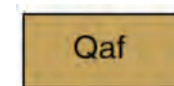
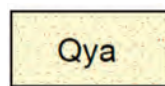


EXPLANATION:



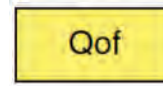
Artificial fill (Holocene):

Mostly silty sand, clayey sand and sandy silt placed in previous grading operations.



Young Alluvium (Holocene):

Unconsolidated alluvium consisting of fine to coarse grained sand and lesser gravel and silt.



Old Alluvium (Pleistocene):

Slightly indurated, sandy alluvial fan deposits associated with the Santa Ana River system.

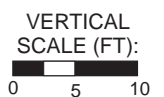
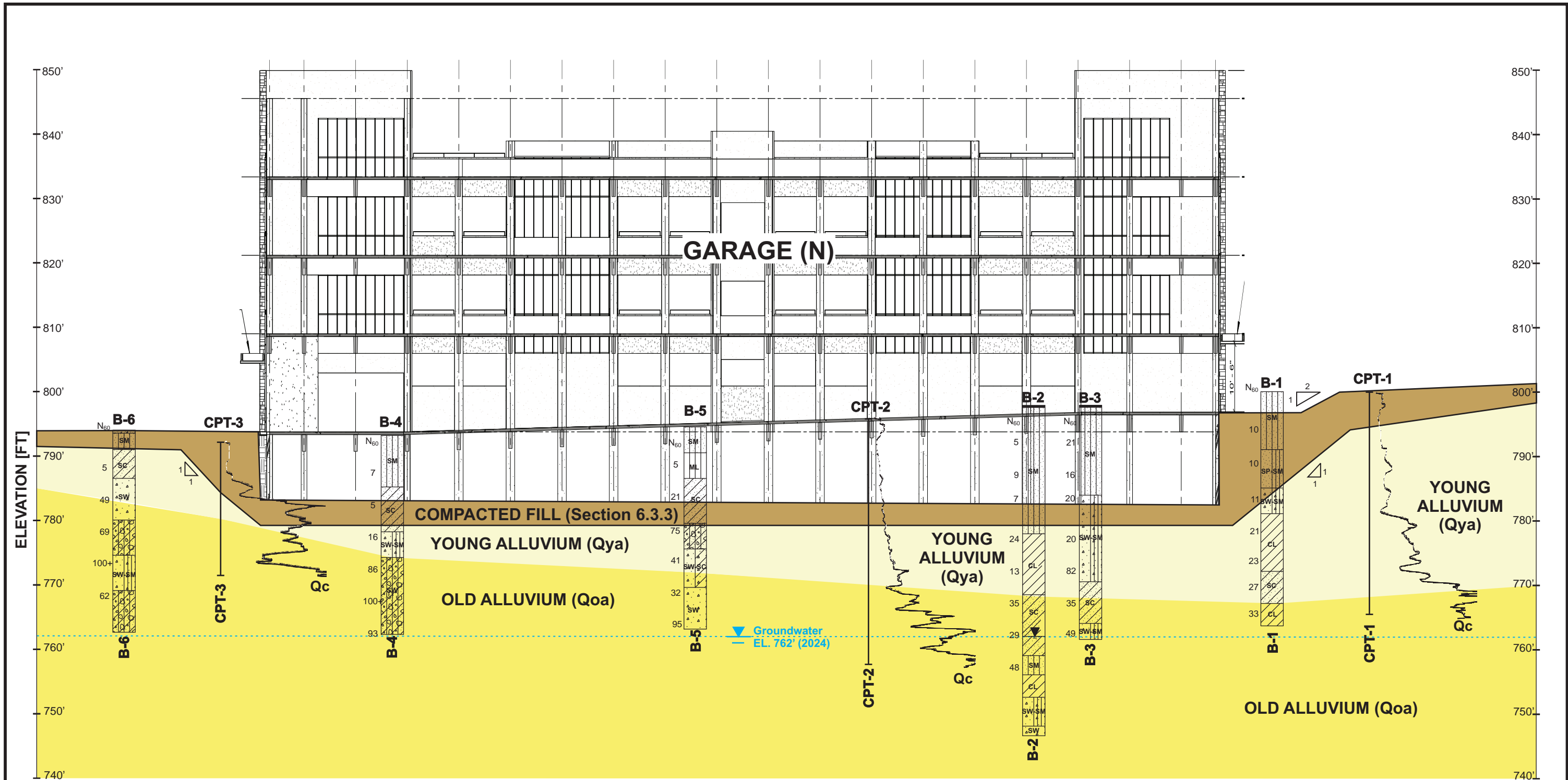


GROUP DELTA CONSULTANTS, INC.
 ENGINEERS AND GEOLOGISTS
 9245 ACTIVITY ROAD, SUITE 103
 SAN DIEGO, CA 92126 (858) 536-1000
 PROJECT NAME
 Riverside Community Hospital
 HCA Design and Construction

PROJECT NUMBER
 SD809
 DOCUMENT NUMBER
 24-0011
 FIGURE NUMBER
 4A

LOCAL GEOLOGIC MAP

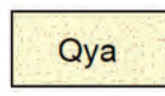
REFERENCE: Morton and Cox (2002). *Geologic Map of the Riverside West 7.5' Quadrant, Riverside, California.*



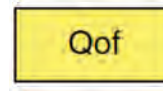
EXPLANATION:



Artificial fill (Holocene):
Mostly silty sand, clayey sand and sandy silt placed in previous grading operations.

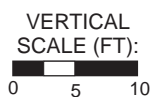
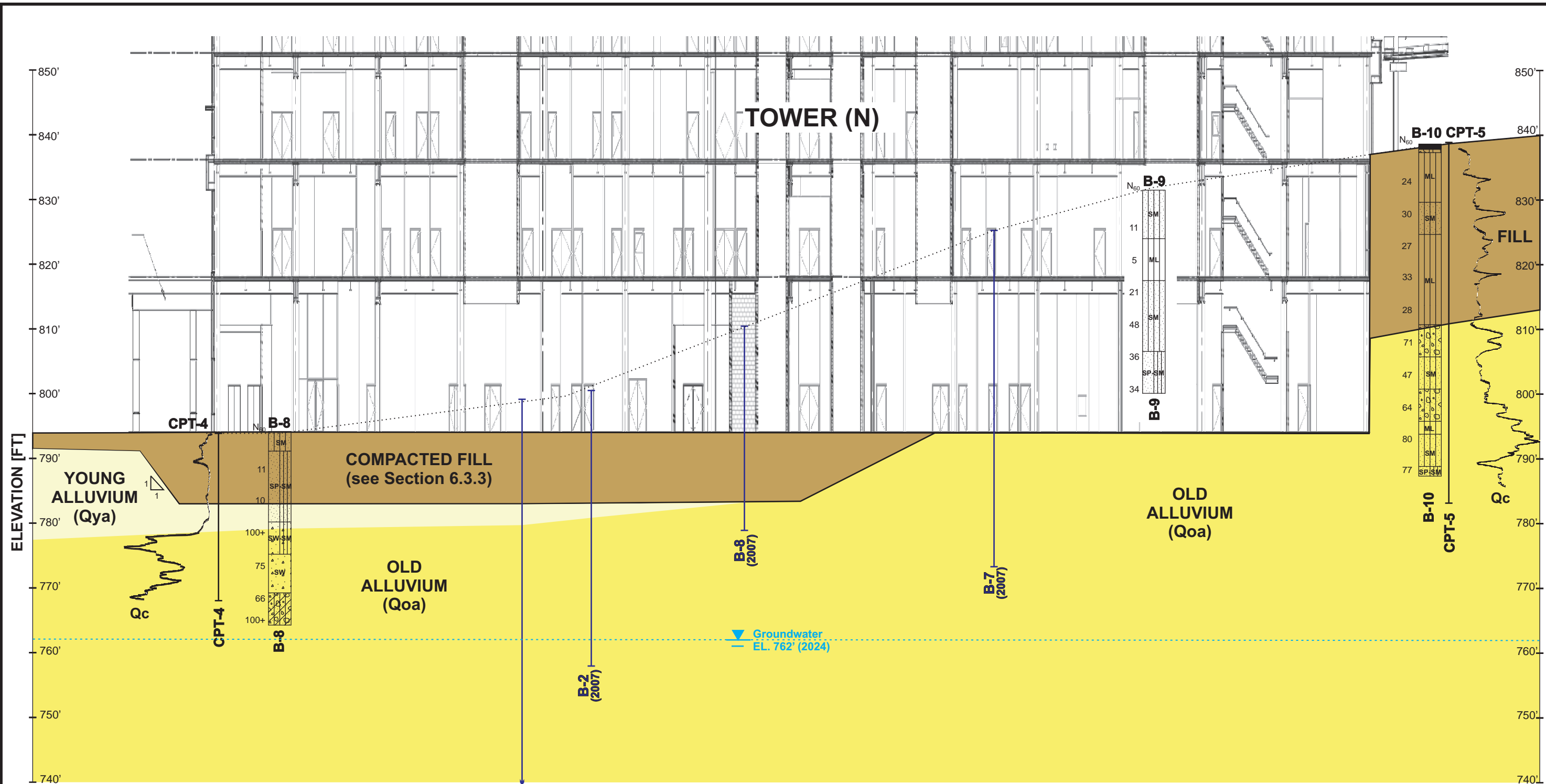


Young Alluvium (Holocene):
Unconsolidated alluvium consisting of fine to coarse grained sand and lesser gravel and silt.



Old Alluvium (Pleistocene):
Slightly indurated, sandy alluvial fan deposits associated with the Santa Ana River system.

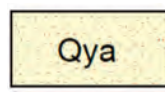
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 4B	
CROSS SECTION A-A' (GARAGE SITE)		



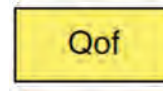
EXPLANATION:



Artificial fill (Holocene):
 Mostly silty sand, clayey sand and sandy silt placed in previous grading operations.



Young Alluvium (Holocene):
 Unconsolidated alluvium consisting of fine to coarse grained sand and lesser gravel and silt.



Old Alluvium (Pleistocene):
 Slightly indurated, sandy alluvial fan deposits associated with the Santa Ana River system.

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 4C	
CROSS SECTION B-B' (TOWER SITE)		

HISTORICAL SEISMICITY



>M6 EQ



>M6-M5



>M5-M4

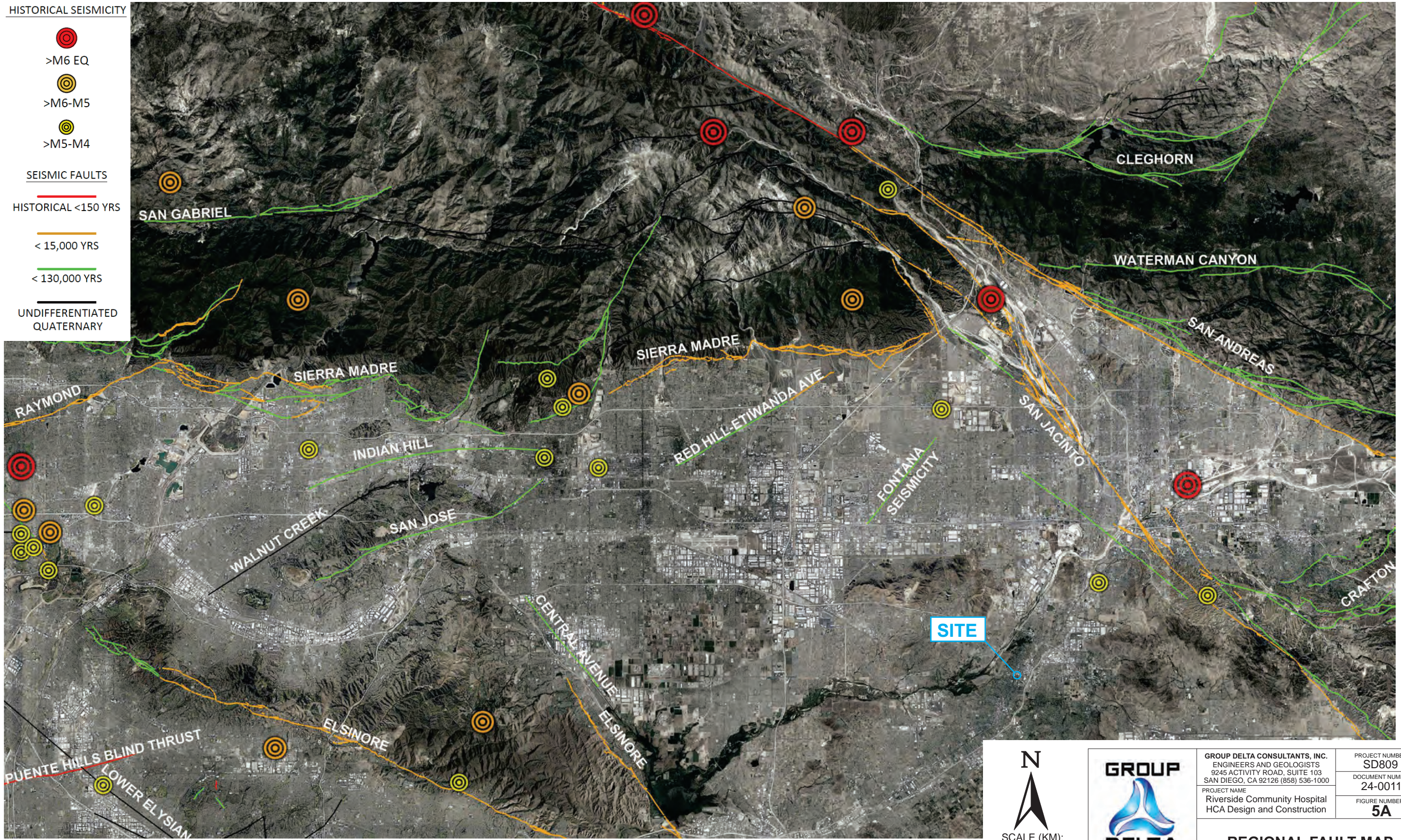
SEISMIC FAULTS

HISTORICAL <150 YRS

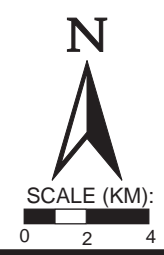
< 15,000 YRS

< 130,000 YRS

UNDIFFERENTIATED QUATERNARY



REFERENCE: Google Earth (2022). USGS Quaternary Fault and Fold Database, Imagery Date: May 30.



GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000

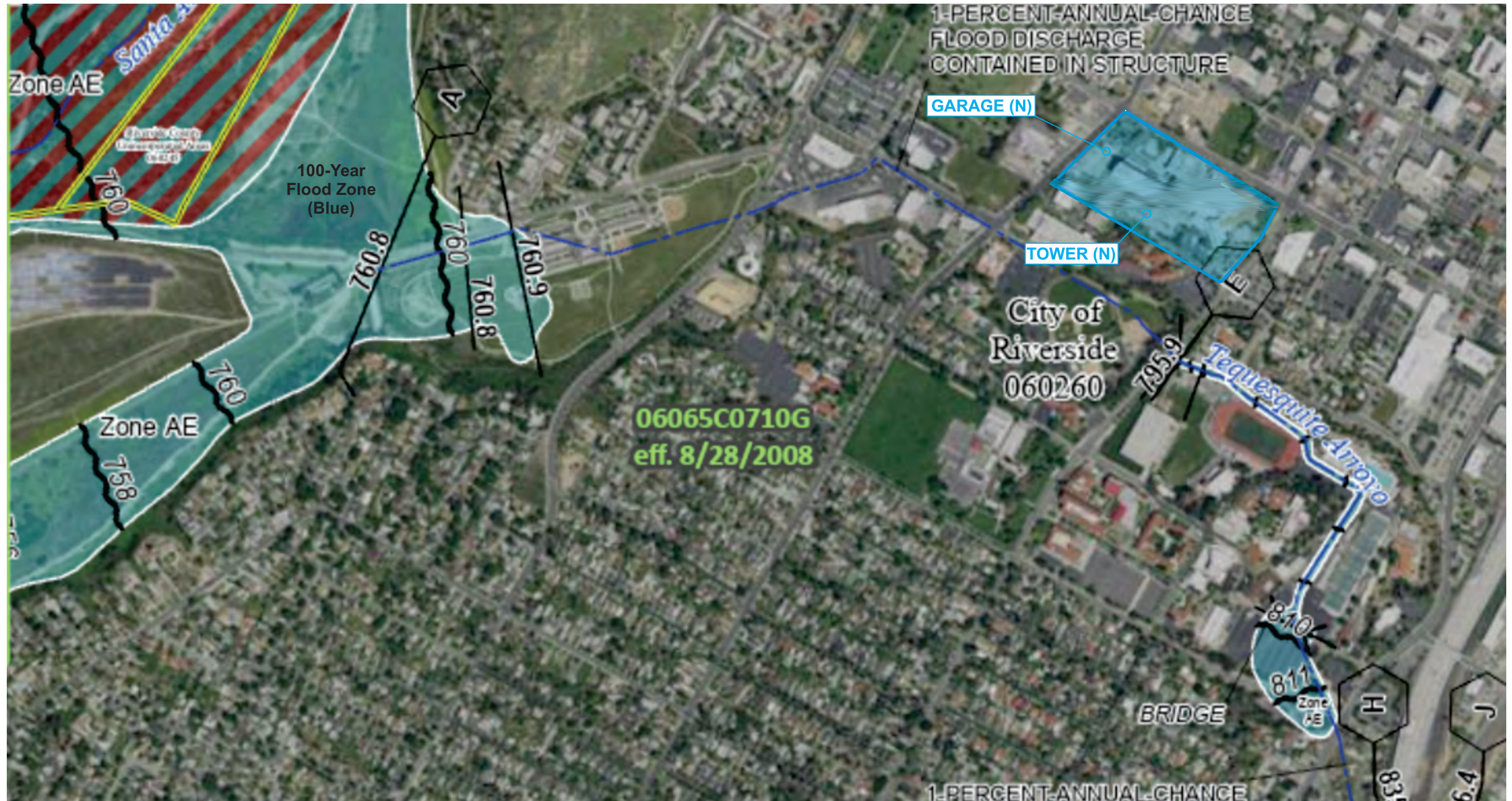
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

PROJECT NUMBER
SD809


DOCUMENT NUMBER
24-0011


FIGURE NUMBER
5A

REGIONAL FAULT MAP



EXPLANATION:

 **FEMA 100-Year Flood Zone AE:**
The approximate limits of the FEMA 100-year flood within the Tequesquito Arroyo are shown in blue.

