

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	1
FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO. 63808		

06-13-14 LETTING ITEM 273

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR HIGHWAY  
FEDERAL AID PROJECT**

**FAU 178 (WILSON ROAD) (COUNTY HIGHWAY V58)  
MILLENNIUM TRAIL UNDERPASS**

**SECTION 14-F3000-02-BT**

**PROJECT NO. TE-00D1(956)**

**LAKE COUNTY FOREST PRESERVE DISTRICT  
LAKE COUNTY  
C-91-242-14**



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Approved 3/21/2014 DATE

*John E. Nelson*  
Lake County Forest Preserve District

Passed April 7, 2014 DATE

*Christopher H. ...*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review April 7 2014 DATE

*John ...*  
District 1 Engineer of Highways, Region 1 Engineer

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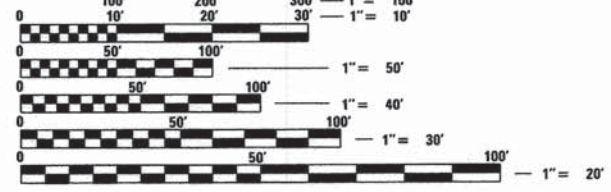
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- LC 2050 TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH
- LC 2051 PERIMETER EROSION BARRIER INSTALLATION
- LC 4103 HOT-MIX ASPHALT APRON FOR AGGREGATE FIELD ENTRANCE
- LC 4202 CONCRETE WASHOUT FACILITIES
- LC 6020 SUB-SURFACE DRAINS
- LC 7202 SHOULDER CLOSURE AND TAPER FOR CHANGEABLE MESSAGE SIGNS
- LC 7203 WORK ZONE SPEED LIMIT SIGNING DIAGRAM
- LC 7800 TYPICAL PAVEMENT MARKING FOR COUNTY HIGHWAYS

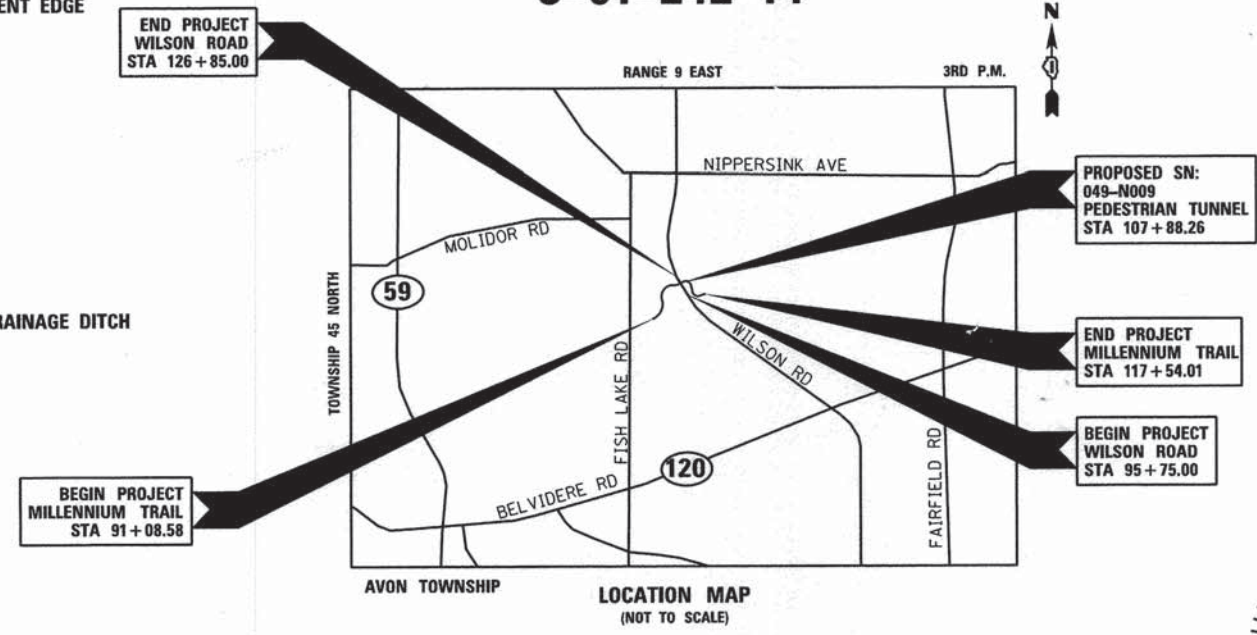


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

WITH THE FOLLOWING  
COUNTY: LAKE  
CITY-TOWNSHIP: ROUND LAKE - AVON  
SECTION AND 1/4 SECTION NO.: 35 SE 1/4  
48 HOURS BEFORE YOU DIG  
EXCLUDING SAT., SUN. AND HOLIDAYS

**CONTRACT NO. 63808**



AVON TOWNSHIP  
LOCATION MAP  
(NOT TO SCALE)

**PROJECT LENGTH**

WILSON ROAD GROSS AND NET LENGTH = 3,110.00 FEET (0.59 MILES)  
MILLENNIUM TRAIL GROSS AND NET LENGTH = 2,645.43 FEET (0.50 MILES)  
TOTAL GROSS AND NET LENGTH = 5,755.46 FEET (1.09 MILES)

**WILSON ROAD DESIGN INFORMATION**

DESIGN DESIGNATION - MINOR ARTERIAL  
DESIGN SPEED - 50 MPH POSTED SPEED - 45 MPH

**ADT**

WILSON ROAD 2011 ADT = 6,800 VPD

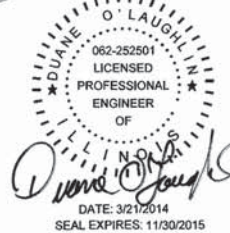
**Ciorba Group, Inc.**

DESIGN FIRM  
REGISTRATION NUMBER  
184-001016

CONSULTING ENGINEERS  
SUITE 402, 5507 NORTH CUMBERLAND AVE  
CHICAGO, ILLINOIS 60656 :: (773) 775-4009



DATE: 3/21/2014  
SEAL EXPIRES: 11/30/2014



DATE: 3/21/2014  
SEAL EXPIRES: 11/30/2015

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

CONSULTANT ENGINEER: DUANE O'LAUGHLIN, P.E. CIORBA GROUP, INC  
FEDERAL AID ENGINEER: FAWAD AQUEEL, P.E. (847) 705-4021 SCHAUMBURG, IL

## GENERAL NOTES

### GENERAL

1. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
2. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST I.D.O.T. STANDARD.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, ILLINOIS DEPARTMENT OF TRANSPORTATION (847) 705-4487, LAKE COUNTY DIVISION OF TRANSPORTATION (847) 377-7400, AND THE LAKE COUNTY FOREST PRESERVE (847) 968-3277, 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
4. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
5. PROPOSED LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS REPRESENT FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL SAW CUT PAVEMENT AND CURB & GUTTER TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM INVOLVED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE LAKE COUNTY FOREST PRESERVE DISTRICT, AN AUTHORIZED SURVEYOR OR ANY AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
8. ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
9. SHOULD THE CONTRACTOR DESIRE TO OBTAIN WATER FOR CONSTRUCTION PURPOSES FROM THE LOCAL AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ARRANGEMENTS. LAKE COUNTY FOREST PRESERVE DISTRICT MAY INSTRUCT THE CONTRACTOR WHERE A POTABLE WATER SUPPLY FROM A HYDRANT NEAR THE WORK SITE IS LOCATED. THE CONTRACTOR IS RESPONSIBLE FOR THE TRANSPORTATION OF THE WATER TO THE SITE WHERE NEEDED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. TEMPORARY TOILET - THE CONTRACTOR SHALL PROVIDE A TEMPORARY TOILET FACILITY FOR THE USE OF ALL CONTRACTORS' PERSONNEL EMPLOYED ON THE WORK, AND SHALL MAINTAIN SAME IN PROPER SANITARY CONDITION. AT COMPLETION, THE FACILITY SHALL BE REMOVED AND THE PREMISES LEFT CLEAN. THE ENGINEER SHALL APPROVE THE LOCATION OF THE TEMPORARY TOILET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. IN ADDITION TO THE REQUIREMENTS OF THE SPECIAL PROVISION FOR CONSTRUCTION LAYOUT STAKES (ILLINOIS DEPARTMENT OF TRANSPORTATION CHECK SHEET #10), THE CONTRACTOR SHALL REESTABLISH, MONUMENT, AND TIE ALL CONTROL POINTS USED TO COMPLETE THE WORK AS SPECIFIED INCLUDING ALL P.T.'S, P.C.'S, P.T.'S, AND P.O.T.'S. THE TYPE OF MONUMENTATION USED WILL BE PK NAILS, IRON PIPES, RR SPIKES OR AS APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "CONSTRUCTION LAYOUT".
12. WHEN REMOVING CURB AND GUTTER, PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
13. THE PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACES OF THE PORTLAND CEMENT CONCRETE PAVEMENT, CONCRETE SIDEWALK, AND CONCRETE CURB AND GUTTER, REGARDLESS OF DATE. PORTLAND CEMENT CONCRETE CURING SHALL BE LIMITED TO METHODS SPECIFIED IN ARTICLE 1020.13 (A) [1], [2] AND [3].
14. THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE BINDER OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.

15. CONCRETE WASHOUT FACILITY SHOULD BE PROVIDED IN THE FIELD BY THE CONTRACTOR. THE COST OF CONCRETE WASHOUT FACILITY SHALL BE INCLUDED IN THE COST OF THE CONCRETE WORK ITEMS INCLUDED IN THE CONTRACT. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ARTICLE 201.01(G) OF THE STANDARD SPECIFICATIONS. REMOVAL OF ALL OBSTRUCTIONS IN THE RIGHT-OF-WAY, THAT ARE NOT INCLUDED IN A SPECIFIC REMOVAL ITEM, SHALL BE CONSIDERED CLEARING AND INCLUDED IN THE COST OF THE CONTRACT. THIS SHALL INCLUDE, BUT NOT LIMITED TO, FENCES, WALLS, FOUNDATIONS, BUILDINGS, ACCUMULATIONS OF RUBBISH OF WHATEVER NATURE, OLD TYPE III BARRICADES, OLD WATER HEATERS, OLD CMP PIPE, RUBBER TIRES, CONCRETE BLOCKS, DEAD MEN, METAL PARTS, ABANDONED WOODEN POWER POLES, GATES, AND ALL VEGETATION, TREES, SHRUBS, ETC. LESS THAN 6" IN DIAMETER.
17. ALL EARTHWORK EXCAVATION IS TO BE REGRADED/PLACED ON SITE. THERE IS NO HAUL-OFF ANTICIPATED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION", "TOPSOIL EXCAVATION AND PLACEMENT" AND "STRUCTURE EXCAVATION". SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE SOILS, THE REMOVAL SHALL BE PAID FOR AS "EARTH EXCAVATION".

### STORM SEWERS, STRUCTURES AND UTILITIES

18. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND APPLICABLE ARTICLES INCLUDED IN THE "STANDARD SPECIFICATIONS" INCLUDING, BUT NOT LIMITED TO, ARTICLES 105.07 AND 107.31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING STORM & SANITARY SEWERS AND WATER MAINS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT OR RELOCATION OF THEIR FACILITIES, IF NECESSARY.
20. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR EACH STRUCTURE TO SET THE FRAME AND GRATE IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE.
21. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. THE ADJUSTMENT OF FRAMES ON ALL NEW STRUCTURES TO THE FINAL ELEVATIONS SHALL BE INCLUDED IN THE COST OF THE NEW STRUCTURES. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
22. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING AND PROPOSED SEWER, DRAINAGE STRUCTURES, AND FIELD TILES SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING CONNECTED. ALL JOINTS IN CONCRETE SEWER PIPE SHALL BE SEALED WITH RUBBER GASKETS, PREFORMED JOINT SEALANTS, OR EXTERNAL SEALING BANDS. NO MASTIC JOINT SEALER WILL BE ALLOWED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
23. THE CONTRACTOR SHALL MAINTAIN FLOWS THROUGH EXISTING SEWER SYSTEMS AT ALL TIMES. THE EXISTING STRUCTURES SHALL BE INSPECTED BEFORE CONSTRUCTION STARTS. AS DIRECTED BY THE ENGINEER, ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

24. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR STRUCTURES. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
25. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
26. ANY PAVEMENT REMOVED AS PART OF UTILITY INSTALLATIONS SHALL BE REPLACED WITH PERMANENT PAVEMENT. TEMPORARY STONE SURFACE WILL NOT BE PERMITTED TO REMAIN OVERNIGHT WITHIN THE LIMITS OF LIVE TRAFFIC LANES. TEMPORARY HOT-MIX ASPHALT PATCHING AT THE CONTRACTOR'S EXPENSE MAY BE USED IN LIEU OF IMMEDIATE PAVEMENT REPLACEMENT. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
27. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLES, CATCH BASIN, INLET, VALVE VAULT, OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM". ALL LIDS TO BE USED ON SANITARY SEWER STRUCTURES SHALL BEAR THE WORD "SANITARY". ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER". ALL OPEN GRATES SHALL INCLUDE THE WORDING "DUMP NO WASTE. DRAINS TO WATERWAYS". THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE STRUCTURE BEING CONSTRUCTED, ADJUSTED OR RECONSTRUCTED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
28. THE CONTRACTOR SHALL BE AWARE THAT AT TIMES THE ENGINEER MAY REQUIRE A CHANGE IN STORM SEWER ELEVATION DUE TO A UTILITY LINE OR OTHER OBSTRUCTION. IF SUCH A GRADE CHANGE DOES NOT ALTER THE PIPE CLASSIFICATION, THE ADDITIONAL EXCAVATION OR SHEETING REQUIRED SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE STORM SEWER. HOWEVER, IF THE REVISED GRADE RESULTS IN A CHANGE IN PIPE CLASSIFICATION, PAYMENT WILL BE FOR THE REVISED TYPE OF STORM SEWER.
29. FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 WILL NOT BE ALLOWED.

### TREE REMOVAL, CLEARING AND HEDGE REMOVAL

30. ALL TREES ARE DESIGNATED TO BE SAVED UNLESS OTHERWISE NOTED ON THE PLANS, AND SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201 OF THE STANDARD SPECIFICATIONS.

NOTE:  
ALL WORK DESCRIBED WITHIN A BOX IS INCLUDED IN THE COST OF ANOTHER ITEM. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

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**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = rnumbev	DESIGNED - EPS	REVISED -
PLOT SCALE = 1:8000 1" = 32'	DRAWN - EPS	REVISED -
PLOT DATE = 3/21/2014	CHECKED - DUJ	REVISED -
	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	2
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**SIGNING, STRIPING AND LANDSCAPING**

- 31. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET OR STORE ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. THIS WORK WILL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT'S TRAFFIC CONTROL ITEMS.
- 32. ANY SIGNS WHICH ARE DAMAGED BEYOND REPAIR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
- 33. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.
- 34. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 35. TEMPORARY FENCE SHALL BE PLACED AROUND ALL TREES THAT ARE TO BE PROTECTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR MORE DETAIL.
- 36. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR PERIODS OF SHORT DURATION.
- 37. THE FOLLOWING NOMINAL QUANTITIES WERE PROVIDED FOR WORK NOT SHOWN ON THE PLANS. THESE QUANTITIES SHALL ONLY BE UTILIZED AS DIRECTED BY THE ENGINEER.

MOWING - 15 ACRES  
 MULCH METHOD 3A - 12.5 ACRE  
 SUPPLEMENTAL WATERING - 426 UNIT  
 PIPE DRAINS 4" - 200 FOOT  
 PIPE DRAINS 6" - 200 FOOT  
 SEEDING CLASS 3 SPECIAL - 7.4 ACRE  
 FLOCCULATION LOGS - 255 EACH  
 FLOCCULATION POWDER - 198 POUND  
 DUST CONTROL WATERING - 213 UNIT

**POINTS OF CONTACT**

LAKE COUNTY FOREST PRESERVE DISTRICT  
 MR. JEFF SLOOT  
 PROJECT ARCHITECT  
 1899 WEST WINCHESTER ROAD  
 LIBERTYVILLE, IL 60048  
 PH: (847) 968-3277

NICOR GAS  
 MS. CONSTANCE LANE  
 ADMINISTRATOR, ENGINEERING  
 1844 FERRY ROAD  
 NAPERVILLE RD., IL 60563  
 PH: (630) 388-3830

LAKE COUNTY DIVISION OF TRANSPORTATION  
 MS. BETSY DUKERT, PE  
 PRINCIPAL CIVIL ENGINEER  
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 LIBERTYVILLE, IL 60048  
 PH: (847) 377-7400

COMCAST CABLE  
 MR. TED WYMAN  
 RIGHT -OF -WAY ENGINEER  
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 ELMHURST, IL 60126  
 PH: (630) 600-6349

LAKE COUNTY PASSAGE  
 PH: (847) 984-5888

AT&T CORP.  
 MS. ANTOINETTE GLOVER-JONES  
 LEGAL MANDATE ENGINEERING  
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 OAK BROOK, IL 60523  
 PH: (630) 573-5703  
 FAX: (630) 573-5567

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 MANAGER, PUBLIC RELOCATION GROUP -  
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 1500 FRANKLIN BLVD.  
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 PH: (847) 816-5239  
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AT&T LOCAL NETWORK SERVICES  
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 LISLE, IL 60532  
 PH: (630) 810-6274  
 FAX: (630) 968-2927

**GENERAL NOTES**

**LAKE COUNTY SMC**

**SEDIMENTATION AND EROSION CONTROL NOTES**

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- C. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- D. AREAS OR ENBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- E. EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- F. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- G. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- H. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- I. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- J. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- L. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

NOTE:  
 ALL WORK DESCRIBED WITHIN A BOX IS INCLUDED IN THE COST OF ANOTHER ITEM. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>GENERAL NOTES</b>			
<b>WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	3
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			<b>CONTRACT NO. 63808</b>	



CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0021 LIGHTING	0028 PEDESTRIAN FACILITIES	0040 UNDERPASS
28000500	INLET AND PIPE PROTECTION	EACH	14		14	
28100101	STONE RIPRAP, CLASS A1	SQ YD	8		8	
28100203	STONE RIPRAP, CLASS A2	TON	415			415
28200200	FILTER FABRIC	SQ YD	8		8	
△ 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	567		567	
△ 35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	75			75
△ 35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	4,233		4,233	
△ 40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50		50	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	99		99	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,029		2,029	
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	534		534	
△ 42001300	PROTECTIVE COAT	SQ YD	8		8	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	276		276	
△ 42400800	DETECTABLE WARNINGS	SQ FT	48		48	
44000100	PAVEMENT REMOVAL	SQ YD	4,953		4,953	
△ 44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	12,733		12,733	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	158		158	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	44		44	
44200150	PAVEMENT PATCHING, TYPE IV, 12 INCH	SQ YD	300		300	
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	2,415			2,415
△ 48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	3,796		3,796	
50105220	PIPE CULVERT REMOVAL	FOOT	30		30	
50300225	CONCRETE STRUCTURES	CU YD	563.0			563.0
50300254	RUBBED FINISH	SQ FT	4,361			4,361

• SPECIALTY ITEMS  
△ SPECIAL PROVISIONS

FILE NAME: I:\PROJECTS\140230007\140230007.dwg; USER: M.Jason; DESIGN: M.Jason; SHEETS: 140230007.dwg

 <b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	USER NAME = rtumbey DESIGNED - EPS DRAWN - EPS PLOT SCALE = 1:8000' / 1"=400' PLOT DATE = 3/24/2014	DESIGNED - EPS DRAWN - EPS CHECKED - DJO DATE - 3/24/2014	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b> <b>WILSON ROAD UNDERPASS</b>			F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 5
	SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 63808 FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0021 LIGHTING	0028 PEDESTRIAN FACILITIES	0040 UNDERPASS
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	74,460			74,460
50800515	BAR SPLICERS	EACH	123			123
51500100	NAME PLATES	EACH	1			1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4		4	
54215763	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	6		6	
54260311	TRAVERSABLE PIPE GRATE	FOOT	19		19	
54261215	CONCRETE END SECTION, STANDARD 542001, 15", 1:2	EACH	2		2	
54261624	CONCRETE END SECTION, STANDARD 542001, 24", 1:6	EACH	1		1	
Δ 542D5473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	111		111	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	54		54	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	746		746	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	83		83	
550A4900	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	137		137	
55200900	STORM SEWERS JACKED IN PLACE, 24"	FOOT	298		298	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	413			413
Δ 60100905	PIPE DRAINS 4"	FOOT	200		200	
Δ 60100915	PIPE DRAINS 6"	FOOT	200		200	
Δ 60100945	PIPE DRAINS 12"	FOOT	802		802	
60107600	PIPE UNDERDRAINS 4"	FOOT	1,008		1,008	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3		3	
60255500	MANHOLES TO BE ADJUSTED	EACH	1		1	
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	44		44	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10		10	

- SPECIALTY ITEMS
- Δ SPECIAL PROVISIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
WILSON ROAD UNDERPASS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	6
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63808

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0021 LIGHTING	0028 PEDESTRIAN FACILITIES	0040 UNDERPASS
67100100	MOBILIZATION	L SUM	1		1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16		16	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,100		3,100	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18,908		18,908	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	26		26	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7,349		7,349	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350		350	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350		350	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2		2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2		2	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110		110	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11,010		11,010	
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	6,727		6,727	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,013		1,013	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	465		465	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	108		108	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	56		56	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4,950		4,950	
△ 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	136		136	
△ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		
△ 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1		
△ 81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	60	60		
* 81200100	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	220	220		
* 81300980	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 8" X 6"	EACH	2	2		

\* SPECIALTY ITEMS  
△ SPECIAL PROVISIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	7
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0021 LIGHTING	0028 PEDESTRIAN FACILITIES	0040 UNDERPASS
• 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	980	980		
• 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	370	370		
• A2007114	TREE, QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20		20	
• A2016614	TREE, QUERCUS ELLIPSOIDALIS (HILL'S OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20		20	
• A2C36G15	TREE, QUERCUS MACROCARPA (BURR OAK), CONTAINER GROWN, 15-GALLON (ROOT PRODUCTION METHOD),	EACH	48		48	
△ X0323260	SEDIMENT BASIN	EACH	2		2	
△ X0426200	DEWATERING	L SUM	1		1	
△ • X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	2		2	
△ • X2501100	SEEDING, CLASS 3 (SPECIAL)	ACRE	16		16	
△ X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	8		8	
△ X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	14,994		14,994	
△ X5020200	STRUCTURE EXCAVATION (SPECIAL)	CU YD	4,967			4,967
△ X6022240	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME, CLOSED LID	EACH	4		4	
△ X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1	
△ • X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1	1		
△ XX003668	PRECONSTRUCTION VIDEO TAPING	L SUM	1		1	
△ * XX005713	ORNAMENTAL RAILING	FOOT	127			127
△ XX006658	FLOCCULATION LOGS	EACH	255		255	
△ XX006659	FLOCCULATION POWDER	POUND	198		198	
△ * XX007023	STAINING CONCRETE STRUCTURES	SQ YD	164			164
△ XX007518	OBSERVATION STRUCTURE (EXISTING DRAIN TILE)	EACH	4		4	
△ • XX007797	LUMINAIRE (SPECIAL)	EACH	12	12		
△ XX008003	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	1,473			1,473
△ • XX008866	UNDERGROUND CONDUIT, PVC COATED GALVANIZED STEEL, 2 1/2" DIA.	FOOT	75	75		

• SPECIALTY ITEMS

△ SPECIAL PROVISIONS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	8
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	



	CODED PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	0021 LIGHTING	0028 PEDESTRIAN FACILITIES	0040 UNDERPASS
Δ	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	289		289	
Δ	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1	
Δ	Z0019600	DUST CONTROL WATERING	UNIT	213		213	
Δ	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	52		52	
Δ	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	585			585
Δ	Z0062456	TEMPORARY PAVEMENT	SO YD	4,486		4,486	
Δ	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1,567			1,567
+	Z0076600	TRAINEES	HOUR	1,000		1,000	
+	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000		1,000	
Δ *	Z0077900	WOOD POST AND RAIL FENCE	FOOT	200		200	

- SPECIALTY ITEMS
- Δ SPECIAL PROVISIONS
- + CONSTRUCTION CODE 0042

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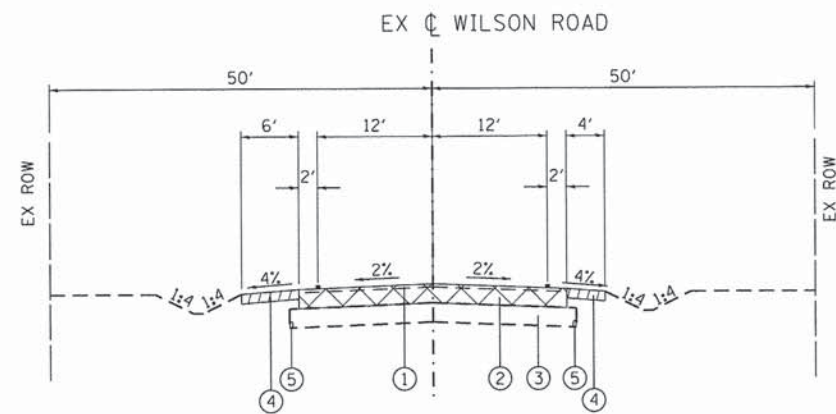
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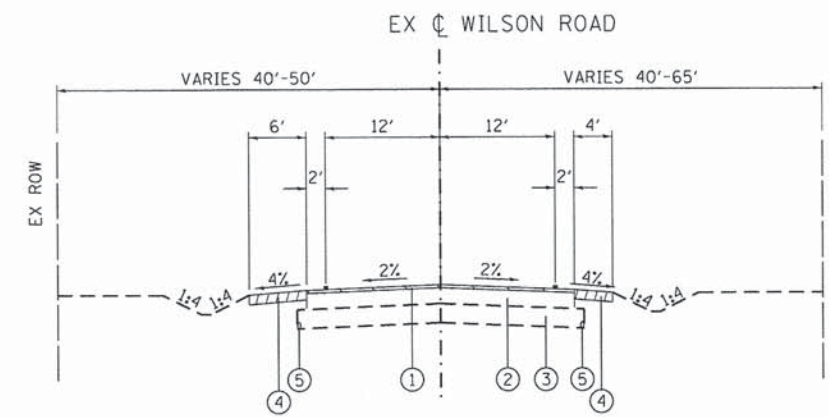
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES WILSON ROAD UNDERPASS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	9
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				CONTRACT NO. 63808



EXISTING TYPICAL SECTION  
STA 112+90.00 TO STA 114+40.00 - WILSON ROAD



EXISTING TYPICAL SECTION  
STA 95+75.00 TO STA 112+90.00 - WILSON ROAD  
STA 114+40.00 TO STA 126+85.00 - WILSON ROAD

**EXISTING CONDITIONS**

- ① EXISTING 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- ② EXISTING 10" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- ③ EXISTING AGGREGATE SUBGRADE, 12"
- ④ EXISTING 6" AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS 4"

- ☒ PAVEMENT REMOVAL
- ▨ EXISTING AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)
- ▧ HOT-MIX ASPHALT SURFACE REMOVAL, 2"

**PROPOSED IMPROVEMENTS**

- Ⓐ HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (2" SURFACE, 10" BINDER)
- Ⓑ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- Ⓒ AGGREGATE SHOULDERS, 6", TYPE B
- Ⓓ PIPE UNDERDRAINS, 4"
- Ⓔ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- Ⓕ AGGREGATE BASE COURSE, TYPE B, 6"
- Ⓖ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- Ⓗ TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM)
- Ⓘ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- Ⓝ EARTH EXCAVATION

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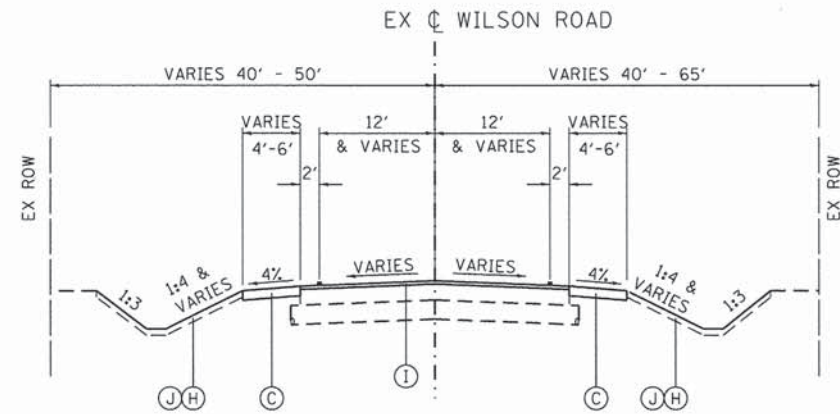
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

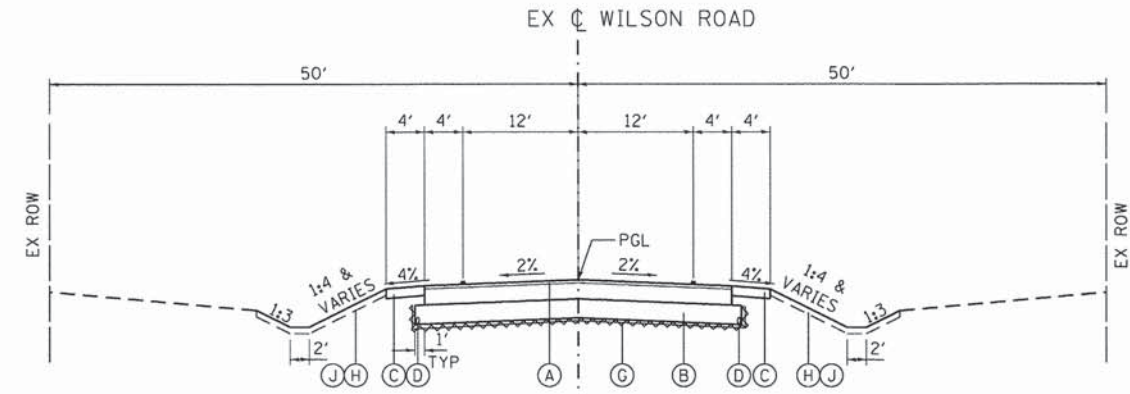
**TYPICAL SECTIONS  
WILSON ROAD UNDERPASS**

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

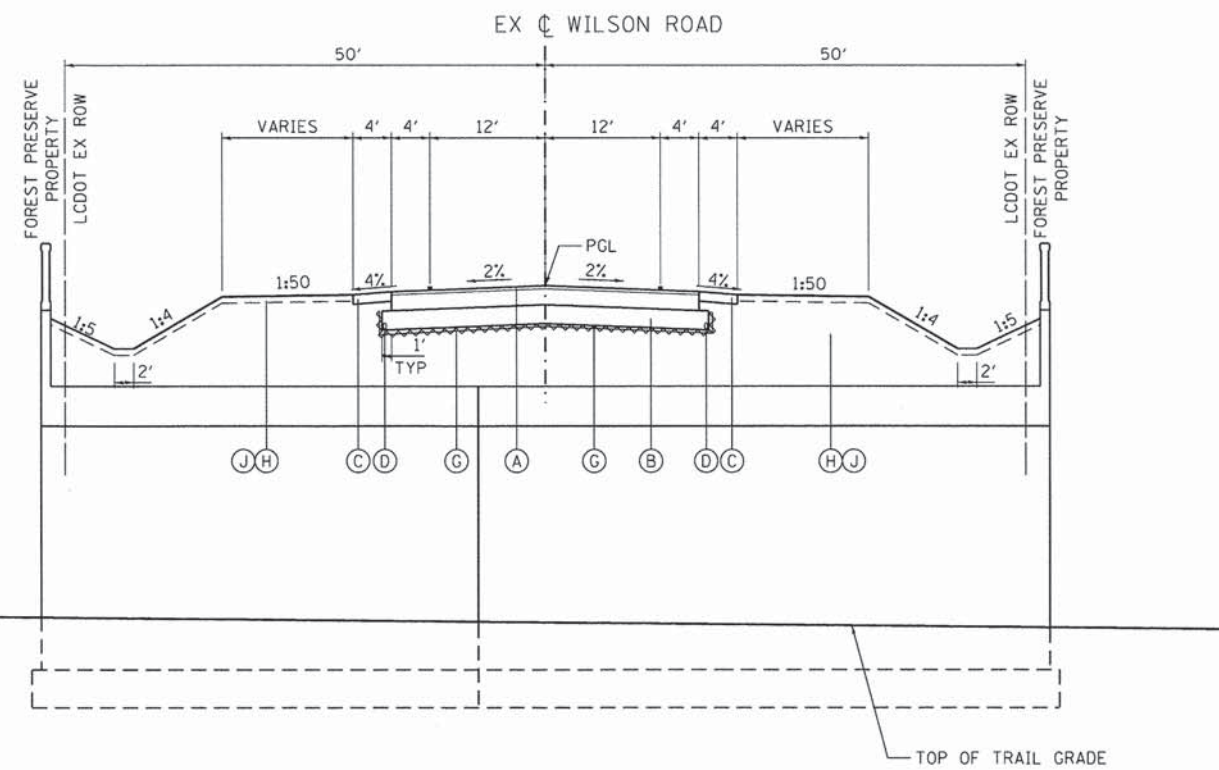
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	10
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



PROPOSED TYPICAL SECTION  
 STA 95+75.00 TO STA 112+90.00 - WILSON ROAD  
 STA 114+40.00 TO STA 126+85.00 - WILSON ROAD



PROPOSED TYPICAL SECTION  
 STA 112+90.00 TO STA 113+57.75 - WILSON ROAD  
 STA 113+78.25 TO STA 114+40.00 - WILSON ROAD



PROPOSED TYPICAL SECTION  
 STA 113+57.75 TO STA 113+78.25 - WILSON ROAD (AT UNDERPASS)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
ROADWAY RECONSTRUCTION	HOT-MIX ASPHALT PAVEMENT, (FULL DEPTH), 12" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 10" (IN 3 LIFTS)	4% @ 50 Gyr. 4% @ 50 Gyr.	OC/AA
BIKE PATH MILLENNIUM TRAIL	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"	4% @ 50 Gyr.	OC/AA
TEMPORARY PAVEMENT, 8"	TEMP PAVEMENT (HMA BINDER COURSE, IL-19mm), N50, 8" (IN 3 LIFTS)	4% @ 50 Gyr.	OC/AA
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	4% @ 50 Gyr.	OC/AA

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.  
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.  
 FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS  
 FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.  
 PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS.  
 QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

EXISTING CONDITIONS

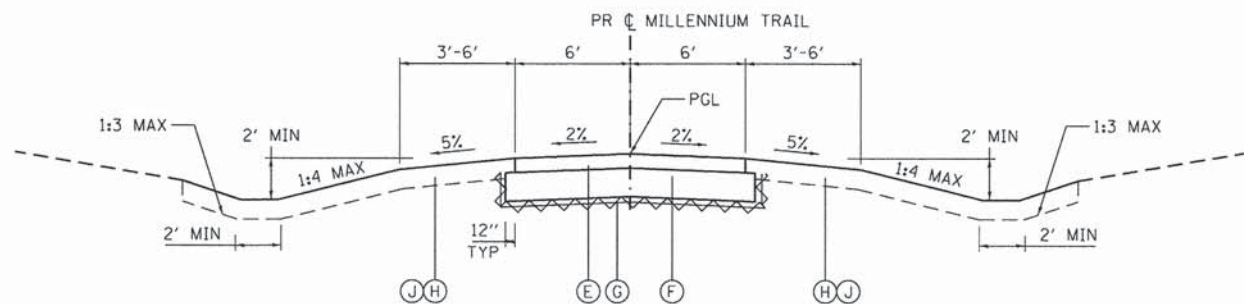
- ① EXISTING 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- ② EXISTING 10" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- ③ EXISTING AGGREGATE SUBGRADE, 12"
- ④ EXISTING 6" AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS 4"

PROPOSED IMPROVEMENTS

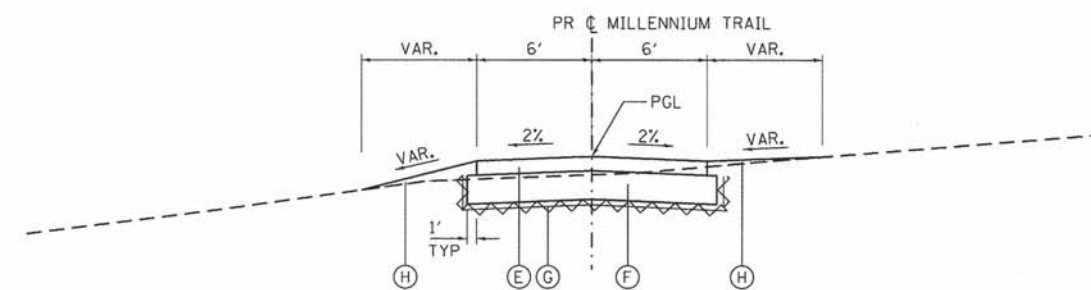
- Ⓐ HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (2" SURFACE, 10" BINDER)
- Ⓑ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- Ⓒ AGGREGATE SHOULDERS, 6", TYPE B
- Ⓓ PIPE UNDERDRAINS, 4"
- Ⓔ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"
- Ⓕ AGGREGATE BASE COURSE, TYPE B, 6"
- Ⓖ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- Ⓗ TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM)
- Ⓘ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- Ⓣ EARTH EXCAVATION

- ☒ PAVEMENT REMOVAL
- ▨ EXISTING AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)
- ▧ HOT-MIX ASPHALT SURFACE REMOVAL, 2"

FILE NAME = N:\PROJ\0820087\01\0 - Wilson\Design\Typical Sections\0820087.dwg



PROPOSED TYPICAL SECTION - STANDARD TRAIL  
 STA 91+08.58 TO STA 111+50.00 - MILLENNIUM TRAIL



PROPOSED TYPICAL SECTION - SENSITIVE WOODED TRAIL  
 STA 111+50.00 TO STA 117+54.01 - MILLENNIUM TRAIL

**NOTE:**

TRAIL AND DRAINAGE CONSTRUCTION THROUGH HIGHER QUALITY WOODED AREAS IS GREATLY EFFECTED BY THE PRESENCE OF LARGER NATIVE TREES. THE DETAILS SHOWN MAY REQUIRE MODIFICATION IN AN EFFORT TO PRESERVE DESIRABLE TREES. THIS MAY INCLUDE RELOCATION OF DITCHING, DELETING DITCHES ADJACENT TO TREES, CREATING SHORTER DITCHES PERPENDICULAR TO THE TRAIL AND ADJUSTING THE BUILT DIMENSIONS. THE CONTRACTOR SHALL REVIEW DRAINAGE ISSUES WITH THE OWNER ON-SITE BEFORE COMMENCEMENT OF WORK IN SENSITIVE WOODED AREAS. ADDITIONAL DEPTHS OF AGGREGATE BASE COURSE, CA-6, 5" MAY BE REQUIRED TO ACHIEVE DESIRED CROSS SLOPES. IF REQUIRED ANY INCREASED AGGREGATE SHALL BE PAID FOR AS AGGREGATE BASE COURSE, TYPE B IN THE UNIT OF CU YD.

**EXISTING CONDITIONS**

- ① EXISTING 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- ② EXISTING 10" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- ③ EXISTING AGGREGATE SUBGRADE, 12"
- ④ EXISTING 6" AGGREGATE SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS 4"

☒ PAVEMENT REMOVAL

▨ EXISTING AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)

▧ HOT-MIX ASPHALT SURFACE REMOVAL, 2"

**PROPOSED IMPROVEMENTS**

- Ⓐ HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (2" SURFACE, 10" BINDER)
- Ⓑ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- Ⓒ AGGREGATE SHOULDERS, 6", TYPE B
- Ⓓ PIPE UNDERDRAINS, 4"
- Ⓔ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"
- Ⓕ AGGREGATE BASE COURSE, TYPE B, 6"
- Ⓖ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- Ⓗ TOPSOIL EXCAVATION AND PLACEMENT (4" MINIMUM)
- Ⓢ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- Ⓣ EARTH EXCAVATION

FILE NAME = I:\PROJECTS\14820007-01\Wilson\Design\Typical\Sections\14820007-01-Typical03.dgn

USER NAME = nsumbev	DESIGNED - EPS	REVISED -
	DRAWN - EPS	REVISED -
PLOT SCALE = 10,0000' / in.	CHECKED - DJO	REVISED -
PLOT DATE = 3/21/2014	DATE - 3/21/2014	REVISED -

TYPICAL SECTIONS WILSON ROAD UNDERPASS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		178	14-F3000-02-BT	LAKE	165	12
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 63808	

FED. ROAD DIST. NO. .	ILLINOIS FED. AID PROJECT
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SCHEDULE OF EARTH QUANTITIES - WILSON ROAD (FINAL)									
STATION	AREA (SQ FT)				VOLUME (CU YD)				
	TOPSOIL CUT	TOPSOIL FILL	EARTH EX	EMBANKMENT	TOPSOIL CUT	TOPSOIL FILL	EARTH EX	EARTH EX (15% SHRINKAGE)	EMBANKMENT
95+50.00	0.0	0.0	0.0	0.0					
					1.2	0.2	0.3	0.3	0.0
95+75.00	2.5	0.5	0.6	0.1					
					2.2	0.3	0.6	0.5	0.1
96+00.00	2.3	0.2	0.6	0.1					
					4.5	0.8	0.8	0.7	0.6
96+50.00	2.6	0.7	0.3	0.6					
					4.5	0.9	0.8	0.7	0.6
97+00.00	2.3	0.3	0.6	0.1					
					4.0	0.3	1.5	1.3	0.1
97+50.00	2.0	0.0	1.0	0.0					
					3.9	0.3	1.5	1.3	0.0
98+00.00	2.2	0.3	0.6	0.0					
					4.1	0.5	1.1	0.9	0.0
98+50.00	2.2	0.2	0.6	0.0					
					4.0	0.3	1.3	1.1	0.0
99+00.00	2.1	0.1	0.8	0.0					
					4.1	0.4	1.5	1.3	0.0
99+50.00	2.3	0.3	0.8	0.0					
					4.1	0.4	1.5	1.3	0.0
100+00.00	2.1	0.1	0.8	0.0					
					3.8	0.1	1.8	1.5	0.0
100+50.00	2.0	0.0	1.1	0.0					
					3.9	0.2	1.8	1.5	0.0
101+00.00	2.2	0.2	0.8	0.0					
					7.4	3.7	4.3	3.7	0.0
101+50.00	5.8	3.8	3.8	0.0					
					5.4	3.5	3.5	3.0	0.0
102+00.00	0.0	0.0	0.0	0.0					
					0.0	0.0	0.0	0.0	0.0
102+50.00	0.0	0.0	0.0	0.0					
					0.0	0.0	0.0	0.0	0.0
103+00.00	0.0	0.0	0.0	0.0					
					2.3	0.3	0.7	0.6	0.1
103+50.00	2.5	0.3	0.8	0.1					
					4.7	0.8	1.0	0.9	0.4
104+00.00	2.6	0.6	0.3	0.3					
					7.4	3.7	0.4	0.3	5.9
104+50.00	5.4	3.4	0.1	6.1					
					7.6	3.9	0.3	0.3	6.5
105+00.00	2.8	0.8	0.2	0.9					
					4.9	1.2	0.7	0.6	1.1
105+50.00	2.5	0.5	0.6	0.3					
					4.3	0.6	1.4	1.2	0.3
106+00.00	2.1	0.1	0.9	0.0					
					4.1	0.4	1.3	1.1	0.1
106+50.00	2.3	0.3	0.5	0.1					
					4.5	0.7	0.8	0.7	0.3
107+00.00	2.6	0.5	0.4	0.2					
					4.9	1.1	0.6	0.5	0.6
107+50.00	2.7	0.7	0.3	0.4					
					6.2	2.5	0.6	0.5	2.0
108+00.00	4.0	2.0	0.3	1.8					
					5.7	3.3	1.3	1.1	3.4
108+50.00	2.2	1.6	1.1	1.9					
					6.1	5.1	2.8	2.4	3.7
109+00.00	4.4	3.9	1.9	2.1					
					4.3	4.1	2.9	2.5	2.4
109+50.00	0.2	0.5	1.2	0.5					
					0.5	1.7	2.1	1.8	1.1
110+00.00	0.3	1.3	1.1	0.7					
					0.6	2.9	2.0	1.7	1.9

SCHEDULE OF EARTH QUANTITIES - WILSON ROAD (FINAL)									
STATION	AREA (SQ FT)				VOLUME (CU YD)				
	TOPSOIL CUT	TOPSOIL FILL	EARTH EX	EMBANKMENT	TOPSOIL CUT	TOPSOIL FILL	EARTH EX	EARTH EX (15% SHRINKAGE)	EMBANKMENT
110+50.00	0.3	1.8	1.1	1.4					
					0.6	4.1	2.0	1.7	3.0
111+00.00	0.3	2.6	1.1	1.8					
					0.7	5.6	2.2	1.9	3.5
111+50.00	0.5	3.4	1.3	2.0					
					4.0	10.0	2.7	2.3	5.9
112+00.00	3.8	7.4	1.6	4.4					
					7.0	14.0	2.8	2.4	9.4
112+50.00	3.8	7.7	1.4	5.7					
					3.2	9.0	2.1	1.8	6.1
112+90.00	0.5	4.5	1.4	2.6					
					0.0	0.0	0.0	0.0	0.0
112+90.00	0.3	4.3	1.3	2.6					
					0.1	1.6	0.6	0.5	0.8
113+00.00	0.5	4.5	1.9	1.5					
					0.9	8.3	2.7	2.3	4.4
113+50.00	0.5	4.5	1.0	3.3					
					0.4	3.1	0.7	0.6	2.2
113+68.00	0.7	4.7	1.0	3.3					
					0.8	5.6	1.2	1.0	3.9
114+00.00	0.6	4.7	1.0	3.3					
					0.5	6.6	1.5	1.3	5.3
114+40.00	0.1	4.2	1.0	3.9					
					0.0	0.0	0.0	0.0	0.0
114+40.00	0.1	4.2	1.0	3.9					
					0.1	1.5	0.4	0.3	1.4
114+50.00	0.2	4.1	1.0	3.8					
					0.3	7.2	1.9	1.6	7.0
115+00.00	0.1	3.7	1.0	3.8					
					0.2	6.5	1.9	1.6	6.8
115+50.00	0.1	3.3	1.0	3.5					
					0.2	5.4	1.9	1.6	5.6
116+00.00	0.1	2.5	1.0	2.5					
					0.2	3.7	1.9	1.6	4.1
116+50.00	0.1	1.5	1.0	1.9					
					0.1	2.0	1.9	1.6	3.0
117+00.00	0.0	0.7	1.0	1.3					
					0.9	1.2	2.0	1.7	1.8
117+50.00	1.0	0.6	1.2	0.6					
					3.0	2.0	2.2	1.9	2.0
118+00.00	2.2	1.6	1.2	1.6					
					4.0	1.6	1.7	1.4	1.5
118+50.00	2.1	0.1	0.6	0.0					
					9.2	5.5	0.9	0.8	10.8
119+00.00	7.8	5.8	0.4	11.7					
					10.0	6.3	2.5	2.1	10.8
119+50.00	3.0	1.0	2.3	0.0					
					4.9	1.2	3.1	2.6	0.0
120+00.00	2.3	0.3	1.1	0.0					
					4.5	0.8	1.5	1.3	0.1
120+50.00	2.6	0.6	0.5	0.1					
					7.3	3.5	0.6	0.5	3.0
121+00.00	5.3	3.2	0.2	3.1					
					8.9	5.1	0.3	0.3	4.7
121+50.00	4.3	2.3	0.1	2.0					
					6.6	2.9	0.4	0.3	2.4
122+00.00	2.8	0.8	0.3	0.6					
					5.4	1.7	0.5	0.4	1.3
122+50.00	3.0	1.0	0.2	0.8					
					5.5	1.8	0.4	0.3	1.6
123+00.00	2.9	0.9	0.2	0.9					
					5.6	1.9	0.4	0.3	2.2

FILE NAME = N:\PROJECTS\0220087.dwg, Wilson\Design\Misc\_Sheets\0220087.dwg - sched1.dwg



**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
8507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = ntumbv	DESIGNED - EPS	REVISED -
PLOT SCALE = 1:8000' / in.	DRAWN - EPS	REVISED -
PLOT DATE = 3/21/2014	CHECKED - DJO	REVISED -
	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES WILSON ROAD UNDERPASS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	17
CONTRACT NO. 63808				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



20100110			
TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
STA	OFFSET	LT / RT	UNIT
113+10.78	45.16	RT	8
113+15.19	227.13	RT	14
113+15.50	234.56	RT	12
113+21.68	235.35	RT	12
113+23.56	58.37	RT	8
113+25.20	44.63	RT	8
113+34.25	301.29	RT	12
113+35.97	48.47	RT	14
113+39.59	44.42	RT	8
113+39.96	277.88	RT	12
113+39.96	277.88	RT	12
113+44.84	44.46	RT	8
113+45.32	216.37	RT	6
113+46.34	272.95	RT	10
113+50.08	50.06	RT	10
113+52.67	297.97	RT	14
113+56.83	270.52	RT	12
113+70.83	277.65	RT	8
113+77.87	279.26	RT	8
113+80.82	231.05	RT	12
113+84.87	270.33	RT	12
113+87.09	324.52	RT	8
113+88.98	314.37	RT	6
113+91.64	172.67	RT	12
113+91.64	175.09	RT	10
113+93.27	44.25	RT	8
114+02.94	43.57	RT	6
114+06.12	261.64	RT	12
114+06.16	73.43	RT	14
114+06.17	76.33	RT	12
114+10.66	46.91	RT	10
114+19.59	243.56	RT	10
114+21.43	52.39	RT	10
114+24.77	325.78	RT	8
114+27.36	118.33	RT	10
114+29.32	247.12	RT	8
114+40.18	314.32	RT	6
114+46.18	100.09	RT	10
114+49.02	321.78	RT	8
114+54.91	139.71	RT	12
114+62.41	346.92	RT	8
114+65.38	149.39	RT	14
114+69.13	327.78	RT	10
114+73.99	328.22	RT	10
114+77.77	380.6	RT	6
114+81.42	154.83	RT	10
114+82.68	354.02	RT	6
114+87.39	316.94	RT	6
114+92.74	353.81	RT	6
114+96.49	316.3	RT	8
114+98.36	178.93	RT	12
115+00.78	334.75	RT	8
115+00.98	425	RT	6
115+01.30	335.05	RT	6
115+04.10	411.74	RT	10
115+06.05	169.57	RT	12
115+08.22	344.71	RT	6
115+08.90	172	RT	8
115+09.75	194.02	RT	14
115+17.48	158.78	RT	12
115+17.70	183.76	RT	10
115+18.90	167.22	RT	12
115+24.28	193.17	RT	12
115+26.26	173.23	RT	10
SUBTOTAL			622

20100110			
TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
STA	OFFSET	LT / RT	UNIT
115+27.95	397.93	RT	6
115+28.85	231.6	RT	10
115+29.11	40.58	RT	10
115+31.21	215.38	RT	8
115+31.79	167.58	RT	10
115+31.96	437.24	RT	8
115+35.35	209.28	RT	8
115+46.80	191.04	RT	8
115+48.88	231.48	RT	10
115+49.02	152.77	RT	10
115+50.85	157.03	RT	8
115+51.82	405.56	RT	10
115+54.65	426.12	RT	10
115+54.78	460.9	RT	8
115+57.19	439.64	RT	14
115+60.14	212.41	RT	10
115+60.49	457.31	RT	6
115+60.75	420.98	RT	10
115+60.91	213.58	RT	8
115+63.67	464.7	RT	8
115+63.72	464.62	RT	8
115+68.62	164.4	RT	8
115+74.20	245.24	RT	8
115+75.00	463.69	RT	8
115+75.19	219.15	RT	10
115+75.24	238.27	RT	8
115+76.78	165.02	RT	8
115+79.31	241.22	RT	8
115+80.72	174.25	RT	12
115+84.68	226.83	RT	8
115+86.55	399.5	RT	12
115+93.16	197.96	RT	14
115+93.59	145.27	RT	12
115+99.35	465.24	RT	8
116+09.06	418.2	RT	6
116+13.84	434.23	RT	8
116+13.96	416.29	RT	8
116+15.84	415.09	RT	10
116+22.77	432.01	RT	6
116+31.09	433.43	RT	12
116+48.90	434.27	RT	8
116+53.02	439.92	RT	6
116+61.07	464.7	RT	8
116+63.99	457.53	RT	6
116+67.94	465.3	RT	8
116+68.32	426.89	RT	12
116+95.16	441.83	RT	8
SUBTOTAL			418
EXTRA 25% FOR GROWTH			540
TOTAL			2698

20100210			
TREE REMOVAL (OVER 15 UNITS DIAMETER)			
STA	OFFSET	LT / RT	UNIT
108+63.70	138.92	RT	24
108+72.93	192.06	RT	20
109+21.23	191.08	RT	18
109+78.27	201.24	RT	20
109+96.28	192.34	RT	28
109+97.28	43.88	RT	22
110+05.13	211.8	RT	20
110+05.81	111.18	RT	20
110+28.28	142.91	RT	16
110+28.28	142.91	RT	16
110+28.28	142.91	RT	16
110+34.10	216.9	RT	24
110+46.93	36.71	RT	16
110+47.52	40.39	RT	20
110+47.90	184.38	RT	26
110+63.70	141.71	RT	22
110+76.65	164.31	RT	30
110+99.09	177.99	RT	18
111+10.23	164.84	RT	16
111+15.42	45.17	RT	20
111+16.56	39.09	RT	22
111+62.86	39.4	RT	18
111+94.12	297.8	RT	18
111+95.90	219.59	RT	16
111+97.12	219.66	RT	16
112+01.74	288.87	RT	16
112+33.18	121.55	RT	28
112+37.69	136.36	RT	20
112+44.13	209.15	RT	20
112+53.44	57.72	RT	24
112+53.84	228.1	RT	16
112+57.67	64.26	RT	36
112+70.10	111.66	RT	36
112+77.44	63.07	RT	20
112+81.65	65.68	RT	26
112+83.36	263.93	RT	52
112+91.33	253.14	RT	16
112+96.06	262.95	RT	40
113+13.44	49.79	RT	20
113+13.88	166.84	RT	24
113+27.92	208.28	RT	20
113+53.27	296.32	RT	26
113+84.95	311.61	RT	18
114+02.13	64.38	RT	24
114+04.25	64.78	RT	24
114+04.26	241.83	RT	24
114+05.87	185.86	RT	16
114+21.84	32.19	RT	30
114+23.77	158.79	RT	24
114+27.50	211.65	RT	24
114+40.31	90.98	RT	16
114+42.89	143.07	RT	24
114+44.86	83.15	RT	22
114+45.49	48.96	RT	34
114+56.88	157.44	RT	24
115+21.22	427.88	RT	20
115+29.11	46.1	RT	20
115+75.71	443.92	RT	18
115+75.98	444.19	RT	16
116+72.03	32.86	RT	30
116+89.09	41.93	RT	24
117+16.97	32.84	RT	20
117+20.00	36.37	RT	24
SUBTOTAL			1418
EXTRA 25% FOR GROWTH			355
TOTAL			1,773

FILE NAME = N:\PROJECTS\0820087\01\08\_Wilson\_Design\Misc\_Sheets\0820087\_01-schedule.dgn



**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
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Chicago, Illinois 60655  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = ntumbey  
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PLOT DATE = 3/21/2014

DESIGNED - EPS  
DRAWN - EPS  
CHECKED - DJO  
DATE - 3/21/2014

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	19
CONTRACT NO. 63808			ILLINOIS FED. AID PROJECT	

**PROJECT COORDINATES - WILSON ROAD**

DESCRIPTION	STATION	NORTHING	EASTING
PC	100+49.30	2,066,157.31	1,037,478.05
PI	104+37.88	2,066,384.01	1,037,162.45
PT	108+16.00	2,066,716.00	1,036,960.52
PC	115+10.00	2,067,308.93	1,036,599.86
PI	124+87.54	2,068,144.10	1,036,091.86
PT	133+58.00	2,069,088.84	1,036,342.99

**PROJECT COORDINATES - PROPOSED PATH**

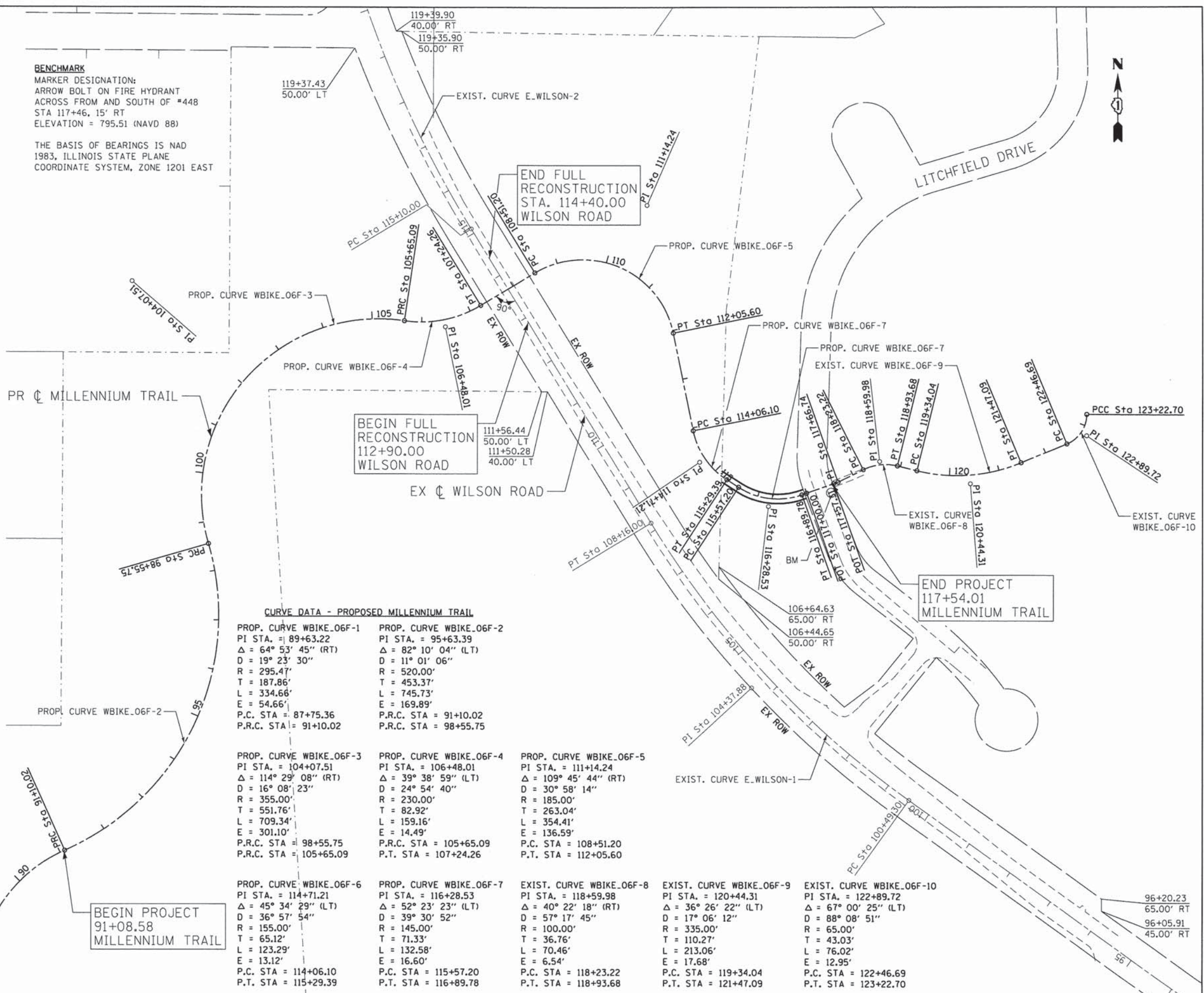
DESCRIPTION	STATION	NORTHING	EASTING
PC	87+75.36	2,065,789.42	1,035,610.12
PI	89+63.22	2,065,977.24	1,035,613.81
PRC	91+10.02	2,066,053.58	1,035,785.45
PI	95+63.39	2,066,237.83	1,036,199.69
PRC	98+55.75	2,066,673.31	1,036,073.61
PI	104+07.51	2,067,203.31	1,035,920.17
PRC	105+65.09	2,067,123.28	1,036,466.09
PI	106+48.01	2,067,111.26	1,036,548.13
PT	107+24.26	2,067,154.35	1,036,618.98
PC	108+51.20	2,067,220.32	1,036,727.43
PI	111+14.24	2,067,357.01	1,036,952.16
PT	112+05.60	2,067,099.30	1,037,004.82
PC	114+06.10	2,066,902.86	1,037,044.96
PI	114+71.21	2,066,839.06	1,037,058.00
PT	115+29.39	2,066,803.72	1,037,112.68
PC	115+57.20	2,066,788.62	1,037,136.04
PI	116+28.53	2,066,749.90	1,037,195.94
PT	116+89.78	2,066,773.73	1,037,263.18
POT	117+00.00	2,066,777.14	1,037,272.81
POT	117+57.31	2,066,796.28	1,037,326.83
POT	117+66.74	2,066,799.43	1,037,335.72
PC	118+23.22	2,066,824.80	1,037,386.19
PI	118+59.98	2,066,841.31	1,037,419.04
PT	118+93.68	2,066,832.61	1,037,454.76
PC	119+34.04	2,066,823.06	1,037,493.96
PI	120+44.31	2,066,796.96	1,037,601.10
PT	121+47.09	2,066,839.61	1,037,702.79
PC	122+46.69	2,066,878.12	1,037,794.64
PI	122+89.72	2,066,894.77	1,037,834.32
PT	123+22.70	2,066,937.79	1,037,834.50

