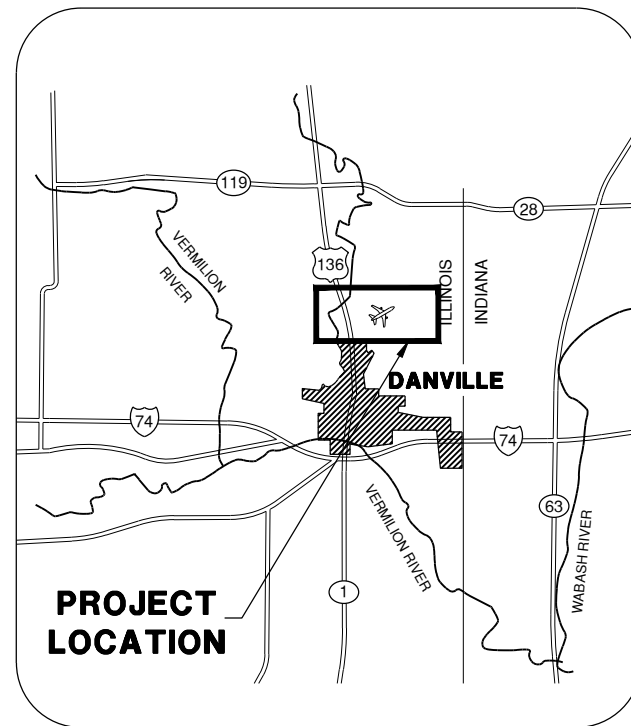


CONSTRUCTION PLANS FOR VERMILION REGIONAL AIRPORT AUTHORITY

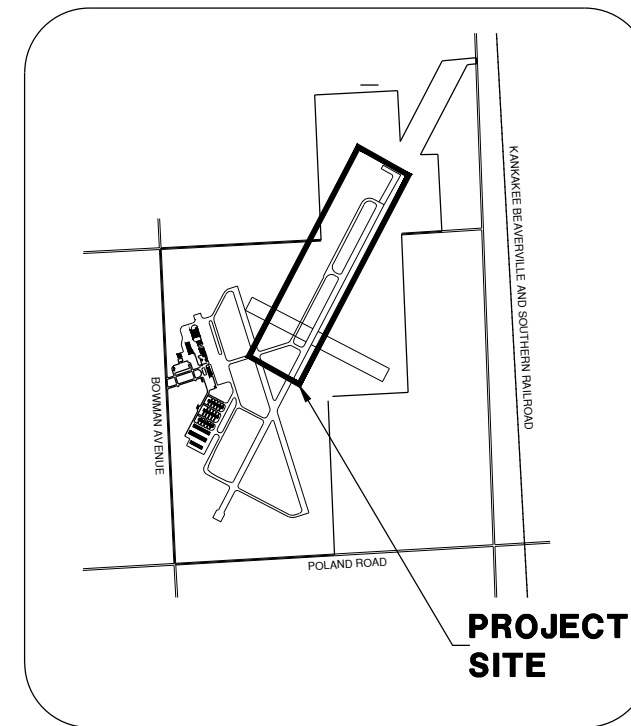
VERMILION REGIONAL AIRPORT DANVILLE, ILLINOIS

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

JUNE 18, 2021



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.

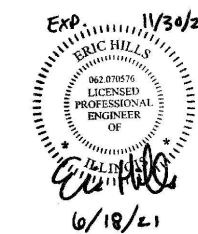
CALL J.U.L.I.E.
BEFORE EXCAVATING
1-800-892-0123

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: *Alexander M. Sale*
DATE: 6/18/21

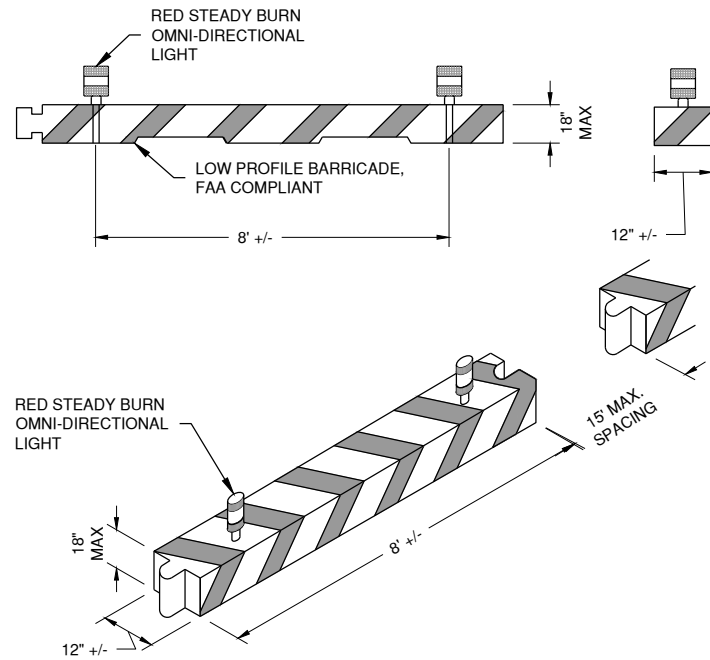


CMT
License No. 184-000613 © Copyright CMT, Inc.

SUBMITTED BY: *Eric Hills*
DATE: June 18, 2021

CMT JOB NUMBER: 190042-02

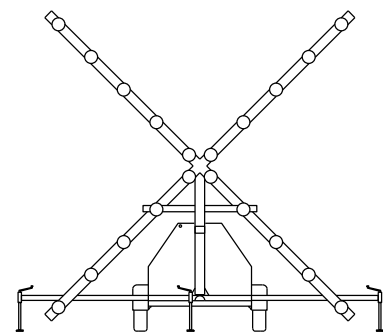
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FILE: DNV-4742-G1001.dwg
UPDATE BY: Andrew Gurski
PLOT DATE: 6/18/2021 12:06 PM



1 BEAM BARRICADE DETAIL
N.T.S

BEAM BARRICADE NOTES

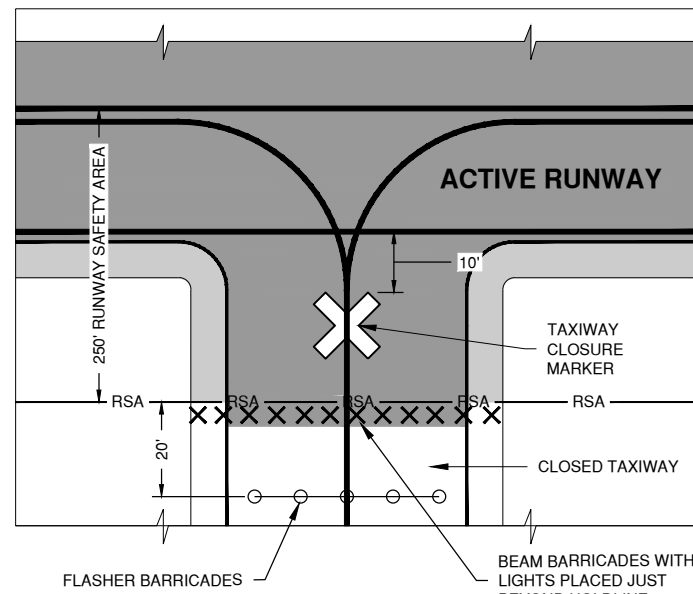
1. BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
2. BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AS SHOWN IN PLANS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



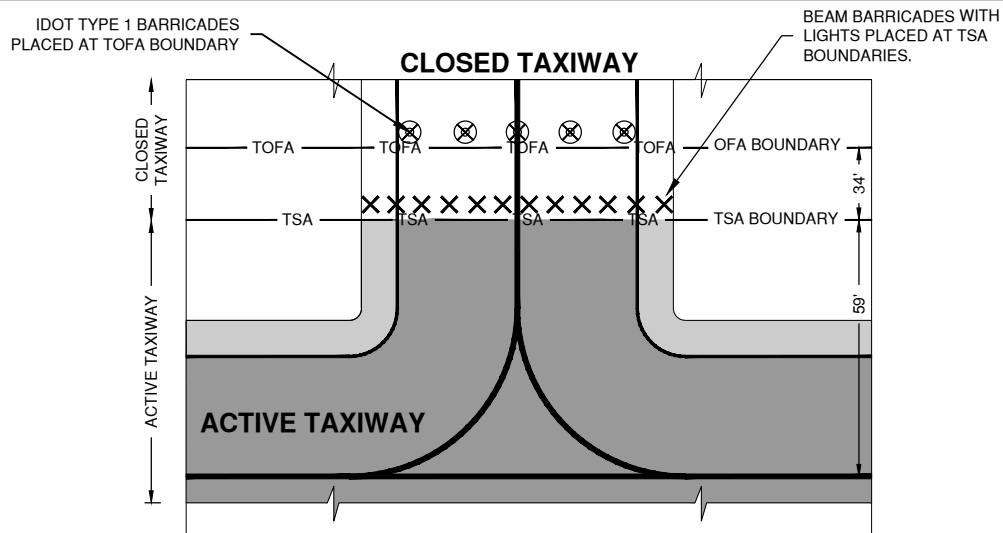
2 LIGHTED RUNWAY CLOSURE MARKER DETAIL
N.T.S

LIGHTED RUNWAY CLOSURE MARKER NOTES

1. 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 PROJECT.



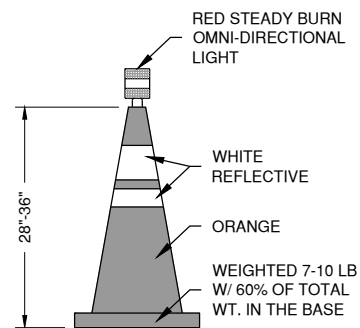
3 CLOSED TAXIWAY / ACTIVE RUNWAY BARRICADE DETAIL
N.T.S



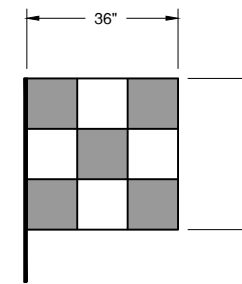
4 CLOSED TAXIWAY/ ACTIVE TAXIWAY BARRICADE DETAIL
N.T.S

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. 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).
6. BARRICADES SHALL BE PLACED WITH MAXIMUM 15' SPACING.



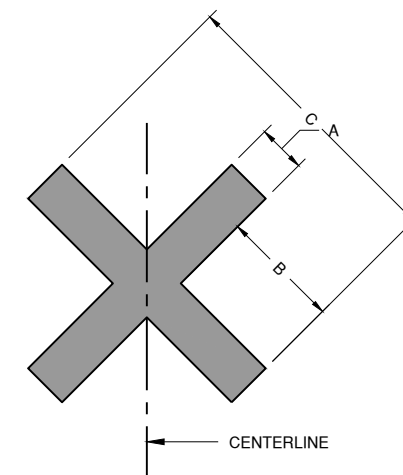
5 LIGHTED CONE DETAIL
N.T.S



6 EQUIPMENT & VEHICLE SIGNAL FLAG DETAIL
N.T.S (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.
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 CLOSURE MARKER DETAIL
N.T.S

NOTES

1. CLOSURE MARKERS SHALL BE SOLID YELLOW.
2. MARKERS SHALL BE PLACED ON TAXIWAYS AT THE RUNWAY INTERSECTIONS INSIDE THE RUNWAY SAFETY AREA.
3. MARKERS SHALL BE PLACED ON RUNWAYS TO COVER THE NUMERALS ON BOTH ENDS.
4. MARKERS MAY BE CONSTRUCTED OF FABRIC, COLORED PLASTIC, PAINTED SHEETS OF PLYWOOD OR SIMILAR MATERIALS.
5. 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.

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

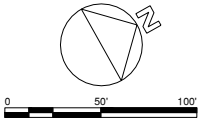


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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-GC500.DWG	DESIGNED BY: AJG
DRAWN BY: CMT	CHECKED BY: MJD
APPROVED BY: EMH	COPYRIGHT:

SHEET TITLE
**CONSTRUCTION
ACTIVITY PLAN
DETAILS 1**



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

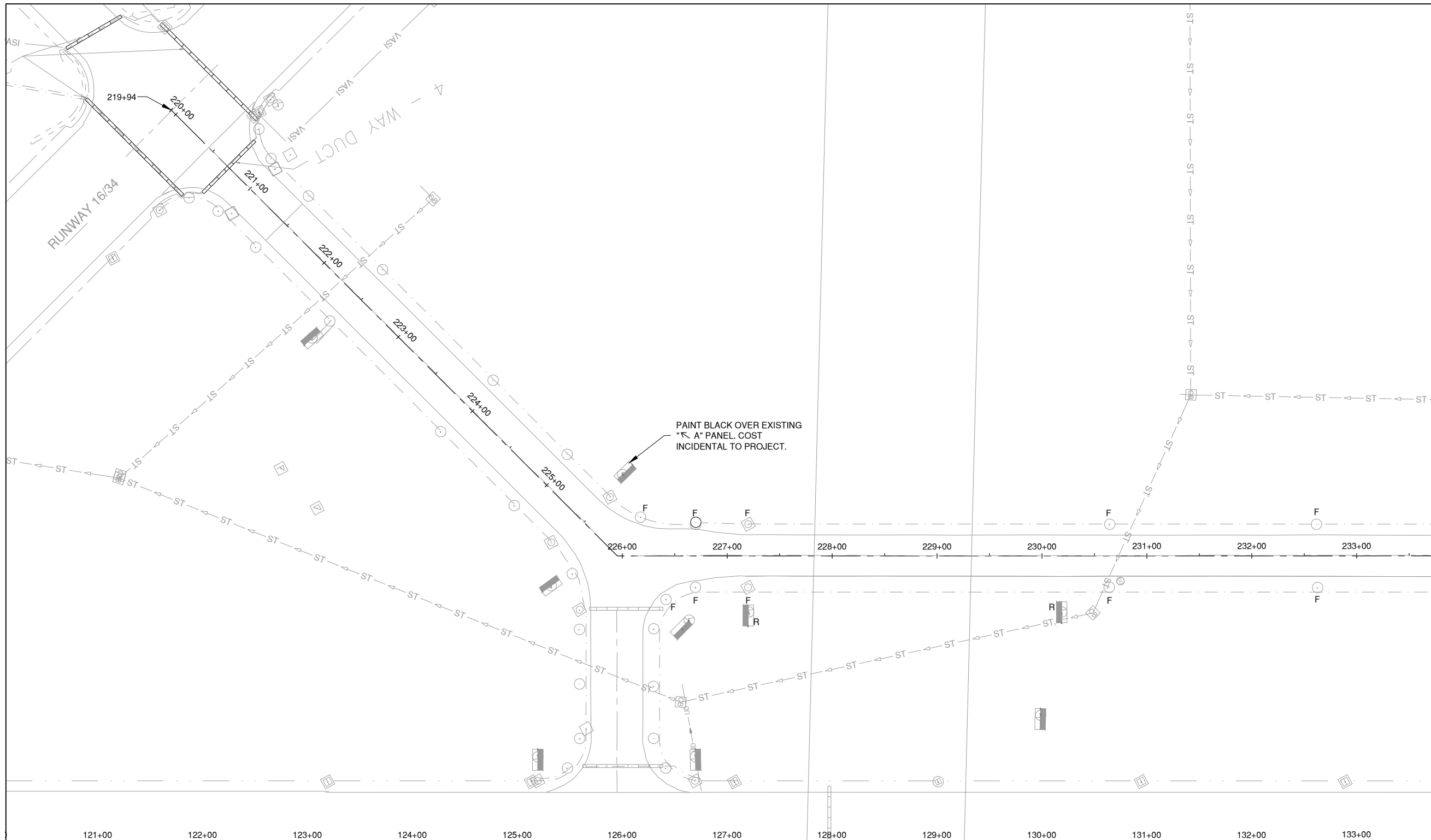


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
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		IL PROJ. NO. DNV-4742 CONTRACT: VE055
		CMT PROJECT NO: 190042-02
		CAD DWG FILE: DNV-4742-CD100.DWG
		DESIGNED BY: AJG
		DRAWN BY: CMT
		CHECKED BY: MJD
		APPROVED BY: EMH
		COPYRIGHT:

SHEET TITLE
DEMOLITION PLAN 1

CD101
SHEET 12 OF 70



MATCHLINE STA. 233+75

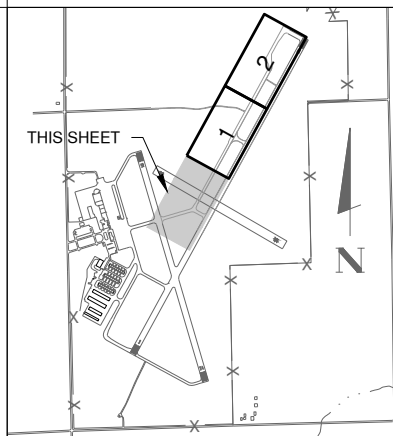
LEGEND

	EXISTING STAKE MOUNTED TAXIWAY LIGHT		EXISTING RUNWAY/THRESHOLD LIGHT		BITUMINOUS PAVEMENT MILLING: AR401.650 4" & VAR.
	EXISTING BASE MOUNTED TAXIWAY LIGHT		EXISTING RUNWAY LIGHT		BUTT JOINT CONSTRUCTION
	EXISTING TAXIWAY GUIDANCE SIGN		EXISTING CATCH BASIN		REMOVE PAVEMENT: AR401.921 FULL DEPTH
	EXISTING TAXIWAY CIRCUIT		EXISTING FENCE		REMOVE PAVEMENT: AR401.921 3"± HMA, 7"± PCC CRACKED AND SEATED
	EXISTING RUNWAY CIRCUIT		EXISTING WINDCONE		REMOVE PAVEMENT: AR401.921 4"± HMA, 6"± HMA BASE COURSE, 11"± CABC
	EXISTING STORM SEWER		EXISTING DUCT		REMOVE PAVEMENT: AR401.921 6"± HMA, 7"± CABC
	REMOVALS		EXISTING DUCT MARKER		REMOVE PAVEMENT: AR401.921 3"-5"± HMA, 7"± PCC
	REMOVE FIXTURE & KEEP CKT ACTIVE		UNCLASSIFIED EXCAVATION: 6" MINIMUM		
	EXISTING CULVERT				

NOTES

- 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.
- 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.
- 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).

KEY PLAN

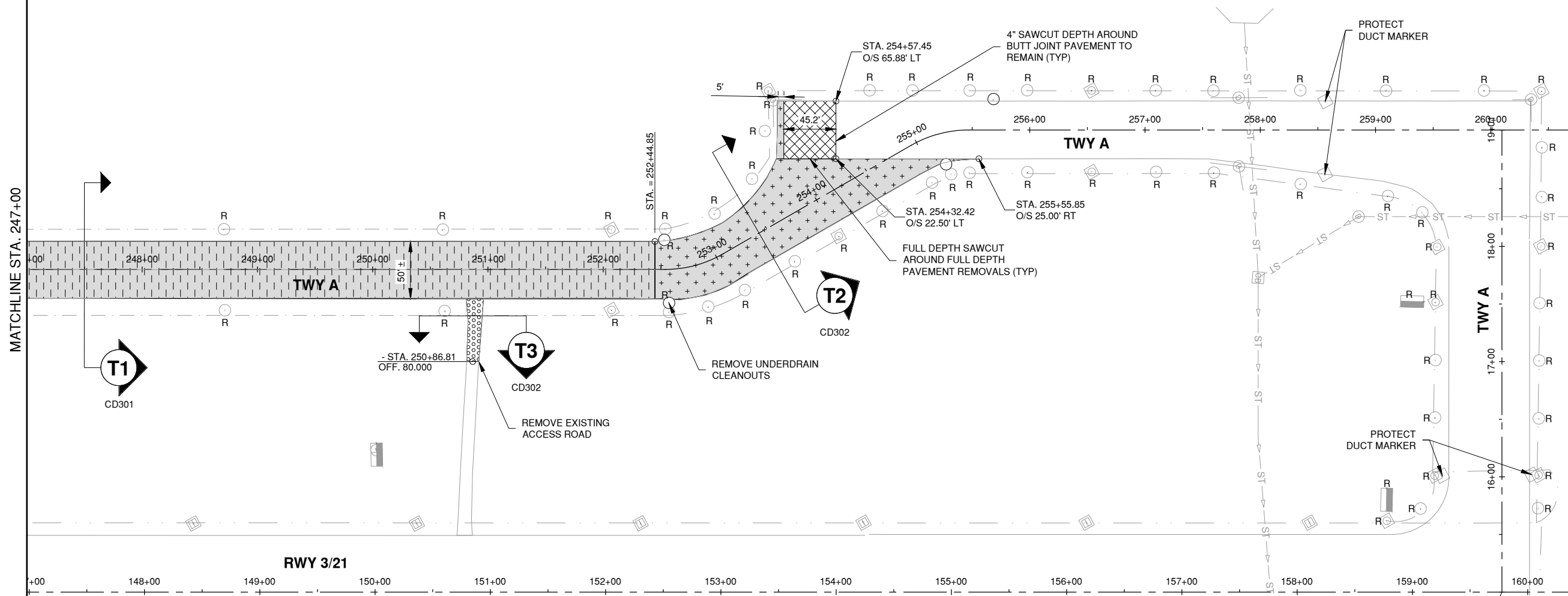
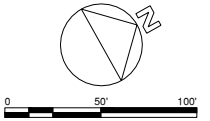


THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED 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 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.



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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

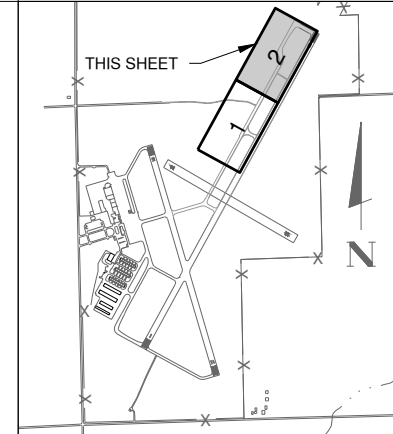
LEGEND

	EXISTING STAKE MOUNTED TAXIWAY LIGHT		EXISTING RUNWAY/THRESHOLD LIGHT		BITUMINOUS PAVEMENT MILLING: AR401.650 4" & VAR.
	EXISTING BASE MOUNTED TAXIWAY LIGHT		EXISTING RUNWAY LIGHT		BUTT JOINT CONSTRUCTION
	EXISTING TAXIWAY GUIDANCE SIGN		EXISTING CATCH BASIN		REMOVE PAVEMENT: AR401.921 FULL DEPTH
	EXISTING TAXIWAY CIRCUIT		EXISTING FENCE		REMOVE PAVEMENT: AR401.921 3"± HMA, 7"± PCC CRACKED AND SEATED
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	EXISTING STORM SEWER		EXISTING DUCT		REMOVE PAVEMENT: AR401.921 6"± HMA, 7"± CABC
	REMOVALS		EXISTING DUCT MARKER		REMOVE PAVEMENT: AR401.921 3"-5"± HMA, 7"± PCC
	REMOVE FIXTURE & KEEP CKT ACTIVE		UNCLASSIFIED EXCAVATION: 6" MINIMUM		
	EXISTING CULVERT				

NOTES

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KEY PLAN



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-CD100.DWG
		DESIGNED BY: AJG
		DRAWN BY: CMT
		CHECKED BY: MJD
		APPROVED BY: EMH
		COPYRIGHT:

SHEET TITLE
DEMOLITION PLAN 3

CD103
SHEET 14 OF 70

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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

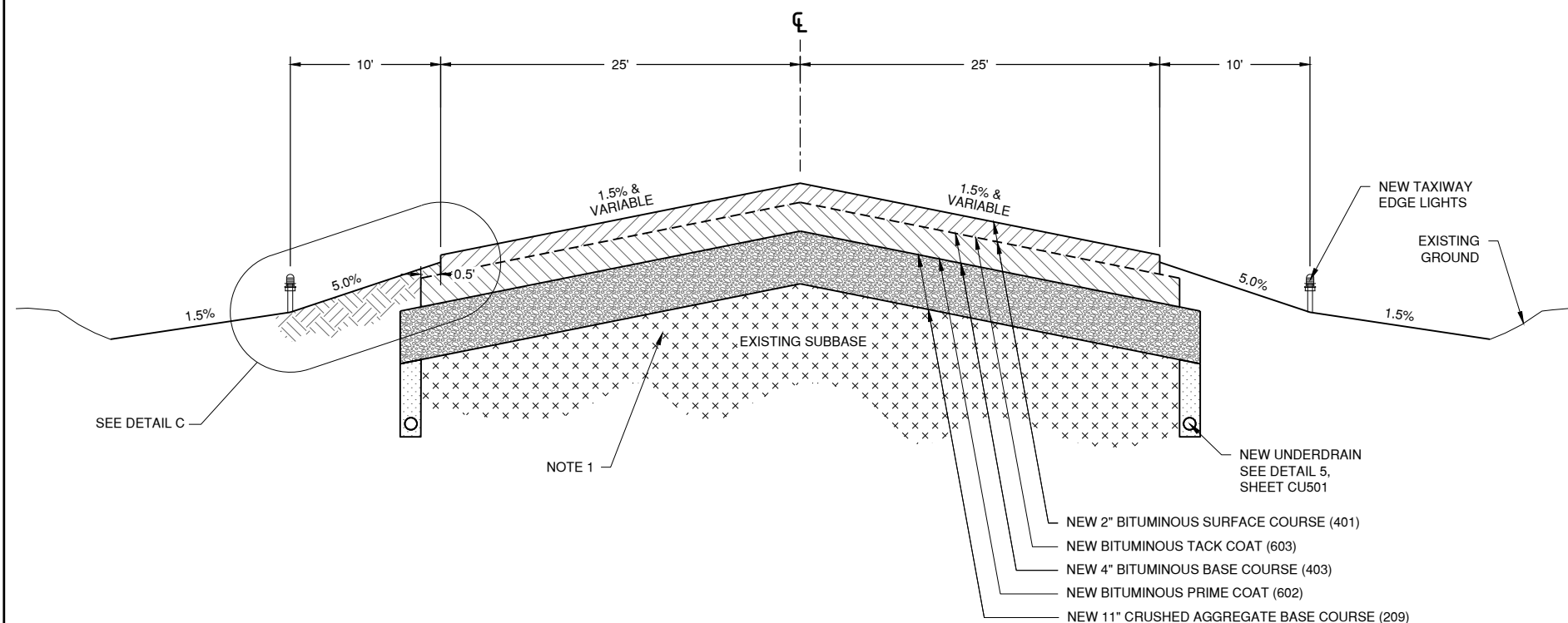


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
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		CMT PROJECT NO: 190042-02
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		DESIGNED BY: AJG
		DRAWN BY: CMT
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		APPROVED BY: EMH
		COPYRIGHT:

