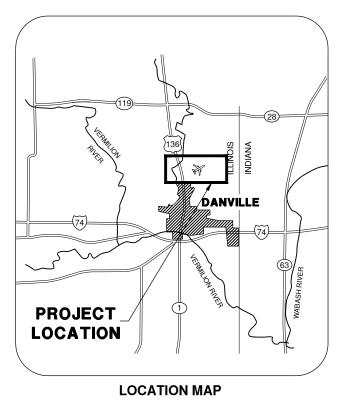
TOTAL SHEETS: 70 VE055

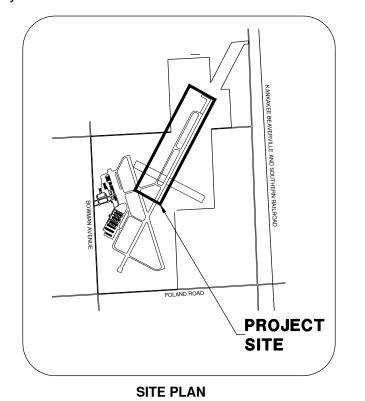
# CONSTRUCTION PLANS FOR VERMILION REGIONAL AIRPORT AUTHORITY

VERMILION REGIONAL AIRPORT DANVILLE, ILLINOIS

IL. PROJ. NO. DNV-4742 FED PROJ. NO. 3-17-SBGP-156/162 REALIGN TAXIWAY A - PHASE 1

**JUNE 18, 2021** 





EXP INTERIOR HILLS OF THE PROFESSIONAL BERNELL OF THE PROF

COMMON TRAFFIC ADVISORY FREQUENCY 122.7

APPROXIMATE MAXIMUM HEIGHT OF EQUIPMENT
ABOVE GROUND IS 25 FT.

APPROVED DATE 6/18/21

License No. 184-000613 © Copyright CMT, Inc.

SUBMITTED BY

True 18, 2021

CMT JOB NUMBER: 190042-02

Know what's **below**.

Call before you

COMMON GROUND ALLIANCE www.call811.com or

HE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND TITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING CUCHATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH CILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND ITILITIES, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE INITITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND SISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE VORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE E ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL MINEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE NOTIFY 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

DNV-4742-GIOC
TE BY: Andrew (
DATE: 6/18/20



SPEC.				
ITEM	ITEM	DESCRIPTION	QUANTITY	UNIT
101	AR106910	REMOVE LIGHT FIXTURE	15	EA
108	AR108108	1/C #8 5 KV UG CABLE	80	LF
108	AR108158	1/C #8 5 KV UG CABLE IN UD	6,420	LF
108	AR108208	2/C #8 5 KV UG CABLE	100	LF
108	AR108258	2/C #8 5 KV UG CABLE IN UD	660	LF
108	AR108706	1/C #6 COUNTERPOISE	6,120	LF
101	AR108960	REMOVE CABLE	5,670	LF
110	AR110102	DUCT MARKER - IN PAVEMENT	2	EA
110	AR110504	4-WAY CONCRETE ENCASED DUCT	75	LF
125	AR125100	ELEVATED RETROREFLECTIVE MARKER	7	EA
125	AR125410	MITL - STAKE MOUNTED	53	EA
125	AR125415	MITL - BASE MOUNTED	16	EA
125	AR125442	TAXI GUIDANCE SIGN, 2 CHARACTER	1	EA
125	AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	2	EA
125	AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	1	EA
125	AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	1	EA
101	AR125904	REMOVE TAXI GUIDANCE SIGN	7	EA
101	AR125913	REMOVE EDGE LIGHT	83	EA
150	AR150510	ENGINEER'S FIELD OFFICE	1	LS
105	AR150520	MOBILIZATION	1	LS
152	AR152410	UNCLASSIFIED EXCAVATION	12,275	CY
152	AR152490	CRUSHED AGGREGATE BACKFILL	600	CY
152	AR152515	SUBGRADE UNDERCUT	1,200	CY
102	AR156510	SILT FENCE	600	LF
152	AR156513	SEPARATION FABRIC	1,150	SY
102	AR156515	STRAW WATTLE	60	LF
102	AR156520	INLET PROTECTION	3	EA
209	AR209611	CRUSHED AGGREGATE BASE COURSE - 11"	11,230	SY
401	AR401610	BITUMINOUS SURFACE COURSE	1,540	TON
101	AR401650	BITUMINOUS PAVEMENT MILLING	1,100	SY
101	AR401655	BUTT JOINT CONSTRUCTION	255	SY
101	AR401921	REMOVE PAVEMENT	9,900	SY
403	AR403610	BITUMINOUS BASE COURSE	2,630	TON
602	AR602510	BITUMINOUS PRIME COAT	3,430	GAL
603	AR603510	BITUMINOUS TACK COAT	1,840	GAL
620	AR620520	PAVEMENT MARKING - WATERBORNE	3,900	SF
620	AR620525	PAVEMENT MARKING - BLACK BORDER	4,960	SF
620	AR620900	PAVEMENT MARKING REMOVAL	1,370	SF
701	AR701524	24" RCP, CLASS IV	10	LF
101	AR701900	REMOVE PIPE	10	LF
705	AR705524	4" PERFORATED UNDERDRAIN W/SOCK	3,945	LF
705	AR705544	4" NON-PERFORATED UNDERDRAIN	285	LF
751	AR705635	UNDERDRAIN COLLECTION STRUCTURE	2	EA
751	AR705640	UNDERDRAIN CLEANOUT	11	EA
705	AR705645	UNDERDRAIN CONNECTION	2	EA
101	AR705904	REMOVE UNDERDRAIN CLEANOUT	3	EA
751	AR751411	INLET - TYPE A	1	EA
101	AR751900	REMOVE INLET	1	EA
901	AR901510	SEEDING	11	AC
904	AR904510	SODDING	1,710	SY
905	AR905520	TOPSOILING (FROM OFFSITE)	2,400	CY
908	AR908514	LIGHT-DUTY HYDRAULIC MULCH	11	AC

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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162 IL. PROJ. NO. DNV-4742

CONTRACT: VE055 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-GI002.DWG DESIGNED BY: AJG DRAWN BY: CHECKED BY: MJD APPROVED BY: EMH

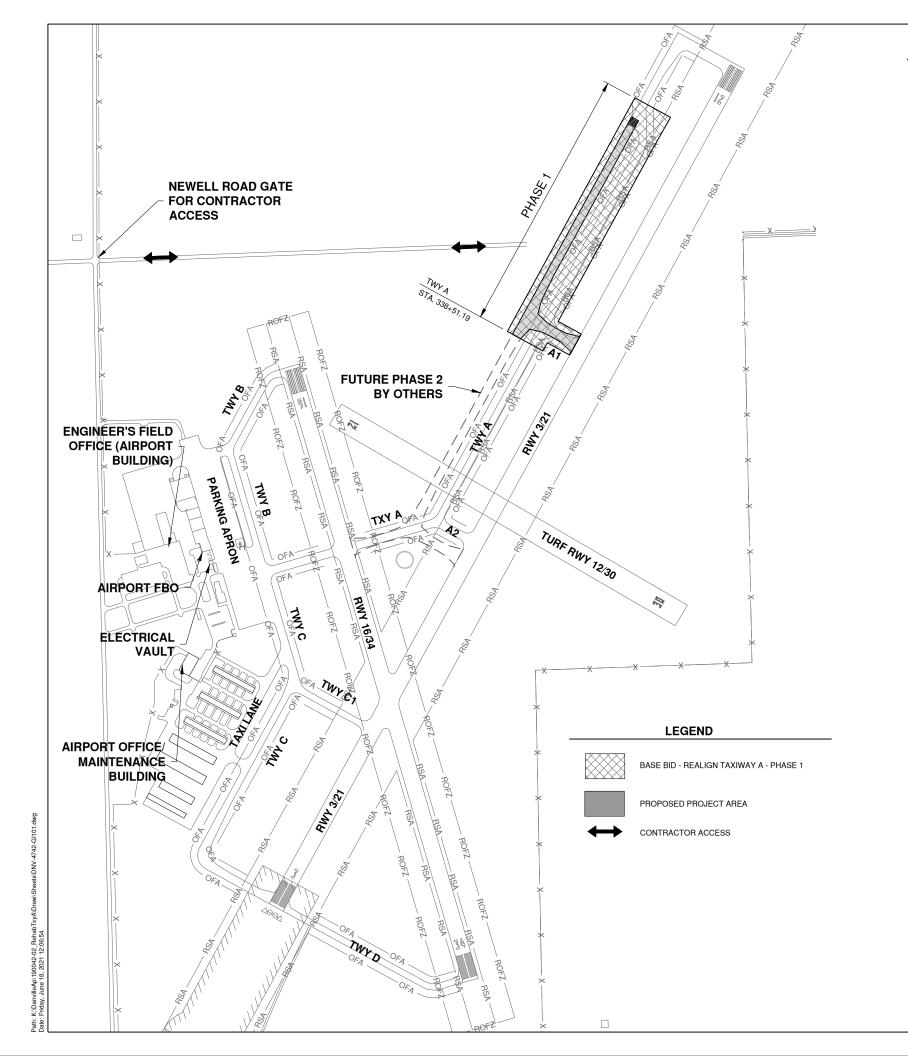
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SHEET TITLE

INDEX TO SHEETS & SUMMARY OF QUANTITIES

GI002

SHEET 2 OF 70

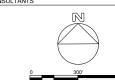


## **GENERAL NOTES**

- 1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
- 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.
- 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.
- 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.
- 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.
- . THE CONTRACTOR SHALL CONTINUOUSLY CLEAN CONSTRUCTION AREAS WHICH WILL BE OPENED TO AIR TRAFFIC.
- 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.
- . CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
- A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY
- 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
- I. 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.



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

JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-GI101.DWG

DESIGNED BY: AJG

DRAWN BY: CMT

CHECKED BY: MJD

APPROVED BY: EM

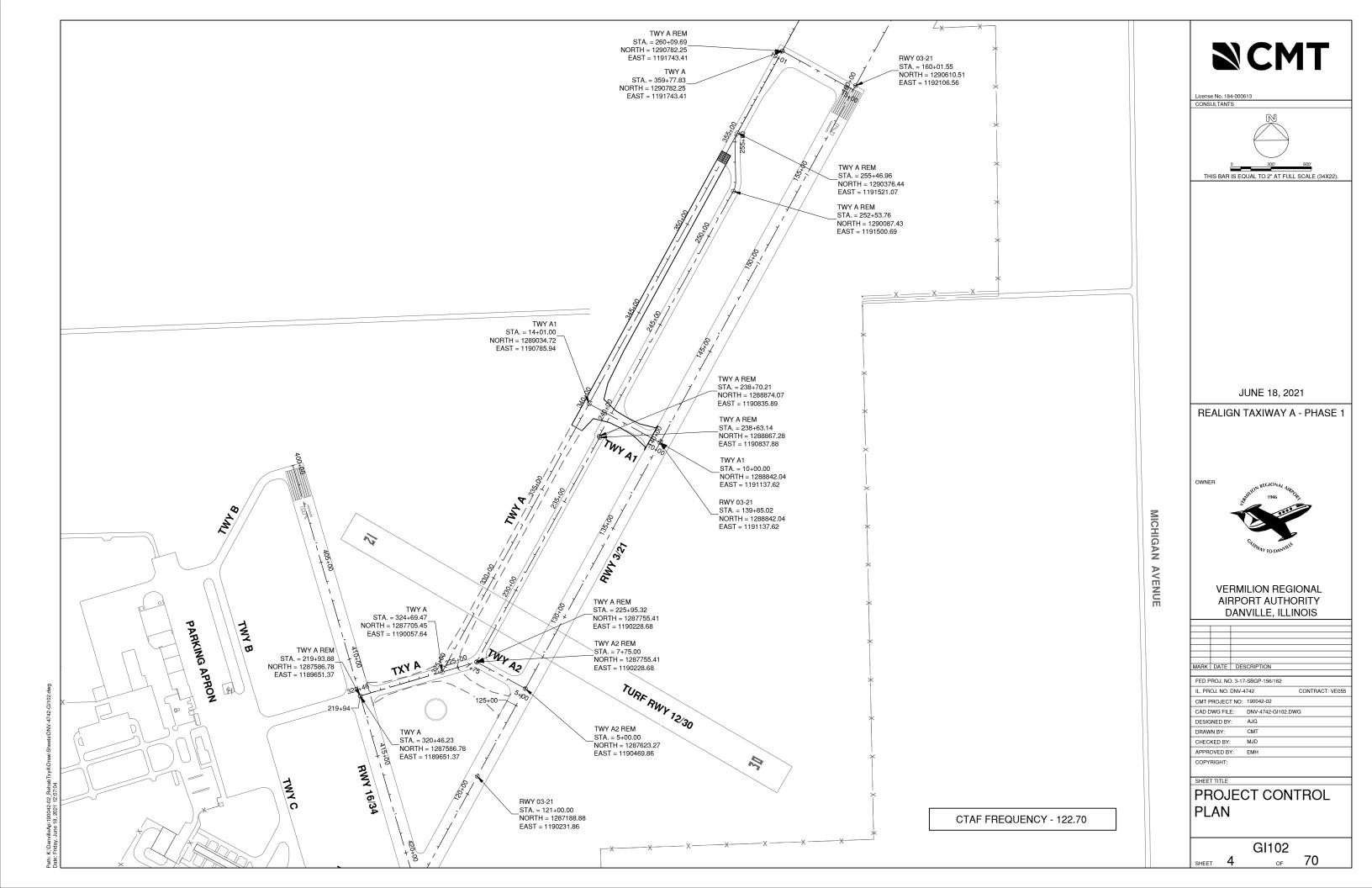
SHEET TITL

CTAF FREQUENCY - 122.70

AIRPORT SITE PLAN

GI101

SHEET 3 OF 70



## GENERAL

- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFFTY AND PHASING PLAN (CSPP), FAA AC 150/5370-2 (LATEST VERSION), AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
- 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.
- THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SIGN THE SWPPP CERTIFICATION STATEMENT
- 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.

#### 2. COORDINATION

- 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
- ON OR BEFORE THE PRECONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE LIPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
- 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.

## 3. PHASING

PHASING SHALL BE AS SHOWN ON THE CONSTRUCTION ACTIVITY

### AREAS AND OPERATIONS AFFECTED BY THE **CONSTRUCTION ACTIVITY**

- ALL BLINWAYS TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS ALLOWED
- 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
- ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.

## PROTECTION OF NAVIGATION AIDS (NAVAIDS)

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

## 6. CONTRACTOR ACCESS

- 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.
- 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
- 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 ADAMS COUNTY, ILLINOIS.
- 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'.
- DRIVERS OF TRUCKS CONTAINING MATERIAL DELIVERIES (AGGREGATE, CONCRETE, ETC.) SHALL BE UNDER THE CONTROL OF AND SUPERVISED BY THE CONTRACTOR.
- CONTRACTOR WORK CREWS MUST MAINTAIN RADIO CONTACT WITH AIR TRAFFIC AT ALL TIMES WHEN WITHIN THE 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.
- 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 OWN FLAGMEN.
- THE CONTRACTORS STORAGE AND STAGING AREAS WILL BE AS SHOWN IN THE PLANS.
- 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
- WHEN THE CONTRACTOR IS NOT WORKING FOLIPMENT SHALL BE RETURNED TO & STORED AT THE STAGING AREA.
- 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.
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT 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.
- THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL BOUTES 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

## 6. CONTRACTOR ACCESS (CONTINUED)

- 14. 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
- ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR.

## 7. WILDLIFE MANAGEMENT

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

## 8. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

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

## 9. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

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

## 10. NOTIFICATION OF CONSTRUCTION ACTIVITIES

- THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
- 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
- IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL

## 11. INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2 (LATEST VERSION) MAY BE USED TO AID IN THE INSPECTIONS
- 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

## 12. UNDERGROUND UTILITIES

- 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. 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.
- 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.

## 13. 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.
- 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.

#### 14. SPECIAL CONDITIONS

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

## 15. RUNWAY AND TAXIWAY VISUAL AIDS

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN
- 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.)
- IMMEDIATELY UPON THE INITIATION OF EACH PROJECT PHASE, 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

## 16. MARKING AND SIGNS FOR ACCESS ROUTES

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

## 17. HAZARD MARKING AND LIGHTING

- THE CONTRACTOR SHALL FURNISH, FRECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
- 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
- BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE AIRPORT.
- 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.

## 18. WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCTION

- THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING DURING NIGHTTIME CONSTRUCTION.
- 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.
- ARTIFICIAL AREA LIGHTING SHALL NOT RESTRICT OR VISUALLY INTERFERE WITH AIR TRAFFIC.
- PLACEMENT & AIMING OF ARTIFICIAL LIGHTING SHALL BE APPROVED BY THE AIRPORT PRIOR TO START OF OPERATIONS.

# 19. PROTECTION OF AREAS & SURFACES

- ALL WORK REQUIRED INSIDE OF THE RUNWAY 3/21 OR 16/34 SAFETY AREAS, WHICH EXTENDS 250' FROM THE BUNWAY 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
- 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.

icense No. 184-000613

CONSULTANTS

JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION			
FED PROJ. NO. 3-17-SBGP-156/162					
II. PROJ. NO. DNV-4742			CONTRACT: VE05		

CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-GI003.DWG

DESIGNED BY: A.IG DRAWN BY: CHECKED BY: MJD

APPROVED BY: COPYRIGHT

CONSTRUCTION **ACTIVITY PLAN** NOTES 1

GC001

(NOTES CONTINUE ON SHEET GC002)

OF

## (NOTES CONTINUED FROM SHEET GC001)

## 20. OTHER LIMITATIONS ON CONSTRUCTION

- IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.
- 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.

# 21. AIRPORT SECURITY REQUIREMENTS

- 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.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING AIRPORT SECURITY BY SUPERVISING OPENINGS OR MAINTAINING THE AIRPORT PERIMETER FENCE LINE AT ALL TIMES.
- THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR.
- THE CONTRACTOR SHALL INSTALL AND USE TEMPORARY GATES FOR ACCESS TO THE AIRFIELD. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR HIS PADLOCK TO THE RESIDENT ENGINEER, THE MAINTENANCE SUPERVISOR, AND THE SECURITY CHIEF. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE RESIDENT ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE INSTALLATION AND REMOVAL OF TEMPORARY ACCESS GATES.
- THE CONTRACTOR SHALL PROVIDE A SIGN AT ALL ACCESS GATES STATING "AUTHORIZEDERSONNEL ONLY." ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

IARK	DATE	DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-GI003.DWG

DESIGNED BY: AJG

DRAWN BY:

MJD CHECKED BY:

APPROVED BY: EMH COPYRIGHT

SHEET TITLE

CONSTRUCTION **ACTIVITY PLAN** 

GC002

of **70** 

SHEET 6

NOTES 2

CONTRACT: VE055

# **GENERAL PHASING NOTES**

- 1. THE CONTRACTOR SHALL PROVIDE 72 HOUR NOTICE PRIOR TO INITIATING WORK ON ANY PHASE
- 2. THE CONTRACTOR SHALL PLACE ALL RUNWAY CLOSURE MARKERS, TAXIWAY CLOSURE MARKERS, AND BARRICADES PRIOR TO STARTING WORK ON ANY PHASE.
- 3. BEAM BARRICADES SHALL BE PLACED AT 250 FEET FROM RUNWAY CENTERLINES, 59 FEET FROM TAXIWAY CENTERLINES, AS SHOWN ON THE PLANS OR AS SPECIFIED BY THE RPR.
- 4. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN ACTIVE PAVEMENTS DURING HAULING OPERATIONS AND AT THE END OF EACH WORKDAY.
- 5. AIRCRAFT & AIRPORT VEHICLES SHALL HAVE THE RIGHT OF WAY AT ALL TIMES.
- 6. THE CONTRACTOR SHALL MONITOR CTAF AT ALL TIMES DURING CONSTRUCTION OPERATIONS.
- 7. SHOULD THE CONTRACTOR CHOOSE TO USE MULTIPLE CONSTRUCTION CREWS IN MULTIPLE LOCATIONS TO PERFORM THE WORK, MULTIPLE FLAGMEN / RADIO OPERATORS WILL BE REQUIRED FOR EACH CREW.

FAA AIRSPACE CRITICAL POINT TABLE

GROUND

ELEVATION

696'

695'

696'

694'

629'

687'

682'

684'

672'

663'

668'

664'

HEIGHT

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

25'

LONGITUDE

W87° 35' 20.78"

W87° 35' 23.37'

W87° 35' 21.83"

W87° 35' 23.86"

W87° 35' 35.37"

W87° 35' 33.68"

W87° 35' 34.98"

W87° 35' 37.24"

W87° 35' 40.96"

W87° 35' 40.93"

W87° 35' 47.16"

W87° 35' 47.18"

W87° 35' 41.83"

W87° 35' 50.40"

W87° 35' 47.40"

LATITUDE

N40° 12' 29.96"

N40° 12' 31.07"

N40° 12' 28.51"

N40° 12' 29.38"

N40° 12' 13.59"

N40° 12' 12.86"

N40° 12' 11.07"

N40° 12' 12.04"

N40° 12' 14.67"

N40° 12' 17.37"

N40° 12' 17.41"

N40° 12' 14.70"

N40° 12' 04.82"

N40° 12' 00.21"

N40° 11' 53.04"

N40° 11' 48.18" | W87° 35' 50.97"

**POINT** 

2

3

4

5

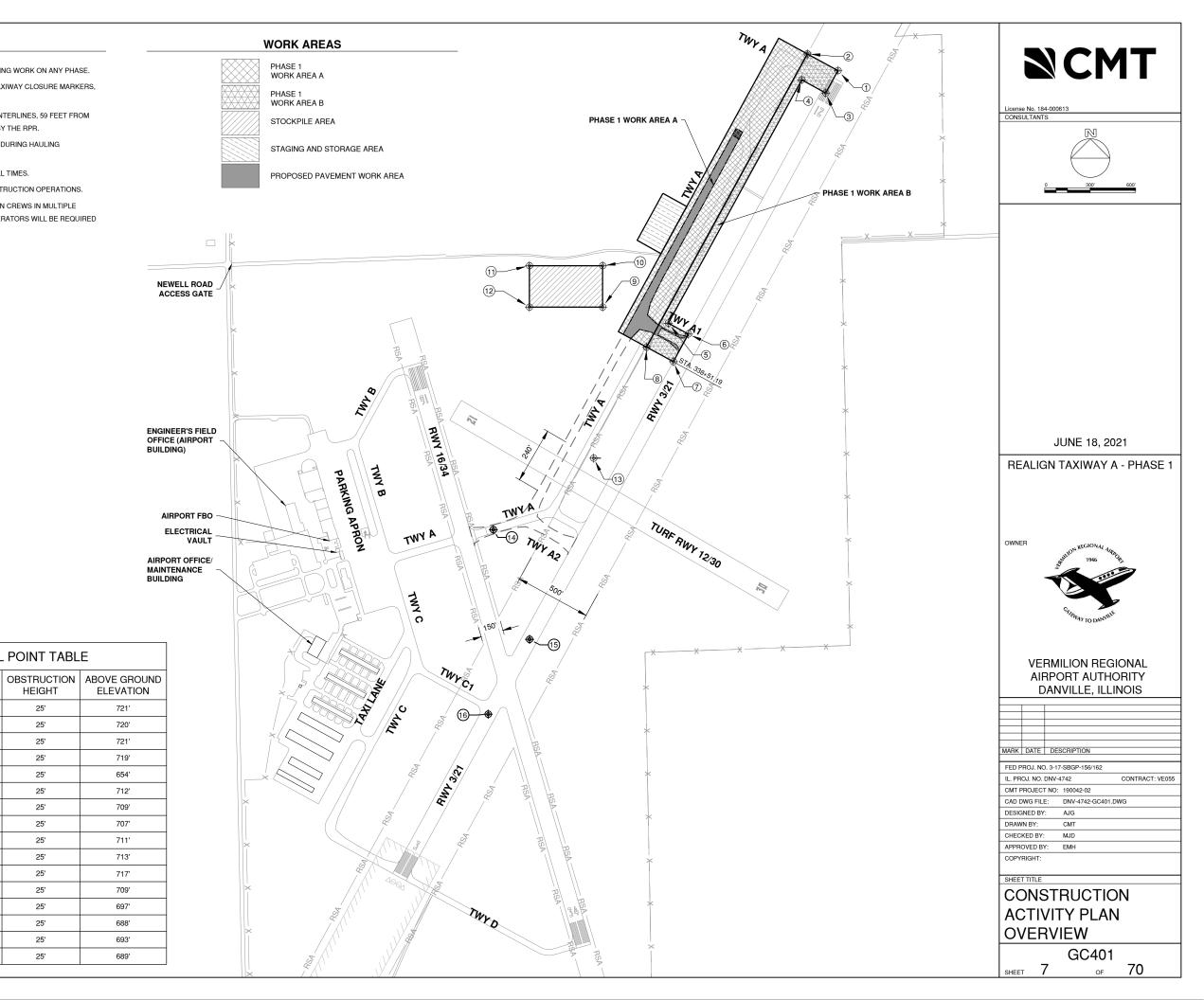
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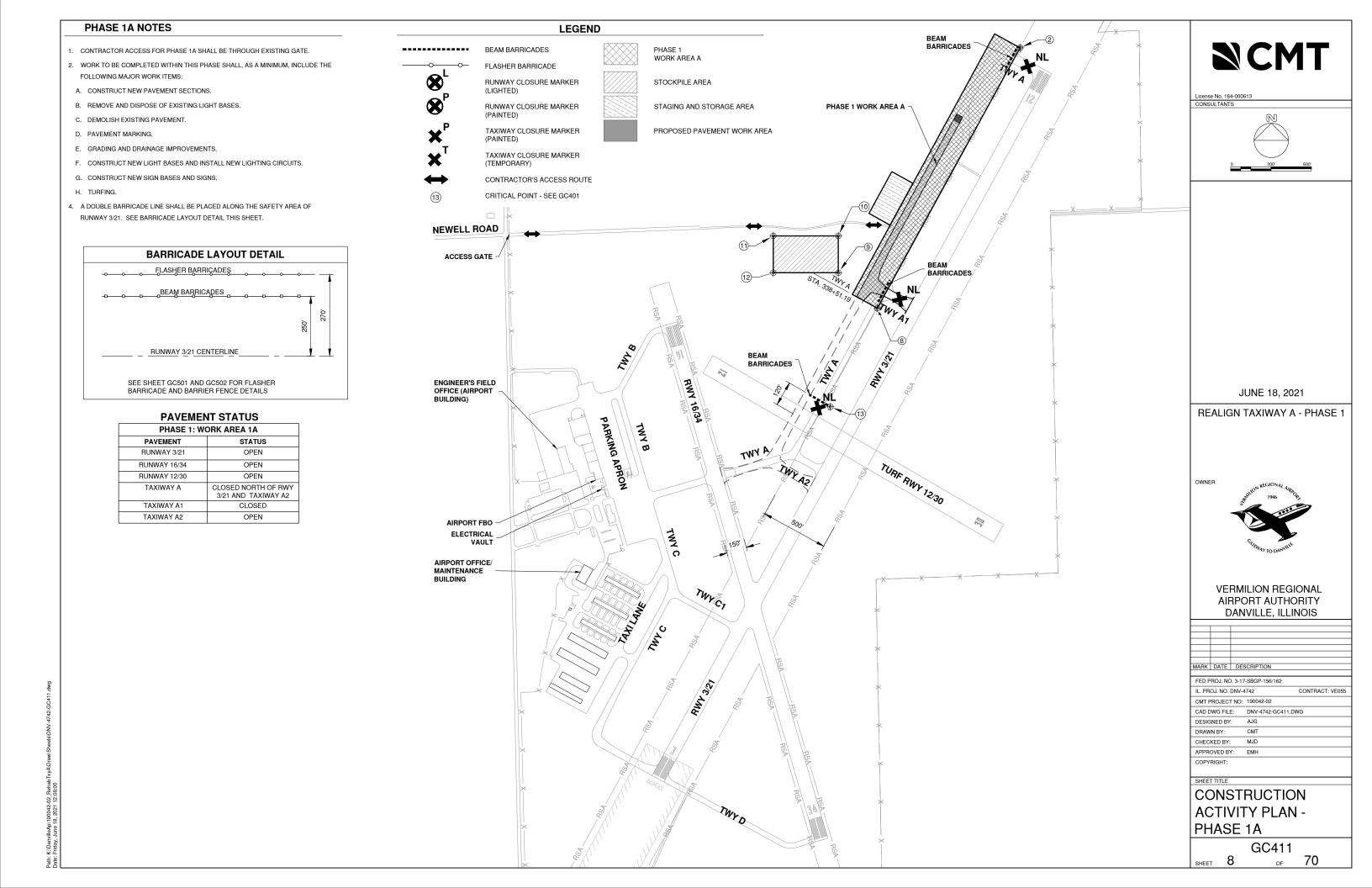
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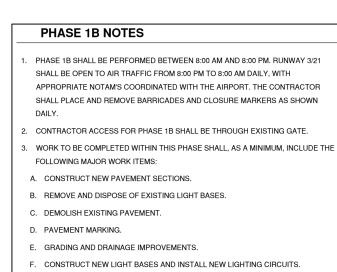
11

12

14







4. CONTRACTOR SHALL REMOVE ALL RUNWAY 3/21 CLOSURE ITEMS AT THE END OF

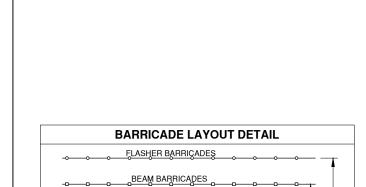
5. A DOUBLE BARRICADE LINE SHALL BE PLACED ALONG THE SAFETY AREA OF RUNWAY 3/21. SEE BARRICADE LAYOUT DETAIL THIS SHEET.

6. IN LIEU OF BEAM BARRICADES, CONTRACTOR MAY USE LIGHTED CONES WHERE NEEDED TO DESIGNATE A RUNWAY CLOSURE. SEE DETAIL 5, GC501.

