

Hartsfield-Jackson Atlanta International Airport

City of Atlanta

Department of Aviation

Office of Infrastructure Planning & Development

Tenant

New Construction and Modifications

Design Standards

Civil Engineering

Design Standards Civil

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Design Standards Civil

1.0 Purpose

- A. The purpose of this document is to provide the Tenant and their Designer of Record with the Civil design detail standards and specifications that shall be used for any new construction and/or modification at Hartsfield-Jackson Atlanta International Airport.

2.0 General

- A. All design work shall be performed in accordance with generally accepted professional principles and practices for civil engineering and in compliance with all applicable Federal, State and City of Atlanta Design Codes, Standards and Regulations and the following DOA/P&D Civil Design Standards and Specifications:

3.0 DOA/P&D Civil Design Standards (Attached)4

- A. Airside – Runways, Taxiways & Aprons

STD-01-100	Airfield Typical Pavement Sections
STD-01-200	Typical Pavement Sections NLVR
STD-01-300	Apron Underdrain Details – New Pavement
STD-01-301	Underdrain Details – Replacement Projects
STD-01-400	In-Pavement Manholes
STD-01-500	In-Pavement Inlets Type “A”
STD-01-501	In-Pavement Inlets Type “B” and Type “B” Mod. Detail
STD-01-502	In-Pavement Inlets type “D”
STD-01-503	Slope Drain Detail
STD-01-504	Paved Drainage Path Detail
STD-01-505	Miscellaneous Drainage Details
STD-01-600	Pavement Joint Details-New Projects
STD-01-700	Pavement Joint Details- Replacement Projects 1
STD-01-701	Pavement Joint Details- Replacement Projects 2
STD-01-702	Existing Pavement Removal and Replacement of Hydrants
STD-01-703	Spall and Joint Repair Details
STD-01-704	Typical Spall Repair Rebar Placement Detail
STD-01-705	Retrofit Conduit Trench Repair Detail
STD-01-800	Apron Striping and Marking – 1
STD-01-801	Apron NLVR Striping and Signage
STD-01-802	Runway Striping and Marking – 1
STD-01-803	Runway Striping and Marking – 2
STD-01-804	Taxiway Striping, Marking, and Signage
STD-01-805	Taxiway Striping and Marking
STD-01-900	Miscellaneous Airfield Details

A. Landside – Roads & Parking

STD-02-100	Typical Pavement Sections – Roadways
STD-02-101	Typical Pavement Sections - Parking
STD-02-200	Joints – NLVR or Landside Roads
STD-02-300	Landside Striping and Marking Details
STD-02-400	Landside Signage
STD-02-500	Landside Drainage - 1
STD-02-501	Landside Drainage - 2

B. General Details

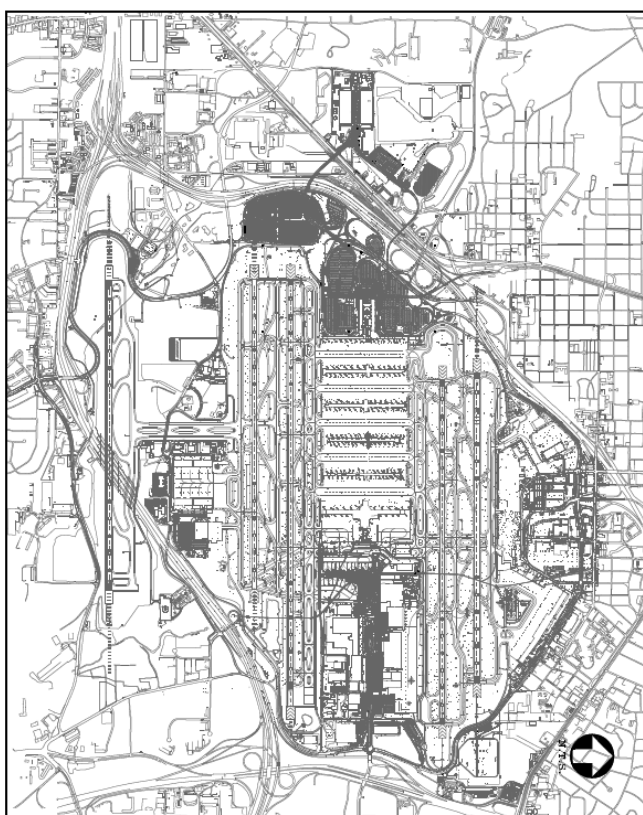
STD-03-100	Settlement Platforms
STD-03-200	Chain Link Fences – 1
STD-03-201	Chain Link Fences – 2
STD-03-202	Chain Link Fences – 3
STD-03-203	Chain Link Fences – 4
STD-03-204	Chain Link Fences – 5
STD-03-205	Chain Link Fences – 6
STD-03-206	Chain Link Fences- Signage
STD-03-300	Typical Grease Interceptor Installation
STD-03-301	Typical Grease Interceptor Installation
STD-03-302	Below Pavement Grease Interceptor
STD-03-303	Utility Slab Detail for Interceptor Below Pavement
STD-03-304	Additional Pavement Removal
STD-03-400	Pipe Bedding Type “B” and “C” Paved Ditch Detail
STD-03-401	Precast Junction Chamber
STD-03-402	Concrete Pipe Collar, Cleanout, Cap for Exist. Inlet
STD-03-403	Riser Tee Manhole for Existing or Proposed Pipe
STD-03-404	Misc Pipe Details
STD-03-405	Waterline Bedding and Excavation Section
STD-03-500	Standard Manhole and Type “E” Inlet
STD-03-600	Bollard Details
STD-03-601	Miscellaneous Paving and Bumper Block Details
STD-03-700	General Notes and Construction Control Plan Airside
STD-03-701	General Notes and Construction Control Plan Landside

CITY OF ATLANTA, GEORGIA
Hartsfield-Jackson
Atlanta International Airport

**DEPARTMENT OF AVIATION
PLANNING & DEVELOPMENT**



DOA CIVIL STANDARD DETAILS



CHANGES TO THESE STANDARDS SHALL BE APPROVED BY DOA IN ADVANCE OF SUBMITTAL.

