

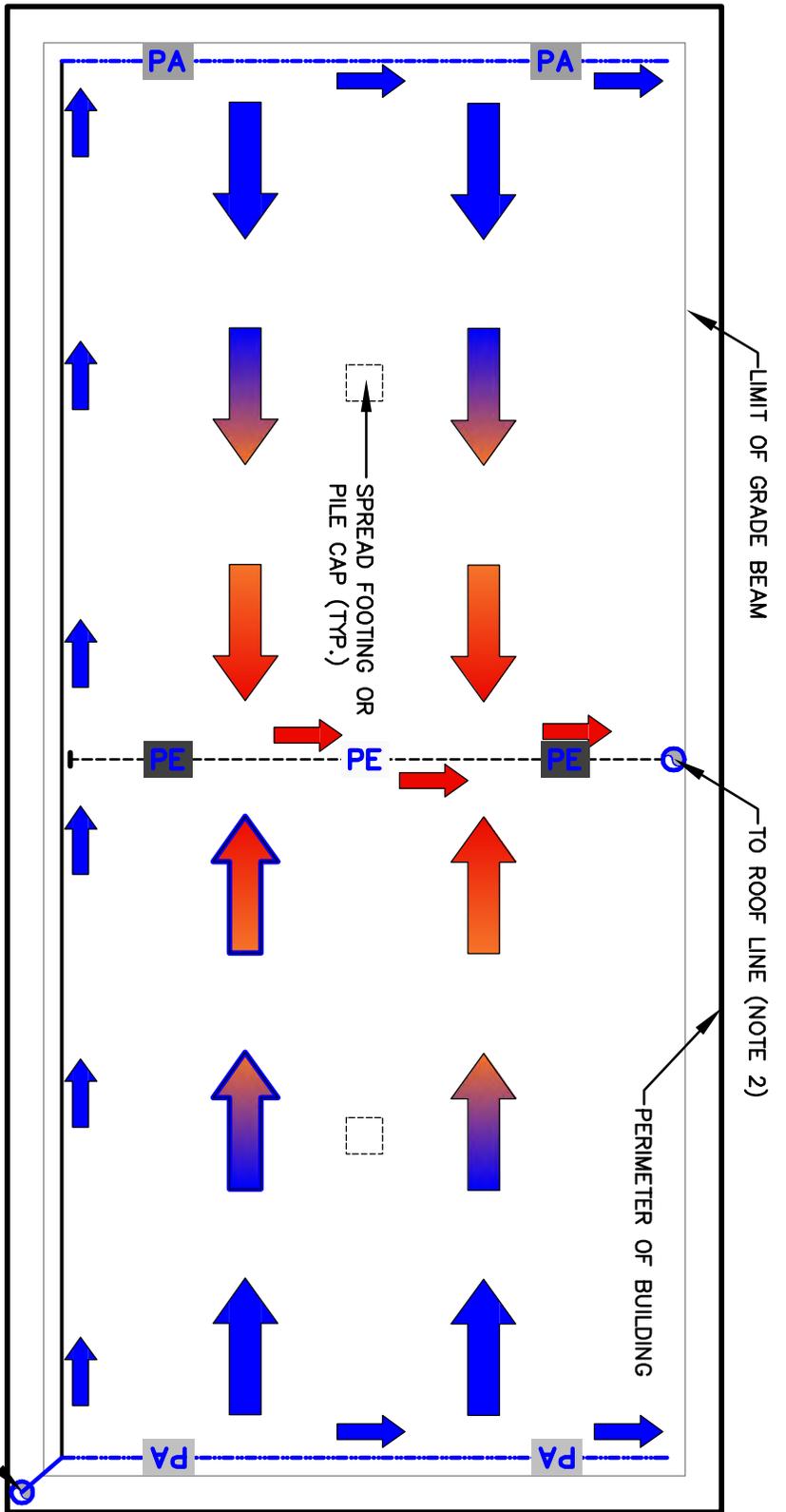
NOTE: \*AGGREGATE SHALL MEET THE REQUIREMENTS SPECIFIED IN ASTM C33 FOR #8 AGGREGATE UNLESS OTHERWISE NOTED



**GEOSYNTEC CONSULTANTS**

GAS BARRIER CONFIGURATION  
 SLOUGH ESTATES BRITANIA EAST GRAND  
 SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO.	3
PROJECT NO.	SC0347
DATE:	JUNE 2005



