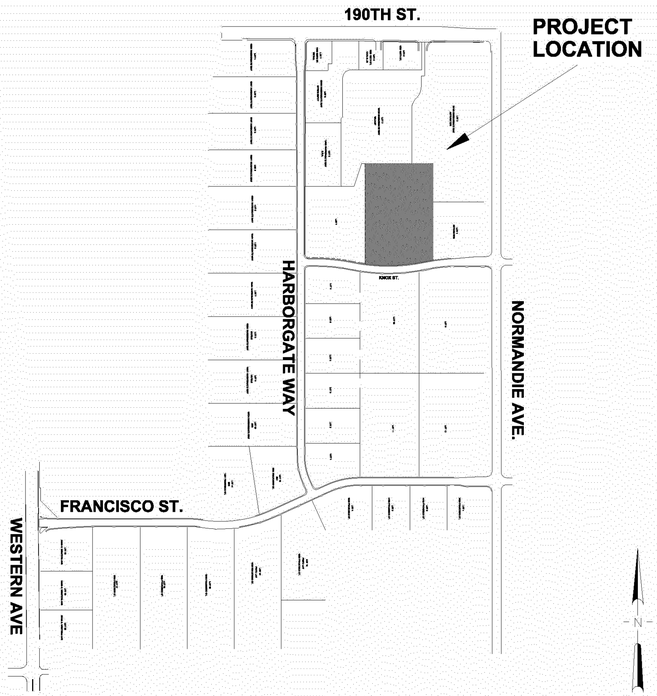


PROJECT DIRECTORY

ENGINEER
HALEY & ALDRICH INC.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108

RICHARD M. FARSON, PE
TEL: (619) 280-9210
FAX: (619) 280-9415

PATRICK A. KEDDINGTON, PE
TEL: (619) 280-9210
FAX: (619) 280-9415

ELECTRICAL ENGINEER
BELA M. WOUTERS, P.E.
11778 PAPAGALLO CT.
SAN DIEGO, CA 92124
TEL: (858) 874-3516

BOEING REALTY CORPORATION
BOEING REALTY CORPORATION
15460 LAGUNA CANYON ROAD, SUITE 200
IRVINE, CA 92618

MAIL: 6633 CANOGA AVENUE
MC T-46
CANOGA PARK, CA 91303

ATTN.: JOHN SCOTT
TEL: (818) 586-4533
FAX: (818) 586-5889

OWNER'S ARCHITECT
HILL PINKERT ARCHITECTS, INC.
4931 BIRCH STREET
NEWPORT BEACH, CA 92660

ATTN.: INSIC CHANG
TEL: (949) 863-1770
FAX: (949) 863-0851

OWNER
BOEING REALTY CORPORATION

DEVELOPER
OVERTON MOORE PROPERTY
1125 WEST. 190th STREET, SUITE 200
GARDENA, CA 90248

ATTN.: MICHAEL SAJJADI
TEL: (310) 323-9100
FAX: (310) 768-1358

CIVIL ENGINEER
TAIT ENVIRONMENTAL MANAGEMENT
701 NORTH PARKCENTER DRIVE
SANTA ANA, CA 92705

ATTN.: GREG STEWART
TEL: (714) 560-8200
FAX: (714) 500-8235

FIRE PROTECTION
ALLAN AUTOMATIC SPRINKLER
CORPORATION OF SOUTHERN CALIFORNIA
3233 ENTERPRISE ST.
BREA, CA 92621

ATTN.: JACK THACKER, P.E.
TEL: (714) 993-9500
FAX: (714) 993-5708

STRUCTURAL ENGINEER
AJIT S. RANDHAVA & ASSOCIATES
16700 VALLEY VIEW AVENUE, SUITE 270
LA MIRADA, CA 90638

ATTN.: CHENG - YU TSAI (MITCH), P.E.
TEL: (714) 522-0911
FAX: (714) 522-1149

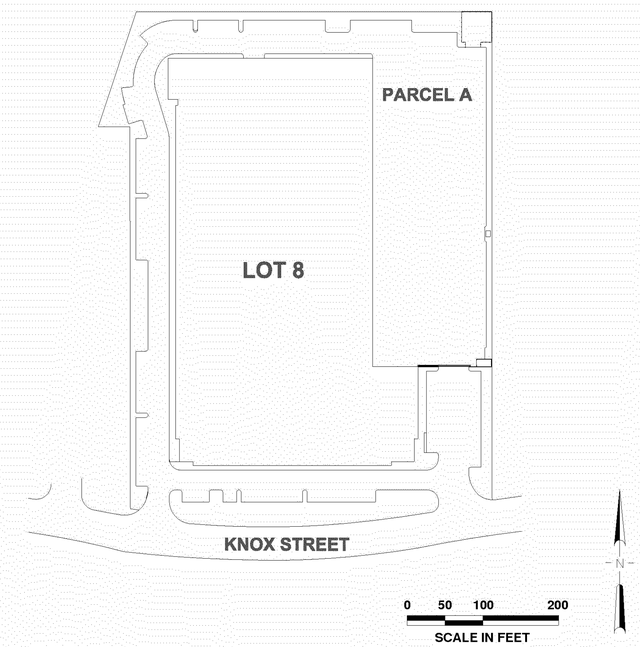
ELECTRICAL / MECHANICAL
RPM ENGINEERS, INC.
2452 DUPONT DRIVE
IRVINE, CA 92612

ATTN.: MANRICE E. YEE, P.E.
TEL: (949) 476-1884
FAX: (949) 476-1885

LANDSCAPE ARCHITECT
WILSON ASSOCIATES
11262 WARMINGTON ST.
RIVERSIDE, CA 92503

ATTN.: SCOTT WILSON
TEL: (909) 353-2436
FAX: (909) 353-1103

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1	G-1	COVER SHEET/DRAWING INDEX
2	G-2	GENERAL NOTES
3	C-1	BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT
4	C-2	BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT
5	C-3	BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT
6	C-4	BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT
7	C-5	CIVIL DETAILS - BIOREMEDIATION AMENDMENT PIPING TRENCHES AND VAULTS
8	C-6	CIVIL DETAILS - BIOREMEDIATION AMENDMENT PIPING TRENCHES AND VAULTS
9	C-7	CIVIL DETAILS - SOIL VAPOR EXTRACTION, AND VAPOR MITIGATION PIPING
10	C-8	CIVIL DETAILS - REMEDIATION EQUIPMENT COMPOUND
11	C-9	CIVIL DETAILS - SOIL VAPOR EXTRACTION PIPING MANIFOLDS
12	E-1	ELECTRICAL ONE LINE DIAGRAM AND LOAD CALCULATION



PROJECT LOCATION MAP

LOT 8 MAP

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

LOT 8
BIOREMEDIATION AMENDMENT AND SOIL VAPOR EXTRACTION SYSTEM

PROJECT NO. 28882-540

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA
COVER SHEET/DRAWING INDEX

Date: OCTOBER 2004
Scale: AS SHOWN
File No. 28882D01

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 1 of 12
Drawing No. G-1
Issue 2

28882D01-AC

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REQUIREMENTS.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND LOCATIONS SHOWN PRIOR TO COMMENCING WORK. ANY CONFLICTS WITH DETAILS AND NOTES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER IN WRITING.

3. DETAILS TAKE PRECEDENCE OVER GENERAL DRAWINGS. WHERE NOTES CONFLICT WITH ANY DRAWING, THE MOST RESTRICTIVE SHALL APPLY. WHERE CONFLICTS EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY. NO CHANGES OR ADDITIONS TO THE SCOPE OF WORK DEPICTED HEREIN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

4. CONTRACTOR SHALL OBTAIN ANY/ALL NECESSARY CONSTRUCTION PERMITS, INCLUDING ELECTRICAL AND PLUMBING PERMITS AND SCHEDULE ANY REQUIRED INSPECTIONS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ANY PERMITS AT THE JOB SITE FOR AGENCY INSPECTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO BEGINNING WORK.

5. CONTRACTOR SHALL LOCATE ALL UTILITIES AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY UTILITIES DAMAGED BY THE CONTRACTOR AND PROVIDE FOR SERVICE CONTINUATION DURING REPAIRS AT HIS EXPENSE.

6. YTILITY CROSSINGS AND DEPTHS WITHIN THE PARCEL BOUNDARIES ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

7. LOCATIONS OF UTILITIES OUTSIDE THE PARCEL BOUNDARY ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHALL BE PROTECTED.

8. THE CONTRACTOR SHALL MAINTAIN AN ORDERLY AND CLEAN JOB SITE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION RELATED TRASH, DEBRIS, AND EXCESS MATERIALS.

9. THE CONTRACTOR'S LAYDOWN AREA FOR MATERIALS SHALL BE COORDINATED WITH THE ENGINEER AND OTHER ON-SITE CONTRACTORS. SECURITY FOR CONTRACTOR'S EQUIPMENT AND MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR.

10. THE ELEVATION OF FEATURES (UTILITIES AND FOUNDATIONS) SHALL BE CONFIRMED WITH THE HALEY & ALDRICH FIELD ENGINEER AND SITE CONSTRUCTION MANAGER BEFORE EXCAVATING TRENCHES THAT CROSS FEATURES.

11. ALL OPEN EXCAVATIONS SHALL BE SUPPORTED IN ACCORDANCE WITH APPLICABLE OSHA REQUIREMENTS.

12. INSTALLATION OF HDPE PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES. HDPE PIPE SHALL BE STORED AND HANDLED SO AS NOT TO DAMAGE THE PIPE.

13. HDPE PIPE SHALL BE JOINED BY SOCKET FUSION WELDING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES. REQUIREMENTS FOR FUSION TIME, TEMPERATURE, AND PRESSURE SHALL BE FOLLOWED. ALL PIPE JOINTS SHALL ALIGN NATURALLY AND BE STRESS-FREE.

14. PVC PIPE SHALL BE JOINED BY SOLVENT WELDING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL PIPE JOINTS SHALL ALIGN NATURALLY AND BE STRESS FREE.

15. NEW BIOAMENDMENT WELLS WILL BE INSTALLED AND STUBBED OUT ABOVE GROUND SURFACE BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR COMPLETING WELLHEADS AT ELEVATIONS INDICATED ON DRAWINGS.

16. ALL EXISTING SVE WELLS WILL BE CUT AND CAPPED APPROXIMATELY 4 FEET BELOW GRADE BY THE CONTRACTOR TO FACILITATE SITE GRADING ACTIVITIES . THE CONTRACTOR SHALL VERIFY THIS DEPTH WITH THE HALEY & ALDRICH ENGINEER PRIOR CUTTING AND CAPPING THE WELLS. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND RE-EXCAVATING THESE WELLS FOR CONNECTION TO THE PIPING NETWORK.

17. THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ENSURING A UNIFORM, SLOPED BEDDING AND COVER FOR SVE PIPING THAT CONTINUOUSLY SUPPORTS THE PIPE AT A MINIMUM ½ PERCENT SLOPE.