G. CONSTRUCT NEW SIGN BASES AND SIGNS.

H. GRADING & TURFING.

FACH DAYS WORK PERIOD

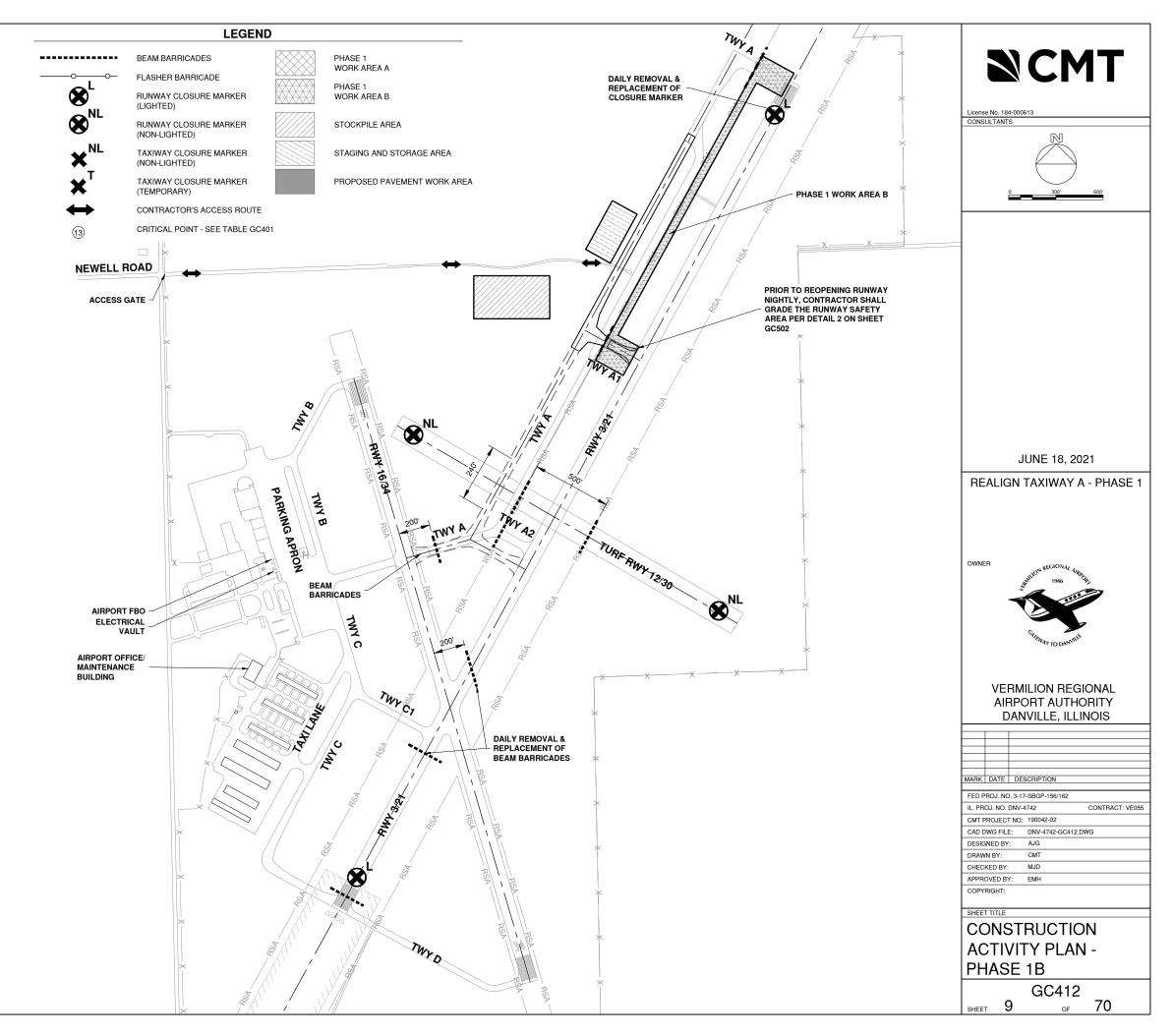


SEE SHEET GC501 AND GC502 FOR FLASHER BARRICADE AND BARRIER FENCE DETAILS

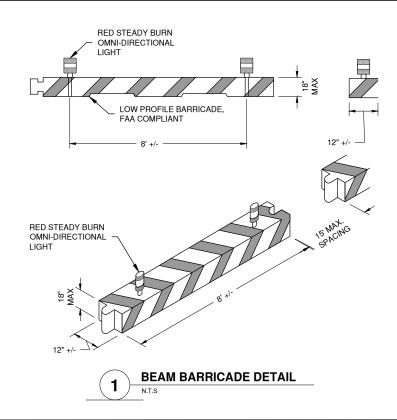
**RUNWAY 3/21 CENTERLINE** 

### PAVEMENT STATUS

PAVEMENT STATUS			
PHASE 1: WORK AREA 1B			
PAVEMENT	STATUS		
RUNWAY 3/21	OPEN BETWEEN 8:00 PM & 8:00 AM. CLOSED BETWEEN 8:00 AM & 8:00 PM.		
RUNWAY 16/34	OPEN		
RUNWAY 12/30	CLOSED		
TAXIWAY A	CLOSED EAST OF RWY 16-34		
TAXIWAY A1	CLOSED		
TAXIWAY A2	CLOSED		

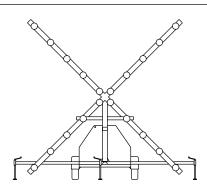


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## **BEAM BARRICADE NOTES**

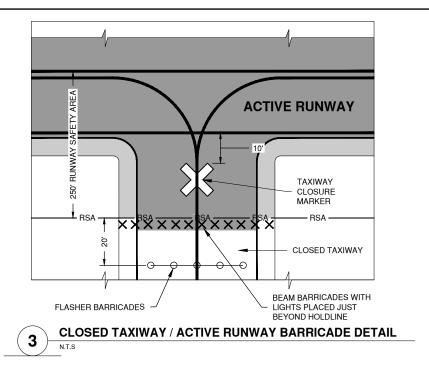
- BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
- 2. BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT
- NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE
- PLACE AS SHOWN IN PLANS AND AS DIRECTED BY THE **FNGINFFR**
- BARRICADES SHALL BE COMPLIANT WITH FAA AC 150/5370-2 (LATEST VERSION).

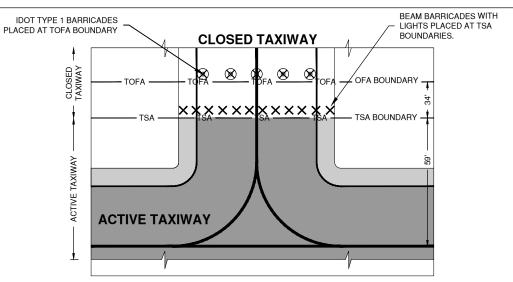




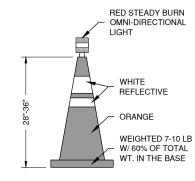
# LIGHTED RUNWAY CLOSURE MARKER NOTES

- TO BE PLACED ON PAVEMENT AT THE RUNWAY NUMERALS FOR NIGHTTIME CLOSURE.
- 2. THE CONTRACTOR SHALL PROVIDE FOUR 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





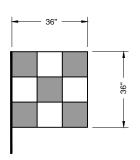




# LIGHTED CONE DETAIL 5

# **LIGHTED CONE NOTES**

- 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.
- 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
- CONES MAY ONLY BE USED AS AN ALTERNATIVE TO IDOT TYPE 1 BARRICADES, NOT BEAM BARRICADES.
- 5. BARRICADES SHALL BE COMPLIANT WITH FAA AC 150/5370-2 (LATEST VERSION).
- BARRICADES SHALL BE PLACED WITH MAXIMUM 15' SPACING.



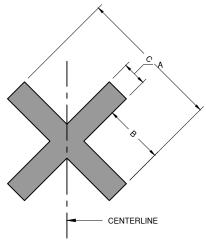


# **EQUIPMENT & VEHICLE SIGNAL FLAG DETAIL**

(ORANGE / WHITE)

## **SIGNAL FLAG NOTES**

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



'			
SYMBOL TYPE DIMENSION	Α	В	С
CLOSED TAXIWAY	5'-0"	12'-6"	30'-0"
CLOSED RUNWAY	10'-0"	25'-0"	60'-0"



# **NON-LIGHTED CLOSURE MARKER DETAIL**

## **NOTES**

- 1. CLOSURE MARKERS SHALL BE SOLID YELLOW.
- 2. MARKERS SHALL BE PLACED ON TAXIWAYS AT THE RUNWAY INTERSECTIONS INSIDE THE RUNWAY SAFETY
- MARKERS SHALL BE PLACED ON RUNWAYS TO COVER THE NUMERALS ON BOTH ENDS.
- MARKERS MAY BE CONSTRUCTED OF FABRIC, COLORED PLASTIC, PAINTED SHEETS OF PLYWOOD OR SIMILAR MATERIALS.
- 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.



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

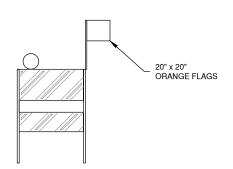
CONTRACT: VE05 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-GC500.DWG DESIGNED BY: A.IG DRAWN BY: MJD CHECKED BY: APPROVED BY:

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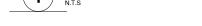
CONSTRUCTION **ACTIVITY PLAN DETAILS 1** 

> GC501 70

SHEET 10

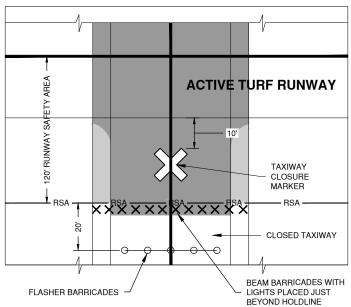


FLASHER BARRICADE DETAIL - IDOT TYPE 1

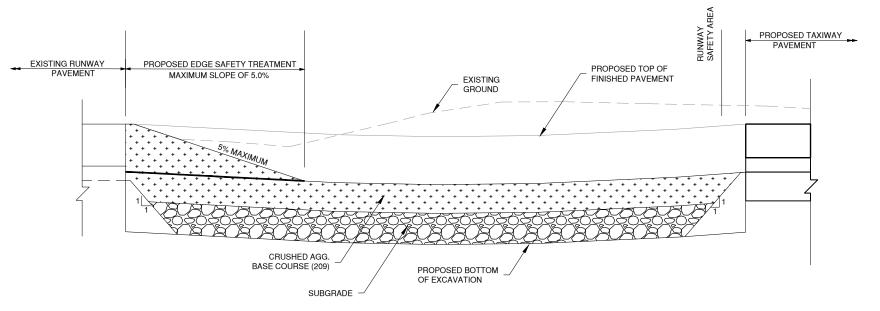


# FLASHER BARRICADE NOTES

- 1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90
- 2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
- 3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 4. PLACE AT 20' INTERVALS.



CLOSED TAXIWAY / ACTIVE TURF RUNWAY BARRICADE DETAIL 3



#### GENERAL NOTES:

- 1. A MAXIMUM 3" DROP OFF ALLOWED WITHIN THE RUNWAY SAFETY AREA. THE SAFETY AREA EXTENDS 250' FROM THE CENTERLINE
  OUTWARD. THE CONTRACTOR SHALL PLAN THEIR LIMITS OF WORK
- 2. EDGE TREATMENT MUST BE IN PLACE AT THE END OF EVERY WORK
- 3. EDGE TREATMENT MUST BE USED ON ALL PHASES OF CONSTRUCTION DONE WITHIN 250' OF THE RUNWAY CENTERLINE.
- 4. COST ASSOCIATED WITH PAVEMENT TRANSITION WILL BE INCIDENTAL TO

**PAVEMENT TRANSITION WITHIN RSA** 



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

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**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

CONTRACT: VE055 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-GC500.DWG DESIGNED BY: AJG

DRAWN BY: MJD CHECKED BY: APPROVED BY: EMH

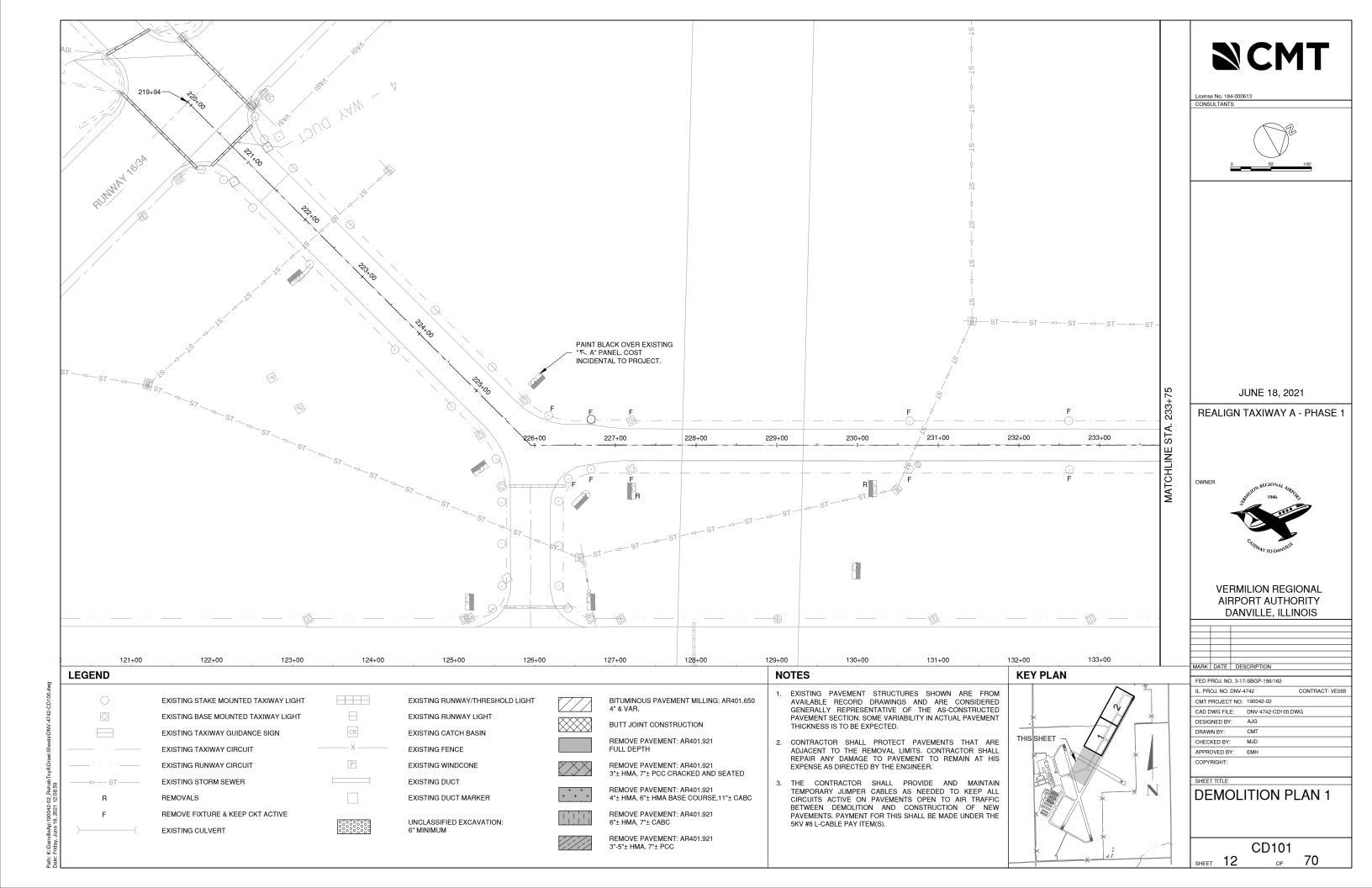
SHEET **11** 

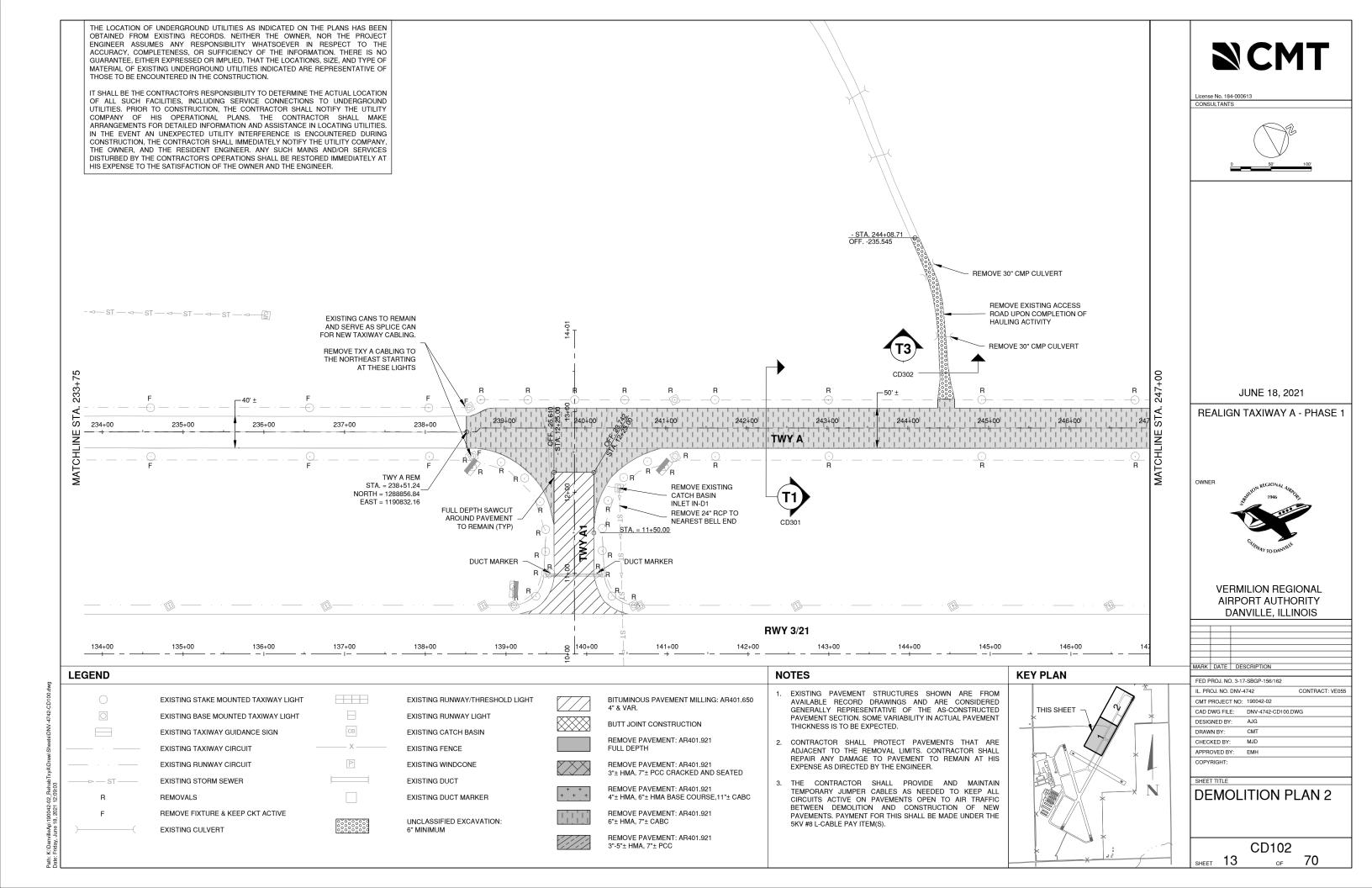
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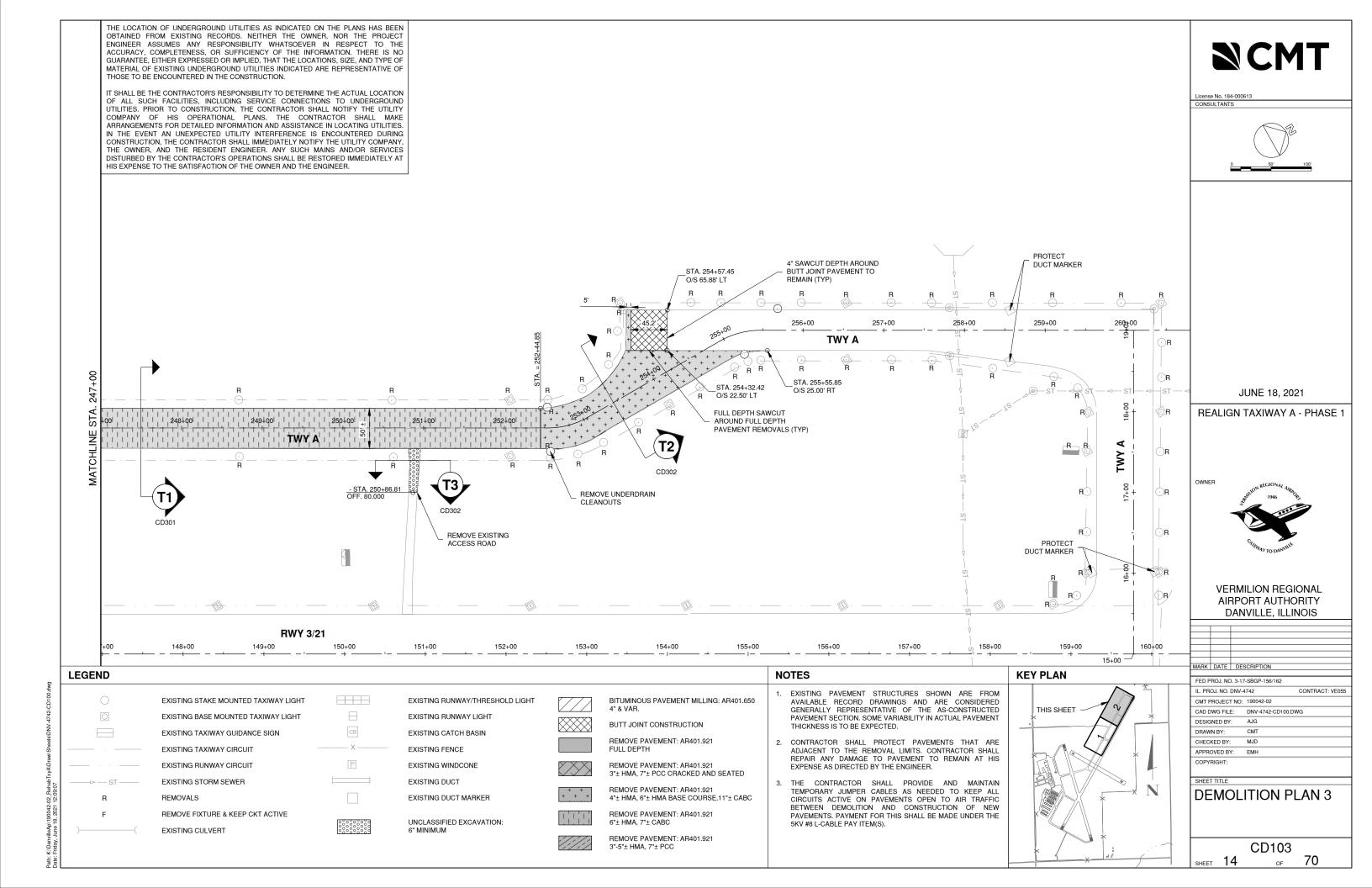
CONSTRUCTION ACTIVITY PLAN

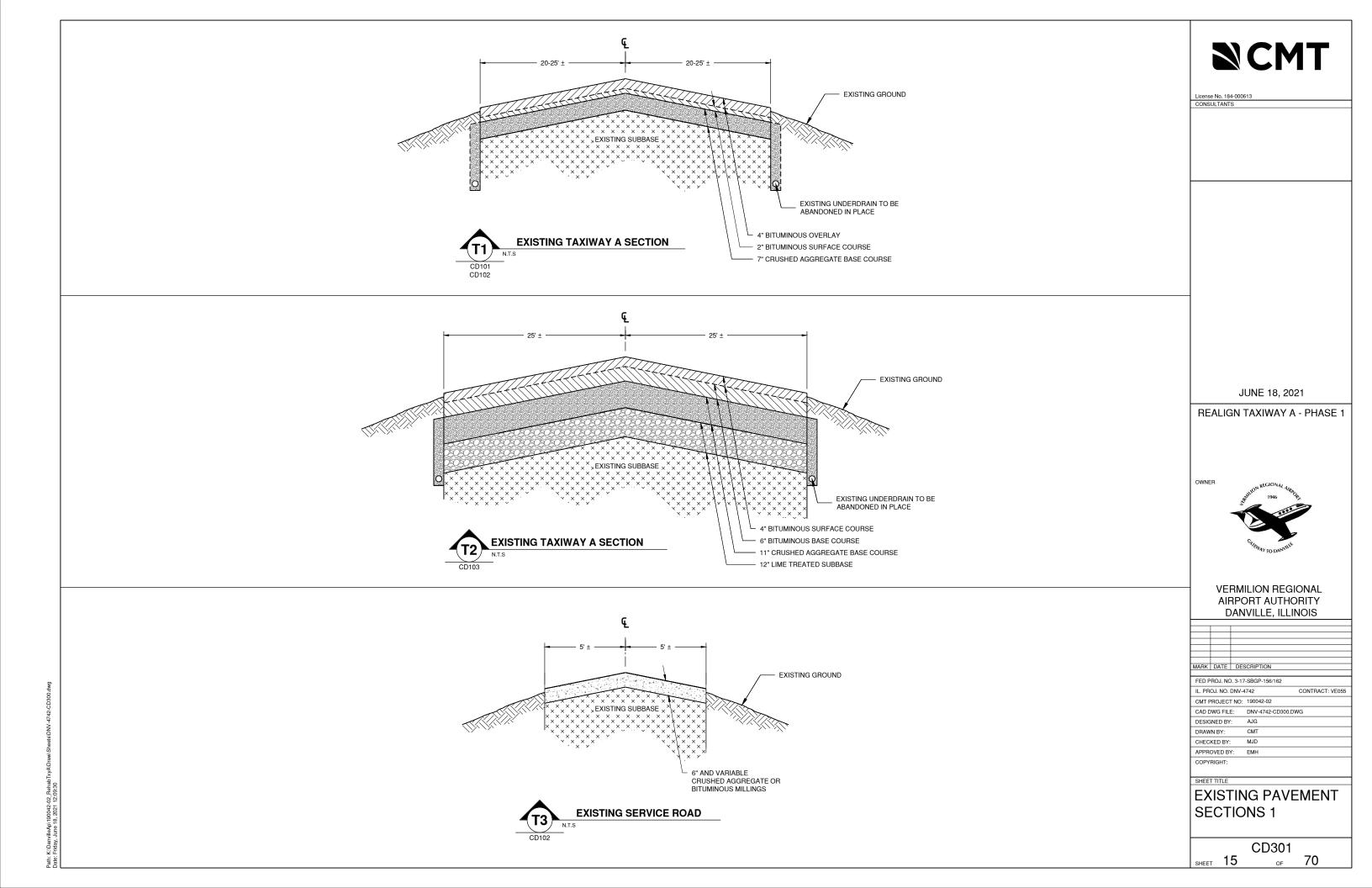
DETAILS 1 GC502

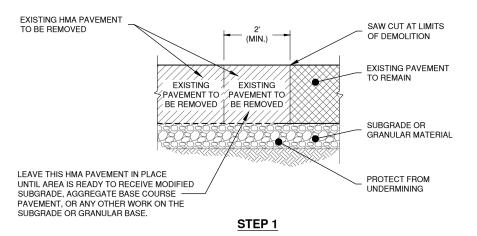
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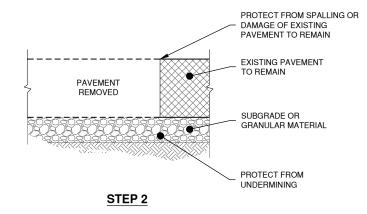








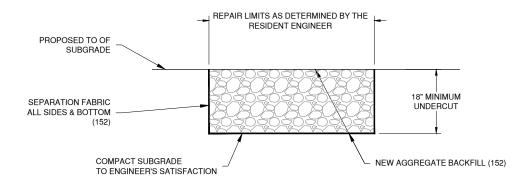






## **SAW CUT AND OTHER DEMOLITION NOTES**

- 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



SUBGRADE UNDERCUT & AGGREGATE BACKFILL

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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER

**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

CONTRACT: VE055 IL. PROJ. NO. DNV-4742

CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-CD500.DWG

DESIGNED BY: AJG

DRAWN BY:

MJD CHECKED BY:

APPROVED BY: EMH

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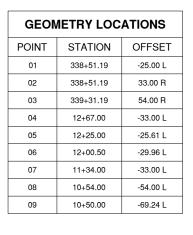
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**PAVEMENT DEMOLITION AND** SUBGRADE DETAILS 1

> CD501 70

SHEET 16

OF



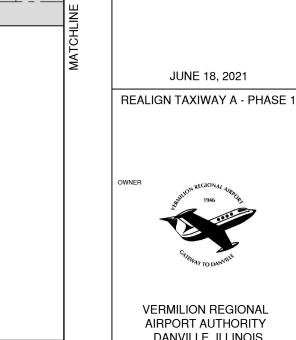
GEOMETRY LOCATIONS			
POINT	STATION	OFFSET	
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11	10+54.00	54.00 R	
12	11+34.00	33.00 R	
13	12+00.50	29.96 R	
14	12+25.00	23.74 R	
15	12+67.00	33.00 R	
16	340+39.19	54.00 R	
17	341+19.19	33.00 R	
18	342+94.19	25.00 R	
18	342+94.19	25.00 R	



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JUNE 18, 2021



THIS SHEET

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162 IL. PROJ. NO. DNV-4742

CONTRACT: VE055 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CP100.DWG

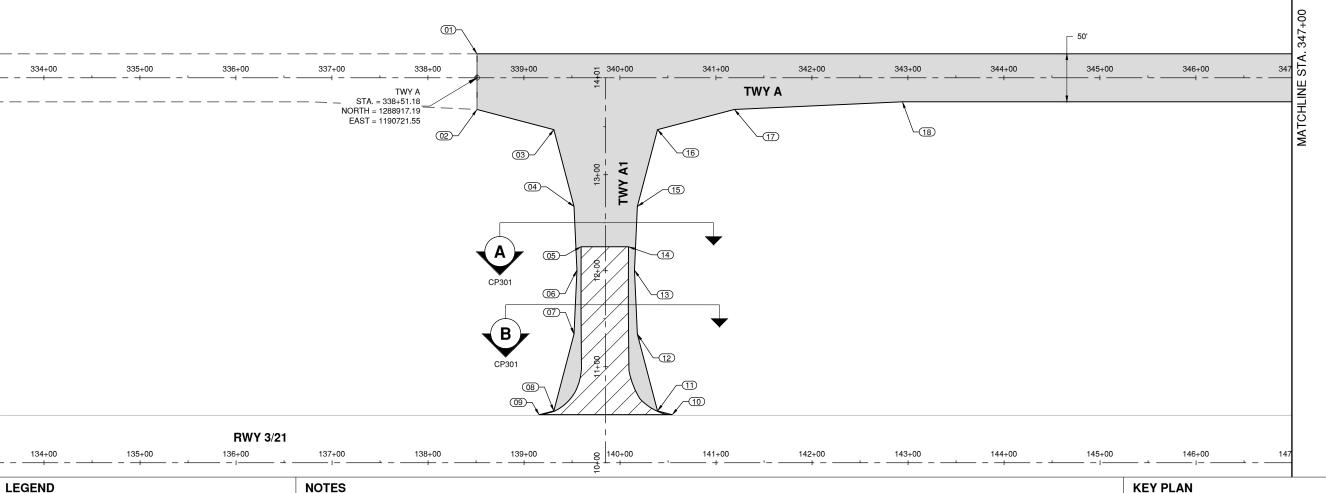
DANVILLE, ILLINOIS

DESIGNED BY: AJG DRAWN BY: MJD CHECKED BY:

APPROVED BY: EMH COPYRIGHT:

