BRIDGE DECK REMOVALS PLAN AND SECTIONS F.A.U. ROUTE 8243			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 8,000'0" / IN.	DRAWN - GLD	REVISED -					8243	09-00134-00-DR	MONTGOMERY	32	13
	PLOT DATE = 3/3/2010	CHECKED - KLT/JJF	REVISED -		CONTRACT NO. 98537							
		DATE - 3/2/2010	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							
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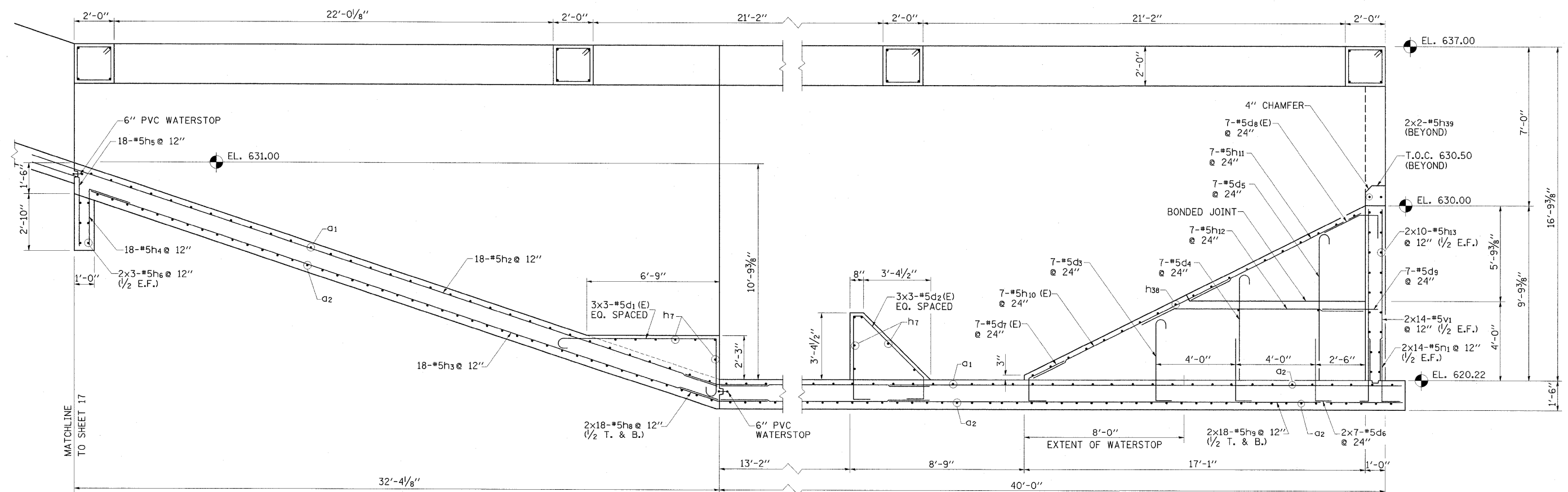
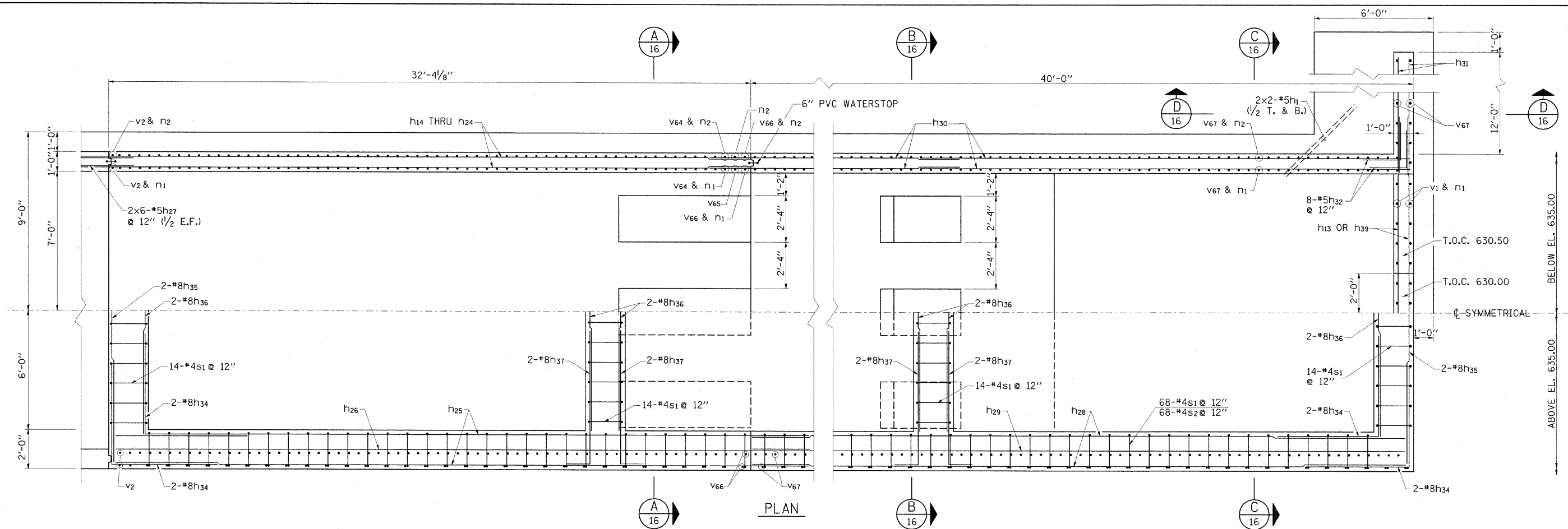
PROPOSED SPILLWAY PROFILE

STRUCTURE
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YD.	491.1
REINFORCEMENT BARS	POUND	71,440
REINFORCEMENT BARS EPOXY COATED	POUND	290
6" PVC WATERSTOP	FOOT	521
SLUICE GATE	EACH	1
CONTROLLED LOW-STRENGTH MATERIAL	CU. YD.	224.1
STRUCTURE EXCAVATION	CU. YD.	565

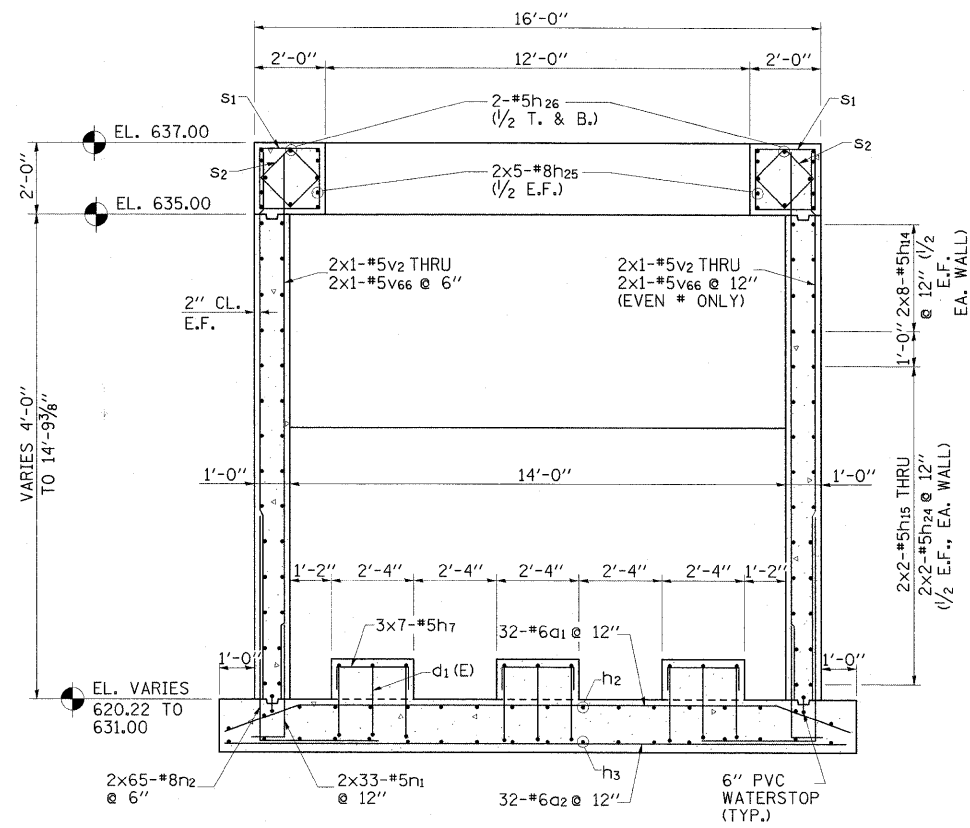
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION	CU. YD.	565
CONTROLLED LOW STRENGTH MATERIAL (MIX 2)	CU. YD.	64.1

