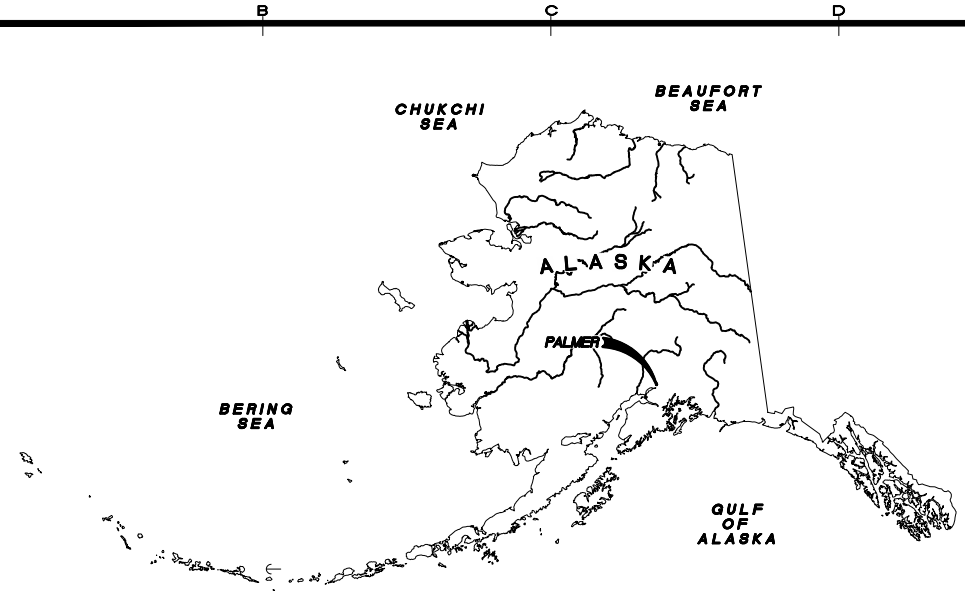


WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT

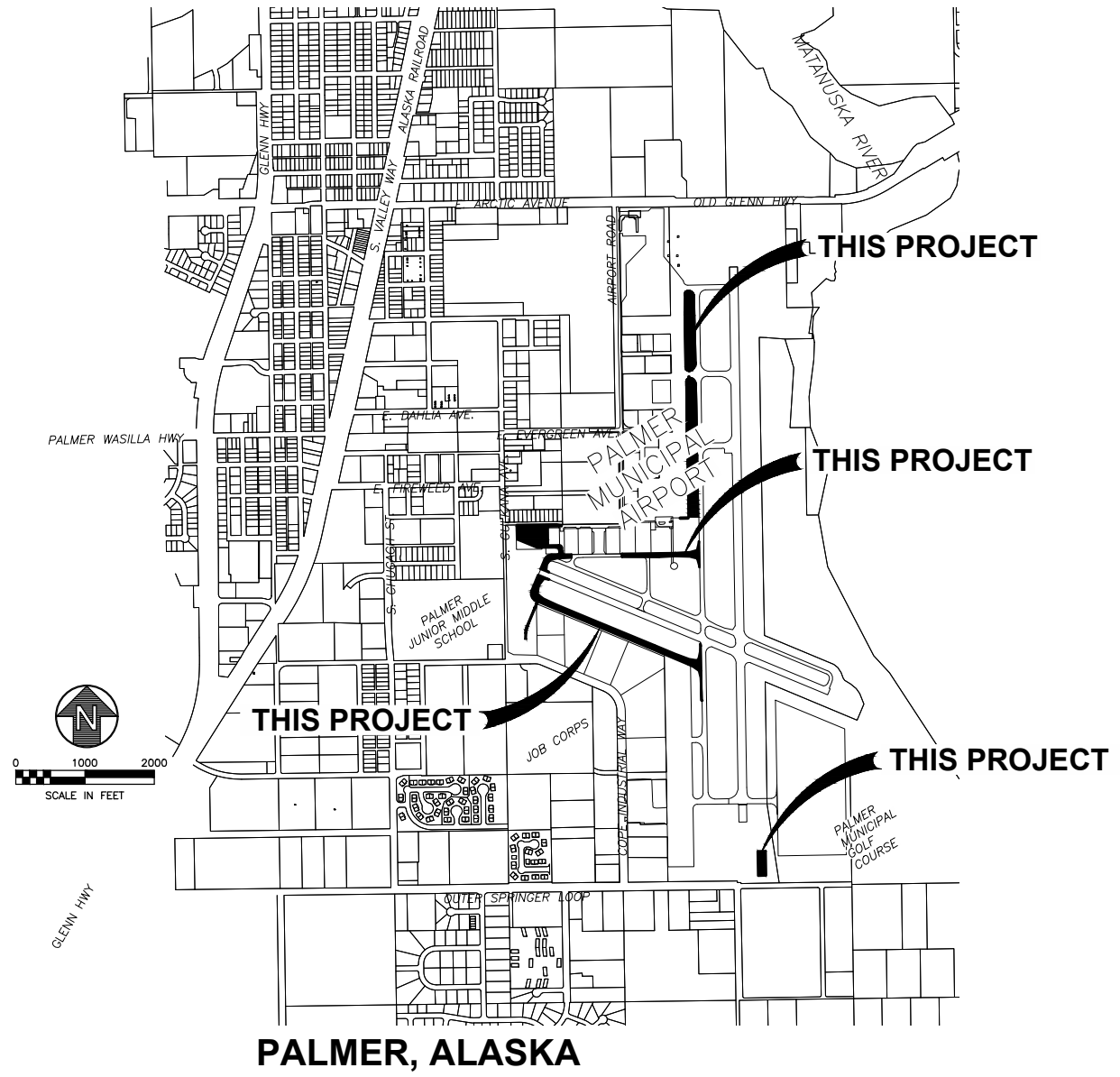
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E

AIP NO. 03-02-0211-030-2022
AIP NO. 03-02-0211-031-2022



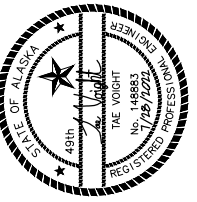
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE	
COVER SHEET AND DRAWING INDEX	
SHEET	
G1.01	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

PROJECT NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PALMER STANDARD SPECIFICATIONS FOR STREETS - DRAINAGE - UTILITIES - PARKS (DATED 2018) AND THE SPECIAL PROVISIONS PREPARED FOR THIS CONTRACT.
- OTHER CONTRACTORS OR THE UTILITY COMPANIES MAY BE WORKING ON THE SAME PROJECT SITE OR IN THE VICINITY DURING THE PROGRESS OF THIS CONTRACT'S WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS OR UTILITY COMPANIES WORKING AT OR NEAR THE AIRPORT.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS (OSHA), AND ALL OTHER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- THE CONTRACTOR SHALL PROVIDE ALL PERMITS WHICH ARE NOT SPECIFICALLY INDICATED AS PROVIDED BY THE OWNER IN THE SPECIAL PROVISIONS.
- ALL SURVEYING AND LAYOUT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL USE ONLY APPROVED ACCESS HAUL ROUTES AS SHOWN ON THE CONSTRUCTION SAFETY PHASING PLAN DRAWINGS. CONTRACTOR SHALL MAINTAIN HAUL ROUTES AND SHALL REPAIR ANY DAMAGE TO THE ROUTE SURFACE AS DIRECTED BY THE ENGINEER TO THE SATISFACTION OF THE CITY AT NO COST TO THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- EXISTING BURIED AND ABOVE GRADE UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED ON FIELD SURVEY AND RECORD INFORMATION AVAILABLE TO THE ENGINEER. NOT ALL UTILITY LOCATIONS HAVE BEEN FIELD VERIFIED AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. THE CONTRACTOR SHALL CONTACT THE LOCATE CALL CENTER OF ALASKA, AS WELL AS ANY NON-PARTICIPATING UTILITIES INCLUDING THE CITY OF PALMER PUBLIC WORKS, & FEDERAL AVIATION ADMINISTRATION, TO FIELD LOCATE ALL UTILITIES PRIOR TO DIGGING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DIGGING, OTHERWISE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ASSOCIATED WITH WORKING AROUND UTILITIES DIFFERENT THAN WHAT IS SHOWN ON THESE PLANS.
- EXISTING NAVAID AND TAXIWAY AND RUNWAY LIGHTING CIRCUITS MAY BE PRESENT IN EXCAVATION AND MAY NOT BE SHOWN ON THE PLANS. PROTECT EXISTING NAVAID AND TAXIWAY AND RUNWAY LIGHTS, AND THEIR RESPECTIVE CIRCUITS. ARRANGE LOCATES OF AIRPORT LIGHTING AND NAVAID CIRCUITS WITH CITY PUBLIC WORKS PERSONNEL PRIOR TO PERFORMING ANY EXCAVATION. PROTECT IN PLACE ALL SURFACE FACILITIES WITHIN AND ADJACENT TO THE WORK.
- THE ENGINEER MAY DIRECT THE CONTRACTOR IN WRITING TO REMOVE ADDITIONAL MATERIAL BEYOND THE LIMITS OF EXCAVATION IF IT IS DETERMINED TO BE IN THE BEST INTEREST OF THE OWNER. CONTRACTOR SHALL REMOVE SAID MATERIAL AND REPLACE WITH SUITABLE MATERIAL AT THE CONTRACT UNIT PRICE, IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES AND THE GENERAL REQUIREMENTS, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL ESTABLISH, PROVIDE, AND MAINTAIN AN EFFECTIVE QUALITY CONTROL PROGRAM IN ACCORDANCE WITH THE PROJECT MANUAL.

WORK SCHEDULES

- SCHEDULE A: CONSTRUCT TAXIWAY N, EXTEND TAXIWAY J AND REMOVE TAXIWAYS B & L
- SCHEDULE B: DRAINAGE IMPROVEMENTS
- SCHEDULE C: CONSTRUCT APRON E
- SCHEDULE D: REPLACE TAXIWAY J PAVEMENT
- SCHEDULE E: APRON E HEADBOLT HEATER OUTLETS

ABBREVIATIONS

CL	CENTERLINE
E	EASTING
ELEV	ELEVATION
FAA	FEDERAL AVIATION ADMINISTRATION
HMA	HOT MIX ASPHALT
MAX	MAXIMUM
ME	MATCH EXISTING
MIN	MINIMUM
N	NORTHING
NOTAM	NOTICE TO AIR MISSION
NTS	NOT TO SCALE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PG	PROFILE GRADE POINT
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
RW	RUNWAY
SHLD	SHOULDER
STA	STATION
TW	TAXIWAY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY

STATIONING LEGEND

"C"	CONSTRUCTION ACCESS ROAD
"RW16/34"	RUNWAY 16/34
"RW10/28"	RUNWAY 10/28
"TJ"	TAXIWAY J
"TN"	TAXIWAY N

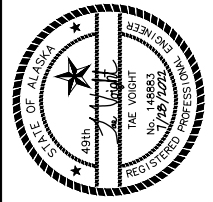
PHASING NOTES

- MAINTAIN TAXIWAY ACCESS TO WEST END OF RUNWAY 10/28; LIMIT ACCESS CLOSURE TO 14 DAYS.
- SEQUENCE WORK IN ACCORDANCE WITH THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) AND TO MAXIMIZE EFFICIENCY OF HAUL ROUTES ON THE AIRPORT AND REUSE OF MATERIALS. WHEN THESE GOALS CONFLICT SAFETY IS HIGHEST PRIORITY

LEGEND - CIVIL SHEETS

	BUILDING		NEW SLOPE
	POST/BOLLARD		GRADE TO DRAIN
	SIGN		NEW HMA PAVEMENT
	AIRPORT SIGN		NEW MILLINGS
	CARSONITE MARKER		NEW ACCESS ROAD GRAVEL
	ELECTRIC HANDHOLD		DRAINAGE CHAMBER
	ELECTRIC J-BOX		CUT LIMITS
	ELECTRIC LOAD CENTER		FILL LIMITS
	ELECTRIC VAULT		EXISTING PROPERTY LINE
	UTILITY POLE		CENTERLINE
	WATER WELL		NEW STORM DRAIN AND MANHOLE
	WATER MANHOLE		CLEARING LIMITS
	STORM DRAIN MANHOLE		VEHICLE ACCESS GATE
	STORM DRAIN MANHOLE FIELD INLET		NEW DITCH
	GATE POST		GRADE BREAK
	ANTENNA		RUNWAY SAFETY AREA
	VASI OR REIL		TAXIWAY SAFETY AREA
	AVIATION TIE-DOWN		HDL SOIL BORING
	RUNWAY/TAXIWAY/THRESHOLD LIGHT		
	WINDSOCK		
	SEGMENTED CIRCLE BARRICADE		
	EXISTING CONCRETE EDGE		
	EXISTING GRAVEL EDGE		
	EXISTING ASPHALT EDGE		
	CHAIN LINK FENCE		
	EXISTING ELECTRIC UNDERGROUND		
	OVERHEAD UTILITY LINE		
	TELECOMMUNICATIONS UNDERGROUND		
	FIBER OPTIC UNDERGROUND		
	NATURAL GAS UNDERGROUND		
	UNDERGROUND SANITARY SEWER LINE		
	UNDERGROUND STORM DRAIN LINE		
	UNDERGROUND WATER LINE		
	EXISTING CULVERT		
	NEW CULVERT		
	TREE EDGE		
	EXISTING MAJOR CONTOUR		
	EXISTING MINOR CONTOUR		
	PROPOSED MAJOR CONTOUR		
	PROPOSED MINOR CONTOUR		

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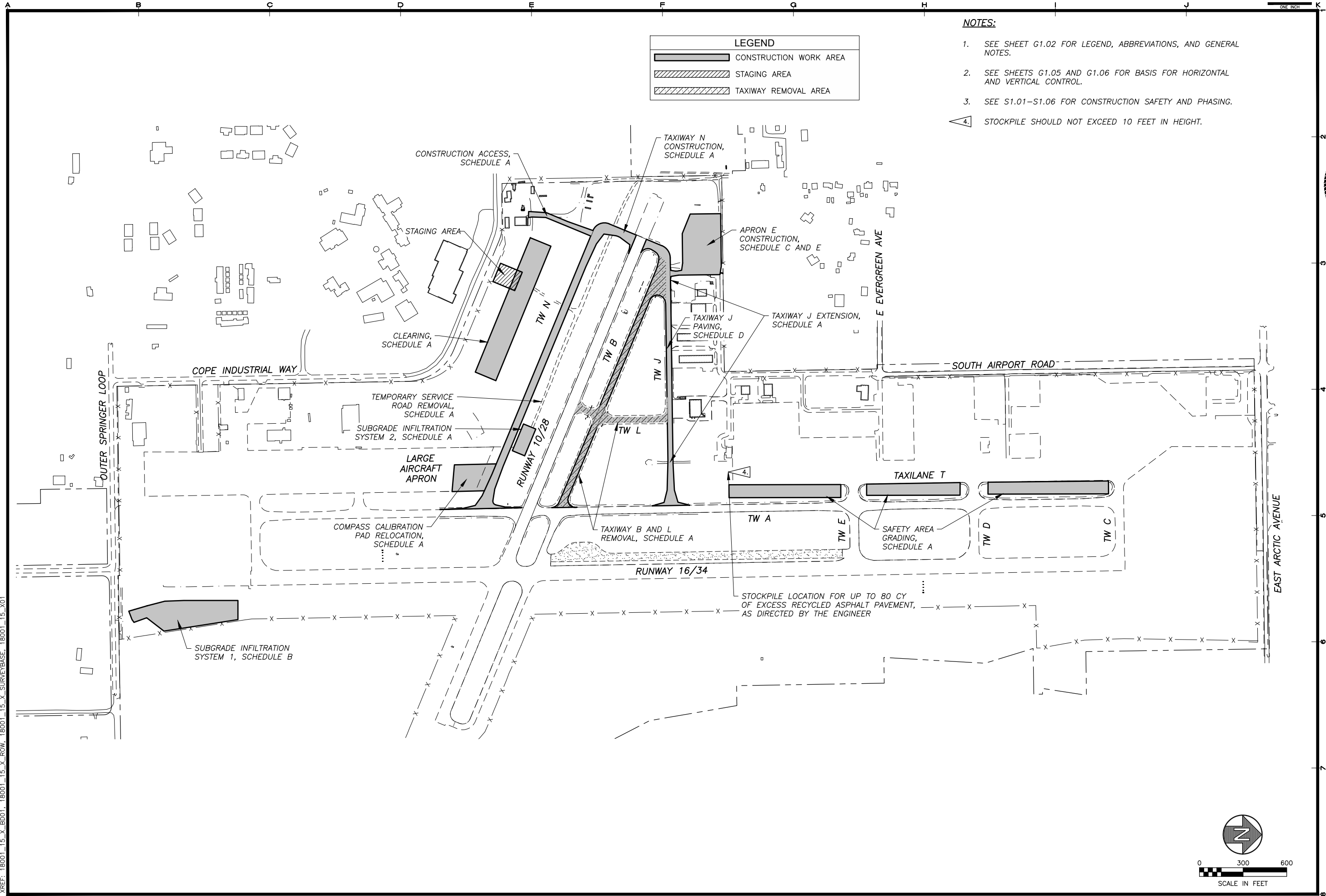
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PROJECT NOTES, ABBREVIATIONS AND LEGEND	
SHEET G1.02	
DRAWN BY: CDB	CHECKED BY: DWL
DATE: JULY 2022	SCALE: NONE
JOB NUMBER: 18-001-15	

CALL BEFORE YOU DIG!
 THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION
 LOCATE CALL CENTER OF ALASKA 1-800-478-3121
 CITY OF PALMER PUBLIC WORKS 745-3400

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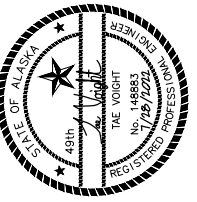
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 VIEW: G103_H_PDF
 XREF: 18001_15_X_ROW, 18001_15_X_BD01, 18001_15_X_SURVEYBASE, 18001_15_X01



LEGEND	
	CONSTRUCTION WORK AREA
	STAGING AREA
	TAXIWAY REMOVAL AREA

- NOTES:**
- SEE SHEET G1.02 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEETS G1.05 AND G1.06 FOR BASIS FOR HORIZONTAL AND VERTICAL CONTROL.
 - SEE S1.01-S1.06 FOR CONSTRUCTION SAFETY AND PHASING.
- STOCKPILE SHOULD NOT EXCEED 10 FEET IN HEIGHT.

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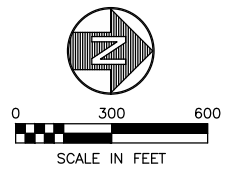
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PROJECT LAYOUT PLAN

SHEET
G1.03

DRAWN BY: CDB
 CHECKED BY: DWL

DATE: JULY 2022
 SCALE: AS NOTED

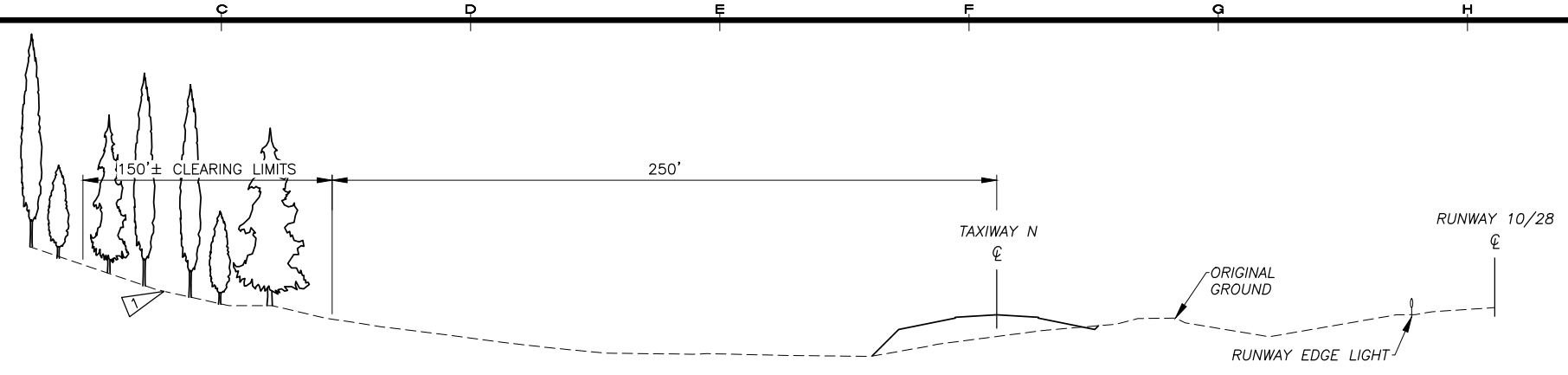
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 VIEW: G103_H_PDF
 XREF: 18001_15_X_XO1, 18001_15_X_BD01, 18001_15_X_E-HATCH, 18001_15_X_IMAGE, 18001_15_X_ROW, 18001_15_X_SURVEYBASE, 18001_15_XO1, 18001_15_X_SURVEYBASE-ADD, 18001_15_XO1, 18001_15_XIMAGE-2021



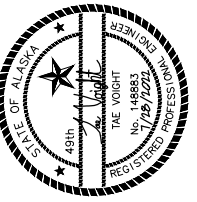
A SITE SECTION
 G1.04 SCALE: NONE



NOTE:
 1 CLEARING TO INCLUDE REMOVAL OF STUMPS, PER SPECIFICATION P-151.

CLEARING LIMITS TABLE		
POINT #	NORTHING	EASTING
50	58972.01	39414.21
51	59217.06	38822.72
52	59237.51	38831.47
53	59291.17	38678.73
54	59278.64	38674.07
55	59354.02	38492.14
56	59509.61	38505.73
57	59113.59	39473.02

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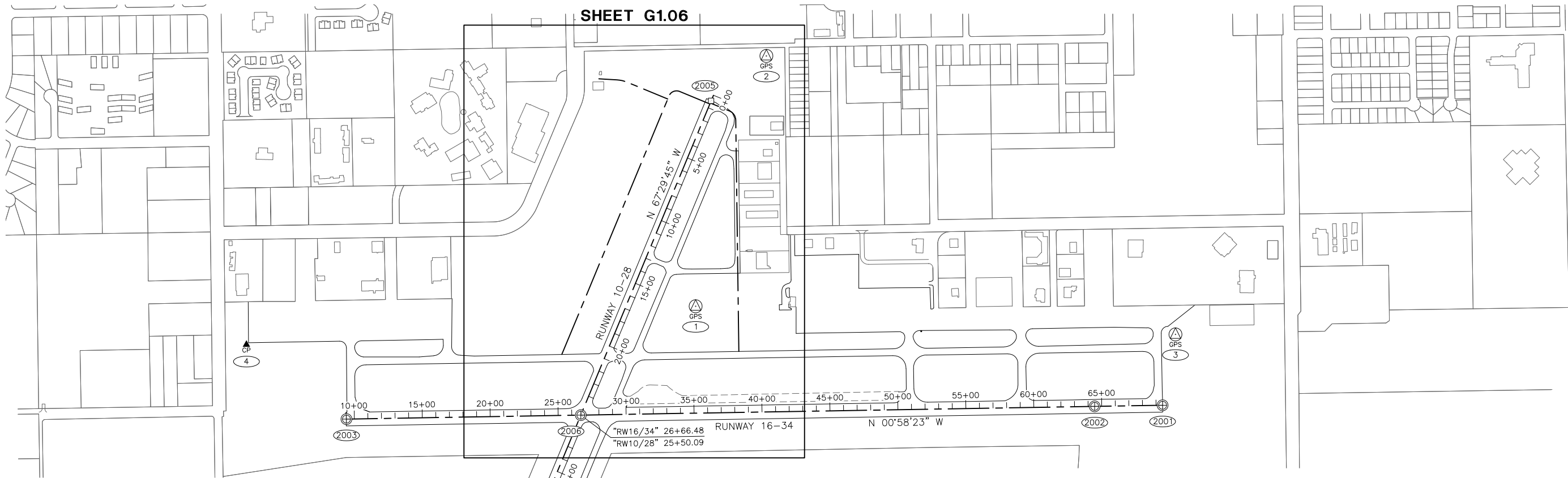


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SHEET TITLE: **CLEARING PLAN**
 SHEET: **G1.04**
 DRAWN BY: **CDB** CHECKED BY: **DWL**
 DATE: **JULY 2022** SCALE: **AS NOTED**
 JOB NUMBER: **18-001-15**

SHEET G1.06



RUNWAY 16-34 COORDINATES

POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
2003	9+42.13	0.00	57430.7465	40831.0477	RUNWAY END 34
2006	26+66.48	0.00	59154.8429	40801.7606	RUNWAY INTER-X
2002	64+47.82	0.00	62935.6418	40737.5365	DISPLACED THRESHOLD
2001	69+47.66	0.00	63435.4049	40729.0471	RUNWAY END 16

RUNWAY 10-28 COORDINATES

POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
2005	0+44.39	0.00	60113.9005	38486.8643	RUNWAY END 10
2004	36+60.70	0.00	58729.7573	41827.7980	RUNWAY END 28

CONTROL MONUMENTS RUNWAY 16-34 STATIONING

POINT	STATION	OFFSET	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	DESCRIPTION
1	35+25.13	787.29 LT.	60000.0000	40000.0000	61°35'40.6273"NORTH	149°05'31.0642"WEST	233.08	FOUND BRASS CAP MONUMENT
2	40+76.37	2621.73 LT.	60520.0042	38156.4585	61°35'45.9986"NORTH	149°06'09.0128"WEST	236.27	FOUND BRASS CAP MONUMENT
3	70+51.48	520.12 LT.	63530.3745	40207.2410	61°36'15.3568"NORTH	149°05'25.7628"WEST	250.59	FOUND BRASS CAP MONUMENT
4	2+15.46	561.03 LT.	56694.6459	40282.4378	61°35'08.0459"NORTH	149°05'26.1813"WEST	221.23	SET ALUMINUM CAP ON REBAR

VERTICAL CONTROL

THE VERTICAL DATUM FOR THIS SURVEY IS A NAVD 88 (GEOD 12B) ORTHOMETRIC HEIGHT. THE BASIS OF VERTICAL CONTROL IS STATION "PAQ-D" (POINT NO. 1) WITH AN ELEVATION OF 233.08 FEET. ALL LEVEL RUNS CLOSED WITHIN THIRD ORDER SPECIFICATIONS. LEICA DNA10 DIGITAL LEVELS AND LEICA GEO OFFICE SOFTWARE WAS USED TO PROCESS THE ELEVATIONS.

NOTES

- ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
- BACKGROUND INFORMATION IS SHOWN FOR ORIENTATION PURPOSES ONLY.
- THE FIELD SURVEY WAS PERFORMED BY HDL ENGINEERING CONSULTANTS OCTOBER 14, 2021 THROUGH FEBRUARY 03, 2022, FIELD SURVEY INFORMATION FOR THIS PROJECT IS LOCATED IN HDL FIELD BOOK NO. 18-001, BOOK 1 PAGES 18 THROUGH 62.
- VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE. ON MULTI YEAR PROJECTS, VERIFY ALL CONTROL ON A SEASONAL BASIS.

WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).

HORIZONTAL CONTROL

HORIZONTAL CONTROL STATEMENT:
THE BASIS OF CONTROL FOR THIS PROJECT IS FROM THE PALMER MUNICIPAL AIRPORT (PAQ) AERONAUTICAL SURVEY 2016. THE BASIS OF GEODETIC COORDINATES IS STATION "PAQ-D" (POINT NO. 1), A 3-1/4" BRASS DONUT ON A 9/16 STAINLESS STEEL ROD INSIDE A MONUMENT CASE WITH THE FOLLOWING VALUES:

NAD 83 (2011) (EPOCH 2010.0000) GEODETIC COORDINATES:
LATITUDE: 61 DEGREES 35 MINUTES 40.62733 SECONDS NORTH
LONGITUDE: 149 DEGREES 05 MINUTES 31.06417 SECONDS WEST

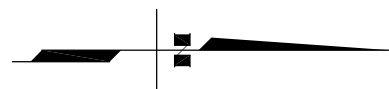
ALASKA STATE PLANE ZONE 4, NAD 83 (2011) COORDINATES, U.S. SURVEY FEET:
NORTHING: 2,775,879.2879 EASTING: 1,798,568.0181

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE PAQ 2016 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM EXPRESSED IN U.S. FEET UNITS DEVELOPED BY THE HDL ENGINEERING CONSULTANTS SURVEY DEPARTMENT FOR THE PALMER AIRPORT.

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS STATION "PAQ-D" (POINT NO. 1). SAID STATION HAS PAQ 2016 COORDINATES OF 60,000.0000 N, 40,000.0000 E.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS IS ALASKA STATE PLANE ZONE 4, NAD 83 (2011) FROM GPS OBSERVATIONS.

TRANSLATION PARAMETERS:
TO CONVERT LOCAL COORDINATES TO NAD83 (2011) STATE PLANE COORDINATES EXPRESSED IN U.S. SURVEY FEET, TRANSLATE USING +2,716,113.4048 N., +1,758,719.7088 E., AND SCALE USING 0.9999156674.



U.S. SURVEY FEET

LEGEND

- FOUND GPS CONTROL POINT
- SET CONTROL POINT
- CENTERLINE MONUMENT
- COMPUTED POINT, NOTHING SET
- SURVEY POINT NUMBER

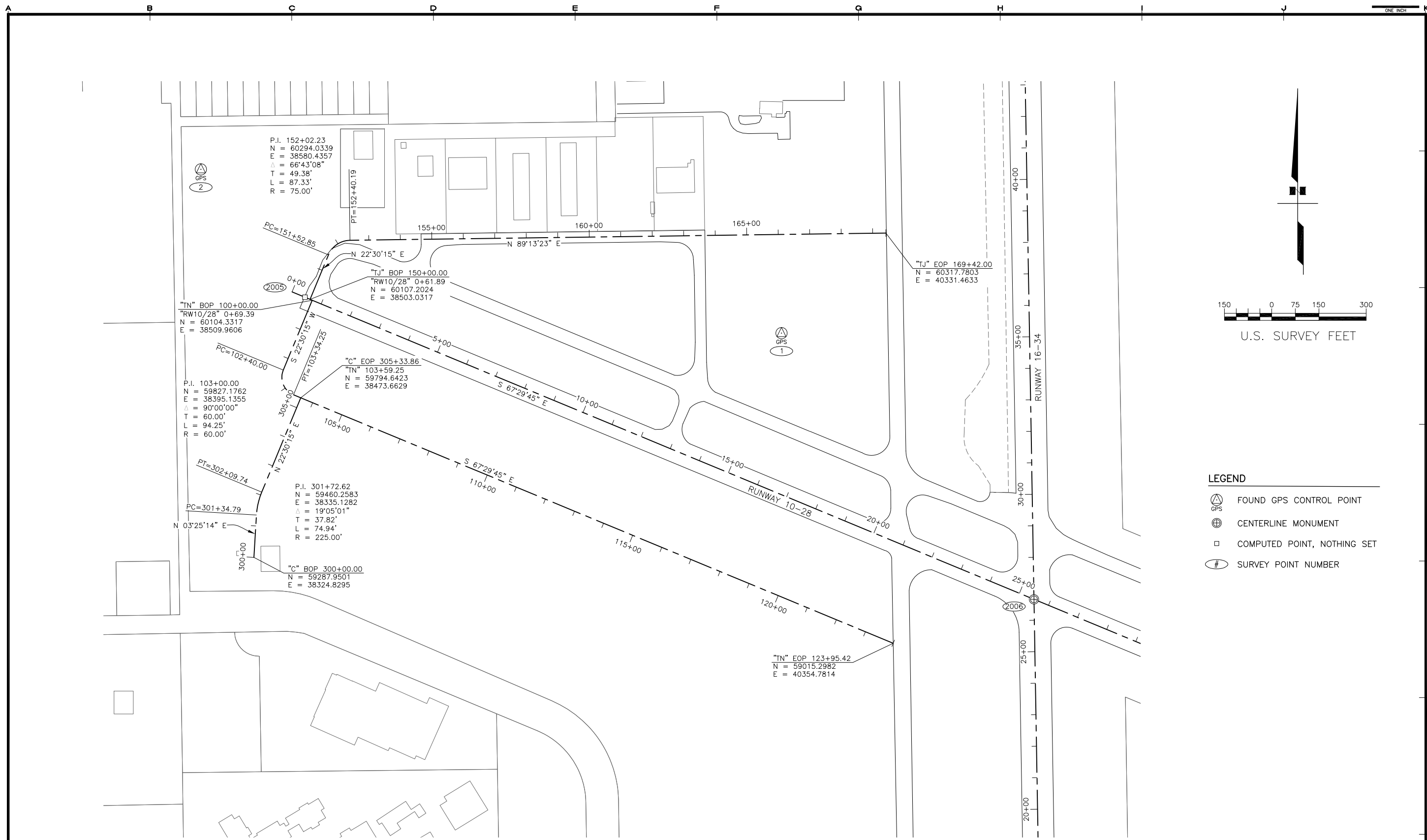
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
SURVEY CONTROL SHEET	
SHEET	
G1.05	
DRAWN BY	CHECKED BY
JJK	JJZ
DATE	SCALE
JULY 2022	1"=400'
JOB NUMBER	
18-001-15	



P.I. 152+02.23
 N = 60294.0339
 E = 38580.4357
 Δ = 66°43'08"
 T = 49.38'
 L = 87.33'
 R = 75.00'

"TN" BOP 100+00.00
 "RW10/28" 0+69.39
 N = 60104.3317
 E = 38509.9606

P.I. 103+00.00
 N = 59827.1762
 E = 38395.1355
 Δ = 90°00'00"
 T = 60.00'
 L = 94.25'
 R = 60.00'

P.I. 301+72.62
 N = 59460.2583
 E = 38335.1282
 Δ = 19°05'01"
 T = 37.82'
 L = 74.94'
 R = 225.00'

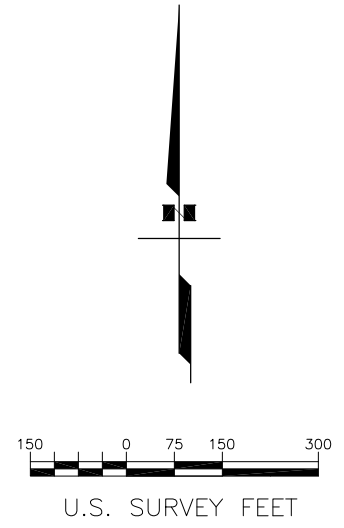
"C" BOP 300+00.00
 N = 59287.9501
 E = 38324.8295

"TJ" BOP 150+00.00
 "RW10/28" 0+61.89
 N = 60107.2024
 E = 38503.0317

"C" EOP 305+33.86
 "TN" 103+59.25
 N = 59794.6423
 E = 38473.6629

"TJ" EOP 169+42.00
 N = 60317.7803
 E = 40331.4633

"TN" EOP 123+95.42
 N = 59015.2982
 E = 40354.7814



- LEGEND**
- FOUND GPS CONTROL POINT
 - CENTERLINE MONUMENT
 - COMPUTED POINT, NOTHING SET
 - SURVEY POINT NUMBER

WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).

NOTE
 1. SEE SHEET G1.05 FOR NOTES AND CONTROL INFORMATION.

REVISIONS	MARK	DATE	DESCRIPTION
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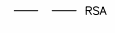

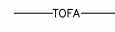
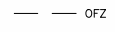
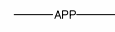


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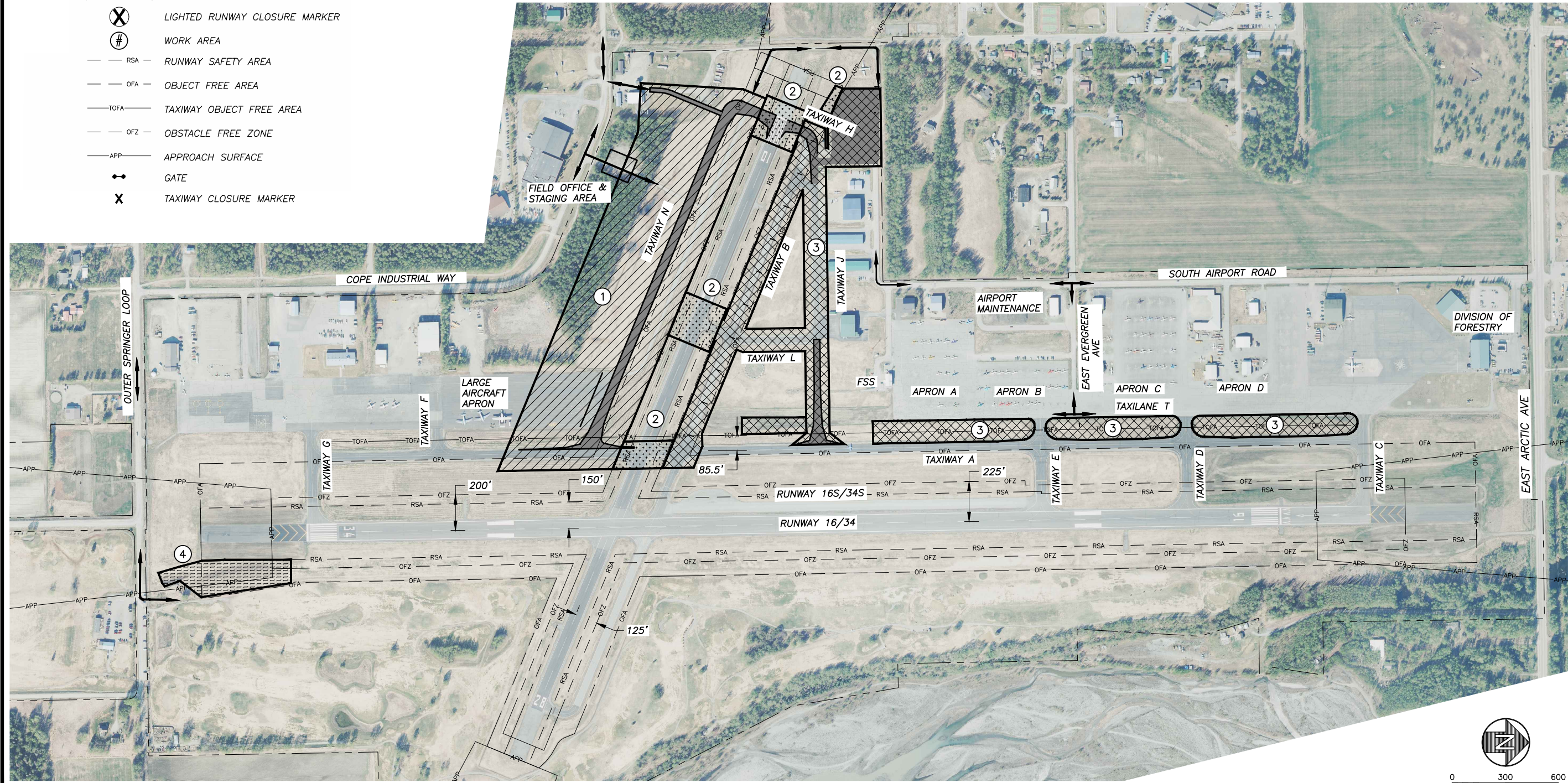
SHEET TITLE SURVEY CONTROL SHEET	
SHEET G1.06	
DRAWN BY JJK	CHECKED BY JJZ
DATE JULY 2022	SCALE 1"=150'
JOB NUMBER 18-001-15	

WORK AREA RESTRICTIONS

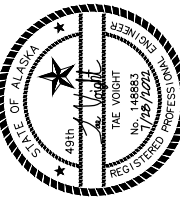
- SEE SHEET S1.02-S1.04 FOR SPECIFIC WORK AREA RESTRICTIONS.
- SEE SHEET S1.06 FOR GENERAL SAFETY REQUIREMENTS.

LEGEND

-  ACCESS ROUTE
-  WORK AREA 1
-  WORK AREA 2
-  WORK AREA 3
-  WORK AREA 4
-  PROPOSED PAVEMENT
-  LIGHTED RUNWAY CLOSURE MARKER
-  WORK AREA
-  RSA - RUNWAY SAFETY AREA
-  OFA - OBJECT FREE AREA
-  TOFA - TAXIWAY OBJECT FREE AREA
-  OFZ - OBSTACLE FREE ZONE
-  APP - APPROACH SURFACE
-  GATE
-  TAXIWAY CLOSURE MARKER



REVISIONS MARK	DATE	DESCRIPTION
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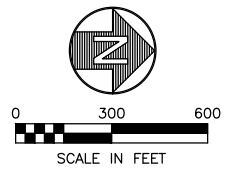
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SHEET TITLE
CSPP WORK AREA OVERALL

SHEET
S1.01

DRAWN BY: TCV CHECKED BY: TJSA
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15



H:\jobs\18-001 Palmer Airport Term (COP)\15 Taxiway N Design\CAD\Drawings\18001_15_S101_1=30_07-15-22 at 14:32 by tlc
 LAYOUT: S1_01
 VIEW: C01_F_D0800
 XREF: 16034_05_X_BD01

WORK AREA RESTRICTIONS

WORK AREA 1

1. WORK IN THIS AREA IS PERMITTED 6AM TO 10PM, MONDAY-SATURDAY. SUBMIT SAFETY PLAN COMPLIANCE DOCUMENT TO THE ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION. CONTRACTOR SHALL CLEARLY IDENTIFY THE LIMIT OF THE RUNWAY SAFETY AREA ADJACENT TO THE WORK IN ACCORDANCE WITH DETAIL 7 S1.05.
2. TAXIWAY VISUAL AIDS ARE PERMITTED TO HAVE OUTAGES DURING DAYLIGHT HOURS. SEE GENERAL SAFETY REQUIREMENTS ON SHEET S1.06 REGARDING OUTAGES FOR VISUAL AIDS.
3. COORDINATE START DATE OF WORK IN THIS AREA WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO STARTING WORK.
4. CONTRACTOR SHALL CLEARLY IDENTIFY ACTIVE APRON AREA LOCATIONS IN ACCORDANCE WITH DETAIL 7 S1.05.
5. CONTRACTOR SHALL NOT CROSS RUNWAY 10/28 UNLESS AUTHORIZED BY THE ENGINEER.
6. HAUL ROUTE CROSSES RUNWAY 10/28 APPROACH SURFACE. A FLAGGER SHALL BE PLACED ON THE HAUL ROUTE ON THE WEST END OF RUNWAY 10/28 TO MONITOR CTAF RADIO. FLAGGER SHALL NOTIFY TRUCKS BY NON-CTAF RADIO TO STOP AT HOLD POSITION. THE FLAGGER SHALL HOLD TRAFFIC AT LOCATIONS SHOWN WHEN AIRCRAFT IS ON FINAL APPROACH OR ON THE RUNWAY PREPARING TO DEPART AND UNTIL RUNWAY AND HAUL ROUTE ARE CLEAR OF AIRCRAFT OPERATIONS. MARK HOLD POINTS FOR TRUCKS ON THE HAUL ROUTE.
7. TEMPORARY MARKINGS SHALL BE APPLIED BEFORE OPENING TAXIWAYS.
8. TAXIWAY A, BETWEEN TAXIWAY F AND RUNWAY 10/28, SHALL ONLY BE CLOSED WHEN WORK IS OCCURRING WITHIN TAXIWAY A TOFA.

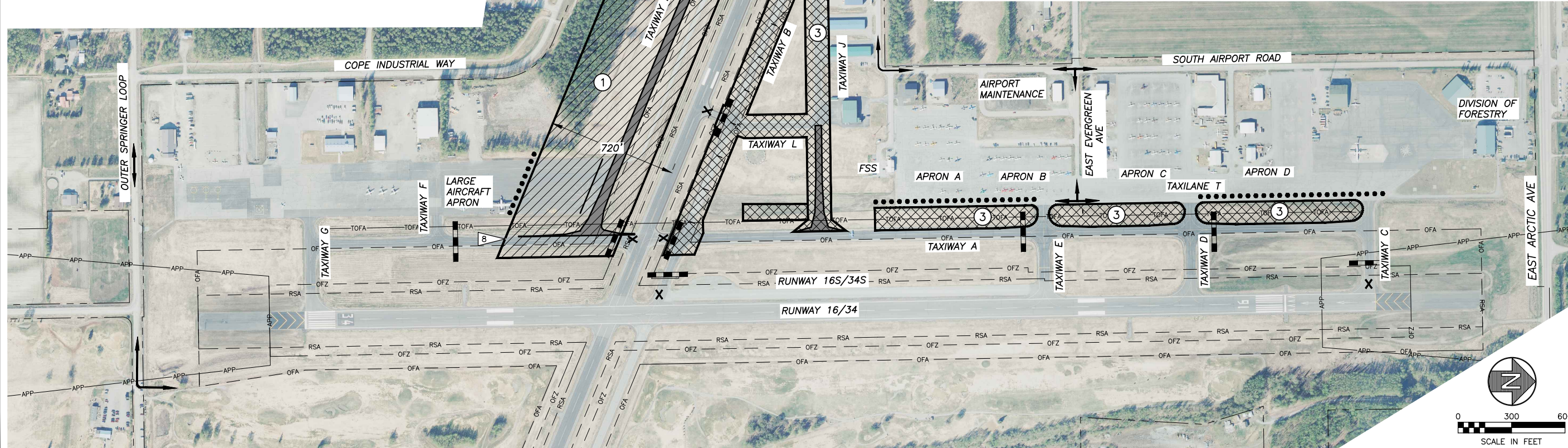
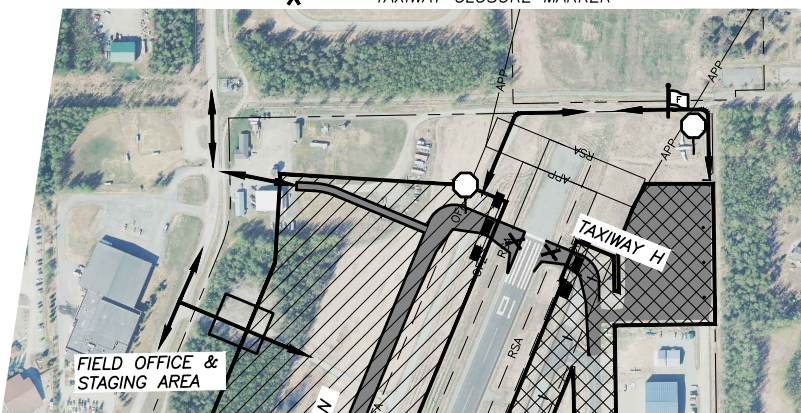
LEGEND

- ACCESS ROUTE
- TEMPORARY EDGE MARKER
- ▨ WORK AREA 1
- ▩ WORK AREA 3
- PROPOSED PAVEMENT
- ⊕ WORK AREA
- RSA --- RUNWAY SAFETY AREA
- OFA --- OBJECT FREE AREA
- TOFA --- TAXIWAY OBJECT FREE AREA
- OFZ --- OBSTACLE FREE ZONE
- APP --- APPROACH SURFACE
- GATE
- ▬ LOW PROFILE BARRICADES
- ⚠ FLAGGER
- ⊕ HOLD POSITION
- X TAXIWAY CLOSURE MARKER

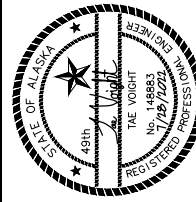
WORK AREA RESTRICTIONS

WORK AREA 3

1. WORK IN THIS AREA IS PERMITTED 6AM TO 10PM, MONDAY-SATURDAY. SUBMIT SAFETY PLAN COMPLIANCE DOCUMENT TO THE ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION. CONTRACTOR SHALL CLEARLY IDENTIFY THE LIMIT OF RUNWAY AND TAXIWAY SAFETY AREAS ADJACENT TO THE WORK IN ACCORDANCE WITH DETAIL 7 S1.05.
2. TAXIWAY VISUAL AIDS ARE PERMITTED TO HAVE OUTAGES DURING DAYLIGHT HOURS. SEE GENERAL SAFETY REQUIREMENTS ON SHEET S1.06 REGARDING OUTAGES FOR VISUAL AIDS.
3. COORDINATE START DATE OF WORK IN THIS AREA WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO STARTING WORK.
4. COORDINATE CLOSURES SUCH THAT ONE OR MORE TAXIWAYS A, B, L, AND H IS AVAILABLE AT ALL TIMES FOR ACCESS BETWEEN RUNWAY 10/28 AND LEASE LOTS ALONG TAXIWAY J.
5. TAXIWAY A, BETWEEN TAXIWAY C AND RUNWAY 10/28, SHALL ONLY BE CLOSED WHEN WORK IS OCCURRING WITHIN TAXIWAY A TOFA.
6. COORDINATE CLOSURES SUCH THAT ONE OR MORE OF TAXIWAYS C, D, AND E IS AVAILABLE AT ALL TIMES FOR ACCESS BETWEEN RUNWAY 16/34 AND APRONS A, B, C, D AND DIVISION OF FORESTRY. TYPICAL CLOSURE LAYOUT SHOWN, OTHER LAYOUTS SIMILAR AND NOT SHOWN FOR CLARITY.
7. COORDINATE CLOSURES SUCH THAT ONE OF TAXIWAY B OR E IS AVAILABLE AT ALL TIMES FOR ACCESS RUNWAY 16S/34S. KEEP BOTH E AND B OPEN TO THE GREATEST EXTENT POSSIBLE.
8. CONTRACTOR SHALL CLEARLY DELINEATE ACTIVE APRON AREA LOCATIONS IN ACCORDANCE WITH DETAIL 7 ON S1.05.
9. CONTRACTOR SHALL NOT CROSS RUNWAY 10/28 UNLESS AUTHORIZED BY THE ENGINEER.
10. MAINTAIN AIRCRAFT ACCESS BETWEEN APRONS, LEASE LOTS, AND RUNWAYS.
11. PLACE BARRICADES AND MARKERS SEPARATING THE WORK AREA FROM ACTIVE PORTIONS OF TAXIWAYS AND RUNWAYS TO PREVENT AIRCRAFT FROM ENTERING CONSTRUCTION AREA.
12. HAUL ROUTE CROSSES RUNWAY 10/28 APPROACH SURFACE. A FLAGGER SHALL BE PLACED ON THE HAUL ROUTE ON THE WEST END OF RUNWAY 10/28 TO MONITOR CTAF RADIO. FLAGGER SHALL NOTIFY TRUCKS BY NON-CTAF RADIO TO STOP AT HOLD POSITION. THE FLAGGER SHALL HOLD TRAFFIC AT LOCATIONS SHOWN WHEN AIRCRAFT IS ON FINAL APPROACH OR ON THE RUNWAY PREPARING TO DEPART AND UNTIL RUNWAY AND HAUL ROUTE ARE CLEAR OF AIRCRAFT OPERATIONS. MARK HOLD POINTS FOR TRUCKS ON THE HAUL ROUTE.
13. TEMPORARY MARKINGS SHALL BE APPLIED BEFORE OPENING TAXIWAYS.



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SHEET TITLE
CSPP WORK AREA 1 AND 3

SHEET
S1.02

DRAWN BY: TCV CHECKED BY: TJSA
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

H:\jobs\18-001 Palmer Airport Term (COP)\15 Taxiway N Design\CAD\Drawings\18001_15_S101_1=30_07-15-22 at 14:32 by tlc
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 VIEW: C01_F_D0800
 XREF: 16034_05_X_BD01

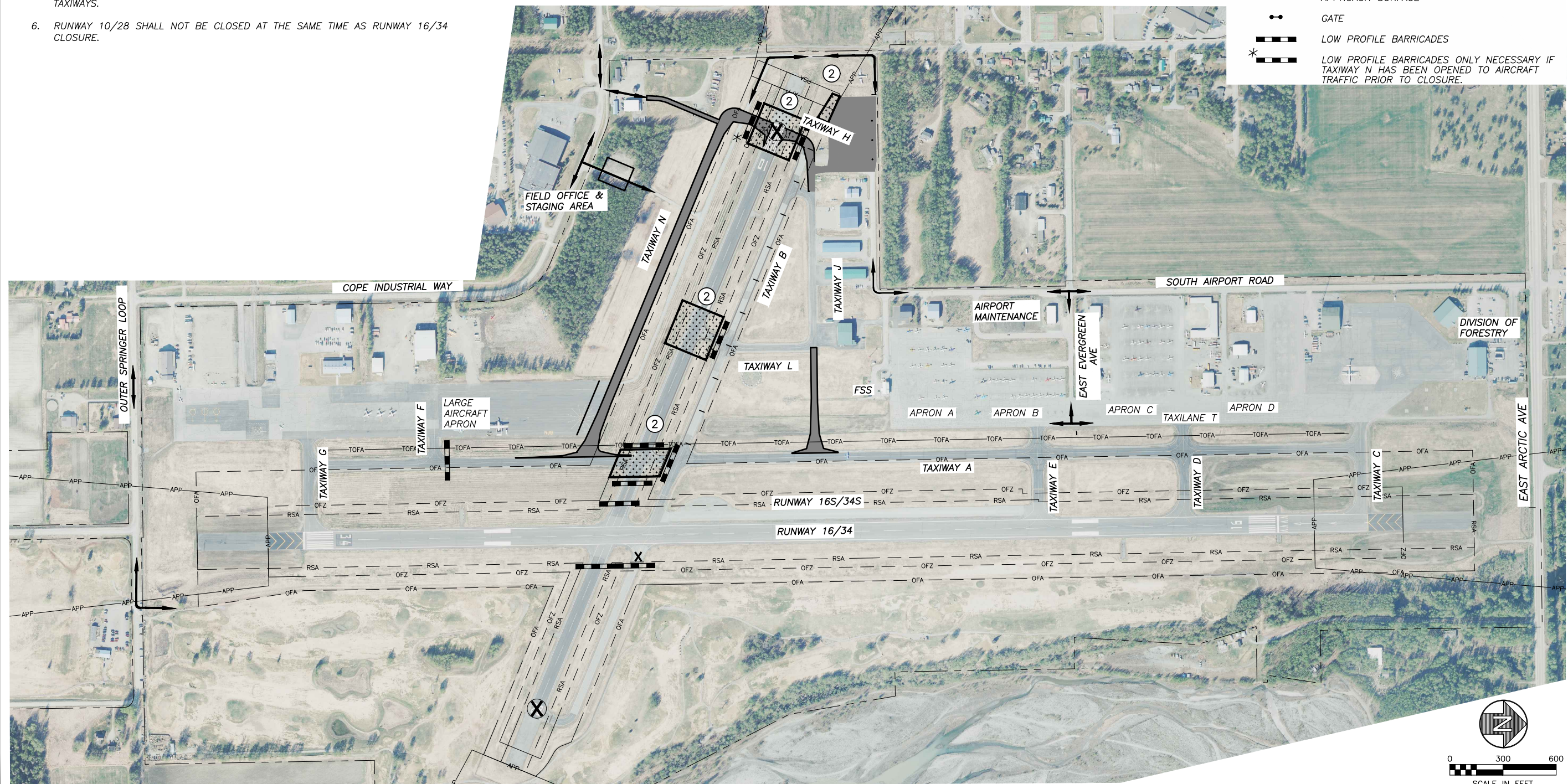
WORK AREA RESTRICTIONS

WORK AREA 2

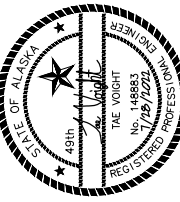
1. RUNWAY 10/28 SHALL BE CLOSED DURING WORK IN THIS WORK AREA. RUNWAY CLOSURE IS PERMITTED 24 HOURS A DAY ON ALL DAYS OF THE WEEK. CLOSURES SHALL BE PERMITTED FOR A MAXIMUM OF 14 DAYS TOTAL AND CLOSURES THAT ARE LESS THAN 24 HOURS IN DURATION SHALL BE COUNTED AS A ONE DAY CLOSURE. CLOSURES ARE PERMITTED TO BE DISCONTINUOUS. SUBMIT SAFETY PLAN COMPLIANCE DOCUMENT TO THE ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION. WORK IN WORK AREA 2 INCLUDES CONSTRUCTION OF RUNWAY INTERSECTION WITH TAXIWAY A, H, J, L, AND N.
2. DEACTIVATE VISUAL AIDS FOR RUNWAY 10/28 AND TAXIWAYS IN WORK AREA 2 DURING CLOSURE. SEE GENERAL SAFETY REQUIREMENTS ON SHEET S1.06 REGARDING OUTAGES FOR VISUAL AIDS.
3. COORDINATE START DATE OF WORK IN THIS AREA WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO STARTING WORK.
4. WHEN WORKING IN THIS AREA FOLLOW RUNWAY AND TAXIWAY STATUS CHANGE PROCEDURES ON SHEET S1.06 TO CLOSE RUNWAY 10/28.
5. TEMPORARY MARKINGS SHALL BE APPLIED BEFORE OPENING RUNWAY AND TAXIWAYS.
6. RUNWAY 10/28 SHALL NOT BE CLOSED AT THE SAME TIME AS RUNWAY 16/34 CLOSURE.

LEGEND

- ACCESS ROUTE
- TEMPORARY EDGE MARKER
- ▨ WORK AREA 2
- ▩ PROPOSED PAVEMENT
- # WORK AREA
- ⊗ LIGHTED RUNWAY CLOSURE MARKER
- RSA --- RUNWAY SAFETY AREA
- OFA --- OBJECT FREE AREA
- TOFA --- TAXIWAY OBJECT FREE AREA
- OFZ --- OBSTACLE FREE ZONE
- APP --- APPROACH SURFACE
- GATE
- ▬▬▬ LOW PROFILE BARRICADES
- * ▬▬▬ LOW PROFILE BARRICADES ONLY NECESSARY IF TAXIWAY N HAS BEEN OPENED TO AIRCRAFT TRAFFIC PRIOR TO CLOSURE.



