

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	1
		ILLINOIS	CONTRACT NO. 97583	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

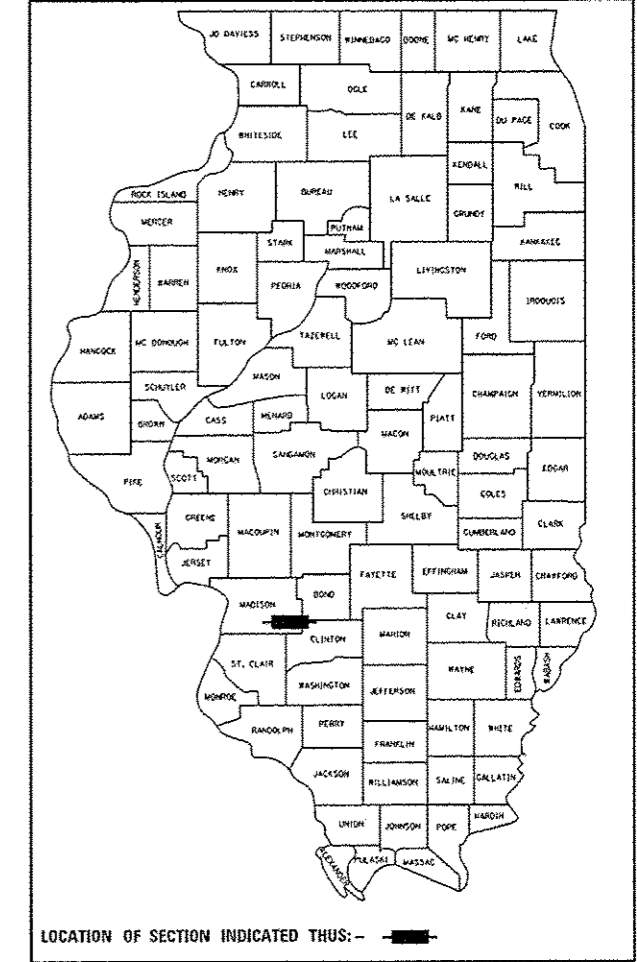
**PROPOSED  
HIGHWAY PLANS**

CITY OF HIGHLAND  
IL 143 (FAP 789) AND KOEPFLI LANE/TROXLER AVE (FAU 8841)  
INTERSECTION IMPROVEMENTS  
SECTION: 12-00066-01-WR  
MADISON COUNTY  
PROJECT: CMM 5011 (375)

C-98-354-12

**INDEX OF SHEETS**

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1	COVER SHEET
2-3	HIGHWAY STANDARDS AND GENERAL NOTES
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32-33	SOIL BORING LOGS
34-35	CAST IN PLACE CULVERT DETAILS
36-45	CROSS SECTIONS

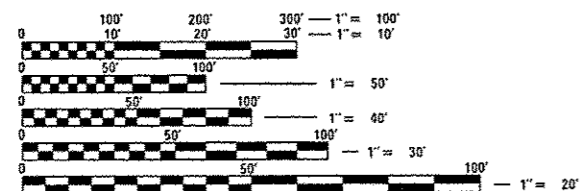


**DESIGN DESIGNATION**

**IL 143**  
ROADWAY CLASSIFICATION = PRINCIPAL ARTERIAL  
DESIGN SPEED = 35 MPH  
CURRENT ADT = 15,500  
DESIGN YEAR ADT (2034) = 19,590

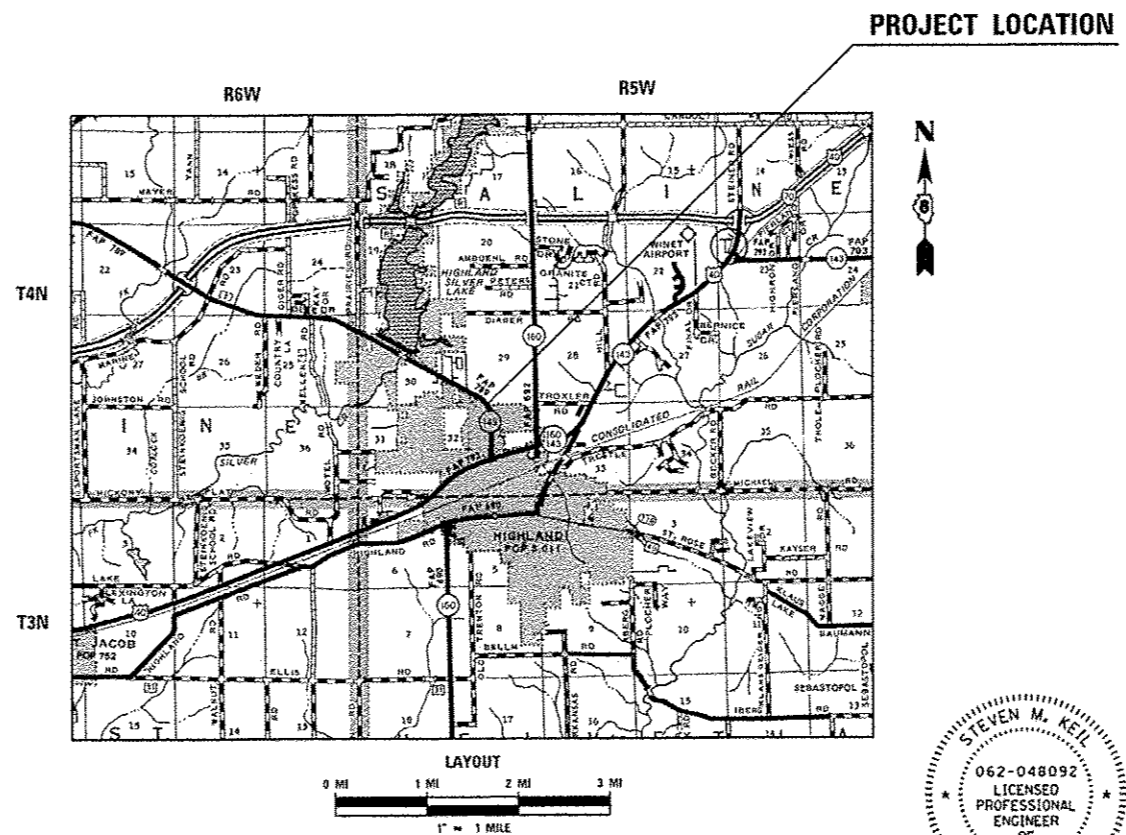
**KOEPFLI LANE**  
ROADWAY CLASSIFICATION = MINOR ARTERIAL  
DESIGN SPEED = 35 MPH  
CURRENT ADT = 9,999  
DESIGN YEAR ADT (2034) = 13,320

**TROXLER AVENUE**  
ROADWAY CLASSIFICATION = MINOR ARTERIAL  
DESIGN SPEED = 35 MPH  
CURRENT ADT = 1,280  
DESIGN YEAR ADT (2034) = 1,850

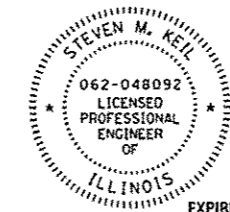


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



GROSS LENGTH = 900 FT. = 0.17 MILE  
NET LENGTH = 900 FT. = 0.17 MILE



*Steven M. Keil* 2/3/15  
STEVEN M. KEIL DATE



COLLINSVILLE 100 Lantz 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 1660  
St. Louis, MO 63101  
tel 314.589.8381

www.oatesassociates.com

ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	Feb. 2, 2015 <i>Rich J. Frey</i> MAYOR PRO TEM
PASSED	2-19-15 <i>[Signature]</i> DISTRICT ENGINEER OF PROJECT IMPLEMENTATION
RELEASING FOR BID BASED ON LIMITED REVIEW	2-19-15 <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION #5 ENGINEER

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OF THE STATE OF ILLINOIS**

**HIGHWAY STANDARDS**

**GENERAL NOTES**

- 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
- 420001-08 PAVEMENT JOINTS
- 420101-05 24' (7.2 m) JOINTED PCC PAVEMENT
- 424001-08 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424011-02 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424016-02 MID BLOCK CURB RAMPS FOR SIDEWALKS
- 424031-01 MEDIAN PEDESTRIAN CROSSINGS
- 442201-03 CLASS C AND D PATCHES
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542606-02 REINFORCED CONCRETE PIPE TEE
- 602301-04 INLET - TYPE A
- 602306-03 INLET - TYPE B
- 602601-03 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-04 FRAME AND LIDS TYPE 1
- 604006-05 FRAME AND GRATE TYPE 3
- 604011-05 FRAME AND GRATE TYPE 3V
- 606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
- 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720016-03 MAST ARM MOUNTED STREET NAME SIGNS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782001 PRISMATIC CURB REFLECTORS
- 814001-03 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 838001 BREAKAWAY DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 876001-03 PEDESTRIAN PUSH BUTTON POST
- 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- 878001-10 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

**UTILITIES**

1. ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
2. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

CHARTER COMMUNICATIONS (COMMUNICATIONS)  
 GARY WARREN  
 4767 SIGNATURE INDUSTRIAL DRIVE  
 EDWARDSVILLE, IL 62025  
 (618) 779-4179

VERIZON COMMUNICATIONS (FRONTIER) (TELEPHONE)  
 RON BISHOP  
 111 EAST STATE STREET  
 MASCOUTAH, IL 62258  
 (618) 566-9815

CITY OF HIGHLAND (WATER, SEWER & ELECTRIC)  
 GEORGE STRAM (ELECTRIC)  
 (618) 654-7511  
 RUSS PARKER (WATER & SEWER)  
 (618) 654-5416  
 2610 PLAZA DRIVE  
 HIGHLAND, IL 62249

PEG BANDWIDTH IL (COMMUNICATIONS)  
 BARRY PHILLIPS  
 8327 KNOXVILLE AVENUE  
 LOT 62  
 PEORIA, IL 61615  
 (918) 688-4168

**GENERAL**

3. 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.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
5. THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
6. 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.
7. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
8. 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.
9. 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](http://WWW.AGR.STATE.IL.US/EAB).
10. THE CONTRACTOR SHALL BENCH THE PROPOSED EMBANKMENT INTO THE EXISTING SLOPES TO THE SATISFACTION OF 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 EARTH EXCAVATION.
11. 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.
12. ALL EXISTING ROADWAY FEATURES INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, FENCING, RETAINING WALLS, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NO SPECIFIC PAY ITEM, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND THE COST OF THIS REMOVAL WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

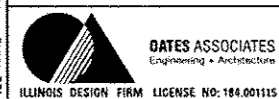
**PAVING**

13. THE COMMERCIAL ENTRANCE AT STA. 309+64 ON IL 143 SHALL BE CONSTRUCTED IN TWO STAGES, ONE HALF AT A TIME TO ALLOW FOR CONTINUAL USE OF THE ENTRANCE THROUGHOUT CONSTRUCTION.

**DRAINAGE**

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.

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USER NAME: brian.hack	DESIGNED: -	REVISED: -
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PLOT DATE: 2/6/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HIGHWAY STANDARDS AND  
GENERAL NOTES**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	2
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

16. ALL TYPE 3 FRAMES AND GRATES SHALL BE FURNISHED BY THE CONTRACTOR WITH OPEN CURB BOXES. SEE HIGHWAY STANDARD 604006 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.

**PAVEMENT MARKING**

19. THE CONTRACTOR SHALL APPLY SHORT TERM PAVEMENT MARKINGS TO THE MILLED, PRIMED AND EACH HOT-MIX ASPHALT LAYER. 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 SHORT TERM PAVEMENT MARKINGS SHALL BE REMOVED AND SEPARATE PAYMENT WILL BE MADE FOR WORK ZONE PAVEMENT MARKING REMOVAL.
20. 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.


**MISCELLANEOUS**

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	50	TON
LOCATING UNDERGROUND CABLE	500	FOOT

**ABBREVIATIONS & SYMBOLS**

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


 FLARED END SECTION

CONSTR	CONSTRUCTION
CP	CONTROL POINT
ESMT	EASEMENT
ELEV	ELEVATION
PERM	PERMANENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
TYP	TYPICAL
W	WIDTH

**COMMITMENTS**

1. 2758 TROXLER WAY  
BLAKE SCHRUMPF  
PRIOR TO CONSTRUCTION OF THE COMMERCIAL ENTRANCE AT STA. 309+64 THE CONTRACTOR AND THE ENGINEER WILL DISCUSS THE ENTRANCE CONSTRUCTION WITH THE PROPERTY OWNER.
2. 2762 TROXLER WAY  
JAMES MCDERMOTT  
PRIOR TO CONSTRUCTION OF THE COMMERCIAL ENTRANCE AT STA. 309+64 THE CONTRACTOR AND THE ENGINEER WILL DISCUSS THE ENTRANCE CONSTRUCTION WITH THE PROPERTY OWNER.

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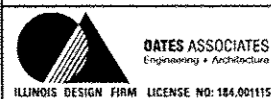
 <b>DATES ASSOCIATES</b> <small>Engineering &amp; Architecture</small> ILLINOIS DESIGN FIRM LICENSE NO: 184-00115	USER NAME = brian.hall	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>HIGHWAY STANDARDS AND</b> <b>GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000' / 1" =	DRAWN -	REVISED -			789	12-00066-01-WR	MADISON	45	3
PLOT DATE = 2/10/2015	CHECKED -	REVISED -	CONTRACT NO. 97583							
DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
						SCALE:	SHEET 2 OF 2 SHEETS		STA.	TO STA.

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	25
		20200100	EARTH EXCAVATION	CU YD	1,325
		• 20700220	POROUS GRANULAR EMBANKMENT	CU YD	82
		• 20800150	TRENCH BACKFILL	CU YD	56
		• 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3,049
		25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	333
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	127
		• 28000305	TEMPORARY DITCH CHECKS	FOOT	45
		28000400	PERIMETER EROSION BARRIER	FOOT	147
		28000500	INLET AND PIPE PROTECTION	EACH	8
		28100107	STONE RIPRAP, CLASS A4	SO YD	186
		28200200	FILTER FABRIC	SO YD	186
		31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SO YD	715
		31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SO YD	1,616

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		35100500	AGGREGATE BASE COURSE, TYPE A 6"	SO YD	440
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50
		40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SO YD	597
		• 42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SO YD	564
		• 42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	272
		42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	3,816
		• 42400800	DETECTABLE WARNINGS	SO FT	151
		44000100	PAVEMENT REMOVAL	SO YD	307
		44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	488
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	769
		44000600	SIDEWALK REMOVAL	SO FT	3,219
		44003100	MEDIAN REMOVAL	SO FT	510
		44004250	PAVED SHOULDER REMOVAL	SO YD	207
		44200065	PAVEMENT PATCHING, TYPE II, 6 INCH	SO YD	12

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

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USER NAME: brian.hall	DESIGNED -	REVISED -
PLOT SCALE: 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE: 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 1 OF 5 SHEETS	STA. TO STA.
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F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 4
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		• 48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	310
		• 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
		• 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
		• 50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1
		• 50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1
		• 50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1
		• 50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1
		• 50105220	PIPE CULVERT REMOVAL	FOOT	193
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	11,110
		54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1
		54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1
		54003000	CONCRETE BOX CULVERTS	CU YD	59.5
		54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	12
		54010605	PRECAST CONCRETE BOX CULVERTS 6' X 5'	FOOT	24

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		• 542A1087	PIPE CULVERTS, CLASS A, TYPE 2 42"	FOOT	56
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
		54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	2
		54216200	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 12" RISER	EACH	2
		54248510	CONCRETE COLLAR	CU YD	2.3
		• 550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	11
		• 550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	437
		60100915	PIPE DRAINS 6"	FOOT	25
		• 60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
		60400105	FRAMES, TYPE 1	EACH	1
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	651
		60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	63
		60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	52
		• 60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	259

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

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USER NAME: brian.heit	DESIGNED: -	REVISED: -
PLOT SCALE: 1/8" = 1'-0"	DRAWN: -	REVISED: -
PLOT DATE: 2/6/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-0066-01-WR	MADISON	45	5
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	37.5
*		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
*		63200310	GUARDRAIL REMOVAL	FOOT	158
*		66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	90
*		66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
*		66900530	SOIL DISPOSAL ANALYSIS	EACH	1
		67100100	MOBILIZATION	L SUM	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	112
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,861
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	789
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1,409
		72000100	SIGN PANEL - TYPE 1	SO FT	87.1
*		72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	54.0
		72400710	RELOCATE SIGN PANEL - TYPE 1	SO FT	13.3

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		72900200	METAL POST - TYPE B	FOOT	126
		73000100	WOOD SIGN SUPPORT	FOOT	17
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	47
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	956
*		78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	44
*		78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	480
*		78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	326
*		78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	223
*		78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	735
*		78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	54
*		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16
*		78200300	PRISMATIC CURB REFLECTOR	EACH	11
*		78200410	GUARDRAIL MARKERS, TYPE A	EACH	2
*		78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

FILE NAME: I:\P\181254\station\CAD00\_Sheet\0818125-int-500.dgn



USER NAME: brianheil  
DESIGNED -  
DRAWN -  
PLOT SCALE: 1/8" = 1'-0"  
CHECKED -  
PLOT DATE: 2/19/2015  
DATE -  
REVISED -

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -  
REVISED -

REVISED -  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	6

CONTRACT NO. 97583  
ILLINOIS FED. AID PROJECT



SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		78300100	PAVEMENT MARKING REMOVAL	SQ FT	398
*		80300100	LOCATING UNDERGROUND CABLE	FOOT	500
•		81028190	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	48
•		81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	618
•		81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	11
•		81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	52
•		81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	31
•		81028380	UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	78
•		81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
•		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,889
•		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,931
•		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,797
•		87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,329
•		87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
•		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
•		87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
•	•	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
•	•	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
•	•	88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
•		88200100	TRAFFIC SIGNAL BACKPLATE	EACH	2
•		88500100	INDUCTIVE LOOP DETECTOR	EACH	2
•	•	88600100	DETECTOR LOOP, TYPE I	FOOT	1,216
•		88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
•		89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	5
•		89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
•		89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
•		89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
•		89502200	MODIFY EXISTING CONTROLLER	EACH	1

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

FILE NAME: I:\P\18125\18125.dwg SHEET: 04 OF 05



USER NAME = brian.hall	DESIGNED -	REVISED -
PLDT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLDT DATE = 2/19/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

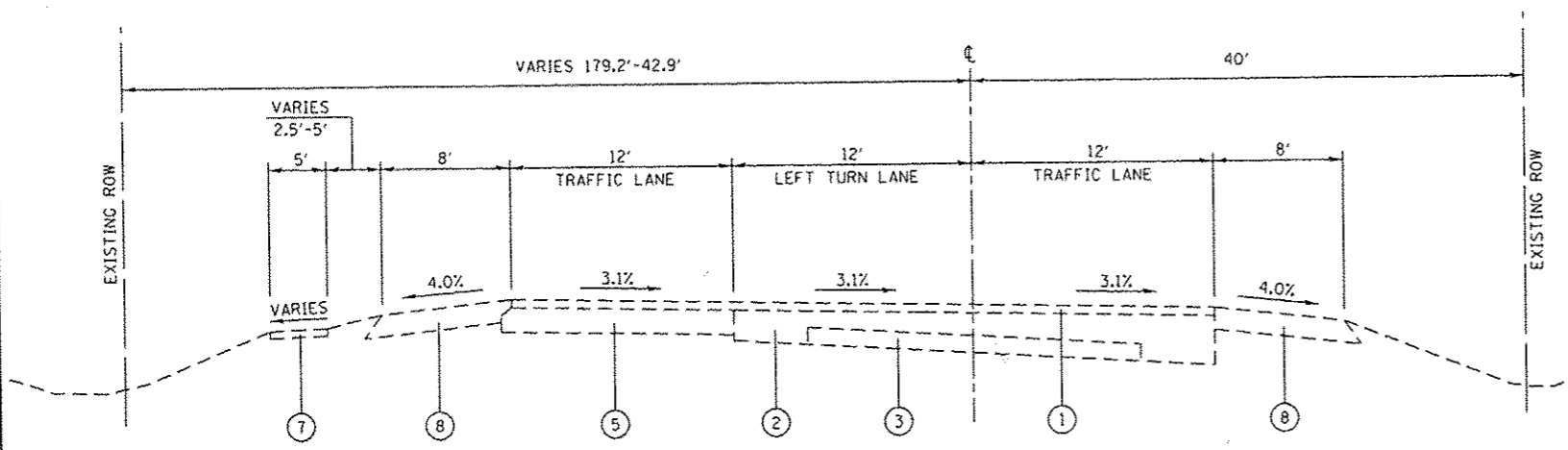
SCALE:	SHEET 4 OF 5 SHEETS	STA. TO STA.	F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 7
							CONTRACT NO. 97583
ILLINOIS FED. AID PROJECT							



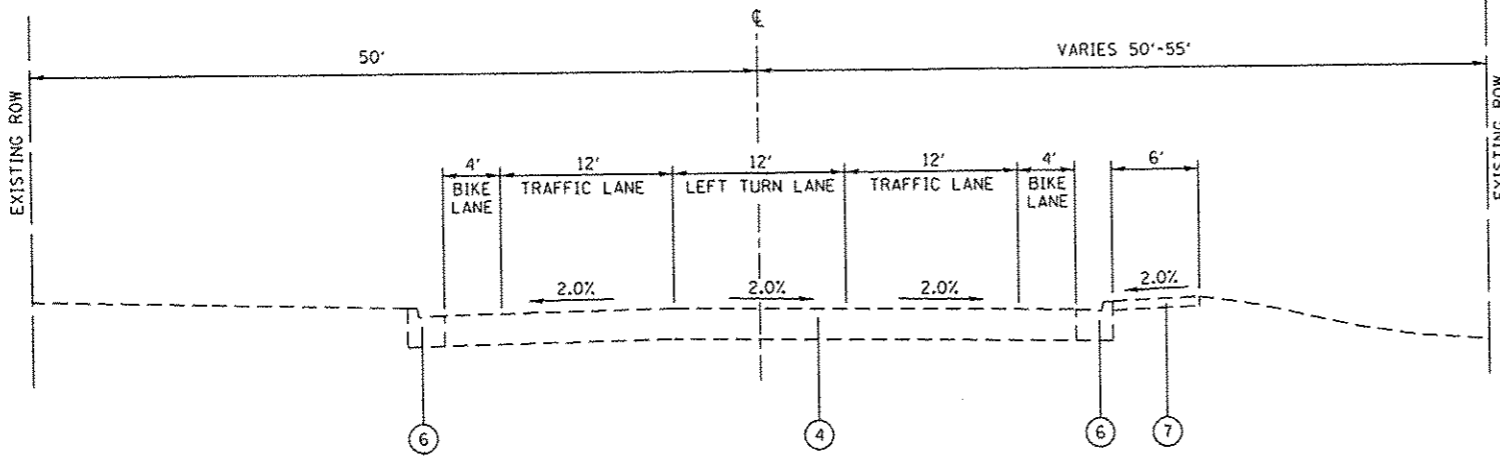


**TYPICAL SECTION LEGEND**

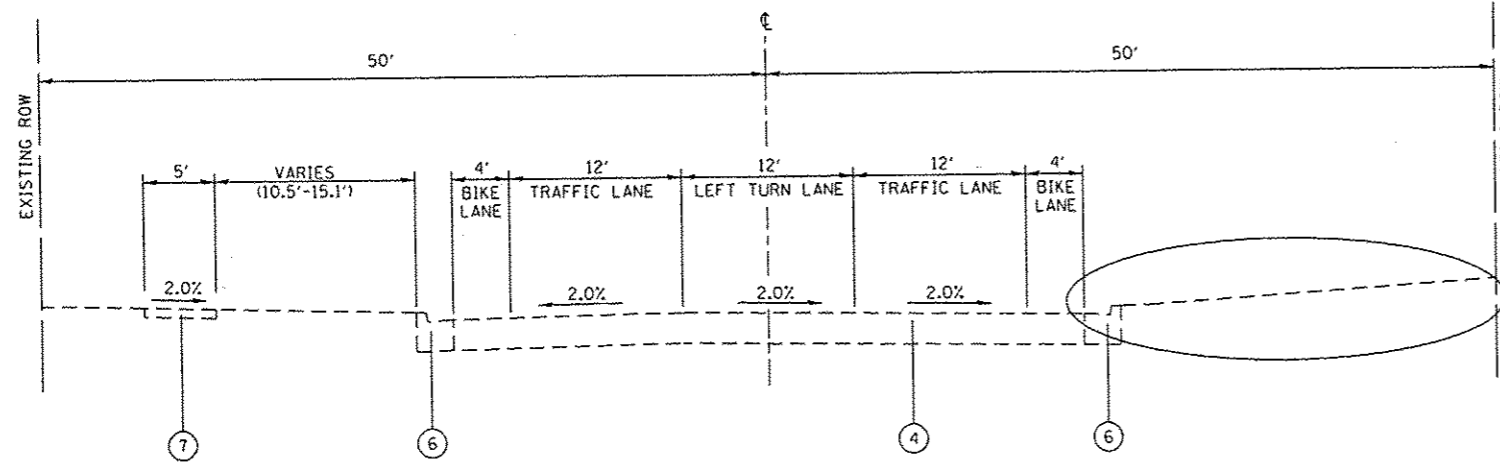
- ① EXISTING HMA SURFACE 1 1/2"
- ② EXISTING HMA BINDER
- ③ EXISTING CONCRETE PAVEMENT
- ④ EXISTING CONCRETE PAVEMENT 8"
- ⑤ EXISTING HMA BINDER 9 1/2"
- ⑥ EXISTING COMBINATION CCG TYPE B-6.24
- ⑦ EXISTING PCC SIDEWALK
- ⑧ EXISTING HMA SHOULDER
- ⑨ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ⑩ PROPOSED PCC PAVEMENT, 8" (JOINTED)
- ⑪ PROPOSED HMA PAVEMENT (FULL DEPTH), 11"
- ⑫ PROPOSED HMA SHOULDER, 8"
- ⑬ PROPOSED COMBINATION CCG TYPE B-6.24
- ⑭ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑮ PROPOSED PCC SIDEWALK, 4"
- ⑯ PROPOSED AGGREGATE BASE COURSE, TYPE A, 6"
- ⑰ BITUMINOUS MATERIALS PRIME COAT
- ⑱ PROPOSED HMA SURFACE COURSE, SPECIAL, 3"
- ⑲ LONGITUDINAL CONSTRUCTION JOINT, SEE HIGHWAY STANDARD 420001
- ⑳ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C
- ㉑ PROPOSED TOPSOIL FURNISH AND PLACE, 4"