**CURVE DATA - WILSON ROAD**

EXIST. CURVE E.WILSON-1	EXIST. CURVE E.WILSON-2
PI STA. = 104+37.88	PI STA. = 124+87.54
$\Delta = 22^\circ 59' 53''$ (RT)	$\Delta = 46^\circ 11' 48''$ (RT)
D = 2° 59' 59"	D = 2° 29' 59"
R = 1,910.10'	R = 2,292.00'
T = 388.58'	T = 977.54'
L = 766.70'	L = 1,848.00'
E = 39.12'	E = 199.76'
P.C. STA. = 100+49.30	P.C. STA. = 115+10.00
P.T. STA. = 108+16.00	P.T. STA. = 133+58.00

**BENCHMARK**  
 MARKER DESIGNATION:  
 ARROW BOLT ON FIRE HYDRANT  
 ACROSS FROM AND SOUTH OF #448  
 STA 117+46.15' RT  
 ELEVATION = 795.51 (NAVD 88)

THE BASIS OF BEARINGS IS NAD  
 1983, ILLINOIS STATE PLANE  
 COORDINATE SYSTEM, ZONE 1201 EAST



**CURVE DATA - PROPOSED MILLENNIUM TRAIL**

PROP. CURVE WBIKE_06F-1 PI STA. = 89+63.22 $\Delta = 64^\circ 53' 45''$ (RT) D = 19° 23' 30" R = 295.47' T = 187.86' L = 334.66' E = 54.66' P.C. STA. = 87+75.36 P.R.C. STA. = 91+10.02	PROP. CURVE WBIKE_06F-2 PI STA. = 95+63.39 $\Delta = 82^\circ 10' 04''$ (LT) D = 11° 01' 06" R = 520.00' T = 453.37' L = 745.73' E = 169.89' P.R.C. STA. = 91+10.02 P.R.C. STA. = 98+55.75	PROP. CURVE WBIKE_06F-3 PI STA. = 104+07.51 $\Delta = 114^\circ 29' 08''$ (RT) D = 16° 08' 23" R = 355.00' T = 551.76' L = 709.34' E = 301.10' P.R.C. STA. = 98+55.75 P.R.C. STA. = 105+65.09	PROP. CURVE WBIKE_06F-4 PI STA. = 106+48.01 $\Delta = 39^\circ 38' 59''$ (LT) D = 24° 54' 40" R = 230.00' T = 82.92' L = 159.16' E = 14.49' P.R.C. STA. = 105+65.09 P.T. STA. = 107+24.26	PROP. CURVE WBIKE_06F-5 PI STA. = 111+14.24 $\Delta = 109^\circ 45' 44''$ (RT) D = 30° 58' 14" R = 185.00' T = 263.04' L = 354.41' E = 136.59' P.C. STA. = 108+51.20 P.T. STA. = 112+05.60	PROP. CURVE WBIKE_06F-6 PI STA. = 114+71.21 $\Delta = 45^\circ 34' 29''$ (LT) D = 36° 57' 54" R = 155.00' T = 65.12' L = 123.29' E = 13.12' P.C. STA. = 114+06.10 P.T. STA. = 115+29.39	PROP. CURVE WBIKE_06F-7 PI STA. = 116+28.53 $\Delta = 52^\circ 23' 23''$ (LT) D = 39° 30' 52" R = 145.00' T = 71.33' L = 132.58' E = 16.60' P.C. STA. = 115+57.20 P.T. STA. = 116+89.78	EXIST. CURVE WBIKE_06F-8 PI STA. = 118+93.68 $\Delta = 40^\circ 22' 18''$ (RT) D = 57° 17' 45" R = 100.00' T = 36.76' L = 70.46' E = 6.54' P.C. STA. = 118+23.22 P.T. STA. = 118+93.68	EXIST. CURVE WBIKE_06F-9 PI STA. = 120+44.31 $\Delta = 36^\circ 26' 22''$ (LT) D = 17° 06' 12" R = 335.00' T = 110.27' L = 213.06' E = 17.68' P.C. STA. = 119+34.04 P.T. STA. = 121+47.09	EXIST. CURVE WBIKE_06F-10 PI STA. = 122+89.72 $\Delta = 67^\circ 00' 25''$ (LT) D = 88° 08' 51" R = 65.00' T = 43.03' L = 76.02' E = 12.95' P.C. STA. = 122+46.69 P.T. STA. = 123+22.70
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 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60658  
 Tel. 773.775.4009 Fax 773.775.4014

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

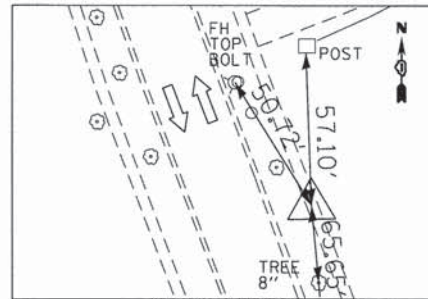
**ALIGNMENTS, TIES AND BENCHMARKS  
 WILSON ROAD UNDERPASS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	20

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

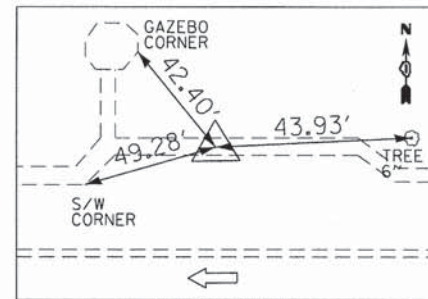
**CONTRACT NO. 63808**

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
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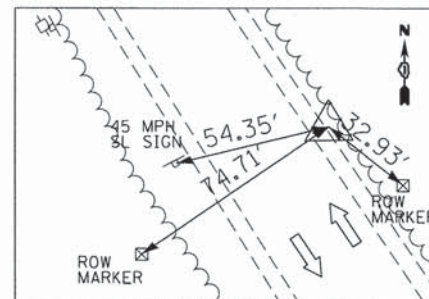
**CONTROL POINT CGI 1**  
CHISELED "X" IN CONCRETE WALK NEAR BUILDING #448

N: 2,066,734.742      STA: 105+91.31  
E: 1,037,348.176      OS: 330.02 RT  
ELEV: 793.817



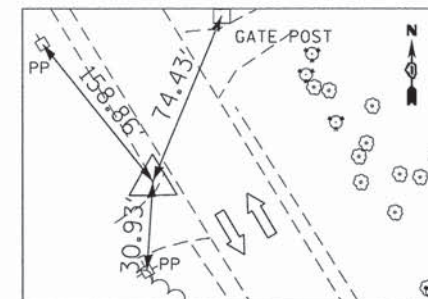
**CONTROL POINT CGI 2**  
CHISELED "X" IN CONC WALK N. SIDE OF BLDG #452 & 402

N: 2,066,862.029      STA: 107+84.69  
E: 1,037,250.634      OS: 323.54 RT  
ELEV: 793.365



**CONTROL POINT CGI 3**  
IRON PIPE ON EAST SIDE OF SHOULDER OF WILSON RD

N: 2,066,756.471      STA: 108+46.15  
E: 1,036,969.033      OS: 28.31 RT  
ELEV: 798.670



**CONTROL POINT CGI 4**  
IRON PIPE ON WEST SIDE OF SHOULDER OF WILSON RD  
ACROSS FROM BLDG #321

N: 2,067,153.342      STA: 113+40.37  
E: 1,036,670.489      OS: 20.52 LT  
ELEV: 800.490

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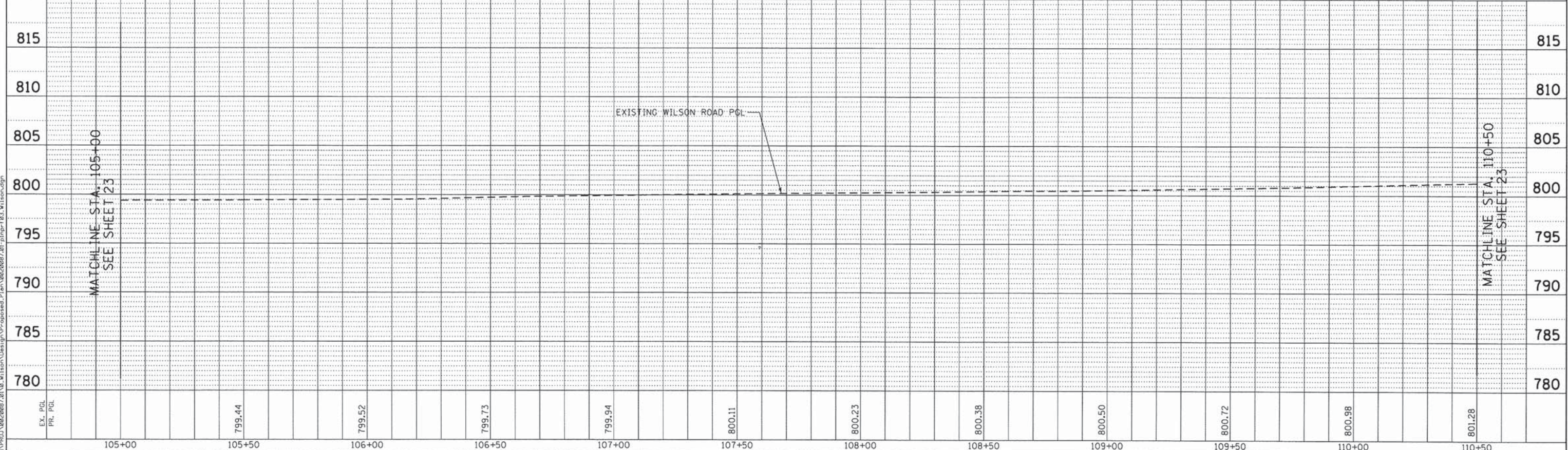
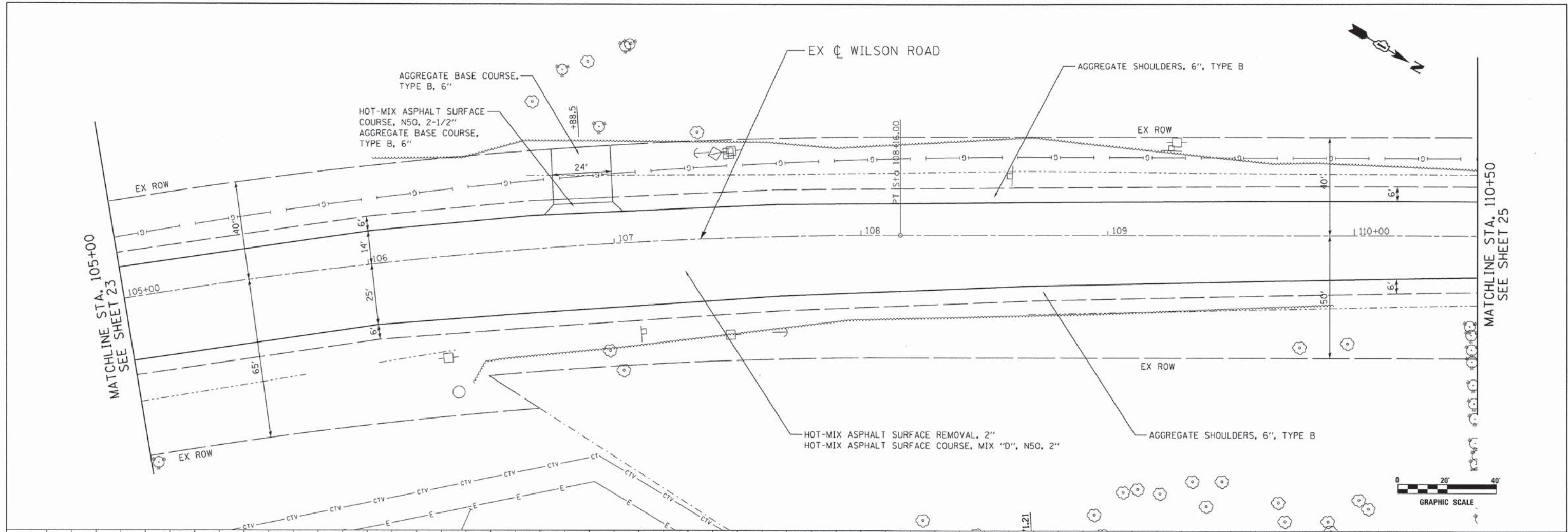
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<b>ALIGNMENTS, TIES AND BENCHMARKS</b>			
<b>WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	21
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				<b>CONTRACT NO. 63808</b>







EX. P&I PR. P&I	799.44	799.52	799.73	799.94	800.11	800.23	800.38	800.50	800.72	800.98	801.28
105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50

**Ciorba Group, Inc.**  
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USER NAME = ntumbv	DESIGNED - EPS	REVISED -
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DATE - 3/21/2014		

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

**WILSON ROAD - ROADWAY PLAN & PROFILE**  
**WILSON ROAD UNDERPASS**

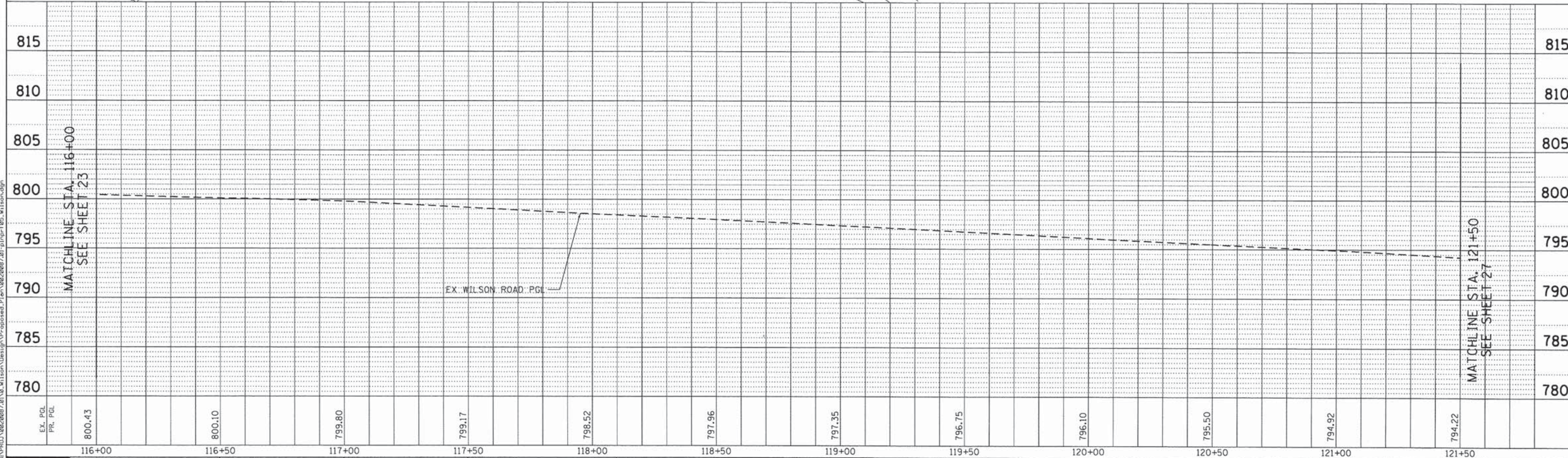
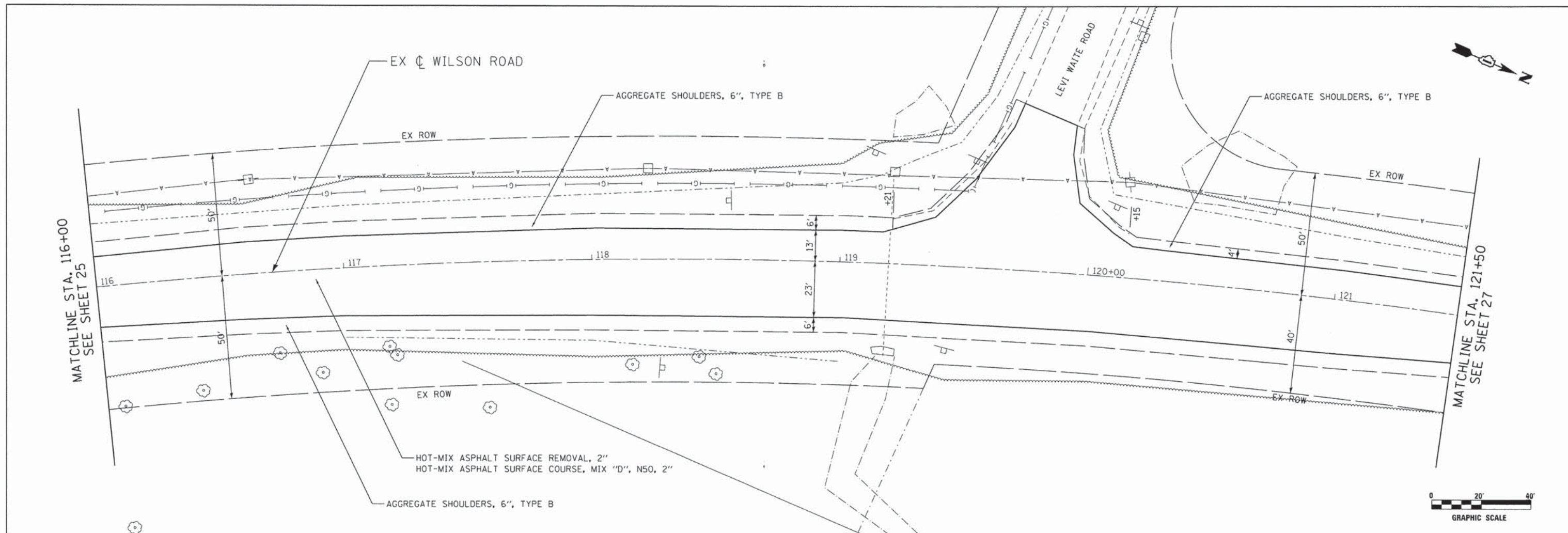
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F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 24
CONTRACT NO. 63808				

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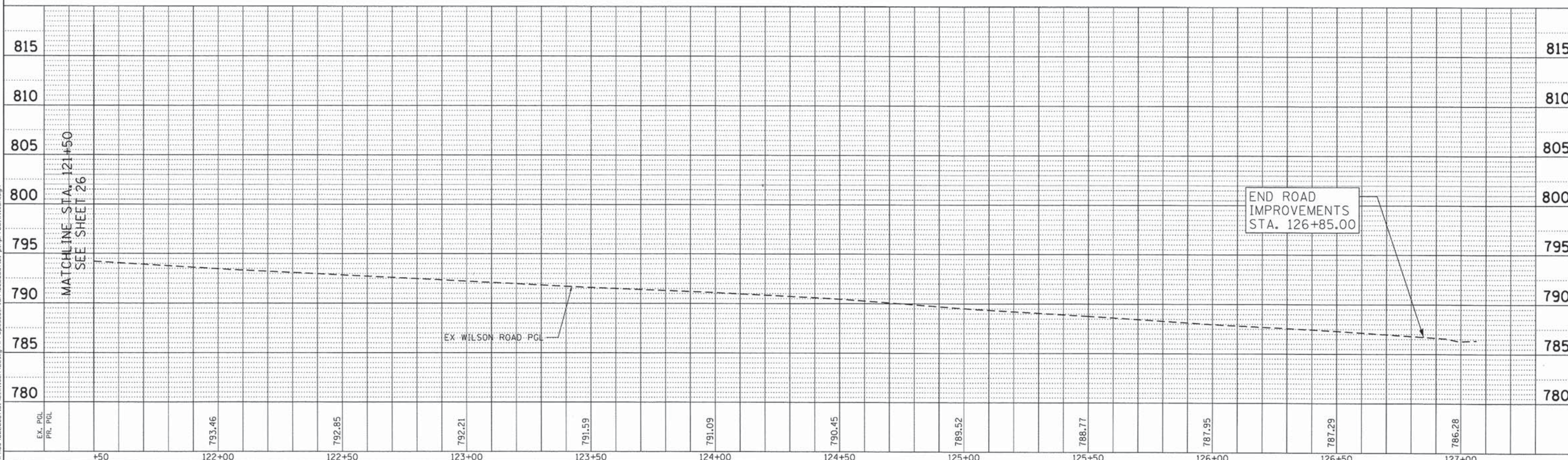
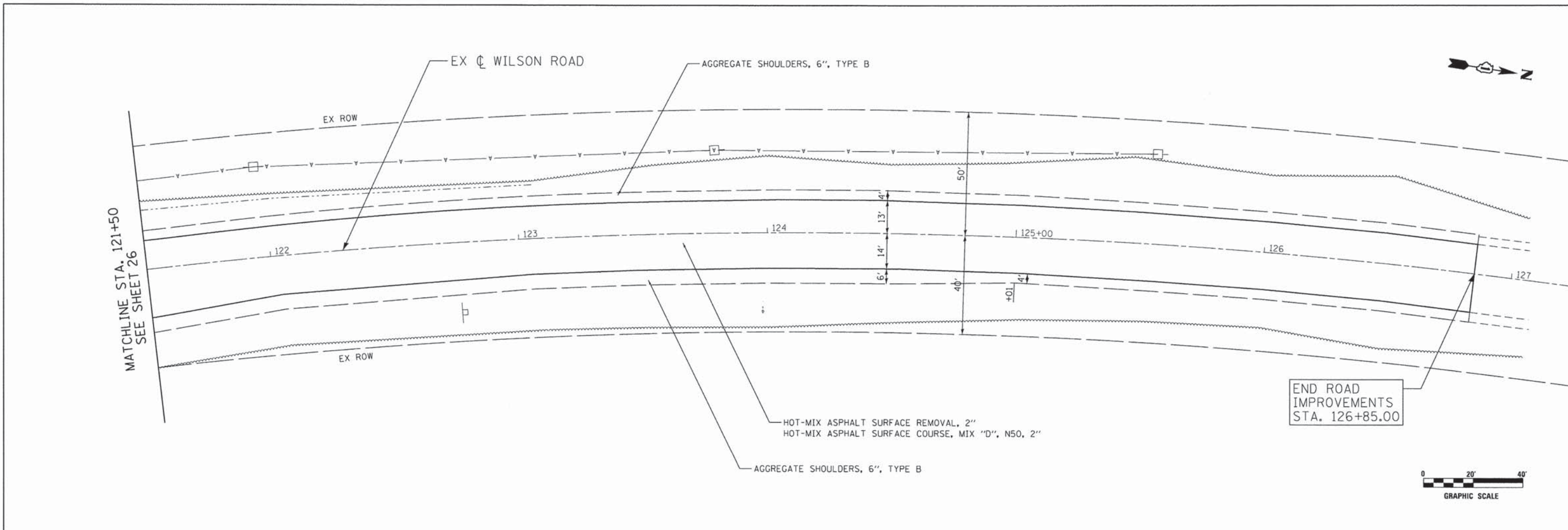
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WILSON ROAD - ROADWAY PLAN & PROFILE**  
**WILSON ROAD UNDERPASS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	26
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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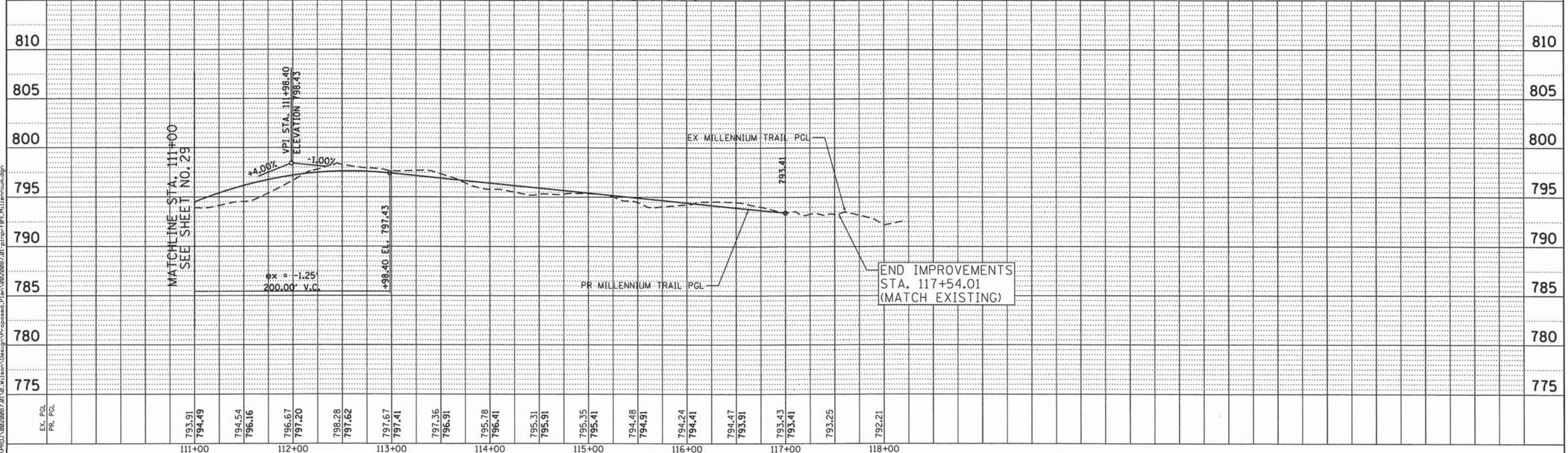
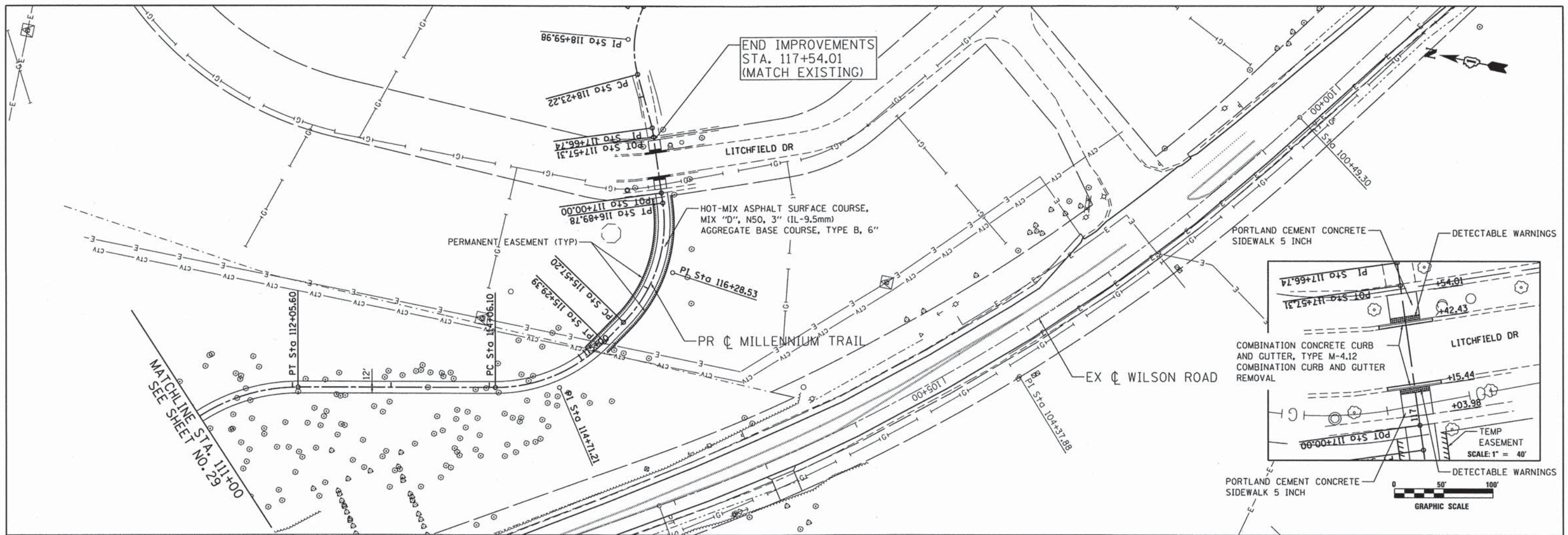


<b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	USER NAME = ntumbav DESIGNED - EPS DRAWN - EPS CHECKED - DJO DATE - 3/21/2014	REVISIONS REVISIONS REVISIONS REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WILSON ROAD - ROADWAY PLAN &amp; PROFILE</b> <b>WILSON ROAD UNDERPASS</b>		F.A.U. RTE. 178 SECTION 14-F3000-02-BT COUNTY LAKE TOTAL SHEETS 165 SHEET NO. 27
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PR. PCL																												
	111+00	112+00							113+00				114+00				115+00				116+00			117+00			118+00	

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

**MILLENNIUM TRAIL - PLAN & PROFILE**  
**WILSON ROAD UNDERPASS**

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

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 30
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**CONSTRUCTION SEQUENCE**

**PRE-STAGE**

**CONSTRUCTION:**

INSTALL PERIMETER EROSION BARRIER AND AND EROSION CONTROL MEASURES TO PROTECT EXISTING DRAINAGE SYSTEM, CONSTRUCT TEMPORARY PAVEMENT, TEMPORARY DITCHES, AND STORM SEWER ALONG SOUTHBOUND WILSON ROAD. REMOVE CONFLICTING TREES. POWER POLES ARE TO BE RELOCATED BY THE UTILITY COMPANY IN ADVANCE OF TEMPORARY PAVEMENT CONSTRUCTION.

**TRAFFIC CONTROL:**

CLOSE SOUTHBOUND SHOULDER UTILIZING STATE STANDARDS 701201 AND 701326.

**STAGE 1**

**CONSTRUCTION:**

CONSTRUCT NORTHBOUND WILSON ROAD UNDERPASS AND BINDER COURSE. CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHES ALONG NORTHBOUND WILSON ROAD. CONSTRUCT MILLENNIUM TRAIL EAST OF WILSON ROAD. INSTALL DITCH CHECKS. PLACE TEMPORARY SEED AS DIRECTED.

**TRAFFIC CONTROL:**

WEAVE NORTHBOUND AND SOUTHBOUND TRAFFIC LANES ONTO SOUTHBOUND TRAFFIC LANE AND TEMPORARY PAVEMENT.

**STAGE 2**

**CONSTRUCTION:**

CONSTRUCT SOUTHBOUND WILSON ROAD UNDERPASS AND BINDER COURSE. REMOVE TEMPORARY PAVEMENT ALONG SOUTHBOUND WILSON ROAD AND CONSTRUCT SOUTHBOUND AGGREGATE SHOULDERS AND DITCHES. CONSTRUCT MILLENNIUM TRAIL WEST OF WILSON ROAD. INSTALL DITCH CHECKS. PLACE TEMPORARY SEED AS DIRECTED.

**TRAFFIC CONTROL:**

WEAVE NORTHBOUND AND SOUTHBOUND TRAFFIC LANES ONTO NORTHBOUND TRAFFIC LANE AND TEMPORARY PAVEMENT.

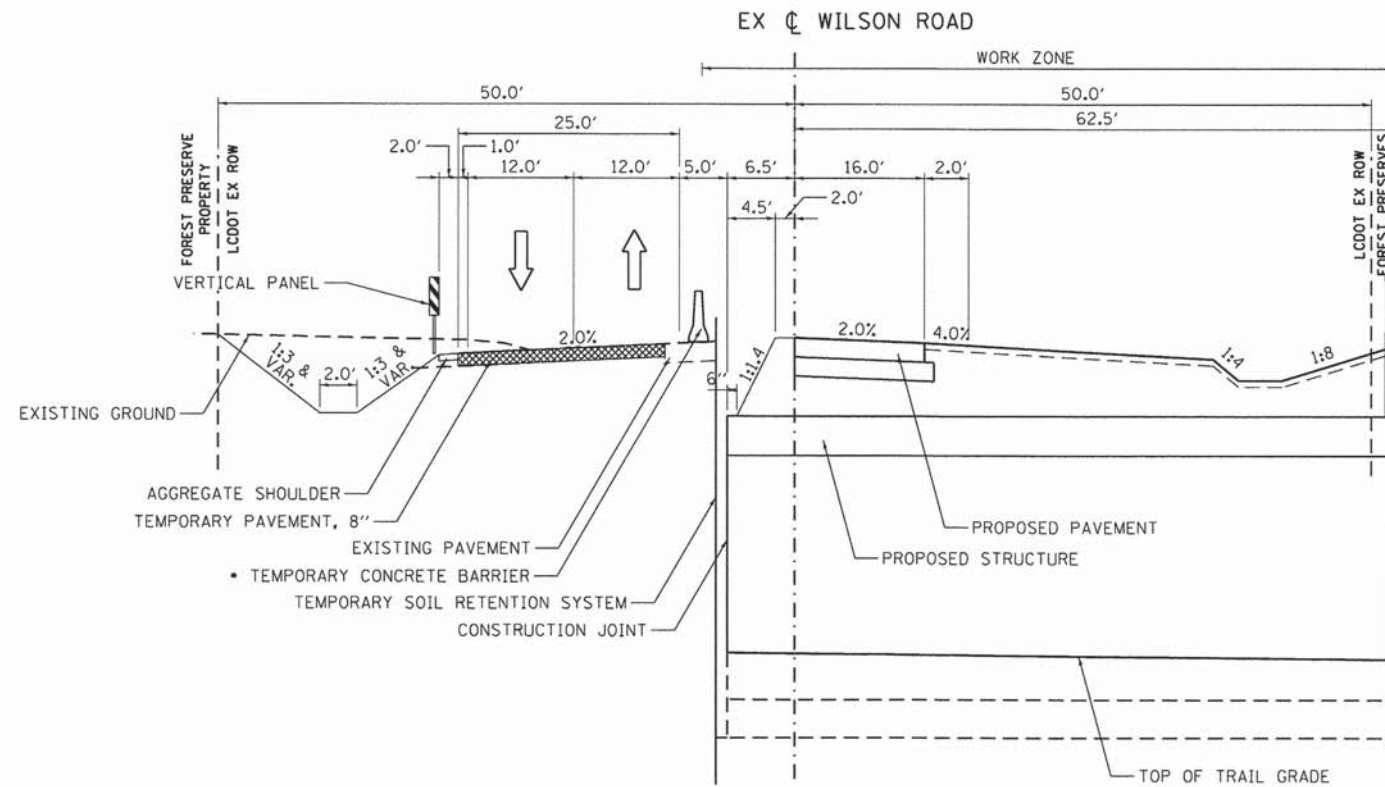
**STAGE 3**

**CONSTRUCTION:**

REMOVE TEMPORARY PAVEMENT ALONG NORTHBOUND LANE AND CONSTRUCT NORTHBOUND AGGREGATE SHOULDERS AND DITCHES. CONSTRUCT SURFACE COURSE AND FINAL PAVEMENT MARKINGS. PLACE PERMANENT SEED IN ALL DISTURBED AREAS.

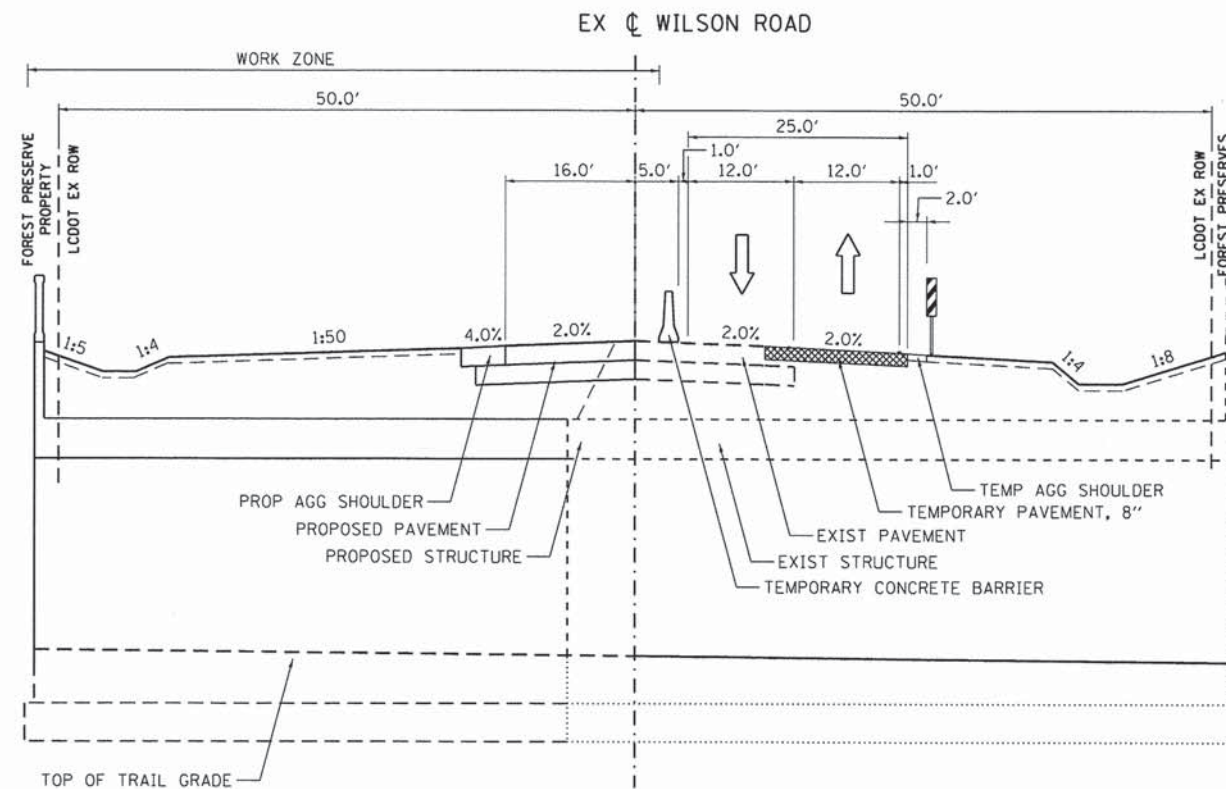
**TRAFFIC CONTROL:**

PERFORM ROADSIDE WORK UTILIZING STATE STANDARD 701006. PERFORM PAVING AND STRIPING OPERATIONS UTILIZING STATE STANDARD 701501.



**STAGE 1 TYPICAL**  
STA. 113+58 TO STA. 113+78

• TEMPORARY TRAFFIC BARRIER SHALL BE PINNED FOR STAGE I CONSTRUCTION FROM STA 112+90 TO STA 114+40



**STAGE 2 TYPICAL**  
STA. 113+58 TO STA. 113+78

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USER NAME = rumbav	DESIGNED - EPS	REVISED -
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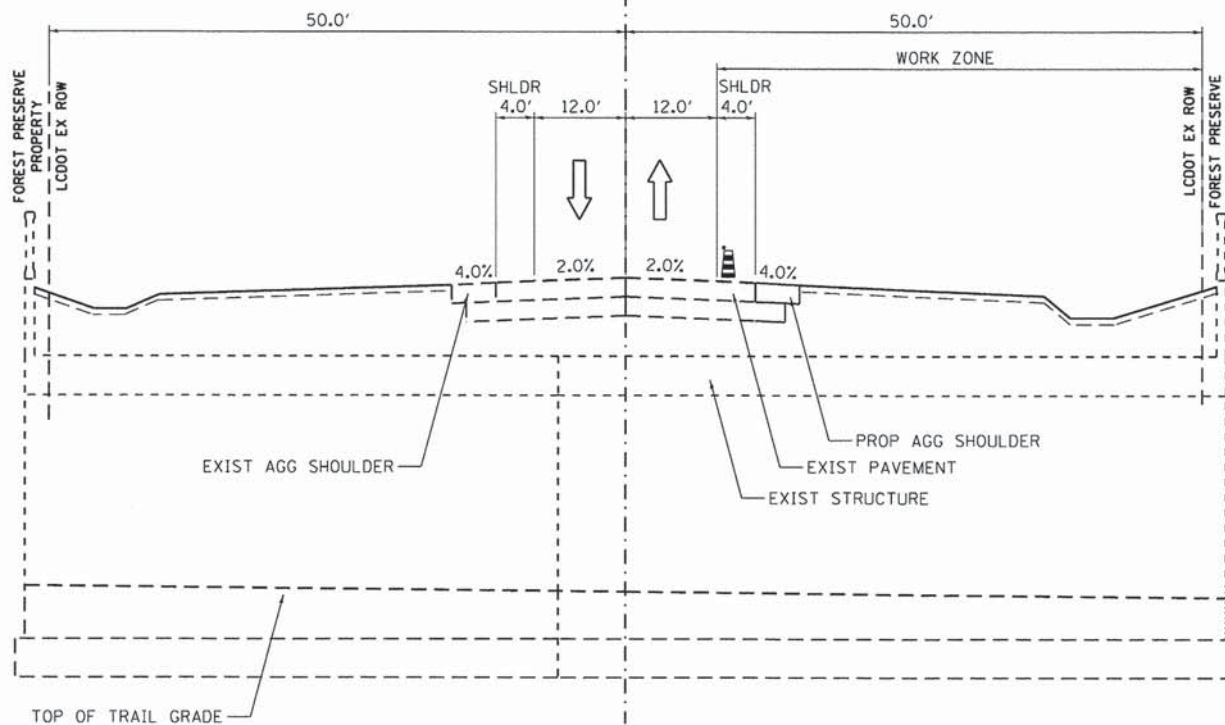
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>STAGING TYPICAL SECTIONS</b>			
<b>WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	31
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	

STA. 113+58 TO STA. 113+78

EX WILSON ROAD



STAGE 3 TYPICAL  
STA. 113+58 TO STA. 113+78

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USER NAME = ntumbav	DESIGNED - EPS	REVISED -
	DRAWN - EPS	REVISED -
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PLOT DATE = 3/21/2014	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

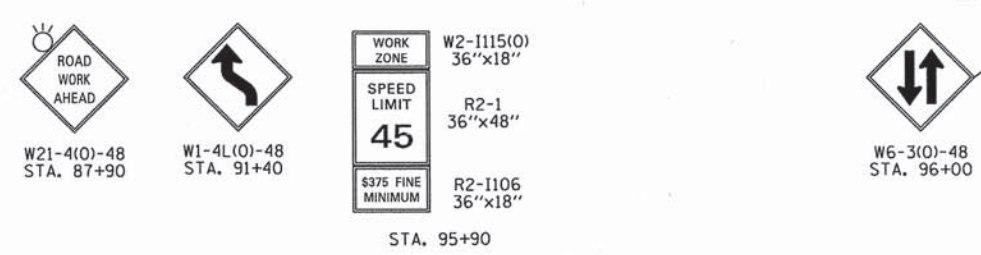
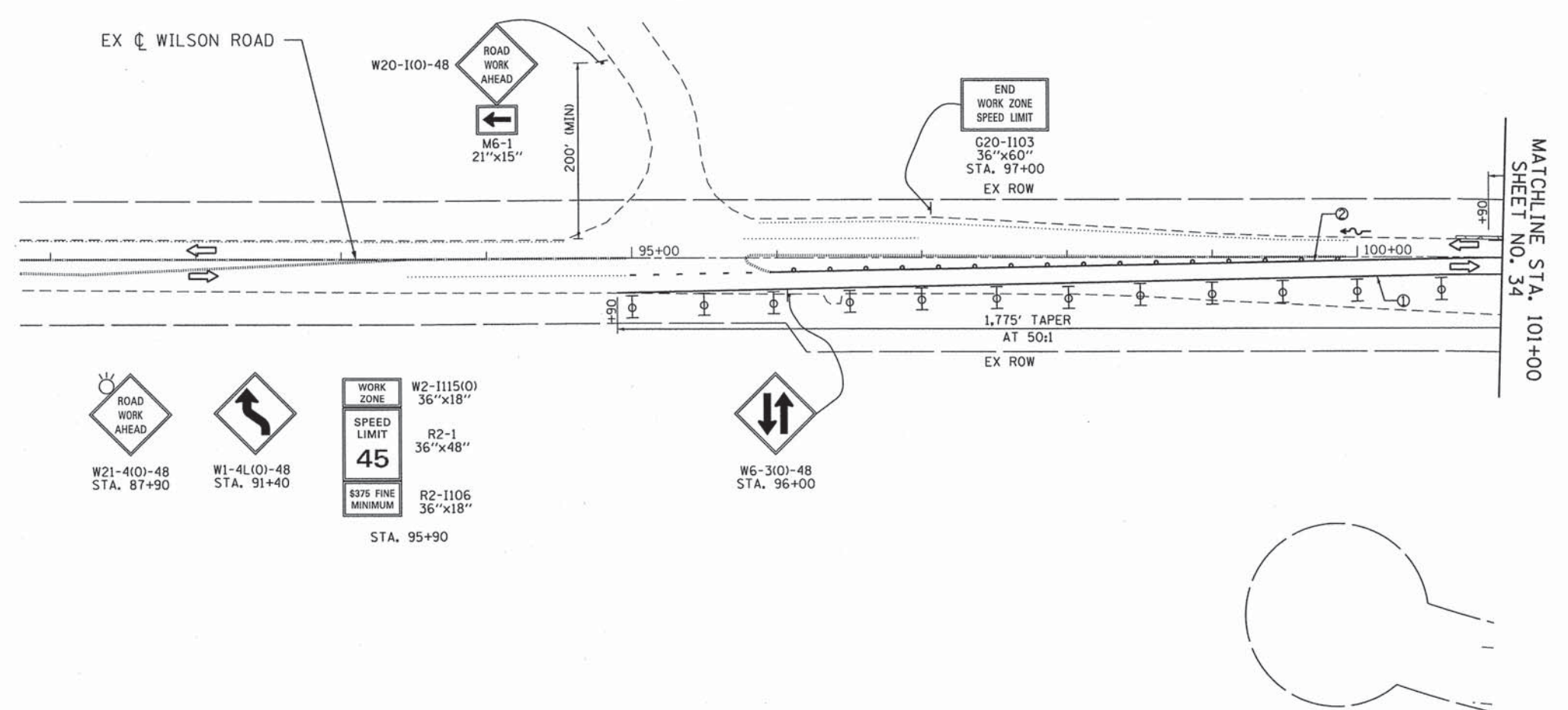
<b>STAGING TYPICAL SECTIONS WILSON ROAD UNDERPASS</b>	
SCALE:	SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	32
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



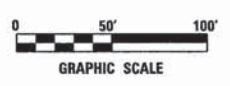


- NOTES:
1. SPACING OF ALL DRUMS AND BARRICADES ALONG WILSON ROAD SHALL BE AT 50 FT C-C ON TANGENTS AND 25 FT C-C ON TAPERS AND CURVES.
  2. FLEXIBLE DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT STANDARD 701431.
  3. ALL EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.



**LEGEND**

	WORK ZONE	①	TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
	TEMPORARY PAVEMENT, 8" (HMA BINDER IL-19.0mm)	②	TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
	DIRECTION OF TRAVEL	③	TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE 2' DASH - 6' SKIP)
	DRUM W/ STEADY BURN LIGHT	⊕	DIRECTION INDICATOR BARRICADE W/ STEADY BURN LIGHT
	TEMP CONCRETE BARRIER W/ REFLECTORS	⊥	VERTICAL PANELS AT 50' C-C SPACING
	BARRICADE, TYPE III		



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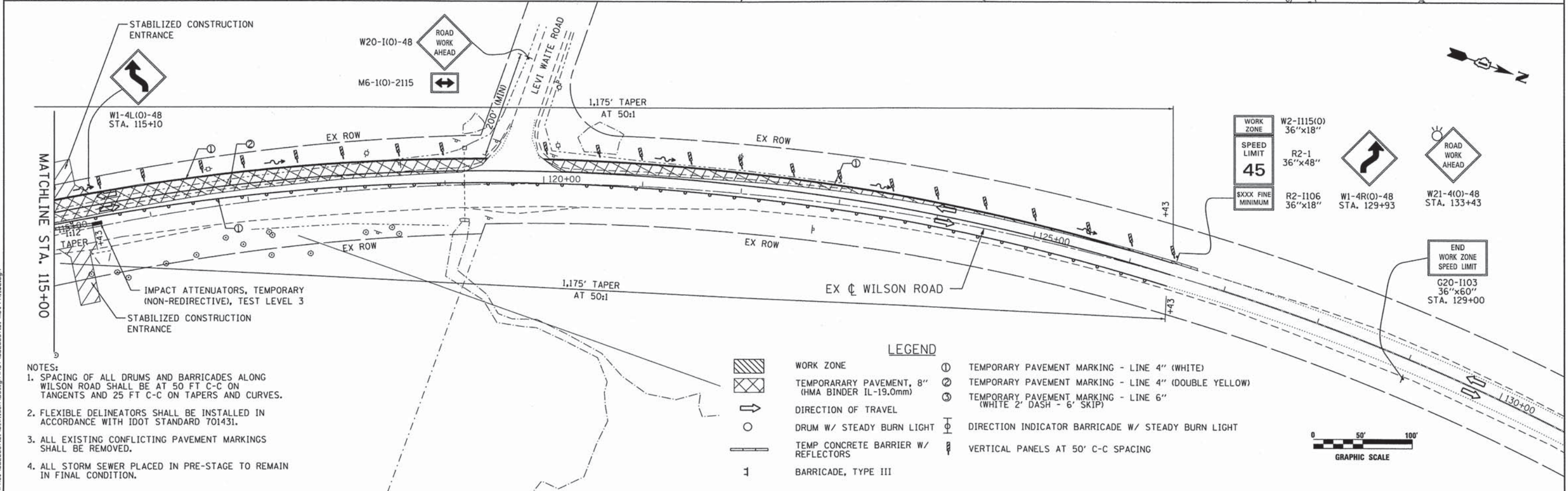
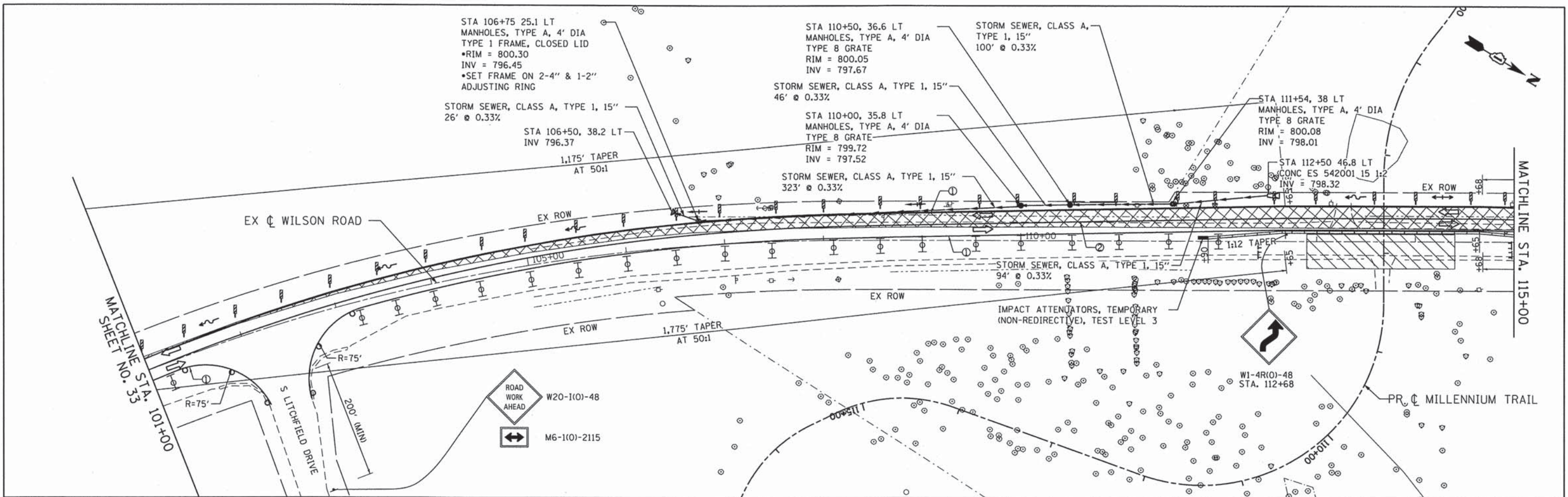
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION - STAGE 1  
 WILSON ROAD UNDERPASS**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	33
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



- NOTES:**
- SPACING OF ALL DRUMS AND BARRICADES ALONG WILSON ROAD SHALL BE AT 50 FT C-C ON TANGENTS AND 25 FT C-C ON TAPERS AND CURVES.
  - FLEXIBLE DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT STANDARD 701431.
  - ALL EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
  - ALL STORM SEWER PLACED IN PRE-STAGE TO REMAIN IN FINAL CONDITION.

- LEGEND**
- WORK ZONE
  - TEMPORARY PAVEMENT, 8" (HMA BINDER IL-19.0mm)
  - DIRECTION OF TRAVEL
  - DRUM W/ STEADY BURN LIGHT
  - TEMP CONCRETE BARRIER W/ REFLECTORS
  - BARRICADE, TYPE III
  - TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
  - TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
  - TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE 2' DASH - 6' SKIP)
  - DIRECTION INDICATOR BARRICADE W/ STEADY BURN LIGHT
  - VERTICAL PANELS AT 50' C-C SPACING

**WORK ZONE**  
W2-1115(0) 36"x18"

**SPEED LIMIT**  
45

**SXXX FINE MINIMUM**  
R2-1106 36"x18"R2-1 36"x48"W1-4R(0)-48 STA. 129+93  
W21-4(0)-48 STA. 133+43

**END WORK ZONE SPEED LIMIT**  
G20-1103 36"x60" STA. 129+00



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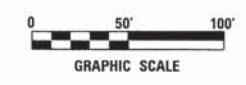
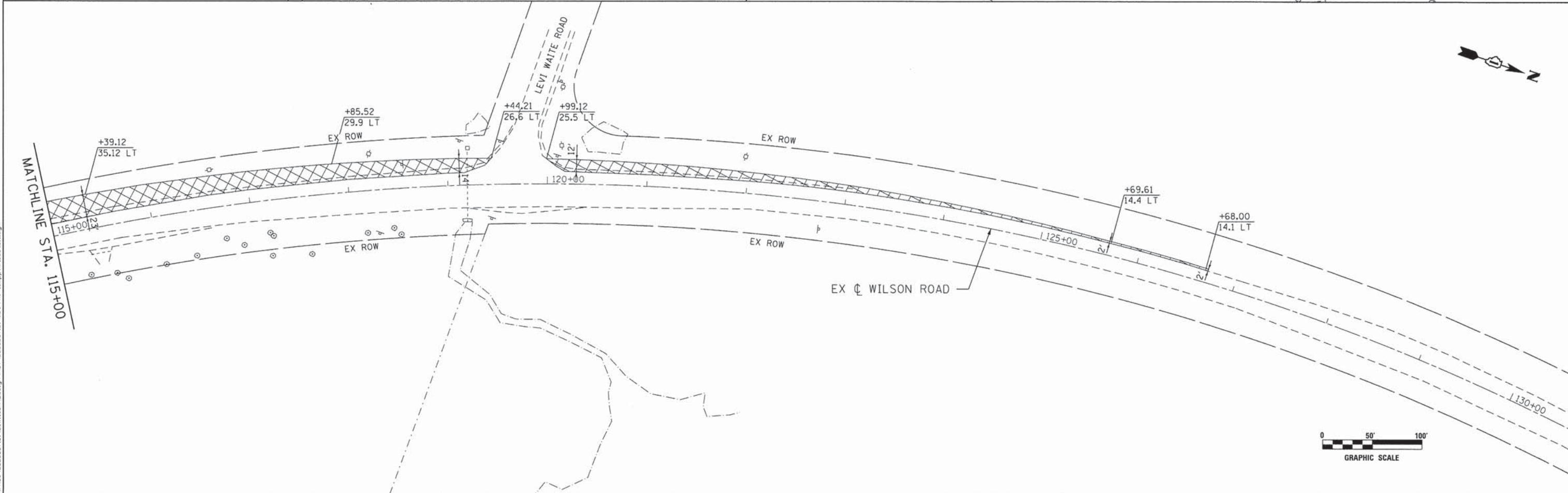
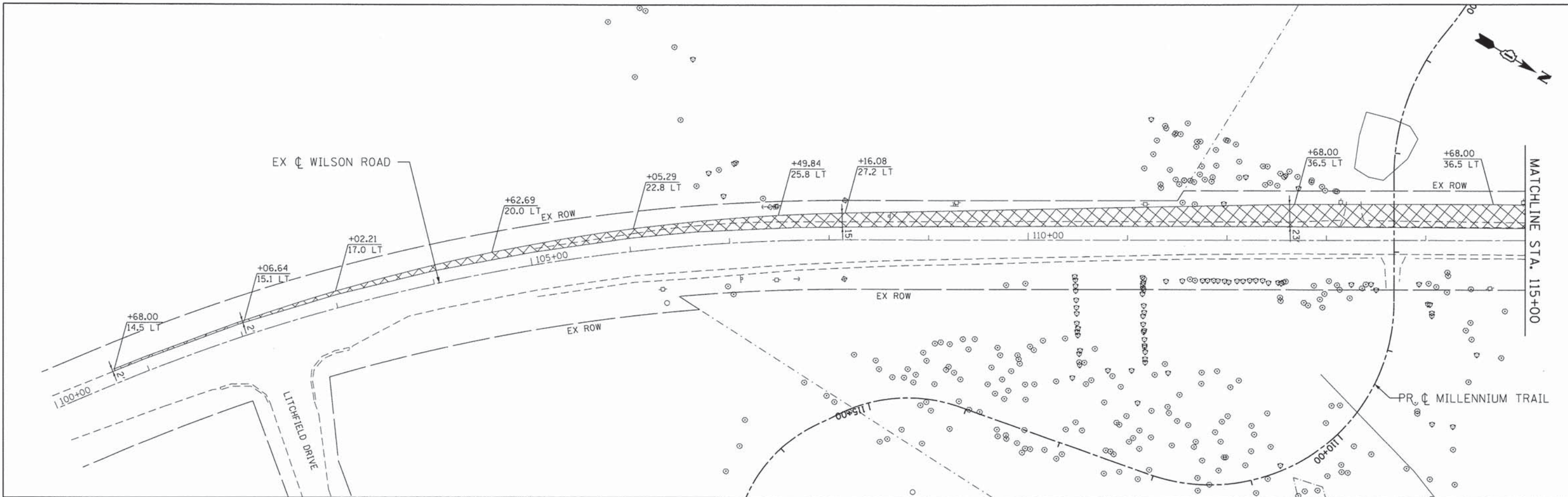
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION - STAGE 1  
WILSON ROAD UNDERPASS**

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

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 34
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

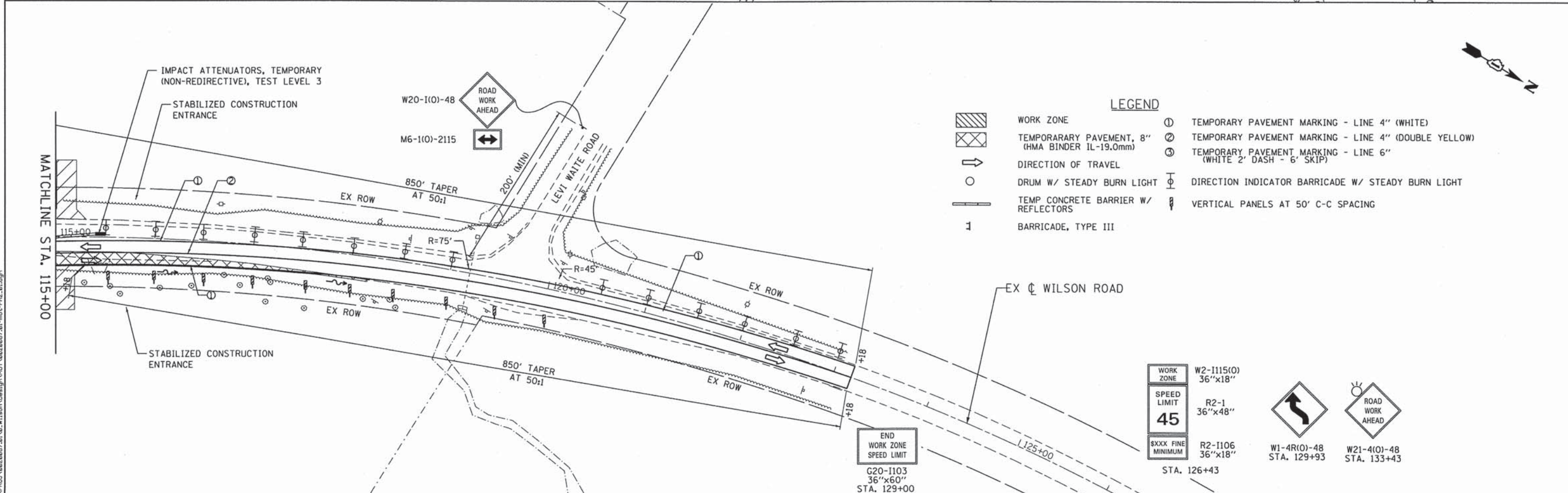
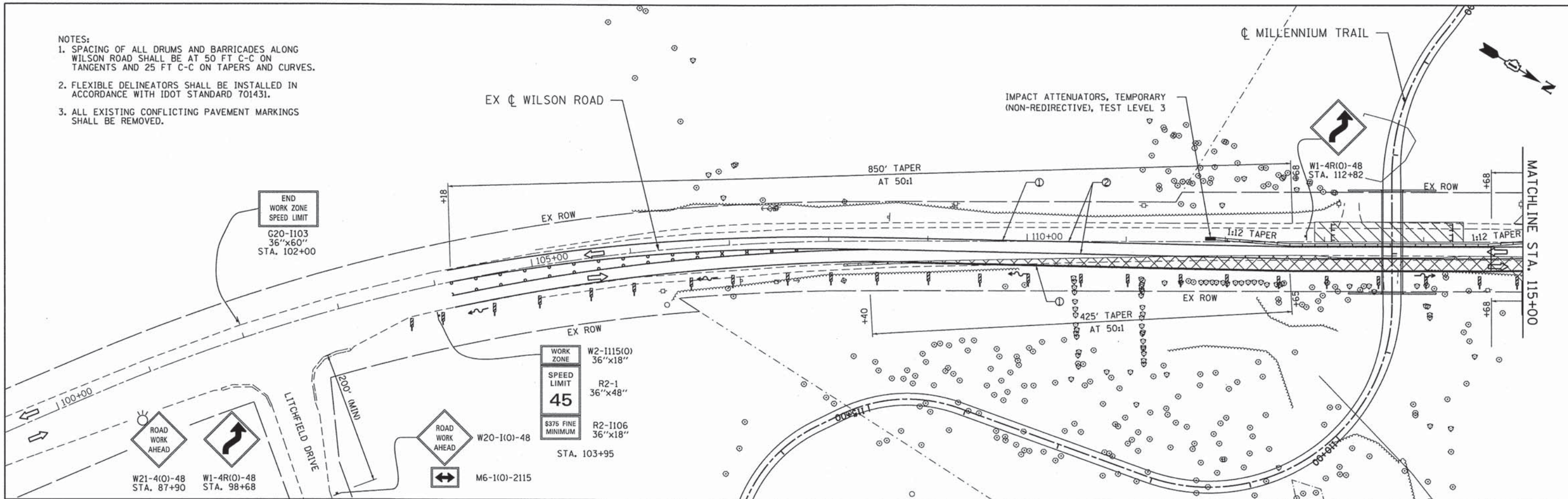


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<b>Ciorba Group, Inc.</b> CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	USER NAME = ntumbv	DESIGNED - EPS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY PAVEMENT DETAIL - STAGE 1</b> <b>WILSON ROAD UNDERPASS</b>				F.A.U. RTE. = 178	SECTION = 14-F3000-02-BT	COUNTY = LAKE	TOTAL SHEETS = 165	SHEET NO. = 35
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PLOT DATE = 3/21/2014	DATE = 3/21/2014	REVISED -			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT								

**NOTES:**

1. SPACING OF ALL DRUMS AND BARRICADES ALONG WILSON ROAD SHALL BE AT 50 FT C-C ON TANGENTS AND 25 FT C-C ON TAPERS AND CURVES.
2. FLEXIBLE DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT STANDARD 701431.
3. ALL EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.