18. ELEVATIONS INDICATED ON DRAWINGS C-1 THROUGH C-4 ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO WORK. NO CONTRACT MODIFICATION WILL BE ALLOWED FOR DIFFERENCE BETWEEN FIELD CONDITIONS AND DESIGN ELEVATIONS.

19. ALL HDPE BENDS SHALL BE A MINIMUM OF 3' IN RADIUS.

20. HDPE TO PVC TRANSITION FITTINGS CONNECTIONS SHALL BE ENCASED IN A MINIMUM 1.5 SACK CONCRETE SLURRY TO PREVENT MOVEMENT.

21. ALL UNDERGROUND PVC AND HDPE PIPES WILL BE SUPPORTED WITH JIGS OR TEMPLATES DURING CONSTRUCTION TO MAINTAIN THE REQUIRED SPACING BETWEEN PIPES AND SVE PIPE SLOPE. JIGS AND TEMPLATES SHALL BE DESIGNED AND PLACED SO THAT THEY DO NOT PINCH THE PIPE OR CONSTRICT THE FLOW OF FLUID WHEN IN USE.

22. ALL ABOVE GROUND PIPING SHALL BE SUPPORTED BY THE GROUND SURFACE AND/OR ATTACHED TO UNISTRUT (OR EQUIVALENT) SUPPORTS. SPACING BETWEEN PIPE SUPPORTS WILL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PREVENT SAGGING.

23. ALL PIPE TERMINATIONS INSIDE VAULTS SHALL BE CORRECTLY LABELED WITH THE ASSOCIATED WELLHEAD IDENTIFICATION LABEL USING STAMPED STAINLESS STEEL TAGS.

24. SECONDARY CONTAINMENT WALLS WITHIN THE SVE COMPOUND SHALL BE CONSTRUCTED OF CMU BLOCKS AND GROUT.

25. THE SLAB AT THE REMEDIATION EQUIPMENT COMPOUND WIIL BE DESIGNED AND INSTALLED BY OTHERS.

26. THE NEW KNOCKOUT WATER STORAGE / BIOAMENDMENT TRANSFER TANK SHALL BE A 6,000 GALLON SNYDER CONICAL BOTTOM TANK, PART NUMBER 528043 OR EQUIVELANT, WITH STAND. TANK STAND SHALL BE ANCHORED ACCORDING TO STRUCTURAL ENGINEERS RECOMMENDATIONS.

27. SOIL VAPOR EXTRACTION MANIFOLDS SHALL BE CONSTRUCTED ENTIRELY WITHIN THE SVE COMPOUND.

28. HDPE PIPING SHALL BE 1 INCH DIAMETER SDR-11.

29. ALL PVC PIPING, VALVES, AND FITTINGS SHALL BE SCHEDULE 80.

30. ALL PIPING SHALL BE PERMANENTLY LABELED AT EACH END WITH ASSOCIATED WELLHEAD IDENTIFICATION LABEL BEFORE COVERING WITH CONCRETE SLURRY OR SOIL.

31. HDPE AND PVC PIPING SHALL BE INSTALLED, TESTED, AND COVERED WITH CONCRETE SLURRY OR SAND ONE LAYER AT A TIME,IN ACCORDANCE WITH THE LAYOUT AND DETAILS PROVIDED ON SHEETS C-1 THROUGH C-9.

32. OPEN TRENCHES SHALL BE COMPLETELY SURROUNDED BY TEMPORARY SAFETY FENCING AT ALL TIMES WHEN WORK IS NOT BEING DONE IN THE IMMEDIATE AREA. THE SAFETY FENCING SHALL BE MAINTAINED UNTIL THE TRENCH IS BACKFILLED AND COMPACTED TO THE EXISTING GRADE.

33. PRIOR TO BACKFILL, ALL NEW HDPE PIPING WILL BE HYDROSTATICALLY PRESSURE TESTED AT 150% OF THE DESIGN SERVICE PRESSURE. IN ACCORDANCE WITH BOEING PROTOCOL, AFTER INITIAL PRESSURIZATION OF THE HDPE PIPE, THE CONTRACTOR WILL ALLOW A MINIMUM EXPANSION PERIOD OF 20 MINUTES. IF NO LEAKS ARE OBSERVED, THE PIPE WILL BE PRESSURIZED TO THE INITIAL TEST PRESSURE AND THE PIPE PRESSURE TESTED FOR A MINIMUM OF ONE HOUR. A LOSS OF PRESSURE WILL INDICATE A LEAK REQUIRING REPAIR AND RE-TESTING AT THE CONTRACTORS EXPENSE. THE HALEY & ALDRICH ENGINEER MUST WITNESS PRESSURE TESTING.

34. PRIOR TO BACKFILL, ALL NEW HDPE PIPING SHALL BE FLUSHED WITH WATER TO REMOVE ANY GRIT, SAND, AND DEBRIS FROM THE PIPE. FLUSHING SHALL NOT EXCEED THE HDPE DESIGN PRESSURE.

35. PRIOR TO BACKFILL, ALL NEW PVC PIPING WILL BE TESTED BY APPLYING LOW PRESSURE AIR TO THE PIPING. A WATER/SOAP LIQUID WILL BE APPLIED TO EACH CONNECTION. IF A LEAK IN THE CONNECTION IS OBSERVED, THE LEAK WILL BE REPAIRED AND RE-TESTED AT THE CONTRACTOR'S EXPENSE. THE HALEY & ALDRICH ENGINEER MUST WITNESS TESTING.

36. THE CONTRACTOR SHALL NOT BACKFILL THE TRENCHES UNLESS APPROVAL IS PROVIDED BY THE HALEY & ALDRICH ENGINEER.

37. CONTINUOUS MAGNETIC LOCATOR TAPE WILL BE INSTALLED IN ALL TRENCHES DURING BACKFILLING FOR IDENTIFICATION PURPOSES.

38. SOIL TRENCH BACKFILL, WHERE INDICATED, SHALL BE MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY FROM THE GROUND SURFACE TO 12 INCHES BELOW GROUND SURFACE. BACKFILL BELOW 12 INCHES SHALL BE MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY. THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ANY DAMAGE TO THE PIPE DURING BEDDING AND BACKFILL PLACEMENT.

39. COMPACTED BACKFILL SHALL BE TESTED IN ACCORDANCE WITH ASTM D1557 TO DOCUMENT MINIMUM COMPACTION REQUIREMENTS ARE MET.

40. CONCRETE SLURRY, WHERE INDICATED, SHALL BE A MINIMUM 2 SACK MIX WHERE TRENCHES CROSS OTHER BELOW GRADE UTILITY LOCATIONS AND BUILDING FOOTINGS. SLURRY MIX AT OTHER LOCATIONS SHALL BE A MINIMUM 1-1/2 SACK MIX.

41. PRIOR TO BACKFILL, ALL PIPE TRENCHES SHALL BE SURVEYED FOR CENTERLINE OF TRENCH AND WELL LOCATIONS. ALL NEW PVC PIPING SHALL BE SURVEYED EVERY 20 LINEAR FEET AND AT PIPE UNIONS, CHANGES IN DIRECTION, AND LOCATIONS WHERE SLOPE CHANGES.

42. ALL SURVEY WORK SHALL BE COMPLETED BY A CALIFORNIA REGISTERED LAND SURVEYOR. THE LAND SURVEYOR SHALL ONLY USE BENCHMARKS ESTABLISHED, OR USED BY, THE LOT 8 CONSTRUCTION / CIVIL ENGINEERING CONTRACTOR.

43. FINAL GROUND SURFACE ELEVATION IN LANDSCAPED AREAS SHALL BE CONFIRMED WITH THE HALEY & ALDRICH FIELD ENGINEER AND SITE CONSTRUCTION MANAGER BFORE EXCAVATING FOR VAULT INSTALLATION.

44. THE CONTRACTOR SHALL REPLACE IN KIND ALL LANDSCAPE PLANTINGS AND GROUND COVERINGS DISTURBED OR DAMAGED BY THE WORK.

45. THE SEQUENCING OF INSTALLATION OF PIPING THAT CROSSES UTILITIES INSTALLED BY OTHERS SHALL BE COORDINATED WITH THE ENGINEER AND THE DEVELOPER'S CONTRACTOR AT LEAST 30 DAYS IN ADVANCE.

46. CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION AND INTEGRITY OF EXISTING SVE AND GROUNDWATER MONITORING WELLS.

47. THE CONTRCTOR SHALL BE RESPONSIBLE FOR INSTALLING CHAIN LINK FENCE ON THE WEST AND SOUTH SIDES OF THE REMEDIATION EQUIPMENT COMPOUND. THE SVE COMPOUND CHAIN LINK FENCING SHALL INCLUDE PVC PRIVACY SLATS ON ALL SIDES AND GATES. THE COLOR SHALL BE SPECIFIED BY THE DEVELOPER.

48. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD LOCATING AND PROTECTING EXISTING GROUNDWATER MONITORING WELLS. DAMAGE TO THE WELLS BY THE CONTRACTOR WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