 **FEMA 100-Year Flood Elevations:**
The approximate elevations of the 100-year flood within the Tequesquito Arroyo is also shown [MSL].

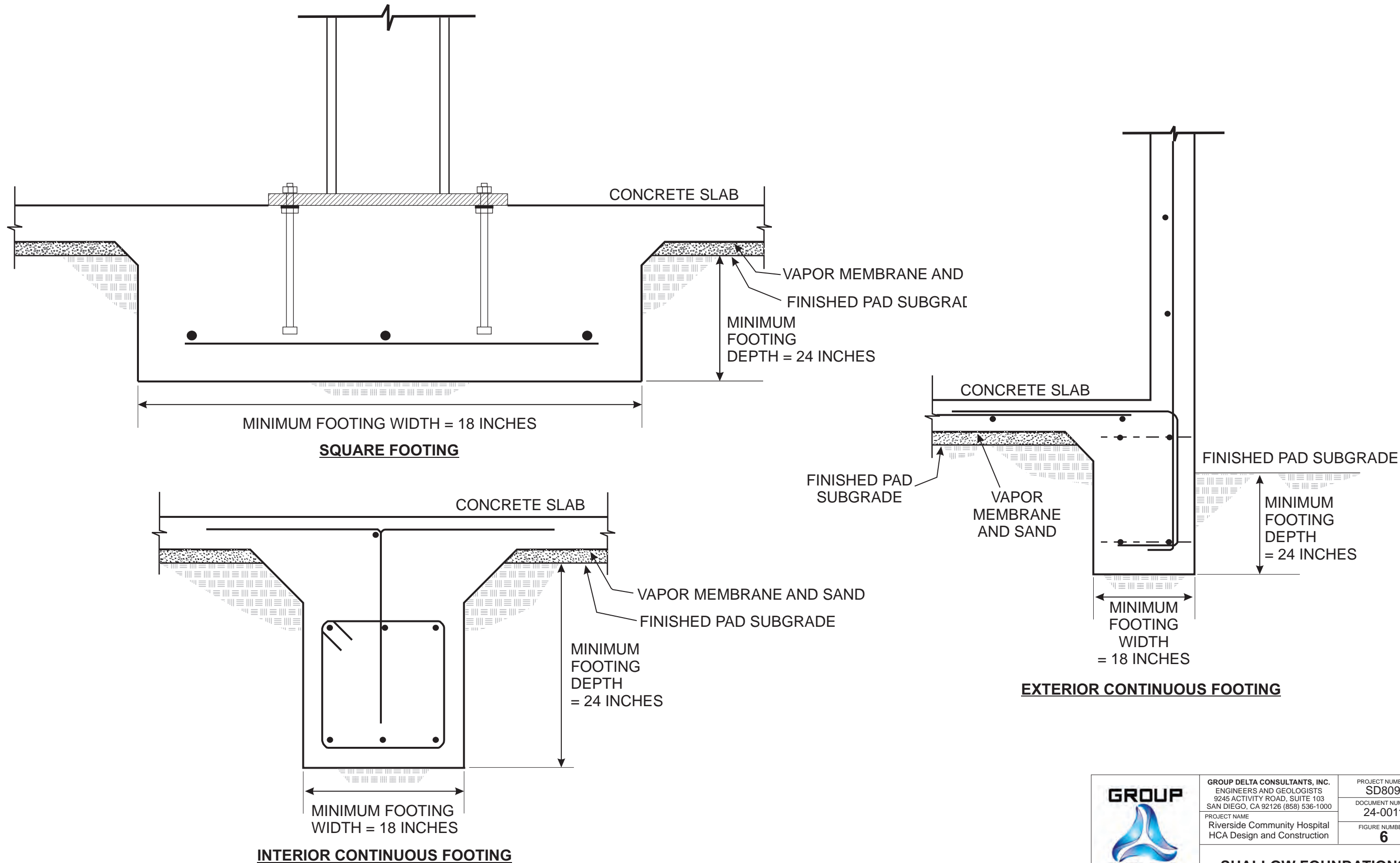
Reference: FEMA (2021). *FEMA's National Flood Hazard Layer (NFHL) Viewer*, Map 06065C0710G, <https://hazards-fema.maps.arcgis.com/apps/webappviewer>.



GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

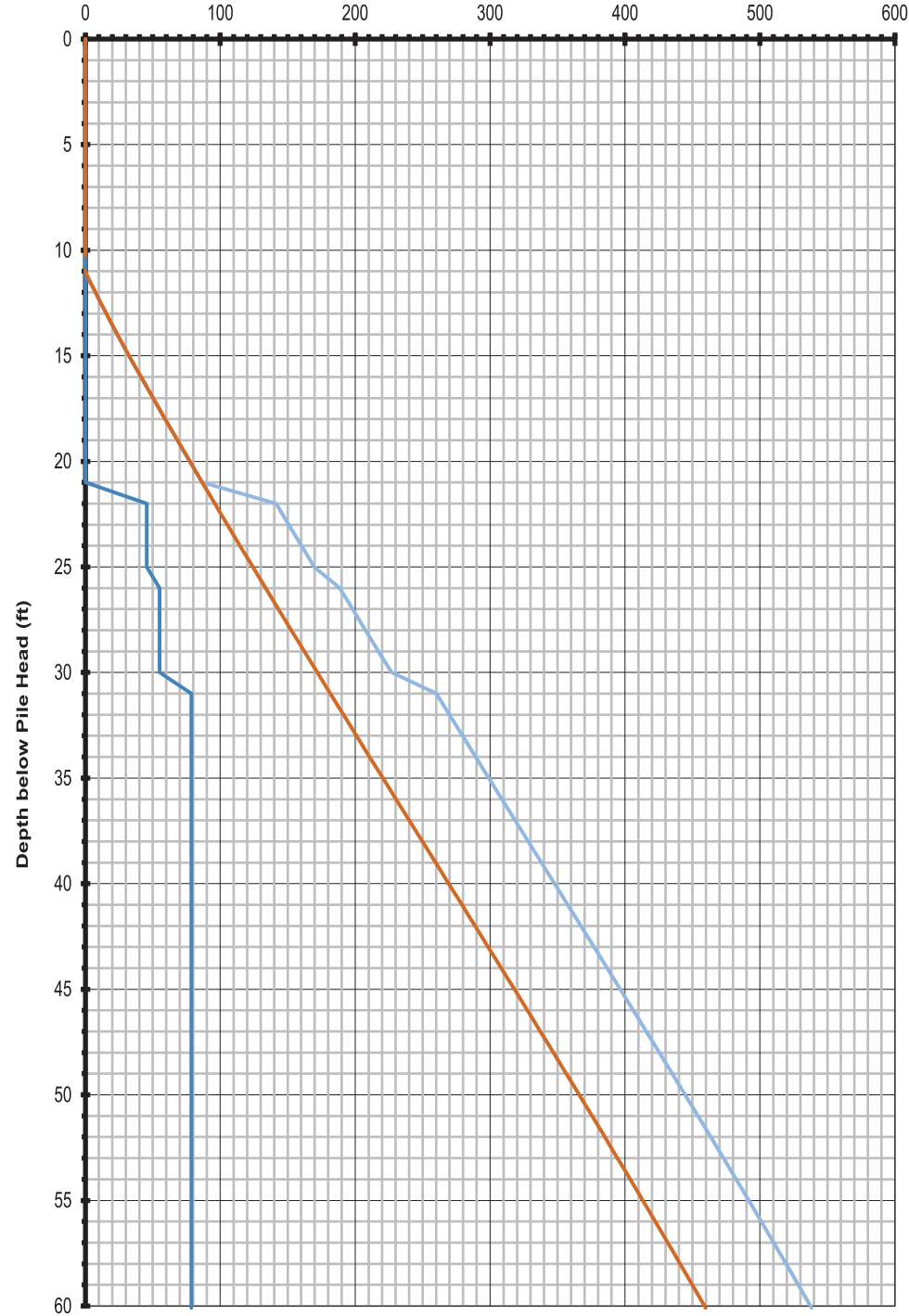
PROJECT NUMBER
SD809
DOCUMENT NUMBER
24-0011
FIGURE NUMBER
5B

FEMA FLOOD MAP

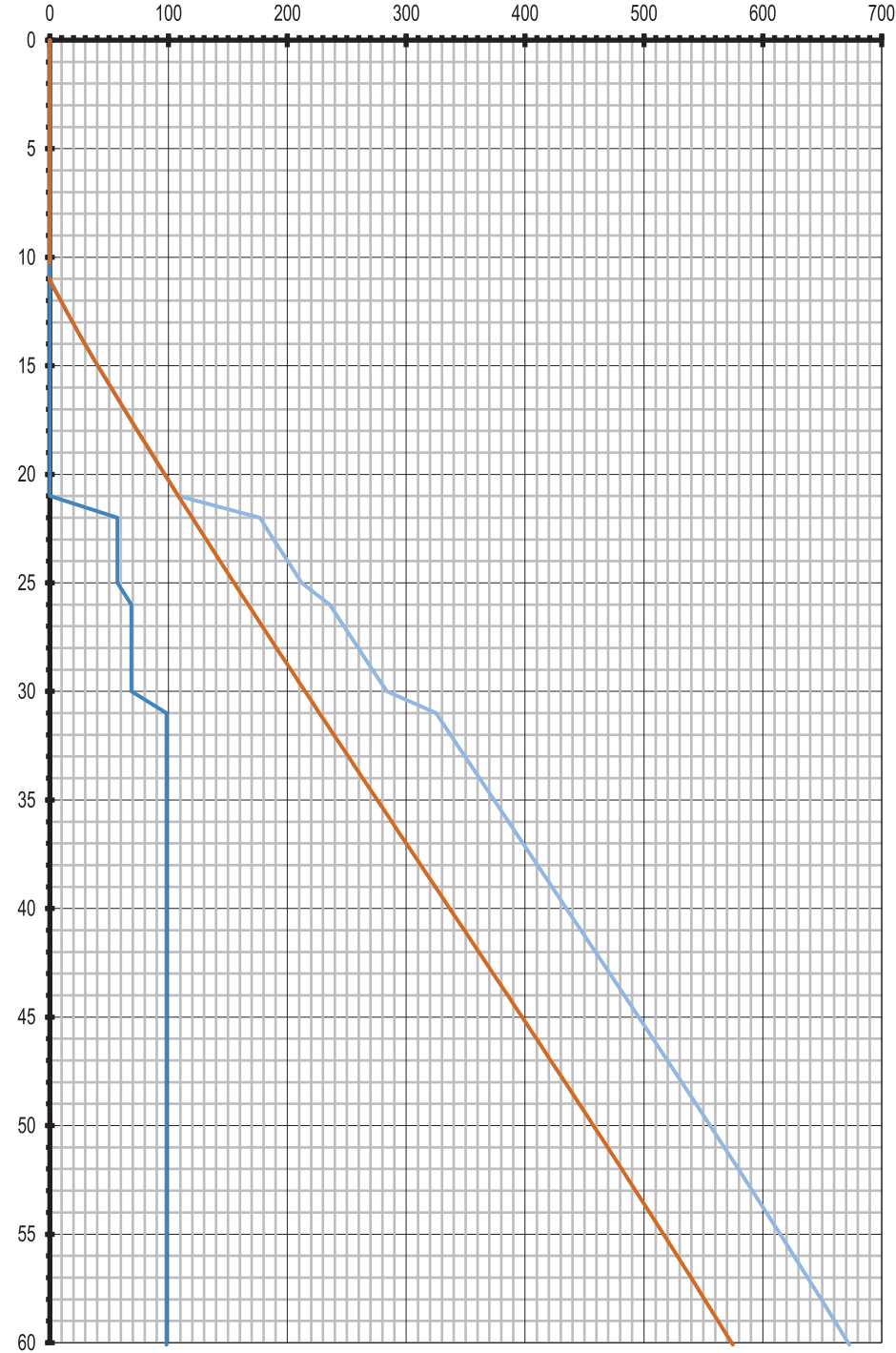


	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 6	
SHALLOW FOUNDATIONS		

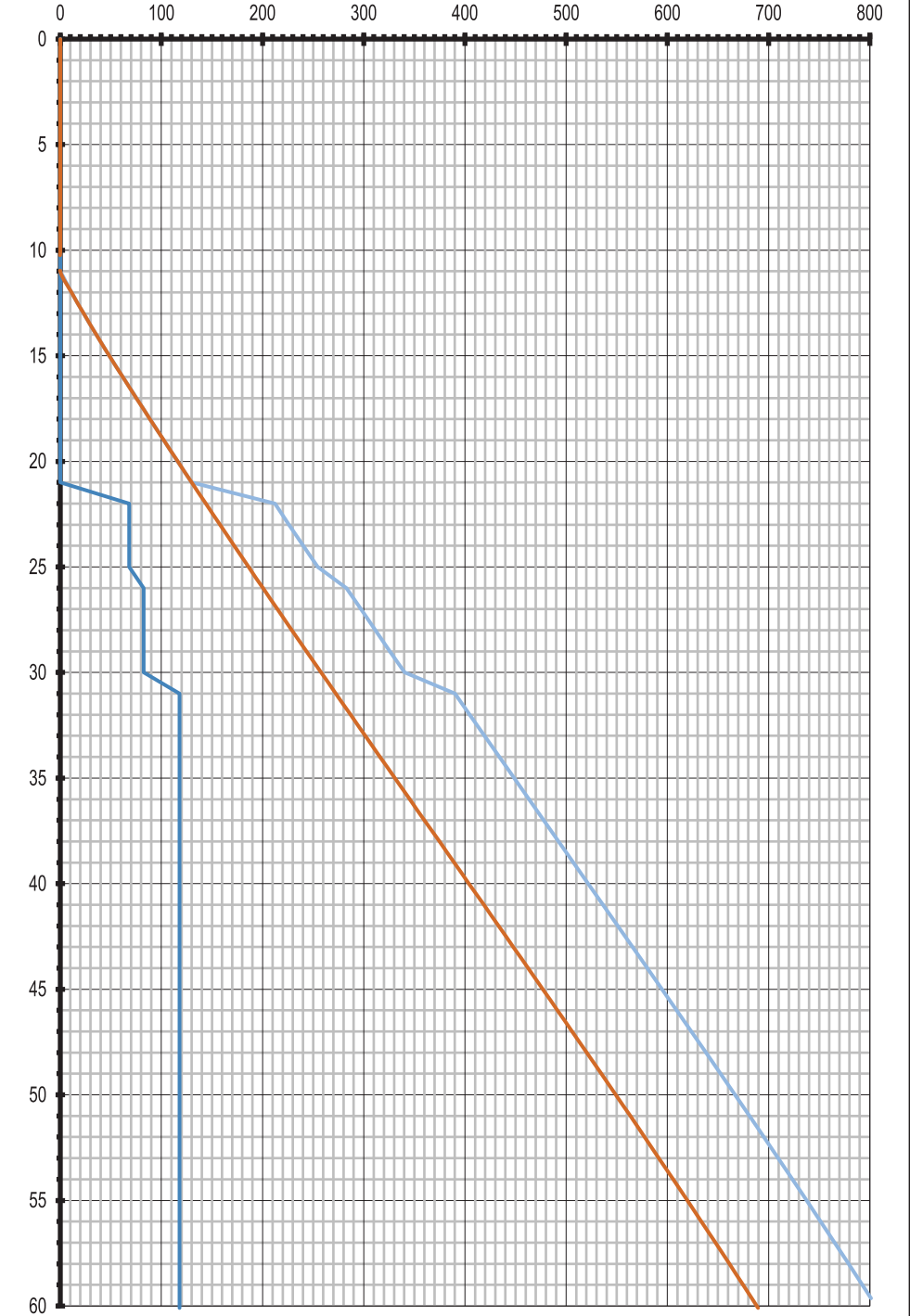
**FACTORED CAPACITY [KIPS]
(24-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(30-INCH DIAMETER PILE)**

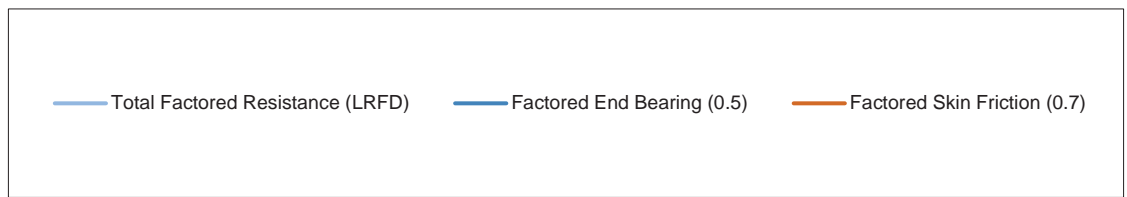


**FACTORED CAPACITY [KIPS]
(36-INCH DIAMETER PILE)**



NOTES:

- 1) CIDH pile excavations will need stabilization using drilling slurry and casing.
- 2) All piles should be embedded at least 10-feet into dense Old Alluvium.

