LETTING: APRIL 26, 2024 - ITEM 04A

TOTAL SHEETS: 57
VE058

CONSTRUCTION PLANS FOR

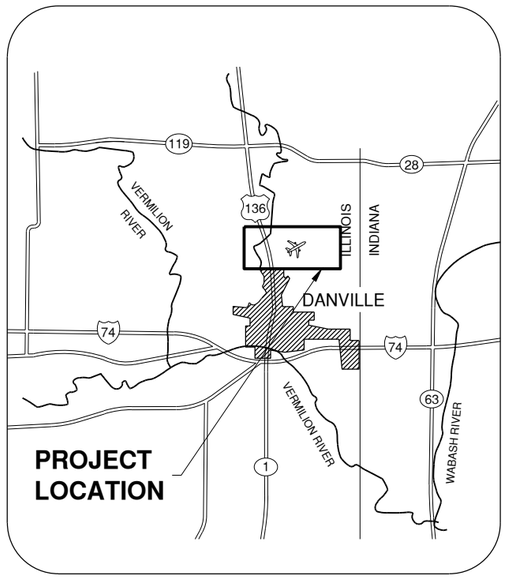
VERMILION REGIONAL AIRPORT AUTHORITY

VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS

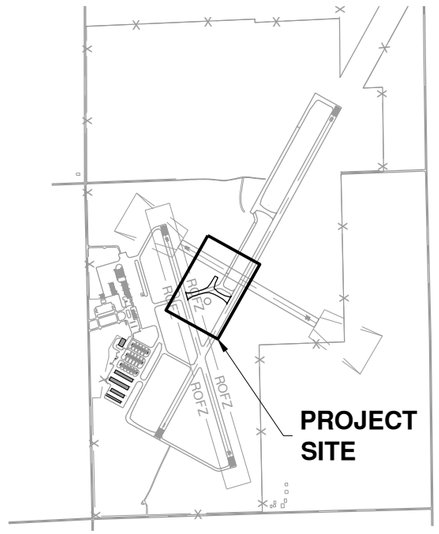
IL. PROJ. NO. DNV-5110
FED PROJ. NO. 3-17-SBGP-TBD

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

MARCH 1, 2024



LOCATION MAP



SITE PLAN

811 Know what's below. Call before you dig.

COMMON GROUND ALLIANCE
www.call811.com or
Phone: 811

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL 911 IN THE EVENT IN WHICH DAMAGE RESULTS IN THE RELEASE OF NATURAL GAS.

CALL J.U.L.I.E.
BEFORE EXCAVATING
1-800-892-0123

TOWNSHIP: 20 NORTH
RANGE: 11 WEST
SECTION: 15
COUNTY: VERMILION
CIVIL TOWNSHIP: NEWELL

COMMON TRAFFIC ADVISORY FREQUENCY 122.7

APPROXIMATE MAXIMUM HEIGHT OF EQUIPMENT ABOVE GROUND IS 25 FT.

APPROVED
DATE 2/6/24

ERIC HILLS
062.070576
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
EXP. 11/30/25

CMT

License No. 184-000613

SUBMITTED BY Eric Hills
DATE FEBRUARY 5TH, 2024

CMT JOB NUMBER: 190042-02-20

K:\Danville4p\190042-02_Rehab1sym\Drw\Sheets\Phase 2 Sheets
FILE: 19004202-PH2-GI001.dwg
UPDATE BY: Dave Allen
PLOT DATE: 3/1/2024 8:58 PM

BASE BID SUMMARY OF QUANTITIES			
ITEM	ITEM DESCRIPTION	UNIT	QUANT.
AR106910	REMOVE LIGHT FIXTURE	EACH	1
AR108108	1/C #8 5 KV UG CABLE	FOOT	370
AR108158	1/C #8 5 KV UG CABLE IN UD	FOOT	4800
AR108208	2/C #8 5 KV UG CABLE	FOOT	30
AR108258	2/C #8 5 KV UG CABLE IN UD	FOOT	1500
AR108706	1/C #6 COUNTERPOISE	FOOT	2350
AR108960	REMOVE CABLE	FOOT	2710
AR110102	DUCT MARKER - IN PAVEMENT	EACH	7
AR110501	1-WAY CONCRETE ENCASED DUCT	FOOT	20
AR110504	4-WAY CONCRETE ENCASED DUCT	FOOT	195
AR125100	ELEVATED RETROREFLECTIVE MARKER	EACH	3
AR125410	MITL - STAKE MOUNTED	EACH	11
AR125415	MITL - BASE MOUNTED	EACH	17
AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	EACH	2
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	2
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	EACH	4
AR125525	HIRL, IN PAVEMENT	EACH	1
AR125565	SPLICE CAN	EACH	1
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	7
AR125906	REMOVE SPLICE CAN	EACH	1
AR125913	REMOVE EDGE LIGHT	EACH	32
AR150520	MOBILIZATION	L SUM	1
AR152410	UNCLASSIFIED EXCAVATION	CU YD	5095
AR152490	CRUSHED AGGREGATE BACKFILL	CU YD	355
AR152515	SUBGRADE UNDERCUT	CU YD	355
AR156510	SILT FENCE	FOOT	310
AR156513	SEPARATION FABRIC	SQ YD	710
AR156515	STRAW WATTLE	FOOT	420
AR156520	INLET PROTECTION	EACH	6
AR209607	CRUSHED AGGREGATE BASE COURSE - 7"	SQ YD	3620
AR401610	BITUMINOUS SURFACE COURSE	TON	709
AR401650	BITUMINOUS PAVEMENT MILLING	SQ YD	2493
AR401921	REMOVE PAVEMENT	SQ YD	4050
AR403610	BITUMINOUS BASE COURSE	TON	1516
AR403630	BITUMINOUS BASE TEST SECTION	EACH	1
AR603510	BITUMINOUS TACK COAT	GALLON	800
AR620520	PAVEMENT MARKING - WATERBORNE	SQ FT	4600
AR620525	PAVEMENT MARKING - BLACK BORDER	SQ FT	3250
AR620900	PAVEMENT MARKING REMOVAL	SQ FT	630
AR701524	24" RCP, CLASS IV	FOOT	205
AR701530	30" RCP, CLASS IV	FOOT	733
AR701900	REMOVE PIPE	FOOT	935
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	FOOT	1475
AR705544	4" NON-PERFORATED UNDERDRAIN	FOOT	308
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EACH	4
AR705640	UNDERDRAIN CLEANOUT	EACH	7
AR705904	REMOVE UNDERDRAIN CLEANOUT	EACH	1
AR751411	INLET - TYPE A	EACH	5
AR751900	REMOVE INLET	EACH	4
AR800202	COVER LIGHT FIXTURE	EACH	16
AR901510	SEEDING	ACRE	7.7
AR904510	SODDING	SQ YD	720
AR908514	LIGHT-DUTY HYDRAULIC MULCH	ACRE	7.7

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CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-TBD
IL. PROJ. NO. DNV-5110
CMT PROJECT NO: 190042-02-20
CAD DWG FILE: 19004202-PH2-GI002.DWG
DESIGNED BY: EMH
DRAWN BY: CMT
CHECKED BY: MJD
APPROVED BY: EMH

SHEET TITLE

INDEX TO SHEETS

GI002

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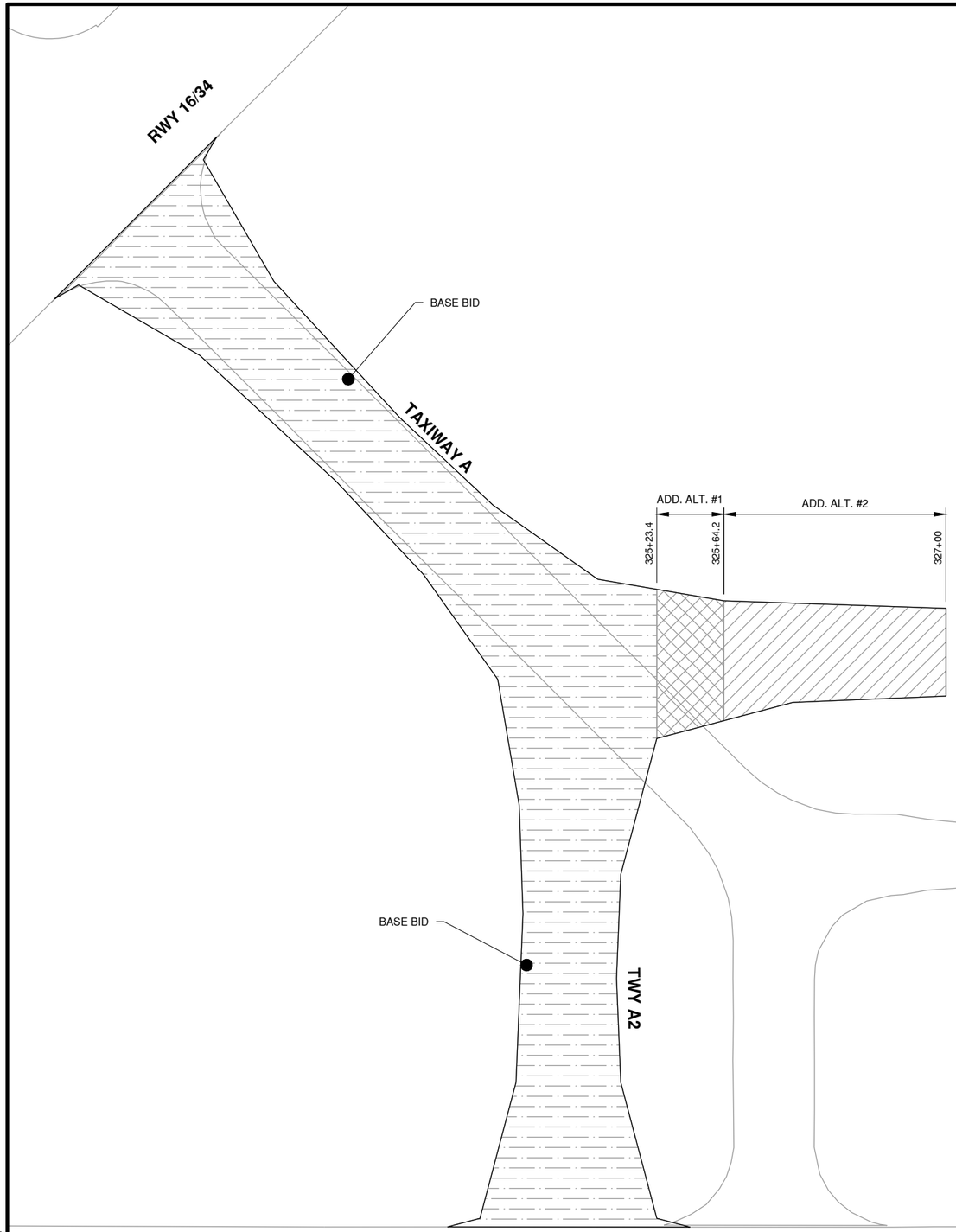

ADDITIVE ALTERNATE #1: SUMMARY OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	QUANT.
AS152410	UNCLASSIFIED EXCAVATION	CU YD	315
AS152490	CRUSHED AGGREGATE BACKFILL	CU YD	38
AS152515	SUBGRADE UNDERCUT	CU YD	38
AS156513	SEPARATION FABRIC	SQ YD	75
AS209607	CRUSHED AGGREGATE BASE COURSE - 7"	SQ YD	381
AS401610	BITUMINOUS SURFACE COURSE	TON	44
AS403610	BITUMINOUS BASE COURSE	TON	110
AS603510	BITUMINOUS TACK COAT	GALLON	58
AS705524	4" PERFORATED UNDERDRAIN W/SOCK	FOOT	91
AS904510	SODDING	SQ YD	44

ADDITIVE ALTERNATE #2: SUMMARY OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	QUANT.
AT152410	UNCLASSIFIED EXCAVATION	CU YD	1085
AT152490	CRUSHED AGGREGATE BACKFILL	CU YD	93
AT152515	SUBGRADE UNDERCUT	CU YD	93
AT156513	SEPARATION FABRIC	SQ YD	185
AT209607	CRUSHED AGGREGATE BASE COURSE - 7"	SQ YD	942
AT401610	BITUMINOUS SURFACE COURSE	TON	108
AT403610	BITUMINOUS BASE COURSE	TON	271
AT603510	BITUMINOUS TACK COAT	GALLON	143
AT705524	4" PERFORATED UNDERDRAIN W/SOCK	FOOT	263
AT904510	SODDING	SQ YD	156

NOTES

1. SEE PREVIOUS SHEET FOR BASE BID SUMMARY OF QUANTITIES
2. THE WORK SHOWN ON THE PLANS REPRESENTS THE BASE BID AND ALL ADDITIVE ALTERNATES. LIMITS SHOWN ABOVE REPRESENT THE LIMITS OF WORK AS DETERMINED BY ESTIMATED FUNDING AVAILABLE.
3. AWARDABLE ALTERNATES WILL BE DETERMINED BASED ON THE FUNDING AVAILABLE.
4. SHOULD ANY ALTERNATES BE AWARDED, THEY WILL BE AWARDED IN CONSECUTIVE NUMERICAL ORDER.
5. WORK SHOWN WITHIN THE BASE BASE BID AND ADDITIVE ALTERNATE LIMITS SHALL BE PERFORMED ONLY IF SAID WORK IS WITHIN THE LIMITS OF THE PROJECT AS AWARDED. PAVEMENT MARKINGS ARE AN EXCEPTION; REGARDLESS OF THE AWARDED PROJECT, THE BASE BID QUANTITY FOR PAVEMENT MARKING INCLUDES RE-MARKING OF THE FULL-LENGTH RUNWAY TO EACH RUNWAY END.

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OWNER
VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CAD DWG FILE:	19004202-PH2-GI002.DWG
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CHECKED BY:	MJD
APPROVED BY:	EMH
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SHEET TITLE
SUMMARY OF QUANTITIES

GI003
SHEET 3 OF 57

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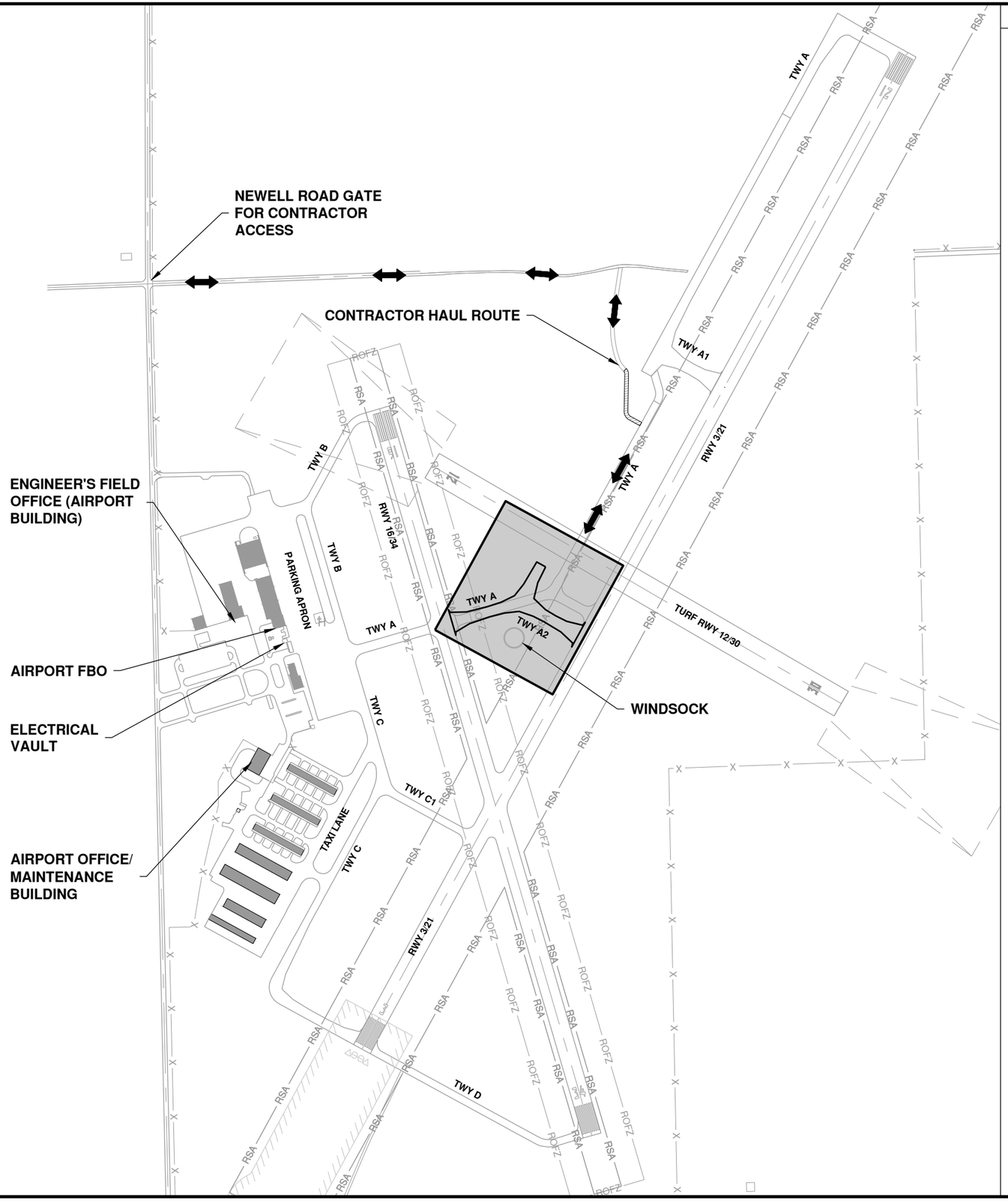

NOTES

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
2. ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL OF FLAGMAN MONITORING RADIO TRANSMISSIONS ON **UNICOM FREQUENCY 122.7 MHz**. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS AND ONLY HIS PERSONNEL WHO ARE FAMILIAR WITH AIRCRAFT OPERATIONS.
3. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT MANAGER.
4. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION.
5. ANY MISCELLANEOUS REMOVALS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY, BUT THE AIRPORT SHALL HAVE THE OPTION FOR THE USE OF THE BITUMINOUS MILLINGS GENERATED FROM THE WORK COMPLETED ON THIS PROJECT. OWNERSHIP OF THE MILLINGS WILL BE DECIDED BEFORE MILLING OPERATIONS BEGIN AND LOCATION FOR ON-SITE STOCKPILING IS DETERMINED IF AIRPORT RETAINS OWNERSHIP.
6. ALL PAVEMENTS, DRIVES, OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
7. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN CONSTRUCTION AREAS WHICH WILL BE OPENED TO AIR TRAFFIC.
8. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES WITHIN THE PROJECT SITE SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
9. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
   - A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN.
   - B. THE CONTRACTOR SHALL COORDINATE ACCESS TO THE AIRFIELD WITH THE AIRPORT.
   - C. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL TRAFFIC CONTROL SIGNAGE REQUIRED BY THE COUNTY,TOWNSHIP, OR I.D.O.T.
   - D. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
   - E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING AND AFTER WORK HOURS.
   - F. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   - G. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY SAFETY AREAS AND OBJECT FREE AREAS.
   - H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.

LEGEND

- PROPOSED PROJECT AREA
- CONTRACTOR ACCESS

CTAF FREQUENCY - 122.70

CMT
License No. 184-000613
CONSULTANTS

N

0 300' 600'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-GI101.DWG
DESIGNED BY:	EMH
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CHECKED BY:	MJD
APPROVED BY:	EMH
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SHEET TITLE

AIRPORT SITE PLAN

GI101

SHEET 4 OF 57

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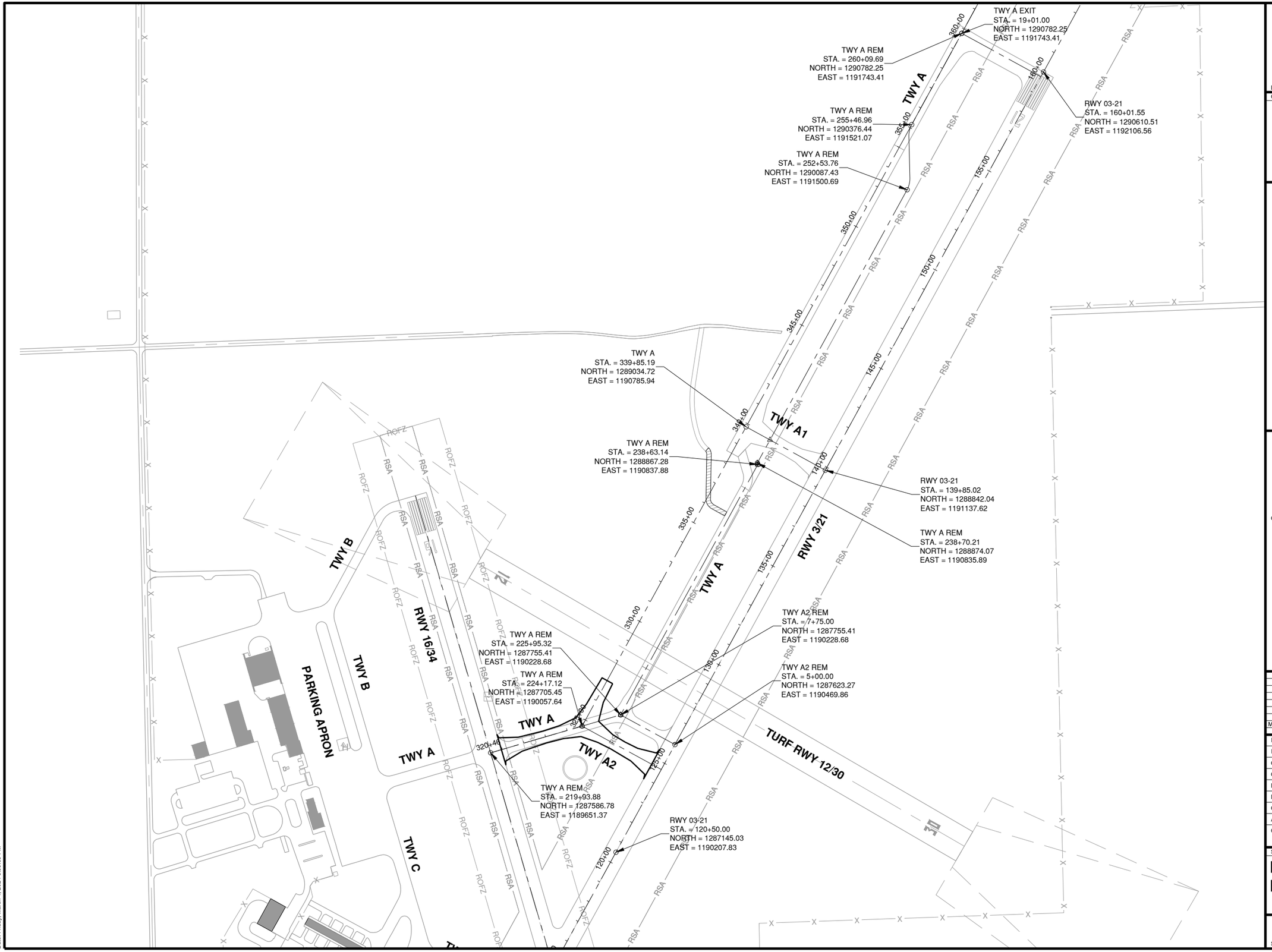

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N

0 200' 400'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

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DANVILLE, ILLINOIS

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SHEET TITLE

PROJECT CONTROL PLAN

GI102

SHEET 5 OF 57

Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-GI101.dwg
Date: Friday, March 1, 2024 8:59:05 PM

0. GENERAL

1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2 (LATEST VERSION), AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2 (LATEST VERSION). NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD.
3. THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.
4. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
5. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SIGN THE SWPPP CERTIFICATION STATEMENT.
6. ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.

1. COORDINATION

1. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT, ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
2. ON OR BEFORE THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
3. DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE AIRPORT STAFF AND RESIDENT ENGINEER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.

2. PHASING

1. PHASING SHALL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.

3. CONSTRUCTION ACTIVITY AREAS

1. ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS ALLOWED IN THE PLANS.
2. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT.
3. ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

4. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

1. THE CONTRACTOR SHALL REMAIN CLEAR OF THE ILS CRITICAL AREAS AND OTHER NAVAID FACILITIES AT ALL TIMES.

5. CONTRACTOR ACCESS

1. CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN IN THE PLANS. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR IS TO ACCESS THE SITE USING THE GATES SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING AND AFTER WORK HOURS OR THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED AIRPORT MANAGEMENT OR THE RESIDENT ENGINEER.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T. THE CONTRACTOR SHALL ENTER A ROAD USE AGREEMENT WITH THE ROAD DISTRICT OF VERMILION COUNTY, ILLINOIS.
4. CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE MARKED AND FLAGGED PER THE PLAN DETAILS AND SPECIFICATIONS. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT WILL BE 25'.

5. CONTRACTOR ACCESS (CONTINUED)

5. DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES (AGGREGATE, CONCRETE, ETC.) SHALL BE UNDER THE CONTROL OF AND SUPERVISED BY THE CONTRACTOR.
6. CONTRACTOR WORK CREWS MUST MAINTAIN RADIO CONTACT WITH AIR TRAFFIC AT ALL TIMES WHEN WITHIN THE PERIMETER FENCE AND MOVEMENT AREA. THE CONTRACTOR SHALL SUPPLY ALL APPROPRIATE RADIOS NEEDED FOR COMMUNICATIONS AND ONLY HIS PERSONNEL WHO HAVE SUCCESSFULLY PASSED THE APPROVED AIRPORT TESTS MAY OPERATE THESE RADIOS.
7. ALL CONSTRUCTION TRAFFIC OPERATING ON, OR CROSSING RUNWAYS, TAXIWAYS AND APRONS OPEN TO AIRCRAFT TRAFFIC SHALL BE UNDER CONTROL BY A FLAGMAN OR ESCORT IN RADIO CONTACT WITH AIR TRAFFIC. THE CONTRACTOR SHALL PROVIDE HIS/HER OWN FLAGMEN.
8. ALL CONSTRUCTION PERSONNEL AND VEHICLES SHALL BE RESTRICTED TO THE WORK AREA THROUGH THE USE OF FLAGGING AND BARRICADING, ERECTING TEMPORARY FENCING, OR PROVIDING ESCORTS AS SHOWN IN PLANS OR OTHERWISE DESIGNATED BY THE RESIDENT ENGINEER.
9. THE CONTRACTOR'S STORAGE AND STAGING AREAS WILL BE AS SHOWN IN THE PLANS.
10. THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR.
11. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT OBSTRUCT ANY RUNWAY VISUAL AIDS, SIGNS OR NAVIGATIONAL AIDS OR PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
12. WHEN NOT IN USE, THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE RETURNED TO & STORED AT THE STAGING AREA OR IN THE LOCATION SHOWN ON THE PLANS OR IN AN AREA OUTSIDE THE RUNWAY SAFETY AREAS (RSA's), RUNWAY OBJECT FREE ZONES (ROFZ's), AND OBJECT FREE AREA (OFA's). THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL NOT BE PARKED ON A CLOSED TAXIWAY OR RUNWAY.
13. THE STAGING SHALL BE USED FOR PARKING BY THE CONTRACTOR'S EMPLOYEES UNLESS OTHERWISE DESIGNATED BY AIRPORT OPERATIONS OR THE RESIDENT ENGINEER. USE OF PERSONAL VEHICLES BEYOND THE STAGING AREA WILL NOT BE ALLOWED
14. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
15. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH ARE OR WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF THE AIRPORT. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
16. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
17. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR.

6. WILDLIFE MANAGEMENT

1. THE CONTRACTOR SHALL NOTIFY THE AIRPORT IF ANY WILDLIFE IS SEEN ON OR ENTERING THE AIRPORT.
2. CONTRACTOR ACCESS GATES SHALL REMAIN CLOSED AND SECURED WHEN THE CONTRACTOR IS NOT WORKING.
3. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.
4. THE CONTRACTOR SHALL CONTROL GRASS HEIGHTS THROUGH MOWING TO ASSIST WITH WILDLIFE CONTROL.

7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

1. THE CONTRACTOR SHALL PICK UP ANY FOREIGN OBJECT DEBRIS (FOD) SEEN ON THE AIRFIELD PAVEMENTS.
2. THE CONTRACTOR SHALL SECURE ALL LOOSE ITEMS FROM VEHICLES PRIOR TO DRIVING ON AIRFIELD PAVEMENTS.

8. HAZARDOUS MATERIALS (HAZMAT) MGMT

1. THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT PLAN AND KEEP COPIES ON THE JOBSITE OF MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS HANDLED ON THE JOBSITE.

9. NOTIFICATIONS OF CONSTRUCTION ACTIVITIES

1. THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
2. THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO THE AIRPORT PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT.
3. FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 25', THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT THE TYPE OF EQUIPMENT, TOTAL HEIGHT, AND LOCATION WHERE THE EQUIPMENT WILL BE USED. THE AIRPORT WILL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 25' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.
4. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911.

10. INSPECTION REQUIREMENTS

1. THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX C OF FAA AC 150/5370-2 (LATEST VERSION) MAY BE USED TO AID IN THE INSPECTIONS.
2. THE CONTRACTOR SHALL REQUEST AND ATTEND AN INSPECTION OF EACH PHASE WORK AREA PRIOR THE AREA BEING REOPENED. THE AIRPORT WILL DETERMINE IF THE WORK AREA IS SUITABLE TO BE OPENED.

11. UNDERGROUND UTILITIES

1. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
2. BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL J.U.L.I.E. THE AIRPORT, AND CONTACT THE LOCAL FAA OFFICE (847-294-7336) TO ARRANGE FOR UTILITY LOCATES.

12. PENALTIES

1. NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP, THE CONTRACTOR'S APPROVED SPCD OR THE SECURITY PLAN MAY RESULT IN FINES AS ALLOWED BY LAW.
2. FINES CAN BE LEVIED AGAINST THE CONTRACTOR FOR NEGLIGENCE IF THE AIRPORT SECURITY IS COMPROMISED AND THE AIRPORT PERIMETER FENCE LINE IS NOT MAINTAINED AS SPECIFIED ABOVE. FINES CAN ALSO BE LEVIED AGAINST THE CONTRACTOR FOR FAILURE TO COOPERATE WITH THE AIRPORT MANAGEMENT AS REQUIRED TO MAINTAIN AIRPORT SECURITY.

13. SPECIAL CONDITIONS

1. ADJACENT CONSTRUCTION MAY IMPACT THE OPERATIONS OF THE CONTRACTOR. SEE THE COORDINATION NOTES FOR ADDITIONAL INFORMATION.

14. RUNWAY AND TAXIWAY VISUAL AIDS

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE PLANS.
2. IF ANY RUNWAY OR TAXIWAY CLOSURES ARE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE AIRPORT, THE CONTRACTOR SHALL USE MARKING, LIGHTING AND SIGNS THAT FOLLOWING THE REQUIREMENTS OF THE PLANS & FAA AC 150/5370-2 (LATEST VERSION.)
3. IMMEDIATELY UPON THE INITIATION OF EACH PROJECT PHASE/WORK AREA, THE CONTRACTOR SHALL DE-ENERGIZE OR COVER LIGHTS FOR ALL CLOSED RUNWAYS AND TAXIWAYS DURING PAVEMENT CLOSURES. TEMPORARILY COVER OR DE-ENERGIZE AIRFIELD SIGNAGE AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS. ALL COSTS ASSOCIATED WITH THIS SHALL BE INCIDENTAL TO THE CONTRACT.

15. MARKING AND SIGNS FOR ACCESS ROUTES

1. BARRICADES AND SIGNS SHALL BE USED ALONG THE CONTRACTOR'S ACCESS ROUTE AS DETAILED IN THE PLANS.

16. HAZARD MARKING AND LIGHTING

1. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
2. ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G AND 150/5210-5D (OR LATEST) AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM EQUIPMENT HEIGHT IS 25'.
3. BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE AIRPORT.
4. THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS AND FLAG PLACEMENT.

17. NIGHTTIME WORK ZONE LIGHTING

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING DURING NIGHTTIME CONSTRUCTION.
2. ARTIFICIAL AREA LIGHTING SHALL CONSIST OF VEHICLE OR POLE MOUNTED FLOODLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL ONLY BE ALLOWED IN ADDITION TO THE AREA LIGHTING.
3. ARTIFICIAL AREA LIGHTING SHALL NOT RESTRICT OR VISUALLY INTERFERE WITH AIR TRAFFIC.
4. PLACEMENT & AIMING OF ARTIFICIAL LIGHTING SHALL BE APPROVED BY THE AIRPORT PRIOR TO START OF OPERATIONS.

18. PROTECTION OF AREAS & SURFACES

1. MINIMUM DISTANCES SHALL BE MAINTAINED BETWEEN CONSTRUCTION OPERATIONS AND THE CENTERLINE OF ALL ACTIVE TAXIWAYS, TAXILANES AND CENTERLINE OF ACTIVE RUNWAYS. IT IS INTENDED TO PLAN, CONDUCT, AND COMPLETE THE WORK IN THESE CRITICAL TRAFFIC AREAS IN SUCH A MANNER THAT THE LENGTH AND AMOUNT OF INTERRUPTION TO AIRCRAFT TRAFFIC AT THE AIRPORT IS MINIMIZED. THE MINIMUM DISTANCES TO BE MAINTAINED SHALL BE AS SPECIFIED IN THE CONSTRUCTION ACTIVITY AND SAFETY PLAN.
2. ALL WORK REQUIRED INSIDE OF THE RUNWAY 3/21 OR 16/34 SAFETY AREAS, WHICH EXTENDS 250' AND 75' RESPECTIVELY FROM THE RUNWAY CENTERLINE, WILL REQUIRE THE RUNWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.
3. ALL WORK REQUIRED ON AN ACTIVE TAXIWAY OR INSIDE OF AN ACTIVE TAXIWAY OBJECT FREE AREA, WHICH EXTENDS 93' FROM THE TAXIWAY CENTERLINE, WILL REQUIRE THE TAXIWAY TO BE CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT A MINIMUM OF 72 HOURS PRIOR TO THE REQUESTED CLOSURE TIME.
4. THE CONTRACTOR SHALL COMPLY WITH FEDERAL AVIATION REGULATIONS PART 107 (AIRPORT SECURITY), FEDERAL AIR REGULATION PART139 (AIRPORT CERTIFICATION), AND WITH ALL RULES AND REGULATIONS OF THE AIRPORT, INCLUDING, BUT NOT LIMITED TO, CONTROL AND ACCESS TO THE AIRFIELD BY CONTRACTOR'S, EMPLOYEES AND AGENTS, IN THE EVENT THE OWNER IS ASSESSED A FINE BY THE FEDERAL AVIATION ADMINISTRATION FOR BREACH OF SECURITY RESULTING FROM ACTIONS OF CONTRACTOR'S EMPLOYEES AND AGENTS, THE CONTRACTOR SHALL FULLY REIMBURSE THE AUTHORITY FOR THE AMOUNT OF SUCH FINE IN THE FORM OF ADDITIONAL RENTS.

19. OTHER LIMITATIONS ON CONSTRUCTION

1. IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.
2. BROKEN CONCRETE, BROKEN ASPHALT, RUBBISH FROM DEMO, AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEGGAR TESTING ALL EXISTING CIRCUITS PRIOR TO CONSTRUCTION AND FOLLOWING CONSTRUCTION AS SPECIFIED IN THE SPECIFICATIONS.

(NOTES CONTINUE ON SHEET GC002)

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-GC001.DWG
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CONSTRUCTION ACTIVITY PLAN NOTES 1

GC001

SHEET 6 OF 57

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20. AIRPORT SECURITY REQUIEMENTS

(NOTES CONTINUED FROM SHEET GC001)

1. MAINTAINING THE SECURITY REQUIREMENTS OF THE AIRPORT SHALL BE A PRIMARY CONCERN FOR THE CONTRACTOR.

2. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR. THE SUPERINTENDENT AND FOREMAN SHALL BE DIRECTLY RESPONSIBLE FOR THE IDENTITY AND LOCATION OF THOSE THEY ARE SUPERVISING WHILE ON THE AIRFIELD.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING AIRPORT SECURITY BY SUPERVISING OPENINGS OR MAINTAINING THE AIRPORT PERIMETER FENCE LINE AT ALL TIMES.

4. THE CONTRACTOR SHALL PROVIDE A SIGN AT ALL ACCESS GATES STATING " AUTHORIZED PERSONNEL ONLY." ALL COSTS RELATING TO CONTRACTOR'S ACCESS, GATE GUARDS, FLAGMEN, AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

6. THE AIRPORT WILL BE HOSTING EVENTS THROUGHOUT THE YEAR AND RESERVES THE RIGHT TO SUSPEND CONSTRUCTION ACTIVITY. REFER TO THE CONSTRUCTION ACTIVITY PLANS FOR NOTES REGARDING THIS PLANNED SUSPENSION.