SHEET TITLE
NEW PAVEMENT SECTIONS 1

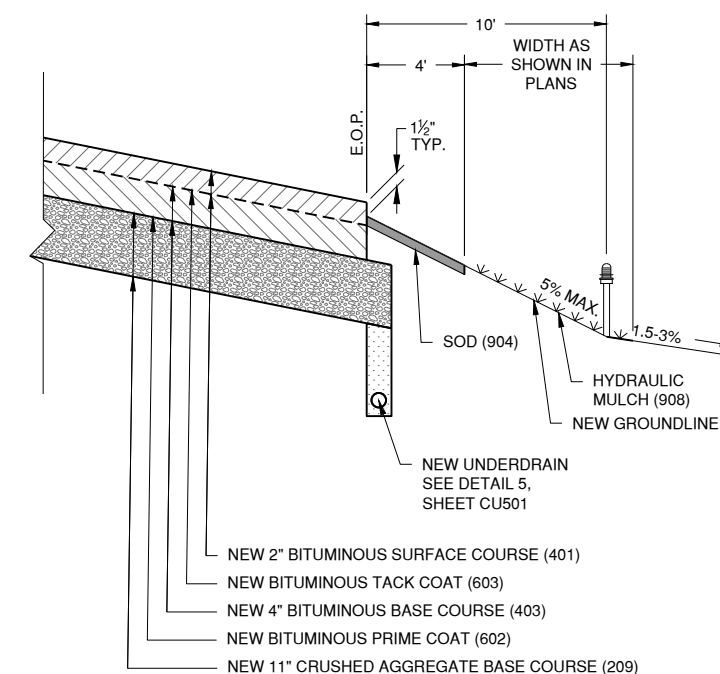
CP301
SHEET 22 OF 70



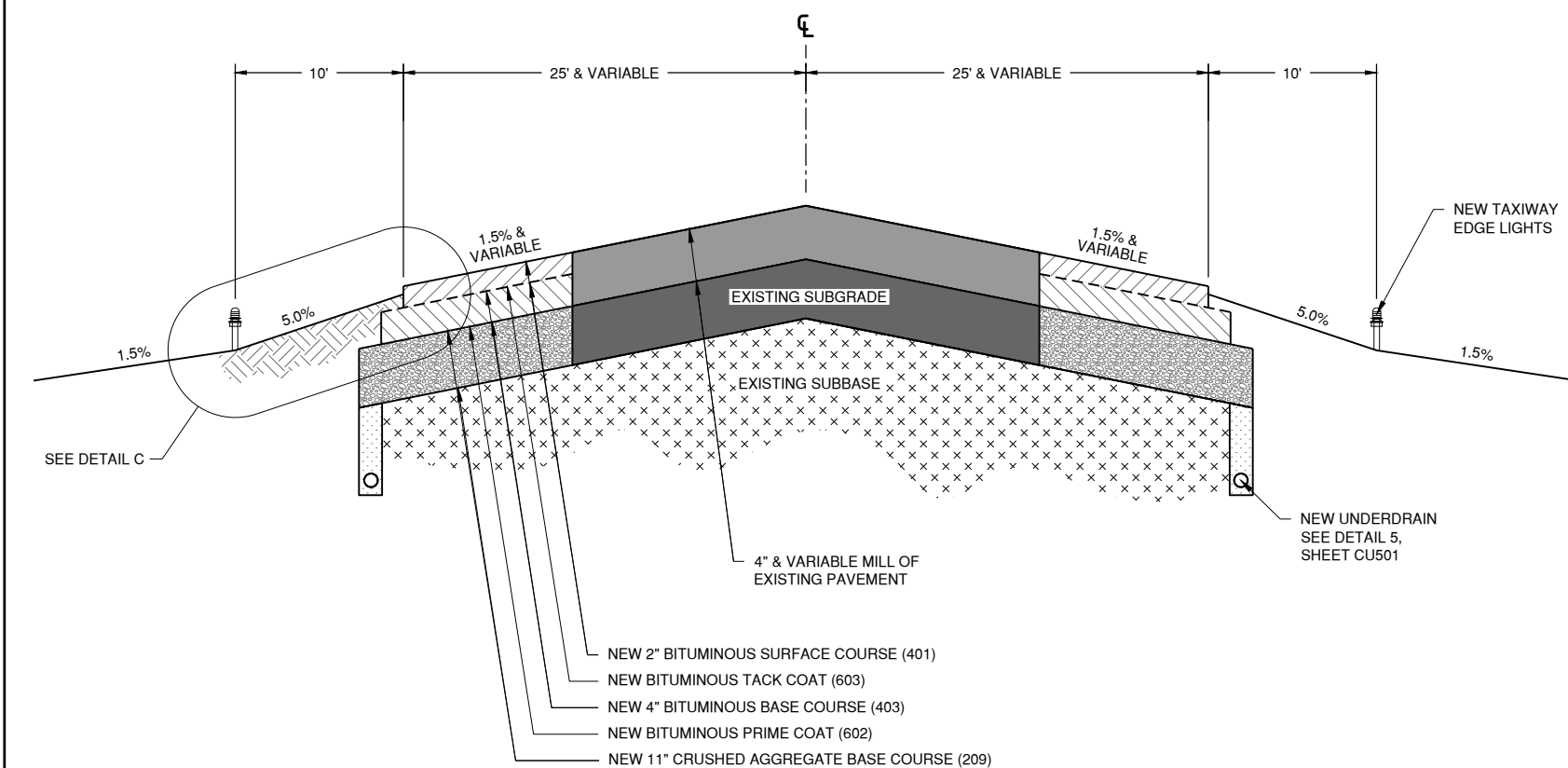
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- SEE SUBGRADE UNDERCUT AND AGGREGATE BACKFILL DETAIL SHEET CD501 FOR SUBGRADE REPAIR.

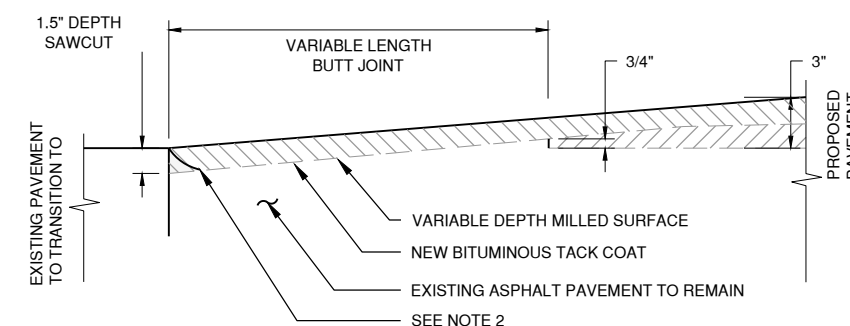
A NEW TAXIWAY SECTION
N.T.S.
CP101
CP102



C NEW SHOULDER DETAIL B
N.T.S.
CP101
CP102



B NEW TAXIWAY SECTION
N.T.S.
CP101
CP102



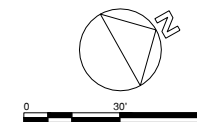
LEGEND:

- 1ST LIFT OF HMA ON TACK COAT
- 2ND LIFT OF HMA ON TACK COAT

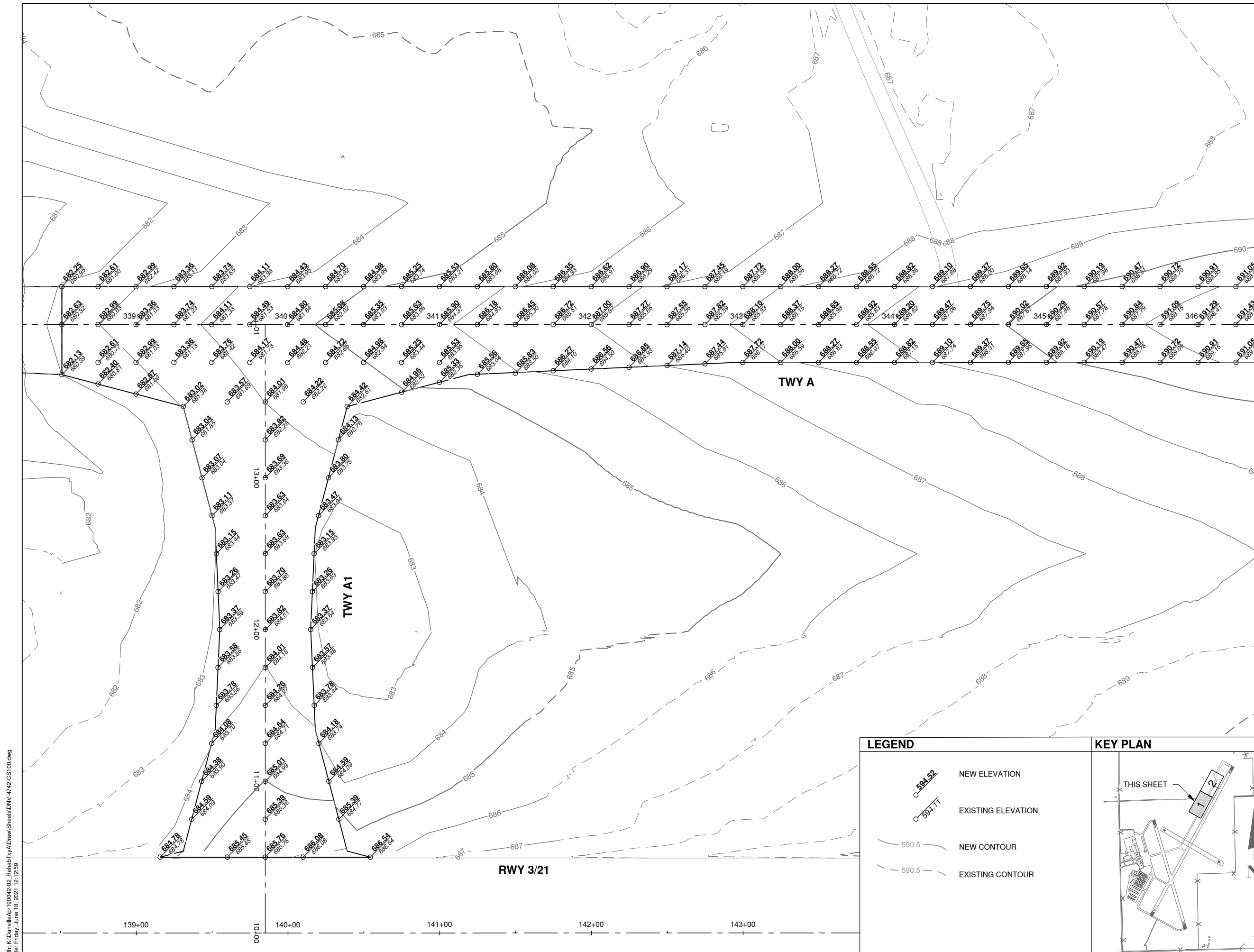
NOTES:

- 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.
- 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
CP102



MATCHLINE STA. 346+42



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

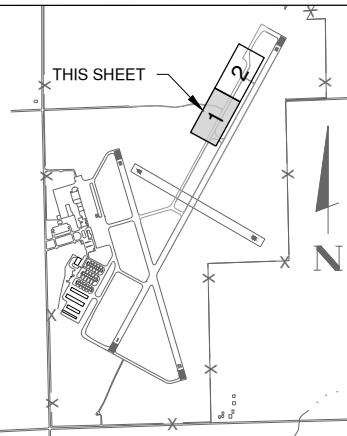
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IL PROJ. NO. DNV-4742	CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CS100.DWG	DESIGNED BY: AJG
DRAWN BY: CMT	CHECKED BY: MJD
APPROVED BY: EMH	COPYRIGHT:

SHEET TITLE
**PAVING STAKING
PLAN 1**

LEGEND

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

KEY PLAN



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MATCHLINE STA. 346+42



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
FED PROJ. NO. 3-17-SBG-156/162		
IL. PROJ. NO. DNV-4742		CONTRACT: VE055
CMT PROJECT NO: 190042-02		
CAD DWG FILE: DNV-4742-CS100.DWG		
DESIGNED BY: AJG		
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APPROVED BY: EMH		
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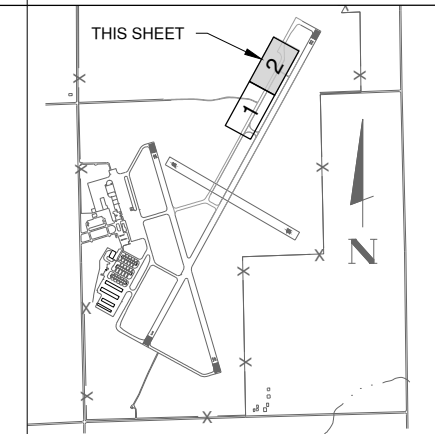
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**PAVING STAKING
PLAN 2**

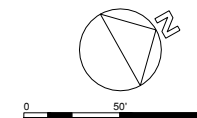
CS102
SHEET 27 OF 70

LEGEND

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

KEY PLAN





JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

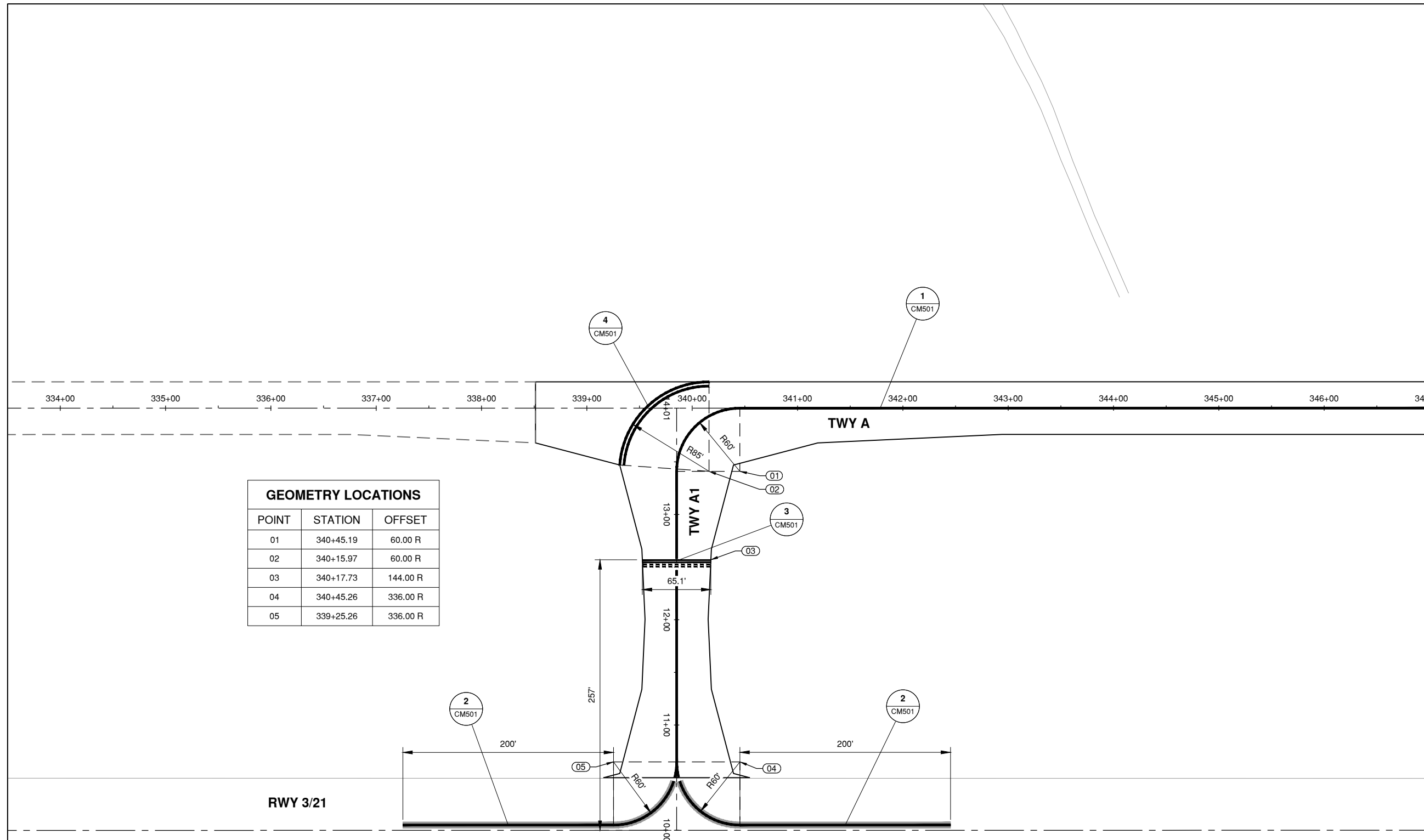


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
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		IL PROJ. NO. DNV-4742 CONTRACT: VE055
		CMT PROJECT NO: 190042-02
		CAD DWG FILE: DNV-4742-CM100.DWG
		DESIGNED BY: AJG
		DRAWN BY: CMT
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		APPROVED BY: EMH
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SHEET TITLE
**PAVEMENT MARKING
PLAN 1**

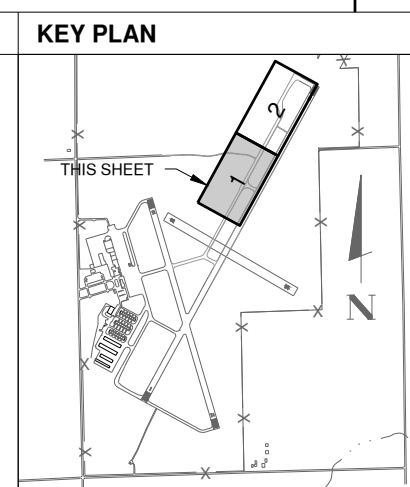
CM101
SHEET 28 OF 70



MATCHLINE STA. 347+00

LEGEND	NOTES
	PROPOSED TAXIWAY CENTERLINE MARKING (YELLOW W/ BLACK BORDER)
	PROPOSED HOLDING POSITION MARKING (YELLOW W/ BLACK BORDER)
	PROPOSED TAXIWAY EDGE MARKING (YELLOW W/ BLACK BORDER)
	REMOVE EXISTING MARKING

NOTES

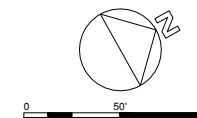


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License No. 184-000613

CONSULTANTS



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

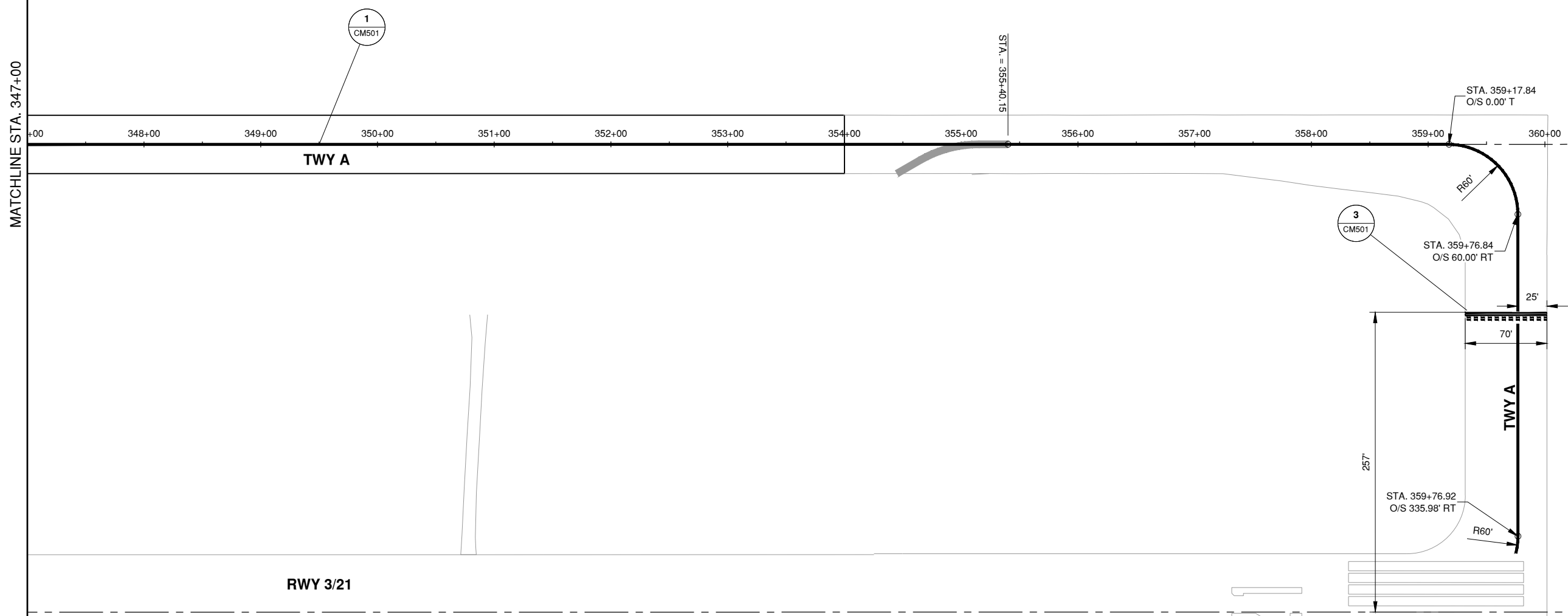
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IL PROJ. NO. DNV-4742 CONTRACT: VE055

CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CM100.DWG
DESIGNED BY: AJG
DRAWN BY: CMT
CHECKED BY: MJD
APPROVED BY: EMH
COPYRIGHT:

SHEET TITLE
**PAVEMENT MARKING
PLAN 2**

CM102
SHEET 29 OF 70

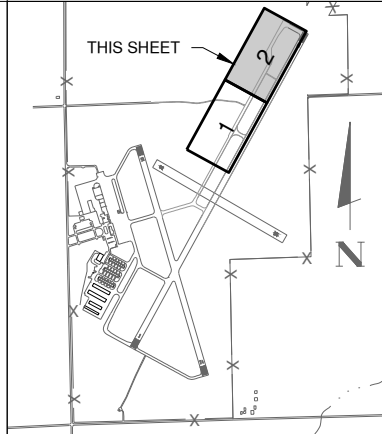


LEGEND

- PROPOSED TAXIWAY CENTERLINE MARKING (YELLOW W/ BLACK BORDER)
- PROPOSED HOLDING POSITION MARKING (YELLOW W/ BLACK BORDER)
- PROPOSED TAXIWAY EDGE MARKING (YELLOW W/ BLACK BORDER)
- REMOVE EXISTING MARKING

NOTES

KEY PLAN



Path: K:\Danville\Aq\190042-02_RehabTaxiway\Draw\Sheets\DNV-4742-CM100.dwg
Date: Friday, June 18, 2021 12:13:35



License No. 184-000613

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JUNE 18, 2021

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VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

