

**SEWARD TOWNSHIP  
ROAD DISTRICT**

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	1
ILLINOIS		CONTRACT NO.		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**TRAFFIC DATA:**

O'BRIEN RD ADT:  
ADT 2019 : 675

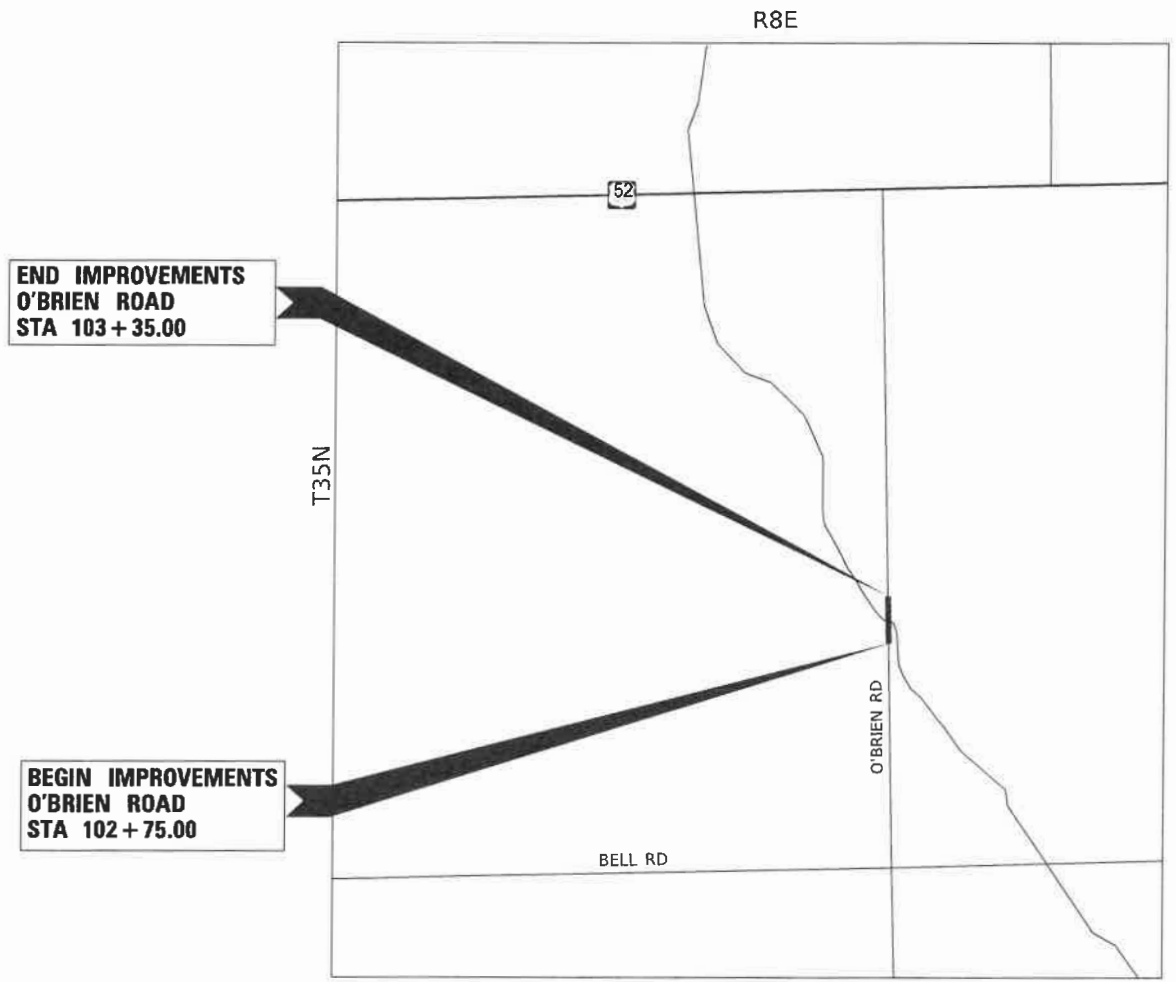
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DESIGN SPEED : 55 MPH

**DESIGN DESIGNATION:**

LOCAL ROUTE

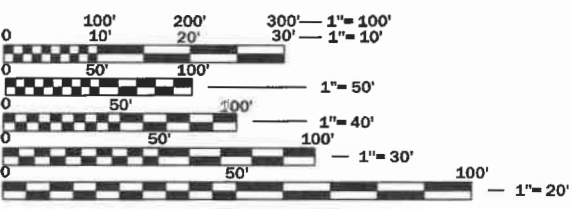
**PROPOSED  
HIGHWAY PLANS**

**O'BRIEN ROAD CULVERT REPLACEMENT  
KENDALL COUNTY  
SECTION: 21-09124-00-DR**



**END IMPROVEMENTS  
O'BRIEN ROAD  
STA 103 + 35.00**

**BEGIN IMPROVEMENTS  
O'BRIEN ROAD  
STA 102 + 75.00**



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

**LOCATION MAP  
(NOT TO SCALE)**  
GROSS LENGTH = 60 FT. = 0.01 MILE  
NET LENGTH = 60 FT. = 0.01 MILE



*MJW* / *W* 3/11/2022  
MICHAEL J. WITTKOP, P.E., CPESC  
NO. 062-060955  
EXPIRES: 11/30/2023  
HR GREEN, INC.

**HRGreen**  
2363 SEQUOIA DRIVE, SUITE 101 | AURORA, ILLINOIS 60506  
Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

APPROVED *3-14* 20*22*  
*Scott G. Gals*  
WARD TOWNSHIP ROAD DISTRICT

## GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2022; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THESE PLANS; AND THE SPECIAL PROVISIONS IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOT SCALE FROM THE PLANS FOR CONSTRUCTION PURPOSES. SCALES ARE SHOWN FOR INFORMATION ONLY.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING. THE CONTRACTOR SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS SUCH AS, BUT NOT LIMITED TO, DRAINAGE, GEOMETRICS, AND GRADING.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. RESTORATION SHALL BE INITIATED AS WORK PROGRESSES TO THE EXTENT CONSIDERED PRACTICAL.
- THE CONTRACTOR SHALL RETURN ALL EXISTING AREAS (TO REMAIN) AFFECTED BY THE CONSTRUCTION ACTIVITIES, PERSONNEL, OR EQUIPMENT TO THE ORIGINAL UNDISTURBED CONDITIONS. THE CONTRACTOR SHALL ADDITIONALLY PROTECT AND MAINTAIN ALL COMPLETED WORK IN ACCORDANCE WITH ARTICLE 107.03.
- THE CONTRACTOR SHALL PLAN ALL OF THEIR WORK BASED UPON THEIR OWN EXPLORATIONS, SOIL BORINGS, AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS WITHIN THE PROPOSED IMPROVEMENTS. HOWEVER, THE OWNER HAS PERFORMED A GEOTECHNICAL INVESTIGATION AND THE GEOTECHNICAL REPORT WILL BE MADE AVAILABLE UPON REQUEST. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION, CONTACT MIKE WITTKOP OF HR GREEN AT 630.708.5048.

## EARTHWORK NOTES

- MEASUREMENT AND PAYMENT OF ALL EARTHWORK PAY ITEMS SHALL ONLY OCCUR ONCE. ANY AND ALL NECESSARY STOCKPILING AND EXTRA HANDLING OF EARTHWORK FOR LATER USE SHALL BE FACTORED INTO THE CONTRACTOR'S BID UNIT COST FOR EARTH EXCAVATION AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. THIS INCLUDES INSTANCES OF SATURATED MATERIALS NEEDING TO BE DRIED PRIOR TO INCORPORATION OR DISPOSAL OFF-SITE.
- UNDERCUTS (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES AND REPLACEMENT WITH ROCK FILL AND GEOTECHNICAL FABRIC) HAVE BEEN ESTIMATED BASED UPON THE GEOTECHNICAL REPORT. ALL UNDERCUTS SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR IN ACCORDANCE WITH IDOT MANUAL FOR TEST PROCEDURES OR MATERIALS AND THE IDOT SOILS FIELD TESTING AND INSPECTION MANUAL. FINAL QUANTITY OF UNDERCUTS SHALL BE AS DETERMINED AND MEASURED IN THE FIELD AND CHANGES IN QUANTITIES SHALL NOT BE CONSIDERED A SIGNIFICANT CHANGE UNDER ARTICLE 104.02.
- A 15% SHRINKAGE FACTOR HAS BEEN APPLIED FOR ALL EMBANKMENT TO BE PLACED ON SITE.
- EARTHWORK QUANTITIES AND EARTHWORK BALANCE DOES NOT INCLUDE USE OF TRENCH SPOILS IN EMBANKMENT. REMOVAL AND DISPOSAL OF TRENCH SPOILS IS INCLUDED IN THE UNIT COST BID FOR TRENCH BACKFILL IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. SUITABLE TRENCH SPOILS MAY BE UTILIZED AS EMBANKMENT IF APPROVED BY THE ENGINEER. USE OF TRENCH SPOILS AS EMBANKMENT SHALL NOT ALTER THE PLAN EARTHWORK QUANTITIES.

## UTILITY AND DRAINAGE NOTES

- THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN IN THE PLANS IS FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT TO BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUB-CONTRACTOR TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ITS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
- WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF EXISTING UTILITY FACILITIES, SUCH INFORMATION ONLY REPRESENTS THE APPROXIMATE LOCATIONS BASED UPON PROVIDED ATLAS INFORMATION RECEIVED FROM UTILITY OWNERS. THE CONTRACTOR SHALL NOT ASSUME THAT THE LOCATIONS ARE EXACT, AND SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY FACILITIES FROM CONSTRUCTION ACTIVITIES EVEN IN THE EVENT THEY ARE NOT SHOWN IN THE PLANS. THE CONTRACTOR SHALL CONTACT "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 811 OR 1-800-892-0123 FOR FIELD LOCATION OF UTILITIES PRIOR TO ANY EXCAVATIONS. ANY UTILITY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE CONTRACTOR'S SCHEDULE SHALL REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE SCHEDULE OF WORK TO COORDINATE WITH THE RELOCATION OF CONFLICTING UTILITY COMPANIES.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES THROUGHOUT THE DURATION OF THE CONTRACT. METHODS UTILIZED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ANY FARM DRAIN, FIELD TILE SYSTEM, OR OTHER TILE FACILITY ENCOUNTERED DURING THE PROPOSED WORK SHALL BE LOCATED, STAKED, AND REPORTED TO THE ENGINEER. DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATING, OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER OR DITCH IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED. THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

## COMMONWEALTH EDISON NOTES

- IF THE CONTRACTOR DETERMINES A LINE OUTAGE WILL BE REQUIRED TO SAFELY WORK WITHIN THE VICINITY OF EXISTING OVERHEAD FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADVANCED NOTIFICATION AND COORDINATION WITH COMMONWEALTH EDISON. AT A MINIMUM THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE NATURE OF THE WORK THAT WILL BE PERFORMED, TYPE OF CONSTRUCTION EQUIPMENT, AND AN EXPLANATION OF ALTERNATIVES (IF ANY) THAT MAY BE AVAILABLE WITH AN EXPLANATION OF WHY THEY WILL NOT BE PRACTICAL.
- ANY AND ALL OPEN TRENCHING WITHIN THREE (3) FEET OF A UTILITY POLE MAY REQUIRE BRACING BY THE UTILITY COMPANY. BRACING MAY REQUIRE UP TO SIX (6) WEEKS NOTICE.