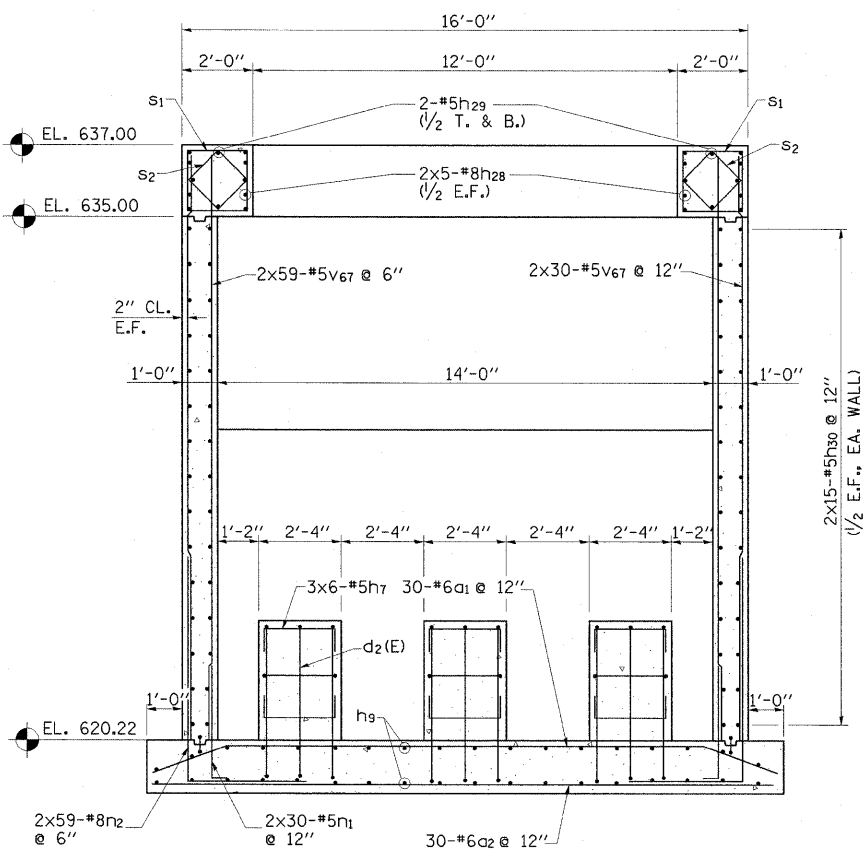


SECTION

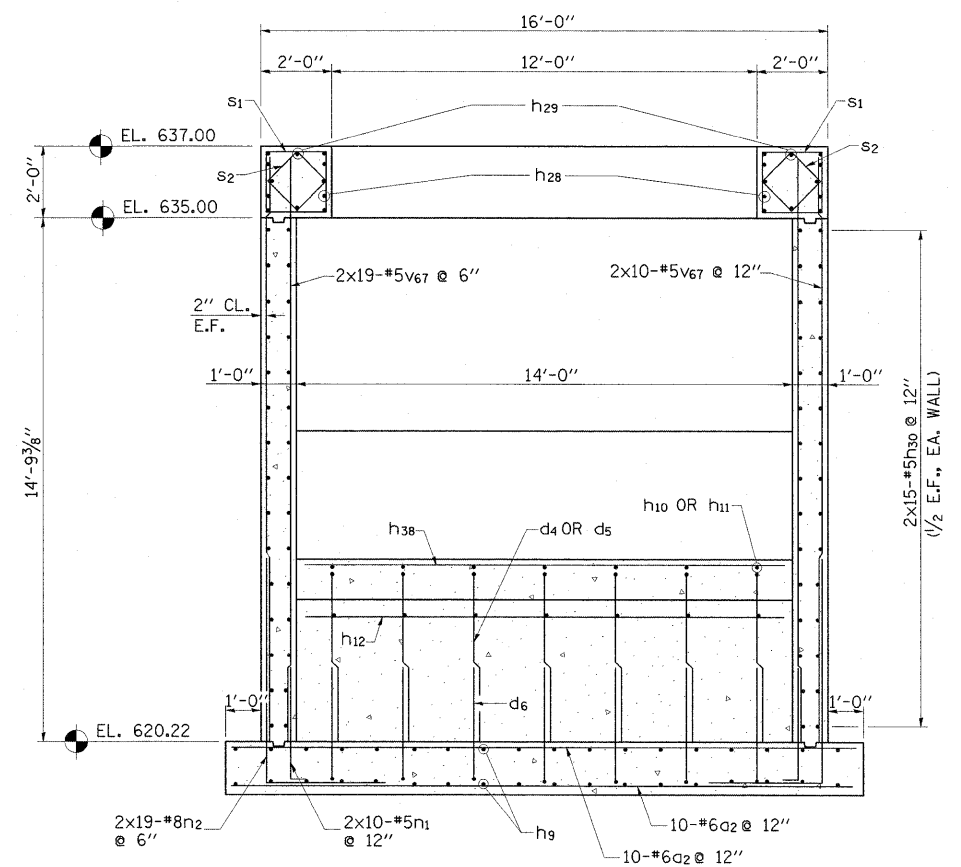
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		DRAWN - GLD	REVISED -			8243	09-00134-00-DR	MONTGOMERY	32	15	
PLOT SCALE = 2.6656' / IN.		CHECKED - KLT/JJF	REVISED -			CONTRACT NO. 93537					
PLOT DATE = 3/3/2010		DATE - 3/2/2010	REVISED -			SCALE: N/A	SHEET NO. 15 OF 32 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 6 ILLINOIS		FED. AID PROJECT



SECTION A
15



SECTION B
15



SECTION C
15

SPILLWAY STILLING BASIN
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1	62	6	17'-11"	
a2	82	6	17'-6"	
d1(E)	9	5	12'-0"	
d2(E)	9	5	12'-0"	
d3	7	5	5'-7"	
d4	7	5	5'-11"	
d5	7	5	7'-11"	
d6	14	5	4'-1"	
d7(E)	7	5	4'-1"	
d8(E)	7	5	4'-2"	
d9	7	5	3'-10"	
h1	8	5	5'-0"	
h2	18	5	36'-3"	
h3	18	5	33'-2"	
h4	18	5	5'-0"	
h5	18	5	5'-10"	
h6	6	5	17'-6"	
h7	39	5	3'-8"	
h8	36	5	4'-7"	
h9	36	5	40'-9"	
h10	7	5	11'-1"	
h11	7	5	9'-8"	
h12	7	5	11'-9"	
h13	20	5	18'-6"	
h14	16	5	32'-0"	
h15	4	5	30'-2"	
h16	4	5	27'-2"	
h17	4	5	24'-2"	
h18	4	5	21'-2"	
h19	4	5	18'-2"	
h20	4	5	15'-2"	
h21	4	5	12'-2"	
h22	4	5	9'-2"	

BILL OF MATERIAL (CONT.)

BAR	NO.	SIZE	LENGTH	SHAPE
h23	4	5	6'-2"	
h24	4	5	3'-2"	
h25	20	8	37'-4"	
h26	4	5	34'-3"	
h27	24	5	4'-6"	
h28	20	8	39'-9"	
h29	4	5	39'-9"	
h30	120	5	21'-0"	
h31	68	5	11'-8"	
h32	32	5	4'-6"	
h33	24	5	14'-0"	
h34	16	8	10'-6"	
h35	4	8	15'-8"	
h36	8	8	12'-4"	
h37	16	8	8'-4"	
h38	21	5	13'-8"	
h39	4	5	7'-3"	
n1	174	5	4'-3"	
n2	286	8	11'-7"	
n3	24	6	5'-10"	
n4	24	5	8'-0"	
S1	192	4	7'-5"	
S2	136	4	5'-5"	
v1	28	5	9'-7"	
v2	4	5	5'-10"	
v3	2	5	6'-0"	
v4	4	5	6'-2"	
v5	2	5	6'-4"	
v6	4	5	6'-6"	
v7	2	5	6'-8"	
v8	4	5	6'-10"	
v9	2	5	7'-0"	

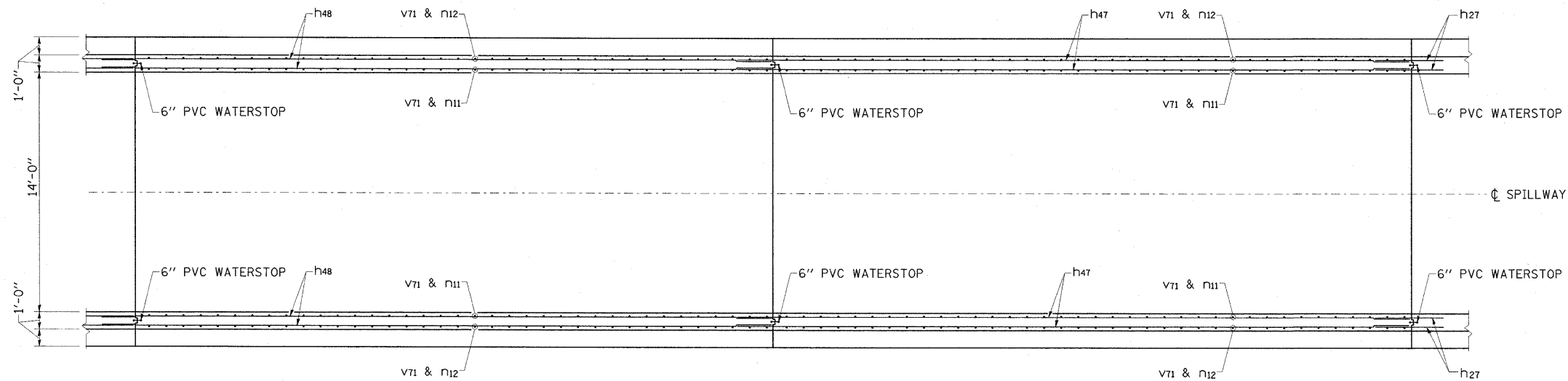
BILL OF MATERIAL (CONT.)

BAR	NO.	SIZE	LENGTH	SHAPE
v10	4	5	7'-2"	
v11	2	5	7'-4"	
v12	4	5	7'-6"	
v13	2	5	7'-8"	
v14	4	5	7'-10"	
v15	2	5	8'-0"	
v16	4	5	8'-2"	
v17	2	5	8'-4"	
v18	4	5	8'-6"	
v19	2	5	8'-8"	
v20	4	5	8'-10"	
v21	2	5	9'-0"	
v22	4	5	9'-2"	
v23	2	5	9'-4"	
v24	4	5	9'-6"	
v25	2	5	9'-8"	
v26	4	5	9'-10"	
v27	2	5	10'-0"	
v28	4	5	10'-2"	
v29	2	5	10'-4"	
v30	4	5	10'-6"	
v31	2	5	10'-8"	
v32	4	5	10'-10"	
v33	2	5	11'-0"	
v34	4	5	11'-2"	
v35	2	5	11'-4"	
v36	4	5	11'-6"	
v37	2	5	11'-8"	
v38	4	5	11'-10"	
v39	2	5	12'-0"	
v40	4	5	12'-2"	
v41	2	5	12'-4"	
v42	4	5	12'-6"	
v43	2	5	12'-8"	
v44	4	5	12'-10"	

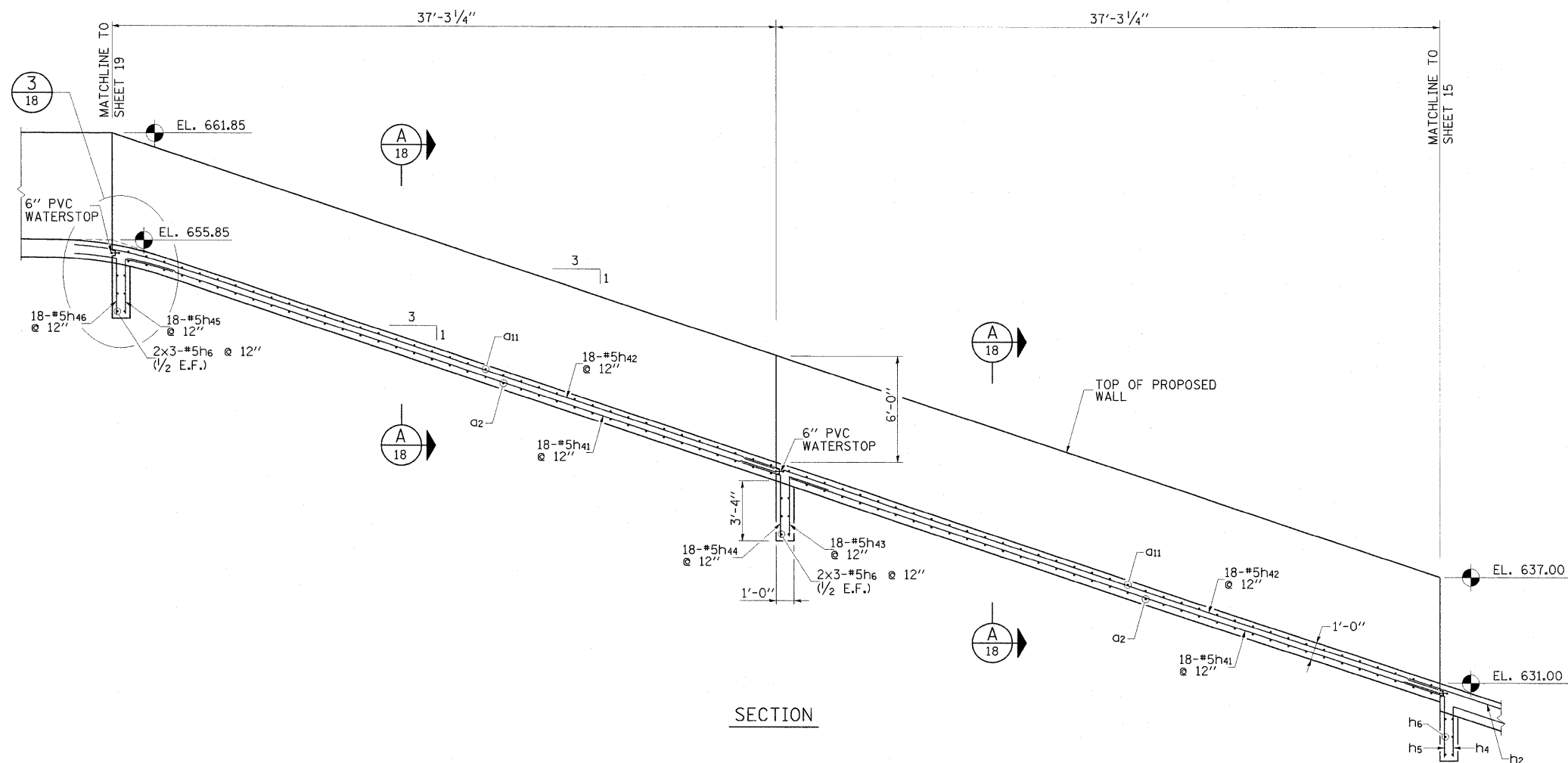
BILL OF MATERIAL (CONT.)