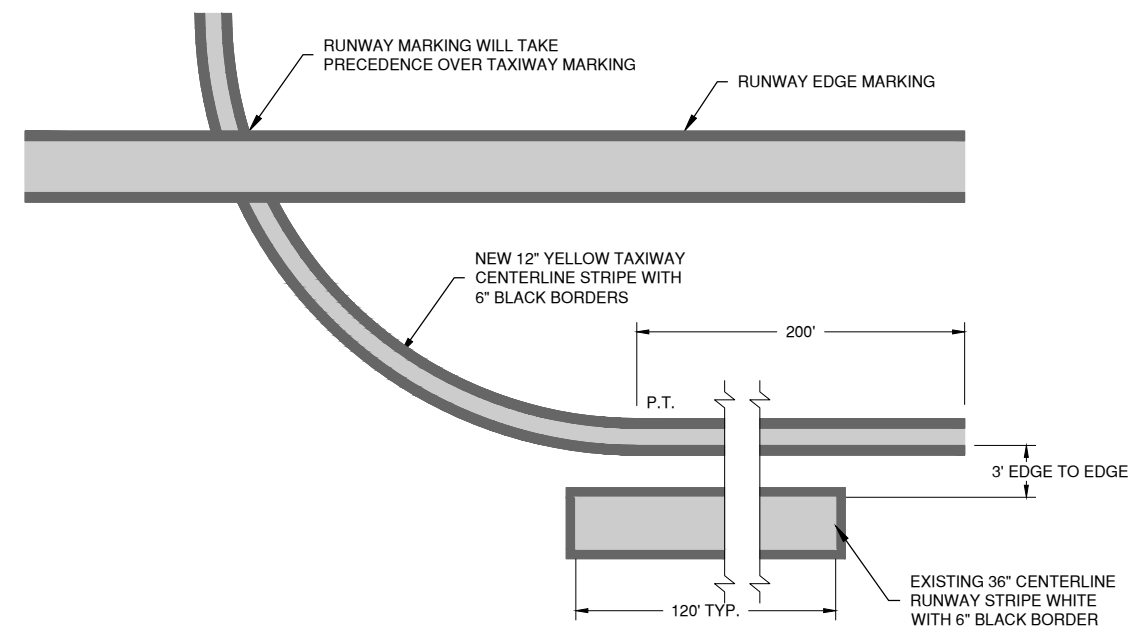
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IL. PROJ. NO. DNV-4742		CONTRACT: VE055
CMT PROJECT NO: 190042-02		
CAD DWG FILE: DNV-4742-CM500.DWG		
DESIGNED BY: AJG		
DRAWN BY: CMT		
CHECKED BY: MJD		
APPROVED BY: EMH		
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SHEET TITLE

**PAVEMENT MARKING
DETAIL 1**

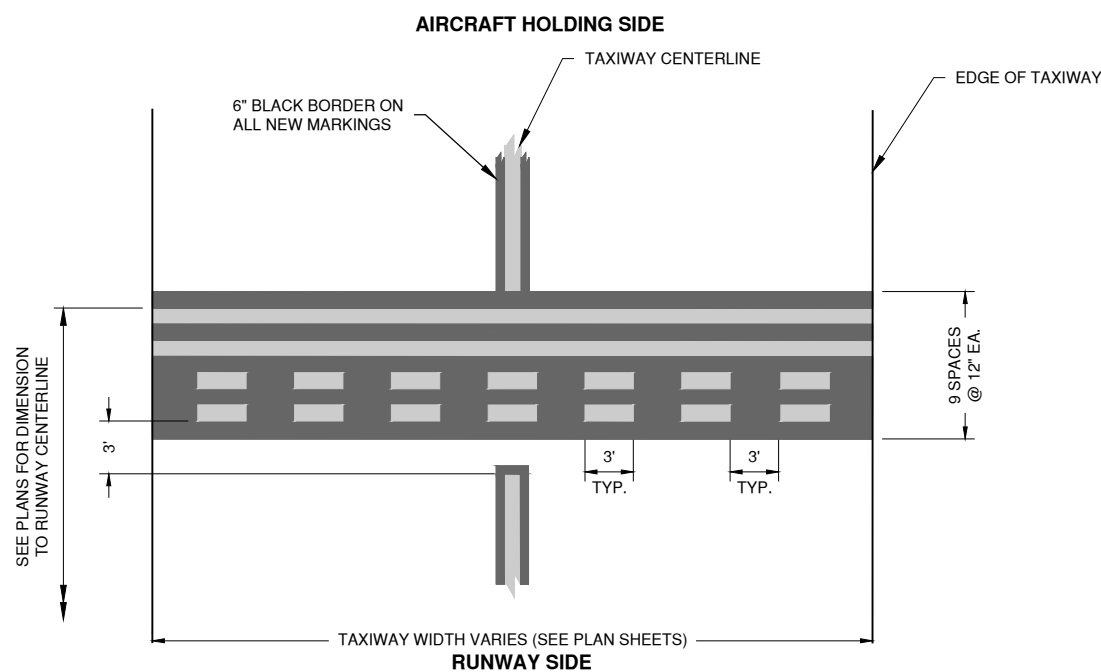


1 TAXIWAY CENTERLINE DETAIL
N.T.S.

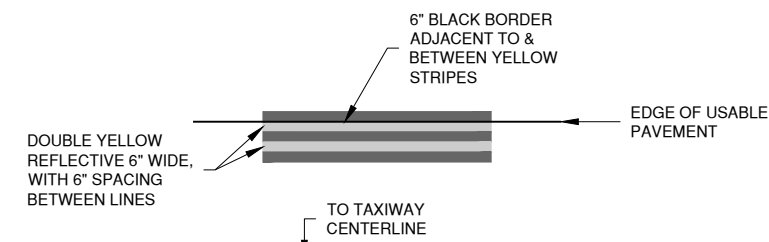


2 TAXIWAY CENTERLINE MARKING - TRANSITION TO RUNWAY
N.T.S.

- MARKING NOTES**
- ALL NEW AIRFIELD PAVEMENT MARKINGS SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
 - BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.



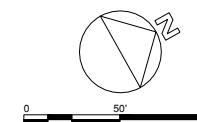
3 RUNWAY HOLDING POSITION
N.T.S.



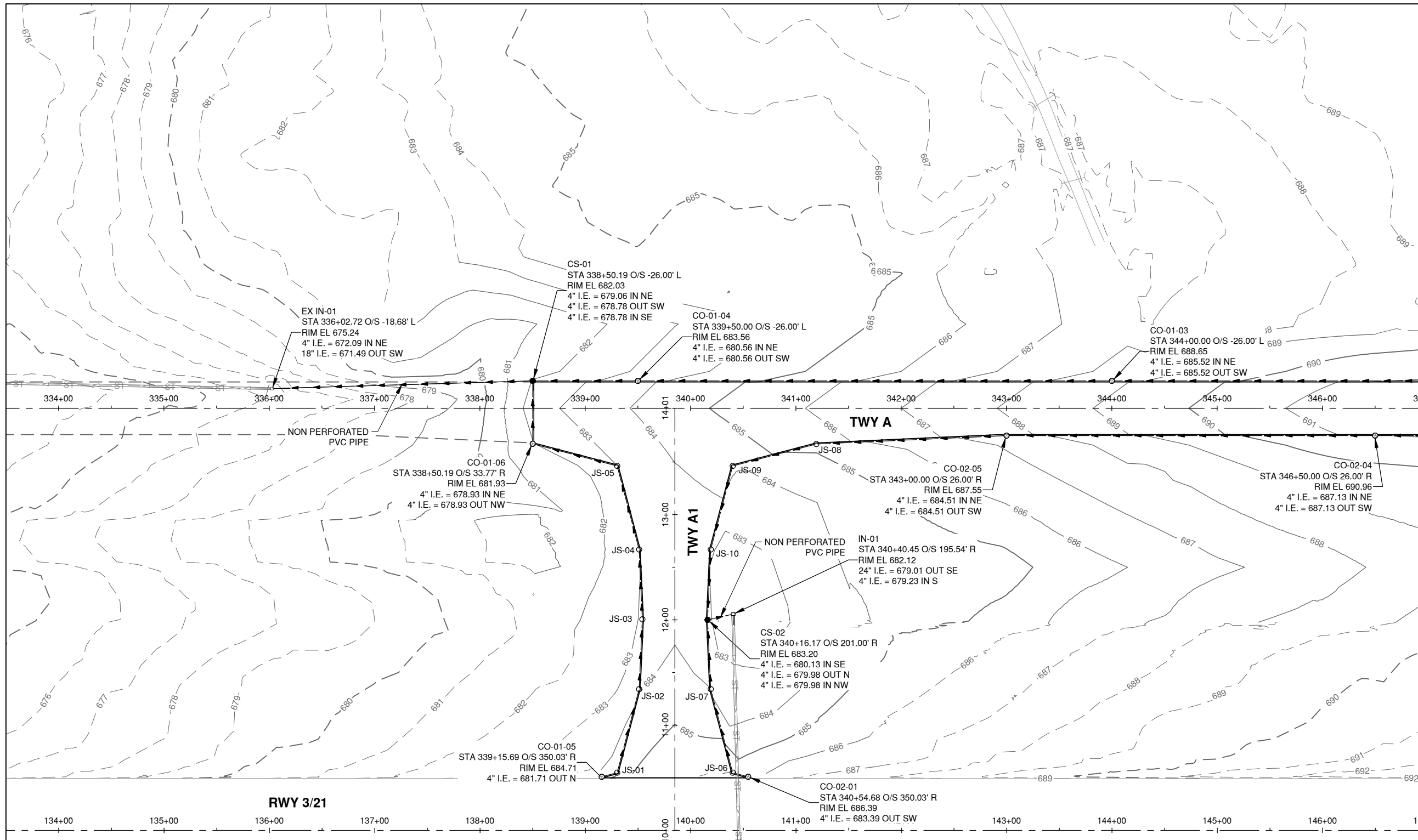
4 TAXIWAY EDGE MARKING
N.T.S.

- MARKING NOTES**
- ALL NEW AIRFIELD PAVEMENT MARKINGS SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
 - BLACK BORDER DOES NOT RECEIVE REFLECTIVE BEADS.

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VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

04/26/21 SUPPLEMENTAL - FOR CONSTRUCTION

MARK	DATE	DESCRIPTION

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IL PROJ. NO. DNV-4742	CONTRACT: VE055
CMT PROJECT NO: 190042-02	
CAD DWG FILE: DNV-4742-CU100.DWG	
DESIGNED BY: AJG	
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SHEET TITLE
**GRADING &
DRAINAGE PLAN 1**

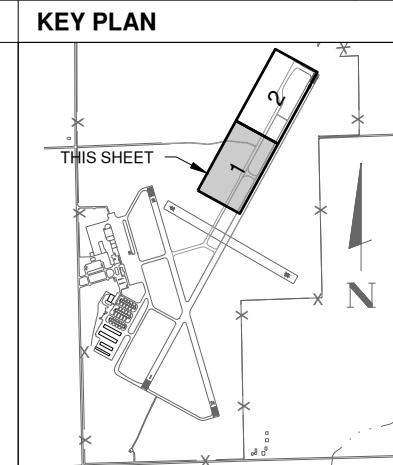
CU101
SHEET 31 OF 70

LEGEND

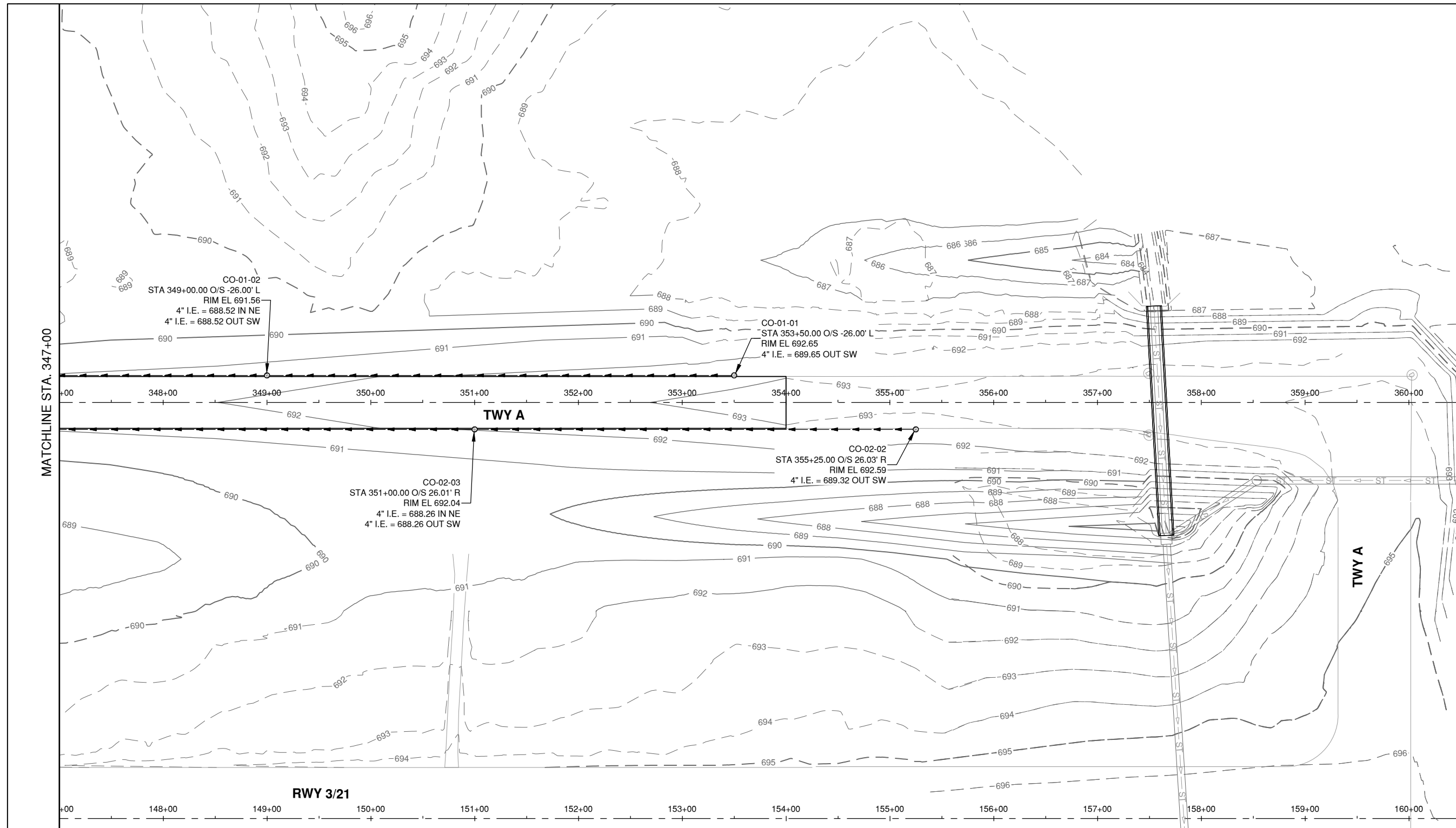
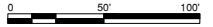
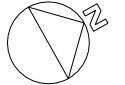
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	NEW STORM SEWER PIPE
	EXISTING STORM SEWER PIPE
	NEW INLET - TYPE A
	EXISTING CATCH BASIN
	NEW CLEAN OUT TYPE 1 OR TYPE 2 (CO)
	NEW COLLECTION STRUCTURE (CS)
	NEW PIPE JUNCTION (JS)

NOTES

- CONTRACTOR SHALL CONNECT PROPOSED UNDERDRAIN OUTLETS TO INLETS IN-01 AND EX. IN-01 PER THE DETAILS AS ITEM "UNDERDRAIN CONNECTION".



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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
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		IL PROJ. NO. DNV-4742 CONTRACT: VE055
		CMT PROJECT NO: 190042-02
		CAD DWG FILE: DNV-4742-CU100.DWG
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		COPYRIGHT:

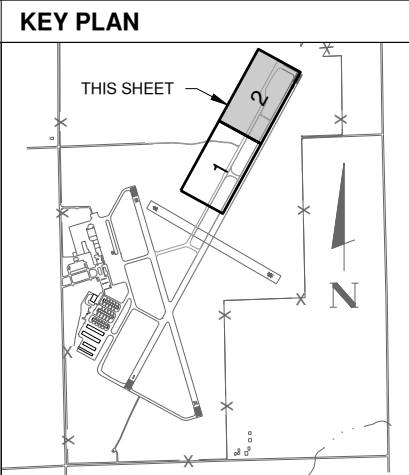
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**GRADING &
DRAINAGE PLAN 2**

CU102
SHEET 32 OF 70

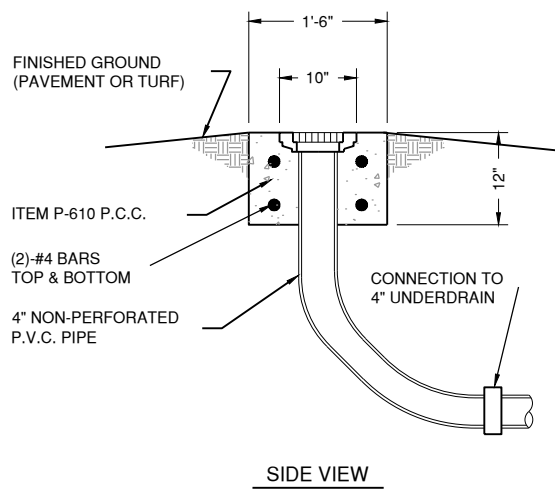
LEGEND

	NEW UNDERDRAIN PIPE, PERFORATED UNLESS NOTED
	NEW STORM SEWER PIPE
	EXISTING STORM SEWER PIPE
	NEW INLET - TYPE A
	EXISTING CATCH BASIN
	NEW CLEAN OUT TYPE 1 OR TYPE 2 (CO)
	NEW COLLECTION STRUCTURE (CS)
	NEW PIPE JUNCTION (JS)

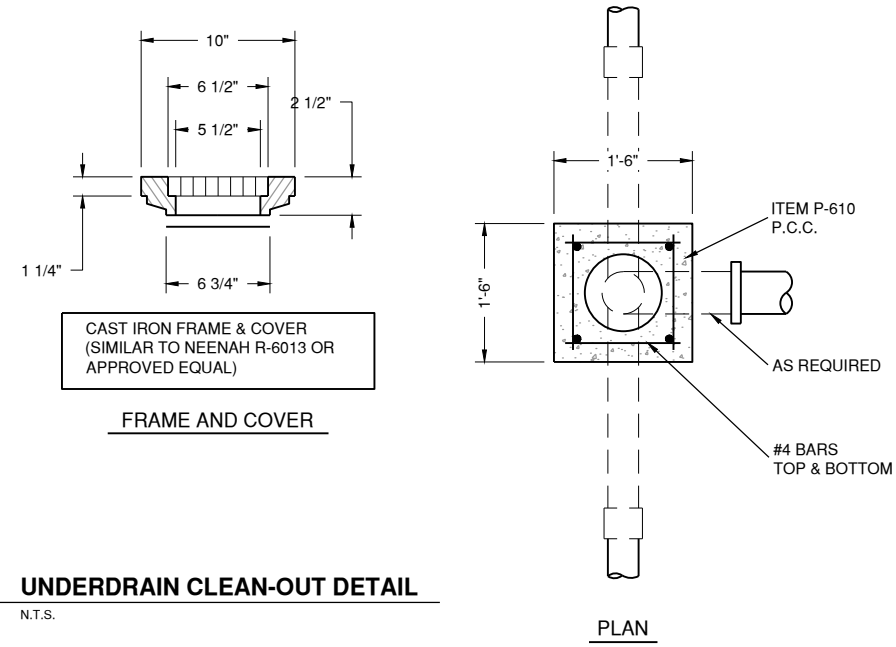
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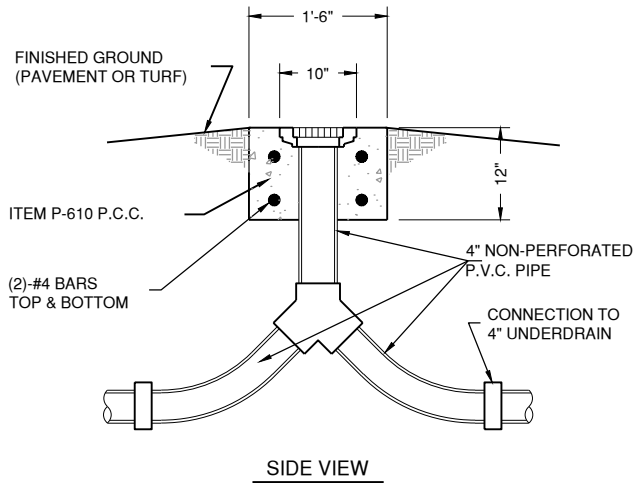
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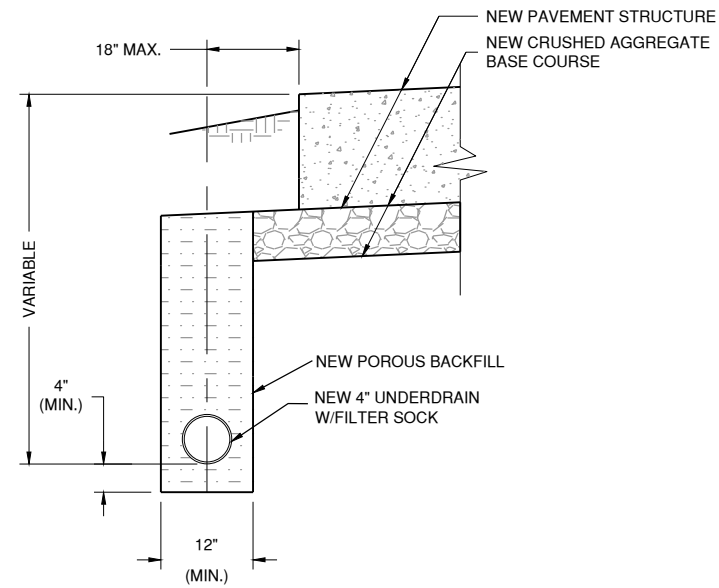
1 UNDERDRAIN CLEAN-OUT DETAIL - TYPE 1
N.T.S.



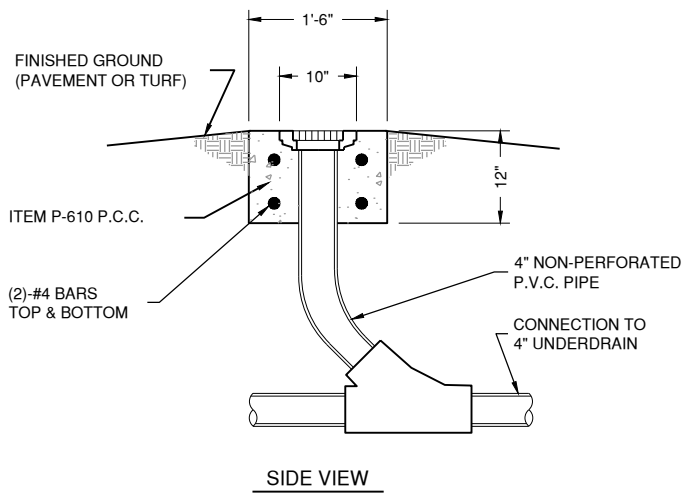
4 UNDERDRAIN CLEAN-OUT DETAIL
N.T.S.



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



5 UNDERDRAIN ALONG PAVEMENT EDGE
N.T.S.



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

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.

