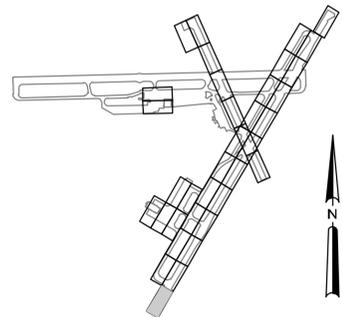


A SITE PLAN (1 OF 19)
1" = 25'



B KEY PLAN
NTS

CS101

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER

SUBMITTED BY *[Signature]*
PROJECT MANAGER

NASA SAFETY *[Signature]*
FIRE PROTECTION *[Signature]*

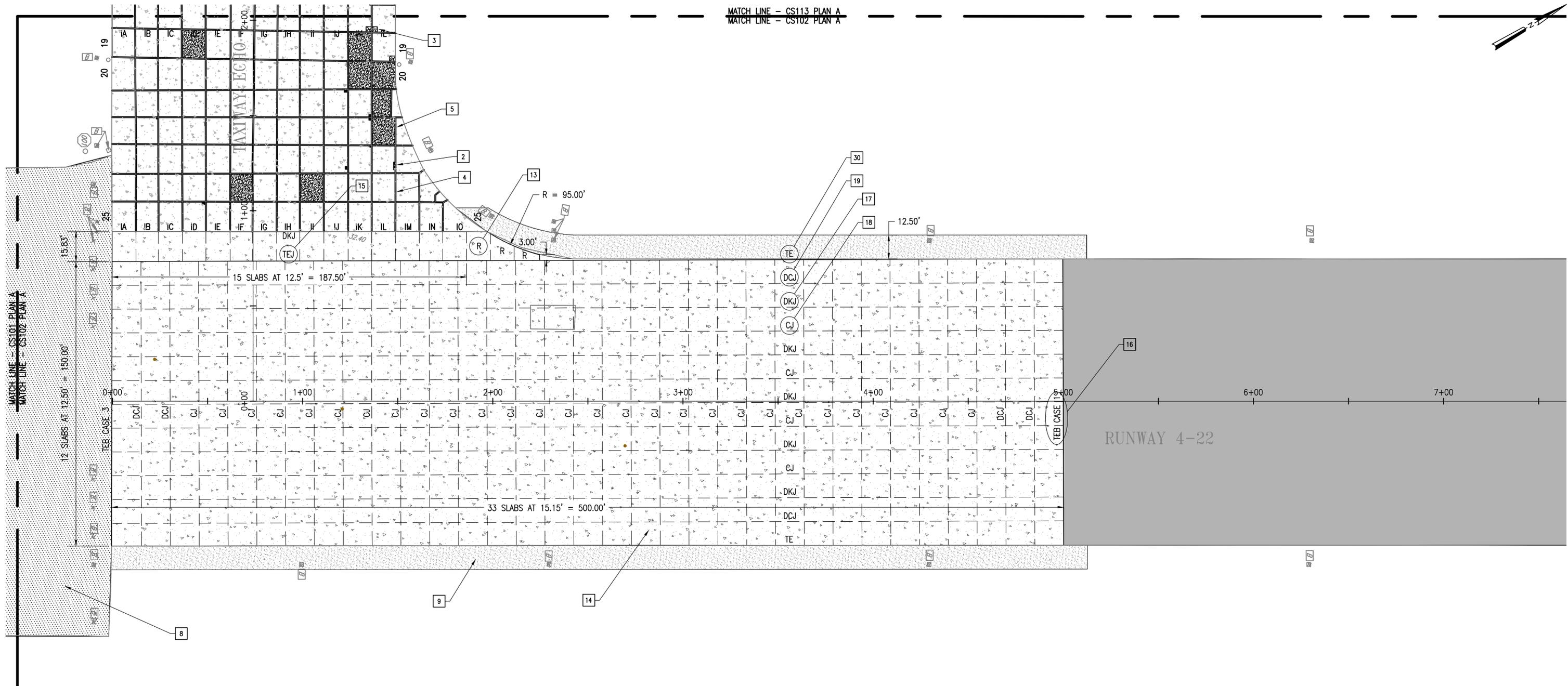
CONSTRUCTION MANAGEMENT *[Signature]*
O & M *[Signature]*

ENGINEERING APPROVAL *[Signature]*
ENGINEERING GROUP LEADER
BRANCH APPROVAL *[Signature]*
BRANCH HEAD

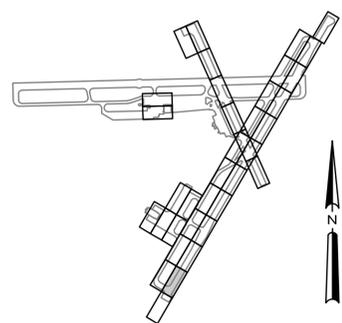
GRAPHIC SCALE
1" = 25' 0' 25' 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 118 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT DATE:
CK. LMH REVISID:
DRAWING NO.
17305

MATCH LINE - CS113 PLAN A
 MATCH LINE - CS102 PLAN A



A SITE PLAN (2 OF 19)
 1" = 25'

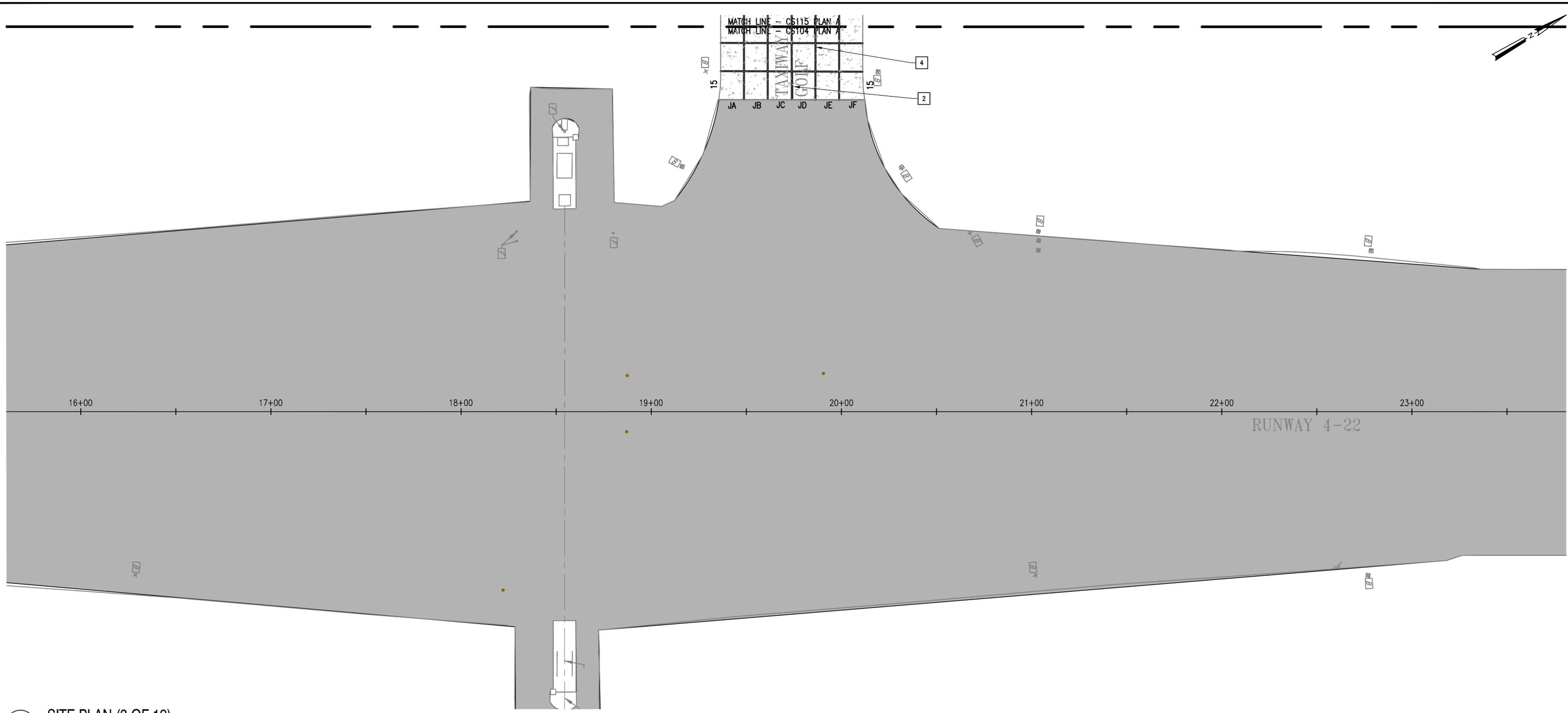


B KEY PLAN
 NTS

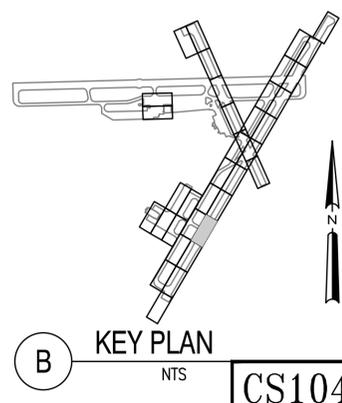
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 GODDARD SPACE FLIGHT CENTER
 WALLOPS FLIGHT FACILITY
 WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I SITE PLAN
					<i>Julius C. Roberts</i>	<i>Julius C. Roberts</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	1" = 25' 0' 25' 50'	PROJECT NUMBER: 1368232
					SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. Roberts</i>	O & M <i>[Signature]</i>	ENGINEERING GROUP LEADER <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1337236-CS1	DR. MVT
					PROJECT MANAGER			BRANCH APPROVAL <i>[Signature]</i>	SCALE 1" = 25'	DATE:
								BRANCH HEAD <i>[Signature]</i>	SHEET 119 OF 171	CK. LMH
										REVISOR:
										DRAWING NO. 17306



A SITE PLAN (3 OF 19)
1" = 25'



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WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25' 0' 25' 50'

AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1

SCALE
1" = 25'

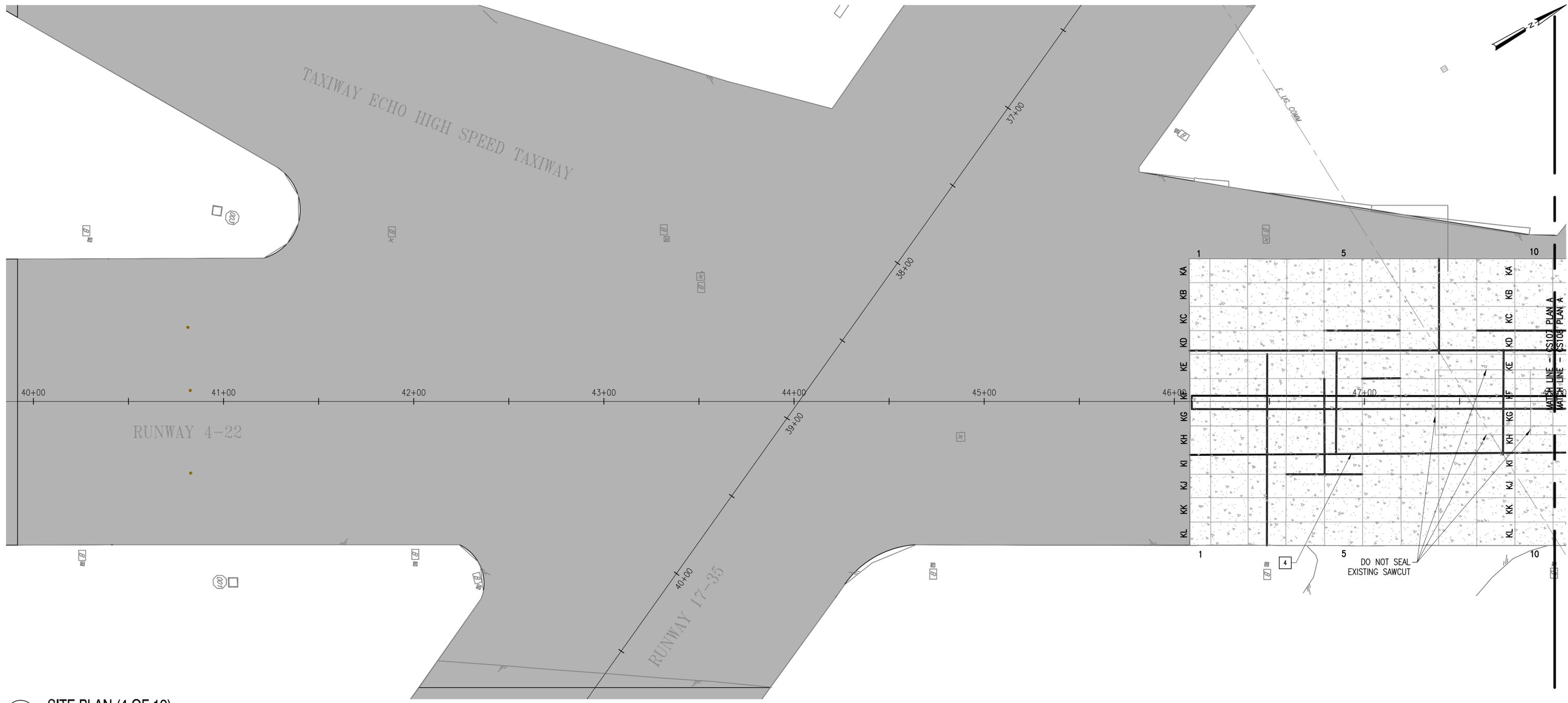
SHEET 120 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN

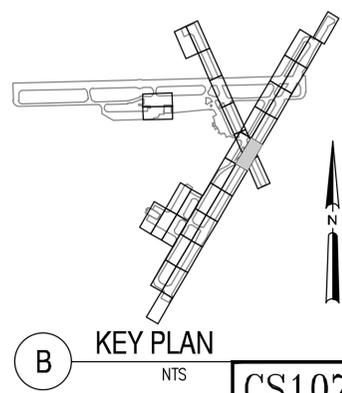
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH

DATE:
REVISED:

DRAWING NO.
17307



A SITE PLAN (4 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

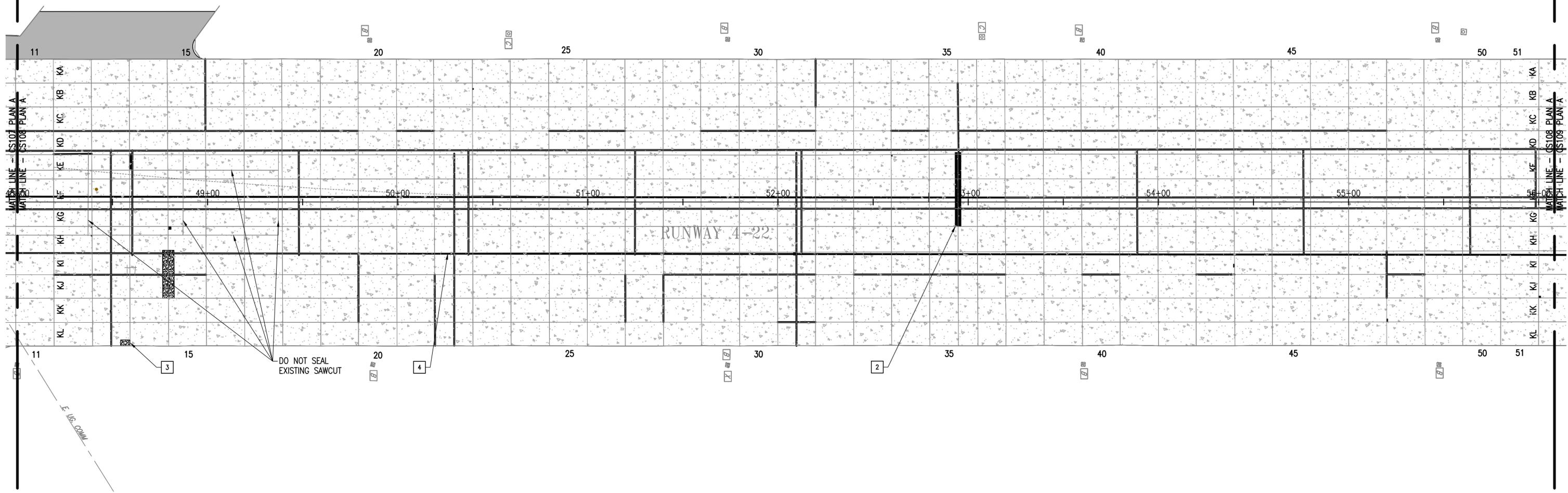
CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

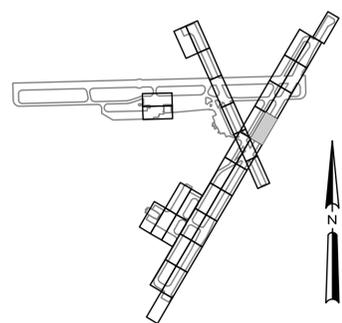
GRAPHIC SCALE
1" = 25'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 121 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DR. STH
CK. LMH
DATE:
REVISED:
DRAWING NO.
17308

CS107



A SITE PLAN (5 OF 19)
1" = 25'



B KEY PLAN
NTS CS108

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

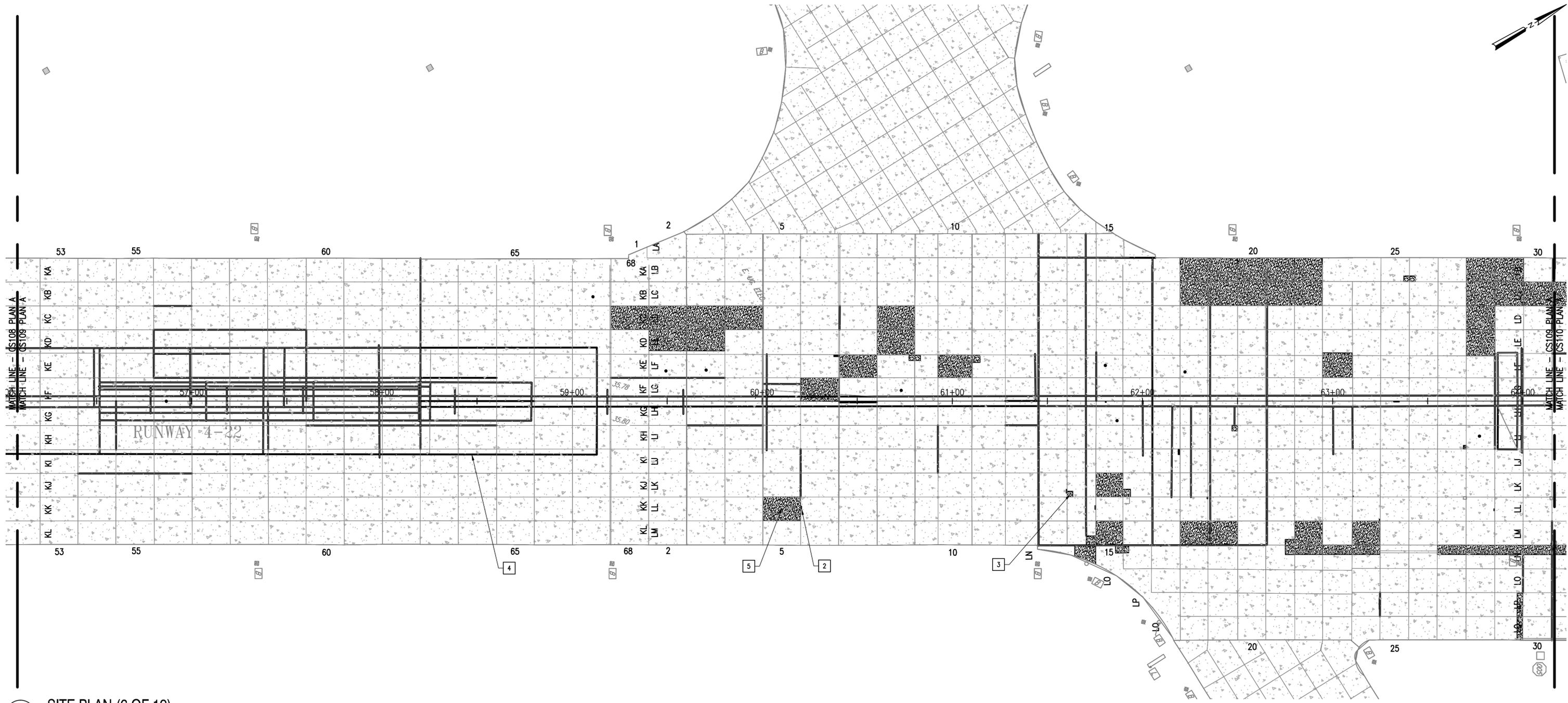
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

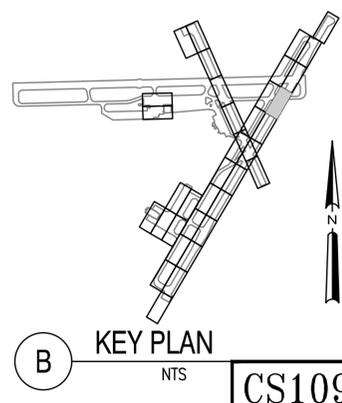
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DRAWING NO. 17309



A SITE PLAN (6 OF 19)
1" = 25'



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WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25'
0' 25' 50'

AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1

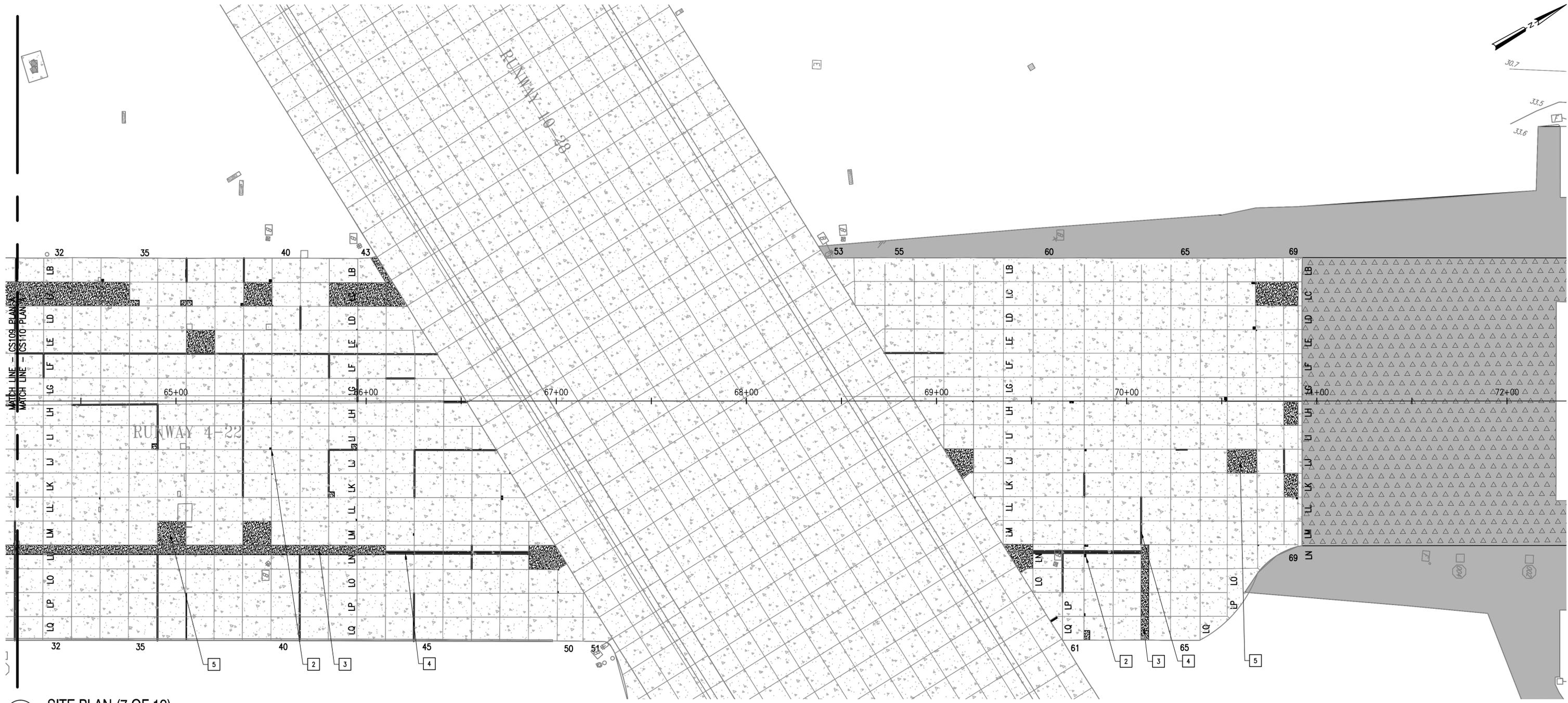
SCALE
1" = 25'
SHEET 123 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN

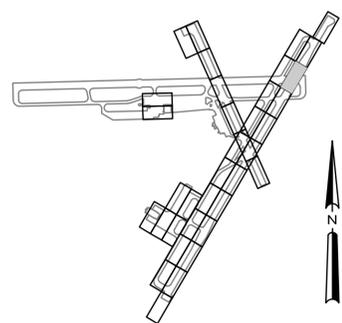
PROJECT NUMBER: 1368232
DR. STH
CK. LMH

DATE:
REVISED:

DRAWING NO.
17310

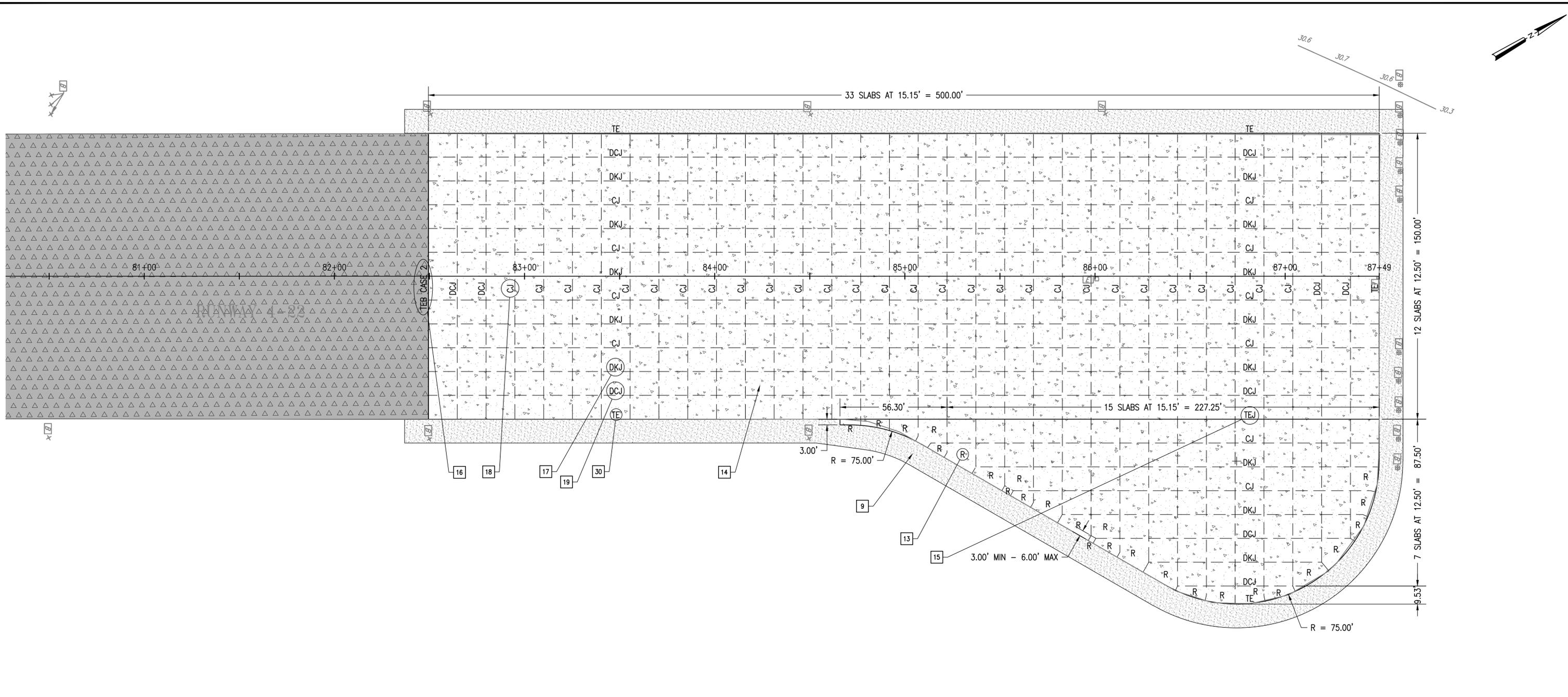


A SITE PLAN (7 OF 19)
1" = 25'

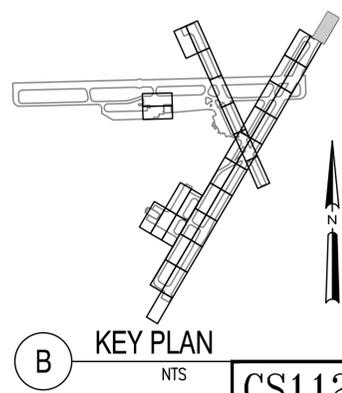


B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I SITE PLAN	
						SUBMITTED BY	FIRE PROTECTION	O & M	ENGINEERING GROUP LEADER	1"=25' 0' 25' 50'	PROJECT NUMBER: 1368232	DRAWING NO.
						PROJECT MANAGER			BRANCH APPROVAL	AUTOCAD - RELEASE 2010 FILE NAME: ...1337236-CS1	DR. STH	17311
									BRANCH HEAD	SCALE 1" = 25'	DATE:	REVISD:
										SHEET 124 OF 171	CK. LMH	



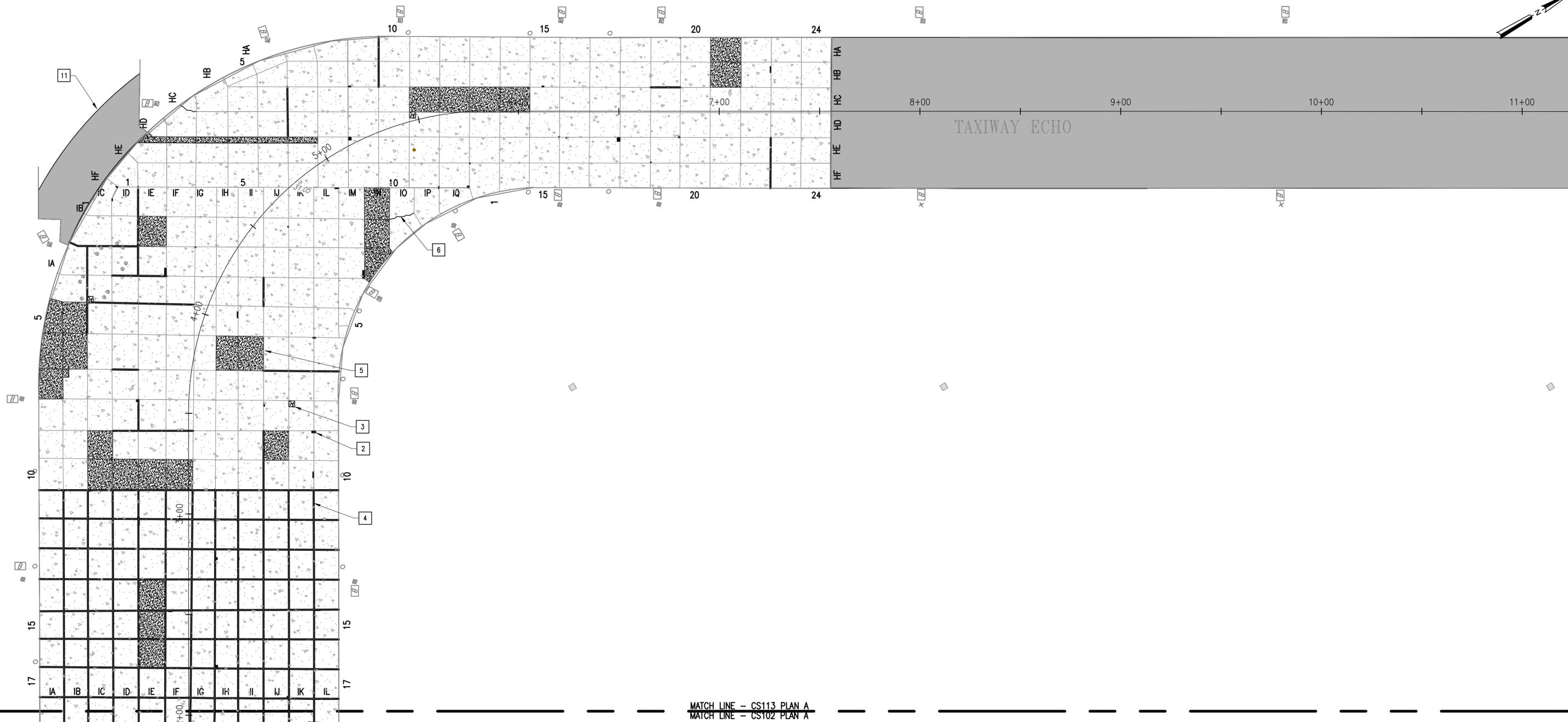
A SITE PLAN (8 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337

