

DEPARTMENT OF TRANSPORTATION

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	1
FEDERAL AID PROJECT ILLINOIS		CONTRACT NO. 97552		

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, UTILITIES, COMMITMENTS, & ALIGNMENT TIE POINTS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS
7-8	SCHEDULE OF QUANTITIES
9	PLAN & PROFILE SHEET
10	TRAFFIC CONTROL PLAN SHEET
11	EROSION CONTROL & PAVEMENT MARKING SHEET
12	DRAINAGE PLAN & PROFILE SHEET
13	WATER LINE PLAN & PROFILE SHEET
14	RIGHT OF WAY PLAN SHEET
15	REMOVAL PLAN SHEET
16	INTERSECTION DETAILS
17-22	STRUCTURE PLANS & SOIL BORINGS
23-25	CONSTRUCTION DETAILS
26-32	CROSS SECTIONS

PLANS FOR PROPOSED

SUMMIT AVENUE BRIDGE REPLACEMENT

FAU ROUTE 9133

SECTION: 11-00095-00-BR

PROJECT: M5011 (348)

JOB NO.: C-98-369-11

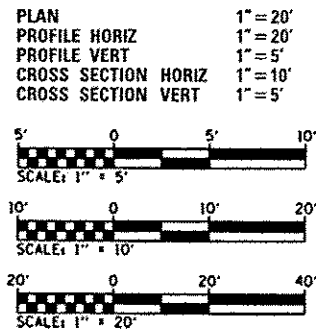
CITY OF COLLINSVILLE

MADISON COUNTY

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602406-06	MANHOLE TYPE A 6' (1.8 m) DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604011-04	FRAME AND GRATE TYPE 3V
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE TYPE 24
606001-05	CONC CURB TYPE B AND COMB CONC CURB AND GUTTER
606401-01	PAVED DITCH
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
BLR22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

SCALE IN FEET



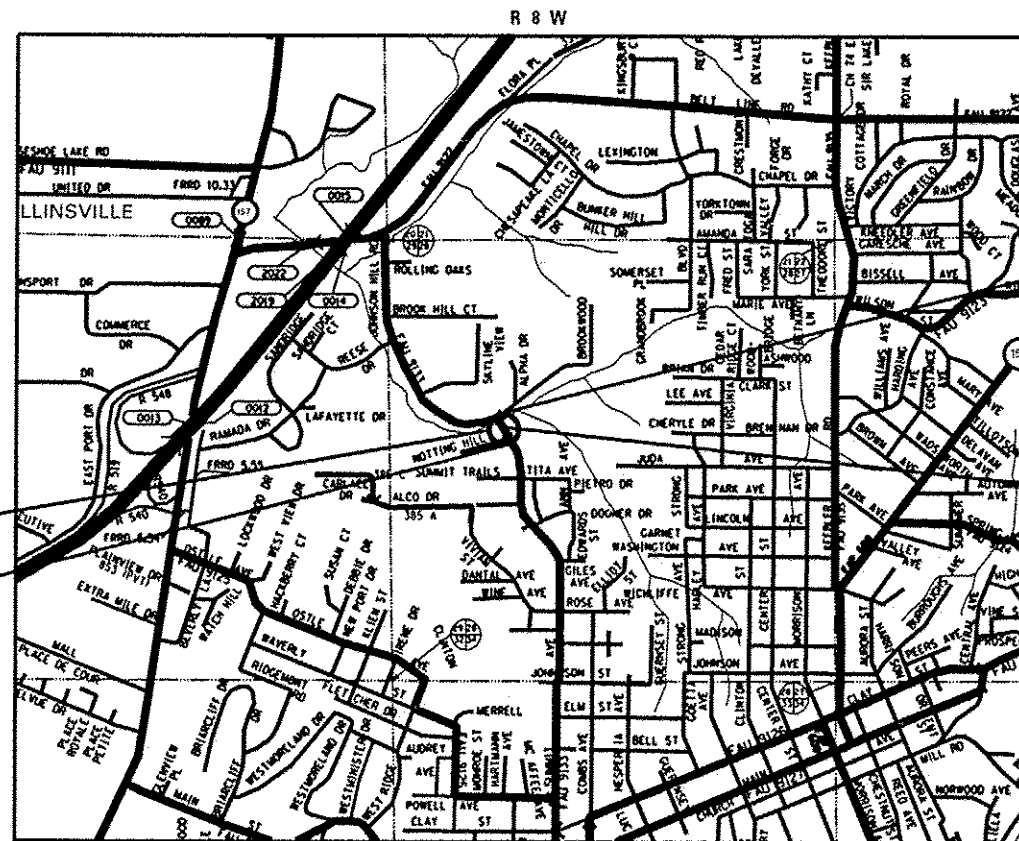
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DESIGN DESIGNATION

ROADWAY CLASSIFICATION = MINOR ARTERIAL
DESIGN SPEED = 30 MPH
CURRENT ADT (2013) = 3,800
DESIGN YEAR ADT (2033) = 4,600

GROSS LENGTH OF RECONSTRUCTION: 338' (0.064 MILES)
NET LENGTH OF RECONSTRUCTION: 338' (0.064 MILES)

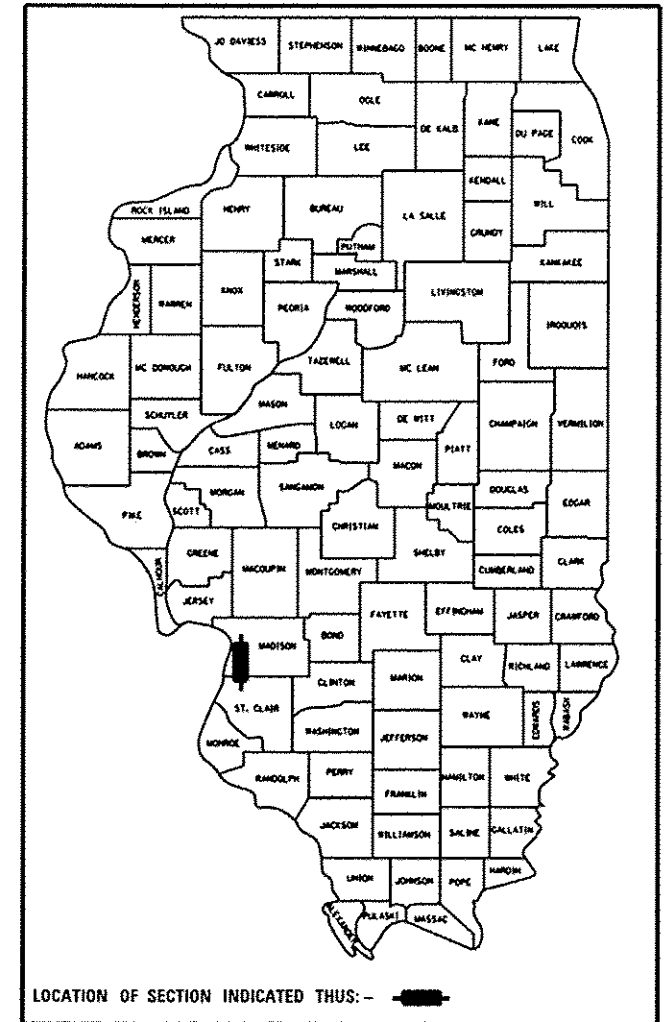


LOCATION MAP



END PROJECT
STA 44+03

PROJECT INCLUDES A
3-SIDED PRECAST
CONCRETE BOX CULVERT
EXIST. S. N. 060-6300
PROP. S.N. 060-6308



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	2-13-14 DATE
JOHN MILLER MAYOR OF COLLINSVILLE	
PASSED	3-26-14 DATE
DISTRICT 8 PROJECT IMPLEMENTATION ENGINEER	
RELEASING FOR BID BASED ON LIMITED REVIEW	3-26-14 DATE
DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER	

COLLINSVILLE 100 Lanter Court, Suite 1
Collinsville, IL 62234
tel 618.345.2200

BELLEVILLE 20 E. Main Street
Belleville, IL 62220
tel 618.416.4688

ST. LOUIS 720 Olive, Suite 1680
St. Louis, MO 63101
tel 314.588.8391

www.oatesassociates.com
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

PHILIP A. MURPHY
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 11/30/2015



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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. ILLINOIS LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE J.U.L.I.E. SYSTEM AT 800-892-0123 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E MEMBERS MUST BE NOTIFIED INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.
2. ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 1.5 FEET CLEARANCE, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
3. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E., UNLESS NOTED OTHERWISE.

ATT (LOCAL) (TELEPHONE)
2501 NORTH CENTER STREET
MARYVILLE, IL 62062
(618) 346-6426

ATT (LONG DISTANCE) (TELEPHONE)
866 ROCK CREEK ROAD
PLANO, IL 60545
(630) 552-9785

CHARTER COMMUNICATIONS (COMMUNICATIONS)
210 WEST DIVISION STREET
MARYVILLE, IL 62062
(618) 345-8121

CITY OF COLLINSVILLE (WATER & SANITARY SEWER)
125 SOUTH CENTER STREET
COLLINSVILLE, IL 62234
(618) 344-5200

AMEREN IP (GAS & ELECTRIC)
2600 NORTH CENTER
MARYVILLE, IL 62062
(618) 346-1287

4. THE ABOVE INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE LOCAL AGENCY AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER FOR APPROVAL OF ALL TEMPORARY MAILBOX LOCATIONS. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
6. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION PLANS AND THE RIGHT OF WAY PLANS, THE RIGHT OF WAY PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING RIGHT OF WAY AND EASEMENTS. THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING CONSTRUCTION ITEMS.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
8. THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ADJUTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT AS SPECIFIED IN THE CONTRACT. THE COST OF ALL OTHER MATERIALS REQUIRED AND ALL OTHER LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
9. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL FERTILIZE AND SEED/SOD ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND SODDING WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND SODDING OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
11. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS TREE REMOVAL ITEMS INCLUDED IN THE CONTRACT.

12. IF ASH TREES ARE TO BE REMOVED FROM THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. IDOA INFORMATION REGARDING ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
13. AT VARIOUS LOCATIONS, IT MAY BE NECESSARY TO TRANSITION PROPOSED COMBINATION CONCRETE CURB AND GUTTER TO MEET EXISTING CURBS OR GUTTERS. THE MINIMUM LENGTH OF TRANSITIONAL COMBINATION CURB AND GUTTER SHALL BE 10 FEET, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
14. STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. STORM SEWER WILL BE MEASURED AND PAID FOR AS SPECIFIED IN ARTICLES 550.09 AND 550.10 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." FLARED END SECTIONS ARE LOCATED BY STATION, OFFSET AND FLOWLINE ELEVATION AT THE FLARED END OF THE FLARED END SECTION.
15. THE OFFSETS TO ALL INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN CALCULATING THESE DIMENSIONS.
16. ALL TYPE 3 FRAMES AND GRATES SHALL BE FURNISHED BY THE CONTRACTOR WITH TYPE 3V GRATES AND OPEN CURB BOXES. SEE HIGHWAY STANDARD 604011 AND THE SPECIAL PROVISIONS FOR DETAILS.
17. THE CONTRACTOR SHALL INCLUDE THE COST OF MAKING CONNECTIONS TO EXISTING DRAINAGE STRUCTURES IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER ITEMS INVOLVED.
18. ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURE ITEMS INCLUDED IN THE CONTRACT.
19. THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CROSSWALKS AND STOP BARS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.
20. A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING TIMES THE NUMBER OF REQUIRED APPLICATIONS HAS BEEN INCLUDED IN THE PLANS. ONLY THE FINAL APPLICATION OF TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND SEPARATE PAYMENT WILL BE MADE FOR WORK ZONE PAVEMENT MARKING REMOVAL.
21. THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

AGGREGATE FOR TEMPORARY ACCESS 100 TON
ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS 50 FOOT

22. THE FOLLOWING SYMBOLS, ABBREVIATIONS AND PATTERNS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

- BO BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
- CONSTR CONSTRUCTION
- CP CONTROL POINT
- ESMT EASEMENT
- K LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
- N/F NOW OR FORMERLY
- O/C OIL AND CHIP
- PERM PERMANENT
- PVI POINT OF VERTICAL INTERSECTION
- PVC POLYVINYL CHLORIDE PIPE
- TCE TEMPORARY CONSTRUCTION EASEMENT
- TUP TEMPORARY USE PERMIT
- TBA TO BE ADJUSTED
- TBR TO BE RELOCATED
- TYP TYPICAL
- W WIDTH

 FLARED END SECTION

COMMITMENTS

NONE

ALIGNMENT TIE POINTS

DESCRIPTION:	OFFSET	NORTHING:	EASTING:
P.T. 40+32.56	CL	733,347.62	2,344,696.00
P.O.T. 44+16.01	CL	733,660.93	2,344,474.93

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	465
20700220	POROUS GRANULAR EMBANKMENT	CU YD	146
SP 20800150	TRENCH BACKFILL	CU YD	362
SP 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	645
25100630	EROSION CONTROL BLANKET	SO YD	60
SP 25200100	SODDING	SO YD	585
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	28
28000305	TEMPORARY DITCH CHECKS	FOOT	8
28000400	PERIMETER EROSION BARRIER	FOOT	135
28000500	INLET AND PIPE PROTECTION	EACH	14
SP 28100107	STONE RIPRAP, CLASS A4	SO YD	402
28200200	FILTER FABRIC	SO YD	402
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SO YD	1,549

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SO YD	37
40701891	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"	SO YD	1,247
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	34
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	2,655
SP 42400800	DETECTABLE WARNINGS	SO FT	60
44000100	PAVEMENT REMOVAL	SO YD	1,090
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	134
44000400	GUTTER REMOVAL	FOOT	60
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	90
44000600	SIDEWALK REMOVAL	SO FT	235
44004000	PAVED DITCH REMOVAL	FOOT	122
SP 44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SO YD	45
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1

NOTES: SP SEE PROJECT SPECIFIC SPECIAL PROVISIONS
 • SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
SP 50104400	CONCRETE HEADWALL REMOVAL	EACH	2
SP 50105220	PIPE CULVERT REMOVAL	FOOT	205
50200100	STRUCTURE EXCAVATION	CU YD	605
50300225	CONCRETE STRUCTURES	CU YD	163.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20,100
* 50900805	PEDESTRIAN RAILING	FOOT	111
51201900	FURNISHING STEEL PILES HP14X89	FOOT	644
51202305	DRIVING PILES	FOOT	644
51203900	TEST PILE STEEL HP14X89	EACH	1
51204650	PILE SHOES	EACH	24
51500100	NAME PLATES	EACH	1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
5421D036	PIPE CULVERTS, CLASS D, TYPE 1 36" (TEMPORARY)	FOOT	40
SP 550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	164
SP 550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	25
SP 550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	52
SP 550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	202
* SP 56100600	WATER MAIN 6"	FOOT	420
* SP 56108800	TAPPING VALVES AND SLEEVES 6"	EACH	2
* SP 56300100	ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS	FOOT	50
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	199.5
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
SP 60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	4

NOTES: SP SEE PROJECT SPECIFIC SPECIAL PROVISIONS
* SPECIALTY ITEM

FILE NAME * 0811005-shr-500.dgn	USER NAME * default PLOT TIME * 2:25:56 PM PLOT SCALE * 40.0000' / IN. PLOT DATE * 3/5/2014	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 4
					SCALE: NTS	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 97552 ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
SP 60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	615
60615400	PAVED DITCH, TYPE A-15	FOOT	20
63200310	GUARDRAIL REMOVAL	FOOT	110
67100100	MOBILIZATION	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	616
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	198
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	37
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	477
72000100	SIGN PANEL - TYPE 1	SQ FT	30
72900200	METAL POST - TYPE B	FOOT	56
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	616
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	198

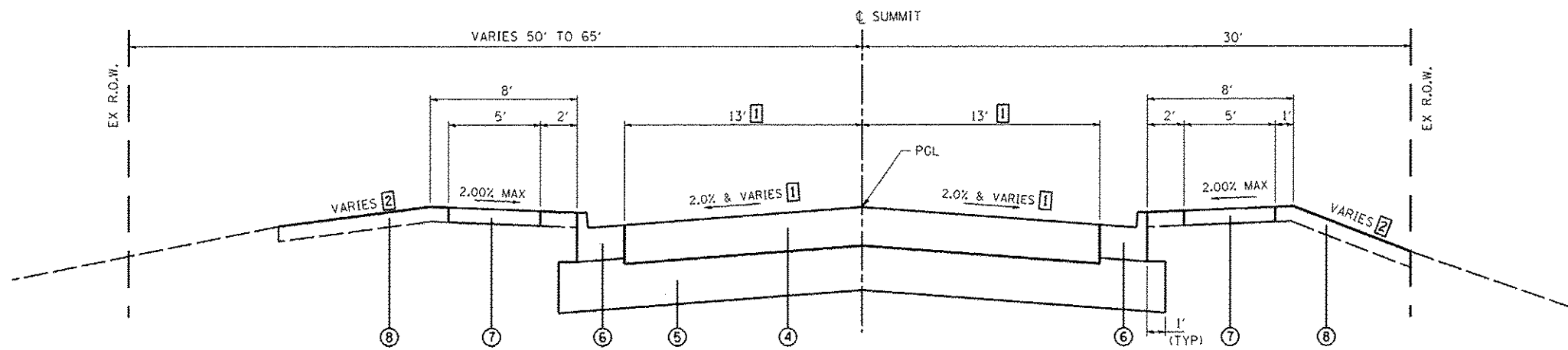
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	37
Z0026407	TEMPORARY SHEET PILING	SQ FT	3,415
Z0038240	THREE-SIDED PRECAST CONCRETE STRUCTURES 24'X 10'	FOOT	50
SP Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	16
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	504
SP X0327037	SPECIAL GRATE NO. 1	EACH	1
SP X2810108	STONE RIPRAP, CLASS A4 (SPECIAL)	SQ YD	32
* SP X5610706	WATER MAIN REMOVAL, 6"	FOOT	340
SP X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* SP XX002982	GATE VALVES, 6"	EACH	1
SP XX004446	SEEDING, CLASS 2 SPECIAL	SQ YD	60

NOTES: SP SEE PROJECT SPECIFIC SPECIAL PROVISIONS
* SPECIALTY ITEM

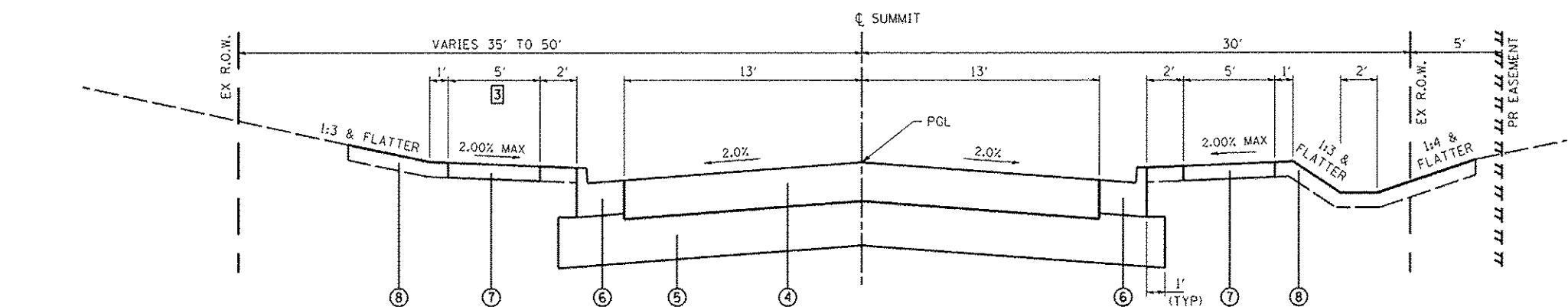
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

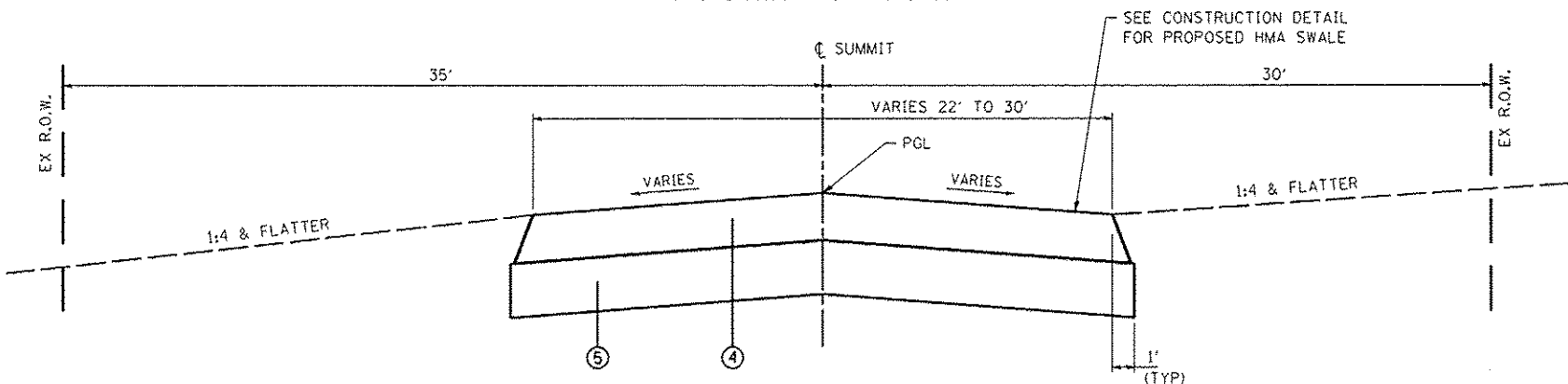
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	PLOT TIME * 8:21:36 AM	DRAWN -	REVISED -				CONTRACT NO. 97552				
	PLOT SCALE * 40,0000 / IN.	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				
	PLOT DATE * 3/18/2014	DATE -	REVISED -								



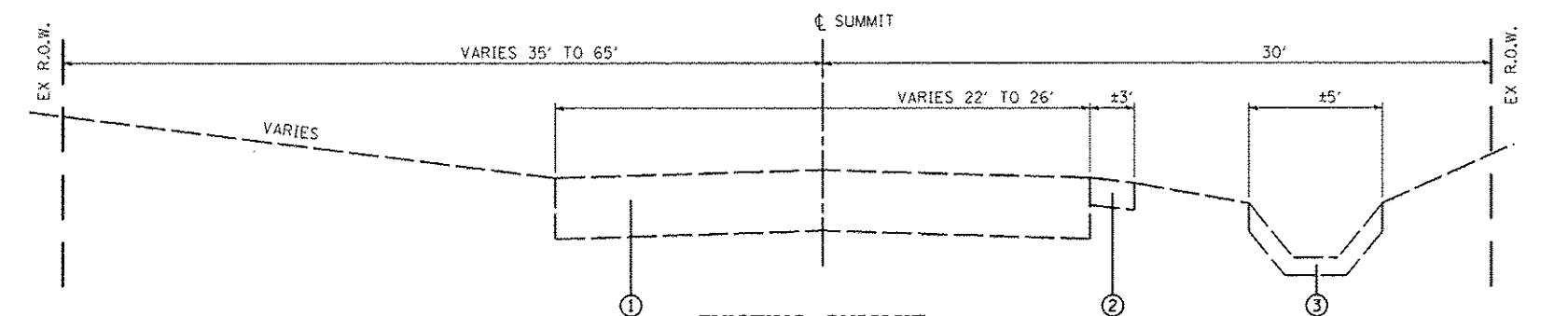
PROPOSED SUMMIT
STA. 42+90.00 TO STA. 44+03.03



PROPOSED SUMMIT
STA. 41+25.00 TO STA. 42+90.00



PROPOSED SUMMIT
STA. 40+65.00 TO STA. 41+25.00



EXISTING SUMMIT

STRUCTURAL DESIGN TRAFFIC:	YEAR:	2023
PV = 3,696	SU = 294	MU = 210
ROAD/STREET CLASSIFICATION:	CLASS: II	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P = 88% S = 7% M = 5%	
TRAFFIC FACTOR:	ACTUAL = 1.14	MIN = N/A
PG GRADE:	BINDER: 64-22	SURFACE: 64-22
STRUCTURAL SUPPORT RATING:	SSR = POOR	

HOT-MIX ASPHALT DESIGN MIX TABLE

MIXTURE USE	SURFACE COURSE (FULL DEPTH)	BINDER COURSE (FULL DEPTH)
THICKNESS	2"	8 1/2" **, 4" **
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-9.5 or IL-12.5	IL-19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "B"
DENSITY TEST METHOD	CORES / NUCLEAR	CORES / NUCLEAR

NOTES:
• ROADWAY
** PRIVATE ENTRANCE

TYPICAL SECTION LEGEND

- ① EXISTING PAVEMENT CONSISTING OF 7" PCC (NOMINAL) WITH 6 1/2" HMA OVERLAY (NOMINAL)
- ② EXISTING AGGREGATE SHOULDER
- ③ EXISTING CONCRETE DITCH
- ④ PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"
- ⑤ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 12"
- ⑥ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑦ PROPOSED PCC SIDEWALK, 4"
- ⑧ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

TYPICAL SECTION NOTES

- ① SEE INTERSECTION DETAILS FOR CROSS SLOPE TRANSITIONS AND VARYING WIDTHS AT INTERSECTION WITH JOHNSON HILL ROAD.
- ② STA. 42+90 TO STA. 43+00 SIDE SLOPE IS 1:3 & FLATTER
STA. 43+00 TO STA. 43+65 SIDE SLOPE VARIES 1:1.5 TO 3:1
STA. 43+65 TO STA. 44+03 SIDE SLOPE IS 1:3 & FLATTER
- ③ SEE CONSTRUCTION DETAILS FOR SIDEWALK WIDTH AND CROSS SLOPE TRANSITIONS FROM STA. 42+61 LT TO STA 42+89 LT.