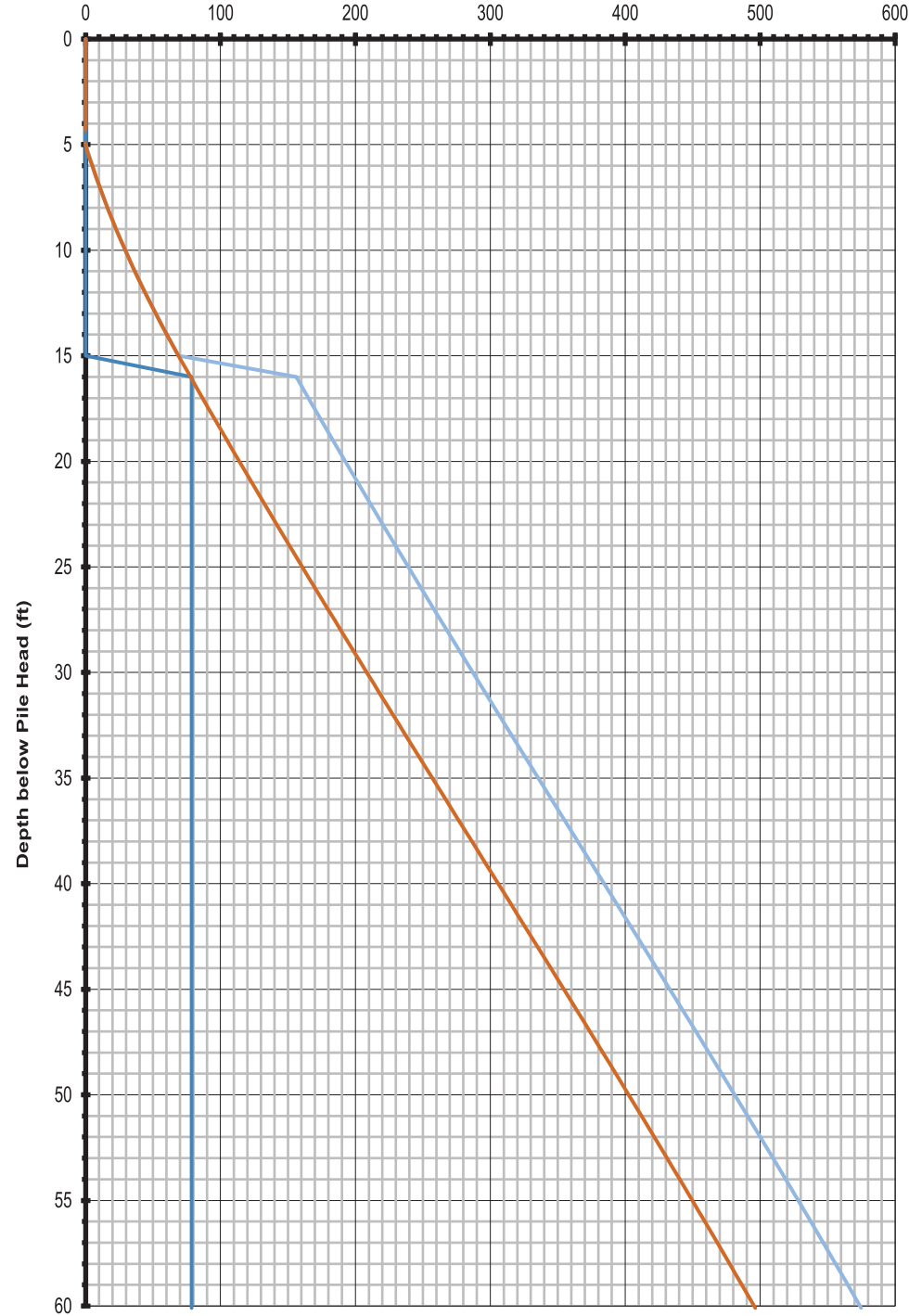


GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

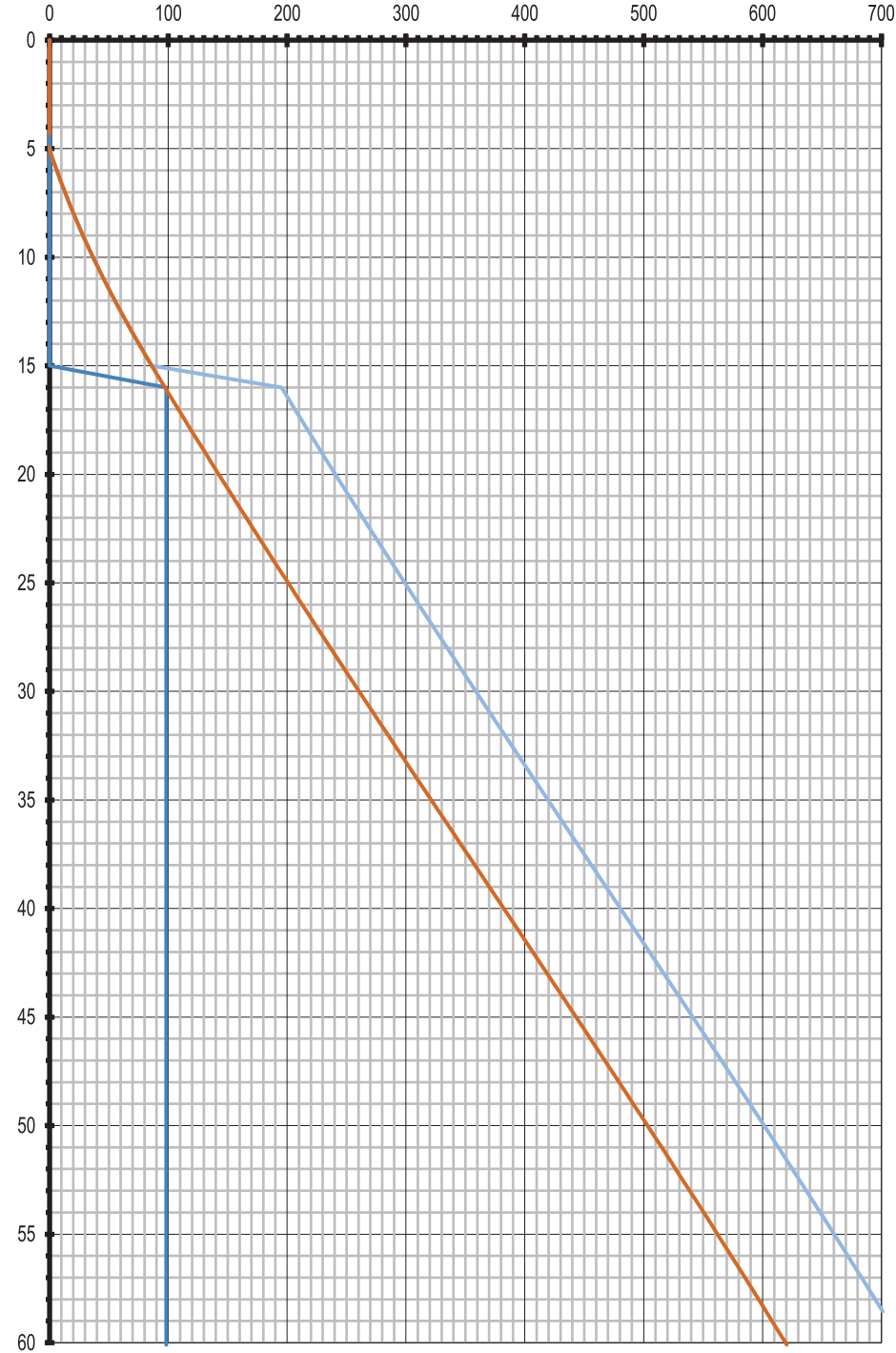
PROJECT NUMBER
SD809
DOCUMENT NUMBER
24-0011
FIGURE NUMBER
7A

**AXIAL PILE CAPACITY
(GARAGE SITE - NORTH)**

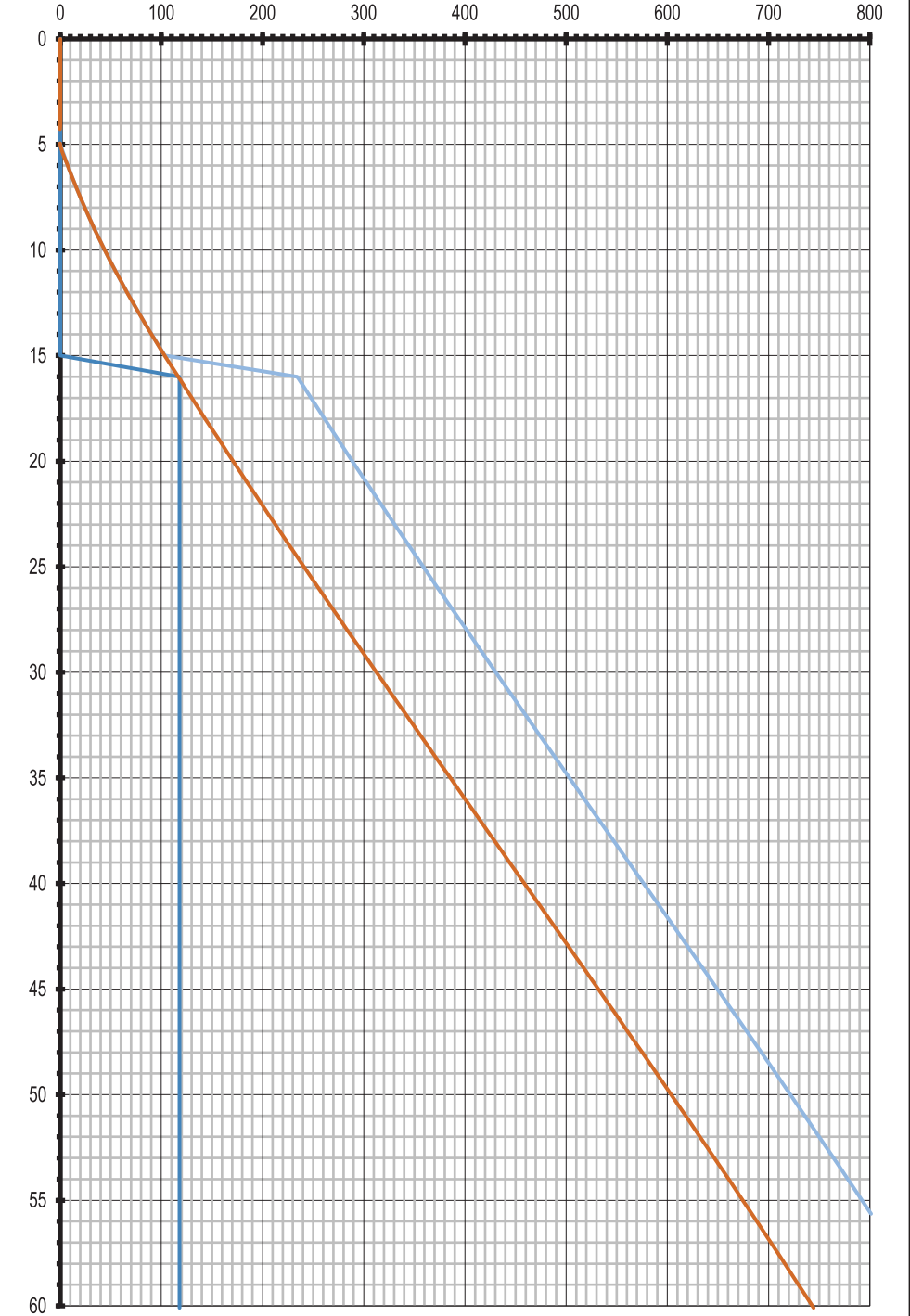
**FACTORED CAPACITY [KIPS]
(24-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(30-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(36-INCH DIAMETER PILE)**



NOTES:

- 1) CIDH pile excavations will need stabilization using drilling slurry and casing.
- 2) All piles should be embedded at least 10-feet into dense Old Alluvium.

— Total Factored Resistance (LRFD) — Factored End Bearing (0.5) — Factored Skin Friction (0.7)

