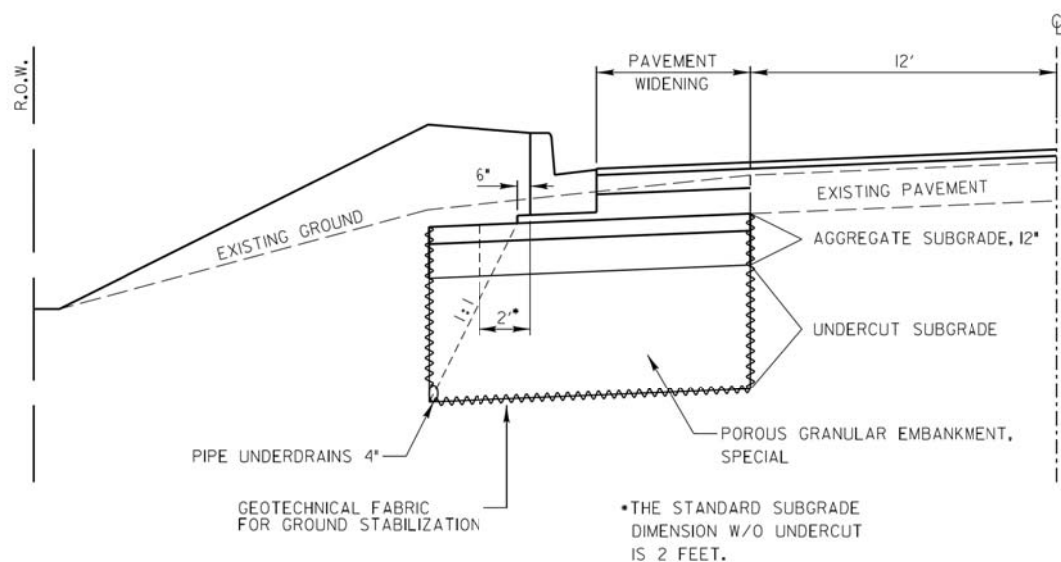


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AREAS CHECKED	
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TEMPLATE	
AREAS CHECKED	
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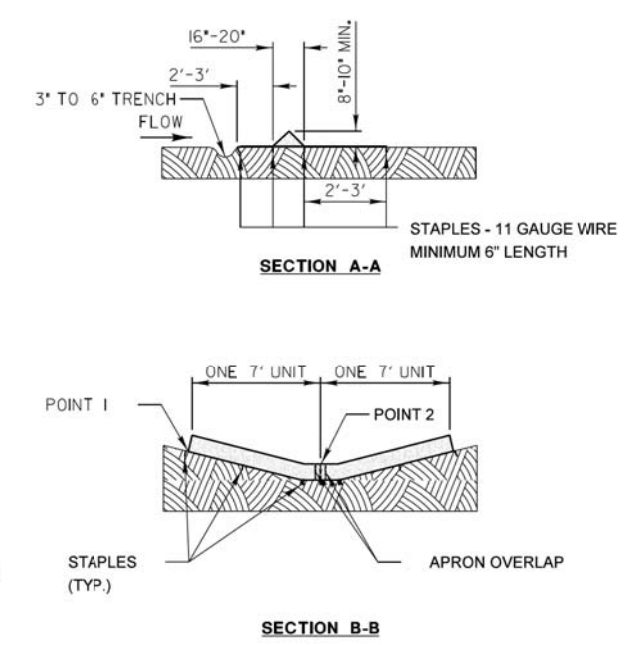
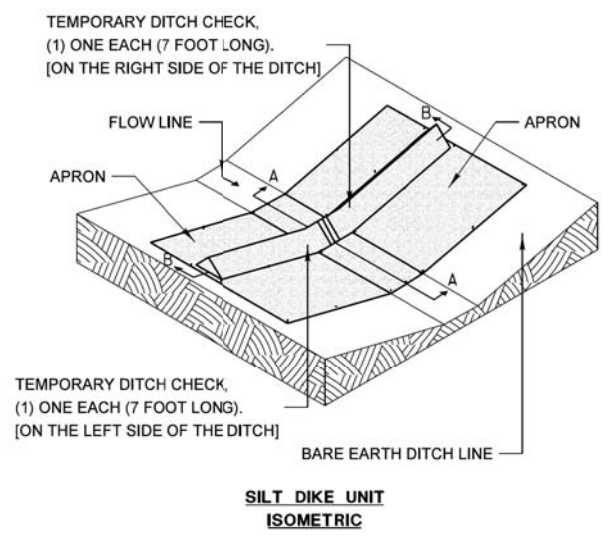
IN UNSTABLE AREAS, THE SUBGRADE SHALL BE:  
 UNDERCUT (PAID FOR AS EARTH EXCAVATION PER CU YD);  
 REINFORCED WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION  
 (PAID FOR PER SQ YD);  
 DRAINED BY INSTALLATION OF PIPE UNDERDRAINS, 4"  
 (PAID FOR PER FOOT);  
 BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SPECIAL  
 (PAID FOR PER TON) AND;  
 TOPPED WITH AGGREGATE SUBGRADE, 12" (300mm)  
 (PAID FOR PER SQ YD).

SCALE:  
 HORIZONTAL 1" = 5'  
 VERTICAL 1" = 2.5'

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007

**UNDERCUT DETAIL**

### FOR BARE EARTH APPLICATION ONLY



**NOTES:**  
 THE TEMPORARY DITCH CHECK SHALL BE USED IN BARE EARTH DITCH LINES AND SHALL BE REMOVED JUST PRIOR TO THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

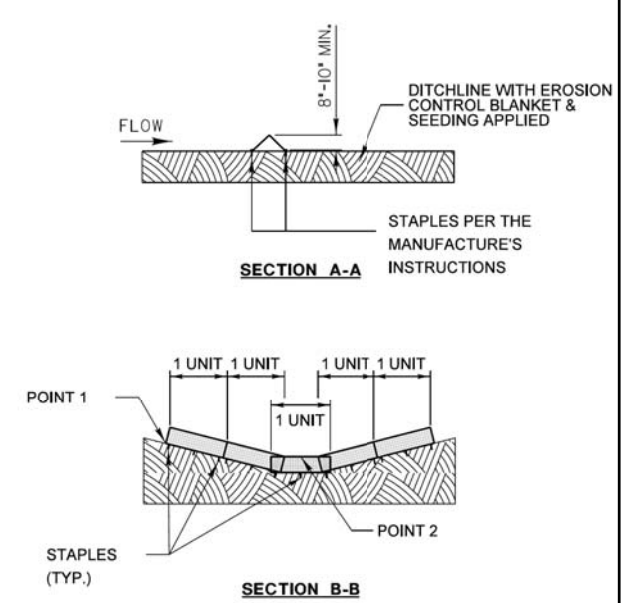
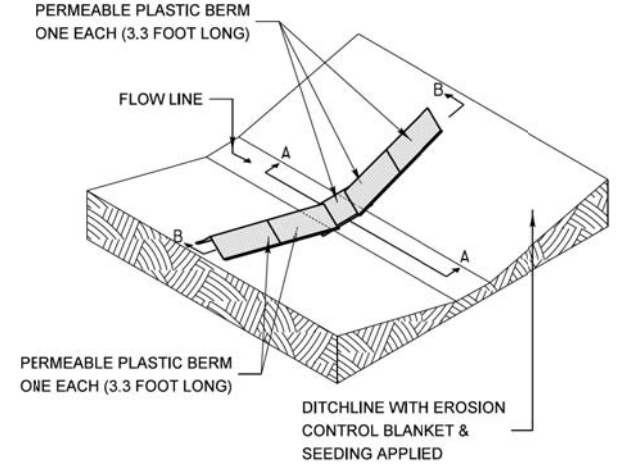
POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007
ADDED DIMENSIONS	04/17/08	
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

**TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH**

(SHEET 1 OF 2)

### FOR USE WHILE ESTABLISHING FINAL LANDSCAPING



**NOTES:**  
 THE PERMEABLE PLASTIC BERM SHALL REPLACE THE TEMPORARY DITCH CHECK AFTER THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

EACH PERMEABLE PLASTIC BERM IS 3.3 FEET IN LENGTH. THE MINIMUM INSTALLATION IN A DITCH SHALL BE THREE UNITS. THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A PERMEABLE PLASTIC BERM 16.5 FEET IN LENGTH (5 UNITS).

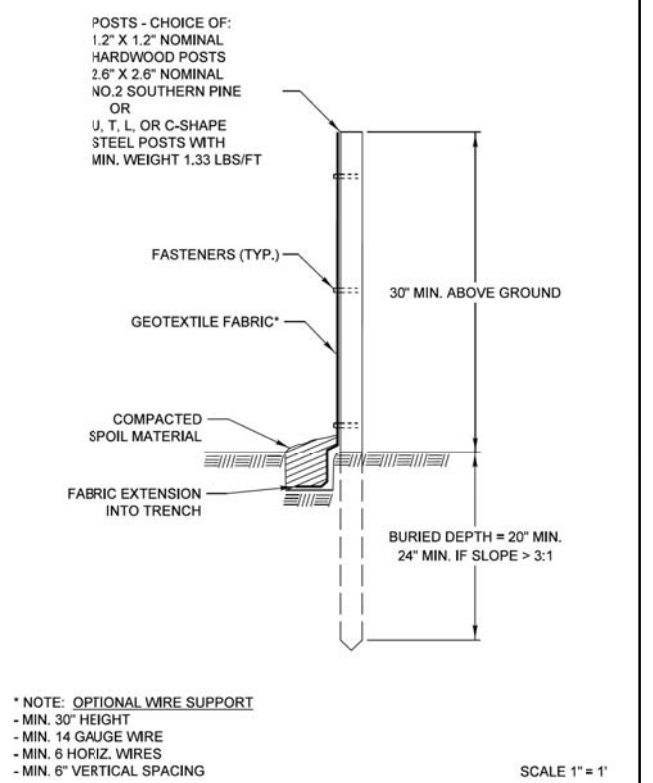
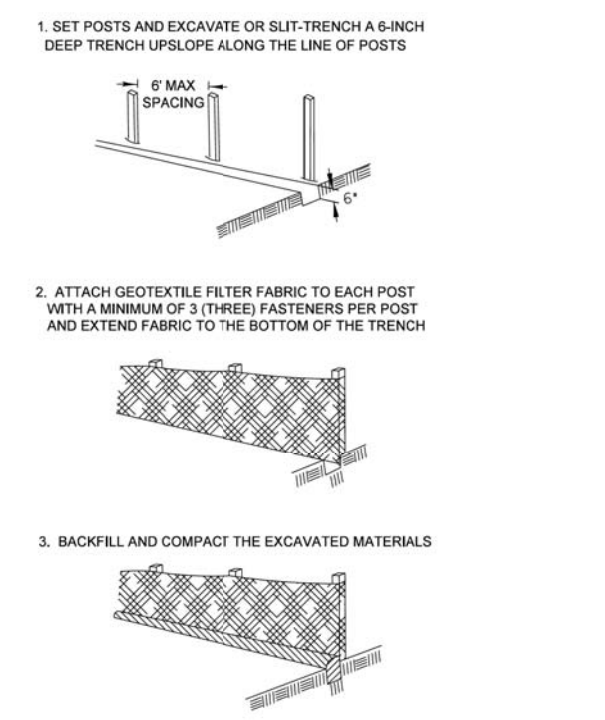
STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS THROUGH OR OVER THE BERM AND NOT AROUND THE ENDS.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007
ADDED DIMENSIONS	04/17/08	
REVISED PAY ITEM	04/15/10	
ADDED PLASTIC BERM (pg2)	10/10/12	

**TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH**

(SHEET 2 OF 2)



Requirements	Test Methods	Wire Backed Supported Silt Fence*	Geotextile Elongation >=50%*	Geotextile Elongation <50%*
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity*	ASTM D 4491	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: JUNE 20, 2008
ORIG. by LCSMC	4/21/08	
Update Text	7/15/11	

**PERIMETER EROSION BARRIER INSTALLATION**

**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 10/8/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LCDOT HIGHWAY STANDARDS**

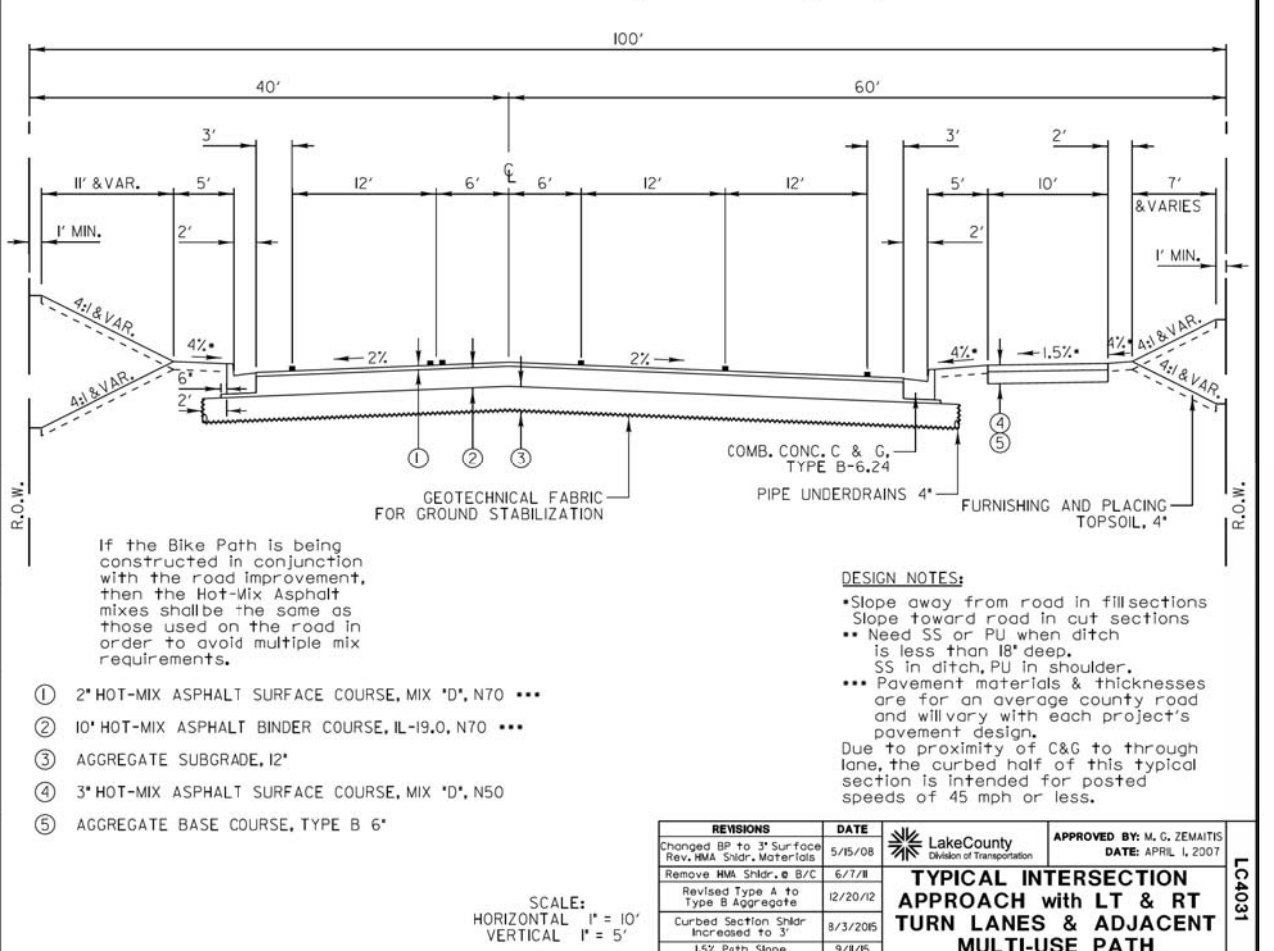
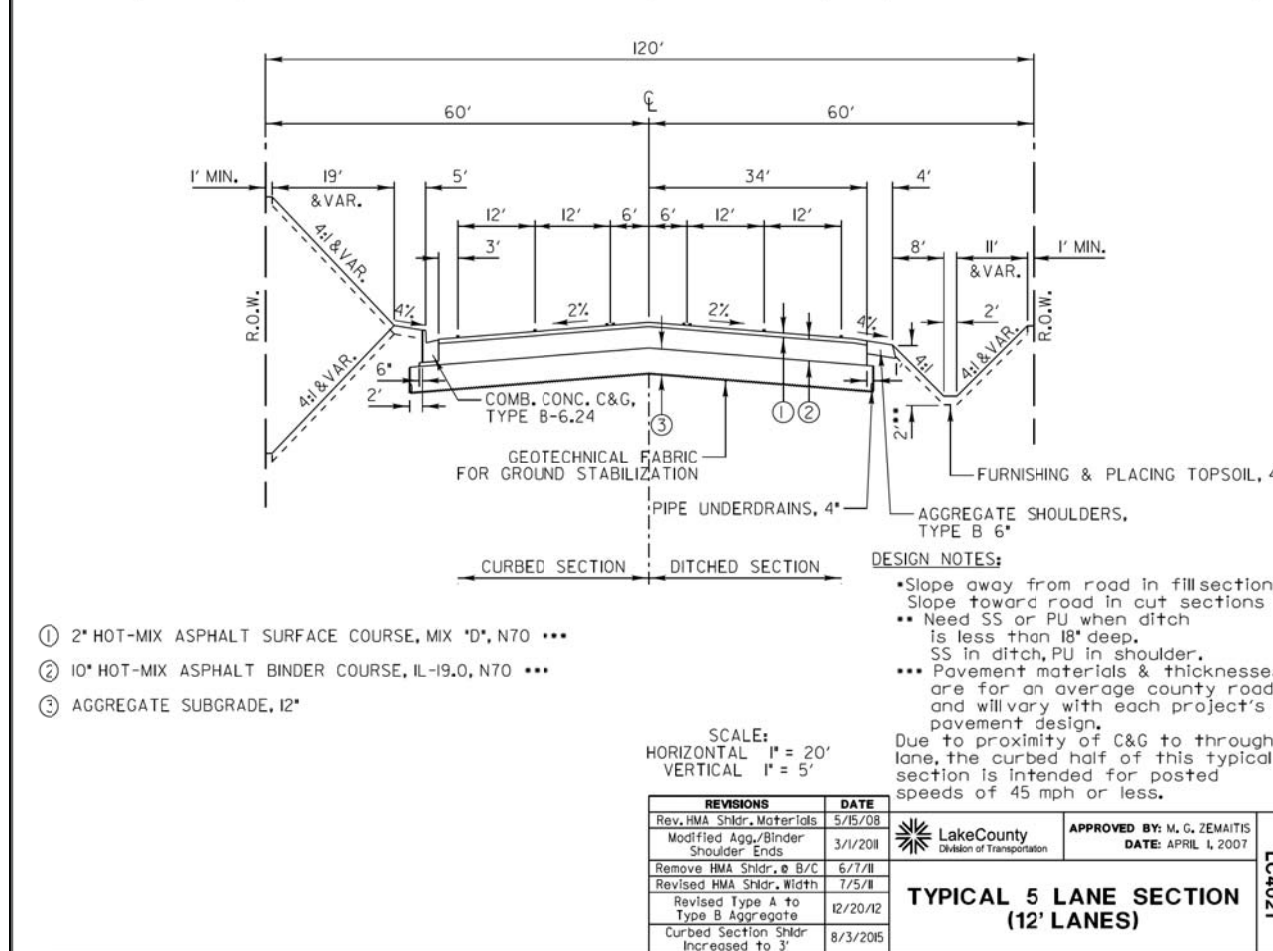
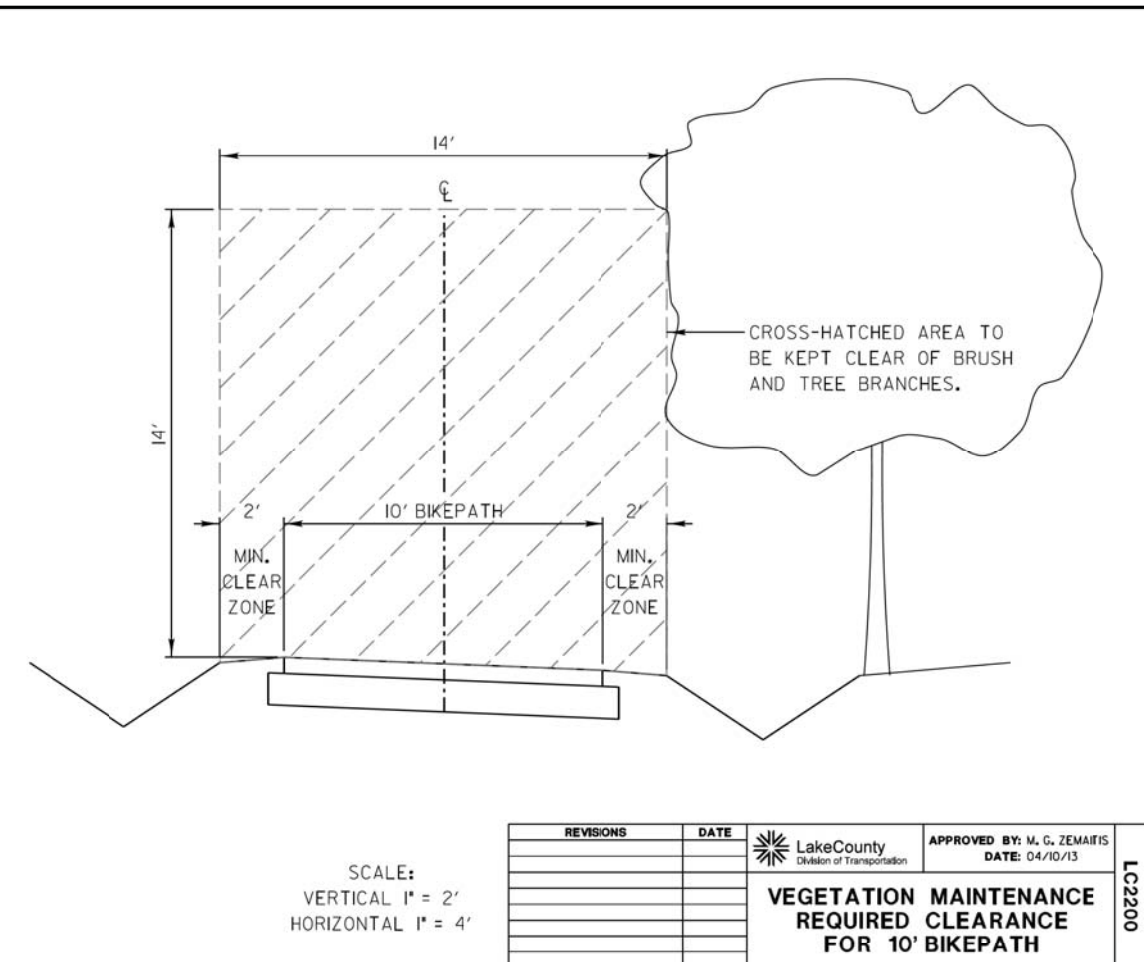
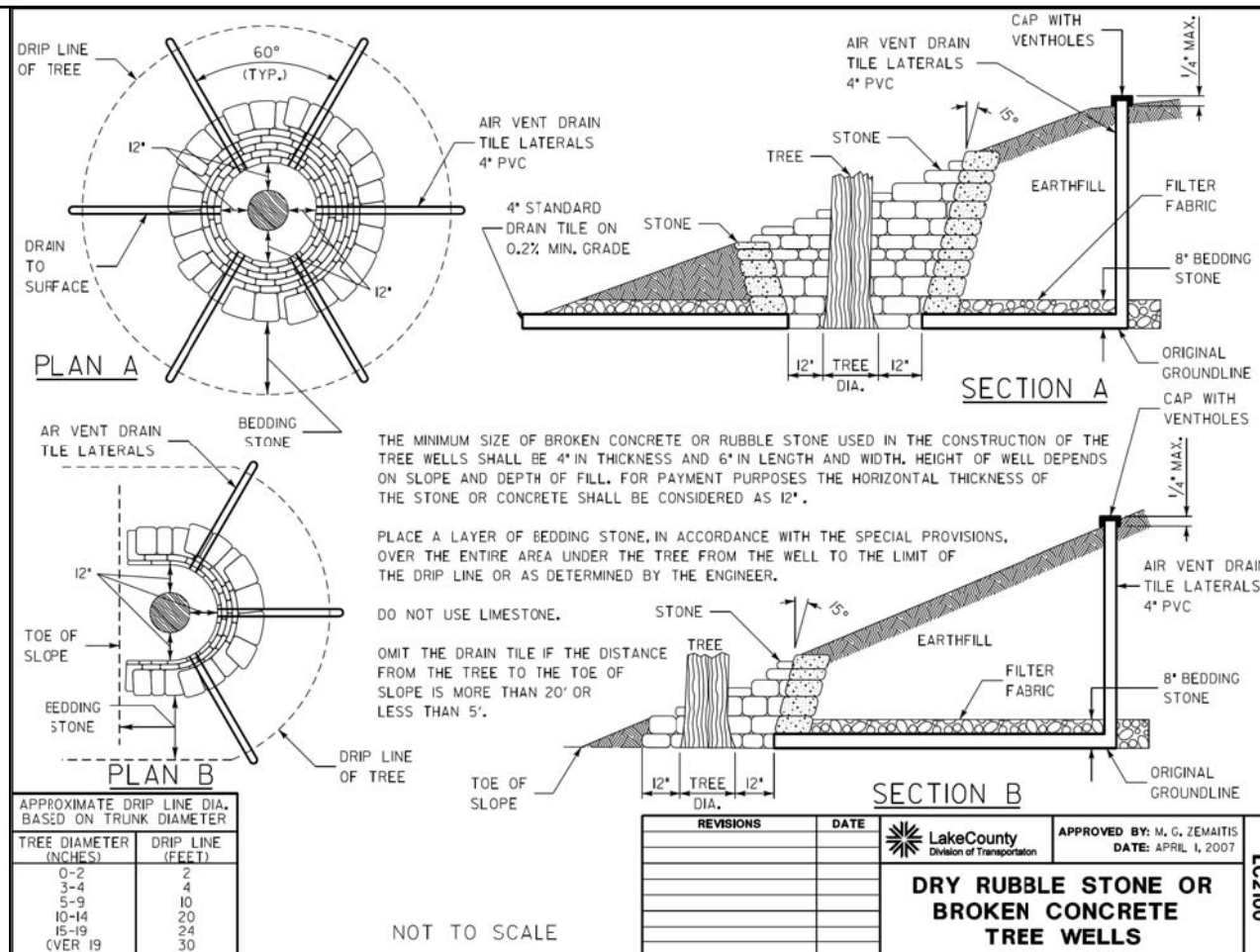
SHEET NO. 2 OF 16 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	301
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

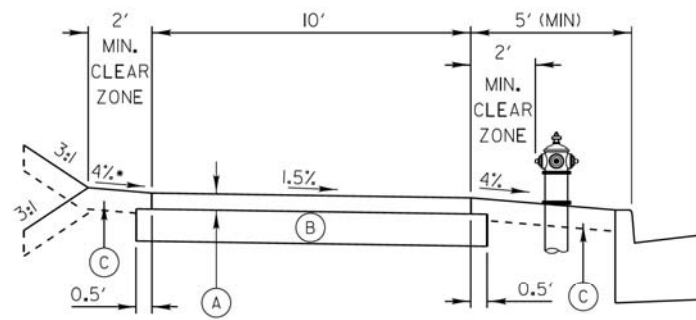
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TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	





DATE	
BY	
FINAL SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- (B) AGGREGATE BASE COURSE, TYPE B 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

**DESIGN NOTE:**

•Slope away from road in fill sections  
Slope toward road in cut sections

If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:  
VERTICAL 1" = 2'  
HORIZONTAL 1" = 4'

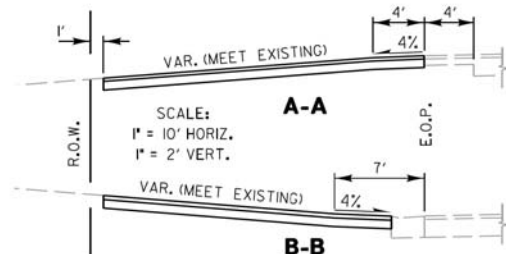
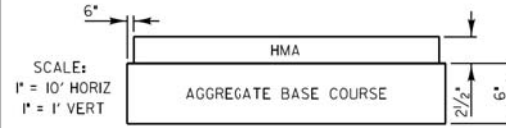
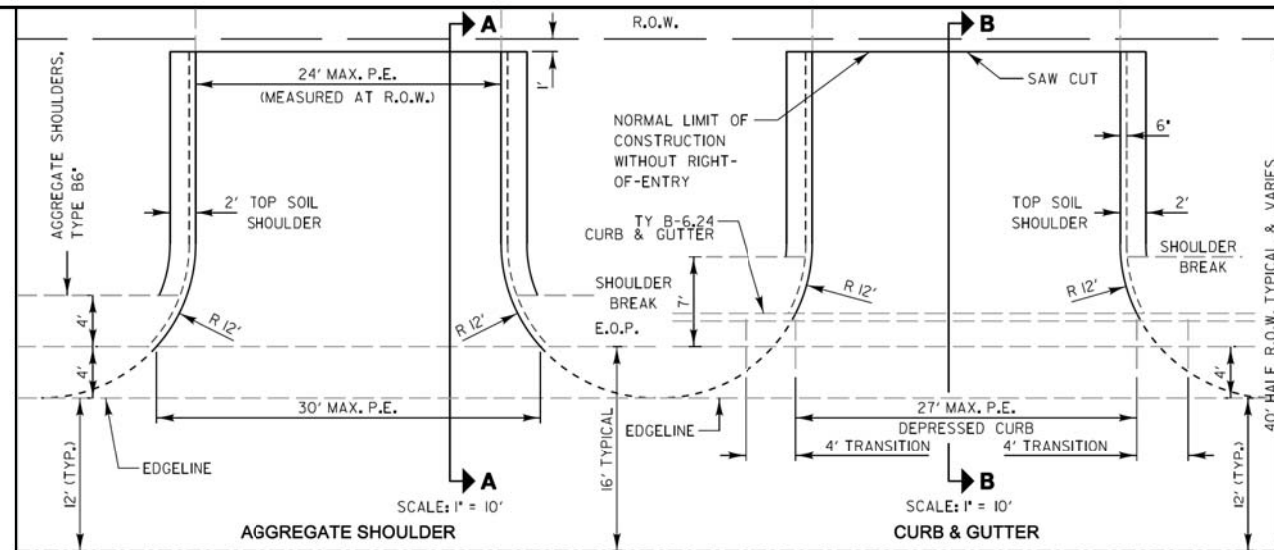
REVISIONS	DATE
Changed BP to 3" Surface	5/1/2008
Modified Agg. Base Course	3/1/2009
Change to Mix "D"	2/20/2012
Revised Type A to Type B Aggregate	12/20/12
1.5% Path Slope	9/1/2015

LakeCounty  
Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

**TYPICAL SECTION  
10' HOT-MIX ASPHALT  
BIKEPATH IN VICINITY OF  
CURB & GUTTER**

LC4054



PEs: 2 1/2" HOT-MIX ASPHALT SURFACE COURSE ON 6" AGGREGATE BASE COURSE, TYPE B  
Calculated Quantities for PRIVATE ENTRANCE w/o Curb and Gutter:  
1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness  
Area = 63.0 Sq Yd  
63.0 Sq Yd X 112 lb/Sq Yd/Inch x 2.5 Inches = **9 Ton**  
2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd  
65.7 Sq Yd x 2 Ton/Cu Yd x 6 Inch thickness = **22 Ton**  
Calculated Quantities for PRIVATE ENTRANCE with Curb and Gutter:  
1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness  
Area = 55.0 Sq Yd  
55.0 Sq Yd X 112 lb/Sq Yd/Inch x 2.5 Inches = **8 Ton**  
2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd  
57.2 Sq Yd x 2 Ton/Cu Yd x 6 Inch thickness = **19 Ton**

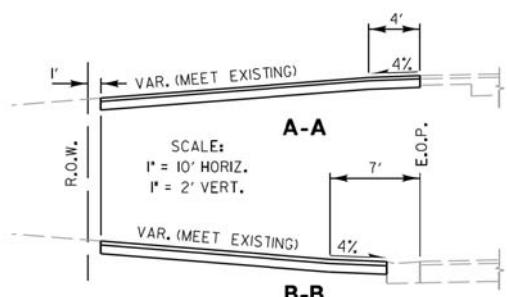
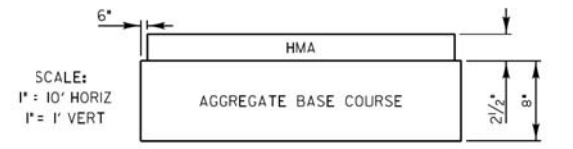
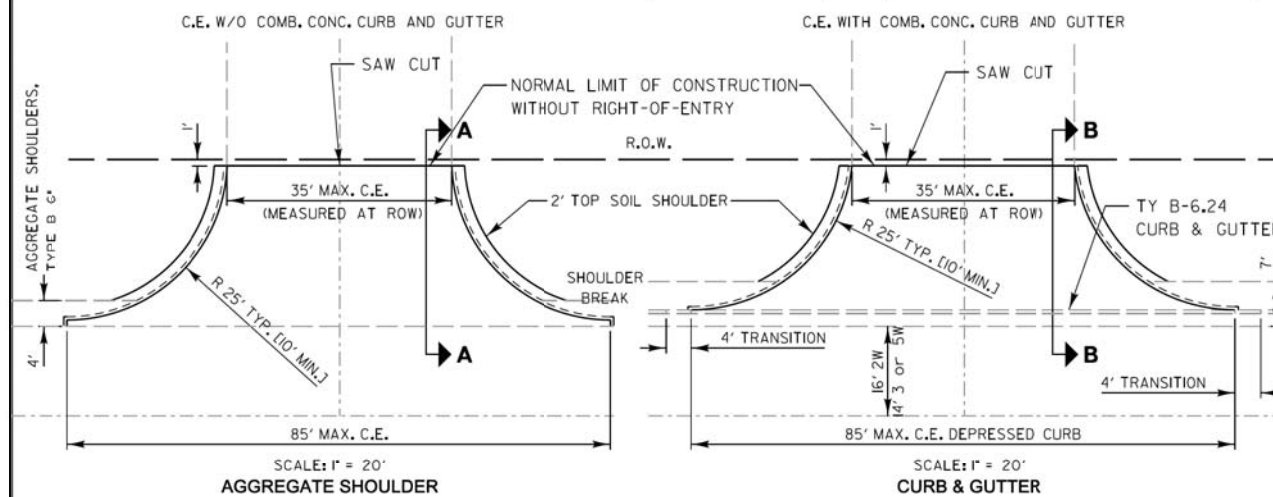
REVISIONS	DATE
Removed Prime Coat Qty	5/20/08
Revised Ent. EOP Radius	6/4/10
Revised Type A to Type B Aggregate	12/20/12
Revised Curb Transition	1/7/15

LakeCounty  
Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

**TYPICAL MINOR ACCESS  
(PRIVATE ENTRANCE)**

LC4100



CE: 2 1/2" HOT-MIX ASPHALT CONCRETE SURFACE COURSE ON 8" AGGREGATE BASE COURSE, TYPE B  
Calculated Quantities for COMMERCIAL ENTRANCE w/o Curb & Gutter above:  
1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness  
Area = 132.6 Sq Yd  
132.6 Sq Yd x 112 lb/Sq Yd/Inch x 2.5 Inches = **19 Ton**  
2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd  
137.0 Sq Yd x 2 Ton/Cu Yd x 8 Inch thickness = **61 Ton**  
Calculated Quantities for COMMERCIAL ENTRANCE with Curb & Gutter above:  
1. HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness  
Area = 116.3 Sq Yd  
116.3 Sq Yd x 112 lb/Sq Yd/Inch x 2.5 Inches = **16 Ton**  
2. Aggregate Base Course Weight Used = 2 Ton/Cu Yd  
120.4 Sq Yd x 2 Ton/Cu Yd x 8 Inch thickness = **54 Ton**

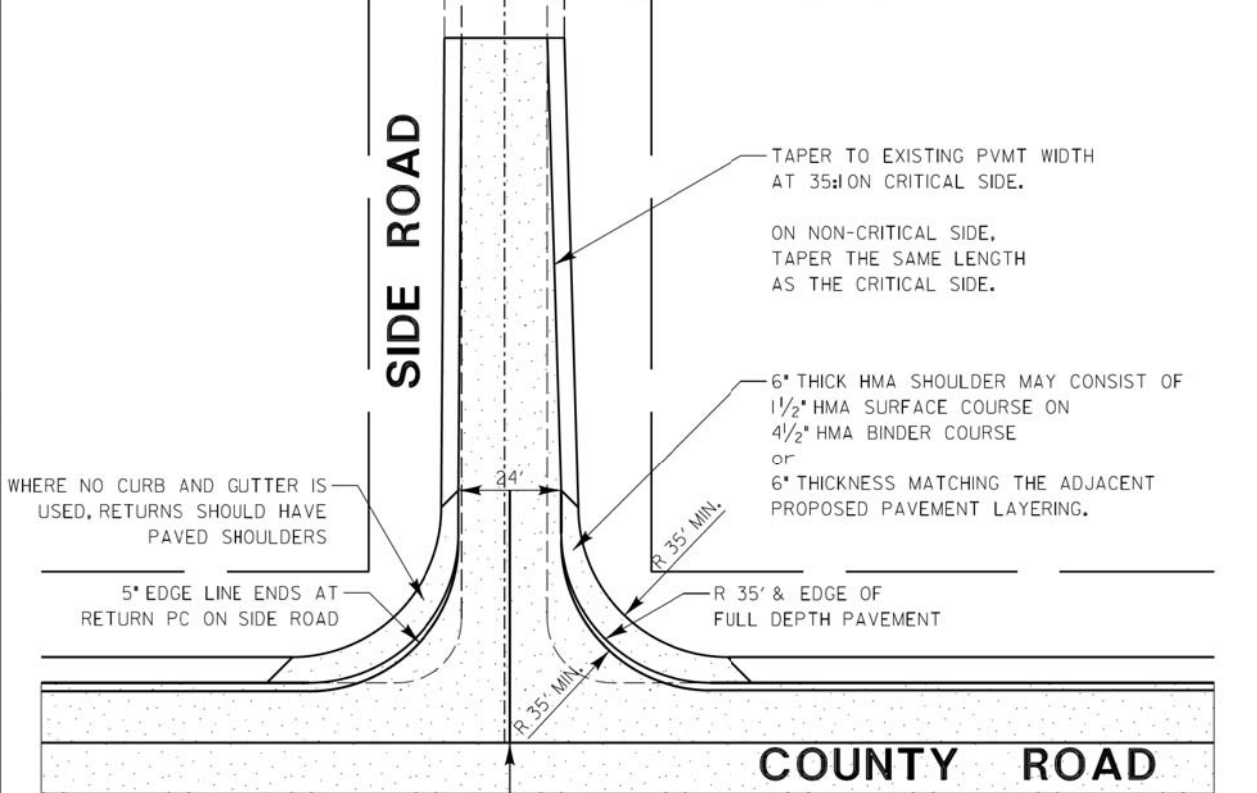
REVISIONS	DATE
Removed Prime Coat Qty	5/20/08
Revised Type A to Type B Aggregate	12/20/12
Revised Curb Transition	1/7/15

LakeCounty  
Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

**TYPICAL MAJOR ACCESS  
(COMMERCIAL ENTRANCE)**

LC4101



PROPOSED SIDE ROAD SHOULD BE CENTERED IN RIGHT-OF-WAY EVEN IF EXISTING IS NOT.

