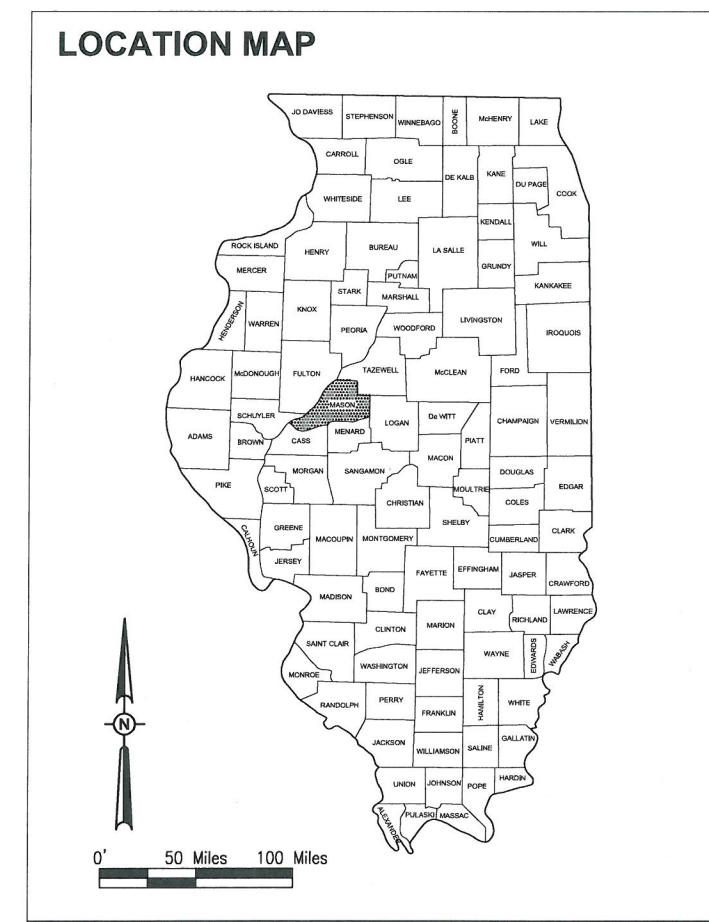
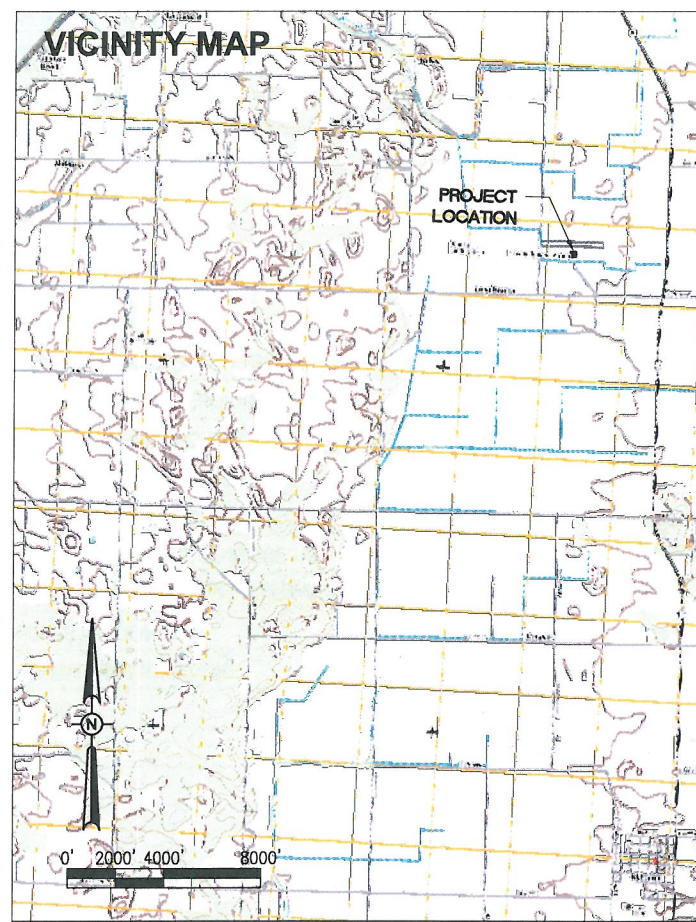


CONSTRUCTION PLANS

REHABILITATE AIRCRAFT PARKING APRON

HAVANA REGIONAL PORT DISTRICT
HAVANA REGIONAL AIRPORT (910)
HAVANA, MASON COUNTY, ILLINOIS

IDA PROJECT NO. 910-4312



NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

No.	Issue/Description	Sheets Changed	Date	By

Seal: Date of Plans: 2/27/14

Lindsay Hausman
Lindsay D. Hausman, P.E.
Project Engineer

HANSON
HANSON PROFESSIONAL SERVICES INC.
1525 S. Sixth St.
Springfield, Illinois 62703
Telephone: 217.788.2450
Fax: 217.788.2503

Robert A. Waller P.E. 2/27/14
Robert A. Waller, P.E.
Project Manager

HAVANA REGIONAL PORT DISTRICT
HAVANA REGIONAL AIRPORT
509 East Laurel Avenue
Havana, Illinois 62655

Kent Johnson
Kent Johnson
Airport Manager

February 27, 2014
Date

INDEX OF SHEETS	
SHEET NO.	TITLE
1	COVER SHEET
2	SHEET INDEX AND SUMMARY OF QUANTITIES
3	SITE PLAN AND GENERAL NOTES
4	TYPICAL SECTIONS AND PAVEMENT DETAILS
5	PAVEMENT LAYOUT AND ALIGNMENT DATA TABLE
6	REMOVAL PLAN
7	CRACK REPAIR PLAN
8	APRON CROSS SECTIONS - STA. 203+60.16 - 204+50
9	APRON CROSS SECTIONS - STA. 204+75- 205+25
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11	APRON STAKING PLAN
12	DRAINAGE PLAN
13	UNDERDRAIN SCHEDULE
14	UNDERDRAIN DETAILS
15	MARKING PLAN AND TIE DOWN LAYOUT
16	TIE DOWN DETAILS
17	LANDSCAPING AND SWPP PLAN
18	SWPPP DETAILS

SUMMARY OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	AS BID	RECORD PAID
AR150510	ENGINEER'S FIELD OFFICE	LUMP SUM	1.0	
AR152410	UNCLASSIFIED EXCAVATION	CUBIC YARD	735.0	
AR156510	SILT FENCE	LINEAR FOOT	365.0	
AR156513	SEPARATION FABRIC	SQUARE YARD	1,928.0	
AR201661	CLEAN & SEAL BITUMINOUS CRACKS	LINEAR FOOT	645.0	
AR209608	CRUSHED AGG. BASE COURSE - 8"	SQUARE YARD	1,928.0	
AR401613	BIT. SURF. CSE. - METHOD I, SUPERPAVE	TON	580.0	
AR401650	BITUMINOUS PAVEMENT MILLING	SQUARE YARD	121.0	
AR401660	SAW & SEAL BIT. JOINTS	LINEAR FOOT	26.0	
AR401665	BITUMINOUS PAVEMENT SAWING	LINEAR FOOT	351.0	
AR401910	REMOVE & REPLACE BIT. PAVEMENT	SQUARE YARD	65.0	
AR403613	BIT. BASE CSE. - METHOD I, SUPERPAVE	TON	283.0	
AR501900	REMOVE PCC PAVEMENT	SQUARE YARD	66.0	
AR510510	TIE DOWN	EACH	5.0	
AR510900	REMOVE TIE DOWN	EACH	24.0	
AR602510	BITUMINOUS PRIME COAT	GALLON	563.0	
AR603510	BITUMINOUS TACK COAT	GALLON	962.0	
AR620520	PAVEMENT MARKING-WATERBORNE	SQUARE FOOT	504.0	
AR705506	6" PERFORATED UNDERDRAIN	LINEAR FOOT	666.0	
AR705620	UNDERDRAIN END SECTION	EACH	1.0	
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	3.0	
AR705640	UNDERDRAIN CLEANOUT	EACH	1.0	
AR800928	GRANULAR DRAINAGE SUBBASE - 4"	SQUARE YARD	1,928.0	
AR800939	CRACK CONTROL REPAIR MATERIAL (8502)	SQUARE YARD	81.0	
AR800998	REPLACE TIE DOWN	EACH	16.0	
AR800999	PAVEMENT RESTORATION	SQUARE YARD	71.0	
AR901510	SEEDING	ACRE	0.4	
AR905530	TOPSOILING	SQUARE YARD	1,650.0	
AR908510	MULCHING	ACRE	0.4	

REHABILITATE
AIRCRAFT PARKING
APRON

IDA No: 9I0-4312

Contract No.: HV007

NO.	DATE	DESCRIPTION		
		LAY	DWN	REV

ISSUE: February 28, 2014
PROJECT NO: 13A0065D
CAD FILE: G-002-SOQ.DWG
LAYOUT BY: LDH 2/24/14
DRAWN BY: LDH 2/14/14
REVIEWED BY: SJM 2/25/14

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SHEET TITLE

SHEET INDEX AND
SUMMARY OF
QUANTITIES

SCOPE OF WORK

THIS PROJECT CONSISTS OF REHABILITATING THE EXISTING BITUMINOUS APRON PAVEMENTS AND EXTENDING THE APRON TO THE WEST TO MEET THE EXISTING FUEL FACILITY. THE PROJECT INCLUDES BUT IS NOT LIMITED TO: ALL NECESSARY EROSION CONTROL, UNCLASSIFIED EXCAVATION, DRAINAGE, AGGREGATE FILL, BITUMINOUS PAVING, MARKING, TOPSOILING, SEEDING AND MULCHING.

UTILITY NOTE

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVE GROUND UTILITIES.

J.U.L.I.E. INFORMATION

COUNTY _____ MASON
 CITY _____ HAVANA
 TOWNSHIP _____ HAVANA
 SECTION NO. _____ 32
 ADDRESS _____ HAVANA, AIRPORT

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET.

HAUL ROUTE AND VEHICLE PARKING

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE PROPOSED PARKING AREA WILL BE 50' X 200'. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL GRADE, FERTILIZE, SEED AND MULCH THE CONSTRUCTION STORAGE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS ORIGINAL STATE. PRIOR TO THE START OF CONSTRUCTION, THE RESIDENT ENGINEER AND CONTRACTOR SHALL WALK THE SECTION OF THE ENTRANCE AND ACCESS ROAD TO BE USED AS A HAUL ROUTE AND RECORD ALL PAVEMENT DEFICIENCIES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY OTHER DEFICIENCIES THAT APPEAR AT THE END OF THE PROJECT. SAID REPAIRS WILL BE COMPLETED TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AT THE CONTRACTOR'S OWN EXPENSE. RESTORATION OF THE CONSTRUCTION STORAGE AND PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THIS AREA.

THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT.

CONSTRUCTION SCHEDULE

CONTRACTOR SHALL PROVIDE 2 WEEK NOTICE PRIOR TO STARTING SO THAT THE AIRPORT MAY NOTIFY AIRCRAFT OWNERS.

THIS PROJECT SHALL NOT BE STAGED, RATHER COMPLETED IN ONE PHASE. CONSTRUCTION SHALL BE COMPLETED IN ONE SEASON, NO SUSPENSIONS WILL BE ALLOWED AS PART OF THIS PROJECT.

BARRICADES AND TRAFFIC CONES

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY-BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PROPOSED SAFETY PLAN

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE (3') FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

DESIGN AND SPECIFICATIONS

ALL DESIGN WAS DONE FOR 60,000 LBS. OR LESS AIRCRAFT.






