

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE COUNTY DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
				BRIDGE 0011
20101000	TEMPORARY FENCE	FOOT	20	20
20101100	TREE TRUNK PROTECTION	EACH	1	1
20101200	TREE ROOT PRUNING	EACH	1	1
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	1	1
20200100	EARTH EXCAVATION	CU YD	2,270	2,270
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,326	1,326
20300100	CHANNEL EXCAVATION	CU YD	945	945
20400800	FURNISHED EXCAVATION	CU YD	29	29
20800150	TRENCH BACKFILL	CU YD	18	18
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,564	2,564
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	7,782	7,782
25000210	SEEDING, CLASS 2A	ACRE	1.4	1.4
25000310	SEEDING, CLASS 4	ACRE	0.8	0.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	198	198
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	198	198
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	198	198
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	7,782	7,782
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	220	220
28000305	TEMPORARY DITCH CHECKS	FOOT	220	220
28000400	PERIMETER EROSION BARRIER	FOOT	2,313	2,313
28000510	INLET FILTERS	EACH	2	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	598	598
28200200	FILTER FABRIC	SQ YD	598	598
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	975	975
40600300	AGGREGATE (PRIME COAT)	TON	13	13
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1,948	1,948
42001300	PROTECTIVE COAT	SQ YD	6	6
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	292	292
44000100	PAVEMENT REMOVAL	SQ YD	2,160	2,160
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	276	276
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	637	637
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	240	240
50300225	CONCRETE STRUCTURES	CU YD	54.7	54.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	108.4	108.4
50300260	BRIDGE DECK GROOVING	SQ YD	501	501
50300300	PROTECTIVE COAT	SQ YD	590	590
50400705	PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	SQ FT	3,075	3,075
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	39,550	39,550
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	880	880
51202305	DRIVING PILES	FOOT	880	880
51203200	TEST PILE METAL SHELLS	EACH	2	2

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DRAWN - BCD	REVISED -
CHECKED - MDW	REVISED -
DATE - 10/08/10	FILE -

MCHENRY COUNTY DIVISION OF TRANSPORTATION
GRAF ROAD BRIDGE OVER
WEST BRANCH PISCASAW CREEK

SUMMARY OF QUANTITIES

SCALE: NONE

STA.

TO STA.

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DATE -	10/08/10	FILE -	

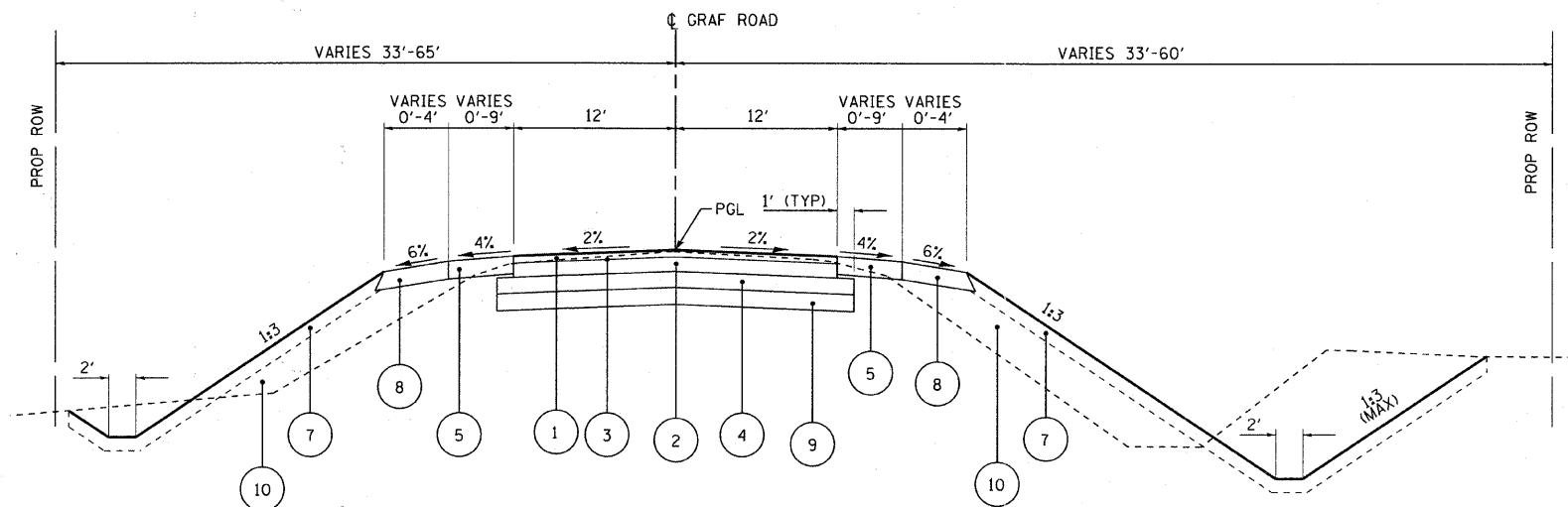
MCHENRY COUNTY DIVISION OF TRANSPORTATION
GRAF ROAD BRIDGE OVER
WEST BRANCH PISCASAW CREEK

EXISTING TYPICAL SECTIONS

SCALE: NONE

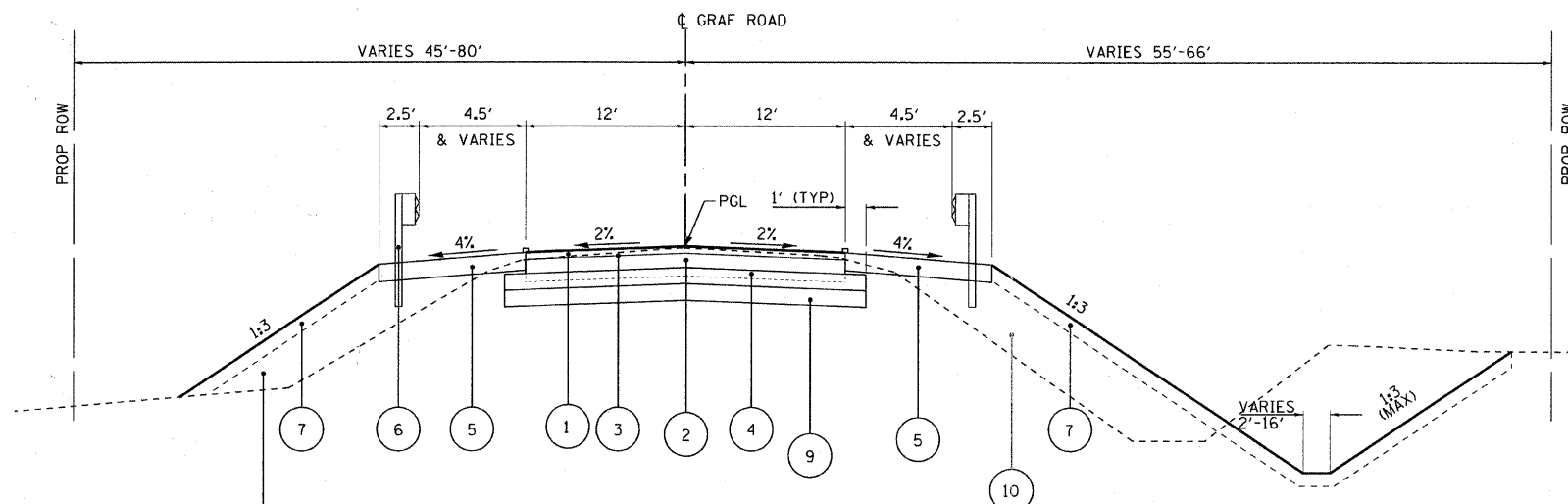
STA. TO STA.