SCALE: 1" = 30'

REVISIONS	DATE

LakeCounty  
Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

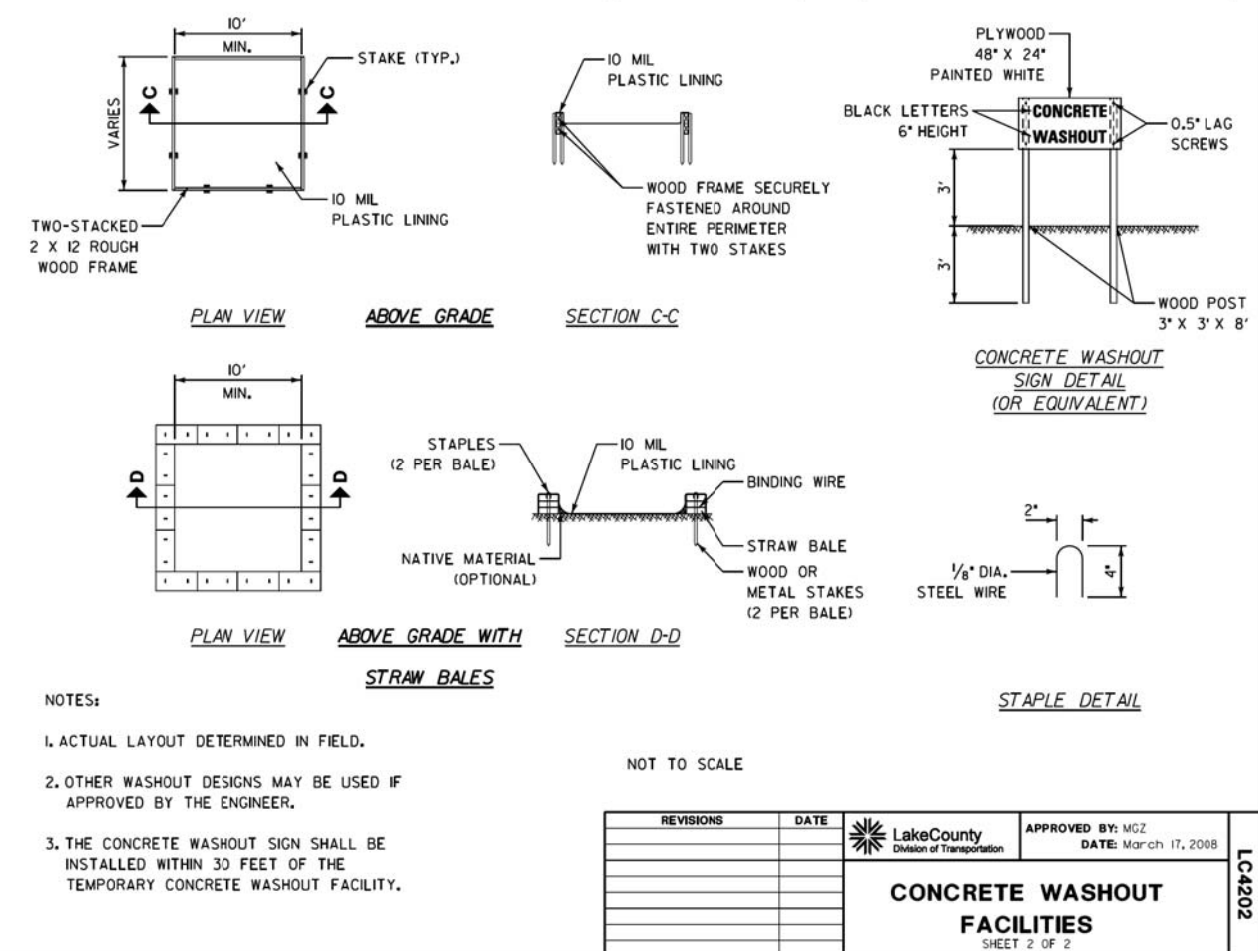
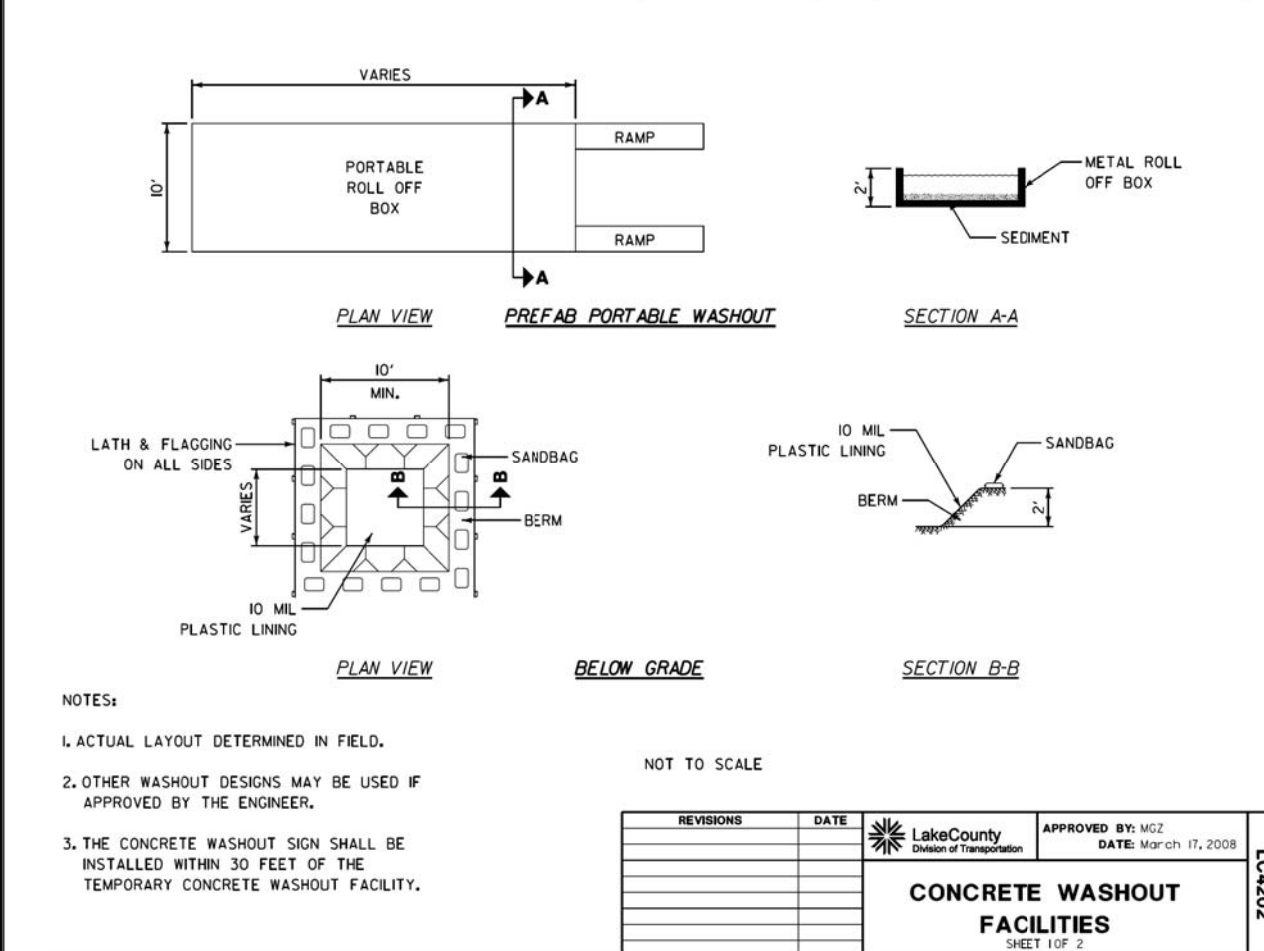
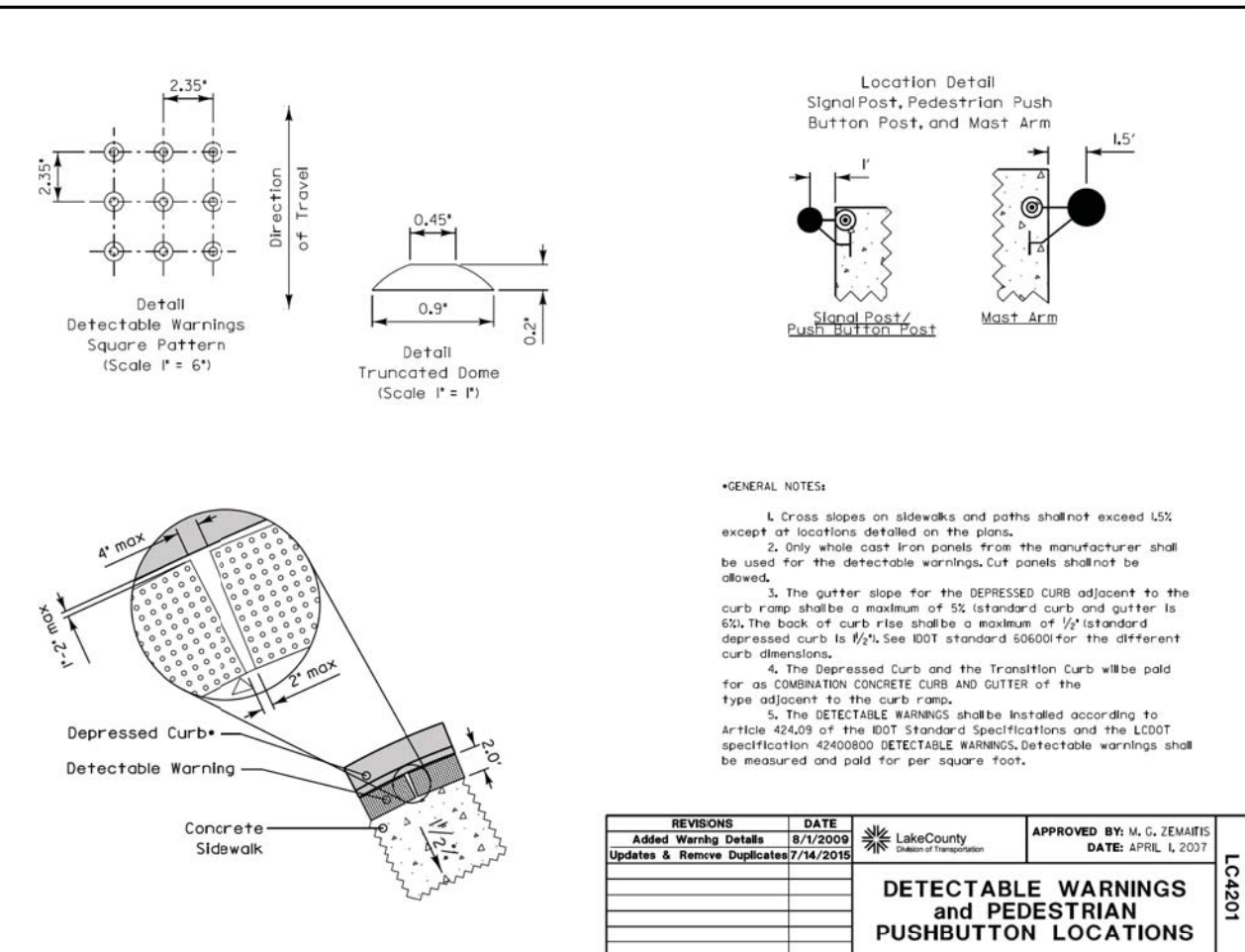
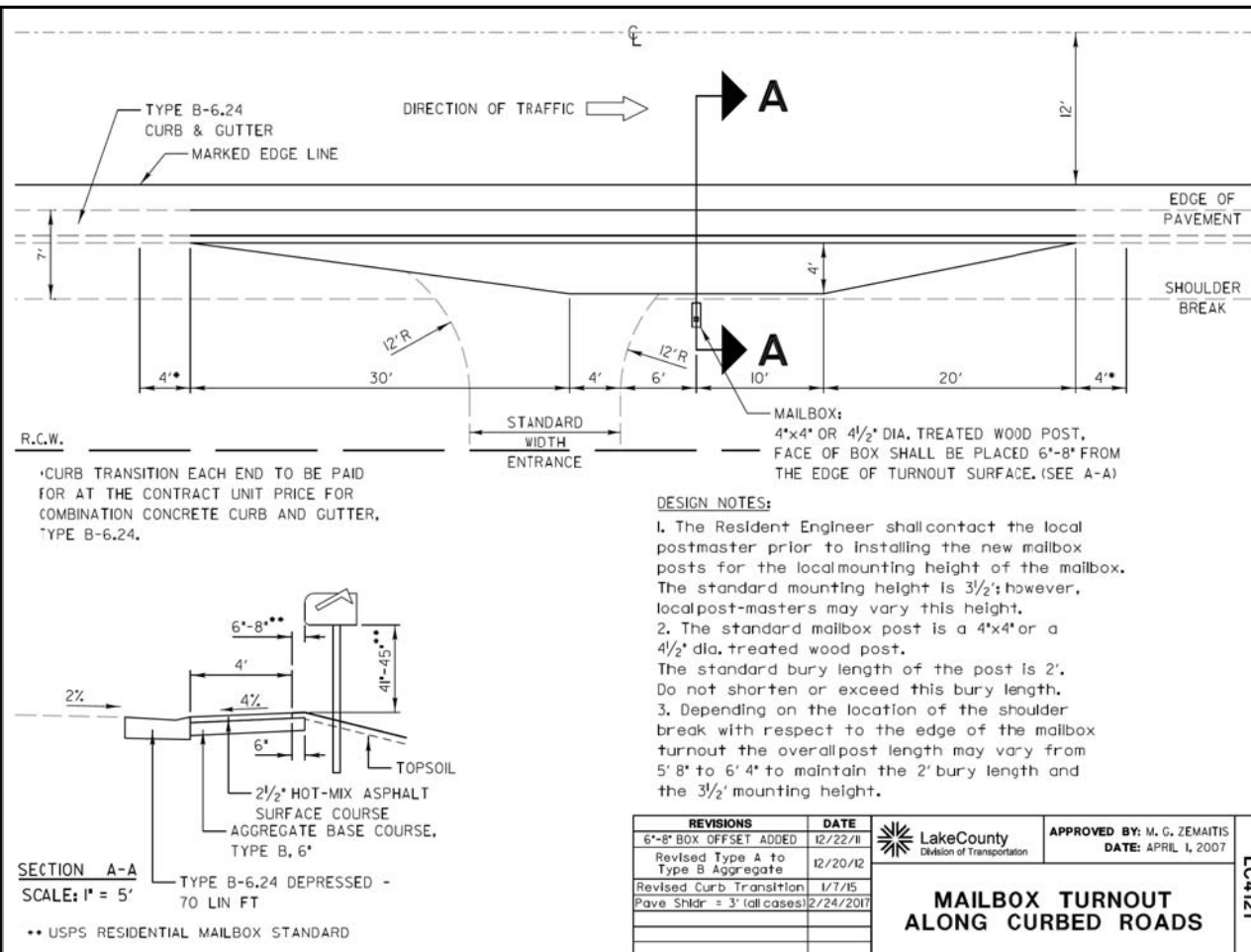
**TYPICAL MAJOR ACCESS  
(SIDE ROAD)**

LC4102



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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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SURVEYED	
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TEMPLATE	
AREAS CHECKED	
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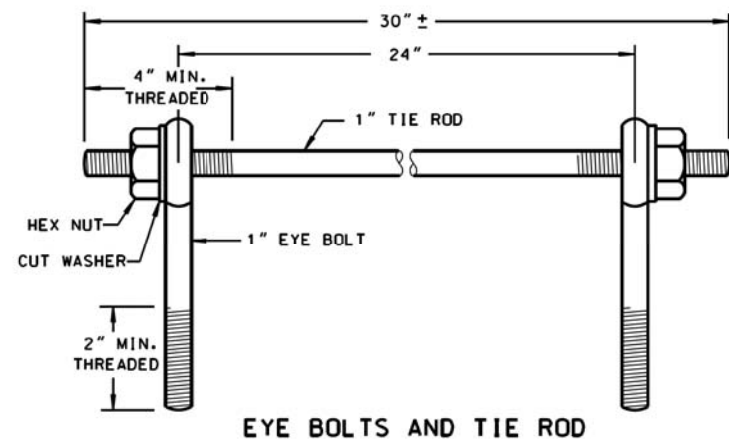




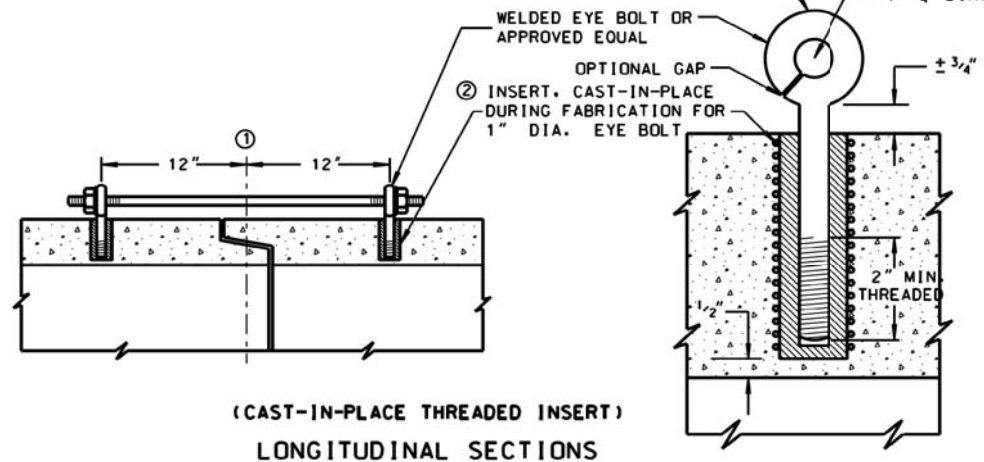


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 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
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 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
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 TEMPLATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
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EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)  
LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.

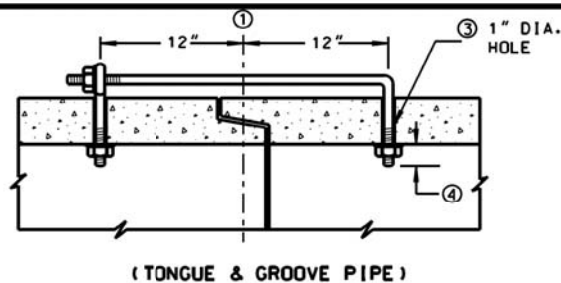
CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION

THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.

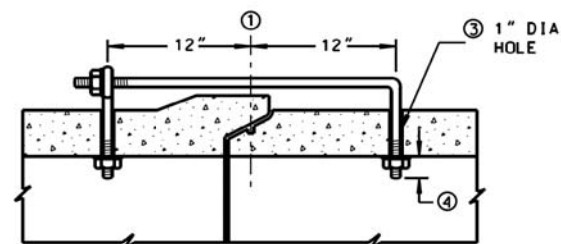
UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

- ① 1/2" OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM 1/2" OF TONGUE AND GROOVE.
- ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
- ⑤ OPENING TO BE ROD DIAMETER + 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



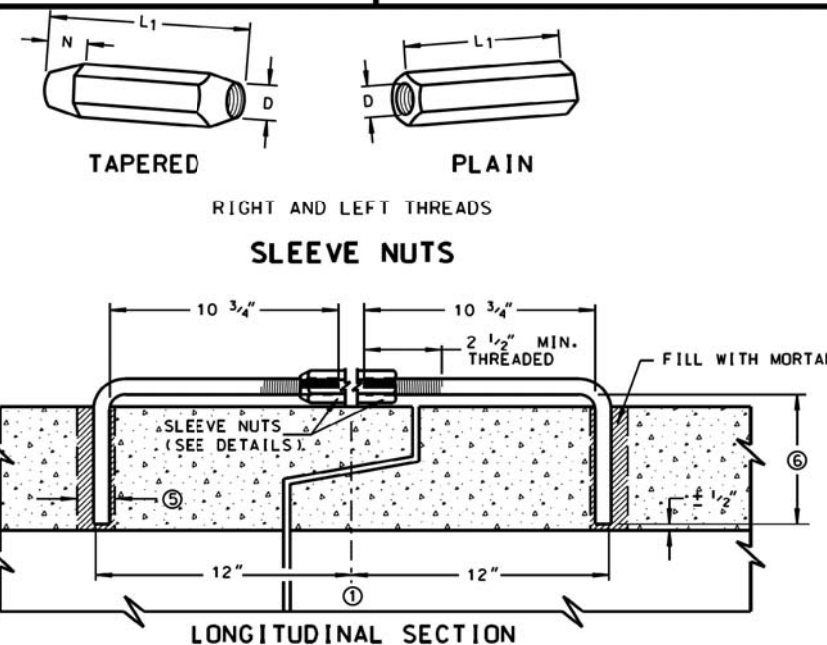
(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)  
LONGITUDINAL SECTION

**EYE BOLT DIMENSION TABLE**

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	7"
48"	6 1/2"	7"
60"	7 1/2"	7"
66"	8"	7"



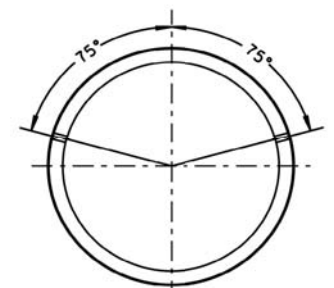
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)  
ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

**ADJUSTABLE TIE ROD TABLE**

PIPE DIAMETER	TIE ROD DIAMETER	D	L1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

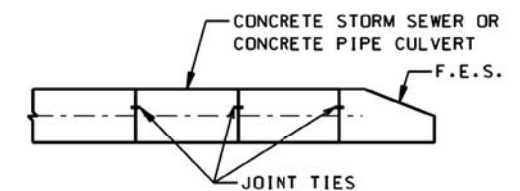
DIMENSIONS SHOWN ARE IN INCHES

NOT TO SCALE

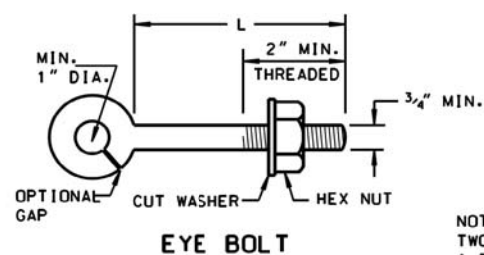


PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION

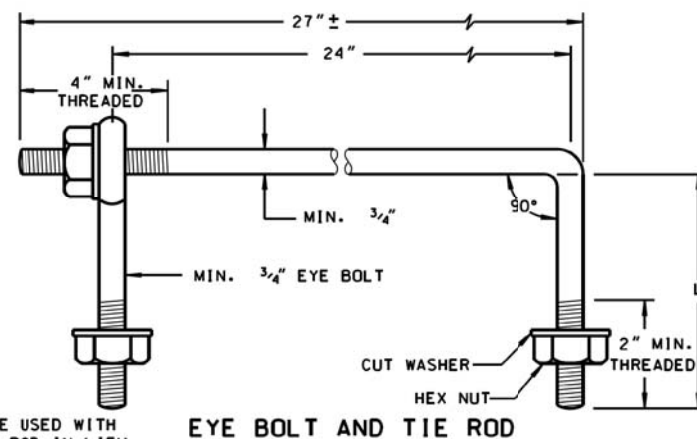


TYPICAL JOINT TIE LOCATIONS



EYE BOLT

NOTE:  
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

REVISIONS	DATE
ADDED JOINT TIE MAT'L	7/8/11

LakeCounty  
Division of Transportation

APPROVED BY: M. ZEMAITIS  
DATE: 04/01/11

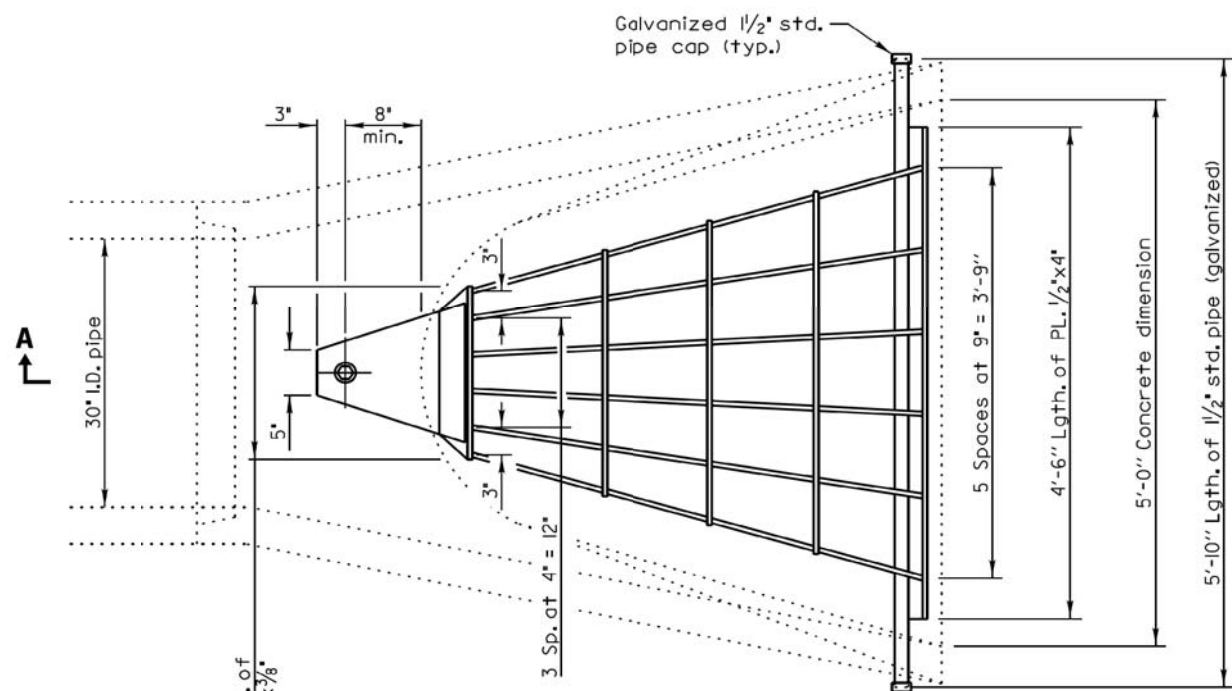
**JOINT TIES FOR CONCRETE PIPE**

LC5402

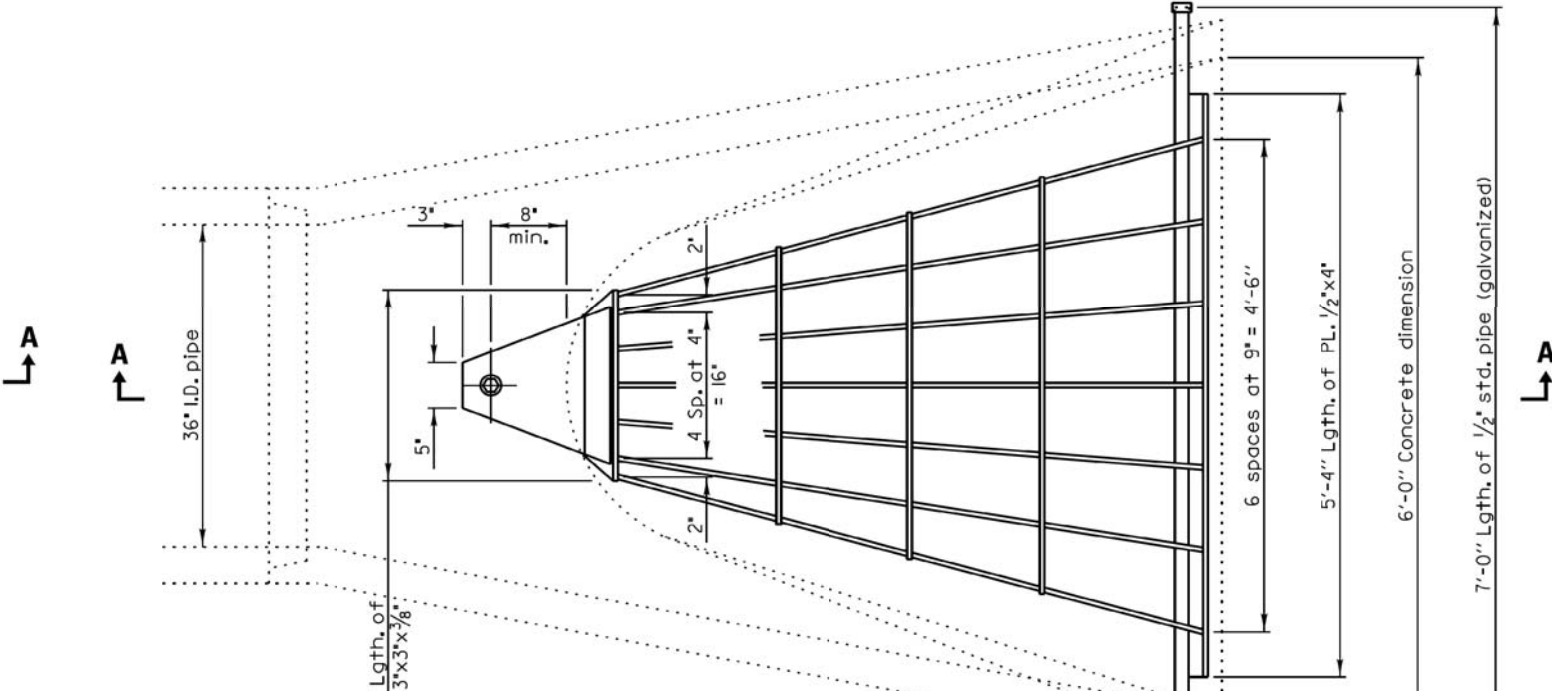


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NOTE BOOK	
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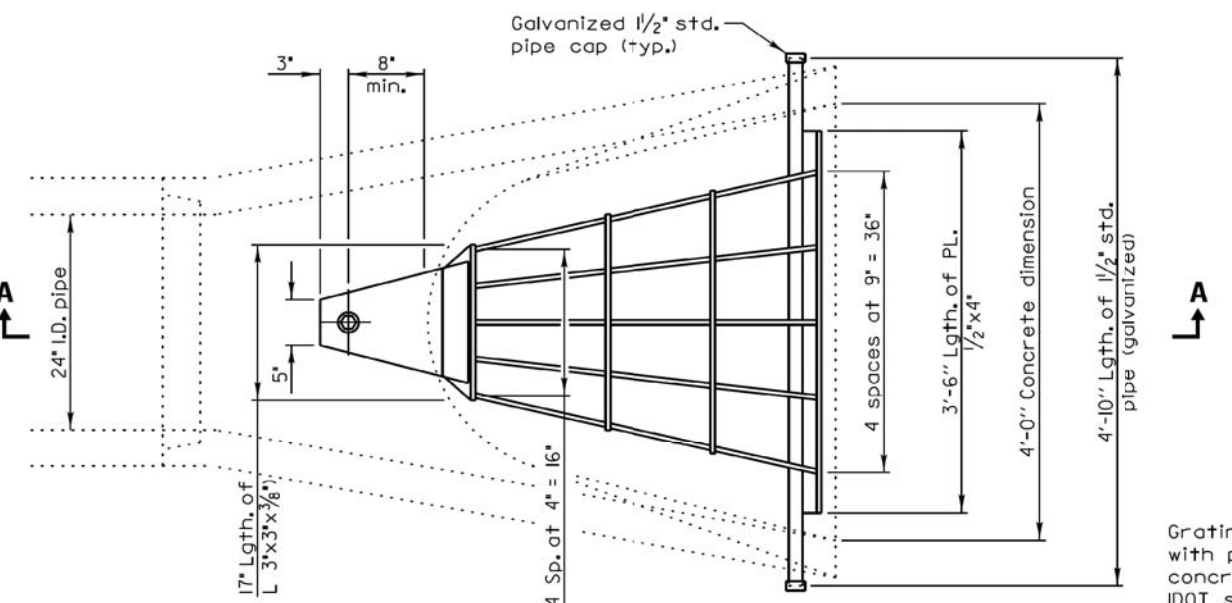
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NOTE BOOK	
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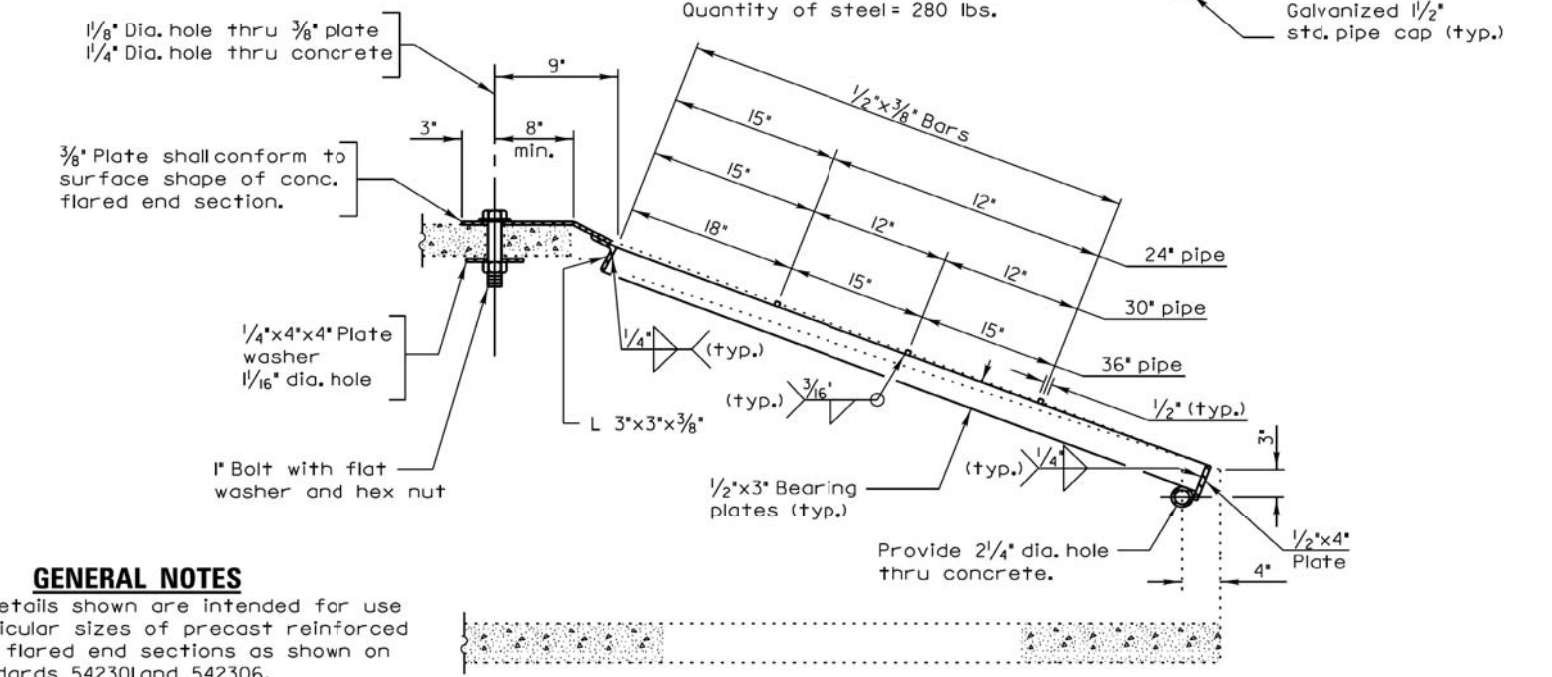
**PLAN**  
Quantity of steel = 210 lbs.