PAVEMENT **GEOMETRY PLAN 1** 

CP101 70 SHEET 17



NEW 4" & VAR. OVERLAY

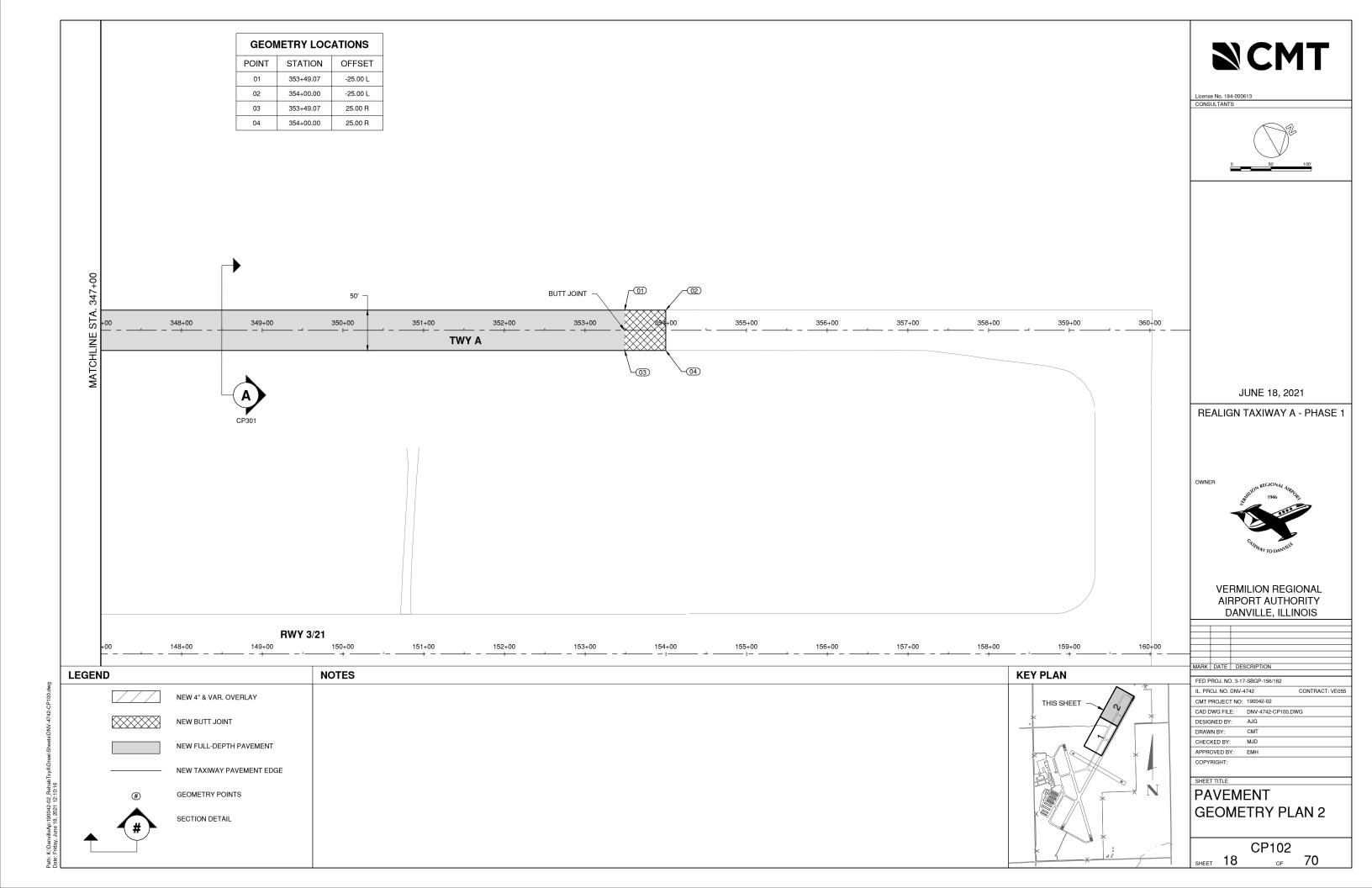
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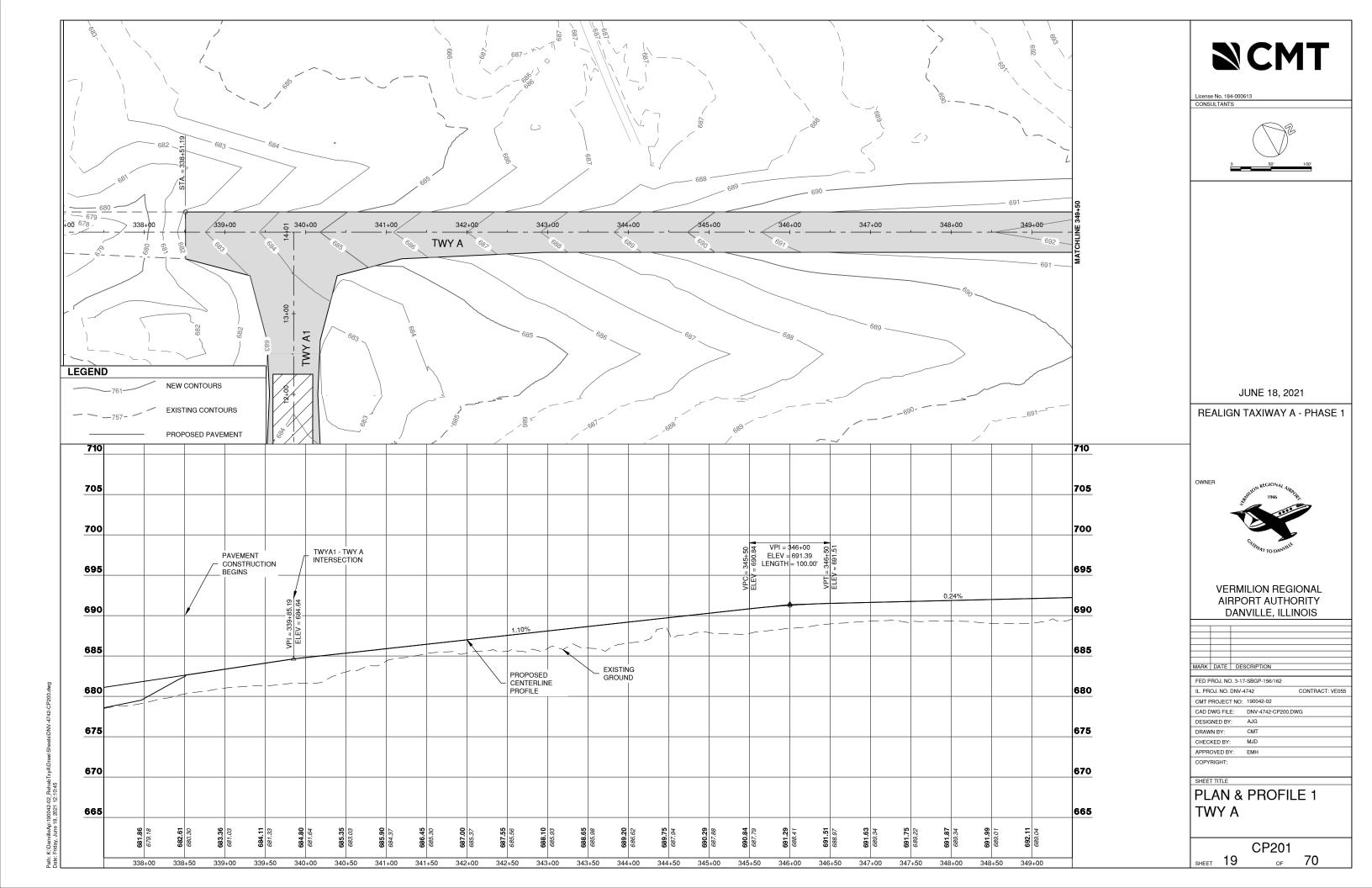
NEW FULL-DEPTH PAVEMENT

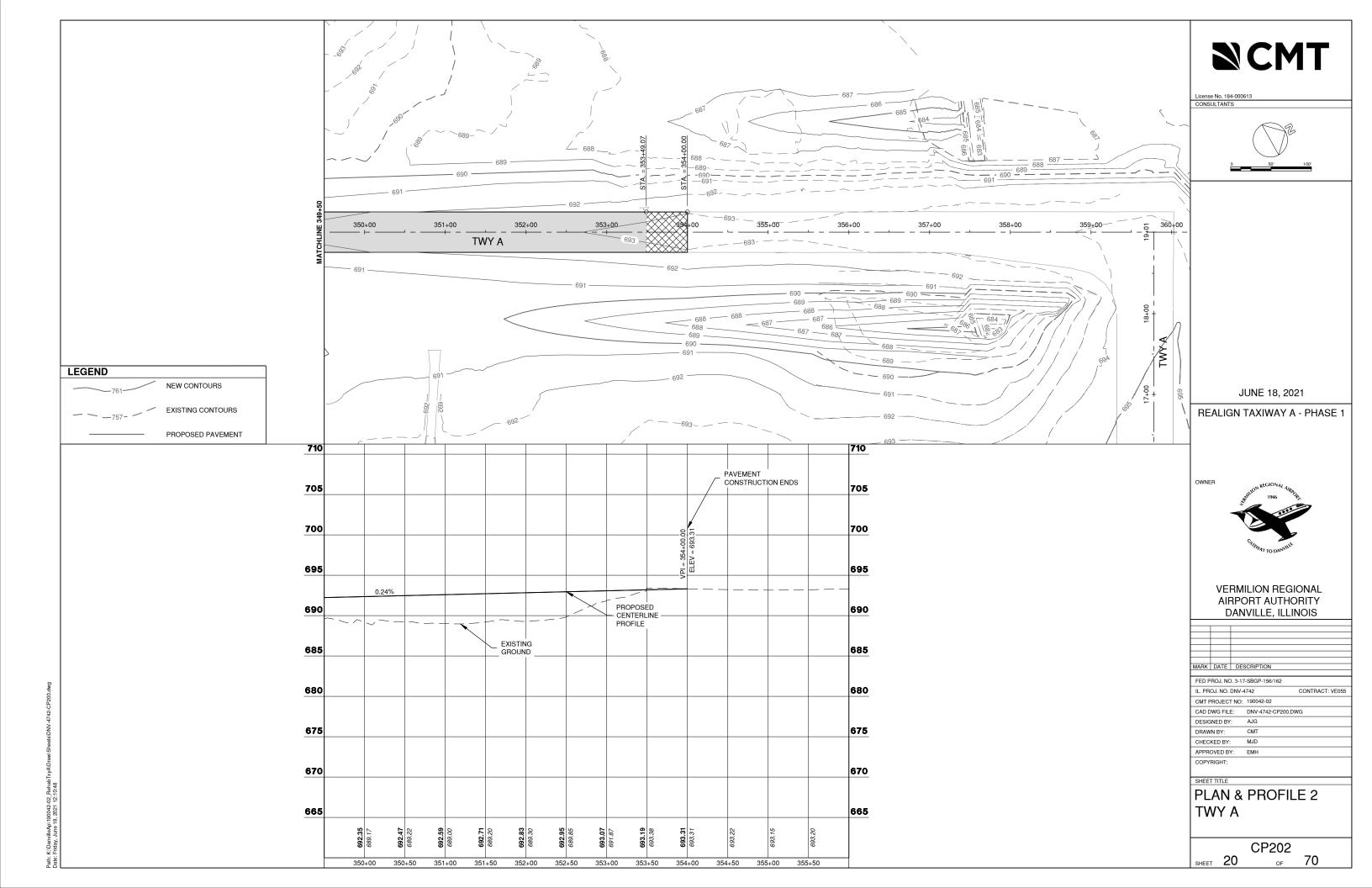
NEW TAXIWAY PAVEMENT EDGE

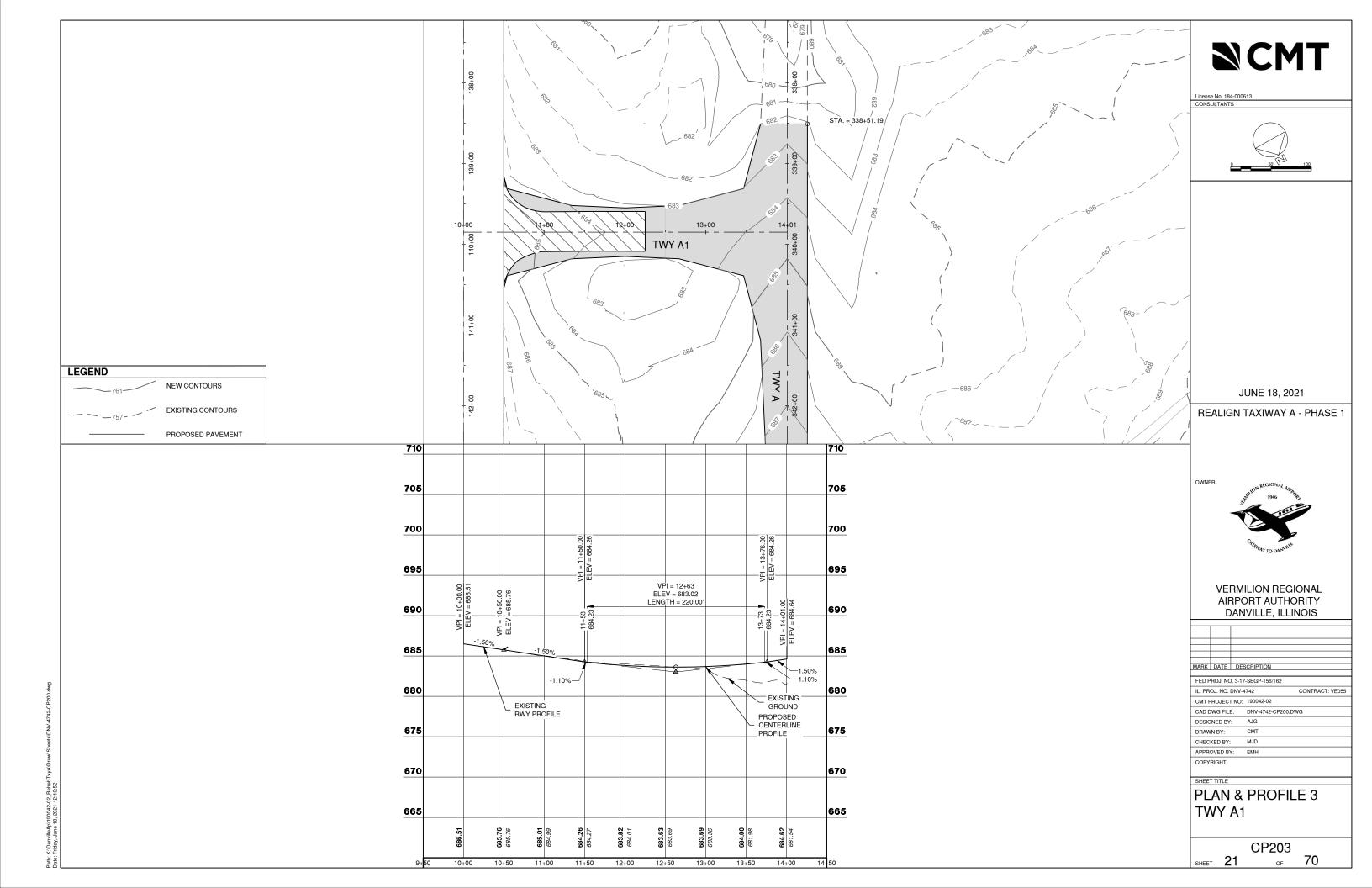
GEOMETRY POINTS

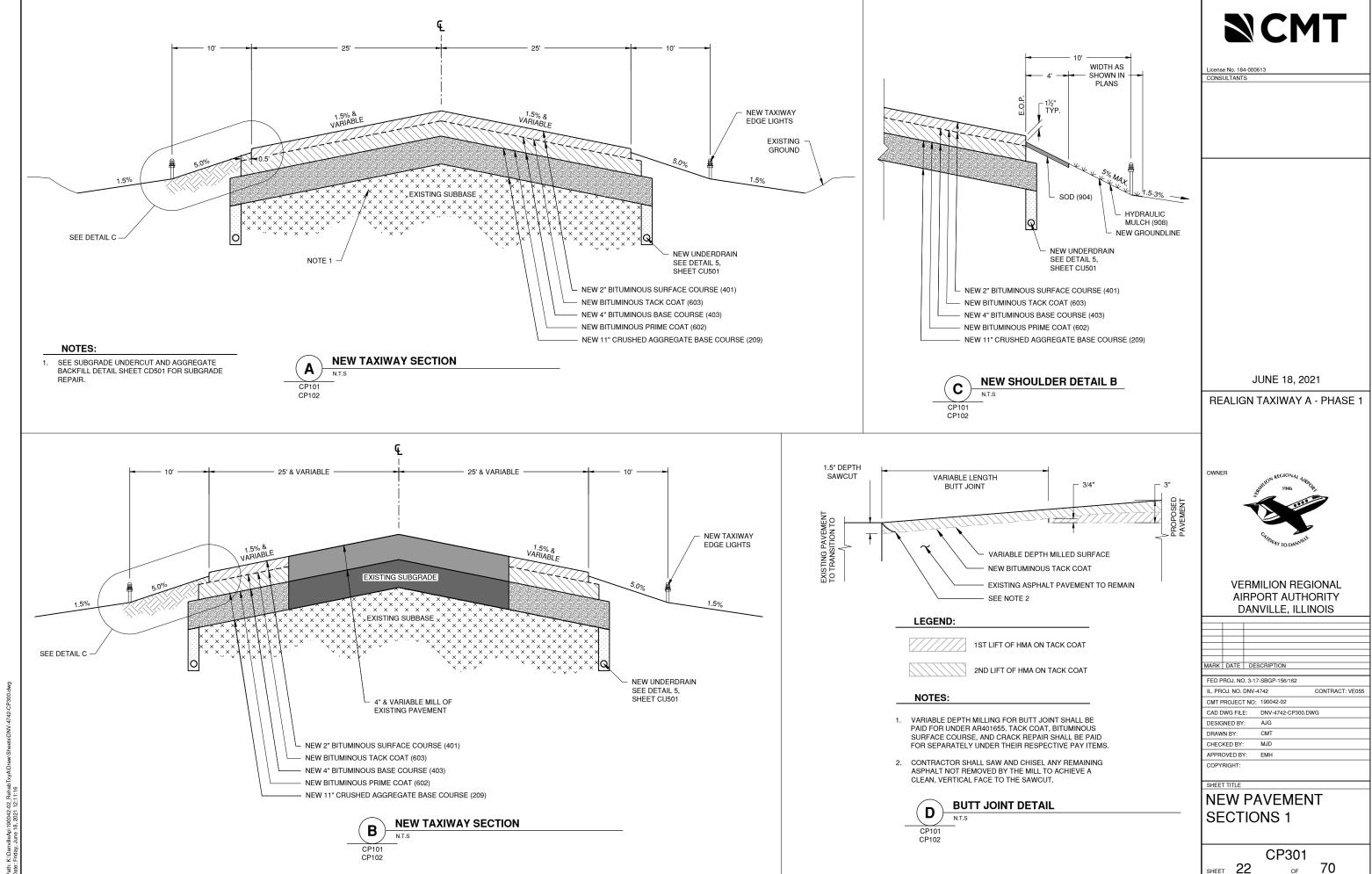
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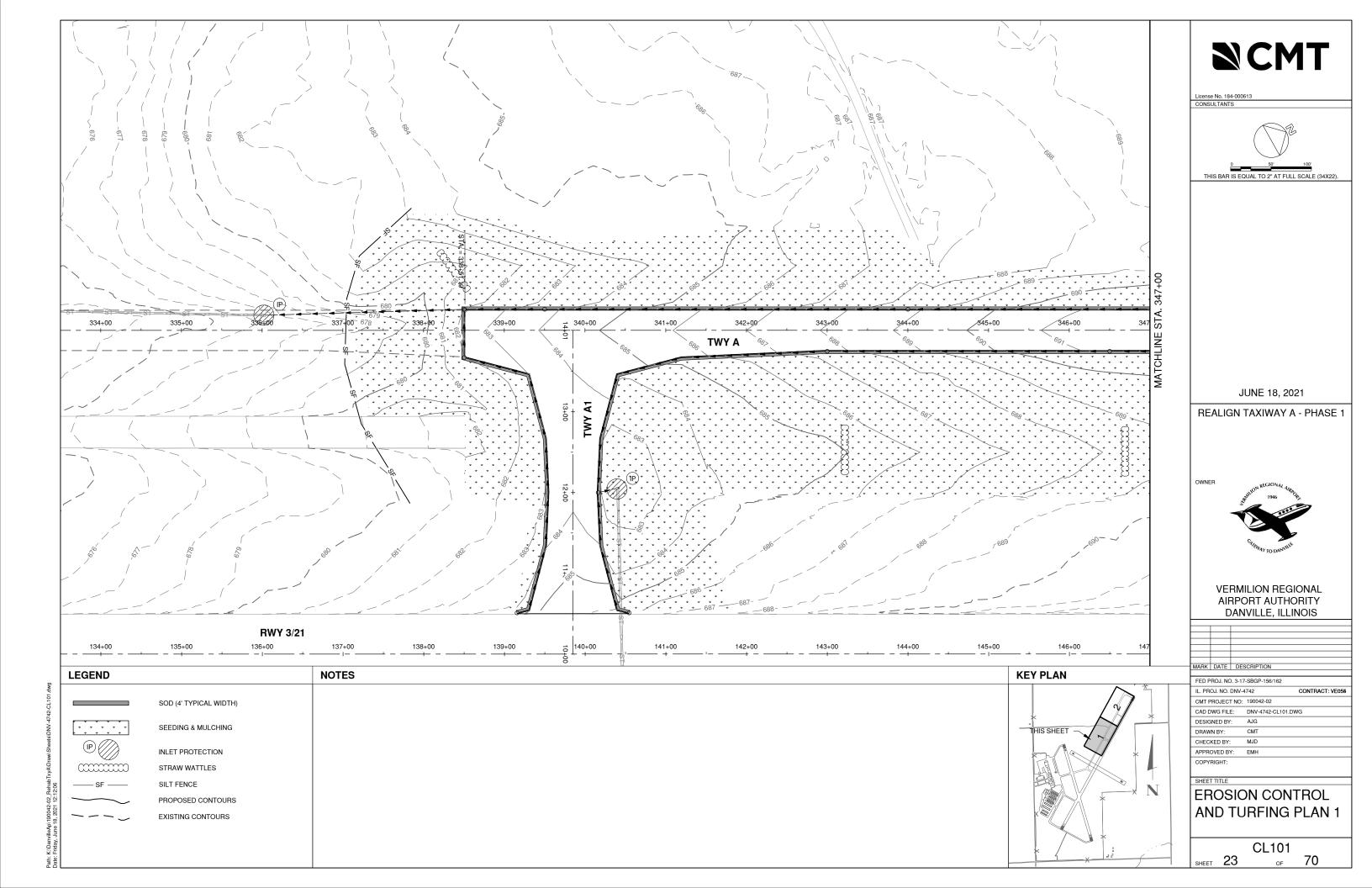


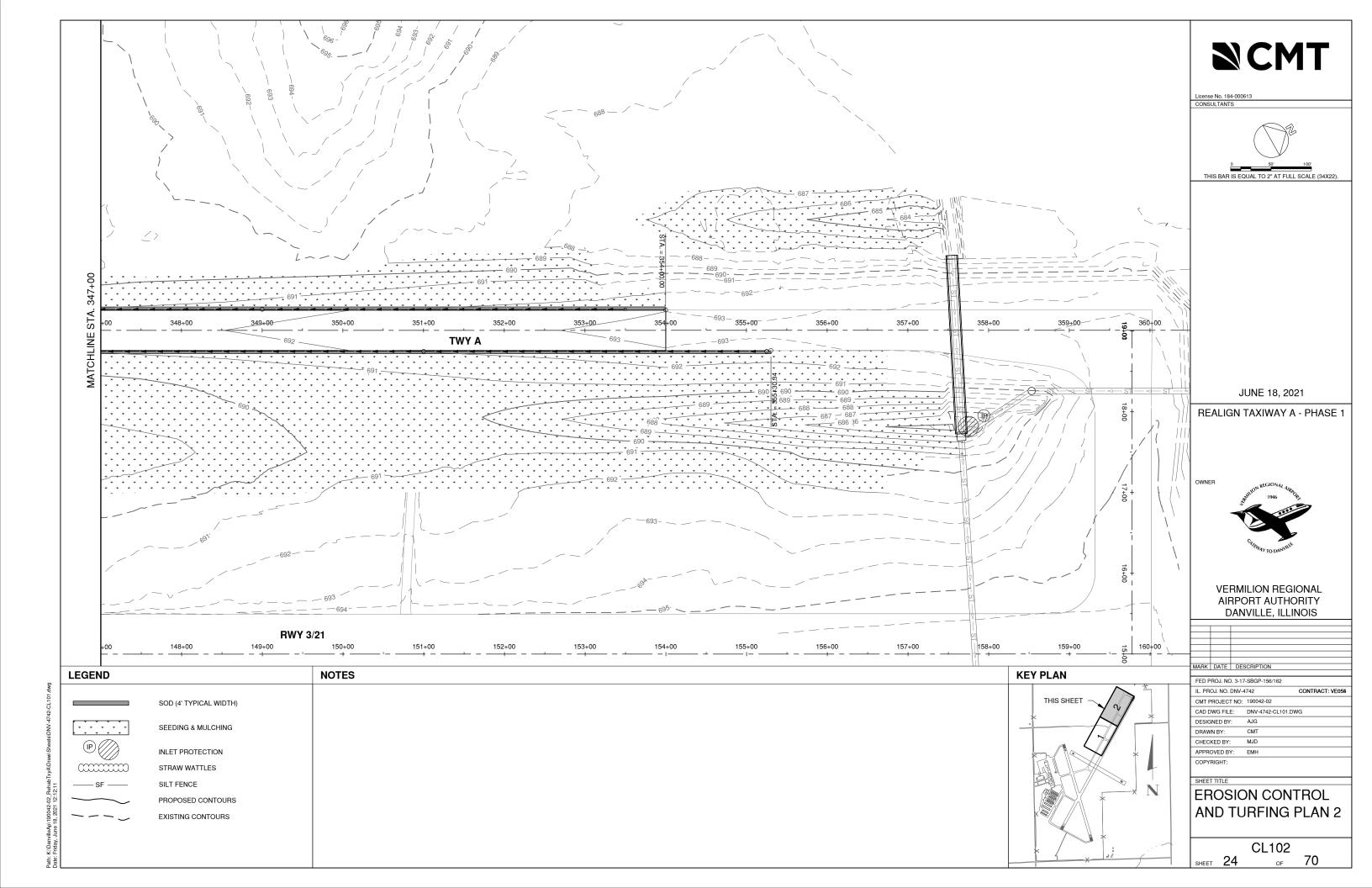


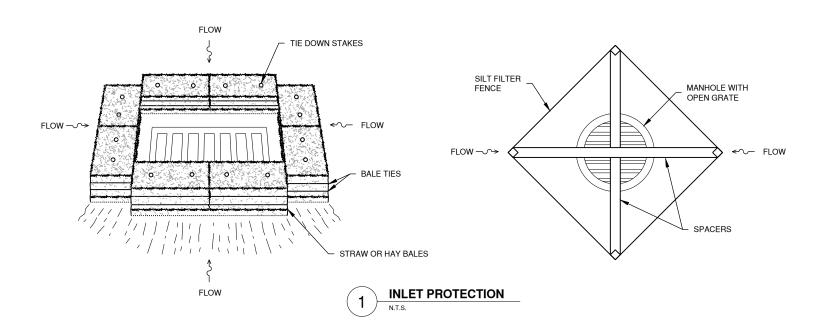














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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

CONTRACT: VE055 IL. PROJ. NO. DNV-4742

CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CL501.DWG

DESIGNED BY: AJG

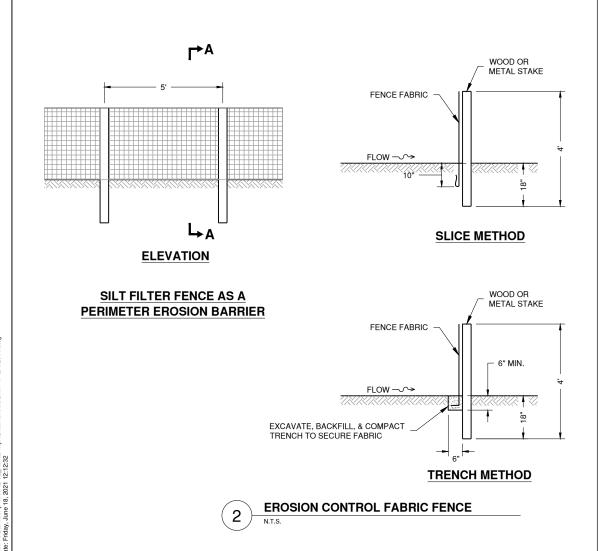
DRAWN BY: MJD CHECKED BY:

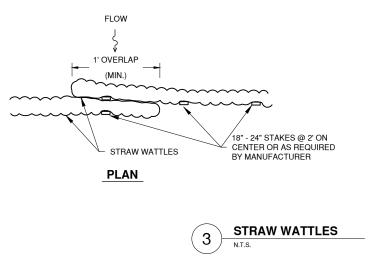
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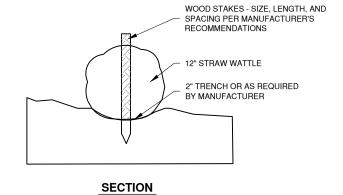
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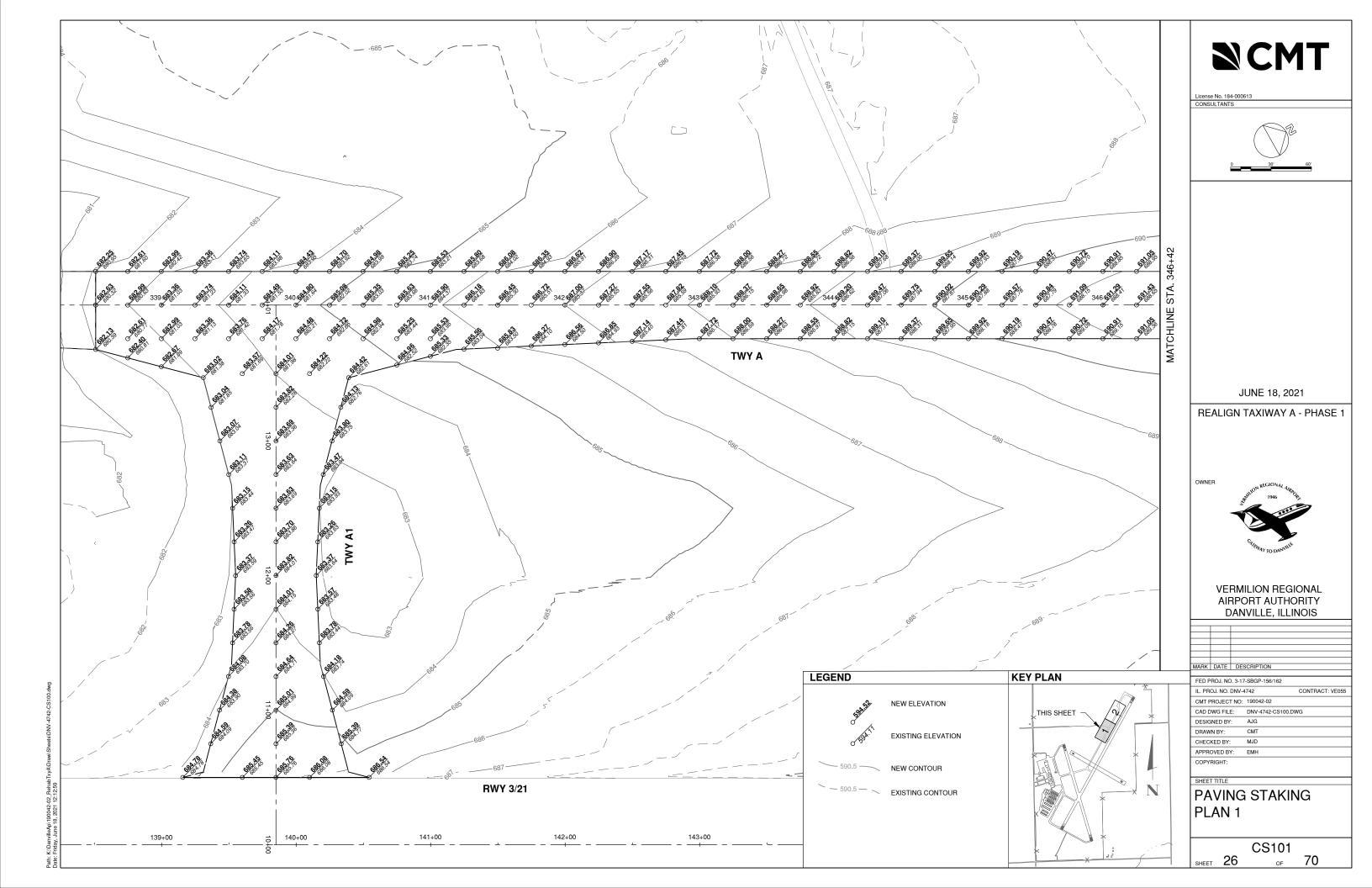
**EROSION &** SEDIMENT CONTROL DETAILS AND NOTES