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SHEET TITLE	
CSPP WORK AREA 2	
SHEET	
S1.03	
DRAWN BY	CHECKED BY
TCV	TJSA
DATE	SCALE
JULY 2022	AS NOTED
JOB NUMBER	
18-001-15	

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 VIEW: 001_F_D0800
 XREF: 16034_05_X_BD01

WORK AREA RESTRICTIONS

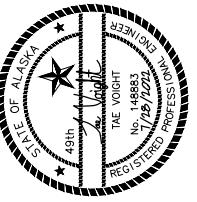
WORK AREA 4

1. WORK IN THIS AREA IS PERMITTED 6AM TO 10PM, MONDAY-SATURDAY UNLESS NOTED OTHERWISE. SUBMIT SAFETY PLAN COMPLIANCE DOCUMENT TO THE ENGINEER FOR APPROVAL PRIOR TO MOBILIZATION.
2. WHEN EQUIPMENT WILL PENETRATE THE APPROACH SURFACE, AS SHOWN ON DETAIL 2 S1.06, CLOSE RUNWAY 16/34. FOLLOW RUNWAY AND TAXIWAY STATUS CHANGE PROCEDURES ON S1.06 TO CLOSE RUNWAY 16/34. CLOSURE OF RUNWAY 16/34 IS LIMITED TO 10PM TO 6AM FOR A TOTAL OF 14 NIGHTS.
3. COORDINATE START DATE OF WORK IN THIS AREA WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO STARTING WORK.
4. WHEN WORKING IN THIS AREA, DO NOT INTERFERE WITH AIR OPERATIONS.
5. RUNWAY 16/34 SHALL NOT BE CLOSED AT THE SAME TIME AS RUNWAY 10/28.

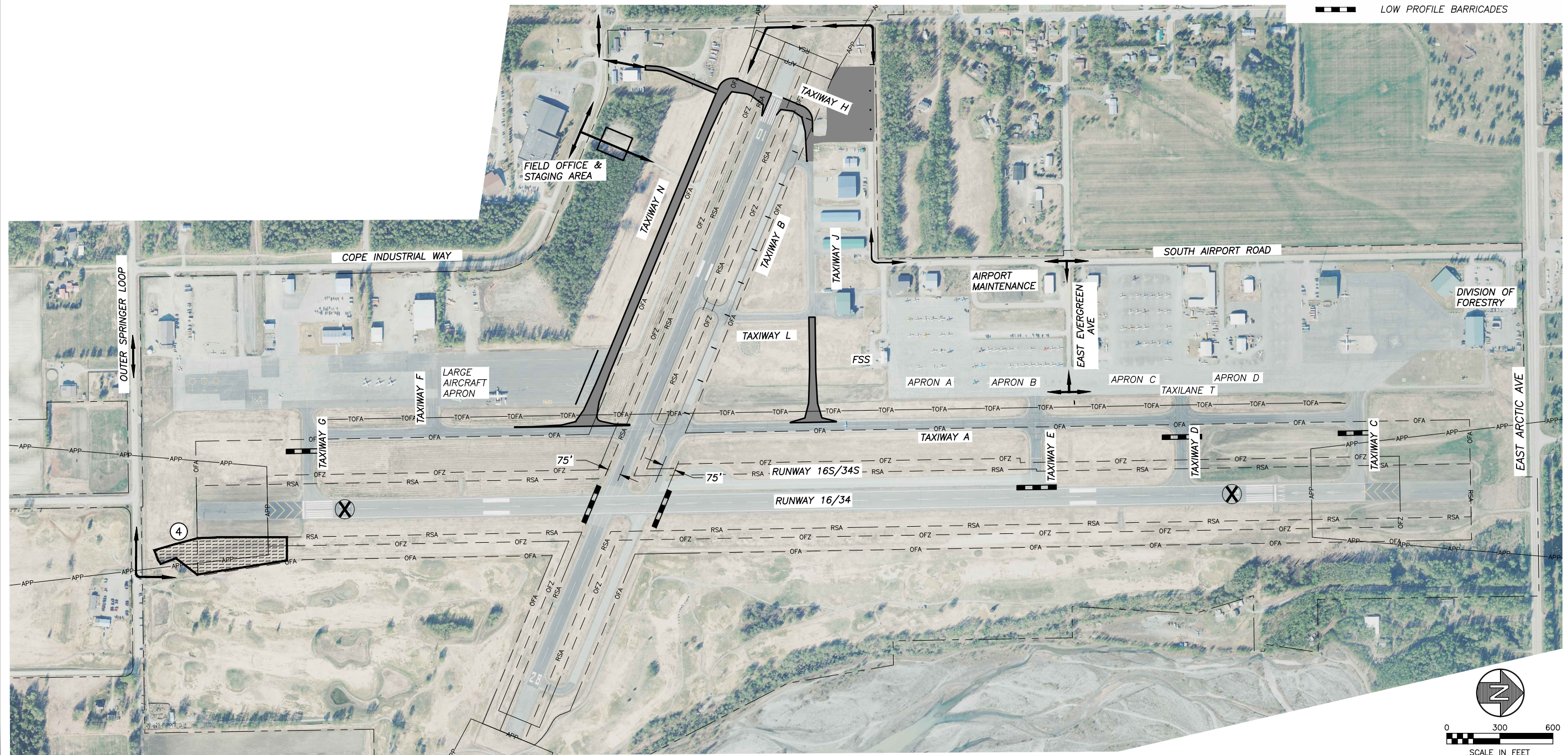
LEGEND

- ACCESS ROUTE
- TEMPORARY EDGE MARKER
- ▨ WORK AREA 4
- ▩ PROPOSED PAVEMENT
- ⊕ WORK AREA
- ⊗ LIGHTED RUNWAY CLOSURE MARKER
- RSA --- RUNWAY SAFETY AREA
- OFA --- OBJECT FREE AREA
- TOFA --- TAXIWAY OBJECT FREE AREA
- OFZ --- OBSTACLE FREE ZONE
- APP --- APPROACH SURFACE
- GATE
- ▬▬▬ LOW PROFILE BARRICADES

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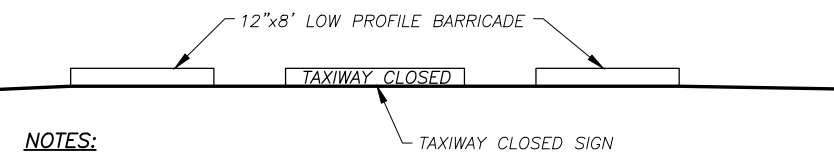


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SHEET TITLE	
CSPP WORK AREA 4	
SHEET	
S1.04	
DRAWN BY:	CHECKED BY:
TCV	TJSA
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

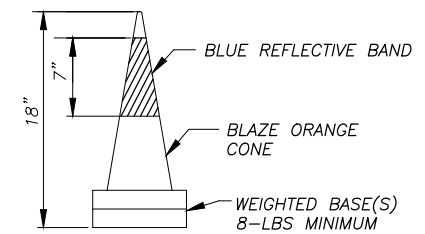
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 LAYOUT: S1_04
 VIEW: C01_F_D0800
 XREF: 16034_05_X_BD01

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 LAYOUT: S1.04
 VIEW: 001_F_D0800
 XREF: 16034_05_BD01



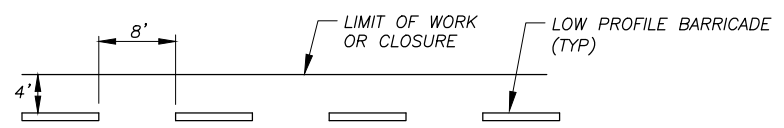
- NOTES:**
- REFLECTIVE "TAXIWAY CLOSED" SIGNS WITH 10-INCH REFLECTIVE LETTERING SHALL BE PLACED AT EACH TAXIWAY ABUTTING THE ACTIVE CONSTRUCTION AREA. SIGNS SHALL BE ANCHORED OR WEIGHTED TO PREVENT MOVEMENT FROM HIGH WINDS OR PROPELLER BLAST. SIGNS SHALL EXTEND NO MORE THAN 12 INCHES ABOVE THE RUNWAY SURFACE.
 - SIGNS AND LOW PROFILE BARRICADES SHALL BE SPACED PER DETAIL 7 S1.05.

1 TAXIWAY BARRICADE DETAIL
 S1.05 SCALE: NONE

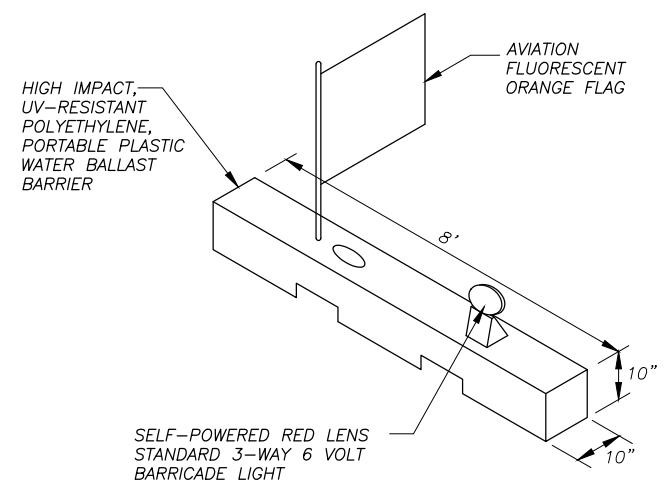
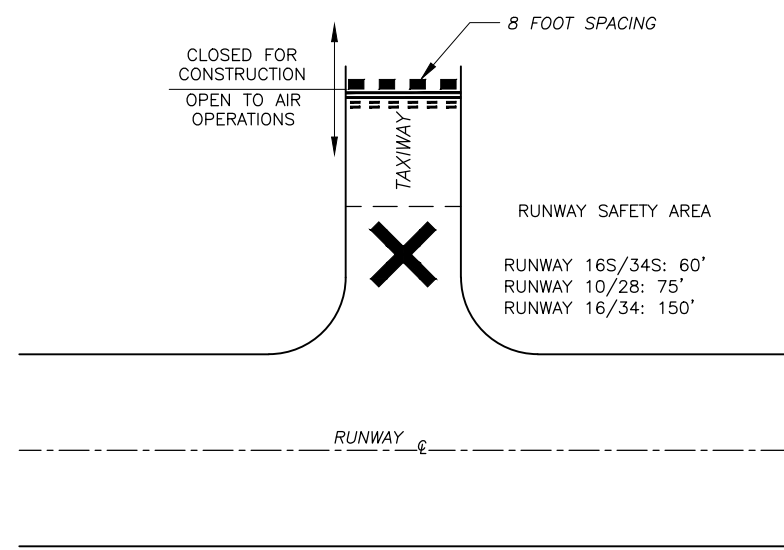


- NOTE:**
- EDGE MARKER SPACING FOR DELINEATION OF WORK AREAS SHALL BE PER DETAIL 7 S1.05.

3 TEMPORARY EDGE MARKER
 S1.05 SCALE: NONE

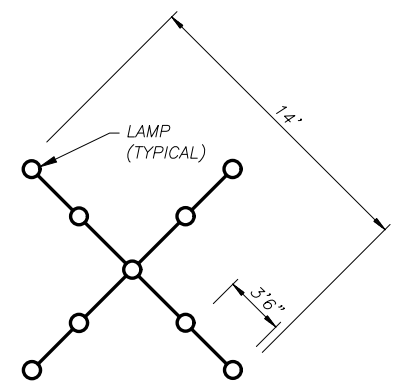


4 LOW PROFILE BARRICADE LAYOUT
 S1.05 SCALE: NTS



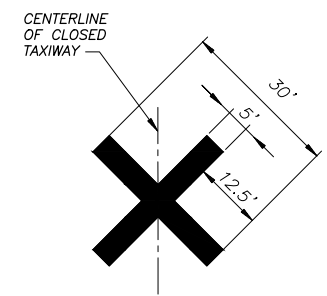
2 LOW PROFILE BARRICADE
 S1.05 SCALE: NTS

- NOTES:**
- BARRICADE CONSTRUCTED OF HIGH IMPACT, UV-RESISTANT POLYETHYLENE AS MANUFACTURED BY MULTI BARRIER (AR 10X96 HDPE) OR SIMILAR APPROVED EQUAL.
 - EACH UNIT SHALL INCLUDE RED STANDARD 3-WAY LIGHT, 20 INCH AVIATION FLUORESCENT ORANGE FLAG AND 3M HIGH REFLECTIVE ORANGE STRIPE ON WHITE BARRICADES AND 3M HIGH REFLECTIVE WHITE STRIPE ON ORANGE BARRICADES.
 - BARRICADES SHALL BE PLACED AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - DELIVER BARRICADES, FLASHER UNITS, AND FLAGS TO THE PROJECT SITE IN SUFFICIENT QUANTITIES FOR PLANNED CLOSURES BEFORE COMMENCING WORK.



- NOTES:**
- LIGHTED MARKERS SHALL COMPLY WITH FAA AC 150/5345-55A.
 - THE LIGHTED MARKERS SHALL BE PLACED AT BOTH ENDS OF CLOSED RUNWAY AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
 - LIGHTED MARKERS SHALL BE SECURED FROM WIND EFFECTS BY THE CONTRACTOR AND AS RECOMMENDED BY THE MANUFACTURER.
 - LIGHTED MARKERS SHALL BE IN PLACE AND OPERATING WHENEVER RUNWAY IS CLOSED AND REMOVED WHEN RE-OPENED.

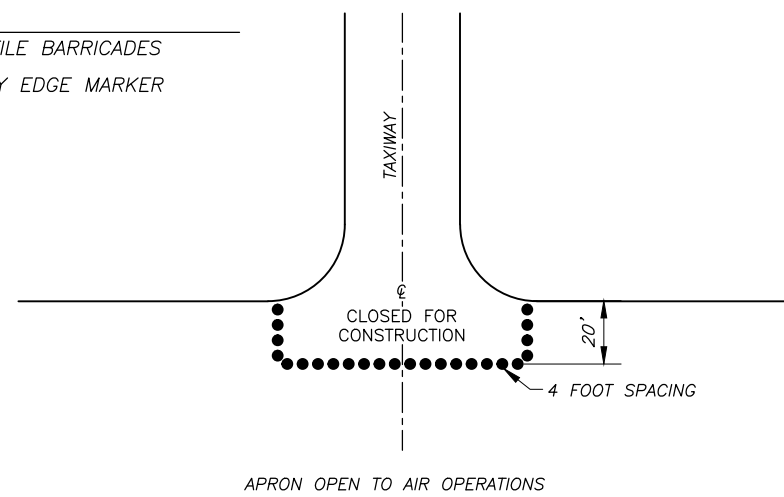
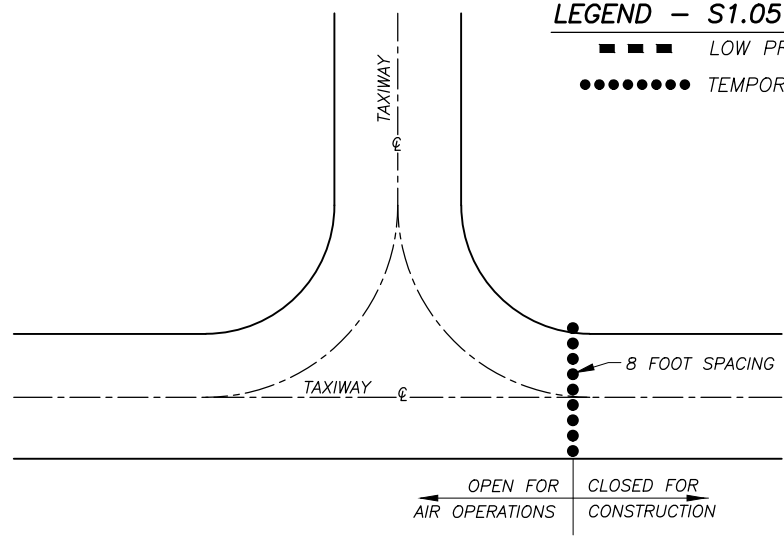
5 LIGHTED RUNWAY CLOSURE MARKER
 S1.05 SCALE: NONE



- NOTES:**
- CLOSURE MARKERS SHALL BE YELLOW AND MADE OF VINYL MESH PANEL MATERIAL AND SHALL RESIST WIND, RAIN, AND PROP BLAST DAMAGE. 2 CLOSURE MARKERS TO BE SUPPLIED BY THE OWNER.
 - CLOSURE MARKERS SHALL BE SECURED IN PLACE WITH 3 INCH MAXIMUM HEIGHT SANDBAGS.
 - CLOSURE MARKERS SHALL BE MAINTAINED AT ALL TIMES.
 - CLOSURE MARKERS SHALL BE PLACED AT THE ENTRANCE TO THE CLOSED TAXIWAY FROM THE RUNWAY.

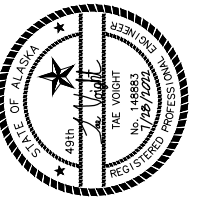
6 TEMPORARY CLOSURE MARKER
 S1.05 SCALE: NONE

- LEGEND - S1.05**
- LOW PROFILE BARRICADES
 - TEMPORARY EDGE MARKER



7 TAXIWAY CLOSURE EDGE MARKER AND LOW PROFILE BARRICADE PLACEMENT
 S1.05 SCALE: NTS

REVISIONS	MARK	DATE	DESCRIPTION
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WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE CSPP DETAILS	
SHEET S1.05	
DRAWN BY CDB	CHECKED BY TJSA
DATE JULY 2022	SCALE AS NOTED
JOB NUMBER 18-001-15	

GENERAL SAFETY REQUIREMENTS (ALL WORK AREAS)

1. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO AND SHALL COMPLY WITH THE FOLLOWING:

ITEM	G-110	AIRPORT SAFETY REQUIREMENTS
SECTION	95.03	TIME OF COMPLETION
SECTION 10, ARTICLE	4.12	PUBLIC CONVENIENCE AND ACCESS
SECTION 10, ARTICLE	5.4	UNUSUAL WORKING HOURS, HOLIDAYS, SATURDAYS, AND SUNDAYS
SECTION 10, ARTICLE	6.8	SAFETY
AC	150/5370-2G	OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION

2. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE EQUIPPED WITH A FUNCTIONING YELLOW FLASHING LIGHT AND A 3 FOOT BY 3 FOOT CHECKERED FLAG WITH 1 FOOT BY 1 FOOT ORANGE AND WHITE CHECKS. THE CONTRACTOR'S SAFETY MANAGER VEHICLE SHALL ALSO HAVE BOTH AN YELLOW FLASHING LIGHT AND A BLUE FLASHING LIGHT. THE BLUE LIGHT SHALL BE USED TO SIGNAL WORKERS TO CLEAR APRON, TAXIWAY, AND RUNWAY SAFETY AREAS.

3. CONTRACTOR SHALL KEEP ACTIVE PAVED SURFACES CLEAR OF CONSTRUCTION MATERIALS, FOREIGN OBJECTS, DIRT, GRAVEL AND DEBRIS. REMOVE MATERIALS FROM ACTIVE PAVED SURFACES WITHIN 15 MINUTES OF VERBAL NOTICE FROM THE AIRPORT MANAGER, OR HIS REPRESENTATIVE.

4. THE CONTRACTOR'S SAFETY MANAGER, ADDITIONAL SAFETY PERSONNEL, AND SUPERINTENDENT SHALL HAVE A 2-WAY RADIO AND CONTINUOUSLY MONITOR THE COMMON TRAFFIC ADVISORY FREQUENCY (CTAF) PUBLISHED IN THE CURRENT ALASKA FLIGHT INFORMATION SUPPLEMENT AT ALL TIMES.

5. WORK PERFORMED SHALL NOT PREVENT THE FLOW OF AIRCRAFT, AND VEHICLE TRAFFIC. MAINTAIN ACCESS TO ALL OPEN RUNWAYS, OPEN TAXIWAYS, AND OPEN APRONS.

6. SUBMIT CONTRACTOR'S SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

7. INSTALL TRAFFIC CONTROL DEVICES AT ALL HAUL ROUTE INTERSECTIONS WITH ROADS AND TAXIWAYS IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED SAFETY PLAN.

8. ALL ACTIVE CONSTRUCTION AREAS ON RUNWAYS AND TAXIWAYS SHALL BE DELINEATED FROM ACTIVE AIRCRAFT OPERATION AREAS WITH LOW PROFILE BARRICADES AS SHOWN ON SAFETY PLANS.

9. CONTRACTOR SHALL ROUTE HAUL VEHICLES AND EQUIPMENT ONLY AS SHOWN ON SAFETY PLANS AND THE PROJECT LAYOUT PLANS. CONTRACTOR SHALL REPAIR ANY DAMAGE TO HAUL ROUTES AT NO ADDITIONAL COST TO THE OWNER, UNLESS NOTED OTHERWISE.

10. PROVIDE FLAGGERS, SIGNAGE, AND BARRIERS ALONG HAUL ROUTES IN ACCORDANCE WITH SPECIFICATIONS AND CONTRACTOR'S APPROVED SAFETY PLAN.

11. CONTRACTOR SHALL INSPECT THE HAUL ROUTES EVERY 4 HOURS WHEN WORK IS PERFORMED AND AT THE END OF EACH SHIFT, AND AS REQUIRED BY THE ENGINEER. CONTRACTOR SHALL REMOVE ALL SPILLED MATERIAL, AND SWEEP AND BROOM CLEAN APRONS, TAXIWAYS, AND RUNWAYS.

12. NO HAUL VEHICLES OR EQUIPMENT SHALL BE PERMITTED ON OPEN APRONS, OPEN TAXIWAYS, OR OPEN RUNWAYS EXCEPT WHERE SPECIFIED OTHERWISE.

13. HAUL VEHICLES SHALL YIELD TO AIRCRAFT AT ALL TIMES.

14. CONTRACTOR MAY BE DIRECTED BY ENGINEER OR AN AIRPORT REPRESENTATIVE TO CHANGE OR REMOVE THE TEMPORARY RUNWAY CLOSURE MARKERS AND MAKE THE RUNWAY AVAILABLE FULL LENGTH IN THE EVENT OF AN EMERGENCY. THIS WORK SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

15. CONTRACTOR SHALL ATTEND DAILY SAFETY AND STATUS MEETINGS. ALL CHANGES IN SCHEDULE AND CLOSURES WILL BE DISCUSSED AT THESE MEETINGS.

16. CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE BY PHONE, 24 HOURS PER DAY, 7 DAYS A WEEK, TO MAKE CORRECTIVE ACTION TO RESOLVE EMERGENCY/SAFETY DISCREPANCIES.

17. COORDINATE START DATE OF WORK WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO STARTING WORK. NO WORK SHALL BEGIN UNTIL ACCESS IS GRANTED BY THE ENGINEER. SEE RUNWAY STATUS CHANGE PROCEDURES FOR DETAILS.

18. STOCKPILE MATERIAL AND STAGING EQUIPMENT IS NOT PERMITTED WITHIN THE OFA OF AN OPERATIONAL RUNWAY AND TAXIWAY.

19. ENGINEER WILL COORDINATE WITH CITY OF PALMER STAFF TO TURN OFF VISUAL AIDS AND EDGE LIGHTS DURING CLOSURES. SEE ELECTRICAL SHEETS FOR TEMPORARY LIGHTING INFORMATION.

20. TAXIWAY LIGHTS TO REMAIN IN SERVICE AT ALL TIMES ON OPEN TAXIWAYS DURING HOURS OF DARKNESS.

21. CONTRACTOR TO OBTAIN NOISE PERMIT FROM CITY OF PALMER FOR ANY WORK BETWEEN 10 PM AND 6 AM.

RUNWAY AND TAXIWAY STATUS CHANGE PROCEDURES

1. THESE PROCEDURES SHALL BE FOLLOWED ANY TIME THE STATUS OF ANY RUNWAY OR TAXIWAY IS TO BE ALTERED:

A. NOTIFY THE AIRPORT MANAGER, THROUGH THE ENGINEER, OF UPCOMING CHANGE IN STATUS. PROVIDE 48 HOURS ADVANCE NOTICE.

B. AIRPORT MANAGER, OR HIS DESIGNATED REPRESENTATIVE, FILES A NOTICE TO AIRMEN (NOTAM) WITH FAA.

C. CONTRACTOR RECEIVES TENTATIVE APPROVAL TO CHANGE RUNWAY STATUS AT A SPECIFIC TIME AND DATE.

D. THE DAY OF THE CHANGE IN STATUS AND PRIOR TO A CHANGE IN STATUS, A MEETING IS CONDUCTED WITH THE AIRPORT MANAGER, ENGINEER, OR DESIGNATED REPRESENTATIVE, TO REVIEW SCHEDULE AND SAFETY PROCEDURES.

E. AIRPORT MANAGER OR PUBLIC WORKS STAFF TURNS OFF AND "TAGS OUT" RUNWAY OR TAXIWAY CIRCUIT. IF NO WORK IS BEING PERFORMED ON A LIGHTING CIRCUIT, IT IS ACCEPTABLE TO COVER EACH LIGHT IN AREAS TO BE CLOSED AND LEAVE CIRCUIT ON.

F. CONTRACTOR INSTALLS CLOSURE MARKERS AND LOW PROFILE BARRICADES AS SHOWN ON THE SAFETY PLANS, OR REMOVE CLOSURE MARKINGS.

G. AIRPORT MANAGER, OR DESIGNATED REPRESENTATIVE, INSPECTS THE MARKINGS AND MARKERS.

H. AIRPORT MANAGER, OR DESIGNATED REPRESENTATIVE APPROVES THE CLOSURE OR HAS DETERMINED THE CLOSURE IS NO LONGER NECESSARY AND THE FACILITY CAN BE SAFELY OPENED TO AIR OPERATIONS.

I. CONTRACTOR PROCEEDS WITH THE WORK.

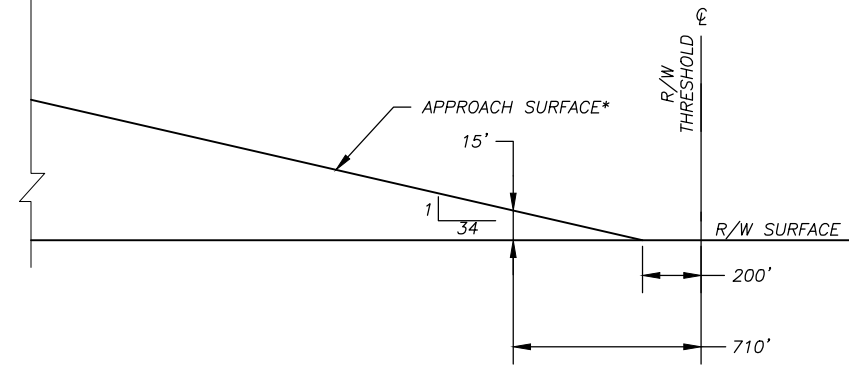
2. CONTRACTOR CHANGES RUNWAY OR TAXIWAY STATUS TO A NEW CONFIGURATION, OR CHANGES BACK TO PERMANENT STATUS, FOLLOWING THE STEPS SET FORTH ABOVE.

3. PRIOR TO OPENING RUNWAYS, TAXIWAYS, AND APRON AREAS CLOSED FOR CONSTRUCTION OR USED FOR HAULING, CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS TO THE SATISFACTION OF THE ENGINEER AND REMOVE CLOSURE MARKERS AND BARRICADES.

HAZARD MARKING NOTES

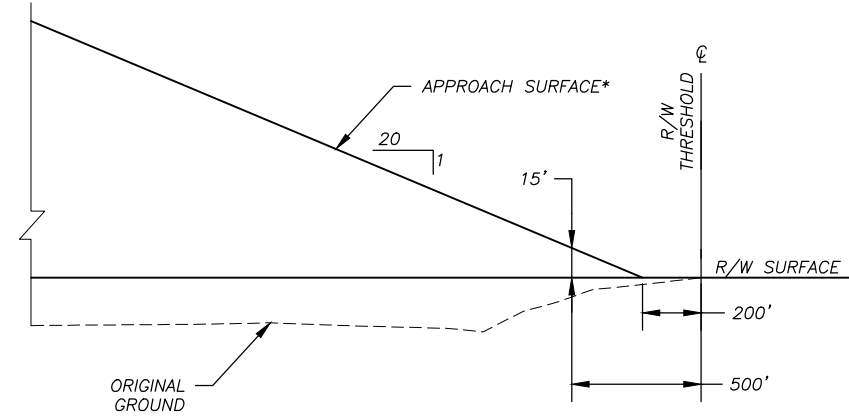
1. MARK OPEN TRENCHES OR EXCAVATIONS WITHIN THE TAXIWAY OFA OR RUNWAY OFZ. USE RED OR ORANGE FLAGS AND, DURING RESTRICTED VISIBILITY OR DARKNESS, LIGHT WITH RED LIGHTS.

*EQUIPMENT AND MATERIALS SHALL NOT PENETRATE THE APPROACH SURFACE OF THE ACTIVE RUNWAY. THE APPROACH SURFACE IS BASED ON THE THRESHOLD ELEVATION, THE ALLOWABLE EQUIPMENT AND MATERIAL HEIGHT MAY BE REDUCED WHERE THE GROUND ELEVATION INCREASES BEYOND THE THRESHOLD.



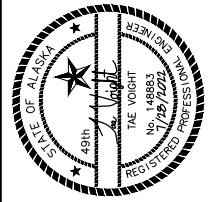
1 HEIGHT RESTRICTIONS ALONG RUNWAY 10 CENTERLINE
SCALE: NONE

*EQUIPMENT AND MATERIALS SHALL NOT PENETRATE THE APPROACH SURFACE OF THE ACTIVE RUNWAY. THE APPROACH SURFACE IS BASED ON THE THRESHOLD ELEVATION. THE ALLOWABLE EQUIPMENT AND MATERIAL HEIGHT MAY BE REDUCED WHERE THE GROUND ELEVATION INCREASES BEYOND THE THRESHOLD.



2 HEIGHT RESTRICTIONS ALONG RUNWAY 34 CENTERLINE
SCALE: NONE

REVISIONS	DATE	DESCRIPTION
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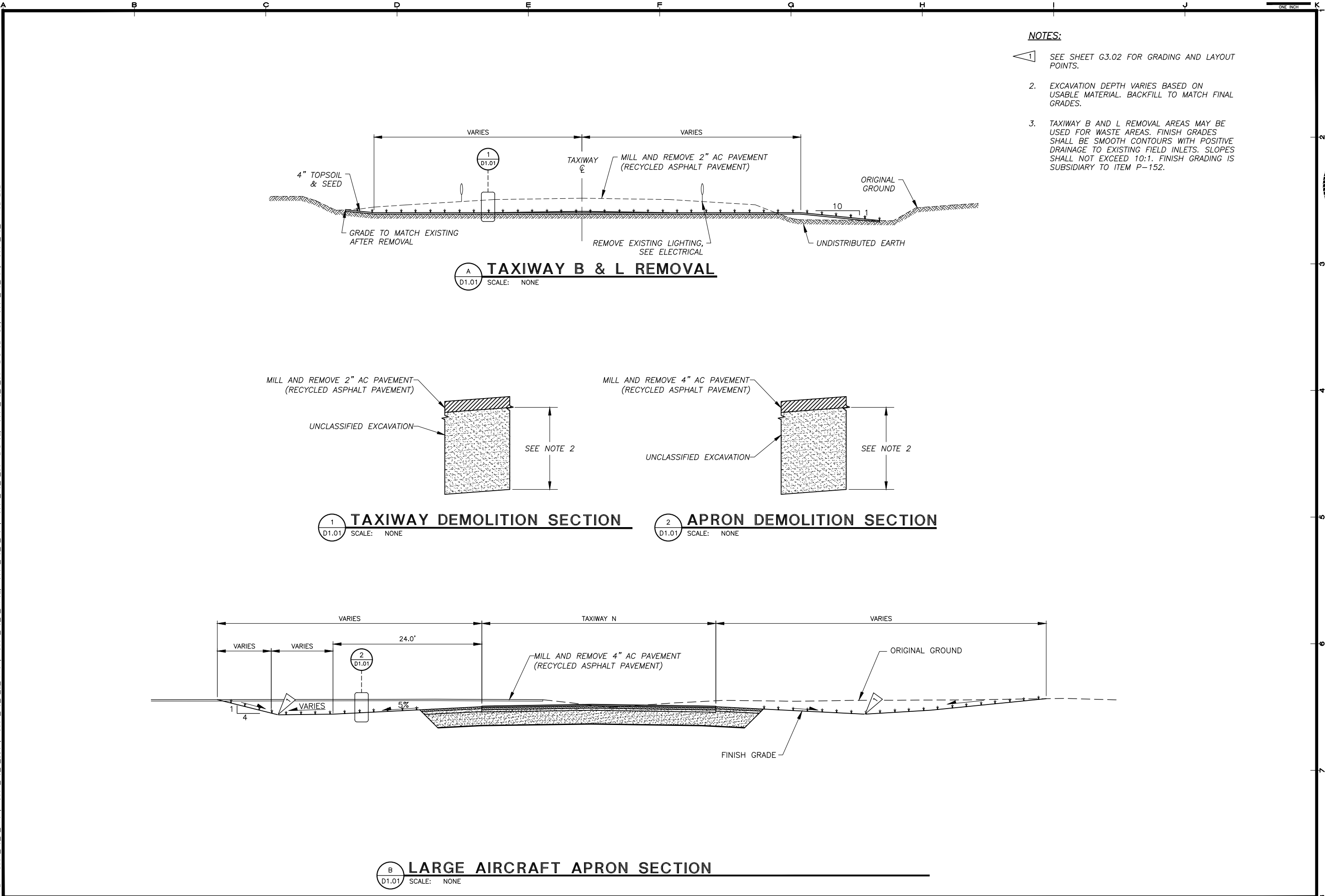
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
CSPP NOTES AND DETAIL	
SHEET	
S1.06	
DRAWN BY: CDB	CHECKED BY: TJSA
DATE: JULY 2022	SCALE: AS NOTED
JOB NUMBER: 18-001-15	

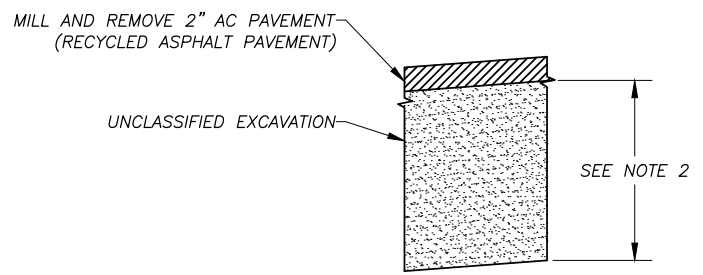
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VIEW: C01_F_D0800
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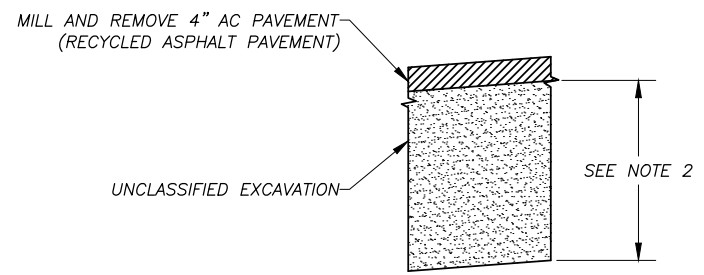


- NOTES:**
- SEE SHEET G3.02 FOR GRADING AND LAYOUT POINTS.
 - EXCAVATION DEPTH VARIES BASED ON USABLE MATERIAL. BACKFILL TO MATCH FINAL GRADES.
 - TAXIWAY B AND L REMOVAL AREAS MAY BE USED FOR WASTE AREAS. FINISH GRADES SHALL BE SMOOTH CONTOURS WITH POSITIVE DRAINAGE TO EXISTING FIELD INLETS. SLOPES SHALL NOT EXCEED 10:1. FINISH GRADING IS SUBSIDIARY TO ITEM P-152.

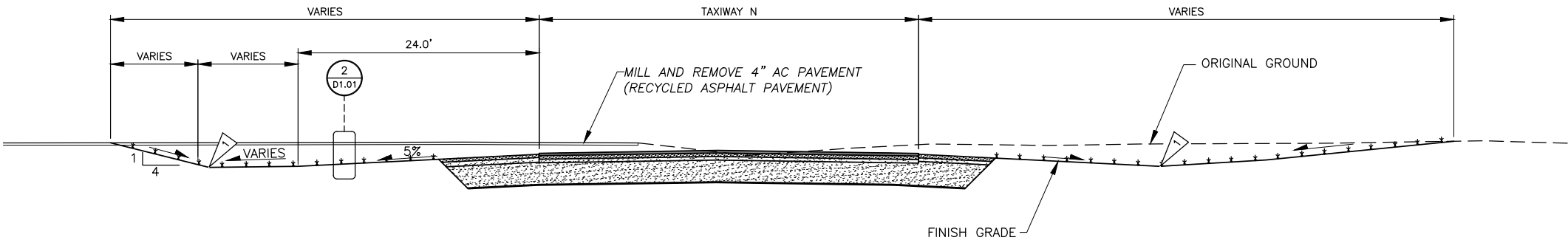
A TAXIWAY B & L REMOVAL
 D1.01 SCALE: NONE



1 TAXIWAY DEMOLITION SECTION
 D1.01 SCALE: NONE

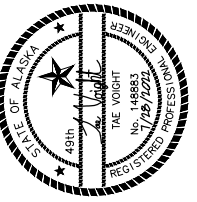


2 APRON DEMOLITION SECTION
 D1.01 SCALE: NONE



B LARGE AIRCRAFT APRON SECTION
 D1.01 SCALE: NONE

REVISIONS	MARK	DATE	DESCRIPTION
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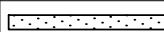
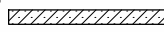
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

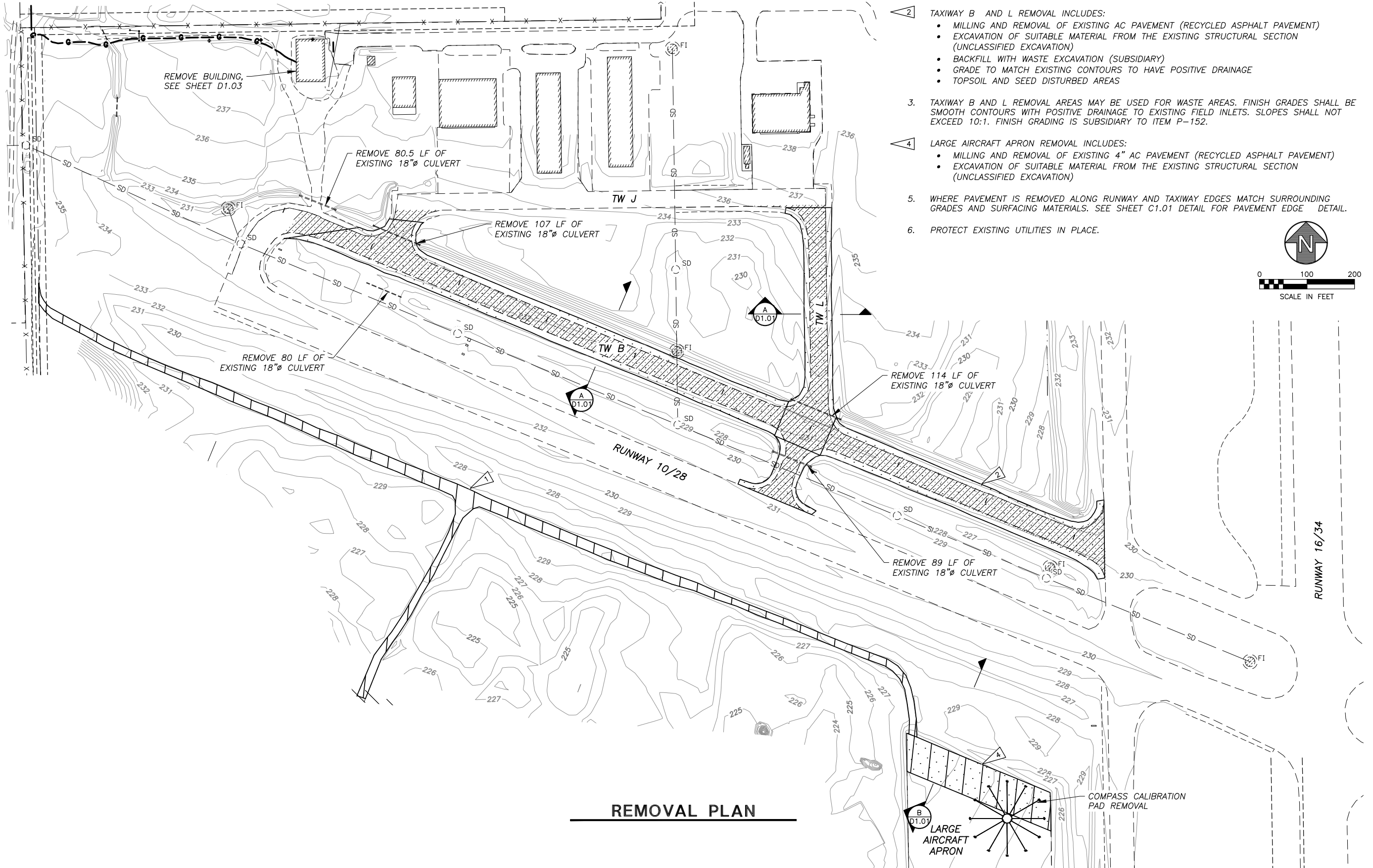
SHEET TITLE
SCHEDULE A REMOVAL SECTIONS

SHEET
D1.01

DRAWN BY: CDB	CHECKED BY: DWL
DATE: JULY 2022	SCALE: AS NOTED
JOB NUMBER: 18-001-15	

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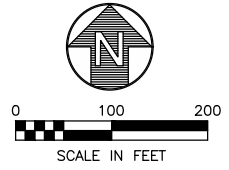
LEGEND	
	GRAVEL REMOVAL AREA
	PAVED REMOVAL AREA



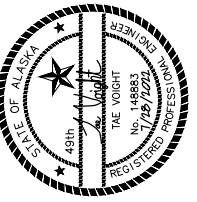
REMOVAL PLAN

NOTES:

- 1 REMOVE EXISTING TEMPORARY SERVICE ROAD:
 - EXCAVATE SUITABLE MATERIAL AS AVAILABLE AND USE IN EMBANKMENT.
 - GRADE TO MATCH EXISTING CONTOURS (SUBSIDIARY)
 - TOPSOIL AND SEED DISTURBED AREAS OUTSIDE OF THE LIMITS OF TAXIWAY N.
- 2 TAXIWAY B AND L REMOVAL INCLUDES:
 - MILLING AND REMOVAL OF EXISTING AC PAVEMENT (RECYCLED ASPHALT PAVEMENT)
 - EXCAVATION OF SUITABLE MATERIAL FROM THE EXISTING STRUCTURAL SECTION (UNCLASSIFIED EXCAVATION)
 - BACKFILL WITH WASTE EXCAVATION (SUBSIDIARY)
 - GRADE TO MATCH EXISTING CONTOURS TO HAVE POSITIVE DRAINAGE
 - TOPSOIL AND SEED DISTURBED AREAS
3. TAXIWAY B AND L REMOVAL AREAS MAY BE USED FOR WASTE AREAS. FINISH GRADES SHALL BE SMOOTH CONTOURS WITH POSITIVE DRAINAGE TO EXISTING FIELD INLETS. SLOPES SHALL NOT EXCEED 10:1. FINISH GRADING IS SUBSIDIARY TO ITEM P-152.
- 4 LARGE AIRCRAFT APRON REMOVAL INCLUDES:
 - MILLING AND REMOVAL OF EXISTING 4" AC PAVEMENT (RECYCLED ASPHALT PAVEMENT)
 - EXCAVATION OF SUITABLE MATERIAL FROM THE EXISTING STRUCTURAL SECTION (UNCLASSIFIED EXCAVATION)
5. WHERE PAVEMENT IS REMOVED ALONG RUNWAY AND TAXIWAY EDGES MATCH SURROUNDING GRADES AND SURFACING MATERIALS. SEE SHEET C1.01 DETAIL FOR PAVEMENT EDGE DETAIL.
6. PROTECT EXISTING UTILITIES IN PLACE.



REVISIONS	MARK	DATE	DESCRIPTION
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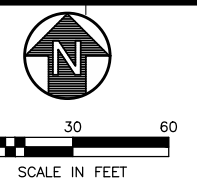
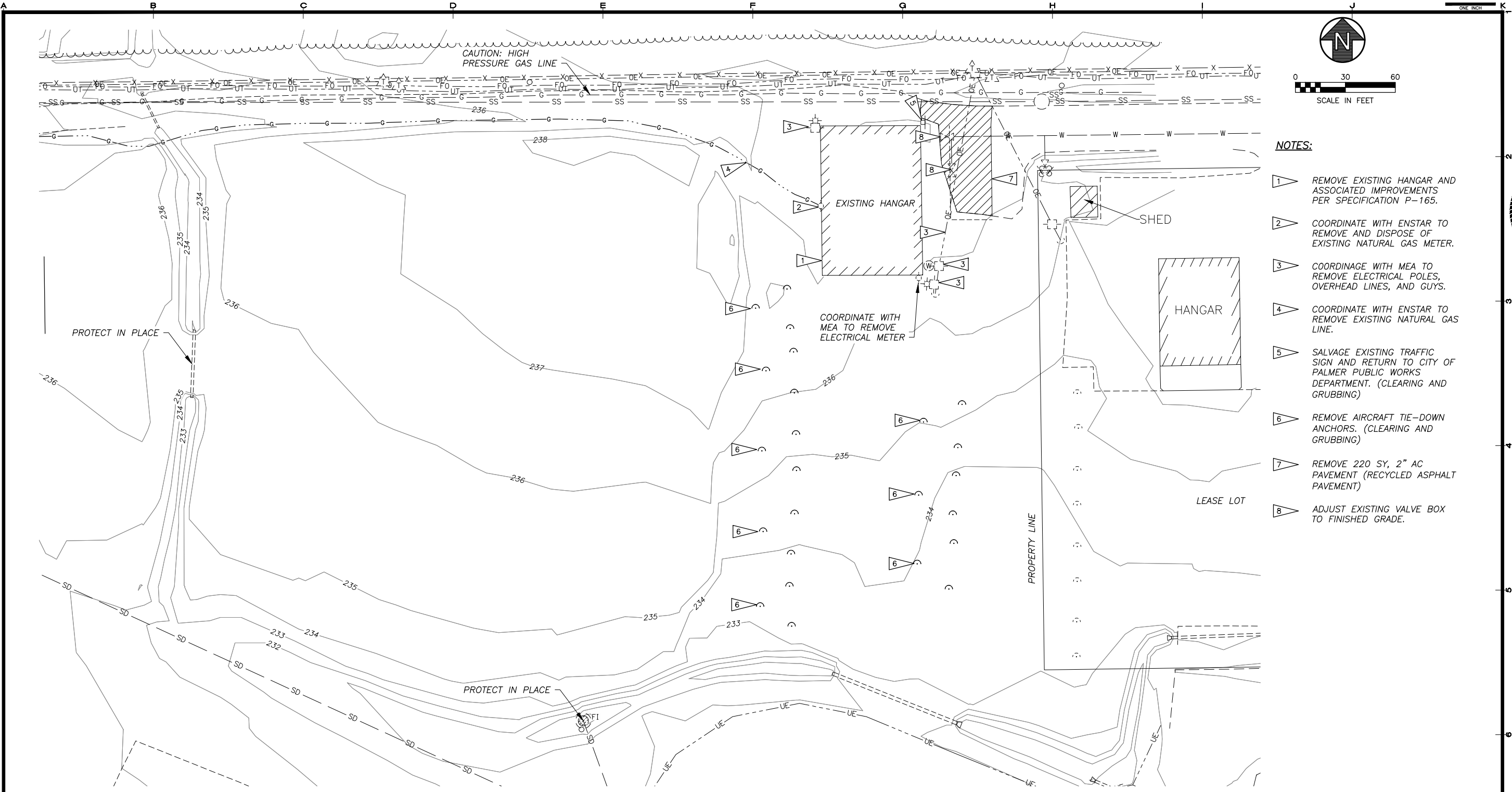


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 AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE	
SCHEDULE A REMOVAL PLAN	
SHEET	
D1.02	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

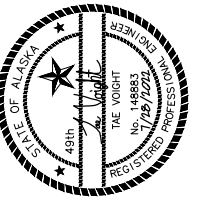
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 XREF: 18001_15_X_X01, 18001_15_X_BD01, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD



NOTES:

- 1 REMOVE EXISTING HANGAR AND ASSOCIATED IMPROVEMENTS PER SPECIFICATION P-165.
- 2 COORDINATE WITH ENSTAR TO REMOVE AND DISPOSE OF EXISTING NATURAL GAS METER.
- 3 COORDINATE WITH MEA TO REMOVE ELECTRICAL POLES, OVERHEAD LINES, AND GUYS.
- 4 COORDINATE WITH ENSTAR TO REMOVE EXISTING NATURAL GAS LINE.
- 5 SALVAGE EXISTING TRAFFIC SIGN AND RETURN TO CITY OF PALMER PUBLIC WORKS DEPARTMENT. (CLEARING AND GRUBBING)
- 6 REMOVE AIRCRAFT TIE-DOWN ANCHORS. (CLEARING AND GRUBBING)
- 7 REMOVE 220 SY, 2" AC PAVEMENT (RECYCLED ASPHALT PAVEMENT)
- 8 ADJUST EXISTING VALVE BOX TO FINISHED GRADE.

REVISIONS	MARK	DATE	DESCRIPTION
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1 DEMOLITION PLAN - APRON E
 D1.03 SCALE: 1" = 30'

CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
 WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

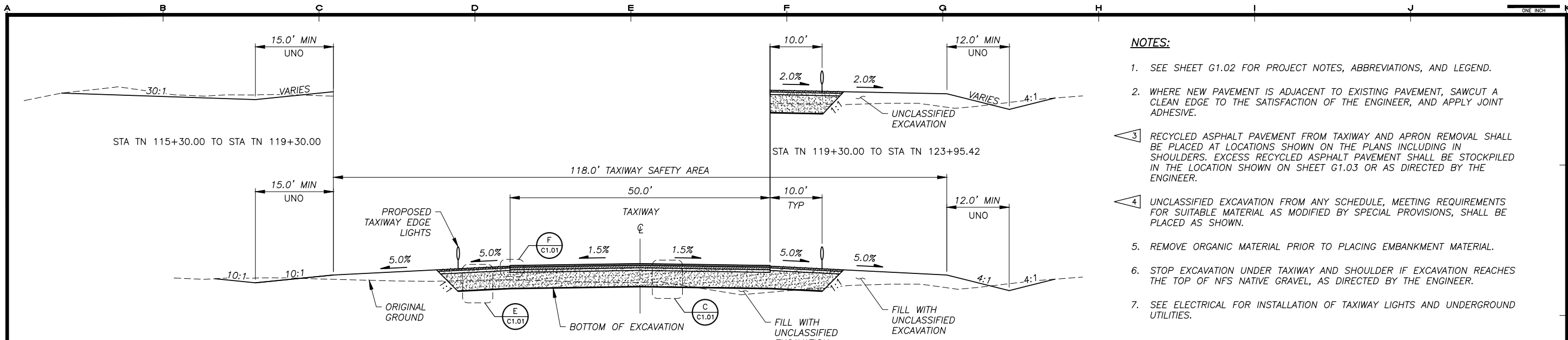
SHEET TITLE
**SCHEDULE C
 APRON E
 DEMOLITION PLAN**

SHEET
D1.03

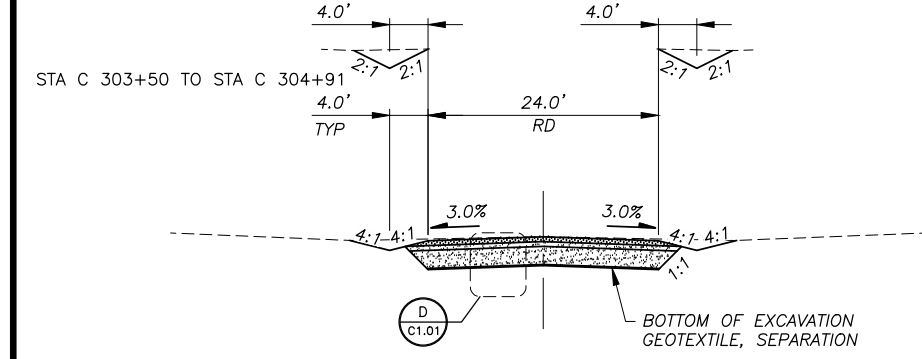
DRAWN BY: **CDB** CHECKED BY: **DWL**

DATE: **JULY 2022** SCALE: **AS NOTED**

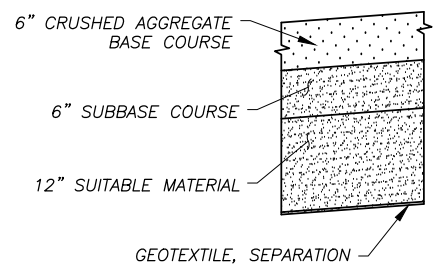
JOB NUMBER: **18-001-15**



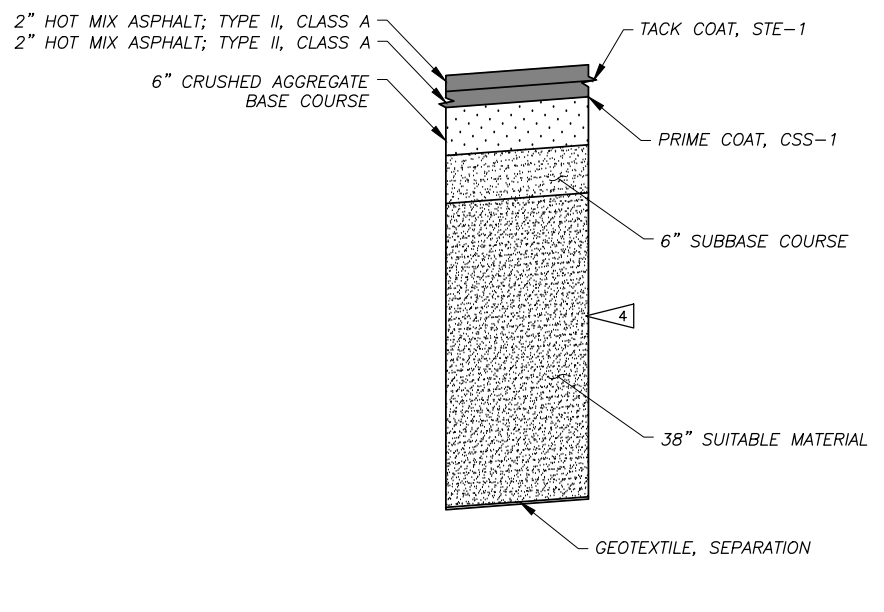
A TAXIWAY N SECTION
 C1.01 SCALE: NONE
 STA TN 100+37.66 TO STA TN 123+95.42



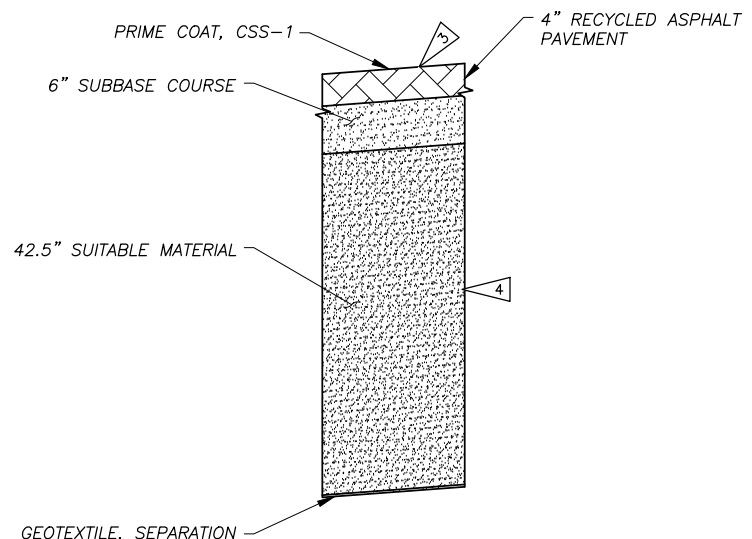
B CONSTRUCTION ACCESS SECTION
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 STA C 300+80 TO STA C 304+91



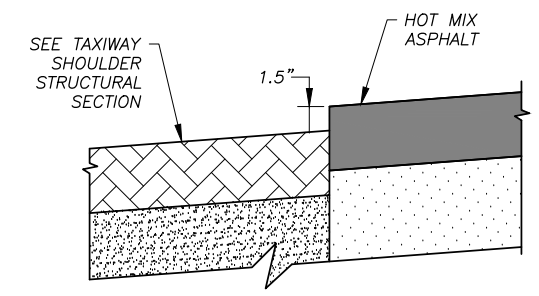
D CONSTRUCTION ACCESS SECTION
 C1.01 SCALE: NONE



C TAXIWAY N STRUCTURAL SECTION
 C1.01 SCALE: NONE



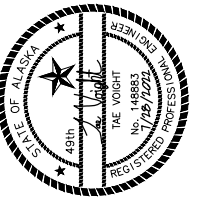
E TAXIWAY SHOULDER STRUCTURAL SECTION
 C1.01 SCALE: NONE



F PAVEMENT EDGE DETAIL
 C1.01 SCALE: NONE

- NOTES:**
- SEE SHEET G1.02 FOR PROJECT NOTES, ABBREVIATIONS, AND LEGEND.
 - WHERE NEW PAVEMENT IS ADJACENT TO EXISTING PAVEMENT, SAWCUT A CLEAN EDGE TO THE SATISFACTION OF THE ENGINEER, AND APPLY JOINT ADHESIVE.
 - RECYCLED ASPHALT PAVEMENT FROM TAXIWAY AND APRON REMOVAL SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS INCLUDING IN SHOULDERS. EXCESS RECYCLED ASPHALT PAVEMENT SHALL BE STOCKPILED IN THE LOCATION SHOWN ON SHEET G1.03 OR AS DIRECTED BY THE ENGINEER.
 - UNCLASSIFIED EXCAVATION FROM ANY SCHEDULE, MEETING REQUIREMENTS FOR SUITABLE MATERIAL AS MODIFIED BY SPECIAL PROVISIONS, SHALL BE PLACED AS SHOWN.
 - REMOVE ORGANIC MATERIAL PRIOR TO PLACING EMBANKMENT MATERIAL.
 - STOP EXCAVATION UNDER TAXIWAY AND SHOULDER IF EXCAVATION REACHES THE TOP OF NFS NATIVE GRAVEL, AS DIRECTED BY THE ENGINEER.
 - SEE ELECTRICAL FOR INSTALLATION OF TAXIWAY LIGHTS AND UNDERGROUND UTILITIES.