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0037	06-00322-01-BR	MCHENRY	52	6
C-91-258-11		CONTRACT NO. 63580		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT BROS-01110640		



PROPOSED TYPICAL SECTION GRAF ROAD

STA. 400+60 TO STA. 401+94
STA. 407+76 TO STA. 410+10



PROPOSED TYPICAL SECTION GRAF ROAD

STA. 401+94 TO STA. 407+76
BRIDGE OMISSION STA 404+60.29 TO STA 405+47.79

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE (VARIES 3 1/2" TO 4 1/4")
- (B) AGGREGATE SUBBASE (VARIES 10 1/2" TO 10 3/4")
- (C) HOT-MIX ASPHALT SHOULDERS
- (D) AGGREGATE SHOULDERS
- (E) EXISTING GROUND
- [Hatched Box] PAVEMENT REMOVAL
- [Dotted Box] SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50-2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50-4"
- (3) BITUMINOUS MATERIALS (PRIME COAT)
- (4) AGGREGATE SUBGRADE 12"
- (5) HOT-MIX ASPHALT SHOULDERS, 6"
- (6) PROPOSED STEEL PLATE BEAM GUARDRAIL
- (7) TOPSOIL FURNISH AND PLACE, 6"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- (8) AGGREGATE SHOULDERS, TYPE B-6"
- (9) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
•• POROUS GRANULAR EMBANKMENT, SUBGRADE
- (10) EMBANKMENT

NOTES:

- POROUS GRANULAR EMBANKMENT, SUBGRADE HAS BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY USE OF CONE PENETROMETER OR PROOFROLLING. IF UNSTABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. THE REMOVAL AND REPLACEMENT AREA SHALL EXTEND TO 12 INCHES BEYOND THE SHOULDER AND COME UP AT A 1:1 SLOPE TO EXISTING GROUND SURFACE. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL." ANY PGES AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR GROUND STABILIZATION NOT NEEDED AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT.
- SEE PROPOSED TYPICAL SECTION NOTES SHEET FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE AND STRUCTURAL DESIGN DATA TABLE.

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 EXPIRES 8/24/2011
 PROJECT NO. 06-00322-01-BR
 SHEET NO. 52 OF 77



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MCHENRY COUNTY DIVISION OF TRANSPORTATION
GRAF ROAD BRIDGE OVER
WEST BRANCH PISCASAW CREEK

PROPOSED TYPICAL SECTIONS

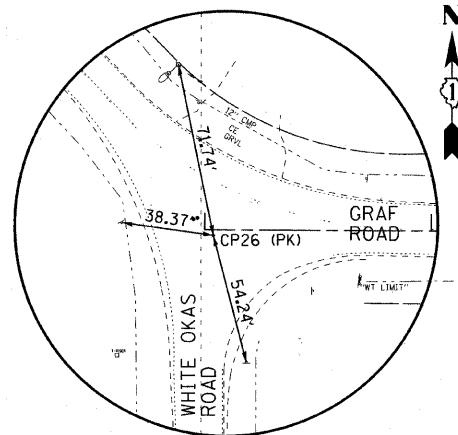
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STA. TO STA.

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C-91-258-11				CONTRACT NO. 63580
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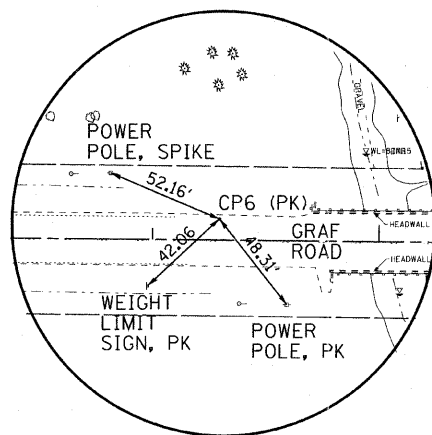
EARTHWORK SCHEDULE

STATION	AREA BY STATION			VOLUMES, IN CUBIC YARDS			UNDERCUT AND PGE (CU YD)	UNSUITABLE STRUCTURE EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	UTILITY EXCAVATION (CU YD)	SUITABLE STRUCTURE EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EARTH EXCAVATION TO BE USED IN EMBANKMENT (CU YD)	EMBANKMENT (CU YD)
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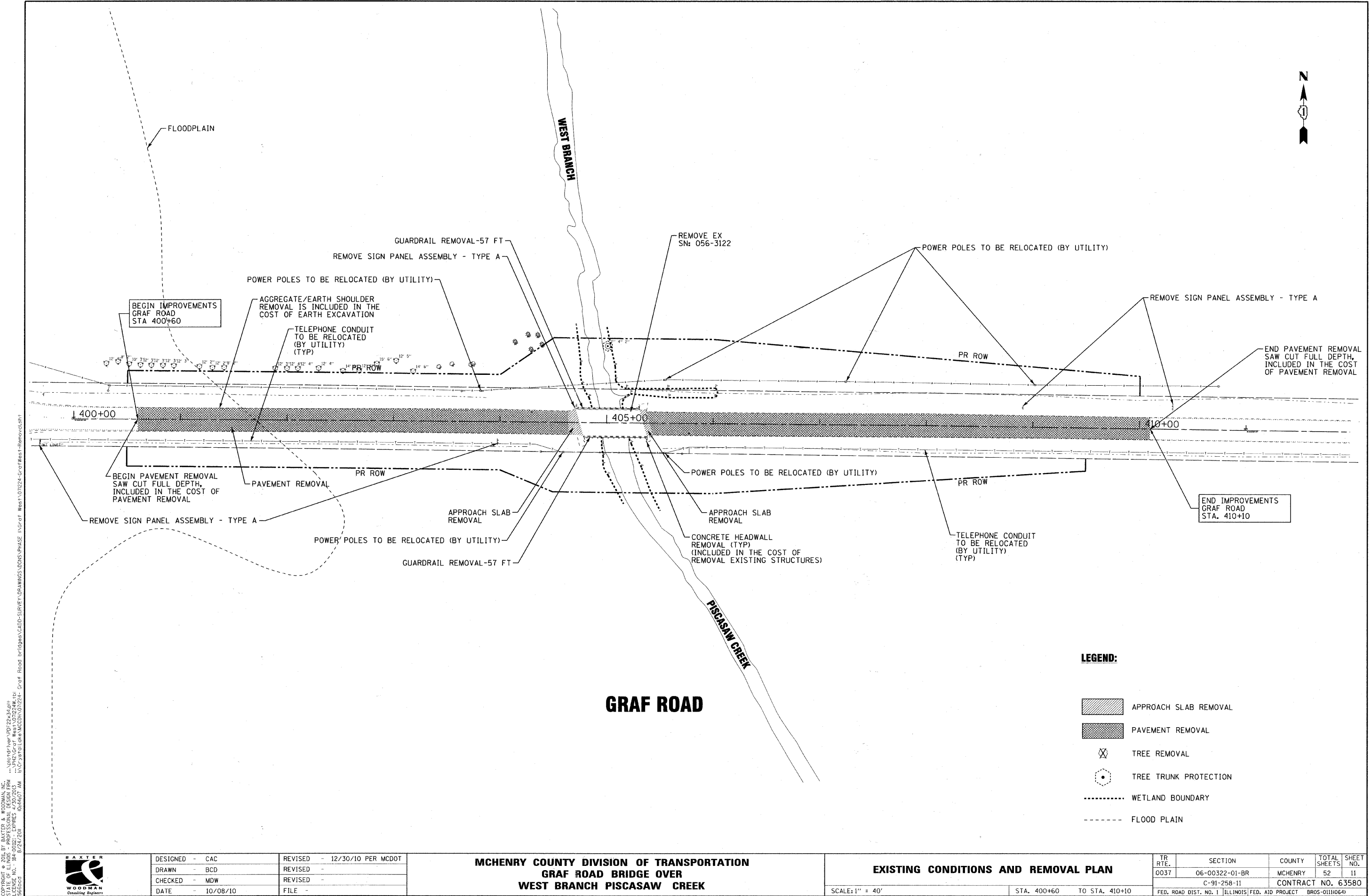
TIE-POINT