CERTIFIED PAYROLLS

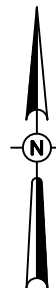
THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIAL CERTIFICATION

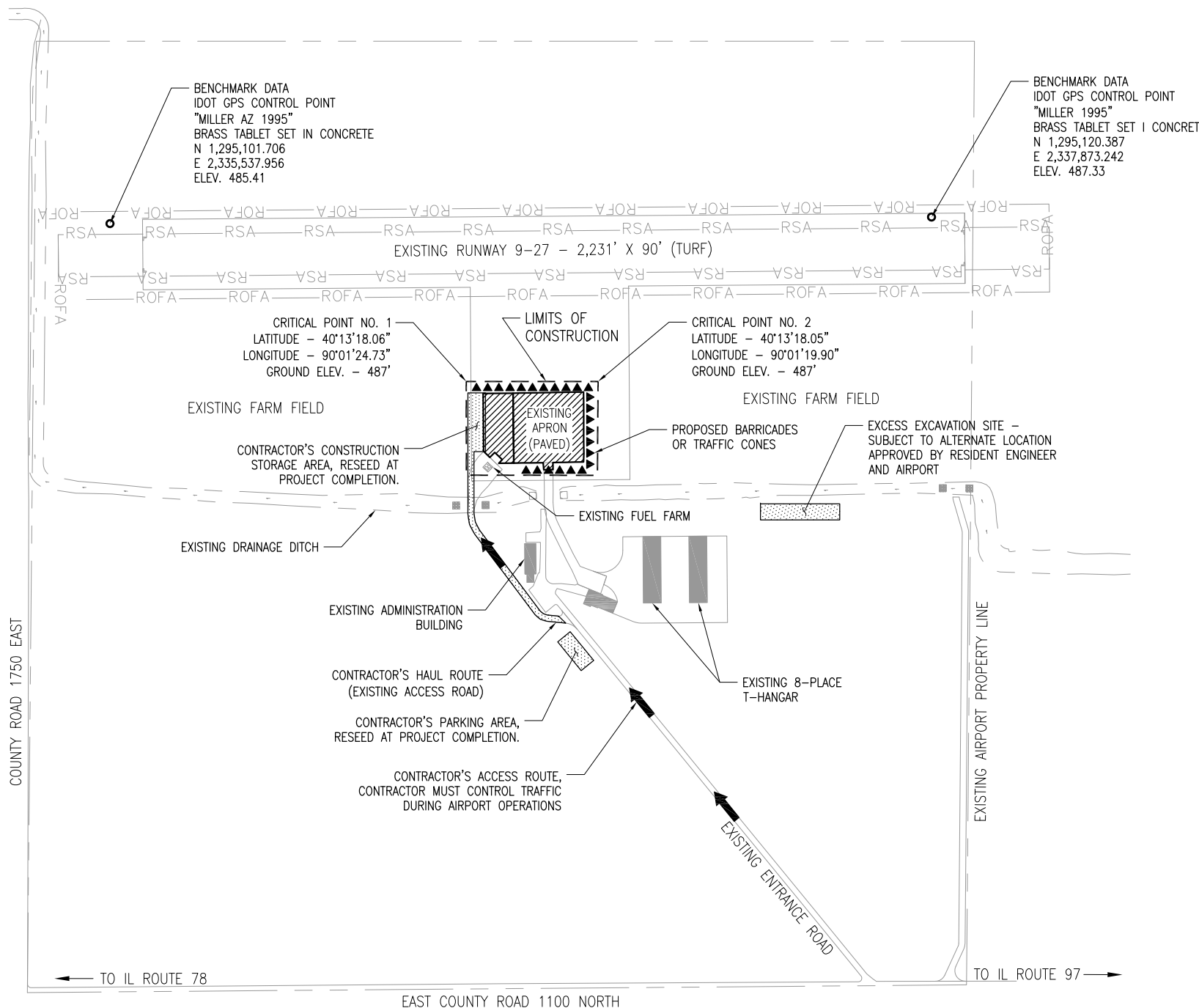
COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.

LEGEND

-  EXISTING PAVEMENTS
-  PROPOSED IMPROVEMENTS
-  EXISTING BUILDINGS
-  PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
-  PROPOSED BARRICADES OR TRAFFIC CONES



0' 100' 200' 400'
 HALF SIZE SCALE: 1"= 400'
 FULL SIZE SCALE: 1"= 200'



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 Springfield, IL 62568
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 fax: 217-788-2503

Illinois Licensed
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HAVANA REGIONAL AIRPORT
 509 East Laurel Avenue
 Havana, IL 62655

REHABILITATE AIRCRAFT PARKING APRON

IDA No: 9I0-4312

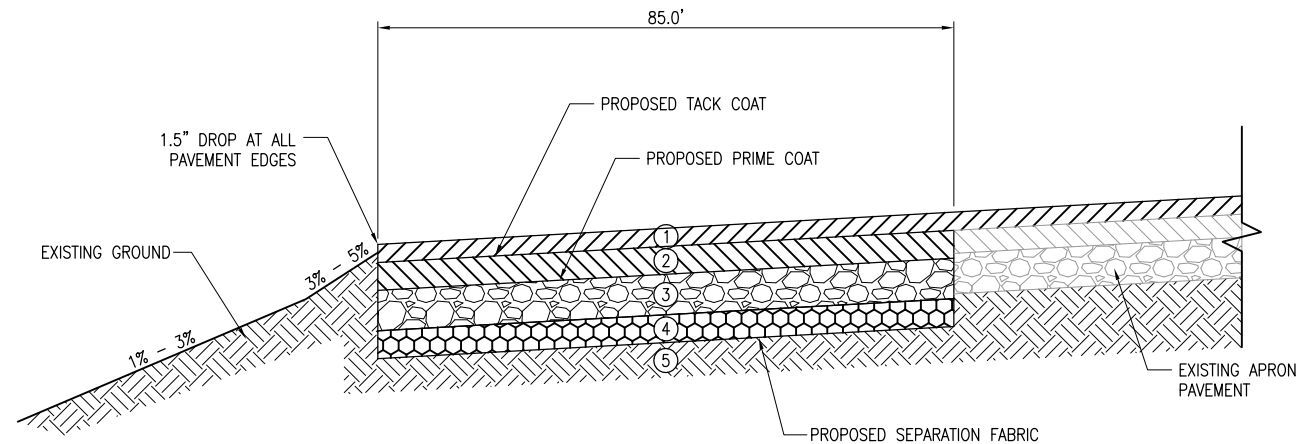
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NO.	DATE	DESCRIPTION		
		LAY	DWN	REV

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 PROJECT NO: 13A0065D
 CAD FILE: C-100-SP.DWG
 LAYOUT BY: LDH 1/22/14
 DRAWN BY: LDH 1/22/14
 REVIEWED BY: SJM 2/25/14

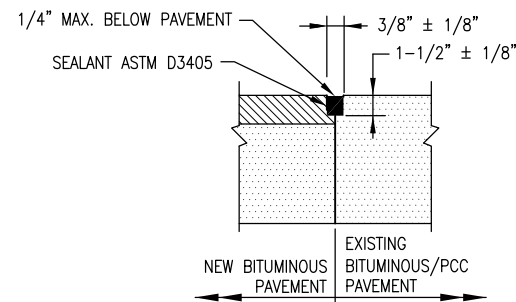
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 SHEET TITLE

SITE PLAN AND GENERAL NOTES



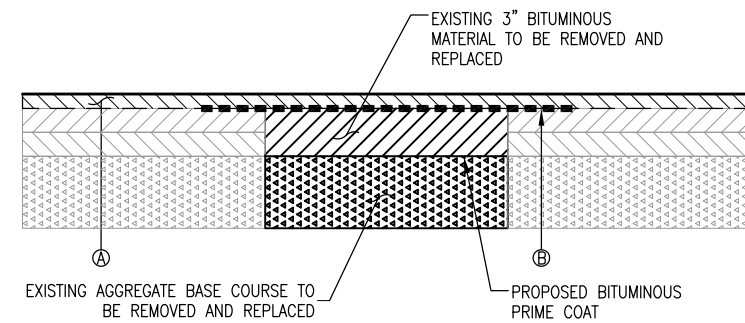
PROPOSED APRON TYPICAL SECTION
(LOOKING NORTH)
NOT TO SCALE

- LEGEND**
- ① PROPOSED AR401613: BITUMINOUS SURFACE COURSE 1.5" PER TON
 - ② PROPOSED AR403613: BITUMINOUS BASE COURSE 2.5" PER TON
 - ③ PROPOSED AR209608: AGGREGATE BASE COURSE 8" PER SQUARE YARD
 - ④ PROPOSED AR800928: GRANULAR DRAINAGE SUBBASE- 4" PER SQUARE YARD
 - ⑤ PROPOSED PREPARED SUBGRADE
SUBGRADE PREPARATION WITHIN 5 FEET OF PROPOSED PAVEMENT EDGE



NOTE:
ALL BITUMINOUS/BITUMINOUS AND BITUMINOUS/PCC JOINT SEALING TO BE PAID UNDER SAW AND SEAL BITUMINOUS JOINTS, ITEM AR401660.

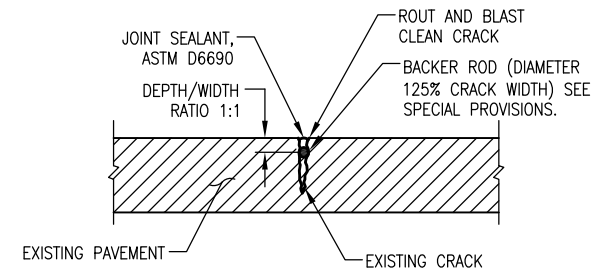
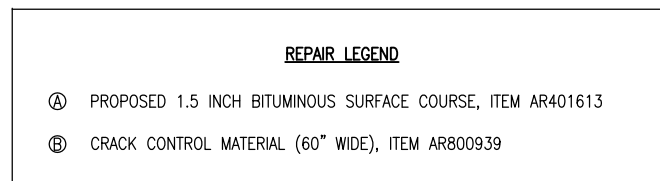
BITUMINOUS/BITUMINOUS OR BITUMINOUS/PCC SEAL



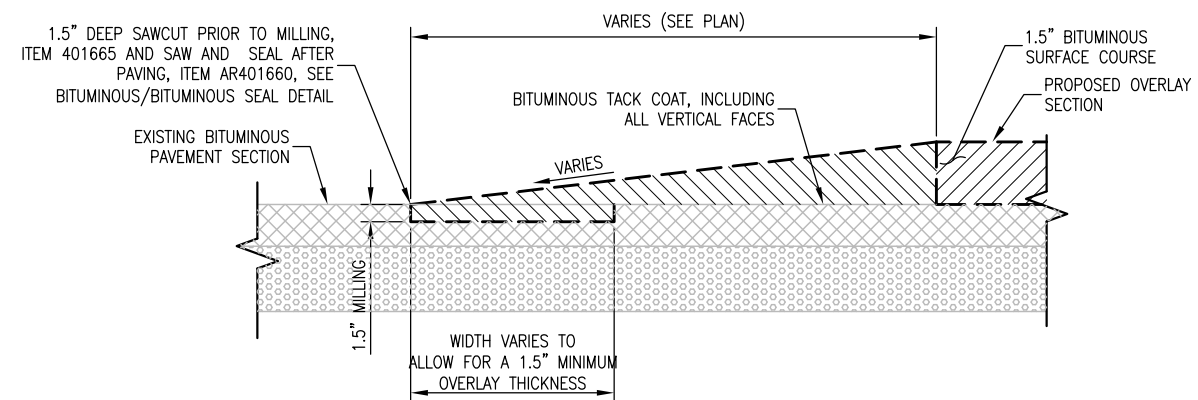
NOTES

1. CRACK CONTROL MATERIAL SHALL OVERLAP BITUMINOUS PATCH 6" EACH SIDE.
2. BITUMINOUS PAVEMENT SAWING TO BE PAID UNDER ITEM AR401665.
3. WHERE WIDTH IS GREATER THAN 60-INCHES, THE CRACK CONTROL MATERIAL SHALL BE OVERLAPED BY 12-INCHES. THE OVERLAP SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST FOR CRACK CONTROL MATERIAL