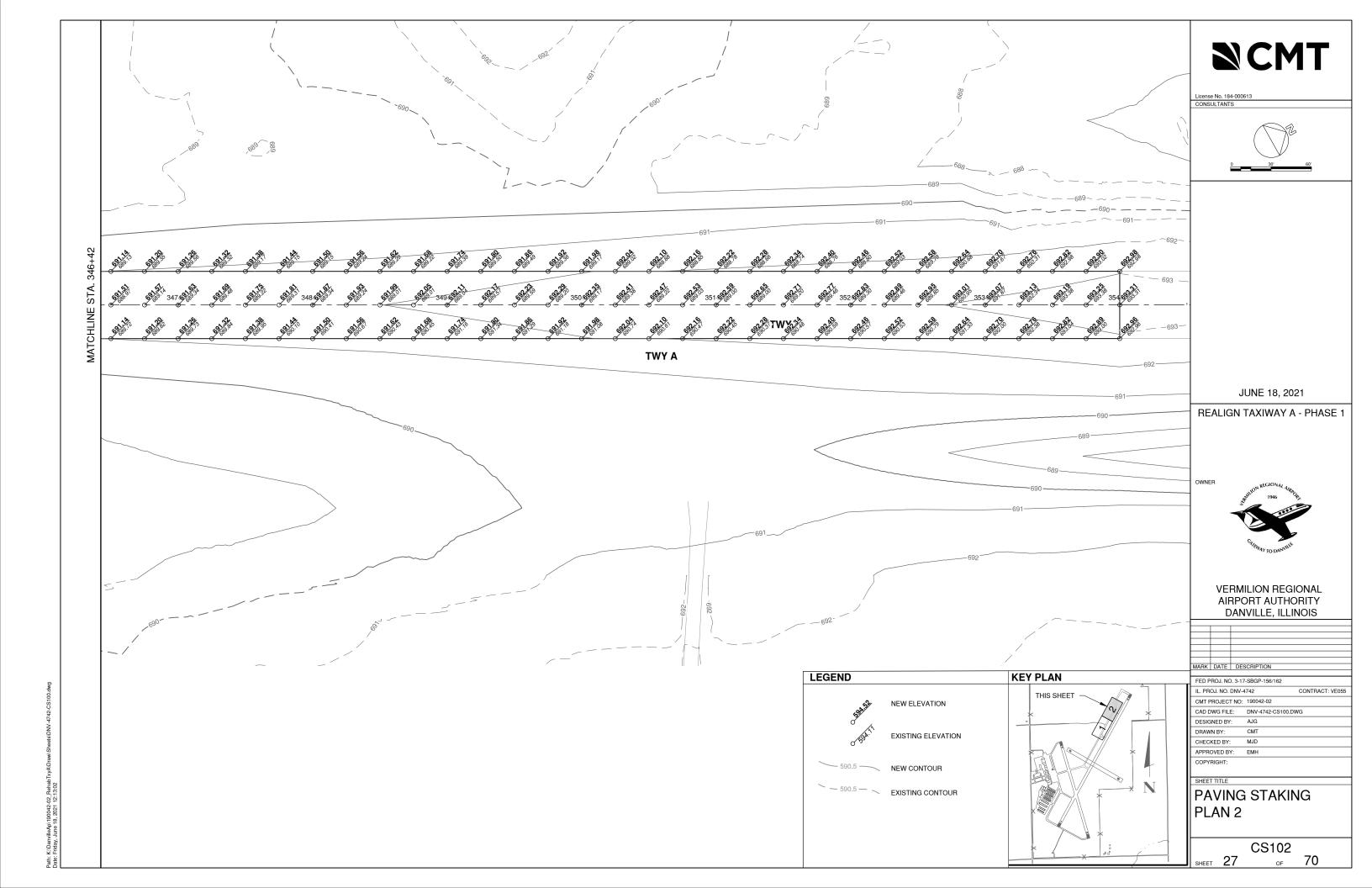
CL501 SHEET 25 70

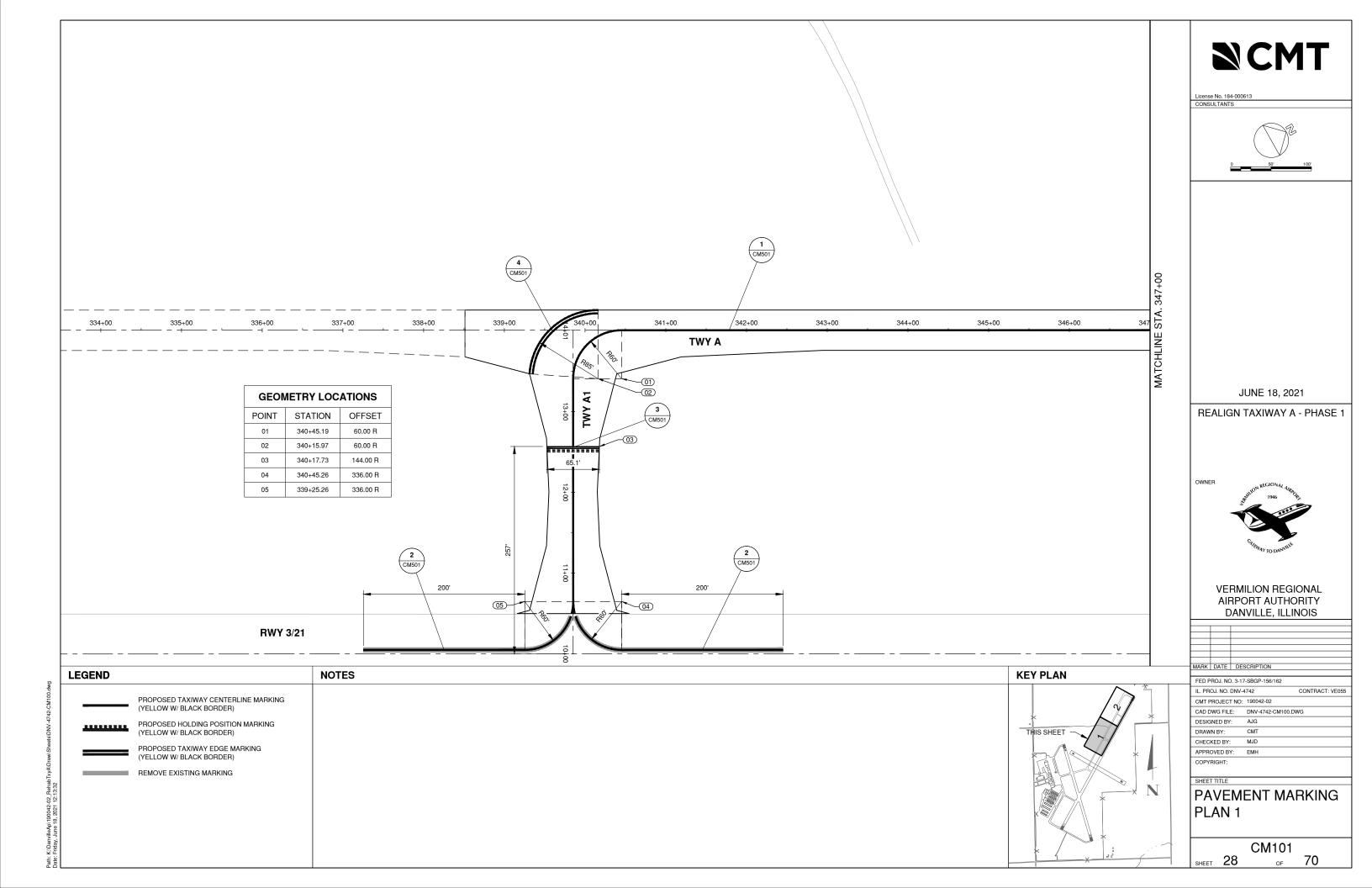


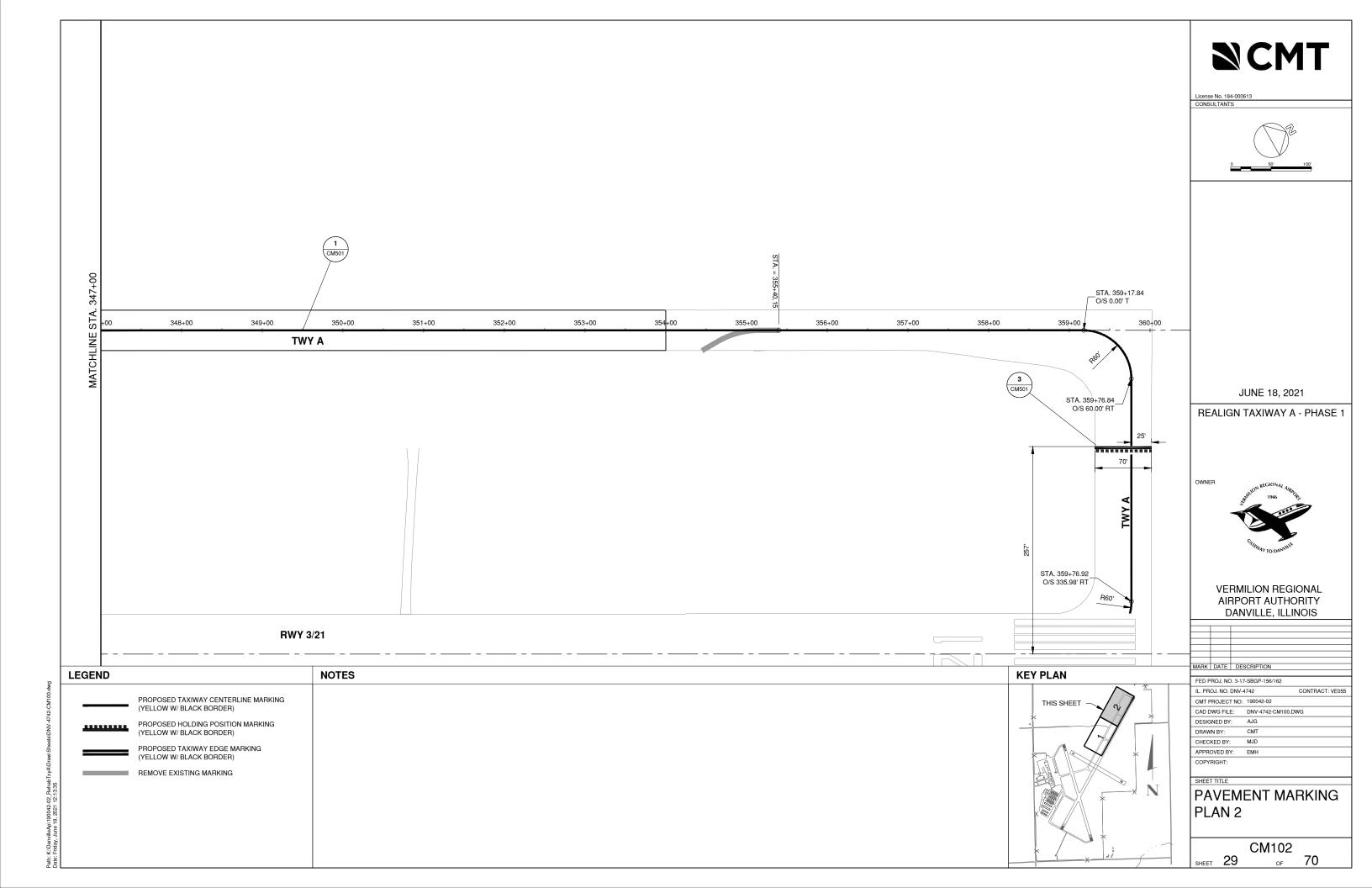


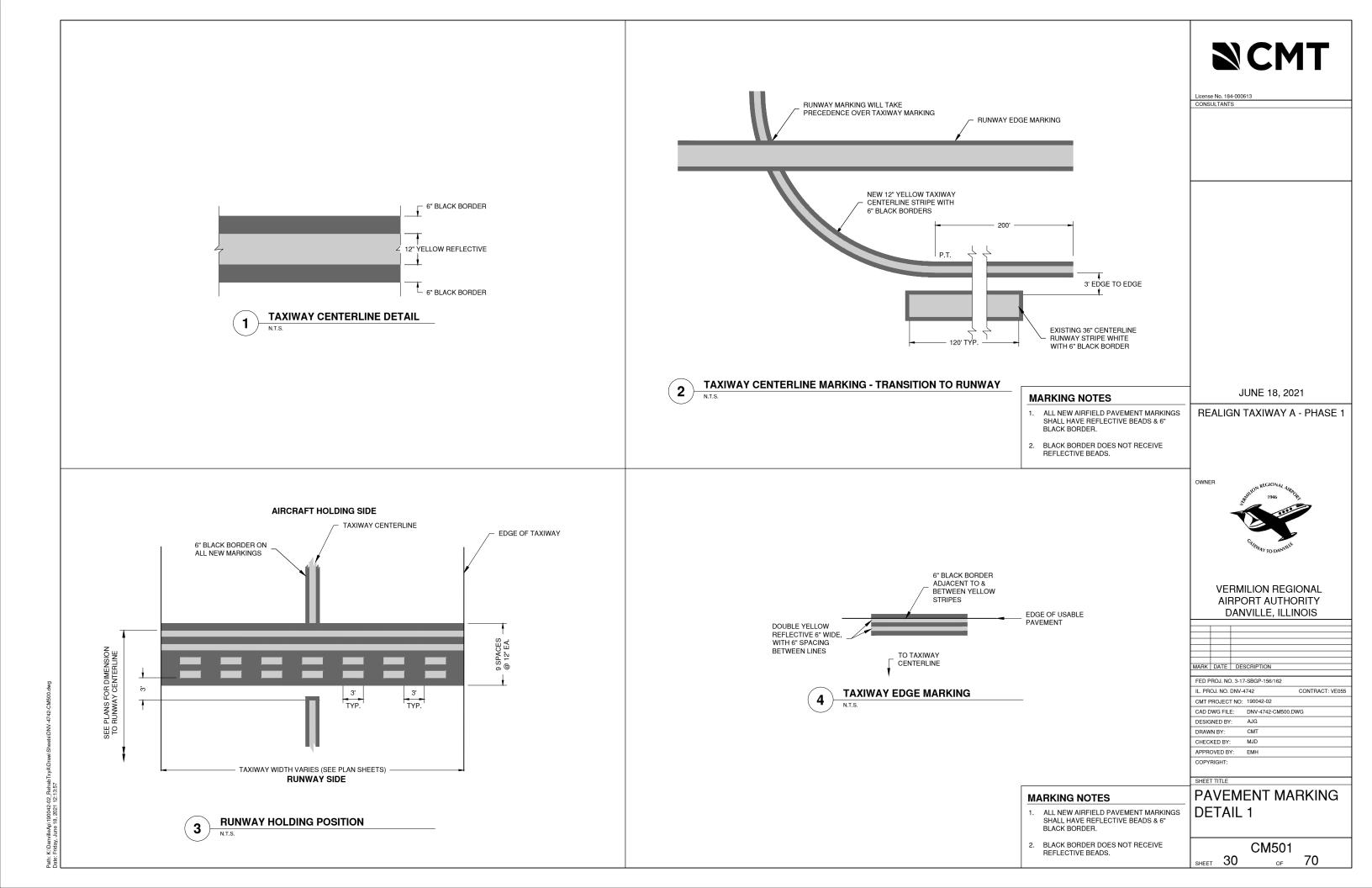


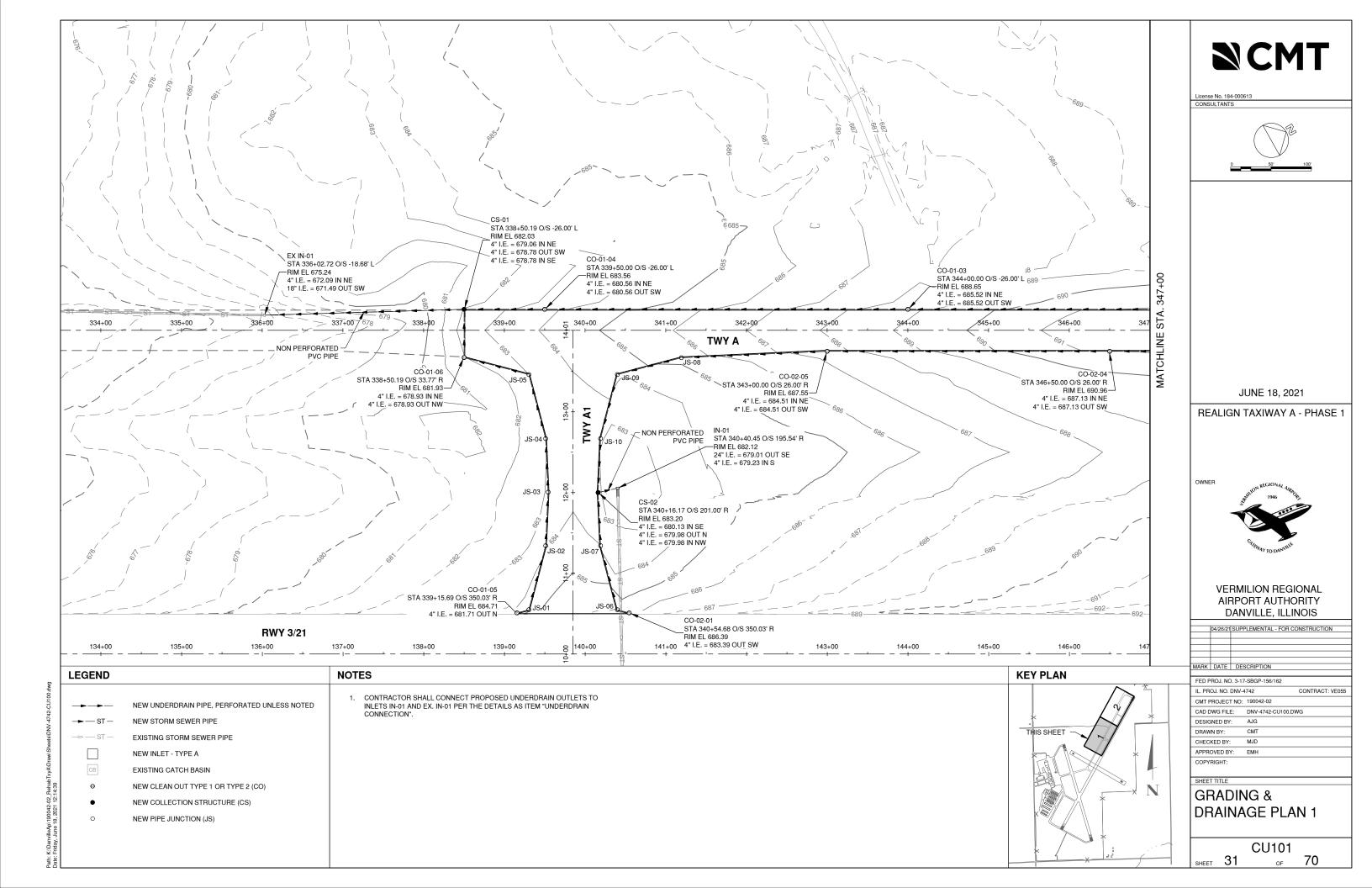


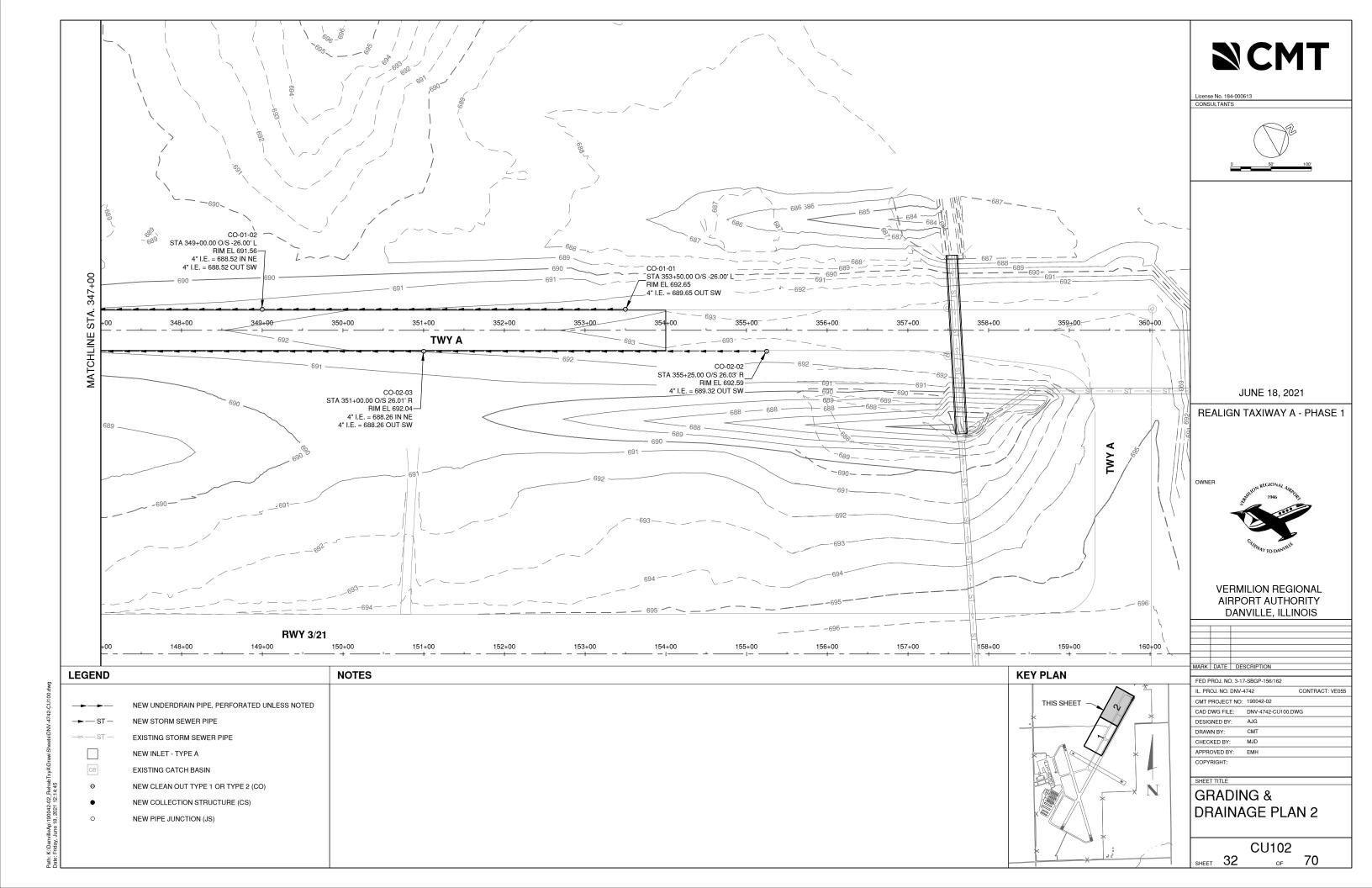


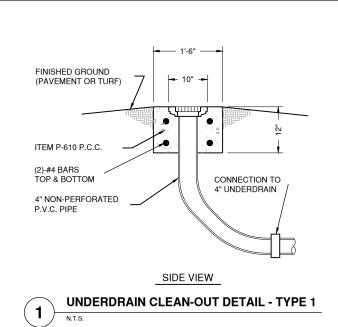


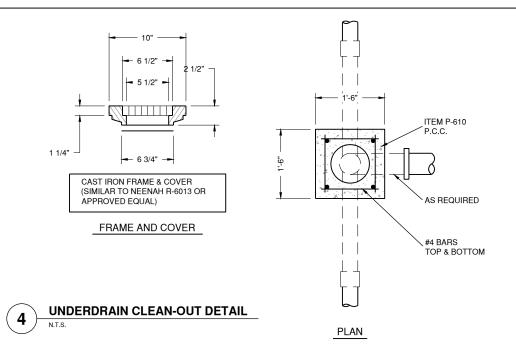


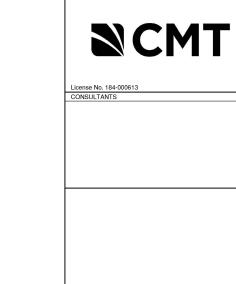












JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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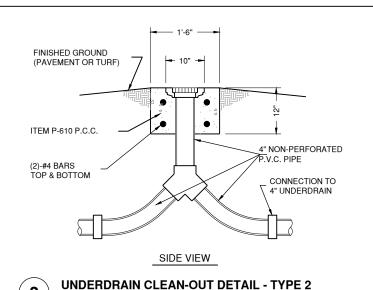
VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

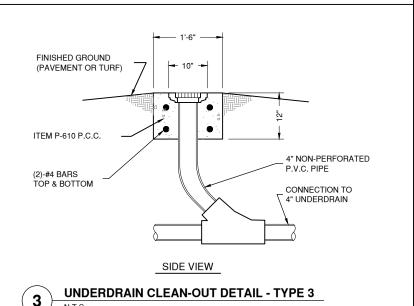
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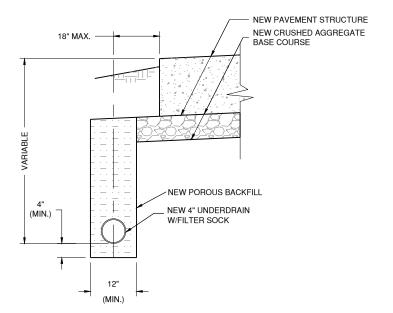
UNDERDRAIN DETAILS 1

APPROVED BY: EMH

CU501 sheet 33 of 70



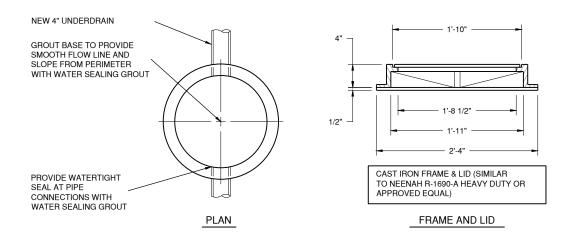


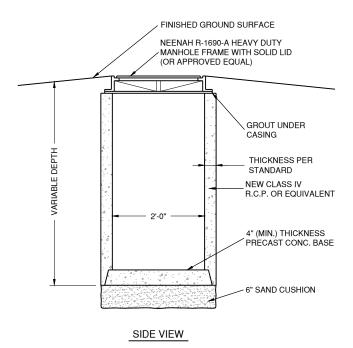


5 UNDERDRAIN ALONG PAVEMENT EDGE

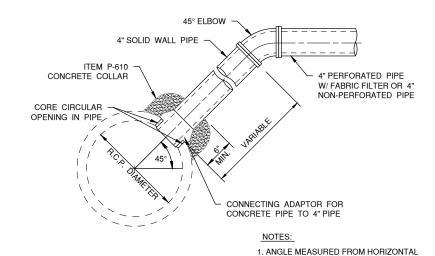
# NOTES

DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL. MATERIAL WHICH WILL AFFECT DRAINAGE TO THE UNDERDRAIN SHALL BE REMOVED PRIOR TO THE PLACEMENT OF PROPOSED POROUS BACKFILL. ALL COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL

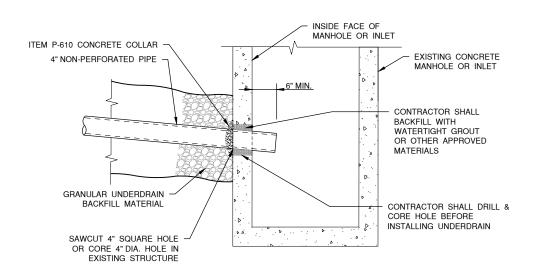




UNDERDRAIN COLLECTION STRUCTURE DETAILS



UNDERDRAIN DIRECT TOP CONNECTION DETAIL 2



**UNDERDRAIN DIRECT CONNECTION TO STRUCTURE** 3



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION FED PROJ. NO. 3-17-SBGP-156/162 CONTRACT: VE055 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CU500.DWG DESIGNED BY: AJG DRAWN BY: MJD CHECKED BY: APPROVED BY: EMH

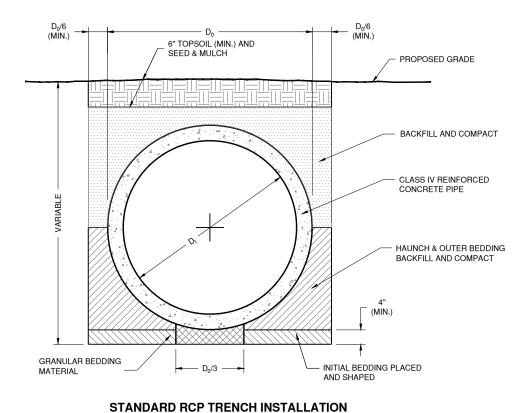
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OWNER

**UNDERDRAIN** DETAILS 2

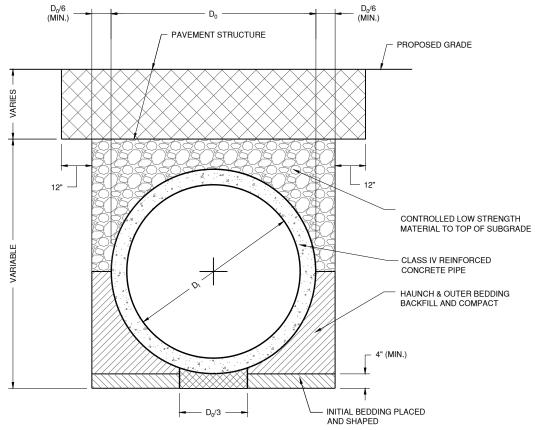
> CU502 OF

SHEET **34** 



IN NON-PAVED AREA DETAIL





JUNE 18, 2021 REALIGN TAXIWAY A - PHASE 1

**NCMT** 

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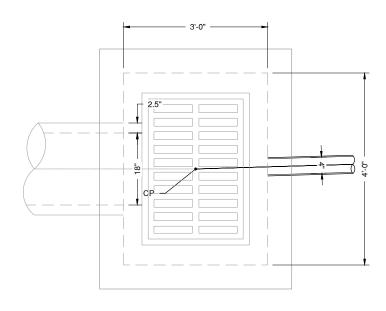
**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION			
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IL. PROJ. NO. DNV-4742			CONTRACT: VE0		
CMT PROJECT NO: 190042-02					

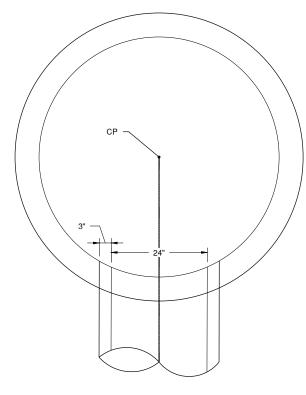
CAD DWG FILE: DNV-4742-CU500.DWG DESIGNED BY: AJG DRAWN BY: CHECKED BY: MJD APPROVED BY: EMH COPYRIGHT:

DRAINAGE DETAILS 1

CU503 of 70 SHEET 35







**INLET IN-04 - TYPE A** 



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REALIGN TAXIWAY A - PHASE 1



VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162 CONTRACT: VE055 IL. PROJ. NO. DNV-4742

CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CU510.DWG

DESIGNED BY: AJG DRAWN BY: CHECKED BY: CHK

APPROVED BY: APR COPYRIGHT:

SHEET TITLE

DRAINAGE STRUCTURE DETAIL 1

CU511 SHEET 36 OF 70

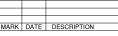


JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS



FED PROJ. NO. 3-17-SBGP-156/162 IL. PROJ. NO. DNV-4742

CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CU510.DWG

CONTRACT: VE055

70

DESIGNED BY: AJG DRAWN BY: MJD CHECKED BY:

APPROVED BY: EMH COPYRIGHT

SHEET TITLE

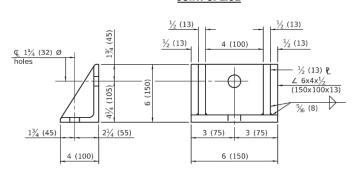
**DRAINAGE** STRUCTURE DETAIL 2

CU512 SHEET 37

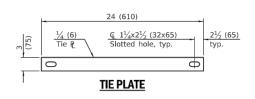
OF

6 (150)  $\frac{\mathbb{Q}}{\mathbb{Q}}$  1(25) Ø Threaded rods with  $2\frac{1}{4}$ x $2\frac{1}{4}$ x $\frac{3}{16}$  (55x55x8)  $\mathbb{R}$  washers under each nut. All nuts shall be brought to a snug tight condition. Holes in the walls may be drilled using core bits in lieu of formed holes. Connection angle

# JOINT SPLICE



## **CONNECTION ANGLE**



# FLAT SLAB TOP REINFORCEMENT

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

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

## **WALL REINFORCEMENT**

Location	Orientation	WWR or Rebar			
Location	Orientation	A <sub>s</sub> (min.)	Spacing (max.)		
Riser	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)		
Riser	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)		
Darrei	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)		

## BASE SLAB REINFORCEMENT

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

# PLAN - FLAT SLAB TOP (Showing layout of welded wire reinforcement and c bars)

6'-0" (1.83 m)

PLAN - FLAT SLAB TOP

6'-0" (1.83 m)

#4 (#13) bars bottom. Bundle -

first bar with closest WWR bar

to the opening and place second bar ±3 (75) away.

