

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, LIST OF STATE HIGHWAY STANDARDS, AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES AND EARTHWORK SCHEDULE
- 4-6 TYPICAL SECTIONS
- 7 REMOVAL PLAN
- 8 ALIGNMENT, TIES
- 9 PLAN AND PROFILE SHEET
- 10 TEMPORARY DETOUR PLAN
- 11 EROSION CONTROL, PAVEMENT MARKING AND RESTORATION PLAN
- 12 GRADING PLAN
- 13-32 BRIDGE PLANS
- 33-37 DISTRICT DETAILS, CONSTRUCTION DETAILS
- 38-41 CROSS SECTIONS

STRUCTURE INFORMATION:

EXISTING SN 056-3123
 EXISTING 3-SPAN STRUCTURE CONSISTS OF PRECAST, PRESTRESSED CONCRETE DECK BEAMS WITH AN OUT-TO-OUT WIDTH OF 36'-0" AND A TOTAL LENGTH OF 130'-2" BK. TO BK. ABUTMENTS WITH NO SKEW. THE SUBSTRUCTURE CONSISTS OF METAL SHELL PILE BENT PIERS AND ABUTMENTS. STRUCTURE TO BE REMOVED AS SHOWN WITH NO SALVAGE

PROPOSED SN 056-6123:
 PROPOSED 3-SPAN STRUCTURE CONSISTS OF A 5" THICK REINFORCED CONCRETE WEARING SURFACE ON 27" DEEP PRECAST, PRESTRESSED CONCRETE DECK BEAMS WITH AN OUT-TO-OUT WIDTH OF 48'-0" AND A TOTAL LENGTH OF 142'-7 1/4" BK. TO BK. ABUTMENTS WITH AN 8 DEGREE AHEAD LEFT SKEW. THE SUBSTRUCTURE CONSISTS OF METAL SHELL PILE BENT ABUTMENTS AND CONCRETE ENCASED METAL SHELL PILE BENT PIERS.

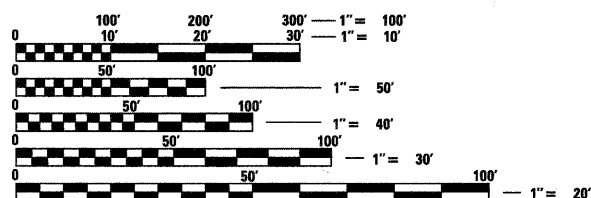
TRAFFIC DATA

ADT: WINN ROAD 6,300 VPD (2008) 12,000 VPD (2030)

POSTED SPEED 35 MPH (EXISTING) 40 MPH (PROPOSED)
 DESIGN SPEED 35 MPH (PROPOSED)

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION - COLLECTOR (URBAN)



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

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 CALL 811



Illinois Professional Design Firm # 184-000108



SEC GROUP, INC.
 An HR Green Company
 420 N. Front Street, McHenry, IL 60050
 t. 815.385.1778 f. 815.385.1781
 www.secgroupinc.com
 • McHenry, IL • Yorkville, IL • New Lenox, IL • Chicago, IL

PROJECT ENGINEER: KEVIN M. ARFT, P.E.
 PROJECT MANAGER: ROBERT G. DAVIES, S.E., P.E.

CONTRACT NO. 63544

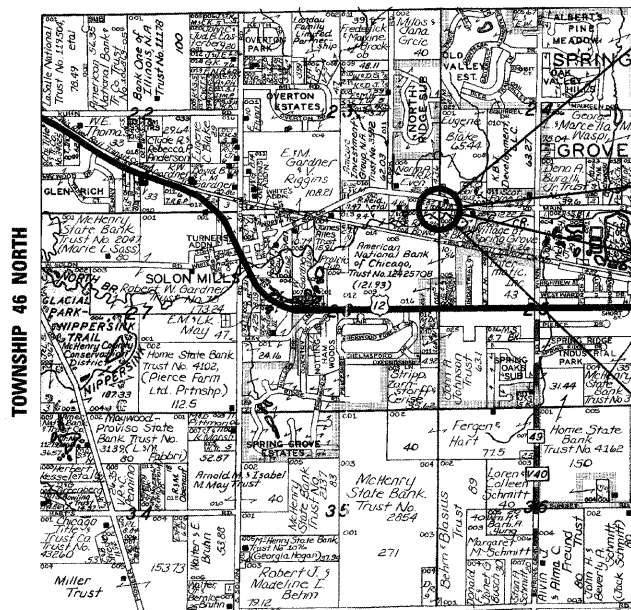
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY**

FAU ROUTE 0157 (WINN ROAD)
 BRIDGE REPLACEMENT OVER NIPPERSINK CREEK
 SECTION 07-00012-00-BR
 PROJECT NO: BRM-8003-(922)
 STRUCTURE NO: 056-6123
 VILLAGE OF SPRING GROVE
 McHENRY COUNTY
 JOB NO: C-91-141-08

PROJECT LOCATION MAP

RANGE 8 EAST



PROJECT IS LOCATED IN THE VILLAGE OF SPRING GROVE

END PROJECT STA. 33 + 38

PROJECT LOCATION

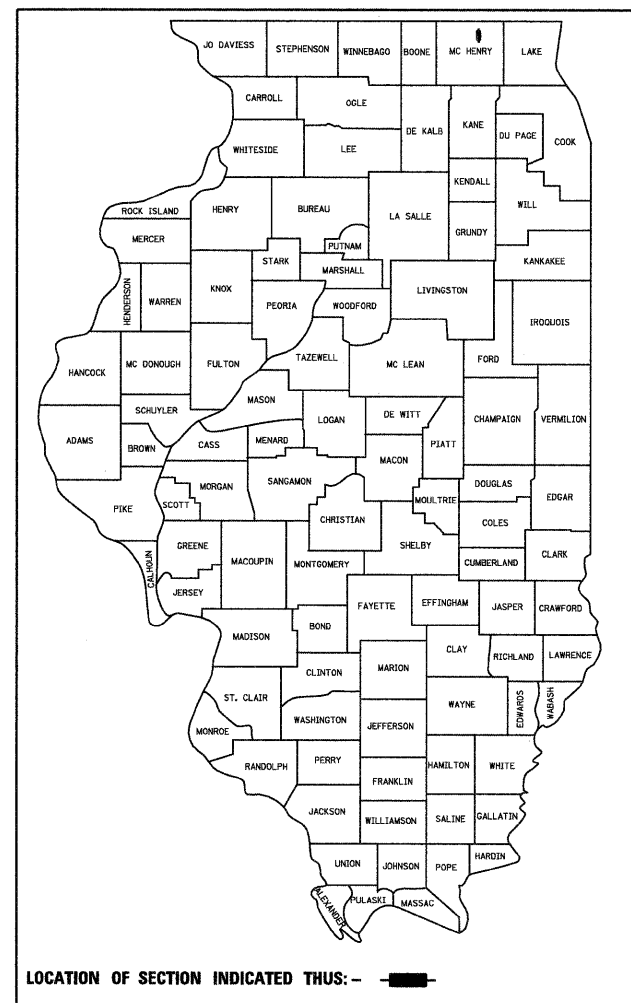
BRIDGE REMOVAL AND REPLACEMENT STA. 29 + 85.48 TO STA. 31 + 28.08
 L = 142.6 FT
 EX SN: 056-3123
 PR SN: 056-6123

BEGIN PROJECT STA. 28 + 00

PROJECT LENGTH

NET LENGTH OF PROJECT (WINN ROAD) = 337.4 FT (0.064 MI)
 STRUCTURE LENGTH (056-6123) = 142.6 FT
 GROSS LENGTH OF PROJECT = 537.8 FT (0.10 MI)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 63544	



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED JUNE 29, 2011

 VILLAGE OF SPRING GROVE

PASSED JULY 15, 2011

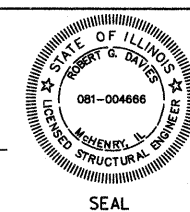
 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW JULY 18, 2011

 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

STRUCTURAL ENGINEER'S SIGN & SEAL

ROBERT G. DAVIES, S.E., P.E.
 EXPIRES: 11-30-2012



PROFESSIONAL ENGINEER'S SIGN & SEAL

KEVIN M. ARFT, P.E.
 EXPIRES: 11-30-2011



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 DATE PLOTTED: 6/27/2011 9:00:15 PM
 FILE NAME: 090212_CIV.dwg
 PLOT DRIVER: pdfplot
 PEN TABLE: STANDARD-TRANS.TBL
 PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

GENERAL NOTES

1. THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
2. FORTY EIGHT HOURS BEFORE STARTING EXCAVATION THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
3. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF SPRING GROVE, THE McHENRY COUNTY DIVISION OF TRANSPORTATION, AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT LEAST 72 HOURS IN ADVANCE OF BEGINNING ANY WORK ON WINN ROAD.
4. THE GENERAL CONTRACTOR SHALL CONTACT THE ARMY CORPS OF ENGINEERS AND THE McHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT TWO (2) WEEKS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF SPRING GROVE. THE CONTRACTOR SHALL RESTORE THE FIELD OFFICE SITE TO LIKE ORIGINAL CONDITION.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
7. THE CONTRACTOR SHALL ENSURE THAT ALL STORM SEWER MANHOLES, SANITARY SEWER MANHOLES, WATERMAIN VALVES, AND FIRE HYDRANTS REMAIN READILY ACCESSIBLE TO THE VILLAGE AT ALL TIMES.
8. THE LENGTH OF "GUARDRAIL REMOVAL" INCLUDES THE LENGTH OF THE TRAFFIC BARRIER TERMINALS.

9. EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE MAINTAINED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

10. THE WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL REGULATIONS GIVEN IN THE ARMY CORPS OF ENGINEERS PERMIT ISSUED FOR THE PROJECT AND THE IDOT FLOODWAY PERMIT ISSUED FOR THE PROJECT.
11. THIS PROJECT MAY REQUIRE UP TO 4 CHANGEABLE MESSAGE SIGNS.
12. THE EXISTING BRIDGE PLANS ARE AVAILABLE FOR REVIEW AT THE VILLAGE OF SPRING GROVE.
13. THE CONTRACTOR SHALL NOT ALLOW THE EXISTING DECK MATERIAL, OR OTHER CONSTRUCTION DEBRIS TO FALL INTO THE CREEK DURING DEMOLITION OR CONSTRUCTION.

PROJECT CONTACTS

MCHENRY COUNTY DEPARTMENT OF TRANSPORTATION	RAY BEETS	(815) 334-4960
ILLINOIS DEPARTMENT OF TRANSPORTATION	CHARLES RIDDLE	(847) 705-4406
U.S. ARMY CORP OF ENGINEERS	SOREN HALL	(312) 846-5532
MCHENRY COUNTY SOIL & WATER CONSERVATION DISTRICT	TOM MATTINGLY	(815) 338-0099
COMED	MIKE LENOX	(815) 490-2869
MEDIACOM	MATT FORGAS	(630) 365-0045
NICOR	CONSTANCE LANE	(630) 983-8678
FRONTIER COMMUNICATIONS	DONALD BELMORE	(815) 544-6171
VILLAGE OF SPRING GROVE	TOM SANDERS	(815) 675-2121
USGS	JON HORTNESS	(815) 756-9207

14. UNLESS OTHERWISE NOTED, OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT.
15. CLEARING SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS.

16. LANDSCAPING RESTORATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTIONS 201, 252 AND 253 OF THE STANDARD SPECIFICATIONS AND THE PLANS. THE LAYOUT AND SHAPE OF THE RESTORED LANDSCAPING AREAS SHALL BE IN GENERAL CONFORMANCE TO THE LAYOUT SHOWN IN THE PLANS AND COMPLETED TO THE SATISFACTION OF THE ENGINEER. THE MULCH AND PLANTS INSTALLED IN THE RESTORED LANDSCAPING AREAS (NOT INCLUDING TREES SHOWN IN THE PLANS TO BE PAID FOR SEPARATELY) SHALL CLOSELY MATCH EXISTING TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

17. THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE VILLAGE.

18. POROUS GRANULAR EMBANKMENT SUBGRADE AND ADDITIONAL REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL NOT INCLUDED IN THE EARTHWORK SCHEDULE HAVE BEEN ADDED FOR USE IF UNSUITABLE MATERIAL IS ENCOUNTERED IN THE FIELD, AS DETERMINED BY THE ENGINEER. IF UNSUITABLE AND/OR UNSTABLE MATERIALS IS NOT ENCOUNTERED, THEN THE QUANTITIES SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE TO THE CONTRACTOR.

APPROXIMATE ADDITIONAL QUANTITIES:
 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL: 177 CU YD
 POROUS GRANULAR EMBANKMENT, SUBGRADE: 177 CU YD

SUGGESTED SEQUENCE OF CONSTRUCTION

1. POST DETOUR AND CLOSE ROAD TO THROUGH TRAFFIC.
2. INSTALL EROSION CONTROL MEASURES INDICATED ON SHEET 11.
3. REMOVE EXISTING BRIDGE SUPERSTRUCTURE.
4. INSTALL UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL AT SOUTH PIER. DEWATER WORK AREA IN ACCORDANCE WITH BID DOCUMENTS.
5. REMOVE EXISTING SOUTH PIER AS INDICATED ON SHEETS S-1 AND S-2
6. DRIVE PILES AND CONSTRUCT SOUTH PIER AND SOUTH ABUTMENT.
7. INSTALL PROPOSED STONE RIP RAP AT SOUTH ABUTMENT.
8. REMOVE UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL AT SOUTH PIER AND RESTORE DEWATERED AREAS IN ACCORDANCE WITH BID DOCUMENTS.
9. CONSTRUCT RETAINING WALL.
10. INSTALL UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL AT NORTH PIER AND REPEAT 5 THROUGH 9 ABOVE FOR NORTH SIDE.
11. SET BEAMS AND CONSTRUCT BRIDGE SUPERSTRUCTURE.
12. PERFORM APPROACH ROADWAY IMPROVEMENTS, DITCH GRADING AND FINAL RESTORATION.

SUMMARY OF PHASE I COMMITMENTS

1. UTILITY COORDINATION
2. PURCHASE OF WETLAND CREDITS FOR 0.10 AC
3. USGS COORDINATION FOR RELOCATION OF EQUIPMENT
4. ACOE/IDOT PERMIT COORDINATION
5. DETOUR COORDINATION WITH McHENRY COUNTY DIVISION OF TRANSPORTATION
6. EROSION CONTROL PLACEMENT AND WASHING RIP RAP PRIOR TO PLACING IN THE STREAM TO AVOID POTENTIAL IMPACTS TO HABITAT OF STATE THREATENED BLACK SANDSHELL MUSSEL. MUSSELS WERE FOUND APPROXIMATELY 50 METERS UPSTREAM OF BRIDGE. THE LIMITS OF THE BRIDGE CONSTRUCTION WILL NOT EXTEND 50 UPSTREAM OF THE CROSSING.

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
280001-05	TEMPORARY EROSION CONTROL SYSTEM	631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
420401-08	BRIDGE APPROACH PAVEMENT	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
424001-05	CURB RAMPS FOR SIDEWALKS	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
515001-03	NAME PLATE FOR BRIDGES	701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
542401-01	METAL END SECTIONS FOR PIPE CULVERTS	701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN	701901-01	TRAFFIC CONTROL DEVICES
602001-02	CATCH BASIN, TYPE A	720001-01	SIGN PANEL MOUNTING DETAILS
602401-03	MANHOLE, TYPE A	720016-02	MAST ARM MOUNTED STREET NAME SIGNS
604001-03	FRAME AND LIDS, TYPE 1	780001-02	TYPICAL PAVEMENT MARKINGS
604046-02	FRAME AND GRATE, TYPE 10	BLR22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER		
630001-09	STEEL PLATE BEAM GUARDRAIL		

STANDARD ABBREVIATIONS

- B-B - BACK TO BACK OF CURB
- B.C. - BACK OF CURB
- B.O.C. - BACK OF CURB
- B.S.L. - BUILDING SETBACK LINE
- C.B. - STORM CATCH BASIN
- C.E. - COMMONWEALTH EDISON CO.
- D.E. - DRAINAGE EASEMENT
- E-E - EDGE TO EDGE OF PAVEMENT
- E.O.P. - EDGE OF PAVEMENT
- E.O.S. - EDGE OF SHOULDER
- E.P. - EDGE OF PAVEMENT
- E.S. - EDGE OF SHOULDER
- F.E.S. - FLARED END SECTION
- I.B.T. - ILLINOIS BELL TELEPHONE CO.
- L.E. - LANDSCAPE EASEMENT
- M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)
- R.O.W. - RIGHT OF WAY
- T.B.F. - TRENCH BACKFILL
- T.C. - TOP OF CURB
- T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
- T.O.B. - TOP OF BERM
- T.O.C. - TOP OF CURB
- U.E. - UTILITY EASEMENT
- U.O.N - UNLESS OTHERWISE NOTED

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:06:06 PM
 PLOT NUMBER: 07-00012-00-BR
 PLOT USER: jrd
 PEN TABLE: standard-trans.tbl

(Illinois Professional Design Firm # 184-000108)
SEC Group, Inc.
 224 Hill Street Company
 620 N. First Street
 Mchenry, IL 60050-2108
 815.386.5770 F 815.386.1761
 www.secgroupinc.com
 McHenry, IL - Rockville, IL - West Leno, IL - Chicago, IL

USER NAME = rhood	DESIGNED - KMA	REVISED -
FILE NAME = 090212_Nym01.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

GENERAL NOTES AND LIST OF STATE STANDARDS			
WINN ROAD			
SCALE: N.T.S.	SHEET NO. OF	SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63544	

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE	
PAY ITEM NUMBER	PAY ITEMS	UNITS	TOTAL QUANTITY	80% FEDERAL 20% LOCAL 0011	80% FEDERAL 20% LOCAL 0042
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	313	313	---
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	302	302	---
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,429	1,429	---
20400800	FURNISHED EXCAVATION	CU YD	560	560	---
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	2,015	2,015	---
25000310	SEEDING, CLASS 4	ACRE	0.5	0.5	---
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	38	38	---
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	38	38	---
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	38	38	---
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	4,030	4,030	---
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	45	45	---
28000315	AGGREGATE DITCH CHECKS	TON	29	29	---
28000400	PERIMETER EROSION BARRIER	FOOT	929	929	---
28200200	FILTER FABRIC	SO YD	1,365	1,365	---
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SO YD	470	470	---
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	125	125	---
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	18	18	---
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	55	55	---
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	25	25	---
40701921	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	SO YD	530	530	---
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	45	45	---
42400800	DETECTABLE WARNINGS	SO FT	160	160	---
44000100	PAVEMENT REMOVAL	SO YD	915	915	---
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	165	165	---
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	260	260	---
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	---
50105220	PIPE CULVERT REMOVAL	FOOT	11	11	---
50200100	STRUCTURE EXCAVATION	CU YD	490	490	---
50300225	CONCRETE STRUCTURES	CU YD	202.6	202.6	---
50300255	CONCRETE SUPERSTRUCTURE	CU YD	122	122	---
50300260	BRIDGE DECK GROOVING	SO YD	778	778	---
50300280	CONCRETE ENCASEMENT	CU YD	15.4	15.4	---
50300300	PROTECTIVE COAT	SO YD	842	842	---
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO FT	6,740	6,740	---
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	55,340	55,340	---
50901720	BICYCLE RAILING	FOOT	241	241	---
50901750	PARAPET RAILING	FOOT	166	166	---
51200958	FURNISHING METAL SHELL PILES 14"X0.250"	FOOT	2,296	2,296	---
51202305	DRIVING PILES	FOOT	2,296	2,296	---
51203200	TEST PILE METAL SHELLS	EACH	4	4	---
51500100	NAME PLATES	EACH	1	1	---
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	80	80	---
54215550	METAL END SECTIONS 15"	EACH	1	1	---
54215559	METAL END SECTIONS 24"	EACH	3	3	---
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	---
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	101	101	---
55100700	STORM SEWER REMOVAL 15"	FOOT	10	10	---
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	55	55	---
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3	3	---
60201005	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	EACH	2	2	---
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	---
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B - 6.12	FOOT	130	130	---
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POST	FOOT	305	305	---
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	---
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3	---
63200310	GUARDRAIL REMOVAL	FOOT	32	32	---
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	---
67100100	MOBILIZATION	L SUM	1	1	---
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16	---
72000100	SIGN PANEL - TYPE 1	SO FT	8	8	---
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1,035	1,035	---
78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	85	85	---
78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	13	13	---
78200420	GUARDRAIL MARKERS, TYPE B	EACH	16	16	---
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	---
A2C002G3	TREE, ACER RUBRUM (RED MAPLE), CONTAINER GROWN, 3-GALLON	EACH	23	23	---
A2C056G3	TREE, QUECURS MACROCARPA (BURR OAK), CONTAINER GROWN, 3-GALLON	EACH	22	22	---
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	200	200	---
X0325577	UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL-LOCATION 1	EACH	1	1	---
X0325578	UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL-LOCATION 2	EACH	1	1	---
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	87	87	---
X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	990	990	---
X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	750	750	---
XX006H9	TRAFFIC CONTROL AND PROTECTION (DETOUR)	L SUM	1	1	---
Z0001040	AGGREGATE SUBGRADE 12"	SO YD	600	600	---
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	66	66	---
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SO FT	1,240	1,240	---
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	---
Z0022800	FENCE REMOVAL	FOOT	245	245	---
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	177	177	---
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	144	144	---

*SPECIALTY ITEM

EARTHWORK SCHEDULE		
LOCATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	FURNISHED EXCAVATION (CU YD)
WINN ROAD		
STA 28+00 TO STA 28+15	12	3
STA 28+15 TO STA 28+50	61	27
STA 28+50 TO STA 28+85	82	43
STA 28+85 TO STA 29+00	46	15
STA 29+00 TO STA 29+50	157	48
STA 29+50 TO STA 29+80	91	44
STA 29+80 TO STA 29+85.14	17	9
STA 29+85.14 TO STA 31+28.08	414	0
STA 31+28.08 TO STA 31+35	4	45
STA 31+35 TO STA 31+50	14	74
STA 31+50 TO STA 32+00	122	156
STA 32+00 TO STA 32+50	141	64
STA 32+50 TO STA 32+60	91	32
TOTALS	1252	560

STORM SEWER TAGS

- | | |
|---|--|
| <p>1 EX. CMP 15" INV. = 759.57 (SEE DETAIL ON SHEET 31)</p> <p>2 64 LIN FT P CUL CL D 1 24" @ 3.6% (PIPE SHALL BE PVC IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, ARTICLE 542.03)</p> <p>3 MET END SEC 24 STA. 32+00.00, 45' LT INV. = 757.25</p> <p>4 CB TA 4 DIA T10 F&G STA. 28+96.61, 12.00' LT RIM = 764.51 INV. = 759.71 (E)</p> <p>5 STORM SEWER CL A 2 12" 52 LIN FT @ 3%</p> <p>6 PRC FLAR END SEC 12 STA. 29+25, 36' RT INV. = 758.00</p> <p>7 CB TA 4 DIA T10 F&G STA. 31+72.42, 12.00' LT RIM = 764.01 INV. = 760.51 (E)</p> | <p>8 STORM SEWER CL A 2 12" 41 LIN FT @ 1%</p> <p>9 MH TA 4 DIA T1F CL STA. 31+37.65, 16.17' RT INV. = 760.09 (E) INV. = 760.10 (W)</p> <p>10 STORM SEWER CL A 2 12" 8 LIN FT @ 1% INV. = 760.00 (AT RETAINING WALL)</p> <p>11 MET END SEC 24 STA. 29+19.01, 37.5' LT INV. = 756.24</p> <p>12 16 LIN FT P CUL CL D 1 24" @ 4.3% (PIPE SHALL BE PVC IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, ARTICLE 542.03)</p> <p>13 MET END SEC 24 STA. 29+35.01, 37.5' LT INV. = 755.56</p> |
|---|--|

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 8:40 AM
 PLOT DRIVER: secgrp
 PEN TABLE: standard-trans.tbl



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FILE NAME = 090212_Seq.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

SUMMARY OF QUANTITIES AND EARTHWORK SCHEDULE
 WINN ROAD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 0157	SECTION 07-00012-00-BR	COUNTY MCHENRY	TOTAL SHEETS 41	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63544	

EXISTING LEGEND

- (A) EXISTING GROUND
 - (B) EXISTING AGGREGATE SHOULDER (REMOVAL PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
 - (C) EXISTING ASPHALT SHOULDER (REMOVAL PAID FOR AS PAVMENT REMOVAL)
 - (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 9" TO 12")
 - (E) EXISTING METAL RAILING
 - (F) EXISTING SUPERSTRUCTURE (PPC DECK BEAMS)**
 - (G) EXISTING HOT-MIX ASPHALT OVERLAY (±5" THICK)**
 - (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE)**
 - (I) EXISTING GUARDRAIL
- ▨ INDICATES ITEMS TO BE REMOVED

** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

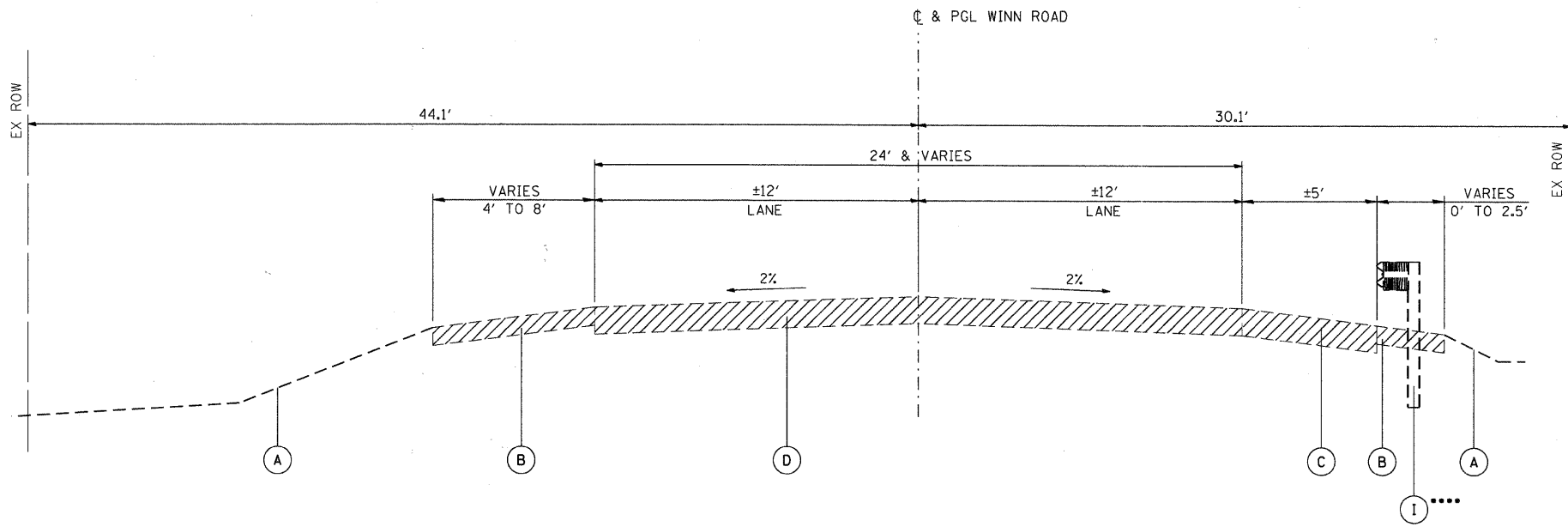
PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50 (2")
 - (2) HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (2")***
 - (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2 1/2")***
 - (4) HOT-MIX ASPHALT BASE COURSE, 7 1/2"***
 - (5) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING, CLASS 4
 - (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' FOOT POST
 - (7) SEGMENTAL CONCRETE BLOCK WALL (SEE BRIDGE PLANS)
 - (8) AGGREGATE SUBGRADE 12"
 - (9) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) (SEE BRIDGE PLANS)
 - (10) CONCRETE PARAPET WALL- CONCRETE SUPERSTRUCTURE (SEE BRIDGE PLANS)
 - (11) BICYCLE RAILING (SEE BRIDGE PLANS)
 - (12) PARAPET RAILING (SEE BRIDGE PLANS)
 - (13) HOT-MIX ASPHALT SHOULDERS, 6"
 - (14) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
 - (15) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
 - (16) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED)
- *** PAID FOR UNDER HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"

HOT-MIX ASPHALT REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ N _{DES}
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL-9.5 mm) (2")	4% @ 70 Gyr.
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL-9.5 mm) (2")	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2 1/2")	4% @ 70 Gyr.
HOT-MIX ASPHALT BASE COURSE, 7 1/2" (HMA BINDER IL-19 mm) (IN 3 LIFTS)	4% @ 70 Gyr.
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2 1/2")	4% @ 70 Gyr.
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19 mm) (10 1/2" TO 7 1/2") (IN 3 LIFTS)	4% @ 70 Gyr.
SHARED USE PATH	
HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50 (2")	4% @ 50 Gyr.
HOT-MIX ASPHALT SHOULDERS, 6"	
HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (IL-9.5 mm) (2")	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (4") (IN 2 LIFTS)	2% @ 30 Gyr.

• THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

• THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

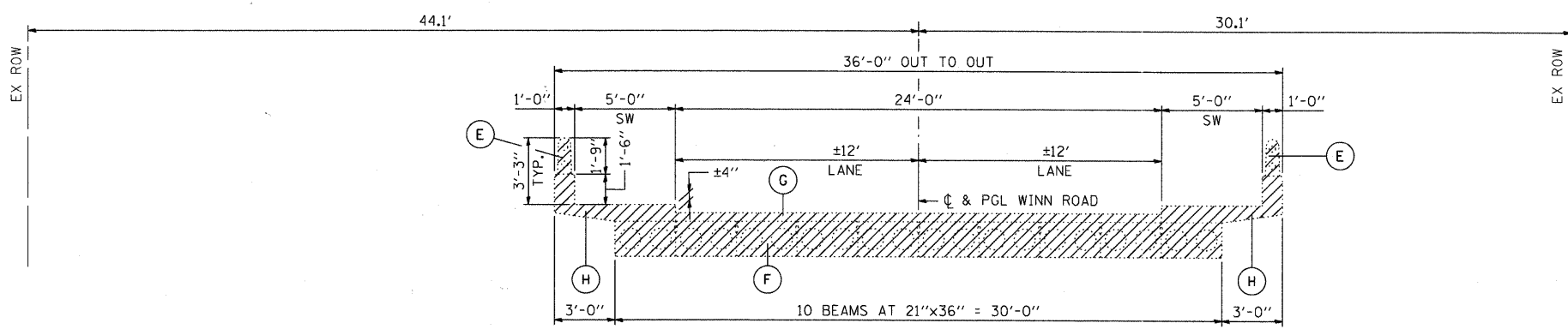


EXISTING ROADWAY TYPICAL SECTION WINN ROAD

STA. 28+00.00 TO STA 29+91.70 (NOTE 1)
STA. 31+21.77 TO STA. 32+60.00

**** STA. 28+74.12 TO STA. 29+27.83

NOTE: FROM 28+00 TO 28+50 HMA - SURFACE REMOVAL BUTT JOINT SEE REMOVAL PLAN.



EXISTING BRIDGE TYPICAL SECTION WINN ROAD

STA. 29+91.70 TO STA 31+21.77

COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: Robert C. Davies
CLIENT: Village of Spring Grove
DATE PLOTTED: 6/23/2011 2:16:53 PM
PLOT DRIVER: c:\p1\typl01.dgn
PEN TABLE: standard-trans.tbl

SEC Group, Inc.
An HR Group Company
420 N. First Street
Mchenry, IL 60050-2136
T 815.385.1778 F 815.385.1791
www.secgroupinc.com

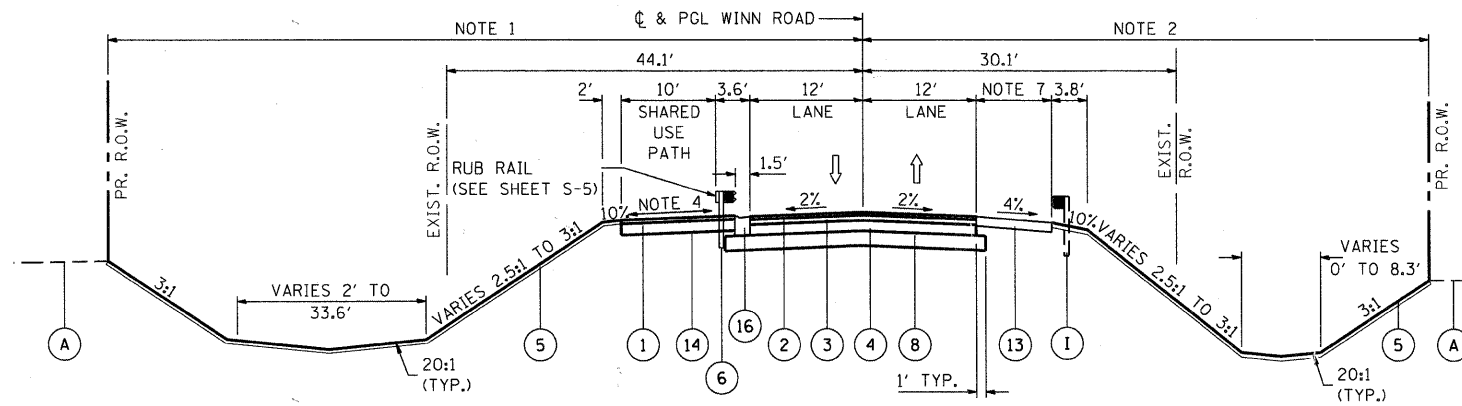
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PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

TYPICAL SECTIONS WINN ROAD

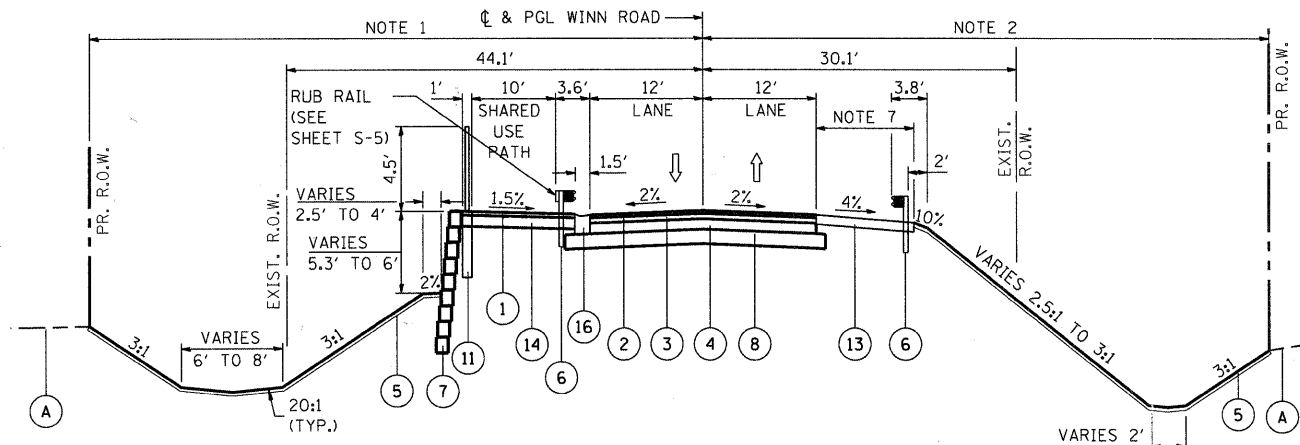
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	4
CONTRACT NO. 63544				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



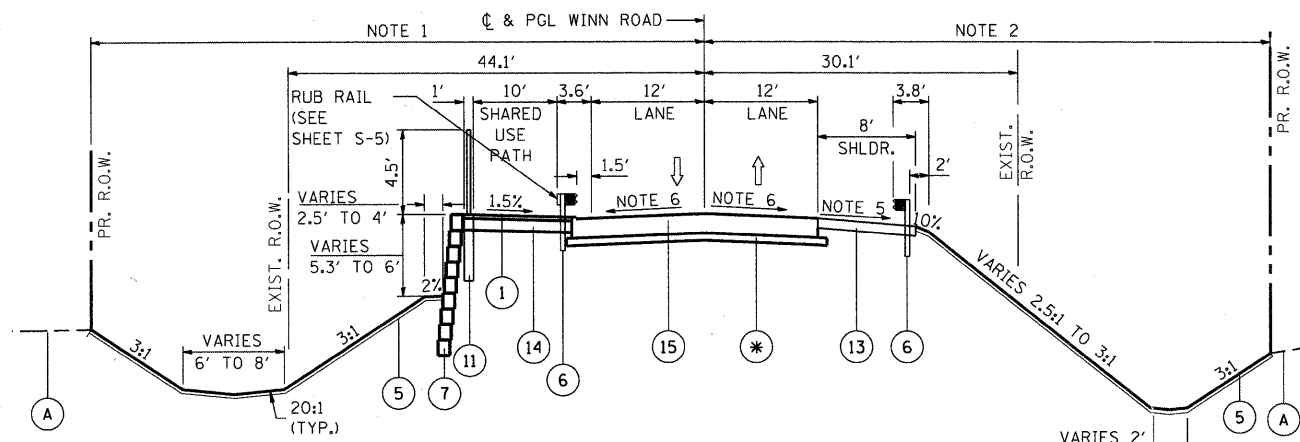
**PROPOSED TYPICAL SECTION
WINN ROAD**

STA. 28+00.00 TO STA. 28+89.19 (NOTE 9)



**PROPOSED TYPICAL SECTION
WINN ROAD**

STA. 28+89.19 TO STA. 29+56.49



**PROPOSED TYPICAL SECTION
WINN ROAD**

STA. 29+56.49 TO STA. 29+86.49

• SEE SHEET S-5

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING AGGREGATE SHOULDER (REMOVAL PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
- (C) EXISTING ASPHALT SHOULDER (REMOVAL PAID FOR AS PAVMENT REMOVAL)
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 9" TO 12")
- (E) EXISTING METAL RAILING
- (F) EXISTING SUPERSTRUCTURE (PPC DECK BEAMS)**
- (G) EXISTING HOT-MIX ASPHALT OVERLAY (±5" THICK)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE)**
- (I) EXISTING GUARDRAIL