**PLAN**  
Quantity of steel = 280 lbs.



**PLAN**  
Quantity of steel = 150 lbs.



**GENERAL NOTES**  
Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on IDOT standards 542301 and 542306.

Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.

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

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: DEC. 18, 2014

**GRATING FOR CONCRETE FLARED END SECTIONS (24"-54")**

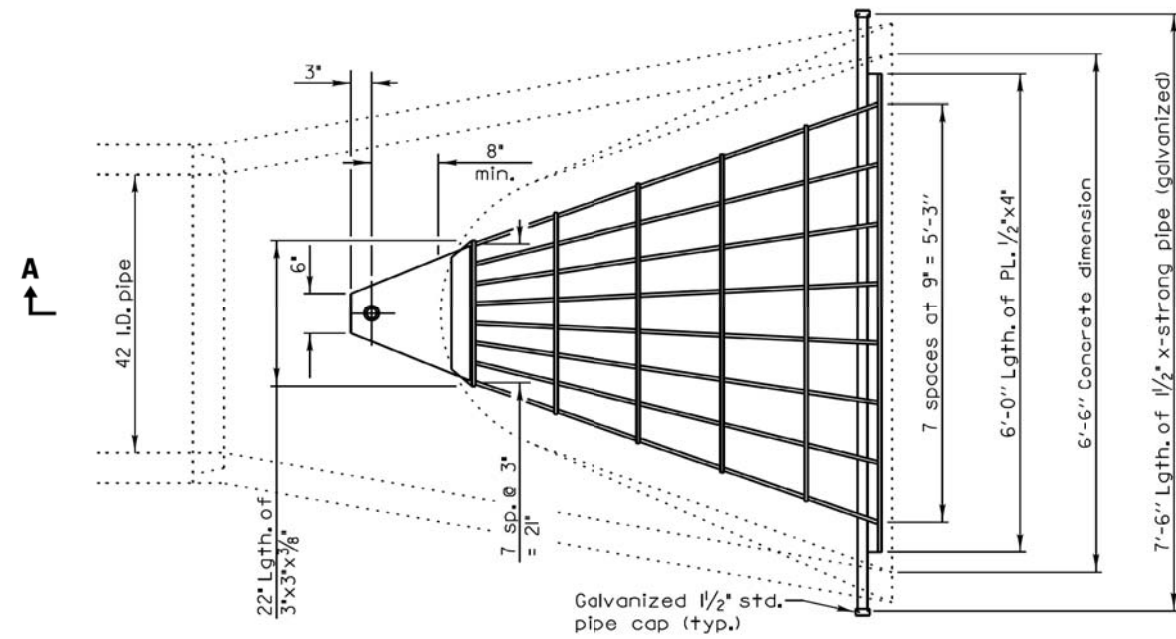
LC5403

SHEET 1 OF 2



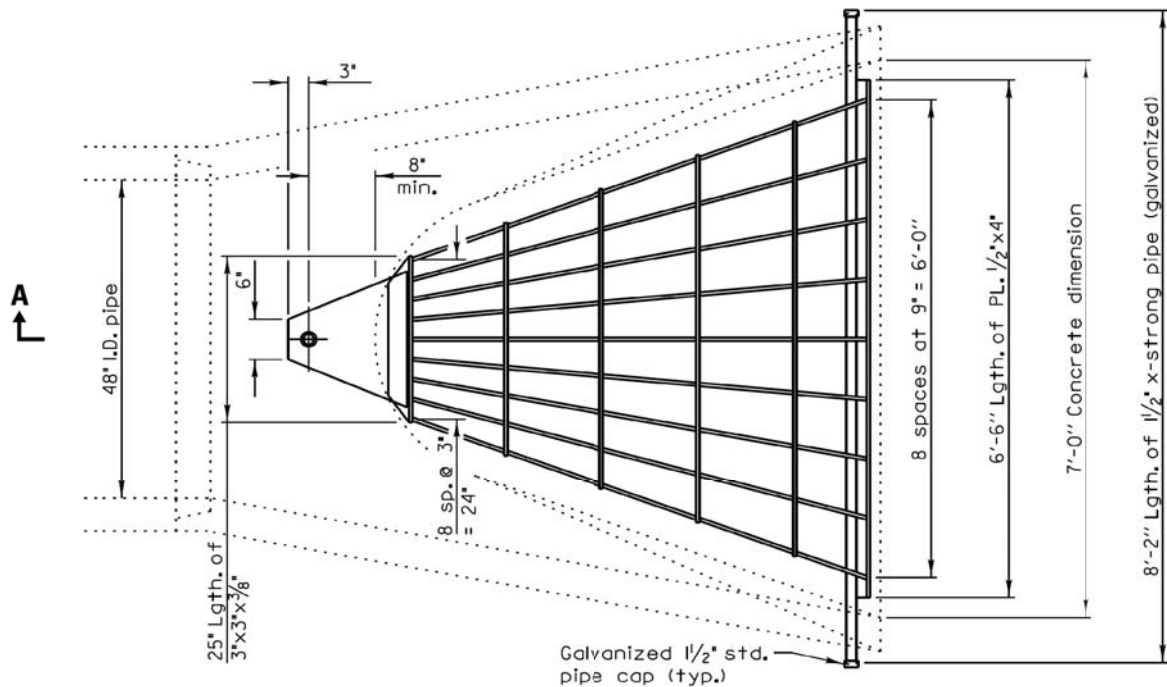
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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NOTE BOOK	AREAS CHECKED
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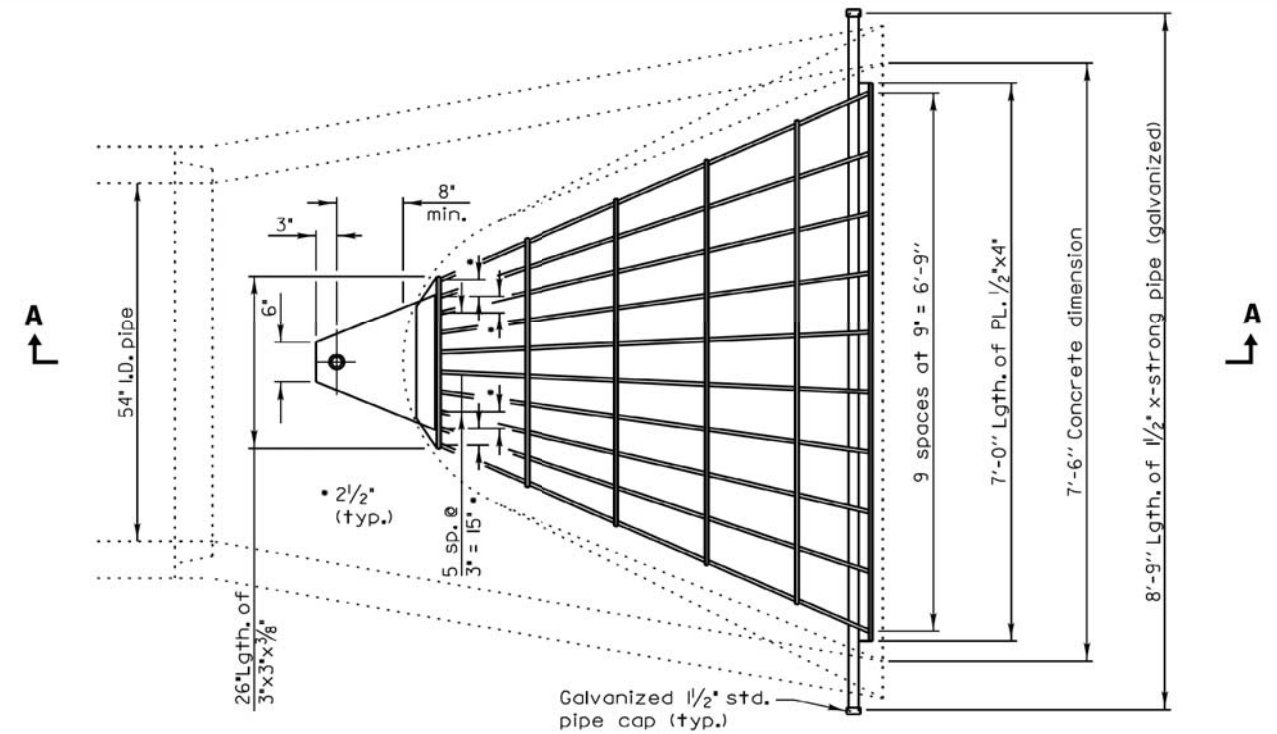
**PLAN**

Quantity of steel= 320 lbs.



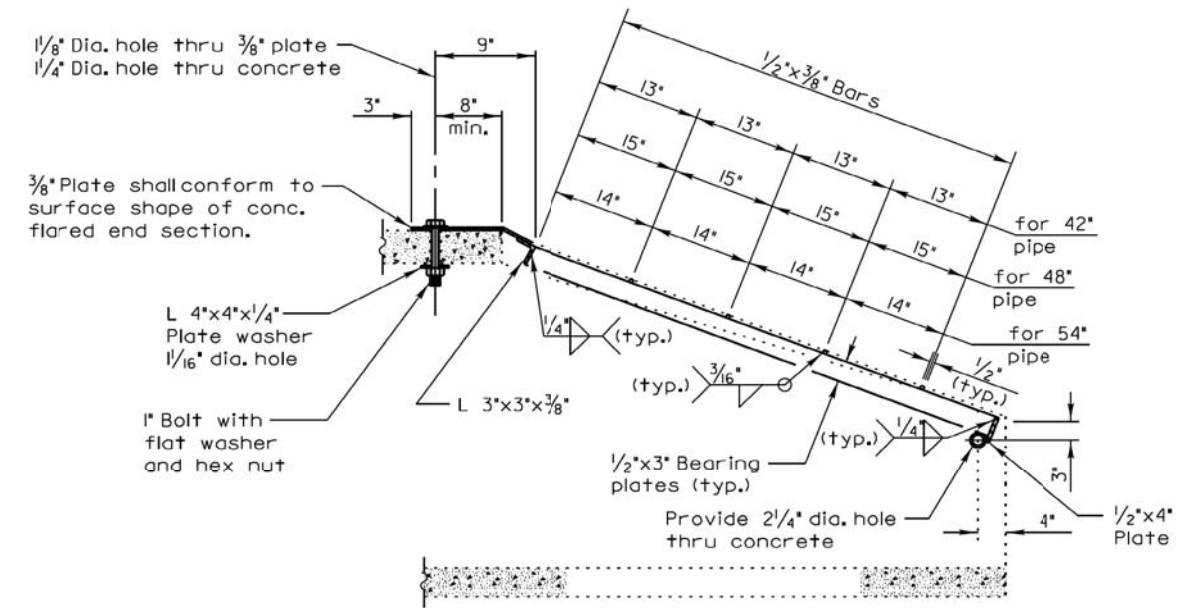
**PLAN**

Quantity of steel= 400 lbs.



**PLAN**

Quantity of steel= 425 lbs.



**SECTION A-A**

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
		DATE: DEC. 18, 2014

**GRATING FOR CONCRETE FLARED END SECTIONS (24"-54")**

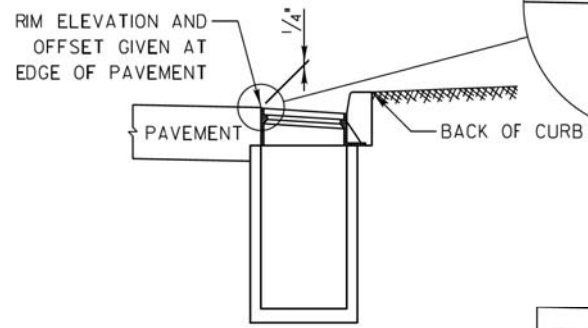
SHEET 2 OF 2



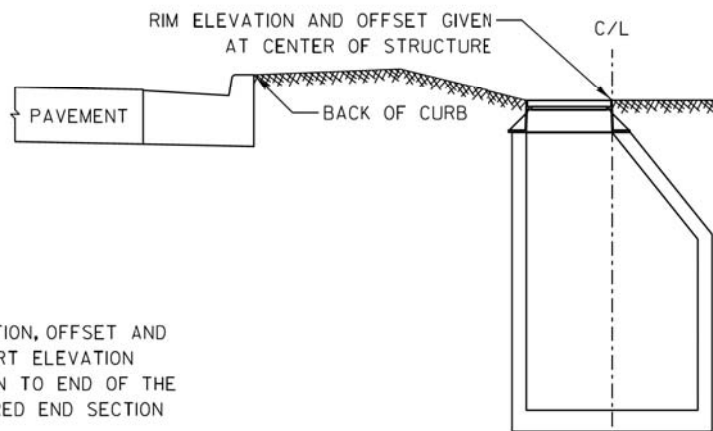
DATE	
BY	
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TEMPLATE	
AREAS CHECKED	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

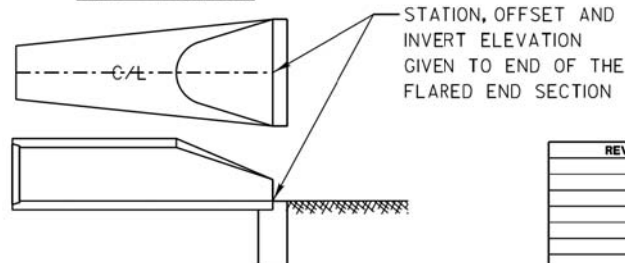
**DRAINAGE STRUCTURES  
(EDGE OF PAVEMENT)**



**DRAINAGE STRUCTURES  
(OUTSIDE EDGE OF PAVEMENT)**

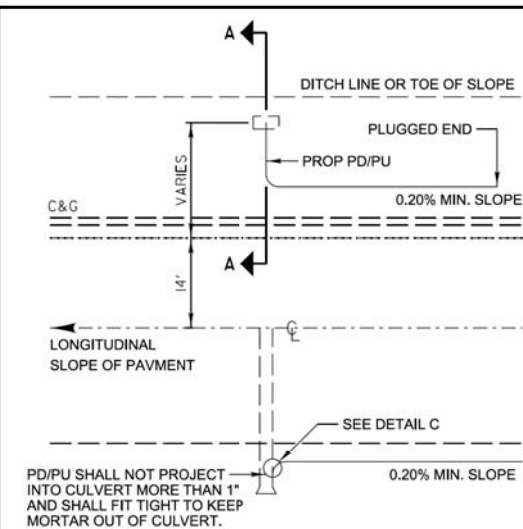


**END SECTION**



REVISIONS	DATE	APPROVED BY: MGZ DATE: 03/09/2012

**DRAINAGE STRUCTURE  
RIM ELEVATIONS AND  
OFFSETS**

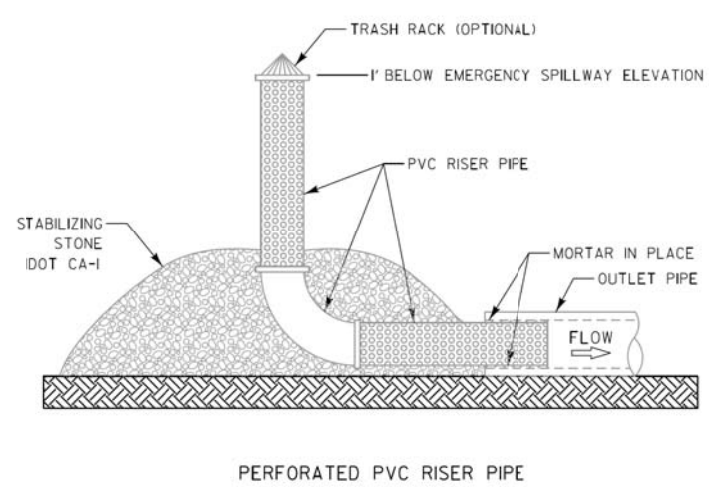
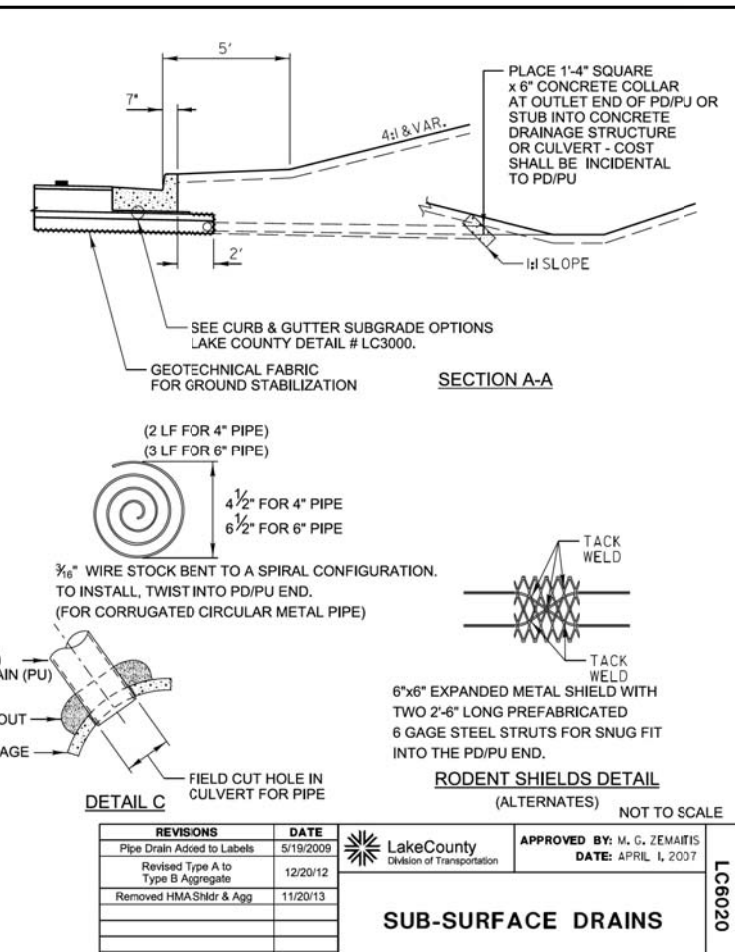


**TYPICAL PIPE DRAIN/ PIPE UNDERDRAIN OUTLET**

**DESIGN NOTES:**  
All work shall be according to the applicable portions of the "Standard Specifications" except as modified hereon.

In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.



**DESIGN NOTES:**

PVC RISER PIPE SHALL BE ONE SIZE SMALLER THAN OUTLET PIPE AND SHALL BE SECURELY FIXED TO THE INSIDE OF THE OUTLET PIPE WITH MORTAR.

PVC RISER SHALL HAVE 1" HOLES EVENLY SPACED AROUND THE CIRCUMFERENCE OF THE PIPE AS FOLLOWS:

PIPE DIA (IN)	NUMBER OF 1" HOLES PER LIN FT OF PIPE
5	25
6	30
8	40
10	50
12	60

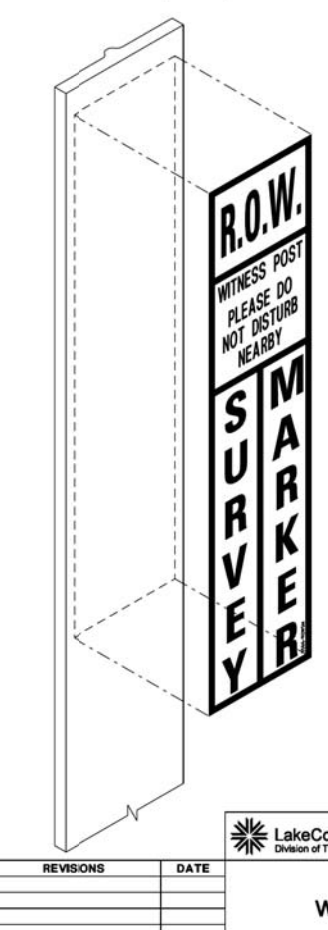
PVC RISER PIPE SHALL BE LOOSELY DOUBLE OR TRIPLE WRAPPED WITH CHICKEN WIRE OR 1/4" HARDWARE CLOTH AROUND BOTH MEMBERS AND WRAPPED ON THE OUTSIDE WITH A WOVEN MONOFILAMENT GEOTEXTILE.

PLACE SUFFICIENT CA-1 STONE TO HOLD THE RISER PIPE IN PLACE.

IF TRASH RACK IS PROVIDED, IT SHALL BE SECURELY FASTENED TO THE INLET. TRASH GUARD MAY BE FABRICATED FROM METAL RODS (1/8" DIA MIN) OR GALVANIZED WELDED WIRE FABRIC (16 GAGE MIN). THE SPACING BETWEEN VERTICAL MEMBERS SHOULD BE 1 INCH.

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: JAN. 22, 2014

**PERFORATED RISER  
PIPE DETAIL**



REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007

**WITNESS POST**



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

### TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE and UTILITY OPERATIONS

**ADVANCE WARNING SIGN SPACING TABLE**

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

**GENERAL NOTES:**  
 This special detail is used at any time, any vehicle, equipment, workers or their activities require a stationary, intermittent or continuous moving operation within 15 feet of the traffic lane, where the average speed is 1 mph or less.  
 \* Minimum distance "D" is shown in the Advance Warning Sign Spacing Table. If the work is a moving operation, the maximum distance "D" may be extended to 1/2 the length required for one normal working day's operation or 4 miles, whichever is less.  
 If the work operation does not exceed 60 minutes, traffic control may be according to I.D.O.T. Highway Standard 701301.

**SYMBOLS**

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN WHEN REQUIRED

**MODIFIED IDOT STANDARD 701011-04**

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

**TWO LANE, TWO WAY, OFF-ROAD OPERATIONS DAY OPERATIONS ONLY**

NOT TO SCALE

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

### TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE and UTILITY OPERATIONS

**GENERAL NOTE:**  
 This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement or where construction requires lane closures.

**DESIGN NOTES:**

- For a side road with a speed limit of 40 mph or less, the closed portion of the main route shall be protected by blocking with Type II barricades or drums, 1/3 of the cross section of the closed portion of the roadway.
- For a side road with a speed limit of 45 mph or greater, the closed portion of the main route shall be protected by blocking with Type II barricades or drums, 1/2 of the cross section of the closed portion of the roadway.
- All W20-1 "ROAD WORK AHEAD" signs shall be 48"x48" with fluorescent orange reflective sheeting with an amber Type A flashing light mounted on the sign.
- When the side road lies between the beginning of the mainline signing and the work zone, a M6-1 Single Headed Arrow shall be used in lieu of the M6-4 Double Headed Arrow.
- For a lane closure on a side road, use the applicable portions of the appropriate Highway Standard or Traffic Control Detail. The spacing of the signs and barricades or drums shall be adjusted for field conditions as directed by the engineer. The directional arrow shall be covered or removed when no longer consistent with the side road closure.
- Advance warning signs shall be omitted on driveways unless otherwise noted.
- The traffic control and protection for side roads and intersections shall be included in the contract lump sum price for "TRAFFIC CONTROL AND PROTECTION, SPECIAL."

**SYMBOLS**

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE W/TYPE A FLASHING LIGHT
- DRUM WITH STEADY BURNING LIGHT

**ADVANCE WARNING SIGN SPACING TABLE**

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

**MODIFIED IDOT DISTRICT ONE SIDE ROAD DETAIL**

**LakeCounty** APPROVED BY: ANTHONY KHAWAJA DATE: APRIL 1, 2007

**TRAFFIC CONTROL and PROTECTION for SIDEROADS, INTERSECTIONS and DRIVEWAYS**

NOT TO SCALE

### TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE and UTILITY OPERATIONS

**GENERAL NOTE:**  
 This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

**DESIGN NOTES:**

- All warning signs shall have minimum dimensions of 48"x48". The Engineer may approve signs measuring 36"x36" when the posted speed limit is 30 mph or less.
- All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7' above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the Engineer.
- The distance "L" shall be defined as:  
 $L = LW \times S$   
 L = Length of Closure in FEET  
 S = Normal Posted Speed Limit in MPH  
 LW = Lane Width in FEET
- Type II barricades with Type C steady burning lights shall be used in lieu of cones for night operations. All cones and barricades shall be according to IDOT Standard 701901.
- For raised median operations, where the raised median is less than 10' signing shall not be installed on the median. No signing shall be installed on any painted median.
- If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for IDOT Standard 701301. Signs, when required, shall be at the spacing specified in the advance warning sign spacing table.
- If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.
- Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series and the high level warning devices.
- Longitudinal dimensions may be adjusted to fit field conditions.
- Form BT 725 is required.

**ADVANCE WARNING SIGN SPACING TABLE**

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS		
	"A"	"B"	"C"
40 MPH or less	400 FEET	200 FEET	200 FEET
45-50 MPH	400 FEET	350 FEET	350 FEET
55 MPH	500 FEET	500 FEET	500 FEET

**SYMBOLS**

- WORK AREA
- CONE, BARRICADE, OR DRUM
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- TYPE II BARRICADE W/TYPE A FLASHING LIGHT
- HIGH LEVEL WARNING DEVICE \*\*
- FLAGGER WITH TRAFFIC CONTROL SIGN

**MODIFIED IDOT STANDARD 701701-10**

**LakeCounty** APPROVED BY: ANTHONY KHAWAJA DATE: APRIL 1, 2007

**URBAN LANE CLOSURE MULTILANE INTERSECTION**

NOT TO SCALE

### DIRECTION INDICATOR BARRICADES

**GENERAL NOTES**

- Direction Indicator Barricades shall be constructed from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.
- The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.
- The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective sheeting.

**MODIFIED IDOT DISTRICT ONE SIDE ROAD DETAIL**

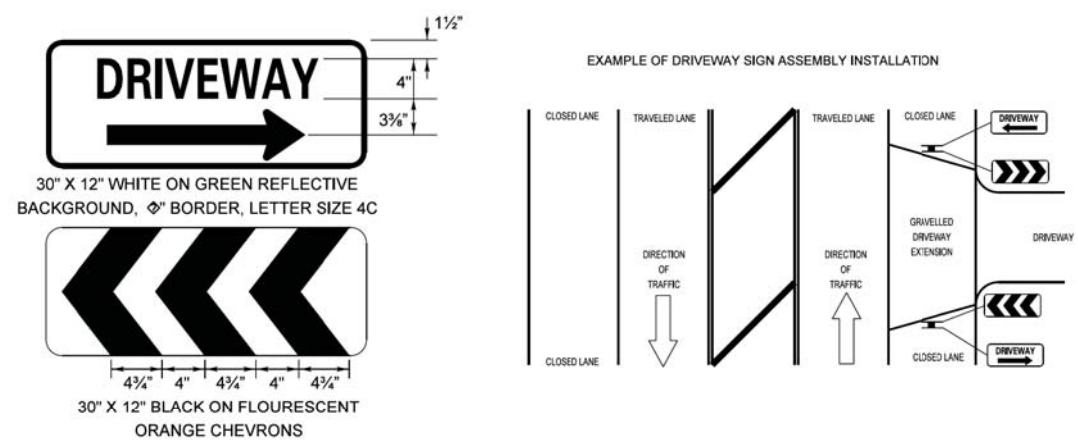
**LakeCounty** APPROVED BY: ANTHONY KHAWAJA DATE: APRIL 1, 2007

**TRAFFIC CONTROL and PROTECTION for SIDEROADS, INTERSECTIONS and DRIVEWAYS**

NOT TO SCALE



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



- TEMPORARY CONSTRUCTION INFORMATION SIGNING NOTES:
1. The driveway and chevron signs shall be mounted back to back on the near side of the roadway where the entrance is located. There will be two sign assemblies per driveway.
  2. Temporary construction information signs shall be post mounted 7' above the near edge of pavement and shall be a minimum of 6' beyond the edge of the nearest traveled lane, or as directed by the Engineer.
  3. The retroreflective sign face shall be a minimum of Type "A" material.
  4. The temporary construction information signs shall be removed or relocated when the Engineer determines the signs to be no longer necessary.
  5. Existing traffic control signs and messages that are in conflict with the proposed maintenance of traffic shall be covered or modified with a temporary overlay as shown in the plans and/or as directed by the Engineer.
  6. Install additional temporary sign panel assemblies as shown in the plans and/or directed by the Engineer.

REVISIONS	DATE	LakeCounty	APPROVED BY: A. KHAWAJA
Revised Signs & Text	1/1/09	Division of Transportation	DATE: APRIL 1, 2007
Text Update	7/15/11		

**TEMPORARY CONSTRUCTION INFORMATION SIGNS**  
SHEET 1 OF 2

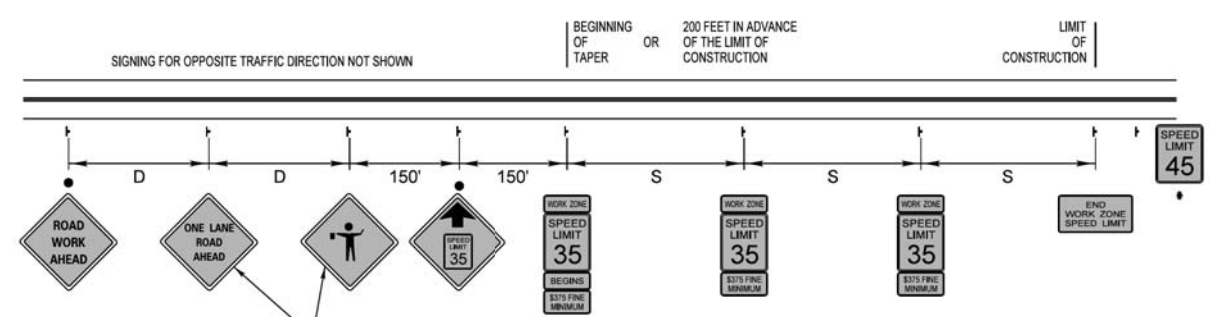


48" X 36"  
BLACK ON FLUORESCENT ORANGE  
REFLECTIVE BACKGROUND  
1" BORDER WITH 1/4" NSET  
LETTER SIZE 6D  
\*LETTER SIZE 6E BOLD

REVISIONS	DATE	LakeCounty	APPROVED BY: A. KHAWAJA
Revised Signs & Text	1/1/09	Division of Transportation	DATE: APRIL 1, 2007
Text Update	7/15/11		

**TEMPORARY CONSTRUCTION INFORMATION SIGNS**  
SHEET 2 OF 2

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



NOTE: SPEED LIMIT VALUES SHOWN FOR EXAMPLE ONLY

ADVANCE WARNING SIGN SPACING TABLE	
ROAD TYPE (EXISTING SPEED LIMIT)	DISTANCE BETWEEN SIGNS "D"
URBAN-LOW SPEED (40 MPH or less)	200 FEET
URBAN-HIGH SPEED (45-50 MPH)	350 FEET
RURAL (55 MPH or greater)	500 FEET

WORK ZONE SPEED LIMIT SIGN SPACING	
WORK ZONE SPEED LIMIT	DISTANCE BETWEEN SIGNS "S"
35 TO 40 MPH	990 FEET TO 1,980 FEET
45 TO 50 MPH	1,320 FEET TO 2,640 FEET

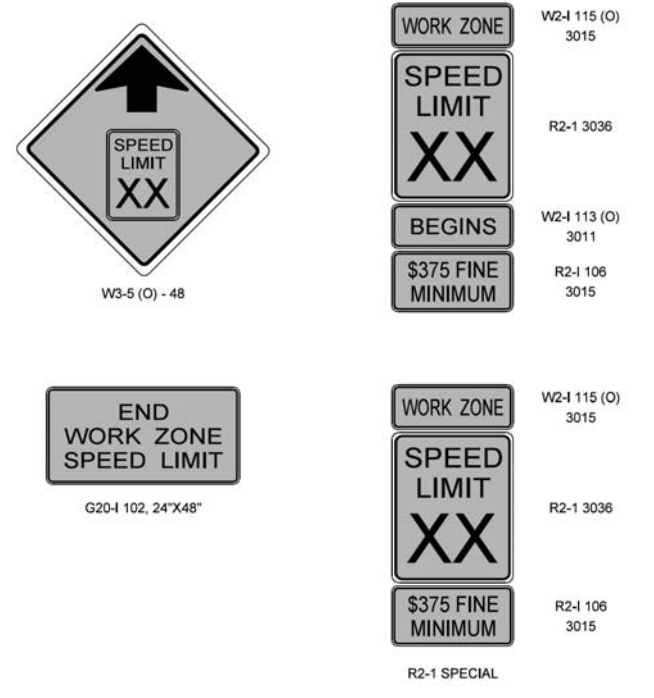
NOTES:

1. \* = EXISTING SPEED LIMIT BEFORE CONSTRUCTION.
2. THE SIGN SPACING BETWEEN WORK ZONE SPEED LIMIT SIGNS SHALL BE THE SAME AS COMPARABLE REGULAR SPEED LIMIT SIGNING AS STATED IN THE L.C.D.O.T. POLICY FOR THE ESTABLISHMENT AND POSTING OF SPEED LIMITS ON COUNTY AND TOWNSHIP HIGHWAYS WITHIN LAKE COUNTY, ILLINOIS. A MINIMUM OF 2 WORK ZONE SPEED LIMIT SIGNS SHALL BE REQUIRED PER DIRECTION OF TRAFFIC.
3. EXISTING SPEED LIMIT SIGNS AND POST SHALL BE REMOVED AND RETURNED TO THE L.C.D.O.T.'S SIGN SHOP WITHIN 24 HOURS OF REMOVAL.
4. ON MULTILANE HIGHWAYS, WORK ZONE SPEED LIMIT AND ADVANCE CONSTRUCTION SIGNING SHALL BE ON THE RIGHT SIDE RIGHT-OF-WAY AND THE LEFT MEDIAN, WHEN THE MEDIAN IS NOT PAVED AND THE WIDTH IS 10 FEET OR GREATER.
5. ALL SIGNS SHALL BE PERMANENTLY POST MOUNTED IF THE SIGNS WILL BE DISPLAYED FOR MORE THAN 48 HOURS.