DOA CIVIL STANDARD DETAILS

1	06/2014	RPM	REVISED
0	06/20/2014	RPM	FIRST ISSUE
NO.	DATE	BY	REVISION

THESE DRAWINGS SHOULD NOT BE USED FOR CONSTRUCTION UNLESS NOTED BELOW AS "RELEASED FOR CONSTRUCTION" AND SIMILARLY NOTED ON EACH INDIVIDUAL DRAWING.

DATE: _____

STANDARD NO. 100

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NOT RELEASED FOR CONSTRUCTION

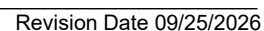
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Hartsfield-Jackson Atlanta International Airport





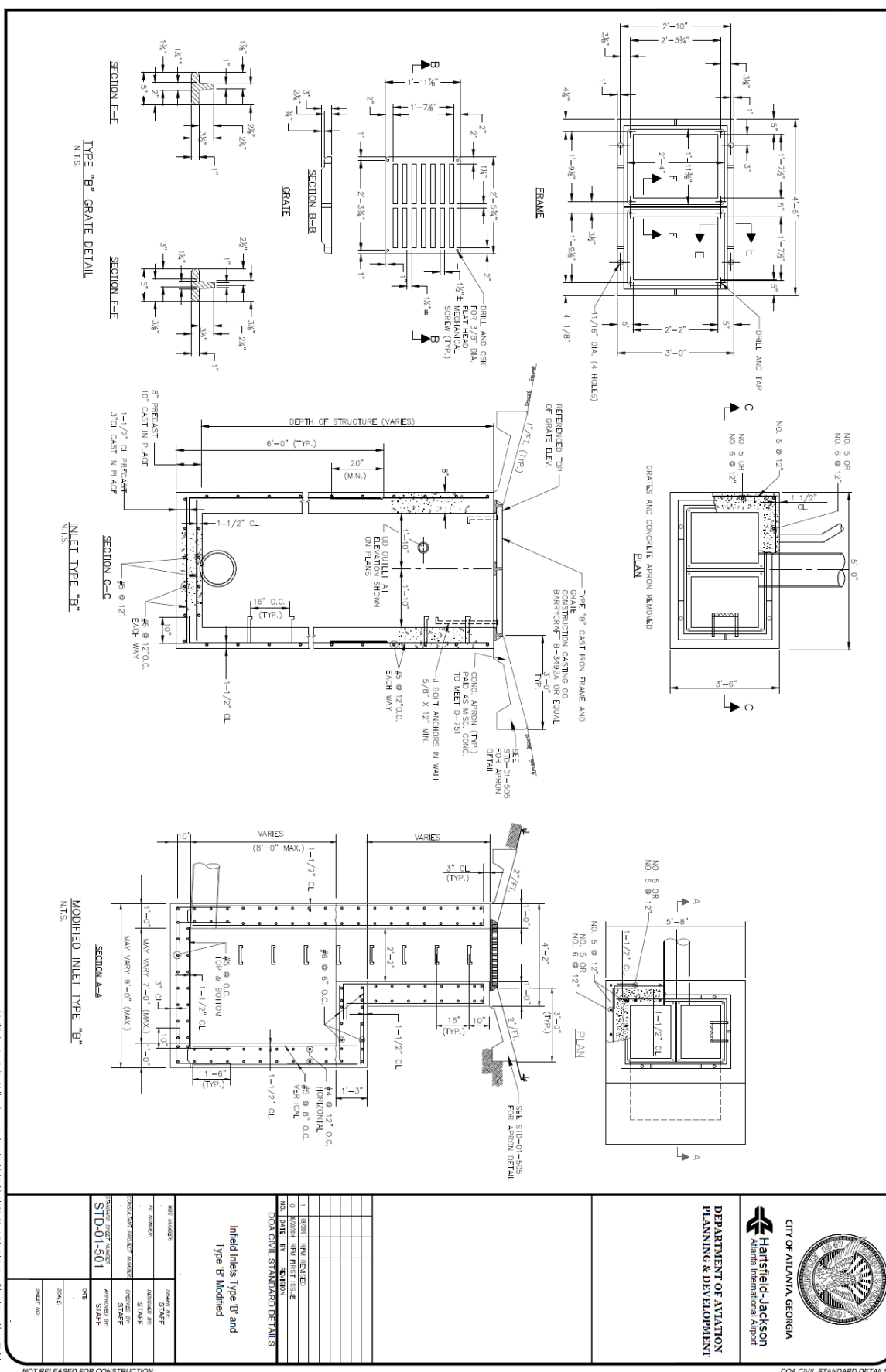






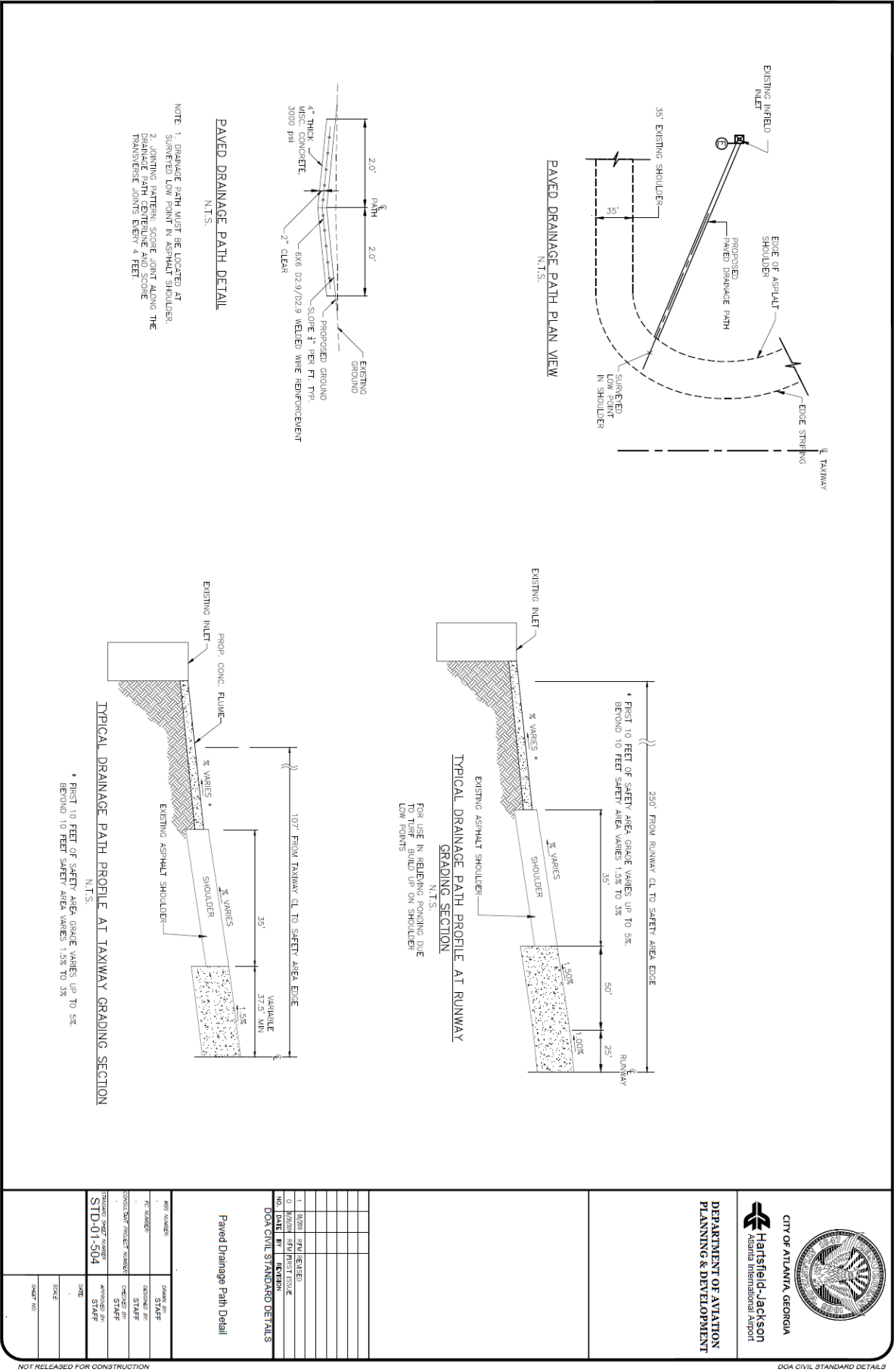










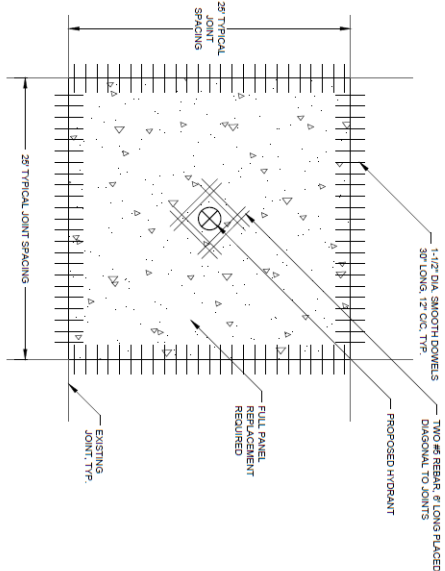


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1. GENERAL NOTES
1. NO 1" OR 1 1/2" SIZED REMAINING SLAB WILL BE PERMITTED.
2. THE LENGTH/WIDTH RATIO OF REMAINING SLAB MUST BE LESS THAN OR EQUAL TO 1.2. THE LENGTH IS DEFINED AS THE LONGER DIMENSION.
3. THE MAXIMUM ALLOWABLE TRENCH WIDTH IS 8 FEET. ANY REMOVAL IN EXCESS OF 8 FEET WILL REQUIRE RECONSTRUCTION OF THE FULL LENGTH AND WIDTH OF THE ORIGINAL PANEL.
4. IF TRENCHING CREATES REMAINING CONCRETE AREAS THAT VIOLATE THE 1.5 TO 1 LENGTH TO WIDTH RATIO, SLAB REPLACEMENT IS REQUIRED.
5. TRENCHING THROUGH ADJACENT SLABS IS SUBJECT TO THE SAME LENGTH TO WIDTH RATIO REQUIREMENTS.