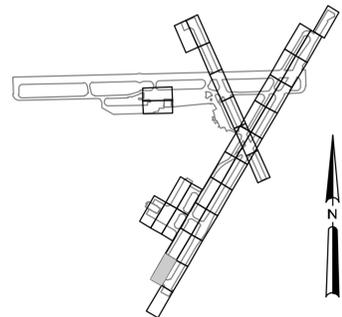


DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I SITE PLAN
						<i>Julius C. Roberts</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	1" = 25' 0' 25' 50'	PROJECT NUMBER: 1368232
					SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. Roberts</i>	O & M <i>[Signature]</i>	ENGINEERING GROUP LEADER <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1337236-CS1	DR. STH
					PROJECT MANAGER			BRANCH APPROVAL <i>[Signature]</i>	SCALE 1" = 25'	PROJECT NUMBER: 1368232
								BRANCH HEAD <i>[Signature]</i>	SHEET 125 OF 171	DATE:
										CK. LMH
										REVISID:
										DRAWING NO. 17312



A SITE PLAN (9 OF 19)
1" = 25'

MATCH LINE - CS113 PLAN A
MATCH LINE - CS102 PLAN A



B KEY PLAN
NTS

CS113

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25'
0' 25' 50'

AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1

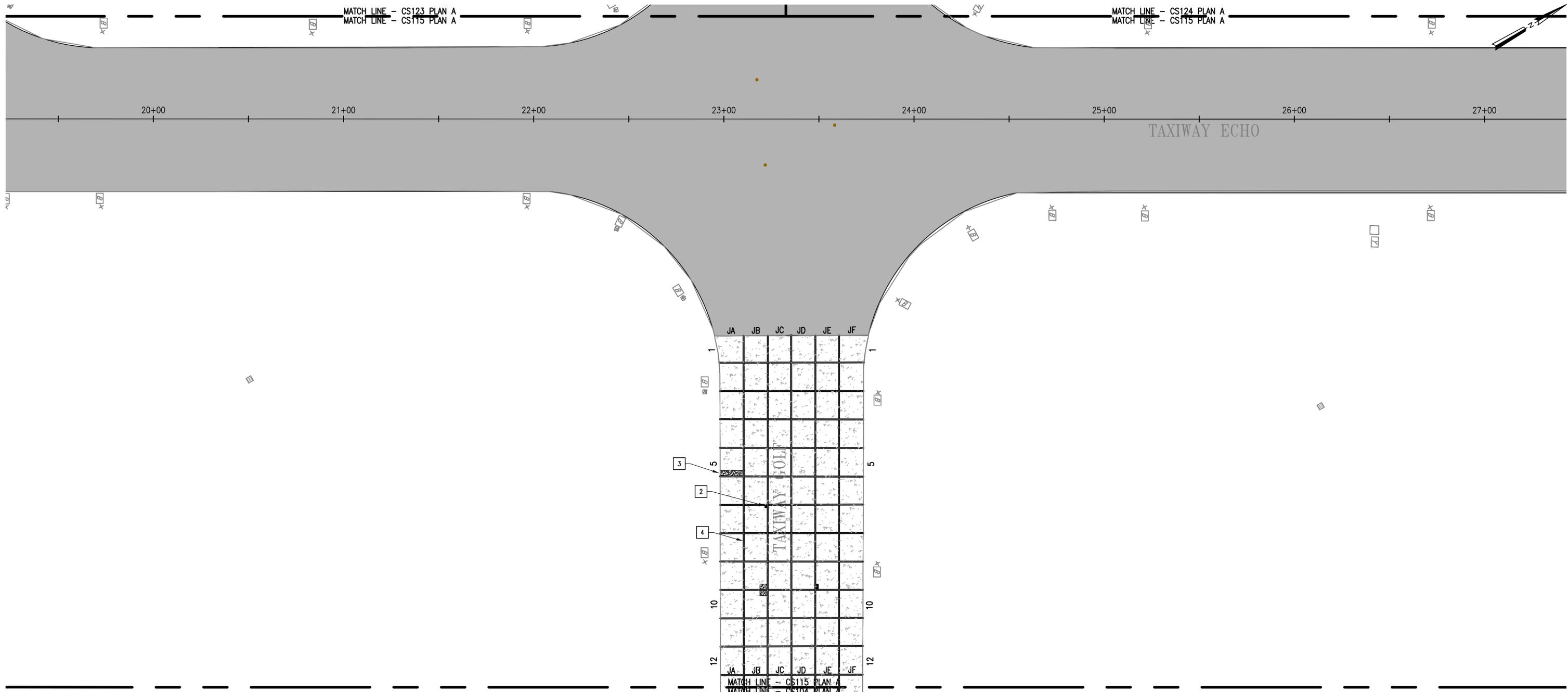
SCALE
1" = 25'
SHEET 126 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN

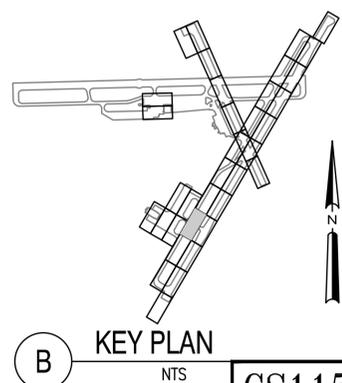
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH

DATE:
REVISED:

DRAWING NO.
17313



A SITE PLAN (10 OF 19)
1" = 25'



B KEY PLAN
NTS CS115

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

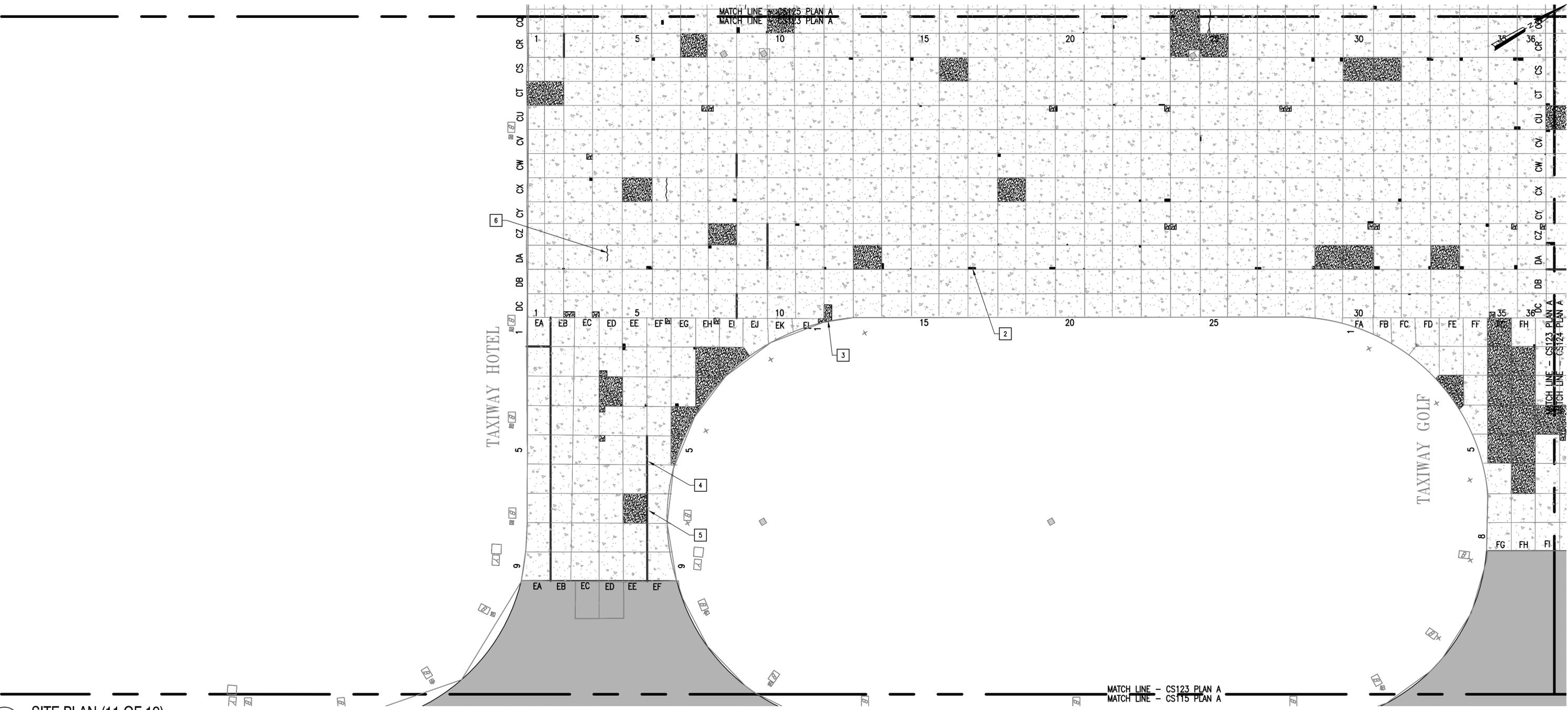
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

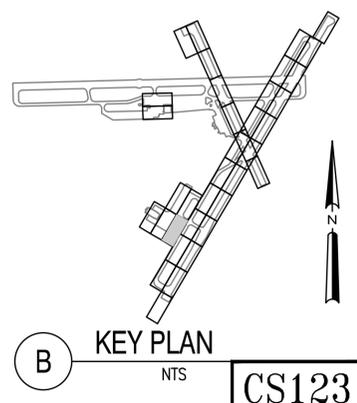
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DRAWING NO. 17314



A SITE PLAN (11 OF 19)
1" = 25'



B KEY PLAN
NTS CS123

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

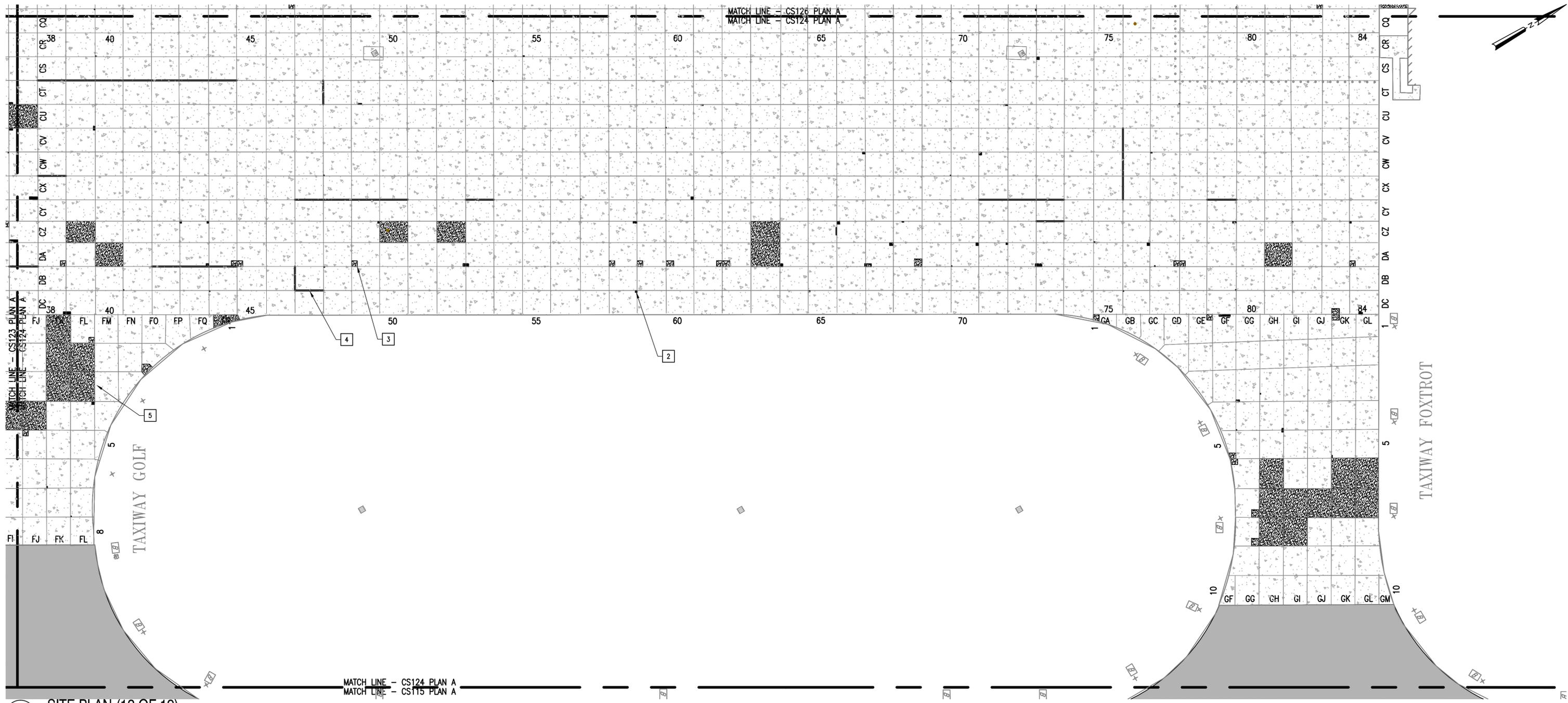
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

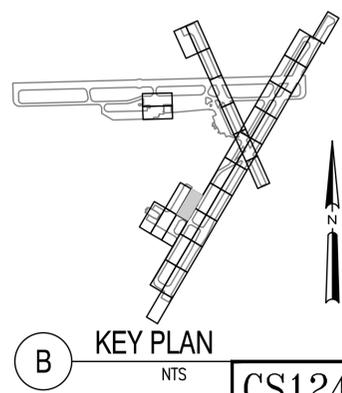
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 128 OF 171

Wallops Airfield Repair Project
CoF Phase I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH
DATE:
REVISED:
DRAWING NO.
17315



A SITE PLAN (12 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

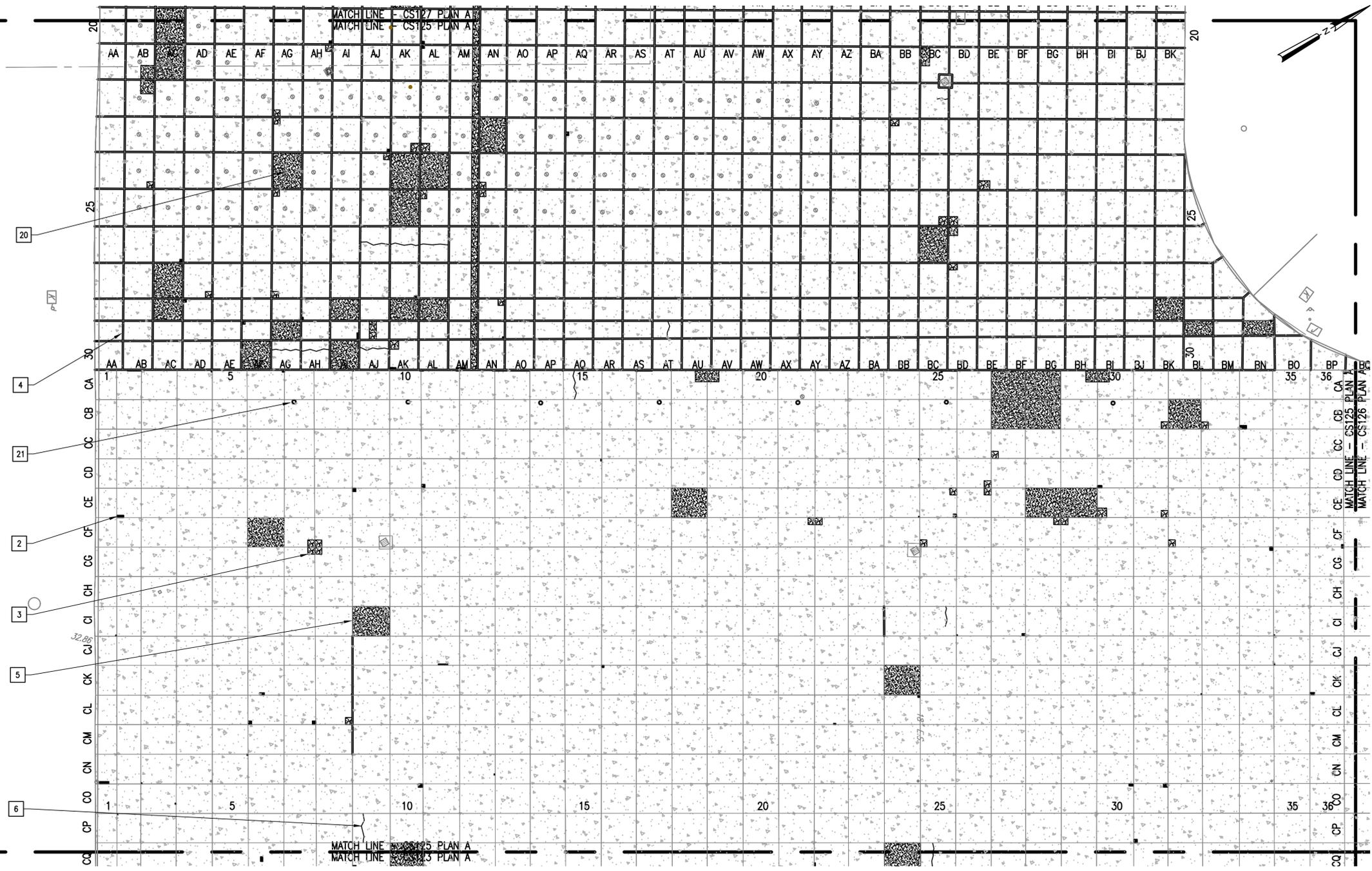
CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

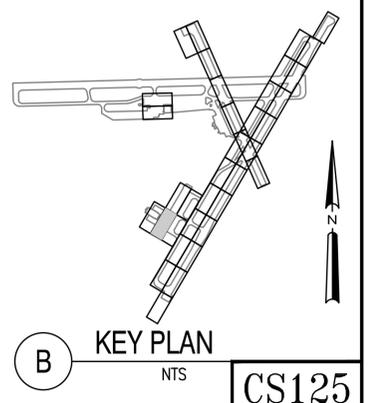
GRAPHIC SCALE
1" = 25'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 129 OF 171

Wallops Airfield Repair Project
CoF Phase I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH
DATE:
REVISED:
DRAWING NO.
17316

CS124



A SITE PLAN (13 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

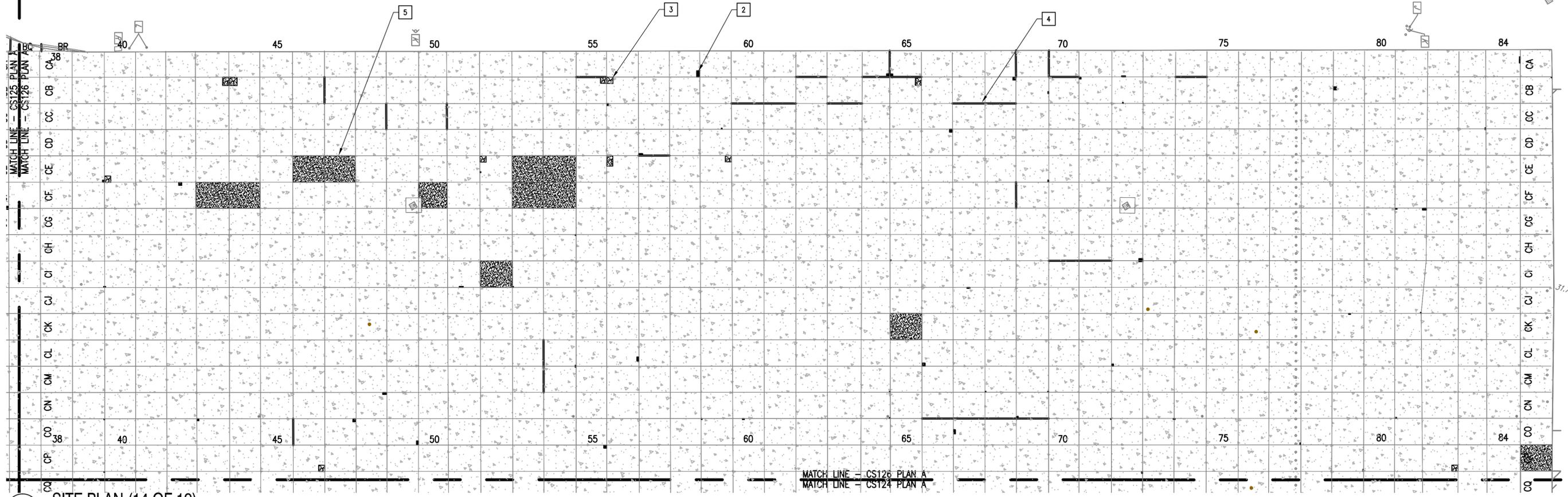
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

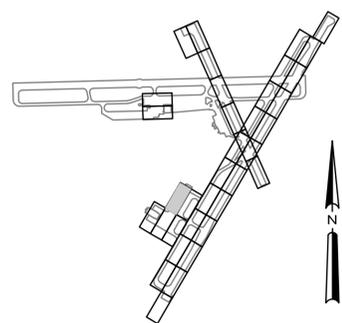
GRAPHIC SCALE
1" = 25'
0' 25' 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 130 OF 171

Wallops Airfield Repair Project
CoF Phase I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH
DATE:
REVISED:
DRAWING NO.
17317



A SITE PLAN (14 OF 19)
1" = 25'

MATCH LINE - CS126 PLAN A
MATCH LINE - CS124 PLAN A



B KEY PLAN
NTS CS126

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

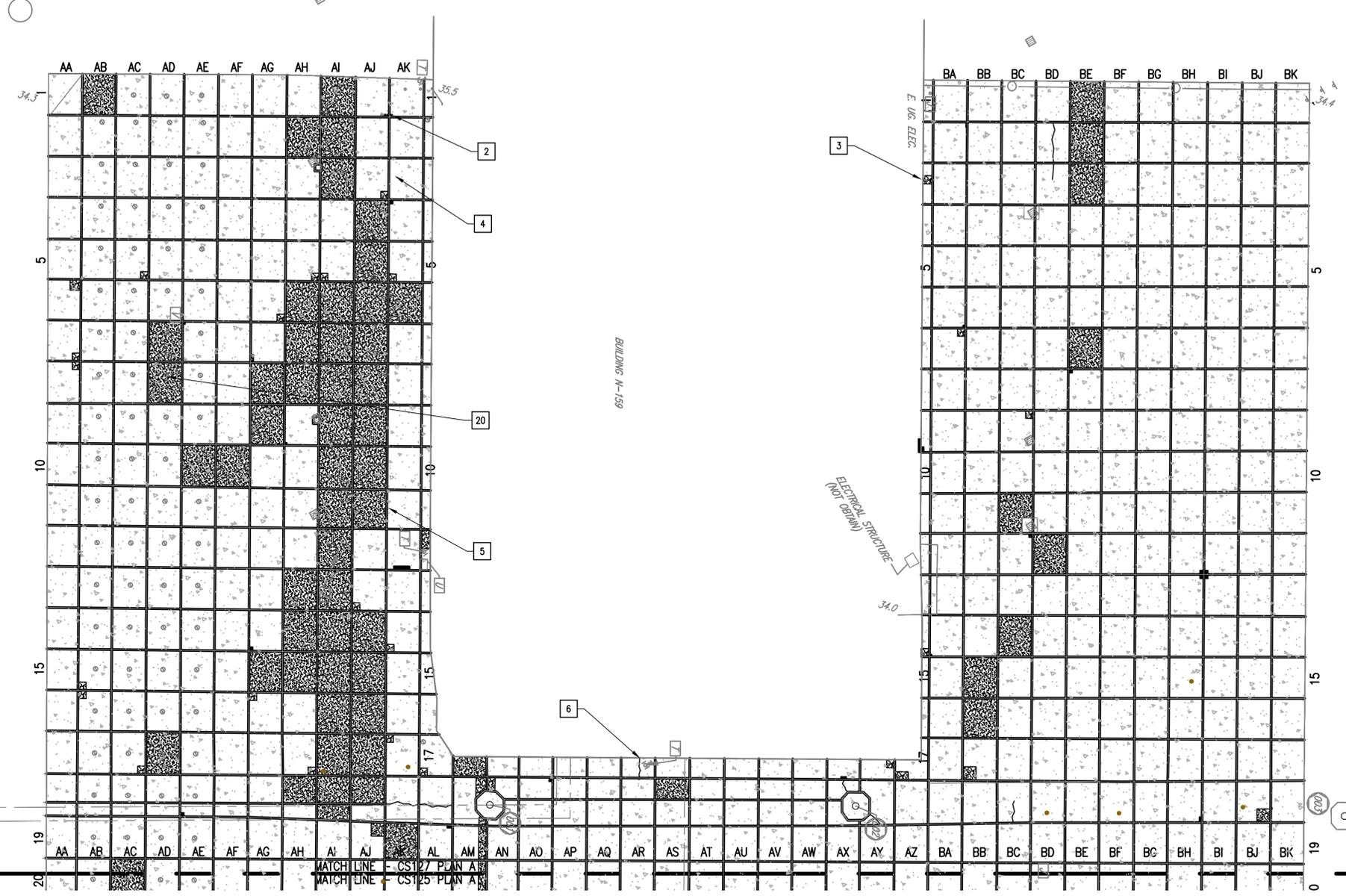
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

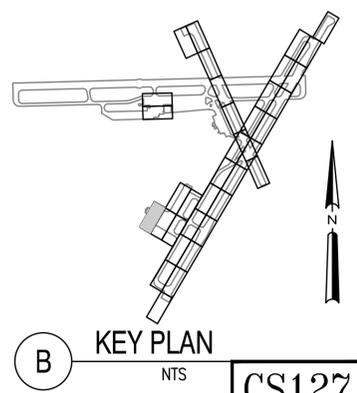
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 25' 0' 25' 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 131 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT DATE:
CK. LMH REVISED:
DRAWING NO.
17318



A SITE PLAN (15 OF 19)
1" = 25'



B KEY PLAN
NTS CS127

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

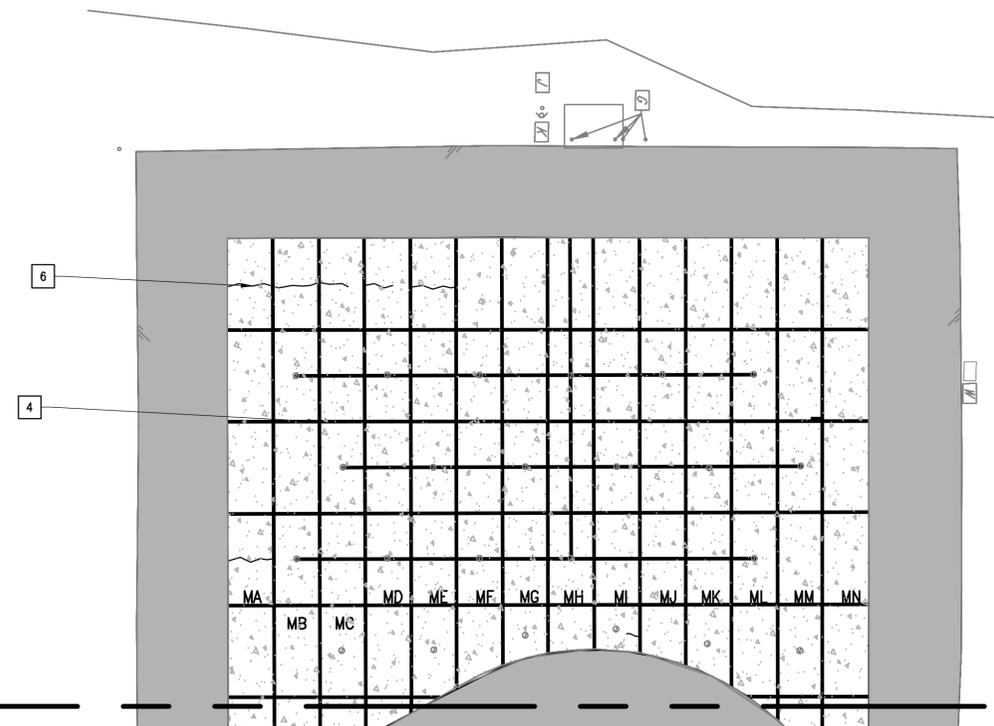
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

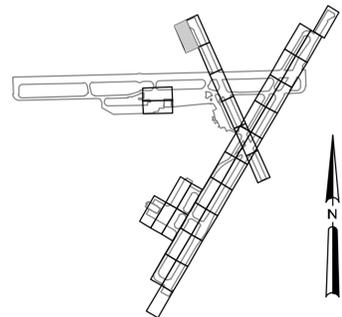
GRAPHIC SCALE
1" = 25' 0' 25' 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE
1" = 25'
SHEET 132 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DR. MVT
CK. LMH
DATE:
REVISED:
DRAWING NO.
17319



MATCH LINE - CS128 PLAN A
MATCH LINE - CS129 PLAN A

A SITE PLAN (16 OF 19)
1" = 25'



B KEY PLAN
NTS

CS128

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY *[Signature]*
PROJECT MANAGER

NASA SAFETY *[Signature]*
FIRE PROTECTION *[Signature]*

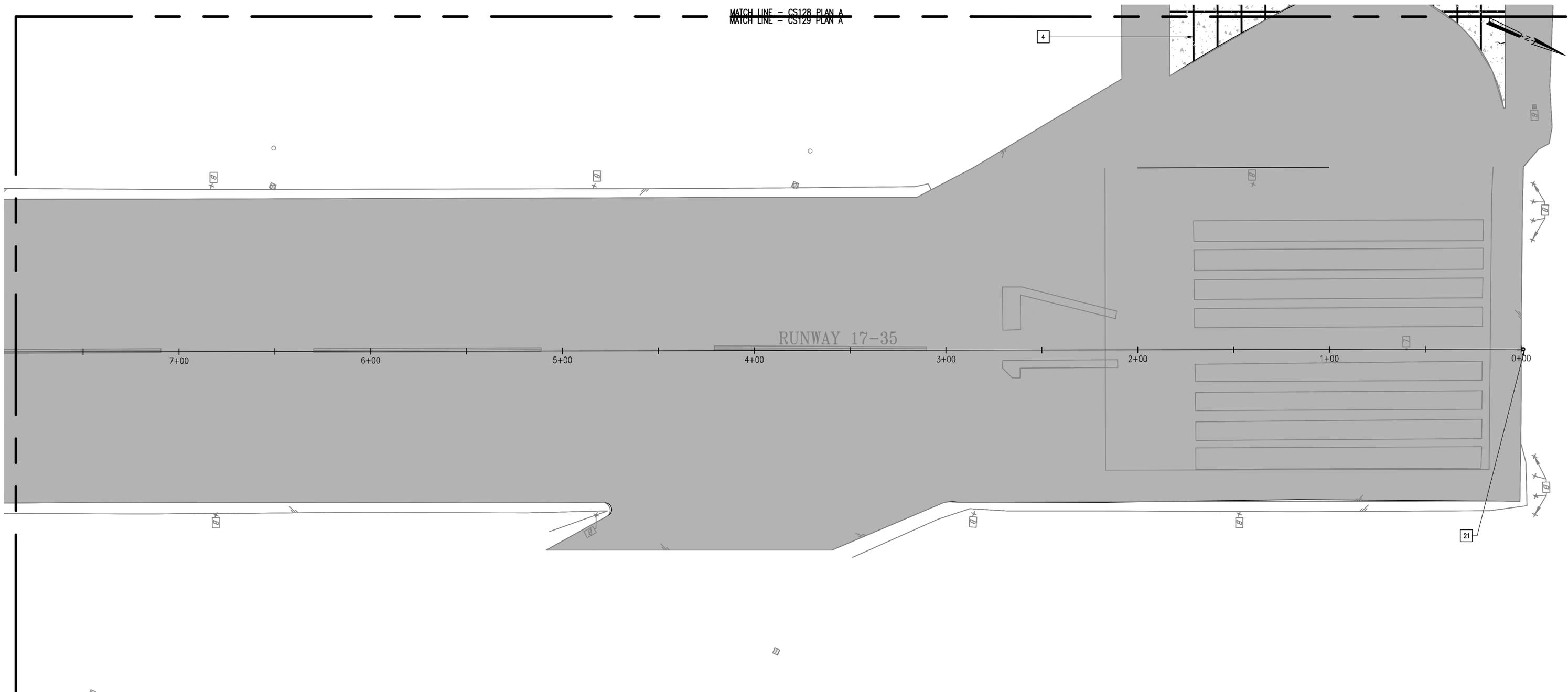
CONSTRUCTION MANAGEMENT *[Signature]*
O & M *[Signature]*

ENGINEERING APPROVAL *[Signature]*
ENGINEERING GROUP LEADER
BRANCH APPROVAL *[Signature]*
BRANCH HEAD

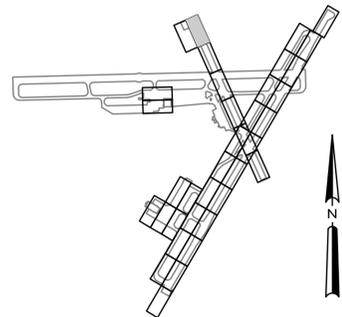
GRAPHIC SCALE
1" = 25' 0' 25' 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1337236-CS1
SCALE 1" = 25'
SHEET 1.3.3 OF 1.71

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
SITE PLAN
PROJECT NUMBER: 1368232
DR. TP DATE:
CK. LMH REVISD:
DRAWING NO. 17320

MATCH LINE - CS128 PLAN A
 MATCH LINE - CS129 PLAN A



A SITE PLAN (17 OF 19)
 1" = 25'



B KEY PLAN
 NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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 WALLOPS FLIGHT FACILITY
 WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER

 SUBMITTED BY
[Signature]
 PROJECT MANAGER

NASA SAFETY
[Signature]
 FIRE PROTECTION
[Signature]