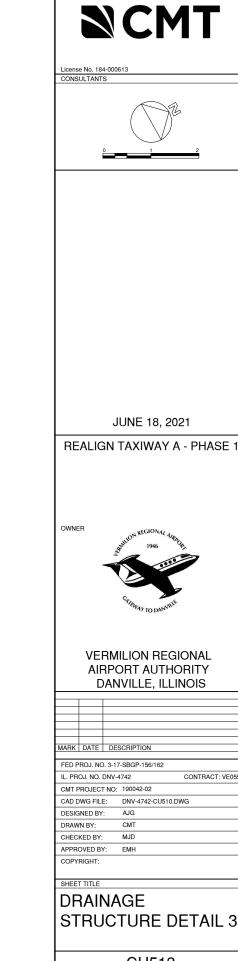
7'-7" (2.31 m) length, 32 (815)

(50)

Bar c #5 (#16), length, 32 (815) radius top and bottom

> PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER

**IDOT STANDARD 602402-02** 



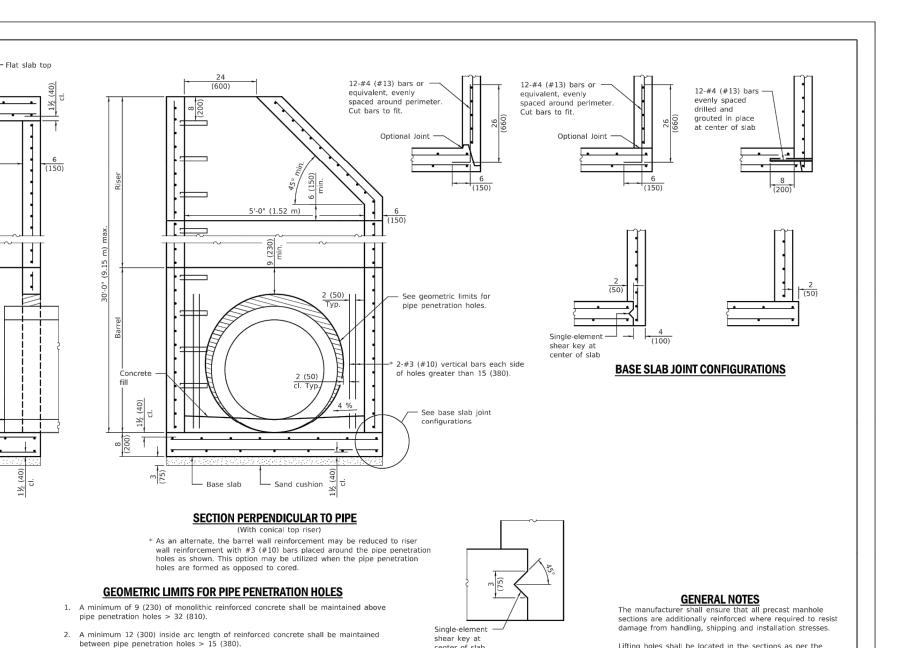
**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

CONTRACT: VE055

CAD DWG FILE: DNV-4742-CU510.DWG

STRUCTURE DETAIL 3

CU513 SHEET 38 70 OF



**SHEAR KEY GEOMETRY** 

3-1-19 Moved wall reinforcement from

inside face to middle.

1-1-19 Expanded / refined reinforcement options. Increased manhole depths.

REVISIONS

DATE

manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise

IDOT STANDARD 602402-02

PRECAST MANHOLE TYPE A

5' (1.52 m) DIAMETER

joint configurations

(600)

5'-0" (1.52 m)

Steps spaced at 12 (300) to 16 (400) cts.

(With conical top riser)

**SECTION PARALLEL TO PIPE** 

(Without conical top riser)

3. A maximum of 60 percent of the inside perimeter of the reinforced concrete

between pipe penetration holes is < 24 (600). See joint splice detail.

6. Only pipe penetration holes  $\leq$  15 (380) are allowed in riser sections

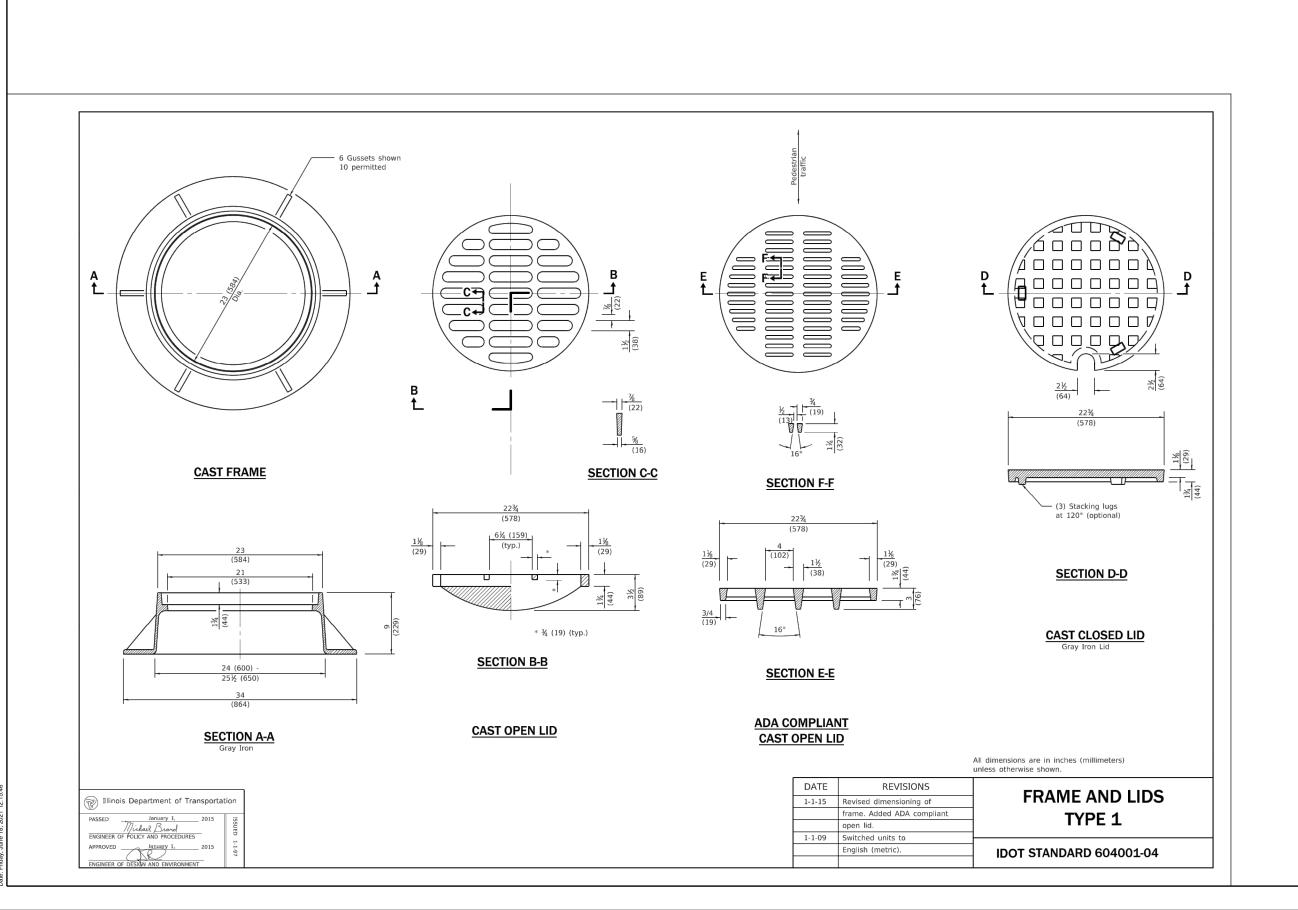
Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length

5. The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

— Bar c

FLAT SLAB TOP JOINT CONFIGURATIONS

- Bar c







JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1



VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055

CMT PROJECT NO: 190042-02

 CMT PROJECT NO:
 190042-02

 CAD DWG FILE:
 DNV-4742-CU510.DWG

 DESIGNED BY:
 AJG

 DRAWN BY:
 CMT

 CHECKED BY:
 CHK

 APPROVED BY:
 APR

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SHEET TITLE

DRAINAGE STRUCTURE DETAIL 4

CD514
sheet 39 of 70

# STRUCTURE TABLE STORM UNDERDRAIN

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
CO-01-01	RIM = 692.65 SUMP = 689.65 01-01 INV OUT = 689.65	TWY A STA 353+50.00 OFFSET -26.00 L
CO-01-02	RIM = 691.56 SUMP = 688.52 01-01 INV IN = 688.52 01-02 INV OUT = 688.52	TWY A STA 349+00.00 OFFSET -26.00 L
CO-01-03	RIM = 688.65 SUMP = 685.52 01-02 INV IN = 685.52 01-03 INV OUT = 685.52	TWY A STA 344+00.00 OFFSET -26.00 L
CO-01-04	RIM = 683.56 SUMP = 680.56 01-03 INV IN = 680.56 01-04 INV OUT = 680.56	TWY A STA 339+50.00 OFFSET -26.00 L
CO-01-05	RIM = 684.71 SUMP = 681.69 01-06 INV OUT = 681.71	TWY A1 STA 10+50.97 OFFSET -69.49 L
CO-01-06	RIM = 681.93 SUMP = 678.93 01-11 INV IN = 678.93 01-12 INV OUT = 678.93	TWY A1 STA 13+67.23 OFFSET -135.00 L
CO-02-01	RIM = 686.39 SUMP = 682.74 02-01 INV OUT = 683.39	TWY A1 STA 10+50.97 OFFSET 69.49 R
CO-02-02	RIM = 692.59 SUMP = 689.32 02-05 INV OUT = 689.32	TWY A STA 355+25.00 OFFSET 26.03 R
CO-02-03	RIM = 692.04 SUMP = 688.26 02-05 INV IN = 688.26 02-06 INV OUT = 688.26	TWY A STA 351+00.00 OFFSET 26.01 R
CO-02-04	RIM = 690.96 SUMP = 687.13 02-06 INV IN = 687.13 02-07 INV OUT = 687.13	TWY A STA 346+50.00 OFFSET 26.00 R
CO-02-05	RIM = 687.55 SUMP = 684.51 02-07 INV IN = 684.51 02-08 INV OUT = 684.51	TWY A STA 343+00.00 OFFSET 26.00 R
CS-01	RIM = 682.03 SUMP = 678.78 01-04 INV IN = 679.06 01-12 INV IN = 678.78 01-05-NP INV OUT = 678.78	TWY A STA 338+50.19 OFFSET -26.00 L

# STRUCTURE TABLE STORM UNDERDRAIN

STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
CS-02	RIM = 683.20 SUMP = 679.98 02-02 INV IN = 680.13 02-11 INV IN = 679.98 02-04-NP INV OUT = 679.98	TWY A1 STA 12+00.00 OFFSET 30.98 R
JS-01	RIM = 681.97 SUMP = ??? 01-06 INV IN = 681.60 01-07 INV OUT = 681.60	TWY A1 STA 10+54.8 OFFSET -54.82 L
JS-02	RIM = 681.39 SUMP = ??? 01-07 INV IN = 681.03 01-08 INV OUT = 681.03	TWY A1 STA 11+34.19 OFFSET -33.99 L
JS-03	RIM = 680.93 SUMP = ??? 01-08 INV IN = 680.56 01-09 INV OUT = 680.56	TWY A1 STA 12+00.5 OFFSET -30.96 L
JS-04	RIM = 680.46 SUMP = ??? 01-09 INV IN = 680.09 01-10 INV OUT = 680.09	TWY A1 STA 12+66.8 OFFSET -33.99 L
JS-05	RIM = 679.88 SUMP = ??? 01-10 INV IN = 679.51 01-11 INV OUT = 679.51	TWY A STA 339+30.3 OFFSET 54.82 R
JS-06	RIM = 683.45 SUMP = ??? 02-01 INV IN = 683.08 02-03 INV OUT = 683.08	TWY A1 STA 10+54.80 OFFSET 54.82 R
JS-07	RIM = 681.81 SUMP = ??? 02-03 INV IN = 681.44 02-02 INV OUT = 681.44	TWY A1 STA 11+34.15 OFFSET 33.99 R
JS-08	RIM = 682.89 SUMP = ??? 02-08 INV IN = 682.52 02-09 INV OUT = 682.52	TWY A1 STA 13+67.01 OFFSET 134.15 R
JS-09	RIM = 681.98 SUMP = ??? 02-09 INV IN = 681.62 02-10 INV OUT = 681.62	TWY A STA 340+40.0 OFFSET 54.82 R
JS-10	RIM = 681.08 SUMP = ??? 02-10 INV IN = 680.71 02-11 INV OUT = 680.71	TWY A1 STA 12+66.89 OFFSET 33.99 R

RUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
IN-01	RIM = 682.12 SUMP = 679.01 02-04-NP INV IN = 679.23 D1 INV OUT = 679.01	TWY A STA 340+40.45 OFFSET 195.54 R

STRUCTURE TABLE STORM SEWER

	PIPE SCHEDULE STORM SEWER										
PIPE UPSTREAM STRUCTURE STRUCTURE INVERT INVERT LENGTH (FT) SLOPE TYPE											
D1	D1 IN-01 EX D1 679.01 678.95 10 0.50% CONCRETE PIPE - 2										

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REALIGN TAXIWAY A - PHASE 1



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION FED PROJ. NO. 3-17-SBGP-156/162 CONTRACT: VE055

IL. PROJ. NO. DNV-4742

CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CU600.DWG

DESIGNED BY: AJG DRAWN BY:

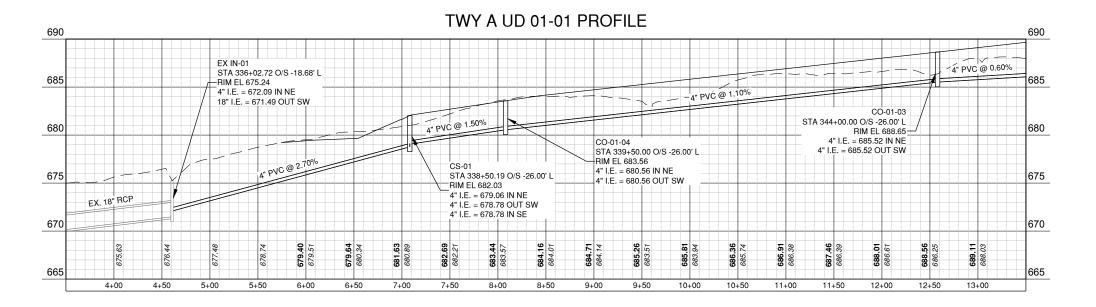
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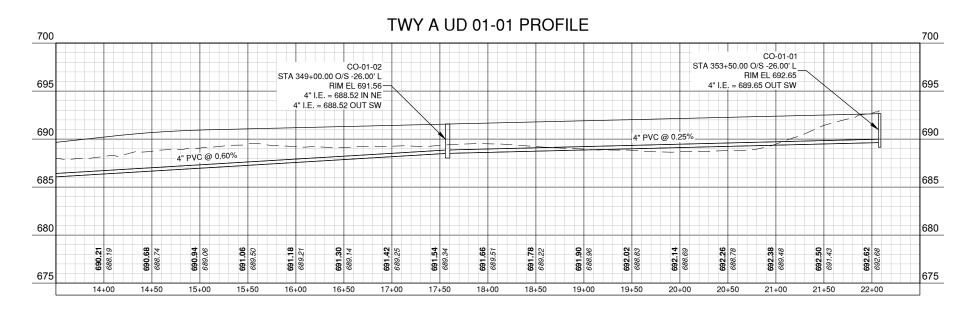
DRAINAGE PIPE AND STRUCTURE SCHEDULES

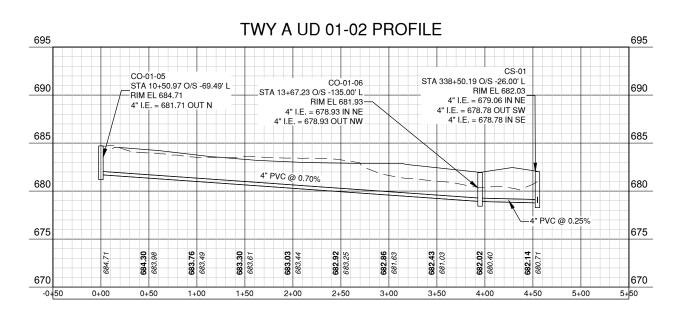
CU601 SHEET 40 OF 70

# PIPE SCHEDULE STORM UNDERDRAIN

		DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
01-01	01-01 CO-01-01 CO-01-02		689.65	688.52	447	0.25%	PVC PIPE - 4
01-02	CO-01-02	CO-01-03	688.52	685.52	496	0.60%	PVC PIPE
01-03	CO-01-03	CO-01-04	685.52	680.56	446	1.10%	PVC PIPE -
01-04	CO-01-04	CS-01	680.56	679.06	96	1.50%	PVC PIPE -
01-05-NP	CS-01	EX IN-01	678.78	672.09	245	2.70%	PVC PIPE -
01-06	CO-01-05	JS-01	681.71	681.60	13	0.70%	PVC PIPE -
01-07	JS-01	JS-02	681.60	681.03	82	0.70%	PVC PIPE -
01-08	JS-02	JS-03	681.03	680.56	66	0.70%	PVC PIPE -
01-09	JS-03	JS-04	680.56	680.09	66	0.70%	PVC PIPE -
01-10	JS-04	JS-05	680.09	679.51	82	0.70%	PVC PIPE -
01-11	JS-05	CO-01-06	679.51	678.93	81	0.70%	PVC PIPE -
01-12	CO-01-06	CS-01	678.93	678.78	56	0.25%	PVC PIPE -
02-01	CO-02-01	JS-06	683.39	683.08	13	2.00%	PVC PIPE -
02-02	JS-07	CS-02	681.44	680.13	64	2.00%	PVC PIPE -
02-03	JS-06	JS-07	683.08	681.44	82	2.00%	PVC PIPE -
02-04-NP	CS-02	IN-01	679.98	679.23	21	3.00%	PVC PIPE -
02-05	CO-02-02	CO-02-03	689.32	688.26	421	0.25%	PVC PIPE -
02-06	CO-02-03	CO-02-04	688.26	687.13	446	0.25%	PVC PIPE -
02-07	CO-02-04	CO-02-05	687.13	684.51	346	0.75%	PVC PIPE -
02-08	CO-02-05	JS-08	684.51	682.52	179	1.10%	PVC PIPE -
02-09	JS-08	JS-09	682.52	681.62	82	1.10%	PVC PIPE -
02-10	JS-09	JS-10	681.62	680.71	82	1.10%	PVC PIPE -
02-11	JS-10	CS-02	680.71	679.98	65	1.10%	PVC PIPE -









JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER 1946 1946

VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02

CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-CU800.DWG

CAD DWG FILE: DNV-4742-CU800.DWG
DESIGNED BY: AJG

DESIGNED BY: AJG
DRAWN BY: CMT

CHECKED BY: MJD

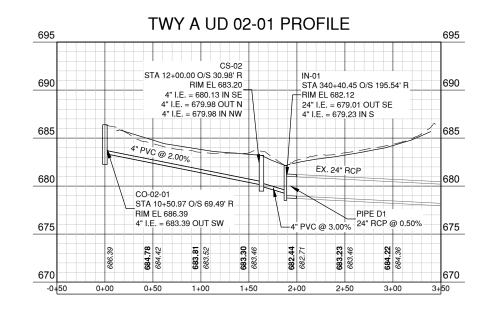
APPROVED BY: EMH

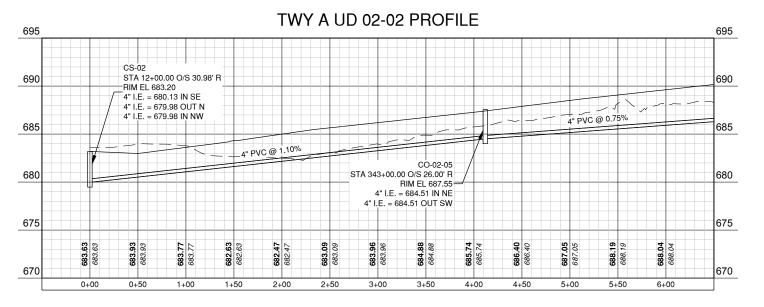
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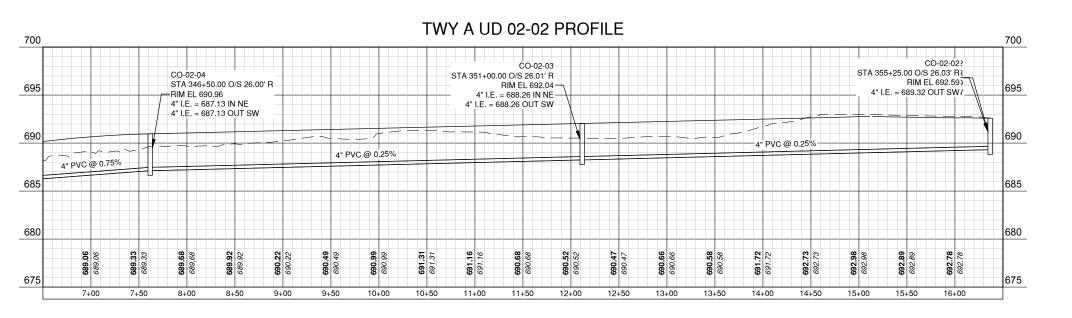
SHEET TITLE

DRAINAGE PROFILE 1

CU801 SHEET 41 OF 70









JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-CU800.DWG
DESIGNED BY: AJG

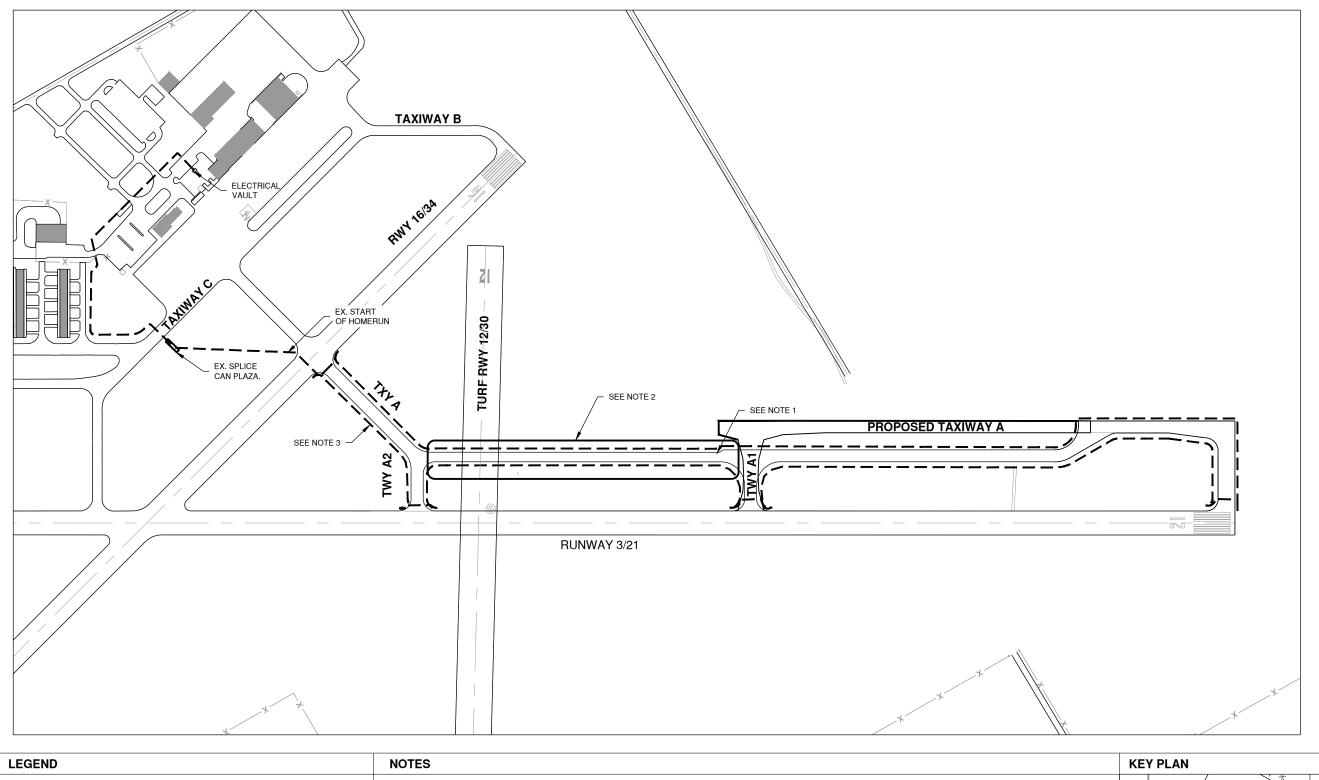
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CHECKED BY: MJD
APPROVED BY: EMH

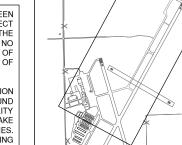
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SHEET TITLE

DRAINAGE PROFILE 2

CU802 SHEET 42 OF 70





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 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

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN

**NCMT** 

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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

CONTRACT: VE055 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-EG200.DWG DESIGNED BY: AJG

DRAWN BY: MJD CHECKED BY:

APPROVED BY: COPYRIGHT

**PROPOSED** CIRCUITRY SCHEMATIC

EG201 70 SHEET 43

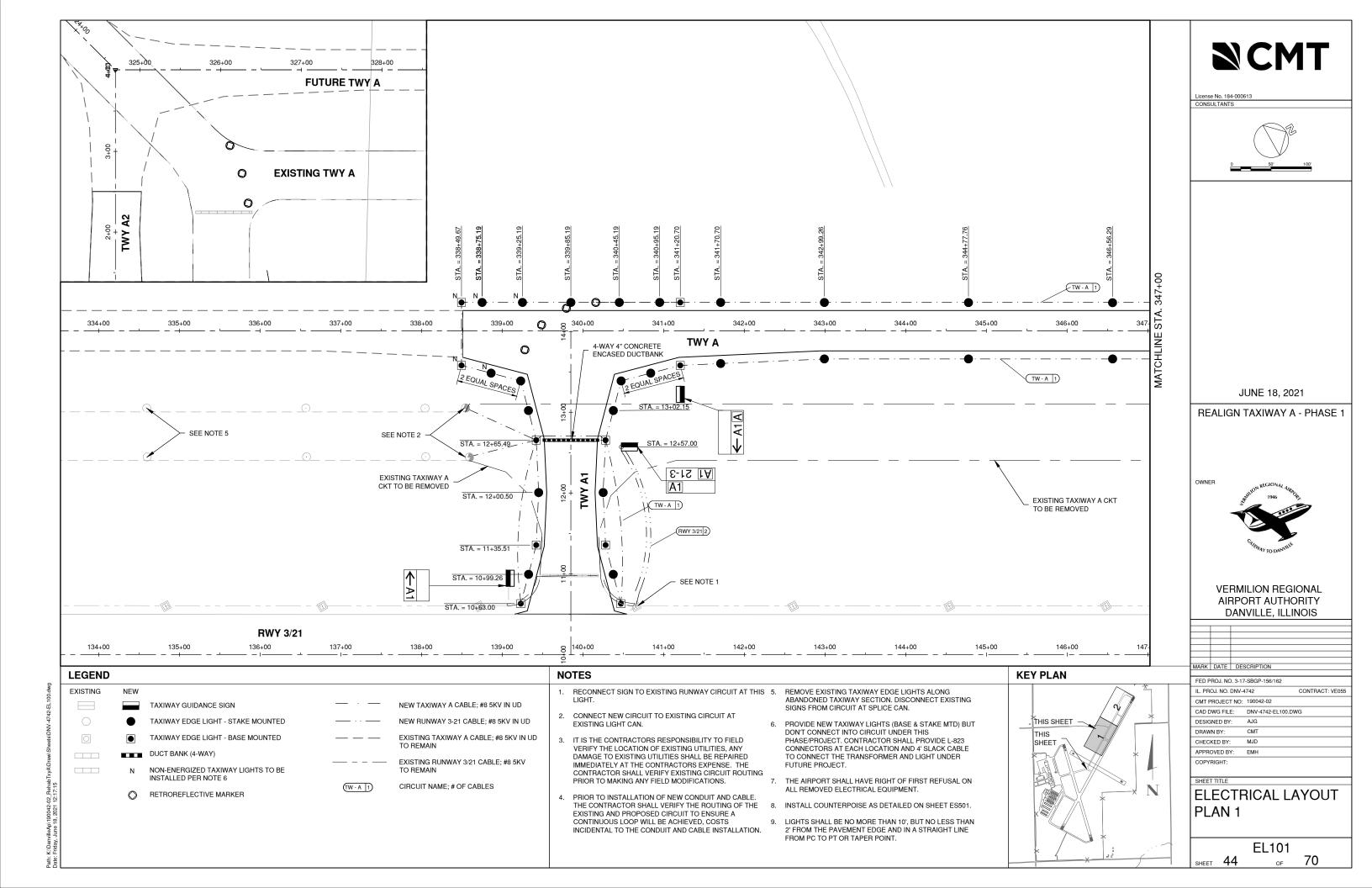
EXISTING TAXIWAY A CIRCUIT (CIRCUIT 1) SHOWN IN SCHEMATIC VIEW FOR CLARITY ON THIS SHEET. SEE ELECTRICAL LAYOUT PLAN FOR PROPOSED CABLING AND CONNECTION TO EXISTING CIRCUIT 1.