INDICATES ITEMS TO BE REMOVED

** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50 (2")
- (2) HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (2")***
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2 1/2")***
- (4) HOT-MIX ASPHALT BASE COURSE, 7 1/2"***
- (5) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING, CLASS 4
- (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' FOOT POST
- (7) SEGMENTAL CONCRETE BLOCK WALL (SEE BRIDGE PLANS)
- (8) AGGREGATE SUBGRADE 12"
- (9) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) (SEE BRIDGE PLANS)
- (10) CONCRETE PARAPET WALL- CONCRETE SUPERSTRUCTURE (SEE BRIDGE PLANS)
- (11) BICYCLE RAILING (SEE BRIDGE PLANS)
- (12) PARAPET RAILING (SEE BRIDGE PLANS)
- (13) HOT-MIX ASPHALT SHOULDERS, 6"
- (14) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
- (15) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
- (16) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED)

*** PAID FOR UNDER HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"

NOTE 1:
VARIES 50' TO 60' STA. 28+00.00 TO STA. 28+85.61
60' STA. 28+85.61 TO STA. 30+39.63
70' STA. 31+06.65 TO STA. 33+04.95

NOTE 2:
VARIES 20' TO 40' STA. 28+00 TO STA. 29+95.63
40' TO 60' STA. 29+50.63 TO STA. 30+20.83
50' TO 60' STA. 30+20+83 TO STA. 33+07.91

NOTE 3:
NOT USED

NOTE 4:
2% SLOPE AWAY FROM ROAD STA. 28+00 TO STA. 28+50
VARIES FROM 2% AWAY FROM ROAD TO 1.5% TOWARD ROAD FROM STA. 28+50 TO STA. 28+89.19
VARIES FROM 1.5% TOWARDS ROAD TO 2% AWAY FROM ROAD FROM STA. 31+27.07 TO STA. 31+57.07

NOTE 5:
VARIES FROM 4% TO 1.5% FROM STA. 29+56.49 TO STA. 29+86.46
VARIES FROM 1.5% TO 4% FROM STA. 31+27.07 TO 31+57.07

NOTE 6:
VARIES FROM 2% TO 1.5% FROM STA. 29+56.49 TO STA. 29+86.49
VARIES FROM 1.5% TO 2% FROM STA. 31+27.07 TO STA. 31+57.07

NOTE 7:
5' STA. 28+50 TO 28+95.75
8' STA. 28+95.75 TO 29+56.49

NOTE 8:
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED) FROM STA. 31+57.07 TO STA. 31+77.42

NOTE 9:
FROM STA 28+00 TO STA 28+50 2" HMA RESURFACING, SEE REMOVAL PLAN AND PLAN AND PROFILE

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:17:00 PM
 FILE NAME: 090221.txd
 PLOT DATE: 6/23/2011
 PEN TABLE: standard.trans.tbl

SEC Group, Inc.
 An HR Group Company
 400 N. First Street
 Mayfield, IL 60150-2138
 P: 815.395.1778 F: 815.395.1781
 www.secgroupinc.com
 *McHenry, IL - Northbrook, IL - Chicago, IL

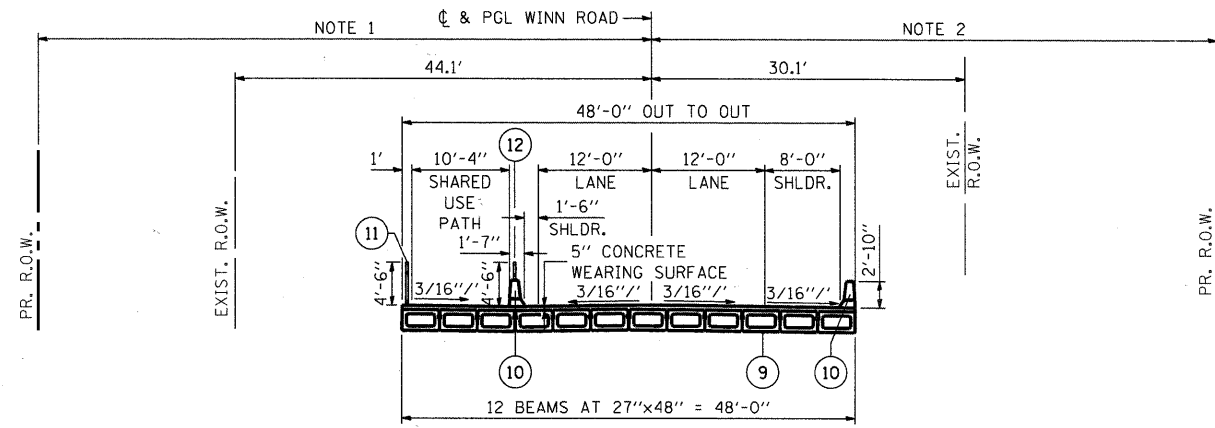
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VILLAGE OF SPRING GROVE

**TYPICAL SECTIONS
WINN ROAD**

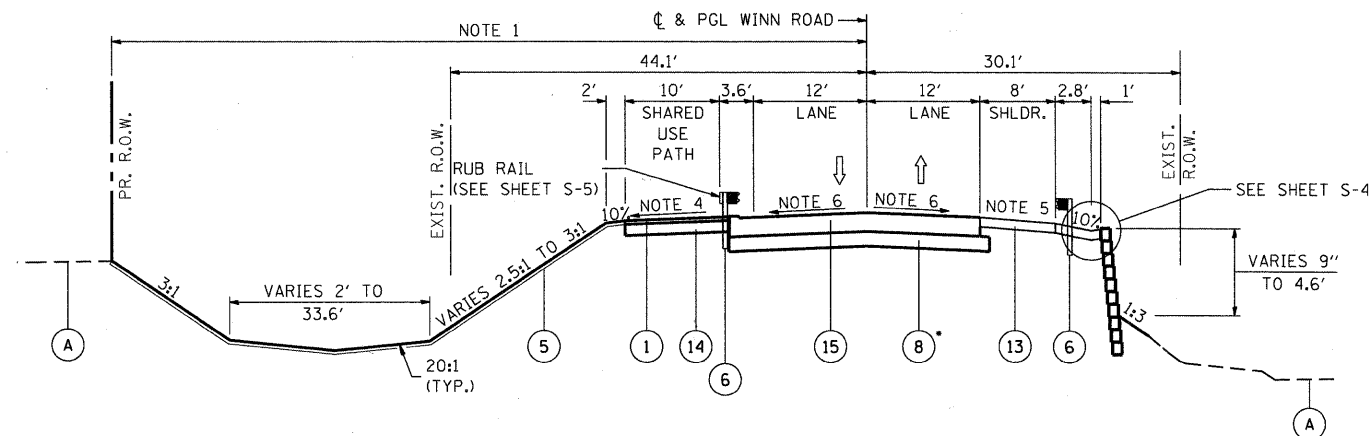
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.
---------------	-----------	-----------	------	---------

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	5
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63544	



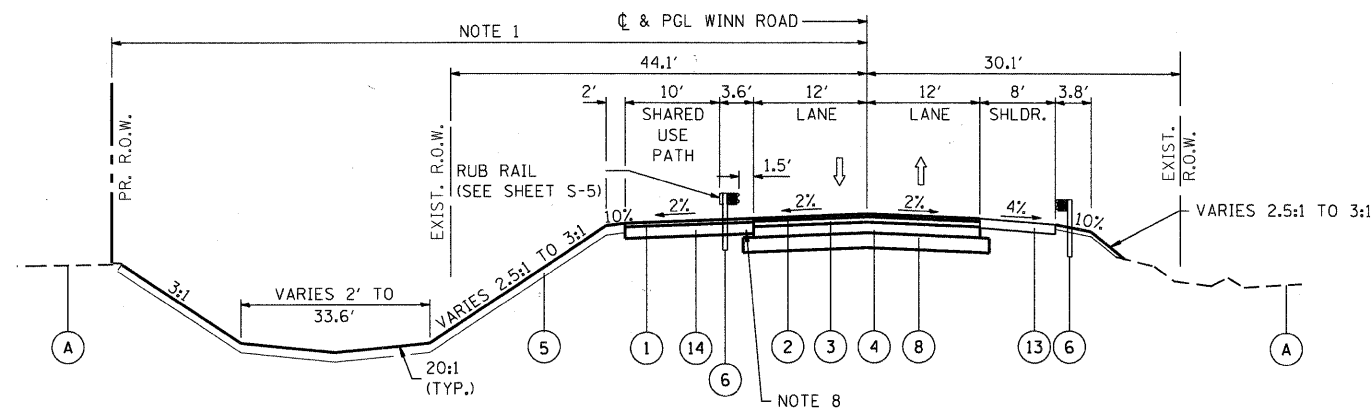
**PROPOSED BRIDGE CROSS SECTION
WINN ROAD**

STA. 29+86.49 TO 31+27.07



**PROPOSED TYPICAL SECTION
WINN ROAD**

STA. 31+27.07 TO STA. 31+57.07
• SEE SHEET S-5



**PROPOSED TYPICAL SECTION
WINN ROAD**

STA. 31+57.07 TO STA. 32+60.00

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING AGGREGATE SHOULDER (REMOVAL PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
- (C) EXISTING ASPHALT SHOULDER (REMOVAL PAID FOR AS PAVEMENT REMOVAL)
- (D) EXISTING ASPHALT PAVEMENT (DEPTH VARIES 9" TO 12")
- (E) EXISTING METAL RAILING
- (F) EXISTING SUPERSTRUCTURE (PPC DECK BEAMS)**
- (G) EXISTING HOT-MIX ASPHALT OVERLAY (±5" THICK)**
- (H) EXISTING SUPERSTRUCTURE (CAST IN PLACE CONCRETE)**
- (I) EXISTING GUARDRAIL

INDICATES ITEMS TO BE REMOVED

** REMOVAL PAID FOR UNDER REMOVAL OF EXISTING STRUCTURE

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50 (2")
 - (2) HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 (2")***
 - (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2 1/2")***
 - (4) HOT-MIX ASPHALT BASE COURSE, 7 1/2"***
 - (5) TOPSOIL FURNISH AND PLACE, 4" AND SEEDING, CLASS 4
 - (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' FOOT POST
 - (7) SEGMENTAL CONCRETE BLOCK WALL (SEE BRIDGE PLANS)
 - (8) AGGREGATE SUBGRADE 12"
 - (9) PRECAST, PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) (SEE BRIDGE PLANS)
 - (10) CONCRETE PARAPET WALL- CONCRETE SUPERSTRUCTURE (SEE BRIDGE PLANS)
 - (11) BICYCLE RAILING (SEE BRIDGE PLANS)
 - (12) PARAPET RAILING (SEE BRIDGE PLANS)
 - (13) HOT-MIX ASPHALT SHOULDERS, 6"
 - (14) SUB-BASE GRANULAR MATERIAL, TYPE B 6"
 - (15) BRIDGE APPROACH SLAB (SEE BRIDGE PLANS)
 - (16) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED)
- *** PAID FOR UNDER HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"

NOTE 1:
VARIES 50' TO 60' STA. 28+00.00 TO STA. 28+85.61
60' STA. 28+85.61 TO STA. 30+39.63
70' STA. 31+06.65 TO STA. 33+04.95

NOTE 2:
VARIES 20' TO 40' STA. 28+00 TO STA. 29+95.63
40' TO 60' STA. 29+50.63 TO STA. 30+20.83
50' TO 60' STA. 30+20+83 TO STA. 33+07.91

NOTE 3:
NOT USED

NOTE 4:
2% SLOPE AWAY FROM ROAD STA. 28+00 TO STA. 28+50
VARIES FROM 2% AWAY FROM ROAD TO 1.5% TOWARD ROAD FROM STA. 28+50 TO STA. 28+89.19
VARIES FROM 1.5% TOWARDS ROAD TO 2% AWAY FROM ROAD FROM STA. 31+27.07 TO STA. 31+57.07

NOTE 5:
VARIES FROM 4% TO 1.5% FROM STA. 29+56.49 TO STA. 29+86.46
VARIES FROM 1.5% TO 4% FROM STA. 31+27.07 TO 31+57.07

NOTE 6:
VARIES FROM 2% TO 1.5% FROM STA. 29+56.49 TO STA. 29+86.49
VARIES FROM 1.5% TO 2% FROM STA. 31+27.07 TO STA. 31+57.07

NOTE 7:
5' STA. 28+50 TO 28+95.75
8' STA. 28+95.75 TO 29+56.49

NOTE 8:
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED) FROM STA. 31+57.07 TO STA 31+77.42

NOTE 9:
FROM STA 28+00 TO STA 28+50 2" HMA RESURFACING, SEE REMOVAL PLAN AND PLAN AND PROFILE

COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: Robert G. Davies
CLIENT: Village of Spring Grove
DATE PLOTTED: 6/23/2011 2:16:44 PM
PLOT DRIVER: gregory.sydoruk
PEN TABLE: standard-trans.tbl



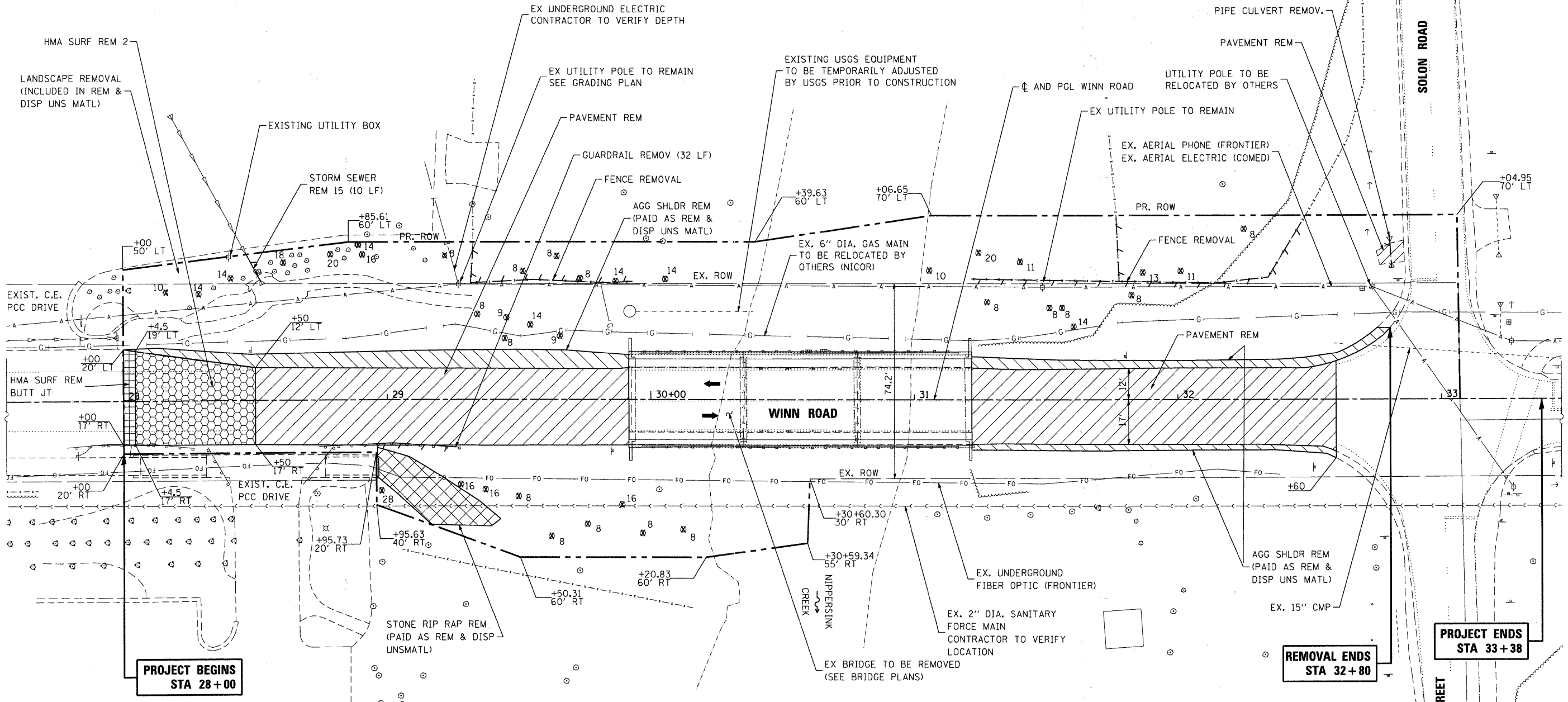
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PLOT DATE = 6/23/2011	DATE = 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

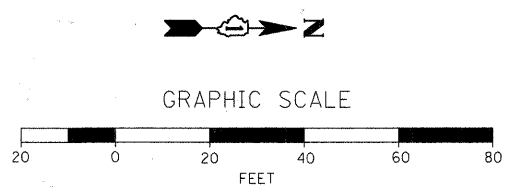
**TYPICAL SECTIONS
WINN ROAD**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	6
CONTRACT NO. 63544				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- LEGEND**
- PAVEMENT REMOVAL
 - AGGREGATE SHOULDER REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
 - STONE RIPRAP REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
 - TREE REMOVAL OF GIVEN SIZE (PAID AS TREE REMOVAL, 6 TO 15 UNITS DIAMETER, OR TREE REMOVAL, OVER 15 UNITS DIAMETER)
 - HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
 - HOT MIX ASPHALT SURFACE REMOVAL 2"



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:17:54 PM
 FILE NAME: 090212.REM.dgn
 PLOT DRIVER: pdtcalr
 PEN TABLE: Standard+Trans.tbl

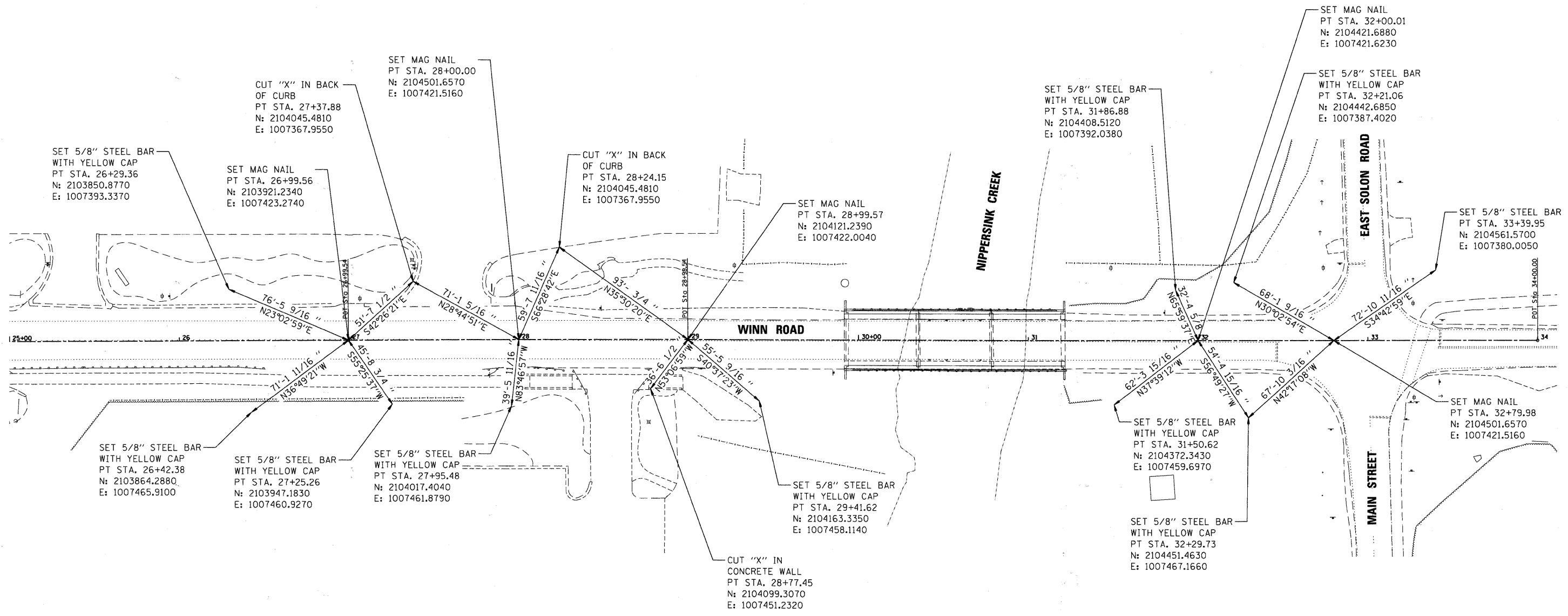
SEC Group, Inc.
 A Professional Design Firm # 184-000105
 400 N. First Street
 Mchenry, IL 60050-2108
 P: 815.305.1775 F: 815.305.1751
 www.secgroupinc.com

USER NAME = whood	DESIGNED - KMA	REVISED -
FILE NAME = 090212.REM.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 1"=20'	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

REMOVAL PLAN	
WINN ROAD	
SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	7
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 63544



BENCHMARK

BENCHMARK: RAILROAD SPIKE IN EAST FACE OF WOOD POWER POLE LOCATED ON THE WEST SIDE OF WINN ROAD AND APPROXIMATELY 715 FEET NORTH OF THE CENTERLINE OF MAIN STREET. ELEVATION = 788.15



GRAPHIC SCALE



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:17:31 PM
 FILE NAME: 090212.txdgn
 PLOT DRIVER: pdrcad
 PEN TABLE: standard-trans.tbl

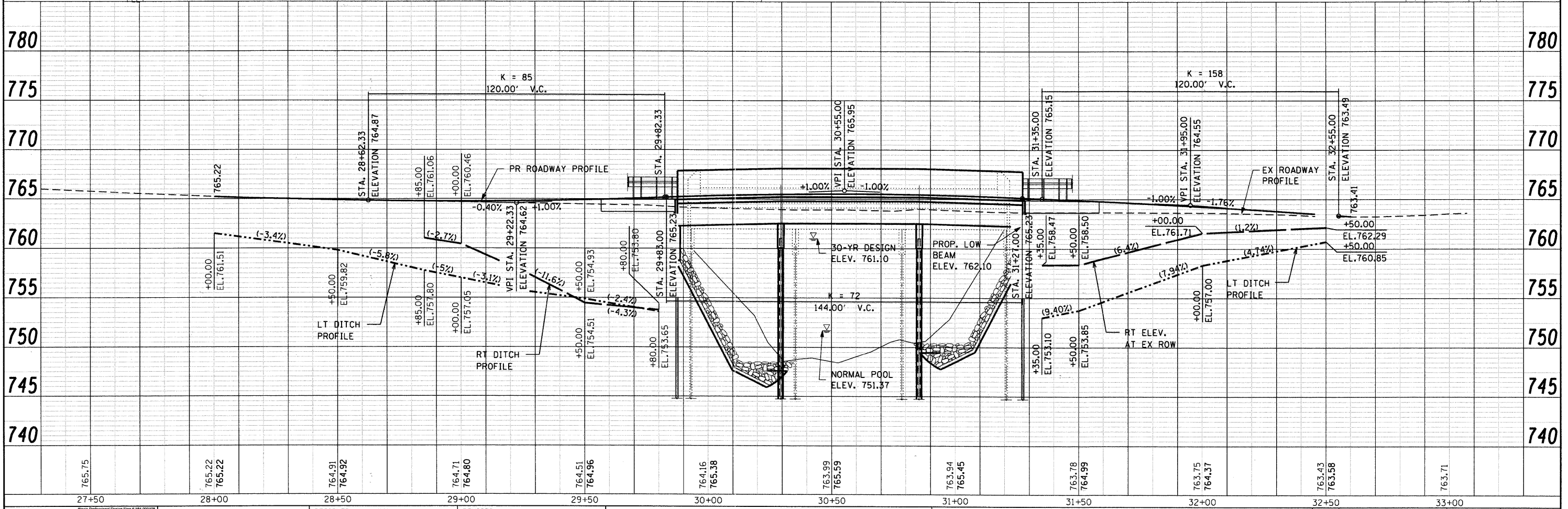
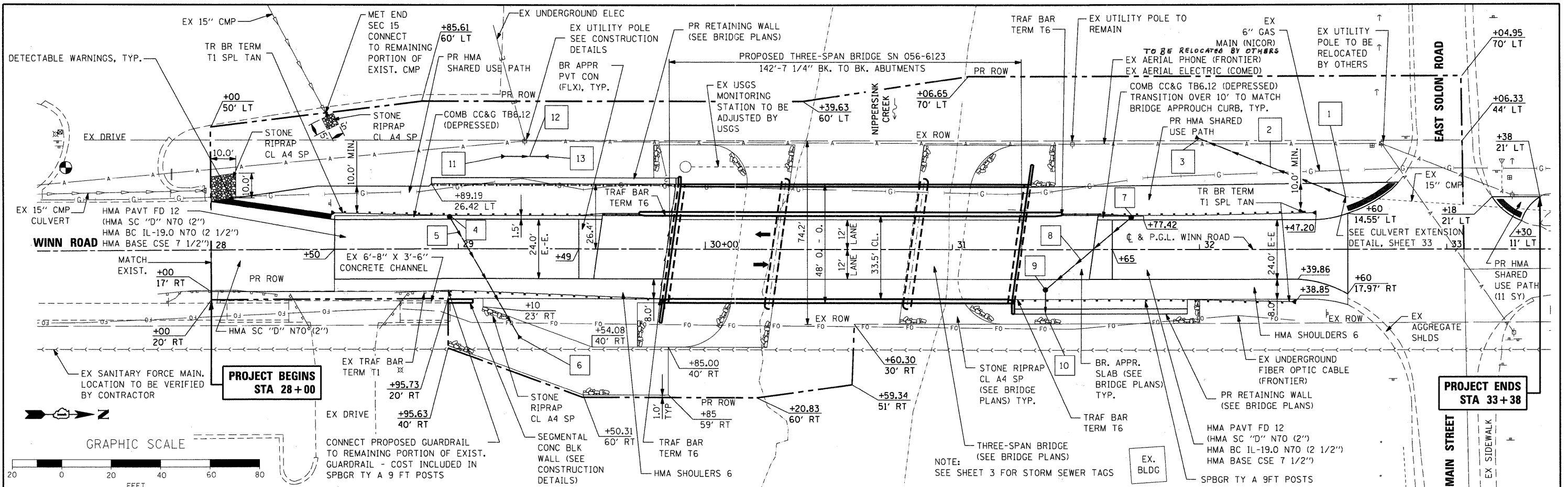
SEC Group, Inc.
 An HR Green Company
 601 N. First Street
 Mchenry, IL 60050-2138
 T 815.385.1778 F 815.385.1791
 www.secgroupinc.com
 *McHenry, IL, Woodstock, IL, Alton, IL, Chicago, IL

USER NAME = whood	DESIGNED - KMA	REVISED -
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PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

ALIGNMENT AND TIES		WINN ROAD	
SCALE: 1"=30'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63544	



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:14:40 PM
 FILE NAME: 090222.pnp.dgn
 PLOT NUMBER: 090222.pnp.tbl
 PEN TABLE: 090222.pnp.tbl

SEC Group, Inc.
 An IRI Group Company
 400 N. Front Street
 McHenry, IL 60050-2136
 T 815.385.1778 F 815.388.1791
 www.secgroup.com
 McHenry, IL - Rockford, IL - New Lenox, IL - Chicago, IL

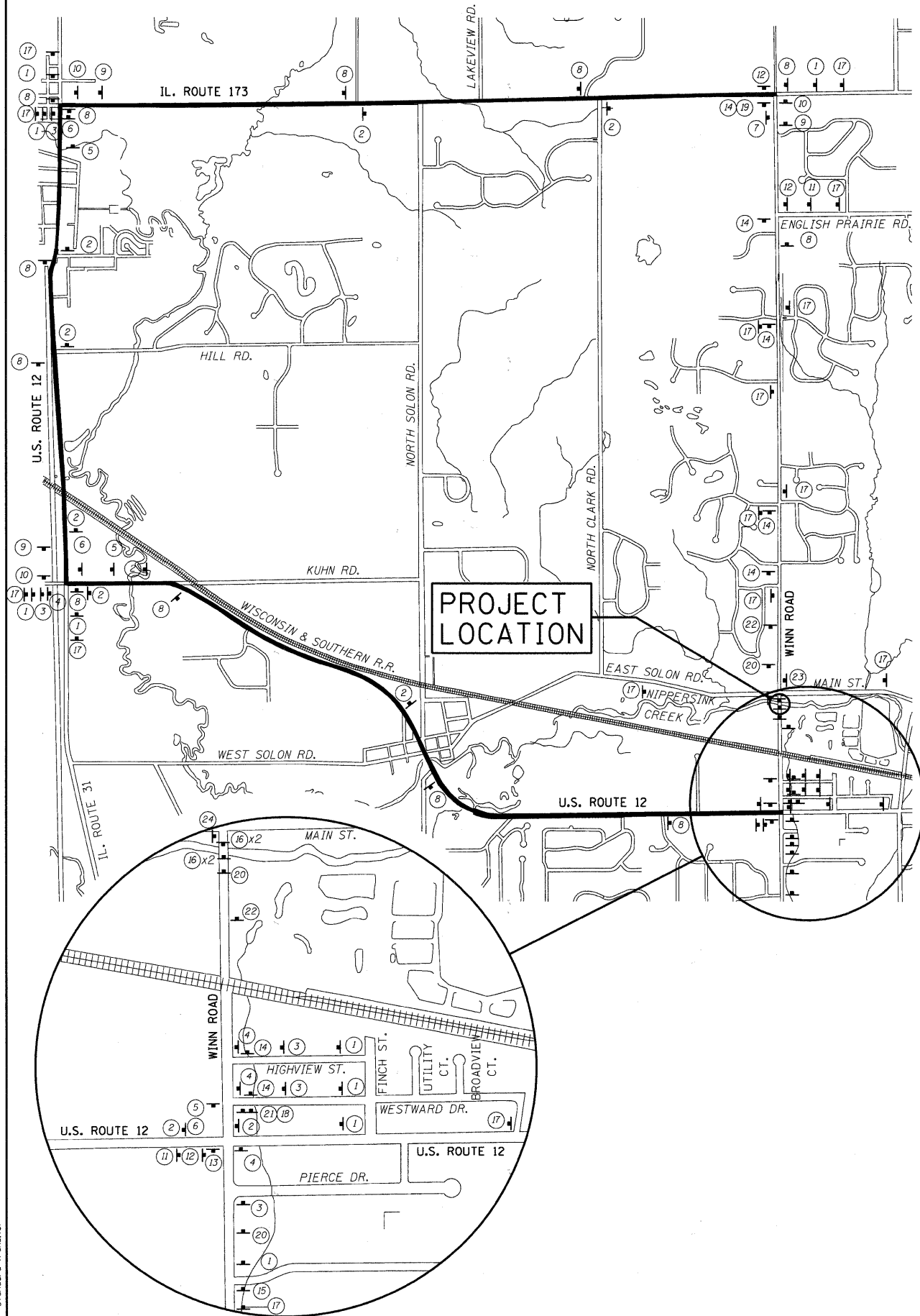
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PLOT SCALE = 1"=20'	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE
 PLAN AND PROFILE
WINN ROAD
 SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
157	07-00012-00-BR	McHENRY	41	9
CONTRACT NO. 63544				

DETOUR GENERAL NOTES

1. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING HAS BEEN ERECTED IN ACCORDANCE WITH THE DETOUR PLAN.
2. THE ENGINEER, VILLAGE OF SPRING GROVE POLICE DEPARTMENT, ILLINOIS DEPARTMENT OF TRANSPORTATION, AND THE MCHENRY COUNTY DIVISION OF TRANSPORTATION SHALL BE NOTIFIED IN WRITING AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
3. 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, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," AND AS DIRECTED BY THE ENGINEER.
4. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE.
5. ADDITIONAL SIGNING AND/OR BARRICADES DEEMED NECESSARY BY THE ENGINEER SHALL BE PROVIDED AND INSTALLED AT NO ADDITIONAL COST.
6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE, (INCLUDING A 24-HR EMERGENCY NUMBER) AND HIS REPRESENTATIVES SHALL BE RESPONSIBLE FOR THE DETOUR SIGNING, PRIOR TO THE START OF WORK AT THE PRECONSTRUCTION CONFERENCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL DETOUR AND CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGNS.
8. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WITH THE DETOUR IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.
9. ALL DETOUR SIGNING SHALL BE POST MOUNTED.
10. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR IN LIKE-NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY, INCLUDING SUNDAYS AND HOLIDAYS.
12. THE "ROAD CLOSED" (R11-2 SIGN SHALL BE MOUNTED ABOVE THE TOPS OF THE TYPE III BARRICADES. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINES OF THE SUPPORTS.
13. THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH EACH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON THE BACK SIDES OF THE BARRICADES.
14. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARDS SPECIFICATIONS SHALL APPLY.
15. DURING NON-WORKING HOURS THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE TYPE III BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNS, INCLUDING CUTTING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
17. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE THE ROAD IS TO BE REOPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
18. ALL WORK REQUIRED FOR DETOUR SIGNING SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR."
19. SIDEWALK CLOSED SIGNS SHALL BE PLACED AT ALL FOUR QUADRANTS OF EXISTING BRIDGE. COST INCLUDED IN "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR."



SIGN LEGEND

W20-2-4848 WINN ROAD SPECIAL NORTH WINN ROAD SPECIAL M4-9-3030 NORTH WINN ROAD SPECIAL M4-9L-3030 NORTH WINN ROAD SPECIAL M4-9L-3030 NORTH WINN ROAD SPECIAL M4-9R-3030	M4-9R-3024 NORTH WINN ROAD SPECIAL M4-8A-2418 SOUTH WINN ROAD SPECIAL M4-9-3030 SOUTH WINN ROAD SPECIAL M4-9L-3030 SOUTH WINN ROAD SPECIAL M4-9L-3030	SOUTH WINN ROAD SPECIAL M4-9R-3030 SOUTH WINN ROAD SPECIAL M4-8A-2418 ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY R11-3A-6030 ROAD CLOSED AHEAD W20-2-4848 ROAD CLOSED (TYPE III BARRICADE) R-11-2-4830	<p>EFFECTIVE [DATE]</p> WINN ROAD IN SPRING GROVE CLOSED BETWEEN U.S. ROUTE 12 AND MAIN ST. USE U.S. ROUTE 12 AND IL RTE 173 INFO 60X30 M4-10L M4-10R ROAD CLOSED 500 FT W20-3 ROAD CLOSED TO THRU TRAFFIC R11-4 ROAD CLOSED 1000 FT W20-3 R3-2 R3-1
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COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:58:01 PM
 FILE NAME: 09022.Drv.dgn
 PLOT DRIVERS: pdt.drv
 PEN TABLE: StandardTrans.tbl

<p>SEC Group, Inc. An HR Group Company 401 N. Front Street Mokena, IL 60450-2108 P: 815.385.1778 F: 815.385.1791 www.secgroupinc.com Mokena, IL • Mokena, IL • New Lenox, IL • Chicago, IL</p>	USER NAME = whood FILE NAME = 09022.Drv.dgn PLOT SCALE = N.T.S. PLOT DATE = 6/23/2011	DESIGNED - KMA DRAWN - WJH CHECKED - RGD DATE - 6/23/11	REVISED - REVISED - REVISED - REVISED -
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VILLAGE OF SPRING GROVE

TEMPORARY DETOUR PLAN WINN ROAD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

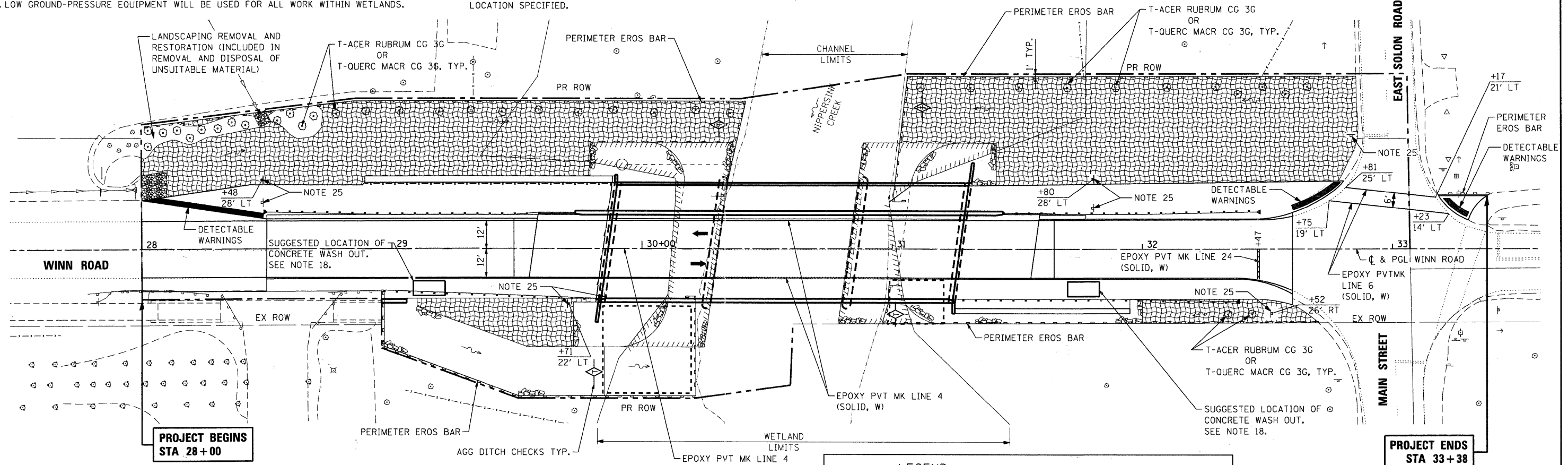
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63544	

EROSION CONTROL NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO EARTHWORK.
2. THE QUANTITIES SHOWN FOR AGGREGATE DITCH CHECKS ARE MEASURED AS PER TON, HAY OR STRAW BALES ARE NOT TO BE USED.
3. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN SEVEN (7) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.
5. STABILIZATION MEASURES SHALL BE INITIATED WITHIN 7 DAYS OF CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASING IN AREAS WHERE IT WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
6. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEED. SEE BDE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL.
7. THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE ENGINEER OR THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER.
8. THE MCHENRY SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND TWO WEEKS PRIOR TO FINAL INSPECTION.
9. LOW GROUND-PRESSURE EQUIPMENT WILL BE USED FOR ALL WORK WITHIN WETLANDS.

10. THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT. THE ENGINEER WILL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL INSPECTIONS.
11. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 5H:1V AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
12. PERIMETER EROSION BARRIER SHALL BE INSTALLED PRIOR TO EARTH WORK AND WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
13. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY OR DIRECTED BY THE ENGINEER.
14. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
15. ALL MATERIALS USED FOR TEMPORARY CONSTRUCTION ACTIVITIES WILL BE REMOVED TO UPLAND AREAS IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY.
16. A STAMPED AND SIGNED COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES AND BE PRESENTED WHEN REQUESTED BY MCHENRY SWCD, U.S. ARMY CORP OF ENGINEERS OR ANY OTHER AUTHORIZED AGENCY.
17. SEEDING MIXTURE SHALL BE CLASS TYPE 4 AS DETAILED IN SECTION 250 OF THE STANDARD SPECIFICATIONS. PLANTING TIMES ARE LIMITED TO EARLY SPRING TO JUNE 1 AND AUGUST 1 TO SEPTEMBER 1.
18. THE CONTRACTOR WILL BE REQUIRED TO HAVE A DESIGNATED CONCRETE WASH OUT AREA DURING ALL CONCRETE POURS. LOCATION TO BE COORDINATED BETWEEN THE CONTRACTOR AND ENGINEER.
19. THE COST FOR DEWATERING, FILTERING AND AGENCY COORDINATION SHALL BE INCLUDED IN THE COST OF "UNDERWATER STRUCTURE EXCAVATION PROTECTION, SPECIAL" AT THE LOCATION SPECIFIED.

20. OTHER THAN TO INSTALL AND REMOVE THE EXCAVATION PROTECTION, NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR NIPPERSINK CREEK SHALL BE ISOLATED FROM CREEK FLOWS AND DEWATERED PRIOR TO THE COMMENCEMENT OF WORK. THE DIVERSION/ISOLATION OF THE CREEK FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, ETC.). EARTHEN DIVERSIONS ARE NOT ALLOWED.
21. THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE ARMY CORPS OF ENGINEERS MUST BE IN AGREEMENT WITH METHOD OF DIVERSION/ISOLATION, DEWATERING AND FILTERING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
22. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE OUTLET SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS OTHERWISE REQUIRED.
23. WHEN DEWATERING THE CONSTRUCTION AREA, ALL WATER MUST BE FILTERED PRIOR TO REJOINING THE STREAM FLOW. DEWATERING METHODS SHALL BE CHOSEN BASED ON SITE CONDITIONS, CONSTRAINTS AND SEDIMENT LOADS. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER METHODS APPROVED BY THE ENGINEER. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER QUALITY TO THE SATISFACTION OF THE ENGINEER.
24. THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE HEAVY DUTY EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE SHALL BE STABLE ENOUGH TO ACCEPT FLOWS AND SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER.
25. EXIST. SIGNS TO BE TEMPORARILY REMOVED, STORED AND RE-INSTALLED AT SAME LOCATION OR AS SHOWN TO THE SATISFACTION OF THE ENGINEER. COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).
26. NO EQUIPMENT IS ALLOWED TO OPERATE IN THE WATER OR ON THE STREAMBED. IF EQUIPMENT IS NEEDED TO OPERATE IN THE WATER OR ON THE STREAMBED TO CONSTRUCT THE DIVERSION OR PERMANENT IMPROVEMENTS, A TEMPORARY IN-STREAM WORK PAD WILL BE USED IN ACCORDANCE WITH CHECK SHEET #8 OF THE RECURRING SPECIAL PROVISIONS. IF THE CONTRACTOR DETERMINES A TEMPORARY IN-STREAM WORK PAD IS NEEDED, THE CONTRACTOR SHALL PROVIDE A PLAN AND DETAILS OF THE WORK PAD TO ACOE FOR APPROVAL PRIOR TO CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE ACCORDING TO CHECK SHEET #8 OF THE RECURRING SPECIAL PROVISIONS. COORDINATE WITH BRIDGE GENERAL NOTES ON S-2.



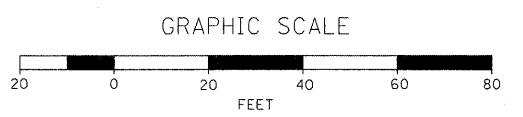
TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES AND ERECT PERIMETER EROSION BARRIER ALONG SITE BOUNDARIES PRIOR TO EARTHWORK.
2. INSTALL DITCH CHECKS IMMEDIATELY AFTER DITCH GRADING IS COMPLETED.
3. INSTALL TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 4, AND EROSION CONTROL BLANKET (FINAL STABILIZATION).

SEE SHEET 2 FOR SUGGESTED CONSTRUCTION SEQUENCE

LEGEND

	PERIMETER EROSION BARRIER		HEAVY DUTY EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING, AND SEEDING CLASS 4
	EXISTING R.O.W.		AGGREGATE DITCH CHECK
	DIRECTION OF FLOW		AREA DESIGNATED FOR DEWATERING
	PERMANENT WETLAND IMPACT AREA		



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:48:11 PM
 FILE NAME: 090212_Ero.dgn
 PLOT DRIVER: pdm11n
 PEN TABLE: Standard Trans.tbl

SEC Group, Inc.
 An HR Green Company
 601 N. First Street
 Maitland, FL 32751-2138
 1-813-965-1778 | 1-813-965-1781
 www.secgroup.com
 *Maitland, FL *Orlando, FL *Altoona, IL *Chicago, IL

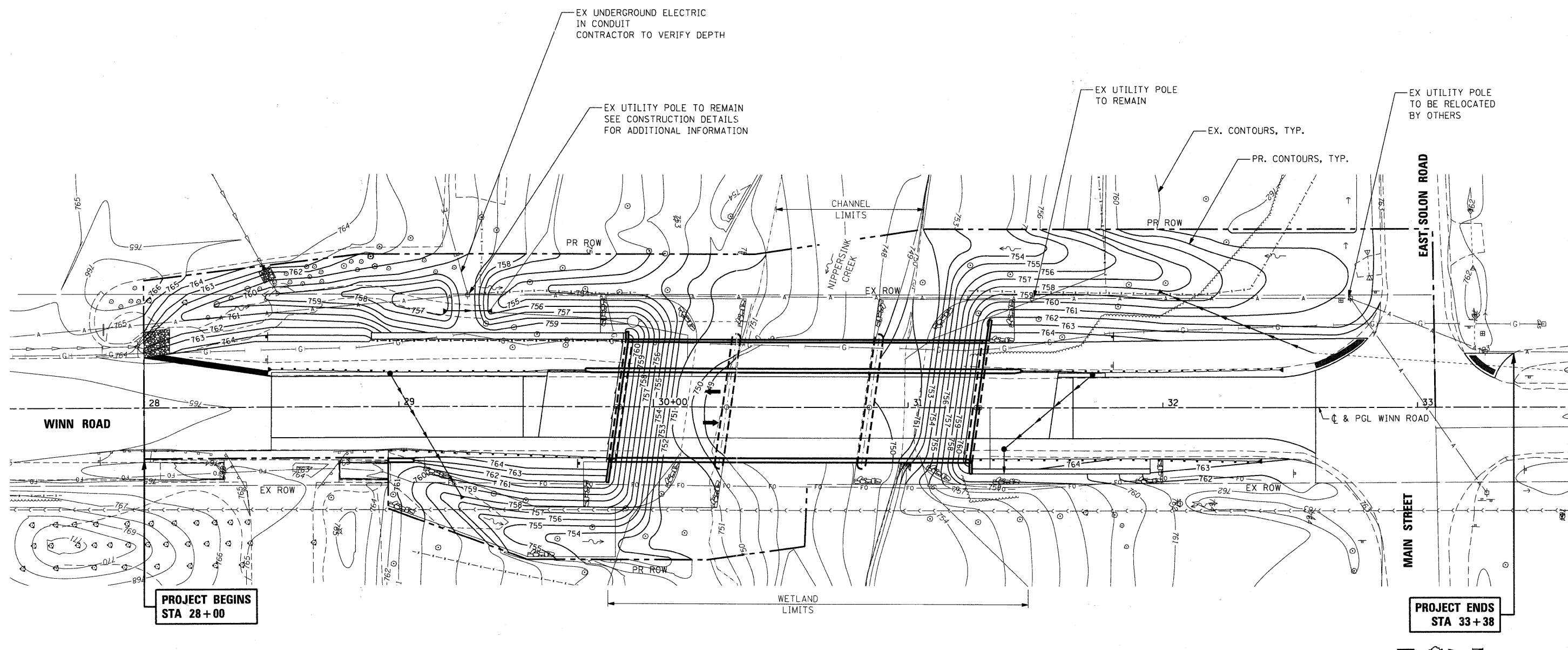
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PLOT SCALE =		CHECKED -	REVISED -
PLOT DATE =	6/23/2011	DATE -	6/23/11

VILLAGE OF SPRING GROVE

EROSION CONTROL, PAVEMENT MARKING AND RESTORATION PLAN
WINN ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 63544



COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:18:34 PM
 FILE NAME: 090212.Grd.dgn
 PLOT DRIVER: pdt.plt
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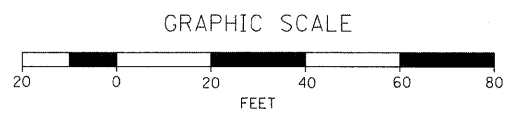

SEC Group, Inc.
 An ISO 9001 Company
 400 N. First Street
 Mchenry, IL 60050-2198
 T 815.386.1773 F 815.386.1781
 www.secgroupinc.com
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USER NAME = whood	DESIGNED - KMA	REVISED -
FILE NAME = 090212.Grd.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 1"=20'	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE
GRADING PLAN
WINN ROAD

SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	12
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



Benchmark:
Railroad spike in east face of wood power pole located on the west side of Winn Road and approximately 715 feet north of the centerline of Main Street. Elevation = 788.15 (NAVD88)

Existing Structure:
This existing structure SN 056-3123 was built in 1964 by the Richmond Township Road District as a three-span precast, prestressed concrete deck beam bridge supported on pile bent abutments and piers. The design loading used was H15-S12-44. Structure to be removed and replaced. Road to be closed during construction. Traffic to be maintained with temporary detour route during construction.

Salvage:
No salvage

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	759.08	744.40	746.30	759.11

LEGEND

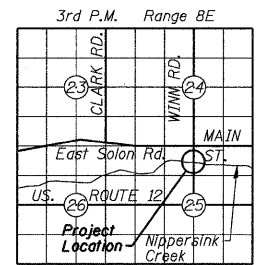
- G— Gas (to be relocated by others)
- FO— Fiber Optic (remaining in place)
- A— Aerial Utilities (remaining in place)
- S— Sanitary (remaining in place)

◆ Soil Boring Location

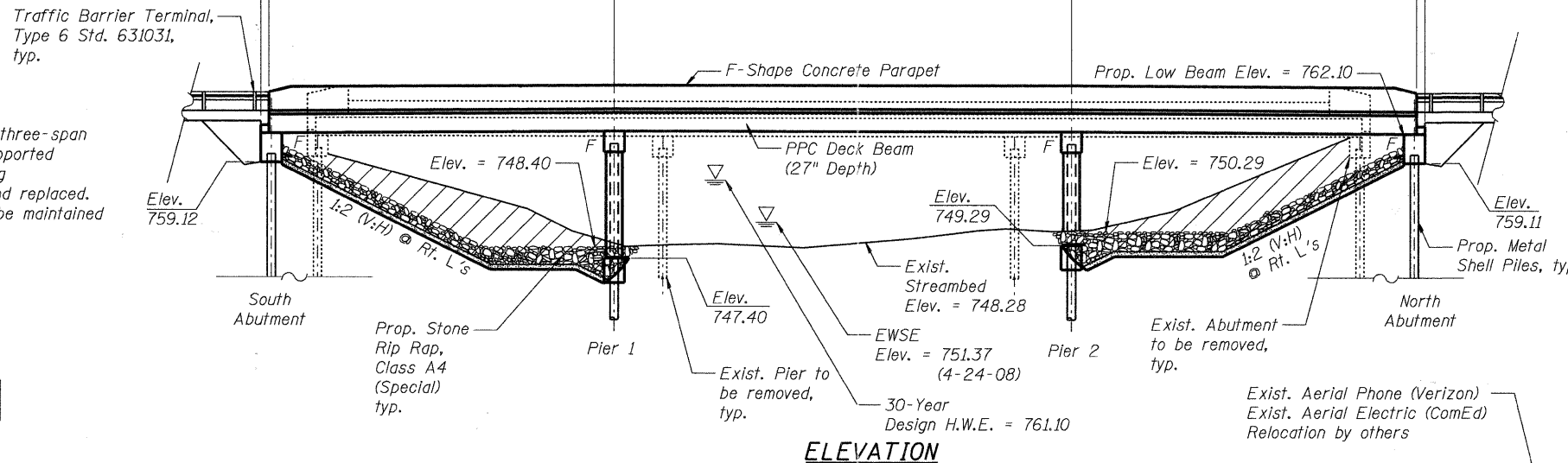
▨ Permanent Wetland Impact (Impact to Waters of the U.S.)

▨ Removal and Disposal of Unsuitable Material (See Roadway Plans)

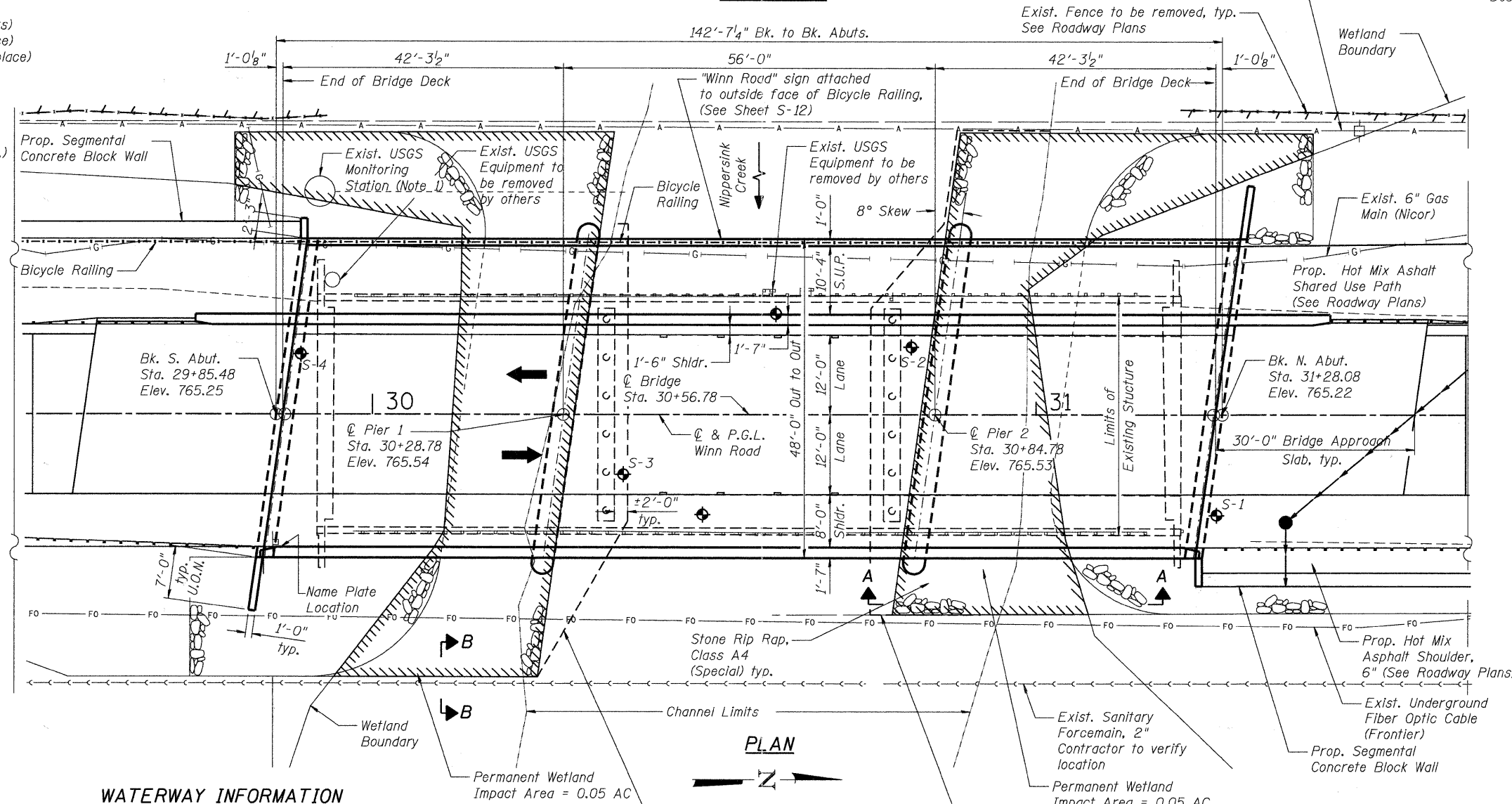
Total Permanent Wetland Impact = 0.10 AC



LOCATION SKETCH



ELEVATION



PLAN

WATERWAY INFORMATION

Drainage Area = 194 sq. mi. Low Grade Elev. 763.23 @ Sta. 32+60

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	5600	1147	1409	761.1	0.1	0.1	760.2	760.2
Base	50	6331	1197	1493	761.7	0.5	0.1	762.2	761.8
Overtopping	100	7460	1197	1558	762.6	0.6	0.4	763.2	763.0
	>100	8150		1558	762.9		0.5		763.4

Note 1. Coordinate rip rap slope protection layout with USGS station access door. Maintain access to door.

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'ci = 5,000 psi
f'c = 6,000 psi
fpu = 270,000 psi (1/2" φ low lax strands)
fpbt = 201,960 psi (1/2" φ low lax strands)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.112
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.200
Soil Site Class = E



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 LRFD Bridge Design Specifications".

Robert G. Davis 4/27/2011
Structural Engineer Expires: 11/30/2012
SEC Group Inc.
An HR Green Company

**GENERAL PLAN AND ELEVATION
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 7/1/11

SHEET NO. S-1 S-20 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	13
FED. ROAD DIST. NO. 1 ILLINOIS				CONTRACT NO. 63544	
FED. AID PROJECT				BRM-8003 (921)	

SEC GROUP INC.
An HR Green Company
420 N. Front Street, McHenry, IL 60050
t. 815.385.1778 f. 815.385.1781
www.secgroupinc.com
McHenry, IL • Yorkville, IL • New Lenox, IL • Chicago, IL

FILE NAME: 090212.dwg
PLOT DRIVER: pldrvr
PEN TABLE: STANDARD-TRANS.ZB

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

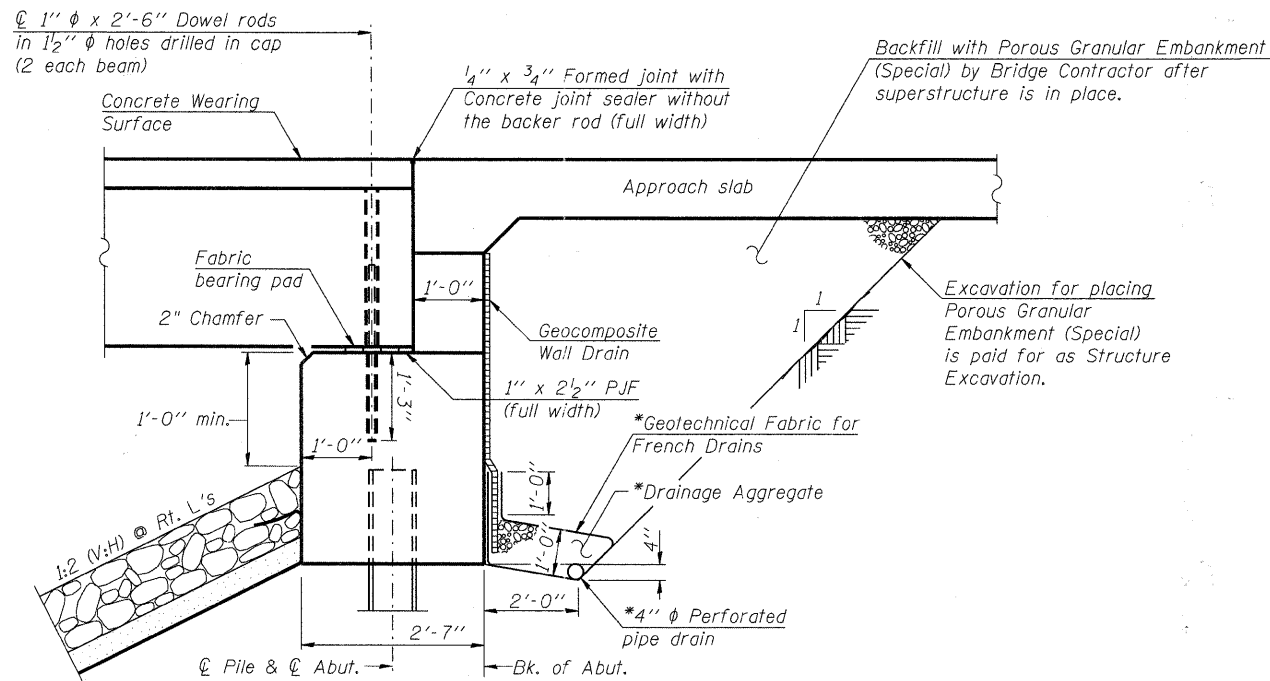
Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The Contractor shall adjust final rip rap adjacent to stream gage to provide / maintain access to gage station doorway.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDOT Floodway permit and ACOE Section 404 permit numbers as shown in the contract documents.

The existing abutment caps, pier caps and piles shall be removed 2'-0" below finished grade (or streambed) at a minimum, and as necessary to construct the new abutments, piers and / or rip rap. Cost included under Removal of Existing Structures.

Slipforming of parapets is not allowed

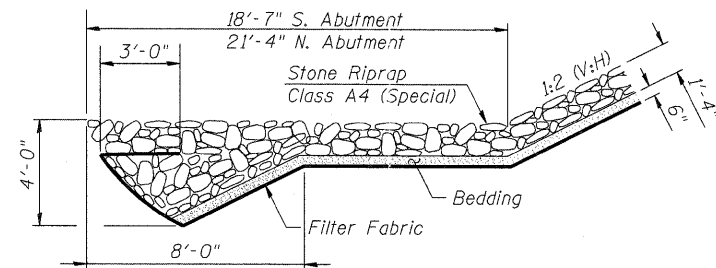


SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

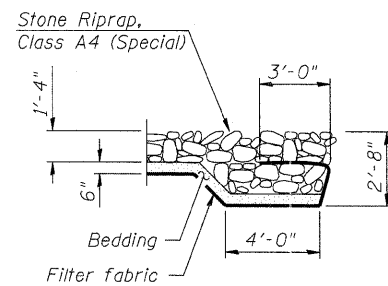
*Included in the cost of Pipe Underdrains for Structures.

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes or retaining wall as shown on S-3. Except for the southwest corner, the pipes shall drain into concrete headwalls. The Porous Granular Embankment (Special) shall stop at the limits of the select granular backfill for the Segmental Concrete Block Wall at the Southwest corner. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). See S-3 and S-4.



SECTION A-A

(See S-1)



SECTION B-B

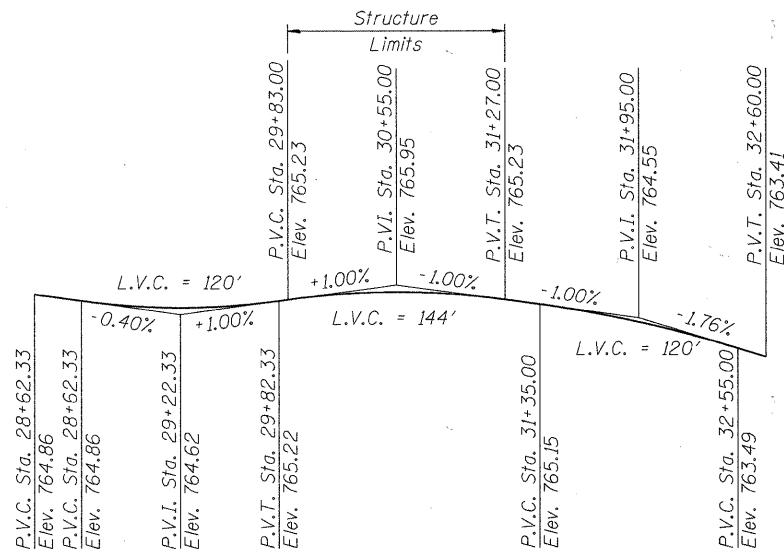
(See S-1)

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 Bill of Material and General Notes
- S-3 Southwest Retaining Wall Details
- S-4 Northeast Retaining Wall Details
- S-5 Bridge Approach Slab Details
- S-6 Bridge Approach Slab Details
- S-7 Approach Pavement Elevations
- S-8 Deck Plan and Cross Section
- S-9 Superstructure Details
- S-10 Superstructure Details
- S-11 West Parapet Elevation
- S-12 East Parapet Elevation
- S-13 Railing Details
- S-14 South Abutment Details
- S-15 North Abutment Details
- S-16 Pier 1 Details
- S-17 Pier 2 Details
- S-18 Metal Shell Pile Details
- S-19 Soil Boring Logs
- S-20 Soil Boring Logs

TOTAL BILL OF MATERIAL

TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yds.		87	87
Filter Fabric	Sq. Yds.		1,347	1,347
Protective Coat	Sq. Yds.	842		842
Removal of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yds.		490	490
Concrete Structures	Cu. Yds.		202.6	202.6
Concrete Superstructures	Cu. Yds.	122.0		122.0
Bridge Deck Grooving	Sq. Yds.	778.0		778.0
Concrete Encasement	Cu. Yds.		15.4	15.4
Precast, Prestressed Concrete Deck Beams, 27 inch	Sq. Ft.	6,740		6,740
Reinforcement Bars, Epoxy Coated	Pounds	38,870	16,470	55,340
Bicycle Railing	Foot	241		241
Parapet Railing	Foot	166		166
Furnishing Metal Shell Piles 14"x0.250"	Foot		2,296	2,296
Driving Piles	Foot		2,296	2,296
Test Pile, Metal Shells	Each		4	4
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yds.		55	55
Concrete Headwall For Pipe Drains	Each		3	3
Underwater Structure Excavation Protection, Special-Location 1	Each		1	1
Underwater Structure Excavation Protection, Special-Location 2	Each		1	1
Stone Riprap, Class A4 (Special)	Ton		790	790
Concrete Wearing Surface, 5"	Sq. Yds.	750		750
Asbestos Bearing Pad Removal	Each	66		66
Segmental Concrete Block Wall	Sq. Ft.		1200	1200
Pipe Underdrains for Structures, 4"	Foot		144	144



PROFILE GRADE

(along center roadway)

NIPPERSINK CREEK
BUILT 20__ BY
VILLAGE OF SPRING GROVE
SEC. 07-00012-00-BR
F.A.U. RT. 0157 STA. 30+56.78
STRUCTURE NO. 056-6123
LOADING HL-93

NAME PLATE

See Std. 515001

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

BILL OF MATERIAL AND GENERAL NOTES

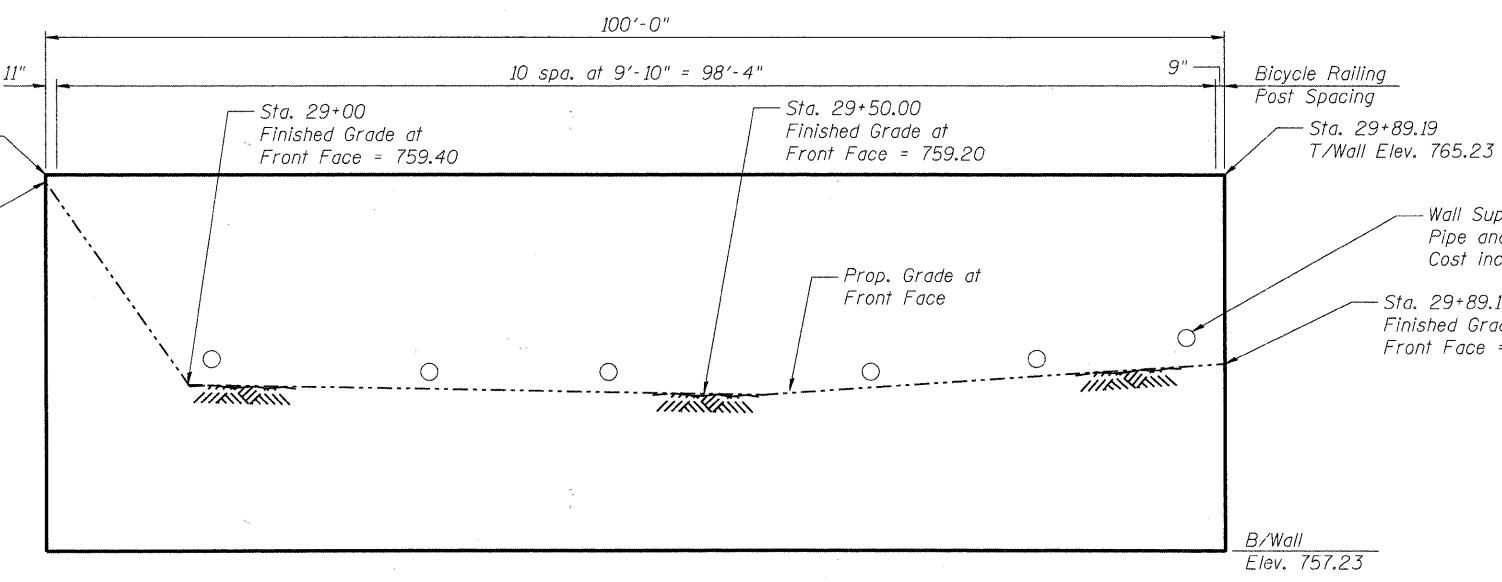
**WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 6/23/11

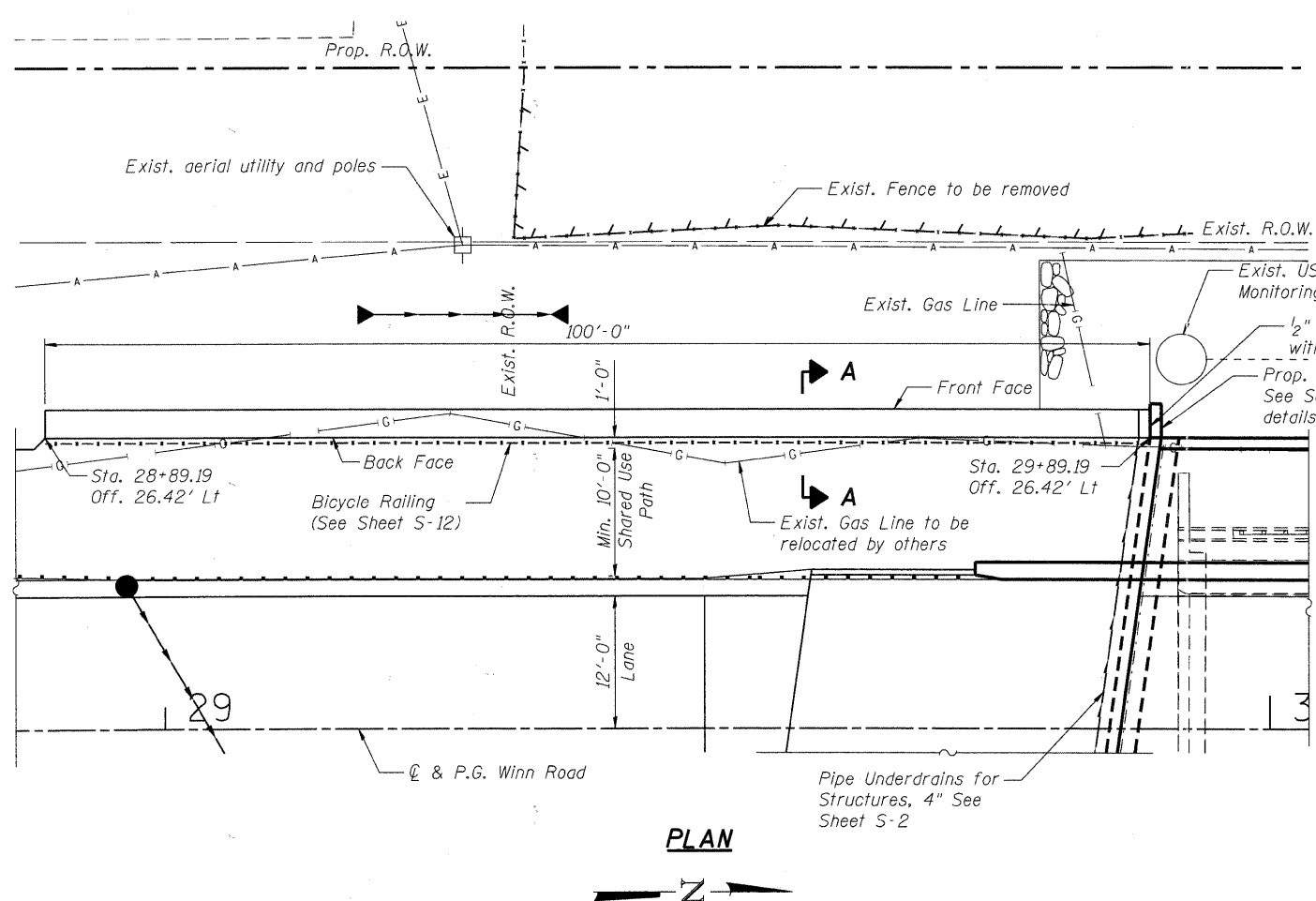
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CONTRACT NO. 63544			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)		

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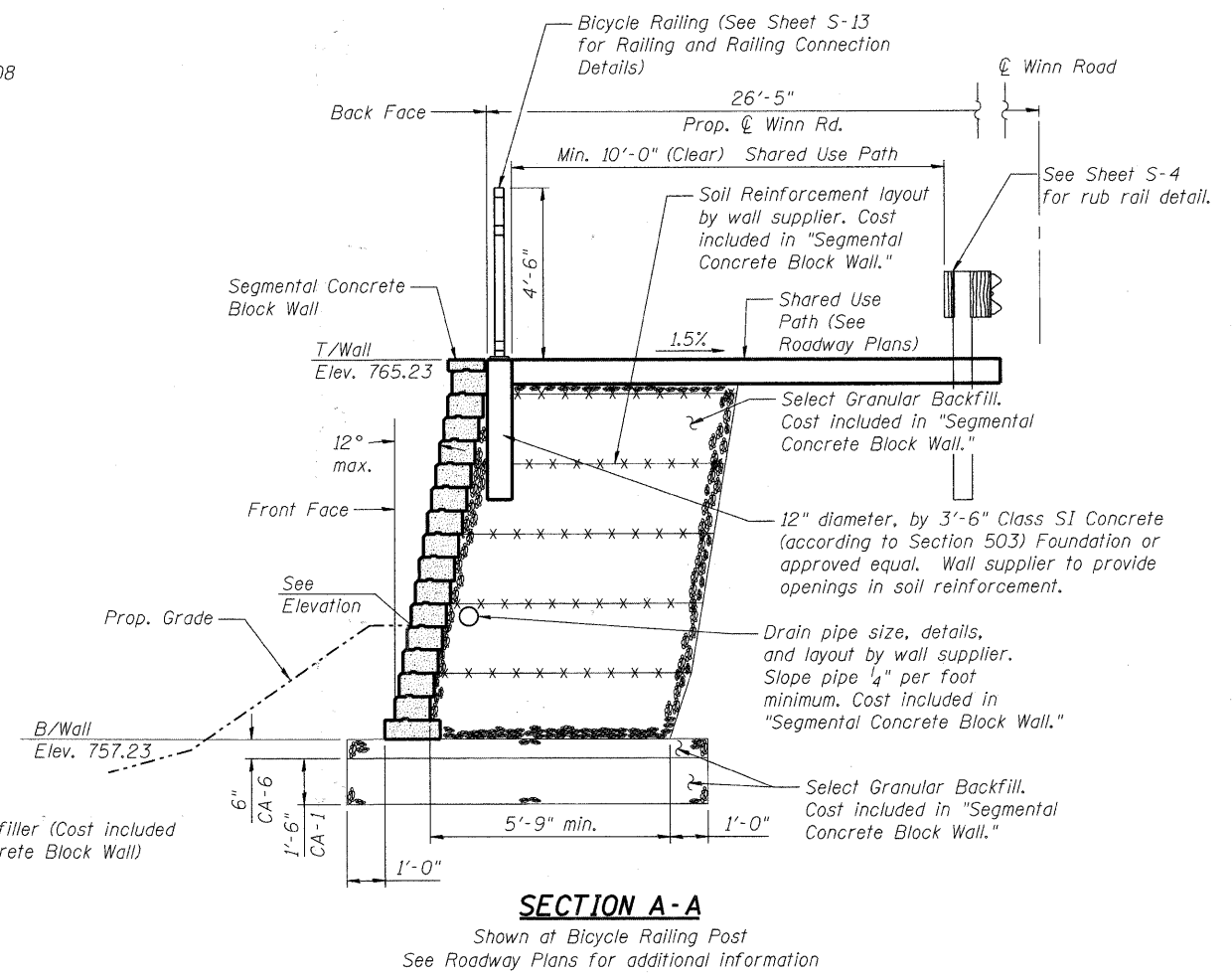
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WALL ELEVATION
(Looking West)



PLAN



SECTION A-A

Shown at Bicycle Railing Post
See Roadway Plans for additional information

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Segmental Concrete Block Wall	Sq. Ft.	800
Structure Excavation	Cu. Yd.	200

SOUTHWEST RETAINING WALL DETAILS

WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

Excavation required for installation of Segmental Concrete Block Wall shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be paid for as Structure Excavation.

The color of the wall shall be approved by the Engineer.