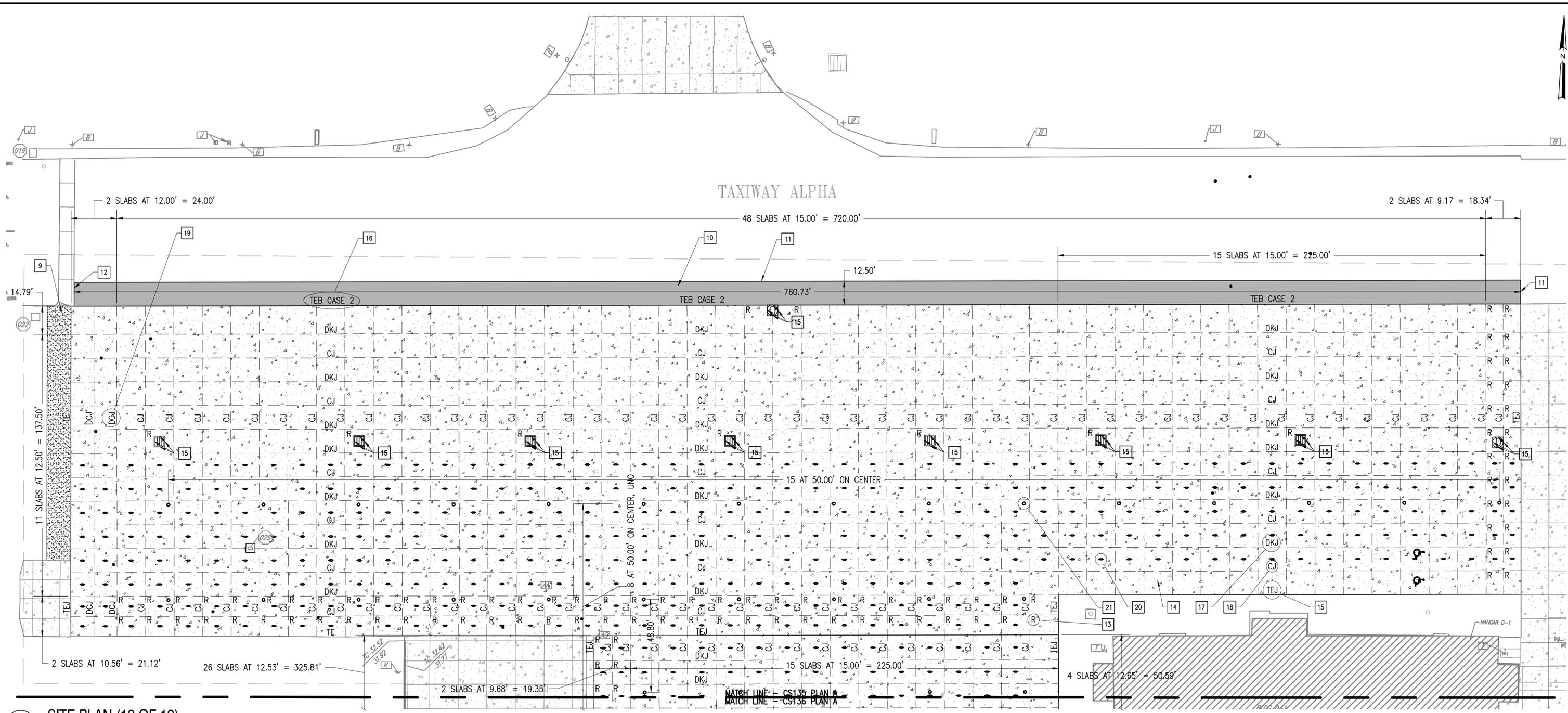
CONSTRUCTION MANAGEMENT
[Signature]
 O & M
[Signature]

ENGINEERING APPROVAL
[Signature]
 ENGINEERING GROUP LEADER
 BRANCH APPROVAL
[Signature]
 BRANCH HEAD

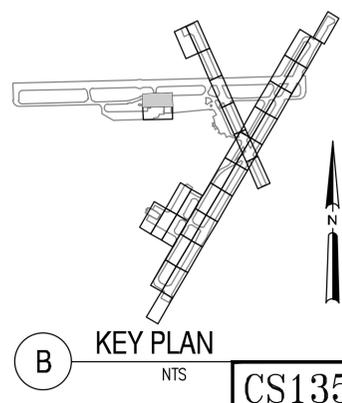
GRAPHIC SCALE
 1" = 25' 0' 25' 50'
 AUTOCAD - RELEASE 2010
 FILE NAME: ...1337236-CS1
 SCALE
 1" = 25'
 SHEET 134 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
 CoF PHASE I
 SITE PLAN
 PROJECT NUMBER: 1368232
 DR. TP
 CK. LMH
 DATE:
 REVISED:
 DRAWING NO.
17321

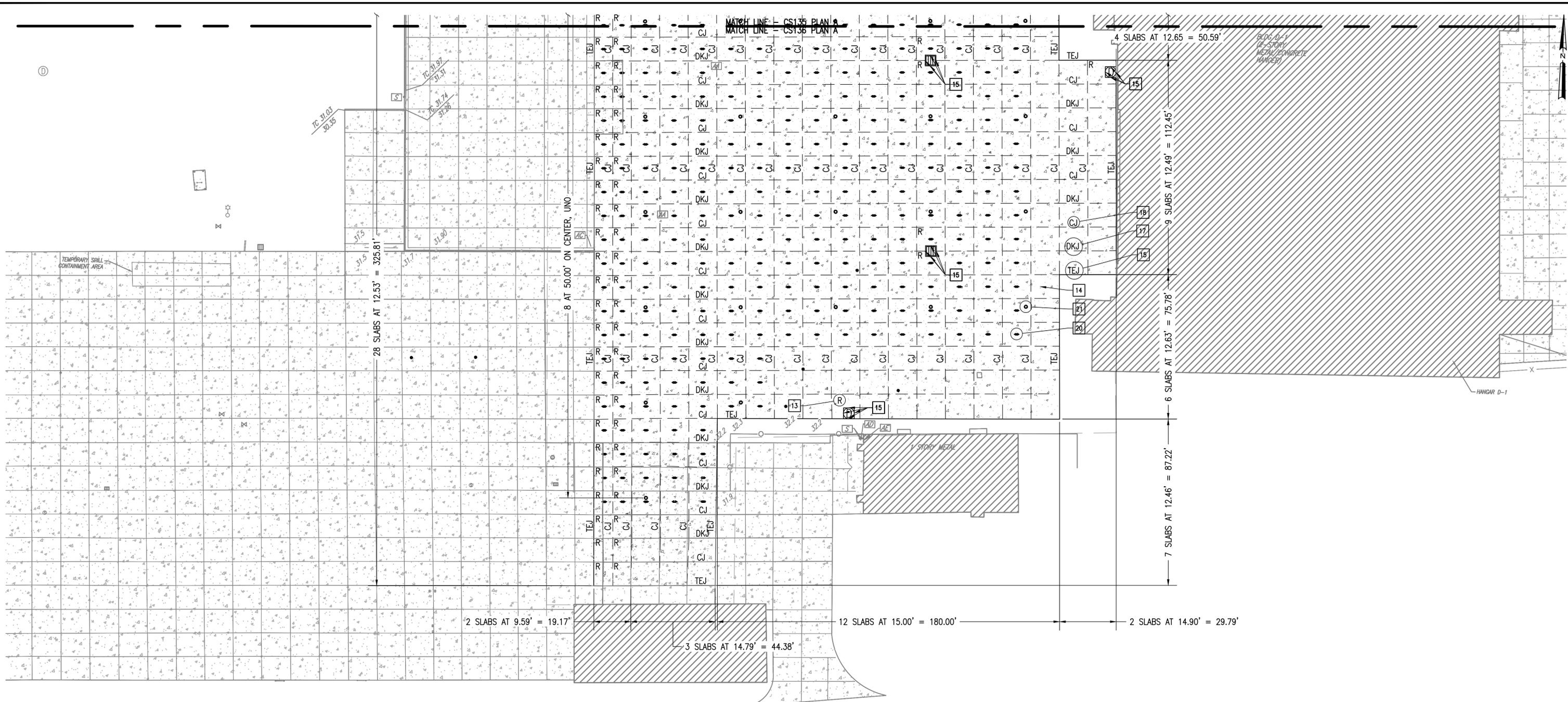
CS129



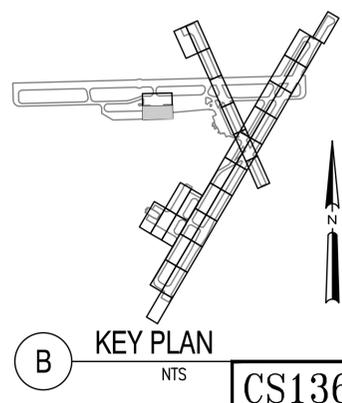
A SITE PLAN (18 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I SITE PLAN		
							<i>Julius C. Roberts</i> FIRE PROTECTION	<i>Nick Clayton</i> O & M	<i>[Signature]</i> ENGINEERING GROUP LEADER	1" = 25' 0' 25' 50' 1" = 25'	PROJECT NUMBER: 1368232 DR. STH CK. LMH	DATE: REVISED:	DRAWING NO. 17322
						SUBMITTED BY <i>[Signature]</i> PROJECT MANAGER	<i>Julius C. Roberts</i> FIRE PROTECTION	<i>Jastalle</i> O & M	<i>[Signature]</i> BRANCH APPROVAL BRANCH HEAD	AUTOCAD - RELEASE 2010 FILE NAME: ...1337236-CS1 SHEET 135 OF 171			



A SITE PLAN (19 OF 19)
1" = 25'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE 1" = 25' 0' 25' 50' AUTOCAD - RELEASE 2010 FILE NAME: ...1337236-CS1	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I SITE PLAN	
						SUBMITTED BY	FIRE PROTECTION	O & M	ENGINEERING GROUP LEADER		PROJECT NUMBER: 1368232	DRAWING NO.
						PROJECT MANAGER			BRANCH APPROVAL		DR. STH	DATE:
									BRANCH HEAD	SHEET 136 OF 171	CK. LMH	REVISED:

AIRFIELD CONCRETE NOTES

- PCC PAVEMENT THICKNESS "H" IS 13 INCHES THICK.
- PROVIDE DOWELS WITH THE FOLLOWING DIMENSIONS:
SOLID BAR DIAMETER "D" 1 1/8 INCHES
MINIMUM LENGTH "L" 20 INCHES
MAXIMUM SPACING "S" 15 INCHES
- DOWELS MUST BE NO CLOSER THAN 16 INCHES TO INTERSECTING JOINTS.
- AT DOWELED CONSTRUCTION JOINTS (DKJ), DRILL & EPOXY DOWEL AT MID-DEPTH OF EXISTING PCC. PLACE DOWEL AT MID DEPTH OF NEW PCC, U.N.O.
- CONCRETE MUST CONFORM TO SPECIFICATION 32 13 11 CONCRETE PAVEMENT FOR AIRFIELDS AND OTHER HEAVY-DUTY PAVEMENT.

CONCRETE JOINT NOTES

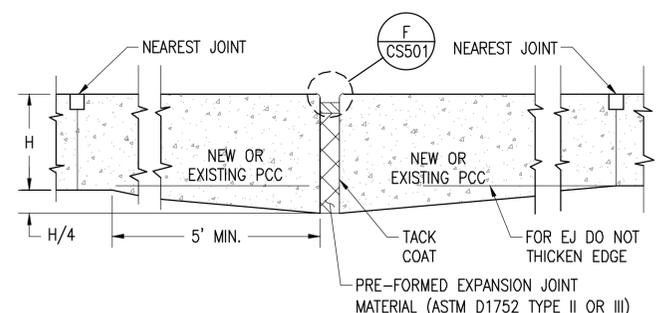
- BACKER ROD DIAMETER MUST BE 1/8 INCH GREATER THAN THE JOINT RESERVOIR WIDTH.
- BACKER ROD MATERIAL MUST BE COMPATIBLE WITH SILICONE SEALANT.
- BRING PRE-FORMED EXPANSION JOINT MATERIAL TO SURFACE DURING INITIAL CONSTRUCTION. PRE-FORMED EXPANSION JOINT MATERIAL MUST EXTEND TO THE BOTTOM OF NEW PCC.

PCC TO BIT. TRANSITION NOTES

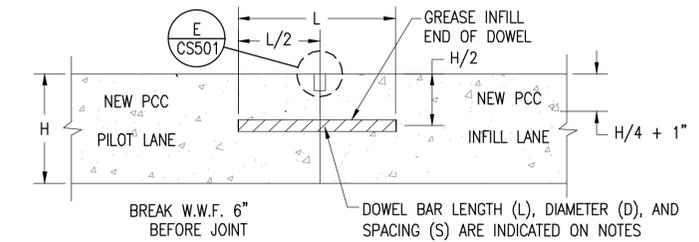
- SECTION APPLIED FULL WIDTH OF RUNWAY.
- COMPACT BIT. CONCRETE USING ROLLER BOTH PARALLEL AND PERPENDICULAR TO CENTERLINE. PROTECT PCC FROM DEBRIS/DAMAGE BY PROHIBITING ROLLER ON PCC & USING POWDERED LIME STRIP ON PCC PRIOR TO OPERATIONS.

SPALL REPAIR NOTES

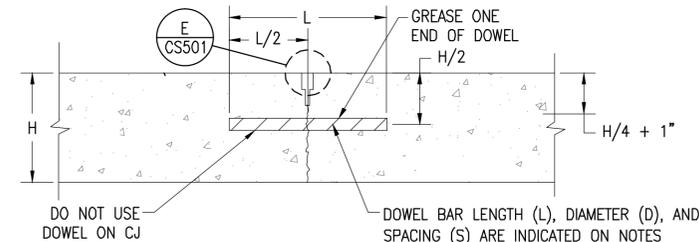
- REPAIR SIZES ARE DENOTED IN "SCHEDULE OF REPAIRS."
- NO OVER SAWING IS PERMITTED.
- STEP ONE:
A. MAKE SAW CUT AT LEAST 1" BEYOND THE OUTER EDGE OF THE AREA OF DAMAGED CONCRETE, SAWING NOT LESS THAN 2 1/2" DEEP.
- STEP TWO:
A. REMOVE ALL SPALLED PCC DOWN TO FIRM SOUND CONCRETE (INDICATED BY A RINGING TONE WHEN TAPPED WITH A STEEL BAR), PROVIDING A MINIMUM OF 3" DEPTH OF CONCRETE REMOVAL & A UNIFORMLY LEVEL EXPOSED SURFACE. REMOVE ALL LOOSE MATERIAL AND DUST FROM THE AREA BY AIR BLASTING.
- STEP THREE:
A. MAINTAIN THE WORKING JOINT BY USE OF A FIBERBOARD OR OTHER SUITABLE INSERT MATERIAL. CAULK THE BASE OF THE INSERT TO PREVENT MATERIAL FROM ENTERING THE VOID AREA BETWEEN THE INSERT AND THE CONCRETE TO REMAIN. OILS, WAXES, GREASE, OR SILICONES SHOULD NOT BE USED ON THE INSERT SINCE BONDING OF THE JOINT SEALING MATERIALS WOULD BE PREVENTED.
B. THOROUGHLY CLEAN THE AREA BY AIR JET TO REMOVE ALL RESIDUAL FINES. CAREFULLY CHECK THAT NO TRACE OF OIL, GREASE, OR MATERIALS THAT WOULD PREVENT CONCRETE FROM BONDING ARE PRESENT.
C. IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR MATERIAL, THE SURFACE OF THE CAVITY (EXCEPT THE FACE OF THE WORKING JOINT) SHALL BE PREPARED PER REPAIR MATERIAL MANUFACTURER'S INSTRUCTIONS.
D. CAREFULLY REMOVE THE INSERT BEFORE THE REPAIR MATERIAL HARDENS TO A HIGH BOND. SLIGHTLY TOOL THE EDGES.
E. REPAIR MATERIAL SHALL BE AS SPECIFIED.
- STEP FOUR:
A. FINISH REPAIR MATERIAL TO GRADE. EXCESS MORTAR OR BINDER CARRIED OVER THE PAVEMENT SHALL BE REMOVED. FINALLY, OPEN SAW CUTS ARE TO BE FILLED WITH A SAND AND EPOXY RESIN BINDER.



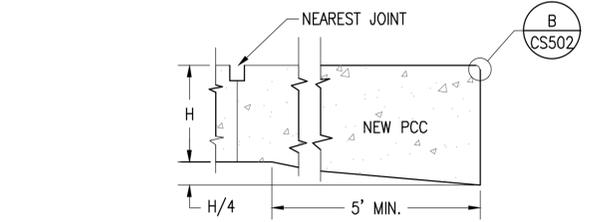
A THICKENED EDGE EXPANSION JOINT (TEJ)
NTS



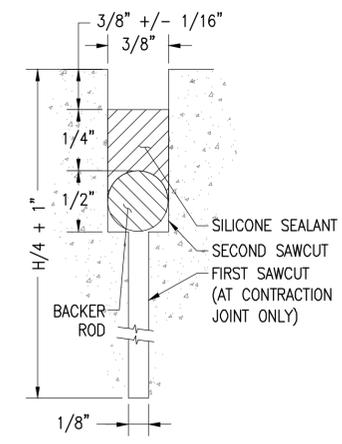
B DOWELED CONSTRUCTION JOINT (DKJ)
NTS



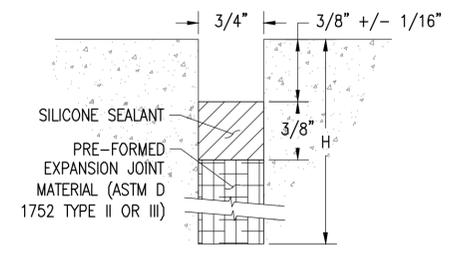
C (DOWELED) CONTRACTION JOINT (DCJ, CJ)
NTS



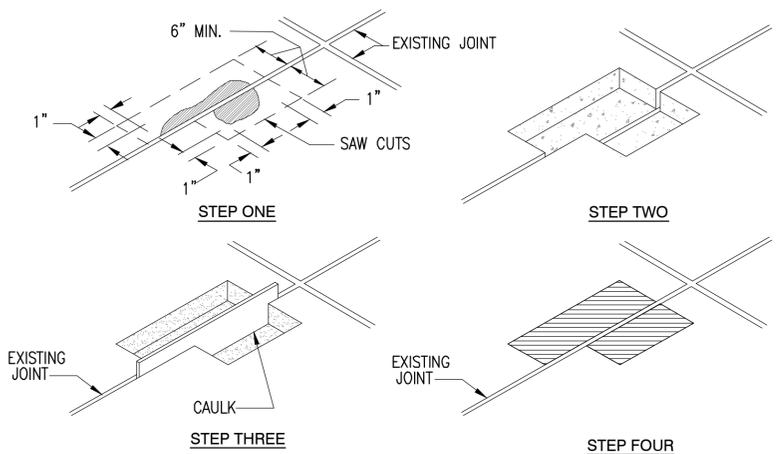
D THICKENED EDGE
NTS



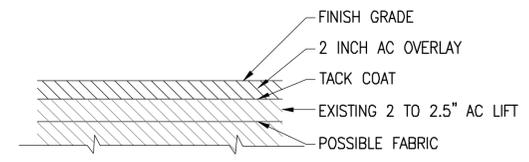
E SAWED JOINT
NTS



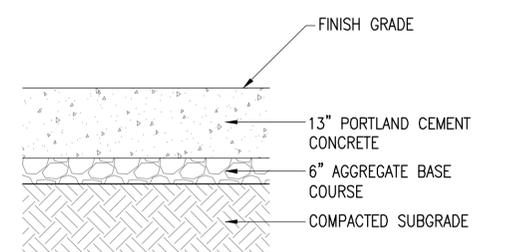
F EXPANSION JOINT
NTS



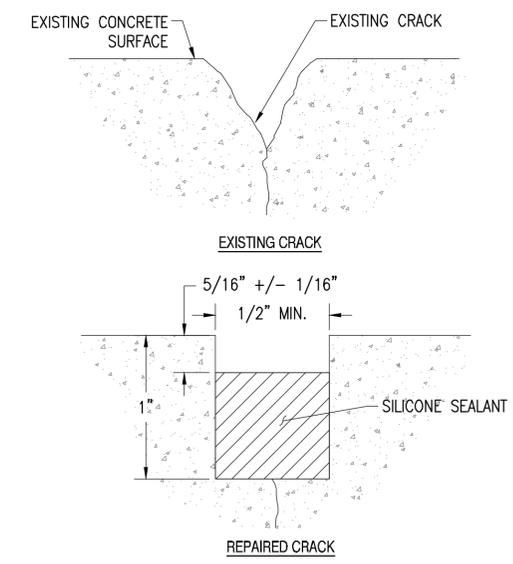
I SPALL REPAIR
NTS



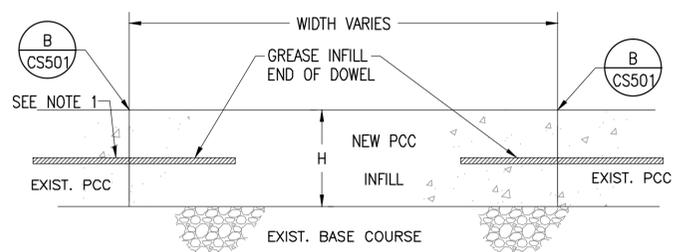
G 2 INCH AC OVERLAY
NTS



H HEAVY DUTY PCC SECTION
NTS



K CONCRETE CRACK REPAIR
NTS



J FULL DEPTH REPAIR AND FULL SLAB REPLACEMENT
NTS

- FULL DEPTH REPAIR NOTES**
- DOWELS SHALL BE NO CLOSER THAN 16 INCHES TO INTERSECTING JOINTS.
 - REMOVE EXISTING PCC AT LOCATION SHOWN IN PLAN AND PROVIDE PCC AS SHOWN. DO NOT UNDERMINE PAVEMENT TO REMAIN.
 - REESTABLISH EXISTING SAWED JOINTS. PROVIDE DKJ ON ALL SIDES OF REPAIR. PROVIDE TEJ AT ANY EXPANSION JOINT. PROVIDE CJ TO REESTABLISH EXISTING JOINTS BISECTING REPAIR.
 - MALE KEY (IF EXISTING) SHALL BE REMOVED PRIOR TO DRILLING FOR DOWEL (INTO EXIST. SLAB).
 - RECOMPACT BASE MATERIAL PRIOR TO NEW CONCRETE PLACEMENT
 - EPOXY GROUT ALL OVERSAWING AFTER COMPLETION OF THE REPAIR.

CS501

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

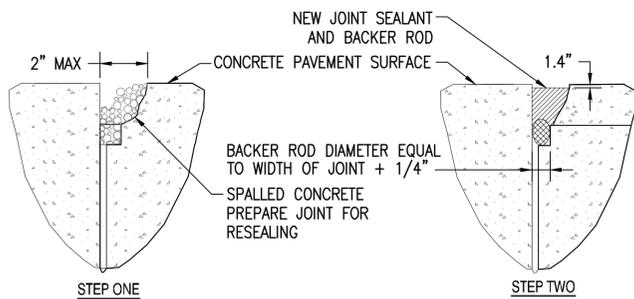
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

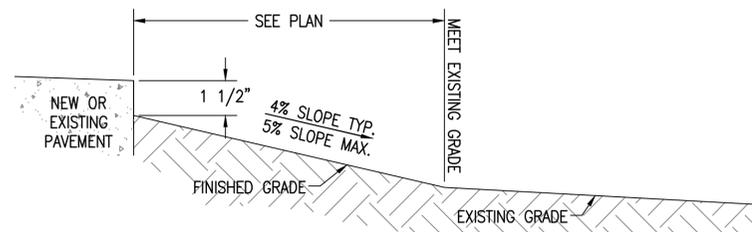
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
NOT TO SCALE
AUTOCAD - RELEASE 2010
FILE NAME: '1-1368232-CS5

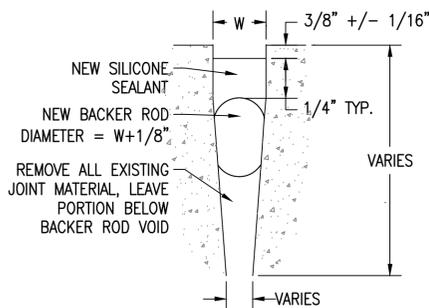
WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
NEW WORK DETAILS
PROJECT NUMBER: 1368232
DR. STH
CK. LMH
DATE:
REVISED:
DRAWING NO.
17324



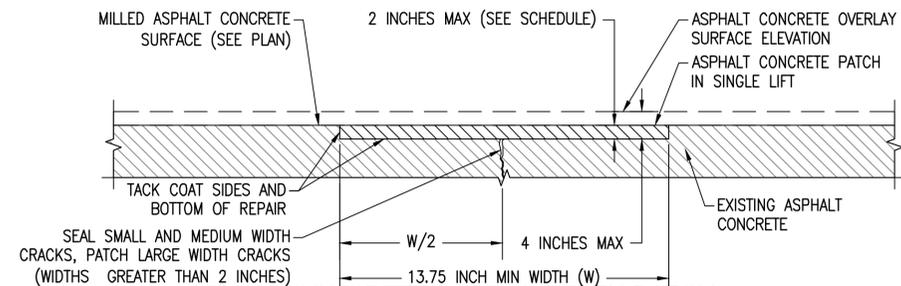
A SPALL REPAIR FOR SPALL LESS THAN 2" WIDE
NTS



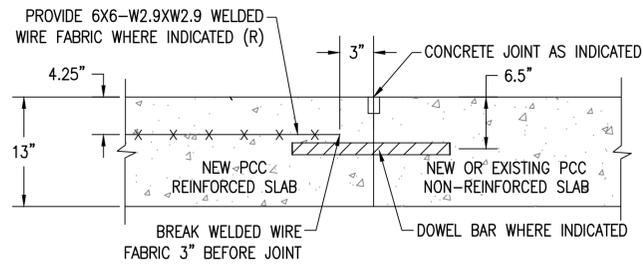
B REGRADE AND SEED SHOULDER
NTS



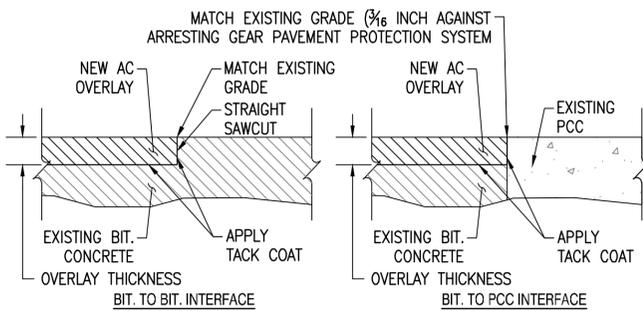
C JOINT RESEALING
NTS



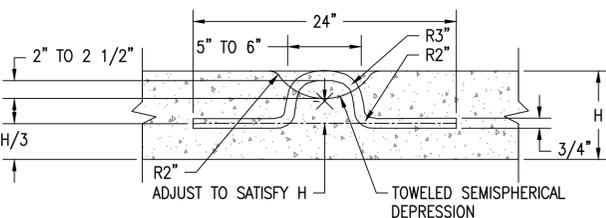
D ASPHALT CONCRETE PARTIAL DEPTH PATCH
NTS



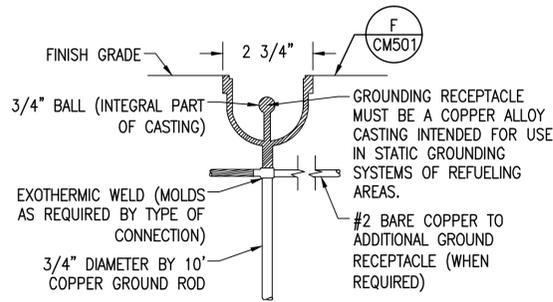
E SLAB REINFORCEMENT (R)
NTS



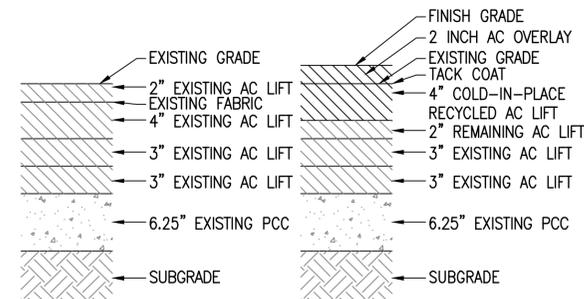
F AC INTERFACE AT EXISTING PCC OR BIT.
NTS



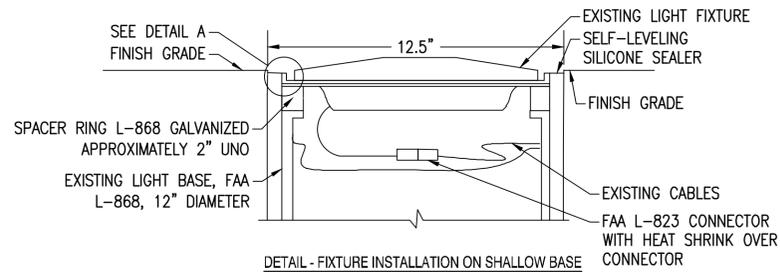
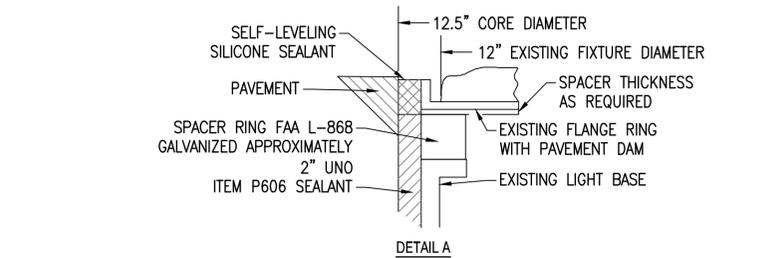
G MOORING EYE
NTS



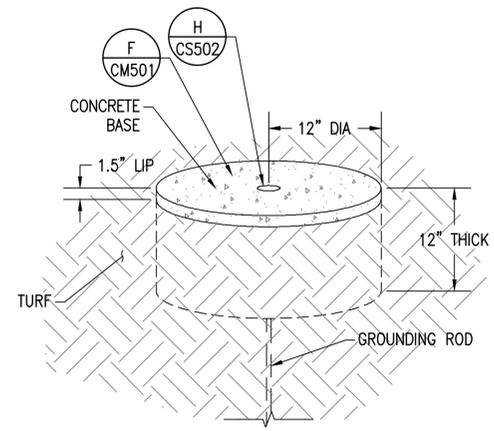
H STATIC GROUND RECEPTACLE
NTS



I 2 INCH OVERLAY OVER 4 INCH COLD-IN-PLACE
NTS



J LIGHT FIXTURE PROTECTION PLATE
NTS



K GROUNDING RECEPTACLE IN TURF
NTS

PCC JOINT RESEALING NOTES

1. REMOVE EXISTING DEBRIS, JOINT SEALANT, AND BACKER ROD AND PREPARE JOINT PER SPECIFICATION.
2. SEE SCHEDULE OF REPAIRS FOR TOTAL QUANTITY OF REQUIRED JOINT RESEALING.

MOORING EYE NOTES

1. PLACE MOORING EYE IN CENTER OF EACH NEW SLAB.
2. ORIENT MOORING EYE PARALLEL TO JOINT.
3. BAR MUST BE GALVANIZED, UNLESS NOTED OTHERWISE
- 4.
5. "h" DENOTES THE THICKNESS OF THE PCC SLAB. "h" IS DETERMINED BY DETAIL H ON SHEET CS501 OR THE NEW WORK SCHEDULE.