BAR	NO.	SIZE	LENGTH	SHAPE
v45	2	5	13'-0"	
v46	4	5	13'-2"	
v47	2	5	13'-4"	
v48	4	5	13'-6"	
v49	2	5	13'-8"	
v50	4	5	13'-10"	
v51	2	5	14'-0"	
v52	4	5	14'-2"	
v53	2	5	14'-4"	
v54	4	5	14'-6"	
v55	2	5	14'-8"	
v56	4	5	14'-10"	
v57	2	5	15'-0"	
v58	4	5	15'-2"	
v59	2	5	15'-4"	
v60	4	5	15'-6"	
v61	2	5	15'-8"	
v62	4	5	15'-10"	
v63	2	5	16'-0"	
v64	4	5	16'-2"	
v65	2	5	16'-4"	
v66	4	5	16'-6"	
v67	284	5	16'-7"	

SEE SHEET 23 OF 32 FOR BAR BEND DETAILS

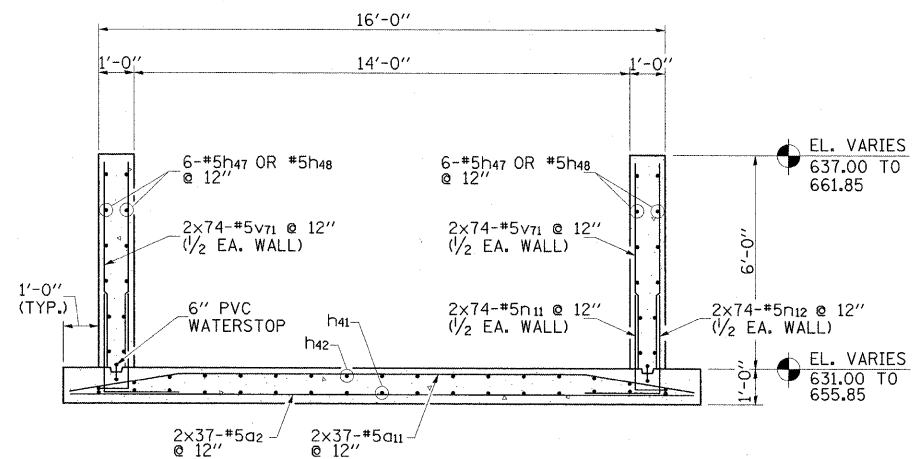


PLAN

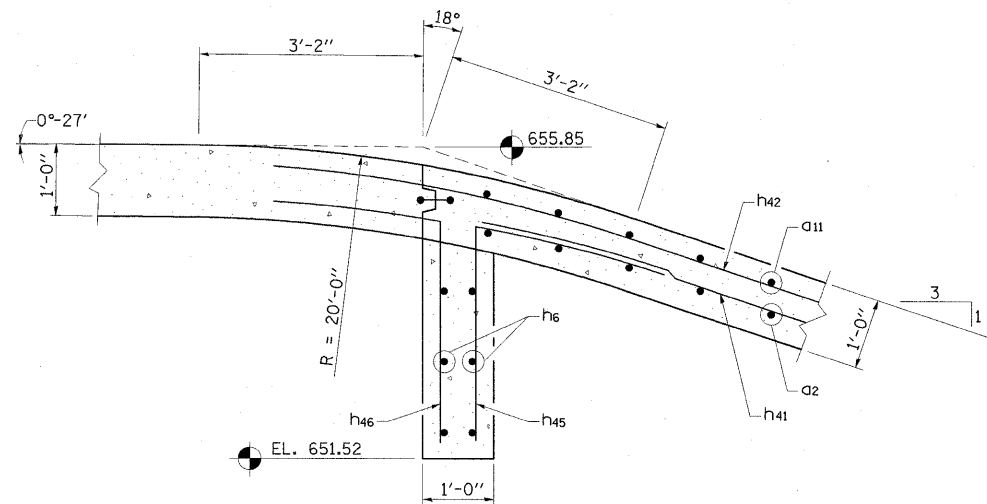


SECTION

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PLOT SCALE = 4.0000' / 1" IN.	CHECKED - KLT/JJF	DATE - 3/2/2010	REVISED -		SCALE: N/A	SHEET NO. 17 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 93537			
PLOT DATE = 3/3/2010									FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT			



SECTION A
17

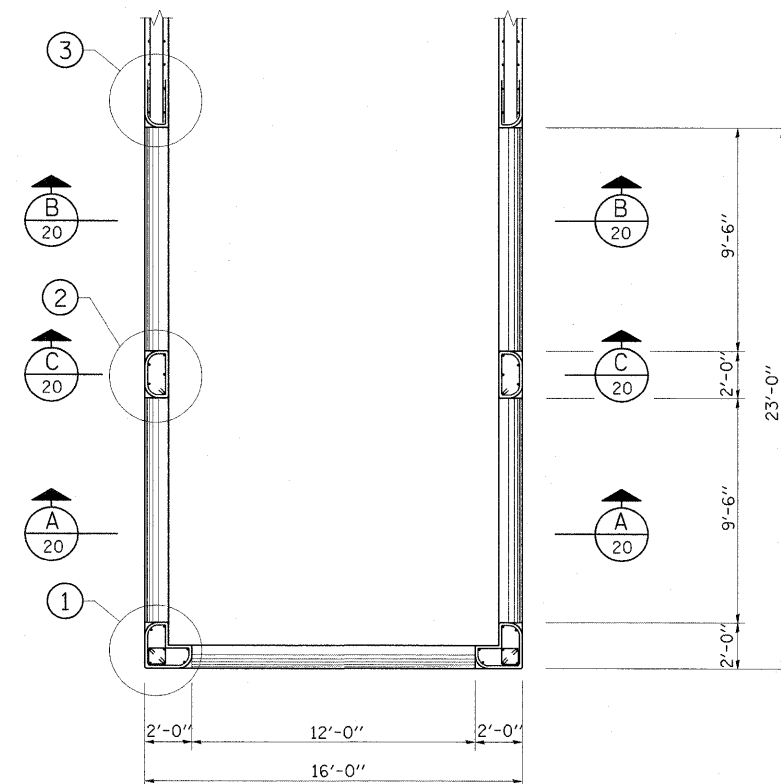
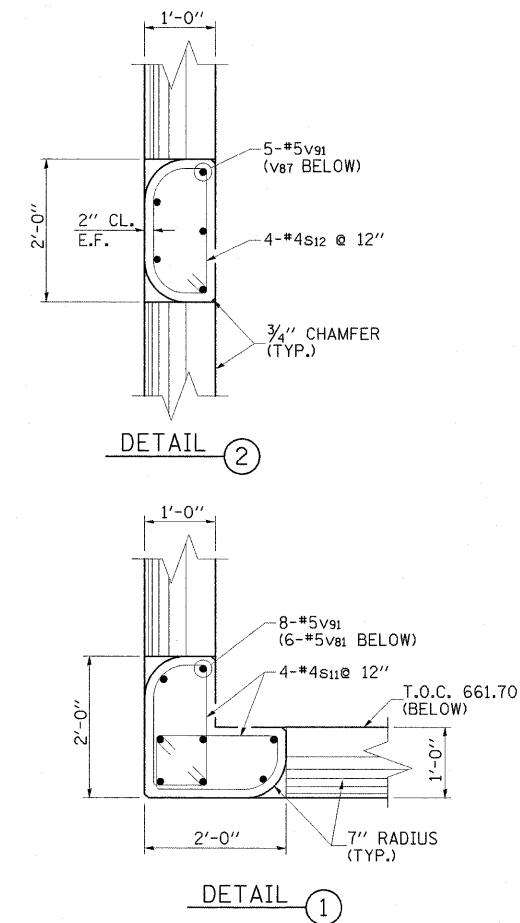
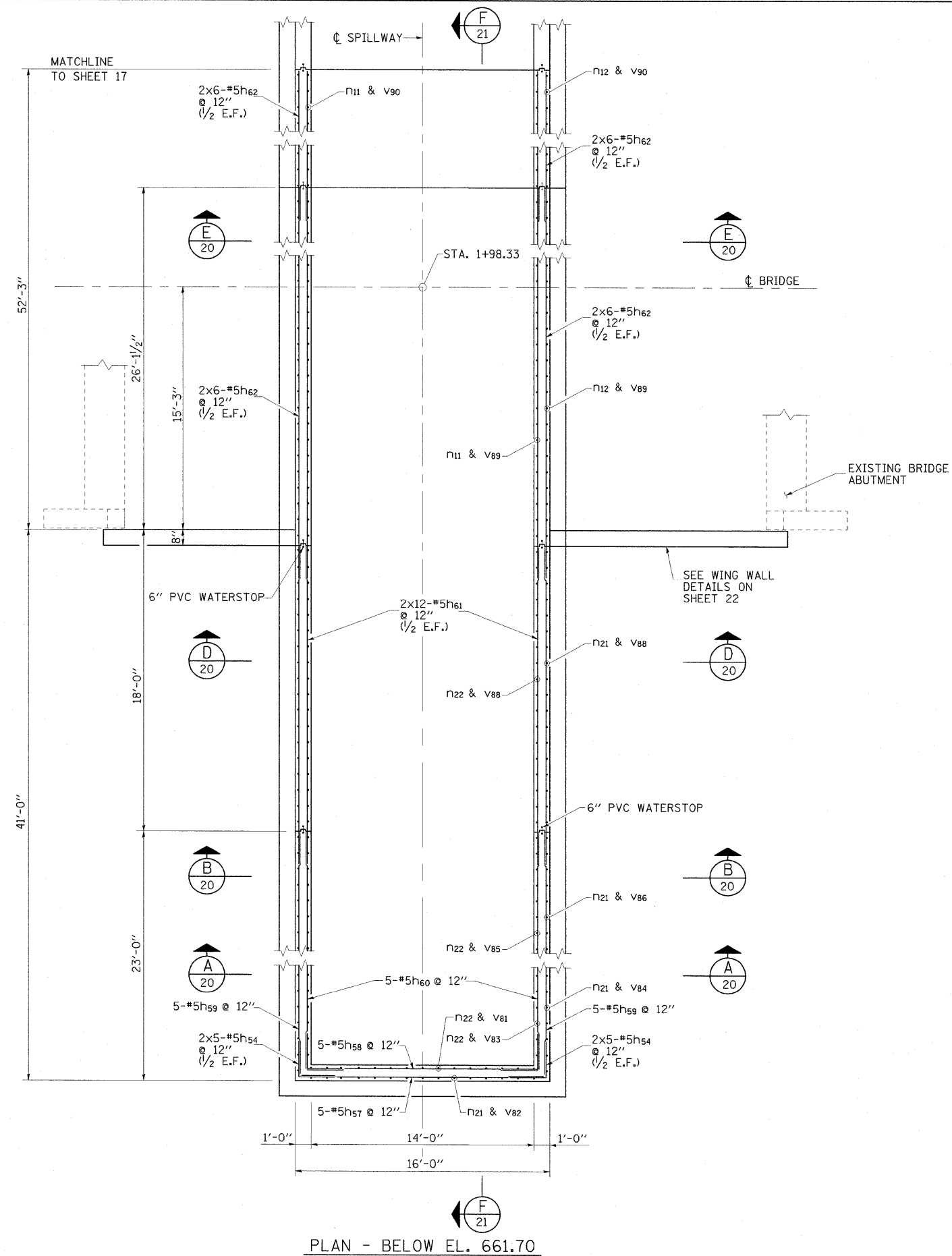


