ATTACHMENT 6

Revised Grading Plans, Outfall 008 (11x17 copy)

The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

Hand Delivered

August 17, 2009 In reply refer to SHEA-108977

Ventura County Public Works Agency 800 S. Victoria Avenue Ventura, CA 93009-1600

Attention: Mr. Jim Myers

Subject: Revised Grading Permit Application Materials, GP 10220, ISRA Remedial

Grading, Santa Susana Field Laboratory, Ventura County, California

Dear Mr. Myers:

The Boeing Company (Boeing) hereby provides the attached Revised Grading Plans, geotechnical reports, and supporting information for the above-referenced grading permit (GP 10220) for Interim Source Removal Action (ISRA) at the Santa Susana Field Laboratory, Ventura County, California. If you have any questions or require anything further, please contact me at 818-466-8741.

Sincerely,

Lori Blair

Project Manager

Santa Susana Field Laboratory Environment, Health and Safety

Attachments:

Revised Grading Plans

Stamped Grading Plan Checklist for Plancheck

 Revised Soil and Geologic Report, Outfall 008 Watershed - ISRA Remedial Grading

Letter from MWH to Boeing, Acceptance of Revised Soil and Geologic Report

 Response to Ventura County Comments to GP 10220 / Boeing [Santa Susana Field Lab, APN 665-0-005-110], 1st Plan Check

 Revised Storm Water Pollution Prevention Plan (SWPPP) for ISRA, dated August 14, 2009

cc: Cassandra Owens, RWQCB - Revised Grading Plans only pro-Peter Raftery, RWQCB - Revised Grading Plans only - AS-Buck King, RWQCB - Revised Grading Plans only - Jan



GENERAL NOTES:

- GRADING SHALL BE IN ACCORDANCE WITH THE VENTURA COUNTY BUILDING CODE APPENDIX J AND THE VENTURA COUNTY STANDARD LAND DEVELOPMENT SPECIFICATIONS AND THE LAND DEVELOPMENT MANUAL.
- 2. A PRECONSTRUCTION CONFERENCE OF ALL INTERESTED PARTIES SHALL BE HELD PRIOR TO ANY CONSTRUCTION
- ALL RECOMMENDATIONS MADE BY THE SOILS ENGINEER (AND ENGINEERING GEOLOGIST, WHERE EMPLOYED) CONTAINED IN THE REPORTS REFERENCED HEREON AS APPROVED OR CONDITIONED BY THE COUNTY SHALL BE A PART OF THIS GRADING PLAN.
- 4. ALL GRADED SURFACES SUBJECT TO EROSION SHALL BE PROTECTED IN ACCORDANCE WITH THE S.W.P.C.P. OR S.W.P.P.P. PROTECTION SHALL BE PROVIDED AND FULLY FUNCTIONAL AT ALL TIMES.
- 5. ALL DELETERIOUS MATERIAL. I.E. LUMBER. LOGS, BRUSH, OR ANY OTHER ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL.
- UNSUITABLE MATERIAL SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER AND ENGINEERING GEOLOGIST FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
- ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER (AND RECIPIED TO THE SOCIETY CONTROLL FOR STREET BY THE SOCIETY OF THE
- 8. ALL SOIL OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY MATERIAL SUCH AS CONCRETE CONSTRUCTION INERT DEBRIS, OR IMPORTED MATERIALS SHALL BE APPROVED BY THE SOILS ENGINEER AND COUNTY PRIOR TO USE IN COMPACTED FILL. WHERE EXCAVASED MATERIAL IS BLOCKY IT WILL BE BROKEN INTO SUITABLE PARTICLE SIZES, NONE LARGER THAN TWELVE INCHES IN LARGEST DIMENSION, BEFORE BEING USED AS FILL.
- THE SOILS ENGINEER SHALL DIRECT THE REMOVAL OF ANY EXISTING UNDERGROUND STRUCTURES SUCH AS SEPTIC TANKS, IRRIGATION LINES, ETC.
- 10. ANY WATER WELL LOCATED WITHIN THE SITE SHALL BE REPORTED TO THE WATER RESOURCES DIVISION, WATHERSHED PROTECTION DISTRICT PRIOR TO ITS MODIFICATION, ABANDONMENT, OR DESTRUCTION.
- 11. ALL EXCAVATED BACK SLOPES AND KEYS FOR BUTTRESS FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER TO INSURE THAT ALL POTENTIAL PLANES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED BUTTRESS. FIELD CERTIFICATION TO BE SUBMITTED BY THE CONSULTANTS.
- 12. THE SOILS ENGINEER AND ENGINEERING GEOLOGIST (WHERE EMPLOYED) SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE WORK TO INSURE SLOPE STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED AT THE TOP OF CUTS.
- 13. UNLESS OTHERWISE SPECIFIED, CORRUGATED STEEL PIPE SHALL BE BITUMINOUS COATED IN ACCORDANCE WITH STANDARD LAND DEVELOPMENT SPECIFICATIONS (SLDS).
- 14. INTERIM SOILS AND GEOLOGIC REPORTS SHALL BE SUBMITTED TO THE COUNTY AS REQUIRED BY THE BUILDING
- 15. FINAL ROUGH GRADE SOILS ENGINEERING AND (IF APPLICABLE) ENGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED AND CONCLUDING THAT THE WORK HAS BEEN COMPLETED ACCORDING TO THE APPROVED REPORTS SHALL BE SUBMIT
- 16. FINAL SOILS ENGINEERING AND (IF APPLICABLE) ENGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED SINCE ROUGH GRADING AND CONCLUDING THAT THE WORK HAS BEEN COMPLETED ACCORDING TO THE APPROVED REPORTS SHALL BE SUBMITTED TO THE COUNTY PRIOR TO FINAL INSPECTION BY THE BUILDING
- 17. THE TOTAL ESTIMATED DISTURBED AREA OF GRADING AND CONSTRUCTION IS $\underline{0.86}$ ACRES. PROJECTS THAT ARE 1.0 ACRE OR GREATER IN DISTURBED AREA WILL REQUIRE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND NOTICE OF INTENT (NOI) AS APPROVED BY THE STATE REGIONAL WATER QUALITY CONTROL BOARD. PROJECTS UNDER 1.0 ACRE WILL REQUIRE A STORM WATER POLLUTION CONTROL PLAN (SWPCP) AND APPROPRIATE BEST MANAGEMENT PRACTICE (BMPs) AS APPROVED BY THE COUNTY