CITY OF ATLANTA, GEORGIA
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DEPARTMENT OF AVIATION
PLANNING & DEVELOPMENT[illegible]

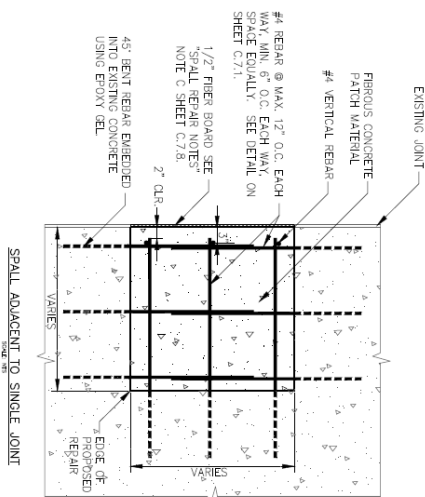
Exist. Pavement Removal and Replacement for Fuel Hydrants

DESIGNED BY: STAFF	DRAWN BY: STAFF	WKS NUMBER: .
CHECKED BY: STAFF	DESIGNED BY: STAFF	P.C. NUMBER: .
APPROVED BY: STAFF	CHECKED BY: STAFF	CONSULTANT PROJECT NUMBER: .
STANDARD SHEET NUMBER: STD-01-702		

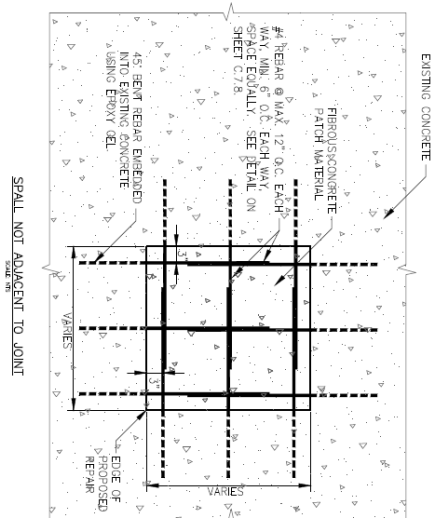
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DOA CIVIL STANDARD DETAILS



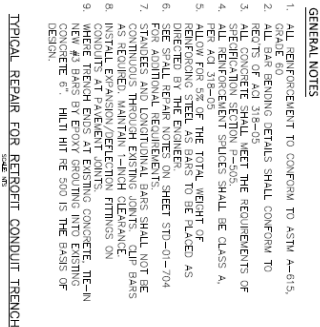


TYPICAL SPALL REPAIR REBAR PLACEMENT DETAILS



- NOTES:**
- VERTICAL #4'S REINFORCING BARS
 - PLATE BARS 3 INCHES FROM JOINTS
 - SPACING 6 INCHES
 - USE VERTICAL BARS ONLY ALONG JOINTS.
45. BENT #1 REINFORCING BARS
- ON TOP/BEHIND PLATE BARS 3 INCHES FROM EXTERIOR
 - IMMEDIATELY INSIDE VERTICAL BARS
 - SPACE EQUALLY MAX SPACING IS 12 INCHES, MIN. SPACING IS 6 INCHES.
- GENERAL:**
- ALL BARS ARE 40 BAR DIAMETERS
 - IF SPALL IS NOT IMMEDIATELY ADJACENT TO A JOINT, BUT IS WITHIN 6 INCHES OF A JOINT, EXTEND REBAR TO JOINT AND USE VERTICAL BARS.
 - SEE SHEET C.7.9 FOR ADDITIONAL DETAILS.

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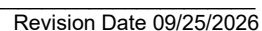


 CITY OF ATLANTA, GEORGIA  Hartsfield-Jackson Atlanta International Airport	
DEPARTMENT OF AVIATION PLANNING & DEVELOPMENT	
RETROFIT CONDUIT TRENCH REPAIR DETAILS	DOA CIVIL STANDARD DETAILS
WBS NUMBER: _____ PROJECT NUMBER: _____ STANDARD WBS# NUMBER: _____ STD-01-705	DRAWING BY: _____ DESIGNED BY: _____ CHECKED BY: _____ DATE: _____ SCALE: _____ SHEET NO.: _____













NOTES:

1. DURING LAYOUT OF PROPOSED MARKINGS, THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE ENGINEER IF ANY PROPOSED MARKINGS FALL OUTSIDE OF REQUIRED TOLERANCES. LAYOUT SHALL CEASE UNTIL REVISIONS ARE PROVIDED BY THE ENGINEER.
2. ALL MARKINGS SHALL MEET THE REQUIREMENTS OF F.A.A. ADVISORY CIRCULAR 150/5340-1L.

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DEPARTMENT OF AVIATION
PLANNING & DEVELOPMENT

DOA CIVIL STANDARD DETAILS



<u>RUNWAY COMPLEX</u>	<u>FREQUENCY</u>
NORTH (8L-26R, 8R-26L):	121.9
CENTER (9L-27R, 9R-27L):	121.75
SOUTH (10-28):	121.65

AXWAY WARNING SIGN DEAL

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SCALE:
STUDENT NO:

NOT RELEASED FOR CONSTRUCTION





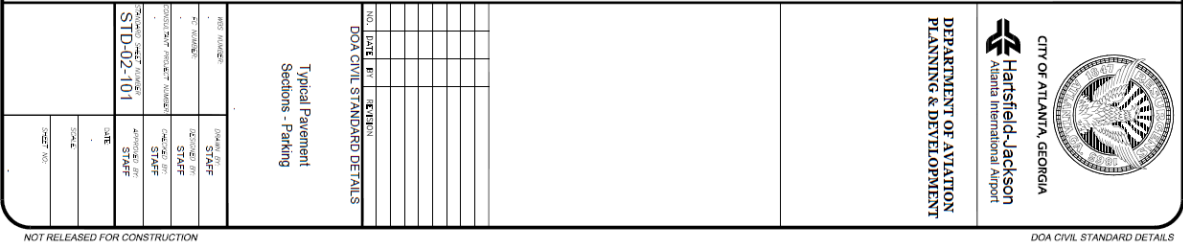
STD-02 LANDSIDE - ROADS AND PARKING

Hartsfield-Jackson

Atlanta International Airport

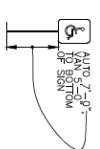
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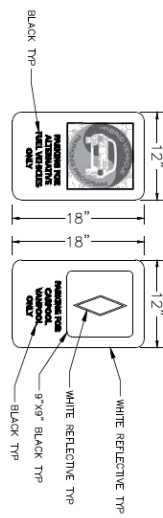
1. STAMPEDED ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS SUCH BY A SIGN COMPLYING WITH AMERICAN DISABILITY ACT (ADA) RULE 120-3-20-01(7) AND THE FOLLOWING:

O.C.G.A. 40-6-6-221

PROVIDE A BLACK WHEEL REFLECTIVE SIGN WHICH IS AT LEAST 17 INCHES IN WIDTH AND 18 INCHES IN LENGTH AND IS ERECTED AT 6 FEET FROM GROUND TO BOTTOM OF THE SIGN IN SUCH A MANNER THAT THE SIGN IS EASILY VIEWED FROM ALL DIRECTIONS PARKED IN THE SPACE AND BEARING THE INTERNATIONAL SYMBOL FOR ACCESSIBILITY. THE MARKING REQUIRED IN PRINTED IN WHITE AND SHALL OCCUPY NOT LESS THAN 75% OF THE SIGN.

SPACES COMPLYING WITH ADA RULE 120-3-20-01(7)(2) SHALL HAVE AN ADDITIONAL SIGN STATING "WALK-ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.

2. SIGN POSTS SHALL BE GALVANIZED STEEL POSTS, TYPE 7.

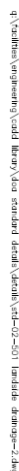


CARPOOL AND ALTERNATIVE FUEL VEHICLE SIGNS
NTS

NOTE: TEXT BELOW EACH SYMBOL IS FRUITIGER 65 BOLD.

 CITY OF ATLANTA, GEORGIA Hartsfield-Jackson Atlanta International Airport		DEPARTMENT OF AVIATION PLANNING & DEVELOPMENT	
WKS. NUMBER: _____ FY NUMBER: _____ CONSULTANT PROJECT NUMBER: _____ STANDARD SHEET NUMBER: STD-02-400		DRAWING BY: _____ CHECKED BY: _____ STAFF: _____ APPROVED BY: _____ DATE: _____ SCALE: _____ SHEET NO.: _____	
LANDSIDE SIGNAGE		NO. DATE BY REVISION 1 1/2/2011 RPH/RETH/ED 2 1/2/2011 RPH/RETH/ED 3 1/2/2011 RPH/RETH/ED 4 1/2/2011 RPH/RETH/ED 5 1/2/2011 RPH/RETH/ED 6 1/2/2011 RPH/RETH/ED 7 1/2/2011 RPH/RETH/ED 8 1/2/2011 RPH/RETH/ED 9 1/2/2011 RPH/RETH/ED 10 1/2/2011 RPH/RETH/ED 11 1/2/2011 RPH/RETH/ED 12 1/2/2011 RPH/RETH/ED 13 1/2/2011 RPH/RETH/ED 14 1/2/2011 RPH/RETH/ED 15 1/2/2011 RPH/RETH/ED 16 1/2/2011 RPH/RETH/ED 17 1/2/2011 RPH/RETH/ED 18 1/2/2011 RPH/RETH/ED 19 1/2/2011 RPH/RETH/ED 20 1/2/2011 RPH/RETH/ED 21 1/2/2011 RPH/RETH/ED 22 1/2/2011 RPH/RETH/ED 23 1/2/2011 RPH/RETH/ED 24 1/2/2011 RPH/RETH/ED 25 1/2/2011 RPH/RETH/ED 26 1/2/2011 RPH/RETH/ED 27 1/2/2011 RPH/RETH/ED 28 1/2/2011 RPH/RETH/ED 29 1/2/2011 RPH/RETH/ED 30 1/2/2011 RPH/RETH/ED 31 1/2/2011 RPH/RETH/ED 32 1/2/2011 RPH/RETH/ED 33 1/2/2011 RPH/RETH/ED 34 1/2/2011 RPH/RETH/ED 35 1/2/2011 RPH/RETH/ED 36 1/2/2011 RPH/RETH/ED 37 1/2/2011 RPH/RETH/ED 38 1/2/2011 RPH/RETH/ED 39 1/2/2011 RPH/RETH/ED 40 1/2/2011 RPH/RETH/ED 41 1/2/2011 RPH/RETH/ED 42 1/2/2011 RPH/RETH/ED 43 1/2/2011 RPH/RETH/ED 44 1/2/2011 RPH/RETH/ED 45 1/2/2011 RPH/RETH/ED 46 1/2/2011 RPH/RETH/ED 47 1/2/2011 RPH/RETH/ED 48 1/2/2011 RPH/RETH/ED 49 1/2/2011 RPH/RETH/ED 50 1/2/2011 RPH/RETH/ED 51 1/2/2011 RPH/RETH/ED 52 1/2/2011 RPH/RETH/ED 53 1/2/2011 RPH/RETH/ED 54 1/2/2011 RPH/RETH/ED 55 1/2/2011 RPH/RETH/ED 56 1/2/2011 RPH/RETH/ED 57 1/2/2011 RPH/RETH/ED 