DETAIL 3
17

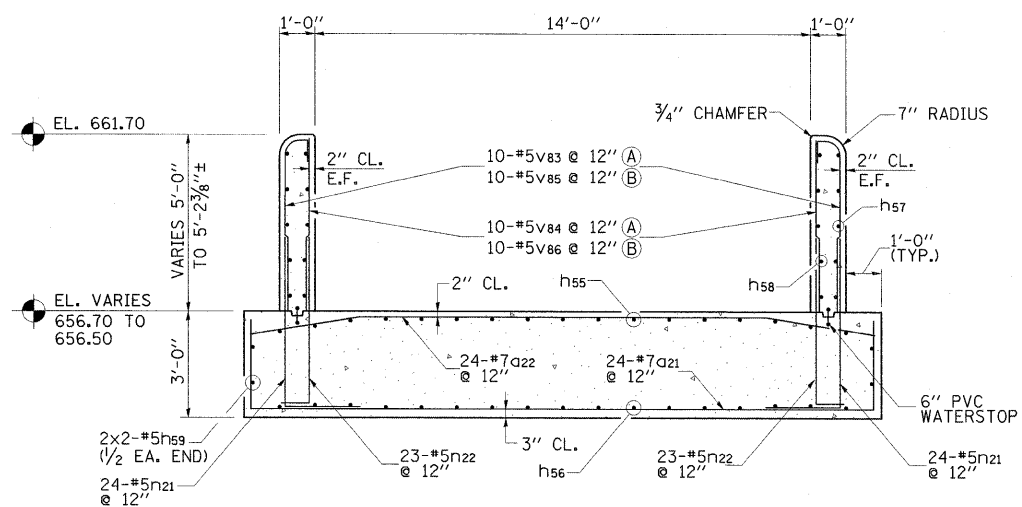
SPILLWAY CHUTE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a2	74	6	17'-6"	—
a11	74	5	17'-9"	—
h6	12	5	17'-6"	—
h41	36	5	38'-6"	—
h42	36	5	41'-4"	—
h43	18	5	5'-7"	└
h44	18	5	5'-11"	└
h45	18	5	5'-5"	└
h46	18	5	5'-7"	└
h47	24	5	41'-4"	—
h48	24	5	41'-4"	—
n11	148	5	3'-10"	└
n12	148	5	5'-3"	└
v71	296	5	5'-10"	—
ITEM			UNIT	QUANTITY
CONCRETE STRUCTURES			CU. YD.	87.3
REINFORCEMENT BARS			POUND	12,240

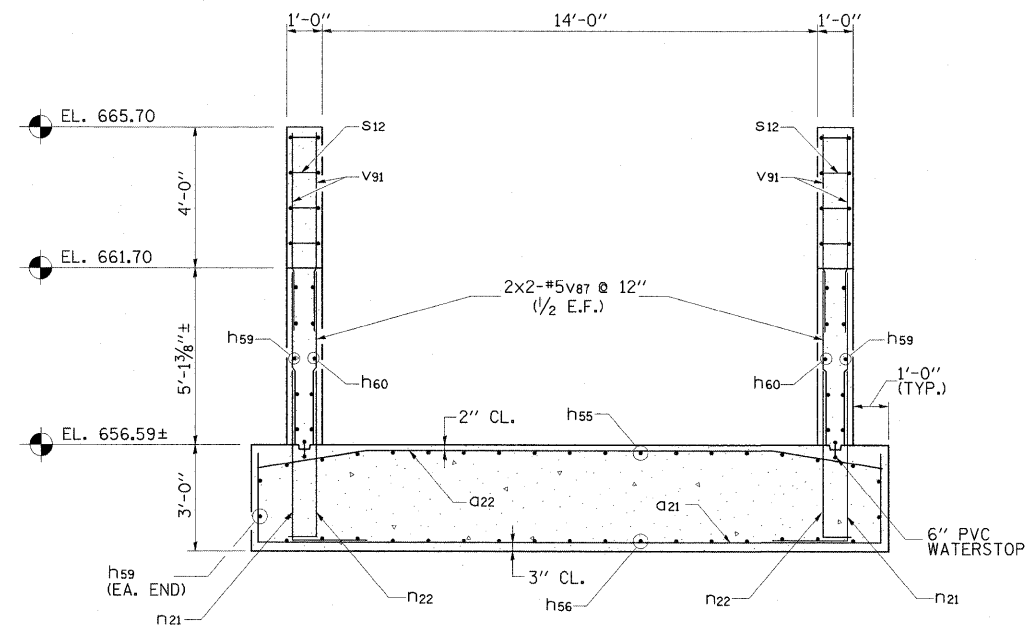
SEE SHEET 23 OF 32 FOR BAR BEND DETAILS



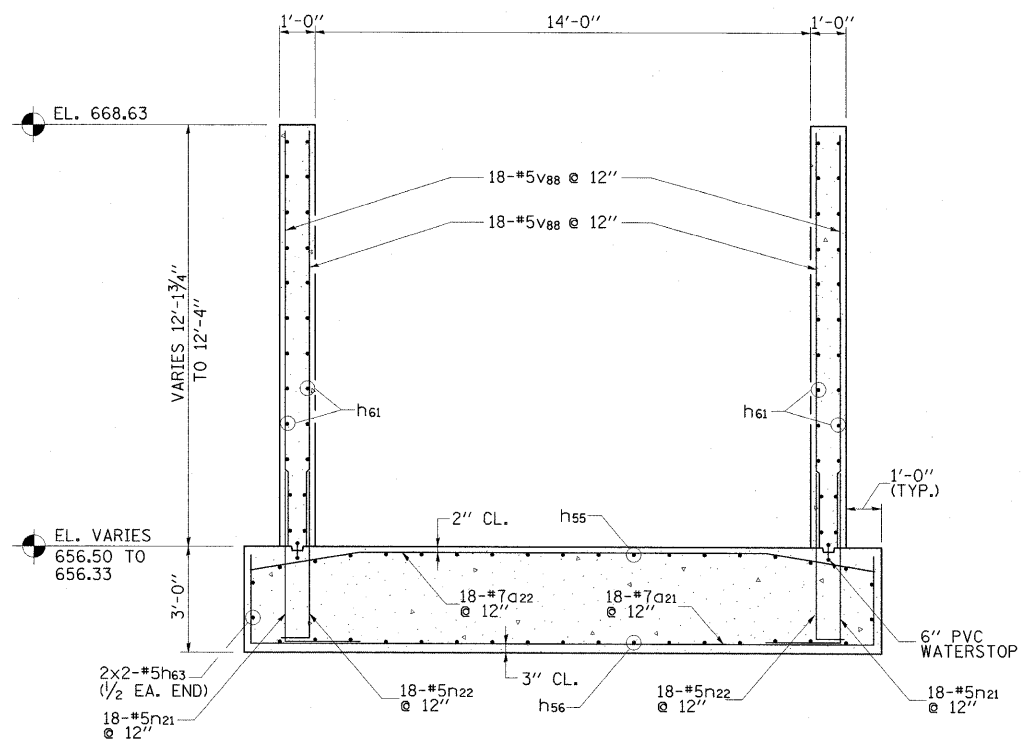
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		DRAWN - GLD	REVISED -					8243	09-00134-00-DR	MONTGOMERY	32	19
	PLOT SCALE = 4.0000' / IN.	CHECKED - KLT/JJF	REVISED -		CONTRACT NO. 93537							
	PLOT DATE = 3/3/2010	DATE - 3/2/2010	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							
				SCALE: N/A		SHEET NO. 19 OF 32 SHEETS		STA.		TO STA.		



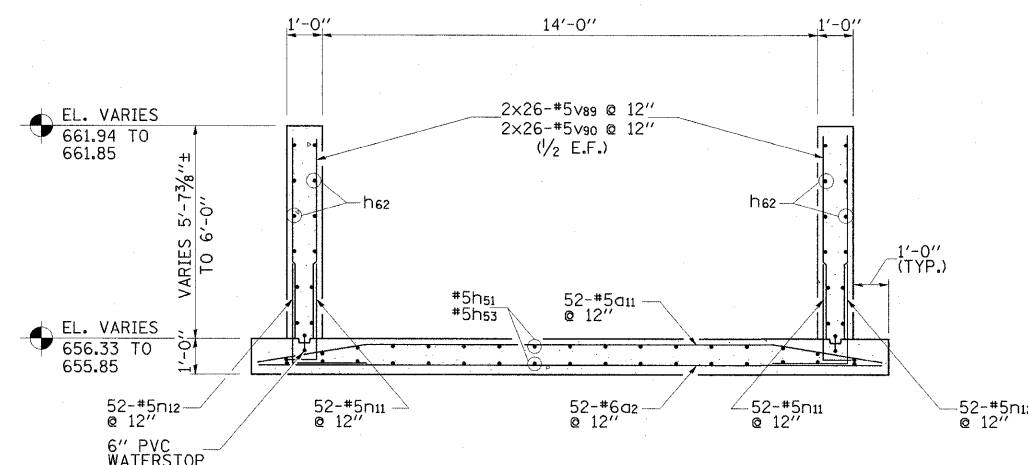
SECTION A-B



SECTION C

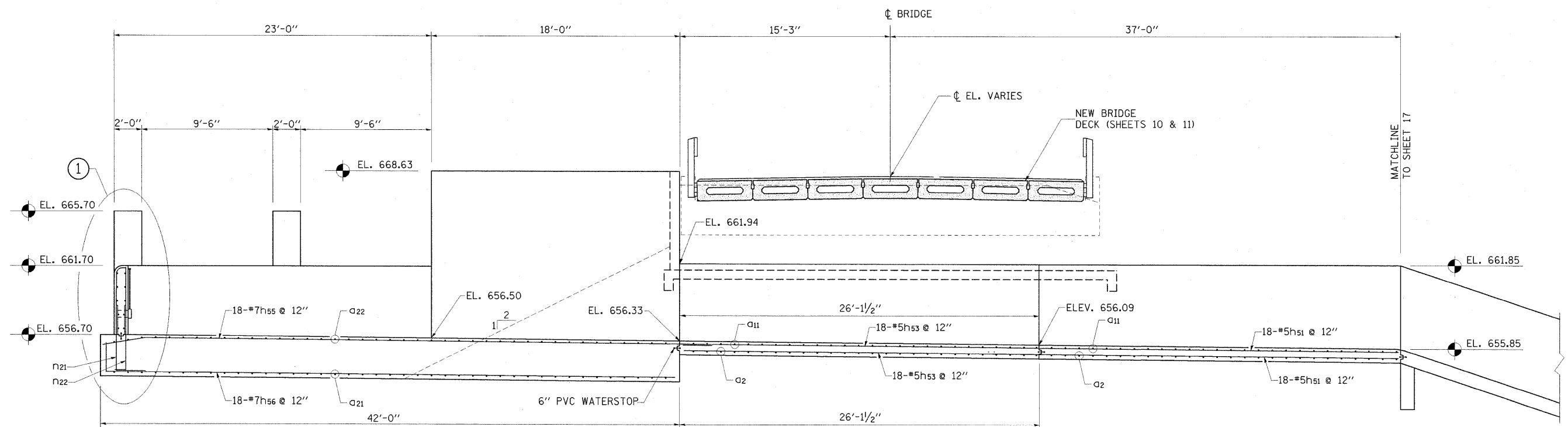


SECTION D

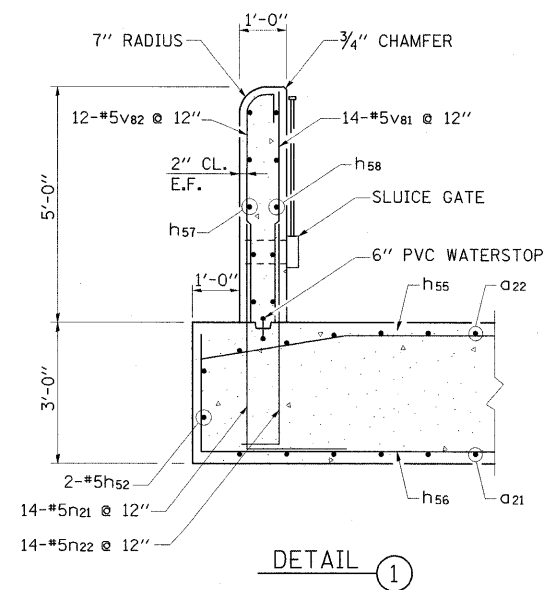


SECTION E

FILE NAME =	USER NAME = Kristin Timmons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	PROPOSED SPILLWAY WEIR STRUCTURE SECTIONS F.A.U. ROUTE 8243			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 2,6656' / IN.	CHECKED - KLT/JJF	REVISED -					CONTRACT NO. 93537				
	PLOT DATE = 3/3/2010	DATE = 3/2/2010	REVISED -					FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				