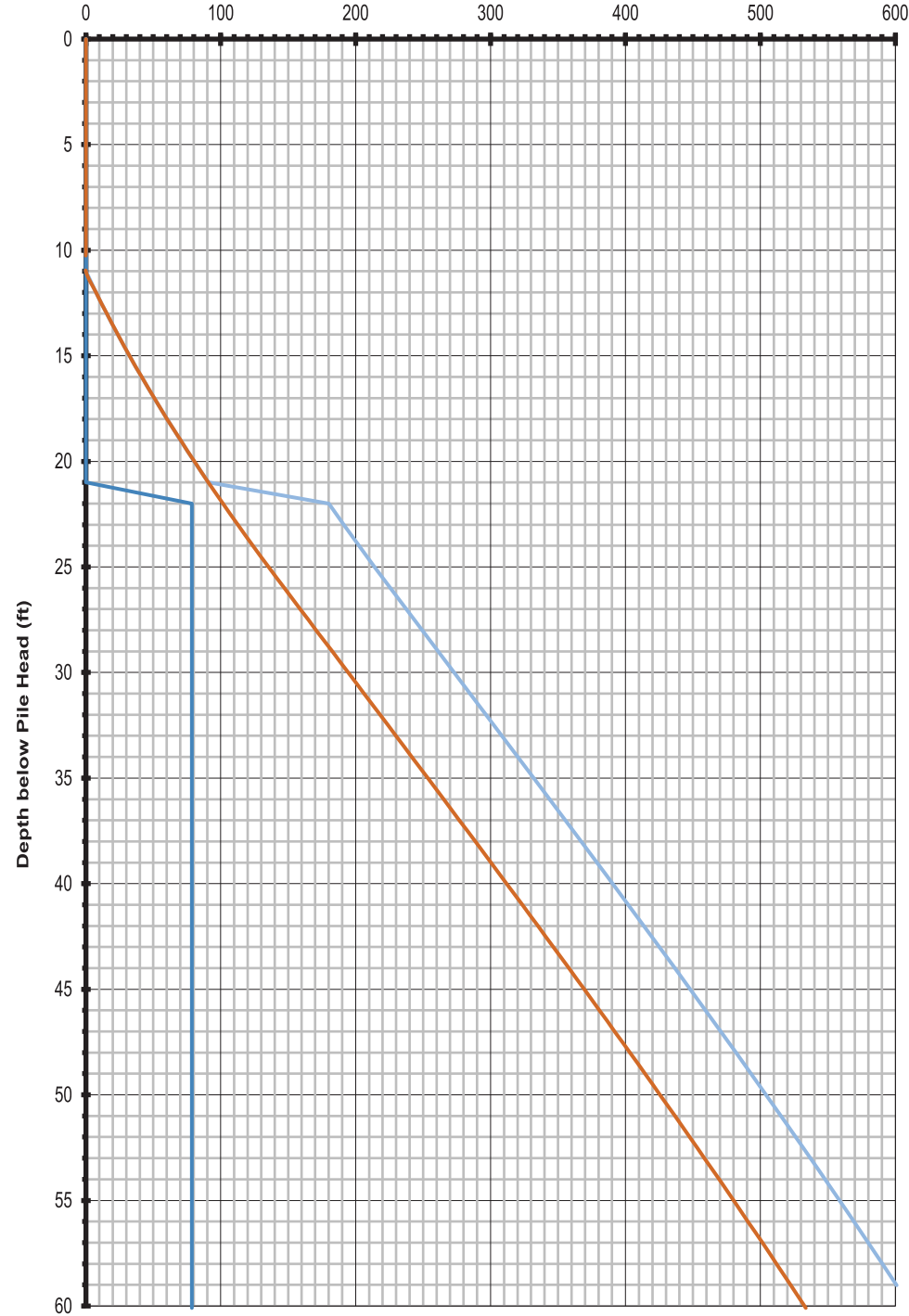


GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

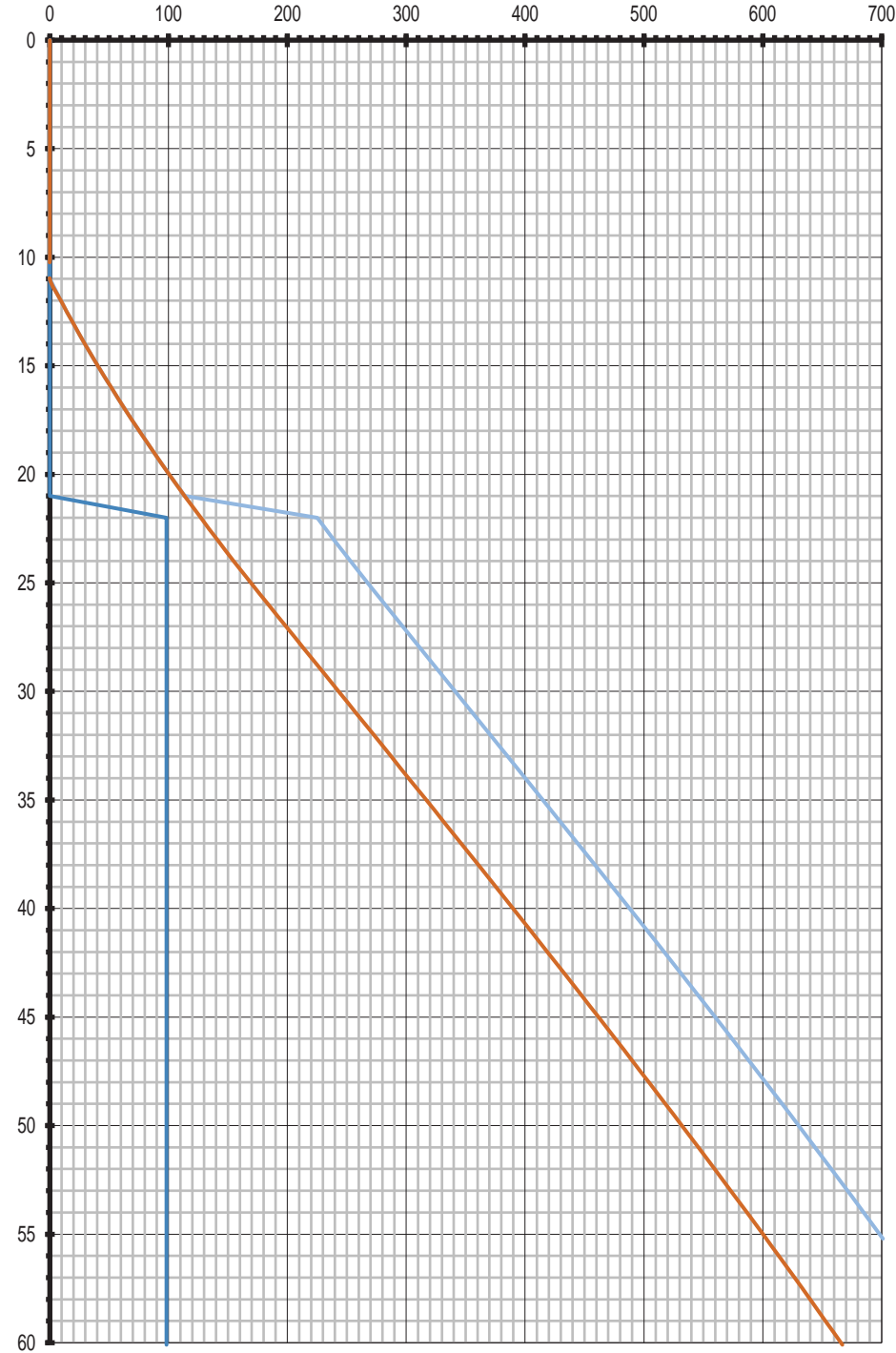
PROJECT NUMBER
SD809
DOCUMENT NUMBER
24-0011
FIGURE NUMBER
7B

**AXIAL PILE CAPACITY
(GARAGE SITE - SOUTH)**

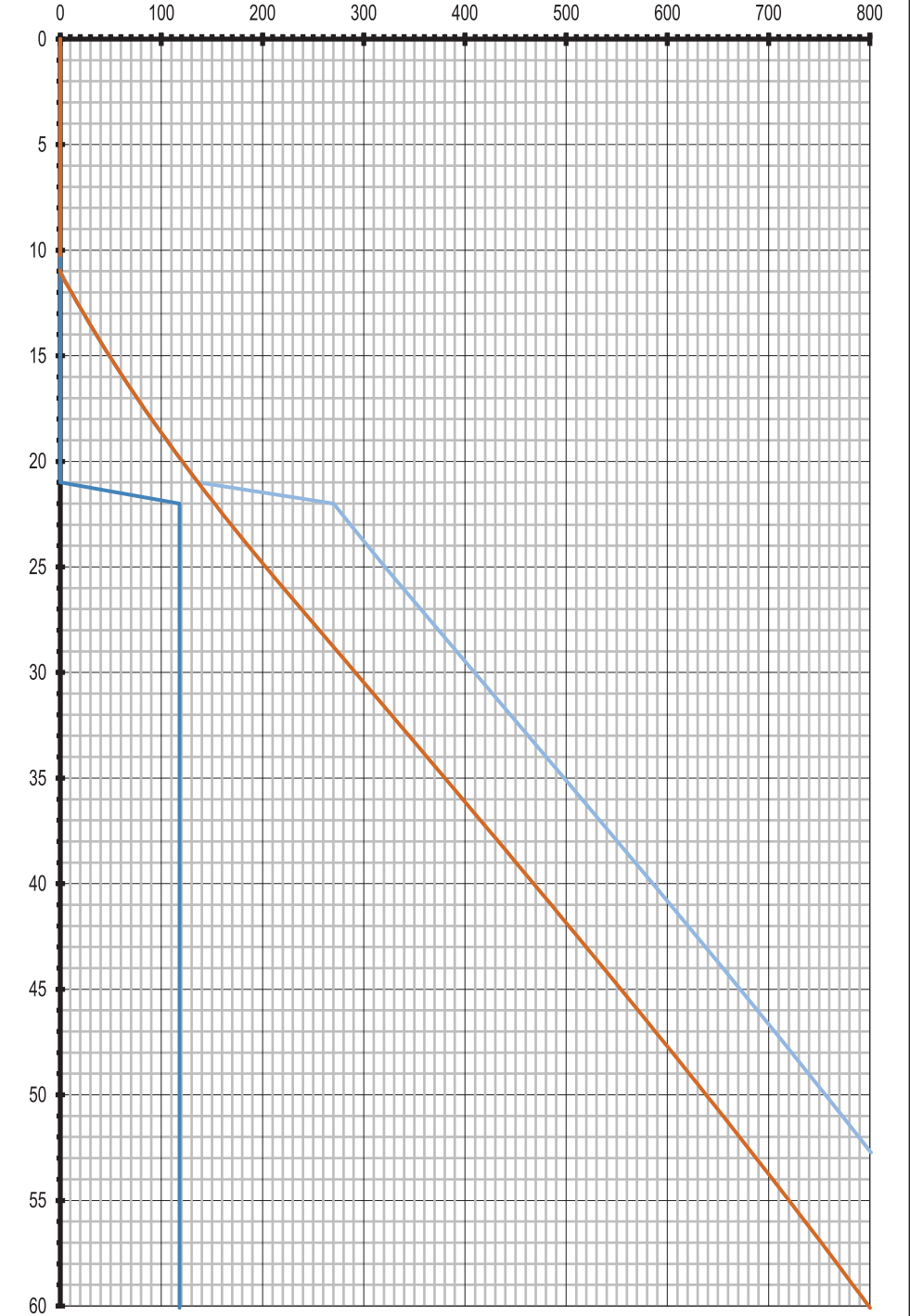
**FACTORED CAPACITY [KIPS]
(24-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(30-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(36-INCH DIAMETER PILE)**



NOTES:

- 1) CIDH pile excavations will need stabilization using drilling slurry and casing.
- 2) All piles should be embedded at least 10-feet into dense Old Alluvium.

— Total Factored Resistance (LRFD) — Factored End Bearing (0.5) — Factored Skin Friction (0.7)

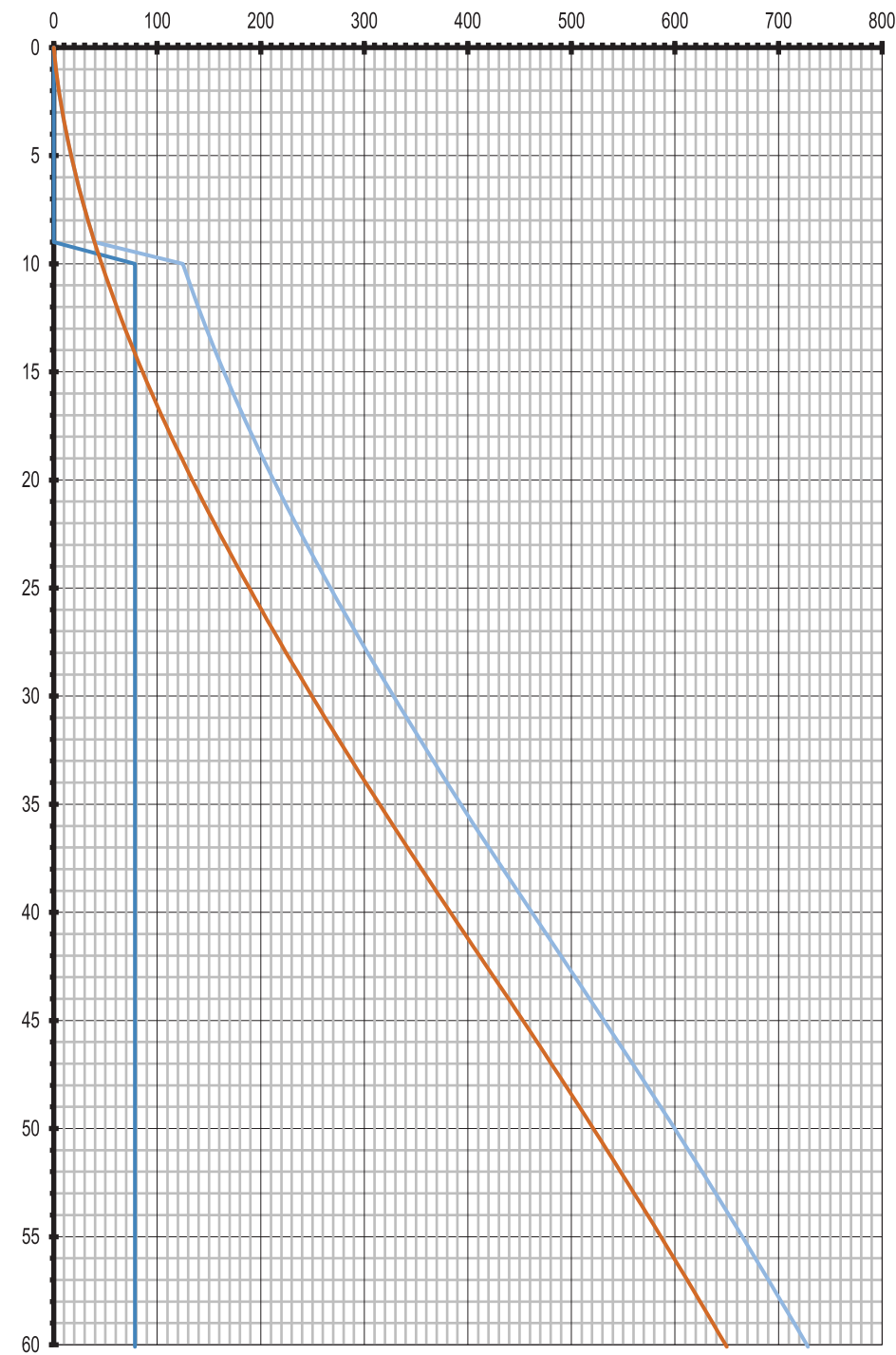


GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

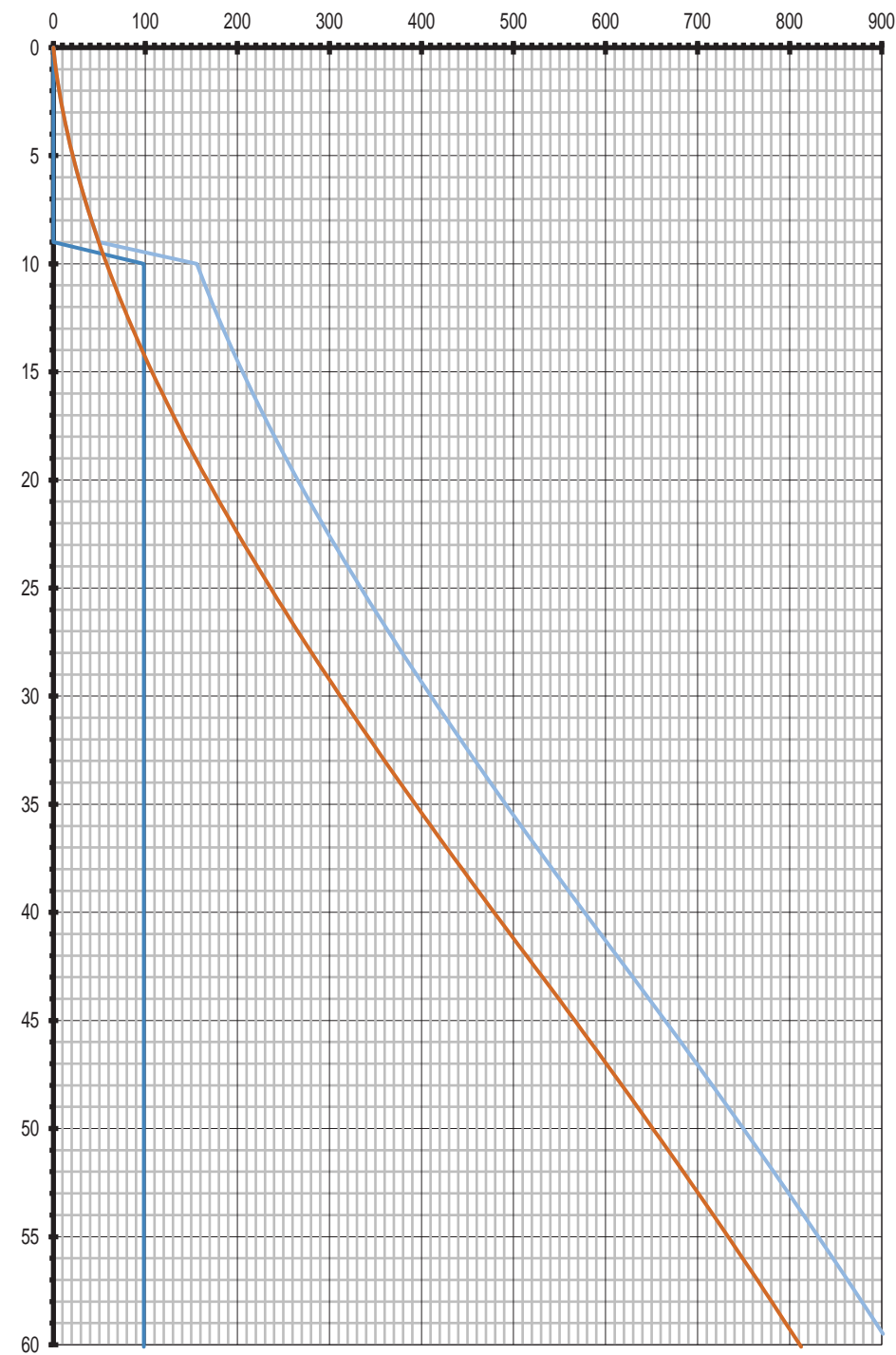
PROJECT NUMBER
SD809
DOCUMENT NUMBER
24-0011
FIGURE NUMBER
7C

**AXIAL PILE CAPACITY
(TOWER SITE - WEST)**

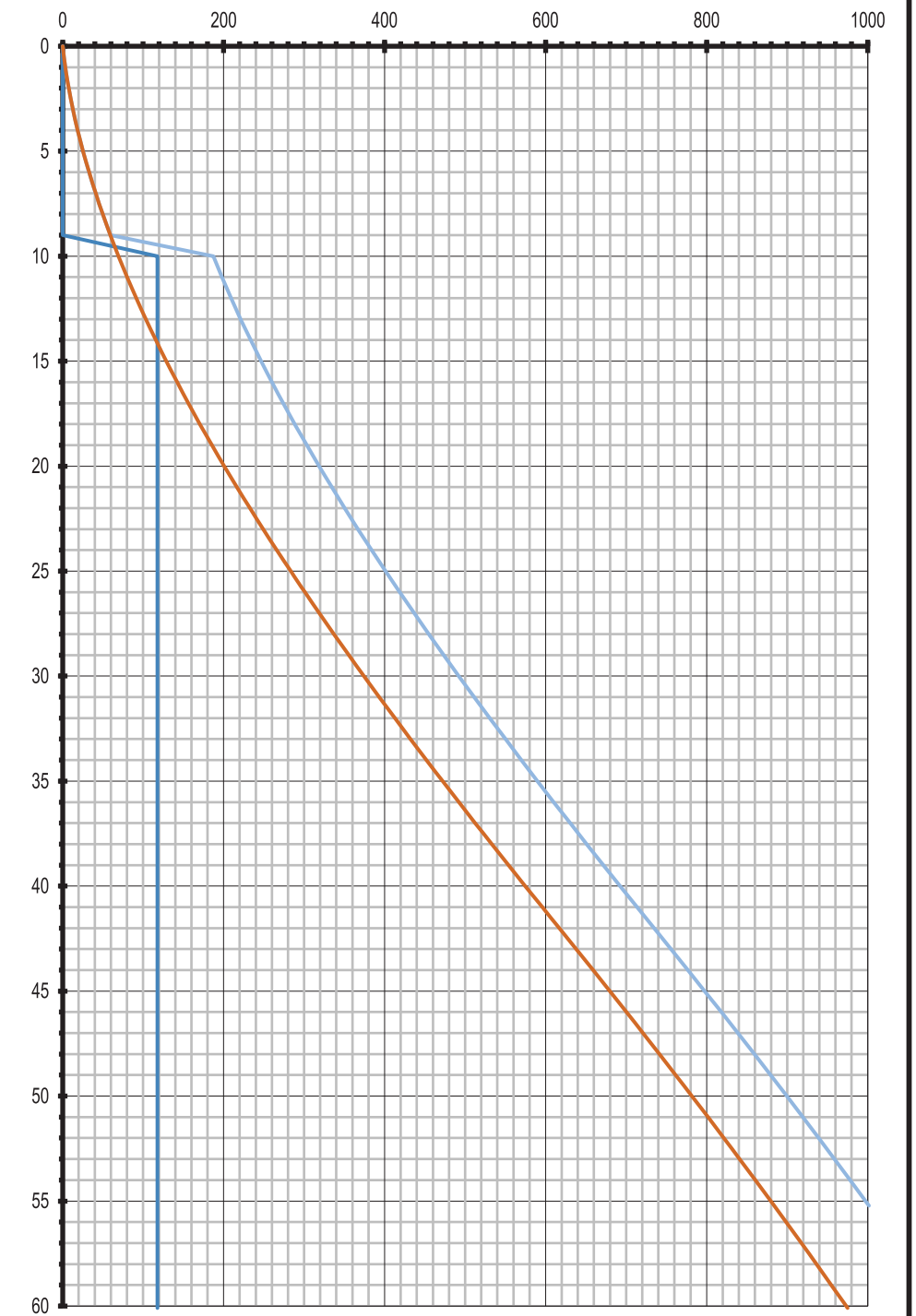
**FACTORED CAPACITY [KIPS]
(24-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(30-INCH DIAMETER PILE)**



**FACTORED CAPACITY [KIPS]
(36-INCH DIAMETER PILE)**



NOTES:

- 1) CIDH pile excavations will need stabilization using drilling slurry and casing.
- 2) All piles should be embedded at least 10-feet into dense Old Alluvium.