## INDEX OF SHEETS

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8	DETOUR PLANS
9 - 11	EROSION CONTROL PLAN AND DETAILS
12 - 13	PRECAST CULVERT DETAILS
14	SOIL BORING LOGS
15 - 17	CROSS SECTIONS

## LIST OF HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-RD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)

## LIST OF IDOT DISTRICT 3 STANDARDS

780-8	PAVEMENT MARKING
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LOCATION	21101505	20200100	20400800
	TOPSOIL STRIPPING	TOPSOIL EXCAVATION & PLACEMENT	EARTHWORK EXCAVATION
	(CU YD)	(CU YD)	(CU YD)
O'BRIEN RD	35.0	14.0	165.0
			203.0
			-46.0
TOTAL	35.0	14.0	165.0
			203.0
			-46.0

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 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322



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PLOT DATE = 3/11/2022	DATE - 03/04/2022	REVISED -

### SEWARD TOWNSHIP ROAD DISTRICT

### GENERAL NOTES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	2
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	165
20400800	FURNISHED EXCAVATION	CU YD	46
20700220	POROUS GRANULAR EMBANKMENT	CU YD	330
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	152
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	14
25000210	SEEDING, CLASS 2A	ACRE	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6
25100630	EROSION CONTROL BLANKET	SQ YD	314
28000400	PERIMETER EROSION BARRIER	FOOT	55
28100107	STONE RIPRAP, CLASS A4	SQ YD	63
28200200	FILTER FABRIC	SQ YD	63
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	154
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	330
40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	47
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	17
44000100	PAVEMENT REMOVAL	SQ YD	139
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	44

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	26
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	43
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	75
67100100	MOBILIZATION	L SUM	1
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	120
* X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	75
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* Z0054400	ROCK FILL	CU YD	26

\* = SPECIAL PROVISION  
Δ = SPECIALITY ITEM

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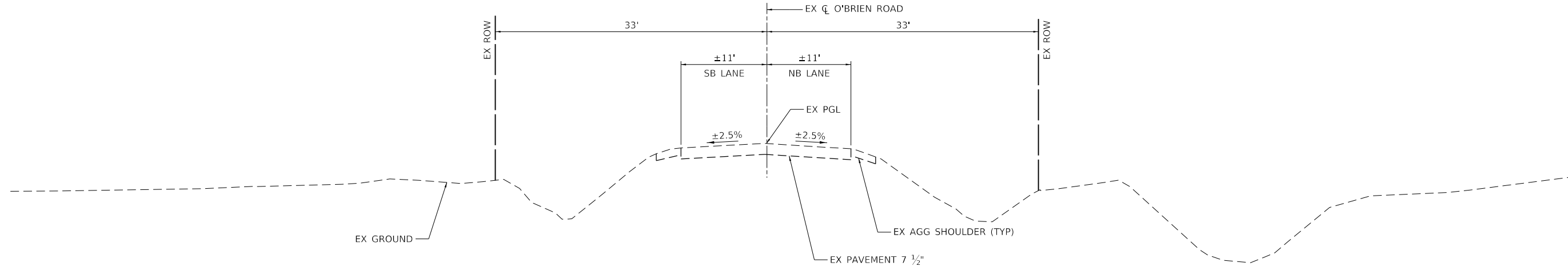
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**SEWARD TOWNSHIP  
ROAD DISTRICT**

**SUMMARY OF QUANTITIES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	3
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION  
O'BRIEN ROAD**

STA 102+75.00 TO STA 103+35.00

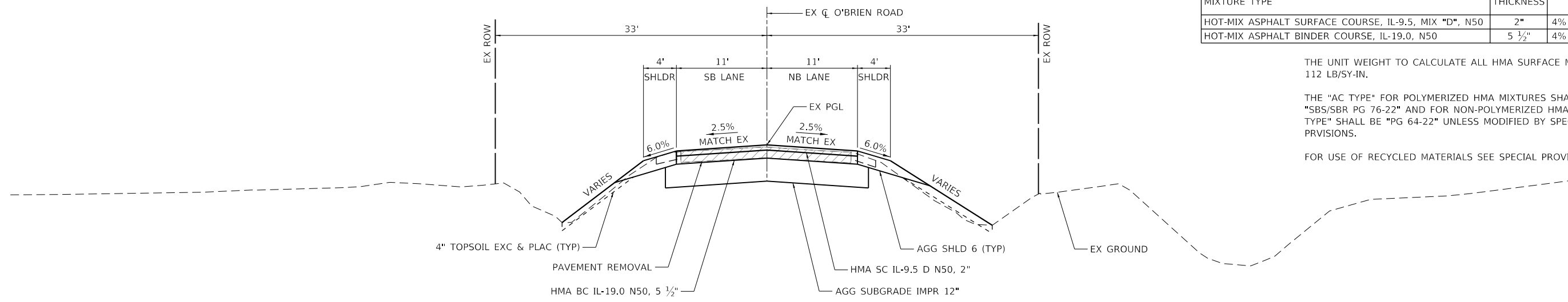
**HOT-MIX ASPHALT MIX REQUIREMENTS**

MIXTURE TYPE	THICKNESS	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	5 1/2"	4% @ 50 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURES IS 112 LB/SY-IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



**PROPOSED TYPICAL SECTION  
O'BRIEN ROAD**

STA 102+75.00 TO STA 103+35.00

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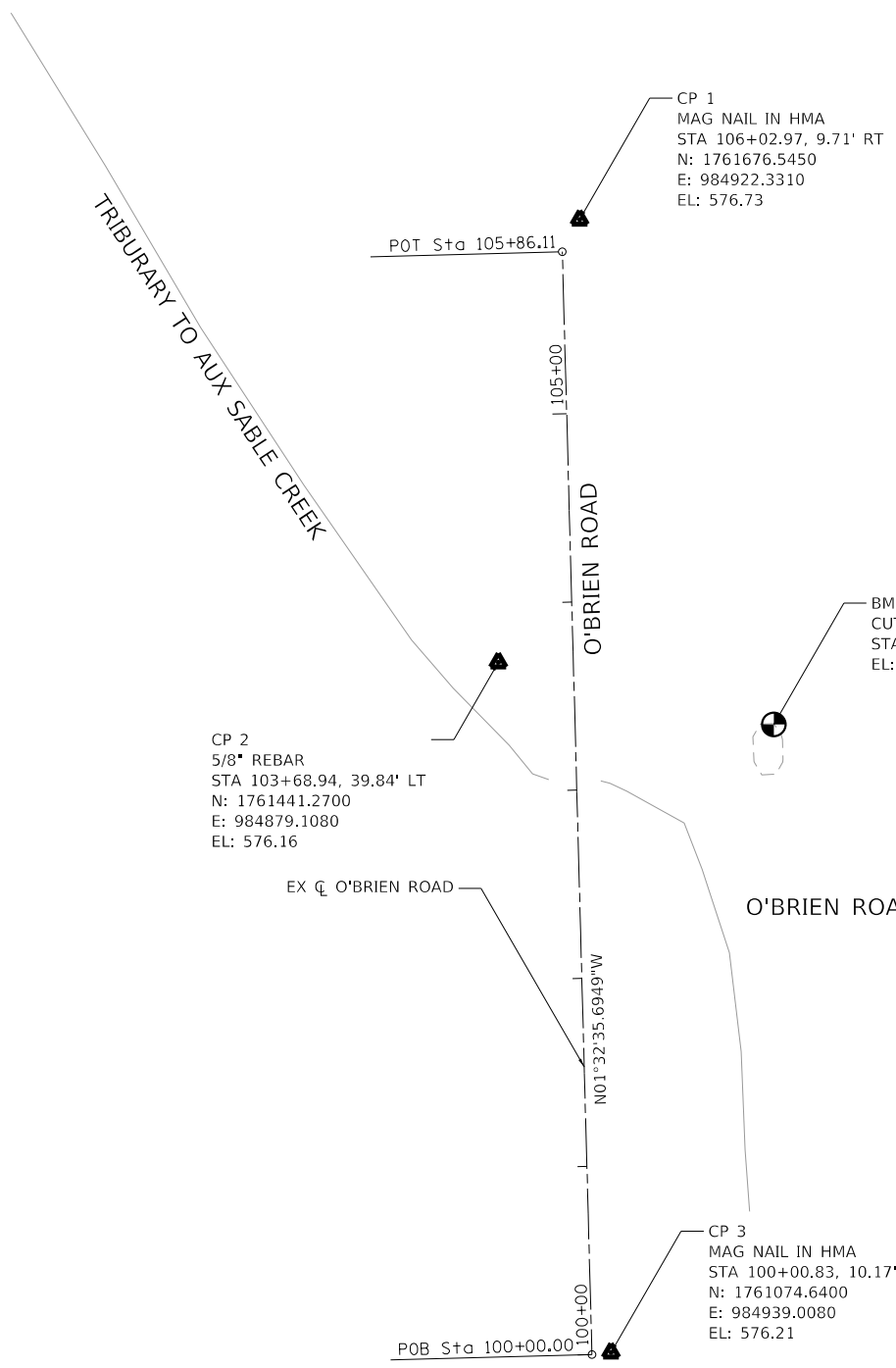
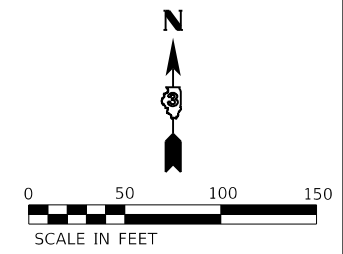
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**SEWARD TOWNSHIP  
ROAD DISTRICT**

**TYPICAL SECTIONS  
O'BRIEN ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



O'BRIEN ROAD ALIGNMENT INFORMATION			
REFERENCE POINT	STATION	NORTHING	EASTING
POB	100+00.00	1761073.5369	984928.8663
POT	105+86.11	1761073.5369	984928.8663

CP 2  
5/8" REBAR  
STA 103+68.94, 39.84' LT  
N: 1761441.2700  
E: 984879.1080  
EL: 576.16

CP 1  
MAG NAIL IN HMA  
STA 106+02.97, 9.71' RT  
N: 1761676.5450  
E: 984922.3310  
EL: 576.73

BM 1  
CUT CROSS IN CONCRETE  
STA 103+32.03, 105.58' RT  
EL: 576.43

CP 3  
MAG NAIL IN HMA  
STA 100+00.83, 10.17' RT  
N: 1761074.6400  
E: 984939.0080  
EL: 576.21

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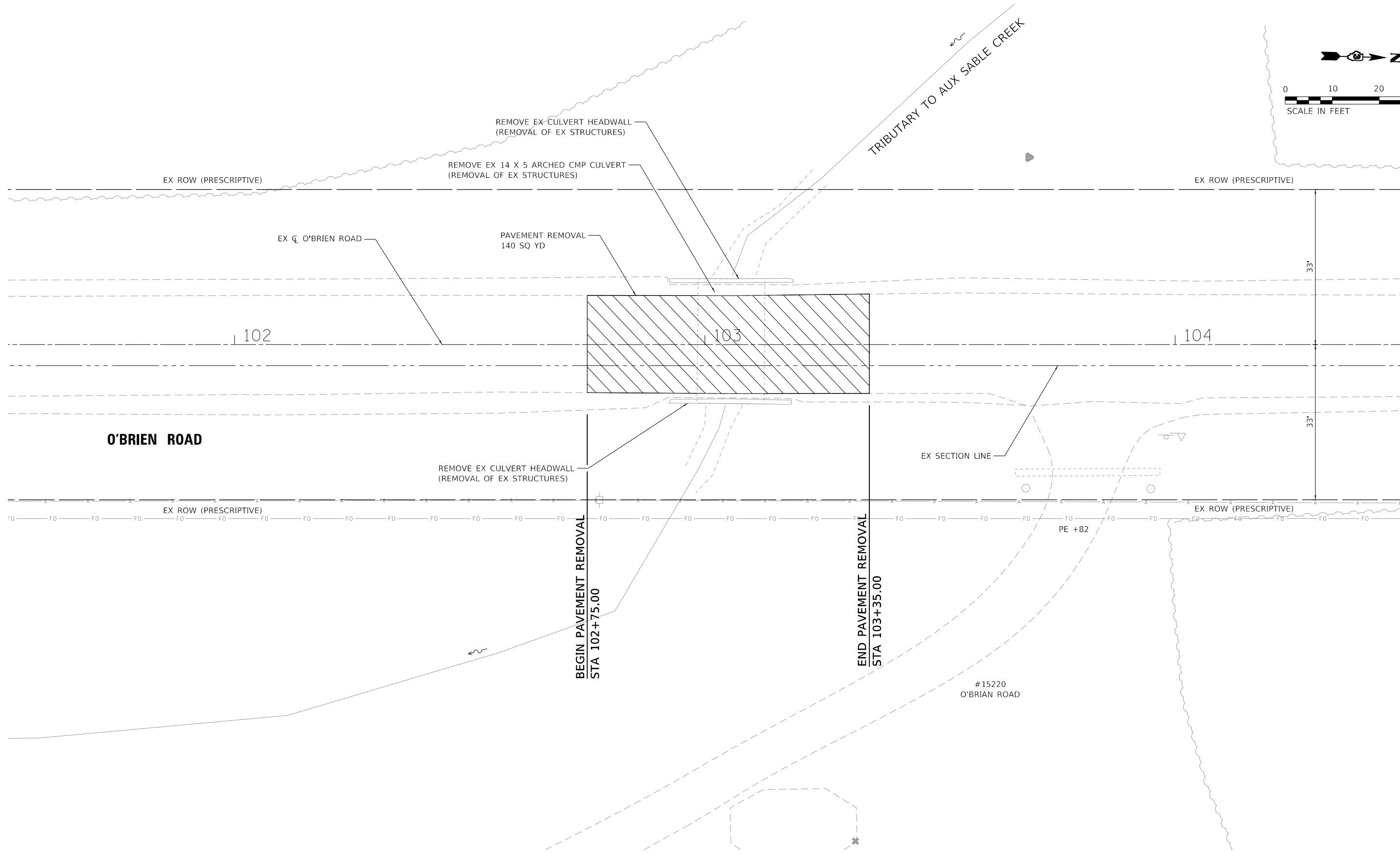
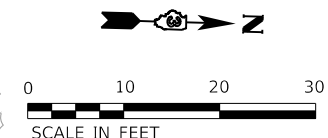
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**SEWARD TOWNSHIP  
ROAD DISTRICT**