BITUMINOUS PAVEMENT REMOVAL/REPLACEMENT/REPAIR TYPE D



CLEAN AND SEAL CRACKS TYPE B



BITUMINOUS TAPER DETAIL

REHABILITATE AIRCRAFT PARKING APRON

IDA No: 9I0-4312

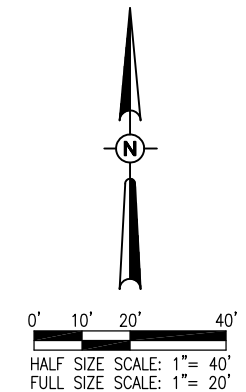
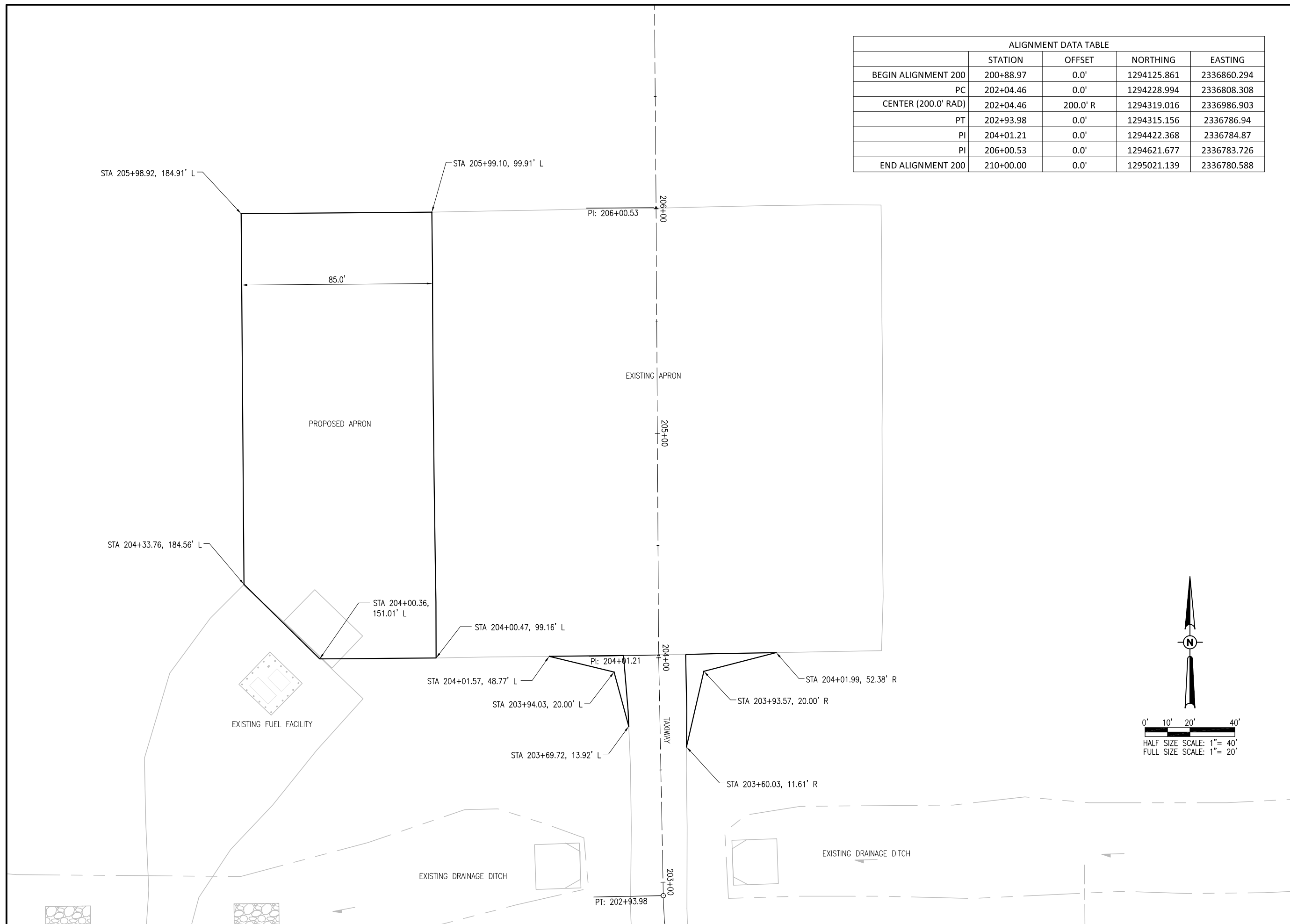
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NO.	DATE	DESCRIPTION		
		LAY	DWN	REV

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PROJECT NO: 13A0065D
CAD FILE: C-300-TYP.DWG
LAYOUT BY: LDH 9/19/13
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SHEET TITLE

TYPICAL SECTIONS AND PAVEMENT DETAILS

ALIGNMENT DATA TABLE				
	STATION	OFFSET	NORTHING	EASTING
BEGIN ALIGNMENT 200	200+88.97	0.0'	1294125.861	2336860.294
PC	202+04.46	0.0'	1294228.994	2336808.308
CENTER (200.0' RAD)	202+04.46	200.0' R	1294319.016	2336986.903
PT	202+93.98	0.0'	1294315.156	2336786.94
PI	204+01.21	0.0'	1294422.368	2336784.87
PI	206+00.53	0.0'	1294621.677	2336783.726
END ALIGNMENT 200	210+00.00	0.0'	1295021.139	2336780.588



REHABILITATE AIRCRAFT PARKING APRON

IDA No: 9I0-4312
Contract No.: HV007

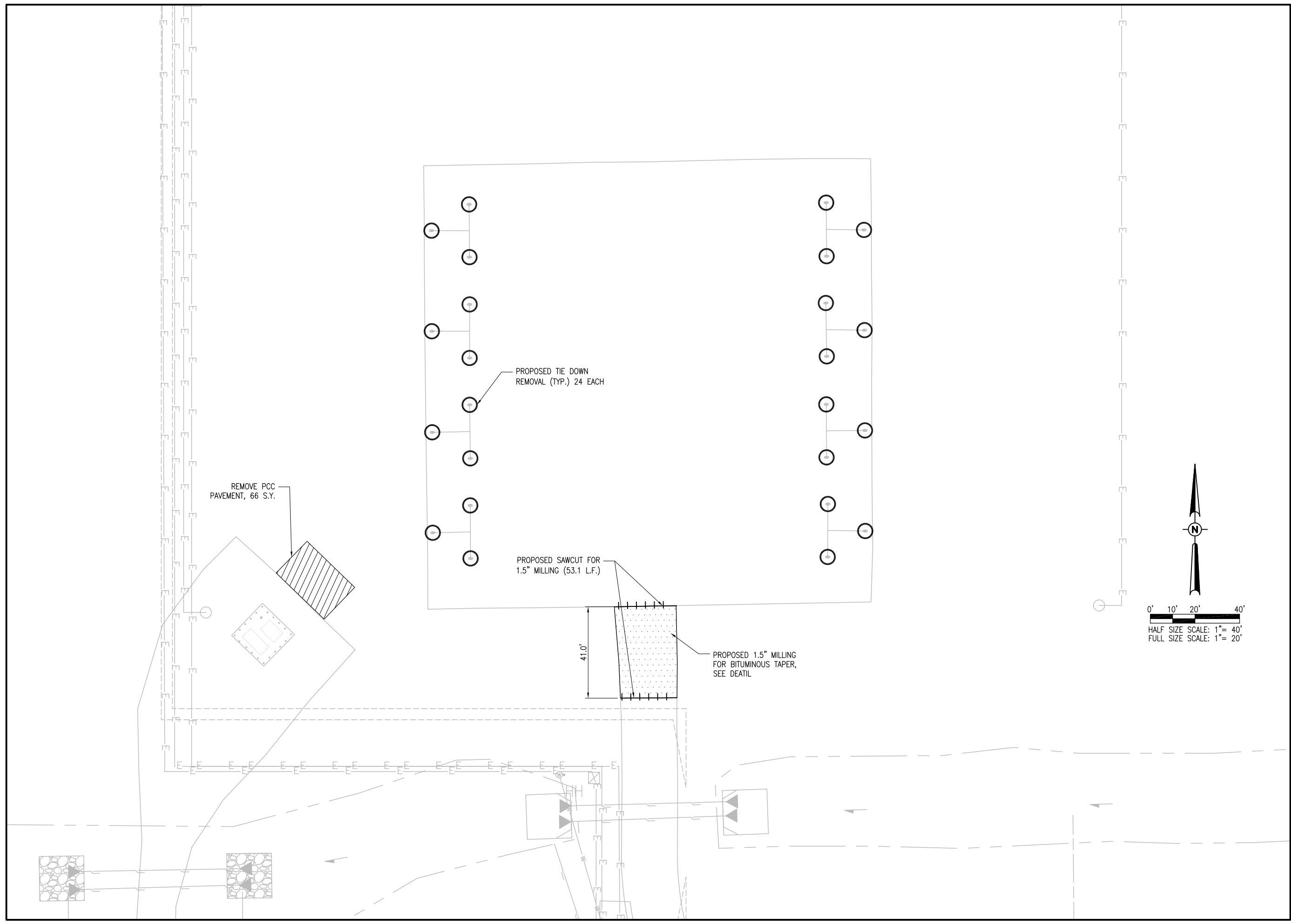
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DRAWN BY: LDH 1/23/14
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PAVEMENT LAYOUT AND ALIGNMENT DATA TABLE

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PROPOSED TIE DOWN
 REMOVAL (TYP.) 24 EACH

REMOVE PCC
 PAVEMENT, 66 S.Y.

PROPOSED SAWCUT FOR
 1.5" MILLING (53.1 L.F.)

41.0'

PROPOSED 1.5" MILLING
 FOR BITUMINOUS TAPER,
 SEE DETAIL

0' 10' 20' 40'
 HALF SIZE SCALE: 1" = 40'
 FULL SIZE SCALE: 1" = 20'

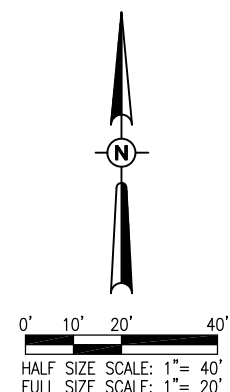
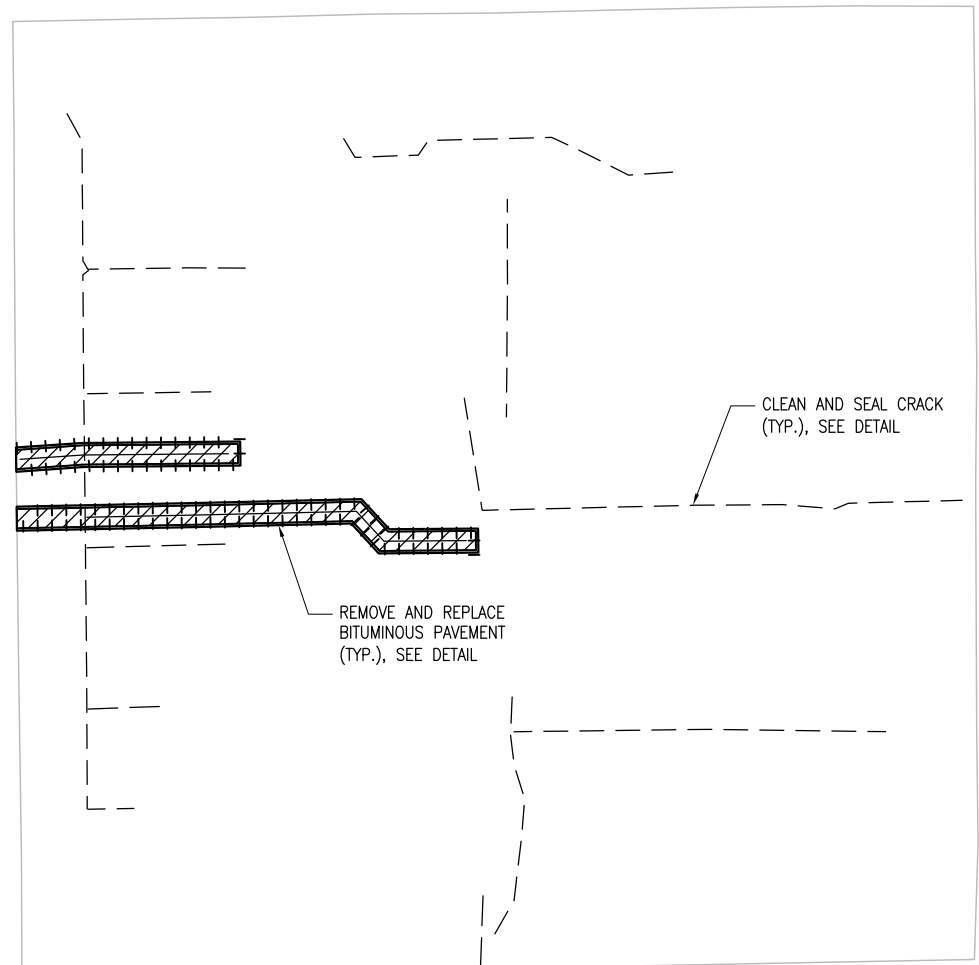
**REHABILITATE
 AIRCRAFT PARKING
 APRON**