CP #26 STA 399+01.70
GRAF ROAD
N 2104612.346, E 891353.632



TIE-POINT

CP #6 STA 404+29.43
GRAF ROAD
N 2033128.937, E 891



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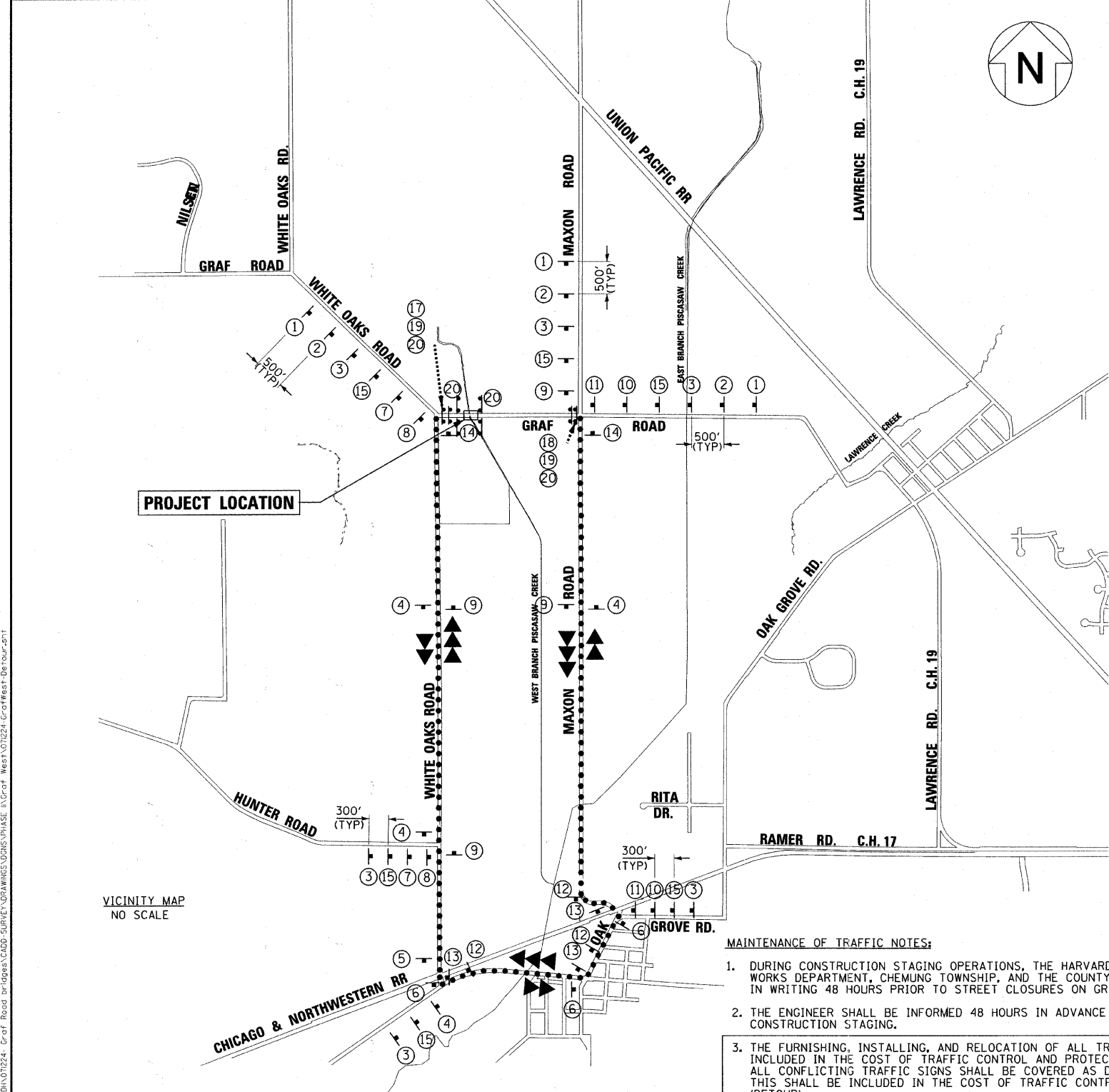
MCHENRY COUNTY DIVISION OF TRANSPORTATION
GRAF ROAD BRIDGE OVER
WEST BRANCH PISCASAW CREEK

EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: 1" = 40'

STA. 400+60 TO STA. 410+10

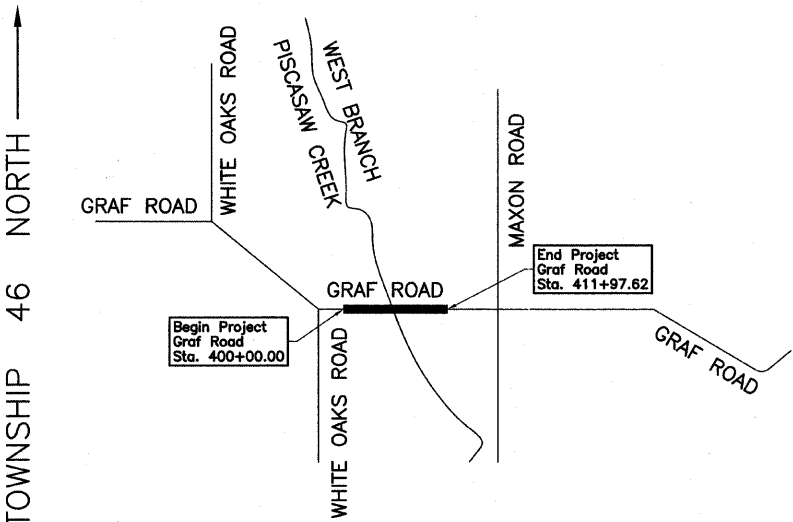
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0037	06-00322-01-BR	MCHENRY	52	11
C-91-258-11 CONTRACT NO. 63580				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BROS-01110641				