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

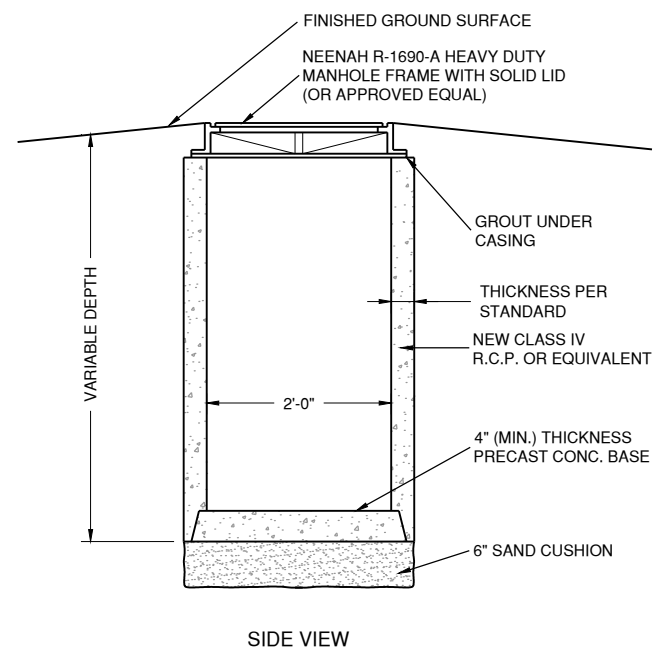
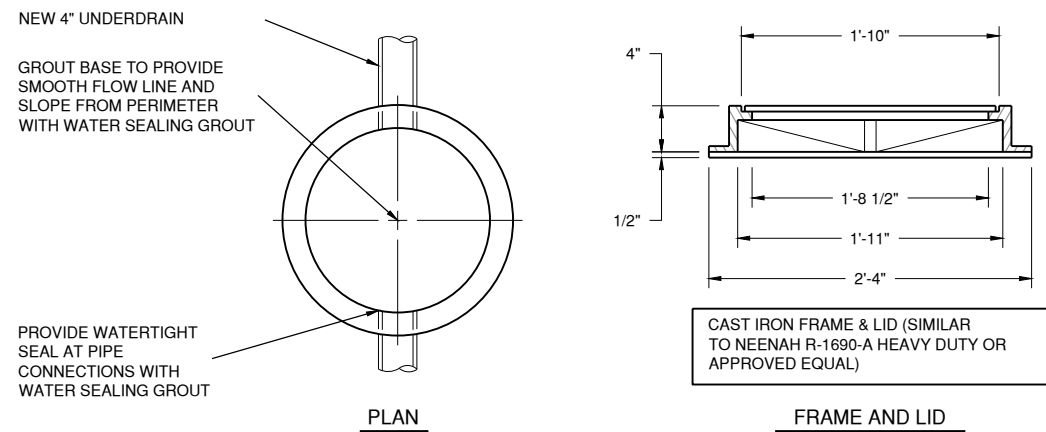
OWNER



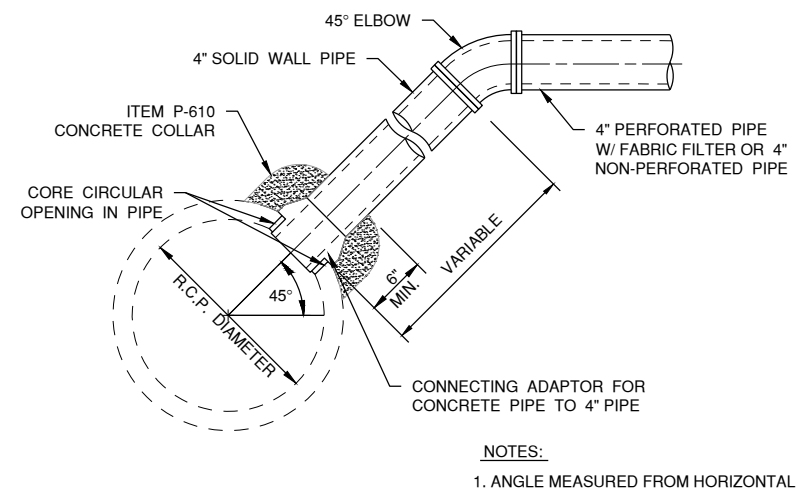
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CMT PROJECT NO: 190042-02		
CAD DWG FILE: DNV-4742-CU500.DWG		
DESIGNED BY: AJG		
DRAWN BY: CMT		
CHECKED BY: MJD		
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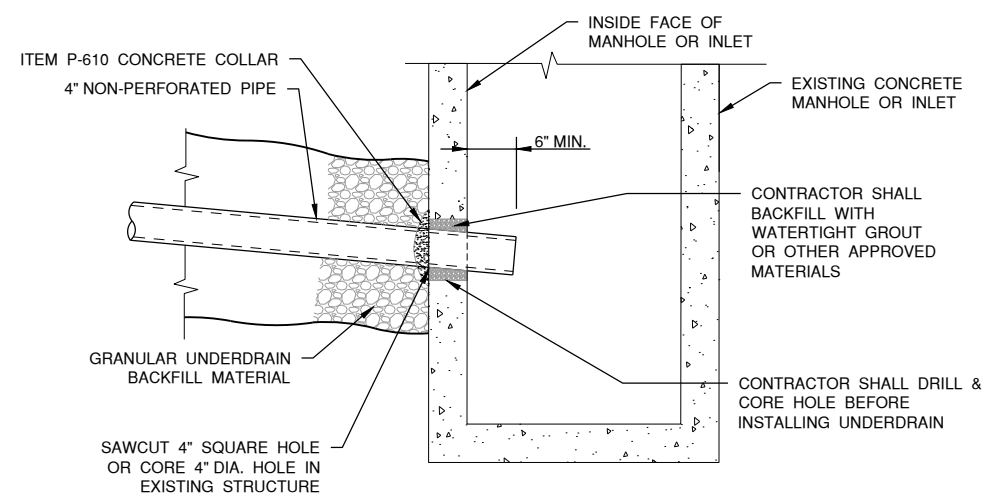
SHEET TITLE
UNDERDRAIN DETAILS 1



1 UNDERDRAIN COLLECTION STRUCTURE DETAILS
N.T.S.



2 UNDERDRAIN DIRECT TOP CONNECTION DETAIL
N.T.S.



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

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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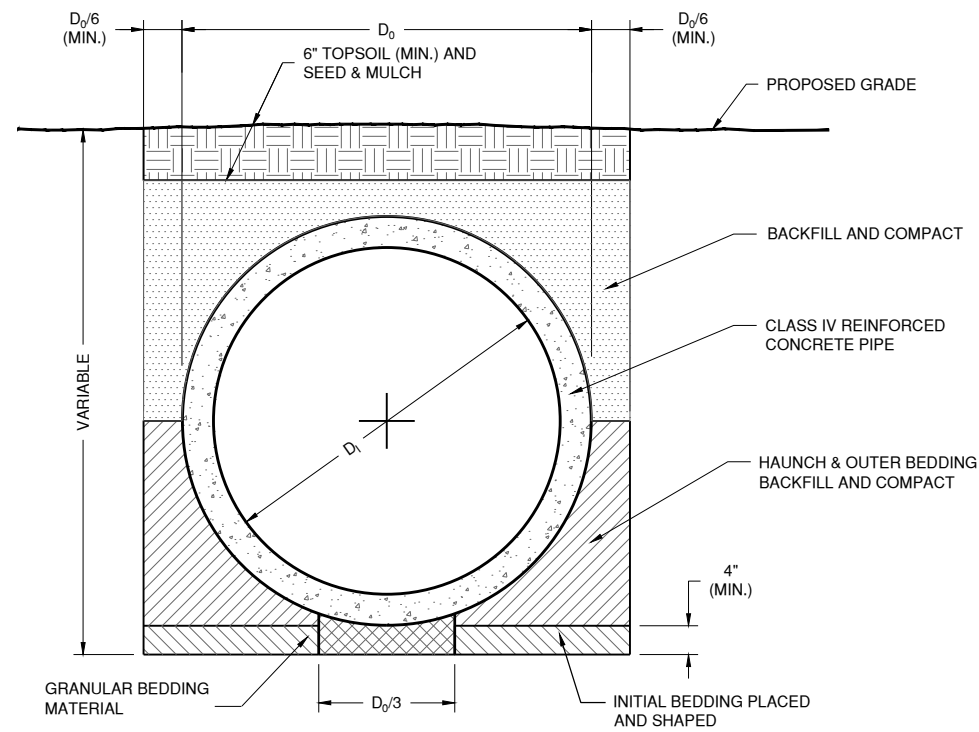


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

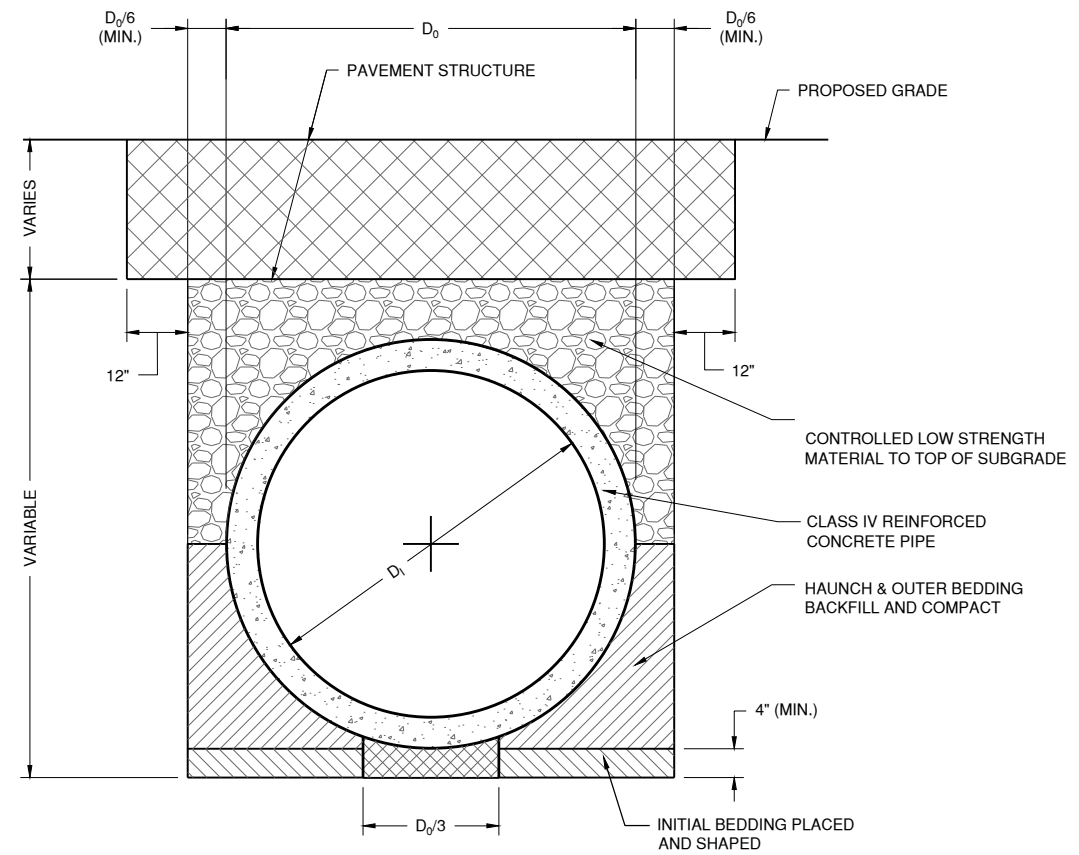
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UNDERDRAIN DETAILS 2

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Date: Friday, June 18, 2021 12:15:11



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



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

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

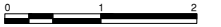
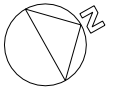
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AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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IL PROJ. NO. DNV-4742 CONTRACT: VE055		
CMT PROJECT NO: 190042-02		
CAD DWG FILE: DNV-4742-CU500.DWG		
DESIGNED BY: AJG		
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SHEET TITLE
DRAINAGE DETAILS 1



JUNE 18, 2021

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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

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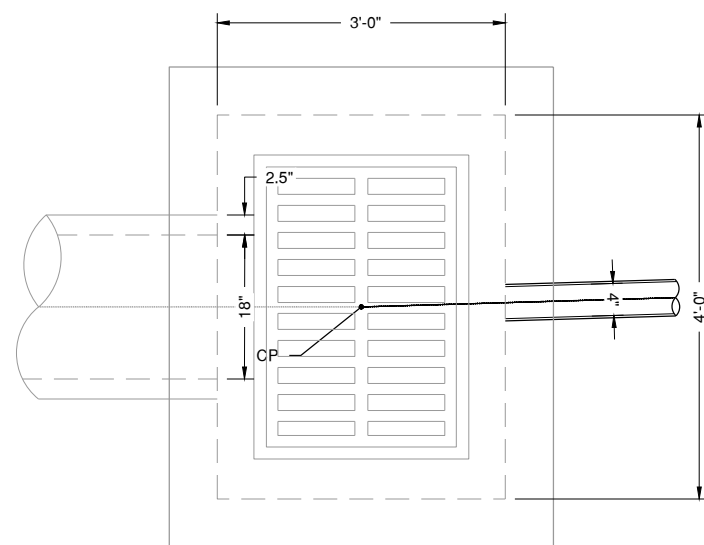
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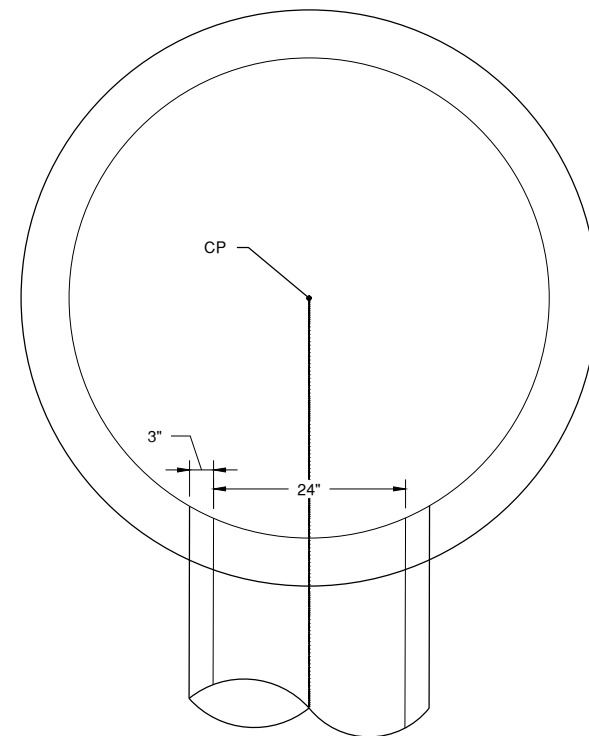
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SHEET TITLE

DRAINAGE STRUCTURE DETAIL 1



1 EXISTING INLET IN-01
N.T.S.
CU101



2 INLET IN-04 - TYPE A
N.T.S.
CU101

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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 AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
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IL PROJ. NO. DNV-4742 CONTRACT: VE055

CMT PROJECT NO: 190042-02

CAD DWG FILE: DNV-4742-CU510.DWG

DESIGNED BY: AJG

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SHEET TITLE

**DRAINAGE
 STRUCTURE DETAIL 2**

 SHEET **37** OF **70**
CU512
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)

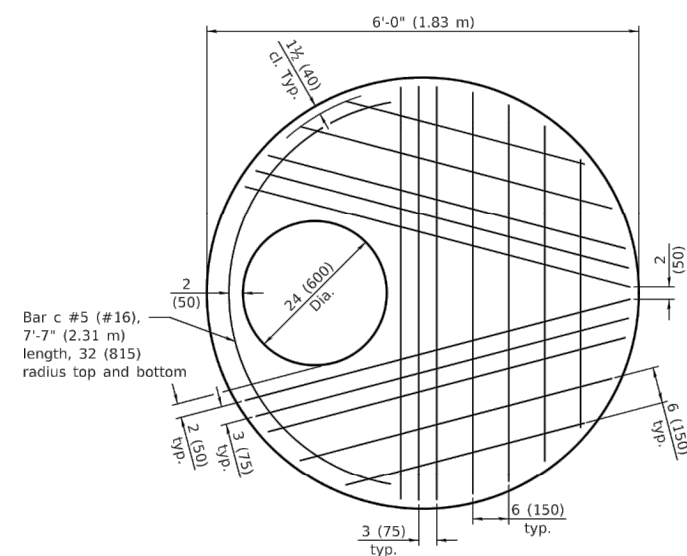
** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

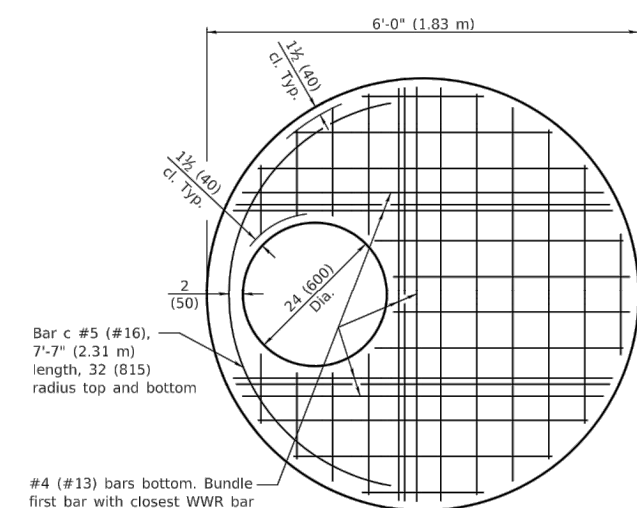
Location	Orientation	WWR or Rebar	
		A _s (min.)	Spacing (max.)
Riser	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

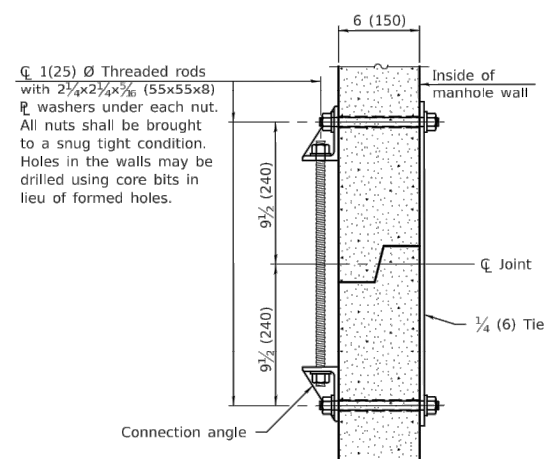
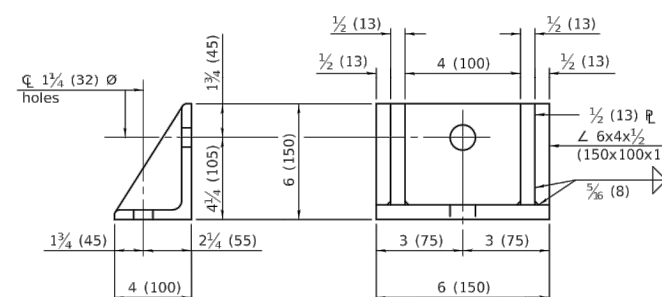
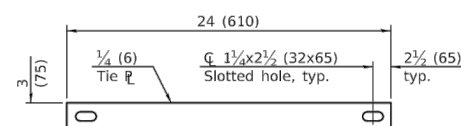
Location	Total Height	WWR or Rebar (each direction)	
		A _s (min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	8 (200)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)


PLAN - FLAT SLAB TOP

(Showing layout of bottom reinforcement bars and c bars)


PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)


JOINT SPLICE

CONNECTION ANGLE

TIE PLATE

Illinois Department of Transportation

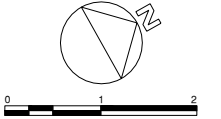
PASSED *[Signature]* March 1, 2019
 ENGINEER OF POLICY AND PROCEDURES

APPROVED *[Signature]* March 1, 2019
 ENGINEER OF DESIGN AND ENVIRONMENT

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

(Sheet 2 of 2)

IDOT STANDARD 602402-02



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



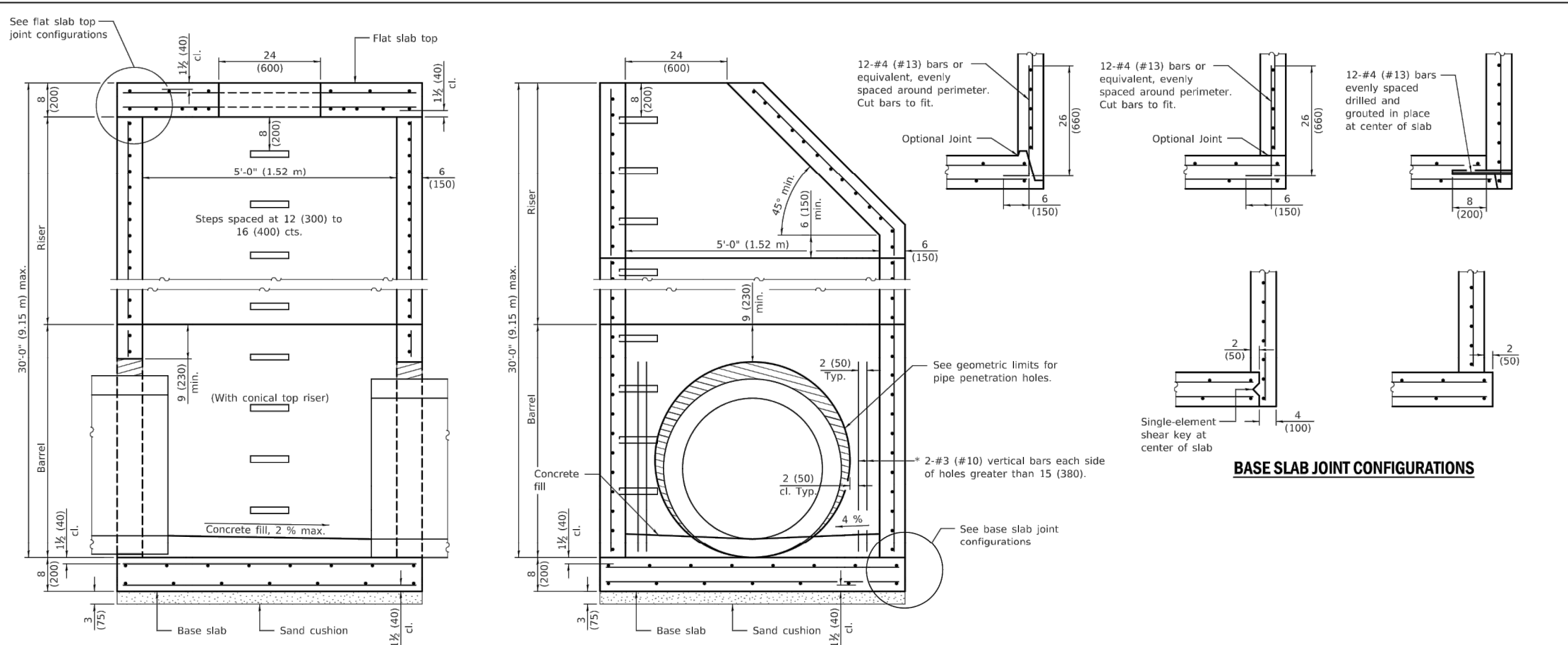
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AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CU510.DWG
DESIGNED BY: AJG
DRAWN BY: CMT
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SHEET TITLE
**DRAINAGE
STRUCTURE DETAIL 3**

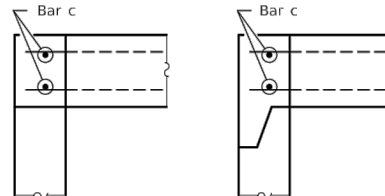
CU513
SHEET 38 OF 70



SECTION PARALLEL TO PIPE
(Without conical top riser)

SECTION PERPENDICULAR TO PIPE
(With conical top riser)

BASE SLAB JOINT CONFIGURATIONS

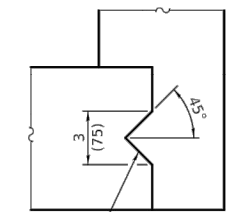


FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

* 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.

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.



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.

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

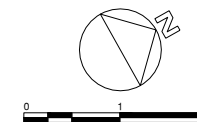
Illinois Department of Transportation

PASSED *[Signature]* March 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED *[Signature]* March 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

81-1-T GEP/SEI

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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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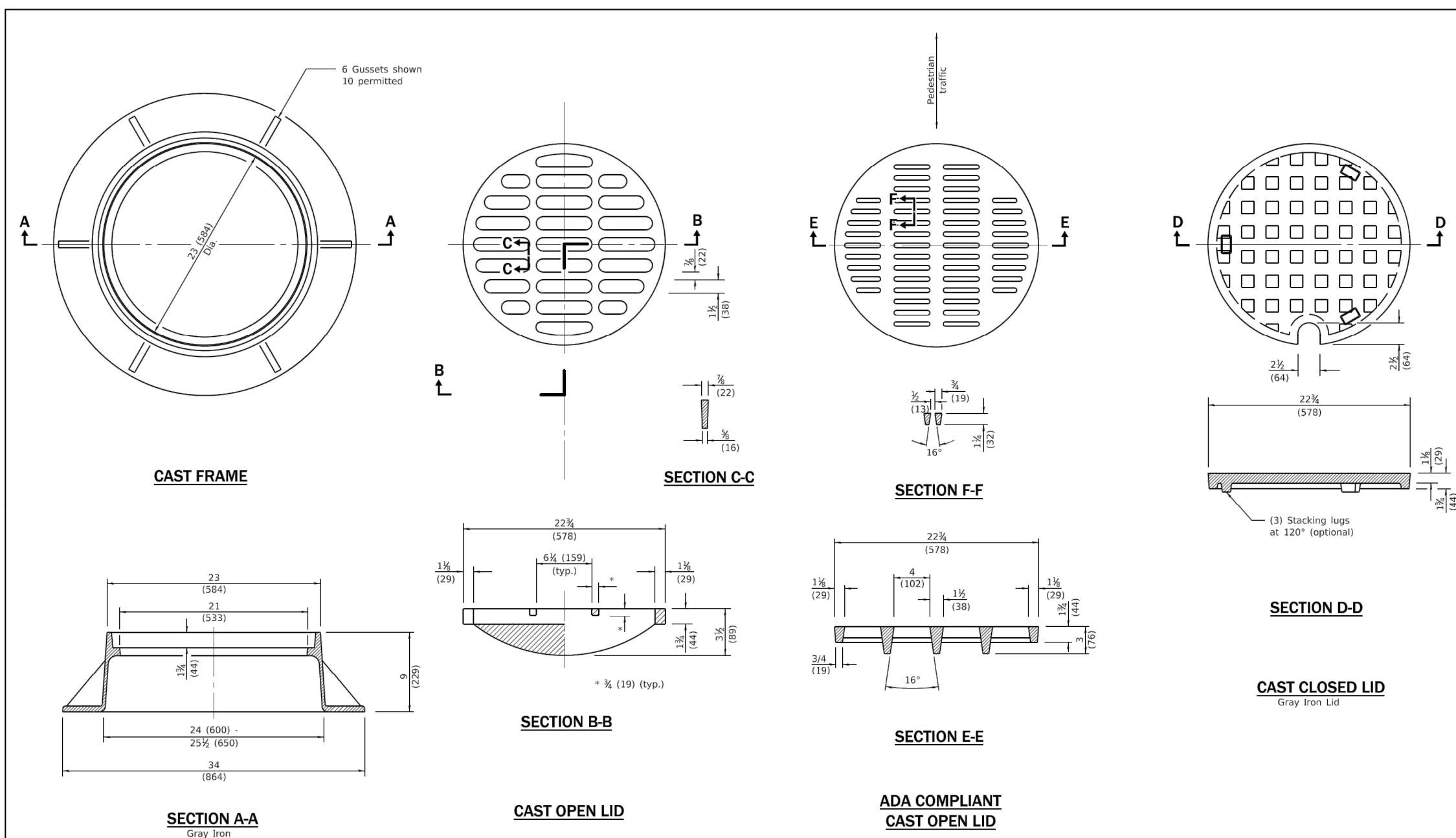
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AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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IL PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CU510.DWG
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SHEET TITLE
**DRAINAGE
STRUCTURE DETAIL 4**