FIXTURE PROTECTION PLAN NOTES

1. REMOVE EXISTING LIGHT FIXTURE OR BLANK, EXISTING FLANGE RING WITH PAVEMENT DAM, AND ALL SPACERS. PROTECT, STORE AND REUSE WHERE REQUIRED. NOTE ORIENTATION AND LOCATION OF LIGHT FIXTURES OR BLANK FOR REINSTALLATION USE.
2. PROTECT IN PLACE EXISTING LIGHT BASE AND ALL WIRING.
3. IF EXISTING SHALLOW LIGHT BASE IS DISTURBED DURING CONSTRUCTION CONTRACTOR SHALL USE A SETTING JIG, MANUFACTURED BY AN AIRFIELD LIGHTING EQUIPMENT MANUFACTURER, TO HOLD THE BASE AT THE PROPER ELEVATION AND AZIMUTH WHILE THE P-606 IS HARDENING.
4. USE SEALANTS AND EMBEDDING COMPOUNDS THAT ARE CHEMICALLY COMPATIBLE WITH THE PAVEMENT MATERIAL. IT IS EXTREMELY IMPORTANT TO CAREFULLY RESEARCH PAST USE HISTORY OF THE SEALANT TO BE SPECIFIED.
5. PROVIDE FOR EACH LIGHT BASE, WITH LIGHT FIXTURE OR BLANK, A MUD PLATE WITH RAISED TARGET, CENTER PUNCH MARK AND KNOCKOUTS. INSTALL MUD PLATE IMMEDIATELY AFTER LIGHT FIXTURE IS REMOVED TO PREVENT MILLINGS AND OTHER MATERIALS FROM ENTERING LIGHT BASE.
6. SURVEY EXISTING LIGHTS BEFORE MILLING AND PAVING FOR LOCATIONS. AFTER PAVING, RESURVEY, MARK LOCATIONS AND CORE DRILL. CORE DRILL DIAMETER OF LIGHT BASE OF VARIOUS THICKNESS UP TO 2".
7. PROVIDE SPACER RING (2" THICK, BUT MAY VARY) AND ADDITIONAL SPACER RINGS, FOR A MAXIMUM OF 3 RINGS INCLUDING THE FLANGE RING, TO INSURE THAT THE LIGHT FIXTURE IS BETWEEN +0" -1/16" TO THE SURROUNDING PAVEMENT SURFACE, PER FAA AC 150/5340-30.
8. INSTALL EXISTING LIGHT FIXTURE, EXISTING FLANGE RING WITH PAVEMENT DAM AND SPACERS.
9. CONTRACTOR SHALL BE FAMILIAR WITH PROCEDURES AS OUTLINED IN FAA AC 150/5340-30 AND "THE DESIGN, INSTALLATION, AND MAINTENANCE OF IN-PAVEMENT AIRPORT LIGHTING", SPECIFICALLY THE PARTS ON PAVEMENT OVERLAYS. THIS MANUAL CAN BE OBTAINED FROM THE FAA OR JAQUITH WEBSITES.
10. PROVIDE 18-8 STAINLESS STEEL(SS) 3/8"-16 BOLTS AND SS LOCKING WASHERS OF THE TWO-PIECE WEDGE-LOCK DESIGN. WHEN INSTALLED, BOLT THREADS SHALL EXTEND INTO EXISTING LIGHT BASE 1/4" MINIMUM.
11. PROVIDE SHOP DRAWING SUBMITTALS FOR MUDPLATE, SPACERS, WASHERS, SEALANT, AND SETTING JIG.
12. SEE DRAWING G-003 GENERAL WORK NOTES FOR MILLING REQUIREMENTS NEAR IN-PAVEMENT LIGHT FIXTURES.
13. MILLING OPERATIONS WITHIN 2 FOOT PROXIMITY TO LIGHT BASES MUST BE

CS502



DATE	LET.	REVISIONS	CK.	AP.

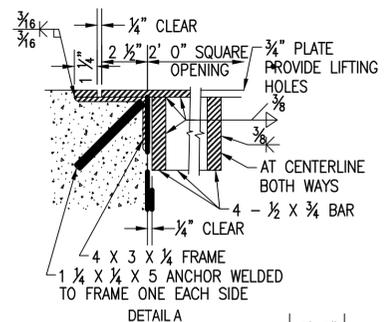
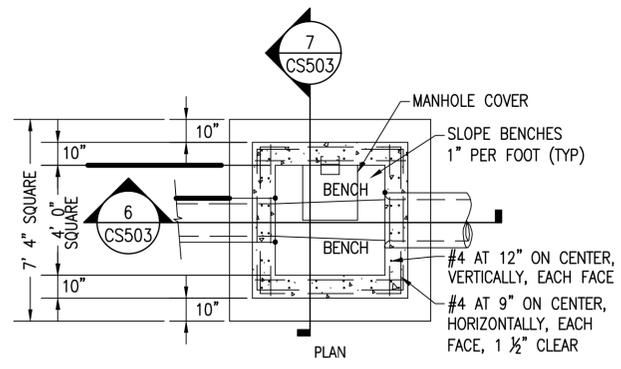
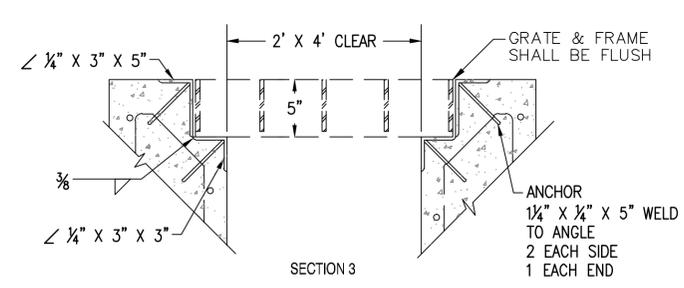
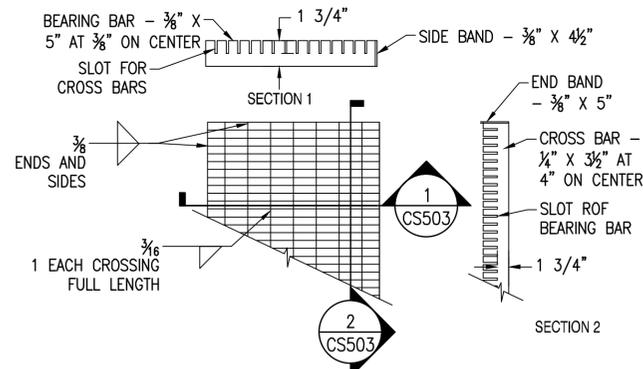
PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL
SUBMITTED BY	FIRE PROTECTION	O & M	BRANCH APPROVAL
PROJECT MANAGER			BRANCH HEAD

GRAPHIC SCALE	WITH HAND OPERATED
NOT TO SCALE	
AUTOCAD - RELEASE 2010	SCALE
FILE NAME: '1-1368232-CS5	NOT TO SCALE

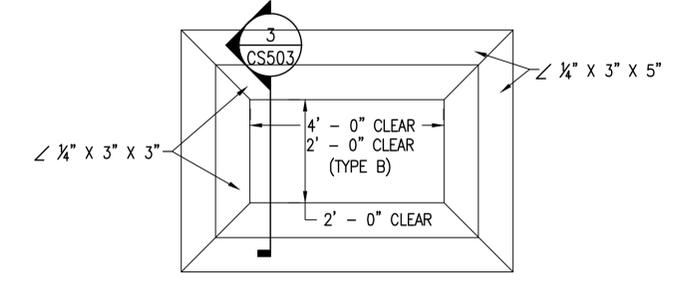
PROJECT NUMBER: 1368232	DRAWING NO.
DR. STH	17325
CK. LMH	

AIRFIELD COVERS, GRATES AND FRAMES

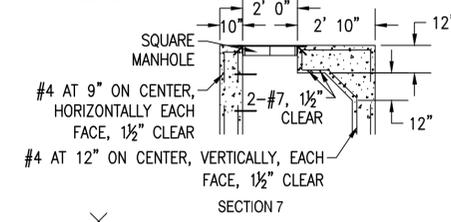
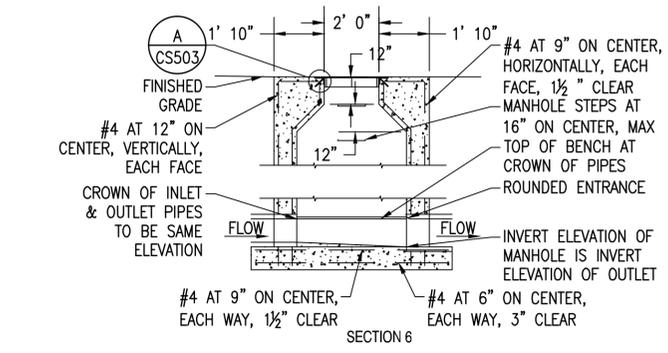
1. ALL AIRFIELD DROP INLETS AND MANHOLES SHALL HAVE AIRFIELD RATED COVERS, GRATES, AND FRAMES (CASTINGS) IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5320-6D APPENDIX 3 ITEM 2.D.(1) AND FAA ADVISORY CIRCULAR 150/5370-10A, OR EN 124 F900 CLASS.



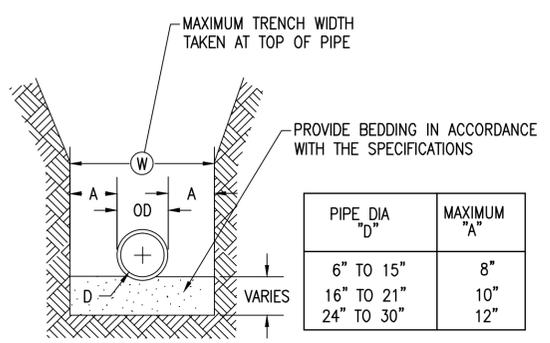
A AIRFIELD DROP INLET GRATE
NTS



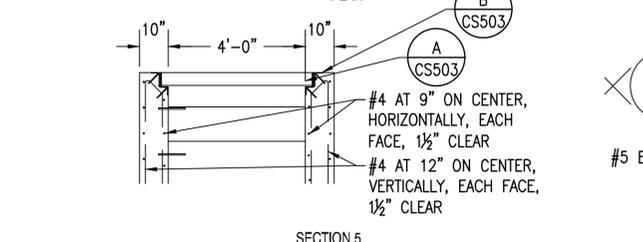
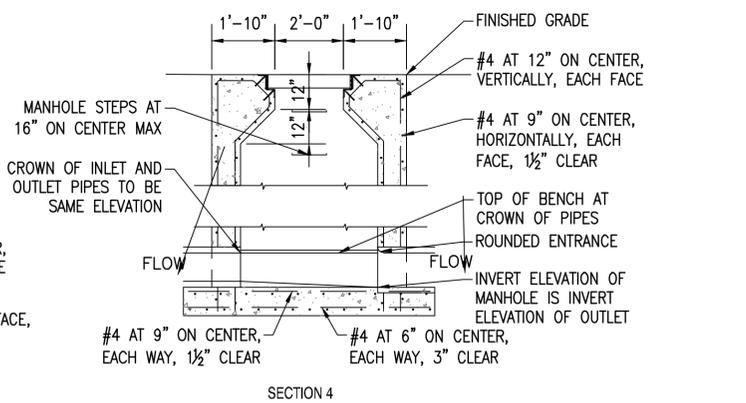
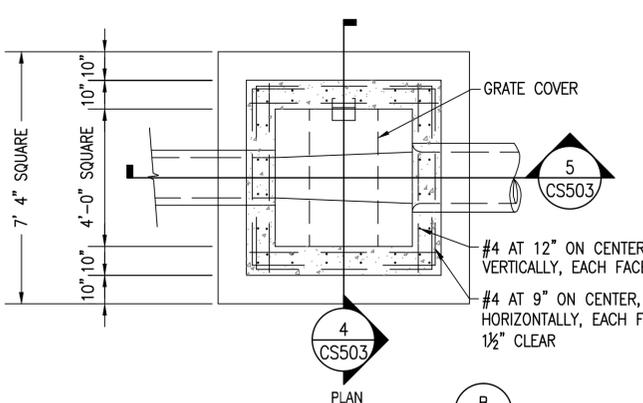
B AIRFIELD DROP INLET FRAME
NTS



D AIRFIELD MANHOLE
NTS

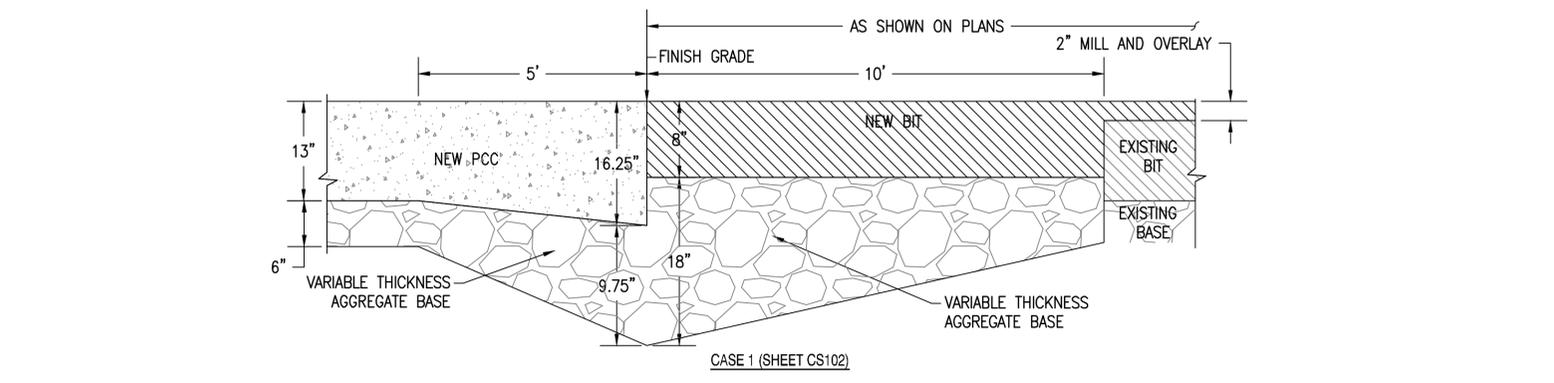
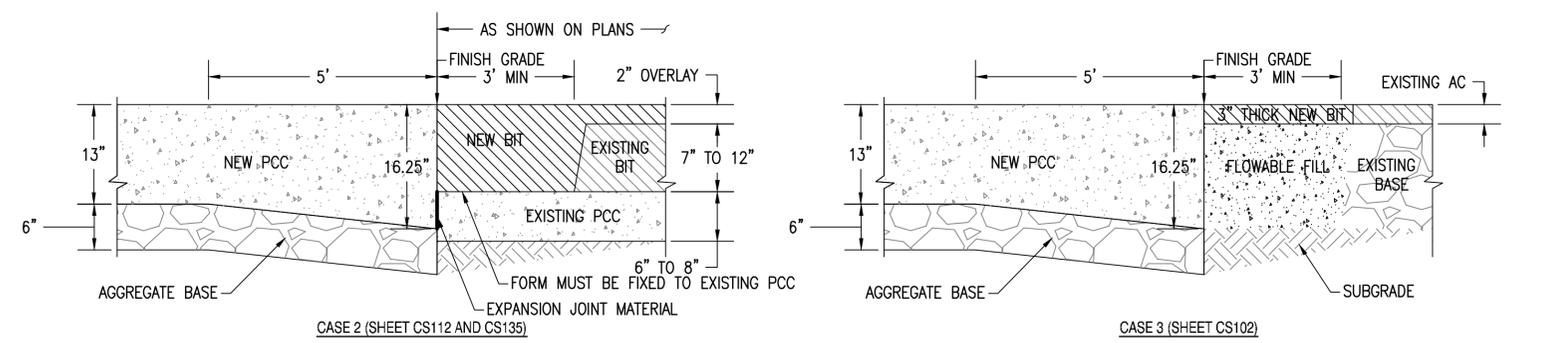


F BEDDING DETAIL
NTS



C AIRFIELD RATED DROP INLET
NTS

HEAD (FT)	CAPACITY (CFS)
0.2	8
0.4	12
0.6	15
0.8	17
1.0	19



E THICKENED EDGE BUTT JOINT (TEB)
NTS



DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	Wallops Airfield Repair Project CoF Phase I		
						<i>Julius C. [Signature]</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	NOT TO SCALE	NEW WORK DETAILS		
					SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. [Signature]</i>	O & M <i>[Signature]</i>	ENGINEERING GROUP LEADER <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: '1-1368232-CS5	SCALE NOT TO SCALE	PROJECT NUMBER: 1368232	DRAWING NO.
					PROJECT MANAGER			BRANCH APPROVAL <i>[Signature]</i>	SHEET 139 OF 171	DR. STH	DATE:	17326
								BRANCH HEAD		CK. LMH	REVISED:	

SPALL REPAIR SCHEDULE

SPALL REPAIR SCHEDULE (CONTINUED)

SPALL REPAIR SCHEDULE (CONTINUED)

SPALL REPAIR SCHEDULE (CONTINUED)

SPALL REPAIR SCHEDULE (CONTINUED)

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
2. SEE DETAIL FOR DIMENSION "D".

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
2. SEE DETAIL FOR DIMENSION "D".

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
2. SEE DETAIL FOR DIMENSION "D".

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
2. SEE DETAIL FOR DIMENSION "D".

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
2. SEE DETAIL FOR DIMENSION "D".

Table with columns SHEET, COLUMN, ROW, W (FT), L (FT), D (FT) for items CS102 through CS110.

Table with columns SHEET, COLUMN, ROW, W (FT), L (FT), D (FT) for items CS110 through CS115.

Table with columns SHEET, COLUMN, ROW, W (FT), L (FT), D (FT) for items CS115 through CS124. Includes vertical label 'OPTION 1 ITEMS'.

Table with columns SHEET, COLUMN, ROW, W (FT), L (FT), D (FT) for items CS124 through CS125. Includes vertical label 'OPTION 1 ITEMS'.

Table with columns SHEET, COLUMN, ROW, W (FT), L (FT), D (FT) for items CS125 through CS126.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPPS FLIGHT FACILITY WALLOPPS ISLAND, VIRGINIA 23337

Table with columns DATE, LET., REVISIONS, CK., AP.

PROJECT ENGINEER, SUBMITTED BY, PROJECT MANAGER

NASA SAFETY, FIRE PROTECTION

CONSTRUCTION MANAGEMENT, O & M

ENGINEERING APPROVAL, ENGINEERING GROUP LEADER, BRANCH APPROVAL, BRANCH HEAD

GRAPHIC SCALE, NOT TO SCALE, AUTOCAD - RELEASE 2010, FILE NAME: '1-1368232-CS6

WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I NEW WORK SCHEDULE, PROJECT NUMBER: 1368232, DRAWING NO. 17327

CS601

SPALL REPAIR SCHEDULE (CONTINUED)

SPALL REPAIR SCHEDULE (CONTINUED)

FULL DEPTH REPAIR SCHEDULE (CONTINUED)

FULL DEPTH REPAIR SCHEDULE (CONTINUED)

FULL DEPTH REPAIR SCHEDULE (CONTINUED)

- PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL I ON SHEET CS501.
- SEE DETAIL FOR DIMENSION "D".

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS126	CC	56	1.00	1.00	0.25 MIN
CS126	CC	59	0.50	0.50	0.25 MIN
CS126	CC	83	0.50	0.50	0.25 MIN
CS126	CD	57	1.00	2.00	0.25 MIN
CS126	CD	66	1.50	1.50	0.25 MIN
CS126	CD	83	0.50	0.50	0.25 MIN
CS126	CE	39	1.00	1.00	0.25 MIN
CS126	CE	52	0.50	0.50	0.25 MIN
CS126	CE	69	0.50	1.00	0.25 MIN
CS126	CF	42	1.50	1.50	0.25 MIN
CS126	CG	81	0.50	1.00	0.25 MIN
CS126	CG	81	1.00	2.00	0.25 MIN
CS126	CH	65	0.50	0.50	0.25 MIN
CS126	CH	72	1.00	2.00	0.25 MIN
CS126	CI	39	0.50	0.50	0.25 MIN
CS126	CI	40	0.50	0.50	0.25 MIN
CS126	CI	54	0.50	0.50	0.25 MIN
CS126	CI	72	0.50	2.00	0.25 MIN
CS126	CJ	51	0.50	2.00	0.25 MIN
CS126	CJ	53	0.50	0.50	0.25 MIN
CS126	CJ	67	0.50	1.50	0.25 MIN
CS126	CJ	81	0.50	0.50	0.25 MIN
CS126	CK	79	0.50	1.00	0.25 MIN
CS126	CL	66	1.50	1.50	0.25 MIN
CS126	CL	72	1.00	1.00	0.25 MIN
CS126	CM	54	0.50	0.50	0.25 MIN
CS126	CM	56	1.00	2.00	0.25 MIN
CS126	CM	64	0.50	0.50	0.25 MIN
CS126	CM	68	0.50	0.50	0.25 MIN
CS126	CM	69	0.50	0.50	0.25 MIN
CS126	CN	48	1.00	2.00	0.25 MIN
CS126	CN	54	0.50	0.50	0.25 MIN
CS126	CN	64	0.50	0.50	0.25 MIN
CS126	CN	69	1.00	1.00	0.25 MIN
CS126	CN	81	0.50	1.00	0.25 MIN
CS126	CO	39	0.50	0.50	0.25 MIN
CS126	CO	43	1.00	1.00	0.25 MIN
CS126	CO	47	1.50	1.50	0.25 MIN
CS126	CO	59	0.50	0.50	0.25 MIN
CS126	CO	60	0.50	1.00	0.25 MIN
CS126	CO	67	1.00	2.00	0.25 MIN
CS126	CO	71	0.50	0.50	0.25 MIN
CS126	CO	73	0.50	0.50	0.25 MIN
CS126	CO	74	0.50	0.50	0.25 MIN
CS126	CO	77	0.50	1.00	0.25 MIN
CS126	CP	49	1.00	2.00	0.25 MIN
CS126	CP	55	1.50	1.50	0.25 MIN
CS126	CP	79	0.50	1.00	0.25 MIN
CS126	CQ	39	0.50	0.50	0.25 MIN
CS126	CQ	72	0.50	1.00	0.25 MIN
CS127	AE	7	1.00	1.00	0.25 MIN
CS127	AE	18	1.50	2.00	0.25 MIN
CS127	AG	14	1.50	1.50	0.25 MIN
CS127	AH	3	0.50	0.50	0.25 MIN
CS127	AH	7	1.50	1.50	0.25 MIN
CS127	AH	9	1.00	1.00	0.25 MIN
CS127	AI	18	1.00	1.00	0.25 MIN
CS127	AJ	1	1.00	3.00	0.25 MIN
CS127	AK	1	1.00	1.00	0.25 MIN
CS127	AK	4	1.50	1.50	0.25 MIN
CS127	AK	12	1.50	6.00	0.25 MIN
CS127	AL	19	1.00	2.00	0.25 MIN
CS127	AO	18	1.50	1.50	0.25 MIN
CS127	AR	18	0.50	0.50	0.25 MIN
CS127	AX	17	1.00	2.00	0.25 MIN
CS127	AZ	9	1.00	4.00	0.25 MIN
CS127	AZ	9	1.00	2.00	0.25 MIN
CS127	BA	2	0.50	2.00	0.25 MIN
CS127	BA	3	0.50	0.50	0.25 MIN
CS127	BA	6	1.00	1.00	0.25 MIN
CS127	BA	14	1.00	1.00	0.25 MIN
CS127	BC	12	1.50	1.50	0.25 MIN
CS127	BE	8	1.50	1.50	0.25 MIN
CS127	BF	2	0.50	0.50	0.25 MIN
CS127	BF	4	0.50	0.50	0.25 MIN

OPTION 1 ITEMS

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS127	BF	6	0.50	5.00	0.25 MIN
CS127	BF	10	0.50	0.50	0.25 MIN
CS127	BF	12	0.50	0.50	0.25 MIN
CS127	BF	14	0.50	0.50	0.25 MIN
CS127	BG	4	0.50	4.00	0.25 MIN
CS127	BH	12	1.50	1.50	0.25 MIN
CS127	BH	13	1.50	1.50	0.25 MIN
CS127	BH	18	1.00	2.00	0.25 MIN
CS127	BI	12	1.50	1.50	0.25 MIN
CS127	BI	13	1.50	1.50	0.25 MIN
CS127	BK	18	0.50	0.50	0.25 MIN
CS127	BK	19	0.50	0.50	0.25 MIN
CS128	MM	2	1.00	3.00	0.25 MIN

FULL DEPTH REPAIR SCHEDULE

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL J ON SHEET CS501.

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS102	IK	18	3.00	3.00	0.83
CS102	IL	18	3.00	3.00	0.83
CS102	IL	19	3.00	3.00	0.83
CS108	KI	14	3.00	12.50	0.83
CS108	KI	15	3.00	12.50	0.83
CS108	KJ	14	3.00	12.50	0.83
CS108	KJ	15	3.00	12.50	0.83
CS108	KL	13	3.00	5.00	0.83
CS109	LB	24	3.00	3.00	0.67
CS109	LB	25	3.00	3.00	0.67
CS109	LF	7	3.00	12.50	0.83
CS109	LF	8	3.00	3.00	0.83
CS109	LF	9	3.00	3.00	0.83
CS109	LF	11	4.00	4.00	0.67
CS109	LF	23	12.50	15.00	0.67
CS109	LI	19	3.00	3.00	0.67
CS109	LK	14	3.00	3.00	0.67
CS109	LK	16	4.00	4.00	0.67
CS109	LM	14	5.00	5.00	0.67
CS109	LM	21	3.00	5.00	0.67
CS109	LN	15	4.00	4.00	0.67
CS109	LN	16	3.00	4.00	0.67
CS109	LN	21	5.00	5.00	0.67
CS109	LN	22	3.00	5.00	0.67
CS109	LN	23	3.00	5.00	0.67
CS109	LN	24	3.00	5.00	0.67
CS109	LN	27	3.00	5.00	0.67
CS109	LN	28	3.00	5.00	0.67
CS109	LN	29	3.00	5.00	0.67
CS109	LN	30	3.00	5.00	0.67
CS109	LP	29	3.00	12.50	0.67
CS109	LQ	29	3.00	12.50	0.67
CS110	LC	35	3.00	5.00	0.67
CS110	LC	36	3.00	3.00	0.67
CS110	LC	37	3.00	3.00	0.67
CS110	LI	35	3.00	3.00	0.67
CS110	LI	42	3.00	3.00	0.67
CS110	LK	42	3.00	3.00	0.67
CS110	LN	31	3.00	5.00	0.67
CS110	LN	32	3.00	5.00	0.67
CS110	LN	33	3.00	5.00	0.67
CS110	LN	34	3.00	5.00	0.67
CS110	LN	35	3.00	5.00	0.67
CS110	LN	36	3.00	5.00	0.67
CS110	LN	37	3.00	5.00	0.67
CS110	LN	38	3.00	5.00	0.67
CS110	LN	39	3.00	5.00	0.67
CS110	LN	40	3.00	5.00	0.67
CS110	LN	41	3.00	5.00	0.67
CS110	LN	42	3.00	5.00	0.67
CS110	LN	43	3.00	5.00	0.67
CS110	LN	64	4.00	12.50	0.67
CS110	LO	64	4.00	12.50	0.67
CS110	LP	64	4.00	12.50	0.67
CS110	LQ	62	3.00	5.00	0.67
CS110	LQ	64	4.00	12.50	0.67

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL J ON SHEET CS501.

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS113	HD	11	3.00	3.00	0.83
CS113	HE	2	3.00	12.13	0.83
CS113	HE	3	3.00	12.50	0.83
CS113	HE	4	3.00	12.50	0.83
CS113	HE	5	3.00	12.50	0.83
CS113	HE	6	3.00	12.50	0.83
CS113	HE	7	3.00	12.50	0.83
CS113	IB	7	3.00	4.00	0.83
CS113	IC	4	3.00	3.00	0.83
CS113	IK	8	3.00	3.00	0.83
CS115	JA	5	3.00	12.50	0.83
CS115	JB	9	3.00	4.00	0.83
CS115	JB	10	3.00	4.00	0.83
CS123	CU	7	3.00	3.00	0.83
CS123	CU	8	3.00	3.00	0.83
CS123	CU	19	3.00	3.00	0.83
CS123	CU	23	3.00	3.00	0.83
CS123	CU	27	3.00	3.00	0.83
CS123	CU	28	3.00	3.00	0.83
CS123	CW	3	3.00	3.00	0.83
CS123	CZ	23	3.00	3.00	0.83
CS123	CZ	24	3.00	3.00	0.83
CS123	CZ	30	3.00	3.00	0.83
CS123	CZ	31	3.00	3.00	0.83
CS123	CZ	35	3.00	3.00	0.83
CS123	CZ	36	3.00	3.00	0.83
CS123	DC	3	3.00	5.84	0.83
CS123	DC	4	3.00	3.63	0.83
CS123	DC	12	4.00	8.24	0.83
CS123	DC	35	3.00	3.00	0.83
CS123	ED	2	3.00	4.00	0.83
CS123	ED	4	3.00	3.00	0.83
CS123	ED	5	3.00	3.00	0.83
CS123	EF	1	3.00	3.00	0.83
CS123	EH	1	3.00	3.00	0.83
CS123	EL	1	3.00	3.00	0.83
CS124	CZ	65	0.50	4.00	0.83
CS124	DA	38	3.00	3.00	0.83
CS124	DA	44	3.00	3.00	0.83
CS124	DA	45	3.00	3.00	0.83
CS124	DA	49	3.00	3.00	0.83
CS124	DA	58	3.00	3.00	0.83
CS124	DA	59	3.00	3.00	0.83
CS124	DA	60	3.00	4.00	0.83
CS124	DA	61	3.00	3.00	0.83
CS124	DA	62	3.00	4.00	0.83
CS124	DA	68	4.00	4.00	0.83
CS124	DA	77	3.00	3.00	0.83
CS124	DA	78	3.00	3.00	0.83
CS124	DA	84	3.00	3.00	0.83
CS124	DC	65	0.50	1.00	0.83
CS124	DC	83	3.00	4.00	0.83
CS124	FJ	5	3.00	3.00	0.83
CS124	FL	1	3.00	3.00	0.83
CS124	FO	2	4.00	4.00	0.83
CS124	GA	1	3.00	3.31	0.83
CS124	GE	1	3.00	3.00	0.83
CS124	GG	5	3.00	3.43	0.83
CS124	GG	6	3.00	4.00	0.83
CS124	GG	7	4.00	4.00	0.83
CS124	GG	8	4.00	4.00	0.83
CS124	GK	1	3.00	4.00	0.83
CS125	AB	21	6.00	6.00	1.17
CS125	AB	22	6.00	6.00	1.17
CS125	AB	24	3.00	3.00	1.17
CS125	AD	27	3.00	3.00	1.17
CS125	AG	22	3.00	3.00	1.17
CS125	AG	23	3.00	3.00	1.17
CS125					

SLAB REPLACEMENT SCHEDULE (CONTINUED)

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL J ON SHEET CS501.

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS110	LK	69	7.80	12.50	0.67
CS110	LM	36	12.50	15.00	0.67
CS110	LN	39	12.50	15.00	0.67
CS110	LO	49	12.50	17.70	0.67
CS110	LP	59	13.30	18.00	0.67
CS113	HA	21	12.50	15.00	0.83
CS113	HB	21	12.50	15.00	0.83
CS113	HC	11	12.50	15.00	0.83
CS113	HD	12	12.50	15.00	0.83
CS113	HE	13	12.50	15.00	0.83
CS113	HF	14	12.50	15.00	0.83
CS113	IA	5	8.20	15.00	0.83
CS113	IB	6	10.89	15.00	0.83
CS113	IC	7	12.50	15.00	0.83
CS113	ID	5	12.50	15.00	0.83
CS113	IE	6	12.50	15.00	0.83
CS113	IF	9	12.50	15.00	0.83
CS113	IG	10	12.50	15.00	0.83
CS113	IH	2	12.50	15.00	0.83
CS113	II	10	12.50	15.00	0.83
CS113	IE	14	12.50	15.00	0.83
CS113	IF	15	12.50	15.00	0.83
CS113	IG	16	12.50	15.00	0.83
CS113	IH	10	12.50	15.00	0.83
CS113	II	6	12.50	15.00	0.83
CS113	IF	6	12.50	15.00	0.83
CS113	IG	6	12.50	15.00	0.83
CS113	IH	9	12.50	15.00	0.83
CS113	II	1	12.50	15.00	0.83
CS113	IF	2	12.50	15.00	0.83
CS113	IG	3	12.50	15.00	0.83
CS123	CK	24	12.50	15.00	0.83
CS123	CQ	10	12.50	15.00	0.83
CS123	CQ	23	12.50	15.00	0.83
CS123	CR	7	12.50	15.00	0.83
CS123	CR	24	12.50	15.00	0.83
CS123	CR	25	12.50	15.00	0.83
CS123	CS	30	12.50	15.00	0.83
CS123	CS	31	12.50	15.00	0.83
CS123	CT	1	9.20	12.50	0.83
CS123	CT	2	10.00	12.50	0.83
CS123	CU	37	12.50	15.00	0.83
CS123	CX	5	12.50	15.00	0.83
CS123	CX	18	12.50	15.00	0.83
CS123	CZ	8	12.50	15.00	0.83
CS123	DA	13	12.50	15.00	0.83
CS123	DA	28	12.50	15.00	0.83
CS123	DA	29	12.50	15.00	0.83
CS123	DA	33	12.50	15.00	0.83
CS123	ED	3	12.50	15.00	0.83
CS123	EE	7	12.50	15.00	0.83
CS123	EG	4	10.64	15.00	0.83
CS123	EG	5	4.15	15.00	0.83
CS123	EH	2	12.50	15.00	0.83
CS123	EI	2	13.37	19.16	0.83
CS123	EI	3	7.48	15.00	0.83
CS123	FE	3	12.09	20.16	0.83
CS123	FG	1	12.50	15.00	0.83
CS123	FG	2	12.50	15.00	0.83
CS123	FG	3	12.50	15.00	0.83
CS123	FG	4	12.50	15.00	0.83
CS123	FG	5	12.50	15.00	0.83
CS123	FH	2	12.50	15.00	0.83
CS123	FH	3	12.50	15.00	0.83
CS123	FH	4	12.50	15.00	0.83
CS123	FH	5	12.50	15.00	0.83
CS123	FH	6	12.50	15.00	0.83
CS123	FI	4	12.50	15.00	0.83
CS124	CZ	39	12.50	15.00	0.83
CS124	CZ	50	12.50	15.00	0.83
CS124	CZ	52	12.50	15.00	0.83
CS124	CZ	63	12.50	15.00	0.83
CS124	DA	40	12.50	15.00	0.83
CS124	DA	63	12.50	15.00	0.83
CS124	DA	81	12.50	15.00	0.83
CS124	FJ	4	12.50	15.00	0.83
CS124	FK	1	12.50	15.00	0.83

SLAB REPLACEMENT SCHEDULE (CONTINUED)

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL J ON SHEET CS501.