**EXISTING IL ROUTE 143**  
STA. 307+12.82 TO STA. 312+64.21

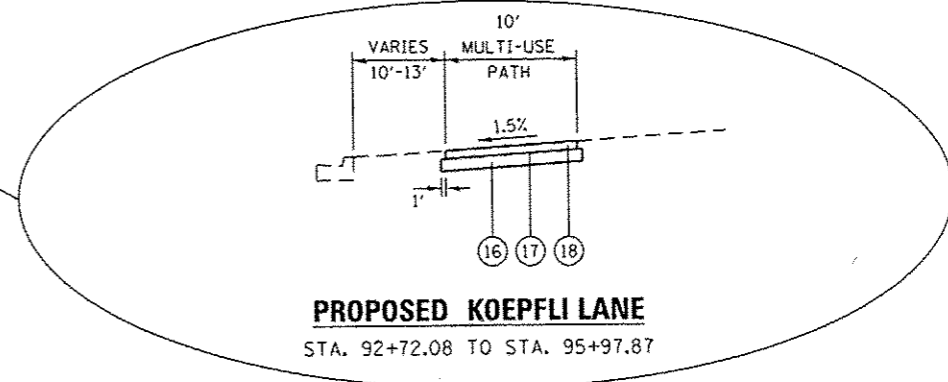


**EXISTING TROXLER AVENUE**  
STA. 96+35.88 TO STA. 100+50.00



**EXISTING KOEPFLI LANE**  
STA. 92+72.08 TO STA. 96+35.88

STRUCTURAL DESIGN TRAFFIC:	YEAR:	2024
PV = 17,081	SU = 0	MU = 349
ROAD/STREET CLASSIFICATION:	CLASS:	II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P = 50%	S = 50%	M = 50%
TRAFFIC FACTOR:	ACTUAL =	1.37
	MIN =	3.17
PG GRADE:	BINDER:	PG 64-22
	SURFACE:	PG 64-22
STRUCTURAL SUPPORT RATING:		
	SSR =	POOR



**PROPOSED KOEPFLI LANE**  
STA. 92+72.08 TO STA. 95+97.87

FILE NAME *	USER NAME *	DESIGNED -	REVISED -
H:\P\18125\Microstation\CAOD Sheets\081825-sh-typical.dgn	brian.hall	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1' @ 1/8" = 1'		CHECKED -	REVISED -
PLOT DATE = 2/6/2015		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

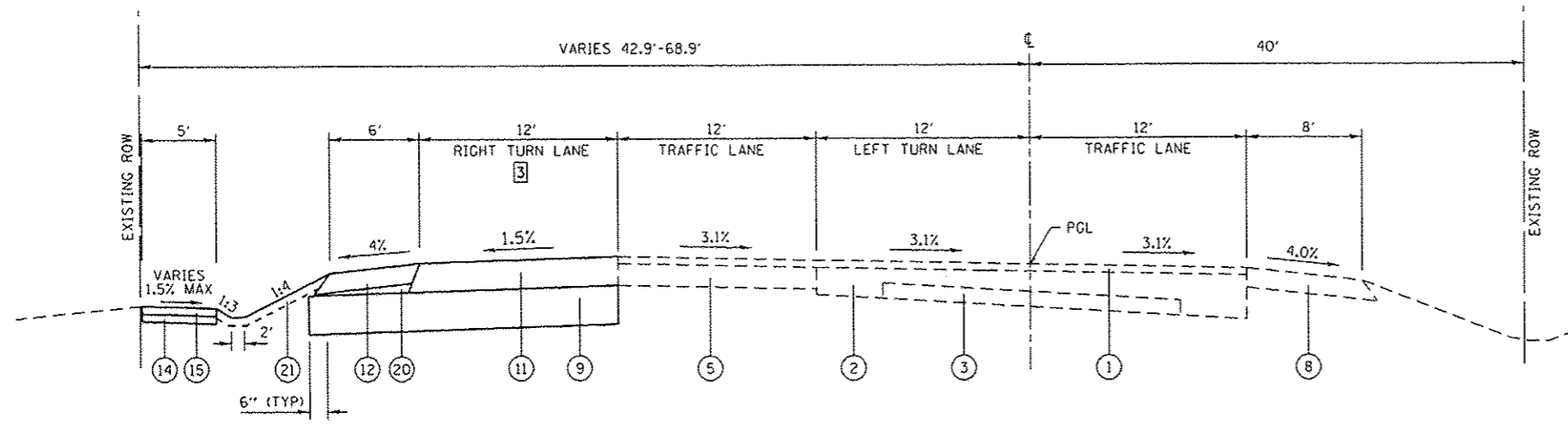
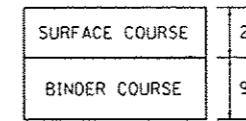
<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	9
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

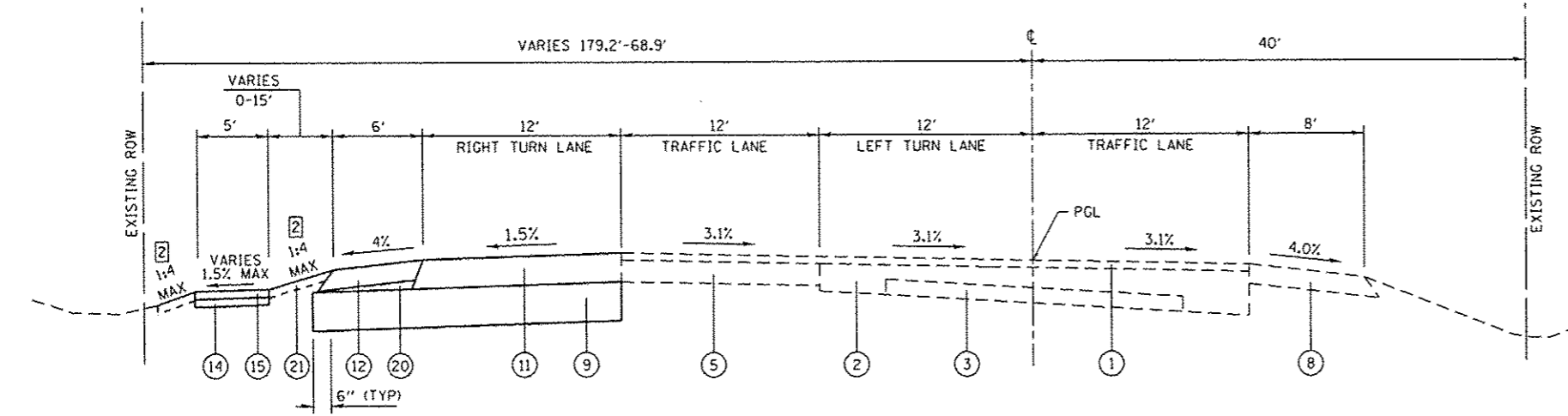
**TYPICAL SECTION LEGEND**

- ① EXISTING HMA SURFACE 1 1/2"
- ② EXISTING HMA BINDER
- ③ EXISTING CONCRETE PAVEMENT
- ④ EXISTING CONCRETE PAVEMENT 8"
- ⑤ EXISTING HMA BINDER 9 1/2"
- ⑥ EXISTING COMBINATION CCG TYPE B-6.24
- ⑦ EXISTING PCC SIDEWALK
- ⑧ EXISTING HMA SHOULDER
- ⑨ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ⑩ PROPOSED PCC PAVEMENT, 8" (JOINTED)
- ⑪ PROPOSED HMA PAVEMENT (FULL DEPTH), 11"
- ⑫ PROPOSED HMA SHOULDER, 8"
- ⑬ PROPOSED COMBINATION CCG TYPE B-6.24
- ⑭ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- ⑮ PROPOSED PCC SIDEWALK, 4"
- ⑯ PROPOSED AGGREGATE BASE COURSE, TYPE A, 6"
- ⑰ BITUMINOUS MATERIALS PRIME COAT
- ⑱ PROPOSED HMA SURFACE COURSE, SPECIAL, 3"
- ⑲ LONGITUDINAL CONSTRUCTION JOINT, SEE HIGHWAY STANDARD 420001
- ⑳ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C
- ㉑ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

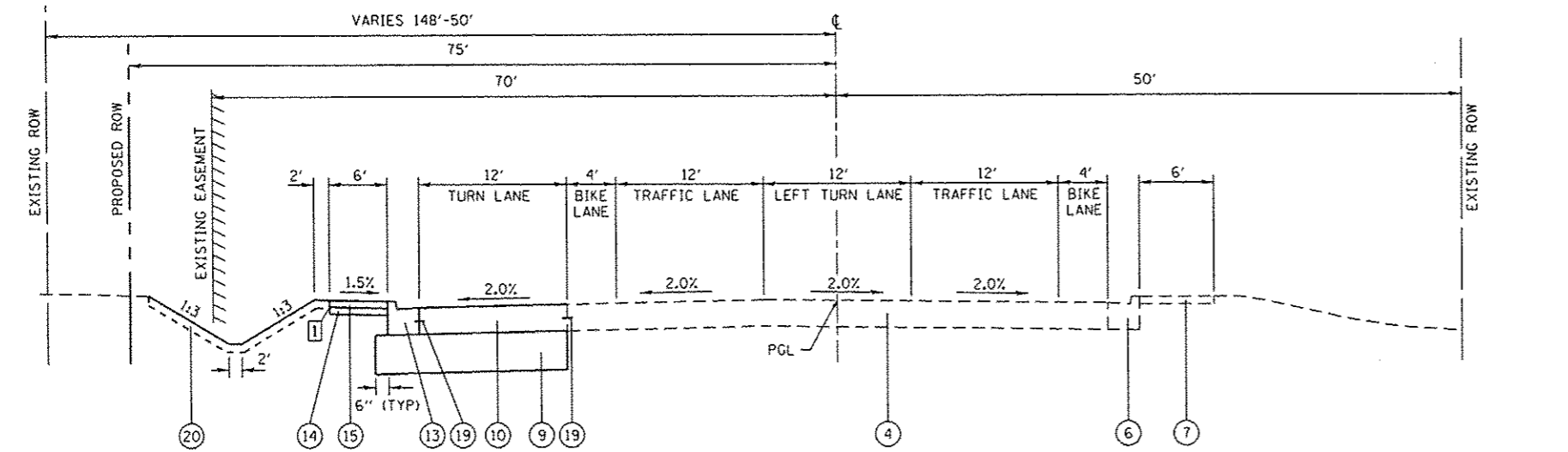
**FULL DEPTH PAVEMENT DETAIL**



**PROPOSED IL ROUTE 143**  
STA. 310+00.00 TO STA. 312+64.21



**PROPOSED IL ROUTE 143**  
STA. 307+13.34 TO STA. 310+00.00



**PROPOSED TROXLER AVENUE**  
STA. 96+63.63 TO STA. 99+95.24

- ① SIDEWALK INSTALLED STA. 96+63.63 TO STA. 97+12.36
- ② SEE CROSS SECTIONS FOR SIDE SLOPE
- ③ WIDTH VARIES FROM 12' TO 0' STA. 310+67.61 TO STA. 312+22.72

**MIXTURES TABLE**

MIXTURE USE	SURFACE	BINDER	SURFACE FOR MULTI-USE PATH	SHOULDER
THICKNESS	2"	9"	3"	8"
AC/PG	PG 64-22	PG 64-22	PG 58-22	PG 64-22
RAP % (MAX)	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=50	2.0% @ Ndes=30
MIX COMPOSITION	IL-9.5	IL-19.0	IL-9.5	
FRICTION AGG	MIXTURE "D"		MIXTURE "C"	BAM



**SIGN**

EXISTING		PROPOSED		MUTCD TYPE	DESCRIPTION	SIZE	SIGN PANEL T1 (SQ FT)	REMOV SIGN PANEL T1 (SQ FT)	RELOC SIGN PANEL T1 (SQ FT)	METAL POST TY B (FOOT)	WOOD SIN SUPPORT (FOOT)	
STATION	OFFSET	STATION	OFFSET									
IL 143												
		305+10	99' RT	R10-5	LEFT ON ARROW ONLY	24"x30"	5.0					
		305+25	31' RT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		305+25	31' RT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		305+45	13' LT	R10-5	LEFT ON ARROW ONLY	24"x30"	5.0					
		305+46	53' LT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		305+85	88' LT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		306+01	50' RT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		306+01	50' RT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		306+23	3' RT	R10-5	LEFT ON ARROW ONLY	24"x30"	5.0					
		306+47	50' LT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		306+47	50' LT	R10-3B	PUSH BUTTON	9"x12"	0.8					
		306+49	99' LT	R10-5	LEFT ON ARROW ONLY	24"x30"	5.0					
		308+37	121' LT	R5-1X-1	EXIT ONLY	24"x24"	4.0			13		
		309+50	49' LT	R5-1	DO NOT ENTER	36"x36"	9.0			16		
		309+50	49' LT	R5-1X-1	EXIT ONLY	24"x24"	4.0					
		309+55	65' LT	R5-1	DO NOT ENTER	36"x36"	9.0			16		
		309+55	65' LT	R5-1X-1	EXIT ONLY	24"x24"	4.0					
		310+67	39' LT	R3-1100	RIGHT TURN LANE	24"x24"	4.0			13		
305+10	99' RT				LEFT TURN YIELD	24"x30"		5.0				
305+10	99' RT				LEFT TURN YIELD	24"x30"		5.0				
305+10	99' RT				LEFT TURN YIELD	24"x30"		5.0				
305+10	99' RT				LEFT TURN YIELD	24"x30"		5.0				
306+73	85' LT				IL 143 STREET SIGN	8"x36"			2.0			
309+56	40' LT				STOP SIGN	30"x30"			6.3	14		
312+09	29' LT				35 MPH SIGN	24"x30"			5.0	14		
KOEPLI LANE/TROXLER AVENUE												
91+26	32' RT				CROSS WALK	30"x30"			7.0			
92+53	49' RT				END BICYCLE ROUTE	24"x18" 12"x4"			4.0			
92+55	28' RT				CROSS WALK & ARROW	30"x30" 10"x24"			8.0			
92+66	25' LT				CROSS WALK & ARROW	30"x30" 10"x24"			8.0			
94+15	27' LT				CROSS WALK	30"x30"			7.0			
		95+16	48' RT		DISMOUNT BIKES	12"x18"	1.5			13		
		98+00	39' LT	R5-1	DO NOT ENTER	36"x36"	9.0			14		
		98+07	39' LT	R5-1X-2	ENTER ONLY	28"x24"	4.7			13		
		99+97	28' LT	R3-1100	RIGHT TURN LANE	24"x24"	4.0				17	
		99+97	28' LT	R4-4	YIELD TO BIKES	36"x30"	7.5					
<b>TOTAL</b>							<b>87.1</b>	<b>54.0</b>	<b>13.3</b>	<b>126</b>	<b>17</b>	

**SIGN PANEL AND POST NOTES:**

- 4 IN. DIAMETER PVC SLEEVES SHALL BE PLACED AT ALL LOCATIONS WHERE SIGN POSTS WILL BE INSTALLED WITHIN THE LIMITS OF PROPOSED SIDEWALK. THE VOID SPACE BETWEEN THE POST AND THE SLEEVE SHALL BE FILLED WITH COLD MIX ASPHALT PATCHING MATERIAL.

**GUARDRAIL**

STATION	OFFSET	STATION	OFFSET	SPBGR TY A 6FT POSTS (FOOT)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOV (FOOT)	GUARDRAIL MKR TYPE A (EACH)	TERMINAL MARKER DA (EACH)
IL 143								
305+63	RT	307+04	RT			158		
306+18	41' RT	306+69	34' RT		1		1	1
306+69	34' RT	307+09	30' RT	37.5			1	
<b>TOTAL</b>				<b>37.5</b>	<b>1</b>	<b>158</b>	<b>2</b>	<b>1</b>

**EARTHWORK**

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)
IL 143					
305+90	312+64	735	555	410	145
KOEPLI LANE/TROXLER AVENUE					
92+73	99+95	590	445	265	180
<b>TOTAL</b>		<b>1,325</b>	<b>1,000</b>	<b>675</b>	<b>325</b>

**EARTHWORK NOTES:**

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

**BOX CULVERT**

STATION	SIZE (SPAN x HEIGHT)	SKEW	DESIGN FILL (FT)		POROUS GRAN EMBANK (CU YD)
			EDGE OF SHOULDER (MIN)	MAXIMUM	
IL 143					
305+90	6X4	N/A	1.0	1.0	82
307+03	6X4	NO SKEW	4.0	4.0	NONE
TROXLER AVENUE					
99+04	6X5	30°08'	4.0	4.0	NONE
<b>TOTAL</b>					<b>82</b>

**SEEDING**

STATION	STATION	OFFSET	TOPSOIL F & P 4 (SQ YD)	TEMP EROS CONTR SEED (LBS)	SEEDING CL 1A SPL (ACRE)
IL 143					
306+74	312+64	LT	1426	59	0.30
KOEPLI LANE/TROXLER AVENUE					
92+55	96+06	RT	570	24	0.15
96+38	99+95	LT	1053	44	0.25
<b>TOTAL</b>			<b>3,049</b>	<b>127</b>	<b>0.70</b>

**SEEDING NOTES:**

- BASED ON AN APPLICATION RATE OF 100 LBS/AC AND ASSUMING 2 APPLICATIONS.

FILE NAME: J:\P\10125\K\erstation\CADD\_Sheet\10125\sh111.ctb



USER NAME: brian.hel	DESIGNED: -	REVISED: -
PLOT SCALE: 40,0000' / in.	DRAWN: -	REVISED: -
PLOT DATE: 2/6/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SCHEDULES OF QUANTITIES**

SCALE:	SHEET 2 OF 3 SHEETS	STA. TO STA.	F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 12
						ILLINOIS FED. AID PROJECT CONTRACT NO. 97583	

**PAVEMENT MARKING**

STATION	OFFSET	STATION	OFFSET	COMMENT	REFLECTOR COLOR	SHORT TERM PAVT MKING (FOOT)	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 12 (FOOT)	WORK ZONE PAVT MK REM (SO FT)	THPL PVT MK LTR & SYM (NOTE 1) (SO FT)	THPL PVT MK LINE 4 (NOTE 1) (FOOT)	MOD URETH PM LTR-SYM (NOTE 1) (SO FT)	MOD URETH PM LINE 4 (NOTE 1) (FOOT)	MOD URETH PM LINE 6 (NOTE 1) (FOOT)	MOD URETH PM LINE 8 (NOTE 1) (FOOT)	MOD URETH PM LINE 12 (NOTE 1) (FOOT)	MOD URETH PM LINE 24 (NOTE 1) (FOOT)	RAISED REFL PAVT MKR (NOTE 2) (EACH)	PRISMATIC CURB REFL (EACH)	PAVT MARKING REMOVAL (SO FT)	PAINT CURB (FOOT)
IL 143																					
306+39	11' LT	306+50	11' LT	LANE LINE																	4
306+39	11' LT			STOP BAR																	24
306+65	54' LT			TURN LANE CROSSWALK																	36
306+65	54' LT			TURN LANE STOP BAR																	36
306+51	11' LT			STOP BAR			12	12									12				
306+71	44' LT			STOP BAR			18	18									18				
305+04	48' RT			CROSSWALK			66	66							66						
305+34				CROSSWALK			126	126							126						
306+30				CROSSWALK			158	158							158						
306+66	54' LT			CROSSWALK			62	62							62						
306+48	43' LT			ISLAND CHEVRONS			101	101							101						
306+94	24' LT	310+68	18' LT	LANE LINE	ONE WAY CRYSTAL	40	374		125	374								11			
310+68	18' LT	312+23	18' LT	SKIP DASH			39		13	39											52
306+75	92' LT	309+53	31' LT	EDGE LINE		12	324		108	324											
310+04	31' LT	312+23	17' LT	EDGE LINE		12	219		73	219											
306+48	43' LT			ISLAND PERIMETER			223		74						223				11		71
307+45	29' LT			RIGHT TURN						15.6											
308+81	29' LT			RIGHT TURN						15.6											
310+19	29' LT			RIGHT TURN						15.6											
KOEPLI LANE/TROXLER AVENUE																					
92+72	40' RT	95+16	40' RT	SKIP DASH MULTI USE			61		20					61							
95+16	40' RT	95+90	40' RT	CENTER MULTI USE			78		26					78							
96+63	51' LT	99+95	22' LT	EDGE LINE		16	341		114					341							
97+18	18' LT	98+40	18' LT	LANE LINE											124						
97+18	22' LT	98+40	22' LT	LANE LINE	ONE WAY CRYSTAL	16	124		41						124			5			
98+40	22' LT	99+95	22' LT	SKIP DASH		16	39		13						39						
98+40	18' LT	99+95	18' LT	SKIP DASH			39		13						39						
95+79	6' RT			STOP BAR				12	12								12				
97+18	22' LT			STOP BAR				12	12								12				
95+88				CROSSWALK				102	102						102						
97+07				CROSSWALK				120	120						120						96
97+44	27' LT			RIGHT TURN								15.6									
97+93	44' LT			THROUGH ARROW								6.5									
98+13	44' LT			THROUGH ARROW								6.5									
98+15	27' LT			RIGHT TURN								15.6									
95+80	6' RT	95+94	6' RT	LANE LINE																	5
95+80	6' RT			STOP BAR																	24
96+64	51' LT	97+15	21' LT	EDGE LINE																	21
98+40	18' LT	99+72	18' LT	BIKE LANE																	88
99+72	6' LT	99+92	6' LT	DOUBLE CENTERLINE																	13
<b>TOTAL</b>						112	1,861	789	1,409	47	956	44	480	326	223	735	54	16	11	398	71

**PAVEMENT MARKING NOTES:**

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- SEE HIGHWAY STANDARD 781001 FOR RAISED REFLECTIVE PAVEMENT MARKER DETAILS.

FILE NAME: N:\P\125\MicroStation\CR00\_Sheets\0812125\_P1-PAVEMENT.dgn

**DATES ASSOCIATES**  
Engineering • Architecture

ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME: brian.heil	DESIGNED: -	REVISED: -
	DRAWN: -	REVISED: -
PLLOT SCALE: 48,0000' / in.	CHECKED: -	REVISED: -
PLLOT DATE: 2/6/2015	DATE: -	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	13
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

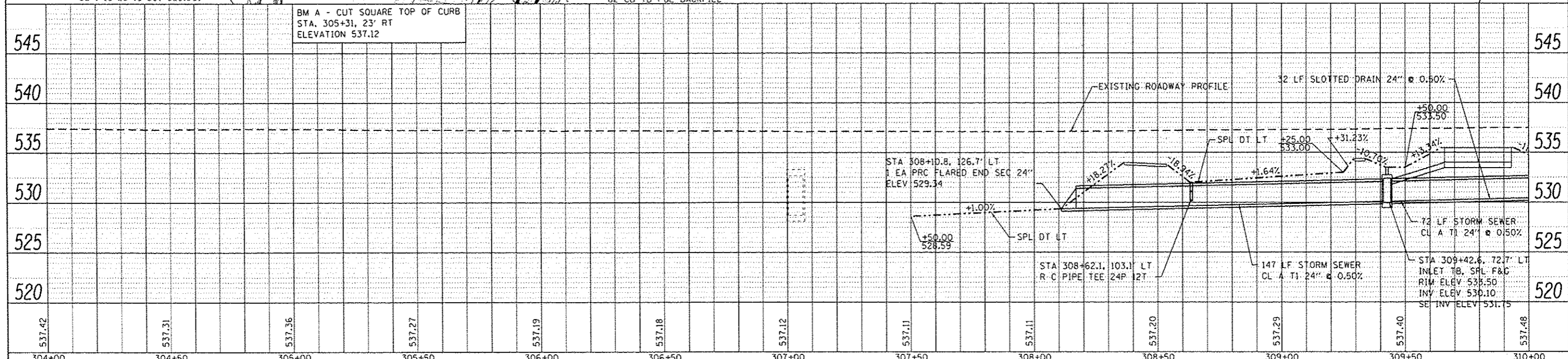
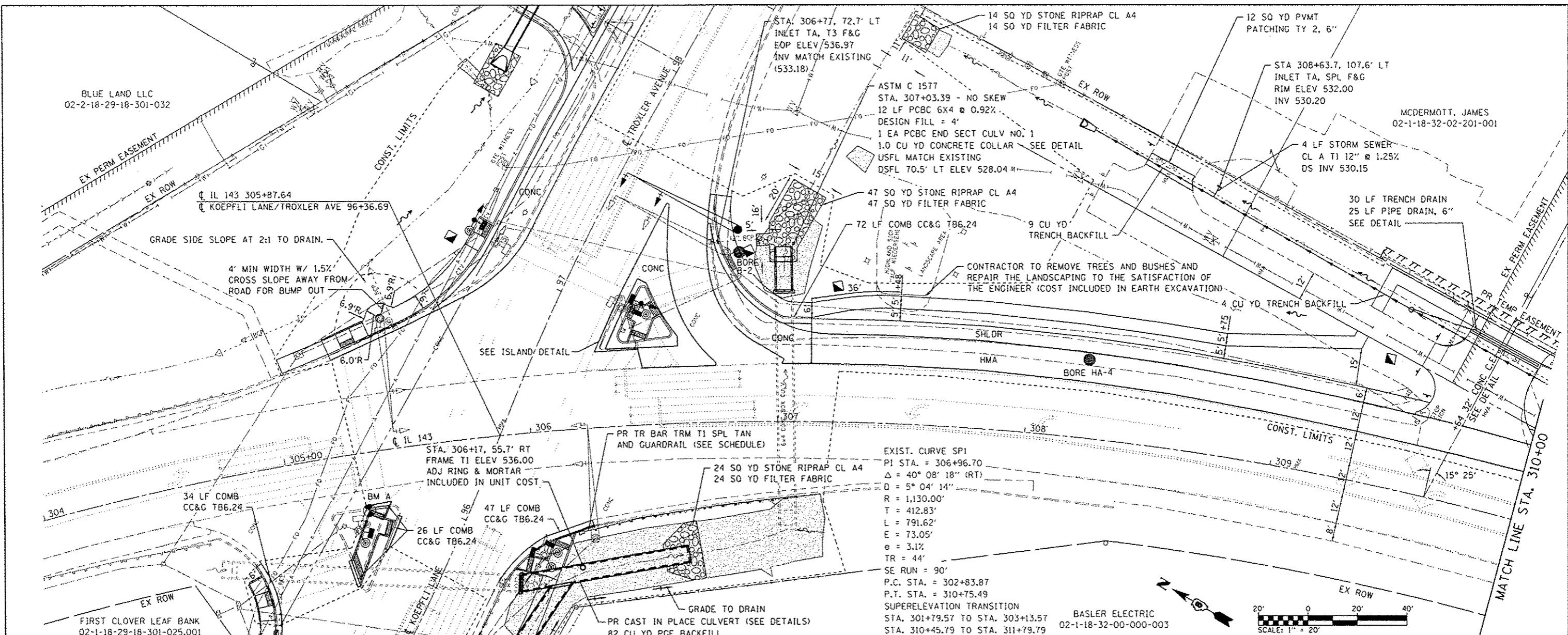


BLUE LAND LLC  
02-2-18-29-18-301-032

MCDERMOTT, JAMES  
02-1-18-32-02-201-001

PLAN	DATE
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NO.	