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

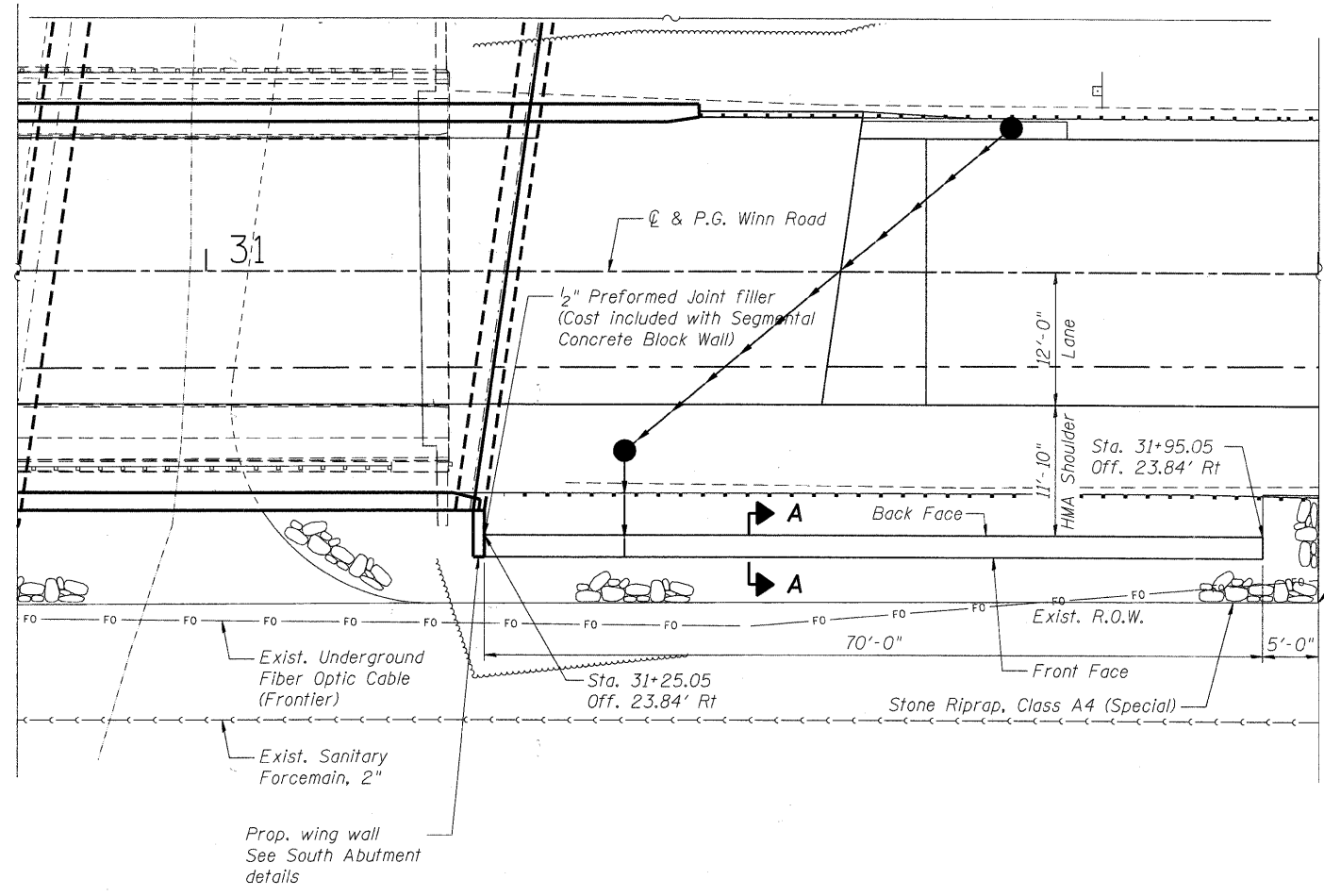
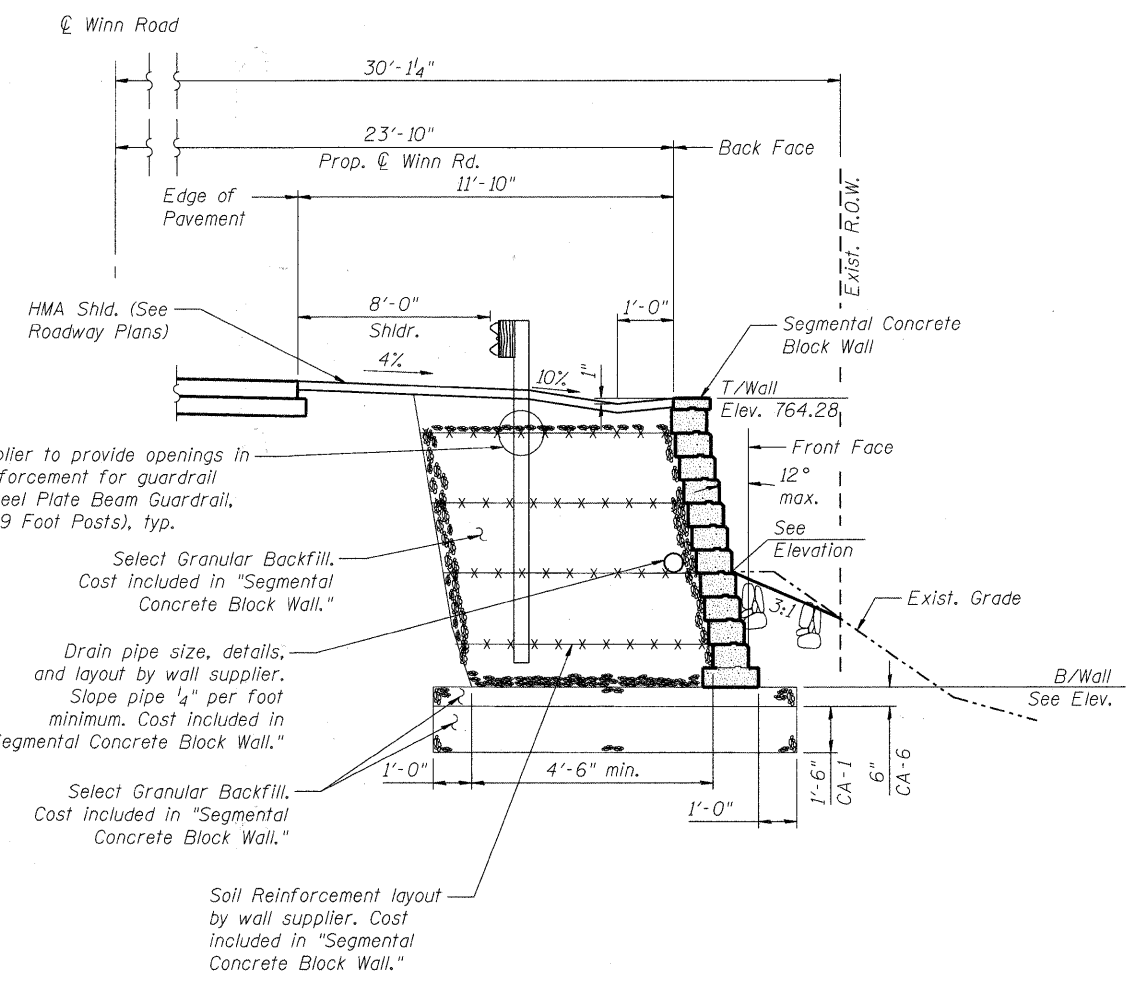
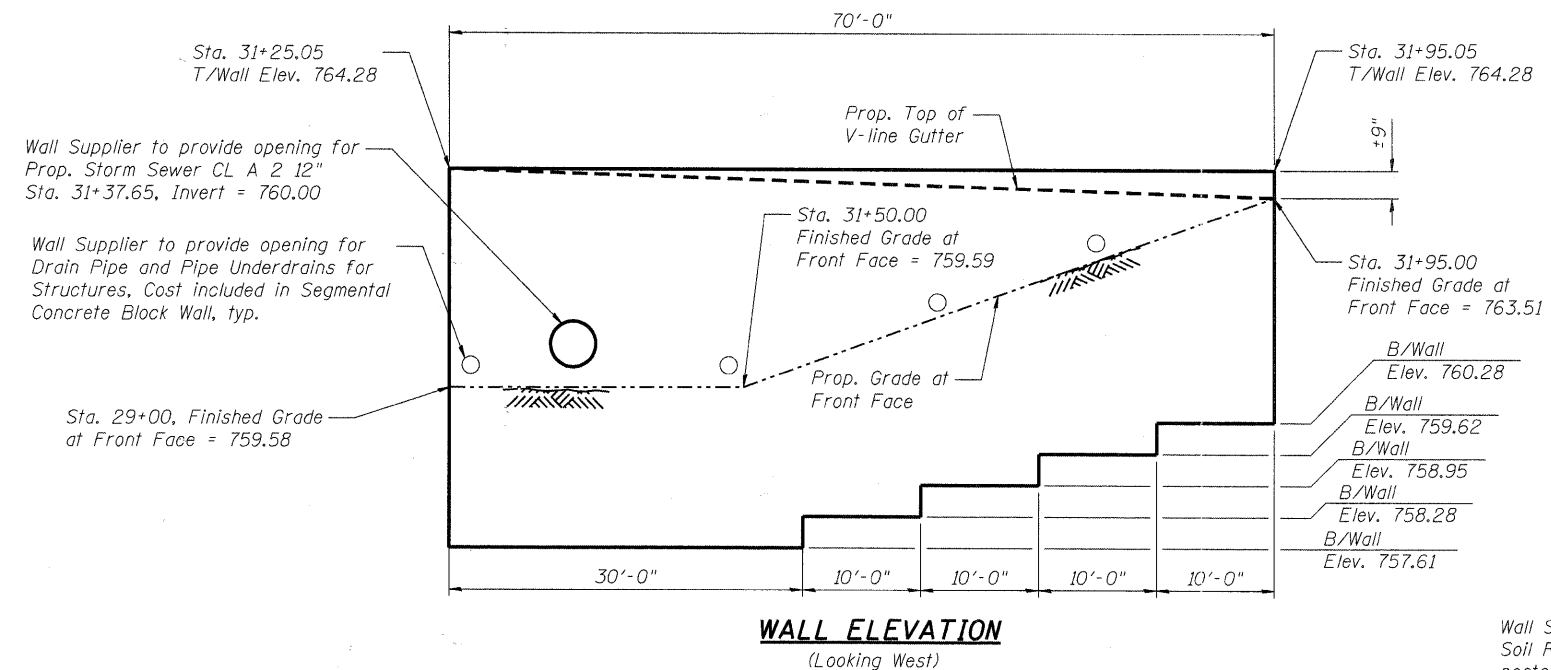


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SHEET NO. S-3 S-20 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63544					
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		BRM-8003 (921)

DATE: 6/23/11

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PEN TABLE: standard-trans.tbl



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Segmental Concrete Block Wall	Sq. Ft.	400
Structure Excavation	Cu. Yd.	65

Excavation required for installation of Segmental Concrete Block Wall shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be paid for as Structure Excavation.

The color of the wall shall be approved by the Engineer.

**NORTHEAST RETAINING WALL DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 6/23/11

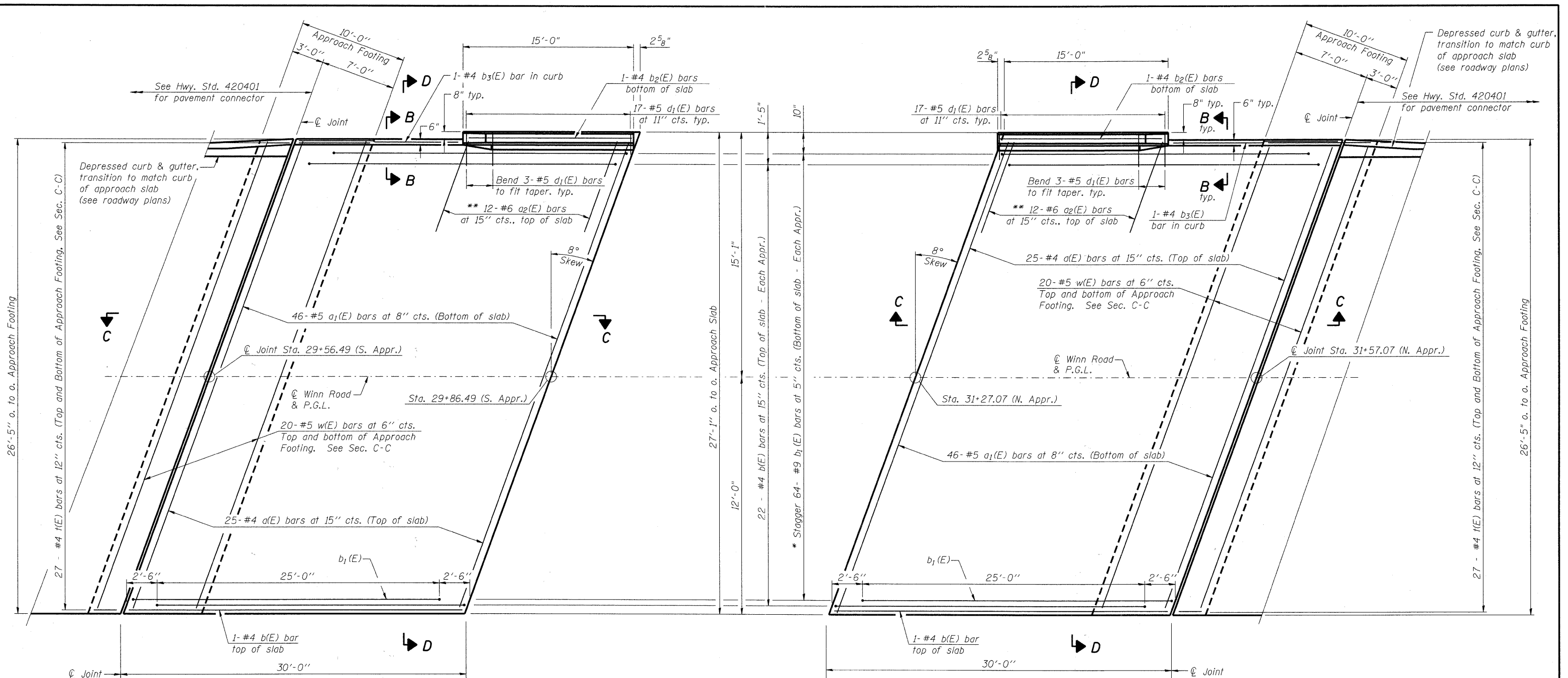
DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD



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SHEET NO.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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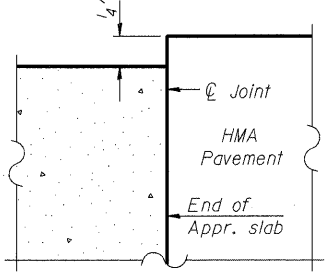
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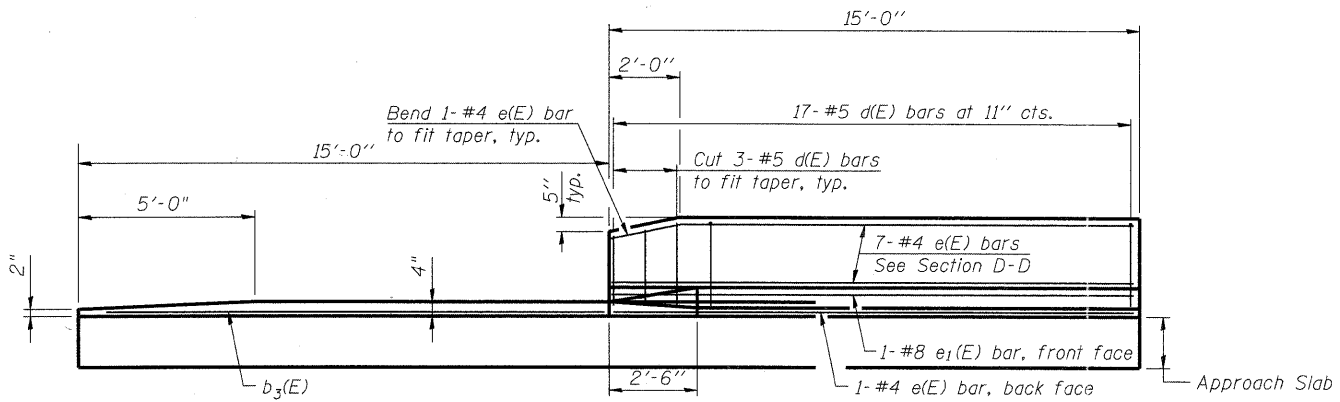
SOUTH APPROACH SLAB PLAN

NORTH APPROACH SLAB PLAN

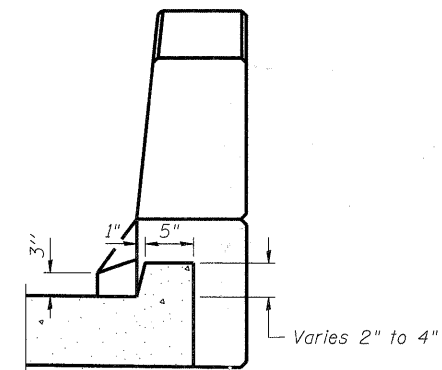
Notes:
See sheet S-6 for Sections C-C & D-D.
a(E) and a1(E) bar spacings measured along \varnothing Rdwy.



**FLEXIBLE PAVEMENT
DETAIL A**



VIEW E-E (Section cut on Sheet S-6)



VIEW B-B

* Tilt #9 b1(E) bars as required to maintain clearance.
** Space between a(E) bars, typ. each parapet.

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

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SHEET NO. S-5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	McHENRY	41	17
S-20 SHEETS					
CONTRACT NO. 63544					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					

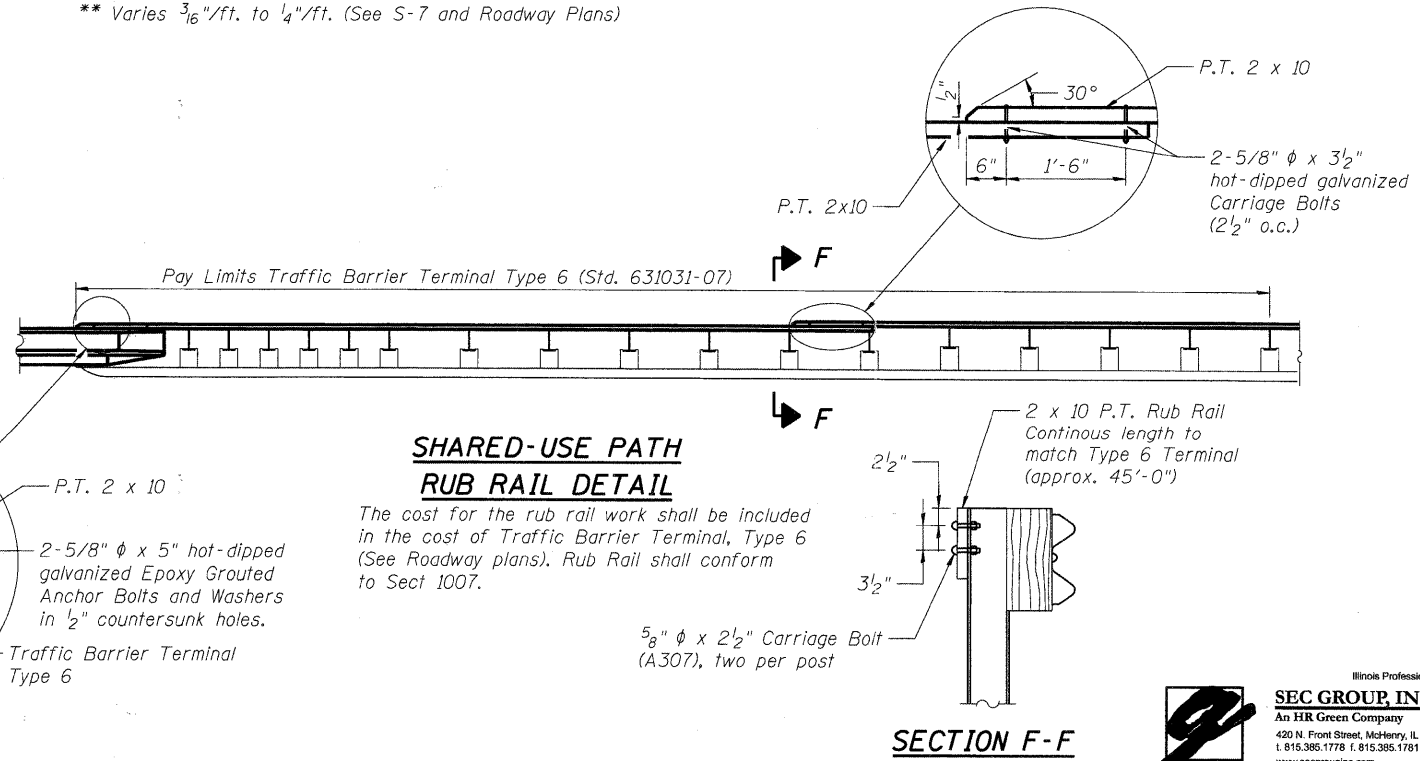
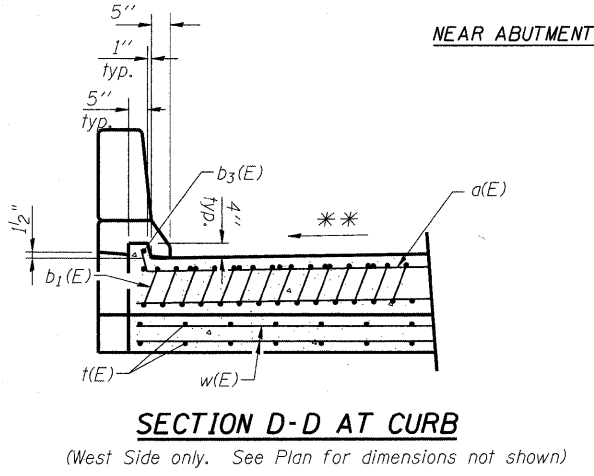
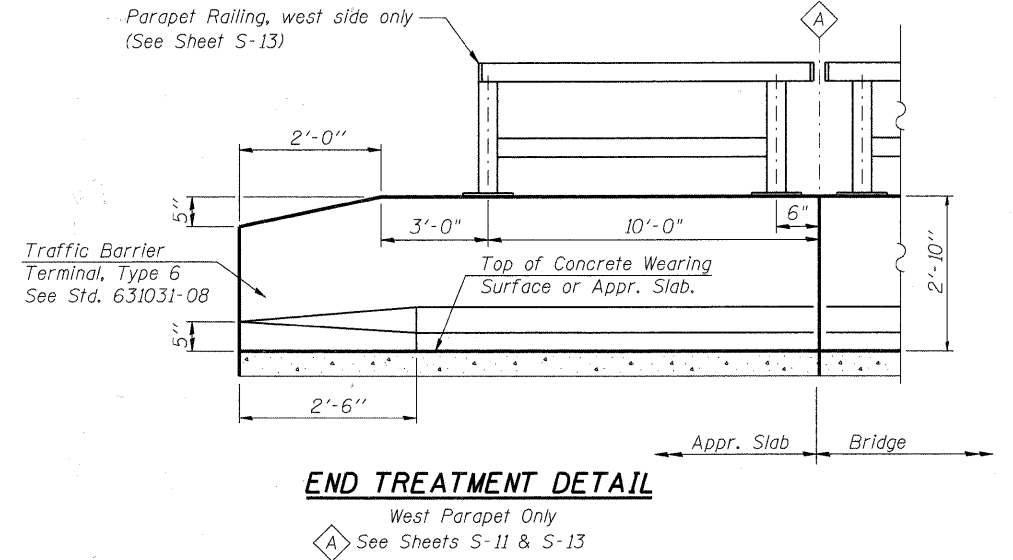
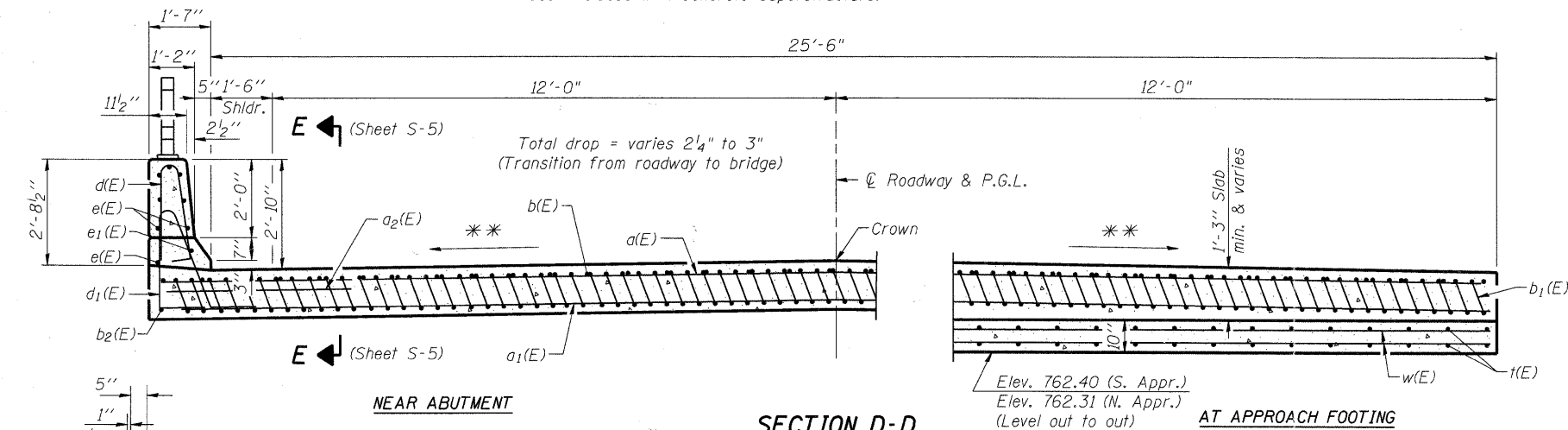
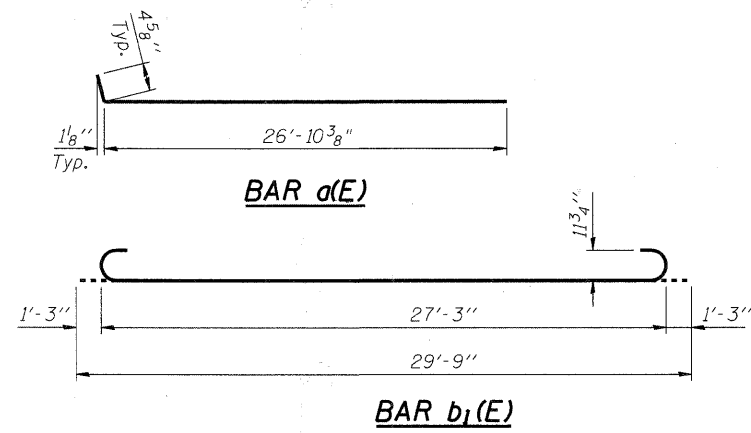
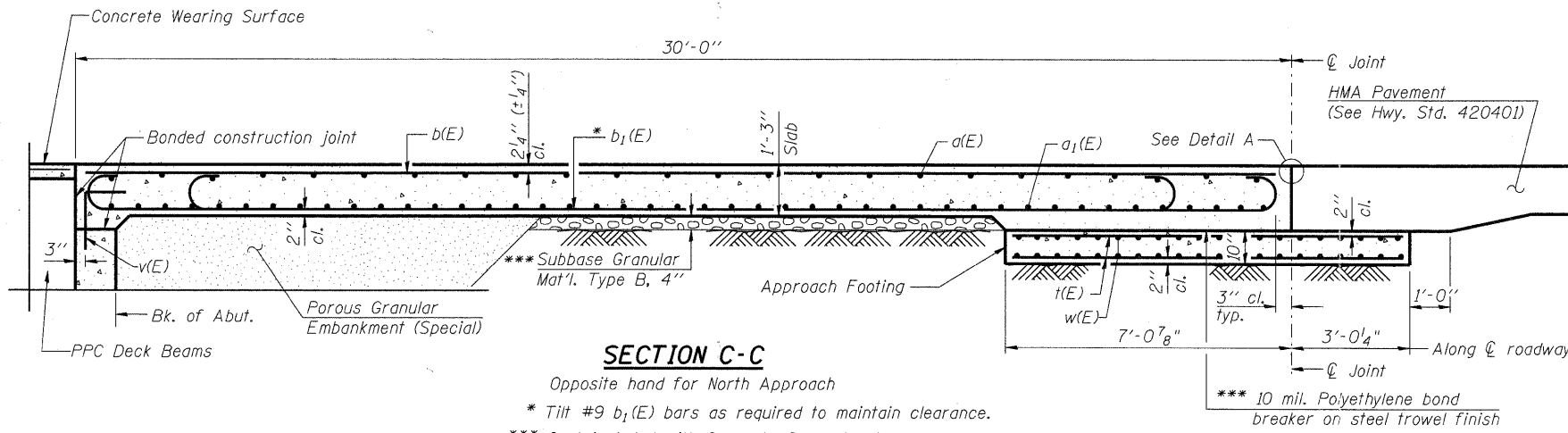
BRIDGE APPROACH SLAB DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHEMRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

DATE: 6/23/11

Notes:
 See sheet S-5 for Detail A and Plan.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S-14 & 15.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see Sheet S-2.
 For additional parapet details, see Sheet S-11 & 12.

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	50	#4	27'-4"	▬	
a ₁ (E)	92	#5	27'-0"	▬	
a ₂ (E)	24	#6	6'-6"	▬	
b(E)	46	#4	29'-8"	▬	
b ₁ (E)	128	#9	29'-9"	▬	
b ₂ (E)	2	#4	14'-8"	▬	
b ₃ (E)	2	#4	14'-9"	▬	
d(E)	34	#5	5'-7"	▬	
d ₁ (E)	34	#5	5'-11"	▬	
e(E)	16	#4	14'-8"	▬	
e ₁ (E)	2	#8	14'-8"	▬	
t(E)	108	#4	9'-9"	▬	
w(E)	80	#5	26'-4"	▬	
Concrete Superstructure				Cu. Yd.	86
Concrete Structures				Cu. Yd.	15.0
Bridge Deck Grooving				Sq. Yd.	157
Reinforcement Bars, Epoxy Coated				Pound	21,140



**BRIDGE APPROACH SLAB DETAILS
 WINN ROAD
 OVER NIPPERSINK CREEK
 F.A.U. ROUTE 0157
 SECTION NO. 07-00012-00-BR
 MCHENRY COUNTY
 STATION 30+56.78
 STRUCTURE NO. 056-6123**

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

SHEET NO. S-6 S-20 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	18
			CONTRACT NO. 63544		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					

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FILE NAME: 062012_062012.dgn
 PLOT DATE: 6/23/11
 PEN TABLE: standard-truss.tbl

WEST GUTTER LINE

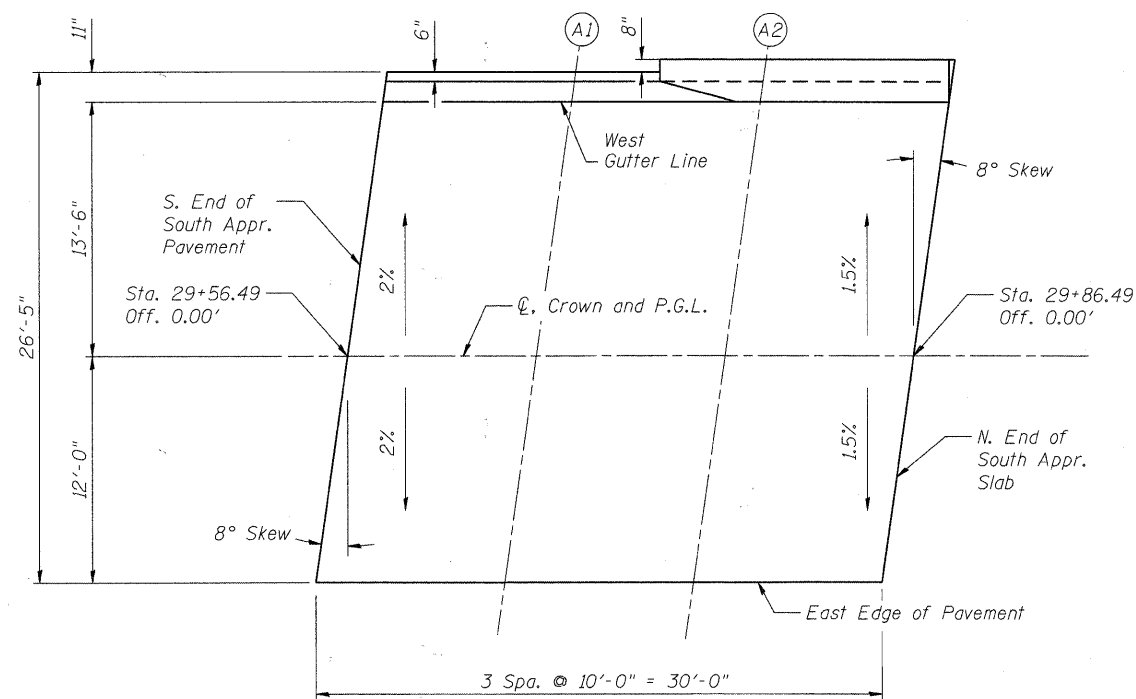
Location	Station	Offset from ϕ & P.G.L.	Theoretical Grade Elevations
South End of South Approach	29+58.39	-13.50	764.81
A1	29+68.39	-13.50	764.87
A2	29+78.39	-13.50	764.94
North End of South Approach	29+88.39	-13.50	765.01
South End of North Approach	31+28.97	-13.50	764.94
A3	31+38.97	-13.50	764.86
A4	31+48.97	-13.50	764.78
North End of North Approach	31+58.97	-13.50	764.69

ϕ . CROWN AND PROFILE GRADE

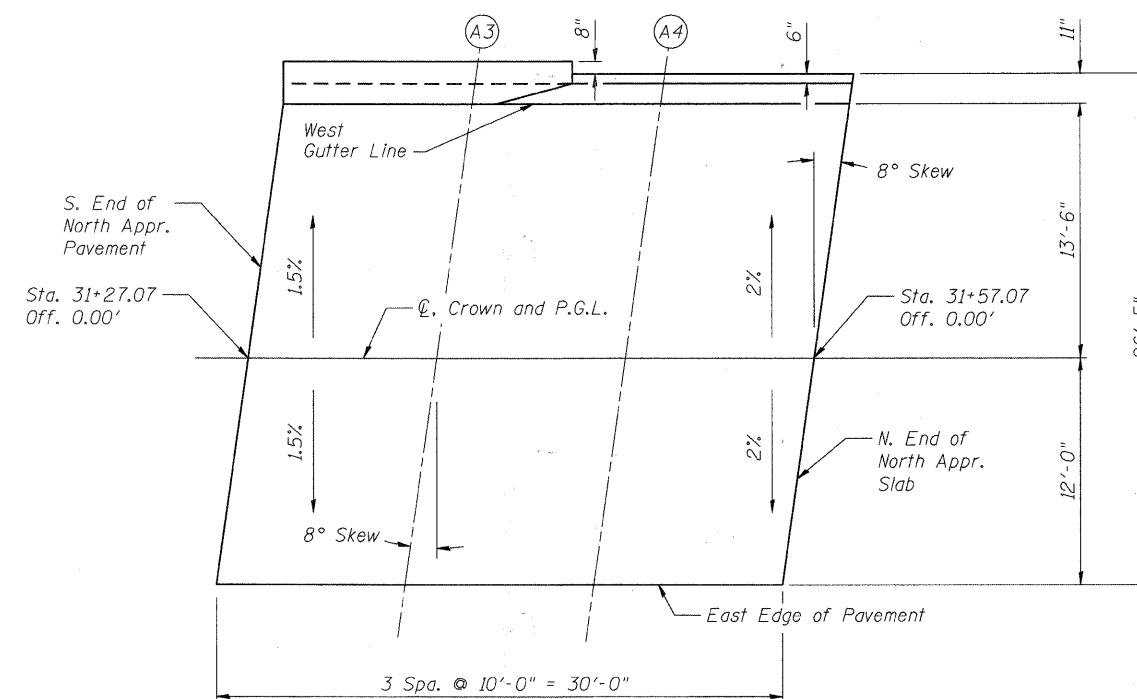
Location	Station	Offset from ϕ & P.G.L.	Theoretical Grade Elevations
South End of South Approach	29+56.49	0	765.00
A1	29+66.49	0	765.08
A2	29+76.49	0	765.17
North End of South Approach	29+86.49	0	765.26
South End of North Approach	31+27.07	0	765.23
A3	31+37.07	0	765.13
A4	31+47.07	0	765.02
North End of North Approach	31+57.07	0	764.91

EAST EDGE OF PAVEMENT

Location	Station	Offset from ϕ & P.G.L.	Theoretical Grade Elevations
South End of South Approach	29+54.80	12.00	764.81
A1	29+64.80	12.00	764.87
A2	29+74.80	12.00	764.94
North End of South Approach	29+84.80	12.00	765.01
South End of North Approach	31+25.38	12.00	765.01
A3	31+35.38	12.00	764.93
A4	31+45.38	12.00	764.84
North End of North Approach	31+55.38	12.00	764.75