SEE CROSS SECTIONS FOR VARIABLE DIMENSIONS

EARTHWORK SCHEDULE

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
40+65	43+13	360	270	125	145
43+13	43+49	NOTE 4			
43+49	44+03	90	70	45	25
43+95	44+22	15	10		10
TOTAL		465	350	170	180

EARTHWORK NOTES:

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.
- QUANTITY ACCOUNTED FOR IN STRUCTURE EXCAVATION PAY ITEM.

SEEDING SCHEDULE

STATION	STATION	OFFSET	TOPSOIL F & P 4 (SQ YD)	SODDING (SQ YD)	SEEDING CL 2 SPL (SQ YD)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	EROSION CONTROL BLANKET (SQ YD)	TEMP EROS CONTR SEED (NOTE 2) (POUND)
40+20	43+90	RT	400	400		5	5	5		16
41+10	44+10	LT	185	185		2	2	2		8
42+90	43+80	LT	50		50	1	1	1	50	2
43+55	43+70	RT	10		10	1	1	1	10	2
TOTAL			645	585	60	9	9	9	60	28

SEEDING NOTES:

- FERTILIZER QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE COST FOR FERTILIZER NUTRIENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEEDING, CLASS 2 (SPECIAL) AND SODDING.
FERTILIZER APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
SODDING FERTILIZER 60 LBS/AC
SEEDING FERTILIZER 90 LBS/AC
- TEMPORARY EROSION CONTROL SEEDING QUANTITY ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 LBS/ACRE/APPLICATION.

EROSION CONTROL SCHEDULE

STATION	STATION	OFFSET	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECTION (EACH)	STONE RIPRAP CL A4 (SQ YD)	FILTER FABRIC (SQ YD)	STONE RIPRAP CL A4 SP (SQ YD)
40+40	43+75	RT	8		7	165	165	16
41+20	43+75	LT			7	237	237	16
42+90	43+10	LT		25				
43+00	43+15	RT		20				
43+55	43+80	RT		40				
43+55	44+00	LT		50				
TOTAL			8	135	14	402	402	32

PAVEMENT MARKING SCHEDULE

STATION	STATION	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 12 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	WORK ZONE PAVT MK REM (SQ FT)	THERMO PVT MK LINE 4 (NOTE 1) (FOOT)	THERMO PVT MK LINE 12 (NOTE 1) (FOOT)	THERMO PVT MK LINE 24 (NOTE 1) (FOOT)
SUMMIT								
40+65	43+73	616		22	205	616		
43+73	43+87		110		154		110	22
NOTTING HILL								
41+37	41+89		88	15	118		88	15
TOTAL		616	198	37	477	616	198	37

PAVEMENT MARKING NOTES:

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.

TREE REMOVAL SCHEDULE

STATION	STATION	O/S	TREE REMOV ACRES (ACRE)
41+05	41+25	LT	0.002
43+00	43+80	LT	0.057
43+00	43+57	RT	0.041
TOTAL			0.1

SIGN AND POST SCHEDULE

NO. ON SIGN PLAN	STATION	OFFSET	TYPE	DESCRIPTION	NOMINAL SIZE	SIGN PANEL T1	METAL POST TB	NOTES
					(FT x FT)	(SQ FT)	(FOOT)	
1	41+42	LT	RI-1 & D3-1	STOP & STREET NAME				RELOCATE EX STOP SIGN & STREET NAME SIGNS (INCLUDED WITH EARTH EXC)
2	43+15	LT	R2-1	SPEED LIMIT 25	2 x 2.5	5.0	14	REMOVE EX
3	43+65	RT	RI-1	STOP	2.5 x 2.5	6.3	14	REMOVE EX
	43+65	RT	RI-3P	ALL WAY	1.5 x 0.5	0.8		REMOVE EX "3-WAY" SIGN
4	44+06	LT	RI-1	STOP	2.5 x 2.5	6.3	14	REMOVE EX
	44+06	LT	RI-3P	ALL WAY	1.5 x 0.5	0.8		
5	44+31	RT	RI-1	STOP	2.5 x 2.5	6.3	14	REMOVE EX STOP SIGN & STREET NAME SIGNS
	44+31	RT	RI-3P	ALL WAY	1.5 x 0.5	0.8		
	44+31	RT	D3-1	STREET NAME	2.5 x 0.67	1.7		"Summit Ave"
	44+31	RT	D3-1	STREET NAME	3 x 0.67	2.0		"Johnson Hill Rd"
TOTAL						30.0	56	

SIGN AND POST NOTES:

- EXISTING SIGNS THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CITY OF COLLINSVILLE. THIS WORK SHALL BE INCLUDED IN THE COST OF PROPOSED SIGNS. ALL STREET NAME SIGNS SHALL BE DOUBLE FACED.

PAVEMENT SCHEDULE

STATION	STATION	SUB GRAN MAT A 12	HMA PAVT FD 10 1/2	PAVEMENT REM	CL D PATCH T4 II
		(NOTE 1)		(NOTE 2)	
		(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
SUMMIT					
40+65	41+25	192	178	147	
41+25	44+03	1,186	948	785	
NOTTING HILL					
41+25	42+01	126	121	158	
JOHNSON HILL					
43+95	44+22	45			45
TOTAL		1,549	1,247	1,090	45

PAVEMENT NOTES:

- REDUCED THICKNESS ABOVE STRUCTURE SHALL BE PAID FOR AS SUB GRAN MAT A 12.
- SEE REMOVAL PLAN SHEET FOR OMISSION AT EXISTING STRUCTURE.

ENTRANCE SCHEDULE

STATION	OFFSET	ENTRANCE TYPE	ENTRANCE WIDTH "W"	ENTRANCE DEPTH "D"	EXISTING SURFACE TYPE	HMA PAVT FD 6	PCC DRIVEWAY PAVT 6	DRIVEWAY PAVEMENT REM
(NOTE 1)			(NOTE 1)	(NOTE 1)			(NOTE 2)	
			(FOOT)	(FOOT)		(SQ YD)	(SQ YD)	(SQ YD)
40+94.0	LT	PE	18	16 (NOTE 3)	ASPH	9		15
41+58.5	RT	PE	23	12	ASPH	28	19	70
42+89.0	RT	PE	18	14	CONC		15	49
TOTAL						37	34	134

ENTRANCE NOTES:

- PRIOR TO CONSTRUCTION, THE ENGINEER WILL CONTACT EACH PROPERTY OWNER AND VERIFY THE LOCATION AND WIDTH OF ALL ENTRANCES. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATIONS AND WIDTHS WITH THE ENGINEER PRIOR TO CONSTRUCTION.
- DEPRESSED CURB AND GUTTER THROUGH ENTRANCES SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.
- DEPTH IS MEASURED FROM CL OF ROADWAY INSTEAD OF AS NOTED ON CONSTRUCTION DETAIL SHEET.

CURB & GUTTER SCHEDULE

STATION	STATION	OFFSET	COMB CC&G TB6.24	PAVED DITCH TA-15
			(FOOT)	(FOOT)
40+22	40+42	RT		20
41+25	41+50	LT	45	
41+25	43+90	RT	295	
41+80	44+10	LT	275	
TOTAL			615	20

SIDEWALK SCHEDULE

STATION	STATION	OFFSET	PC CONC SIDEWALK 4	DETECTABLE WARNINGS
			(NOTE 1)	(NOTE 1)
			(SQ FT)	(SQ FT)
41+25	43+88	RT	1,245	12
41+29	41+41	LT	105	18
41+85	44+10	LT	1,305	30
TOTAL			2,655	60

SIDEWALK NOTES:

- SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED ARE REQUIRED. SEE PLAN SHEETS FOR LOCATIONS AND TYPES. SEE HIGHWAY STANDARD 424001 & 424006 FOR SIDEWALK RAMP DETAILS.

PR CURVE SUMMIT
 PI STA. = 39+63.65
 $\Delta = 21^\circ 35' 58''$ (LT)
 $D = 15^\circ 29' 07''$
 $R = 370.00'$
 $L = 70.58'$
 $T = 139.48'$
 $E = 6.67'$
 P.C. STA = 38+93.07
 P.T. STA = 40+32.56

BEGIN PROPOSED IMPROVEMENTS STA 40+65.00

BEGIN PROPOSED TYPICAL SECTION STA 41+25.00

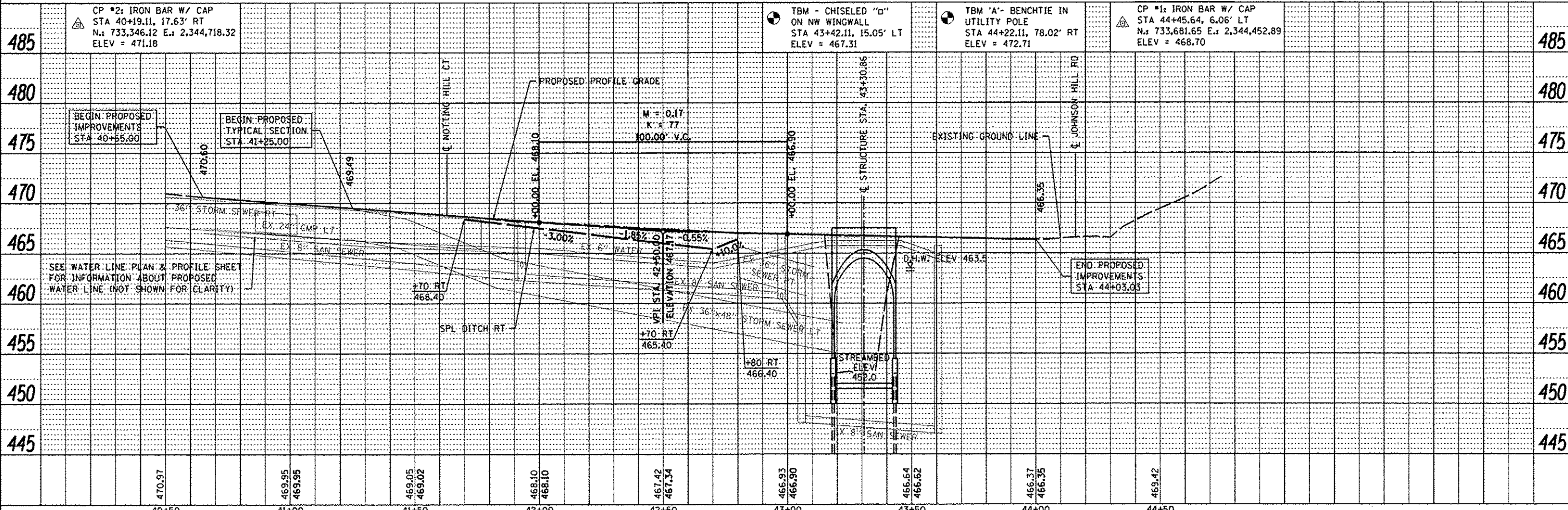
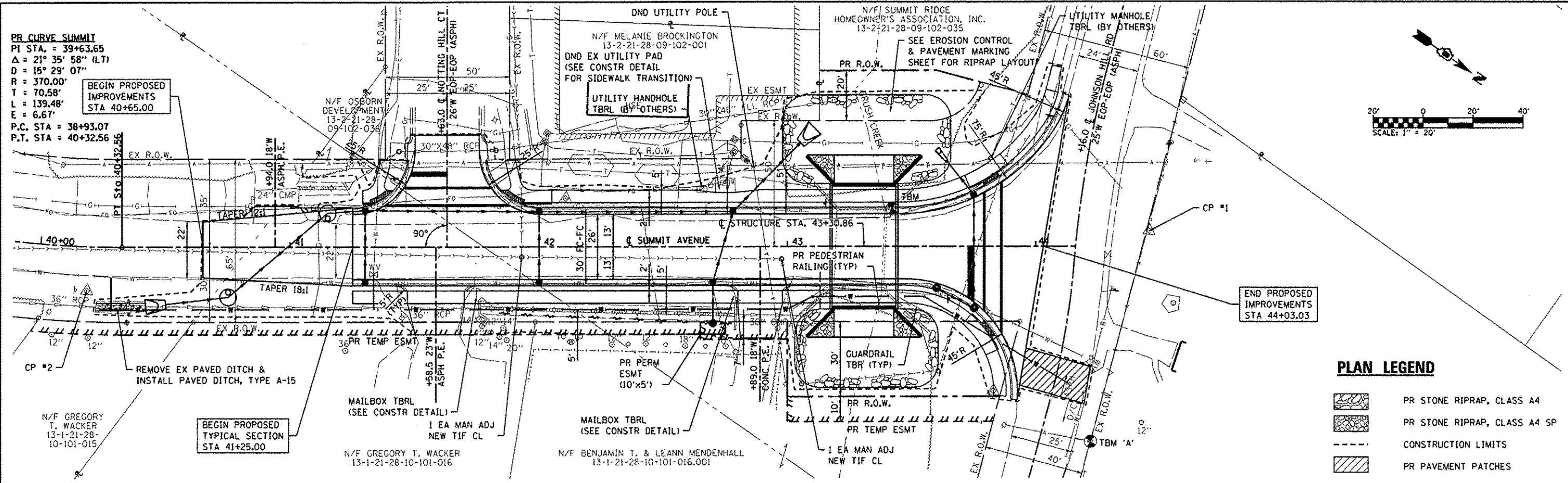
END PROPOSED IMPROVEMENTS STA 44+03.03

PLAN LEGEND

- PR STONE RIPRAP, CLASS A4
- PR STONE RIPRAP, CLASS A4 SP
- CONSTRUCTION LIMITS
- PR PAVEMENT PATCHES

PLAN	NO.	DATE

PROFILE	NO.	DATE



470.97	469.95	469.95	469.05	469.02	468.10	468.10	467.42	467.34	466.93	466.90	466.64	466.62	466.37	466.35	469.42
40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00	44+50							

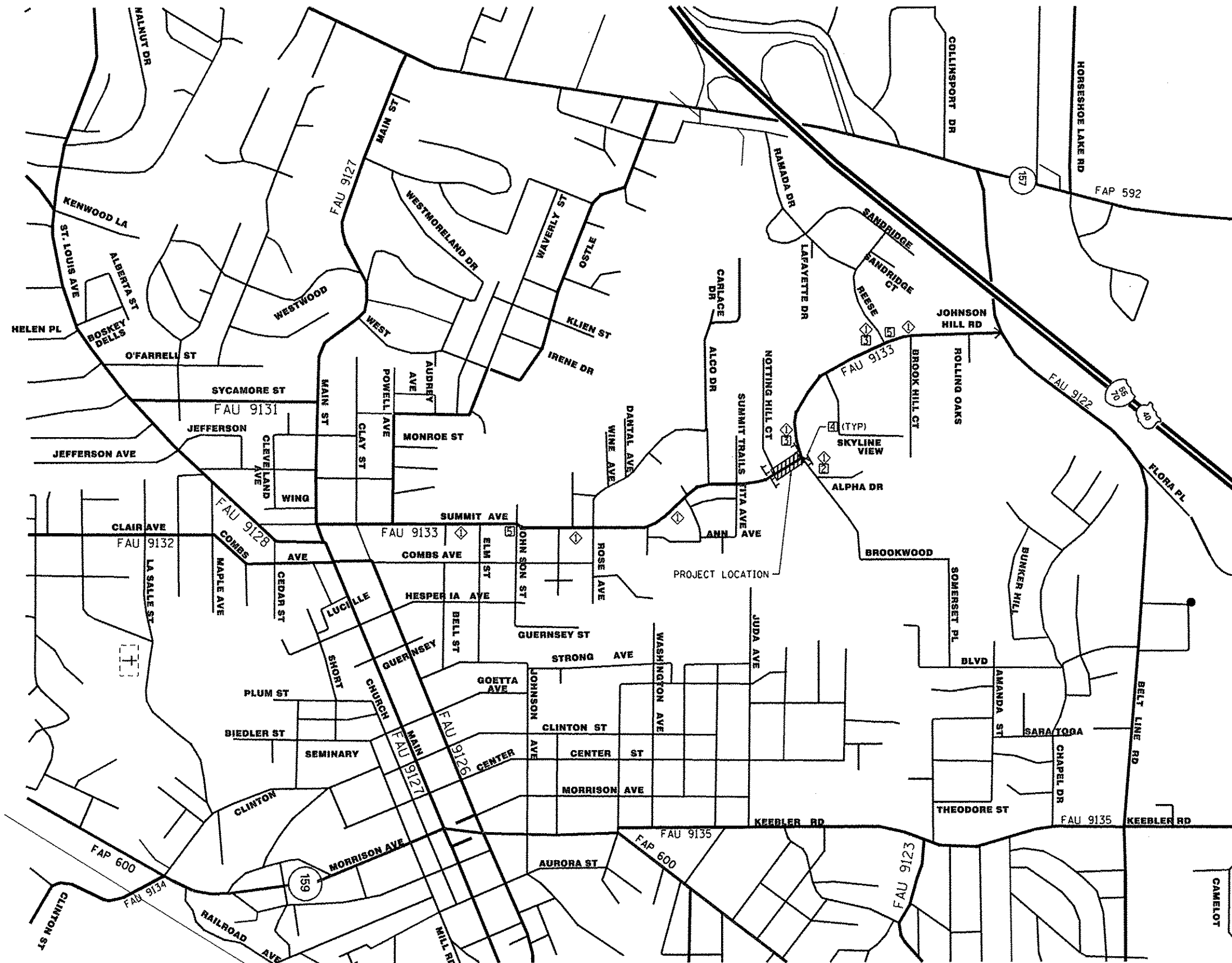
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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET
 SCALE: 1" = 20'
 SHEET 1 OF 1 SHEETS
 STA. 40+00 TO STA. 44+50

F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 9
CONTRACT NO. 97552				
ILLINOIS FED. AID PROJECT				



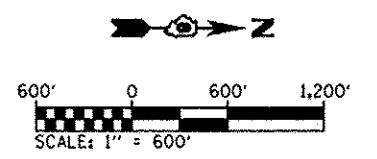
TRAFFIC CONTROL LEGEND

① ROAD CLOSED AHEAD-W20-3(0)-48		48" x 48" FLUORESCENT ORANGE
② 24" x 24"		
③ 24" x 24"		
④ TYPE III BARRICADES, R-11-2-6030 (ROAD CLOSED) SIGNS, AND TYPE A LOW INTENSITY FLASHING LIGHTS		
⑤ CHANGEABLE MESSAGE SIGN "SUMMIT AVE CLOSED AT JOHNSON HILL ROAD ON XX/XX/XX (DATE) FOR X MONTHS"		
	WORK AREA	
		BARRICADES WITH TYPE A LOW INTENSITY FLASHING LIGHT

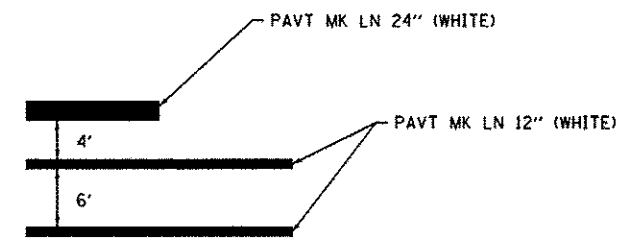
TRAFFIC CONTROL NOTES

CONTRACTOR MUST MAINTAIN A RIGHT-OUT MOVEMENT AND LEFT-IN MOVEMENT FOR NOTTING HILL COURT.