**LEGEND**

	WORK ZONE	①	TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
	TEMPORARY PAVEMENT, 8" (HMA BINDER IL-19.0mm)	②	TEMPORARY PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
	DIRECTION OF TRAVEL	③	TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE 2' DASH - 6' SKIP)
	DRUM W/ STEADY BURN LIGHT	⊕	DIRECTION INDICATOR BARRICADE W/ STEADY BURN LIGHT
	TEMP CONCRETE BARRIER W/ REFLECTORS	⊥	VERTICAL PANELS AT 50' C-C SPACING
	BARRICADE, TYPE III		

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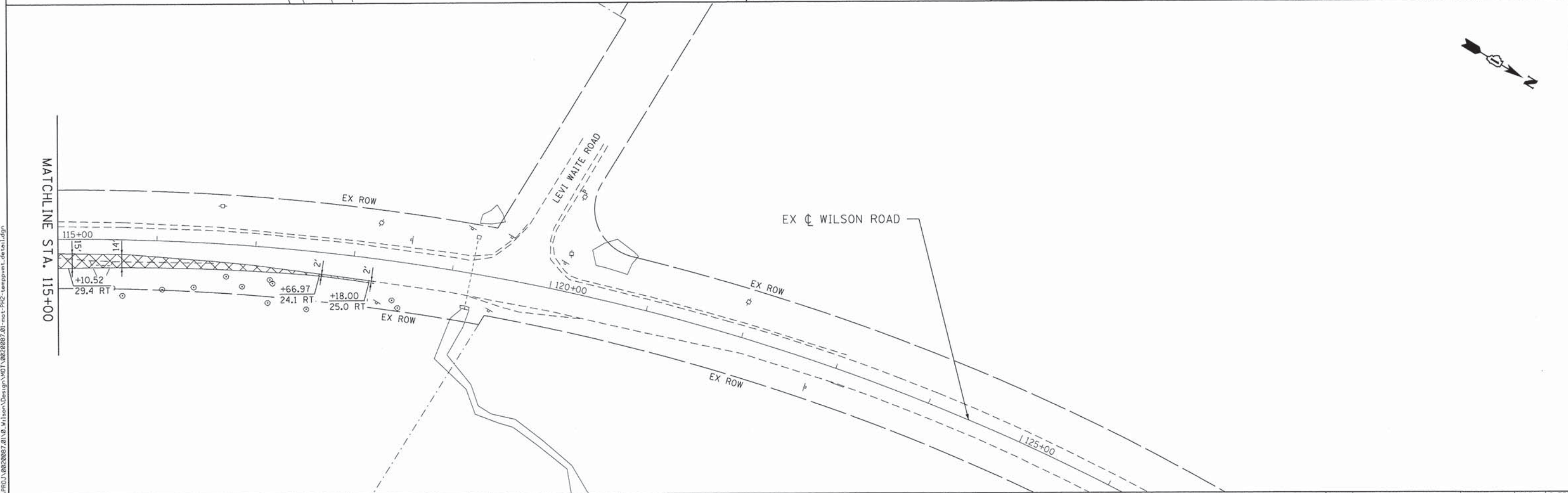
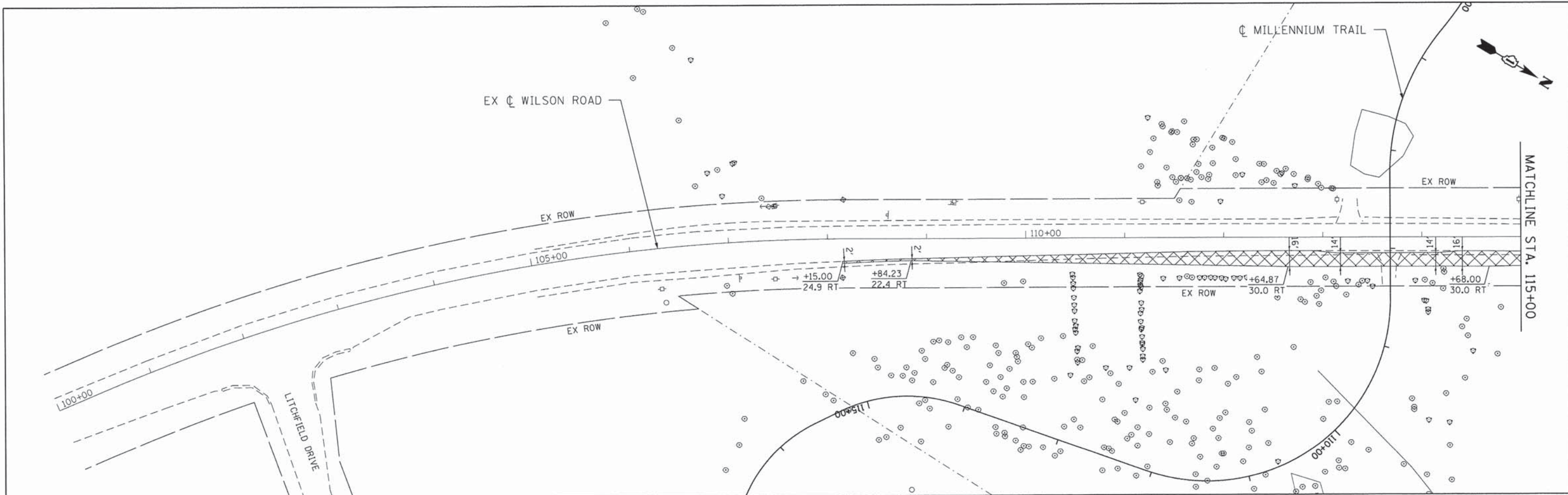
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGES OF CONSTRUCTION - STAGE 2  
 WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	36
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



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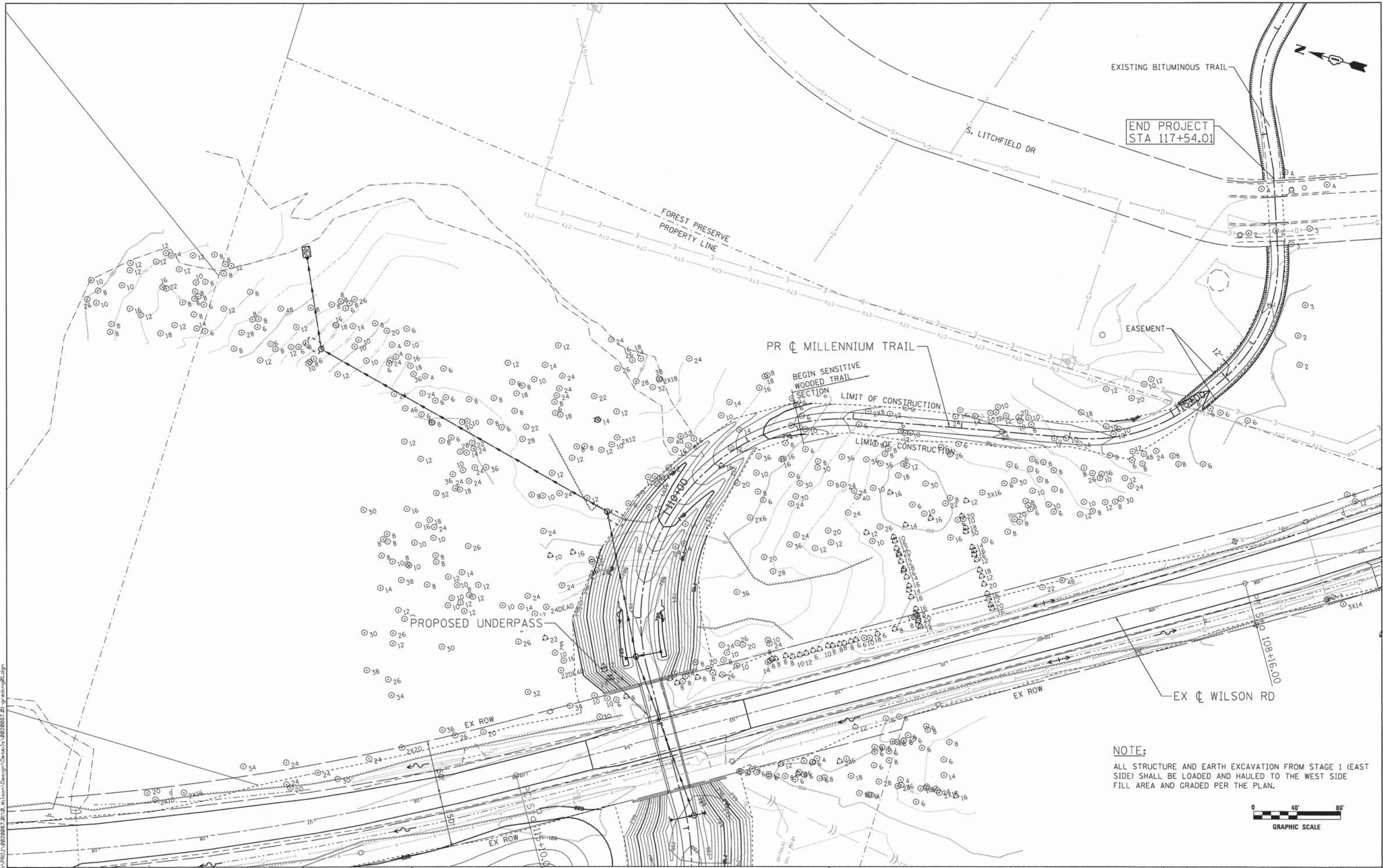
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

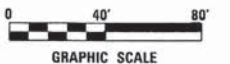
**TEMPORARY PAVEMENT DETAIL - STAGE 2  
 WILSON ROAD UNDERPASS**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	37
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



**NOTE:**  
 ALL STRUCTURE AND EARTH EXCAVATION FROM STAGE 1 (EAST SIDE) SHALL BE LOADED AND HAULED TO THE WEST SIDE FILL AREA AND GRADED PER THE PLAN.



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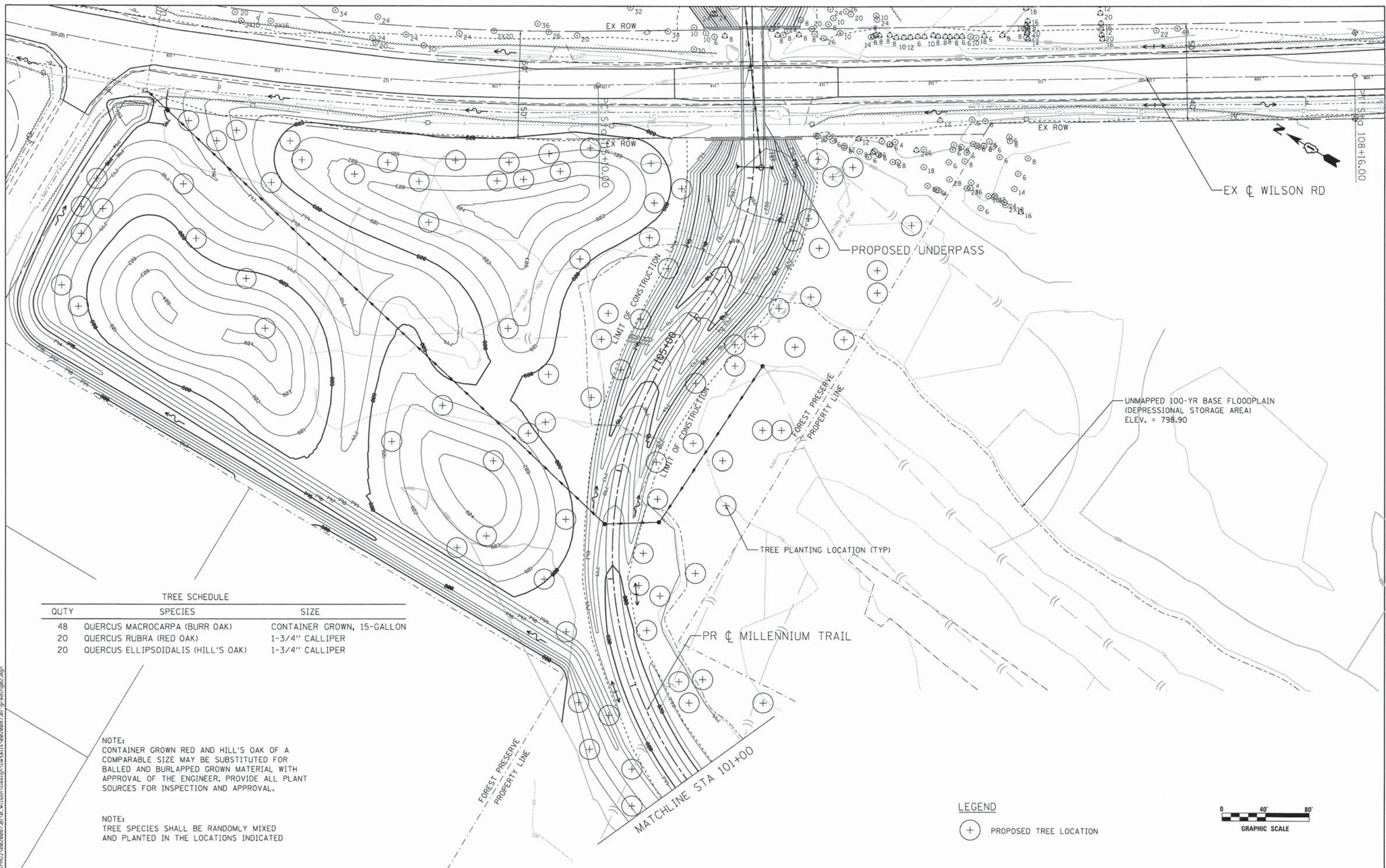
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>GRADING PLAN (EAST) - MILLENNIUM TRAIL    WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	38
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	



**TREE SCHEDULE**

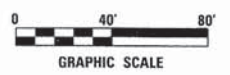
QTY	SPECIES	SIZE
48	QUERCUS MACROCARPA (BURR OAK)	CONTAINER GROWN, 15-GALLON
20	QUERCUS RUBRA (RED OAK)	1-3/4" CALLIPER
20	QUERCUS ELLIPSOIDALIS (HILL'S OAK)	1-3/4" CALLIPER

NOTE:  
CONTAINER GROWN RED AND HILL'S OAK OF A COMPARABLE SIZE MAY BE SUBSTITUTED FOR BALLED AND BURLAPPED GROWN MATERIAL WITH APPROVAL OF THE ENGINEER. PROVIDE ALL PLANT SOURCES FOR INSPECTION AND APPROVAL.

NOTE:  
TREE SPECIES SHALL BE RANDOMLY MIXED AND PLANTED IN THE LOCATIONS INDICATED

**LEGEND**

(+) PROPOSED TREE LOCATION



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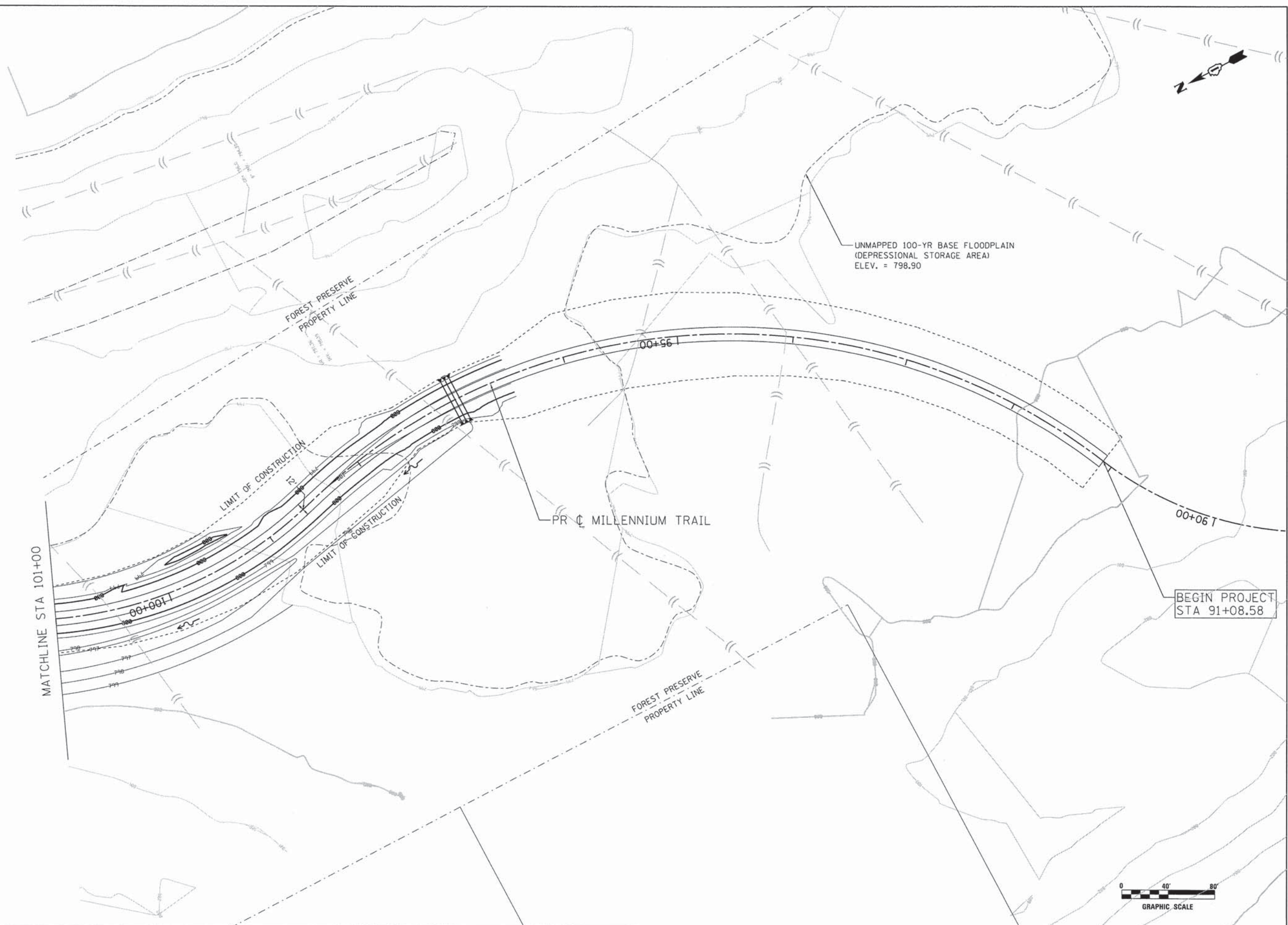
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GRADING PLAN (WEST) - MILLENNIUM TRAIL WILSON ROAD UNDERPASS</b>	
SCALE:	STA. TO STA.
SHEET NO.	OF SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	39
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



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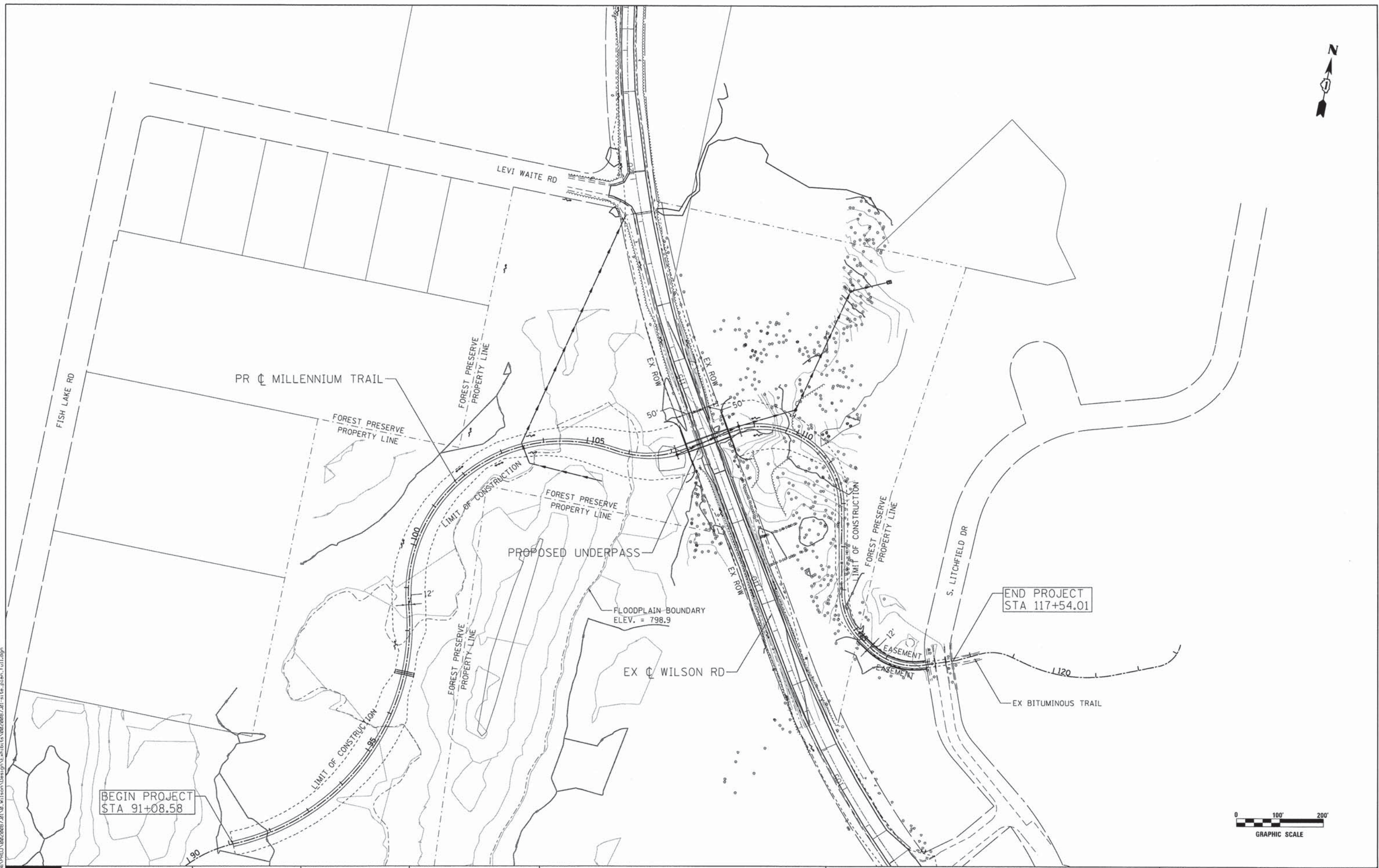
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN (SOUTH-WEST) - MILLENNIUM TRAIL  
 WILSON ROAD UNDERPASS**

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 40
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	

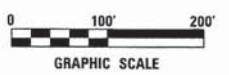
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STA 91+08.58

END PROJECT  
STA 117+54.01



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DEPARTMENT OF TRANSPORTATION**

<b>SITE PLAN - MILLENNIUM TRAIL WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

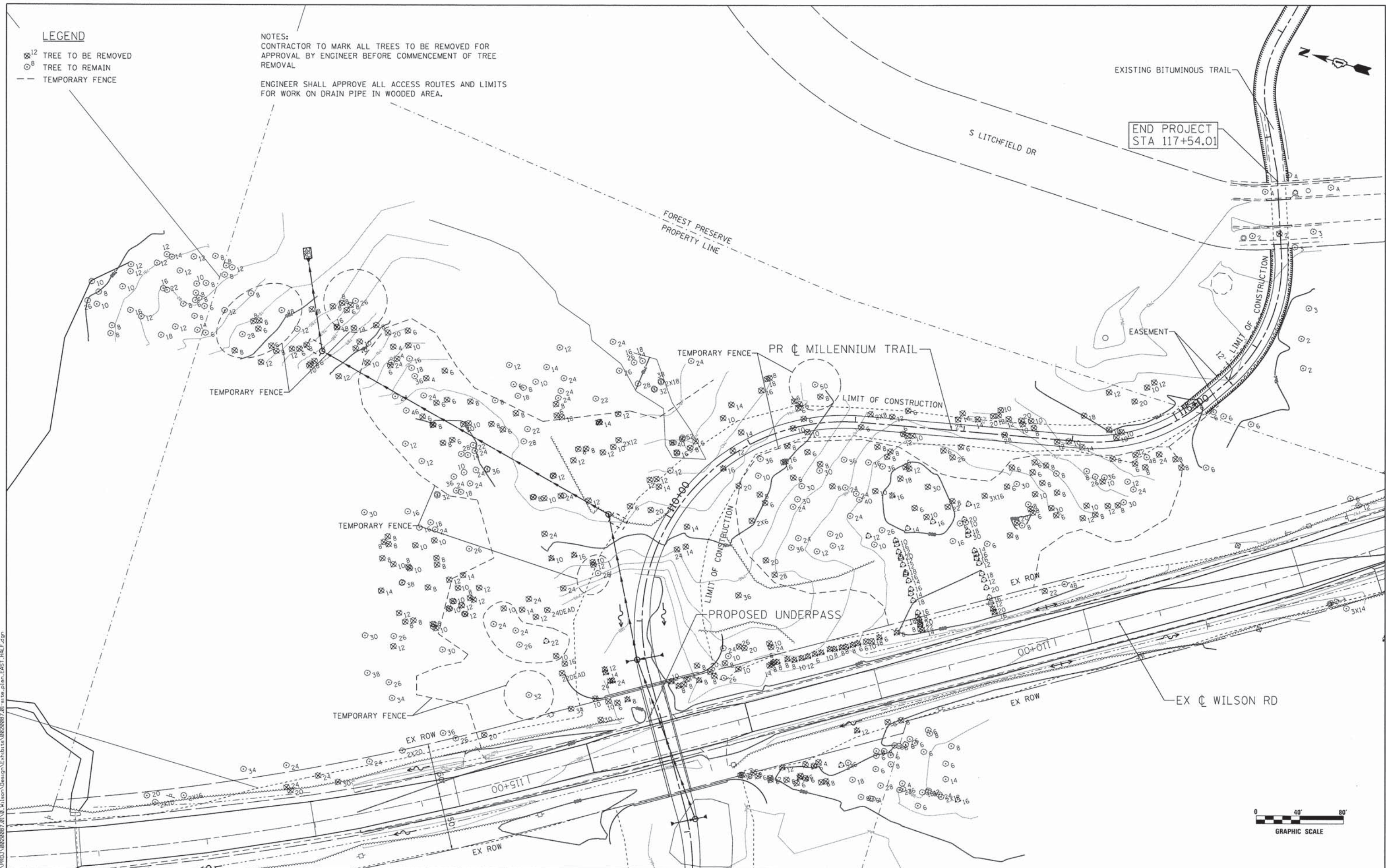
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178	14-F3000-02-BT	LAKE	165	41
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	

**LEGEND**

- ⊗<sup>12</sup> TREE TO BE REMOVED
- ⊙<sup>8</sup> TREE TO REMAIN
- - - TEMPORARY FENCE

NOTES:  
CONTRACTOR TO MARK ALL TREES TO BE REMOVED FOR APPROVAL BY ENGINEER BEFORE COMMENCEMENT OF TREE REMOVAL

ENGINEER SHALL APPROVE ALL ACCESS ROUTES AND LIMITS FOR WORK ON DRAIN PIPE IN WOODED AREA.



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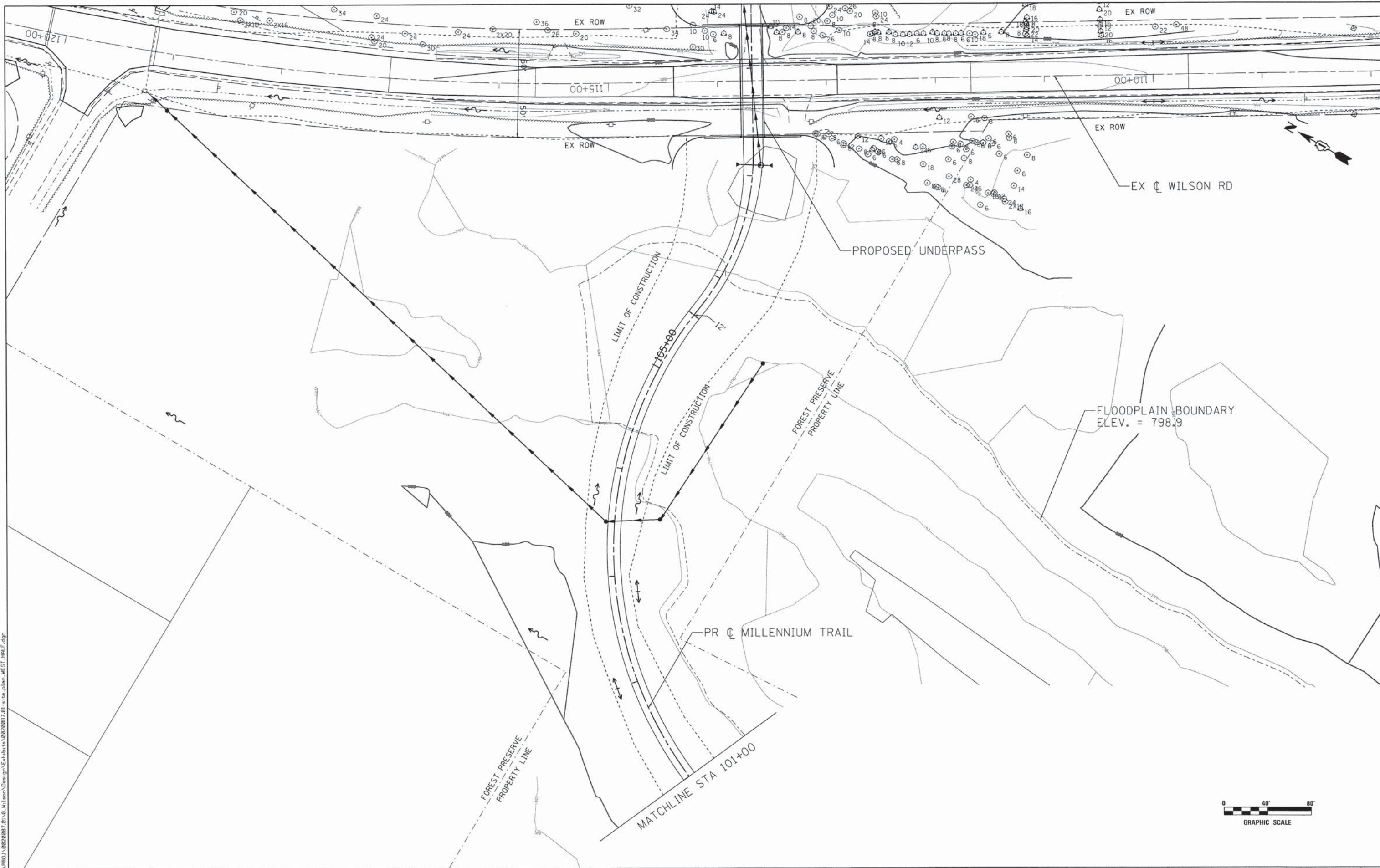
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SITE PLAN (EAST) - MILLENNIUM TRAIL  
WILSON ROAD UNDERPASS**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	42
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



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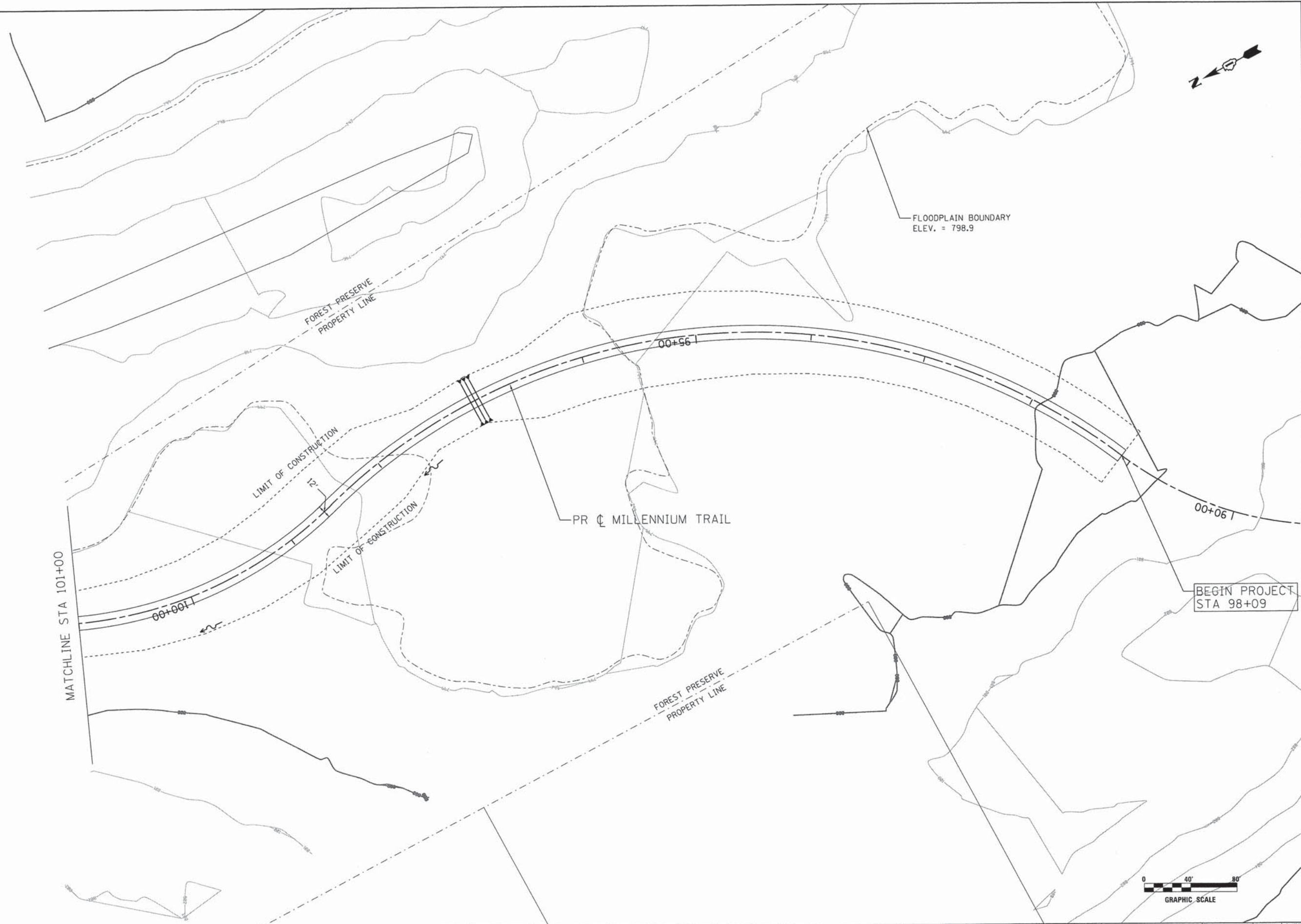
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SITE PLAN (WEST) - MILLENNIUM TRAIL    WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

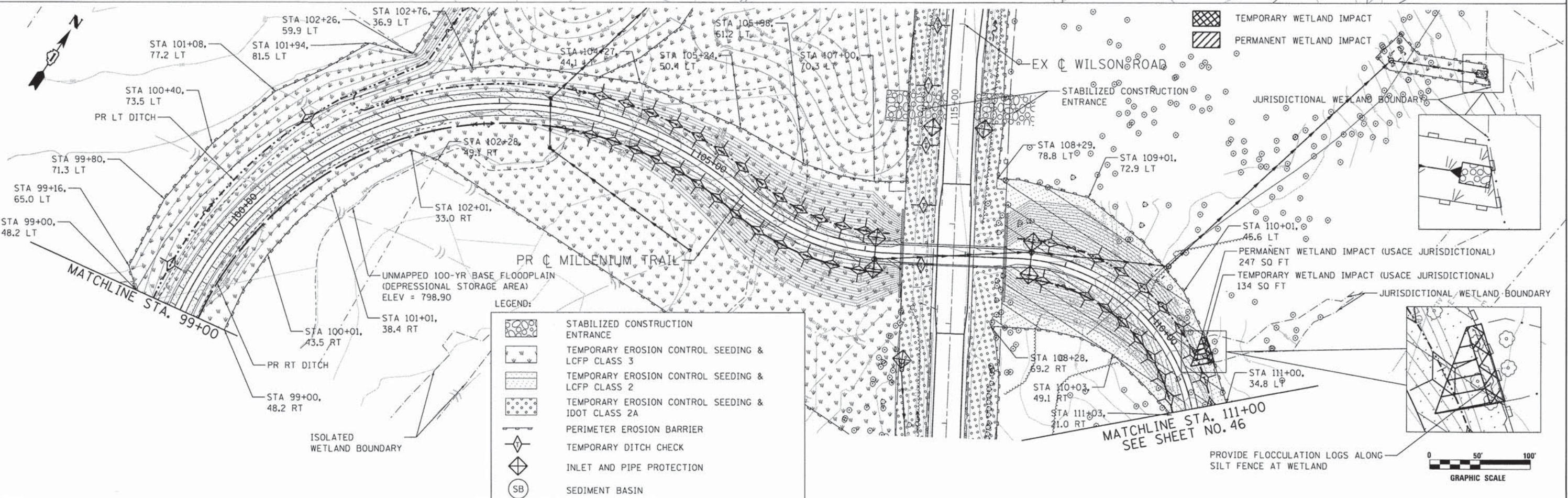
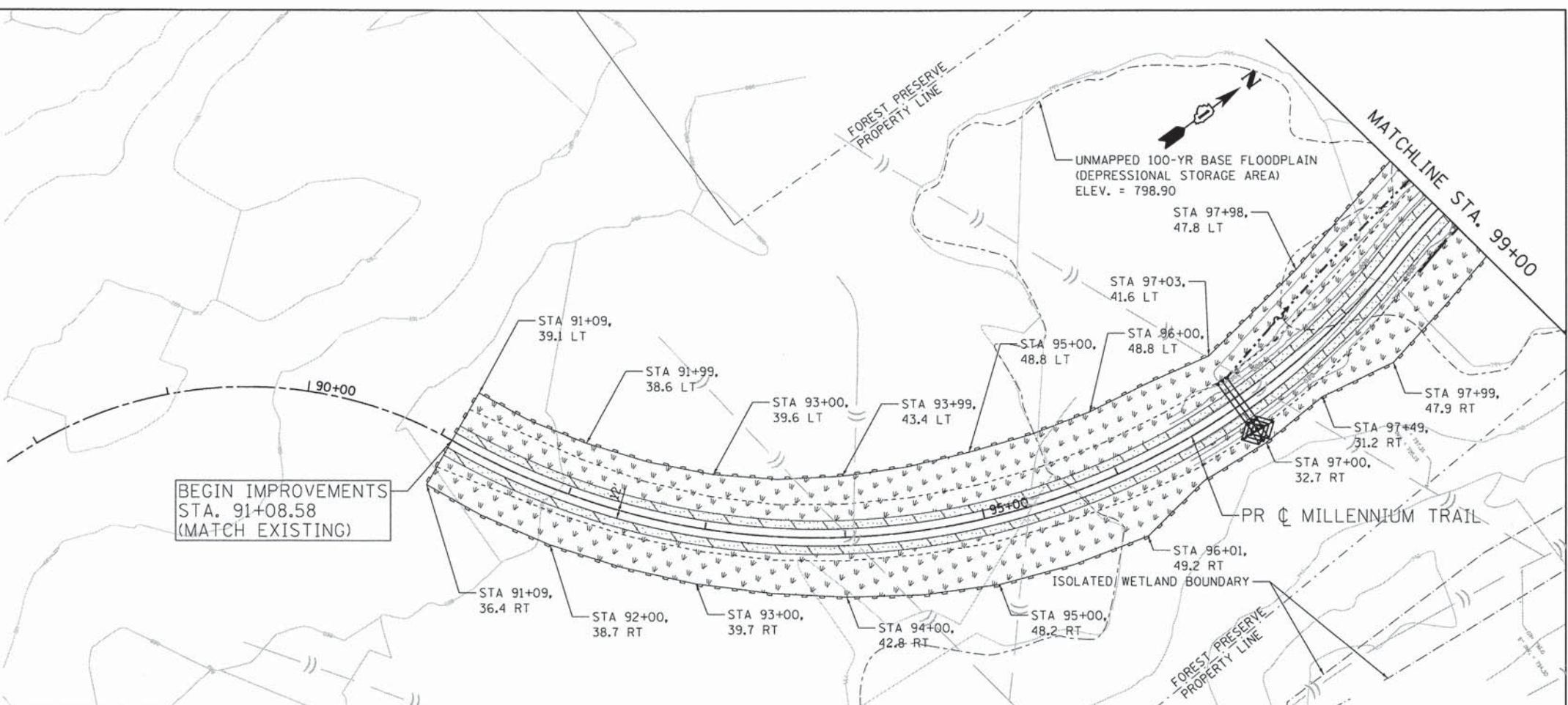
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 WILSON ROAD UNDERPASS**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	44
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TYPICAL CONSTRUCTION SEQUENCING

- 1.) INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
    - A.) SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
    - B.) SILT FENCE INSTALLATION
    - C.) CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
    - D.) STABILIZED CONSTRUCTION ENTRANCE
  - 2.) TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
  - 3.) CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS, ETC....)
  - 4.) STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
  - 5.) TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
  - 6.) INSTALL STORM SEWER AND ASSOCIATED INLET & OUTLET PROTECTION
  - 7.) PERMANENTLY STABILIZE DITCHES WITH SEED AND HEAVY DUTY EROSION CONTROL BLANKET
  - 8.) TEMPORARILY STABILIZE ALL AREAS THAT HAVE REACHED TEMPORARY GRADE
  - 9.) INSTALL ROADWAYS/BIKE PATHS
  - 10.) INSTALL STRUCTURES AND FINE GRADE
  - 11.) PERMANENTLY STABILIZE ALL AREAS
  - 12.) REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION
- SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 1/2" OR GREATER RAINFALL EVENT



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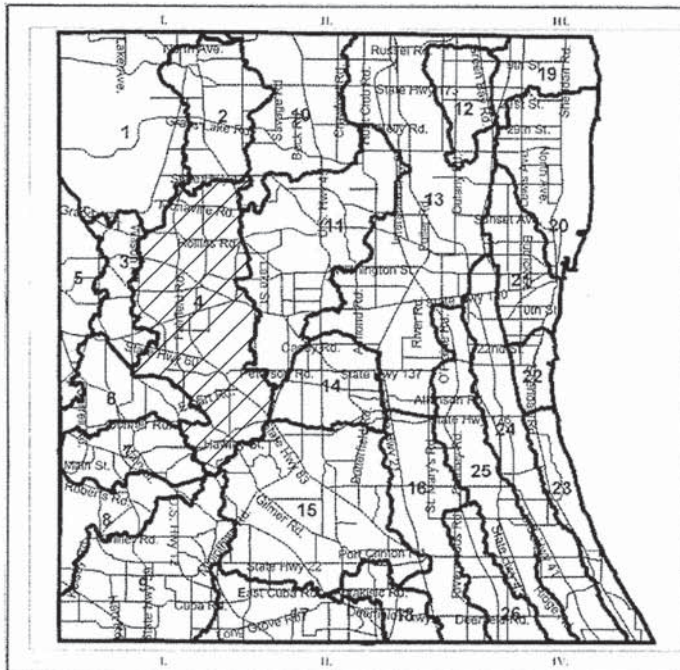
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 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING - MILLENNIUM TRAIL  
 WILSON ROAD UNDERPASS**

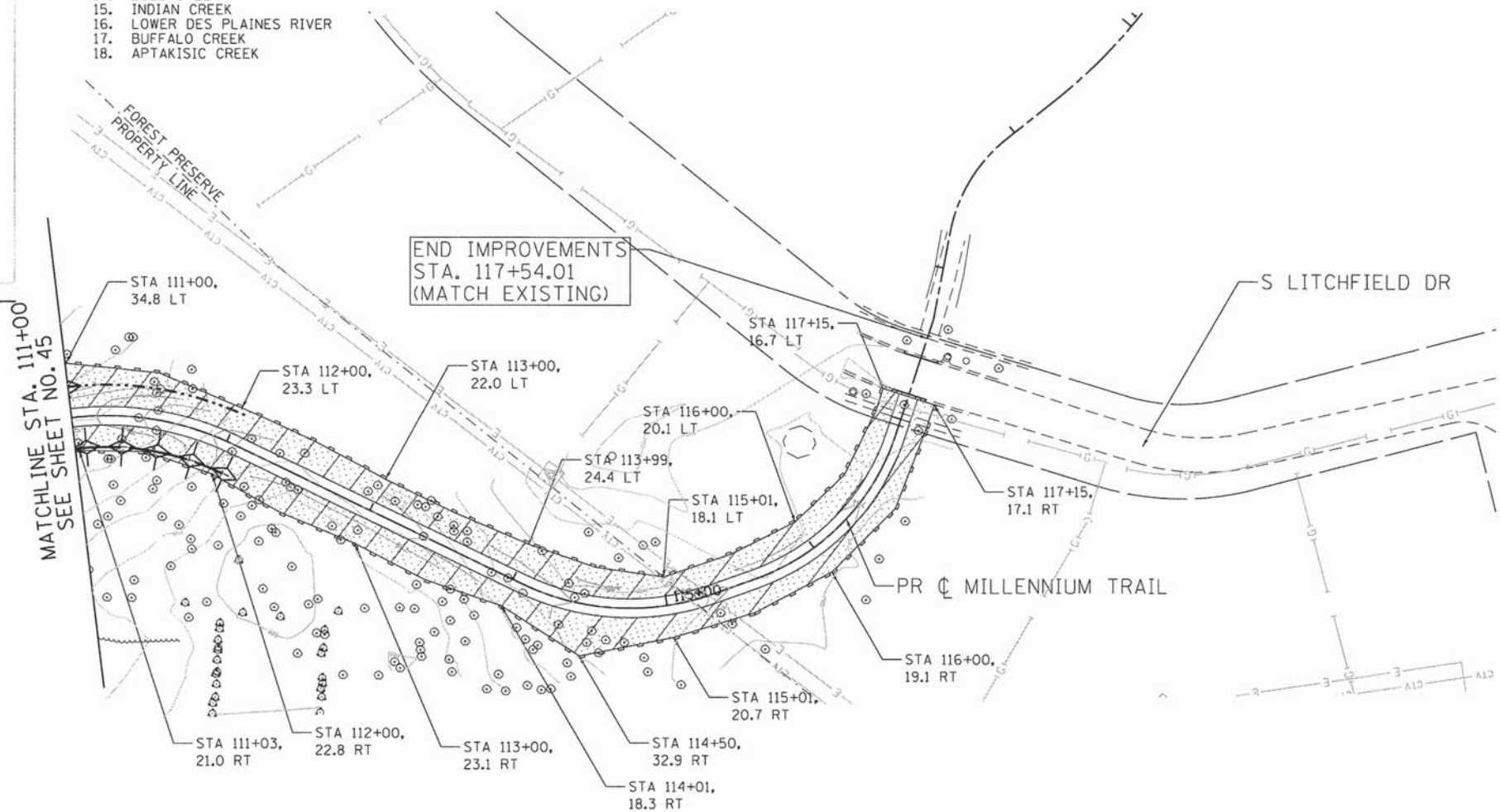
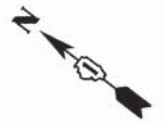
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F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 45
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DRAINAGE BASINS OF LAKE COUNTY

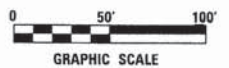


- I. FOX RIVER WATERSHED
  - 1. UPPER FOX RIVER
  - 2. SEQUOIT CREEK
  - 3. FISH LAKE DRAIN
  - 4. SQUAW CREEK
  - 5. LOWER FOX RIVER
  - 6. MUTTON CREEK
  - 7. SLOCUM LAKE DRAIN
  - 8. TOWER LAKE DRAIN
  - 9. FLINT CREEK
- II. DES PLAINES RIVER WATERSHED
  - 10. NORTH MILL CREEK
  - 11. MILL CREEK
  - 12. NEWPORT DRAINAGE DITCH
  - 13. UPPER DES PLAINES RIVER
  - 14. BULL CREEK
  - 15. INDIAN CREEK
  - 16. LOWER DES PLAINES RIVER
  - 17. BUFFALO CREEK
  - 18. APTAKISIC CREEK
- III. LAKE MICHIGAN WATERSHED
  - 19. KELLOGG CREEK
  - 20. DEAD RIVER
  - 21. WAUKEGAN RIVER
  - 22. PETTIBONE CREEK
  - 23. BLUFF/RAVINE
- IV. CHICAGO RIVER WATERSHED
  - 24. SKOKIE RIVER
  - 25. MIDDLE FORK
  - 26. WEST FORK



LEGEND:

- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 3
- TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 2
- TEMPORARY EROSION CONTROL SEEDING & IDOT CLASS 2A
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- SEDIMENT BASIN



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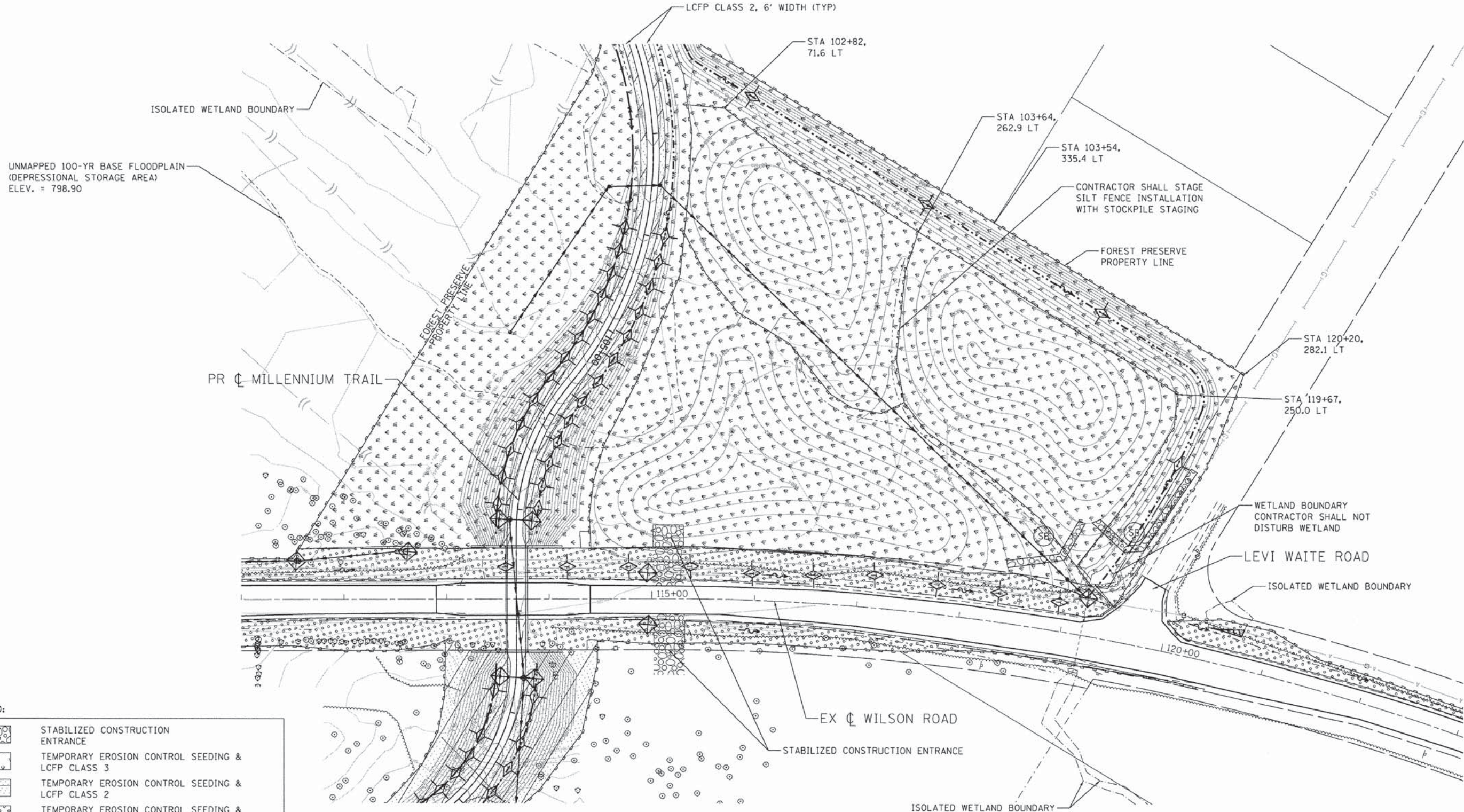
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	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING - MILLENNIUM TRAIL  
 WILSON ROAD UNDERPASS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	46
CONTRACT NO. 63808			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

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



**LEGEND:**

	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 3
	TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 2
	TEMPORARY EROSION CONTROL SEEDING & IDOT CLASS 2A
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN



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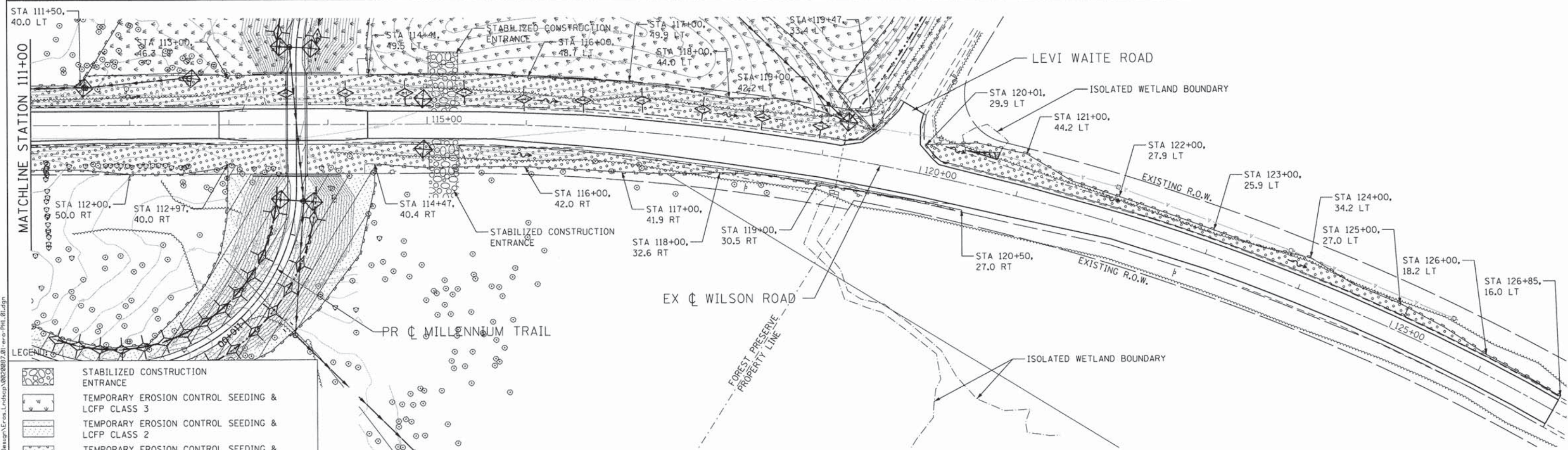
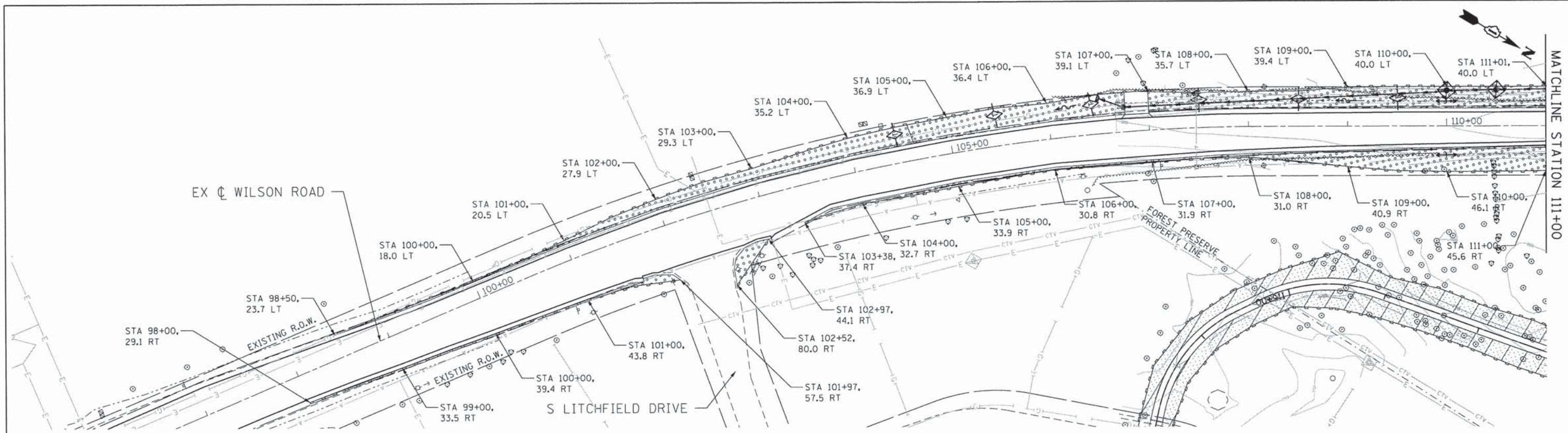
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	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING - STOCKPILE  
 WILSON ROAD UNDERPASS**

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

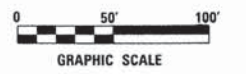
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	47
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND

	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 3
	TEMPORARY EROSION CONTROL SEEDING & LCFP CLASS 2
	TEMPORARY EROSION CONTROL SEEDING & IDOT CLASS 2A
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	SEDIMENT BASIN

NOTE: PROVIDE TEMPORARY EROSION CONTROL SEEDING STABILIZATION AFTER REMOVAL OF TEMPORARY PAVEMENT.