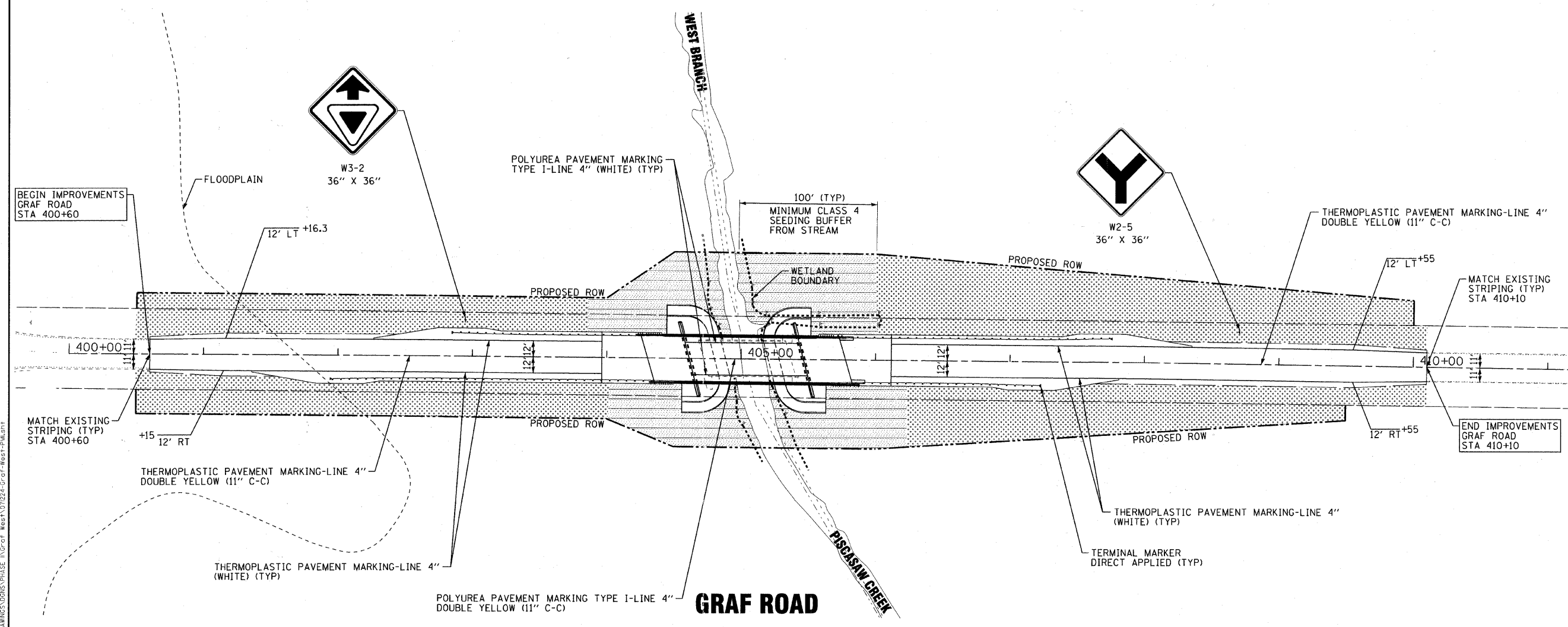


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLANS
FOR PROPOSED
FEDERAL AID HIGHWAY

ROUTE: T.R. 37 (GRAF ROAD)
SECTION: 06-00322-01-BR
PROJECT NO.:
JOB NO.: R-55-001-97
COUNTY: McHENRY
LIMITS: @ WEST BRANCH PISCASAW CREEK

← RANGE 5 EAST →





GENERAL NOTES

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

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

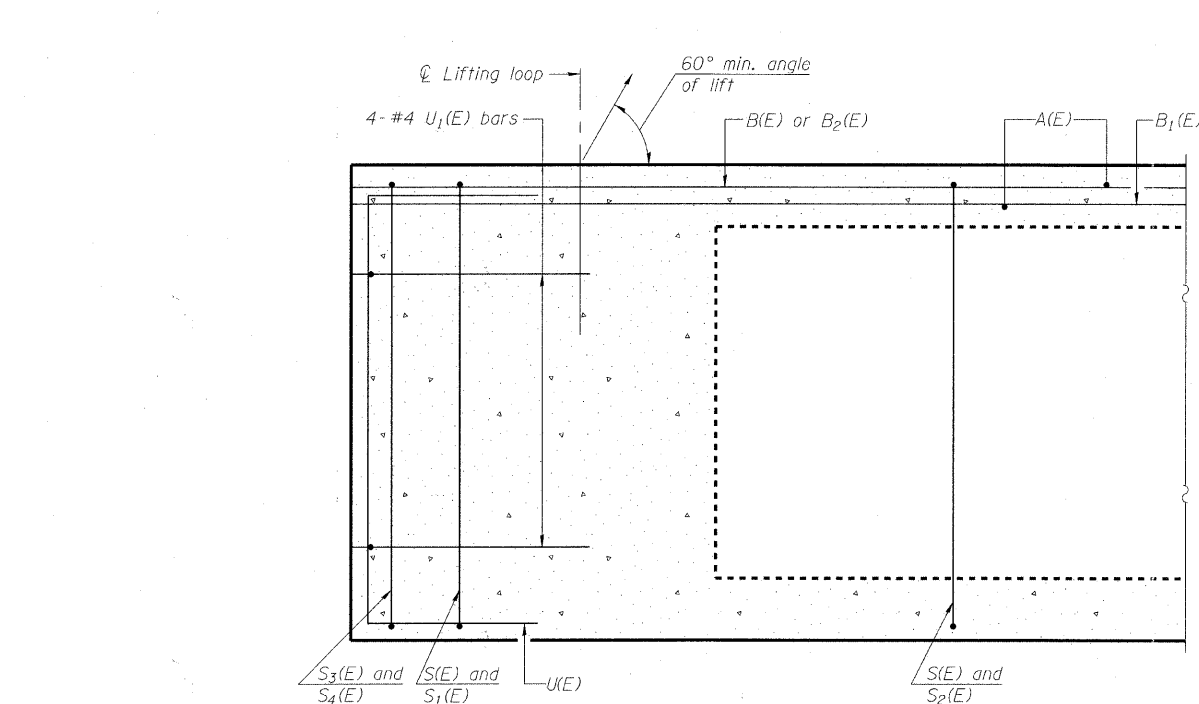
Place reinforcement bars to provide 2 inch clear cover, unless noted otherwise.