— Total Factored Resistance (LRFD) — Factored End Bearing (0.5) — Factored Skin Friction (0.7)



GROUP DELTA CONSULTANTS, INC.
ENGINEERS AND GEOLOGISTS
9245 ACTIVITY ROAD, SUITE 103
SAN DIEGO, CA 92126 (858) 536-1000

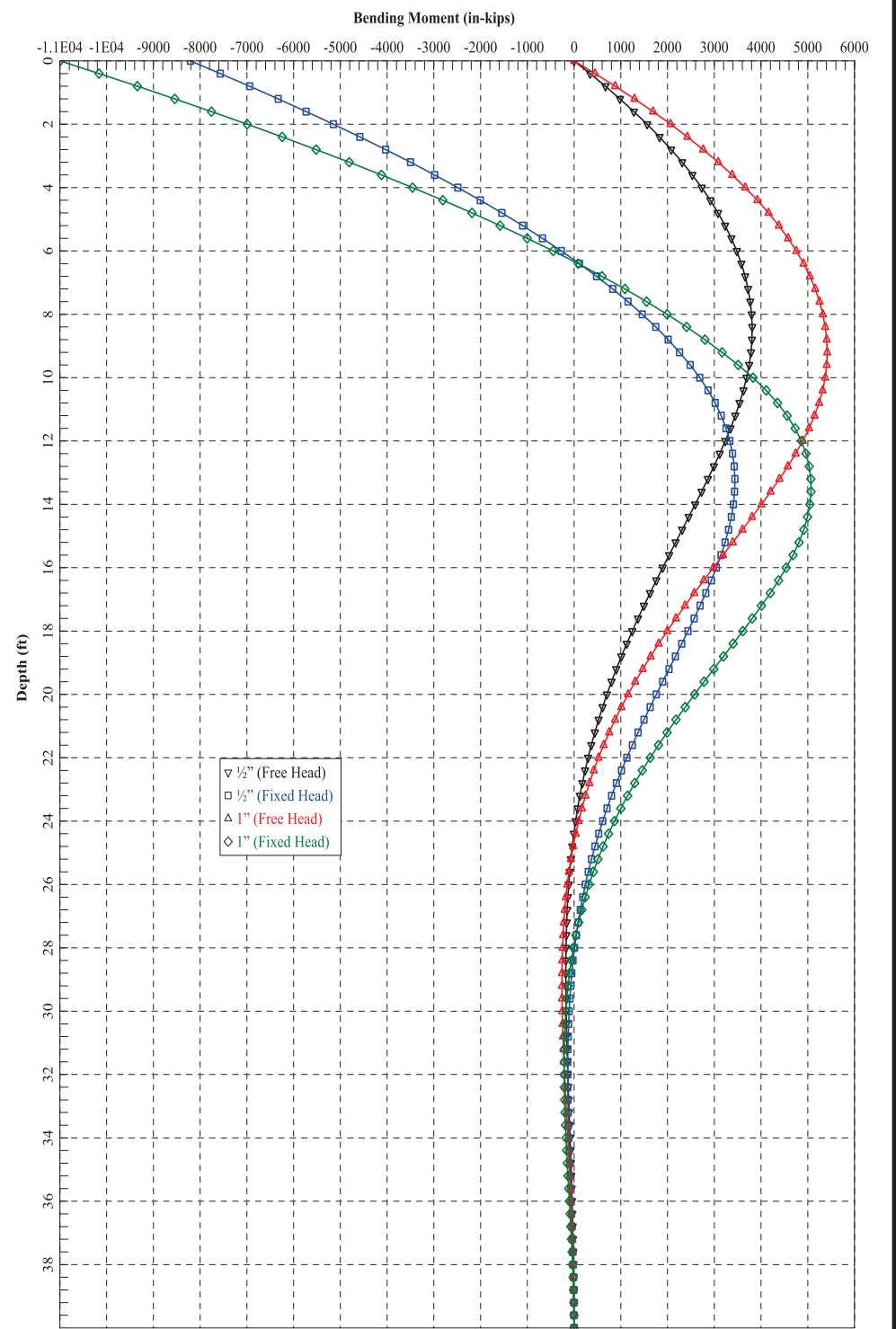
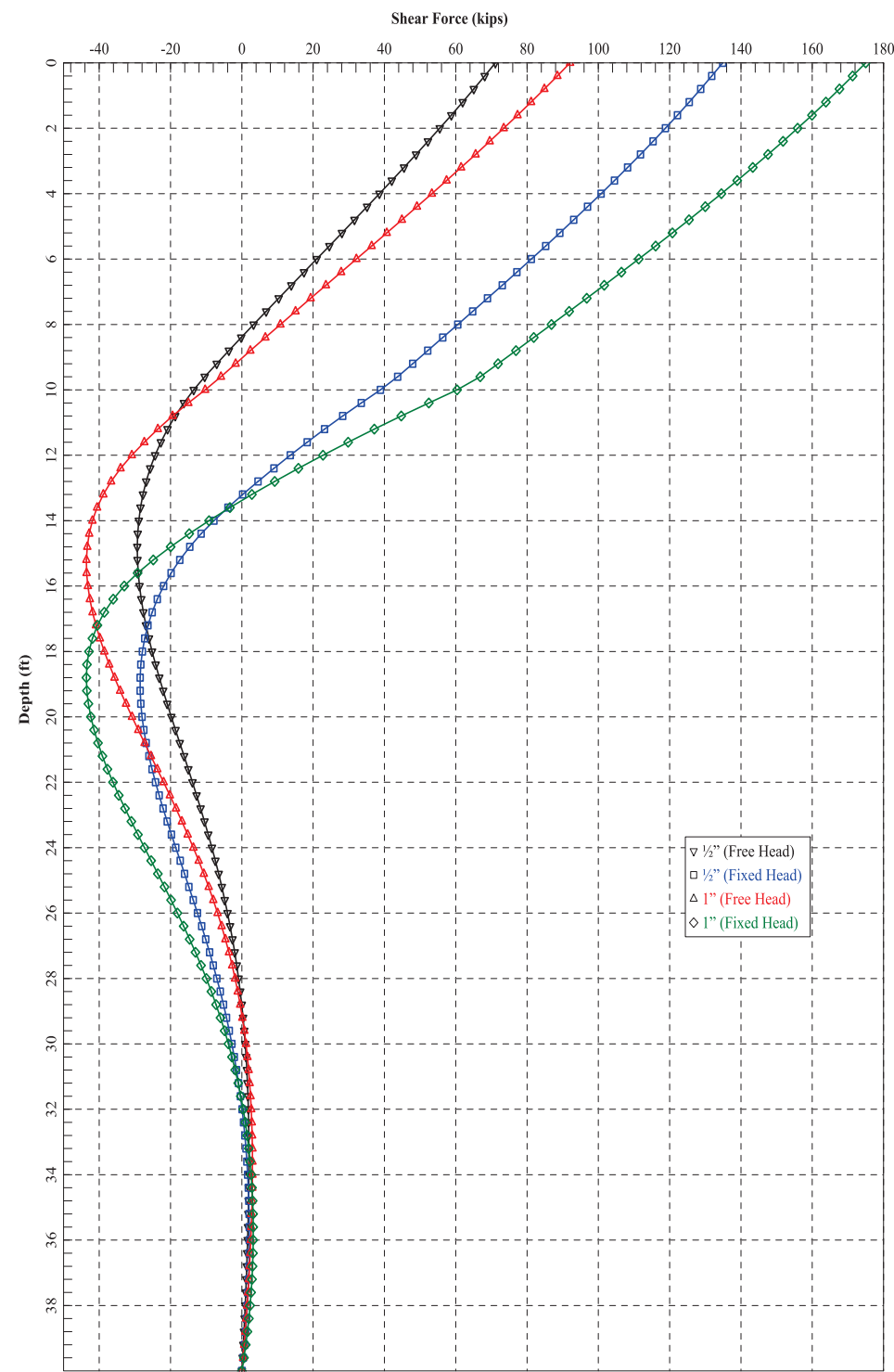
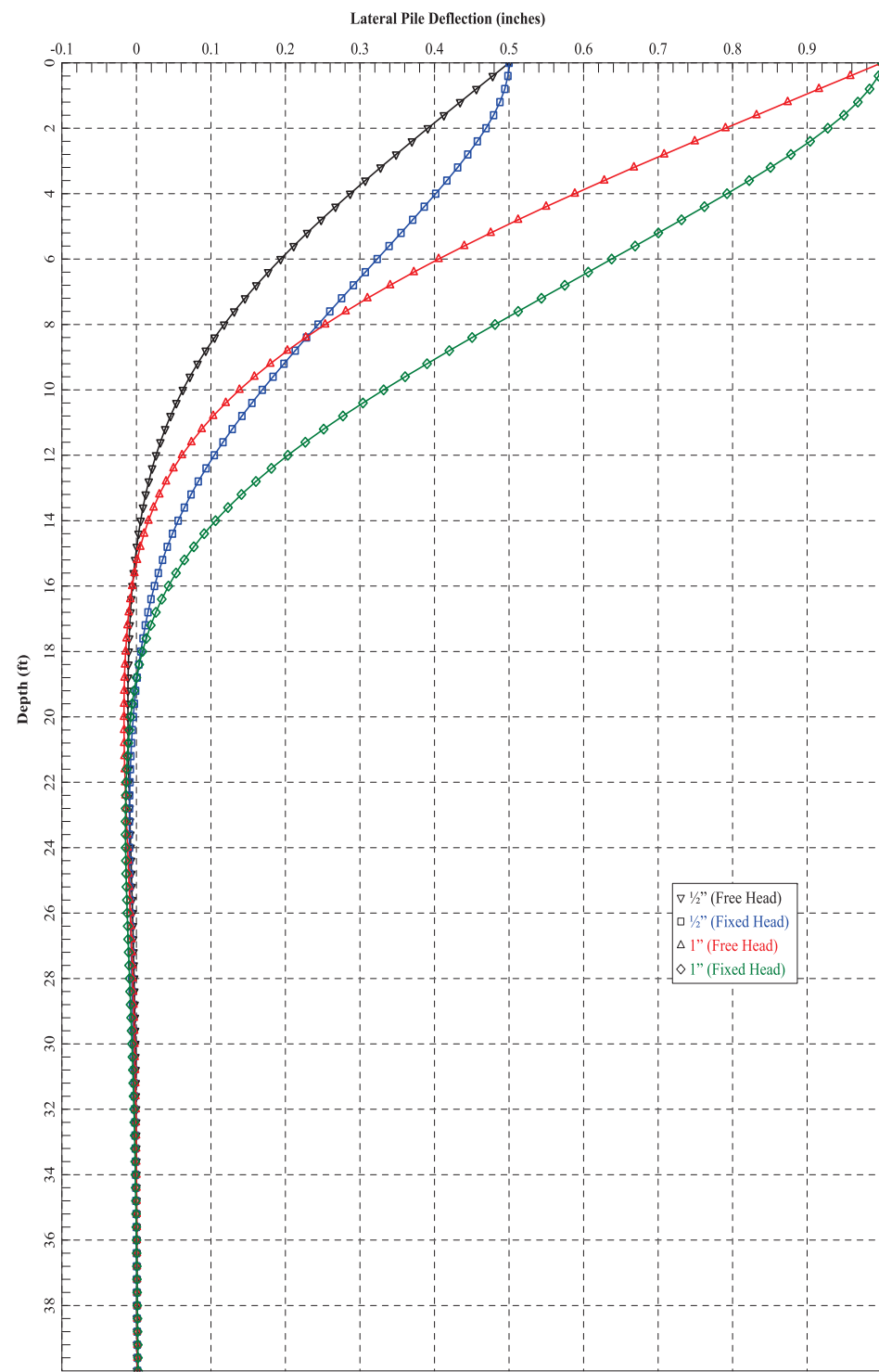
PROJECT NAME
Riverside Community Hospital
HCA Design and Construction