**ALIGNMENT, TIES AND BENCHMARKS**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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**SEWARD TOWNSHIP  
ROAD DISTRICT**

**REMOVAL PLAN  
O'BRIEN ROAD**

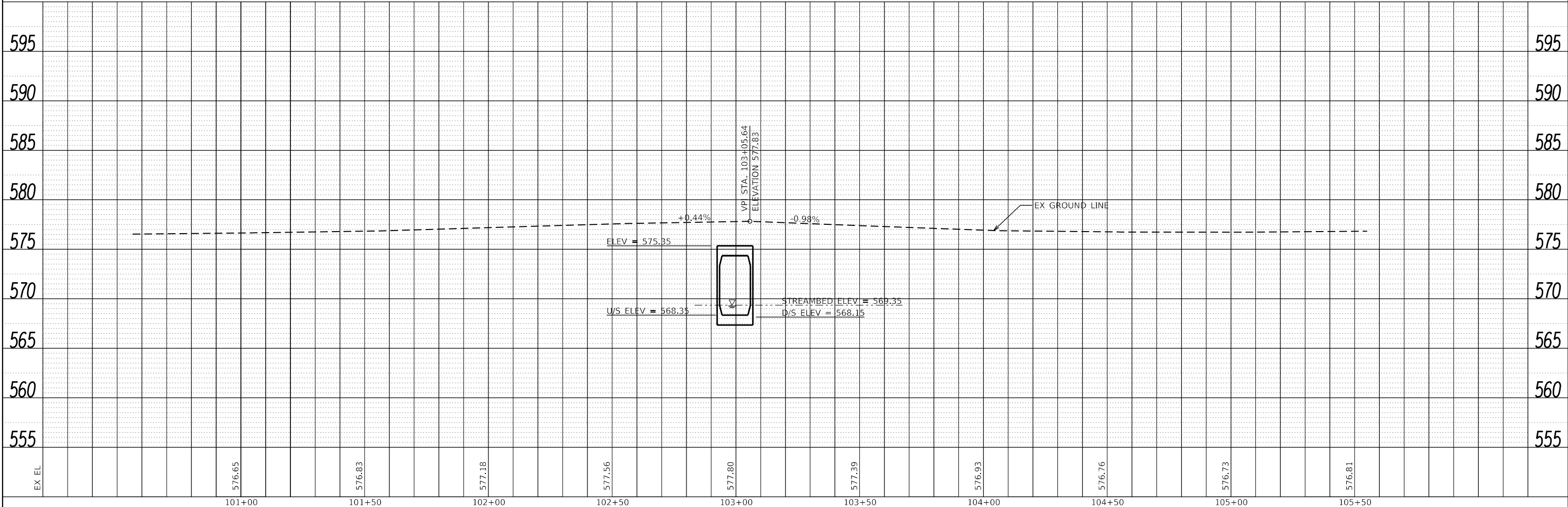
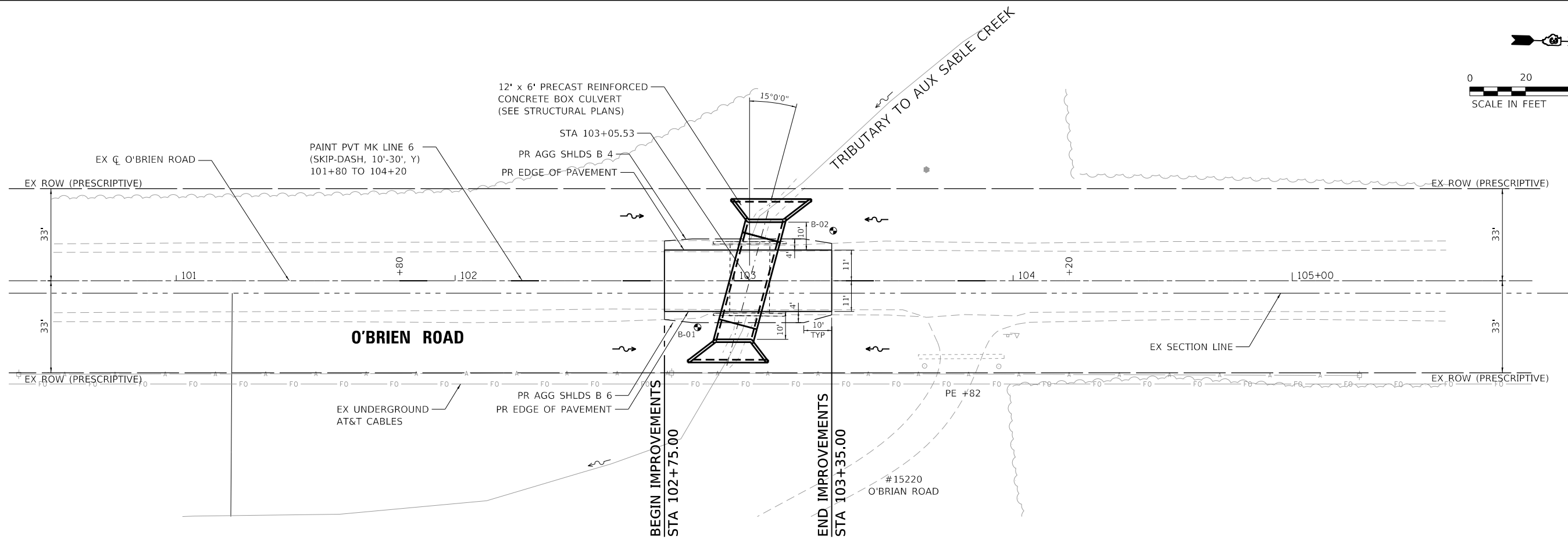
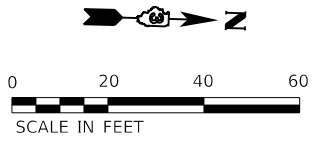
SCALE: 1"=10'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	FILED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
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EX. EL.	576.65	576.83	577.18	577.56	577.80	577.39	576.93	576.76	576.73	576.81
	101+00	101+50	102+00	102+50	103+00	103+50	104+00	104+50	105+00	105+50

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**SEWARD TOWNSHIP  
 ROAD DISTRICT**






**PLAN AND PROFILE  
 O'BRIEN ROAD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	7
CONTRACT NO.				

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

ILLINOIS FED. AID PROJECT



- ①  R11-2-4830
- ②  R11-4-6030
- ③  R11-2-4830
- ④  W20-3-4848
- ⑤  W20-3-4848

**NOTES:**

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, SEWARD TOWNSHIP ROAD DISTRICT, AND THE KENDALL COUNTY HIGHWAY DEPARTMENT IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO CLOSING O'BRIEN ROAD. THESE PARTIES SHALL ADDITIONALLY BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO RE-OPENING THE ROADWAY TO NORMAL TRAFFIC.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.
3. AT THE POINT OF CLOSURE, SUFFICIENT TYPE III BARRICADES SHALL BE SUPPLIED SUCH THAT BARRICADES FULLY BLOCK SHOULDERS AND THE ROADWAY WITHOUT GAPS BETWEEN BARRICADES. PER IDOT STANDARD DRAWING 701901-08.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE POSITIVE DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH ARTICLE 202.05 OF THE STANDARD SPECIFICATIONS.

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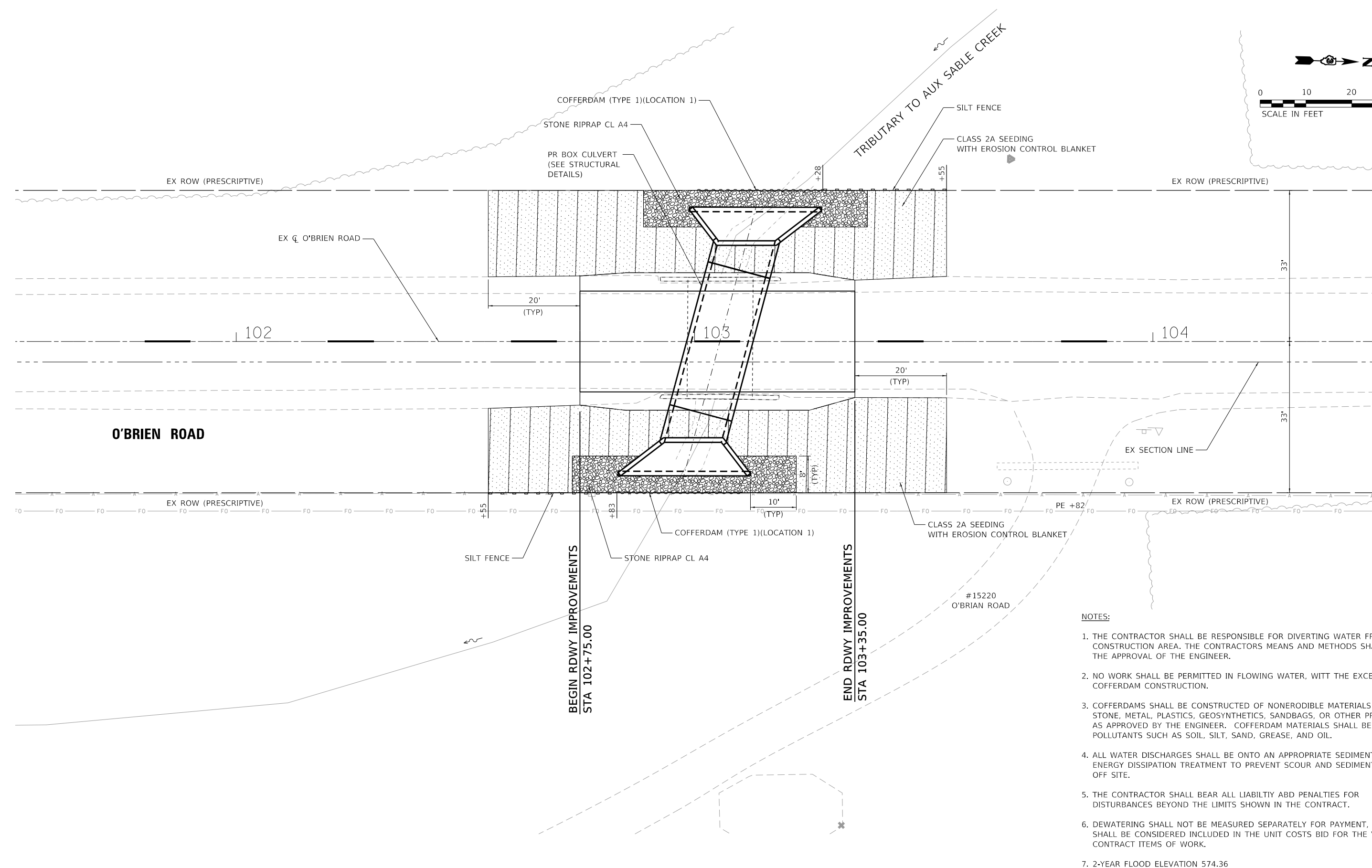
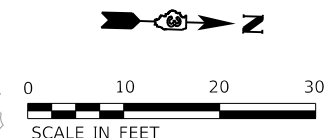
**SEWARD TOWNSHIP  
ROAD DISTRICT**