SECTION F-19



DETAIL 1

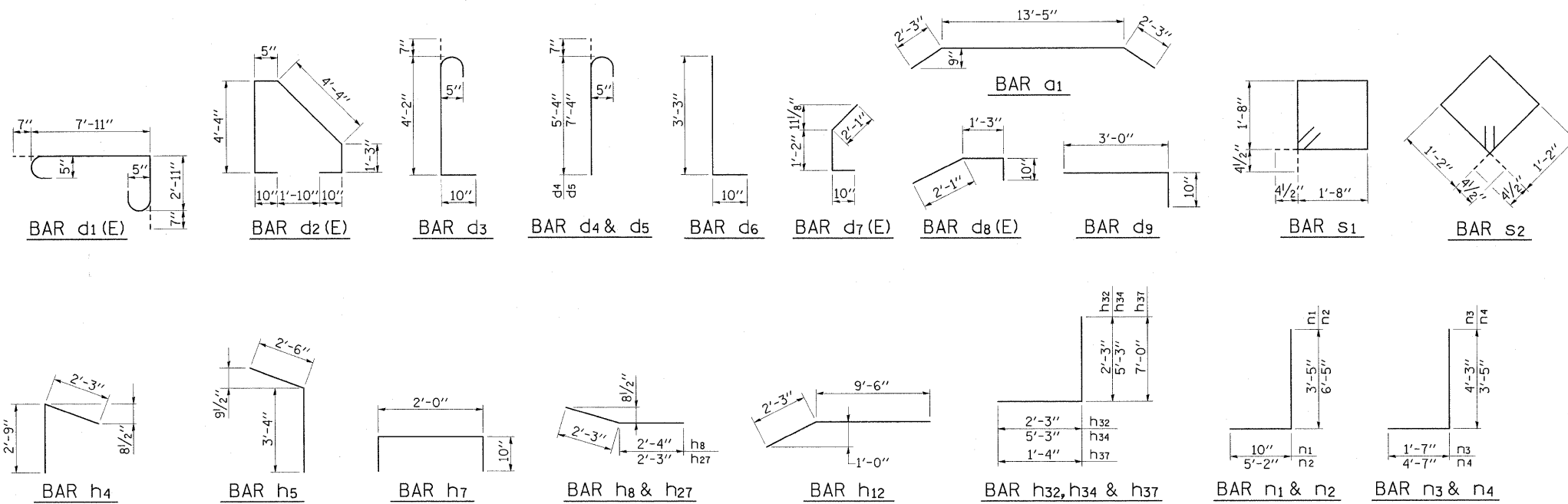
WEIR STR.-BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a2	52	6	17'-6"	—
a11	52	5	17'-9"	—
a21	42	7	22'-6"	—
a22	42	7	17'-9"	—
h51	36	5	28'-3"	—
h52	2	5	17'-6"	—
h53	36	5	26'-0"	—
h54	20	5	4'-6"	—
h55	18	7	44'-2"	—
h56	18	7	41'-6"	—
h57	5	5	15'-6"	—
h58	5	5	14'-6"	—
h59	14	5	22'-9"	—
h60	10	5	22'-2"	—
h61	48	5	20'-2"	—
h62	48	5	28'-11"	—
h63	4	5	20'-3"	—
h64	8	5	5'-5"	U
n11	104	5	3'-10"	—
n12	104	5	5'-3"	—
n21	98	5	7'-3"	L
n22	96	5	5'-10"	L
s11	16	4	5'-2"	Q
s12	8	4	5'-1"	Q

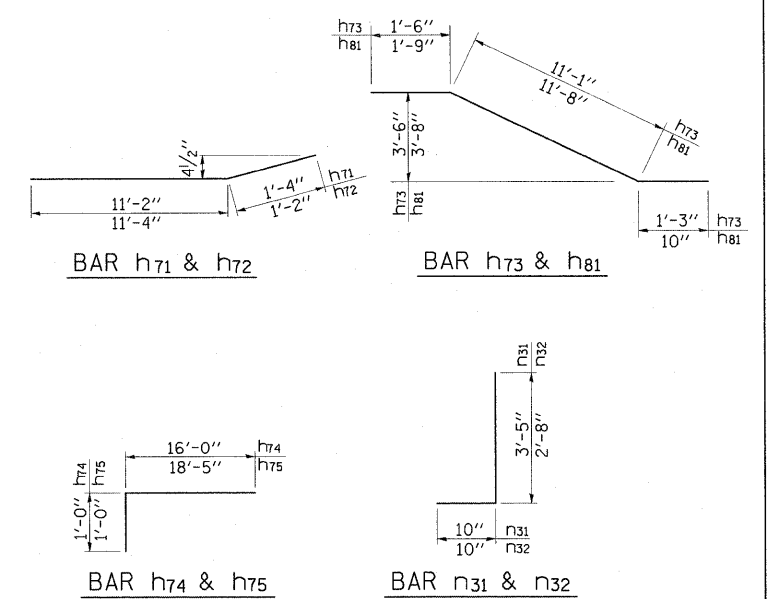
BILL OF MATERIAL (CONT.)

BAR	NO.	SIZE	LENGTH	SHAPE
v81	22	5	4'-9"	—
v82	12	5	5'-10"	—
v83	20	5	5'-11"	—
v84	20	5	4'-10"	—
v85	20	5	6'-0"	—
v86	20	5	5'-0"	—
v87	8	5	4'-11"	—
v88	72	5	12'-1"	—
v89	104	5	5'-7"	—
v90	104	5	5'-9"	—
v91	26	5	6'-1"	—
ITEM		UNIT	QUANTITY	
CONCRETE STRUCTURES		CU. YD.	167	
REINFORCEMENT BARS		POUND	19,800	
SLUICE GATE		EACH	1	

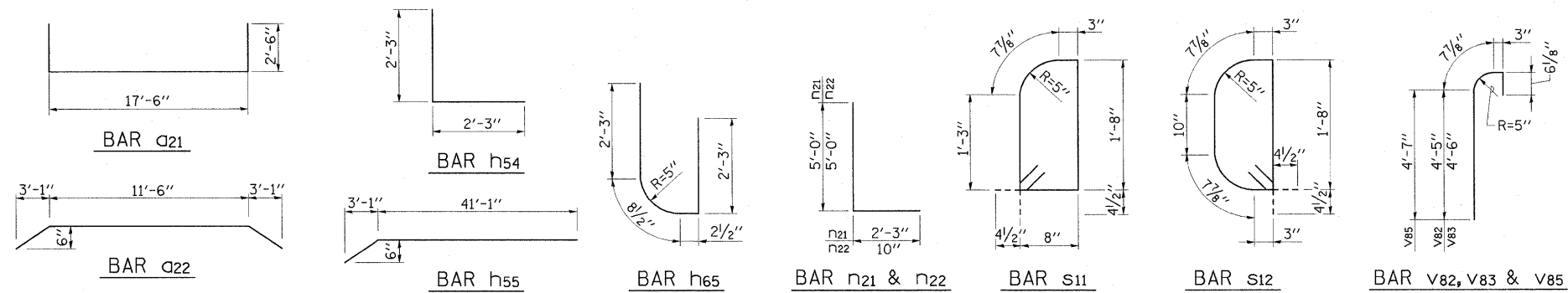
SEE SHEET 23 OF 32 FOR BAR BEND DETAILS



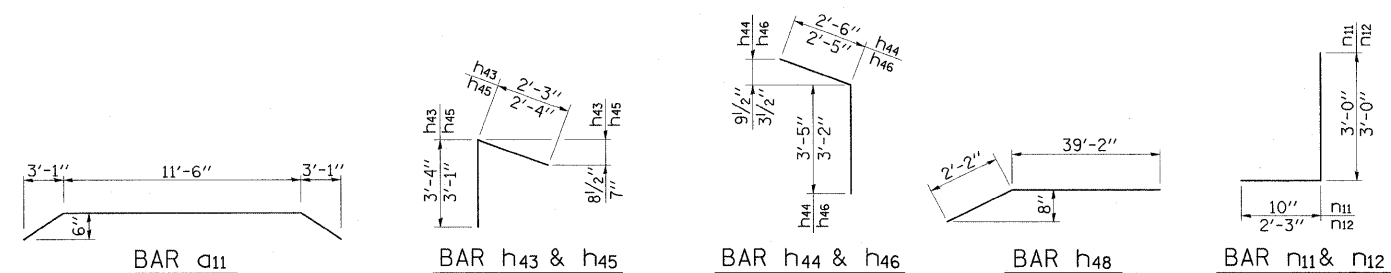
STILLING BASIN BAR BEND DETAILS



SLOPE WALL
BAR BEND DETAILS

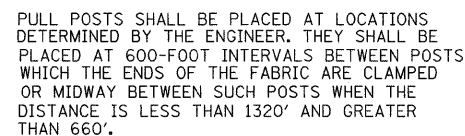


WEIR STRUCTURE BAR BEND DETAILS

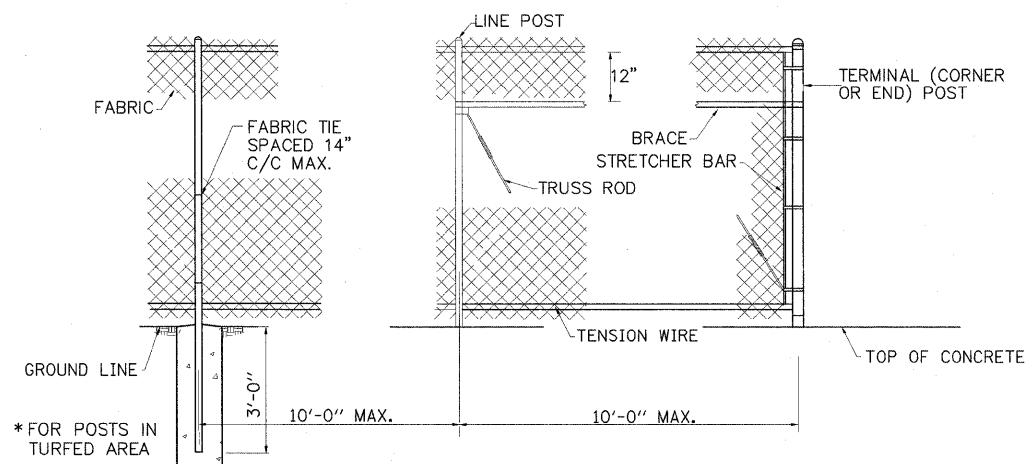


SPILLWAY CHUTE BAR BEND DETAILS

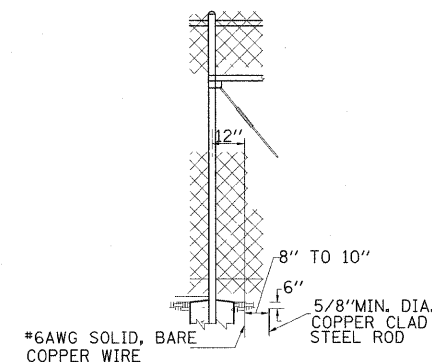
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...\\sheets\Pr_Bor_Bend_Details.dgn		DRAWN - GLD	REVISED -		SCALE: N/A	8243	09-00134-00-DR	MONTGOMERY	32	23
	PLOT SCALE = 2.6656" / IN.	CHECKED - KLT/JJF	REVISED -		SHEET NO. 23 OF 32 SHEETS					
	PLOT DATE = 3/3/2010	DATE - 3/2/2010	REVISED -		STA. TO STA.	CONTRACT NO. 93537 FED. ROAD DIST. NO. 6 (ILLINOIS) FED. AID PROJECT				



PULL POST ARRANGEMENT



LINE POST ARRANGEMENT	TERMINAL OR END POST ARRANGEMENT
NTS	NTS



STANDARD GROUND
NTS

PROTECTIVE ELECTRICAL GROUNDS

FENCE IN TURFED AREA SHALL BE GROUNDED AT INTERVALS OF 50'. THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS.