PROJECT NUMBER
SD809

DOCUMENT NUMBER
24-0011

FIGURE NUMBER
7D

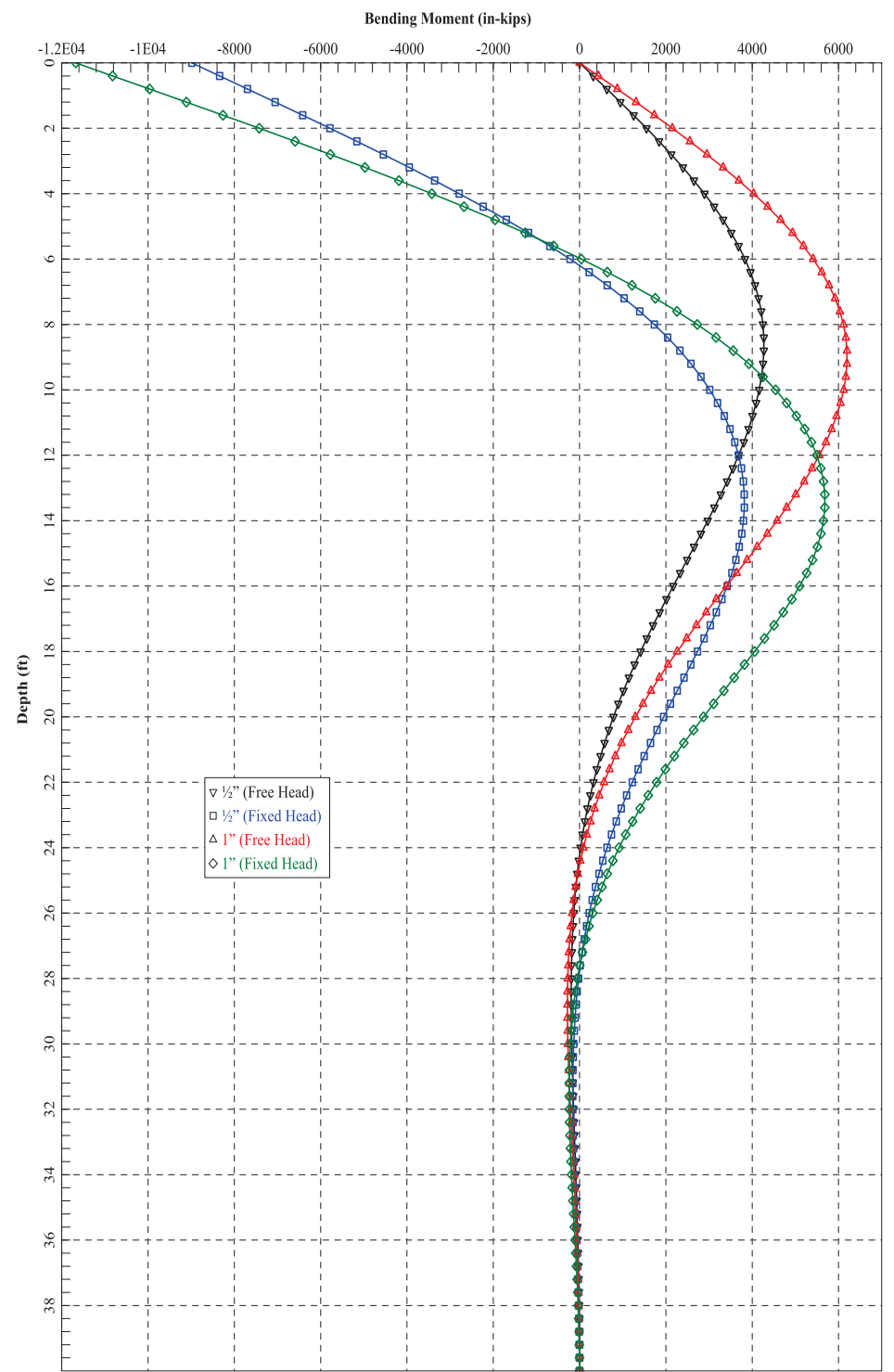
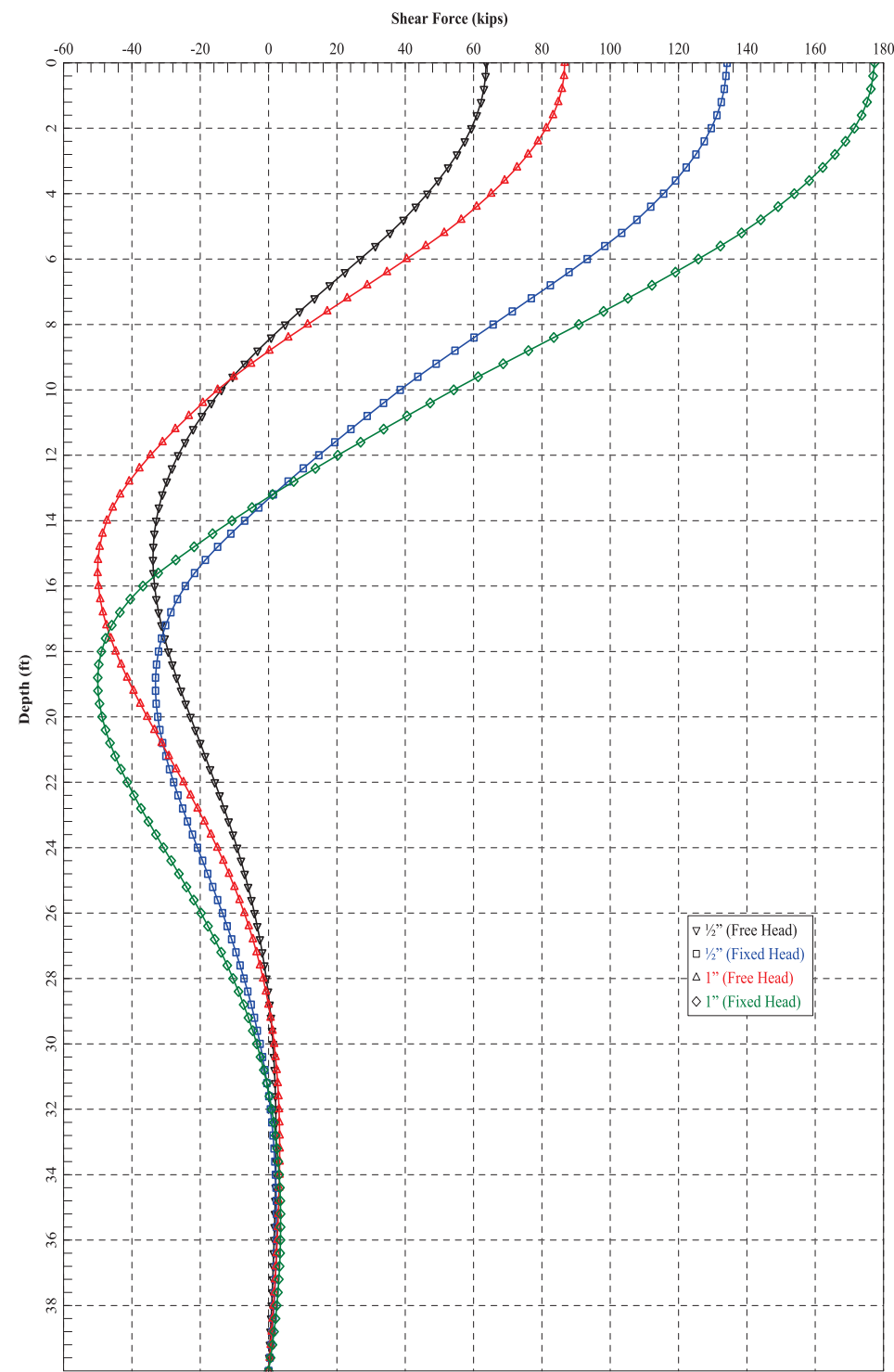
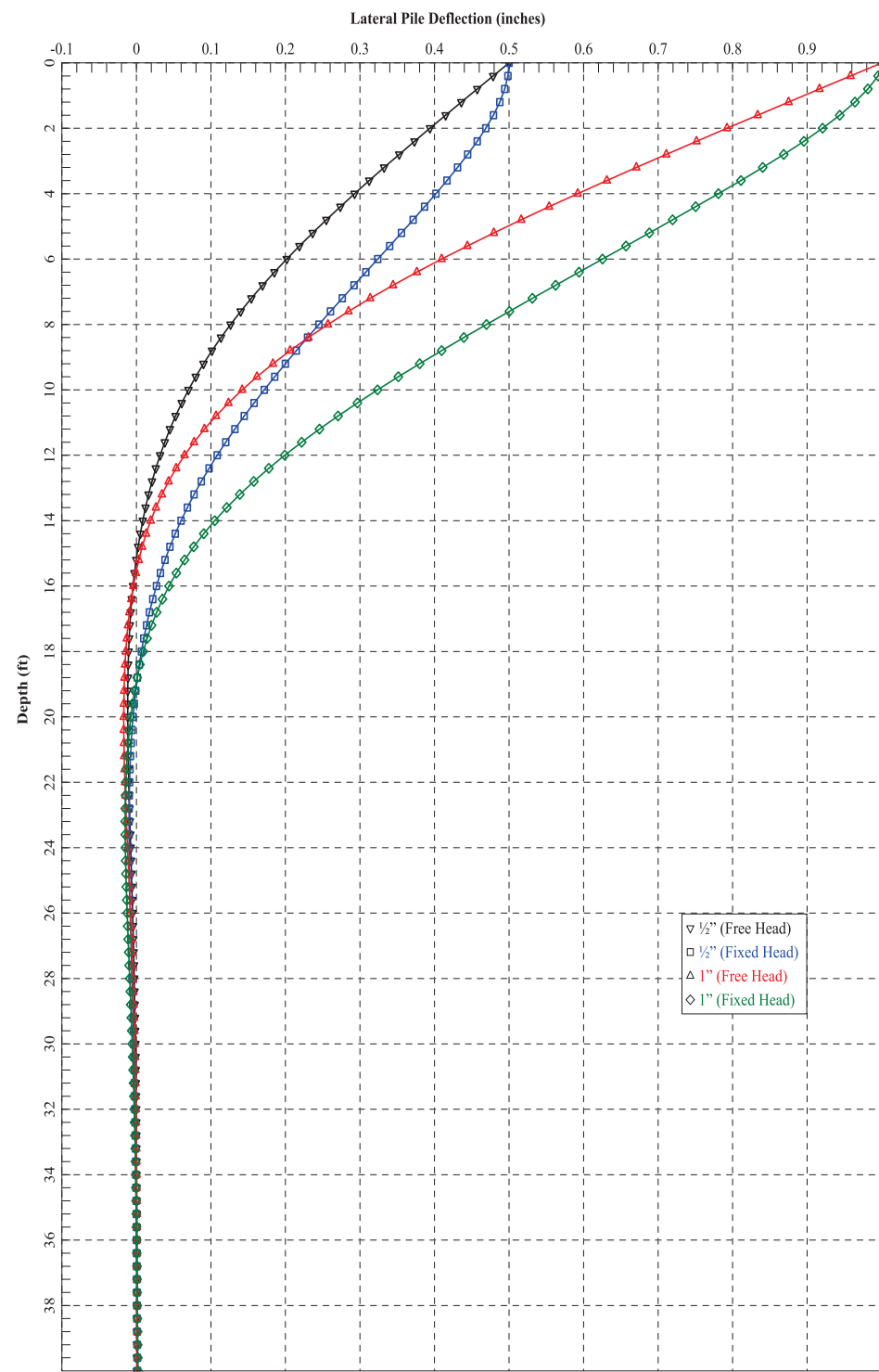
**AXIAL PILE CAPACITY
(TOWER SITE - EAST)**



NOTES:

- 1) The approximate lateral response of a single 30-inch diameter, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) The analyses assume at least 10-foot embedment into dense Old Alluvium, with 4,000 psi concrete strength and (6) No. 14 transverse bars (Grade 60).

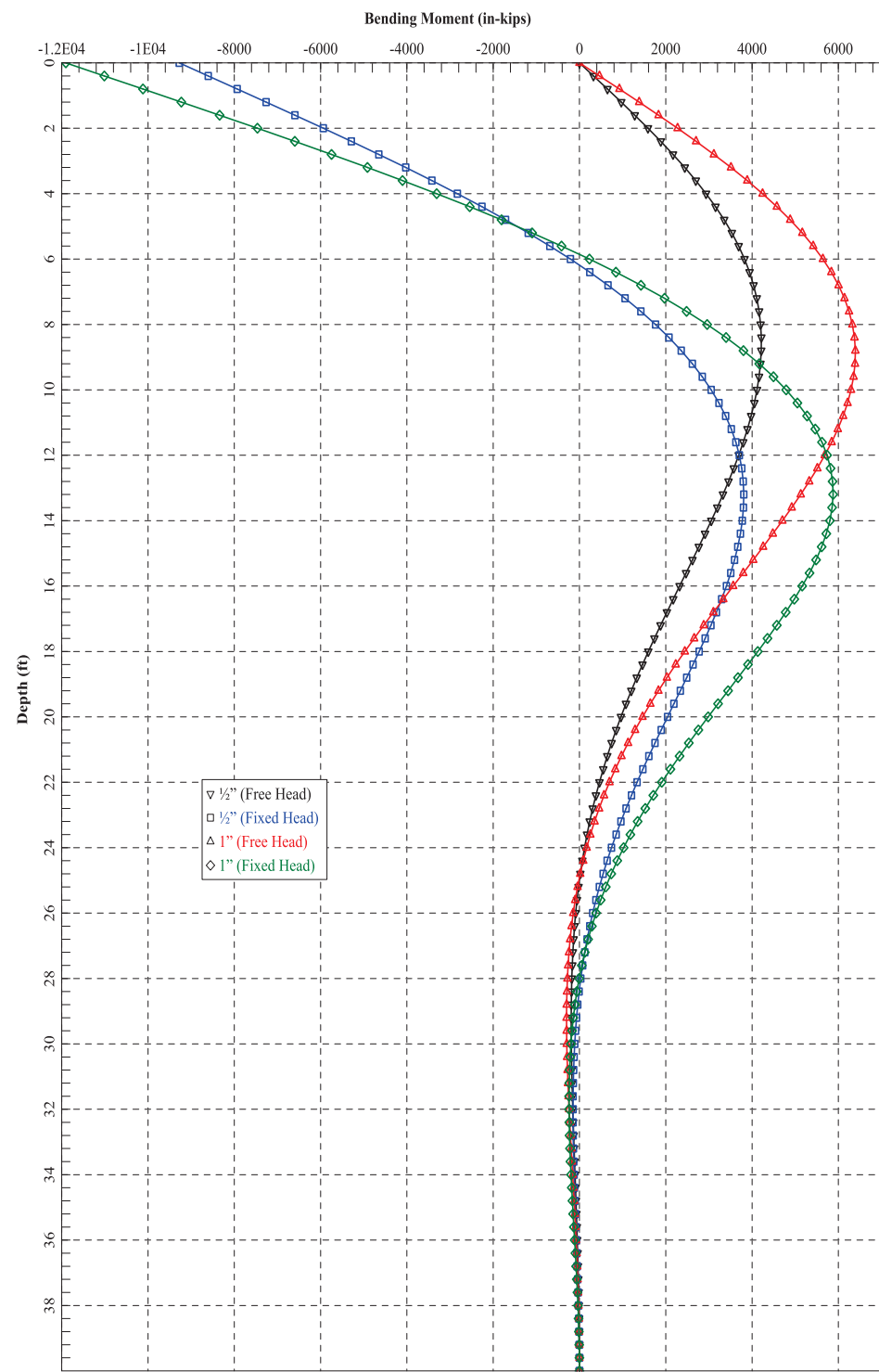
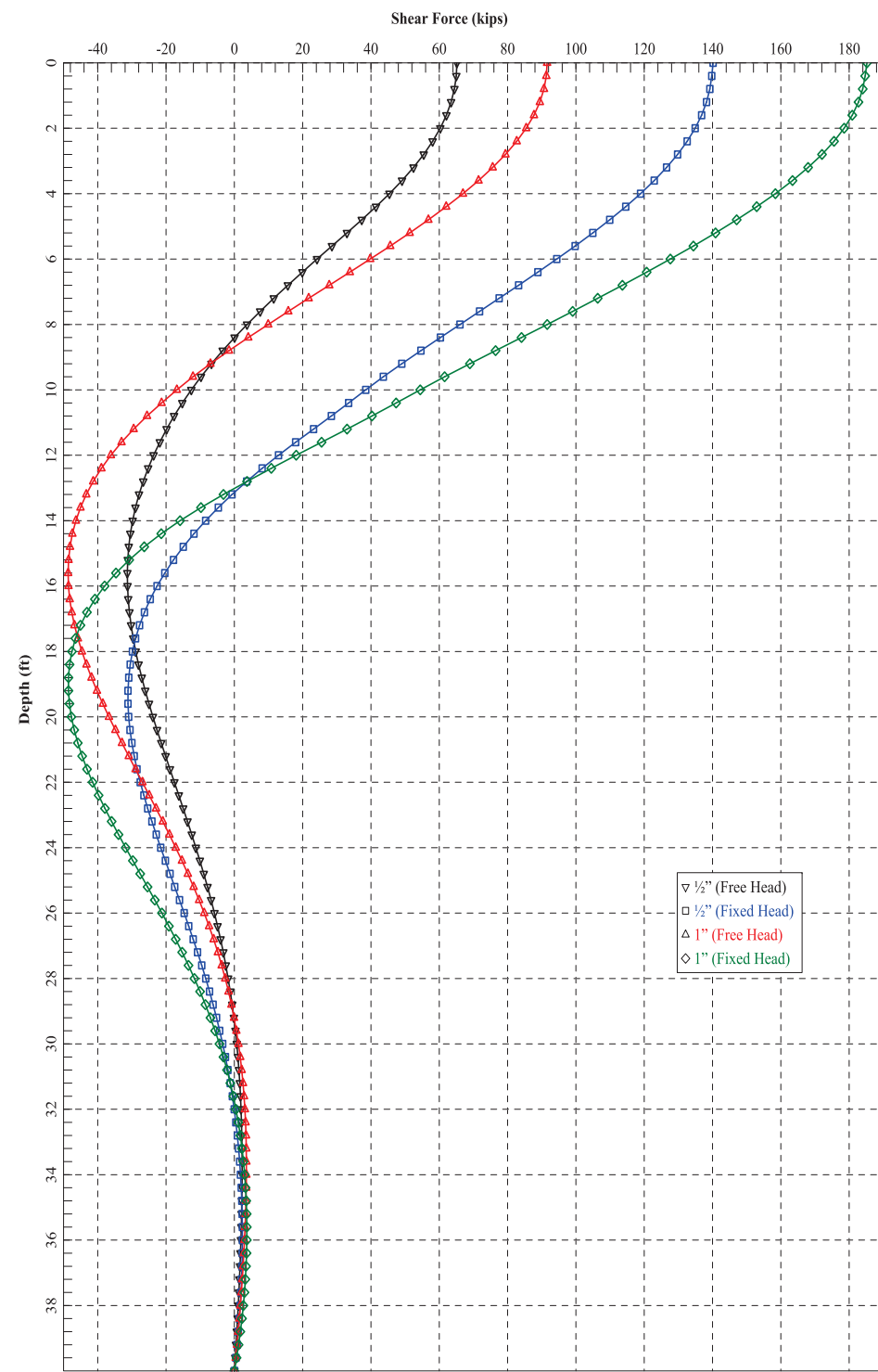
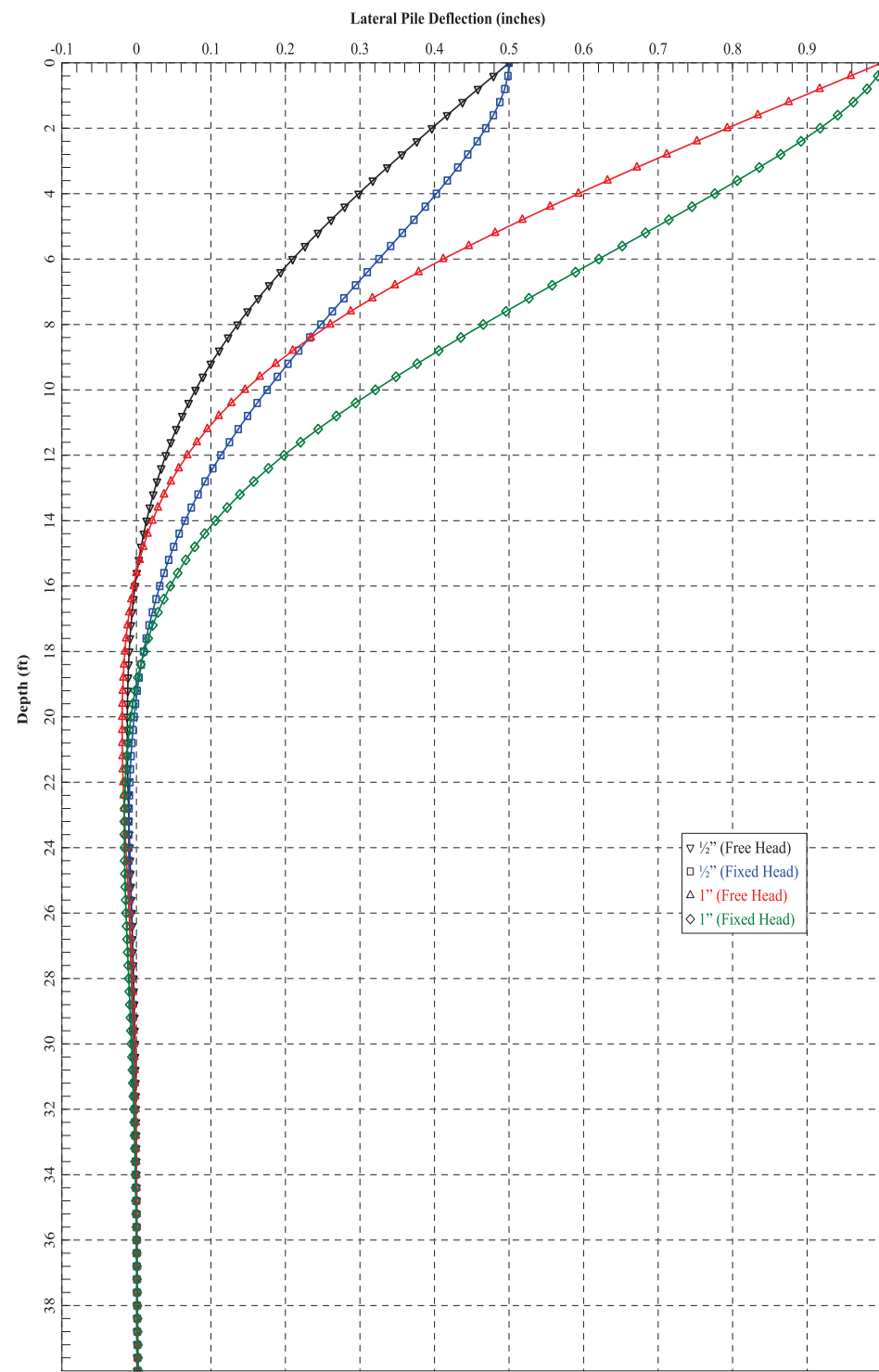
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 8A	
LATERAL PILE CAPACITY (GARAGE SITE - NORTH)		



NOTES:

- 1) The approximate lateral response of a single 30-inch diameter, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) The analyses assume at least 10-foot embedment into dense Old Alluvium, with 4,000 psi concrete strength and (6) No. 14 transverse bars (Grade 60).