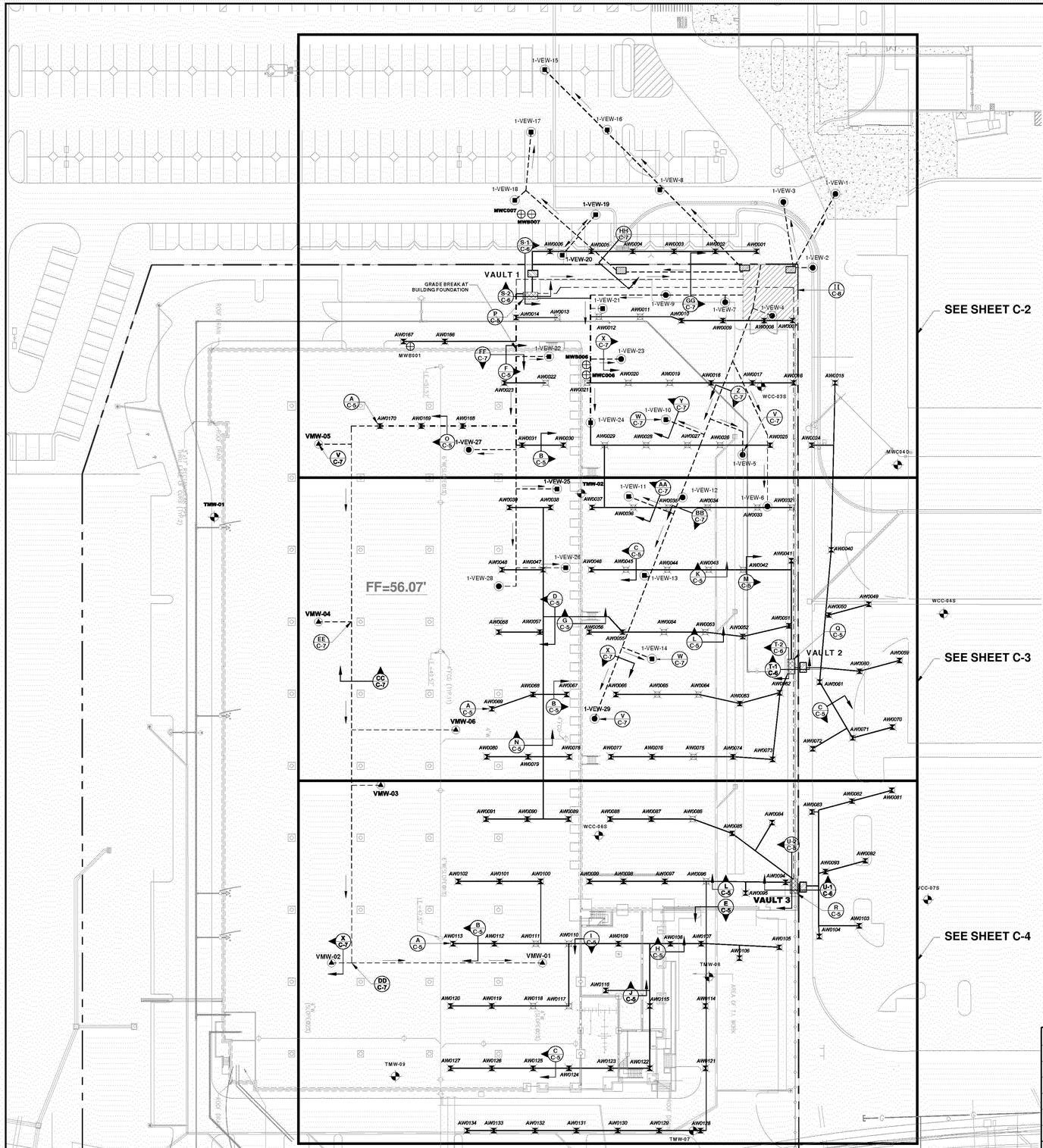
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

GENERAL NOTES

Date: OCTOBER 2004
Scale:
File No. 28882D02

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 2 of 12
Drawing No. G-2
Issue 2

28882D02-AC



LEGEND

AW0001	SINGLE BIOAMENDMENT INJECTION WELL LOCATION
AW0011	NESTED BIOAMENDMENT INJECTION WELL LOCATION
1-VEW-9	SINGLE COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
1-VEW-14	DUAL COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
VMW-04	VAPOR MITIGATION WELL LOCATION
TMW-01	EXISTING GROUNDWATER MONITORING WELL
MWC006	PROPOSED GROUNDWATER MONITORING WELL BY OTHERS
	COLUMN FOOTING BY OTHERS
	BIOAMENDMENT PIPE TRENCH
	SOIL VAPOR EXTRACTION / VAPOR MITIGATION PIPE TRENCH AND SLOPE DIRECTION
	COMBINED REMEDIATION PIPING TRENCH
	BIOAMENDMENT REMOTE FILL LINE
	UTILITY TRENCH FOR FUTURE WATER LINE AND ELECTRICAL CONDUIT
VAULT 1	LOCATION OF NEW FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
	TEMPORARY SUBSURFACE BIOAMENDMENT TERMINATION STRUCTURE
	TEMPORARY SUBSURFACE SOIL VAPOR EXTRACTION PIPE TERMINATION LOCATION
	BOUNDARY OF ADDITIONAL ENLARGED SHEET
	PARCEL BOUNDARY
	FIRE LINE
	STORMDRAIN
	SWALE
	CATCH BASIN
FF	FINISH FLOOR ELEVATION
FL	FLOW LINE ELEVATION
FS	FINISH SURFACE ELEVATION
SVE IE	INVERT ELEVATION OF DEEPEST SVE PIPE
TC	TOP OF CURB ELEVATION
TF	TOP OF FOOTING
TW	TOP OF WALL
NUMBER B / SHEET C-5	INDICATES DETAIL

N

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT

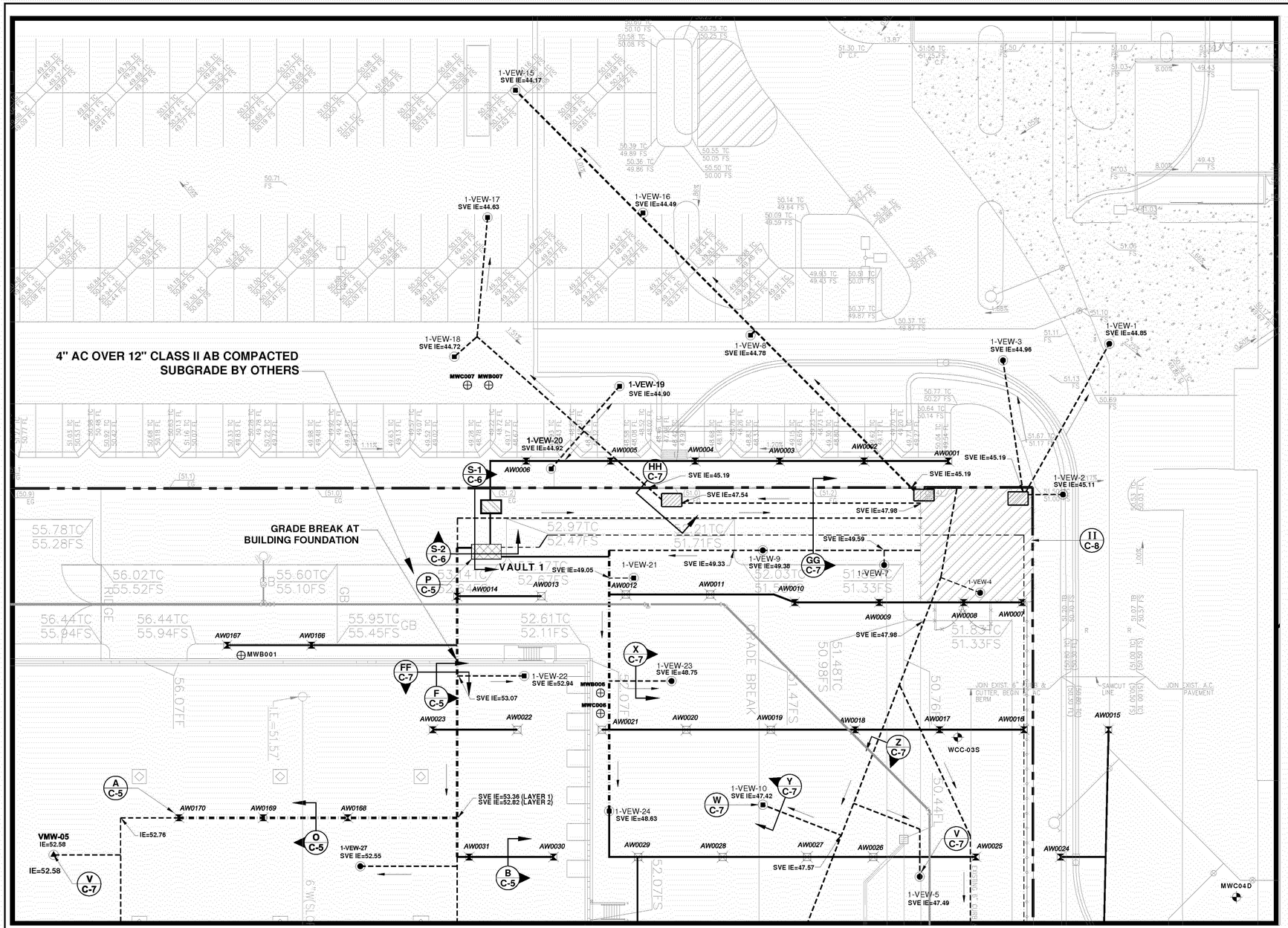
Date: OCTOBER 2004
Scale: AS SHOWN
File No. 28882D03

0 40 80
SCALE IN FEET

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 3 of 12
Drawing No. C-1
Issue 2

28882D03-AC

BOE-C6-0010191



LEGEND

AW0001	SINGLE BIOAMENDMENT INJECTION WELL LOCATION
AW0011	NESTED BIOAMENDMENT INJECTION WELL LOCATION
1-VEW-9	SINGLE COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
1-VEW-14	DUAL COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
VMW-04	VAPOR MITIGATION WELL LOCATION
TMW-01	EXISTING GROUNDWATER MONITORING WELL
MWC006	PROPOSED GROUNDWATER MONITORING WELL BY OTHERS
	COLUMN FOOTING BY OTHERS
	BIOAMENDMENT PIPE TRENCH
	SOIL VAPOR EXTRACTION / VAPOR MITIGATION PIPE TRENCH AND SLOPE DIRECTION
	COMBINED REMEDIATION PIPING TRENCH
	BIOAMENDMENT REMOTE FILL LINE
	UTILITY TRENCH FOR FUTURE WATER LINE AND ELECTRICAL CONDUIT
VAULT 1	LOCATION OF NEW FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
	TEMPORARY SUBSURFACE BIOAMENDMENT TERMINATION STRUCTURE
	TEMPORARY SUBSURFACE SOIL VAPOR EXTRACTION PIPE TERMINATION LOCATION
	BOUNDARY OF ADDITIONAL ENLARGED SHEET
	PARCEL BOUNDARY
	FIRE LINE
	STORMDRAIN
	SWALE
	CATCH BASIN
IE	INVERT ELEVATION
FF	FINISH FLOOR ELEVATION
FL	FLOW LINE ELEVATION
FS	FINISH SURFACE ELEVATION
SVE IE	INVERT ELEVATION OF DEEPEST SVE PIPE
TC	TOP OF CURB ELEVATION
TF	TOP OF FOOTING
TW	TOP OF WALL
NUMBER B / SHEET C-5	INDICATES DETAIL

N

DRAFT

NOTE:
ALL BIOAMENDMENT WELLS SHALL BE COMPLETED A MINIMUM OF 18" BELOW FINISH GRADE. BUILDING SLAB THICKNESS IS 7". EXTERIOR PAVING WITHIN PARCEL BOUNDARY IS 7-INCH PCC OVER NATIVE SOILS UNLESS SPECIFIED. SUBJECT TO CHANGE, FIELD VERIFY PRIOR TO CONSTRUCTION.