EARTHWORK QUANTITIES

CUT:	2720	CU. YDS.	FILL:	2720	CU. YDS
EVDODT.	2720	CIT ADC	IMPORT	2720	CII VDC

DISPOSAL SITE CLASS I OR CLASS III LANDFILL SOURCE LOCAL BORROW SOURCE

SURFACE IN THE AREA OF GRADING VARIABLE 1 TO 26 %

LAND DEVELOPMENT & INSPECTION SERVICES MUST BE NOTIFIED TEN (10) WORKING DAYS PRIOR TO ANY EXPORT/IMPORT TO/FROM THE PROJECT SITE.

PERMITS

COUNTY ENCROACHMENT PERMIT NO	DATE
STATE ENCROACHMENT PERMIT NO.	DATE
VENTURA COUNTY WATERSHED PROTECTION DISTRICT WATERCOURSE PERMIT NO.	N DATE
FLOODPLAIN DEVELOPMENT PERMIT _	DATE

CONSTRUCTION NOTES:

LOCATION & VICINITY MAD

- 1) THIS PROJECT SHALL NOT GENERATE MORE THAN 10 ROUND TRIP TRUCKS A DAY CARRYING EARTH MATERIALS OR 50 ROUND TRUCK TRIPS PER CALENDAR WEEK
- 2) NO GRADING ACTIVITY WILL BE ALLOWED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY PUBLIC WORKS
- 3) HEAVY EQUIPMENT NOISE & TRUCK DELIVERIES SHALL NOT BEGIN UNTIL AFTER 7:00 A.M. NO WORK BEYOND 4:30 PM UNLESS APPROVED BY PWA.
- 4) NO GRADING ACTIVITY SHALL OCCUR IN ANY WETLAND, BLUE-LINE STREAM, RED-LINE CHANNEL, OR FLOODPLAIN WITHOUT THE PROPER PERMITS & PERMISSION FROM THE PWA & RESOURCE MANAGEMENT AGENCY (RMA).
- A COUNTY TRANSPORTATION ENCROACHMENT PERMIT IS NEEDED IF ANY CONSTRUCTION WORK OR STOCKPILING OF MATERIALS IS DONE WITHIN THE COUNTY RIGHT-OF-WAY.