REVISIONS	MARK	DATE	DESCRIPTION
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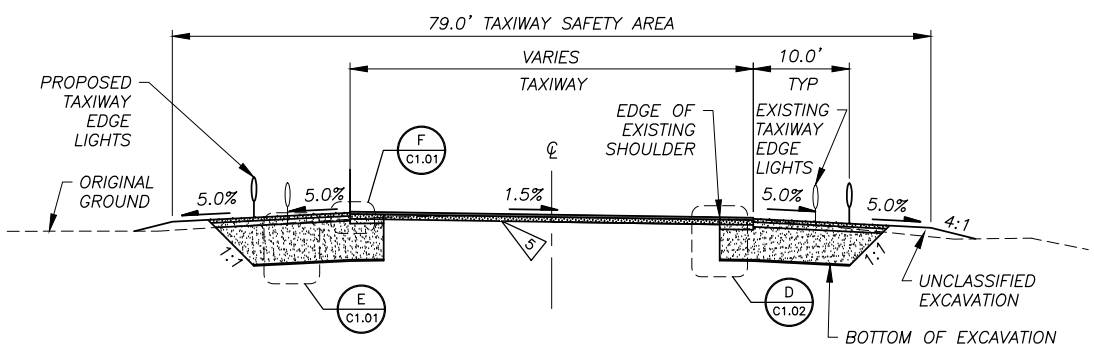
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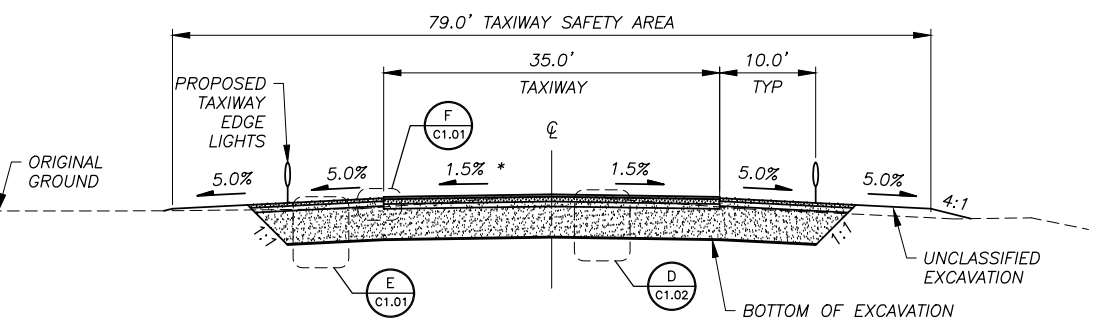
SHEET TITLE	
TAXIWAY & ROAD TYPICAL SECTIONS	
SHEET	
C1.01	
DRAWN BY:	CHECKED BY:
TCV	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

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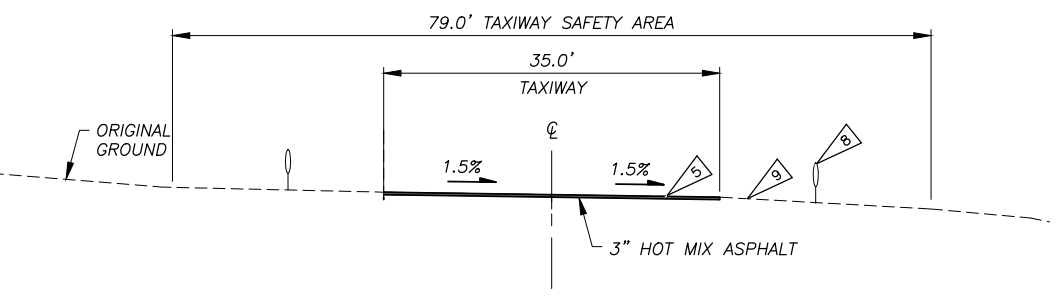
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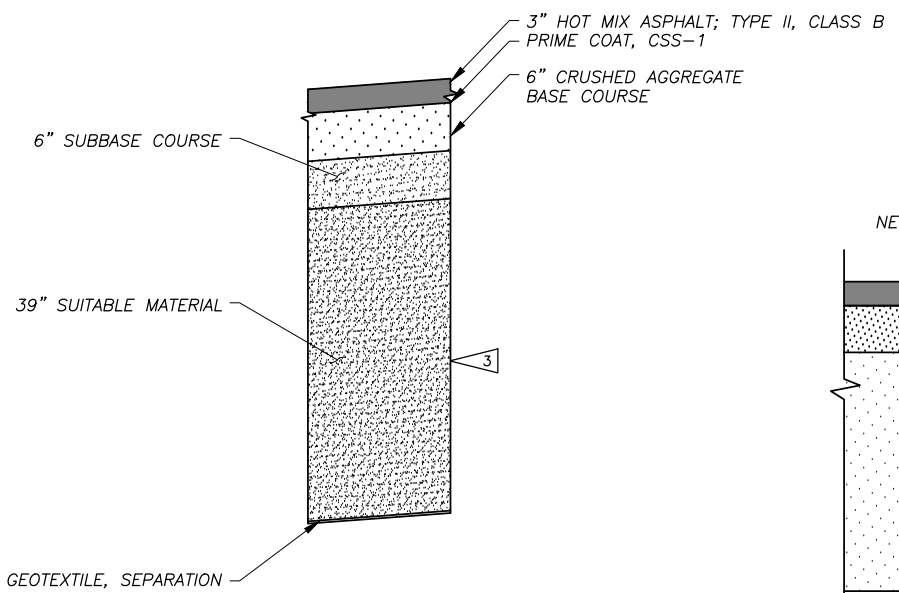
A TAXIWAY J WIDENING SECTION
 SCALE: NONE
 STA TJ 150+37.44 TO STA TJ 150+90



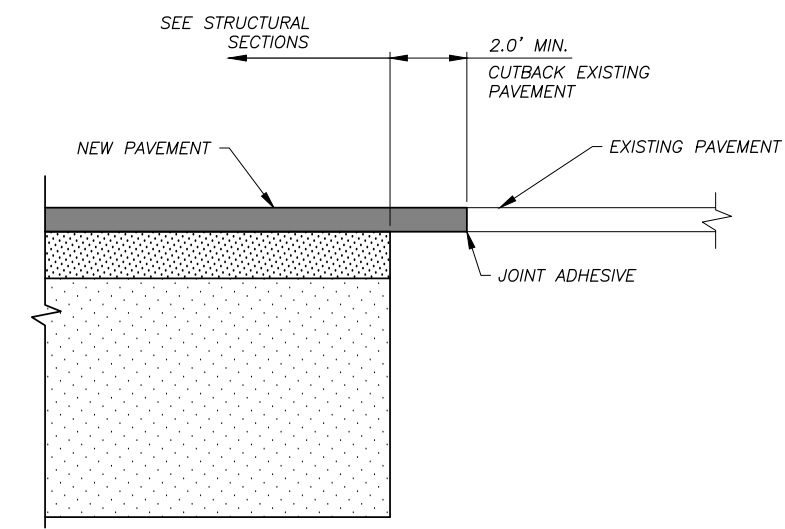
B TAXIWAY J SECTION
 SCALE: NONE
 STA TJ 150+90 TO STA TJ 154+67.26
 STA TJ 163+50 TO STA TJ 169+42
 * TIE INTO APRON E STA TJ 153+05.12 TO STA TJ 153+88.28



C TAXIWAY J
 SCALE: NONE
 STA TJ 154+67.26 - 163+50
 * TIE INTO LEASE LOT STA TJ 162+004.07 TO STA TJ 162+79.59



D TAXIWAY J STRUCTURAL SECTION
 SCALE: NONE

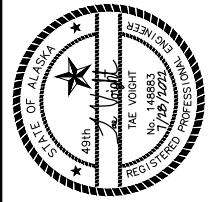


E PAVEMENT TRANSITION DETAIL
 SCALE: NONE

NOTES:

1. SEE ELECTRICAL SHEETS FOR REMOVAL AND INSTALLATION OF TAXIWAY LIGHTS AND UNDERGROUND UTILITIES.
2. SEE SHEET G1.05 FOR DEMOLITION OF TAXIWAY B AND TAXIWAY L.
3. UNCLASSIFIED EXCAVATION FROM ANY SCHEDULE, MEETING REQUIREMENTS FOR EMBANKMENT MATERIAL AS MODIFIED BY SPECIAL PROVISIONS, SHALL BE PLACED AS SHOWN.
4. REMOVE ORGANIC MATERIAL PRIOR TO PLACING SUITABLE MATERIAL.
5. MILL AND REMOVE EXISTING 2" AC PAVEMENT AND GRADE EXISTING BASE COURSE. ADD CRUSHED AGGREGATE BASE COURSE AS NEEDED TO MEET FINISHED GRADE ELEVATIONS. INSTALL 3" HOT MIX ASPHALT. (ADD ALT 1)
6. EXCESS RECYCLED ASPHALT PAVEMENT FROM MILLING EXISTING ASPHALT PAVEMENT SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS INCLUDING SHOULDERS. EXCESS RECYCLED ASPHALT PAVEMENT SHALL BE STOCKPILED IN LOCATIONS SHOWN ON SHEET G1.03 OR AS DIRECTED BY THE ENGINEER.
7. STOP EXCAVATION UNDER TAXIWAY AND SHOULDER IF EXCAVATION REACHES THE TOP OF NFS NATIVE GRAVEL, AS DIRECTED BY THE ENGINEER.
8. TAXIWAY EDGE LIGHTS TO BE REPLACED. SEE ELECTRICAL. (BASE BID)
9. REPLACE DISTURBED SHOULDER SURFACING WITH 4" RECYCLED ASPHALT PAVEMENT. (BASE BID)

REVISIONS	MARK	DATE	DESCRIPTION
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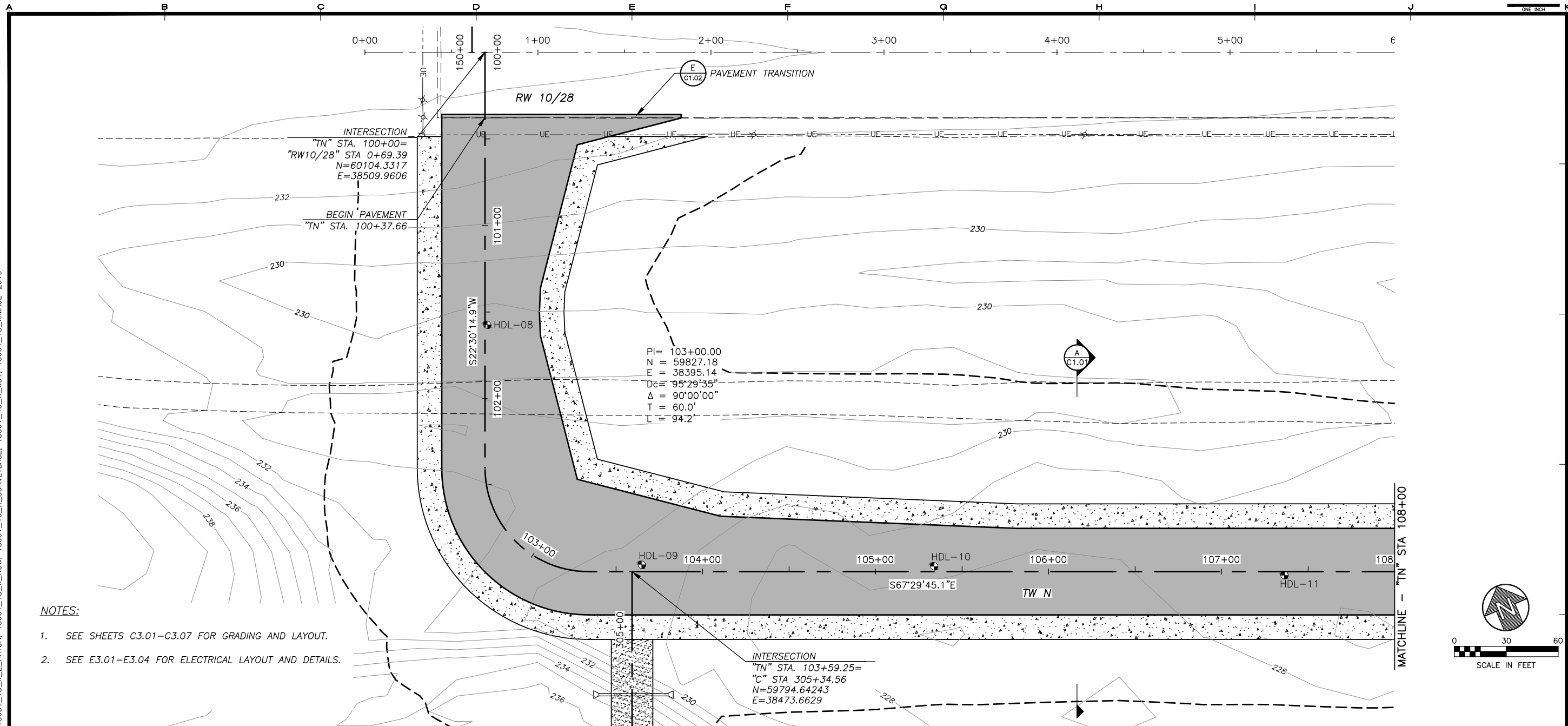


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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
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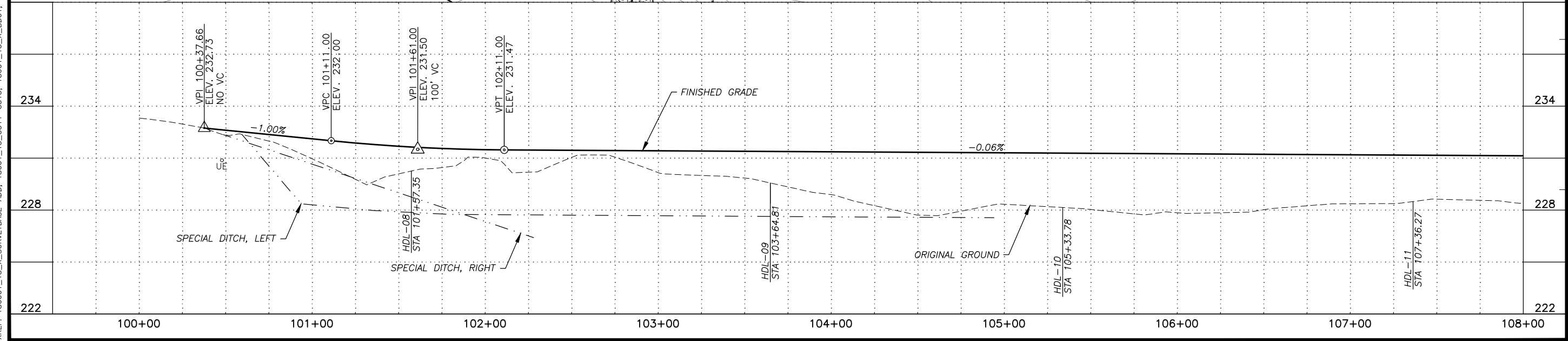
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SHEET C1.02	
DRAWN BY TCV	CHECKED BY DWL
DATE JULY 2022	SCALE AS NOTED
JOB NUMBER 18-001-15	

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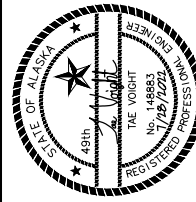


NOTES:

- SEE SHEETS C3.01-C3.07 FOR GRADING AND LAYOUT.
- SEE E3.01-E3.04 FOR ELECTRICAL LAYOUT AND DETAILS.



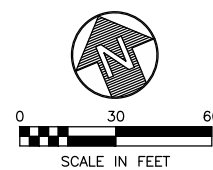
REVISIONS	MARK	DATE	DESCRIPTION
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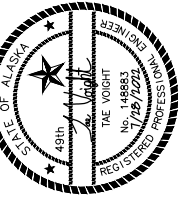
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TAXIWAY N PLAN & PROFILE BOP TO 108+00	
SHEET	
C2.01	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	



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 LAYOUT: C2.02
 DATE: 07/20/22
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STORM PIPE SUMMARY							
PIPE	SIZE (IN)	LENGTH (FT)	INLET		OUTLET		SLOPE %
			LOCATION	INVERT	LOCATION	INVERT	
P1	24	145.6	SD-1	221.10	SD-2	218.30	2.0

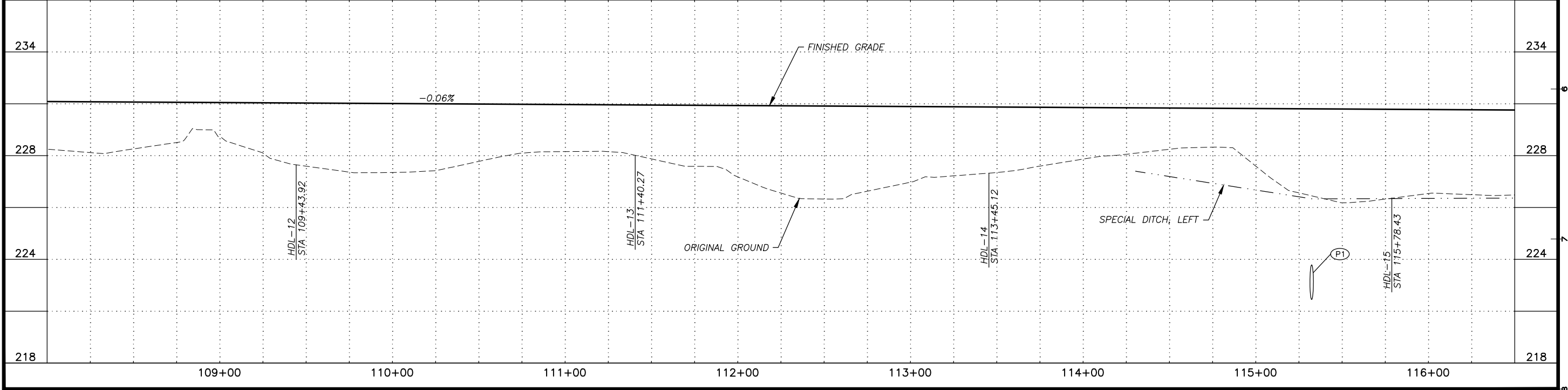
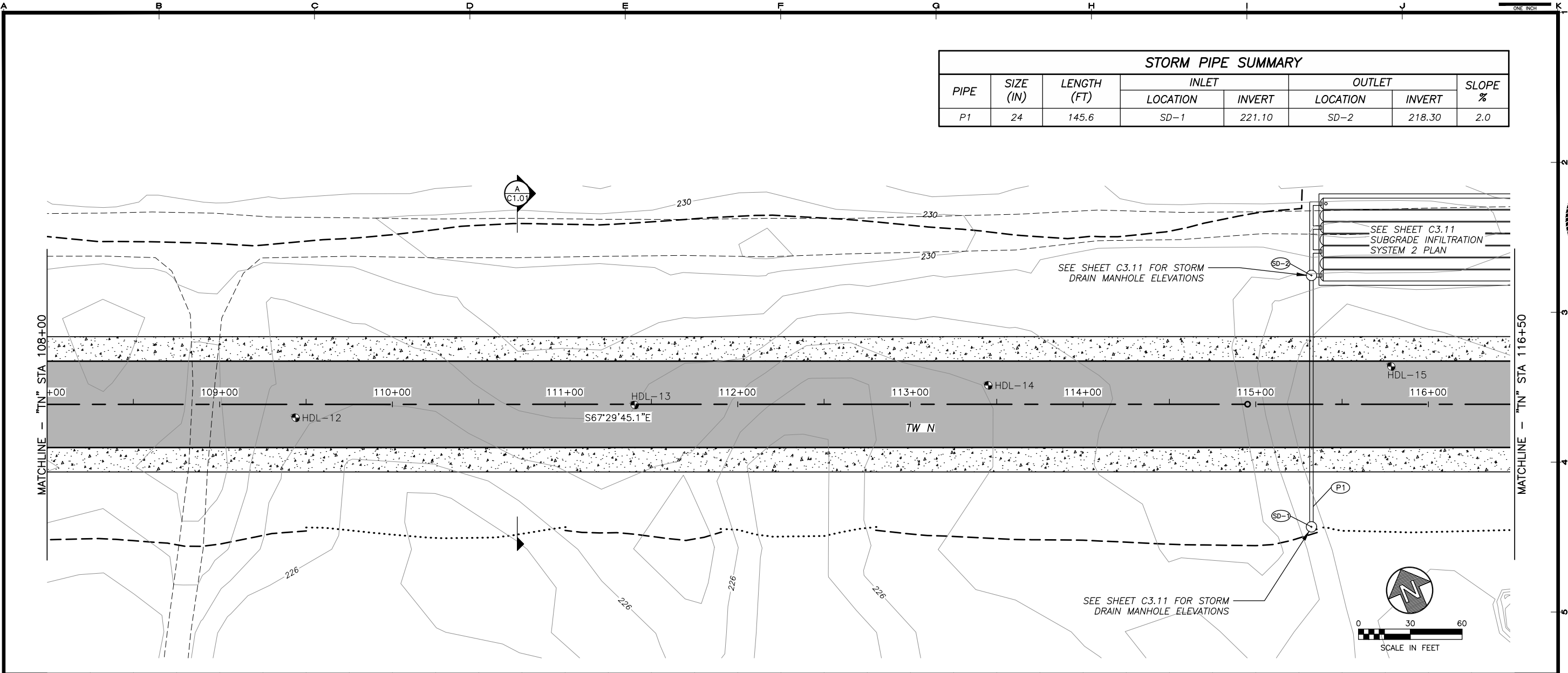
REVISIONS	MARK	DATE	DESCRIPTION
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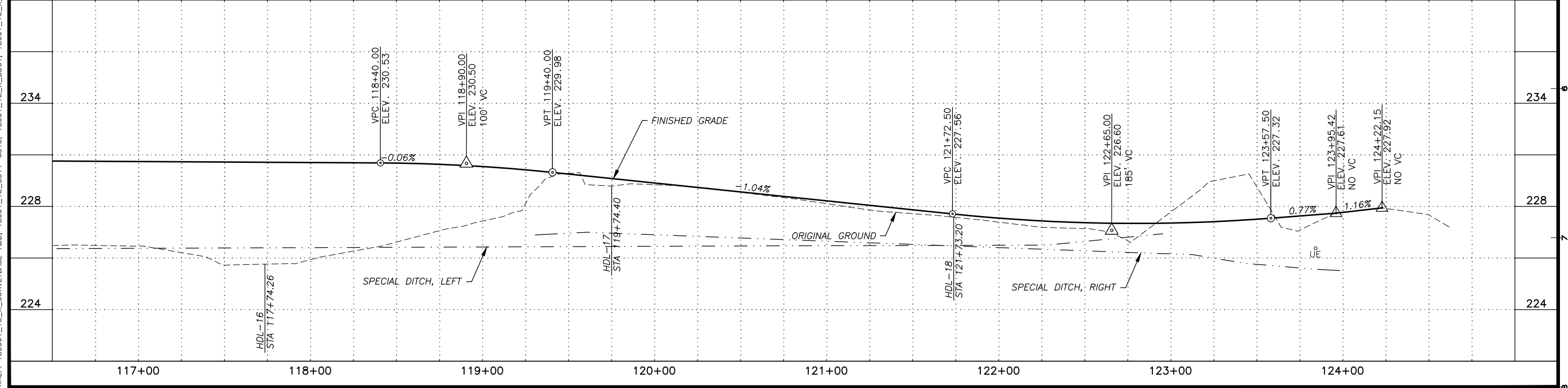
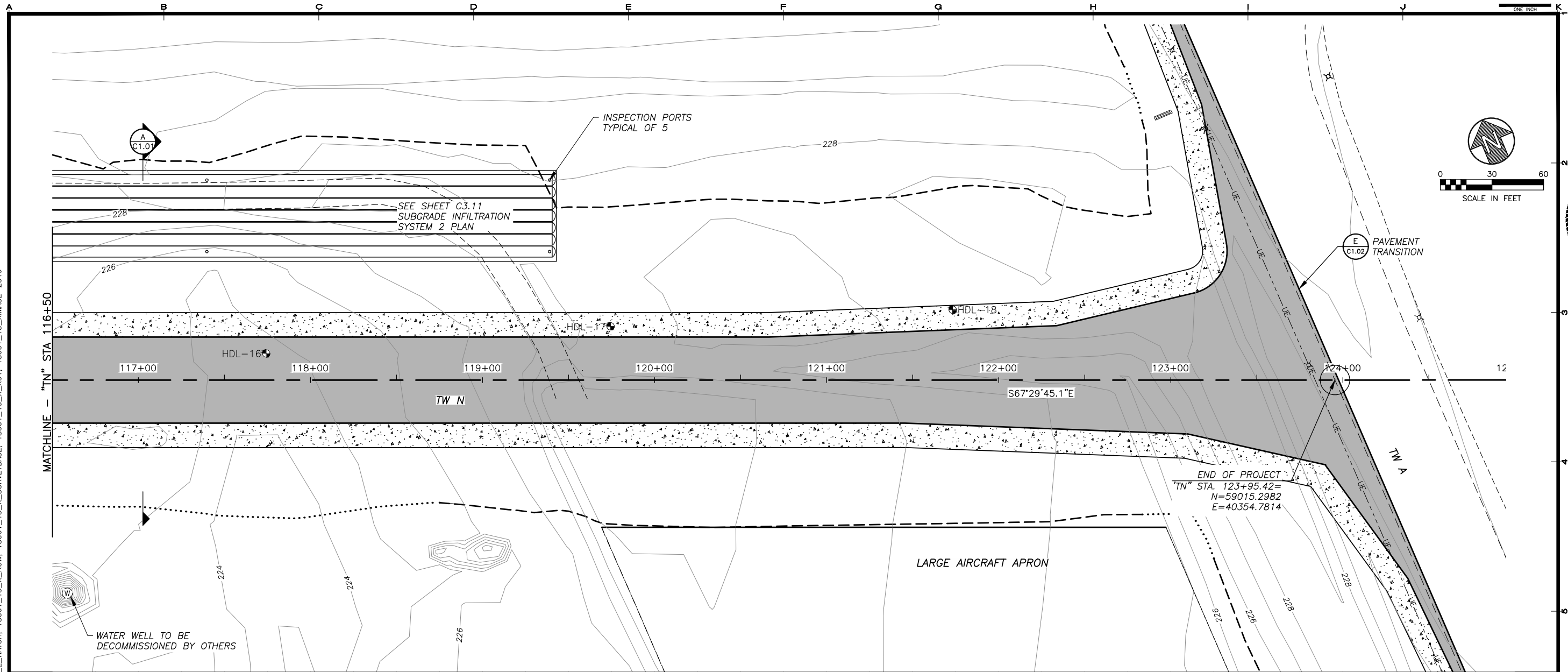
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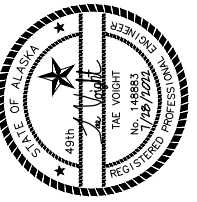
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**TAXIWAY N
 PLAN & PROFILE
 108+00 TO 116+50**
 SHEET
C2.02
 DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15



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REVISIONS	MARK	DATE	DESCRIPTION
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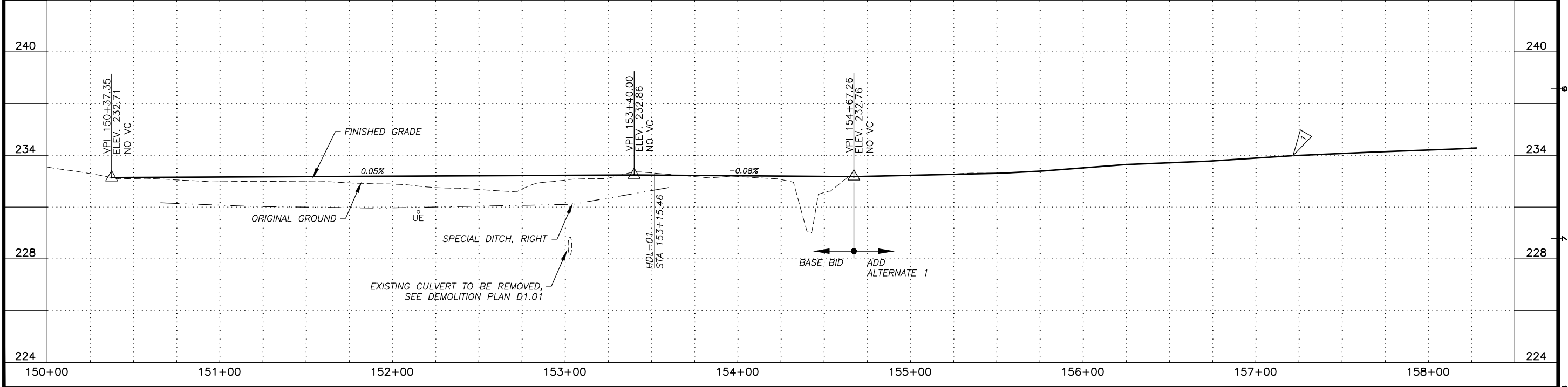
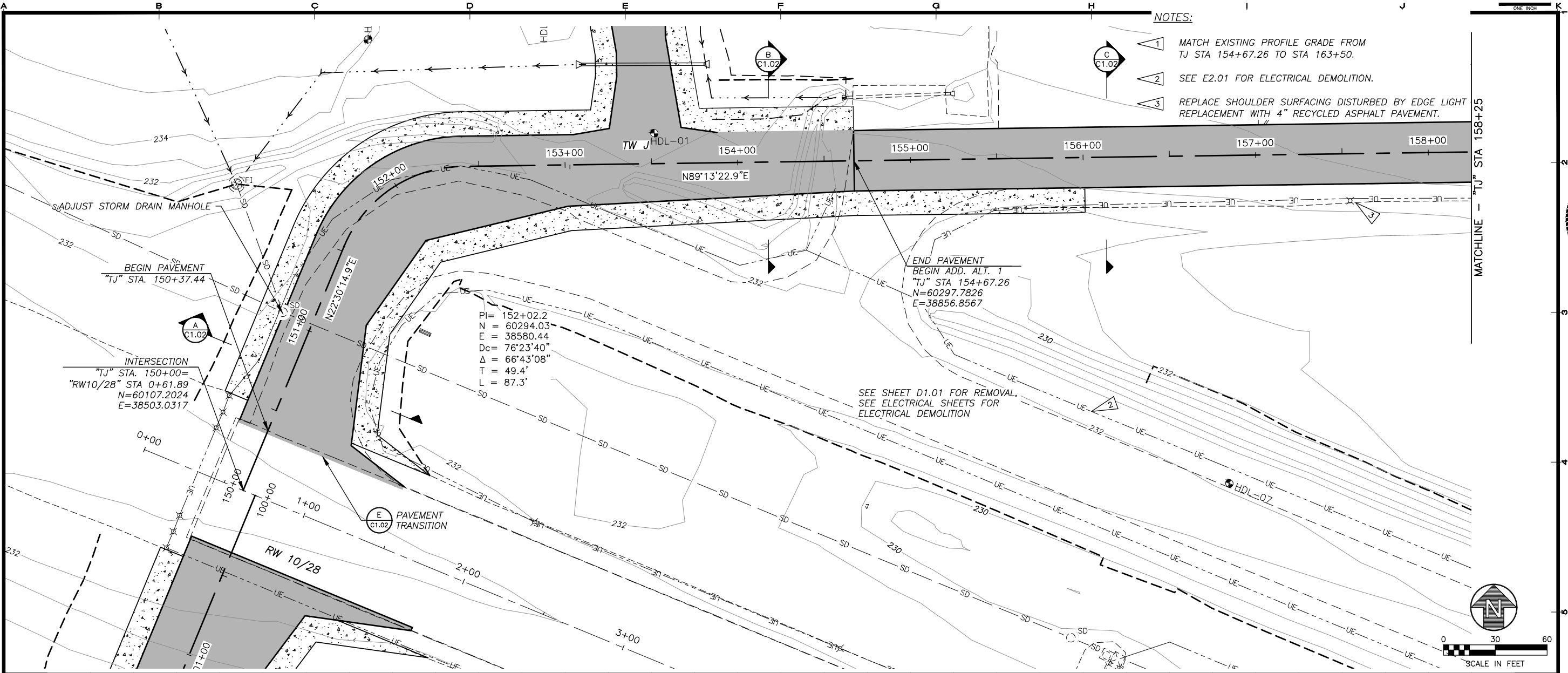
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE
 TAXIWAY N
 PLAN & PROFILE
 116+50 TO EOP

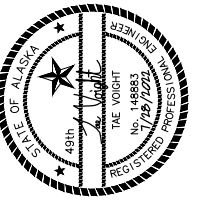
SHEET
C2.03

DRAWN BY: CDB	CHECKED BY: DWL
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JOB NUMBER: 18-001-15	

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REVISIONS	DATE	DESCRIPTION
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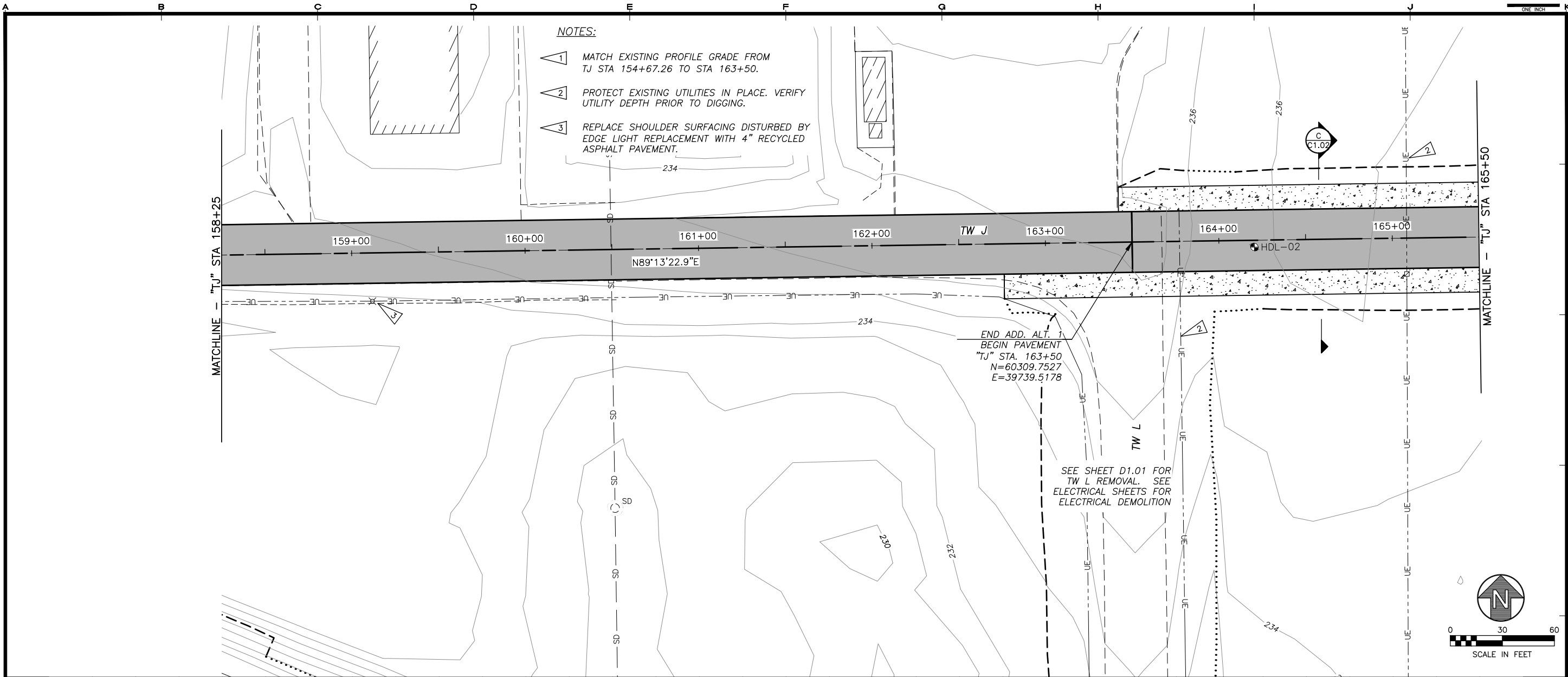


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SHEET TITLE	
TAXIWAY J PLAN & PROFILE BOP TO END	
SHEET	
C2.04	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

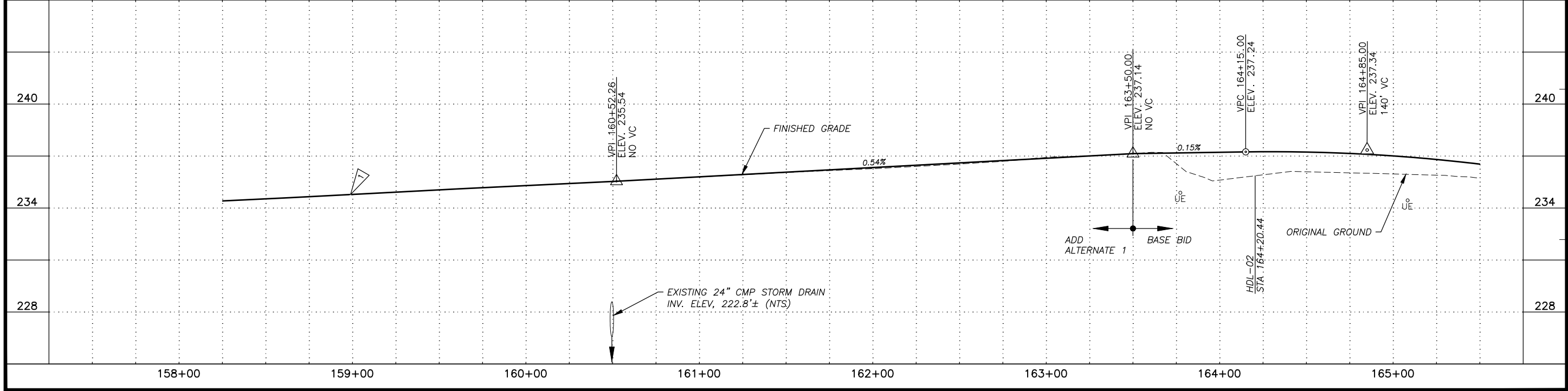
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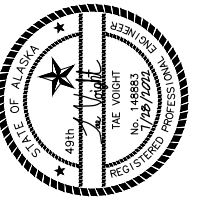
- NOTES:**
- 1 MATCH EXISTING PROFILE GRADE FROM TJ STA 154+67.26 TO STA 163+50.
 - 2 PROTECT EXISTING UTILITIES IN PLACE. VERIFY UTILITY DEPTH PRIOR TO DIGGING.
 - 3 REPLACE SHOULDER SURFACING DISTURBED BY EDGE LIGHT REPLACEMENT WITH 4" RECYCLED ASPHALT PAVEMENT.

END ADD. ALT. 1
 BEGIN PAVEMENT
 "TJ" STA. 163+50
 N=60309.7527
 E=39739.5178

SEE SHEET D1.01 FOR
 TW L REMOVAL. SEE
 ELECTRICAL SHEETS FOR
 ELECTRICAL DEMOLITION



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SHEET TITLE
TAXIWAY J
PLAN & PROFILE
BOP TO 165+50

SHEET
C2.05

DRAWN BY: **CDB** CHECKED BY: **DWL**

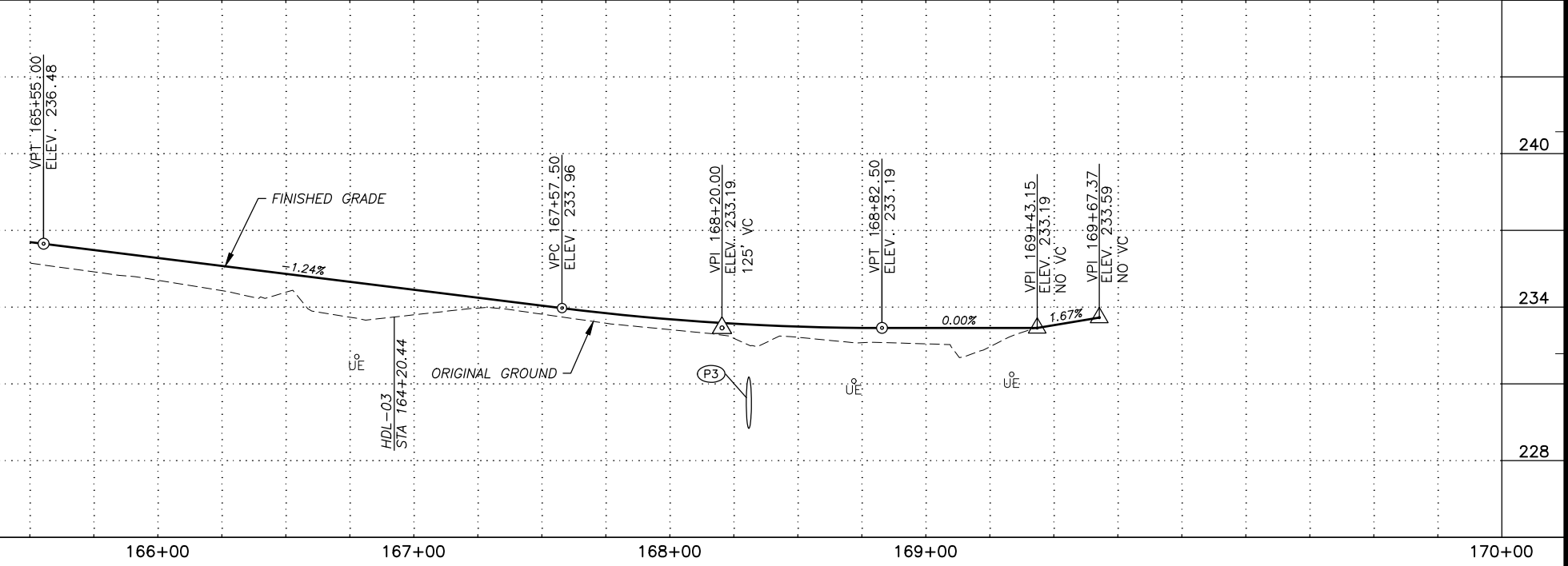
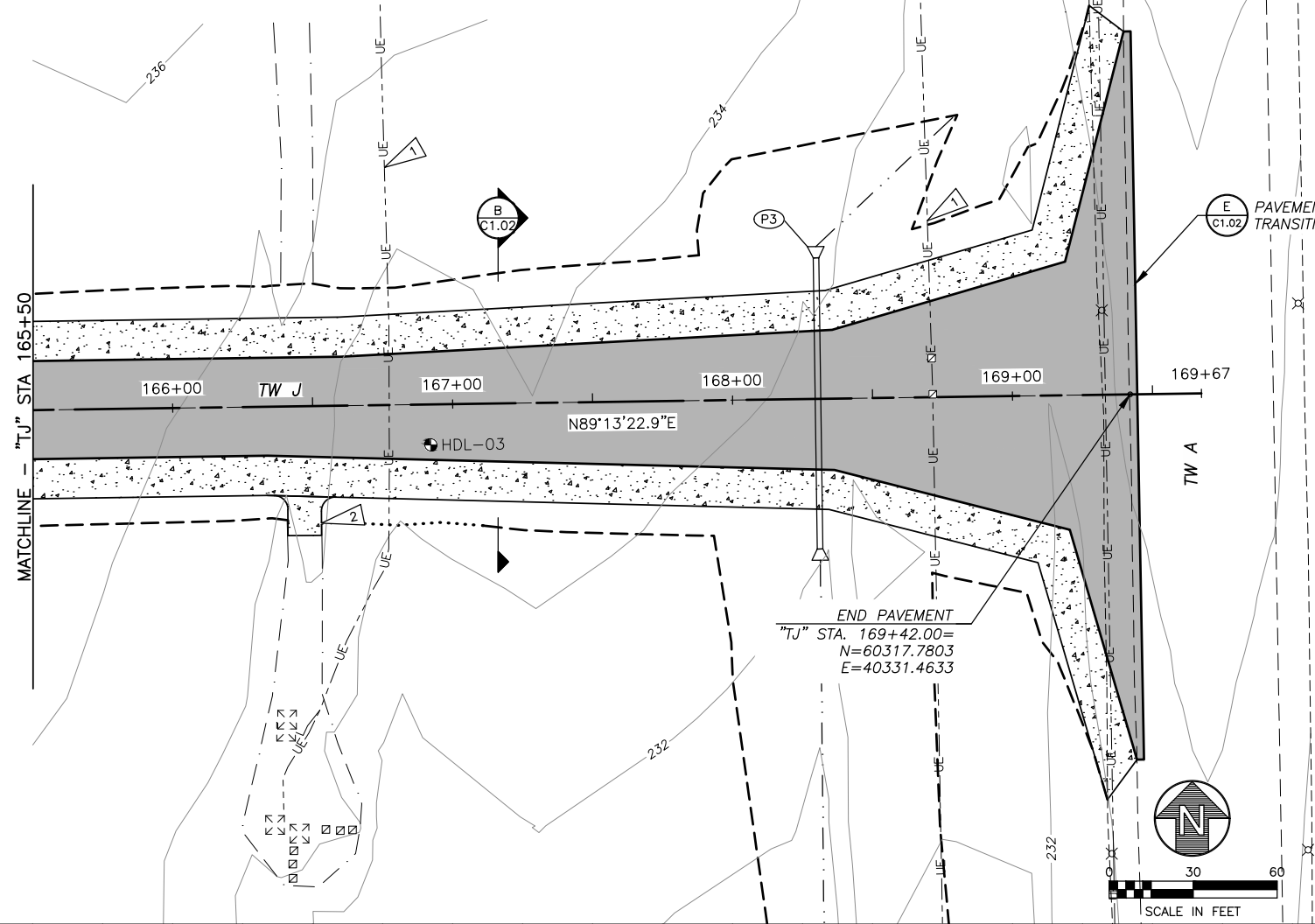
DATE: **JULY 2022** SCALE: **AS NOTED**

JOB NUMBER: **18-001-15**

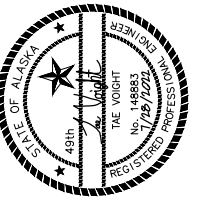
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STORM PIPE SUMMARY										
PIPE	SIZE (IN)	PAY LENGTH (FT)	INLET			OUTLET			SLOPE %	REMARKS
			STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		
P3	24	103.66	"TJ" 168+30.50	54.38 LT	229.50	"TJ" 168+30.50	57.28 RT	229.00	0.45 %	INSTALL 2 END SECTIONS

- NOTES:
- PROTECT EXISTING UTILITIES IN PLACE. VERIFY UTILITY DEPTH PRIOR TO DIGGING. SEE ELECTRICAL SHEETS.
 - CONSTRUCT 12-FOOT WIDE GRAVEL ACCESS TO ASOS. EXTEND SHOULDER SECTION TO 15- FEET AND GRADE TO CONNECT TO EXISTING GRAVEL ACCESS AT 10 PERCENT MAXIMUM.



REVISIONS	MARK	DATE	DESCRIPTION
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SHEET TITLE
**TAXIWAY J
 PLAN & PROFILE
 165+50 TO EOP**

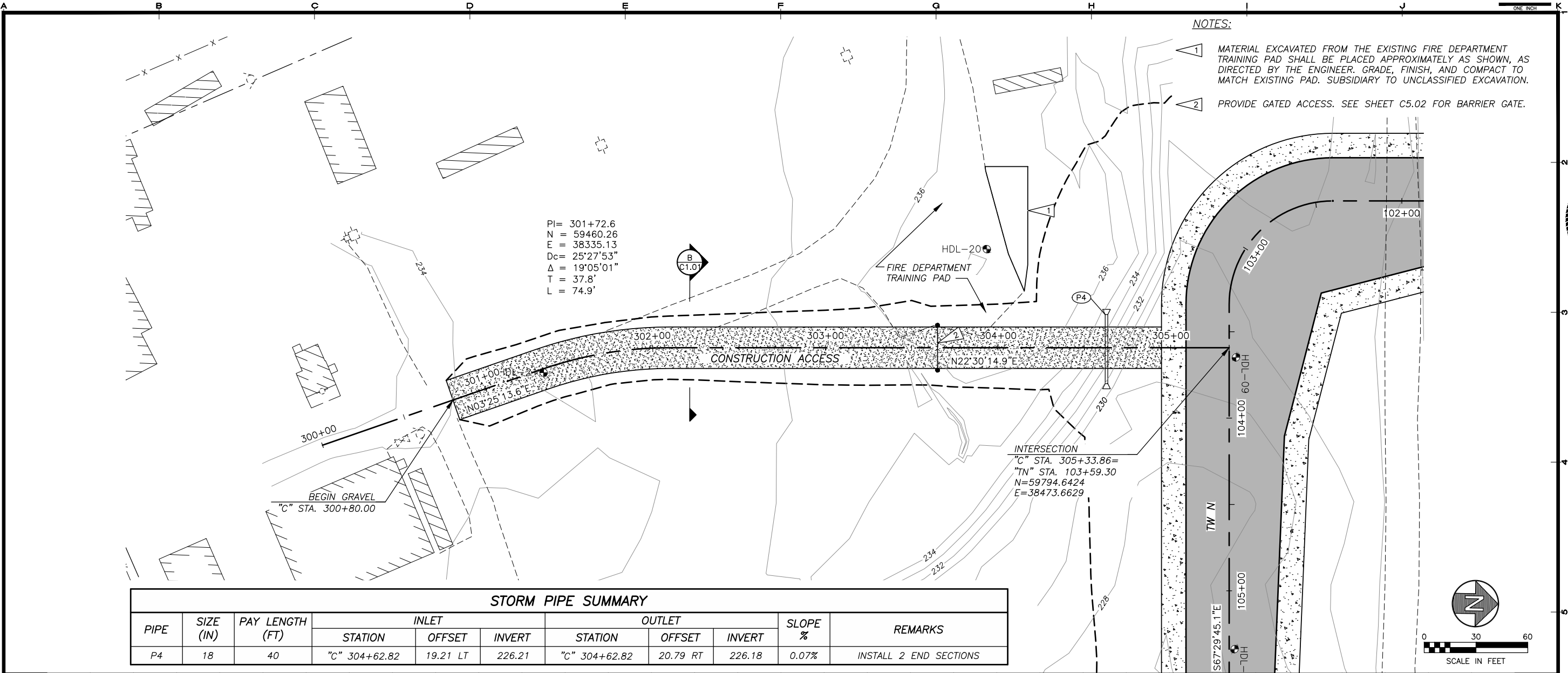
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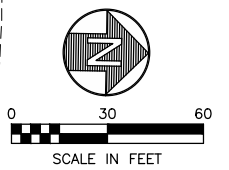
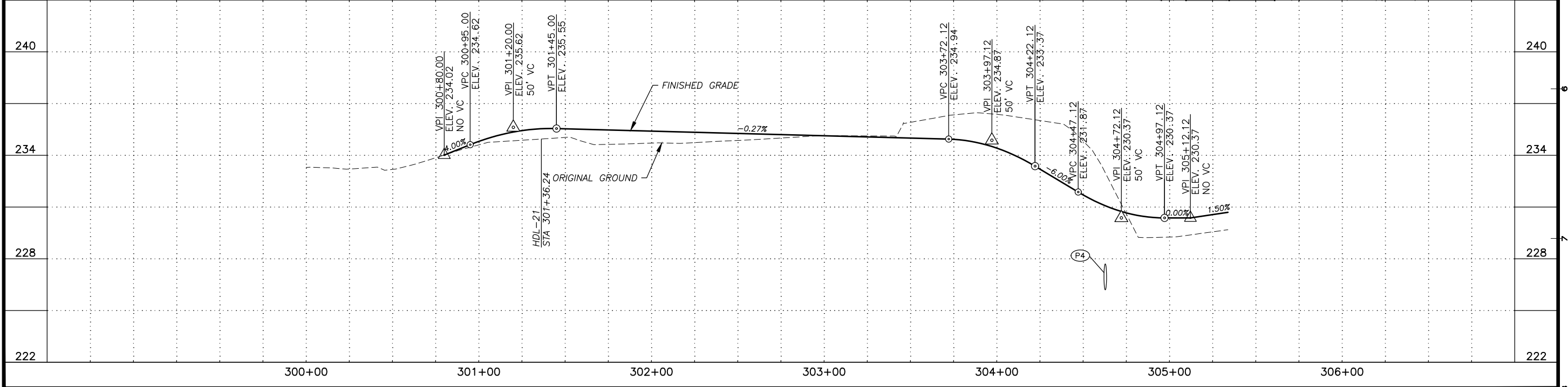
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 18-001-15

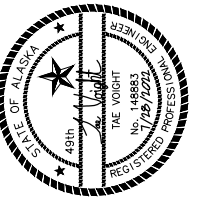
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STORM PIPE SUMMARY										
PIPE	SIZE (IN)	PAY LENGTH (FT)	INLET			OUTLET			SLOPE %	REMARKS
			STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		
P4	18	40	"C" 304+62.82	19.21 LT	226.21	"C" 304+62.82	20.79 RT	226.18	0.07%	INSTALL 2 END SECTIONS



REVISIONS	MARK	DATE	DESCRIPTION
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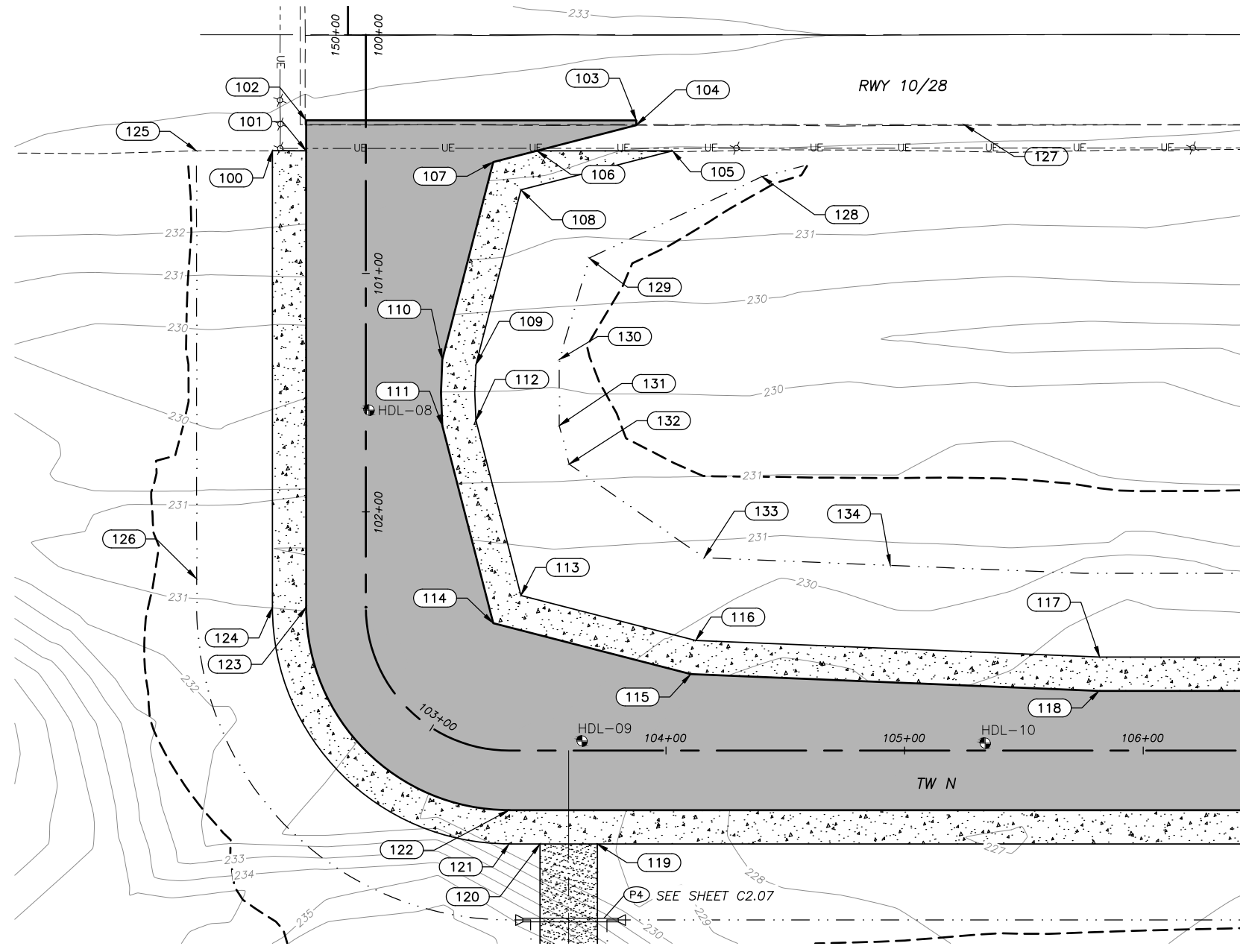
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SHEET TITLE
CONSTRUCTION ACCESS PLAN & PROFILE BOP TO EOP

SHEET
C2.07

DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

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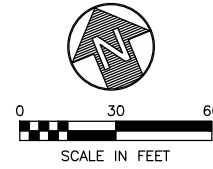


TW N AT RW 10/28 GRADING AND LAYOUT PLAN

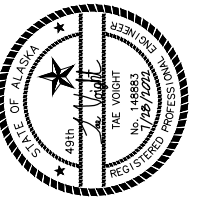
NOTES:

1. SEE ELECTRICAL FOR LIGHTING DETAILS.
2. ALL ELEVATIONS SHOWN ARE FOR TOP OF FINISH GRADE.
3. SEE PROFILE SHEETS WHERE APPLICABLE FOR CENTERLINE ELEVATIONS.

GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
100	100+48.63	39.17 R	ME	EDGE GRAVEL
101	100+48.63	25.00 R	ME	EDGE PAVEMENT
102	100+35.85	25.00 R	ME	EDGE PAVEMENT
103	100+35.91	113.33 L	ME	EDGE PAVEMENT
104	100+37.91	113.33 L	ME	EDGE PAVEMENT
105	100+48.63	128.53 L	ME	EDGE GRAVEL
106	100+48.63	71.70 L	ME	EDGE PAVEMENT
107	100+53.35	53.35 L	231.78	EDGE PAVEMENT
108	100+64.99	64.99 L	230.85	EDGE GRAVEL
109	101+38.24	46.13 L	230.45	EDGE GRAVEL
110	101+36.16	32.04 L	231.29	EDGE PAVEMENT
111	101+63.84	32.04 L	231.11	EDGE PAVEMENT
112	101+61.76	46.13 L	230.29	EDGE GRAVEL
113	102+35.01	64.99 L	230.13	EDGE GRAVEL
114	102+87.12	50.60 L	230.66	EDGE PAVEMENT
115	104+10.41	32.04 L	230.85	EDGE PAVEMENT
116	104+12.49	46.13 L	230.03	EDGE GRAVEL
117	105+81.73	39.17 L	230.05	EDGE GRAVEL
118	105+81.44	25.00 L	230.88	EDGE PAVEMENT
119	103+71.25	39.17 R	230.17	PI
120	103+47.25	39.17 R	230.19	PI
121	103+34.25	39.17 R	230.19	PC, EDGE GRAVEL
122	103+34.25	25.00 R	231.03	PC, EDGE PAVEMENT
123	102+40.00	25.00 R	231.08	PT, EDGE PAVEMENT
124	102+40.00	39.17 R	230.25	PT, EDGE GRAVEL
125	100+48.63	71.00 R	232.69	SPECIAL DITCH
126	102+28.00	71.00 R	226.41	SPECIAL DITCH
127	100+37.66	250.69 L	ME	SPECIAL DITCH
128	100+59.47	165.98 L	231.03	SPECIAL DITCH
129	100+93.59	93.59 L	228.63	SPECIAL DITCH
130	101+36.16	81.04 L	227.97	SPECIAL DITCH
131	101+63.84	81.04 L	227.83	SPECIAL DITCH
132	101+80.00	85.20 L	227.75	SPECIAL DITCH
133	104+16.00	80.81 L	227.60	SPECIAL DITCH
134	104+94.04	77.60 L	227.56	END SPECIAL DITCH



REVISIONS	MARK	DATE	DESCRIPTION
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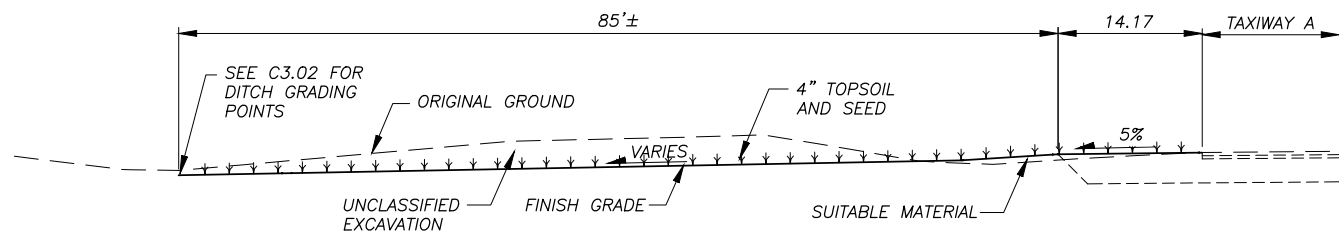
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE
TW N AT RW 10/28 GRADING & LAYOUT PLAN
 SHEET
C3.01
 DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

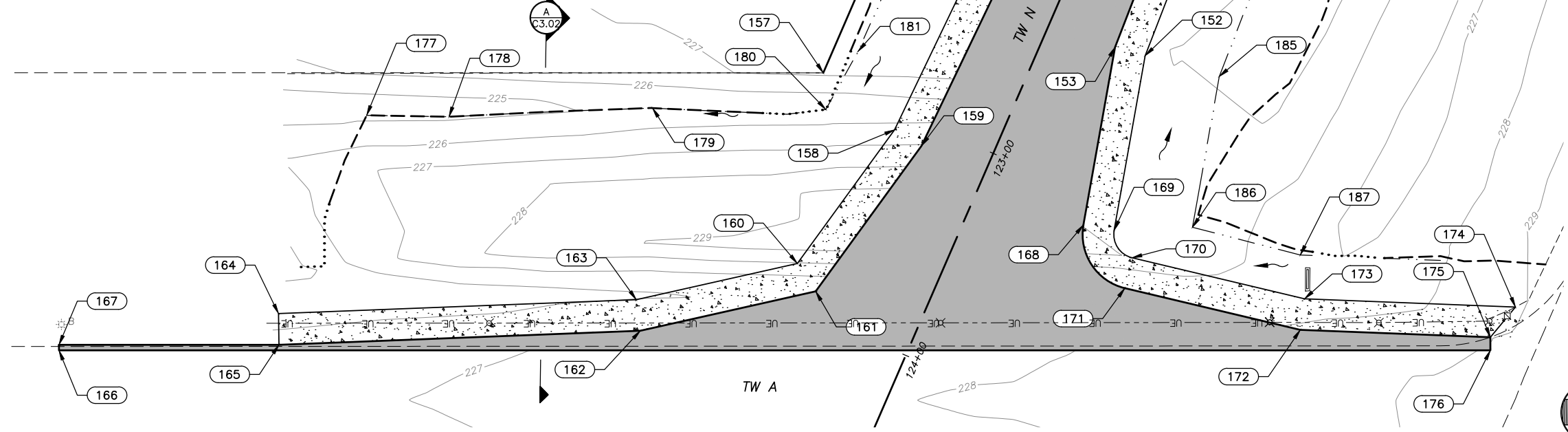
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GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
150	120+66.18	39.17 L	227.87	EDGE GRAVEL
151	120+66.46	25.00 L	228.28	EDGE PAVEMENT
152	122+31.77	45.71 L	226.24	EDGE GRAVEL
153	122+33.71	31.60 L	226.63	EDGE PAVEMENT
154	119+69.27	85.50 R	ME	1.5" BELOW EDGE OF PAVEMENT
155	121+45.51	25.00 R	227.43	EDGE PAVEMENT
156	121+45.24	39.17 R	226.60	EDGE GRAVEL
157	122+97.21	85.50 R	ME	1.5" BELOW EDGE OF PAVEMENT
158	123+08.07	45.43 R	225.75	GRAVEL EDGE
159	123+09.90	31.32 R	226.58	EDGE PAVEMENT
160	123+81.34	61.83 R	226.42	EDGE GRAVEL
161	123+89.65	49.16 R	227.13	EDGE PAVEMENT
162	124+37.78	115.20 R	226.97	EDGE PAVEMENT
163	124+25.57	122.50 R	226.38	EDGE GRAVEL
164	124+96.13	269.26 R	ME	EDGE GRAVEL
165	125+09.06	263.43 R	ME	EDGE PAVEMENT
166	125+51.20	354.19 R	ME	EDGE PAVEMENT
167	125+48.91	355.19 R	ME	EDGE PAVEMENT
168	123+13.51	50.56 L	226.32	PC, EDGE PAVEMENT

GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
169	123+10.23	64.34 L	225.91	PT, EDGE GRAVEL
170	123+18.39	76.78 L	225.69	PC, EDGE GRAVEL
171	123+32.34	79.27 L	227.80	PT, EDGE PAVEMENT
172	123+17.94	160.02 L	228.41	EDGE PAVEMENT
173	123+04.23	156.17 L	227.58	EDGE GRAVEL
174	122+69.49	245.66 L	ME	EDGE GRAVEL
175	122+86.64	240.65 L	ME	EDGE PAVEMENT
176	122+92.10	243.02 L	ME	EDGE PAVEMENT
177	123+97.54	268.30 R	224.27	SPECIAL DITCH
178	123+83.25	233.68 R	224.35	SPECIAL DITCH
179	123+42.80	150.35 R	224.69	SPECIAL DITCH
180	123+12.00	77.79 R	225.20	SPECIAL DITCH
181	122+81.99	74.88 R	225.30	SPECIAL DITCH
182	119+60.00	71.00 R	226.50	SPECIAL DITCH
183	119+30.00	71.00 R	226.34	SPECIAL DITCH
184	120+66.44	74.60 L	225.71	SPECIAL DITCH
185	122+27.01	80.38 L	225.75	SPECIAL DITCH
186	122+94.74	96.46 L	226.41	SPECIAL DITCH
187	122+86.75	146.47 L	226.58	SPECIAL DITCH

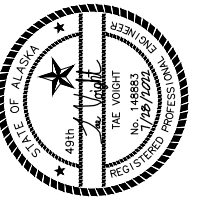


A DRAINAGE SECTION
 SCALE: NONE



TW N AT TW A GRADING AND LAYOUT PLAN

REVISIONS	MARK	DATE	DESCRIPTION
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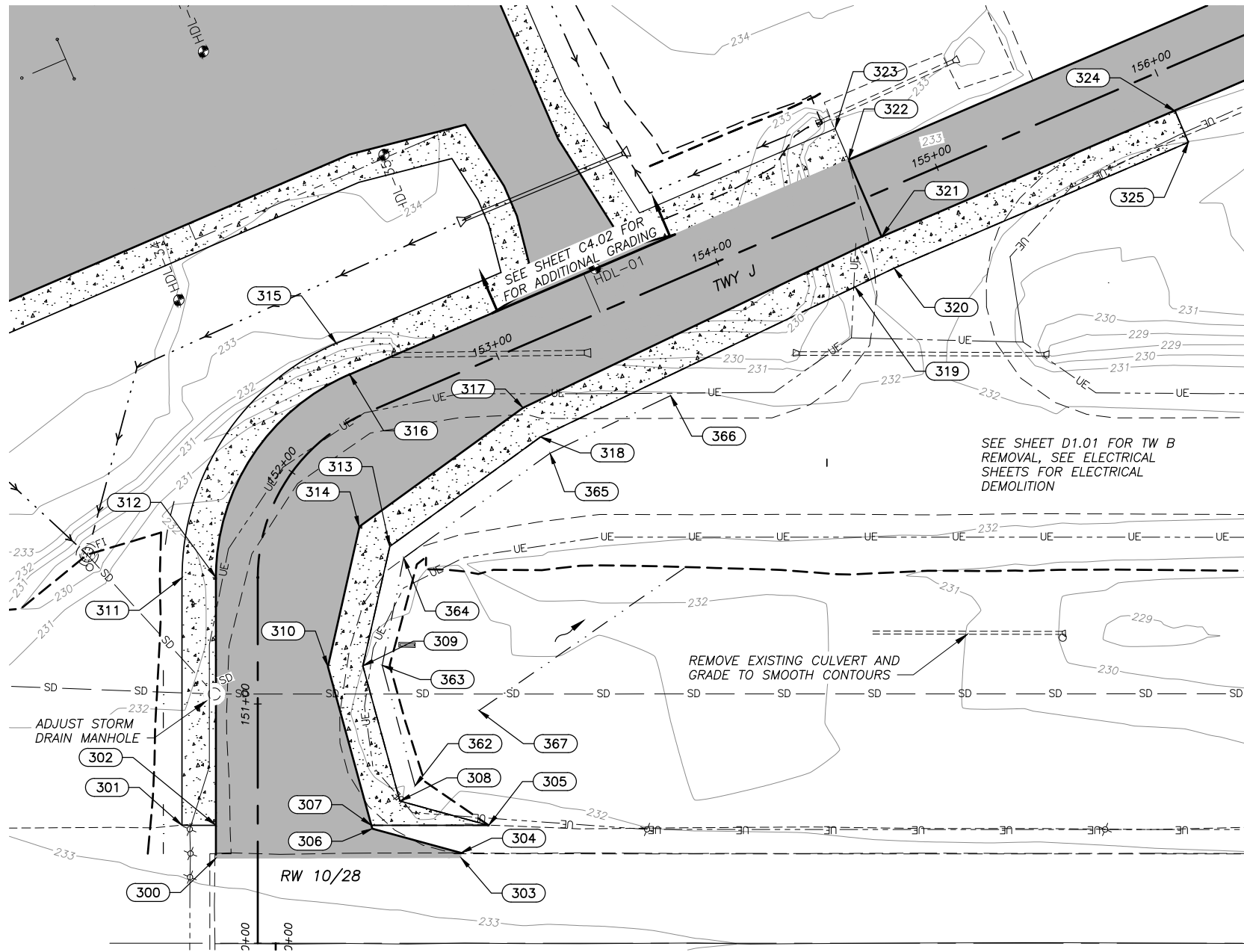


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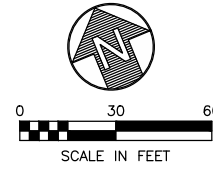
SHEET TITLE
TW N AT TW A GRADING & LAYOUT PLAN
 SHEET
C3.02
 DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

H:\jobs\18-001 palmer airport term (cop)\15 taxiway n design\CAD\Drawings\18001_15_C301_1=1_07-20-22 at 13:08 by jkk
 LAYOUT: C3.05
 XREF: 18001_15_X_BD01, 18001_15_X_E_HATCH, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD, 18001_15_X_X01, GRADING

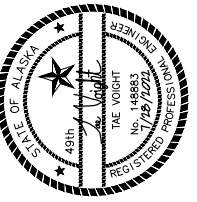


TW J AT RW 10/28 GRADING AND LAYOUT PLAN

GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
300	150+35.54	17.50 L	ME	EDGE PAVEMENT
301	150+49.27	31.67 L	ME	EDGE GRAVEL
302	150+49.27	17.50 L	ME	EDGE PAVEMENT
303	150+35.73	85.01 R	ME	EDGE PAVEMENT
304	150+37.73	85.01 R	ME	EDGE PAVEMENT
305	150+49.26	96.59 R	ME	EDGE GRAVEL
306	150+47.88	47.88 R	ME	EDGE PAVEMENT
307	150+49.26	47.51 R	ME	EDGE PAVEMENT
308	150+59.42	59.42 R	231.51	EDGE GRAVEL
309	151+15.97	43.96 R	231.31	EDGE GRAVEL
310	151+15.65	29.36 R	232.15	EDGE PAVEMENT
311	151+52.85	31.67 L	231.67	PT, EDGE GRAVEL
312	151+52.85	17.50 L	232.51	PT, EDGE PAVEMENT
313	151+96.52	51.31 R	231.30	EDGE GRAVEL
314	151+96.18	36.11 R	232.15	EDGE PAVEMENT
315	152+40.19	31.67 L	231.72	PC, EDGE GRAVEL
316	152+40.19	17.50 L	232.55	PC, EDGE PAVEMENT
317	153+01.29	23.97 R	232.27	EDGE PAVEMENT
318	153+03.14	38.08 R	231.44	EDGE GRAVEL
319	154+48.80	32.40 R	231.65	EDGE GRAVEL
320	154+66.89	31.67 R	231.67	EDGE GRAVEL
321	154+67.32	17.50 R	232.50	EDGE PAVEMENT
322	154+67.32	17.50 L	ME	EDGE PAVEMENT
323	154+67.32	31.67 L	ME	EDGE GRAVEL
324	156+00.81	17.79 R	ME	EDGE PAVEMENT
325	156+00.78	31.96 R	ME	EDGE GRAVEL
362	150+65.79	65.79 R	231.29	DITCH GRADING
363	151+16.16	52.03 R	231.07	DITCH GRADING
364	151+93.11	58.79 R	230.92	DITCH GRADING
365	153+04.16	45.87 R	231.06	DITCH GRADING
366	153+60.00	43.68 R	231.20	DITCH GRADING
367	150+97.25	92.52 R	ME	ME/GRADE TO DRAIN



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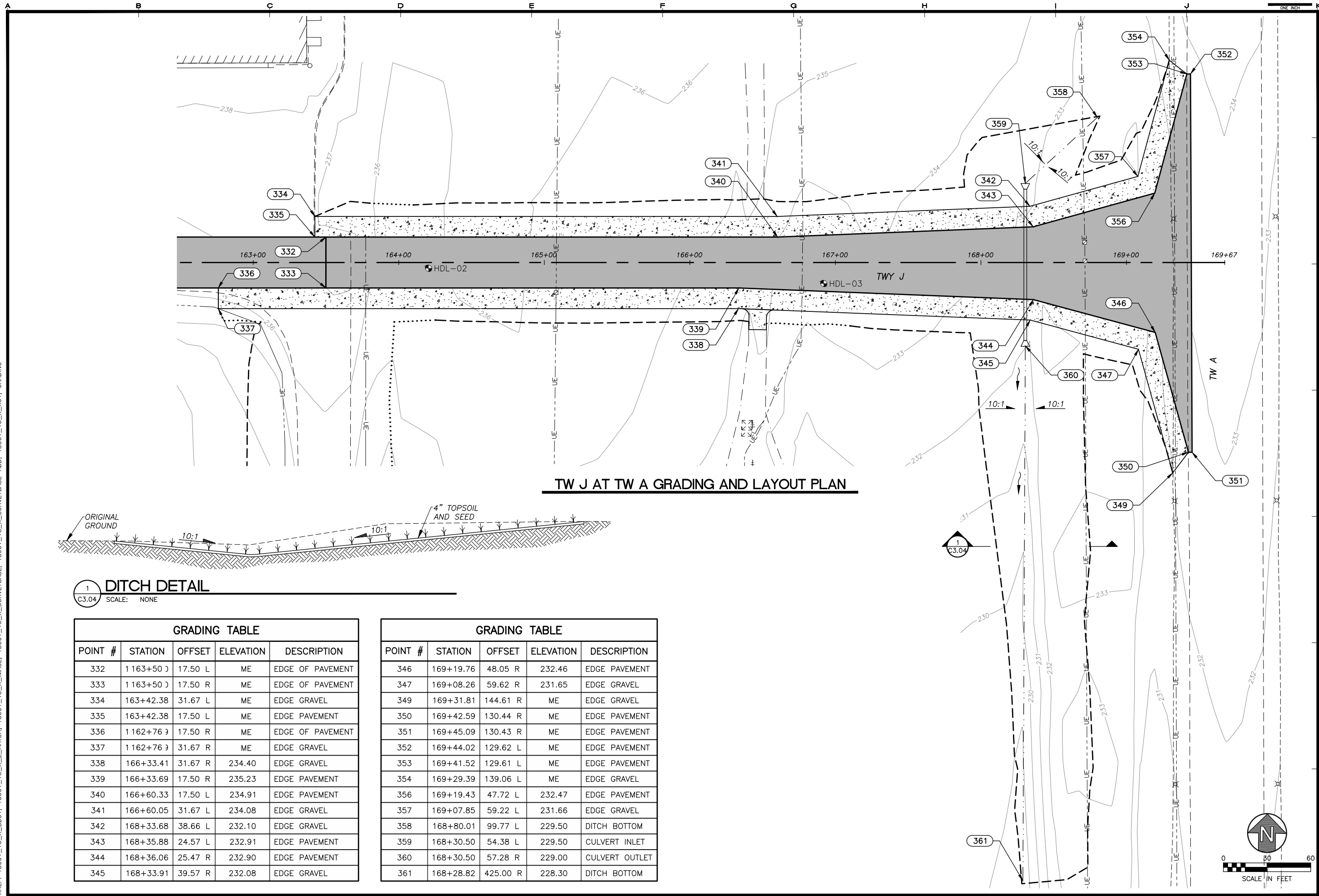
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
 WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE
**TW J AT RW 10/28
 GRADING & LAYOUT
 PLAN**

SHEET
C3.03

DRAWN BY: **CDB** CHECKED BY: **DWL**
 DATE: **JULY 2022** SCALE: **AS NOTED**
 JOB NUMBER: **18-001-15**

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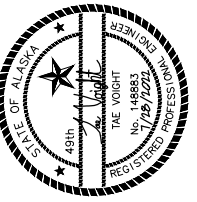
TW J AT TW A GRADING AND LAYOUT PLAN

1 DITCH DETAIL
 C3.04 SCALE: NONE

GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
332	1163+50.0	17.50 L	ME	EDGE OF PAVEMENT
333	1163+50.0	17.50 R	ME	EDGE OF PAVEMENT
334	163+42.38	31.67 L	ME	EDGE GRAVEL
335	163+42.38	17.50 L	ME	EDGE PAVEMENT
336	1162+76.3	17.50 R	ME	EDGE OF PAVEMENT
337	1162+76.3	31.67 R	ME	EDGE GRAVEL
338	166+33.41	31.67 R	234.40	EDGE GRAVEL
339	166+33.69	17.50 R	235.23	EDGE PAVEMENT
340	166+60.33	17.50 L	234.91	EDGE PAVEMENT
341	166+60.05	31.67 L	234.08	EDGE GRAVEL
342	168+33.68	38.66 L	232.10	EDGE GRAVEL
343	168+35.88	24.57 L	232.91	EDGE PAVEMENT
344	168+36.06	25.47 R	232.90	EDGE PAVEMENT
345	168+33.91	39.57 R	232.08	EDGE GRAVEL

GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
346	169+19.76	48.05 R	232.46	EDGE PAVEMENT
347	169+08.26	59.62 R	231.65	EDGE GRAVEL
349	169+31.81	144.61 R	ME	EDGE GRAVEL
350	169+42.59	130.44 R	ME	EDGE PAVEMENT
351	169+45.09	130.43 R	ME	EDGE PAVEMENT
352	169+44.02	129.62 L	ME	EDGE PAVEMENT
353	169+41.52	129.61 L	ME	EDGE PAVEMENT
354	169+29.39	139.06 L	ME	EDGE GRAVEL
356	169+19.43	47.72 L	232.47	EDGE PAVEMENT
357	169+07.85	59.22 L	231.66	EDGE GRAVEL
358	168+80.01	99.77 L	229.50	DITCH BOTTOM
359	168+30.50	54.38 L	229.50	CULVERT INLET
360	168+30.50	57.28 R	229.00	CULVERT OUTLET
361	168+28.82	425.00 R	228.30	DITCH BOTTOM

REVISIONS	MARK	DATE	DESCRIPTION
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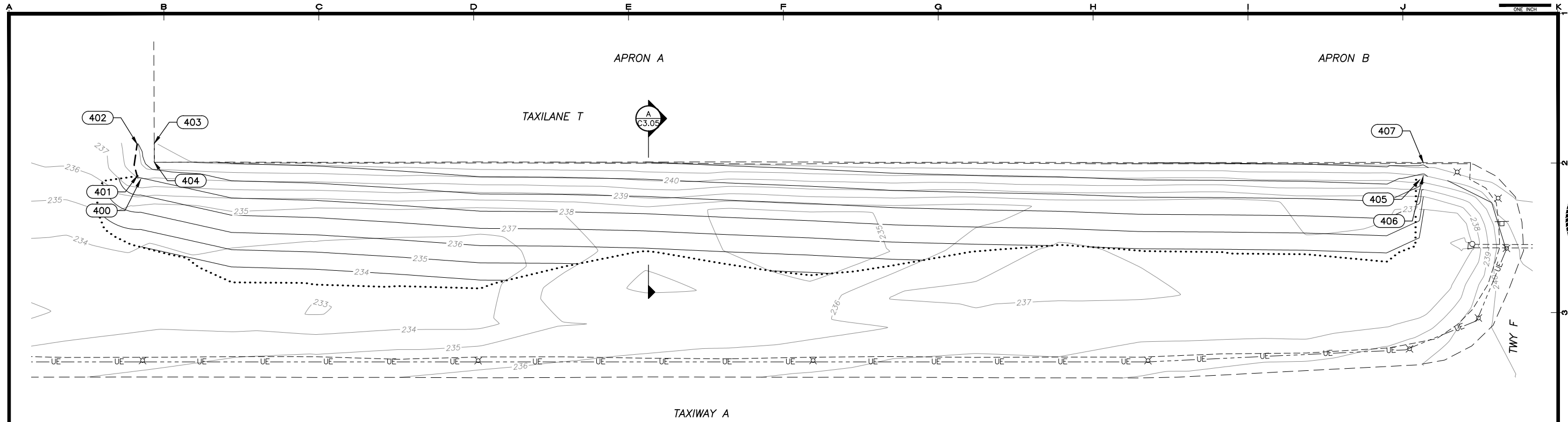
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SHEET TITLE
TW J AT TW A GRADING & LAYOUT PLAN

SHEET
C3.04

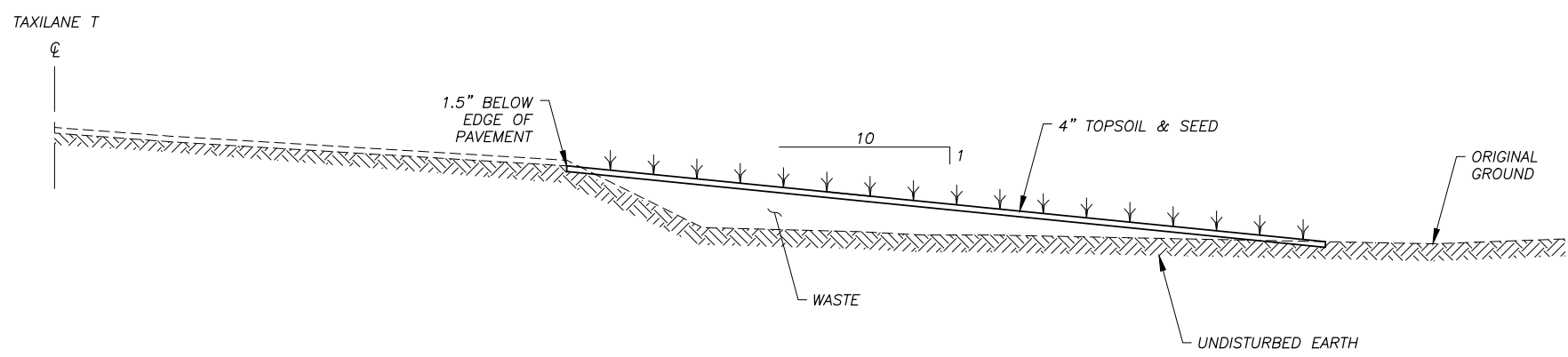
DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

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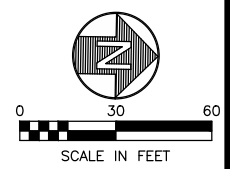
TAXILANE T - APRON A-B GRADING PLAN

GRADING AND LAYOUT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
400	60735.5380	40209.61	237.90	GRADE POINT
401	60733.5001	40207.64	238.08	GRADE POINT
402	60733.1920	40189.07	238.94	GRADE POINT
403	60743.1830	40188.44	ME	1.5" BELOW EDGE OF PAVEMENT
404	60743.3657	40199.46	ME	1.5" BELOW EDGE OF PAVEMENT
405	61478.7567	40197.15	240.25	GRADE POINT
406	61480.7422	40195.12	240.74	GRADE POINT
407	61480.6458	40187.14	ME	1.5" BELOW EDGE OF PAVEMENT

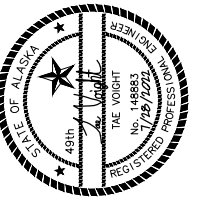


TAXILANE T - APRON A, B, AND C SECTION
 SCALE: NONE

- NOTES:**
- FILL AREA AS SHOWN WITH UNSUITABLE OR EXCESS EXCAVATION FREE OF STUMPS, TRASH, OR DEBRIS.
 - FINISH GRADES SHALL BE SMOOTH CONTOURS WITH POSITIVE DRAINAGE TO EXISTING FIELD INLETS.



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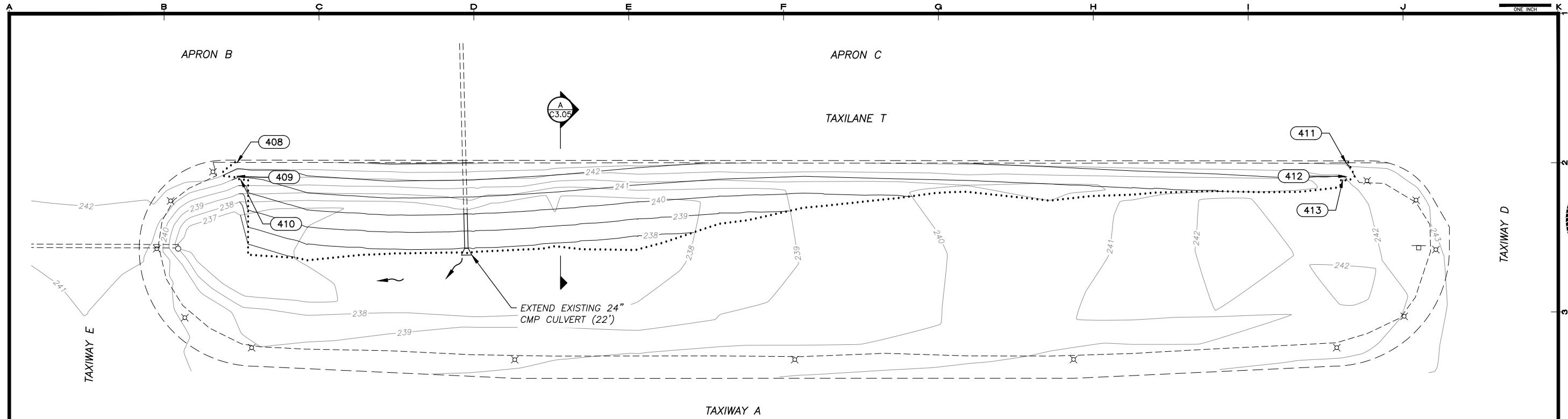
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SHEET TITLE
TAXIWAY A GRADING PLAN APRON A-B

SHEET
C3.05

DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

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 LAYOUT: C3.09
 XREF: 18001_15_X_BD01, 18001_15_X_E_HATCH, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD, 18001_15_X_X01, GRADING

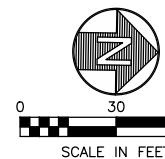


TAXILANE T - APRON B-C GRADING PLAN

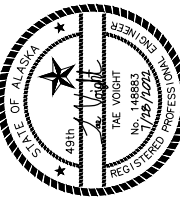
NOTES:

1. FILL AREA AS SHOWN WITH UNSUITABLE OR EXCESS EXCAVATION FREE OF STUMPS, TRASH, OR DEBRIS.
2. FINISH GRADES SHALL BE SMOOTH CONTOURS WITH POSITIVE DRAINAGE TO EXISTING FIELD INLETS.

GRADING AND LAYOUT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
408	61659.7471	40184.18	ME	1.5" BELOW EDGE OF PAVEMENT
409	61659.8789	40192.18	241.08	GRADE POINT
410	61661.9116	40194.15	240.62	GRADE POINT
411	62304.0189	40173.41	ME	1.5" BELOW EDGE OF PAVEMENT
412	62304.2611	40181.41	242.10	GRADE POINT
413	62302.3225	40183.47	241.65	GRADE POINT



REVISIONS	MARK	DATE	DESCRIPTION
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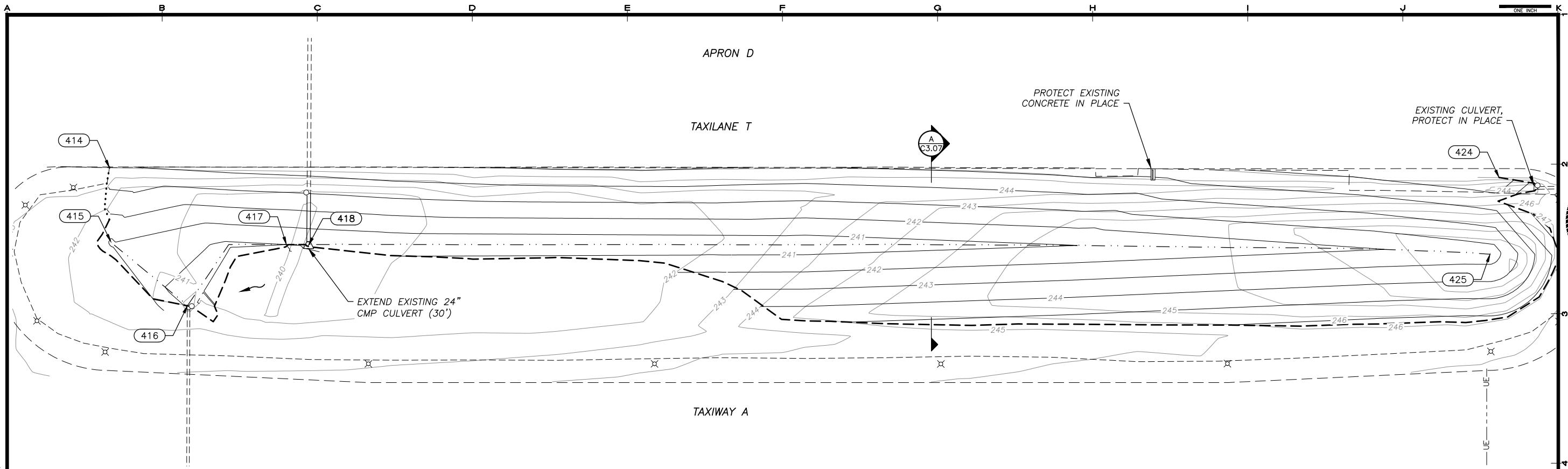
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE
**TAXILANE T
 GRADING PLAN
 APRON B-C**

SHEET
C3.06

DRAWN BY: **CDB** CHECKED BY: **DWL**
 DATE: **JULY 2022** SCALE: **AS NOTED**
 JOB NUMBER: **18-001-15**

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 LAYOUT: C3.10
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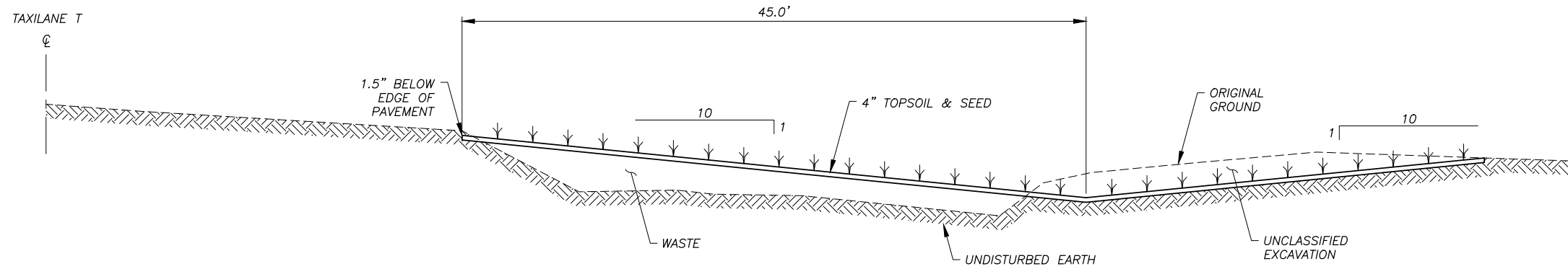


TAXILANE T - APRON D GRADING PLAN

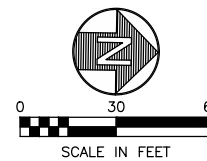
NOTES:

1. FILL AREA AS SHOWN WITH UNSUITABLE OR EXCESS EXCAVATION FREE OF STUMPS, TRASH, OR DEBRIS.
2. FINISH GRADES SHALL BE SMOOTH CONTOURS WITH POSITIVE DRAINAGE TO EXISTING FIELD INLETS.

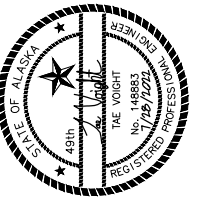
GRADING AND LAYOUT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
414	62496.4461	40170.82	ME	1.5" BELOW EDGE OF PAVEMENT
415	62497.9990	40213.79	240.88	GRADE POINT
416	62543.1089	40250.09	242.53	DITCH BOTTOM
417	62599.8787	40213.68	240.29	DITCH BOTTOM
418	62612.7382	40213.79	240.08	DITCH BOTTOM
424	63302.8632	40162.78	ME	1.5" BELOW EDGE OF PAVEMENT
425	63298.4144	40207.41	242.41	DITCH BOTTOM



TAXILANE T - APRON D SECTION
 SCALE: NONE



REVISIONS	MARK	DATE	DESCRIPTION
1			
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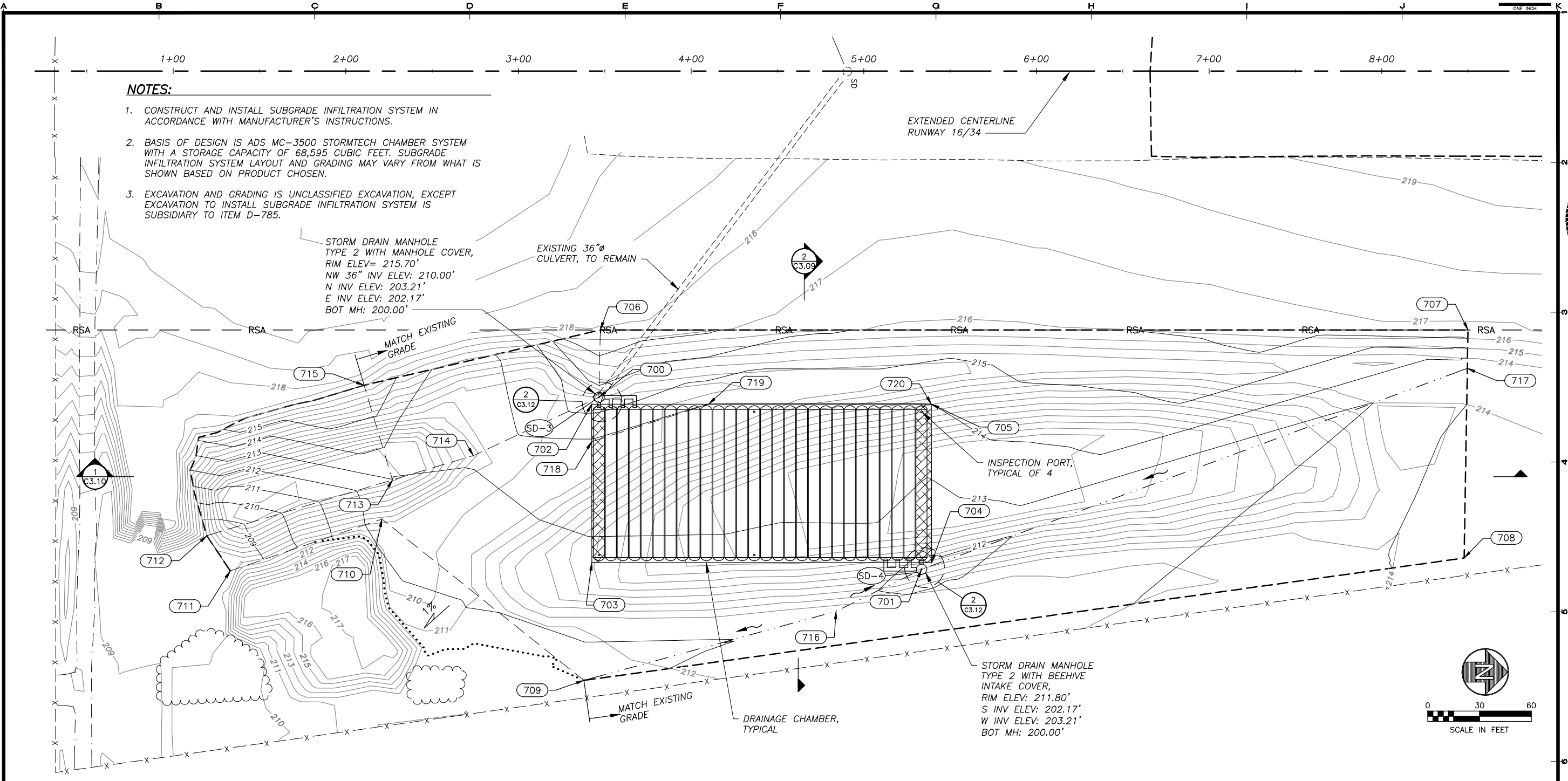
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 PALMER, ALASKA

SHEET TITLE
TAXILANE T GRADING PLAN APRON D

SHEET
C3.07

DRAWN BY: **CDB** CHECKED BY: **DWL**
 DATE: **JULY 2022** SCALE: **AS NOTED**
 JOB NUMBER: **18-001-15**

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- NOTES:**
1. CONSTRUCT AND INSTALL SUBGRADE INFILTRATION SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. BASIS OF DESIGN IS ADS MC-3500 STORMTECH CHAMBER SYSTEM WITH A STORAGE CAPACITY OF 68,595 CUBIC FEET. SUBGRADE INFILTRATION SYSTEM LAYOUT AND GRADING MAY VARY FROM WHAT IS SHOWN BASED ON PRODUCT CHOSEN.
 3. EXCAVATION AND GRADING IS UNCLASSIFIED EXCAVATION, EXCEPT EXCAVATION TO INSTALL SUBGRADE INFILTRATION SYSTEM IS SUBSIDIARY TO ITEM D-785.

STORM DRAIN MANHOLE
 TYPE 2 WITH MANHOLE COVER,
 RIM ELEV= 215.70'
 NW 36" INV ELEV: 210.00'
 N INV ELEV: 203.21'
 E INV ELEV: 202.17'
 BOT MH: 200.00'

STORM DRAIN MANHOLE
 TYPE 2 WITH BEEHIVE
 INTAKE COVER,
 RIM ELEV: 211.80'
 S INV ELEV: 202.17'
 W INV ELEV: 203.21'
 BOT MH: 200.00'

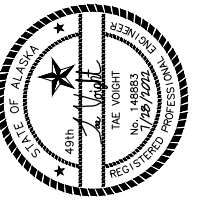
1 PLAN - SUBGRADE INFILTRATION SYSTEM 1
 SCALE: 1" = 30.0'

SUBGRADE INFILTRATION SYSTEM 1 LAYOUT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
700	3+46.59	189.00 RT	215.7	MANHOLE CENTER RIM
701	5+33.43	288.70 RT	211.8	MANHOLE CENTER RIM
702	3+42.38	193.00 RT	202.0	CHAMBER CORNER BOTTOM
703	3+42.57	284.72 RT	202.0	CHAMBER CORNER BOTTOM
704	5+39.31	284.71 RT	202.0	CHAMBER CORNER BOTTOM
705	5+39.13	192.99 RT	202.0	CHAMBER CORNER BOTTOM
706	4+77.66	144.81 RT	ME	TOP GRADE
707	8+49.94	151.13 RT	ME	TOP GRADE

SUBGRADE INFILTRATION SYSTEM 1 LAYOUT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
708	8+47.71	282.80 RT	ME	TOP GRADE
709	3+37.98	353.31 RT	ME	TOP GRADE
710	2+20.97	259.53 RT	212.5	TOP GRADE
711	1+33.08	289.52 RT	ME	TOP GRADE
712	1+19.52	269.15 RT	ME	TOP GRADE
713	0+98.86	212.32 RT	213.0	TOP GRADE
714	3+47.38	147.93 RT	213.1	TOP GRADE
715	2+01.83	185.65 RT	ME	TOP GRADE

SUBGRADE INFILTRATION SYSTEM 1 LAYOUT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
716	4+83.96	312.93 RT	212.2	GRADE BREAK
717	8+49.59	172.71 RT	213.3± ME	BEGIN SWALE
718	3+42.43	214.64 RT	214.0	GRADE BREAK
719	4+10.12	193.00 RT	214.0	GRADE BREAK
720	5+39.13	192.99 RT	214.0	GRADE BREAK

REVISIONS	MARK	DATE	DESCRIPTION
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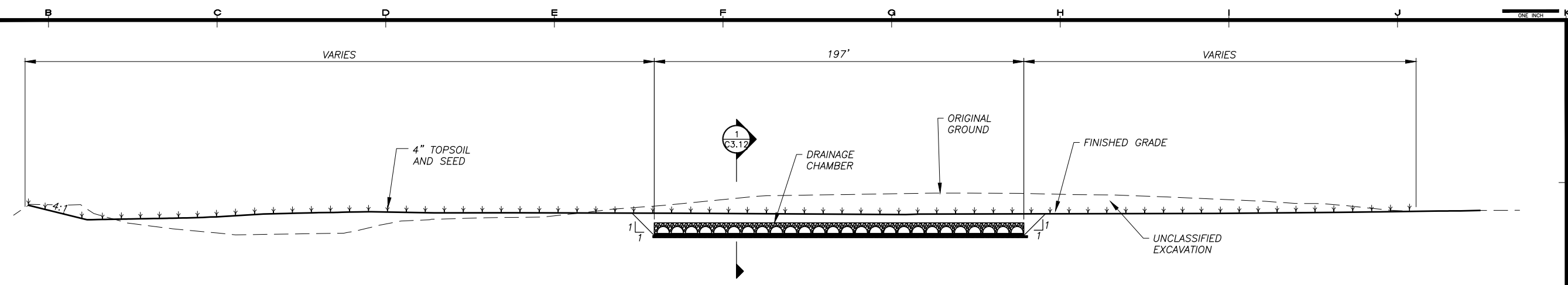


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 AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE
SUBGRADE INFILTRATION SYSTEM 1 PLAN
 SHEET
C3.08
 DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

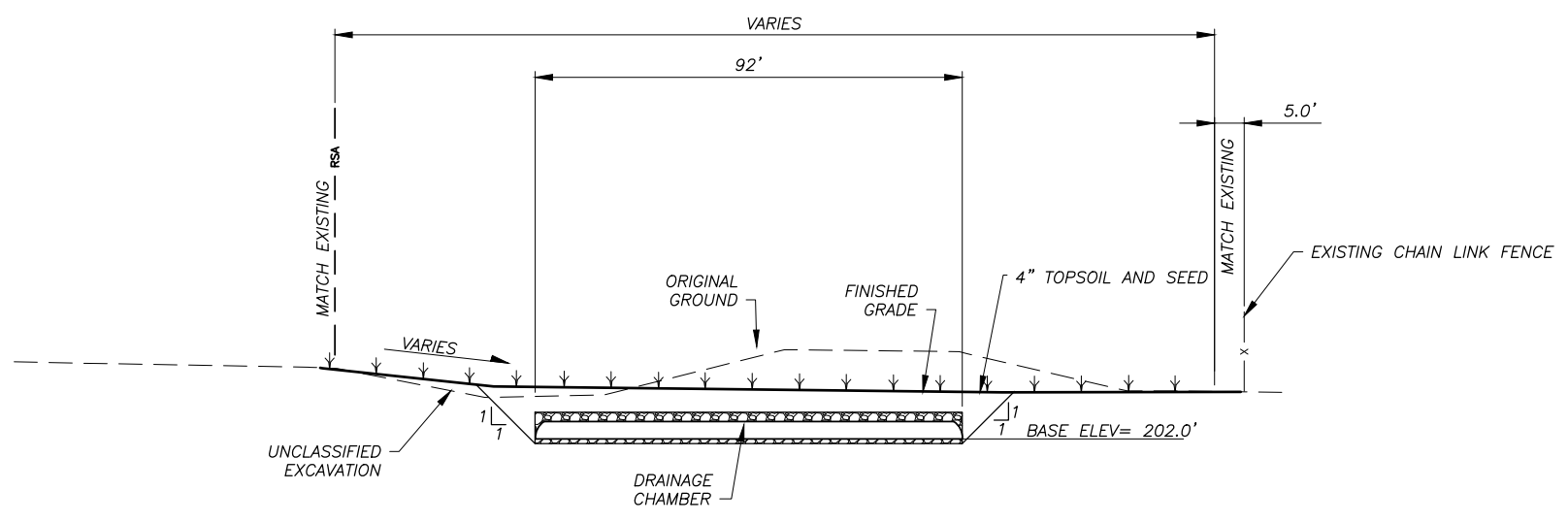
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 XREF: 18001_15_X_X01, 18001_15_X_BD01, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD



1 SOUTH / NORTH SECTION - SUBGRADE INFILTRATION SYSTEM 1
 SCALE: 1" = 30.0'

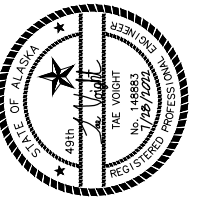
NOTES:

- EXCAVATION FROM ORIGINAL GROUND TO FINISH GRADE IS UNCLASSIFIED EXCAVATION PER ITEM D-785.



2 WEST / EAST SECTION - SUBGRADE INFILTRATION SYSTEM 1
 SCALE: 1" = 20.0'

REVISIONS	MARK	DATE	DESCRIPTION
1			
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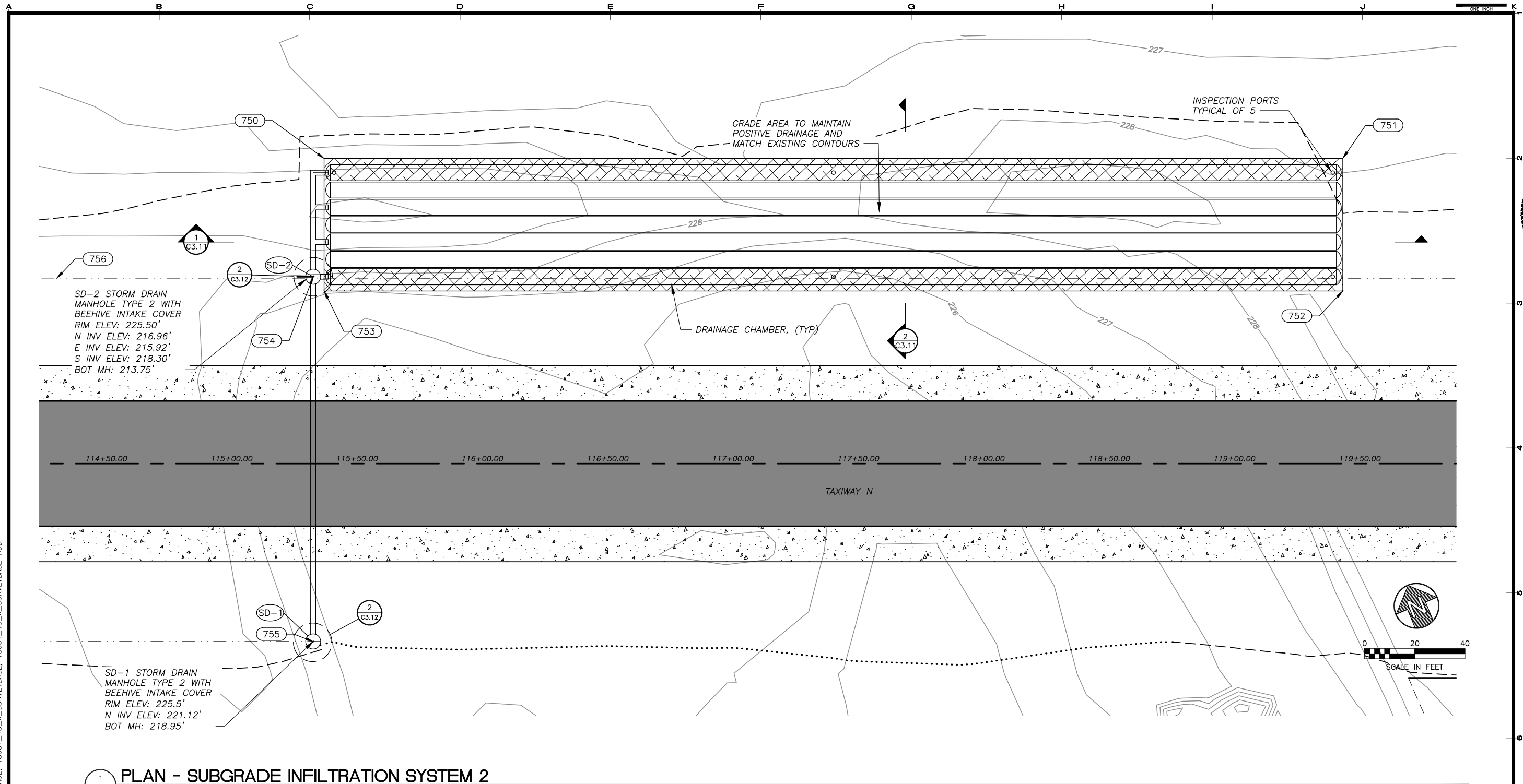


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SHEET TITLE	
SUBGRADE INFILTRATION SYSTEM 1 SECTIONS	
SHEET	
C3.09	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

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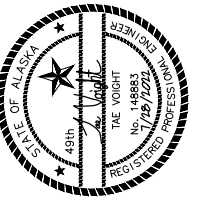
1 PLAN - SUBGRADE INFILTRATION SYSTEM 2
 C3.10 SCALE: 1" = 20.0'

NOTES:

1. CONSTRUCT AND INSTALL SUBGRADE INFILTRATION SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. BASIS OF DESIGN IS ADS MC-3500 STORMTECH CHAMBER SYSTEM WITH A STORAGE CAPACITY OF 72,400 CUBIC FEET. SUBGRADE INFILTRATION SYSTEM LAYOUT AND GRADING MAY VARY FROM WHAT IS SHOWN BASED ON PRODUCT CHOSEN.
3. EXCAVATION AND GRADING IS UNCLASSIFIED EXCAVATION, EXCEPT EXCAVATION TO INSTALL SUBGRADE INFILTRATION SYSTEM IS SUBSIDIARY TO D-785.

SUBGRADE INFILTRATION SYSTEM 2 LAYOUT TABLE				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
750	115+36.60	121.8 LT	215.8	CHAMBER CORNER BOTTOM
751	119+42.95	121.8 LT	215.8	CHAMBER CORNER BOTTOM
752	119+42.95	68.9 LT	215.8	CHAMBER CORNER BOTTOM
753	115+36.60	68.9 LT	215.8	CHAMBER CORNER BOTTOM
754	115+32.25	74.6 LT	225.5	MANHOLE CENTER RIM
755	115+32.25	71.0 RT	225.5	MANHOLE CENTER RIM
756	114+30.00	74.0 LT	227.1	DITCH GRADING

REVISIONS	MARK	DATE	DESCRIPTION
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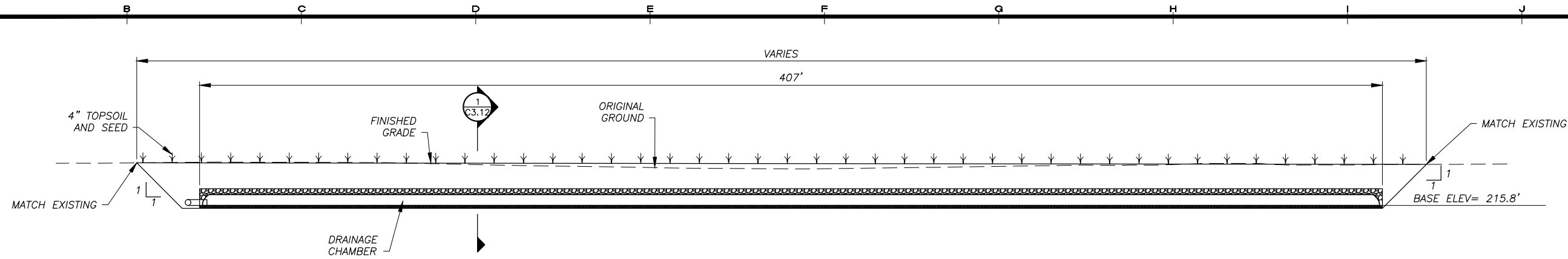
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SHEET TITLE
 SUBGRADE INFILTRATION SYSTEM 2 PLAN

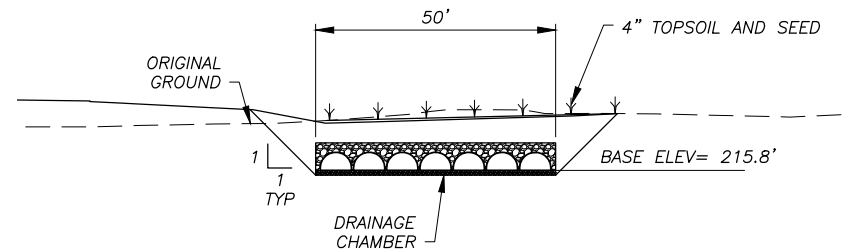
SHEET
C3.10

DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

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 XREF: 18001_15_X_X01, 18001_15_X_BD01, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD



1 WEST / EAST SECTION - SUBGRADE INFILTRATION SYSTEM 2
 SCALE: 1" = 20.0'

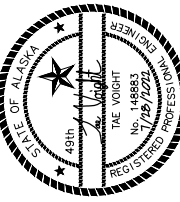


2 NORTH / SOUTH SECTION - SUBGRADE INFILTRATION SYSTEM 2
 SCALE: 1" = 20.0'

NOTES:

- EXCAVATION FROM ORIGINAL GROUND TO FINISHED GRADE IS UNCLASSIFIED EXCAVATION PER ITEM D-785.