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

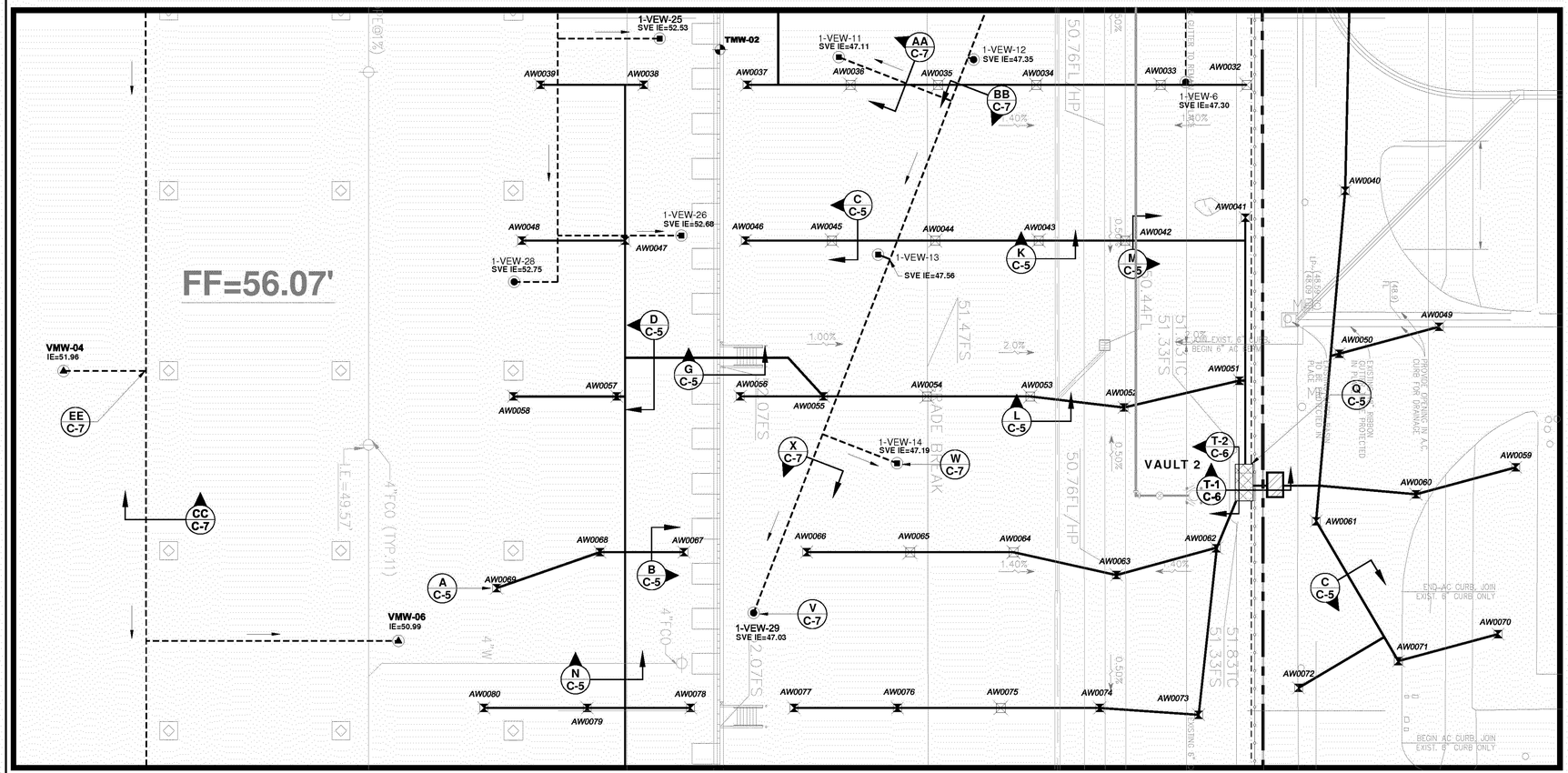
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT

Project Engineer:	RMF
Designed By:	PAK
Drawn By:	GKM
Checked By:	WCH
Sheet No.:	4 of 12
Date:	OCTOBER 2004
Scale:	AS SHOWN
File No.	28882D04
Drawing No.	C-2
Issue	2

0 20 40
SCALE IN FEET

28882D04-AC



LEGEND

AW0001	SINGLE BIOAMENDMENT INJECTION WELL LOCATION
AW0011	NESTED BIOAMENDMENT INJECTION WELL LOCATION
1-VEW-9	SINGLE COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
1-VEW-14	DUAL COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
VMW-04	VAPOR MITIGATION WELL LOCATION
TMW-01	EXISTING GROUNDWATER MONITORING WELL
MWC006	PROPOSED GROUNDWATER MONITORING WELL BY OTHERS
	COLUMN FOOTING BY OTHERS
	BIOAMENDMENT PIPE TRENCH
	SOIL VAPOR EXTRACTION / VAPOR MITIGATION PIPE TRENCH AND SLOPE DIRECTION
	COMBINED REMEDIATION PIPING TRENCH
	BIOAMENDMENT REMOTE FILL LINE
	UTILITY TRENCH FOR FUTURE WATER LINE AND ELECTRICAL CONDUIT
VAULT 1	LOCATION OF NEW FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
	TEMPORARY SUBSURFACE BIOAMENDMENT TERMINATION STRUCTURE
	TEMPORARY SUBSURFACE SOIL VAPOR EXTRACTION PIPE TERMINATION LOCATION
	BOUNDARY OF ADDITIONAL ENLARGED SHEET
	PARCEL BOUNDARY
	FIRE LINE
	STORMDRAIN
	SWALE
	CATCH BASIN
IE	INVERT ELEVATION
FF	FINISH FLOOR ELEVATION
FL	FLOW LINE ELEVATION
FS	FINISH SURFACE ELEVATION
SVE IE	INVERT ELEVATION OF DEEPEST SVE PIPE
TC	TOP OF CURB ELEVATION
TF	TOP OF FOOTING
TW	TOP OF WALL
NUMBER B / SHEET C-5	INDICATES DETAIL

N

DRAFT

NOTE:
ALL BIOAMENDMENT WELLS SHALL BE COMPLETED A MINIMUM OF 18" BELOW FINISH GRADE. BUILDING SLAB THICKNESS IS 7". EXTERIOR PAVING IS WITHIN PARCEL BOUNDARY 7-INCH PCC OVER NATIVE SOILS UNLESS SPECIFIED. SUBJECT TO CHANGE, FIELD VERIFY PRIOR TO CONSTRUCTION.

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

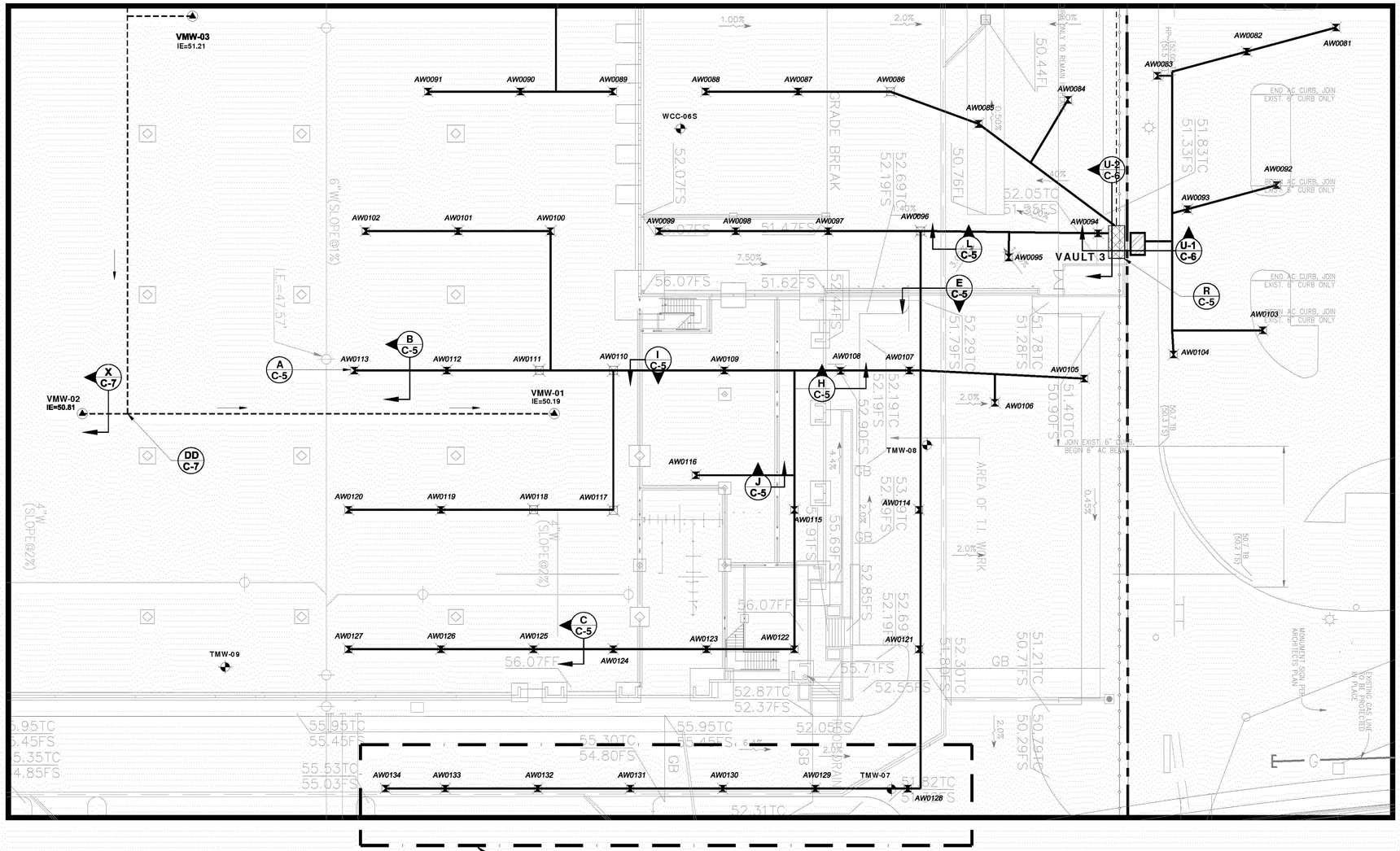
BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT

Date: OCTOBER 2004
Scale: AS SHOWN
File No. 28882D05

0 20 40
SCALE IN FEET

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 5 of 12
Drawing No. C-3
Issue 2

28882D05-AC



LEGEND

AW0001	SINGLE BIOAMENDMENT INJECTION WELL LOCATION
AW0011	NESTED BIOAMENDMENT INJECTION WELL LOCATION
1-VEW-9	SINGLE COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
1-VEW-14	DUAL COMPLETION SOIL VAPOR EXTRACTION WELL LOCATION
VMW-04	VAPOR MITIGATION WELL LOCATION
TMW-01	EXISTING GROUNDWATER MONITORING WELL
MWC006	PROPOSED GROUNDWATER MONITORING WELL BY OTHERS
	COLUMN FOOTING BY OTHERS
	BIOAMENDMENT PIPE TRENCH
	SOIL VAPOR EXTRACTION / VAPOR MITIGATION PIPE TRENCH AND SLOPE DIRECTION
	COMBINED REMEDIATION PIPING TRENCH
	BIOAMENDMENT REMOTE FILL LINE
	UTILITY TRENCH FOR FUTURE WATER LINE AND ELECTRICAL CONDUIT
VAULT 1	LOCATION OF NEW FLUSH MOUNTED VAULT FOR SUBSURFACE REMEDIATION PIPING
	TEMPORARY SUBSURFACE BIOAMENDMENT TERMINATION STRUCTURE
	TEMPORARY SUBSURFACE SOIL VAPOR EXTRACTION PIPE TERMINATION LOCATION
	BOUNDARY OF ADDITIONAL ENLARGED SHEET
	PARCEL BOUNDARY
	FIRE LINE
	STORMDRAIN
	SWALE
	CATCH BASIN
IE	INVERT ELEVATION
FF	FINISH FLOOR ELEVATION
FL	FLOW LINE ELEVATION
FS	FINISH SURFACE ELEVATION
SVE IE	INVERT ELEVATION OF DEEPEST SVE PIPE
TC	TOP OF CURB ELEVATION
TF	TOP OF FOOTING
TW	TOP OF WALL
NUMBER B / SHEET C-5	INDICATES DETAIL

N

DRAFT

NOTE:
ALL BIOAMENDMENT WELLS SHALL BE COMPLETED A MINIMUM OF 18" BELOW FINISH GRADE. BUILDING SLAB THICKNESS IS 7". EXTERIOR PAVING WITHIN PARCEL BOUNDARY IS 7-INCH PCC OVER NATIVE SOILS UNLESS SPECIFIED. SUBJECT TO CHANGE, FIELD VERIFY PRIOR TO CONSTRUCTION.