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	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND LANDSCAPING - WILSON ROAD  
WILSON ROAD UNDERPASS**

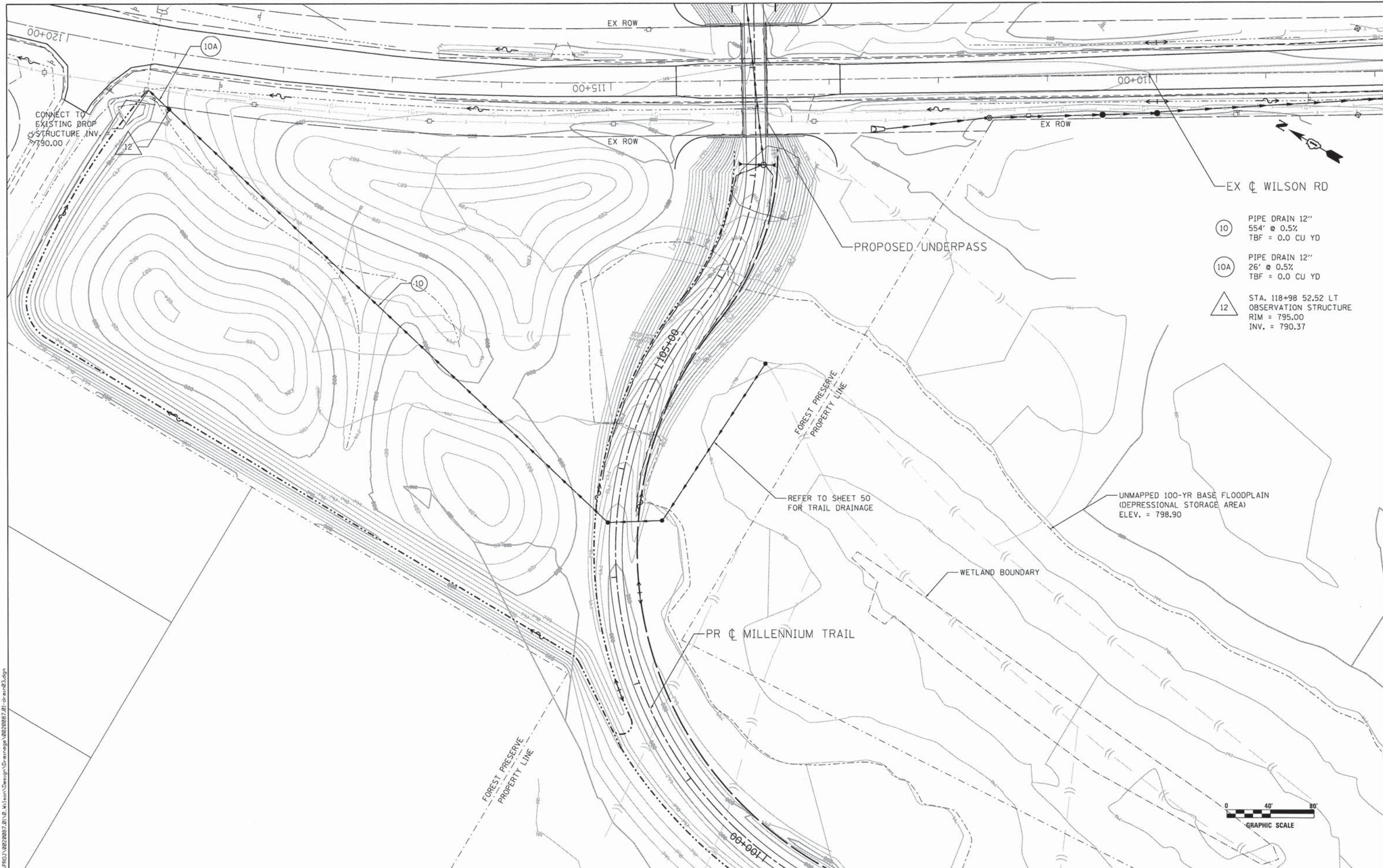
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CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

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- 10 PIPE DRAIN 12"  
 554' @ 0.5%  
 TBF = 0.0 CU YD
- 10A PIPE DRAIN 12"  
 26' @ 0.5%  
 TBF = 0.0 CU YD
- 12 STA. 118+98 52.52 LT  
 OBSERVATION STRUCTURE  
 RIM = 795.00  
 INV. = 790.37



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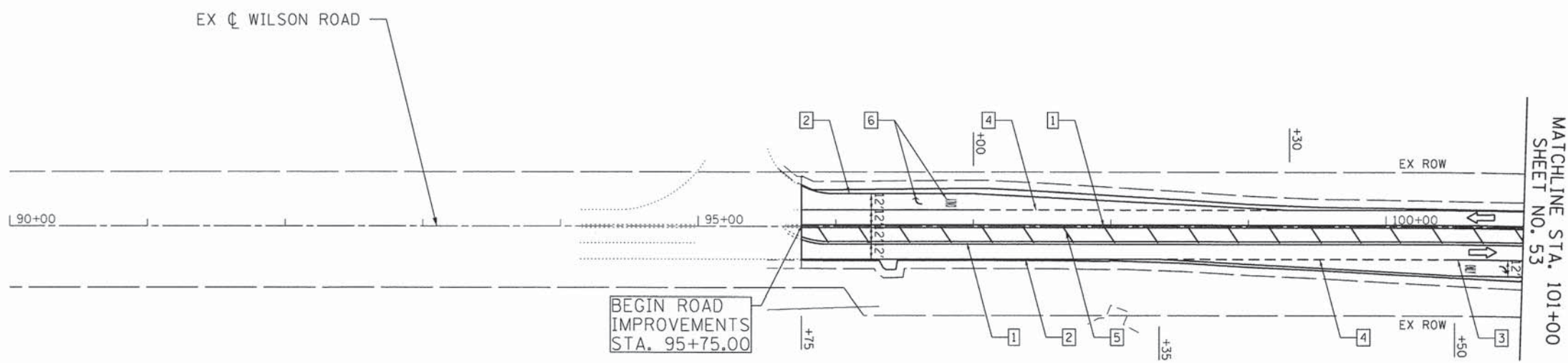
**CG** Ciorba Group, Inc.  
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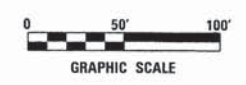
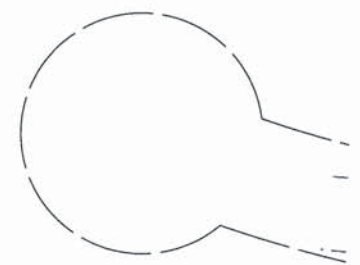
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE PLAN - MILLENNIUM TRAIL        WILSON ROAD UNDERPASS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		178	14-F3000-02-BT	LAKE	165	51
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 63808	

FED. ROAD DIST. NO. -	ILLINOIS FED. AID PROJECT
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MATCHLINE STA. 101+00  
SHEET NO. 53



**LEGEND:**

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 5" (WHITE SOLID LINE)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LINE - 2' DASH, 6' SKIP)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) (30' C-C)
- 6 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)

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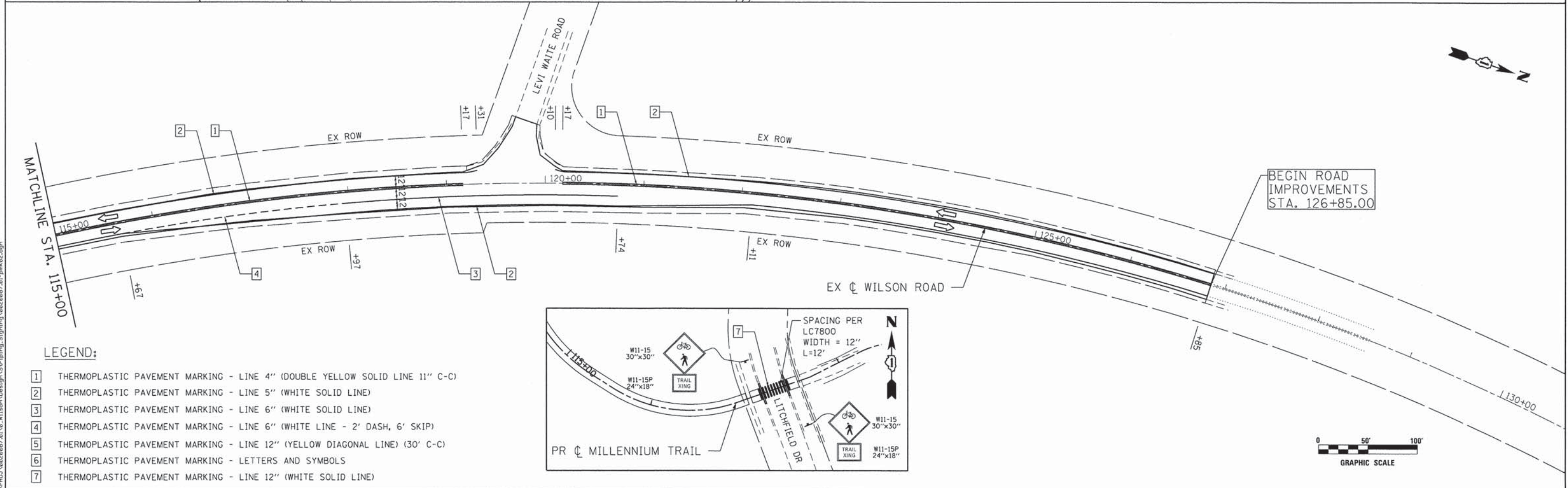
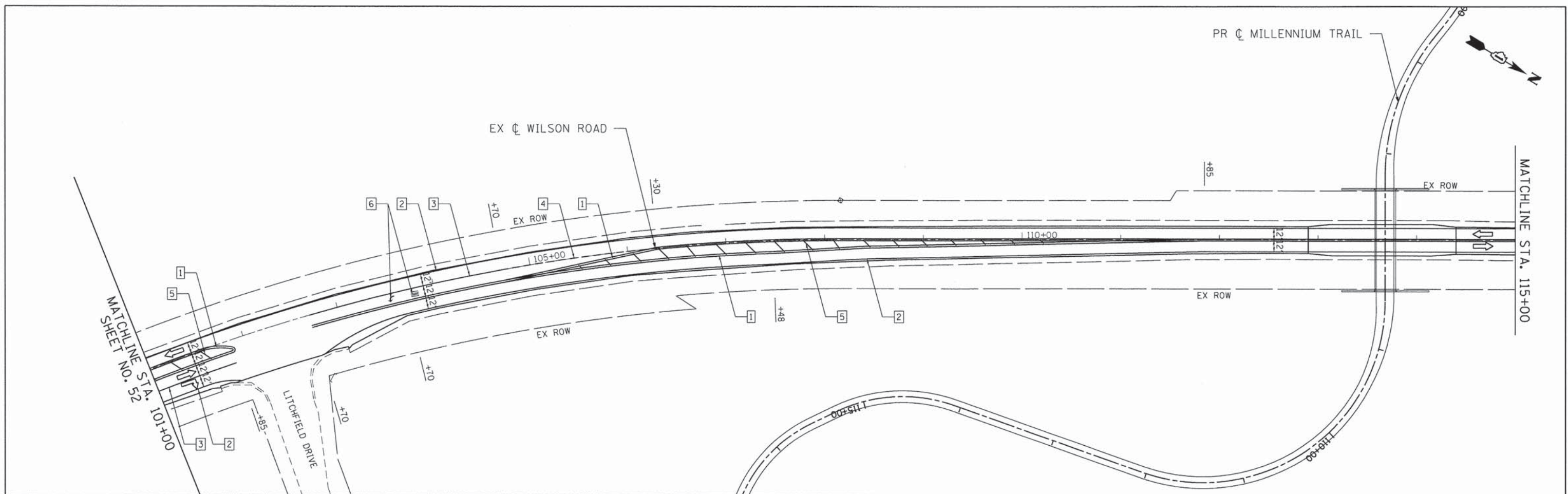
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

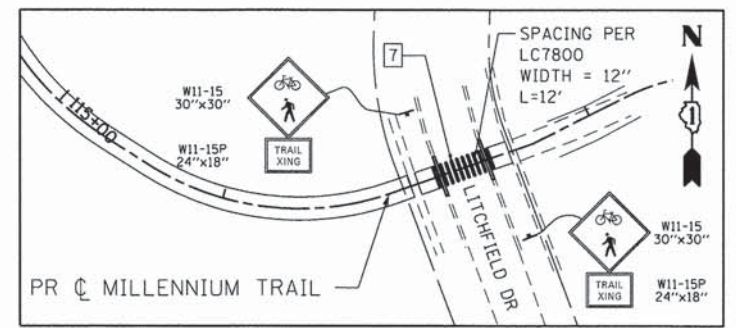
<b>PAVEMENT MARKINGS WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	



**LEGEND:**

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE 11" C-C)
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 5" (WHITE SOLID LINE)
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LINE - 2' DASH, 6' SKIP)
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) (30' C-C)
- 6 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)



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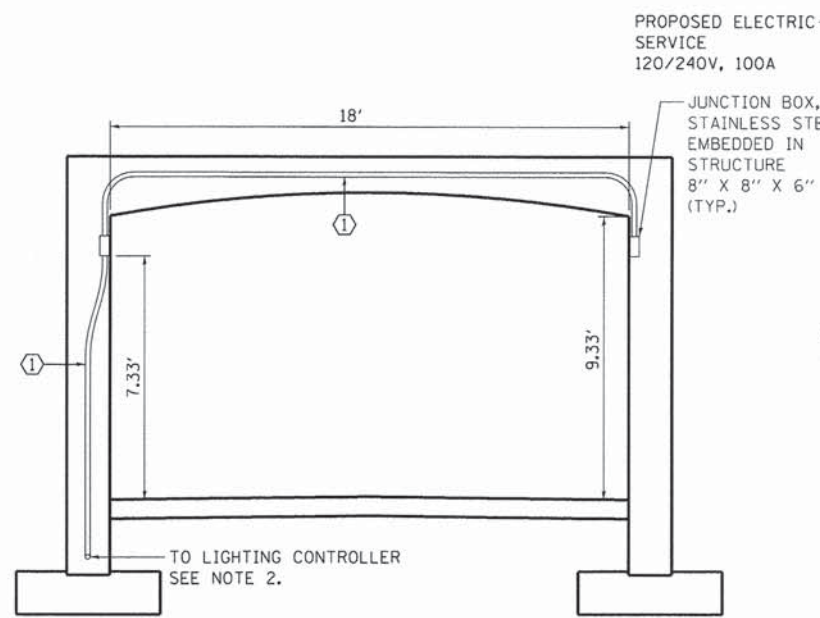
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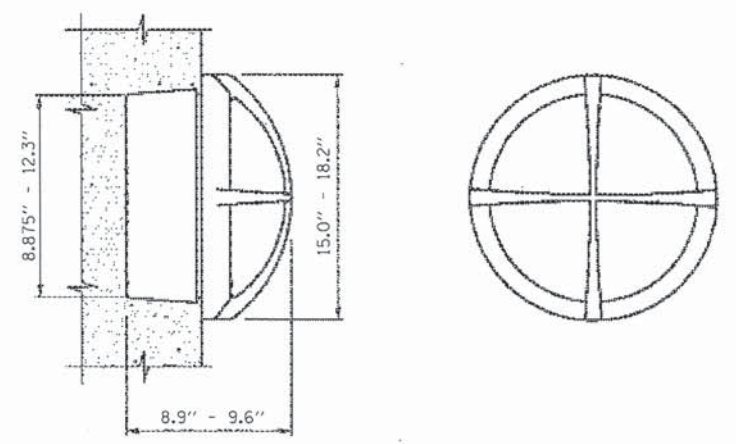
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKINGS WILSON ROAD UNDERPASS</b>			
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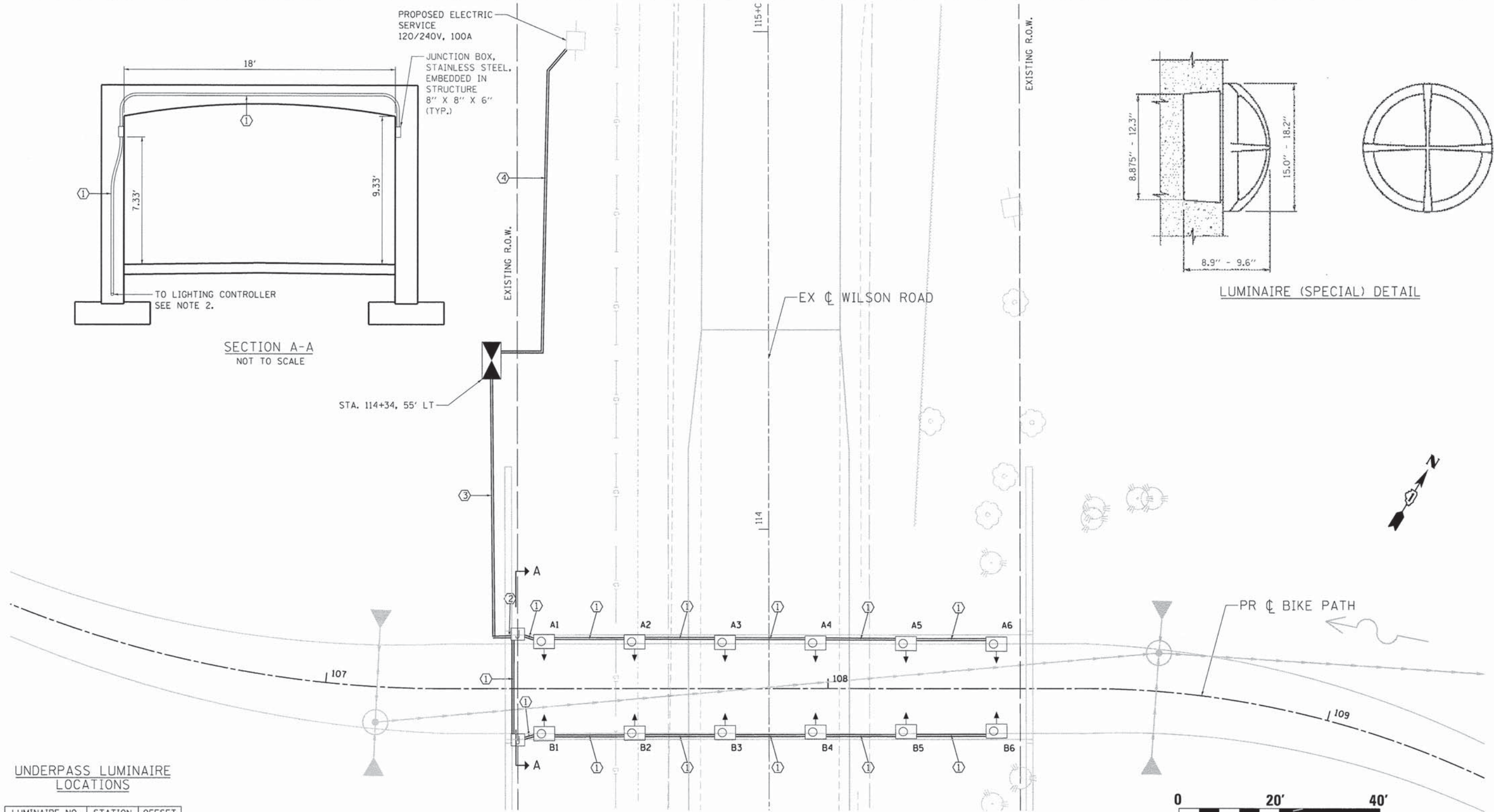
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63808				



SECTION A-A  
NOT TO SCALE



LUMINAIRE (SPECIAL) DETAIL



UNDERPASS LUMINAIRE LOCATIONS

LUMINAIRE NO.	STATION	OFFSET
A1	107+44	9' LT
A2	107+62	9' LT
A3	107+80	9' LT
A4	107+98	9' LT
A5	108+16	9' LT
A6	108+34	9' LT
B1	107+44	9' RT
B2	107+62	9' RT
B3	107+80	9' RT
B4	107+98	9' RT
B5	108+16	9' RT
B6	108+34	9' RT

WIRE AND CONDUIT TABLE

TAG	WIRE	CONDUIT
①	2-1/C NO. 10 AND 1/C NO. 10 GROUND	CONDUIT EMBEDDED IN STRUCTURE, 1\"/>
②	3-1/C NO. 10 AND 1/C NO. 10 GROUND	CONDUIT EMBEDDED IN STRUCTURE, 1\"/>
③	3-1/C NO. 10 AND 1/C NO. 10 GROUND	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1\"/>
④	3-1/C NO. 2	UNDERGROUND CONDUIT, PVC COATED GALVANIZED STEEL, 2 1/2\"/>

LEGEND

- LUMINAIRE (SPECIAL) - UNDERPASS LUMINAIRE, WALL MOUNTED, 70 WATT METAL HALIDE
- LIGHTING CONTROLLER, SPECIAL
- EXISTING UTILITY POLE
- RIGID STEEL CONDUIT, TYPE AND SIZE AS NOTED
- JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 8\"/>

- NOTES**
- ALL LUMINAIRES ARE MOUNTED 7'-4" FROM THE BOTTOM OF THE LUMINAIRE TO THE FINISHED SURFACE OF THE BIKE PATH.
  - CONDUIT SHALL EXIT THE END OF THE UNDERPASS WALL 6" ABOVE THE SPREAD FOOTING. THE CONDUIT SHALL BE ROUTED TO ACHIEVE A 30" DEPTH BEYOND THE UNDERPASS FOUNDATION.

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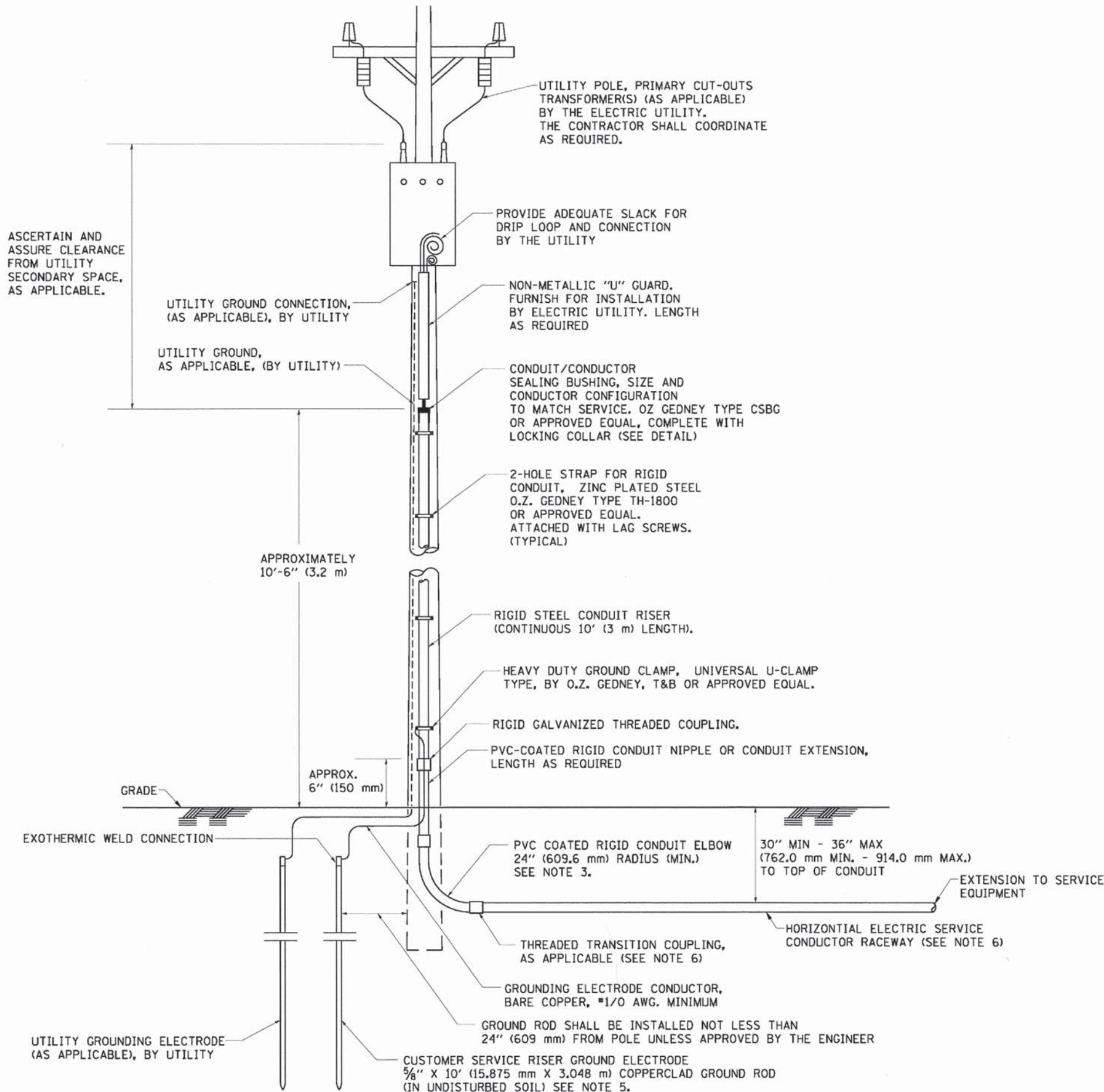
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	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN  
WILSON ROAD UNDERPASS**

SCALE: 1" = 10' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	

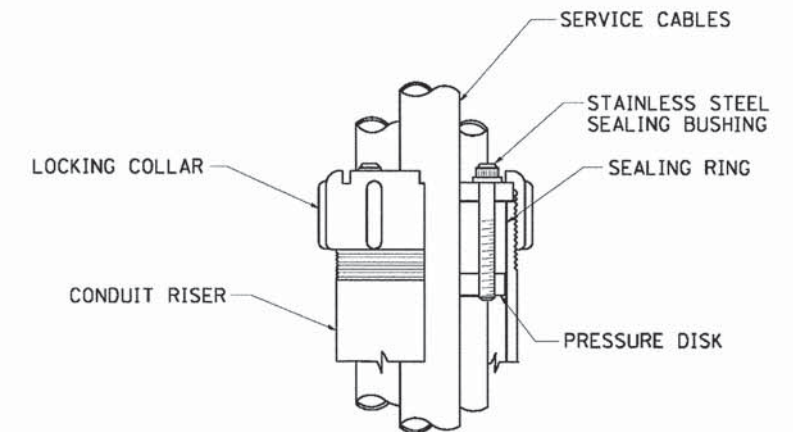


**APPLICATION**

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

**NOTES**

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

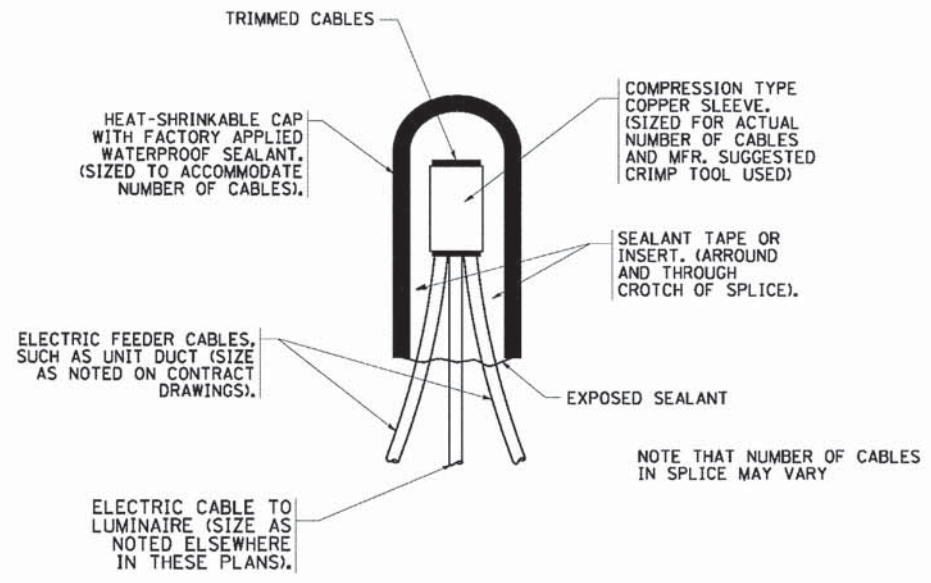


**SEALING BUSHING DETAIL**

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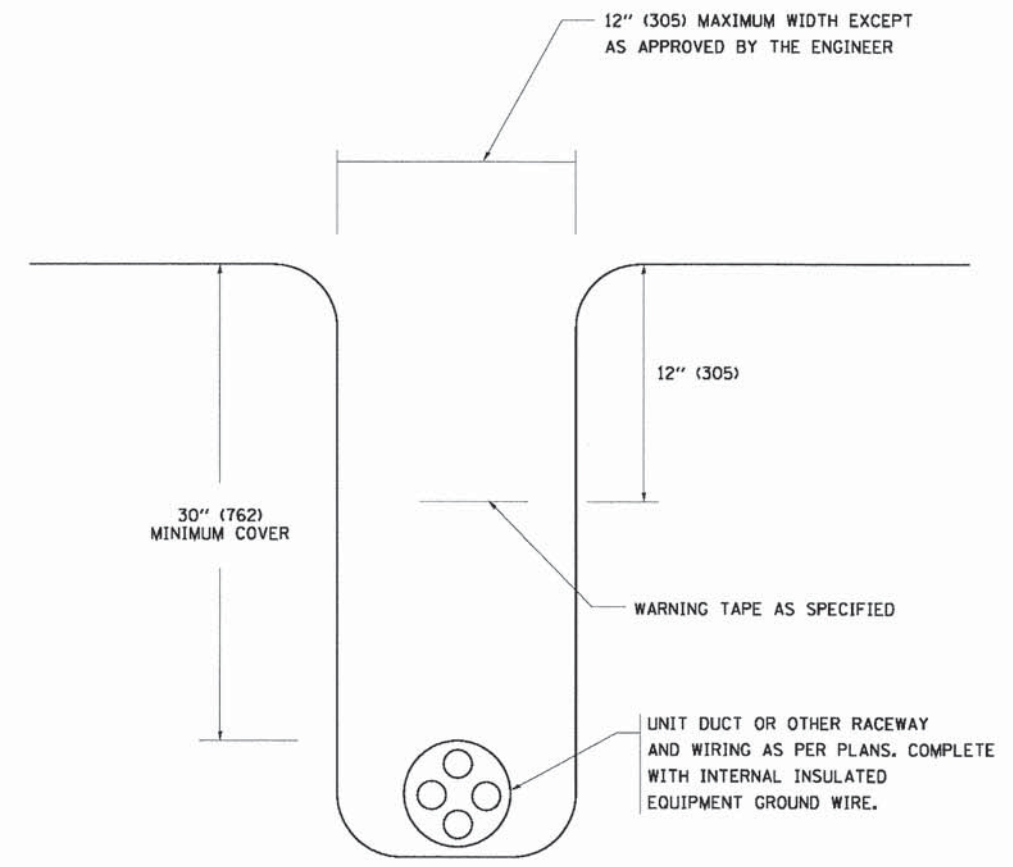
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	55
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

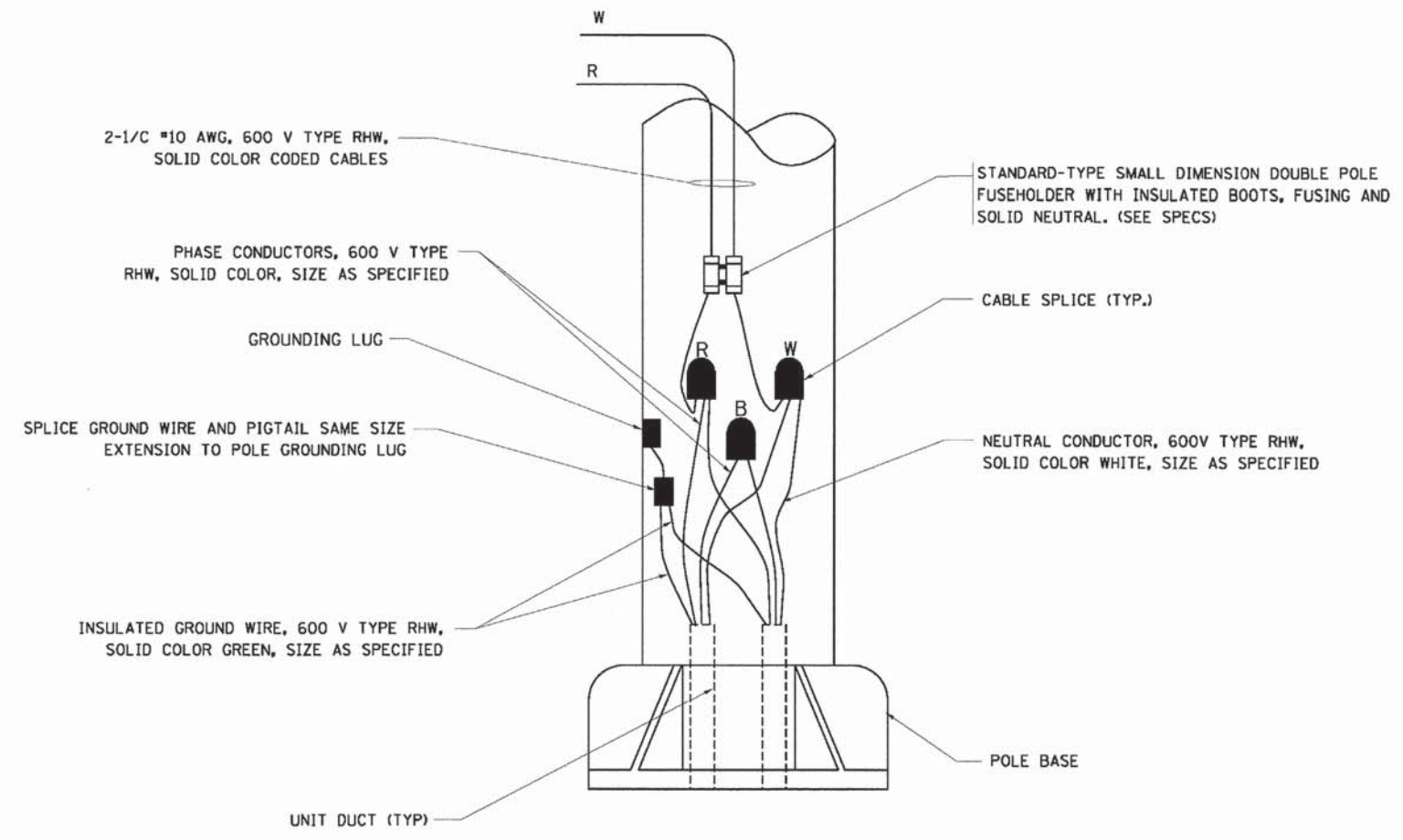


**TYPICAL SPLICE DETAIL**  
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



**TYPICAL WIRING IN TRENCH DETAIL**  
N.T.S.



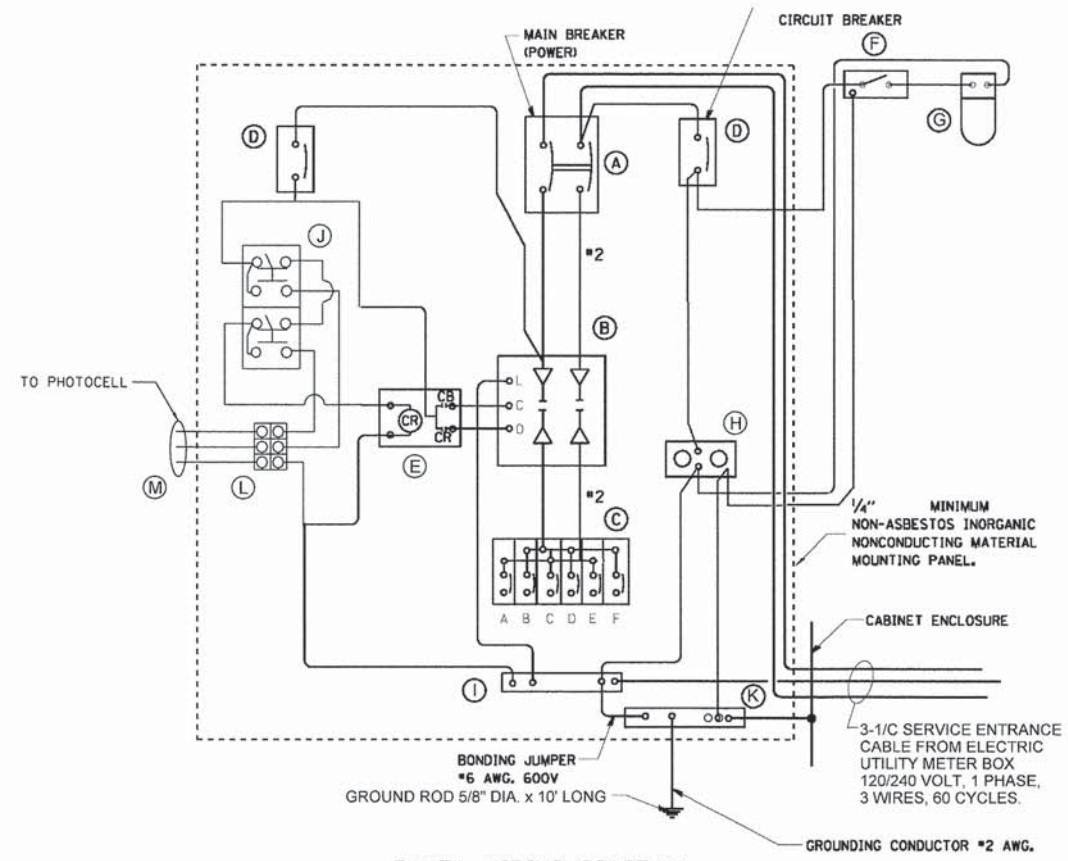
**POLE WIRING DETAIL**  
N.T.S.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	56
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				





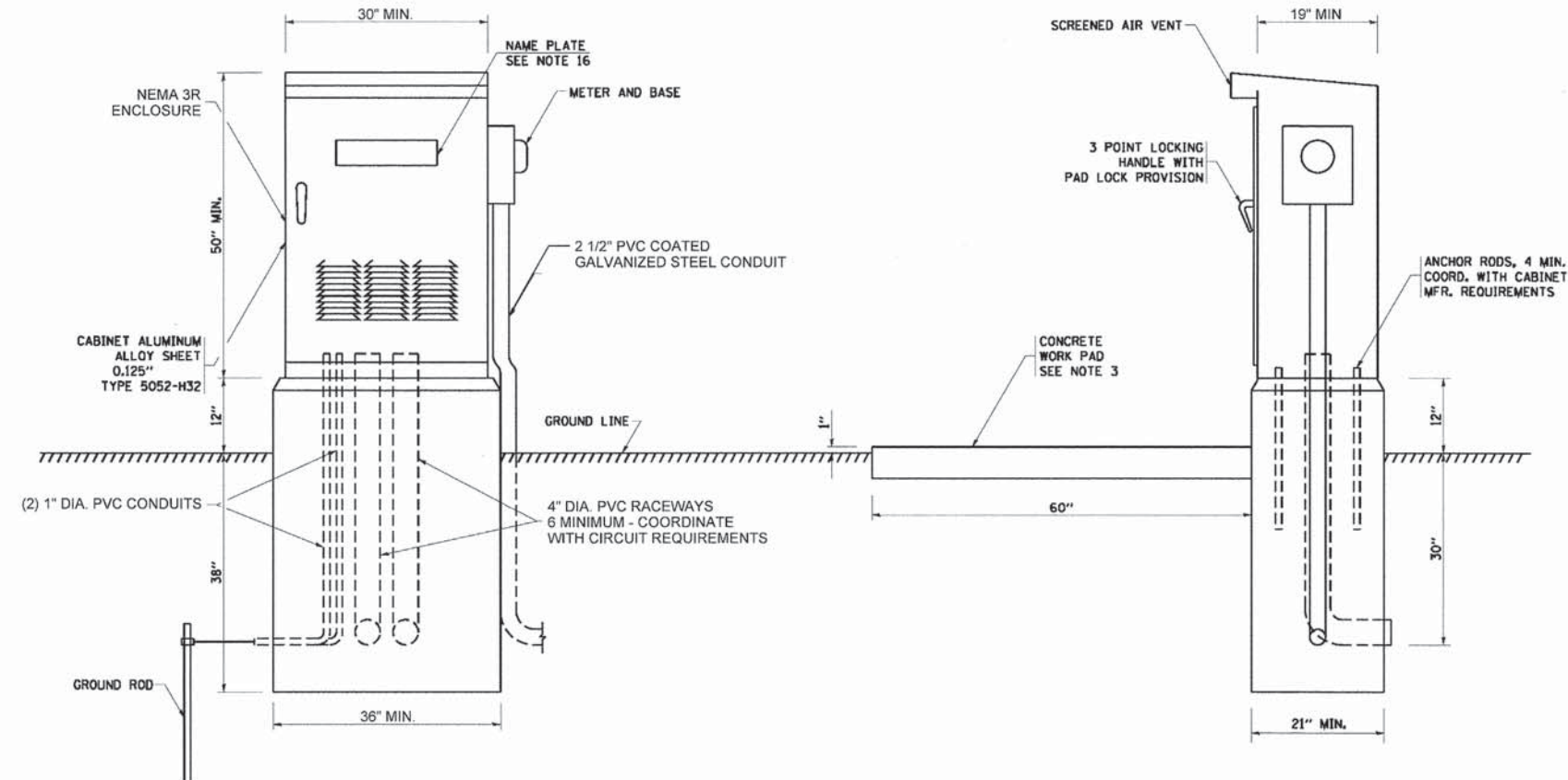
**PANEL WIRING DIAGRAM**

**PANEL EQUIPMENT  
BILL OF MATERIAL**

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	6	CIRCUIT BREAKERS, 1 POLE, 100 AMP. FRAME, 30 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 VOLTS.
D	2	CONTROL CIRCUIT -CIRCUIT BREAKER. 1 POLE, 240 VOLT, 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5,000 AMP. AT 240 VOLTS.
E	1	RELAY, DPDT, 240 VOLT.
F	1	SPST 20 AMP. SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
G	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
H	1	20 AMP., 120 VOLT., DUPLEX RECEPTACLE, GFCI.
I	1	COPPER GROUND BUS 1/4" x 1" x 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
J	1	HAND-OFF-AUTOMATIC SWITCH, SQUARE D 9001 KYK-111 OR EQUIVALENT.
K	1	COPPER GROUND BUS 1/4" x 1" x 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	PHOTOCELL TERMINAL BLOCK
M	1	CABINET MOUNT, BUTTON TYPE PHOTOCELL.

**NOTES:**

- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MANUFACTURER.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" x 60" x 4" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAREST TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED BL = BLUE W = WHITE  
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" x 16" STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED WITH "LAKE COUNTY FOREST PRESERVES DISTRICT LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.



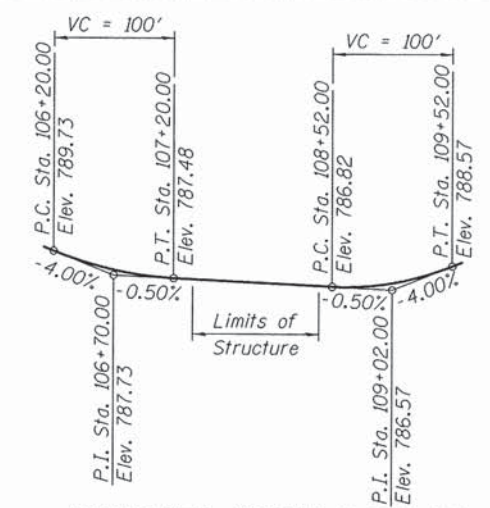
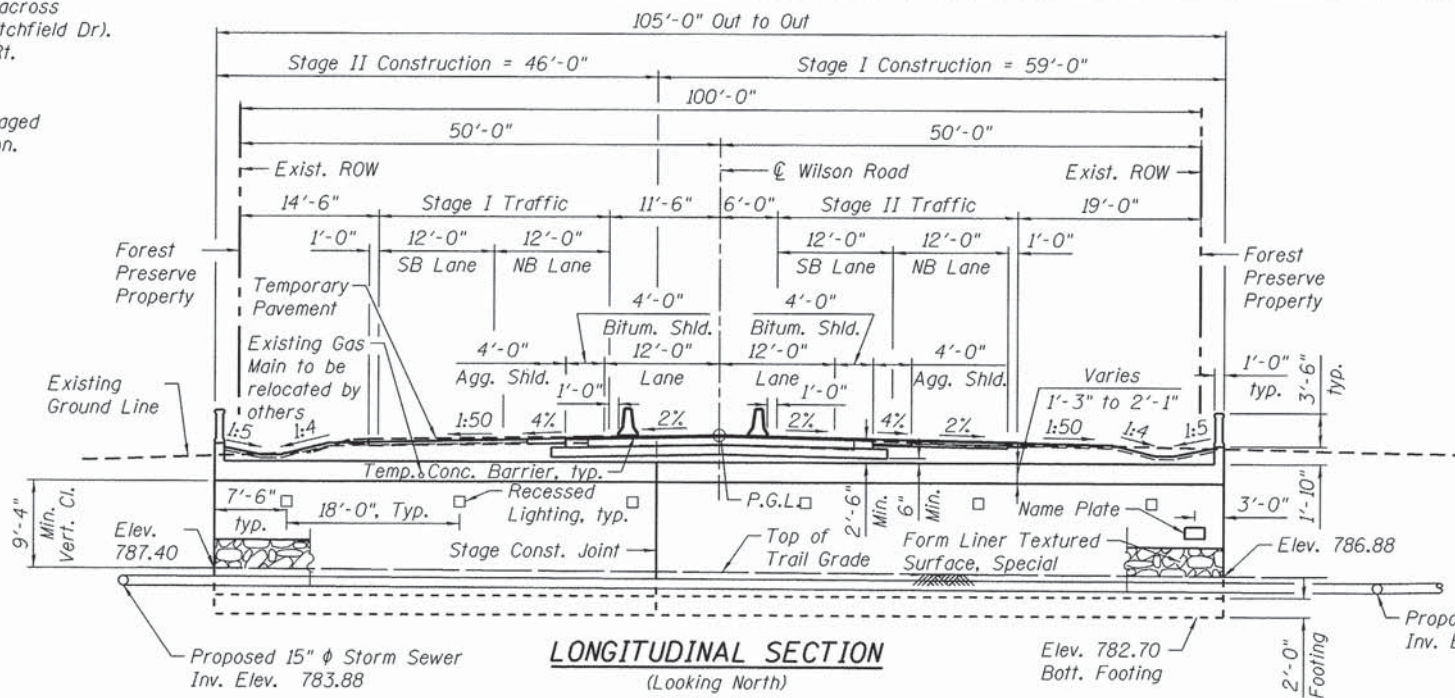
FILE NAME: s:\p\p\0220087\_21\0 - Wilson\Design\Lighting\0220087\_21-Wilson-Lighting.dgn

Benchmark: Arrow Bolt on Fire Hydrant across from and south of #448 (Litchfield Dr). Sta. 117+46. Offset 15.50' Rt. Elev. 795.51

Maintenance of Traffic: Traffic will be staged during construction.

Existing Structure: None.

Note: Precast alternate is not allowed.



**CURVE DATA**  
**MILLENNIUM TRAIL**

$\Delta = 39^\circ 38' 59''$ (LT.)	$\Delta = 109^\circ 45' 44''$ (RT.)
$D = 24^\circ 54' 40''$	$D = 30^\circ 58' 14''$
$T = 82.92'$	$T = 263.04'$
$L = 159.16'$	$L = 354.41'$
$E = 14.49'$	$E = 136.59'$
$R = 230.00'$	$R = 185.00'$
P.C. = Sta. 105+65.09	P.C. = Sta. 108+51.20
P.T. = Sta. 107+24.26	P.T. = Sta. 112+05.60
P.I. = Sta. 106+48.01	P.I. = Sta. 111+14.24

**WILSON ROAD**  
BUILT 201\_ BY  
LAKE COUNTY FOREST  
PRESERVE DISTRICT  
SEC 14-F3000-02-BT  
F.A.U. 178 STA. 113+68.00  
STR. NO. 049-N009 LOADING HL93

**NAME PLATE**  
See Std. 515001

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{d1}$ ) = 0.087g  
Design Spectral Acceleration at 0.2 sec. ( $S_{d5}$ ) = 0.163g  
Soil Site Class = D

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2012 Interims

**DESIGN STRESSES**

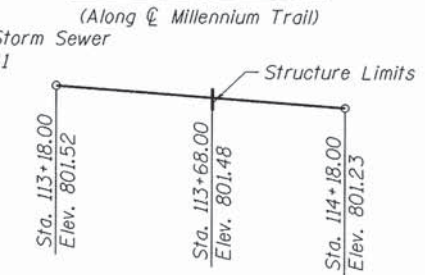
**FIELD UNITS**

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

**LOADING HL-93**

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

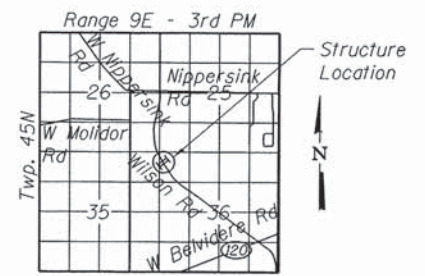
**PROPOSED PROFILE GRADE TRAIL UNDERPASS**  
(Along  $\odot$  Millennium Trail)



**EXISTING PROFILE OF WILSON ROAD**  
(Along  $\odot$  Wilson Road)



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



\* Slope transitions from 1:2 (V:H) at the wingwalls to 1:3 (V:H). See cross sections for exact location.