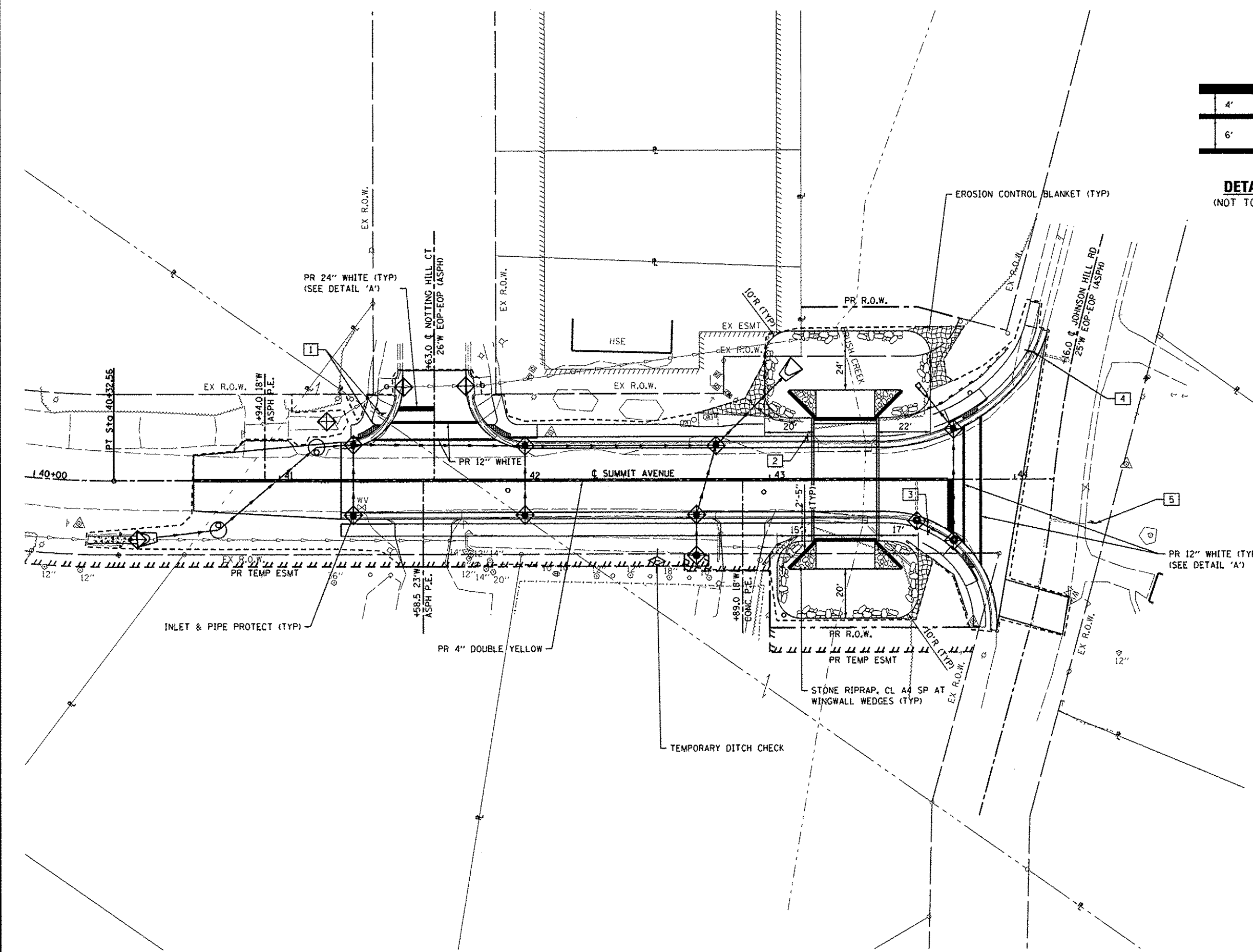
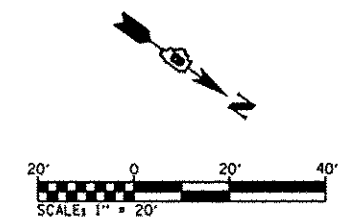
ALL CONSTRUCTION SIGNS TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



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	PLOT DATE : 3/3/2014	DATE -	REVISED -							
						SCALE: 1" = 600'	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 97552 ILLINOIS FED. AID PROJECT	



DETAIL 'A'
(NOT TO SCALE)



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- ◆ TEMPORARY DITCH CHECK
- ▨ STONE RIPRAP, CLASS A4
- ▩ PR STONE RIPRAP, CLASS A4 SP
- ◆ INLET AND PIPE PROTECTION
- ▨ EROSION CONTROL BLANKET (PLACED AT ALL SEEDING AREAS)
- EROSION CONTROL BARRIER

NOTES:

- 1.) ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.
- 2.) ALL EARTH SURFACES WITHIN CONSTRUCTION LIMITS NOT SHOWN WITH PROPOSED EROSION CONTROL BLANKET SHALL BE SODDED.
- 3.) NUMBERS CORRESPOND TO NUMBERS ON SIGN AND POST SCHEDULE, SEE SCHEDULE FOR MORE INFORMATION.

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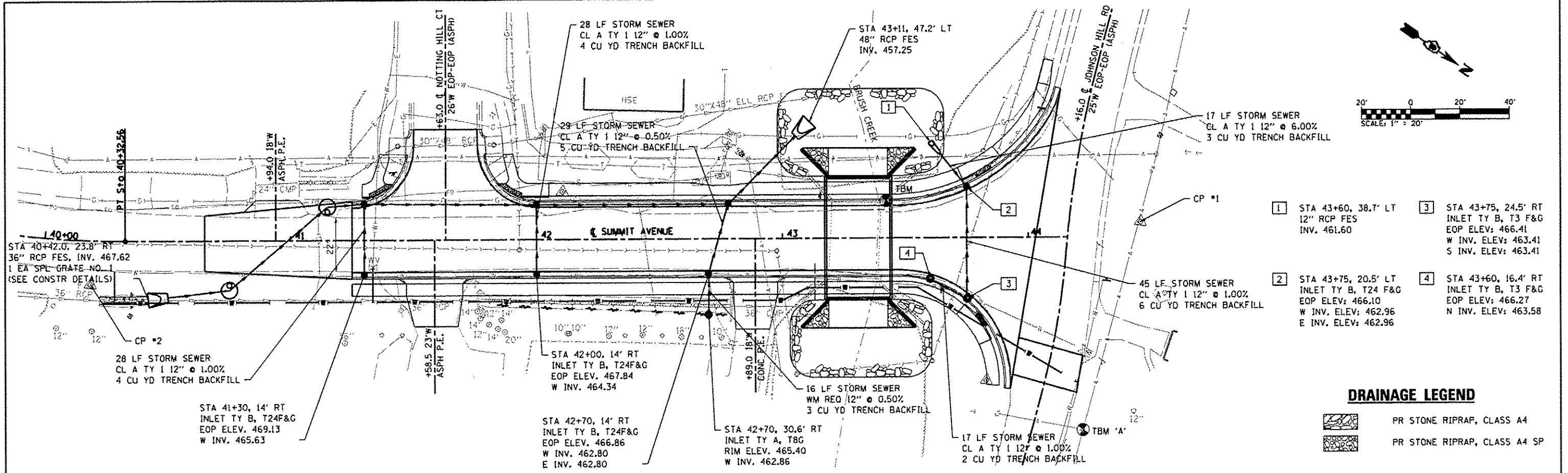
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL & PAVEMENT MARKING SHEET

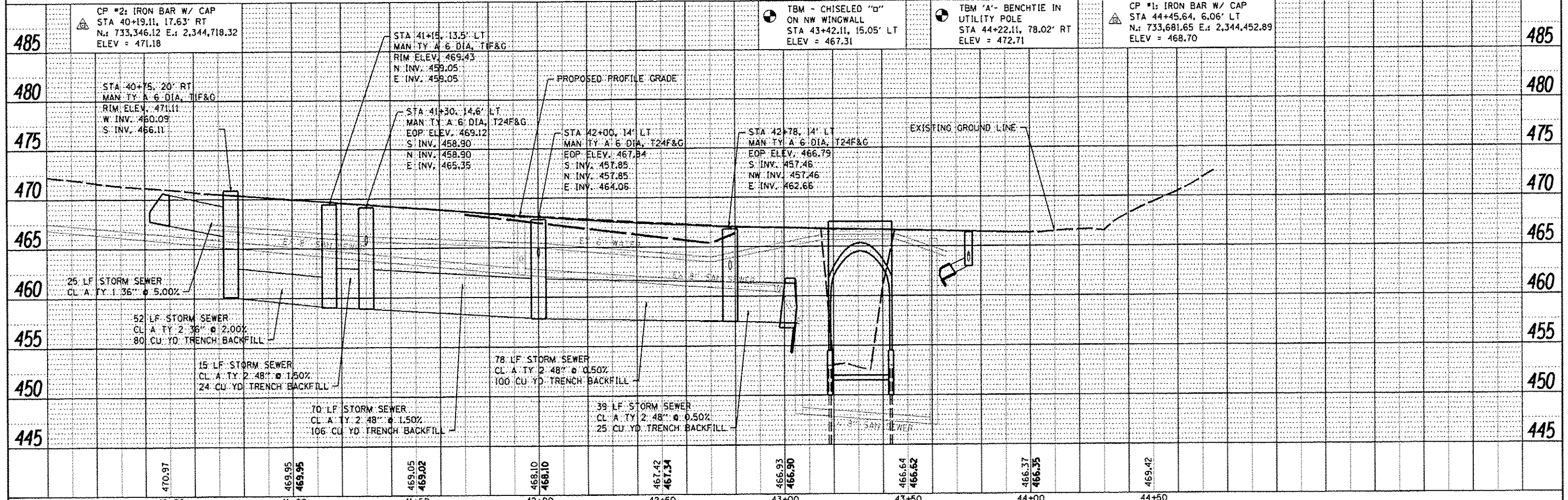
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F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 11
CONTRACT NO. 97552				ILLINOIS FED. AID PROJECT

DATE	
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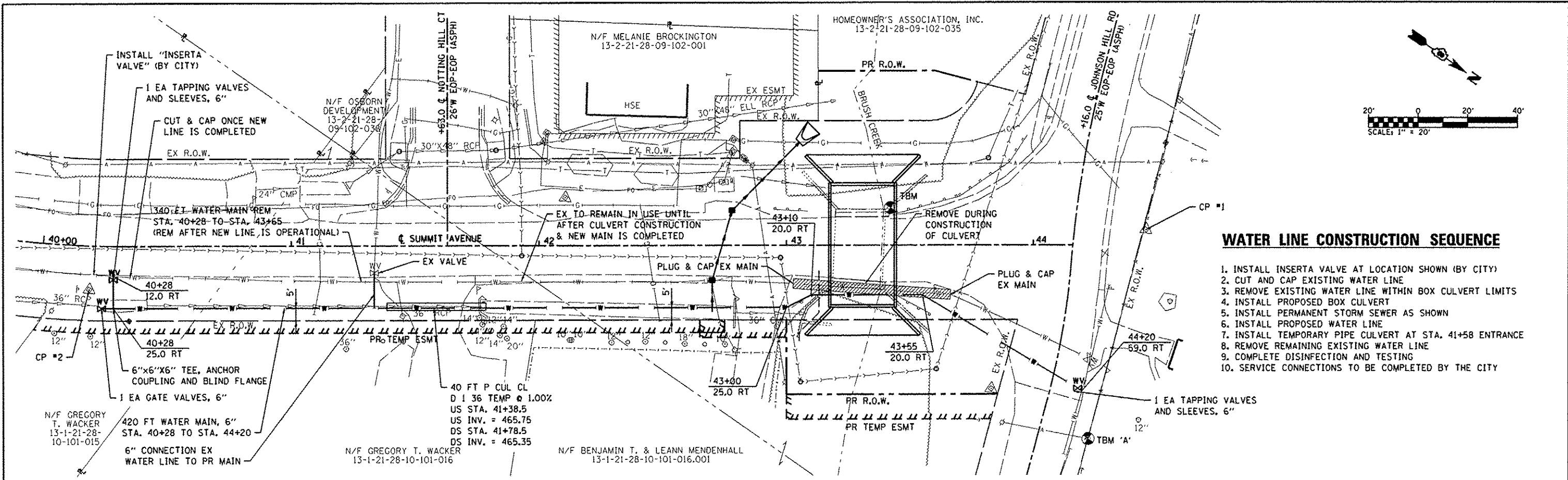
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FILE NAME: 0811005-shd-drain.dgn	USER NAME: default	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DRAINAGE PLAN & PROFILE SHEET		F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 12
PLOT TIME: 8/22/21 AM	CHECKED: -	REVISED: -	SCALE: 1" = 20'			SHEET 1 OF 1 SHEETS	STA. 41+00 TO STA. 44+50	CONTRACT NO. 9752				
PLOT SCALE: 40,0000 / IN.	DATE: -	REVISED: -	ILLINOIS FED. AID PROJECT									
PLOT DATE: 3/18/2014	DATE: -	REVISED: -										

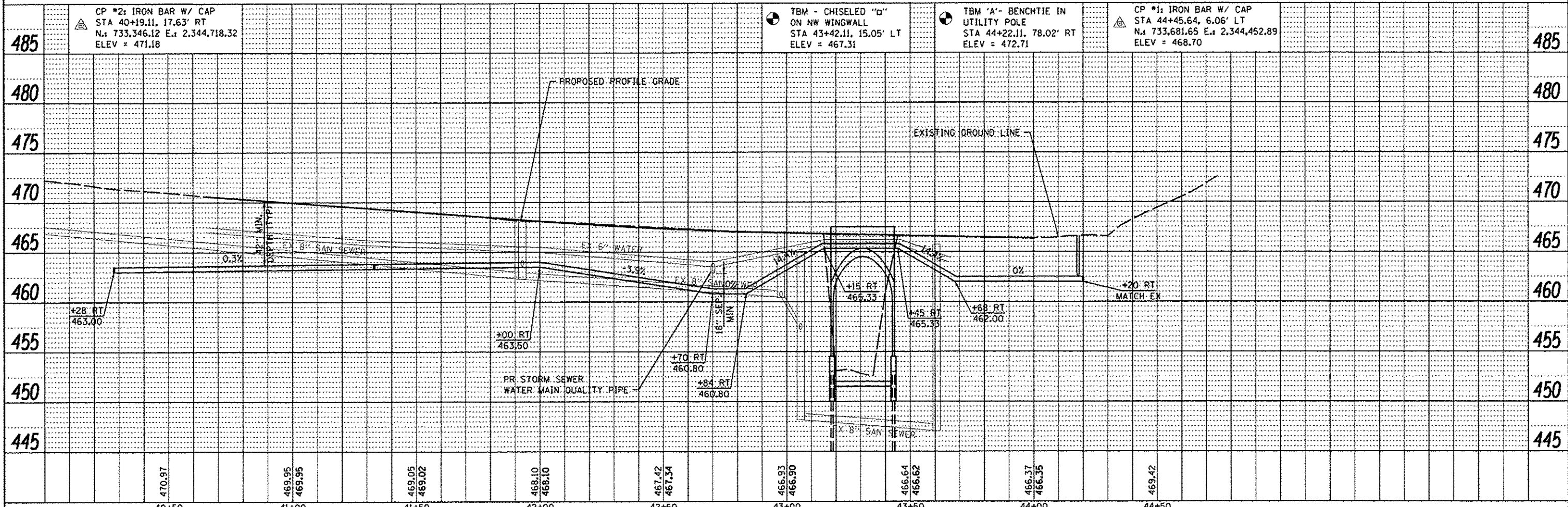
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PROJECT	
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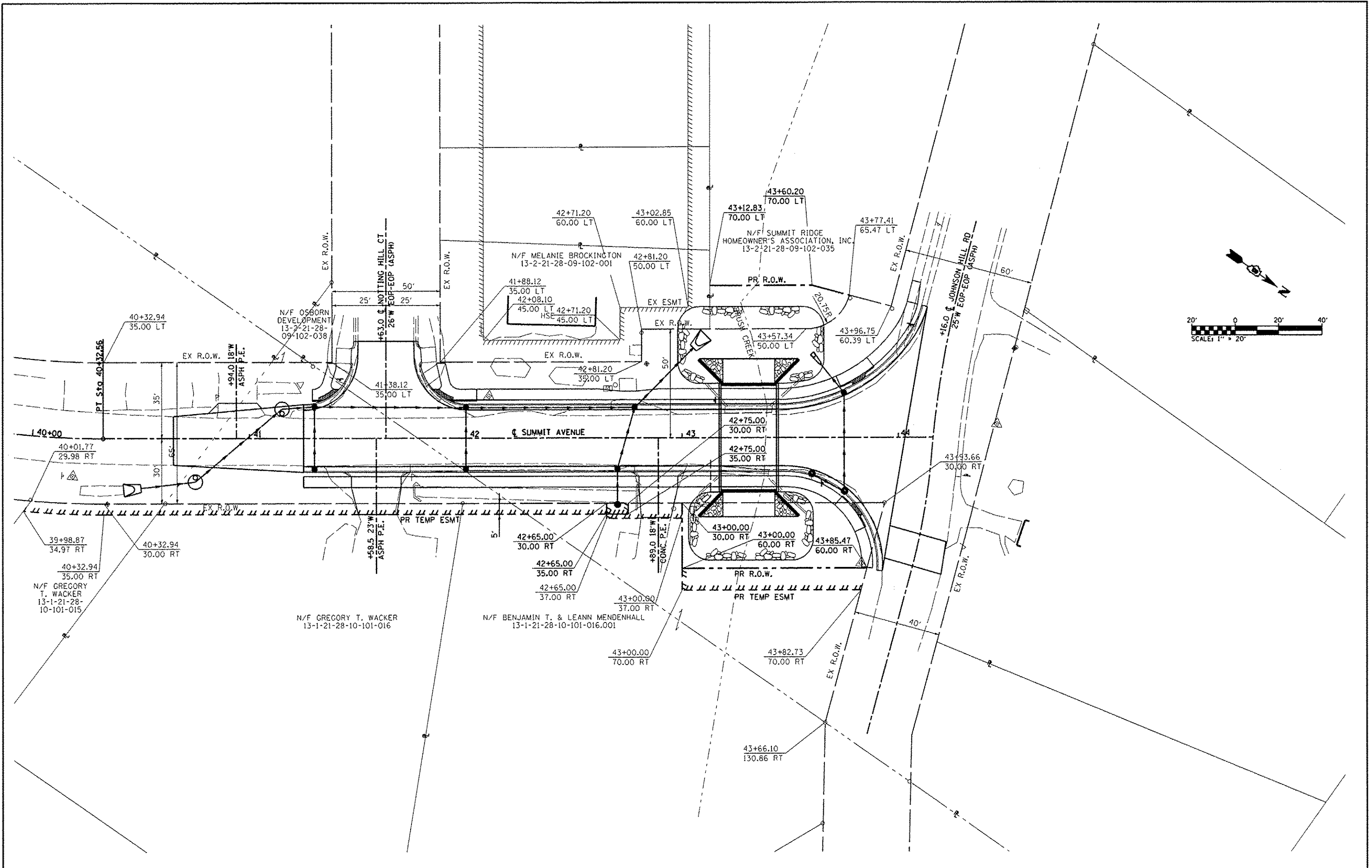


WATER LINE CONSTRUCTION SEQUENCE

1. INSTALL INSERTA VALVE AT LOCATION SHOWN (BY CITY)
2. CUT AND CAP EXISTING WATER LINE
3. REMOVE EXISTING WATER LINE WITHIN BOX CULVERT LIMITS
4. INSTALL PROPOSED BOX CULVERT
5. INSTALL PERMANENT STORM SEWER AS SHOWN
6. INSTALL PROPOSED WATER LINE
7. INSTALL TEMPORARY PIPE CULVERT AT STA. 41+58 ENTRANCE
8. REMOVE REMAINING EXISTING WATER LINE
9. COMPLETE DISINFECTION AND TESTING
10. SERVICE CONNECTIONS TO BE COMPLETED BY THE CITY



FILE NAME D811005-sh1-water.dgn	USER NAME default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				WATER LINE PLAN & PROFILE SHEET				F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 13							
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D811005-sh1-rwplan.dgn

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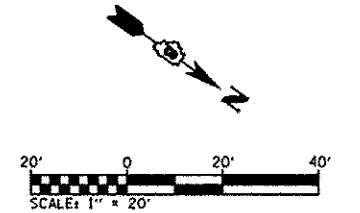
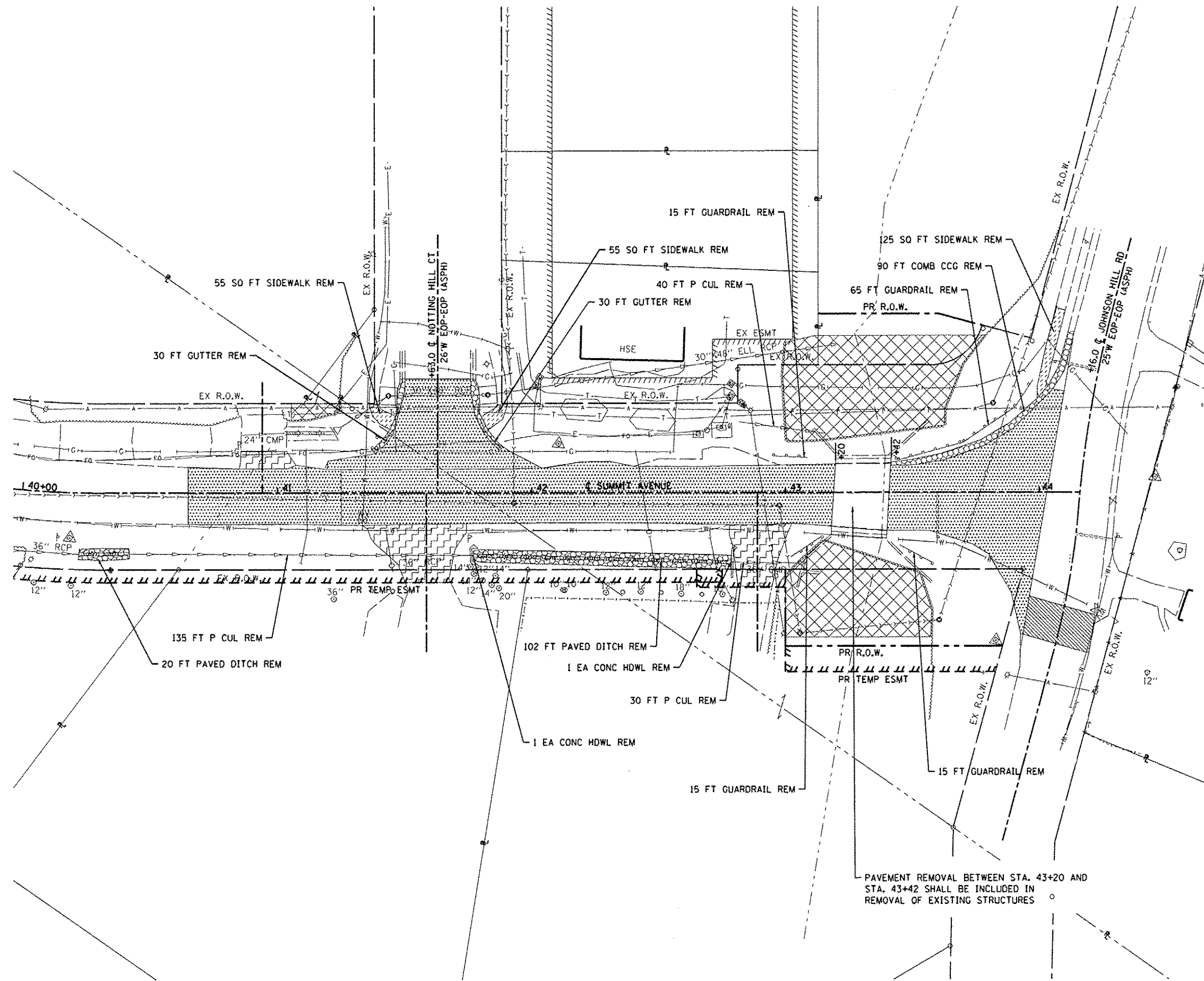
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

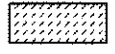


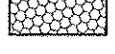


RIGHT OF WAY PLAN SHEET

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	14
CONTRACT NO. 97552				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

-  SIDEWALK REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  TREE REMOVAL
-  GUTTER, COMB CCG, OR PAVED DITCH REMOVAL
-  PAVEMENT REMOVAL
-  PAVEMENT PATCH