REVISIONS	MARK	DATE	DESCRIPTION
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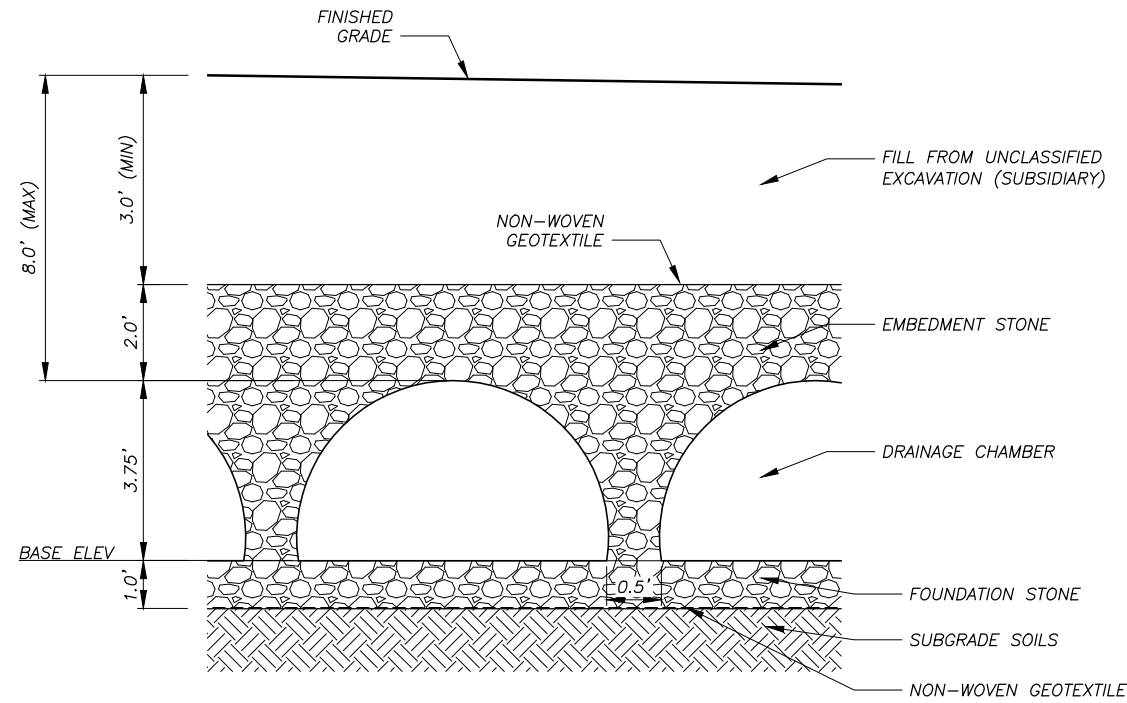


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 REGISTERED PROFESSIONAL ENGINEER

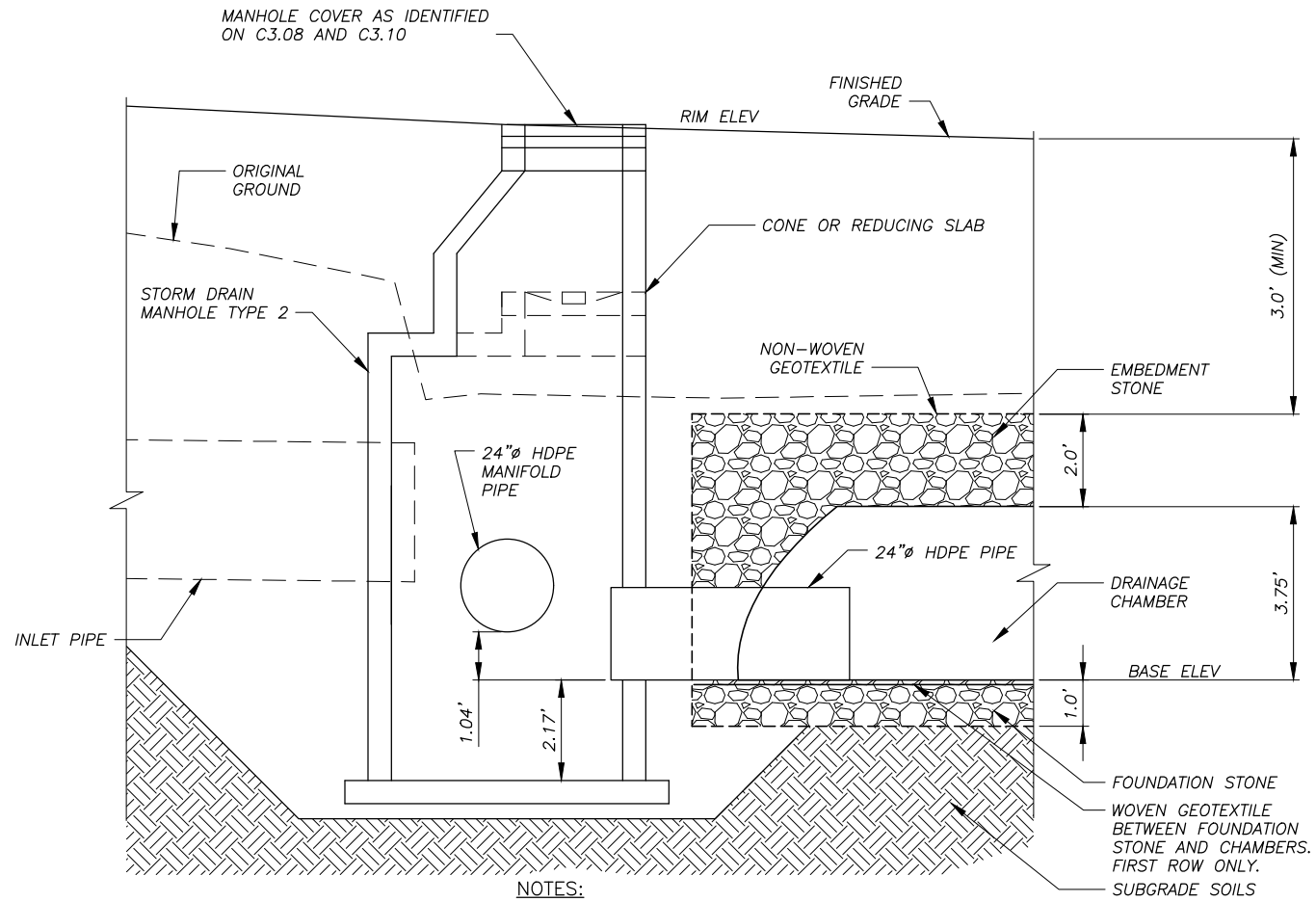
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 AND CONSTRUCT APRON E
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SHEET TITLE	
SUBGRADE INFILTRATION SYSTEM 2 SECTIONS	
SHEET	
C3.11	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	

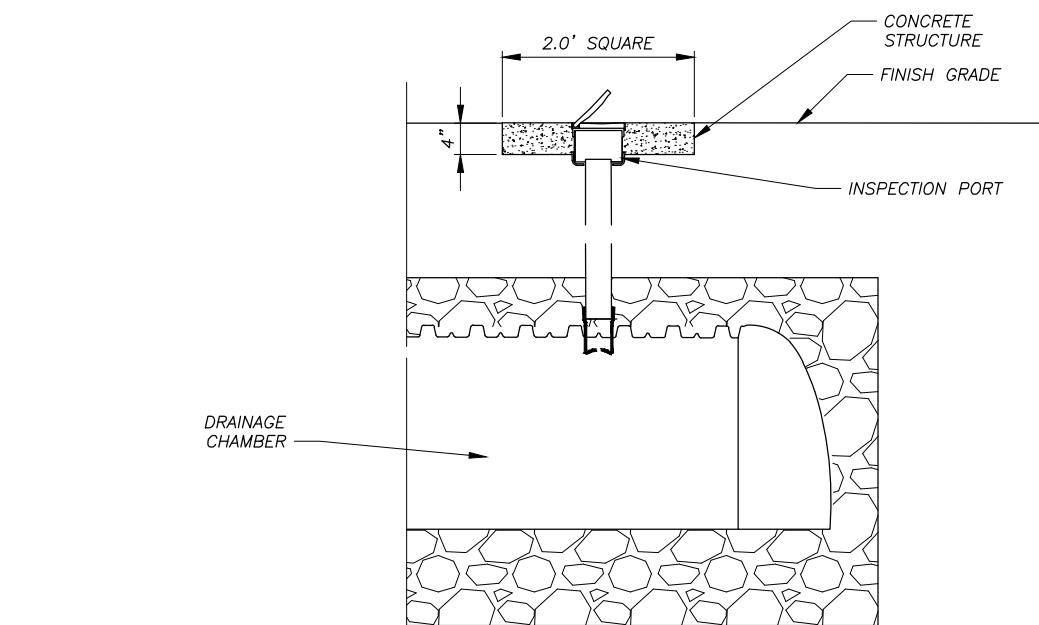
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 XREF: 18001_15_X_X_01, 18001_15_X_BD01, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD



1 BACKFILL SECTION
 C3.12 SCALE: NONE

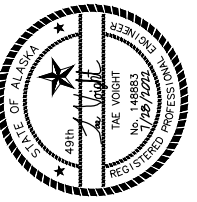


2 MANHOLE CONNECTION
 C3.12 SCALE: NONE



3 INSPECTION PORT
 C3.12 SCALE: NONE

REVISIONS	MARK	DATE	DESCRIPTION
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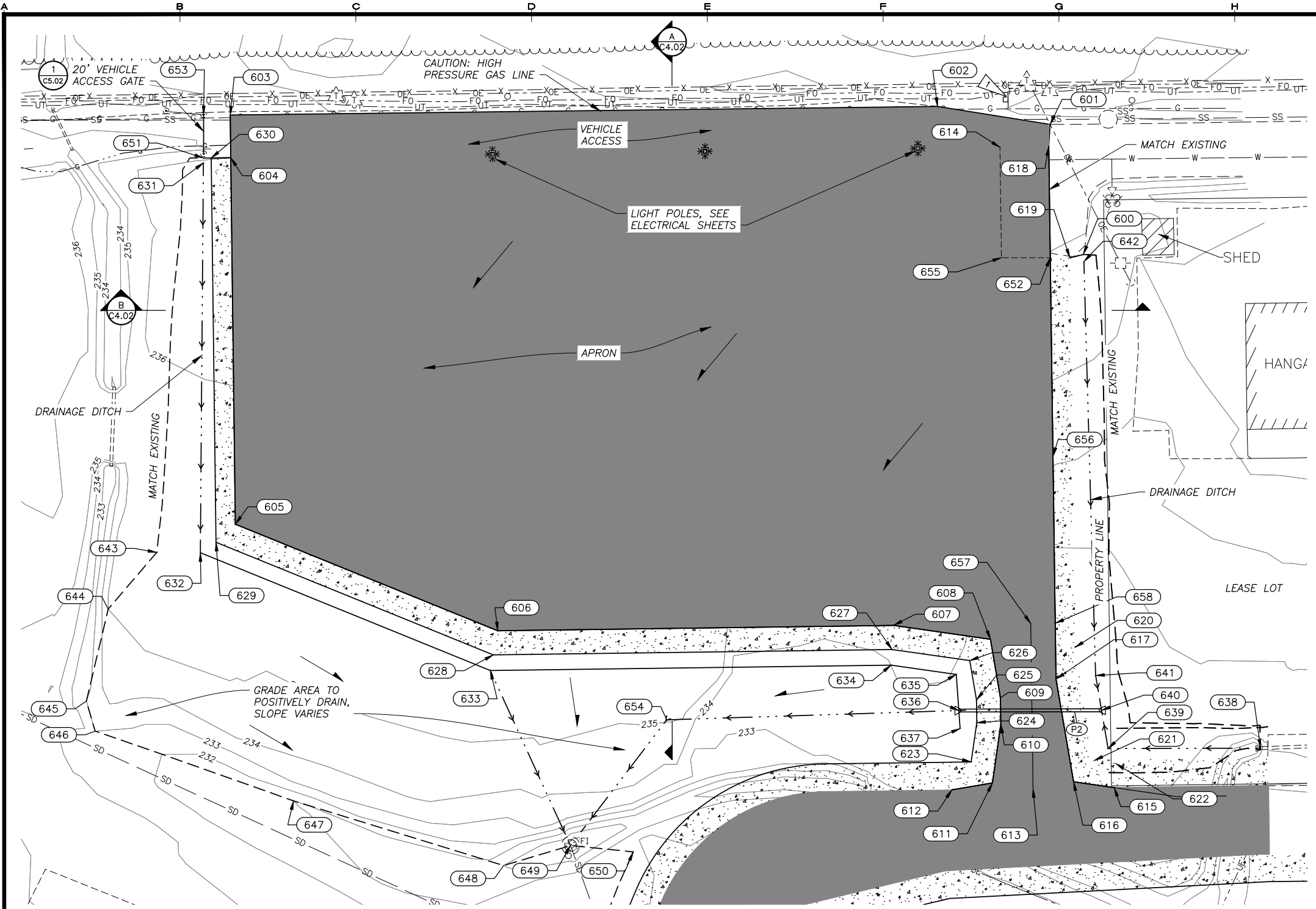


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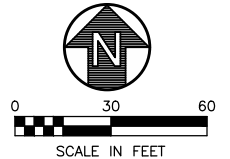
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SUBGRADE INFILTRATION SYSTEM DETAILS	
SHEET	
C3.12	
DRAWN BY: CDB	CHECKED BY: DWL
DATE: JULY 2022	SCALE: AS NOTED
JOB NUMBER: 18-001-15	

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 LAYOUT: C4.01A
 XREF: 18001_15_X_X01, 18001_15_X_BD01, 18001_15_X_IMAGE, 18001_15_X_SURVEYBASE, 18001_15_X_SURVEYBASE-ADD



1 GRADING PLAN - APRON E
 SCALE: 1" = 30'

NOTE:
 1 FLASHING STOP SIGN, SEE SHEET C5.01.



STORM PIPE SUMMARY								
PIPE	SIZE (IN)	PAY LENGTH (FT)	INLET		OUTLET		SLOPE %	REMARKS
			POINT	INVERT	POINT	INVERT		
P2	18	73	634	229.68	638	230.00	0.4%	INSTALL 2 END SECTIONS

APRON E GRADING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
653	60658.68	38311.42	-	GATE POST
654	60348.93	38548.52	229.18	DRAINAGE DITCH
655	60585.50	38719.88	236.58	APRON TRANSITION
656	60483.81	38746.26	235.07	APRON EDGE
657	60398.20	38734.87	233.75	CENTERLINE TAXILANE
658	60398.37	38747.42	233.69	APRON EDGE

APRON E GRADING POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
600	60587.12	38761.78	236.77	END DRAINAGE DITCH/ME
601	60653.75	38744.81	237.52	ACCESS ROAD CORNER
602	60662.92	38687.15	237.62	ACCESS ROAD CORNER
603	60658.53	38325.07	235.80	ACCESS ROAD CORNER
604	60636.67	38325.34	235.48	ACCESS ROAD CORNER
605	60449.09	38327.69	232.63	APRON CORNER
606	60394.50	38462.05	232.48	APRON CORNER
607	60397.25	38664.68	233.28	APRON CORNER
608	60390.16	38714.27	233.32	TAXIWAY LANE CORNER
609	60360.24	38719.38	232.94	TAXIWAY LANE CORNER
610	60346.68	38719.56	232.74	TAXIWAY LANE CORNER
611	60316.63	38715.26	232.22	TAXIWAY LANE CORNER
612	60313.08	38694.50	232.71	TAXIWAY LANE CORNER
613	60313.65	38736.07	232.59	CENTERLINE TAXIWAY
614	60642.01	38719.12	237.49	APRON TRANSITION
615	60314.21	38777.65	232.51	TAXIWAY LANE CORNER
616	60317.19	38756.79	232.22	TAXIWAY LANE CORNER
617	60369.75	38747.81	233.13	TAXIWAY LANE CORNER
618	60642.35	38744.12	237.68	TAXIWAY LANE CORNER
619	60585.50	38754.89	236.48	END SHOULDER
620	60386.01	38757.59	233.49	SHOULDER
621	60328.10	38767.41	231.60	SHOULDER
622	60326.52	38778.44	231.76	SHOULDER
623	60327.39	38704.38	231.63	SHOULDER
624	60347.47	38707.25	232.00	SHOULDER
625	60359.11	38707.09	232.06	SHOULDER
626	60379.25	38703.65	232.11	SHOULDER
627	60384.94	38663.88	232.66	SHOULDER
628	60382.17	38459.72	231.85	SHOULDER
629	60439.83	38317.81	231.95	SHOULDER
630	60636.55	38315.35	234.97	SHOULDER
631	60634.05	38311.33	233.97	DRAINAGE DITCH
632	60434.46	38309.77	229.95	DRAINAGE DITCH
633	60374.15	38458.21	229.68	TOE SLOPE
634	60376.93	38663.37	230.43	TOE SLOPE
635	60372.16	38696.75	230.43	TOE SLOPE
636	60353.69	38698.07	229.68	18" CMP CULVERT
637	60344.45	38698.74	230.50	SHOULDER
638	60334.43	38852.49	230.25	EXISTING CULVERT
639	60334.24	38774.47	230.05	DRAINAGE DITCH
640	60353.80	38771.13	230.00	18" CMP CULVERT
641	60371.61	38768.09	230.59	DRAINAGE DITCH
642	60583.50	38762.09	234.77	DRAINAGE DITCH
643	60434.64	38287.46	235.53	TOP OF SLOPE
644	60405.62	38262.59	235.00	TOP OF SLOPE
645	60358.50	38251.42	233.00	TOP OF SLOPE
646	60343.13	38256.01	233.00	TOP OF SLOPE
647	60307.44	38357.50	231.00	TOP OF SLOPE
648	60274.35	38465.02	230.00	TOP OF SLOPE
649	60284.59	38499.21	228.89	STORM DRAIN RIM
650	60281.33	38531.38	231.86	TOP OF SLOPE
651	60636.55	38311.33	235.80	TOP OF DRAINAGE DITCH
652	60585.50	38744.89	236.98	END SHOULDER

REVISIONS
 MARK | DATE | DESCRIPTION

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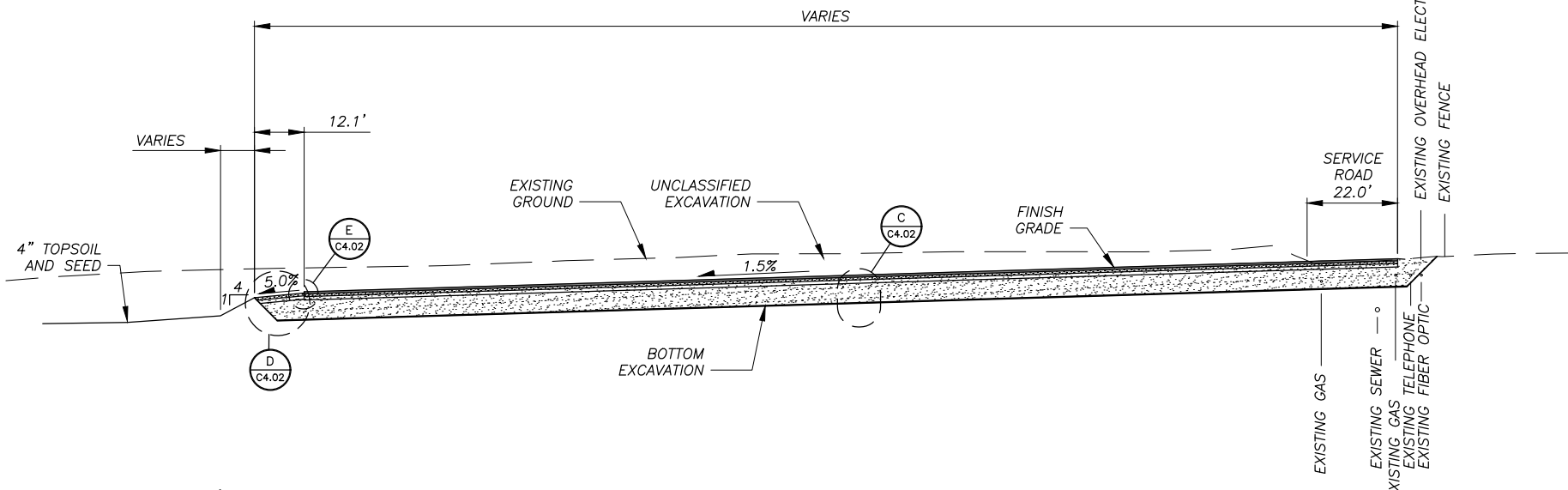
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**APRON E
 SITE AND
 GRADING PLAN**

SHEET
C4.01

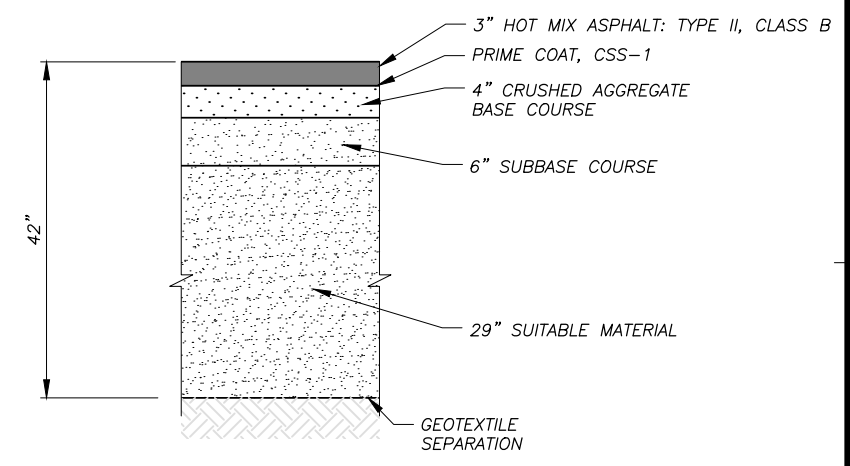
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 CHECKED BY: DWL
 DATE: JULY 2022
 SCALE: AS NOTED
 JOB NUMBER: 18-001-15

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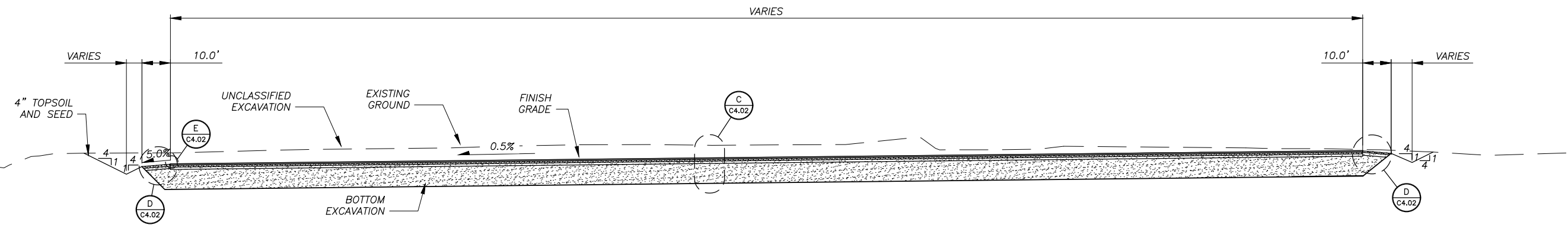
- NOTES:**
- SEE SHEET G1.02 FOR PROJECT NOTES, ABBREVIATIONS AND LEGEND.
 - RECYCLED ASPHALT PAVEMENT FROM MILLING SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS INCLUDING SHOULDERS. EXCESS RECYCLED ASPHALT PAVEMENT SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON SHEET G1.03 OR AS DIRECTED BY THE ENGINEER.
 - STOP EXCAVATION UNDER APRON AND SHOULDER IF EXCAVATION REACHES THE TOP OF NFS NATIVE GRAVEL, AS DIRECTED BY THE ENGINEER.



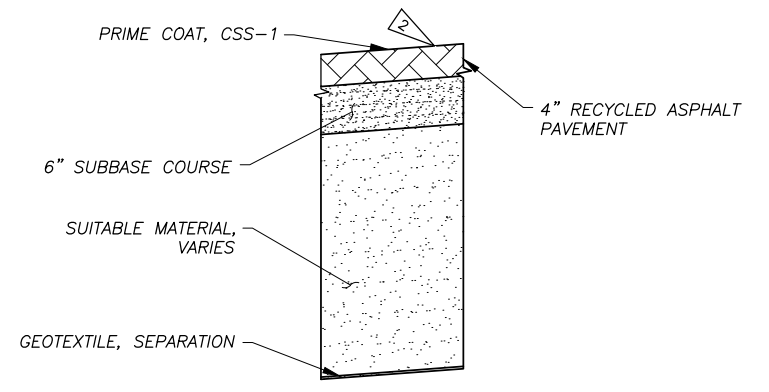
A SOUTH / NORTH - SECTION APRON E
 C4.02 SCALE: NONE



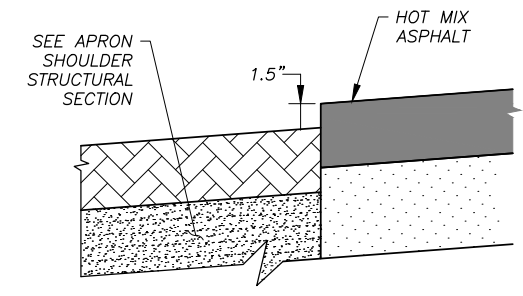
C STRUCTURAL SECTION
 C4.02 SCALE: NONE



B WEST / EAST - SECTION APRON E
 C4.02 SCALE: NONE

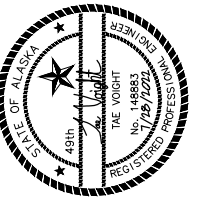


D APRON SHOULDER STRUCTURAL SECTION
 C4.02 SCALE: NONE



E PAVEMENT EDGE DETAIL
 C4.02 SCALE: NONE

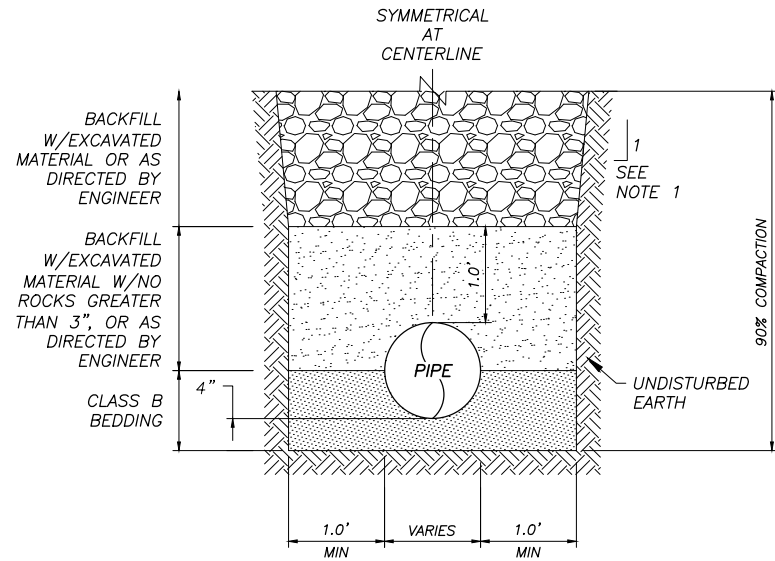
REVISIONS	MARK	DATE	DESCRIPTION
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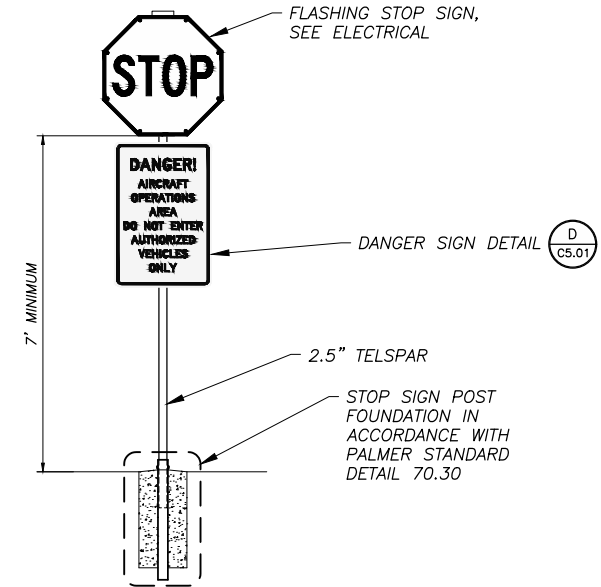
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APRON E SECTIONS	
SHEET	
C4.02	
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CDB	DWL
DATE	SCALE
JULY 2022	AS NOTED
JOB NUMBER	
18-001-15	



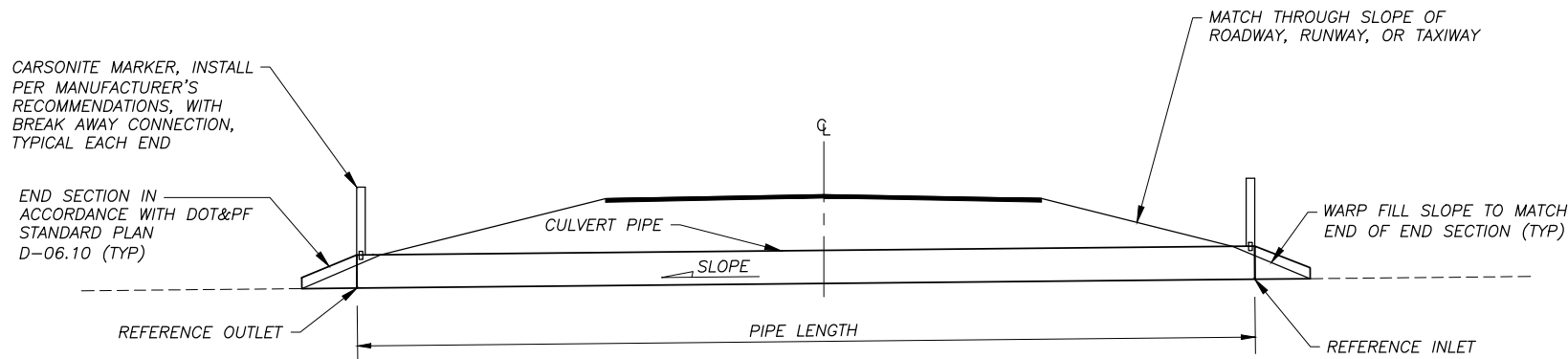
NOTES:

- TRENCH WALLS SHALL BE SLOPED OR SHORED AS REQUIRED FOR SAFETY.

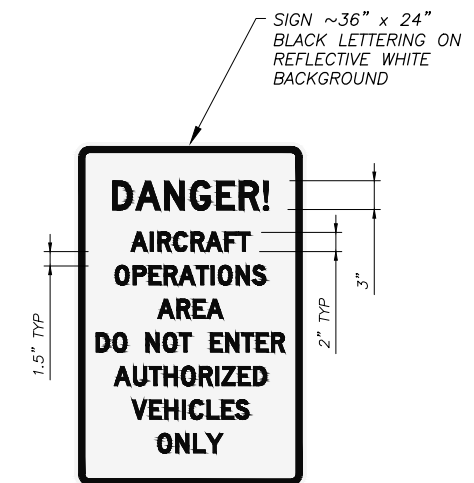
A TYPICAL TRENCH SECTION
 C5.01 SCALE: NONE



C FLASHING STOP SIGN
 C5.01 SCALE: NONE

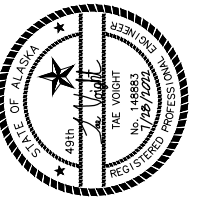


B TYPICAL CULVERT SECTION
 C5.01 SCALE: NONE



D DANGER SIGN
 C5.01 SCALE: NONE

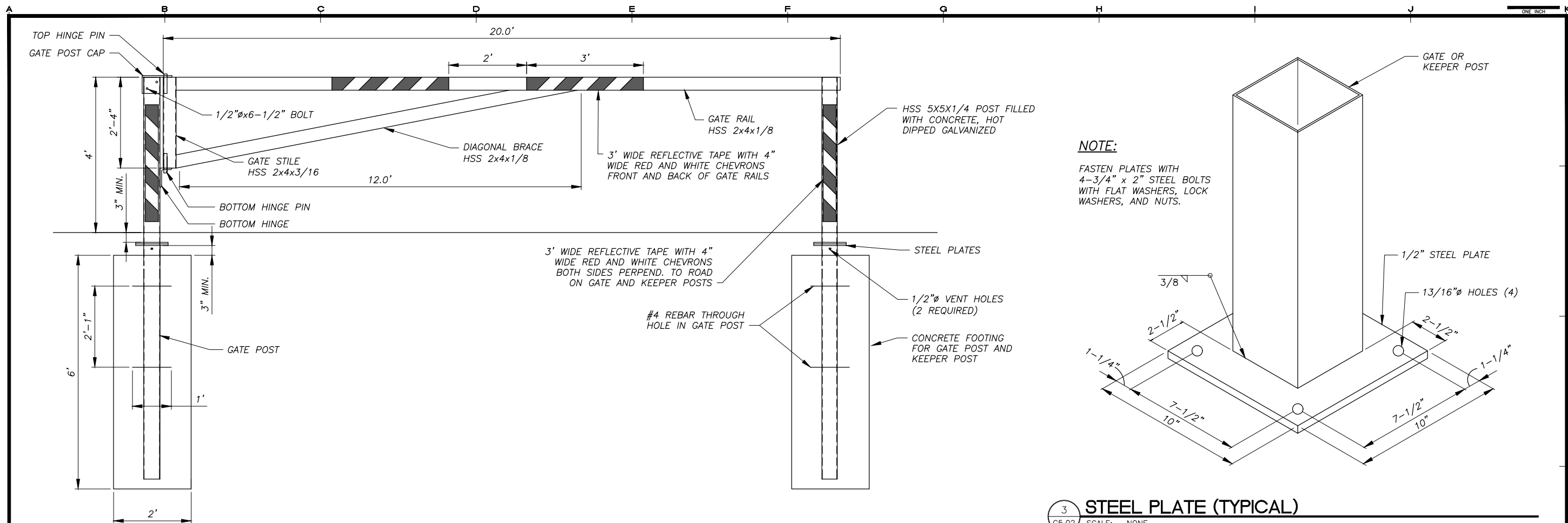
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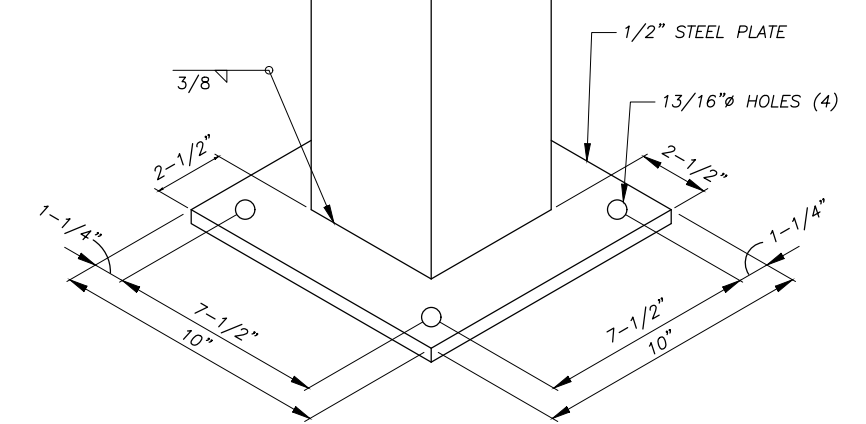
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE	
STORM DRAIN DETAILS AND SIGNS	
SHEET	
C5.01	
DRAWN BY	CHECKED BY
TCV	DWL
DATE	SCALE
JULY 2022	AS NOTED
JOB NUMBER	
18-001-15	

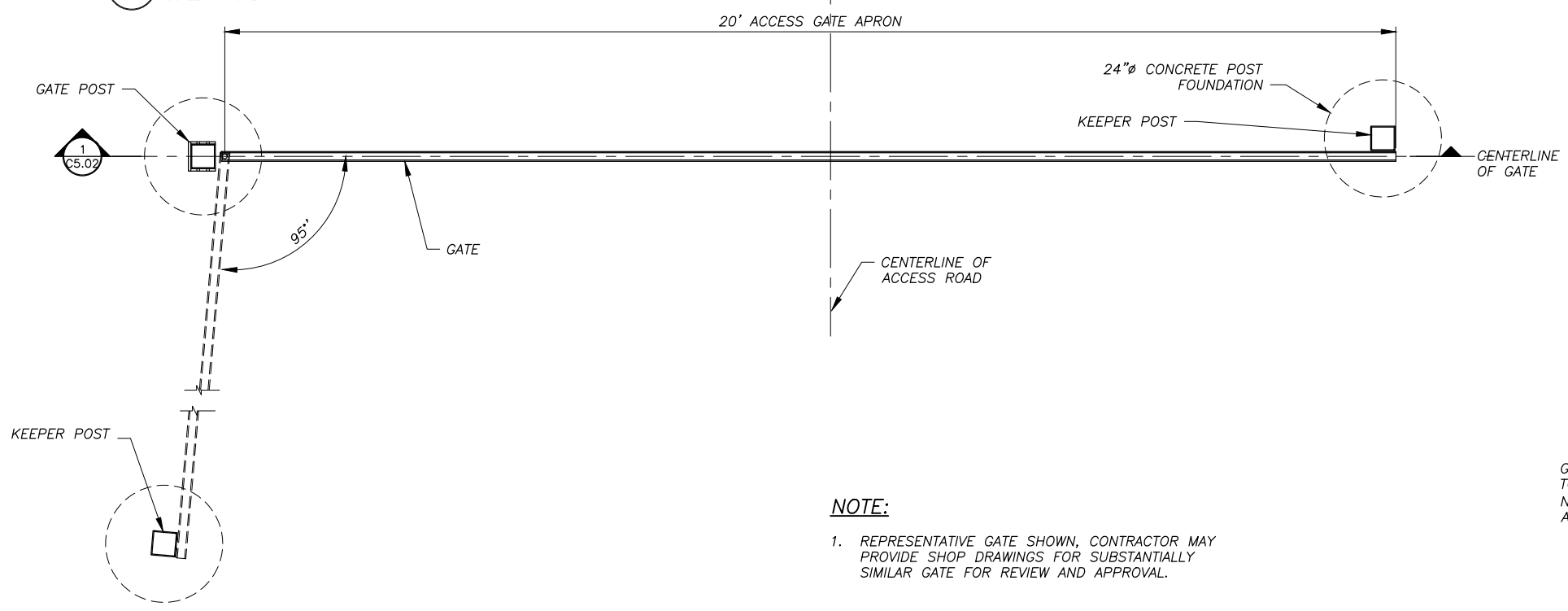


NOTE:
FASTEN PLATES WITH 4-3/4" x 2" STEEL BOLTS WITH FLAT WASHERS, LOCK WASHERS, AND NUTS.



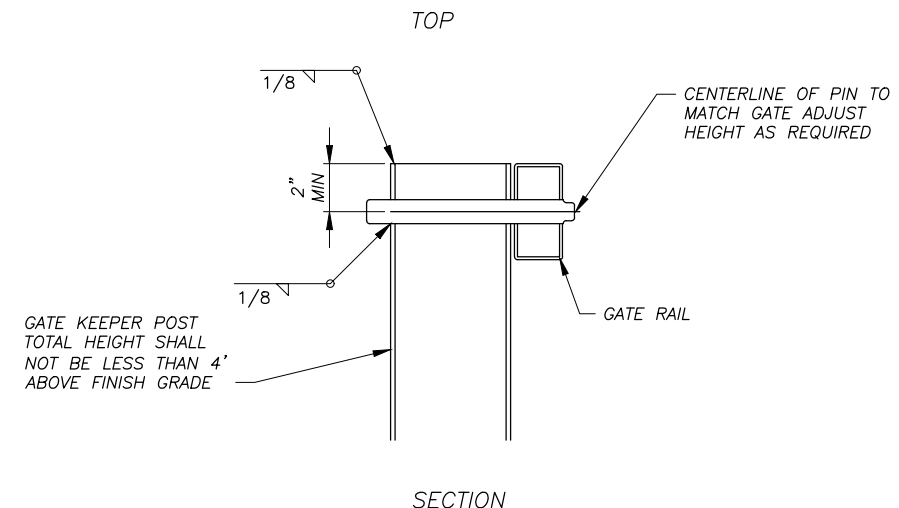
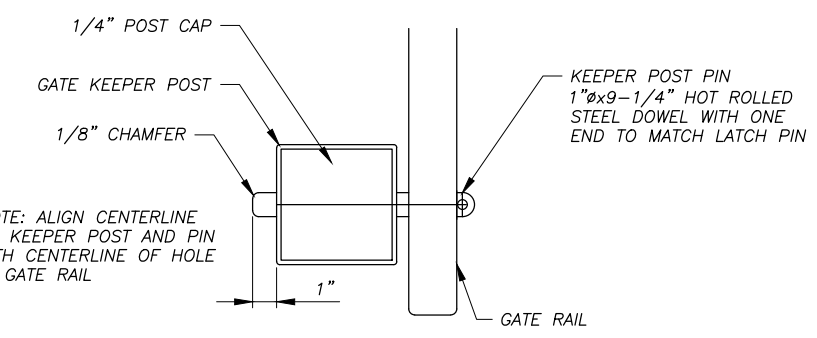
3 STEEL PLATE (TYPICAL)
SCALE: NONE

1 TYPICAL SINGLE POLE SWING GATE
SCALE: NONE



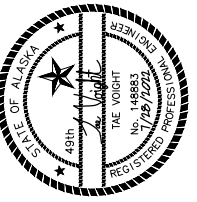
NOTE:
1. REPRESENTATIVE GATE SHOWN, CONTRACTOR MAY PROVIDE SHOP DRAWINGS FOR SUBSTANTIALLY SIMILAR GATE FOR REVIEW AND APPROVAL.

2 SITE PLAN - SINGLE POLE SWING GATE
SCALE: NONE



4 KEEPER POST
SCALE: NONE

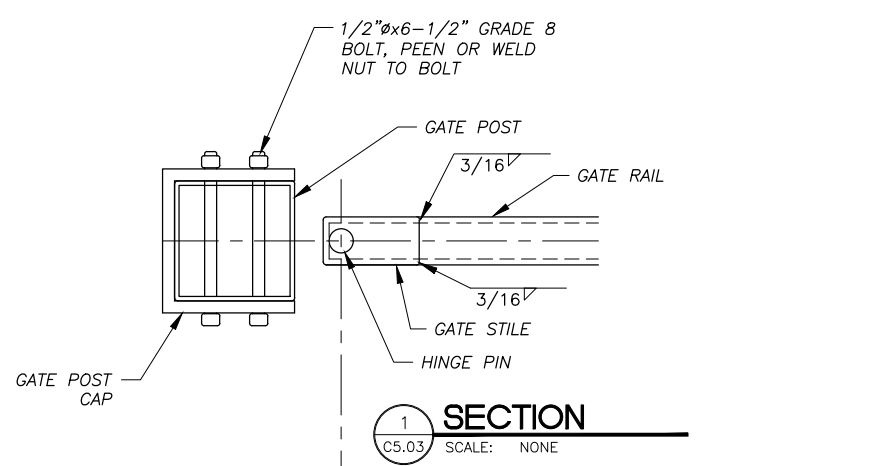
REVISIONS	MARK	DATE	DESCRIPTION
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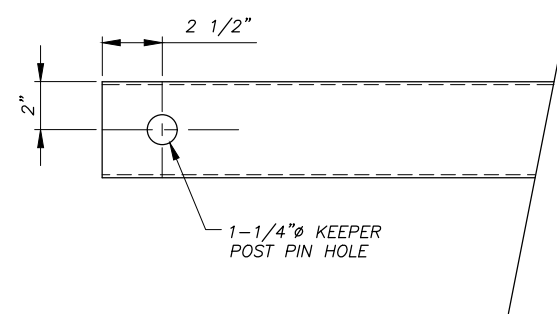
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PALMER, ALASKA

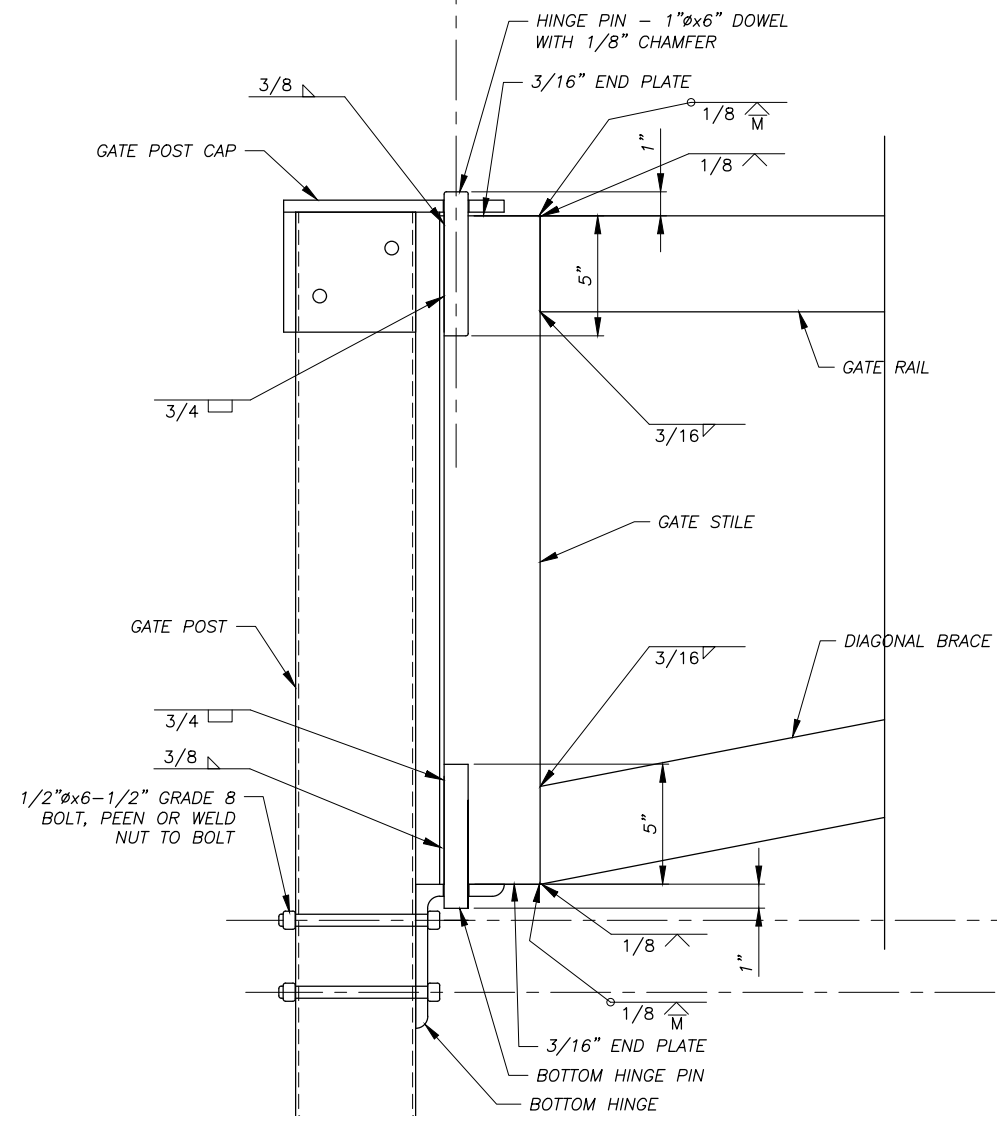
SHEET TITLE GATE DETAILS	
SHEET C5.02	
DRAWN BY TCV	CHECKED BY DWL
DATE JULY 2022	SCALE AS NOTED
JOB NUMBER 18-001-15	



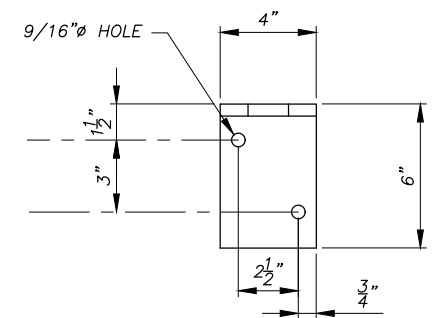
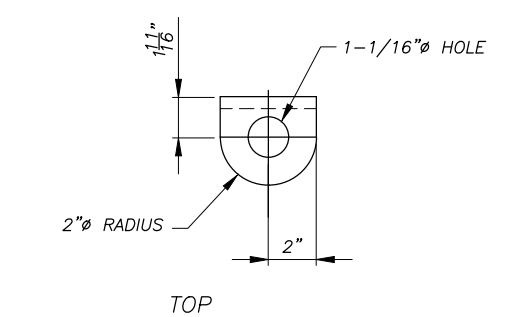
1 SECTION
C5.03 SCALE: NONE



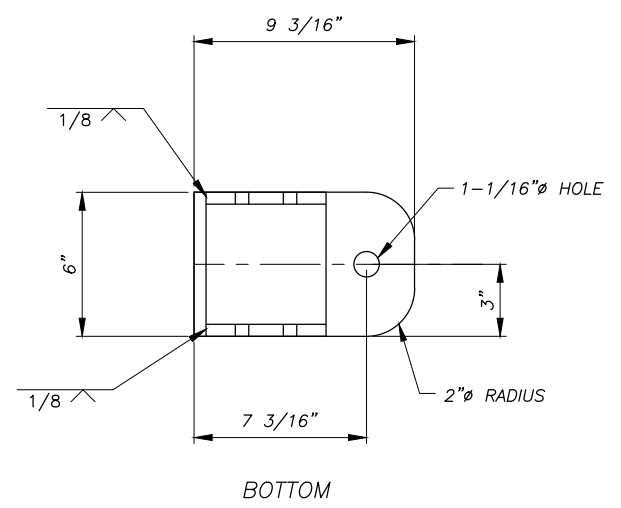
3 GATE RAIL END
C5.03 SCALE: NONE



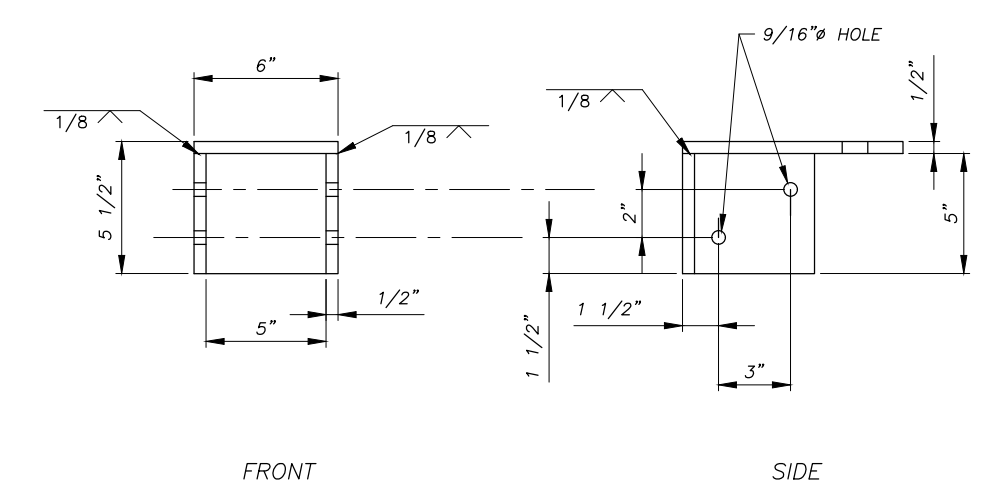
2 SECTION
C5.03 SCALE: NONE



4 BOTTOM HINGE
C5.03 SCALE: NONE



BOTTOM

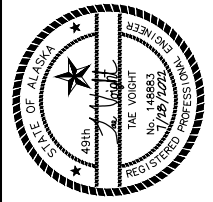


FRONT

SIDE

5 GATE POST CAP
C5.03 SCALE: NONE

REVISIONS	MARK	DATE	DESCRIPTION
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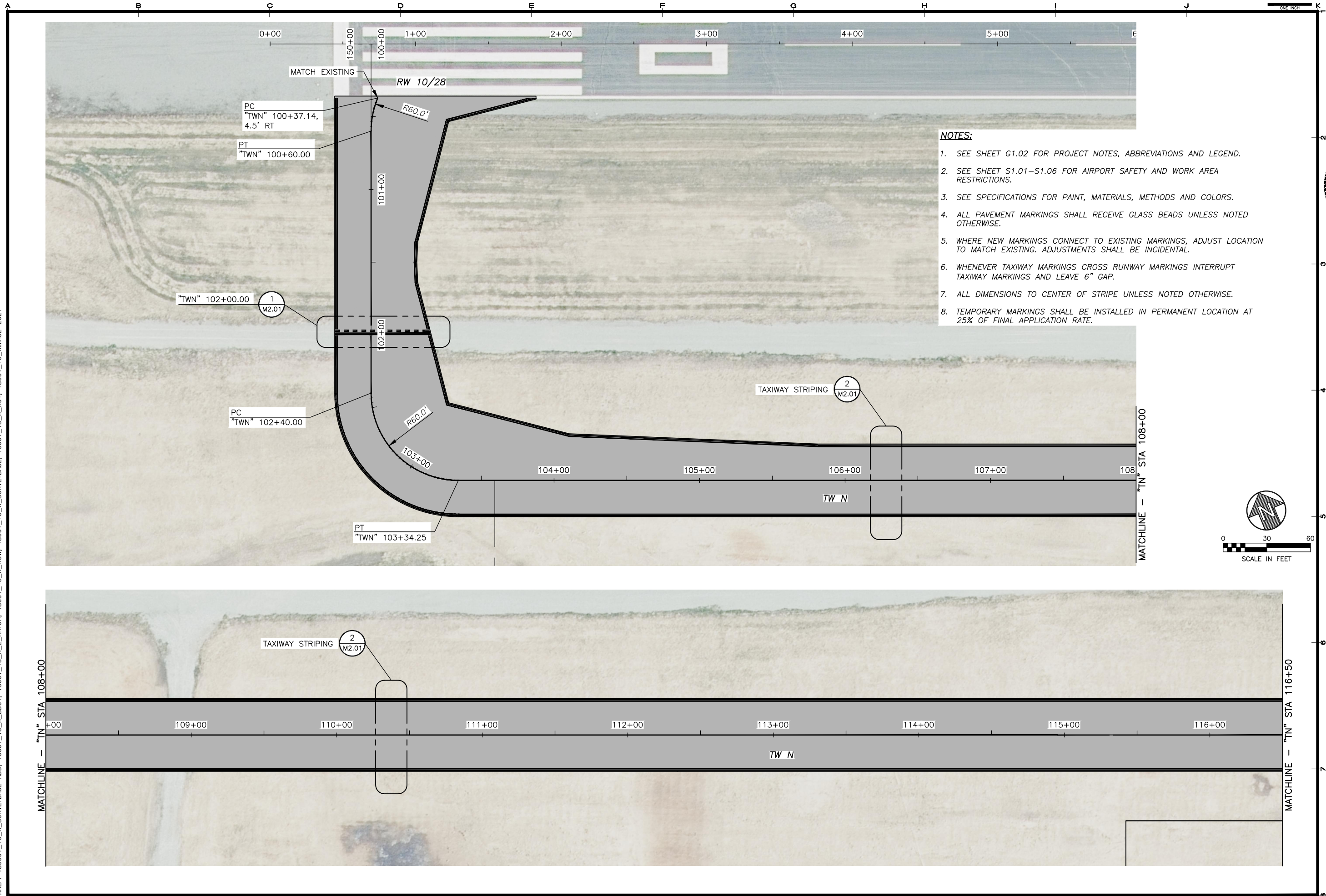
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PALMER, ALASKA

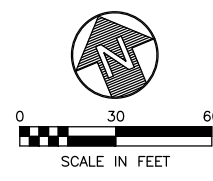
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
AND CONSTRUCT APRON E

SHEET TITLE: GATE DETAILS
SHEET: C5.03
DRAWN BY: TCV CHECKED BY: DWL
DATE: JULY 2022 SCALE: AS NOTED
JOB NUMBER: 18-001-15

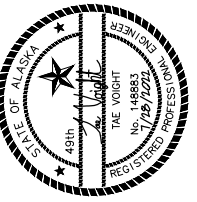
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 LAYOUT: M1.01
 XREF: 18001_15_X_SURVEYBASE-ADD, 18001_15_X_BD01, 18001_15_X_E-HATCH, 18001_15_X_X_ROW, 18001_15_X_SURVEYBASE, 18001_15_X_X01, 18001_15_XIMAGE-2021



- NOTES:**
1. SEE SHEET G1.02 FOR PROJECT NOTES, ABBREVIATIONS AND LEGEND.
 2. SEE SHEET S1.01-S1.06 FOR AIRPORT SAFETY AND WORK AREA RESTRICTIONS.
 3. SEE SPECIFICATIONS FOR PAINT, MATERIALS, METHODS AND COLORS.
 4. ALL PAVEMENT MARKINGS SHALL RECEIVE GLASS BEADS UNLESS NOTED OTHERWISE.
 5. WHERE NEW MARKINGS CONNECT TO EXISTING MARKINGS, ADJUST LOCATION TO MATCH EXISTING. ADJUSTMENTS SHALL BE INCIDENTAL.
 6. WHENEVER TAXIWAY MARKINGS CROSS RUNWAY MARKINGS INTERRUPT TAXIWAY MARKINGS AND LEAVE 6" GAP.
 7. ALL DIMENSIONS TO CENTER OF STRIPE UNLESS NOTED OTHERWISE.
 8. TEMPORARY MARKINGS SHALL BE INSTALLED IN PERMANENT LOCATION AT 25% OF FINAL APPLICATION RATE.