58 1/2/2011 RPH/RETH/ED 59 1/2/2011 RPH/RETH/ED 60 1/2/2011 RPH/RETH/ED 61 1/2/2011 RPH/RETH/ED 62 1/2/2011 RPH/RETH/ED 63 1/2/2011 RPH/RETH/ED 64 1/2/2011 RPH/RETH/ED 65 1/2/2011 RPH/RETH/ED 66 1/2/2011 RPH/RETH/ED 67 1/2/2011 RPH/RETH/ED 68 1/2/2011 RPH/RETH/ED 69 1/2/2011 RPH/RETH/ED 70 1/2/2011 RPH/RETH/ED 71 1/2/2011 RPH/RETH/ED 72 1/2/2011 RPH/RETH/ED 73 1/2/2011 RPH/RETH/ED 74 1/2/2011 RPH/RETH/ED 75 1/2/2011 RPH/RETH/ED 76 1/2/2011 RPH/RETH/ED 77 1/2/2011 RPH/RETH/ED 78 1/2/2011 RPH/RETH/ED 79 1/2/2011 RPH/RETH/ED 80 1/2/2011 RPH/RETH/ED 81 1/2/2011 RPH/RETH/ED 82 1/2/2011 RPH/RETH/ED 83 1/2/2011 RPH/RETH/ED 84 1/2/2011 RPH/RETH/ED 85 1/2/2011 RPH/RETH/ED 86 1/2/2011 RPH/RETH/ED 87 1/2/2011 RPH/RETH/ED 88 1/2/2011 RPH/RETH/ED 89 1/2/2011 RPH/RETH/ED 90 1/2/2011 RPH/RETH/ED 91 1/2/2011 RPH/RETH/ED 92 1/2/2011 RPH/RETH/ED 93 1/2/2011 RPH/RETH/ED 94 1/2/2011 RPH/RETH/ED 95 1/2/2011 RPH/RETH/ED 96 1/2/2011 RPH/RETH/ED 97 1/2/2011 RPH/RETH/ED 98 1/2/2011 RPH/RETH/ED 99 1/2/2011 RPH/RETH/ED 100 1/2/2011 RPH/RETH/ED 101 1/2/2011 RPH/RETH/ED 102 1/2/2011 RPH/RETH/ED 103 1/2/2011 RPH/RETH/ED 104 1/2/2011 RPH/RETH/ED 105 1/2/2011 RPH/RETH/ED 106 1/2/2011 RPH/RETH/ED 107 1/2/2011 RPH/RETH/ED 108 1/2/2011 RPH/RETH/ED 109 1/2/2011 RPH/RETH/ED 110 1/2/2011 RPH/RETH/ED 111 1/2/2011 RPH/RETH/ED 112 1/2/2011 RPH/RETH/ED 113 1/2/2011 RPH/RETH/ED 114 1/2/2011 RPH/RETH/ED 115 1/2/2011 RPH/RETH/ED 116 1/2/2011 RPH/RETH/ED 117 1/2/2011 RPH/RETH/ED 118 1/2/2011 RPH/RETH/ED 119 1/2/2011 RPH/RETH/ED 120 1/2/2011 RPH/RETH/ED 121 1/2/2011 RPH/RETH/ED 122 1/2/2011 RPH/RETH/ED 123 1/2/2011 RPH/RETH/ED 124 1/2/2011 RPH/RETH/ED 125 1/2/2011 RPH/RETH/ED 126 1/2/2011 RPH/RETH/ED 127 1/2/2011 RPH/RETH/ED 128 1/2/2011 RPH/RETH/ED 129 1/2/2011 RPH/RETH/ED 130 1/2/2011 RPH/RETH/ED 131 1/2/2011 RPH/RETH/ED 132 1/2/2011 RPH/RETH/ED 133 1/2/2011 RPH/RETH/ED 134 1/2/2011 RPH/RETH/ED 135 1/2/2011 RPH/RETH/ED 136 1/2/2011 RPH/RETH/ED 137 1/2/2011 RPH/RETH/ED 138 1/2/2011 RPH/RETH/ED 139 1/2/2011 RPH/RETH/ED 140 1/2/2011 RPH/RETH/ED 141 1/2/2011 RPH/RETH/ED 142 1/2/2011 RPH/RETH/ED 143 1/2/2011 RPH/RETH/ED 144 1/2/2011 RPH/RETH/ED 145 1/2/2011 RPH/RETH/ED 146 1/2/2011 RPH/RETH/ED 147 1/2/2011 RPH/RETH/ED 148 1/2/2011 RPH/RETH/ED 149 1/2/2011 RPH/RETH/ED 150 1/2/2011 RPH/RETH/ED 151 1/2/2011 RPH/RETH/ED 152 1/2/2011 RPH/RETH/ED 153 1/2/2011 RPH/RETH/ED 154 1/2/2011 RPH/RETH/ED 155 1/2/2011 RPH/RETH/ED 156 1/2/2011 RPH/RETH/ED 157 1/2/2011 RPH/RETH/ED 158 1/2/2011 RPH/RE	