PAVEMENT REMOVAL BETWEEN STA. 43+20 AND STA. 43+42 SHALL BE INCLUDED IN REMOVAL OF EXISTING STRUCTURES

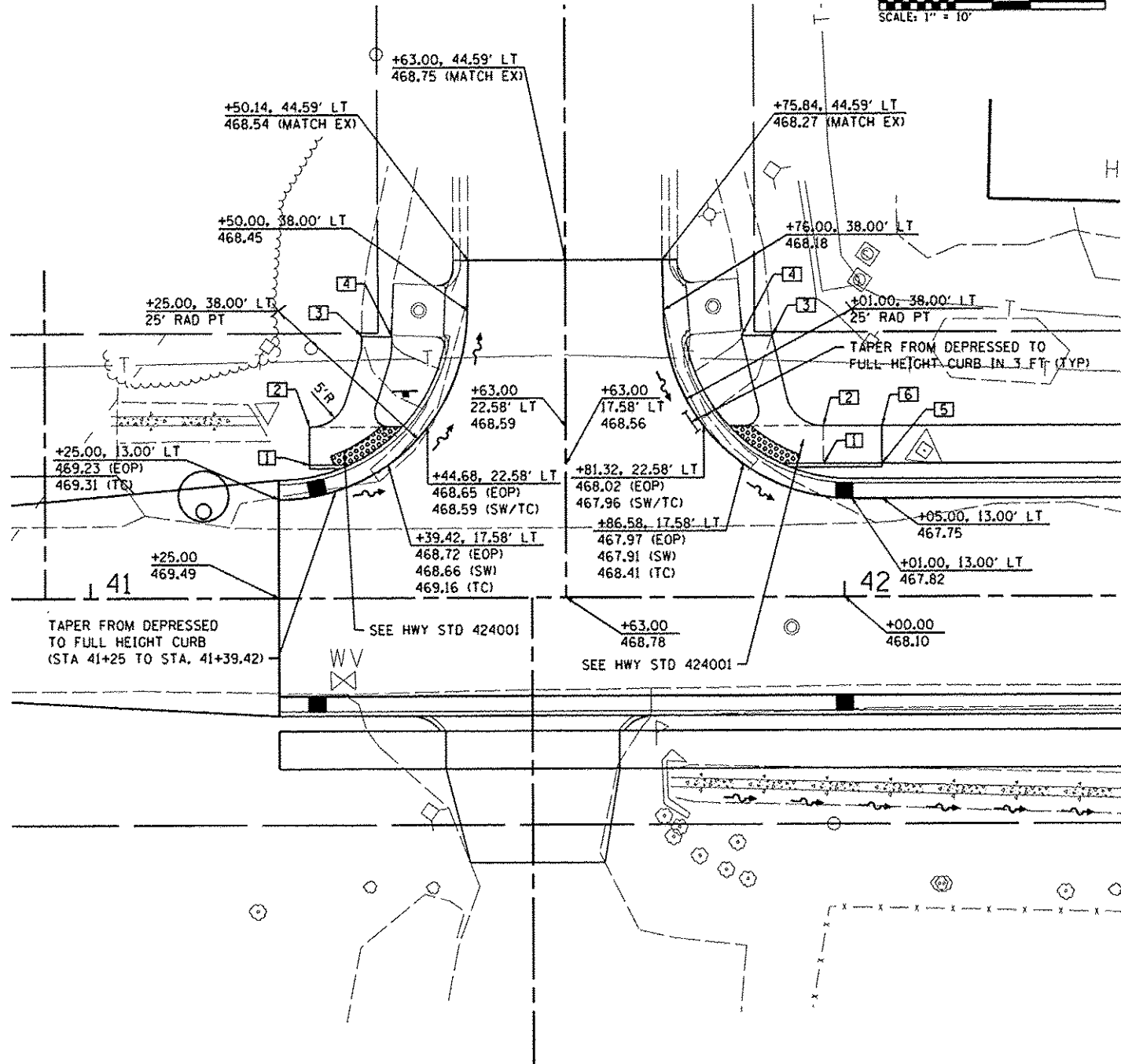
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN SHEET
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 15
			CONTRACT NO. 97552	
ILLINOIS FED. AID PROJECT				

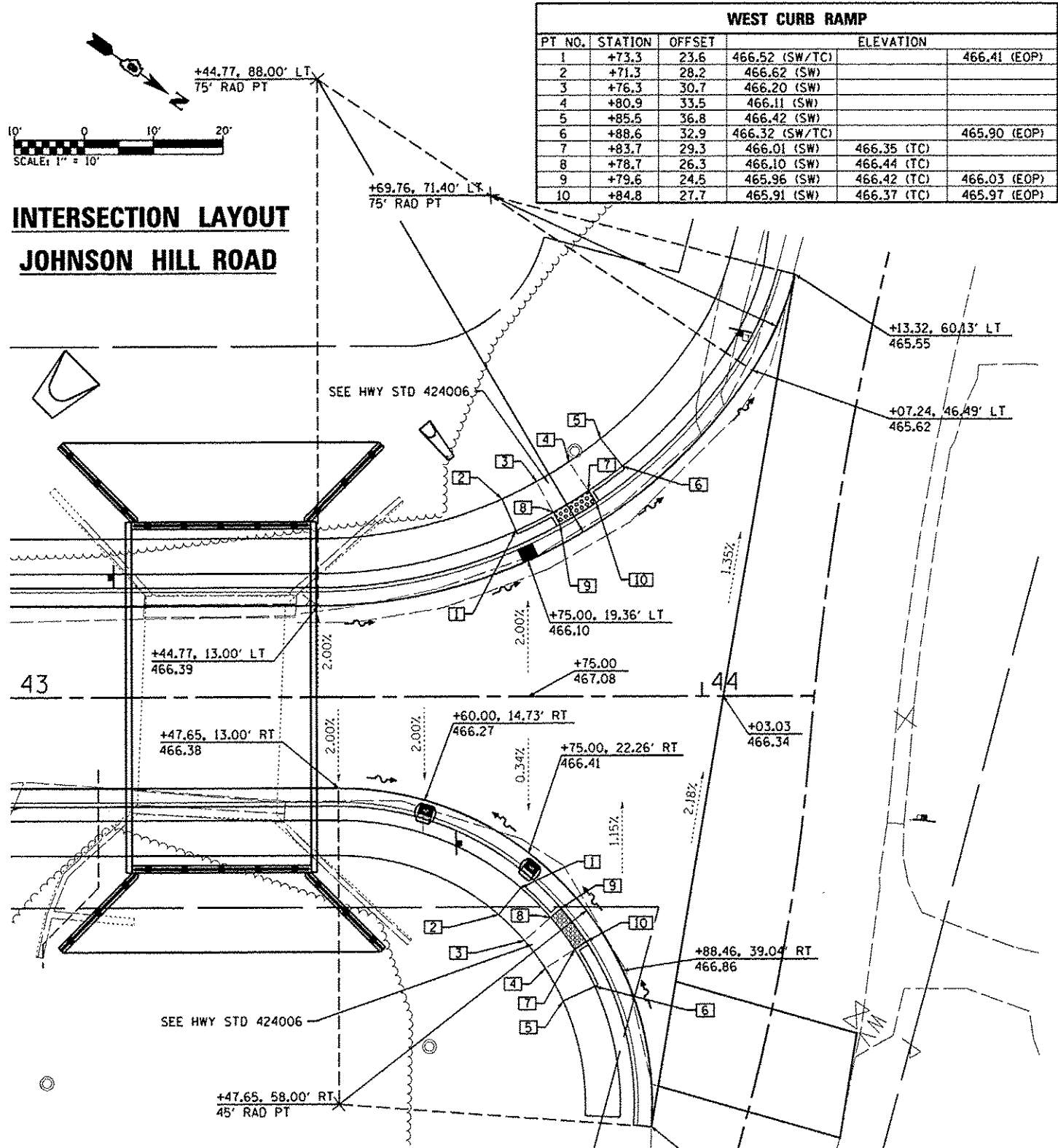
INTERSECTION LAYOUT NOTTING HILL COURT



SOUTH CURB RAMP				
PT NO.	STATION	OFFSET	ELEVATION	ELEVATION
1	+29.07	17.58	468.76 (SW)	469.26 (TC)
2	+29.07	22.58	468.80 (SW)	
3	+35.98	34.60	468.75 (SW) (ME)	
4	+39.98	34.54	468.73 (SW) (ME)	

NORTH CURB RAMP				
PT NO.	STATION	OFFSET	ELEVATION	ELEVATION
1	+97.23	17.58	468.01 (SW)	468.31 (TC)
2	+97.23	22.58	468.11 (SW)	
3	+90.44	34.55	468.61 (SW) (ME)	
4	+86.33	34.55	468.55 (SW) (ME)	
5	+05.00	17.58	468.17 (SW/TC)	
6	+05.00	22.58	468.27 (SW)	

INTERSECTION LAYOUT JOHNSON HILL ROAD



WEST CURB RAMP				
PT NO.	STATION	OFFSET	ELEVATION	ELEVATION
1	+73.3	23.6	466.52 (SW/TC)	466.41 (EOP)
2	+71.3	28.2	466.62 (SW)	
3	+76.3	30.7	466.20 (SW)	
4	+80.9	33.5	466.11 (SW)	
5	+85.5	36.8	466.42 (SW)	
6	+88.6	32.9	466.32 (SW/TC)	465.90 (EOP)
7	+83.7	29.3	466.01 (SW)	466.35 (TC)
8	+78.7	26.3	466.10 (SW)	466.44 (TC)
9	+79.6	24.5	465.96 (SW)	466.42 (TC)
10	+84.8	27.7	465.91 (SW)	466.37 (TC)

EAST CURB RAMP				
PT NO.	STATION	OFFSET	ELEVATION	ELEVATION
1	+73.9	27.2	466.88 (SW/TC)	466.46 (EOP)
2	+70.6	31.0	466.98 (SW)	
3	+74.4	34.7	466.74 (SW)	
4	+77.4	38.7	466.83 (SW)	
5	+79.9	43.4	467.18 (SW)	
6	+84.5	41.3	467.28 (SW/TC)	466.86 (EOP)
7	+81.6	36.0	466.78 (SW)	467.12 (TC)
8	+78.1	31.5	466.64 (SW)	466.98 (TC)
9	+79.6	30.1	466.50 (SW)	466.96 (TC)
10	+83.3	34.9	466.64 (SW)	467.10 (TC)

ABBREVIATIONS:
 TC - TOP OF CURB
 FG - FLOWLINE OF GUTTER
 EOP - EDGE OF PAVEMENT
 SW - SIDEWALK
 ME - MATCH EXISTING

Bench Mark: TBM - Chiseled square on northwest wingwall, Sta. 43+42.11, 15.05' Left, Elev. 467.31.

Existing Structure: S.N. 060-6300 consists of a single span cast-in-place reinforced concrete slab supported by closed abutments. The existing foundation type and date of construction are unknown. The structure was widened in 1956. The existing structure is to be removed and replaced.

Traffic Control: The road will be closed during construction and traffic will be detoured.

Salvage: None

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)		
	Upstream	Downstream
0100	448.0	448.0
0500	448.0	448.0

WATERWAY INFORMATION

Drainage Area = 1.20 Sq. Miles		Low Grade Elev. 466.3 at Sta. 44+00							
Flood	Freq. Yr.	0	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.			
		C.F.S.	Exist. Prop.		Exist. Prop.	Exist. Prop.			
Design	10	618	170	235	461.9	0.2	0.1	462.1	462.0
	30	940	200	265	463.5	1.7	1.6	465.2	465.1
	50	1,040	210	268	463.9	1.7	1.6	465.6	465.5
Base	100	1,230	215	270	464.5	1.5	1.5	466.0	466.0
Max. Calc.	500	1,720	215	270	465.7	1.5	1.5	467.2	467.2

INDEX OF SHEETS

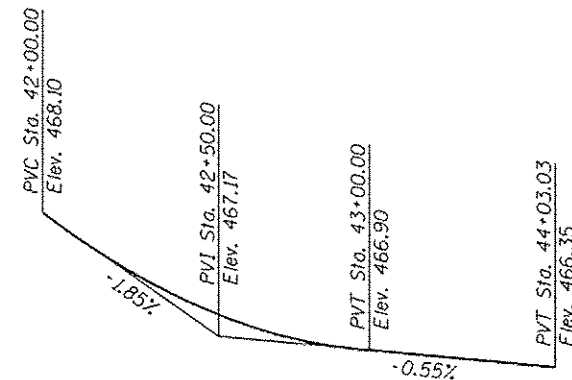
Sheet No.	Description
1	General Plan & Elevation
2	Construction Details
3-4	Structure Details
5	Pedestrian Railing Details
6	Soil Boring Logs

Notes:

- B6.24 concrete curb and gutter.
- For Temporary Sheet Piling and Temporary Soil Retention System details, see sheet 2 of 6.
- Existing waterline to be removed and replaced, see roadway plans.
- For limits of riprap, see roadway plans.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- The foundation design is based on assumed reactions applied at the top of the pile cap. The Contractor shall submit reactions for the selected structure along with the Three-Sided Precast Concrete Structure shop drawings. The Engineer will review and compare the reactions with the foundation design parameters. If the foundation has insufficient capacity, additional HP14x89 piles will be added to support the structure. If the foundation has excess capacity, no changes will be made. Any changes to the foundation system will be paid for at the contract unit price for the actual quantity of Furnished Steel Piles HP14x89, Driving Piles, and Pile Shoes.
- Cast-in-place concrete substructure has been specified. Precast wingwalls and footings will not be allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	146
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	605
Concrete Structures	Cu. Yd.	163.5
Reinforcement Bars, Epoxy Coated	Pound	20,100
Pedestrian Railing	Foot	111
Furnishing Steel Piles HP14x89	Foot	644
Driving Piles	Foot	644
Test Pile Steel HP14x89	Each	1
Pile Shoes	Each	24
Name Plates	Each	1
Controlled Low-Strength Material	Cu. Yd.	199.5
Temporary Sheet Piling	Sq. Ft.	3,415
Three-Sided Precast Concrete Structures 24'x10'	Foot	50
Temporary Soil Retention System	Sq. Ft.	504



V.C. = 100'

PROFILE GRADE

(along centerline roadway)

BRUSH CREEK
BUILT 20__ BY
CITY OF COLLINSVILLE
SEC. 11-00095-00-BR
STATION 43+30.86
STR. NO. 060-6308 LOADING HL-93

NAME PLATE

See Std. 515001

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded wire fabric)

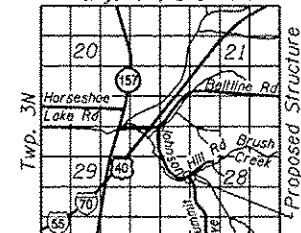
LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.24
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.55
Soil Site Class = D

Range 8W, 3rd P.M.



LOCATION SKETCH

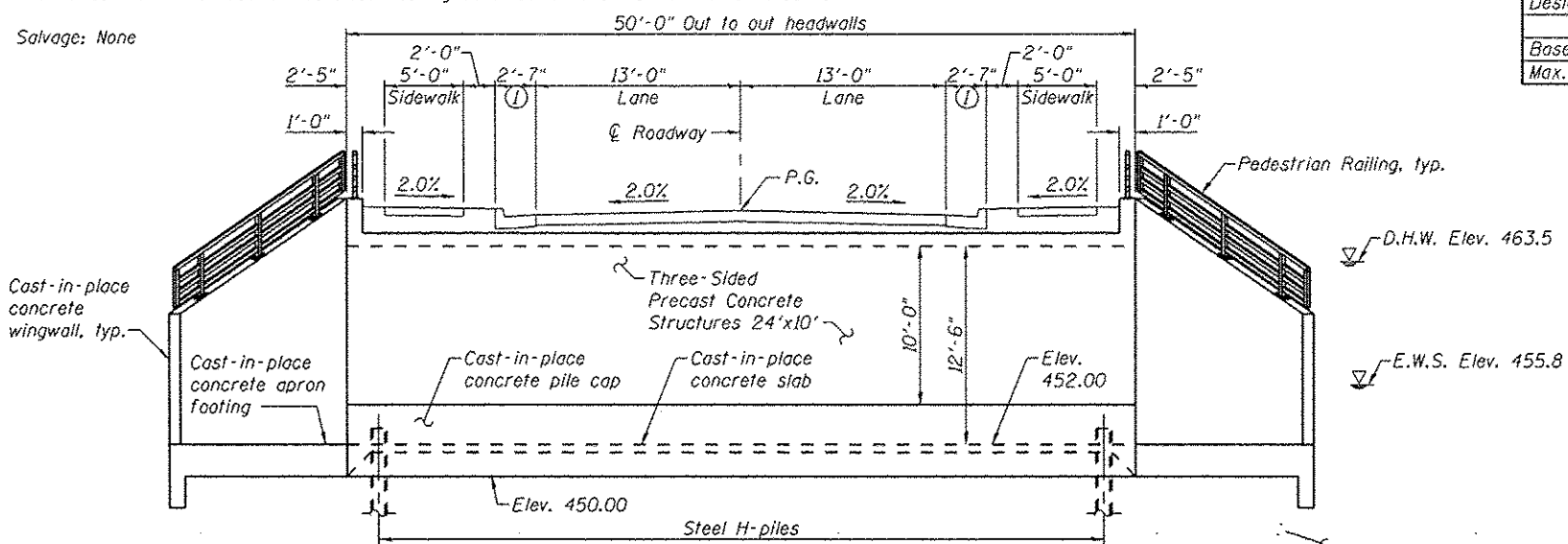
GENERAL PLAN & ELEVATION

SUMMIT AVENUE OVER BRUSH CREEK
F.A.U. RTE. 9133 - SEC. 11-00095-00-BR

MADISON COUNTY

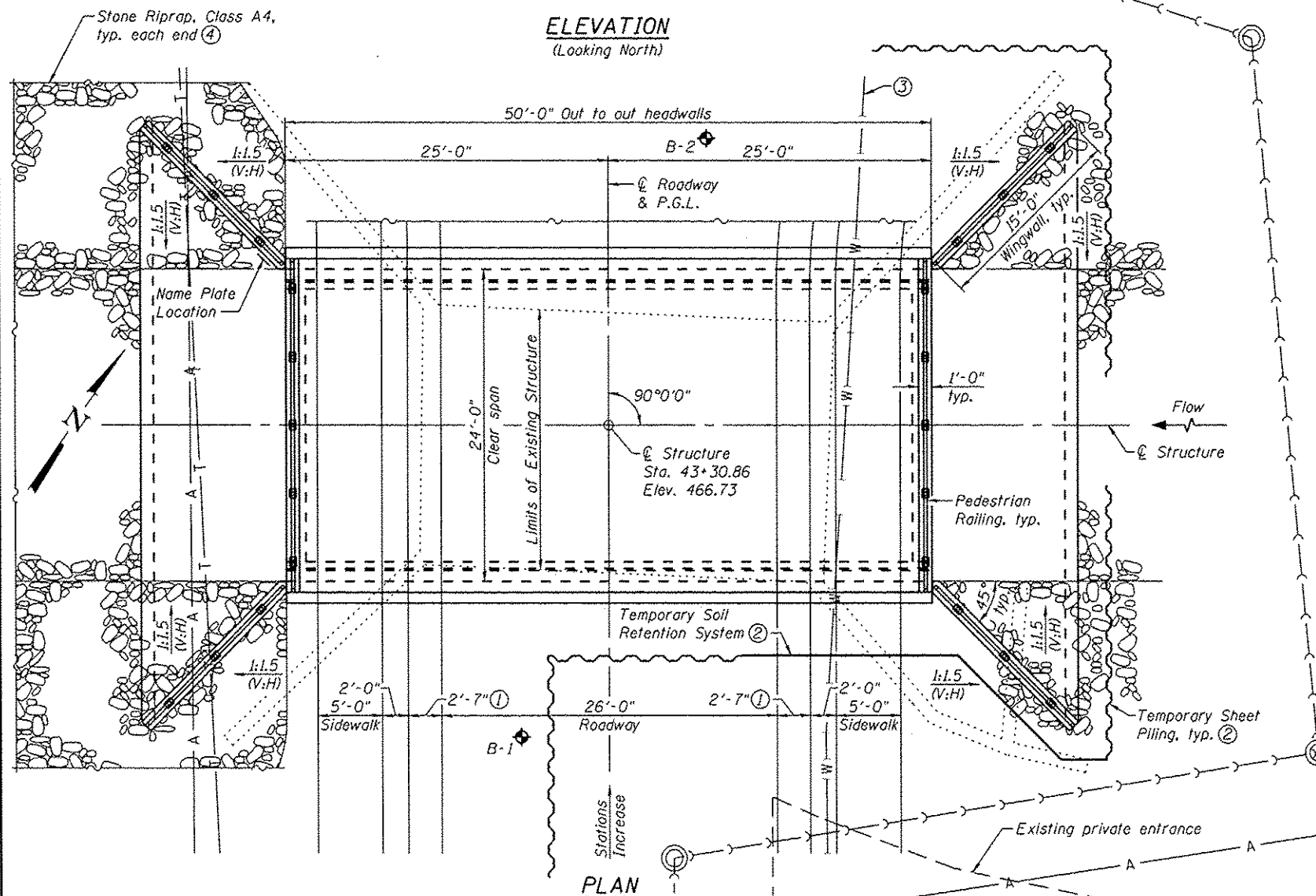
STATION 43+30.86

STRUCTURE NO. 060-6308



ELEVATION

(Looking North)



PLAN

I certify that to the best of knowledge, information and belief, the foundations, apron footings, and wingwalls are 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.