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CONSTRUCTION ACTIVITY PLAN NOTES 2

GC002

SHEET 7 OF 57

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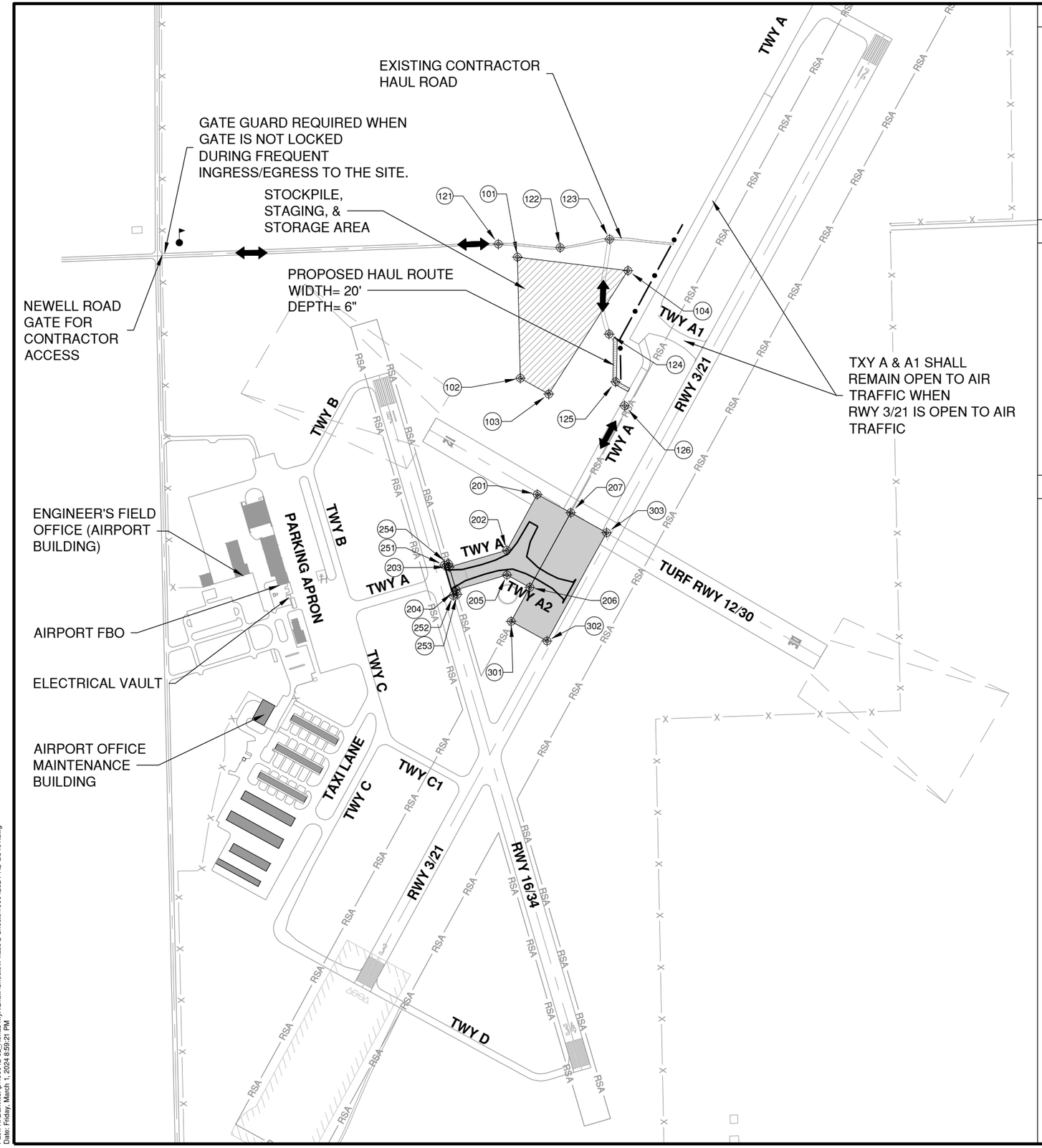

GENERAL PHASING NOTES

1. CONTRACTOR ACCESS FOR ALL WORK AREAS SHALL BE THROUGH EXISTING NEWELL ROAD GATE.
2. WORK AREAS 1A AND 1B MAY BE COMPLETED CONCURRENTLY. WORK AREA 2 SHALL NOT BE COMPLETED CONCURRENTLY WITH ANY OTHER WORK AREAS.
3. PRIOR TO BALLOONS OVER VERMILION CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL BY JULY 4TH, WITH NO WORK OCCURRING UNTIL JULY 15TH. TRAFFIC CONTROL WILL NEED TO BE RE-INSTALLED PRIOR TO COMMENCING WORK AFTER THIS EVENT.

LEGEND

- CONTRACTORS ACCESS ROUTE
- GATE GUARD
- IDOT DRUM BARRICADES
- RSA — RUNWAY SAFETY AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
- X — AIRPORT PERIMETER FENCE

POINTS OF INTEREST

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	EXIST. ELEV.	DESCRIPTION
201	N40° 12' 04.44"	W87° 35' 45.89"	674'	WORK AREA 1A
202	N40° 12' 01.41"	W87° 35' 48.09"	664'	WORK AREA 1A
203	N40° 12' 00.52"	W87° 35' 52.19"	664'	WORK AREA 1A
204	N40° 11' 59.27"	W87° 35' 51.73"	662'	WORK AREA 1A
205	N40° 12' 00.06"	W87° 35' 48.09"	663'	WORK AREA 1A
206	N40° 11' 59.37"	W87° 35' 46.47"	663'	WORK AREA 1A
207	N40° 12' 03.43"	W87° 35' 43.52"	673'	WORK AREA 1A/2
251	N40° 12' 00.62"	W87° 35' 52.54"	665'	WORK AREA 1B
252	N40° 11' 58.97"	W87° 35' 51.93"	663'	WORK AREA 1B
253	N40° 11' 59.03"	W87° 35' 51.64"	662'	WORK AREA 1B
254	N40° 12' 00.69"	W87° 35' 52.25"	671'	WORK AREA 1B
301	N40° 11' 57.52"	W87° 35' 47.82"	669'	WORK AREA 2
302	N40° 11' 56.43"	W87° 35' 45.28"	670'	WORK AREA 2
303	N40° 12' 02.32"	W87° 35' 40.97"	678'	WORK AREA 2

CRITICAL POINT TABLE

POINT	LATITUDE	LONGITUDE	EXIST. ELEV.	DESCRIPTION
101	N40° 12' 17.41"	W87° 35' 47.16"	692'	STAGING AND STORAGE, STOCKPILE AREAS
102	N40° 12' 10.79"	W87° 35' 47.02"	677'	STAGING AND STORAGE, STOCKPILE AREAS
103	N40° 12' 09.92"	W87° 35' 45.01"	676'	STAGING AND STORAGE, STOCKPILE AREAS
104	N40° 12' 16.62"	W87° 35' 39.30"	0'	STAGING AND STORAGE, STOCKPILE AREAS
121	N40° 12' 18.12"	W87° 35' 48.51"	696'	ACCESS ROAD
122	N40° 12' 17.91"	W87° 35' 44.11"	692'	ACCESS ROAD
123	N40° 12' 18.34"	W87° 35' 40.58"	689'	ACCESS ROAD
124	N40° 12' 13.16"	W87° 35' 40.68"	688'	ACCESS ROAD
125	N40° 12' 10.55"	W87° 35' 40.25"	679'	ACCESS ROAD
126	N40° 12' 09.25"	W87° 35' 39.62"	678'	ACCESS ROAD

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0 300' 600'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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CONSTRUCTION ACTIVITY PLAN OVERVIEW

GC101

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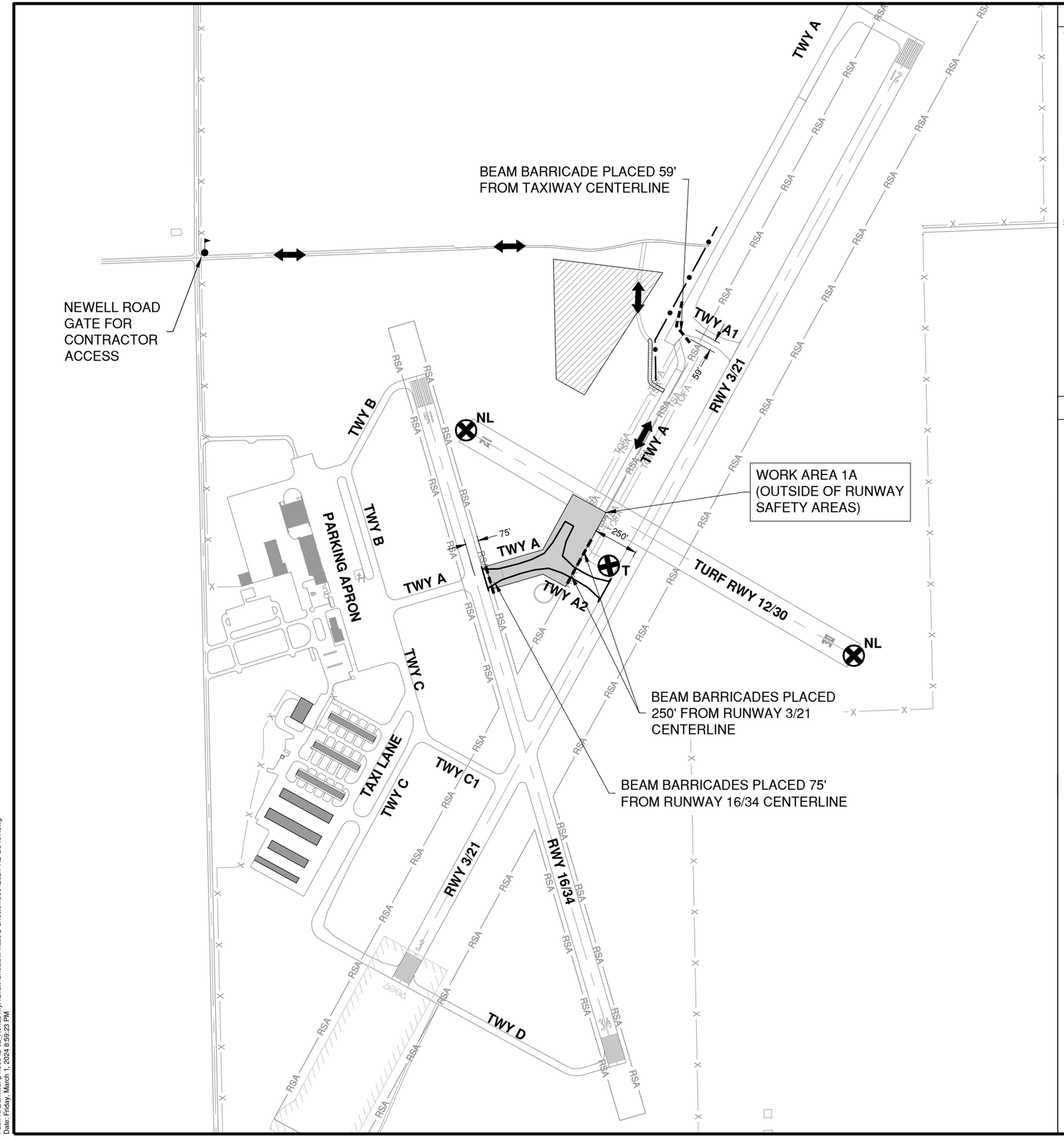

WORK AREA 1A NOTES

1. WORK TO BE COMPLETED WITHIN THIS WORK AREA SHALL, AS A MINIMUM, INCLUDE THE FOLLOWING MAJOR WORK ITEMS:
   - A. REMOVE AND DISPOSE OF EXISTING LIGHT BASES.
   - B. DEMOLISH EXISTING PAVEMENT
   - C. GRADING AND DRAINAGE IMPROVEMENTS.
   - D. CONSTRUCT NEW PAVEMENT
   - E. CONSTRUCT NEW LIGHT BASES AND INSTALL NEW LIGHTING CIRCUITS
   - H. CONSTRUCT NEW SIGN BASES AND SIGNS.
   - I. PAVEMENT MARKING
   - J. GRADING & TURFING
3. IN LIEU OF BEAM BARRICADES, CONTRACTOR MAY USE LIGHTED CONES WHERE NEEDED TO DESIGNATE A RUNWAY CLOSURE. SEE DETAIL 5, GC501.

LEGEND

- BEAM BARRICADES
- IDOT DRUM BARRICADES
- T — TAXIWAY CLOSURE MARKER (TEMPORARY)
- CONTRACTOR'S ACCESS ROUTE
- GATE GUARD/FLAGMAN
- L — RUNWAY CLOSURE MARKER (LIGHTED)
- NL — RUNWAY CLOSURE MARKER (NON-LIGHTED)
- * — CLOSURE MARKER/BARRICADE TO BE REMOVED DAILY (NOTE 1)

PAVEMENT STATUS

WORK AREA 1A	
PAVEMENT	**STATUS**
RUNWAY 3/21	OPEN
RUNWAY 16/34	OPEN
RUNWAY 12/30	CLOSED
TAXIWAY A	CLOSED SOUTH OF TXY A1
TAXIWAY A1	OPEN
EXISTING TAXIWAY A2	CLOSED
NEW TAXIWAY A2	CLOSED
TAXIWAY B	OPEN
TAXIWAY C1	OPEN
TAXIWAY D	OPEN

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0 300' 600'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CONSTRUCTION ACTIVITY PLAN - WORK AREA 1A

GC102

SHEET 9 OF 57

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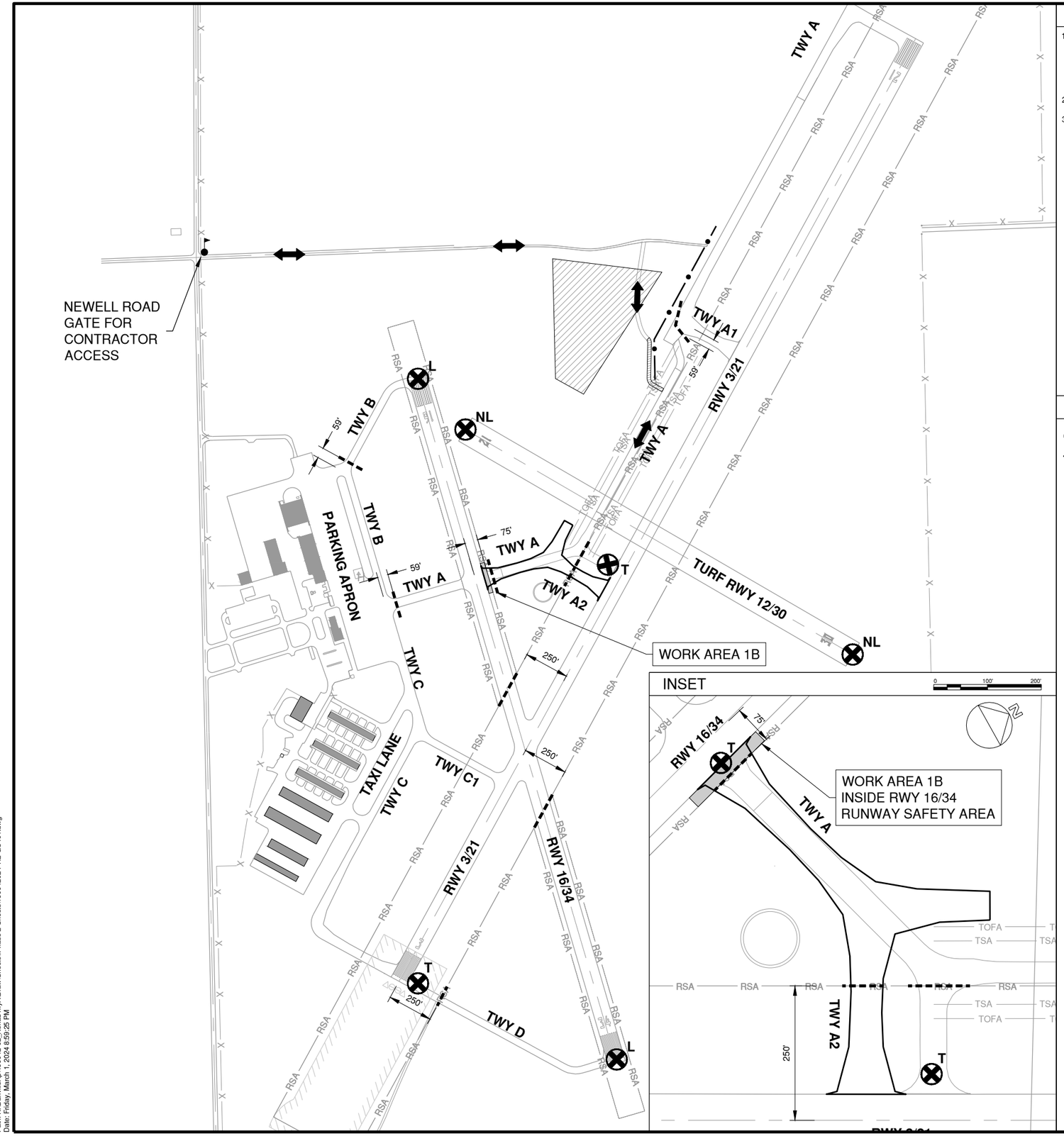

WORK AREA 1B NOTES

1. WORK AREA 1B SHALL BE PREFORMED BETWEEN 8:00AM AND 8:00PM. RUNWAY 3/21 SHALL BE OPEN TO AIR TRAFFIC FROM 8:00PM TO 8:00AM DAILY. WITH APPROPRIATE NOTAM'S COORDINATED WITH THE AIRPORT. THE CONTRACTOR SHALL PLACE AND REMOVE BARRICADES AND CLOSURE MARKERS AS SHOWN DAILY.
2. WORK AREA 1B MAY BE COMPLETED CONCURRENTLY WITH WORK AREA 1A.
3. WORK TO BE COMPLETED WITHIN THIS WORK AREA SHALL, AS A MINIMUM, INCLUDE THE FOLLOWING MAJOR WORK ITEMS:
   - A. REMOVE AND DISPOSE OF EXISTING LIGHT BASES.
   - B. DEMOLISH EXISTING PAVEMENT
   - C. GRADING AND DRAINAGE IMPROVEMENTS.
   - D. CONSTRUCT NEW PAVEMENT
   - E. CONSTRUCT NEW LIGHT BASES AND INSTALL NEW LIGHTING CIRCUITS
   - H. CONSTRUCT NEW SIGN BASES AND SIGNS.
   - I. PAVEMENT MARKING
   - J. GRADING & TURFING

LEGEND

- BEAM BARRICADES
- IDOT DRUM BARRICADES
- T — TAXIWAY CLOSURE MARKER (TEMPORARY)
- CONTRACTOR'S ACCESS ROUTE
- GATE GUARD/FLAGMAN
- L — RUNWAY CLOSURE MARKER (LIGHTED)
- NL — RUNWAY CLOSURE MARKER (NON-LIGHTED)
- * — CLOSURE MARKER/BARRICADE TO BE REMOVED DAILY (NOTE 1)

PAVEMENT STATUS

WORK AREA 1B	
PAVEMENT	**STATUS**
RUNWAY 3/21	OPEN
RUNWAY 16/34	CLOSED
RUNWAY 12/30	CLOSED
TAXIWAY A	CLOSED SOUTH OF TXY A1
TAXIWAY A1	OPEN
EXISTING TAXIWAY A2	CLOSED
NEW TAXIWAY A2	CLOSED
TAXIWAY B	CLOSED
TAXIWAY C1	OPEN
TAXIWAY D	CLOSED

CMT

License No. 184-000613

CONSULTANTS

N

0 300' 600'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-GC401.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

CONSTRUCTION ACTIVITY PLAN - WORK AREA 1B

GC103

SHEET 10 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-GC401.dwg
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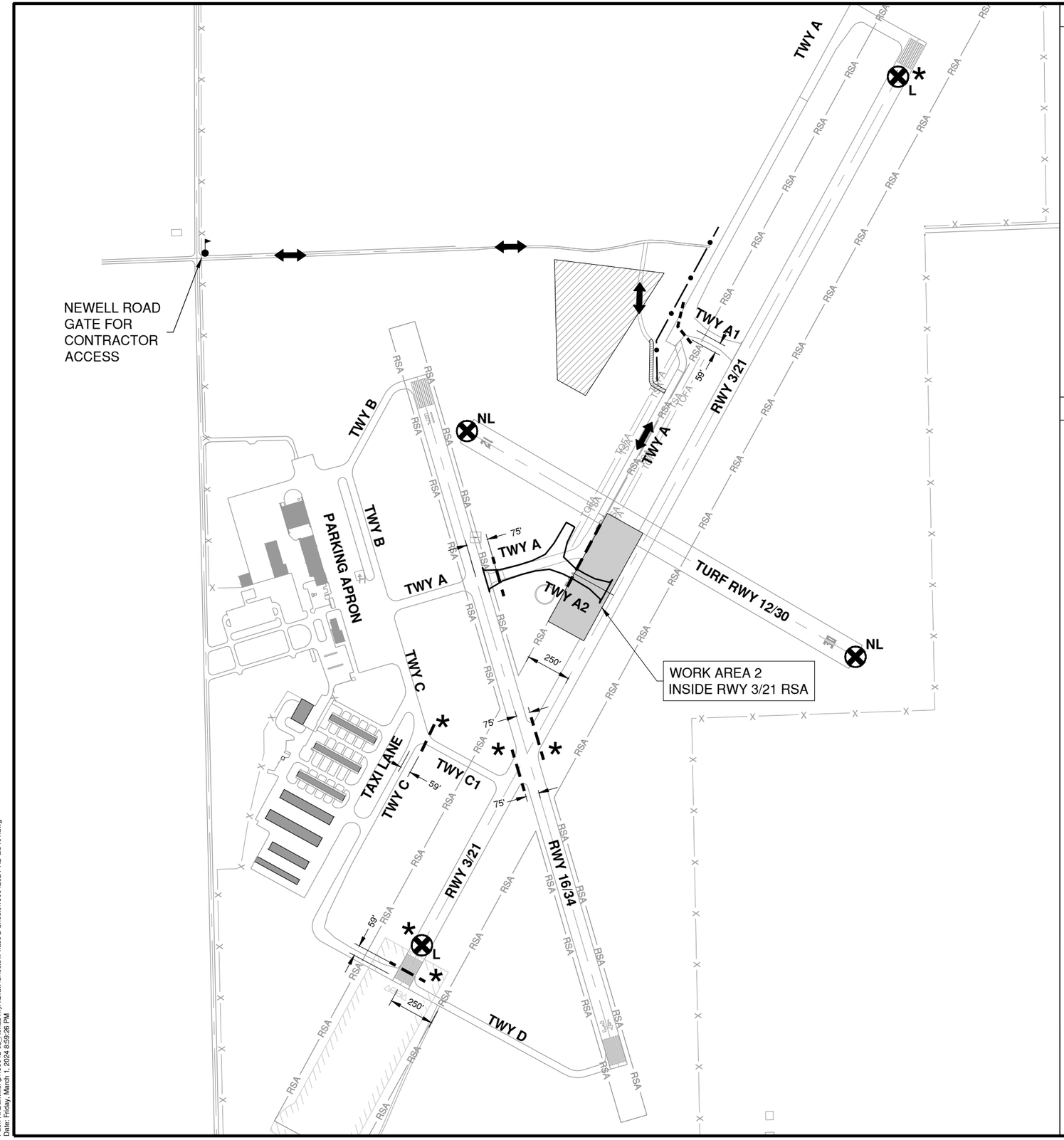

WORK AREA 2 NOTES

1. WORK AREA 2 SHALL BE PREFORMED BETWEEN 8:00AM AND 8:00PM. RUNWAY 3/21 SHALL BE OPEN TO AIR TRAFFIC FROM 8:00PM TO 8:00AM DAILY, WITH APPROPRIATE NOTAM'S COORDINATED WITH THE AIRPORT. THE CONTRACTOR SHALL PLACE AND REMOVE BARRICADES AND CLOSURE MARKERS AS SHOWN DAILY.
2. WORK AREA 2 SHALL NOT BE COMPLETED CONCURRENTLY WITH ANY OTHER WORK AREAS.
3. WORK TO BE COMPLETED WITHIN THIS WORK AREA SHALL, AS A MINIMUM, INCLUDE THE FOLLOWING MAJOR WORK ITEMS:
   - A. REMOVE AND DISPOSE OF EXISTING LIGHT BASES.
   - B. DEMOLISH EXISTING PAVEMENT
   - C. GRADING AND DRAINAGE IMPROVEMENTS.
   - D. CONSTRUCT NEW PAVEMENT
   - E. CONSTRUCT NEW LIGHT BASES AND INSTALL NEW LIGHTING CIRCUITS
   - H. CONSTRUCT NEW SIGN BASES AND SIGNS.
   - I. PAVEMENT MARKING
   - J. GRADING & TURFING

LEGEND

- BEAM BARRICADES
- IDOT DRUM BARRICADES
- T — TAXIWAY CLOSURE MARKER (TEMPORARY)
- CONTRACTOR'S ACCESS ROUTE
- GATE GUARD/FLAGMAN
- L — RUNWAY CLOSURE MARKER (LIGHTED)
- NL — RUNWAY CLOSURE MARKER (NON-LIGHTED)
- * — CLOSURE MARKER/BARRICADE TO BE REMOVED DAILY (NOTE 1)

PAVEMENT STATUS

WORK AREA 2

	PAVEMENT	STATUS
*	RUNWAY 3/21	OPEN BETWEEN 8:00PM & 8:00AM. CLOSED BETWEEN 8:00AM & 8:00PM
	RUNWAY 16/34	OPEN
	RUNWAY 12/30	CLOSED
	TAXIWAY A	CLOSED BETWEEN RWY 16/34 AND TXY A2
*	TAXIWAY A1	OPEN BETWEEN 8:00PM & 8:00AM. CLOSED BETWEEN 8:00AM & 8:00PM
	EXISTING TAXIWAY A2	CLOSED
	NEW TAXIWAY A2	CLOSED
	TAXIWAY B	OPEN
*	TAXIWAY C1	OPEN BETWEEN 8:00PM & 8:00AM. CLOSED BETWEEN 8:00AM & 8:00PM
	TAXIWAY D	OPEN

CMT

License No. 184-000613

CONSULTANTS

N

0 300' 600'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CONSTRUCTION ACTIVITY PLAN - WORK AREA 2

GC104

SHEET 11 OF 57

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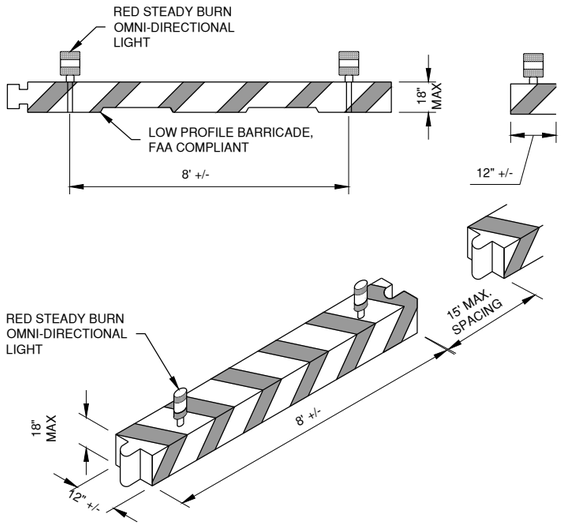
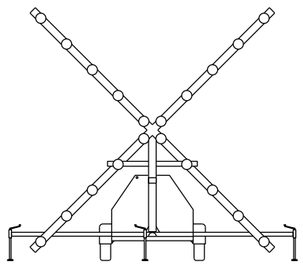


1 BEAM BARRICADE
N.T.S.

BEAM BARRICADE NOTES

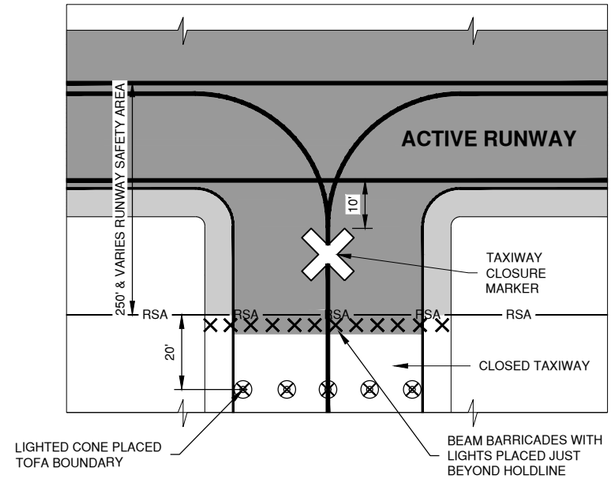
1. BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
2. BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER.
5. BARRICADES SHALL BE COMPLIANT WITH FAA AC 150/5370-2 (LATEST VERSION).
6. FINAL BEAM BARRICADE SPACING WILL BE BASED ON THE DISCRETION OF THE FAA.



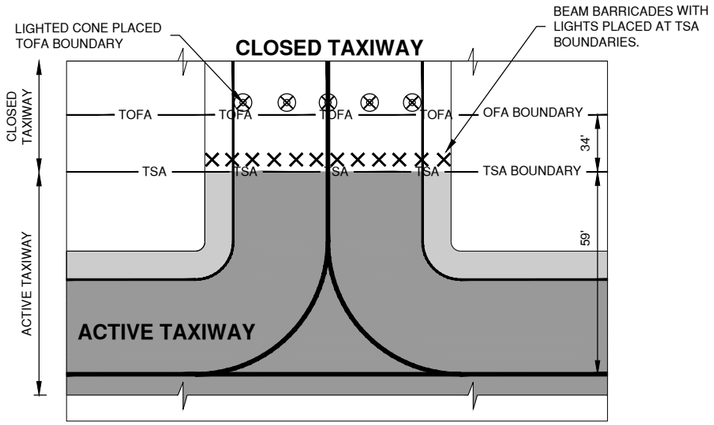
2 LIGHTED RUNWAY CLOSURE MARKER
N.T.S.

LIGHTED RUNWAY CLOSURE MARKER NOTES

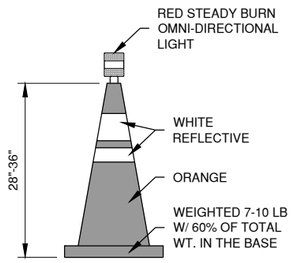
1. TO BE PLACED ON PAVEMENT AT THE RUNWAY NUMERALS FOR CLOSURE.
2. THE CONTRACTOR SHALL PROVIDE FOUR LIGHTED CLOSURE MARKERS (2 PAIR) AND MAINTAIN THEM (FUEL, OIL, LIGHT BULBS) WHEN USED DURING CONSTRUCTION CLOSURES.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS ASSOCIATED WITH PROVIDING AND MAINTAINING THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.



3 CLOSED TAXIWAY / ACTIVE RUNWAY BARRICADES
N.T.S.



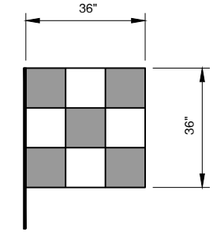
4 CLOSED TAXIWAY / ACTIVE TAXIWAY BARRICADES
N.T.S.



5 LIGHTED CONE
N.T.S.

LIGHTED CONE NOTES

1. CONE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST. IF USING SAND BAGS, THEY MUST BE LESS THAN 3" HIGH AND ORANGE IN COLOR. IF THE CONTRACTOR IS UNABLE TO ADEQUATELY SECURE THE CONES TO PREVENT OVERTURNING, THEY SHALL BE REPLACED WITH BEAM BARRICADES.
2. CONES SHALL BE NEW TO MAXIMIZE THE VISIBILITY OF THE ORANGE AND WHITE COLORS.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. BARRICADES AND CONES SHALL BE COMPLIANT WITH FAA AC 150/5370-2 (LATEST VERSION).
5. CONES SHALL BE PLACED WITH MAXIMUM 15' SPACING.

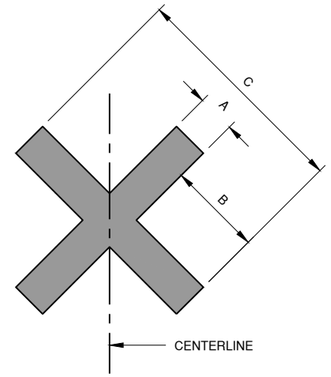


6 EQUIPMENT & VEHICLE SIGNAL FLAG
N.T.S.

(ORANGE / WHITE)

EQUIPMENT FLAG NOTES

1. ALL CONTRACTOR VEHICLES AND EQUIPMENT SHALL DISPLAY COMPANY LOGO PLACARDS AND FLAG OR LIGHTED BEACON.
2. WHEN WORKING PRIOR TO DAWN OR AFTER DUSK, A 360 DEGREE ROTATING AMBER BEACON IS REQUIRED ON ALL EQUIPMENT AND TRUCKS.
3. CONTRACTOR SHALL REPLACE FLAGS THAT ARE WORN AND INEFFECTIVE.



SYMBOL TYPE \ DIMENSION	A	B	C
CLOSED TAXIWAY	5'-0"	12'-6"	30'-0"
CLOSED RUNWAY	10'-0"	25'-0"	60'-0"

7 NON-LIGHTED CLOSED MARKER
N.T.S.

NOTES

1. CLOSURE MARKERS SHALL BE SOLID YELLOW.
2. NON-LIGHTED CLOSURE MARKERS SHALL BE PLACED ON TAXIWAYS AT THE RUNWAY INTERSECTIONS INSIDE THE RUNWAY SAFETY AREA.
3. NON-LIGHTED RUNWAY CLOSURE MARKERS SHALL BE PLACED ON THE TURF RUNWAY.
4. MARKERS SHALL BE PLACED ON THE TURF RUNWAY ON BOTH ENDS.
5. MARKERS MAY BE CONSTRUCTED OF FABRIC, COLORED PLASTIC, PAINTED SHEETS OF PLYWOOD OR SIMILAR MATERIALS.
6. MARKERS SHALL BE SECURED TO PREVENT MOVEMENT BY PROP WASH, JET BLAST OR OTHER WIND CURRENTS. METHODS OF SECURING THE MARKERS SHALL NOT PROTRUDE MORE THAN 3" ABOVE THE PAVEMENT.
7. REFER TO THE CONSTRUCTION ACTIVITY PLAN (CAP) FOR QUANTITIES OF TAXIWAY CLOSURE MARKERS.

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	19004-02-20
CAD DWG FILE:	19004202-PH2-GC501.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

CONSTRUCTION ACTIVITY PLAN DETAILS 1

GC501

SHEET 12 OF 57

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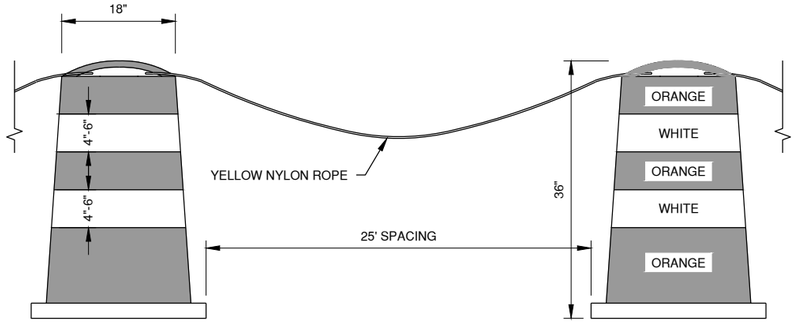
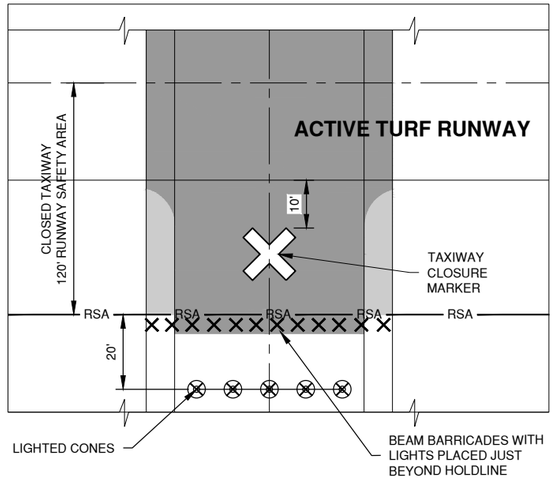


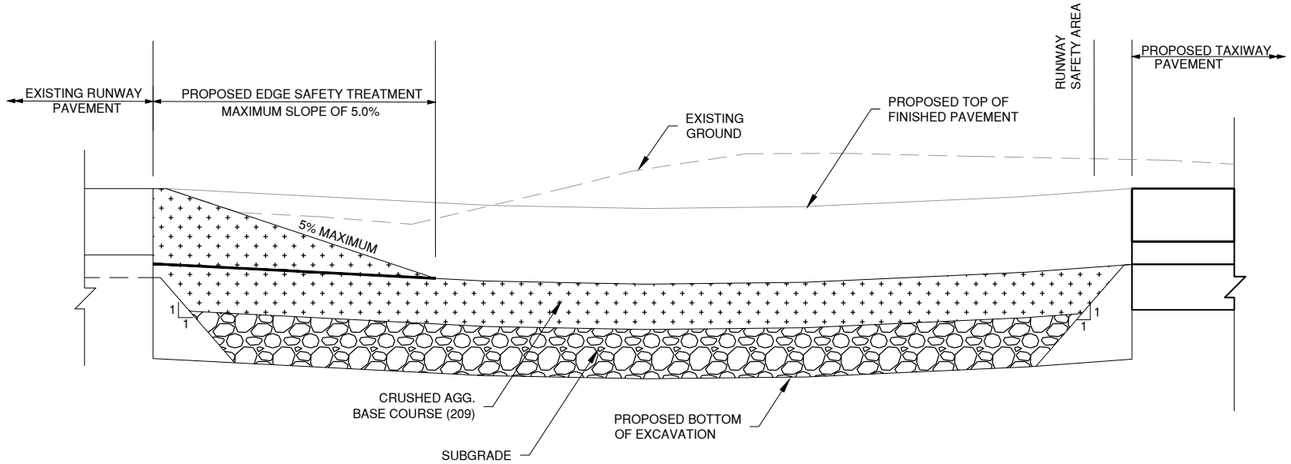
1 IDOT DRUM BARRICADES
N.T.S.