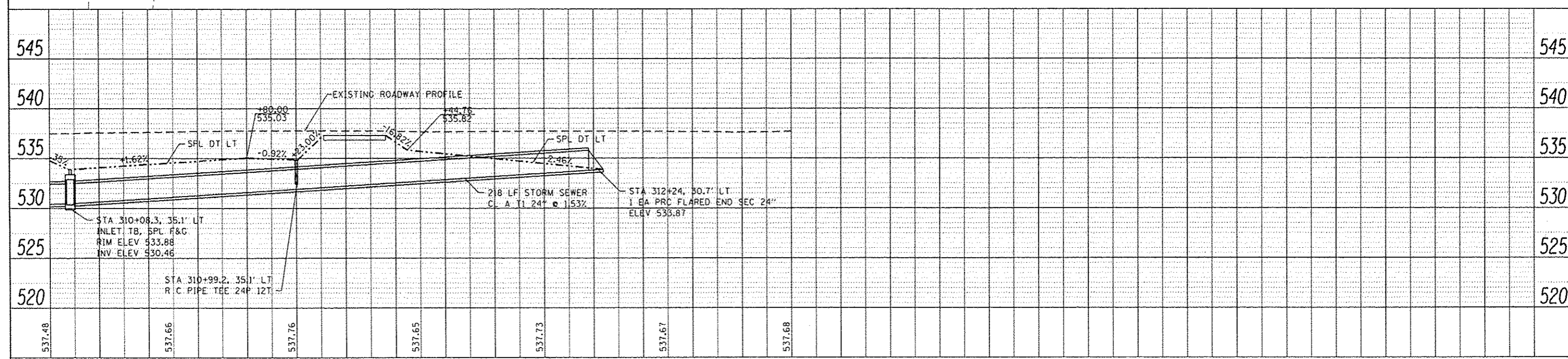
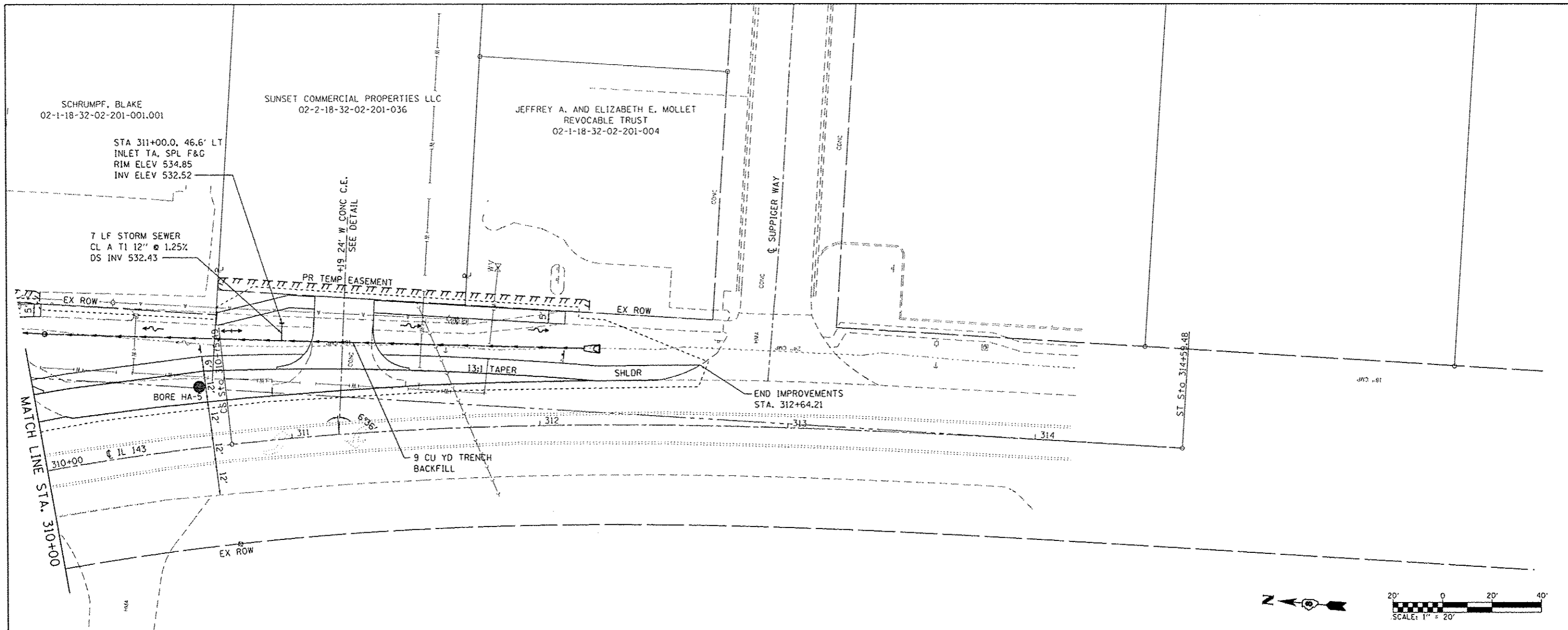
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BY	
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FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN & PROFILE SHEETS IL 143		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\P\18125\Microstation\CADD Sheets\0818125	branzhell	-	-					789	12-00066-01-WR	MADISON	45	14
Sheet	PLOT SCALE = 48.0000' / in.	CHECKED	REVISED					CONTRACT NO. 97583		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/6/2015	DATE	REVISED					SCALE: SHEET 1 OF 2 SHEETS STA. 304+00 TO STA. 310+00				

PLAN	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	

PROFILE	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	



FILE NAME: H:\P\10125\Microstation\CADD Sheets\0010125-ent-plnprf-IL143.dgn	USER NAME: brianheil	DESIGNED: -	REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE SHEETS</b> <b>IL 143</b>	F.A.P. RTE.: 789	SECTION: 12-00066-01-WR	COUNTY: MADISON	TOTAL SHEETS: 45	SHEET NO.: 15
PLOT SCALE: 40,0000' / in.	CHECKED: -	REVISED: -	SCALE: SHEET 2 OF 2 SHEETS STA. 310+00 TO STA. 314+00			CONTRACT NO. 97583				
PLOT DATE: 2/6/2015	DATE: -	REVISED: -	ILLINOIS FED. AID PROJECT							
Sheet2										



PROFESSIONAL RESOURCE DEVELOPMENT INC.  
02-2-18-29-18-301-033

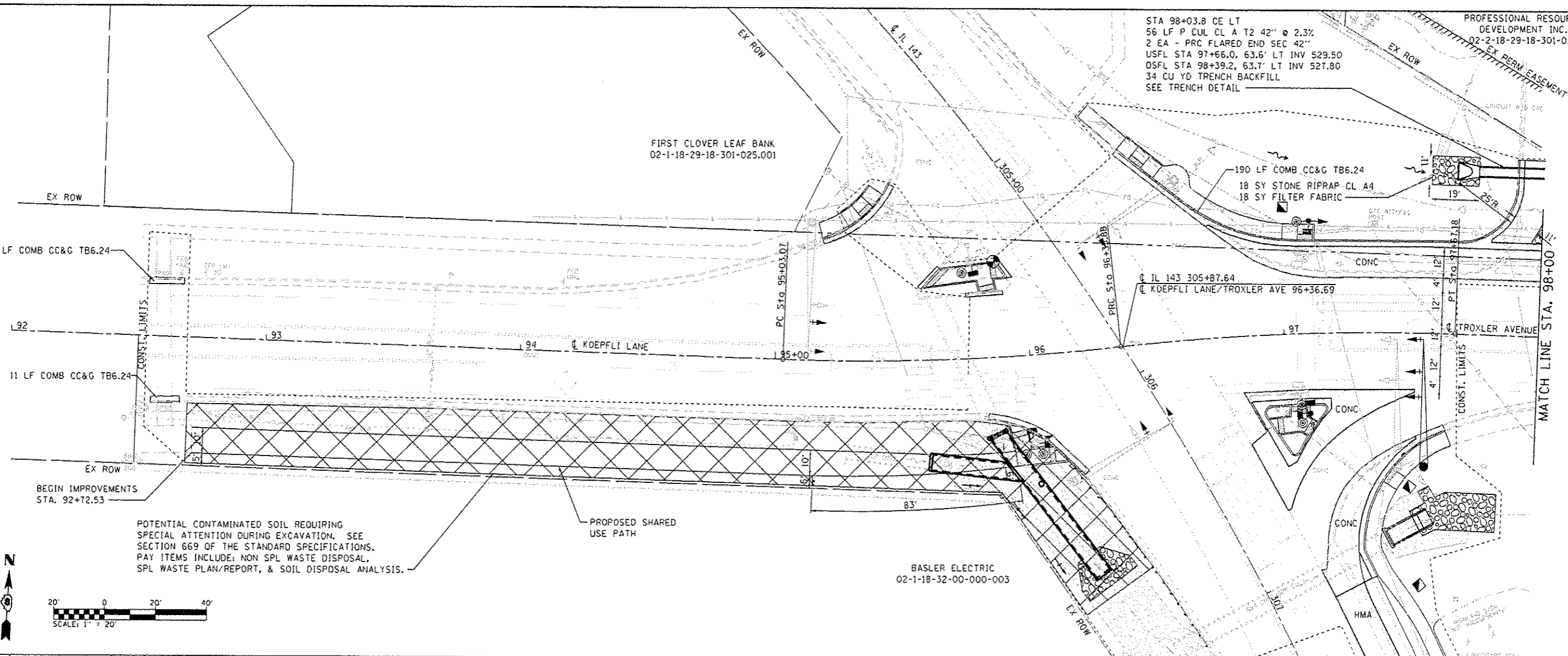
STA 98+03.8 CE LT  
56 LF P CUL CL A T2 42" @ 2.3%  
2 EA - PRC FLARED END SEC 42"  
USFL STA 97+66.0, 63.6' LT INV 529.50  
OSFL STA 98+39.2, 63.7' LT INV 527.80  
34 CU YD TRENCH BACKFILL  
SEE TRENCH DETAIL

FIRST CLOVER LEAF BANK  
02-1-18-29-18-301-025.001

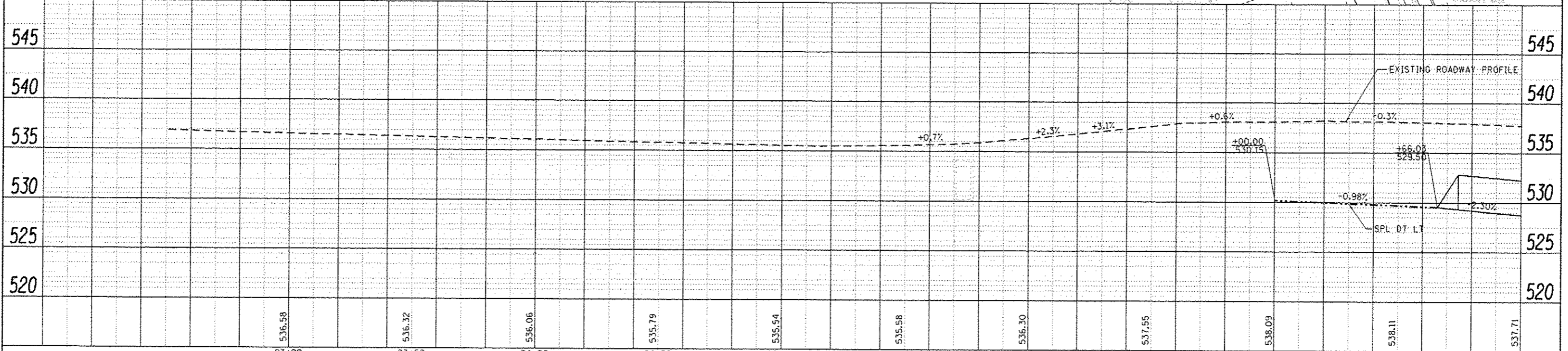
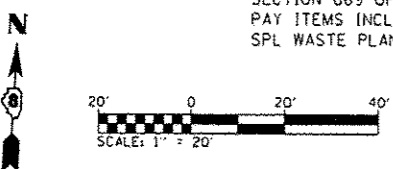
BASLER ELECTRIC  
02-1-18-32-00-000-003

PLAN	DATE	BY
APPROVED		
NOTED		
REVISIONS		
NO. OF REVISIONS		
DATE		
BY		

PROFILE	DATE	BY
APPROVED		
NOTED		
REVISIONS		
NO. OF REVISIONS		
DATE		
BY		



POTENTIAL CONTAMINATED SOIL REQUIRING SPECIAL ATTENTION DURING EXCAVATION. SEE SECTION 669 OF THE STANDARD SPECIFICATIONS. PAY ITEMS INCLUDE: NON SPL WASTE DISPOSAL, SPL WASTE PLAN/REPORT, & SOIL DISPOSAL ANALYSIS.



FILE NAME: H:\P\18125\Microstation\CADD Sheets\0818125	USER NAME: Brian.Hall	DESIGNED: -	REVISED: -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>PLAN &amp; PROFILE SHEETS</b> <b>KOEPLI LANE-TROXLER AVENUE</b></p>	F.A.P. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:	
		DRAWN: -	REVISED: -			789	12-00066-01-WR	MADISON	45	16	
		CHECKED: -	REVISED: -			CONTRACT NO. 97583					
		DATE: -	REVISED: -			ILLINOIS FED. AID PROJECT					

PROFESSIONAL RESOURCE DEVELOPMENT INC.  
02-2-18-29-18-301-033

42 LF COMB CC&G TM6.06. 63 SQ FT CONC MED SURF, 4"

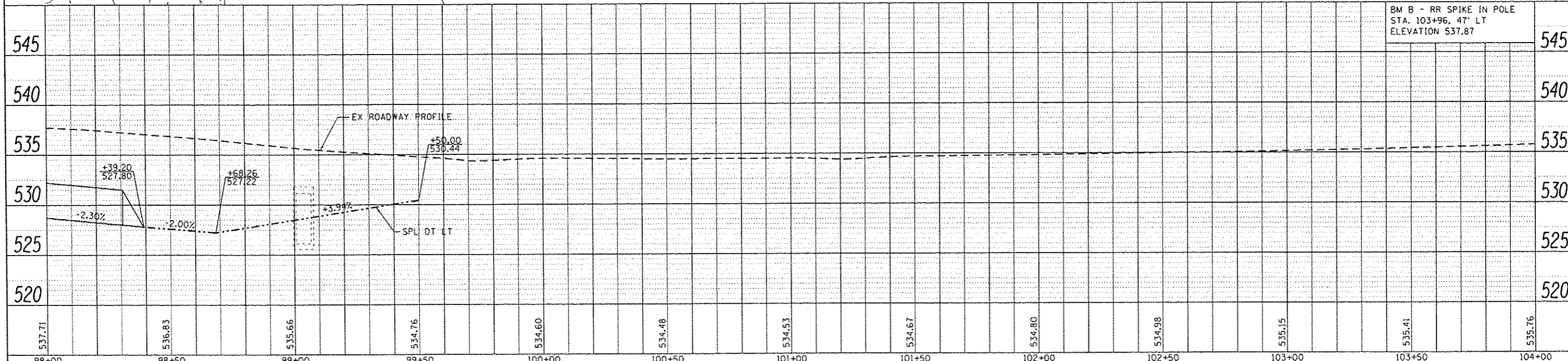
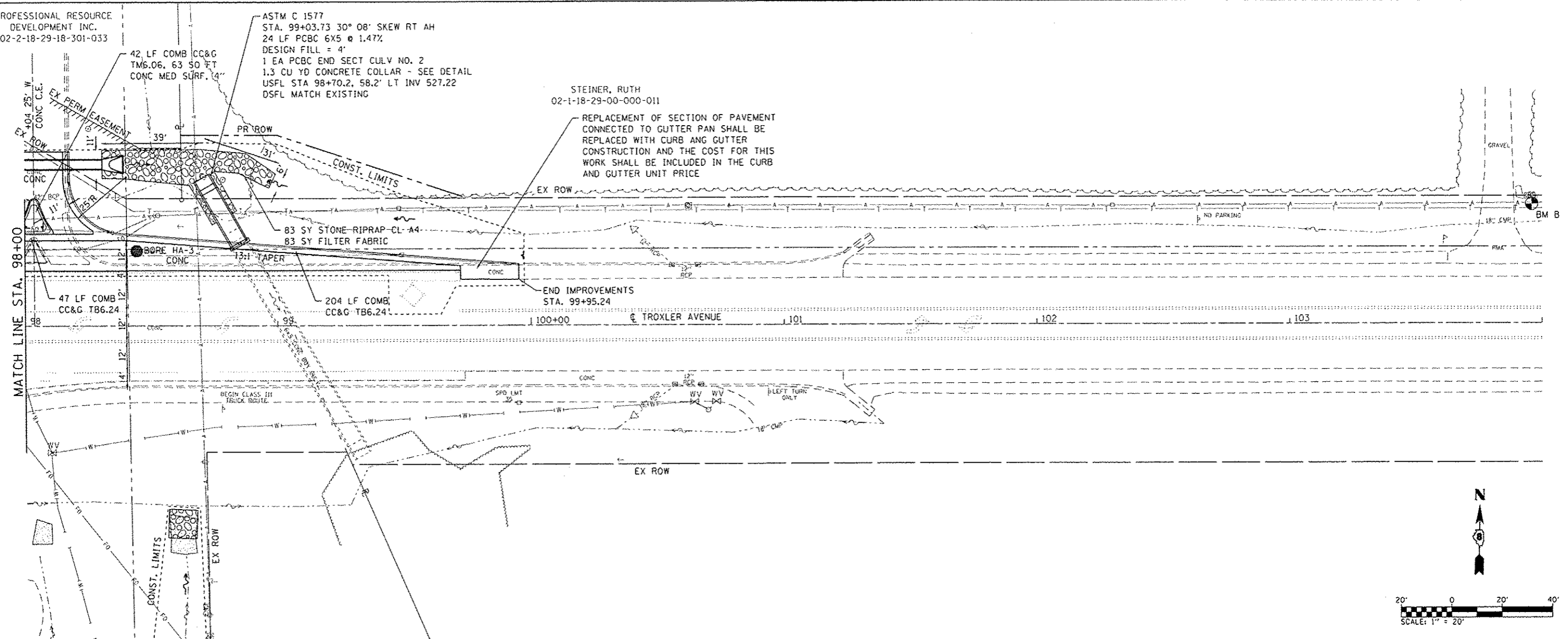
ASTM C 1577  
STA. 99+03.73 30° 08' SKEW RT AH  
24 LF PCBC 6X5 @ 1.47%  
DESIGN FILL = 4'  
1 EA PCBC END SECT CULV NO. 2  
1.3 CU YD CONCRETE COLLAR - SEE DETAIL  
USFL STA 98+70.2, 58.2' LT INV 527.22  
DSFL MATCH EXISTING

STEINER, RUTH  
02-1-18-29-00-000-011

REPLACEMENT OF SECTION OF PAVEMENT CONNECTED TO GUTTER PAN SHALL BE REPLACED WITH CURB AND GUTTER CONSTRUCTION AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CURB AND GUTTER UNIT PRICE

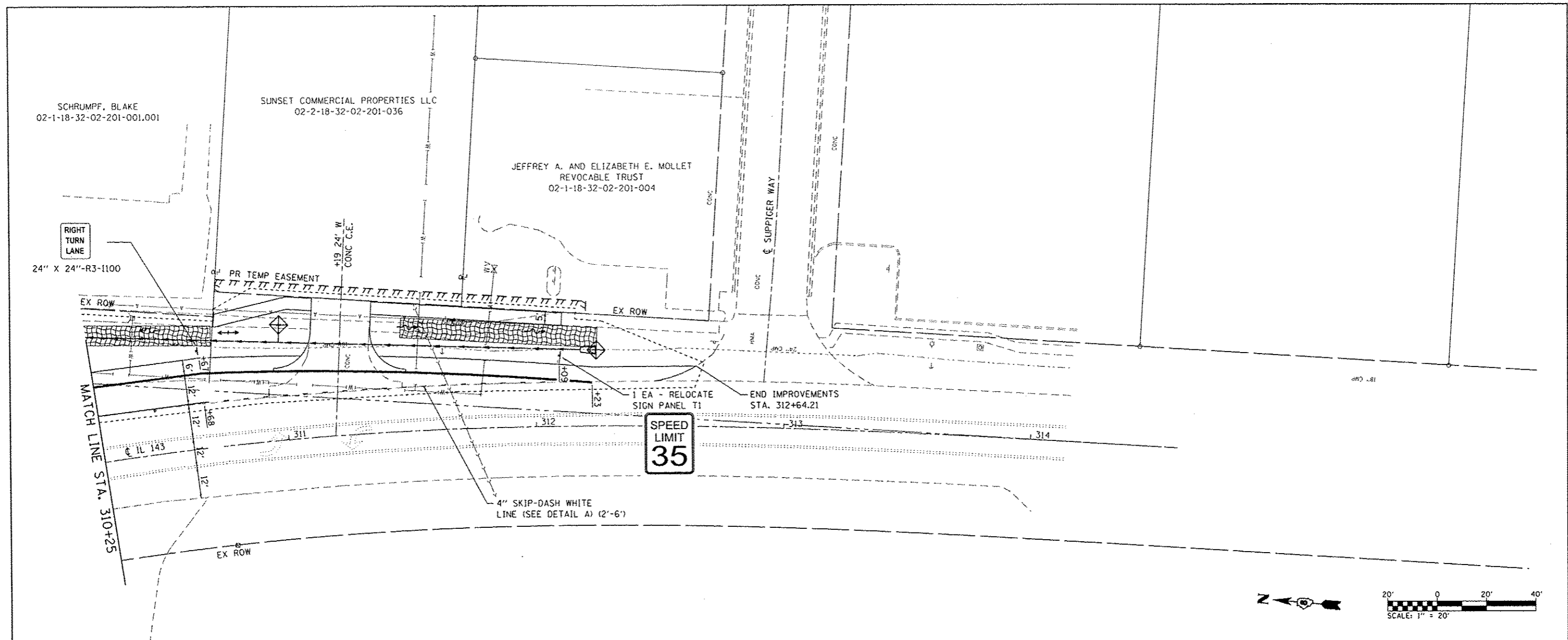
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STRUCTURE NOTATIONS CHECKED	
PLAN	
NOTE BOOK	
NO.	
FILE NAME	

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REVIEWED	
DESIGNED	
DRAWN	
CHECKED	
NO. NOTED	
STRUCTURE NOTATIONS CHECKED	
PROFILE	
NOTE BOOK	
NO.	
FILE NAME	



FILE NAME	USER NAME = brian.hall	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE SHEETS</b> <b>KOEPFLI LANE-TROXLER AVENUE</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\NP\18125\Microstation\CADD Sheets\DR18125-shr-plnpr-f-trox.dgn		DRAWN -	REVISED -		789	12-00066-01-WR	MADISON	45	17	CONTRACT NO. 97583	
PLOT SCALE = 48.0000' / in.		CHECKED -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA. 98+00	TO STA. 103+00	ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/6/2015		DATE -	REVISED -								





**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION
- PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
- ◆ INLET AND PIPE PROTECTION
- ▨ HEAVY DUTY EROSION CONTROL BLANKET
- ▩ STONE RIPRAP

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.

FILE NAME: J:\P\12025\MicroStation\12025\_Sheets\0910125\_sht\_pmk-IL13.dgn

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME : brian.heil	DESIGNED -	REVISED -
PLOT SCALE : 10.0000 1 / in.	DRAWN -	REVISED -
PLOT DATE : 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL, PAVEMENT MARKINGS  
AND SIGNING SHEETS**

SCALE: SHEET 2 OF 3 SHEETS STA. 310+25 TO STA. 313+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	19
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	



ENTER ONLY

RIGHT TURN LANE

BEGIN RIGHT TURN LANE  
YIELD TO BIKES

36" X 36" R5-1

STEINER, RUTH  
02-1-18-29-00-000-011

24" X 24"-R3-I100

36" X 30"-R4-4

4" WHITE EDGE LINE

EX ROW

MATCH LINE STA. 97+75

END IMPROVEMENTS  
STA. 99+95.24

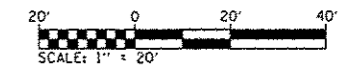
TROXLER AVENUE

6" SKIP-DASH WHITE LINE  
(SEE DETAIL AN2'-6')

6" WHITE EDGE LINE

ONE-WAY CRYSTAL  
RAISED REFLECTIVE  
PAVEMENT MARKERS  
@ 40' CENTERS

EX ROW



### EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- ===== PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
- ◆ INLET AND PIPE PROTECTION
- ⊗ STONE RIPRAP

NOTE: ALL ITEMS SHALL BE CONSTRUCTED  
AS SHOWN ON STANDARD 280001 AND  
AS DIRECTED BY THE ENGINEER.