REVISIONS	DATE	LakeCounty	APPROVED BY: A. KHAWAJA
Reformat LCDOT Standard	7/15/10	Division of Transportation	DATE: 4/14/09
Revised Labels	6/26/12		

**WORK ZONE SPEED LIMIT SIGNING DIAGRAM**  
(SHEET 1 OF 2)

**WORK ZONE SPEED LIMIT SIGNS**



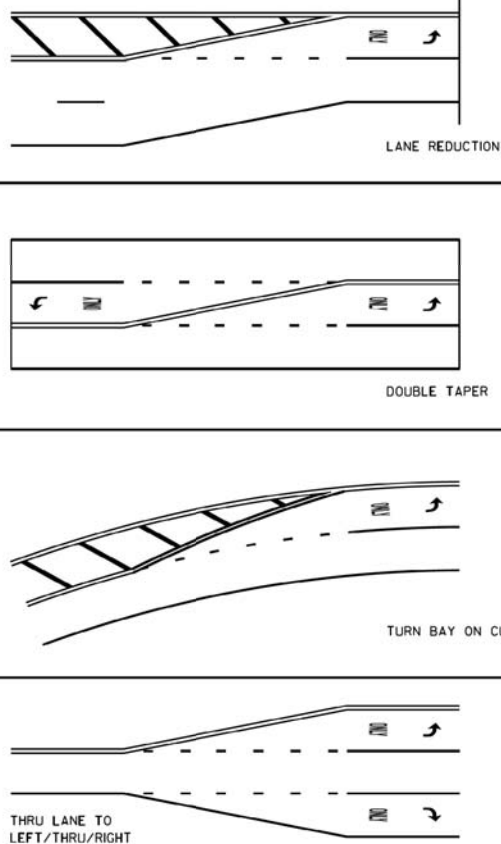
REVISIONS	DATE	LakeCounty	APPROVED BY: A. KHAWAJA
Reformat LCDOT Standard	7/15/10	Division of Transportation	DATE: 4/14/09
Revised Labels	6/26/12		

**WORK ZONE SPEED LIMIT SIGNING DIAGRAM**  
(SHEET 2 OF 2)

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

DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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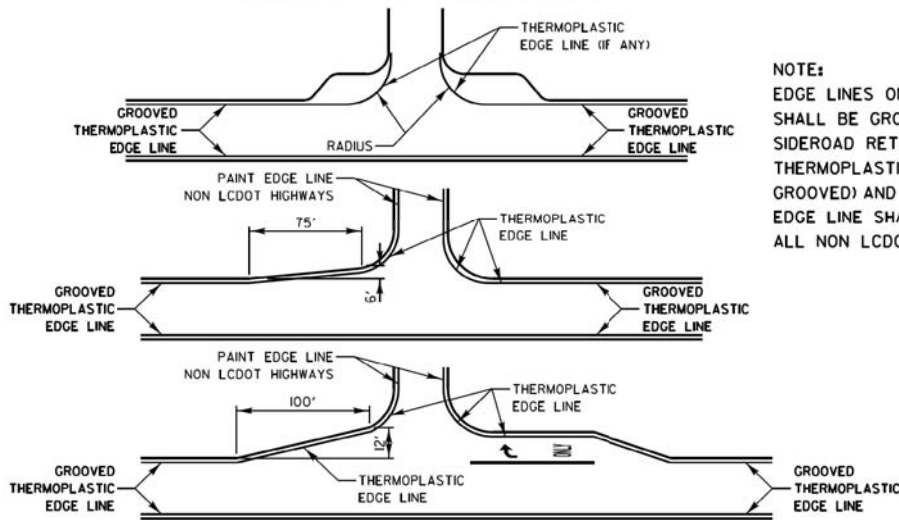
**TYPICAL MINI-SKIP PAVEMENT MARKINGS**



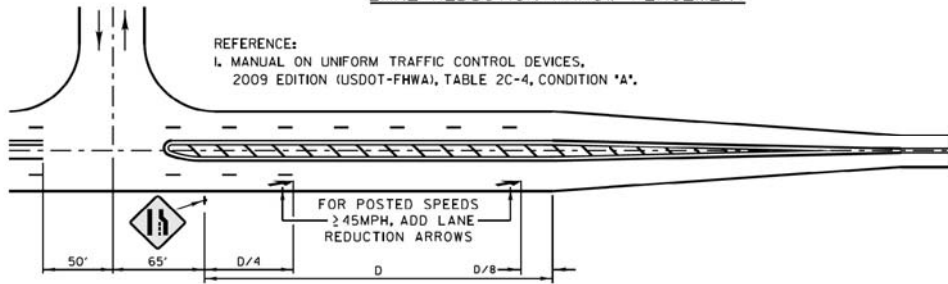
MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE. IT EXTENDS.

**TYPICAL PAVEMENT MARKINGS**

**EDGE LINE RADII AT SIDE STREETS**

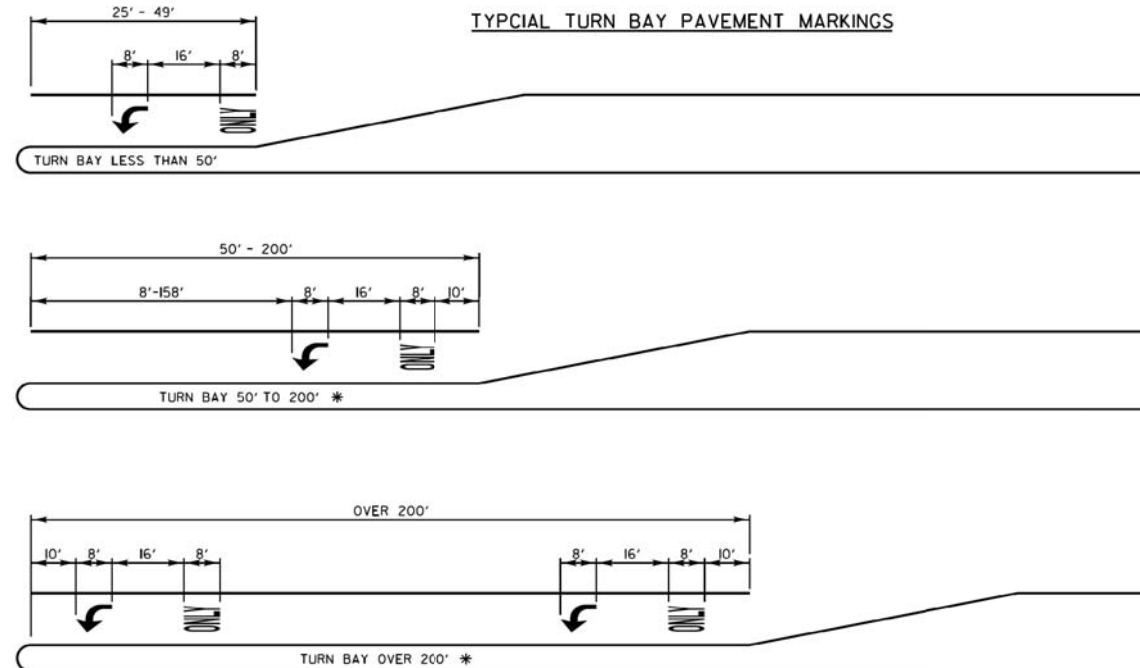


**LANE REDUCTION ARROW PLACEMENT**



DESIGN SPEED MPH	D (FEET)
<45	VARIES
45	775' [D]
50	885' [D]
55	990' [D]

**TYPICAL TURN BAY PAVEMENT MARKINGS**



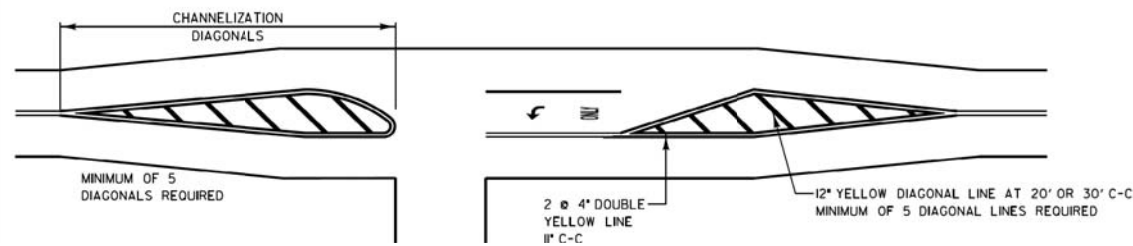
\* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

ONLY 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'.

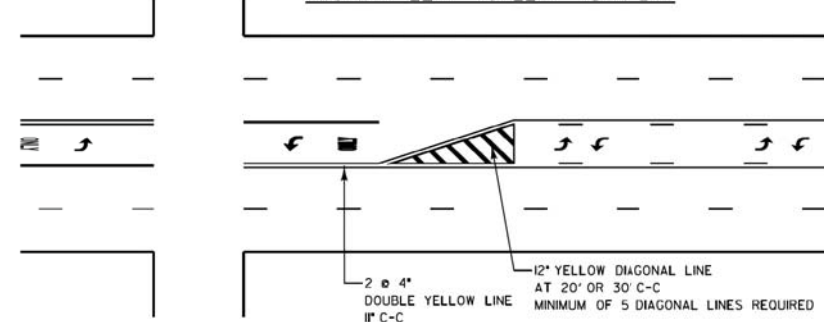
**TWO LANE ROAD**



**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.

**TWO-WAY LEFT TO LEFT TURN BAY**



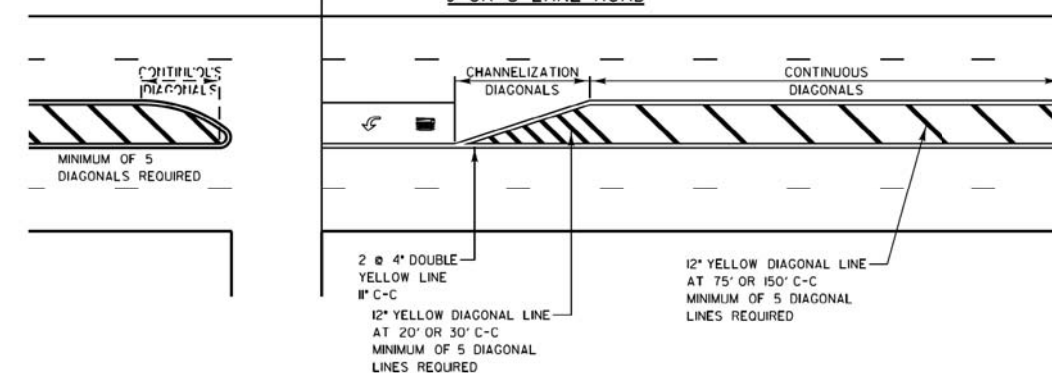
**DUAL LEFT TURN ARROWS**



3 1/2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

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'.

**3 OR 5 LANE ROAD**



REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOP BAR/DBL YELLOW	8/31/17



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

**TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS**

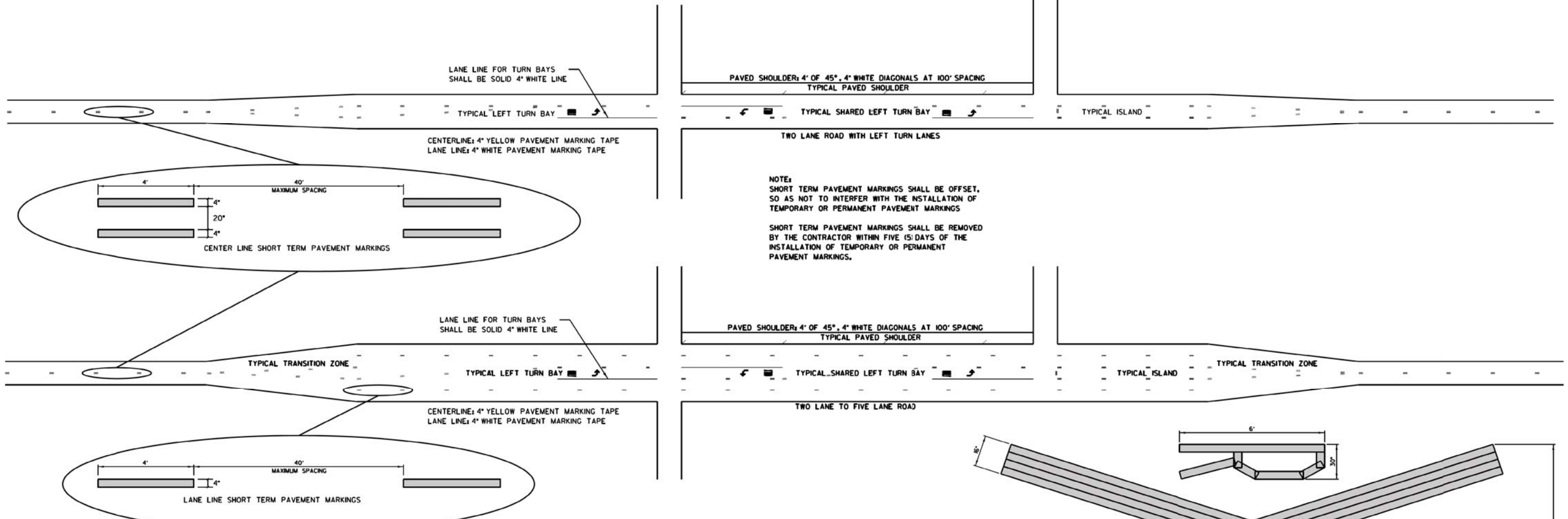
SHEET 1 OF 2

LC7800



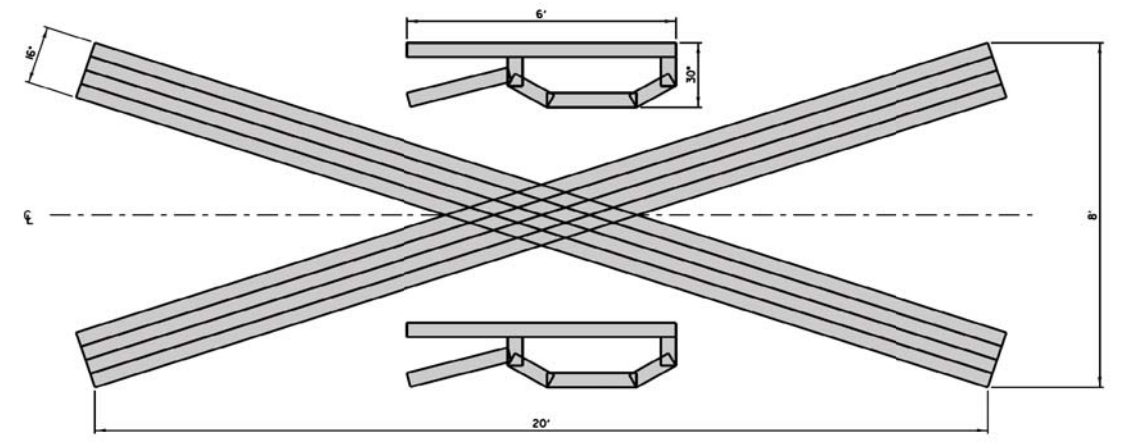


# TYPICAL SHORT TERM PAVEMENT MARKINGS

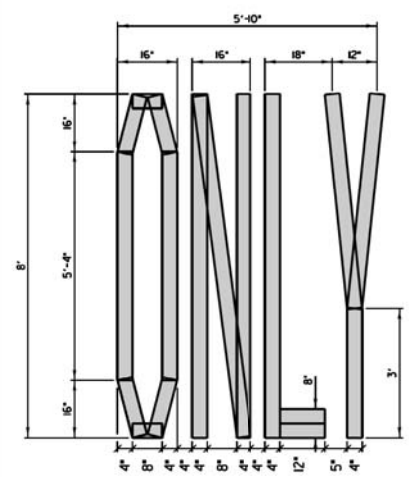


**NOTE:**  
 SHORT TERM PAVEMENT MARKINGS SHALL BE OFFSET, SO AS NOT TO INTERFERE WITH THE INSTALLATION OF TEMPORARY OR PERMANENT PAVEMENT MARKINGS.

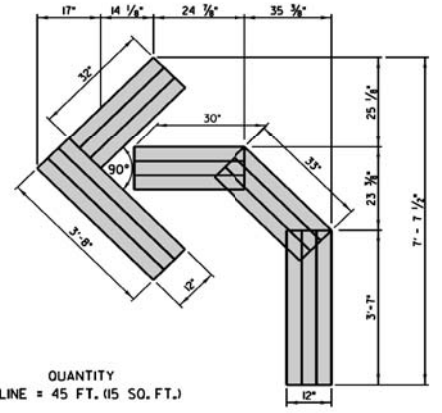
SHORT TERM PAVEMENT MARKINGS SHALL BE REMOVED BY THE CONTRACTOR WITHIN FIVE (5) DAYS OF THE INSTALLATION OF TEMPORARY OR PERMANENT PAVEMENT MARKINGS.



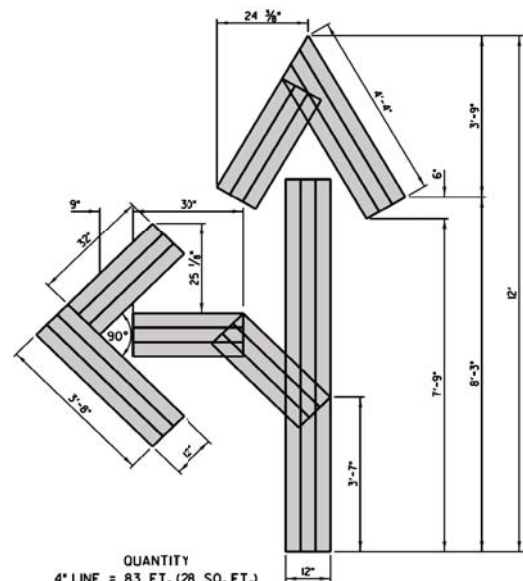
QUANTITY  
 4" LINE = 200 FT. (67 SO. FT.)  
 ("X" = 172 FT.)  
 ("R" = M FT.)



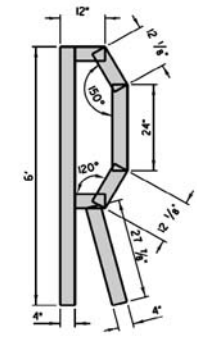
QUANTITY:  
 4" LINE = 64 FT. (21 SO. FT.)



QUANTITY  
 4" LINE = 45 FT. (15 SO. FT.)



QUANTITY  
 4" LINE = 83 FT. (28 SO. FT.)



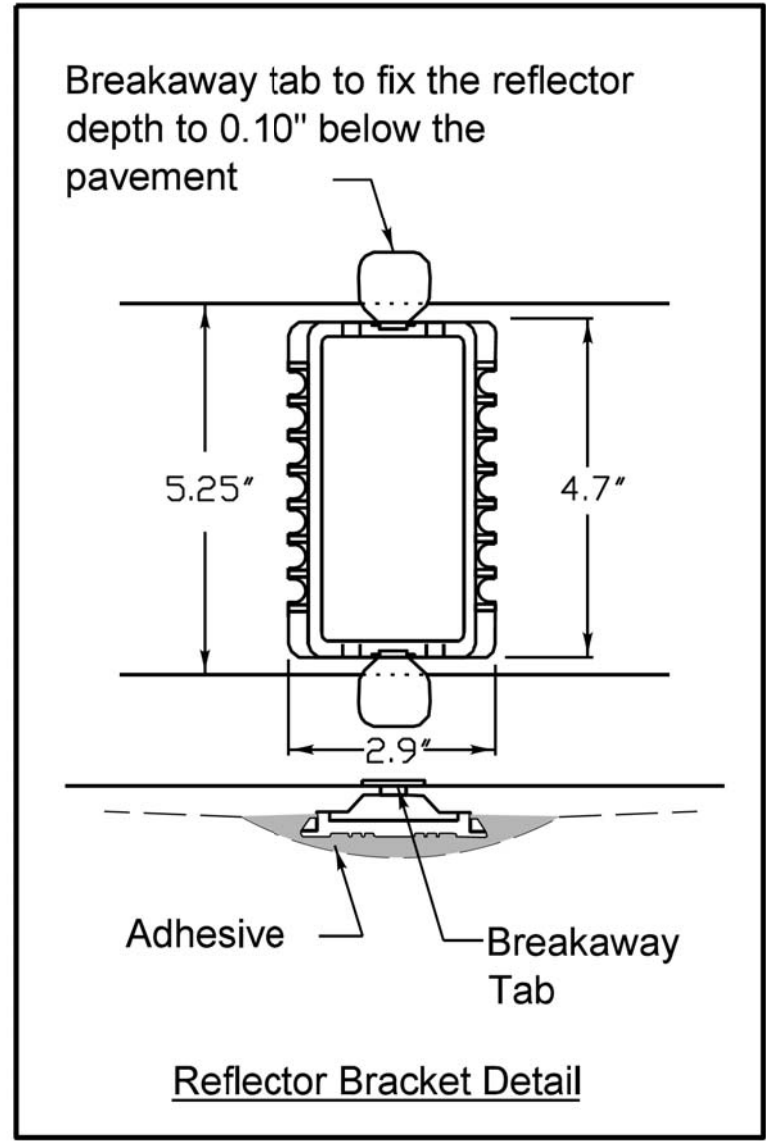
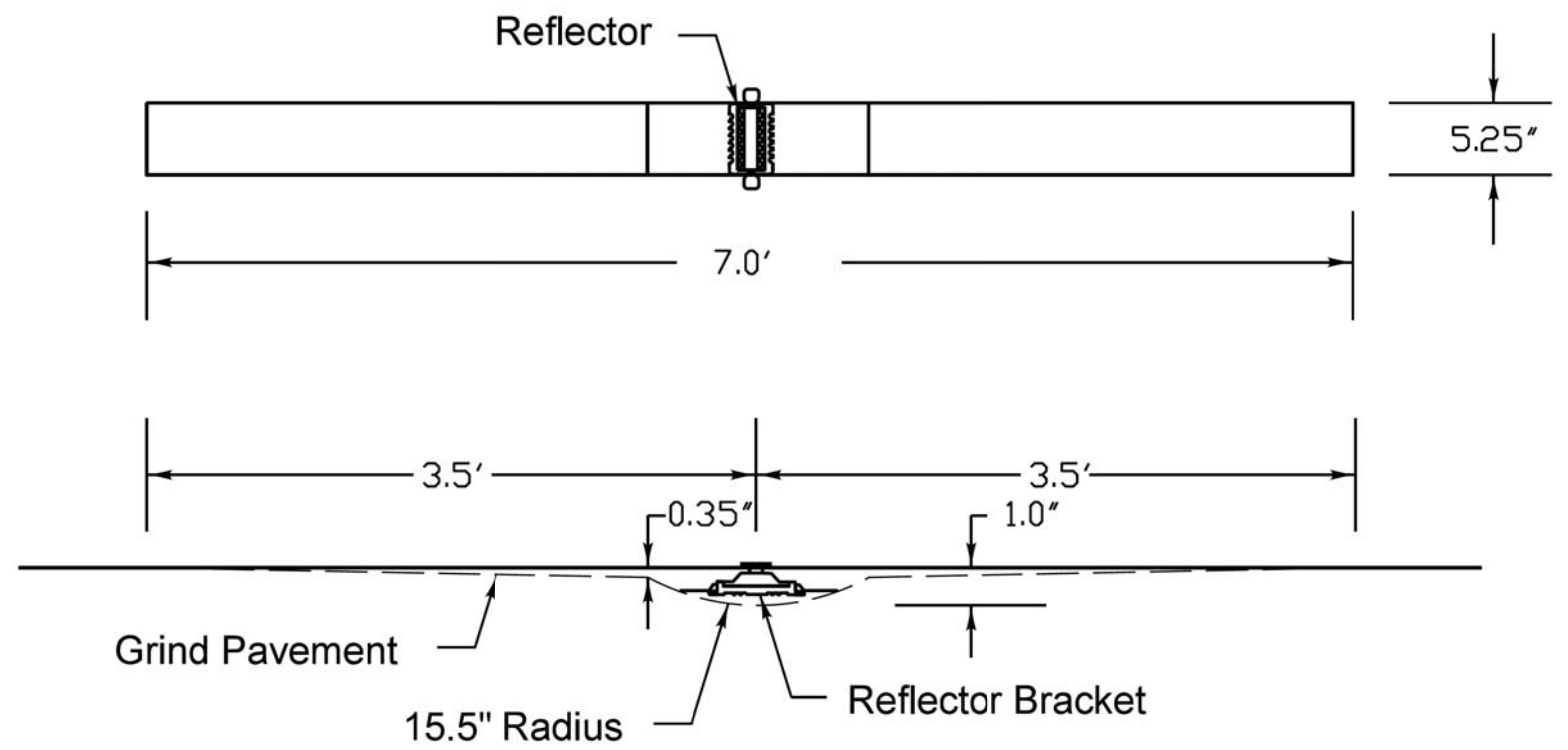
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TEMPLATE	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	


DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



**Notes**

1. The reflective pavement marker lens shall be a 3M 190 series pavement marker or an approved equal.
  2. The reflector bracket shall be made of a polycarbonate and shall be a MarkerOne Series R100 or an approved equal.
  3. The adhesive used shall meet the requirements of AASHTO M237 specification for adhesives to be used in cementing asphalt surfaces.
- Markers shall be placed at 40' intervals on lane lines and painted medians and 40' intervals on curves and approaching intersections as shown on LCDOT standard LC7800.

REVISIONS	DATE


**APPROVED BY: JN**  
**DATE: 12/02/13**

**RECESSED REFLECTIVE PAVEMENT MARKER**

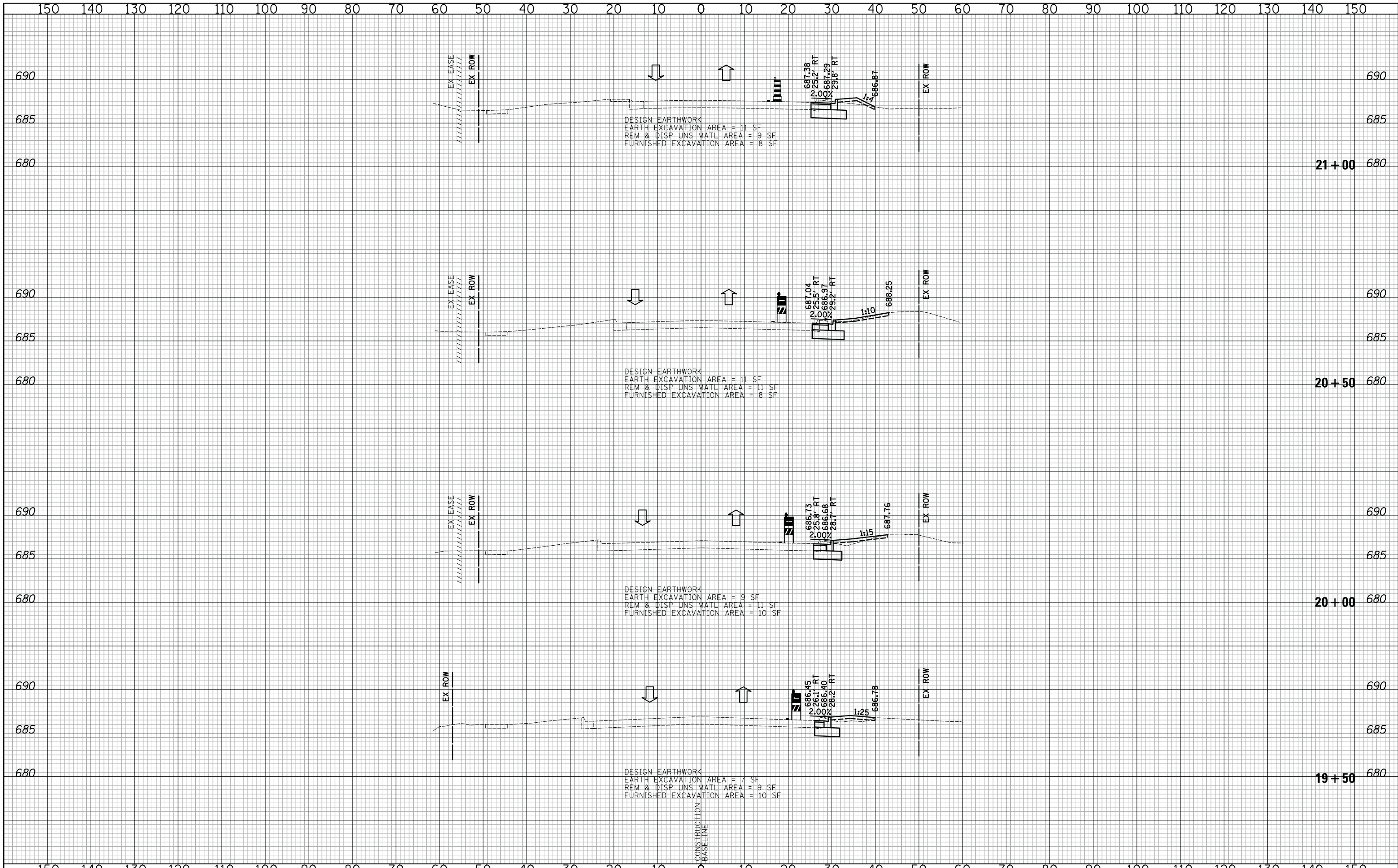
**LC7805**





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SURVEYED	
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TEMPLATE	
AREAS	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
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 www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 10/8/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



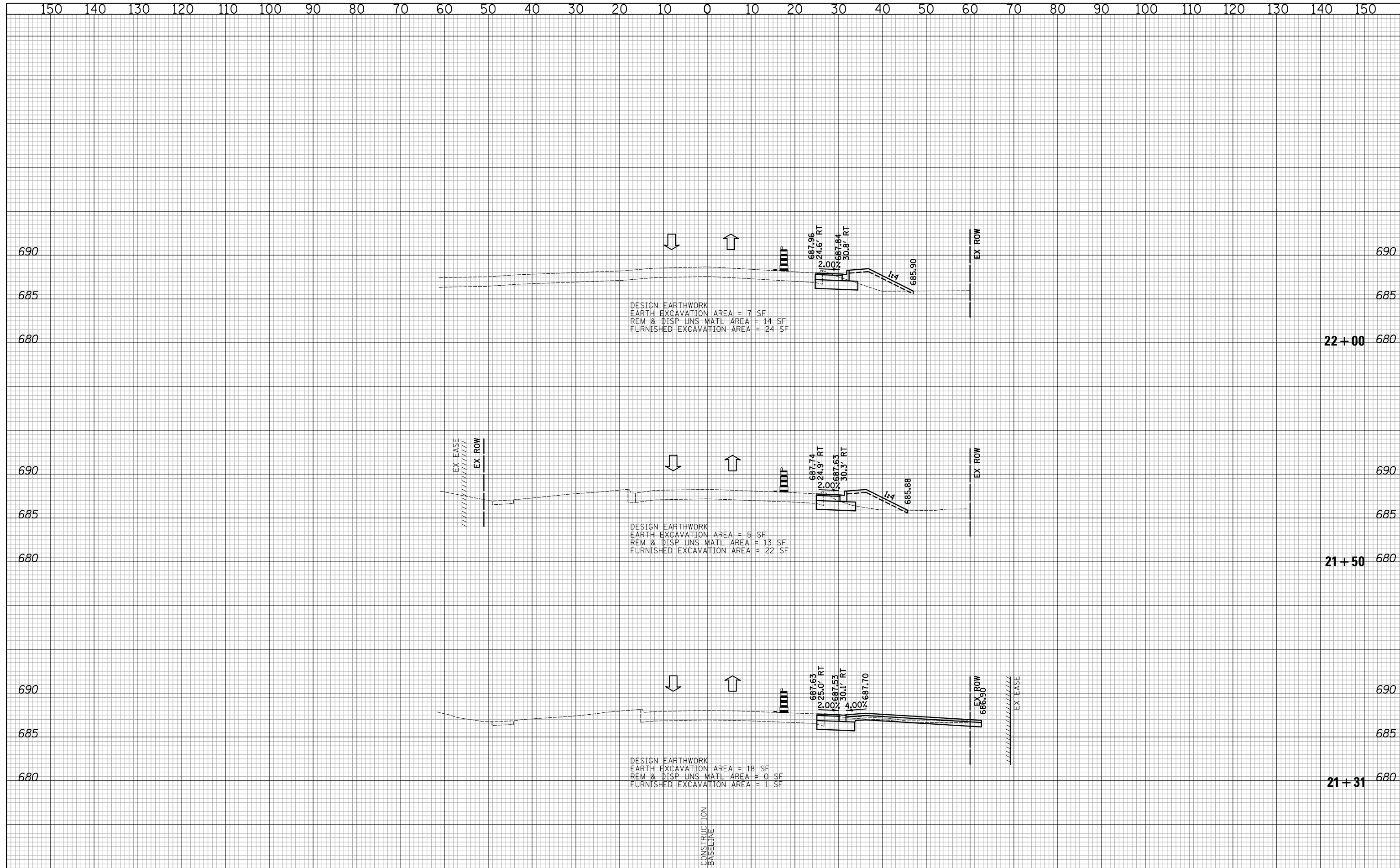
**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 2 OF 54 SHEETS STA. 19+50 TO STA. 21+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	317
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

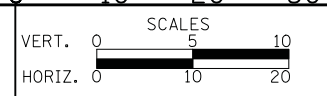
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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NO.	