DRUM BARRICADE NOTES

1. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
2. PLACE AND MAINTAIN UNTIL REMOVAL ACCORDING TO CSPP.
3. BARRELS SHALL BE WEIGHTED SUFFICIENTLY TO PREVENT DISPLACEMENT.



2 CLOSED TAXIWAY/ACTIVE TURF RUNWAY BARRICADE
N.T.S.



3 PAVEMENT TRANSITION WITHIN RSA
N.T.S.

PAVEMENT TRANSITION NOTES

1. VERTICAL DROPOFFS SHALL NOT EXCEED 3" WITHIN THE RUNWAY SAFETY AREA. THE SAFETY AREA EXTENDS 250' (RWY 3/21) AND 75' (RWY 16/34) FROM THE CENTERLINE OUTWARD. THE CONTRACTOR SHALL PLAN THEIR LIMITS OF WORK ACCORDINGLY.
2. EDGE TREATMENT MUST BE IN PLACE PRIOR TO OPENING A PAVEMENT TO AIR TRAFFIC.
3. EDGE TREATMENT MUST BE USED ON ALL PHASES OF CONSTRUCTION DONE WITHIN THE RUNWAY SAFETY AREA.
4. COSTS ASSOCIATED WITH PAVEMENT TRANSITION WILL BE INCIDENTAL TO PROJECT.

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License No. 184-000613
CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER
VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	1900420 2-PH2-GC501.DWG
DESIGNED BY:	EMH
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SHEET TITLE
CONSTRUCTION ACTIVITY PLAN DETAILS 2

GC502
SHEET 13 OF 57

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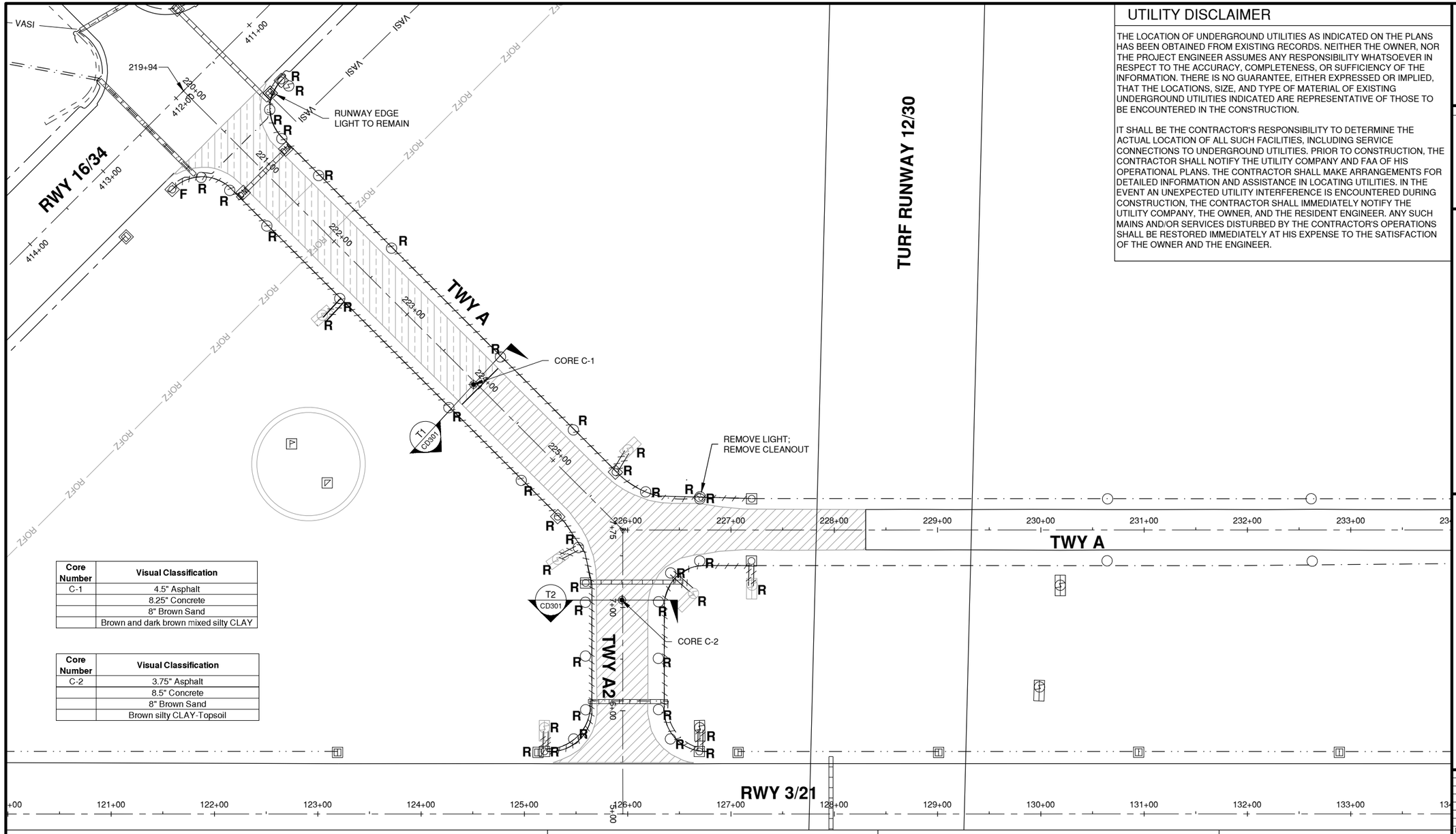


Core Number	Visual Classification
C-1	4.5" Asphalt
	8.25" Concrete
	8" Brown Sand
	Brown and dark brown mixed silty CLAY

Core Number	Visual Classification
C-2	3.75" Asphalt
	8.5" Concrete
	8" Brown Sand
	Brown silty CLAY-Topsoil

LEGEND

- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- EXISTING RUNWAY LIGHT
- EXISTING TAXIWAY GUIDANCE SIGN
- EXISTING SPLICE CAN
- EXISTING WINDCONE
- EXISTING DUCT MARKER
- EXISTING CATCH BASIN
- EXISTING UNDERDRAIN CLEANOUT
- R — REMOVALS
- F — REMOVE FIXTURE & KEEP CKT ACTIVE
- EXISTING DUCT BANK
- EXISTING TAXIWAY A CIRCUIT
- REMOVE TAXIWAY A CIRCUIT
- EXISTING RUNWAY 3/21 CIRCUIT
- EXISTING RUNWAY 16/34 CIRCUIT
- ST — EXISTING STORM SEWER
- CORE BORING LOCATION

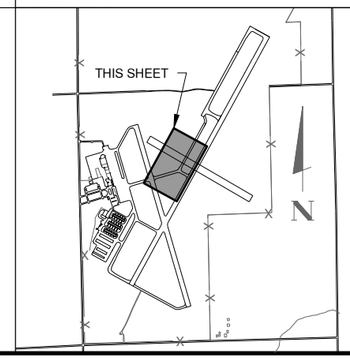
PAVEMENT LEGEND

- BUTT JOINT CONSTRUCTION
- REMOVE PAVEMENT: AR401921
- MILL & OVERLAY

NOTES

1. EXISTING PAVEMENT STRUCTURES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND ARE CONSIDERED GENERALLY REPRESENTATIVE OF THE AS-CONSTRUCTED PAVEMENT SECTION. SOME VARIABILITY IN ACTUAL PAVEMENT THICKNESS IS TO BE EXPECTED.
2. CONTRACTOR SHALL PROTECT PAVEMENTS THAT ARE ADJACENT TO THE REMOVAL LIMITS. CONTRACTOR SHALL REPAIR ANY DAMAGE TO PAVEMENT TO REMAIN AT HIS EXPENSE AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY JUMPER CABLES AS NEEDED TO KEEP ALL CIRCUITS ACTIVE ON PAVEMENTS OPEN TO AIR TRAFFIC BETWEEN DEMOLITION AND CONSTRUCTION OF NEW PAVEMENTS. PAYMENT FOR THIS SHALL BE MADE UNDER THE 5KV #8 L-CABLE PAY ITEM(S).

KEYMAP



UTILITY DISCLAIMER

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND FAA OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER, AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

CMT
License No. 184-000613
CONSULTANTS

N
0 50' 100'
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER
VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CD101.DWG
DESIGNED BY:	EMH
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SHEET TITLE
DEMOLITION PLAN 1

CD101
SHEET 14 OF 57

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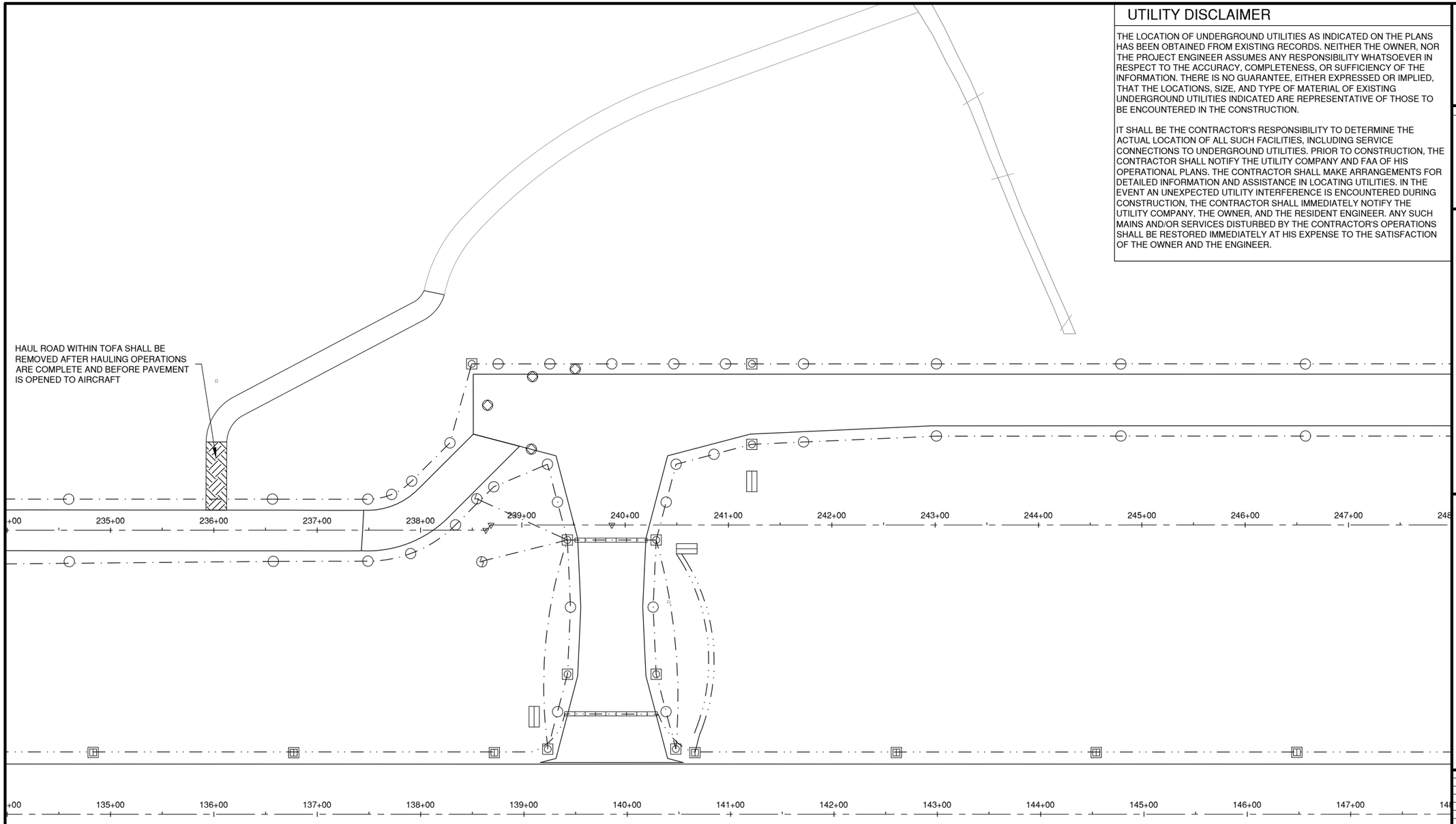
HAUL ROAD WITHIN TOFA SHALL BE REMOVED AFTER HAULING OPERATIONS ARE COMPLETE AND BEFORE PAVEMENT IS OPENED TO AIRCRAFT



LEGEND

○	EXISTING STAKE MOUNTED TAXIWAY LIGHT
⊙	EXISTING BASE MOUNTED TAXIWAY LIGHT
⊟	EXISTING RUNWAY LIGHT
▭	EXISTING TAXIWAY GUIDANCE SIGN
ϟ	EXISTING SPLICE CAN
P	EXISTING WINDCONE
□	EXISTING DUCT MARKER
CB	EXISTING CATCH BASIN
CO	EXISTING UNDERDRAIN CLEANOUT
R	REMOVALS
F	REMOVE FIXTURE & KEEP CKT ACTIVE
▭▭▭▭▭	EXISTING DUCT BANK
— · —	EXISTING TAXIWAY A CIRCUIT
— · — · —	EXISTING RUNWAY 3/21 CIRCUIT
— – —	EXISTING RUNWAY 16/34 CIRCUIT
—▷— ST —	EXISTING STORM SEWER

NOTES

1. EXISTING PAVEMENT STRUCTURES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND ARE CONSIDERED GENERALLY REPRESENTATIVE OF THE AS-CONSTRUCTED PAVEMENT SECTION. SOME VARIABILITY IN ACTUAL PAVEMENT THICKNESS IS TO BE EXPECTED.
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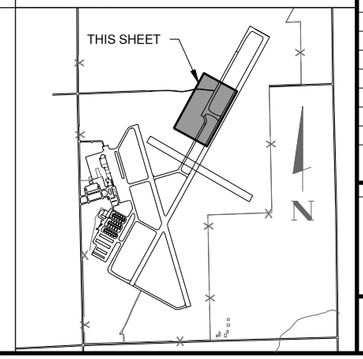

CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

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100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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SHEET TITLE

DEMOLITION PLAN 2

CD102

SHEET 15 OF 57

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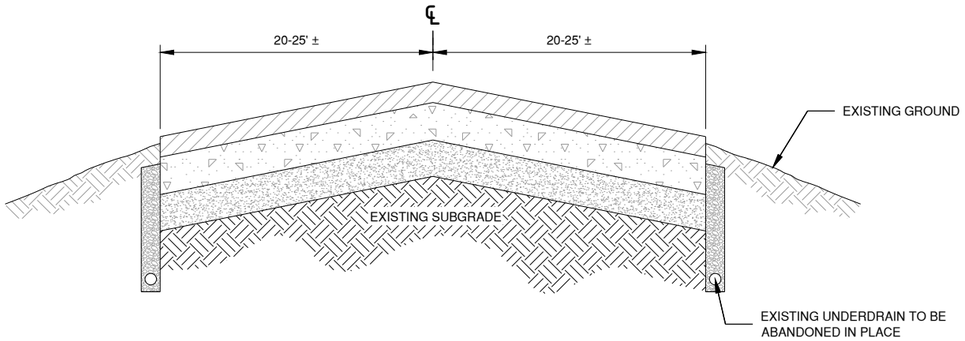


T1 EXISTING TAXIWAY A SECTION (C-1)

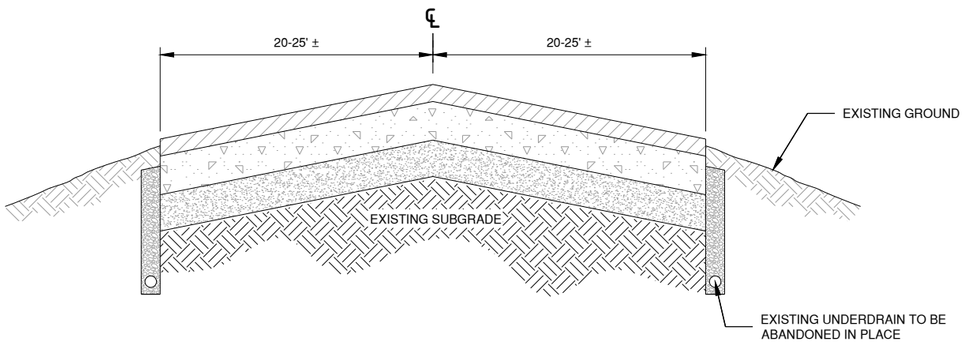
N.T.S

CD101

Core Number	Visual Classification
C-1	4.5" Asphalt
	8.25" Concrete
	8" Brown Sand
	Brown and dark brown mixed silty CLAY

NOTES

1. EXISTING PAVEMENT STRUCTURES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND ARE CONSIDERED GENERALLY REPRESENTATIVE OF THE AS-CONSTRUCTED PAVEMENT SECTION. SOME VARIABILITY IN ACTUAL PAVEMENT THICKNESS IS TO BE EXPECTED.



T2 EXISTING TAXIWAY A SECTION (C-2)

N.T.S

CD101

Core Number	Visual Classification
C-2	3.75" Asphalt
	8.5" Concrete
	8" Brown Sand
	Brown silty CLAY-Topsoil

CMT
License No. 184-000613
CONSULTANTS

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CD301.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH
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SHEET TITLE

EXISTING PAVEMENT SECTIONS

CD301

SHEET 16 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CD301.dwg
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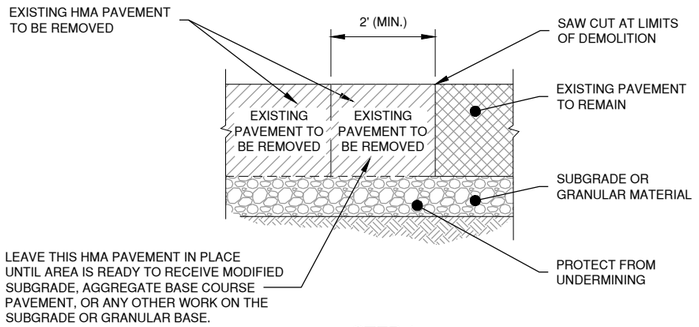
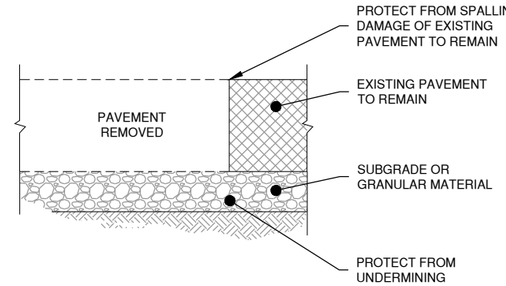


STEP 1



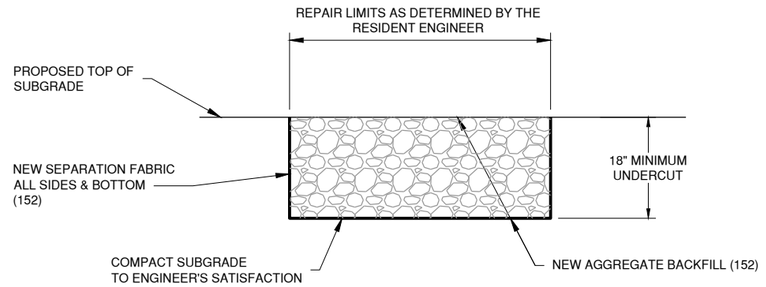
STEP 2

1 SAW CUT HMA PAVEMENT DEMOLITION AGAINST PCC OR HMA PAVEMENT TO REMAIN DETAIL

N.T.S

SAW CUT AND OTHER DEMOLITION NOTES

1. PROTECT PAVEMENT TO REMAIN IN PLACE FROM UNDERMINING.
2. SAW CUTS SHALL BE FULL DEPTH ON PAVEMENT PRIOR TO REMOVAL OF PAVEMENT SECTION.
3. DO NOT REMOVE 2' OF HMA PAVEMENT AGAINST EXISTING HMA PAVEMENT TO REMAIN UNTIL AREA IS READY TO RECEIVE MODIFIED SUBGRADE OR AGGREGATE BASE COURSE. WORK ON EXPOSED SUBGRADE PRIOR TO RECEIVING MODIFIED SUBGRADE OR AGGREGATE BASE COURSE SHALL BE COMPLETED WITHIN 48 HOURS AFTER THE REMOVAL OF HMA PAVEMENT



2 SUBGRADE UNDERCUT & AGGREGATE BACKFILL

N.T.S

CMT
License No. 184-000613
CONSULTANTS

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CD501.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

PAVEMENT DEMOLITION AND SUBGRADE DETAIL

CD501

SHEET 17 OF 57

Path: K:\Danville\Ap\190042-02_Rehab\TxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CD501.dwg
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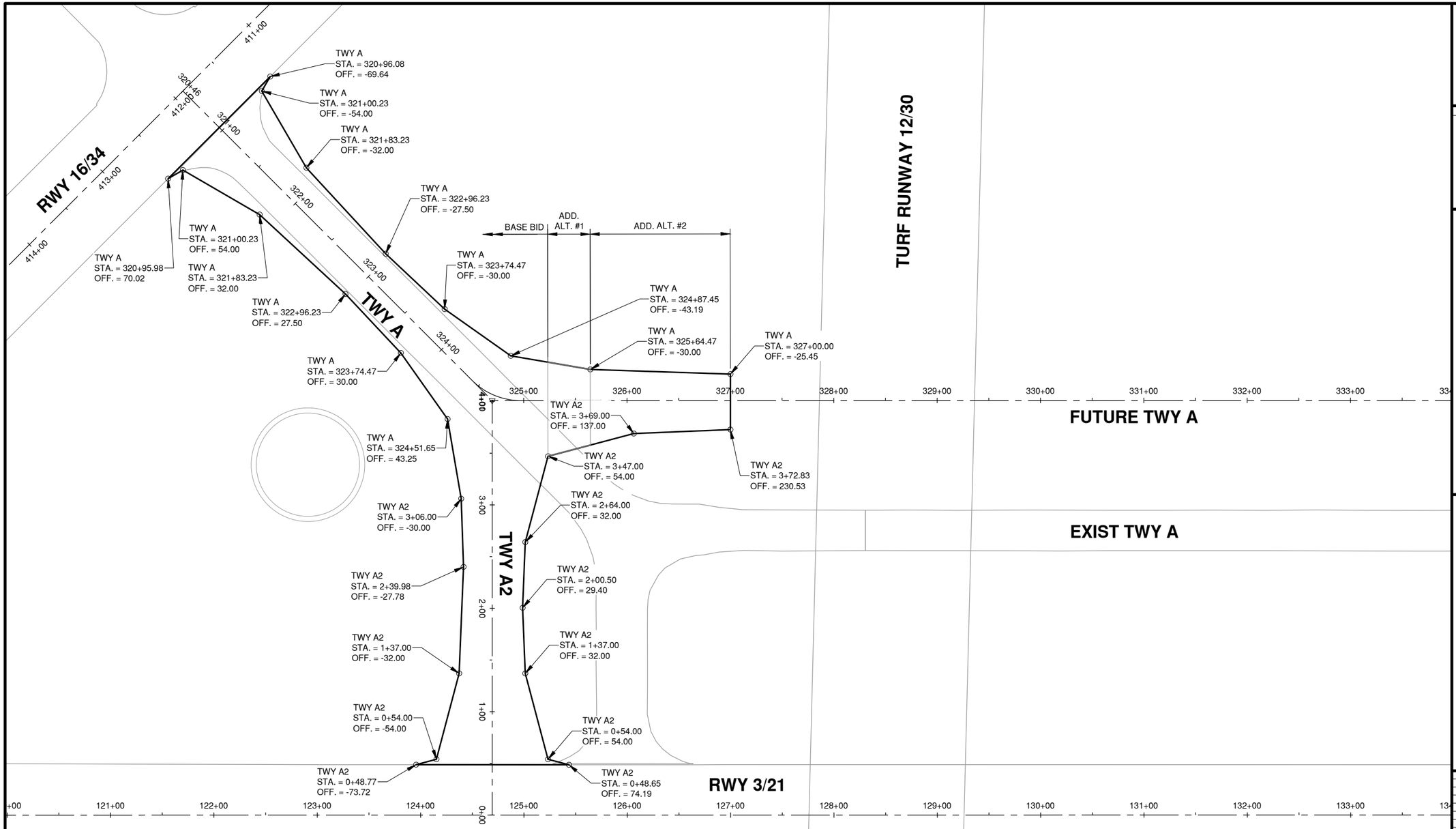
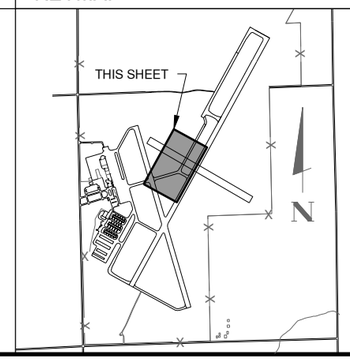


LEGEND

KEYMAP



CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP101.DWG
DESIGNED BY:	EMH
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SHEET TITLE

PROPOSED GEOMETRY

CP101

SHEET 18 OF 57

Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP101.dwg
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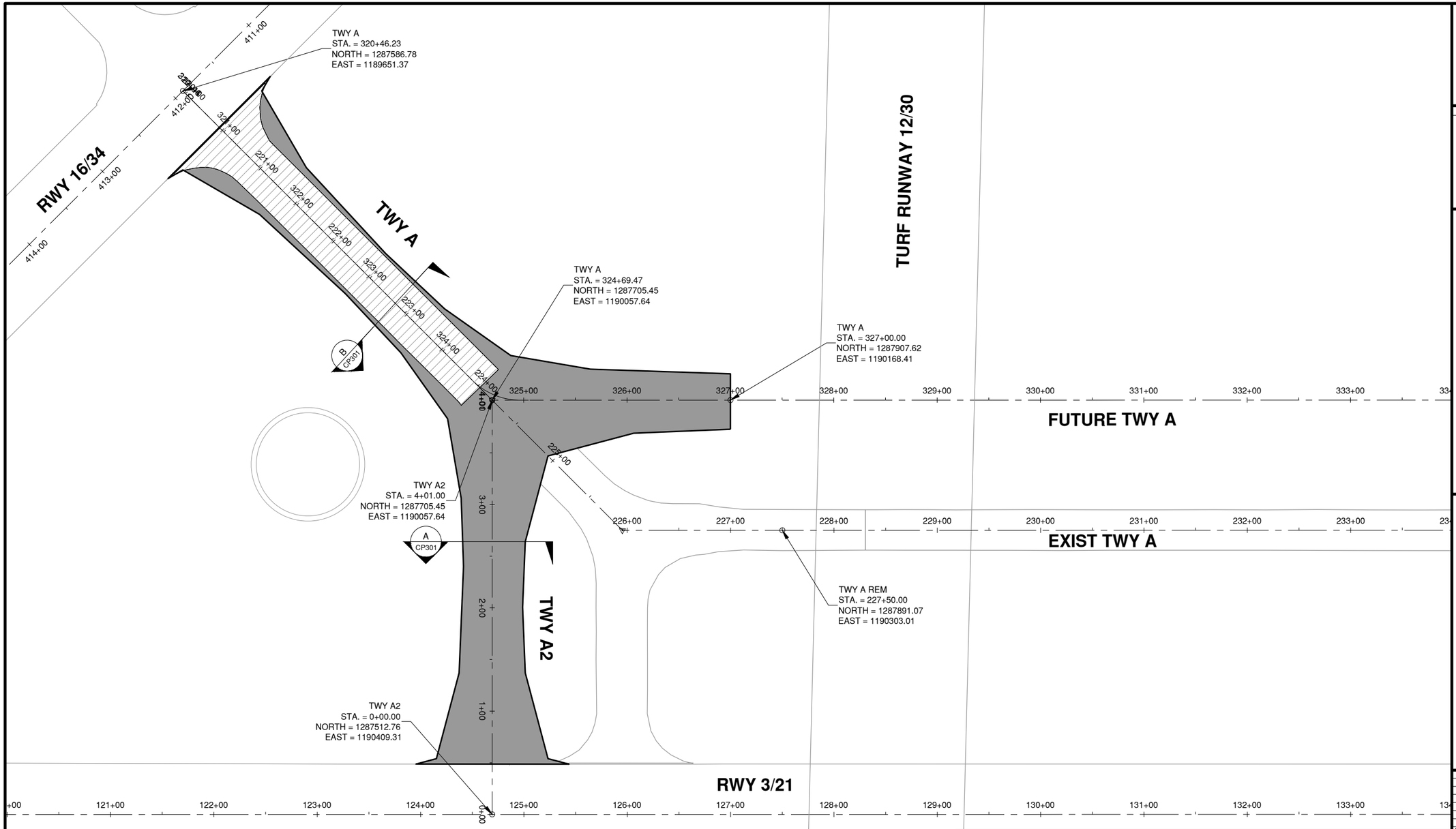


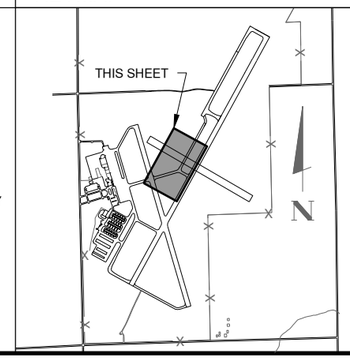
LEGEND

X / CPXXX — TYPICAL SECTION

NEW PAVEMENT - FULL DEPTH

NEW PAVEMENT - MILL & OVERLAY

KEYMAP



CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP102.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

PROPOSED IMPROVEMENTS

CP102

SHEET 19 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP102.dwg
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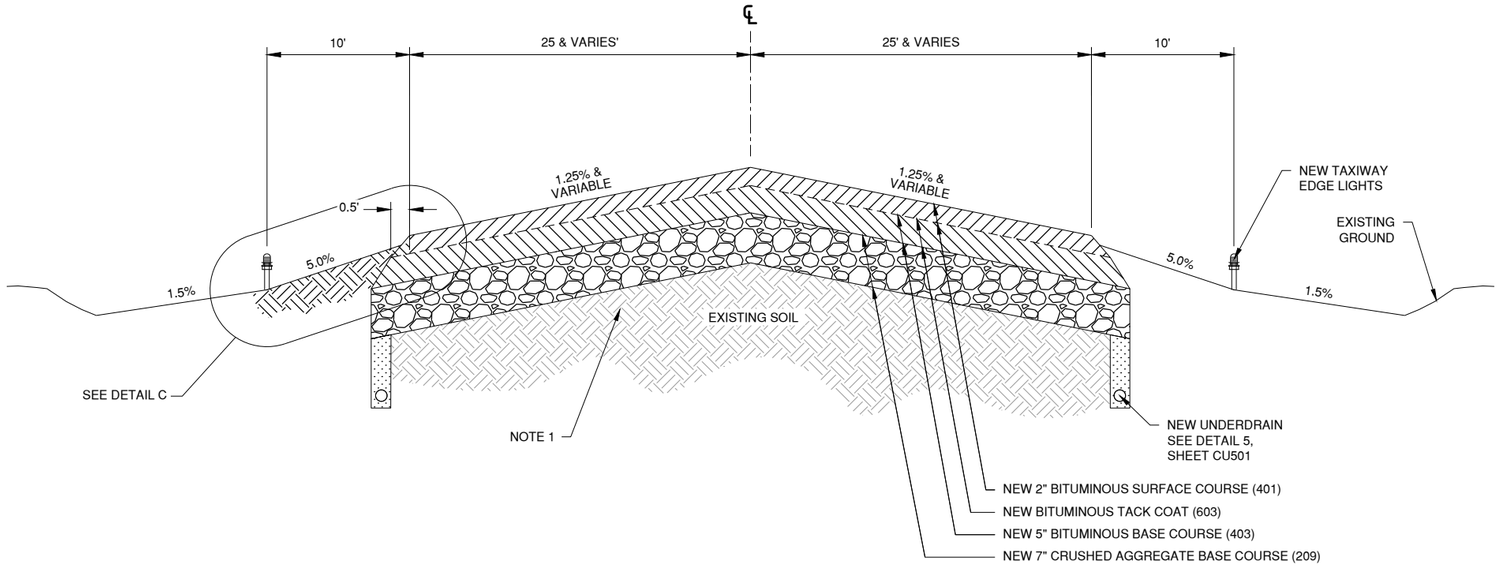
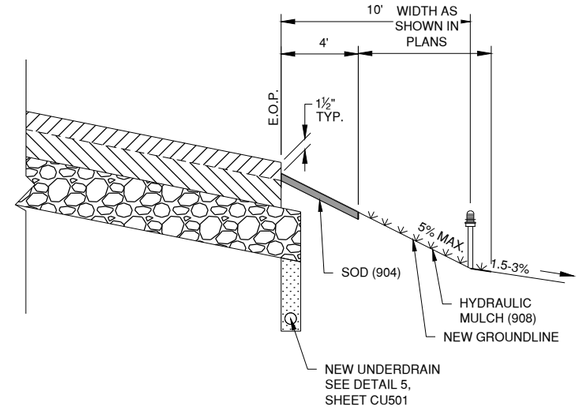


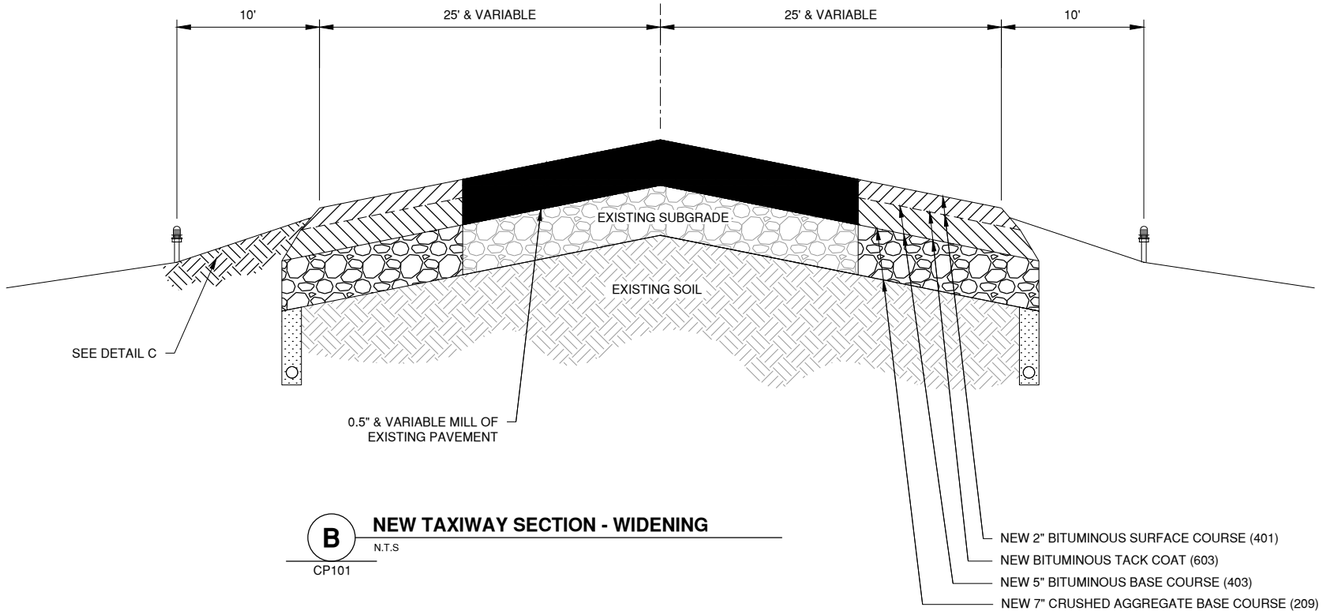
NOTES:

1. SEE SUBGRADE UNDERCUT AND AGGREGATE BACKFILL DETAIL SHEET CD501 FOR SUBGRADE REPAIR.

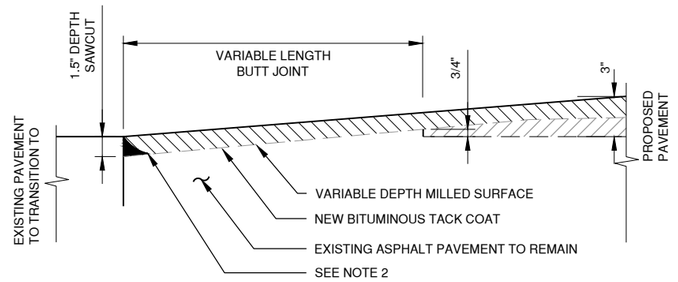
A NEW TAXIWAY SECTION - FULL WIDTH
N.T.S
CP101



C NEW SHOULDER DETAIL B
N.T.S
CP101



B NEW TAXIWAY SECTION - WIDENING
N.T.S
CP101



LEGEND:

1ST LIFT OF HMA ON TACK COAT

2ND LIFT OF HMA ON TACK COAT

NOTES:

1. VARIABLE DEPTH MILLING FOR BUTT JOINT SHALL BE PAID FOR UNDER AR401655. TACK COAT, BITUMINOUS SURFACE COURSE, AND CRACK REPAIR SHALL BE PAID FOR SEPARATELY UNDER THEIR RESPECTIVE PAY ITEMS.
2. CONTRACTOR SHALL SAW AND CHISEL ANY REMAINING ASPHALT NOT REMOVED BY THE MILL TO ACHIEVE A CLEAN, VERTICAL FACE TO THE SAWCUT.