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

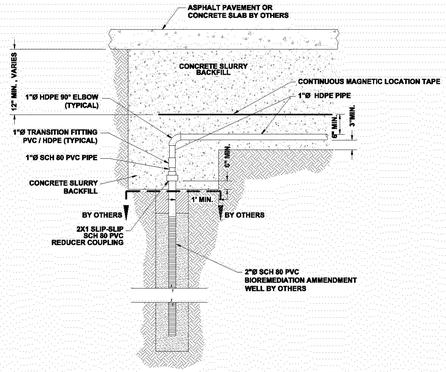
BIOREMEDIATION AMENDMENT AND SVE PIPING LAYOUT

Date: OCTOBER 2004
Scale: AS SHOWN
File No. 28882D06

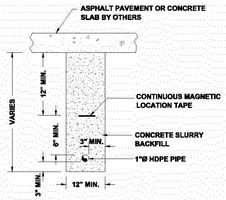
0 20 40
SCALE IN FEET

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 6 of 12
Drawing No. C-4
Issue 2

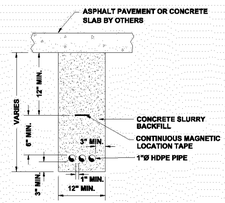
28882D06-AC



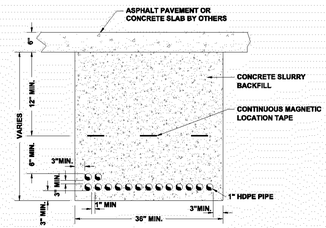
A C-5 SINGLE BIOREMEDIATION AMENDMENT WELLHEAD (TYPICAL)
NOT TO SCALE



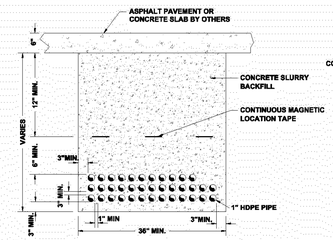
B C-5 BIOREMEDIATION AMENDMENT PIPING LATERAL TRENCH (TYPICAL)
NOT TO SCALE



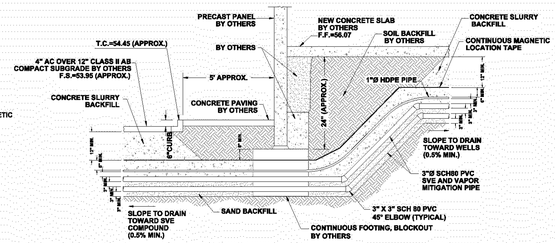
C C-5 BIOREMEDIATION AMENDMENT PIPING LATERAL TRENCH (TYPICAL)
NOT TO SCALE



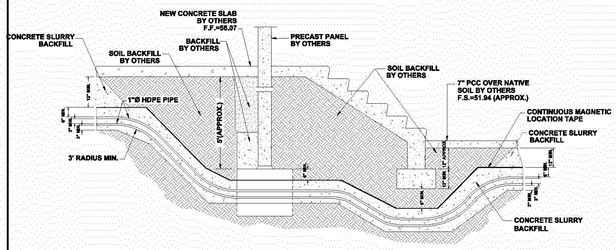
D C-5 BIOREMEDIATION AMENDMENT PIPING LATERAL TRENCH
NOT TO SCALE



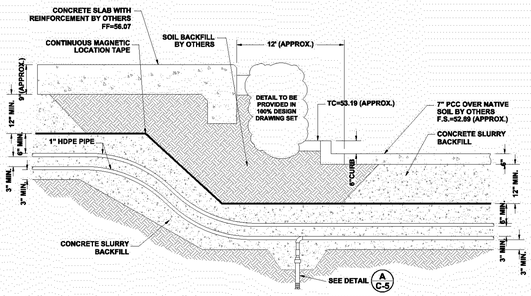
E C-5 BIOREMEDIATION AMENDMENT PIPING LATERAL TRENCH
NOT TO SCALE



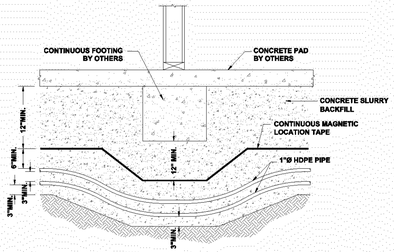
F C-5 BIOREMEDIATION AMENDMENT, SVE, AND VAPOR MITIGATION PIPING AT FOUNDATION
NOT TO SCALE



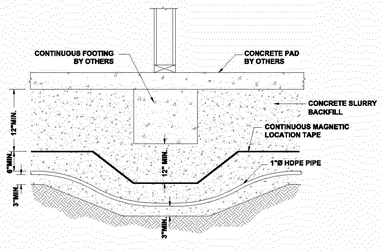
G C-5 BIOREMEDIATION AMENDMENT AT FOUNDATION
NOT TO SCALE



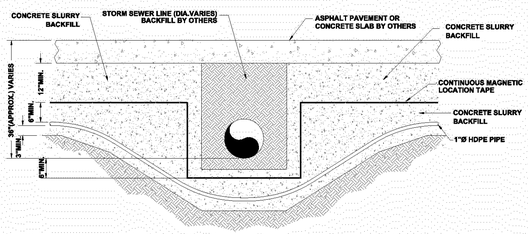
H C-5 BIOREMEDIATION AMENDMENT PIPING AT FOUNDATION
NOT TO SCALE



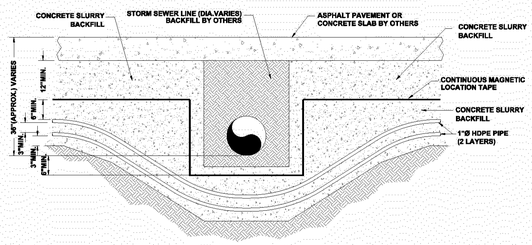
I C-5 BIOREMEDIATION AMENDMENT PIPING AT INTERIOR FOUNDATION (TYPICAL)
NOT TO SCALE



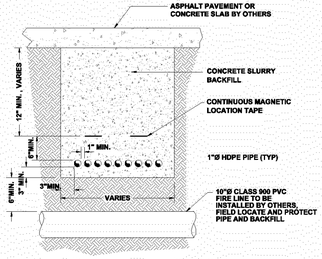
J C-5 BIOREMEDIATION AMENDMENT PIPING AT INTERIOR FOUNDATION (TYPICAL UNLESS OTHERWISE SPECIFIED)
NOT TO SCALE



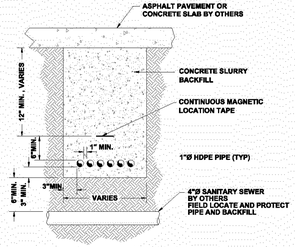
K C-5 BIOREMEDIATION AMENDMENT PIPE AT STORM DRAIN (TYPICAL UNLESS OTHERWISE SPECIFIED)
NOT TO SCALE



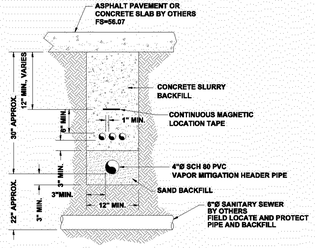
L C-5 BIOREMEDIATION AMENDMENT PIPE AT STORM DRAIN
NOT TO SCALE



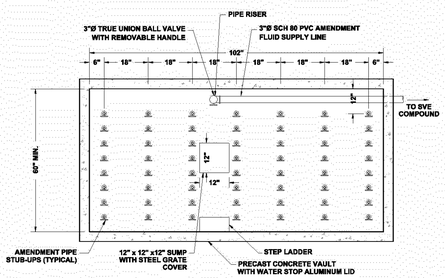
M C-5 BIOREMEDIATION AMENDMENT PIPING AT FIRE LINE (TYPICAL)
NOT TO SCALE



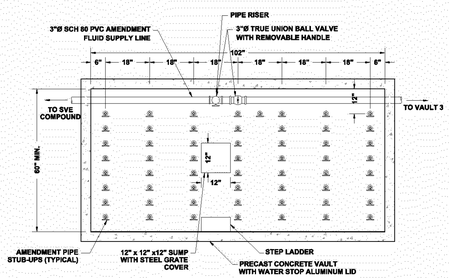
N C-5 BIOREMEDIATION AMENDMENT PIPING AT SANITARY SEWER (TYPICAL UNLESS OTHERWISE SPECIFIED)
NOT TO SCALE



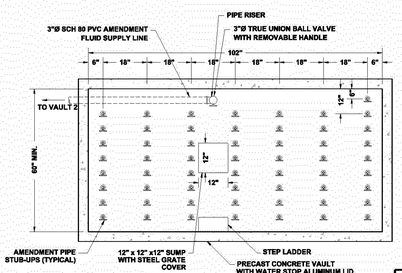
O C-5 BIOREMEDIATION AMENDMENT AND VAPOR MITIGATION PIPING AT SANITARY SEWER
NOT TO SCALE