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CHECKED - JRV	REVISED -
DATE - 10/8/2018	REVISED -

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



**CROSS SECTIONS STAGE I - WEILAND ROAD**

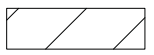
SHEET NO. 3 OF 54 SHEETS STA. 21+31 TO STA. 22+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	318
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24



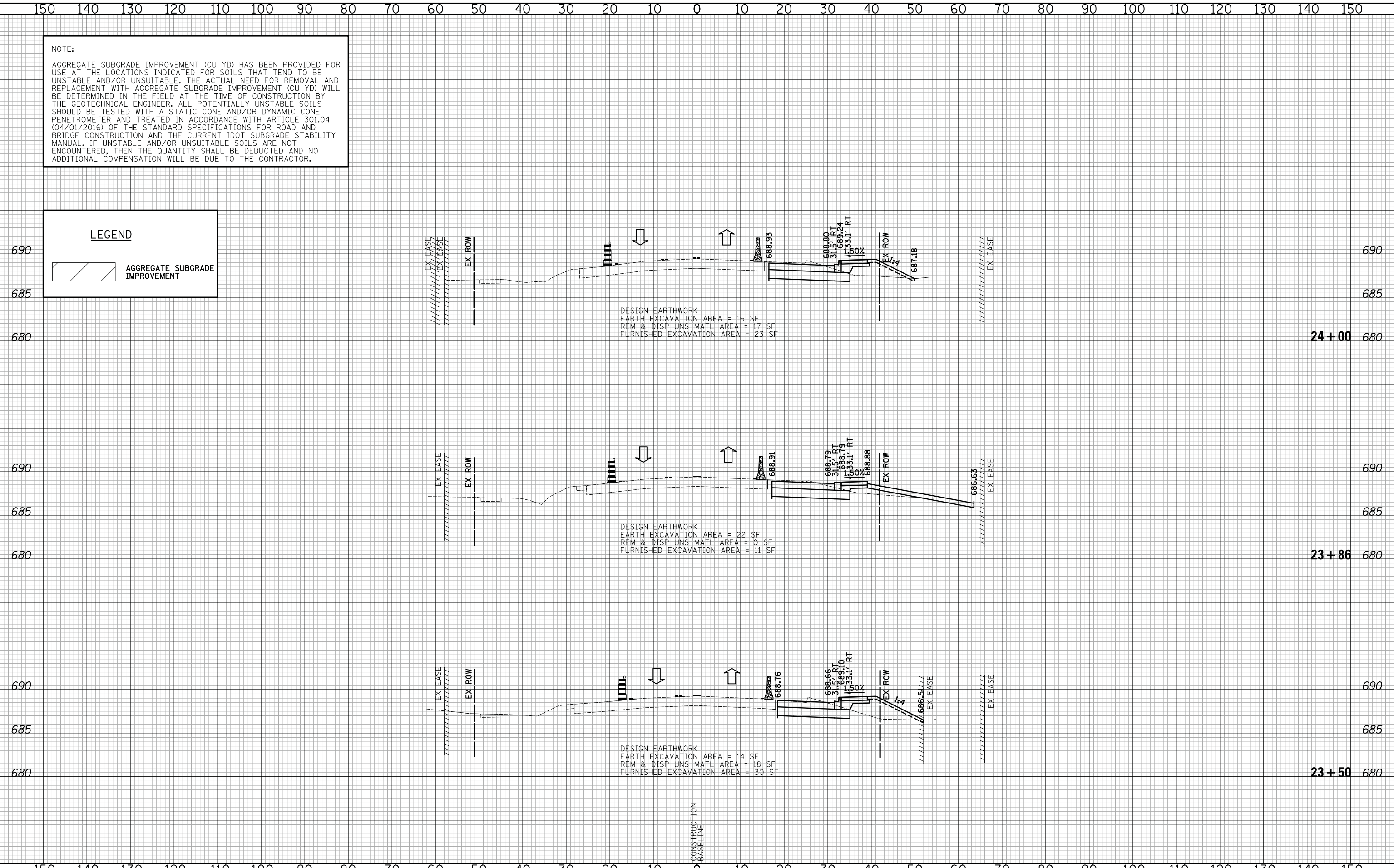


NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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DATE - 10/8/2018	REVISED -

**STATE OF ILLINOIS  
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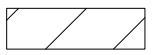
**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 5 OF 54 SHEETS | STA. 23+50 TO STA. 24+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	320
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24

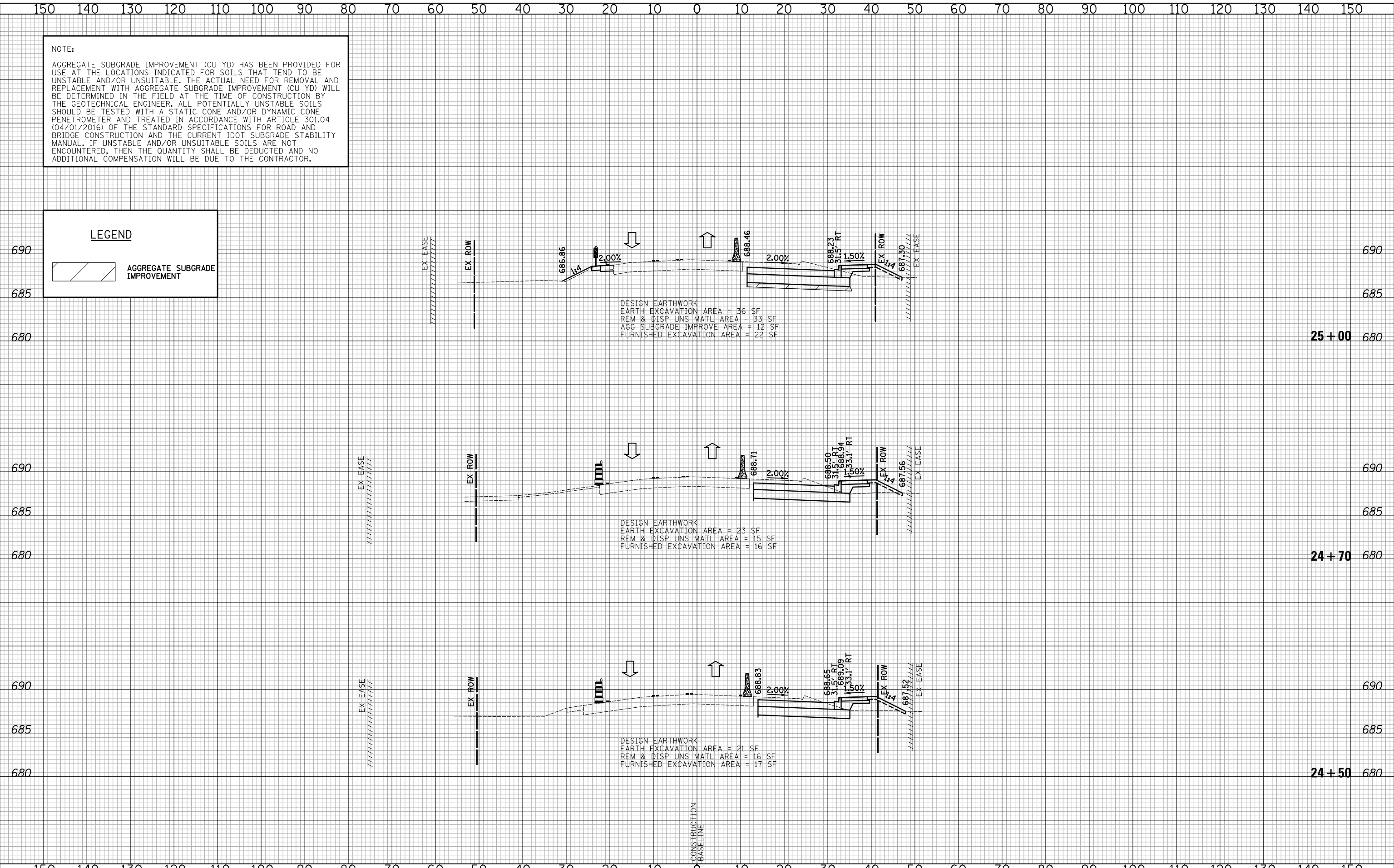


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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT

DATE	
BY	
FINISHED SURVEY	
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AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
PLOTTED	
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AREAS CHECKED	
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DATE - 10/8/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 6 OF 54 SHEETS STA. 24+50 TO STA. 25+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	321
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



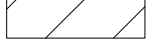


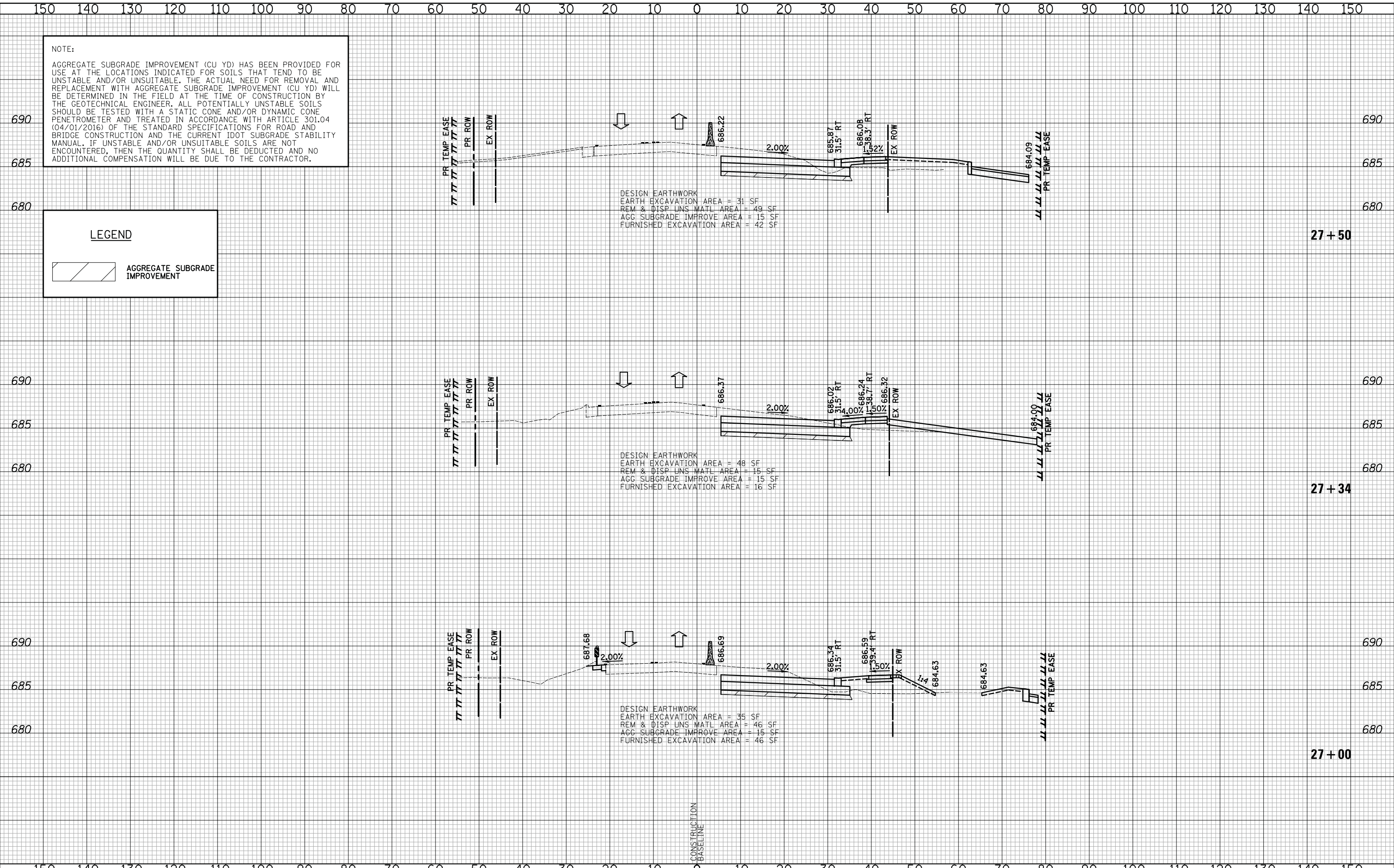
DATE	
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SURVEYED	
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TEMPLATE	
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FINAL	
SURVEY	
NOTE BOOK	
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DATE	
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PLOTTED	
TEMPLATE	
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CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	

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**LEGEND**

 AGGREGATE SUBGRADE IMPROVEMENT



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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 8 OF 54 SHEETS STA. 27+00 TO STA. 27+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	323
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24















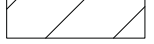


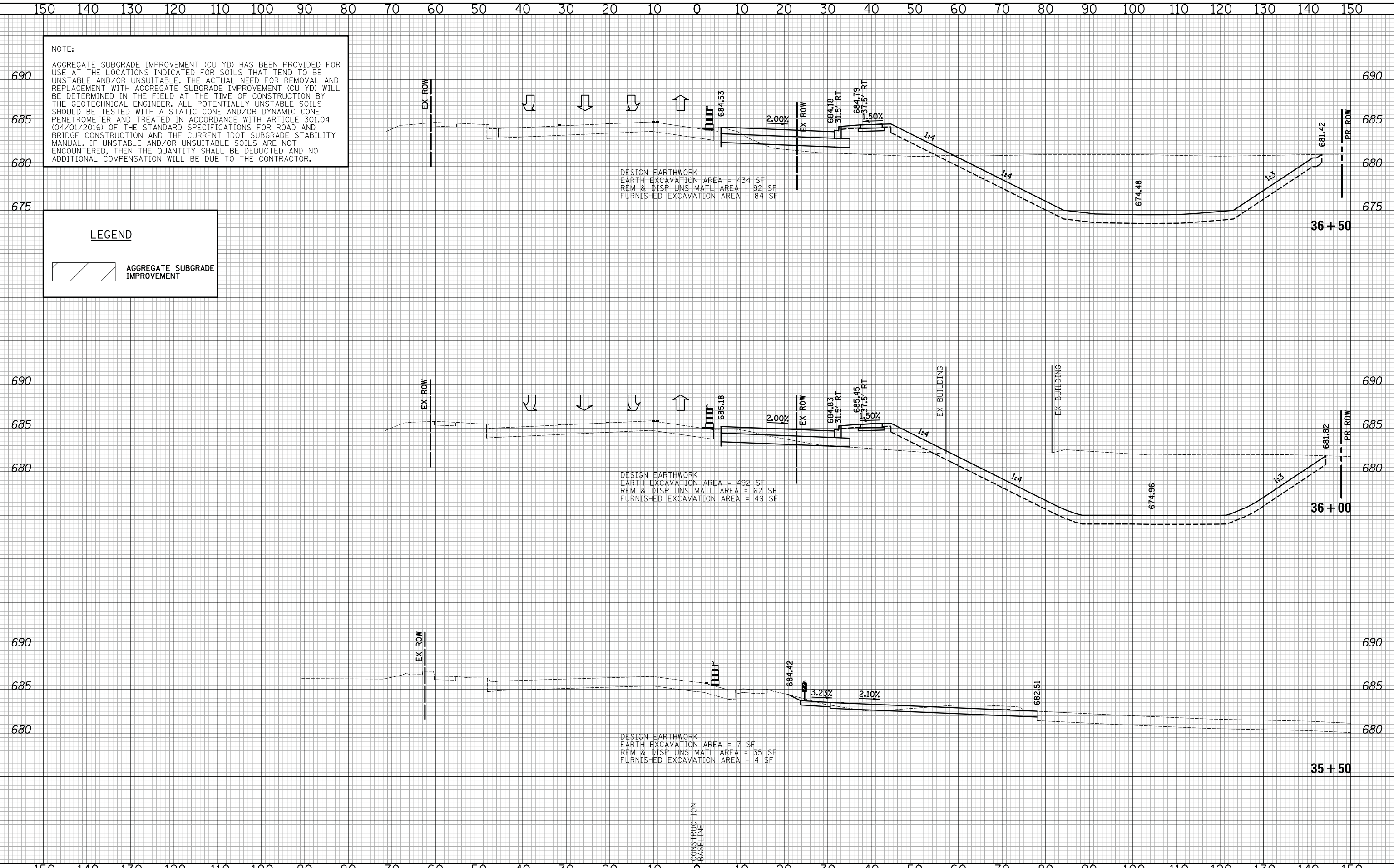


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DATE	
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LEGEND  
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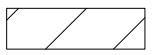


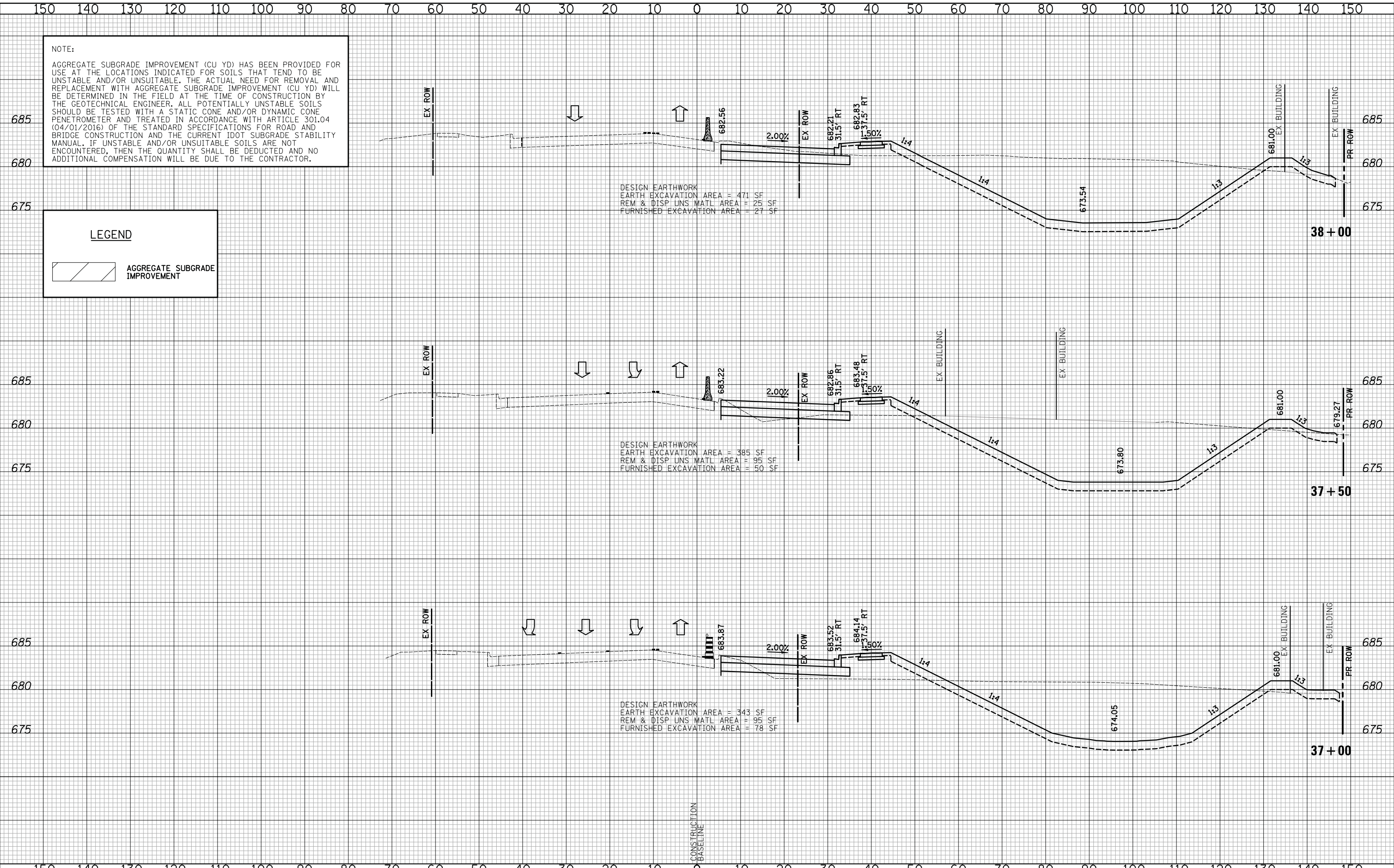


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ORIGINAL SURVEY	
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 471 SF  
 REM & DISP UNS MATL AREA = 25 SF  
 FURNISHED EXCAVATION AREA = 27 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 385 SF  
 REM & DISP UNS MATL AREA = 95 SF  
 FURNISHED EXCAVATION AREA = 50 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 343 SF  
 REM & DISP UNS MATL AREA = 95 SF  
 FURNISHED EXCAVATION AREA = 78 SF

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS STAGE I - WEILAND ROAD**

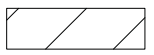
SHEET NO. 16 OF 54 SHEETS STA. 37+00 TO STA. 38+00

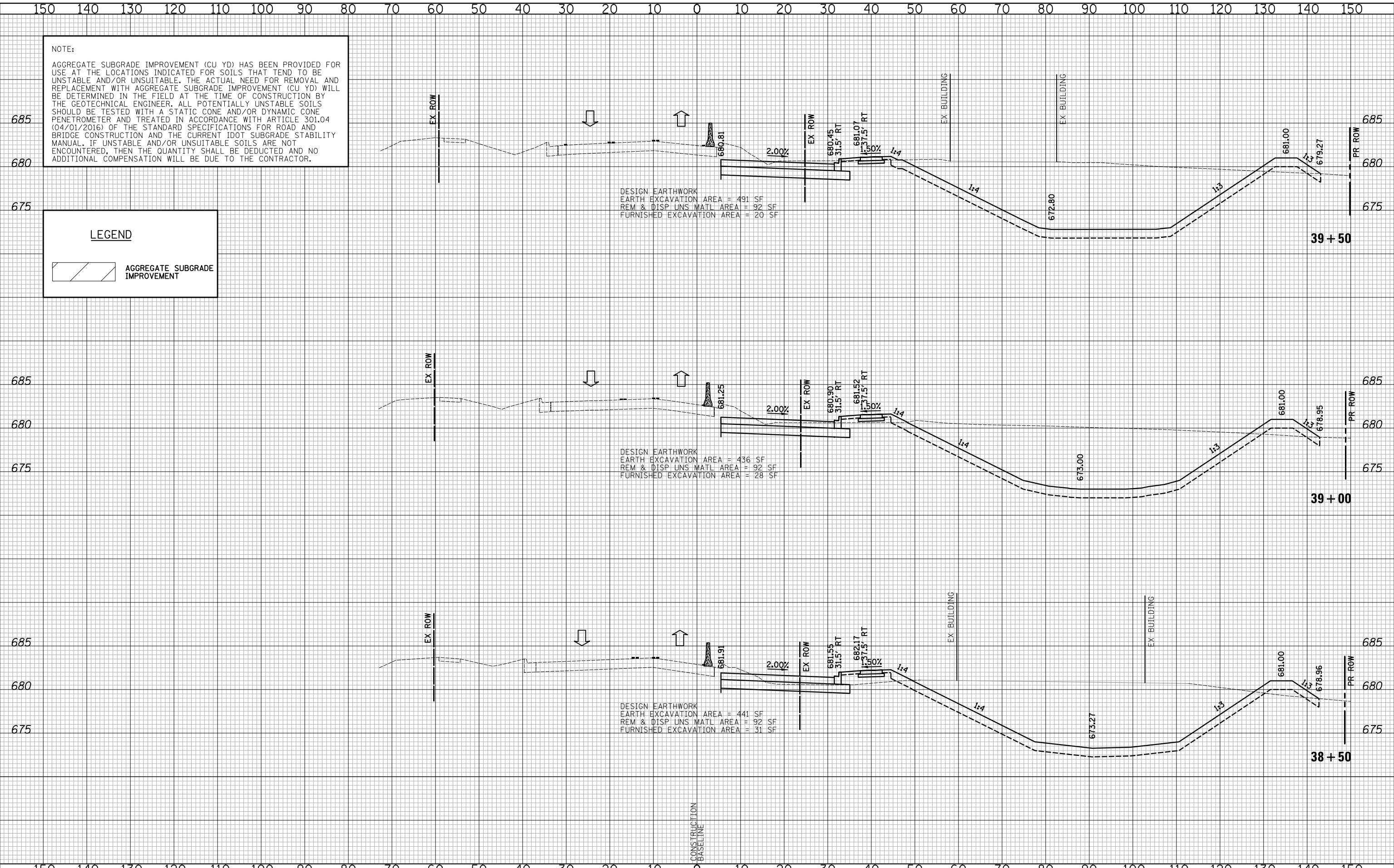
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	331
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
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DATE	
BY	
SURVEYED	
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NO.	

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LEGEND  
 AGGREGATE SUBGRADE IMPROVEMENT



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 491 SF  
 REM & DISP UNS MATL AREA = 92 SF  
 FURNISHED EXCAVATION AREA = 20 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 436 SF  
 REM & DISP UNS MATL AREA = 92 SF  
 FURNISHED EXCAVATION AREA = 28 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 441 SF  
 REM & DISP UNS MATL AREA = 92 SF  
 FURNISHED EXCAVATION AREA = 31 SF

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CROSS SECTIONS STAGE I - WEILAND ROAD

SHEET NO. 17 OF 54 SHEETS STA. 38+50 TO STA. 39+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	332
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

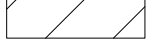


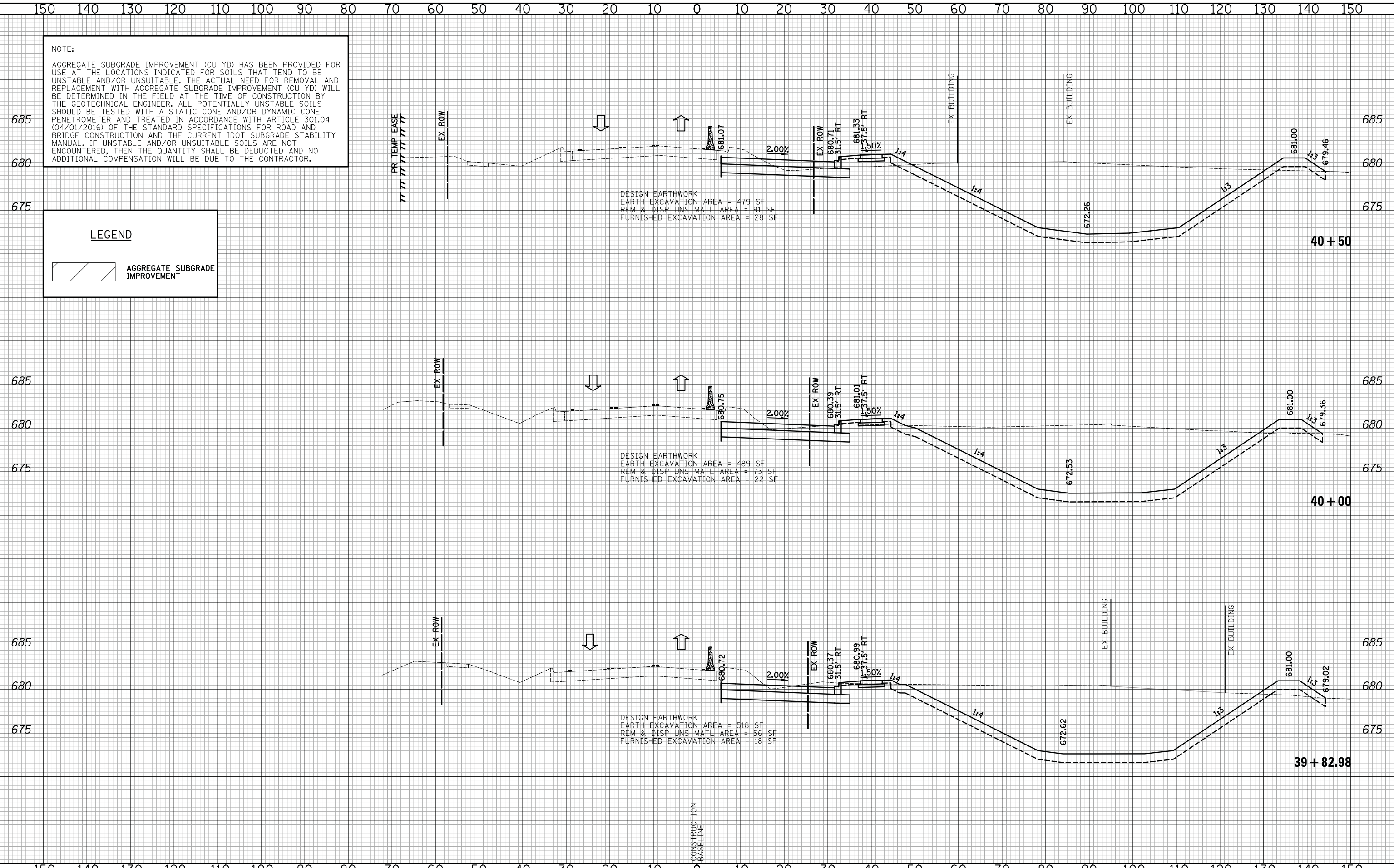
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SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
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DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NO.	

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**LEGEND**

 AGGREGATE SUBGRADE IMPROVEMENT



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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 18 OF 54 SHEETS | STA. 39+82.98 TO STA. 40+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	333
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





















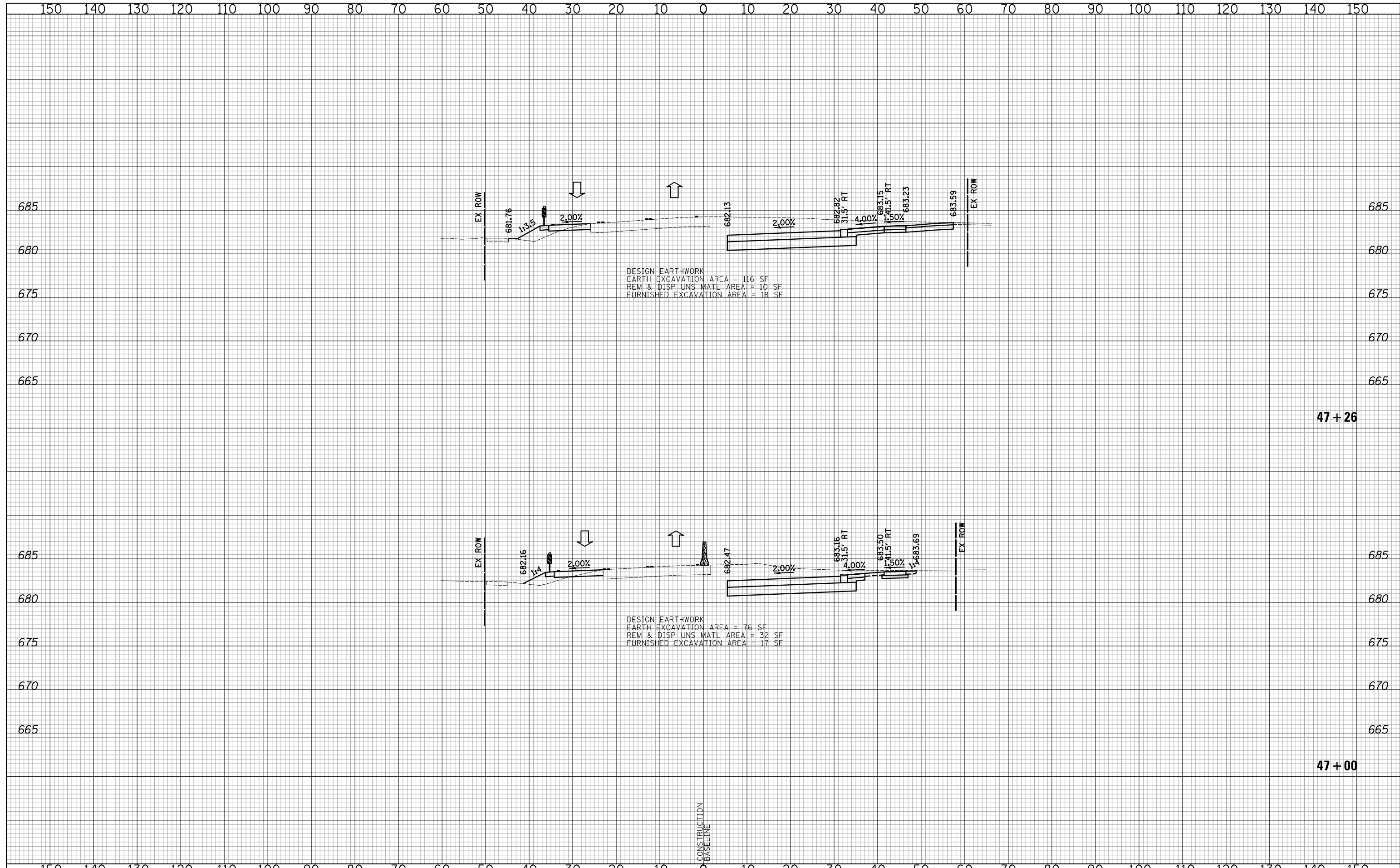






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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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DATE - 10/8/2018	REVISED -

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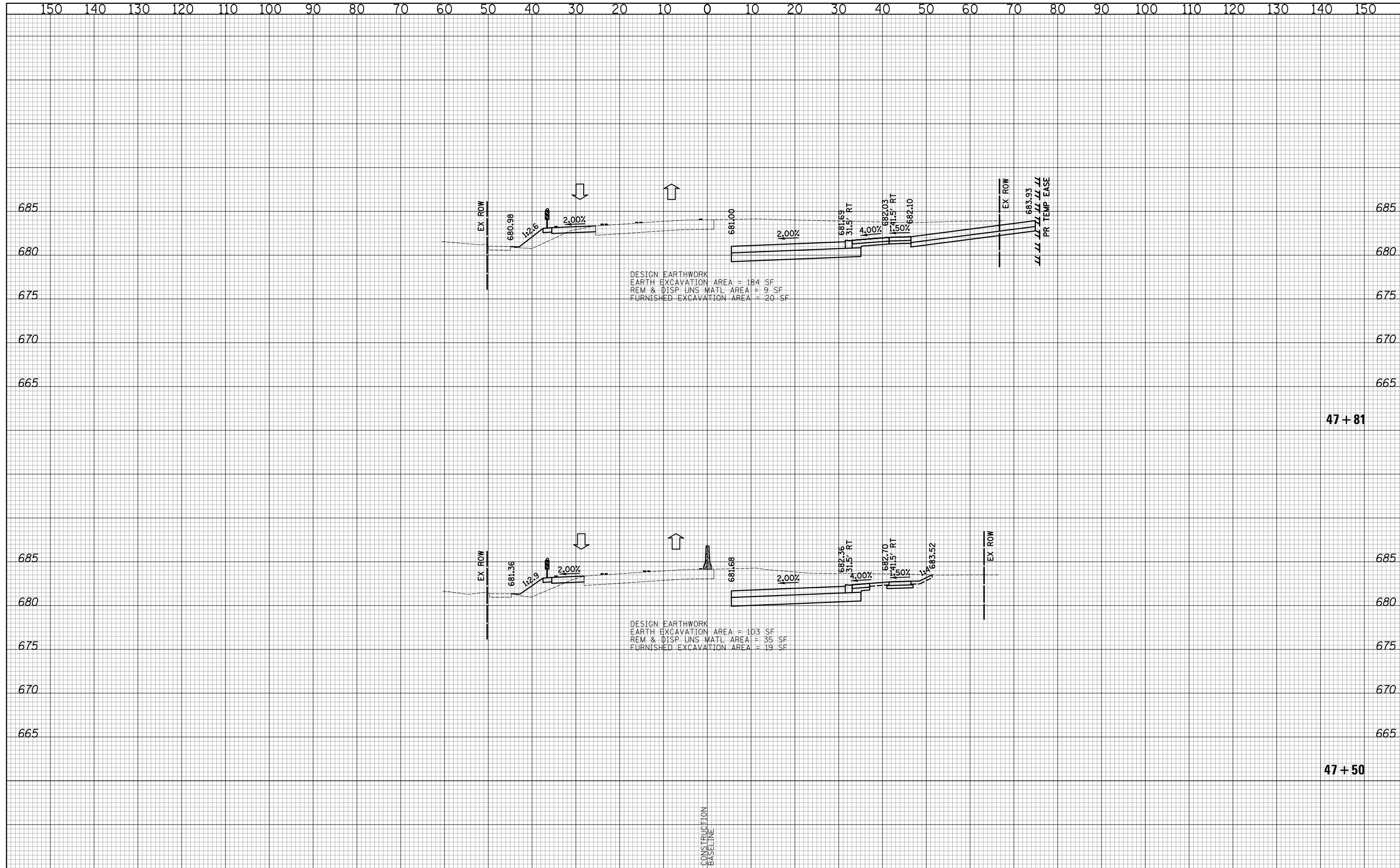
CROSS SECTIONS STAGE I - WEILAND ROAD