FILE NAME: H:\P\18125\MicroStation\CADD\_Sheets\0818125-shr-pave-1.dwg



USER NAME	brian.hall
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLLOT SCALE	1/4" = 1'-0"
PLLOT DATE	2/6/2015

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### EROSION CONTROL, PAVEMENT MARKINGS AND SIGNING SHEETS

SCALE: SHEET 3 OF 3 SHEETS STA. 96+00 TO STA. 99+95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	20
CONTRACT NO. 975B3			ILLINOIS FED. AID PROJECT	



**ELECTRICAL GENERAL NOTES**

- PRIOR TO COMMENCING CONSTRUCTION OF ANY COMPONENT OF THE PROPOSED TRAFFIC SIGNAL SYSTEM, ALL UNDERGROUND UTILITIES SHALL BE FIELD LOCATED ACCORDING TO ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED IN THE GENERAL NOTES OF THE PLANS. CALL J.U.L.I.E. (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- THE EXISTING SIGNS ON THE EXISTING MAST ARM IN THE SOUTHEAST QUADRANT SHALL BE RELOCATED TO THE NEW MAST ARM AND ATTACHED WITH NEW HARDWARE PER SECTION 720 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND HIGHWAY STANDARDS 720001 AND 720016. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PER EACH FOR RELOCATE SIGN PANEL OF THE TYPE SPECIFIED.
- TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- THE QUANTITIES SHOWN FOR TRAFFIC SIGNAL CABLE IN CONDUIT AND REMOVAL OF ELECTRIC CABLE FROM CONDUIT ASSUME THAT ALL CABLE IN EXISTING CONDUIT WILL NEED TO BE REPLACED. IF IT IS DETERMINED IN THE FIELD THAT THIS CABLE IS SUITABLE FOR USE AND IT WILL NOT BE DAMAGED WHILE PULLING ADDITIONAL CABLE THROUGH THE CONDUIT, WORK ON THESE ITEMS WILL BE UNNECESSARY.
- MOUNTING HARDWARE, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM. BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
- THE FOLLOWING DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM POLES HAVE BEEN DETERMINED FROM SOIL BORING DATA:  
SE CORNER: 15'-0"
- THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.
- BACKPLATES SHALL BE ABS PLASTIC
- INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL BE RACK MOUNTED AND SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- PROPOSED CONDUIT SHALL BE PVC UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE PLACED AND BACKFILLED PRIOR TO CONSTRUCTION OF NEW PAVEMENT, SHOULDER AND CURB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PUSHING OR PULLING CONDUIT AFTER SUCH WORK HAS BEEN COMPLETED.
- A 1/4" DIAMETER NYLON PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS.
- HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE ACCORDING TO ARTICLE 814.03(g) OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". HANDHOLE COVERS SHALL BE SLOPED TO MATCH PROPOSED CONTOURS.
- SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND CONSTRUCTION STAGING REQUIREMENTS.
- THE FOLLOWING ABBREVIATIONS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

- |       |                                      |
|-------|--------------------------------------|
| ABND  | ABANDON                              |
| ALUM  | ALUMINUM                             |
| BM    | BRACKET MOUNTED                      |
| EQUIP | EQUIPMENT                            |
| GSC   | GALVANIZED STEEL CONDUIT             |
| MAM   | MAST ARM MOUNTED                     |
| PED   | PEDESTRIAN                           |
| PVC   | POLYVINYL CHLORIDE CONDUIT           |
| PB    | PUSH-BUTTON                          |
| RELOC | RELOCATE                             |
| REC   | REMOVE ELECTRICAL CABLE FROM CONDUIT |
| SH    | SIGNAL HEAD                          |
| UC    | UNDERGROUND CONDUIT                  |

**STANDARDS FOR TRAFFIC SIGNAL SHEETS**

- |        |   |
|--------|---|
| 720001 | SIGN PANEL MOUNTING DETAILS                             |
| 720016 | MAST ARM MOUNTED STREET NAME SIGNS                      |
| 814001 | HANDHOLES   |
| 814006 | DOUBLE HANDHOLES  |
| 857001 | STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES |
| 873001 | TRAFFIC SIGNAL GROUNDING & BONDING                      |
| 876001 | PEDESTRIAN PUSH BUTTON POST                             |
| 877001 | STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'        |
| 878001 | CONCRETE FOUNDATION DETAILS                             |
| 880006 | TRAFFIC SIGNAL MOUNTING DETAILS                         |
| 886001 | DETECTOR LOOP INSTALLATIONS                             |
| 886006 | TYPICAL LAYOUTS FOR DETECTION LOOPS                     |

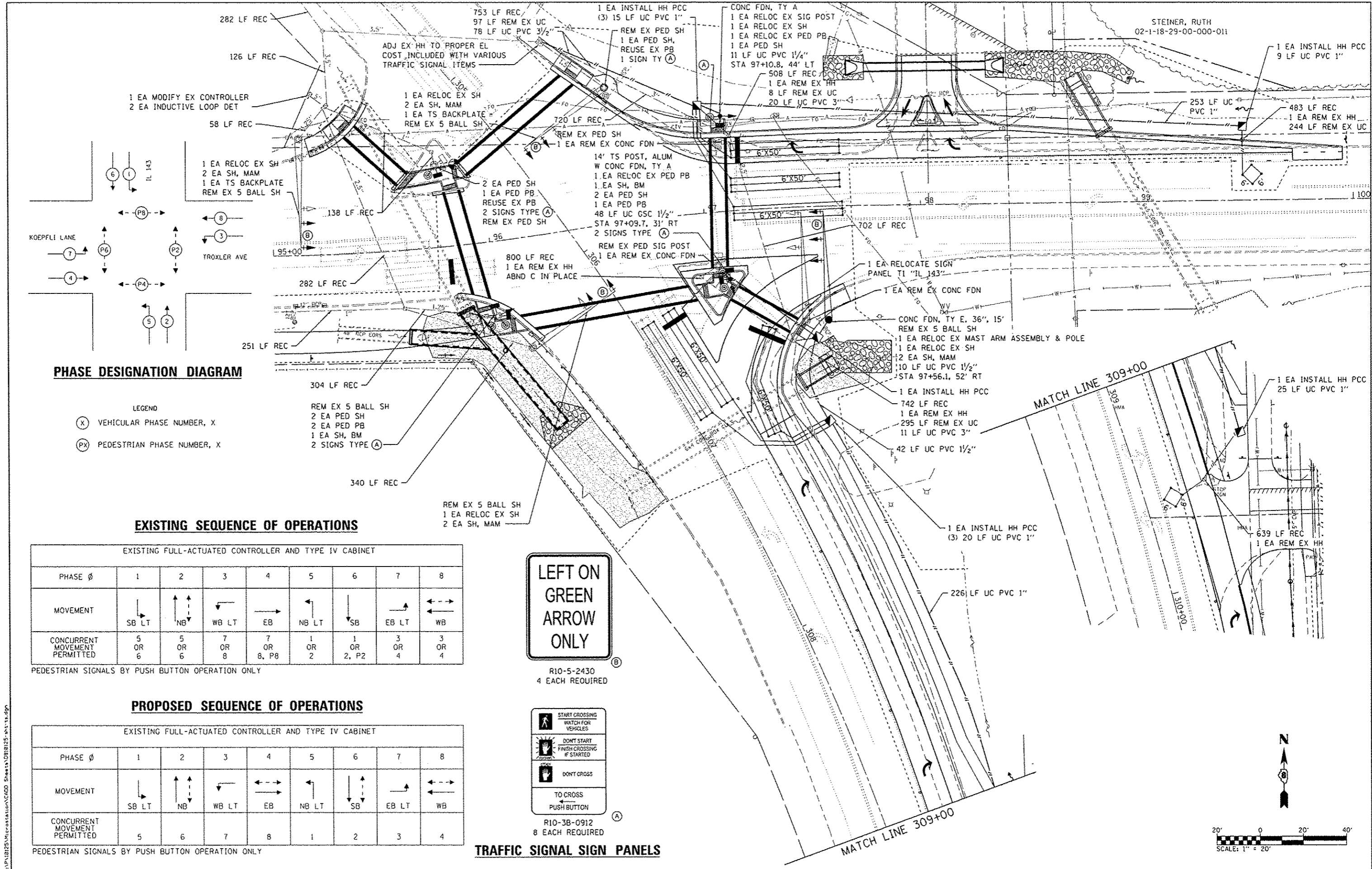
**TRAFFIC SIGNAL LEGEND**

- |  |   |
|--|---|
|  | PROPOSED SIGNAL HEAD WITH BACKPLATE (SEE HIGHWAY STANDARD 880006) |
|  | EXISTING SIGNAL HEAD WITH BACKPLATE                               |
|  | PROPOSED HANDHOLE   |
|  | EXISTING HANDHOLE   |
|  | EXISTING DOUBLE HANDHOLE  |
|  | PROPOSED DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)    |
|  | EXISTING DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)    |
|  | PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED          |
|  | EXISTING CONDUIT: SIZE SPECIFIED                                  |
|  | POLYVINYL CHLORIDE CONDUIT  |
|  | GALVANIZED STEEL CONDUIT  |
|  | REMOVE ELECTRICAL CABLE FROM CONDUIT                              |
|  | PROPOSED SIGN   |
|  | EXISTING MAST ARM   |
|  | PROPOSED MAST ARM   |
|  | EXISTING SIGNAL HEAD, PEDESTRIAN                                  |
|  | EXISTING PEDESTRIAN PUSHBUTTON DETECTOR                           |
|  | EXISTING CONTROLLER   |
|  | EXISTING SIGNAL POST  |
|  | PROPOSED SIGNAL POST  |
|  | PROPOSED STREET NAME SIGN/TRAFFIC SIGN MOUNTED ON MAST ARM        |

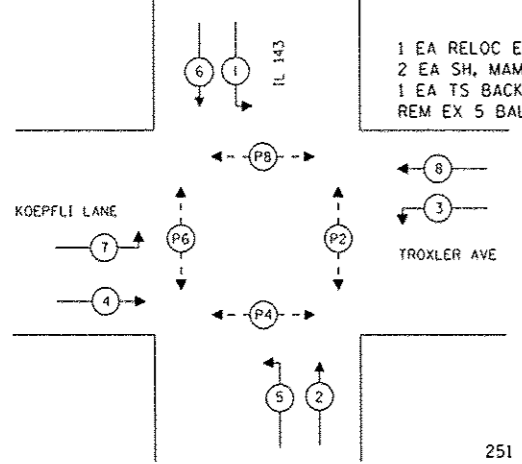
**TRAFFIC SIGNAL SCHEDULE**

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
72000100	SIGN PANEL - TYPE 1	SO FT	87.1
72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	54.0
80300100	LOCATING UNDERGROUND CABLE	FOOT	500
81028190	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	48
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	618
81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	11
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	52
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	31
81028380	UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	78
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
81301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,889
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,931
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,797
87301505	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,329
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	2
88500100	INDUCTIVE LOOP DETECTOR	EACH	2
88500100	DETECTOR LOOP, TYPE I	FOOT	1,216
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	5
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	7,074
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	5
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	739

FILE NAME: H:\P1\1025\MicroStation\CADD Sheets\0810125-01-1a.dgn



**PHASE DESIGNATION DIAGRAM**



- LEGEND**
- (X) VEHICULAR PHASE NUMBER, X
  - (PX) PEDESTRIAN PHASE NUMBER, X

**EXISTING SEQUENCE OF OPERATIONS**

EXISTING FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	SB LT	NB	WB LT	EB	NB LT	SB	EB LT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8, P8	1 OR 2	1 OR 2, P2	3 OR 4	3 OR 4

PEDESTRIAN SIGNALS BY PUSH BUTTON OPERATION ONLY

**PROPOSED SEQUENCE OF OPERATIONS**

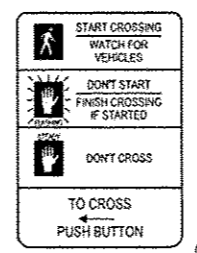
EXISTING FULL-ACTUATED CONTROLLER AND TYPE IV CABINET

PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	SB LT	NB	WB LT	EB	NB LT	SB	EB LT	WB
CONCURRENT MOVEMENT PERMITTED	5	6	7	8	1	2	3	4

PEDESTRIAN SIGNALS BY PUSH BUTTON OPERATION ONLY



R10-5-2430  
4 EACH REQUIRED



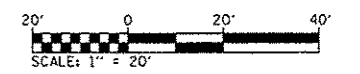
R10-3B-0912  
8 EACH REQUIRED

**TRAFFIC SIGNAL SIGN PANELS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL PLANS**

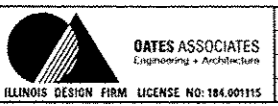
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	22

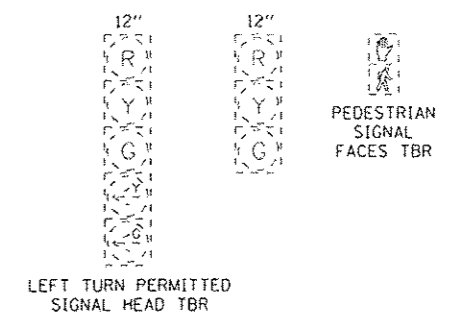
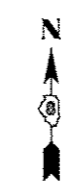
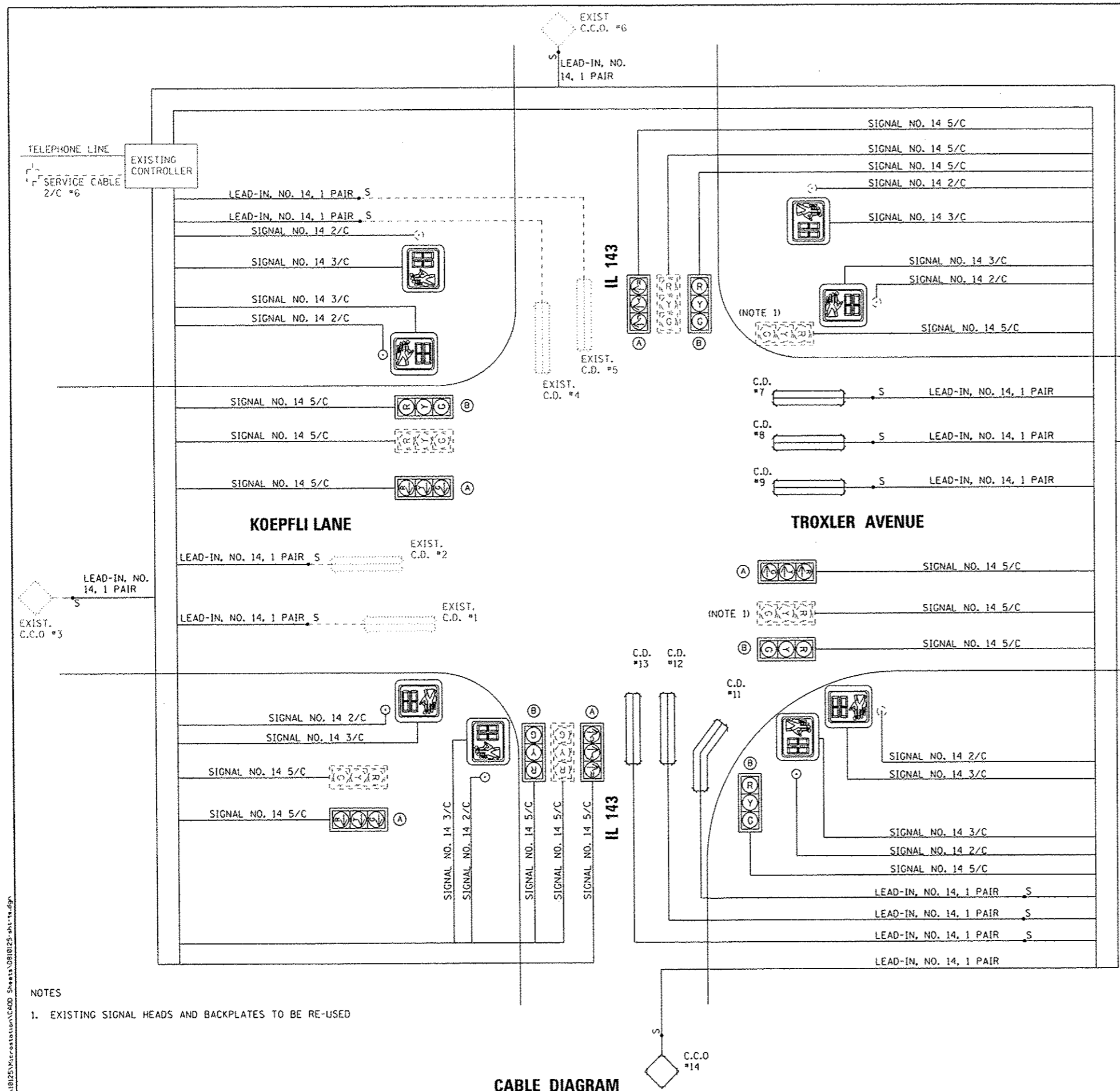
CONTRACT NO. 97583

FILE NAME: H:\P\10125\restoration\CAD Sheets\0918125-01-11.dwg

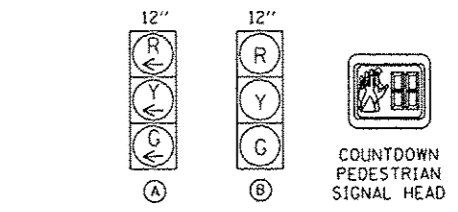


USER NAME: bricen,heil	DESIGNED: -	REVISED: -
PLOT SCALE: 40,0000 / 1 in.	DRAWN: -	REVISED: -
PLOT DATE: 2/9/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

CABLE DIAGRAM LEGEND

- PROPOSED ELECTRIC CABLE IN CONDUIT
- S- PROPOSED CABLE SPLICE (SEE ELECTRICAL GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- C.D. CALL DELAY (SEE ELECTRICAL GENERAL NOTES)
- C.C.O. CALL CARRY OVER (SEE ELECTRICAL GENERAL NOTES)
- NO. 6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- #6 LOOP DETECTOR NUMBER
- ⊙ PROPOSED PEDESTRIAN PUSH BUTTON
- - - - - EXISTING ELECTRIC CABLE IN CONDUIT
- - - - -S- - - - - EXISTING CABLE SPLICE (SEE ELECTRICAL GENERAL NOTES)
- ⊙ EXISTING PEDESTRIAN PUSH BUTTON
- - - - - EXISTING SERVICE INSTALLATION

LOOP #	DIRECTION	PHASE	LOOP SIZE (FOOT)	REQUIRED NUMBER OF TURNS	LEAD-IN CABLE LENGTH (FOOT)	CALCULATED INDUCTANCE (microhenries)	CALCULATED RESISTANCE (ohms)
7	WB RT	8	6' X 50'	3 - 6 - 3	182	826	2.50
8	WB THRU	8	6' X 50'	3 - 6 - 3	182	826	2.50
9	WB LT	3	6' X 50'	3 - 6 - 3	182	826	2.50
10	WB C.C.O.	8	6' X 6'	6	435	351	2.54
11	NB RT	2	6' X 50'	3 - 6 - 3	344	862	3.31
12	NB THRU	2	6' X 50'	3 - 6 - 3	344	862	3.31
13	NB LT	5	6' X 50'	3 - 6 - 3	344	862	3.31
14	NB C.C.O.	2	6' X 6'	6	572	381	3.22

THE ABOVE VALUES ARE CALCULATIONS OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN 20% OF THESE VALUES.

- NOTES
- EXISTING SIGNAL HEADS AND BACKPLATES TO BE RE-USED

CABLE DIAGRAM

**GATES ASSOCIATES**  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME - brian.heil	DESIGNED -	REVISED -
PLOT SCALE - 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE - 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

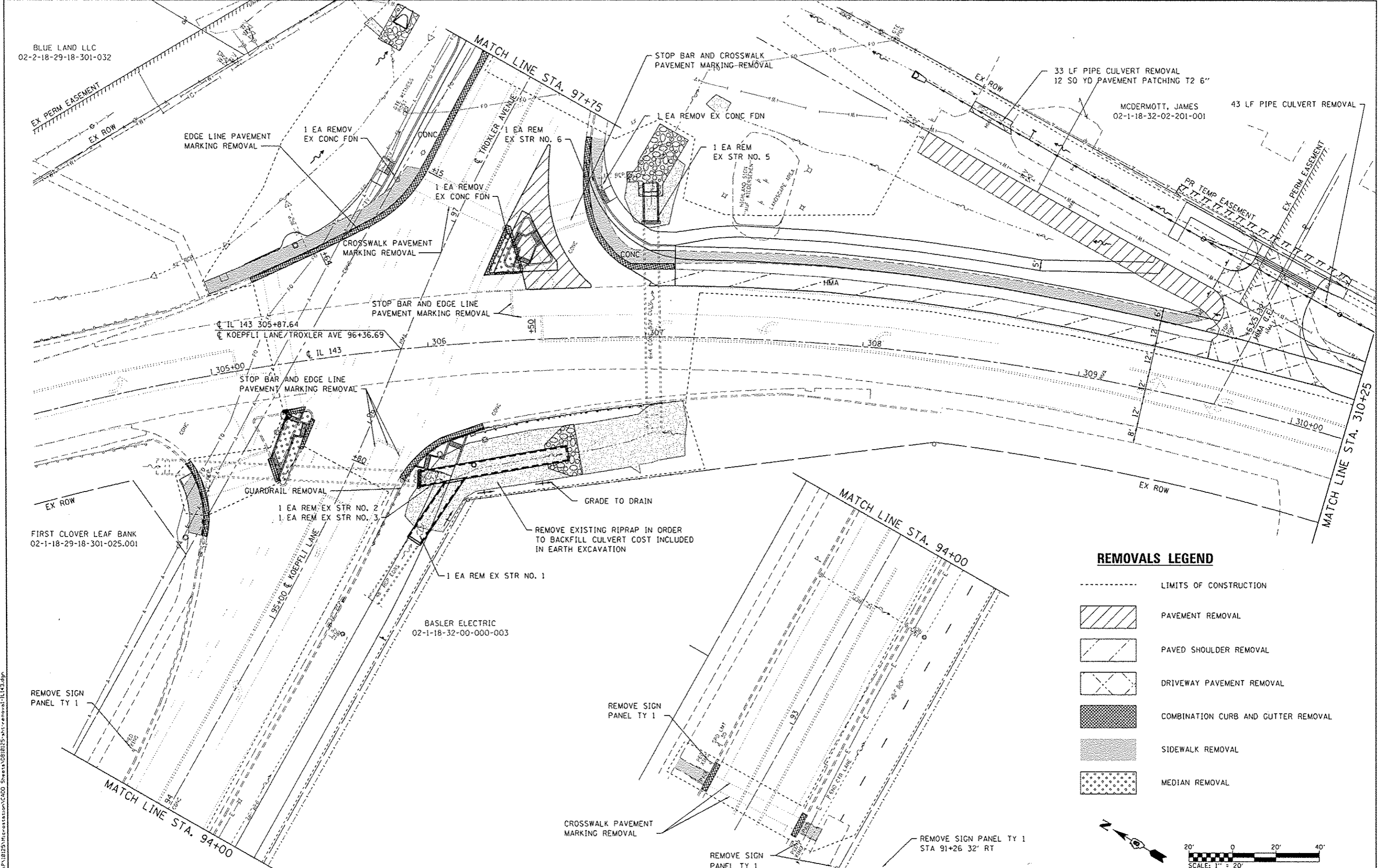
**TRAFFIC SIGNAL PLANS**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

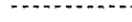
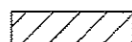
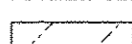
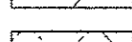
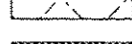


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 97583				

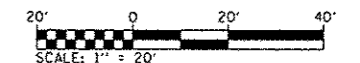
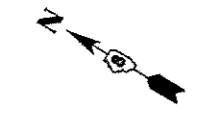
ILLINOIS FED. AID PROJECT

BLUE LAND LLC  
02-2-18-29-18-301-032



**REMOVALS LEGEND**

-  LIMITS OF CONSTRUCTION
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  SIDEWALK REMOVAL
-  MEDIAN REMOVAL



FILE NAME: MAP10123\18\restoration\CADD\_Sheets\001\125-18-removal-ILK3.dwg



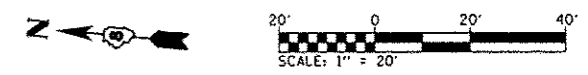
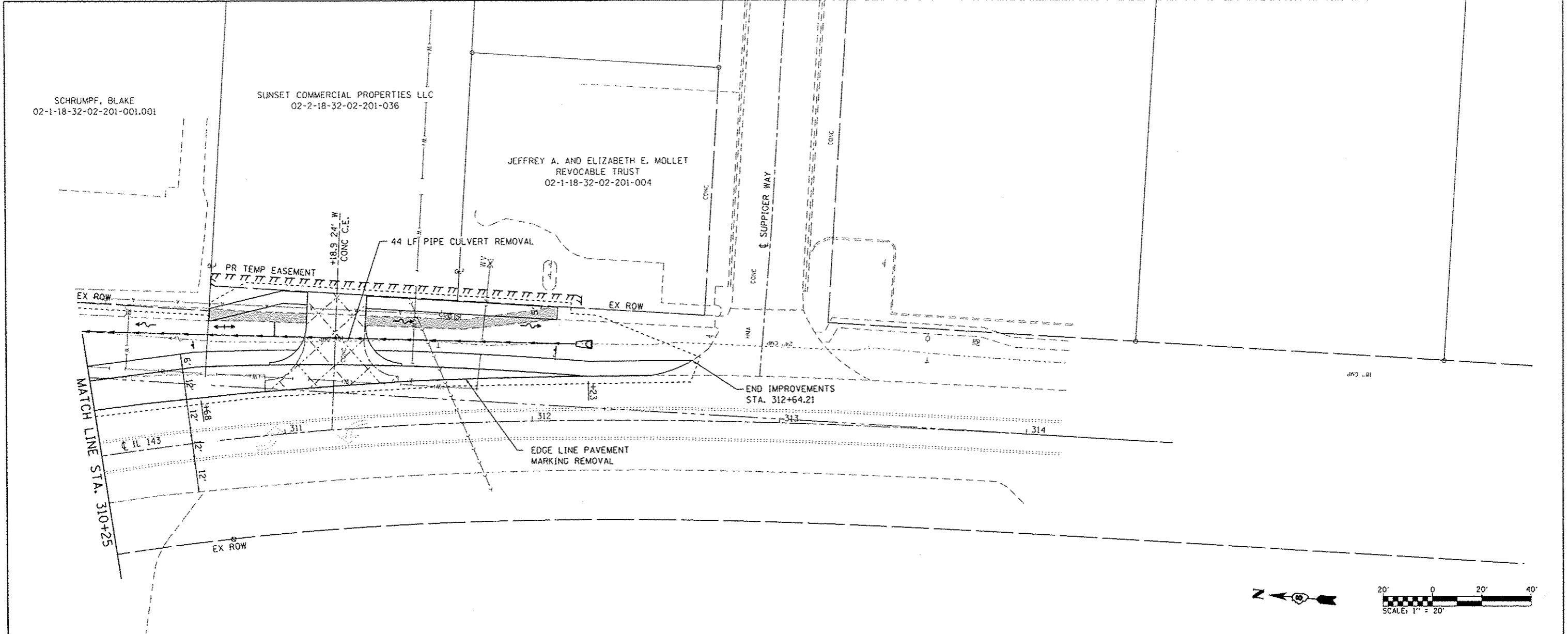
USER NAME	brian.hell	DESIGNED	-	REVISED	-
DRAWN	-	REVISIONS	-	REVISIONS	-
CHECKED	-	REVISIONS	-	REVISIONS	-
DATE	-	REVISIONS	-	REVISIONS	-
PLOT SCALE	40.0000' / in.				
PLOT DATE	2/6/2015				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

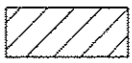
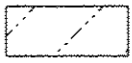
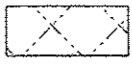
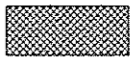
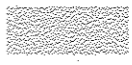
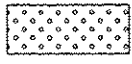
**REMOVAL SHEETS**

SCALE: SHEET 1 OF 3 SHEETS STA. 304+50 TO STA. 310+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	24
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	



**REMOVALS LEGEND**

- LIMITS OF CONSTRUCTION
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  SIDEWALK REMOVAL
-  MEDIAN REMOVAL

FILE NAME: H:\PUB\125\Microstation\CADD\_Sheets\0818125\pht-removal-IL143.dgn



USER NAME	brian.hest	DESIGNED	-	REVISED	-
PLOT SCALE	40.0000' / in.	DRAWN	-	REVISED	-
PLOT DATE	2/6/2015	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL SHEETS**