P C-5 BIOREMEDIATION AMENDMENT VAULT 1 - PLAN VIEW
NOT TO SCALE



Q C-5 BIOREMEDIATION AMENDMENT VAULT 2 - PLAN VIEW
NOT TO SCALE



R C-5 BIOREMEDIATION AMENDMENT VAULT 3 - PLAN VIEW
NOT TO SCALE

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

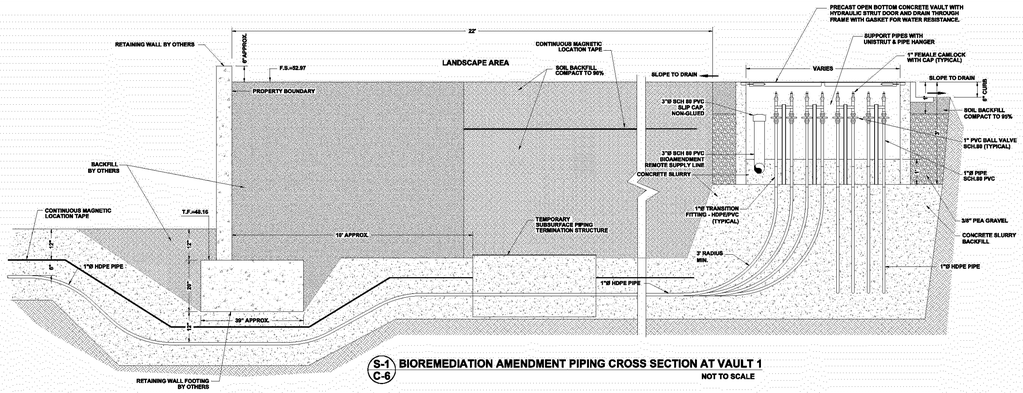
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

CIVIL DETAILS–BIOREMEDIATION PIPING TRENCHES AND VAULTS

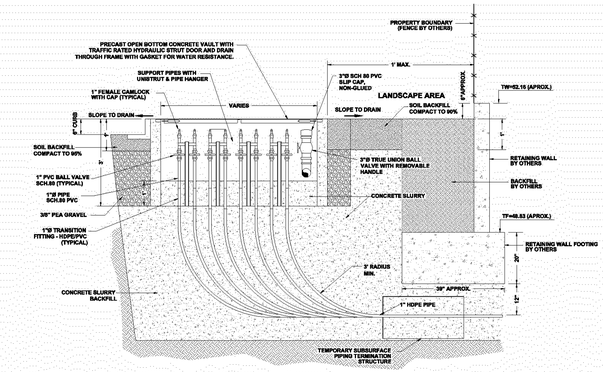
Date:	Scale:	File No.
OCTOBER 2004	NOT TO SCALE	28882D07

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 7 of 12
Drawing No. C-5 Issue 2

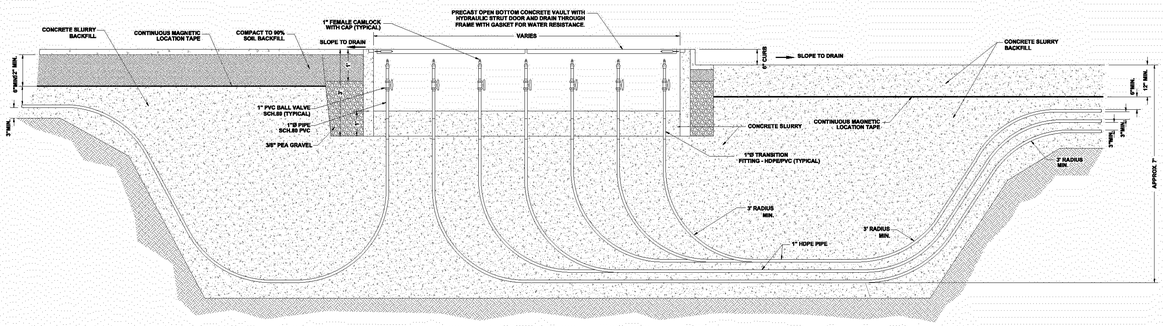
28882D07-AC



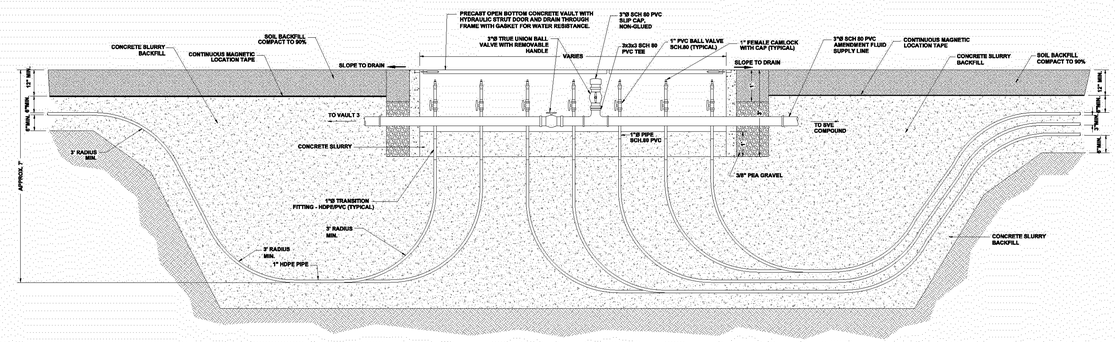
S-1 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 1
NOT TO SCALE



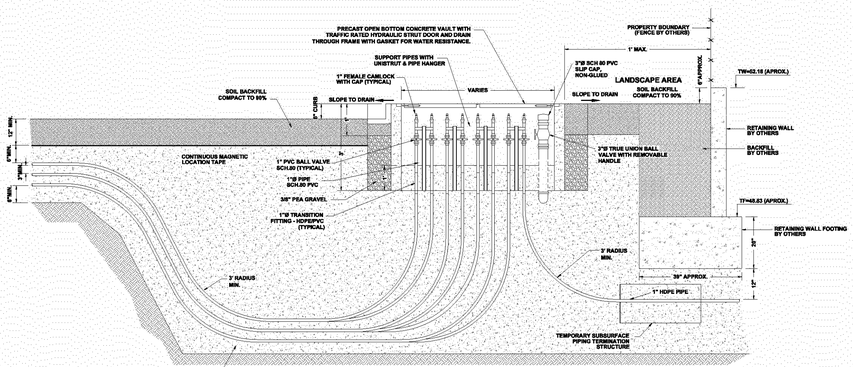
T-1 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 2
NOT TO SCALE



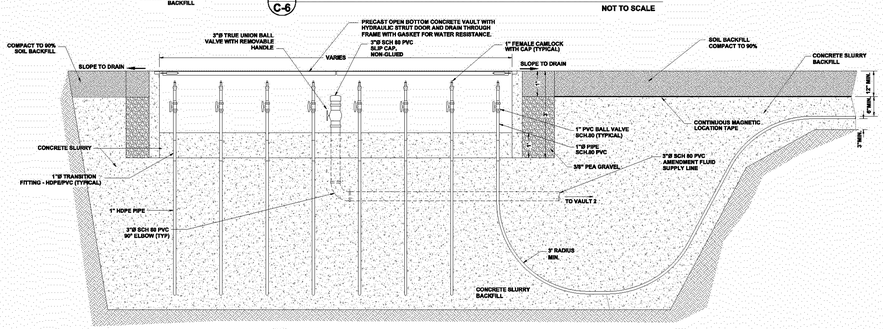
S-2 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 1
NOT TO SCALE



T-2 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 2
NOT TO SCALE



U-1 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 3
NOT TO SCALE



U-2 / C-6 BIOREMEDIATION AMENDMENT PIPING CROSS SECTION AT VAULT 3
NOT TO SCALE

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

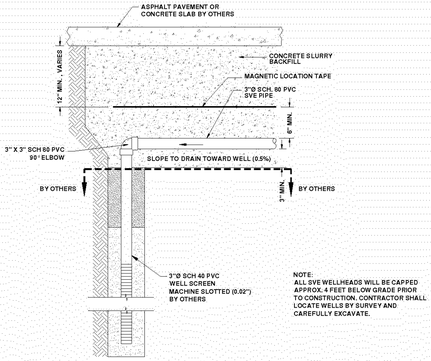
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

CIVIL DETAILS—BIOREMEDIATION PIPING TRENCHES AND VAULTS

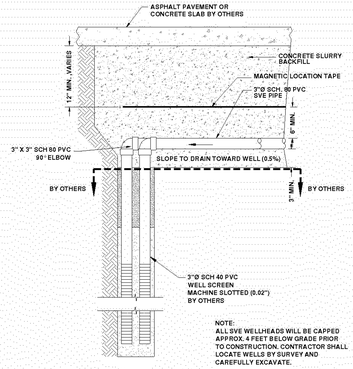
Date: OCTOBER 2004
Scale: NOT TO SCALE
File No. 28882D08

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 8 of 12
Drawing No. C-6
Issue 2

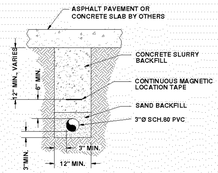
28882D08-AC



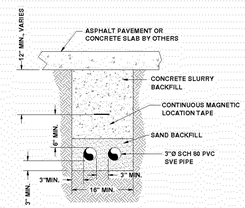
V C-7 3" SOIL VAPOR EXTRACTION AND VAPOR MITIGATION WELLHEAD (TYPICAL)
NOT TO SCALE



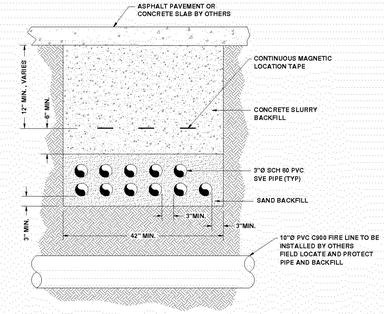
W C-7 3" DUAL UNDERGROUND SOIL VAPOR EXTRACTION WELL DETAIL (TYPICAL)
NOT TO SCALE



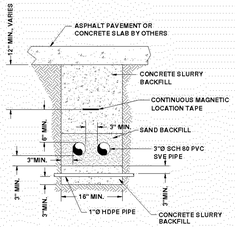
X C-7 SOIL VAPOR EXTRACTION AND VAPOR MITIGATION PIPING LATERAL TRENCH (TYPICAL)
NOT TO SCALE



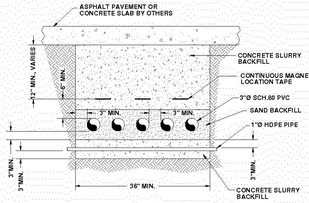
Y C-7 SOIL VAPOR EXTRACTION PIPING LATERAL TRENCH (TYPICAL)
NOT TO SCALE



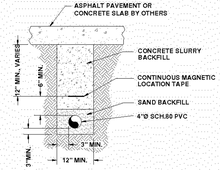
Z C-7 SOIL VAPOR EXTRACTION AND BIOREMEDIATION PIPING AT FIRE LINE
NOT TO SCALE



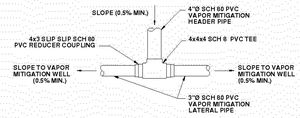
AA C-7 SOIL VAPOR EXTRACTION AND BIOREMEDIATION AMENDMENT TRENCH CROSSING (TYPICAL)
NOT TO SCALE



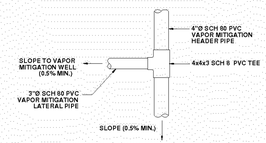
BB C-7 SOIL VAPOR EXTRACTION AND BIOREMEDIATION AMENDMENT TRENCH CROSSING
NOT TO SCALE