SOUTH APPROACH



NORTH APPROACH

PLAN



**APPROACH PAVEMENT ELEVATIONS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 6/23/11

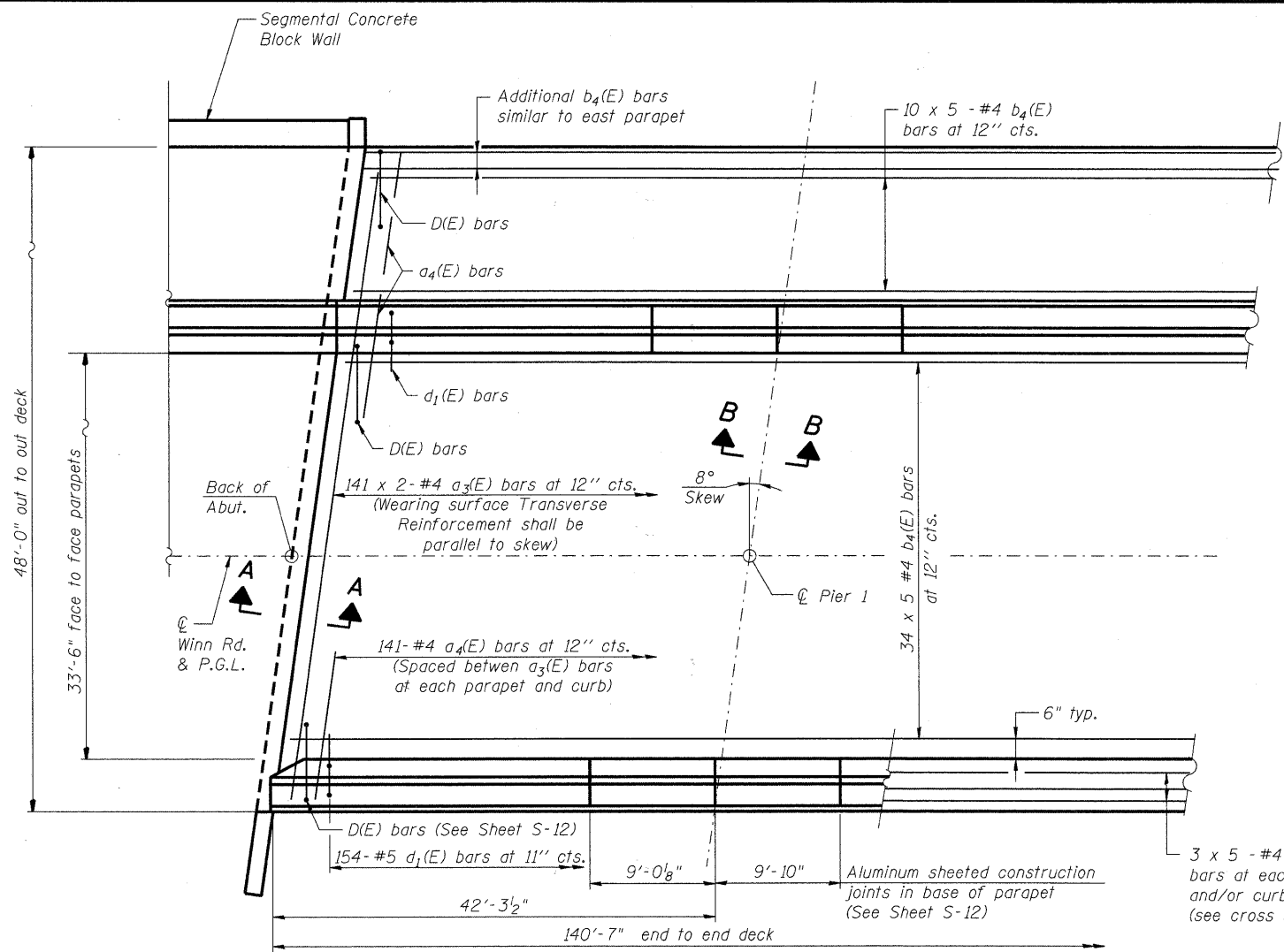
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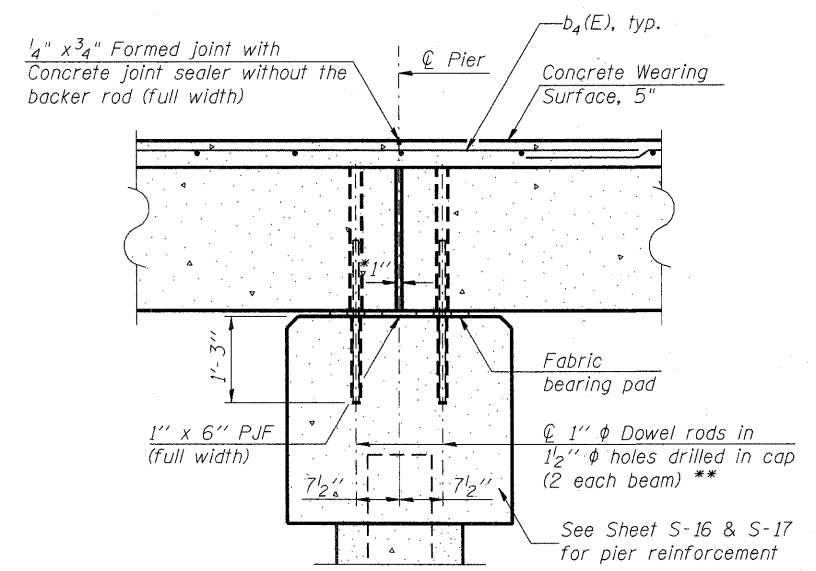
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SHEET NO. S-7 S-20 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	19
CONTRACT NO. 63544					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					

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PLOT NUMBER: 6/23/11
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PARTIAL PLAN

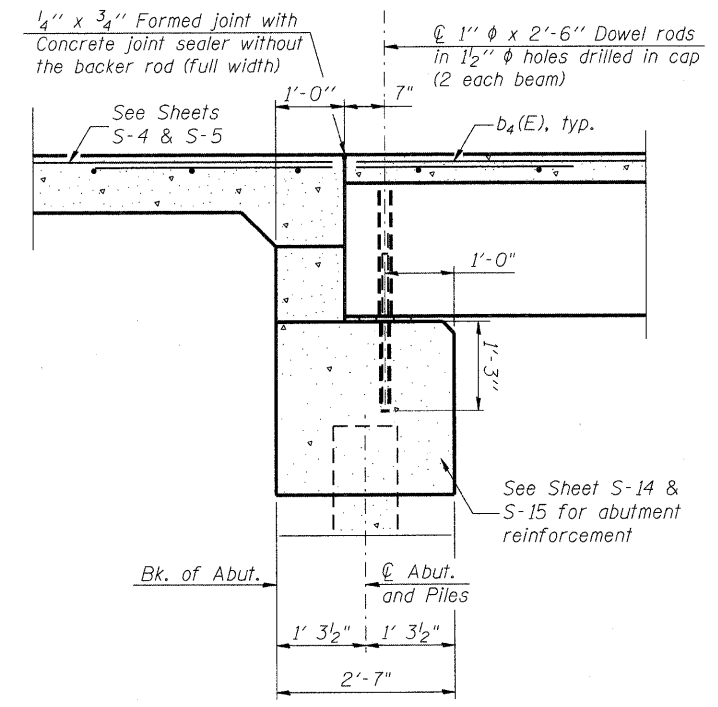


SECTION B-B THRU PIER CAP

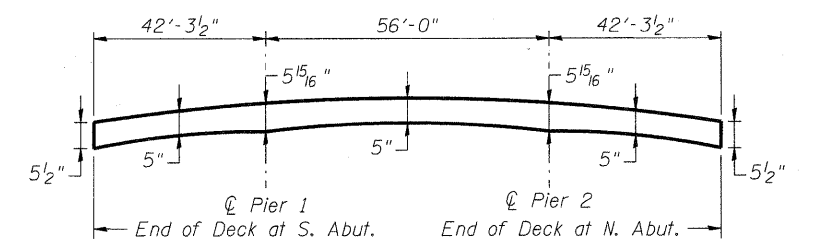
(With concrete wearing surface)
 (Dimensions are at Rt. L's)

* 1" Joint shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam length.

** 2'-6" long



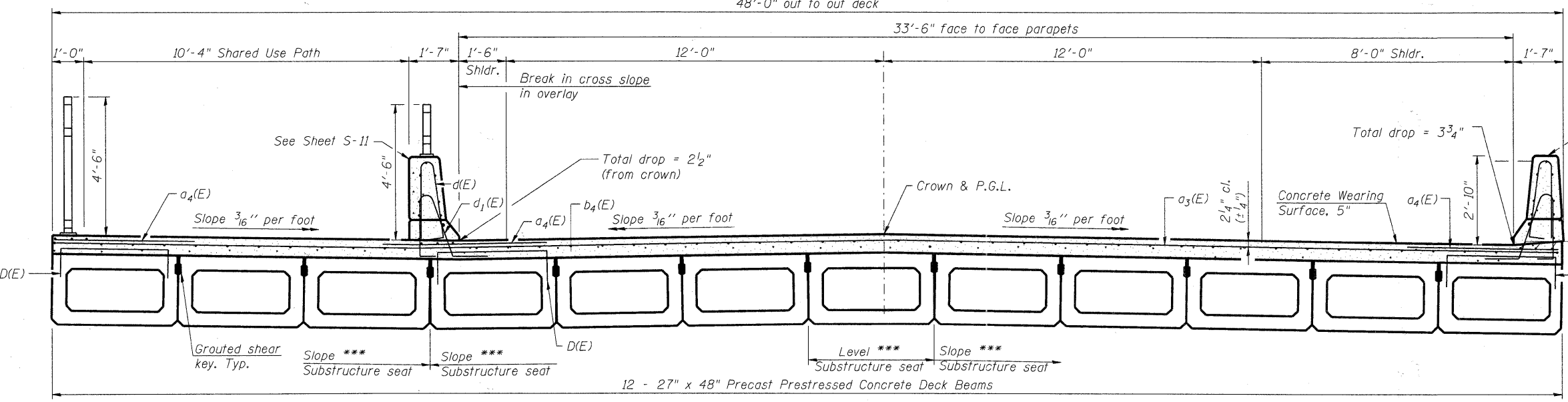
SECTION A-A
 (Dimensions are at Rt. L's)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)
 Thickness is based on calculated camber and deflection of PPC Deck Beams. Actual camber of individual units may vary up to ±1/2". Adjust thickness to match PGL and cross slope.

Notes:
 See sheet S-11 and S-12 for Superstructure Details and Bill of Material.
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
 Spacing of a3(E) and a4(E) bars shall be measured along the centerline of structure.



CROSS SECTION
 (Looking North)

*** See Pier and Abutment Details

MINIMUM BAR LAP

#4 bar = 2'-7"

DECK PLAN AND CROSS SECTION
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

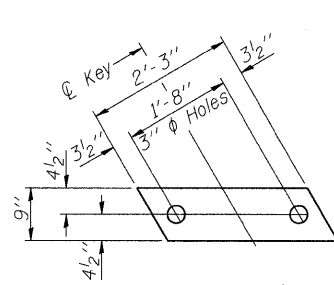
DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

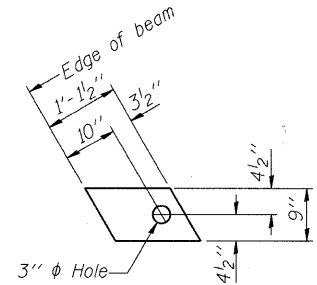


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SHEET NO. S-8	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	20
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CONTRACT NO. 63544					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					



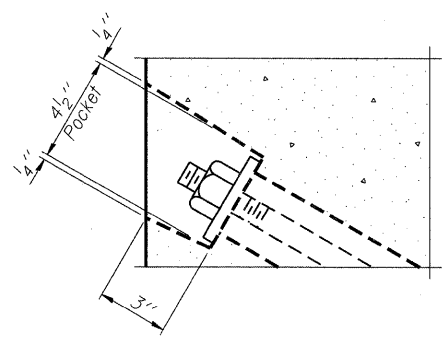
FABRIC BEARING PAD
(Interior)



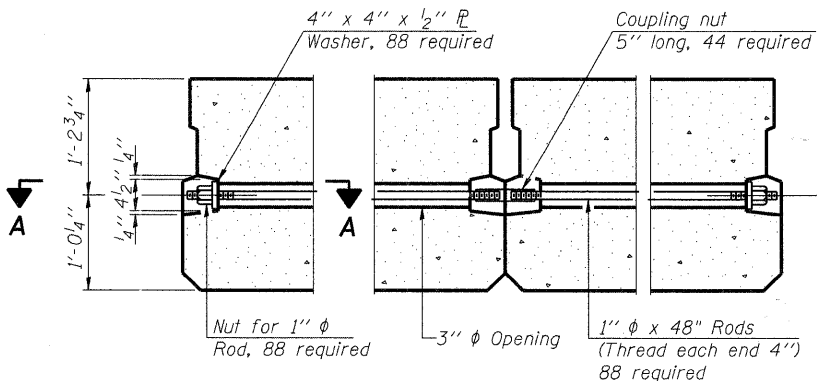
FABRIC BEARING PAD
(Exterior)

FIXED

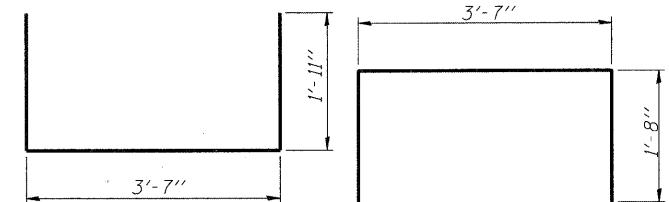
Notes:
All bearing pads shall be 1" thick.



SECTION A-A

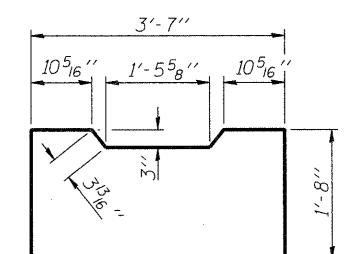


TYPICAL TRANSVERSE TIE ASSEMBLY

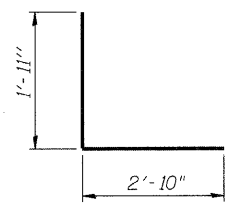


BAR S1(E)

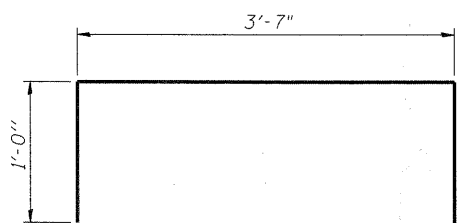
BAR S2(E)



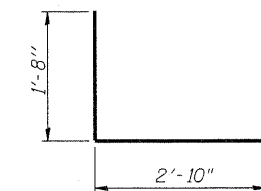
BAR S2(E)



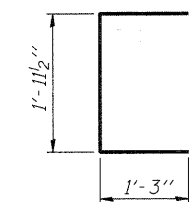
BAR S3(E)



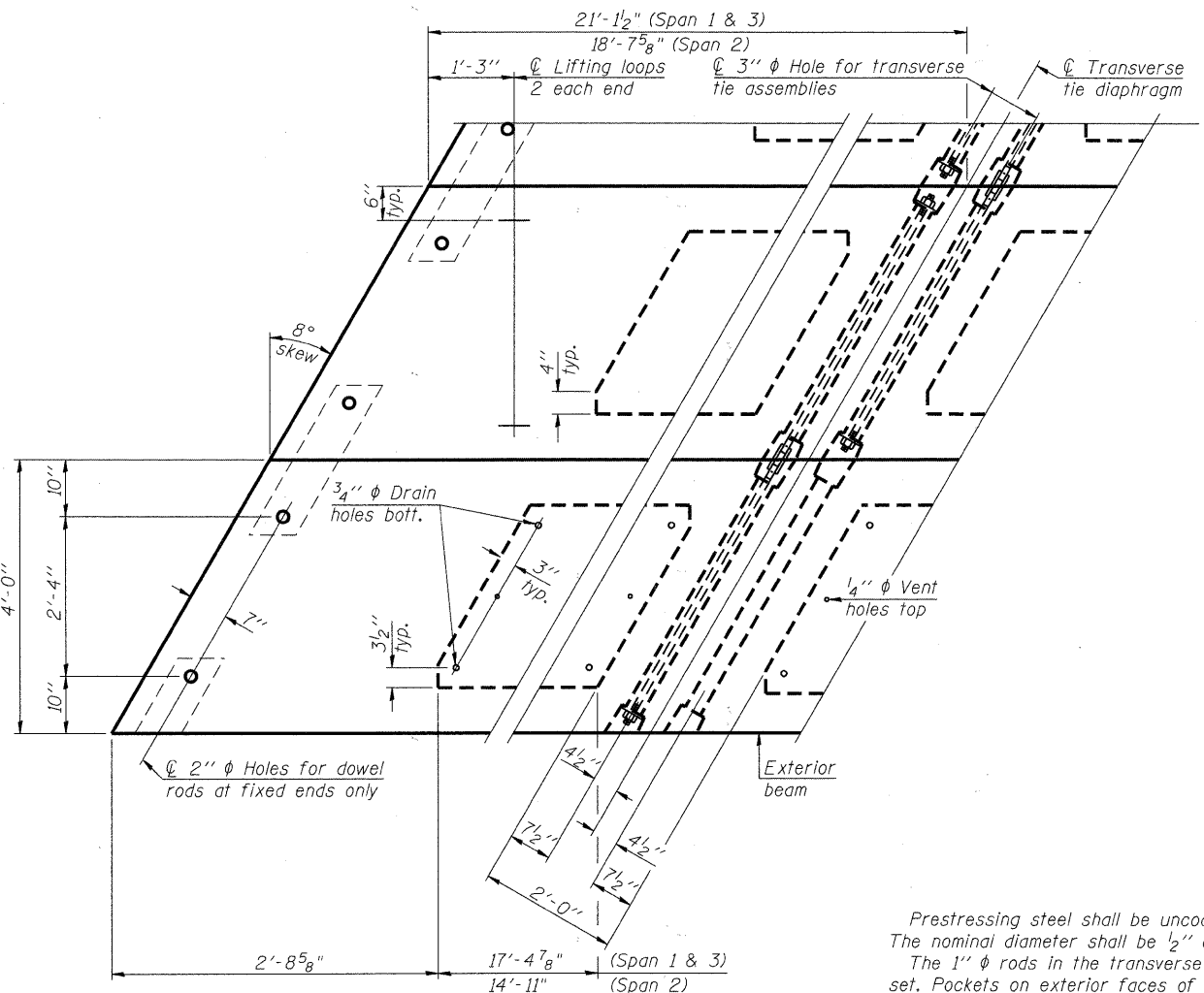
BAR D(E)



BAR S4(E)

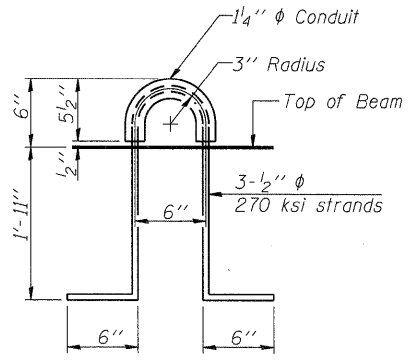


BAR U(E)



PLAN VIEW

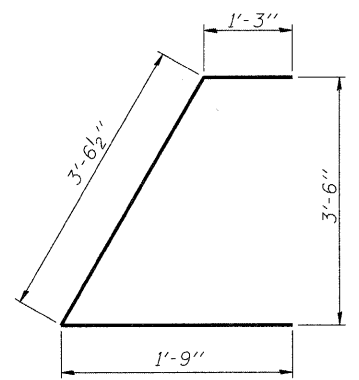
Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	6,740
---	---------	-------



BAR U1(E)

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" 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 5/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter 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'ci, shall be 5000 psi.

SUPERSTRUCTURE DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

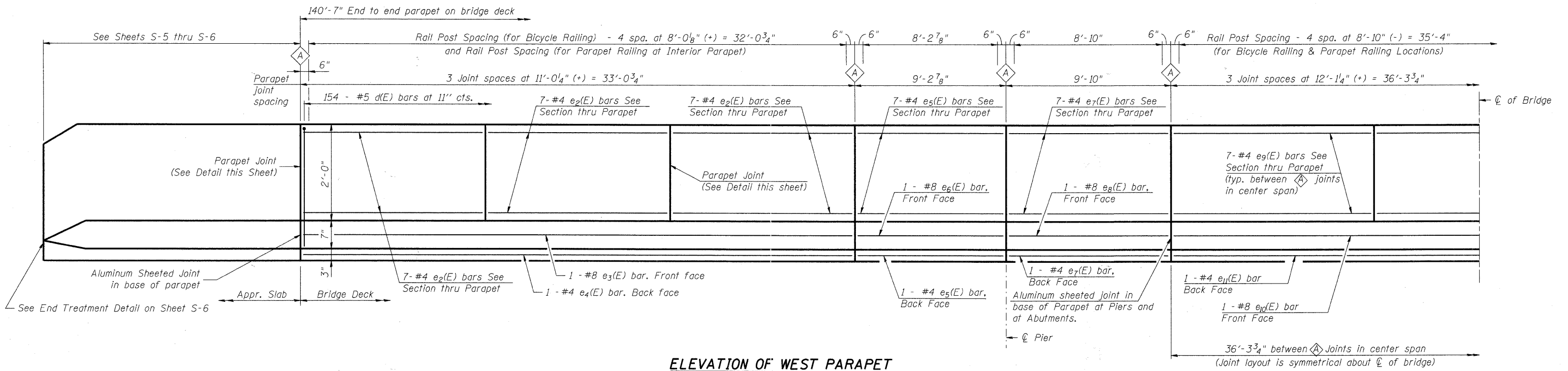
DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD



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SHEET NO. S-10	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	McHENRY	41	22
S-20 SHEETS	CONTRACT NO. 63544				
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	BRM-8003 (921)	



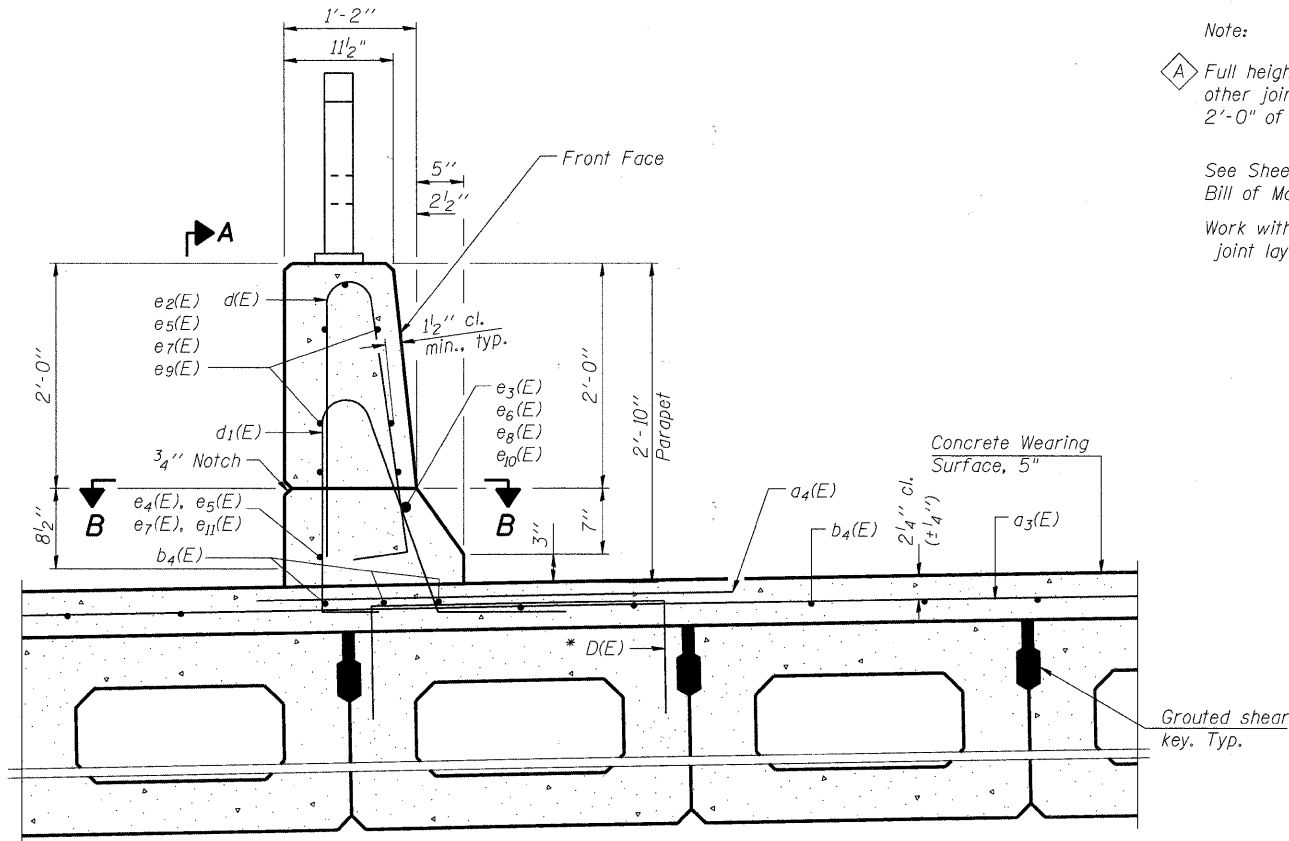
ELEVATION OF WEST PARAPET

Note:

A Full height parapet joint (see detail below). At other joint locations use the filler shown in the top 2'-0" of the parapet joints (same detail).

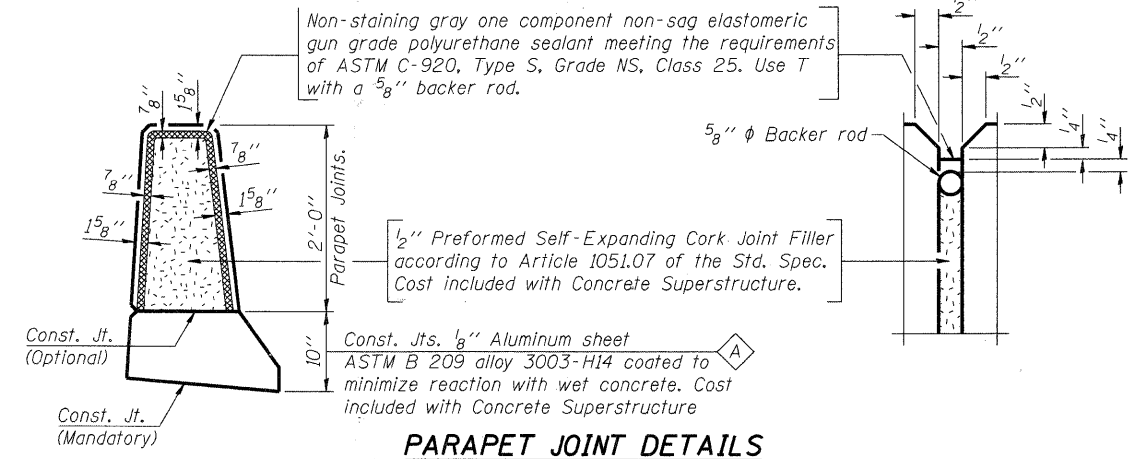
See Sheet S-12 for details of reinforcement and Bill of Material.

Work with Sheet S-5, S-6 and S-8 for parapet joint layout.



SECTION THRU WEST PARAPET (LOOKING NORTH)

* Place #4 D(E) bars at 9" cts. in beam as shown, and other locations as indicated in cross section on Sheet S-8. D(E) bar included in cost of beam.



PARAPET JOINT DETAILS

**WEST PARAPET ELEVATION
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

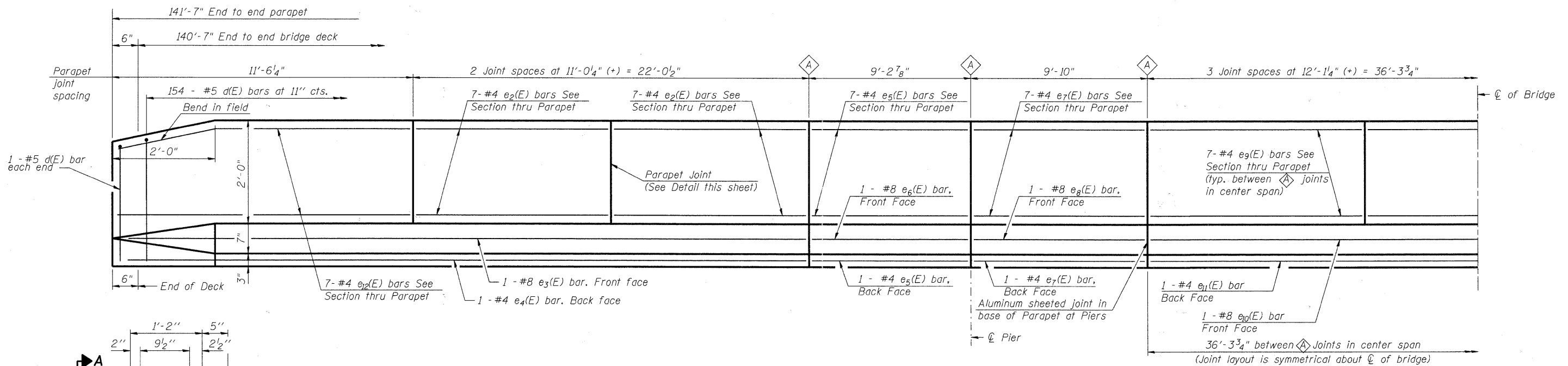
DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

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SHEET NO. S-11	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	23
S-20 SHEETS			CONTRACT NO. 63544		
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT BRM-8003 (921)		

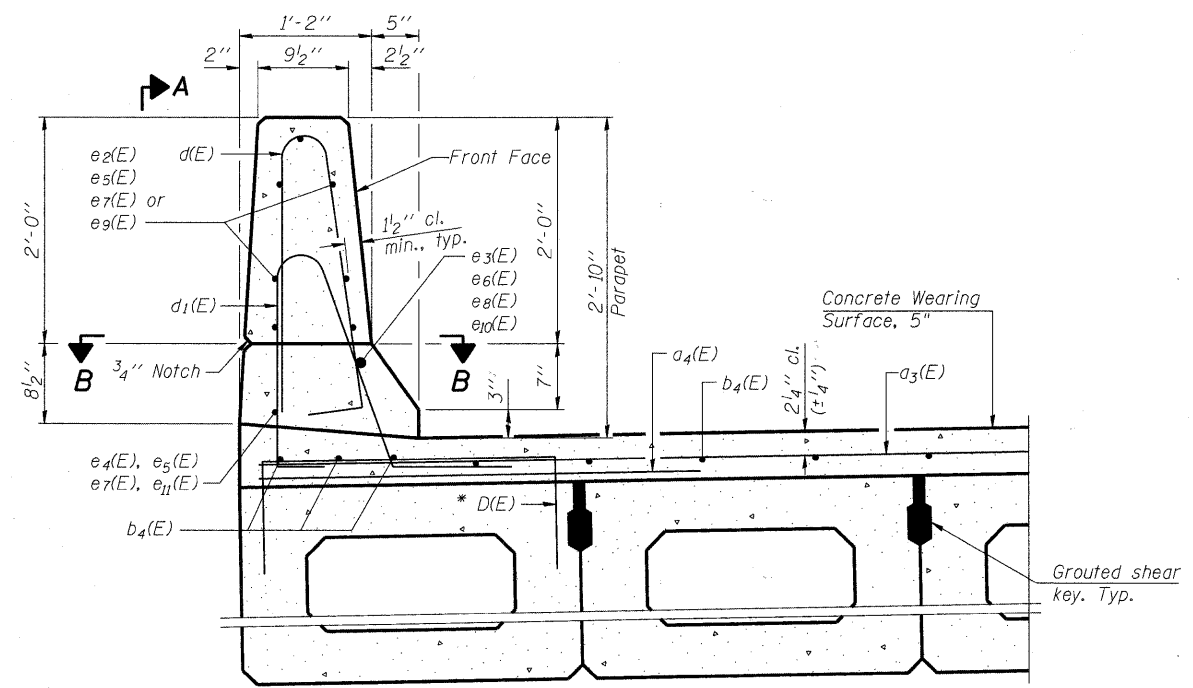
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PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



ELEVATION OF EAST PARAPET

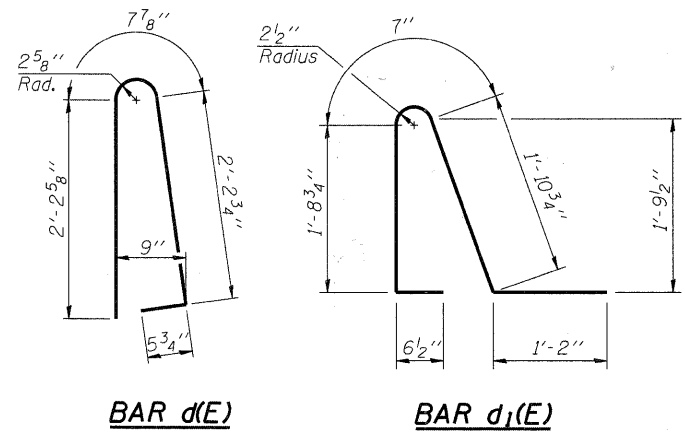
Note:
 A Full height parapet joint (see detail below). At other joint locations use the filler shown in the top 2'-0" of the parapet joints (same detail).

Work with Sheet S-5, S-6 and S-8 for parapet joint layout.



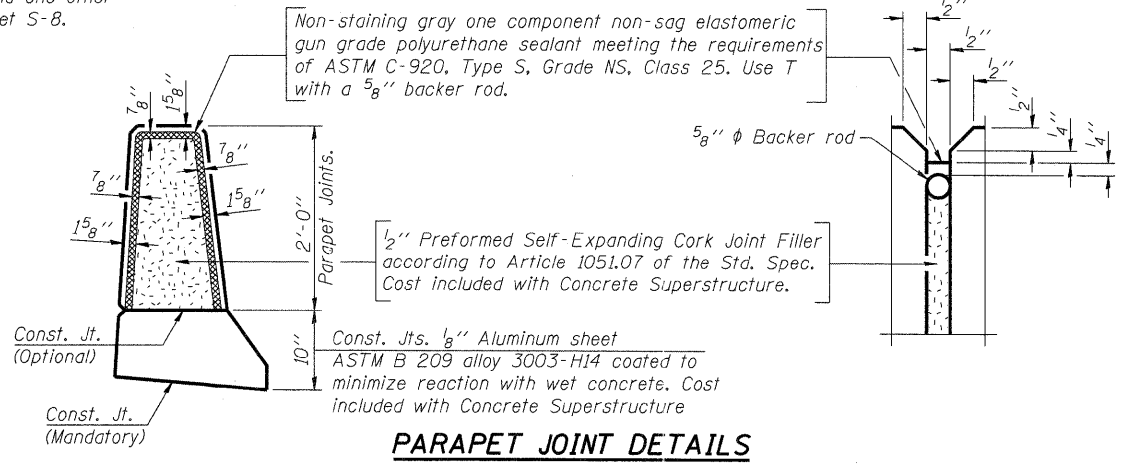
SECTION THRU EAST PARAPET LOOKING SOUTH

* Place #4 D(E) bars at 9" cts. in fascia beams, and one other other location as indicated in cross section on Sheet S-8. D(E) bar included in cost of beam.