ADDDOVAL DV CONCULTANTO

LOCATION & VICINITI MAP	AFFRO	VAL DI	CONSC	LIANIS)
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D Paige Section Co.	COMPANY				
C					
B					
A					
DESCRIPTION OF	REVISION	RCE	DATE	APP.	DATE
REV. APRIL-2009		•	•		

ENGINEERED GRADING INSPECTION CERTIFICATE

JOB ADDRESS OR TRACT NO: BOEING NORTH AMERICA

5800 WOOLSEY CANYON ROAD

CANOGA PARK, CA 91304

ROUGH GRADING CERTIFICATION

I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK AND TESTING DURING GRADING. I FURTHER CERTIFY THAT WHERE THE REPORTS OF AN CONTROL SIMILAR STABILIZATION MEASURES, SUCH EARTHWORK CONSTRUCTION HAS BEEN COMPLETED IN

LOT NOS:		
SEE REPORTS DATED:		
FOR TEST DATA, RECOMM		NG VALUES & OTHER SPECIAL RECOMMENDATIONS.
SOILS ENGINEER		REG. NO
	(SIGNATURE)	DATE
(B) BY ENGINEERING GEOR	LOGIST	
	R WHICH I AM RESPONSIBLE A	RATES ALL OF THE RECOMMENDATIONS CONTAINED IN THE ND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON
LOT NOS :		

ENGINEERING GEOLOGIST CERT. NO. (SIGNATURE) DATE

I CERTIFY TO THE SATISFACTORY COMPLETION OF ROUGH GRADING INCLUDING GRADING TO APPROXIMATE FINAL ELEVATIONS; PROPERTY LINES LOCATED AND STAKED, CUT AND FILL SLOPES CORRECTLY GRADED AND LOCATED IN ACCORDANCE WITH THE APPROVED DESIGN; SWALES AND TERRACES GRADED READY FOR PAVING; BERMS INSTALLED, AND REQUIRED DRAINAGE SLOPES PROVIDED ON THE BUILDING PADS. I FURTHER CERTIFY THAT WHERE REPORT OR REPORTS OF AN ENGINEERING GEOLOGIST AND/OR SOILS ENGINEER HAVE BEEN PREPARED RELATED TO THIS SITE, THE RECOMMENDATIONS CONTAINED IN SUCH REPORTS HAVE BEEN INCORPORATED IN THE DESIGN

LOT NOS:			
CIVIL ENGINEER		REG. NO	
	(SIGNATURE)	DATE	

FINAL GRADING CERTIFICATION

BY CIVIL ENGINEER

I CERTIFY TO THE SATISFACTORY COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED PLANS. ALL DRAINAGE DEVICES REQUIRED BY THE GRADING PERMIT, GRADING PLANS AND GRADING ORDINANCE HAVE BEEN INSTALLED. EROSION TREATMENT OF SLOPES AND IRRIGATION SYSTEMS (WHERE REQUIRED) HAVE BEEN INSTALLED. ADEQUATE PROVISIONS HAVE BEEN MADE FOR DRAINAGE OF SURFACE WATERS FROM EACH BUILDING SITE AS OF LOT NOS.

CIVIL ENGINEER		REG. NO.	
	(SIGNATURE)		
	, ,	DATE	

GRADING CONTRACTOR CERTIFICATION

BY GRADING CONTRACTOR

1) SOILS ENGINEER:

I CERTIFY THAT THE GRADING WAS DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE GRADING ORDINANCE, AND THE RECOMMENDATIONS OF THE CIVIL ENGINEER, SOILS ENGINEER AND ENGINEERING GEOLOGIST. IT IS UNDERSTOOD THAT THIS CERTIFICATION INCLUDES ONLY THOSE ASPECTS OF THE WORK THAT CAN BE DETERMINED BY ME, AS A COMPETENT GRADING CONTRACTOR, WITHOUT SPECIAL EQUIPMENT OR PROFESSIONAL

GRADING CONTRACTOR		LICENSE NO.
	(SIGNATURE)	
	,	DATE

INSTRUCTIONS: THE OWNER MAY SIGN IF THE GRADING WAS NOT DONE BY A LICENSED GRADING CONTRACTOR.

PROJECT CONSULTANTS: (NAME, ADDRESS, & PHONE)