\* 1:3 (V:H)

\* 1:2 (V:H)

\* 1:2 (V:H)

\* 1:3 (V:H)

\* 1:3 (V:H)

\* 1:2 (V:H)

\* 1:2 (V:H)

\* 1:3 (V:H)



**PLAN**

$\odot$  Millennium Trail Sta. 107+88.26  
 $\odot$  Wilson Road Sta. 113+68.00, Elev. 801.48

NA:PROJ\_00220087\_01\_0\_Wilson\Design\Structure\CAD\00220087\_01\_01.dwg



USER NAME = rdenley	DESIGNED - SMY	REVISED -
PLOT SCALE = 10.00000' / in.	CHECKED - BWS	REVISED -
PLOT DATE = 3/21/2014	DRAWN - SRG	REVISED -
	CHECKED - BWS	REVISED -

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

SHEET NO. S-1 OF S-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	58
CONTRACT NO. 63808			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

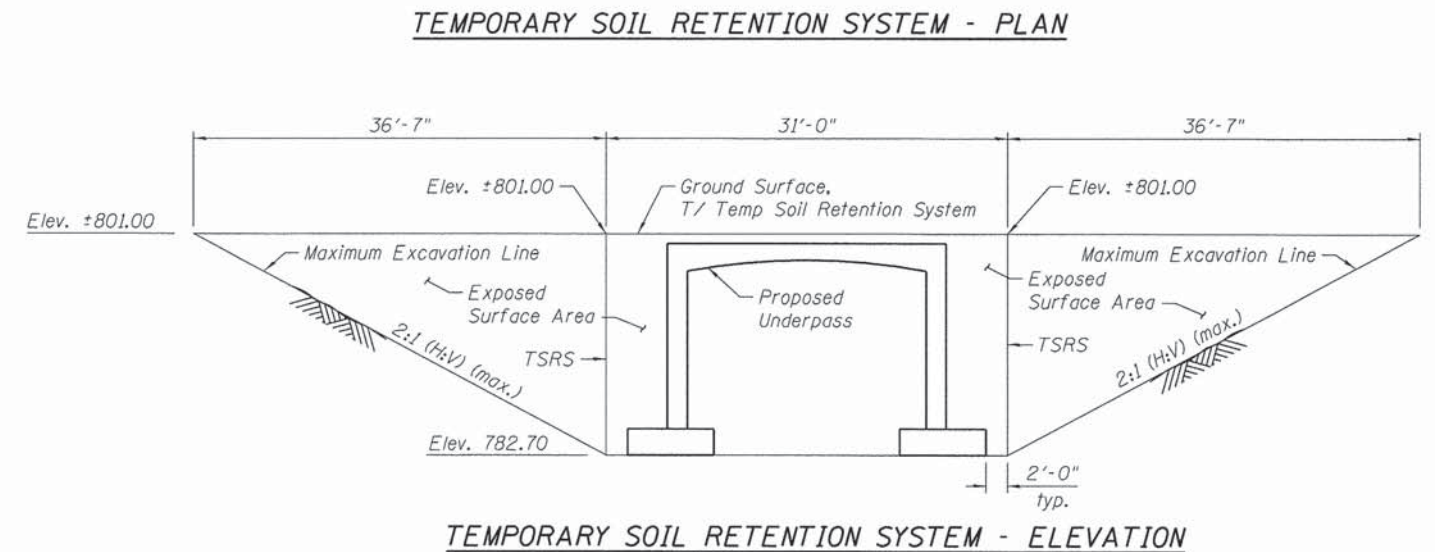
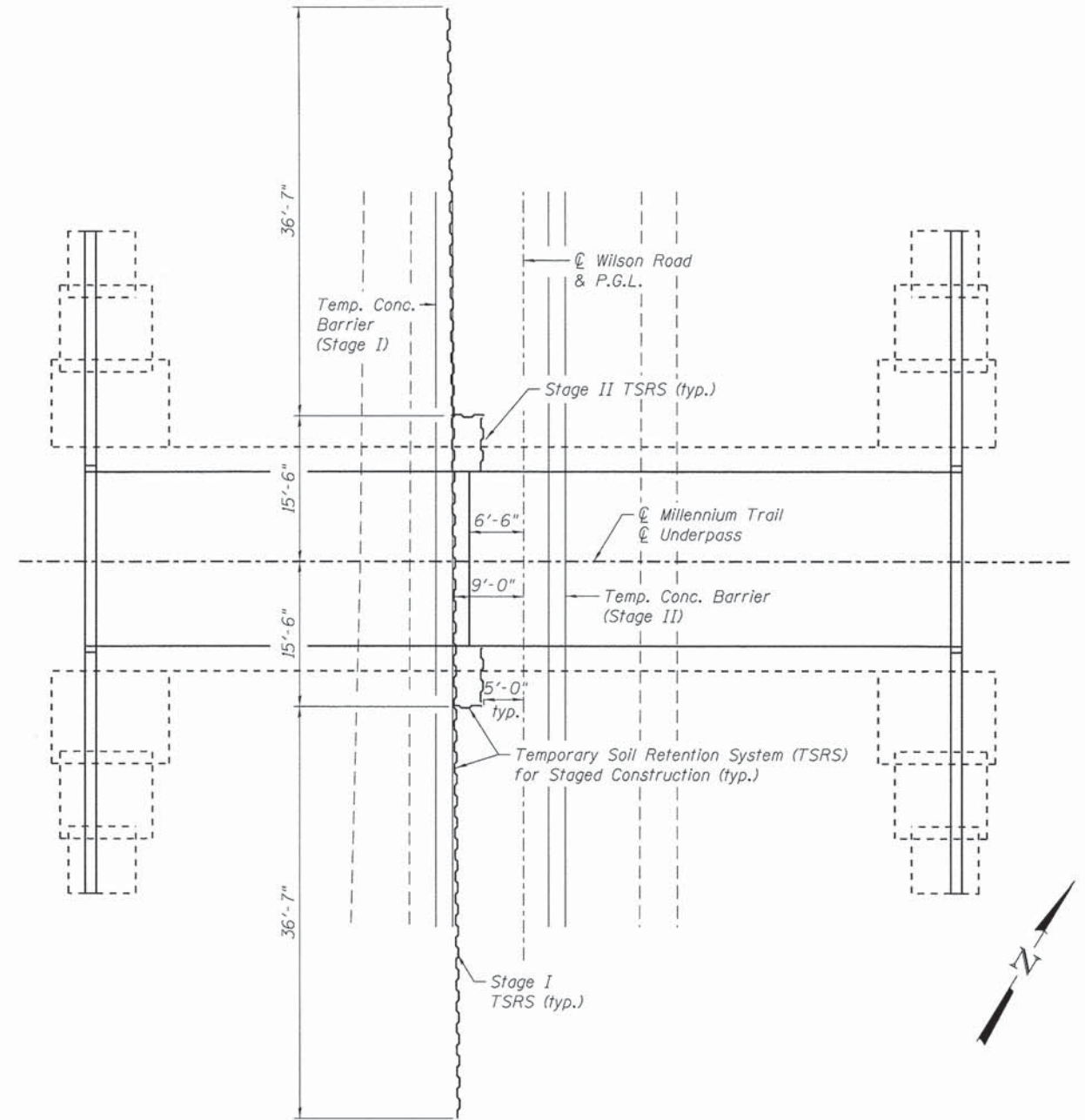
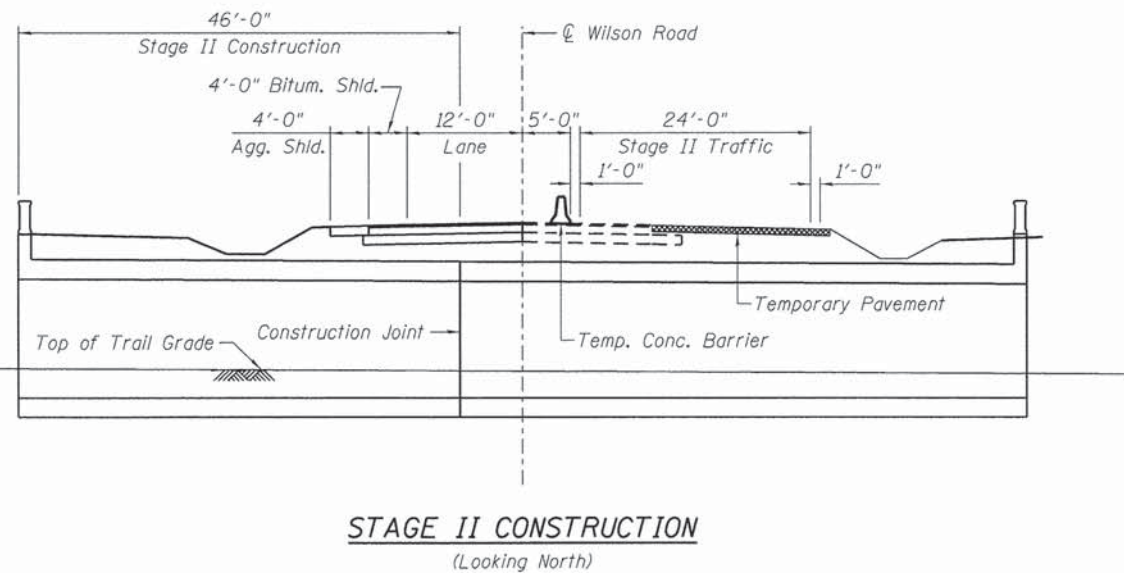
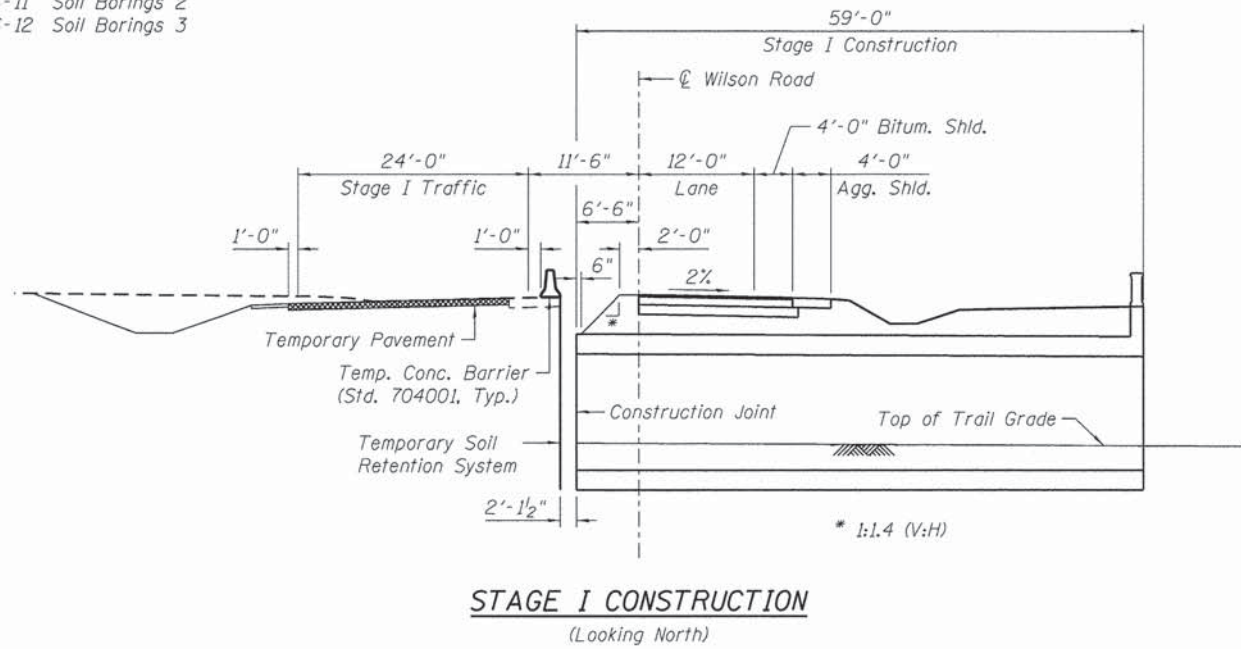
1. Reinforcement bars designated (E) shall be epoxy coated.
2. A cantilevered sheet piling does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

**INDEX OF SHEETS**

- S-1 General Plan & Longitudinal Section
- S-2 General Notes, Total Bill of Materials & Staging Details
- S-3 Underpass Plan and Elevation
- S-4 Underpass Details
- S-5 West Wingwalls Details
- S-6 East Wingwalls Details
- S-7 Wingwall Details
- S-8 Architectural Details
- S-9 Bar Splicer Assembly and Mechanical Splicer Details
- S-10 Soil Borings 1
- S-11 Soil Borings 2
- S-12 Soil Borings 3

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	4,424
Geotechnical Fabric For Ground Stabilization	Sq. Yd.	223
Stone Riprap, Class A2	Ton	415
Aggregate Base Course, Type B	Cu. Yd.	75
Area Reflective Crack Control Treatment	Sq. Yd.	2,415
Concrete Structures	Cu. Yd.	563.0
Rubbed Finish	Sq. Ft.	4,361
Reinforcement Bars, Epoxy Coated	Pound	74,460
Bar Splicers	Each	123
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	413
Structure Excavation (Special)	Cu. Yd.	4,967
Ornamental Railing	Foot	127
Staining Concrete Structures	Sq. Yd.	164
Form Liner Textured Surface, Special	Sq. Ft.	1,473
Pipe Underdrains For Structures 4"	Foot	585
Temporary Soil Retention System	Sq. Ft.	1,567



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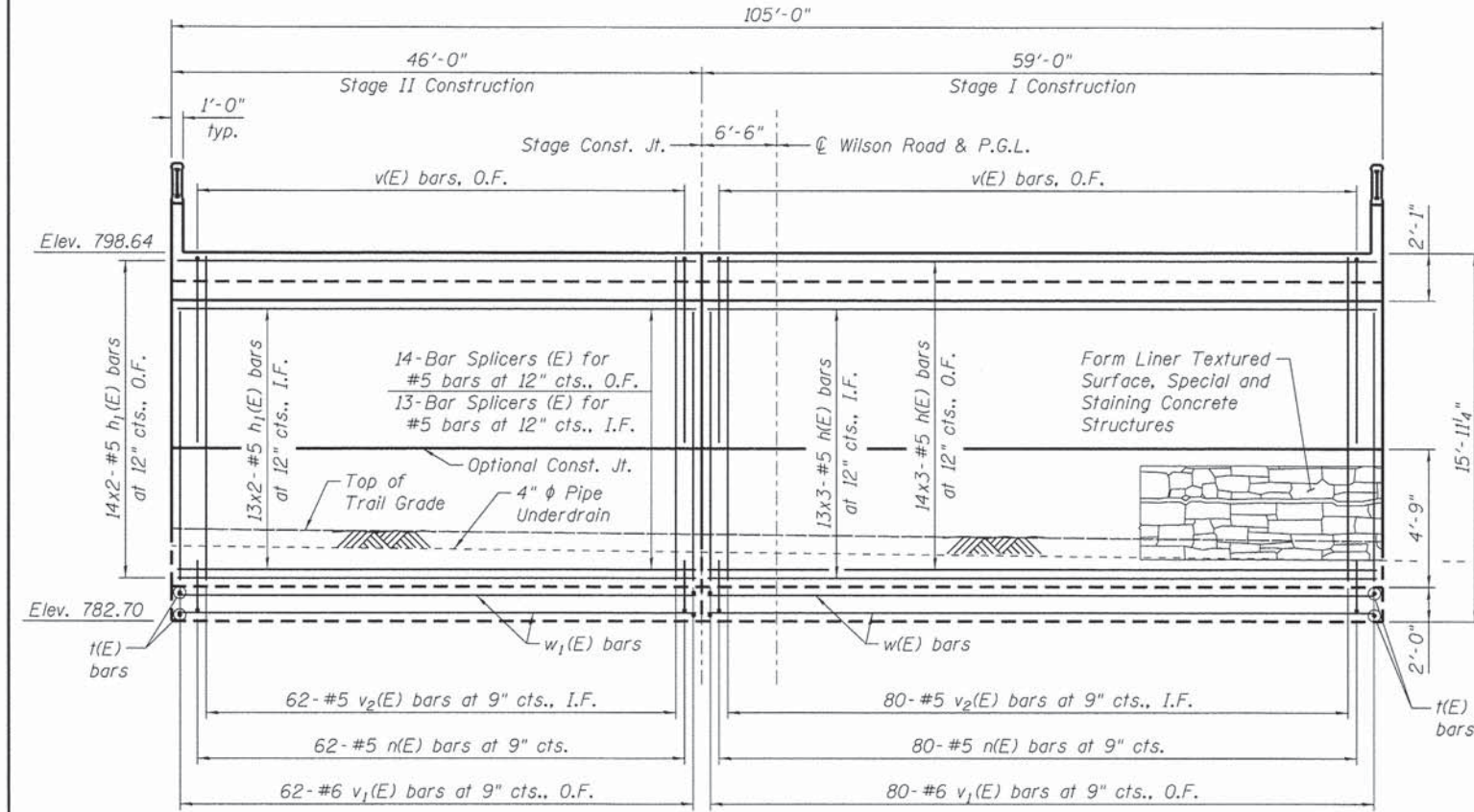
**CG** Clorba Group, Inc.  
CONSULTING ENGINEERS  
801 North Commercial Avenue  
Suite 415 Chicago, Illinois 60610  
Tel: 773.775.4500  
Fax: 773.775.4514  
Email: info@clorba.com

USER NAME = rdonley	DESIGNED - APD	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

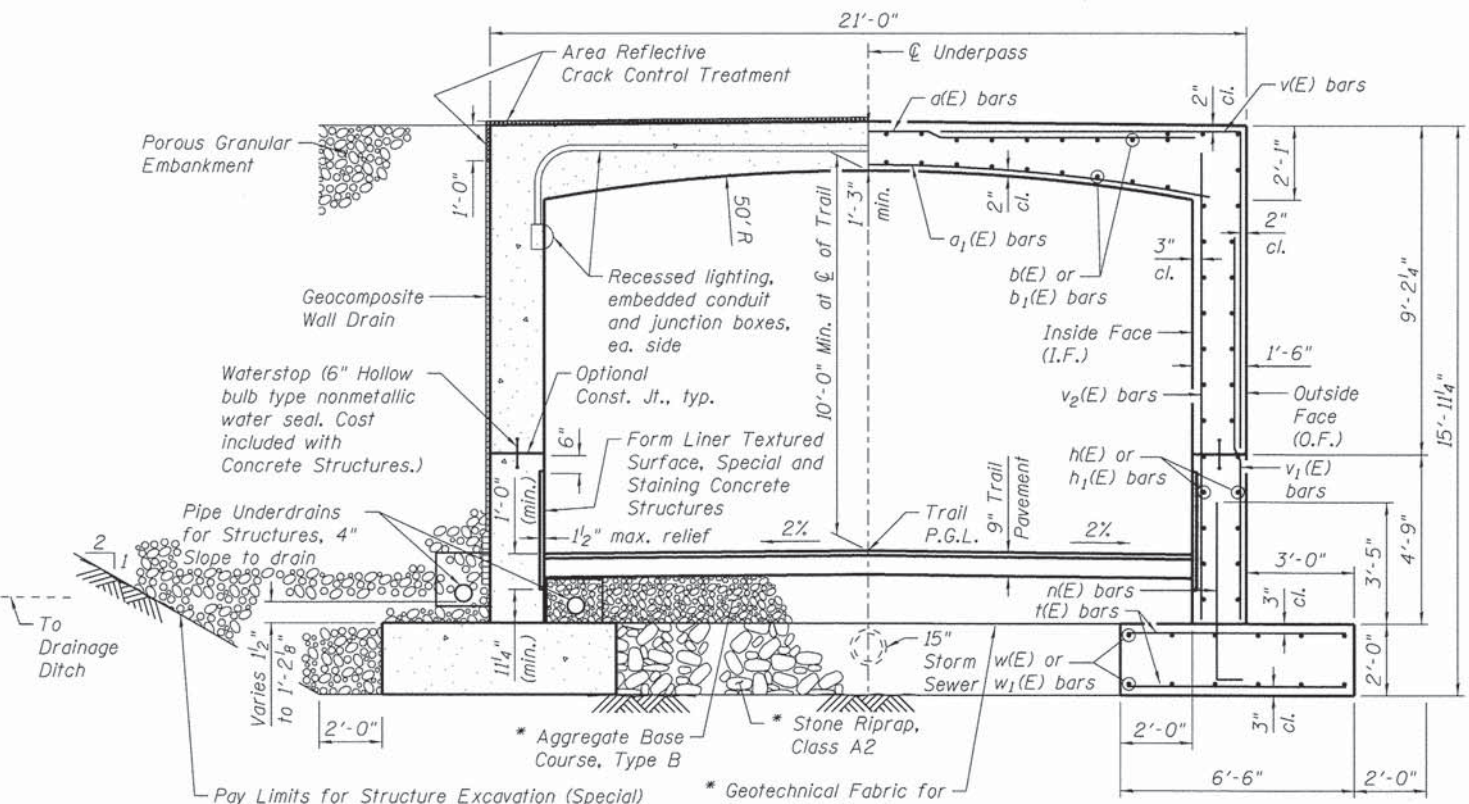
**GENERAL NOTES, TOTAL BILL OF MATERIALS & STAGING DETAILS**  
**STRUCTURE NO. 049-N009**  
SHEET NO. S-2 OF S-12 SHEETS

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 59
CONTRACT NO. 63808				
ILLINOIS FED. AID PROJECT				



**ELEVATION**

(South Wall is shown - North Wall is similar)

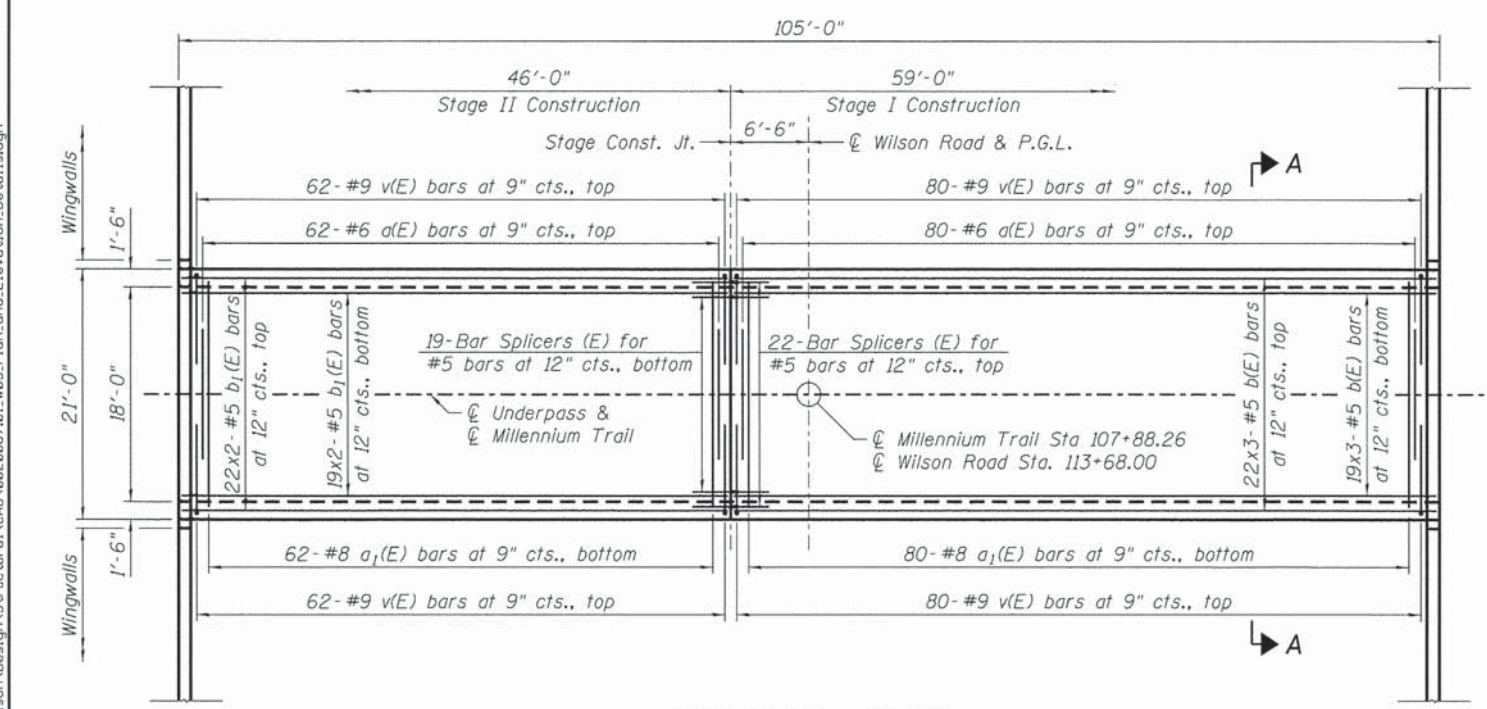


**SECTION A-A**

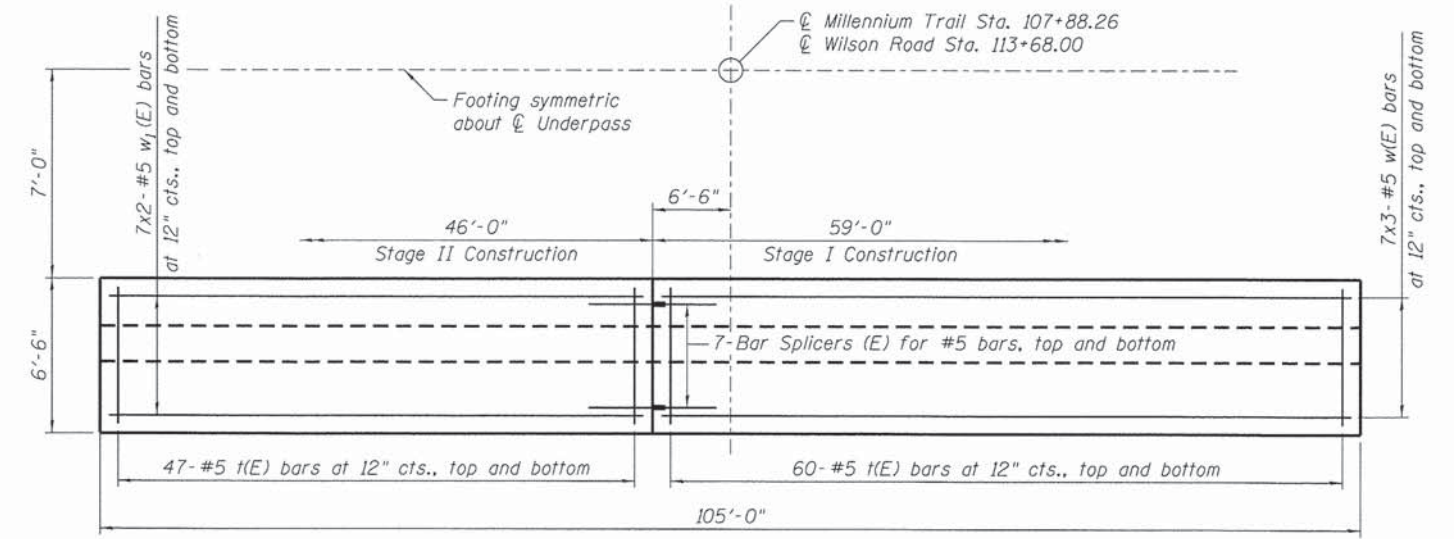
(Structure symmetric about centerline of Underpass)

\* To be placed between Sta. 107+25 and 108+50

Note:  
 Maximum factored net bearing pressure = 2,100 psf  
 Maximum factored bearing resistance available = 2,250 psf  
 Maximum allowable net bearing resistance = 1,500 psf



**TOP SLAB - PLAN**



**FOOTING - PLAN**

(South Footing is shown)

**NOTES:**

1. See sheet S-4 for Bill of Materials and Bar Dimensions.
2. See sheets S-5 & S-6 for pipe underdrain invert elevations and sheet S-7 for Pipe Underdrain Detail.
3. See sheet S-8 for Architectural Details.

**MIN. BAR LAP**

Bar Size	Class C
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"

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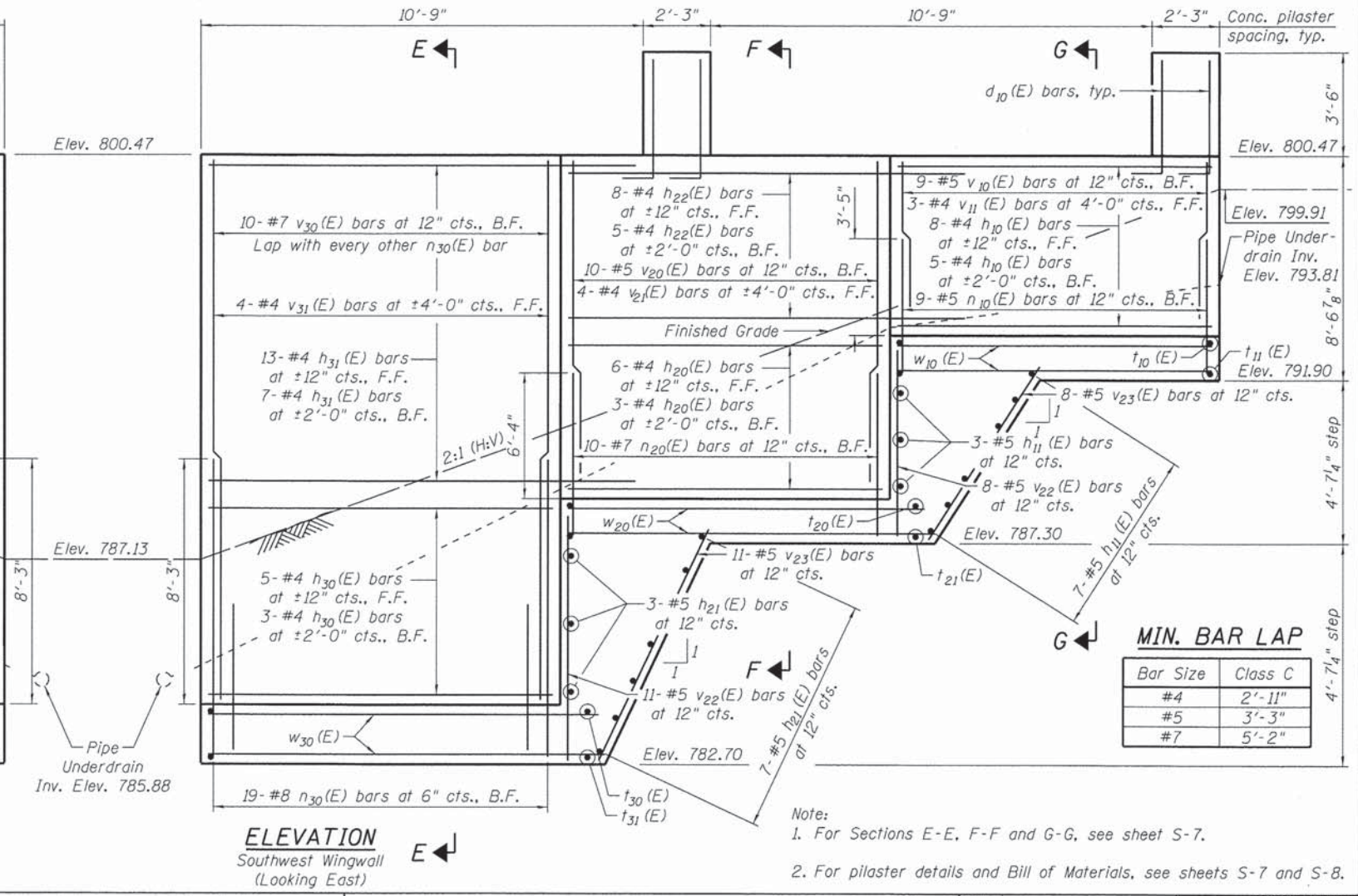
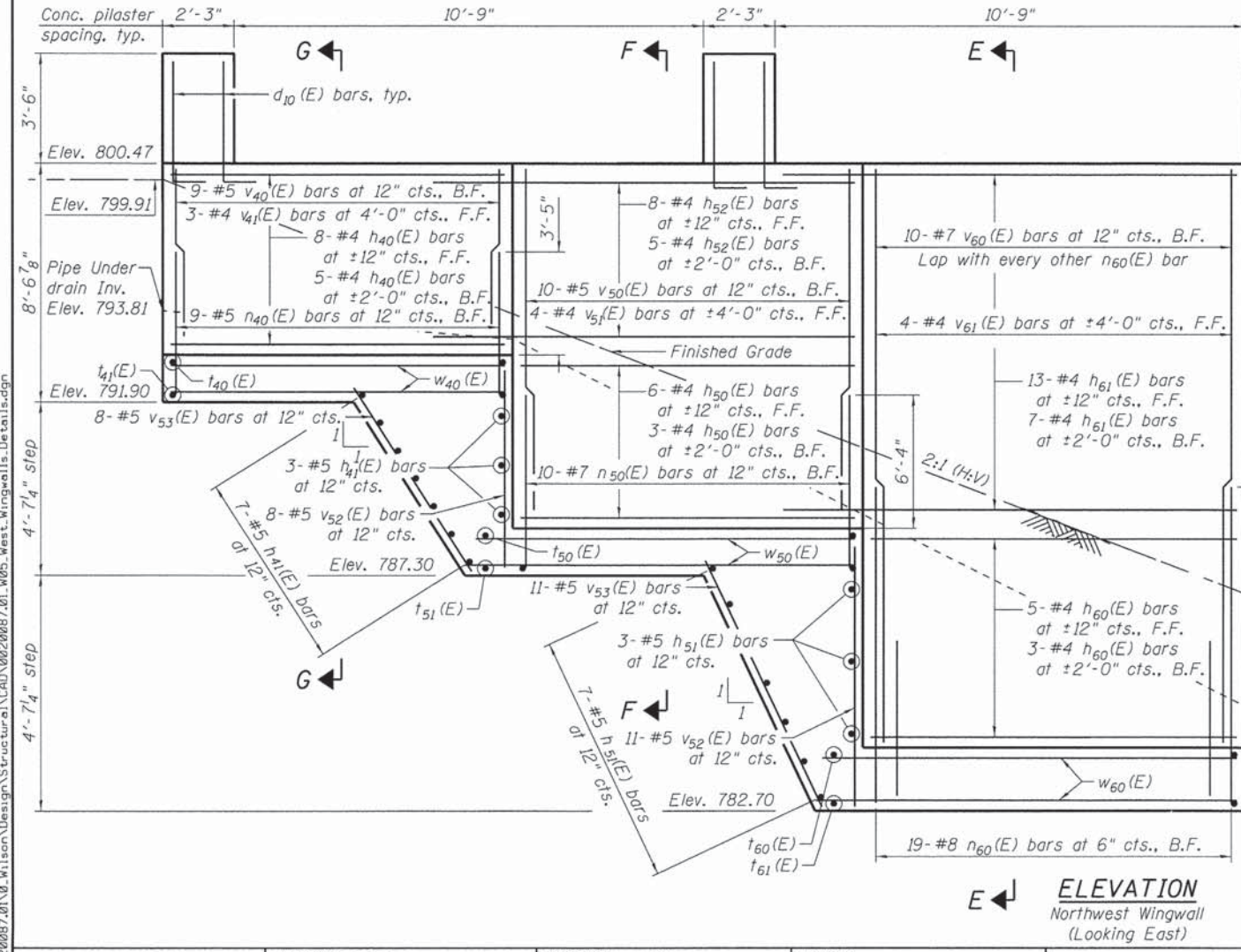
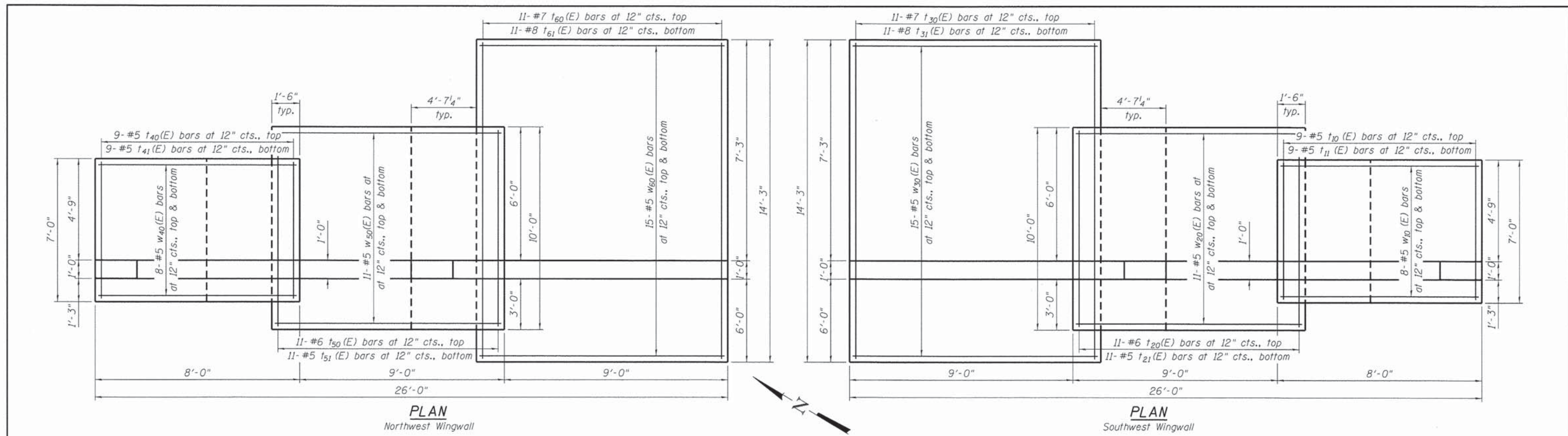
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS PLAN AND ELEVATION  
STRUCTURE NO. 049-N009**

SHEET NO. S-3 OF S-12 SHEETS

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 60
CONTRACT NO. 63808				
ILLINOIS FED. AID PROJECT				





**MIN. BAR LAP**

Bar Size	Class C
#4	2'-11"
#5	3'-3"
#7	5'-2"

Note:  
 1. For Sections E-E, F-F and G-G, see sheet S-7.  
 2. For pilaster details and Bill of Materials, see sheets S-7 and S-8.



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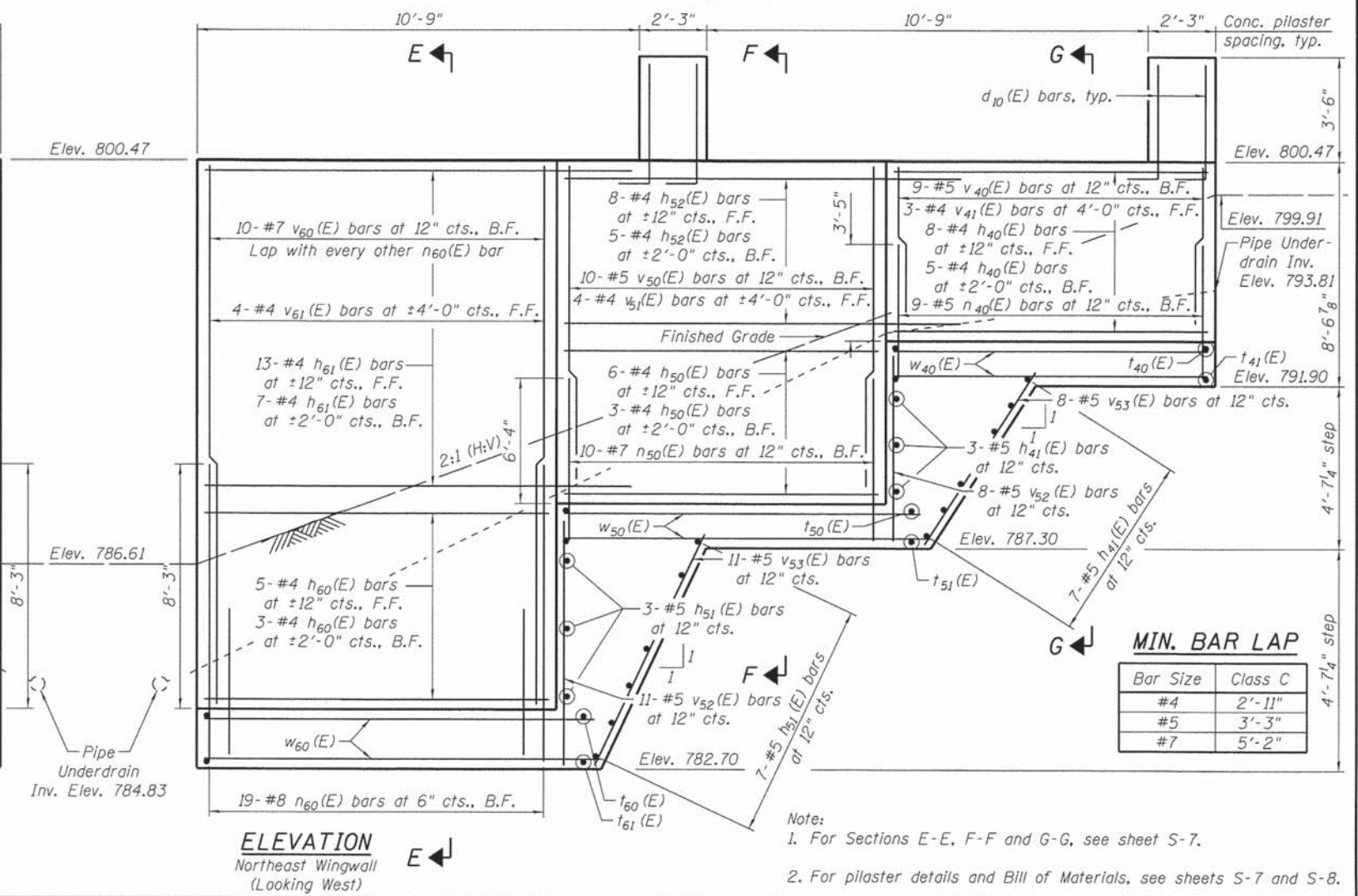
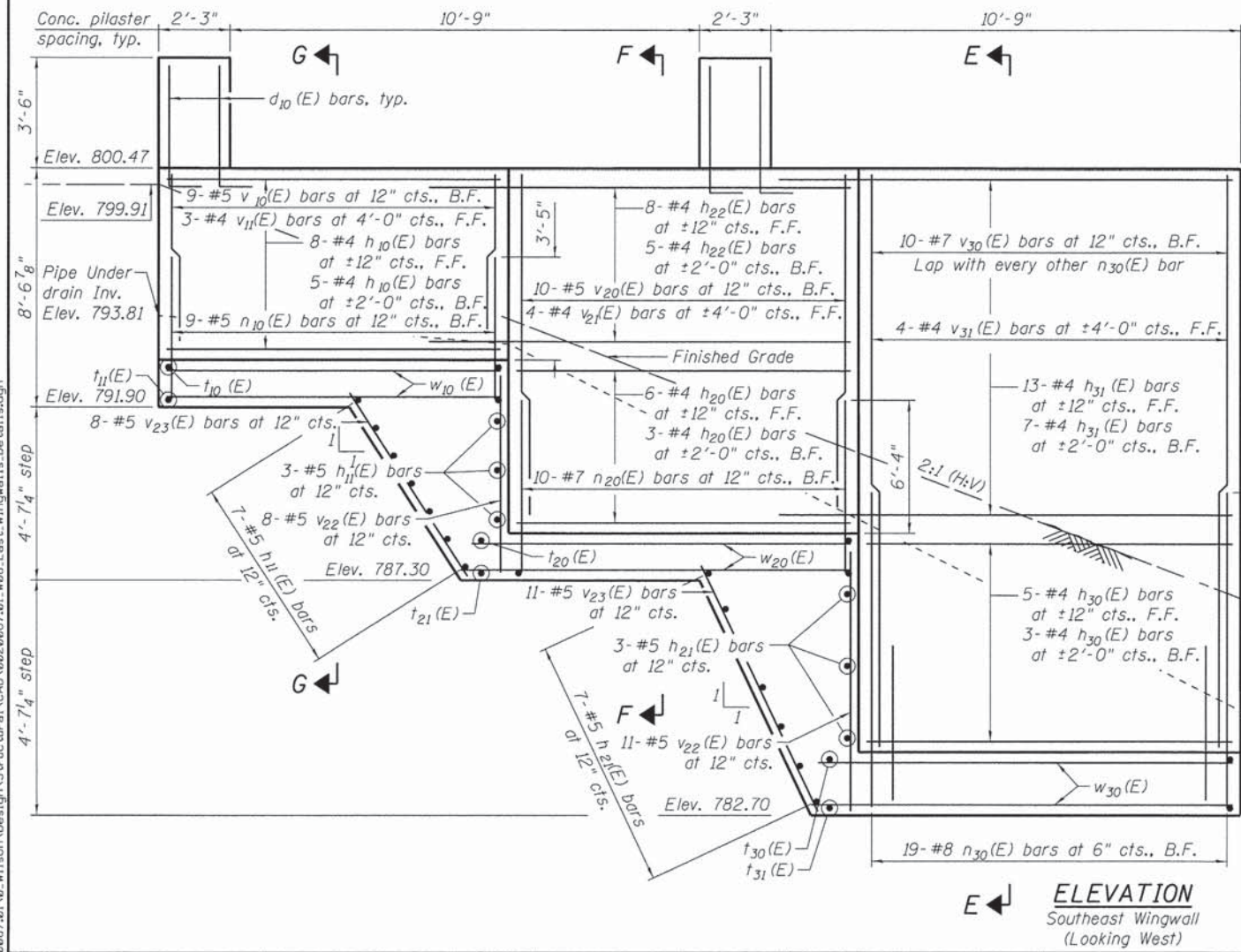
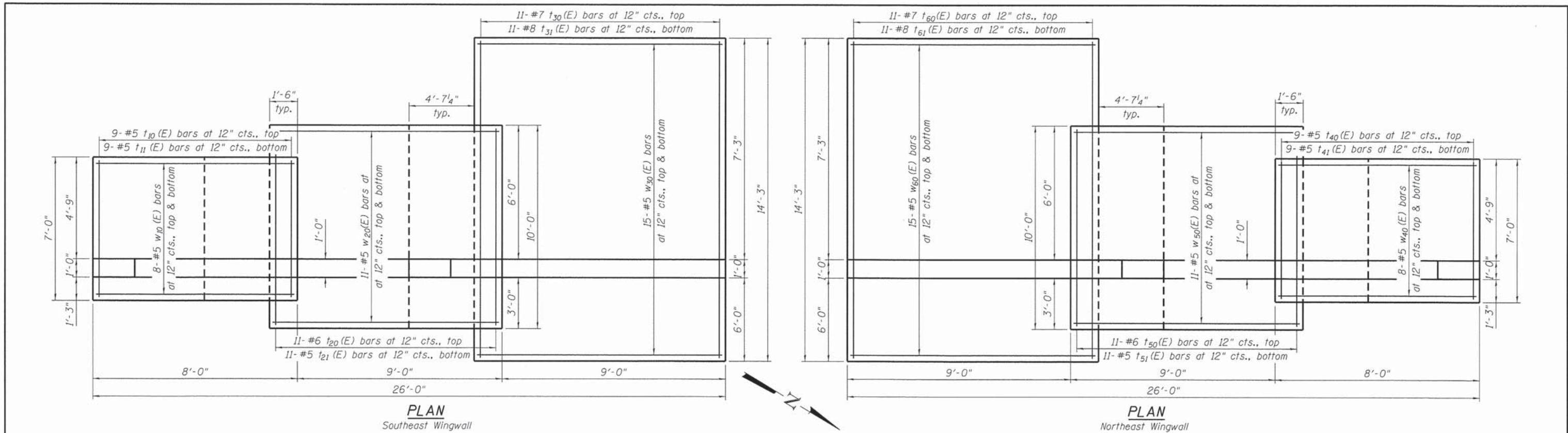
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST WINGWALLS DETAILS  
STRUCTURE NO. 049-N009**

SHEET NO. S-5 OF S-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	62

CONTRACT NO. 63808  
ILLINOIS FED. AID PROJECT



**MIN. BAR LAP**

Bar Size	Class C
#4	2'-11"
#5	3'-3"
#7	5'-2"

Note:  
 1. For Sections E-E, F-F and G-G, see sheet S-7.  
 2. For pilaster details and Bill of Materials, see sheets S-7 and S-8.

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**Clorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5537 North Cumberland Avenue  
 Suite 402 Chicago, Illinois 60630  
 Tel: 773.776.4554  
 Email: clorba@clorba.com

USER NAME = rdenley	DESIGNED - MHT	REVISED -
PLOT SCALE = 2.66667' / 1"	CHECKED - APD	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

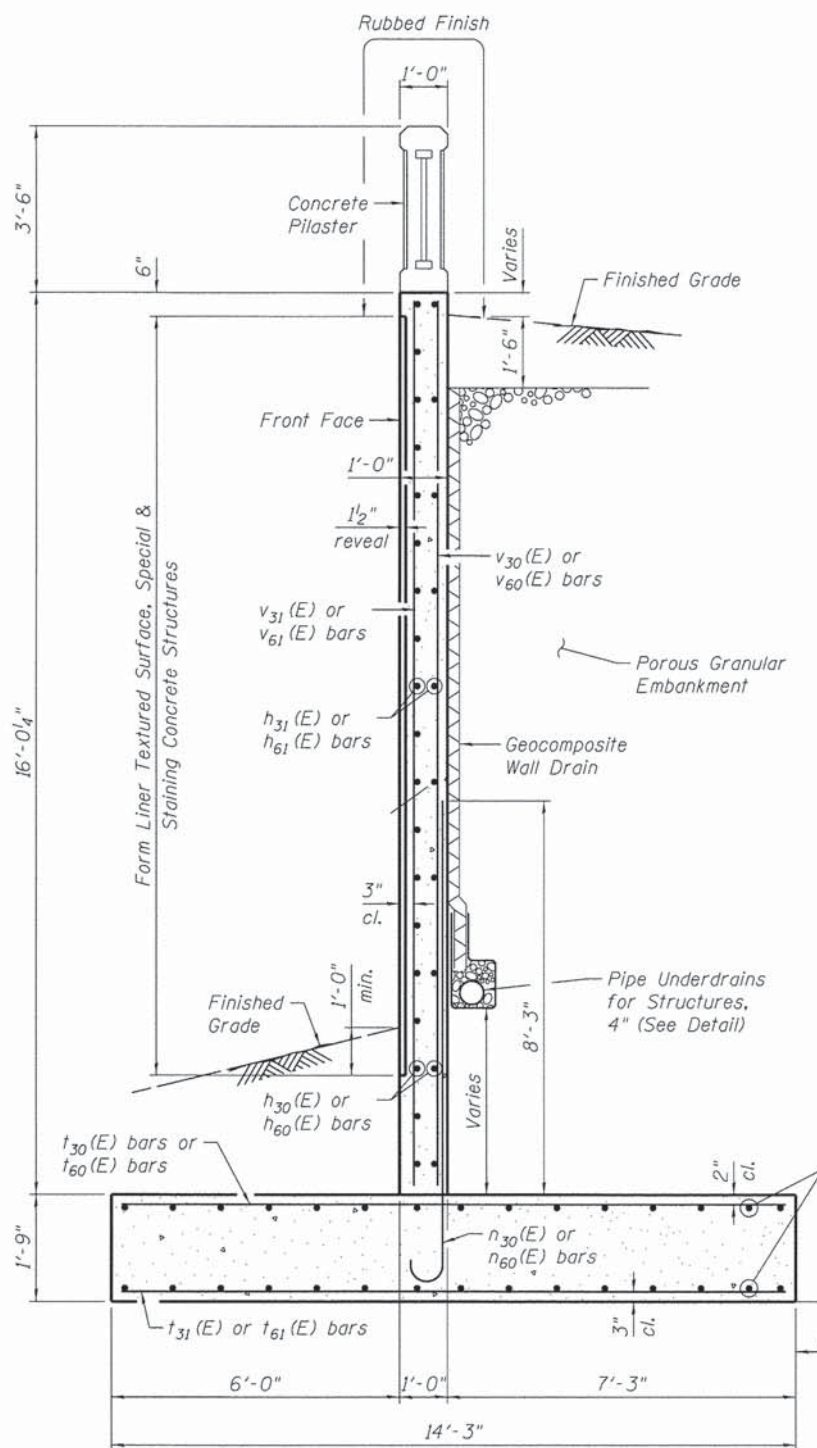
**EAST WINGWALLS DETAILS**  
**STRUCTURE NO. 049-N009**  
 SHEET NO. S-6 OF S-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63808  
 ILLINOIS FED. AID PROJECT

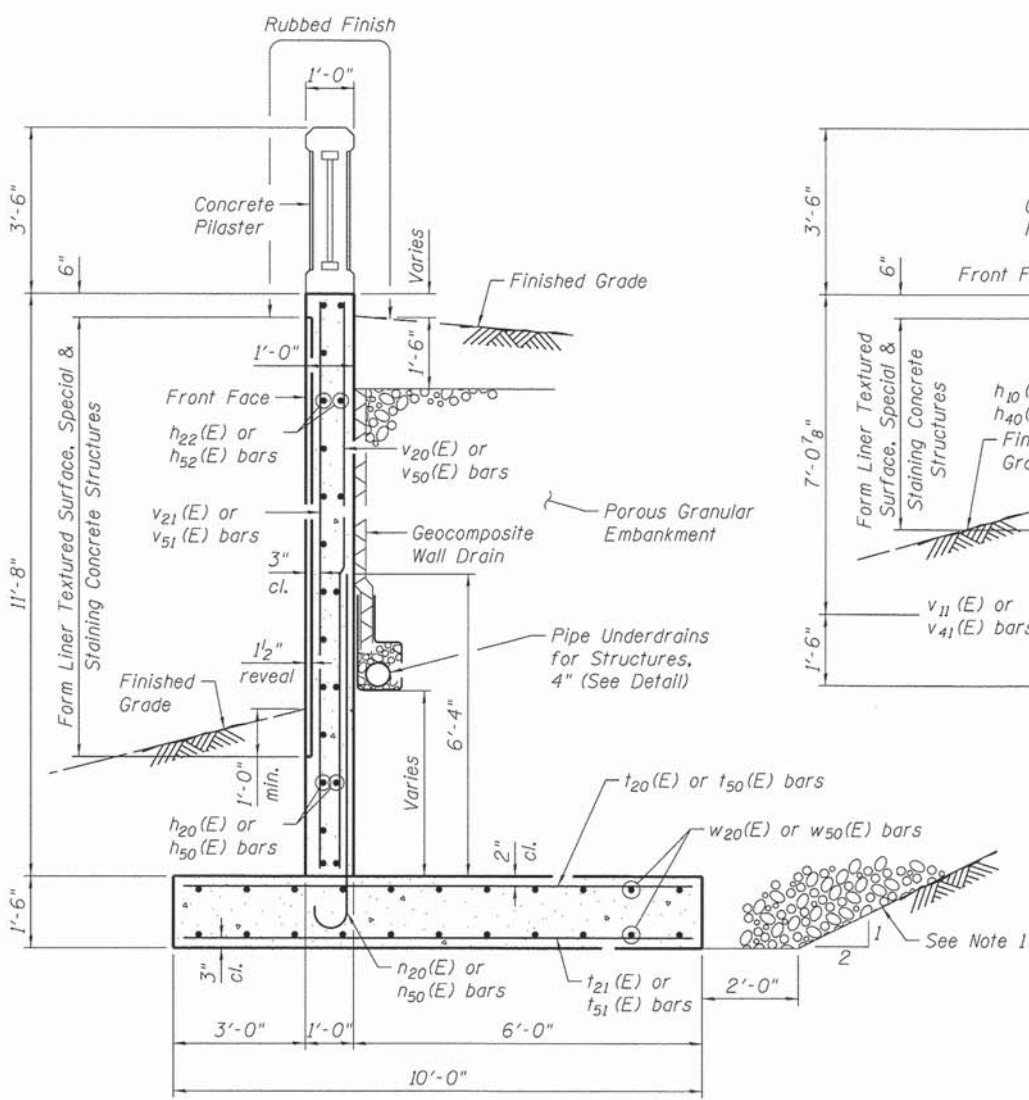
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>10</sub> (E)	26	# 4	7'-8"	—
h <sub>11</sub> (E)	20	# 5	6'-8"	—
h <sub>20</sub> (E)	18	# 4	8'-8"	—
h <sub>21</sub> (E)	20	# 5	9'-8"	—
h <sub>22</sub> (E)	26	# 4	11'-11"	—
h <sub>30</sub> (E)	16	# 4	8'-8"	—
h <sub>31</sub> (E)	40	# 4	11'-11"	—
h <sub>40</sub> (E)	26	# 4	7'-8"	—
h <sub>41</sub> (E)	20	# 5	6'-8"	—
h <sub>50</sub> (E)	18	# 4	8'-8"	—
h <sub>51</sub> (E)	20	# 5	9'-8"	—
h <sub>52</sub> (E)	26	# 4	11'-11"	—
h <sub>60</sub> (E)	16	# 4	8'-8"	—
h <sub>61</sub> (E)	40	# 4	11'-11"	—
n <sub>10</sub> (E)	18	# 5	5'-3"	U
n <sub>20</sub> (E)	20	# 7	8'-5"	U
n <sub>30</sub> (E)	38	# 8	10'-8"	U
n <sub>40</sub> (E)	18	# 5	5'-3"	U
n <sub>50</sub> (E)	20	# 7	8'-5"	U
n <sub>60</sub> (E)	38	# 8	10'-8"	U
t <sub>10</sub> (E)	18	# 5	6'-8"	—
t <sub>11</sub> (E)	18	# 5	6'-8"	—
t <sub>20</sub> (E)	22	# 6	9'-8"	—
t <sub>21</sub> (E)	22	# 5	9'-8"	—
t <sub>30</sub> (E)	22	# 7	13'-11"	—
t <sub>31</sub> (E)	22	# 8	13'-11"	—
t <sub>40</sub> (E)	18	# 5	6'-8"	—
t <sub>41</sub> (E)	18	# 5	6'-8"	—
t <sub>50</sub> (E)	22	# 6	9'-8"	—
t <sub>51</sub> (E)	22	# 5	9'-8"	—
t <sub>60</sub> (E)	22	# 7	13'-11"	—
t <sub>61</sub> (E)	22	# 8	13'-11"	—
v <sub>10</sub> (E)	18	# 5	6'-9"	—
v <sub>11</sub> (E)	6	# 4	6'-9"	—
v <sub>20</sub> (E)	20	# 5	11'-4"	—
v <sub>21</sub> (E)	8	# 4	11'-4"	—
v <sub>22</sub> (E)	38	# 5	5'-7"	—
v <sub>23</sub> (E)	38	# 5	7'-8"	—
v <sub>30</sub> (E)	20	# 7	15'-8"	—
v <sub>31</sub> (E)	8	# 4	15'-8"	—
v <sub>40</sub> (E)	18	# 5	6'-9"	—
v <sub>41</sub> (E)	6	# 4	6'-9"	—
v <sub>50</sub> (E)	20	# 5	11'-4"	—
v <sub>51</sub> (E)	8	# 4	11'-4"	—
v <sub>52</sub> (E)	38	# 5	5'-7"	—
v <sub>53</sub> (E)	38	# 5	7'-8"	—
v <sub>60</sub> (E)	20	# 7	15'-8"	—
v <sub>61</sub> (E)	8	# 4	15'-8"	—
w <sub>10</sub> (E)	32	# 5	7'-8"	—
w <sub>20</sub> (E)	44	# 5	10'-2"	—
w <sub>30</sub> (E)	60	# 5	10'-2"	—
w <sub>40</sub> (E)	32	# 5	7'-8"	—
w <sub>50</sub> (E)	44	# 5	10'-2"	—
w <sub>60</sub> (E)	60	# 5	10'-2"	—
Porous Granular Embankment			Cu. Yd.	307
Structure Excavation, Special			Cu. Yd.	777
Concrete Structures			Cu. Yd.	157.7
Reinforcement Bars, Epoxy Coated			Pound	16,030
Geocomposite Wall Drain			Sq. Yd.	91
Pipe Underdrains for Structures, 4"			Foot	127
Rubbed Finish			Sq. Ft.	194
Form Liner Textured Surface, Special			Sq. Ft.	702
Staining Concrete Structures			Sq. Yd.	78

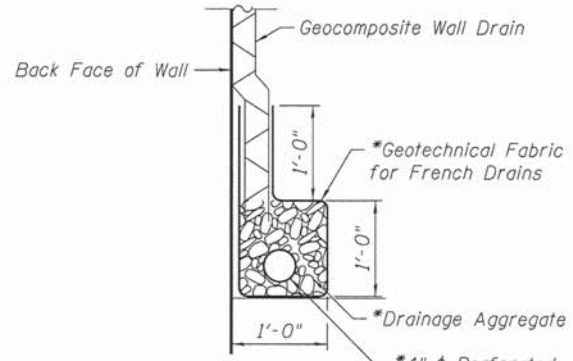


**SECTION E-E**

Note:  
 Maximum factored bearing pressure = 2,080 psf  
 Factored bearing resistance available = 2,250 psf  
 Maximum allowable net bearing resistance = 1,500 psf

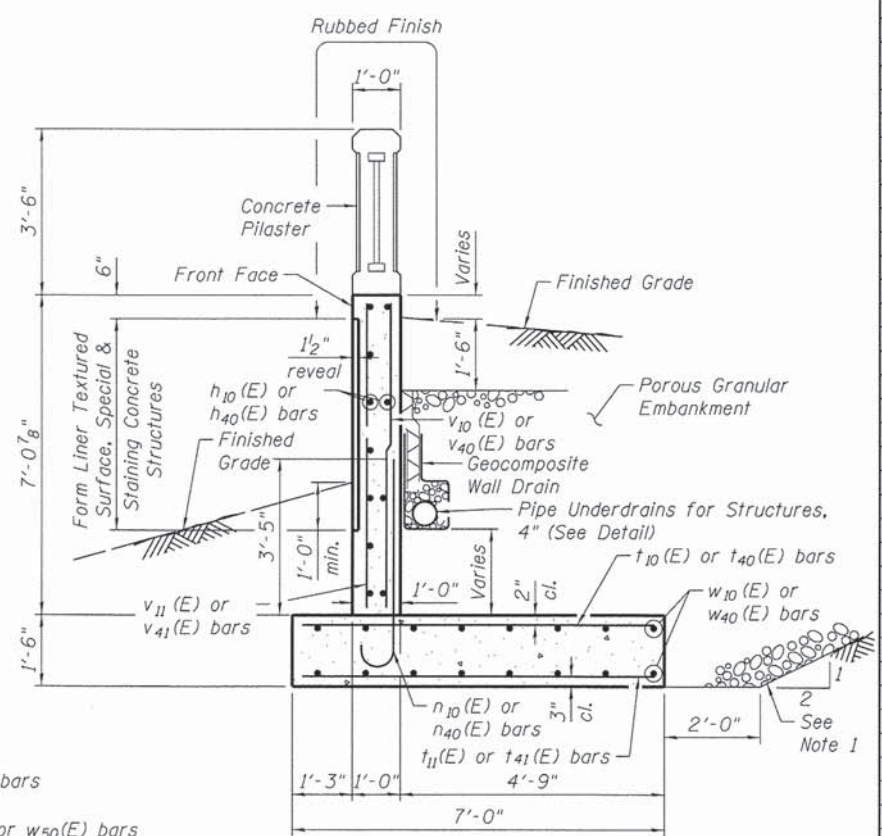


**SECTION F-F**



**PIPE UNDERDRAIN DETAIL**

\* Included in the cost of Pipe Underdrains for Structures, 4"



**SECTION G-G**

**BARS n<sub>10</sub>(E), n<sub>20</sub>(E), n<sub>30</sub>(E), n<sub>40</sub>(E), n<sub>50</sub>(E) & n<sub>60</sub>(E)**

Bar	A	B	C
n <sub>10</sub> (E)	4'-8"	7"	5"
n <sub>20</sub> (E)	7'-7"	10"	7"
n <sub>30</sub> (E)	9'-9"	11"	8"
n <sub>40</sub> (E)	4'-8"	7"	5"
n <sub>50</sub> (E)	7'-7"	10"	7"
n <sub>60</sub> (E)	9'-9"	11"	8"

**NOTES:**

1. Pay Limits for Structure Excavation (Special) and Porous Granular Embankment. Contractor shall establish angle of excavation between 1.5:1 and 2:1 for structure Excavation (Special) unless otherwise approved by the Engineer.