BAR d(E)

BAR d1(E)



PARAPET JOINT DETAILS

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a3(E)	282	#4	25'-5"	—	
a4(E)	423	#4	6'-0"	—	
b4(E)	265	#4	30'-2"	—	
d(E)	310	#5	5'-7"	⏏	
d1(E)	308	#5	5'-11"	⏏	
e2(E)	70	#4	10'-8"	—	
e3(E)	4	#8	32'-8"	—	
e4(E)	4	#4	32'-8"	—	
e5(E)	32	#4	8'-10"	—	
e6(E)	4	#8	8'-10"	—	
e7(E)	32	#4	9'-6"	—	
e8(E)	4	#8	9'-6"	—	
e9(E)	42	#4	11'-9"	—	
e10(E)	2	#8	35'-11"	—	
e11(E)	2	#4	35'-11"	—	
e12(E)	14	#4	11'-2"	—	
Reinforcement Bars, Epoxy Coated				Pound	17,730
Concrete Superstructure				Cu. Yd.	36
Bridge Deck Grooving				Sq. Yd.	621
Concrete Wearing Surface, 5"				Sq. Yd.	750

Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

**EAST PARAPET ELEVATION
 WINN ROAD
 OVER NIPPERSINK CREEK
 F.A.U. ROUTE 0157
 SECTION NO. 07-00012-00-BR
 MCHENRY COUNTY
 STATION 30+56.78
 STRUCTURE NO. 056-6123**

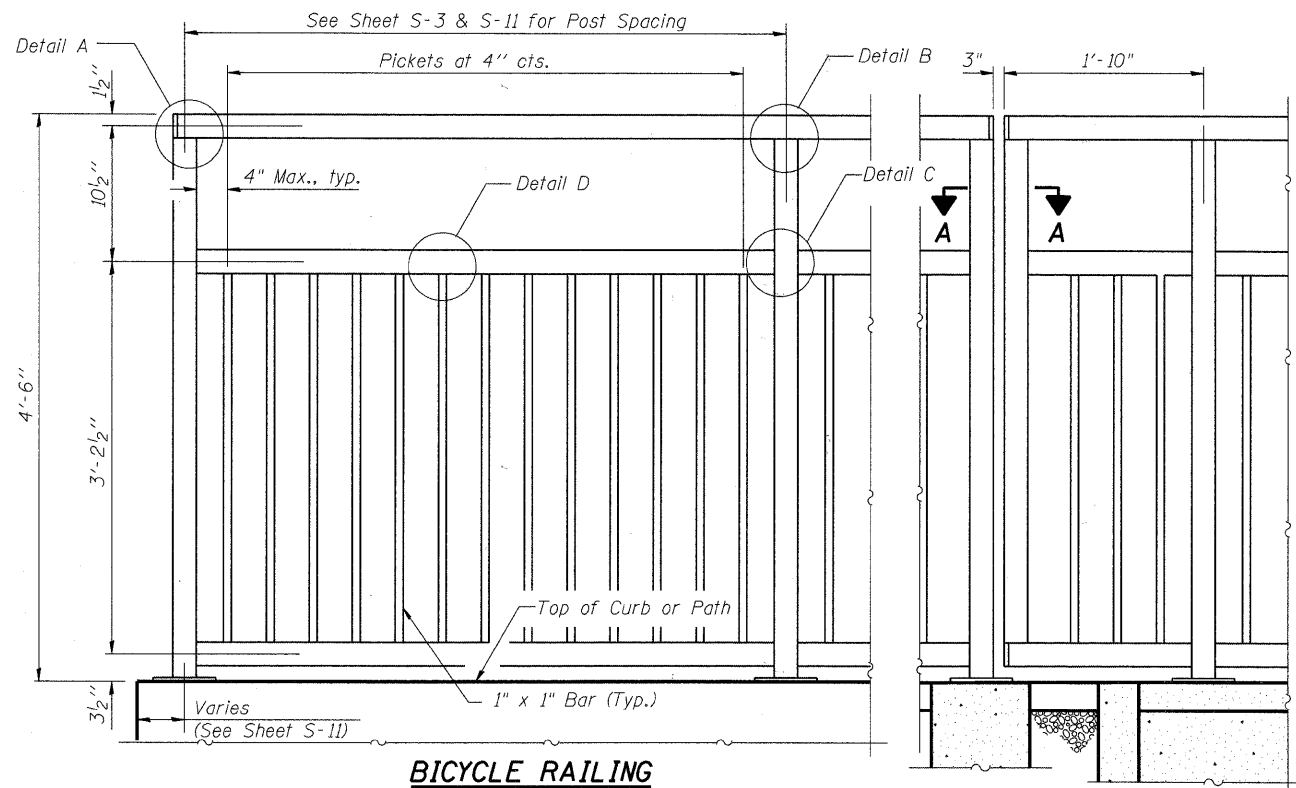
DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

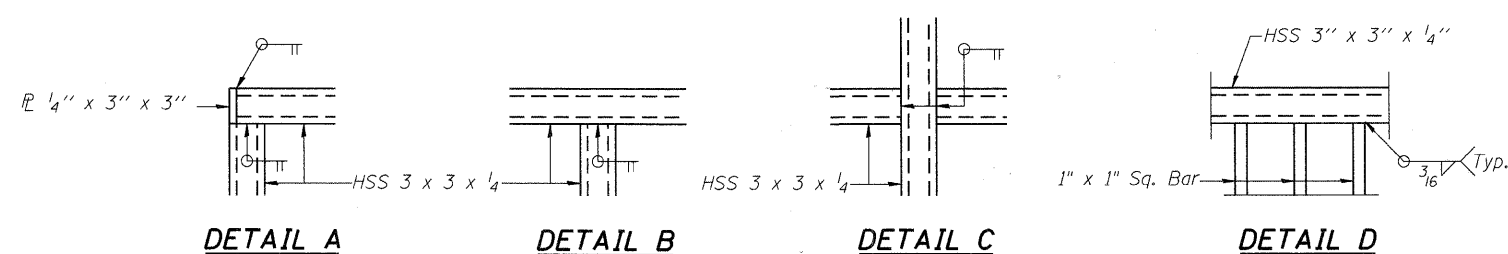
PDS-M-F-D 11-1-09

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SHEET NO. S-12	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	McHENRY	41	24
S-20 SHEETS				CONTRACT NO. 63544	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	BRM-8003 (921)	



BICYCLE RAILING

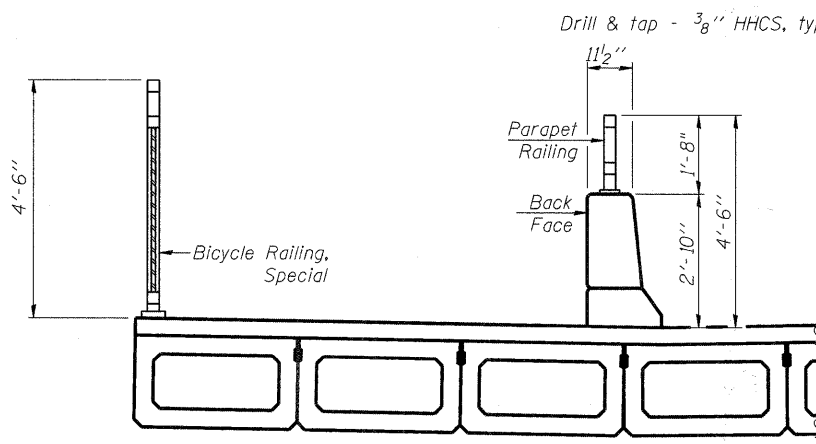


DETAIL A

DETAIL B

DETAIL C

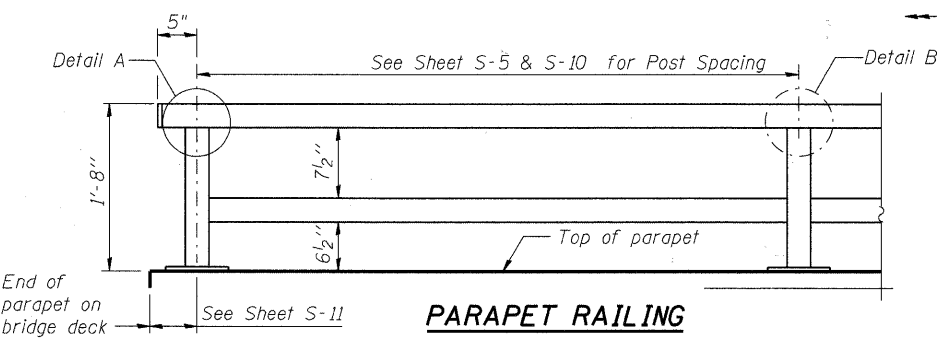
DETAIL D



SECTION THRU DECK

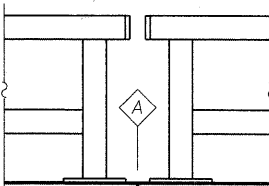
NOTES

All post, railing, pickets, splices, and anchor devices shall be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.



PARAPET RAILING ELEVATION
(Inside Face of Two Element Rail)

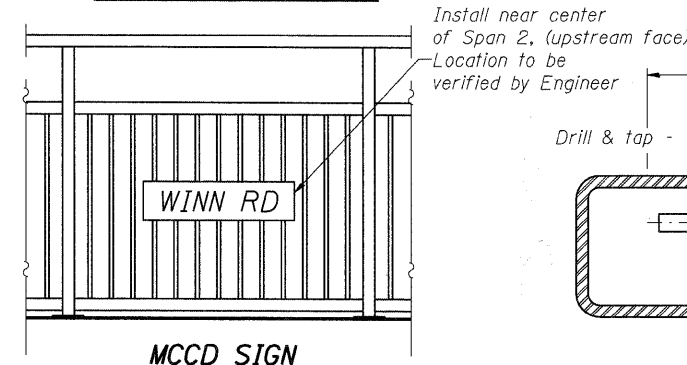
BICYCLE RAILING Southwest Corner



PARAPET RAILING ELEVATION AT EXPANSION JOINT

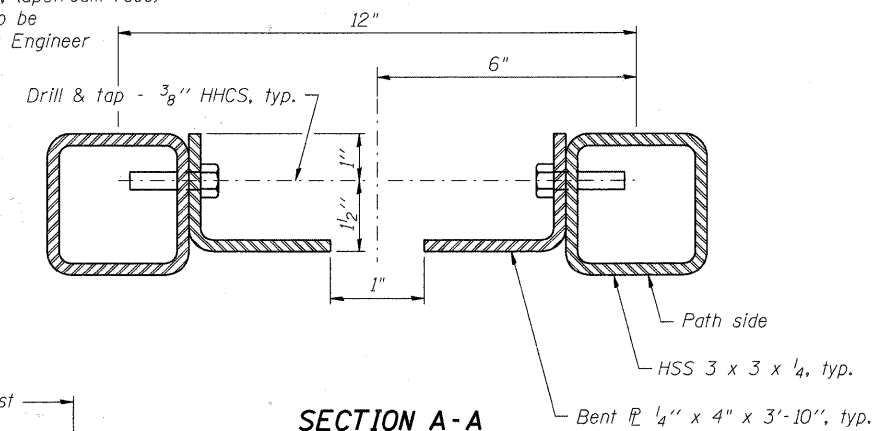
(Two Element Rail Shown - Three Element Rail Similar)

See Superstructure Details for location



MCCD SIGN

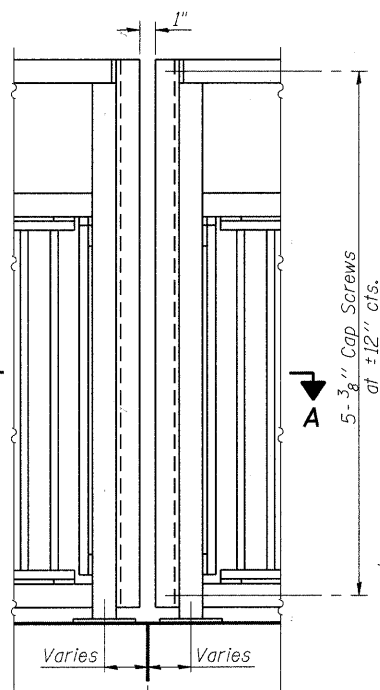
(See Std. 720016-02, Style A)
Paid for as Sign Panel, Type 1



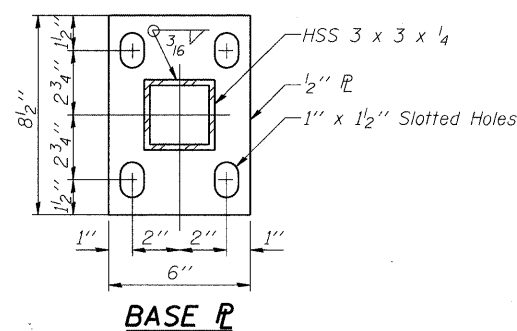
SECTION A-A

BILL OF MATERIAL

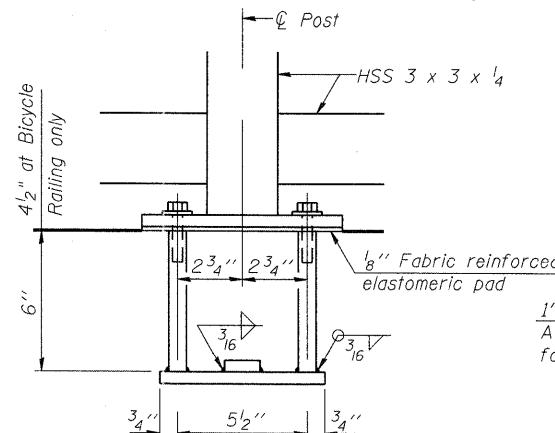
Item	Unit	Quantity
Bicycle Railing	Foot	241
Parapet Railing	Foot	166



BICYCLE RAILING

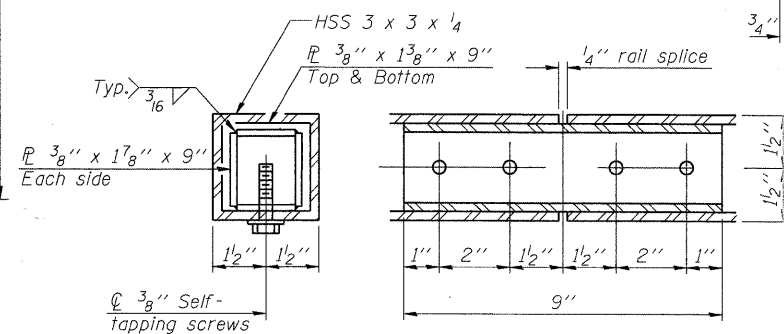
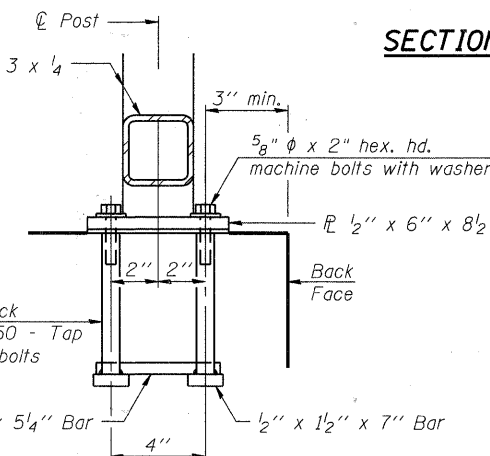


BASE P



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8 inch diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications, but no greater than 6 inches.



RAIL SPLICE

RAILING DETAILS

**WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

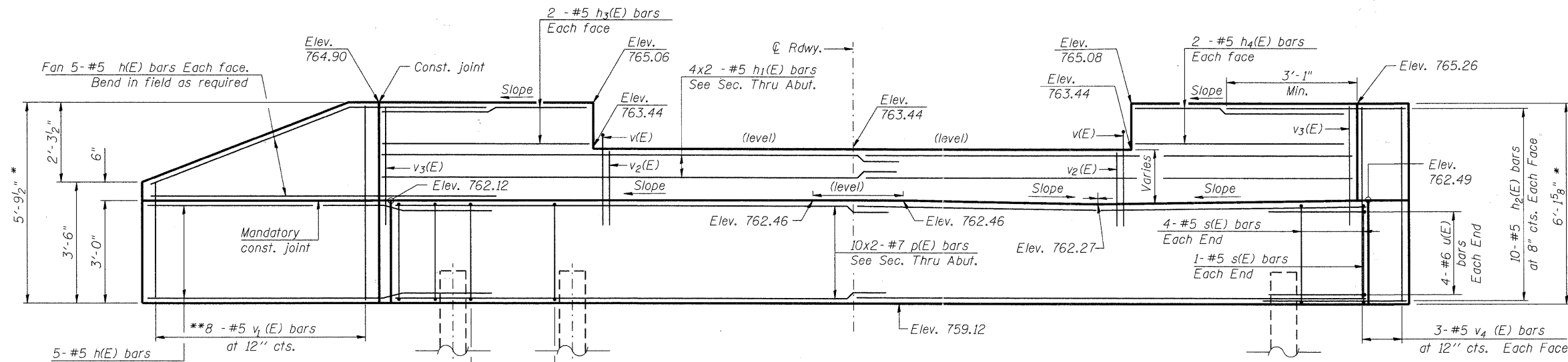
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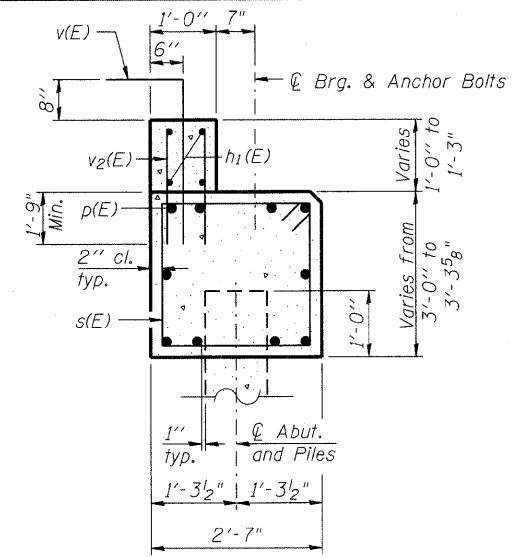
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SHEET NO. S-13	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	McHENRY	41	25
S-20 SHEETS	CONTRACT NO. 63544				
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	BRM-8003 (921)	

* Cast top of wingwall flush with top of concrete wearing surface at exterior beam face after beams have been erected and concrete wearing surface has been installed.



ELEVATION
(Looking South)



SECTION A-A
(Dimensions are at Rt. L's)

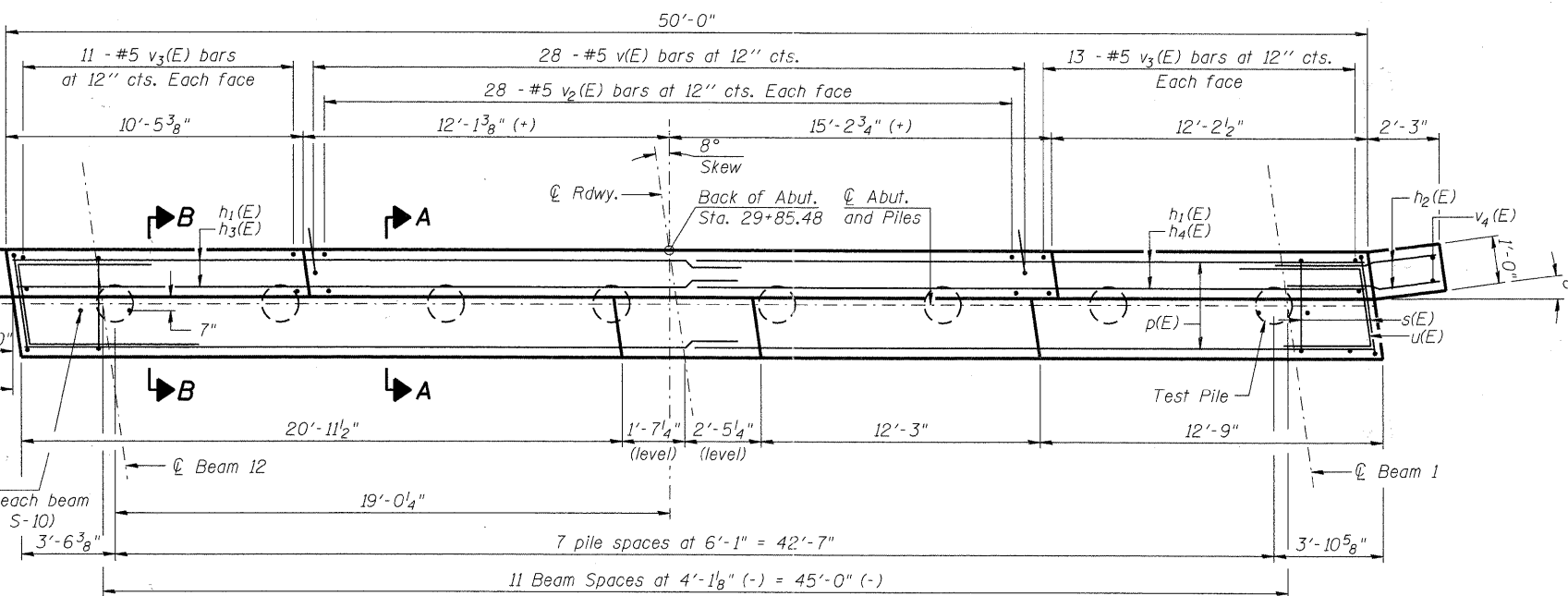
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	10'-4"	—
h1(E)	8	#5	26'-4"	—
h2(E)	20	#5	5'-2"	—
h3(E)	4	#5	10'-1"	—
h4(E)	4	#5	11'-10"	—
p(E)	20	#7	27'-2"	—
s(E)	57	#5	10'-9"	□
u(E)	8	#6	11'-0"	∟
v(E)	28	#5	4'-5"	∟
v1(E)	8	#5	8'-7"	—
v2(E)	56	#5	2'-10"	—
v3(E)	48	#5	4'-10"	—
v4(E)	6	#5	5'-9"	—
Structure Excavation		Cu. Yd.	99	
Concrete Structures		Cu. Yd.	21	
Reinforcement Bars, Epoxy Coated		Pound	3,160	
Furnishing Metal Shell Piles 14"x0.250"		Foot	329	
Driving Piles		Foot	329	
Test Pile, Metal Shell		Each	1	

Notes:
For details of piles see sheet S-18.
Cast backwall after beams and concrete wearing surface have been erected.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

**SOUTH ABUTMENT DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123**

DATE: 6/23/11



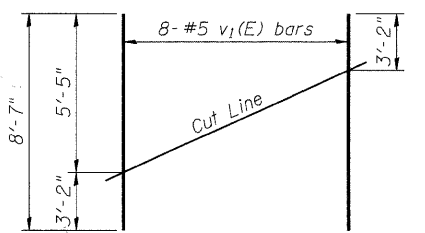
PLAN

MINIMUM BAR LAP

#5 bar = 2'-11"
#7 bar = 4'-8"

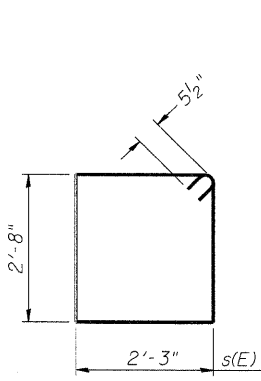
PILE DATA

Type and size: Metal Shell - 14 in. dia. x 0.25 in. walls
Nominal Required Bearing: 390K
Factored Resistance Available: 130K
Est. Length: 47'
No. Production Piles: 7
No. Test Piles: 1

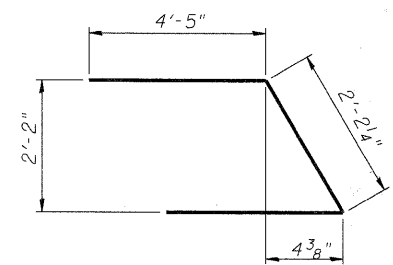


FIELD CUTTING DIAGRAM

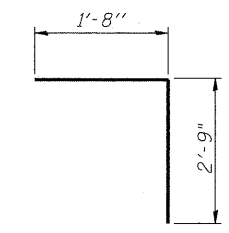
**Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR u(E)



BAR v(E)

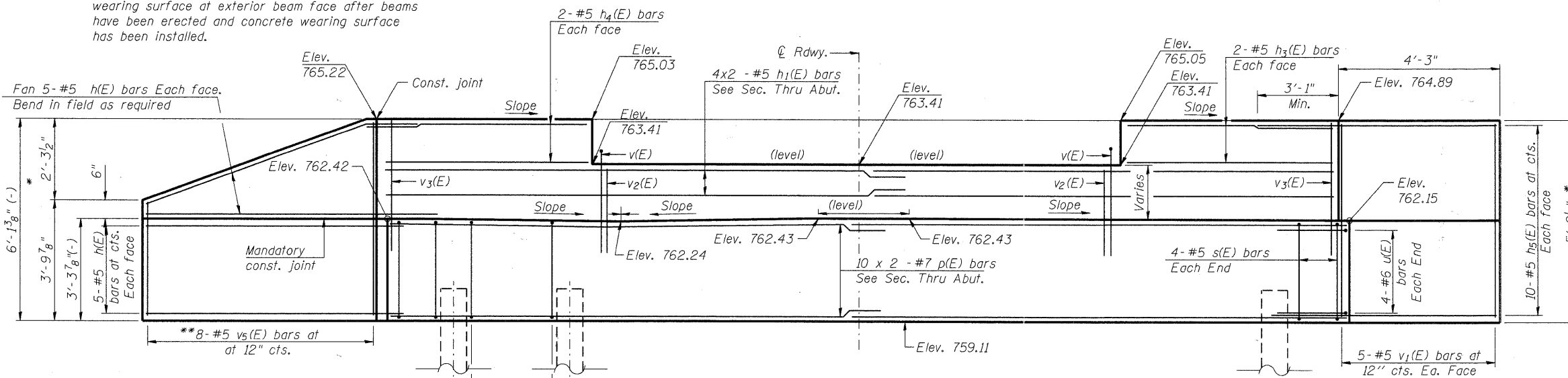
DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

AD-2742-L 11-1-09

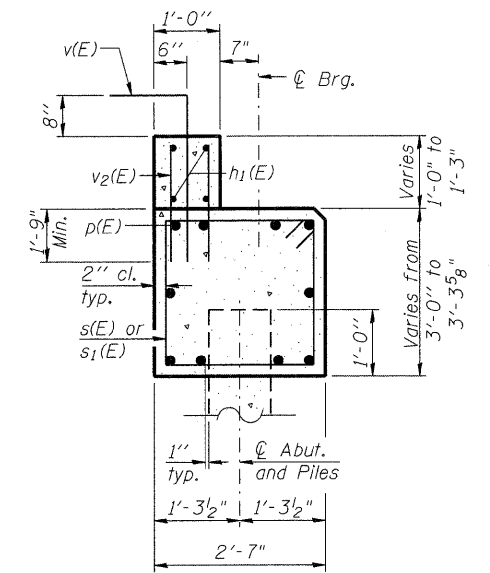
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SHEET NO. S-14 S-20 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	26
CONTRACT NO. 63544			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)		

* Cast top of wingwall flush with top of concrete wearing surface at exterior beam face after beams have been erected and concrete wearing surface has been installed.



ELEVATION
(Looking North)



SECTION A-A
(Dimensions are at Rt. L's)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	20	# 5	10'-4"	
h1 (E)	8	# 5	26'-4"	
h2 (E)	4	# 5	10'-1"	
h4 (E)	4	# 5	11'-10"	
h5 (E)	20	# 5	7'-2"	
p (E)	20	# 7	27'-2"	
s (E)	57	# 5	10'-9"	□
u (E)	8	# 6	11'-0"	┘
v (E)	28	# 5	4'-5"	┘
v1 (E)	10	# 5	5'-5"	
v2 (E)	56	# 5	2'-10"	
v3 (E)	48	# 5	4'-10"	
vs (E)	8	# 5	9'-0"	
Structure Excavation		Cu. Yd.	102	
Concrete Structures		Cu. Yd.	21.3	
Reinforcement Bars, Epoxy Coated		Pound	3,230	
Furnishing Metal Shell Piles 14"x0.250"		Foot	343	
Driving Piles		Foot	343	
Test Pile, Metal Shell		Each	1	

Notes:
For details of piles see sheet S-18.
Cast backwall after beams and concrete wearing surface have been erected.
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

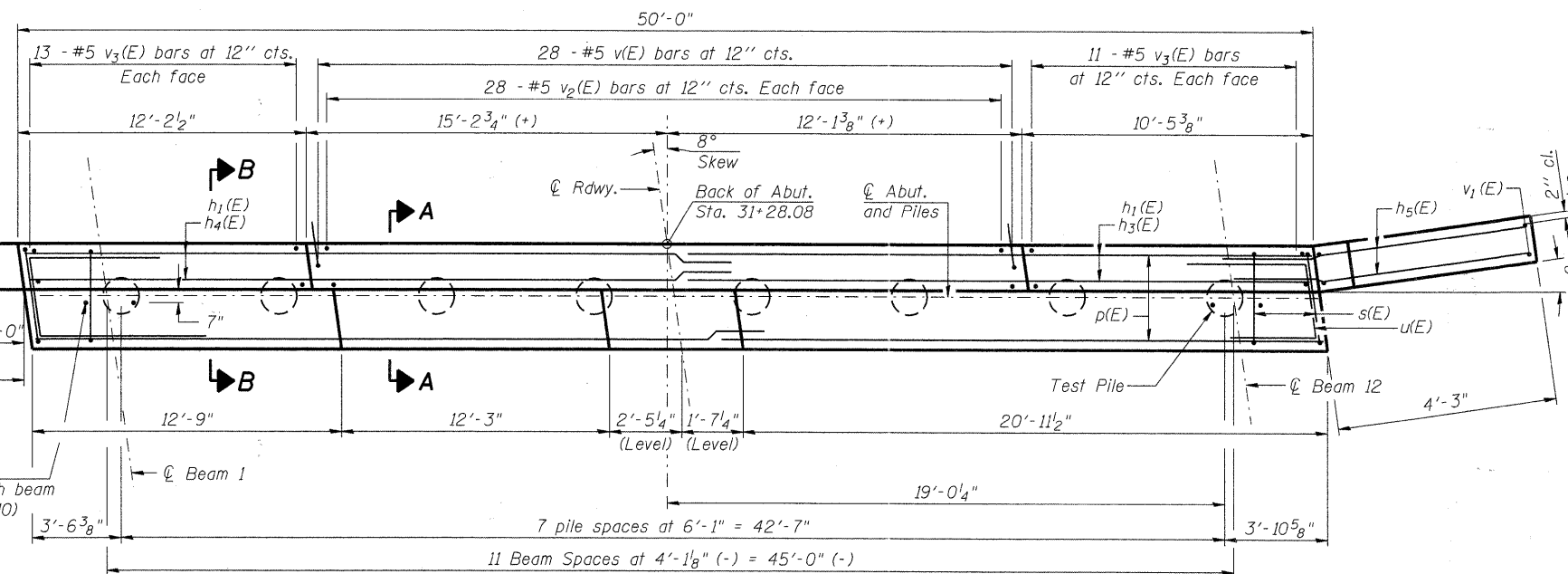
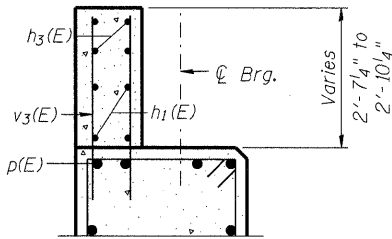
NORTH ABUTMENT DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

DATE: 6/23/11

SHEET NO.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S-15	0157	07-00012-00-BR	MCHENRY	41	27
S-20 SHEETS					CONTRACT NO. 63544
FED. ROAD DIST. NO. 1 ILLINOIS					FED. AID PROJECT BRM-8003 (921)

SECTION B-B

(See Section A-A for Additional Information)



PLAN

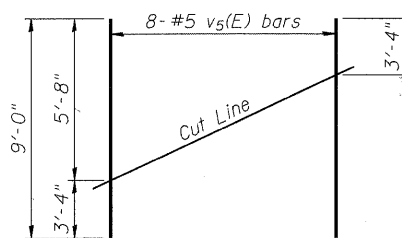
MINIMUM BAR LAP

#5 bar = 2'-11"
#7 bar = 4'-8"

1" φ dowel rods, typ. each beam (see sheet S-10)

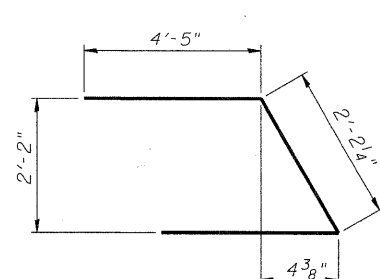
PILE DATA

Type and Size: Metall Shell - 14 in. dia. x 0.25 in. walls
Nominal Required Bearing: 390K
Factored Resistance Available: 130K
Est. Length: 49'
No. Production Piles: 7
No. Test Piles: 1

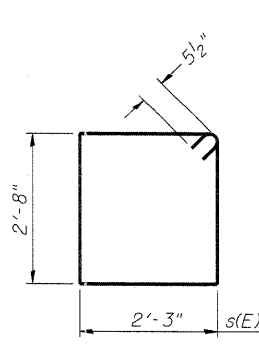


FIELD CUTTING DIAGRAM

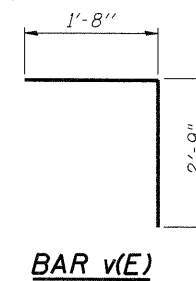
**Order vs(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)



BARS s(E)



BAR v(E)

FILE NAME: 090212.dwg
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

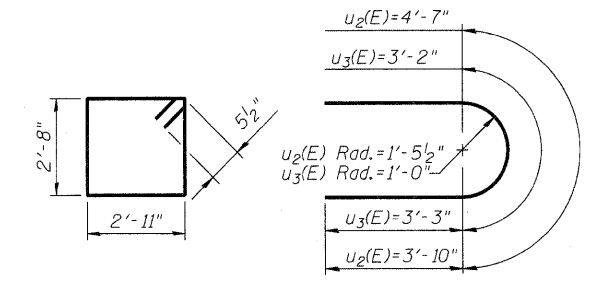
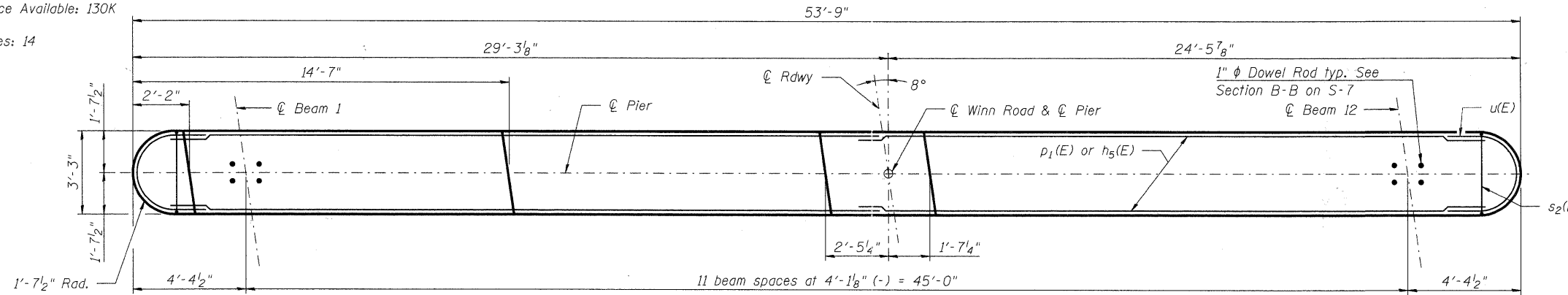
AD-2742-L

11-1-09

Illinois Professional Design Firm # 184-000108
SEC GROUP, INC.
An HR Green Company
420 N. Front Street, McHenry, IL 60050
t. 815.385.1778 f. 815.385.1781
www.secgroupinc.com
McHenry, IL - Yorkville, IL - New Lenox, IL - Chicago, IL

PILE DATA

Type and Size: Metal Shell - 14 in. dia. x 0.25 in. walls
 Nominal Required Bearings: 390K
 Factored Resistance Available: 130K
 Est. Length: 58'
 No. Production Piles: 14
 No. Test Piles: 1



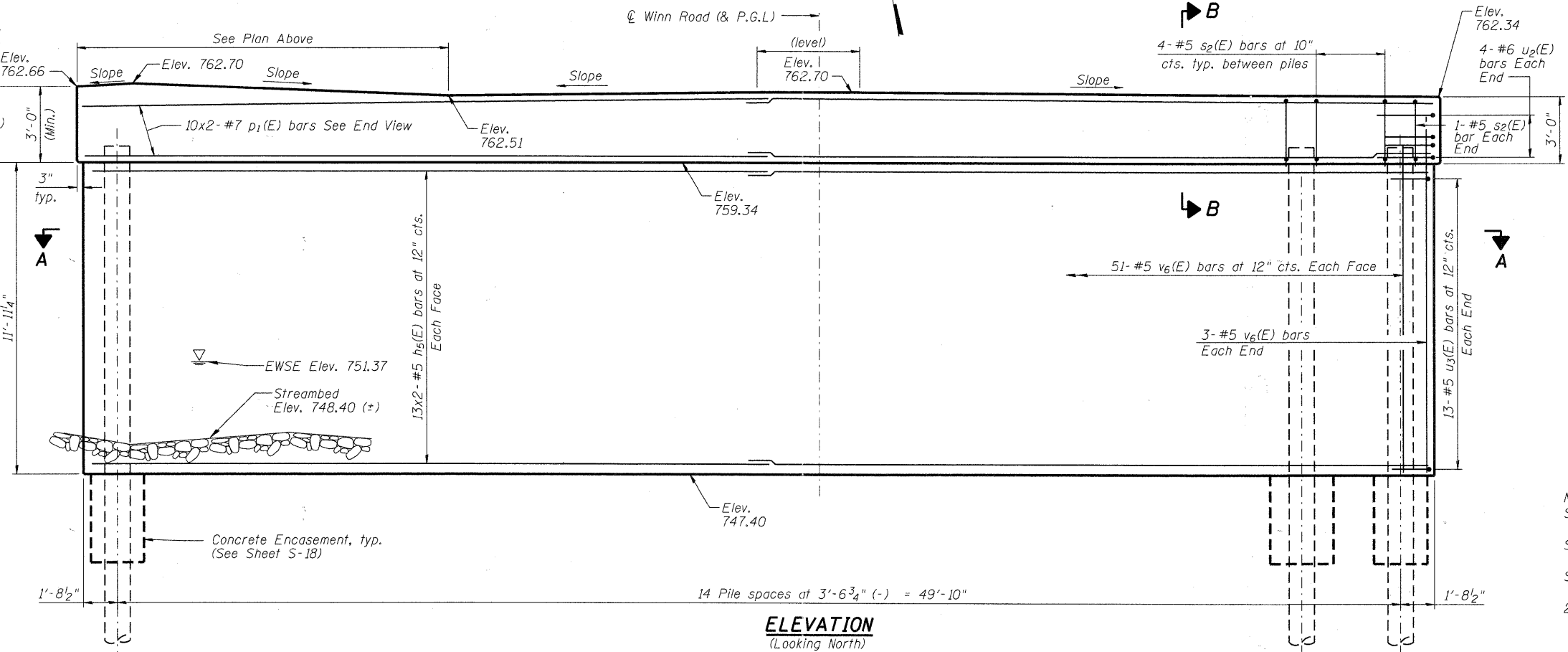
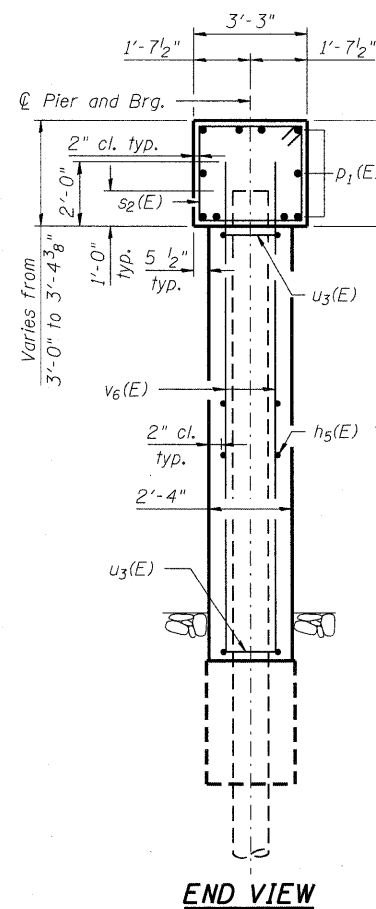
BAR s₂(E) **BARS u₂(E) & u₃(E)**

MINIMUM BAR LAP

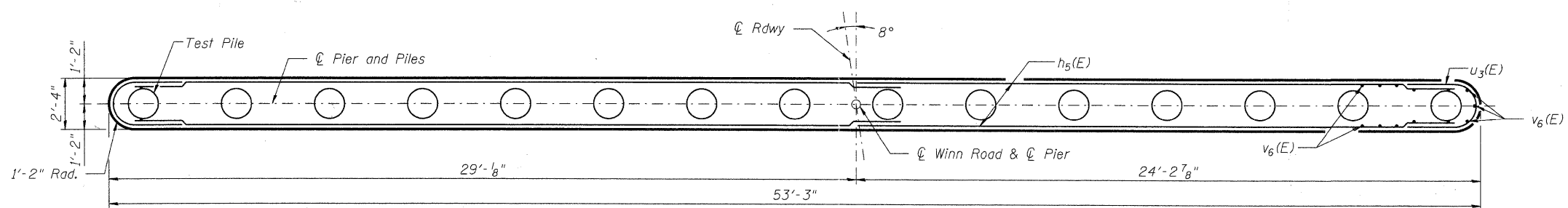
#5 bar = 2'-11"
 #7 bar = 4'-8"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₅ (E)	52	#5	26'-11"	—
p ₁ (E)	20	#7	27'-7"	—
s ₂ (E)	58	#5	12'-1"	□
u ₂ (E)	8	#6	12'-3"	U
u ₃ (E)	26	#5	9'-8"	U
v ₆ (E)	108	#5	13'-9"	—
Structure Excavation			Cu. Yd.	9
Concrete Structures			Cu. Yd.	77.1
Reinforcement Bars, Epoxy Coated			Pound	5,280
Concrete Encasement			Cu. Yd.	7.7
Furnishing Metal Shell Piles - 14" x 0.250"			Foot	812
Driving Piles			Foot	812
Underwater Structure Excavation Protection, Special - Location 1			Each	1
Test Pile, Metal Shells			Each	1