REGISTERED STRUCTURAL ENGINEER
DANIEL GEORGE LUTZ
081 006772
DATE: 3/5/2014
EXPIRATION: 11/30/2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 6 SHEETS

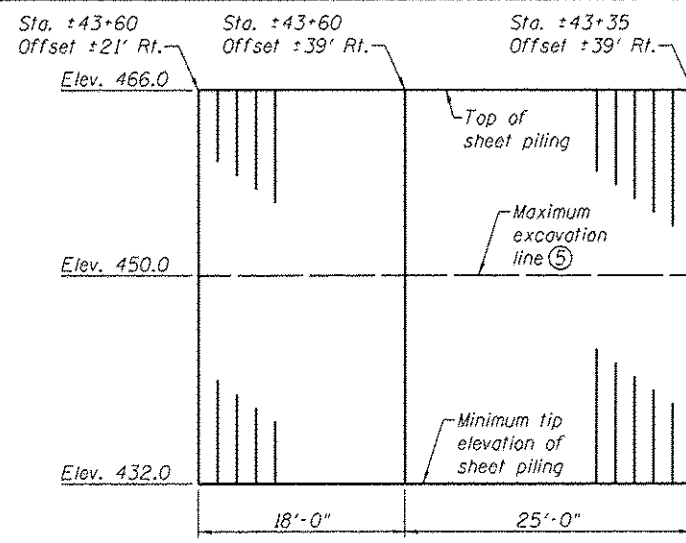
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	17

CONTRACT NO. 97552

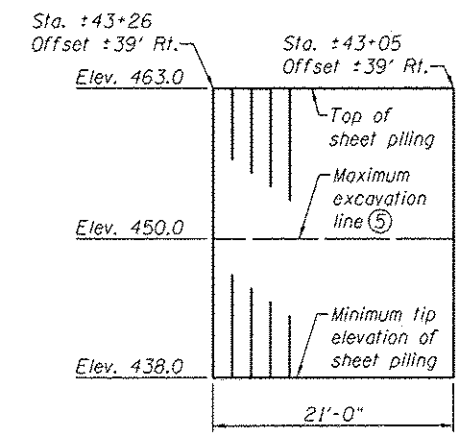
ILLINOIS FED. AID PROJECT

WATER ASSOCIATES
Engineering & Architecture

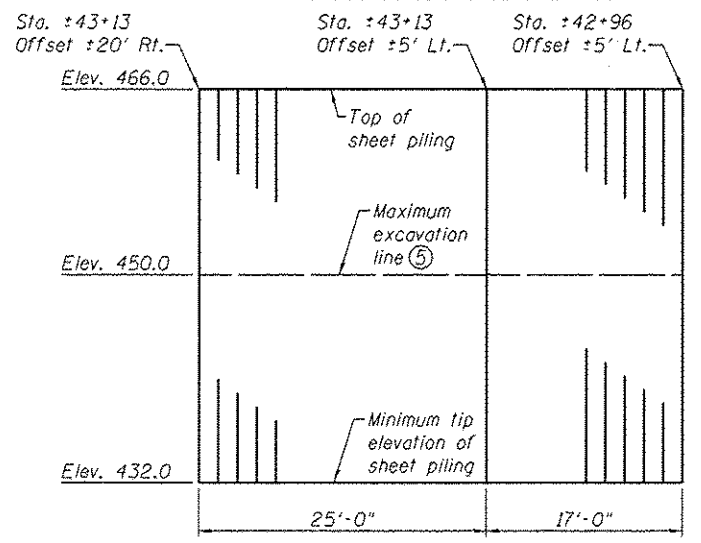
USER NAME	DESIGNED	REVISION
JAD	JAD	---
SJN	SJN	---
JAD	JAD	---
SJN	SJN	---



NORTHEAST WALL
(Minimum Section Modulus 28.6 in³/ft)

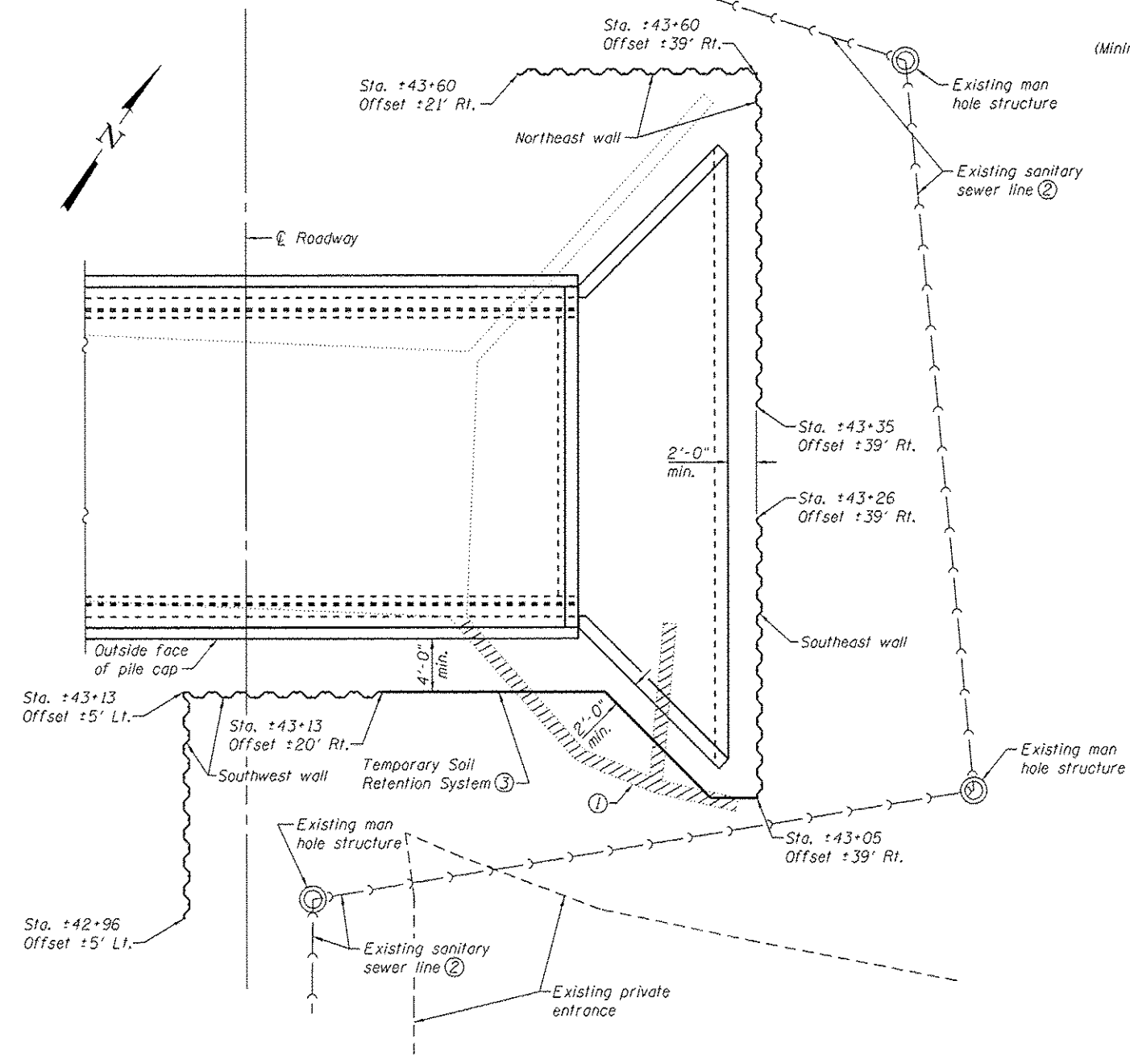


SOUTHEAST WALL
(Minimum Section Modulus 15.1 in³/ft)



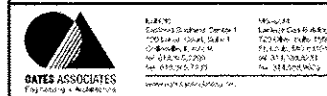
SOUTHWEST WALL
(Minimum Section Modulus 28.6 in³/ft)

SHEET PILING DETAIL



SHEET PILING PLAN

- Notes:
- ① Hatched area indicates existing retaining/wingwall. Foundation system is unknown.
 - ② The existing sanitary sewer line shall remain in service throughout construction. The Contractor shall protect sewer line from damage due to construction activities. Cost included with Temporary Sheet Piling and Temporary Soil Retention System.
 - ③ The proposed Temporary Soil Retention System shall be designed so it will not disturb the existing private entrance or sanitary sewer line behind the existing retaining/wing wall. The foundation system of the existing retaining/wing wall is unknown. The Contractor shall assume that the proposed retention system will have to work with or through the existing foundation system and the cost shall be included in the unit price for Temporary Soil Retention System. The top of the Temporary Soil Retention System shall be at elevation 466.0 and the maximum excavation elevation shall be 450.0.
 - ④ If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer. The Temporary Sheet Piling shall protect the existing sanitary sewer line, man hole structures, and the existing private entrance from damage during construction.
 - ⑤ Line indicates the maximum allowable excavation elevation. Excavation shall not extend below this elevation at any location. Excavation is not required to extend to this elevation throughout length of sheet piling.



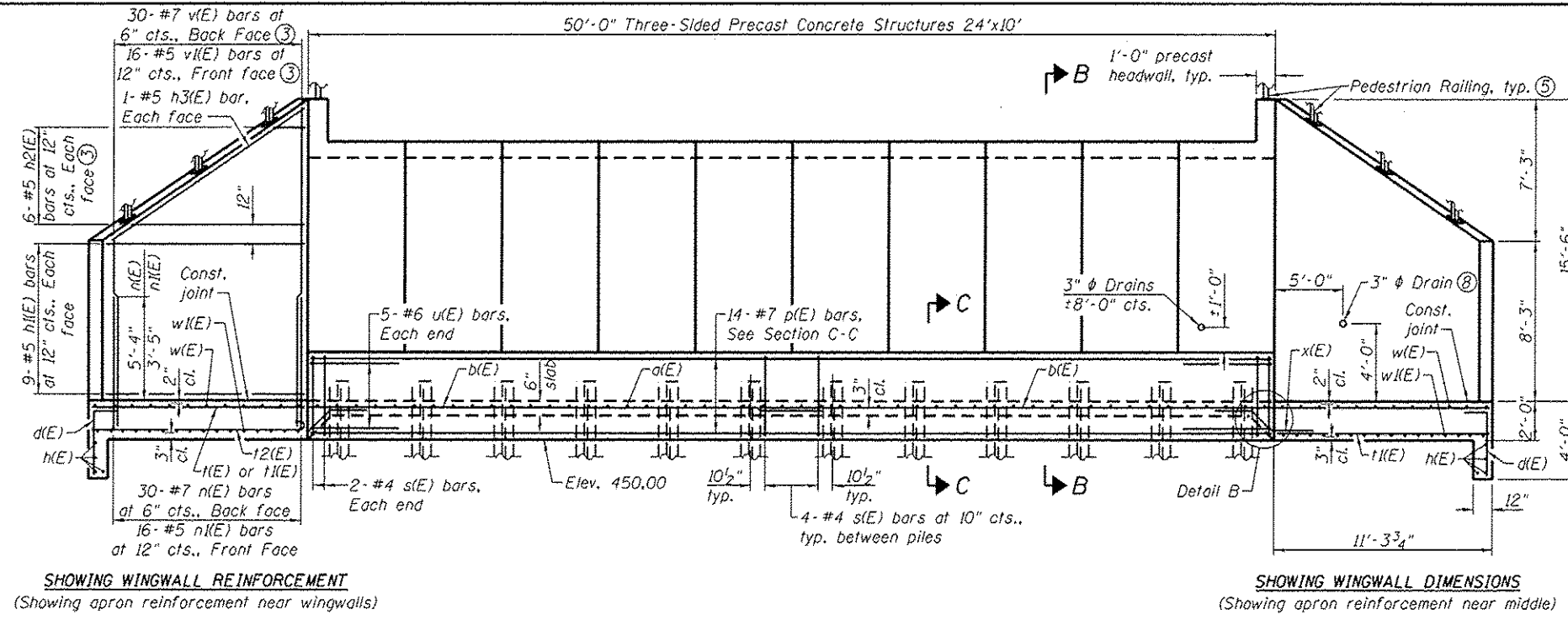
USER NAME :	DESIGNED - JAD	REVISED
PLOT SCALE :	CHECKED - S.JN	REVISED
PLOT DATE :	DRAWN - JAD	REVISED
	CHECKED - S.JN	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS
STRUCTURE NO. 060-6308**

SHEET NO. 2 OF 6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	18
CONTRACT NO. 97552				
ILLINOIS FED. AID PROJECT				

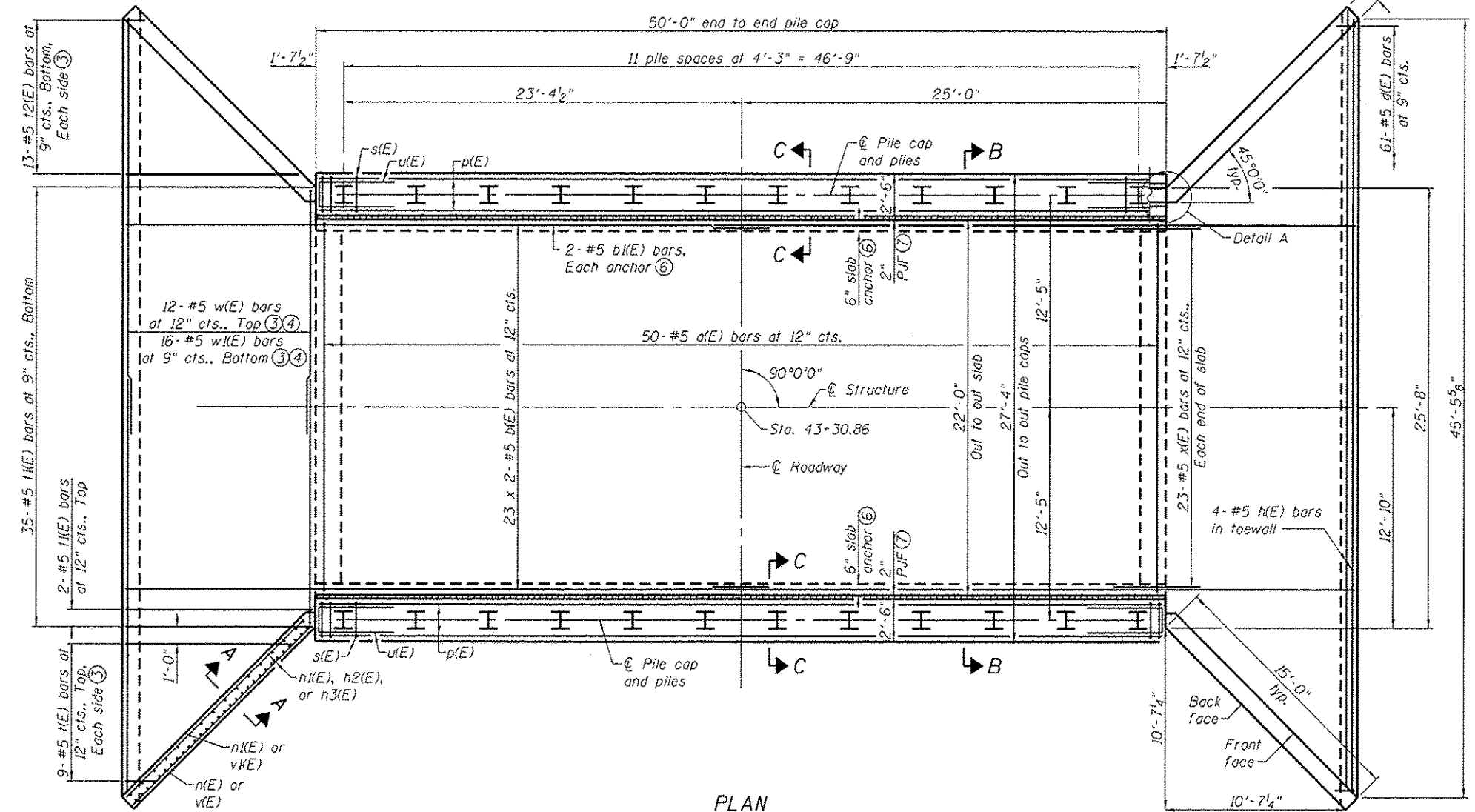


SHOWING WINGWALL REINFORCEMENT
(Showing apron reinforcement near wingwalls)

SHOWING WINGWALL DIMENSIONS
(Showing apron reinforcement near middle)

MINIMUM BAR LAP
#5 bar = 3'-3"

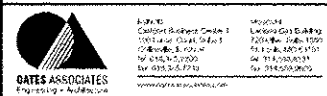
ELEVATION



PLAN
(Precast structure not shown for clarity)

PILE DATA
Type: Steel HPL4x89 with Pile Shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 387 kips
Est. Length: 28 ft
No. Production Piles: 23
No. Test Piles: 1

- Notes:
- ① Apron footing, toewalls, slab, and slab anchor shall be poured monolithically.
 - ② For Section A-A, Section B-B, Section C-C, Detail A, Detail B, bar details, Field Cutting Diagrams, and Bill of Material, see sheet 4 of 6.
 - ③ See Field Cutting Diagram.
 - ④ After cutting w(E) and w(E) bars, lap long bar with long bar and short bar with short bar as shown.
 - ⑤ For railing details and post spacing, see sheet 5 of 6.
 - ⑥ See Section B-B.
 - ⑦ See Section C-C.
 - ⑧ One drain hole shall be provided in each wingwall and shall conform to the requirements of the Special Provisions and of Article 503.11 of the Standard Specifications. The horizontal location shown is along the front face of the wingwall.
 - ⑨ All details shown for apron and toewall are for each end.
 - ⑩ All details shown for wingwall is for each of four.



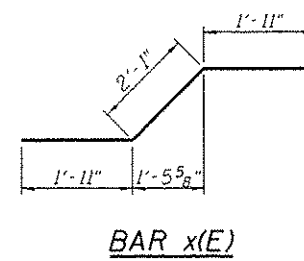
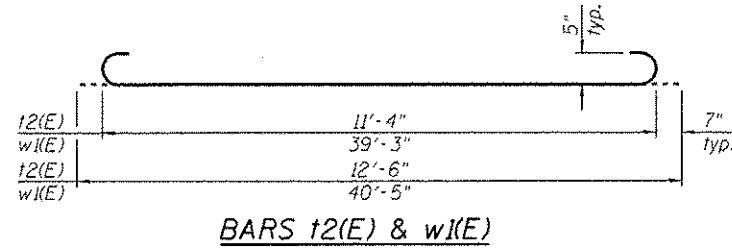
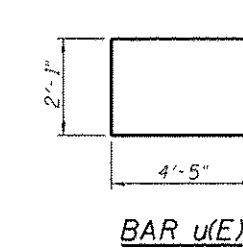
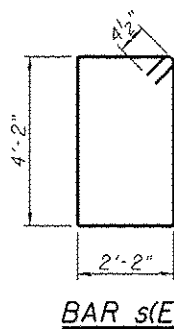
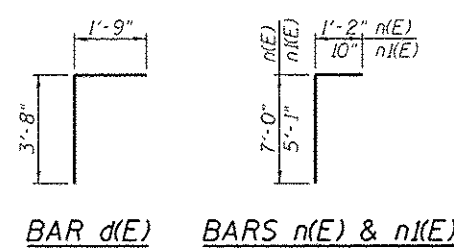
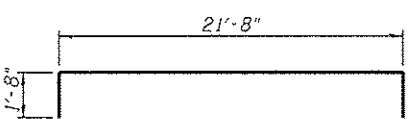
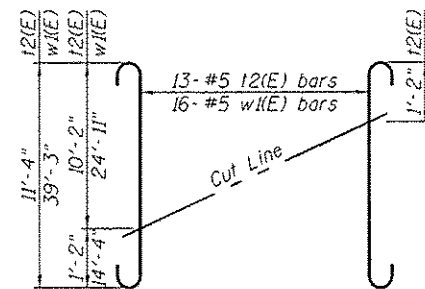
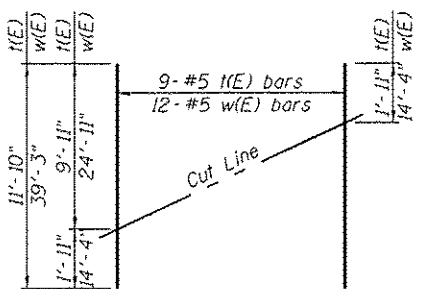
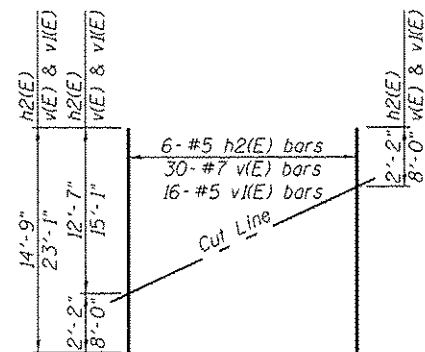
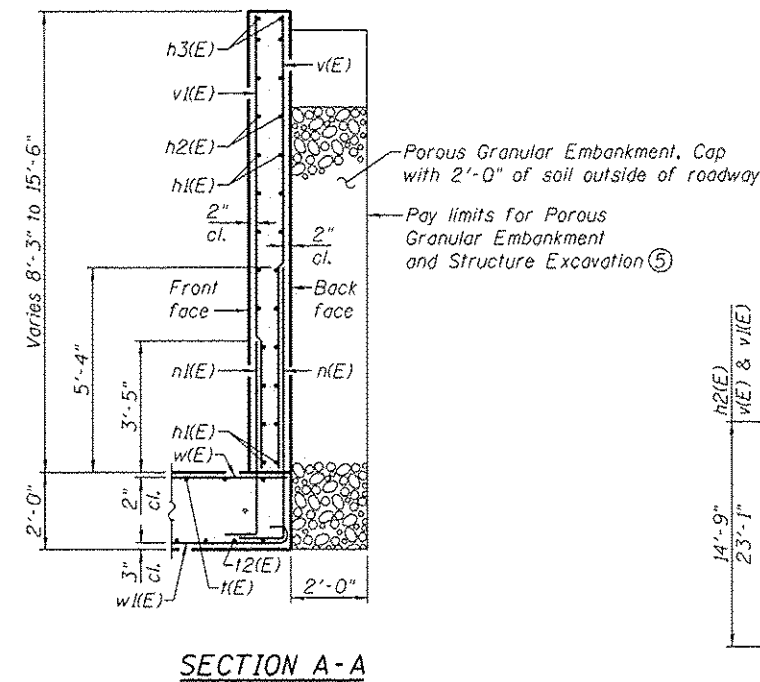
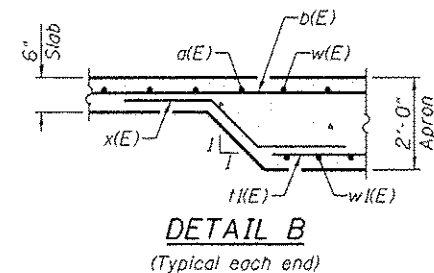
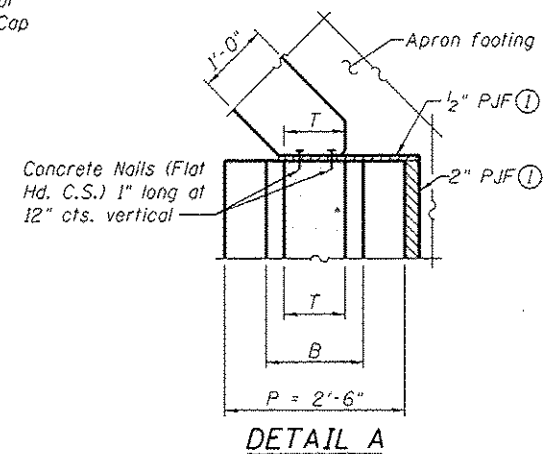
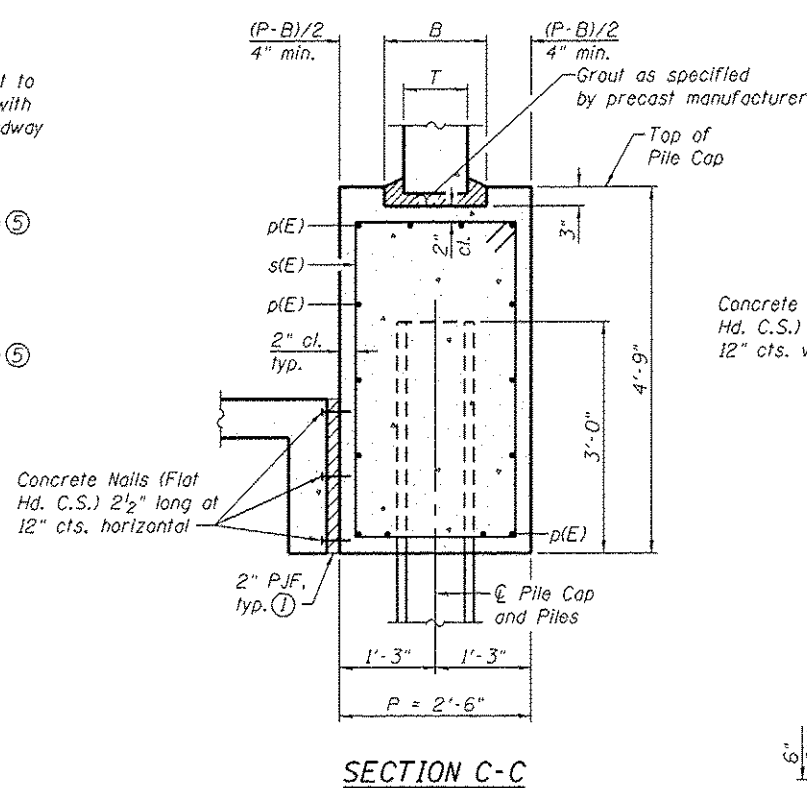
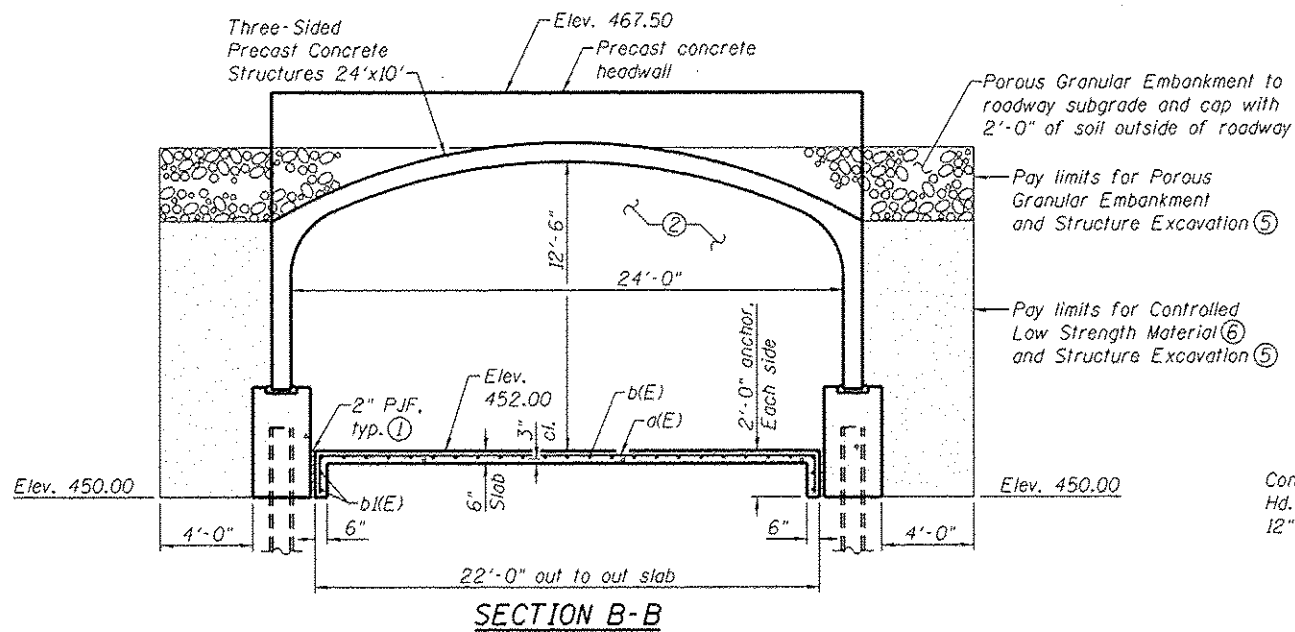
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PLOT SCALE :	CHECKED - SJN	REVISED
PLOT DATE :	DRAWN - JAD	REVISED
	CHECKED - SJN	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS
STRUCTURE NO. 060-6308