**DETOUR PLAN  
O'BRIEN ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





- NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING WATER FROM THE CONSTRUCTION AREA. THE CONTRACTORS MEANS AND METHODS SHALL MEET THE APPROVAL OF THE ENGINEER.
  2. NO WORK SHALL BE PERMITTED IN FLOWING WATER, WITT THE EXCEPTION OF COFFERDAM CONSTRUCTION.
  3. COFFERDAMS SHALL BE CONSTRUCTED OF NONERODIBLE MATERIALS SUCH AS STONE, METAL, PLASTICS, GEOSYNTHETICS, SANDBAGS, OR OTHER PRODUCTS AS APPROVED BY THE ENGINEER. COFFERDAM MATERIALS SHALL BE FREE OF POLLUTANTS SUCH AS SOIL, SILT, SAND, GREASE, AND OIL.
  4. ALL WATER DISCHARGES SHALL BE ONTO AN APPROPRIATE SEDIMENT BAG OR ENERGY DISSIPATION TREATMENT TO PREVENT SCOUR AND SEDIMENTATION OFF SITE.
  5. THE CONTRACTOR SHALL BEAR ALL LIABILTIY ABD PENALTIES FOR DISTURBANCES BEYOND THE LIMITS SHOWN IN THE CONTRACT.
  6. DEWATERING SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT COSTS BID FOR THE VARIOUS CONTRACT ITEMS OF WORK.
  7. 2-YEAR FLOOD ELEVATION 574.36

HRG PROJECT NO: 200914.01  
 HRG PROJ CONTACT:  
 FILE NAME: 200914-01.sht-arcs0.dgn  
 PEN TABLE: p10tbl.tbl



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DRAWN - AJM	REVISIED -	
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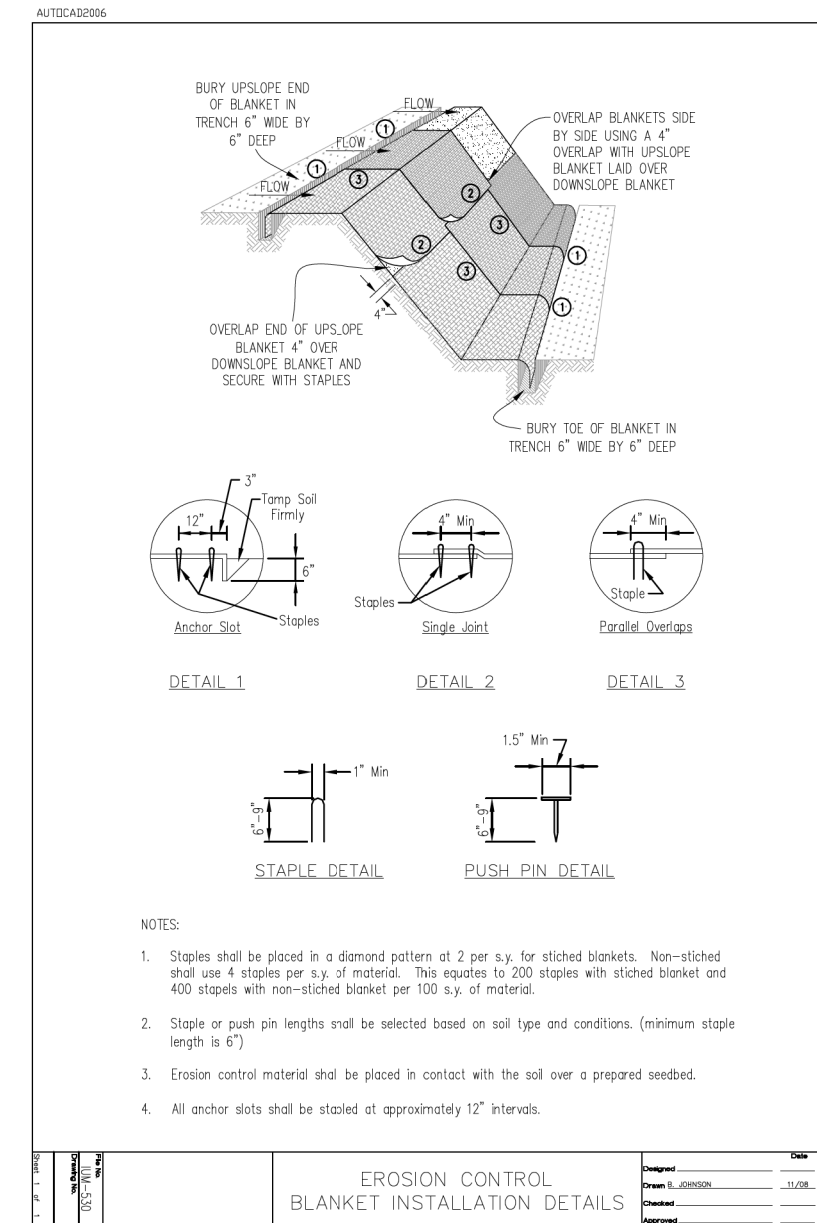
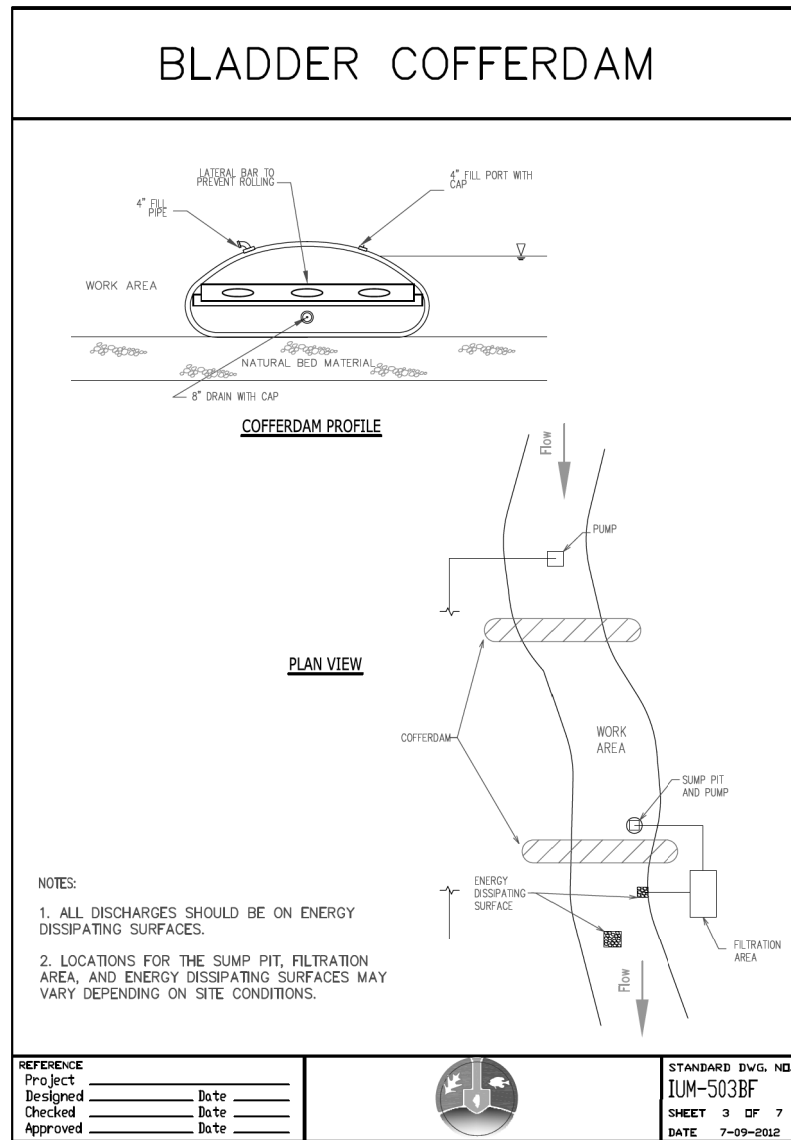
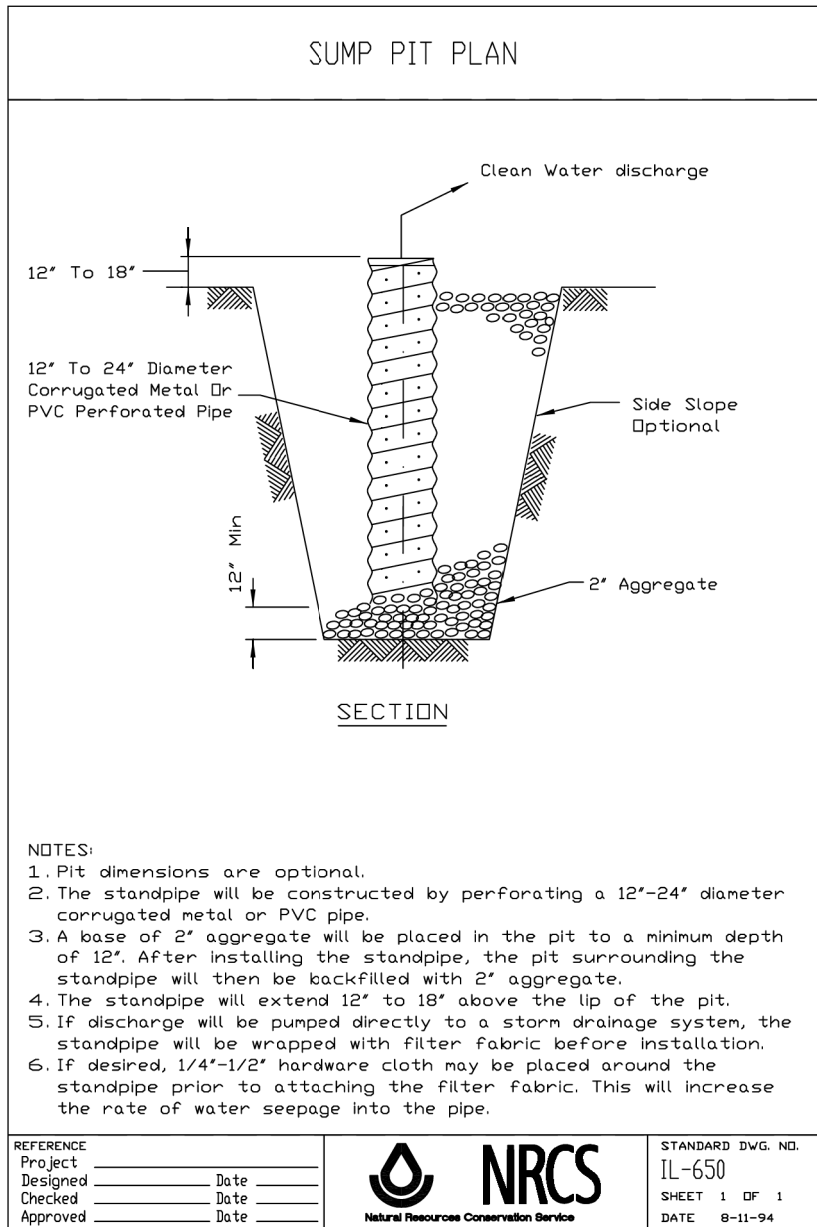
**SEWARD TOWNSHIP  
ROAD DISTRICT**