ELEVATION
(Looking North)



SECTION A-A

**PIER 1 DETAILS
 WINN ROAD
 OVER NIPPERSINK CREEK
 F.A.U. ROUTE 0157
 SECTION NO. 07-00012-00-BR
 MCHENRY COUNTY
 STATION 30+56.78
 STRUCTURE NO. 056-6123**

Notes:
 Space reinforcement in cap to miss dowel rods.
 For details of pile and Concrete Encasement, see Sheet S-18.
 See "Underwater Structure Excavation Protection Special" special provision.
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

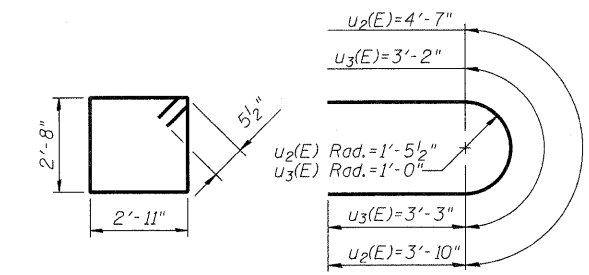
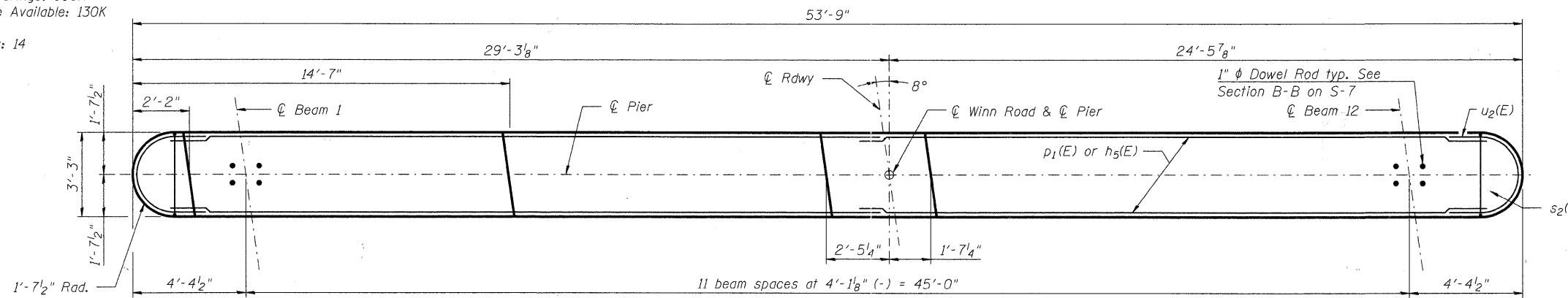


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SHEET NO. S-16 S-20 SHEETS	F.A.U. RTE. 0157	SECTION 07-00012-00-BR	COUNTY McHENRY	TOTAL SHEETS 41	SHEET NO. 28
	CONTRACT NO. 63544				DATE: 6/23/11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					

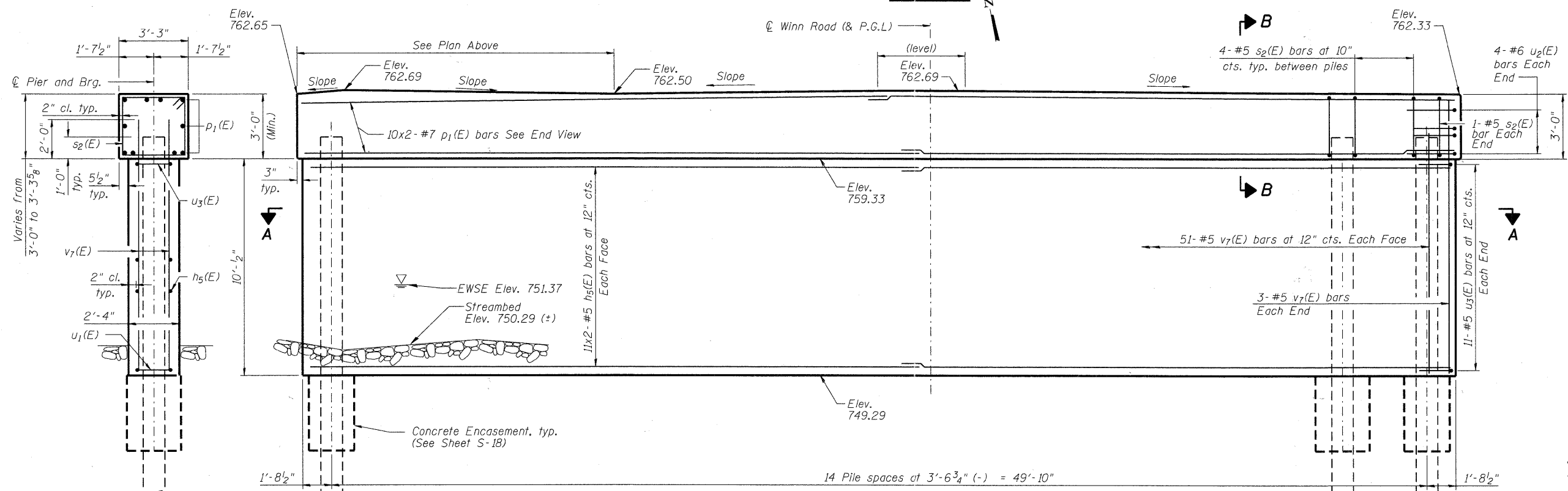
PILE DATA

Type and Size: Metal Shell - 14 in. dia. x 0.25 in. walls
 Nominal Required Bearings: 390K
 Factored Resistance Available: 130K
 Est. Length: 58'
 No. Production Piles: 14
 No. Test Piles: 1

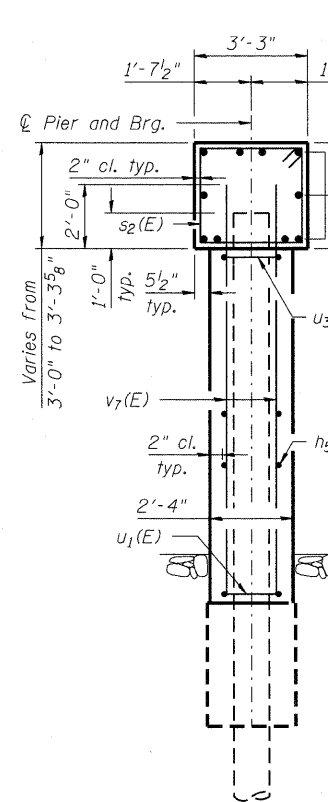


BAR s₂(E) **BARS u₂(E) & u₃(E)**

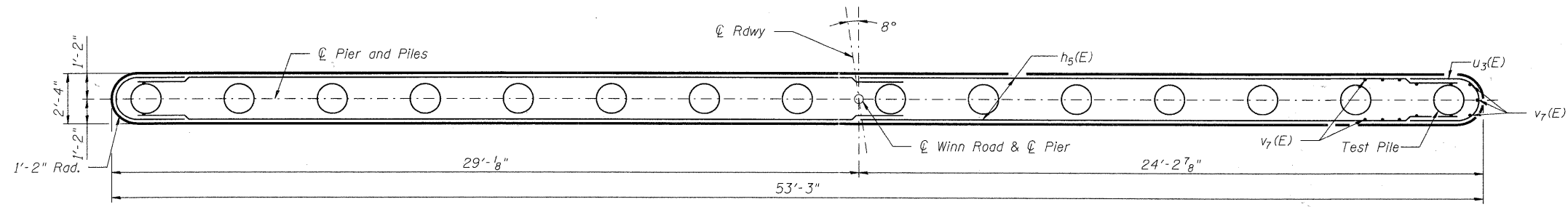
MINIMUM BAR LAP
 #5 bar = 2'-11"
 #7 bar = 4'-8"



ELEVATION
 (Looking North)



END VIEW



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₅ (E)	44	#5	26'-11"	—
p ₁ (E)	20	#7	27'-7"	—
s ₂ (E)	58	#5	12'-1"	□
u ₂ (E)	8	#6	12'-3"	U
u ₃ (E)	22	#5	9'-8"	U
v ₇ (E)	108	#5	11'-10"	—
Structure Excavation			Cu. Yd.	9
Concrete Structures			Cu. Yd.	68.2
Reinforcement Bars, Epoxy Coated			Pound	4,800
Concrete Encasement			Cu. Yd.	7.7
Furnishing Metal Shell Piles - 14" x 0.250"			Foot	812
Driving Piles			Foot	812
Underwater Structure Excavation Protection, Special - Location 2			Each	1
Test Pile, Metal Shells			Each	1

Notes:
 Space reinforcement in cap to miss dowel rods.
 For details of pile and Concrete Encasement, see Sheet S-18.
 See "Underwater Structure Excavation Protection Special" special provision.
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

PIER 2 DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

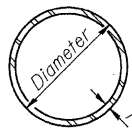
DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD



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 An HR Green Company
 420 N. Front Street, McHenry, IL 60050
 1-815-385-1776 F. 815-385-1761
 www.secgroupinc.com
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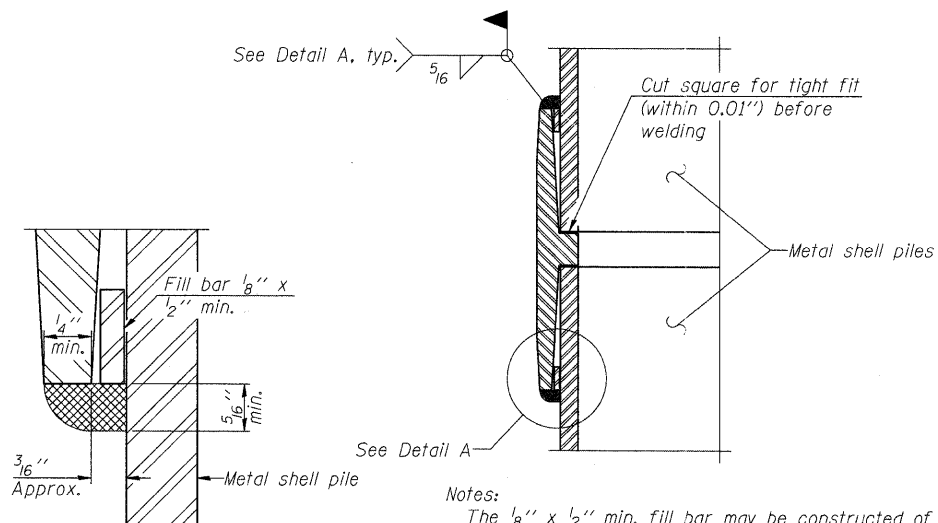
SHEET NO. S-17	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	29
S-20 SHEETS				CONTRACT NO. 63544	
FED. ROAD DIST. NO. 1 ILLINOIS				FED. AID PROJECT BRM-8003 (921)	

DATE: 6/23/11



METAL SHELL PILE TABLE

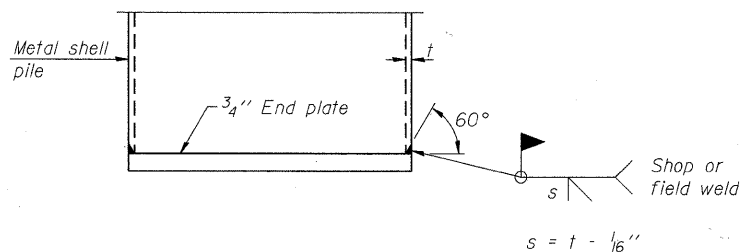
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



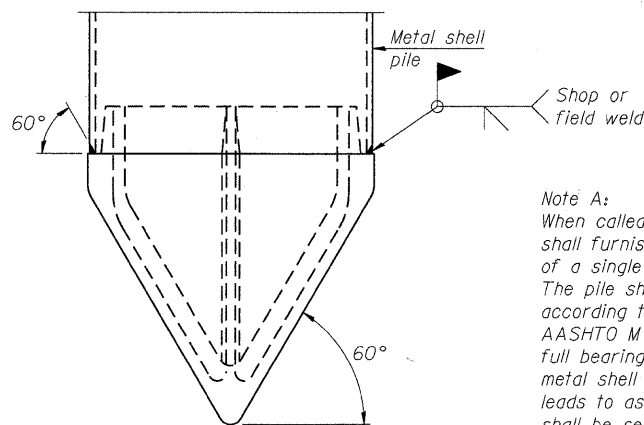
DETAIL A

Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



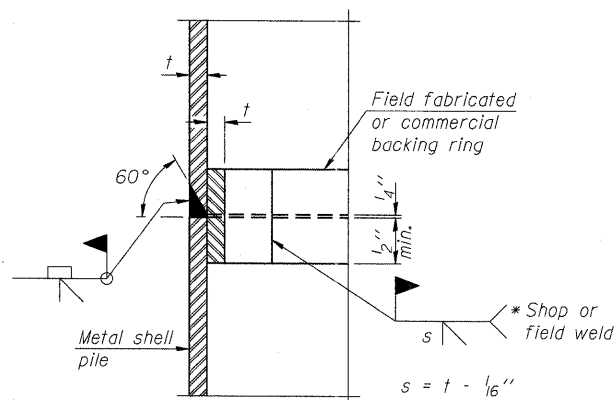
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

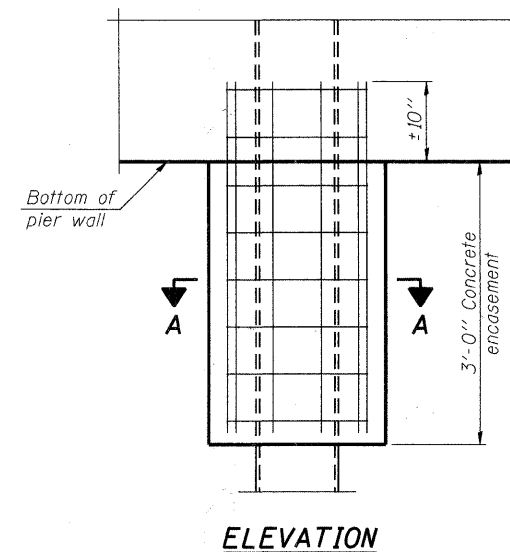
Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over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



COMPLETE PENETRATION WELD SPLICE

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

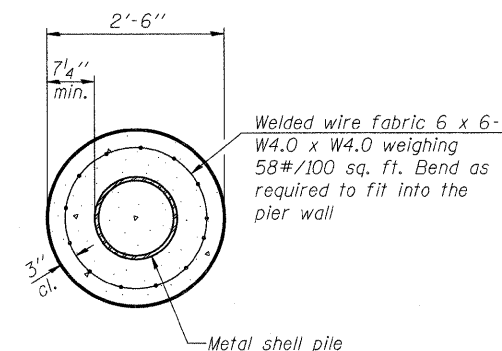
Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.



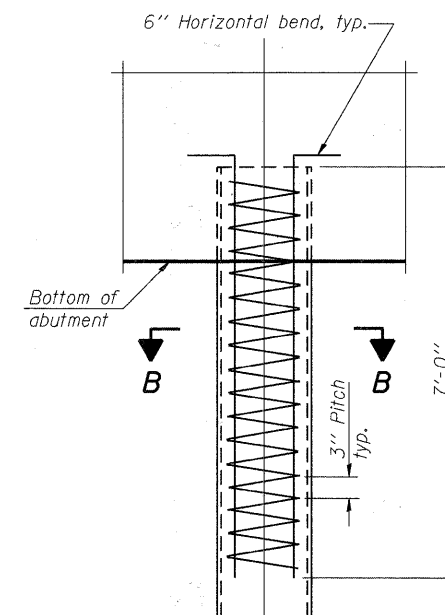
ELEVATION

CONCRETE ENCASUREMENT AT PIERS

Note:
 Forms for encasement may be omitted when soil conditions permit.

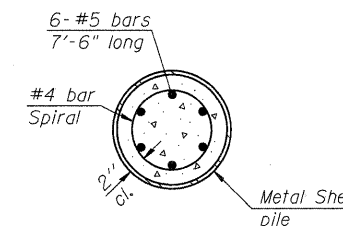


SECTION A-A



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

**METAL SHELL PILE DETAILS
 WINN ROAD
 OVER NIPPERSINK CREEK
 F.A.U. ROUTE 0157
 SECTION NO. 07-00012-00-BR
 MCHENRY COUNTY
 STATION 30+56.78
 STRUCTURE NO. 056-6123**

DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

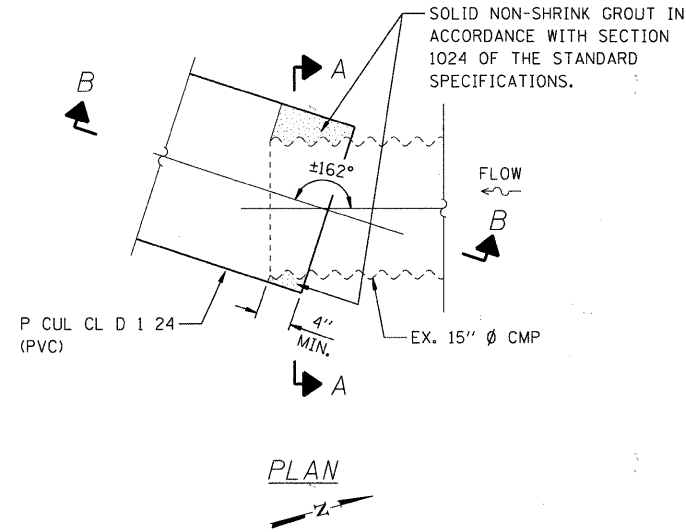
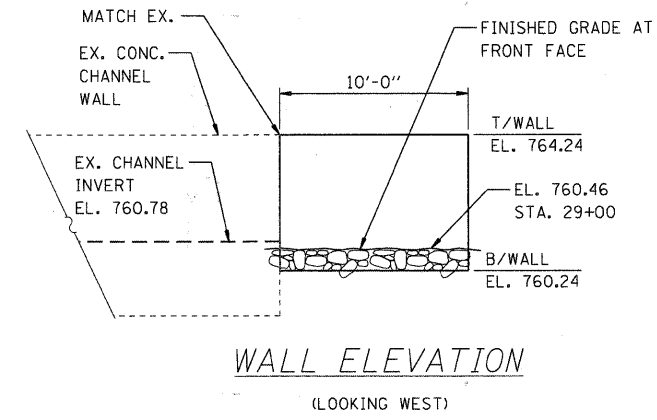
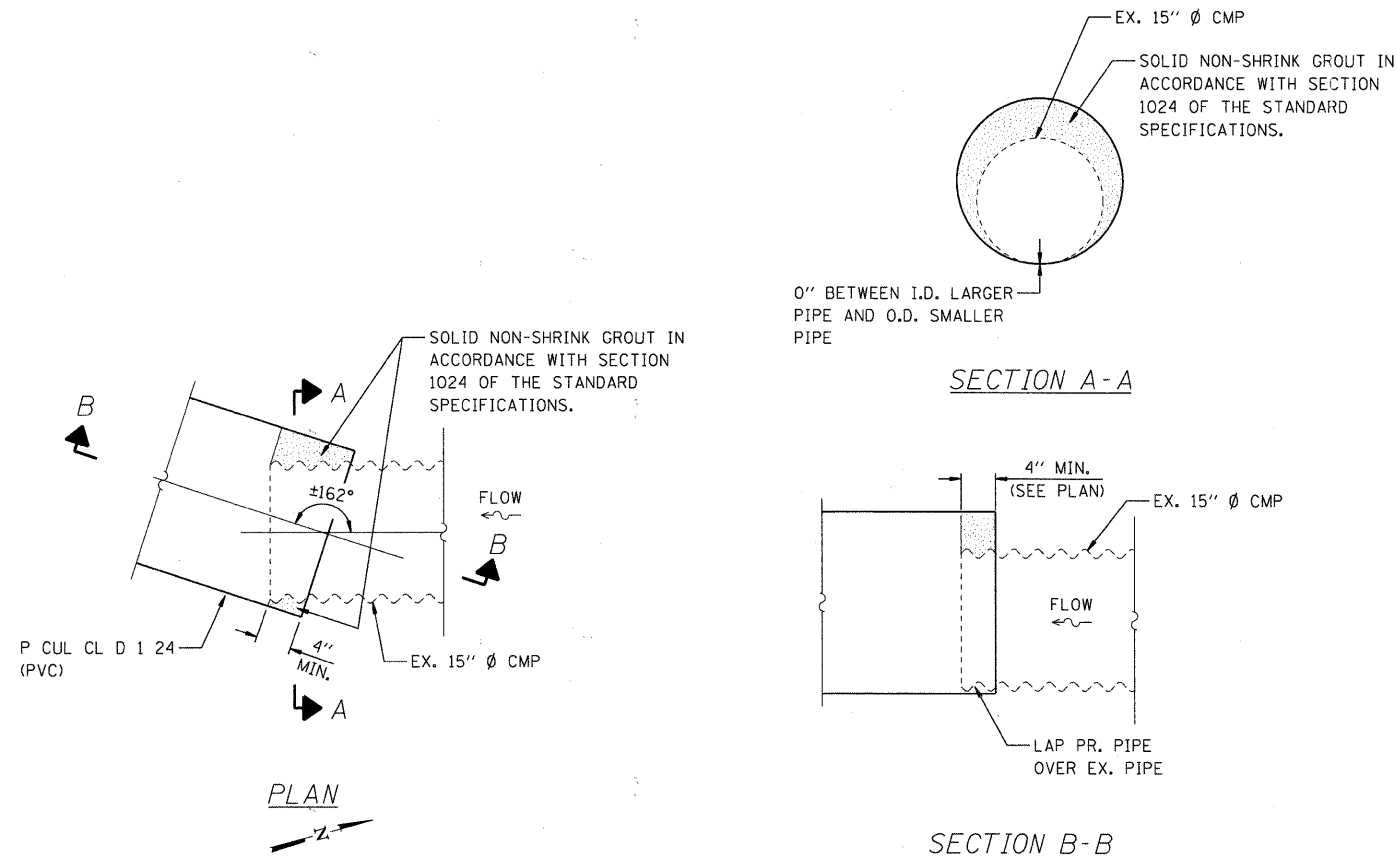
F-MS

11-1-09



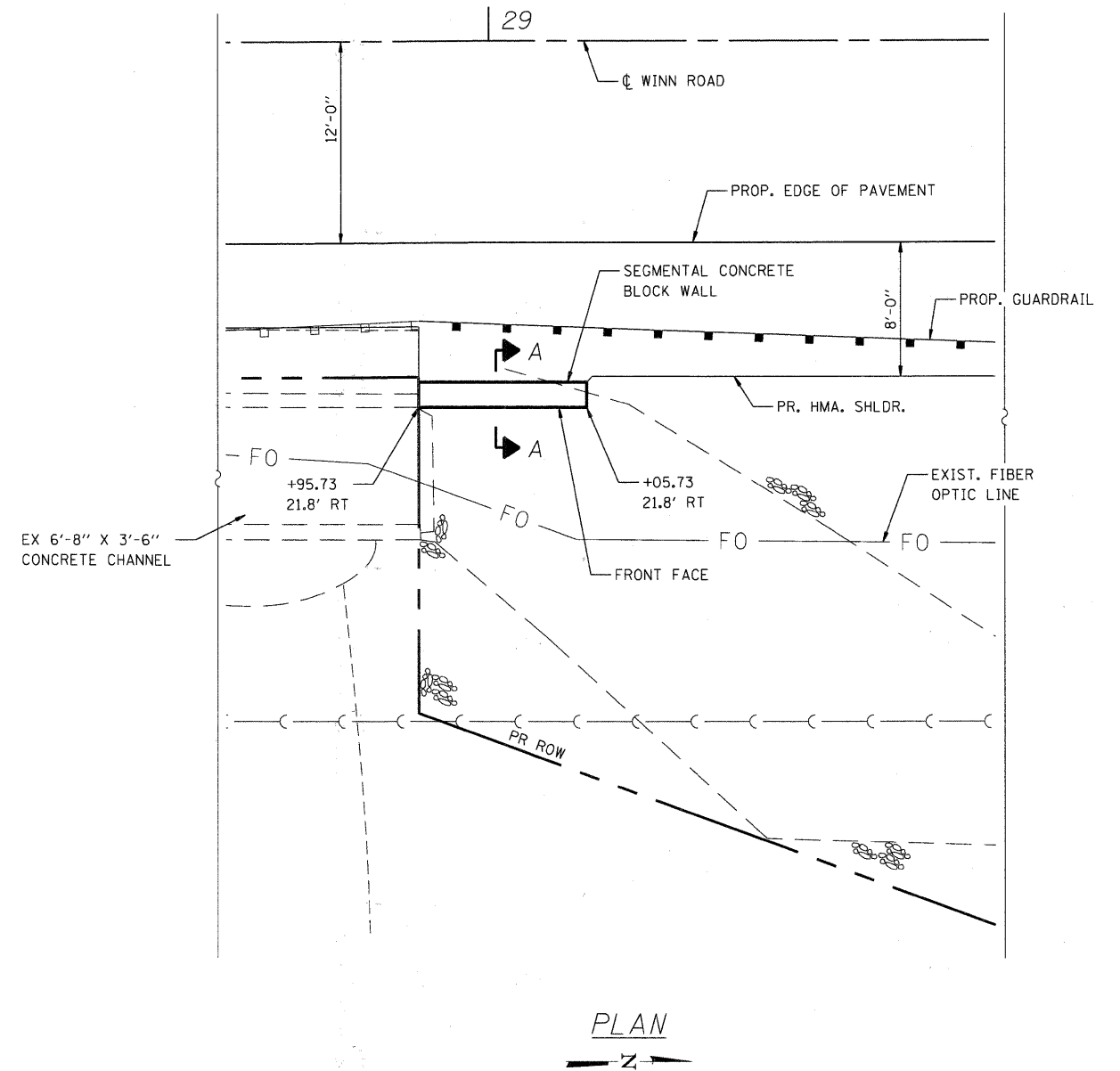
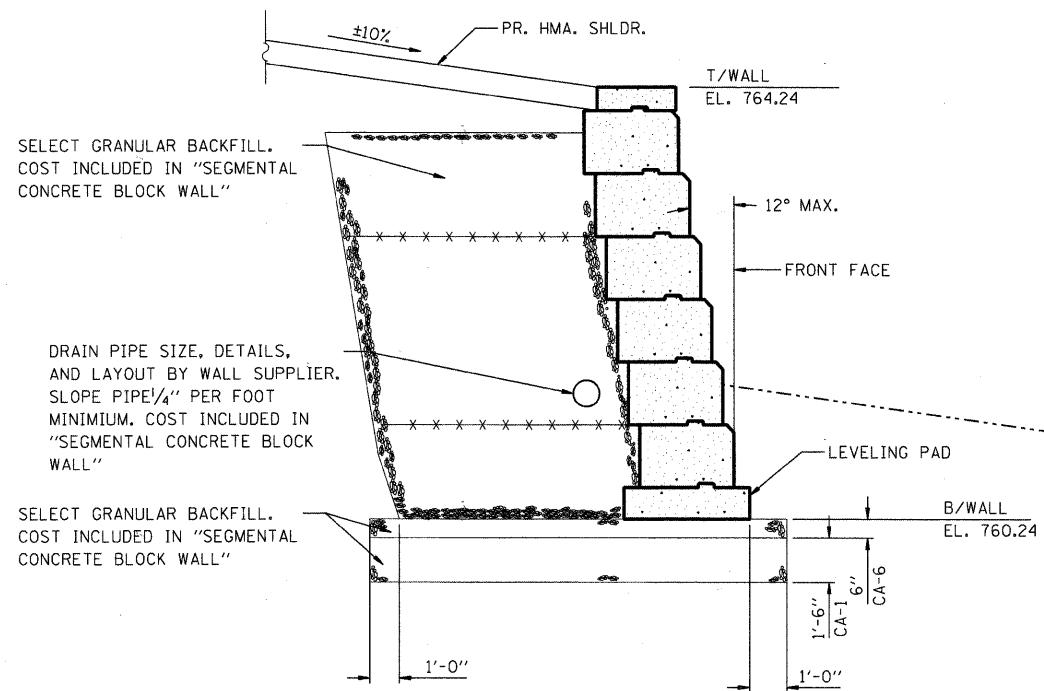
Illinois Professional Design Firm # 184-000108
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SHEET NO. S-18	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	30
S-20 SHEETS			CONTRACT NO. 63544		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					



CULVERT EXTENSION DETAIL

THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF PIPE CULVERTS, CLASS D, TYPE 1 24"



SECTION A-A

PLAN

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert G. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:21:06 PM
 FILE NAME: 090212.Det101.dgn
 PLOT DRIVER: pdt.plt
 PLOT TABLE: s1rnculv-d-trans.tbl

SEC Group, Inc.
 An HR Green Company
 420 N. First Street
 Moline, IL 61901-5106
 1-815-336-1773 | 1-815-385-1781
 www.secgroupinc.com
 -Chicago, IL -Spring Grove, IL -New Lenox, IL -Chicago, IL

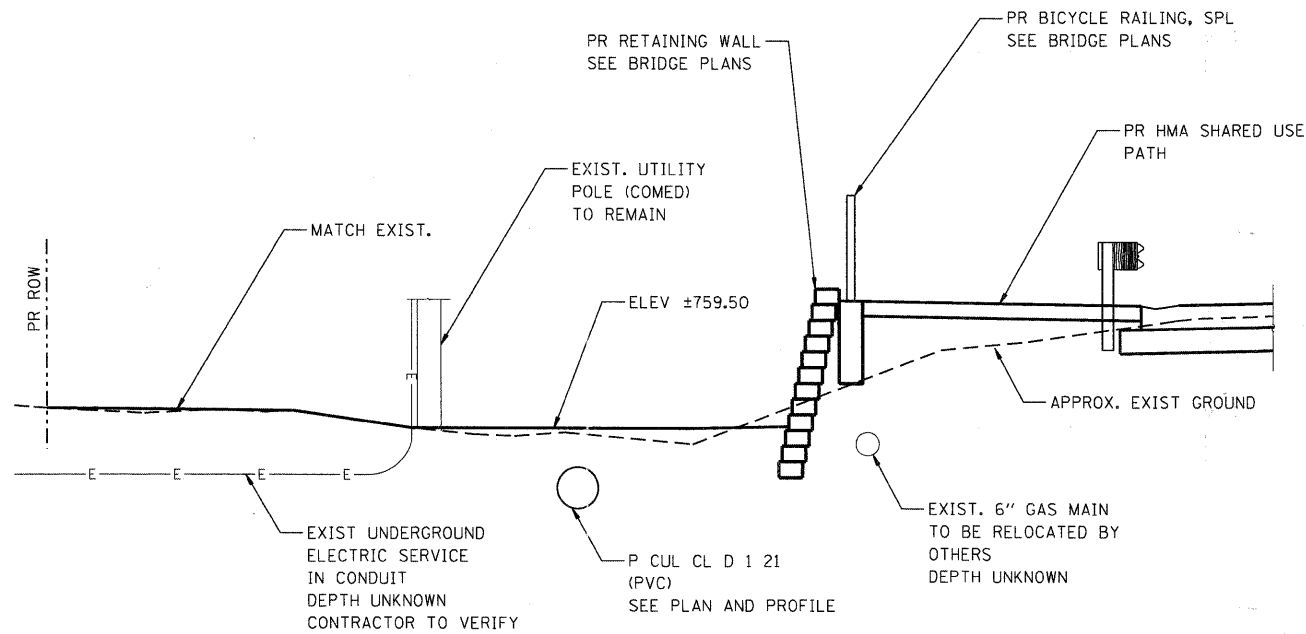
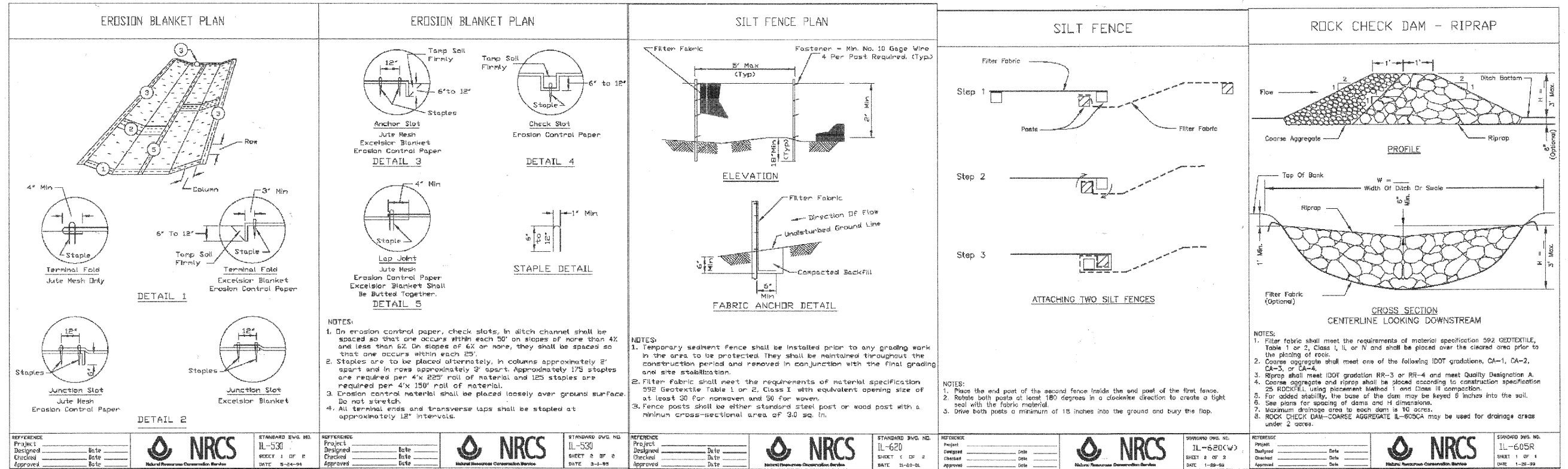
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PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

CONSTRUCTION DETAILS
WINN ROAD

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 0157	SECTION 07-00012-00-BR	COUNTY MCHENRY	TOTAL SHEETS 41	SHEET NO. 33
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63544				



SEC GROUP, INC.
 PROJECT CONTACT:
 CLIENT:
 DATE PLOTTED:
 FILE NAME:
 PLOT DRIVER:
 PEN TABLE:

SEC Group, Inc.
 An HGI Green Company
 401 N. First Street,
 Moline, IL 62450-2136
 L 815.385.1778 F 815.385.1701
 www.secgroup.com

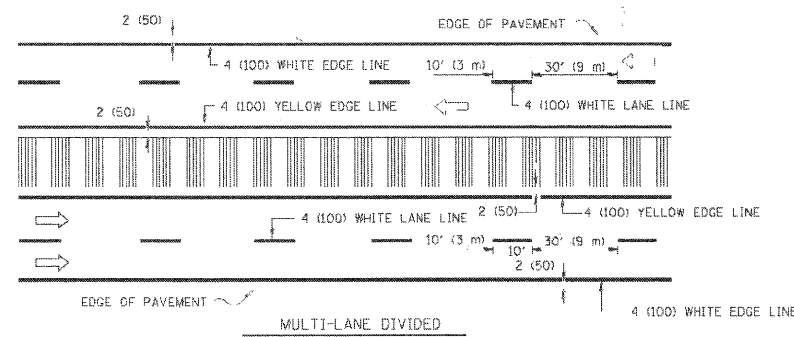
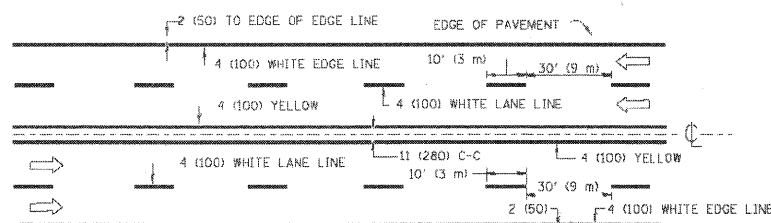
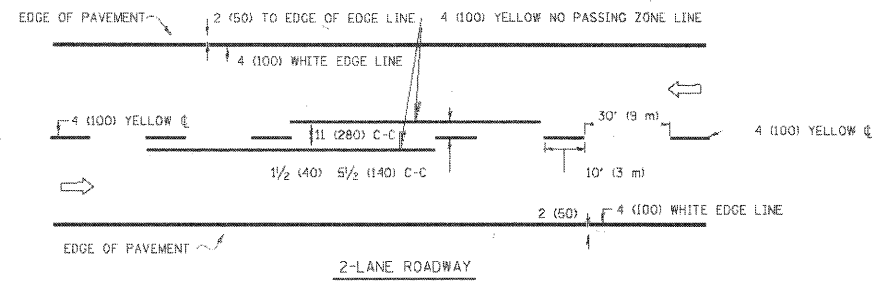
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PLLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

CONSTRUCTION DETAILS
WINN ROAD

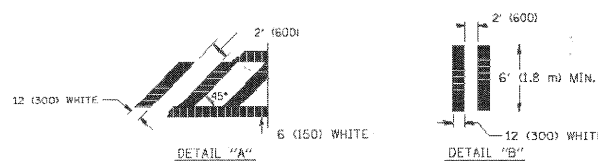
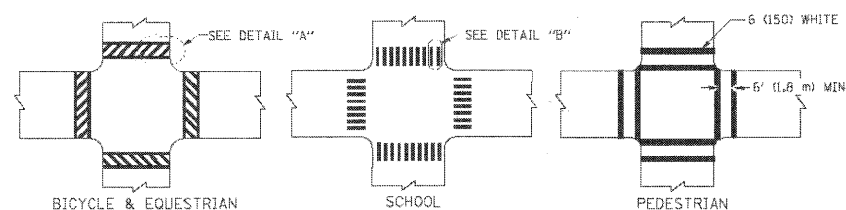
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63544				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