IDA No: 9I0-4312
 Contract No.: HV007

NO.	DATE	DESCRIPTION		
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 SHEET TITLE

REMOVAL PLAN



NOTES:

1. COORDINATE REPAIR WITH RESIDENT ENGINEER.
2. FOR CRACK REPAIR DETAILS, SEE SHEET 4.
3. FOR ALIGNMENT DATA TABLE, SEE SHEET 5.
4. FOR REMOVE AND REPLACE BITUMINOUS PAVEMENT, PAVEMENT SHALL BE REMOVED TO 2.0 FEET OUTSIDE OF REPAIR AREA.

LEGEND

- CLEAN AND SEAL TYPE B CRACK
- REMOVE AND REPLACE BITUMINOUS PAVEMENT, TYPE D CRACK

REHABILITATE AIRCRAFT PARKING APRON

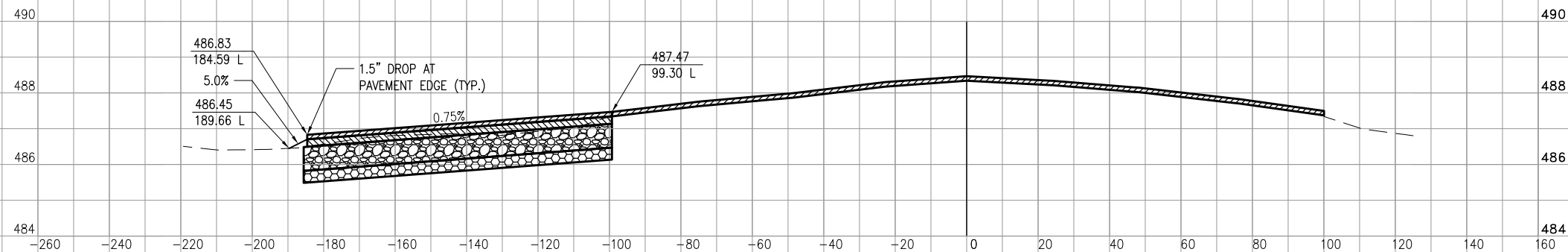
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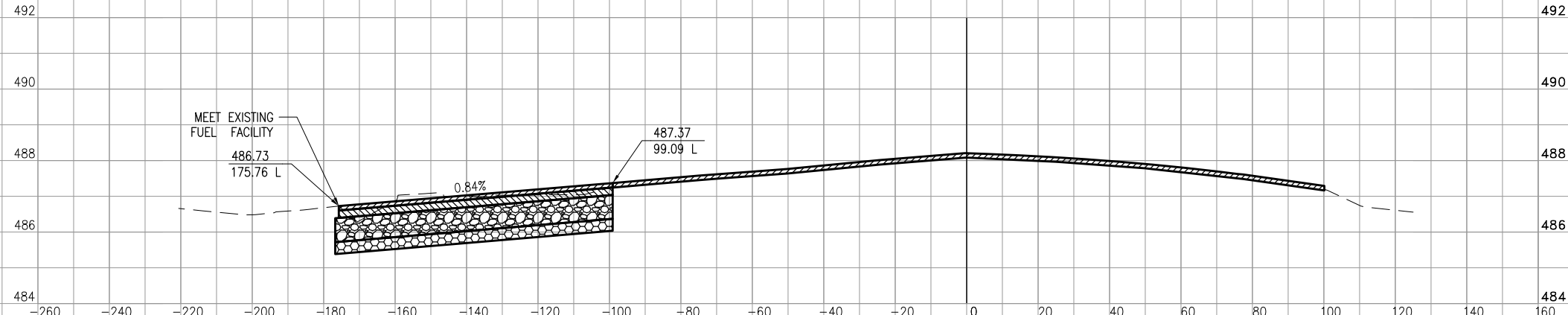
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CRACK REPAIR PLAN

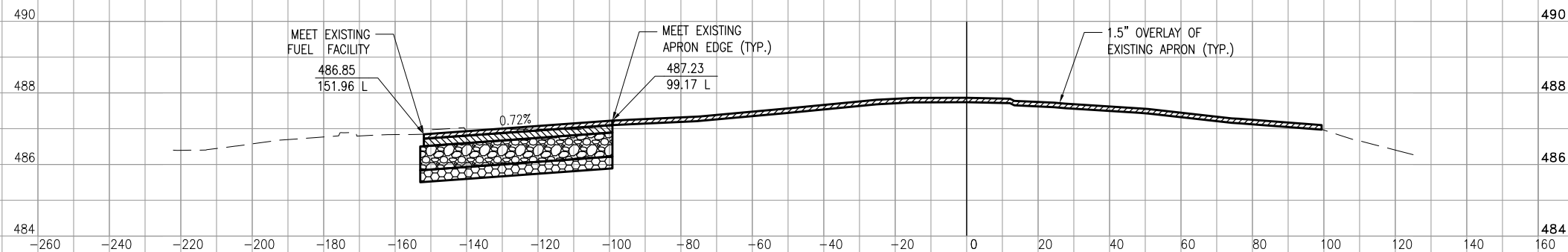
STA.
204+50



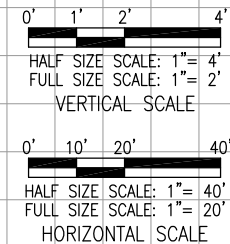
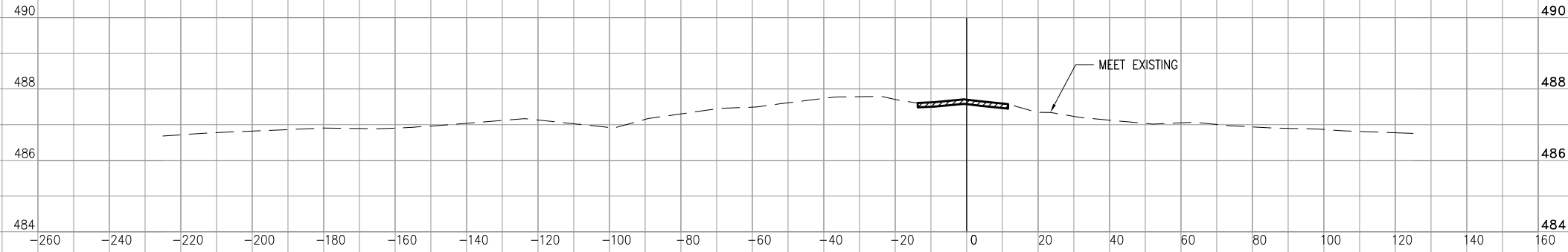
STA.
204+25



STA.
204+01



STA.
203+60



REHABILITATE
AIRCRAFT PARKING
APRON

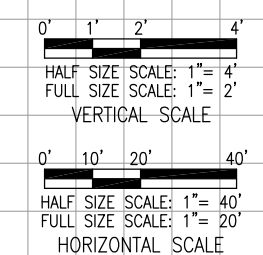
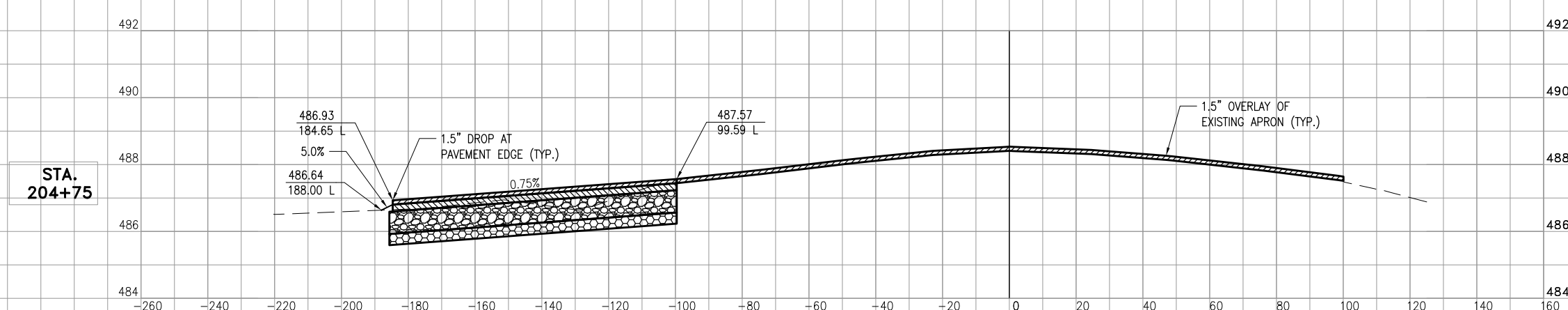
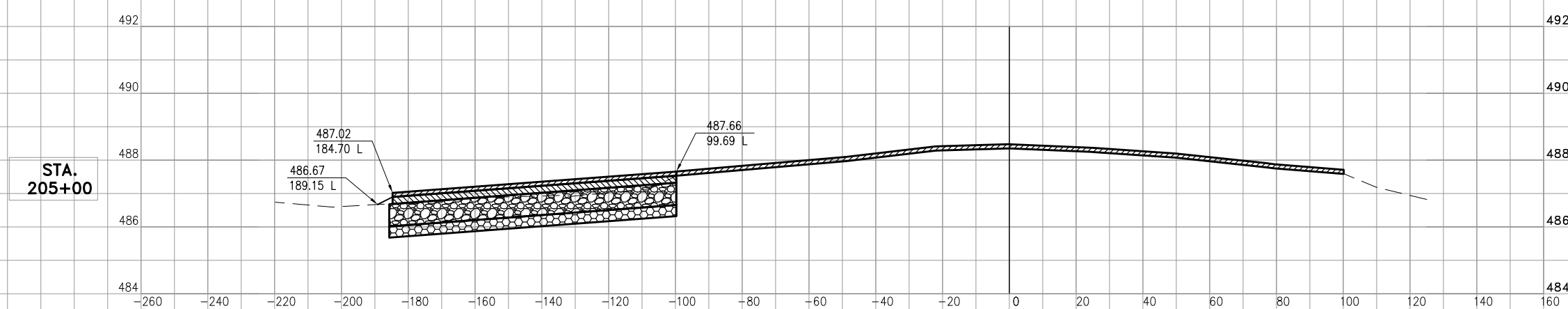
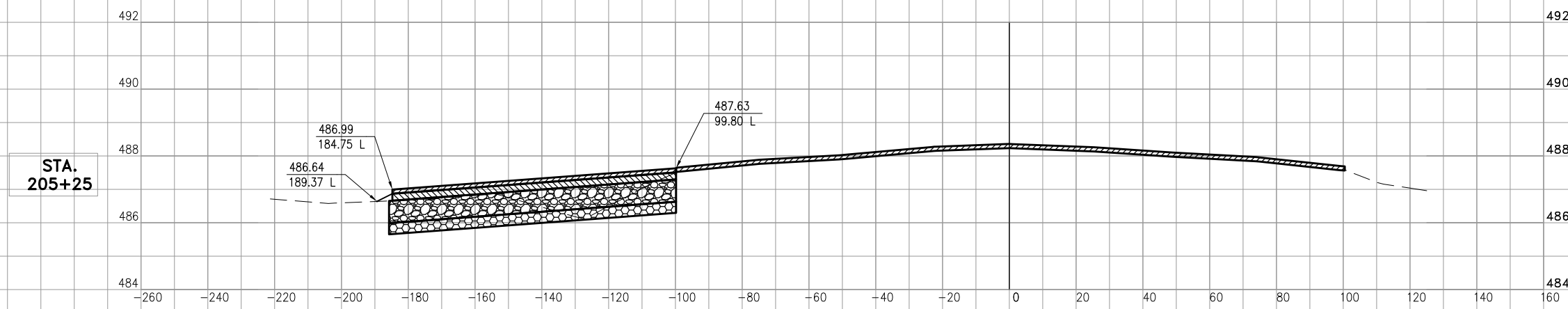
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Contract No.: HV007