**SOIL EROSION AND SEDIMENT CONTROL PLAN  
O'BRIEN ROAD**

SCALE: 1"=10'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	9
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

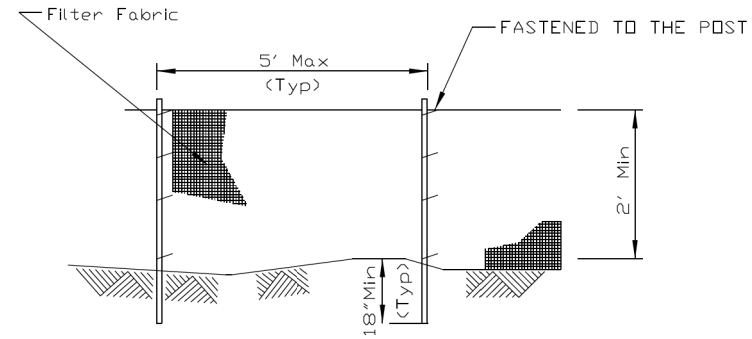


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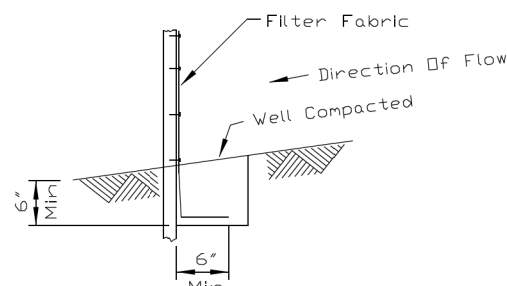
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PLOT DATE = 3/11/2022	DATE - 03/04/2023	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SILT FENCE PLAN



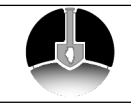
ELEVATION



FABRIC ANCHOR DETAIL

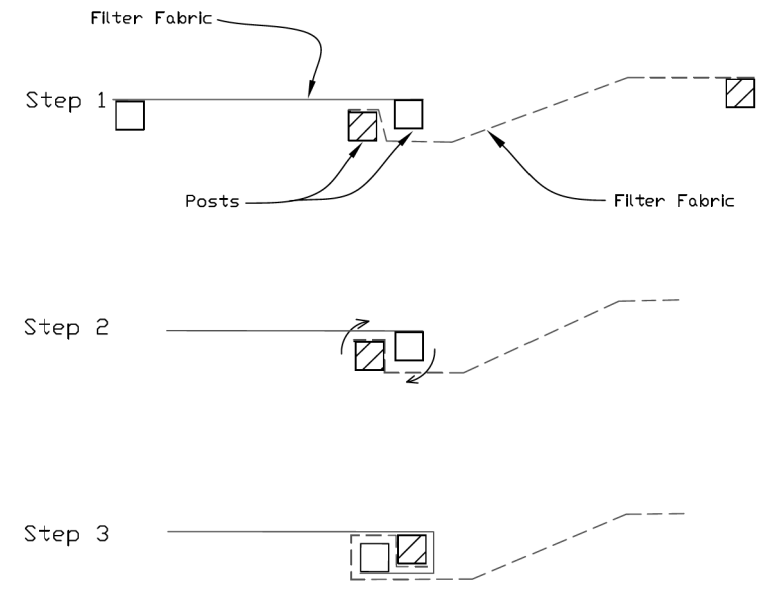
- NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
  3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE	
Project	_____ Date _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.  
IUM-620A  
SHEET 1 OF 2  
DATE 04-15-2021

SILT FENCE - SPLICING TWO FENCES



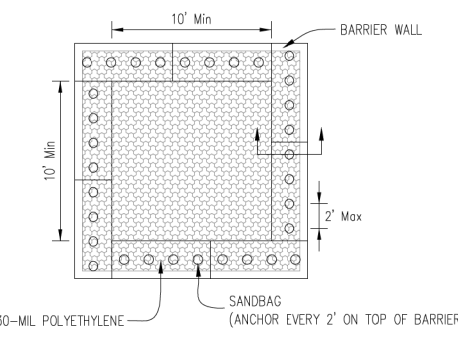
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE	
Project	_____ Date _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

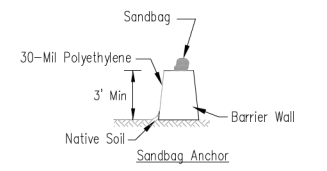


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IUM-620B(W)  
SHEET 1 OF 1  
DATE 3-16-2012

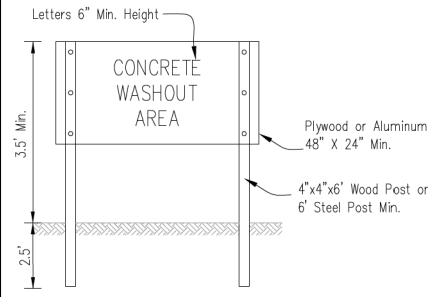
AUTOCAD2006



PLAN VIEW



BARRIER WALL ANCHOR SECTION



SIGN DETAIL

- NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
  2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Project	_____ Date _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

Designed	_____ Date _____
Drawn	E. JOHNSON _____ 6/08
Checked	_____ Date _____
Approved	_____ Date _____

HRG PROJECT NO.: 200914/01  
 HRG PROJ. CONTACT:  
 FILE NAME: 200914-01.sht - erc03.dgn  
 PLOT DATE: 3/11/2022  
 PEN TABLE: AutoCAD.ctb



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	DRAWN - AJM	REVISED -
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PLOT DATE = 3/11/2022	DATE - 03/04/2024	REVISED -

SEWARD TOWNSHIP  
ROAD DISTRICT

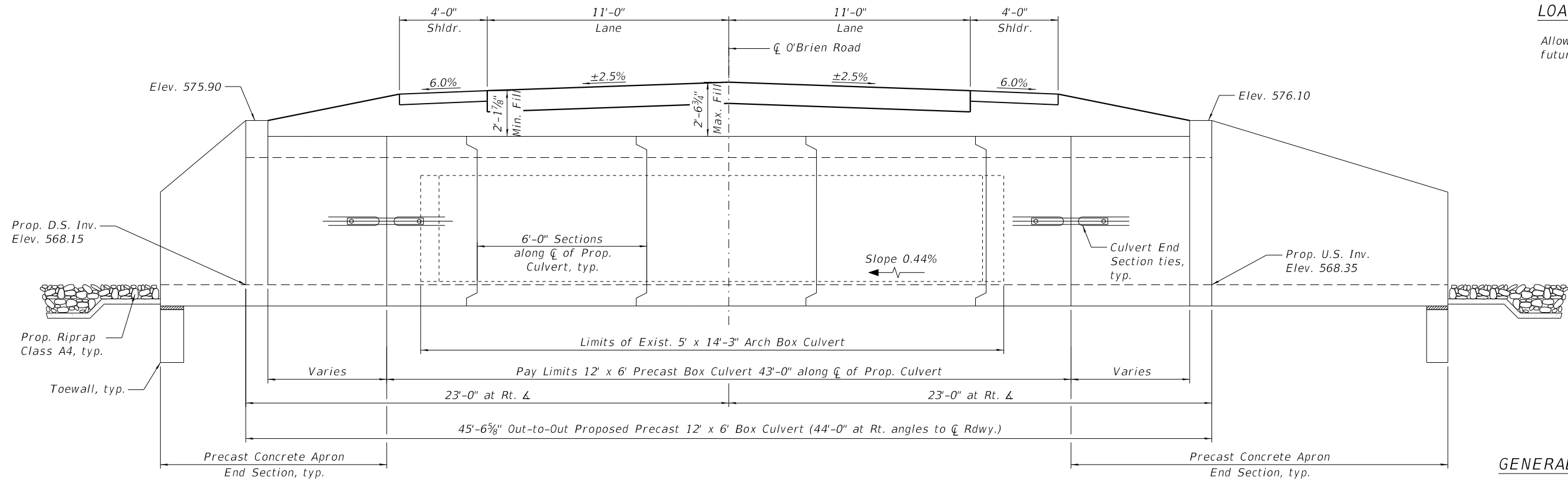
SOIL EROSION AND SEDIMENT CONTROL DETAILS  
O'BRIAN ROAD

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**LOADING HL-93**

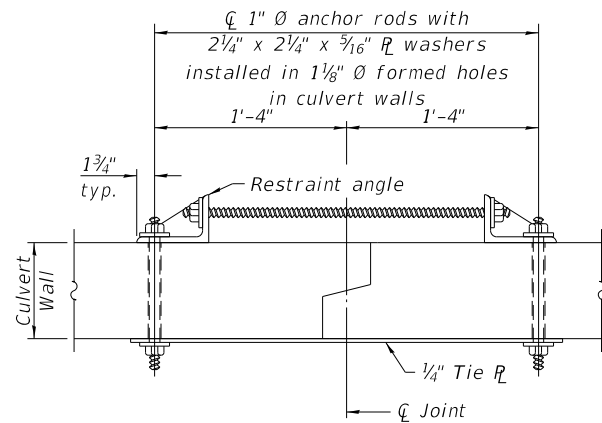
Allow 50 lb/sq ft for future wearing surface



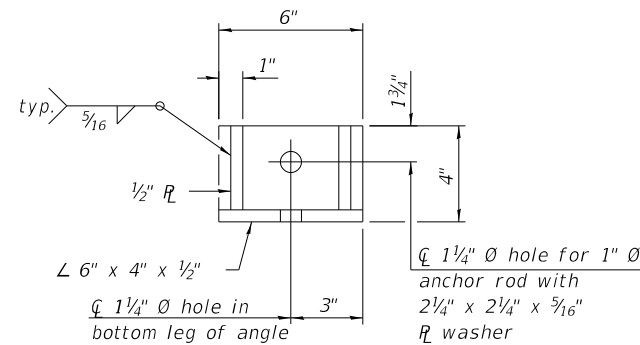
**ELEVATION**

**GENERAL NOTES**

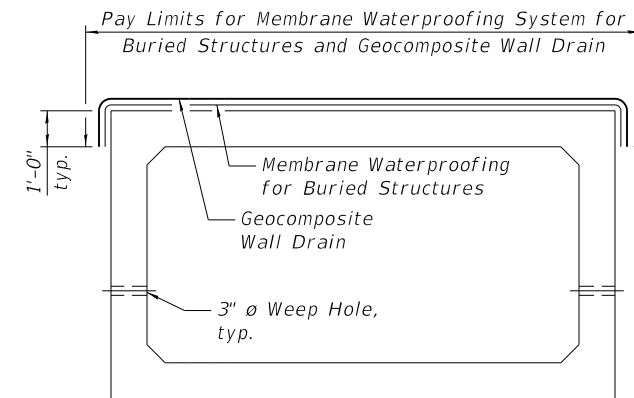
The design fill height for this box is 2.60 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



**SECTION F-F**  
(Showing culvert tie details)  
Not to Scale

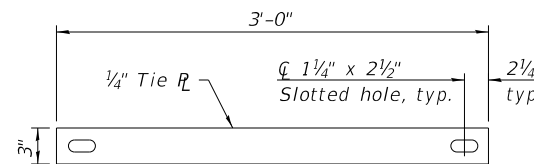


**RESTRAINT ANGLE DETAIL**  
Not to Scale



Note: Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures

**PRECAST CONCRETE BOX CULVERT**



**TIE PLATE DETAIL**  
Not to Scale

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft. All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

**WATERWAY INFORMATION**

Drainage Area = 1.36 sq. mi.		Low Grade Elev. = @ Sta.							
Flood	Freq. Yr.	Q C.F.S.	Opening Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	113	N/A	60.0	575.40	0.1	0.1	575.40	575.50
Design	50	167	N/A	60.0	575.90	0.1	0.2	576.00	576.10
Base	100	191	N/A	60.0	576.10	0.2	0.2	576.30	576.30
Overtopping		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Calc.	500	248	N/A	60.0	576.40	0.3	0.3	576.70	630.40