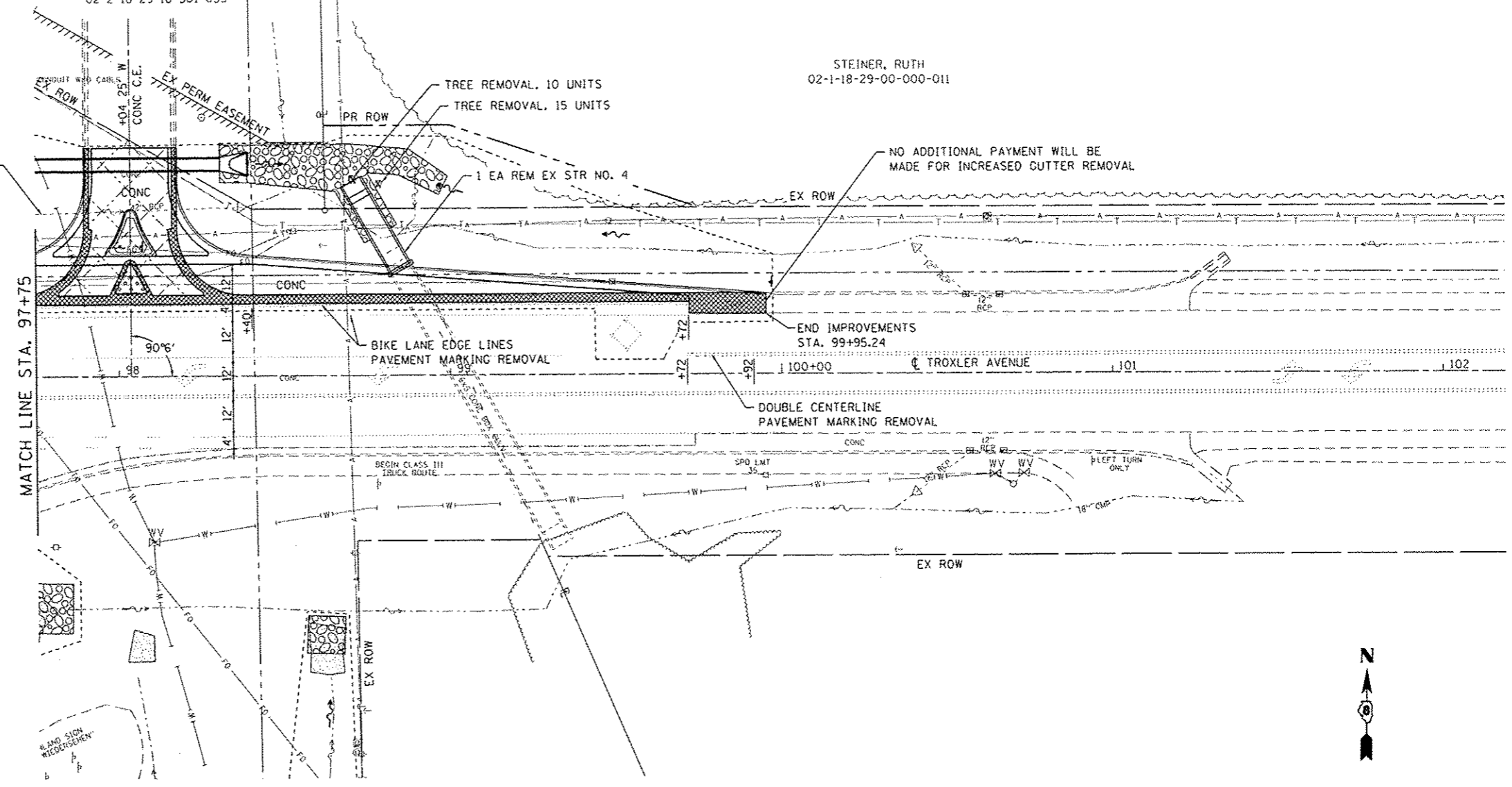
SCALE: SHEET 2 OF 3 SHEETS STA. 310+25 TO STA. 313+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

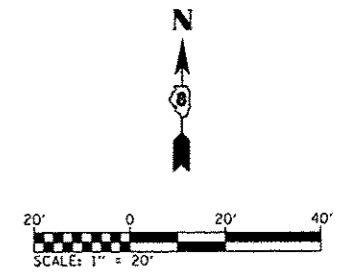
PROFESSIONAL RESOURCE  
DEVELOPMENT INC.  
02-2-18-29-18-301-033

STEINER, RUTH  
02-1-18-29-00-000-011

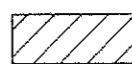
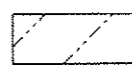
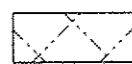


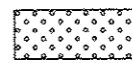
73 LF PIPE CULVERT REMOVAL



NO ADDITIONAL PAYMENT WILL BE  
MADE FOR INCREASED CUTTER REMOVAL



**REMOVALS LEGEND**

- LIMITS OF CONSTRUCTION
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  SIDEWALK REMOVAL
-  MEDIAN REMOVAL

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**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

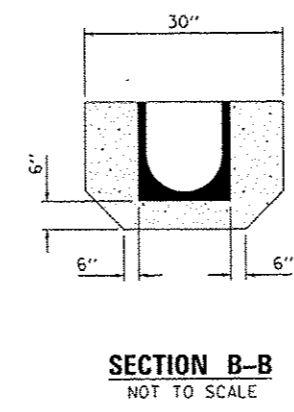
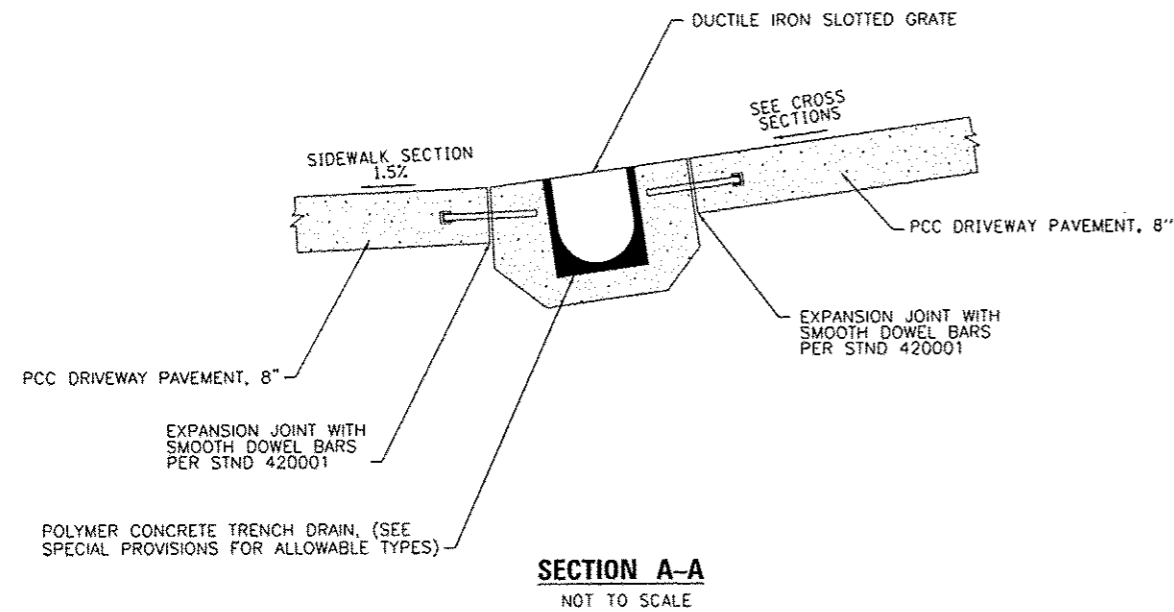
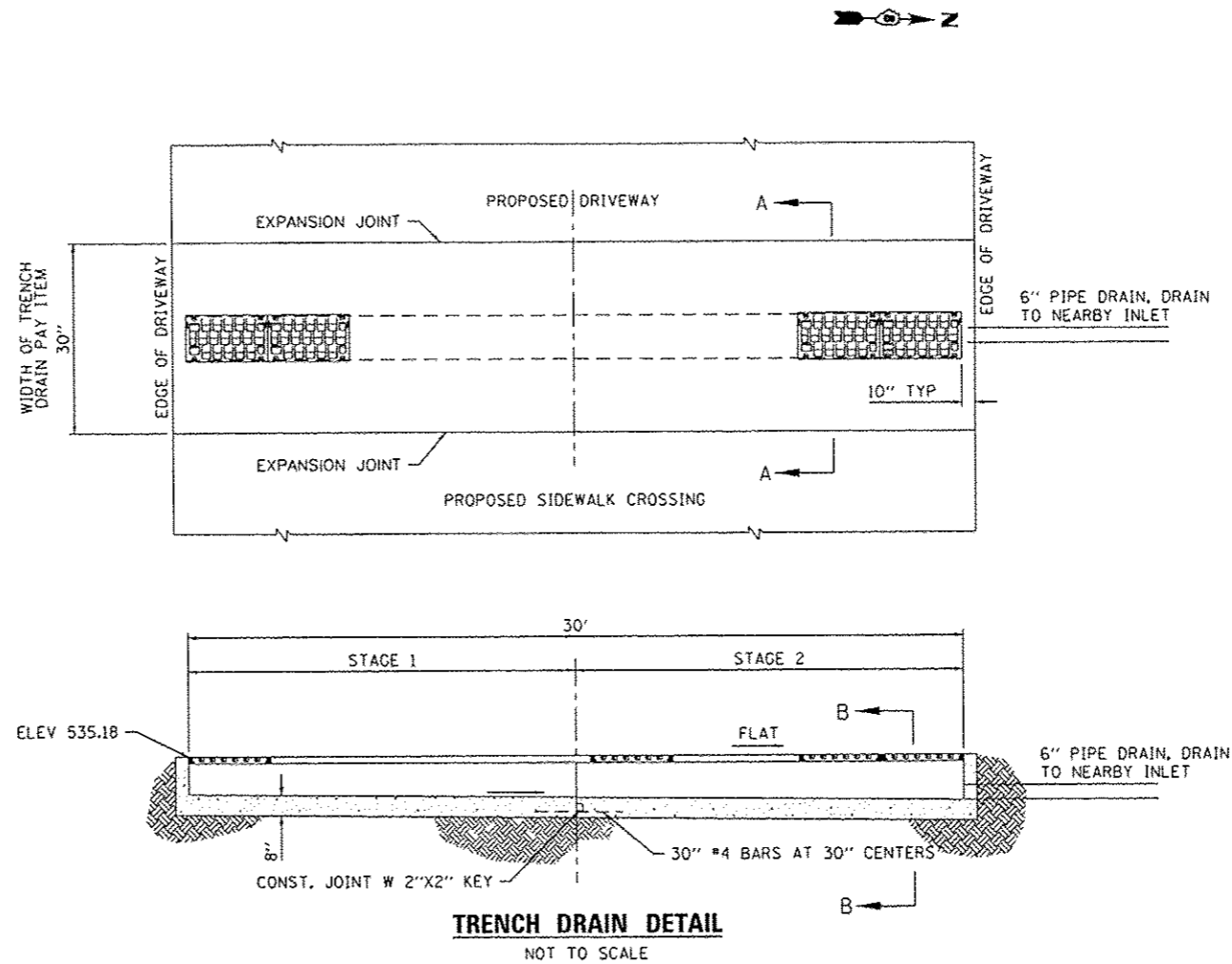
USER NAME : brian.heil	DESIGNED -	REVISED -
PLOT SCALE : 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE : 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL SHEETS**

SCALE: SHEET 3 OF 3 SHEETS STA. 96+00 TO STA. 99+95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	26
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. THE COST OF ALL LABOR AND MATERIAL (CONCRETE, POLYMER TRENCH DRAIN, REBAR, SMOOTH DOWEL BARS, ETC) SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT OF TRENCH DRAIN. THE PIPE DRAIN SHALL BE PAID FOR SEPERATELY.
2. ALL REBAR AND DOWEL BARS SHALL BE EPOXY COATED.

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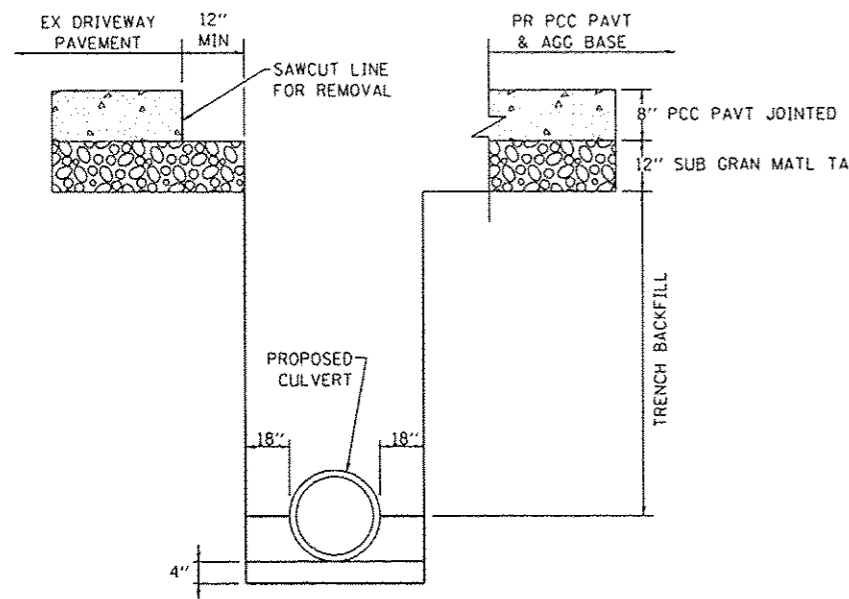
**OATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME : y.brian.heil	DESIGNED -	REVISED -
PLOT SCALE : 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE : 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

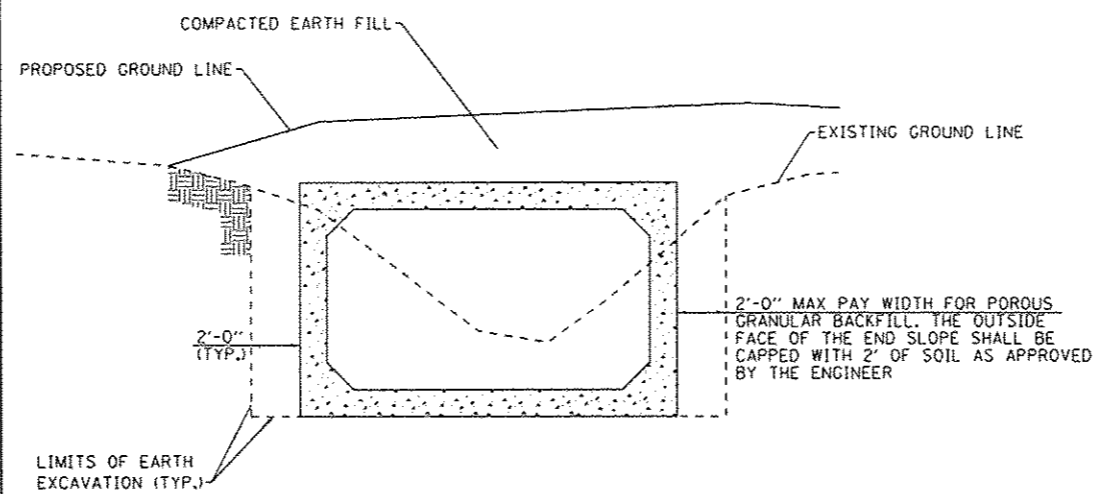
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRENCH DRAIN DETAIL</b>	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

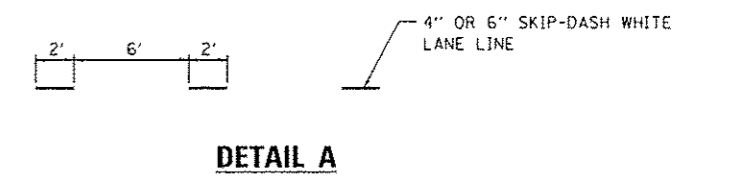
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789	12-00066-01-WR	MADISON	45	27
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				



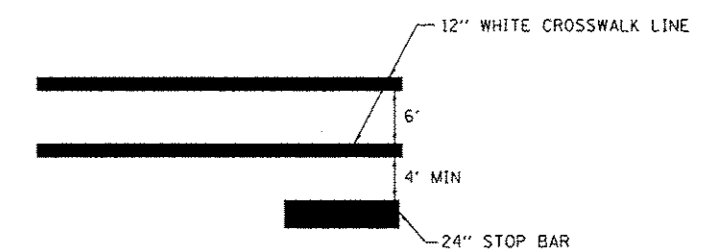
**TRENCH DETAIL FOR C.E. AT STA. 98+04 TROXLER AVE**  
(NOT TO SCALE)



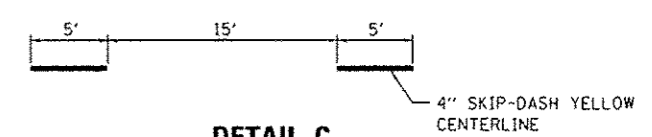
**CONCRETE BOX CULVERT**  
(NOT TO SCALE)



**DETAIL A**

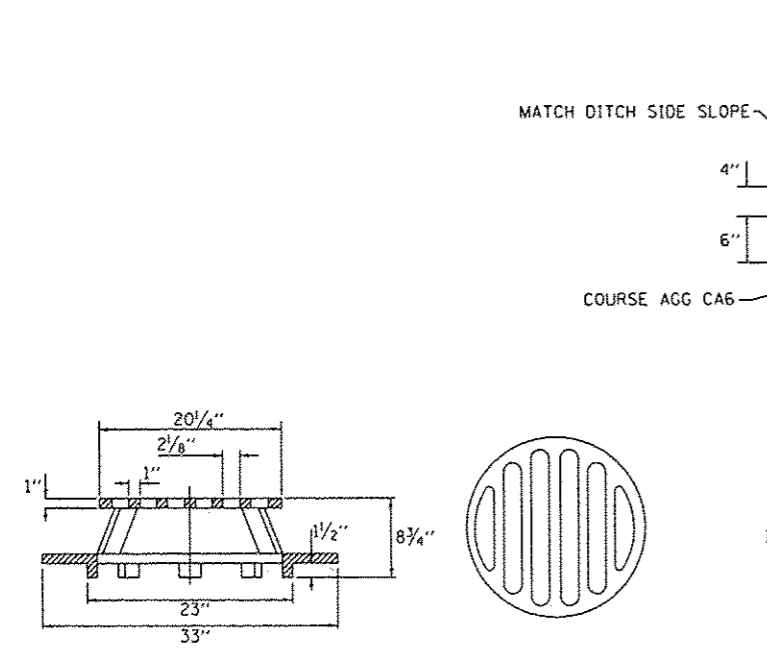


**DETAIL B**

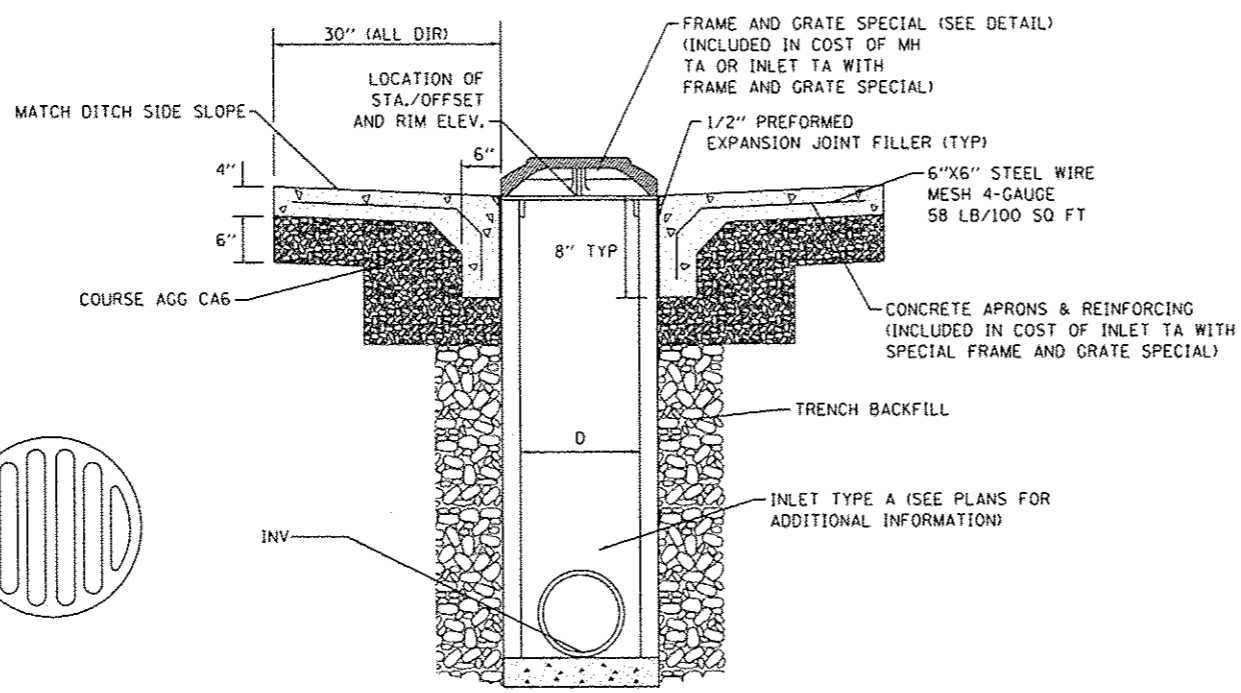


**DETAIL C**

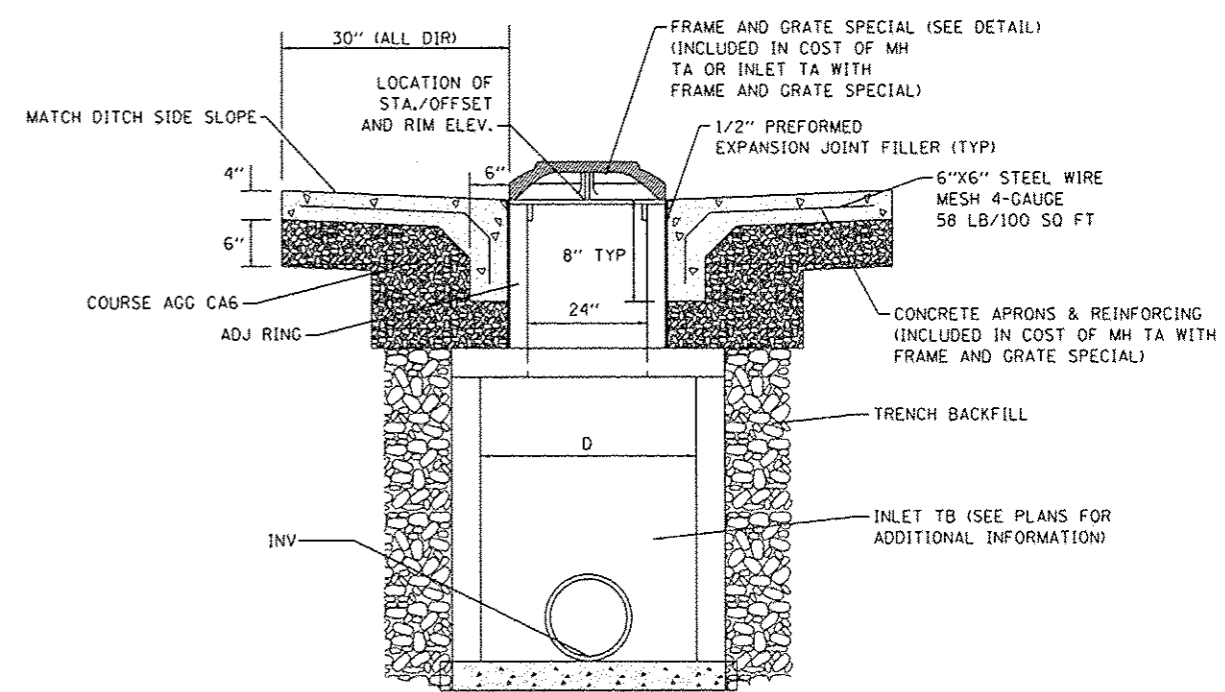
**PAVEMENT MARKINGS**



**SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)



**INLET TA WITH SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)



**INLET TB WITH SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)

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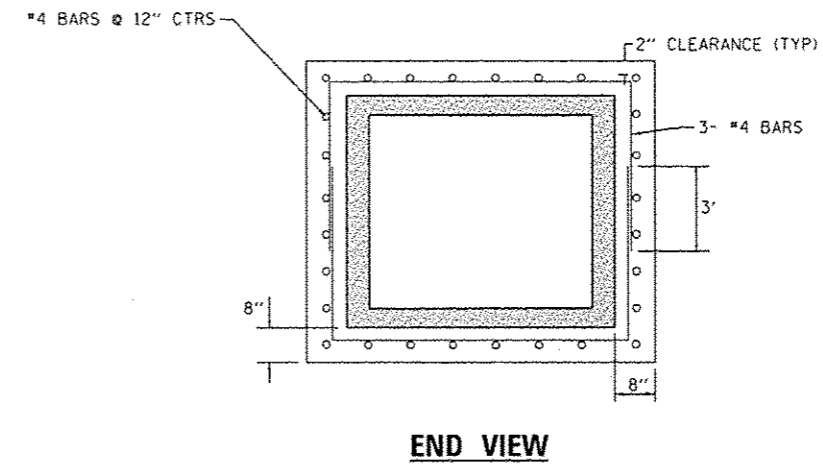
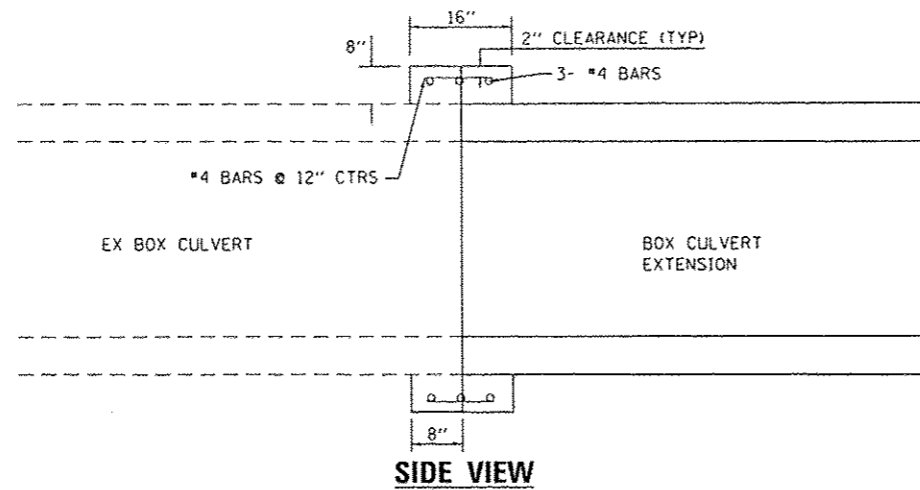


USER NAME: brcan.hesl	DESIGNED: -	REVISED: -
DRAWN: -	REVISIONS: -	
CHECKED: -	REVISIONS: -	
DATE: 2/6/2015	REVISIONS: -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 1 OF 5 SHEETS		STA. TO STA.	
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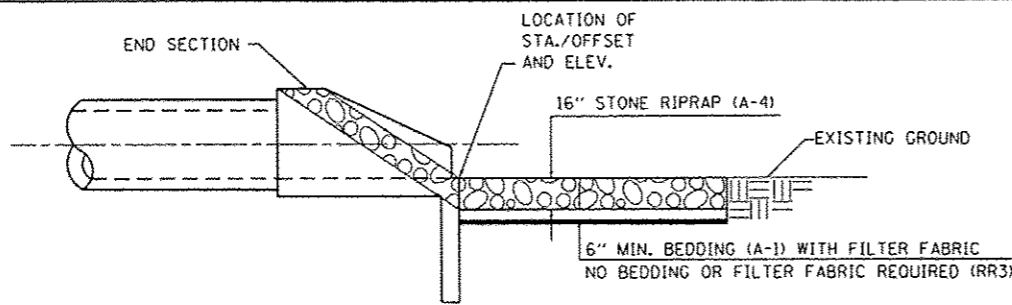
F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 28
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				



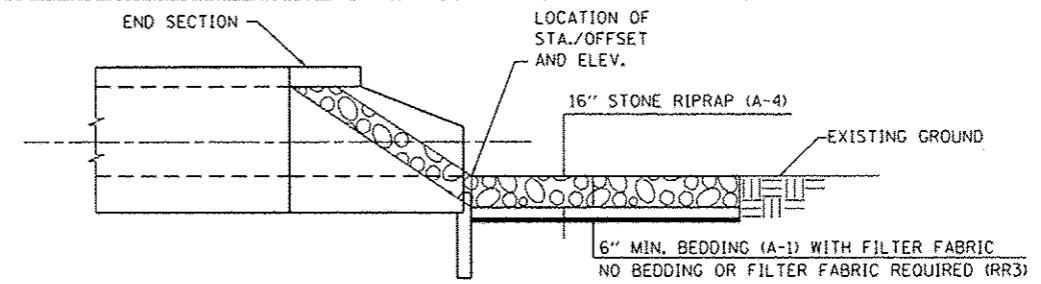
**GENERAL NOTES:**

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIMENSIONS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIMENSION. (SEE END VIEW)
3. REINFORCEMENT BARS SHALL BE EPOXY COATED AND IN ACCORDANCE WITH SECTION 508 OF THE IDOT STANDARD SPECIFICATIONS.
4. REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF CONCRETE COLLAR. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, CUBIC YARD, FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