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REVIEWED BY: SJM 2/25/14

SHEET TITLE
**APRON
CROSS SECTIONS
STA. 203+60.16-204+50**



REHABILITATE
AIRCRAFT PARKING
APRON

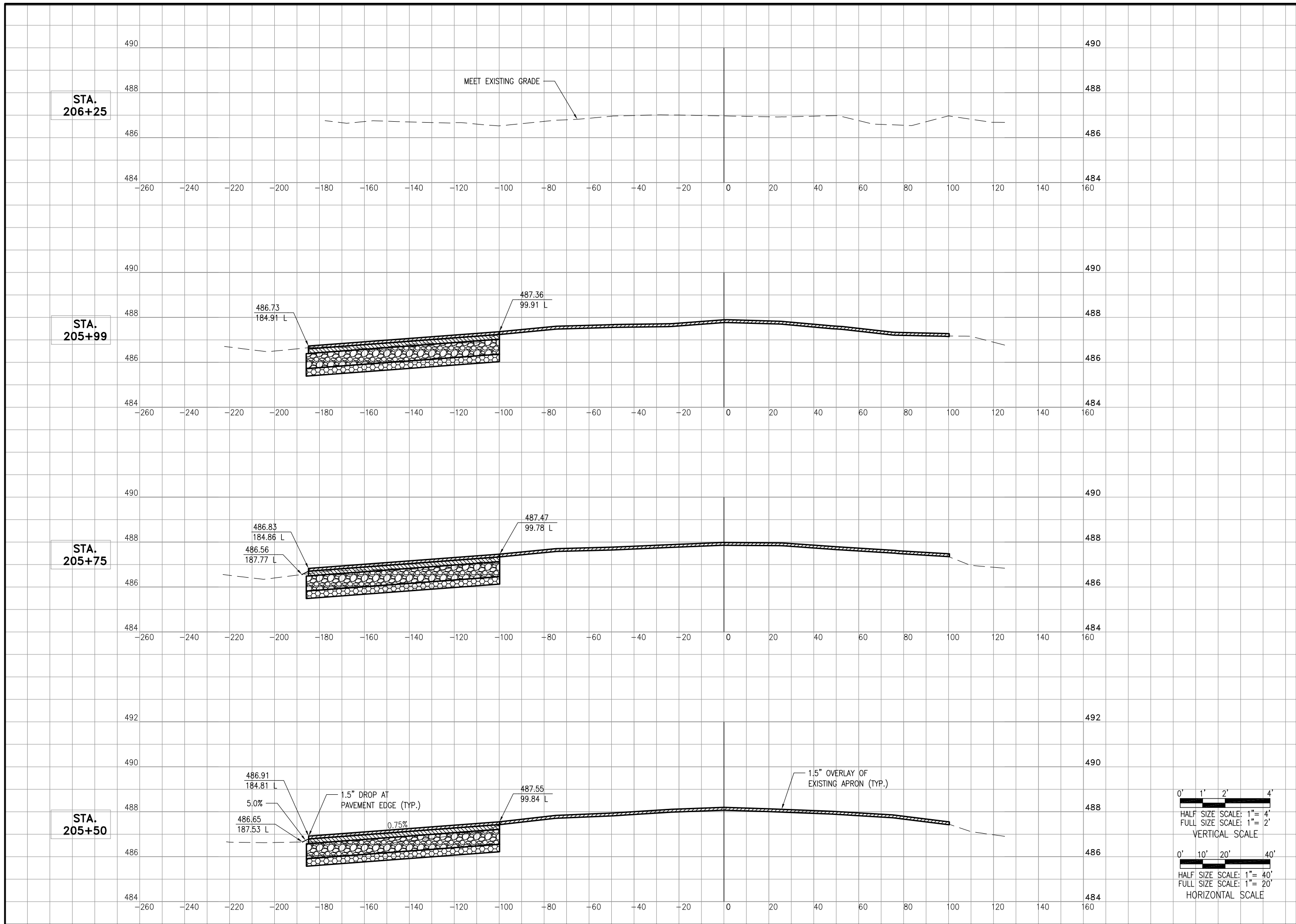
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Contract No.: HV007

NO.	DATE	DESCRIPTION		
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 SHEET TITLE

APRON
CROSS SECTIONS
STA. 204+75 - 205+25

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REHABILITATE AIRCRAFT PARKING APRON

IDA No: 910-4312

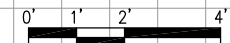
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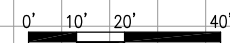
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 CAD FILE: C-303-APN.DWG
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 DRAWN BY: LDH 1/27/14
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SHEET TITLE

APRON CROSS SECTIONS STA. 205+50 - 206+25



HALF SIZE SCALE: 1" = 4'
FULL SIZE SCALE: 1" = 2'
VERTICAL SCALE

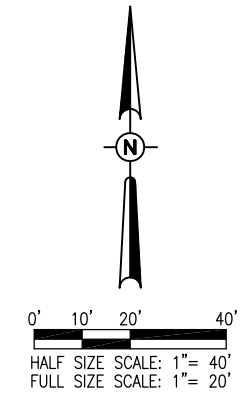
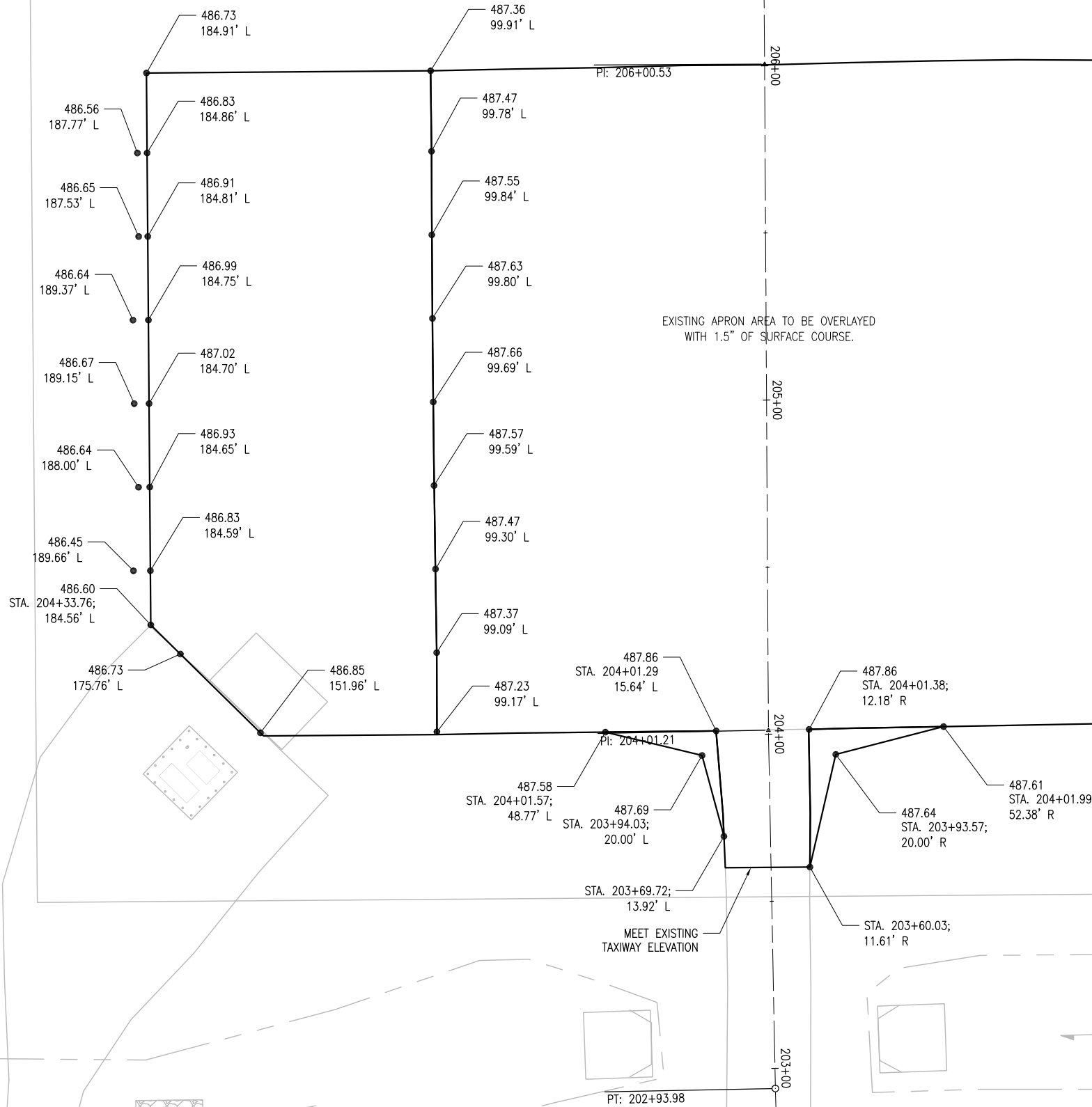


HALF SIZE SCALE: 1" = 40'
FULL SIZE SCALE: 1" = 20'
HORIZONTAL SCALE

REGRADE NORTH EDGE OF APRON TO MEET EXISTING
AT 25 FEET OFF PAVEMENT EDGE TO SMOOTH
TRANSITION BETWEEN TURF AND PAVED AREAS

EXISTING APRON AREA TO BE OVERLAPPED
WITH 1.5" OF SURFACE COURSE.