TERMINAL POSTS — SIZES & WEIGHTS	
SECTION	LBS./LIN. FEET
PIPE TYPE A 2.375" O.D.	3.65
PIPE TYPE B 2.375" O.D.	3.11
PIPE TYPE C 2.375" O.D.	3.09

NOTES:

1. UTILIZE PIPE TYPE A FOR ALL LINE AND TERMINAL POSTS.
2. PIPE SHALL BE ASTM A53, GRADE B OR ASTM A500, GRADE B.
3. BASE PLATES SHALL BE ASTM A36 MINIMUM.
4. GALVANIZED MATERIALS SHALL BE PROVIDED FOR FENCING AND POSTS.
5. ANCHORS SHALL BE STAINLESS STEEL CHEMICAL ADHESIVE TYPE AND SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



NOTES:

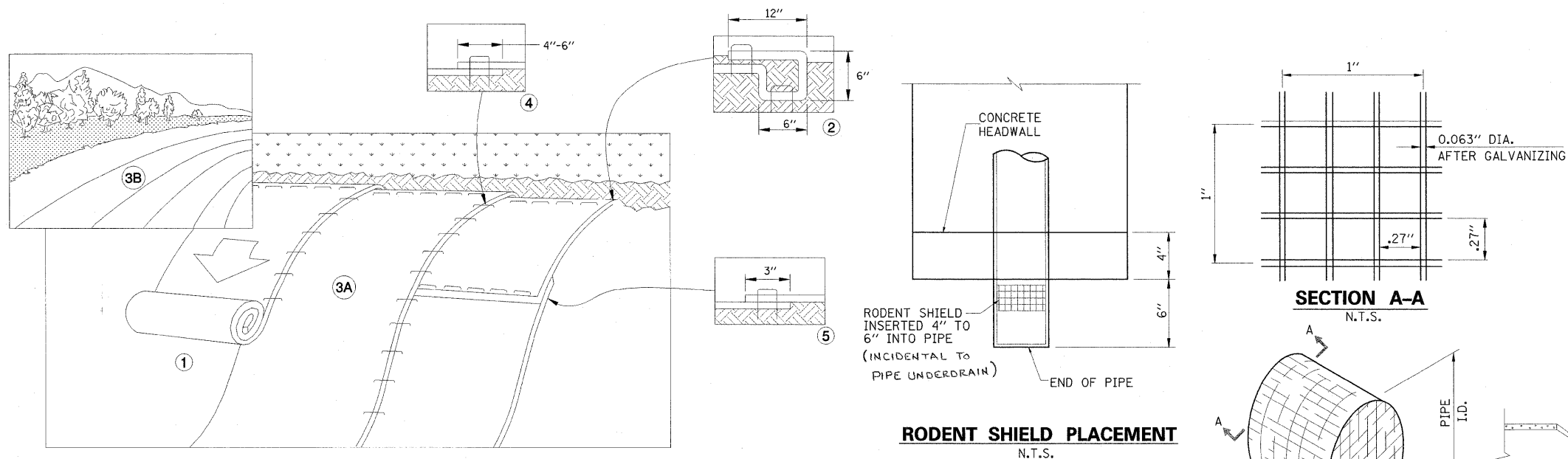
BASE PLATE SHALL BE CLEANED WITH
POWER WIRE BRUSH AND THE WELD
SHALL BE GROUND SMOOTH. GRIND
CORNERS AND EDGES TO $\frac{1}{8}$ INCH RADIUS.
APPLY 2 COATS OF ZRC COLD GAVANIZING.

BASE PLATE SHALL HAVE ANGLE TO CONFORM
TO THE SLOPE OF TOP OF WALL.

DRILL $\frac{1}{2}$ INCH DRAINAGE HOLE THROUGH CENTER
OF EACH BASE PLATE.

ANCHOR BOLTS, NUTS AND WADERS SHALL BE
304 STAINLESS STEEL.

FILE NAME = ...\\Sheets\\Chainlink_Fence_Details.dgn	USER NAME = Kristin Timmons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	CHAINLINK FENCE DETAILS F.A.U. ROUTE 8243				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GLD	REVISED -		8243	09-00134-00-DR	MONTGOMERY	32	24				
	PLOT SCALE = 1.0000' / IN.	CHECKED - KLT/JJF	REVISED -		CONTRACT NO. 93537								
	PLOT DATE = 3/3/2010	DATE = 3/2/2010	REVISED -		SCALE: N/A	SHEET NO. 24 OF 32 SHEETS	STA. N/A	TO STA. N/A	FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



INSIDE DIAMETER STORM SEWER (IN.)	MIN. DIMENSION (FT)				
	A	B	C	D	E
12" thru 24"	15	4	2.0	1.5	4
27" thru 30"	18	5	3.5	2.0	6
36" thru 48"	22	6	4.5	2.5	8
54" thru 60"	25	7	6.0	3.5	10

INSTALLATION NOTES:

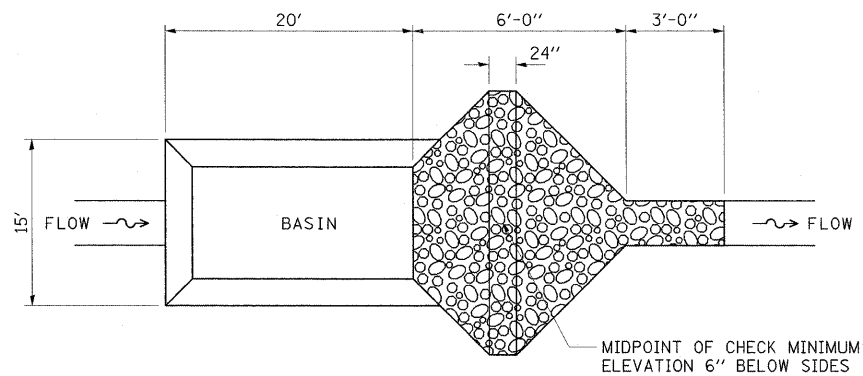
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURERS RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4"-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTES:

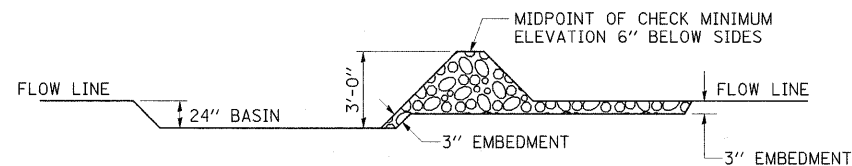
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOR PRODUCT SELECTION, SEE SITE SPECIFICATIONS.

EROSION CONTROL BLANKET

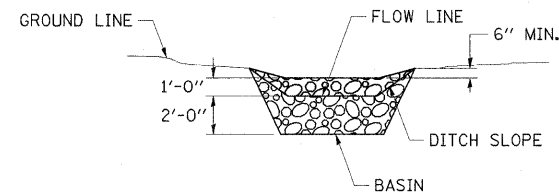
N.T.S.



PLAN VIEW - BASIN WITH STONE CHECK OUTLET



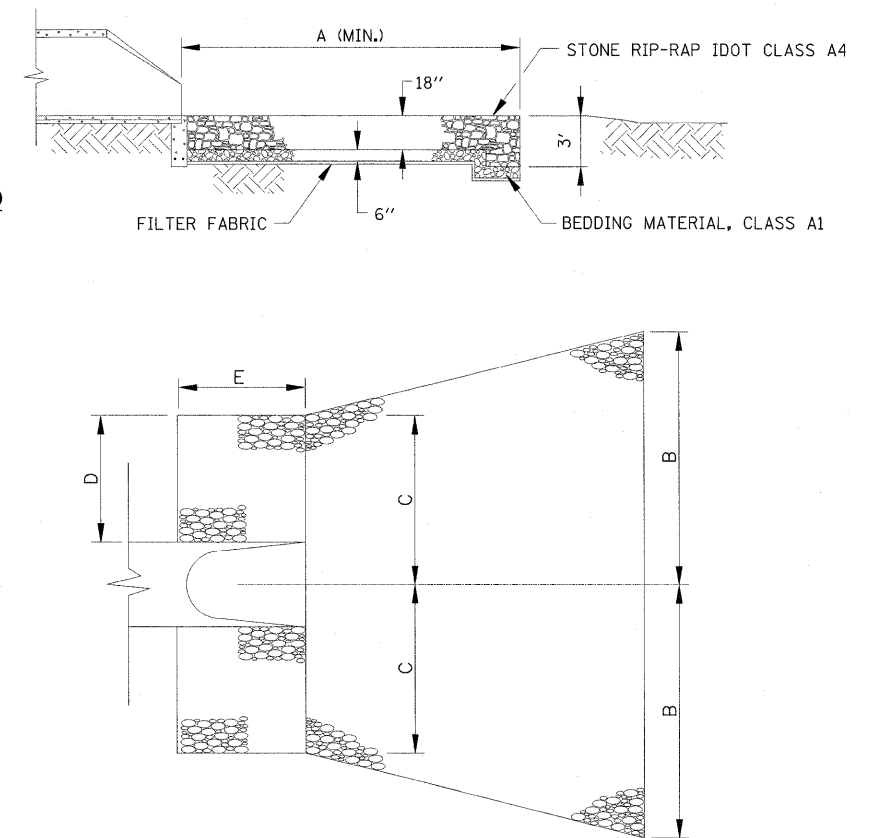
SECTION - BASIN WITH STONE CHECK OUTLET



ELEVATION - BASIN WITH STONE CHECK OUTLET

SEDIMENT BASIN

N.T.S.



MAINTENANCE NOTES:

1. INSPECT RIPRAP AFTER STORM EVENTS FOR STONE DISPLACEMENT AND FOR EROSION AT THE SIDES AND ENDS OF THE APRON.
2. MAKE NEEDED REPAIRS IMMEDIATELY; USE APPROPRIATE SIZE STONE, AND DO NOT PLACE THEM ABOVE FINAL GRADE.

RIP-RAP AT END SECTIONS

N.T.S.

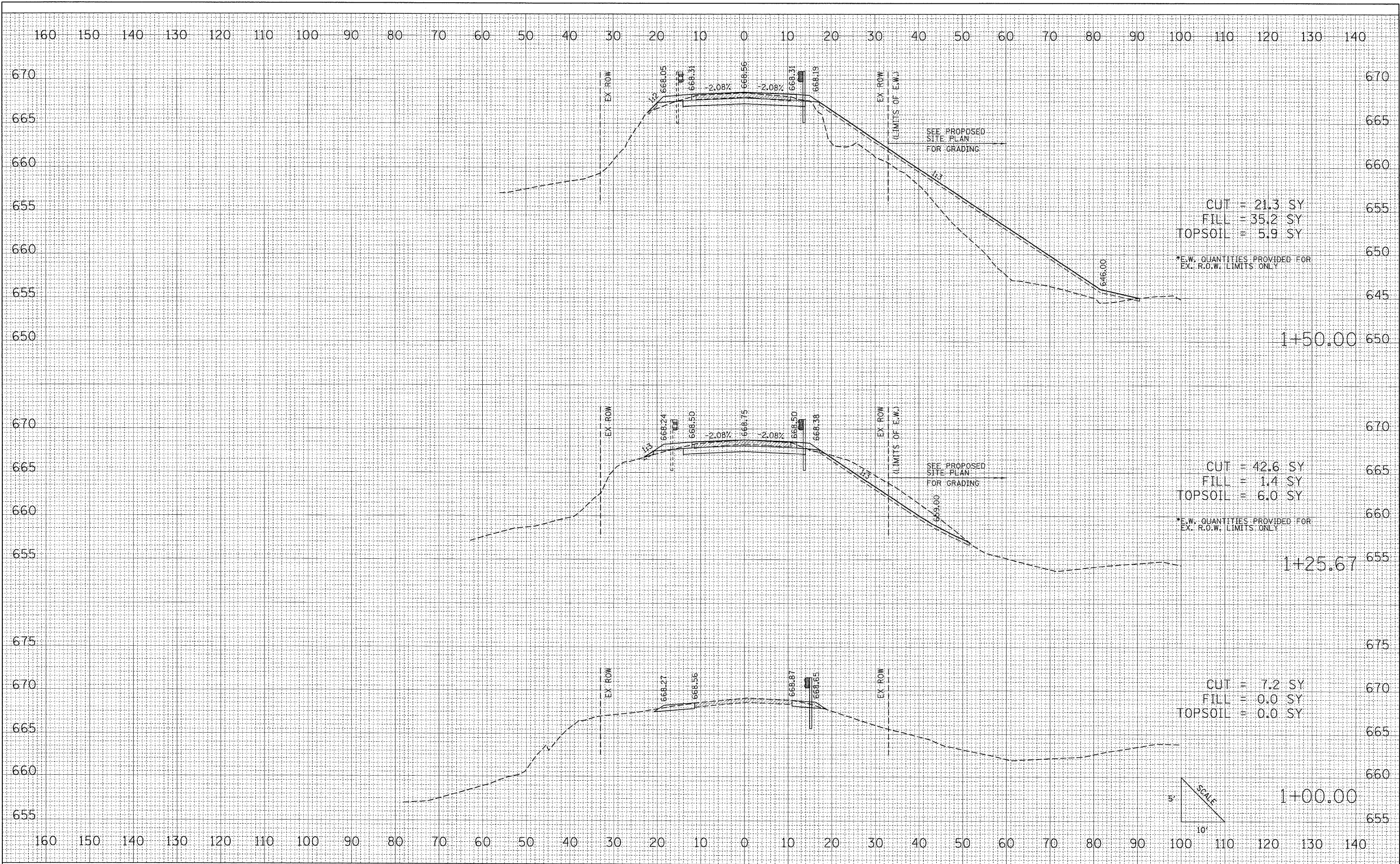
NOTES:

ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET, ON STANDARD 280001, AND AS DIRECTED BY THE ENGINEER.

FILE NAME = ...\\Eros-Contl-Temp-Div...Dtls.dgn	USER NAME = Kristin Timmons	DESIGNED - KLT/JJF	REVISED -	NIEMANVILLE TRAIL MONTGOMERY COUNTY, ILLINOIS	EROSION CONTROL & TEMPORARY DIVERSION DETAILS F.A.U. ROUTE 8243				F.A.U. RTE. 8243	SECTION 09-00134-00-DR	COUNTY MONTGOMERY	TOTAL SHEETS 32	SHEET NO. 25
	PLOT SCALE = 20,000' / 1"	CHECKED - KLT/JJF	REVISED -						CONTRACT NO. 93537				
	PLOT DATE = 3/3/2010	DATE = 3/2/2010	REVISED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT								

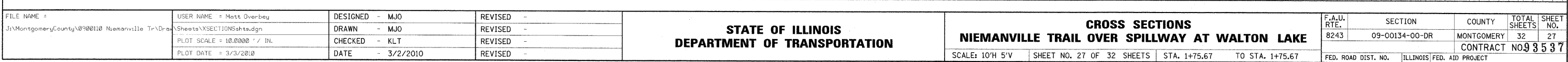
DATE	BY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
FINAL					
SURVEY					
NOTE BOOK					
NO.					

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



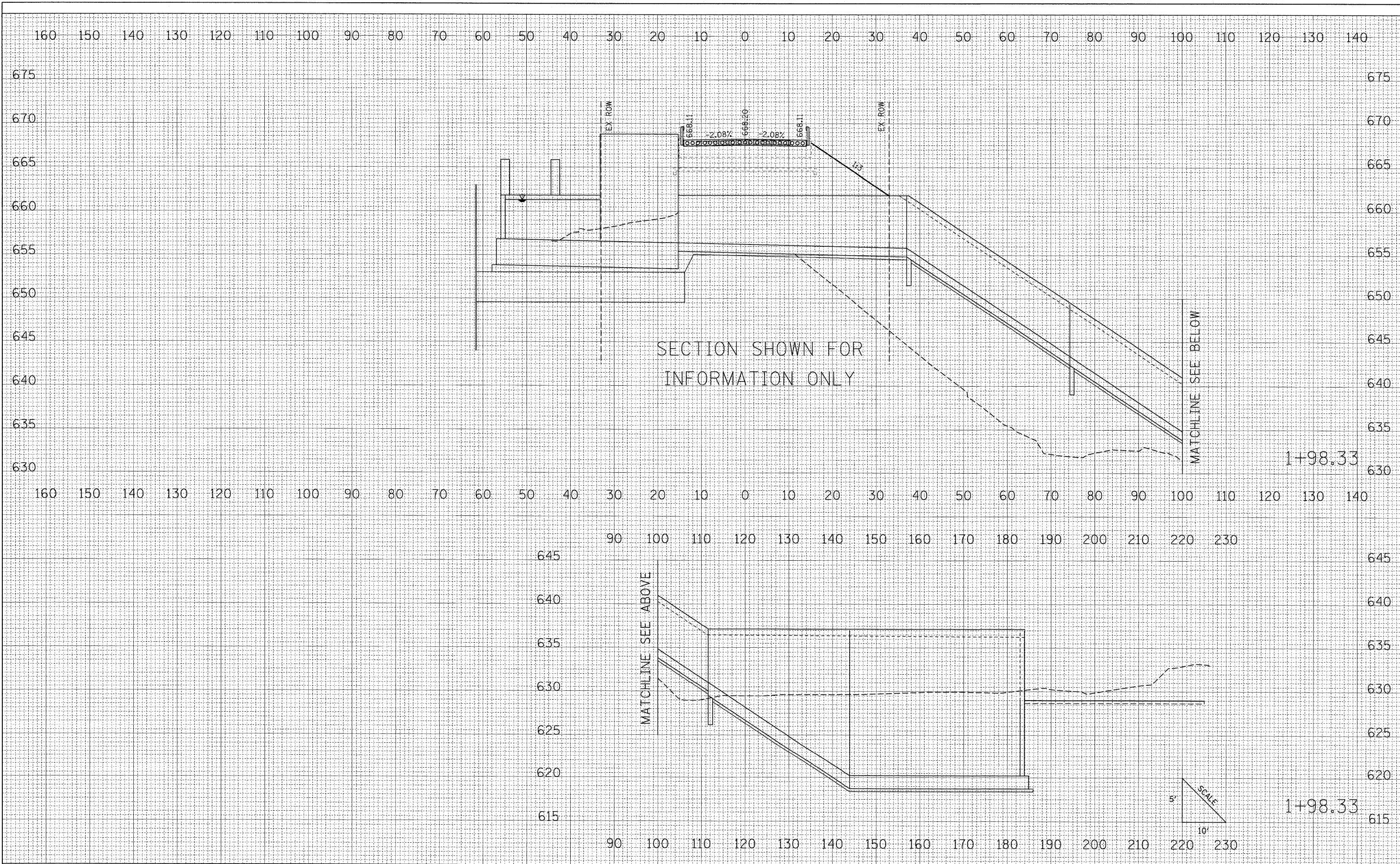
FILE NAME = J:\MontgomeryCounty\09000110 Niemanville Tr\Draw\Sheets\XSECTION\sehts.dgn	USER NAME = Matt Overbey	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE	F.A.U. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -			8243	09-00134-00-DR	MONTGOMERY	32	26	
	PLOT SCALE = 10.0000' / IN.	CHECKED - KLT	REVISED -			CONTRACT NO. 93537					
	PLOT DATE = 3/3/2010	DATE - 3/2/2010	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 10'H 5'V		SHEET NO. 26 OF 32 SHEETS		STA. 1+00.00 TO STA. 1+50.00							

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



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

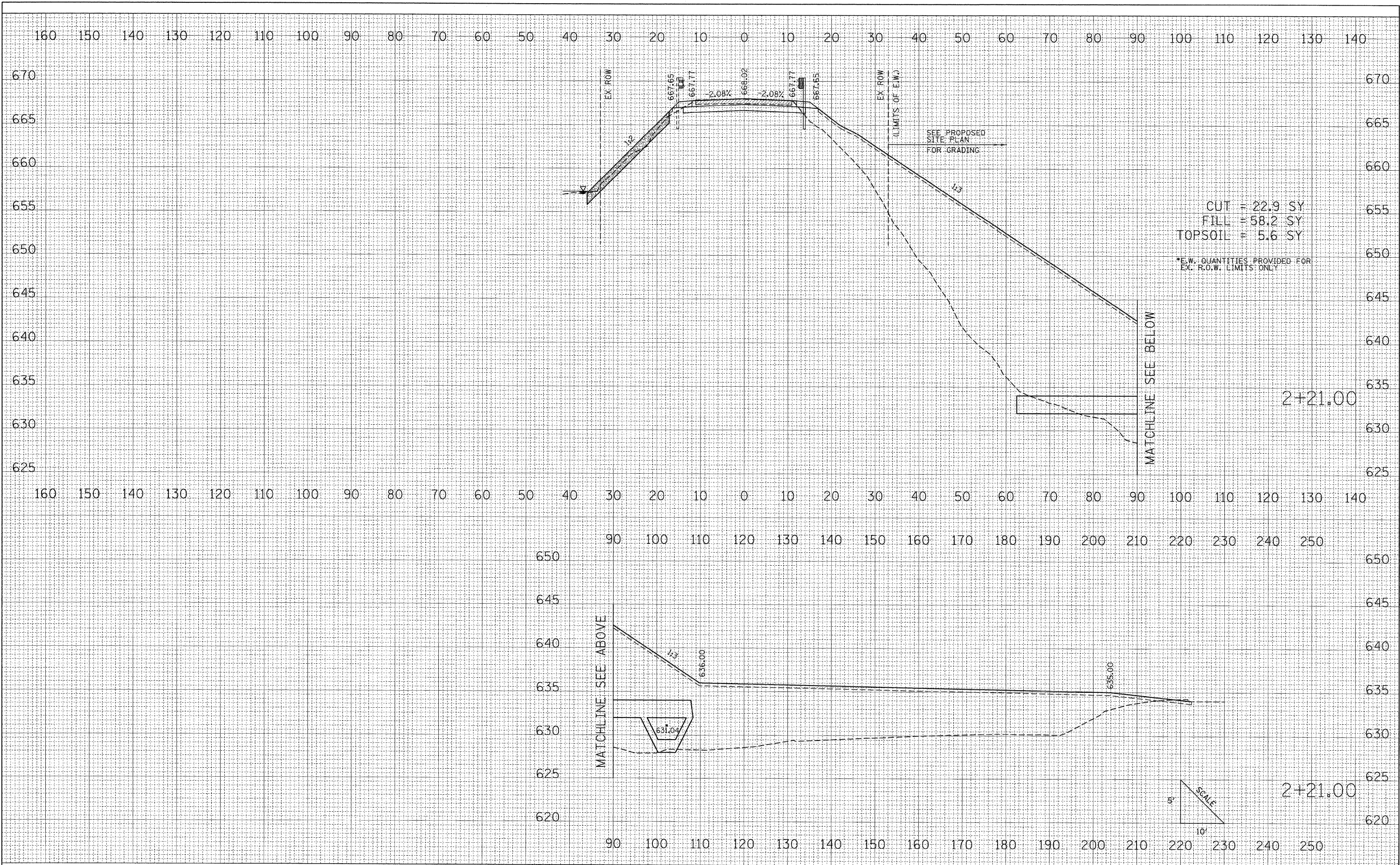
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		



FILE NAME - J:\Montgomery\County\0900110 Niemanville Tr\Draw\Sheets\XSECTIONShits.dgn	USER NAME - Matt Overbey	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE	F.A.U. RTE. 8243	SECTION 09-00134-00-DR	COUNTY MONTGOMERY	TOTAL SHEETS 32	SHEET NO. 28
PLOT SCALE - 10,0000' / IN.	CHECKED - KLT	DATE - 3/2/2010	REVISED -			SCALE: 10'H 5'V	SHEET NO. 28 OF 32 SHEETS	STA. 1+98.33	TO STA. 1+98.33	CONTRACT NO. 93537
PLOT DATE - 3/3/2010										