D BUTT JOINT DETAIL
N.T.S
CP101

CMT

License No. 184-000613

CONSULTANTS

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP301.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
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SHEET TITLE

NEW PAVEMENT SECTIONS

CP301

SHEET 20 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP301.dwg
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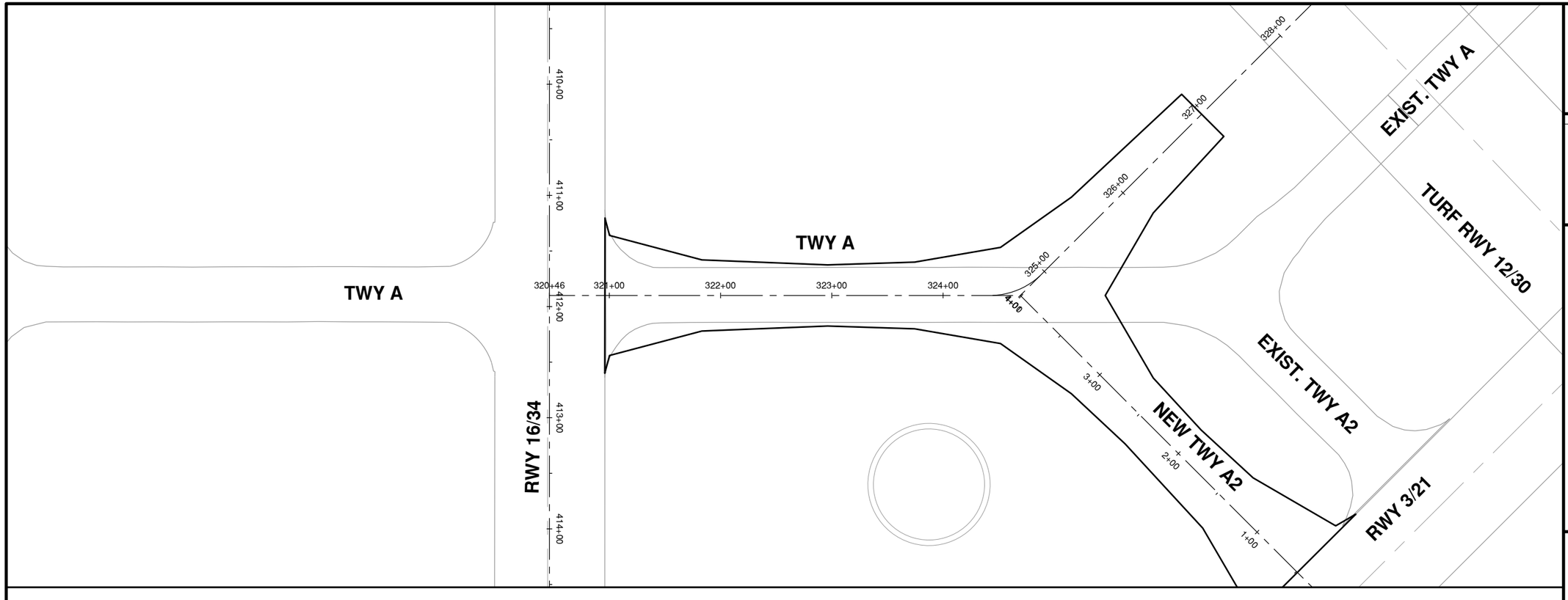

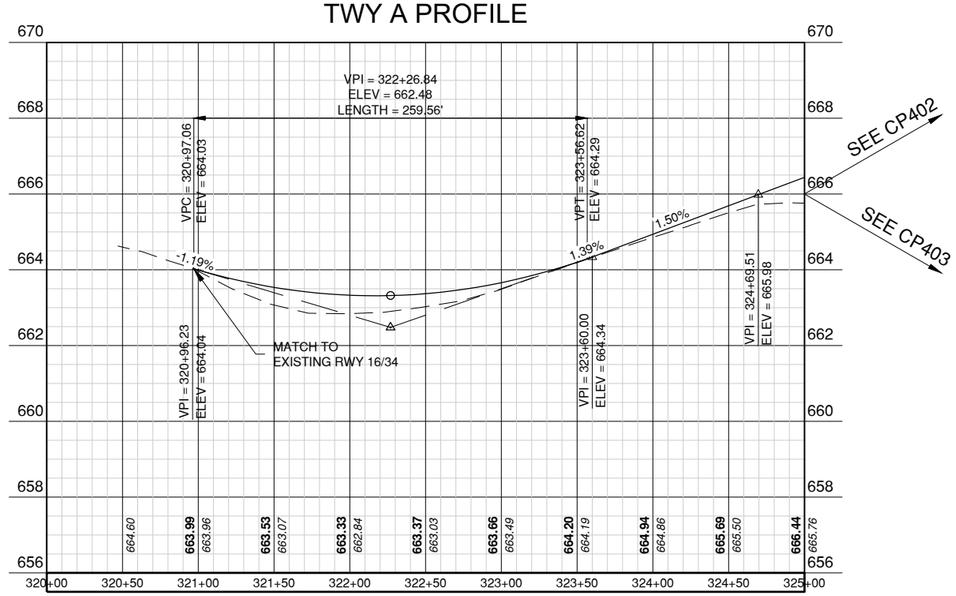

CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP401.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH

SHEET TITLE

PLAN & PROFILE 1
TXY A

CP401

SHEET 21 OF 57

Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP401.dwg
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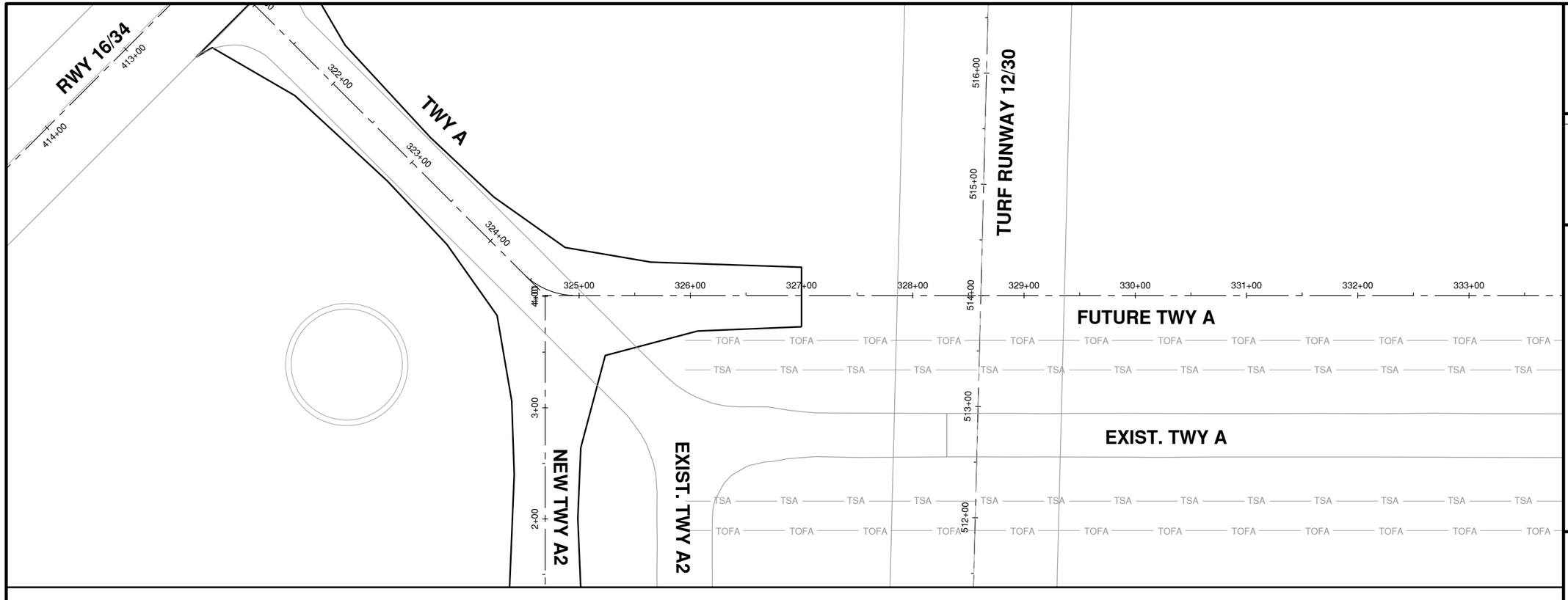
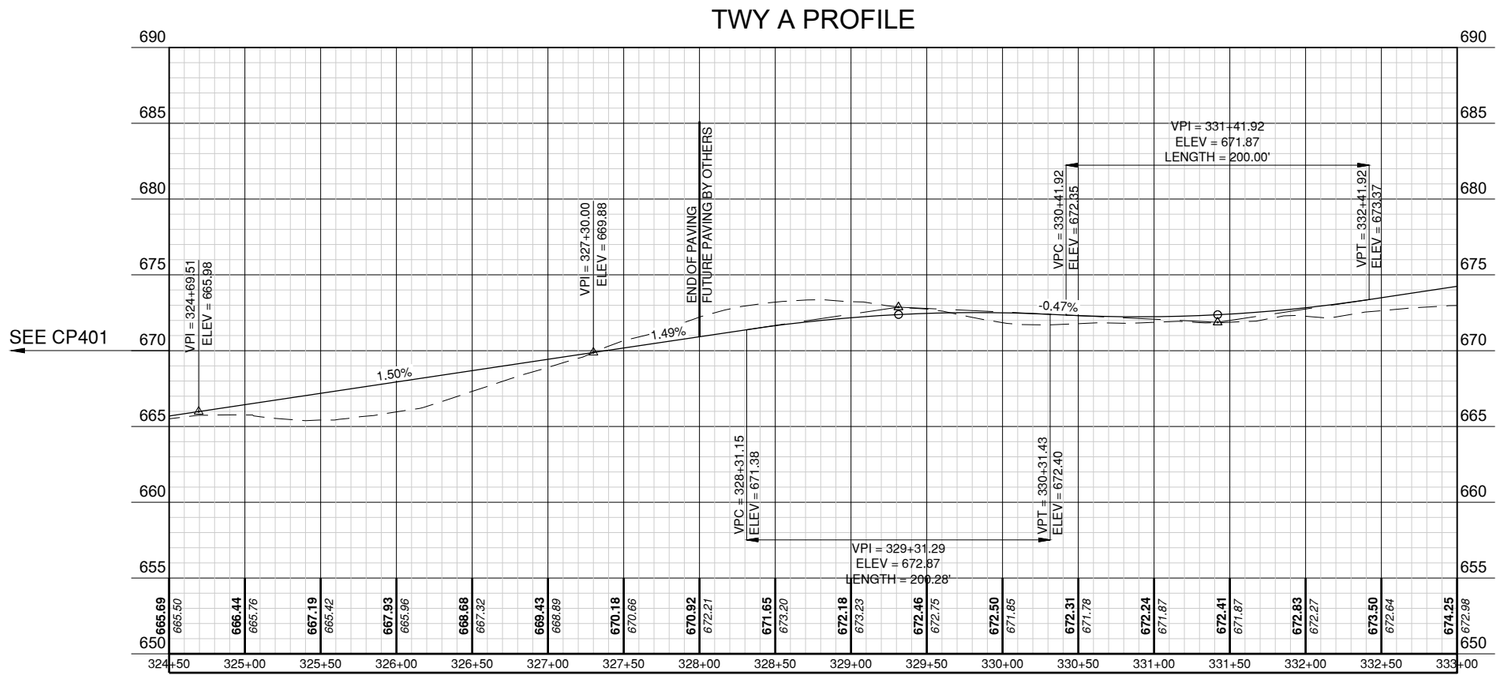


TWY A PROFILE



CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP402.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH

SHEET TITLE

PLAN & PROFILE 2
TWY A

CP402

SHEET 22 OF 57

Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP402.dwg
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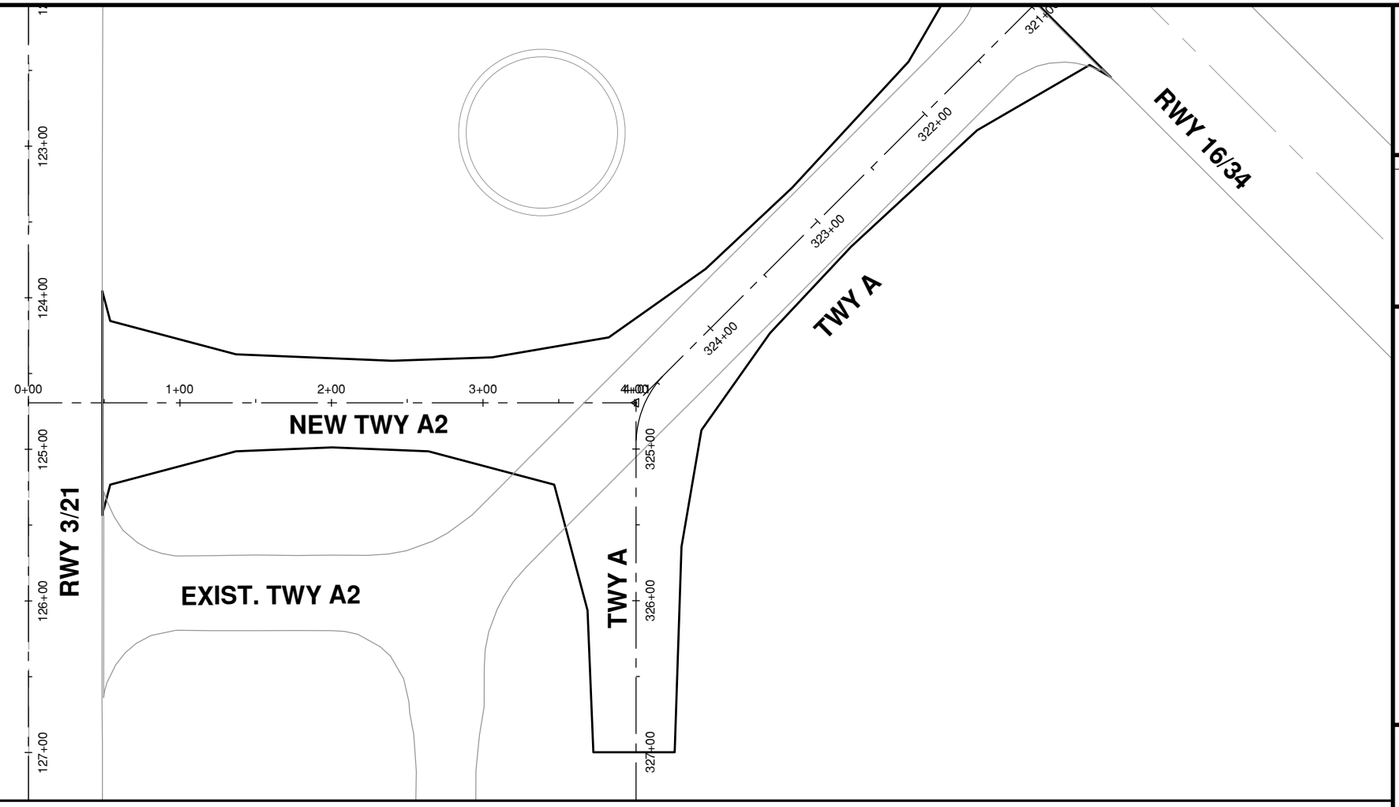

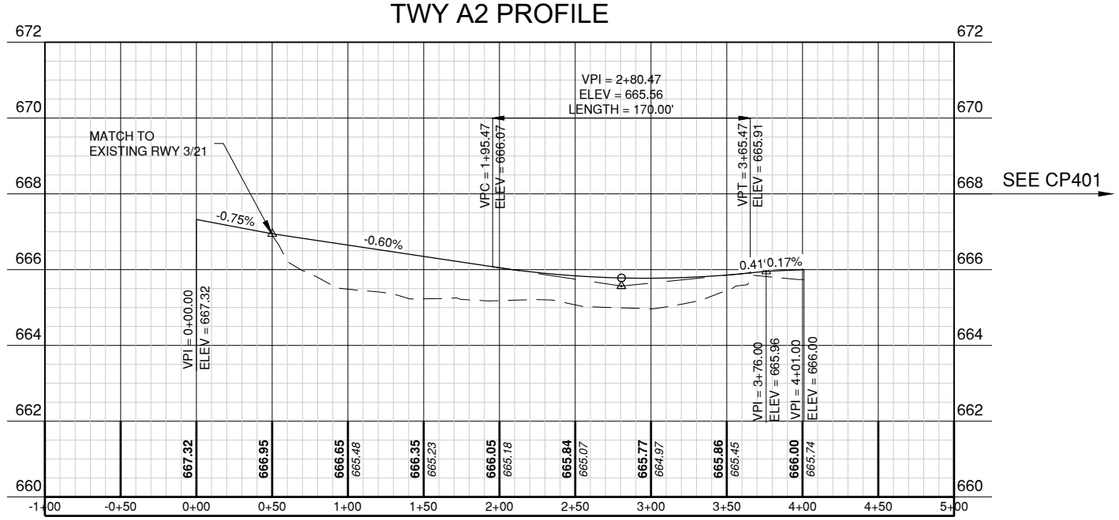

SEE CP401

CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CP403.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH

SHEET TITLE

PLAN & PROFILE 3
TXY A2

CP403

SHEET 23 OF 57

Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CP403.dwg
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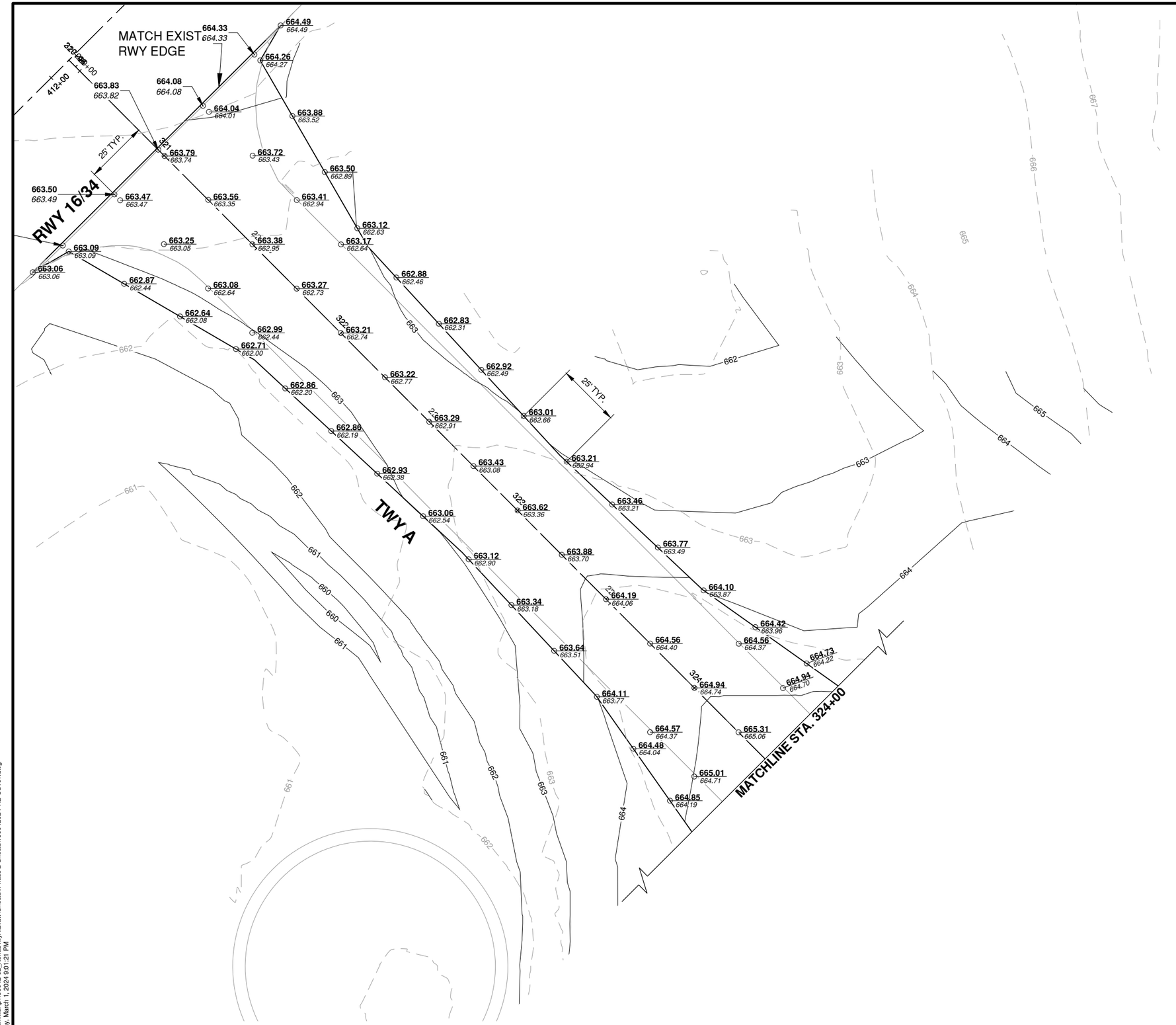
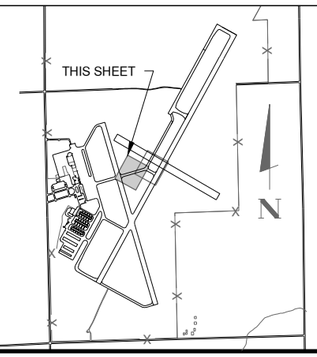


NOTES

LEGEND

- NEW ELEVATION
- EXISTING ELEVATION
- NEW CONTOUR
- EXISTING CONTOUR

KEYMAP



CMT

License No. 184-000613

CONSULTANTS

N

0 10' 20' 40'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CS101.DWG
DESIGNED BY:	CJF
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

STAKING PLAN 1

CS101

SHEET 24 OF 57

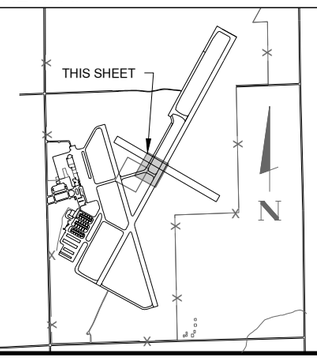
Path: K:\DanvilleAp\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CS101.dwg
Date: Friday, March 1, 2024 9:01:21 PM

NOTES

LEGEND

- 594.52 — NEW ELEVATION
- 594.11 — EXISTING ELEVATION
- 590.5 — NEW CONTOUR
- 590.5 — EXISTING CONTOUR

KEYMAP



CMT

License No. 184-000613

CONSULTANTS

0 30' 60'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-TBD	
IL. PROJ. NO. DNV-5110	
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CS101.DWG
DESIGNED BY:	CJF
DRAWN BY:	CMT
CHECKED BY:	MJD
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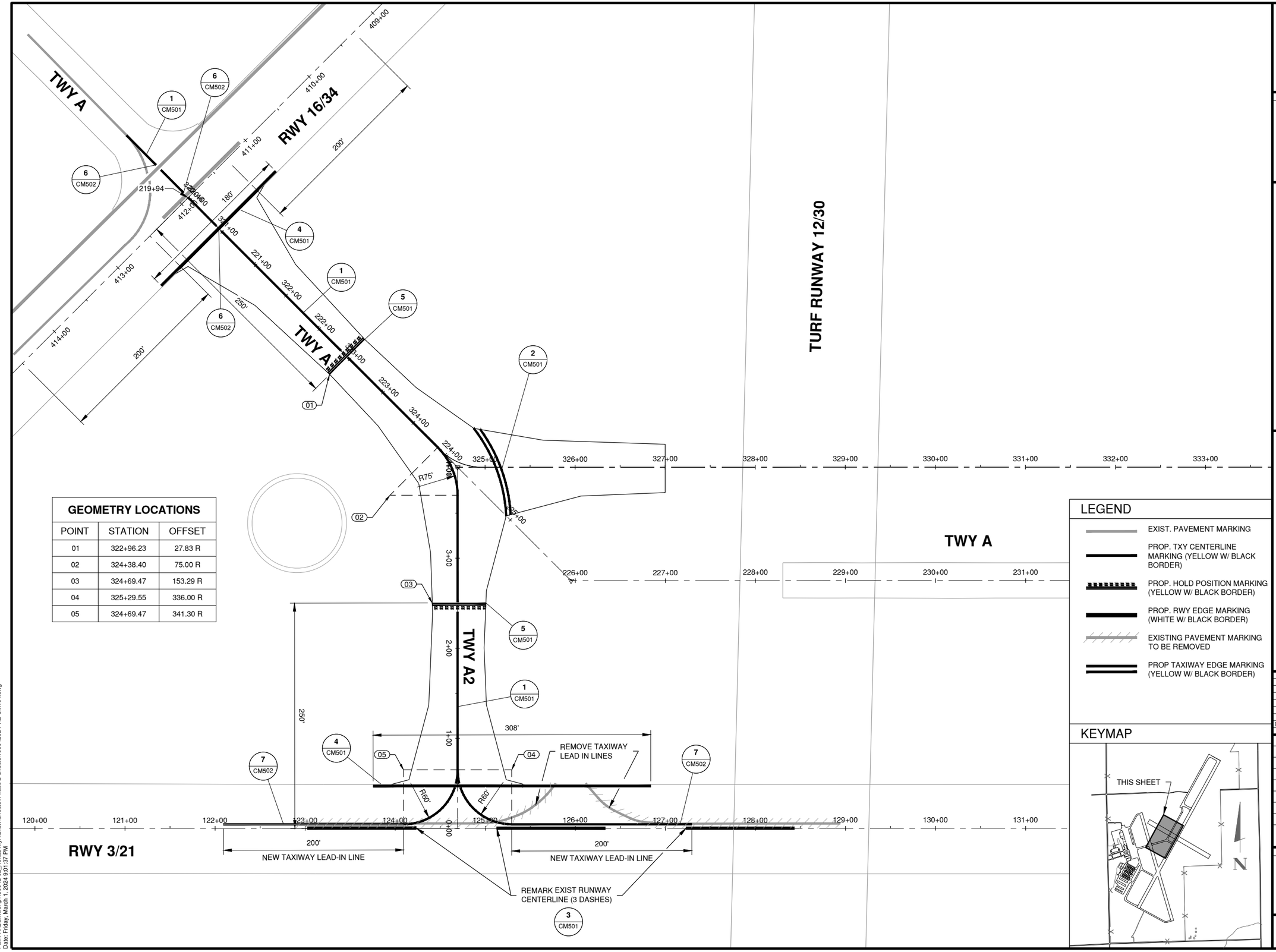
SHEET TITLE

STAKING PLAN 2

CS102

SHEET 25 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CS101.dwg
Date: Friday, March 1, 2024 9:01:26 PM



GEOMETRY LOCATIONS		
POINT	STATION	OFFSET
01	322+96.23	27.83 R
02	324+38.40	75.00 R
03	324+69.47	153.29 R
04	325+29.55	336.00 R
05	324+69.47	341.30 R

LEGEND

- EXIST. PAVEMENT MARKING
- PROP. TXY CENTERLINE MARKING (YELLOW W/ BLACK BORDER)
- PROP. HOLD POSITION MARKING (YELLOW W/ BLACK BORDER)
- PROP. RWY EDGE MARKING (WHITE W/ BLACK BORDER)
- EXISTING PAVEMENT MARKING TO BE REMOVED
- PROP TAXIWAY EDGE MARKING (YELLOW W/ BLACK BORDER)

KEYMAP

CMT

License No. 184-000613

CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CM101.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH
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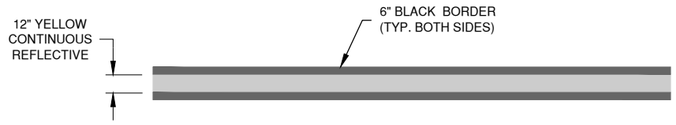
SHEET TITLE

PAVEMENT MARKING PLAN

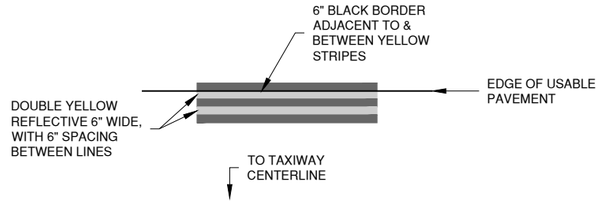
CM101

SHEET 26 OF 57

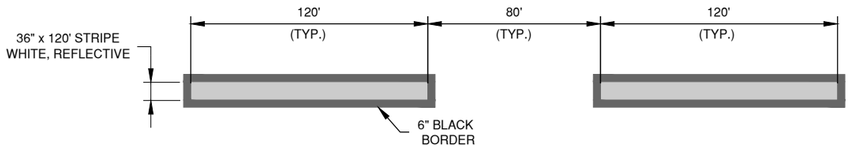
Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CM101.dwg
Date: Friday, March 1, 2024 9:01:37 PM



1 TAXIWAY CENTERLINE DETAIL
N.T.S.



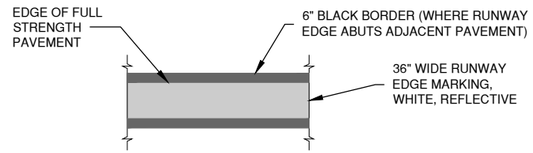
2 TAXIWAY EDGE MARKING
N.T.S.



3 RUNWAY CENTERLINE, DASHED
N.T.S. (360 SF WHITE, 124 SF BLACK PER EACH FULL LENGTH DASH)

RUNWAY CENTERLINE NOTE

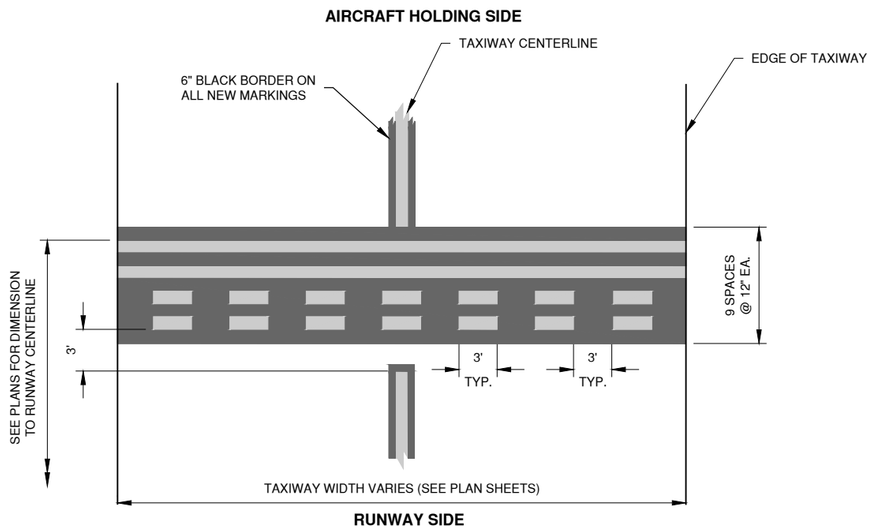
1. THE DISTANCE BETWEEN STRIPES SHALL BE 80' OR AS NOTED ON THE PROPOSED MARKING SHEETS.
2. CENTERLINE STRIPES ARE CENTERED ABOUT THE RUNWAY CENTERLINE.



4 RUNWAY EDGE, CONTINUOUS
N.T.S.

MARKING NOTES

1. ALL NEW AIRFIELD PAVEMENT MARKINGS SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
2. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.



5 RUNWAY HOLDING POSITION
N.T.S.

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
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DESIGNED BY:	EMH
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SHEET TITLE

PAVEMENT MARKING DETAIL 1

CM501

SHEET 27 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CM500.dwg
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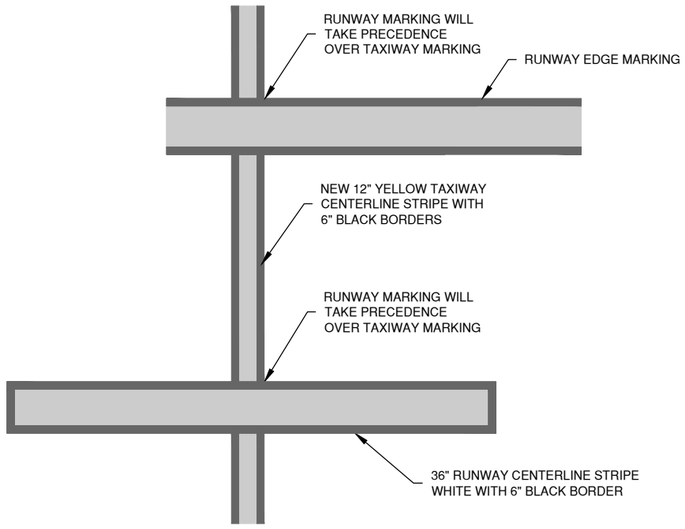
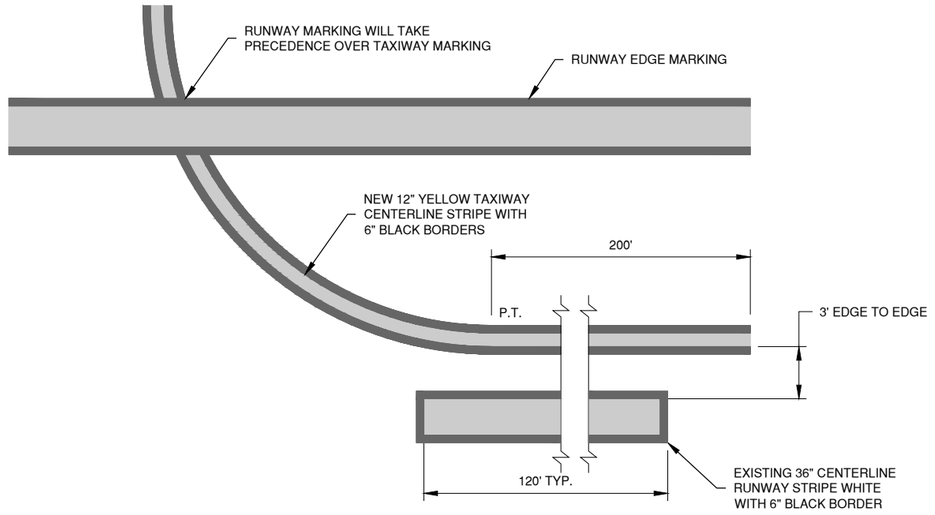


6 TAXIWAY CENTERLINE MARKING CROSSING RUNWAY MARKING
N.T.S.



7 TAXIWAY CENTERLINE MARKING - TRANSITION TO RUNWAY
N.T.S.

MARKING NOTES

1. ALL NEW AIRFIELD PAVEMENT MARKINGS SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
2. BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
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PAVEMENT MARKING DETAIL 2

CM502

SHEET 28 OF 57

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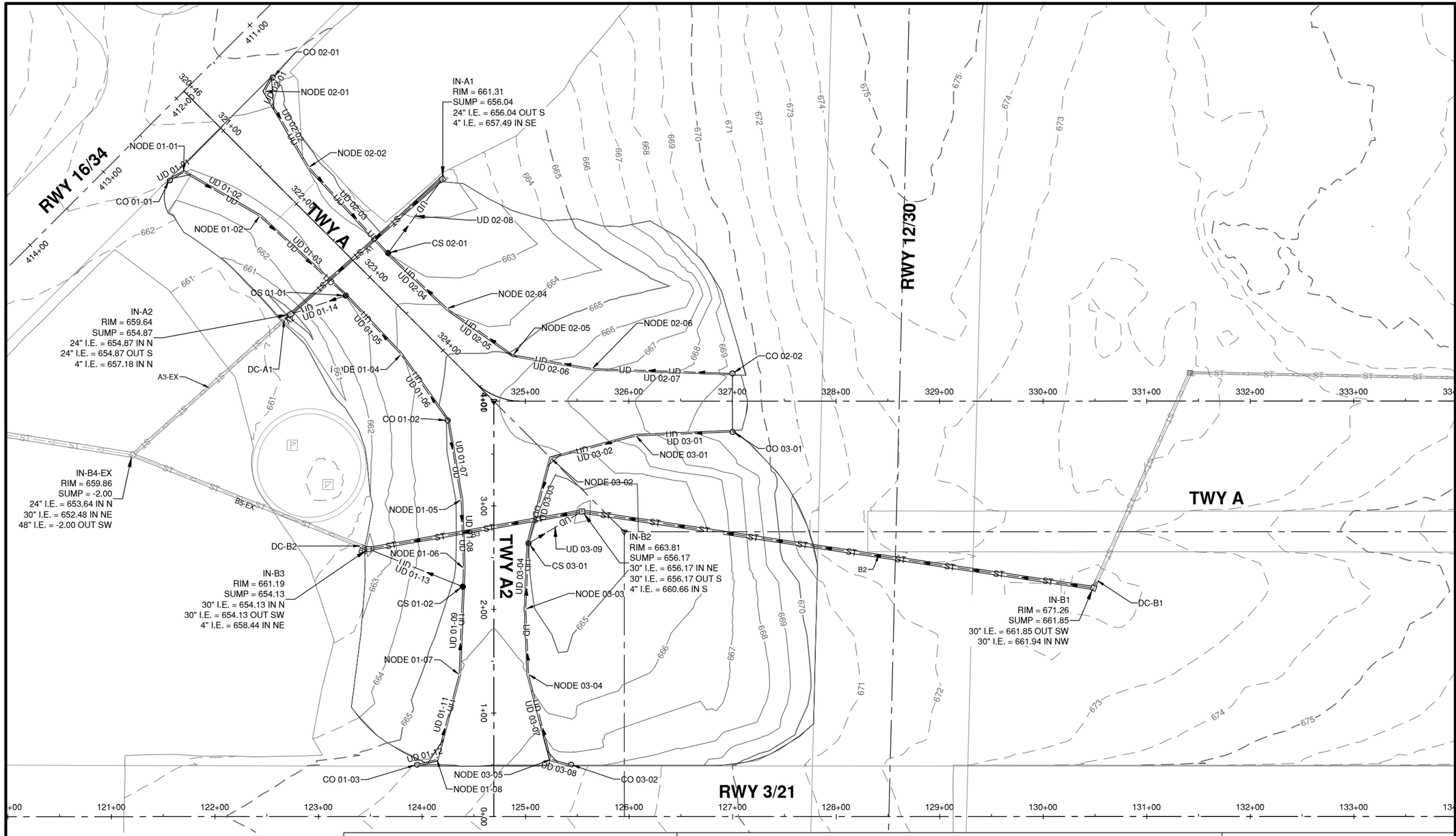


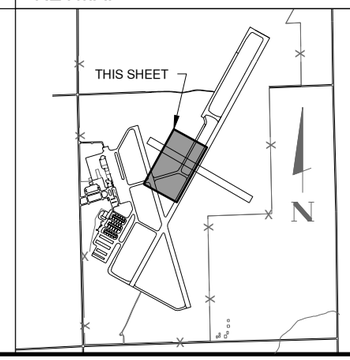
NOTES

1. CONTRACTOR SHALL FIELD VERIFY DEPTHS OF EXISTING STORM SEWER PIPES AND STRUCTURES AT POINTS OF CONNECTION PRIOR TO PRECASTING STRUCTURES OR INSTALLING PIPE.