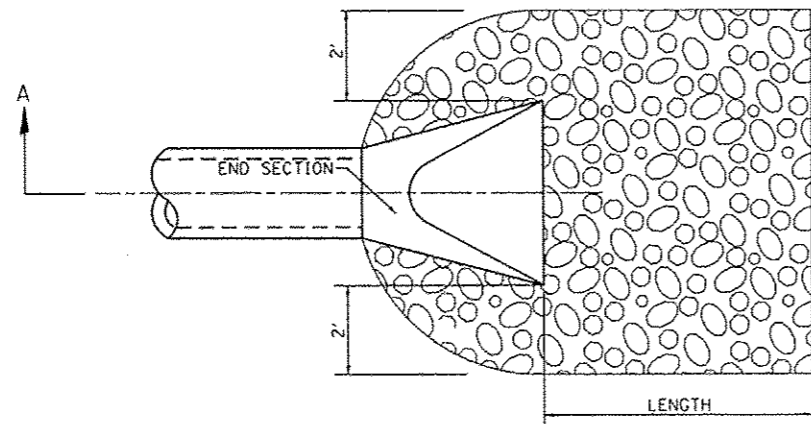
**CONCRETE COLLAR DETAIL**



**SECTION A-A**

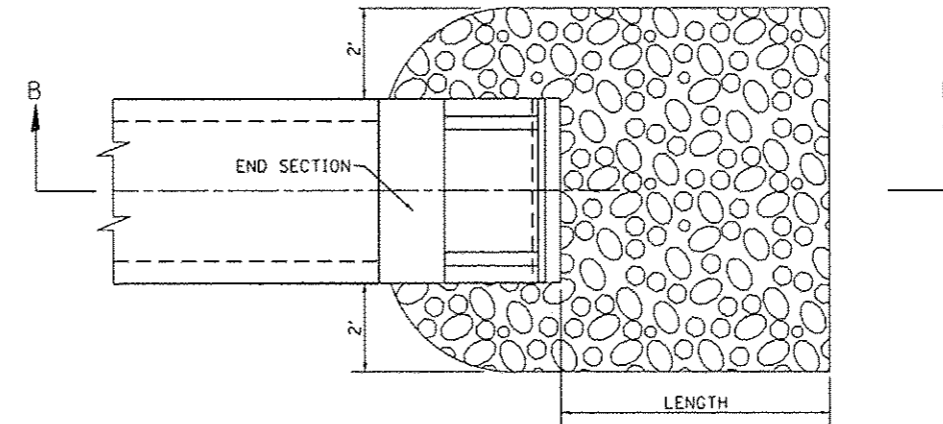


**SECTION B-B**



SEE PLAN & PROFILE SHEETS FOR LENGTH OF PROTECTION

**PIPE CULVERT**



SEE PLAN & PROFILE SHEETS FOR LENGTH OF PROTECTION

**BOX CULVERT**

**TYPICAL RIPRAP DETAIL**

FILE NAME: I:\P131251\micr-collars\collar.dwg, Sheet: 0518125-111.dwg



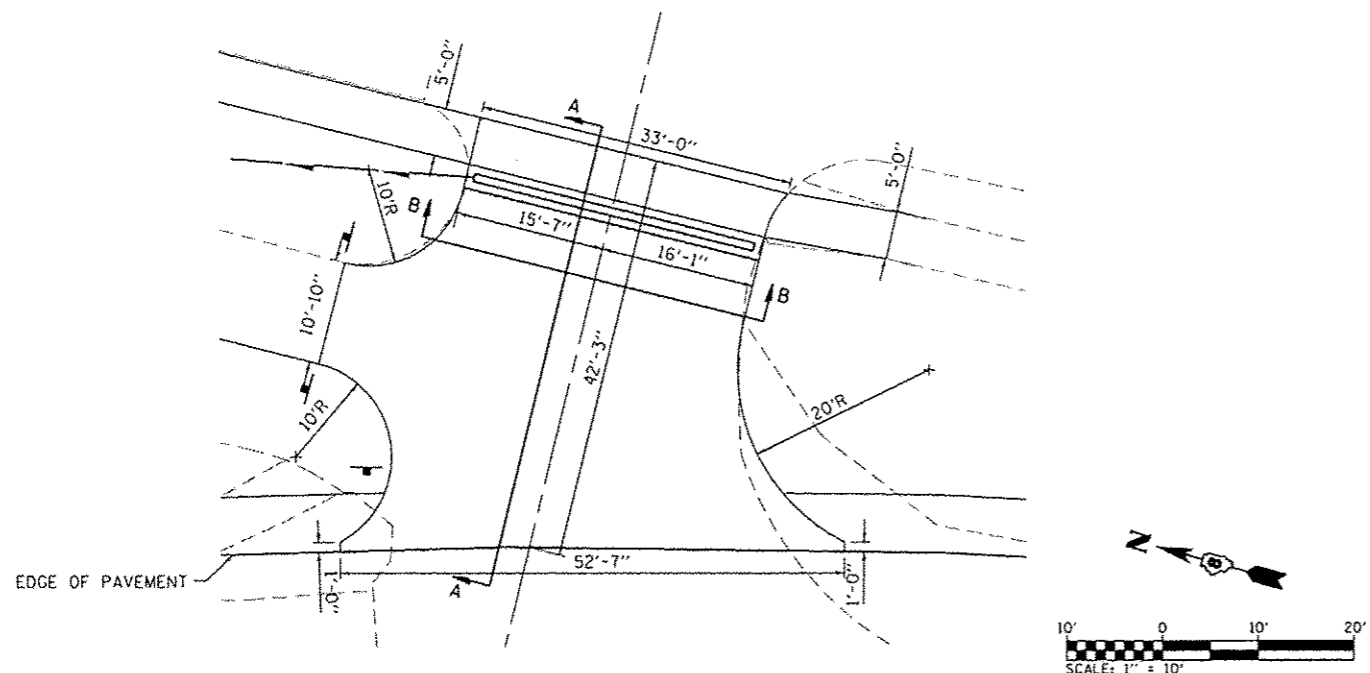
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PLOT SCALE = 40.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 2/6/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

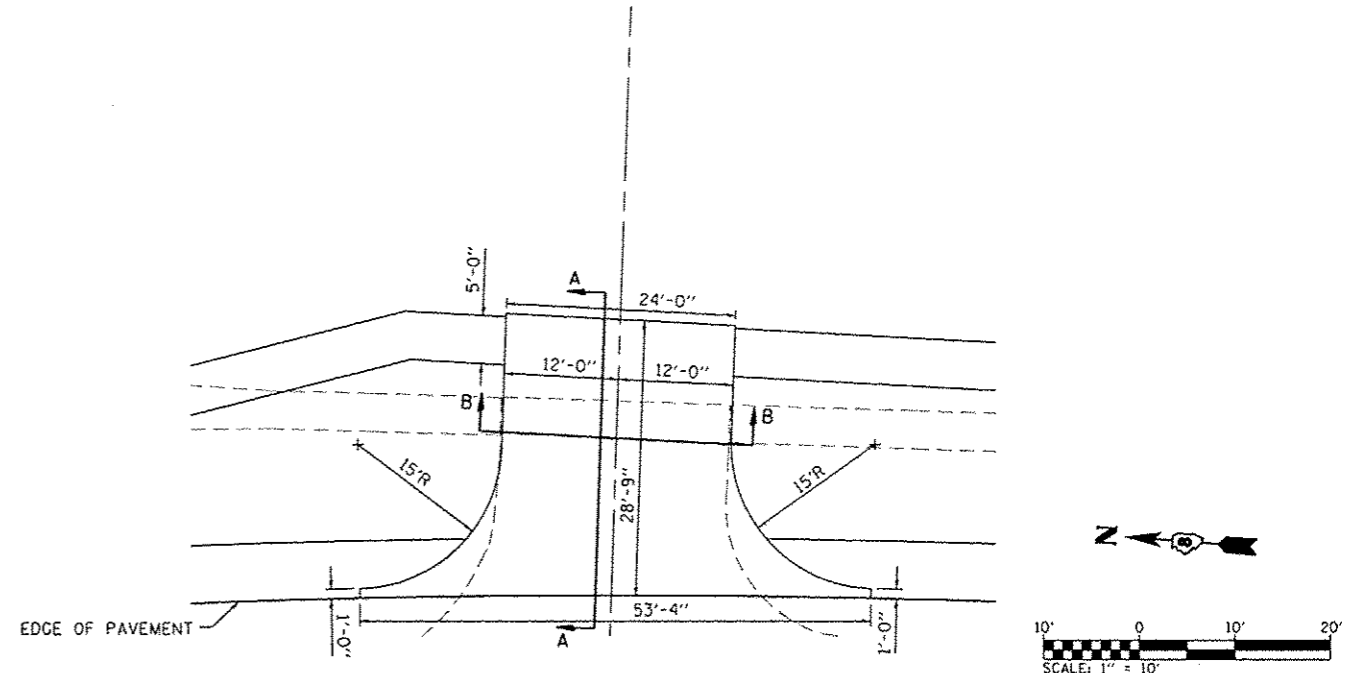
SCALE:		SHEET 2 OF 5 SHEETS		STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

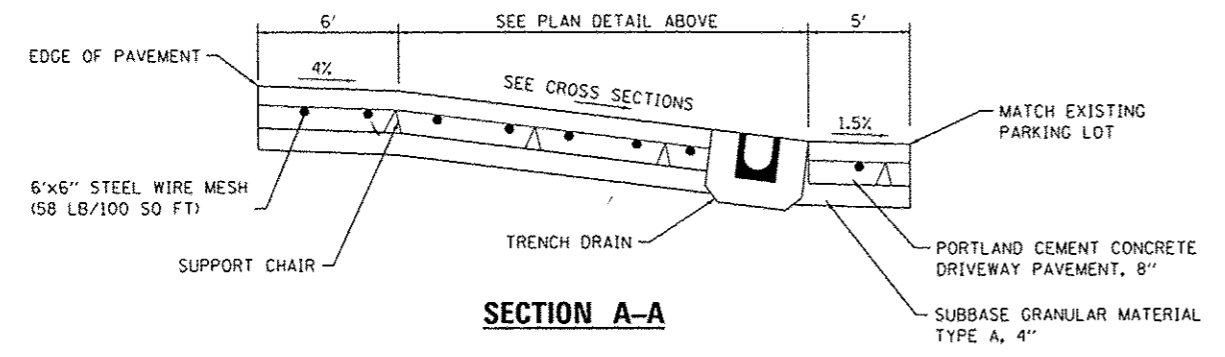




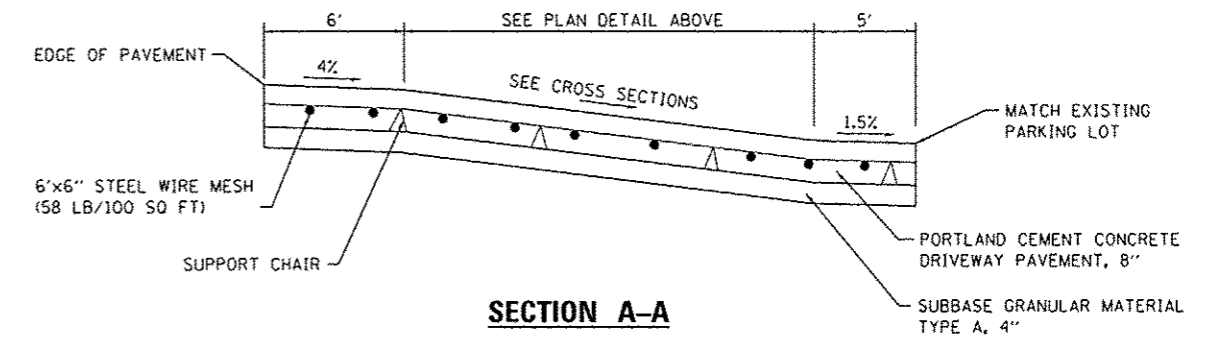
**309+64 COMMERCIAL ENTRANCE**



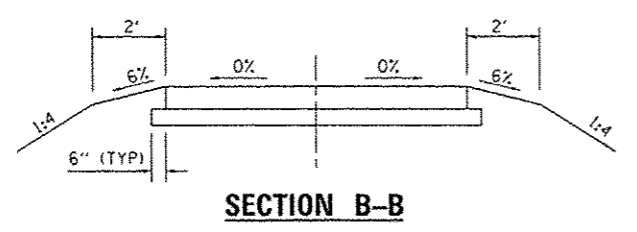
**311+19 COMMERCIAL ENTRANCE**



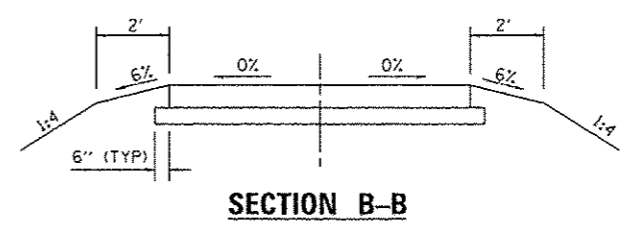
**SECTION A-A**



**SECTION A-A**



**SECTION B-B**



**SECTION B-B**

FILE NAME: H:\P\125\Microstation\CADD Sheets\010125-INT-DET-1.dgn



USER NAME: brianhail	DESIGNED: -	REVISED: -
PLOT SCALE: 20.0000" = 1"	DRAWN: -	REVISED: -
PLOT DATE: 2/6/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>			
SCALE:	SHEET 3	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	30
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

CURB & SIDEWALK PAID FOR AS PCC SIDEWALK, 4" DETECTABLE WARNINGS PAID FOR SEPERATELY. SEE SCHEDULE

FOLLOW EXISTING CONTROL JOINTS TO DETERMINE REMOVAL LIMITS WITH THE APPROVAL OF THE ENGINEER

25 SO YD AGG BASE COURSE TA 6 (FOOTPRINT OF EX ISLAND)

35 SO FT CONC MED SURF, 4"

52 LF COMB CC&G TM6.24

1 ME

2 538.09

3 <537.89> [538.39]

4 <537.90> ME [538.40]

5 ME

6 ME

7 <537.79> ME [538.29]

8 <537.65> ME [538.15]

9 537.77

53 SO FT CONC MED SURF, 4"

10 ME

11 ME

12 ME

13 ME

14 ME

15 ME

16 ME

17 ME

18 ME

19 ME

20 ME

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22 ME

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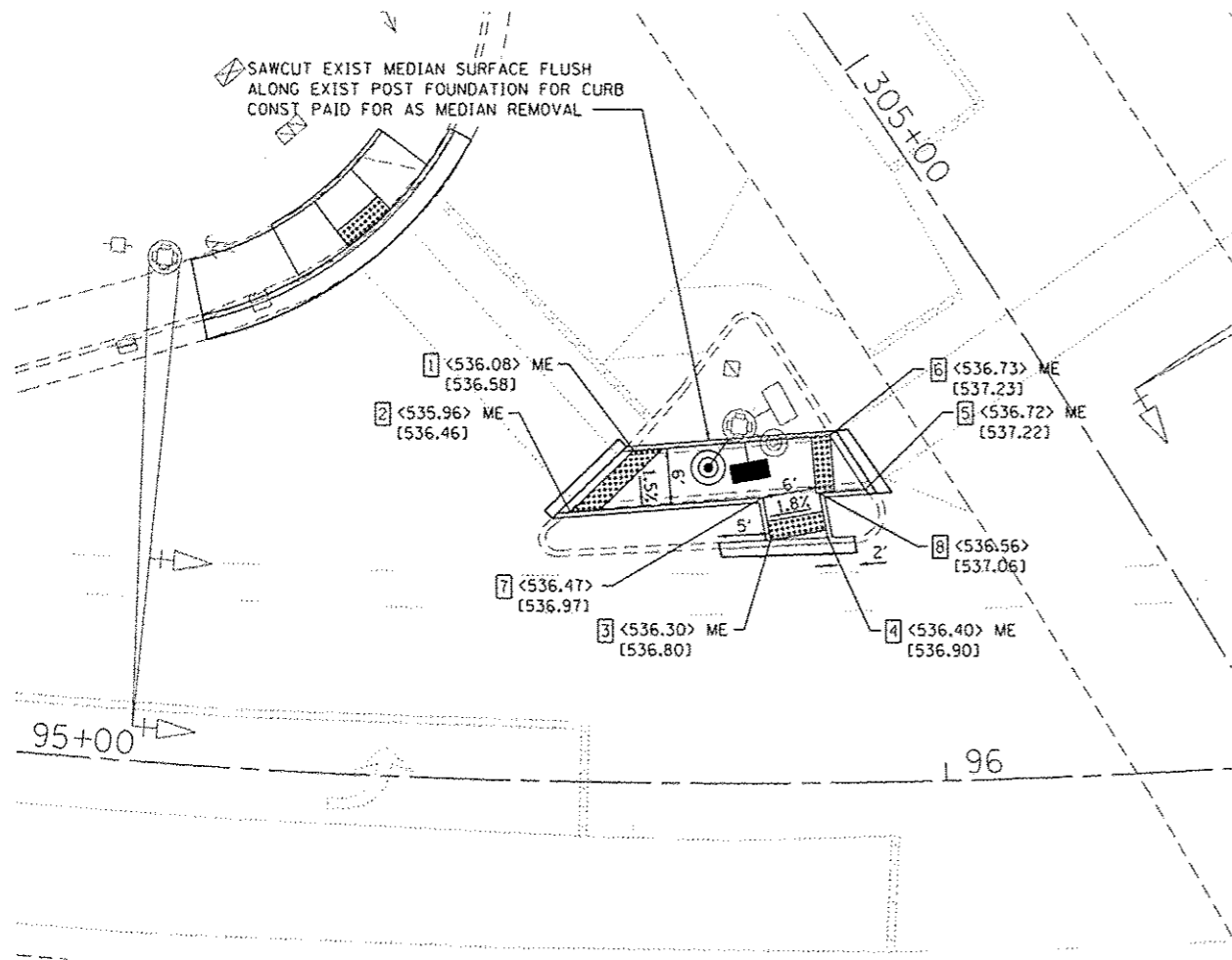
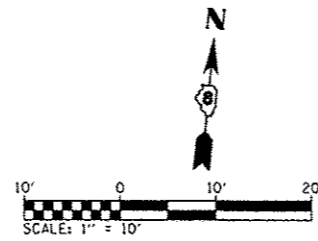
278 ME

279 ME

280 ME

281 ME

282 ME



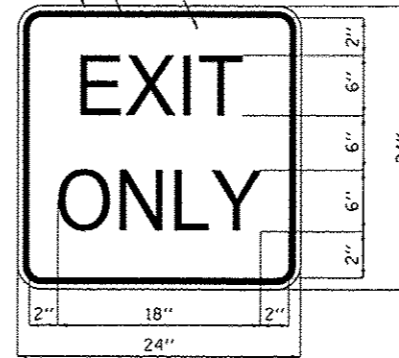
**DETAIL LEGEND**

- XXX.XX PAVEMENT GRADE
- <XXX.XX> SIDEWALK
- [XXX.XX] TOP OF CURB
- ME MATCH EXISTING
- ▽ REFLECTOR

**NW ISLAND DETAIL**

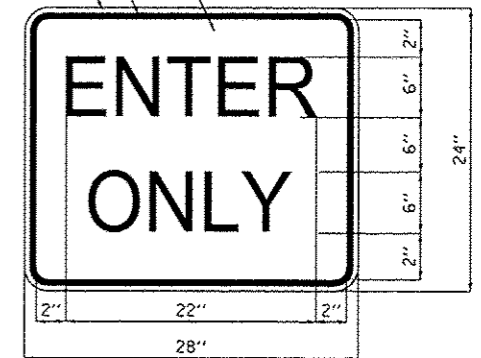
NW ISLAND		
PT NO.	STATION	OFFSET
1	+21.0	41.5' RT
2	+22.6	50.7' RT
3	+38.0	35.0' RT
4	+41.1	29.7' RT
5	+38.5	23.1' RT
6	+31.5	23.1' RT
7	+33.1	32.7' RT
8	+36.1	27.4' RT

WHITE BACKGROUND WITH  
BLACK LETTERS  
5/8" BLACK BORDER  
3/8" WHITE BORDER



**R5-1X-1**

WHITE BACKGROUND WITH  
BLACK LETTERS  
5/8" BLACK BORDER  
3/8" WHITE BORDER



**R5-1X-2**

**SIGN DETAILS**  
(NOT TO SCALE)

FILE NAME: H:\P\B125\Microstation\CADD\_Sheets\B125-MT-deta1.dgn



USER NAME: brian.hall	DESIGNED: -	REVISED: -
PLOT SCALE: 20.0000' / 1"	DRAWN: -	REVISED: -
PLOT DATE: 2/6/2015	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**DETAILS**

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 31A
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation  
Division of Highways  
Geotechnical, Inc.

SOIL BORING LOG

Page 1 of 1

Date 2/28/14

ROUTE IL 143 DESCRIPTION Mast Arm Foundation LOGGED BY JRC  
SECTION 12-00066-01-WR LOCATION SEC. 32, TWP. 4N, RNG. 5W  
COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.	DEPTHS	BLOWS	UCS	MOISTURE	Surface Water Elev. Not Observed	Stream Bed Elev. Not Observed	DEPTHS	BLOWS	UCS	MOISTURE
BORING NO. B-2					Groundwater Elev.:					
Station 308+85					First Encounter Not Observed					
Offset 68.00ft LT					Upon Completion Not Observed					
Ground Surface Elev. 536.00 ft	(ft)	(/ft)	(tsf)	(%)	After N/A Days	N/A ft	(ft)	(/ft)	(tsf)	(%)
Topsoil - 4 inches					Dry Density= 120 pcf, QU=0.96 tsf	515.50				
Brown CLAY (FILL) with crushed rock (A-7)	3				Very stiff, brown CLAY (TILL) with gravel (A-7)		6			
	5	3.5	21.0				10	4.5	15.0	
	4	P					12	B		
	3						5			
LL=44, PL=24, PI=24	4	1.0	21.0				9	4.5	17.0	
Grain Size Analysis Conducted	5	P					12	B		
530.50					Boring terminated at 25 feet.	511.00				
Medium stiff, brown to gray, SILTY CLAY (A-7)	3				End of Boring					
LL=49, PL=20, PI=29	3	1.5	26.0							
Grain Size Analysis Conducted	4	B								
8 to 10 feet, 3-inch Shelby Tube, No Recovery										
	-10									
524.50	2									
Medium stiff, brown to gray CLAY, trace gravel (A-7)	3	1.1	23.0							
	4	B								
	3									
	3	2.0	21.0							
	-10	3	B							
	2									
	3	1.0	26.0							
	4	B								
Gray										
18 to 20 feet, 3-inch Shelby Tube, Recovery 24 inches,										
	-20									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
Geotechnical, Inc.

SOIL BORING LOG

Page 1 of 1

Date 2/28/14

ROUTE Trozler Ave DESCRIPTION Roadway Subgrade LOGGED BY JRC  
SECTION 12-00066-01-WR LOCATION SEC. 32, TWP. 4N, RNG. 5W  
COUNTY Madison DRILLING METHOD Hand HAMMER TYPE

STRUCT. NO.	DEPTHS	BLOWS	UCS	MOISTURE	Surface Water Elev. Not Observed	Stream Bed Elev. Not Observed	DEPTHS	BLOWS	UCS	MOISTURE
BORING NO. HA-3					Groundwater Elev.:					
Station 98+44					First Encounter Not Observed					
Offset 29.00ft LT					Upon Completion Not Observed					
Ground Surface Elev. 536.00 ft	(ft)	(/ft)	(tsf)	(%)	After N/A Days	N/A ft	(ft)	(/ft)	(tsf)	(%)
Obstruction encountered in fill.										
	536.00									
Dynamic Cone Penetrometer (DCP) Test Conducted from 0 to 36 inches.										
Boring terminated at 1.0 feet.										
End of Boring										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

FILE NAME: H:\P\1125\Microstation\CADD\_Sheets\0818125\_sht-borings.dgn

DATES ASSOCIATES  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME	DESIGNED	REVISED
PLLOT SCALE	CHECKED	REVISED
PLOT DATE	DRAWN	REVISED
	CHECKED	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	32
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	



# SOIL BORING LOG

Date 2/28/14

ROUTE IL 143 DESCRIPTION Roadway Subgrade LOGGED BY JRG  
 SECTION 12-00066-01-WR LOCATION SEC. 32, TWP. 4N, RNG. 5W  
 COUNTY Madison DRILLING METHOD Hand HAMMER TYPE

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Not Observed ft	
					Stream Bed Elev. Not Observed ft	Groundwater Elev.:
						First Encounter Not Observed ft
						Upon Completion Not Observed ft
						After N/A Days N/A ft
Topsoil - 3 inches					536.75	
Brown, SILTY LOAM (FILL), trace crushed rock (A-6)			22.9			
LL=39, PL=22, PI=17			23.6		535.00	
Grayish-brown, SILTY CLAY LOAM (FILL) with crushed rock (A-7)			21.1			
			20.1			
Dynamic Cone Penetrometer (DCP) Test Conducted from 0 to 36 inches. Boring terminated at 4.5 feet. End of Boring					532.50	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

Date 2/28/14

ROUTE IL 143 DESCRIPTION Roadway Subgrade LOGGED BY JRG  
 SECTION 12-00066-01-WR LOCATION SEC. 32, TWP. 4N, RNG. 5W  
 COUNTY Madison DRILLING METHOD Hand HAMMER TYPE