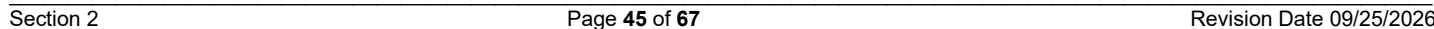
STD-03 GENERAL DETAILS

Hartsfield-Jackson

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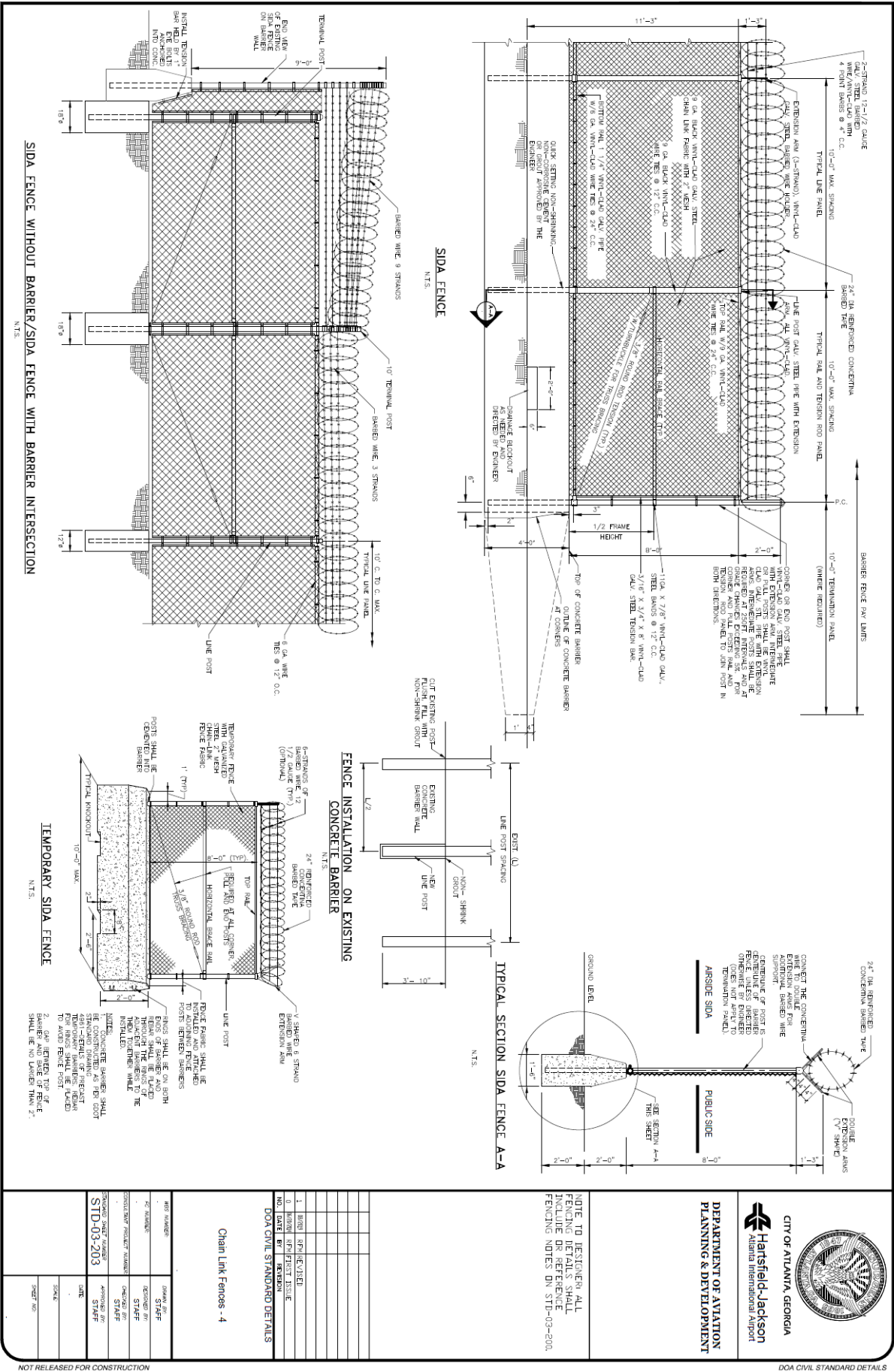
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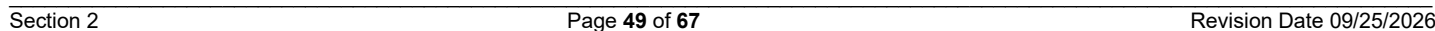