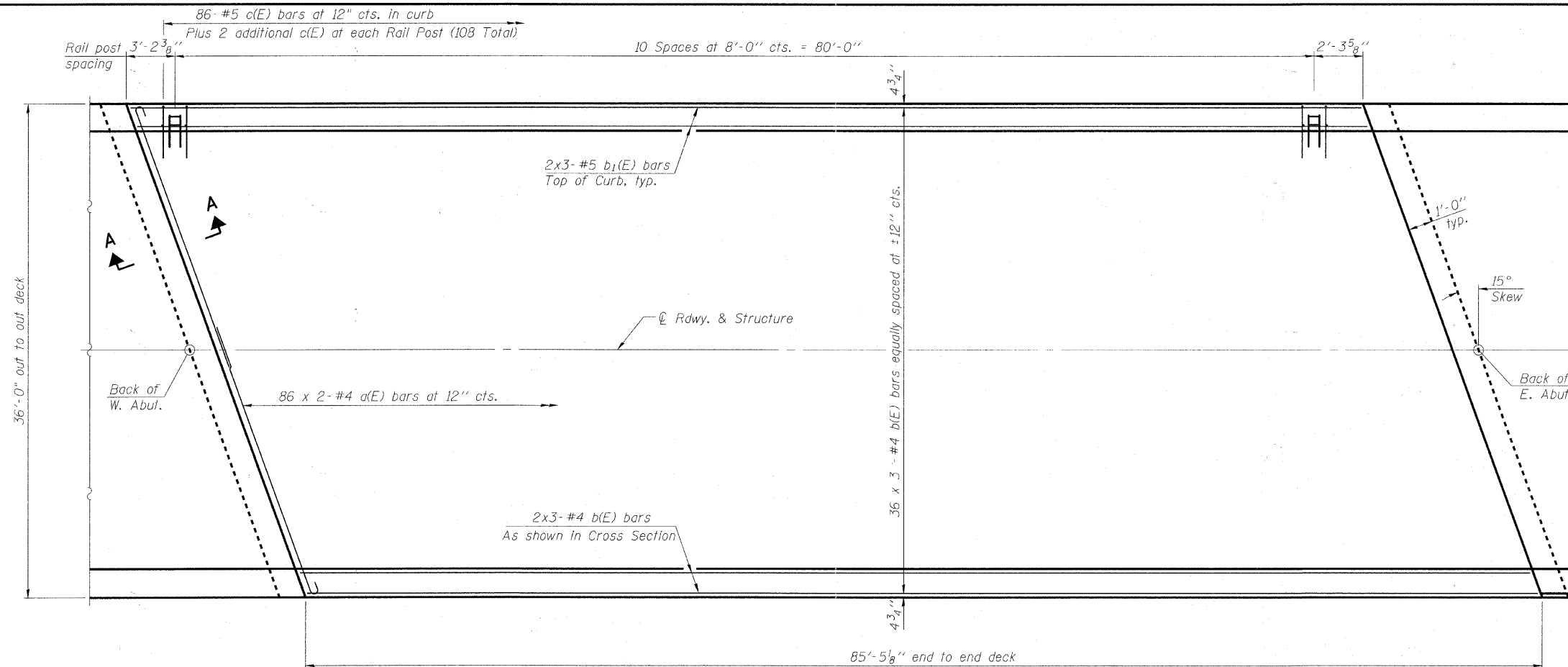
The Contractor is advised that the existing structure contains members that are in deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for removal.

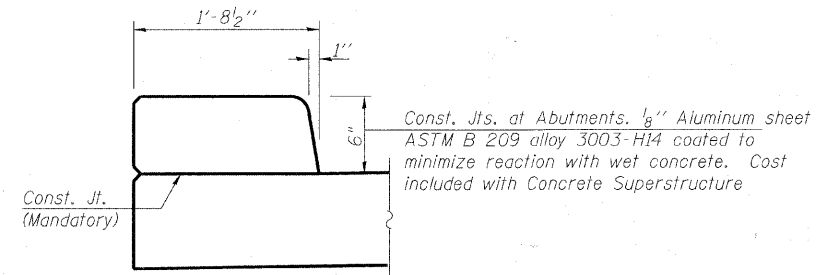
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		118	118
Stone Rip				