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Not Observed ft	
					Stream Bed Elev. Not Observed ft	Groundwater Elev.:
						First Encounter Not Observed ft
						Upon Completion Not Observed ft
						After N/A Days N/A ft
Topsoil - 3 inches					537.55	
Grayish-brown, SILTY CLAY (FILL), trace crushed rock (A-6)			22.2			
LL=40, PL=22, PI=18			23.0			
Grain Size Analysis Conducted			25.5		535.55	
Brown, SANDY LOAM (FILL) with crushed rock (A-2-B)			14.5			
Dynamic Cone Penetrometer (DCP) Test Conducted from 0 to 36 inches. Boring terminated at 4.5 feet. End of Boring					533.30	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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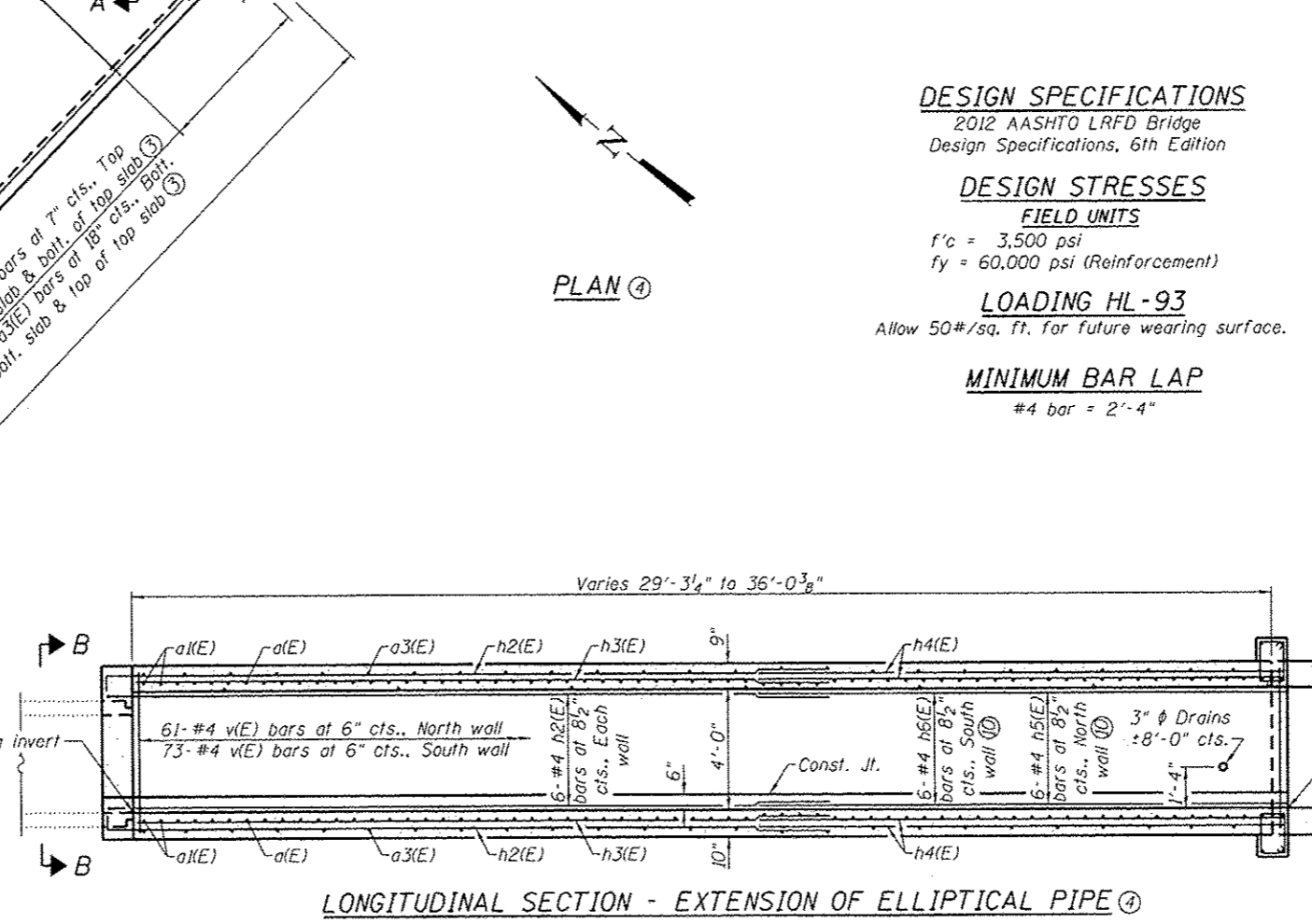
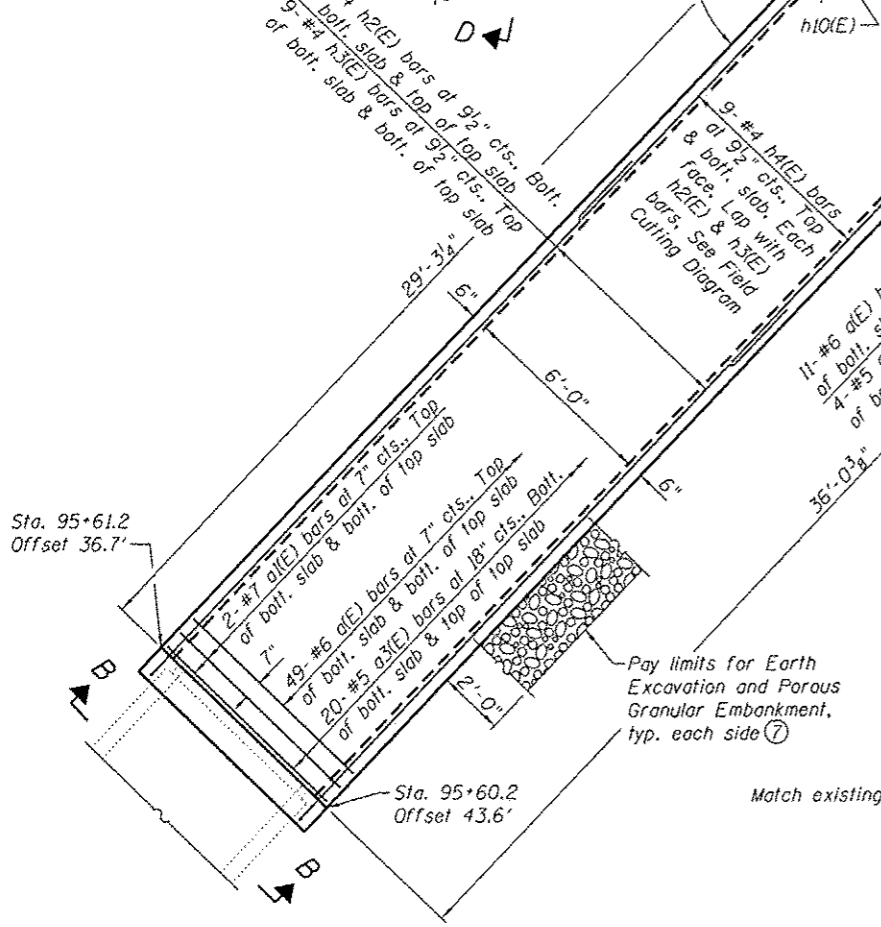
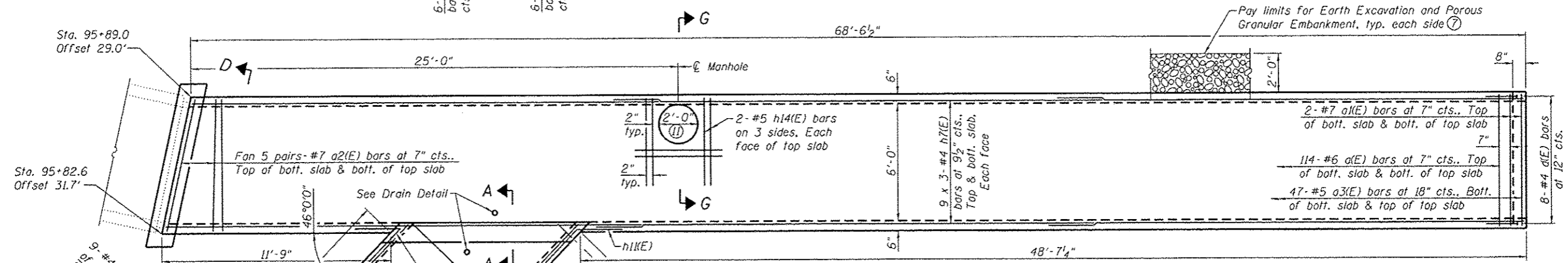
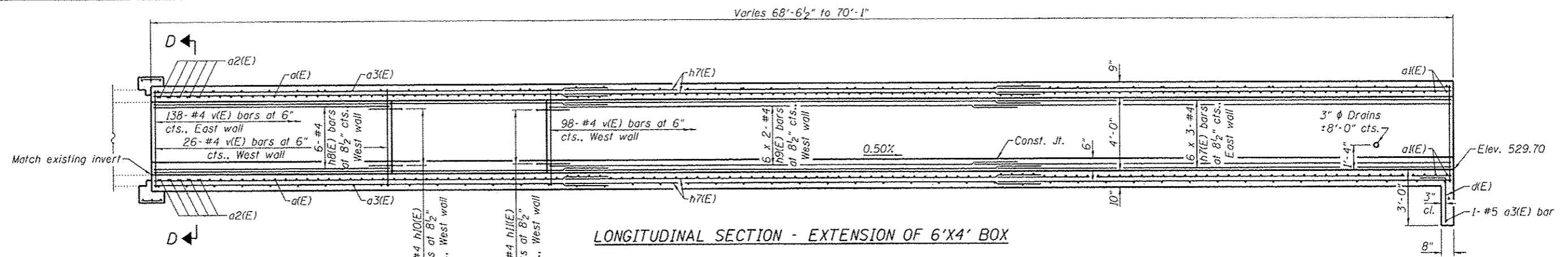
USER NAME	DESIGNED -	REVISED -
PLOT SCALE	CHECKED -	REVISED -
PLOT DATE	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## SOIL BORING LOGS

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	33
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	



**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**MINIMUM BAR LAP**  
#4 bar = 2'-4"

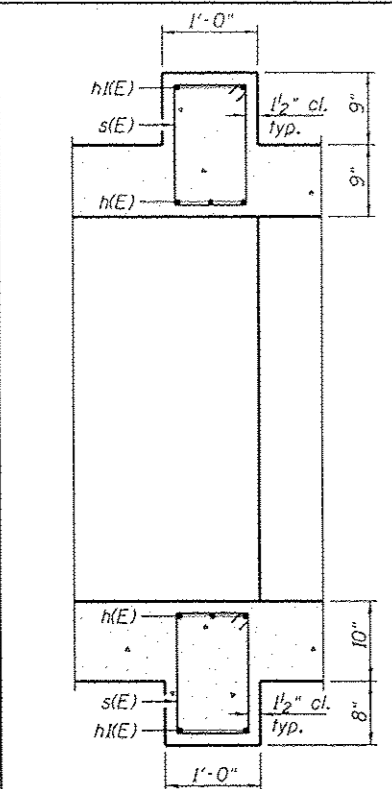
- Notes:
- Reinforcement bars designated (E) shall be epoxy coated.
  - Bars indicated thus 9 x 3-#4 etc. indicates 9 lines of bars with 3 lengths per line.
  - Order a(E) and a3(E) bars full length and cut to fit. Use remainder of bars in top slab.
  - For headwall reinforcement, see Headwall Plan and Section A-A.
  - For Headwall Plan, Section A-A, View B-B, View D-D, Section Thru Barrel, bar details, Field Cutting Diagram, Drain Detail and Bill of Material, see sheet 2 of 2.
  - Station and offsets are with respect to Koepfli Lane.
  - Box culverts shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert and not closer than 2 ft from the face of embankment.
  - For quantity of Earth Excavation, see roadway plans.
  - Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications. Cost shall be included in the cost of Concrete Box Culverts.
  - Lap with h2(E) bars.
  - Formed manhole in top slab. Cut slab reinforcement as directed by the Engineer. For details of manhole cover, see roadway plans.

I certify that to the best of knowledge, information and belief, this box culvert 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 the requirements of the current AASHTO LRFD Bridge Design specifications.

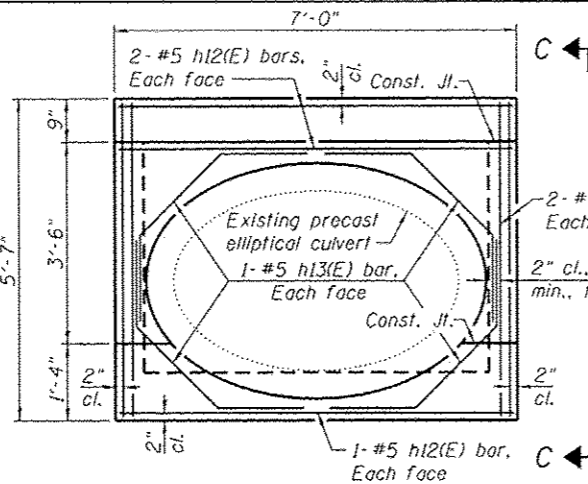
Professional Engineer Seal for Jason Oreyer, License No. 081 007307, State of Illinois. Signature of Jason Oreyer. DATE: 2/2/2015. EXPIRATION: 11/30/2016.

USER NAME *	DESIGNED - JAD	REVISIONS
PLOT SCALE *	CHECKED - SUN	REVISIONS
PLOT DATE *	DRAWN - JAD	REVISIONS
	CHECKED - SUN	REVISIONS

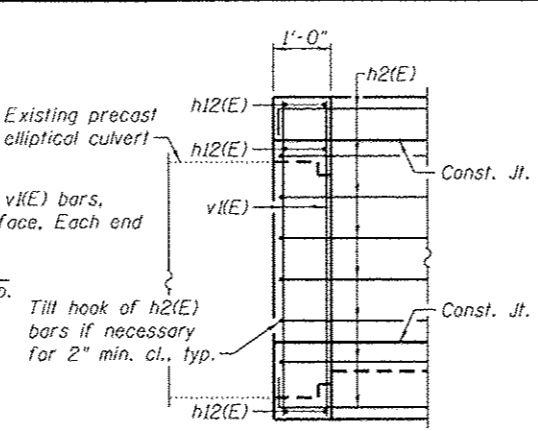
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	44	34
CONTRACT NO. 97583			ILLINOIS FEB. AID PROJECT	



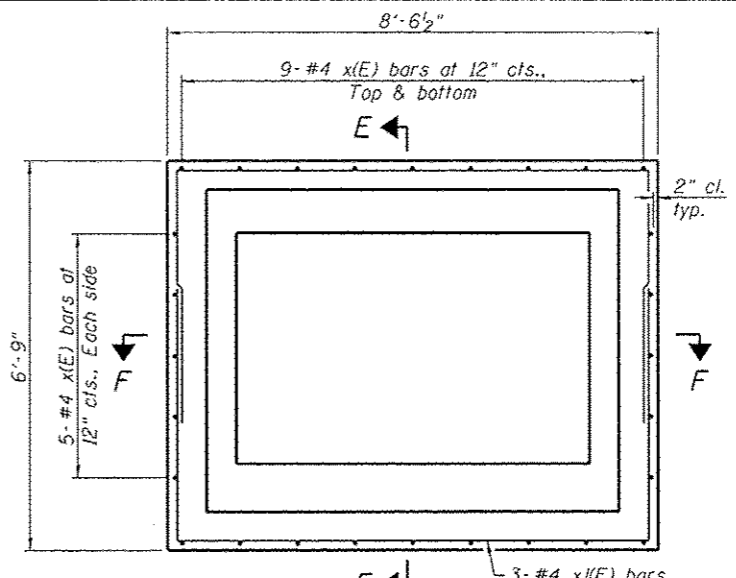
**SECTION A-A**  
(Slab reinforcement not shown for clarity)



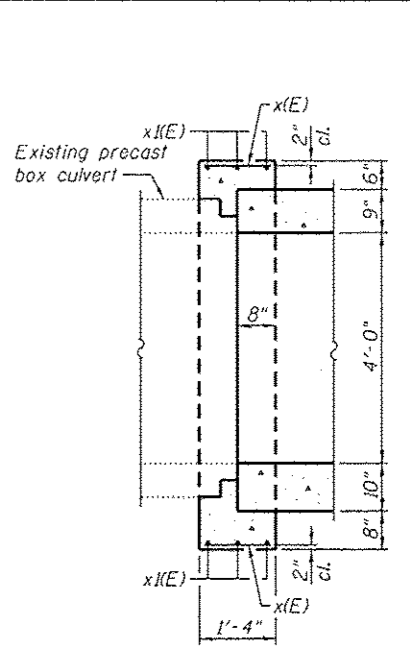
**VIEW B-B**  
(Slab reinforcement not shown for clarity)



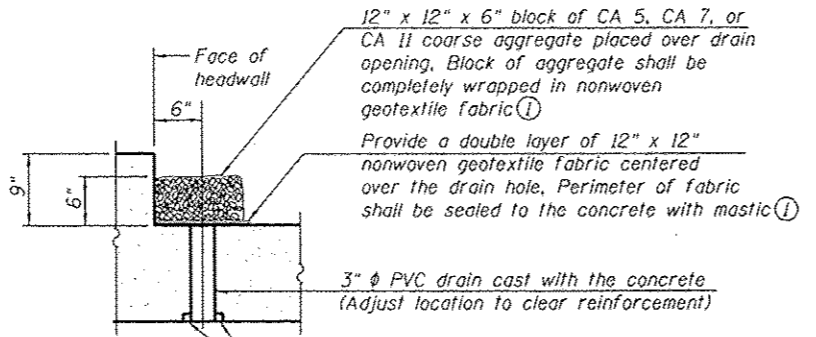
**VIEW C-C**



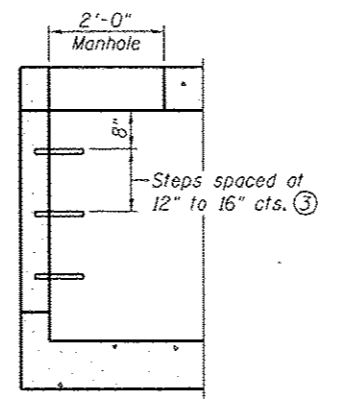
**VIEW D-D**  
(Slab reinforcement not shown for clarity)



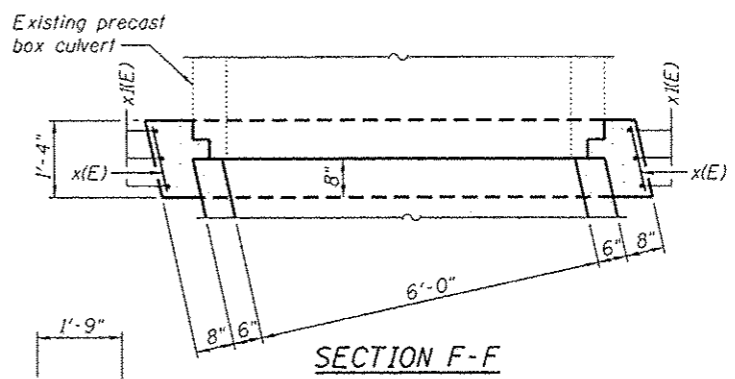
**SECTION E-E**



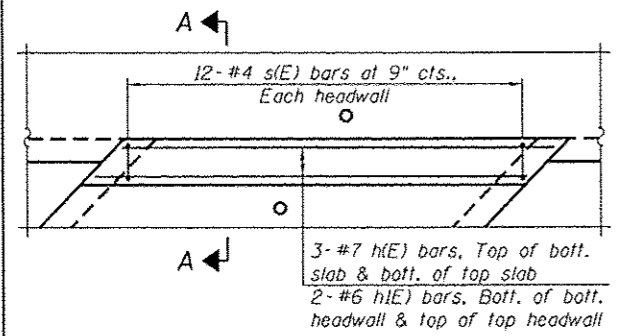
**DRAIN DETAIL**



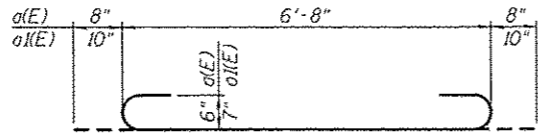
**SECTION G-G**



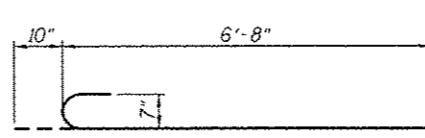
**SECTION F-F**



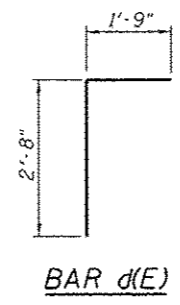
**HEADWALL PLAN**



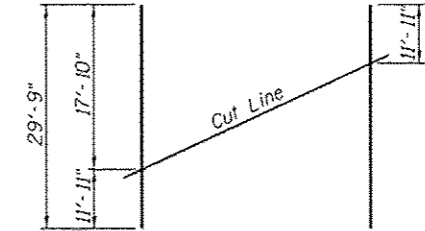
**BARS a(E) & a1(E)**



**BAR a2(E)**

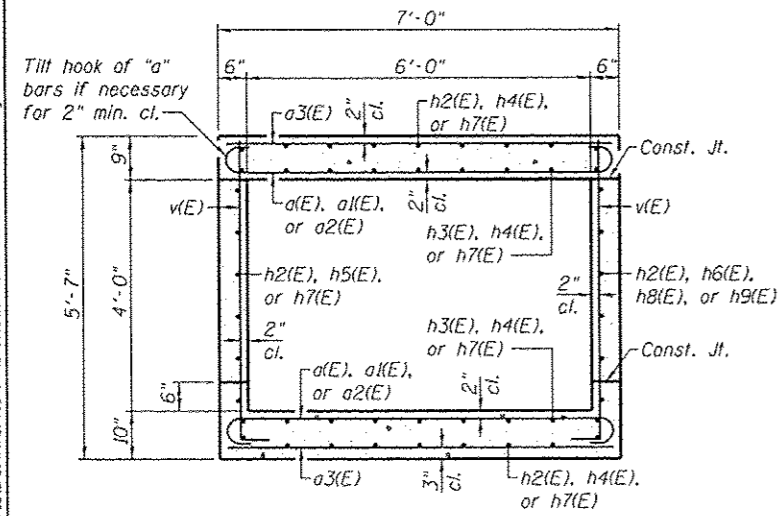


**BAR d(E)**

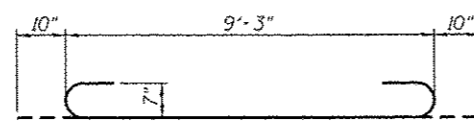


**FIELD CUTTING DIAGRAM**

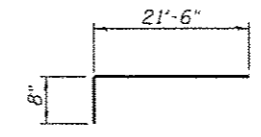
Order h4(E) bars full length. Cut as shown and use remainder of bars in opposite face of slab.



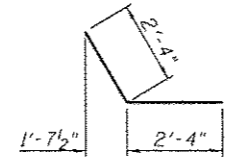
**SECTION THRU BARREL**  
(Looking East - Elliptical Extension)  
(Looking South - Box Extension)



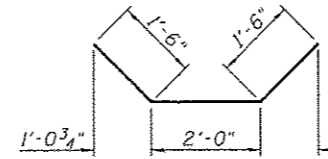
**BAR h(E)**



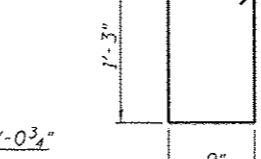
**BAR h2(E)**



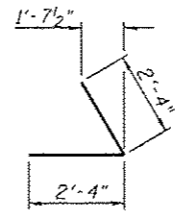
**BAR h1(E)**



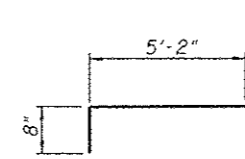
**BAR h13(E)**



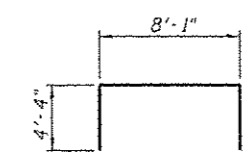
**BAR s(E)**



**BAR h10(E)**



**BAR v(E)**



**BAR x(E)**

**BILL OF MATERIAL**

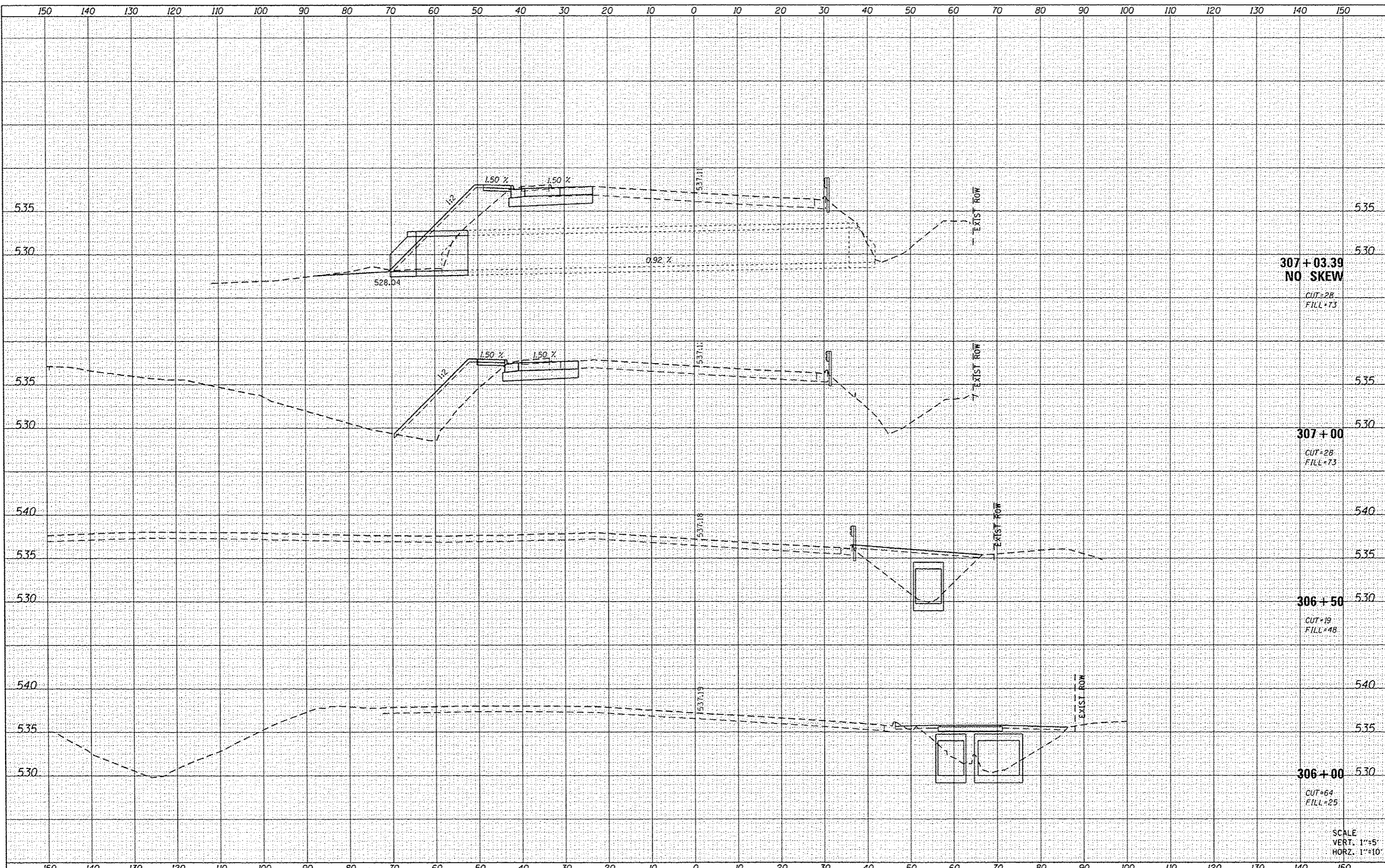
Bar	No.	Size	Length	Shape
a(E)	337	#6	8'-0"	C
a1(E)	8	#7	8'-4"	C
a2(E)	20	#7	7'-6"	C
a3(E)	139	#5	6'-8"	—
d(E)	8	#4	4'-5"	L
h(E)	6	#7	10'-11"	C
h1(E)	4	#6	9'-3"	—
h2(E)	30	#4	22'-2"	L
h3(E)	18	#4	20'-6"	—
h4(E)	18	#4	29'-9"	—
h5(E)	6	#4	11'-9"	—
h6(E)	6	#4	18'-0"	—
h7(E)	126	#4	24'-9"	—
h8(E)	6	#4	12'-3"	—
h9(E)	12	#4	25'-6"	—
h10(E)	6	#4	4'-8"	L
h11(E)	6	#4	4'-8"	L
h12(E)	6	#5	6'-8"	—
h13(E)	8	#5	5'-0"	U
h14(E)	12	#5	5'-0"	—
s(E)	24	#4	4'-9"	□
v(E)	396	#4	5'-10"	L
v1(E)	8	#5	5'-3"	—
x(E)	28	#4	1'-0"	—
x1(E)	6	#4	16'-9"	□
Porous Granular Embankment		Cu. Yd.	63	
Reinforcement Bars, Epoxy Coated		Pound	11,110	
Concrete Box Culverts		Cu. Yd.	59.5	

- Notes:  
 ① Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 ② All costs associated with furnishing and constructing the drain detail shall be included in the cost of Concrete Box Culverts.  
 ③ For details of manhole steps, see Highway Standard 602701. Cost included with Concrete Box Culverts.