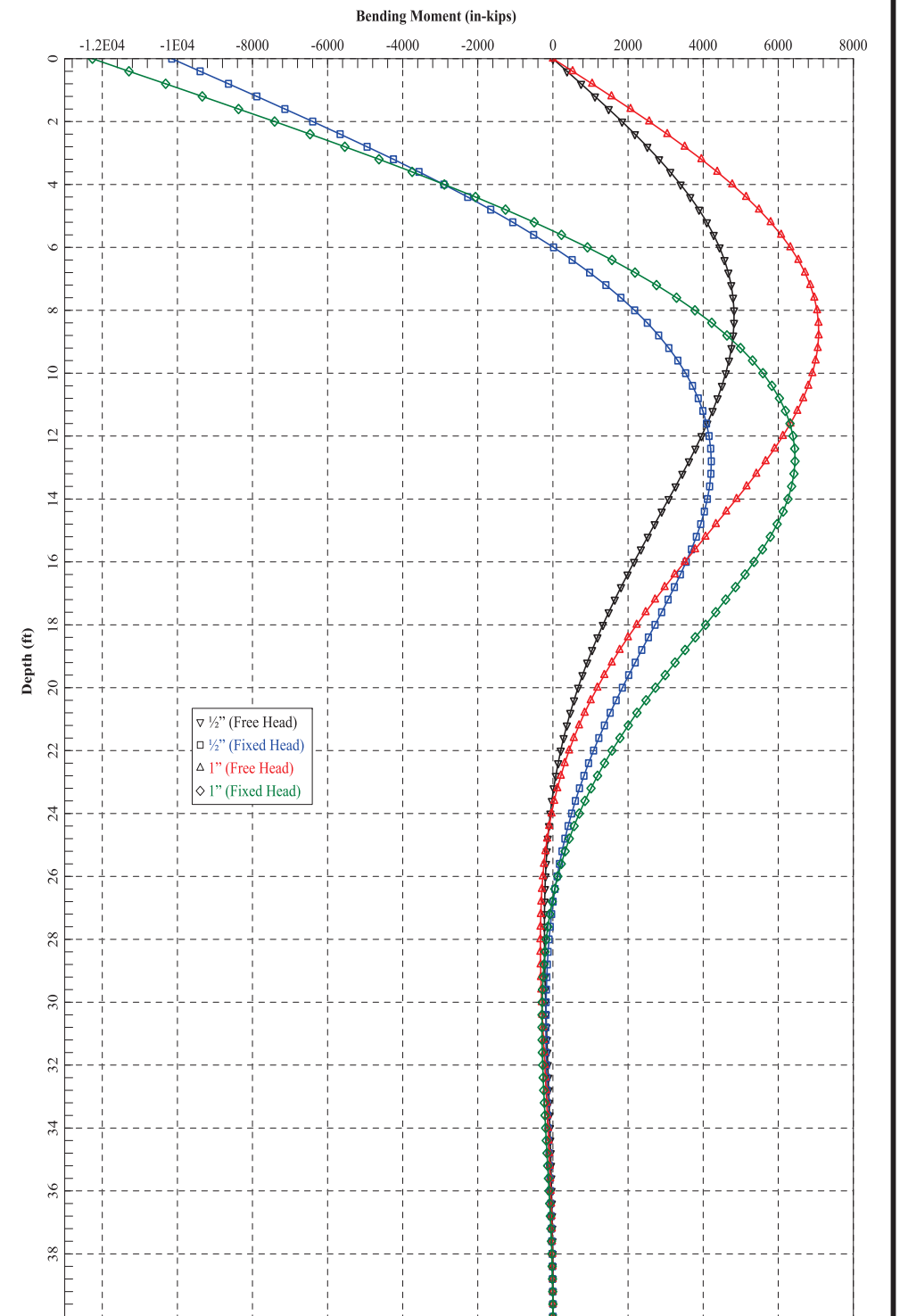
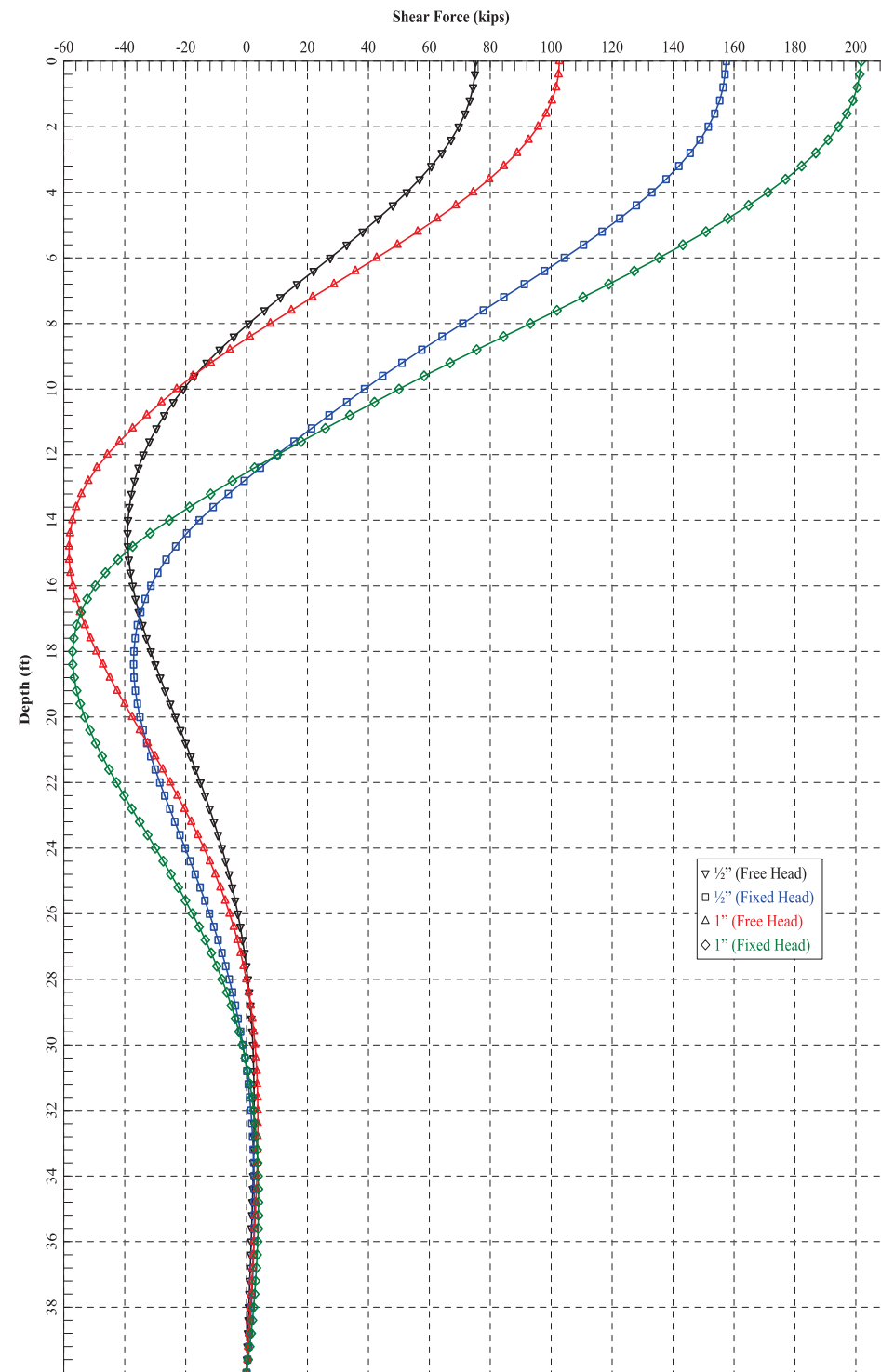
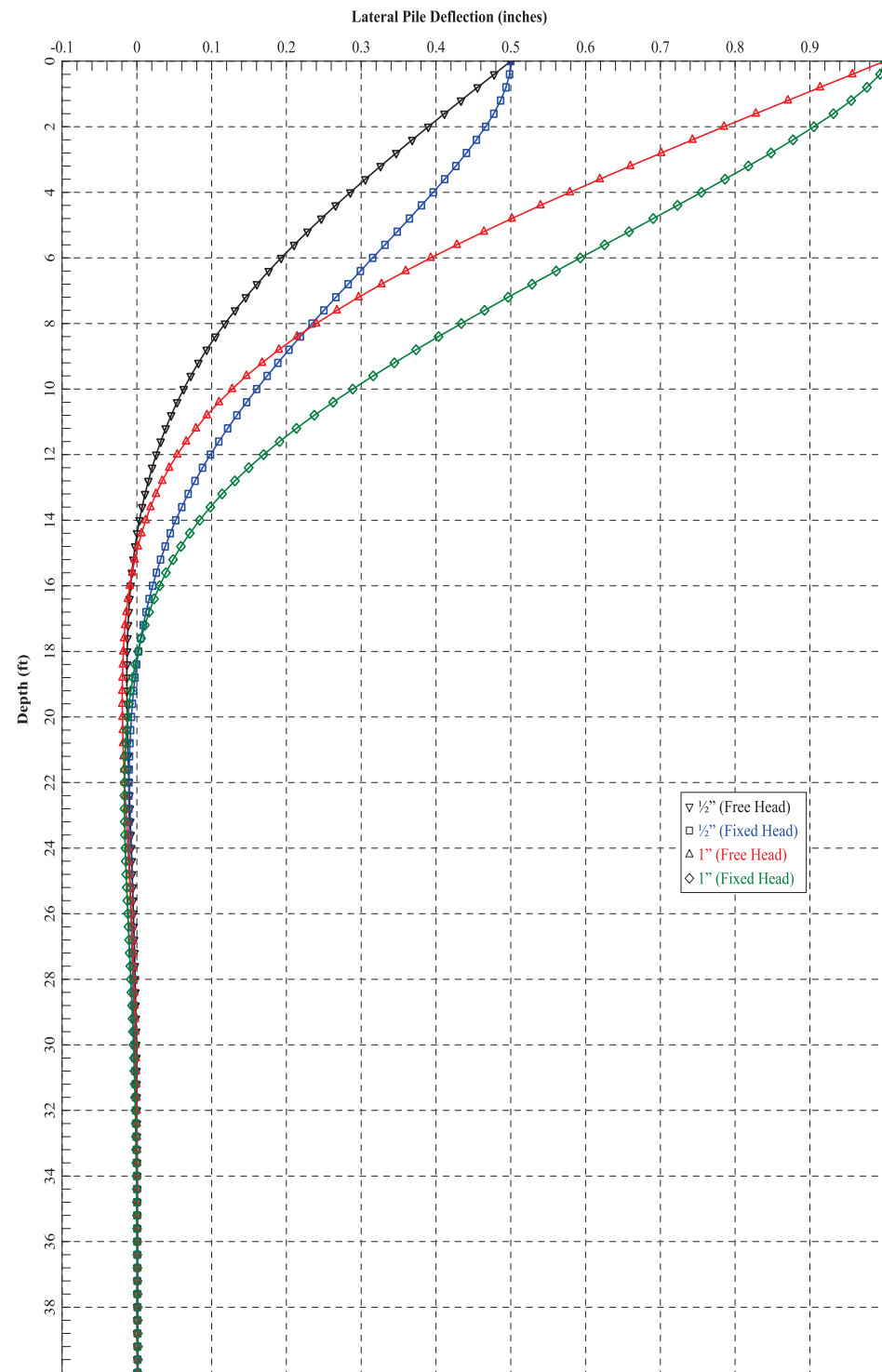
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 8B	
LATERAL PILE CAPACITY (GARAGE SITE - SOUTH)		



NOTES:

- 1) The approximate lateral response of a single 30-inch diameter, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) The analyses assume at least 10-foot embedment into dense Old Alluvium, with 4,000 psi concrete strength and (6) No. 14 transverse bars (Grade 60).

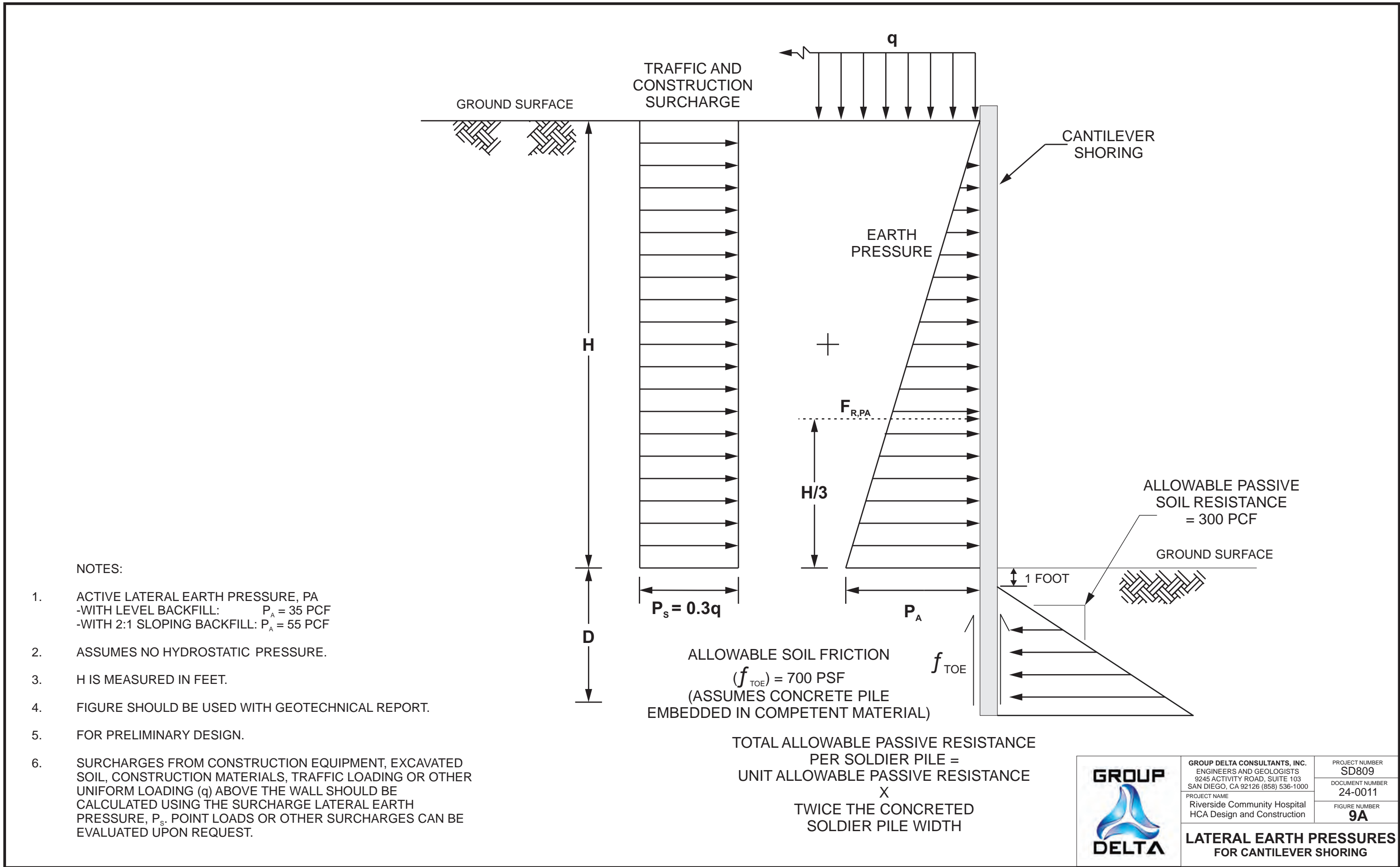
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 8C	
LATERAL PILE CAPACITY (TOWER SITE - WEST)		



NOTES:

- 1) The approximate lateral response of a single 30-inch diameter, 40-foot long pile is shown in the deflection, shear and moment diagrams provided above.
- 2) These analyses assume the eastern Tower piles are completely embedded within dense Old Alluvium, with a pile cut-off below Elevation 810 feet (MSL).