SHEET NO. 28 OF 54 SHEETS STA. 47+00 TO STA. 47+26

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	343
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 184 SF  
 REM & DISP UNS MATL AREA = 9 SF  
 FURNISHED EXCAVATION AREA = 20 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 103 SF  
 REM & DISP UNS MATL AREA = 35 SF  
 FURNISHED EXCAVATION AREA = 19 SF

47 + 81

47 + 50

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DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
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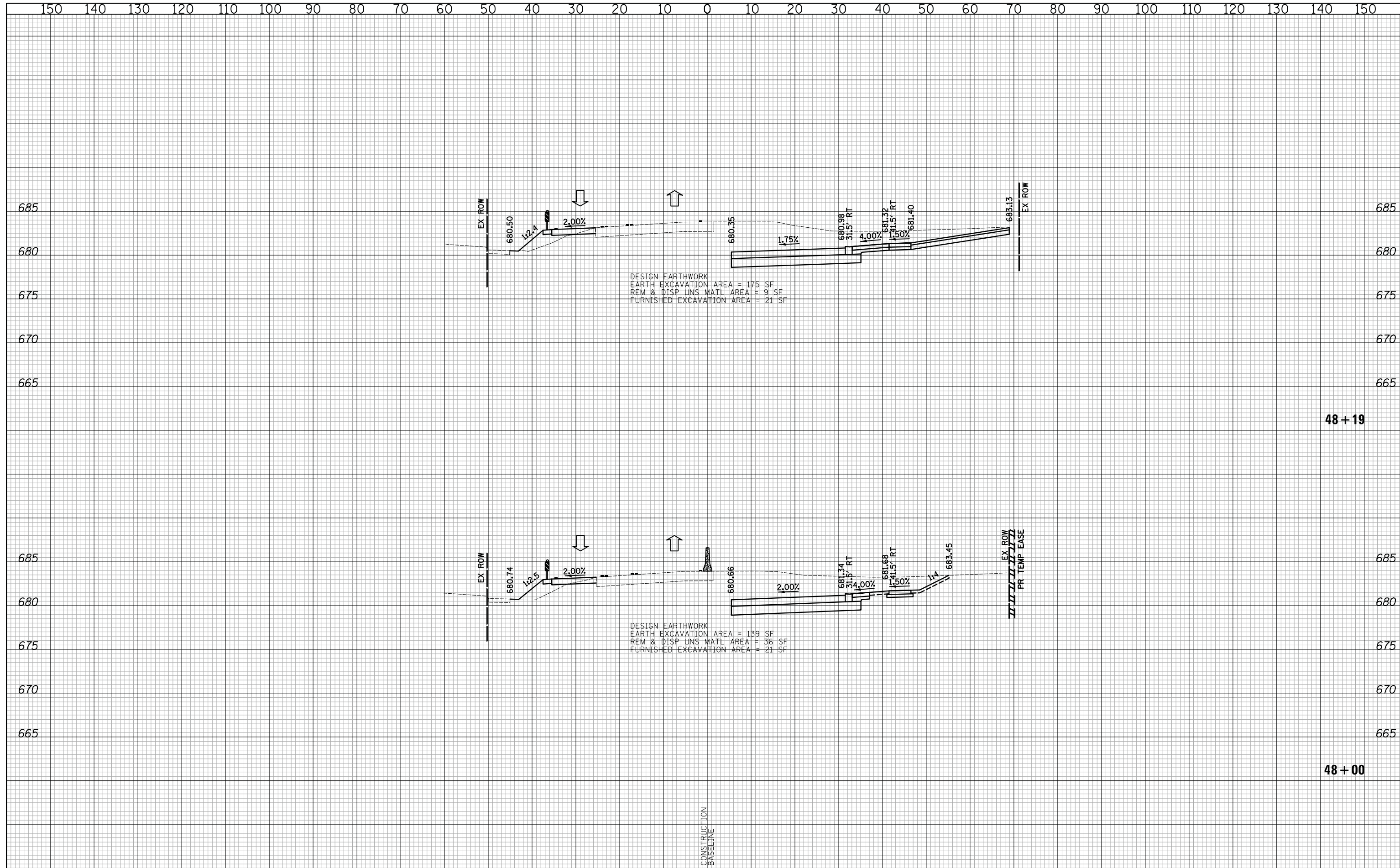
**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 29 OF 54 SHEETS STA. 47+50 TO STA. 47+81

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	344
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

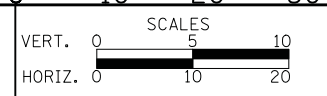
DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

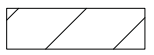
SHEET NO. 30 OF 54 SHEETS STA. 48+00 TO STA. 48+19

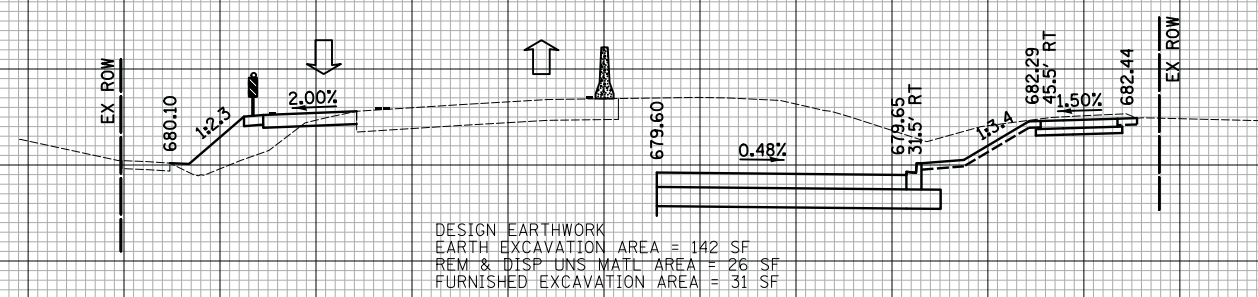
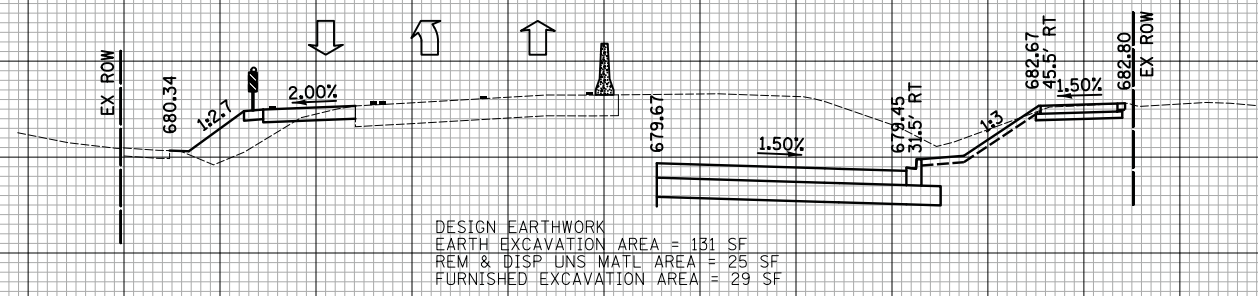
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	345
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



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

DATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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**STATE OF ILLINOIS**  
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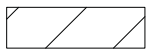


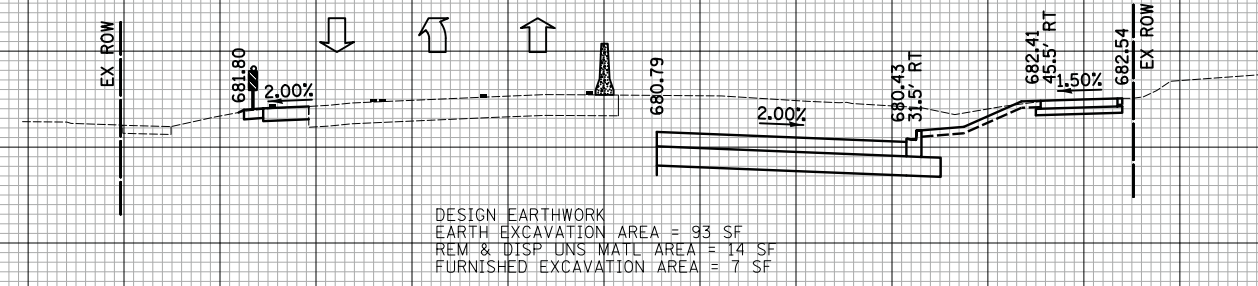
**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 32 OF 54 SHEETS STA. 49+09.31 TO STA. 49+50

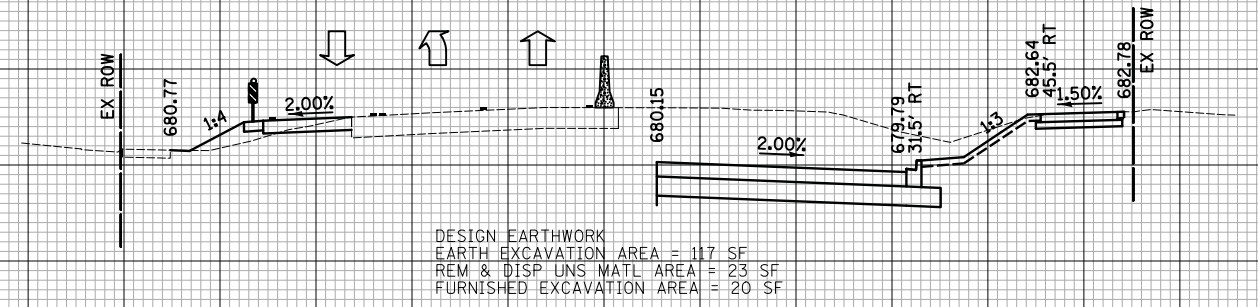
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	347
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTE:  
 AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

LEGEND  
 AGGREGATE SUBGRADE IMPROVEMENT



50 + 50



50 + 00

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	NO.

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	NO.

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DATE - 10/8/2018	REVISED -

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CROSS SECTIONS STAGE I - WEILAND ROAD

SHEET NO. 33 OF 54 SHEETS STA. 50+00 TO STA. 50+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	348
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



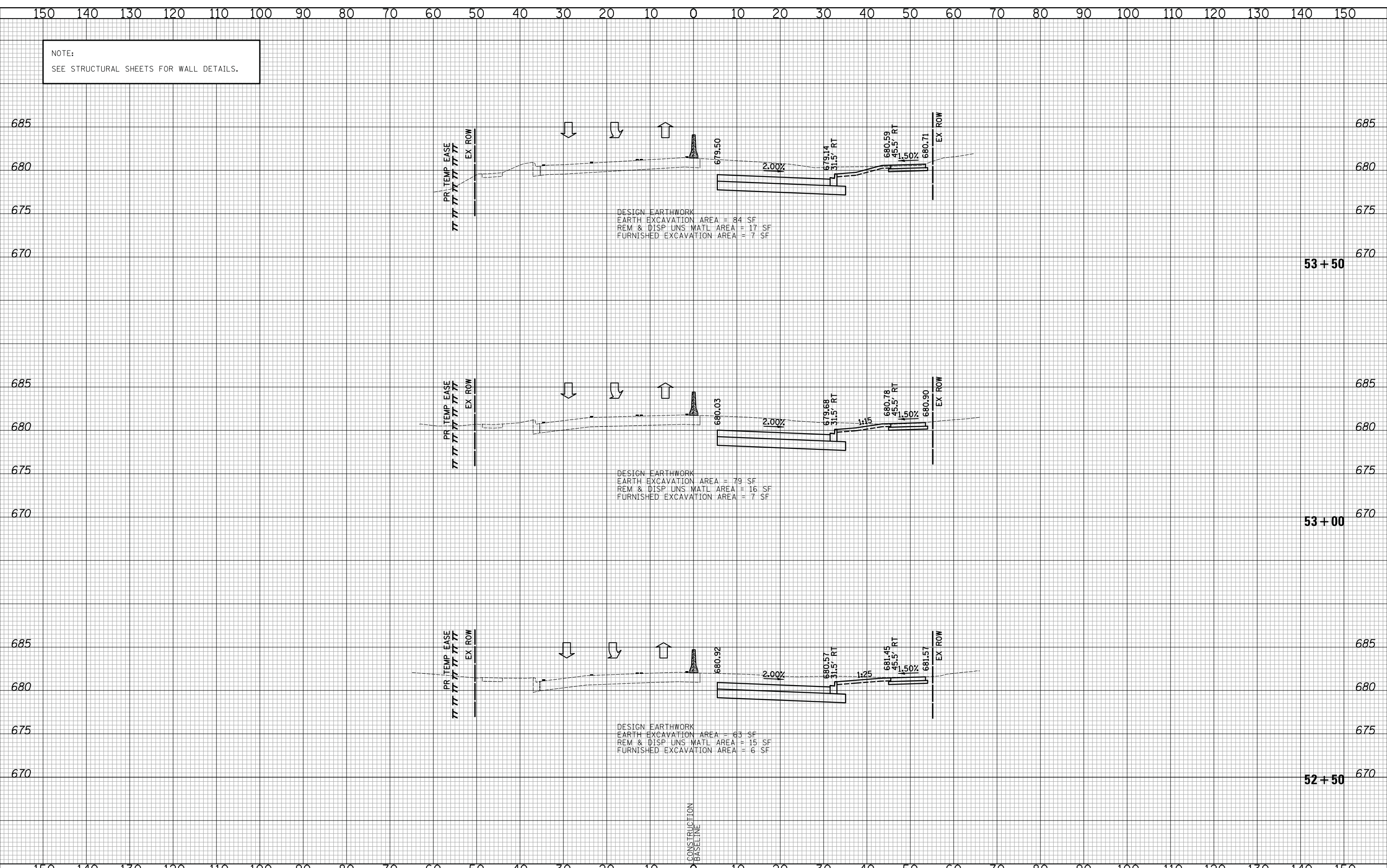




NOTE:  
SEE STRUCTURAL SHEETS FOR WALL DETAILS.

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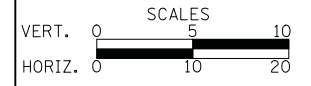
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 36 OF 54 SHEETS STA. 52+50 TO STA. 53+50

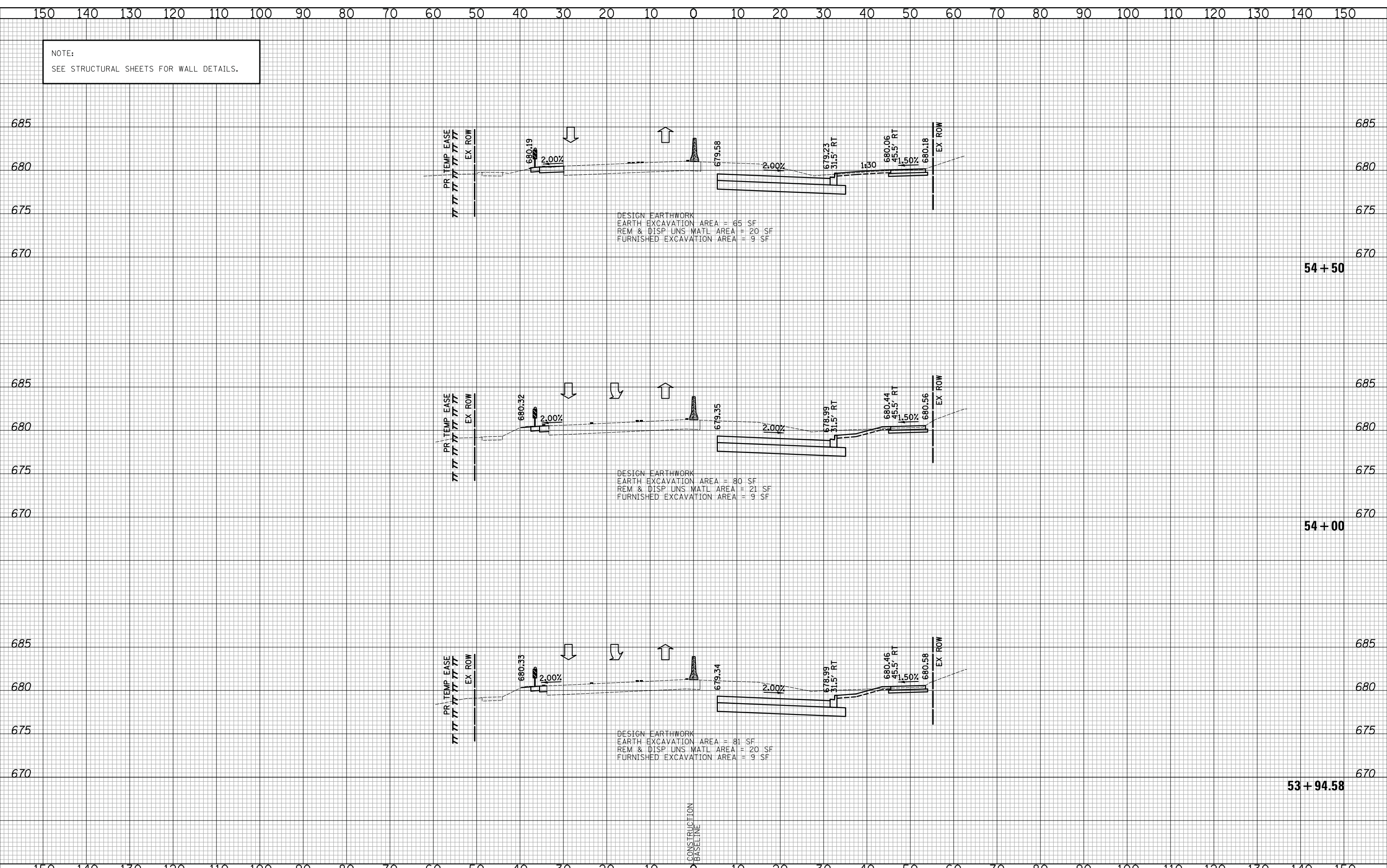
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	351
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24



NOTE:  
SEE STRUCTURAL SHEETS FOR WALL DETAILS.

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TEMPLATE	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 37 OF 54 SHEETS STA. 53+94.58 TO STA. 54+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	352
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



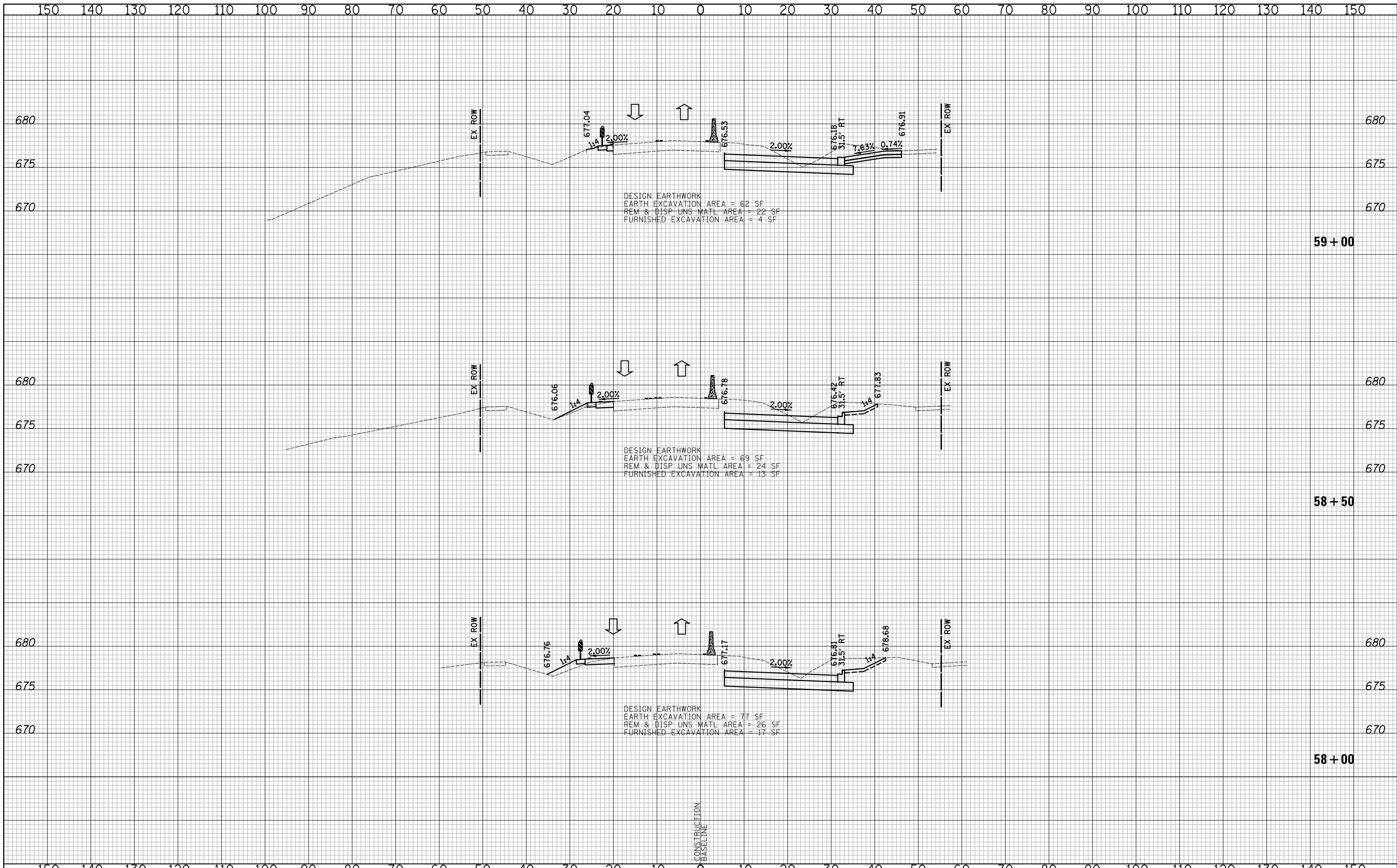






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PLOTTED	
TEMPLATE	
AREAS	
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FINAL	
SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 62 SF  
 REM & DISP UNS MATL AREA = 22 SF  
 FURNISHED EXCAVATION AREA = 4 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 69 SF  
 REM & DISP UNS MATL AREA = 24 SF  
 FURNISHED EXCAVATION AREA = 13 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 77 SF  
 REM & DISP UNS MATL AREA = 26 SF  
 FURNISHED EXCAVATION AREA = 17 SF



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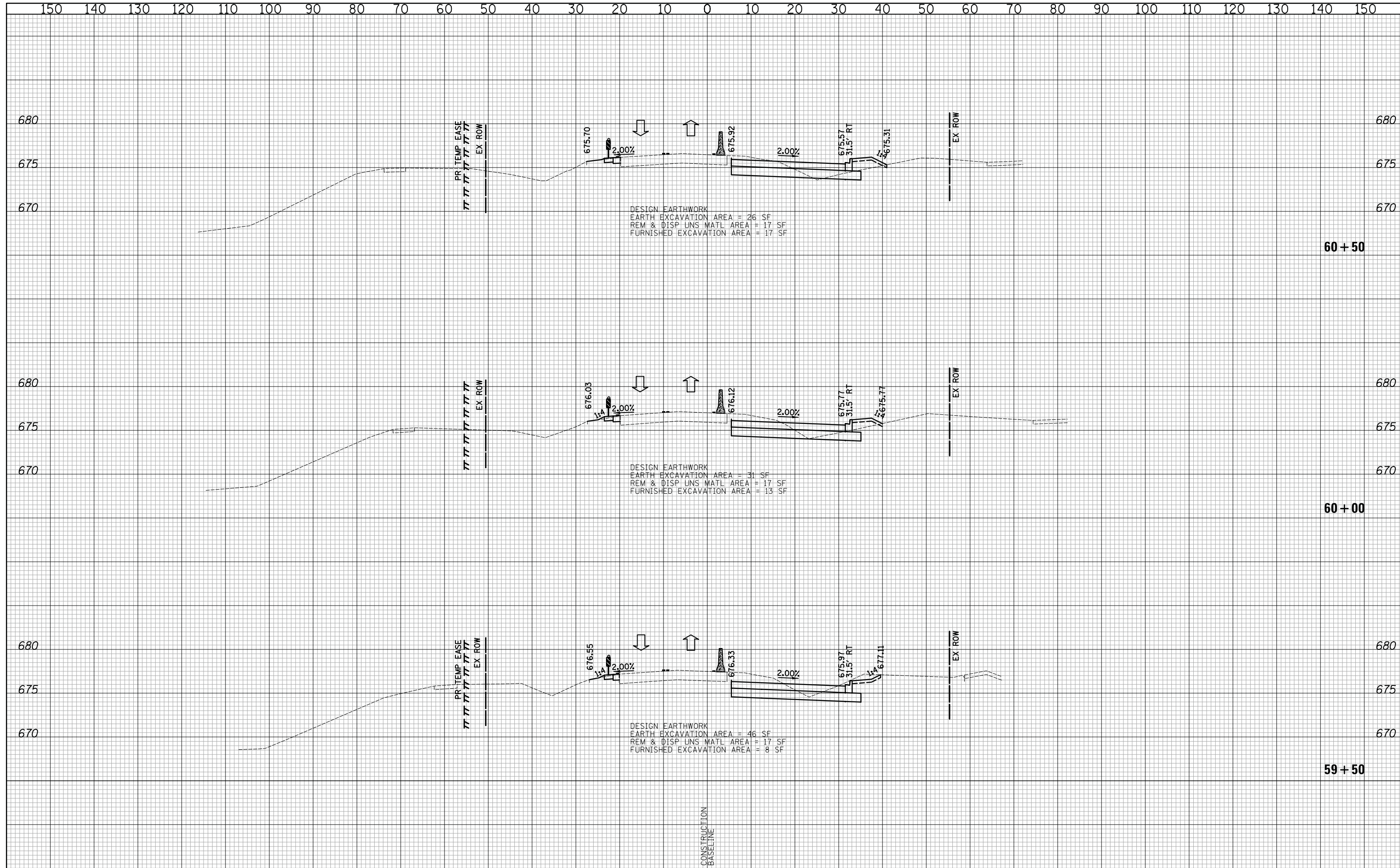
CROSS SECTIONS STAGE I - WEILAND ROAD

SHEET NO. 41 OF 54 SHEETS STA. 58+00 TO STA. 59+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	356
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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PLOTTED	
TEMPLATE	
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SURVEY	
NOTE BOOK	
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ORIGINAL	
SURVEY	
NOTE BOOK	
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DATE - 10/8/2018	REVISED -

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**DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS STAGE I - WEILAND ROAD**

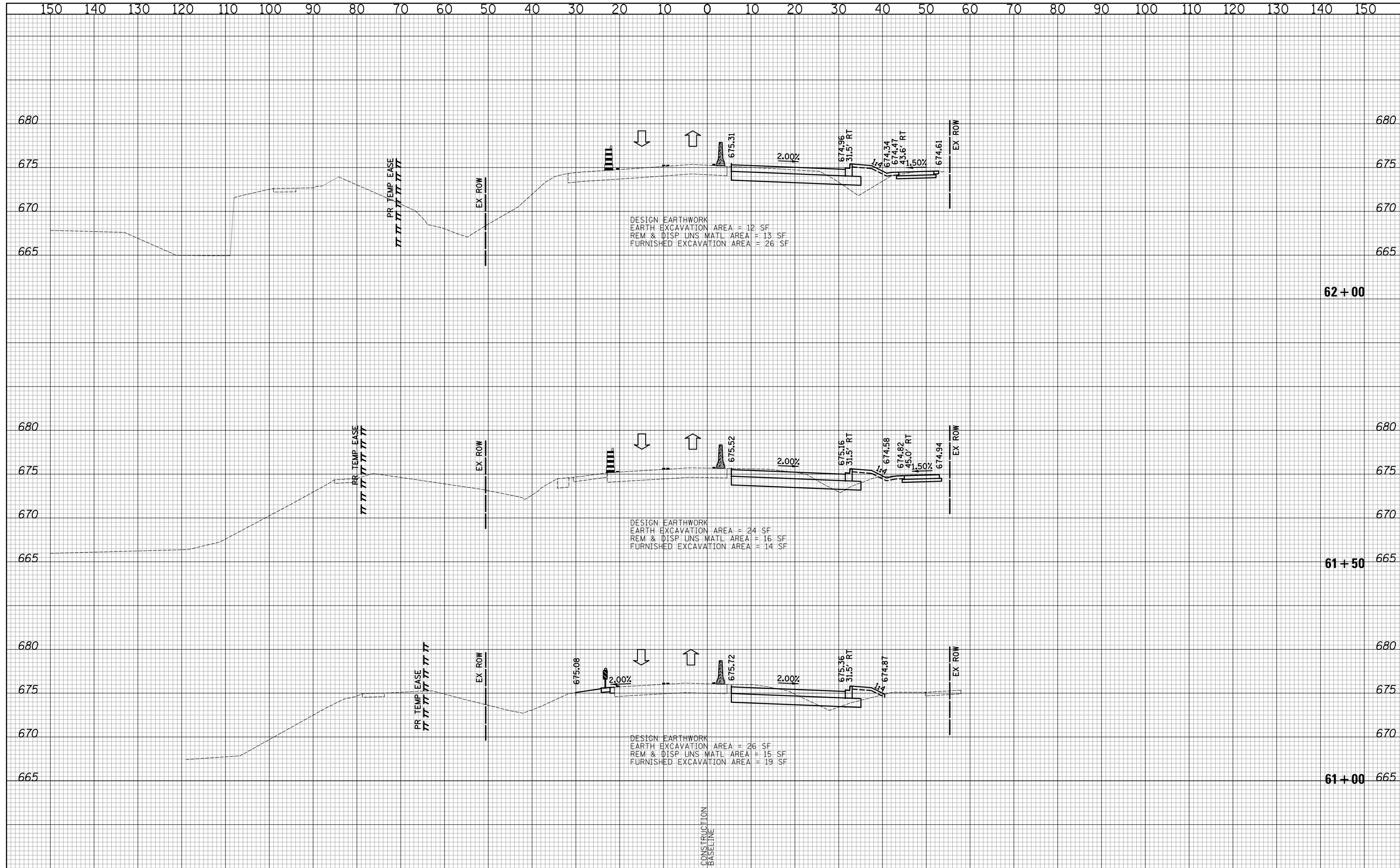
SHEET NO. 42 OF 54 SHEETS STA. 59+50 TO STA. 60+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	357
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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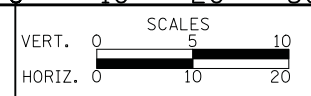
DATE	
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PLOTTED	
TEMPLATE	
AREAS	
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 43 OF 54 SHEETS STA. 61+00 TO STA. 62+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	358
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 36 SF  
 REM & DISP UNS MATL AREA = 14 SF  
 FURNISHED EXCAVATION AREA = 20 SF

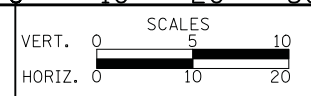
DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 14 SF  
 REM & DISP UNS MATL AREA = 8 SF  
 FURNISHED EXCAVATION AREA = 96 SF

**62 + 39.06**  
**SKEW = 19° 25'**

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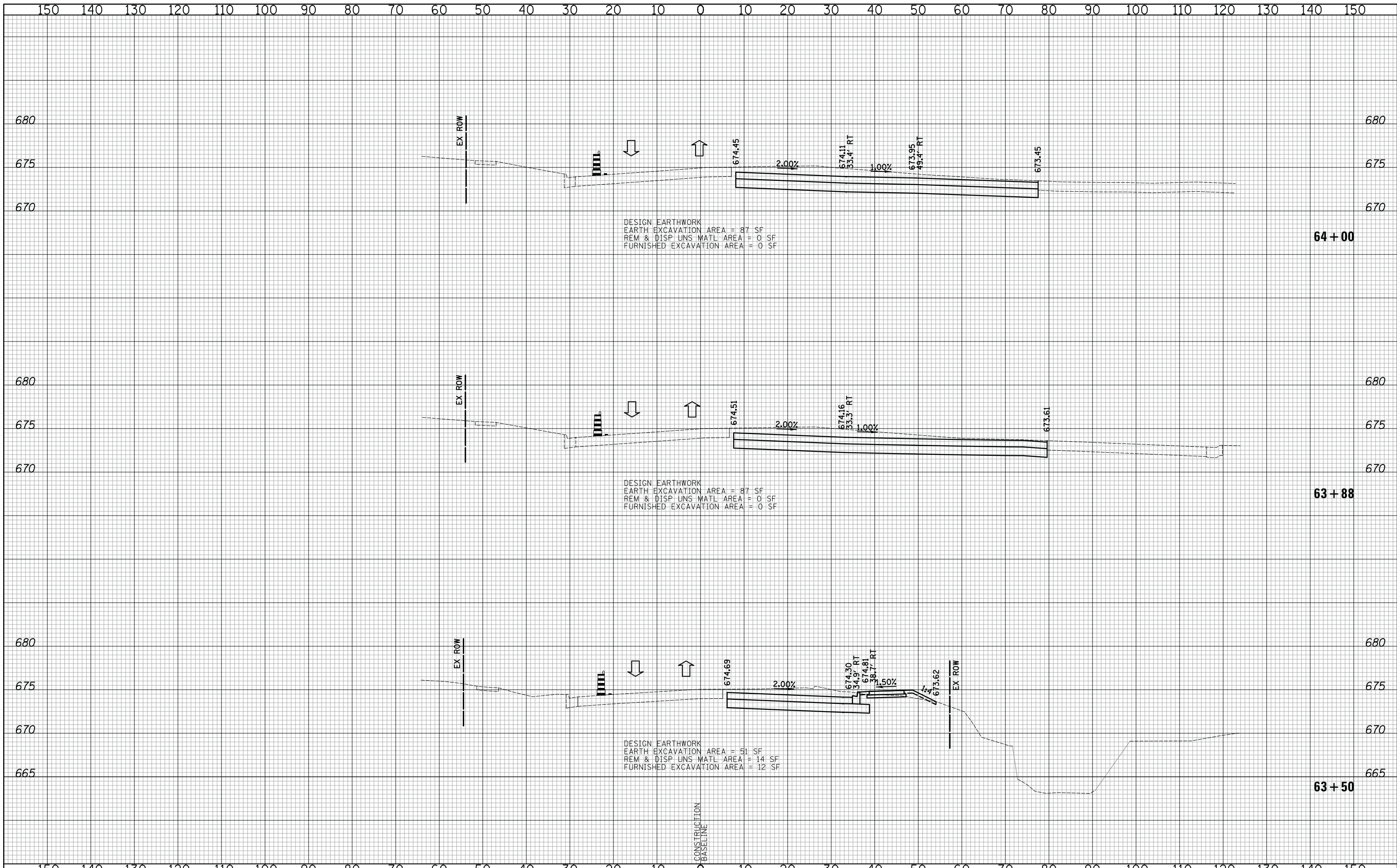
**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 44 OF 54 SHEETS STA. 62+39.06 TO STA. 63+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	359
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
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DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 87 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 0 SF

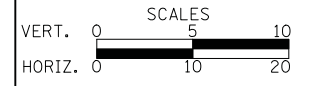
DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 87 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 0 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 51 SF  
 REM & DISP UNS MATL AREA = 14 SF  
 FURNISHED EXCAVATION AREA = 12 SF

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DATE - 10/8/2018	REVISED -

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**CROSS SECTIONS STAGE I - WEILAND ROAD**