CD514
SHEET 39 OF 70



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

DATE	REVISIONS	FRAME AND LIDS TYPE 1
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.	
1-1-09	Switched units to English (metric).	
		IDOT STANDARD 604001-04

Illinois Department of Transportation

PASSED January 1, 2015
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2015
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

DESIGNED
DRAWN
CHECKED
APPROVED



License No. 184-000613

CONSULTANTS

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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DANVILLE, ILLINOIS

MARK | DATE | DESCRIPTION

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IL PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CU600.DWG
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SHEET TITLE
DRAINAGE PIPE AND STRUCTURE SCHEDULES

CU601
SHEET 40 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 IN = 689.65 01-02 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+54.82 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+34.15 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+00.50 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+66.85 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+30.37 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+54.82 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+40.00 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+66.85 OFFSET 33.99 R

**STRUCTURE TABLE
STORM SEWER**

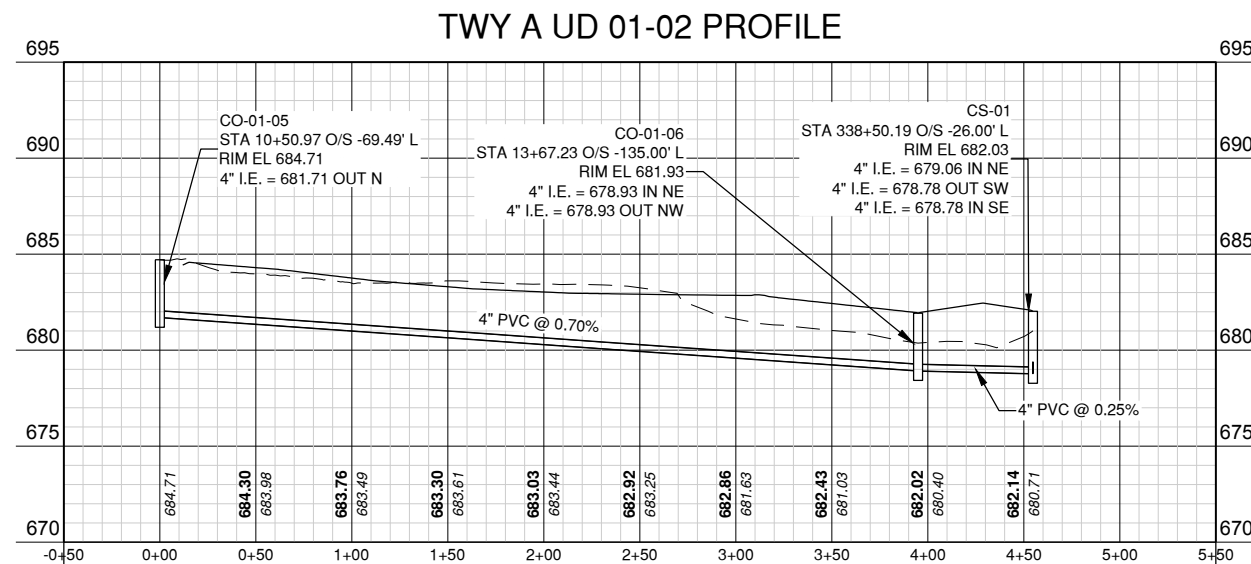
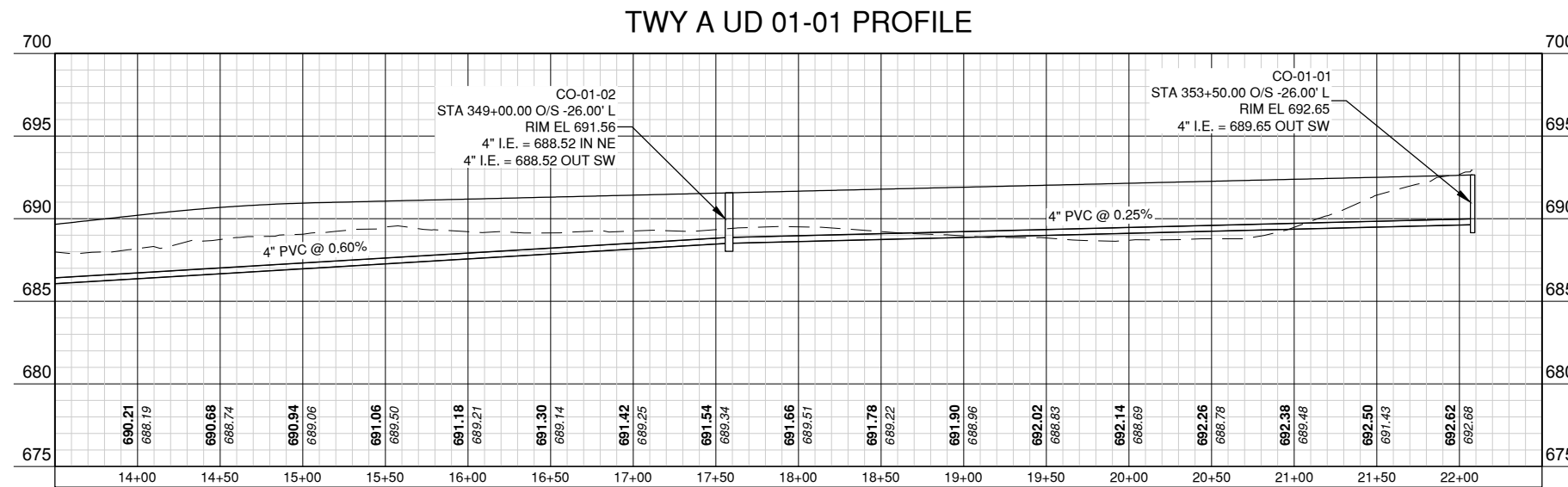
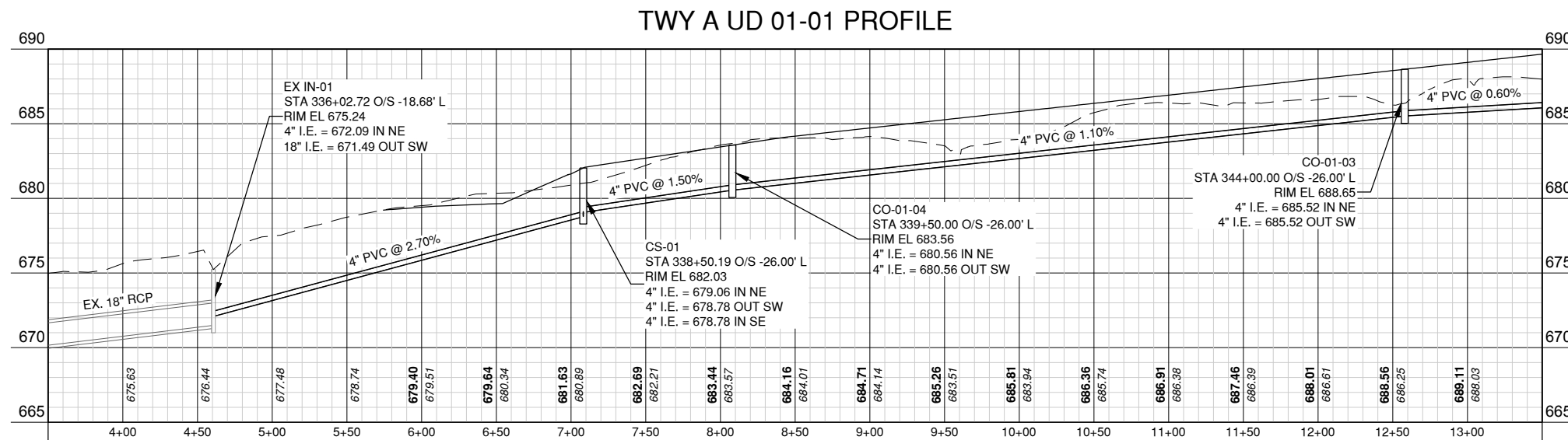
STRUCTURE NAME AND TYPE	STRUCTURE DETAILS	HORIZONTAL CONTROL
IN-01	RIM = 682.12 SUMP = 679.01 02-04-NP INV IN = 679.23 D1 INV OUT = 679.01	TWY A STA 340+40.45 OFFSET 195.54 R

**PIPE SCHEDULE
STORM SEWER**

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	INVERT	INVERT	LENGTH (FT)	SLOPE	TYPE
D1	IN-01	EX D1	679.01	678.95	10	0.50%	CONCRETE PIPE - 24"

**PIPE SCHEDULE
STORM UNDERDRAIN**

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



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		
DRAWN BY: CMT		
CHECKED BY: MJD		
APPROVED BY: EMH		
COPYRIGHT:		

SHEET TITLE

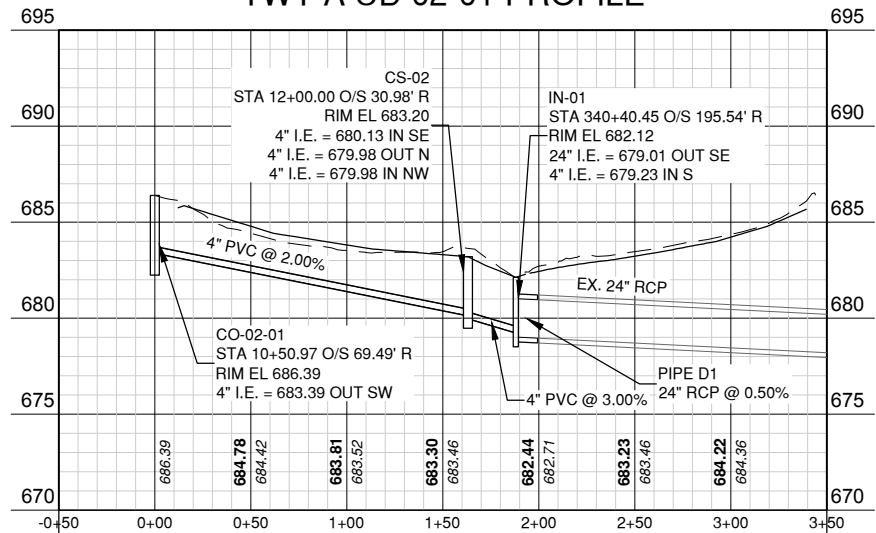
DRAINAGE PROFILE 1



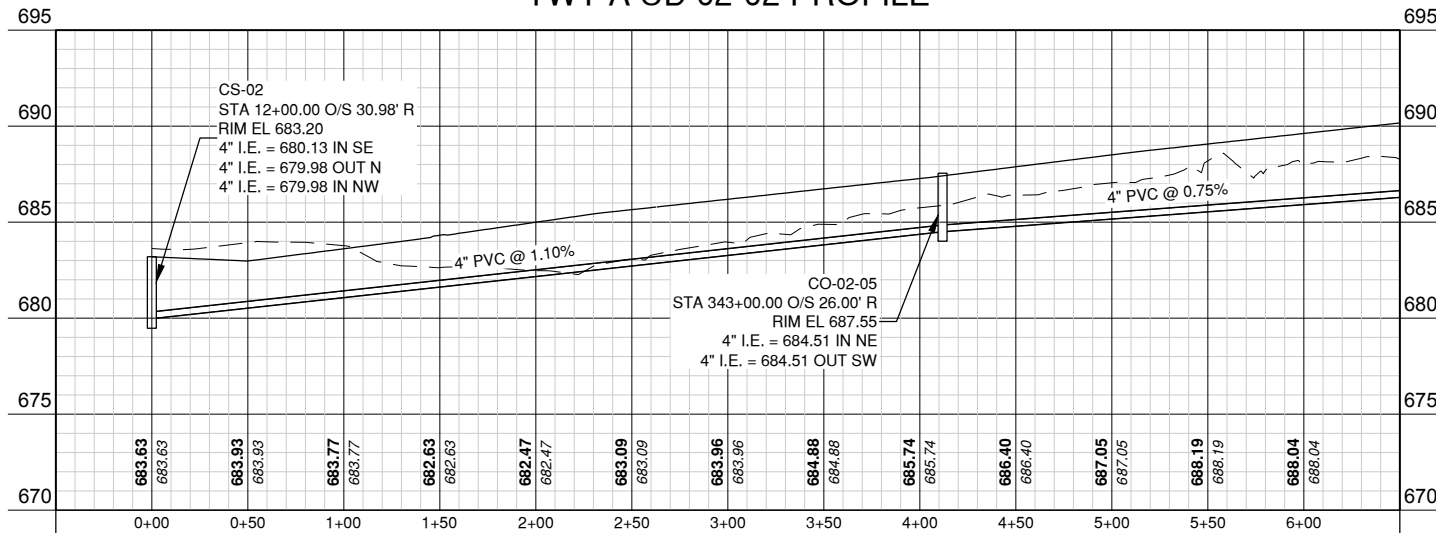
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CONSULTANTS

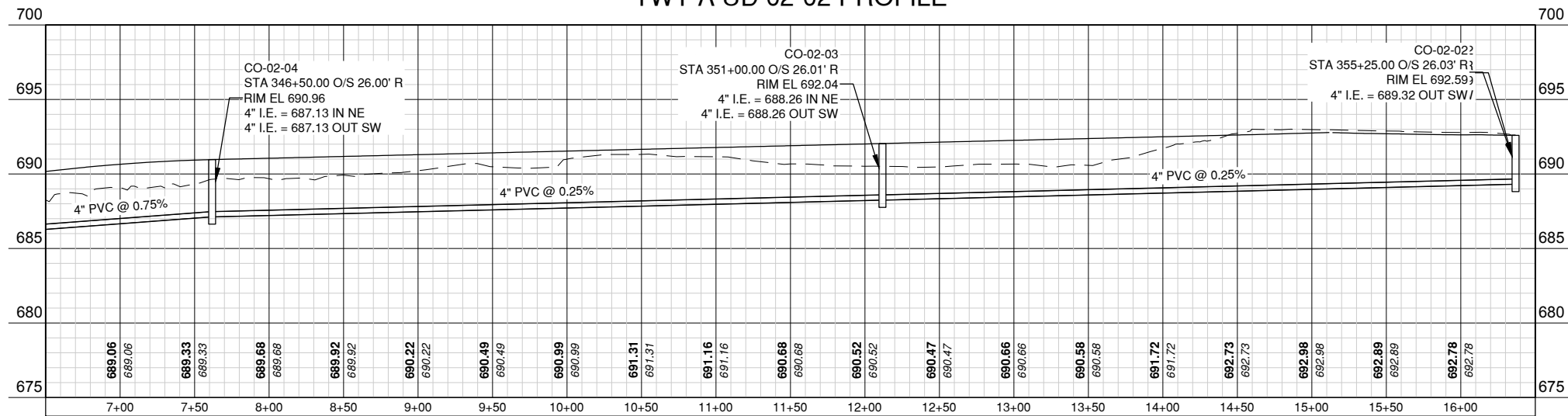
TWY A UD 02-01 PROFILE



TWY A UD 02-02 PROFILE



TWY A UD 02-02 PROFILE



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

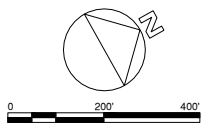
MARK	DATE	DESCRIPTION
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FED PROJ. NO. 3-17-SBG-156/162
IL PROJ. NO. DNV-4742 CONTRACT: VE055
CMT PROJECT NO: 190042-02
CAD DWG FILE: DNV-4742-CU800.DWG
DESIGNED BY: AJG
DRAWN BY: CMT
CHECKED BY: MJD
APPROVED BY: EMH
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SHEET TITLE

DRAINAGE PROFILE 2

CU802
SHEET 42 OF 70



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

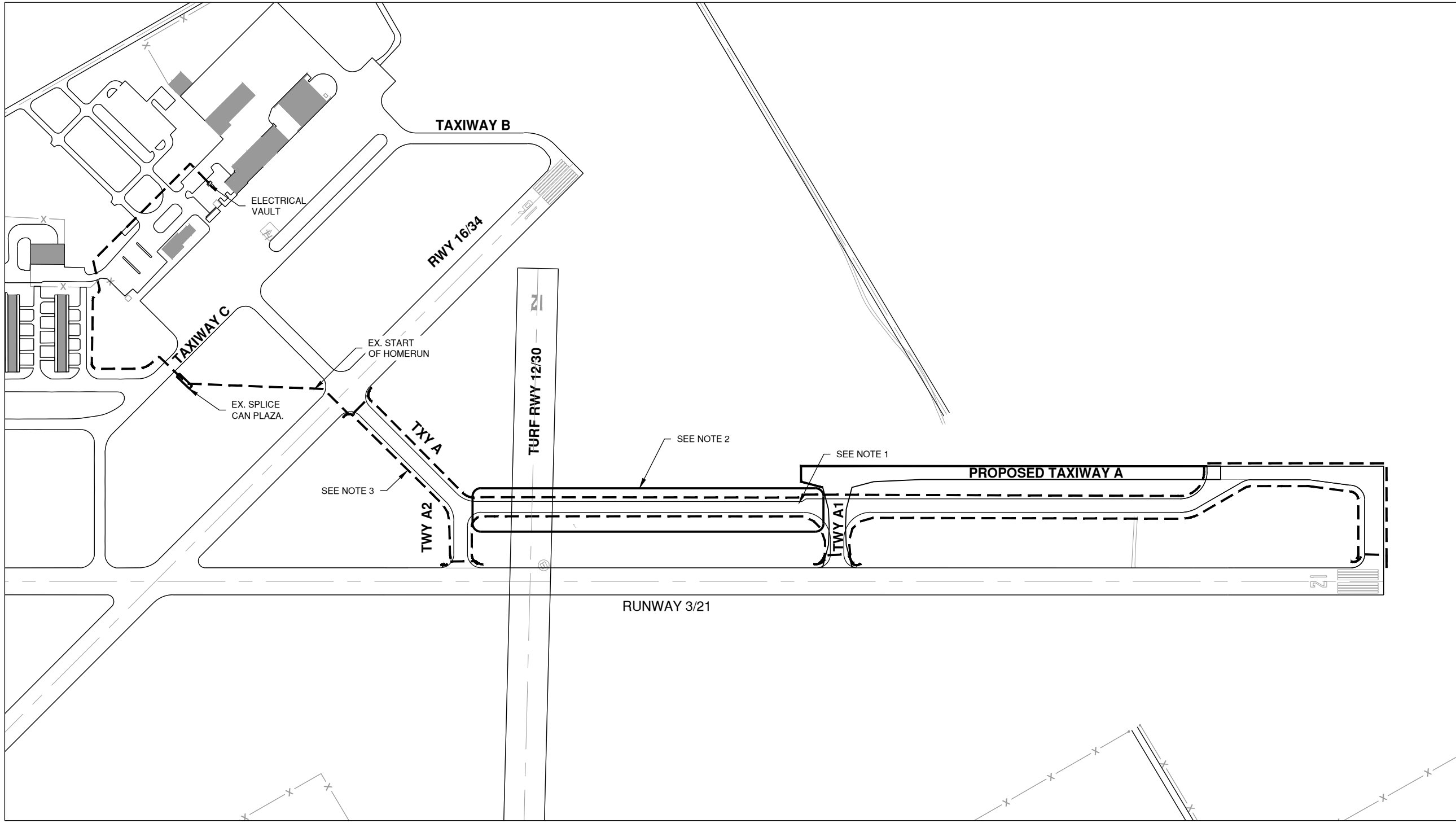


VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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-EG200.DWG	
DESIGNED BY: AJG	
DRAWN BY: CMT	
CHECKED BY: MJD	
APPROVED BY: EMH	
COPYRIGHT:	

SHEET TITLE
**PROPOSED
CIRCUITRY
SCHEMATIC**



LEGEND

--- EXISTING TAXIWAY A CIRCUIT (CIRCUIT 1)
SHOWN IN SCHEMATIC VIEW FOR CLARITY ON THIS SHEET.

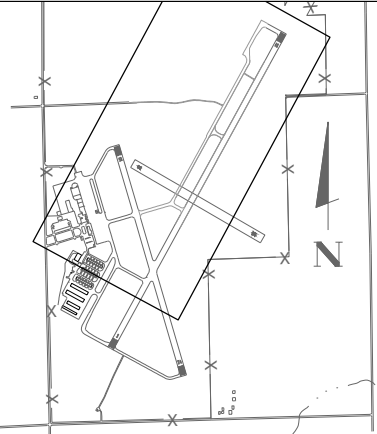
NOTES

- SEE ELECTRICAL LAYOUT PLAN FOR PROPOSED CABLING AND CONNECTION TO EXISTING CIRCUIT 1.
- 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.
- THIS SHEET IS FOR SCHEMATIC VIEWING ONLY AND IS NOT INTENDED TO SHOW OTHER UTILITIES OR CIRCUITS.

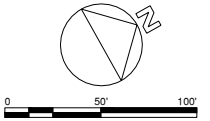
THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED 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 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.

KEY PLAN



Path: K:\Danville\Aq\190042-02_Rehab\Twy\Draw\Sheets\DNV-4742-EG200.dwg
Date: Friday, June 18, 2021 12:16:30



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER

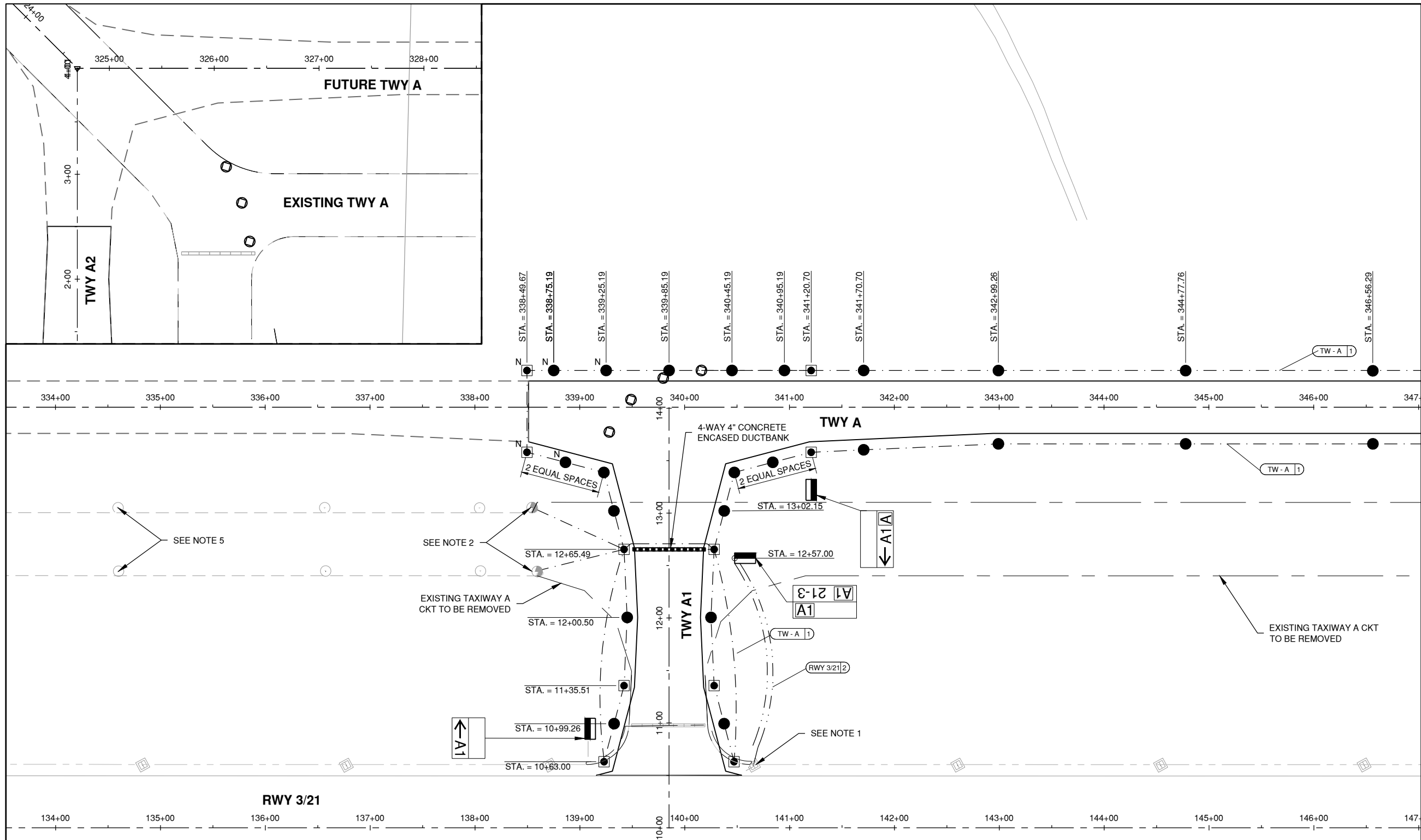


VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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-EL100.DWG	
DESIGNED BY: AJG	
DRAWN BY: CMT	
CHECKED BY: MJD	
APPROVED BY: EMH	
COPYRIGHT:	