- STA. 205+99
- STA. 205+75
- STA. 205+50
- STA. 205+25
- STA. 205+00
- STA. 204+75
- STA. 204+50
- STA. 204+25
- STA. 204+01.30



REHABILITATE
AIRCRAFT PARKING
APRON

IDA No: 9I0-4312

Contract No.: HV007

NO.	DATE	DESCRIPTION		
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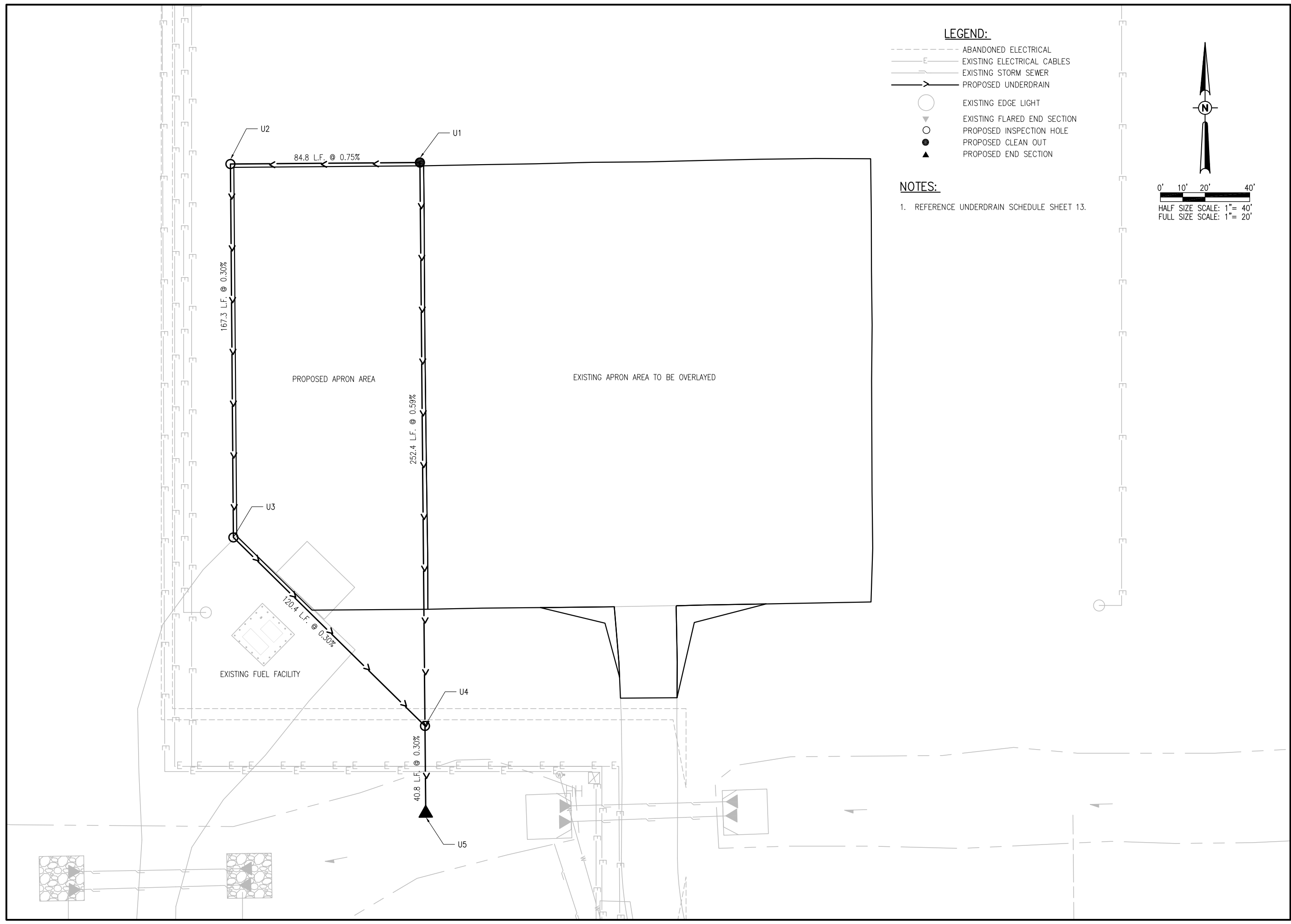
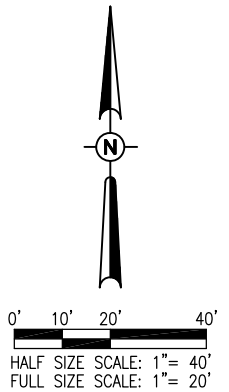
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SHEET TITLE

APRON STAKING
PLAN

- LEGEND:**
- ABANDONED ELECTRICAL
 - EXISTING ELECTRICAL CABLES
 - EXISTING STORM SEWER
 - PROPOSED UNDERDRAIN
 - EXISTING EDGE LIGHT
 - ▽ EXISTING FLARED END SECTION
 - PROPOSED INSPECTION HOLE
 - PROPOSED CLEAN OUT
 - ▲ PROPOSED END SECTION

NOTES:

- REFERENCE UNDERDRAIN SCHEDULE SHEET 13.



REHABILITATE AIRCRAFT PARKING APRON

IDA No: 9I0-4312
Contract No.: HV007

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DRAINAGE PLAN

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HAVANA REGIONAL AIRPORT
509 East Laurel Avenue
Havana, IL 62655

UNDERDRAIN SCHEDULE

STRUCTURE	STATION	OFFSET	TYPE	RIM EL.	INVERT EL.	PAY LENGTH	SLOPE %
U1	206+00.81	101.57 LT	CLEANOUT	487.17	485.17	84.8	0.75
U2	206+00.81	186.41 LT	INSPECTION HOLE	486.53	484.53	167.3	0.30
U3	204+33.14	186.06 LT	INSPECTION HOLE	486.40	484.03	120.4	0.30
U4	203+49.57	101.47 LT	INSPECTION HOLE	486.89	483.67	40.8	0.30
U5	203+08.75	101.89 LT	END SECTION	---	483.55		
U1	206+00.81	101.57 LT	CLEANOUT	487.17	485.17	252.4	0.59
U4	203+49.57	101.47 LT	INSPECTION HOLE	486.89	483.67		

REHABILITATE
AIRCRAFT PARKING
APRON

IDA No: 9I0-4312

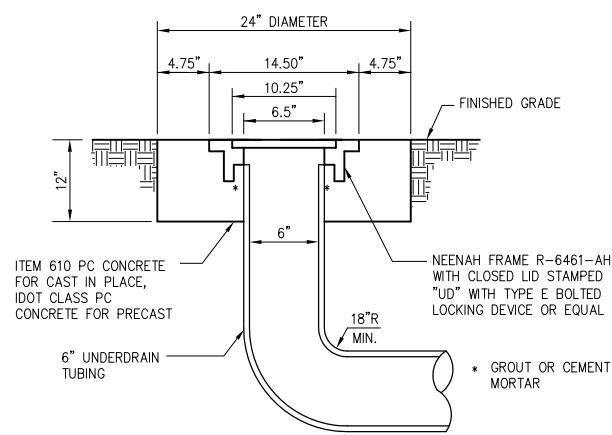
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		LAY	DWN	REV

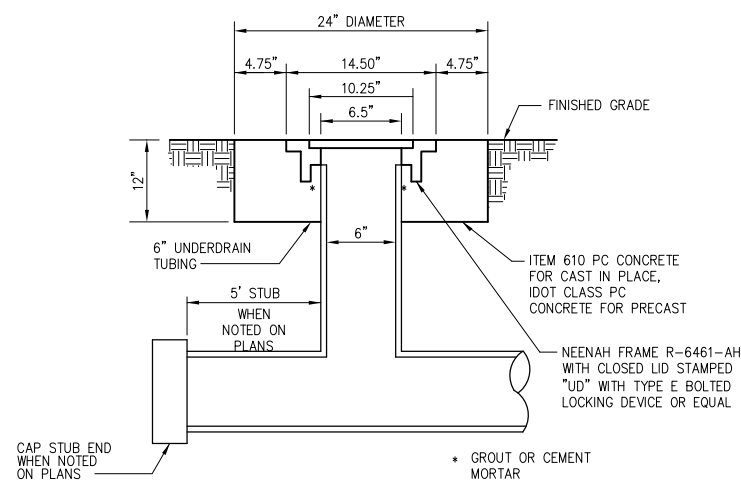
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UNDERDRAIN
SCHEDULE

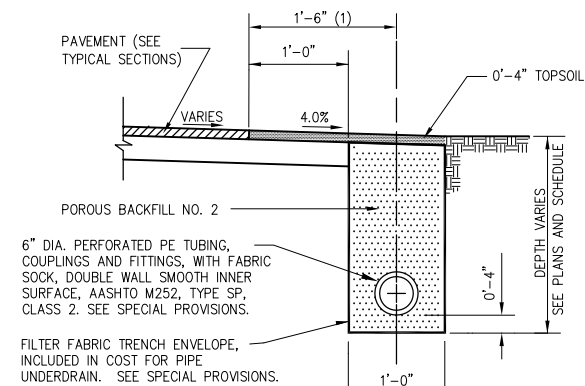
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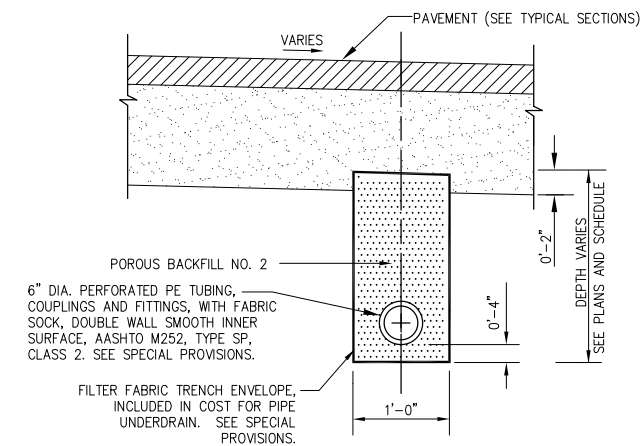
UNDERDRAIN CLEANOUT



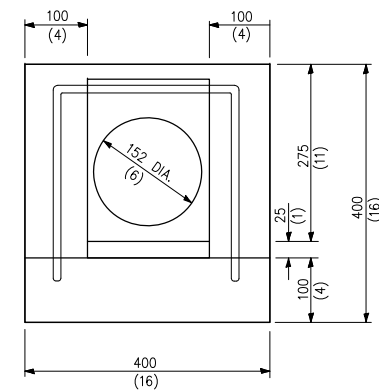
UNDERDRAIN INSPECTION HOLE



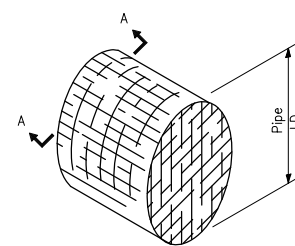
UNDERDRAIN ALONG PAVEMENT EDGE



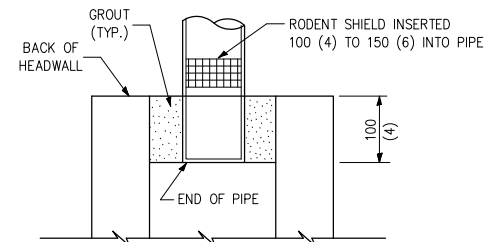
UNDERDRAIN UNDER PAVEMENT



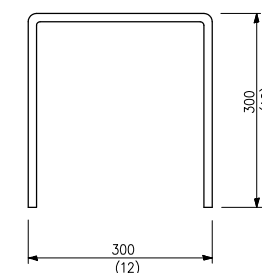
FRONT VIEW



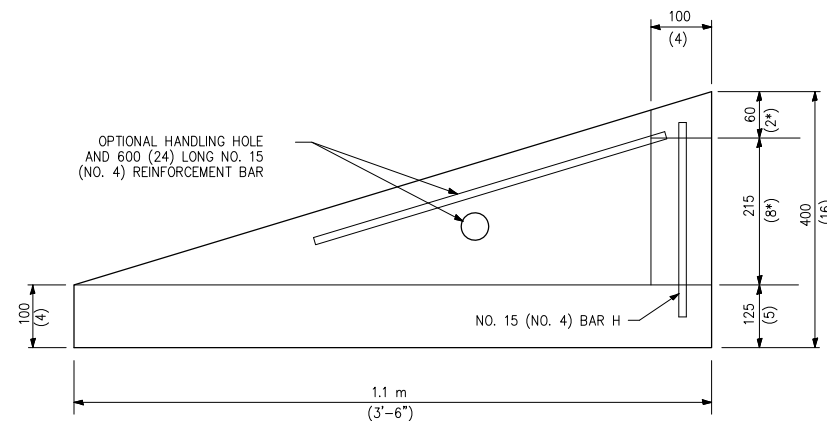
DETAIL OF RODENT SHIELD



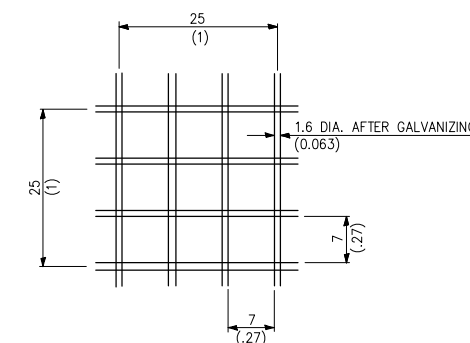
RODENT SHIELD PLACEMENT



BAR h



SIDE VIEW



SECTION A-A

- NOTES**
1. HEADWALL CONSTRUCTION SHALL MEET IDOT STANDARD 601101 WITH OPENING MODIFIED TO ACCEPT 6 INCH I.D. PERFORATED UNDERDRAIN PIPE.
 2. PRECAST CONCRETE SHALL BE IDOT CLASS PC MIX.
 3. RODENT SHIELD SHALL BE FURNISHED INCIDENTAL TO HEADWALL.
 4. DRAIN PIPE SHALL BE GROUTED AND SEALED TO THE HEADWALL OPENING WITH CEMENT MORTAR.
 5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