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS124	FK	2	12.50	15.00	0.83
CS124	FK	3	12.50	15.00	0.83
CS124	FL	2	12.50	15.00	0.83
CS124	FL	3	12.50	15.00	0.83
CS124	FR	1	4.66	13.34	0.83
CS124	GH	6	12.50	15.00	0.83
CS124	GH	7	12.50	15.00	0.83
CS124	GH	8	12.50	15.00	0.83
CS124	GI	7	12.50	15.00	0.83
CS124	GI	8	12.50	15.00	0.83
CS124	GJ	7	12.50	15.00	0.83
CS124	GK	6	12.50	15.00	0.83
CS124	GK	7	12.50	15.00	0.83
CS124	GL	6	12.50	15.00	0.83
CS124	GL	7	12.50	15.00	0.83
CS125	AC	20	12.50	15.00	1.17
CS125	AC	21	12.50	15.00	1.17
CS125	AC	27	12.50	15.00	1.17
CS125	AC	28	9.40	12.50	1.17
CS125	AF	30	12.50	12.50	1.17
CS125	AG	24	12.50	15.00	1.17
CS125	AG	29	8.20	12.50	1.17
CS125	AI	28	9.40	12.50	1.17
CS125	AI	30	12.50	12.50	1.17
CS125	AK	24	12.50	15.00	1.17
CS125	AK	25	12.50	15.00	1.17
CS125	AK	28	9.40	12.50	1.17
CS125	AL	24	12.50	15.00	1.17
CS125	AL	28	9.40	12.50	1.17
CS125	AN	23	12.50	15.00	1.17
CS125	BC	26	12.50	15.00	1.17
CS125	BK	28	9.60	12.50	1.17
CS125	BL	29	6.50	12.50	1.17
CS125	BN	29	6.50	12.50	1.17
CS125	CA	27	12.50	15.00	0.83
CS125	CA	28	12.50	15.00	0.83
CS125	CB	27	12.50	15.00	0.83
CS125	CB	28	12.50	15.00	0.83
CS125	CB	32	12.50	15.00	0.83
CS125	CE	18	12.50	15.00	0.83
CS125	CE	28	12.50	15.00	0.83
CS125	CE	29	12.50	15.00	0.83
CS125	CE	6	12.50	15.00	0.83
CS125	CJ	9	12.50	15.00	0.83
CS126	CE	46	12.50	15.00	0.83
CS126	CE	47	12.50	15.00	0.83
CS126	CE	53	12.50	15.00	0.83
CS126	CE	54	12.50	15.00	0.83
CS126	CF	50	12.50	15.00	0.83
CS126	CF	43	12.50	15.00	0.83
CS126	CF	44	12.50	15.00	0.83
CS126	CF	53	12.50	15.00	0.83
CS126	CF	54	12.50	15.00	0.83
CS126	CI	52	12.50	15.00	0.83
CS126	CP	85	12.50	15.00	0.83
CS127	AB	1	12.50	15.00	1.17
CS127	AD	7	12.50	15.00	1.17
CS127	AD	8	12.50	15.00	1.17
CS127	AD	17	12.50	15.00	1.17
CS127	AE	10	12.50	15.00	1.17
CS127	AF	10	12.50	15.00	1.17
CS127	AG	8	12.50	15.00	1.17
CS127	AG	9	12.50	15.00	1.17
CS127	AG	15	12.50	15.00	1.17
CS127	AH	2	12.50	15.00	1.17
CS127	AH	6	12.50	15.00	1.17
CS127	AH	7	12.50	15.00	1.17
CS127	AH	8	12.50	15.00	1.17
CS127	AH	13	12.50	15.00	1.17
CS127	AH	14	12.50	15.00	1.17
CS127	AH	15	12.50	15.00	1.17
CS127	AH	18	10.30	12.50	1.17
CS127	AI	1	12.50	15.00	1.17
CS127	AI	3	12.50	15.00	1.17
CS127	AI	8	12.50	15.00	1.17
CS127	AI	9	12.50	15.00	1.17
CS127	AI	10	12.50	15.00	1.17

SLAB REPLACEMENT SCHEDULE (CONTINUED)

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL J ON SHEET CS501.

SHEET	COLUMN	ROW	W (FT)	L (FT)	D (FT)
CS127	AJ	11	12.50	15.00	1.17
CS127	AJ	14	12.50	15.00	1.17
CS127	AJ	15	12.50	15.00	1.17
CS127	AJ	17	12.50	15.00	1.17
CS127	AJ	16	12.50	15.00	1.17
CS127	AJ	18	10.20	12.50	1.17
CS127	AJ	5	12.50	15.00	1.17
CS127	AJ	6	12.50	15.00	1.17
CS127	AK	6	12.50	15.00	1.17
CS127	AK	19	12.50	12.50	1.17
CS127	AM	17	7.30	12.50	1.17
CS127	AS	18	7.90	12.50	1.17
CS127	BB	15	12.50	15.00	1.17
CS127	BB	16	12.50	15.00	1.17
CS127	BC	11	12.50	15.00	1.17
CS127	BC	14	12.50	15.00	1.17
CS127	BD	12	12.50	15.00	1.17
CS127	BE	1	12.50	15.00	1.17
CS127	BE	2	12.50	15.00	1.17
CS127	BE	3	12.50	15.00	1.17
CS127	BE	7	12.50	15.00	1.17

SEALANT REPLACEMENT SCHEDULE

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL C ON SHEET CS502.

SHEET	COLUMN	ROW	W (FT)	L (FT)	NOTE
CS102	IA-IO	18-25	0.08	2422.14	REFACE
CS104	JA-JF	13-15	0.04	334.70	
CS107	KA-KD	7-8	0.17	50.00	
CS107	KC-KD	5-6	0.08	40.00	
CS107	KC-KD	9-10	0.08	40.00	
CS107	KC-KE	1-10	0.04	899.00	REFACE
CS107	KE-KF	6	0.08	20.00	
CS107	KE-KJ	4-5	0.08	90.00	
CS107	KK-KL	8-10	0.08	60.00	
CS108	KA-KB	31-32	0.08	25.00	
CS108	KA-KC	15-16	0.08	37.50	
CS108	KB-KD	35-36	0.08	37.50	
CS108	KC-KD	11-19	0.08	160.00	
CS108	KC-KL	11-51	0.04	3967.40	REFACE
CS108	KD-KE	12	0.08	20.00	
CS108	KD-KE	21	0.08	20.00	
CS108	KD-KE	25-26	0.08	40.00	
CS108	KD-KE	29-31	0.08	60.00	
CS108	KD-KE	34	0.08	20.00	
CS108	KD-KE	36-47	0.06	225.00	
CS108	KI-KJ	12-15	0.08	80.00	
CS108	KI-KJ	29-31	0.08	60.00	
CS108	KI-KJ	33-37	0.08	80.00	
CS108	KI-KJ	40	0.08	20.00	
CS108	KI-KJ	43	0.08	20.00	
CS108	KI-KJ	47-48	0.08	70.00	
CS108	KI-KK	19-20	0.08	37.50	
CS108	KI-KK	26-28	0.08	70.00	
CS108	KJ-KL	22-23	0.08	37.50	
CS109	KA-KH	63-64	0.08	220.00	
CS109	KA-KL	30-52	0.04	4924.83	REFACE
CS109	KB-KF	56	0.08	80.00	
CS109	KC-KD	58-61	0.08	52.50	
CS109	KC-KF	57	0.08	60.00	
CS109	KE-KF	58-61	0.08	72.50	
CS109	KE-KF	61-62	0.08	40.00	
CS109	KE-KF	68	0.08		

AC PARTIAL DEPTH PATCH SCHEDULE

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL D ON SHEET CS502.

SHEET	SECTION	MIN W. (FT)	L (FT)	D (FT)
CG128-CG131	R17-17A	1.15	1676.408	0.33
CG128-CG131	R17-17B	1.15	647.4064	0.33
CG131-CG133	R17-19A	1.15	1743.38	0.33
CG131-CG133	R17-19B	1.15	272.592	0.33
CG133-CG134	R17-22A	1.15	879.676	0.33
CG133-CG134	R17-22B	1.15	473.616	0.33
CG121-CG122	TE-10A	1.15	459.384	0.33
CG120-CG121	TE-11A	1.15	159.712	0.33
CG118-CG119	TE-13A	1.15	50.148	0.33
CG107 & CG117-CG118	TE-14A	1.15	9.276	0.33
CG107 & CG118	TE-14B	1.15	6.888	0.33
CG113-CG117	TE-15A	1.15	81.312	0.33
CG111 & CG122	TE-9A	1.15	526.6944	0.33
CG116 & CG126	TF-2	1.15	54.804	0.33

AC FULL DEPTH PATCH SCHEDULE

1. PROVIDE REPAIRS IN ACCORDANCE WITH DETAIL D ON SHEET CS502 AND DEPTH NOTED BELOW.

SHEET	SECTION	A (SF)	D (FT)
CG128-CG131	R17-17B	1.15	1.00
CG107 & CG117-CG118	TE-14A	1.15	0.17

NEW WORK SCHEDULE SUMMARY

- ITEMS OF NEW WORK INDICATED ON SCHEDULE WERE OBTAINED BY FIELD SURVEY. FIELD VERIFY EXACT LOCATION OF REPAIR ITEMS AND OBTAIN CONCURRENCE OF LOCATION WITH THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK.
- ANY DISCREPANCY BETWEEN THESE DRAWINGS AND THE ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE COMMENCING WORK.
- TOTALS DO NOT DISTINGUISH BETWEEN BASE BID WORK AND OPTION WORK.

TYPE OF REPAIR	LENGTH (LF)	AREA (SF)	VOL. (CF)	NOTE
SPALL REPAIRS		800	200	
FULL DEPTH REPAIRS		3750	3400	
SLAB REPLACEMENT		45550	40950	
SEALANT REPLACEMENT		49200	150	*VOLUME OF ANTICIPATED SEALANT. 36,333 LF OF JOINTS MUST BE REFACED.
CONCRETE CRACK SEALING		350	5	*VOLUME OF ANTICIPATED SEALANT.
AC CRACK SEALING 63900		50		
AC PARTIAL DEPTH PATCHING		7050	1350	
AC FULL DEPTH PATCH		3	2	

CS604

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER	NASA SAFETY
SUBMITTED BY	FIRE PROTECTION
PROJECT MANAGER	

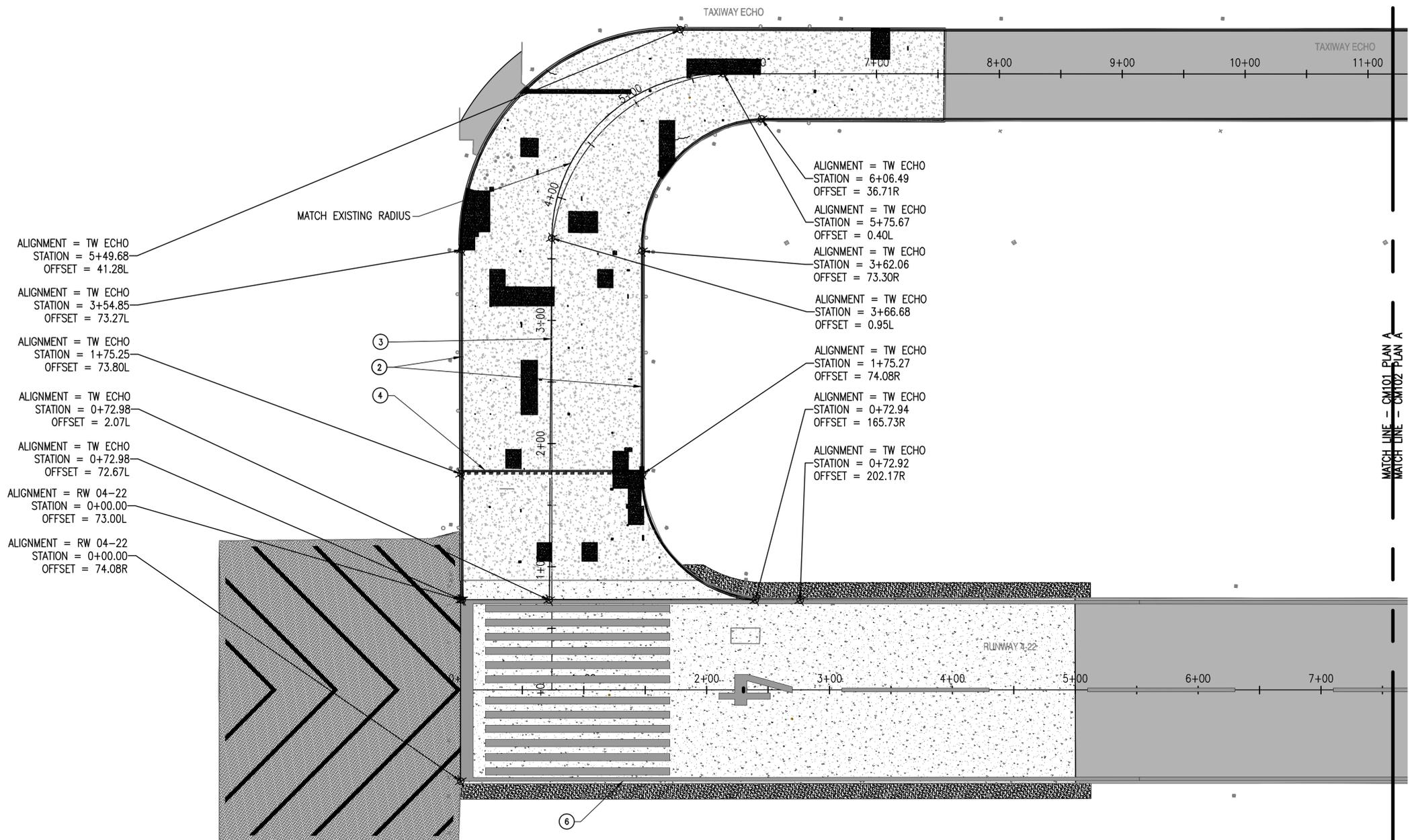
CONSTRUCTION MANAGEMENT	O & M
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ENGINEERING APPROVAL	BRANCH APPROVAL
ENGINEERING GROUP LEADER	BRANCH HEAD

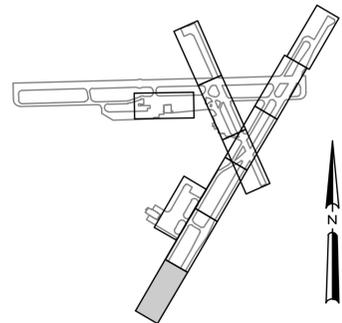
GRAPHIC SCALE	AUTOCAD - RELEASE 2010
NOT TO SCALE	FILE NAME: '1-1368232-CS6

SCALE	PROJECT NUMBER: 1368232
NOT TO SCALE	DR. STH
	DATE:
	CK. LMH
	REVISED:

WALLOPS AIRFIELD REPAIR PROJECT		DRAWING NO.
CoF PHASE I		
NEW WORK SCHEDULE		17330
SHEET 143 OF 171		



A MARKING PLAN (1 OF 11)
1" = 50'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

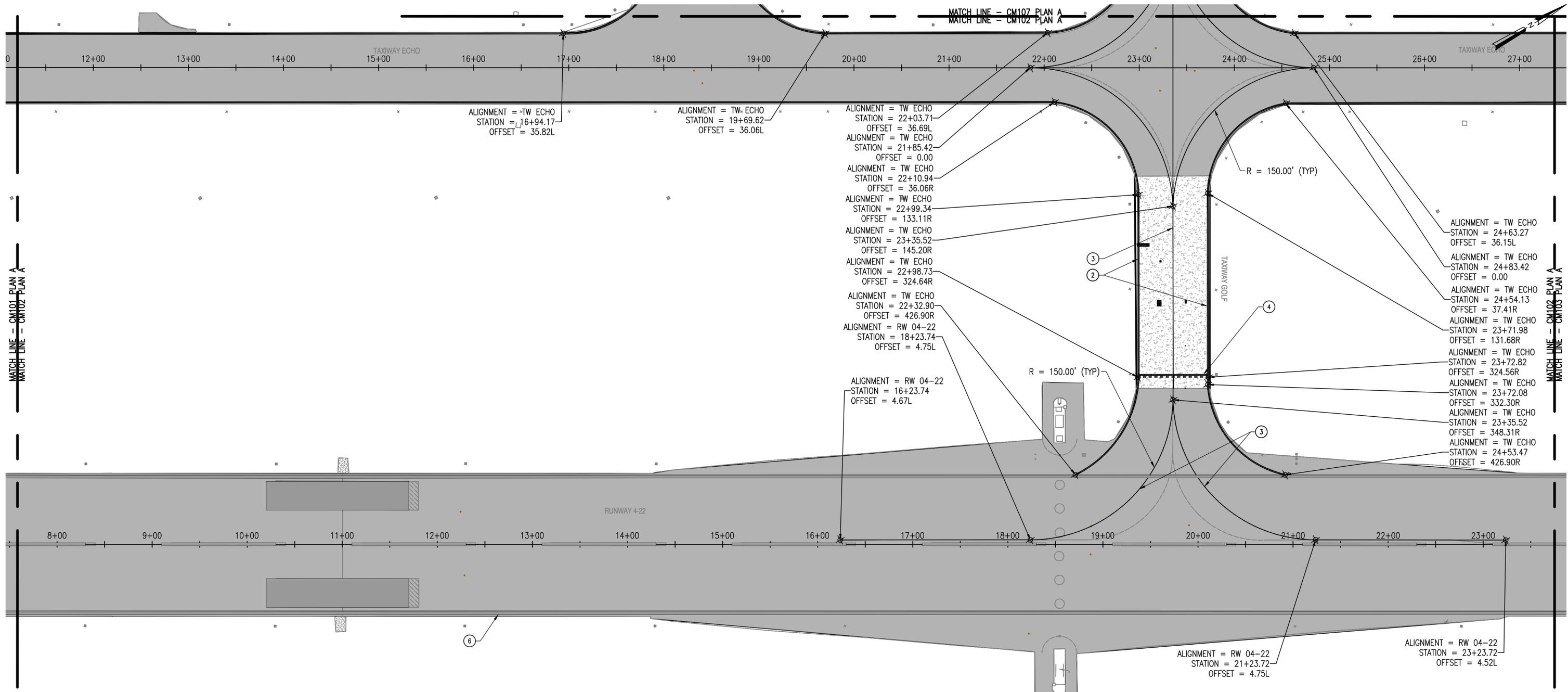
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

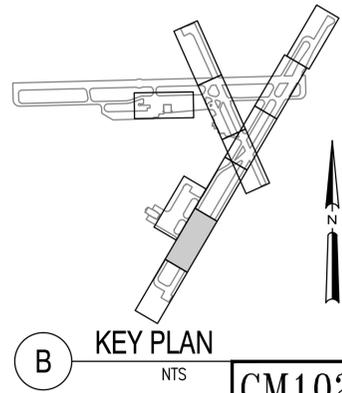
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-CM1

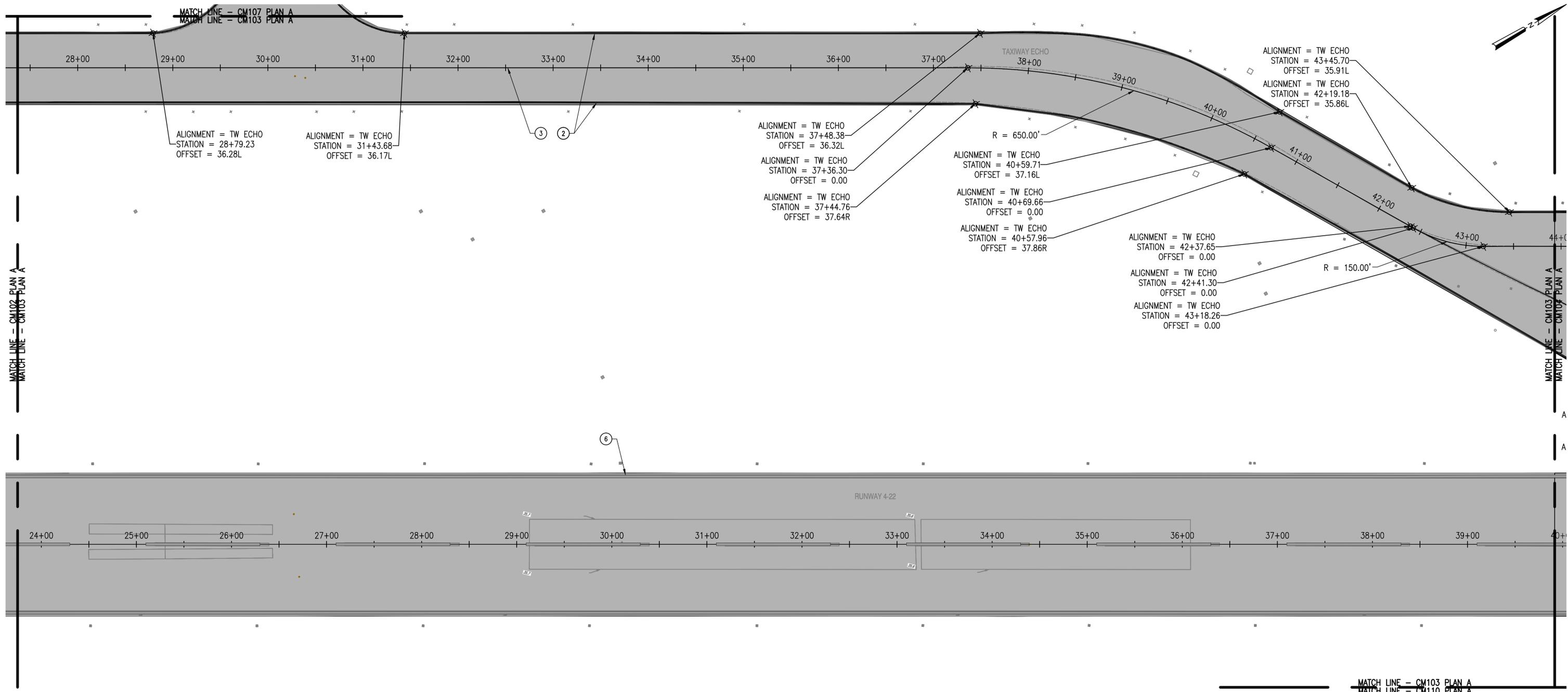
WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
MARKING PLAN
PROJECT NUMBER: 1368232
DRAWING NO. 17331



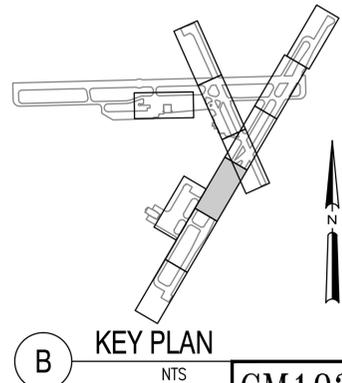
A MARKING PLAN (2 OF 11)
1" = 50'



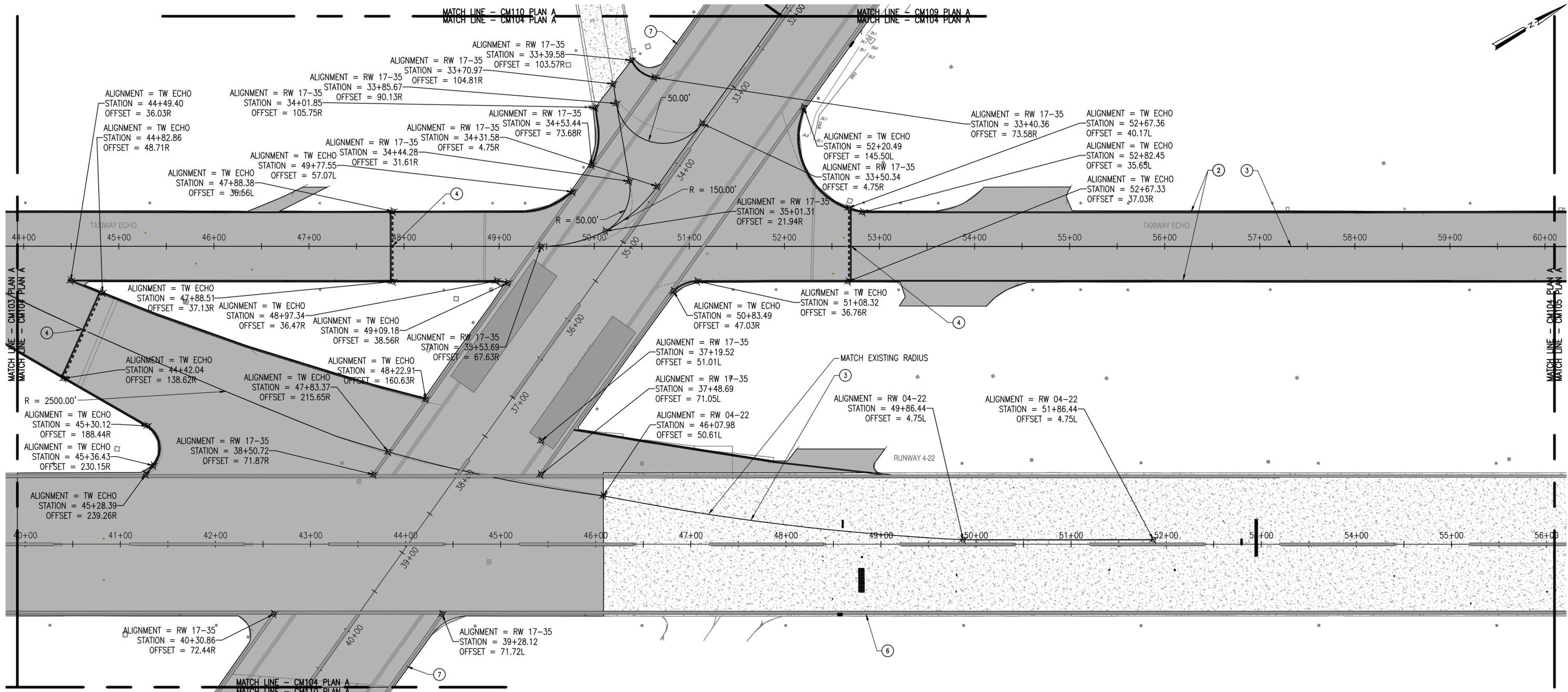
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337		DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I MARKING PLAN	
		SUBMITTED BY		PROJECT MANAGER		FIRE PROTECTION	O & M	BRANCH APPROVAL	BRANCH HEAD	SCALE	PROJECT NUMBER: 1368232	DRAWING NO. 17332	
AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-CM1												DR. STH CK. LMH	DATE: REVISED:



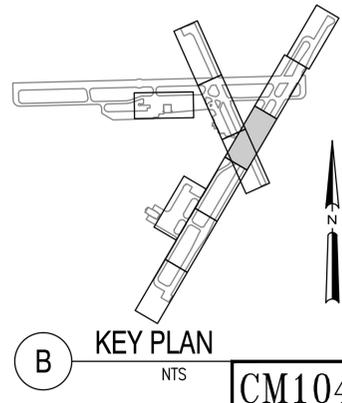
A MARKING PLAN (3 OF 11)
1" = 50'



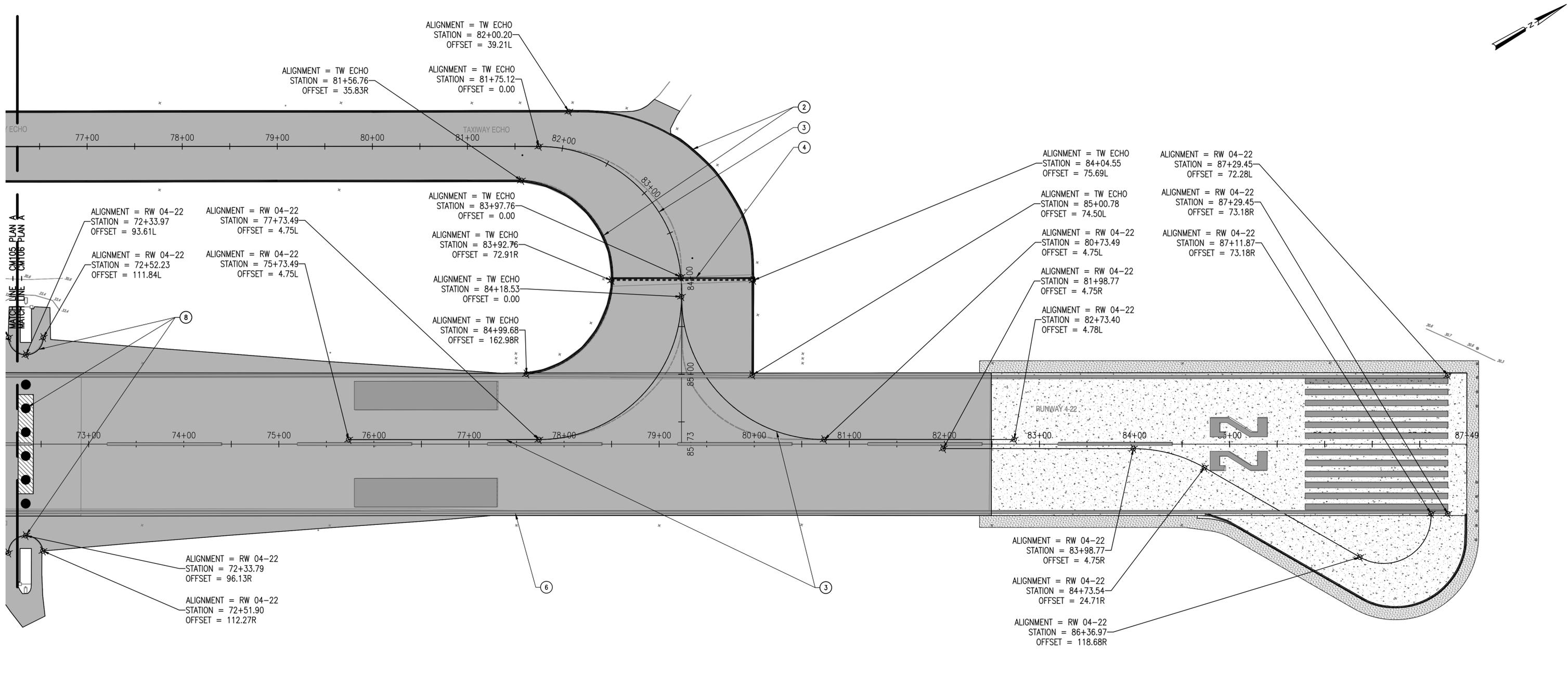
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I MARKING PLAN PROJECT NUMBER: 1368232 DR. STH DATE: CK. LMH REVISIONS:	DRAWING NO. 17333
						SUBMITTED BY	FIRE PROTECTION	O & M	BRANCH APPROVAL	1" = 50' 0' 50' 100'		
						PROJECT MANAGER			BRANCH HEAD	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-CM1 SCALE 1" = 50' SHEET 146 OF 171		



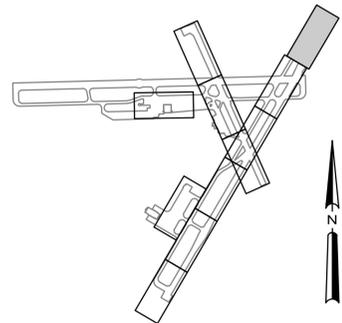
A MARKING PLAN (4 OF 11)
1" = 50'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337		DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I MARKING PLAN
		SUBMITTED BY		PROJECT MANAGER		FIRE PROTECTION	O & M	BRANCH APPROVAL	BRANCH HEAD	1" = 50' 0' 50' 100'	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-CM1	



A MARKING PLAN (6 OF 11)
1" = 50'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-CM1
SCALE
1" = 50'
SHEET 149 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
MARKING PLAN
PROJECT NUMBER: 1368232
DR. STH
CK. LMH
DATE:
REVISED:
DRAWING NO.
17336

CM106



NORTHING = 3877087.89
EASTING = 12356362.99

NORTHING = 3877039.49
EASTING = 12356334.22

NORTHING = 3876997.80
EASTING = 12356309.74

NORTHING = 3877131.47
EASTING = 12356388.22

NORTHING = 3877182.16
EASTING = 12356418.01

NORTHING = 3877236.63
EASTING = 12356449.74

NORTHING = 3877297.48
EASTING = 12356485.81

9

REESTABLISH EXISTING PAVEMENT MARKINGS WHERE ISOLATED REPAIRS ARE MADE, TYP.