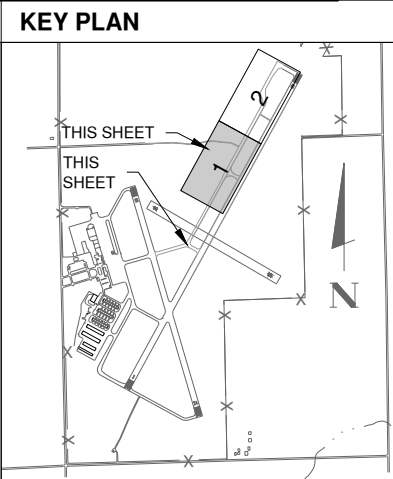
SHEET TITLE
ELECTRICAL LAYOUT PLAN 1



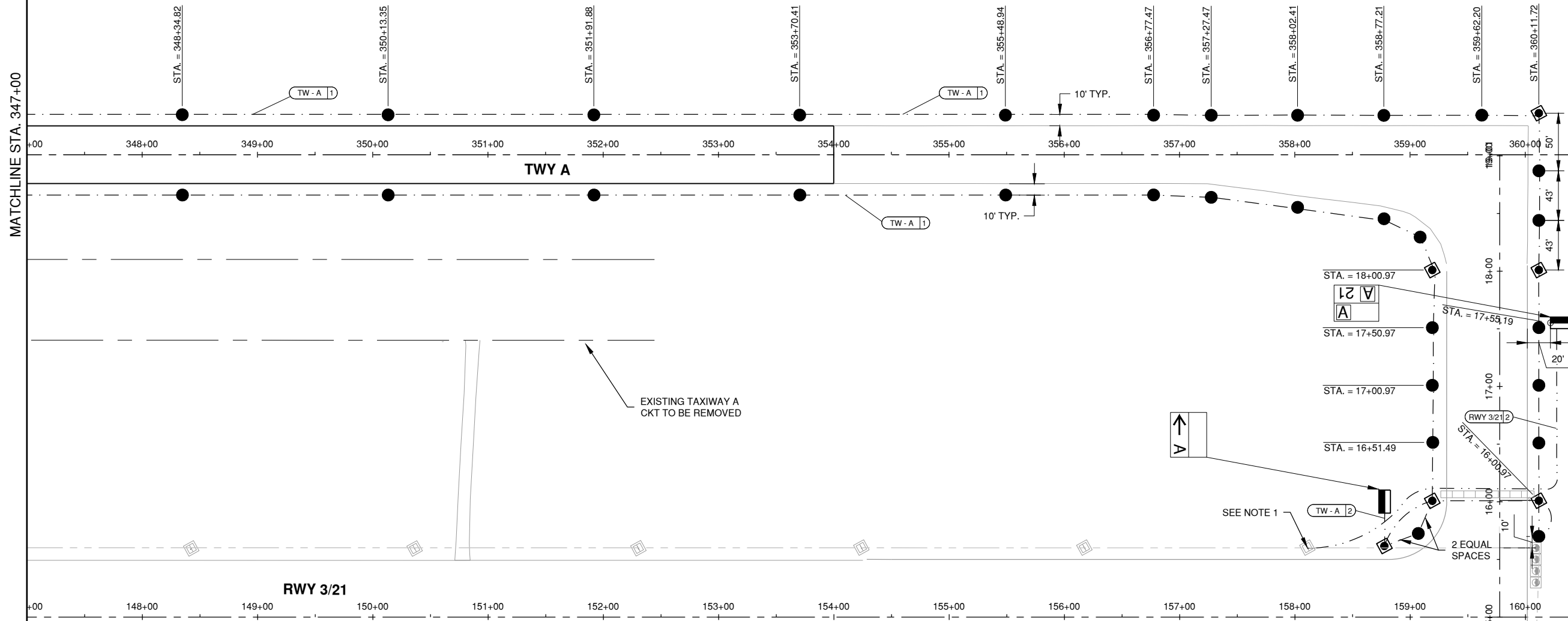
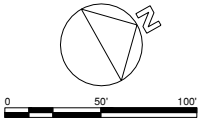
MATCHLINE STA. 347+00

LEGEND	
	EXISTING TAXIWAY GUIDANCE SIGN
	NEW TAXIWAY GUIDANCE SIGN
	TAXIWAY EDGE LIGHT - STAKE MOUNTED
	TAXIWAY EDGE LIGHT - BASE MOUNTED
	DUCT BANK (4-WAY)
	NON-ENERGIZED TAXIWAY LIGHTS TO BE INSTALLED PER NOTE 6
	RETROREFLECTIVE MARKER
	NEW TAXIWAY A CABLE; #8 5KV IN UD
	NEW RUNWAY 3-21 CABLE; #8 5KV IN UD
	EXISTING TAXIWAY A CABLE; #8 5KV IN UD TO REMAIN
	EXISTING RUNWAY 3/21 CABLE; #8 5KV TO REMAIN
	CIRCUIT NAME; # OF CABLES

- NOTES**
- RECONNECT SIGN TO EXISTING RUNWAY CIRCUIT AT THIS LIGHT.
 - CONNECT NEW CIRCUIT TO EXISTING CIRCUIT AT EXISTING LIGHT CAN.
 - 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.
 - 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.
 - REMOVE EXISTING TAXIWAY EDGE LIGHTS ALONG ABANDONED TAXIWAY SECTION. DISCONNECT EXISTING SIGNS FROM CIRCUIT AT SPLICE CAN.
 - 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.
 - THE AIRPORT SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ELECTRICAL EQUIPMENT.
 - INSTALL COUNTERPOISE AS DETAILED ON SHEET ES501.
 - 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.



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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



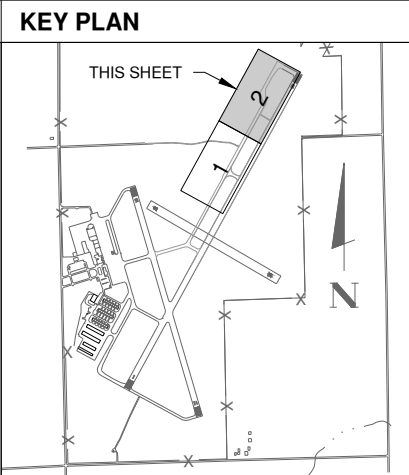
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
		FED PROJ. NO. 3-17-SBGP-156/162
		IL PROJ. NO. DNV-4742 CONTRACT: VE055
		CMT PROJECT NO: 190042-02
		CAD DWG FILE: DNV-4742-EL100.DWG
		DESIGNED BY: AJG
		DRAWN BY: CMT
		CHECKED BY: MJD
		APPROVED BY: EMH
		COPYRIGHT:

SHEET TITLE
**ELECTRICAL LAYOUT
PLAN 2**

LEGEND	
	EXISTING TAXIWAY GUIDANCE SIGN
	NEW TAXIWAY GUIDANCE SIGN
	EXISTING TAXIWAY EDGE LIGHT - STAKE MOUNTED
	NEW TAXIWAY EDGE LIGHT - STAKE MOUNTED
	EXISTING TAXIWAY EDGE LIGHT - BASE MOUNTED
	NEW TAXIWAY EDGE LIGHT - BASE MOUNTED
	DUCT BANK (4-WAY)
	N NON-ENERGIZED TAXIWAY LIGHTS TO BE INSTALLED PER NOTE 6
	RETROREFLECTIVE MARKER
	NEW TAXIWAY A CABLE; #8 5KV IN UD
	NEW RUNWAY 3-21 CABLE; #8 5KV IN UD
	EXISTING TAXIWAY A CABLE; #8 5KV IN UD TO REMAIN
	EXISTING RUNWAY 3/21 CABLE; #8 5KV TO REMAIN
	CIRCUIT NAME; # OF CABLES

- NOTES**
1. RECONNECT SIGN TO EXISTING RUNWAY CIRCUIT AT THIS LIGHT.
 2. CONNECT NEW CIRCUIT TO EXISTING CIRCUIT AT EXISTING LIGHT CAN.
 3. 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.
 4. 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.
 5. REMOVE EXISTING TAXIWAY EDGE LIGHTS ALONG ABANDONED TAXIWAY SECTION. DISCONNECT EXISTING SIGNS FROM CIRCUIT AT SPLICE CAN.
 6. 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.
 7. THE AIRPORT SHALL HAVE RIGHT OF FIRST REFUSAL ON ALL REMOVED ELECTRICAL EQUIPMENT.
 8. INSTALL COUNTERPOISE AS DETAILED ON SHEET ES501
 9. 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.



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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

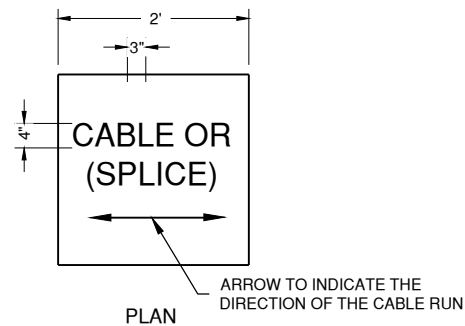
OWNER



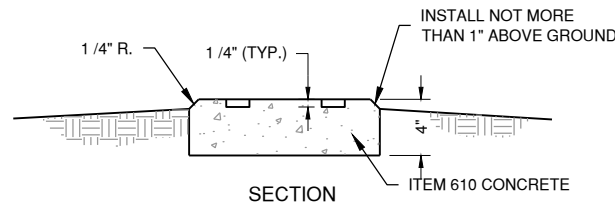
VERMILION REGIONAL
AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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

SHEET TITLE
ELECTRICAL DETAILS
1

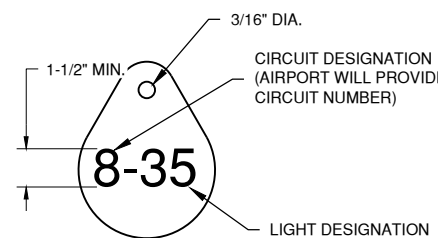


1 TURF CABLE / SPLICE MARKER
N.T.S.



NOTES:

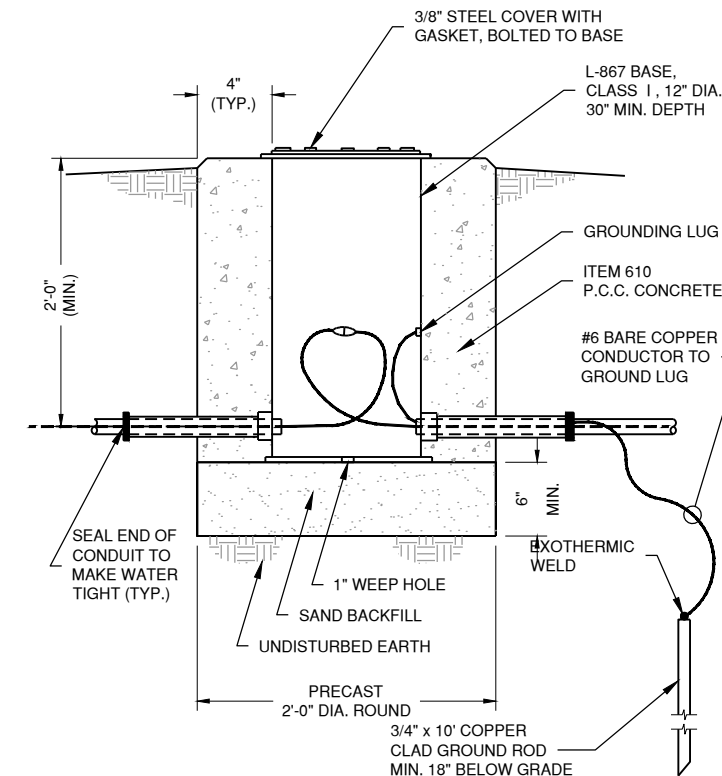
1. DUCT MARKERS SHALL BE INSTALLED AT BOTH EDGES OF PAVEMENT WHERE PROPOSED ELECTRICAL DUCTS CROSS BOTH NEW AND EXISTING PAVEMENTS.
2. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
3. ITEM 610 CONCRETE SHALL BE USED.
4. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS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



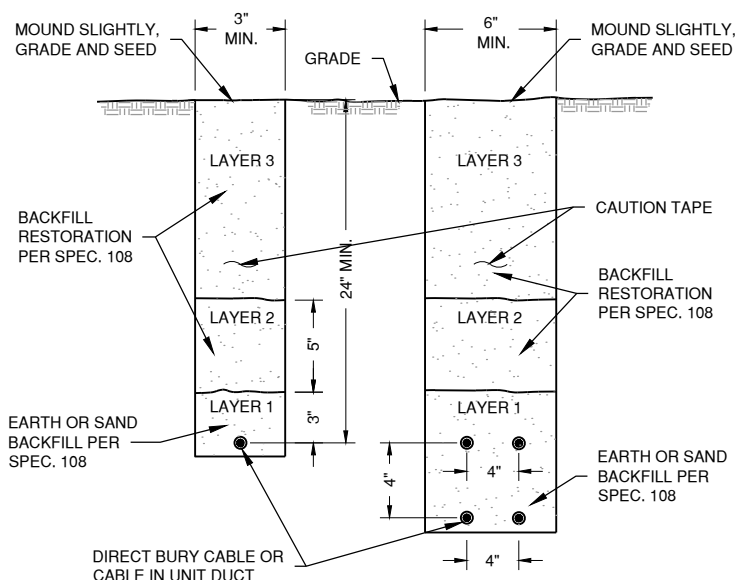
2 LIGHT IDENTIFICATION TAG
N.T.S.

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.



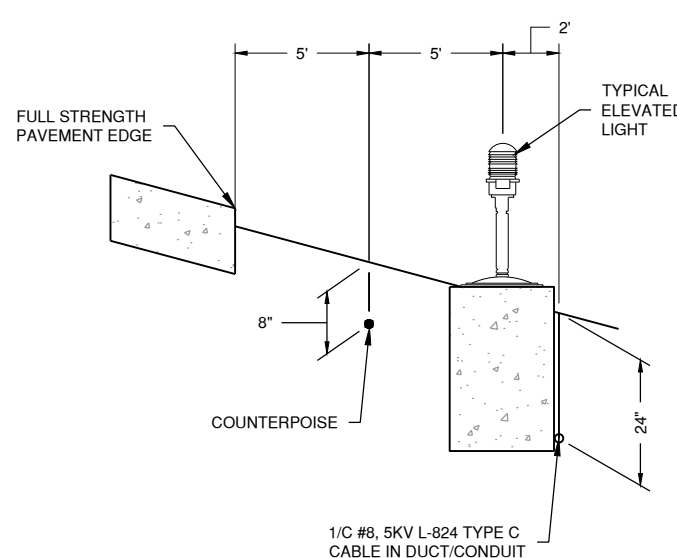
3 SPLICE CAN
N.T.S.



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.

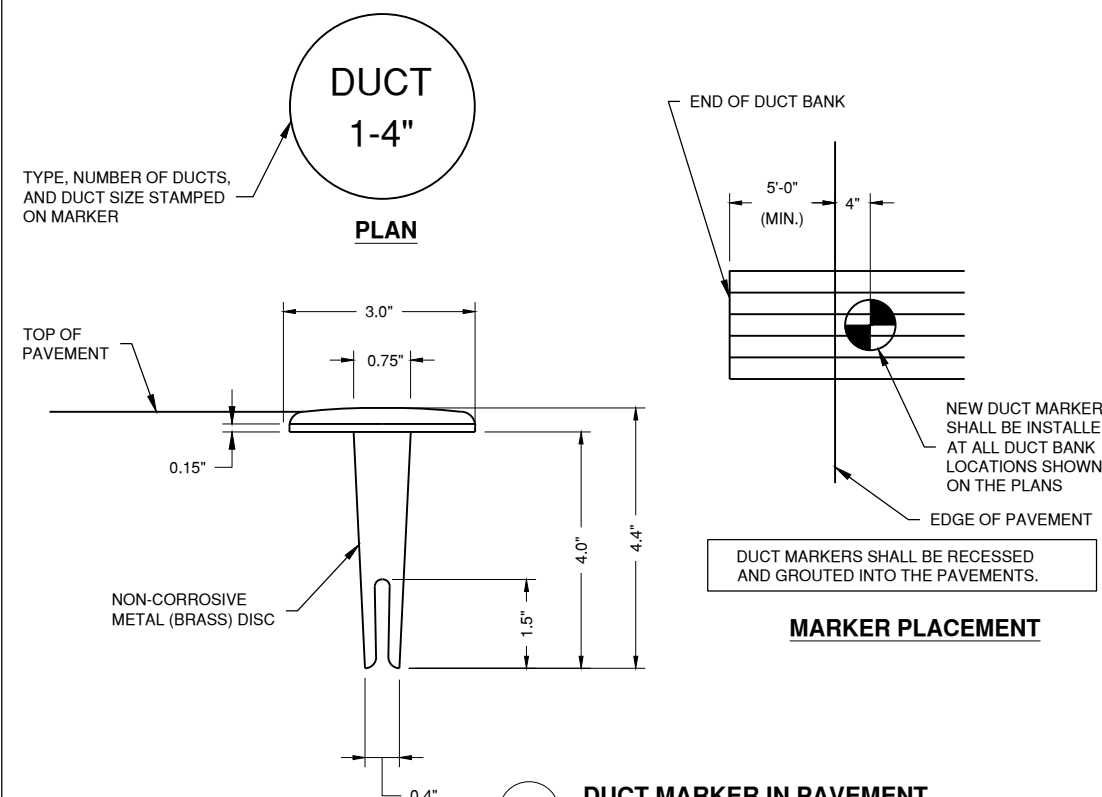
4 CABLE TRENCH
N.T.S.



NOTES:

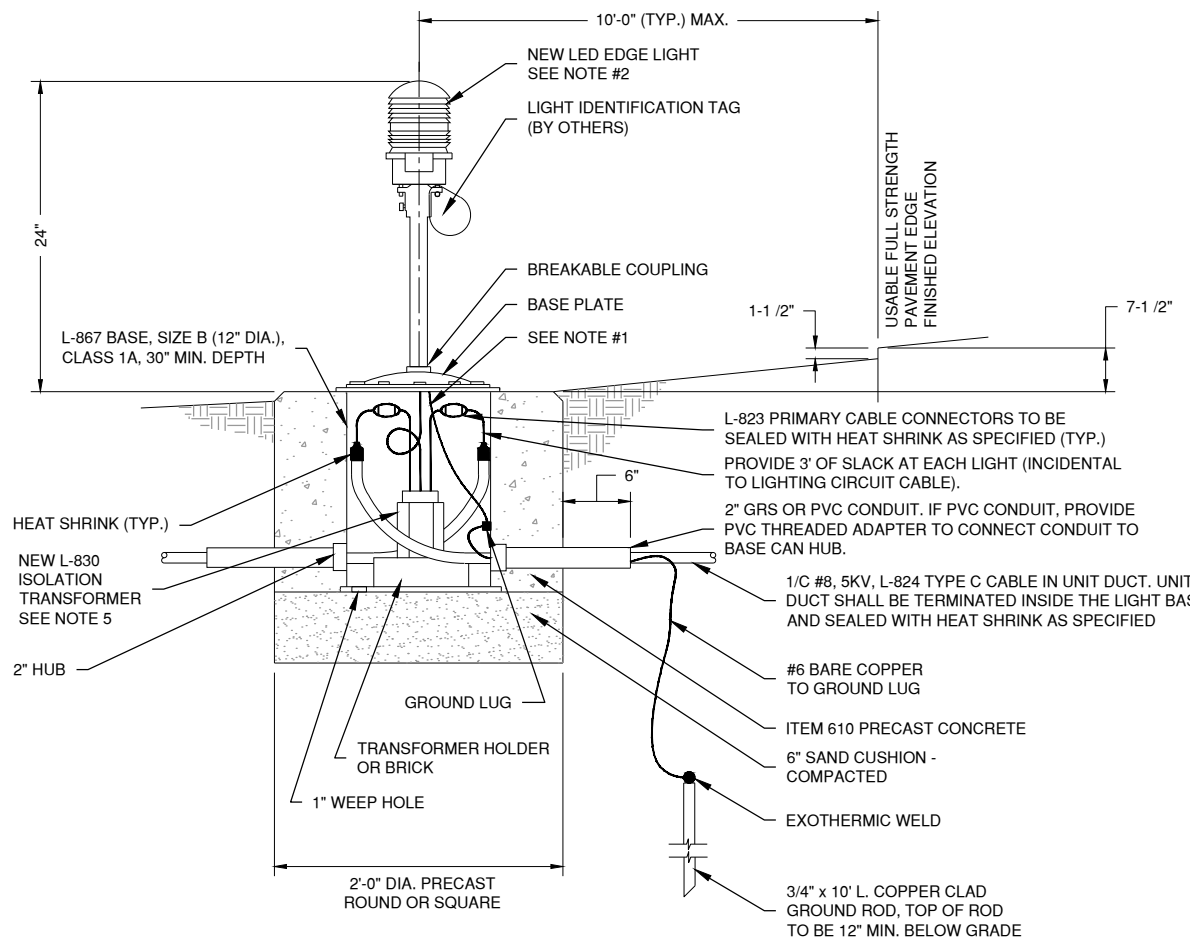
- #6 BARE COUNTERPOISE WITH 3/4" x 10" GROUND ROD INSTALLED AT MAX. 500' SPACING. ALSO USE GROUND ROD TO TERMINATE THE COUNTERPOISE AT BOTH ENDS OF DUCT. GROUND RODS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.

5 COUNTERPOISE LOCATION
N.T.S.

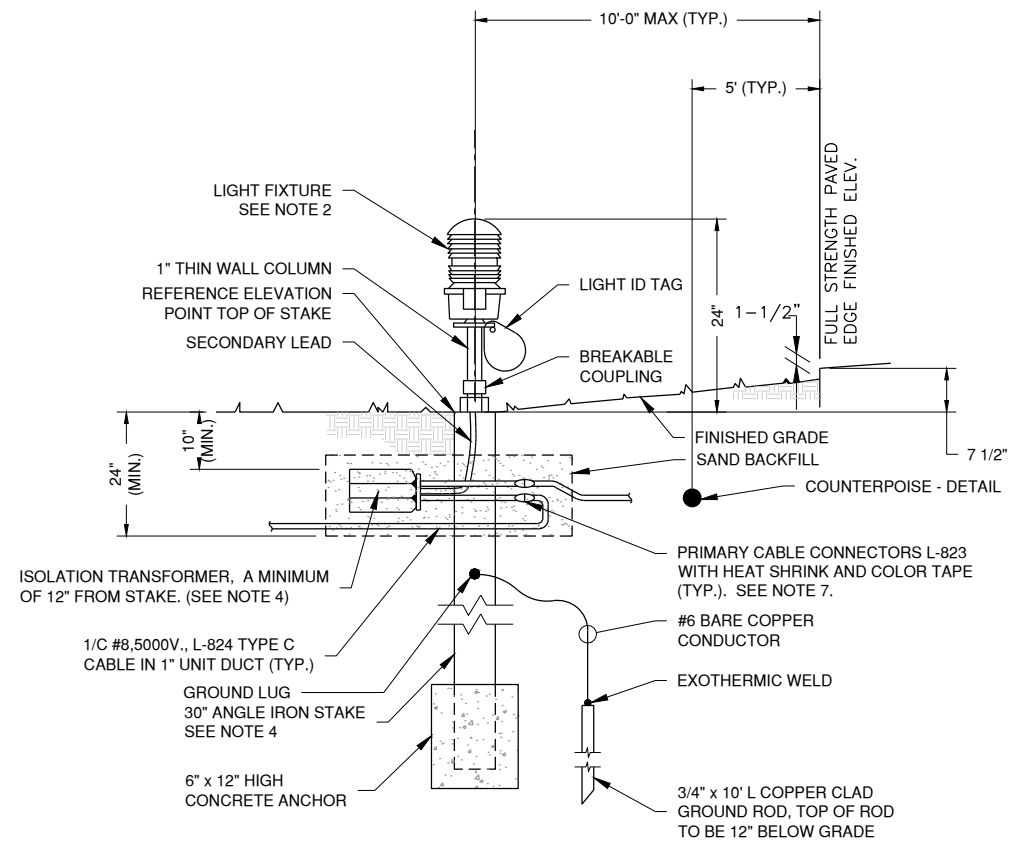


6 DUCT MARKER IN PAVEMENT
N.T.S.

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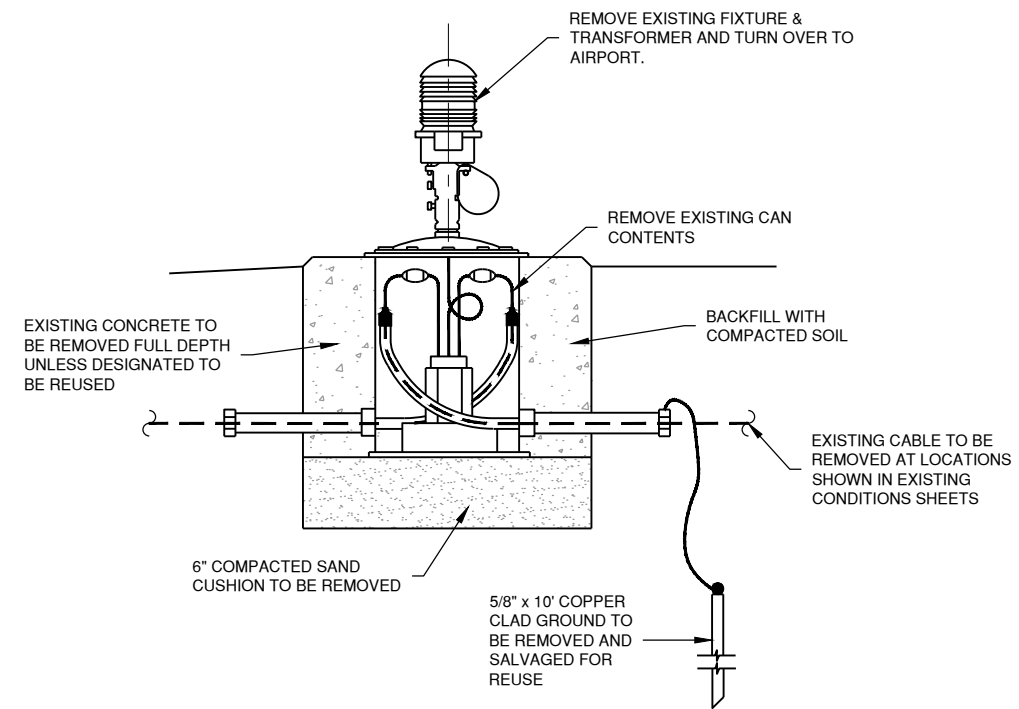
1 NEW BASE MOUNTED ELEVATED LIGHT IN TURF
N.T.S.