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	19
CONTRACT NO. 97552			ILLINOIS FED. AID PROJECT	

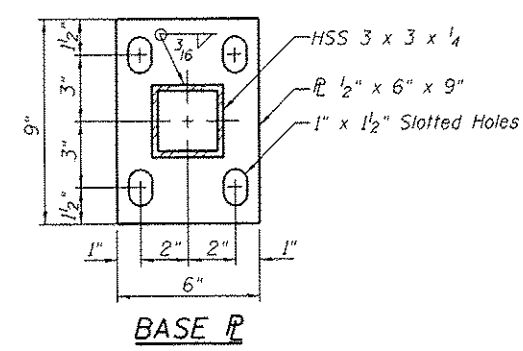
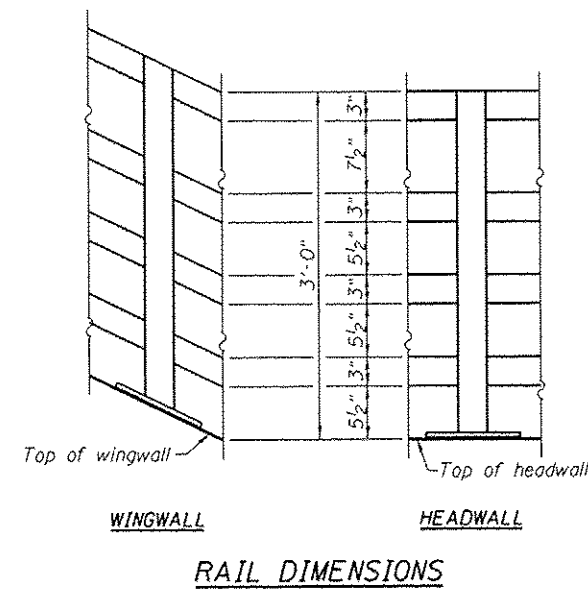
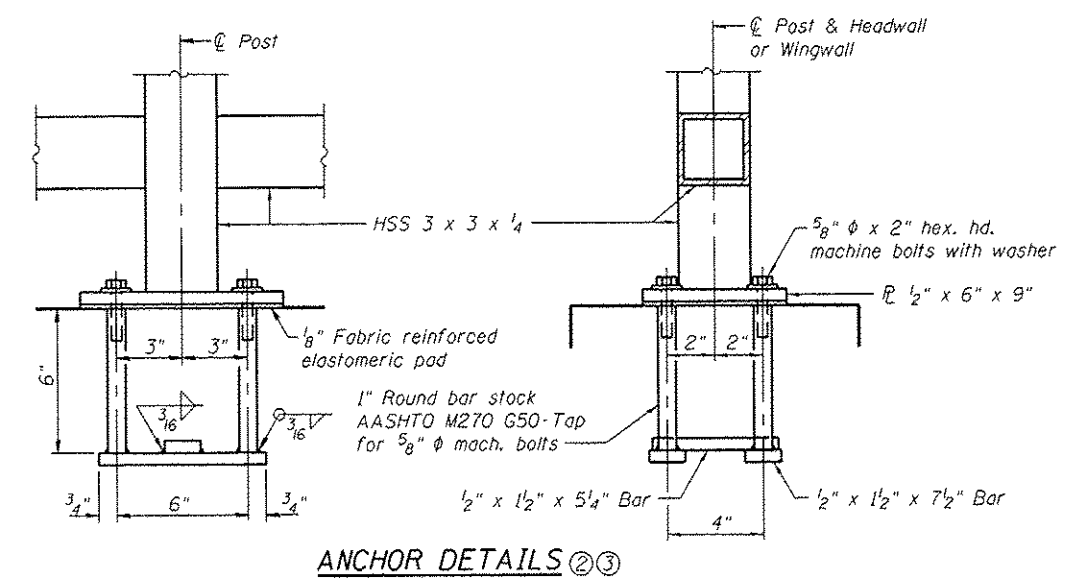
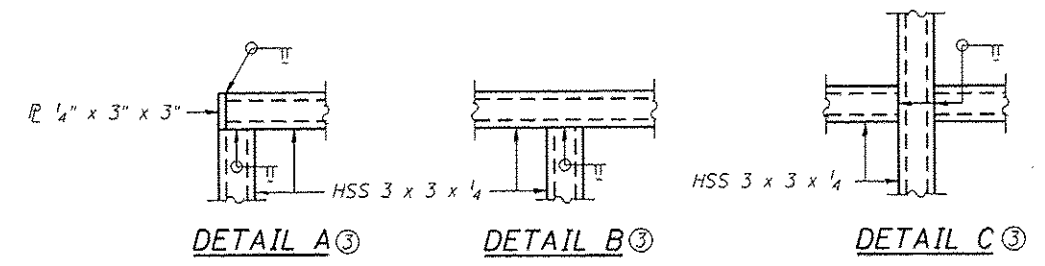
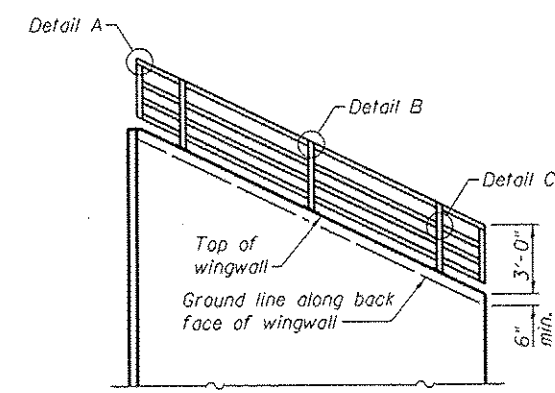
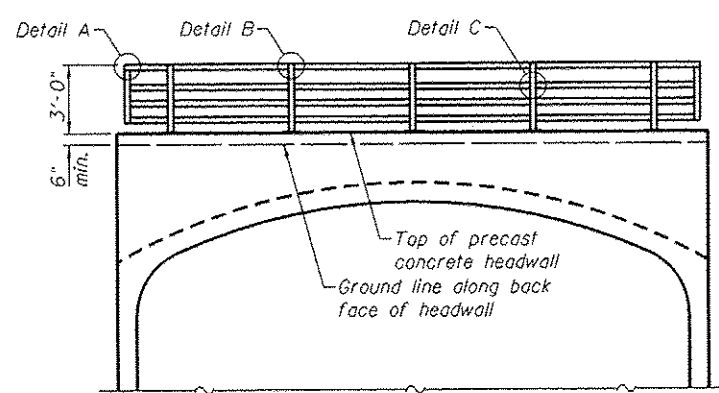
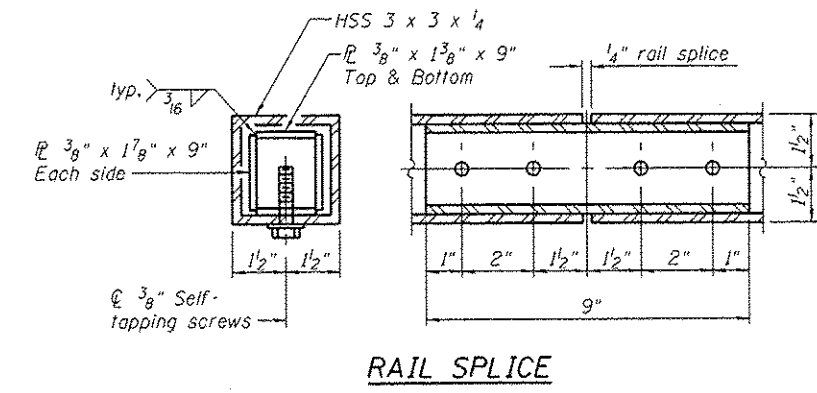
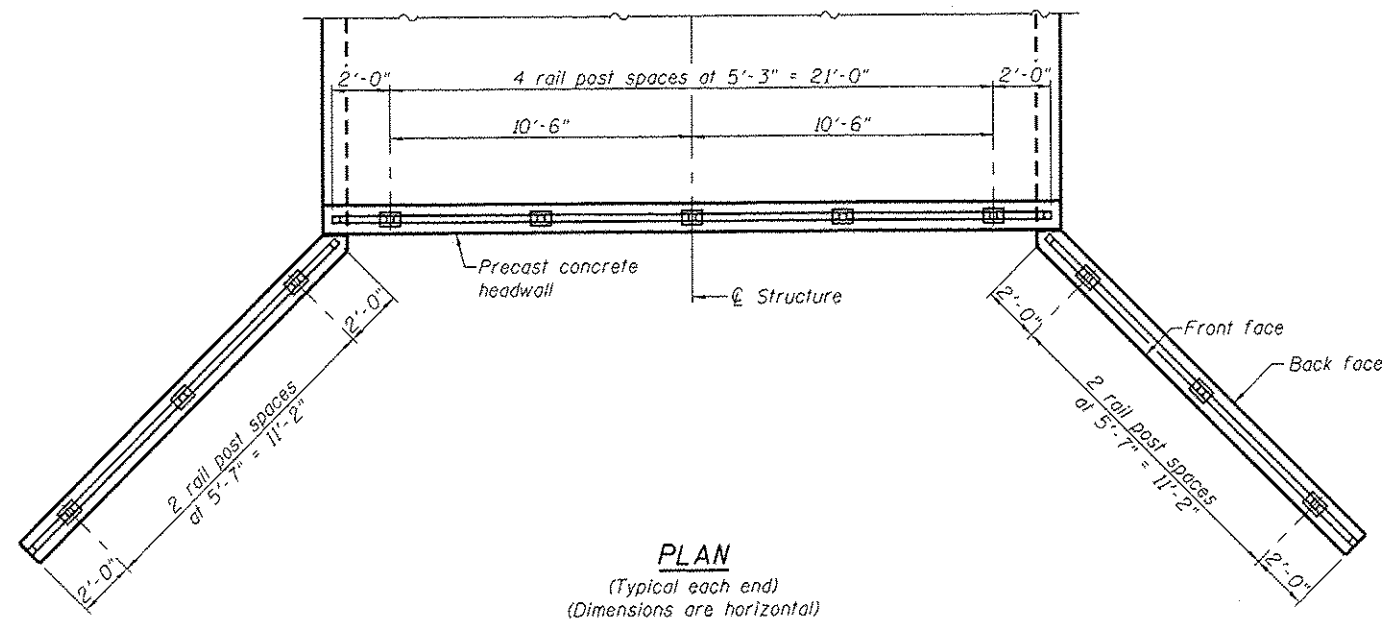
SHEET NO. 3 OF 6 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	50	#5	25'-0"	—
b(E)	46	#5	37'-10"	—
b1(E)	4	#5	49'-8"	—
d(E)	122	#5	5'-5"	—
h(E)	8	#5	45'-2"	—
h1(E)	72	#5	14'-8"	—
h2(E)	24	#5	14'-9"	—
h3(E)	8	#5	16'-3"	—
n(E)	120	#7	8'-2"	—
n1(E)	64	#5	5'-11"	—
p(E)	28	#7	49'-8"	—
s(E)	96	#4	13'-5"	—
t(E)	18	#5	11'-10"	—
t1(E)	78	#5	11'-0"	—
t2(E)	26	#5	12'-6"	—
u(E)	20	#6	10'-11"	—
v(E)	60	#7	23'-1"	—
v1(E)	32	#5	23'-1"	—
w(E)	24	#5	39'-3"	—
w1(E)	32	#5	40'-5"	—
x(E)	46	#5	5'-11"	—
Structure Excavation	Cu. Yd.		605	
Concrete Structures	Cu. Yd.		163.5	
Reinforcement Bars, Epoxy Coated	Pound		20,100	
Furnishing Steel Piles HP14x89	Foot		644	
Driving Piles	Foot		644	
Test Pile Steel HP14x89	Each		1	
Pile Shoes	Each		24	

- Notes:
- Preformed flexible foam expansion joint filler according to Article 1051.09 of the Standard Specifications. 2" P.J.F. shall extend full depth of slab anchor and full length of pile cap. 1/2" P.J.F. shall extend from bottom of apron footing to top of wingwall. Cost shall be included with Concrete Structures.
 - Three-Sided Precast Concrete Structures 24'x10', pile caps, and slab shall provide a minimum equivalent hydraulic opening of 270 sq. ft. Shape of precast structure may vary as per manufacturer.
 - Dimensions B & T as specified by the Three-Sided Precast Concrete Structure manufacturer.
 - Concrete in wingwalls, apron, slab, and pile caps shall be paid for as Concrete Structures.
 - Over excavation and backfill beyond the limits of Structure Excavation shall not be measured for payment.
 - Contractor shall place Controlled Low Strength Material in lifts not to exceed 4 ft in height. At no time shall the difference between the heights of fill on opposite sides of the structure be greater than 1 ft. The pay limits shall be as shown and shall extend from end to end of pile cap.

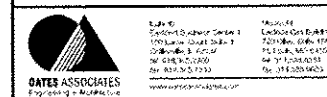


Notes:

- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. After galvanizing, all posts, rails, splices, and plates shall be cleaned and shop painted according to Section 506 of the Standard Specifications. Color shall be black. All nuts, bolts, washers, and other fasteners shall be stainless steel.
- In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.
- Sloped railings not shown, details similar.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	111



USER NAME :	DESIGNED - JAD	REVISED
PLOT SCALE :	CHECKED - SUN	REVISED
PLOT DATE :	DRAWN - JAD	REVISED
	CHECKED - SUN	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN RAILING DETAILS
STRUCTURE NO. 060-6308
SHEET NO. 5 OF 6 SHEETS

F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 21
			CONTRACT NO. 97552	
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highway Geotechnology, Inc.

SOIL BORING LOG

Page 1 of 1
Date 7/3/12

ROUTE Summit Avenue DESCRIPTION Summit Avenue Culvert at Johnson Hill Road LOGGED BY RFW
SECTION _____ LOCATION Collinsville, Illinois, SEC. 28, TWP. T3N, RNG. R4W
COUNTY Madison DRILLING METHOD 3.75" ID HSA, MR below 20 ft HAMMER TYPE CME 55 / 80%

STRUCT. NO. <u>060-6300</u> Station _____	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Description	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
					Asphalt and Concrete Pavement - 10 inches				
					Crushed Rock Base Course = 12 inches				
	465.2	3			Brown, SILT, with gravel (FILL)				
		1							
		2			black				
	461.6				Medium stiff, grayish-brown, SILT				
		ST3	0.6	25					
		1	0.5	26					
	456.5				Soft, brown, SANDY CLAY LOAM				
		0	0.3	22					
		0	B		Hard, bluish-gray, shaley, SILTY CLAY				
		1		24					
	451.6				Very stiff, brown, SILT				
		1		18					
	450.0				Shear Strength = 1.14 tsf				
		ST7		24	Loose, tan, SANDY LOAM				
		3		17					
		5							
		5							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highway Geotechnology, Inc.

SOIL BORING LOG

Page 1 of 1
Date 7/3/12

ROUTE Summit Avenue DESCRIPTION Summit Avenue Culvert at Johnson Hill Road LOGGED BY RFW
SECTION _____ LOCATION Collinsville, Illinois, SEC. 28, TWP. T3N, RNG. R4W
COUNTY Madison DRILLING METHOD 3.75" ID Hollow Stem Auger HAMMER TYPE CME 55 / 80%

STRUCT. NO. <u>060-6300</u> Station _____	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Description	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
					Asphalt and Concrete Pavement - 11 inches				
					Crushed Rock Base Course = 11 inches				
	464.7	1			Brown, SILTY CLAY LOAM (FILL)				
		2							
		1							
		1							
		1							
		1							
		1							
		1							
		2							
		2	0.9	14					
		9	S						
	458.5				Medium stiff to stiff, brown and gray to beige, SILT				
		3							
		6	0.9	18					
		9	S						
		1							
		2	0.3	28					
		4	B						
		2							
		4	1.0	24					
		4	S						
		3							
		4	1.7	24					
		7	S						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 8-99)



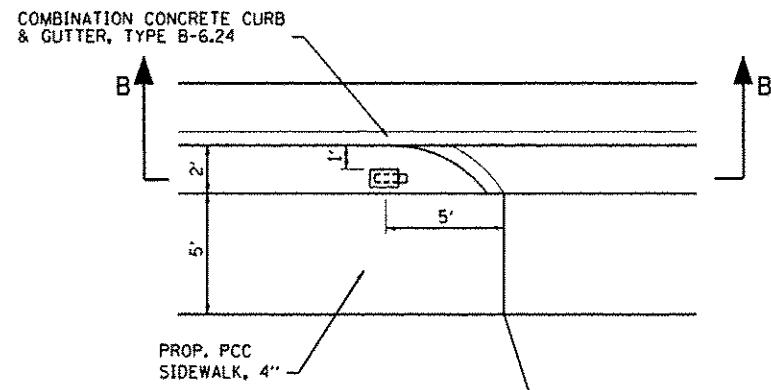
USER NAME :	DESIGNED -	REVISED
PLOT SCALE :	CHECKED -	REVISED
PLOT DATE :	DRAWN -	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 060-6308
SHEET NO. 6 OF 6 SHEETS

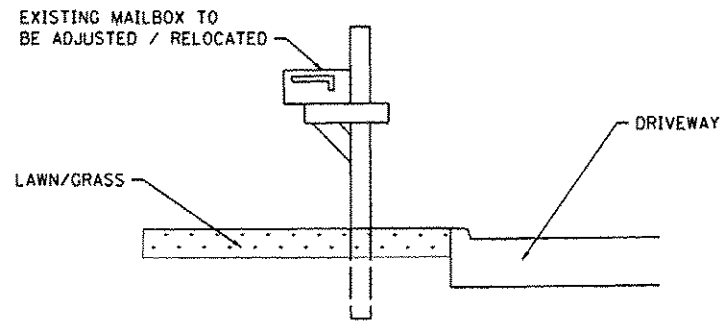
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	22
CONTRACT NO. 97552				

ILLINOIS FED. AID PROJECT



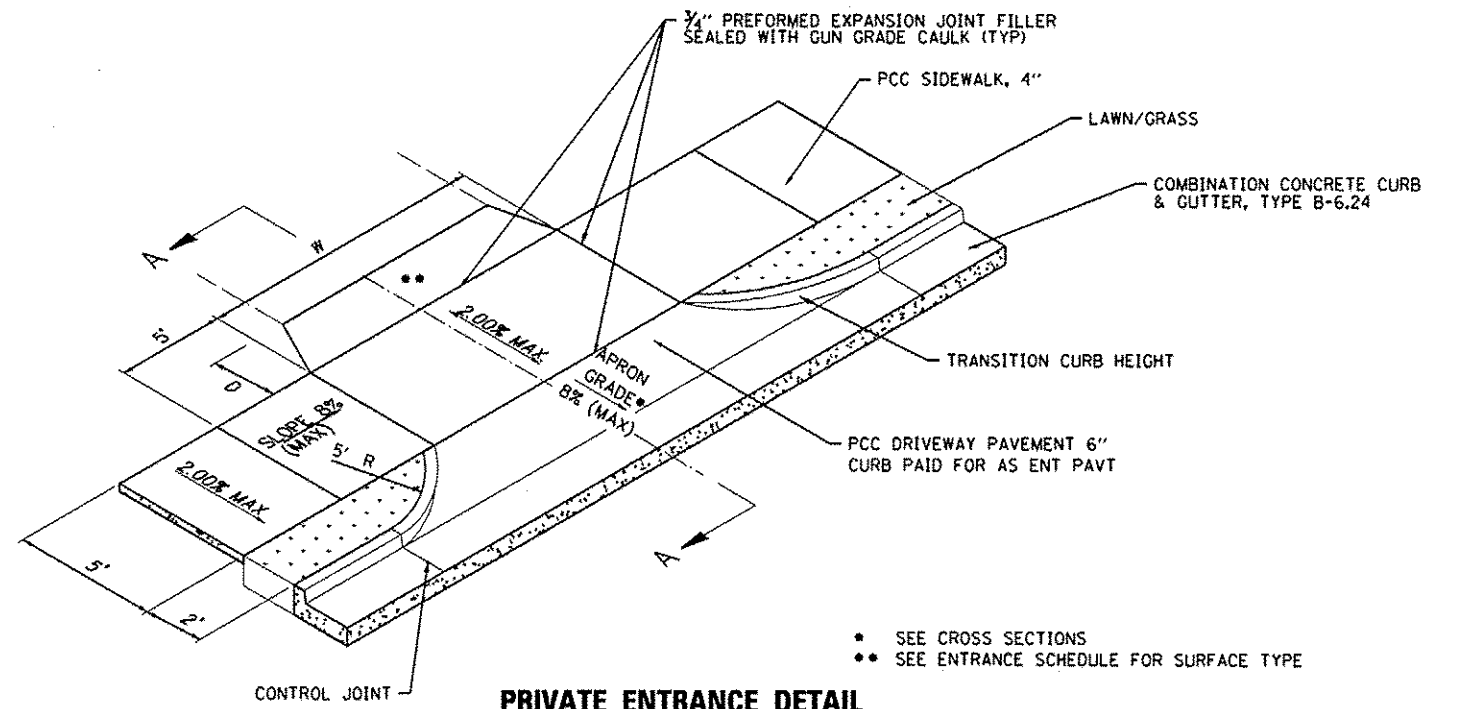
NOTES:
THE COST FOR MAILBOX RELOCATION SHALL BE INCLUDED IN THE COST FOR PCC SIDEWALK, 4"