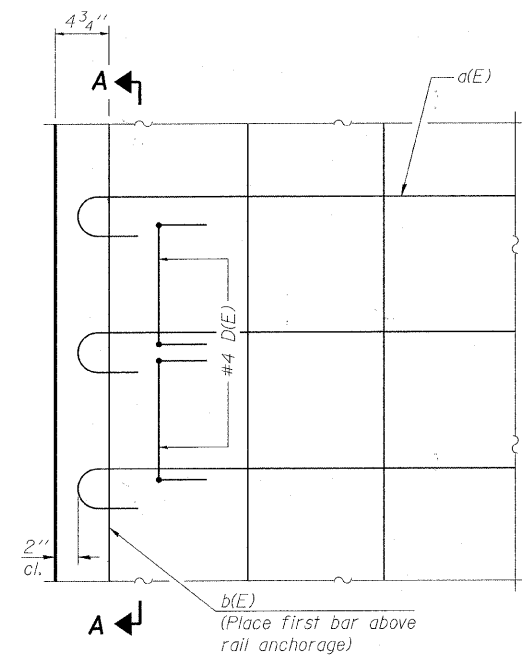
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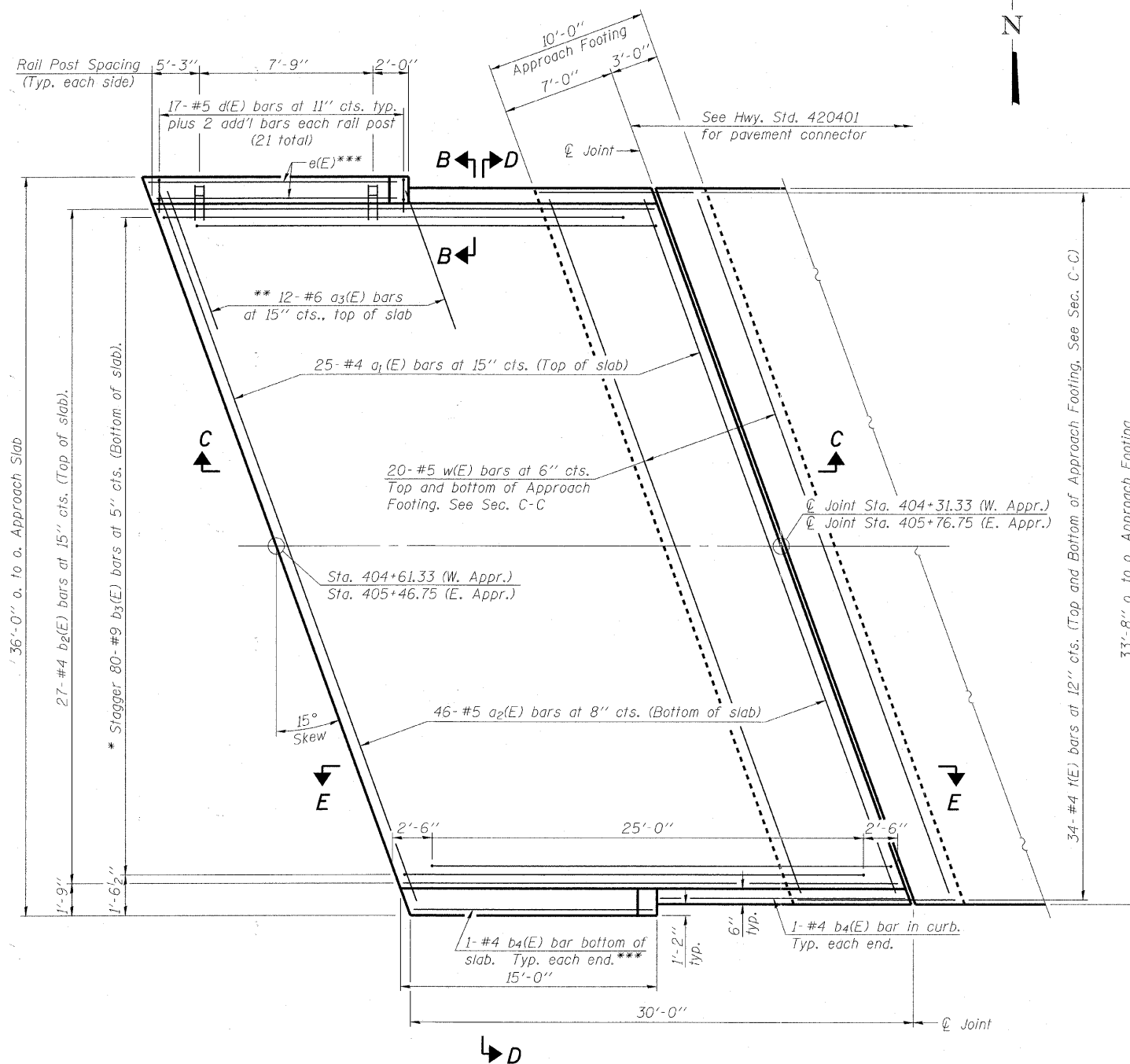
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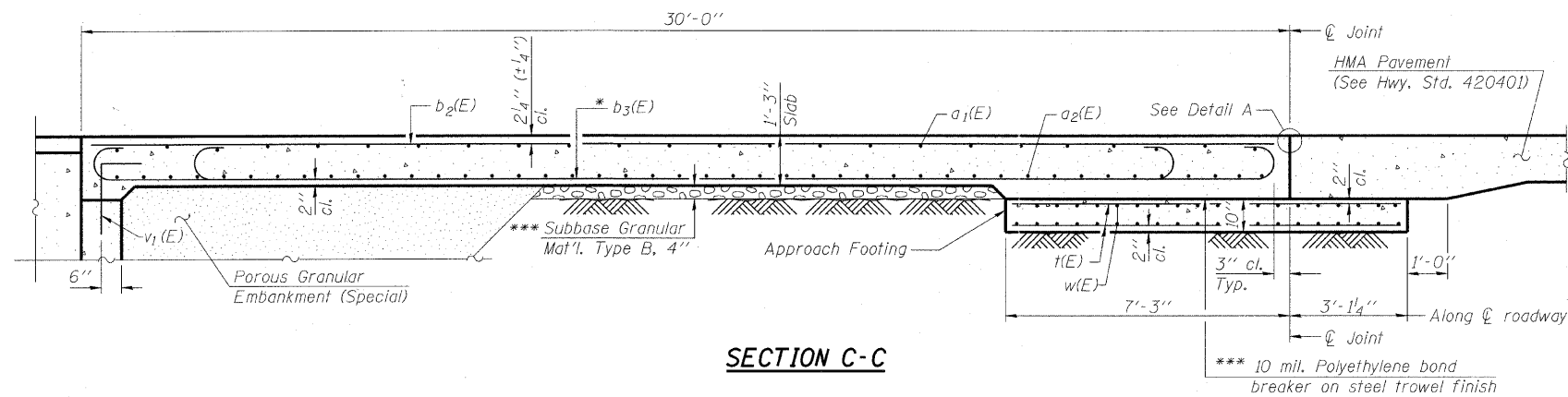


PLAN

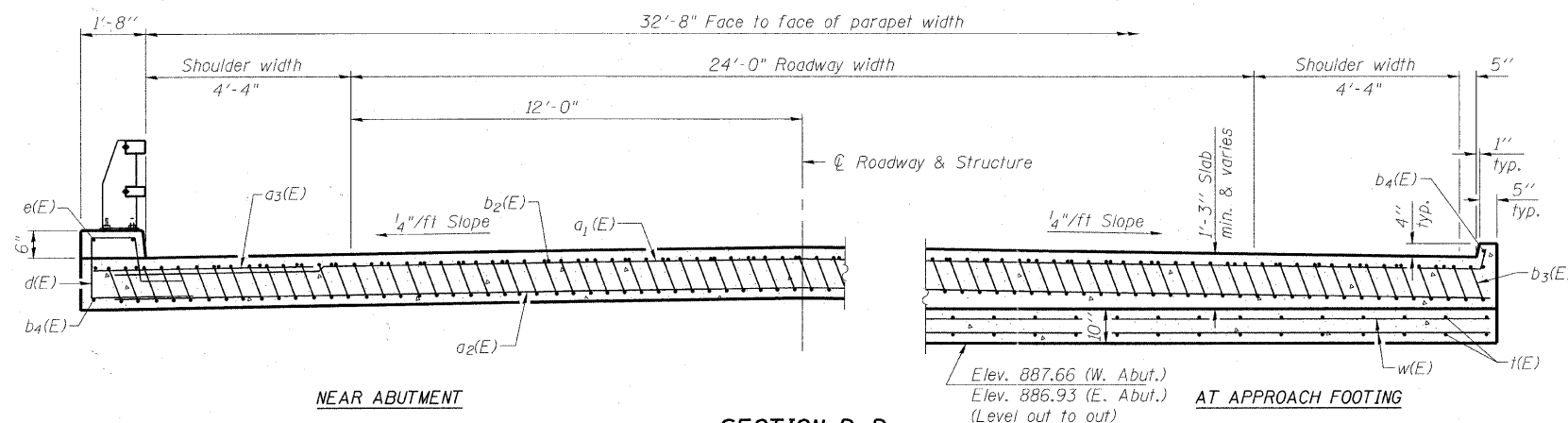
Notes:
Formwork necessary for the wearing surface

Notes:
See sheet 8 of 19 for Sections C-C & D-D and View E-E.
 $a_1(E)$ and $a_2(E)$ bar spacings measured along ϕ Rdwy.