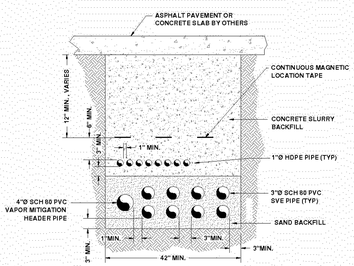
CC C-7 VAPOR MITIGATION PIPING HEADER TRENCH
NOT TO SCALE



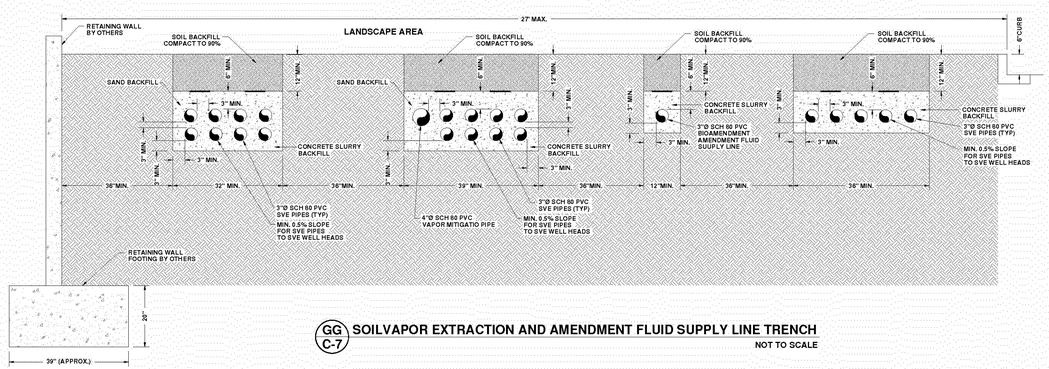
DD C-7 VAPOR MITIGATION LATERAL TO HEADER CONNECTION - PLAN VIEW
NOT TO SCALE



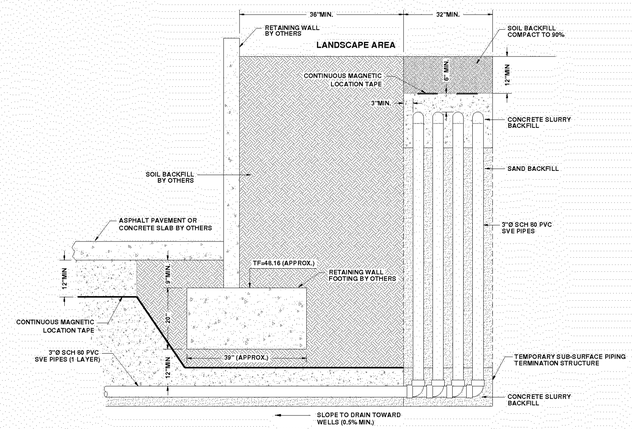
EE C-7 VAPOR MITIGATION LATERAL TO HEADER CONNECTION - PLAN VIEW (TYPICAL)
NOT TO SCALE



FF C-7 SOIL VAPOR EXTRACTION, VAPOR MITIGATION, AND BIOAMENDMENT PIPING COMMON TRENCH
NOT TO SCALE



GG C-7 SOILVAPOR EXTRACTION AND AMENDMENT FLUID SUPPLY LINE TRENCH
NOT TO SCALE



HH C-7 SOIL VAPOR EXTRACTION PIPING UNDER RETAINING WALL FOOTING (TYPICAL)
NOT TO SCALE

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

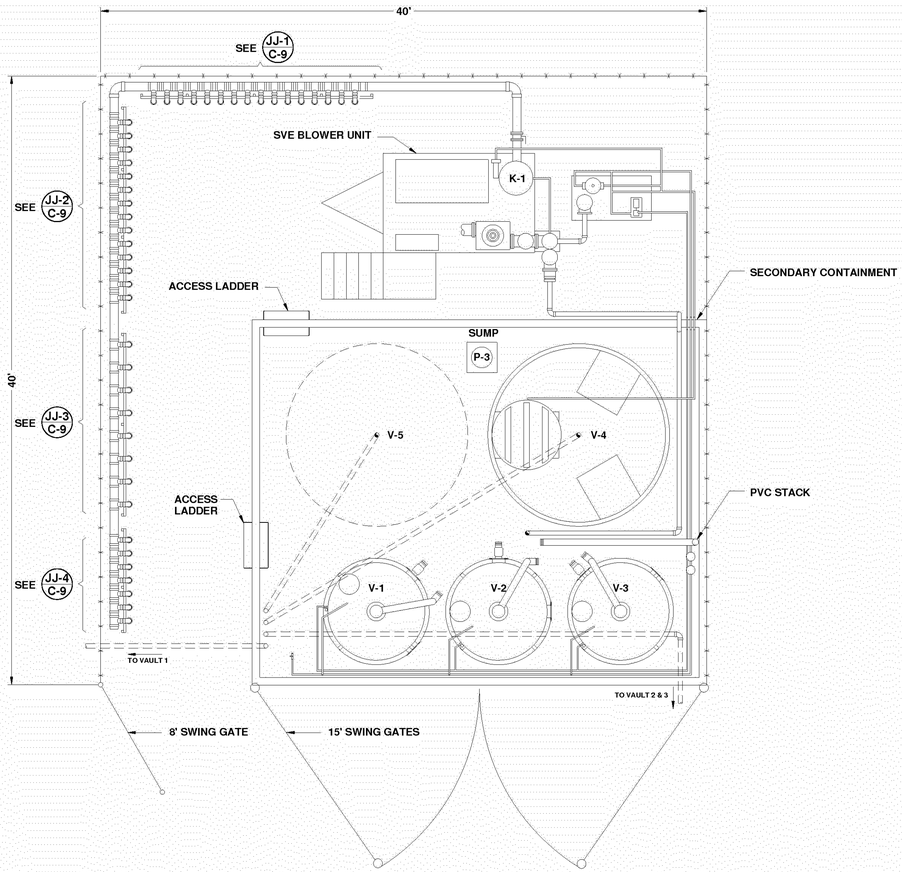
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

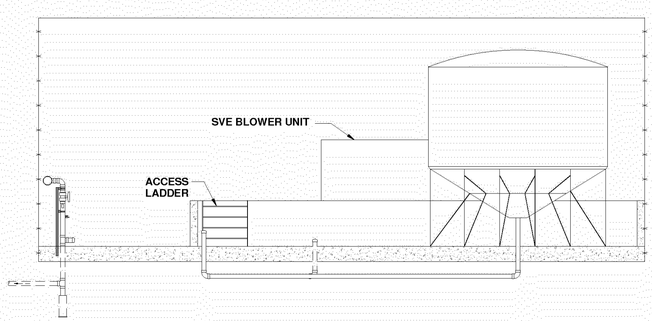
CIVIL DETAIL – SOIL VAPOR EXTRACTION/VAPOR MITIGATION PIPING

Date: OCTOBER 2004
Scale: NOT TO SCALE
File No. 28882D09

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 9 of 12
Drawing No. C-7
Issue 2

28882D09-AC





II C-8 **REMEDIATION EQUIPMENT COMPOUND**
NOT TO SCALE

NOTE:
REMEDIATION EQUIPMENT COMPOUND DETAILS PROVIDED ARE CONCEPTUAL ONLY. FINAL LAYOUT AND DESIGN TO BE PROVIDED IN 100% DESIGN.

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

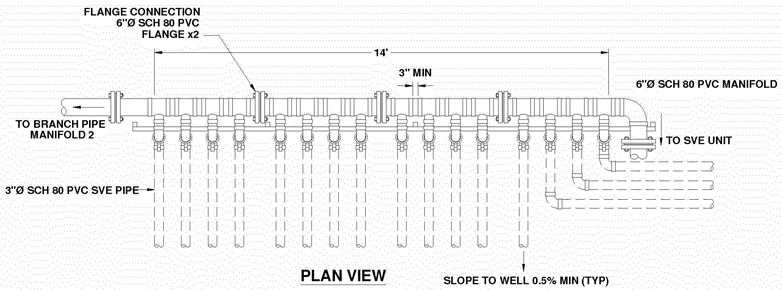
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

CIVIL DETAILS – REMEDIATION EQUIPMENT COMPOUND

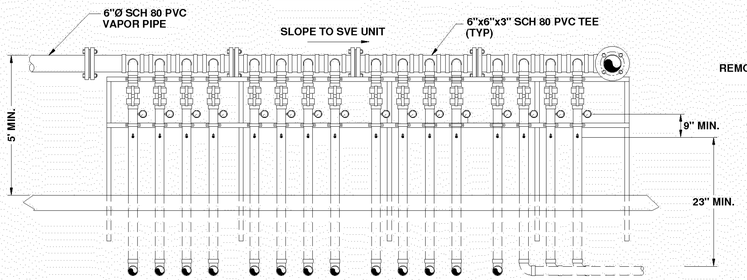
Date:	Scale:	File No.
COTOBER 2004	NOT TO SCALE	28882D11

Project Engineer:	RMF
Designed By:	PAK
Drawn By:	GKM
Checked By:	WCH
Sheet No.:	10 of 12
Drawing No.	C-8
Issue	2