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

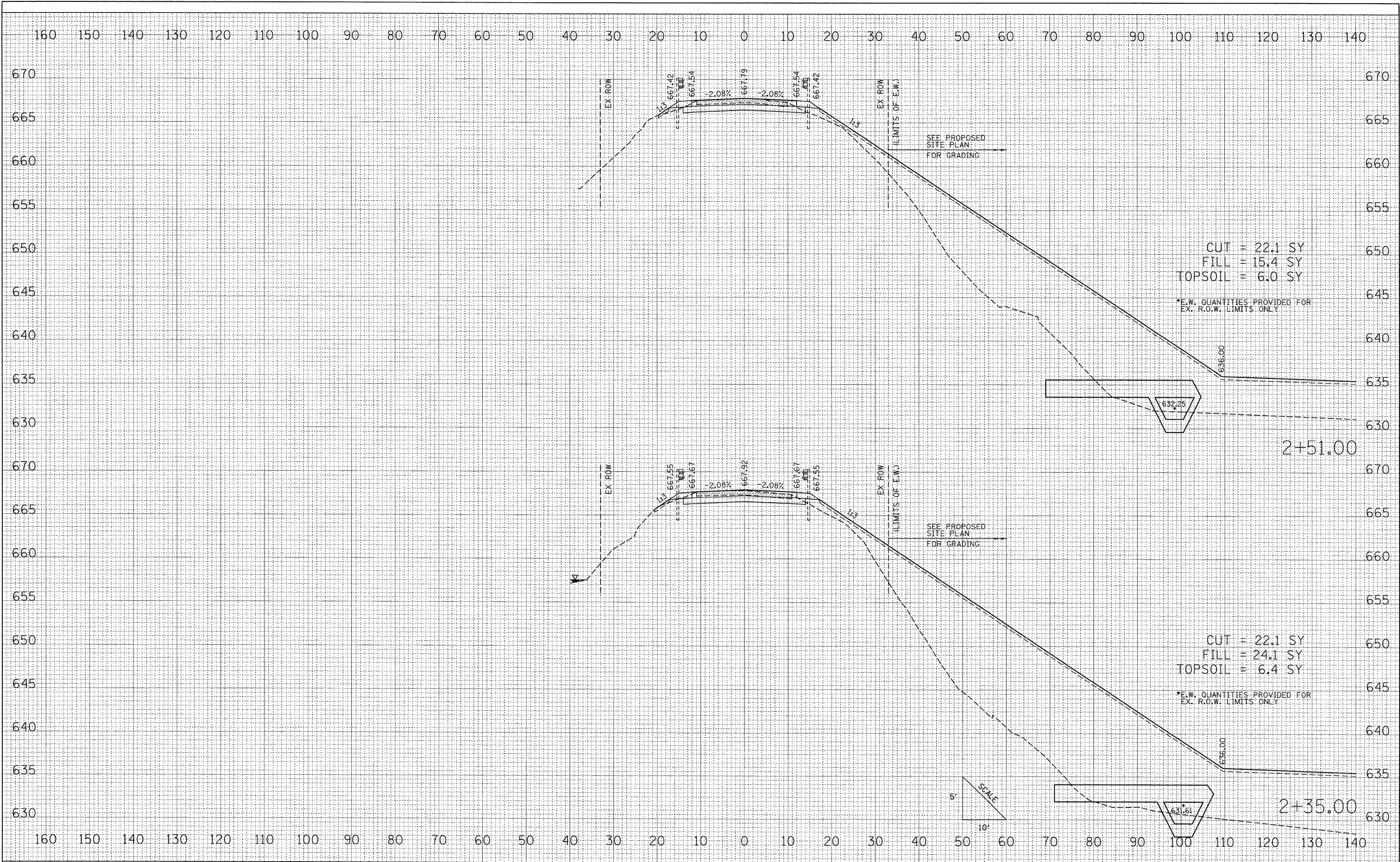
DATE	BY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
NO.		ORIGINAL	NOTE BOOK		



FILE NAME = J:\MontgomeryCounty\0900110 Niemanville Tr\Draw\Sheets\XSECTIONShs.dgn	USER NAME = Matt Overbey	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CROSS SECTIONS NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000" / 1".	CHECKED - KLT	DRAWN - MJO	REVISED -									8243	09-00134-00-DR	MONTGOMERY	32	29
PLOT DATE = 3/3/2010	DATE - 3/2/2010		REVISED -									CONTRACT NO. 93537				
												FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = J:\MontgomeryCounty\0900110 Niemanville Tr\Draw

USER NAME = Matt Overboy
DESIGNED - MJO
DRAWN - MJO
CHECKED - KLT
DATE - 3/2/2010

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

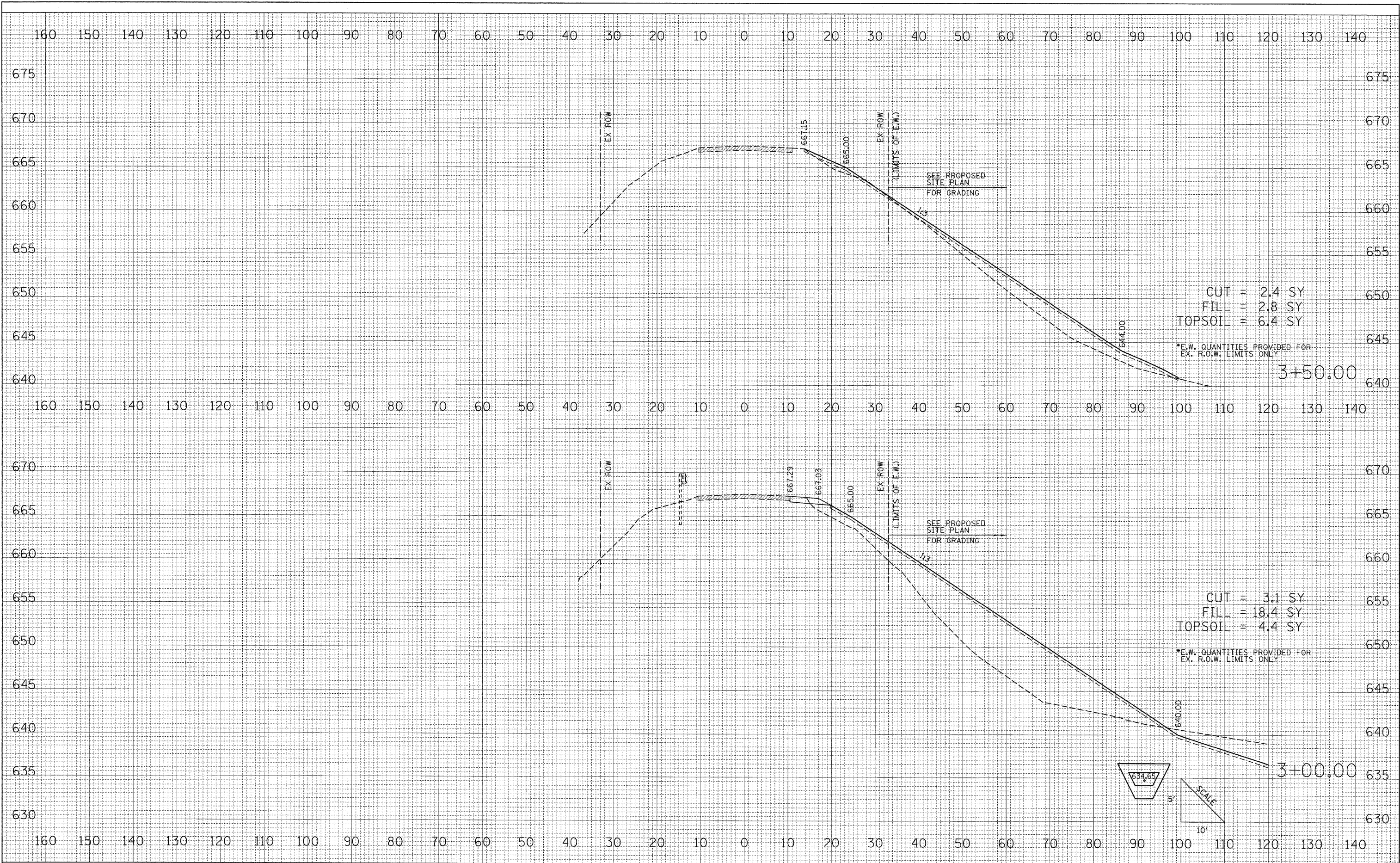
CROSS SECTIONS
NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE

SCALE: 10'H 5'V SHEET NO. 30 OF 32 SHEETS STA. 2+35.00 TO STA. 2+51.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8243	09-00134-00-DR	MONTGOMERY	32	30
CONTRACT NO. 93537				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

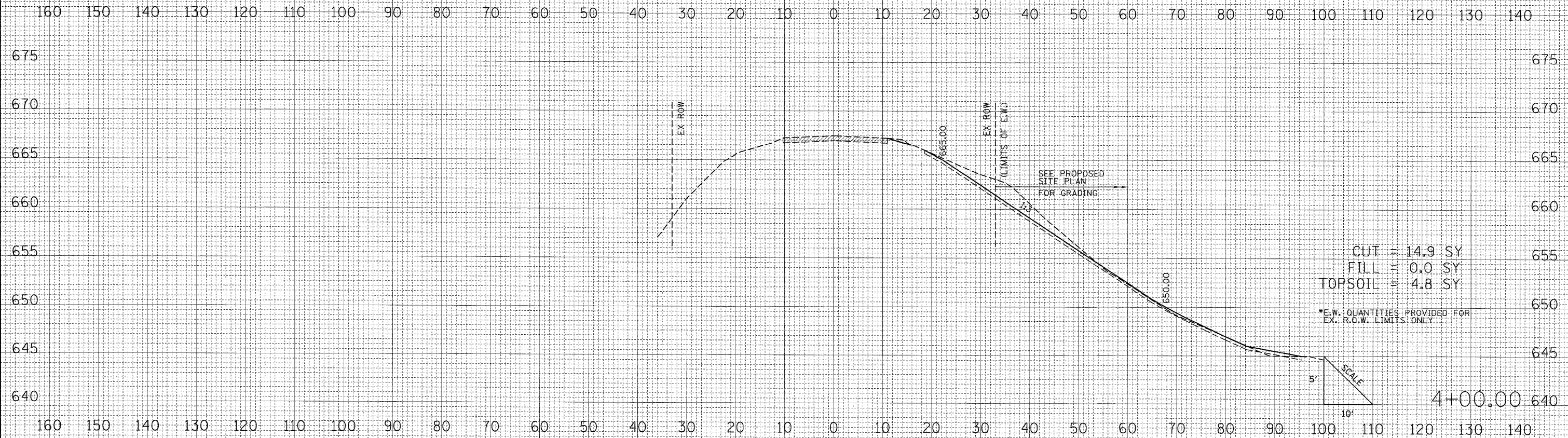
DATE	BY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
FINAL		NO.	NO.		

DATE	BY	SURVEYED	PLOTTED	DATE	AREAS CHECKED
ORIGINAL		NO.	NO.		



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

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



FILE NAME = J:\MontgomeryCounty\0900110 Niemanville Tr\Draw\Sheets\XSECTION\shs.dgn	USER NAME = Matt Overbey	DESIGNED - MJO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS NIEMANVILLE TRAIL OVER SPILLWAY AT WALTON LAKE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -						8243	09-00134-00-DR	MONTGOMERY	32	32
	PLOT SCALE = 10.0000' / IN.	CHECKED - KLT	REVISED -						CONTRACT NO 93537				
	PLOT DATE = 3/3/2010	DATE - 3/2/2010	REVISED -						SCALE: 10'H 5'V	SHEET NO. 32 OF 32 SHEETS	STA. 4+00.00	TO STA. 4+00.00	FED. ROAD DIST. NO.