REVISIONS	MARK	DATE	DESCRIPTION
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 PALMER, ALASKA

SHEET TITLE
TAXIWAY N MARKING PLAN

SHEET
M1.01

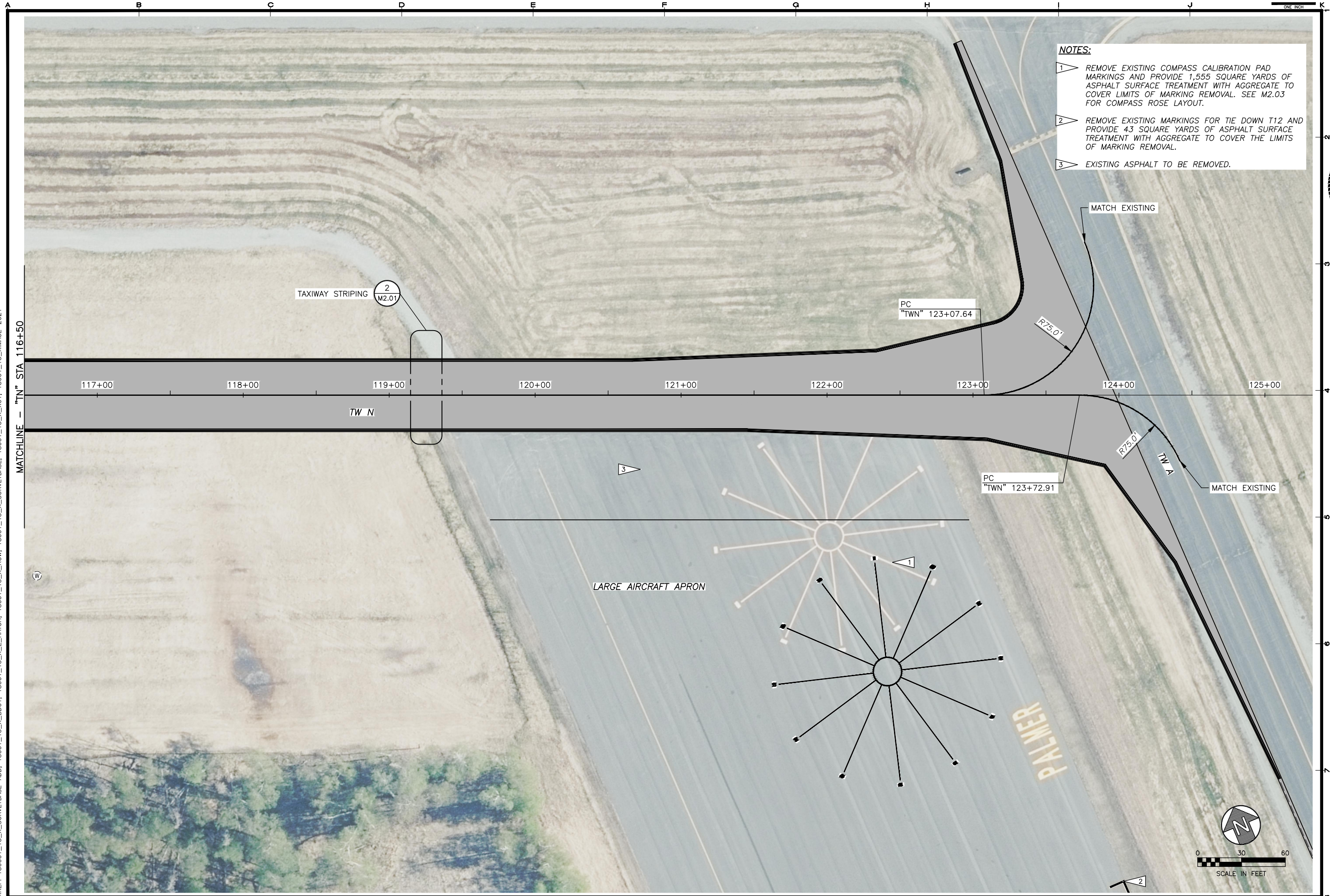
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DATE: **JULY 2022** SCALE: **AS NOTED**

JOB NUMBER: **18-001-15**

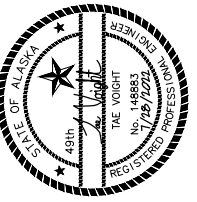
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MATCHLINE - "TN" STA 116+50



- NOTES:**
- 1 REMOVE EXISTING COMPASS CALIBRATION PAD MARKINGS AND PROVIDE 1,555 SQUARE YARDS OF ASPHALT SURFACE TREATMENT WITH AGGREGATE TO COVER LIMITS OF MARKING REMOVAL. SEE M2.03 FOR COMPASS ROSE LAYOUT.
 - 2 REMOVE EXISTING MARKINGS FOR TIE DOWN T12 AND PROVIDE 43 SQUARE YARDS OF ASPHALT SURFACE TREATMENT WITH AGGREGATE TO COVER THE LIMITS OF MARKING REMOVAL.
 - 3 EXISTING ASPHALT TO BE REMOVED.

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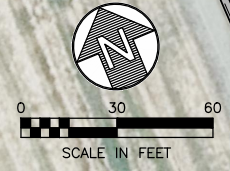
SHEET TITLE
TAXIWAY N MARKING PLAN

SHEET
M1.02

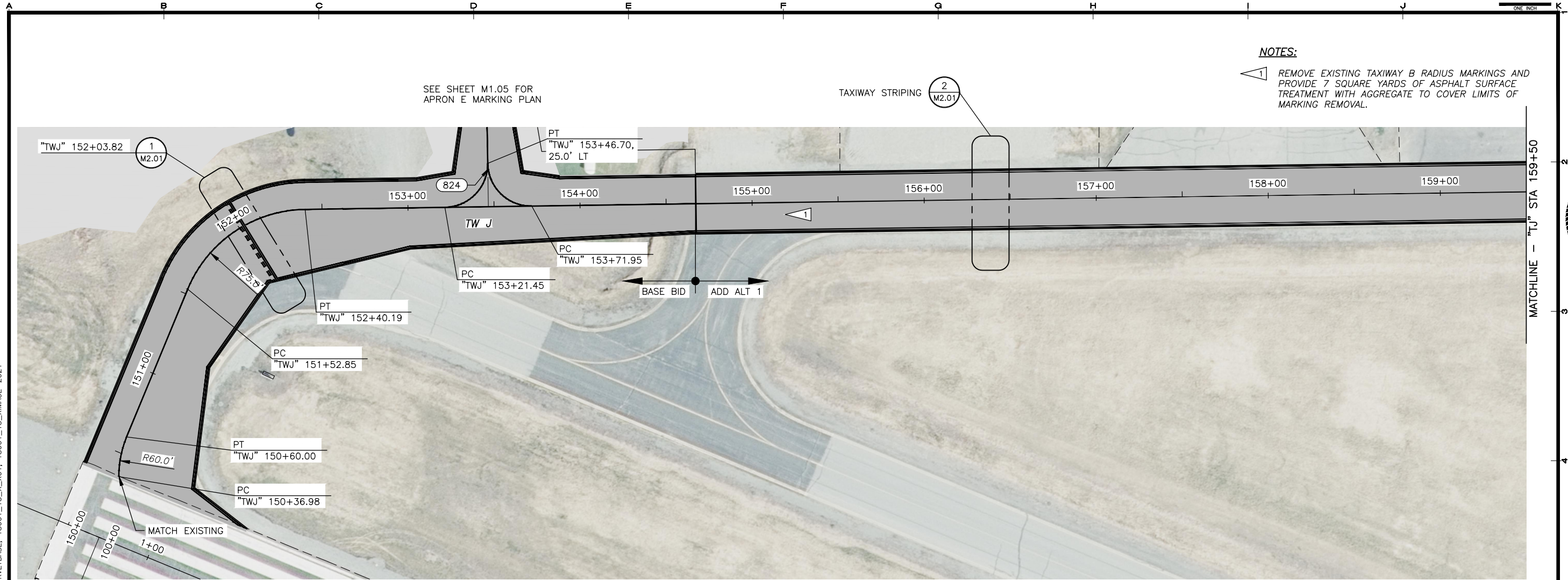
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DATE: **JULY 2022** SCALE: **AS NOTED**

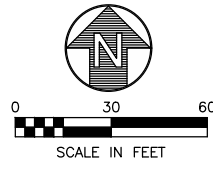
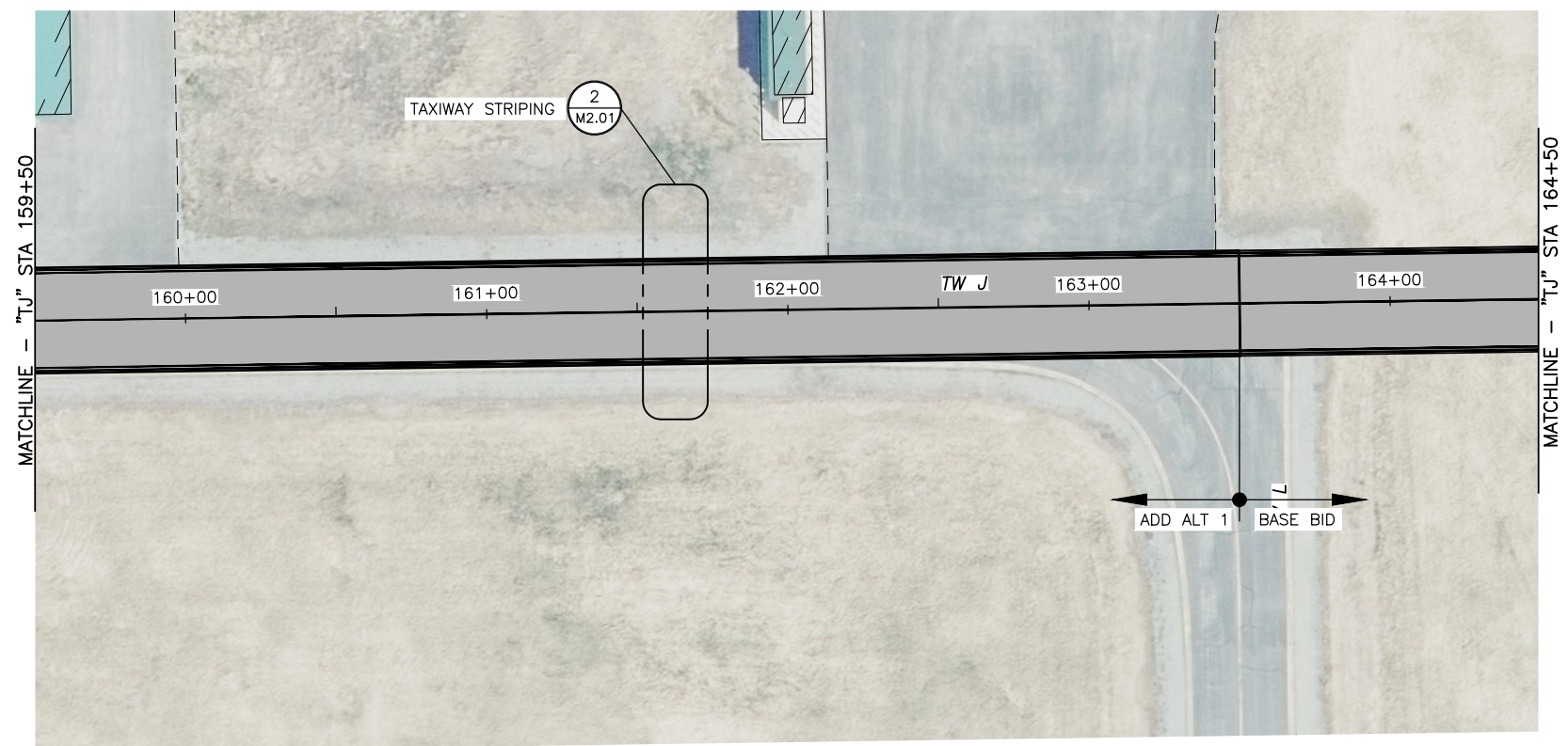
JOB NUMBER: **18-001-15**



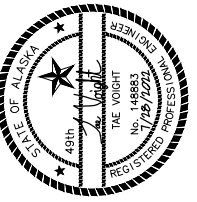
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NOTES:
 1 REMOVE EXISTING TAXIWAY B RADIUS MARKINGS AND PROVIDE 7 SQUARE YARDS OF ASPHALT SURFACE TREATMENT WITH AGGREGATE TO COVER LIMITS OF MARKING REMOVAL.



REVISIONS	MARK	DATE	DESCRIPTION
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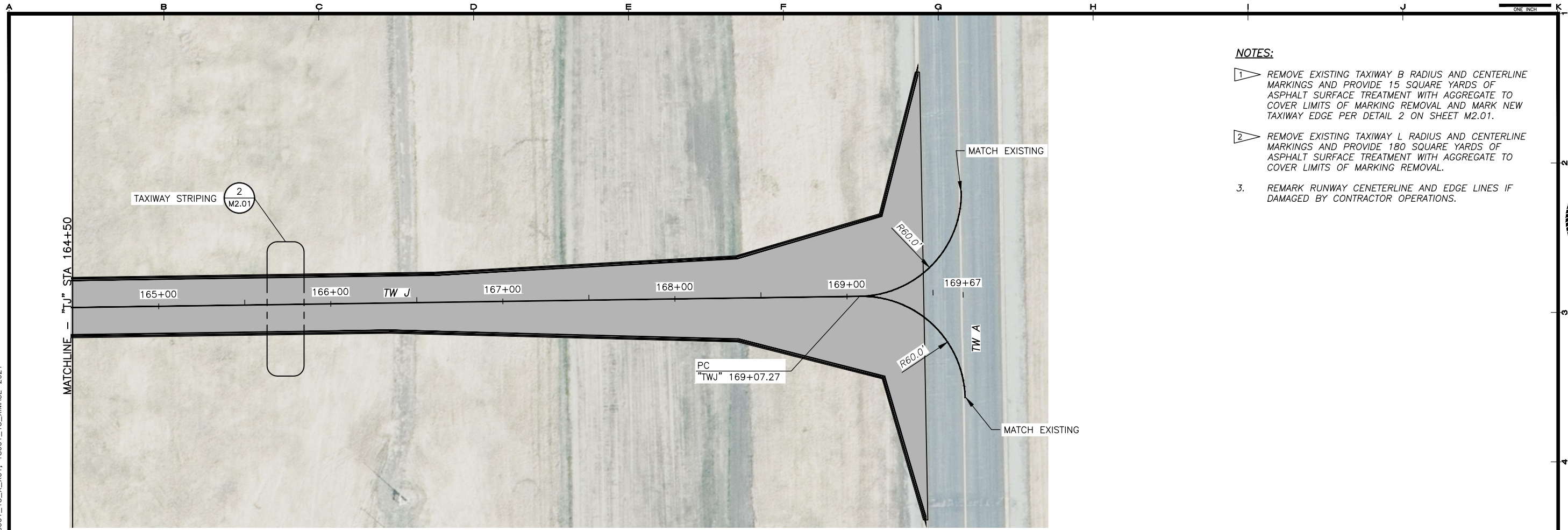
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT PALMER, ALASKA

SHEET TITLE
TAXIWAY J MARKING PLAN

SHEET
M1.03

DRAWN BY: **CDB** CHECKED BY: **DWL**
 DATE: **JULY 2022** SCALE: **AS NOTED**
 JOB NUMBER: **18-001-15**

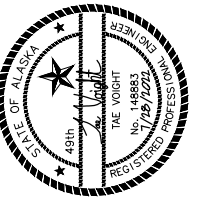
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NOTES:

- 1 REMOVE EXISTING TAXIWAY B RADIUS AND CENTERLINE MARKINGS AND PROVIDE 15 SQUARE YARDS OF ASPHALT SURFACE TREATMENT WITH AGGREGATE TO COVER LIMITS OF MARKING REMOVAL AND MARK NEW TAXIWAY EDGE PER DETAIL 2 ON SHEET M2.01.
- 2 REMOVE EXISTING TAXIWAY L RADIUS AND CENTERLINE MARKINGS AND PROVIDE 180 SQUARE YARDS OF ASPHALT SURFACE TREATMENT WITH AGGREGATE TO COVER LIMITS OF MARKING REMOVAL.
- 3 REMARK RUNWAY CENTERLINE AND EDGE LINES IF DAMAGED BY CONTRACTOR OPERATIONS.

REVISIONS	MARK	DATE	DESCRIPTION
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SHEET TITLE
**TAXIWAY J & A
 MARKING PLAN**

SHEET
M1.04

DRAWN BY: **CDB** CHECKED BY: **DWL**

DATE: **JULY 2022** SCALE: **AS NOTED**

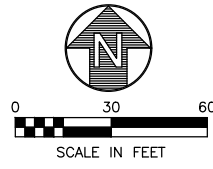
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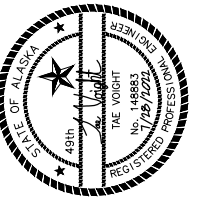


APRON MARKINGS TABLE

POINT #	NORTHING	EASTING	DESCRIPTION
800	60618.94	38677.43	TIE-DOWN CENTER
801	60480.96	38679.30	TIE-DOWN CENTER
802	60479.48	38570.31	TIE-DOWN CENTER
803	60617.47	38568.44	TIE-DOWN CENTER
804	60615.99	38459.45	TIE-DOWN CENTER
805	60478.00	38461.32	TIE-DOWN CENTER
806	60476.52	38352.33	TIE-DOWN CENTER
807	60614.51	38350.46	TIE-DOWN CENTER
808	60627.68	38399.78	CENTERLINE END
809	60465.94	38401.98	CENTERLINE PC
810	60420.42	38432.83	CENTERLINE PT
811	60407.34	38486.78	CENTERLINE PC
812	60432.68	38511.44	CENTERLINE PT
813	60629.16	38508.77	CENTERLINE END
814	60407.68	38511.78	CENTERLINE END
815	60408.02	38536.77	CENTERLINE PC
816	60408.82	38595.77	CENTERLINE PC
817	60434.15	38620.43	CENTERLINE PT
818	60630.64	38617.76	CENTERLINE END
819	60409.16	38620.77	CENTERLINE END
820	60409.50	38645.76	CENTERLINE PC
821	60410.36	38709.76	CENTERLINE PC
822	60385.70	38735.10	CENTERLINE PT
823	60567.19	38732.63	CENTERLINE END
824	60317.83	38736.02	CENTERLINE END
826	60407.19	38475.42	CENTERLINE PC
827	60410.99	38455.60	CENTERLINE PT
828	60642.69	38677.10	ANGLE POINT
829	60629.03	38720.54	ANGLE POINT
830	60567.79	38721.37	ANGLE POINT
831	60568.09	38743.87	END POINT
832	60653.25	38744.73	END POINT
833	60662.42	38687.11	ANGLE POINT



REVISIONS	MARK	DATE	DESCRIPTION
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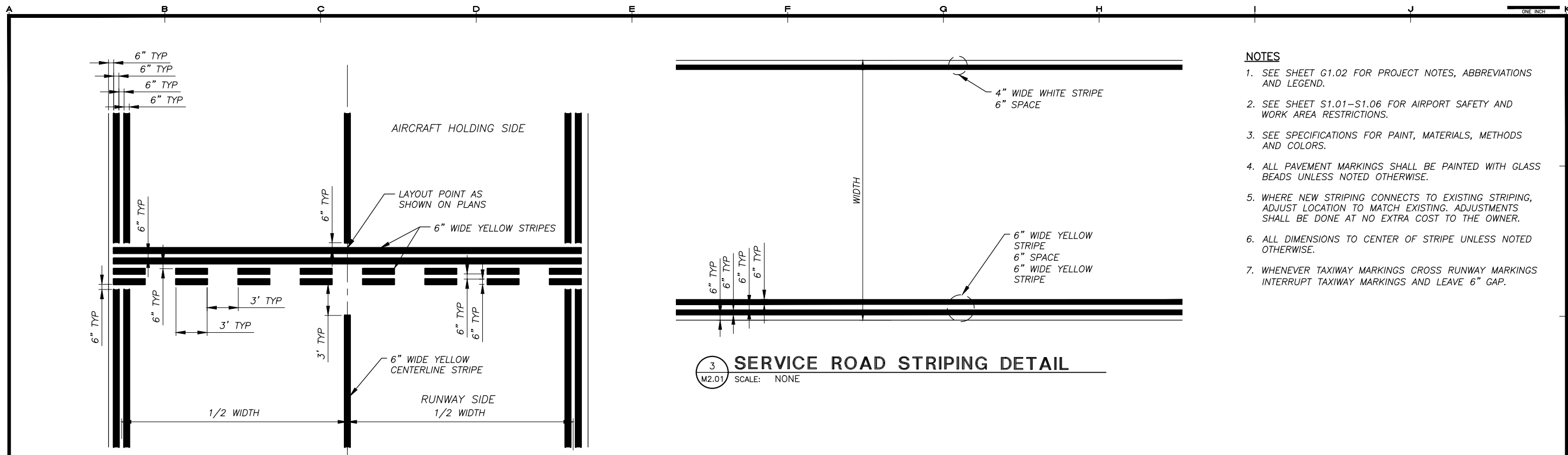
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 AND CONSTRUCT APRON E

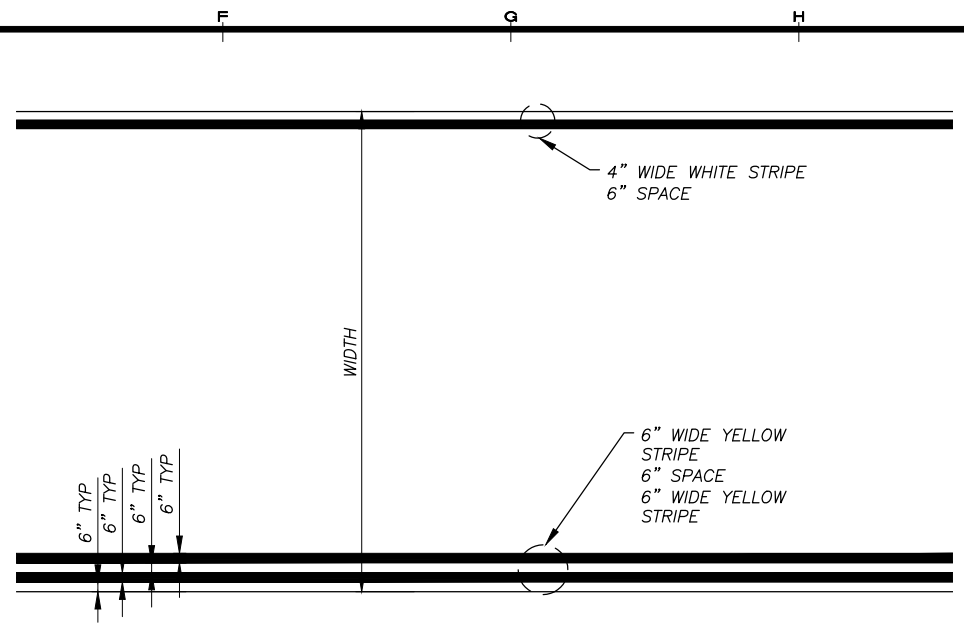
SHEET TITLE
APRON E MARKING PLAN

SHEET
M1.05

DRAWN BY: CDB CHECKED BY: DWL
 DATE: JULY 2022 SCALE: AS NOTED
 JOB NUMBER: 18-001-15



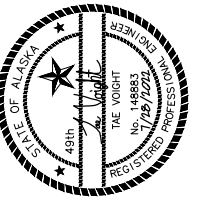
1 HOLDING POSITION STRIPING DETAIL
 M2.01 SCALE: NONE



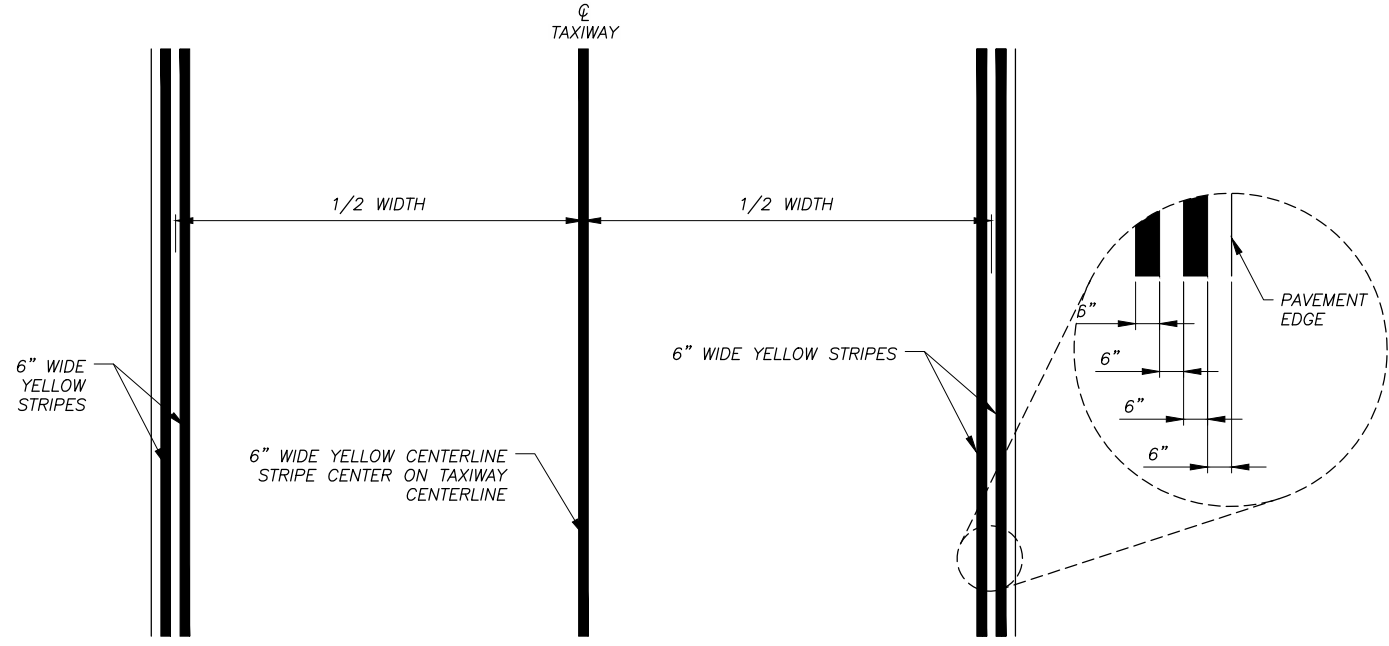
3 SERVICE ROAD STRIPING DETAIL
 M2.01 SCALE: NONE

- NOTES**
- SEE SHEET G1.02 FOR PROJECT NOTES, ABBREVIATIONS AND LEGEND.
 - SEE SHEET S1.01-S1.06 FOR AIRPORT SAFETY AND WORK AREA RESTRICTIONS.
 - SEE SPECIFICATIONS FOR PAINT, MATERIALS, METHODS AND COLORS.
 - ALL PAVEMENT MARKINGS SHALL BE PAINTED WITH GLASS BEADS UNLESS NOTED OTHERWISE.
 - WHERE NEW STRIPING CONNECTS TO EXISTING STRIPING, ADJUST LOCATION TO MATCH EXISTING. ADJUSTMENTS SHALL BE DONE AT NO EXTRA COST TO THE OWNER.
 - ALL DIMENSIONS TO CENTER OF STRIPE UNLESS NOTED OTHERWISE.
 - WHENEVER TAXIWAY MARKINGS CROSS RUNWAY MARKINGS INTERRUPT TAXIWAY MARKINGS AND LEAVE 6" GAP.

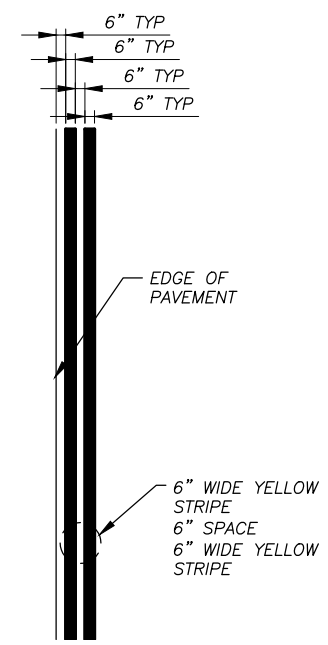
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2 TAXIWAY STRIPING DETAIL
 M2.01 SCALE: NONE



4 APRON EDGE MARKING DETAIL
 M2.01 SCALE: NONE

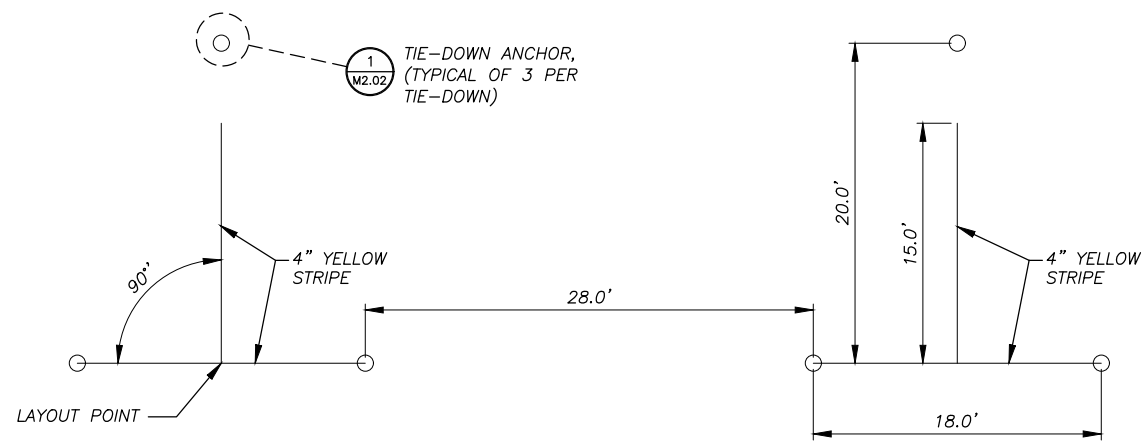
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E AND CONSTRUCT APRON F
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE
 TAXIWAY DESIGNATION AND STRIPING DETAILS

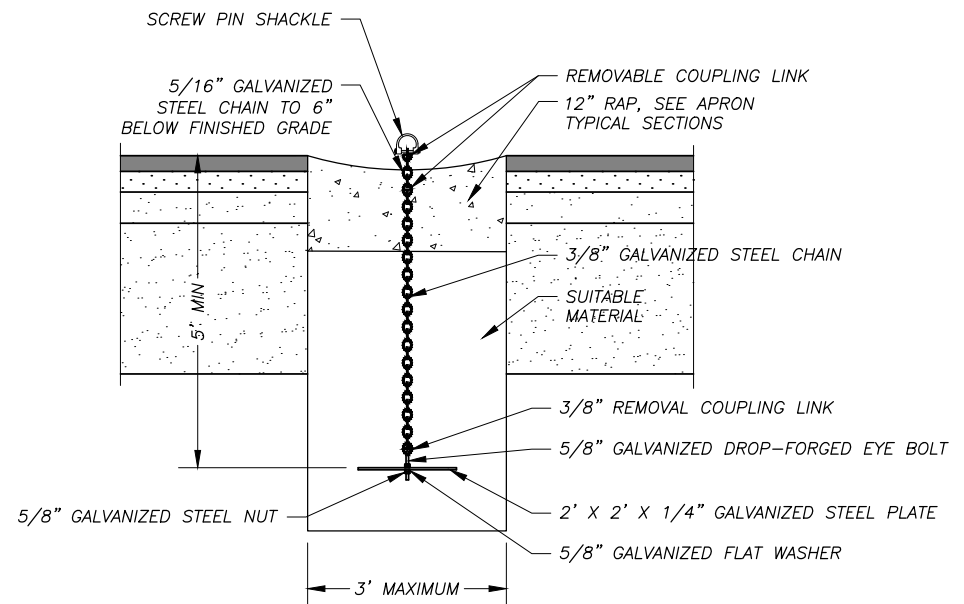
SHEET
M2.01

DRAWN BY: CDB	CHECKED BY: DWL
DATE: JULY 2022	SCALE: AS NOTED
JOB NUMBER: 18-001-15	

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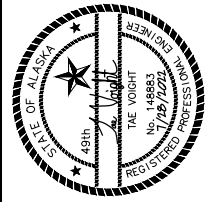


A **APRON TIE-DOWN DETAIL**
 M2.02 SCALE: NONE



1 **TYPICAL TIE-DOWN ANCHOR**
 M2.02 SCALE: NONE
 *SEE M2.01 FOR APRON TIE-DOWN LAYOUT

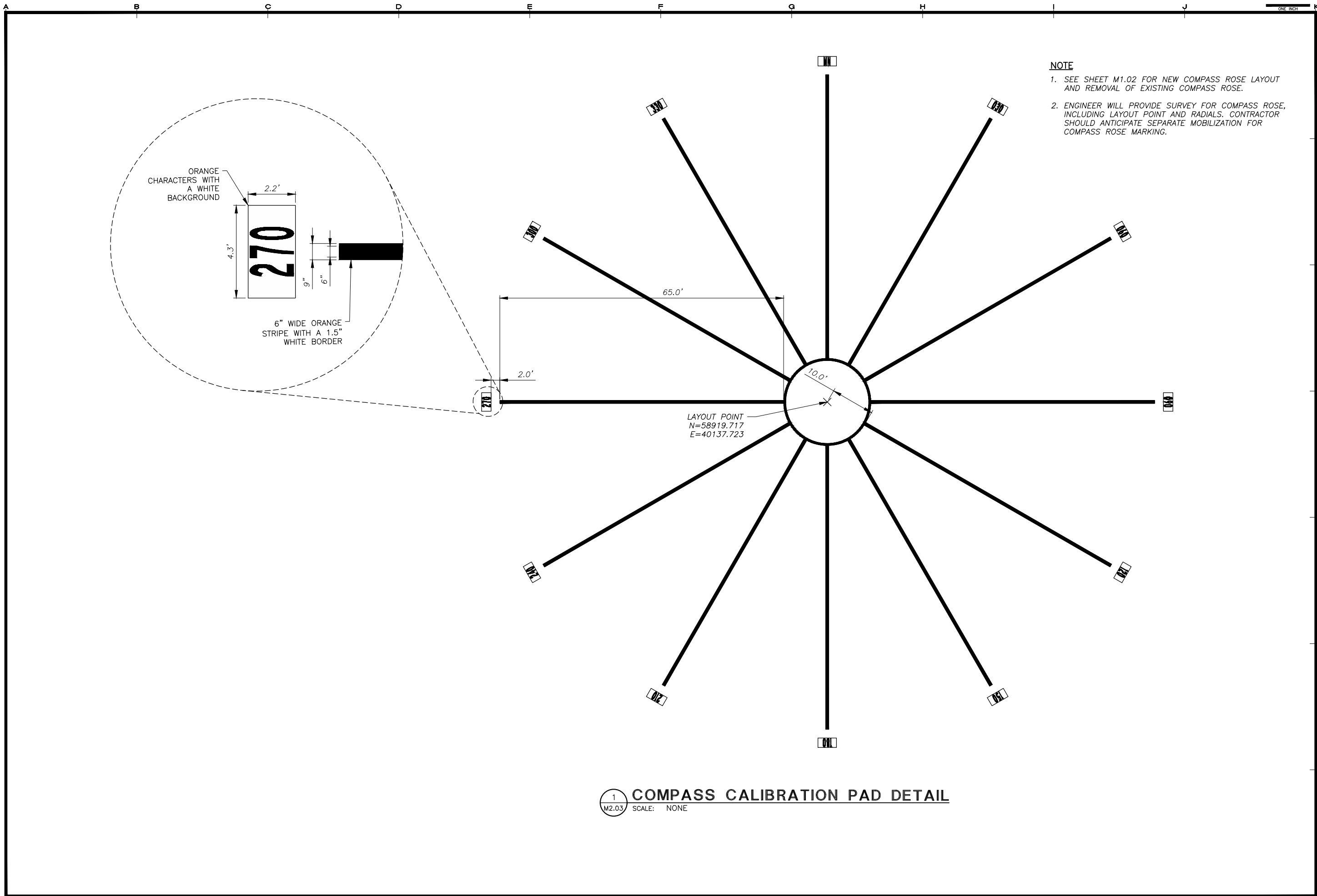
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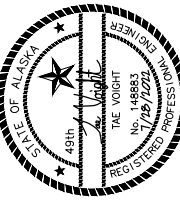
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AIRPLANE TIE-DOWN STRIPING LAYOUT AND DETAILS	
SHEET	
M2.02	
DRAWN BY:	CHECKED BY:
CDB	DWL
DATE:	SCALE:
JULY 2022	AS NOTED
JOB NUMBER:	
18-001-15	



NOTE

1. SEE SHEET M1.02 FOR NEW COMPASS ROSE LAYOUT AND REMOVAL OF EXISTING COMPASS ROSE.
2. ENGINEER WILL PROVIDE SURVEY FOR COMPASS ROSE, INCLUDING LAYOUT POINT AND RADIALS. CONTRACTOR SHOULD ANTICIPATE SEPARATE MOBILIZATION FOR COMPASS ROSE MARKING.

REVISIONS	MARK	DATE	DESCRIPTION
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HDL ENGINEERING Consultants LLC
 civil - geotechnical - surveying - environmental - material testing
 ANCHORAGE
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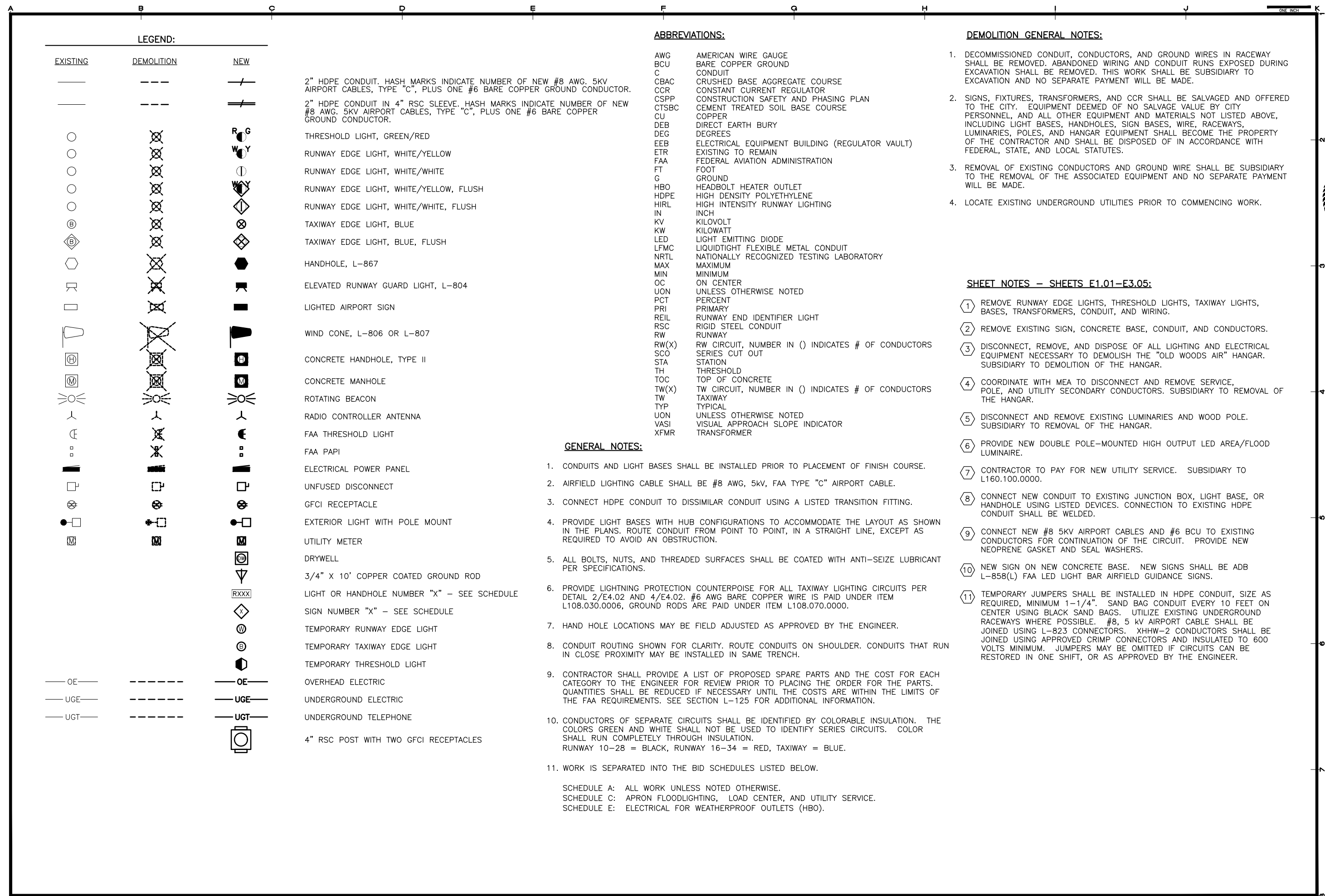
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE
COMPASS CALIBRATION STRIPING DETAILS

SHEET
M2.03

DRAWN BY: CDB	CHECKED BY: DWL
DATE: JULY 2022	SCALE: AS NOTED
JOB NUMBER: 18-001-15	

1 **COMPASS CALIBRATION PAD DETAIL**
 M2.03 SCALE: NONE



LEGEND:

EXISTING	DEMOLITION	NEW	
			2" HDPE CONDUIT. HASH MARKS INDICATE NUMBER OF NEW #8 AWG. 5KV AIRPORT CABLES, TYPE "C", PLUS ONE #6 BARE COPPER GROUND CONDUCTOR.
			2" HDPE CONDUIT IN 4" RSC SLEEVE. HASH MARKS INDICATE NUMBER OF NEW #8 AWG. 5KV AIRPORT CABLES, TYPE "C", PLUS ONE #6 BARE COPPER GROUND CONDUCTOR.
			THRESHOLD LIGHT, GREEN/RED
			RUNWAY EDGE LIGHT, WHITE/YELLOW
			RUNWAY EDGE LIGHT, WHITE/WHITE
			RUNWAY EDGE LIGHT, WHITE/YELLOW, FLUSH
			RUNWAY EDGE LIGHT, WHITE/WHITE, FLUSH
			TAXIWAY EDGE LIGHT, BLUE
			TAXIWAY EDGE LIGHT, BLUE, FLUSH
			HANDHOLE, L-867
			ELEVATED RUNWAY GUARD LIGHT, L-804
			LIGHTED AIRPORT SIGN
			WIND CONE, L-806 OR L-807
			CONCRETE HANDHOLE, TYPE II
			CONCRETE MANHOLE
			ROTATING BEACON
			RADIO CONTROLLER ANTENNA
			FAA THRESHOLD LIGHT
			FAA PAPI
			ELECTRICAL POWER PANEL
			UNFUSED DISCONNECT
			GFCI RECEPTACLE
			EXTERIOR LIGHT WITH POLE MOUNT
			UTILITY METER
			DRYWELL
			3/4" X 10' COPPER COATED GROUND ROD
			LIGHT OR HANDHOLE NUMBER "X" - SEE SCHEDULE
			SIGN NUMBER "X" - SEE SCHEDULE
			TEMPORARY RUNWAY EDGE LIGHT
			TEMPORARY TAXIWAY EDGE LIGHT
			TEMPORARY THRESHOLD LIGHT
			OVERHEAD ELECTRIC
			UNDERGROUND ELECTRIC
			UNDERGROUND TELEPHONE
			4" RSC POST WITH TWO GFCI RECEPTACLES

ABBREVIATIONS:

AWG	AMERICAN WIRE GAUGE
BCU	BARE COPPER GROUND CONDUIT
C	CONDUIT
CBAC	CRUSHED BASE AGGREGATE COURSE
CCR	CONSTANT CURRENT REGULATOR
CSPP	CONSTRUCTION SAFETY AND PHASING PLAN
CTSBC	CEMENT TREATED SOIL BASE COURSE
CU	COPPER
DEB	DIRECT EARTH BURY
DEG	DEGREES
EEB	ELECTRICAL EQUIPMENT BUILDING (REGULATOR VAULT)
ETR	EXISTING TO REMAIN
FAA	FEDERAL AVIATION ADMINISTRATION
FT	FOOT
G	GROUND
HBO	HEADBOLT HEATER OUTLET
HDPE	HIGH DENSITY POLYETHYLENE
HIRL	HIGH INTENSITY RUNWAY LIGHTING
IN	INCH
KV	KILOVOLT
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
UON	UNLESS OTHERWISE NOTED
PCT	PERCENT
PRI	PRIMARY
REIL	RUNWAY END IDENTIFIER LIGHT
RSC	RIGID STEEL CONDUIT
RW	RUNWAY
RW(X)	RW CIRCUIT, NUMBER IN () INDICATES # OF CONDUCTORS
SCO	SERIES CUT OUT
STA	STATION
TH	THRESHOLD
TOC	TOP OF CONCRETE
TW(X)	TW CIRCUIT, NUMBER IN () INDICATES # OF CONDUCTORS
TW	TAXIWAY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VASI	VISUAL APPROACH SLOPE INDICATOR
XFMR	TRANSFORMER

DEMOLITION GENERAL NOTES:

1. DECOMMISSIONED CONDUIT, CONDUCTORS, AND GROUND WIRES IN RACEWAY SHALL BE REMOVED. ABANDONED WIRING AND CONDUIT RUNS EXPOSED DURING EXCAVATION SHALL BE REMOVED. THIS WORK SHALL BE SUBSIDIARY TO EXCAVATION AND NO SEPARATE PAYMENT WILL BE MADE.
2. SIGNS, FIXTURES, TRANSFORMERS, AND CCR SHALL BE SALVAGED AND OFFERED TO THE CITY. EQUIPMENT DEEMED OF NO SALVAGE VALUE BY CITY PERSONNEL, AND ALL OTHER EQUIPMENT AND MATERIALS NOT LISTED ABOVE, INCLUDING LIGHT BASES, HANDHOLES, SIGN BASES, WIRE, RACEWAYS, LUMINARIES, POLES, AND HANGAR EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL STATUTES.
3. REMOVAL OF EXISTING CONDUCTORS AND GROUND WIRE SHALL BE SUBSIDIARY TO THE REMOVAL OF THE ASSOCIATED EQUIPMENT AND NO SEPARATE PAYMENT WILL BE MADE.
4. LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK.

SHEET NOTES - SHEETS E1.01-E3.05:

- 1 REMOVE RUNWAY EDGE LIGHTS, THRESHOLD LIGHTS, TAXIWAY LIGHTS, BASES, TRANSFORMERS, CONDUIT, AND WIRING.
- 2 REMOVE EXISTING SIGN, CONCRETE BASE, CONDUIT, AND CONDUCTORS.
- 3 DISCONNECT, REMOVE, AND DISPOSE OF ALL LIGHTING AND ELECTRICAL EQUIPMENT NECESSARY TO DEMOLISH THE "OLD WOODS AIR" HANGAR. SUBSIDIARY TO DEMOLITION OF THE HANGAR.
- 4 COORDINATE WITH MEA TO DISCONNECT AND REMOVE SERVICE, POLE, AND UTILITY SECONDARY CONDUCTORS. SUBSIDIARY TO REMOVAL OF THE HANGAR.
- 5 DISCONNECT AND REMOVE EXISTING LUMINARIES AND WOOD POLE. SUBSIDIARY TO REMOVAL OF THE HANGAR.
- 6 PROVIDE NEW DOUBLE POLE-MOUNTED HIGH OUTPUT LED AREA/FLOOD LUMINAIRE.
- 7 CONTRACTOR TO PAY FOR NEW UTILITY SERVICE. SUBSIDIARY TO L160.100.0000.
- 8 CONNECT NEW CONDUIT TO EXISTING JUNCTION BOX, LIGHT BASE, OR HANDHOLE USING LISTED DEVICES. CONNECTION TO EXISTING HDPE CONDUIT SHALL BE WELDED.
- 9 CONNECT NEW #8 5KV AIRPORT CABLES AND #6 BCU TO EXISTING CONDUCTORS FOR CONTINUATION OF THE CIRCUIT. PROVIDE NEW NEOPRENE GASKET AND SEAL WASHERS.
- 10 NEW SIGN ON NEW CONCRETE BASE. NEW SIGNS SHALL BE ADB L-858(L) FAA LED LIGHT BAR AIRFIELD GUIDANCE SIGNS.
- 11 TEMPORARY JUMPERS SHALL BE INSTALLED IN HDPE CONDUIT, SIZE AS REQUIRED, MINIMUM 1-1/4". SAND BAG CONDUIT EVERY 10 FEET ON CENTER USING BLACK SAND BAGS. UTILIZE EXISTING UNDERGROUND RACEWAYS WHERE POSSIBLE. #8, 5 kv AIRPORT CABLE SHALL BE JOINED USING L-823 CONNECTORS. XHW-2 CONDUCTORS SHALL BE JOINED USING APPROVED CRIMP CONNECTORS AND INSULATED TO 600 VOLTS MINIMUM. JUMPERS MAY BE OMITTED IF CIRCUITS CAN BE RESTORED IN ONE SHIFT, OR AS APPROVED BY THE ENGINEER.

GENERAL NOTES:

1. CONDUITS AND LIGHT BASES SHALL BE INSTALLED PRIOR TO PLACEMENT OF FINISH COURSE.
2. AIRFIELD LIGHTING CABLE SHALL BE #8 AWG, 5kv, FAA TYPE "C" AIRPORT CABLE.
3. CONNECT HDPE CONDUIT TO DISSIMILAR CONDUIT USING A LISTED TRANSITION FITTING.
4. PROVIDE LIGHT BASES WITH HUB CONFIGURATIONS TO ACCOMMODATE THE LAYOUT AS SHOWN IN THE PLANS. ROUTE CONDUIT FROM POINT TO POINT, IN A STRAIGHT LINE, EXCEPT AS REQUIRED TO AVOID AN OBSTRUCTION.
5. ALL BOLTS, NUTS, AND THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE LUBRICANT PER SPECIFICATIONS.
6. PROVIDE LIGHTNING PROTECTION COUNTERPOISE FOR ALL TAXIWAY LIGHTING CIRCUITS PER DETAIL 2/E4.02 AND 4/E4.02. #6 AWG BARE COPPER WIRE IS PAID UNDER ITEM L108.030.0006, GROUND RODS ARE PAID UNDER ITEM L108.070.0000.
7. HAND HOLE LOCATIONS MAY BE FIELD ADJUSTED AS APPROVED BY THE ENGINEER.
8. CONDUIT ROUTING SHOWN FOR CLARITY. ROUTE CONDUITS ON SHOULDER. CONDUITS THAT RUN IN CLOSE PROXIMITY MAY BE INSTALLED IN SAME TRENCH.
9. CONTRACTOR SHALL PROVIDE A LIST OF PROPOSED SPARE PARTS AND THE COST FOR EACH CATEGORY TO THE ENGINEER FOR REVIEW PRIOR TO PLACING THE ORDER FOR THE PARTS. QUANTITIES SHALL BE REDUCED IF NECESSARY UNTIL THE COSTS ARE WITHIN THE LIMITS OF THE FAA REQUIREMENTS. SEE SECTION L-125 FOR ADDITIONAL INFORMATION.
10. CONDUCTORS OF SEPARATE CIRCUITS SHALL BE IDENTIFIED BY COLORABLE INSULATION. THE COLORS GREEN AND WHITE SHALL NOT BE USED TO IDENTIFY SERIES CIRCUITS. COLOR SHALL RUN COMPLETELY THROUGH INSULATION. RUNWAY 10-28 = BLACK, RUNWAY 16-34 = RED, TAXIWAY = BLUE.
11. WORK IS SEPARATED INTO THE BID SCHEDULES LISTED BELOW.

SCHEDULE A: ALL WORK UNLESS NOTED OTHERWISE.
 SCHEDULE C: APRON FLOODLIGHTING, LOAD CENTER, AND UTILITY SERVICE.
 SCHEDULE E: ELECTRICAL FOR WEATHERPROOF OUTLETS (HBO).