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, 1/15 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 BASE MOUNTED LIGHT
N.T.S.

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

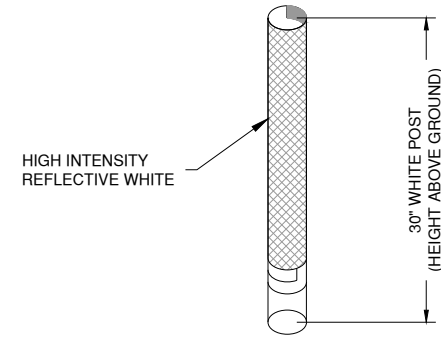
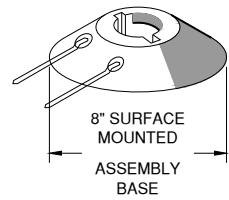
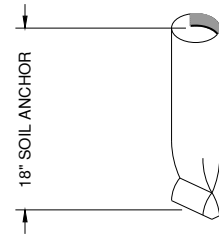
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VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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CMT PROJECT NO: 190042-02		
CAD DWG FILE: DNV-4742-ES500.DWG		
DESIGNED BY: AJG		
DRAWN BY: CMT		
CHECKED BY: MJD		
APPROVED BY: EMH		
COPYRIGHT:		

SHEET TITLE
ELECTRICAL DETAILS
2



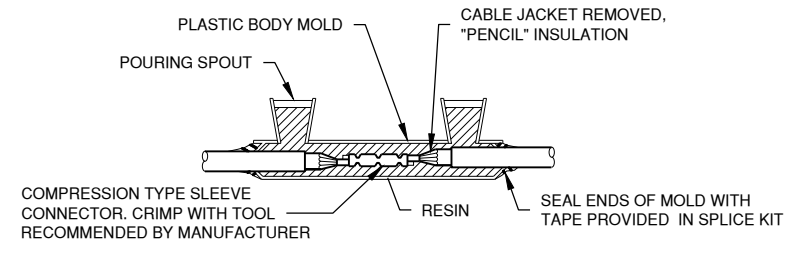
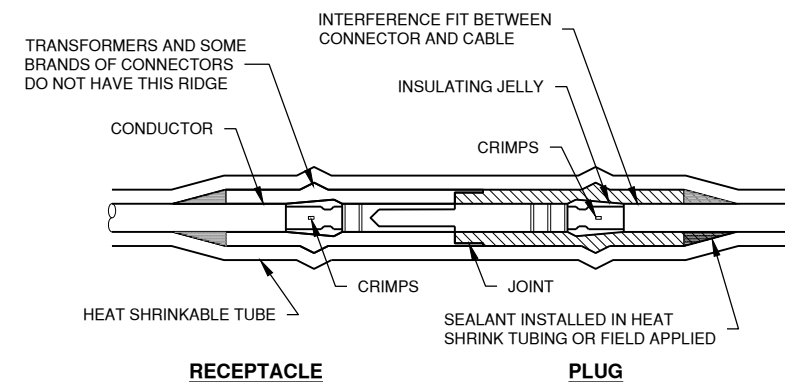
2 ELEVATED RETRO-REFLECTIVE MARKER
N.T.S.

RETRO-REFLECTIVE MARKER NOTES

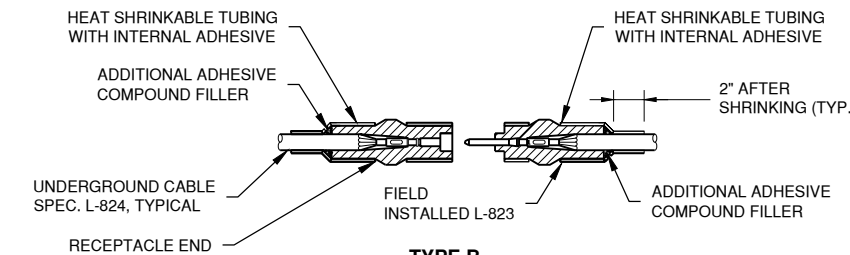
- RETROREFLECTIVE MARKER SHALL MET FAA AC 150/5345-39D AIRFIELD LIGHTING EQUIPMENT CERTIFICATION PROGRAM

INSTALLATION INSTRUCTIONS TO SUPPLEMENT THE MANUFACTURER'S INSTRUCTIONS

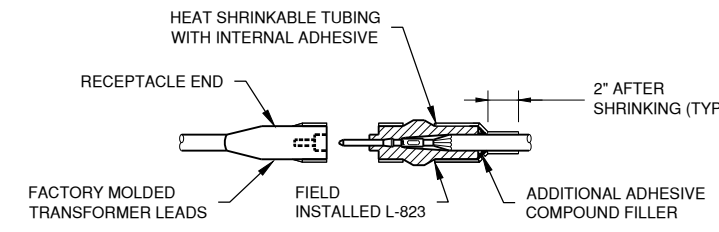
- CLEAN THE CABLE THOROUGHLY 9" MIN. FROM THE END.
- REMOVE INSULATION PER MANUFACTURER'S INSTRUCTIONS. DO NOT NICK THE CONDUCTOR. DO NOT PENCIL INSULATION ON L-824 TYPE C CABLE.
- INSTALL PIN AND/OR RECEPTICAL WITH CRIMPING TOOL WHICH MUST BE COMPLETELY CLOSED BEFORE THE TOOL MAY BE REMOVED.
- BE SURE CABLE AND CONDUCTOR FITTINGS ARE CLEAN. COAT THE CABLE INSULATION WITH INSULATION JELLY FROM THE CONNECTOR.
- CAREFULLY INSERT CABLE INTO CONNECTOR TO THE PROPER DEPTH.
- SLIP 14 INCH LENGTH OF HEAT SHRINK TUBING ON TRANSFORMER LEAD RAYCHEM TCS-13-14-U OR APPROVED EQUAL.
- COMPLETE CONNECTION BY MATING THE PLUG AND RECEPTICAL. ****CAUTION**** BE SURE THE CABLE DOES NOT SLIP WHEN THE CONNECTION IS MADE.
- APPLY RUBBER TAPE AND PLASTIC TAPE, ONE HALF LAPPED 1-1/2" ON EACH SIDE OF JOINT.
- ANY CONNECTOR WHICH IS CONTAMINATED BY DIRT OR OTHER DELETERIOUS MATERIAL SHALL BE REMOVED NOT REINSTALLED.
- CLEAN CONNECTOR AND CABLE INSULATION WITH WAX OR GREASE SOLVENT TO REMOVE SURFACE SILICONE JELLY.
- 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.
- 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 ***.**
- THE HEAT SOURCE SHALL BE AN ELECTRIC HEAT GUN OR A PROPANE WITH FLAME SPREADER.
- CONTRACTOR MAY ELECT TO INSTALL "COMPLETE KIT" IN LIEU OF L-823 CONNECTOR WITH HEAT SHRINK.



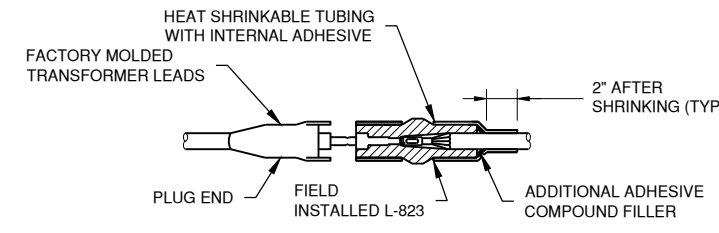
TYPE A
FOR SPLICES IN HOMERUNS AND FOR EXTENSIONS TO EXISTING CABLES ONLY



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

1 CABLE SPLICES
N.T.S.

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.



License No. 184-000613
CONSULTANTS

JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1



VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

SHEET TITLE

ELECTRICAL DETAILS

3

ES503
SHEET **48** OF **70**

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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER



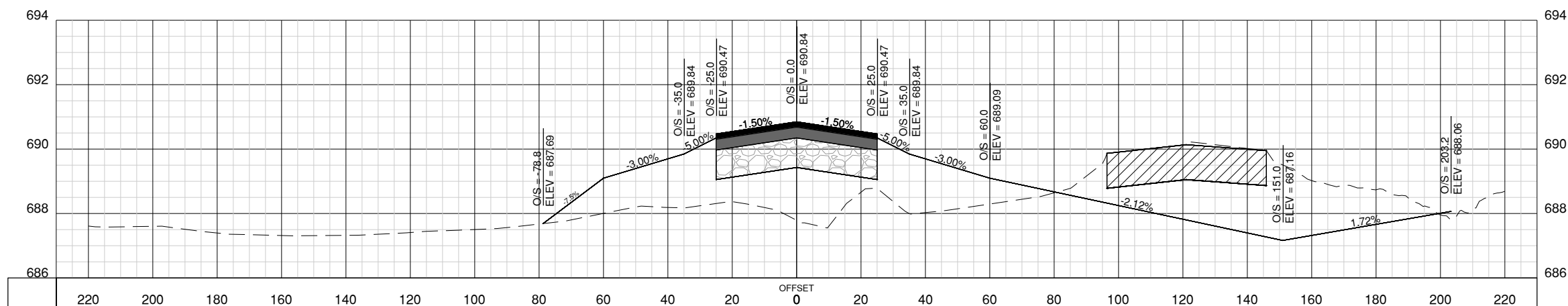
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DANVILLE, ILLINOIS

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		CMT PROJECT NO: 190042-02
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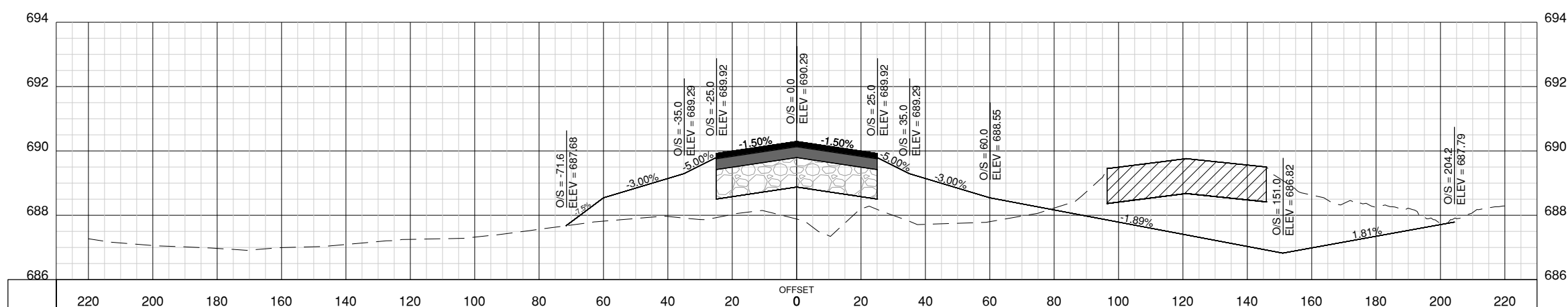
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A CROSS SECTIONS 6**

SHEET 57 OF 70 CG306

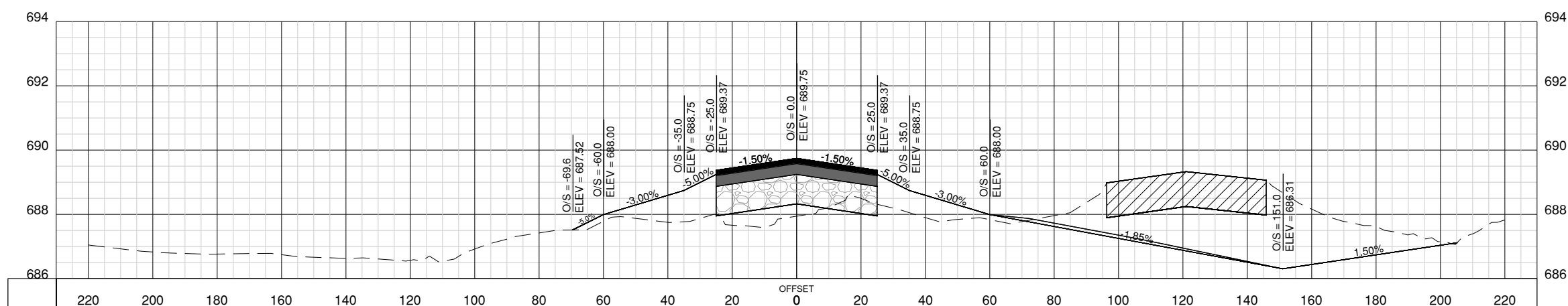
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JUNE 18, 2021

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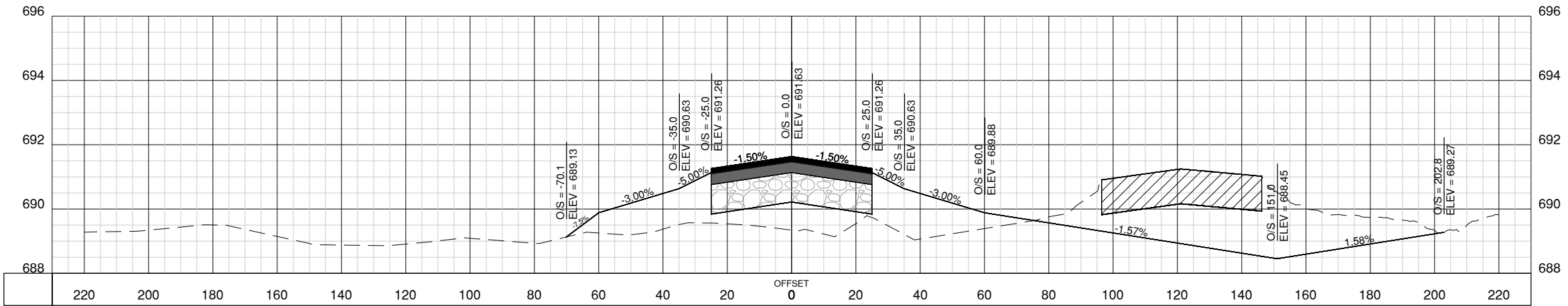


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DANVILLE, ILLINOIS

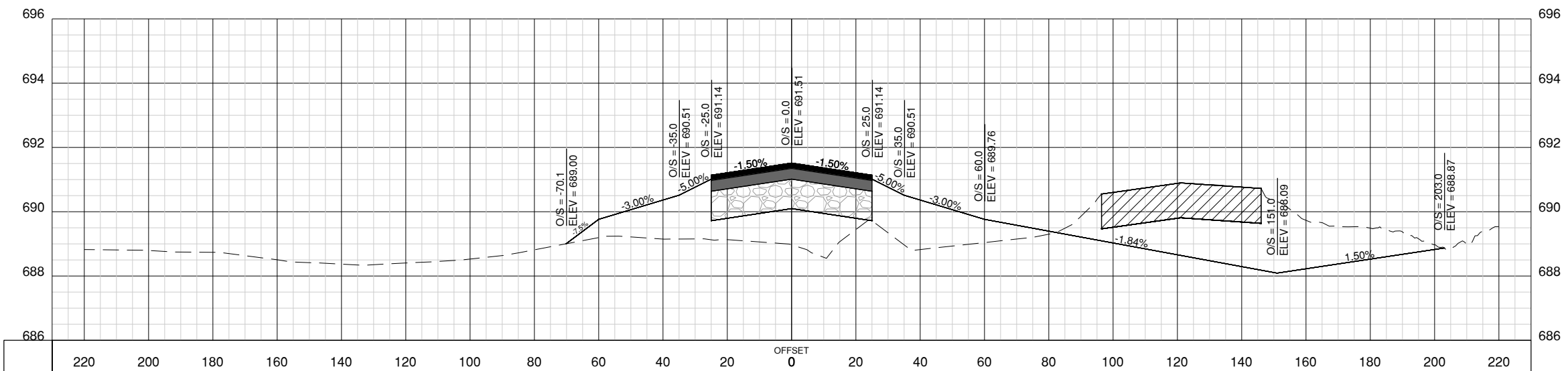
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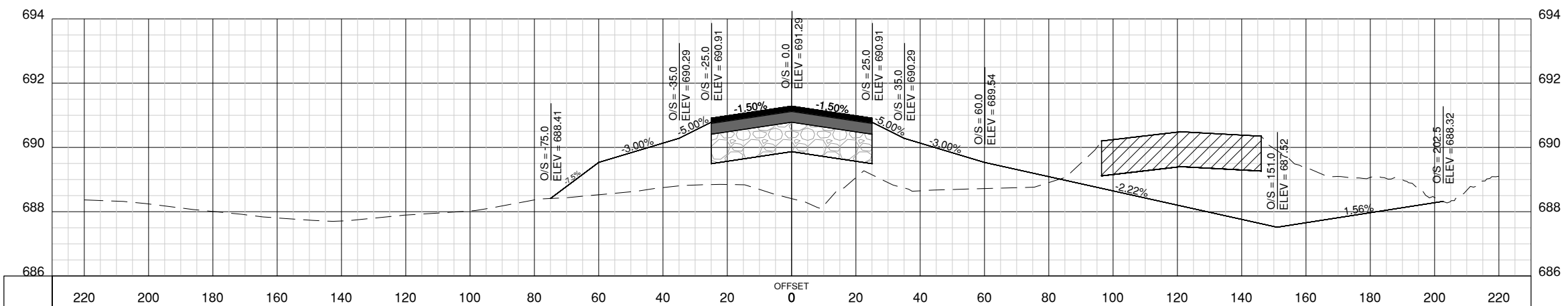
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JUNE 18, 2021

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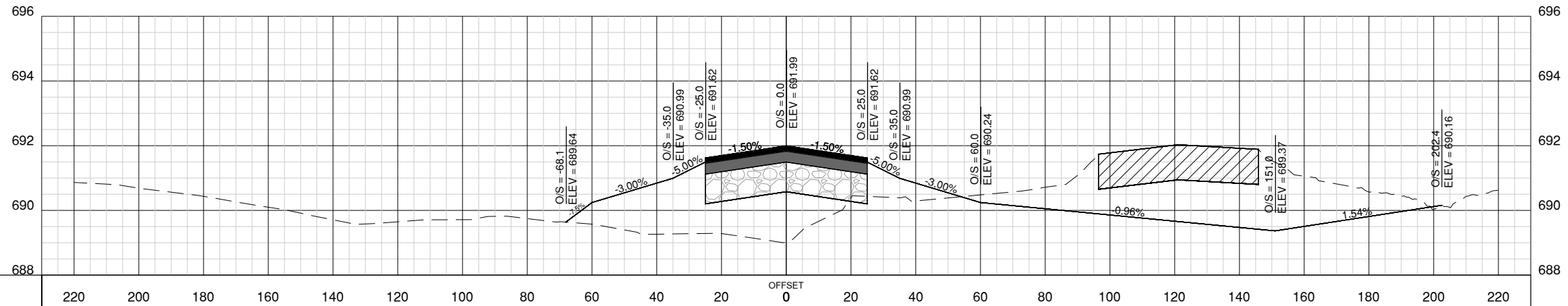
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DANVILLE, ILLINOIS

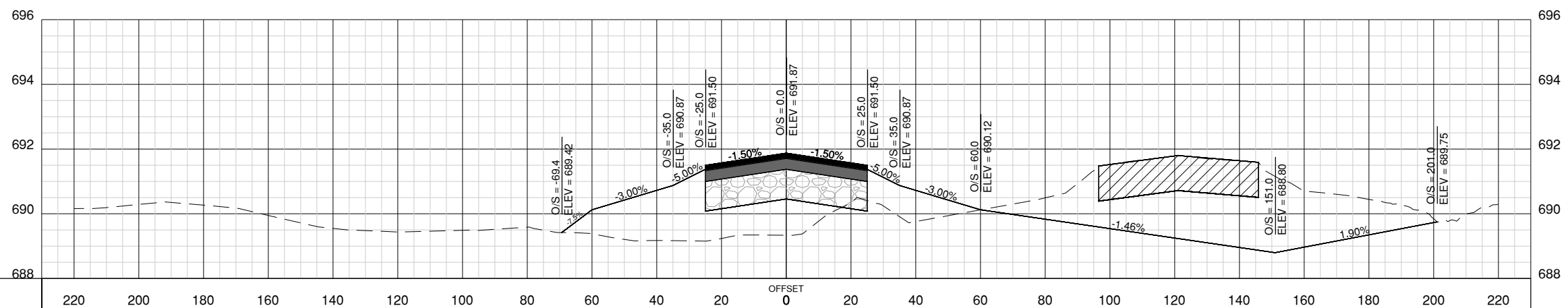
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SHEET 59 OF 70

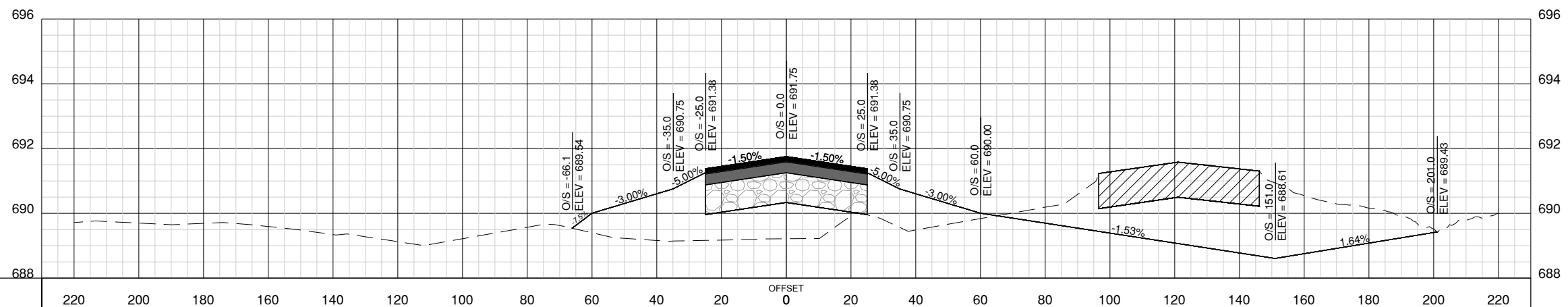
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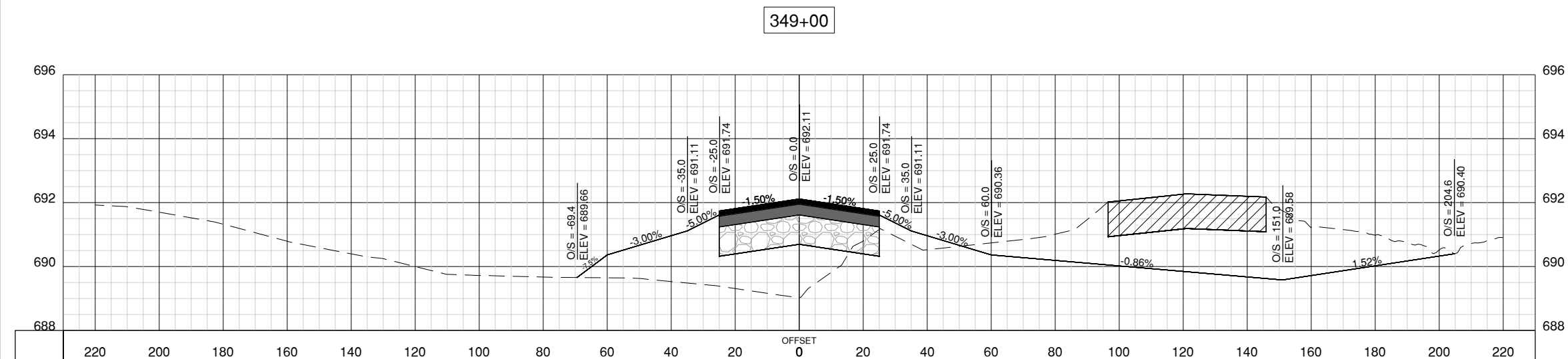
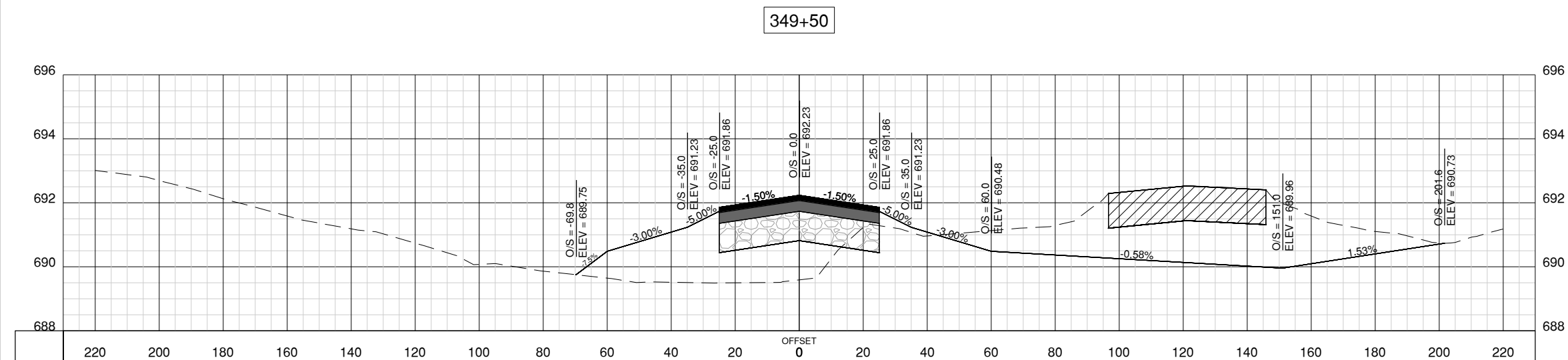
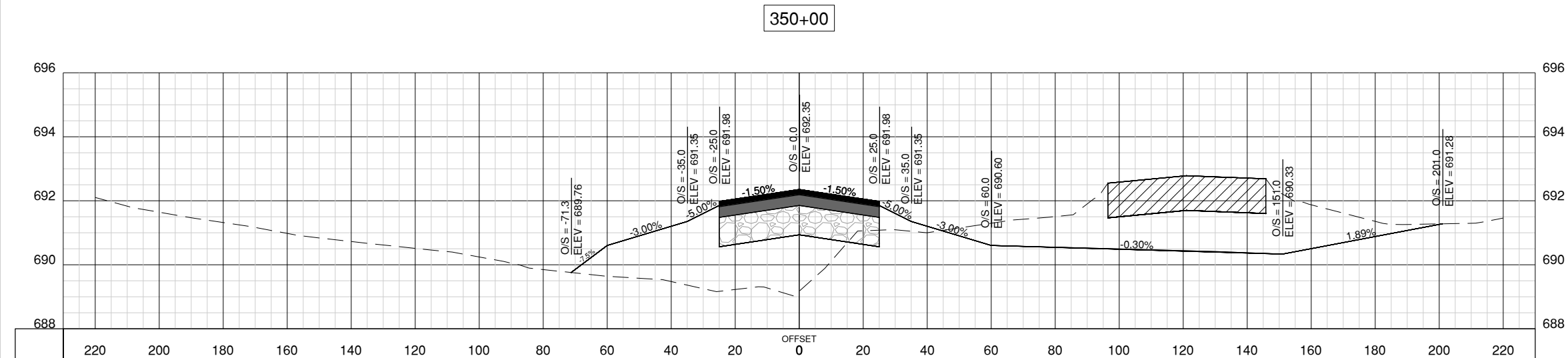