LEGEND

- NEW PAVEMENT EDGE
- 589 — PROPOSED CONTOUR
- UD — PROPOSED UNDERDRAIN LINE
- ST — PROPOSED STORM SEWER LINE
- UD — EXISTING UNDERDRAIN LINE
- ST — EXISTING STORM SEWER LINE
- CO — PROPOSED UNDERDRAIN CLEANOUT
- CB — PROPOSED STORM SEWER INLET
- MH — PROPOSED MANHOLE
- CS — PROPOSED COLLECTION STRUCTURE

KEYMAP



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N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CU101.DWG
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SHEET TITLE

GRADING & DRAINAGE PLAN

CU101

SHEET 29 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CU101.dwg
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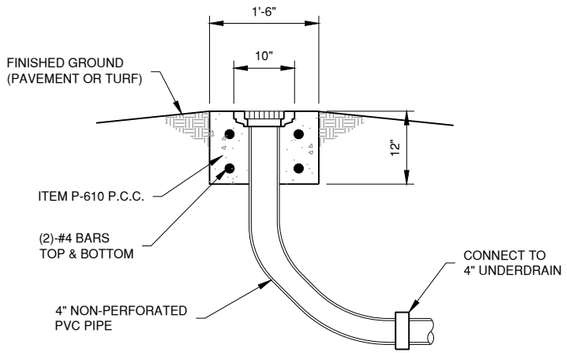
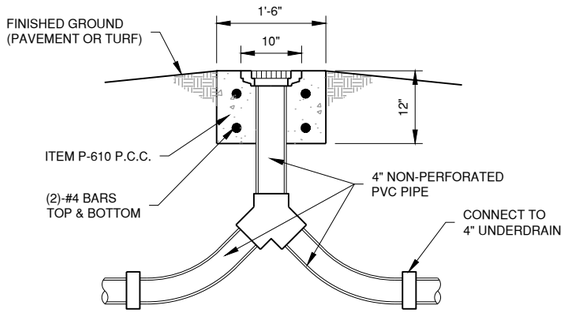


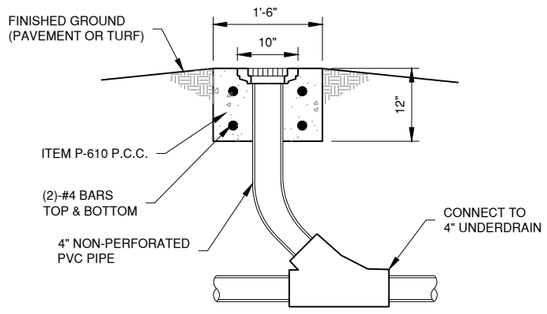
SIDE VIEW

1 UNDERDRAIN CLEAN-OUT - TYPE 1
N.T.S.



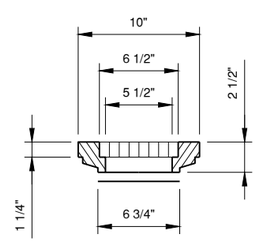
SIDE VIEW

2 UNDERDRAIN CLEAN-OUT - TYPE 2
N.T.S.



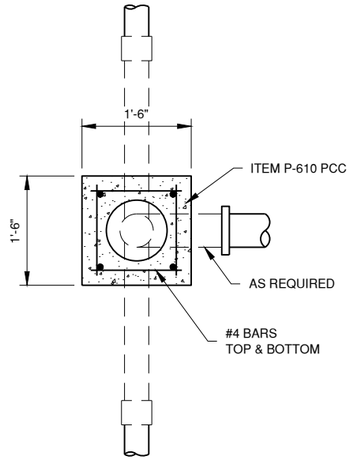
SIDE VIEW

3 UNDERDRAIN CLEAN-OUT - TYPE 3
N.T.S.



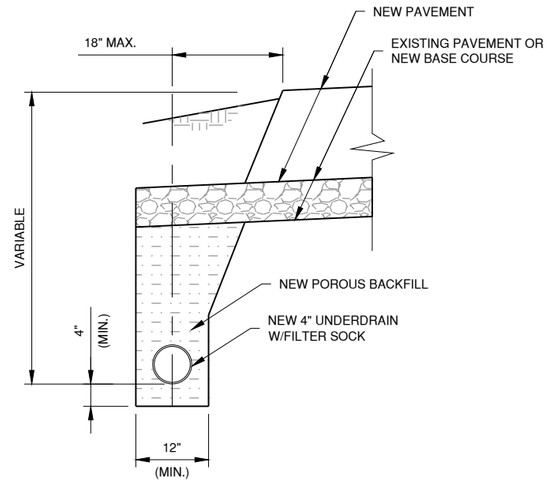
CAST IRON FRAME & COVER
(SIMILAR TO NEENAH R-6013 OR
APPROVED EQUAL)

FRAME AND COVER



PLAN

4 UNDERDRAIN CLEAN-OUT
N.T.S.



5 UNDERDRAIN ALONG PAVEMENT EDGE
N.T.S.

DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL WHICH WILL AFFECT DRAINAGE.

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CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2:
TAXIWAY A2 & THE
CONNECTING TAXIWAY A TO
RUNWAY 16/34

OWNER

VERMILION REGIONAL
AIRPORT

VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-TBD	
IL. PROJ. NO. DNV-5110	
CMT PROJECT NO:	190042-02-20
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SHEET TITLE

UNDERDRAIN
DETAILS 1

CU501

SHEET 30 OF 57

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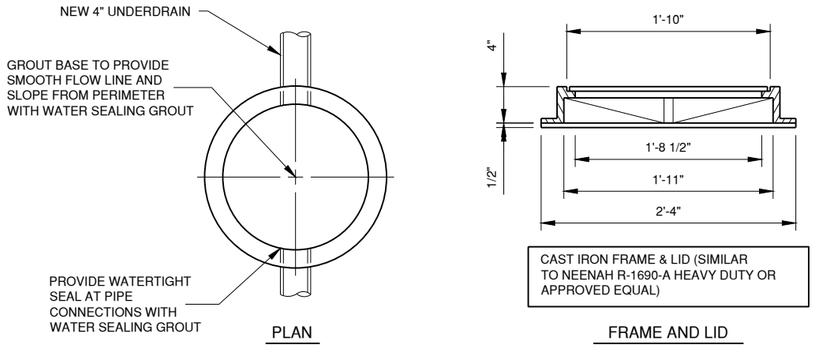
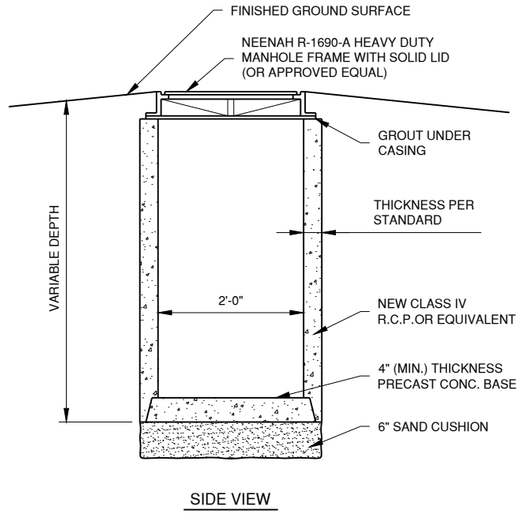
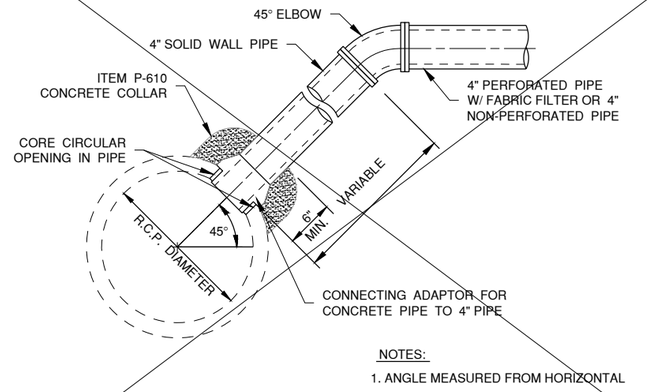


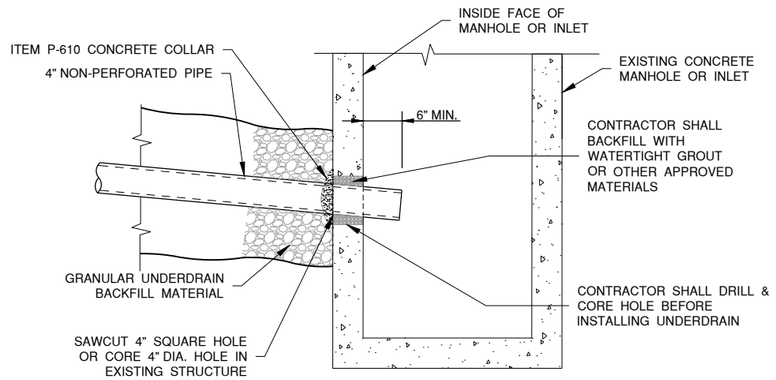


1 UNDERDRAIN COLLECTION STRUCTURE
N.T.S.



2 UNDERDRAIN DIRECT TOP CONNECTION
N.T.S.

N.I.C.



3 UNDERDRAIN DIRECT CONNECTION TO STRUCTURE
N.T.S.

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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SHEET TITLE

UNDERDRAIN DETAILS 2

CU502

SHEET 31 OF 57

Path: K:\Danville\Ap\190042-02_RehabTxyA\Draw\Sheets\Phase 2 Sheets\19004202-PH2-CU500.dwg
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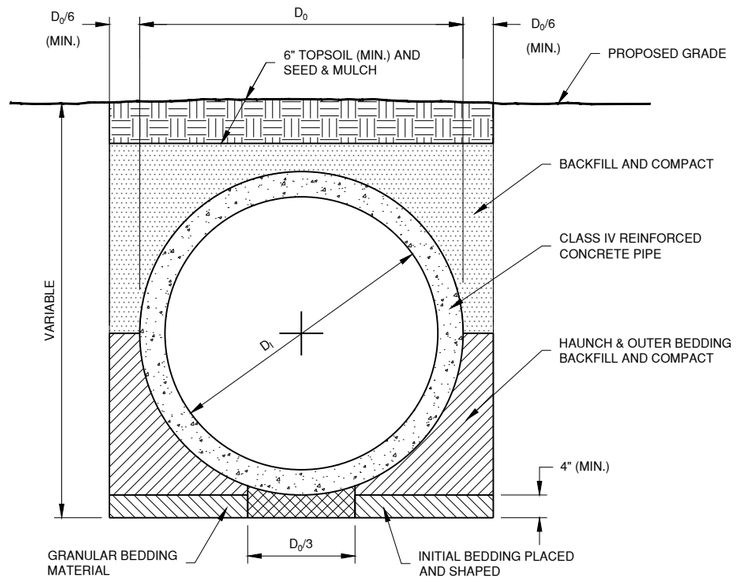
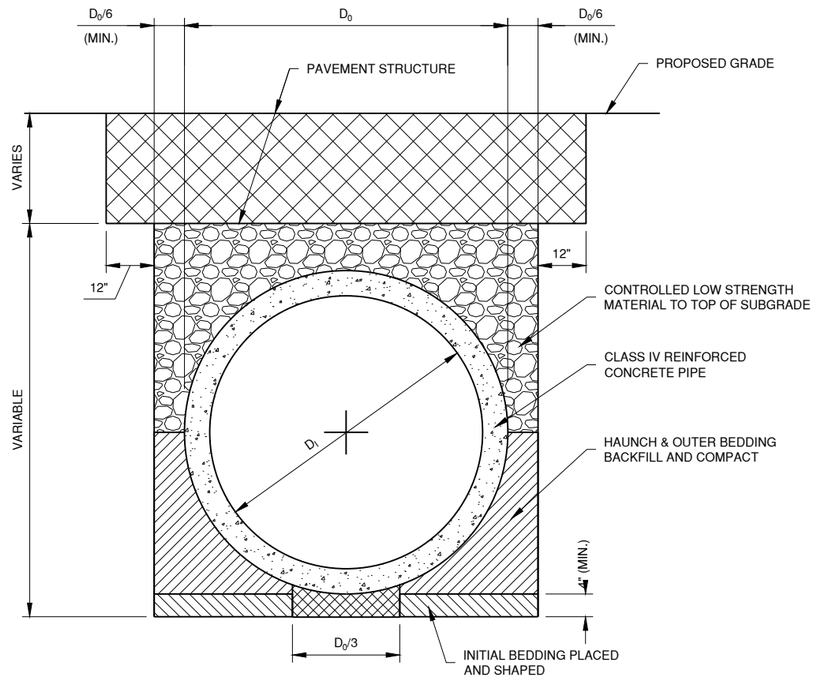


1 STANDARD RCP TRENCH INSTALLATION IN NON-PAVED AREA
N.T.S.



2 STANDARD RCP TRENCH INSTALLATION IN PAVED AREA
N.T.S.

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REALIGN TAXIWAY A PH 2:
TAXIWAY A2 & THE
CONNECTING TAXIWAY A TO
RUNWAY 16/34

OWNER

VERMILION REGIONAL
AIRPORT

VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL. PROJ. NO. DNV-5110	
CMT PROJECT NO:	190042-02-20
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SHEET TITLE

DRAINAGE DETAILS 1

CU503

SHEET 32 OF 57

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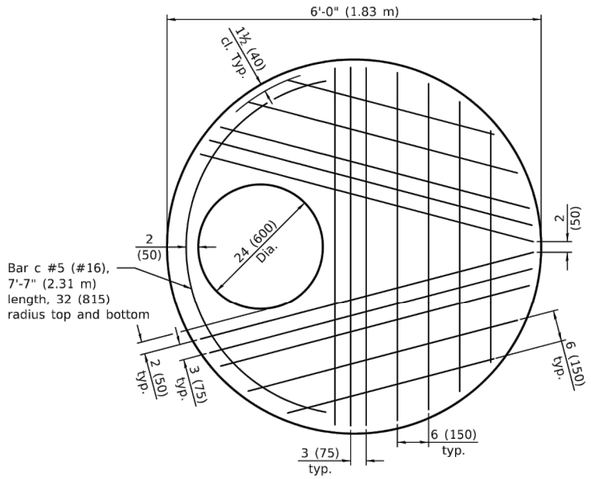
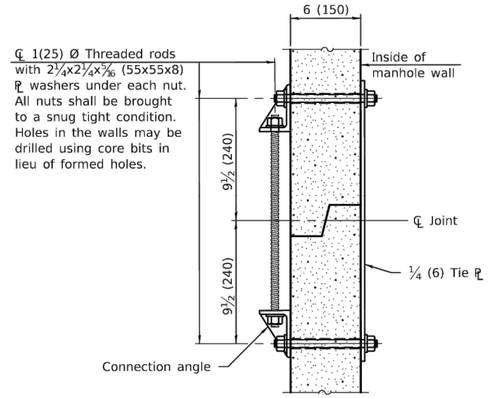
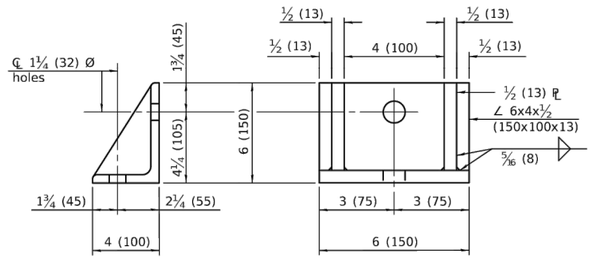


PLAN - FLAT SLAB TOP

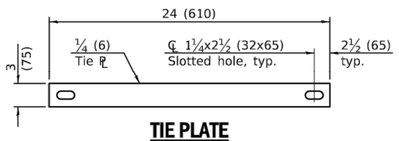
(Showing layout of bottom reinforcement bars and c bars)



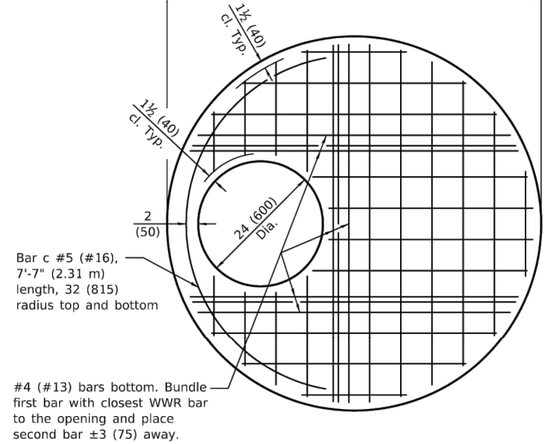
JOINT SPLICE



CONNECTION ANGLE



TIE PLATE



PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	** 0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
Riser	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	8 (200)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-18

PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER

(Sheet 2 of 2)

IDOT STANDARD 602402-02

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CAD DWG FILE:	19004202-PH2-CU500.DWG
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SHEET TITLE

DRAINAGE STRUCTURES 1

CU504

SHEET 33 OF 57

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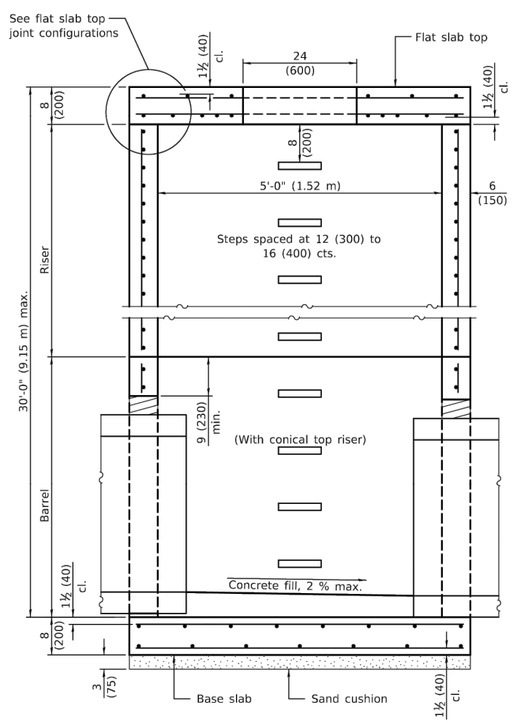
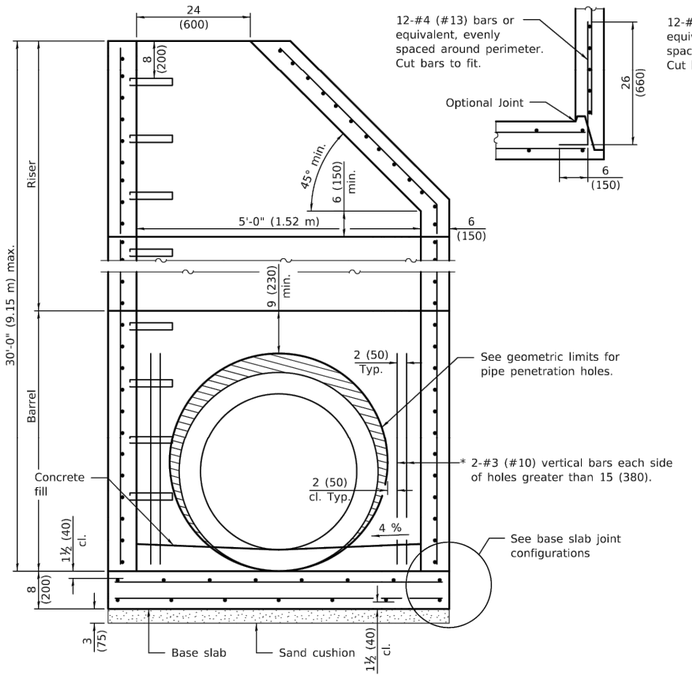


SECTION PARALLEL TO PIPE
(Without conical top riser)



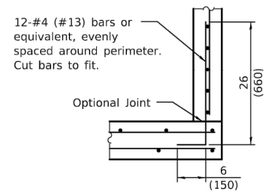
SECTION PERPENDICULAR TO PIPE
(With conical top riser)

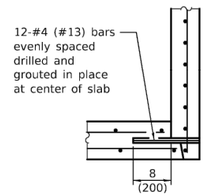
* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.

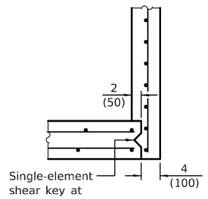
FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

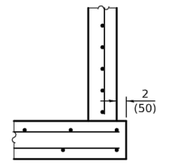
GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

1. A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).
2. A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.
5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).
6. Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.

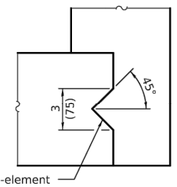








BASE SLAB JOINT CONFIGURATIONS



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

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

Illinois Department of Transportation

PASSED March 1, 2019
ENGINEER OF POLICY AND PROCEDURES
APPROVED March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-18

DATE	REVISIONS
3-1-19	Moved wall reinforcement from
	inside face to middle.
1-1-19	Expanded / refined reinforcement
	options. Increased manhole depths.

PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER
(Sheet 1 of 2)

IDOT STANDARD 602402-02

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Date: Friday, March 1, 2024 9:02:09 PM

CMT

License No. 184-000613

CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CU500.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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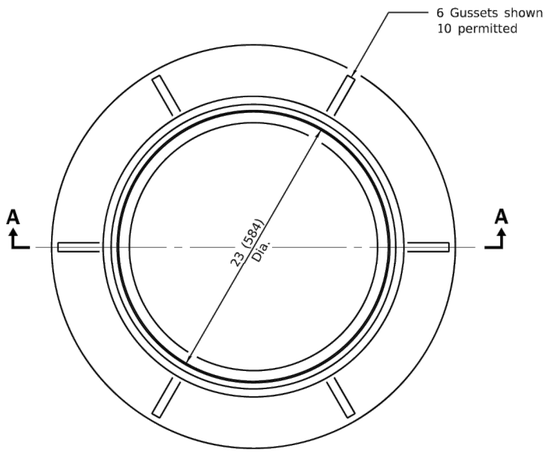
SHEET TITLE

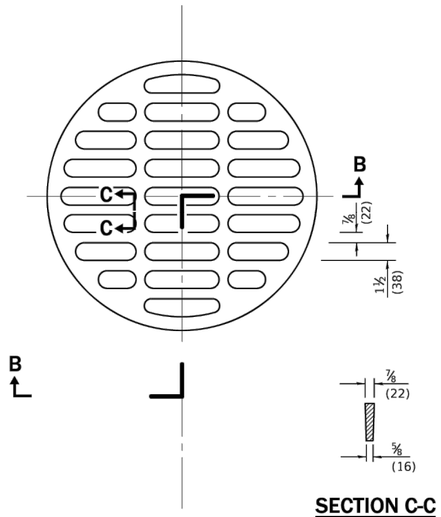
DRAINAGE STRUCTURES 2

CU505

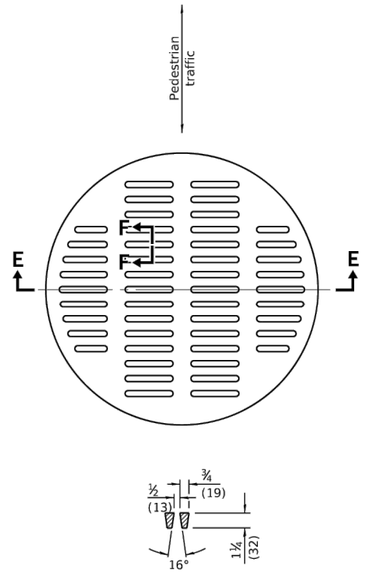
SHEET 34 OF 57



CAST FRAME



SECTION C-C



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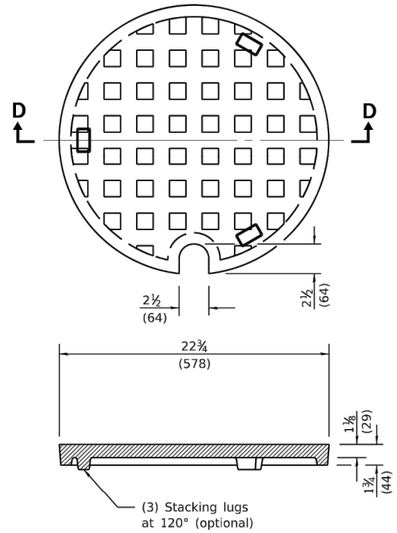
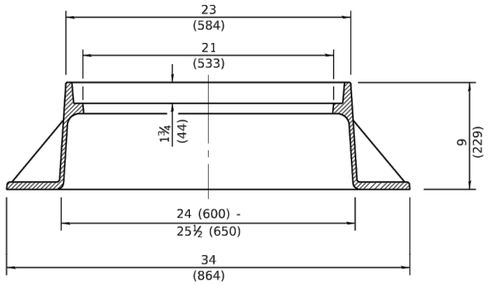
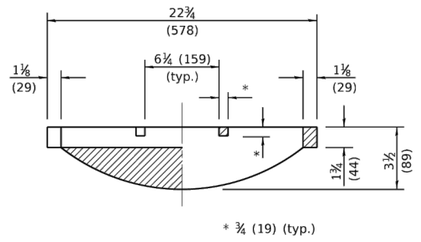


SECTION D-D

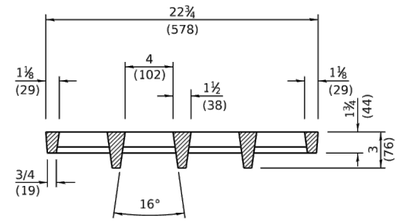


SECTION A-A
Gray Iron



SECTION B-B

CAST OPEN LID



SECTION E-E

ADA COMPLIANT CAST OPEN LID

CAST CLOSED LID
Gray Iron Lid

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

Illinois Department of Transportation

PASSED January 1, 2015
Michael Brand
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-15	Revised dimensioning of
	frame. Added ADA compliant
	open lid.
1-1-09	Switched units to
	English (metric).

FRAME AND LIDS TYPE 1

IDOT STANDARD 604001-04

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CU500.DWG
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SHEET TITLE
DRAINAGE STRUCTURES 3

CU506

STRUCTURE TABLE
STORM SEWER

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
DC-A1	RIM = 657.19 SUMP = N/A A2 INV IN = 654.82 A3-EX INV OUT = 654.82	TWY A STA 322+70.84 OFFSET 87.40 R
DC-B1	RIM = 664.96 SUMP = N/A Pipe - (117) INV IN = 662.01 B1 INV OUT = 662.01	TWY A STA 330+52.07 OFFSET 173.09 R
DC-B2	RIM = 657.02 SUMP = N/A B4 INV IN = 654.08 B5-EX INV OUT = 654.08	TWY A STA 324+69.47 OFFSET 189.83 R
IN-A1	RIM = 661.31 SUMP = 656.04 UD 02-08 INV IN = 657.49 A1 INV OUT = 656.04	TWY A STA 322+82.74 OFFSET -116.49 L
IN-A2	RIM = 659.64 SUMP = 654.87 A1 INV IN = 654.87 UD 01-14 INV IN = 657.18 A2 INV OUT = 654.87	TWY A STA 322+71.31 OFFSET 79.42 R
IN-B1	RIM = 671.26 SUMP = 661.85 B1 INV IN = 661.94 B2 INV OUT = 661.85	TWY A STA 330+48.80 OFFSET 180.39 R
IN-B2	RIM = 663.81 SUMP = 656.17 B2 INV IN = 656.17 UD 03-09 INV IN = 660.66 B3 INV OUT = 656.17	TWY A STA 325+54.67 OFFSET 106.45 R
IN-B3	RIM = 661.19 SUMP = 654.13 B3 INV IN = 654.13 UD 01-13 INV IN = 658.44 B4 INV OUT = 654.13	TWY A STA 324+69.47 OFFSET 187.13 R
IN-B4-EX	RIM = 659.86 SUMP = -2.00 A3-EX INV IN = 653.64 B5-EX INV IN = 652.48 Pipe - (140) INV OUT = -2.00	TWY A STA 322+59.41 OFFSET 283.30 R

PIPE SCHEDULE
STORM SEWER

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
A1	IN-A1	IN-A2	656.04	654.87	192	0.60%	CONCRETE PIPE - 24"
A2	IN-A2	DC-A1	654.87	654.82	6	0.60%	CONCRETE PIPE - 24"
A3-EX	DC-A1	IN-B4-EX	654.82	653.64	194	0.60%	CONCRETE PIPE - 24"
B1	DC-B1	IN-B1	662.01	661.94	6	0.92%	CONCRETE PIPE - 30"
B2	IN-B1	IN-B2	661.85	656.17	496	1.14%	CONCRETE PIPE - 30"
B3	IN-B2	IN-B3	656.17	654.13	205	0.97%	CONCRETE PIPE - 30"
B4	IN-B3	DC-B2	654.13	654.08	6	0.67%	CONCRETE PIPE - 30"
B5-EX	DC-B2	IN-B4-EX	654.08	652.48	235	0.67%	CONCRETE PIPE - 30"

STRUCTURE TABLE
PH2-UD-01

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
CO 01-01	RIM = 662.99 SUMP = 659.45 UD 01-01 INV OUT = 659.95	TWY A STA 320+97.43 OFFSET 70.40 R
CO 01-02	RIM = 665.08 SUMP = 661.32 UD 01-07 INV OUT = 661.32 UD 01-06 INV OUT = 661.34	TWY A STA 324+51.06 OFFSET 44.67 R
CO 01-03	RIM = 665.95 SUMP = 662.92 UD 01-12 INV OUT = 662.92	TWY A2 STA 0+50.22 OFFSET -74.11 L
CS 01-01	RIM = 663.03 SUMP = 657.75 UD 01-03 INV IN = 657.85 UD 01-05 INV IN = 659.78 UD 01-14 INV OUT = 657.75	TWY A STA 322+96.23 OFFSET 29.01 R
CS 01-02	RIM = 665.46 SUMP = 659.42 UD 01-09 INV IN = 661.04 UD 01-10 INV IN = 659.70 UD 01-13 INV OUT = 659.42	TWY A2 STA 2+21.99 OFFSET -30.02 L
NODE 01-01	RIM = 660.17 SUMP = N/A UD 01-01 INV IN = 659.80 UD 01-02 INV OUT = 659.80	TWY A STA 321+01.46 OFFSET 55.23 R
NODE 01-02	RIM = 659.33 SUMP = N/A UD 01-02 INV IN = 658.96 UD 01-03 INV OUT = 658.96	TWY A STA 321+83.45 OFFSET 33.49 R
NODE 01-04	RIM = 660.92 SUMP = N/A UD 01-06 INV IN = 660.56 UD 01-05 INV OUT = 660.56	TWY A STA 323+74.32 OFFSET 31.50 R
NODE 01-05	RIM = 660.91 SUMP = N/A UD 01-07 INV IN = 660.54 UD 01-08 INV OUT = 660.54	TWY A2 STA 3+05.85 OFFSET -31.50 L
NODE 01-06	RIM = 660.25 SUMP = N/A UD 01-08 INV IN = 659.88 UD 01-10 INV OUT = 659.88	TWY A2 STA 2+39.98 OFFSET -29.29 L
NODE 01-07	RIM = 662.25 SUMP = N/A UD 01-11 INV IN = 661.88 UD 01-09 INV OUT = 661.88	TWY A2 STA 1+37.23 OFFSET -33.49 L
NODE 01-08	RIM = 663.08 SUMP = N/A UD 01-12 INV IN = 662.71 UD 01-11 INV OUT = 662.71	TWY A2 STA 0+55.23 OFFSET -55.23 L

STRUCTURE TABLE
PH2-UD-02

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
CO 02-01	RIM = 664.50 SUMP = 655.06 UD 02-01 INV OUT = 661.06	TWY A STA 320+97.53 OFFSET -70.03 L
CO 02-02	RIM = 669.23 SUMP = 664.11 UD 02-07 INV OUT = 664.11	TWY A STA 326+99.99 OFFSET -26.77 L
CS 02-01	RIM = 663.02 SUMP = 657.89 UD 02-04 INV IN = 658.90 UD 02-03 INV IN = 658.86 UD 02-08 INV OUT = 658.37	TWY A STA 322+96.23 OFFSET -29.00 L
NODE 02-01	RIM = 661.25 SUMP = ??? UD 02-01 INV IN = 660.88 UD 02-02 INV OUT = 660.88	TWY A STA 321+01.46 OFFSET -55.23 L
NODE 02-02	RIM = 660.40 SUMP = N/A UD 02-02 INV IN = 660.03 UD 02-03 INV OUT = 660.03	TWY A STA 321+83.45 OFFSET -33.49 L
NODE 02-04	RIM = 660.38 SUMP = N/A UD 02-05 INV IN = 660.01 UD 02-04 INV OUT = 660.01	TWY A STA 323+74.32 OFFSET -31.50 L
NODE 02-05	RIM = 661.48 SUMP = N/A UD 02-06 INV IN = 661.11 UD 02-05 INV OUT = 661.11	TWY A STA 324+88.04 OFFSET -44.61 L
NODE 02-06	RIM = 662.58 SUMP = N/A UD 02-07 INV IN = 662.21 UD 02-06 INV OUT = 662.21	TWY A STA 325+64.62 OFFSET -31.50 L

STRUCTURE TABLE
PH2-UD-03

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
CO 03-01	RIM = 668.94 SUMP = 664.79 UD 03-01 INV OUT = 664.79	TWY A STA 327+00.06 OFFSET 29.59 R
CO 03-02	RIM = 667.90 SUMP = 665.00 UD 03-08 INV OUT = 665.00	TWY A STA 325+44.05 OFFSET 350.90 R
CS 03-01	RIM = 665.27 SUMP = 661.28 UD 03-03 INV IN = 661.36 UD 03-04 INV IN = 661.35 UD 03-09 INV OUT = 661.28	TWY A STA 325+02.96 OFFSET 137.23 R
NODE 03-01	RIM = 663.42 SUMP = N/A UD 03-01 INV IN = 663.06 UD 03-02 INV OUT = 663.06	TWY A STA 326+06.70 OFFSET 33.49 R
NODE 03-02	RIM = 662.58 SUMP = N/A UD 03-02 INV IN = 662.21 UD 03-03 INV OUT = 662.19	TWY A STA 325+24.70 OFFSET 55.23 R
NODE 03-03	RIM = 662.65 SUMP = N/A UD 03-06 INV IN = 662.29 UD 03-04 INV OUT = 662.29	TWY A STA 325+00.37 OFFSET 200.50 R
NODE 03-04	RIM = 663.64 SUMP = N/A UD 03-07 INV IN = 663.27 UD 03-06 INV OUT = 663.27	TWY A STA 325+02.96 OFFSET 263.77 R
NODE 03-05	RIM = 664.96 SUMP = N/A UD 03-08 INV IN = 664.59 UD 03-07 INV OUT = 664.59	TWY A STA 325+24.70 OFFSET 345.77 R

PIPE SCHEDULE
PH2-UD-01

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
UD 01-01	CO 01-01	NODE 01-01	659.95	659.80	14	0.96%	PVC PIPE - 4"
UD 01-02	NODE 01-01	NODE 01-02	659.80	658.96	85	0.99%	PVC PIPE - 4"
UD 01-03	NODE 01-02	CS 01-01	658.96	657.85	111	0.98%	PVC PIPE - 4"
UD 01-05	NODE 01-04	CS 01-01	660.56	659.78	76	0.99%	PVC PIPE - 4"
UD 01-06	CO 01-02	NODE 01-04	661.34	660.56	76	1.01%	PVC PIPE - 4"
UD 01-07	CO 01-02	NODE 01-05	661.32	660.54	76	1.00%	PVC PIPE - 4"
UD 01-08	NODE 01-05	NODE 01-06	660.54	659.88	66	1.00%	PVC PIPE - 4"
UD 01-09	NODE 01-07	CS 01-02	661.88	661.04	83	1.00%	PVC PIPE - 4"
UD 01-10	NODE 01-06	CS 01-02	659.88	659.70	16	1.00%	PVC PIPE - 4"
UD 01-11	NODE 01-08	NODE 01-07	662.71	661.88	85	0.98%	PVC PIPE - 4"
UD 01-12	CO 01-03	NODE 01-08	662.92	662.71	18	1.03%	PVC PIPE - 4"
UD 01-13	CS 01-02	IN-B3	659.42	658.44	94	1.00%	PVC PIPE - 4"
UD 01-14	CS 01-01	IN-A2	657.75	657.18	52	1.01%	PVC PIPE - 4"