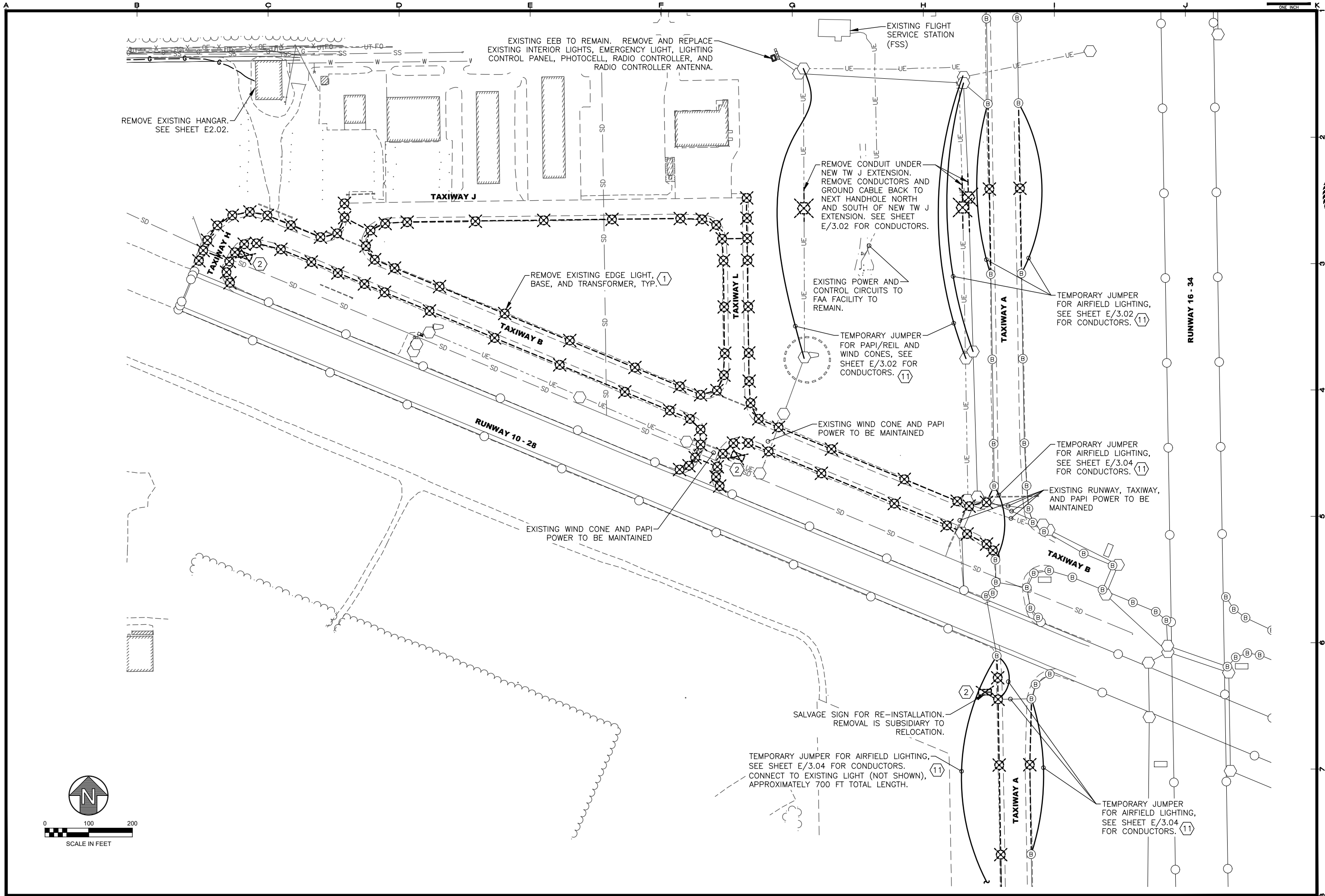
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE	
ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS	
SHEET	
E1.01	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	



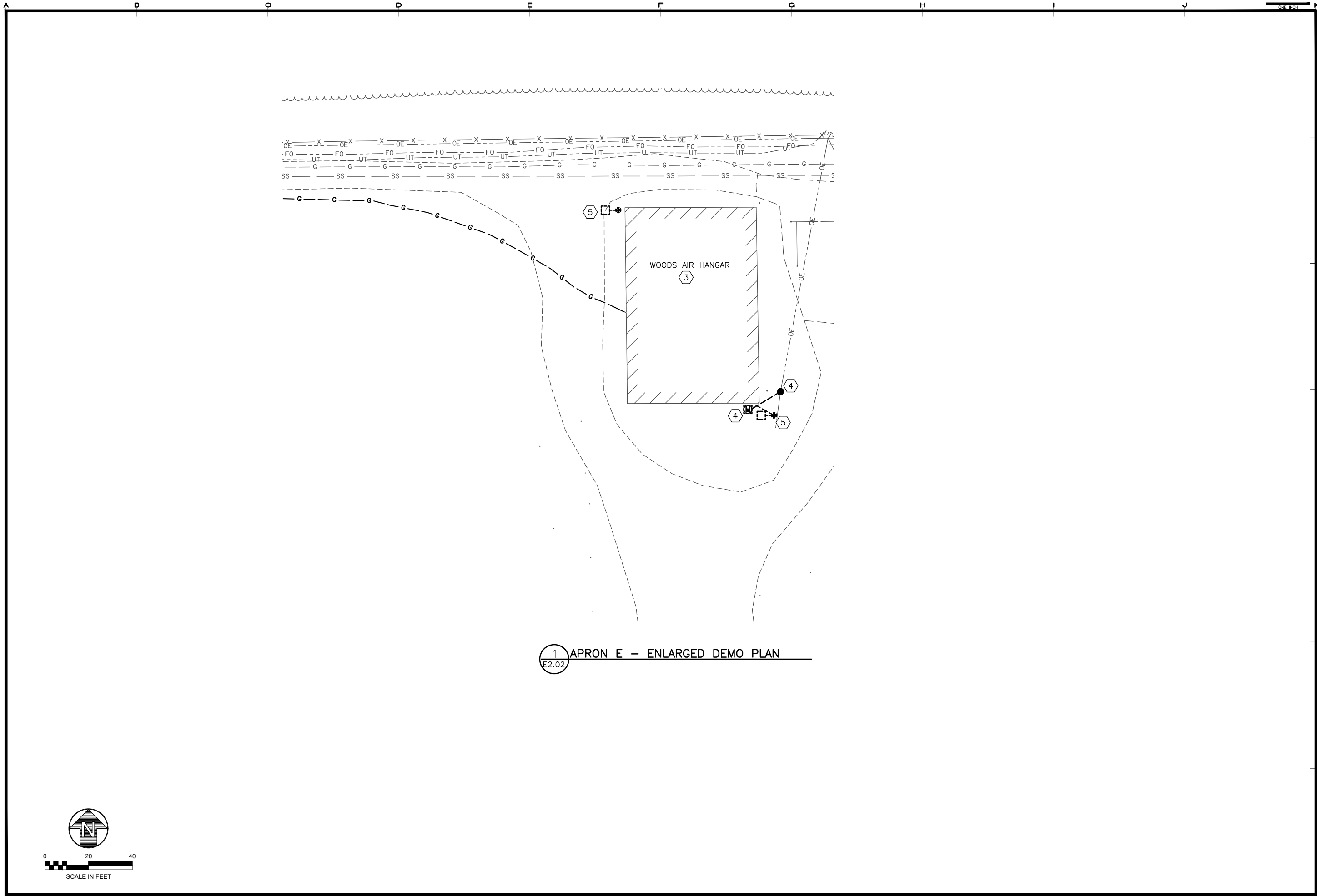
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WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
TAXIWAY DEMOLITION PLAN	
SHEET	
E2.01	
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DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	



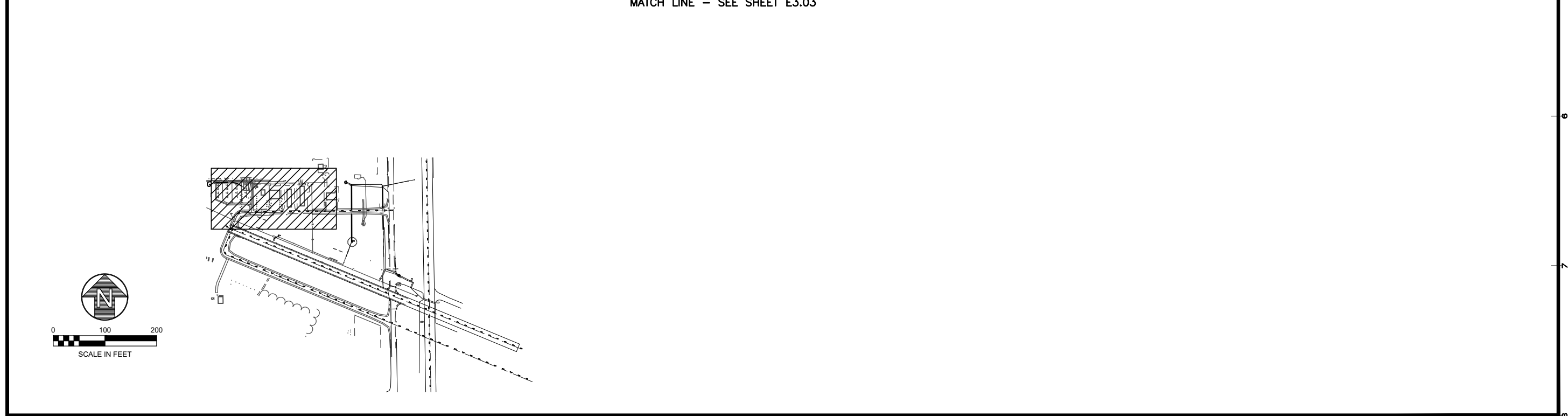
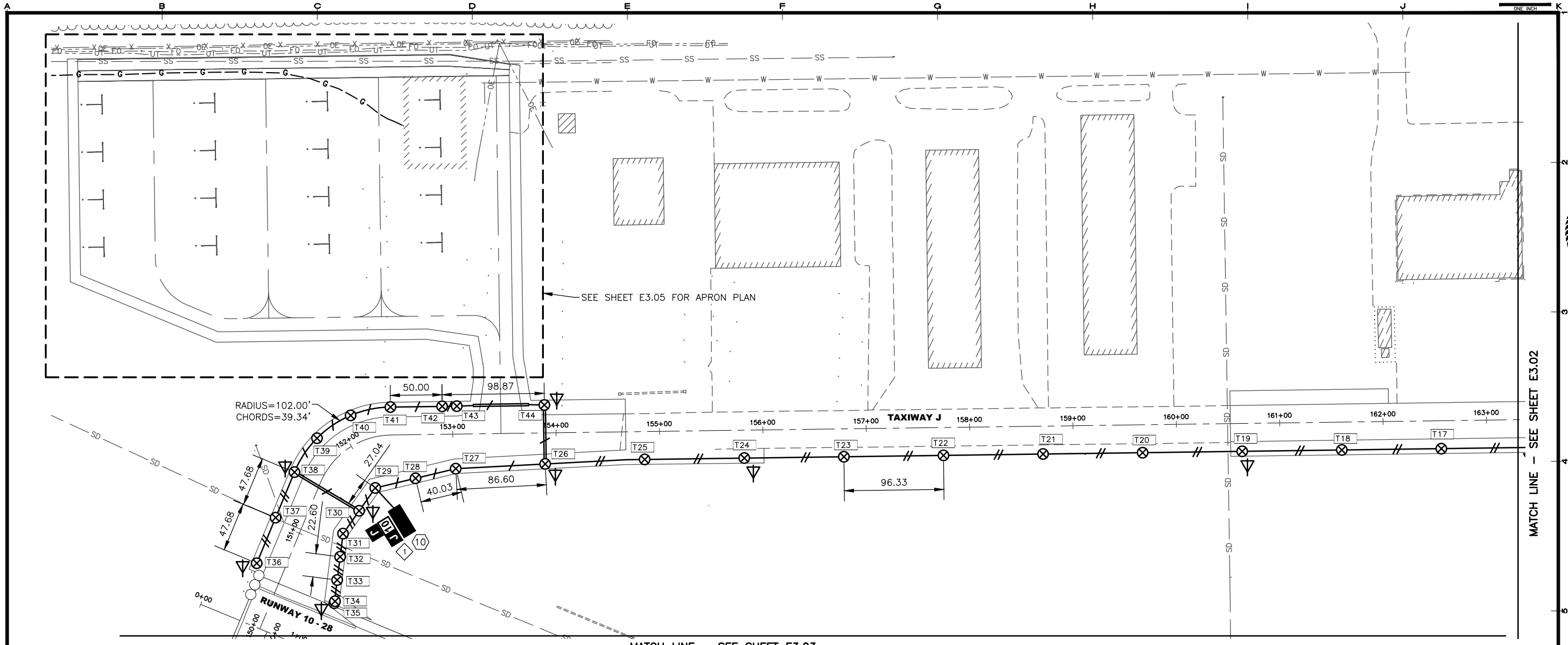
1 APRON E — ENLARGED DEMO PLAN
E2.02

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SHEET TITLE APRON E DEMOLITION PLAN	
SHEET E2.02	
DRAWN BY: DH	CHECKED BY: EC
DATE: JULY, 2022	SCALE: AS SHOWN
JOB NUMBER: 18-001-15	



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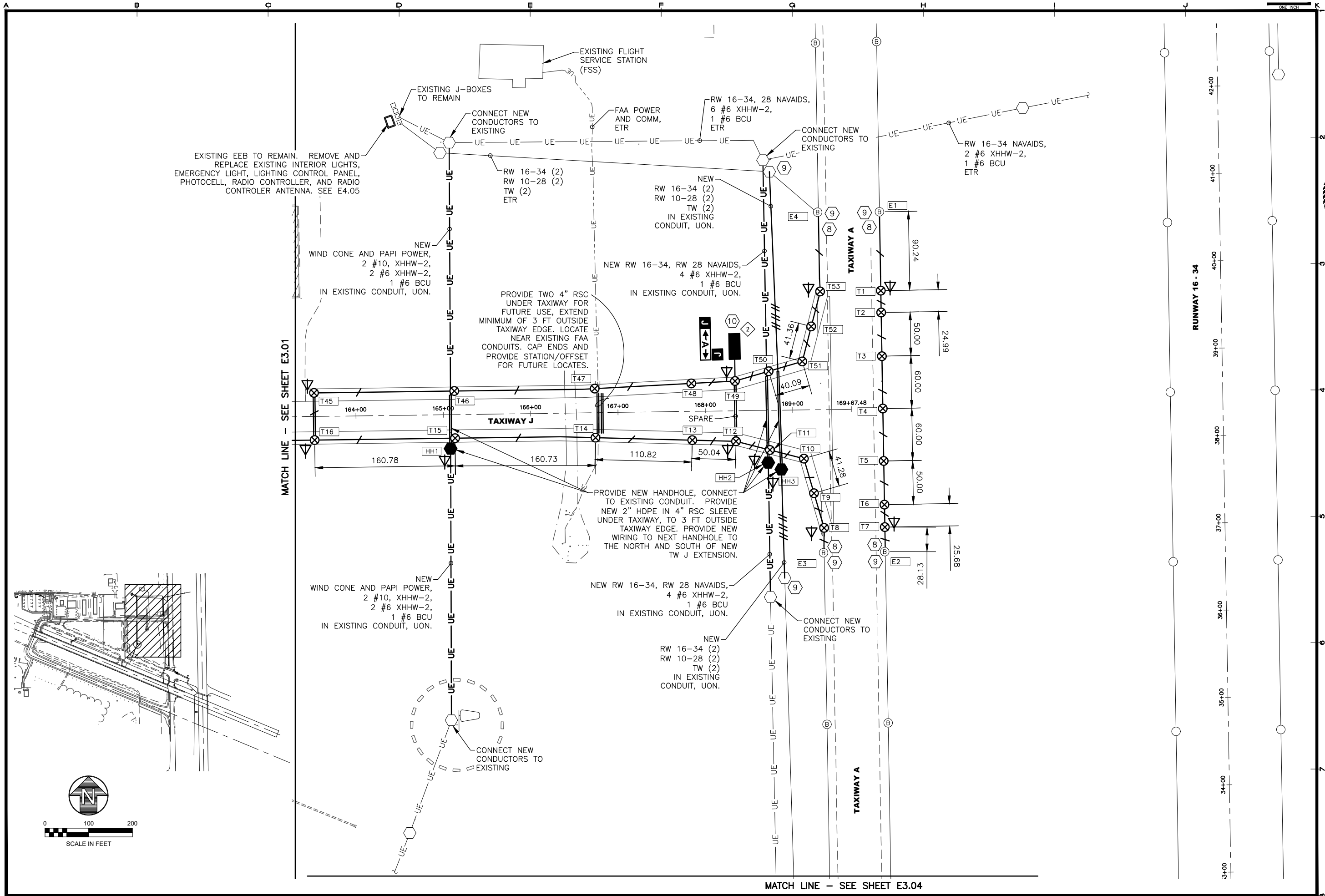
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE	
TAXIWAY J LIGHTING PLAN	
SHEET	
E3.01	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

MATCH LINE - SEE SHEET E3.02

MATCH LINE - SEE SHEET E3.03



EXISTING EEB TO REMAIN. REMOVE AND REPLACE EXISTING INTERIOR LIGHTS, EMERGENCY LIGHT, LIGHTING CONTROL PANEL, PHOTOCELL, RADIO CONTROLLER, AND RADIO CONTROLLER ANTENNA. SEE E4.05

NEW WIND CONE AND PAPI POWER, 2 #10, XHHW-2, 2 #6 XHHW-2, 1 #6 BCU IN EXISTING CONDUIT, UON.

PROVIDE TWO 4" RSC UNDER TAXIWAY FOR FUTURE USE, EXTEND MINIMUM OF 3 FT OUTSIDE TAXIWAY EDGE. LOCATE NEAR EXISTING FAA CONDUITS. CAP ENDS AND PROVIDE STATION/OFFSET FOR FUTURE LOCATES.

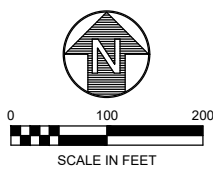
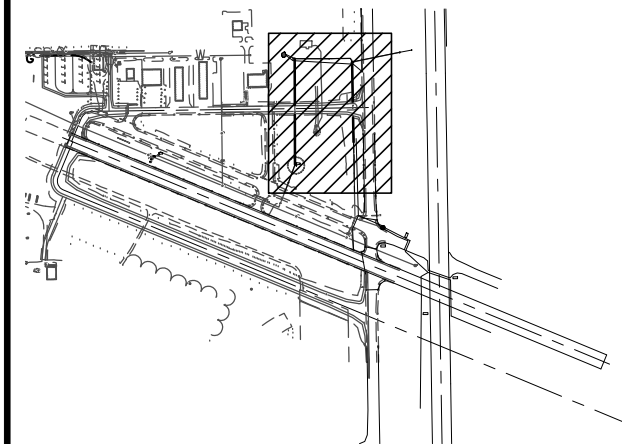
NEW RW 16-34, RW 28 NAVAIDS, 4 #6 XHHW-2, 1 #6 BCU IN EXISTING CONDUIT, UON.

PROVIDE NEW HANDHOLE, CONNECT TO EXISTING CONDUIT. PROVIDE NEW 2" HDPE IN 4" RSC SLEEVE UNDER TAXIWAY, TO 3 FT OUTSIDE TAXIWAY EDGE. PROVIDE NEW WIRING TO NEXT HANDHOLE TO THE NORTH AND SOUTH OF NEW TW J EXTENSION.

NEW WIND CONE AND PAPI POWER, 2 #10, XHHW-2, 2 #6 XHHW-2, 1 #6 BCU IN EXISTING CONDUIT, UON.

NEW RW 16-34, RW 28 NAVAIDS, 4 #6 XHHW-2, 1 #6 BCU IN EXISTING CONDUIT, UON.

NEW RW 16-34 (2), RW 10-28 (2), TW (2) IN EXISTING CONDUIT, UON.



MATCH LINE - SEE SHEET E3.01

MATCH LINE - SEE SHEET E3.04

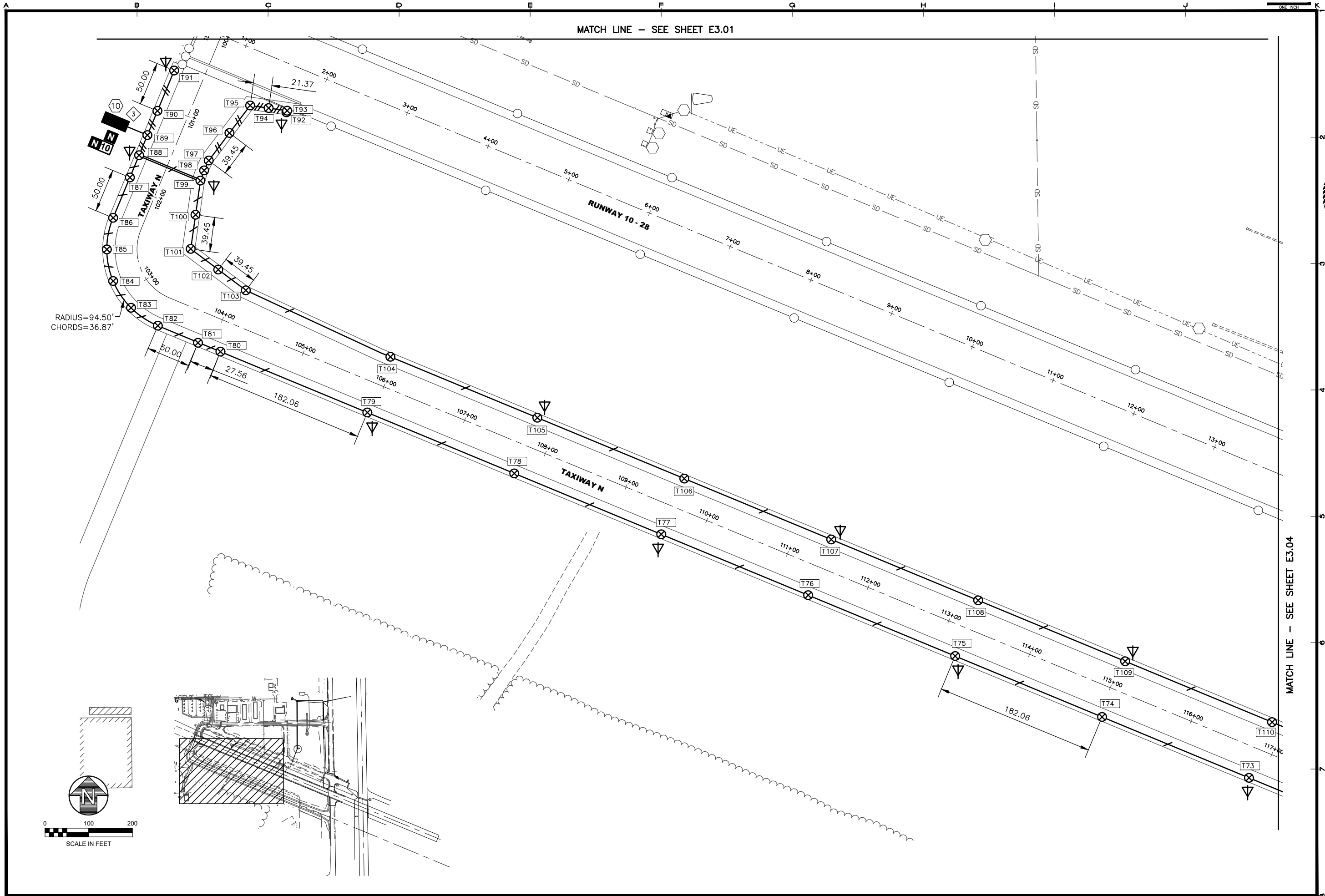
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WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
TAXIWAY J LIGHTING PLAN	
SHEET	
E3.02	
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DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	



MATCH LINE - SEE SHEET E3.01

RADIUS=94.50'
CHORDS=36.87'

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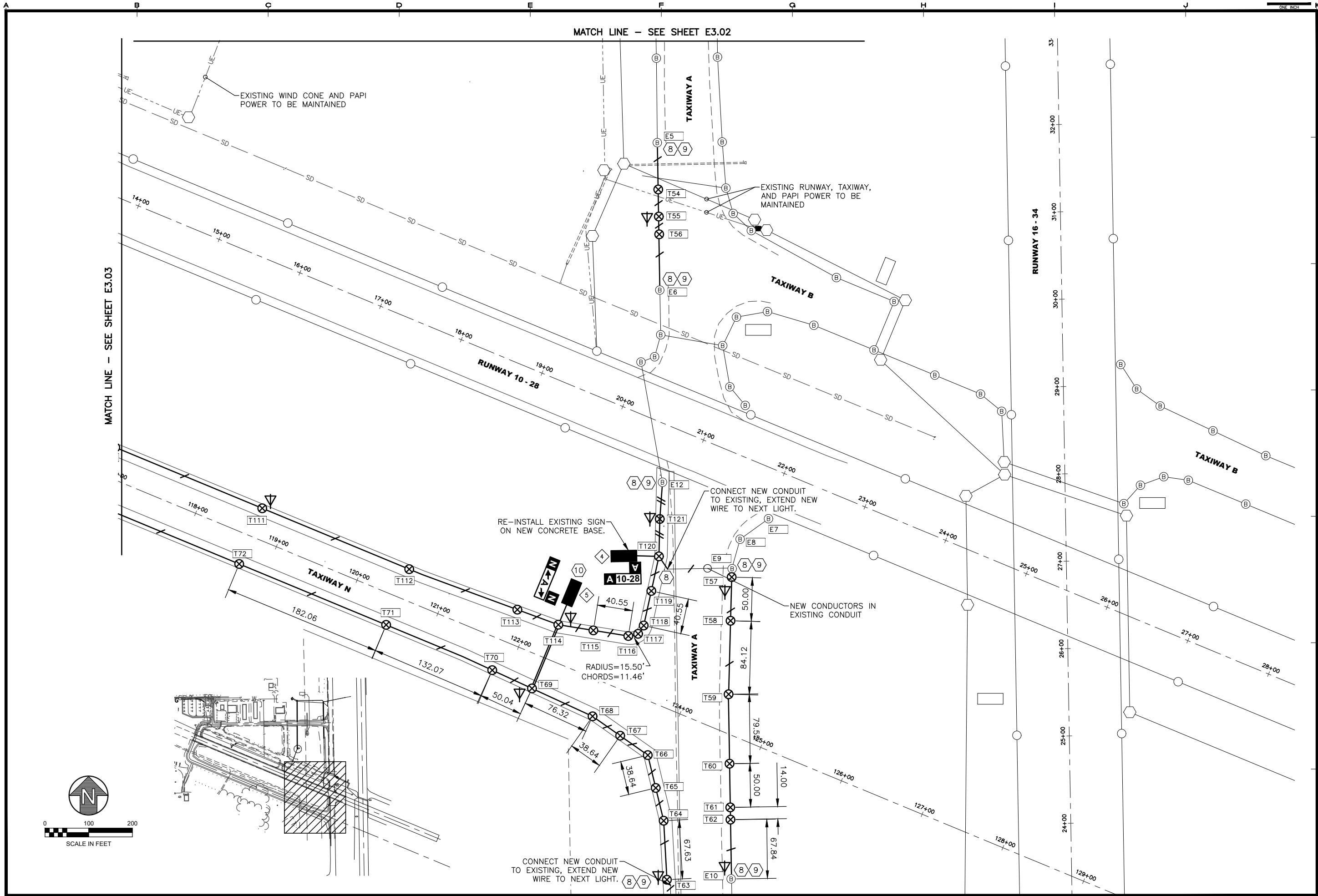


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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
TAXIWAY N LIGHTING PLAN	
SHEET	
E3.03	
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DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

MATCH LINE - SEE SHEET E3.04



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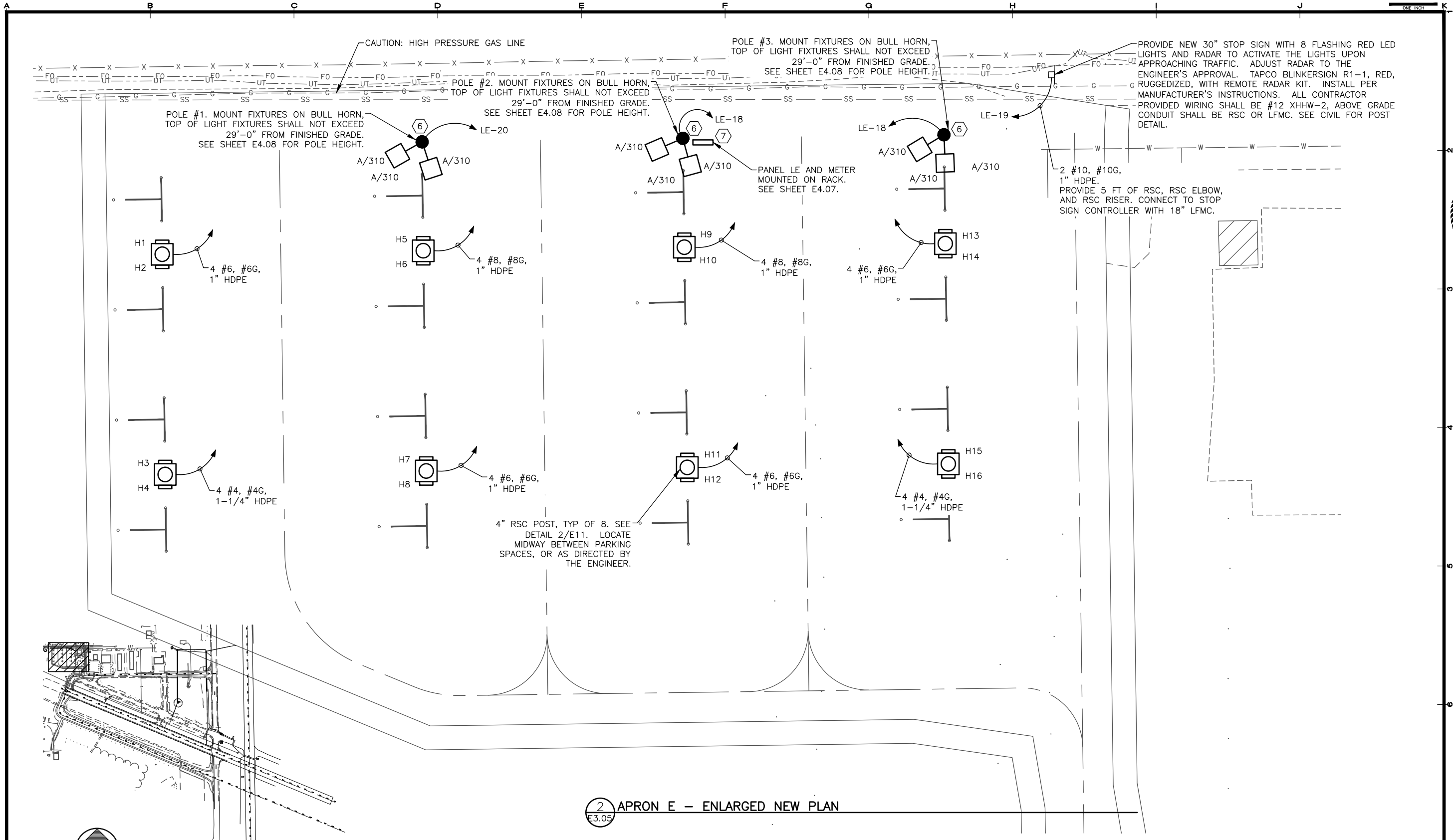
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TAXIWAY N LIGHTING PLAN

SHEET
E3.04

DRAWN BY: DH
CHECKED BY: EC

DATE: JULY, 2022
SCALE: AS SHOWN

JOB NUMBER: 18-001-15



2 APRON E - ENLARGED NEW PLAN
E3.05



0 40 80
SCALE IN FEET

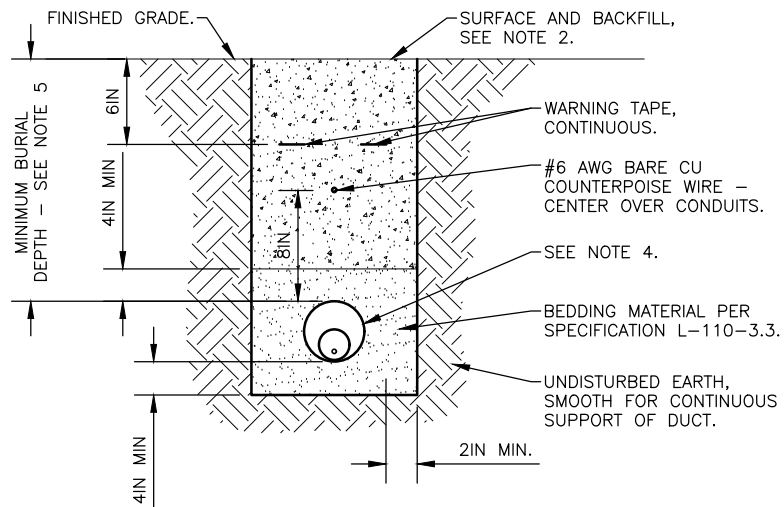
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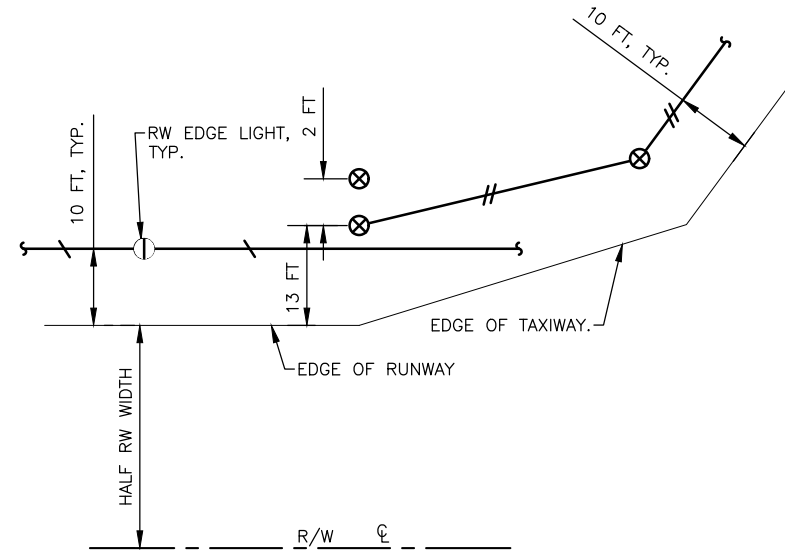
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
APRON E FLOODLIGHTING, HBO RECEPTACLES, AND STOP SIGN	
SHEET	
E3.05	
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JULY, 2022	AS SHOWN
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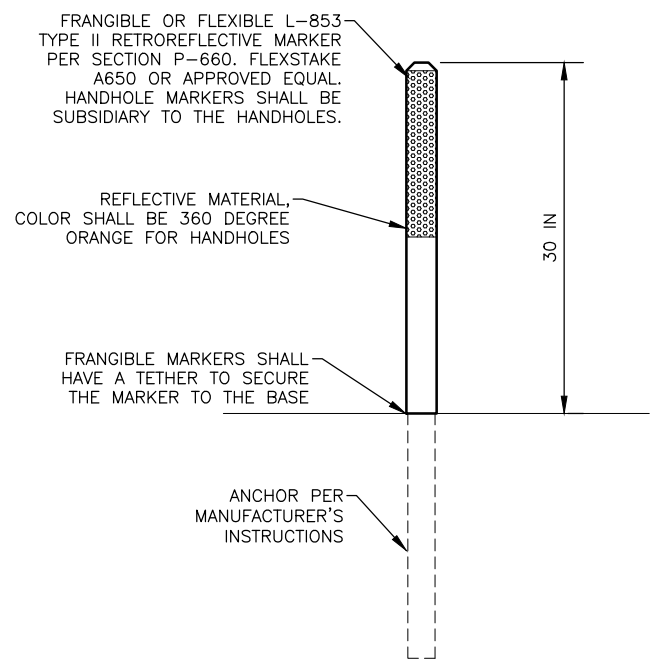


1 CONDUIT CROSSING DETAIL
E4.01 NTS

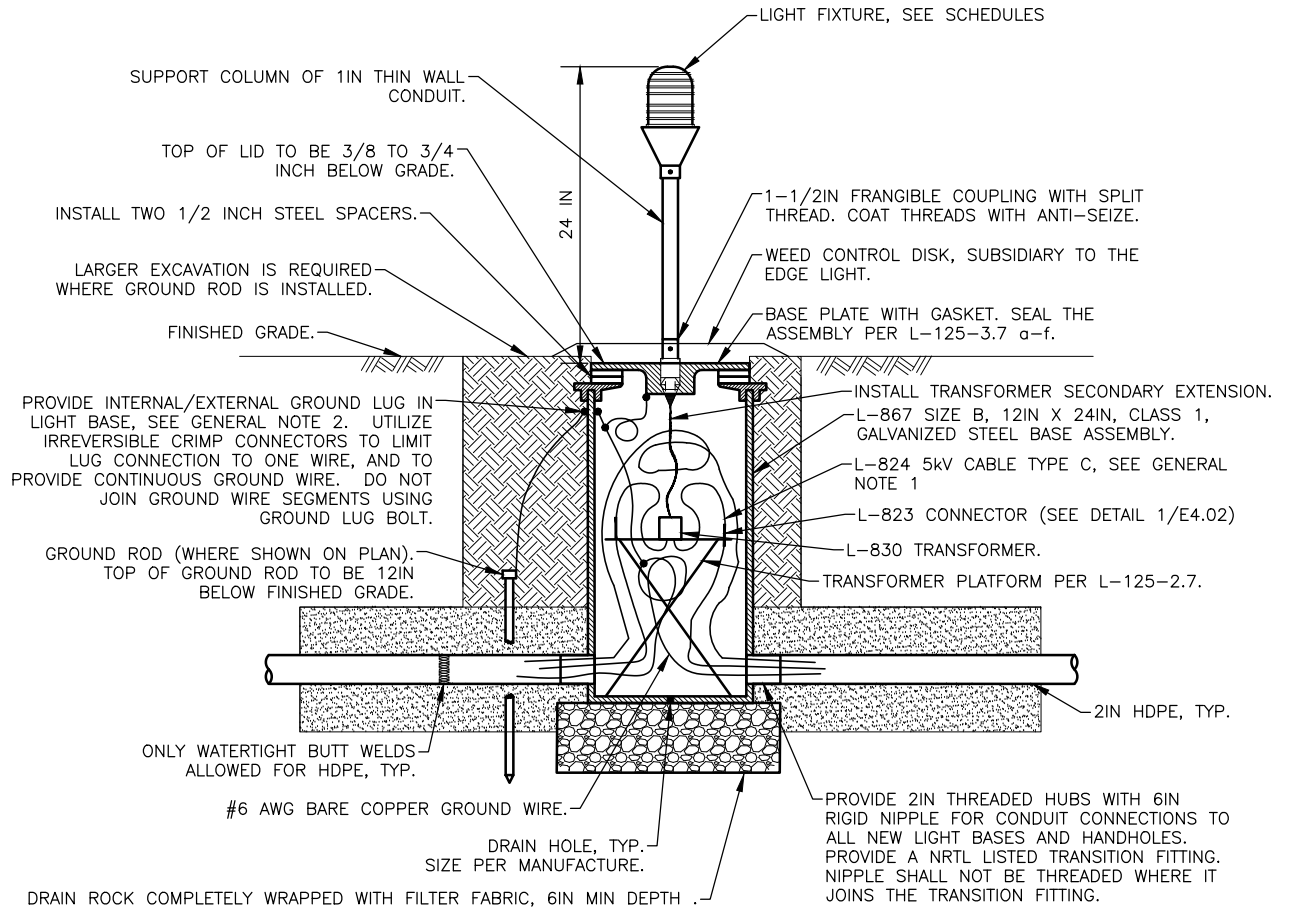
- DETAIL 1 NOTES:**
1. WIDTH OF TRENCH SHALL BE MINIMUM 12".
 2. IN AREAS OF NEW CONSTRUCTION, SEE CIVIL FOR SURFACING AND BACKFILL. IN EXISTING AREAS, MATCH EXISTING SURFACING AND BACKFILL.
 3. SEPARATION BETWEEN CONDUITS SHALL BE 4IN MINIMUM FOR LIGHTING SYSTEMS, 12 IN MINIMUM BETWEEN LIGHTING AND FAA SYSTEMS.
 4. 2IN HDPE THROUGH A 4IN RSC SLEEVE, TYP.
 5. MINIMUM BURIAL DEPTH: SEE DETAIL 2/E4.02



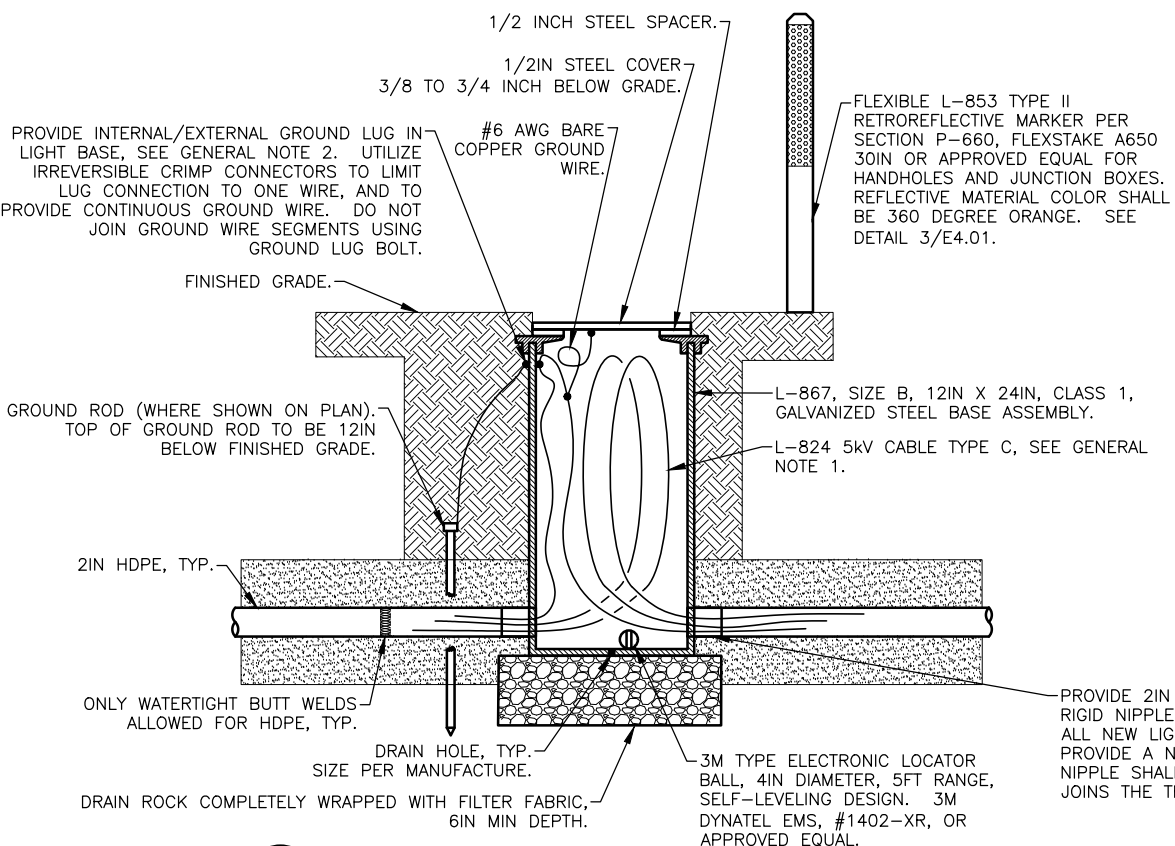
2 TW ENTRANCE/EXIT LIGHT DETAIL
E4.01 NTS



3 RETROREFLECTIVE MARKER DETAIL
E4.01 NTS



4 STEEL L-867 BASE MOUNTED LIGHT DETAIL
E4.01 NTS



5 STEEL L-867 HANDHOLE DETAIL
E4.01 NTS

- GENERAL NOTES:**
1. CABLES AND GROUND STRAPS SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 36IN ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED WITH CIRCUIT NUMBER 6IN FROM CONNECTOR WITH "FLAG TAG" MARKERS OR APPROVED EQUAL.
 2. GROUND FIXTURES AND HANDHOLE COVERS WITH MINIMUM #6 AWG STRANDED COPPER, GREEN INSULATED CONDUCTOR OR WITH EQUIVALENT COPPER BRAIDED GROUND STRAP. BOND TO FIXTURE PER MANUFACTURER'S INSTRUCTIONS.

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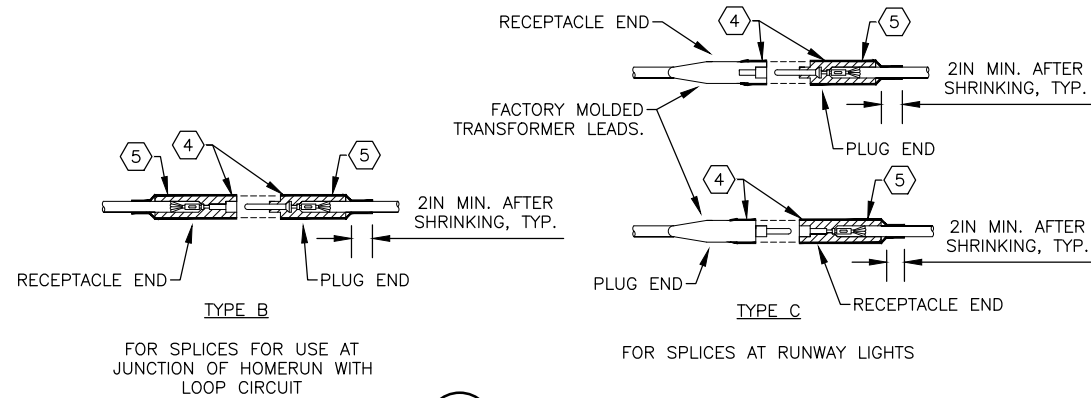
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WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

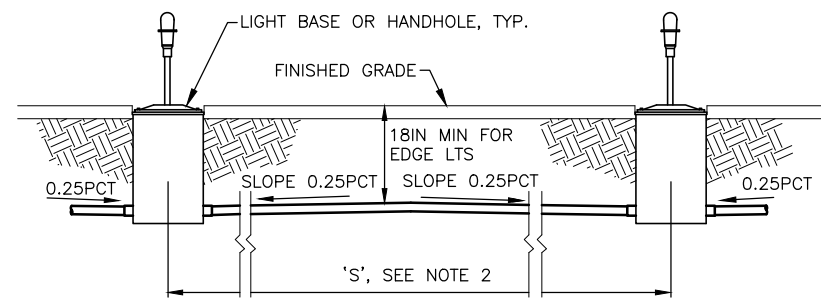
SHEET TITLE	
LIGHT BASE, MARKER HANDHOLE, TAXIWAY ENTRANCE, AND CROSSING DETAILS	
SHEET	
E4.01	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

DETAIL NOTES:

- CABLE SHALL MEET SPECIFICATION L-824. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE. CONNECTOR SHALL BE SUPPLIED TO MATCH CABLE PER MANUFACTURER'S INSTRUCTIONS.
- 5 KV CONDUCTORS SHALL BE PENCILING USING A PENCILING TOOL MANUFACTURED FOR USE ON #8 AWG, 5 KV, TYPE C AIRPORT CABLE.
- CONNECTIONS OF CABLE CONDUCTORS SHALL BE MADE USING CRIMP CONNECTORS USING A CRIMPING TOOL DESIGNED TO MAKE A COMPLETE CRIMP BEFORE THE TOOL CAN BE REMOVED. ALL L-823/L-824 SPLICES AND TERMINATIONS SHALL BE MADE PER THE MANUFACTURER'S RECOMMENDATIONS AND LISTINGS.
- WRAP WITH A MINIMUM OF ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1.5IN ON EACH SIDE OF JOINT. COVER WITH HEAT SHRINK, SEE NOTE 5.
- HEAT SHRINKABLE TUBING SHALL BE 16IN LONG, HAVE INTERNAL ADHESIVE FULL LENGTH, AND APPLIED FULL LENGTH TO CONNECTORS & CABLE TO HAVE A COMPLETE SEAL.



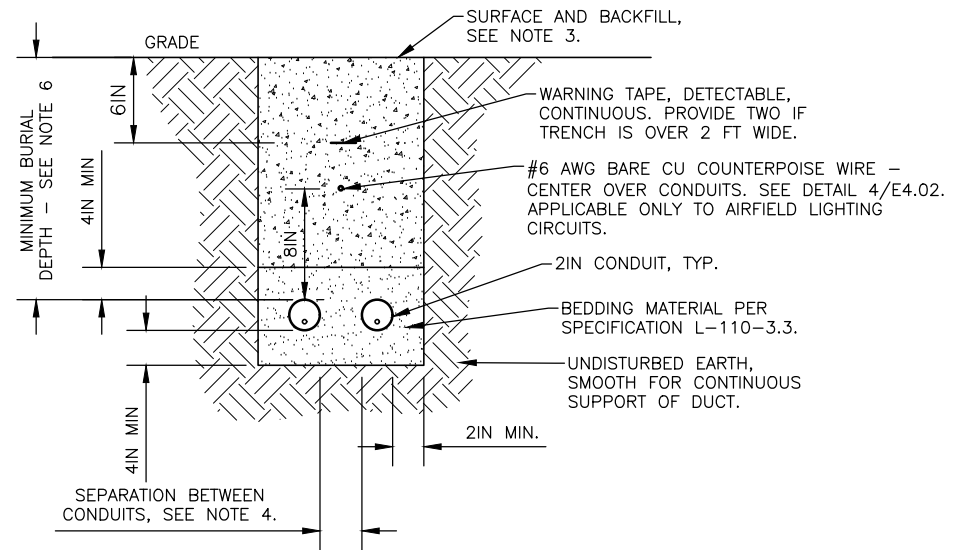
1 L-823 CONNECTOR DETAILS
E4.02 NTS



DETAIL NOTES:

- CONDUIT SHALL BE INSTALLED WITH CROWN TO DRAIN TO LIGHT BASES AS SHOWN.
- IF 'S' IS LESS THAN 20FT, OR IF 0.25PCT SLOPE CAN BE MAINTAINED IN ONE DIRECTION DUE TO SLOPE OF GRADE, LAY CONDUIT STRAIGHT WITHOUT CROWN BETWEEN BASES/HANDHOLES.

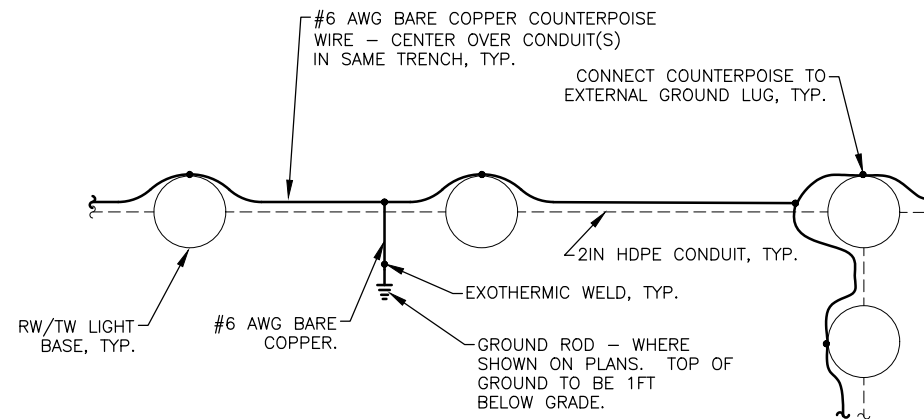
3 TYPICAL INTERCONNECTION DETAIL
E4.02 NTS



DETAIL NOTES:

- WIDTH OF TRENCH AND NUMBER OF CONDUITS PER TRENCH TO BE DETERMINED IN FIELD (2 SHOWN).
- INSTALL NEW LIGHT BASES AND CONDUITS PRIOR TO FINAL GRADING.
- IN AREAS OF NEW CONSTRUCTION, SEE CIVIL FOR SURFACING AND BACKFILL. IN EXISTING AREAS, MATCH EXISTING SURFACE AND BACKFILL.
- SEPARATION BETWEEN CONDUITS SHALL BE 4IN MINIMUM FOR LIGHTING SYSTEMS. PROVIDE 12IN MINIMUM SEPARATION BETWEEN 5 KV CIRCUITS AND 120V CIRCUITS.
- 12IN MINIMUM SEPARATION BETWEEN LIGHTING AND FAA SYSTEMS.
- MINIMUM BURIAL DEPTH SHALL BE AS FOLLOWS:
 - AIRPORT LIGHTING CONDUITS: 18IN
 - APRON ELECTRICAL CONDUITS: 24IN
 - ALL OTHER CONDUITS: 30IN OR AS INDICATED

2 TRENCH DETAIL
E4.02 NTS



4 AIRFIELD LIGHTING COUNTERPOISE TYPICAL LAYOUT PLAN
E4.02 NTS

REVISIONS	MARK	DATE	DESCRIPTION
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE	
CONNECTOR, TRENCH COUNTERPOISE, AND INTERCONNECTION DETAILS	
SHEET	
E4.02	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

A B C D E F G H I J K ONE INCH

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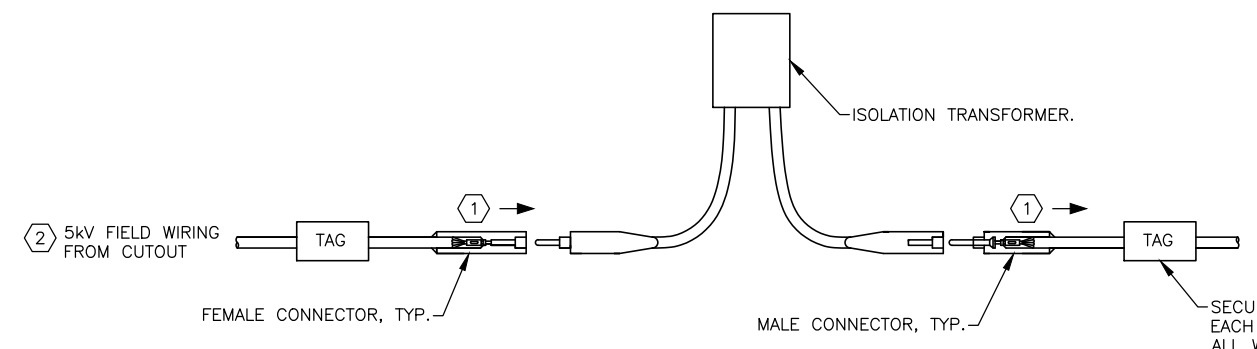
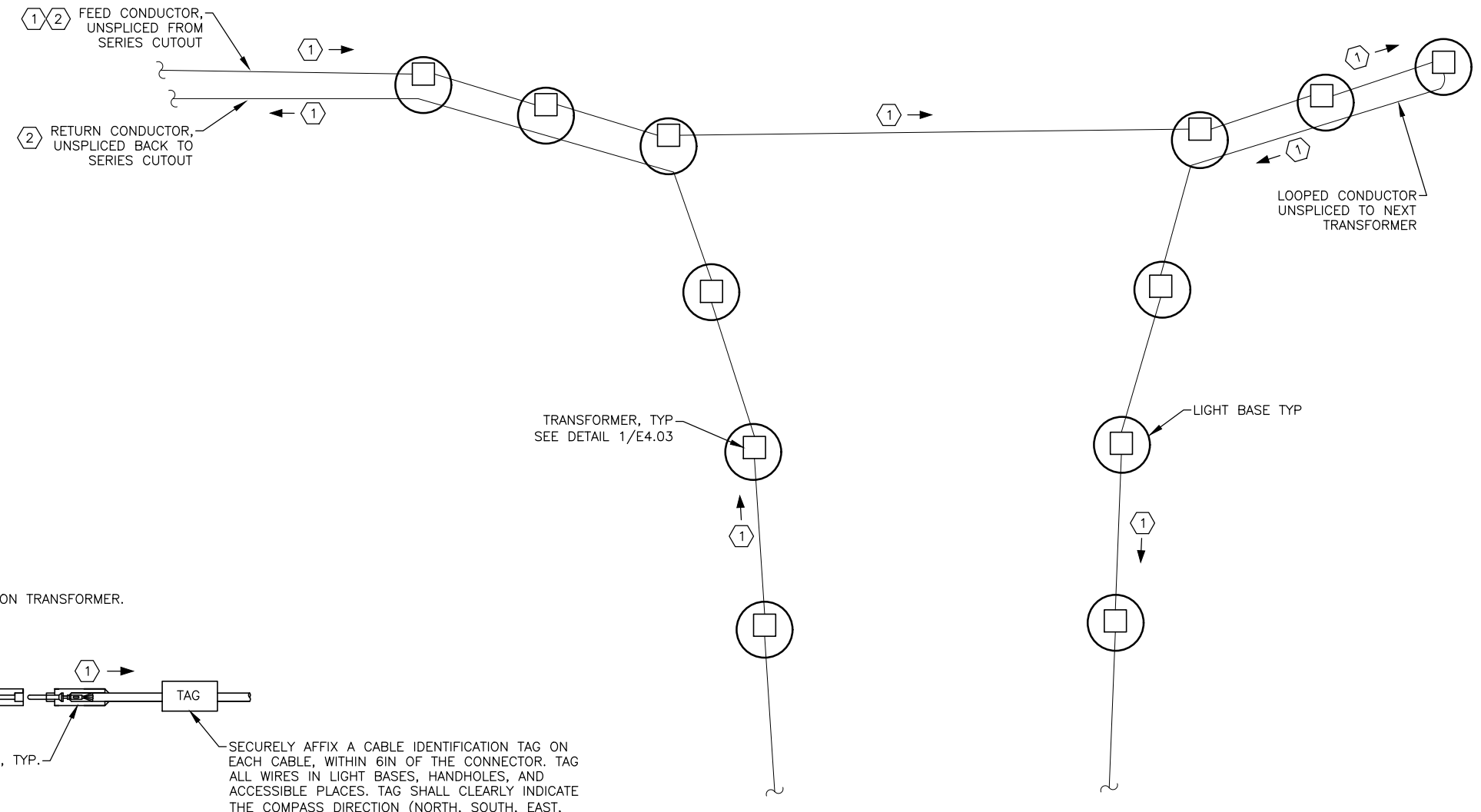


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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
 AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
 PALMER, ALASKA

SHEET TITLE	
FIELD WIRING SCHEMATIC	
SHEET	
E4.03	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

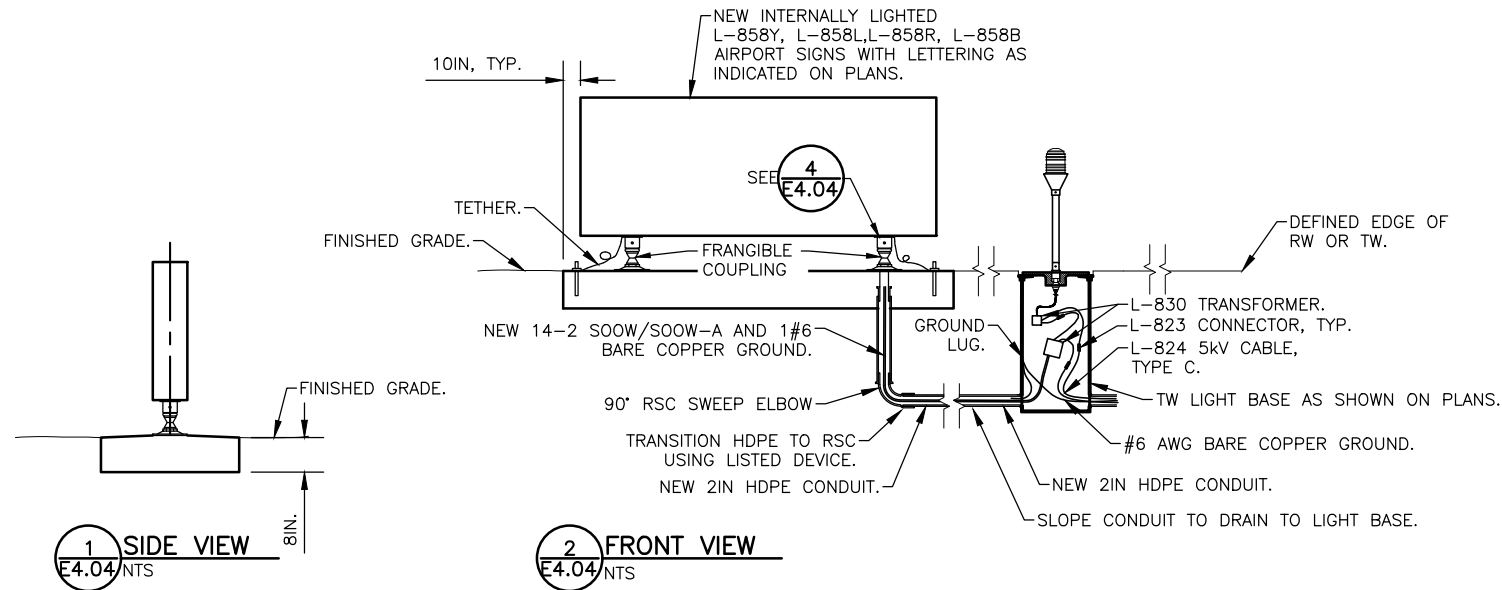
- SHEET NOTES - THIS SHEET:**
- ① ARRANGE THE LIGHTING CIRCUIT TO FLOW CLOCKWISE AROUND THE RUNWAY AND TAXIWAY WITH THE FEMALE CONNECTOR ON THE REGULATOR SIDE OF THE TRANSFORMER.
 - ② ALL TRANSFORMER CONNECTIONS SHALL BE MADE ON THE FEED SIDE OF THE SERIES LOOP. RETURN AND LOOP CONDUCTORS SHALL BE CONTINUOUS AND UNSPLICED.