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	330
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	152
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	26
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 12' x 6'	Foot	43
Geocomposite Wall Drain	Sq. Yd.	75
Membrane Waterproofing for Buried Structures	Sq. Yd.	75
Rock Fill	Cu. Yd.	26

HRG PROJECT NO.: 200904.01  
HRG PROJ. CONTACT:  
FILE NAME: 200904.01.str\_culvert-0610.dgn  
PLOT DRIVER: IL\_Pdf.dwg, p1.ctb  
PEN TABLE: plotlabel.tbl



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CHECKED - SLS  
DRAWN - WJH  
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PLOT DATE = 3/11/2022

DESIGNED - SLS  
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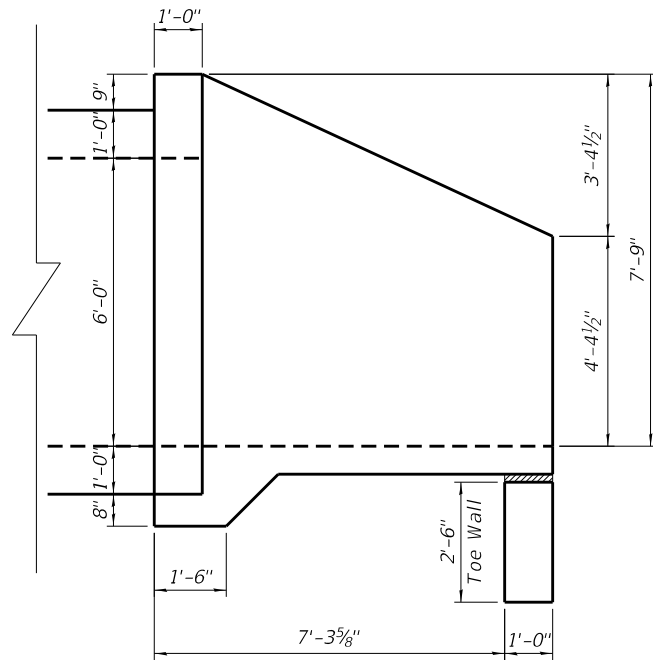
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REVISED -  
REVISED -  
REVISED -

**SEWARD TOWNSHIP ROAD DISTRICT**

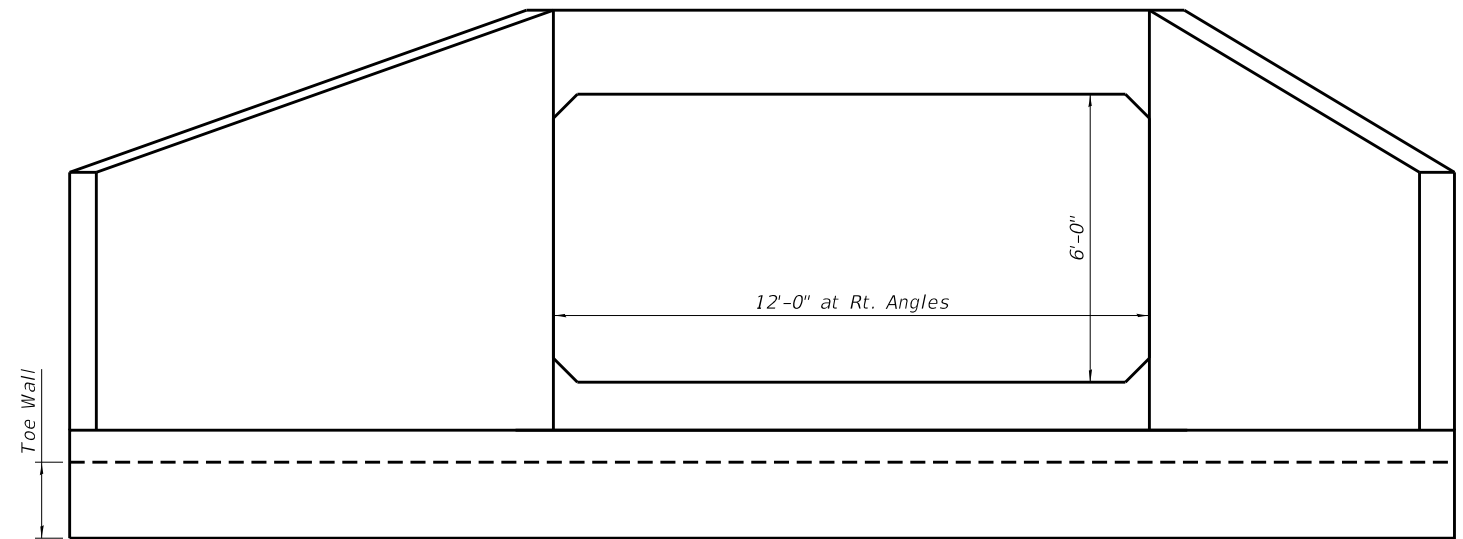
**PRECAST CULVERT DETAILS O'BRIEN ROAD**

SHEET NO. 1 OF 1 SHEETS

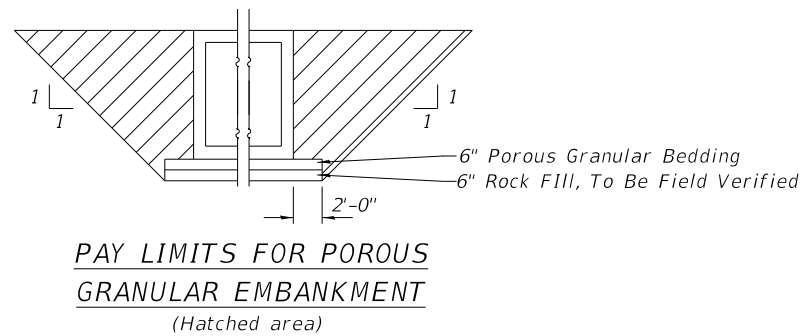
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	21-09124-00-DR	KENDALL	17	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



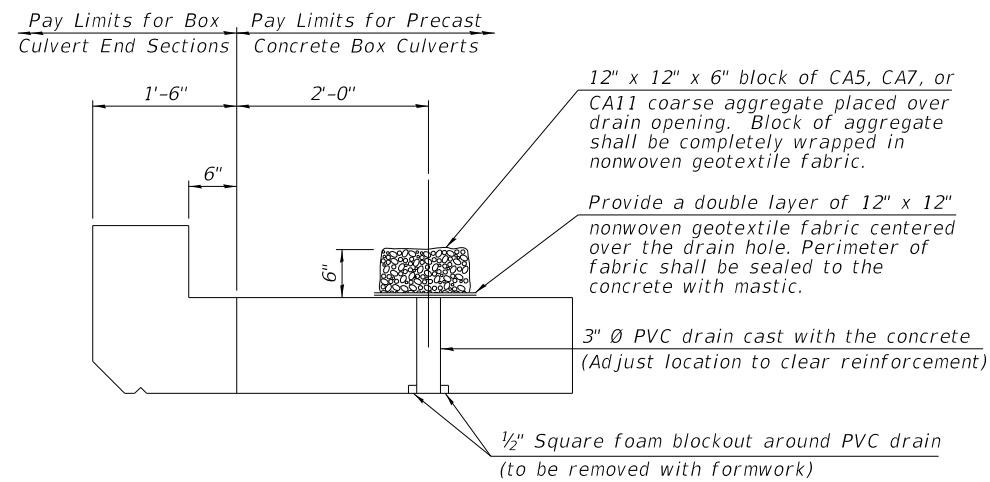
HALF SIDE ELEVATION



END ELEVATION

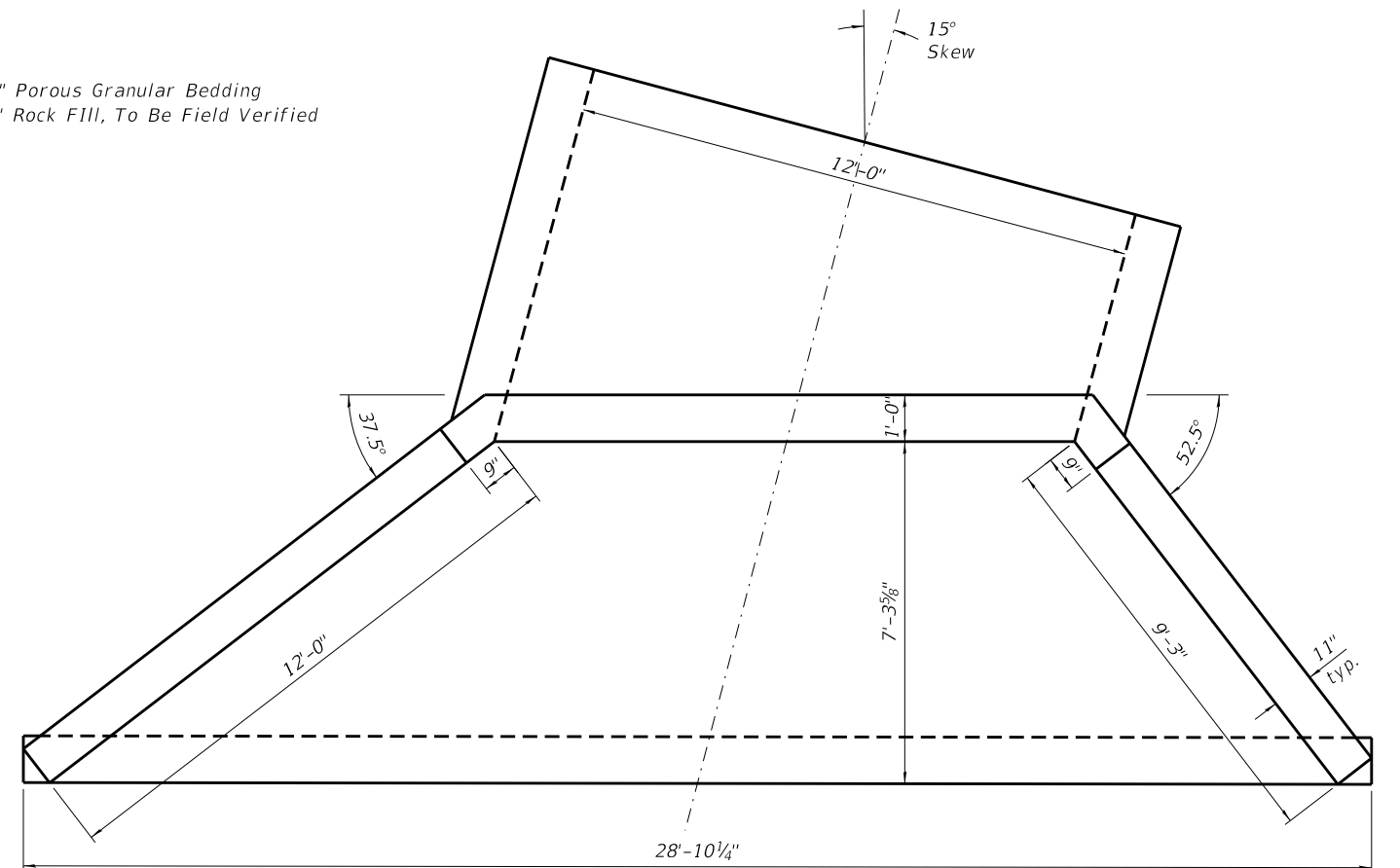


PAY LIMITS FOR POROUS GRANULAR EMBANKMENT (Hatched area)



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



PLAN

HRG PROJECT NO.: 200914.01  
 HRG PROJ. CONTACT:  
 FILE NAME: 200914.01\_sfr\_culvert-06102.dgn  
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PLOT DATE = 3/11/2022	DRAWN - WJH	REVISED -
	CHECKED - AEU	REVISED -

SEWARD TOWNSHIP ROAD DISTRICT

APRON END SECTION DETAILS  
 O'BRIEN ROAD

SHEET NO. 2 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	13
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