PIPE SCHEDULE
PH2-UD-02

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
UD 02-01	CO 02-01	NODE 02-01	661.06	660.88	13	1.16%	PVC PIPE - 4"
UD 02-02	NODE 02-01	NODE 02-02	660.88	660.03	85	1.00%	PVC PIPE - 4"
UD 02-03	NODE 02-02	CS 02-01	660.03	658.86	111	1.04%	PVC PIPE - 4"
UD 02-04	NODE 02-04	CS 02-01	660.01	658.90	76	1.42%	PVC PIPE - 4"
UD 02-05	NODE 02-05	NODE 02-04	661.11	660.01	78	1.41%	PVC PIPE - 4"
UD 02-06	NODE 02-06	NODE 02-05	662.21	661.11	78	1.41%	PVC PIPE - 4"
UD 02-07	CO 02-02	NODE 02-06	664.11	662.21	133	1.41%	PVC PIPE - 4"
UD 02-08	CS 02-01	IN-A1	658.37	657.49	84	0.99%	PVC PIPE - 4"

PIPE SCHEDULE
PH2-UD-03

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
UD 03-01	CO 03-01	NODE 03-01	664.79	663.06	91	1.85%	PVC PIPE - 4"
UD 03-02	NODE 03-01	NODE 03-02	663.06	662.21	85	1.00%	PVC PIPE - 4"
UD 03-03	NODE 03-02	CS 03-01	662.19	661.36	83	0.98%	PVC PIPE - 4"
UD 03-04	NODE 03-03	CS 03-01	662.29	661.35	61	1.48%	PVC PIPE - 4"
UD 03-06	NODE 03-04	NODE 03-03	663.27	662.29	63	1.56%	PVC PIPE - 4"
UD 03-07	NODE 03-05	NODE 03-04	664.59	663.27	85	1.56%	PVC PIPE - 4"
UD 03-08	CO 03-02	NODE 03-05	665.00	664.59	18	2.03%	PVC PIPE - 4"
UD 03-09	CS 03-01	IN-B2	661.28	660.66	56	1.04%	PVC PIPE - 4"

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CONSULTANTS

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL. PROJ. NO. DNV-5110
CMT PROJECT NO: 190042-02-20
CAD DWG FILE: 19004202-PH2-CU600.DWG
DESIGNED BY: EMH
DRAWN BY: CMT
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DRAINAGE PIPE AND STRUCTURE SCHEDULES

CU601

SHEET 36 OF 57

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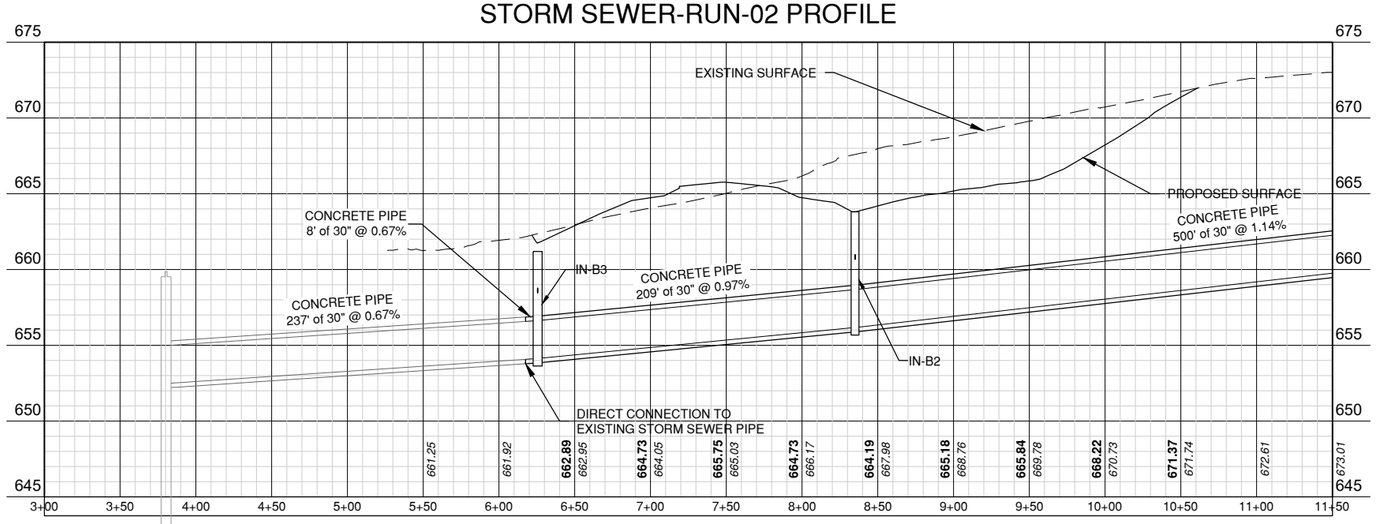

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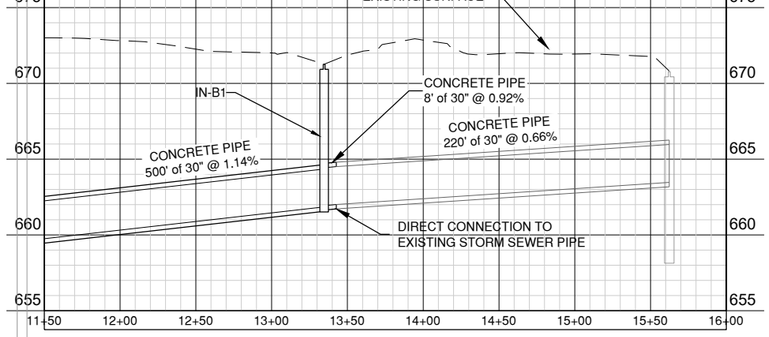

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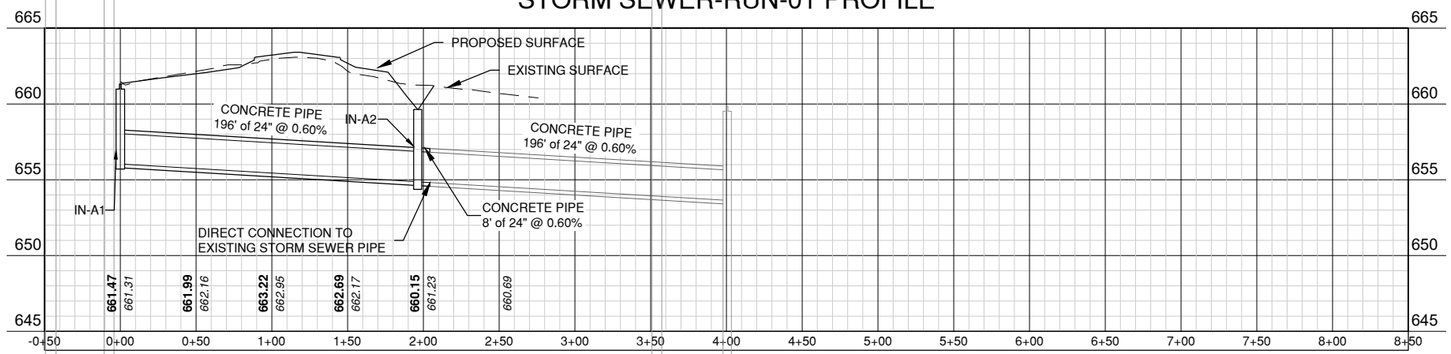

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OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL. PROJ. NO.	DNV-5110
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DESIGNED BY:	EMH
DRAWN BY:	CMT
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STORM SEWER PROFILES

CU801

SHEET 37 OF 57

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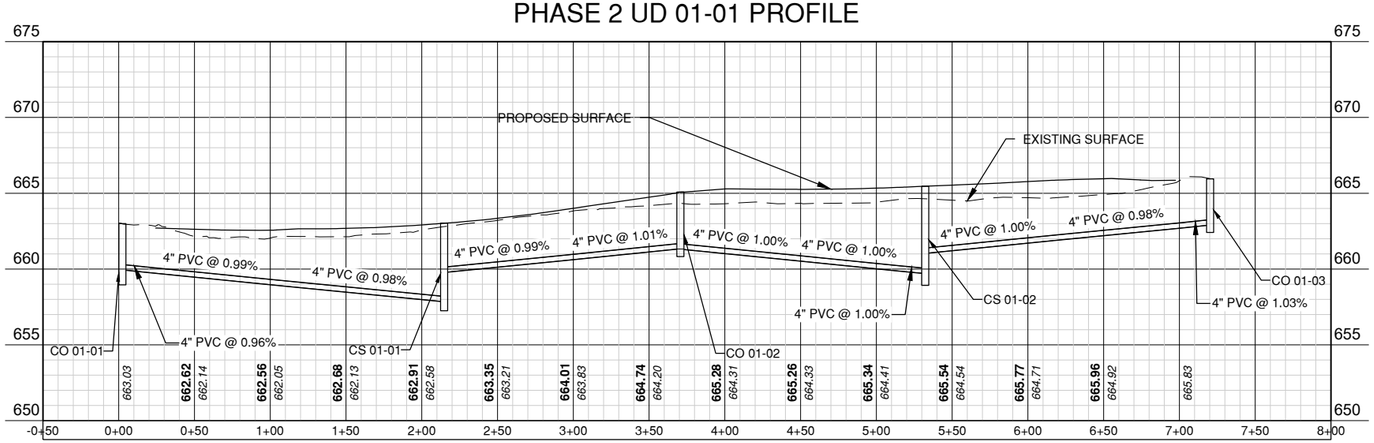

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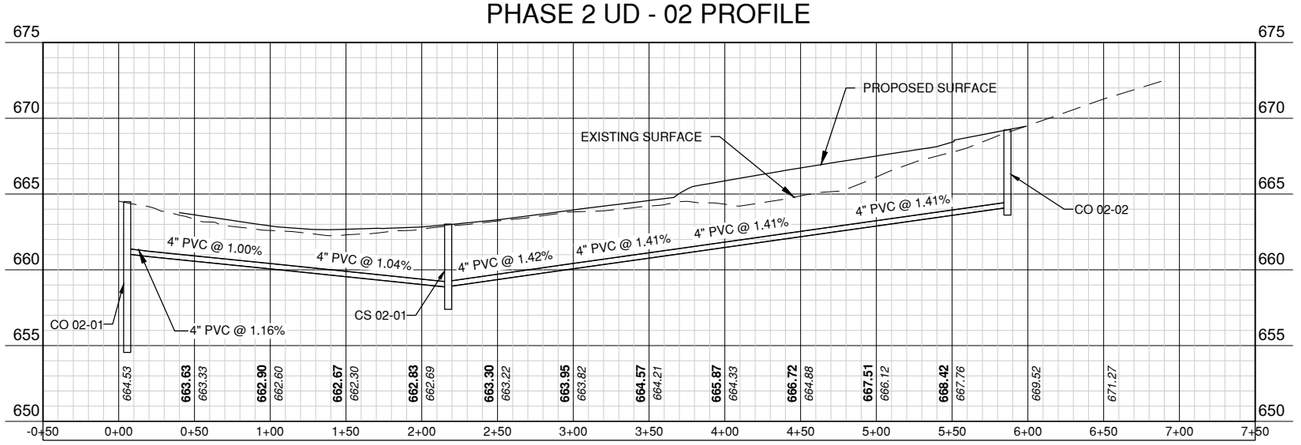
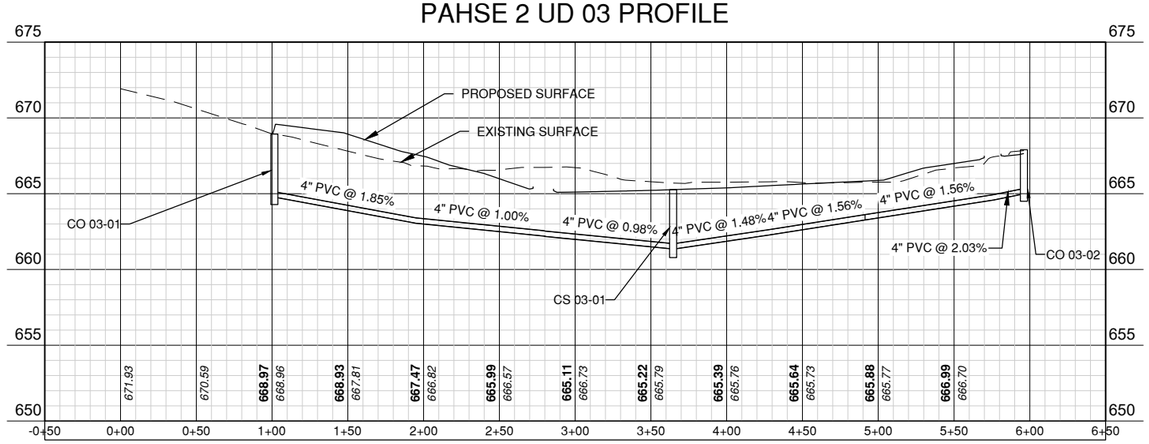


PAHSE 2 UD 03 PROFILE



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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CU800.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

UNDERDRAIN PROFILES

CU802

SHEET 38 OF 57

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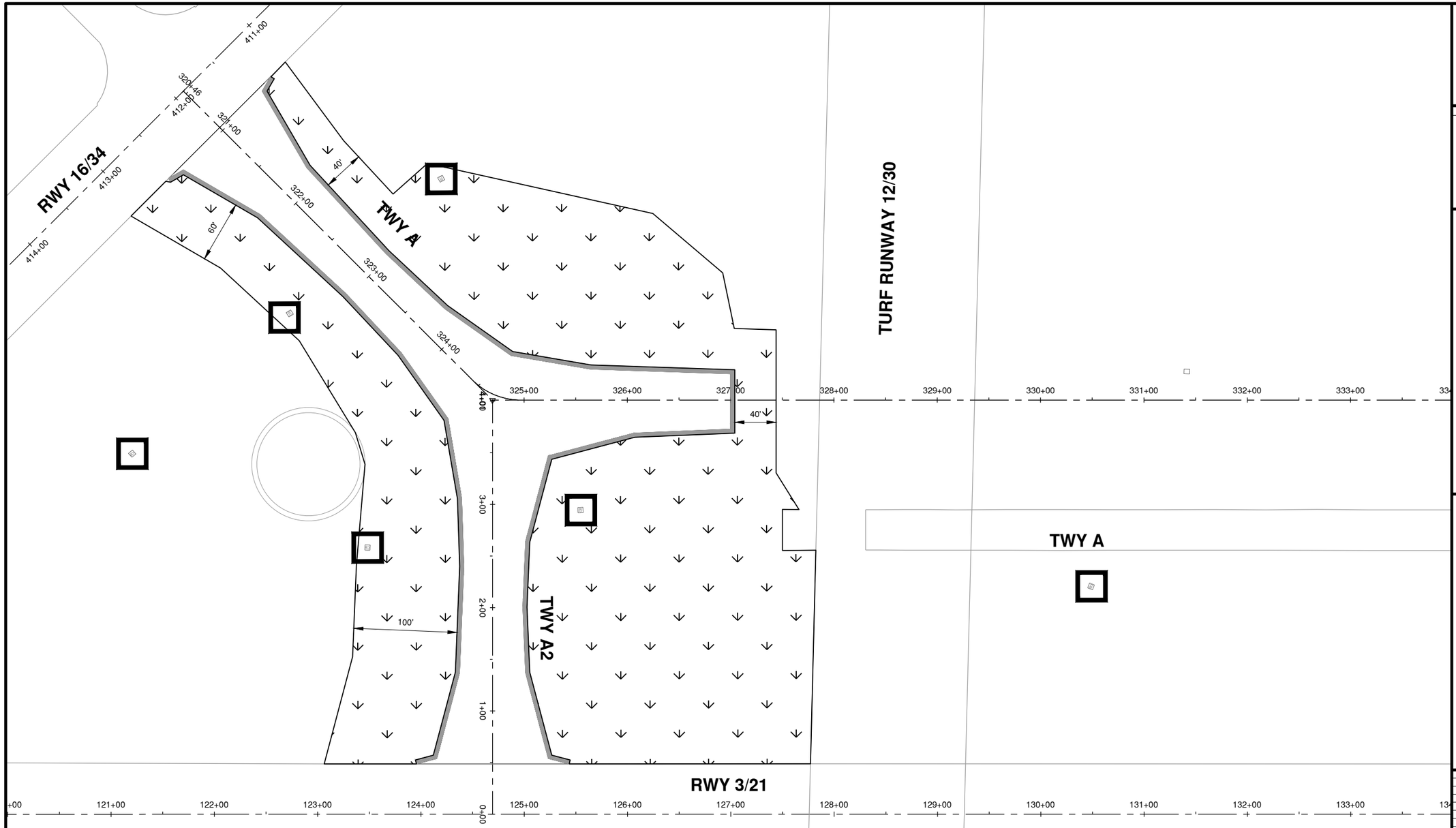


NOTES

LEGEND

SEEDING & MULCHING

SOD (4' TYPICAL WIDTH)

INLET PROTECTION

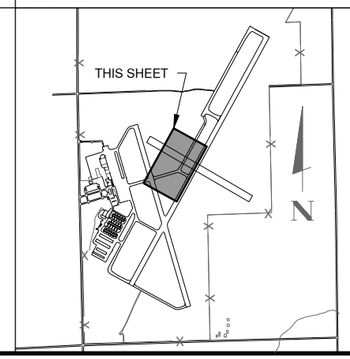
STRAW WATTLES

SF — SILT FENCE

PROPOSED CONTOURS

EXISTING CONTOURS

KEYMAP



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N

0 50' 100'

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
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SHEET TITLE

EROSION CONTROL & TURFING PLAN

LG101

SHEET 39 OF 57

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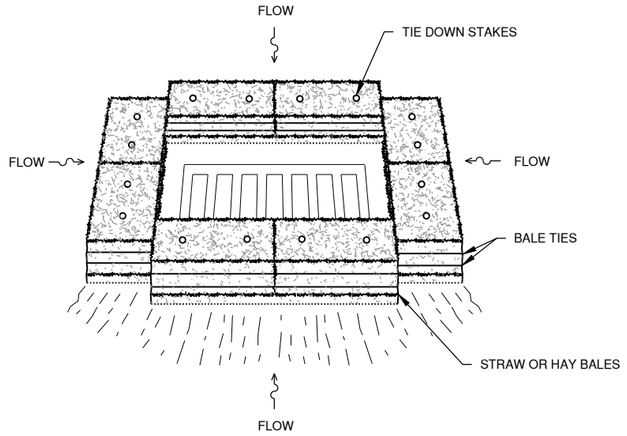
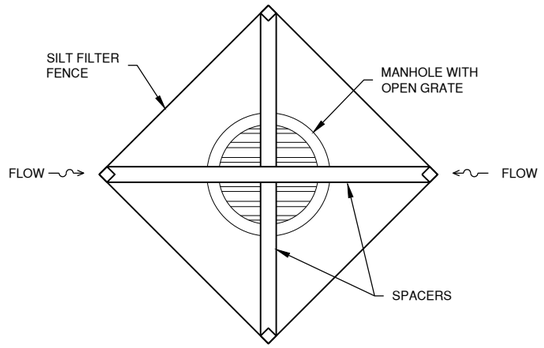
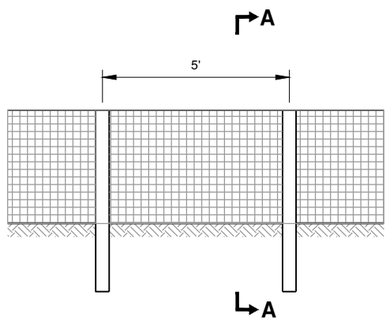
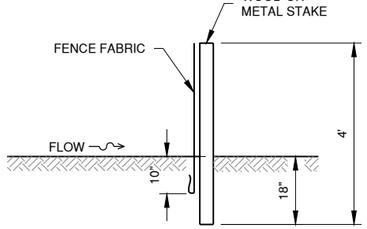




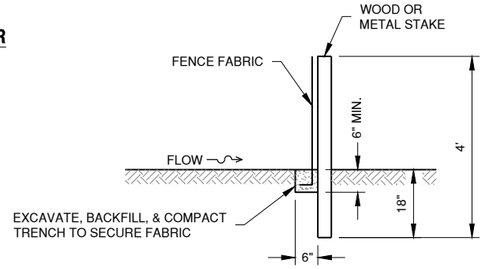
1 INLET PROTECTION
N.T.S.



ELEVATION



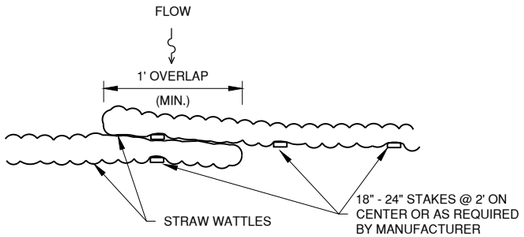
SLICE METHOD



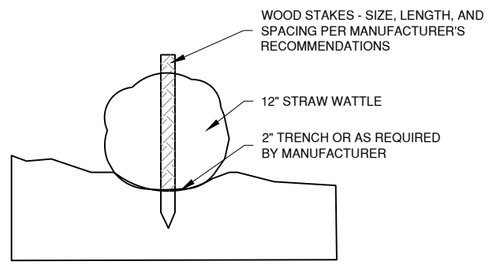
TRENCH METHOD

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER

2 EROSION CONTROL FABRIC FENCE
N.T.S.



PLAN



SECTION

3 STRAW WATTLES
N.T.S.

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-TBD	
IL. PROJ. NO. DNV-5110	
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-LG500.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

EROSION CONTROL DETAILS

LG501

SHEET 40 OF 57

Path: K:\Danville\Ap\190042-02_Rehab\Txy\Draw\Sheets\Phase 2 Sheets\19004202-PH2-LG500.dwg
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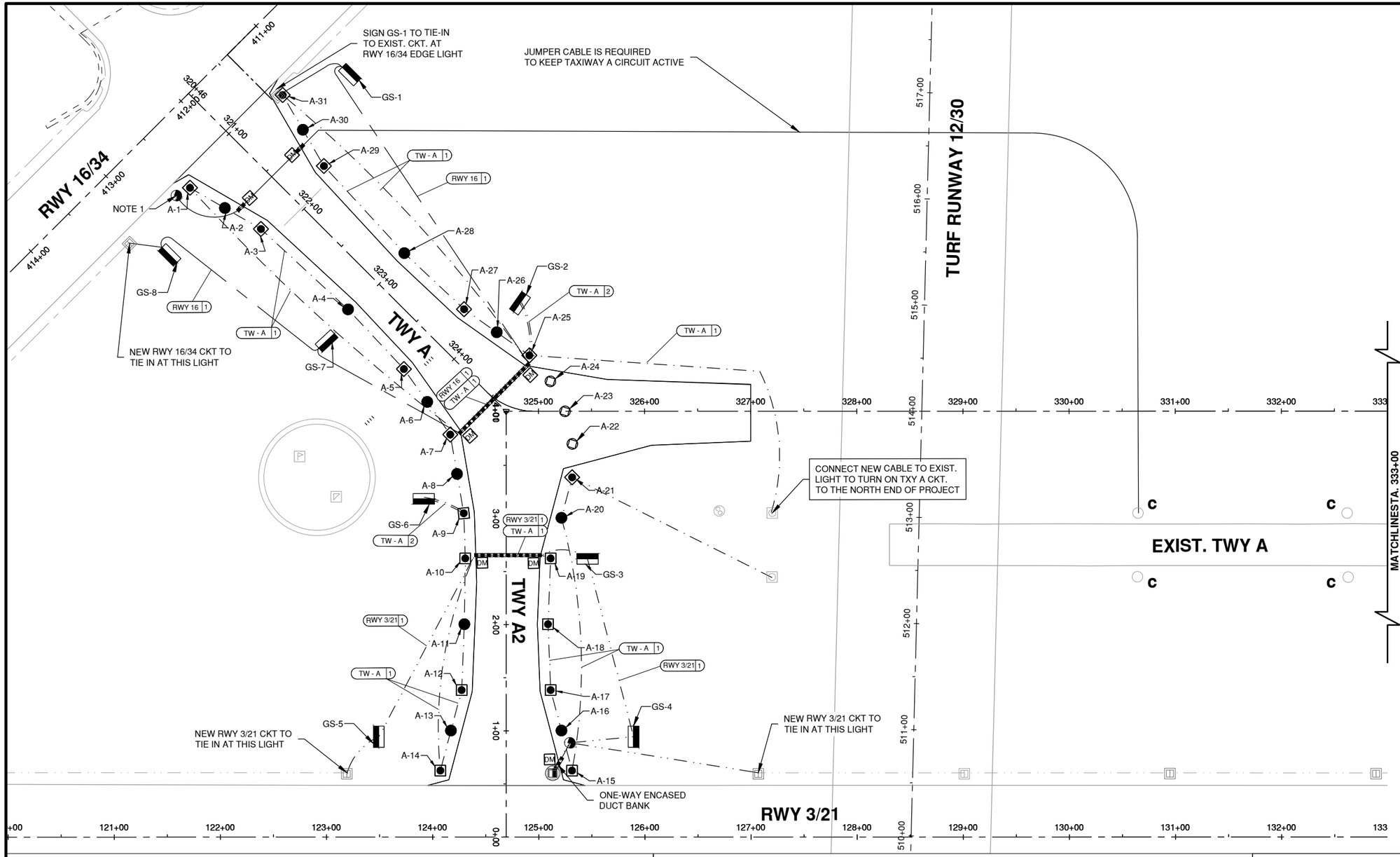


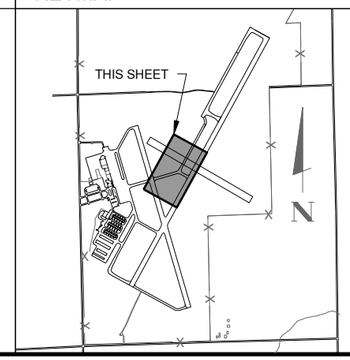
LEGEND

EXISTING	NEW		
		SPLICE CAN	NEW TAXIWAY A CABLE; #8 5KV IN UD
		TAXIWAY GUIDANCE SIGN	NEW RUNWAY 3-21 CABLE; #8 5KV IN UD
		TAXIWAY EDGE LIGHT - STAKE MOUNTED	NEW RUNWAY 16-34 CABLE; #8 5KV IN UD
		TAXIWAY EDGE LIGHT - BASE MOUNTED	EXISTING TAXIWAY A CABLE; #8 5KV IN UD TO REMAIN
		RUNWAY BASE MOUNTED EDGE LIGHT	EXISTING RUNWAY 3-21 CABLE; #8 5KV TO REMAIN
		4-WAY DUCT BANK	EXISTING RUNWAY 16-34 CABLE; #8 5KV TO REMAIN
		RUNWAY EDGE LIGHT - FLUSH MOUNTED	TW - A 1 — CIRCUIT NAME; # OF CABLES
		ELEVATED RETROREFLECTIVE MARKER	
DM	DM	DUCT MARKER	
C		COVER EXIST. LIGHT FIXTURE	

GENERAL NOTES

1. THE CONTRACTOR SHALL MAKE CONNECTION WITH 2/C JUMPER AND EXISTING TAXIWAY A CIRCUIT AT SPLICE CAN.
2. RECONNECT SIGN TO EXISTING RUNWAY CIRCUIT AT THIS LIGHT.
3. CONNECT NEW CIRCUIT TO EXISTING CIRCUIT AT EXISTING LIGHT CAN.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF EXISTING UTILITIES, ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY EXISTING CIRCUIT ROUTING PRIOR TO MAKING ANY FIELD MODIFICATIONS.
5. PRIOR TO INSTALLATION OF NEW CONDUIT AND CABLE. THE CONTRACTOR SHALL VERIFY THE ROUTING OF THE EXISTING AND PROPOSED CIRCUIT TO ENSURE A CONTINUOUS LOOP WILL BE ACHIEVED, COSTS INCIDENTAL TO THE CONDUIT AND CABLE INSTALLATION.
6. REMOVE EXISTING TAXIWAY EDGE LIGHTS ALONG ABANDONED TAXIWAY SECTION. DISCONNECT EXISTING SIGNS FROM CIRCUIT AT SPLICE CAN.
7. PROVIDE NEW TAXIWAY LIGHTS (BASE & STAKE MTD) BUT DON'T CONNECT INTO CIRCUIT UNDER THIS PHASE/PROJECT. CONTRACTOR SHALL PROVIDE L-823 CONNECTORS AT EACH LOCATION AND 4' SLACK CABLE TO CONNECT THE TRANSFORMER AND LIGHT UNDER FUTURE PROJECT.
8. THE AIRPORT SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ELECTRICAL EQUIPMENT.
9. INSTALL COUNTERPOISE AS DETAILED ON SHEET EL501.
10. LIGHTS SHALL BE NO MORE THAN 10', BUT NO LESS THAN 2' FROM THE PAVEMENT EDGE AND IN A STRAIGHT LINE FROM PC TO PT OR TAPER POINT.

KEYMAP



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CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-EL101.DWG
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SHEET TITLE

ELECTRICAL LAYOUT PLAN 1

EL101

SHEET 41 OF 57

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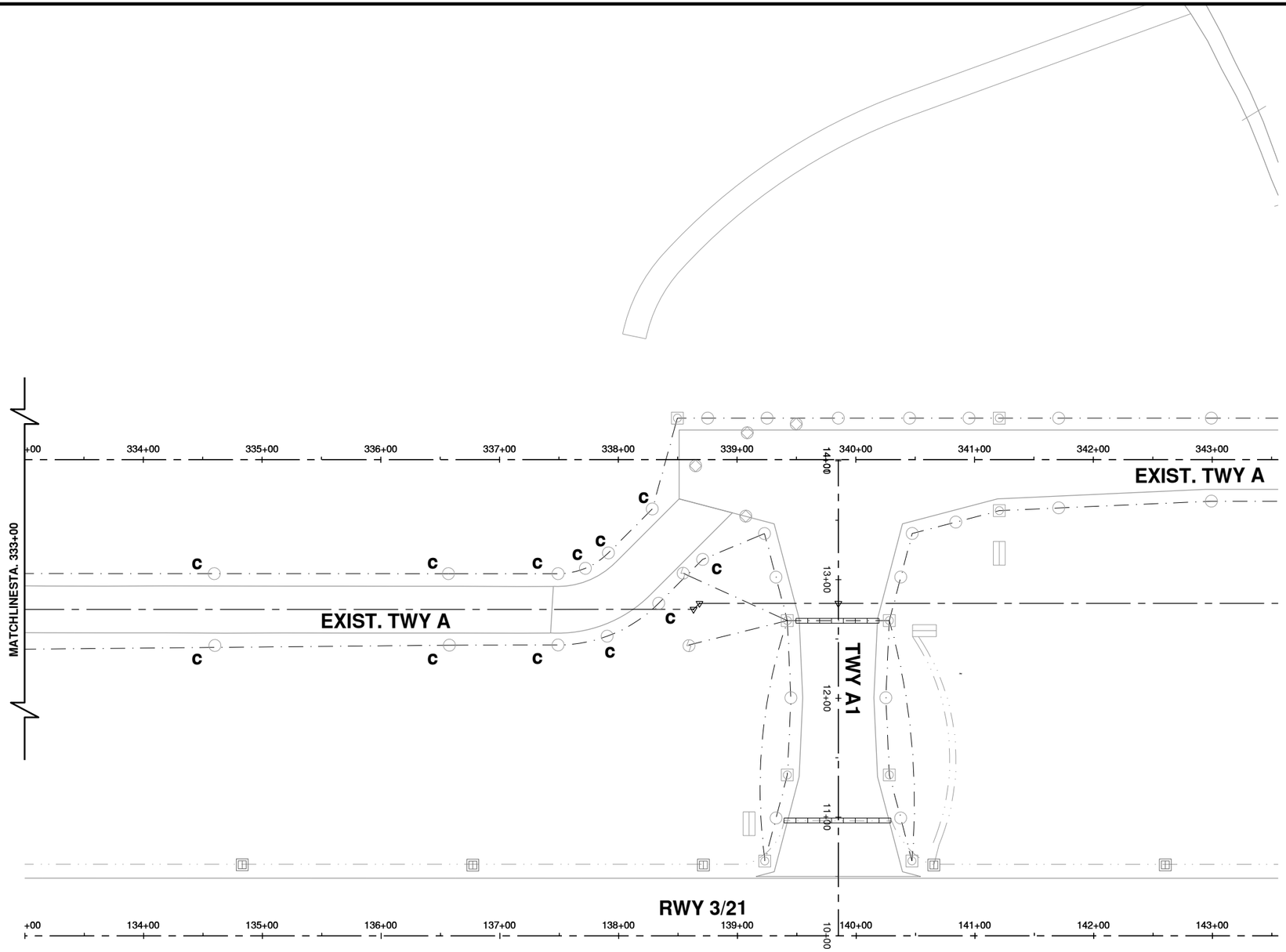


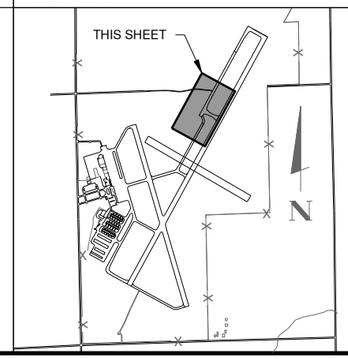
LEGEND

EXISTING	NEW	
		SPLICE CAN
		TAXIWAY GUIDANCE SIGN
		TAXIWAY EDGE LIGHT - STAKE MOUNTED
		TAXIWAY EDGE LIGHT - BASE MOUNTED
		RUNWAY BASE MOUNTED EDGE LIGHT
		4-WAY DUCT BANK
		RUNWAY EDGE LIGHT - FLUSH MOUNTED
		ELEVATED RETROREFLECTIVE MARKER
DM	DM	DUCT MARKER
C		COVER EXIST. LIGHT FIXTURE

	NEW TAXIWAY A CABLE; #8 5KV IN UD
	NEW RUNWAY 3-21 CABLE; #8 5KV IN UD
	NEW RUNWAY 16-34 CABLE; #8 5KV IN UD
	EXISTING TAXIWAY A CABLE; #8 5KV IN UD TO REMAIN
	EXISTING RUNWAY 3-21 CABLE; #8 5KV TO REMAIN
	EXISTING RUNWAY 16-34 CABLE; #8 5KV TO REMAIN
TW - A 1	CIRCUIT NAME; # OF CABLES

GENERAL NOTES

KEYMAP



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CONSULTANTS

N

0 50' 100'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
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SHEET TITLE

ELECTRICAL LAYOUT PLAN 2

EL102

SHEET 42 OF 57

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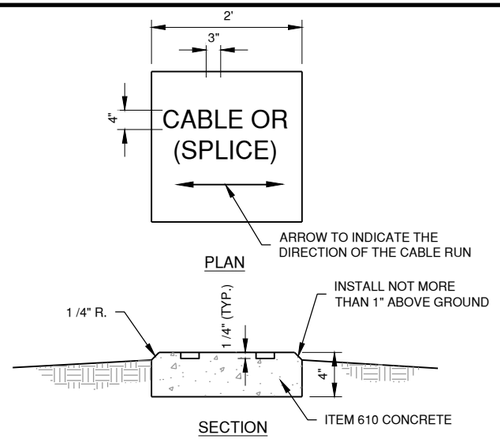
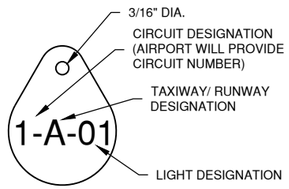


1 TURF CABLE / SPLICE MARKER

N.T.S.

NOTES:

1. DUCT MARKERS SHALL BE INSTALLED AT BOTH EDGES OF PAVEMENT WHERE PROPOSED ELECTRICAL DUCTS CROSS BOTH NEW AND EXISTING PAVEMENTS.
2. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
3. ITEM 610 CONCRETE SHALL BE USED.
4. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
5. THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
6. 0.049 CU. YD. CONCRETE PER MARKER.
7. A MARKER CONFORMING TO THIS DETAIL MARKED "SPLICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.

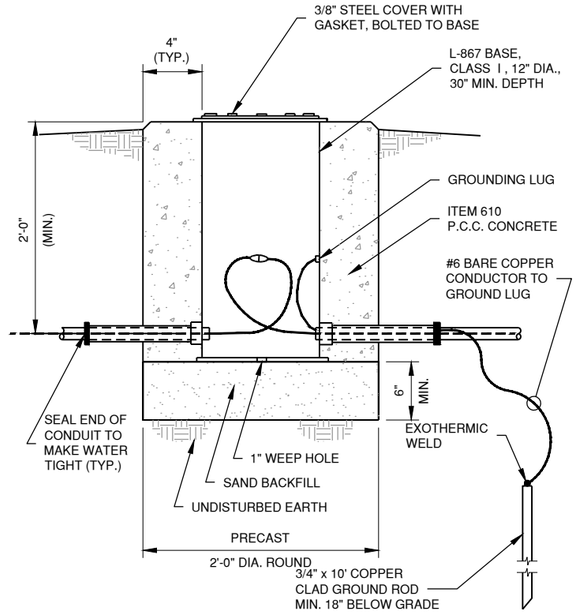


2 LIGHT IDENTIFICATION TAG

N.T.S.