**NOTES:**

1. BUILDING LAYOUT AND FOUNDATION SYSTEM SHOWN FOR ILLUSTRATION PURPOSES ONLY, NOT BASED ON SPECIFIC PROJECT.
2. VERTICAL RISER PIPE TO BE CONTAINED WITHIN WALL, STAIRWELL, OR OTHER ARCHITECTURALLY ACCEPTABLE LOCATION, AND COMPRISED OF PIPE MATERIAL PER CODE. TOP OF VERTICAL PIPE SHALL BE LOCATED MINIMUM OF 10' FROM ANY HVAC SYSTEM OR BUILDING OPENING AND SHALL HAVE A WIND DRIVEN ROTARY TURBINE VENTILATOR ATTACHED.
3. AIR FLOW SHOWN FOR CONCEPT AND ILLUSTRATION PURPOSES ONLY.

**LEGEND**

PERFORATED AIR INLET PIPE

PERFORATED VAPOR EXTRACTION PIPE

SOLID WALL AIR INLET HEADER PIPE

AIR FLOW

COLLECTED VAPOR FLOW



**GeoSyntec Consultants**

METHANE MITIGATION SYSTEM CONCEPTUAL PIPE LAYOUT

SLOUGH ESTATES

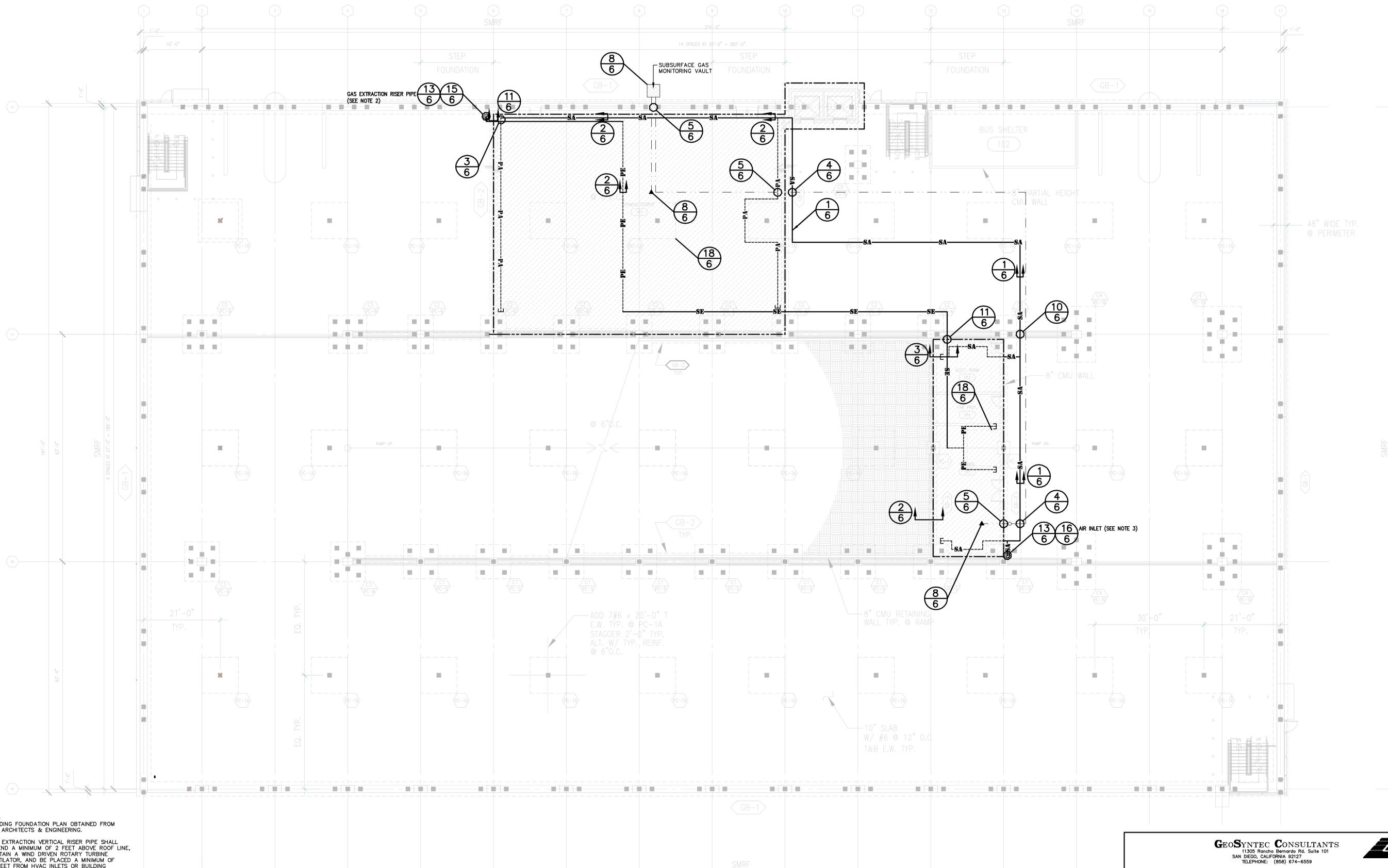
BRITANIA EAST GRAND

SOUTH SAN FRANCISCO, CALIFORNIA

FIGURE NO. 4

PROJECT NO. SC0347

DATE: NOVEMBER 2005



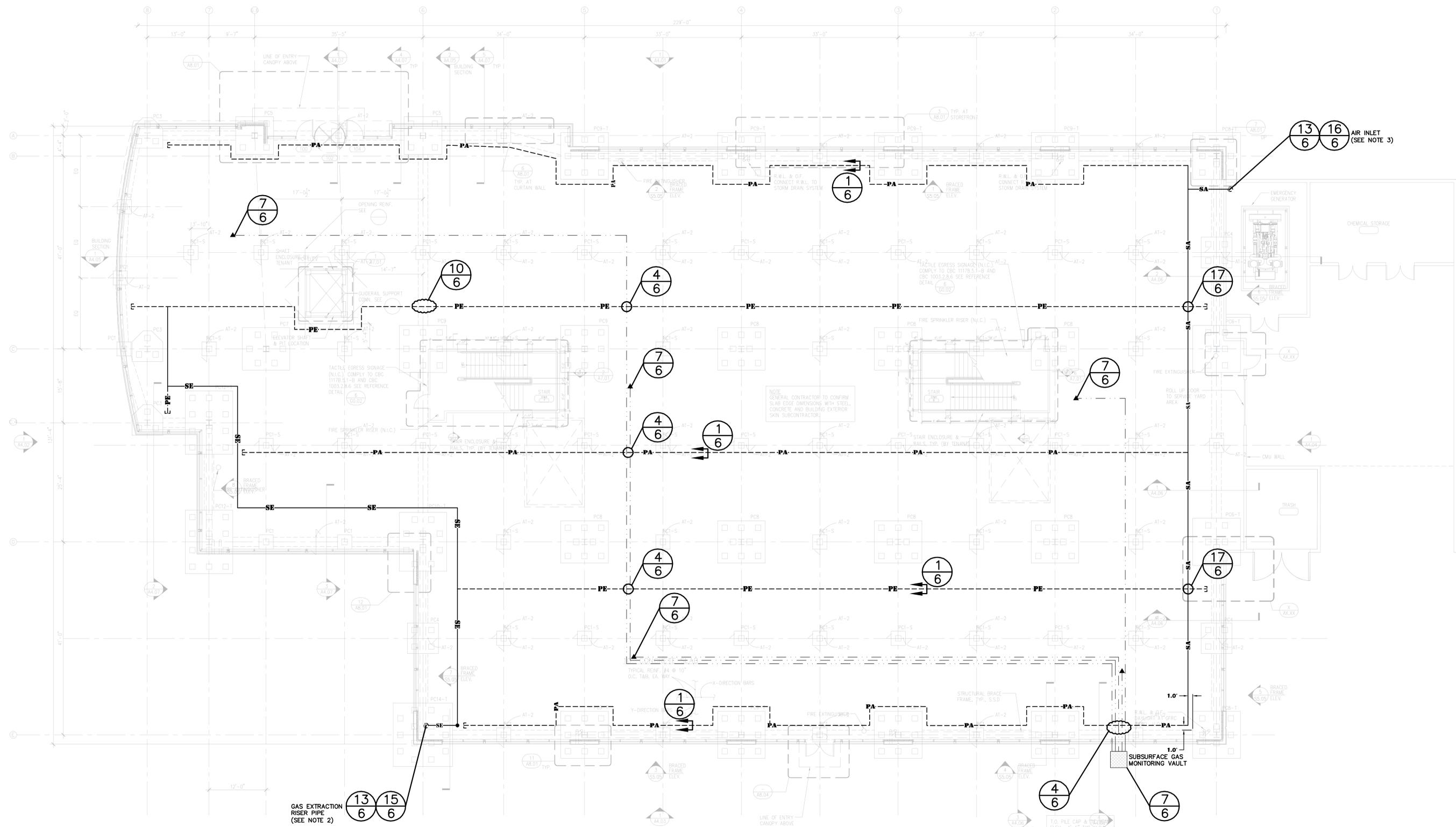
- NOTES:**
- BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
  - GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 2 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
  - AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
  - UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON DETAIL 19 SHEET 6.
  - A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING (I.E. AREAS WITH GEOMEMBRANE GAS BARRIER) AS SHOWN ON DETAIL 9 SHEET 6.