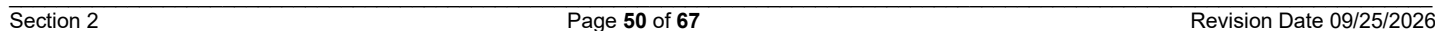


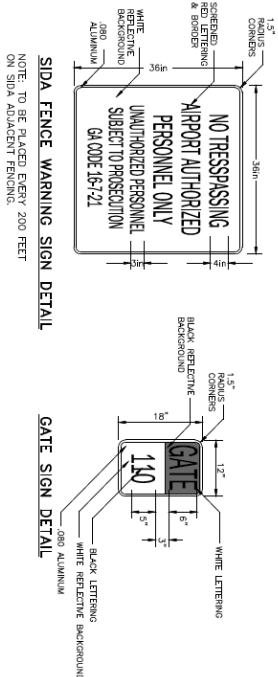








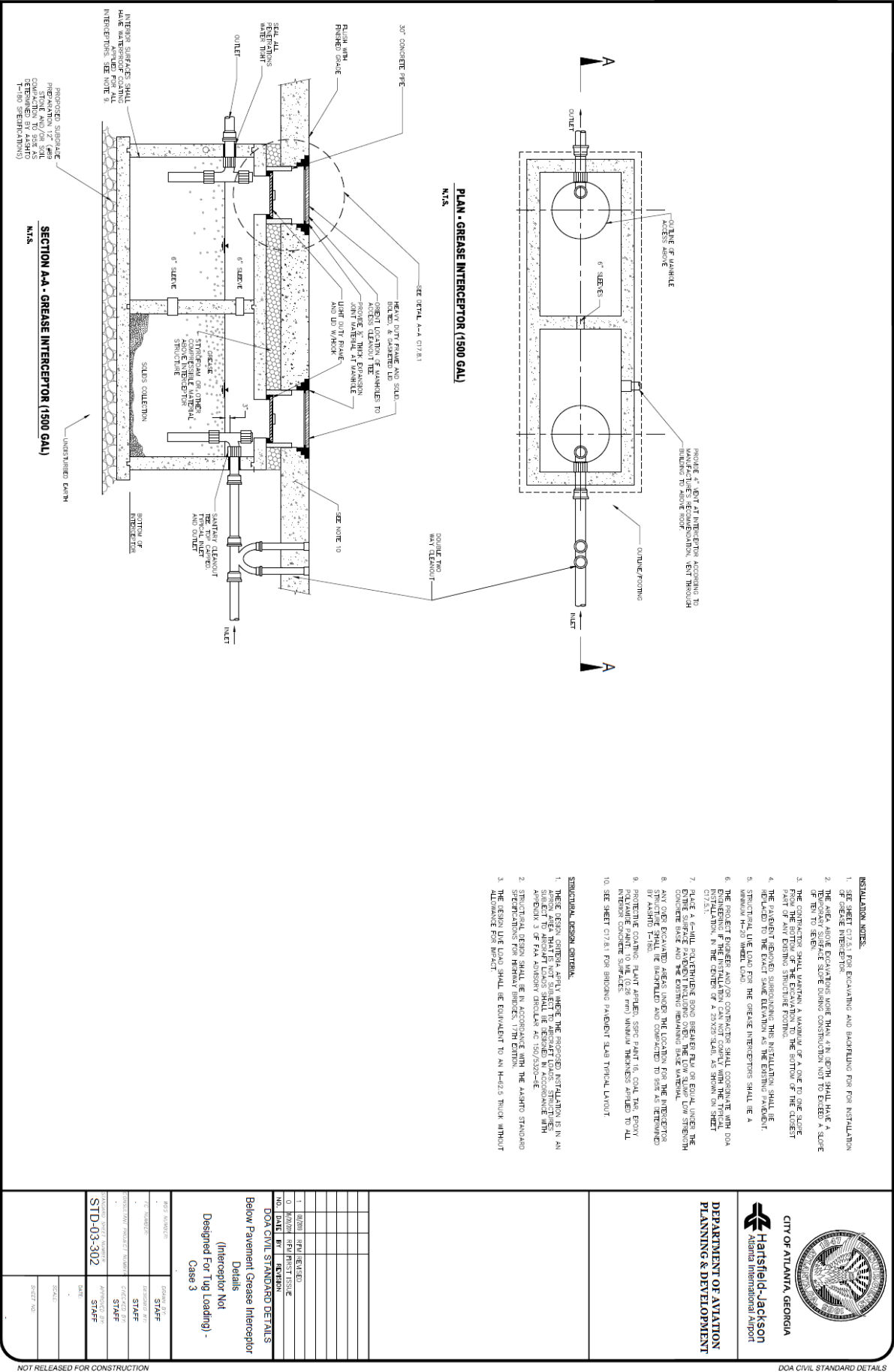




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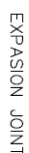
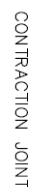
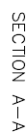
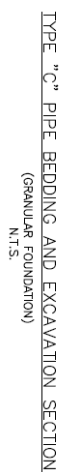
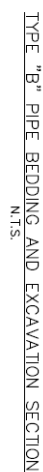






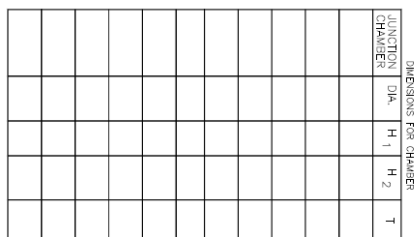






- NOTES:
1. SLOPES MAY VARY. SEE CROSS SECTIONS FOR VALUES.
2. JOINTING PATTERN: SCORE JOINT ALONG THE DRAINAGE PATH CENTRLINE AND SCORE TRANSVERSE JOINTS EVERY 4 FEET.
3. THE CONCRETE FOR PAVED DITCHES SHALL BE PLACED WITH CONTRACTION JOINTS AT INTERVALS NOT TO EXCEED 25' EXPANSION JOINTS SHALL BE LOCATED AT CONTRACTION JOINTS AT APPROXIMATELY 100 FOOT SPACING. EXPANSION JOINTS ALSO OCCUR AT INTERSECTIONS WITH MEDIAN OR RILEY ARMS.

[illegible]

[illegible]





- A. PRECAST CONCRETE ALIUTMENT RINGS AS REQUIRED, WITH A MINIMUM OF TWO RINGS PER MANHOLE. RINGS TO BE FINISHED WITH 1" DIAMETER HOLES AT 180° FOR GRADE DOWELS.
- B. STANDARD STEPS SPACED AT 16" O.C. SHALL BE CAST IRON, NEMA#4 PATTERN NO. A-1900-0 OR EQUIV.
- C. JOINTS BETWEEN ALL PRECAST MANHOLE COMPONENTS SHALL BE FILLED, RESTRAINT DRAINING.
- D. MANHOLE FRAME AND COVER TO BE BARRY PATTERN B-1600-0 OR APPROVED EQUIV. WITH NO. 4 STEEL DOWELS BEDDED IN STEEL MONOLAB.
- E. PRECAST MANHOLE RISERS AND BASE SHALL CONFORM TO THE PROVISIONS OF ASTM C-478.

[illegible]

4:\ Facilities\engineering\cadd library\doe standard details\std-03-403 riser tee manhole for existing or proposed pipe dwg.



CITY OF ATLANTA, GEORGIA
Hartsfield-Jackson
Atlanta International Airport

DEPARTMENT OF AVIATION
PLANNING & DEVELOPMENT



TYPICAL SECTION
PIPE INSTALLATION AT FOOTINGS
N.T.S.

NOT RELEASED FOR CONSTRUCTION



NOTES:
1. SLOPES MAY VARY. SEE CROSS SECTIONS FOR VALUES.

2. JOINTING PATTERN: SCORE JOINT ALONG THE DRAINAGE PITCH CENTRELINE AND SCORE TRANSVERSE JOINTS EVERY 4 FEET.
3. THE CONCRETE FOR PAVED DITCHES SHALL BE PLACED WITH CONTRACTING JOINTS AT INTERVALS NOT TO EXCEED 25'.

EXPANSION JOINTS SHALL BE PLACED AT APPROXIMATELY 100 FOOT SPACING. EXPANSION JOINTS ALSO COORDINATE WITH HEADWALL OR TIE-UP POINTS.

NOT RELEASED FOR CONSTRUCTION



[illegible]