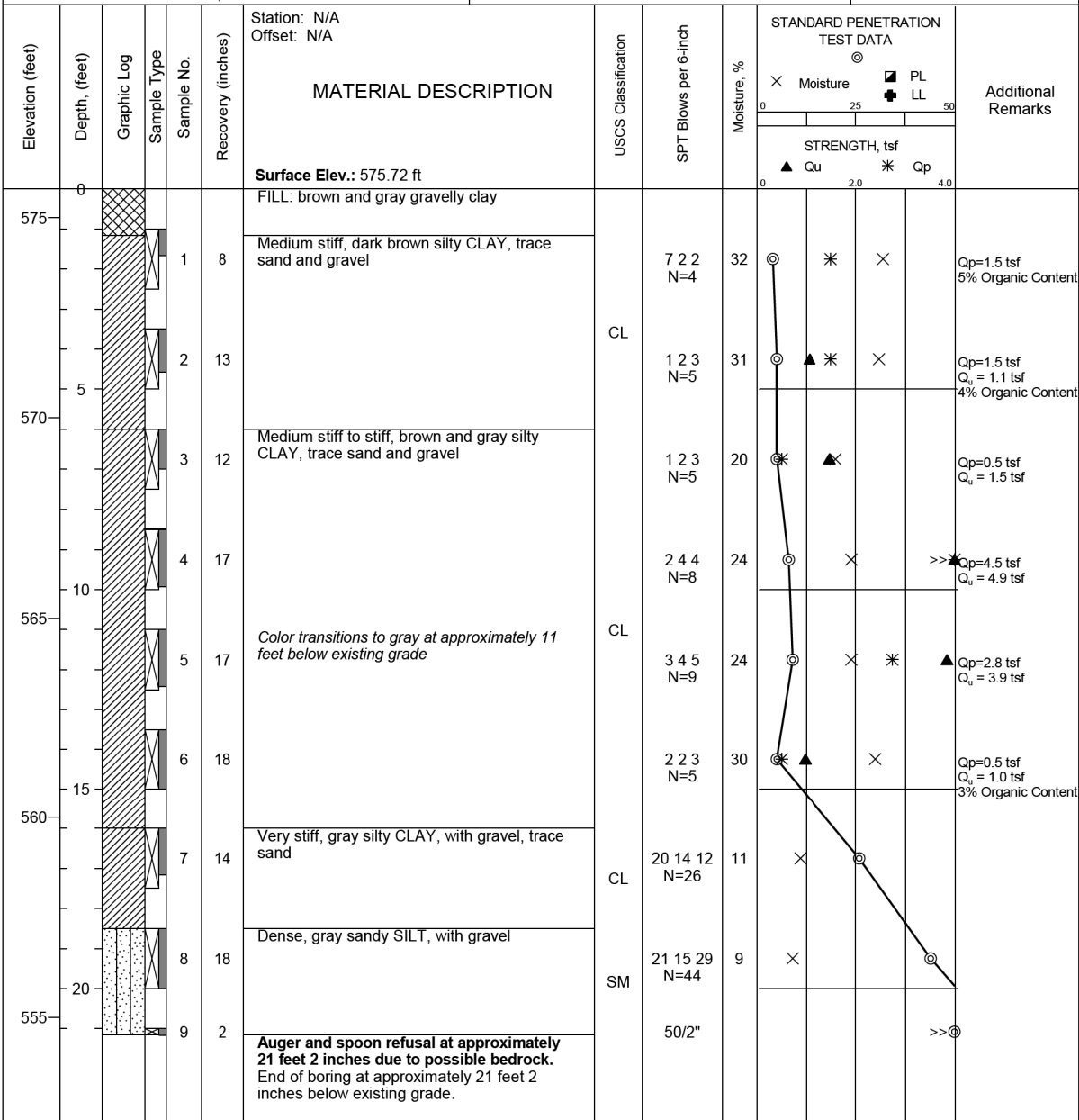


Rubino Engineering, Inc.  
425 Shepard Drive  
Elgin, IL 60123  
Telephone: 847-931-1555  
Fax: 847-931-1560

### LOG OF BORING B-01

Sheet 1 of 1

Rubino Job No.: G22.045	Drilling Method: 3 1/4 Hollow Stem Auger	WATER LEVELS***	
Project: O'Brien Road Culvert Improvements	Sampling Method: Split Spoon	While Drilling	N/A
Location: O'Brien Road	Hammer Type: Automatic	Upon Completion	N/A
City, State: Seward Township, Illinois	Boring Location: NB ROW of O'Brien Road	Delay	N/A
Client: HR Green, Inc.	29 ft S from center of culvert		



Completion Depth: 21.2 ft	Date Boring Started: 3/3/22	Date Boring Completed: 3/3/22	Logged By: H.G.	Drilling Contractor: Rubino Engineering, Inc.	Sample Types: Auger Cutting, Split-Spoon, Rock Core	Pressuremeter, Shelby Tube, Hand Auger, No Recovery	Latitude: 41.5026477 Longitude: -88.3308221 Drill Rig: Geoprobe 7822DT Remarks:
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The stratification lines represent approximate boundaries. The transition may be gradual.  
\*\*\*Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

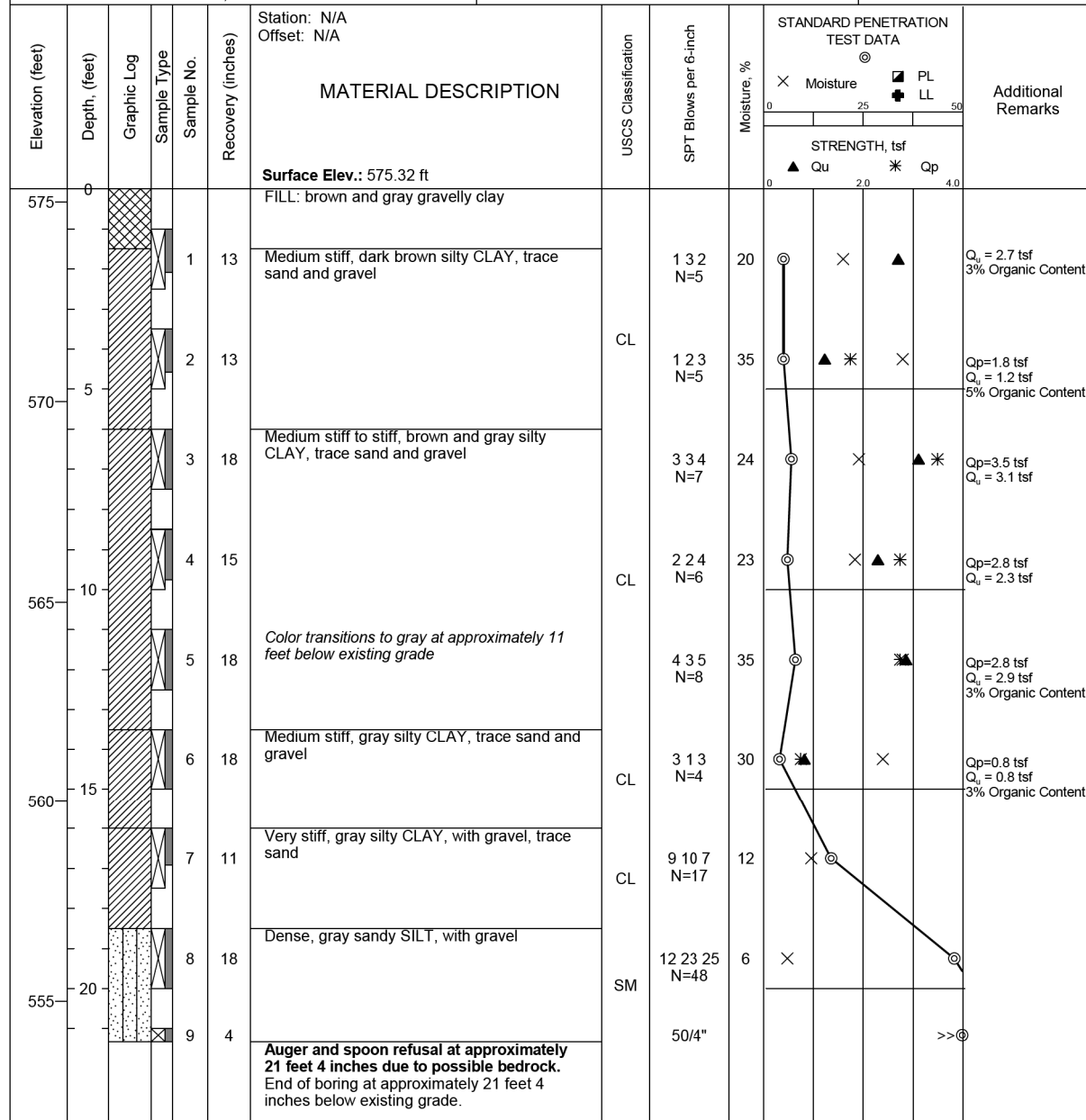


Rubino Engineering, Inc.  
425 Shepard Drive  
Elgin, IL 60123  
Telephone: 847-931-1555  
Fax: 847-931-1560

### LOG OF BORING B-02

Sheet 1 of 1

Rubino Job No.: G22.045	Drilling Method: 3 1/4 Hollow Stem Auger	WATER LEVELS***	
Project: O'Brien Road Culvert Improvements	Sampling Method: Split Spoon	While Drilling	N/A
Location: O'Brien Road	Hammer Type: Automatic	Upon Completion	N/A
City, State: Seward Township, Illinois	Boring Location: SB ROW of O'Brien Road	Delay	N/A
Client: HR Green, Inc.	24 ft N from center of culvert		



Completion Depth: 21.3 ft	Date Boring Started: 3/3/22	Date Boring Completed: 3/3/22	Logged By: H.G.	Drilling Contractor: Rubino Engineering, Inc.	Sample Types: Auger Cutting, Split-Spoon, Rock Core	Pressuremeter, Shelby Tube, Hand Auger, No Recovery	Latitude: 41.5027785 Longitude: -88.3309535 Drill Rig: Geoprobe 7822DT Remarks:
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The stratification lines represent approximate boundaries. The transition may be gradual.  
\*\*\*Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

HRG PROJECT NO.: 200904.01  
HRG PROJ. CONTACT:  
FILE NAME: 200904-01\_str\_b02.dgn  
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PLOT DATE: 3/11/2022	DRAWN: W/JH	REVISIONS:
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### SEWARD TOWNSHIP ROAD DISTRICT