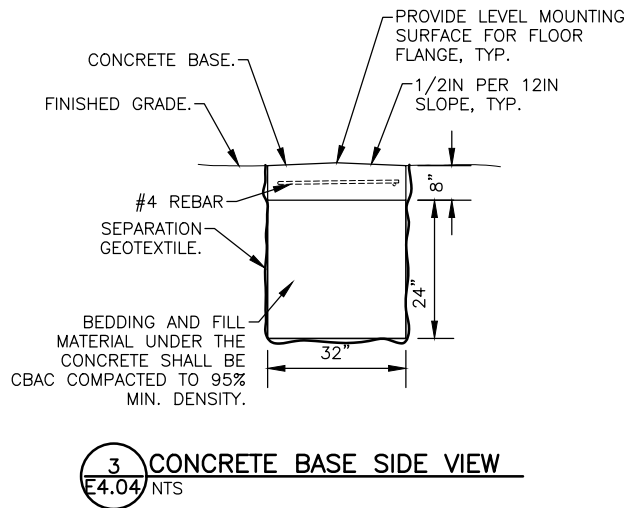
SECURELY AFFIX A CABLE IDENTIFICATION TAG ON EACH CABLE, WITHIN 6IN OF THE CONNECTOR. TAG ALL WIRES IN LIGHT BASES, HANDHOLES, AND ACCESSIBLE PLACES. TAG SHALL CLEARLY INDICATE THE COMPASS DIRECTION (NORTH, SOUTH, EAST, WEST) OF THE CABLE ENTERING THE LIGHT BASE, AND THE WORD "OUT" IF THE CABLE IS FEEDING THE NEXT LIGHT, OR AS APPROVED BY THE ENGINEER. TAGS SHALL BE DURABLE, FLEXIBLE, RUBBER LIKE THAT WILL NOT DAMAGE CONDUCTOR INSULATION. ATTACHMENT METHOD SHALL PREVENT TAG SLIPPAGE. RIGID LOCKING METAL OR PLASTIC STRAPS ARE PROHIBITED. MARKING ON TAG SHALL BE PERMANENT.

① **CONNECTOR ORIENTATION DETAIL**
 E4.03/NTS

② **FIELD WIRING SCHEMATIC**
 E4.03/NTS

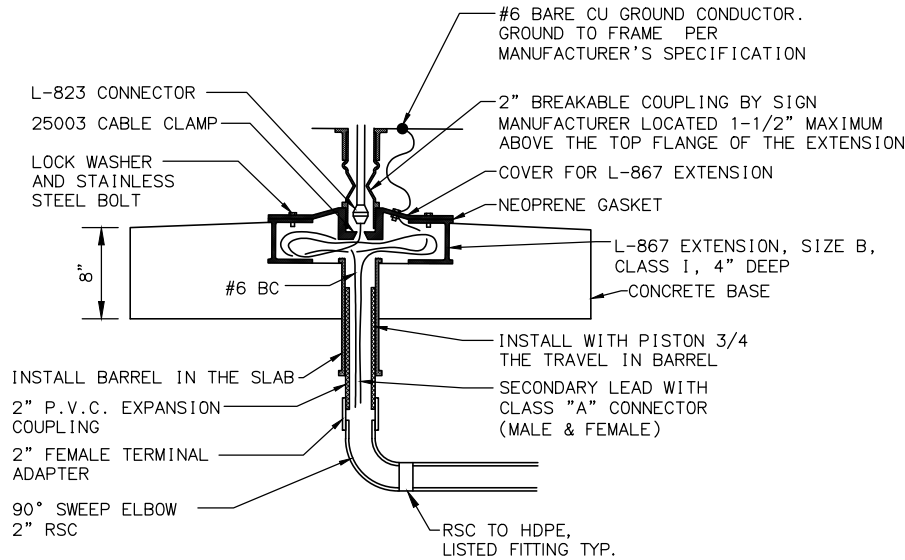


L-858 SIGN DETAILS

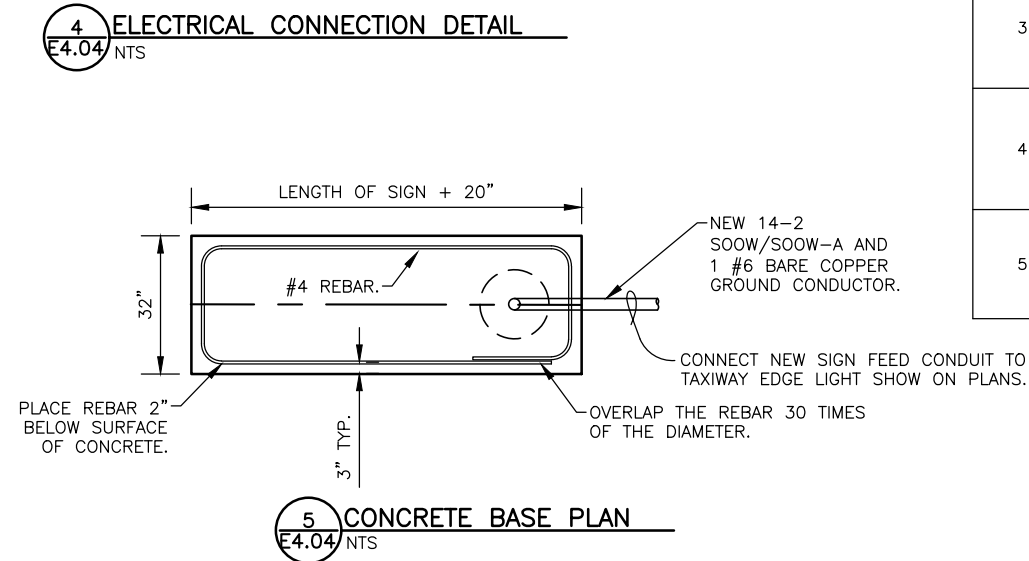


SIGN NOTES:

- ALL CIRCUITS 6.6 A
- PROVIDE NEW TRANSFORMERS, SECONDARY WIRING, AND GROUNDING. TRANSFORMER WATTAGE SIZE PER MANUFACTURER'S SPECIFICATION.
- ATTACH SIGNS TO CONCRETE BASE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL CERTIFY THE CONCRETE BASE IS CONSTRUCTED TO MEET SPECIFICATION P610. CONCRETE BASE SHALL BE LEVEL AND PERPENDICULAR TO RW OR TW CENTERLINE.
- CONDUIT SHALL MEET SPECIFICATION L-110.
- CABLE AND CONDUCTORS SHALL MEET SPECIFICATION L-108.
- BEDDING, BACK FILL AND FINISH GRADE RESTORATION SHALL BE SUBSIDIARY TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
- ALL CABLES PASSING THROUGH BASE SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 3' ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED.
- SIGNS TO BE INSTALLED SO THAT THE FACE IS PERPENDICULAR TO THE CENTERLINE OF RUNWAY OR TAXIWAY.
- STATION AND OFFSET REFER TO THE EDGE OF THE SIGN NEAREST THE RUNWAY OR TAXIWAY. SEE SCHEDULE.
- OFFSETS LISTED IN THE SIGN SCHEDULE ARE FROM THE CENTERLINE OF THE RUNWAY OR TAXIWAY.
- SIGN PANELS ARE NUMBERED STARTING WITH THE PANEL CLOSEST TO THE RUNWAY OR TAXIWAY EDGE.



PALMER SIGN SCHEDULE														
SIGN NUMBER	SIZE	STYLE	CLASS	MODE	STATUS	SIDE	TYPE	PURPOSE	LEGEND	LEGEND COLOR	FACE COLOR	ALIGNMENT	STATION	OFFSET
1	2	2	2	2	NEW	NORTH	L-858R(L)	MANDATORY INSTRUCTION SIGN	10	WHITE	RED	TW J	152+42.22	70.90 R
						SOUTH	L-858L(L)	TAXIWAY LOCATION SIGN	J	YELLOW	BLACK			
2	2	2	2	2	NEW	EAST	L-858L(L)	TAXIWAY LOCATION SIGN	J	YELLOW	BLACK	TW J	168+34.40	59.00 L
						WEST	L-858L(L)	TAXIWAY LOCATION SIGN	J	YELLOW	BLACK			
						WEST	L-858Y(L)	TAXIWAY DIRECTION SIGN	<-A->	BLACK	YELLOW			
3	2	2	2	2	NEW	NORTH	L-858R(L)	MANDATORY INSTRUCTION SIGN	10	WHITE	RED	TW N	101+37.54	59.50 R
						SOUTH	L-858L(L)	TAXIWAY LOCATION SIGN	N	YELLOW	BLACK			
4	2	2	2	2	RELOCATED	EAST	L-858R(L)	MANDATORY INSTRUCTION SIGN	10-28	WHITE	RED	TW N	122+84.96	148.26 L
						WEST	L-858L(L)	TAXIWAY LOCATION SIGN	A	YELLOW	BLACK			
						WEST	L-858L(L)	TAXIWAY LOCATION SIGN	A	YELLOW	BLACK			
5	2	2	2	2	NEW	EAST	L-858L(L)	TAXIWAY LOCATION SIGN	N	YELLOW	BLACK	TW N	122+32.39	66.08 L
						WEST	L-858L(L)	TAXIWAY LOCATION SIGN	N	YELLOW	BLACK			
						WEST	L-858Y(L)	TAXIWAY DIRECTION SIGN	<-A->	BLACK	YELLOW			



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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE SIGN DETAILS	
SHEET E4.04	
DRAWN BY: DH	CHECKED BY: EC
DATE: JULY, 2022	SCALE: AS SHOWN
JOB NUMBER: 18-001-15	

PANEL: A
PROJECT: PALMER AIRPORT EEB

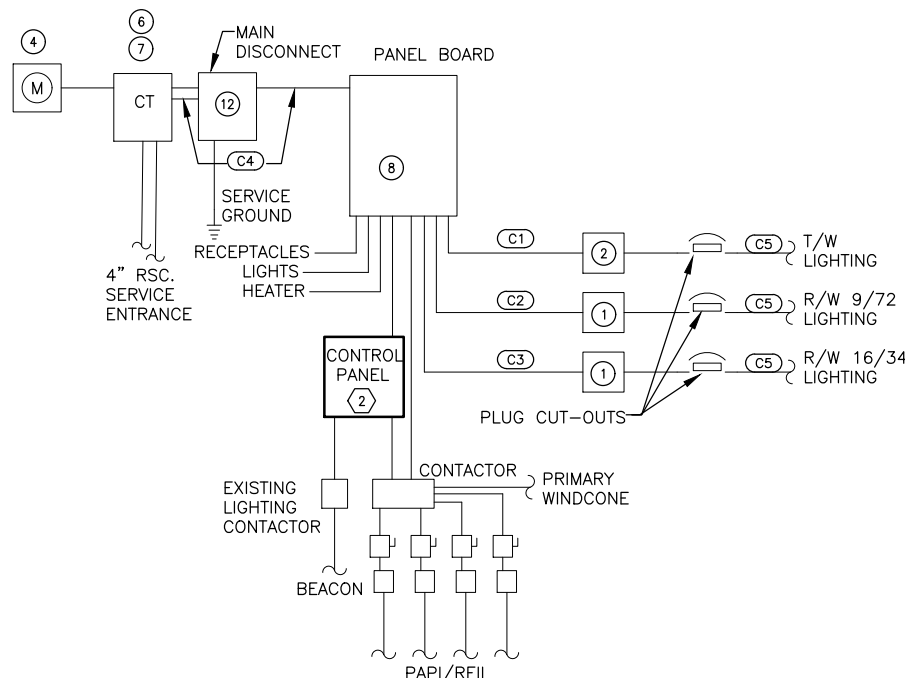
120/240 VOLTS		1PH		3 WIRE		400 AMP		22000 AIC	
CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION		
RECEPTACLES	0.4	20/1	1	2	30		SPARE		
L-854 AND L-841	0.4	20/1	3	4	2				
BEACON AND OBSTRUCTION LTGS.	1.0	30	5	6	40	7.5	RUNWAY 10-28 LIGHTS		
			7	8	2				
LIGHTS	.2	20/1	9	10	40	7.5	RUNWAY 16-34 LIGHTS		
HEATER AND EXHAUST FANS	2.0	20	11	12	2				
NORTH RW 16-34 APRCH LTS	2.5	100	13	14	20/1	0.2	PRIMARY WIND CONE		
SOUTH RW 16-34 APRCH LTS	2.5	100	15	16	100	1.1	WEST RW 10-28 APPROACH LIGHTS		
			17	18	2				
			19	20	100	1.1	EAST RW 10-28 APPROACH LIGHTS		
			21	22	2				
			23	24					
			25	26					
			27	28					
			29	30					
					110	25	TAXIWAY REGULATOR *		
CONNECTED LOAD	51.4	KVA	214	A					
DEMAND LOAD		KVA		A					
DMD + CONT	64.2	KVA	267	A					
DATE:									
REV:	0								

REMARKS: * TAXIWAY REGULATOR IS SUBFEED CIRCUIT BREAKER

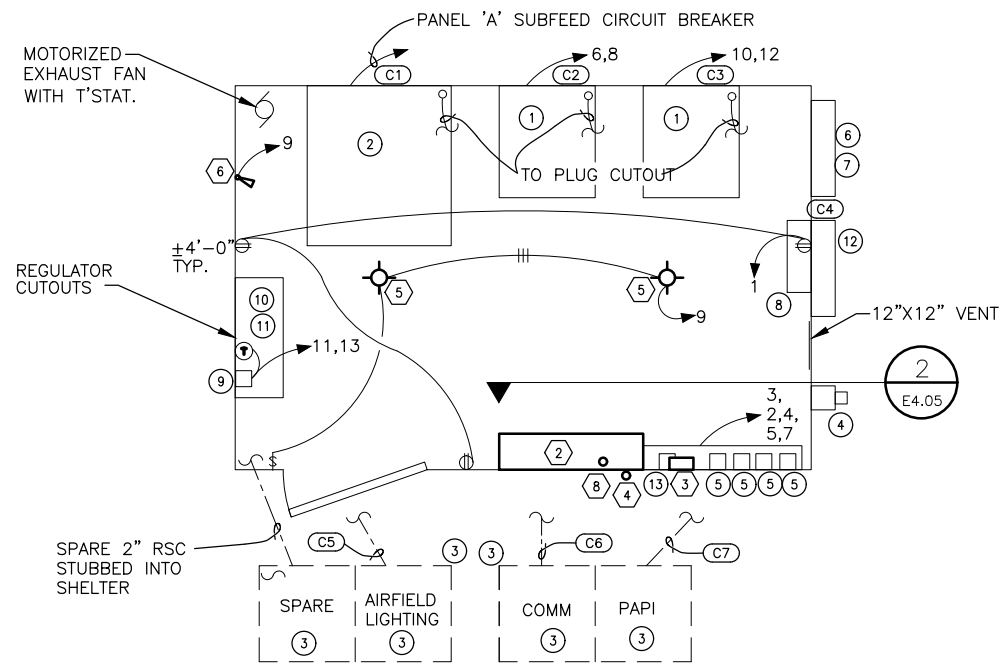
WIRE SIZING SCHEDULE (ETR UNLESS NOTED OTHERWISE)

- (C1) 1 1/2" EMT W/2-#1 XHHW-2, #6 BARE CU.
- (C2) 1" EMT W/2-#8 XHHW-2, #6 BARE CU.
- (C3) 1" EMT W/2-#8 XHHW-2, #6 BARE CU.
- (C4) 4" RSC 2/3-500 KCML XHHW-2, #2 BARE CU.
- (C5) 2" RSC W/2 5KV #8 AIRPORT CABLE, #6 BARE CU. BELOW SLAB
- (C6) 2" RSC W/25 PR 19 GA. SHIELDED CABLE PE-39 BELOW SLAB
- (C7) 2" RSC W/4-#6 XHHW-2 #10 BARE CU. BELOW SLAB
- (C8) 1" RSC W/4-#8 XHHW-2 #8 BARE CU BELOW SLAB

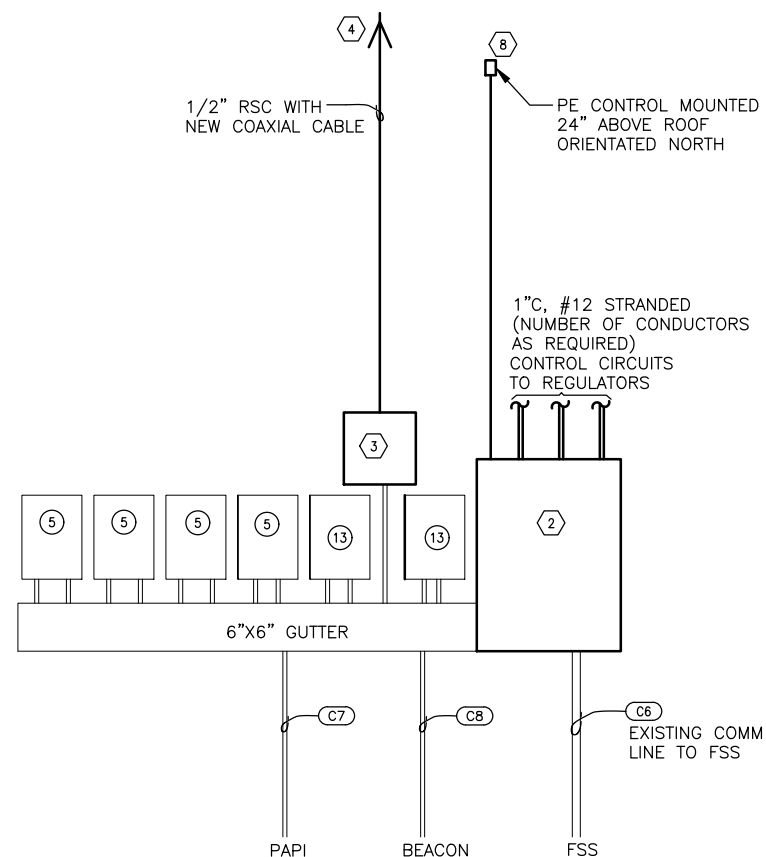
COMPRESSION EMT FITTINGS SHALL BE USED.
NO DIE CAST FITTINGS WILL BE PERMITTED.



3 POWER ONE-LINE DIAGRAM
E4.05 NTS



1 EQUIPMENT ENCLOSURE BUILDING
E4.05 NTS



2 SECTION PLAN
E4.05 NTS

NEW EQUIPMENT - SYMBOLS APPLY TO THIS SHEET

- (1) NOT USED
- (2) LIGHTING CONTROL PANEL, L-821
- (3) RADIO CONTROLLER, L-854
- (4) RADIO CONTROLLER ANTENNA, MODEL AV-1
- (5) KENALL MODEL MS15FD-25L40K LED FIXTURE (4000K, 3258LM) OR EQUIVALENT.
- (6) EMERGENCY LIGHT W/LED LAMPS AND NI-CAD BATTERY RATED 90-MIN.
- (7) NOT USED
- (8) PHOTO ELECTRIC CONTROLLER

EQUIPMENT - ETR

- (1) 7.5 kW CONSTANT CURRENT REGULATOR
- (2) 25 kW CONSTANT CURRENT REGULATOR
- (3) TYPE II JUNCTION BOX
- (4) METER BASE
- (5) DRY TYPE TRANSFORMER
- (6) CT CABINET
- (7) CURRENT TRANSFORMER
- (8) PANEL BOARD 400A 30 SPACE
- (9) 2000-WATT, 240V WALL MOUNTED FAN-FORCED ELECT HEATER
- (10) 30"x24"x8" NEMA 1 BOX WITH HINGED COVER
- (11) PLUG CUTOUT.
- (12) MAIN DISCONNECT, 400A
- (13) CONTACTOR

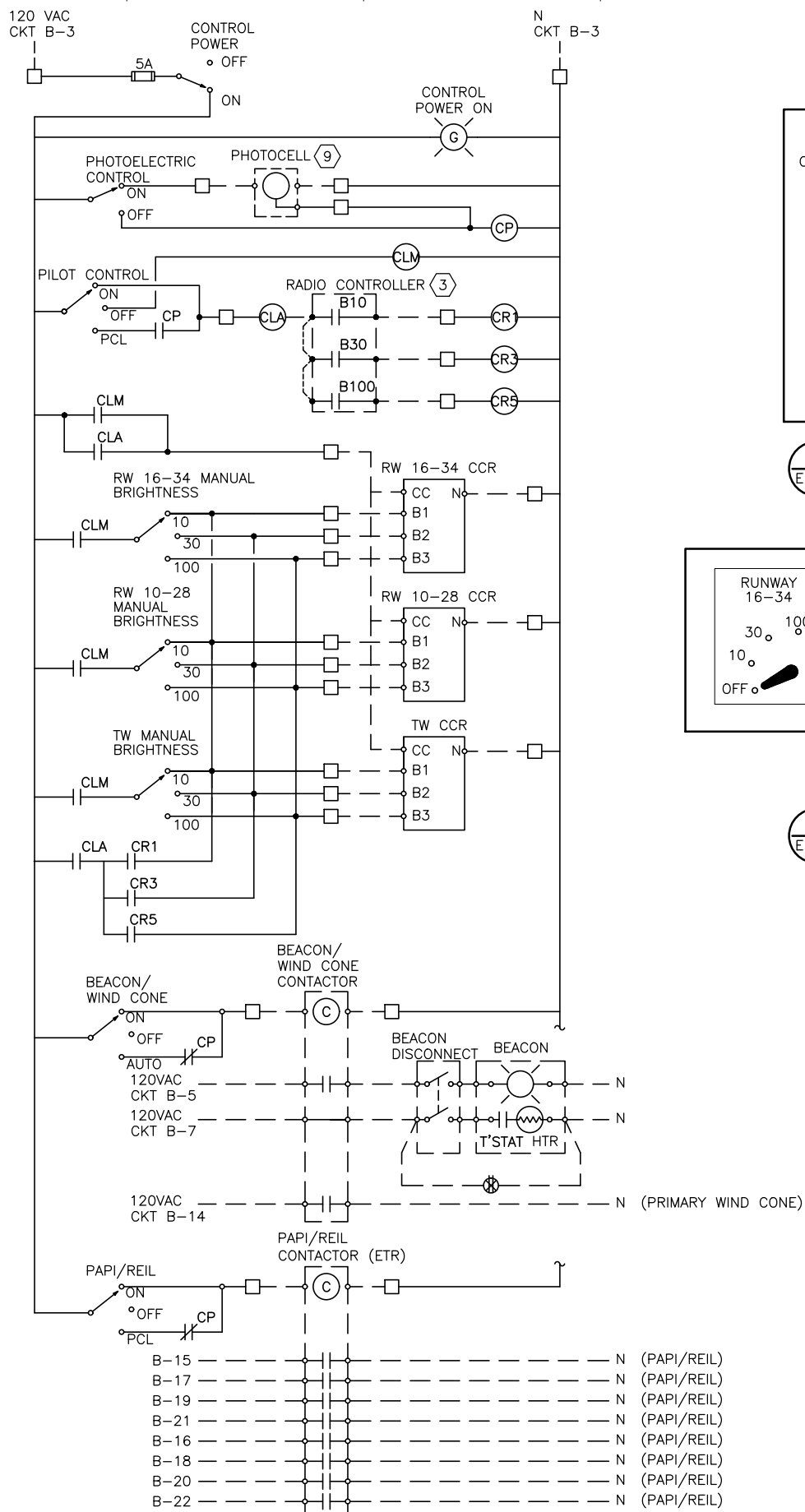
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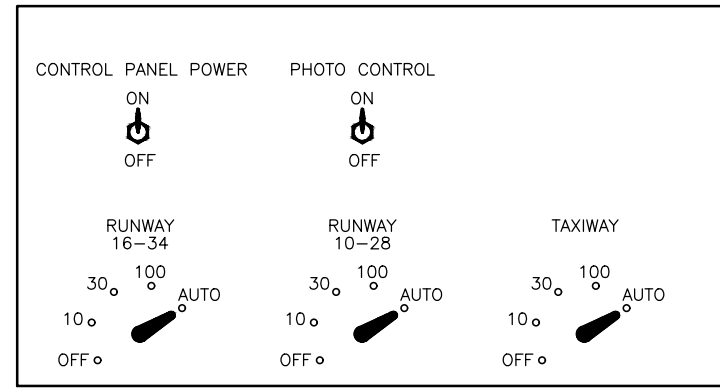
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CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
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PALMER, ALASKA

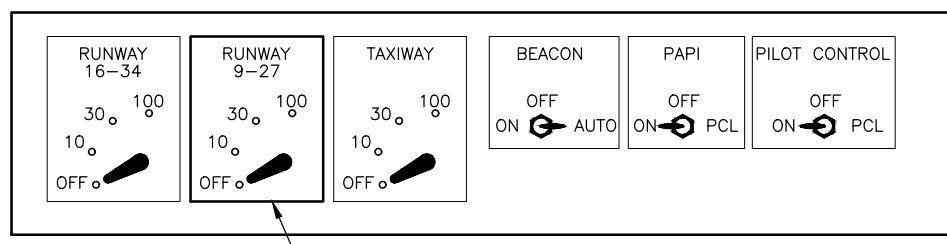
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EEB DETAILS	
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DRAWN BY:	CHECKED BY:
JBM	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	



1 AIRFIELD LIGHTING CONTROL LADDER DIAGRAM
E4.06 NTS



2 LIGHTING CONTROL PANEL ELEVATION - EEB
E4.06 NTS



PROVIDE NEW LABEL THAT READS "RUNWAY 10-28". MATCH EXISTING SIZE, STYLE, COLOR, AND TEXT. SUBSIDIARY TO L109.050.0000.

3 LIGHTING CONTROL PANEL ELEVATION - FSS (ETR)
E4.06 NTS

CONTROL SEQUENCE DESCRIPTION - FSS

PILOT CONTROL

- ON-RADIO CONTROL IS ENABLED.
- OFF-RADIO CONTROL IS DISABLED, LIGHTS ARE CONTROLLED BY THE FSS.
- AUTO-RADIO CONTROL IS ENABLED FROM DUSK TO DAWN.

RADIO CONTROL ENABLED
 3 CLICKS OF MIC TURNS ON RW/TW LIGHTS AT STEP 1.
 5 CLICKS OF MIC TURNS ON RW/TW LIGHTS AT STEP 2.
 7 CLICKS OF MIC TURNS ON RW/TW LIGHTS AT STEP 3.
 LIGHTS REMAIN ON FOR 15 MINUTES AFTER LAST CLICK.

ROTATING BEACON

- ON-BEACON ON.
- OFF-BEACON OFF.
- AUTO- PHOTOELECTRIC CONTROL IS ENABLED. BEACON IS ON FROM DUSK TO DAWN.
- BEACON OUTLET AND HEATER ARE ON WITH SWITCH IN ANY POSITION.

MANUAL BRIGHTNESS RUNWAY/TAXIWAY LIGHTS

- OFF-RUNWAY/TAXIWAY LIGHTS ARE OFF
- 10-RUNWAY/TAXIWAY LIGHTS ARE ON STEP 1.
- 30-RUNWAY/TAXIWAY LIGHTS ARE ON STEP 2.
- 100-RUNWAY/TAXIWAY LIGHTS ARE ON STEP 3.

PAPI/REIL

- ON-PAPI, REIL, AND WIND CONES ARE ON.
- OFF-PAPI, REIL, AND WIND CONES ARE OFF.
- PCL-PAPI, REIL, AND WIND CONES ARE ON FROM DUSK TO DAWN.

CONTROL DIAGRAM LEGEND

- TERMINAL BLOCK - 20A, 12 POINT, NO. AS REQUIRED
- - - FIELD WIRING
- (CX) RELAY COIL - 3PDT RELAY, PLUG-IN TYPE WITH BASE
- (TD) RELAY COIL - TIME DELAY RELAY, OFF DELAY, DPDT, SET AT 15 MINUTES
- || x NORMALLY OPEN CONTACT, "x" = COIL
- || x NORMALLY CLOSED CONTACT, "x" = COIL
- ⊙ SELECTOR SWITCH, PANEL MOUNT, NUMBER OF POSITIONS AS INDICATED
- XA FUSE HOLDER WITH SLO-BLO FUSE, "x" = FUSE RATED AMPS
- (G) PILOT LIGHT, PANEL MOUNT, LED, 120V, GREEN COLOR, 30mm
- (X) AIRFIELD LIGHTING EQUIPMENT "x", SEE SHEET 34
- ⊕ PUSH BUTTON STATION, OFF-ON MOMENTARY CONTACT, WATER-DUST TIGHT, NEMA 4X
- ⊕ WEATHERPROOF GFCI RECEPTACLE
- PCL PHOTOCELL CONTROL
- GE CR151B2 OR APPROVED EQUAL
- IDEC RR5PAU-AC120V OR APPROVED EQUAL
- MAGNACRAFT TDRSRXP-120V OR APPROVED EQUAL
- TWO POSITION: C-H 10250T20LB
THREE POSITION: C-H 10250T21LB OR APPROVED EQUAL
- C-H 10250T197LGP2A OR APPROVED EQUAL
- GE CR2943AJ301B OR APPROVED EQUAL

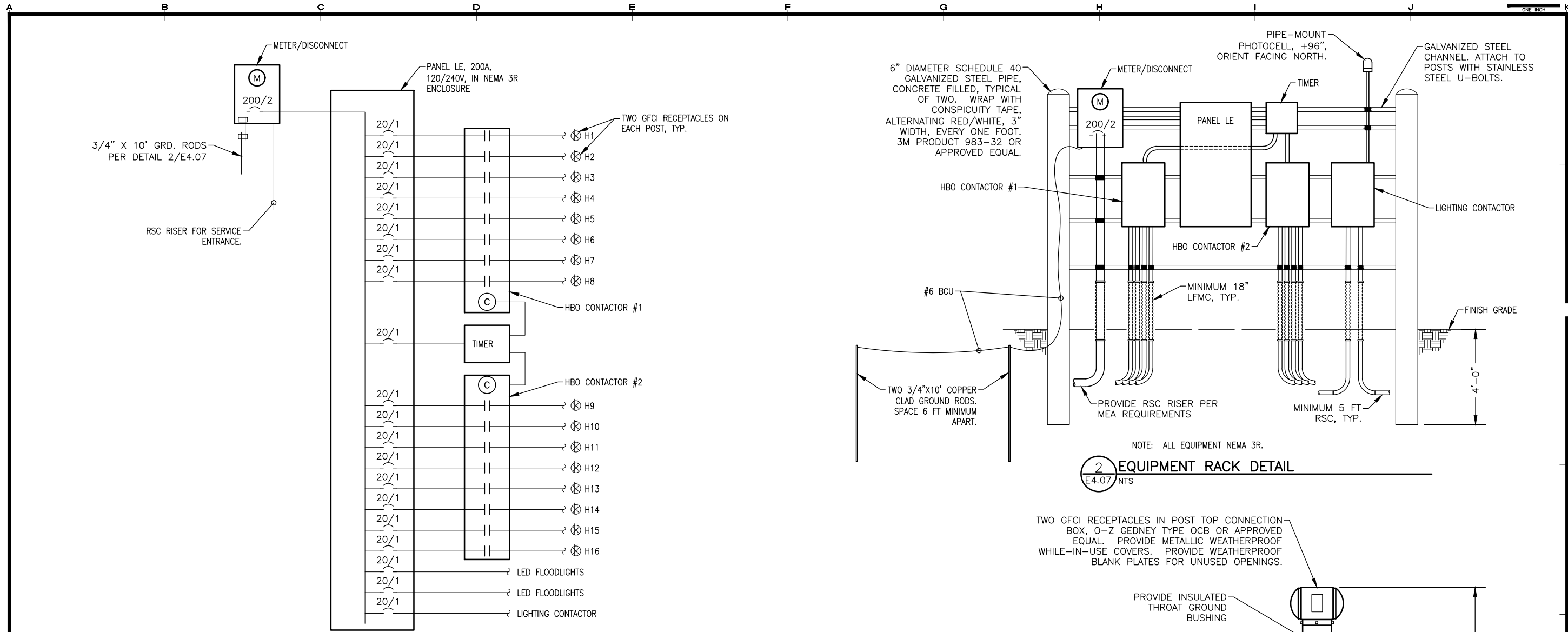
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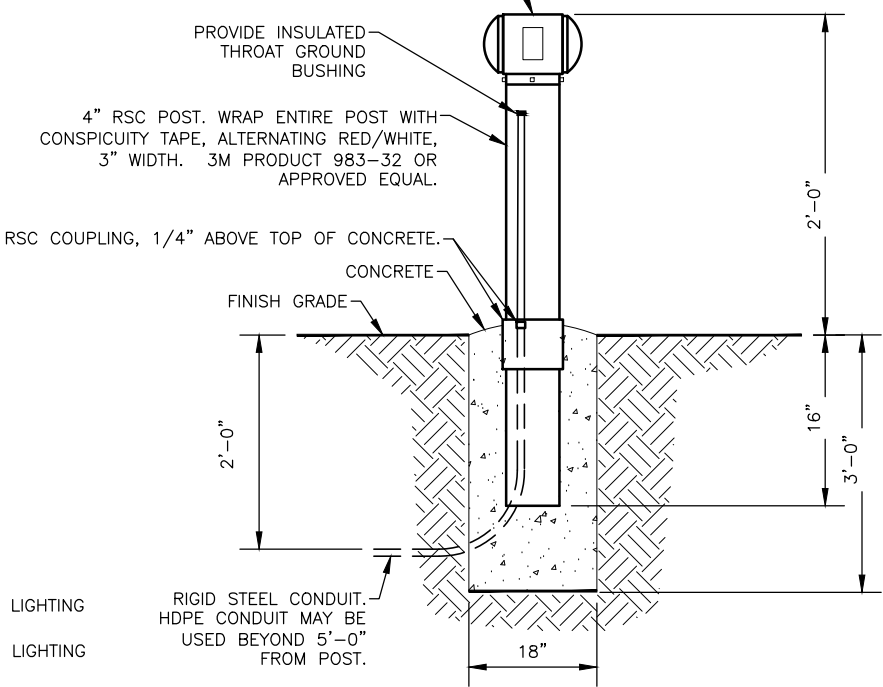
CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
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 PALMER, ALASKA

SHEET TITLE	
AIRFIELD LIGHTING CONTROLS	
SHEET	
E4.06	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	



2 EQUIPMENT RACK DETAIL
E4.07 NTS

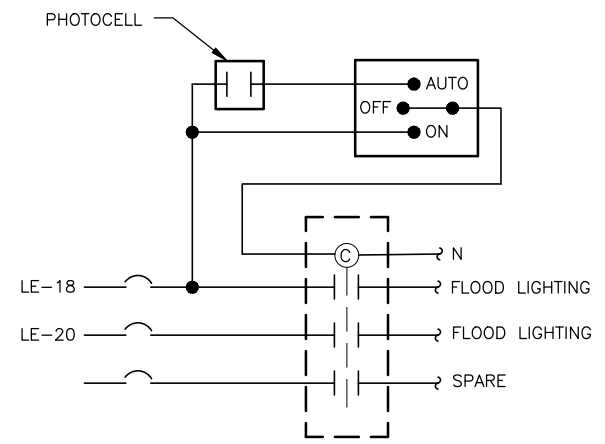
TWO GFCI RECEPTACLES IN POST TOP CONNECTION BOX, O-Z GEDNEY TYPE OCB OR APPROVED EQUAL. PROVIDE METALLIC WEATHERPROOF WHILE-IN-USE COVERS. PROVIDE WEATHERPROOF BLANK PLATES FOR UNUSED OPENINGS.



3 WEATHERPROOF OUTLET POST DETAIL
E4.07 NTS SCHEDULE E

PANEL: LE	MOUNTING		MAINS				OPTIONS		CIRCUIT DESCRIPTION
	SURFACE	LUGS	1 PHASE	3 WIRE	200 A	MLO	22k AIC	SOLID NEUTRAL	
PROJECT:									
LOCATION:									
VOLTAGE: 240/120 VOLT									
WEATHERPROOF OUTLET (HBO)	1.9	20	1	1	2	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	3	4	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	5	6	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	7	8	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	9	10	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	11	12	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	13	14	20	1	1.9	WEATHERPROOF OUTLET (HBO)
WEATHERPROOF OUTLET (HBO)	1.9	20	1	15	16	20	1	1.9	WEATHERPROOF OUTLET (HBO)
CONTACTOR CONTROL POWER	0.2	20	1	17	18	20	1	1.4	FLOODLIGHTING
FLASHING STOP SIGN	0.2	20	1	19	20	20	1	0.7	FLOODLIGHTING
SPARE		20	1	21	22	20	1		SPARE
CONNECTED LOAD:		32.9	KVA	137.1	A	REMARKS:			
DEMAND LOAD:		23.3	KVA	97.2	A				
DATE:									
REV:									

4 APRON FLOODLIGHTING CONTROLS
E4.07 NTS



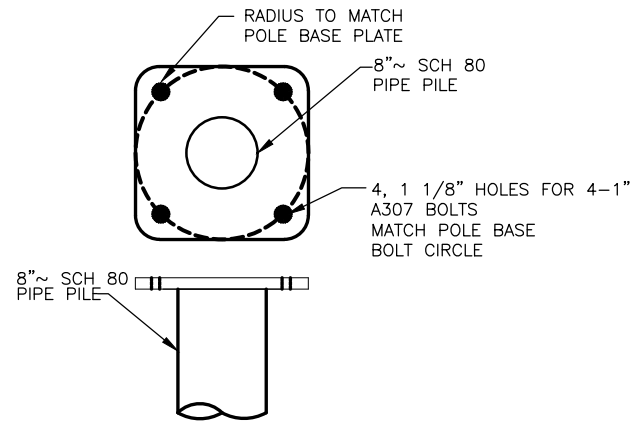
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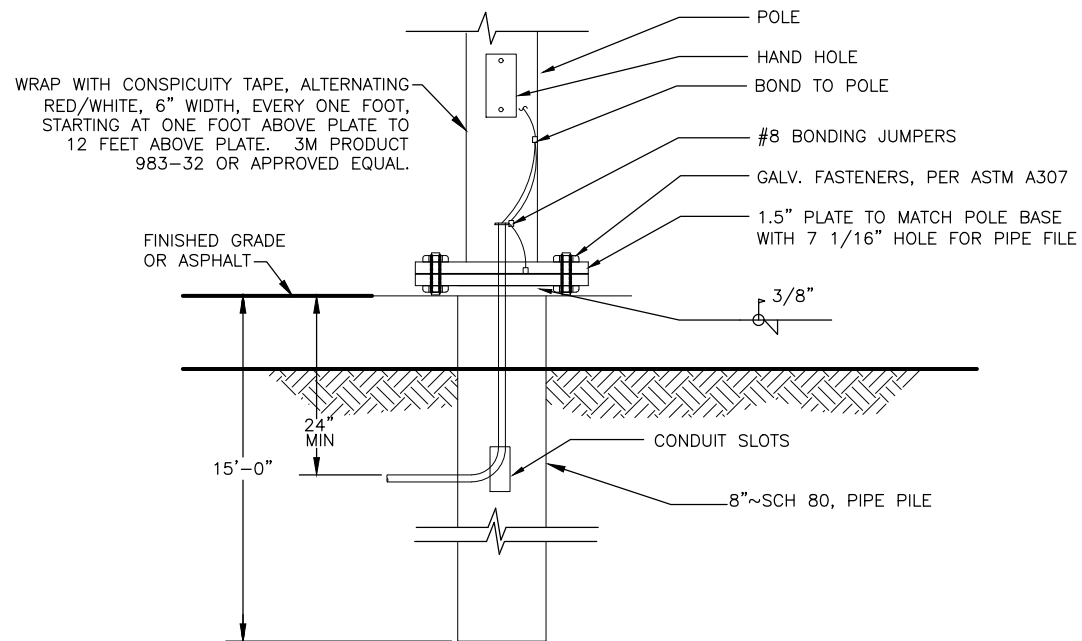
SHEET TITLE	
ONE-LINE DIAGRAM, CONTROL CENTER, LOAD CENTER, AND HBO POST DETAILS	
SHEET	
E4.07	
DRAWN BY: DH	CHECKED BY: EC
DATE: JULY, 2022	SCALE: AS SHOWN
JOB NUMBER: 18-001-15	



1 LUMINAIRE POLE BASE DETAIL
E4.08 NTS

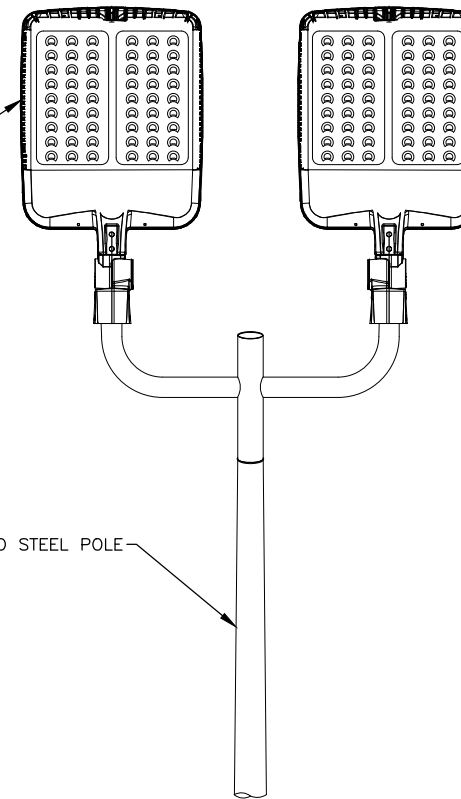
POLE BASE NOTES

1. ALL PILING SHALL BE STEEL, 8 INCH SCH 80.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36.
3. ANCHOR BOLTS SHALL BE STEEL ASTM A 307.
4. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY. (AWS) D1.1-86
5. ELECTRICAL CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & OBTAIN CLEARANCE FROM THE OWNER PRIOR TO BEGINNING PILE DRIVING OPERATION.
6. PILING SHALL BE DRIVEN TO A MINIMUM DEPTH OF 15' BELOW THE FINISHED GRADE INTO STRUCTURAL SOIL.
7. PILING SHALL BE DRIVEN TO A VERTICAL TOLERANCE OF 1/4 INCH PER 10'-0" OF VERTICAL AND TO A HORIZONTAL TOLERANCE OF 1 INCH.
8. SPLICES IN PILING PIPE SHALL BE MADE USING A QUALIFIED WELDING PROCEDURE IN ACCORDANCE WITH ASTM B31.1 USING P3 PROCEDURE. (7018 ROOT 7018 INTER & CAP)
9. CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
10. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.



2 LUMINAIRE POLE BASE ELEVATION DETAIL
E4.08 NTS

TYPE "A/310" LIGHTING FIXTURE. SEE LUMINAIRE SCHEDULE AND PLANS FOR NUMBER OF FIXTURES.



ROUND TAPERED GALVANIZED STEEL POLE

3 LUMINAIRE DETAIL
E4.08 NTS

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	TOTAL LUMEN	LUMEN/WATT	MOUNTING	DESCRIPTION	MODEL
A/310		41,300	229	POLE	LED AREA/FLOOD, SLIM LOW PROFILE, ALUMINUM HOUSING INTEGRAL HEAT SINK.	CREE LIGHTING: OSQX B 40L 40K7 44 UL NM SV Q5
POLE					25" ROUND TAPERED POLE, GALVANIZED, FULL BASE COVER. PROVIDE BULLHORN BRACKET 2 @ 180 ORIENTATION, 2'-6" SPACING.	VALMONT POLE: DS210-700E250-P5-GV-GV-FBC-LAB VALMONT BULLHORN: MD103-026-010-GV-GV

REVISIONS	MARK	DATE	DESCRIPTION
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(907) 274-2822 | CERT. OF AUTH. #AECC578

CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE, AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE	
APRON LIGHTING DETAILS	
SHEET	
E4.08	
DRAWN BY:	CHECKED BY:
DH	EC
DATE:	SCALE:
JULY, 2022	AS SHOWN
JOB NUMBER:	
18-001-15	

PALMER AIRPORT TAXIWAY EDGE LIGHT SCHEDULE								
LIGHT #	COLOR	TYPE	LAMP	XFMR	ALIGNMENT	STATION	OFFSET	NOTES
T 1	BLUE	L861T	30W	30/45W	TW J	170+02.70	135.22'L	1
T 2	BLUE	L861T	30W	30/45W	TW J	170+02.79	110.23'L	1
T 3	BLUE	L861T	30W	30/45W	TW J	170+02.96	60.23'L	1
T 4	BLUE	L861T	30W	30/45W	TW J	170+03.17	00.23'L	1
T 5	BLUE	L861T	30W	30/45W	TW J	170+03.38	59.77'R	1
T 6	BLUE	L861T	30W	30/45W	TW J	170+03.55	109.77'R	1
T 7	BLUE	L861T	30W	30/45W	TW J	170+03.64	135.45'R	1
T 8	BLUE	L861T	LED	10/15	TW J	169+34.26	135.45'R	
T 9	BLUE	L861T	LED	10/15	TW J	169+23.08	95.63'R	
T 10	BLUE	L861T	LED	10/15	TW J	169+11.84	55.81'R	
T 11	BLUE	L861T	LED	10/15	TW J	168+73.33	45.36'R	
T 12	BLUE	L861T	LED	10/15	TW J	168+34.61	34.92'R	
T 13	BLUE	L861T	LED	10/15	TW J	167+84.61	32.95'R	
T 14	BLUE	L861T	LED	10/15	TW J	166+73.88	28.59'R	
T 15	BLUE	L861T	LED	10/15	TW J	165+36.15	27.00'R	
T 16	BLUE	L861T	LED	10/15	TW J	163+52.38	27.00'R	
T 17	BLUE	L861T	LED	10/15	TW J	162+56.04	27.00'R	
T 18	BLUE	L861T	LED	10/15	TW J	161+59.71	27.00'R	
T 19	BLUE	L861T	LED	10/15	TW J	160+63.38	27.00'R	
T 20	BLUE	L861T	LED	10/15	TW J	159+67.05	27.00'R	
T 21	BLUE	L861T	LED	10/15	TW J	158+70.72	27.00'R	
T 22	BLUE	L861T	LED	10/15	TW J	157+74.39	27.00'R	
T 23	BLUE	L861T	LED	10/15	TW J	156+78.05	27.00'R	
T 24	BLUE	L861T	LED	10/15	TW J	155+81.72	27.00'R	
T 25	BLUE	L861T	LED	10/15	TW J	154+85.39	27.00'R	
T 26	BLUE	L861T	LED	10/15	TW J	153+89.06	30.06'R	
T 27	BLUE	L861T	LED	10/15	TW J	153+02.53	33.43'R	
T 28	BLUE	L861T	LED	10/15	TW J	152+63.47	42.24'R	
T 29	BLUE	L861T	LED	10/15	TW J	151+96.52	46.32'R	
T 30	BLUE	L861T	LED	10/15	TW J	151+42.23	45.09'R	
T 31	BLUE	L861T	LED	10/15	TW J	151+15.86	39.14'R	
T 32	BLUE	L861T	LED	10/15	TW J	150+94.06	45.11'R	
T 33	BLUE	L861T	LED	10/15	TW J	150+72.26	51.07'R	
T 34	BLUE	L861T	LED	10/15	TW J	150+52.46	57.03'R	
T 35	BLUE	L861T	LED	10/15	TW J	150+50.46	57.03'R	
T 36	BLUE	L861T	LED	10/15	TW J	150+57.50	27.00'L	
T 37	BLUE	L861T	LED	10/15	TW J	151+05.18	27.01'L	
T 38	BLUE	L861T	LED	10/15	TW J	151+52.85	27.00'L	
T 39	BLUE	L861T	LED	10/15	TW J	151+81.84	27.00'L	
T 40	BLUE	L861T	LED	10/15	TW J	152+11.08	27.00'L	
T 41	BLUE	L861T	LED	10/15	TW J	152+40.19	27.00'L	
T 42	BLUE	L861T	LED	10/15	TW J	152+90.19	27.00'L	
T 43	BLUE	L861T	LED	10/15	TW J	153+04.34	27.00'L	
T 44	BLUE	L861T	LED	10/15	TW J	153+89.06	27.00'L	
T 45	BLUE	L861T	LED	10/15	TW J	163+52.38	27.00'L	
T 46	BLUE	L861T	LED	10/15	TW J	165+12.99	27.00'L	
T 47	BLUE	L861T	LED	10/15	TW J	166+73.71	27.55'L	
T 48	BLUE	L861T	LED	10/15	TW J	167+84.41	32.00'L	
T 49	BLUE	L861T	LED	10/15	TW J	168+34.41	34.02'L	
T 50	BLUE	L861T	LED	10/15	TW J	168+73.04	44.72'L	

PALMER AIRPORT TAXIWAY EDGE LIGHT SCHEDULE CONTINUED								
LIGHT #	COLOR	TYPE	LAMP	XFMR	ALIGNMENT	STATION	OFFSET	NOTES
T 51	BLUE	L861T	LED	10/15	TW J	169+11.67	55.43'L	
T 52	BLUE	L861T	LED	10/15	TW J	169+22.44	95.36'L	
T 53	BLUE	L861T	LED	10/15	TW J	169+33.19	135.22'L	
T 54	BLUE	L861T	30W	30/45W	TW N	121+47.35	545.11'L	1
T 55	BLUE	L861T	30W	30/45W	TW N	121+59.80	516.76'L	1
T 56	BLUE	L861T	30W	30/45W	TW N	121+67.97	498.14'L	1
T 57	BLUE	L861T	30W	30/45W	TW N	123+94.76	167.36'L	1
T 58	BLUE	L861T	30W	30/45W	TW N	124+12.69	120.68'L	1
T 59	BLUE	L861T	30W	30/45W	TW N	124+42.83	42.15'L	1
T 60	BLUE	L861T	30W	30/45W	TW N	124+74.27	30.92'R	1
T 61	BLUE	L861T	30W	30/45W	TW N	124+94.19	76.78'R	1
T 62	BLUE	L861T	30W	30/45W	TW N	124+99.79	89.68'R	1
T 63	BLUE	L861T	LED	10/15	TW N	124+58.90	181.05'R	
T 64	BLUE	L861T	LED	10/15	TW N	124+29.59	120.10'R	
T 65	BLUE	L861T	LED	10/15	TW N	124+06.84	88.87'R	
T 66	BLUE	L861T	LED	10/15	TW N	123+84.08	57.65'R	
T 67	BLUE	L861T	LED	10/15	TW N	123+46.37	49.22'R	
T 68	BLUE	L861T	LED	10/15	TW N	123+08.67	40.78'R	
T 69	BLUE	L861T	LED	10/15	TW N	122+32.41	37.85'R	
T 70	BLUE	L861T	LED	10/15	TW N	121+82.41	35.93'R	
T 71	BLUE	L861T	LED	10/15	TW N	120+50.35	34.50'R	
T 72	BLUE	L861T	LED	10/15	TW N	118+68.29	34.50'R	
T 73	BLUE	L861T	LED	10/15	TW N	116+86.23	34.50'R	
T 74	BLUE	L861T	LED	10/15	TW N	115+04.17	34.50'R	
T 75	BLUE	L861T	LED	10/15	TW N	113+22.11	34.50'R	
T 76	BLUE	L861T	LED	10/15	TW N	111+40.05	34.50'R	
T 77	BLUE	L861T	LED	10/15	TW N	109+57.09	34.50'R	
T 78	BLUE	L861T	LED	10/15	TW N	107+75.93	34.50'R	
T 79	BLUE	L861T	LED	10/15	TW N	105+93.87	34.50'R	
T 80	BLUE	L861T	LED	10/15	TW N	104+11.81	34.50'R	
T 81	BLUE	L861T	LED	10/15	TW N	103+84.25	35.00'R	
T 82	BLUE	L861T	LED	10/15	TW N	103+34.25	34.50'R	
T 83	BLUE	L861T	LED	10/15	TW N	103+10.69	34.50'R	
T 84	BLUE	L861T	LED	10/15	TW N	102+87.12	34.50'R	
T 85	BLUE	L861T	LED	10/15	TW N	102+63.56	34.50'R	
T 86	BLUE	L861T	LED	10/15	TW N	102+40.00	34.50'R	
T 87	BLUE	L861T	LED	10/15	TW N	101+90.00	34.50'R	
T 88	BLUE	L861T	LED	10/15	TW N	101+62.44	34.50'R	
T 89	BLUE	L861T	LED	10/15	TW N	101+37.59	34.50'R	
T 90	BLUE	L861T	LED	10/15	TW N	101+07.50	34.50'R	
T 91	BLUE	L861T	LED	10/15	TW N	100+57.50	34.50'R	
T 92	BLUE	L861T	LED	10/15	TW N	100+52.50	102.55'L	
T 93	BLUE	L861T	LED	10/15	TW N	100+50.50	102.55'L	
T 94	BLUE	L861T	LED	10/15	TW N	100+55.83	81.85'L	
T 95	BLUE	L861T	LED	10/15	TW N	100+61.16	61.16'L	
T 96	BLUE	L861T	LED	10/15	TW N	100+99.36	51.32'L	
T 97	BLUE	L861T	LED	10/15	TW N	101+37.59	41.49'L	
T 98	BLUE	L861T	LED	10/15	TW N	101+50.00	40.97'L	
T 99	BLUE	L861T	LED	10/15	TW N	101+62.44	41.49'L	
T 100	BLUE	L861T	LED	10/15	TW N	102+00.64	51.32'L	

PALMER AIRPORT TAXIWAY EDGE LIGHT SCHEDULE CONTINUED								
LIGHT #	COLOR	TYPE	LAMP	XFMR	ALIGNMENT	STATION	OFFSET	NOTES
T 101	BLUE	L861T	LED	10/15	TW N	102+38.84	61.16'L	
T 102	BLUE	L861T	LED	10/15	TW N	103+73.60	51.32'L	
T 103	BLUE	L861T	LED	10/15	TW N	104+11.81	41.49'L	
T 104	BLUE	L861T	LED	10/15	TW N	105+93.87	34.50'L	
T 105	BLUE	L861T	LED	10/15	TW N	107+75.93	34.50'L	
T 106	BLUE	L861T	LED	10/15	TW N	109+57.09	34.50'L	
T 107	BLUE	L861T	LED	10/15	TW N	111+40.05	34.50'L	
T 108	BLUE	L861T	LED	10/15	TW N	113+22.11	34.50'L	
T 109	BLUE	L861T	LED	10/15	TW N	115+04.17	34.50'L	
T 110	BLUE	L861T	LED	10/15	TW N	116+86.23	34.50'L	
T 111	BLUE	L861T	LED	10/15	TW N	118+68.29	34.50'L	
T 112	BLUE	L861T	LED	10/15	TW N	120+50.35	34.50'L	
T 113	BLUE	L861T	LED	10/15	TW N	121+82.41	39.09'L	
T 114	BLUE	L861T	LED	10/15	TW N	122+32.41	41.06'L	
T 115	BLUE	L861T	LED	10/15	TW N	122+71.86	50.43'L	
T 116	BLUE	L861T	LED	10/15	TW N	123+11.31	59.80'L	
T 117	BLUE	L861T	LED	10/15	TW N	123+20.69	66.38'L	
T 118	BLUE	L861T	LED	10/15	TW N	123+22.99	77.60'L	
T 119	BLUE	L861T	LED	10/15	TW N	123+15.87	117.52'L	
T 120	BLUE	L861T	LED	10/15	TW N	122+08.74	157.44'L	
T 121	BLUE	L861T	LED	10/15	TW N	122+93.26	197.33'L	

LIGHT SCHEDULE NOTES:
1. PROVIDE 30W QUARTZ FIXTURE.

REVISIONS	MARK	DATE	DESCRIPTION
1			
2			
3			
4			
5			



MBA
Consulting Engineers, Inc.
(907) 274-2822 | CERT. OF AUTH. #AEC0578

CONSTRUCT TAXIWAY N, IMPROVE AIRPORT DRAINAGE,
AND CONSTRUCT APRON E
WARREN "BUD" WOODS PALMER MUNICIPAL AIRPORT
PALMER, ALASKA

SHEET TITLE		EDGE LIGHT SCHEDULES	
SHEET			
E4.09			
DRAWN BY:	DH	CHECKED BY:	EC
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