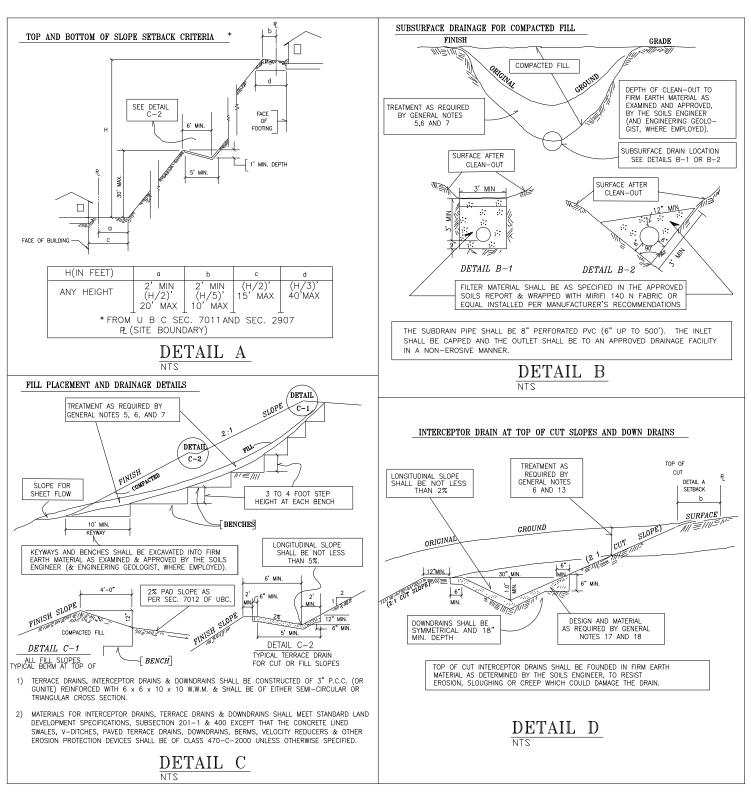
2)	CIVIL ENGINEER:	MWH
•		2121 N. CALIFORNIA BLVD., SUITE 600
		WALNUT CREEK, CA 94596
3)	GRADING CONTRACTOR:	M.P. ENVIRONMENTAL SERVICES 3400 MANOR STREET
		BAKERSFIELD, CA 93308
۱)	PROPERTY OWNER:	BOEING NORTH AMERICA
.,		5800 WOOLSEY CANYON ROAD
		CANOGA PARK, CA 91304

BENCH MARK DATA HORIZONTAL DATUM: NAD27, CCS ZONE 5

MWH

VERTICAL DATUM: NAVD88
CPGS STATION "ROCK" LOCATED WITHIN THE PROJECT BOUNDARY WAS HELD FOR HORIZONTAL COORDINATES (6357222.5450FT, 1908835.015UFT) MAPPING WAS PRODUCED UNDER THE COORDINATE SYSTEM THEN TRANSFORMED TO NAD27 USING CORPSCON

COUNTY OF VENTURA PUBLIC WORKS AGENCY



SIGNED AND STAMPED VERSION OF GRADING PLANS ON FILE WITH VENTURA COUNTY

COUNTY OF VENTURA

WDID: 4 19C355816 APN: <u>685-0-051-120</u> GP 10,220 INTERIM SOURCE REMOVAL ACTIONS OUTFALL 008 WATERSHED EXCAVATION PLANS

PUBLIC WORKS AGENCY DEVELOPMENT SERVICES

APPROVED: COUNTY OF VENTURA

MANAGER, DEVELOPMENT SERVICES

DRAWING PLOT SIZE = 36" X 22"