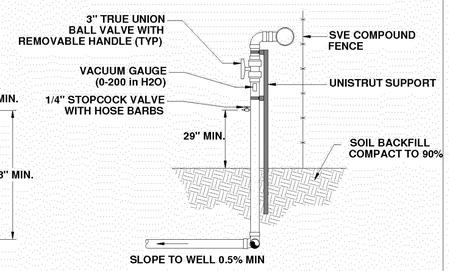
28882D10-AC



PLAN VIEW

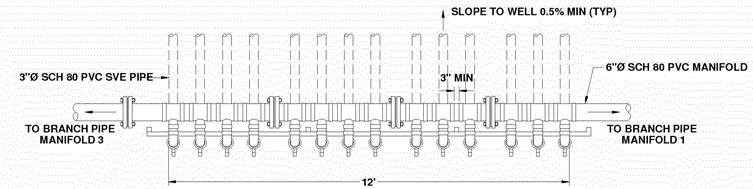


ELEVATION

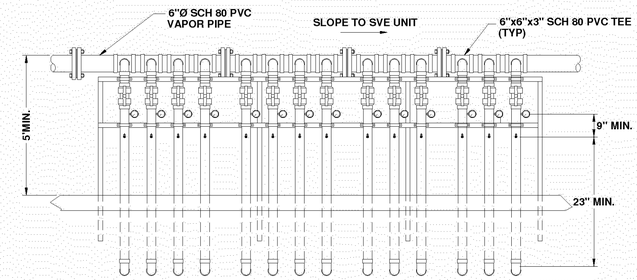


SECTION

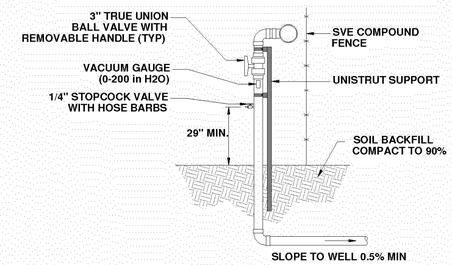
JJ-1 C-9 **BRANCH PIPE MANIFOLD 1 - 3 VIEWS**
NOT TO SCALE



PLAN VIEW

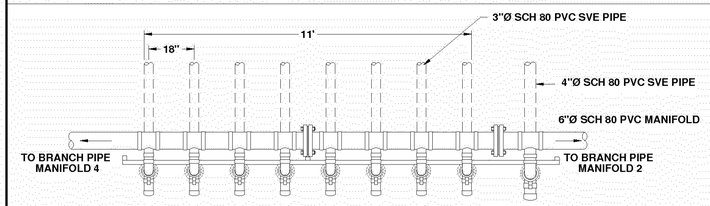


ELEVATION

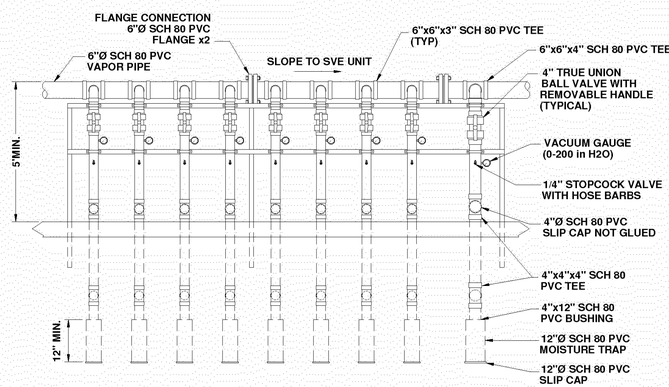


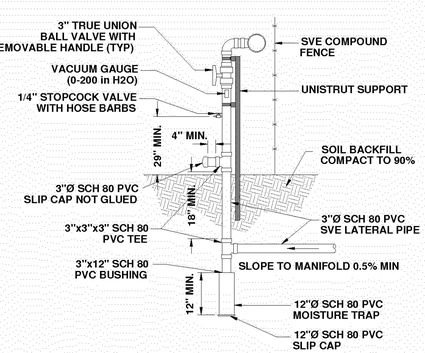
SECTION

JJ-2 C-9 **BRANCH PIPE MANIFOLD 2 - 3 VIEWS**
NOT TO SCALE



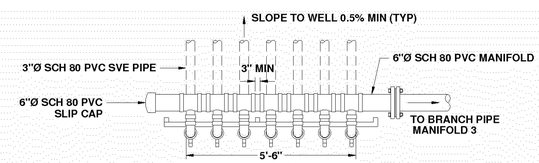
PLAN VIEW



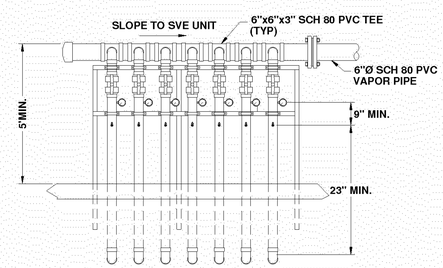


SECTION (TYPICAL UNLESS OTHERWISE SPECIFIED)

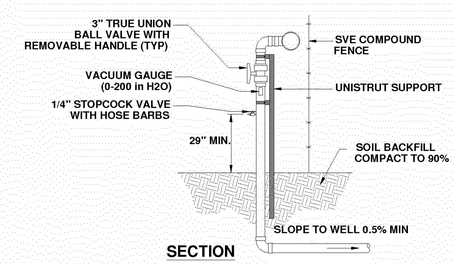
JJ-3 C-9 **BRANCH PIPE MANIFOLD 3 - 3 VIEWS**
NOT TO SCALE



PLAN VIEW



ELEVATION



SECTION

JJ-4 C-9 **BRANCH PIPE MANIFOLD 4 - 3 VIEWS**
NOT TO SCALE

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280-9210
Fax: (619) 280-9415

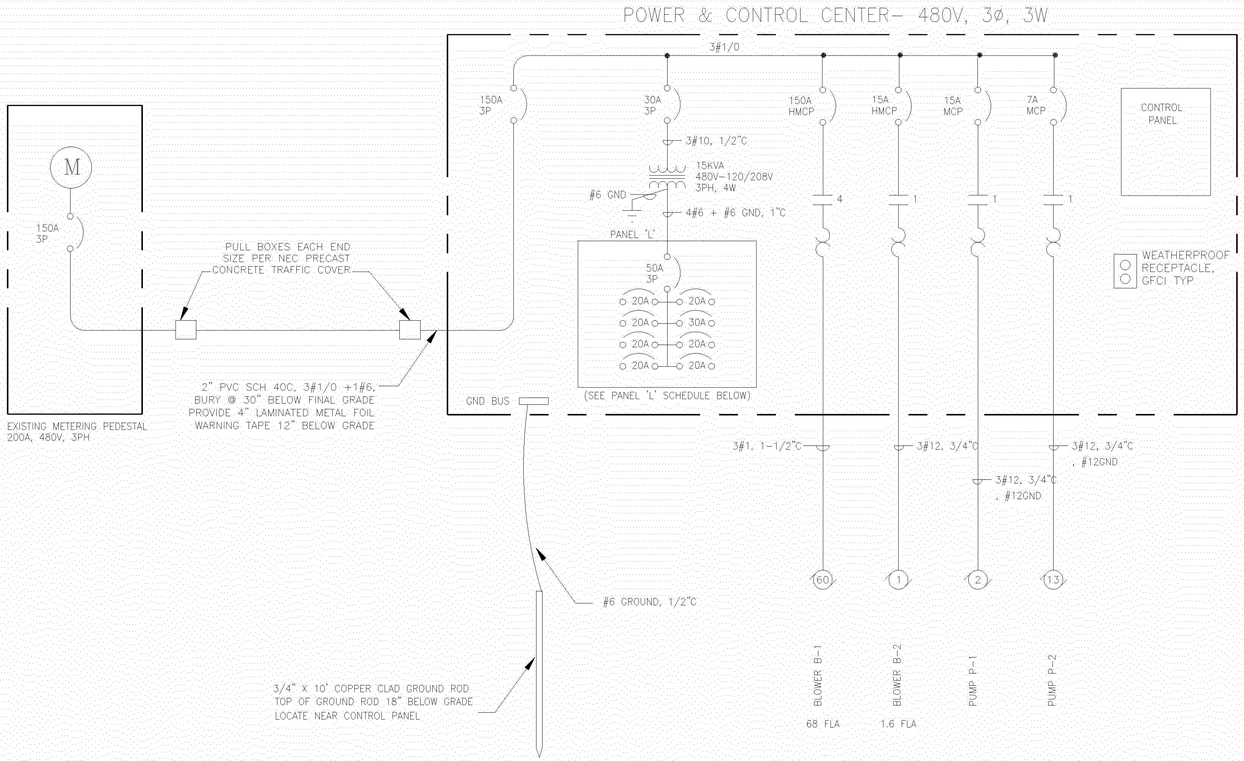
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

CIVIL DETAILS – SOIL VAPOR EXTRACTION PIPING MANIFOLDS

Date: OCTOBER 2004
Scale: NOT TO SCALE
File No. 28882D11

Project Engineer: RMF
Designed By: PAK
Drawn By: GKM
Checked By: WCH
Sheet No.: 11 of 12
Drawing No. C-9
Issue 2

28882D11-AC



REMEDIATION SYSTEM ONE LINE DIAGRAM

SYMBOLS LEGEND

- CONDUIT & WIRING
- JUNCTION BOX
- MOTOR, HORSEPOWER AS INDICATED
- MOTOR CONTACTOR, SIZE AS SHOWN
- CIRCUIT BREAKER
- STATION GROUND
- OVERLOADS
- OWNER'S METER
- TRANSFORMER IN WEATHERPROOF ENCLOSURE

VOLTS 208/120V
PHASE 3PH, 4 WIRE
A.I.C. 10,000

PANEL 'L'
LOCATION MCC ENCLOSURE

MAIN BREAKER 50A, 3P
BUS 100A
MOUNTING SURFACE

LOAD DESCRIPTION	LTG	REC	MSC	A/P	NO.	VA LOAD A	VA LOAD B	VA LOAD C	NO.	A/P	MSC	REC	LTG	LOAD DESCRIPTION
CONTROL SYSTEM			1	20/1	1	100			2	20/1				SPARE
CHART RECORDER			1	20/1	3	0	100		4	30/1	1			TRANSFER PUMP P–2 (1/2 HP) ***
SPARE				20/1	5		1130		6	20/1	1		1	RECEPTACLE (GFCI)
SPARE				20/1	7			180	8	20/1	1			SPARE
BLANK					9				10					BLANK
BLANK					11				12	30/1	1			SUMP PUMP P–3 (1/3 HP) ***
BLANK					13			1310	14					BLANK
BLANK					15				16					BLANK
BLANK					17				18					BLANK
2240 VA – 3PH TOTAL CONNECTED						100	1230	1310						

0 VA – CONTINUOUS X 1.25 = 0 VA
0 VA – GP RECEPTS X (*) 0 VA
2240 VA – NON-CONTIN X 1.00 = 2240 VA
0 VA – LIGHTS THIS PANEL

2240 FEEDER TOTAL (VA)
6 AMPS @ 208V, 3 PH

(* 100% OF FIRST 10KW + 50% OF BALANCE)

*** PROVIDE LOCK-OUT TABS

PANEL 'L' SCHEDULE

LOAD SUMMARY @ 480V, 3PHASE AMPS

DESCRIPTION	FLA
BLOWER B–1 60HP	68
BLOWER B–2 1HP	1.6
PANEL 'L'	2
TOTAL CONNECTED LOAD	72
ADD 25% LARGEST MOTOR	17
TOTAL CALCULATED LOAD	89

DRAFT

ISSUE	DATE	REVISIONS	BY
2	10/01/04	REVISED 90% DRAFT	GKM
1	9/29/04	90% DRAFT	GKM
0	8/16/04	50% DRAFT	GKM

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

Haley & Aldrich, Inc.
9040 FRIARS ROAD, SUITE 220
SAN DIEGO, CA 92108
Tel: (619) 280–9210
Fax: (619) 280–9415

BOEING REALTY CORPORATION
FORMER C–6 FACILITY
LOS ANGELES, CALIFORNIA

ELECTRICAL ONE LINE & LOAD CALCULATION

Date: OCTOBER 2004
Scale: AS SHOWN
File No. 28882E01

Project Engineer: RMF
Designed By: BMW
Drawn By: GKM
Checked By: WCH
Sheet No.: 12 of 12
Drawing No. E–1
Issue 2

28882E01–AC

BOE-C6-0010200