SECTION C-C



NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Aprpr. Slab	404+26.95	-16.33	889.85
A1	404+36.95	-16.33	889.81
A2	404+46.95	-16.33	889.77
E. End W. Aprpr. Slab	404+56.95	-16.33	889.72

NORTH EDGE OF PAVEMENT

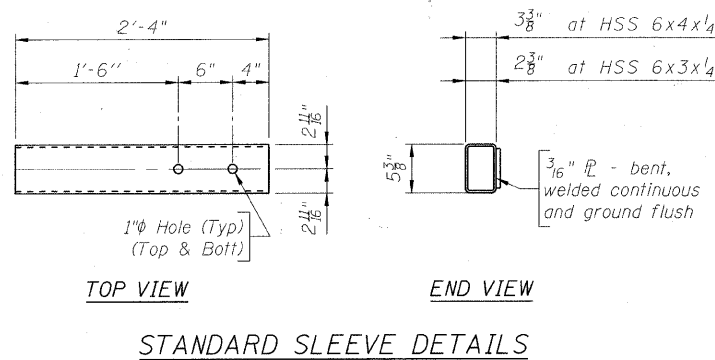
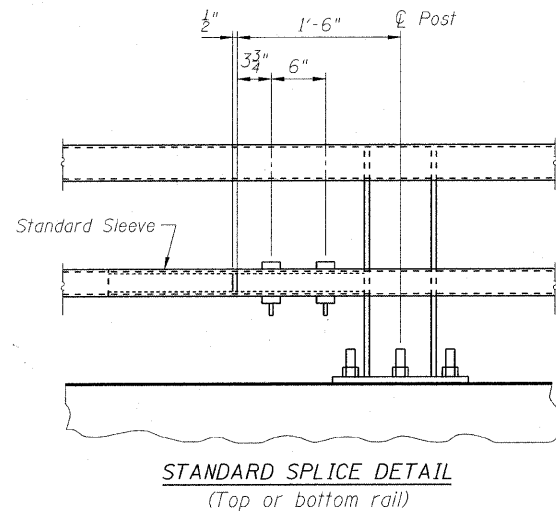
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Aprpr. Slab	404+28.11		

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Apr. Slab	405+42.37	-16.33	889.30
A3	405+52.37	-16.33	889.25
A4	405+62.37	-16.33	889.20
E. End E. Apr. Slab	405+72.37	-16.33	889.15

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Apr. Slab	40		



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	CHECKED - BAB	REVISED -
PLOT SCALE =	DRAWN - BCD	REVISED -
PLOT DATE =		

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19459 BORING LOG 2
Client Baxter & Woodman, Inc. Sheet 1 of 4
Project Graf Rd. over Piscasaw Creek Date 9/9/08
Location McHenry County, IL Drilled By AC
Equipment ☒ CME 45B ☐ H.A. ☐ Other Logged By DA

Elev. ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
888.6'	Bituminous concrete - 4.25"											
	Base - brown sand & gravel, damp, loose						5					
							4	</				

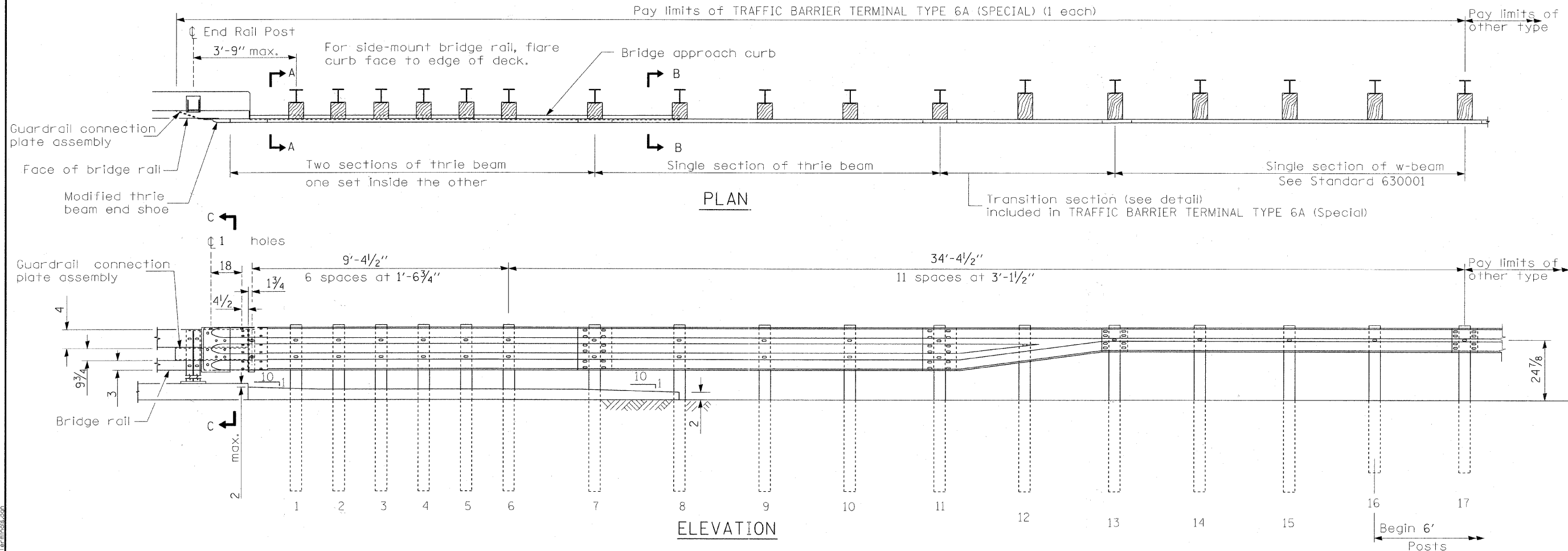
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FAX: 312.467.1001



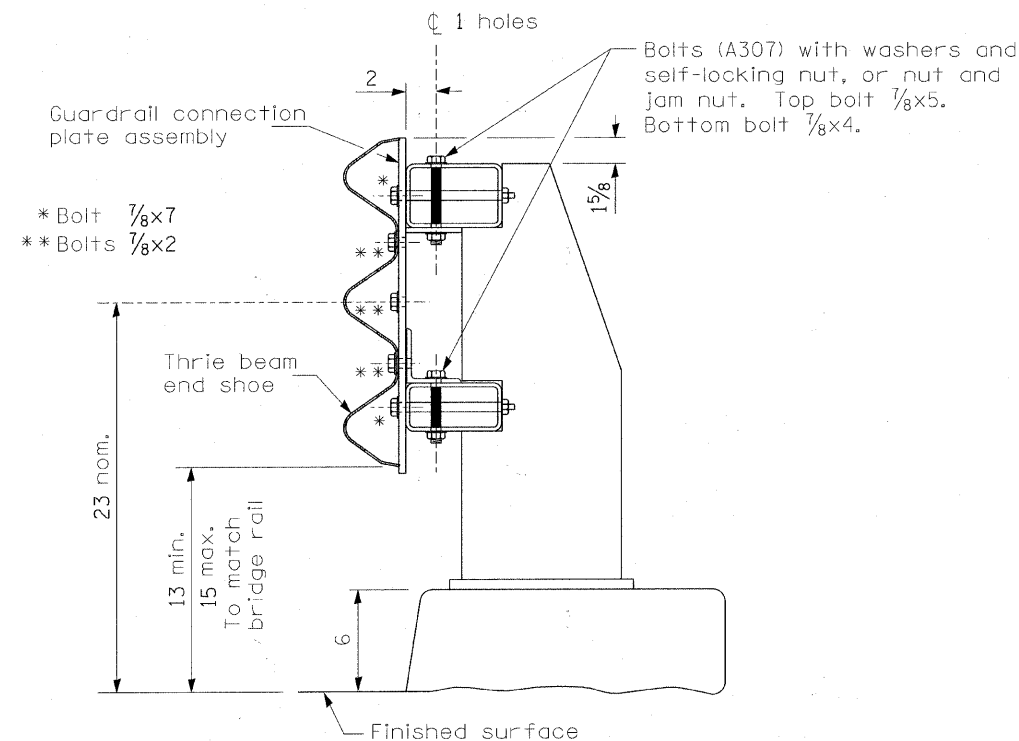
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PLOT DATE :