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JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

OWNER


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AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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**PROPOSED TAXIWAY
A CROSS SECTIONS 9**

JUNE 18, 2021

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AIRPORT AUTHORITY
DANVILLE, ILLINOIS

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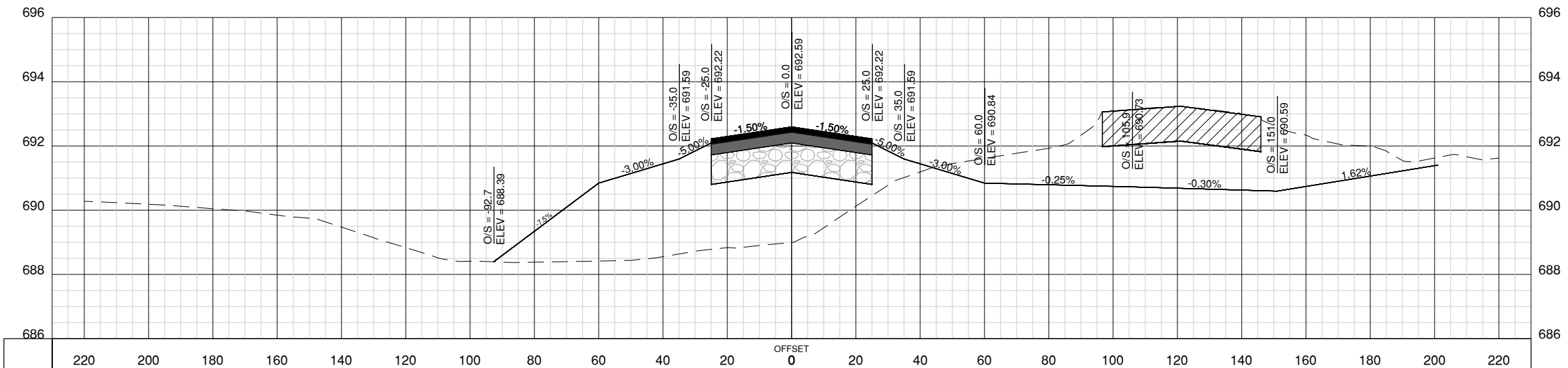
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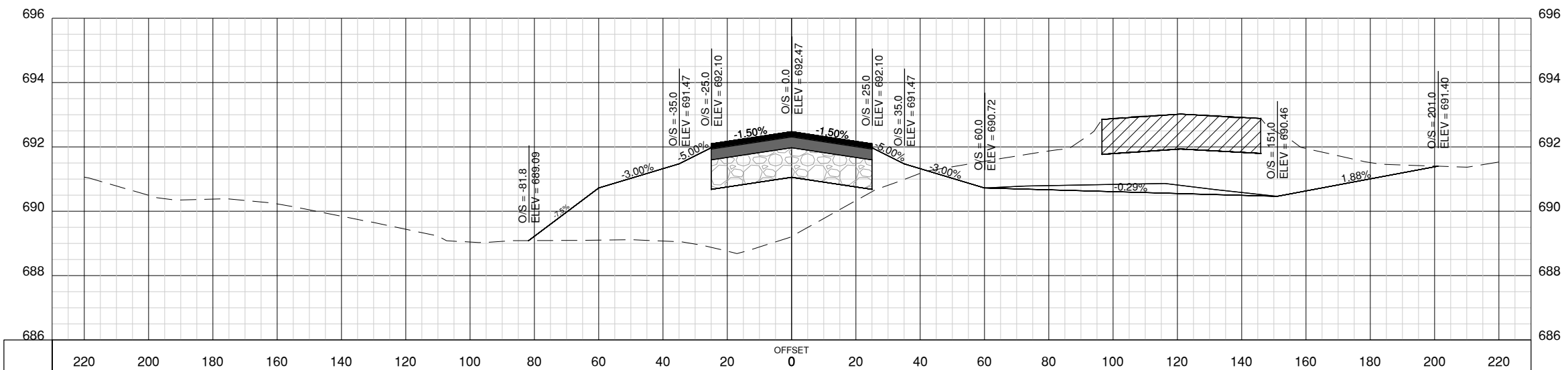
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10

SHEET 61 OF 70

351+00



350+50



JUNE 18, 2021

REALIGN TAXIWAY A - PHASE 1

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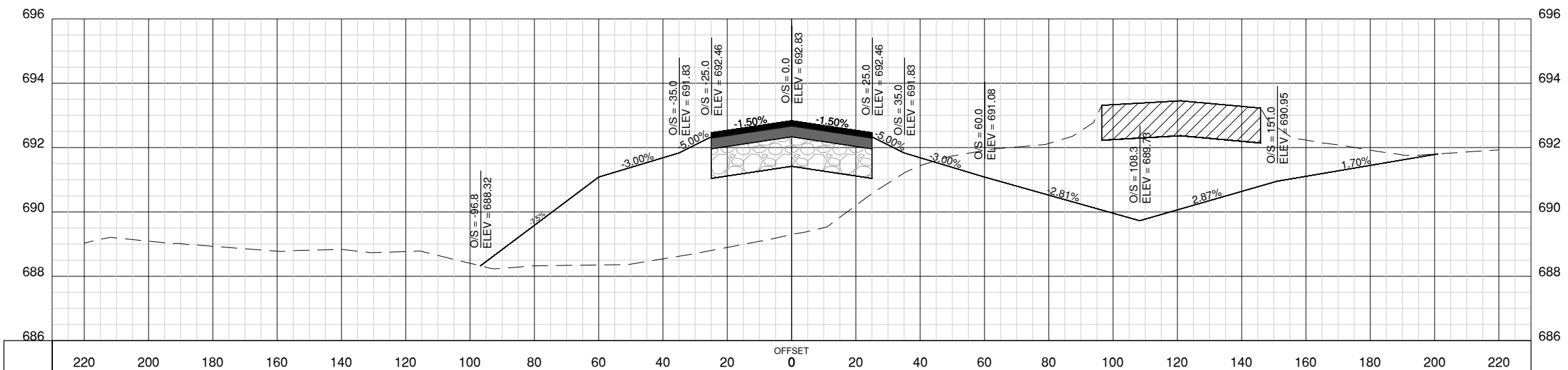
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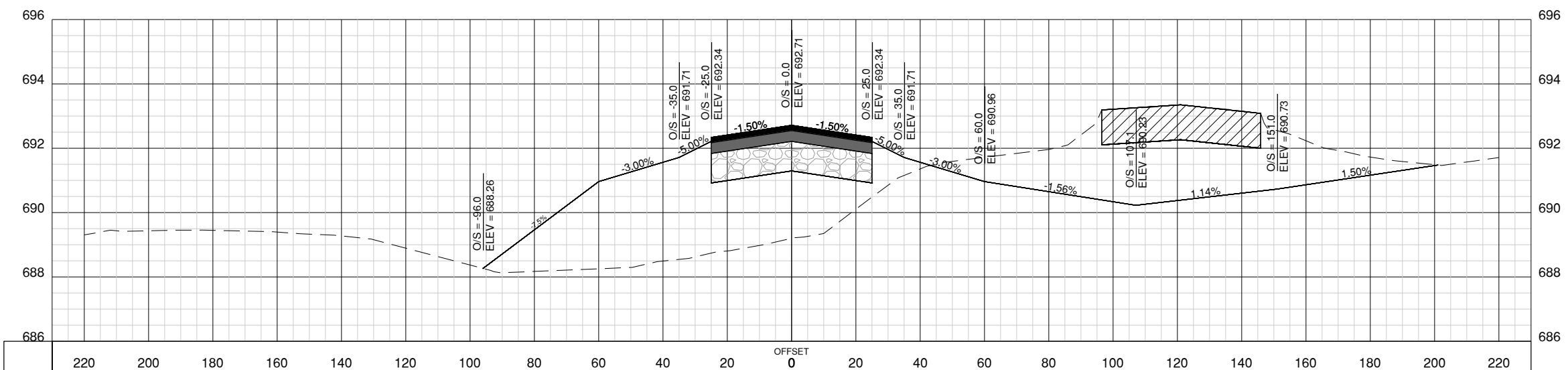
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CG311

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JUNE 18, 2021

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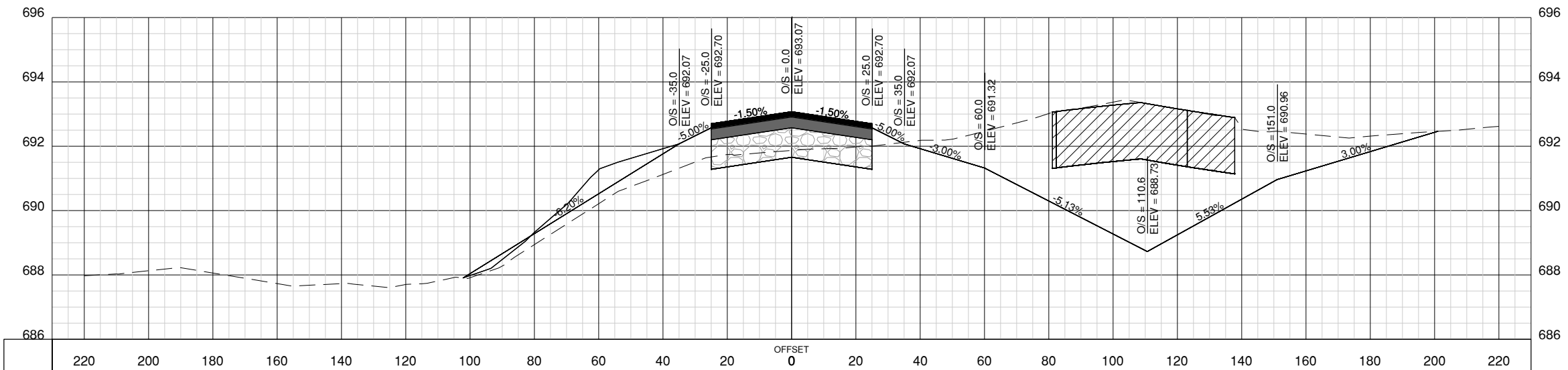
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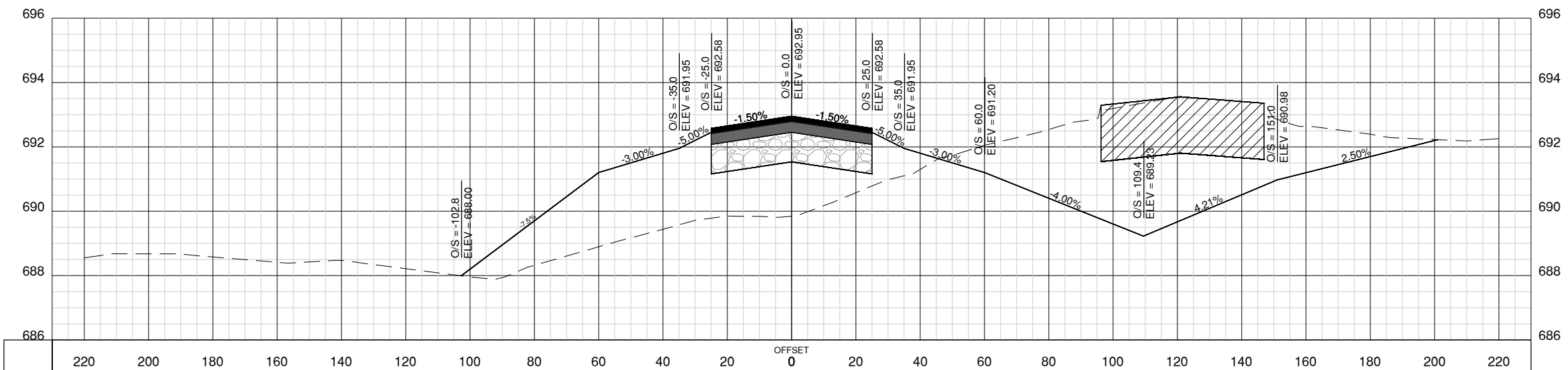
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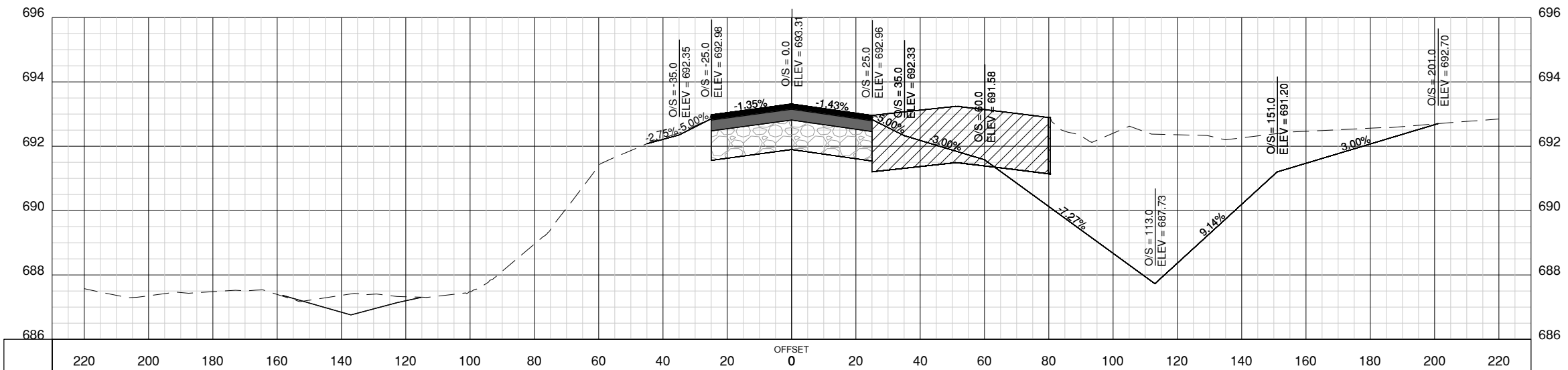
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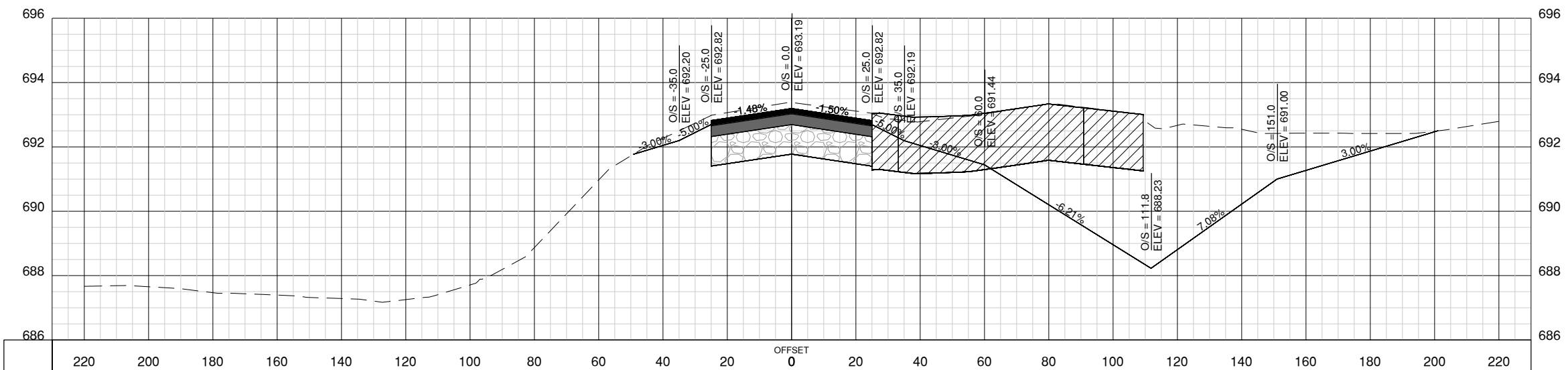
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A CROSS SECTIONS
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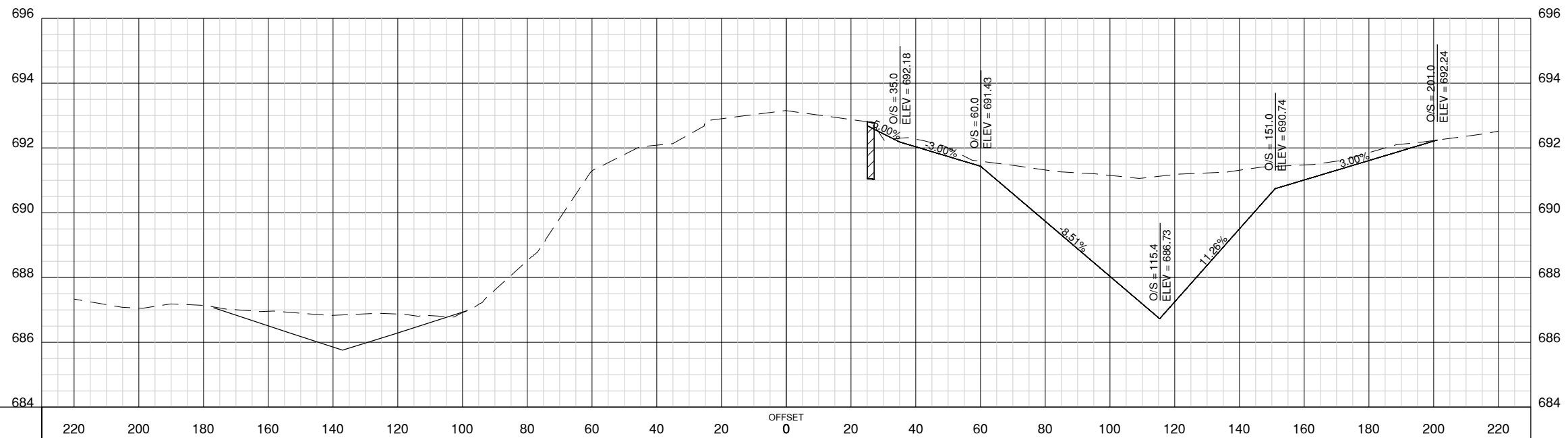


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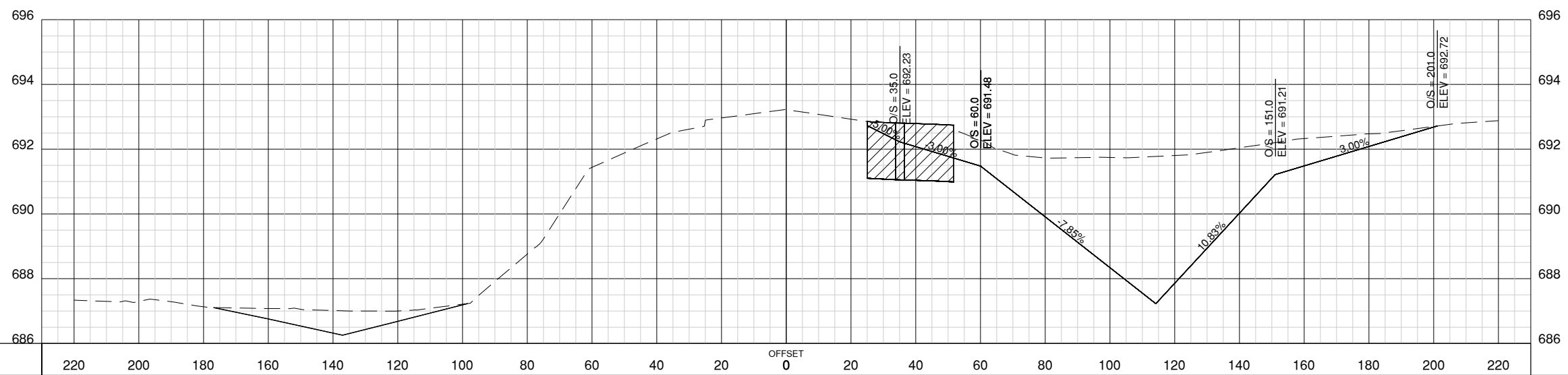
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SHEET TITLE
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A CROSS SECTIONS
14**

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354+50



JUNE 18, 2021

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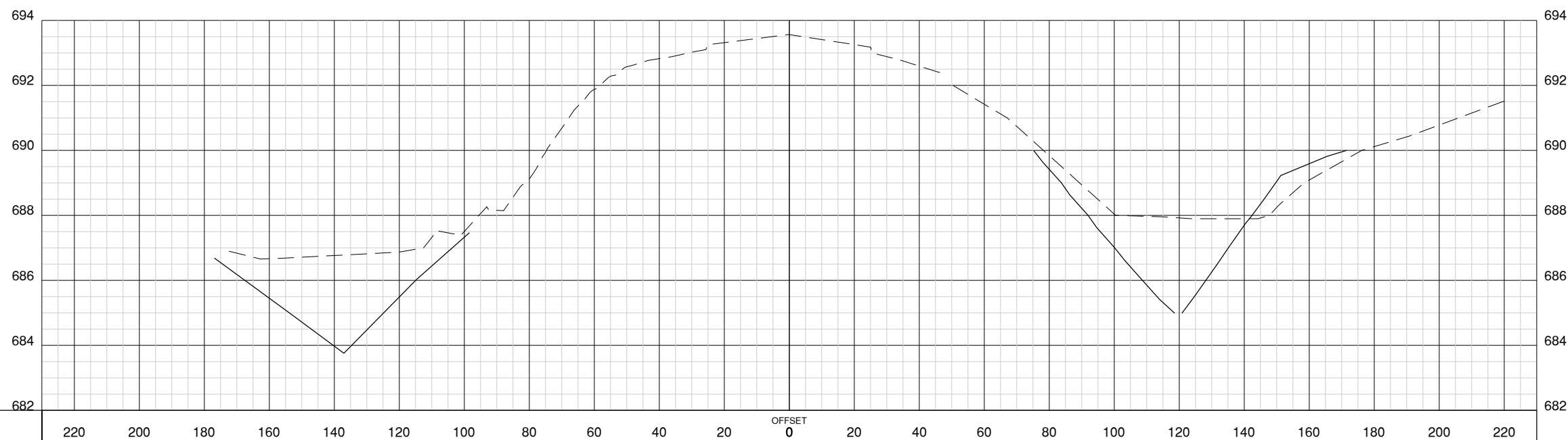
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SHEET TITLE
**PROPOSED TAXIWAY
A CROSS SECTIONS
16**

SHEET **67** **CG316** OF **70**

357+00



356+50