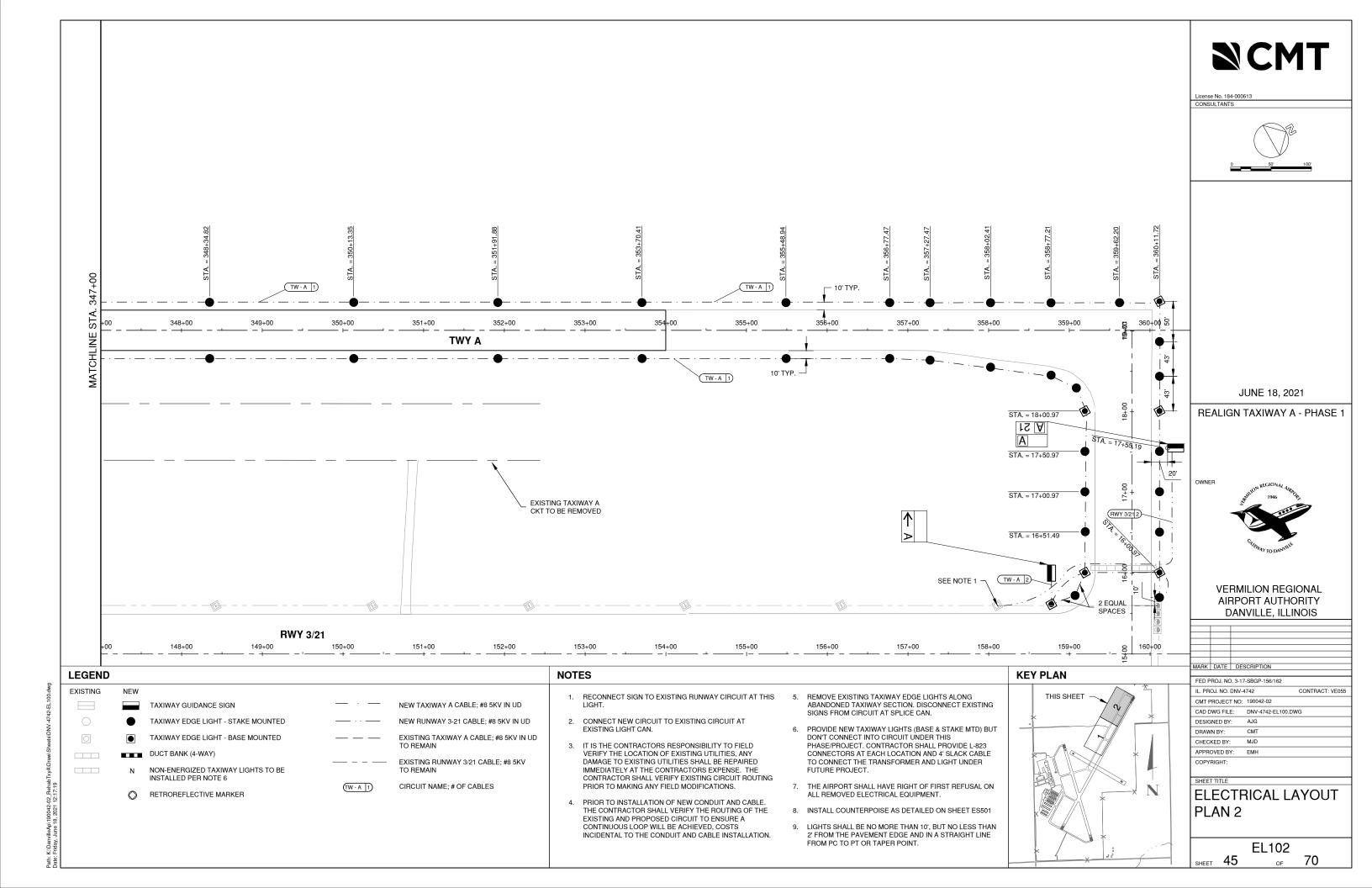
2. REMOVE EXISTING LIGHTS AND SIGNS IN THIS AREA IN THE BEGINNING OF PHASE 1. KEEP CABLES ENERGIZED UNDERGROUND TO FEED THE PROPOSED TAXIWAY A CABLING SHOWN ON THE ELECTRICAL LAYOUT PLANS. DISCONNECT EXISTING SIGNS IN THIS AREA AT THE EXISTING SPLICE CAN IN EACH SIGN BASE.

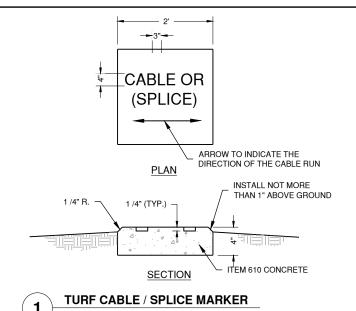
THE EXISTING CIRCUIT "1" SHALL BE ACTIVE THROUGHOUT THE PROJECT WITH OCCASIONAL EXCEPTIONS. SOME PORTION OF TAXIWAY A WILL BE OPEN TO AIR TRAFFIC IN PHASE 1A.

4. THIS SHEET IS FOR SCHEMATIC VIEWING ONLY AND IS NOT INTENDED TO

HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

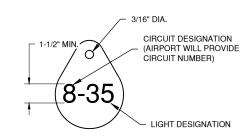






NOTES:

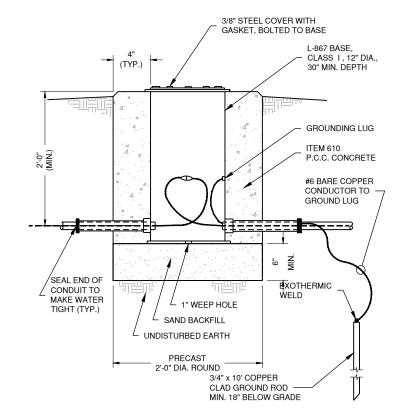
- DUCT MARKERS SHALL BE INSTALLED AT BOTH EDGES OF PAVEMENT WHERE PROPOSED ELECTRICAL DUCTS CROSS BOTH NEW AND EXISTING PAVEMENTS.
- 2. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
- 3. ITEM 610 CONCRETE SHALL BE USED.
- 4. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" 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

### NOTES:

- 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



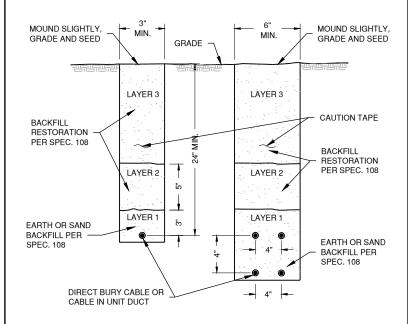
3 SPLICE CAN N.T.S.



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JUNE 18, 2021

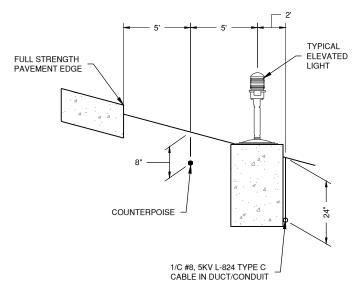
REALIGN TAXIWAY A - PHASE 1



### NOTES:

- 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.



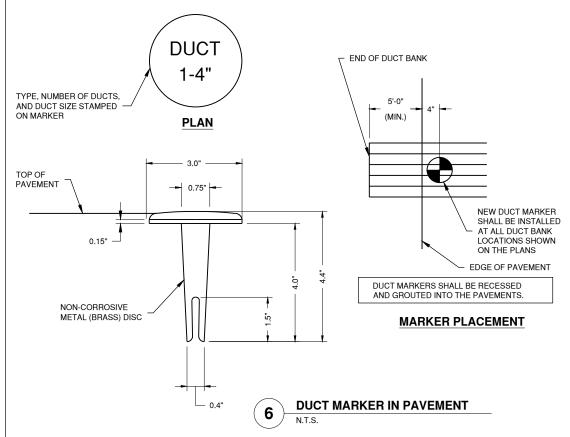


### NOTES:

#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.





VERMILION REGIONAL AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055

CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-ES500.DWG

DESIGNED BY: AJG

DRAWN BY: CMT

CHECKED BY: MJD

APPROVED BY: EMH

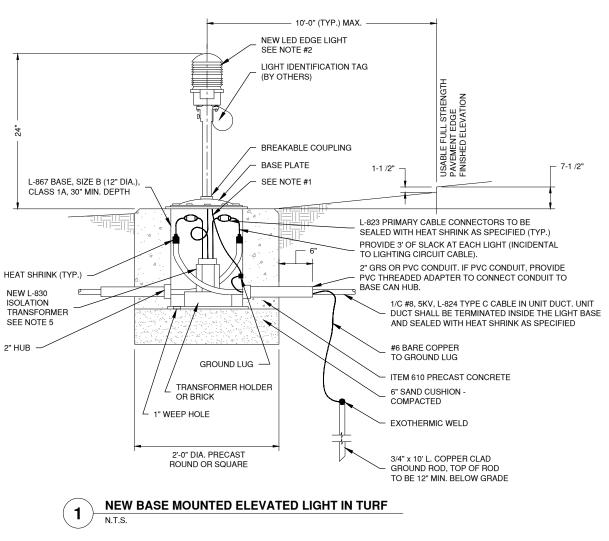
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SHEET TITLE

ELECTRICAL DETAILS

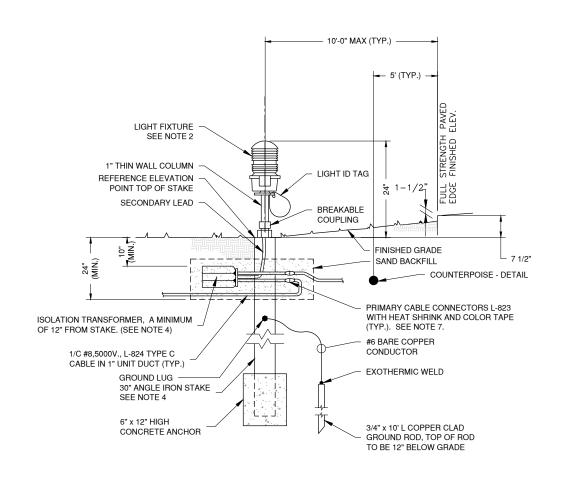
ES501 SHEET 46 OF 70

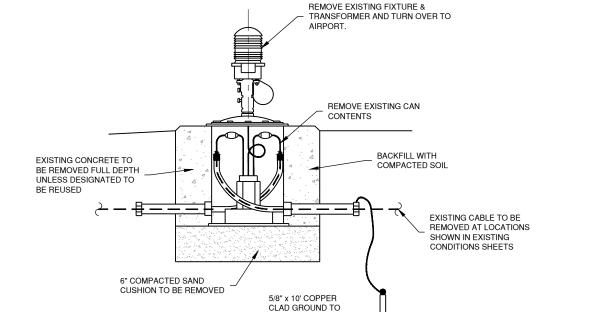
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### **EDGE LIGHT NOTES**

- 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,  $^{1}$ %, 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





BE REMOVED AND SALVAGED FOR

REUSE

**NEW STAKE MOUNTED MEDIUM INTENSITY LIGHTS - LED** 

REMOVE BASE MOUNTED LIGHT



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION FED PROJ. NO. 3-17-SBGP-156/16

IL. PROJ. NO. DNV-4742

CONTRACT: VE055 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-ES500.DWG

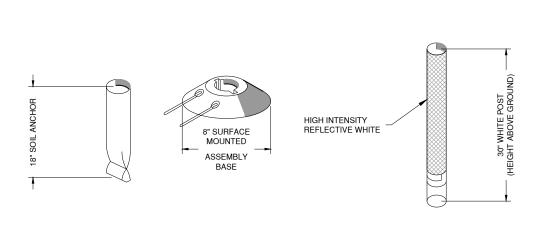
DESIGNED BY: A.IG DRAWN BY: CHECKED BY: MJD

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**ELECTRICAL DETAILS** 

70

ES502 SHEET 47



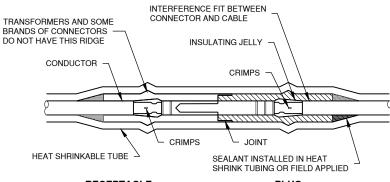
# **RETRO-REFLECTIVE MARKER NOTES**

RETROREFLECTIVE MARKER SHALL MET FAA AC 150/5345-39D AIRFIELD LIGHTING EQUIPMENT CERTIFICATION PROGRAM

**ELEVATED RETRO-REFLECTIVE MARKER** 

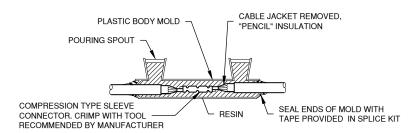
### INSTALLATION INSTRUCTIONS TO SUPPLEMENT THE MANUFACTURER'S INSTRUCTIONS

- 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
- 14. CONTRACTOR MAY ELECT TO INSTALL "COMPLETE KIT" IN LIEU OF L-823 CONNECTOR WITH HEAT SHRINK



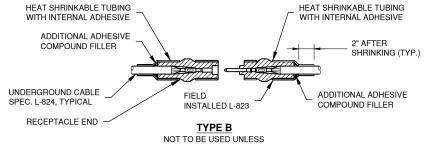
RECEPTACLE

**PLUG** 

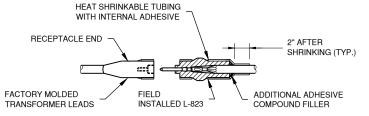


# TYPE A

FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY

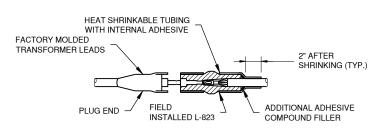


DIRECTED BY ENGINEER



# TYPE C

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS



# TYPE D

FOR SPLICES AT RUNWAY LIGHTS, TAXIWAY LIGHT AND SIGNS



### **NOTES**

- MATCH THE OUTSIDE DIAMETER OF CABLE INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY
- 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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**REALIGN TAXIWAY A - PHASE 1** 



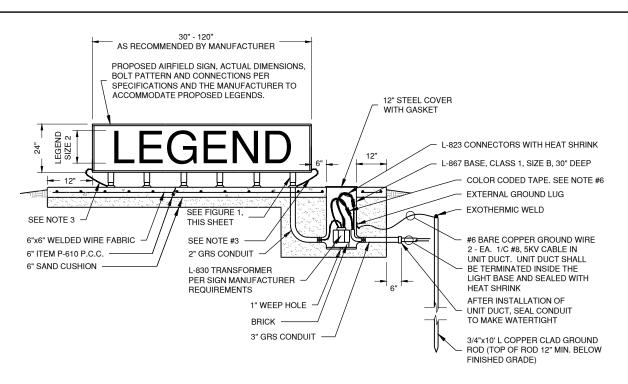
**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

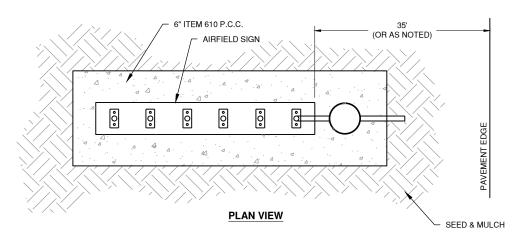
MARK DATE DESCRIPTION CONTRACT: VE055 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-ES500.DWG DESIGNED BY: AJG DRAWN BY: CHECKED BY: MJD APPROVED BY: COPYRIGHT

**ELECTRICAL DETAILS** 

70

ES503 SHEET 48

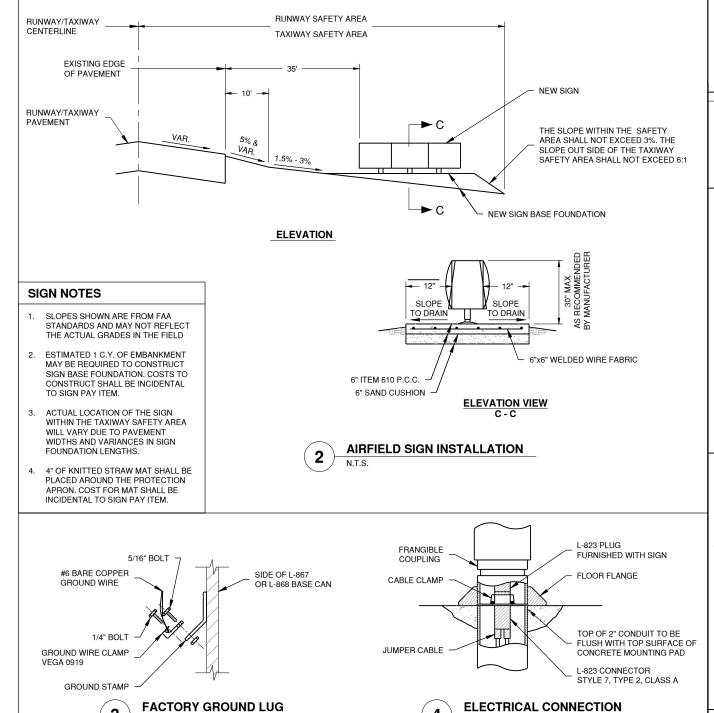






### **AIRFIELD GUIDANCE SIGN NOTES**

- 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
- 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
- 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.



SIGN#	SIDE	NEW SIGN LEGEND	WHITE WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	NUMBER OF CHARACTERS	NEW POWER CIRCUIT	SIGN STYLE	CKT INTENSITY	SIGN SIZE	SIGN MODE	SIGN CLASS
TWA-01	NE SW	<b>←</b> A		<b>←</b> A		2	Α	2	MEDIUM	2	2	2
RWA-01	NW SE	A 21	21		Α	3	3-21	3	HIGH	2	2	2
RWA-02	NW SE	A1 21-3 A1	21-3		A1	6	3-21	3	HIGH	2	2	2
TWA-02	NE SW	← A1 A		<b>←</b> A1	Α	4	Α	2	MEDIUM	2	2	2
TWA-03	NE SW	<b>←</b> A1		<b>←</b> A1		3	Α	2	MEDIUM	2	2	2

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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

IL. PROJ. NO. DNV-4742 CONTRACT: VE055

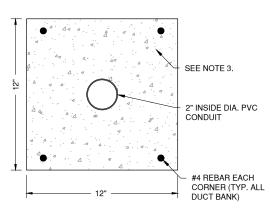
CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-ES500.DWG

DESIGNED BY: A.IG DRAWN BY: MJD CHECKED BY:

APPROVED BY: COPYRIGHT

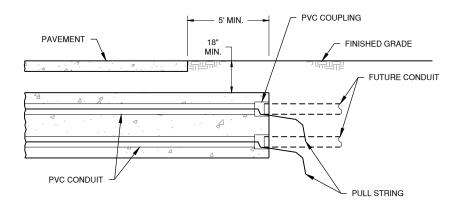
**ELECTRICAL DETAILS** 

ES504 SHEET 49 70 **4-WAY DUCT BANK** 





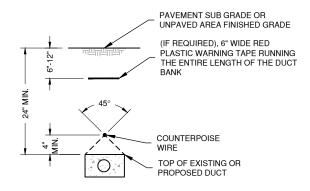






## **DUCT BANK NOTES**

- 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
- 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)

NTS

### NOTES:

- 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.



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JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

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**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION	
FED P	ROJ. NO	). 3-17-SBGP-156/162	

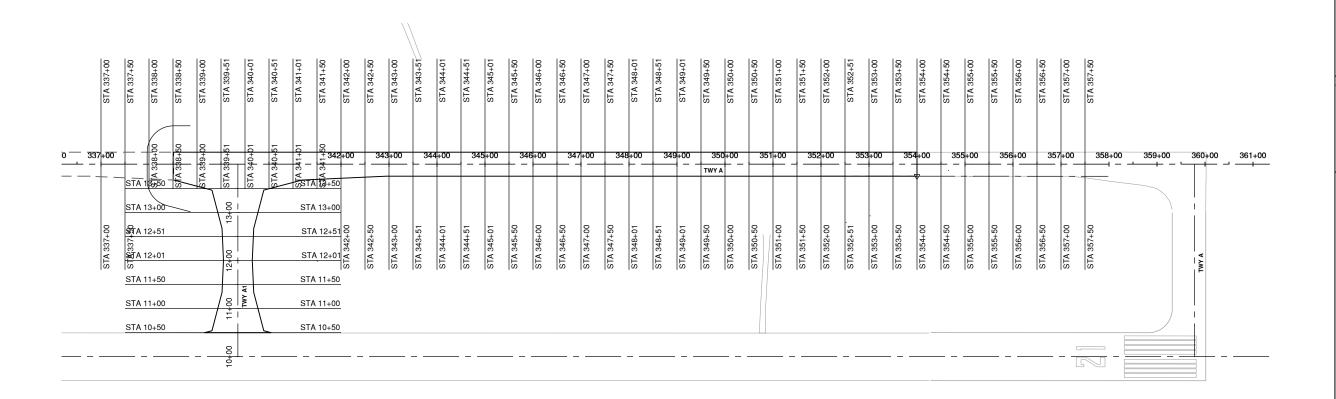
IL. PROJ. NO. DNV-4742 CONTRACT: VE055 CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-ES500.DWG DESIGNED BY: A.IG DRAWN BY: CHECKED BY: MJD

APPROVED BY: COPYRIGHT

**ELECTRICAL DETAILS** 

ES505 70 SHEET **50** 



TAXIWAY A - EARTH WORK VOLUME										
STATION	CUT AREA (S.F.)	FILL AREA (S.F.)	CUT VOL. (C.Y.)	CUM. CUT VOL. (C.Y)	FILL VOL. (C.Y.)	CUM. FILL VOL. (C.Y.)	CUM. TOTAL VOL. (C.Y.)			
337+00	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
337+50	64.1	14.3	59.4	59.4	13.2	13.2	46.1			
338+00	162.8	24.9	210.1	269.4	36.3	49.5	219.9			
338+50	126.1	129.6	267.5	536.9	143.1	192.6	344.4			
339+00	131.3	41.3	238.3	775.3	158.2	350.8	424.4			
339+50	97.3	55.4	211.7	986.9	89.5	440.4	546.6			
340+00	69.0	66.0	154.0	1140.9	112.4	552.8	588.1			
340+50	43.1	58.6	103.8	1244.7	115.4	668.1	576.6			
341+00	0.0	101.6	39.9	1284.6	148.3	816.5	468.1			
341+50	10.1	109.4	9.4	1294.0	195.4	1011.9	282.1			
342+00	117.4	71.7	118.1	1412.0	167.7	1179.5	232.5			
342+50	174.2	62.4	270.0	1682.0	124.2	1303.7	378.3			
343+00	175.5	85.8	323.8	2005.8	137.2	1440.9	564.9			
343+50	150.0	111.2	301.4	2307.2	182.4	1623.3	683.9			
344+00	146.9	151.6	274.9	2582.1	243.3	1866.7	715.5			
344+50	147.3	60.3	272.4	2854.5	196.2	2062.9	791.7			
345+00	134.1	136.6	260.6	3115.1	182.3	2245.2	869.9			
345+50	136.0	176.0	250.1	3365.2	289.4	2534.6	830.6			
346+00	136.9	165.1	252.7	3617.9	315.8	2850.5	767.4			
346+50	125.8	138.4	243.2	3861.1	281.0	3131.5	729.6			
347+00	124.5	114.3	231.8	4092.9	234.0	3365.5	727.4			
347+50	154.6	120.1	258.4	4351.3	217.0	3582.5	768.8			
348+00	168.2	113.9	298.9	4650.2	216.7	3799.2	851.0			
348+50	147.1	114.4	291.9	4942.1	211.4	4010.6	931.6			
349+00	166.1	106.8	290.0	5232.1	204.8	4215.4	1016.8			
349+50	166.9	68.7	308.3	5540.5	162.5	4377.9	1162.6			
350+00	154.7	124.3	297.8	5838.2	178.7	4556.6	1281.7			
350+50	167.1	179.1	298.0	6136.2	280.9	4837.5	1298.7			
351+00	177.8	238.5	319.4	6455.6	386.7	5224.2	1231.4			
351+50	192.6	262.3	343.0	6798.5	463.7	5687.9	1110.6			
352+00	213.7	265.0	376.2	7174.7	488.2	6176.1	998.6			
352+50	222.9	221.1	404.3	7579.0	450.1	6626.2	952.8			
353+00	223.1	49.5	413.0	7991.9	250.6	6876.8	1115.2			
353+50	244.4	27.1	432.9	8424.8	70.9	6947.7	1477.1			
354+00	275.0	27.1	480.9	8905.7	50.2	6997.9	1907.9			
354+50	292.2	29.7	525.2	9430.9	52.6	7050.5	2380.5			
355+00	273.1	3.3	523.4	9954.4	30.6	7081.0	2873.3			
355+50	231.3	1.5	467.0	10421.4	4.4	7085.5	3335.9			
356+00	169.4	33.5	371.0	10792.4	32.4	7117.9	3674.5			
356+50	189.2	34.2	332.0	11124.4	62.7	7180.6	3943.9			
357+00	208.1	16.4	367.9	11492.3	46.9	7227.4	4264.9			

TAXIWAY A1 - EARTH WORK VOLUME									
STATI	CUT AREA (S.F.)	FILL AREA (S.F.)	CUT VOL. (C.Y.)	CUM. CUT VOL. (C.Y)	FILL VOL. (C.Y.)	CUM. FILL VOL. (C.Y.)	CUM. TOTAL VOL. (C.Y.)		
10+50	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11+00	65.1	4.2	60.3	60.3	3.9	3.9	56.4		
11+50	54.0	2.6	110.3	170.6	6.3	10.2	160.4		
12+00	38.9	6.8	86.0	256.6	8.7	18.9	237.7		
12+50	219.6	9.4	239.4	495.9	15.0	33.9	462.0		
13+00	44.3	44.8	244.4	740.3	50.2	84.1	656.2		
13+50	0.0	377.2	41.0	781.3	390.7	474.8	306.5		





JUNE 18, 2021

**REALIGN TAXIWAY A - PHASE 1** 

OWNER



**VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS

MARK DATE DESCRIPTION

FED PROJ. NO. 3-17-SBGP-156/162

CONTRACT: VE055 IL. PROJ. NO. DNV-4742 CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-CG101.DWG