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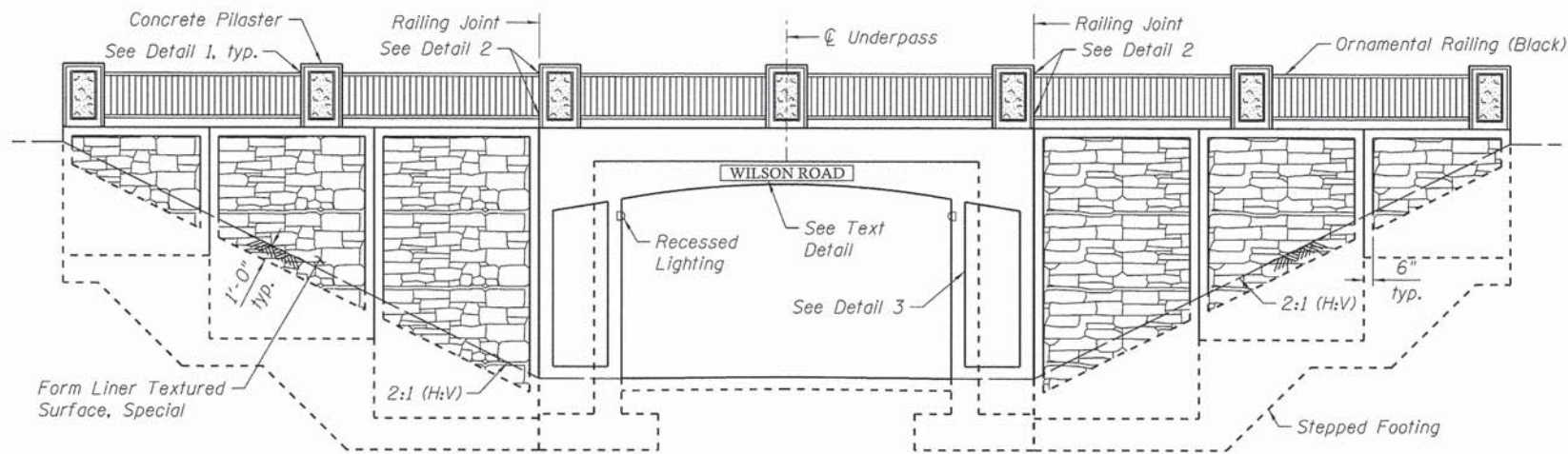
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

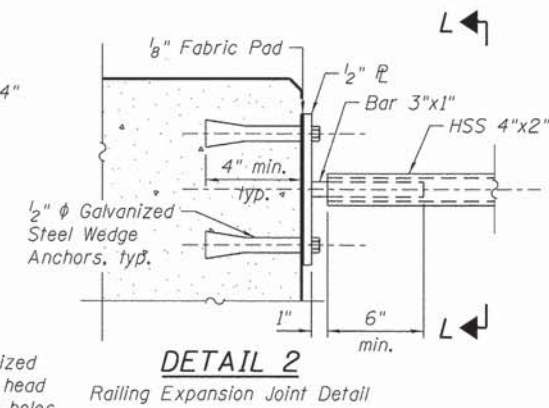
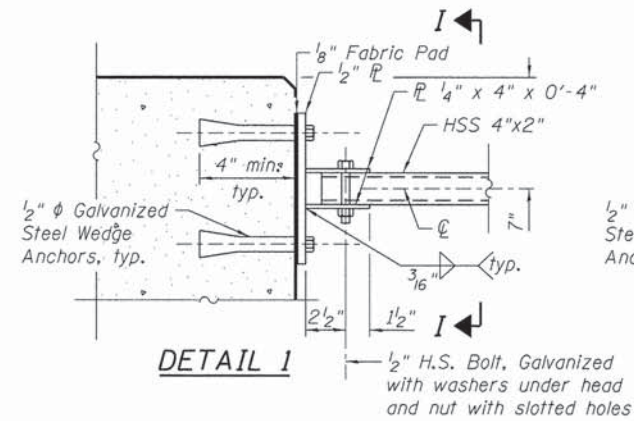
**WINGWALL DETAILS  
 STRUCTURE NO. 049-N009**  
 SHEET NO. S-7 OF S-12 SHEETS

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 64
				CONTRACT NO. 63808
[ILLINOIS] FED. AID PROJECT				



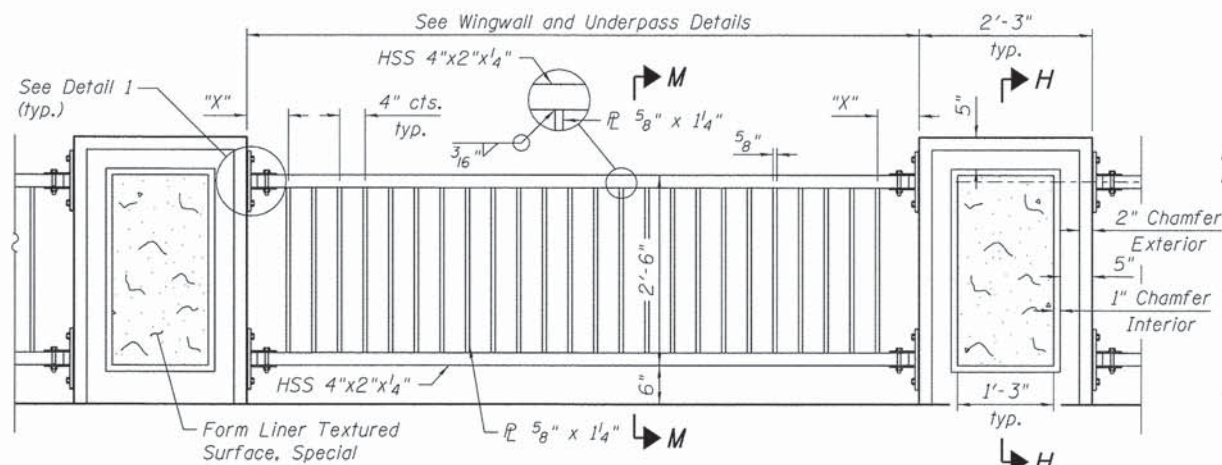


TYPICAL END SECTION



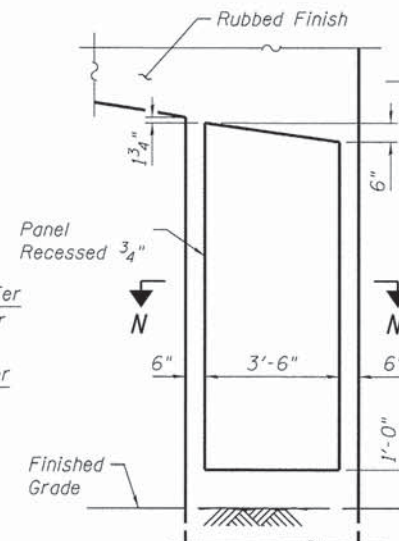
DETAIL 1

DETAIL 2



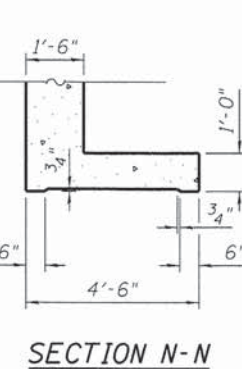
TYPICAL RAILING ELEVATION

Dimension "X" Equals Remaining Distance After Even Plate Spacing

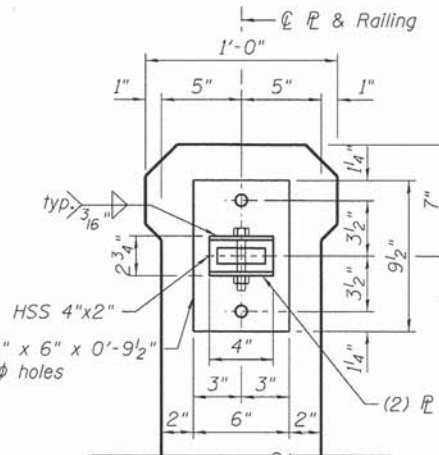


DETAIL 3

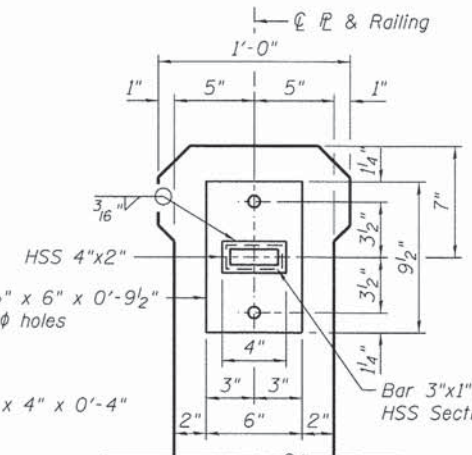
Recessed Panel Detail



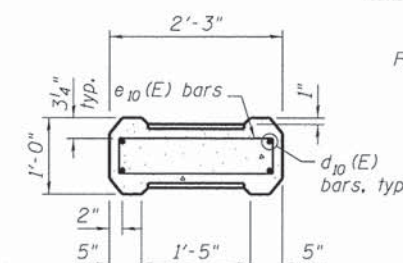
SECTION N-N



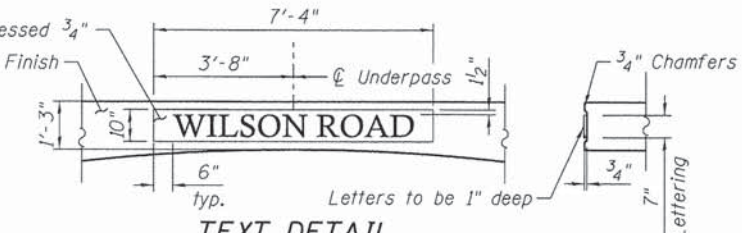
SECTION I-I



SECTION L-L



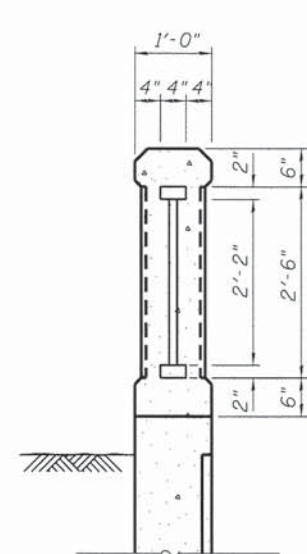
SECTION K-K



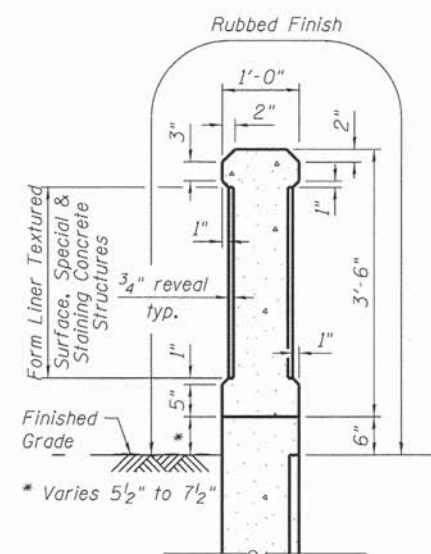
TEXT DETAIL

Font Style to be Calisto MT

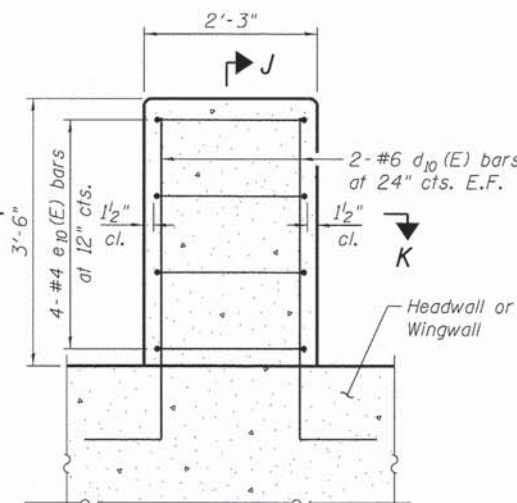
The Contractor shall provide a one-piece precast concrete name panel to be inset in the poured in place structure in the dimensions shown. This cast shall be included with Concrete Structures. Provide a shop drawing indicating design mix, dimensions and attachment method.



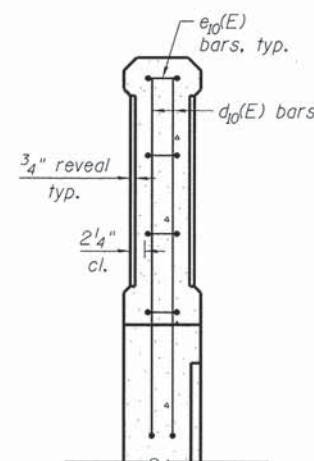
SECTION M-M



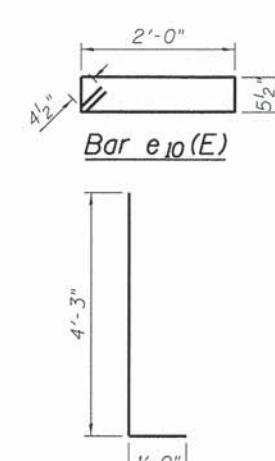
SECTION H-H



PILASTER REINFORCING (Front Face)



SECTION J-J



Bar d10(E)

BILL OF MATERIAL

(For Pilasters)

Bar	No.	Size	Length	Shape
d10(E)	56	# 6	5'-3"	[U-shape]
e10(E)	56	# 4	5'-8"	[I-shape]
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	4.1		
Rubbed Finish	Sq. Ft.	263		
Ornamental Railing	Foot	127		
Reinforcement Bars, Epoxy Coated	Pound	660		
Form Liner Textured Surface, Special	Sq. Ft.	88		
Staining Concrete Structures	Sq. Yd.	.10		

N:\PROJ\002\0087.01\Wilson\Design\Structural\CAD\002\0087.01.W08.Architectural\_Details.dgn

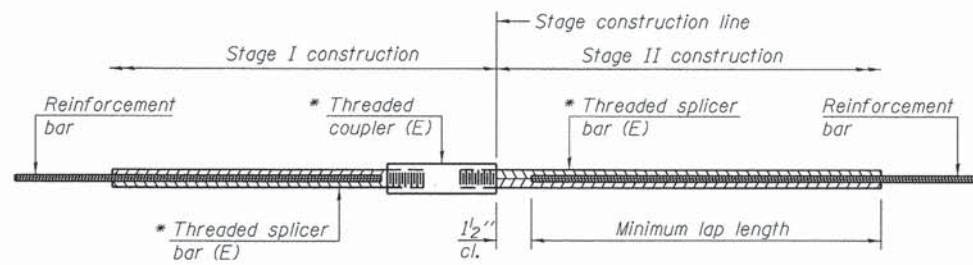


USER NAME = rdenley	DESIGNED - SMY	REVISED -
PLOT SCALE = 5/8"=1'-0"	CHECKED - BWS	REVISED -
PLOT DATE = 3/21/2014	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL DETAILS  
STRUCTURE NO. 049-N009  
SHEET NO. S-8 OF S-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	65
CONTRACT NO. 63808				
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

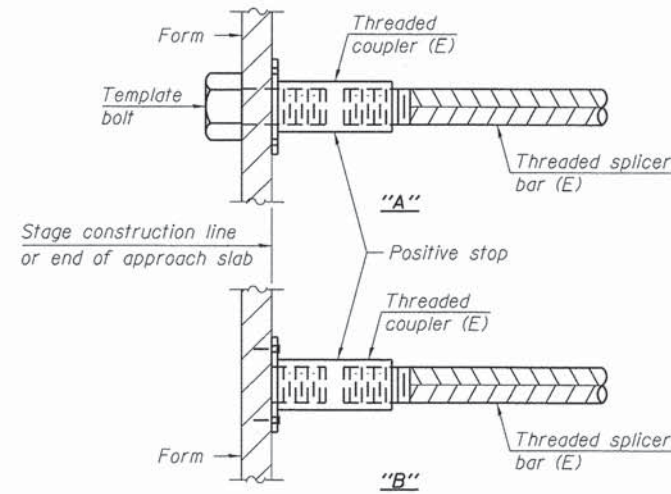
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

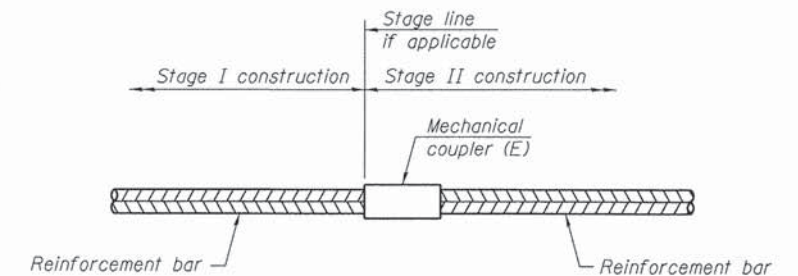
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Underpass Footing	#5	28	Table 5
Top Slab	#5	41	Table 5
Underpass Sidewall	#5	54	Table 5



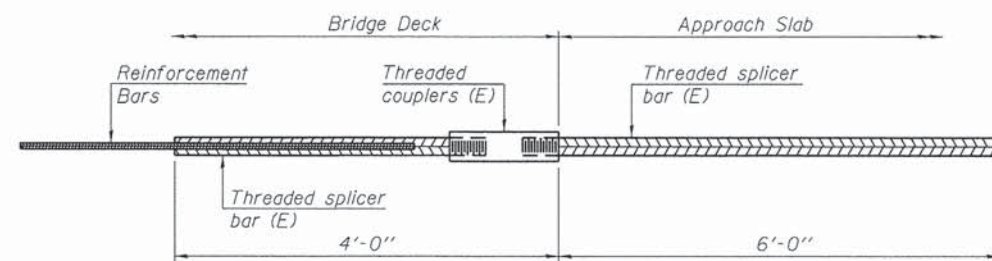
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



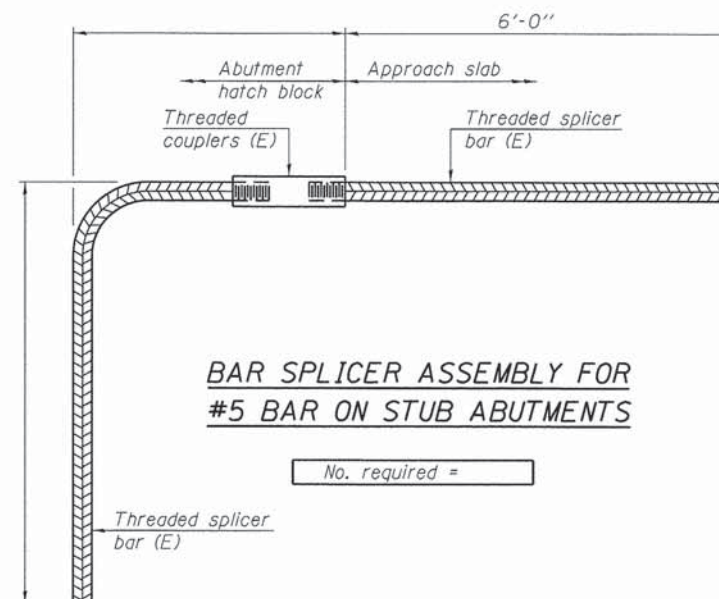
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12



USER NAME = rdenley	DESIGNED - SMY	REVISED -
PLOT SCALE = 0:1.0000 1" = 1'-0"	CHECKED - BWS	REVISED -
PLOT DATE = 3/21/2014	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 049-N009**

SHEET NO. 5-9 OF 5-12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	66
CONTRACT NO. 63808				

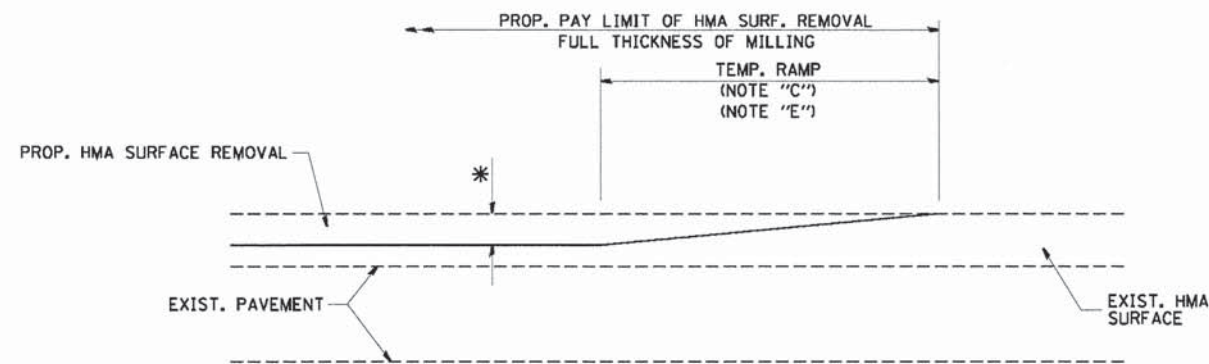
ILLINOIS FED. AID PROJECT

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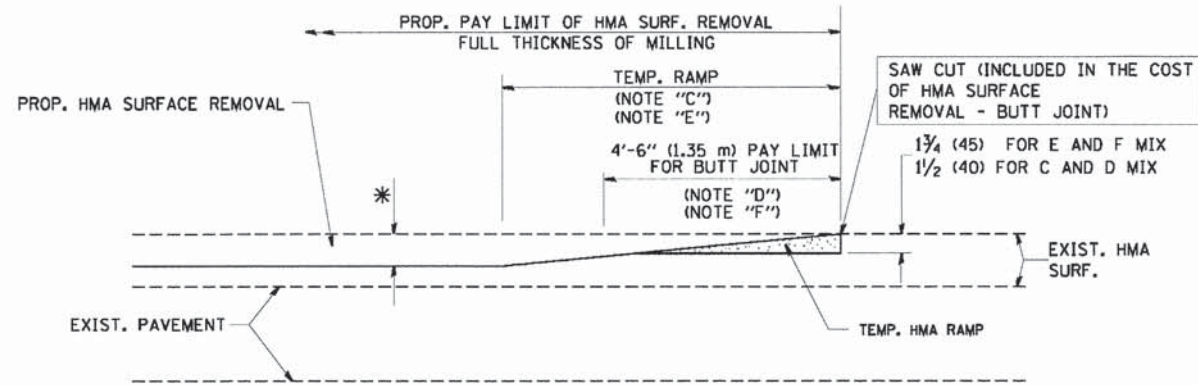






MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

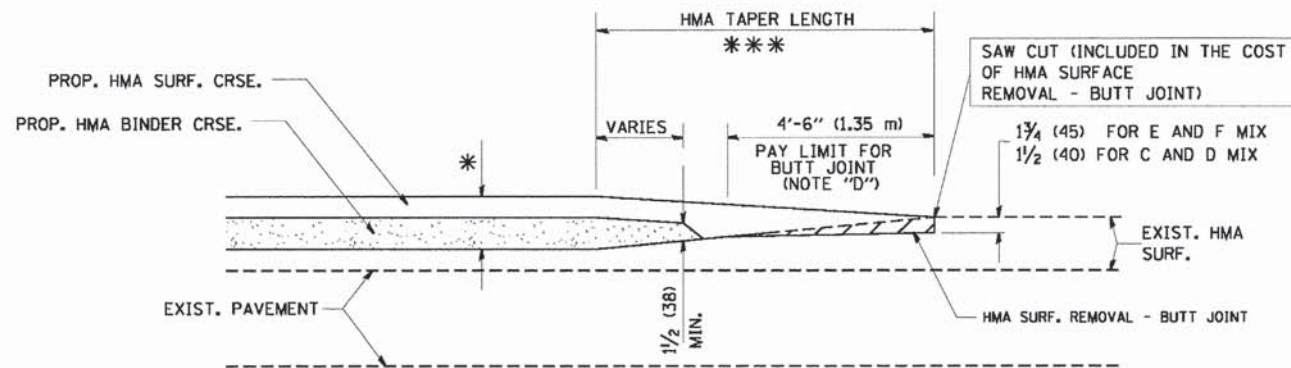
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

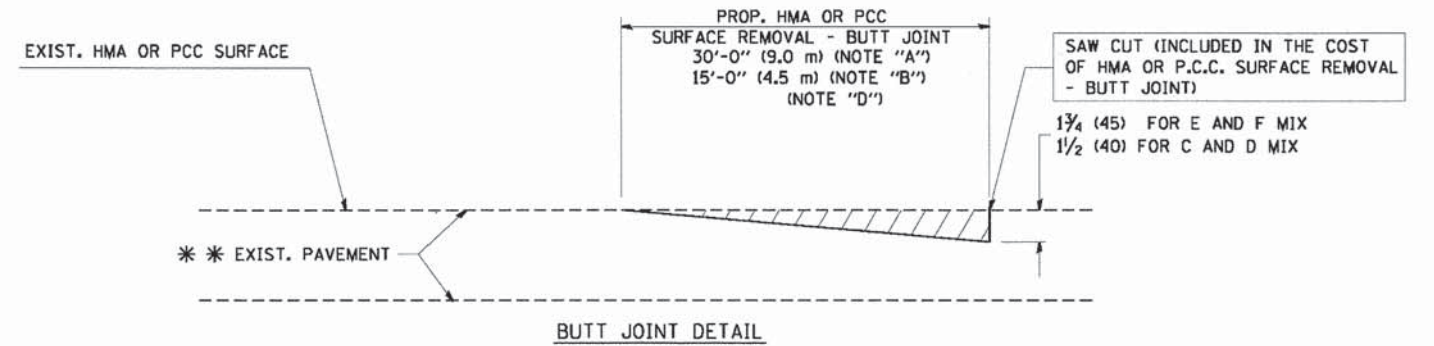
OPTION 2

TYPICAL TEMPORARY RAMP

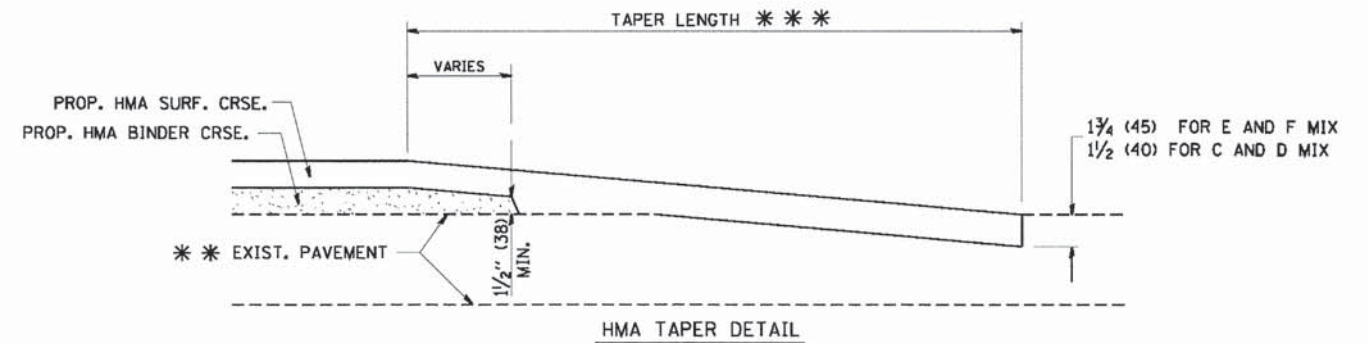


BUTT JOINT AND  
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

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PLOT DATE = 1/4/2008

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DRAWN -  
CHECKED -  
DATE - 06-13-90

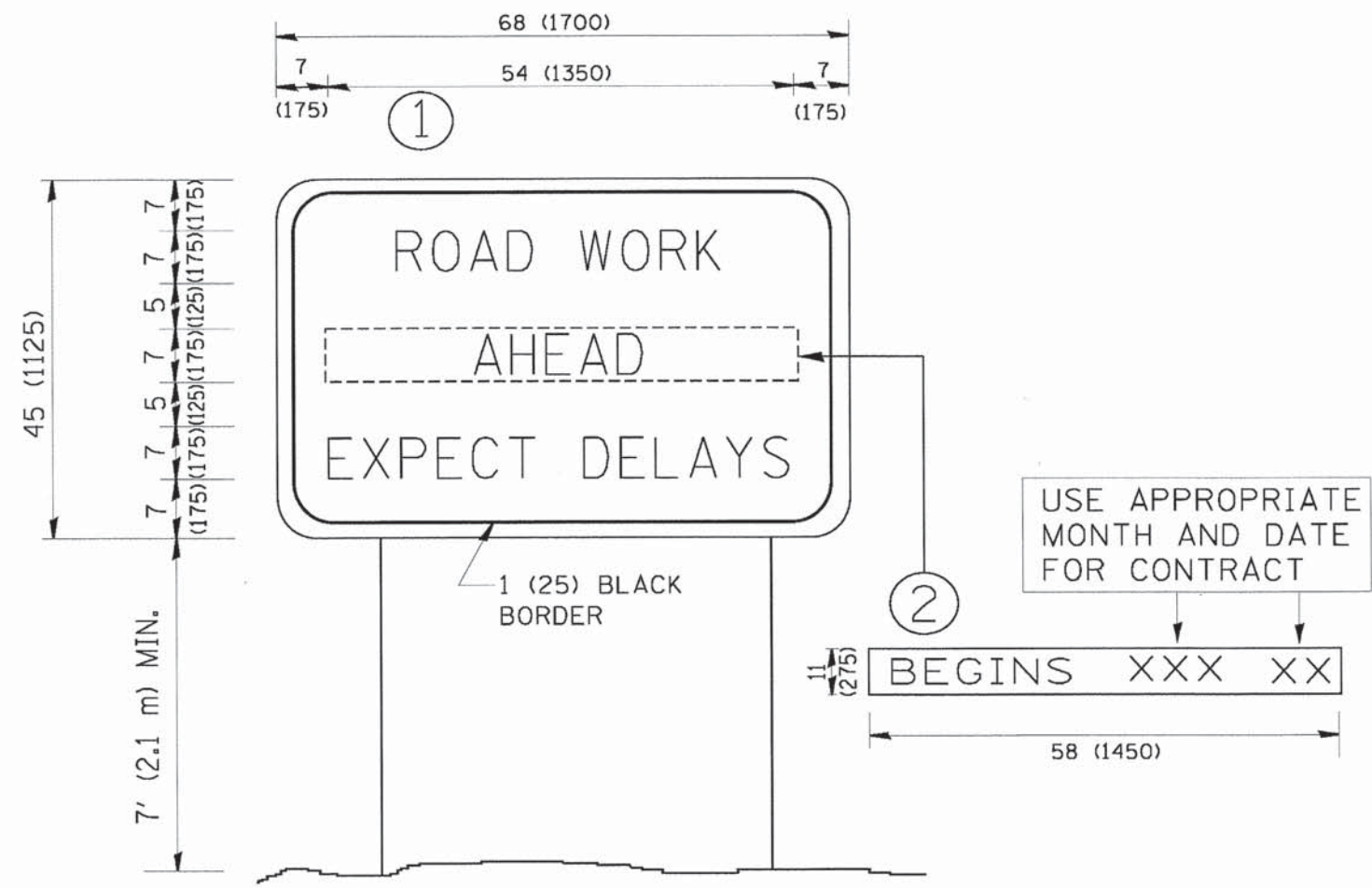
REVISED - R. SHAH 10-25-94  
REVISED - A. ABBAS 03-21-97  
REVISED - M. GOMEZ 04-06-01  
REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	70
BD400-05 BD32			CONTRACT NO. 63808	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

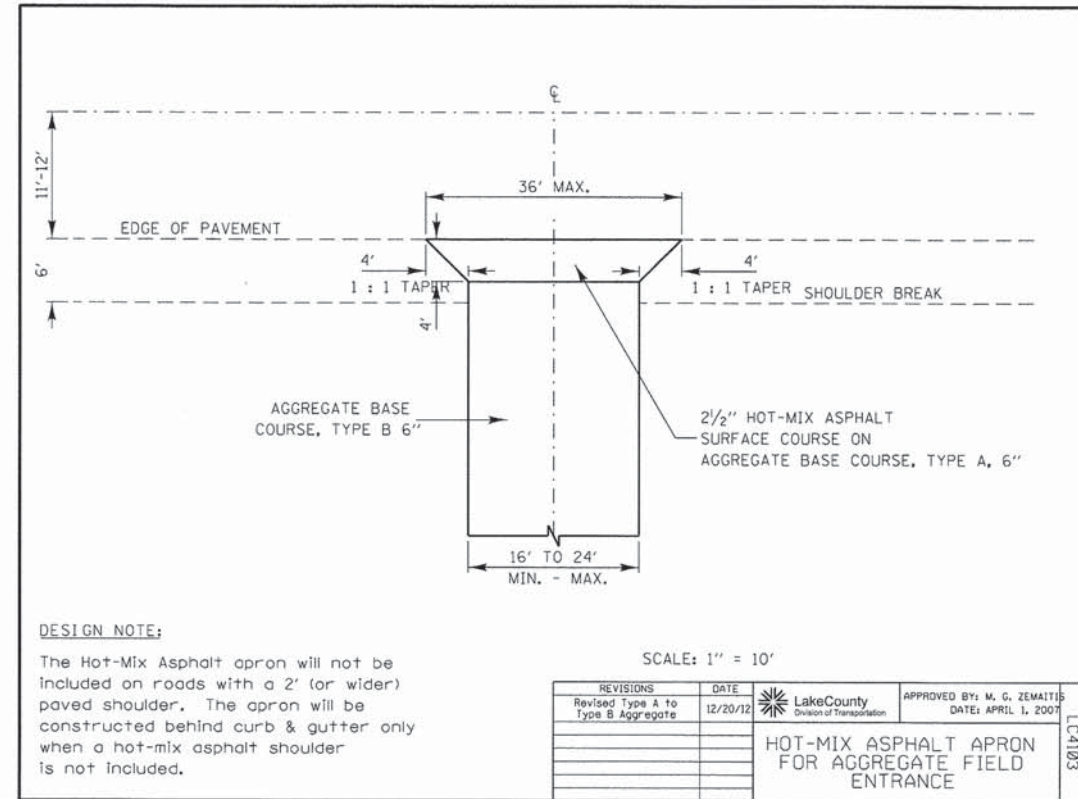
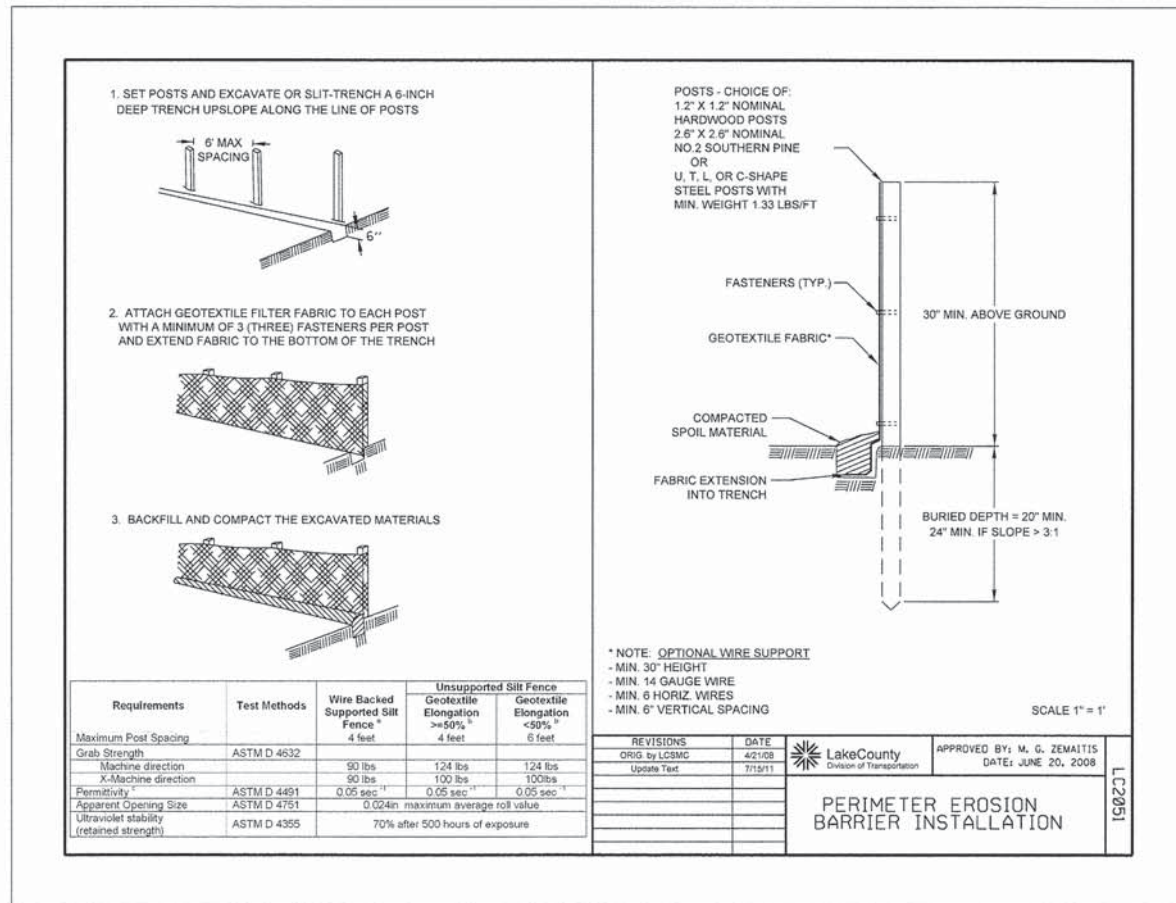
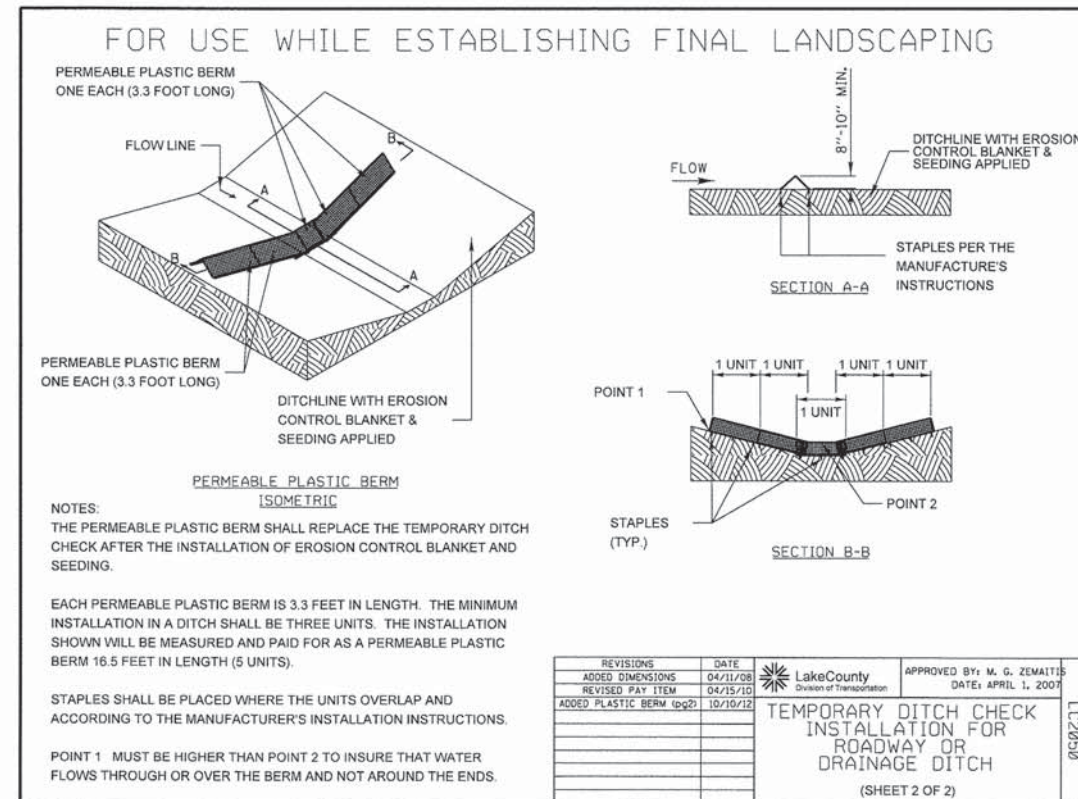
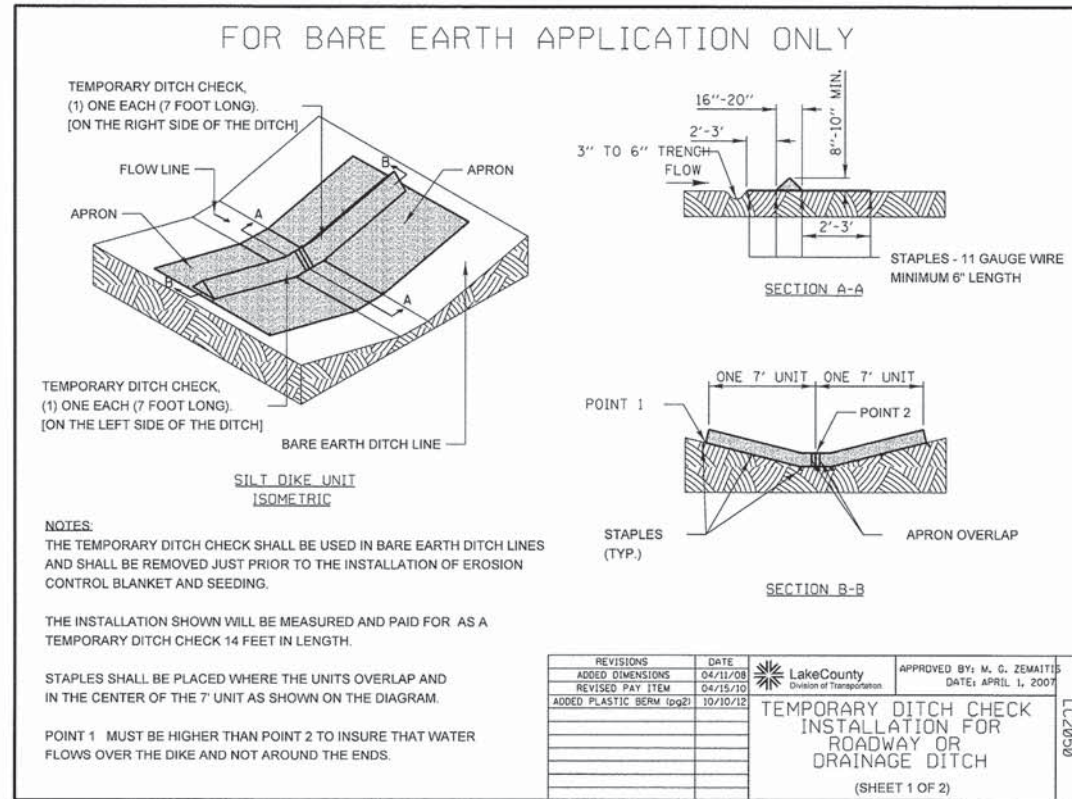
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLLOT DATE = 1/4/2008	DATE - -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ARTERIAL ROAD INFORMATION SIGN</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	71
TC-22		CONTRACT NO. 63808		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = rnumbev	DESIGNED -	REVISED -
PLOT SCALE = 4,5000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/21/2014	CHECKED -	REVISED -
	DATE = 3/21/2014	REVISED -

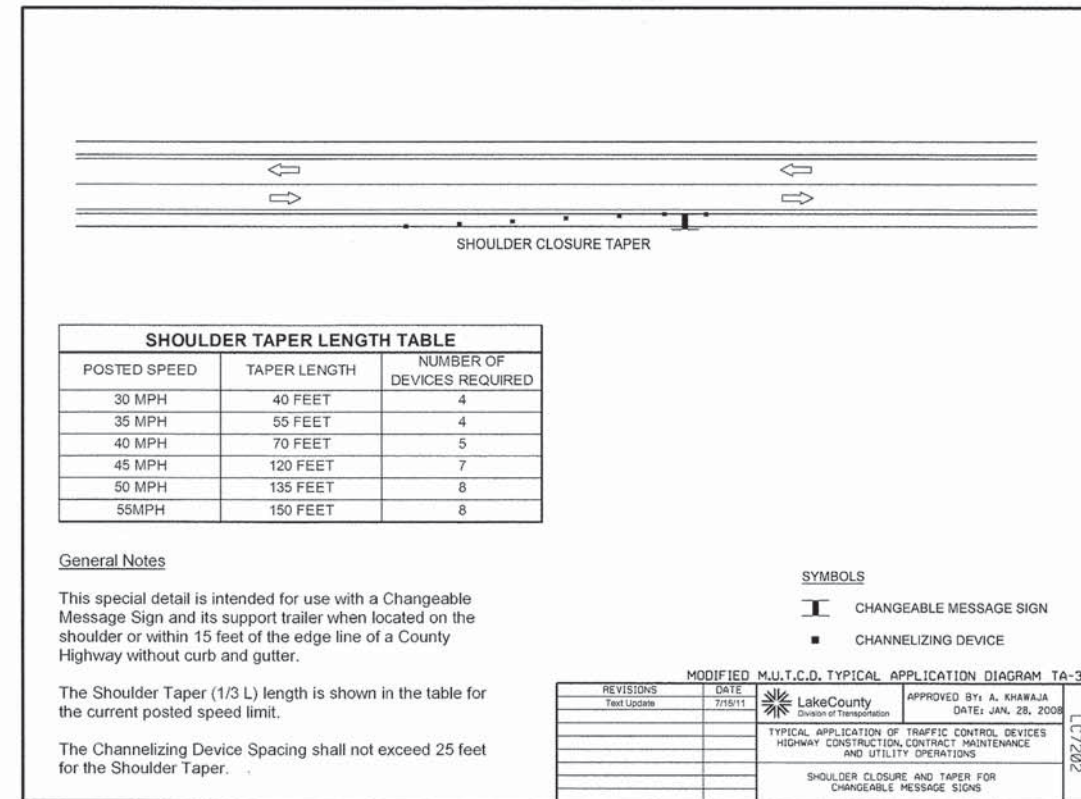
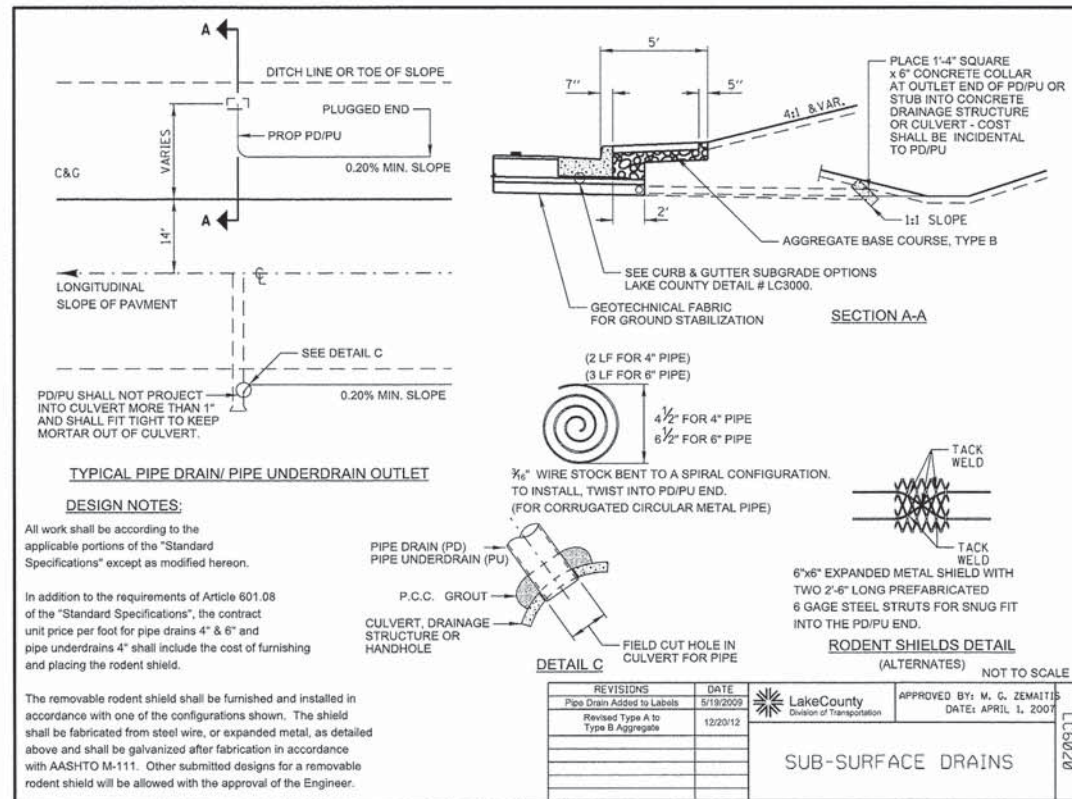
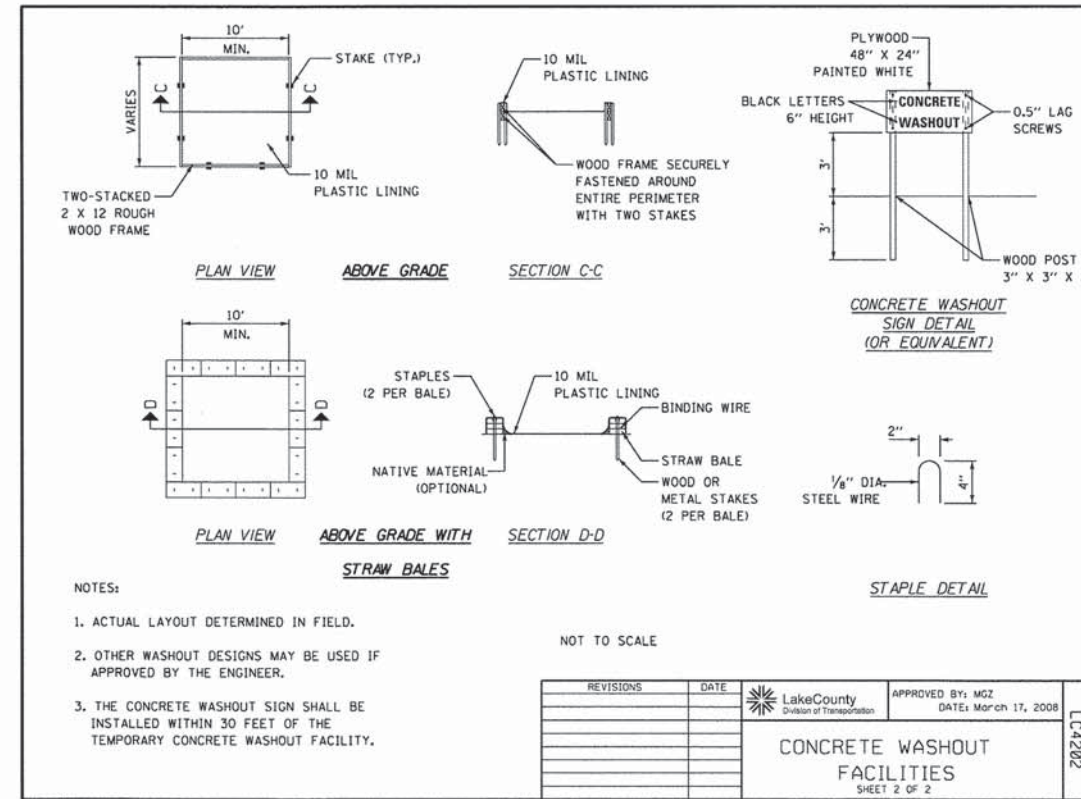
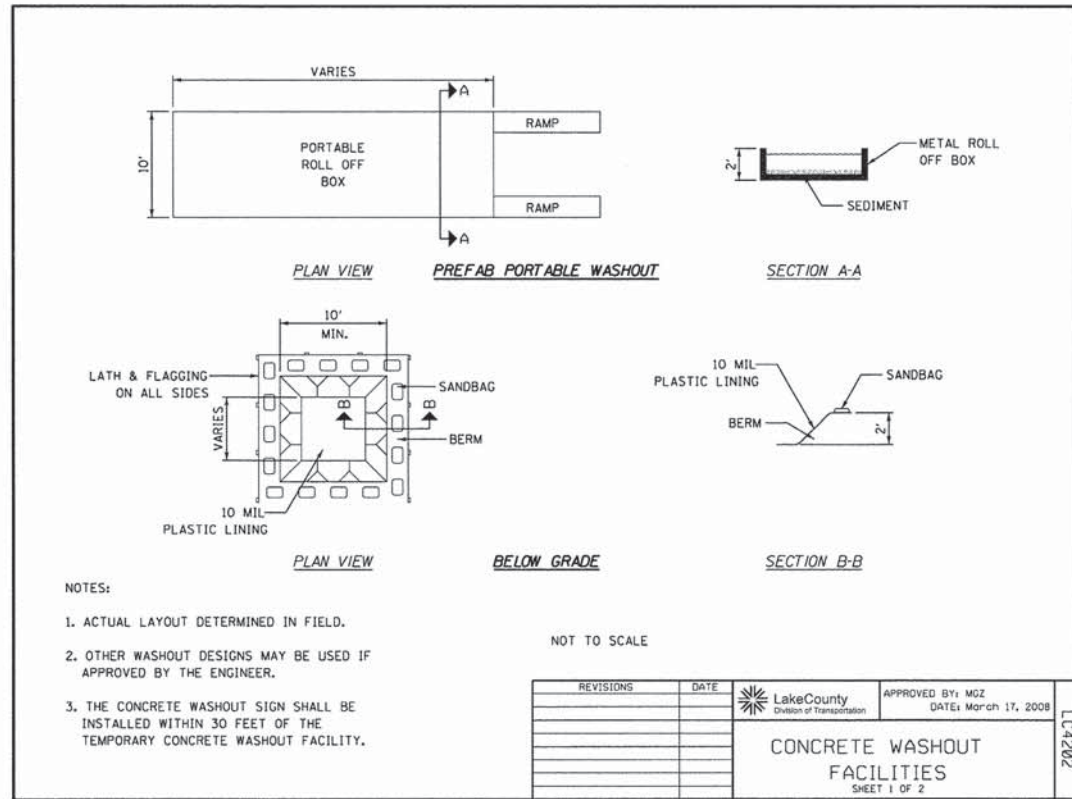
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LAKE COUNTY DIVISION OF TRANSPORTATION DETAILS  
 WILSON ROAD UNDERPASS**

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

F.A.U. RTE. 178	SECTION 14-F3000-02-BT	COUNTY LAKE	TOTAL SHEETS 165	SHEET NO. 72
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		CONTRACT NO. 63808		





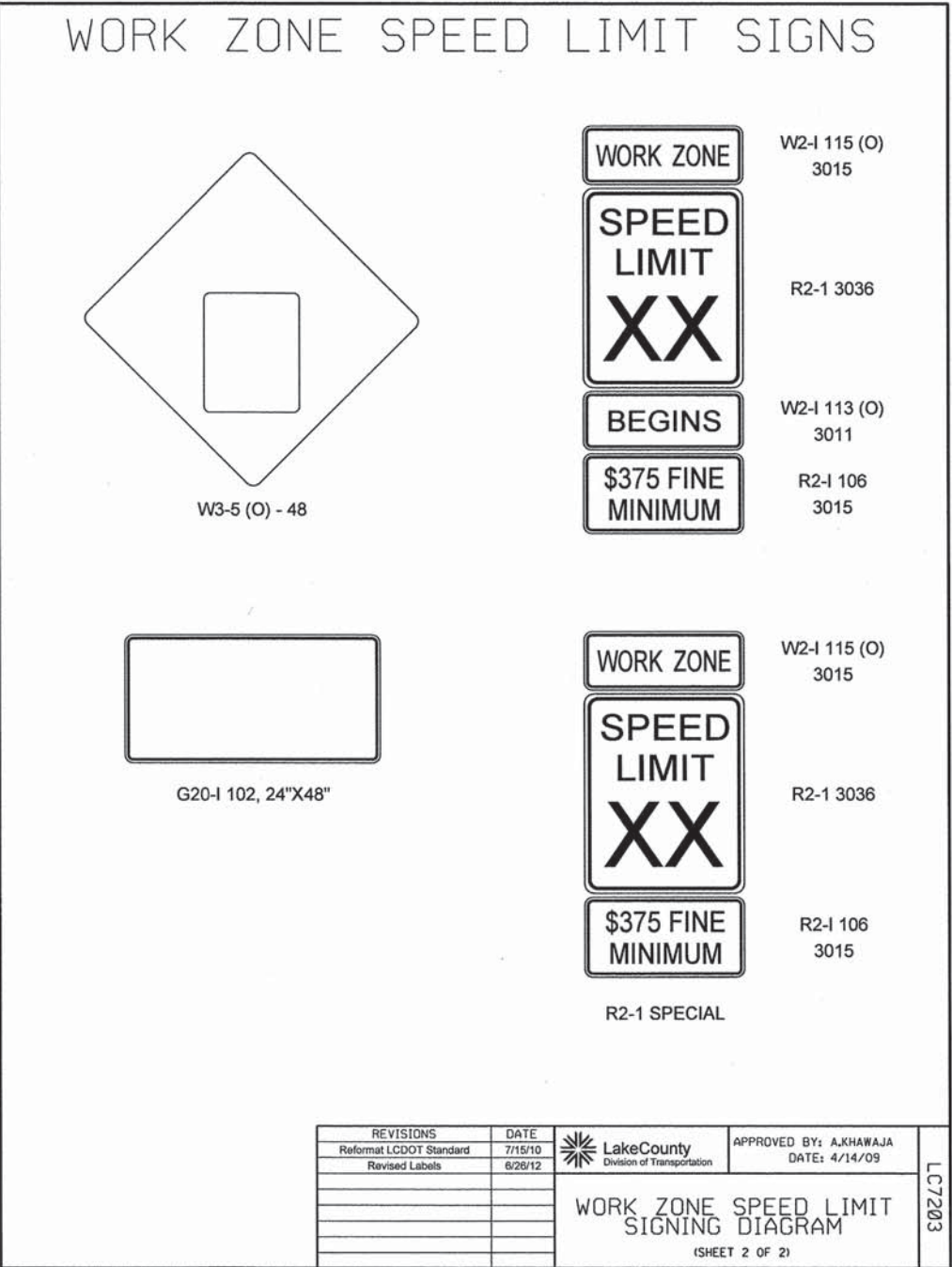
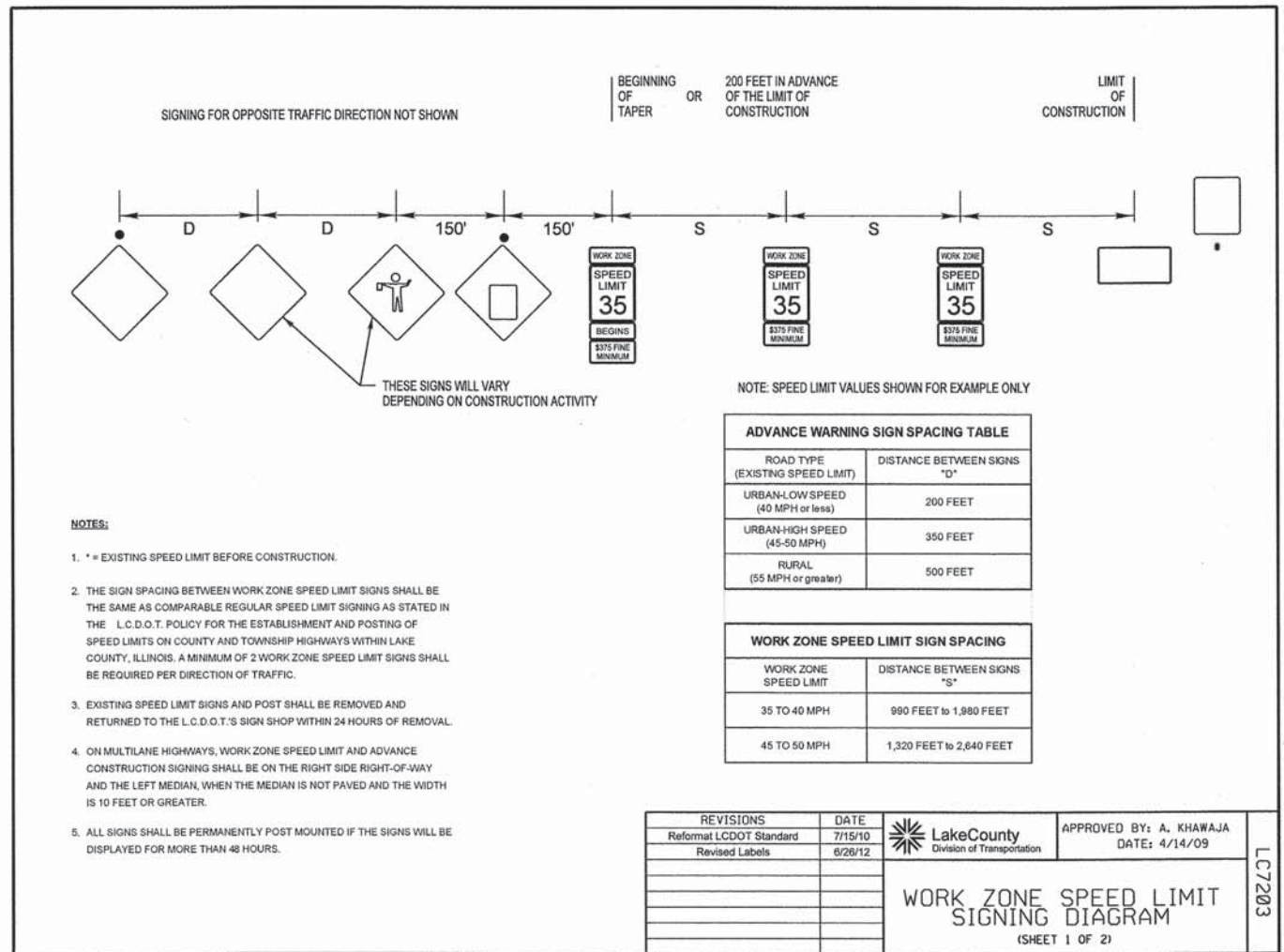
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DRAWN	CHECKED	REVISED
	-	-
DATE	DATE	REVISED
3/21/2014	3/21/2014	-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	73

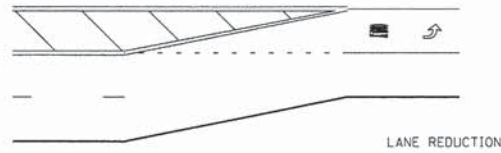
CONTRACT NO. 63808

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

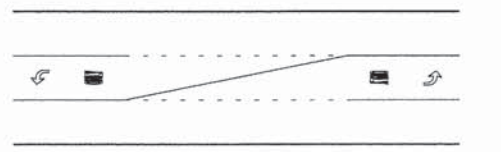


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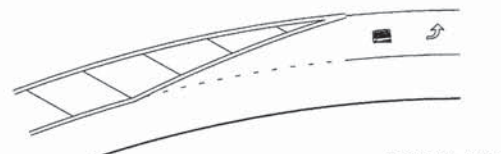
TYPICAL MINI-SKIP PAVEMENT MARKINGS



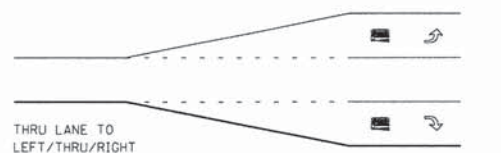
LANE REDUCTION



DOUBLE TAPER



TURN BAY ON CURVE

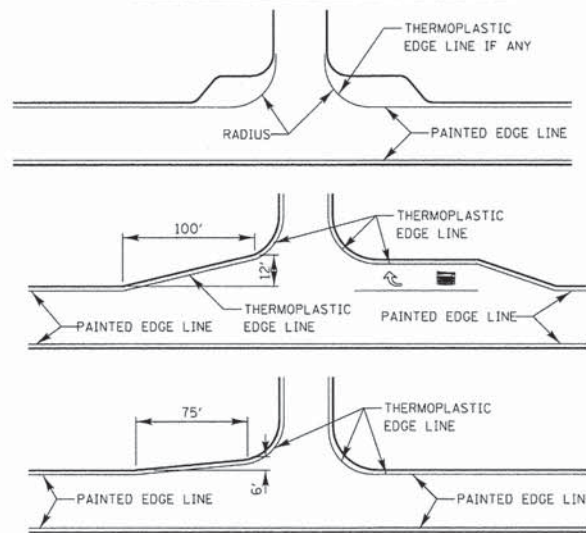


THRU LANE TO LEFT/THRU/RIGHT

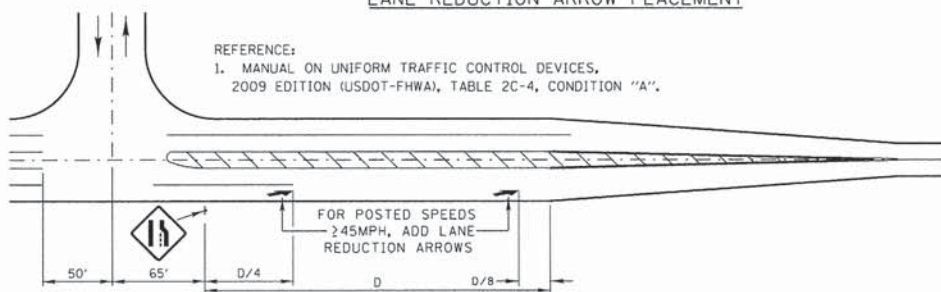
MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE, IT EXTENDS.