DATE	
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FILE NAME: H:\P\10125\Microstation\CADD Sheets\0010125-sh1  
 USER NAME: brian.heil  
 PLOT SCALE: 20.0000" / in.  
 PLOT DATE: 2/6/2015

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL 143  
 SCALE: SHEET 1 OF 5 SHEETS STA. 306+00 TO STA. 307+03.39

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	36
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	

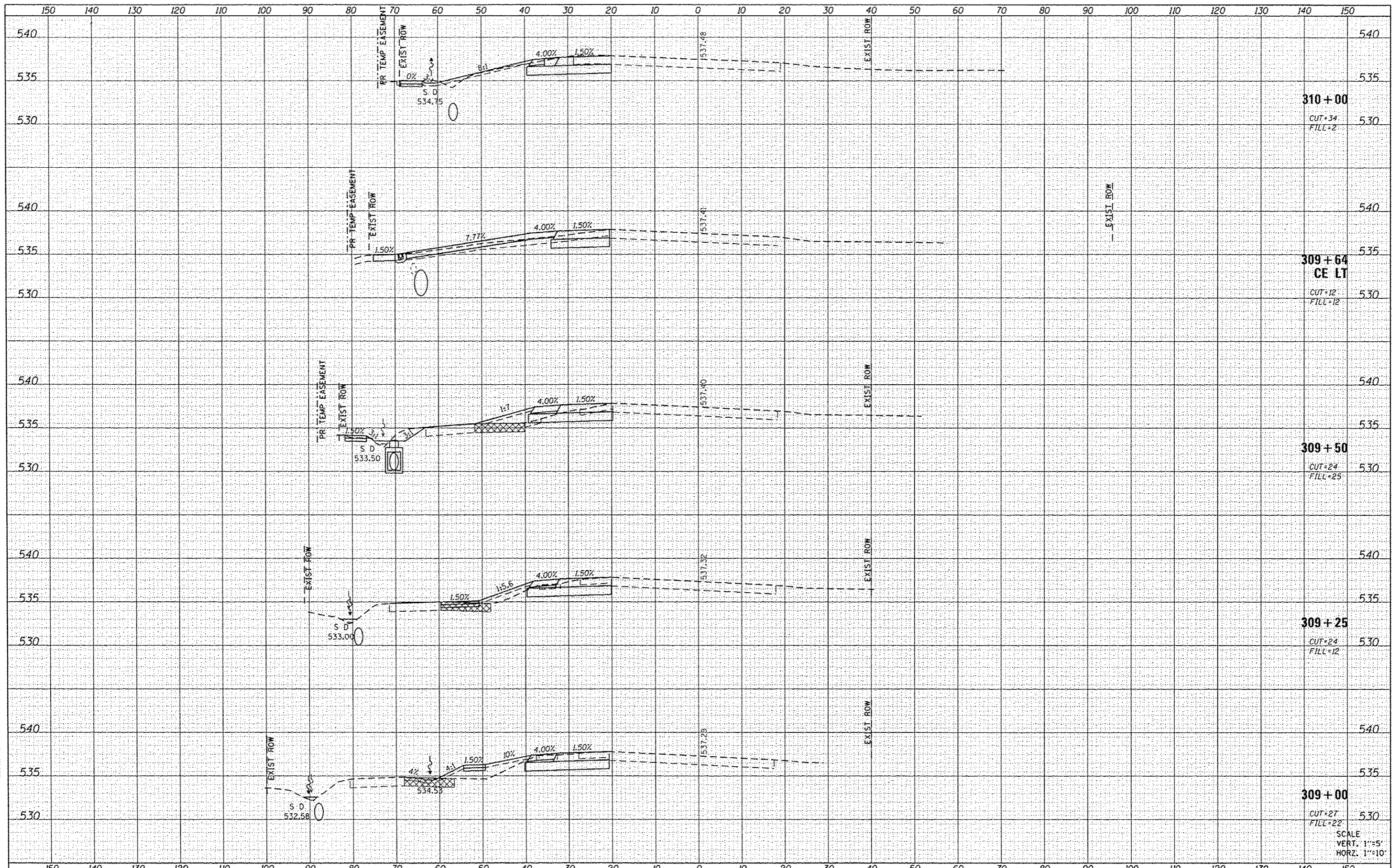
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 HORIZ. 1"=10'





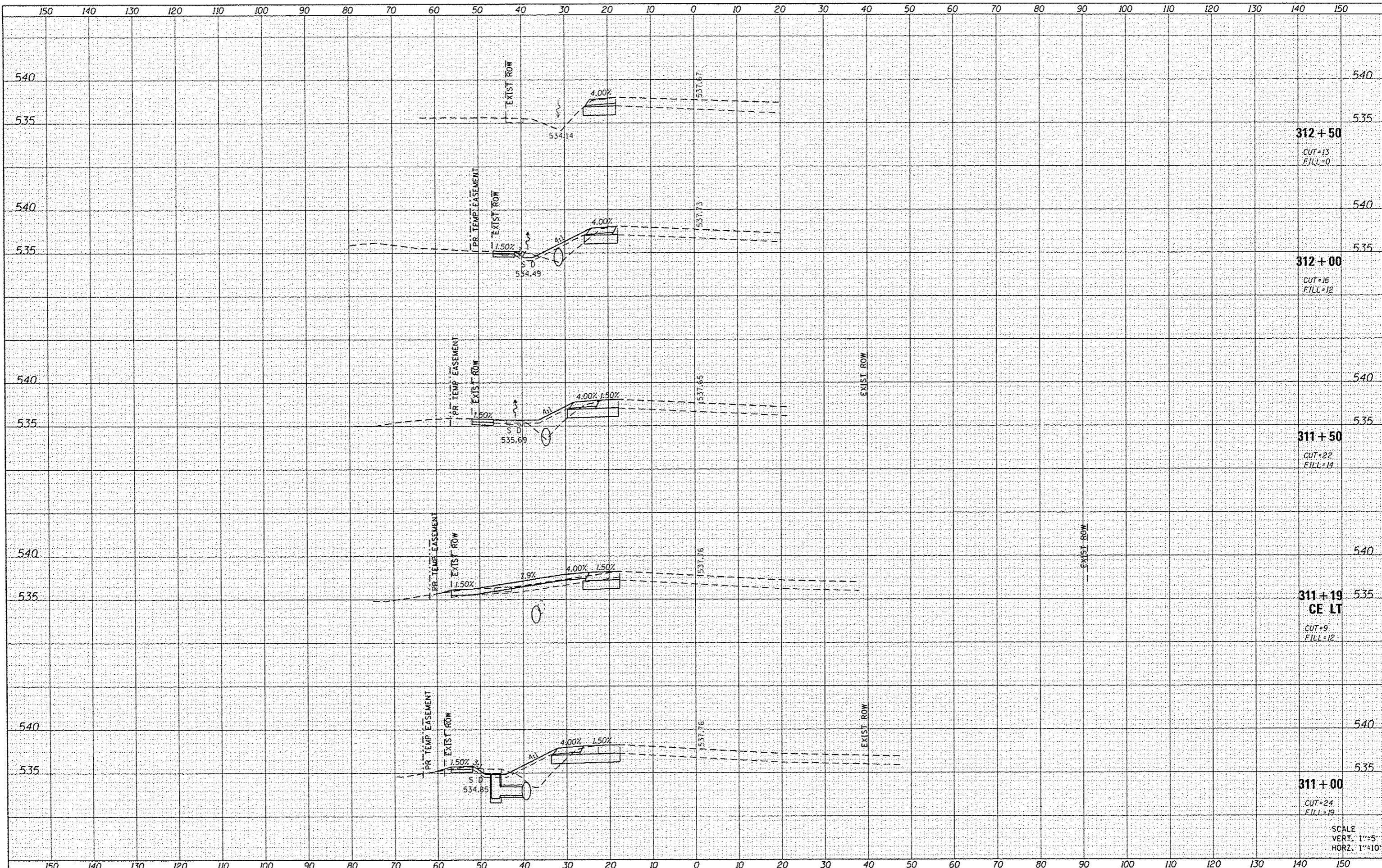
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BY	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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









DATE	
BY	
STARTED	
SURVEY	
NOTE BOOK	
NO.	
PLATE	
AREAS CHECKED	

DATE	
BY	
STARTED	
SURVEY	
NOTE BOOK	
NO.	
PLATE	
AREAS CHECKED	

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 USER NAME = brian.hall  
 FLOT SCALE = 28.0000' / in.  
 PLOT DATE = 2/6/2015

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL 143  
 SCALE: SHEET 5 OF 5 SHEETS STA. 311+00 TO STA. 312+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	40
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				

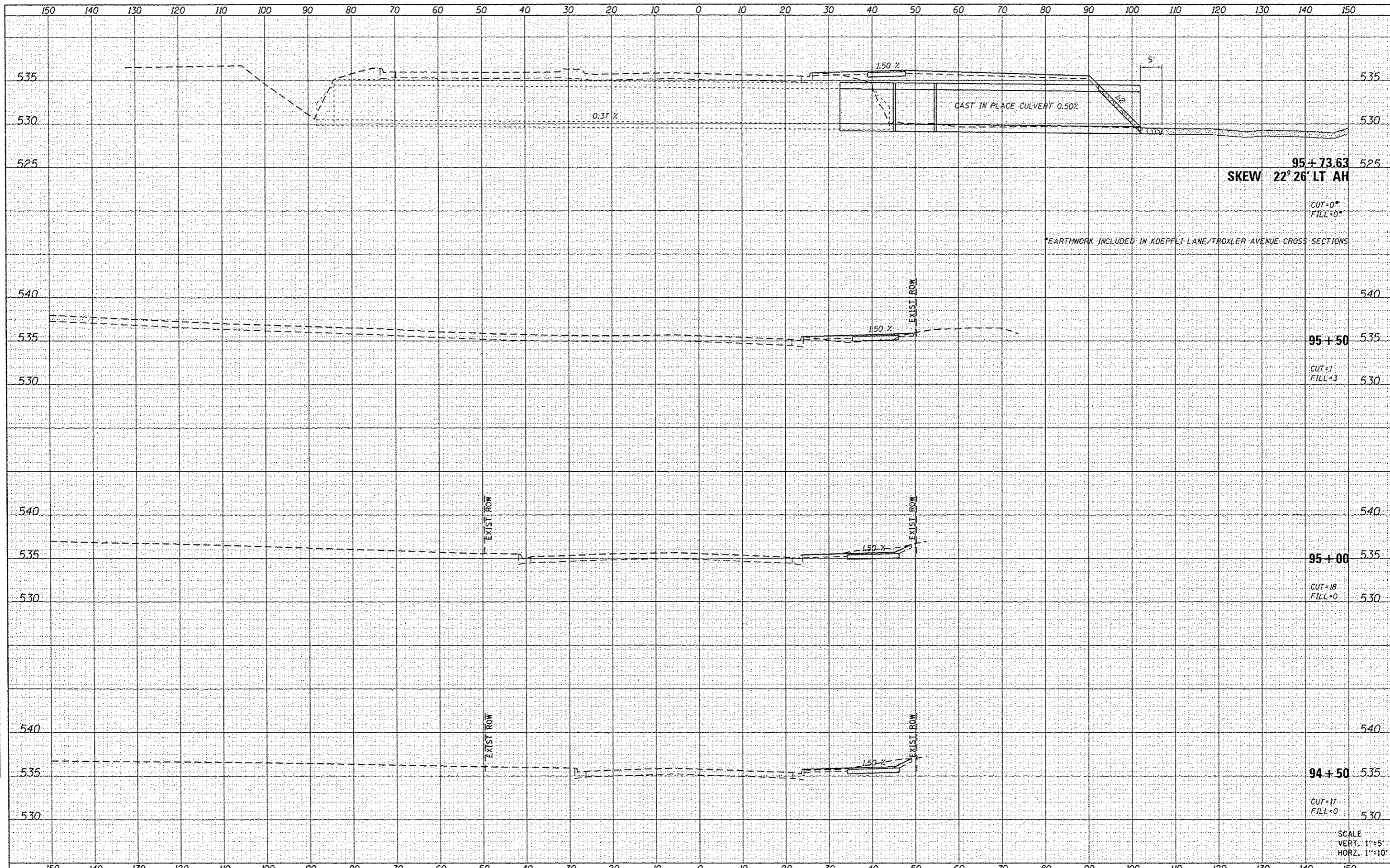
SCALE  
 VERT. 1"=5'  
 HORIZ. 1"=10'





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

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



95+73.63  
SKEW 22° 26' LT AH

CUT=0'  
FILL=0'

EARTHWORK INCLUDED IN KOEPFLI LANE/TROXLER AVENUE CROSS SECTIONS

95+50  
CUT=1'  
FILL=3'

95+00  
CUT=18'  
FILL=0'

94+50  
CUT=17'  
FILL=0'

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

FILE NAME = H:\P\10125\Microstation\CADD Sheets\0810125-sh1  
Default

USER NAME = brion.hoel  
PLOT SCALE = 20.0000' / in.  
PLOT DATE = 2/6/2015

DESIGNED -  
DRAWN -  
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DATE -

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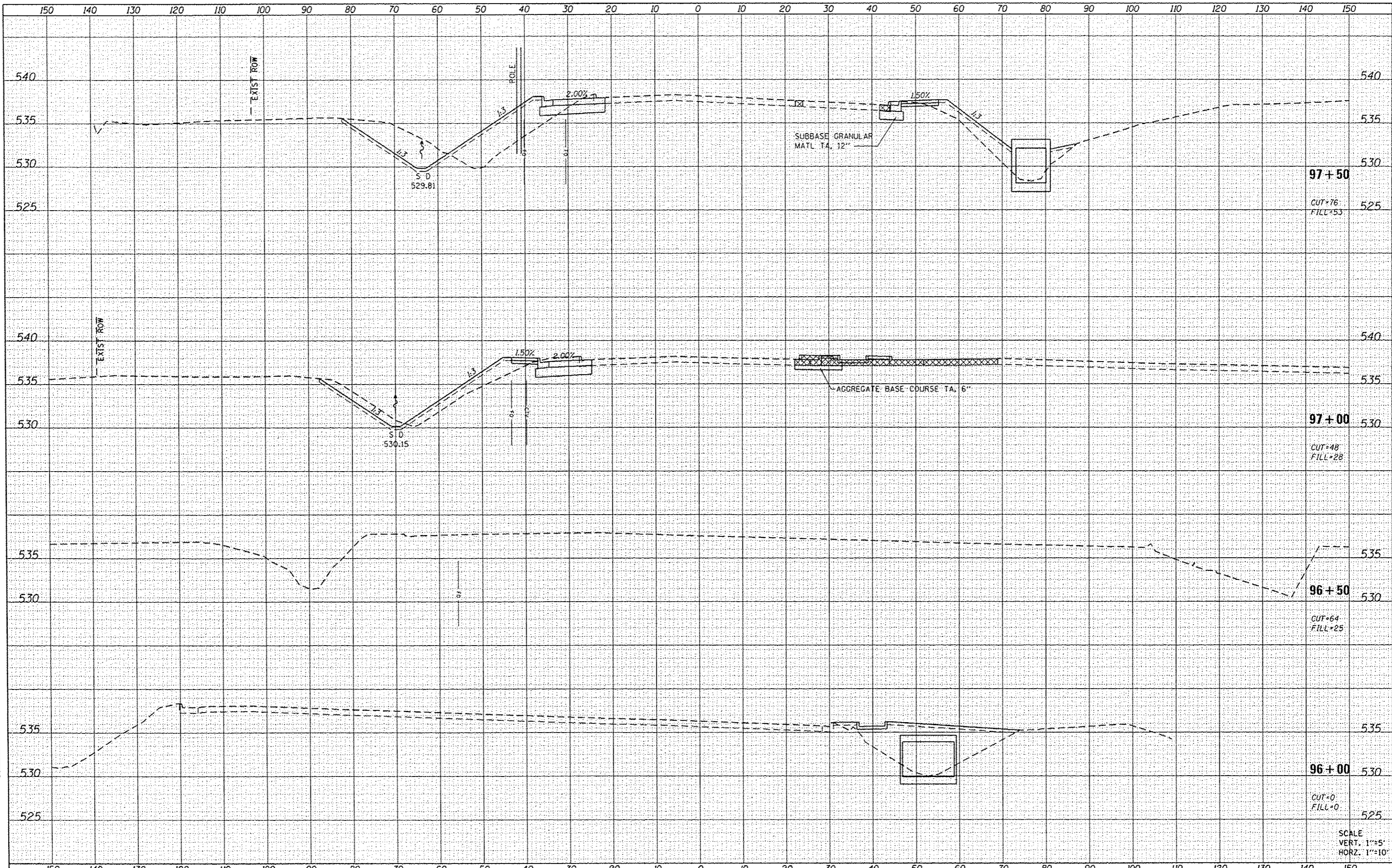
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
KOEPFLI LN /TROXLER AVE  
SCALE: SHEET 2 OF 5 SHEETS STA. 94+50 TO STA. 95+73.63

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	42
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	

DATE	
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TEMPLATE	
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AREAS CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	

DATE	
BY	
SUPERSED	
REVISION	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	



97+50  
CUT=76  
FILL=53

97+00  
CUT=48  
FILL=28

96+50  
CUT=64  
FILL=25

96+00  
CUT=0  
FILL=0

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

FILE NAME =	USER NAME = Brian.Hall	DESIGNED -	REVISED -
H:\NP\10125\Microstation\CADD Sheets\0810125-sh1	vac-Koop-Tron.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 20,0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/6/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

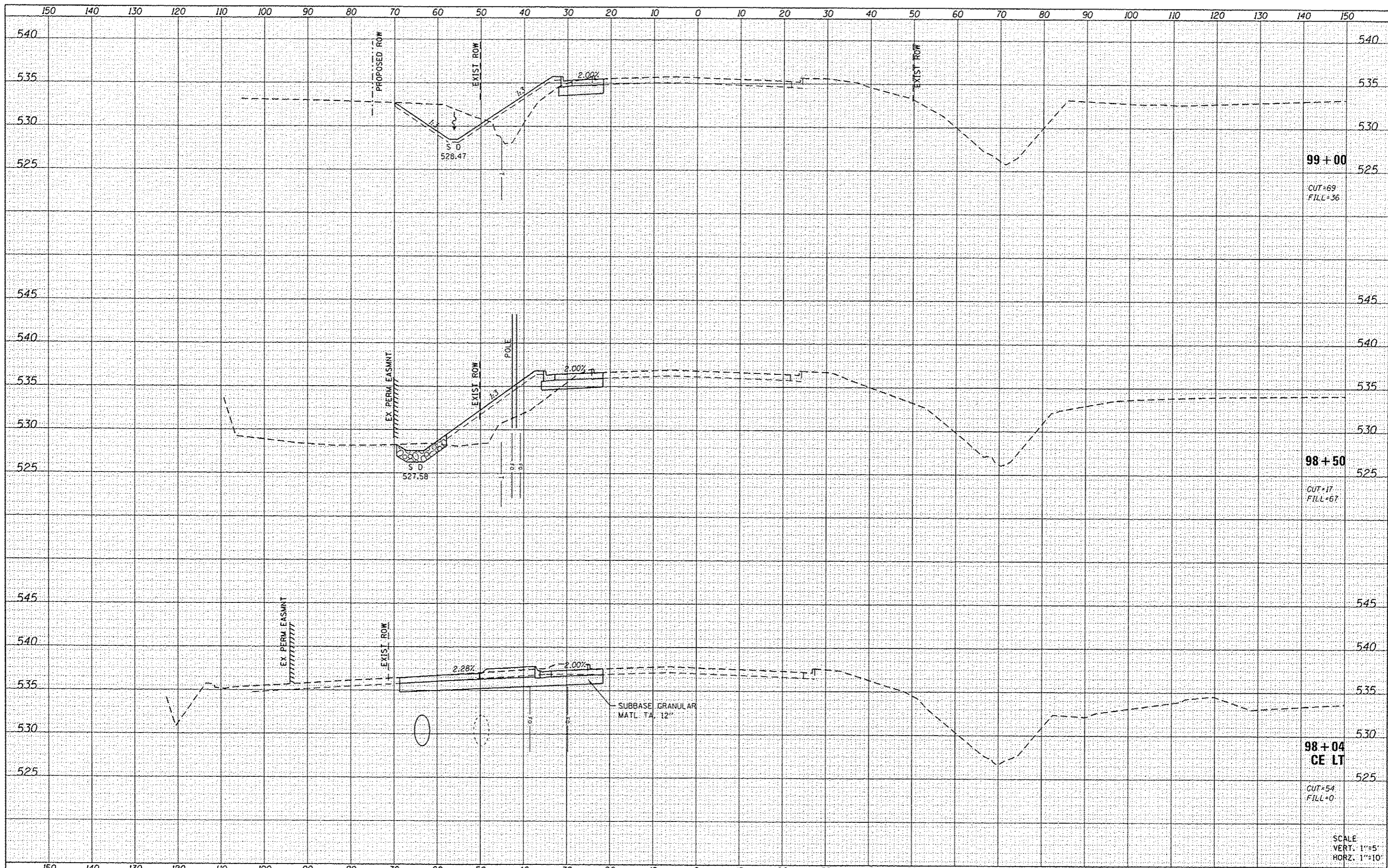
CROSS SECTIONS			
KOEPLI LN / TROXLER AVE			
SCALE:	SHEET 3	OF 5 SHEETS	STA. 96+00 TO STA. 97+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	12-00066-01-WR	MADISON	45	43
CONTRACT NO. 97583				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



99 + 00  
CUT=69  
FILL=36

98 + 50  
CUT=17  
FILL=67

98 + 04  
CE LT  
CUT=54  
FILL=0

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

FILE NAME : H:\P18125\Microstation\CADD Sheets\0818125-ht  
Default

USER NAME : brion.hall  
asc-komp-Tras.dgn  
PLOT SCALE : 20.0000' / in.  
PLOT DATE : 2/6/2015

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

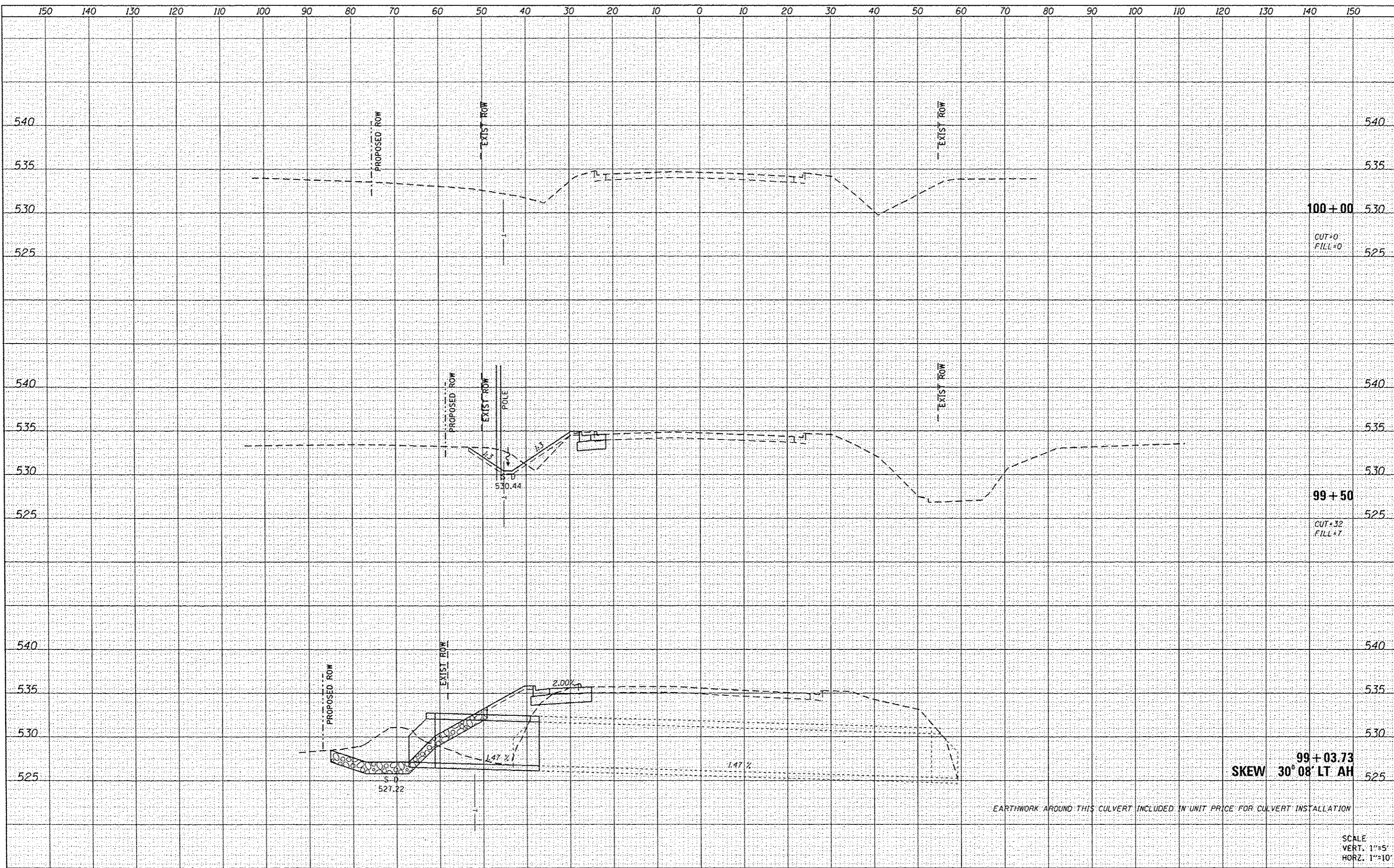
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
KOEPLI LN / TROXLER AVE  
SCALE: SHEET 4 OF 5 SHEETS STA. 98+03.76 TO STA. 99+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
783	12-0066-01-WR	MADISON	45	44
CONTRACT NO. 97583			ILLINOIS FED. AID PROJECT	

DATE	
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DATE	



FILE NAME \*  
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USER NAME * brion.heil	DESIGNED -	REVISED -
psc-Keop-Trax.dgn	DRAWN -	REVISED -
PLOT SCALE * 20.0000 1/ in.	CHECKED -	REVISED -
PLOT DATE * 2/6/2015	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 KOEPFLI LN / TROXLER AVE  
 SCALE: SHEET 5 OF 5 SHEETS STA. 99+03.73 TO STA. 100+00

F.A.P. RTE. 789	SECTION 12-00066-01-WR	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 45
			CONTRACT NO. 97583	
ILLINOIS FED. AID PROJECT				