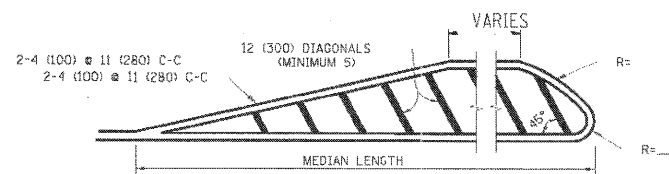
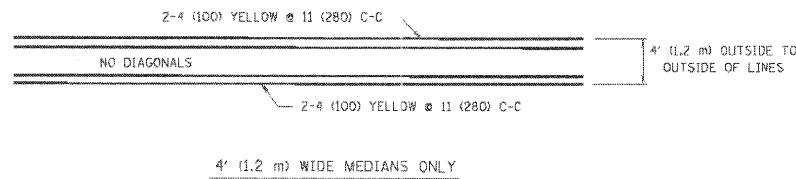


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

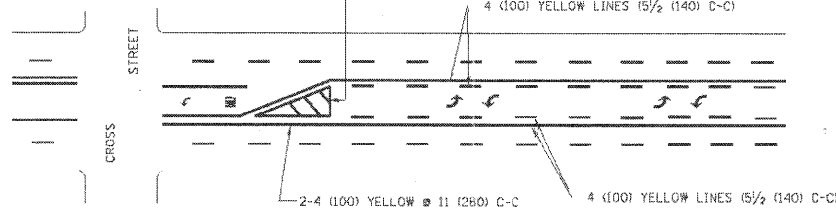


TYPICAL CROSSWALK MARKING



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

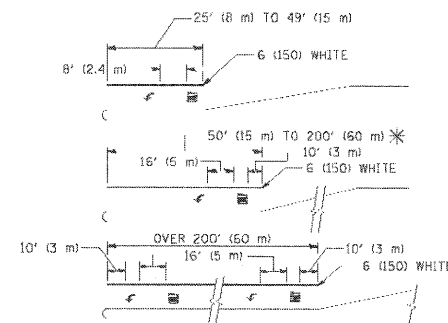


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

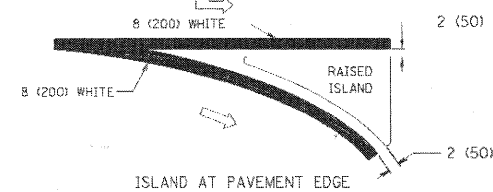
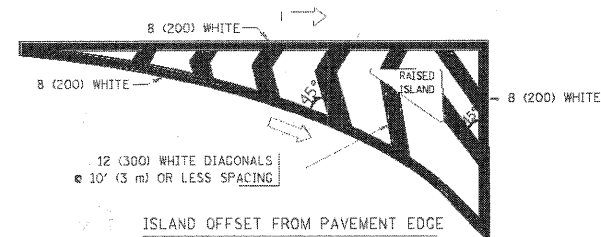
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: Robert G. Davies
CLIENTS: Village of Spring Grove
DATE PLOTTED: 6/23/2011 2:28:34 PM
FILE NAME: 090212.Det103.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl



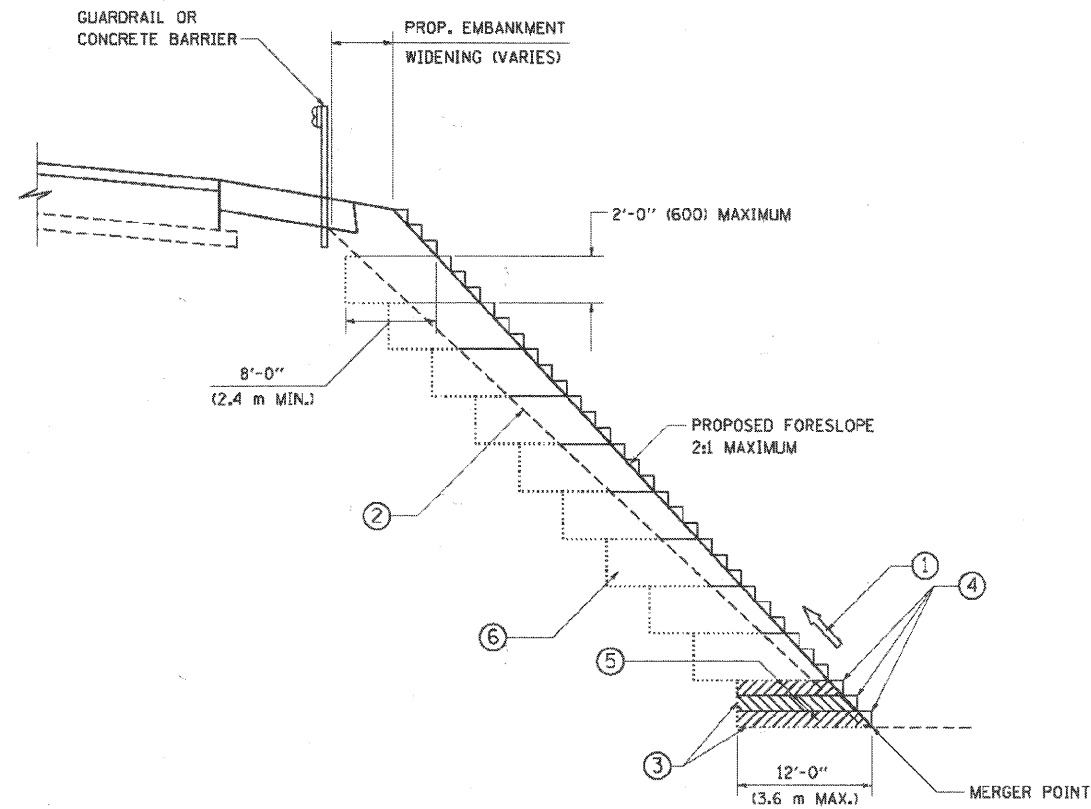
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	35
TC-13		CONTRACT NO. 63544		
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT				



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

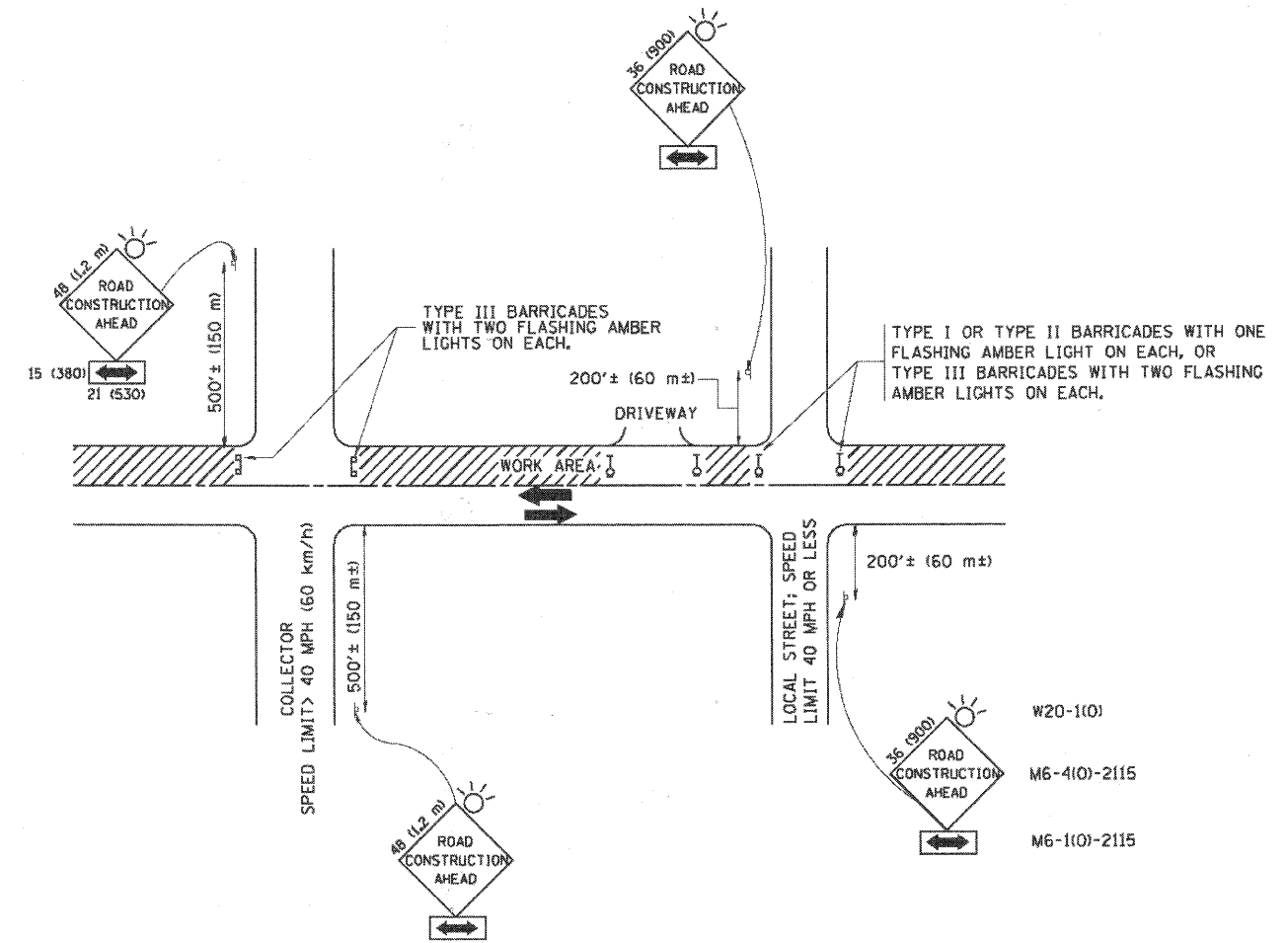
REVISIONS	NAME	DATE
		06/16/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL FOR EMBANKMENT WIDENING

SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY: CADD
CHECKED BY: S.E.B.
BD-51



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: Robert G. Davies
CLIENT: Village of Spring Grove
DATE PLOTTED: 6/23/2011 2:21:39 PM
FILE NAME: 090212.Dwg
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

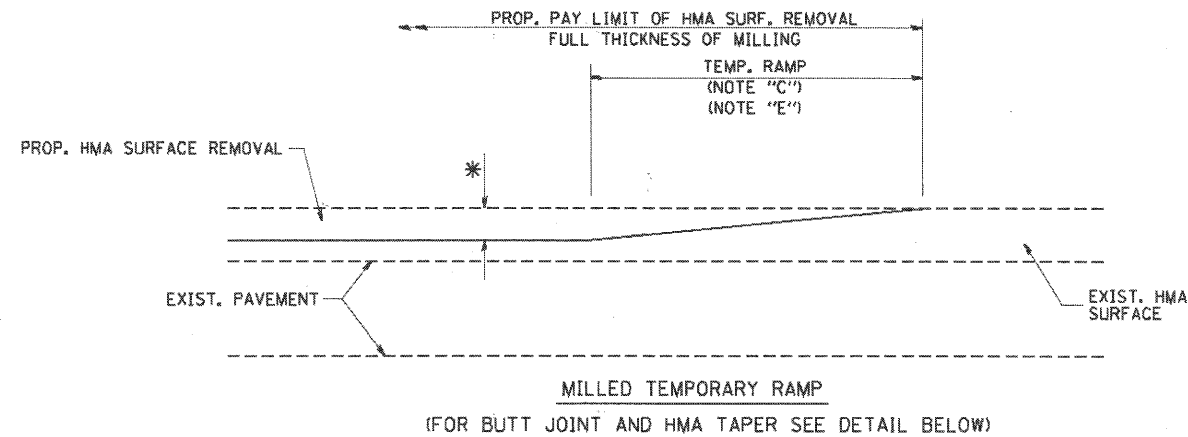
USER NAME	DESIGNED	REVISIONS
w. hood	-	-
FILE NAME = 090212.Dwg	DRAWN	REVISIONS
PLOT SCALE =	CHECKED	REVISIONS
PLOT DATE = 6/23/2011	DATE = 6/23/11	REVISIONS

VILLAGE OF SPRING GROVE

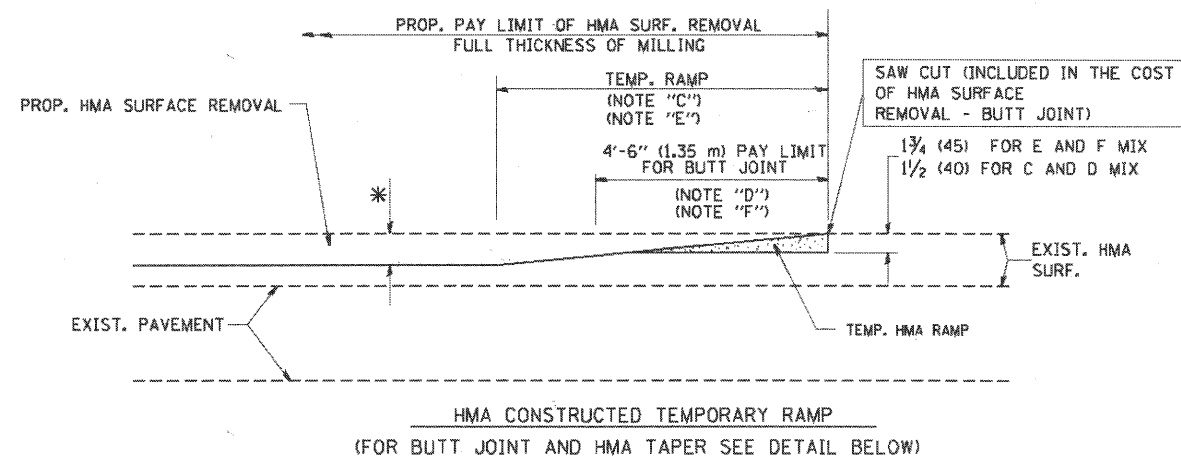
BENCHING DETAIL FOR EMBANKMENT AND TRAFFIC CONTROL PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	36
TC-10			CONTRACT NO. 63544	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

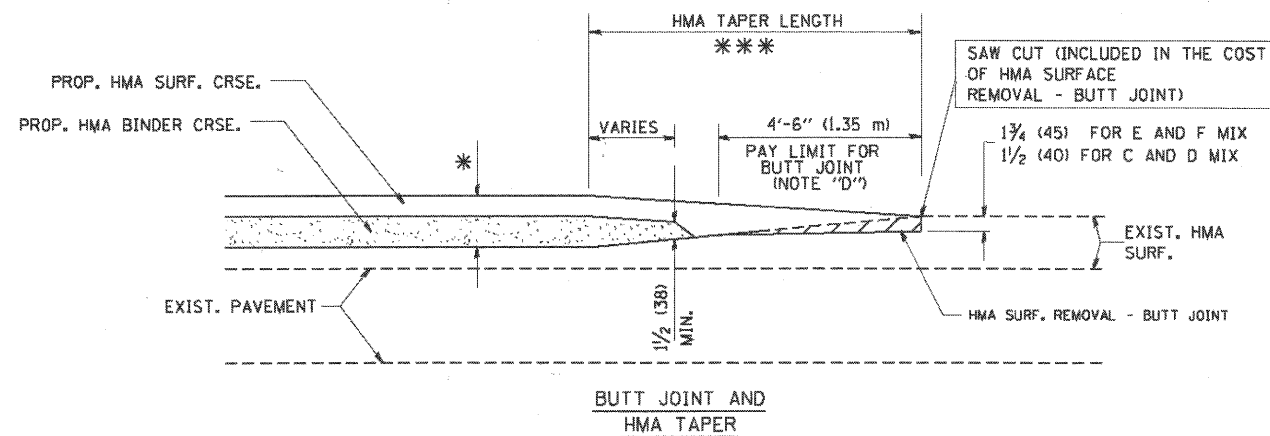


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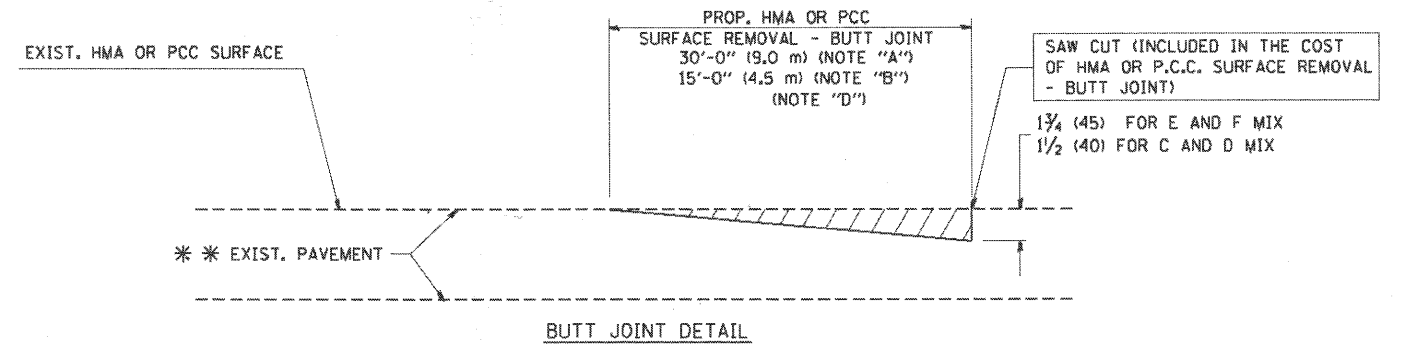


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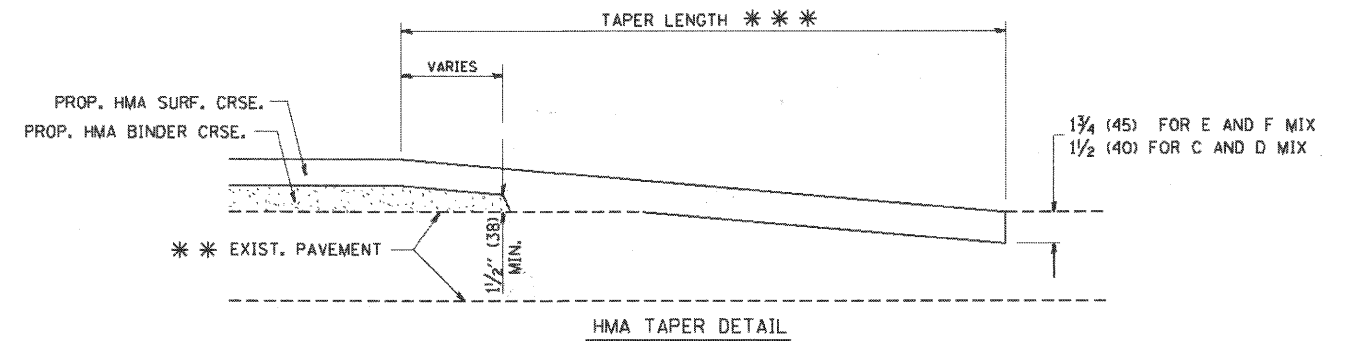
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: Robert C. Davies
CLIENT: Village of Spring Grove
DATE PLOTTED: 6/23/2011 2:21:41 PM
FILE NAME: 090212_De105.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

SEC Group, Inc.
An HR Green Company
420 N. Paul Street
Moline, IL 61905-1138
L 815.385.1778 F 815.385.1781
www.secgroupinc.com
Moline, IL • Yorkville, IL • Naperville, IL • Chicago, IL

USER NAME = sghobhobh	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
FILE NAME = 090212_De105.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 50.00000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 6/23/2011	DATE - 06/23/11	REVISED - R. BORO 01-01-07

VILLAGE OF SPRING GROVE

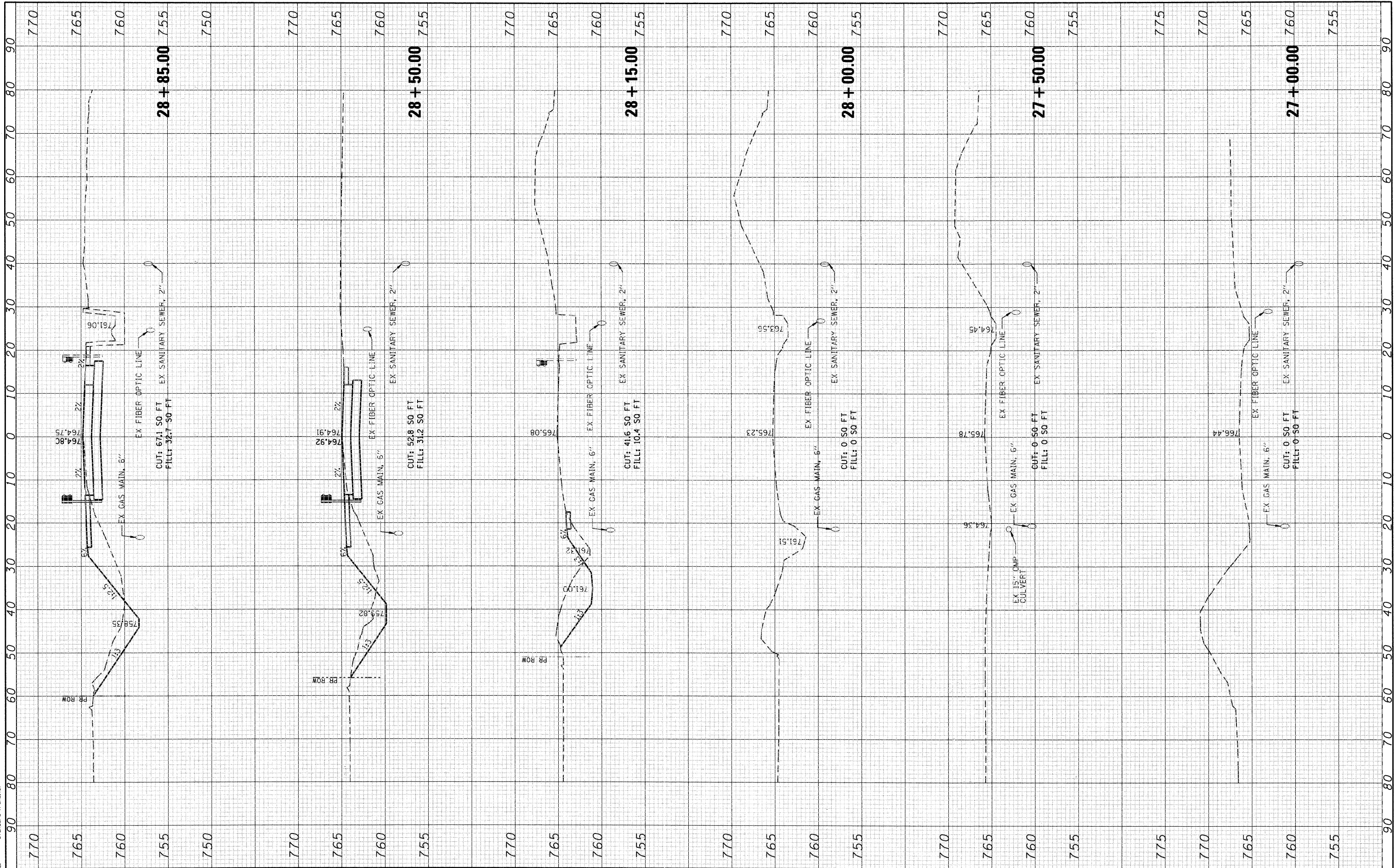
BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TD STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	37
BD400-05 BD32		CONTRACT NO. 63544		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:01:45 PM
 FILE NAME: 090212.as.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl



SEC Group, Inc.
 An HR Green Company
 400 N. First Street
 Mchenry, IL 60050-2156
 t 815.385.1778 f 815.385.1781
 www.secgroup.com
 *Mchenry, IL *Yorkville, IL *New Lenoir, IL *Chicago, IL

USER NAME = whood	DESIGNED - KMA	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE = 10H:5V	CHECKED - RGD	REVISED -
PLOT DATE = 6/23/2011	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

CROSS SECTIONS WINN ROAD

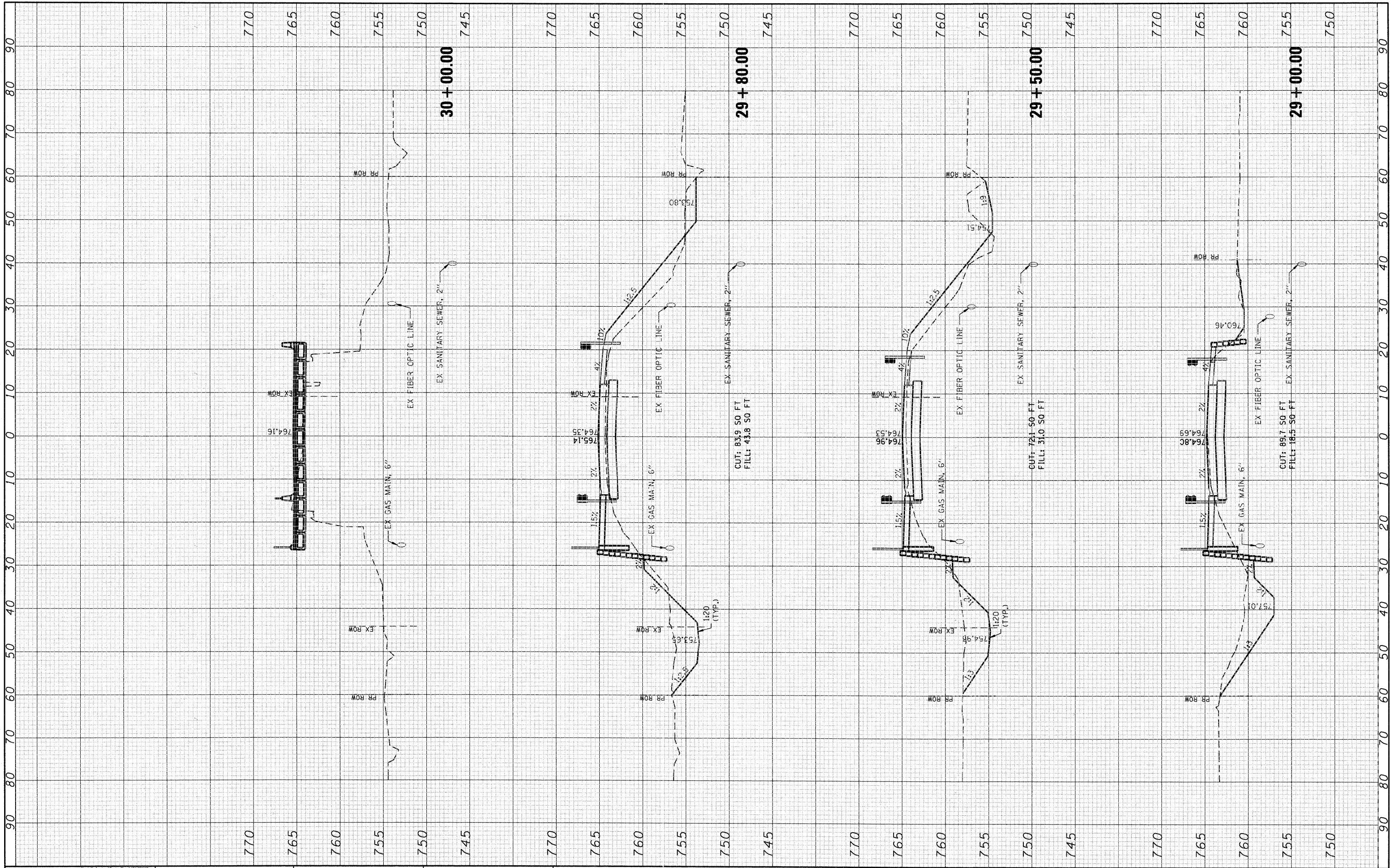
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F.A. RTE. 0157	SECTION 07-00012-00-BR	COUNTY MCHENRY	TOTAL SHEETS 41	SHEET NO. 38
CONTRACT NO. 63544			ILLINOIS FED. AID PROJECT	

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

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

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:21:52 PM
 FILE NAME: 090212_xs.dgn
 PLOT DRIVER: pdf2plf
 PEN TABLE: sfgendar-d-trans.tbl



SEC Group, Inc.
 An HR Green Company
 420 N. Front Street
 McHenry, IL 60050-1156
 1-815-365-1778 • 815-385-1761
 www.secgroup.com
 McHenry, IL • Yorkville, IL • New Leno, IL • Chicago, IL

USER NAME = whood	DESIGNED - KMA	REVISED -
PLOT SCALE = 10'H=5'	DRAWN - WJH	REVISED -
PLOT DATE = 6/23/2011	CHECKED - RGD	REVISED -
	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

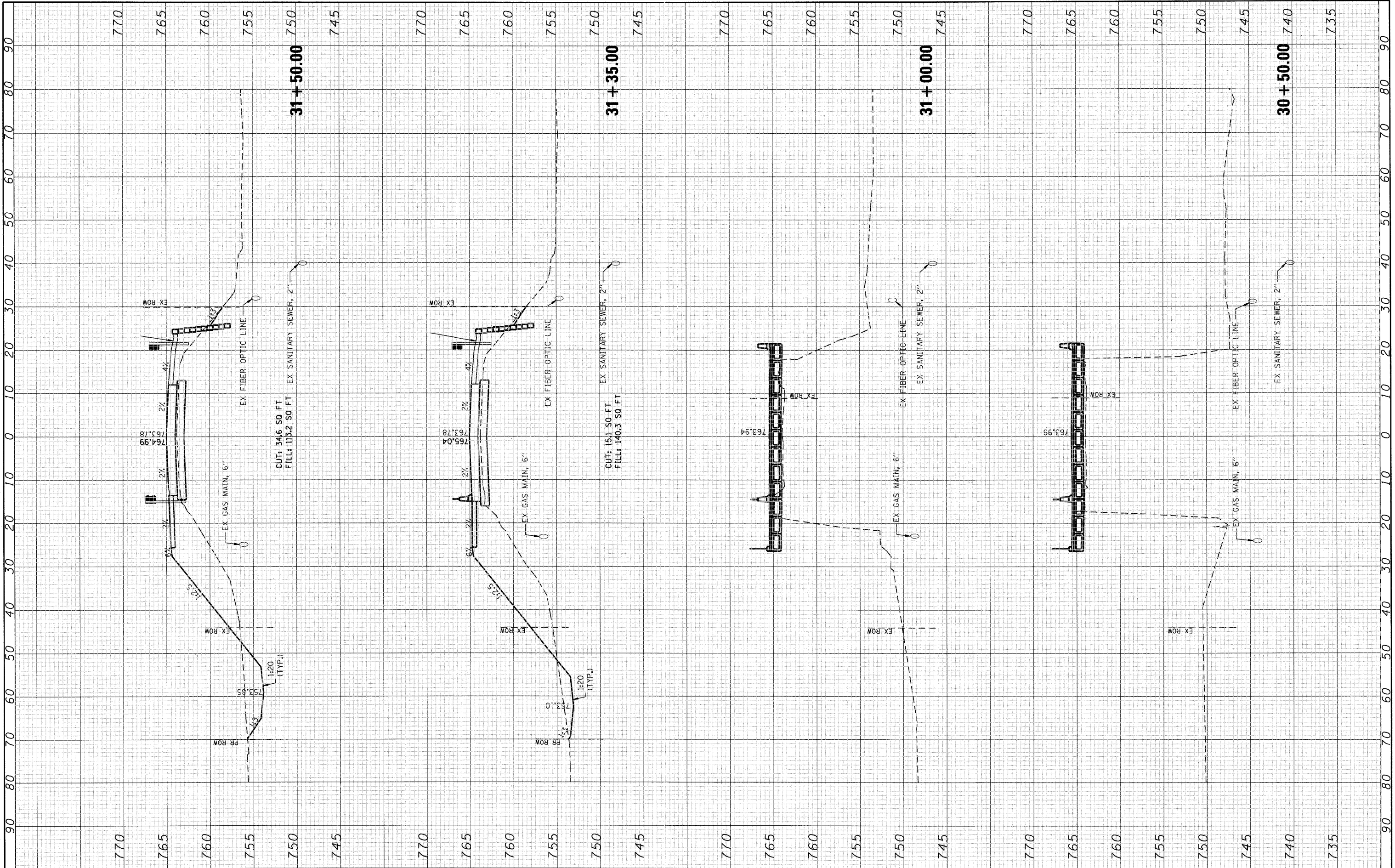
CROSS SECTIONS	
WINN ROAD	
SCALE: 10H=5V	SHEET NO. 2 OF 4 SHEETS
STA. 29+00.00	TO STA. 30+00.00

F.A. RTE. 0157	SECTION 07-00012-00-BR	COUNTY MCHENRY	TOTAL SHEETS 41	SHEET NO. 39
CONTRACT NO. 63544				
ILLINOIS FED. AID PROJECT				

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

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

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:21:58 PM
 FILE NAME: 090012_xs.dgn
 PLOT DRIVER: pspplot
 PEN TABLE: standard-frames.tbl



SEC Group, Inc.
 An HR Green Company
 2514 Farm Street
 Mchenry, IL 60050-3136
 T: 815.365.1779 F: 815.365.1781
 www.secgroupinc.com
 Mchenry, IL, Yorkville, IL, New Lenox, IL, Chicago, IL

USER NAME = whoad	DESIGNED - KMA	REVISED -
PLOT SCALE = 10H:5V	DRAWN - WJH	REVISED -
PLOT DATE = 6/23/2011	CHECKED - RGD	REVISED -
	DATE - 6/23/11	REVISED -

DESIGNED - KMA	REVISED -
DRAWN - WJH	REVISED -
CHECKED - RGD	REVISED -
DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

**CROSS SECTIONS
 WINN ROAD**

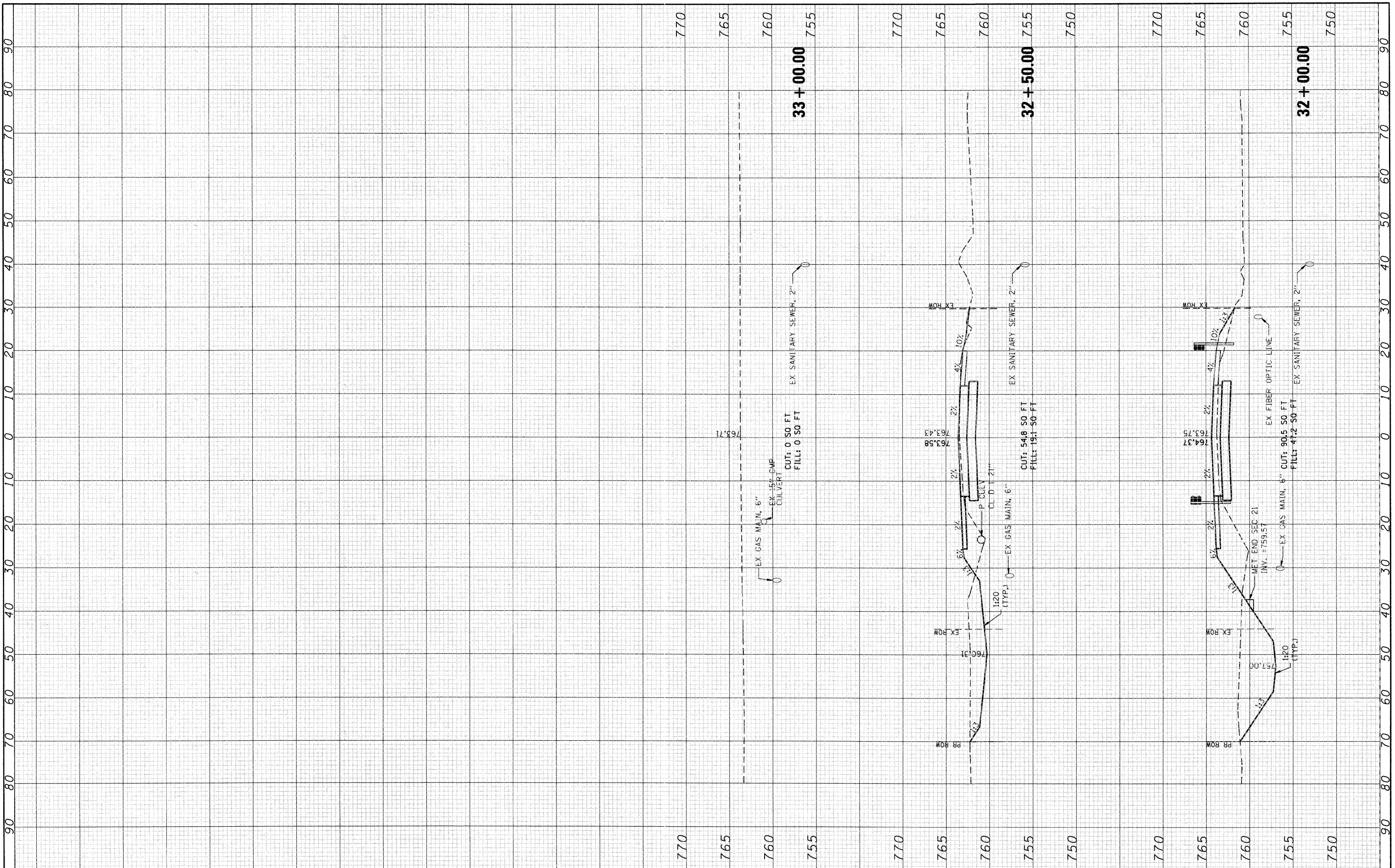
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	40
CONTRACT NO. 63544			ILLINOIS FED. AID PROJECT	

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: Robert C. Davies
 CLIENT: Village of Spring Grove
 DATE PLOTTED: 6/23/2011 2:22:07 PM
 FILE NAME: 090212.sxdgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-trans.tbl

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

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



SEC Group, Inc.
 An IRI Group Company
 420 N. Front Street
 Mettawa, IL 60060-2150
 P: 815.385.1700, F: 815.385.1781
 www.secgroupinc.com
 Mettawa, IL • Naperville, IL • New Lenox, IL • Chicago, IL

USER NAME = whood	DESIGNED - KMA	REVISED -
PLOT SCALE = 10H:5V	DRAWN - WJH	REVISED -
PLOT DATE = 6/23/2011	CHECKED - RGD	REVISED -
	DATE - 6/23/11	REVISED -

VILLAGE OF SPRING GROVE

CROSS SECTIONS WINN ROAD

SCALE: 10H:5V SHEET NO. 4 OF 4 SHEETS STA. 32+00.00 TO STA. 33+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0157	07-00012-00-BR	MCHENRY	41	41
CONTRACT NO. 63544			ILLINOIS FED. AID PROJECT	