TYPICAL PAVEMENT MARKINGS

EDGE LINE RADII AT SIDE STREETS

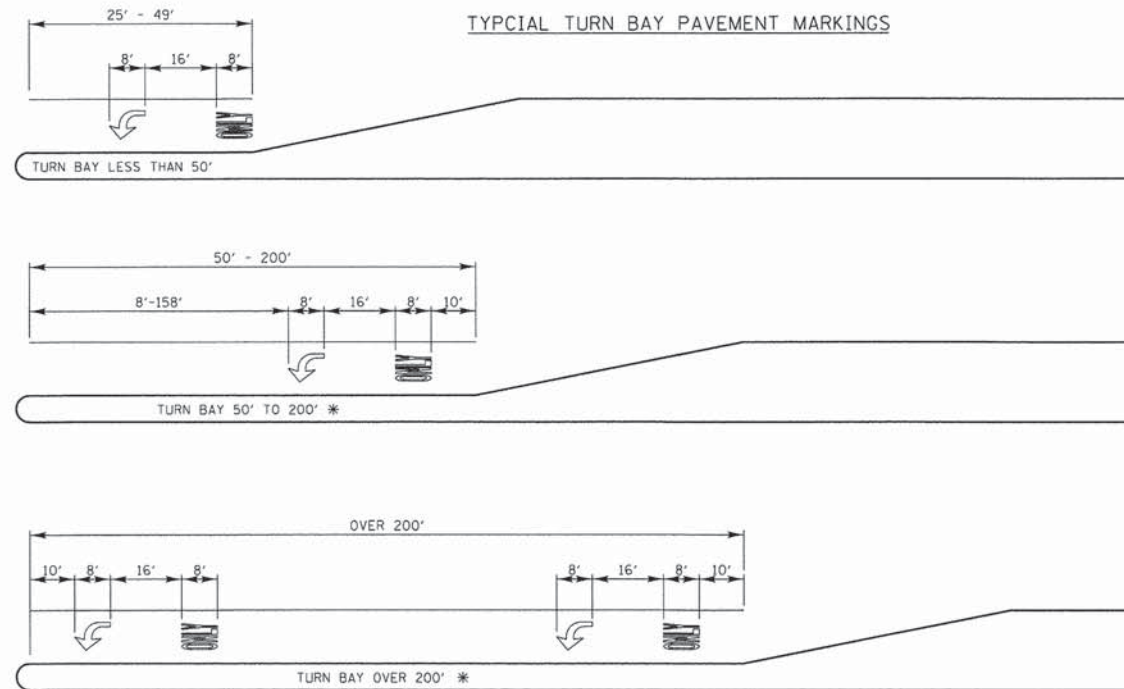


LANE REDUCTION ARROW PLACEMENT



DESIGN SPEED MPH	D (FEET)
<45	N/A
45	775' [1]
50	885' [1]
55	990' [1]

TYPICAL TURN BAY PAVEMENT MARKINGS



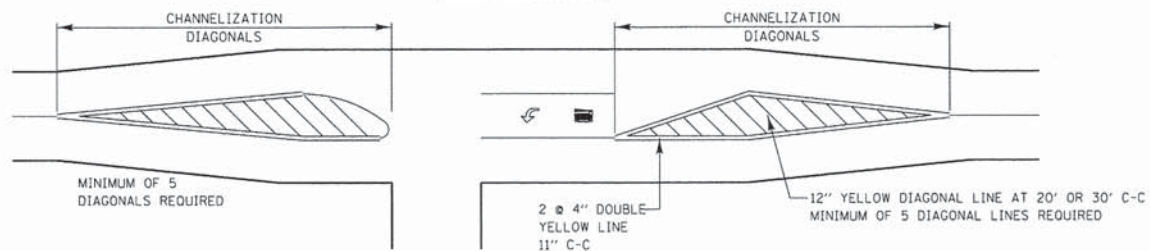
\* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

AREA = 20.8 SQ. FT.

FULL SIZE LETTERS (8") AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

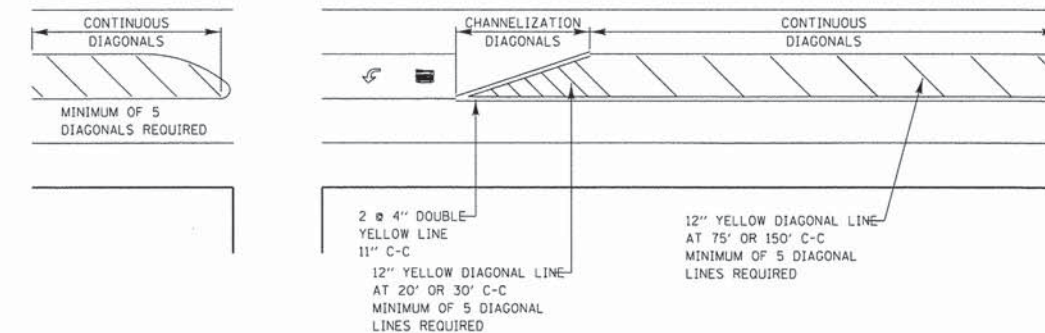
TWO LANE ROAD



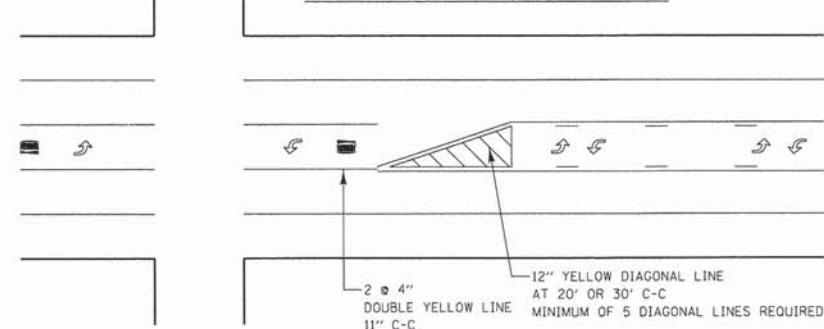
TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

3 OR 5 LANE ROAD



TWO-WAY LEFT TO LEFT TURN BAY



DUAL LEFT TURN ARROWS



A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/1/12



APPROVED BY: A. KHAWAJA  
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS  
SHEET 1 OF 2

NO.	DESCRIPTION	DATE	BY	SURVEYOR:	DSCR/LIAISON:	PLOTTED BY:

FILE NAME: N:\PROJ\0020087.01\0.Wilson\Design\Details\LC001\0020087.01-Det.LC00104.dgn

**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME	DESIGNED	REVISIONS
ntumbav	-	-
	DRAWN	REVISIONS
	-	-
	CHECKED	REVISIONS
	-	-
	DATE	REVISIONS
	3/21/2014	-

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



PROJECT NAME	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
LAKE COUNTY STANDARDS & DETAILS					

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	75

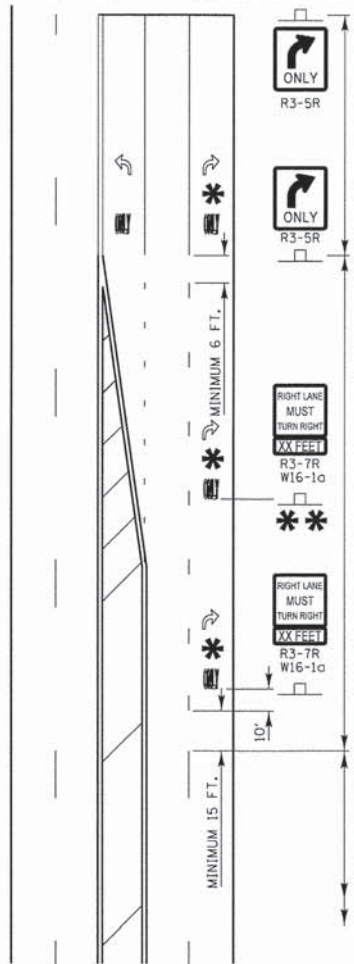
CONTRACT NO. 63808  
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

FILE NAME: N:\PROJ\0020087.01\0.Wilson\Design\Details\LC001\0020087.01-Det.LC00104.dgn

LC7800

# TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS

## THRU LANE TO TURN LANE CONVERSION



TURN LANE  
6" WHITE LINE  
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN  
ON SHEET ONE OF THE I.C.D.O.T TYPICAL  
PAVEMENT MARKINGS DETAIL SHEETS)

TRANSITION ZONE  
6" WHITE 3'/12' SKIP DASH  
LANE LINE

THRU LANE  
4" WHITE 10'/30' SKIP DASH  
LANE LINE

### MINIMUM TRANSITION ZONE LENGTH

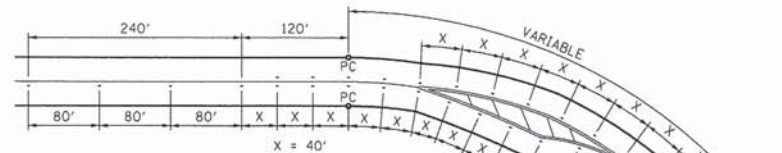
POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

### \* LOCATION OF PAV'T MARKINGS

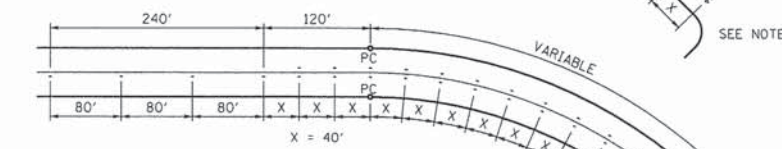
(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

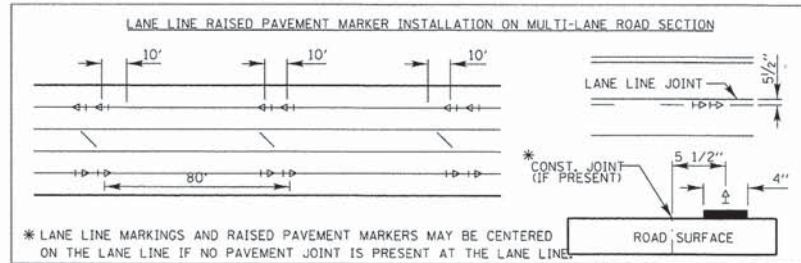
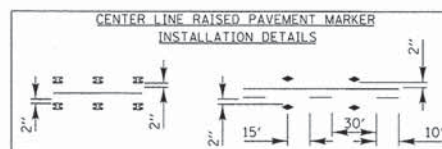
\*\* FOR POSTED SPEEDS 40 M.P.H. OR GREATER  
A SECOND R3-7/W16-1c SIGN INSTALLATION  
SHALL BE LOCATED HALFWAY BETWEEN THE  
BEGINNING OF THE TRANSITION ZONE AND THE  
BEGINNING OF THE TURN LANE



### TYPICAL RAISED PAVEMENT MARKER INSTALLATION

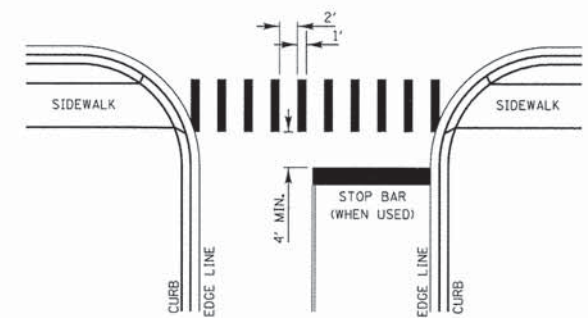


RAISED PAVEMENT MARKER LEGEND  
 ☒ OR ◀ RAISED PAVEMENT MARKER, DOUBLE YELLOW  
 ◀ RAISED PAVEMENT MARKER, WHITE AND RED



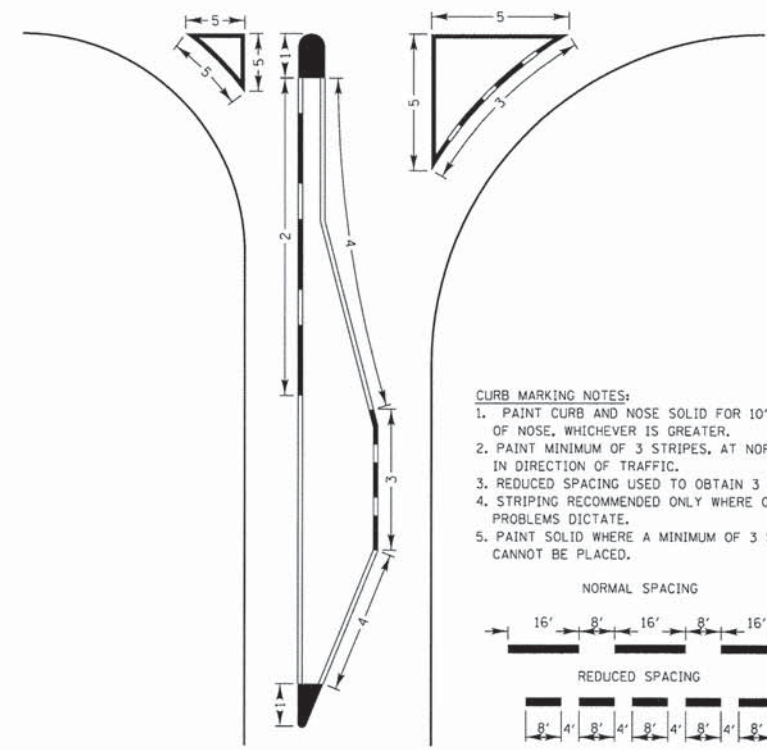
- RAISED PAVEMENT MARKER NOTES:**
- CENTERLINE RAISED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
  - SPACING = 40' FOR CENTERLINE MARKERS.
  - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
  - MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH F.H.W.A. MEMORANDUM H10-21.
  - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
  - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
  - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
  - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM'S SHALL BE INSTALLED IN PAIRS AND SHALL BE 80' CENTER TO CENTER, SPACING WITHIN EACH PAIR SHALL BE 10', CENTERED WITHIN THE 30' SKIP.

## CROSSWALKS



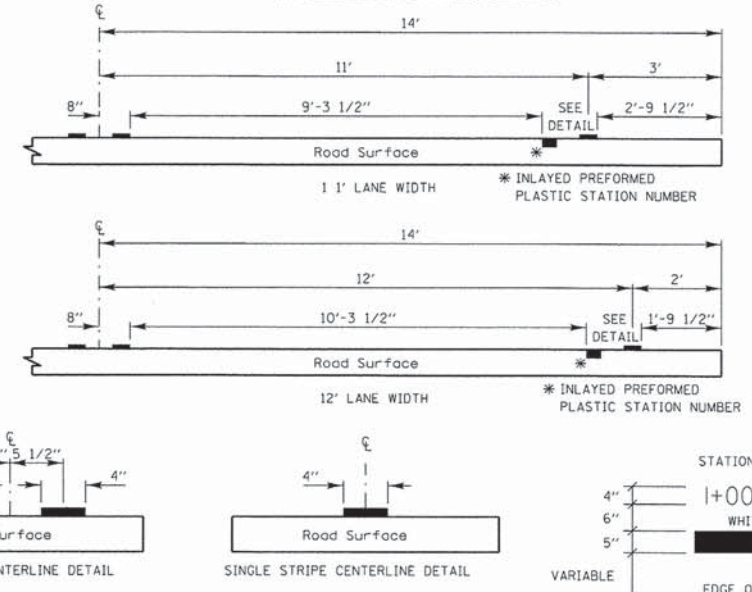
- CROSSWALK NOTES:**
- WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS, WHICH CAN BE 8'.
  - THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

## CURB MARKING



- CURB MARKING NOTES:**
- PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
  - PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
  - REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
  - STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
  - PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

## PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID	YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 1 1/2 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	1 1 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 20.8 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
CROSSWALK	12 IN. @ 90%	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. & 11 IN. C-C 12 IN. DIAGONALS @ 45% NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW: 2-WAY TRAFFIC WHITE: 1-WAY TRAFFIC	1 1/2 IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
CORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45%	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE I.D.O.T. STD. 780001 50 FT. AREA OF: "R" = 3.6 SQ. FT. / "R" "X" = 54.0 SQ. FT.
SHOULDER DIAGONALS	12 IN. @ 45%	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE LATEST I.D.O.T. HIGHWAY STANDARD 780001.

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: A. KHAWAJA
SEPARATED RAILROAD SHEET	06/02/08		DATE: APRIL 1, 2007
REVISED RPM DETAILS	07/1/12	TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS SHEET 2 OF 2	

FILE NAME: N:\PROJ\0020087.01\Wilson\Design\Details\CDOT\0020087.01-Det.LC00T05.dgn

REVISIONS / REMARKS NO. DESCRIPTION DATE BY SURVEYOR: / DSGNR/LIAISON: / PLOTTED BY: @USRN@*DAT****	USER NAME = nthumb DESIGNED - / DRAWN - / CHECKED - / DATE - 3/21/2014 DESIGNED - / REVISED - / REVISED - / REVISED - / REVISED -	PROJECT NAME LAKE COUNTY STANDARDS & DETAILS	ROUTE SECTION SECTION NUMBER SHEET SHEETS 178 14-F3000-02-BT 165 76
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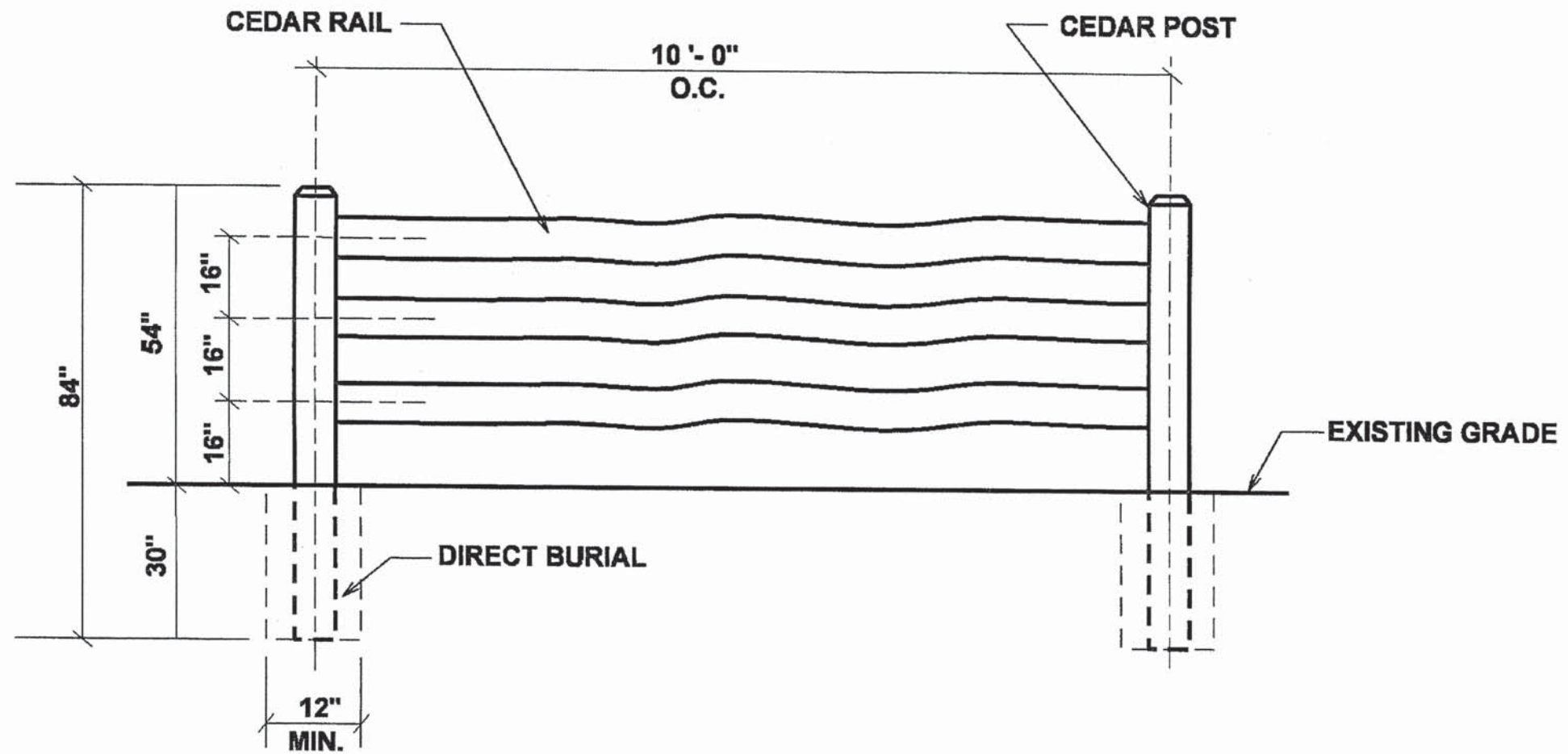
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION DETAILS WILSON ROAD UNDERPASS

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

F.A.U. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. 178 14-F3000-02-BT LAKE 165 76 CONTRACT NO. 63808

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



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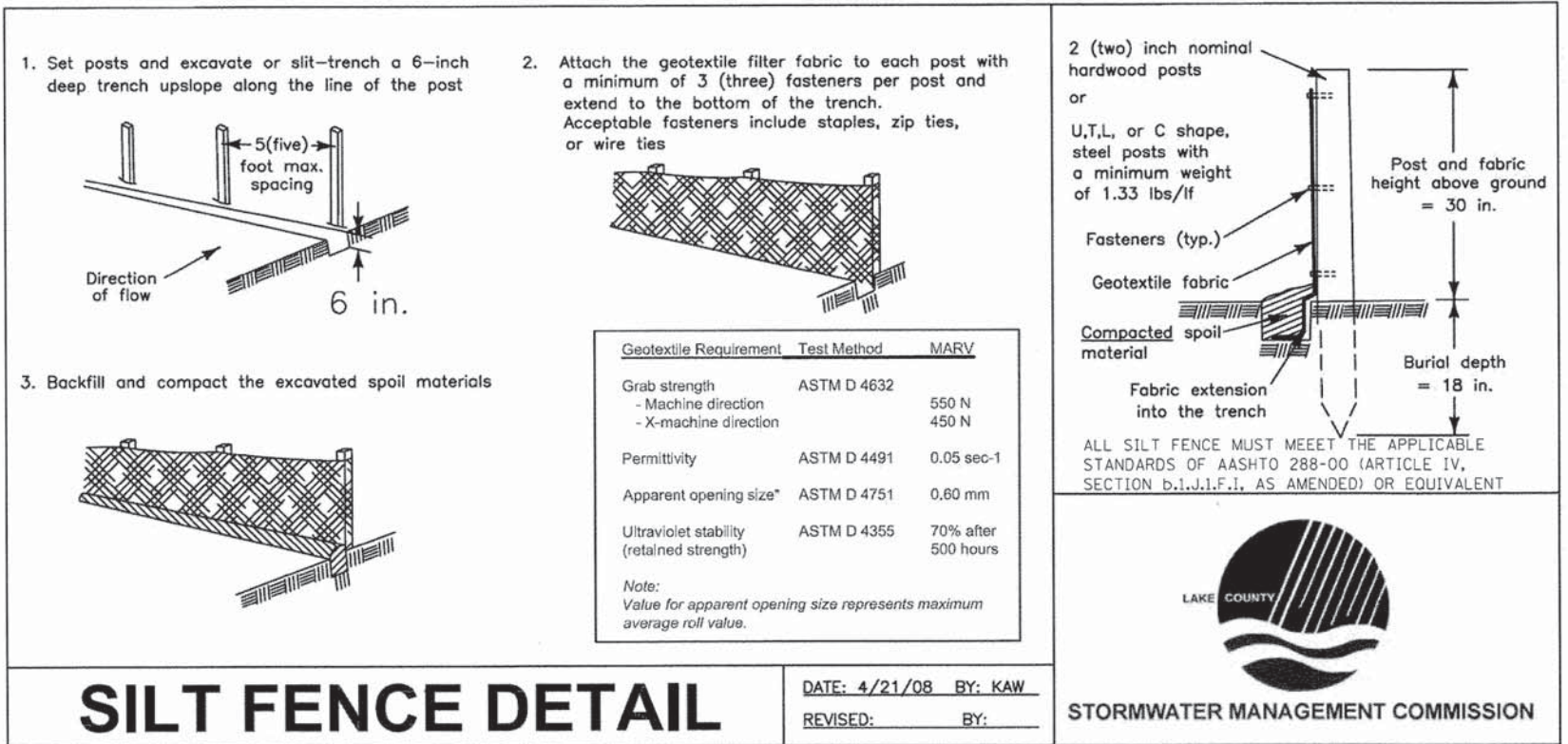
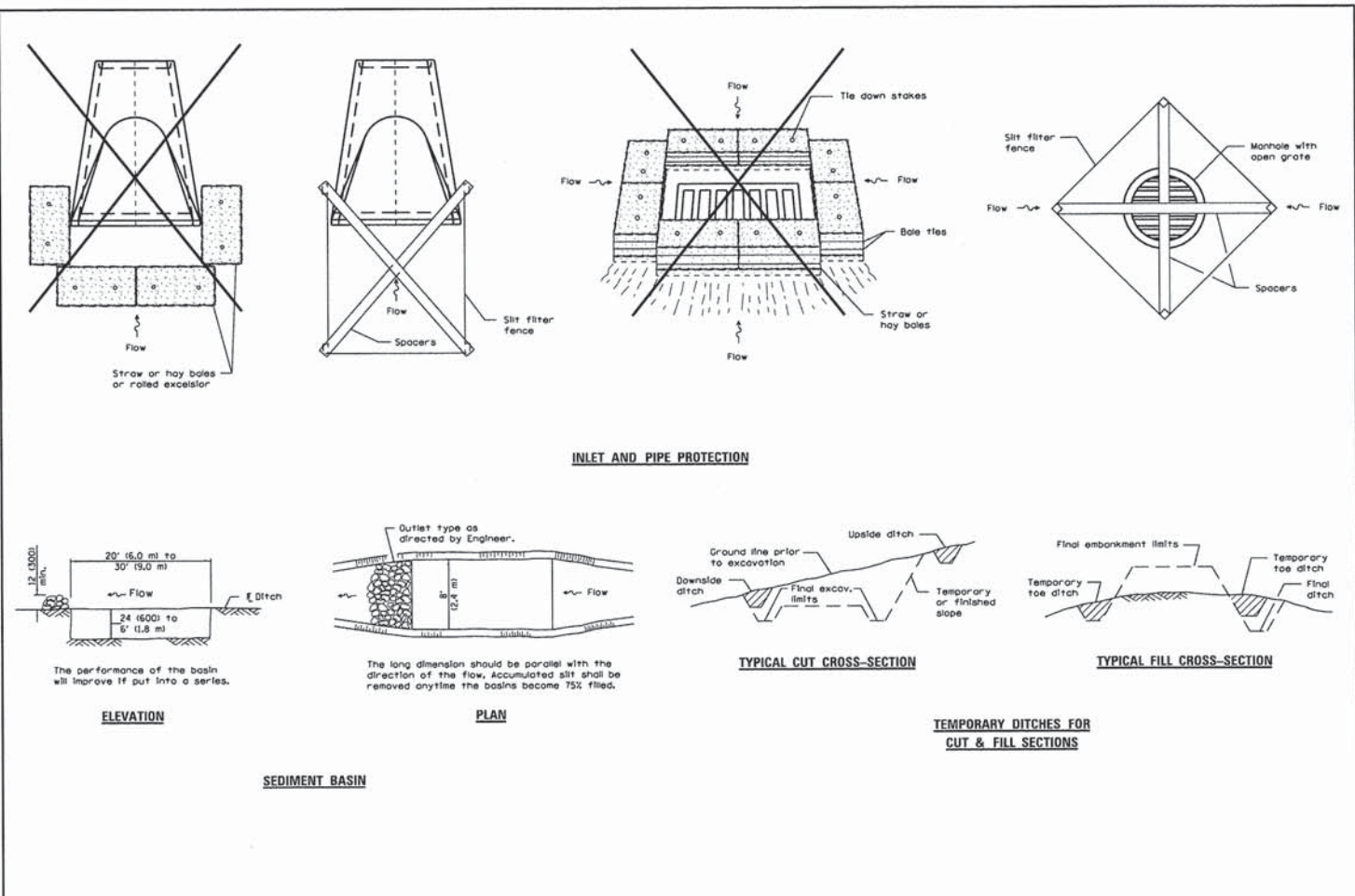
**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

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	DRAWN -	REVISED -
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PLDT DATE = 3/24/2014	DATE = 3/24/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>FENCE DETAILS    WILSON ROAD UNDERPASS</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	77
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



# SILT FENCE DETAIL

DATE: 4/21/08 BY: KAW  
 REVISED: BY:



FILE NAME = N:\PROJ\0220867\01\08\_Wilson\_Design\Detail\0220867\_01\_erosfil.dgn

**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = nctumbv	DESIGNED -	REVISED -
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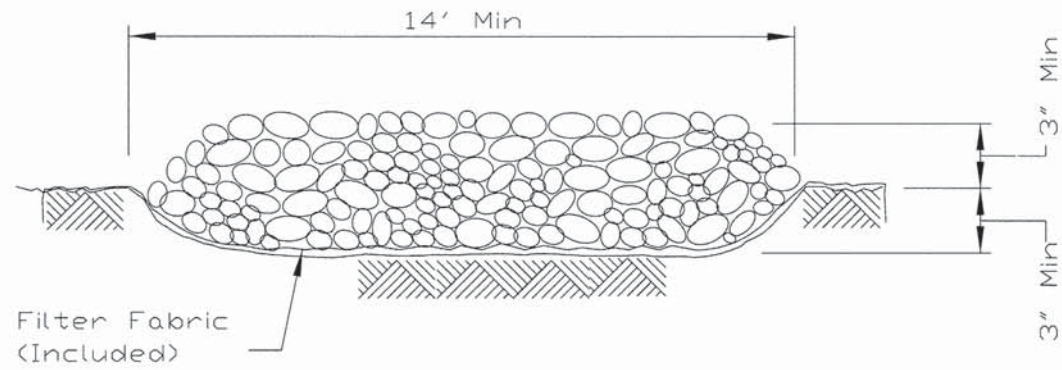
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY EROSION CONTROL SYSTEMS DETAIL  
 WILSON ROAD UNDERPASS**

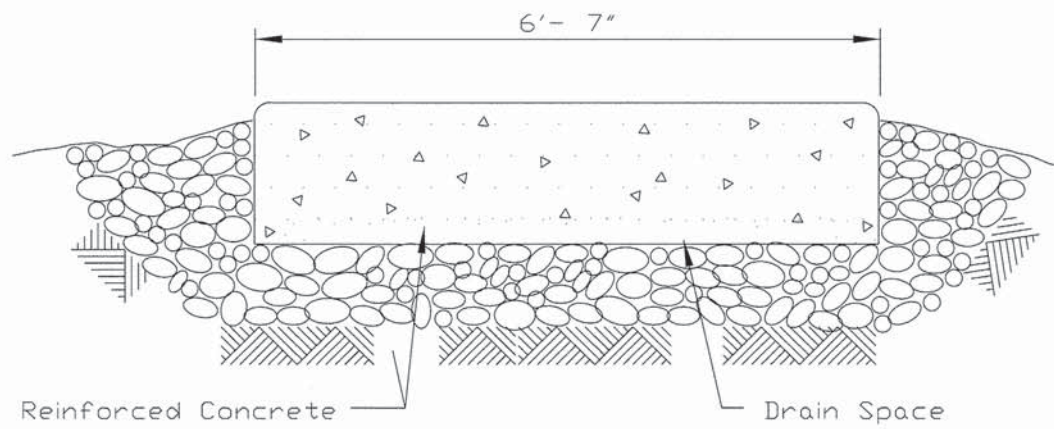
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	78
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

# STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



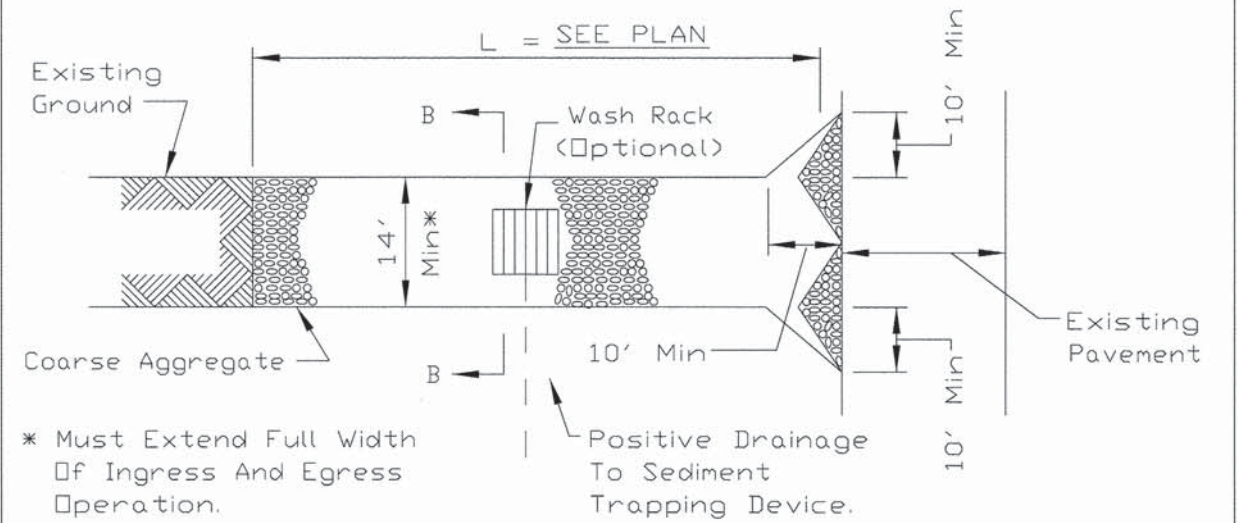
SECTION B-B

REFERENCE  
 Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_

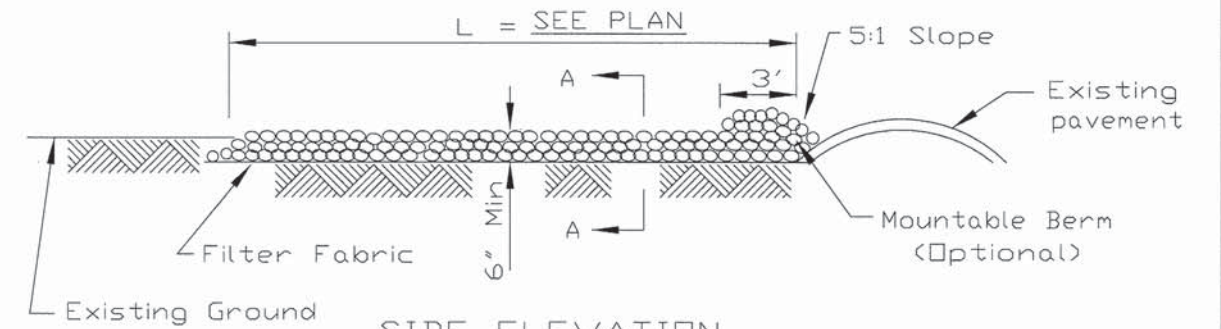


STANDARD DWG. NO.  
 IL-630  
 SHEET 2 OF 2  
 DATE 8-18-94

# STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE  
 Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_



STANDARD DWG. NO.  
 IL-630  
 SHEET 1 OF 2  
 DATE 8-18-94

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**Ciorba Group, Inc.**  
 CONSULTING ENGINEERS  
 5507 North Cumberland Avenue, Suite 402  
 Chicago, Illinois 60656  
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = ntumbv	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

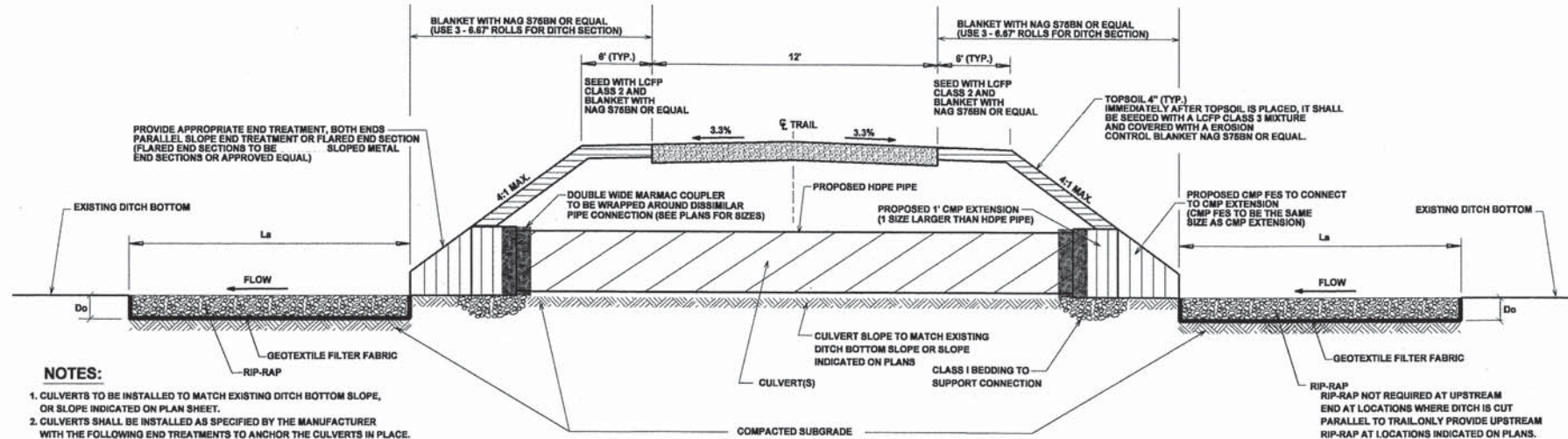
**STABILIZED CONSTRUCTION ENTRANCE DETAIL  
 WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	79
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



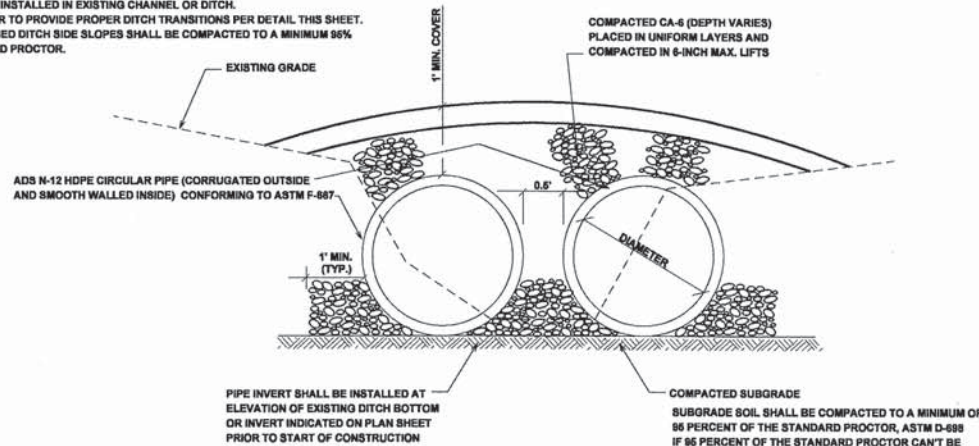




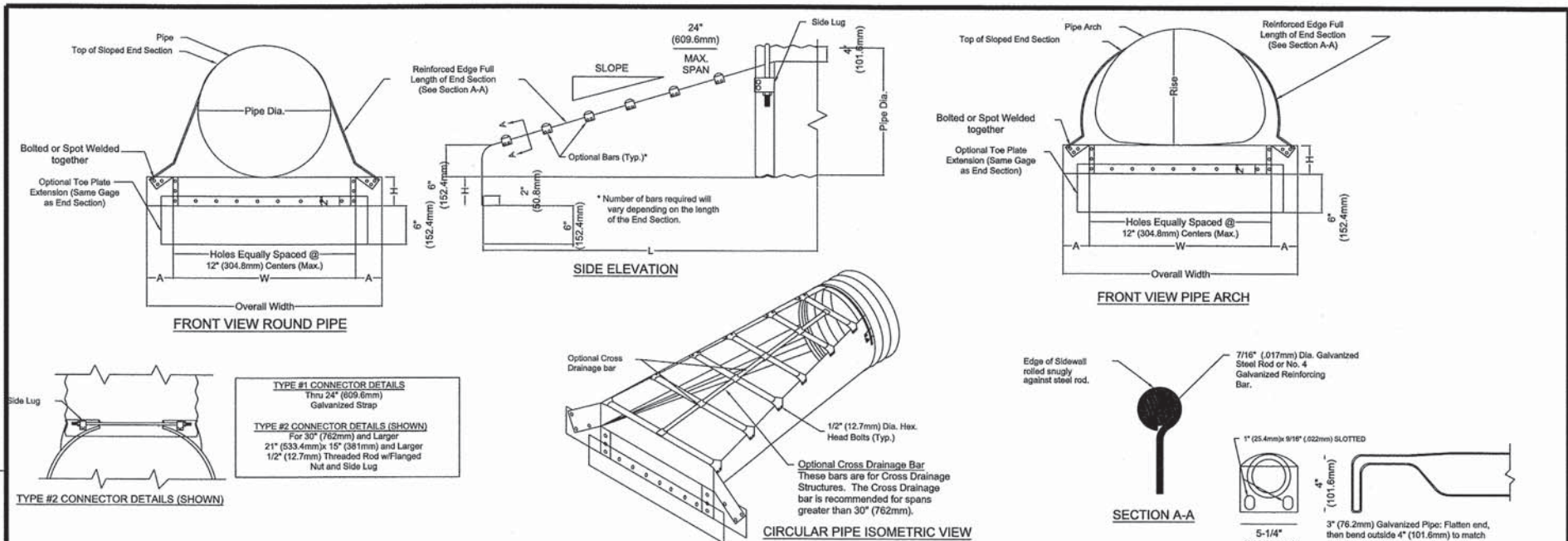
**NOTES:**

- CULVERTS TO BE INSTALLED TO MATCH EXISTING DITCH BOTTOM SLOPE, OR SLOPE INDICATED ON PLAN SHEET.
- CULVERTS SHALL BE INSTALLED AS SPECIFIED BY THE MANUFACTURER WITH THE FOLLOWING END TREATMENTS TO ANCHOR THE CULVERTS IN PLACE.
  - BOX CULVERTS SHALL BE INSTALLED WITH APPROPRIATE PARALLEL SLOPE END TREATMENT.
  - CIRCULAR PIPE SHALL BE INSTALLED WITH APPROPRIATE FLARED END SECTION.
- JOINTS FOR CONCRETE PIPE SHALL TYPICALLY BE A TROWEL APPLIED BITUMINOUS MASTIC COMPOUND IN ACCORDANCE WITH ASTM C-78.
- JOINTS FOR HOPE PIPE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
- RIP-RAP SHALL BE INSTALLED AT THE UPSTREAM AND DOWNSTREAM END OF CULVERT(S) INSTALLED IN EXISTING CHANNEL OR DITCH.
- CONTRACTOR TO PROVIDE PROPER DITCH TRANSITIONS PER DETAIL THIS SHEET. ALL DISTURBED DITCH SIDE SLOPES SHALL BE COMPACTED TO A MINIMUM 96% OF STANDARD PROCTOR.

SUBGRADE SOIL SHALL BE COMPACTED TO A MINIMUM OF 96 PERCENT OF THE STANDARD PROCTOR, ASTM D-698 IF 96 PERCENT OF THE STANDARD PROCTOR CAN'T BE ACHIEVED OR IF UNSTABLE OR UNSUITABLE SOIL IS ENCOUNTERED, IT SHALL BE REMOVED AND REPLACED WITH CA-6, AS NECESSARY, TO MATCH EXISTING DITCH BOTTOM SLOPE BEFORE CULVERT(S) IS/ARE INSTALLED. THE CA-6 MATERIAL, IF REQUIRED, SHALL BE PLACED IN UNIFORM LAYERS AND COMPACTED IN 6-INCH MAX. LIFTS.



# TRAIL CULVERT CROSSING



**METAL END SECTIONS FOR ROUND PIPE**

Pipe Dia. (in.)	Min. Thick (in.)	Dimensions (inches)				L Dimensions				
		Gage	A	H	W	Overall width	Slope	Length (in.)	Slope	Length (in.)
15	.064	16	8	6	21	37	6:1	30	4:1	20
18	.064	16	8	6	24	40	6:1	48	4:1	32
21	.064	16	8	6	27	43	6:1	66	4:1	44
24	.064	16	8	6	30	46	6:1	84	4:1	56
30	.109	12	12	9	36	60	6:1	120	4:1	80

**METAL END SECTIONS FOR ROUND PIPE**

Pipe Dia. (mm)	Min. Thick (mm)	Dimensions (mm)				L Dimensions				
		Gage	A	H	W	Overall width	Slope	Length (mm)	Slope	Length (mm)
381	1.626	16	203.2	152.4	533.4	939.8	6:1	762	4:1	508
457.2	1.626	16	203.2	152.4	609.6	1016	6:1	1219.2	4:1	812.8
533.4	1.626	16	203.2	152.4	685.8	1092.2	6:1	1676.4	4:1	1117.6
609.6	1.626	16	203.2	152.4	762	1168.4	6:1	2133.6	4:1	1422.4
762	2.769	12	304.8	228.6	914.4	1524	6:1	3048	4:1	2032

**METAL END SECTIONS FOR PIPE ARCH**

Equip. Dia. (in.)	span (in.)	rise (in.)	Min. Thick (in.)	Dimensions (inches)				L Dimensions				
				Gage	A	H	W	Overall width	Slope	Length (in.)	Slope	Length (in.)
18	21	15	.064	16	8	6	27	43	6:1	30	4:1	20
21	24	18	.064	16	8	6	30	46	6:1	48	4:1	32
24	28	20	.064	16	8	6	34	50	6:1	60	4:1	40
30	36	24	.079	14	12	9	41	65	6:1	84	4:1	56
36	42	29	.109	12	12	9	48	72	6:1	114	4:1	76

**METAL END SECTIONS FOR PIPE ARCH**

Equip. Dia. (mm)	span (mm)	rise (mm)	Min. Thick (mm)	Dimensions (mm)				L Dimensions				
				Gage	A	H	W	Overall width	Slope	Length (mm)	Slope	Length (mm)
457.2	533.4	381	1.626	16	203.2	152.4	685.8	1092.2	6:1	762	4:1	508
533.4	609.6	457.2	1.626	16	203.2	152.4	762	1168.4	6:1	1219.2	4:1	812.8
609.6	711.2	508	1.626	16	203.2	152.4	863.6	1270	6:1	1524	4:1	1016
762	914.4	609.6	2.007	14	304.8	228.6	1041.4	1651	6:1	2133.6	4:1	1422.4
914.4	1066.8	736.6	2.769	12	304.8	228.6	1219.2	1828.8	6:1	2895.6	4:1	1930.4

- GENERAL NOTES**
- CONNECTORS-Round sizes thru 24" (609.6mm) attach to pipe with Type #1 straps. All other sizes attach with Type #2 Rods and Lugs.
  - TOE PLATE EXTENSIONS-When required, toe plate extensions are to be the same gage as End Section. Dimensions shall be Overall Width less 6" (152.4mm) by 8" (203.2mm) high.
  - OPTIONAL BARS-Bars when specified, shall be Schedule 40 Galvanized Steel Pipe.
  - Typically parallel bars are placed on 24" (609.6mm) centers.
  - Typically the cross bars are used on cross drain applications.
  - Holes for bar attachments shall be provided on all end sections.
  - Dimensions are subject to manufacturing tolerances.
  - These end sections are produced to imperial units (inches), metric units are shown on this drawing for the convenience of some users.

**SLOPED END SECTIONS 4:1 & 6:1**

DRAWING DATE	REVISION DATE	DRAWING NUMBER
2-11-91	JWK 8/27/01	1008501B

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5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = espino	DESIGNED -	REVISED -
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PLOT DATE = 4/4/2014	CHECKED - TJP	REVISED -
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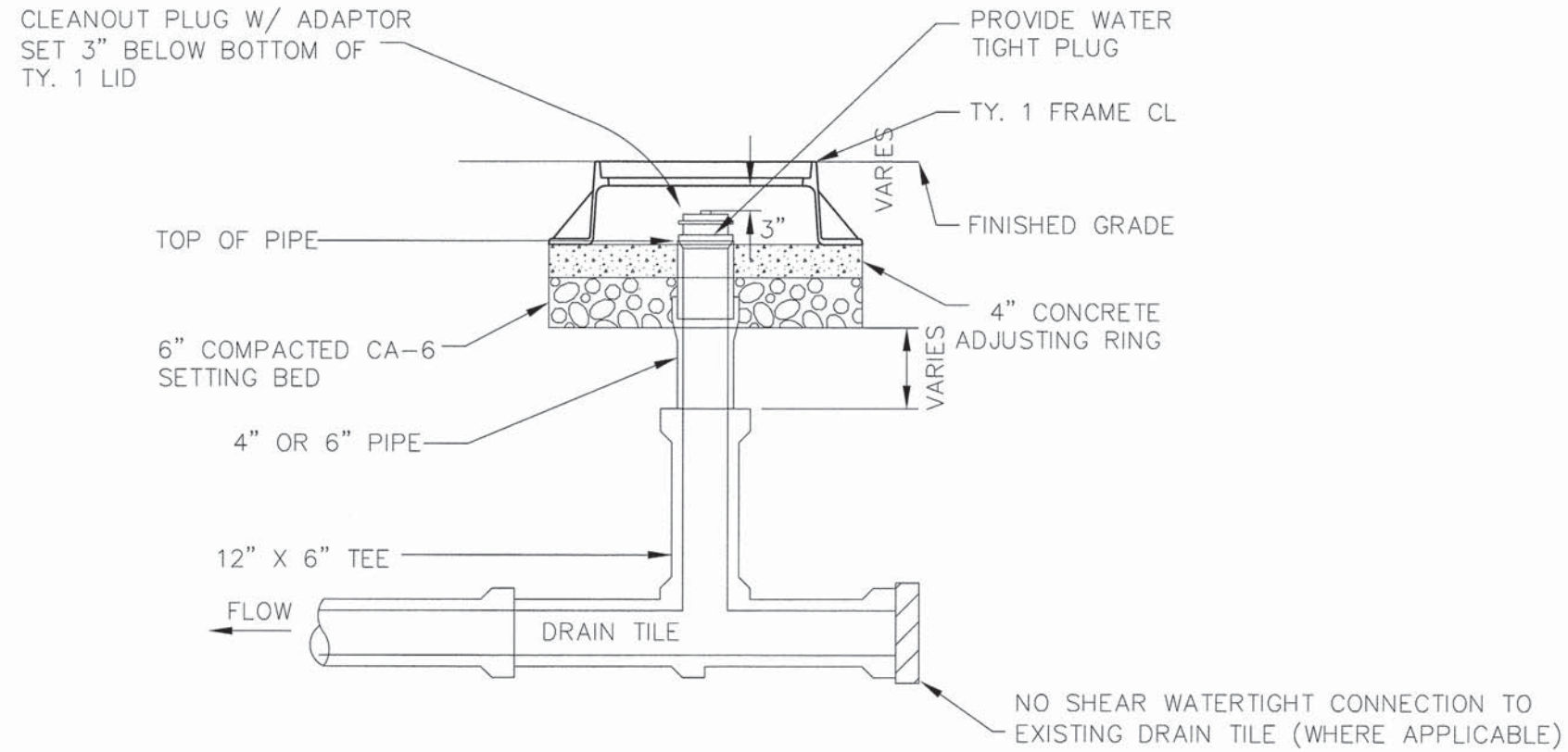
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT CROSSING & FES DETAIL**  
**WILSON ROAD UNDERPASS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	81
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 63808	

## OBSERVATION STRUCTURE



**NOTE:**  
THE CONTRACT UNIT PRICE FOR OBSERVATION STRUCTURE SHALL INCLUDE THE SERVICE LINE TEE, BENDS, CONNECTION TO EXISTING DRAIN TILE, REDUCER, BACKFILL, RISER PIPE ENCASEMENT, SETTING BED, AND ADJUSTING RING.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OBSERVATION STRUCTURE DETAIL  
WILSON ROAD UNDERPASS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	82
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

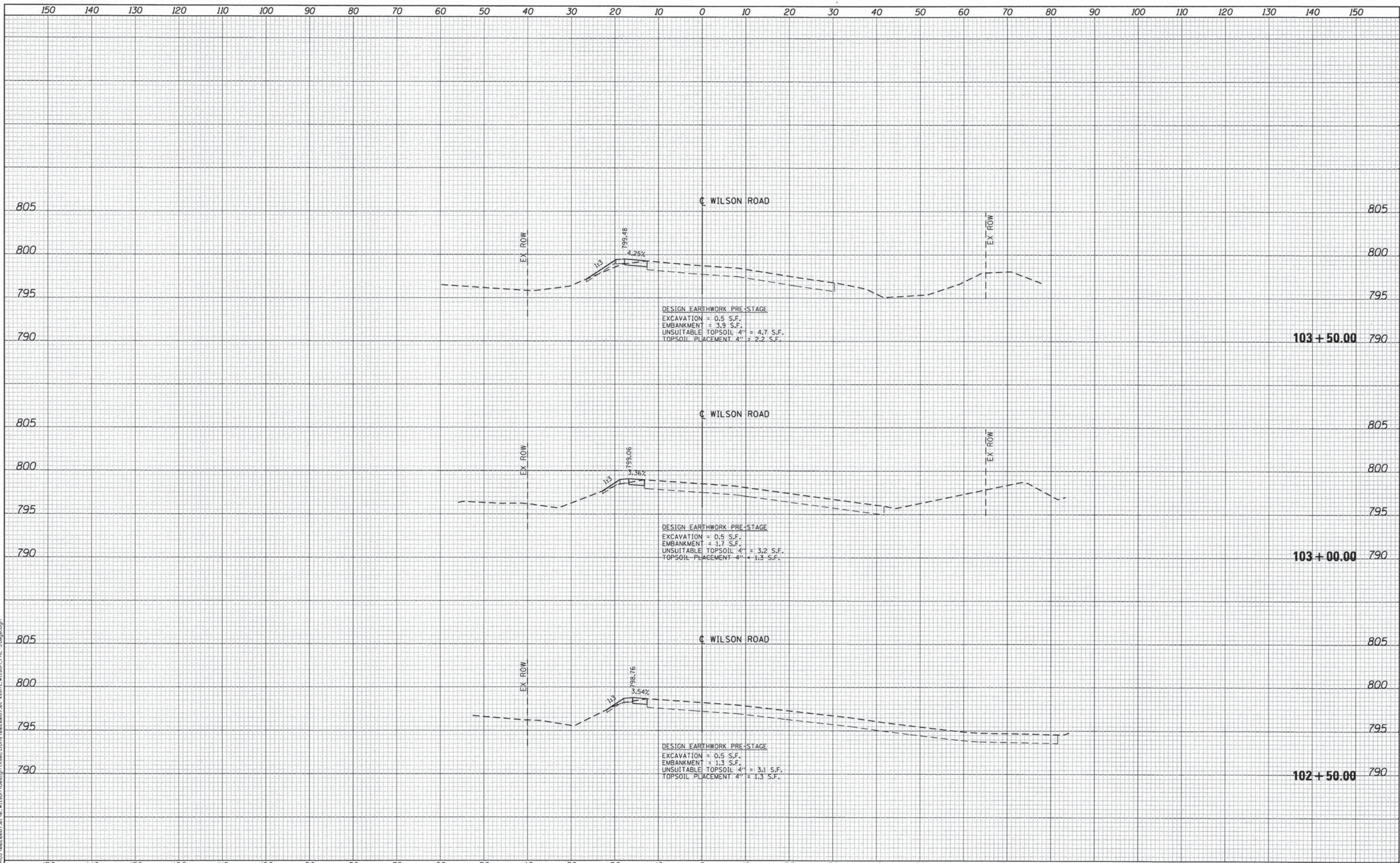
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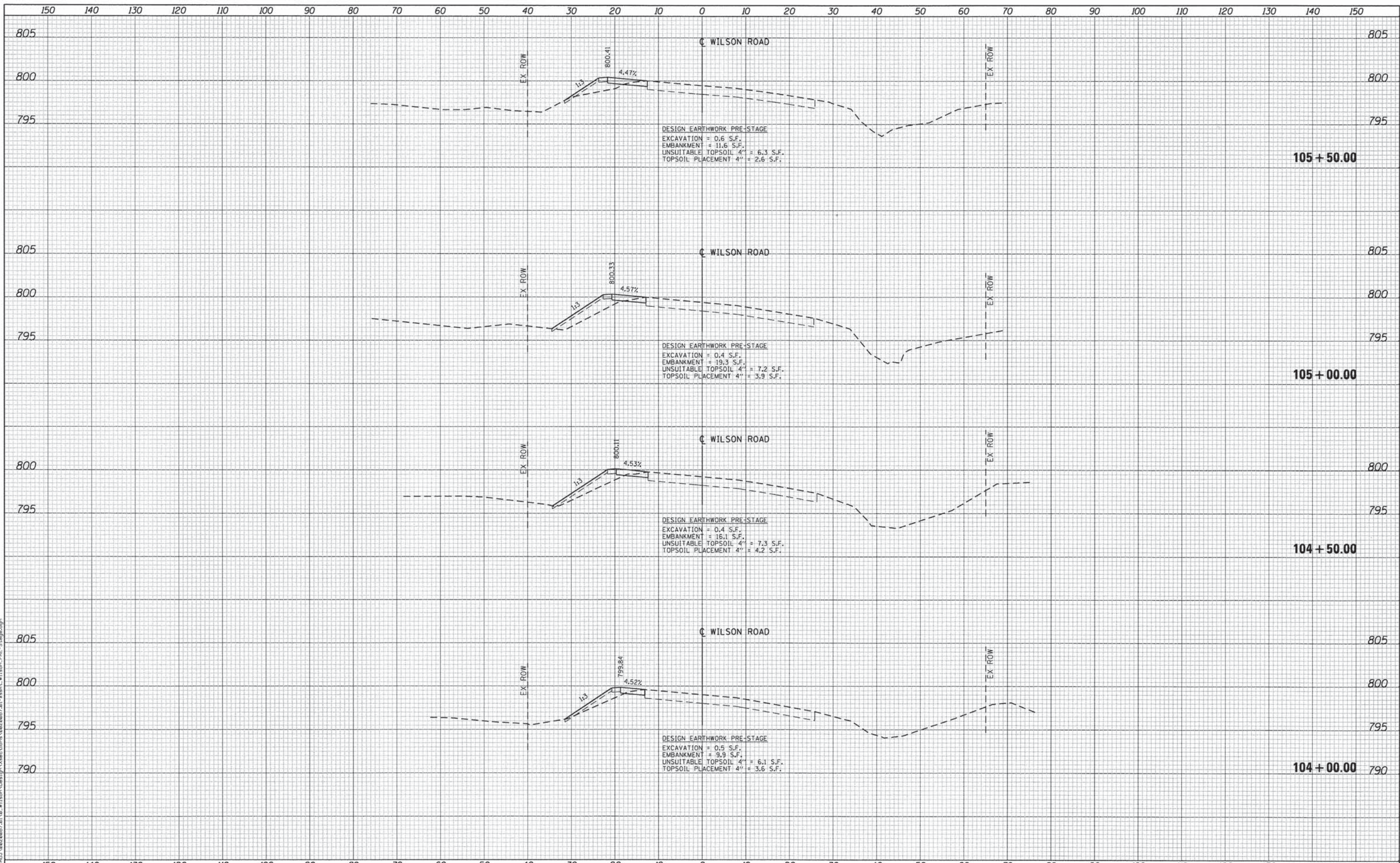
**Ciorba Group, Inc.**  
CONSULTING ENGINEERS  
5507 North Cumberland Avenue, Suite 402  
Chicago, Illinois 60656  
Tel. 773.775.4009 Fax 773.775.4014