ALIGNMENT = TW ECHO
STATION = 17+96.48
OFFSET = 112.86L

ALIGNMENT = TW ECHO
STATION = 18+74.79
OFFSET = 112.85L

ALIGNMENT = TW ECHO
STATION = 23+35.42
OFFSET = 149.95L

ALIGNMENT = TW ECHO
STATION = 22+98.94
OFFSET = 128.47L

ALIGNMENT = TW ECHO
STATION = 23+71.68
OFFSET = 128.52L

ALIGNMENT = TW ECHO
STATION = 30+54.58
OFFSET = 97.40L

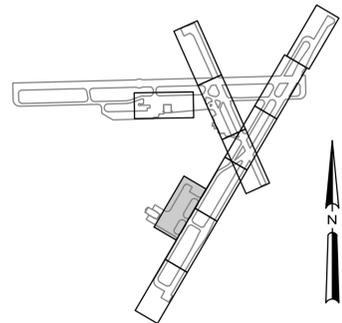
ALIGNMENT = TW ECHO
STATION = 29+66.45
OFFSET = 96.92L

TAMMAM HOTEL

MATCH LINE - CM107 PLAN A
MATCH LINE - CM102 PLAN A

MATCH LINE - CM107 PLAN A
MATCH LINE - CM103 PLAN A

A MARKING PLAN (7 OF 11)
1" = 50'



B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
0' 50' 100'

AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-CM1

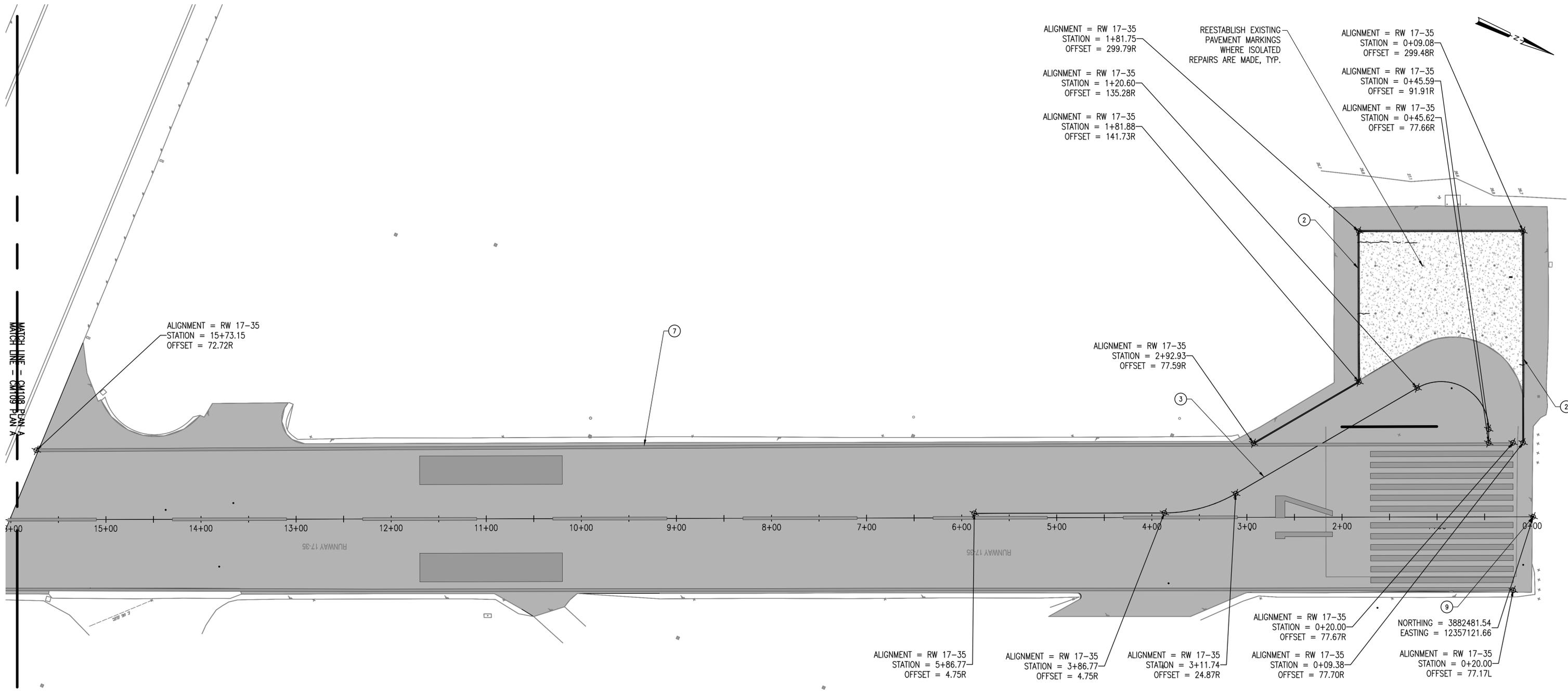
SCALE
1" = 50'
SHEET 150 OF 171

Wallops Airfield Repair Project
CoF Phase I
MARKING PLAN

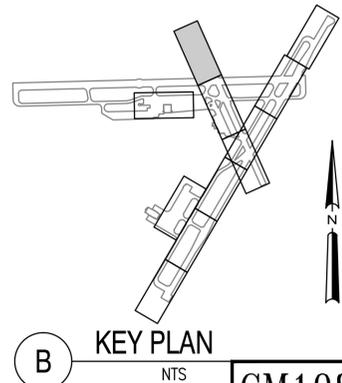
PROJECT NUMBER: 1368232
DR. STH DATE:
CK. LMH REVISED:

DRAWING NO.
17337

CM107



A MARKING PLAN (8 OF 11)
1" = 50'



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
0' 50' 100'

AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-CM1

SCALE
1" = 50'

SHEET 151 OF 171

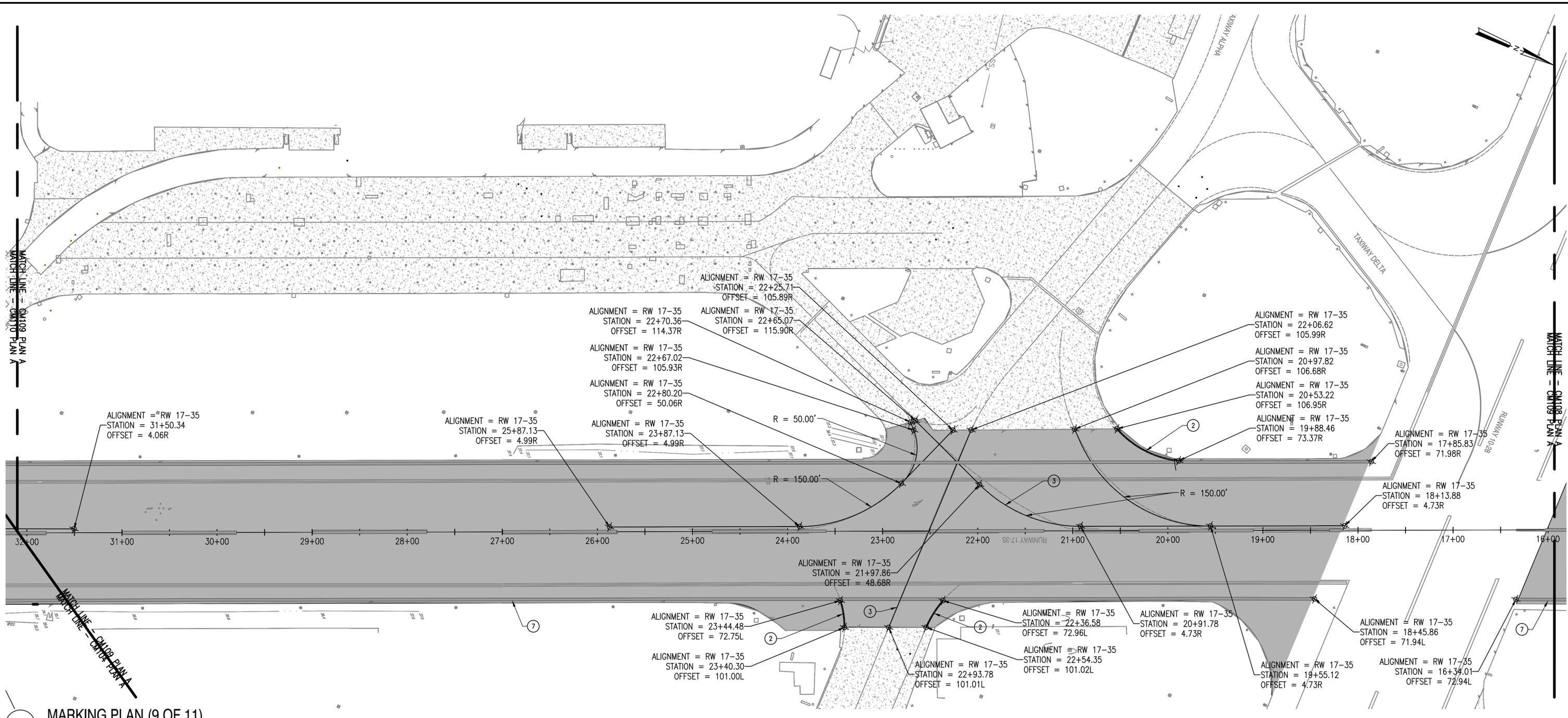
Wallops Airfield Repair Project
CoF Phase I
MARKING PLAN

PROJECT NUMBER: 1368232
DR. STH
CK. LMH

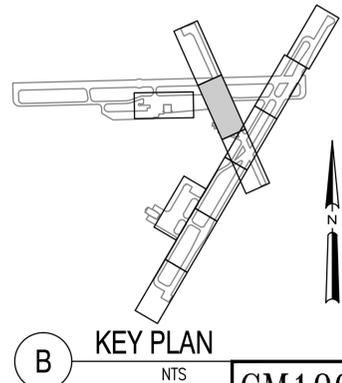
DATE:
REVISED:

DRAWING NO.
17338

CM108



A MARKING PLAN (9 OF 11)
1" = 50'



B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
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WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

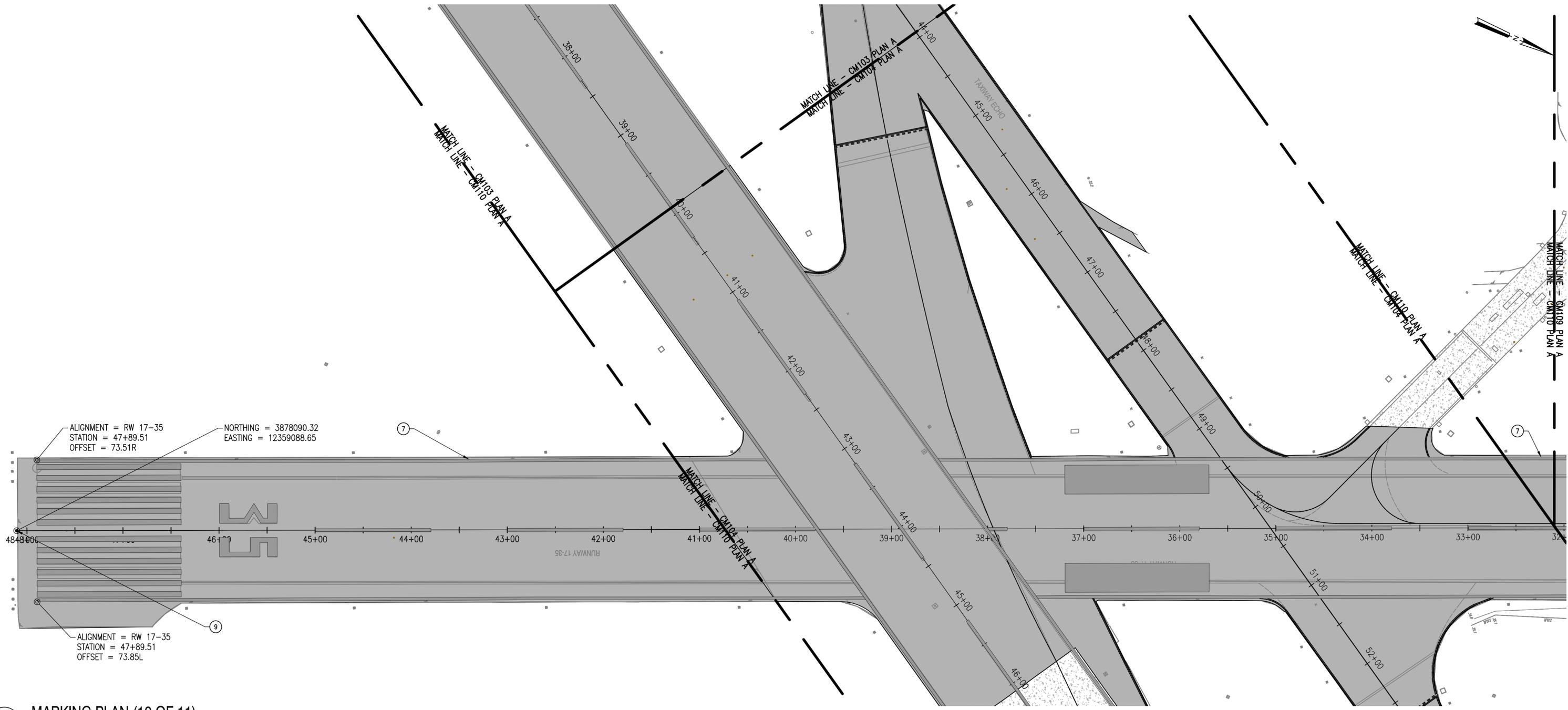
CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-CM1
SCALE
1" = 50'
SHEET 152 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
MARKING PLAN
PROJECT NUMBER: 1368232
DR. STH
CK. LMH
DATE:
REVISED:
DRAWING NO.
17339

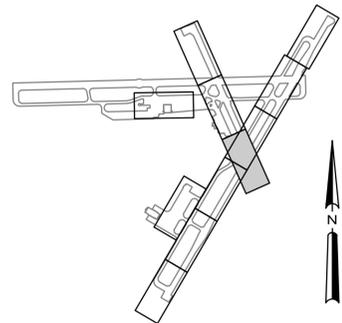
CM109



ALIGNMENT = RW 17-35
 STATION = 47+89.51
 OFFSET = 73.51R
 NORTHING = 3878090.32
 EASTING = 12359088.65

ALIGNMENT = RW 17-35
 STATION = 47+89.51
 OFFSET = 73.85L

A MARKING PLAN (10 OF 11)
 1" = 50'



B KEY PLAN
 NTS
CM110

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 GODDARD SPACE FLIGHT CENTER
 WALLOPS FLIGHT FACILITY
 WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
 SUBMITTED BY
 PROJECT MANAGER

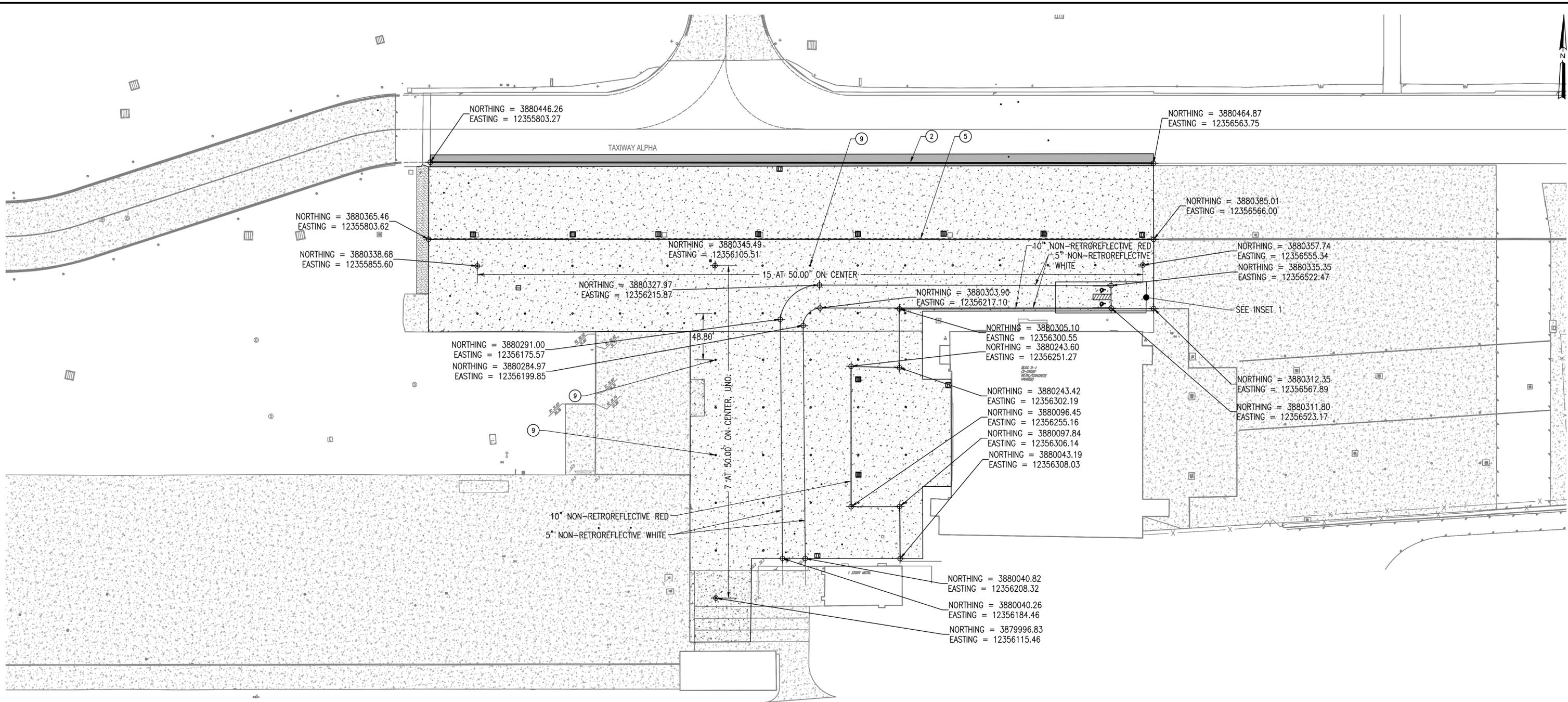
NASA SAFETY
 FIRE PROTECTION

CONSTRUCTION MANAGEMENT
 O & M

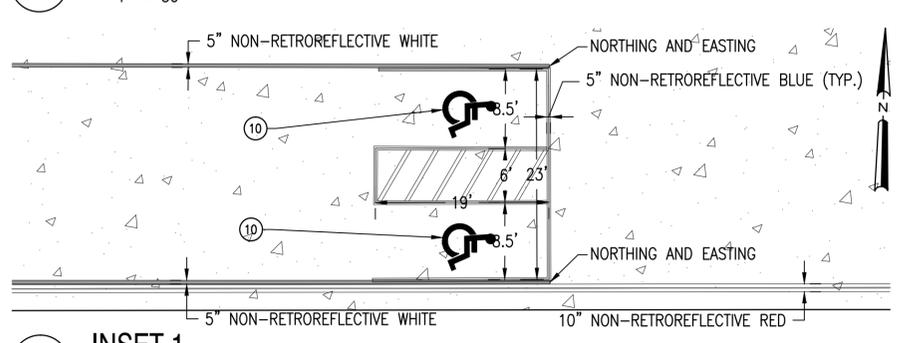
ENGINEERING APPROVAL
 ENGINEERING GROUP LEADER
 BRANCH APPROVAL
 BRANCH HEAD

GRAPHIC SCALE
 1" = 50'
 AUTOCAD - RELEASE 2010
 FILE NAME: ...1368232-CM1
 SCALE
 1" = 50'
 SHEET 153 OF 171

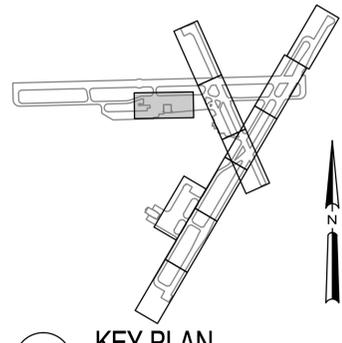
WALLOPS AIRFIELD REPAIR PROJECT
 CoF PHASE I
 MARKING PLAN
 PROJECT NUMBER: 1368232
 DR. STH
 CK. LMH
 DATE:
 REVISED:
 DRAWING NO.
17340



A MARKING PLAN (11 OF 11)
1" = 50'



B INSET 1
1" = 10'



C KEY PLAN

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I MARKING PLAN PROJECT NUMBER: 1368232 DR. STH DATE: CK. LMH REVISIONS:	DRAWING NO. 17341
						SUBMITTED BY	FIRE PROTECTION	O & M	BRANCH APPROVAL	1"=50' 0' 50' 100' AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-CM1		
						PROJECT MANAGER			BRANCH HEAD	SCALE 1" = 50' SHEET 154 OF 171		

TYPICAL PAINT MARKING NOTES

1. ALL STRIPPING SHALL BE RETRO-REFLECTIVE, UNLESS NOTED OTHERWISE.
2. ALL MARKINGS ON CONCRETE PAVEMENT SHALL HAVE A 6 INCH NON RETRO-REFLECTIVE BLACK BORDER.

ARRESTING GEAR RADIUS MARKING NOTE

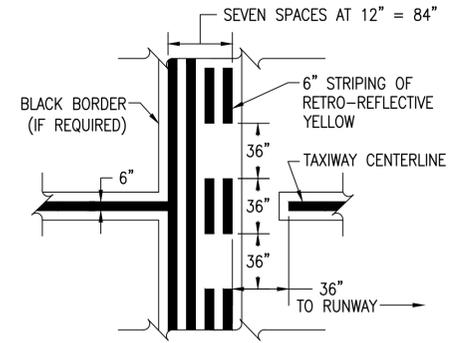
1. RADIUS MARKING SHALL BE CENTERED ALONG CABLE AXIS WHEN CABLE IS RIGGED FOR ENGAGEMENT. CONFIRM EXACT LOCATION WITH CONTRACTING OFFICER.

DESIGNATION NUMERAL NOTES

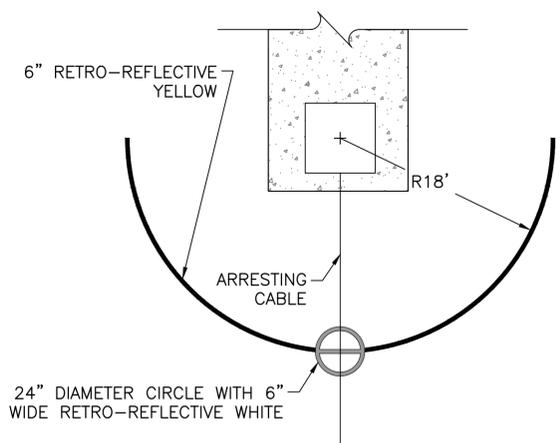
1. ALL NUMERALS AND LETTERING SHALL BE HORIZONTALLY SPACED EXCEPT THE NUMERALS IN NUMBER ELEVEN WHICH SHALL BE AS SHOWN.
2. ALL NUMERALS AND LETTERS SHALL BE RETRO-REFLECTIVE WHITE

STATIC GROUND MARKING NOTES

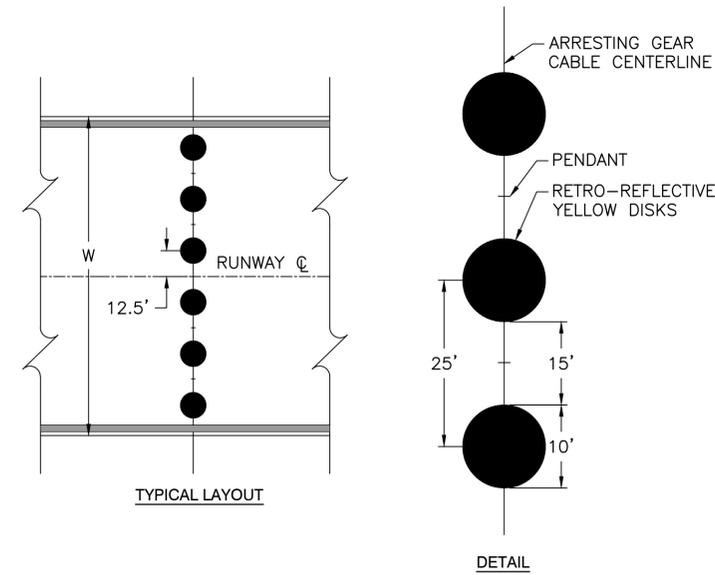
1. GROUNDING POINTS LOCATED IN PAVEMENT AS IDENTIFIED.
2. UPON INSTALLATION OF GROUND ROD, THE CONTRACTOR MUST TEST PER SPECIFICATIONS. TEST RESULTS MUST BE STENCILED ON THE PCC AT THE "OHMIC TEST" LOCATION AND A PRINTED COPY OF THE RESULTS MUST BE PROVIDED TO THE CONTRACTING OFFICER.



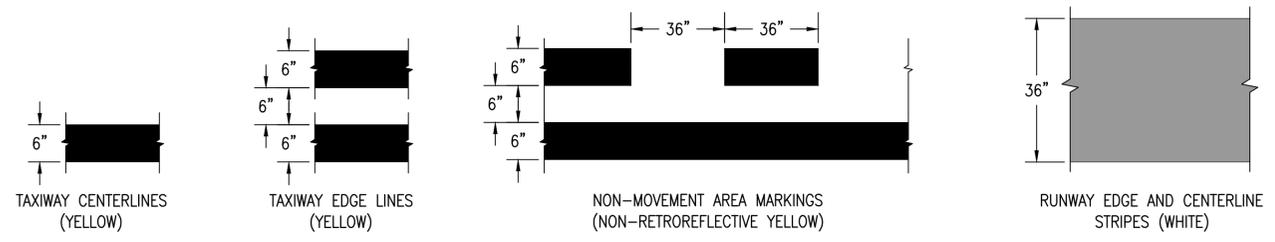
A HOLD SHORT LINE
NTS



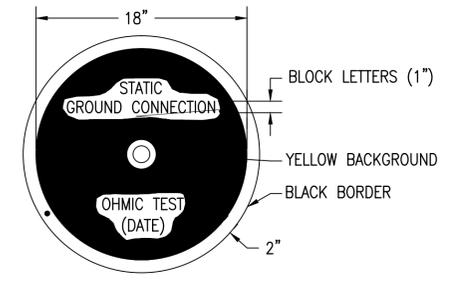
B ARRESTING GEAR RADIUS MARKING
NTS



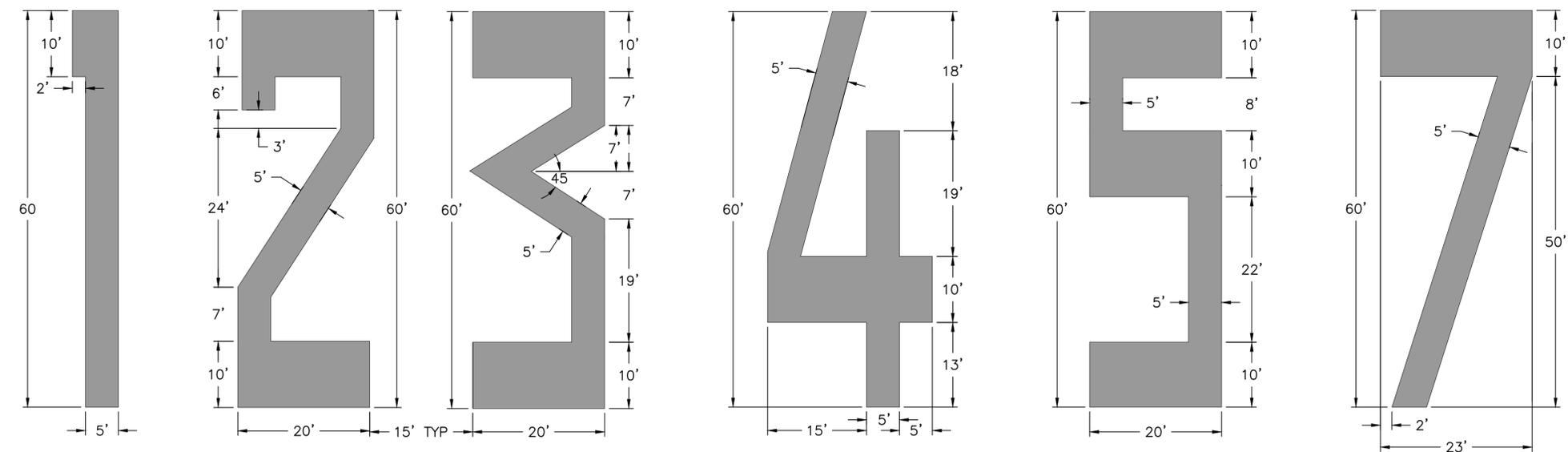
C ARRESTING GEAR MARKINGS
NTS



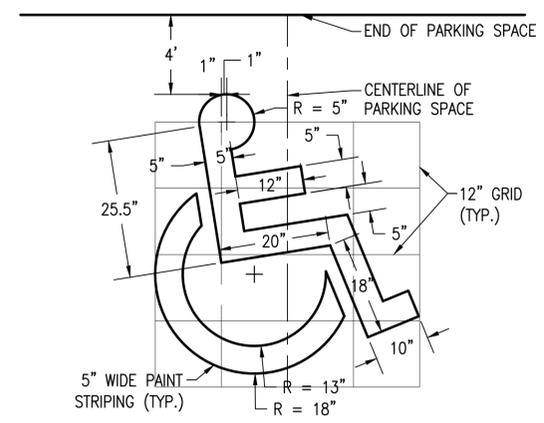
D TYPICAL PAVEMENT MARKINGS
NTS



F TYPICAL STATIC GROUND MARKING
NTS



E DESIGNATION NUMERAL MARKINGS
NTS



G HANDICAP PARKING SYMBOL
NTS

CM501

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
NOT TO SCALE
AUTOCAD - RELEASE 2010
FILE NAME: '1-1368232-CM5

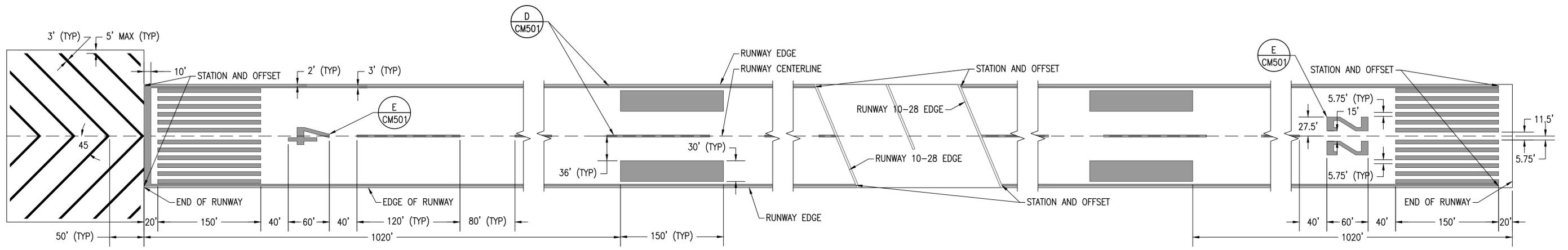
WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
MARKING DETAILS
PROJECT NUMBER: 1368232
DRAWING NO. 17342

NONPRECISION APPROACH NOTES

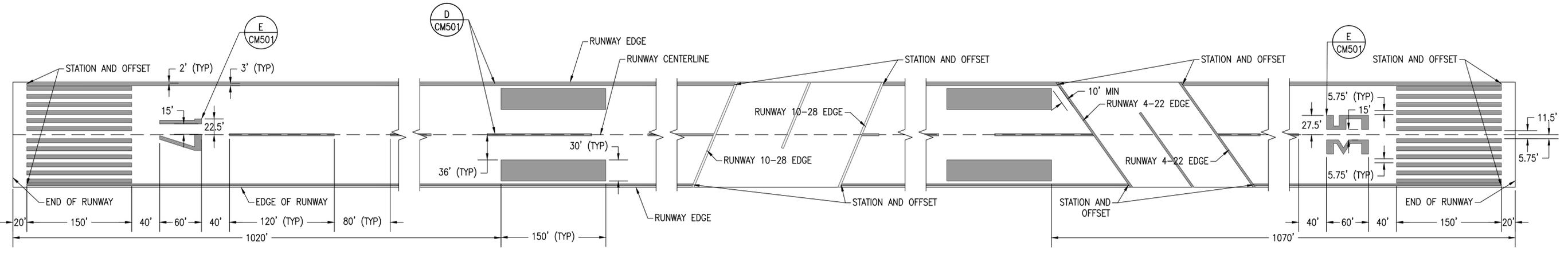
1. ALL MARKINGS SHALL BE RETRO-REFLECTIVE WHITE.
2. MAKE UP DIFFERENCES FOR CENTERLINE LENGTH NEAR MIDDLE OF RUNWAY.