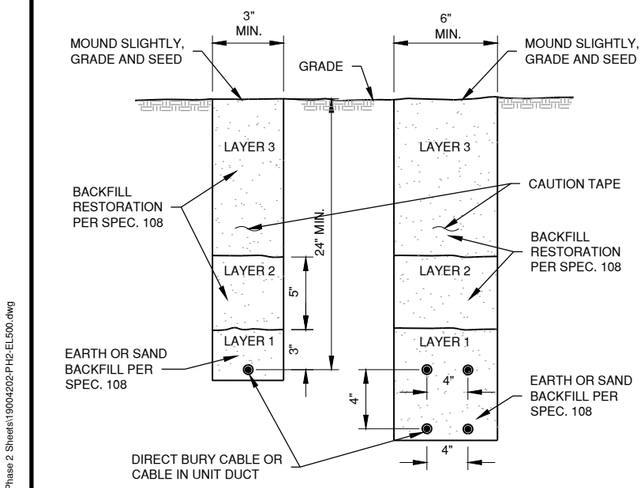
NOTES:

1. INSTALL A NON-CORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
2. LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.
3. THE CONTRACTOR SHALL NUMBER THE EXISTING/ PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.
4. AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.



3 SPLICE CAN

N.T.S.

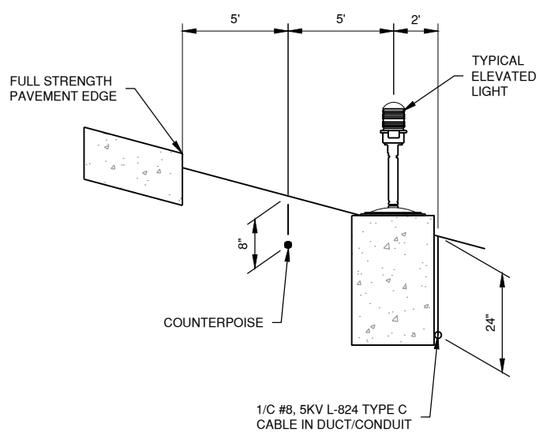


NOTES:

1. CABLES SHALL NOT BE PLACED LESS THAN 24" DEEP IN ANY ONE TRENCH UNLESS PERMITTED BY ENGINEER.
2. WHERE PERMITTED, CONTRACTOR MAY INSTALL CABLE IN UNIT DUCT BY PLOWING METHOD.

4 CABLE TRENCH

N.T.S.

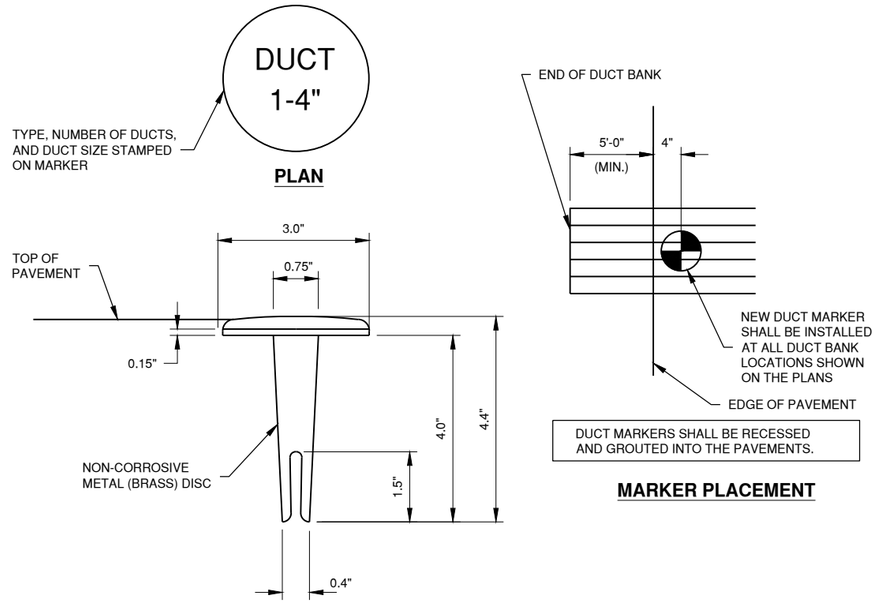


NOTES:

#6 BARE COUNTERPOISE WITH 3/4" x 10' GROUND ROD INSTALLED AT MAX. 500' SPACING. ALSO USE GROUND ROD TO TERMINATE THE COUNTERPOISE AT BOTH ENDS OF DUCT. GROUND RODS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.

5 COUNTERPOISE LOCATION

N.T.S.



5 DUCT MARKER IN-PAVEMENT

N.T.S.

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2:
TAXIWAY A2 & THE
CONNECTING TAXIWAY A TO
RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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DESIGNED BY:	EMH
DRAWN BY:	CMT
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SHEET TITLE

ELECTRICAL DETAILS 1

EL501

SHEET 43 OF 57

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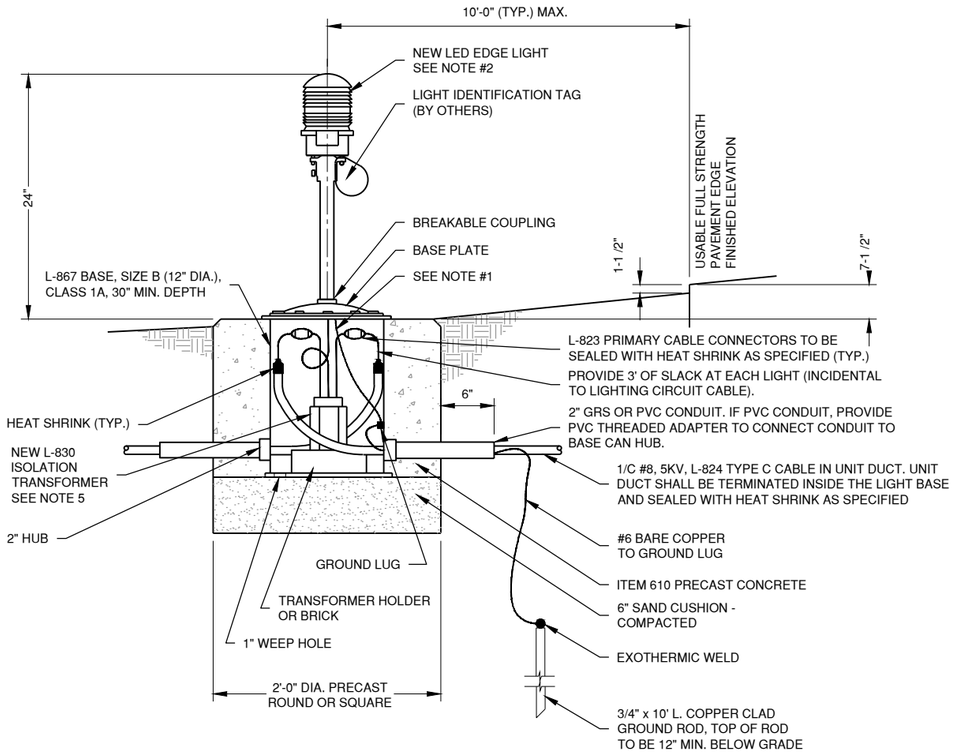
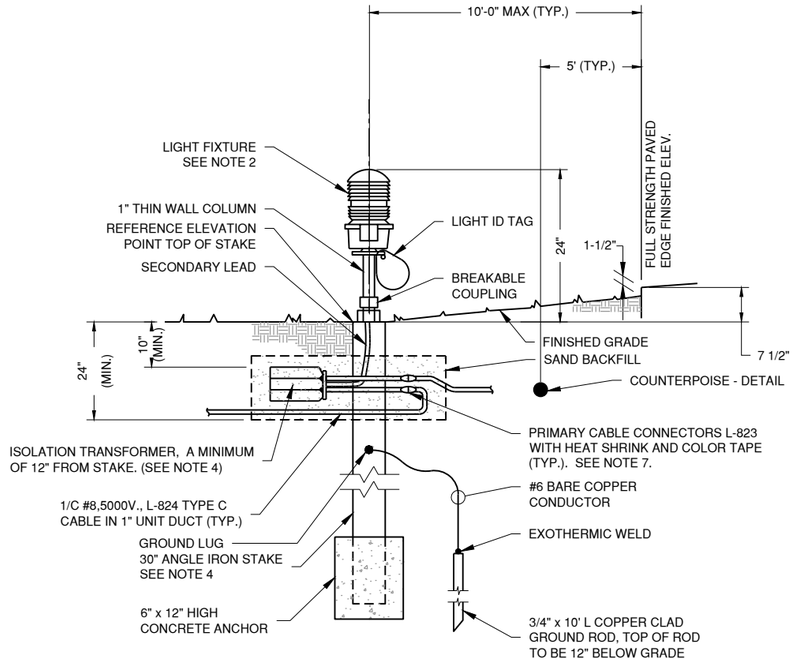


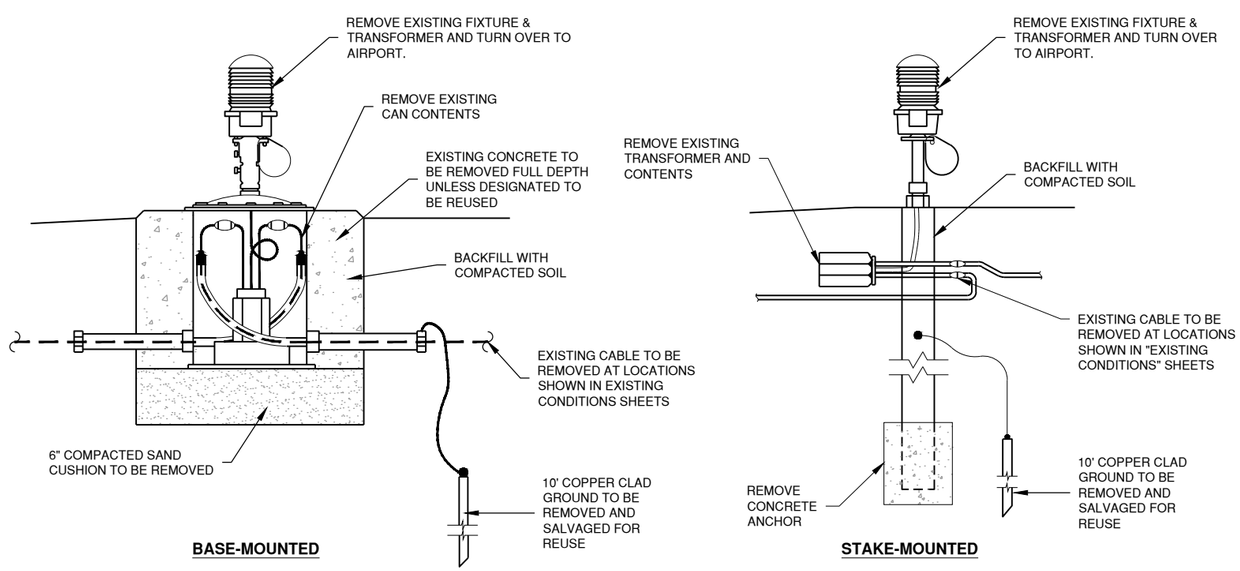
1 NEW BASE MOUNTED ELEVATED LIGHT IN TURF
N.T.S.



2 NEW STAKE MOUNTED MEDIUM INTENSITY LIGHTS - LED
N.T.S.

EDGE LIGHT NOTES

1. THE LIGHT FIXTURE SHALL BE BONDED TO THE LIGHT BASE INTERNAL GROUND LUG VIA A #6 AWG STRANDED COPPER WIRE RATED FOR 600 VOLTS WITH GREEN XHHW INSULATION. THE GROUND WIRE LENGTH SHALL BE SUFFICIENT TO ALLOW THE REMOVAL OF THE LIGHT FIXTURE FROM THE LIGHT BASE FOR ROUTINE MAINTENANCE. SEE THE LIGHT FIXTURE MANUFACTURER'S INSTRUCTIONS FOR PROPER METHODS OF ATTACHING THIS BONDING WIRE.
2. LIGHT FIXTURES SHALL BE NEW LED.
3. NEW LIGHT FIXTURES SHALL BE L-861T, AS INDICATED ON THE PLANS AND SPECIFICATIONS. ALL NEW LIGHTS SHALL BE LED.
4. DO NOT INSTALL ANGLE IRON STAKE BY DRIVING. MAKE ELECTRICAL CONNECTIONS AND BACKFILL AROUND THE STAKE WITH EARTH PASSING THE 1-INCH SIEVE. COMPACT AS REQUIRED TO PROVIDE FIRM SUPPORT FOR STAKE, AND TO THE SATISFACTION OF THE RESIDENT ENGINEER.
5. NEW TRANSFORMERS FOR EDGE LIGHTS AND SIGNS SHALL BE COMPATIBLE WITH THE REGULATORS SERVING THE CIRCUIT.
6. THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH. THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS MUST BE ± 1 INCH.
7. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK FACING PAVEMENT, CABLE TO THE LEFT IS CODED RED AND CABLE TO THE RIGHT IS CODED BLUE.
8. APPLY A CORROSION INHIBITING, ANTI-SEIZE COMPOUND TO ALL SCREWS, NUTS AND FRANGIBLE COUPLING THREADS. IF COATED BOLTS ARE USED PER ENGINEERING BRIEF #83, DO NOT APPLY ANTI-SEIZE COMPOUND.
9. ELECTRICAL INSULATING GREASE MUST BE APPLIED WITHIN THE L-830 ISOLATION TRANSFORMER SECONDARY TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THE CONNECTORS MUST NOT BE TAPED.
10. ENTRANCES IN L-867 BASES MUST BE PLUGGED FROM THE INSIDE WITH DUCT SEAL TO MAKE WATERTIGHT.
11. LIGHT BASES SHALL BE PRECAST.
12. CABLES SHALL NOT BE LESS THAN 24 INCHES DEEP. ENCASE ISOLATION TRANSFORMER, L-823 CONNECTORS, AND 2 FOOT MINIMUM OF L-824 CABLE SLACK IN SAND BACKFILL.
13. L-830 ISOLATION TRANSFORMERS FOR LED EDGE LIGHTS SHALL BE L-830-1 30/45 WATT. LED EDGE LIGHTS WITHOUT HEATERS SHALL BE L-830-16, 19/5 WATT OR L-830-17, 20/25 WATT, AS RECOMMENDED BY LIGHT MANUFACTURER.
14. UNIT DUCT, WHERE INSTALLED, SHALL BE TERMINATED AT L-823 CONNECTORS AND SEALED TO MAKE WATERTIGHT.
15. ENTRANCES IN L-867 BASES MUST BE PLUGGED FROM THE INSIDE WITH DUCT SEAL TO MAKE WATERTIGHT.
16. EDGE LIGHTS SHALL BE LOCATED NO MORE THAN 10' AND NO LESS THAN 2' FROM THE FULL STRENGTH PAVEMENT EDGE, IN A STRAIGHT LINE PARALLEL WITH CENTERLINE.



3 REMOVE EDGE LIGHT
N.T.S.

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License No. 184-000613
CONSULTANTS

100% SUBMITTAL
MARCH 1, 2024

REALIGN TAXIWAY A PH 2:
TAXIWAY A2 & THE
CONNECTING TAXIWAY A TO
RUNWAY 16/34

OWNER
VERMILION REGIONAL AIRPORT

VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-EL500.DWG
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SHEET TITLE
ELECTRICAL DETAILS 2

EL502
SHEET 44 OF 57

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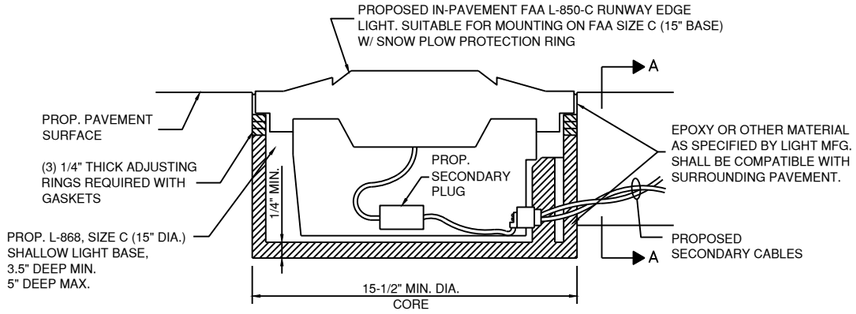
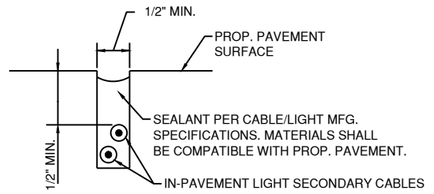
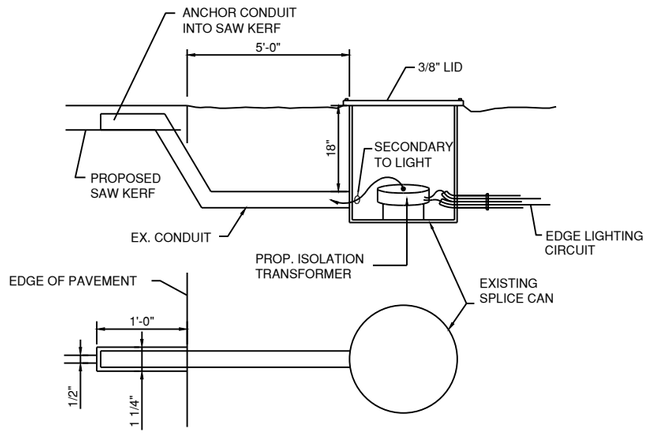


1 IN-PAVEMENT LIGHT DETAIL
N.T.S.

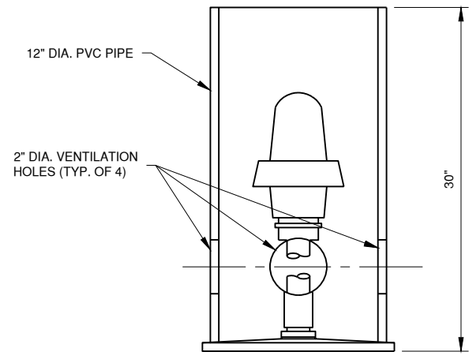


2 SAW KERF DETAIL; SECTION A-A
N.T.S.



SPLICE CAN LOCATION

3 SPLICE CAN LOCATION FOR IN-PAVEMENT LIGHT
N.T.S.



4 TAXIWAY EDGE LIGHT COVER DETAIL
N.T.S.

NOTES

3' TALL TRAFFIC CONES MAY BE SUBSTITUTED FOR PVC PIPE.

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MARCH 1, 2024

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VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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ELECTRICAL DETAILS 3

EL503

SHEET 45 OF 57

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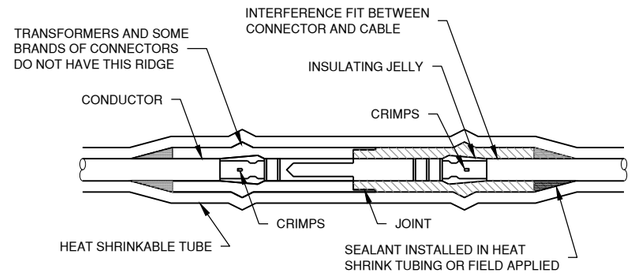
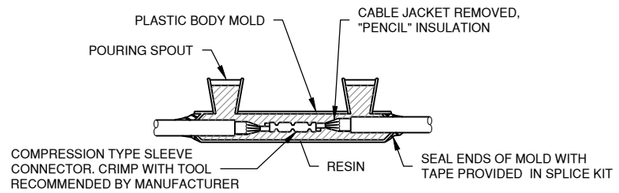
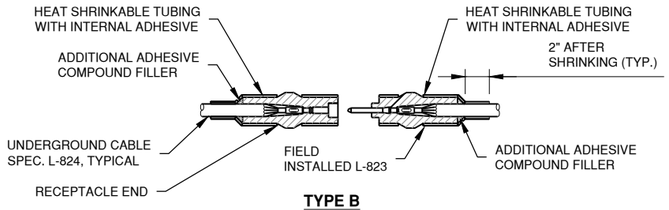


RECEPTACLE **PLUG**



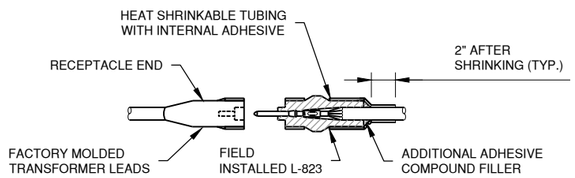
TYPE A

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY



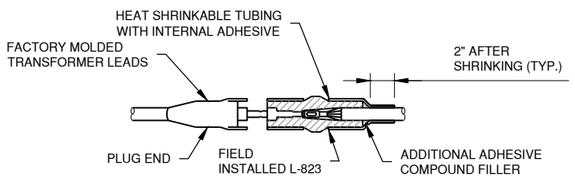
TYPE B

NOT TO BE USED UNLESS DIRECTED BY ENGINEER



TYPE C

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS



TYPE D

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS

2 CABLE SPLICES

N.T.S.

INSTALLATION INSTRUCTIONS TO SUPPLEMENT THE MANUFACTURER'S INSTRUCTIONS

1. CLEAN THE CABLE THOROUGHLY 9" MIN. FROM THE END.
2. REMOVE INSULATION PER MANUFACTURER'S INSTRUCTIONS. DO NOT NICK THE CONDUCTOR. DO NOT PENCIL INSULATION ON L-824 TYPE C CABLE.
3. INSTALL PIN AND/OR RECEPTICAL WITH CRIMPING TOOL WHICH MUST BE COMPLETELY CLOSED BEFORE THE TOOL MAY BE REMOVED.
4. BE SURE CABLE AND CONDUCTOR FITTINGS ARE CLEAN. COAT THE CABLE INSULATION WITH INSULATION JELLY FROM THE CONNECTOR.
5. CAREFULLY INSERT CABLE INTO CONNECTOR TO THE PROPER DEPTH.
6. SLIP 14 INCH LENGTH OF HEAT SHRINK TUBING ON TRANSFORMER LEAD RAYCHEM TCS-13-14-U OR APPROVED EQUAL.
7. COMPLETE CONNECTION BY MATING THE PLUG AND RECEPTICAL. **CAUTION** BE SURE THE CABLE DOES NOT SLIP WHEN THE CONNECTION IS MADE.
8. APPLY RUBBER TAPE AND PLASTIC TAPE, ONE HALF LAPPED 1-1/2" ON EACH SIDE OF JOINT.
9. ANY CONNECTOR WHICH IS CONTAMINATED BY DIRT OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED NOT REINSTALLED.
10. CLEAN CONNECTOR AND CABLE INSULATION WITH WAX OR GREASE SOLVENT TO REMOVE SURFACE SILICONE JELLY.
11. WRAP SEALANT SECURELY AROUND THE CABLE. INSULATION TO EXTEND 1-1/2" BEYOND BOTH ENDS OF CONNECTORS. SEALANT SHALL BE RAYCHEM S-1052 (STRIPS) OR APPROVED EQUAL.
12. CENTER HEAT SHRINK OVER THE CONNECTOR. APPLY HEAT EVENLY BEGINNING AT THE CENTER AND WORKING AROUND CABLE TO ENDS. THERMOCHROMIC PAINT SHALL SHOW PROPER HEAT HAS BEEN USED. *** DO NOT OVER HEAT ***.
13. THE HEAT SOURCE SHALL BE AN ELECTRIC HEAT GUN OR A PROPANE WITH FLAME SPREADER.
14. CONTRACTOR MAY ELECT TO INSTALL "COMPLETE KIT" IN LIEU OF L-823 CONNECTOR WITH HEAT SHRINK.

NOTES

1. MATCH THE OUTSIDE DIAMETER OF CABLE INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY
2. WRAP WITH AT LEAST ONE LAYER OF RUBBER OR TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF JOINT.

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OWNER

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DANVILLE, ILLINOIS

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ELECTRICAL DETAILS 4

EL504

SHEET 46 OF 57

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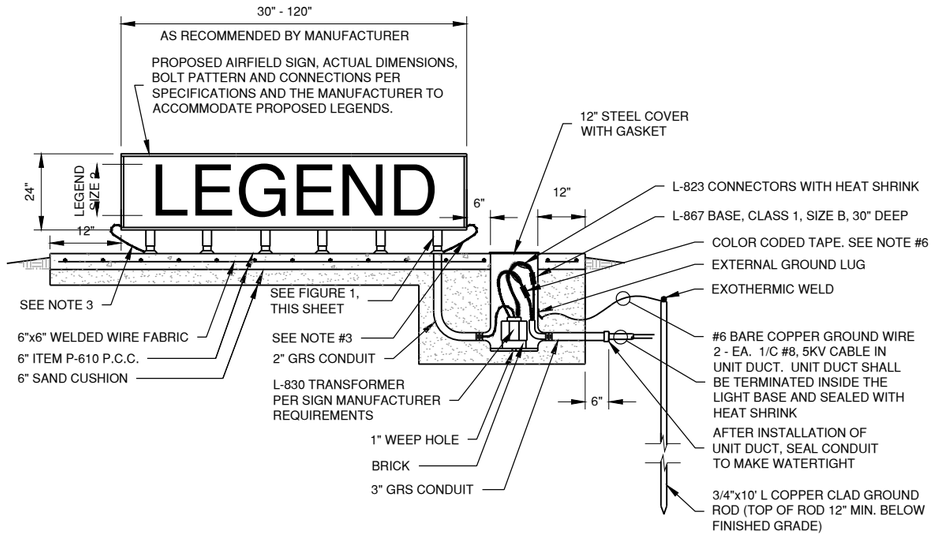
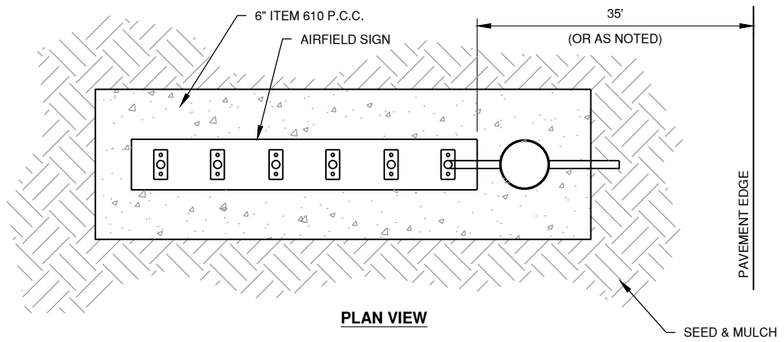


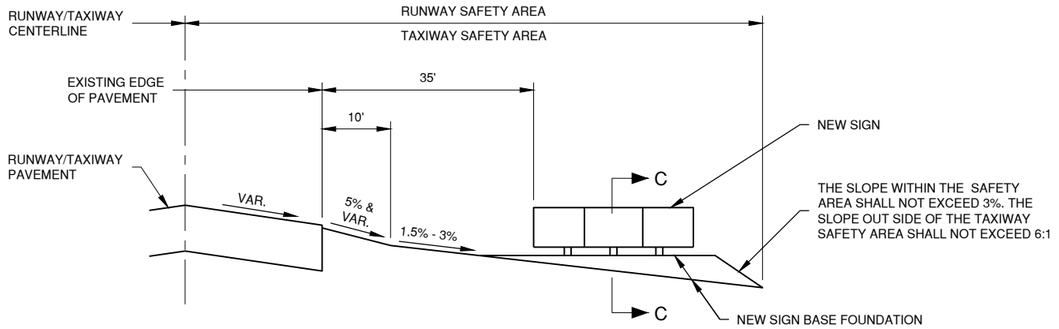


PLAN VIEW

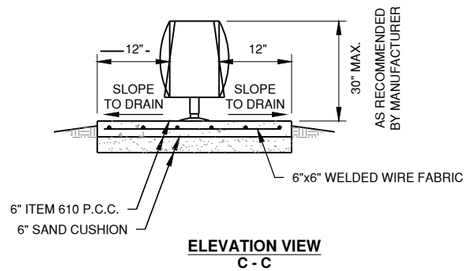
1 L-858 AIRFIELD GUIDANCE SIGN - LED
N.T.S.

AIRFIELD GUIDANCE SIGN NOTES

1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY LED SIGN MANUFACTURER. SIGNS ON RUNWAY CIRCUITS SHALL BE STYLE 2 OR 3 DEPENDING ON REGULATOR.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS. SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN. CHANGES TO NEW LEGENDS MAY OCCUR DURING CONSTRUCTION.
3. SIGN ANCHOR TETHERS AND GROUND WIRES ARE REQUIRED. SEE SPECIFICATIONS.
4. SIGNS SHALL BE SIZE 2, STYLE 2 OR 3, CLASS 2, AND MODE 2. SEE SIGN SCHEDULE FOR DETAILS
5. LIGHT I.D. TAG FOR SIGN SHALL INCLUDE SIGN DESIGNATOR SHOWN IN THE PLAN TABLES.
6. DIRECTION OF PRIMARY CABLES MUST BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING SIGN IN BACK FACING THE RELATED RUNWAY OR TAXIWAY PAVEMENT, THE CABLE FOR THE CIRCUIT TO THE LEFT IS CODED RED AND CABLE FOR THE CIRCUIT TO THE RIGHT IS CODED BLUE.



ELEVATION

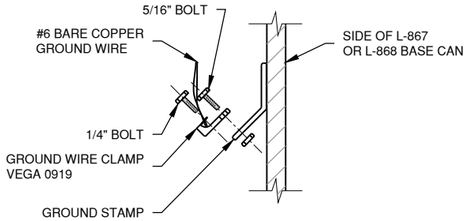


ELEVATION VIEW
C - C

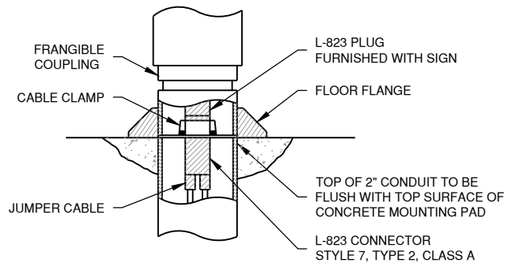
2 AIRFIELD SIGN INSTALLATION
N.T.S.

SIGN NOTES

1. SLOPES SHOWN ARE FROM FAA STANDARDS AND MAY NOT REFLECT THE ACTUAL GRADES IN THE FIELD
2. ESTIMATED 1 C.Y. OF EMBANKMENT MAY BE REQUIRED TO CONSTRUCT SIGN BASE FOUNDATION. COSTS TO CONSTRUCT SHALL BE INCIDENTAL TO SIGN PAY ITEM.
3. ACTUAL LOCATION OF THE SIGN WITHIN THE TAXIWAY SAFETY AREA WILL VARY DUE TO PAVEMENT WIDTHS AND VARIANCES IN SIGN FOUNDATION LENGTHS.
4. 4" OF KNITTED STRAW MAT SHALL BE PLACED AROUND THE PROTECTION APRON. COST FOR MAT SHALL BE INCIDENTAL TO SIGN PAY ITEM.



3 FACTORY GROUND LUG
N.T.S.



4 ELECTRICAL CONNECTION
N.T.S.

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SHEET TITLE

ELECTRICAL DETAILS 5

EL505

SHEET 47 OF 57

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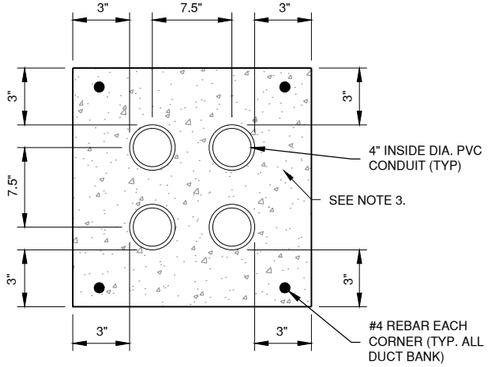
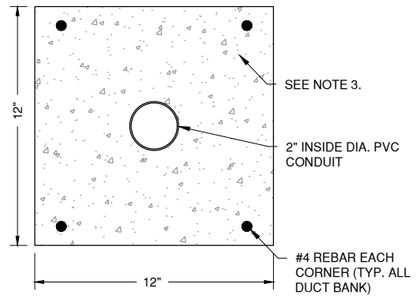
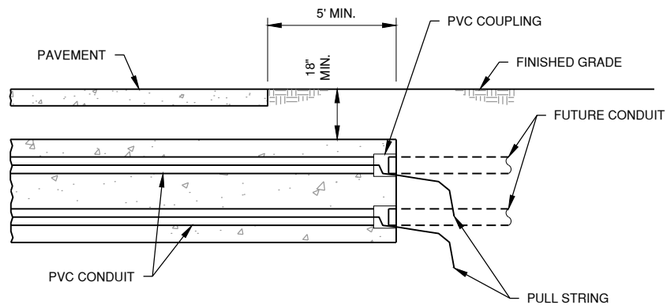


1 4'- 4-WAY DUCT BANK
N.T.S.



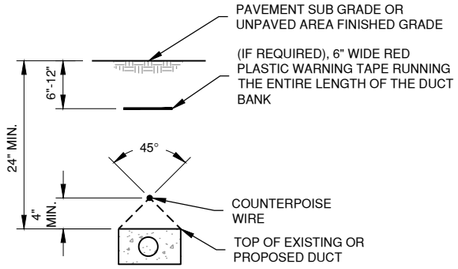
2 1-WAY DUCT BANK
N.T.S.



3 DUCT BANK TYPICAL SECTION
N.T.S.

DUCT BANK NOTES

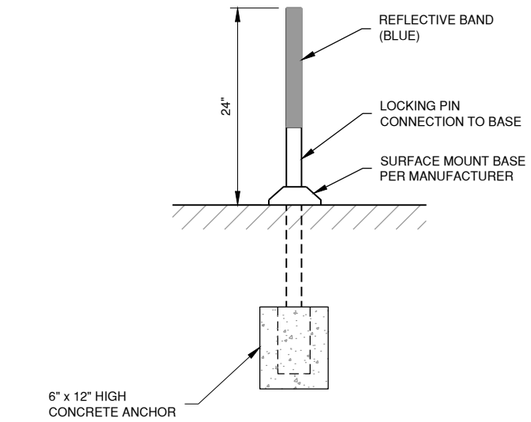
1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASEMENT SHALL BE NOT LESS THAN 24" BELOW FINISHED SUBGRADE BELOW PAVEMENTS AND NOT LESS THAN 24" BELOW FINISHED GRADE IN UNPAVED AREAS, EXCEPT WHERE DIRECTED OTHERWISE BY ENGINEER. AVOID ALL CONFLICTS WITH OTHER UTILITIES (UNDERDRAINS, WATER LINES, SEWER LINES, TELEPHONE, ELECTRICAL) OR OTHER OBSTACLES, ADJUSTING DEPTH AS NECESSARY.
3. CONCRETE SHALL BE ITEM 610.
4. CONDUIT FOR CONCRETE ENCASEMENT SHALL BE SCHEDULE 40 PVC, 4" NOMINAL DIAMETER, OR AS INDICATED ON THE PLANS.
5. CONCRETE ENCASEMENT SHALL EXTEND A MINIMUM OF 5'-0" BEYOND EDGES OF PAVEMENT, OR AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
6. #4 REBAR SHALL BE INSTALLED CONTINUOUS THE LENGTH OF THE CONCRETE ENCASEMENT.
7. DUCT BANK SHALL BE STACKED NO MORE THAN THREE CONDUITS HIGH UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
8. AT ENDS OF DUCT BANKS, INSTALL A PVC COUPLING FLUSH WITH END OF CONCRETE FOR CONNECTING FUTURE CONDUIT. INSTALL POLYETHELENE PULL STRING, GREENLEE, OR EQUIVALENT. PLUG THE ENDS OF UNUSED SPARE CONDUITS WITH WOODEN PLUGS.
9. HIGH VOLTAGE WIRING, RUNWAY & TAXIWAY SERIES CIRCUIT WIRING, ETC., AND POWER WIRING OVER 480V SHALL BE INSTALLED IN SEPARATE CONDUITS FROM LOW VOLTAGE WIRING, 480V OR LESS.
10. IF POSIBLE, INSTALL FIBER OPTIC CABLES AND COMMUNICATION CABLES (FAA, ETC.) IN THEIR OWN CONDUITS; OTHERWISE, INSTALL THEM IN THE CONDUITS WITH LOW VOLTAGE WIRING.



4 LOCATION OF COUNTERPOISE (DUCT BANK)
N.T.S.

NOTES:

1. THE HEIGHT ABOVE THE CABLE AND/OR CONDUIT IS CALCULATED TO ENSURE THE CABLES AND/OR CONDUITS TO BE PROTECTED ARE WITHIN THE 45° ZONE OF PROTECTION BELOW THE COUNTERPOISE.
2. COUNTERPOISE WIRES MUST BE INSTALLED ABOVE MULTIPLE CONDUITS/DUCT BANKS FOR AIREFIELD LIGHTING CABLES, WITH THE INTENT BEING TO PROVIDE A COMPLETE CONE OF PROTECTION OVER THE AIRFIELD LIGHTING CABLES. WHEN MULTIPLE CONDUITS AND/OR DUCT BANKS FOR AIRFIELD CABLE ARE INSTALLED IN THE SAME TRENCH, THE NIMBER AND LOCATION OF THE COUNTERPOISE WIRES ABOVE THE CONDUITS SHALL BE ADEQUATE TO PROVIDE A COMPLETE ZONE OF PROTECTION MEASURED 22-1 /2°EACH SIDE OF VERTICAL.
3. REFER TO THE CURRENT VERSIONS OF FAA AC 150/5340-30 AND AC 150/5370-10 FOR MORE DETAILS ON COUNTERPOISE INSTALLATION.