DESIGNED BY: AJG

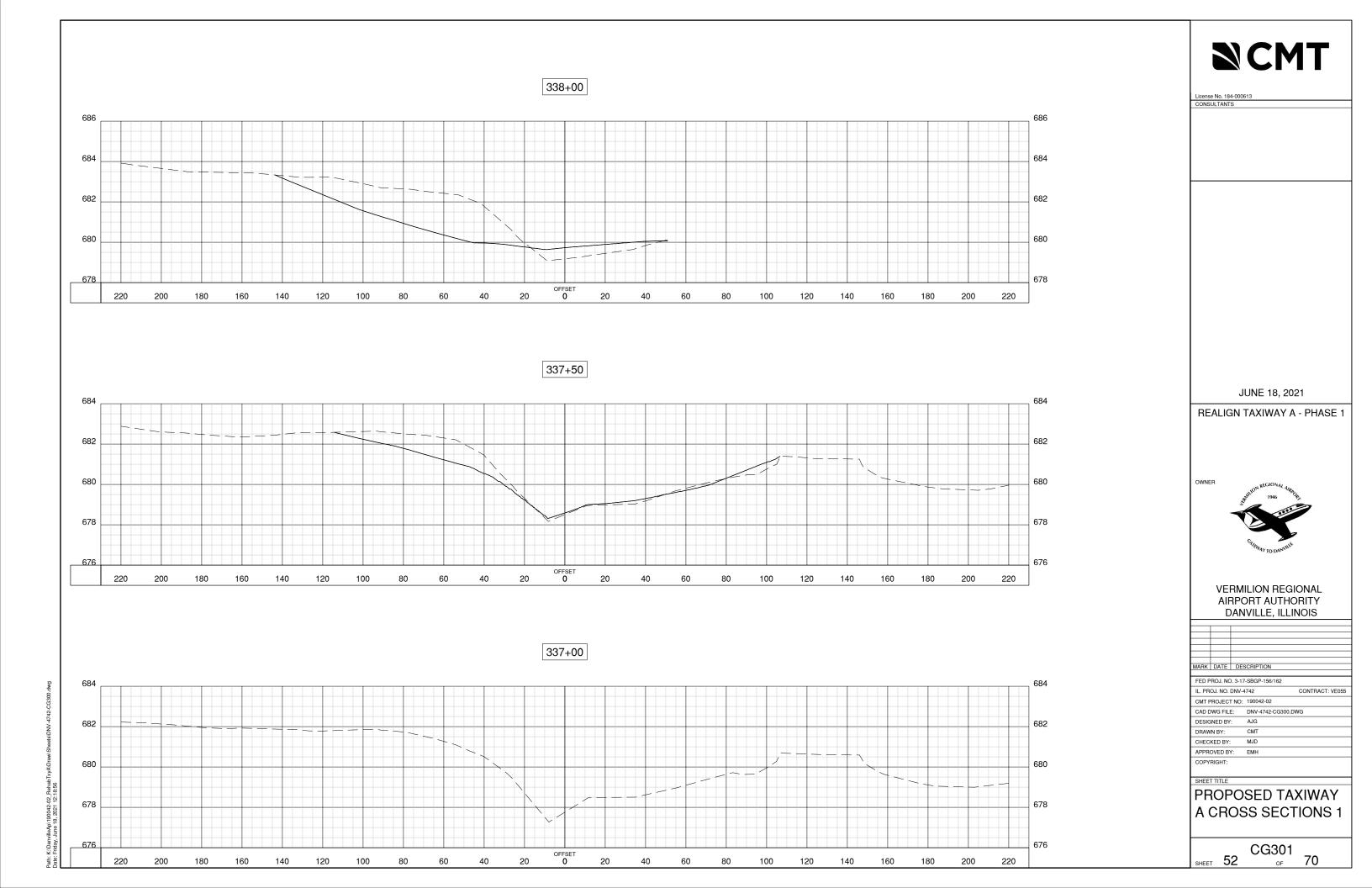
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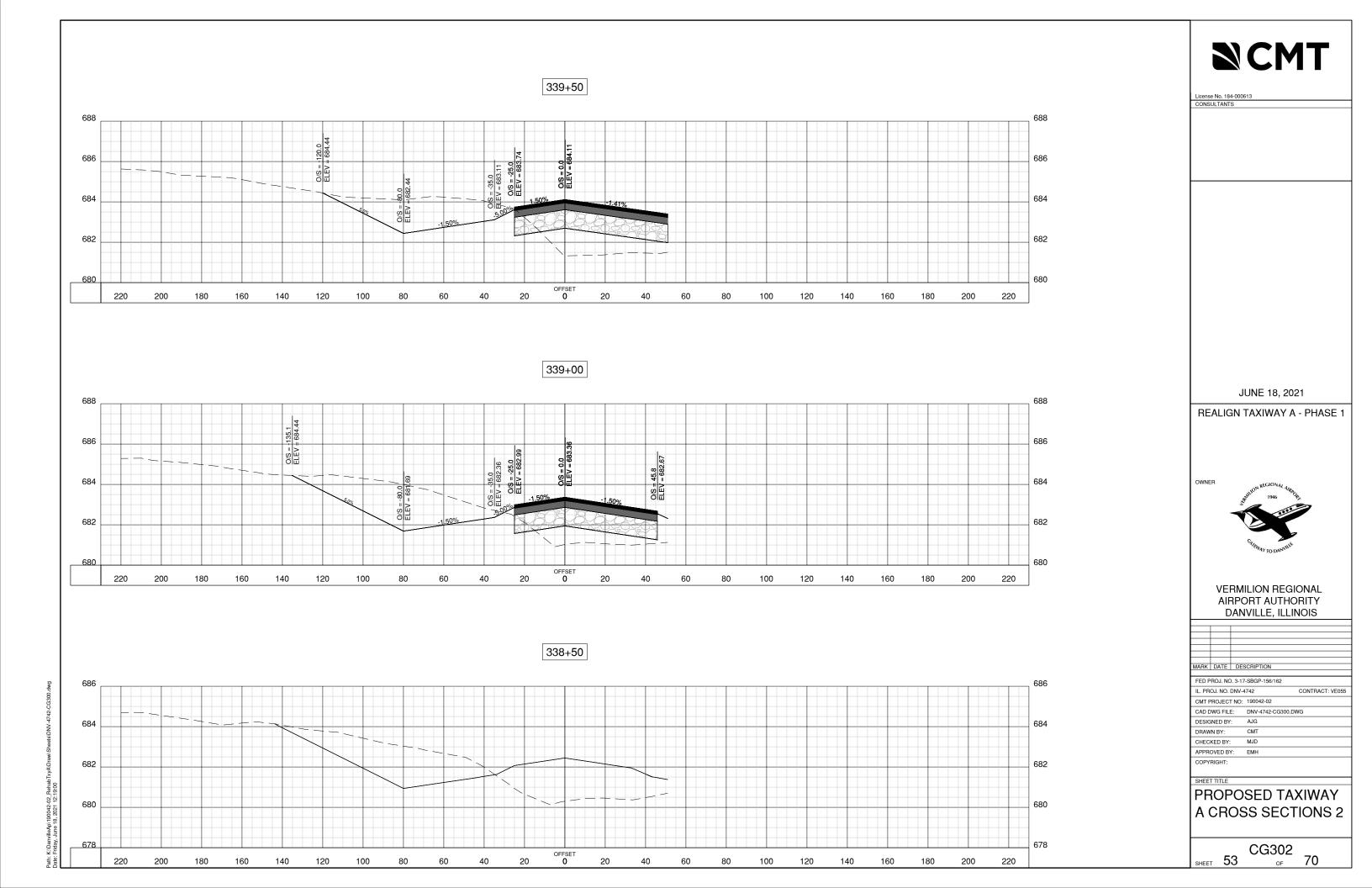
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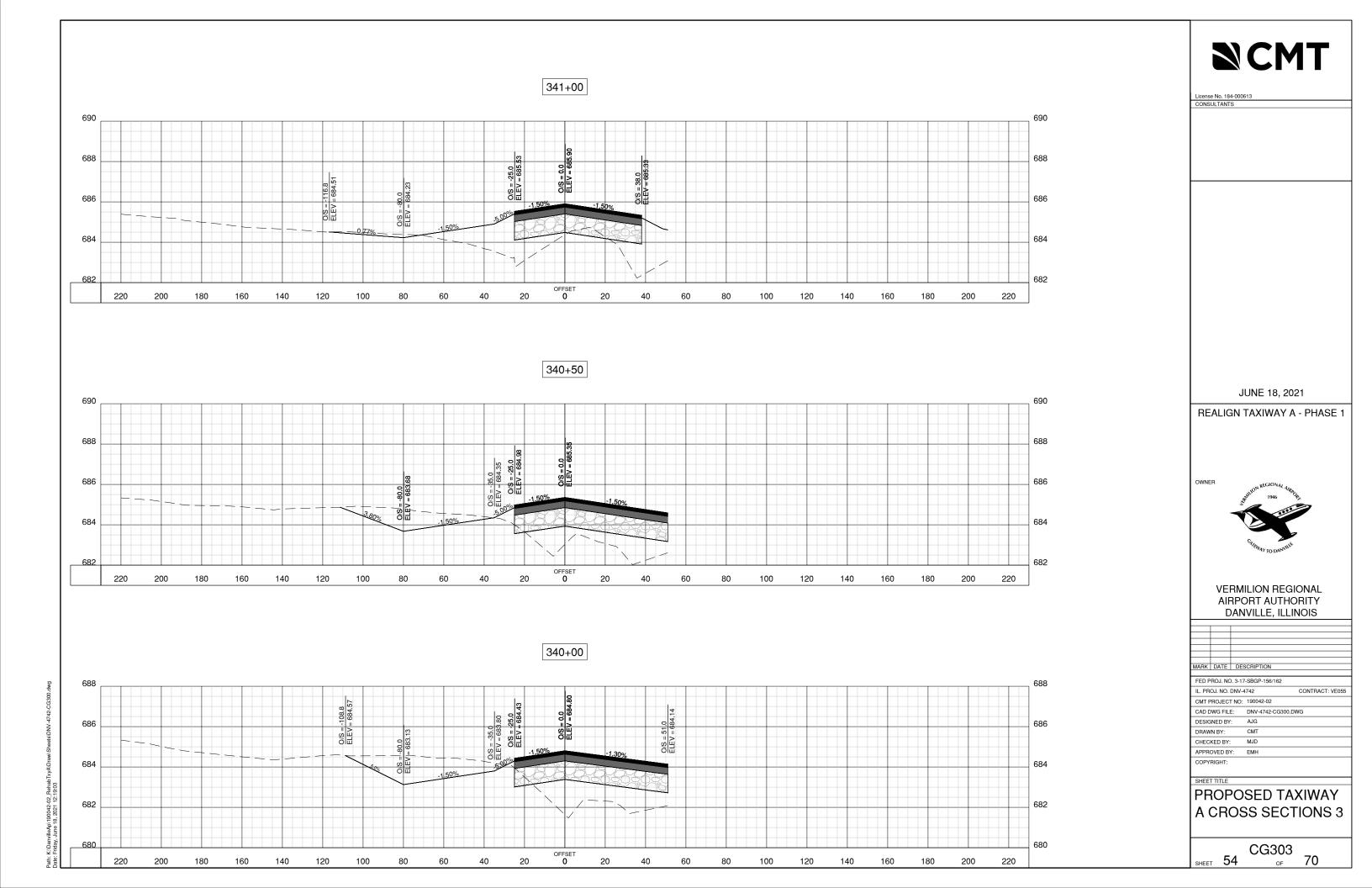
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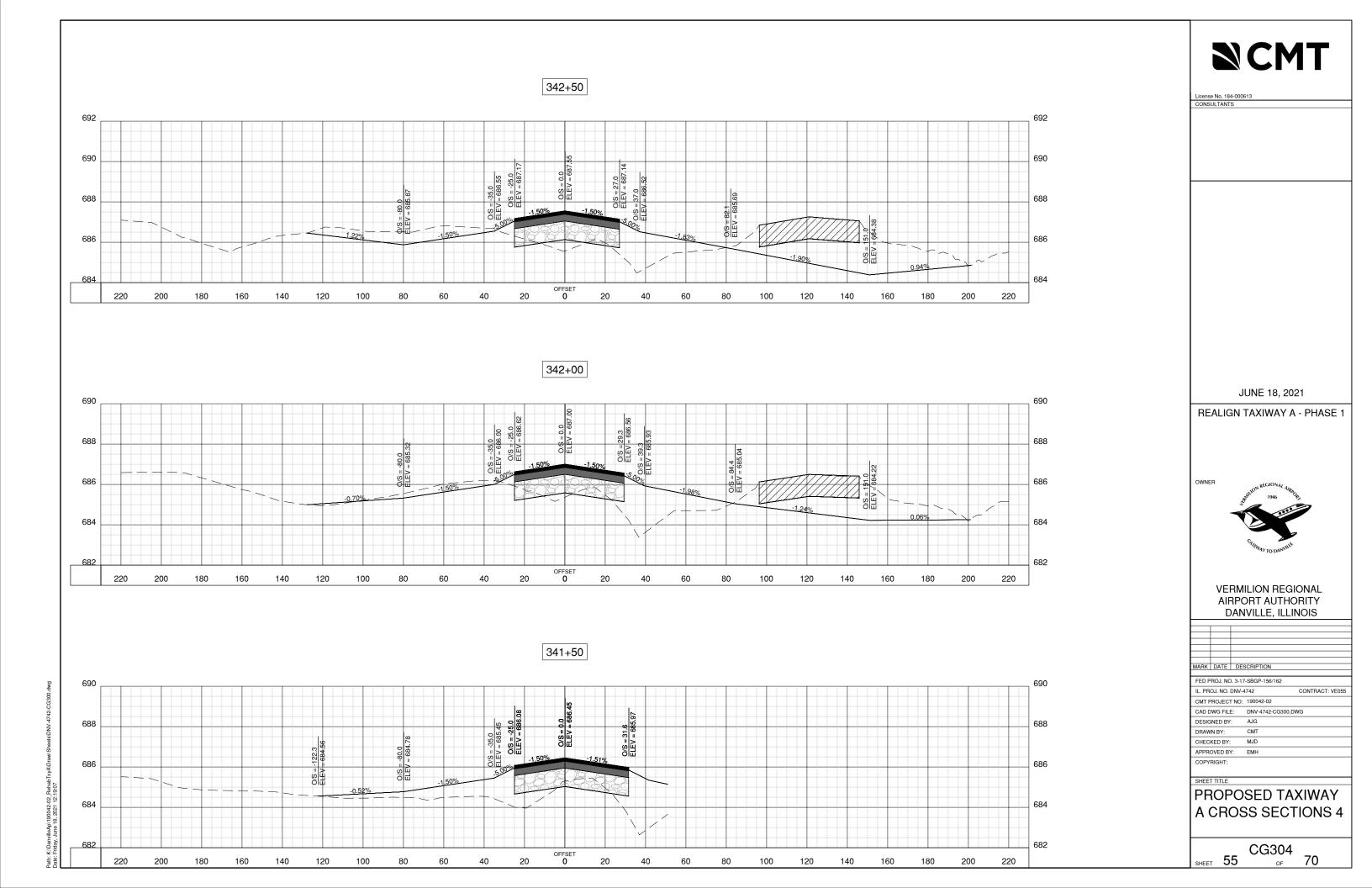
**CROSS SECTIONS INDEX** 