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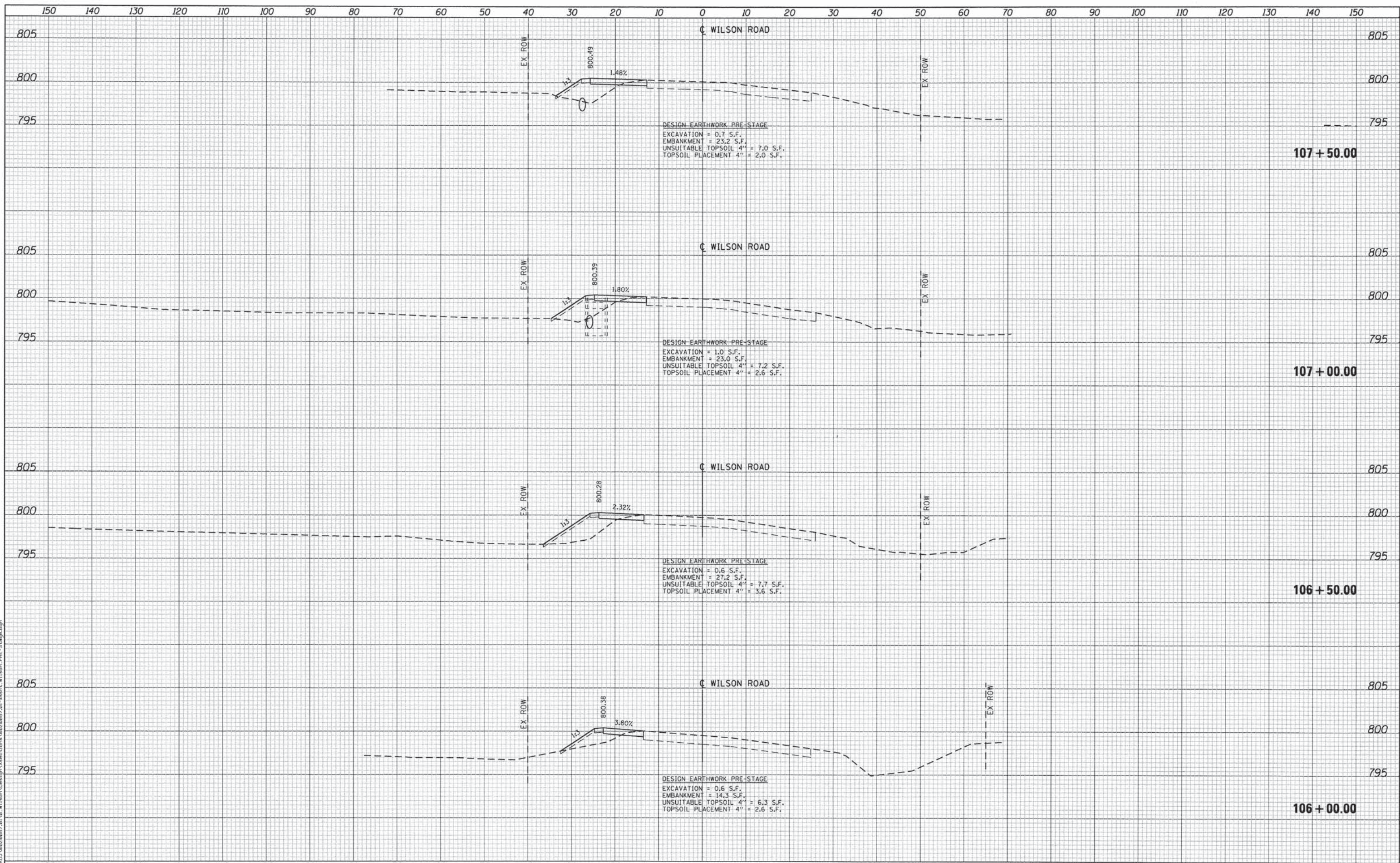




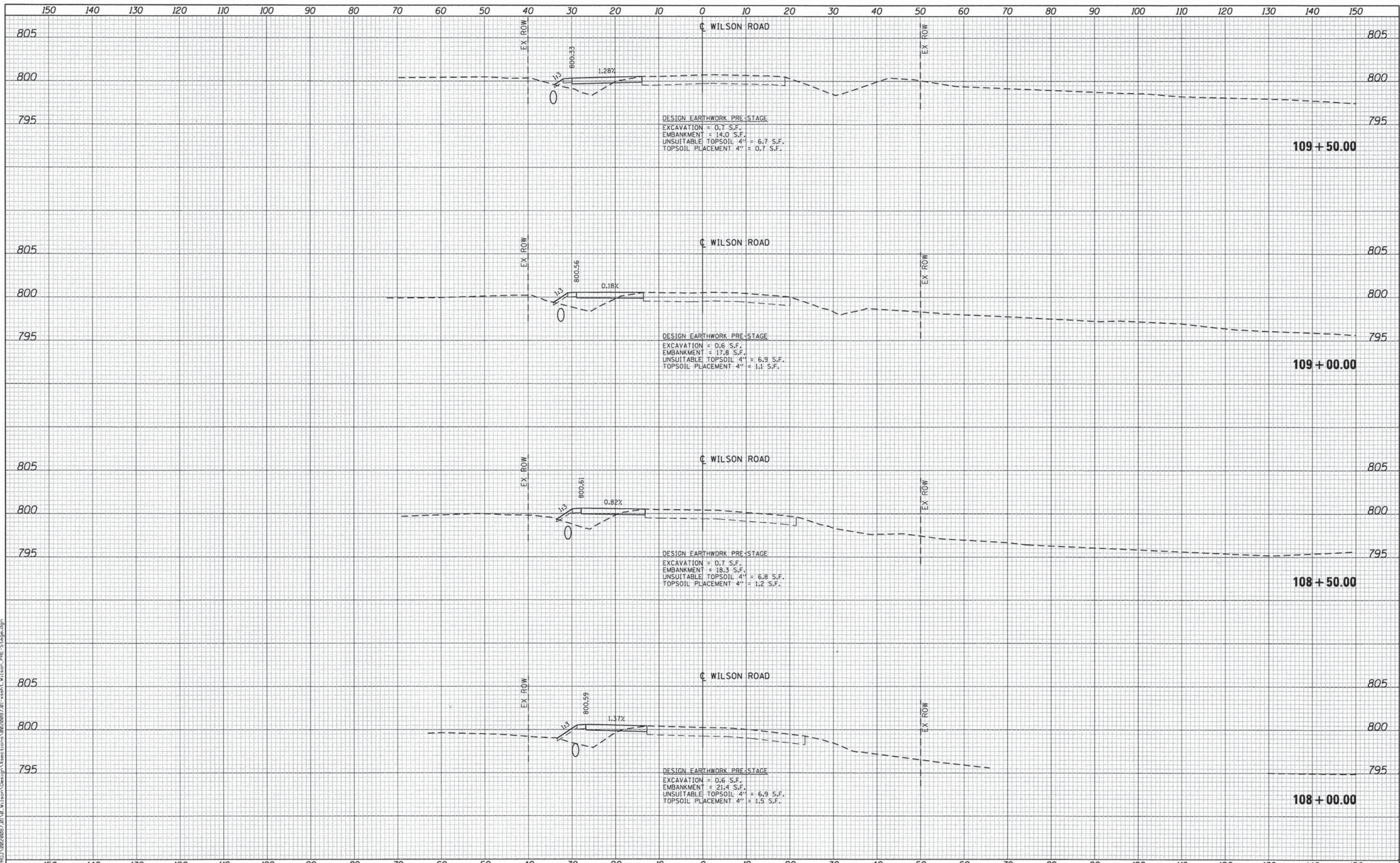
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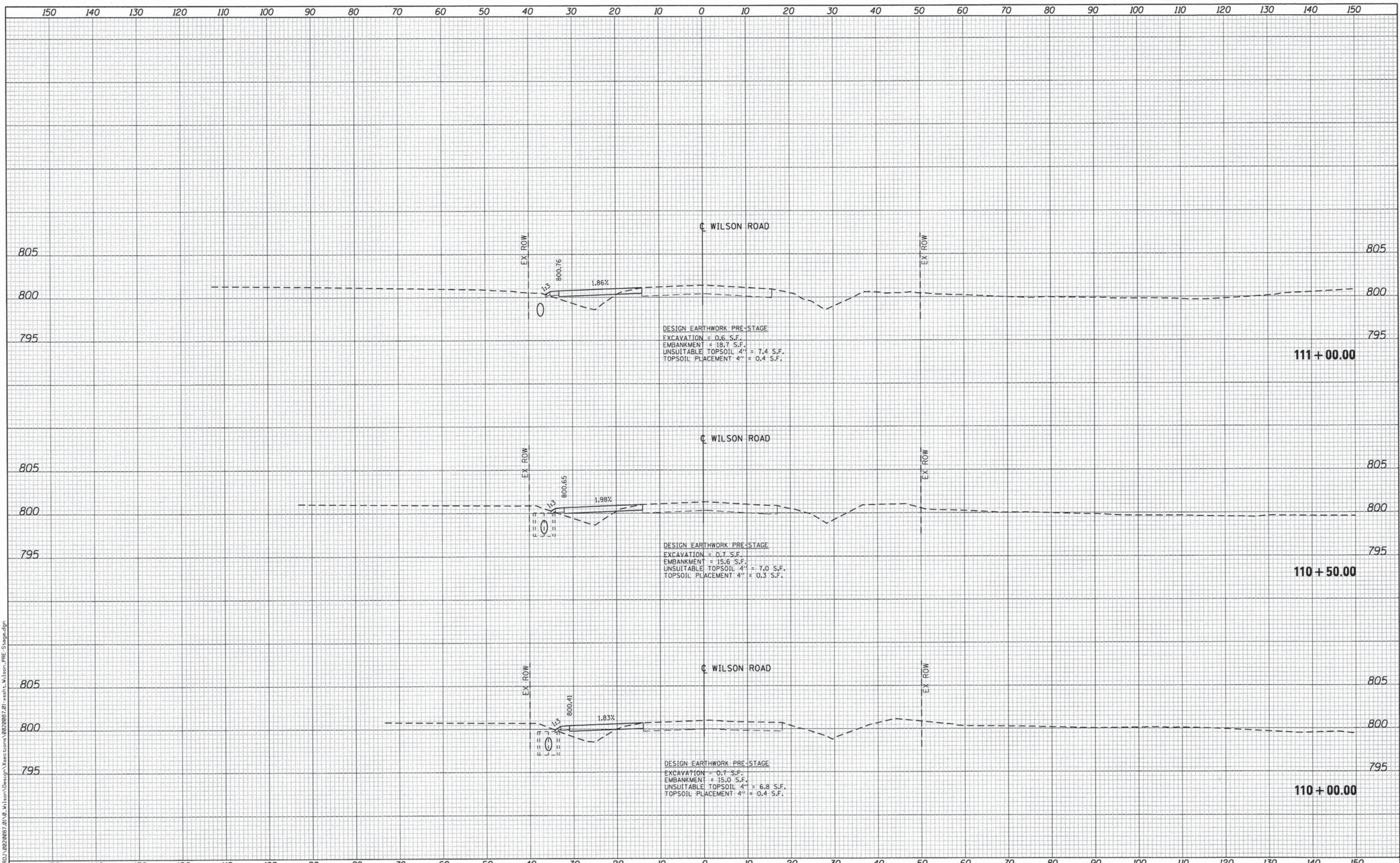
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	DATE - 3/21/2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WILSON ROAD - PRE-STAGE  
 WILSON ROAD UNDERPASS**

SCALE: SHEET NO. OF SHEETS STA. 108+00.00 TO STA. 109+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17B	14-F3000-02-BT	LAKE	165	87
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	



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**CG** Ciorba Group, Inc.  
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 Chicago, Illinois 60656  
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USER NAME = ntumbav	DESIGNED - EPS	REVISED -
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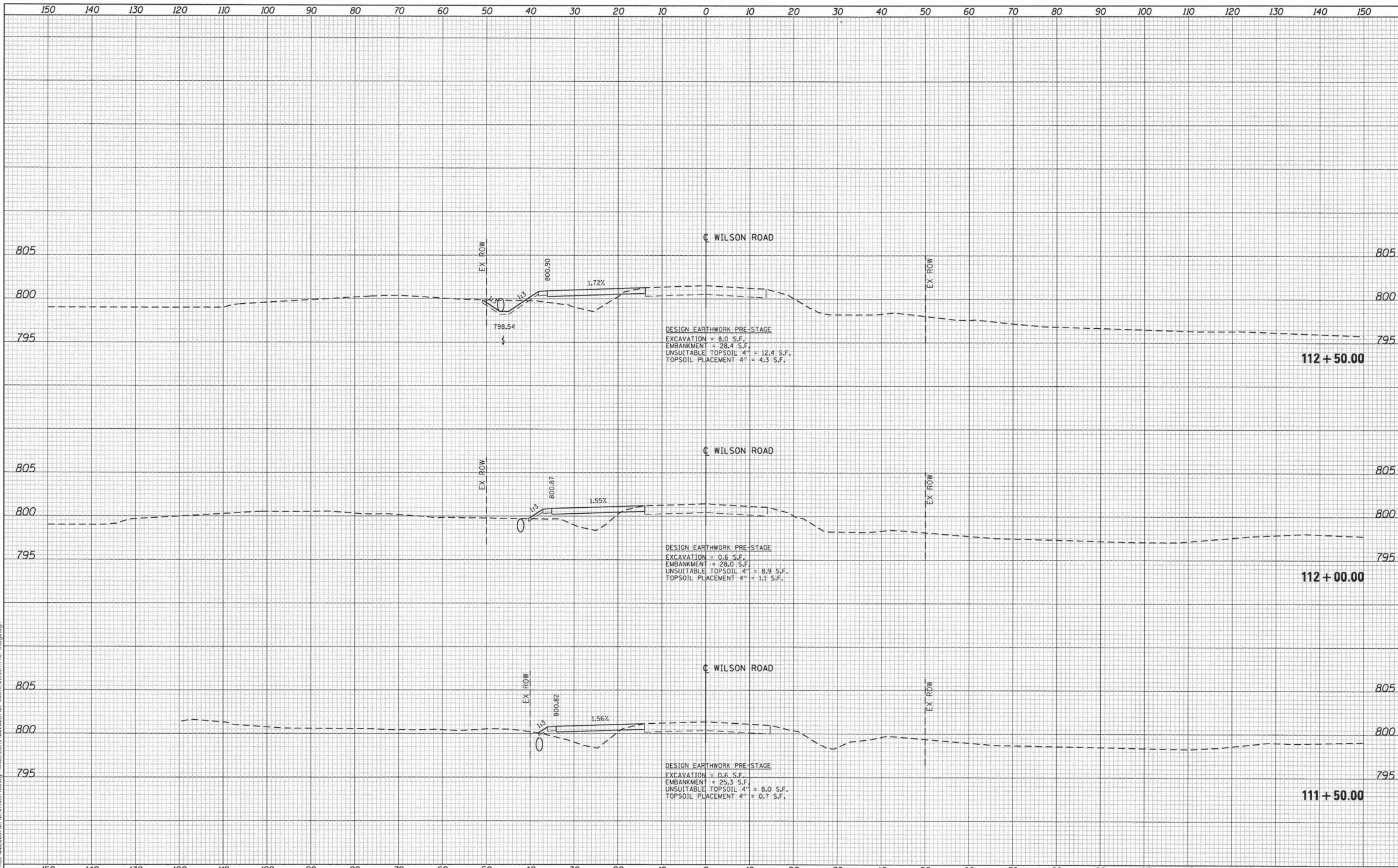
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WILSON ROAD - PRE-STAGE  
 WILSON ROAD UNDERPASS**

SCALE: SHEET NO. OF SHEETS STA. 110+00.00 TO STA. 111+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	88
CONTRACT NO. 63808				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				





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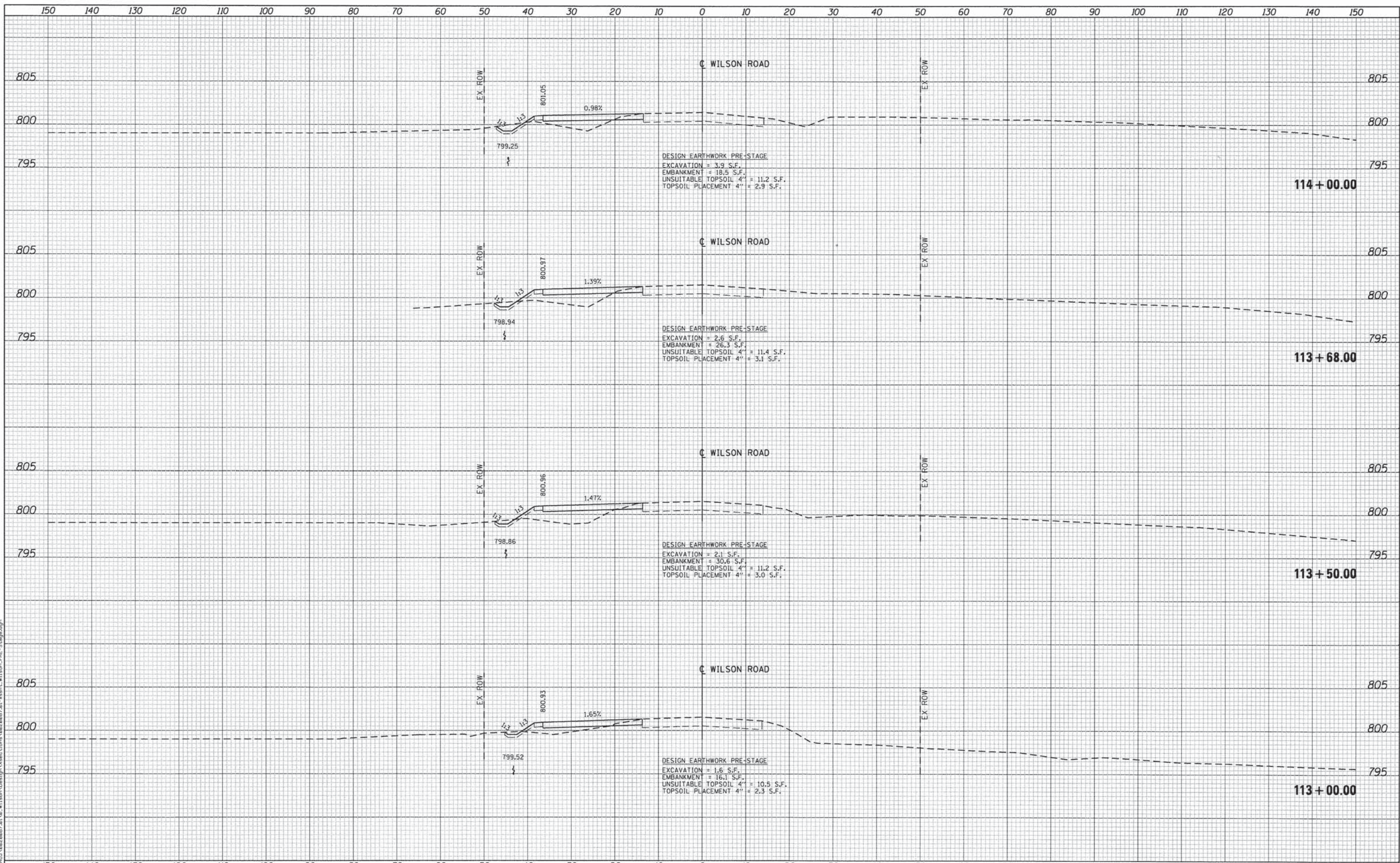
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WILSON ROAD - PRE-STAGE  
 WILSON ROAD UNDERPASS**

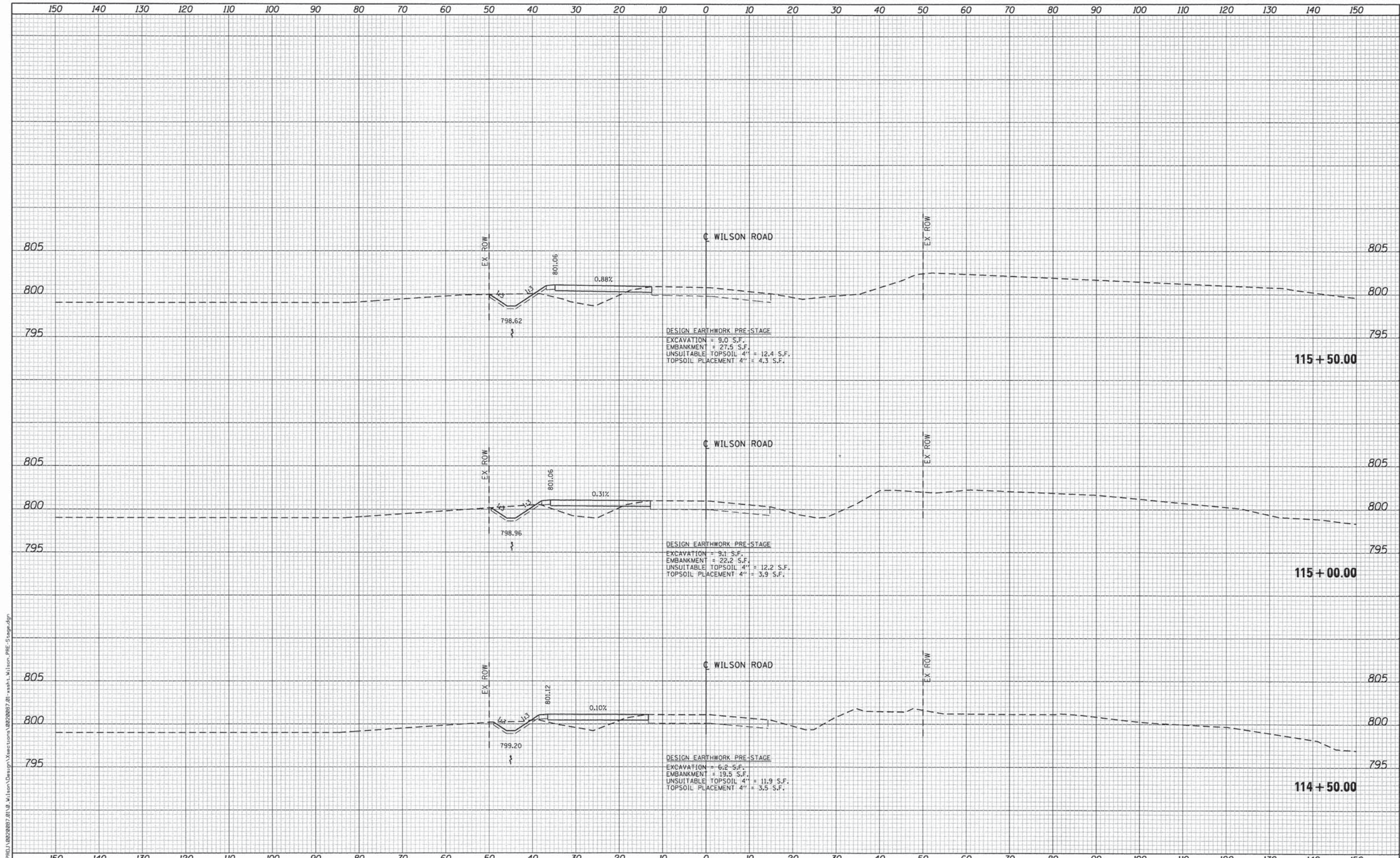
SCALE: SHEET NO. OF SHEETS STA. 111+50.00 TO STA. 112+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	89
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

CONTRACT NO. 63808



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 Tel. 773.775.4009 Fax 773.775.4014

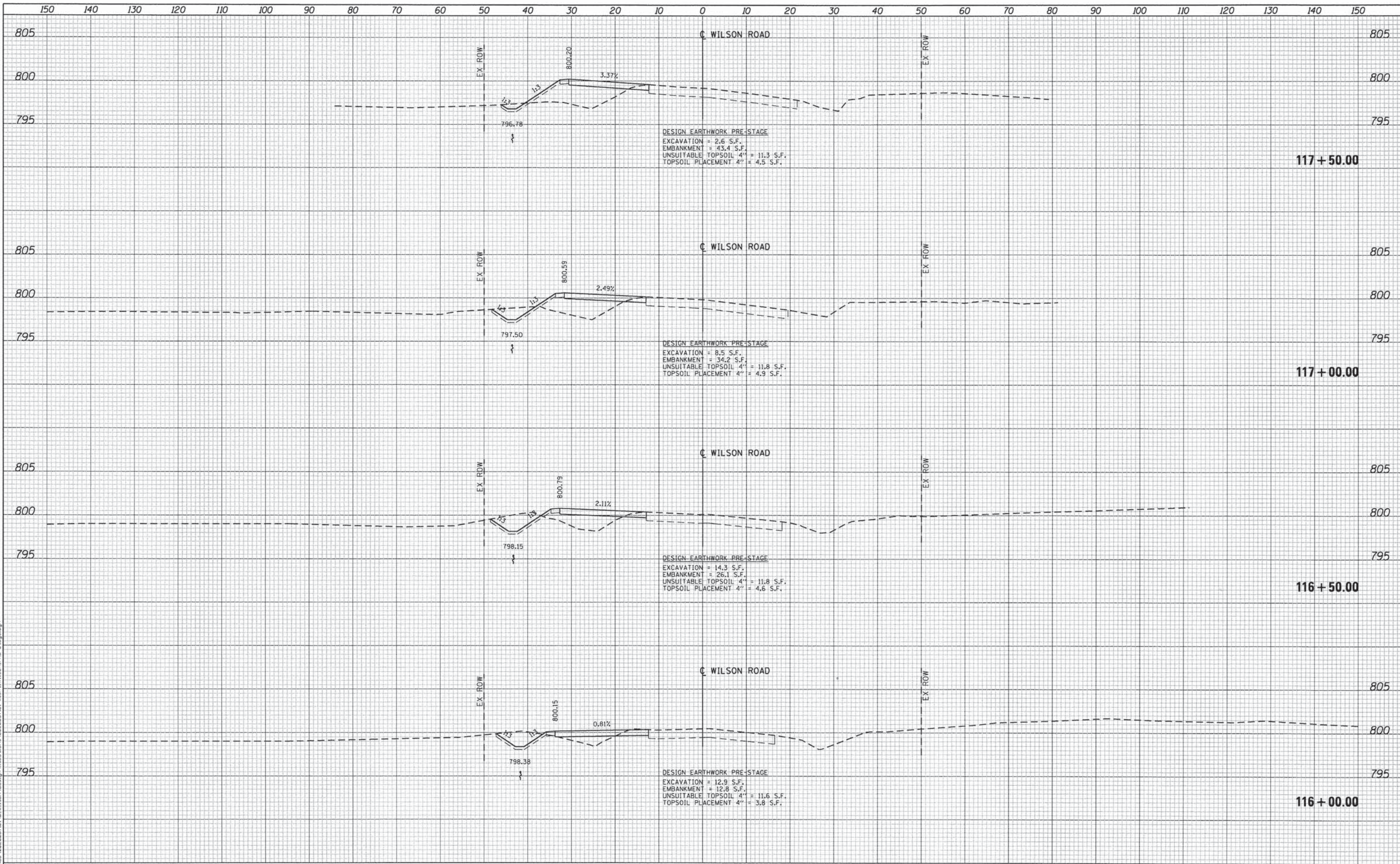
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

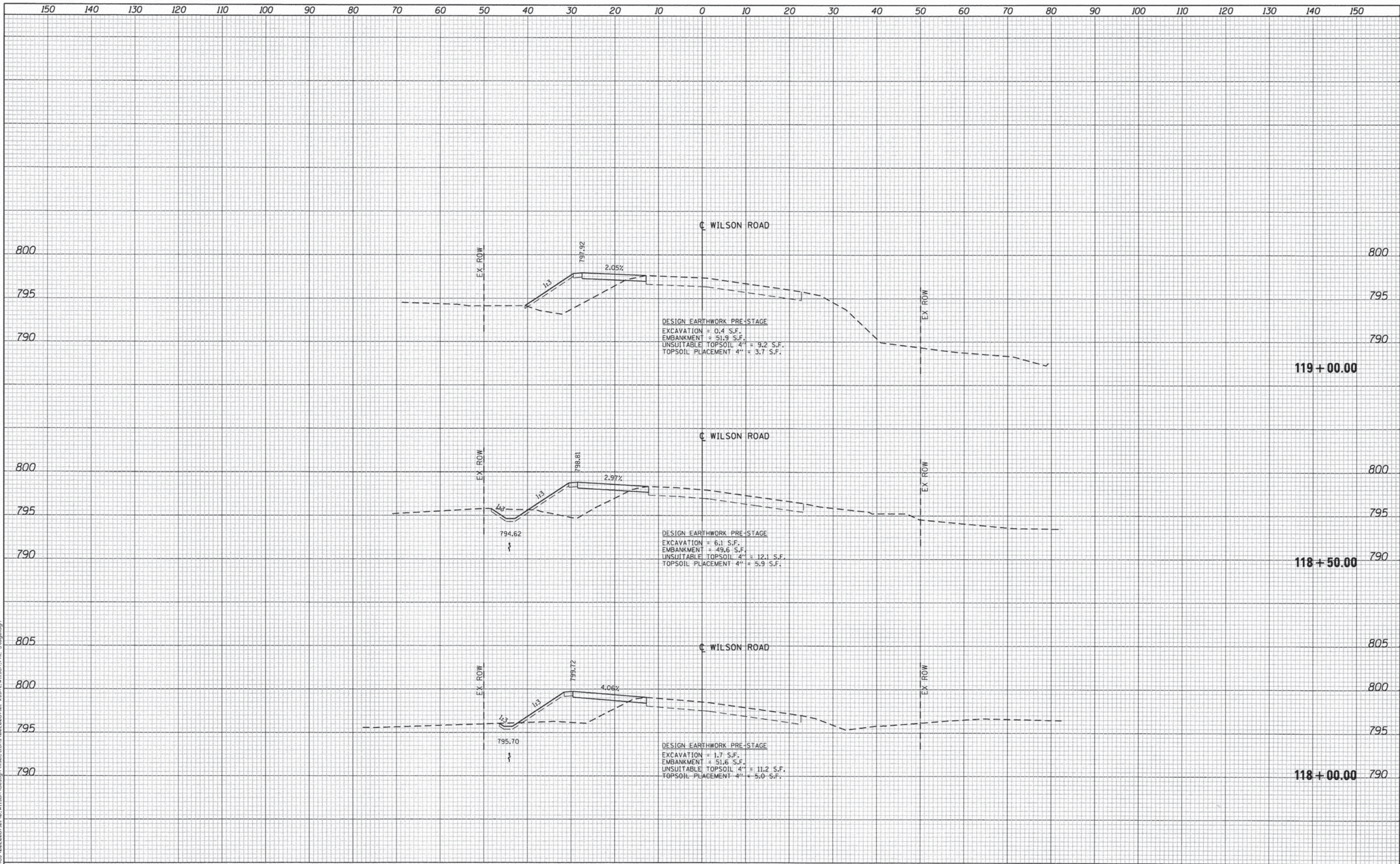
**CROSS SECTIONS  
 WILSON ROAD - PRE-STAGE  
 WILSON ROAD UNDERPASS**

SCALE: SHEET NO. OF SHEETS STA. 114+50.00 TO STA. 115+50.00

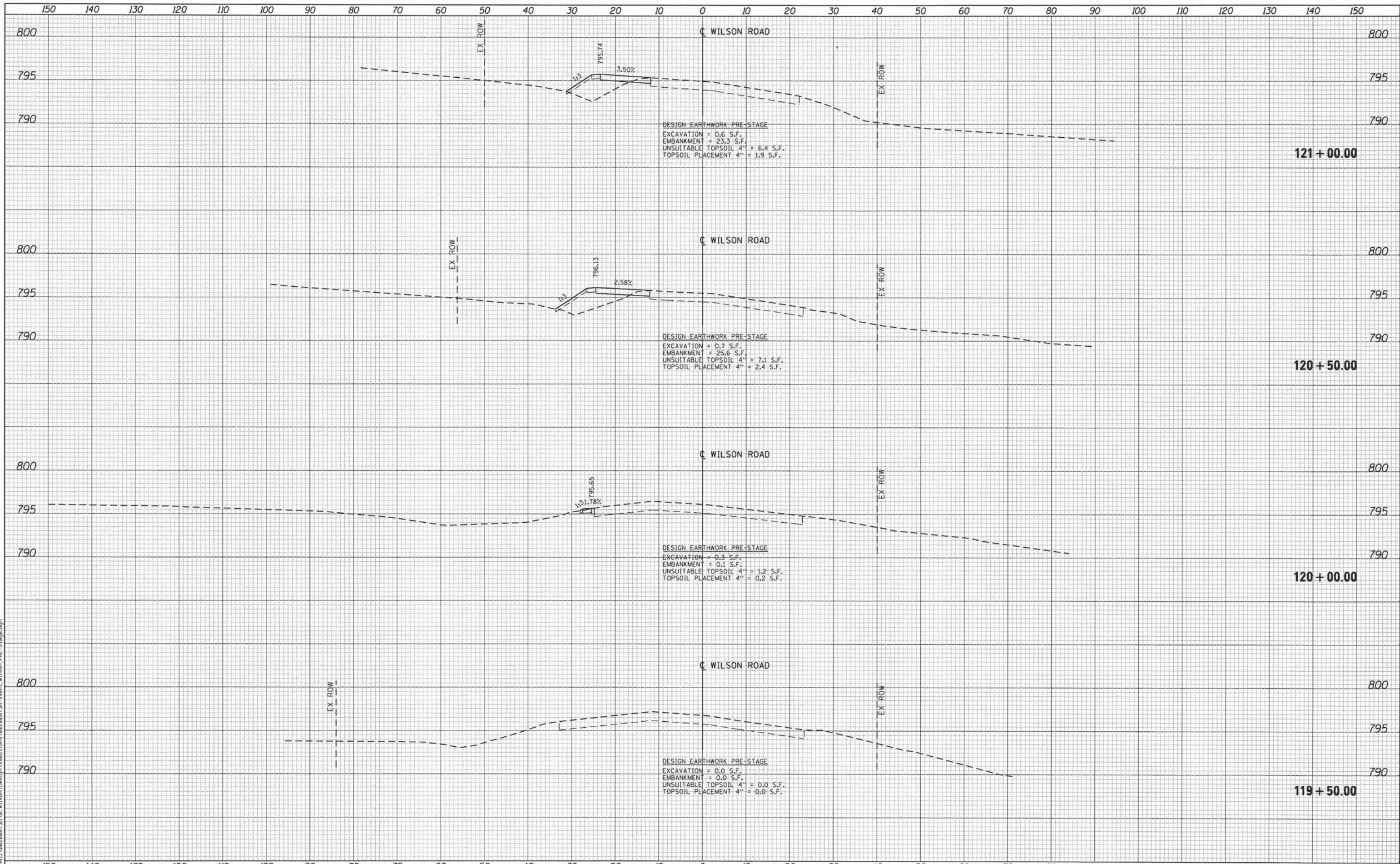
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	91
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63808	



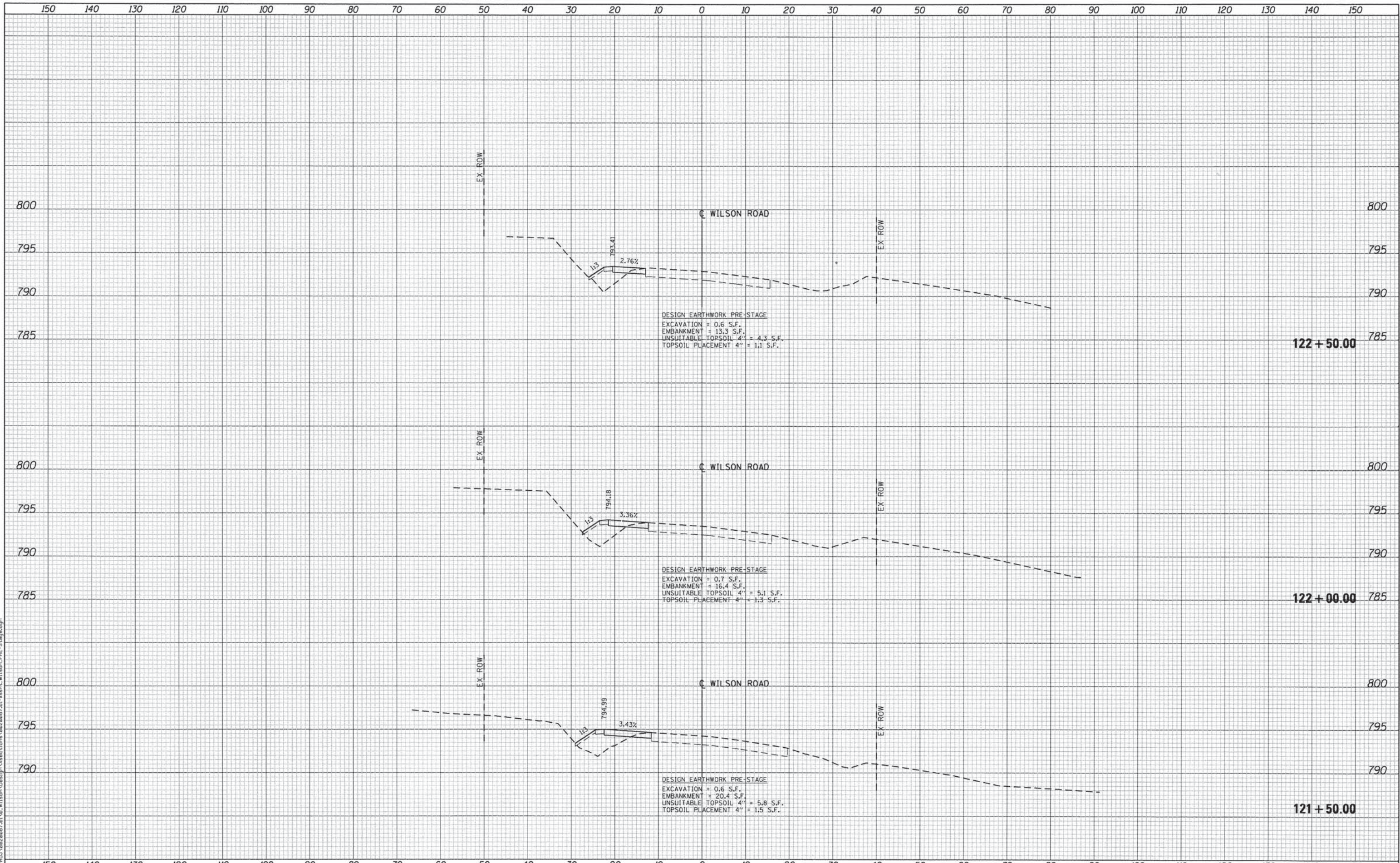
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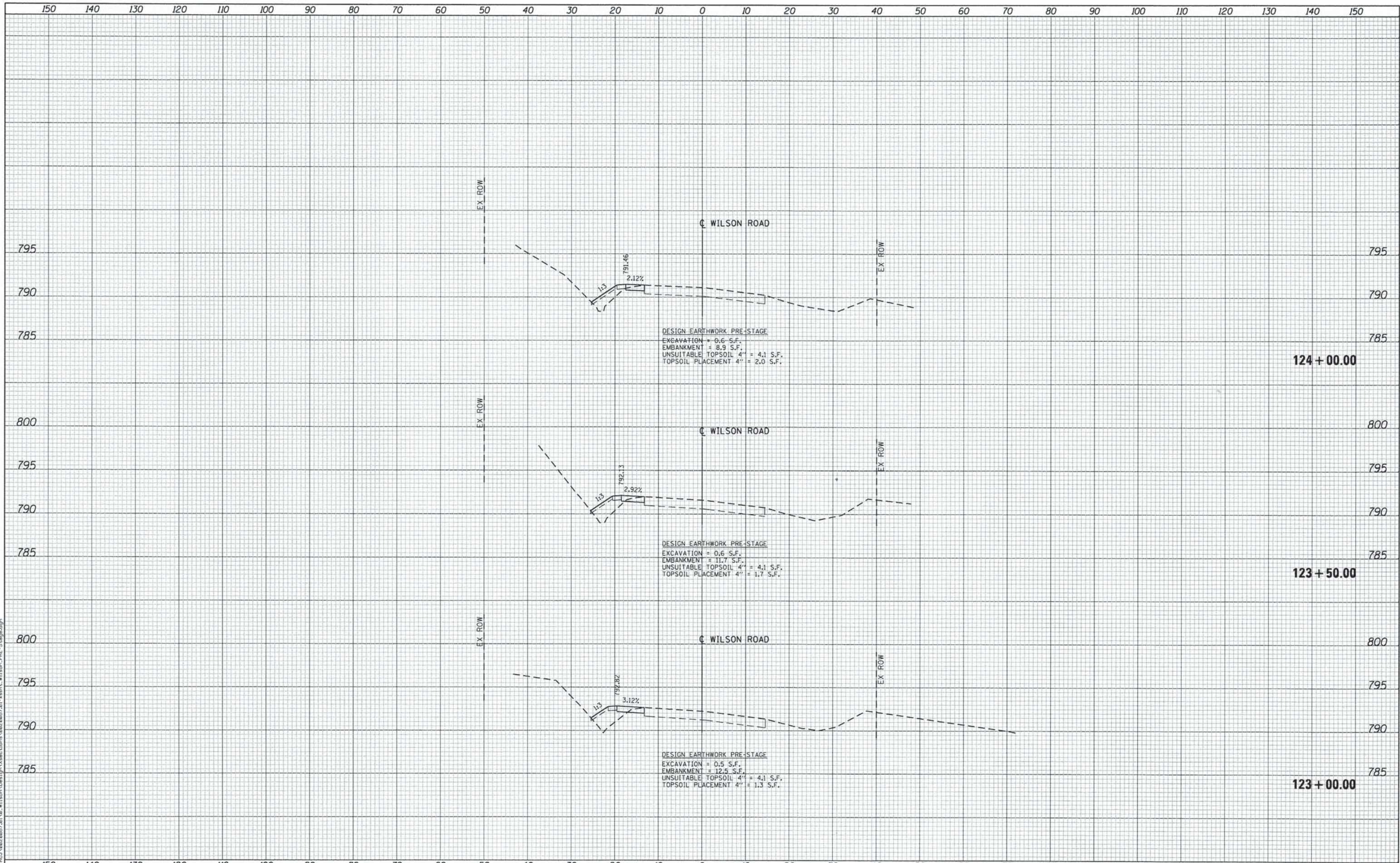
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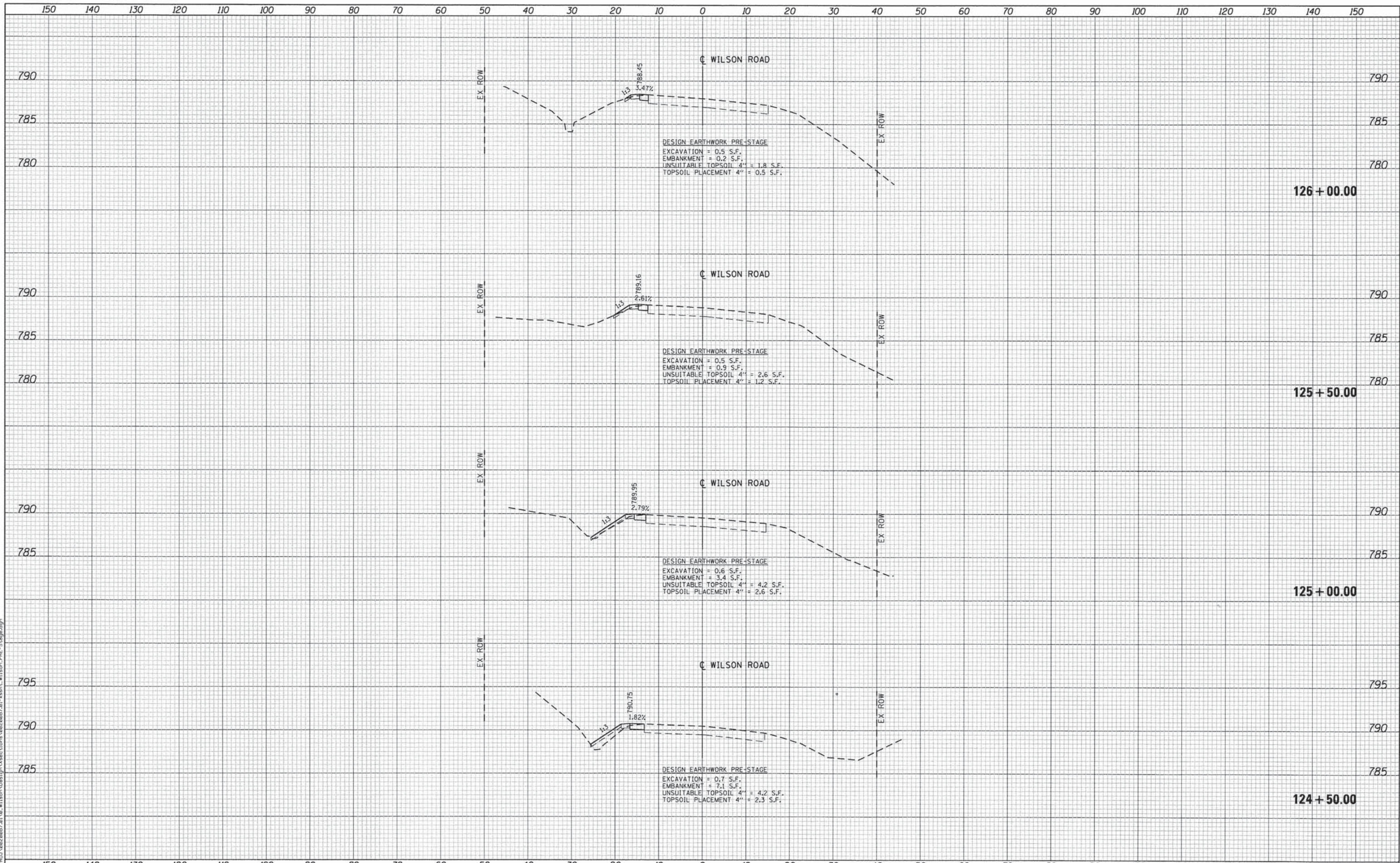


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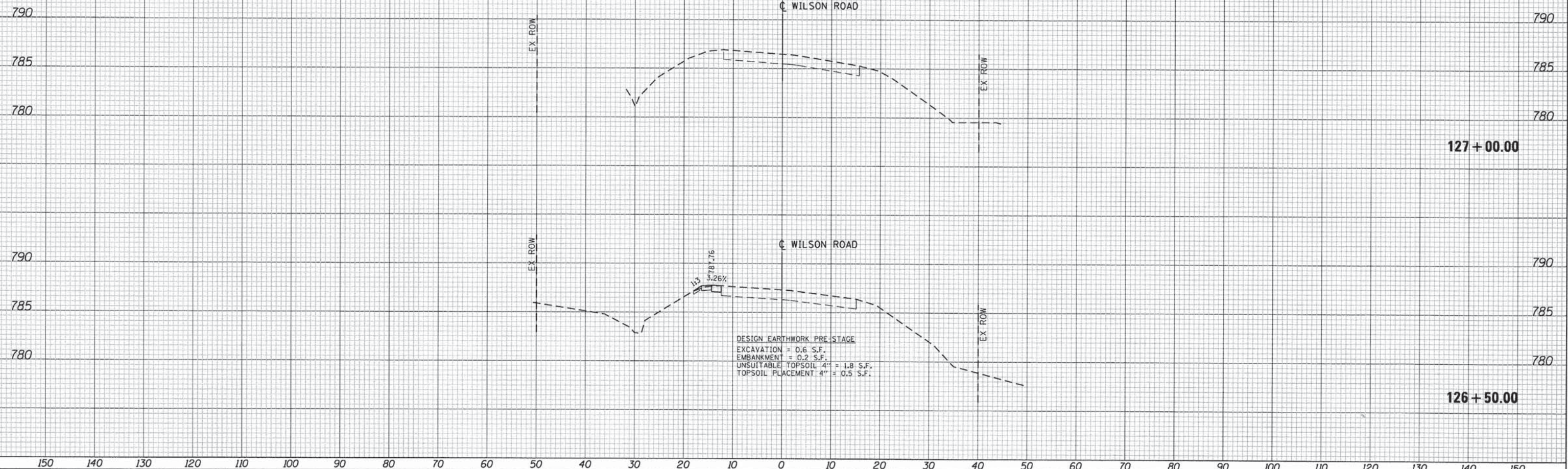
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DATE - 3/21/2014		

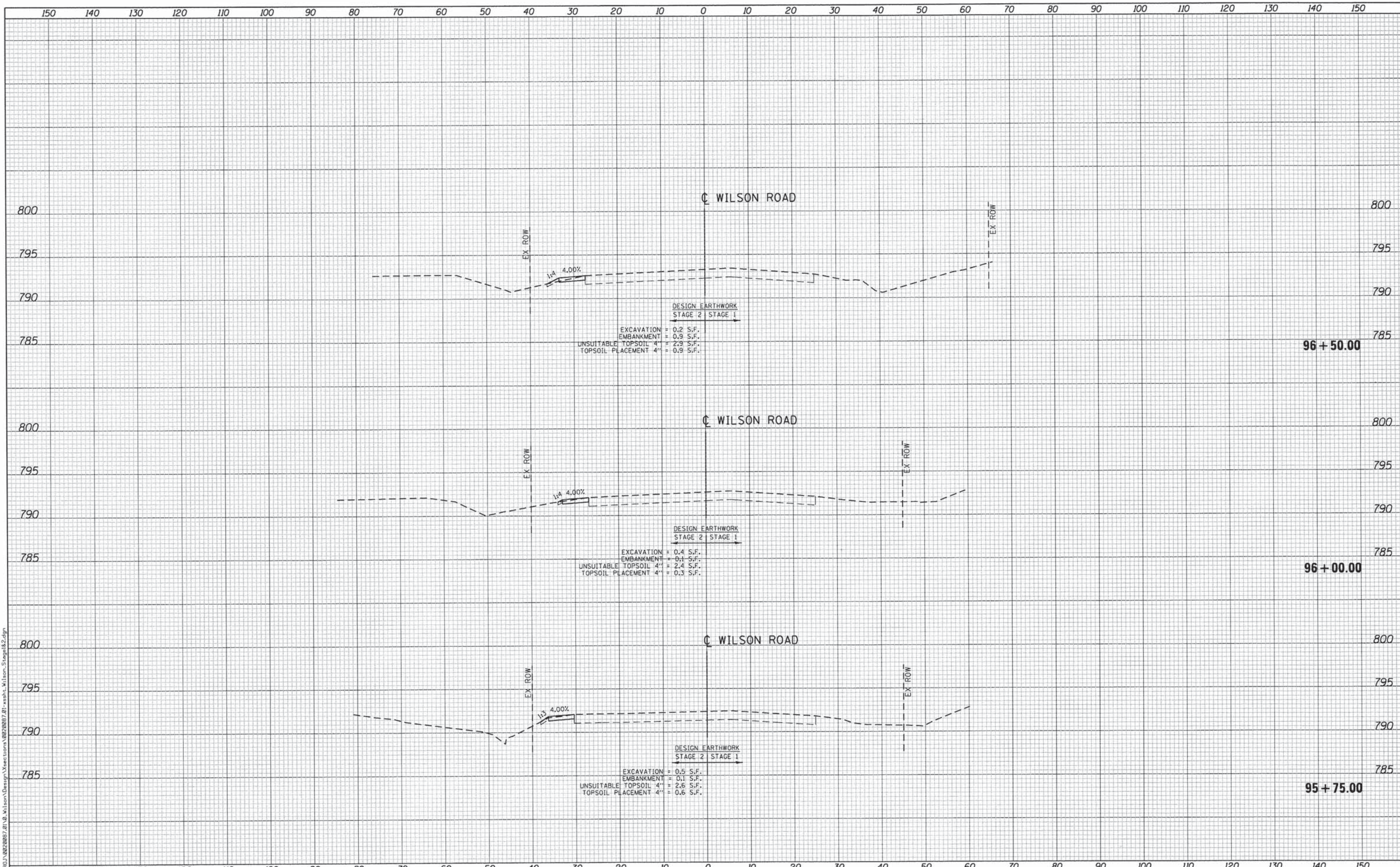
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WILSON ROAD - PRE-STAGE  
 WILSON ROAD UNDERPASS**

SCALE: SHEET NO. OF SHEETS STA. 126+50.00 TO STA. 127+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	98

CONTRACT NO. 63808  
 FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT



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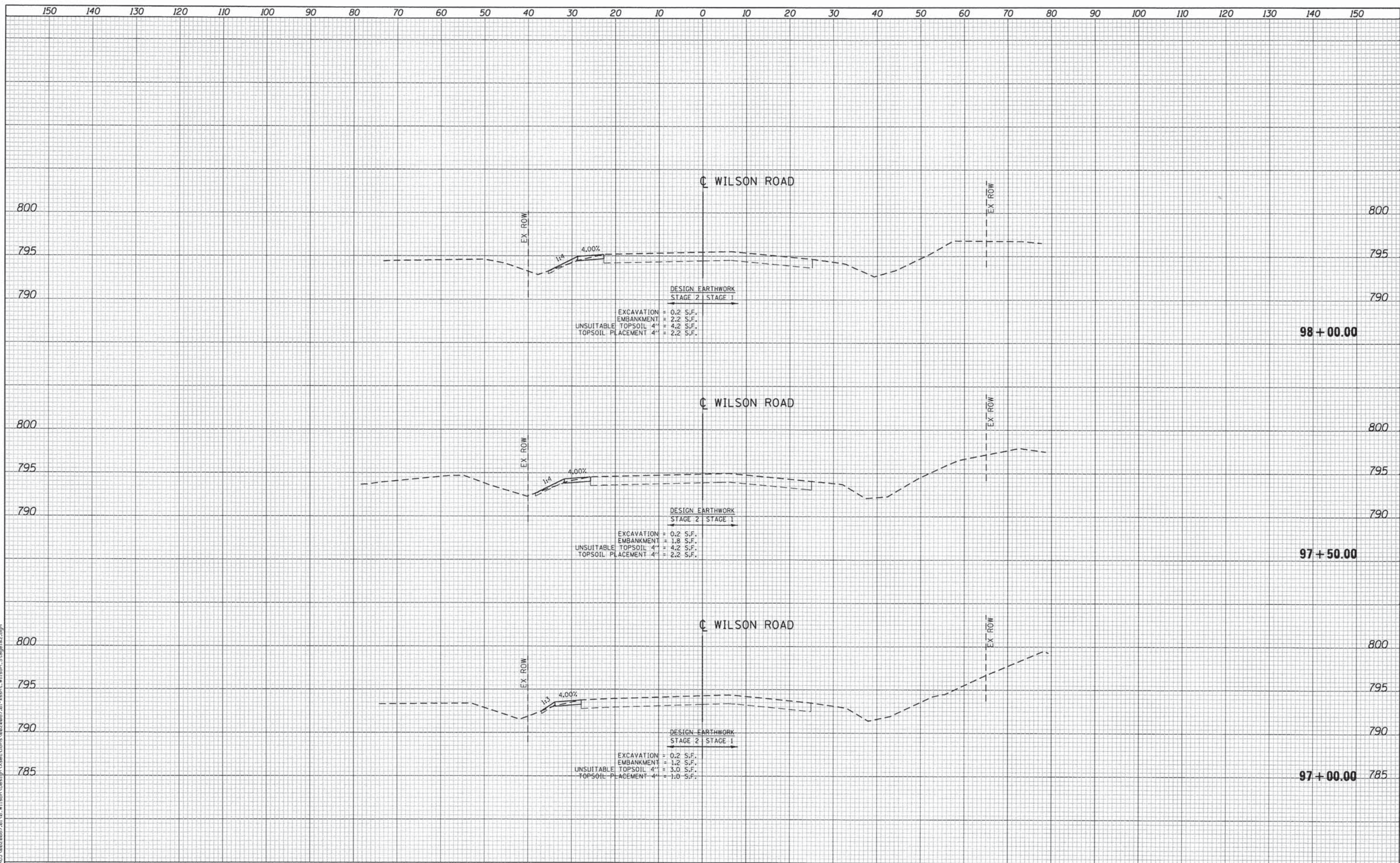
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PLOT DATE = 3/21/2014	DATE - 3/21/2014	REVISED -

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

**CROSS SECTIONS**  
**WILSON ROAD - STAGE 1&2**  
**WILSON ROAD UNDERPASS**

SCALE: SHEET NO. OF SHEETS STA. 95+75.00 TO STA. 96+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178	14-F3000-02-BT	LAKE	165	99
CONTRACT NO. 63808				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME = M:\PROJ\0222087\01\Wilson\Design\Sections\0222087\_01\_nash\_L\_Wilson\_Stage1&2.dgn