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DATE - 10/08/10

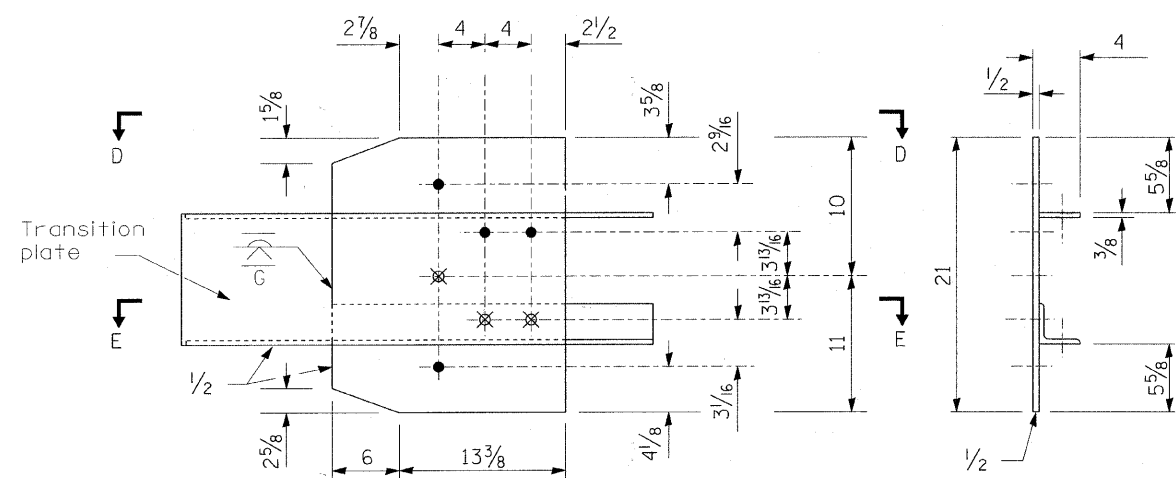
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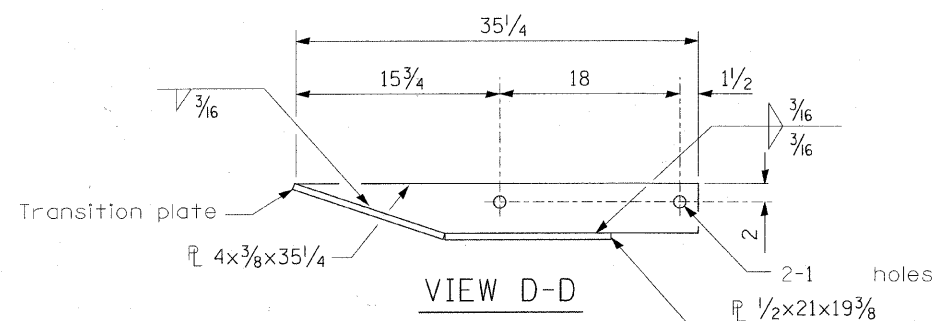
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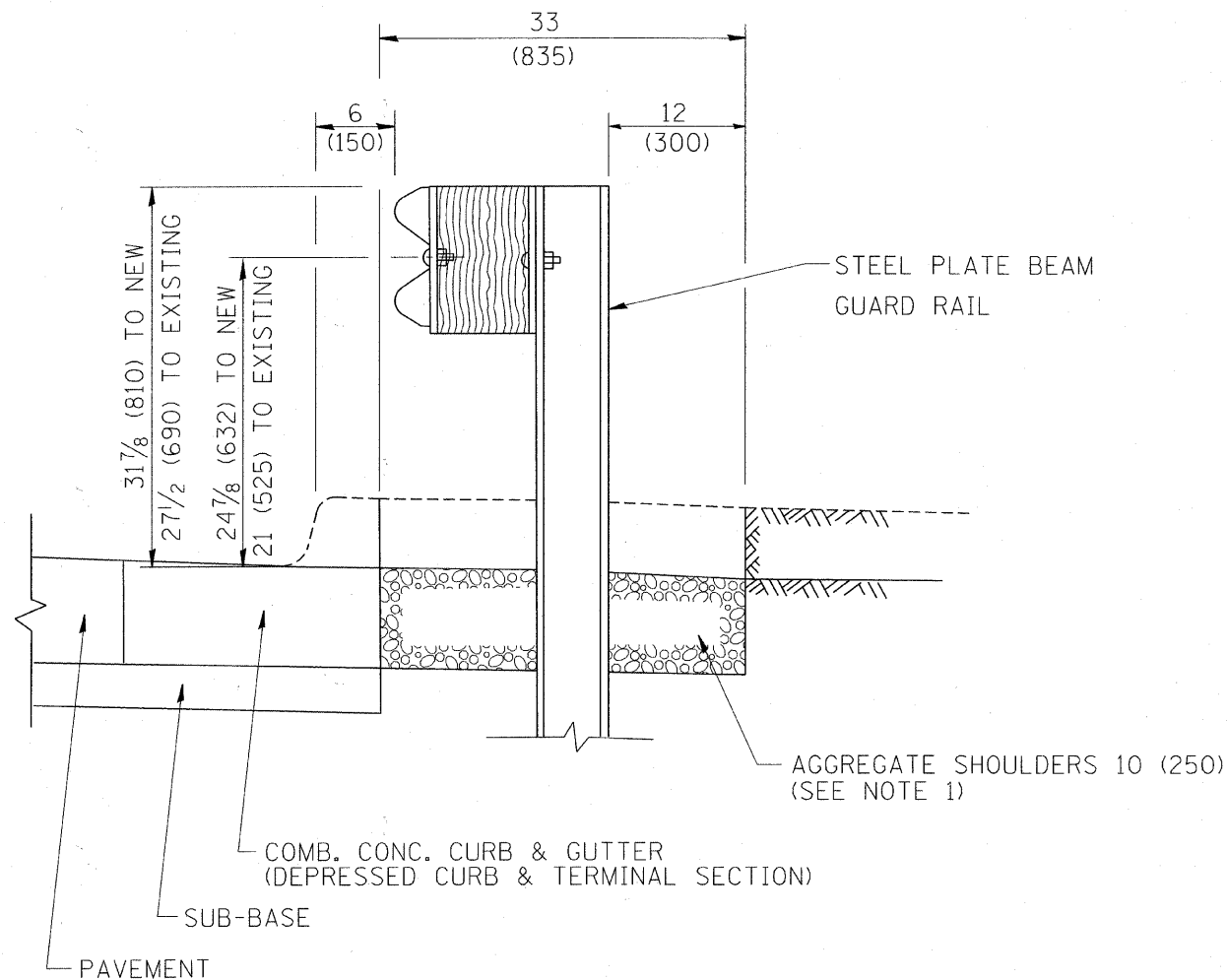


MCHENRY COUNTY
DIVISION OF TRANSPORTATION



GUARDRAIL CONNECTION PLATE ASSEMBLY DETAILS
(Mirror for opposite end)





SECTION A-A