**LEGEND**

PA --- PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC	PE --- PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC	SA --- SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC	SE --- SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
--- GAS MONITORING PIPE 1/2" DIA. SCH80 PVC	▲ SUBSURFACE GAS MONITORING POINT	--- LIMITS OF GEOMEMBRANE GAS BARRIER	(8/6) --- DETAIL NUMBER --- SHEET WHERE DETAIL SHOWN



<b>GeoSYNTEC CONSULTANTS</b> 11305 Rancho Bernardo Rd., Suite 101 SAN DIEGO, CALIFORNIA 92127 TELEPHONE: (858) 674-6599	
PROJECT: BRITANNIA EAST GRAND-PHASE II SOUTH SAN FRANCISCO, CALIFORNIA	
TITLE: <b>PARKING STRUCTURE B          GAS MONITORING SYSTEM LAYOUT PLAN</b>	
DATE: DECEMBER 2005	SCALE: AS SHOWN
DESIGN BY: S.F.	JOB NO.: SC0347-01
DRAWN BY: T.L.Z.	FILE NO.:
CHECKED BY: G.T.C.	DOCUMENT NO.:
REVIEWED BY: G.T.C.	DRAWING NO.:
APPROVED BY: (P/NO/PA)	1 OF 6



1 FIRST FLOOR & SLAB REINF. PLAN

- NOTES:
- BUILDING FOUNDATION PLAN OBTAINED FROM DES ARCHITECTS & ENGINEERING.
  - GAS EXTRACTION VERTICAL RISER PIPE SHALL EXTEND A MINIMUM OF 2 FEET ABOVE ROOF LINE, CONTAIN A WIND DRIVEN ROTARY TURBINE VENTILATOR, AND BE PLACED A MINIMUM OF 10 FEET FROM HVAC INLETS OR BUILDING OPENINGS.
  - AIR INLET VERTICAL RISER SHALL BE INSTALLED A MINIMUM OF 10 FEET ABOVE GRADE OR HVAC INLETS AND OPENINGS.
  - UTILITIES WHICH PENETRATE THE BUILDING SLAB SHOULD BE CONSTRUCTED AS SHOWN ON DETAIL 19 SHEET 6.
  - A SUBSURFACE TRENCH CUT OFF SHOULD BE CONSTRUCTED FOR UTILITIES ENTERING THE ENCLOSED PORTIONS OF THE BUILDING AS SHOWN ON DETAIL 9 SHEET 6.

**LEGEND**

PA	PERFORATED AIR INLET PIPE 2" DIA. SCH40 PVC	PE	PERFORATED GAS EXTRACTION PIPE 2" DIA. SCH40 PVC	SA	SOLID WALL AIR INLET PIPE 2" DIA. SCH40 PVC	SE	SOLID WALL GAS EXTRACTION PIPE 2" DIA. SCH40 PVC
---	GAS MONITORING PIPE 1/2" DIA SCH80 PVC	▲	SUBSURFACE GAS MONITORING POINT	8/6	DETAIL NUMBER	6/6	SHEET WHERE DETAIL SHOWN



<b>GeoSYNTEC CONSULTANTS</b> 11305 Ramona Boulevard, Suite 101 SAN DIEGO, CALIFORNIA 92127 TELEPHONE: (858) 674-6559			
PROJECT: BRITANNIA EAST GRAND-PHASE II SOUTH SAN FRANCISCO, CALIFORNIA		TITLE: BUILDING 2 GAS MONITORING SYSTEM LAYOUT PLAN	
DATE: DECEMBER 2005	SCALE: AS SHOWN	DESIGN BY: S.F.	JOB NO.: SC0347-01
DRAWN BY: T.L.Z.	FILE NO.:	CHECKED BY: G.T.C.	DOCUMENT NO.:
REVIEWED BY: G.T.C.	DRAWING NO.:	APPROVED BY: (P&C/PAL)	2 OF 6