UNDERDRAIN END SECTION
(ITEM 705620)

REHABILITATE
AIRCRAFT PARKING
APRON

IDA No: 9I0-4312

Contract No.: HV007

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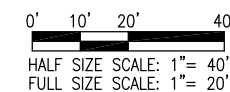
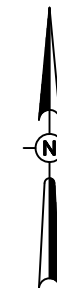
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**UNDERDRAIN
DETAILS**

TIE DOWN SCHEDULE		
ITEM NO.	STATION	OFFSET (FEET)
1	204+13.16	79.28 R
2	204+31.20	96.25 R
3	204+49.16	79.21 R
4	204+59.16	79.19 R
5	204+77.20	96.15 R
6	204+95.16	79.11 R
7	205+05.16	79.09 R
8	205+23.20	96.05 R
9	205+41.16	79.01 R
10	205+51.16	78.99 R
11	205+69.20	95.95 R
12	205+87.16	78.92 R
13	205+79.20	53.87 L
14	205+96.16	71.90 L
15	205+79.12	89.87 L
16	205+79.10	99.87 L
17	205+96.06	117.90 L
18	205+79.03	135.87 L
19	205+79.00	145.87 L
20	205+95.97	163.90 L
21	205+78.93	181.87 L

NOTES:

- GLASS SPHERES REQUIRED FOR ALL YELLOW MARKINGS.



**REHABILITATE
AIRCRAFT PARKING
APRON**

IDA No: 9I0-4312

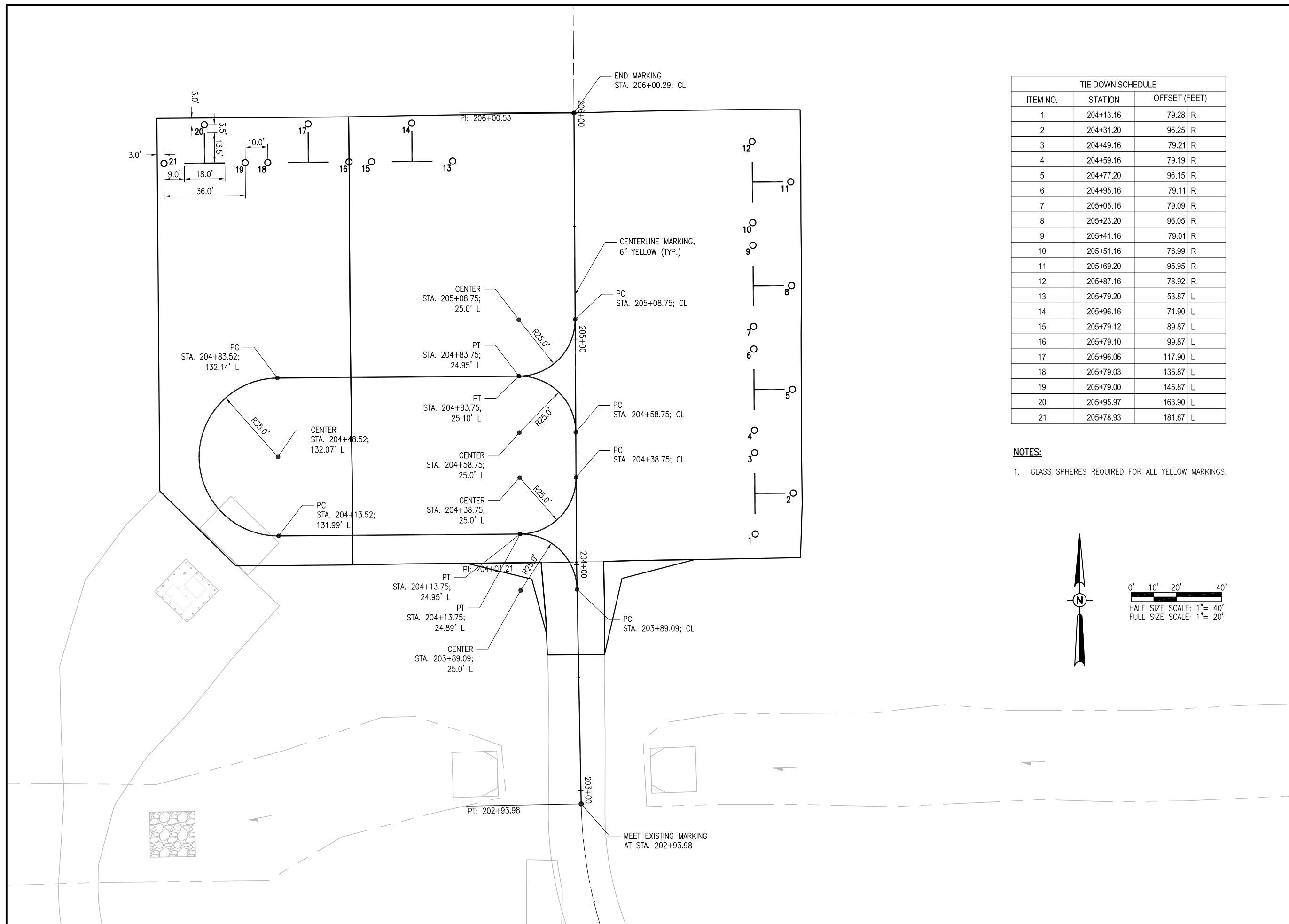
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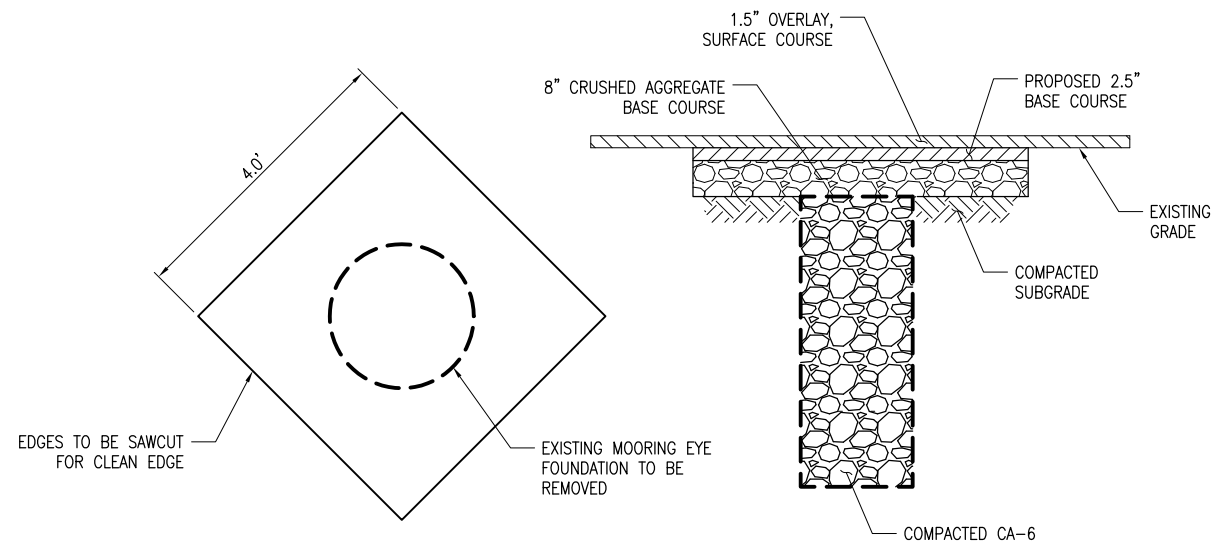
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**MARKING PLAN
AND TIEDOWN
LAYOUT**



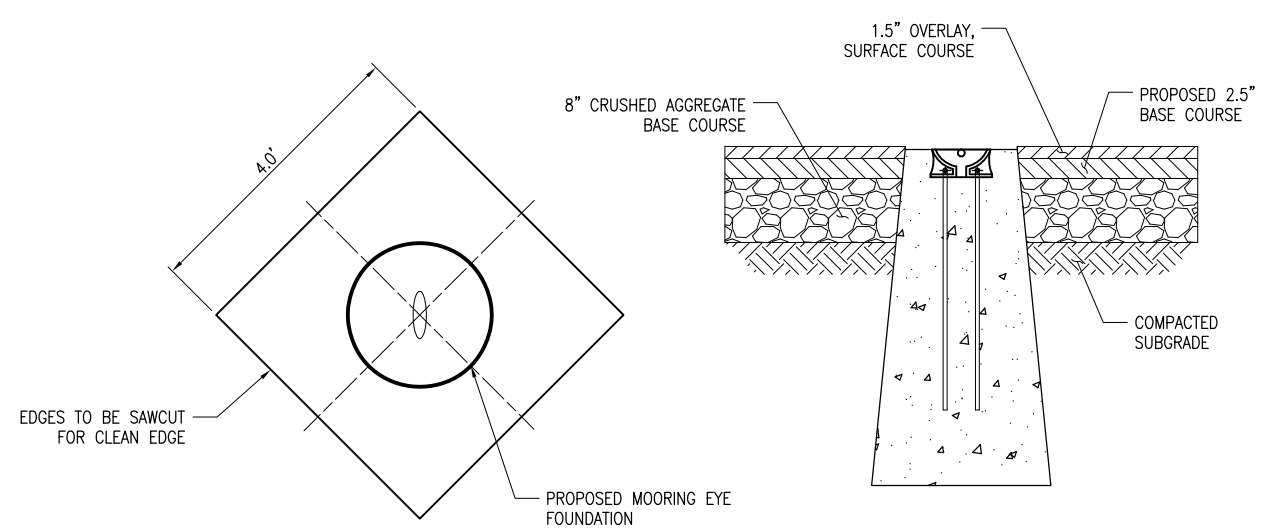
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NOTES:

1. SAWCUT, PAVEMENT REMOVAL, EXCAVATION AND DISPOSAL, AND BACKFILL SHALL BE INCIDENTAL TO REMOVE TIE DOWN.
2. 8" CRUSHED AGGREGATE BASE COURSE, PRIME COAT, AND BITUMINOUS BASE COURSE SHALL BE PAID FOR UNDER ITEM AR800999 PAVEMENT RESTORATION.
3. TACK COAT AND BITUMINOUS SURFACE COURSE TO BE PAID FOR UNDER AR603510 AND AR401613 RESPECTIVELY.