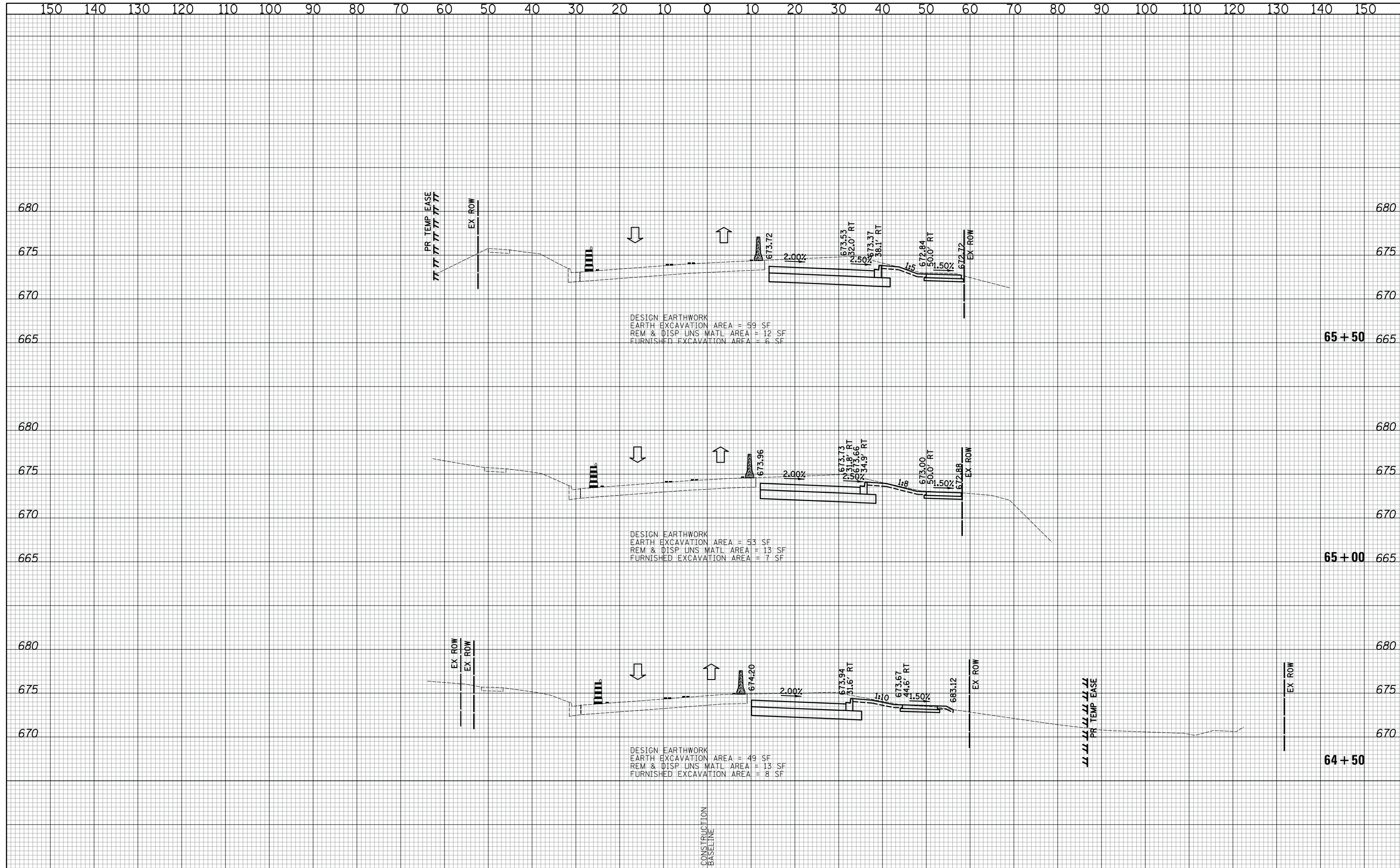
SHEET NO. 45 OF 54 SHEETS STA. 63+50 TO STA. 64+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	360
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
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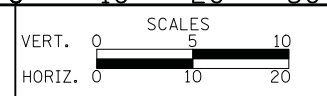
DATE	
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TEMPLATE	
AREAS	
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 46 OF 54 SHEETS STA. 64+50 TO STA. 65+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	361
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

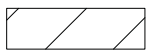






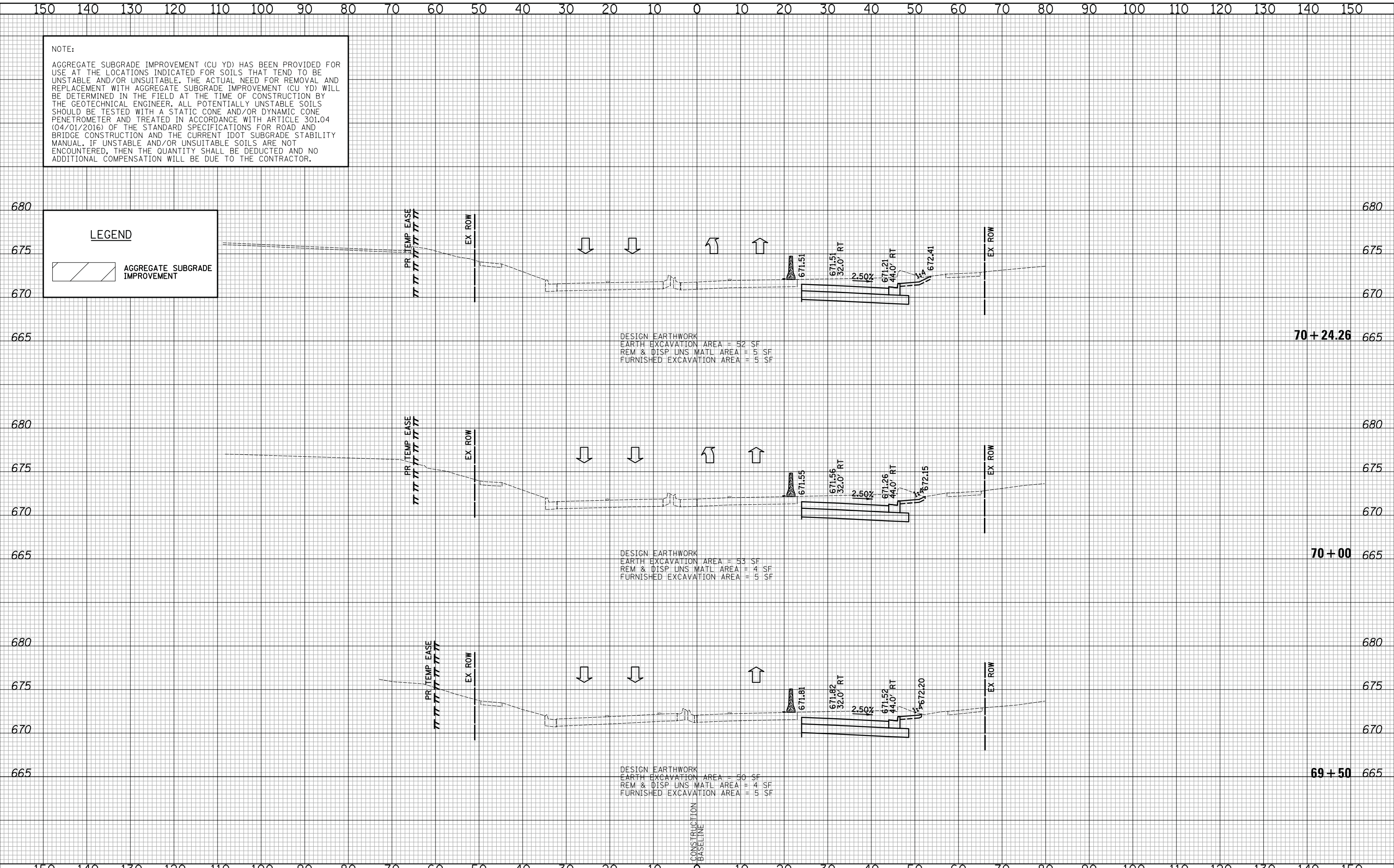


NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT

DATE	
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**CROSS SECTIONS STAGE I - WEILAND ROAD**

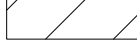
SHEET NO. 50 OF 54 SHEETS STA. 69+50 TO STA. 70+24.26

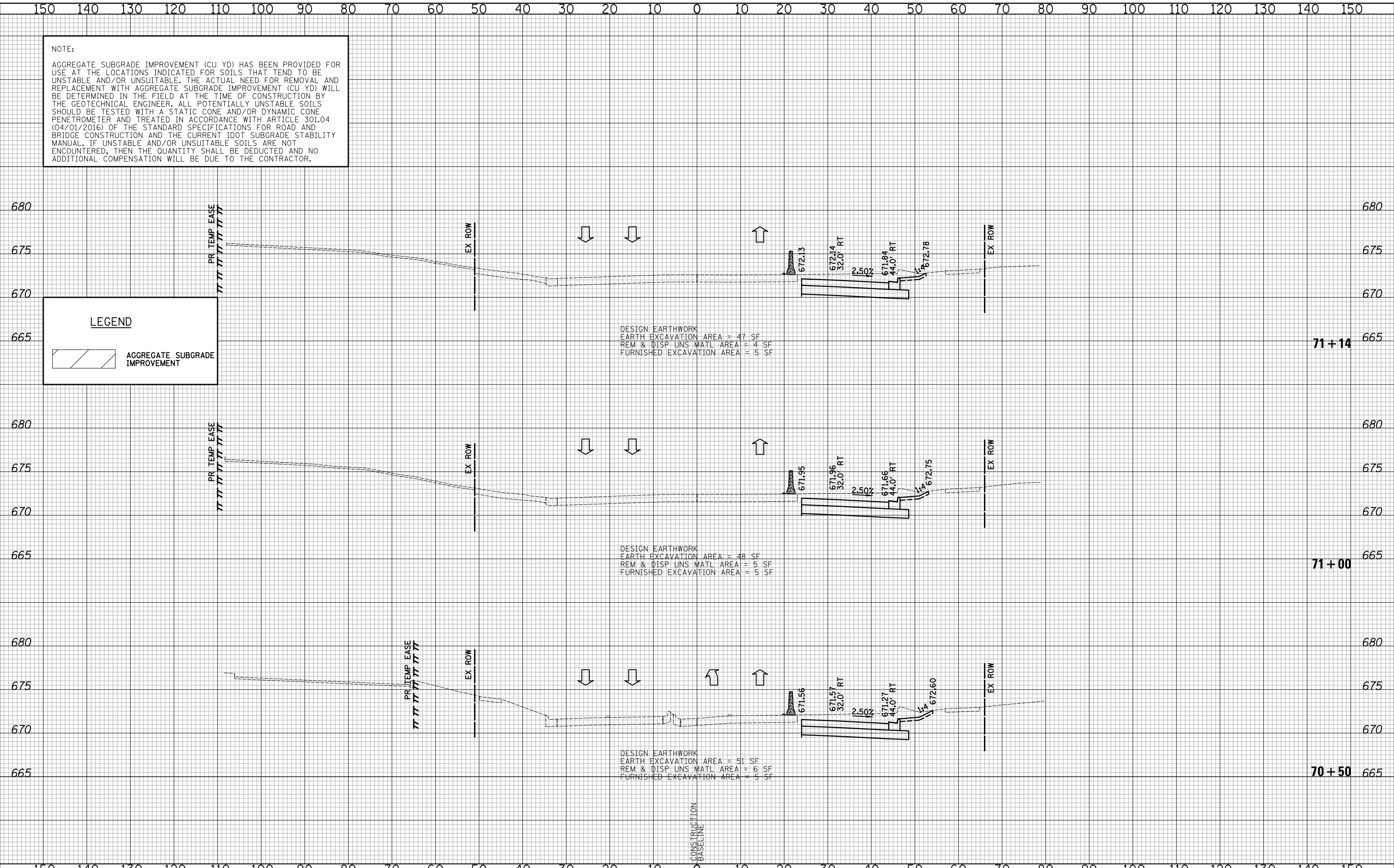
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	365
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24

NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 51 OF 54 SHEETS STA. 70+50 TO STA. 71+14

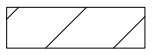
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	366
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61E24

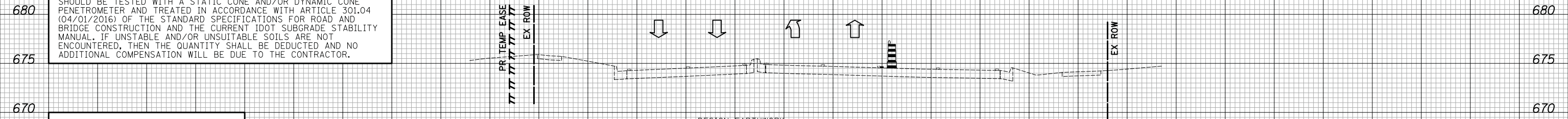


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NOTE BOOK	
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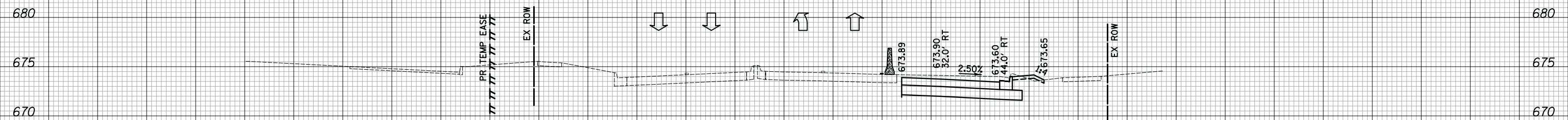
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



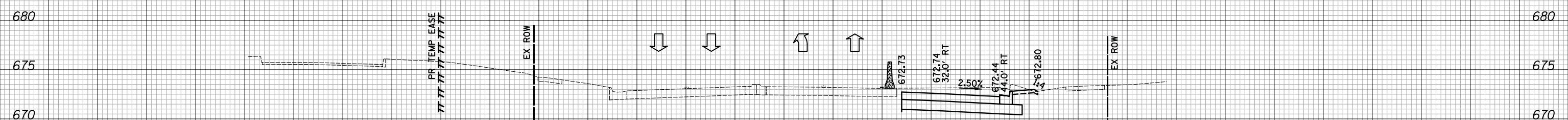
DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 0 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 0 SF

72+12



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 36 SF  
 REM & DISP UNS MATL AREA = 5 SF  
 FURNISHED EXCAVATION AREA = 7 SF

72+00



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 43 SF  
 REM & DISP UNS MATL AREA = 4 SF  
 FURNISHED EXCAVATION AREA = 6 SF

71+50

CONSTRUCTION  
 BASELINE

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DATE - 10/8/2018	REVISED -

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**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 52 OF 54 SHEETS STA. 71+50 TO STA. 72+12

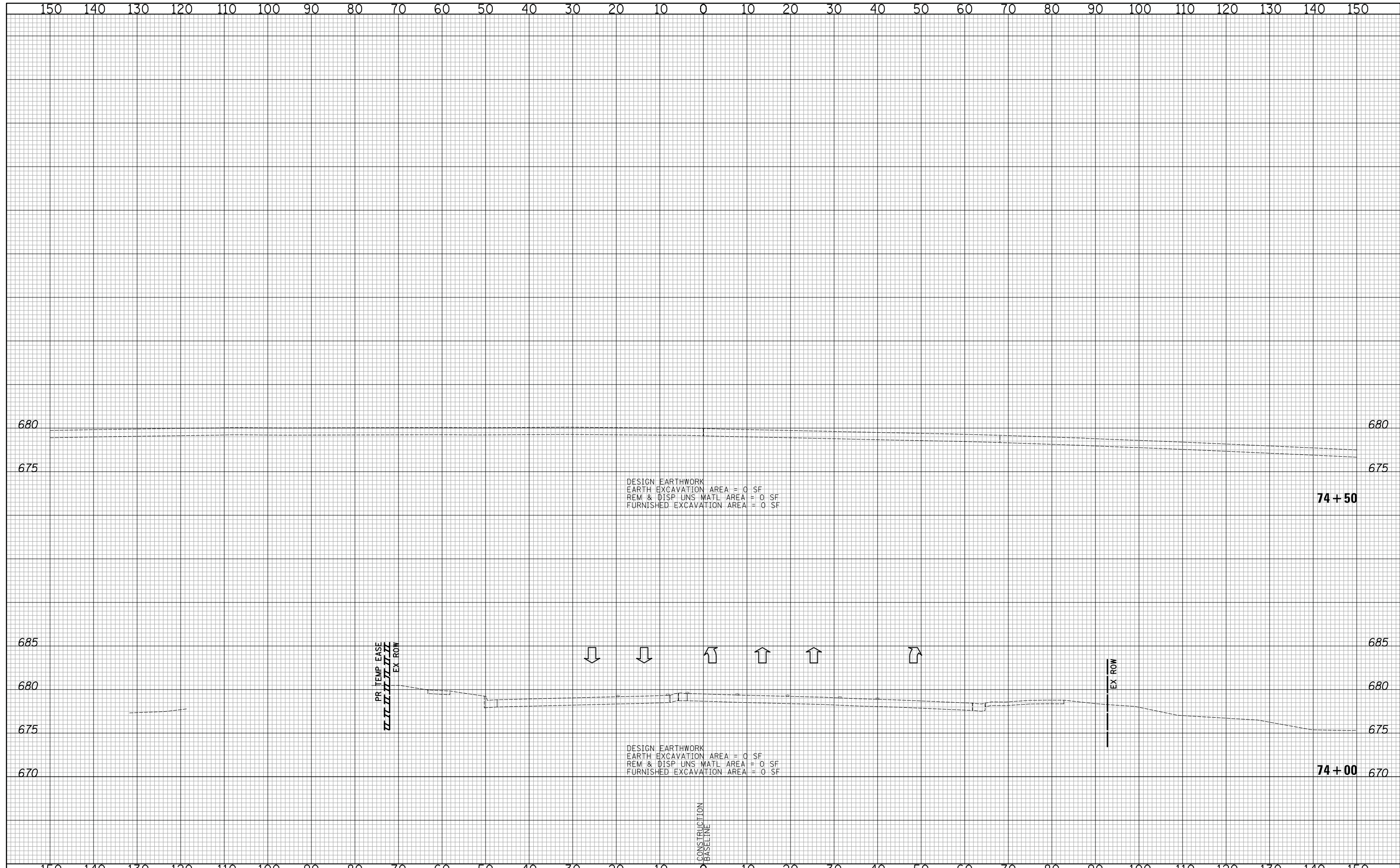
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	367
CONTRACT NO. 61E24				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



DATE	
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SURVEYED	
PLOTTED	
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DATE - 10/8/2018	REVISED -

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

VERT. 0 5 10  
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SCALES

**CROSS SECTIONS STAGE I - WEILAND ROAD**

SHEET NO. 54 OF 54 SHEETS STA. 74+00 TO STA. 74+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	369
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

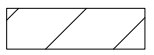


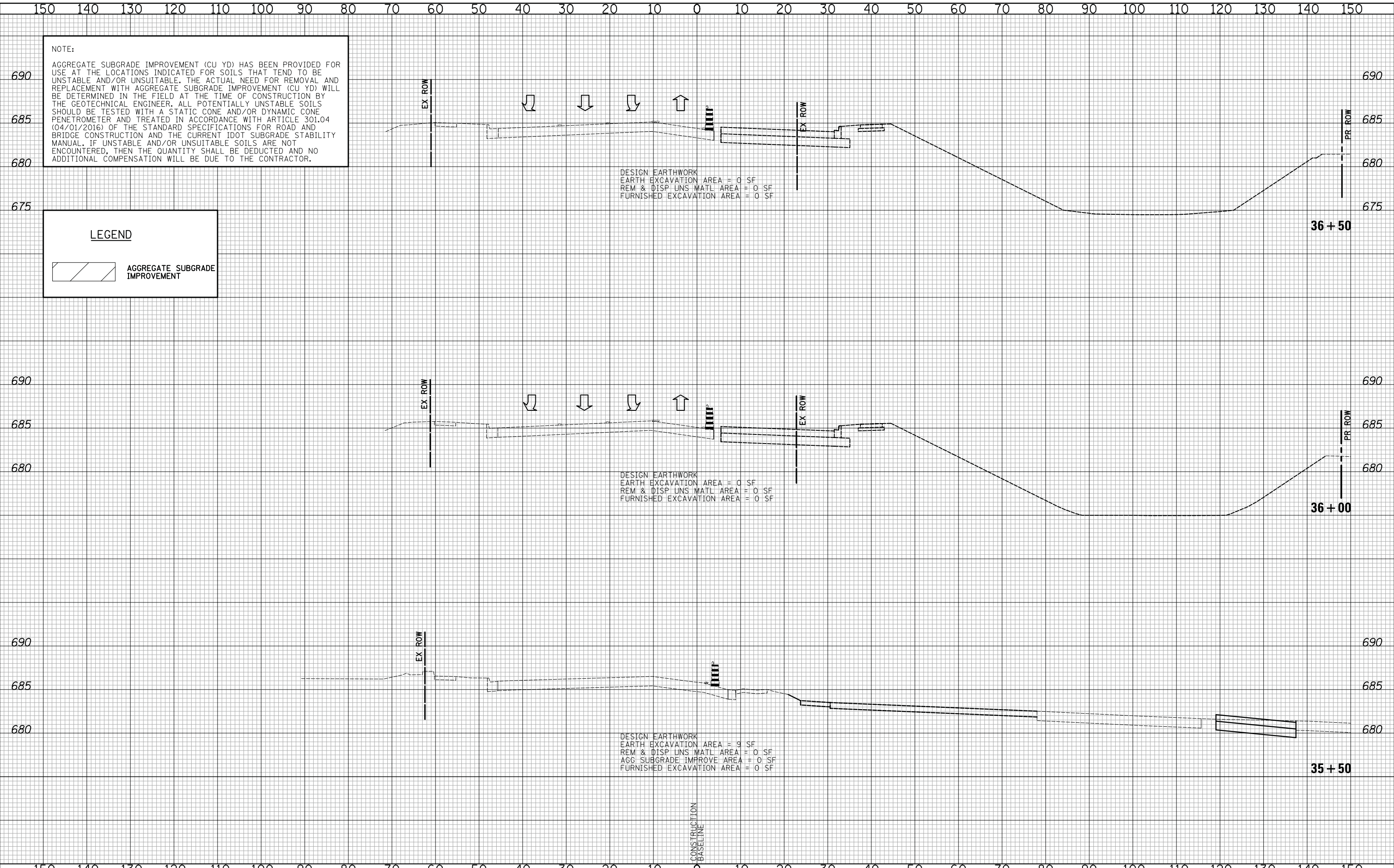


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FINAL	
SURVEY	
NOTE BOOK	
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ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	

NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS STAGE IA - WEILAND ROAD**

SHEET NO. 2 OF 2 SHEETS STA. 35+50 TO STA. 36+50

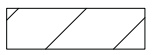
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	371
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

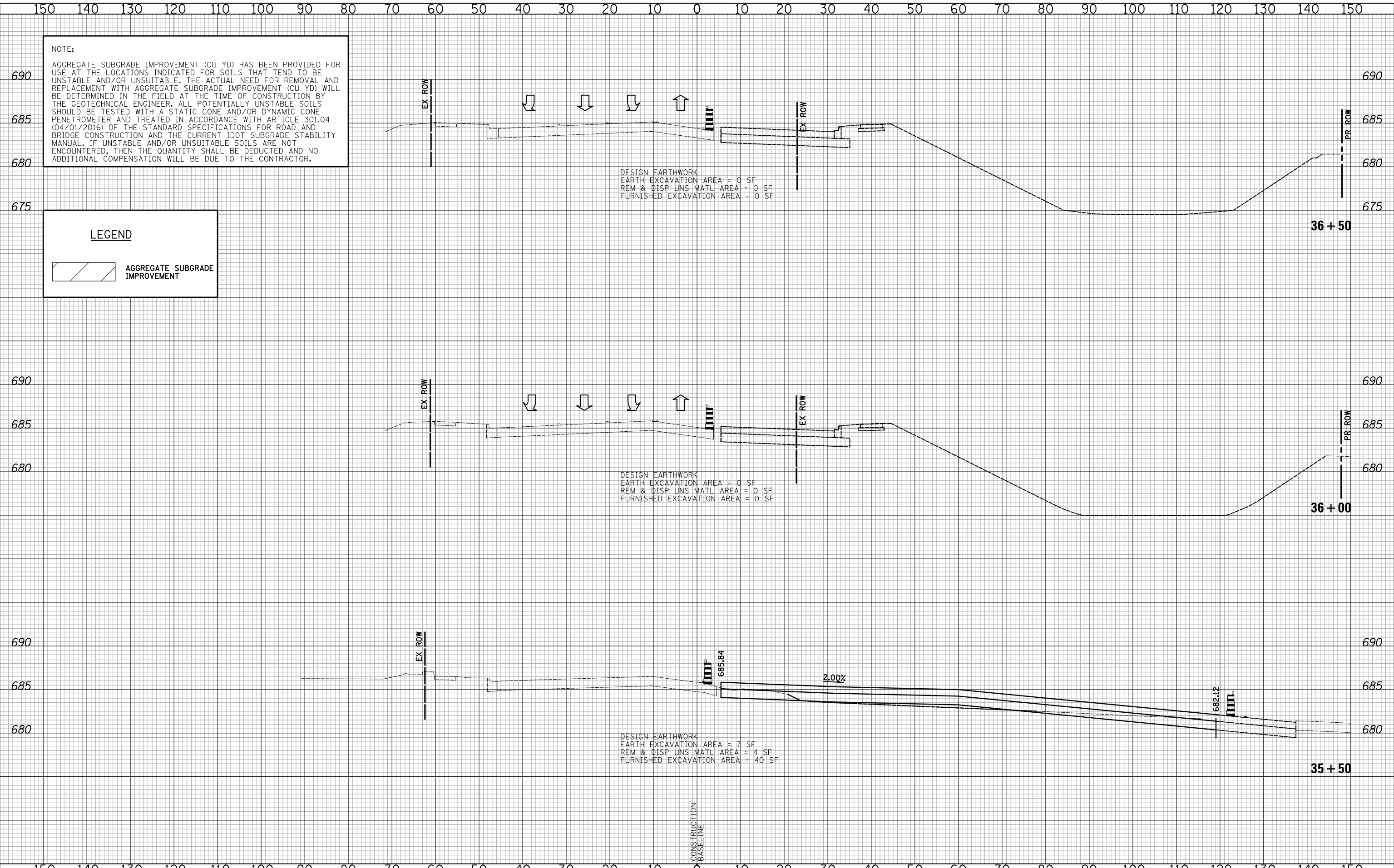


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ORIGINAL	
SURVEY	
NOTE BOOK	
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 0 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 0 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 0 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 0 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 7 SF  
 REM & DISP UNS MATL AREA = 4 SF  
 FURNISHED EXCAVATION AREA = 40 SF

CONSTRUCTION  
 BASELINE

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DATE - 10/8/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

VERT. 0 5 10  
 HORIZ. 0 10 20  
**SCALES**

**CROSS SECTIONS STAGE IB - WEILAND ROAD**

SHEET NO. 2 OF 2 SHEETS STA. 35+50 TO STA. 36+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	373
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

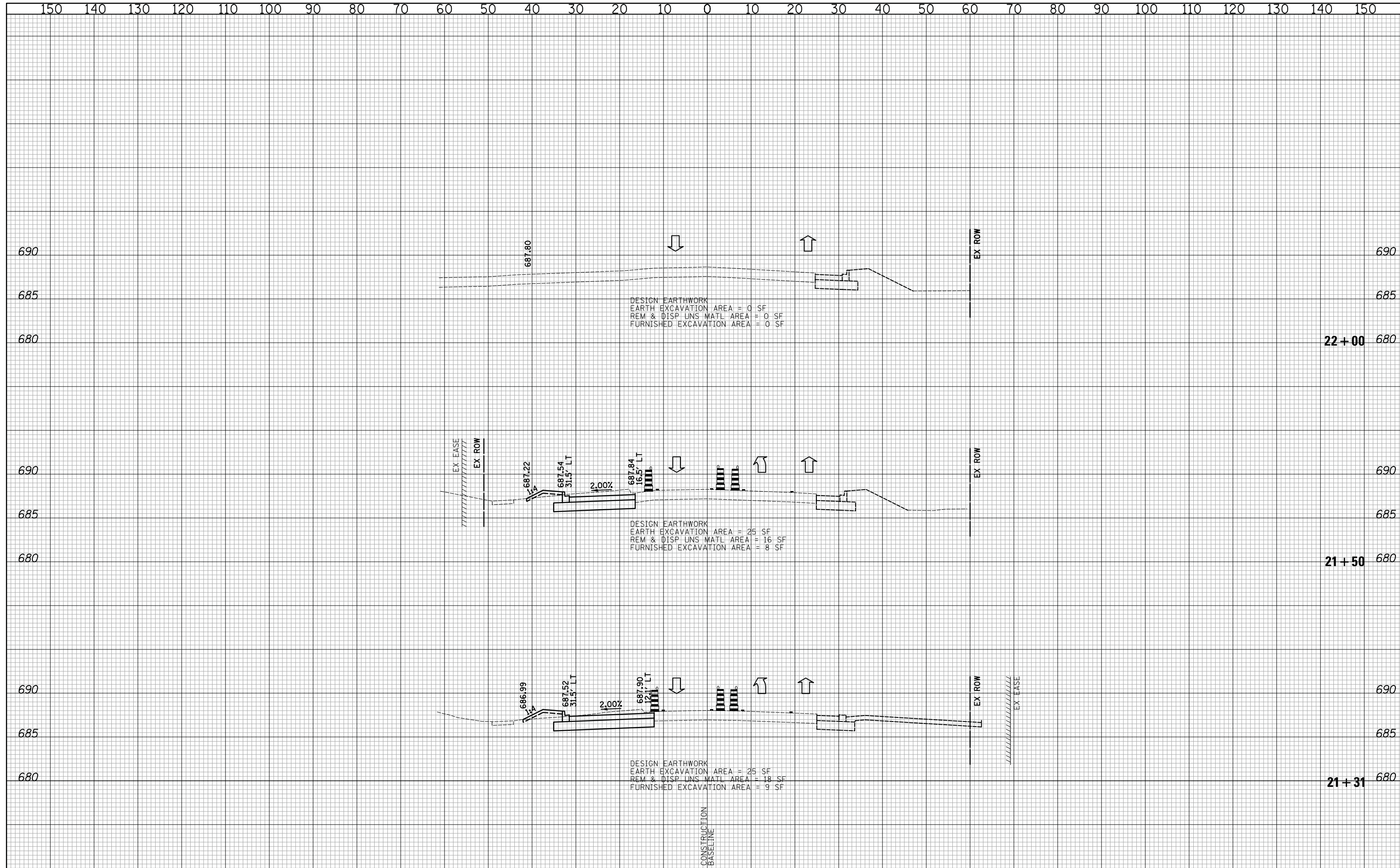






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FINAL SURVEY	
NOTE BOOK	
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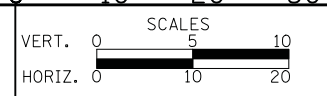
DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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**DEPARTMENT OF TRANSPORTATION**

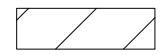


**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 3 OF 54 SHEETS STA. 21+31 TO STA. 22+00

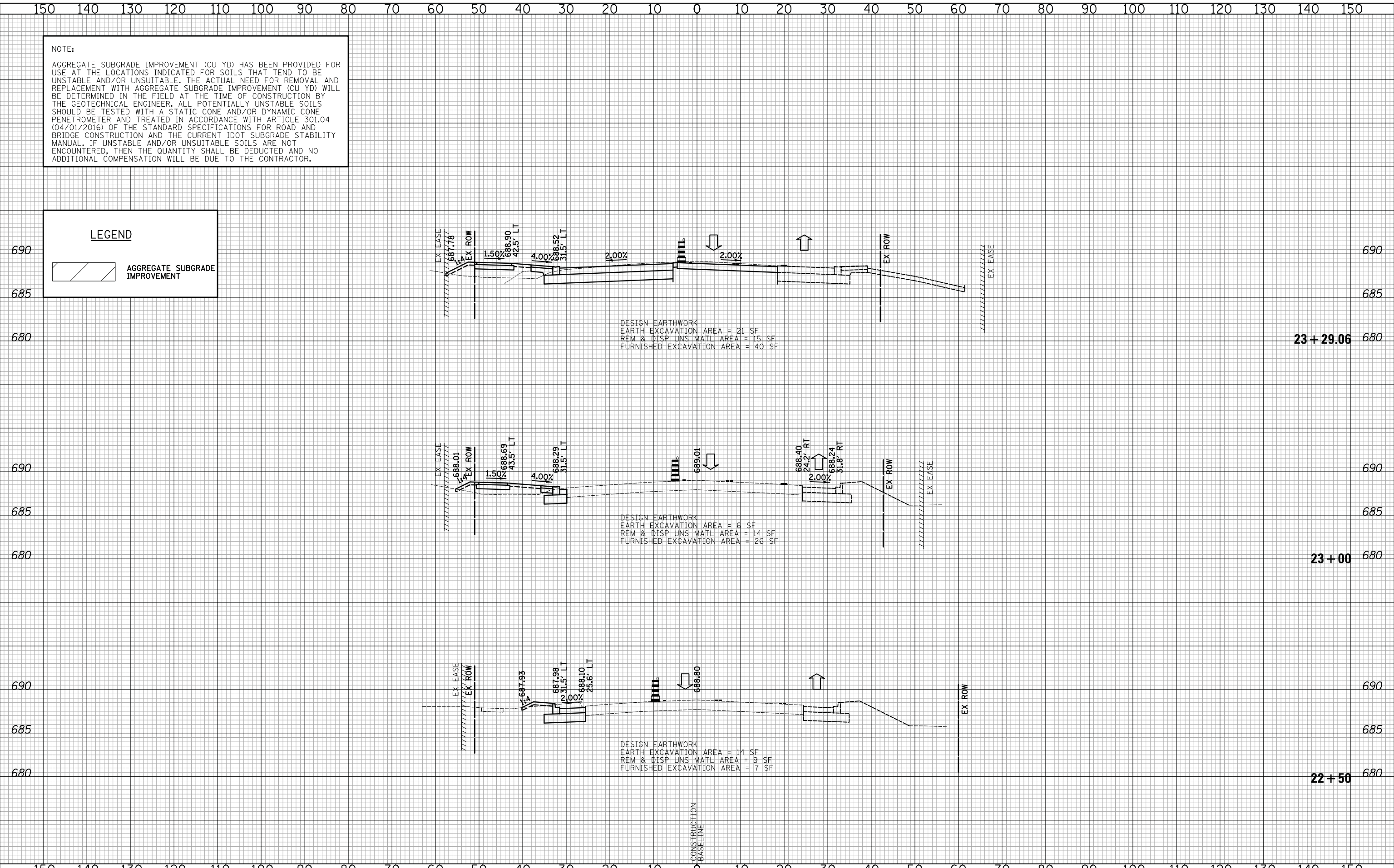
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	376
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTE:  
 AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

LEGEND  
 AGGREGATE SUBGRADE IMPROVEMENT

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
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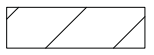