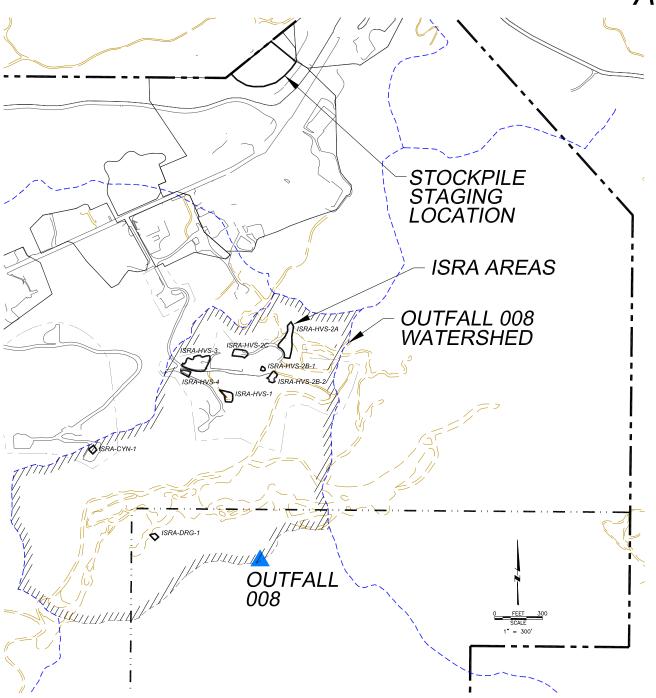
COVER SHEET

of ____8

INTERIM SOURCE REMOVAL ACTIONS -OUTFALL 008 WATERSHED EXCAVATION PLANS

SANTA SUSANA FIELD LABORATORY VENTURA COUNTY, CALIFORNIA AUGUST 2009

SIGNED AND STAMPED VERSION OF GRADING PLANS ON FILE WITH VENTURA COUNTY



SHEET INDEX

- 1 COVER SHEET
- 2 TITLE, SITE LOCATION, LEGEND AND GENERAL NOTES
- 3 EXCAVATION PLANS: ISRA-HVS-1, ISRA-HVS-2B-1, ISRA-HVS-2B-2, ISRA-HVS-2C, ISRA-HVS-3 & ISRA-HVS-4
- 4 EXCAVATION PLAN: ISRA-HVS-2A
- 5 EXCAVATION PLAN: ISRA-CYN-1
- EXCAVATION PLAN: ISRA-DRG-1
- 7 CIVIL SECTIONS
- 8 TEMPORARY STOCKPILE LOCATION

EARTHWORK QUANTITIES

AREA		CUT/EXPORT- IN SITU (CY)	FILL/IMPORT- IN SITU (CY)	AVERAGE NATURAL SLOPE
CYN-1	0.03	110	110	1%
DRG-1	0.03	90	90	26%
HVS-1	0.08	260	260	20%
HVS-2A	0.25	810	810	21%
HVS-2B-1	0.01	40	40	4%
HVS-2B-2	0.06	180	180	15%
HVS-2C	0.09	280	280	21%
HVS-3	0.27	890	890	23%
HVS-4	0.04	60	60	10%

LEGEND (APPLIES TO SHEETS 3 THROUGH 6)

ADMINISTRATIVE AREA BOUNDARY

RFI SITE BOUNDARY

PREVIOUS REMEDIATION ACTIVITY
AREA CONDUCTED UNDER DIRECTION
OF DTSC (2003-2004)

SURFACE WATER DRAINAGE

SURFACE WATER DIVIDE
ELEVATION CONTOUR

ISRA AREA EXCAVATION PLAN

SURFACE WATER FLOW DIRECTION
OAK TREE WITHIN ~100 FEET OF

AN ISRA EXCAVATION AREA

APN: 685-0-051-120

GP 10,220

GENERAL NOTES:

- CONTRACTOR SHALL EXCAVATE AREAS INDICATED TO MAXIMUM DEPTHS SPECIFIED ON ATTACHED DRAWINGS OR BEDROCK, WHICHEVER IS SHALLOWER.
- 2. CONTRACTOR SHALL MANAGE, TRANSPORT, AND DISPOSE OF EXCAVATED SOIL IN ACCORDANCE WITH THE ISRA SOIL MANAGEMENT PLAN.
- 3. EXCAVATION LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE ACTUAL LIMITS MAY VARY AS DIRECTED BY THE PROJECT ENGINEER, BASED ON THE RESULTS OF CONFIRMATION SAMPLING.
- 4. DISTURBED AREAS SHALL BE RESTORED USING LOCAL SOILS, AS NECESSARY AND AS DIRECTED BY THE PROJECT ENGINEER, TO ACHIEVE GRADES THAT WILL PREVENT PONDING OF STORMWATER AND REDUCE THE POTENTIAL FOR EROSION.
- 5. VEGETATION SHALL BE ESTABLISHED IN DISTURBED SOIL AREAS, AS NECESSARY AND AS DIRECTED BY THE PROJECT ENGINEER.
- 6. DISTURBED AREAS WILL INCORPORATE BMPs TO PREVENT SOIL PARTICLES FROM BEING TRANSPORTED FROM THE SITE, AS SPECIFIED IN THE ISRA STORM WATER POLLUTION PREVENTION PLAN.

WDID: 4 19C355816

- 7. ALL WORK WILL BE PERFORMED BETWEEN THE HOURS OF 7 a.m. AND 5 p.m. ON MONDAYS THROUGH FRIDAYS.
- 8. TOPOGRAPHIC CONTOURS WERE PREPARED BY SAGE CONSULTANTS, JULY 29, 2009.

D C		₩ MWH	APPROVED: COUNTY OF VENTURA	COUNTY OF VENTURA	SPEC. NO.	INTERIM SOURCE REMOVAL ACTIONS OUTFALL 008 WATERSHED EXCAVATION PLANS	SHEET 2 OF 8
A DESCRIPTION OF REVISION	RCE DATE APP. DATE	DRAWING PLOT SIZE	MANAGER, DEVELOPMENT SERVICES = 36" X 22" DATE:	DEVELOPMENT SERVICES	PROJ. NO.	TITLE, SITE LOCATION, LEGEND AND GENERAL NOTES	DRAWING NO.