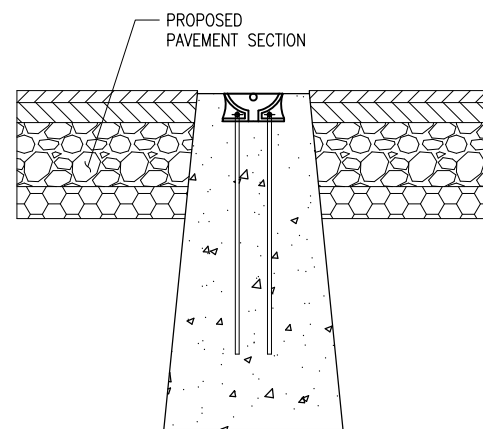
TIE DOWN REMOVAL



NOTES:

1. SAWCUT, PAVEMENT REMOVAL, EXCAVATION, BACKFILL, CONCRETE FOUNDATION AND MOORING EYE SHALL BE INCIDENTAL TO REPLACE TIE DOWN.
2. 8" CRUSHED AGGREGATE BASE COURSE, PRIME COAT, AND BITUMINOUS BASE COURSE SHALL BE PAID FOR UNDER ITEM AR800999 PAVEMENT RESTORATION.
3. TACK COAT AND BITUMINOUS SURFACE COURSE TO BE PAID FOR UNDER AR603510 AND AR401613 RESPECTIVELY.

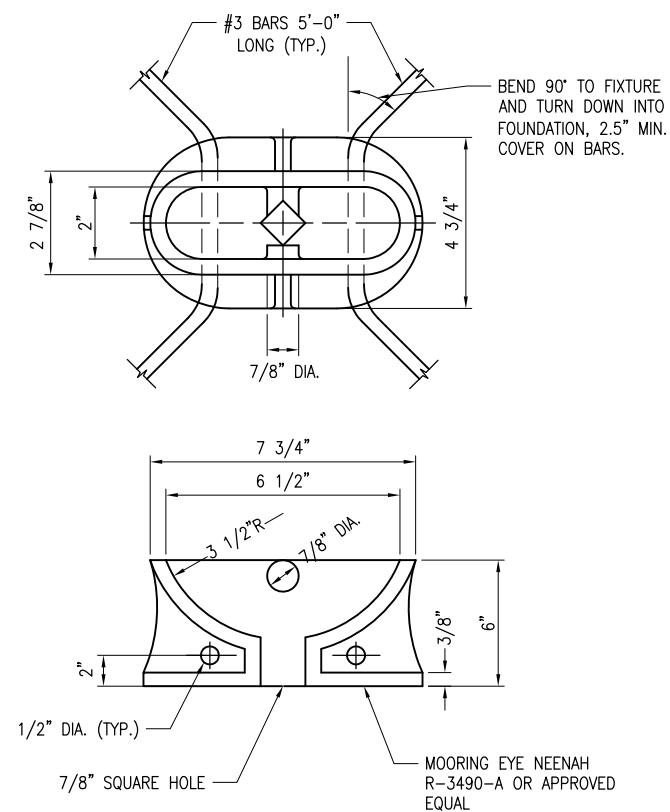
REPLACE TIEDOWN - NEW TIE DOWN IN EXISTING PAVEMENT



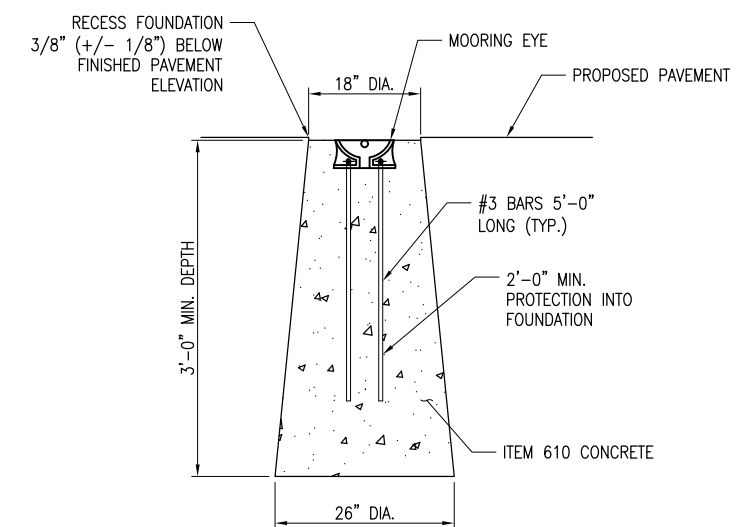
NOTES:

1. EXCAVATION, BACKFILL, CONCRETE FOUNDATION AND MOORING EYE SHALL BE INCIDENTAL TO TIE DOWN.

TIE DOWN - NEW TIE DOWN IN NEW PAVEMENT AREA



TIE DOWN (MOORING EYE)



REHABILITATE AIRCRAFT PARKING APRON

IDA No: 910-4312

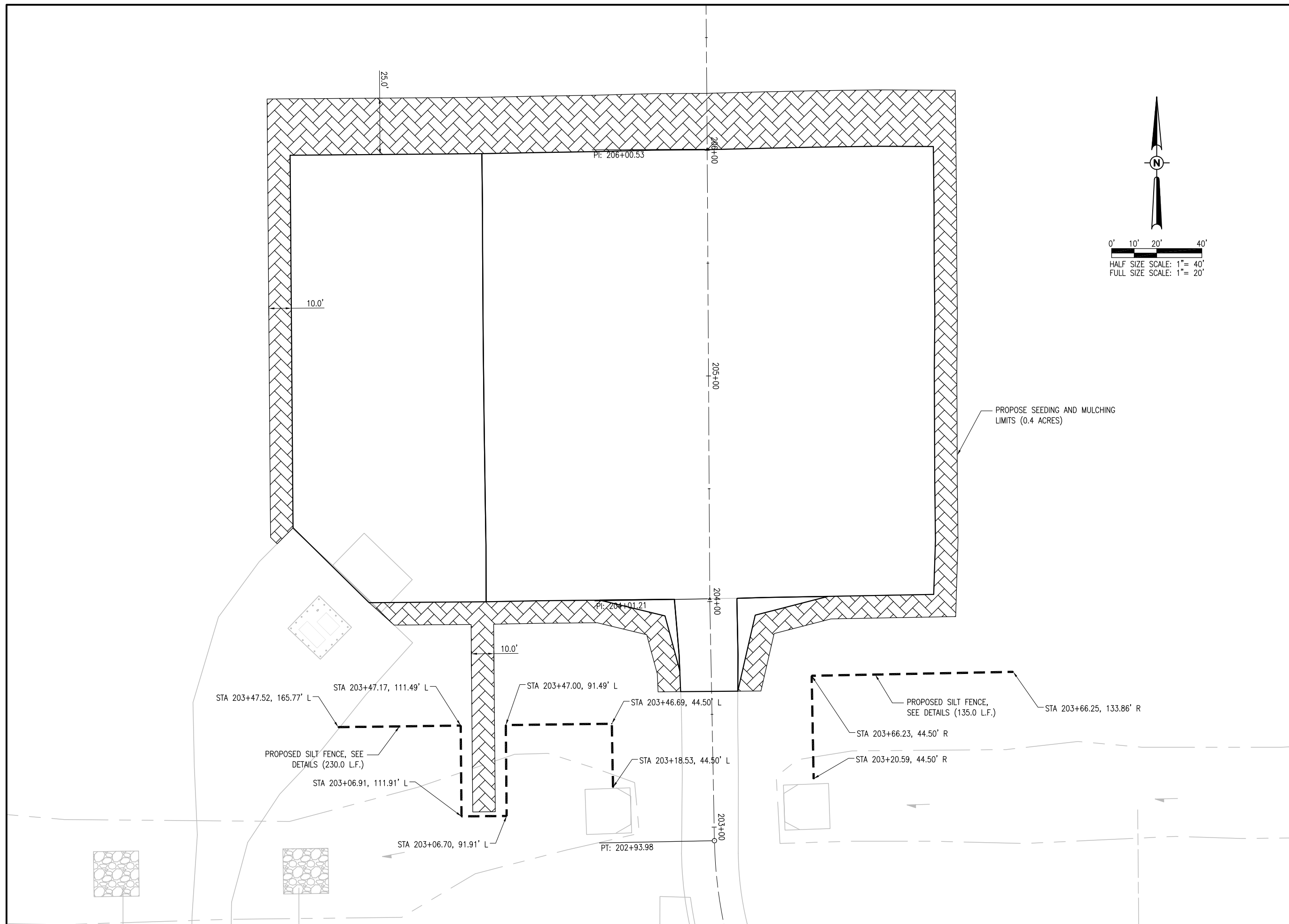
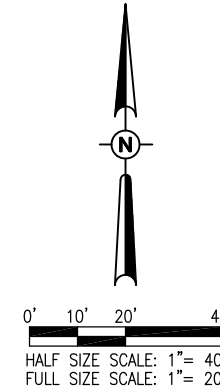
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TIE DOWN DETAILS



PROPOSE SEEDING AND MULCHING LIMITS (0.4 ACRES)

PROPOSED SILT FENCE, SEE DETAILS (230.0 L.F.)

PROPOSED SILT FENCE, SEE DETAILS (135.0 L.F.)

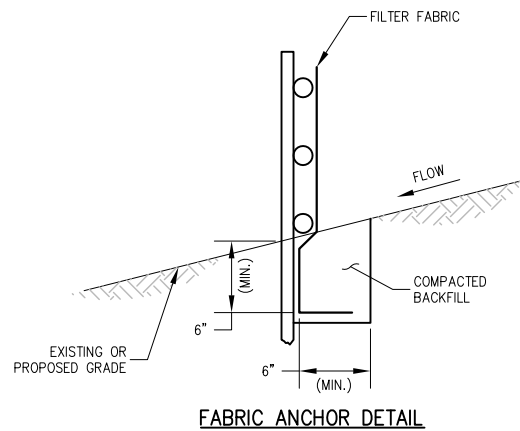
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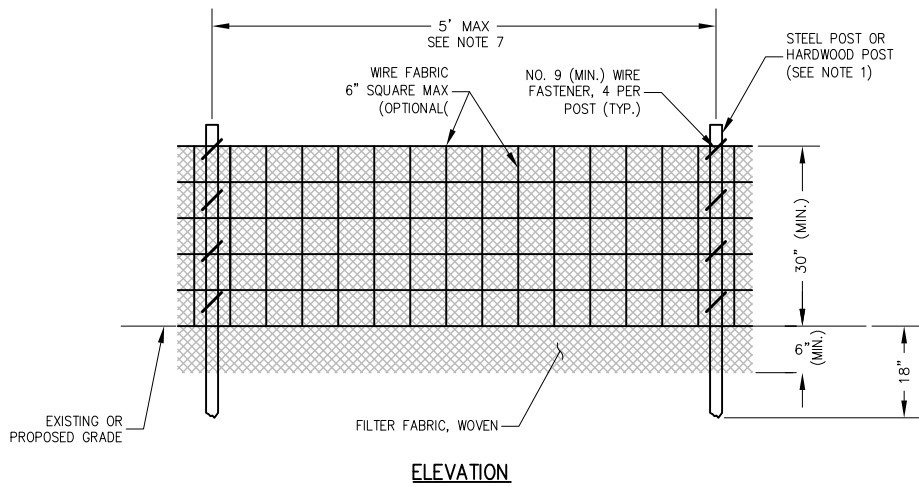
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LANDSCAPING AND SWPP PLAN



FABRIC ANCHOR DETAIL



ELEVATION

NOTES:

1. FENCE POST SHALL BE EITHER STEEL "T" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 2.0 SQUARE INCHES. A CARPENTER'S (NOMINAL) 2"x2" POST WILL MEET SPECIFICATIONS.
2. TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
3. WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
4. FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
6. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH APPARENT OPENING SIZE (AOS) OF AT LEAST 40 FOR NONWOVEN AND WOVEN (OR MAXIMUM OF 0.60mm).
7. A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
8. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
9. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
10. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
11. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
12. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
13. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.
14. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

SEDIMENTATION AND EROSION CONTROL NOTES:

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- C. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- D. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- E. EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- F. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- G. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- H. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- I. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- J. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- L. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

REHABILITATE AIRCRAFT PARKING APRON

IDA No: 910-4312

Contract No.: HV007

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SWPPP DETAILS