PLAN
(NOT TO SCALE)



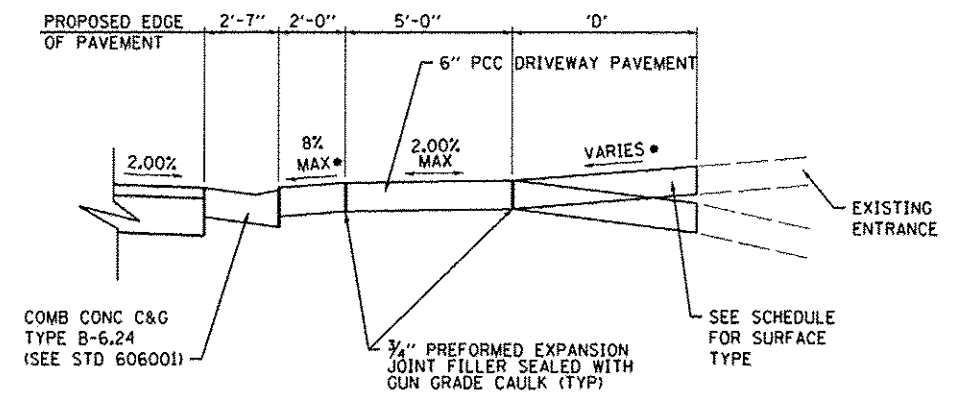
SECTION B-B
(NOT TO SCALE)

MAILBOX DETAIL
(NOT TO SCALE)



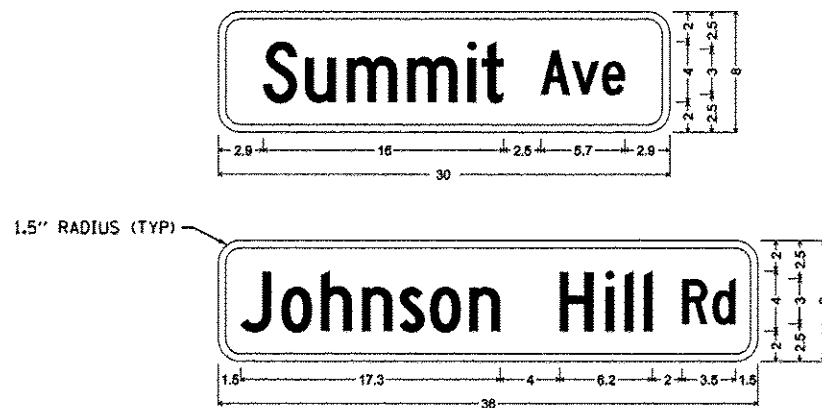
PRIVATE ENTRANCE DETAIL
(NOT TO SCALE)

• SEE CROSS SECTIONS
•• SEE ENTRANCE SCHEDULE FOR SURFACE TYPE

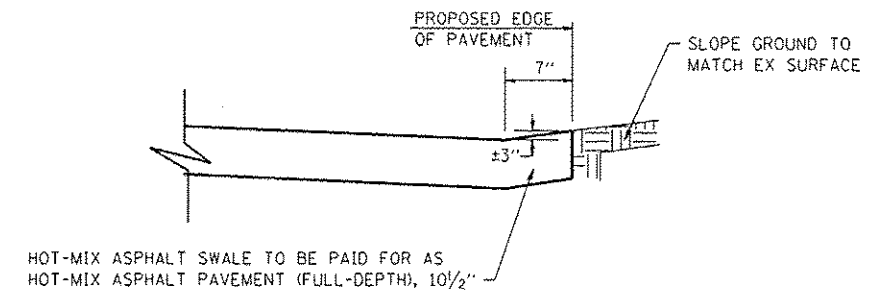


SECTION A-A
(NOT TO SCALE)

• SEE CROSS SECTIONS FOR SLOPE



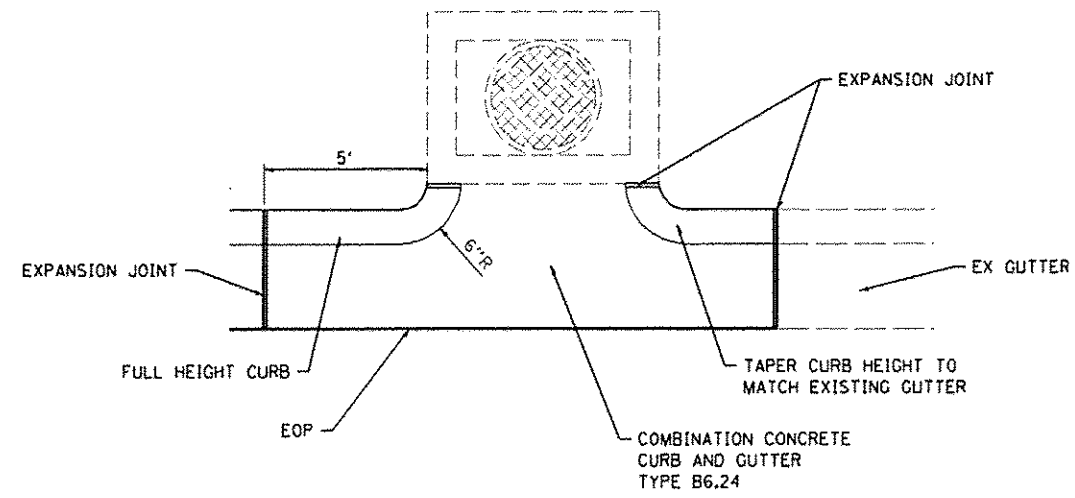
STREET SIGN DETAIL
(NOT TO SCALE)



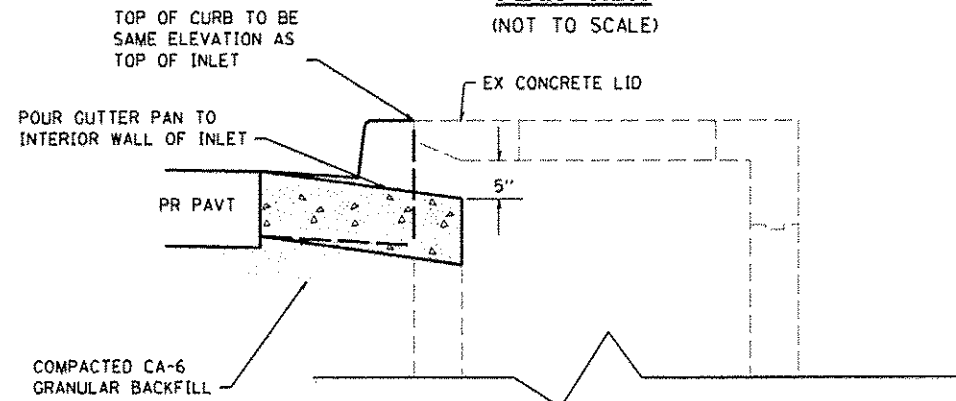
HOT-MIX ASPHALT (HMA) SWALE DETAIL
(NOT TO SCALE)
(STA. 40+65 RT TO STA. 41+25 RT)

- NOTES:
- WHITE LETTERS ON GREEN BACKGROUND (ALL DIMENSIONS IN INCHES)
 - ALL STREET NAME SIGNS SHALL BE DOUBLE FACED.

FILE NAME : 0811025-sh1-details.dgn	USER NAME : default PLOT TIME : 2/27/25 PM PLOT SCALE : 40,0000 / IN. PLOT DATE : 2/5/2014	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS	F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 23	CONTRACT NO. 97552	ILLINOIS FED. AID PROJECT
				SCALE: NTS	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.					

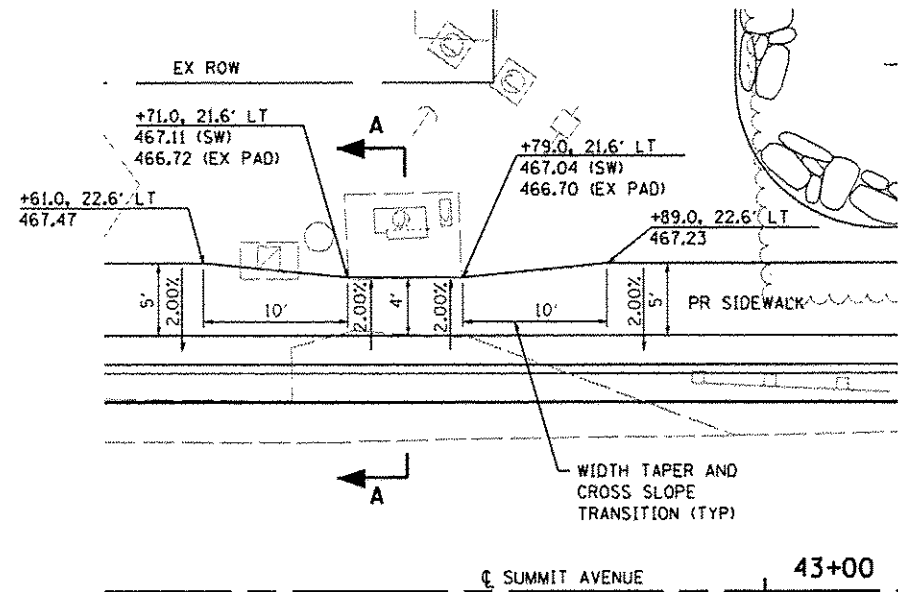


PLAN VIEW
(NOT TO SCALE)



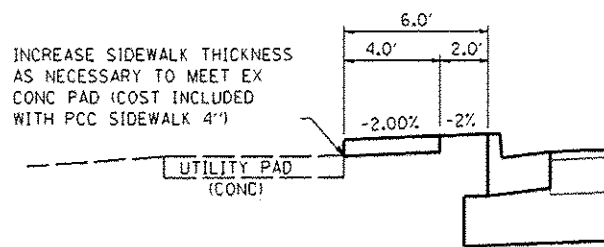
SIDE VIEW
(NOT TO SCALE)

GUTTER AT INLET DETAIL
(NOT TO SCALE)

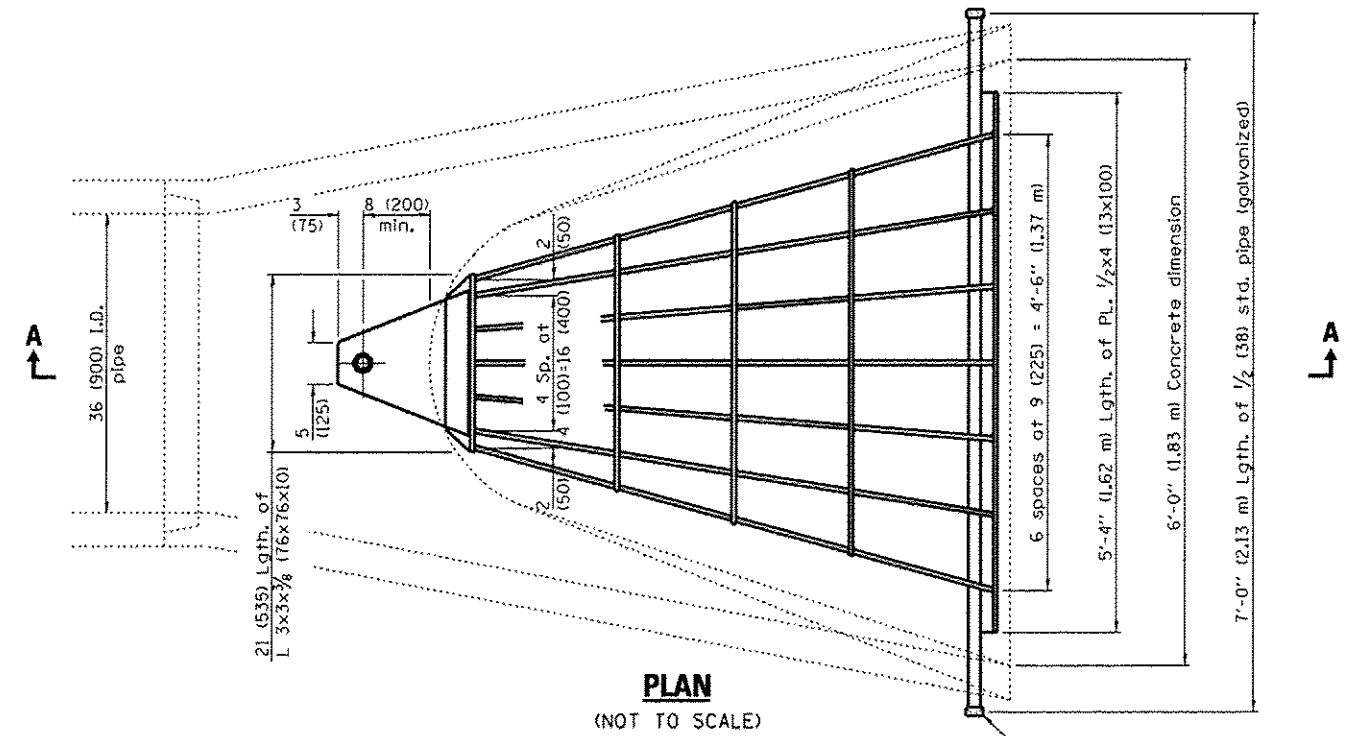


PLAN VIEW
(NOT TO SCALE)

UTILITY PAD /SIDEWALK DETAIL
(NOT TO SCALE)

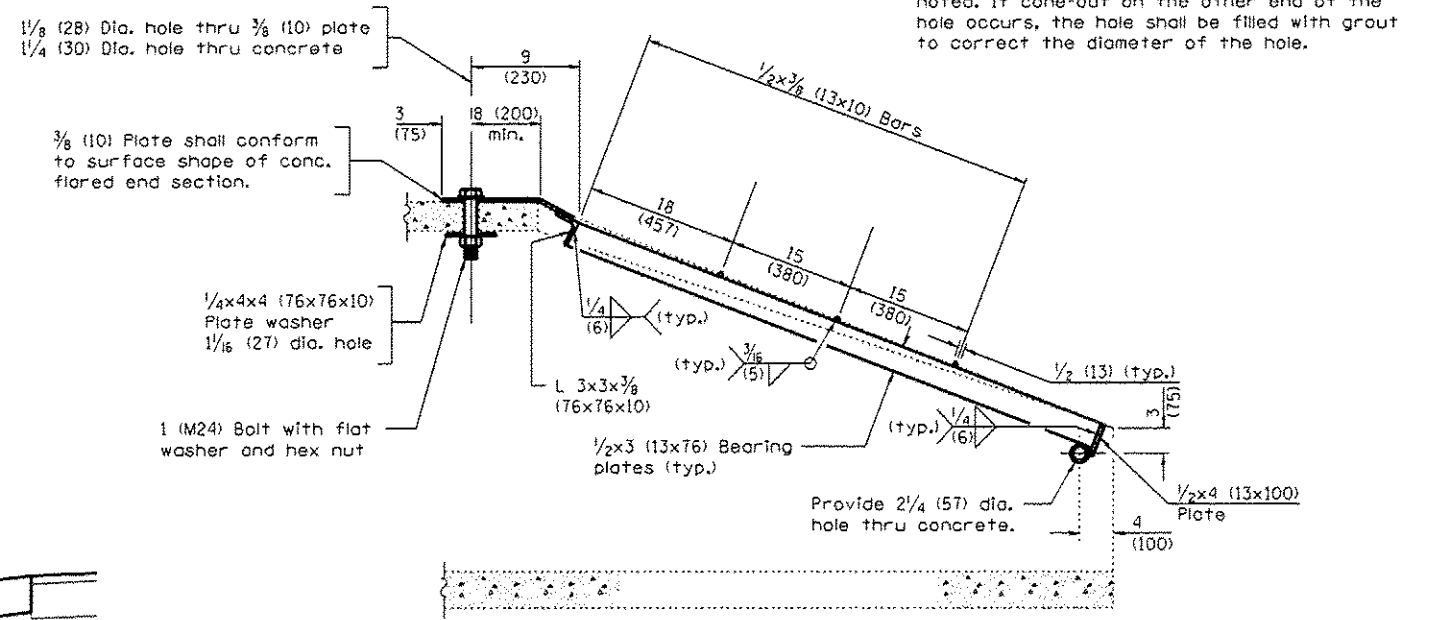


SECTION A-A
(NOT TO SCALE)



Approximate Quantity of steel = 280 lbs. (127 kg) (includes total quantity of grating, bolts, nuts, washers and steel pipe)

Galvanized 1/2 (38) std. pipe cap (typ.)



Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone-out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

SPECIAL GRATE NO. 1 DETAIL
(NOT TO SCALE)

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

FILE NAME • DB11005-sh1-detail.dgn

USER NAME • default
PLOT TIME • 8/22/10 AM
PLOT SCALE • 40.0000 / 1 IN.
PLOT DATE • 3/18/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

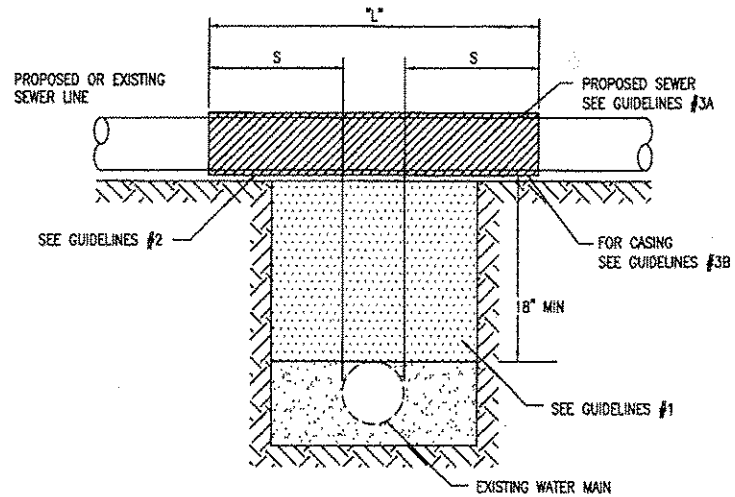
CONSTRUCTION DETAILS

SCALE: NTS SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	11-00095-00-BR	MADISON	32	24
CONTRACT NO. 97552				
ILLINOIS FED. AID PROJECT				

PROPOSED SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN

NOTE: COMPACTION REQUIREMENTS REFER TO ARTICLE 20-4



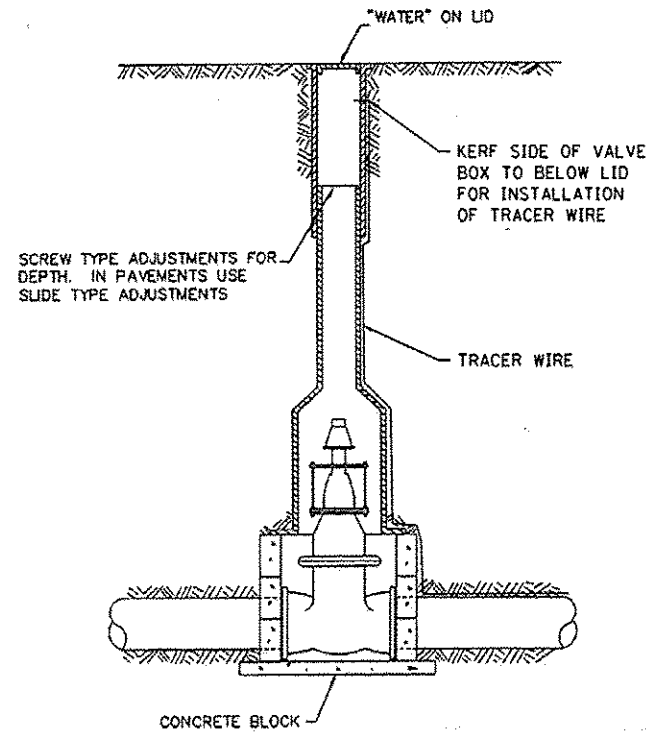
NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
3. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

WATER AND STORM SEWER SEPARATION

(NOT TO SCALE)

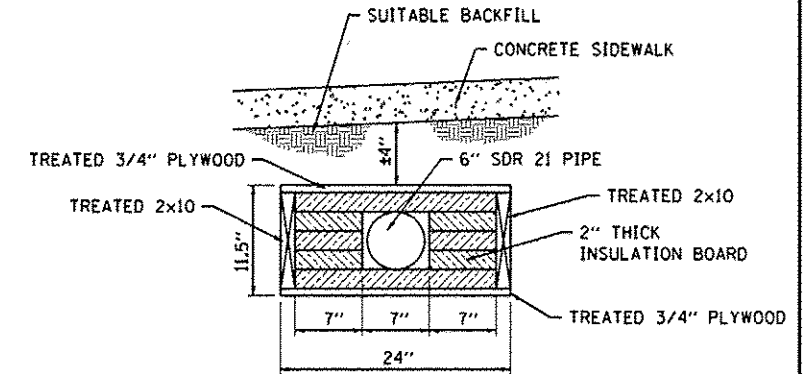


TYPICAL VALVE BOX INSTALLATION

(NOT TO SCALE)

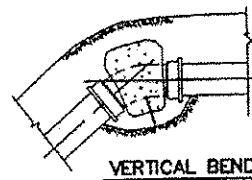
NOTES:

1. EXTEND OVER ENTIRE WIDTH OF BOX CULVERT.
2. COST INCLUDED WITH WATER MAIN 6".
3. INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM MEETING ASTM C578, TYPE VI, 40 PSI COMPRESSIVE STRENGTH WITH 0.1% MAX WATER ABSORPTION.
4. OVERLAP ALL JOINTS AND USE MASTIC AT ALL JOINTS.