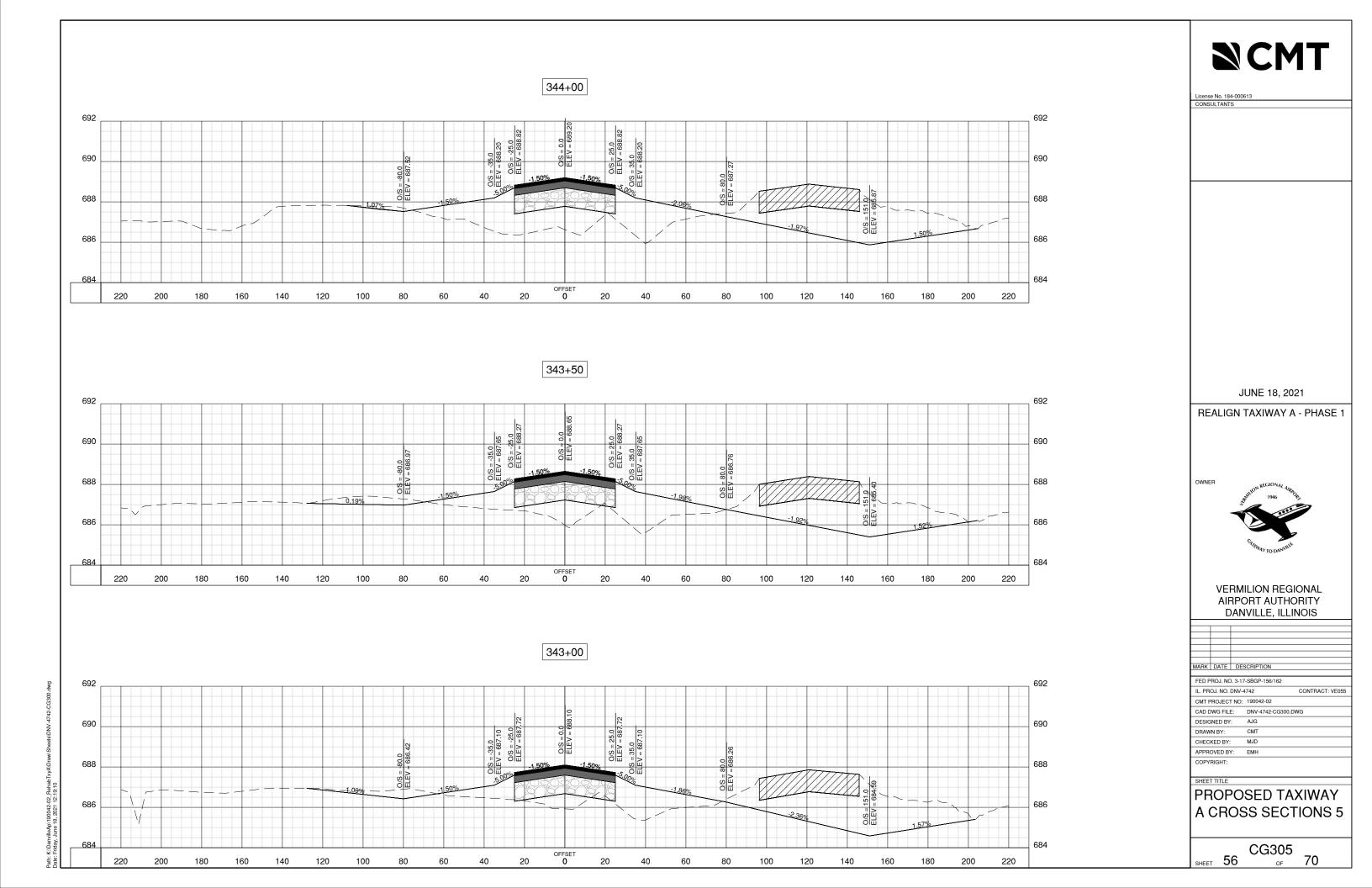
CG101 SHEET 51 70 OF

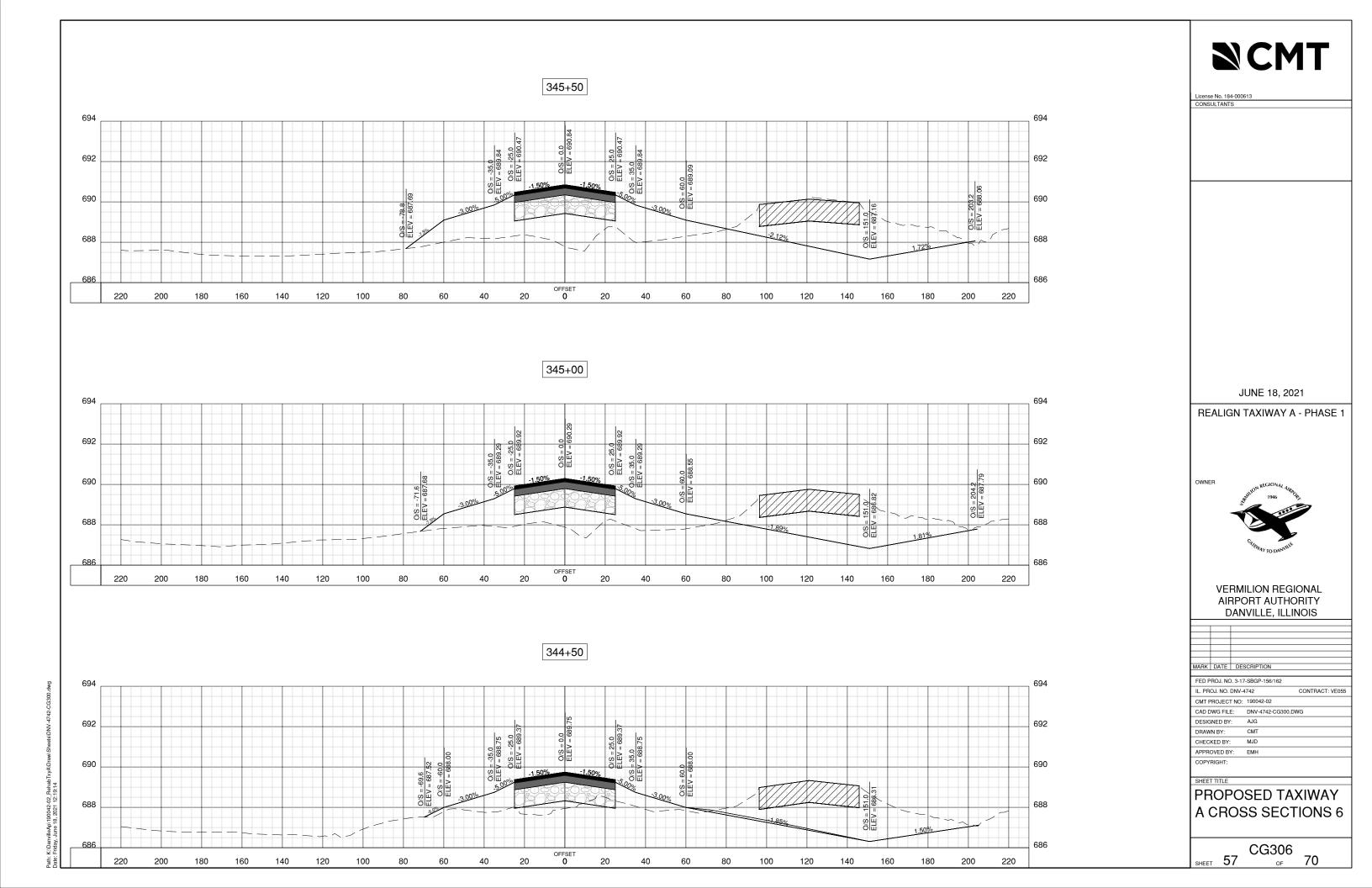


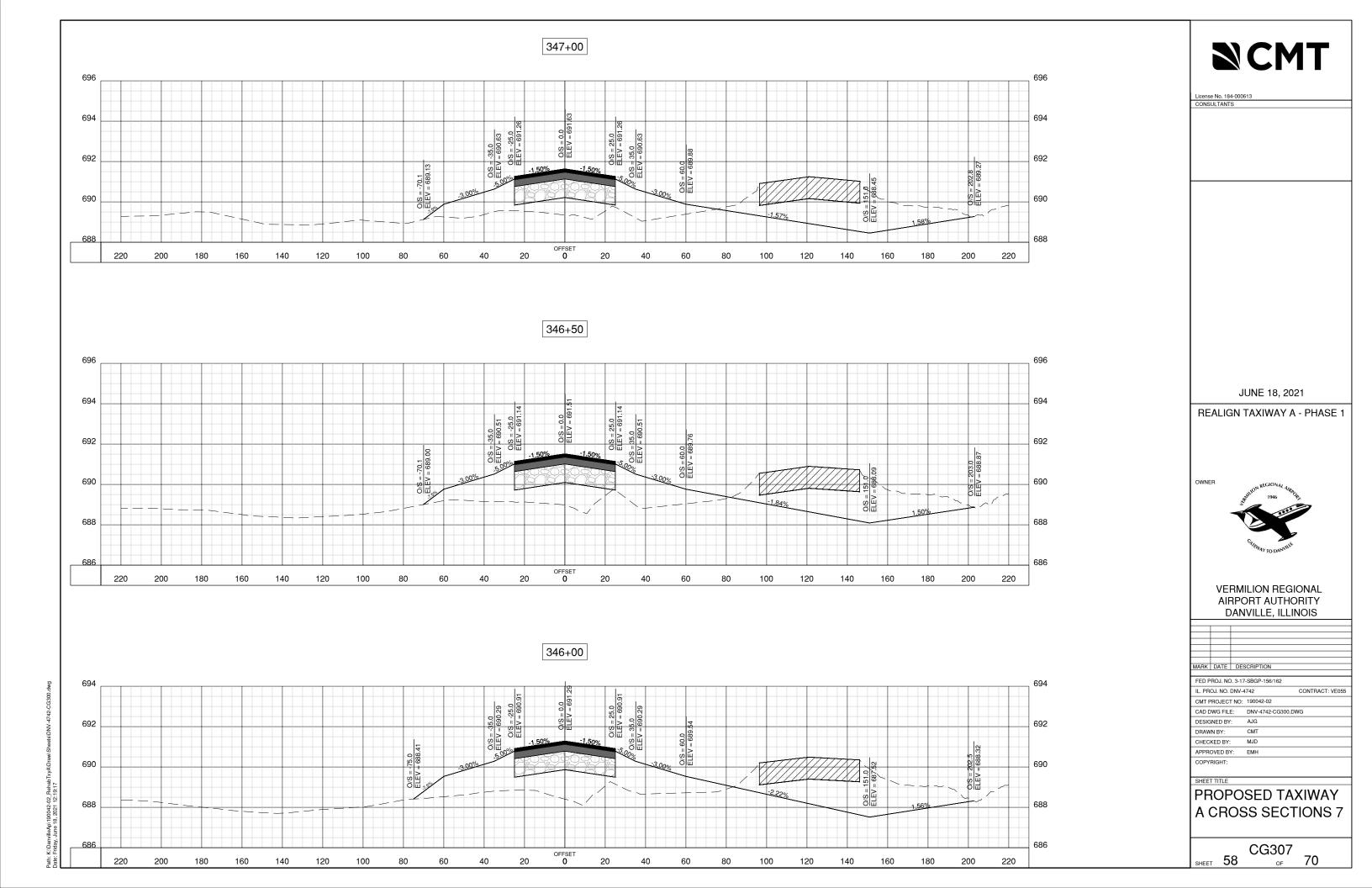


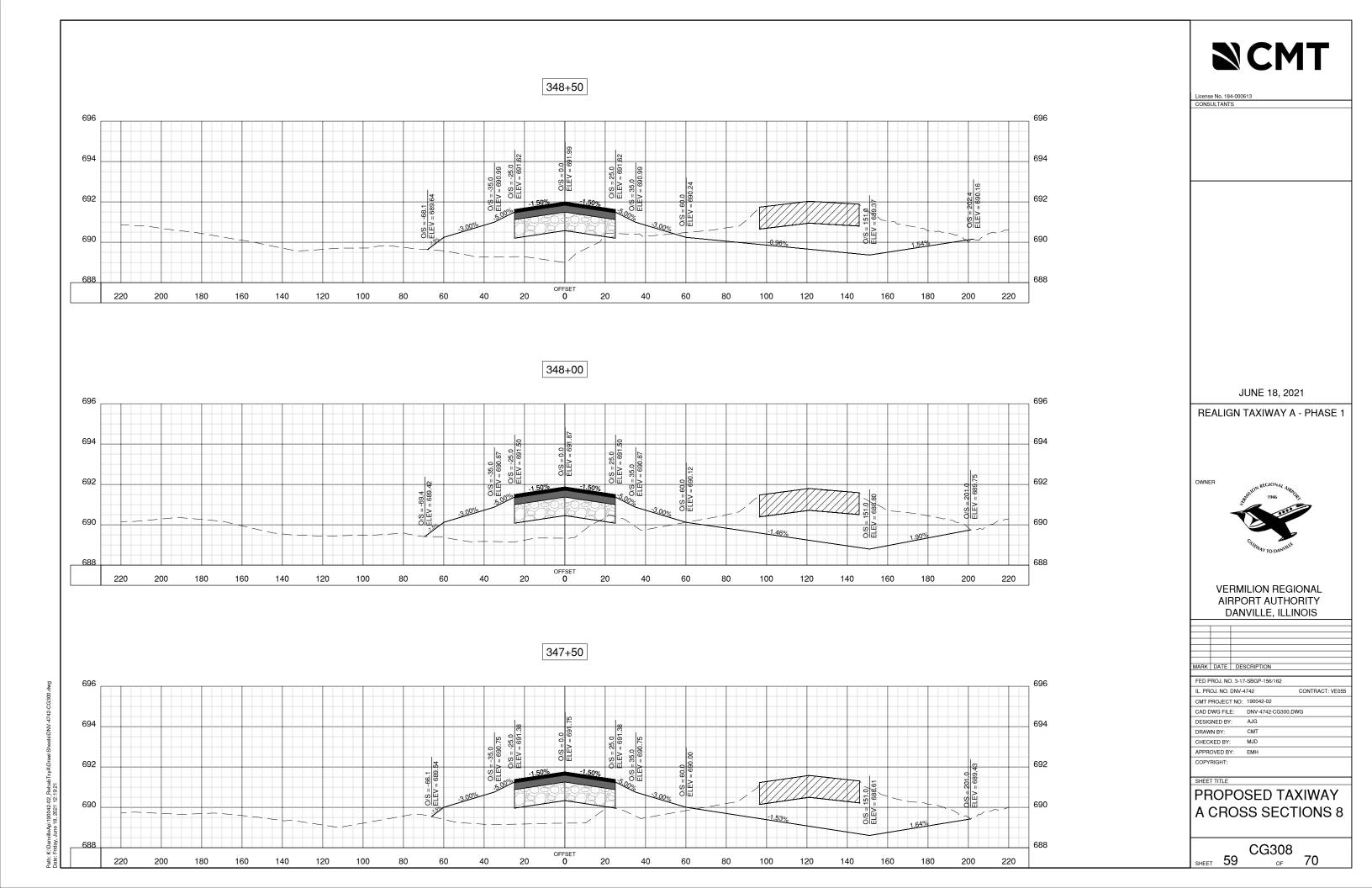


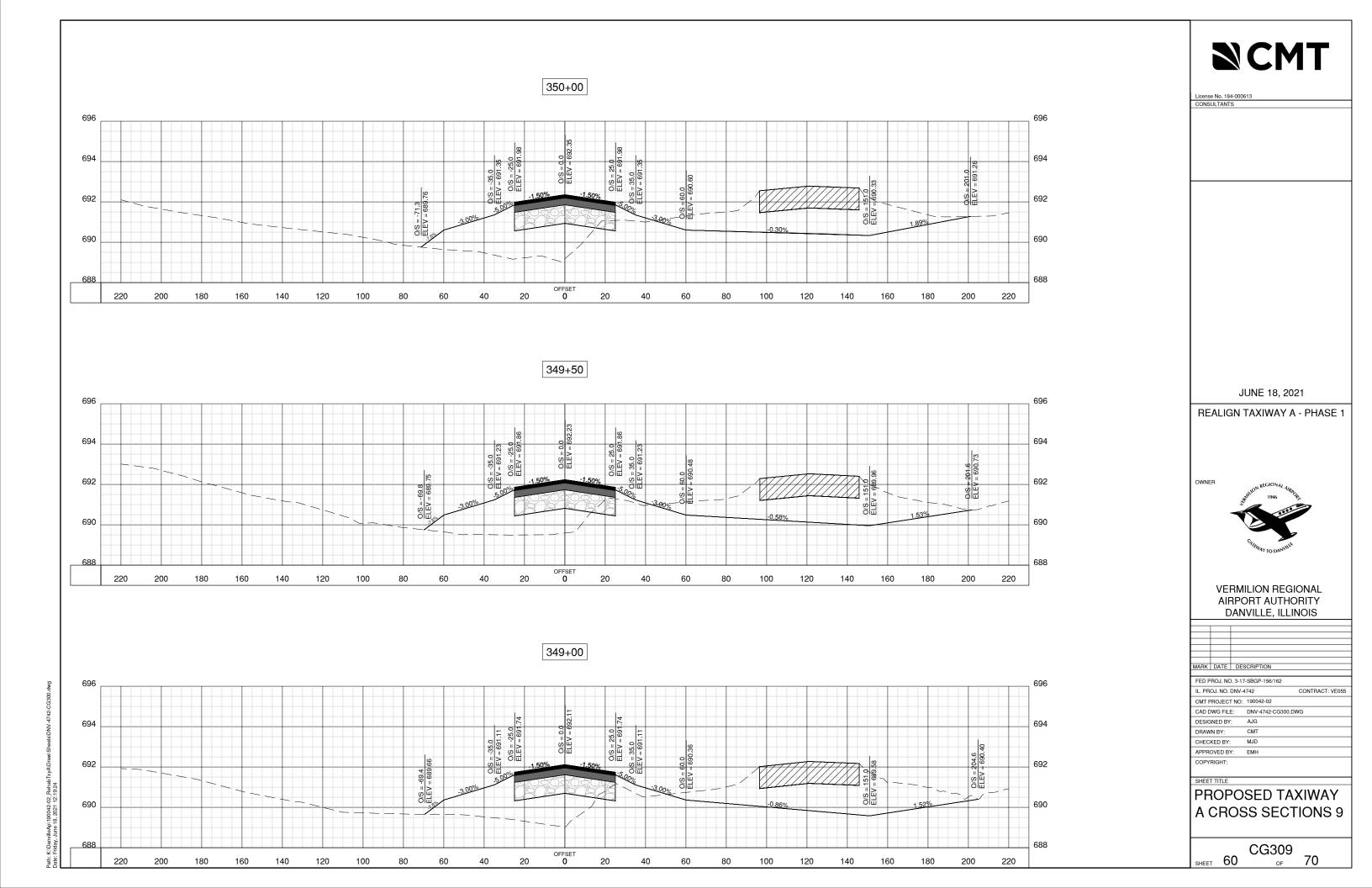


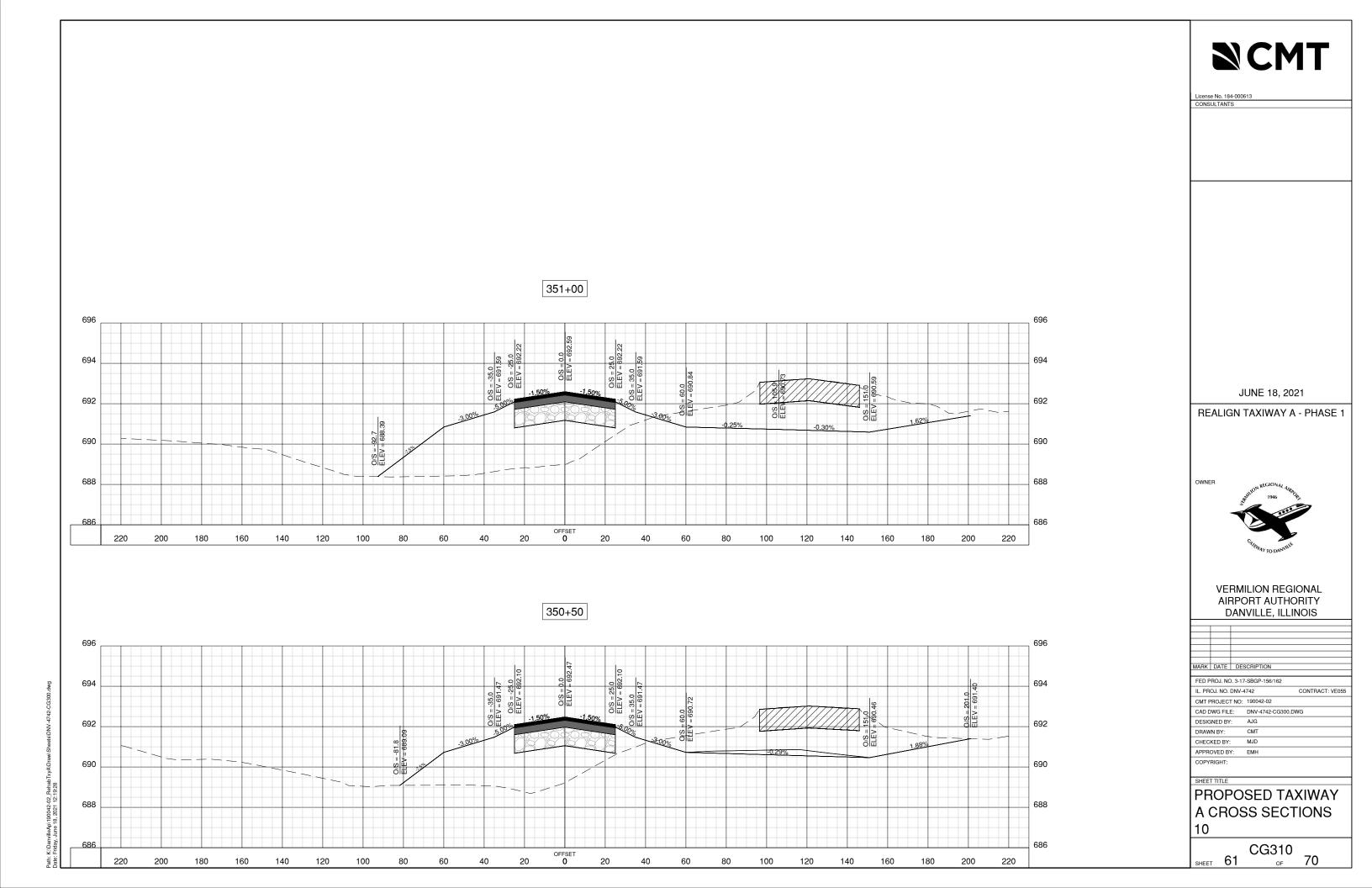


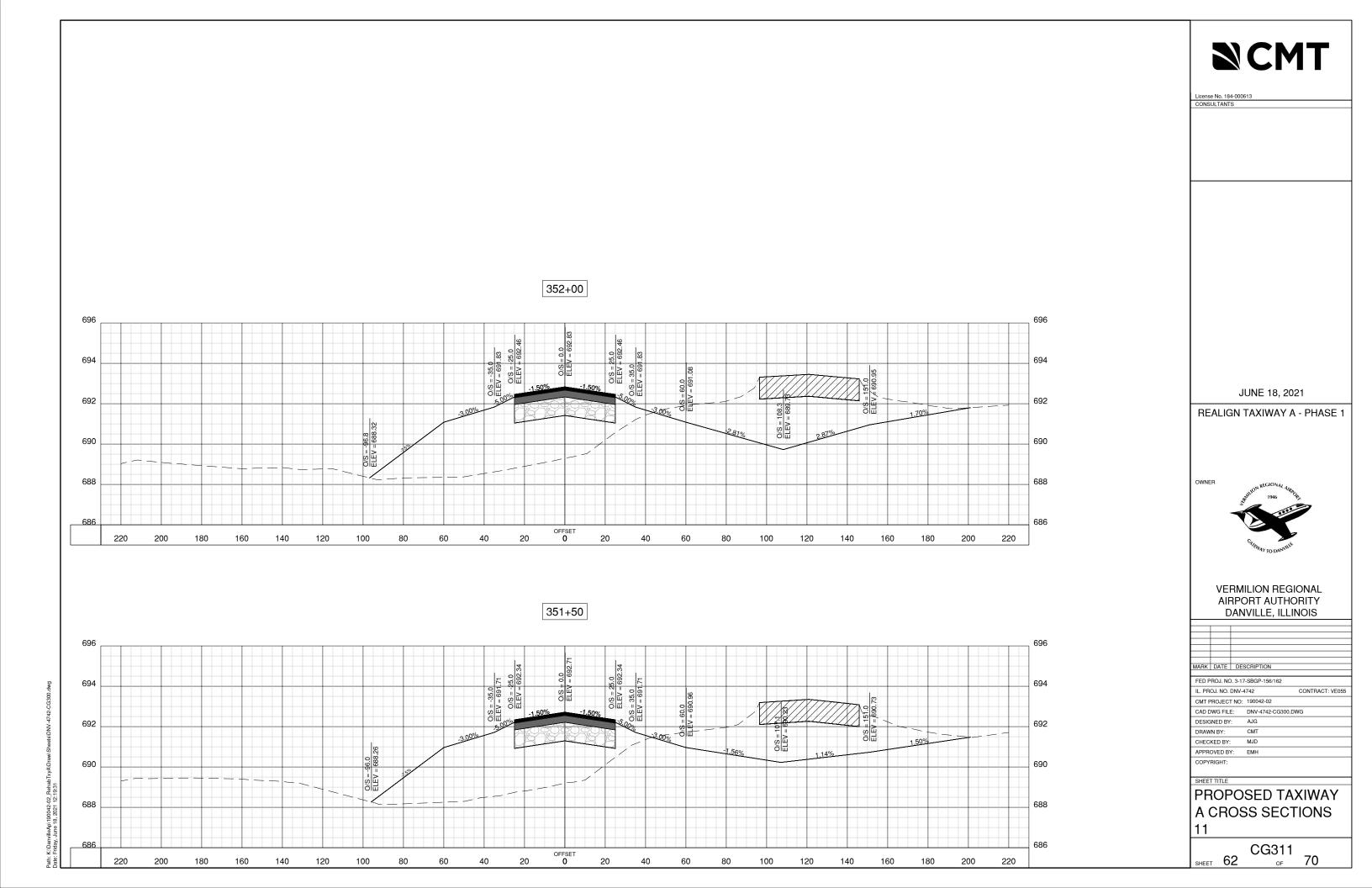


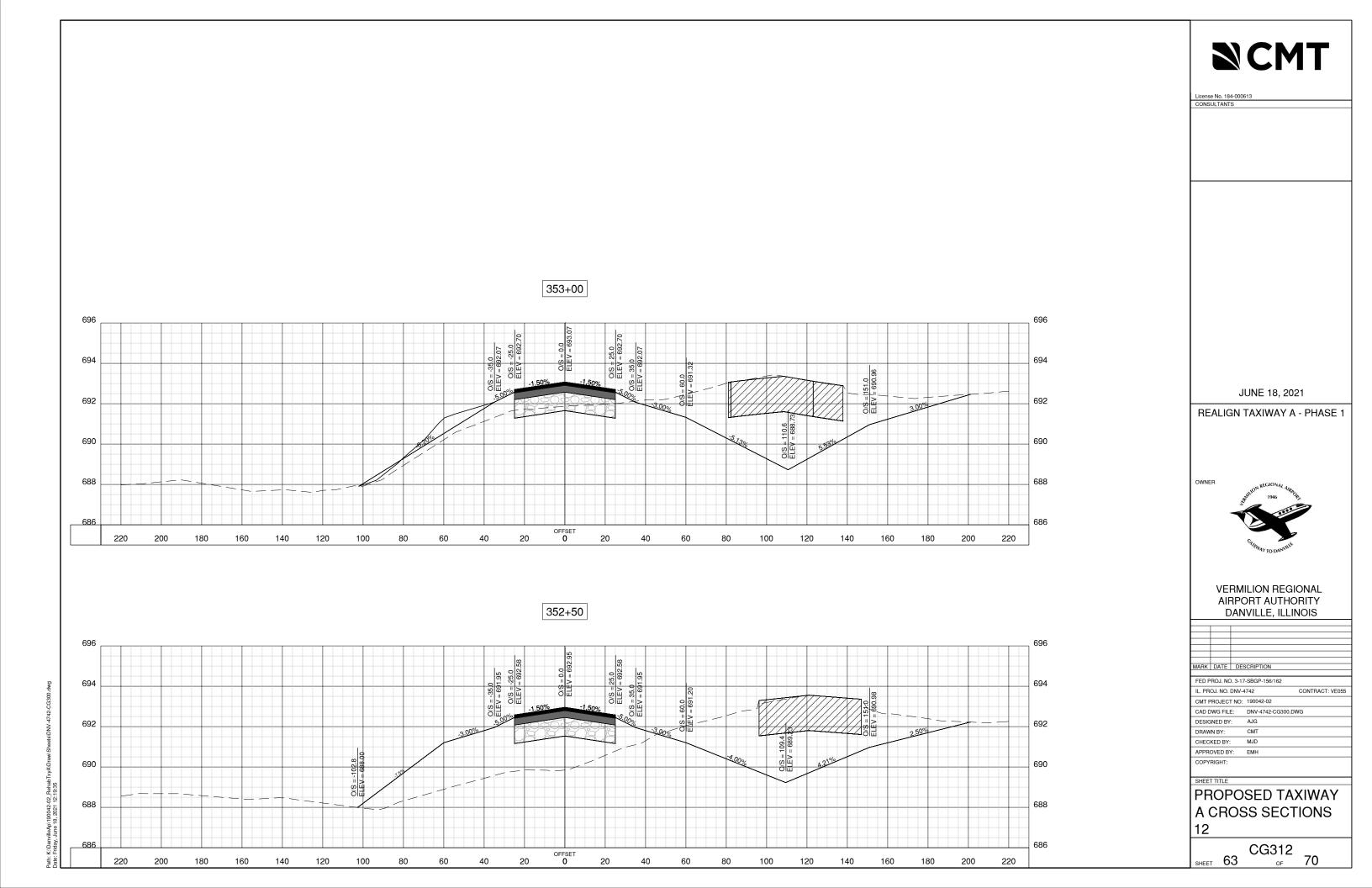


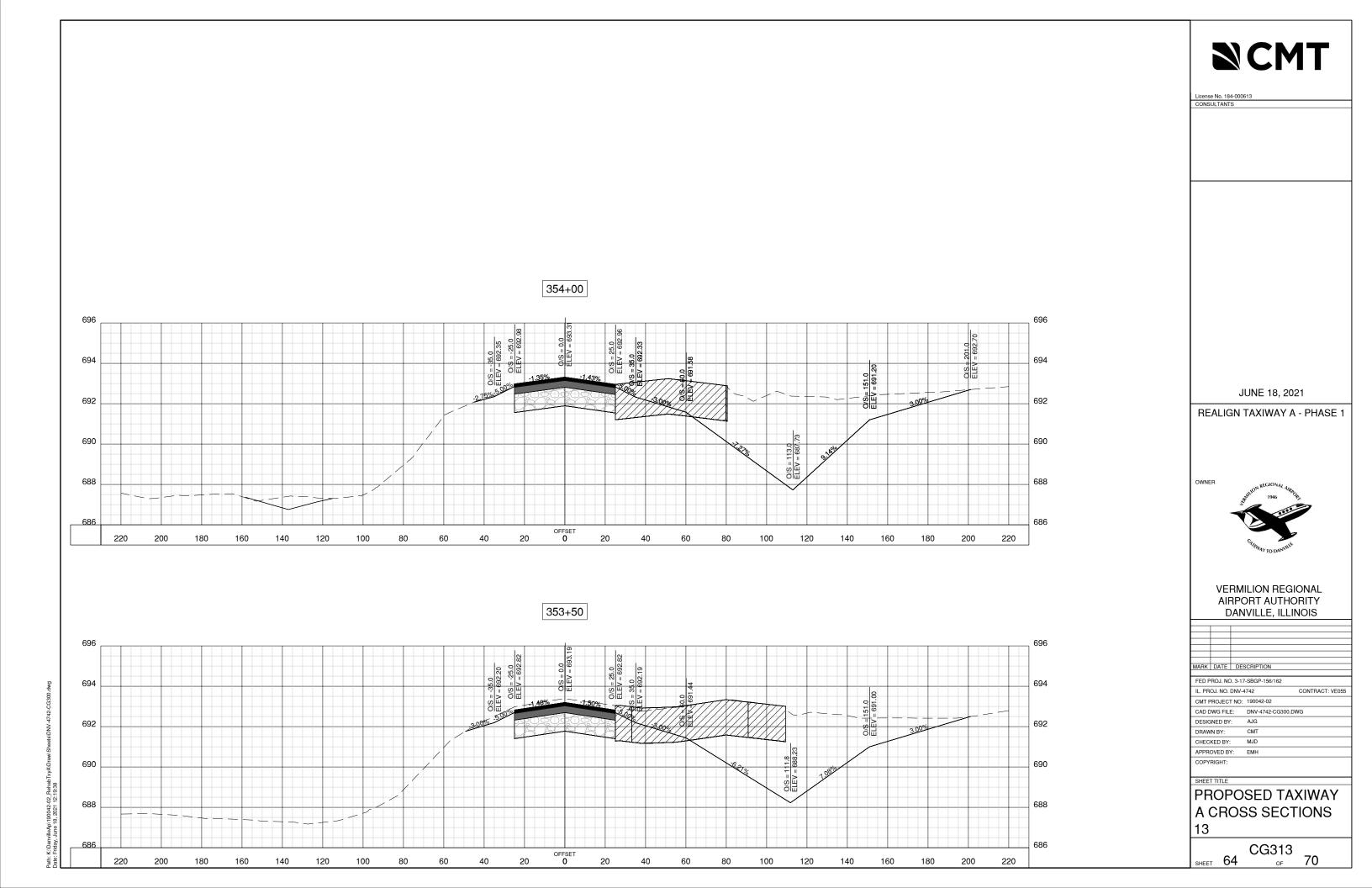


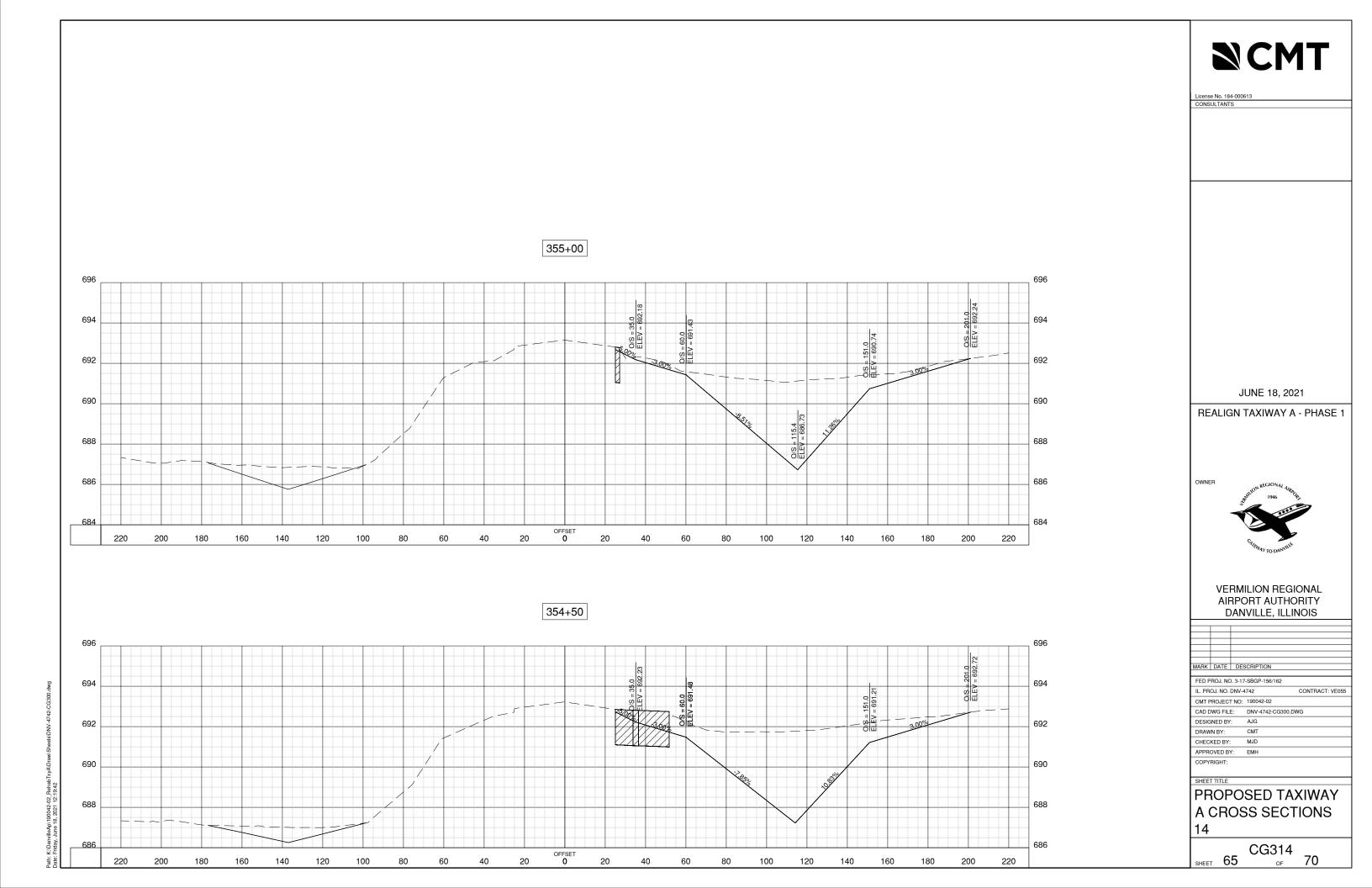


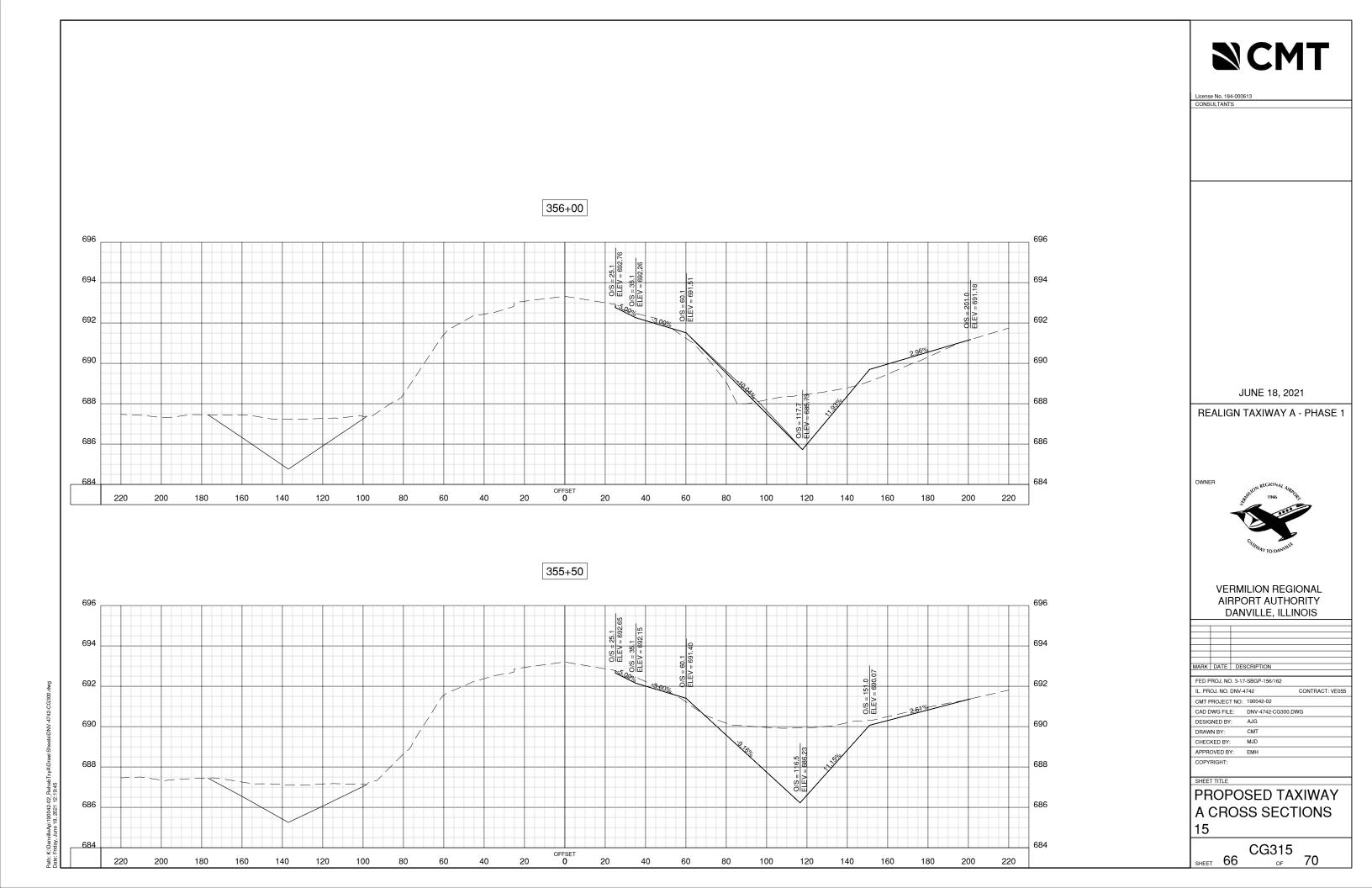


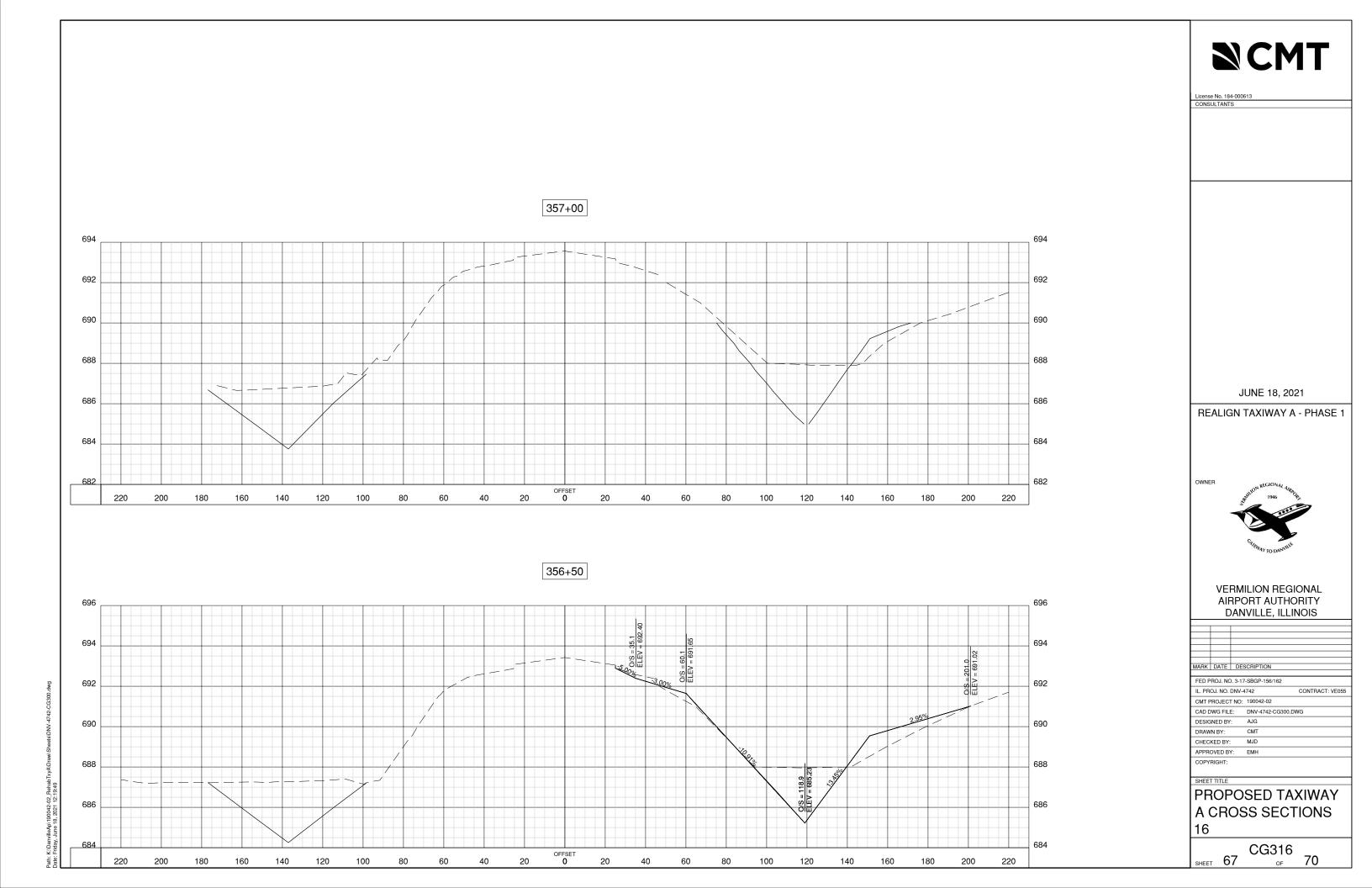


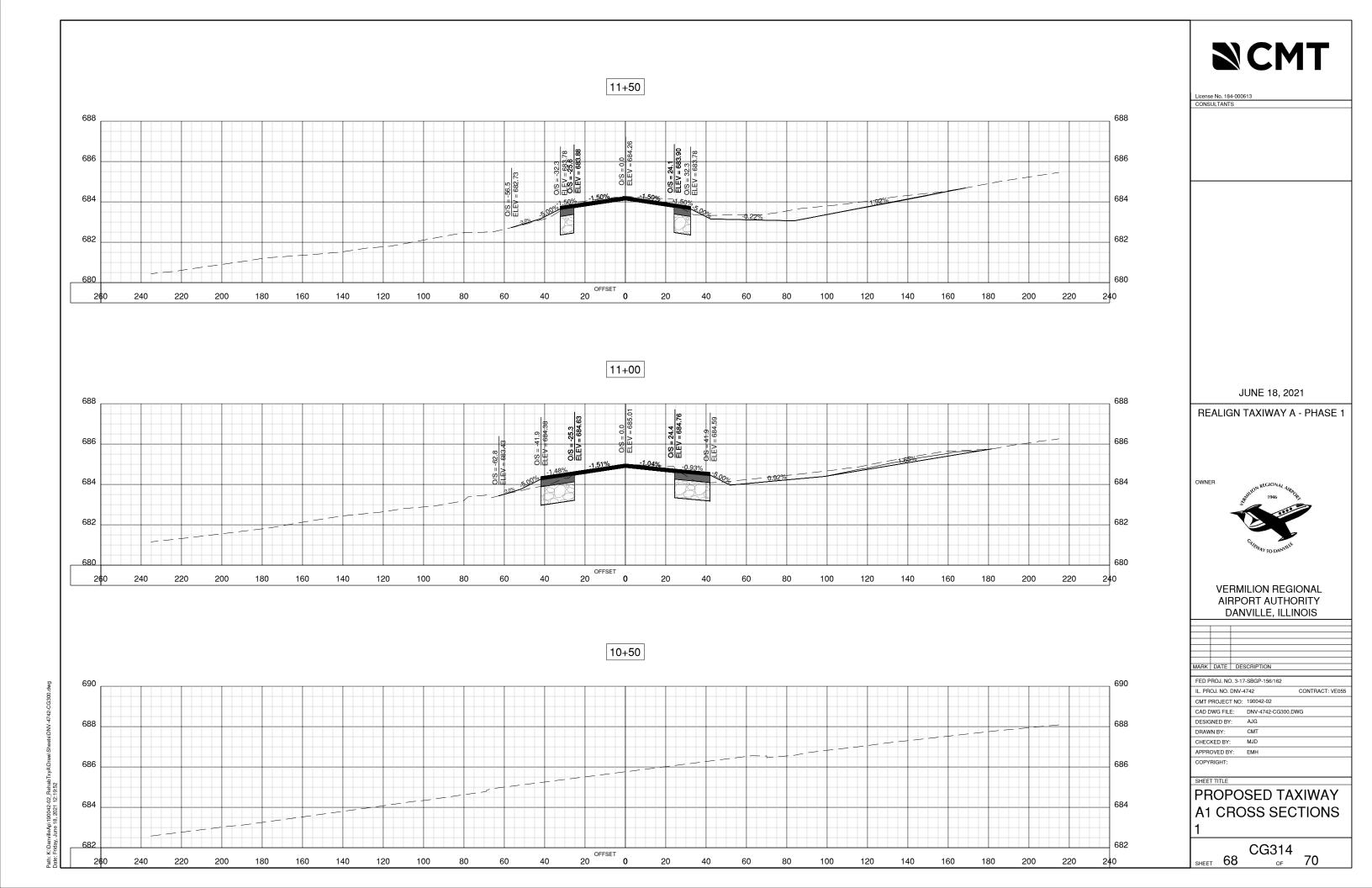


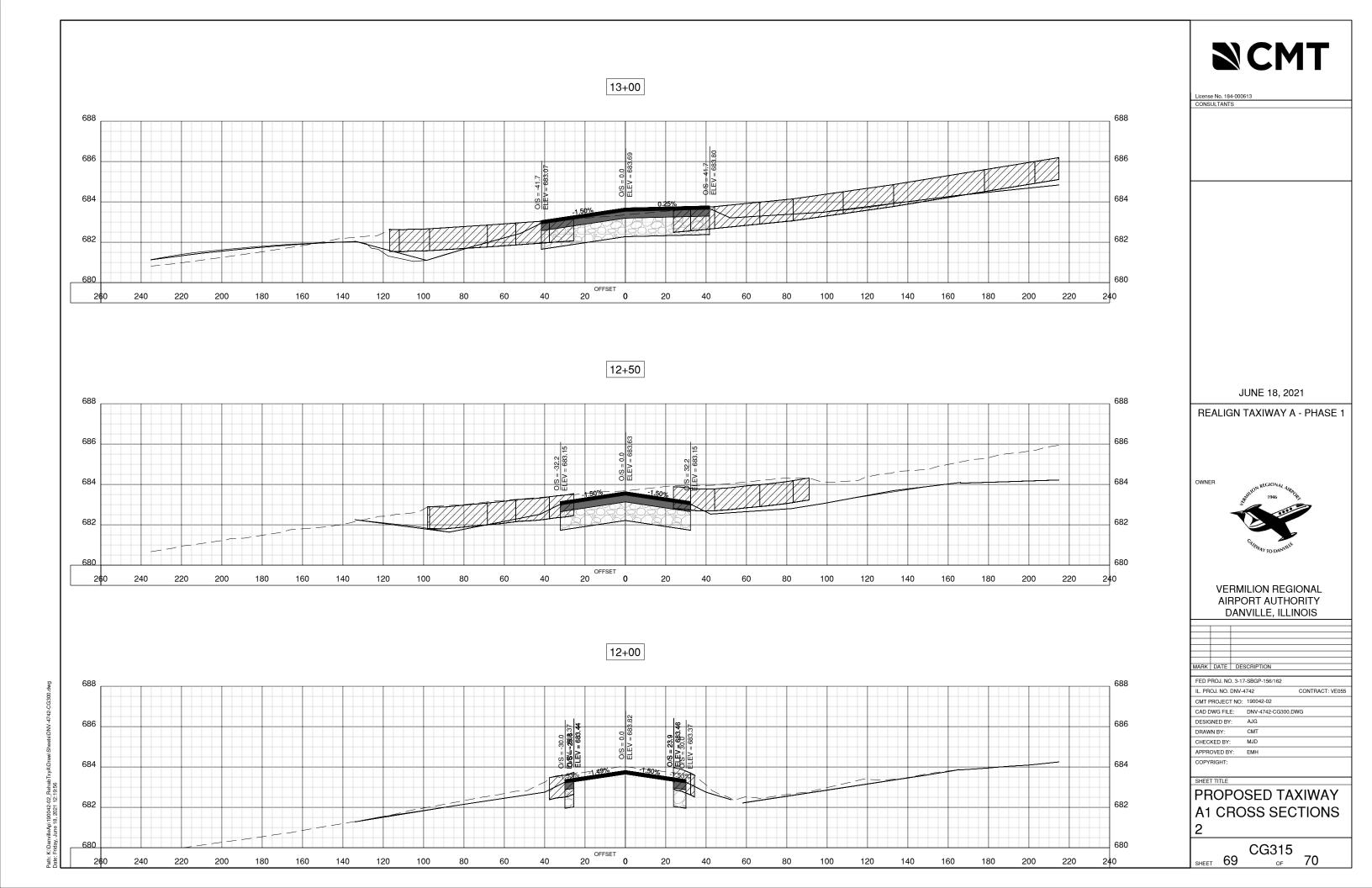












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CONSULTANTS JUNE 18, 2021 REALIGN TAXIWAY A - PHASE 1 **VERMILION REGIONAL** AIRPORT AUTHORITY DANVILLE, ILLINOIS 13+50 MARK DATE DESCRIPTION FED PROJ. NO. 3-17-SBGP-156/162 IL. PROJ. NO. DNV-4742 CONTRACT: VE055 CMT PROJECT NO: 190042-02 CAD DWG FILE: DNV-4742-CG300.DWG DESIGNED BY: AJG 684 684 DRAWN BY: CHECKED BY: MJD APPROVED BY: EMH COPYRIGHT: 682 682 SHEET TITLE PROPOSED TAXIWAY 680 680 A1 CROSS SECTIONS 678 678 CG316 70 of 70 OFFSET 20 40 240 220 200 180 160 140 120 100 60 40 100 140 180 220