### SOIL BORING LOGS O'BRIEN ROAD

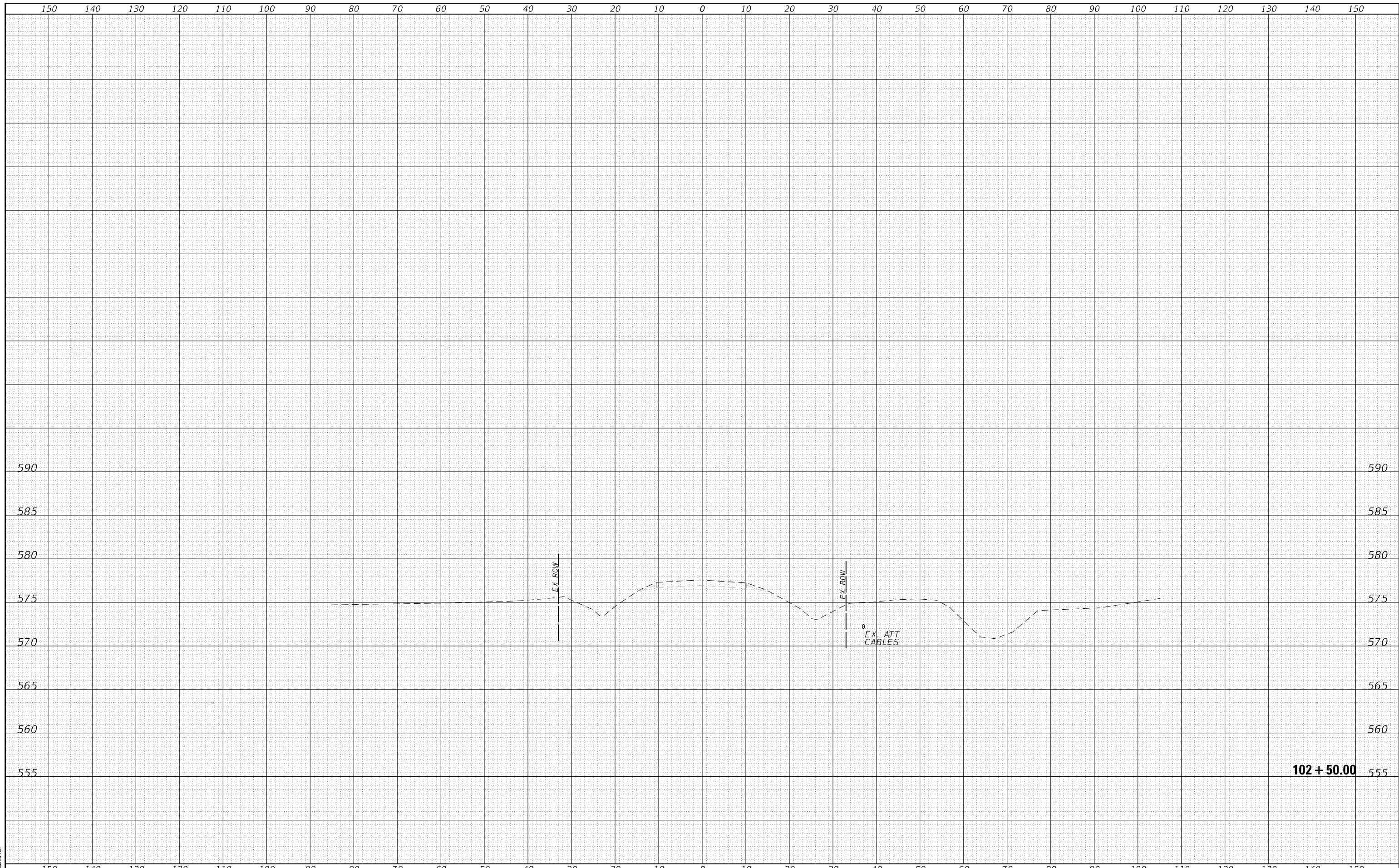
SHEET NO. 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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

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

HRC PROJECT No: 20094.01  
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 PEN TABLE: plottabtbl



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USER NAME	= amiller	DESIGNED	- MIW	REVISED	-
		DRAWN	- AJM	REVISED	-
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**SEWARD TOWNSHIP  
ROAD DISTRICT**

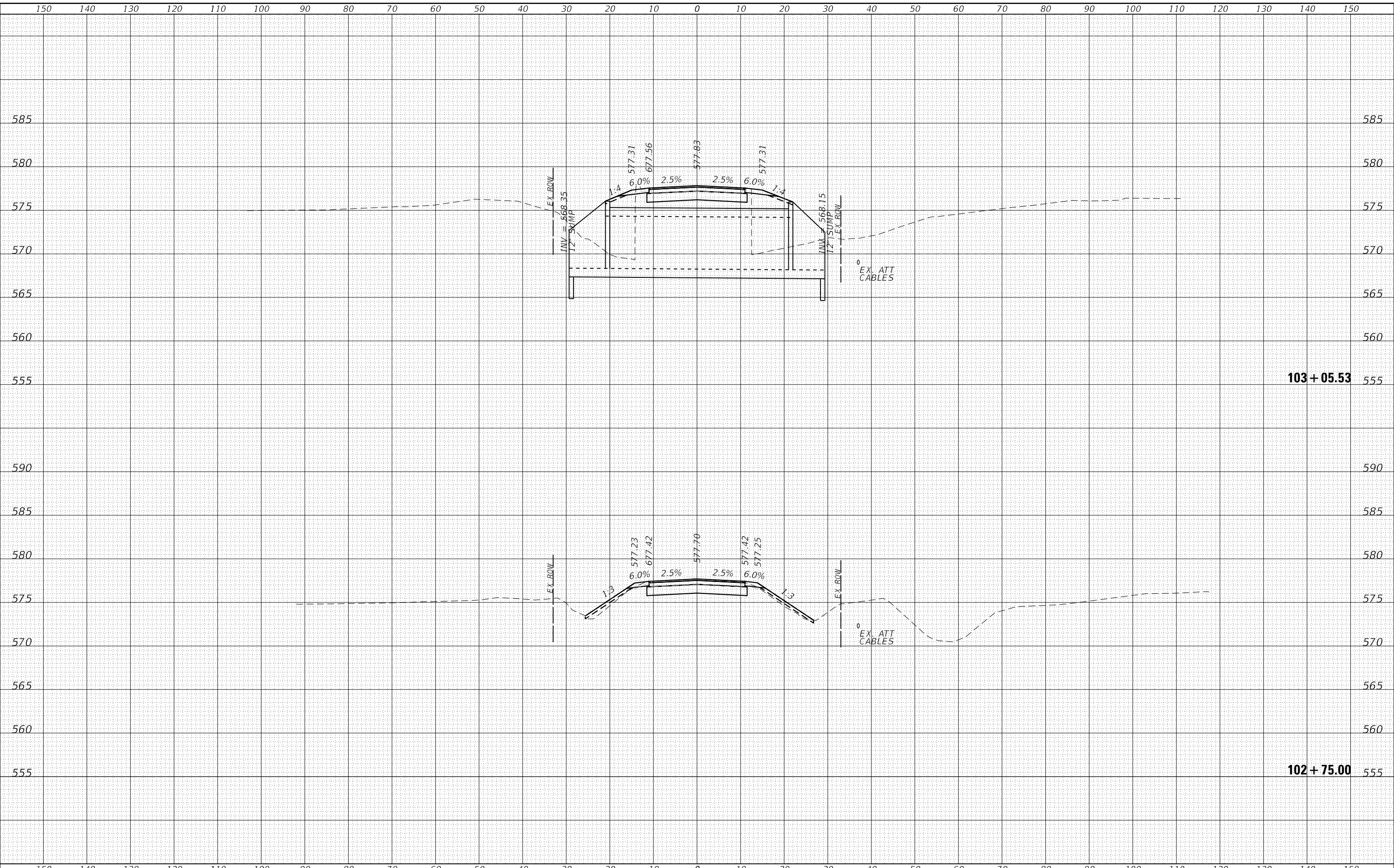
<b>CROSS SECTIONS O'BRIEN ROAD</b>	
SCALE: 10' H : 5' V	SHEET 1 OF 1 SHEETS
STA. 102+50.00 TO STA. 102+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-09124-00-DR	KENDALL	17	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
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AREAS	
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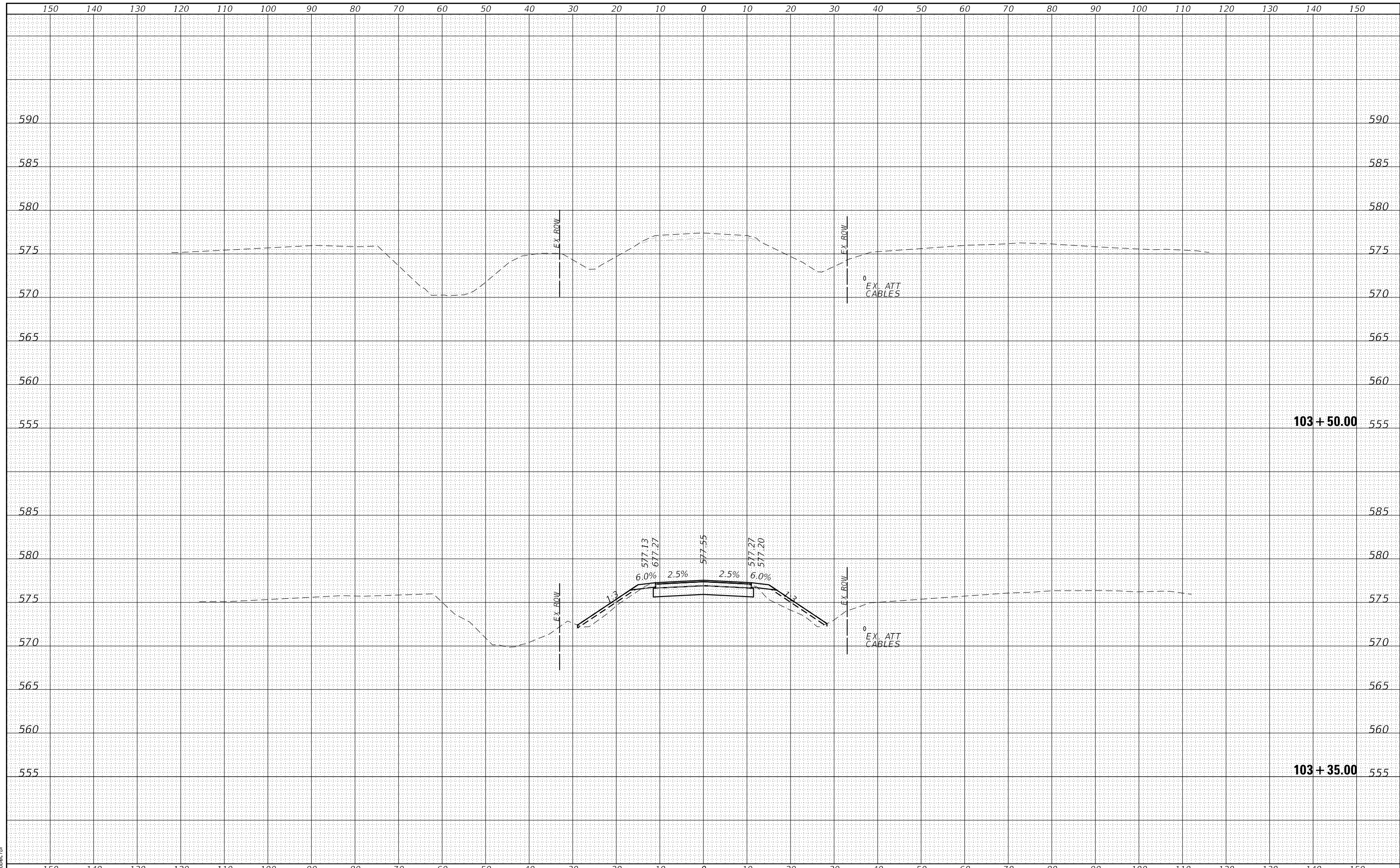
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PLOT DATE = 3/11/2022	DATE - 03/04/2023	REVISED -																													
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																											
	21-09124-00-DR	KENDALL	17	16																											
CONTRACT NO.																															
SCALE: 10' H : 5' V SHEET OF SHEETS STA. 102+75.00 TO STA. 103+05.53				ILLINOIS FED. AID PROJECT																											



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

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

HRG PROJECT No: 20094.d  
 FILE NAME: 20094.d  
 PLOT DRIVER: lcrf\_bwp1rcfg  
 PEN TABLE: plp10tbl.tbl



HRG PROJECT No: 20094.d FILE NAME: 20094.d PLOT DRIVER: lcrf_bwp1rcfg PEN TABLE: plp10tbl.tbl		HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = amiller DESIGNED - MIJW DRAWN - AJM CHECKED - MIJW DATE - 03/04/2024 PLOT SCALE = 20.0000' / in. PLOT DATE = 3/11/2022	DESIGNED - MIJW DRAWN - AJM CHECKED - MIJW DATE - 03/04/2024 REVISED - REVISED - REVISED - REVISED -	<b>SEWARD TOWNSHIP ROAD DISTRICT</b>	<b>CROSS SECTIONS O'BRIEN ROAD</b>	SCALE: 10' H : 5' V SHEET OF SHEETS STA. 103+35.00 TO STA. 103+50.00	F.A. RTE. SECTION COUNTY CONTRACT NO.	TOTAL SHEETS SHEET NO.
								21-09124-00-DR KENDALL ILLINOIS FED. AID PROJECT	17 17