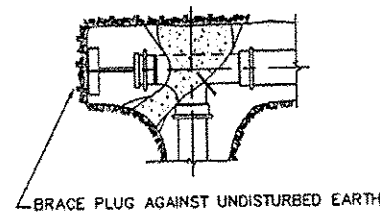


WATER LINE INSULATION AT CULVERT

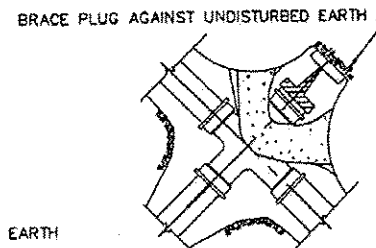
(NOT TO SCALE)



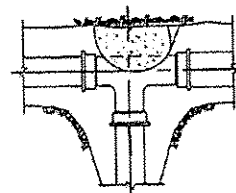
VERTICAL BEND



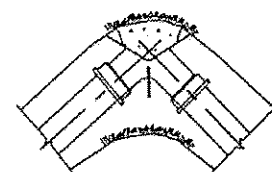
PLUGGED TEE



PLUGGED CROSS



TEE

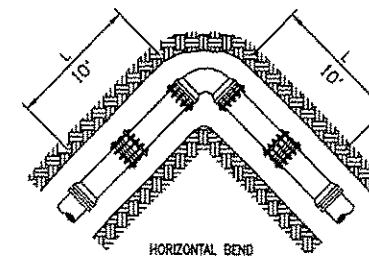


90° ELBOW

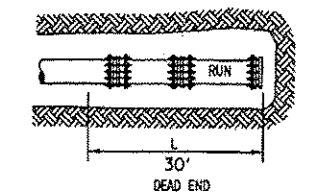
NOTE: ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH. ARROWS INDICATE DIRECTION OF THRUST. ALL BLOCKS TO BE 3000 P.S.I. CONCRETE. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATIONS

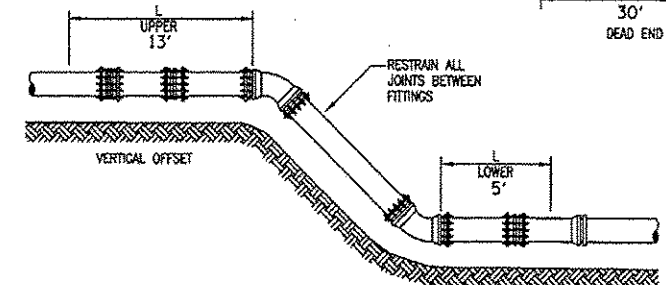
(NOT TO SCALE)



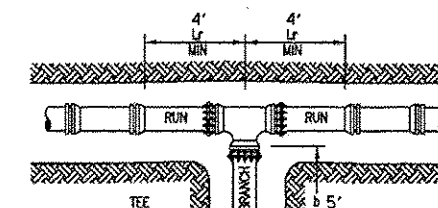
HORIZONTAL BEND



ALL JOINTS WITHIN LENGTH "L" OF FITTING MUST BE RESTRAINED



VERTICAL OFFSET



TEE

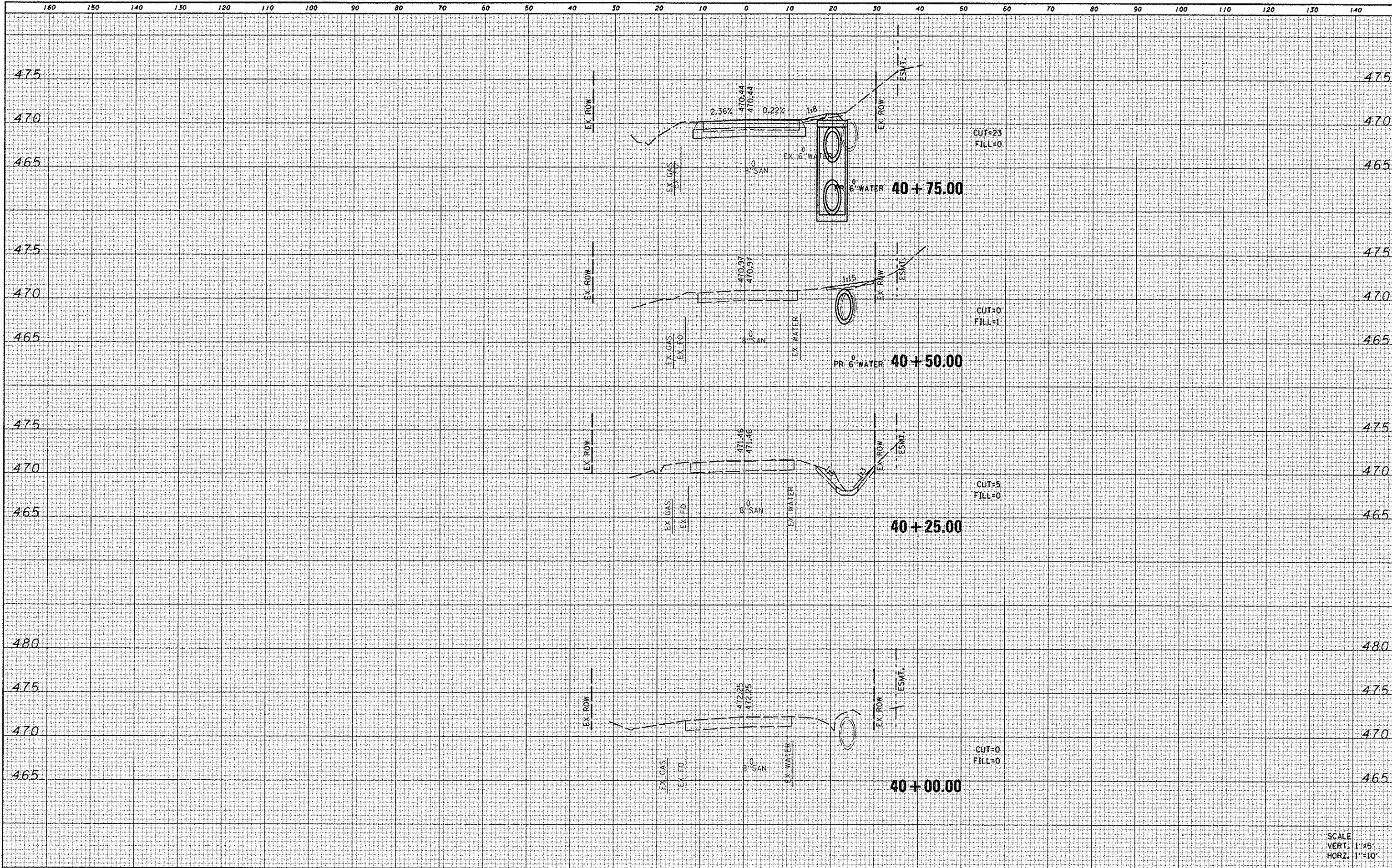
RESTRAINING GLAND RESTRAINT

(NOT TO SCALE)

FILE NAME * 0811005-shr-detail.dgn	USER NAME * default PLOT TIME * 2:27:32 PM PLOT SCALE * 40.0000 / IN. PLOT DATE * 3/5/2014	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS		F.A. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 25	CONTRACT NO. 97552
					SCALE: NTS	SHEET NO. 3 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
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CHECKED	
DATE	

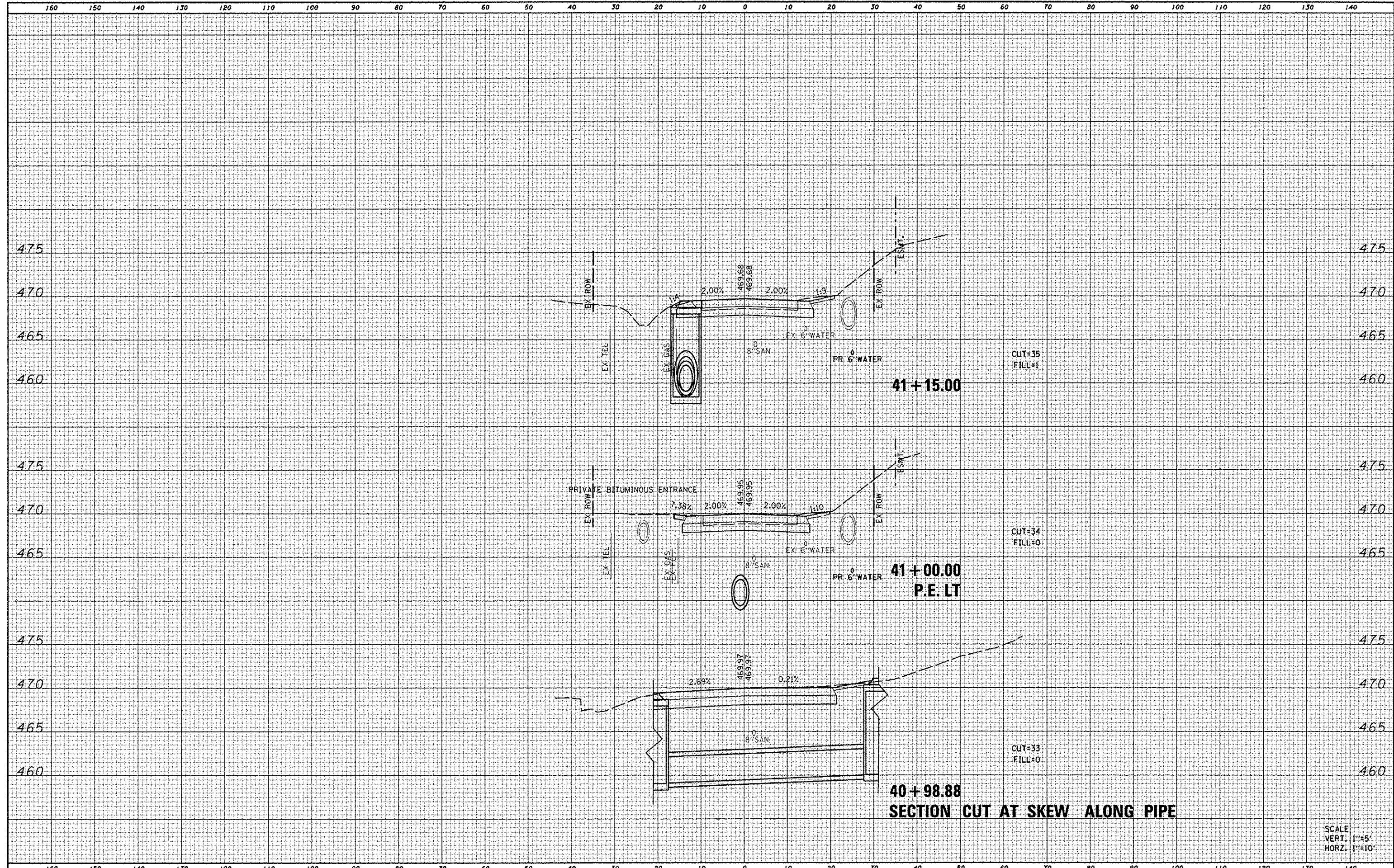


SCALE
VERT. 1"=5'
HORIZ. 1"=10'

FILE NAME 0811005-sht-ssht.dgn	USER NAME default	DESIGNED -	REVISÉD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 26	
	PLOT TIME 2:31:10 PM	DRAWN -	REVISÉD -			SCALE:	SHEET 1	OF 7 SHEETS	STA. 40+00.00	TO STA. 40+75.00	CONTRACT NO. 97552
	PLOT SCALE 20.0000 / IN.	CHECKED -	REVISÉD -			[ILLINOIS] FED. AID PROJECT					
	PLOT DATE 3/5/2014	DATE -	REVISÉD -								

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

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

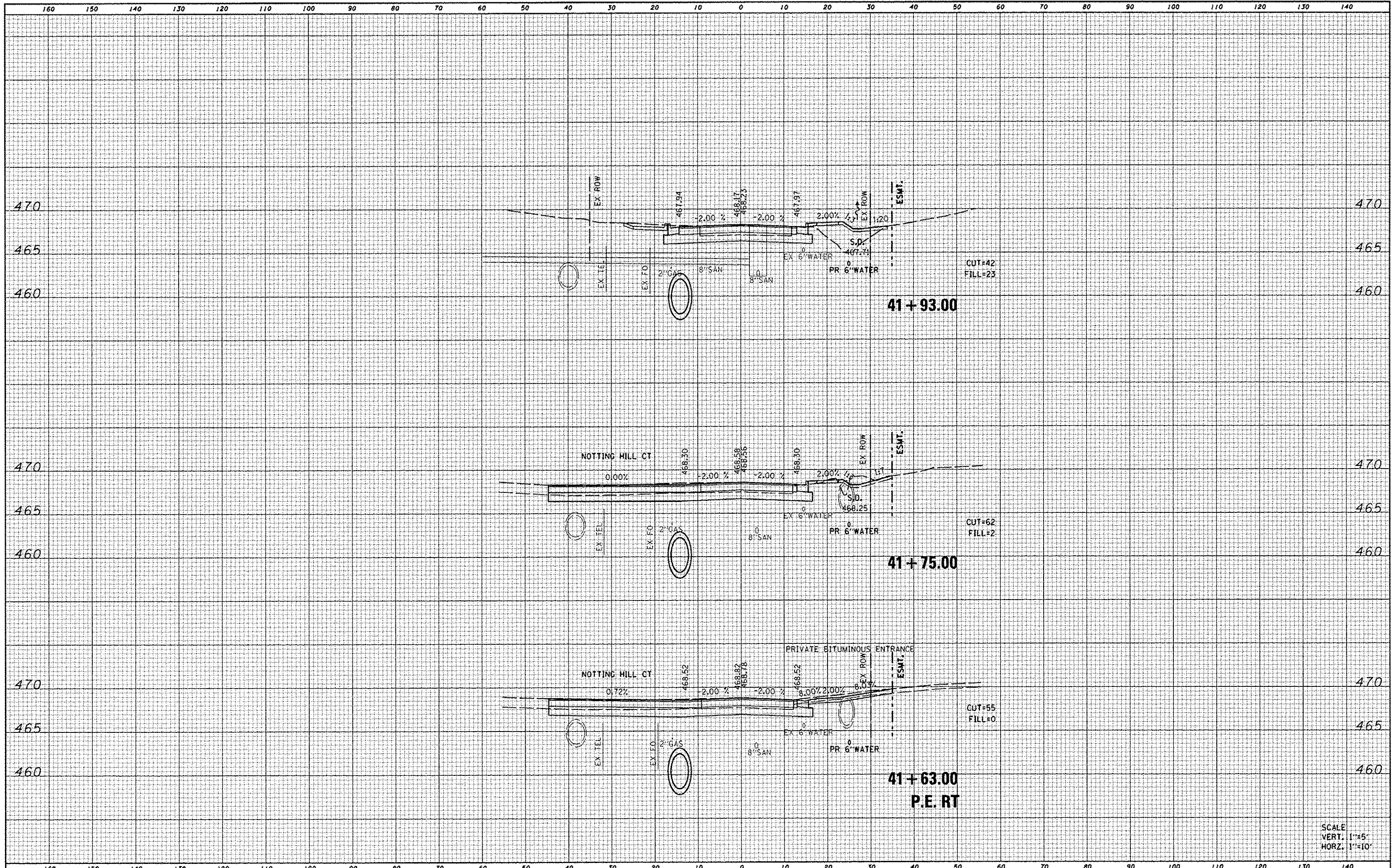


SCALE
VERT. 1"=5'
HORZ. 1"=10'

FILE NAME : DB11005-shr-ssht.dgn	USER NAME : default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: SHEET 2 OF 7 SHEETS STA. 40+98.88 TO STA. 41+5.00	F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 27	
	PLOT TIME : 2:20:21 PM	DRAWN -	REVISED -			CONTRACT NO. 97552		ILLINOIS FED. AID PROJECT			
	PLOT SCALE : 20.0000' / IN.	CHECKED -	REVISED -								
	PLOT DATE : 7/5/2014	DATE -	REVISED -								

DATE	
BY	
FINISHED	
SURVEYED	
NOTED	
PLOTTED	
TEMPERATURE	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL	
SURVEYED	
NOTED	
PLOTTED	
TEMPERATURE	
NOTE BOOK	
NO.	



SCALE
VERT. 1"=5'
HORZ. 1"=10'

FILE NAME :
DB11005-sh1-xasht.dgn

USER NAME : default	DESIGNED -	REVISED -
PLOT TIME : 2:29:17 PM	DRAWN -	REVISED -
PLOT SCALE : 20.0000 / IN.	CHECKED -	REVISED -
PLOT DATE : 3/5/2014	DATE -	REVISED -

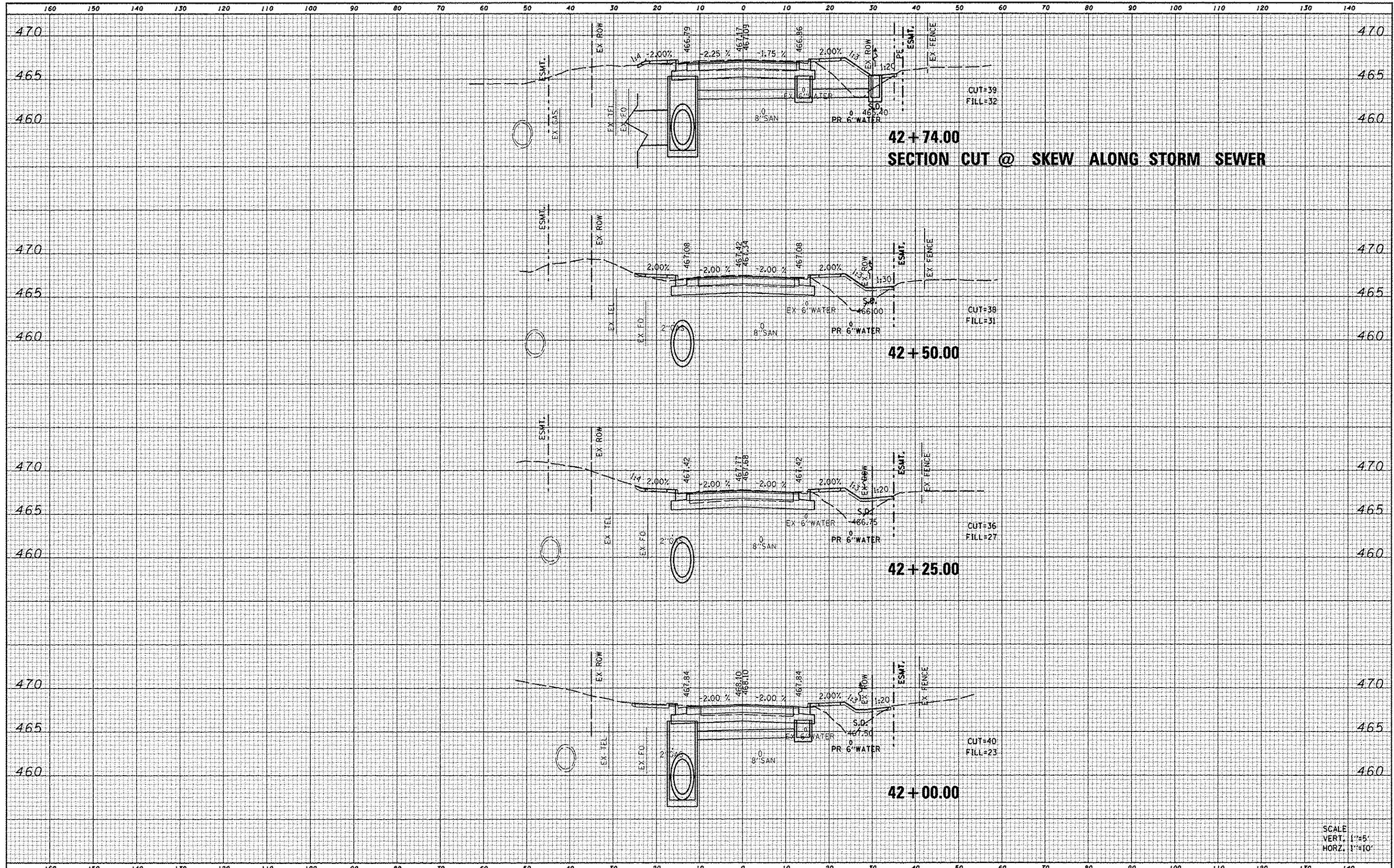
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SCALE: SHEET 4 OF 7 SHEETS STA. 41+63.00 TO STA. 41+93.00

F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 29
CONTRACT NO. 97552			ILLINOIS FED. AID PROJECT	

BT	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CREATED	
NO.	

BT	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CREATED	
NO.	



42+74.00
SECTION CUT @ SKEW ALONG STORM SEWER

42+50.00

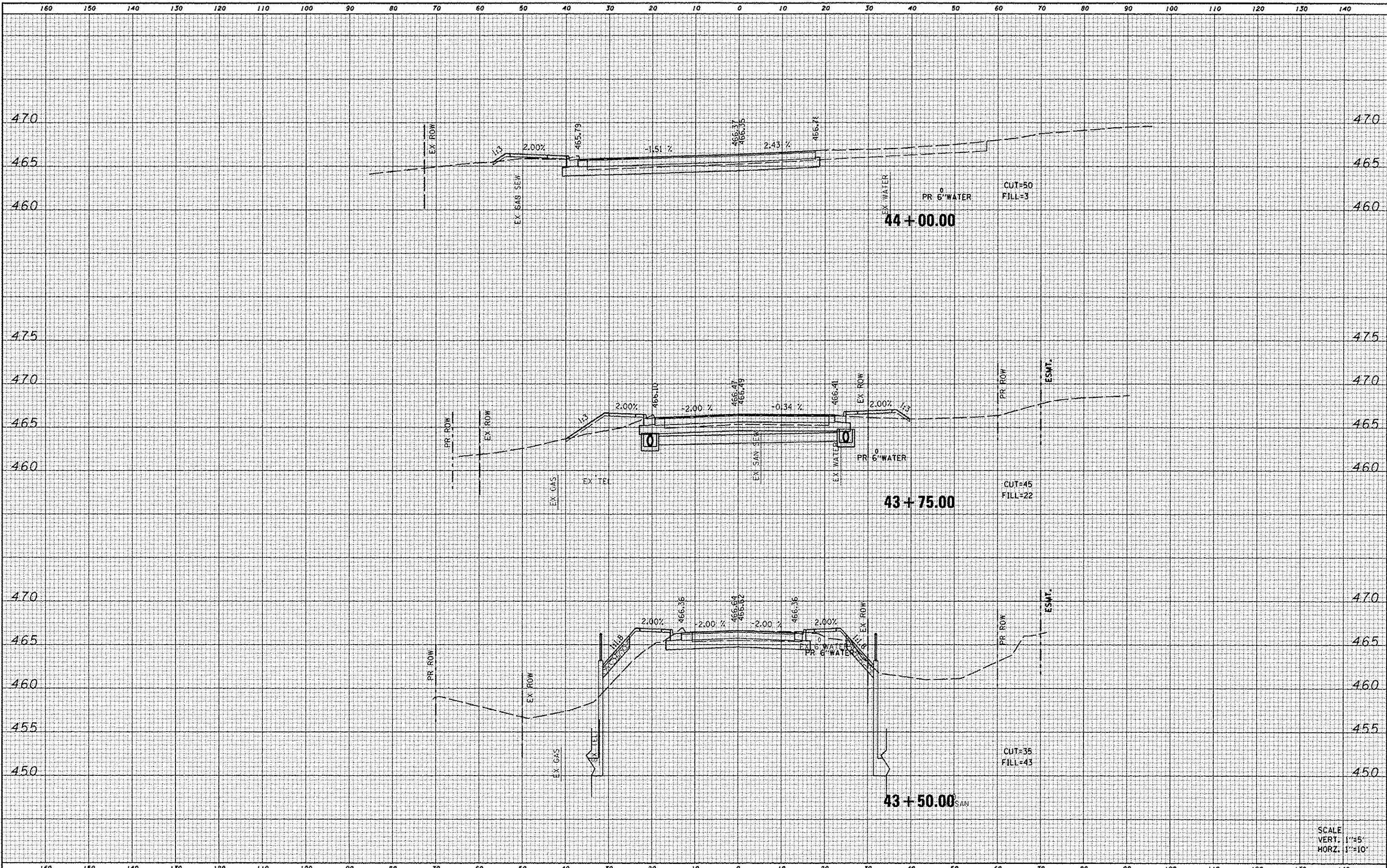
42+25.00

42+00.00

SCALE
VERT. 1"=4'
HORZ. 1"=40'

DATE	
BY	
REVIEWED	
SURVEY	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
REVIEWED	
SURVEY	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	



SCALE
 VERT. 1"=5'
 HORZ. 1"=10'

FILE NAME 0811005-shr-ssh1.dgn	USER NAME default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: SHEET 7 OF 7 SHEETS STA. 43+50.00 TO STA. 44+00.00	F.A.U. RTE. 9133	SECTION 11-00095-00-BR	COUNTY MADISON	TOTAL SHEETS 32	SHEET NO. 32	
	PLOT TIME 2/3/2014 2:30:42 PM	DRAWN -	REVISED -								
	PLOT SCALE 20.0000 / IN.	CHECKED -	REVISED -								
	PLOT DATE 3/5/2014	DATE -	REVISED -								

ILLINOIS FED. AID PROJECT