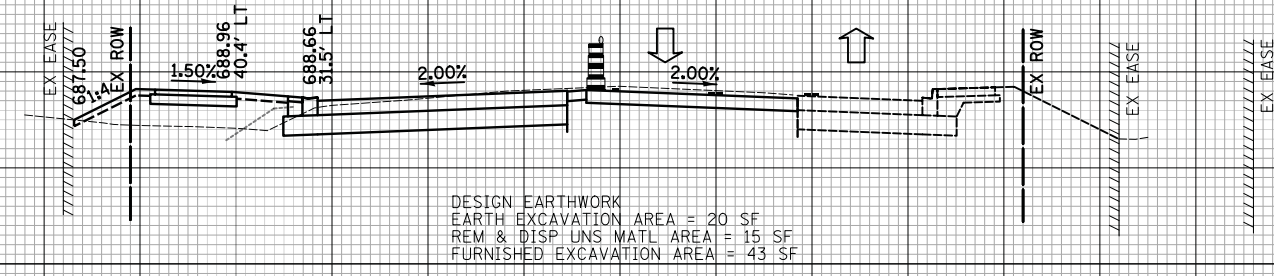
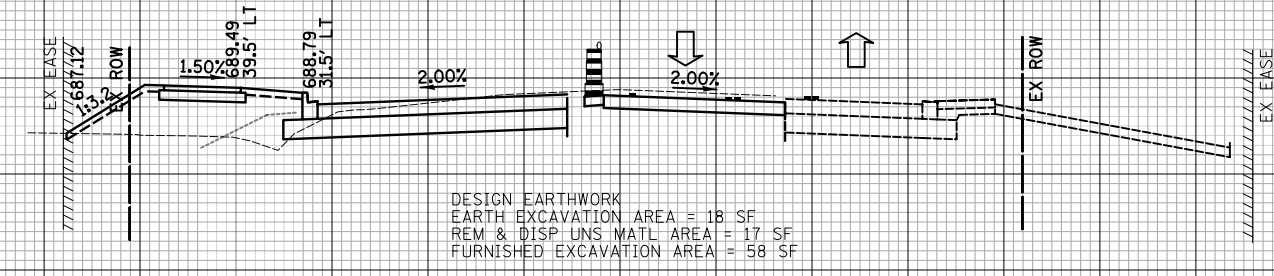
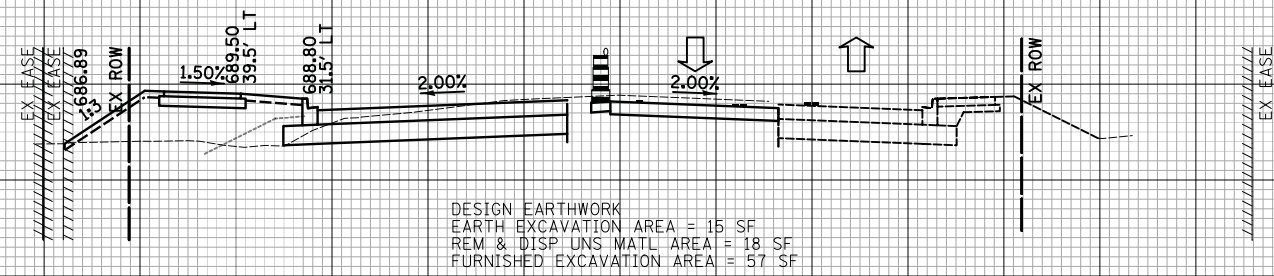
CROSS SECTIONS STAGE II - WEILAND ROAD

SHEET NO. 4 OF 54 SHEETS STA. 22+50 TO STA. 23+29.06

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	377
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



DATE	
BY	
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TEMPLATE	
AREAS CHECKED	
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TEMPLATE	
AREAS CHECKED	
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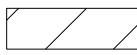
**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 5 OF 54 SHEETS STA. 23+50 TO STA. 24+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	378
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

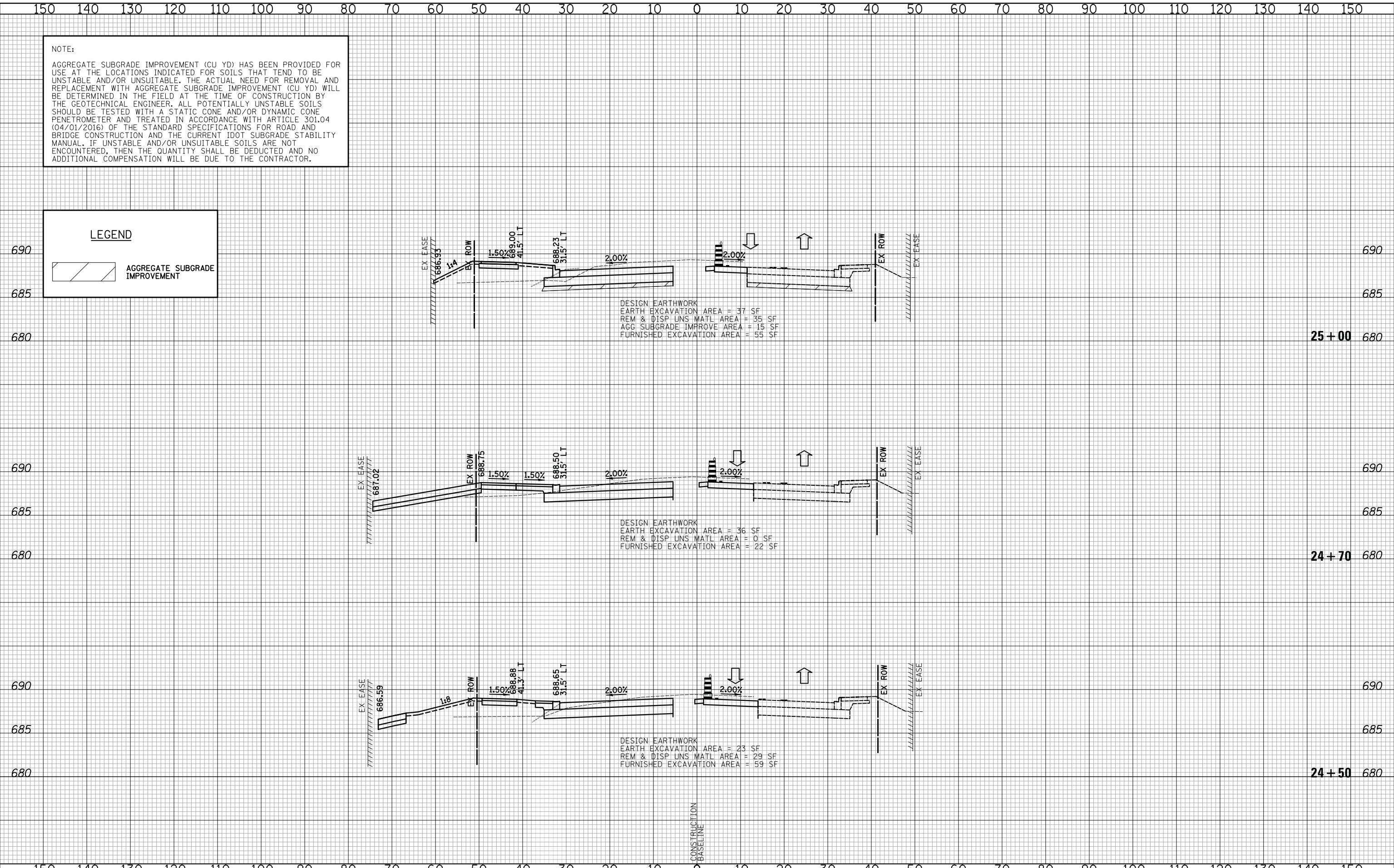


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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT

DATE	
BY	
FINAL SURVEY	
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ORIGINAL SURVEY	
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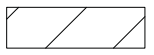


DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 37 SF  
 REM & DISP UNS MATL AREA = 35 SF  
 AGG SUBGRADE IMPROVE AREA = 15 SF  
 FURNISHED EXCAVATION AREA = 55 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 36 SF  
 REM & DISP UNS MATL AREA = 0 SF  
 FURNISHED EXCAVATION AREA = 22 SF

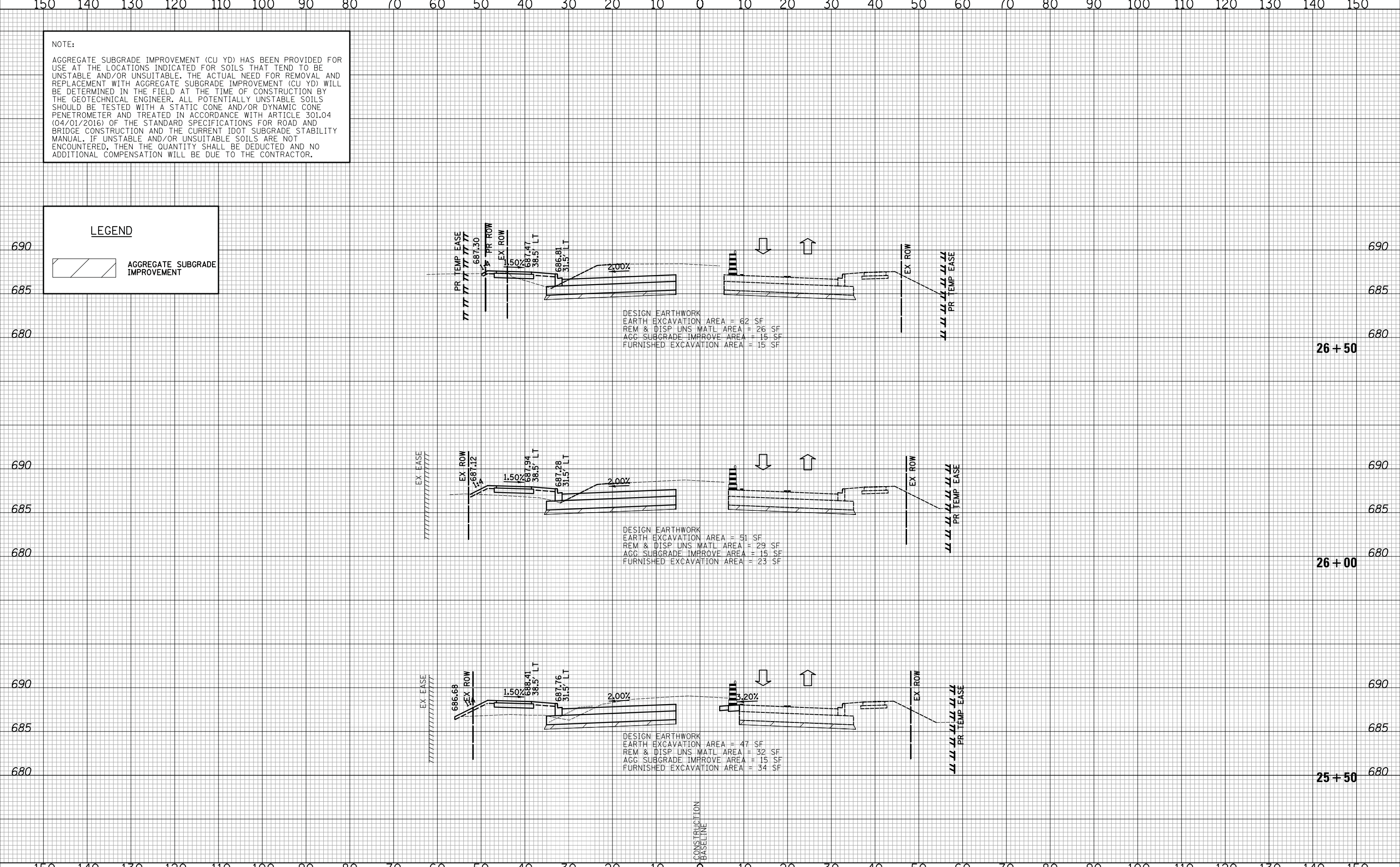
DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 23 SF  
 REM & DISP UNS MATL AREA = 29 SF  
 FURNISHED EXCAVATION AREA = 59 SF

NOTE:  
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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT

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

DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK NO.	
AREAS CHECKED	



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**DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 7 OF 54 SHEETS STA. 25+50 TO STA. 26+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	380
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

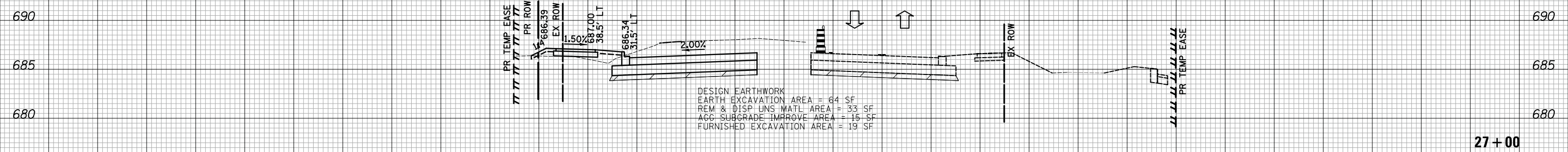
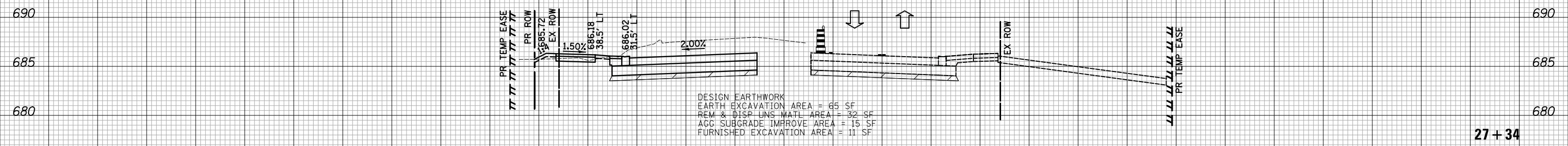
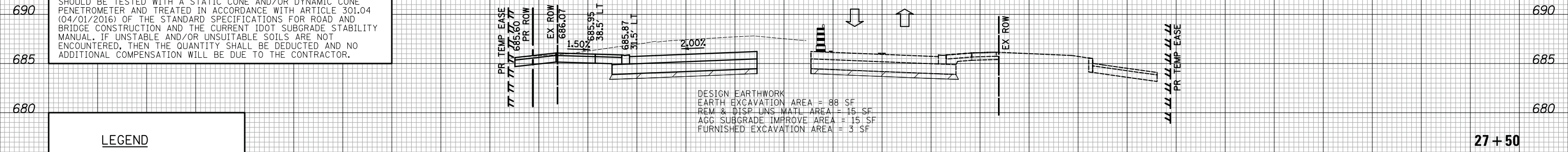
DATE	BY
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TEMPLATE	AREAS CHECKED
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DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NO.	

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**LEGEND**

AGGREGATE SUBGRADE IMPROVEMENT

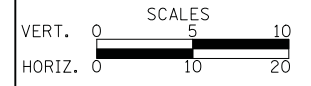


CONSTRUCTION  
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**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 8 OF 54 SHEETS STA. 27+00 TO STA. 27+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	381
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				








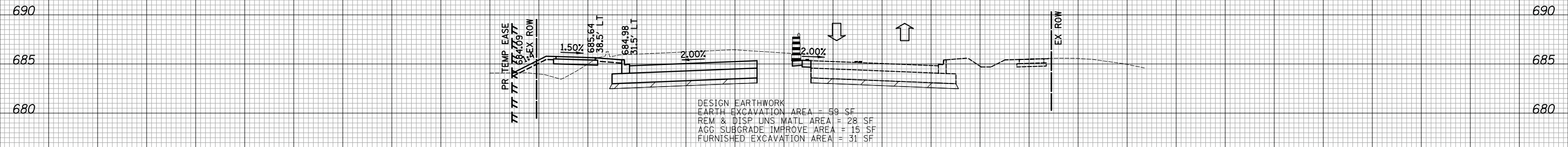
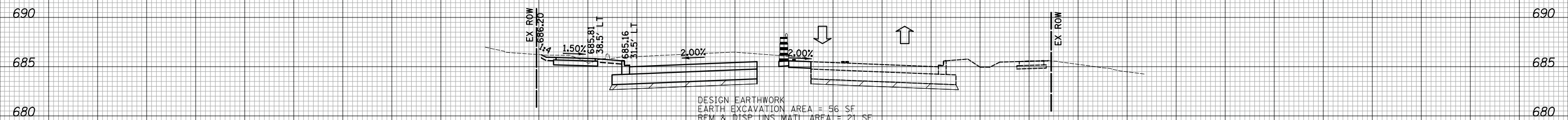
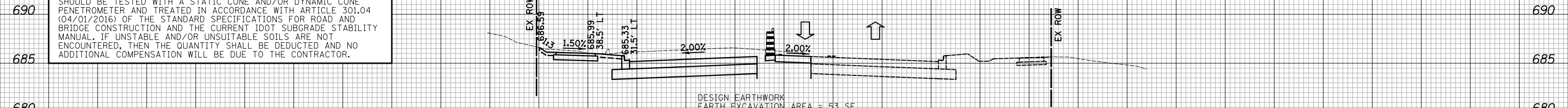
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NOTE BOOK	
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**LEGEND**

 AGGREGATE SUBGRADE IMPROVEMENT



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**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 11 OF 54 SHEETS STA. 30+50 TO STA. 31+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	384
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61E24	





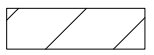


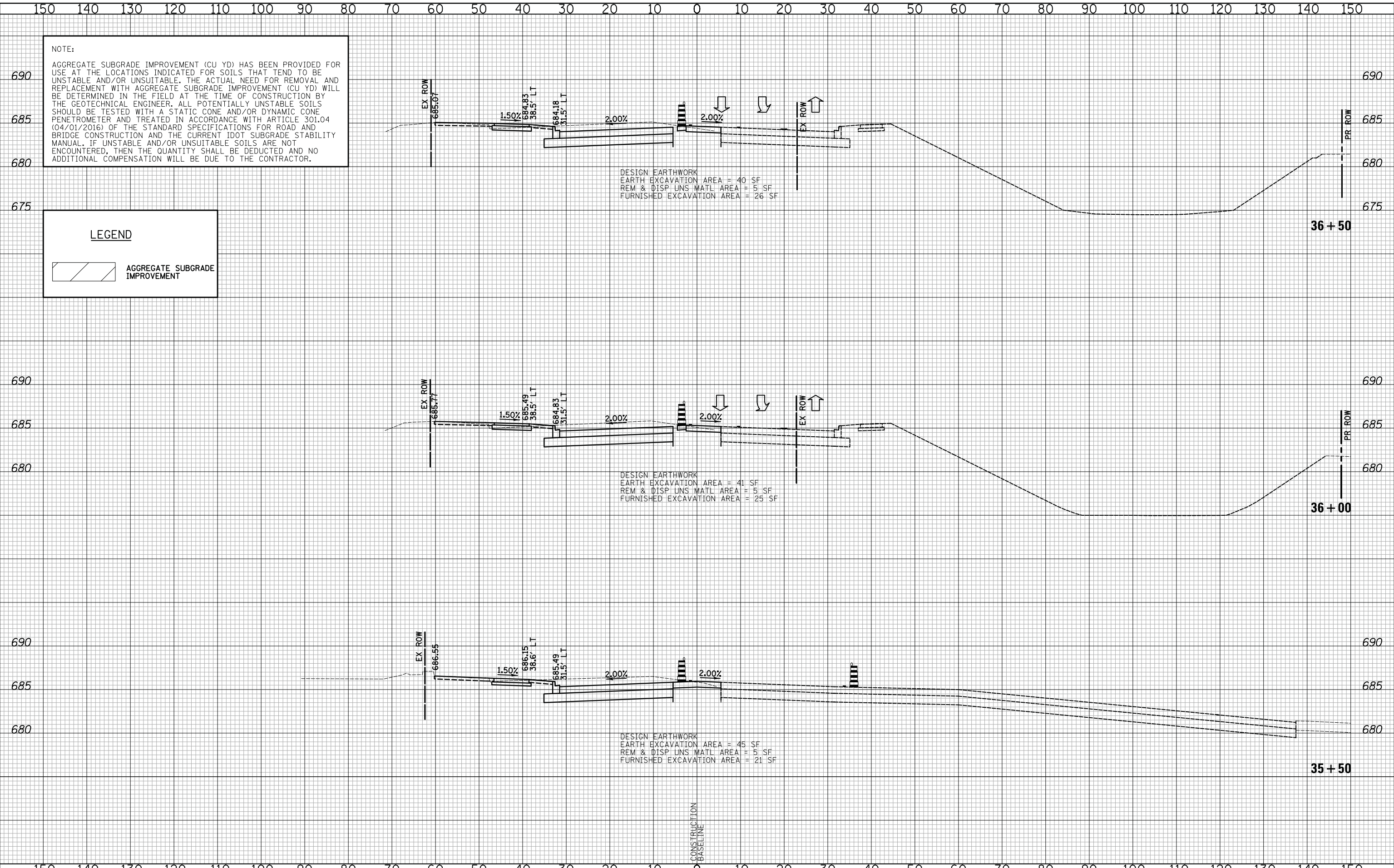


DATE	
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AREAS	
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DATE	
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TEMPLATE	
AREAS	
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NO.	

NOTE:  
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LEGEND  
 AGGREGATE SUBGRADE IMPROVEMENT



**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

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CHECKED - JRV	REVISED -
DATE - 10/8/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



CROSS SECTIONS STAGE II - WEILAND ROAD

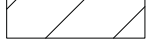
SHEET NO. 15 OF 54 SHEETS STA. 35+50 TO STA. 36+50

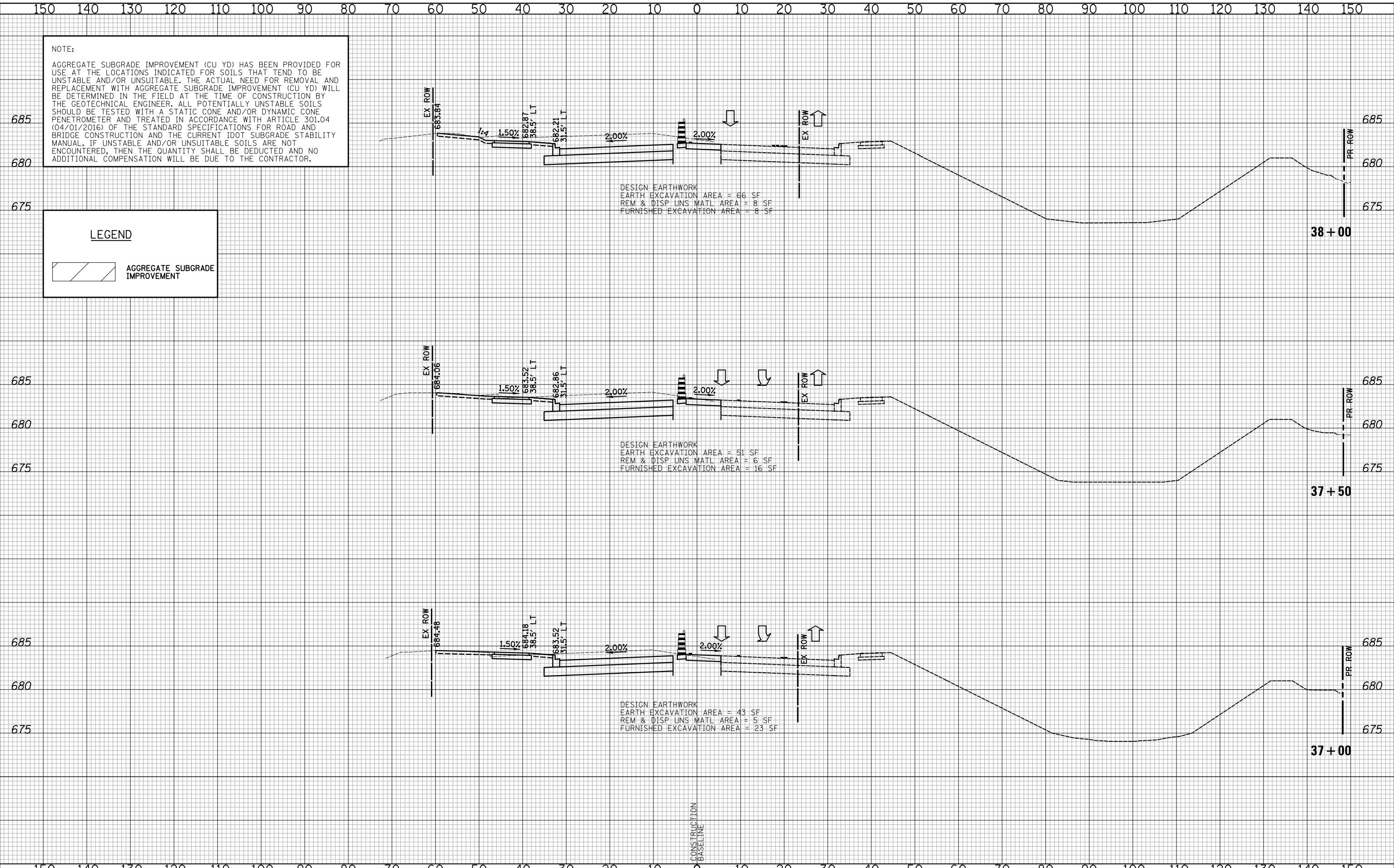
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	388
CONTRACT NO. 61E24				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

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**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 16 OF 54 SHEETS STA. 37+00 TO STA. 38+00

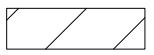
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	389
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

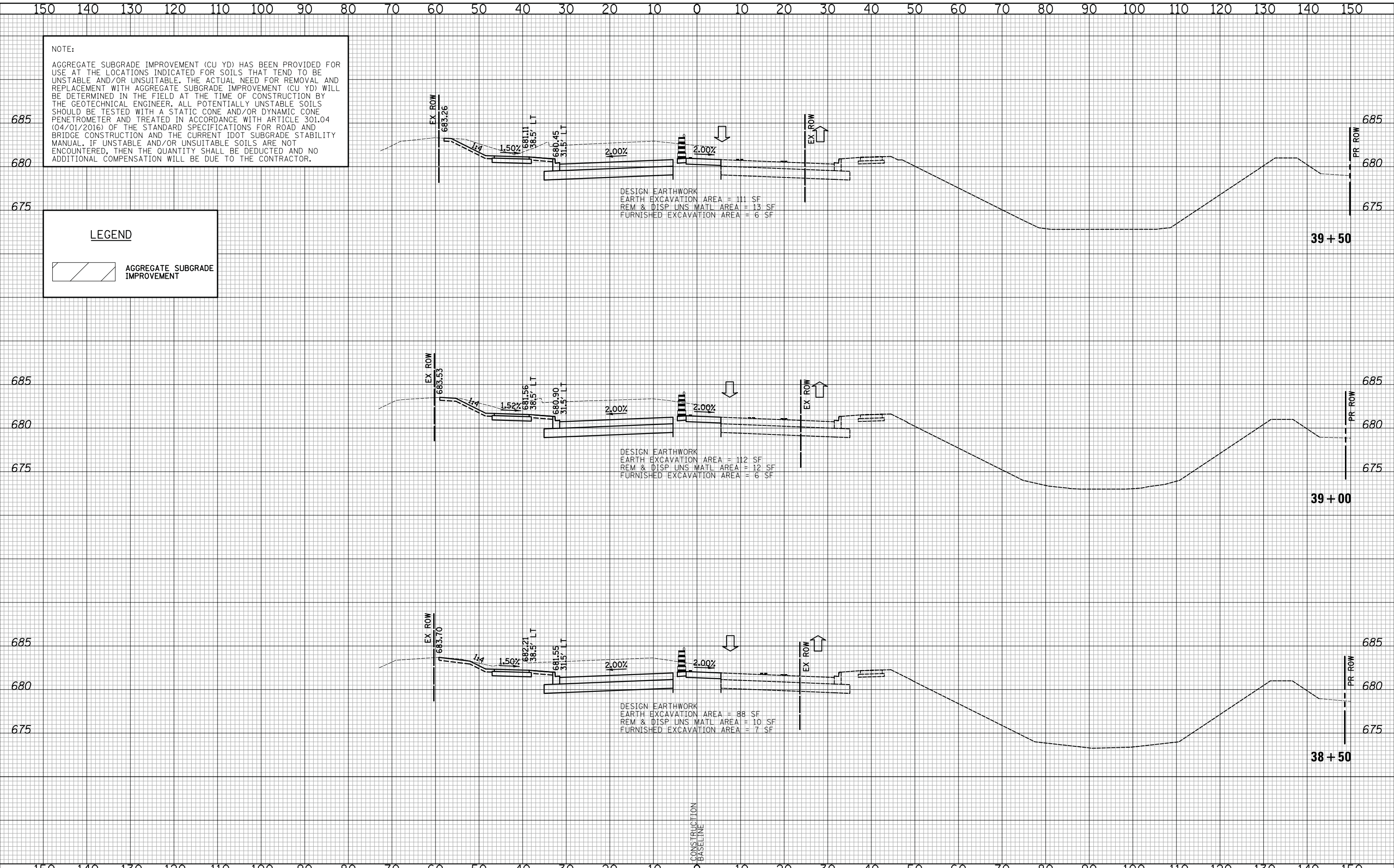
DATE	
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TEMPLATE	
AREAS	
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NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

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**LEGEND**

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CROSS SECTIONS STAGE II - WEILAND ROAD

SHEET NO. 17 OF 54 SHEETS STA. 38+50 TO STA. 39+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	390
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				











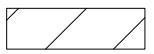


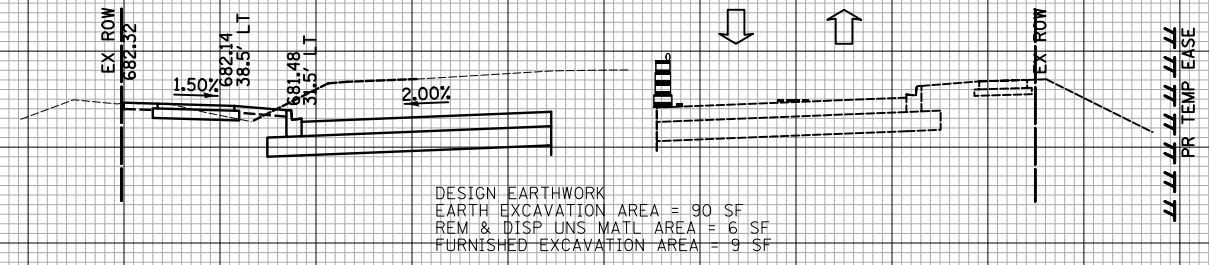




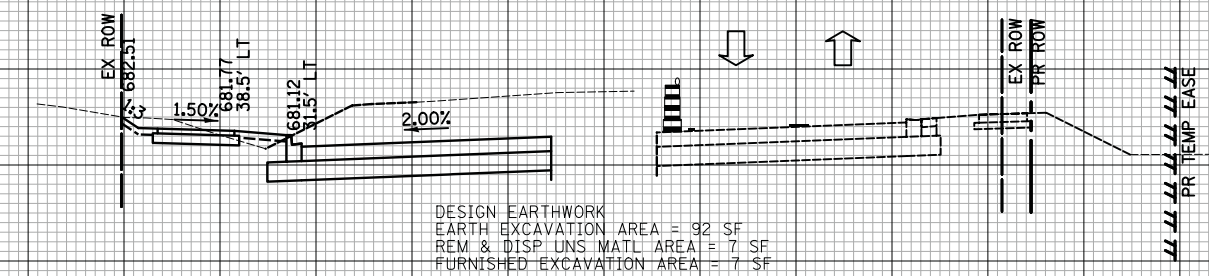


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**LEGEND**  
 AGGREGATE SUBGRADE IMPROVEMENT



45 + 50



45 + 00

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	NO.

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	NO.

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**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 25 OF 54 SHEETS STA. 45+00 TO STA. 45+50

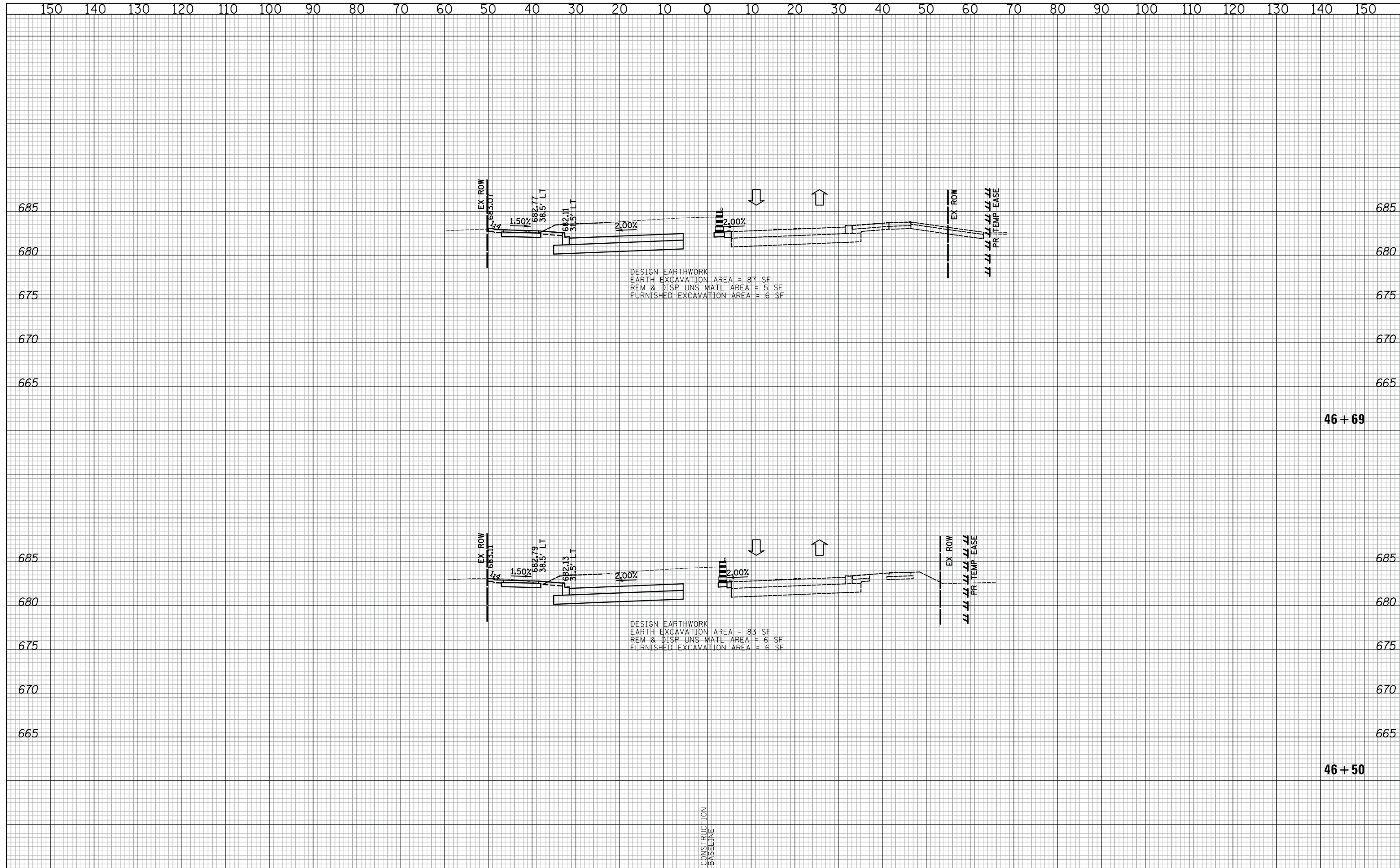
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	398
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 87 SF  
 REM & DISP UNS MATL AREA = 5 SF  
 FURNISHED EXCAVATION AREA = 6 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 83 SF  
 REM & DISP UNS MATL AREA = 6 SF  
 FURNISHED EXCAVATION AREA = 6 SF

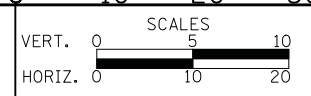
46 + 69

46 + 50

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**CROSS SECTIONS STAGE II - WEILAND ROAD**

SHEET NO. 27 OF 54 SHEETS STA. 46+50 TO STA. 46+69

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	14-00158-11-WR	LAKE	537	400
				CONTRACT NO. 61E24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				