OVERRUN MARKING NOTE

1. ALL MARKINGS SHALL BE NONRETRO-REFLECTIVE YELLOW.



A RUNWAY 4-22 MARKING DETAILS (NONPRECISION APPROACH)
NTS



B RUNWAY 17-35 MARKING DETAILS (NONPRECISION APPROACH)
NTS

CM502

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
NOT TO SCALE
AUTOCAD - RELEASE 2010
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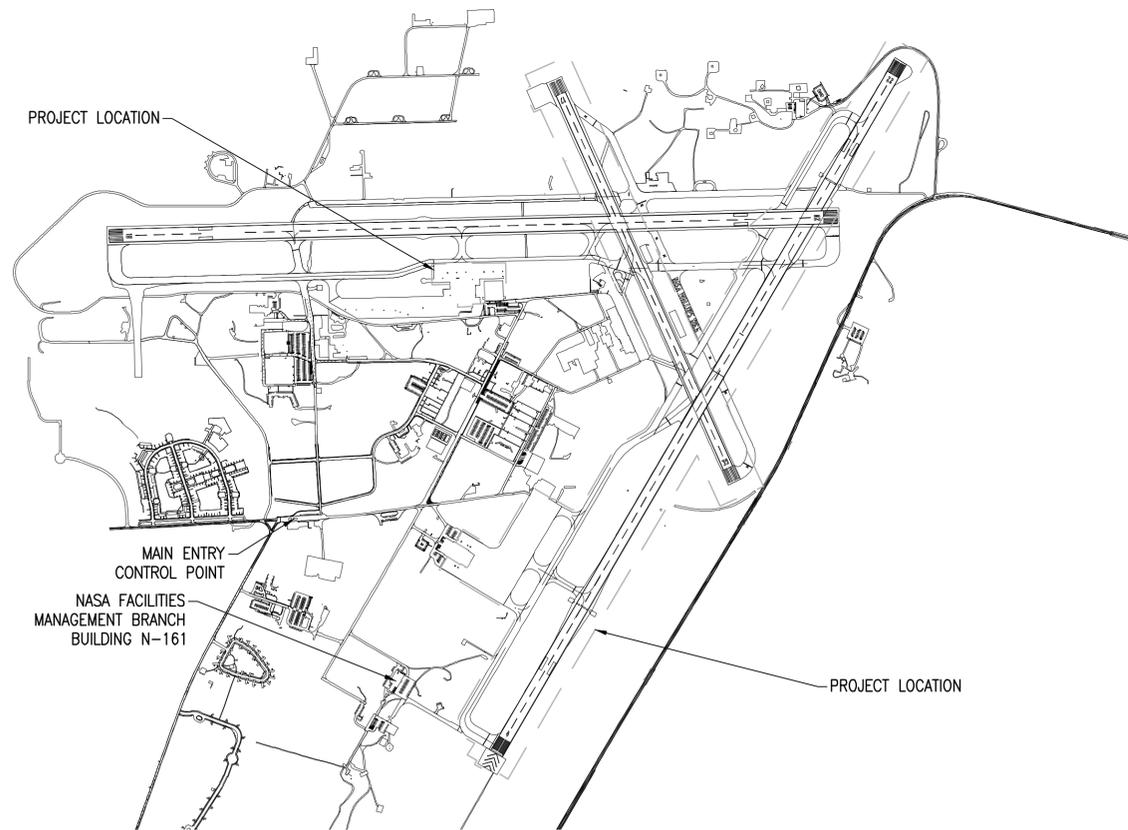
WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
MARKING DETAILS
PROJECT NUMBER: 1368232
DRAWING NO. 17343
SHEET 156 OF 171

WALLOPS AIRFIELD REPAIR PROJECT, CoF PHASE I

(A-2B1, 2B2, 2C, 6, 7, A159-1, 2, OR22-1, R4-7A, 7B, 8A, 8B, 9A, 9B, 11A, 11B, 13A, 13B, 15A, 15B, 16A, 16B, R17-17A, 17B, 19A, 19B, 22A, 22B, TE-9A, TF-1, 2, TG-1, 2, 3A, 3B, TH-1, 2, TE-10A, 11A, 12A, 13A, 14A, 14B, 15A, AND 16A)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 GODDARD SPACE FLIGHT CENTER
 WALLOPS FLIGHT FACILITY
 WALLOPS ISLAND, VIRGINIA

LIST OF EROSION AND SEDIMENT CONTROL SHEETS



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B LOCATION MAP
 1" = 1000'

ES001

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337		DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY <i>Julius C. Valentinis</i>	CONSTRUCTION MANAGEMENT <i>Nick Clayton</i>	ENGINEERING APPROVAL <i>[Signature]</i>	GRAPHIC SCALE 1" = 1000'	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I ESC COVER SHEET	
									SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. Valentinis</i>	O & M <i>[Signature]</i>	BRANCH APPROVAL <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES0
							PROJECT MANAGER			BRANCH HEAD <i>[Signature]</i>	SCALE NOT TO SCALE	DR. TP CK. LMH DATE: REVISED:	SHEET 157 OF 171

EROSION & SEDIMENT CONTROL MINIMUM STANDARDS **EROSION & SEDIMENT CONTROL MINIMUM STANDARDS (CONTINUED)** **EROSION & SEDIMENT CONTROL NARRATIVE (CONTINUED)**

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.

2. SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.

3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE (3) ACRES.
 B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE (3) ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

10. ALL STORM SEWER INLETS THAT ARE MADE OPERATIONAL DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

14. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

17. WHERE CONSTRUCTION VEHICLES ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DEPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

19. (CONTINUED)

B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

(1) DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT; OR

(2) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A 2-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS. ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A 2-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

(1) IMPROVE THE CHANNELS TO A CONDITION WHERE A 10-YEAR STORM WILL NOT OVERTOP THE BANKS AND A 2-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR

(2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;

(3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A 2-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A 10-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR

(4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENTS, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.

E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.

F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE/SHE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.

J. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL, AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
 THIS PROJECT CONSISTS OF ROUTINE ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE MAINTENANCE (ISOLATED CONCRETE REPAIRS, UNPAVED SHOULDER REGRADING, AND ASPHALT MILL AND OVERLAY) OF 82 ACRES. LAND DISTURBANCE DUE TO THIS CONSTRUCTION IS 82.6 ACRES. THE PROPOSED PROJECT WILL MAKE NO CHANGES TO EXISTING DRAINAGE PATTERNS NEAR HANGAR D-1 AND THE PROJECT WILL MAKE NO CHANGES TO THE IMPERVIOUS AREAS. SEDIMENT CONTROL FOR THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE POLICIES AND REQUIREMENTS OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK. THE TWO EROSION & SEDIMENT CONTROL MEASURES WILL BE INLET PROTECTION AND SILT FENCE AROUND THE AREAS OF DISTURBANCE.

EXISTING SITE CONDITIONS:
 THE EXISTING SITE IS GENERALLY DEVELOPED AND COVERED WITH IMPERVIOUS AIRFIELD PAVEMENT OR GRASSED OPEN SPACE DESIGNATED AS AN "OBJECT FREE AREA" PER FAA CRITERIA. THE EXISTING SLOPE RANGES FROM 0% TO 5%. THE SITE DRAINS THROUGH OVERLAND CONVEYANCES AND EMPTIES INTO THE UNDERGROUND STORM SEWER VIA EXISTING INLETS LOCATED THROUGHOUT THE SITE.

ADJACENT PROPERTY:
 THE SITE IS BOUNDED BY IMPERVIOUS AIRFIELD PAVEMENT OR GRASSED OPEN SPACE ON ALL SIDES. THE POTENTIAL FOR OFFSITE DAMAGES IS NEGLIGIBLE. THERE ARE NO KNOWN OFF SITE ENVIRONMENTALLY SENSITIVE AREAS. PERIMETER CONTROLS TO BE USED TO PROTECT THE ADJACENT AREAS INCLUDE SILT FENCE, PERMANENT SEEDING, AND INLET PROTECTION. SEE THE EROSION CONTROL PLAN FOR ALL PERIMETER CONTROLS.

OFF-SITE AREAS:
 NO OFFSITE BORROW OR DISPOSAL SITES EXPECTED. ANY ADDITIONAL OFFSITE LAND-DISTURBING ACTIVITY ASSOCIATED WITH THIS PROJECT MUST HAVE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.

SOILS DATA:
 THE SUBSURFACE SOILS AT THE SITE CONSIST OF IMPERVIOUS AIRFIELD PAVEMENT OF VARIOUS THICKNESS OVER BROWN FINE TO MEDIUM SILTY SAND (SM) MATERIAL. GRASSED OPEN SPACE AREAS ARE CONSIDERED TO CONSIST OF PRIMARILY BOJAC FINE SANDY LOAM OR MOLENA LOAMY SAND ACCORDING TO THE USDA WEB SOIL SURVEY AND SITE INSPECTIONS.

CRITICAL AREAS:
 SPECIAL CARE SHALL BE TAKEN TO PROTECT THE VEGETATION ON THE SITE. ADDITIONAL MEASURES WILL BE IN PLACE TO CONTROL AIRFIELD FOREIGN OBJECT DAMAGE (FOD). THE FOB PREVENTION PROGRAM WILL INCLUDE MEASURE, CLEANING, AND ROUTINE INSPECTION OF AIRFIELD PAVEMENTS.

SEDIMENT CONTROL PROGRAM:
 SEDIMENT CONTROL SHALL BE ACCOMPLISHED THROUGH RAPID STABILIZATION AND BY THE INSTALLATION OF MECHANICAL DEVICES, AS SHOWN ON THE E&S PLAN:

STRUCTURAL PRACTICES:

- SILT FENCE (SF). DETAIL HAS BEEN MODIFIED TO SATISFY AIRFIELD CRITERIA WITH REGARD TO FOD.
- INLET PROTECTION (IP)

VEGETATIVE PRACTICES:

- SURFACE ROUGHENING -AREAS TO BE SEEDDED SHALL BE LIGHTLY ROUGHENED & LOOSE TO A DEPTH OF 2" TO 4" PRIOR TO SEEDING. AREAS, WHICH HAVE BEEN GRADED AND WILL NOT BE STABILIZED IMMEDIATELY, MAY BE ROUGHENED TO REDUCE VELOCITY UNTIL SEEDING TAKES PLACE.
- TOP SOILING (STOCKPILES) -TOPSOIL WILL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATIONS SHALL BE LOCATED ON-SITE IN OPEN SPACE AREAS AND TO BE STABILIZED WITH TEMPORARY VEGETATION. SILT FENCES SHALL BE INCLUDED AROUND ALL STOCKPILE AREAS.
- TEMPORARY SEEDING -ALL DENUDED AREAS THAT WILL BE LEFT DORMANT FOR EXTENDED PERIODS OF TIME PER MINIMUM STANDARD NO. 1 SHALL BE SEEDDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF THE YEAR IT IS APPLIED.
- EROSION CONTROL BLANKETS OR MULCH -EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND SEEDDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW THE SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECOND STEP IN THE SEEDING OPERATION.
- ALL SILTATION CONTROL MEASURES ARE INTENDED TO PREVENT SEDIMENT FROM ENCROACHING INTO ENVIRONMENTALLY SENSITIVE AREAS OR ONTO ADJACENT PROPERTIES AND ROADWAYS. THE INSPECTOR HAS THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS IN THE FIELD AS SITE CONDITIONS WARRANT. IN ADDITION, NO SEDIMENT TRAPS OR SEDIMENT BASINS MAY BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE INSPECTOR. SEDIMENT CONTROL "MAINTENANCE PROGRAM" DESCRIBED BELOW.
- OBTAIN INSPECTOR'S APPROVAL PRIOR TO THE REMOVAL OF THE REMAINING MECHANICAL SEDIMENT CONTROLS.

PERMANENT STABILIZATION:
 ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SODDING IMMEDIATELY FOLLOWING FINISH GRADING. SODDING SHALL BE DONE WITH BERMUDA GRASS.

STORMWATER MANAGEMENT:
 STORMWATER RUNOFF SHALL BE CONVEYED OVER GRASSED OPEN SPACE PRIOR TO COLLECTION BY VARIOUS DROP INLETS THROUGHOUT PROJECT SITE.

MAINTENANCE PROGRAM:
 IN GENERAL ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE FOLLOWING MEASURES WILL BE CHECKED IN PARTICULAR:
SILT FENCE: INSPECTIONS SHALL BE MADE DAILY FOR FENCE INTEGRITY; REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT IS TO BE REMOVED WHEN DEPOSITS REACH ONE-HALF THE FENCE HEIGHT.
INLET PROTECTION: INLETS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AS NEEDED.
PERMANENT SODDING: SEEDDED AREAS SHALL BE CHECKED REGULARLY TO ASSURE A GOOD STAND OF GRASS IS BEING MAINTAINED. AREAS THAT FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION SHALL BE RE-SODDED AS SOON AS THEY ARE IDENTIFIED.

PHASING OF LAND DISTURBING ACTIVITIES:
 SEDIMENT CONTROL IS PROVIDED THROUGH A TWO-PHASED APPROACH.
PHASE I:
 PHASE I OPERATIONS WILL INCLUDE THE CONSTRUCTION NEEDED TO DIVERT MAJOR OFF-SITE CLEAN WATER AND ON-SITE DRAINAGE FLOWS AROUND THE WORK AREA AND CONTROL EROSION AND SILTATION ASSOCIATED WITH INITIAL CLEARING AND GRADING OPERATIONS. AS REQUIRED, PHASE I CONTROLS SHALL BE ESTABLISHED IN A ONE (1) STEP PROCESS:

- CONTRACTOR TO OBTAIN VPDES PERMIT. CONTRACTOR, RESPONSIBLE LAND DISTURBER AND CONSTRUCTION MANAGER SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR PRIOR TO STARTING ANY LAND DISTURBING ACTIVITIES.
- INSTALL CONSTRUCTION ENTRANCE (CE) IF SHOWN ON THE PLAN. PROVIDE THE CONSTRUCTION ENTRANCE WITH WASH RACK AND ESTABLISH A PROTECTED STAGING AND EQUIPMENT PARKING AREA.
- INSTALL THE REMAINING MECHANICAL CONTROLS SUCH AS SILT FENCE (SF), INLET PROTECTION (IP) AND TREE PROTECTION (TP) AS SHOWN ON THE PLAN.
- INSTALL SEDIMENT TRAP AND BASIN ALONG WITH THE APPROPRIATE CONTROLS, AS SHOWN ON THE PLAN.
- CONTACT THE INSPECTOR FOR AN E&S PERIMETER INSPECTION PRIOR TO STARTING THE CLEARING AND GRUBBING OF REMAINING SITE.
- CLEARING AND GRUBBING OR REMOVAL OF EXISTING VEGETATION MUST BE LIMITED WITHIN THE LIMITS OF CLEARING, AS SHOWN ON THE PLAN.

PHASE II:
 THE PHASE II SEDIMENT CONTROL MEASURES ARE INTENDED FOR THE FINAL STAGES OF SITE DEVELOPMENT. PHASE I CONTROL MEASURES, WHICH ARE NOT IN CONFLICT WITH FINAL CONSTRUCTION AND PROVIDE EFFECTIVE CONTROL, SHALL REMAIN IN PLACE FOR FINAL DEVELOPMENT. THE CONTRACTOR AND THE RESPONSIBLE LAND DISTURBER SHALL FOLLOW THE INSPECTOR'S DIRECTION IN PROVIDING ADDITIONAL CONTROL MEASURES NEEDED DURING THE DEVELOPMENT PROCESS, TO INSURE THAT SEDIMENT IS PREVENTED FROM POLLUTING OFF-SITE AREAS, STREAMS AND/OR PROTECTED ON-SITE AREAS.

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS SUGGESTED:

- ROUGH GRADE AREAS DESIGNATED FOR REGRADING.
- FINE GRADE AREAS DESIGNATED FOR REGRADING AND PERMANENTLY STABILIZE SITE BY SURFACE ROUGHENING FOLLOWED BY PLANTING AND SEEDING.
- PROVIDE ALL OTHER PAVEMENT REPAIRS.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER Wallops Flight Facility Wallops Island, Virginia 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I ESC NOTES		
							<i>Julius C. [Signature]</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	NOT TO SCALE	PROJECT NUMBER: 1368232 DR. TP DATE: _____ CK. LMH REVISED: _____		
						SUBMITTED BY	FIRE PROTECTION	O & M	BRANCH APPROVAL	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES0	SCALE NOT TO SCALE	DRAWING NO.	
						PROJECT MANAGER	<i>Julius C. [Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	SHEET 158 OF 171		17345	

ES002

EROSION & SEDIMENT CONTROL NARRATIVE (CONTINUED)

DEVICES SHOWN ARE TO BE CONSIDERED AS MINIMUM EROSION AND SEDIMENTATION CONTROLS. ADDITIONAL CONTROLS MAY BE NECESSARY DUE TO CONTRACTOR'S PHASING OR OTHER UNANTICIPATED CONDITIONS. THE EROSION AND SEDIMENT CONTROL INSPECTOR HAS THE RIGHT TO ADD OR REMOVE CONTROLS AS DEEMED NECESSARY IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL DEVICES AS NECESSARY IN ORDER TO CONTROL EROSION AND SEDIMENTATION AT NO ADDITIONAL COST TO THE GOVERNMENT. EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF CLEANING AND REMOVING ALL LAYING DUST AS NECESSARY BY APPLYING EITHER MOISTURE, CALCIUM CHLORIDE, OR OTHER APPROVED MATERIALS ALONG THOSE SECTIONS OF THE PROJECT ADJACENT TO EXISTING FACILITIES OR PUBLIC ACCESS. CONTROLS MAY BE REMOVED AFTER THE AREAS ABOVE THEM HAVE BEEN STABILIZED AND WITH THE APPROVAL OF THE INSPECTOR.

SPECIAL CARE NOTES:

IT IS THE INTENT OF THIS PLAN TO PRECLUDE SEDIMENT POLLUTION FROM LEAVING THE DELINEATED CONSTRUCTION ZONES.

THE CONTRACTOR AND THE RESPONSIBLE LAND DISTURBER SHALL TAKE SPECIAL CARE TO PREVENT CONSTRUCTION DEBRIS AND MUD FROM BEING TRACKED ONTO SURROUNDING ROADS. CONSTRUCTION TRAFFIC SHALL ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA DESIGNATED LOCATIONS, WHICH HAVE WORKING CONSTRUCTION TRAFFIC WASH RACKS.

THE CONTRACTOR AND RESPONSIBLE LAND DISTURBER SHALL TAKE SPECIAL CARE TO PROTECT THE EXISTING VEGETATION AND STREAMS OUTSIDE OF THE DESIGNATED LIMITS OF WORK SHOWN ON THE PLANS.

EROSION & SEDIMENT CONTROL GENERAL NOTES

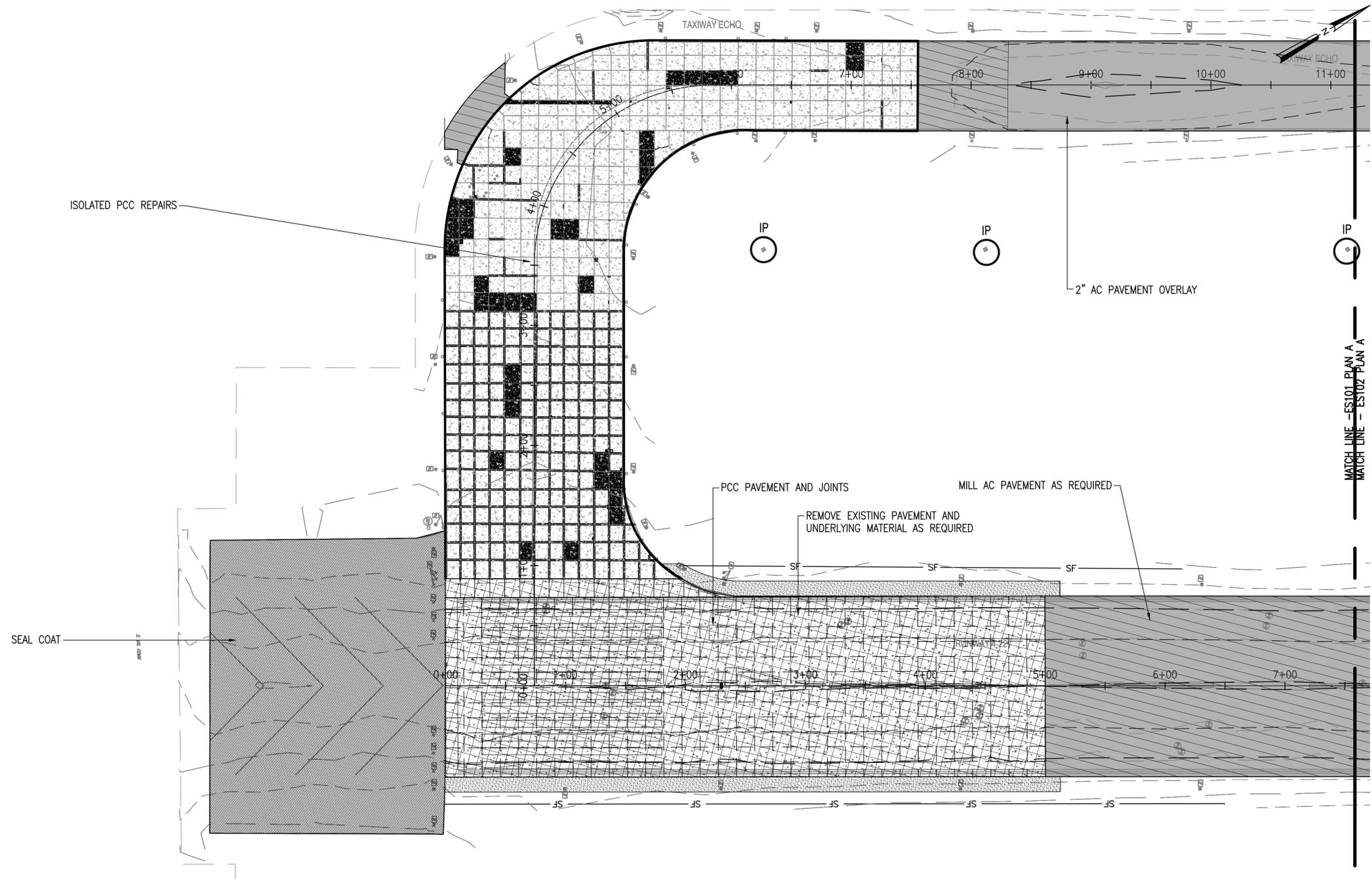
1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
2. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. ALL APPROPRIATE EROSION CONTROL MEASURES SUCH AS, BUT NOT LIMITED TO, TREE PROTECTION, SILT FENCE, CONSTRUCTION ENTRANCE, SEDIMENT TRAPPING FACILITIES, AND INLET PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MUST BE REVIEWED AND APPROVED BY THE INSPECTOR BEFORE ANY CLEARING OPERATIONS BEGIN.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND LAND DISTURBANCE PERMIT MUST BE MAINTAINED AT THE SITE FOR THE DURATION OF ALL CONSTRUCTION AND LAND-DISTURBING ACTIVITIES.
5. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL APPROVED MEASURES AS SHOWN ON THE DRAWINGS. ANY ADDITIONAL MEASURES DEEMED REQUIRED BY THE PLAN APPROVING AUTHORITY SHALL BECOME PART OF THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROPERTY. ALL FIELD CHANGES MUST BE APPROVED BY THE PLAN APPROVING AUTHORITY.
6. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL MEASURES TO PREVENT SOIL FROM ERODING ONTO ADJACENT PROPERTY, STREETS, DRAINAGE SYSTEMS, AND WATERWAYS. ALL DEVICES SHALL BE CLEANED OF MUD, DEBRIS, AND OTHER ERODED MATERIAL DURING THE SITE CLEARING AND DEVELOPMENT. INSPECTION OF DEVICES SHALL BE AT A MINIMUM EVERY TWO (2) WEEKS AND REQUIRED AFTER EVERY RAINFALL EVENT. ALL INSPECTION AND MAINTENANCE ACTIVITIES SHALL BE DOCUMENTED AND AVAILABLE FOR REVIEW AT THE PLAN REVIEWING AUTHORITIES REQUEST.
8. TEMPORARY AND PERMANENT SODDING OPERATIONS SHALL BE INITIATED WITHIN SEVEN (7) DAYS AFTER REACHING FINAL GRADE OR UPON SUSPENSION OF GRADING OPERATIONS FOR ANTICIPATED DURATION OF GREATER THAN FOURTEEN (14) DAYS OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIC AREA.
9. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE KEPT IN PLACE FOR THE DURATION OF THE CLEARING AND CONSTRUCTION OPERATIONS AND AT A MAXIMUM FOR THE SPECIFIED TIME FOR EACH MEASURE AS IDENTIFIED IN THE VESC HANDBOOK, OR WHEN FULL STABILIZATION HAS OCCURRED FOR THE ENTIRE SITE. A FINAL INSPECTION BY THE PLAN APPROVING AUTHORITY SHALL DETERMINE WHEN THIS FACT IS ACCOMPLISHED AND ALL TEMPORARY MEASURES AND DEVICES CAN BE REMOVED.
10. THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST AND OTHER AIR POLLUTANTS, INCLUDING BUT NOT LIMITED TO USING WATER OR CHEMICALS, LIMITING THE NUMBER OF VEHICLES ALLOWED ONSITE, MINIMIZING THE OPERATING SPEED OF ALL VEHICLES, ETC. ALSO, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE DAILY SWEEPING SHOULD SEDIMENT ACCUMULATE ON PAVED SURFACES.

REGISTERED LAND DISTURBER

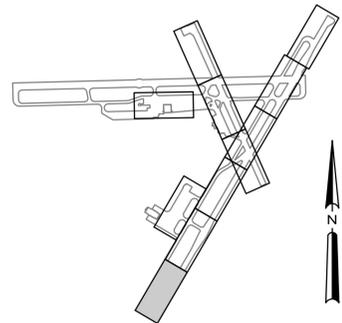
THE CONTRACTOR SELECTED TO COMPLETE THE REGULATED LAND DISTURBING ACTIVITY AS SHOWN ON THESE DRAWINGS IS RESPONSIBLE FOR IMPLEMENTING THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. PRIOR TO THE COMMENCEMENT OF THIS ACTIVITY, IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL LAW, THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL HOLDING A CERTIFICATE OF COMPETENCE WITH THE COMMONWEALTH OF VIRGINIA AS THE PERSON RESPONSIBLE FOR CARRYING OUT THE APPROVED PLAN, AND PROVIDE THE NAME OF THAT INDIVIDUAL TO THE PLAN APPROVING AUTHORITY.

ES003

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337		DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY <i>Julius C. Pollock</i>	CONSTRUCTION MANAGEMENT <i>Nick Clayton</i>	ENGINEERING APPROVAL <i>[Signature]</i>	GRAPHIC SCALE NOT TO SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I ESC NOTES		
													AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES0	SCALE NOT TO SCALE
							SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. Pollock</i>	O & M <i>[Signature]</i>	BRANCH APPROVAL <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES0	SCALE NOT TO SCALE	DR. TP	DATE:
							PROJECT MANAGER			BRANCH HEAD <i>[Signature]</i>		SHEET 159 OF 171	CK. LMH	REVISED:



A EROSION AND SEDIMENT CONTROL PLAN (1 OF 11)
1" = 50'



B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

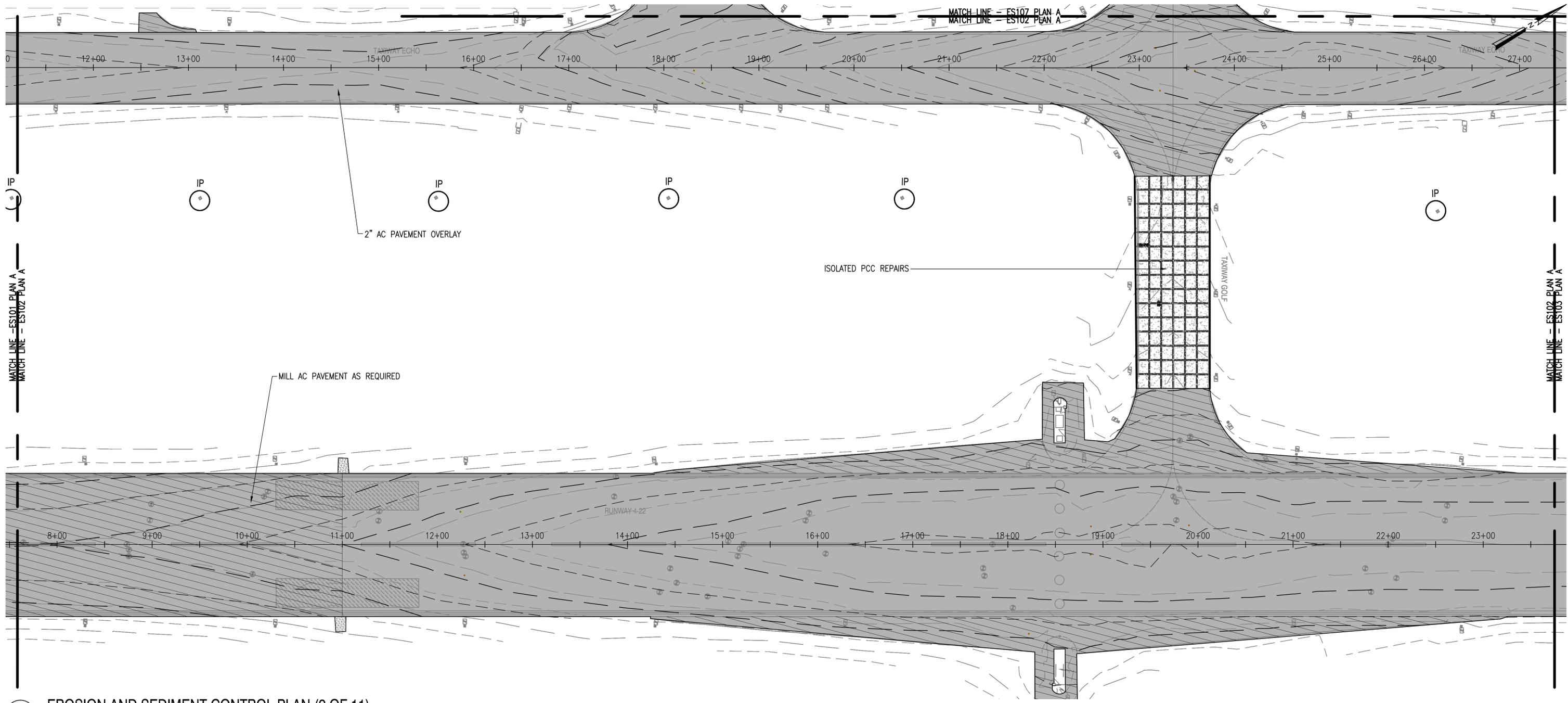
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

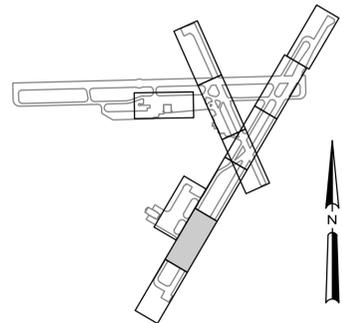
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 160 OF 171

Wallops Airfield Repair Project
CoF Phase I
ESC PLAN
PROJECT NUMBER: 1368232
DR. TP
CK. LMH
DATE:
REVISED:
DRAWING NO.
173467



A EROSION AND SEDIMENT CONTROL PLAN (2 OF 11)
1" = 50'



B KEY PLAN
NTS ES102

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Wallops Flight Facility
Wallops Island, Virginia 23337



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PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

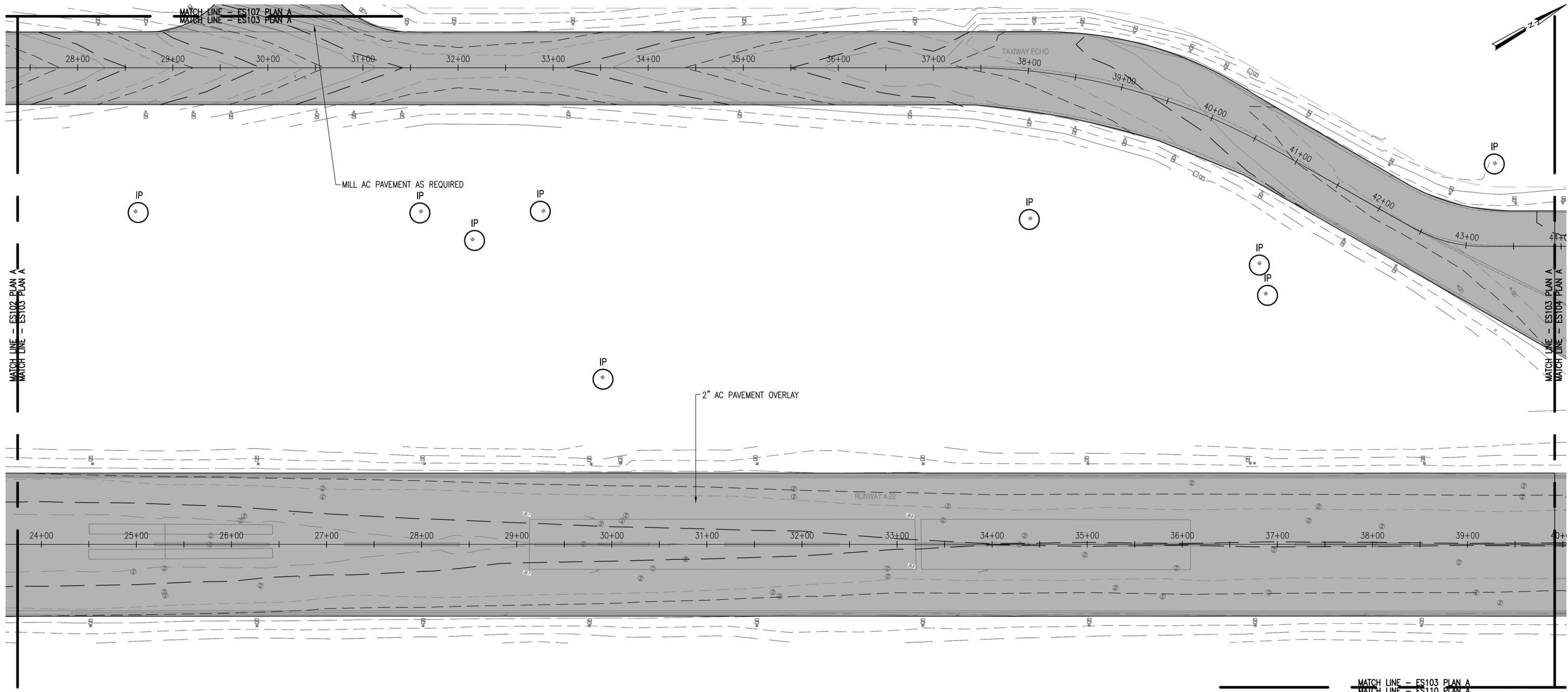
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

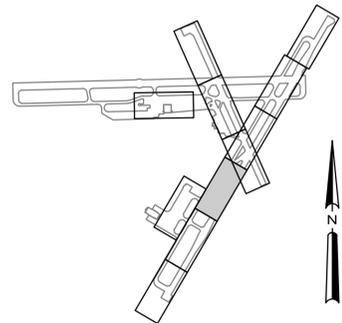
GRAPHIC SCALE
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AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 161 OF 171