5 L-853 RETROREFLECTIVE MARKER
N.T.S.

NOTES:

1. REFLECTORS ARE INSTALLED 10' FROM EDGE OF MARKED PAVEMENT, IN-LINE WITH EXISTING OR PROPOSED TAXIWAY EDGE LIGHTS.

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SHEET TITLE
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EL506
SHEET 48 OF 57

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Date: Friday, March 1, 2024 9:03:23 PM

FIXTURE TABLE
PH2 - TAXIWAY EDGE LIGHTS

FIXTURE #	FIXTURE TYPE	HORIZONTAL CONTROL
A-1	BMTL	TWY A STA 321+09.97
A-2	SMTL	TWY A STA 321+46.70
A-3	BMTL	TWY A STA 321+84.72
A-4	SMTL	TWY A STA 322+96.26
A-5	BMTL	TWY A STA 323+73.19
A-6	SMTL	TWY A STA 324+10.59
A-7	BMTL	TWY A STA 324+47.72
A-8	SMTL	TWY A STA 324+69.47
A-9	BMTL	TWY A STA 324+69.47
A-10	BMTL	TWY A STA 324+69.47
A-11	SMTL	TWY A STA 324+69.47
A-12	BMTL	TWY A STA 324+69.47
A-13	SMTL	TWY A STA 324+69.47
A-14	BMTL	TWY A STA 324+69.47
A-15	BMTL	TWY A STA 325+31.52
A-16	SMTL	TWY A STA 325+21.53
A-17	BMTL	TWY A STA 325+11.42
A-18	BMTL	TWY A STA 325+08.88
A-19	BMTL	TWY A STA 325+11.42
A-20	SMTL	TWY A STA 325+21.53

FIXTURE TABLE
PH2 - TAXIWAY EDGE LIGHTS

FIXTURE #	FIXTURE TYPE	HORIZONTAL CONTROL
A-21	BMTL	TWY A STA 325+31.65
A-22	EL-MARKER	TWY A STA 325+31.85
A-23	EL-MARKER	TWY A STA 325+24.91
A-24	EL-MARKER	TWY A STA 325+11.19
A-25	BMTL	TWY A STA 324+91.37
A-26	SMTL	TWY A STA 324+10.59
A-27	BMTL	TWY A STA 323+73.45
A-28	SMTL	TWY A STA 322+96.28
A-29	BMTL	TWY A STA 321+84.73
A-30	SMTL	TWY A STA 321+46.57
A-31	BMTL	TWY A STA 321+09.99

GUIDANCE SIGN SCHEDULE

SIGN #	SIDE	NEW SIGN LEGEND	WHITE WITH BLACK OUTLINE ON RED BACKGROUND (L-858R)	BLACK LEGEND ON YELLOW BACKGROUND (L-858Y)	YELLOW LEGEND ON BLACK BACKGROUND (L-858L)	NUMBER OF CHARACTERS	POWER CIRCUIT	SIGN TYPE	SIGN SIZE	SIGN STYLE	SIGN CLASS	SIGN MODE
GS- 1	NW	← A		← A		2	RWY 16-34	L-858 (LED)	2	2	2	2
	SE						MED. INT.					
GS- 2	NE	A			A	6	TXY A	L-858 (LED)	2	2	2	2
	SW	↖ A A A 2 ↗		↖ A A 2 ↗	A		MED. INT.					
GS- 3	NW	A 2 3 - 2 1	3 - 2 1		A 2	6	RWY 3-21	L-858 (LED)	2	2	2	2
	SE						HIGH INT.					
GS- 4	NE	A 2 →		A 2 →		3	RWY 3-21	L-858 (LED)	2	2	2	2
	SW						MED. INT.					
GS- 5	NE					3	RWY 3-21	L-858 (LED)	2	2	2	2
	SW	← A 2		← A 2			MED. INT.					
GS- 6	NW	A			A	6	TXY A	L-858 (LED)	2	2	2	2
	SE	↖ A A 2 A →		↖ A A →	A 2		MED. INT.					
GS- 7	NE	A 16 - 34	16 - 34		A	6	RWY 16-34	L-858 (LED)	2	2	2	2
	SW						MED. INT.					
GS- 8	NW					2	RWY 16-34	L-858 (LED)	2	2	2	2
	SE	A →		A →			MED. INT.					

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THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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MARCH 1, 2024

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VERMILION REGIONAL
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DANVILLE, ILLINOIS

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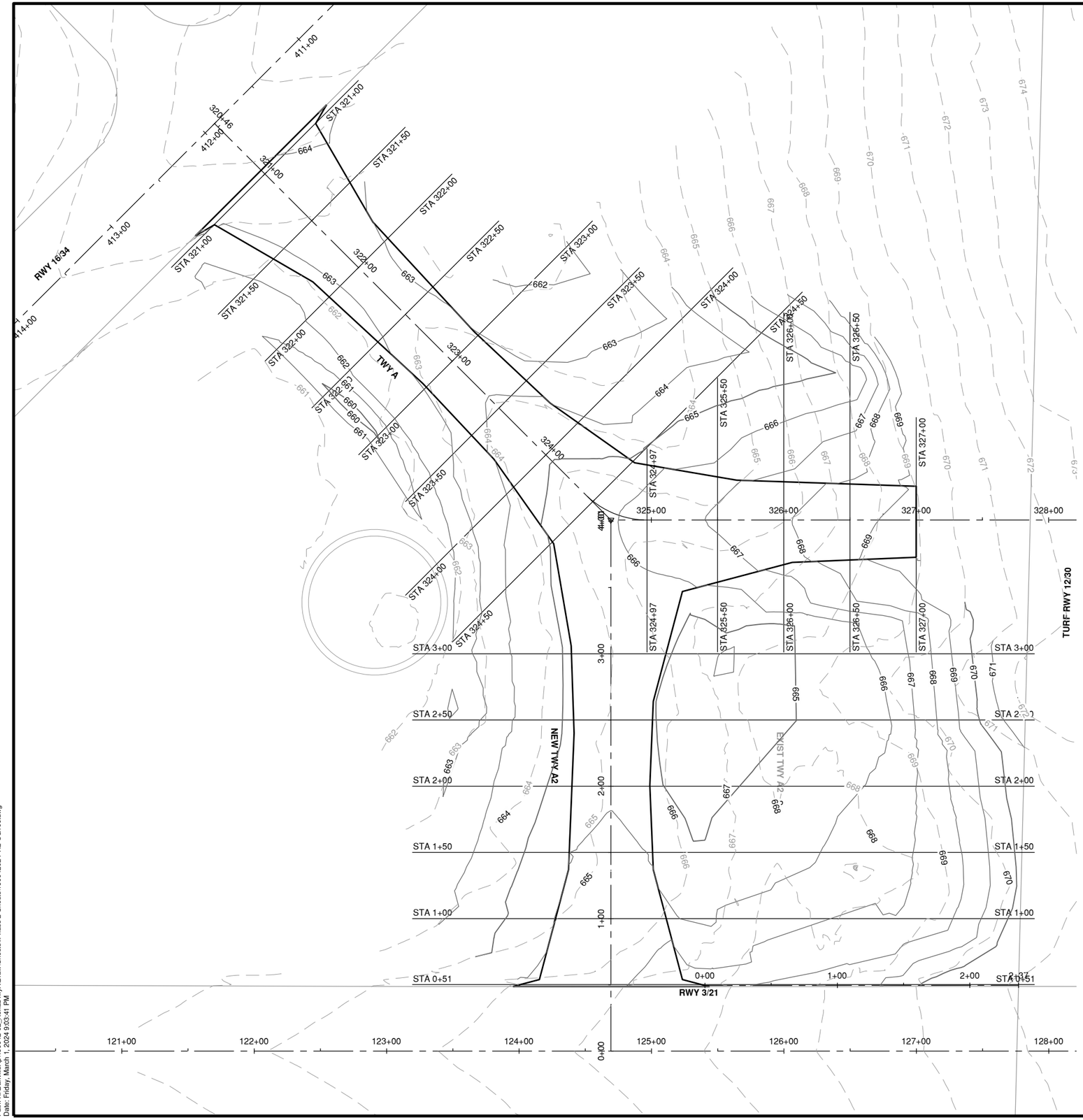
FED PROJ. NO. 3-17-SBGP-TBD
IL. PROJ. NO. DNV-5110
CMT PROJECT NO: 190042-02-20
CAD DWG FILE: 19004202-PH2-EL600.DWG
DESIGNED BY: EMH
DRAWN BY: CMT
CHECKED BY: MJD
APPROVED BY: EMH
COPYRIGHT:

SHEET TITLE
LIGHT & SIGN SCHEDULE

EL601
SHEET 49 OF 57



EARTHWORK SUMMARY

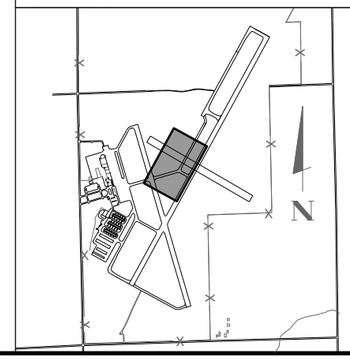
STATION	EXCAVATE END AREA (S.F.)	CUT VOLUME (C.Y.)	EMBANK END AREA (S.F.)	FILL VOLUME (C.Y.)
TXY A2 (PHASE 2 BB)				
0+50	202	0	0	0
1+00	296	461	36	33
1+50	382	627	56	85
2+00	528	842	49	98
2+50	723	1158	38	81
3+00	723	1338	46	78
SUBTOTAL =		**4426**		**375**
TXY A (PHASE 2 BB)				
321+01	40	0	0.5	0
321+50	13.8	49	10.2	10
322+00	5.6	18	25	33
322+50	18.5	22	19.7	41
323+00	34.5	49	8.4	26
323+50	39.1	68	16	23
324+00	39.3	73	37.1	49
324+50	130.5	157	113.8	140
324+96	140.2	231	68.5	155
SUBTOTAL =		**667**		**476**
TXY A (PHASE 2 AA1 AND AA2)				
325+50	172.5	313	104.3	104
326+00	202.4	347	81.1	172
326+50	245.3	415	17.4	91
327+00	102.4	322	4.7	20
SUBTOTAL =		**1396**		**388**

LEGEND

590.5 — NEW CONTOUR

590.5 — EXISTING CONTOUR

KEYMAP



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CONSULTANTS

N

0 100' 200'

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG100.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

CROSS SECTIONS INDEX

CG101

SHEET 50 OF 57

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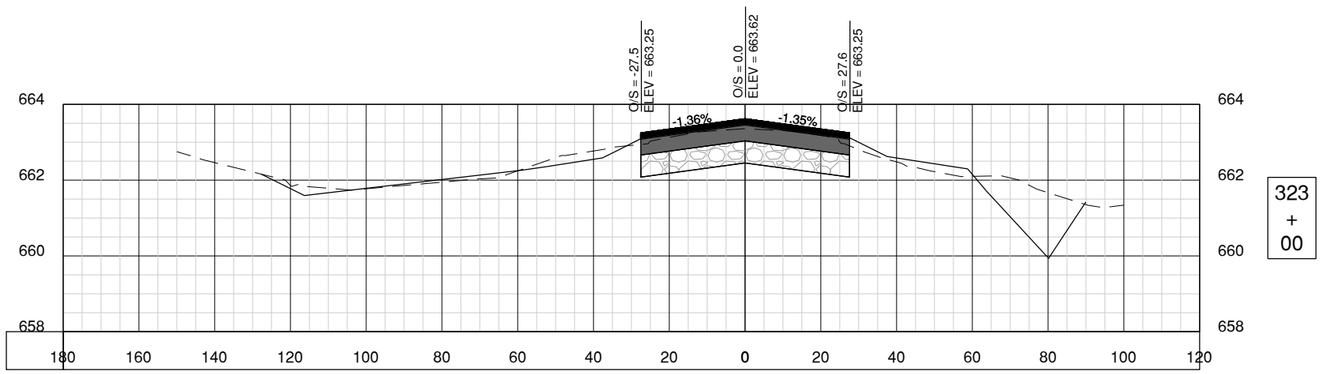

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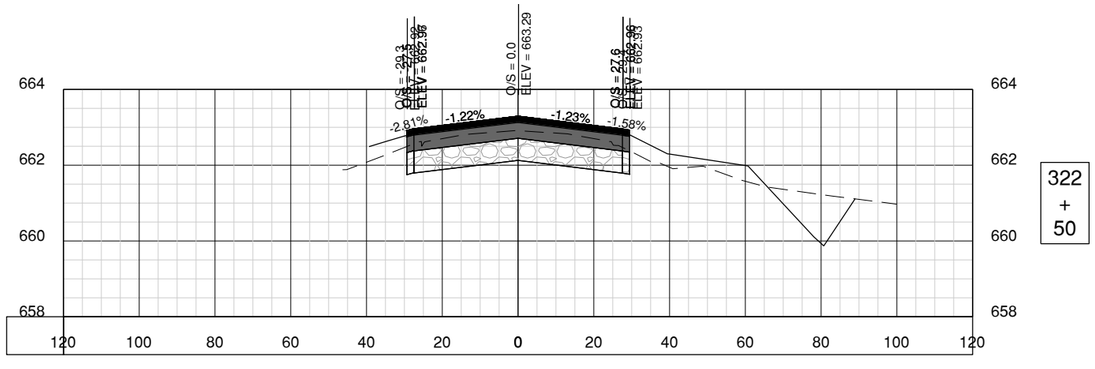

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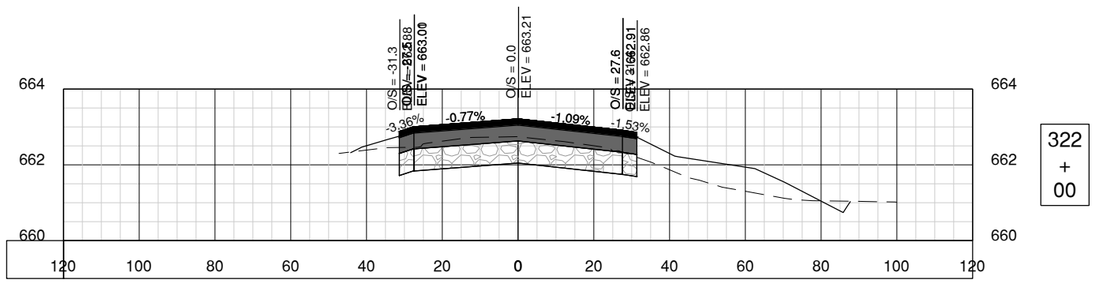

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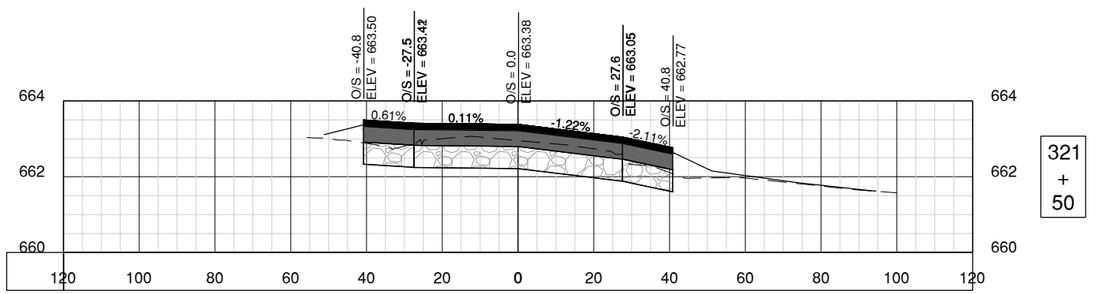

321 + 50

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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SHEET TITLE

PROPOSED TAXIWAY A CROSS SECTIONS 1

CG301

SHEET 51 OF 57

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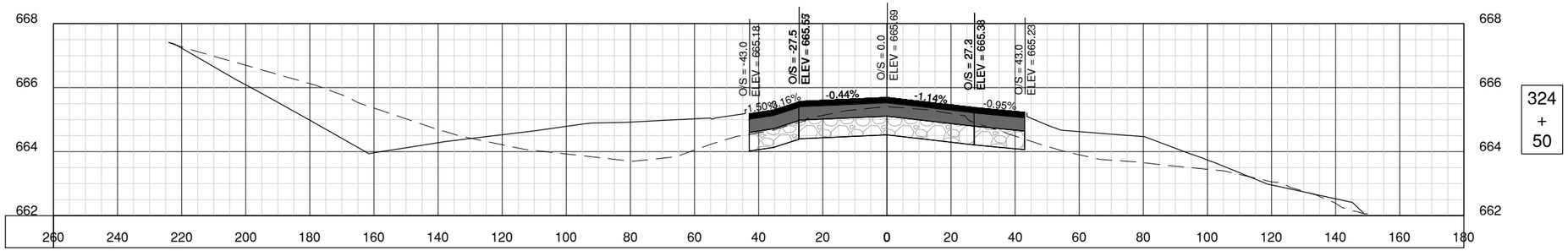

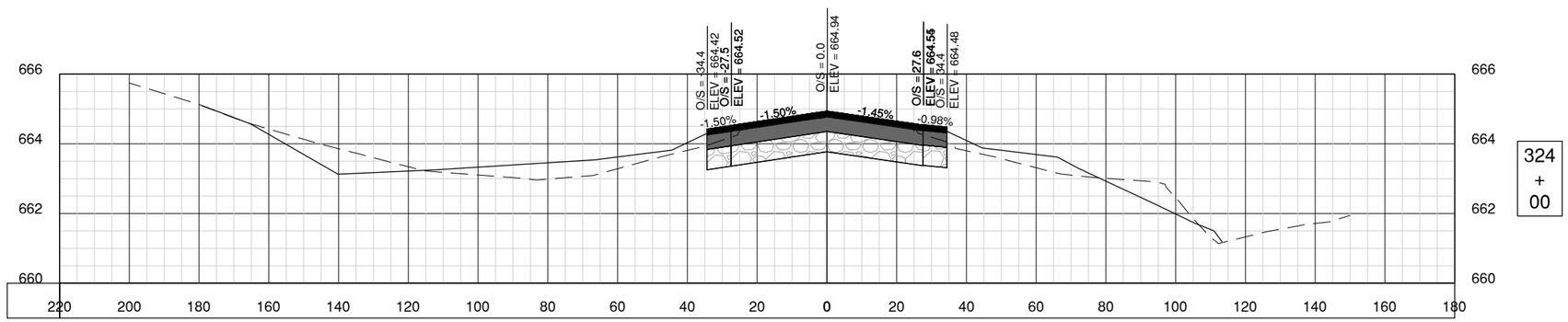

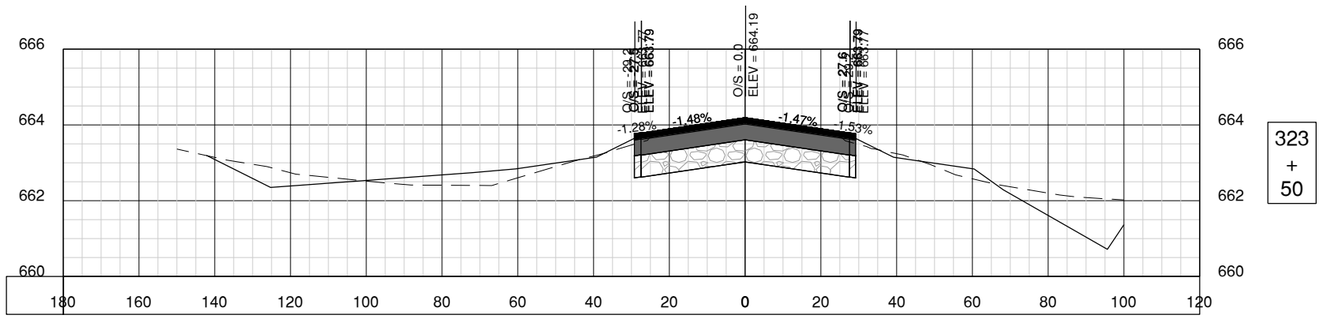

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
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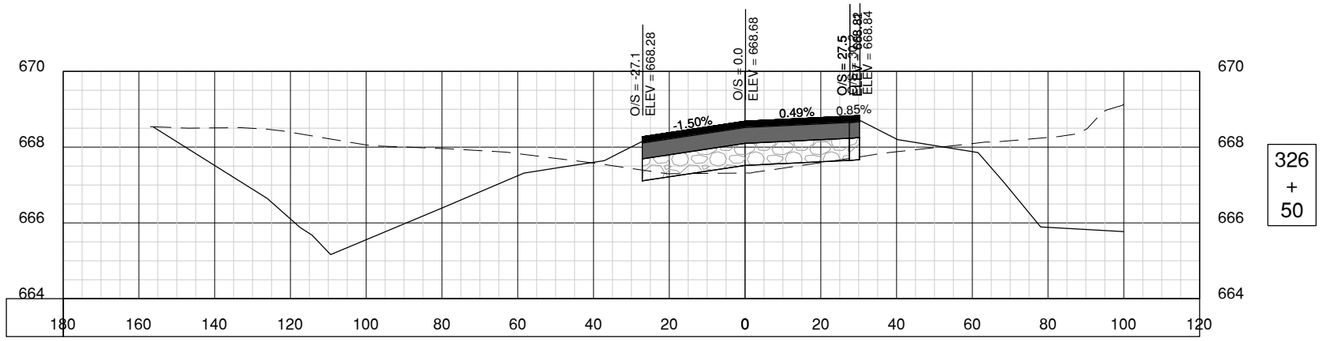
SHEET TITLE

PROPOSED TAXIWAY A CROSS SECTIONS 2

CG302

SHEET 52 OF 57



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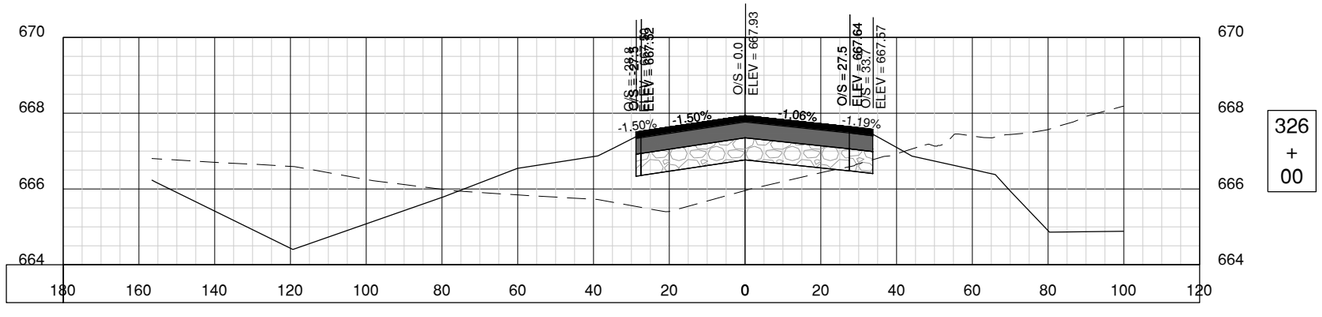

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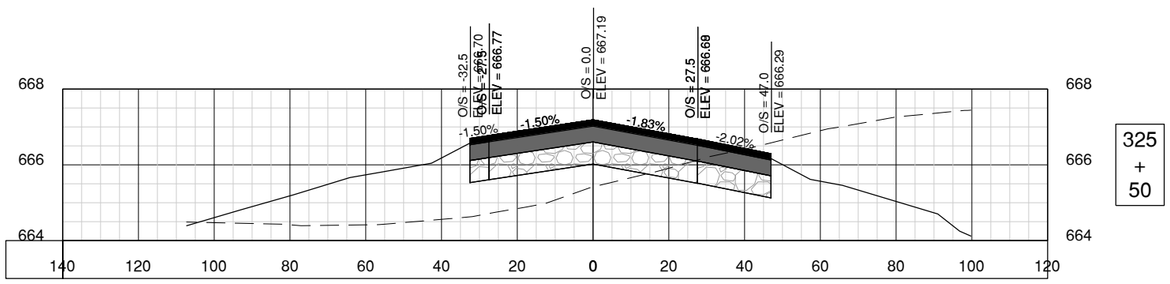

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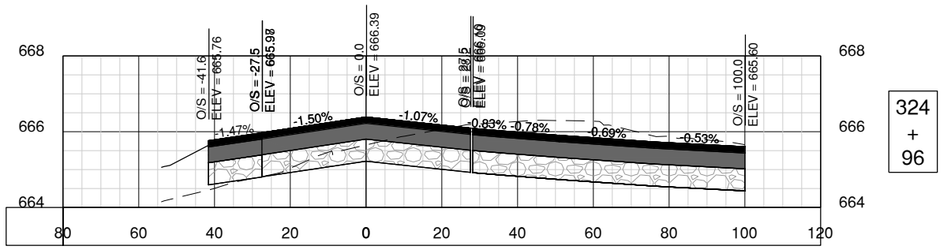

324 + 96

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
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SHEET TITLE

PROPOSED TAXIWAY A CROSS SECTIONS 3

CG303

SHEET 53 OF 57

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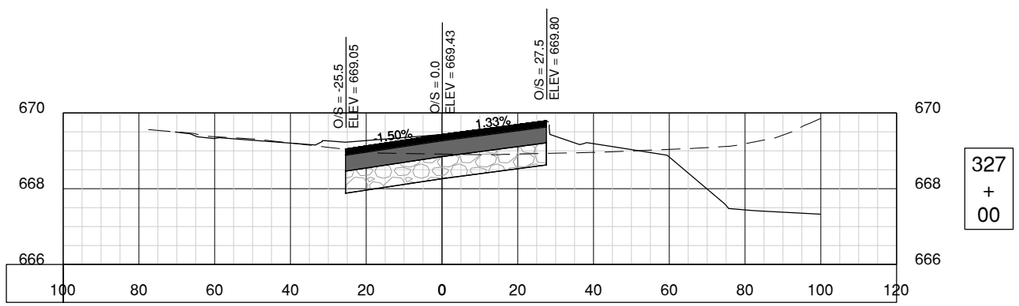

327
+
00

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2:
TAXIWAY A2 & THE
CONNECTING TAXIWAY A TO
RUNWAY 16/34

OWNER

VERMILION REGIONAL
AIRPORT

VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
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SHEET TITLE

PROPOSED TAXIWAY
A CROSS SECTIONS 4

CG304

SHEET 54 OF 57

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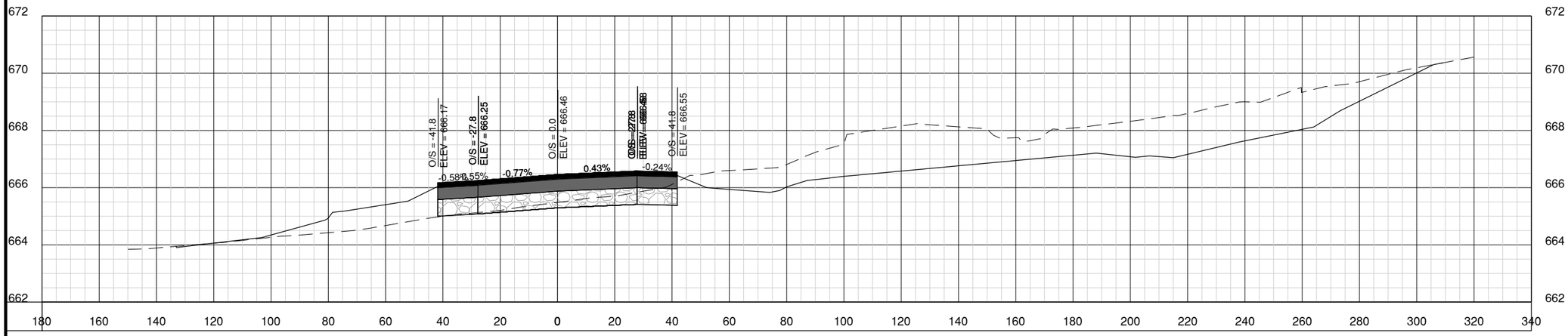

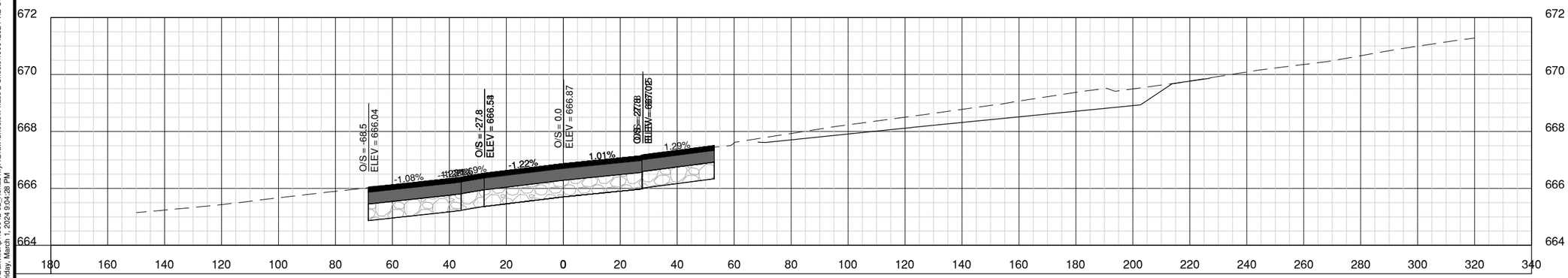

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

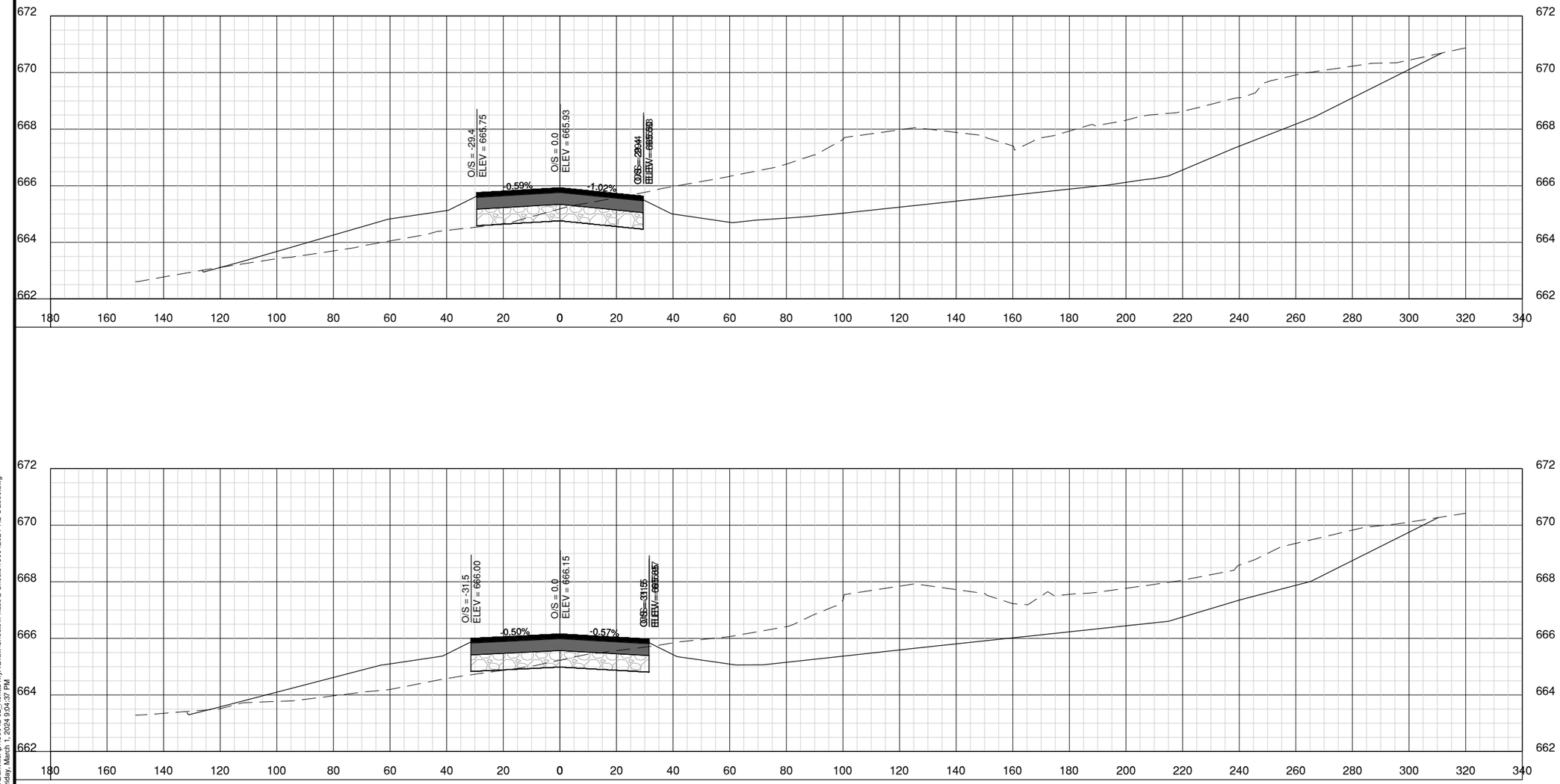
FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH
COPYRIGHT:	

SHEET TITLE

PROPOSED TAXIWAY A2 CROSS SECTIONS 1

CG305

SHEET 55 OF 57



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1 + 50

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Date: Friday, March 1, 2024 9:04:37 PM

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MARCH 1, 2024

REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

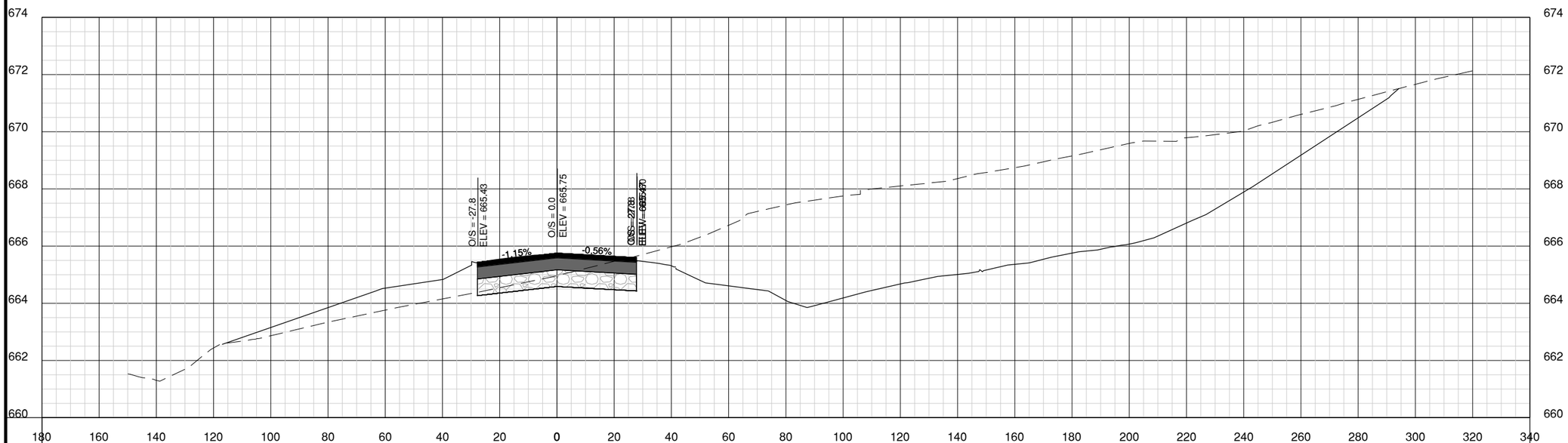
FED PROJ. NO.	3-17-SBGP-TBD
IL. PROJ. NO.	DNV-5110
CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
CHECKED BY:	MJD
APPROVED BY:	EMH
COPYRIGHT:	

SHEET TITLE

PROPOSED TAXIWAY A2 CROSS SECTIONS 2

CG306

SHEET 56 OF 57



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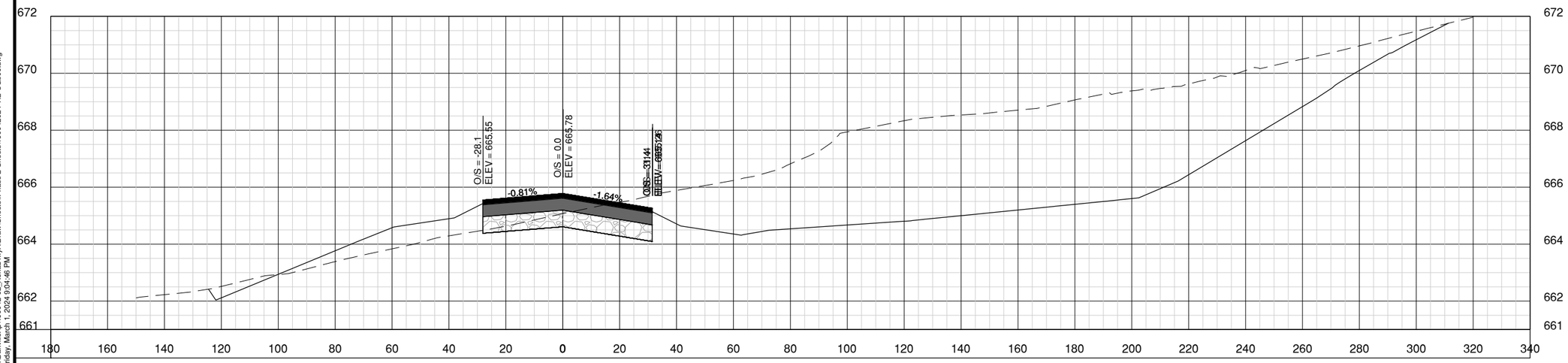

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REALIGN TAXIWAY A PH 2: TAXIWAY A2 & THE CONNECTING TAXIWAY A TO RUNWAY 16/34

OWNER

VERMILION REGIONAL AIRPORT

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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CMT PROJECT NO:	190042-02-20
CAD DWG FILE:	19004202-PH2-CG300.DWG
DESIGNED BY:	EMH
DRAWN BY:	CMT
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SHEET TITLE

PROPOSED TAXIWAY A2 CROSS SECTIONS 3

CG307

SHEET 57 OF 57