Wallops Airfield Repair Project
CoF Phase I
ESC PLAN
PROJECT NUMBER: 1368232
DR. TP
CK. LMH
DATE:
REVISED:
DRAWING NO.
17348



A EROSION AND SEDIMENT CONTROL PLAN (3 OF 11)
1" = 50'

MATCH LINE - ES103 PLAN A
MATCH LINE - ES110 PLAN A



B KEY PLAN
NTS ES103

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Wallops Flight Facility
Wallops Island, Virginia 23337



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SUBMITTED BY
PROJECT MANAGER

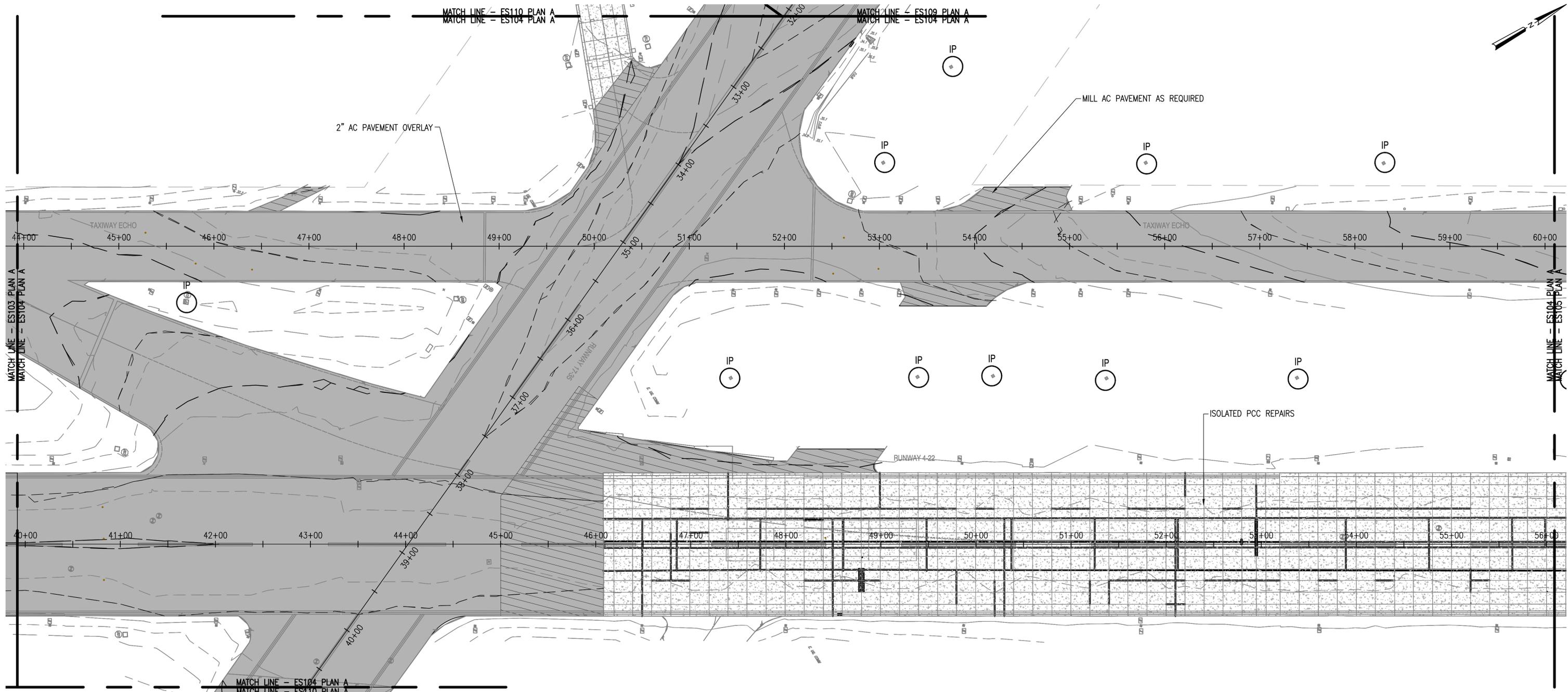
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

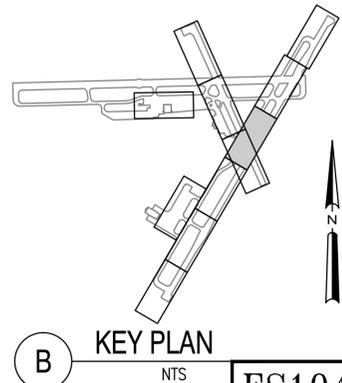
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 162 OF 171

Wallops Airfield Repair Project
CoF Phase I
ESC PLAN
PROJECT NUMBER: 1368232
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A EROSION AND SEDIMENT CONTROL PLAN (4 OF 11)
 1" = 50'



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 WALLOPS FLIGHT FACILITY
 WALLOPS ISLAND, VIRGINIA 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
 SUBMITTED BY
 PROJECT MANAGER

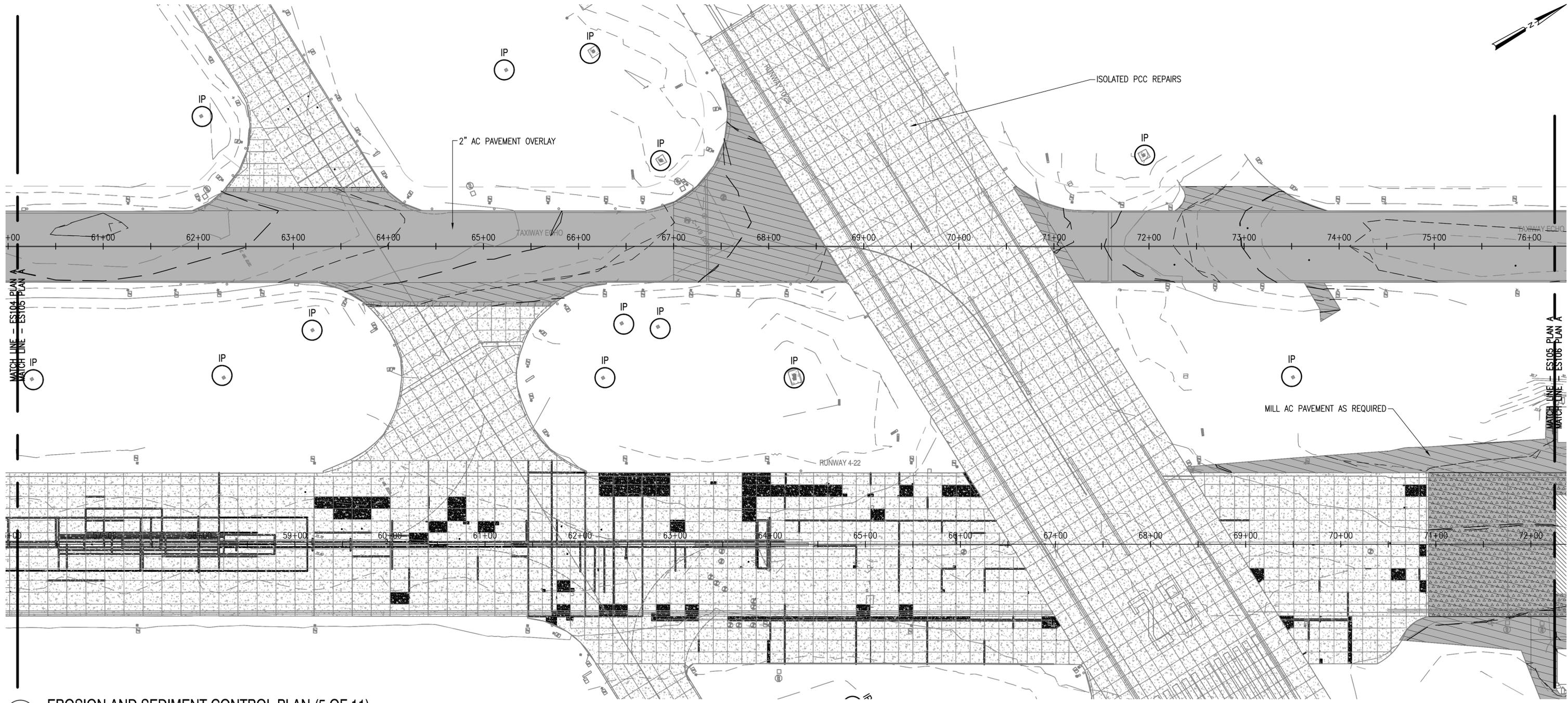
NASA SAFETY
 FIRE PROTECTION

CONSTRUCTION MANAGEMENT
 O & M

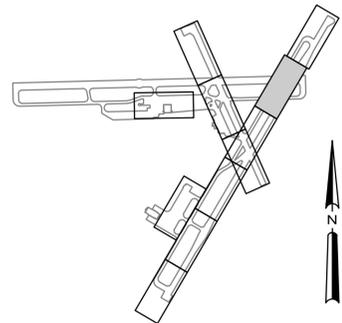
ENGINEERING APPROVAL
 ENGINEERING GROUP LEADER
 BRANCH APPROVAL
 BRANCH HEAD

GRAPHIC SCALE
 1" = 50'
 AUTOCAD - RELEASE 2010
 FILE NAME: ...1368232-ES1
 SCALE
 1" = 50'
 SHEET 163 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
 CoF PHASE I
 ESC PLAN
 PROJECT NUMBER: 1368232
 DR. TP
 CK. LMH
 DATE:
 REVISED:
 DRAWING NO.
17350



A EROSION AND SEDIMENT CONTROL PLAN (5 OF 11)
1" = 50'

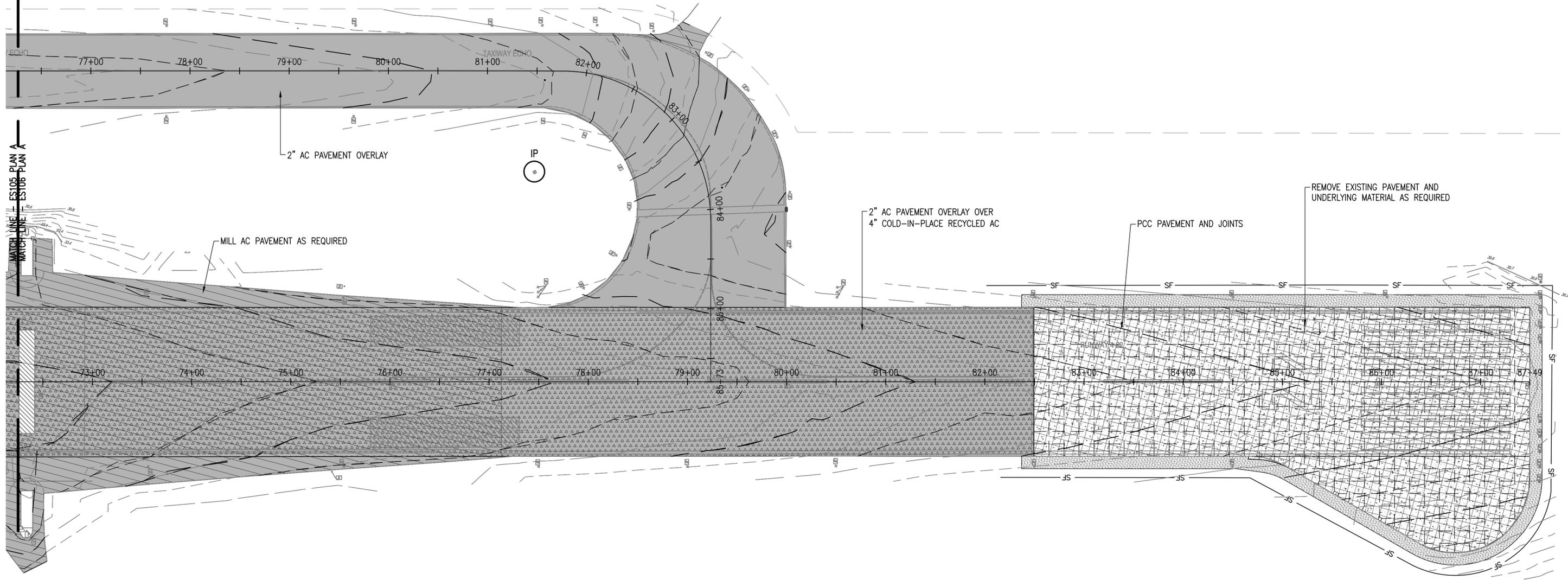


B KEY PLAN
NTS ES105

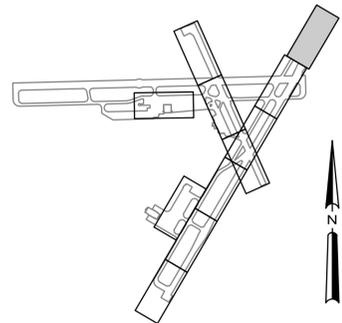
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I ESC PLAN
						<i>Julius C. Pollock</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	1"=50' 0' 50' 100'	PROJECT NUMBER: 1368232
					SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. Pollock</i>	O & M <i>[Signature]</i>	ENGINEERING GROUP LEADER <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES1	DR. TP
					PROJECT MANAGER			BRANCH APPROVAL <i>[Signature]</i>	SCALE 1" = 50'	DATE:
								BRANCH HEAD <i>[Signature]</i>	SHEET 164 OF 171	CK. LMH
										REVISOR:
										DRAWING NO. 17351



A EROSION AND SEDIMENT CONTROL PLAN (6 OF 11)
1" = 50'

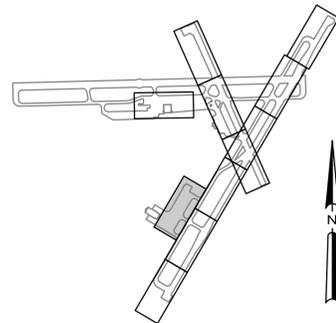


B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I		
							<i>Julius C. Valentinis</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	1"=50' 0' 50' 100'	ESC PLAN		
						SUBMITTED BY	FIRE PROTECTION	O & M	BRANCH APPROVAL	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES1	SCALE 1" = 50'	PROJECT NUMBER: 1368232	DRAWING NO.
					PROJECT MANAGER		<i>Julius C. Valentinis</i>	<i>Jantalle</i>	BRANCH HEAD	SHEET 165 OF 171	DR. TP	DATE:	17352
											CK. LMH	REVISED:	



A EROSION AND SEDIMENT CONTROL PLAN (7 OF 11)
1" = 50'



B KEY PLAN
NTS

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GODDARD SPACE FLIGHT CENTER
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Wallops Island, Virginia 23337



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PROJECT ENGINEER
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PROJECT MANAGER

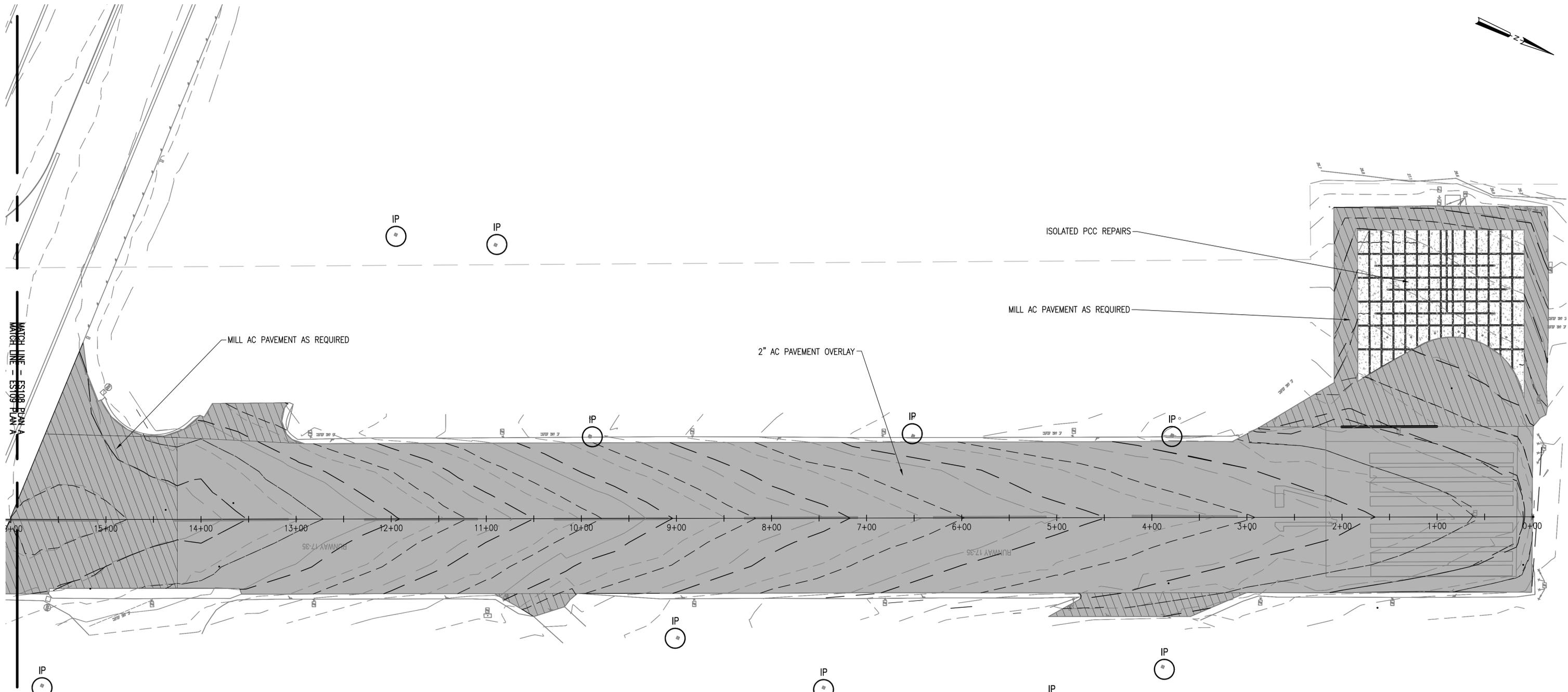
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

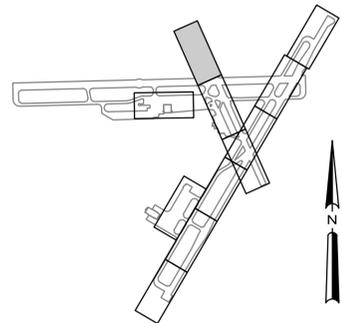
GRAPHIC SCALE
1" = 50'
0' 50' 100'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 166 OF 171

Wallops Airfield Repair Project
CoF Phase I
ESC PLAN
PROJECT NUMBER: 1368232
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CK. LMH
DATE:
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A EROSION AND SEDIMENT CONTROL PLAN (8 OF 11)

1" = 50'



B KEY PLAN
NTS

ES108

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WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA 23337



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PROJECT ENGINEER

SUBMITTED BY
[Signature]
PROJECT MANAGER

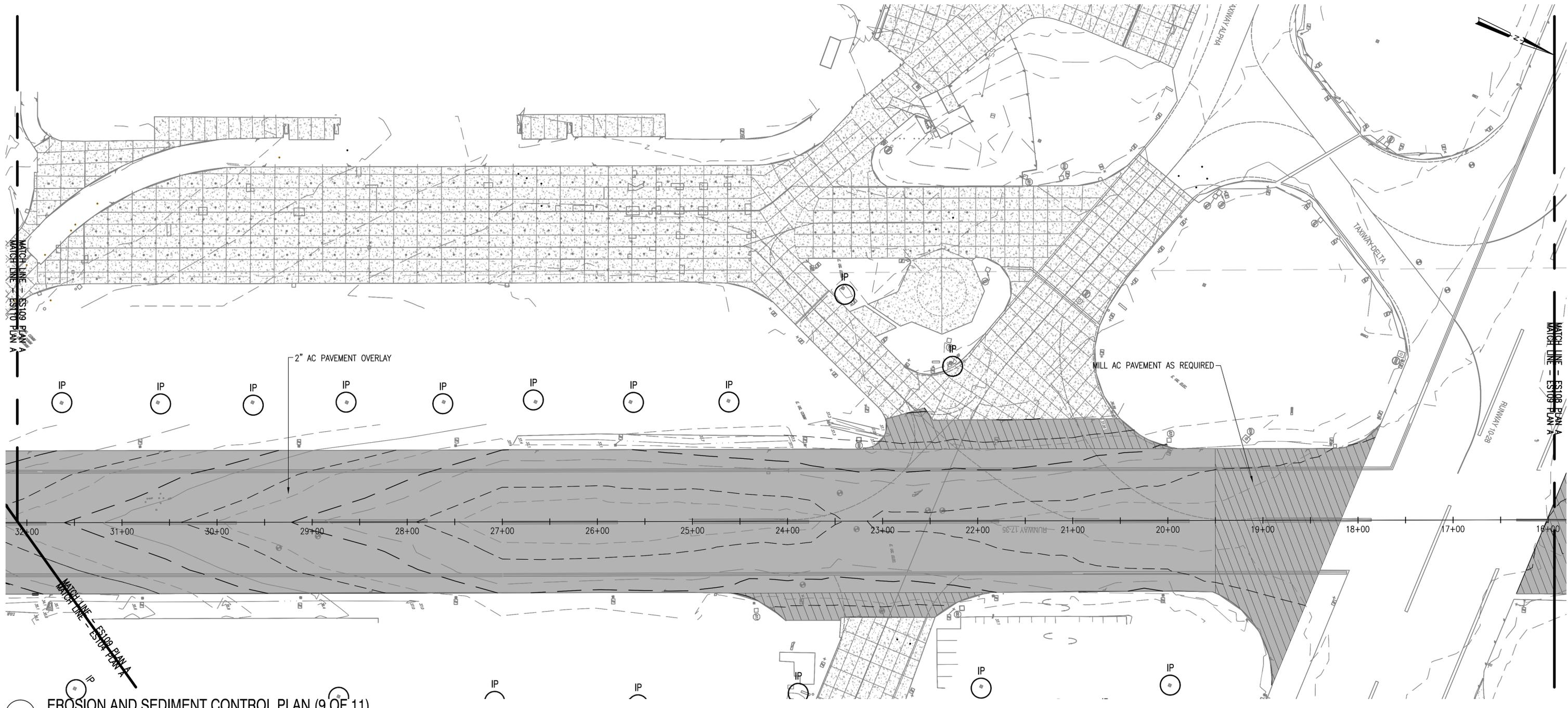
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FIRE PROTECTION
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CONSTRUCTION MANAGEMENT
[Signature]
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[Signature]

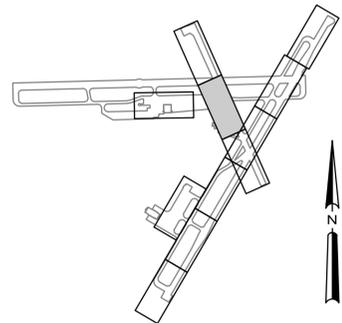
ENGINEERING APPROVAL
[Signature]
ENGINEERING GROUP LEADER
BRANCH APPROVAL
[Signature]
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
0' 50' 100'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 167 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
ESC PLAN
PROJECT NUMBER: 1368232
DR. TP
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DATE:
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DRAWING NO.
17354

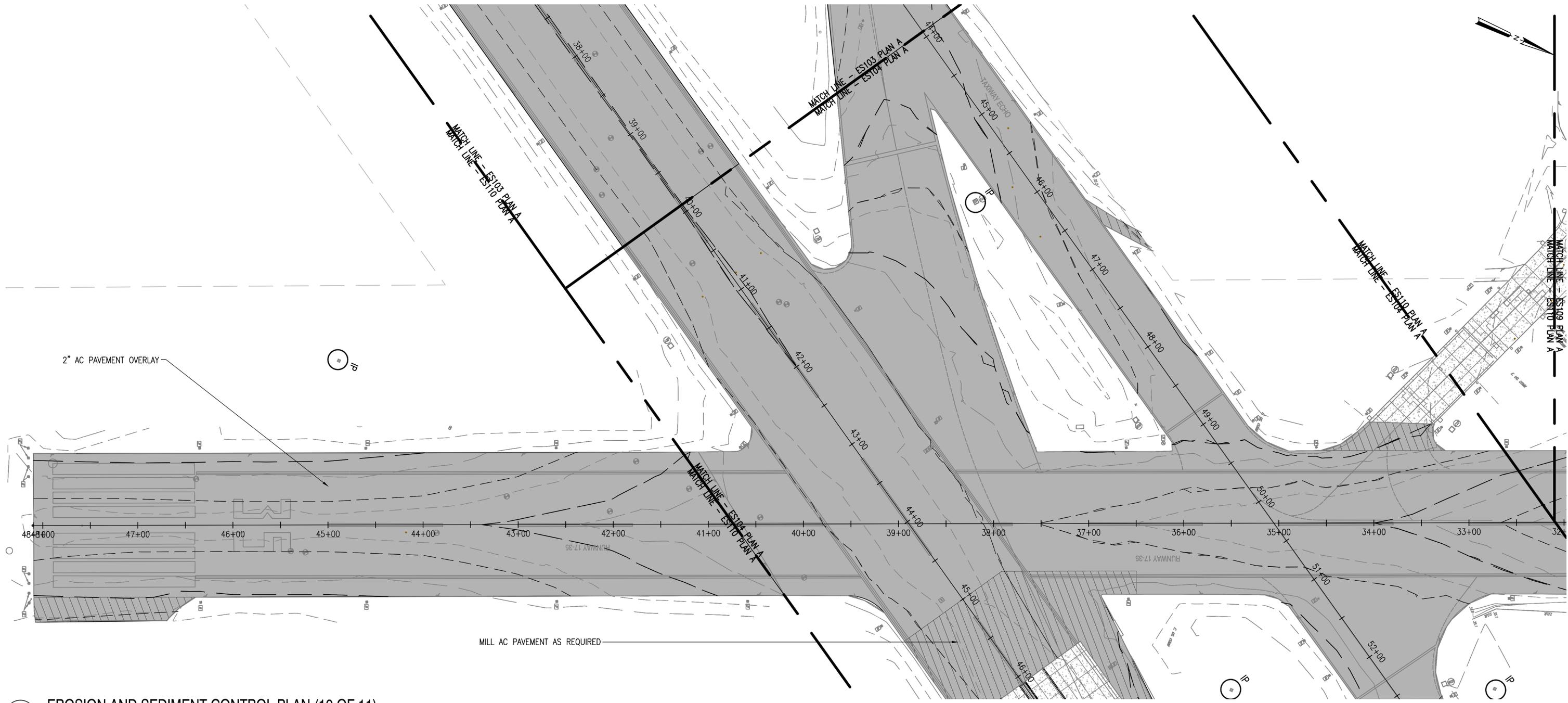


A EROSION AND SEDIMENT CONTROL PLAN (9 OF 11)
1" = 50'

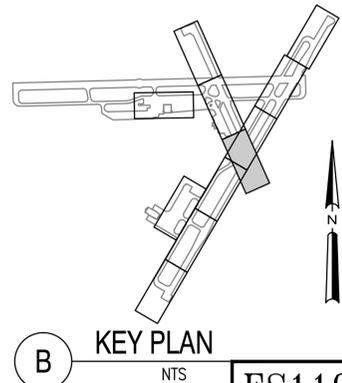


B KEY PLAN
NTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GODDARD SPACE FLIGHT CENTER WALLOPS FLIGHT FACILITY WALLOPS ISLAND, VIRGINIA 23337	DATE	LET.	REVISIONS	CK.	AP.	PROJECT ENGINEER	NASA SAFETY	CONSTRUCTION MANAGEMENT	ENGINEERING APPROVAL	GRAPHIC SCALE	WALLOPS AIRFIELD REPAIR PROJECT CoF PHASE I	
							<i>Julius C. ...</i>	<i>Nick Clayton</i>	<i>[Signature]</i>	1"=50' 0' 50' 100'	ESC PLAN	
						SUBMITTED BY <i>[Signature]</i>	FIRE PROTECTION <i>Julius C. ...</i>	O & M <i>[Signature]</i>	BRANCH APPROVAL <i>[Signature]</i>	AUTOCAD - RELEASE 2010 FILE NAME: ...1368232-ES1	SCALE 1" = 50'	PROJECT NUMBER: 1368232
					PROJECT MANAGER			BRANCH HEAD <i>[Signature]</i>	SHEET 168 OF 171	DR. TP	DATE:	REVISOR:



A EROSION AND SEDIMENT CONTROL PLAN (10 OF 11)
1" = 50'



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PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

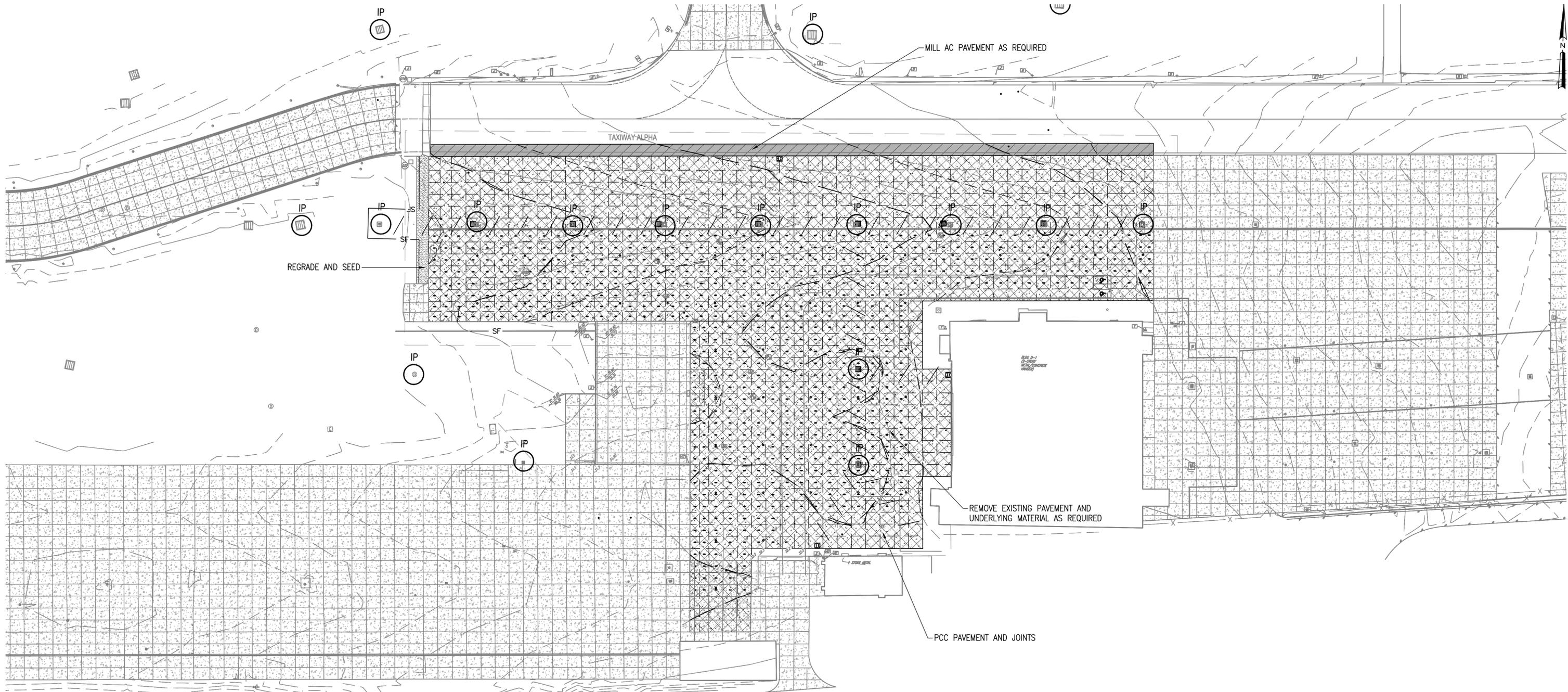
NASA SAFETY
FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

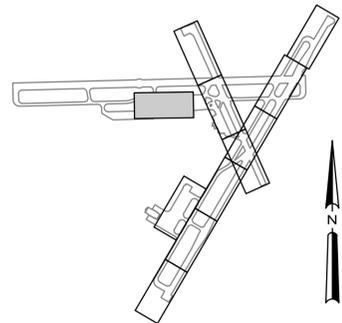
ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 169 OF 171

WALLOPS AIRFIELD REPAIR PROJECT
CoF PHASE I
ESC PLAN
PROJECT NUMBER: 1368232
DR. TP
CK. LMH
DATE:
REVISED:
DRAWING NO.
17356



A EROSION AND SEDIMENT CONTROL PLAN (11 OF 11)
1" = 50'



B KEY PLAN
NTS

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GODDARD SPACE FLIGHT CENTER
Wallops Flight Facility
Wallops Island, Virginia 23337



DATE	LET.	REVISIONS	CK.	AP.

PROJECT ENGINEER
SUBMITTED BY
PROJECT MANAGER

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FIRE PROTECTION

CONSTRUCTION MANAGEMENT
O & M

ENGINEERING APPROVAL
ENGINEERING GROUP LEADER
BRANCH APPROVAL
BRANCH HEAD

GRAPHIC SCALE
1" = 50'
AUTOCAD - RELEASE 2010
FILE NAME: ...1368232-ES1
SCALE
1" = 50'
SHEET 170 OF 171

Wallops Airfield Repair Project
CoF Phase I
ESC PLAN
PROJECT NUMBER: 1368232
DR. TP
CK. LMH
DATE:
REVISED:
DRAWING NO.
17357