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 8D	
LATERAL PILE CAPACITY (TOWER SITE - EAST)		



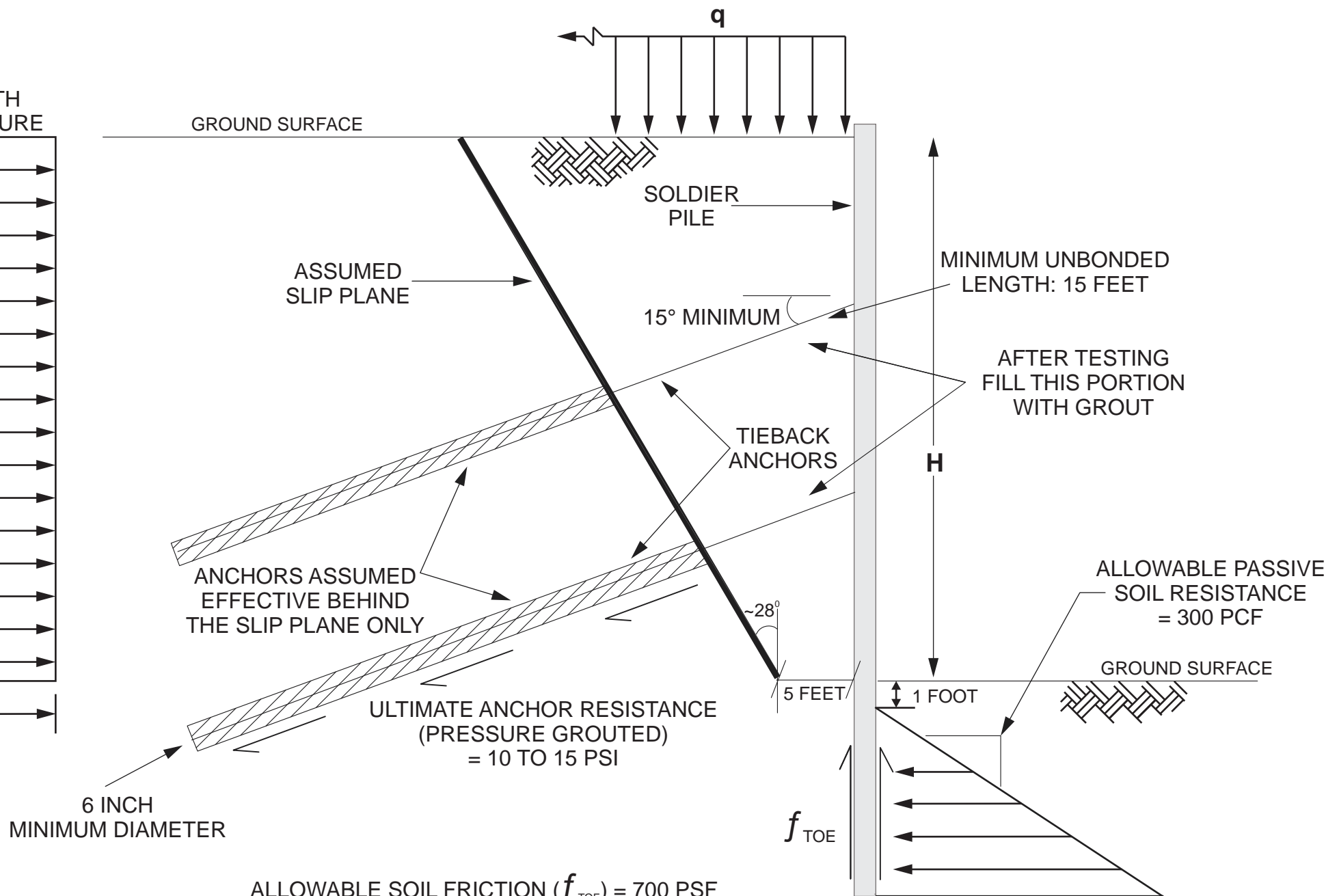
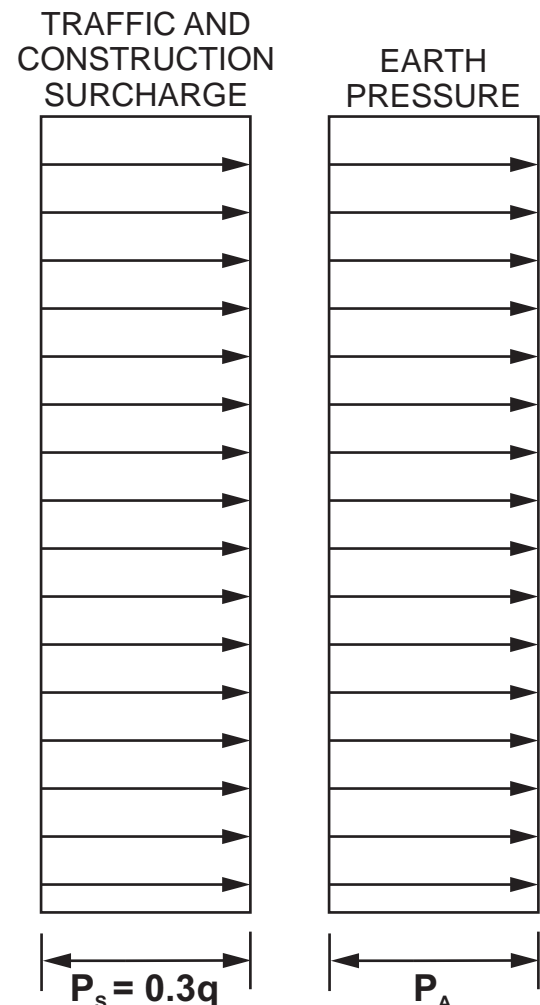
NOTES:

1. ACTIVE LATERAL EARTH PRESSURE, PA
 -WITH LEVEL BACKFILL: $P_A = 35 \text{ PCF}$
 -WITH 2:1 SLOPING BACKFILL: $P_A = 55 \text{ PCF}$
2. ASSUMES NO HYDROSTATIC PRESSURE.
3. H IS MEASURED IN FEET.
4. FIGURE SHOULD BE USED WITH GEOTECHNICAL REPORT.
5. FOR PRELIMINARY DESIGN.
6. SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, CONSTRUCTION MATERIALS, TRAFFIC LOADING OR OTHER UNIFORM LOADING (q) ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE, P_s . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.

ALLOWABLE SOIL FRICTION
 $(f_{TOE}) = 700 \text{ PSF}$
 (ASSUMES CONCRETE PILE
 EMBEDDED IN COMPETENT MATERIAL)

TOTAL ALLOWABLE PASSIVE RESISTANCE
 PER SOLDIER PILE =
 UNIT ALLOWABLE PASSIVE RESISTANCE
 X
 TWICE THE CONCRETED
 SOLDIER PILE WIDTH

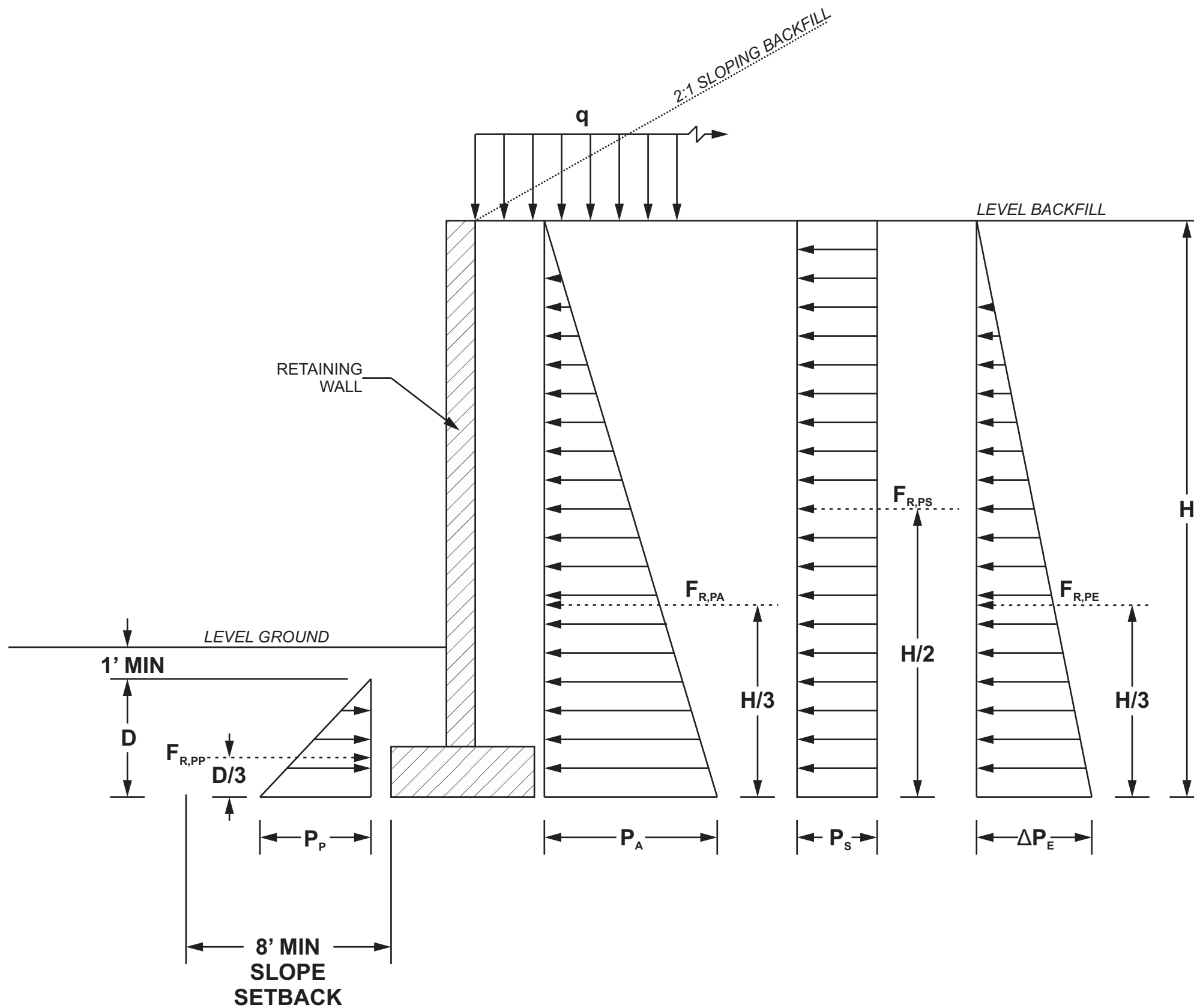
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 9A	
LATERAL EARTH PRESSURES FOR CANTILEVER SHORING		



NOTES:

1. ACTIVE LATERAL EARTH PRESSURE, P_A
 -WITH LEVEL BACKFILL: $P_A = 21H$
 -WITH 2:1 SLOPING BACKFILL: $P_A = 35H$
2. ASSUMES NO HYDROSTATIC PRESSURE.
3. VALUES ASSUME SHORED MATERIAL IS GRANULAR ON-SITE SOIL AS DESCRIBED IN THE REPORT OF GEOTECHNICAL INVESTIGATION.
4. H IS MEASURED IN FEET.
5. FIGURE SHOULD BE USED WITH GEOTECHNICAL REPORT.
6. FOR PRELIMINARY DESIGN.
7. SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, CONSTRUCTION MATERIALS, TRAFFIC LOADING OR OTHER UNIFORM LOADING (q) ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE, P_s . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 9B	
LATERAL EARTH PRESSURES FOR BRACED OR ANCHORED SHORING		



NOTES:

1. PASSIVE PRESSURES MAY BE INCREASED BY $\frac{1}{3}$ DURING SEISMIC LOADING. THE UPPER 12 INCHES OF MATERIAL NOT PROTECTED BY CONCRETE SLABS OR PAVEMENTS SHOULD NOT BE INCLUDED IN THE ESTIMATION OF PASSIVE RESISTANCE.
2. ASSUMES NO HYDROSTATIC PRESSURE. A WALL BACK DRAIN SHOULD BE INSTALLED AS RECOMMENDED IN THE WALL DRAINAGE DETAIL FIGURE.
3. SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, TRAFFIC LOADING OR OTHER UNIFORM LOADING ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE, P_s . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.
4. SEISMIC INCREMENT LATERAL EARTH PRESSURE (ΔP_E) IS BASED ON A DESIGN-LEVEL PEAK GROUND ACCELERATION OF 0.41g. SEISMIC INCREMENT SHOULD BE APPLIED TO WALLS SIX FEET OR GREATER IN HEIGHT.
5. 'H' AND 'D' ARE MEASURED IN FEET.
6. PRESSURES ASSUME GRANULAR AND NON-EXPANSIVE SOIL MATERIALS COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

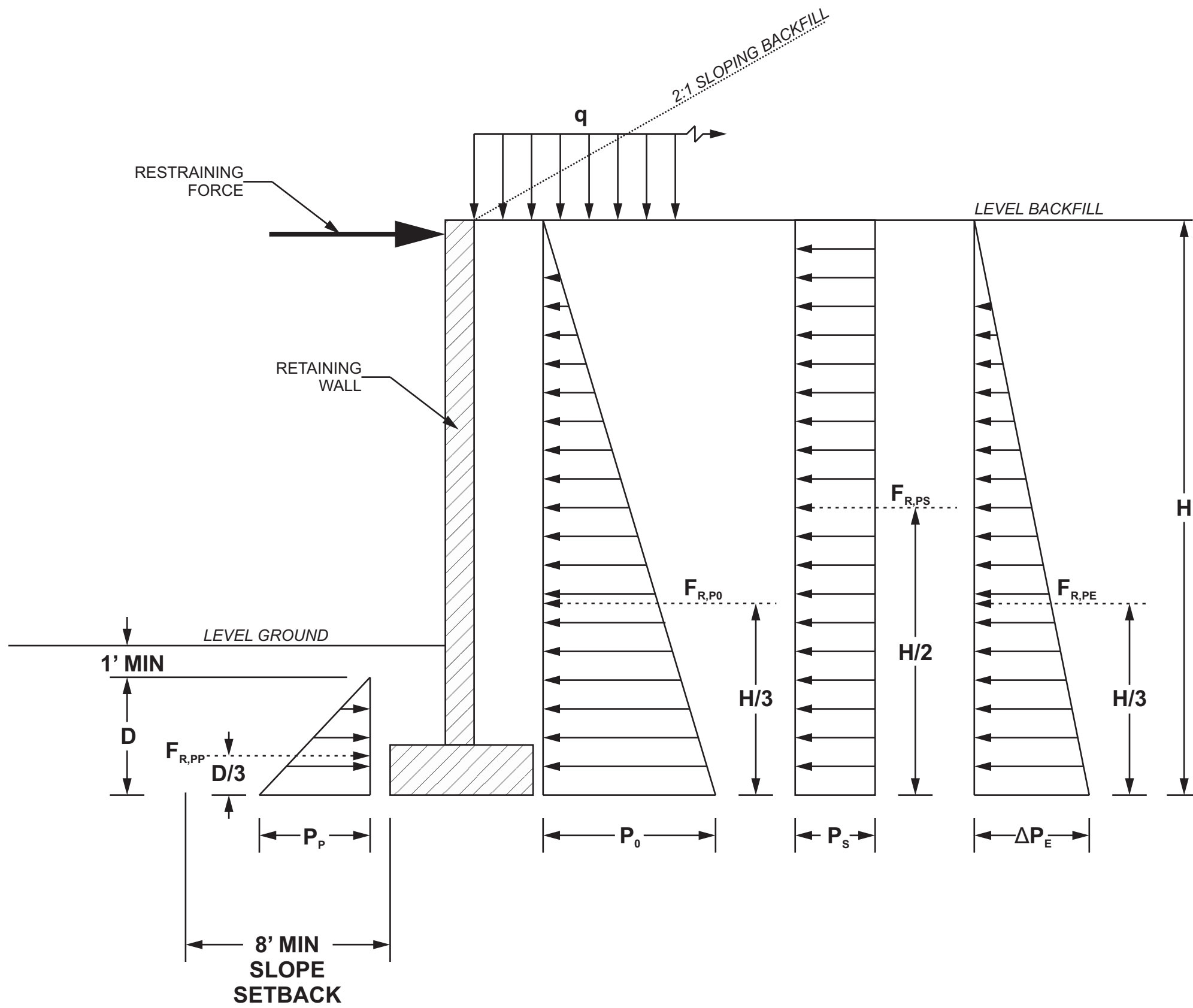
LATERAL EARTH PRESSURES

LATERAL EARTH PRESSURE TYPE	EQUIVALENT FLUID PRESSURE (PCF)	
	LEVEL BACKFILL	2:1 SLOPING BACKFILL
ACTIVE, P_A		
COMPACTED FILL	35	55
SEISMIC INCREMENT, ΔP_E^*	23	
PASSIVE, P_p^{**}	300	
SURCHARGE, P_s	0.3q	

*SEISMIC PRESSURE, $P_{AE} = P_A + \Delta P_E$

**PASSIVE RESISTANCE VERSUS DISPLACEMENT CURVES CAN BE PROVIDED UPON REQUEST.

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 9C	
LATERAL EARTH PRESSURES FOR YIELDING RETAINING WALLS		



NOTES:

- PASSIVE PRESSURES MAY BE INCREASED BY $\frac{1}{3}$ DURING SEISMIC LOADING. THE UPPER 12 INCHES OF MATERIAL NOT PROTECTED BY CONCRETE SLABS OR PAVEMENTS SHOULD NOT BE INCLUDED IN THE ESTIMATION OF PASSIVE RESISTANCE.
- ASSUMES NO HYDROSTATIC PRESSURE. A WALL BACK DRAIN SHOULD BE INSTALLED AS RECOMMENDED IN THE WALL DRAINAGE DETAIL FIGURE.
- SURCHARGES FROM CONSTRUCTION EQUIPMENT, EXCAVATED SOIL, TRAFFIC LOADING OR OTHER UNIFORM LOADING ABOVE THE WALL SHOULD BE CALCULATED USING THE SURCHARGE LATERAL EARTH PRESSURE, P_s . POINT LOADS OR OTHER SURCHARGES CAN BE EVALUATED UPON REQUEST.
- SEISMIC INCREMENT LATERAL EARTH PRESSURE (ΔP_E) IS BASED ON A DESIGN-LEVEL PEAK GROUND ACCELERATION OF 0.41g. SEISMIC INCREMENT SHOULD BE APPLIED TO WALLS SIX FEET OR GREATER IN HEIGHT.
- 'H' AND 'D' ARE MEASURED IN FEET.
- PRESSURES ASSUME GRANULAR AND NON-EXPANSIVE SOIL MATERIALS COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT.

LATERAL EARTH PRESSURES

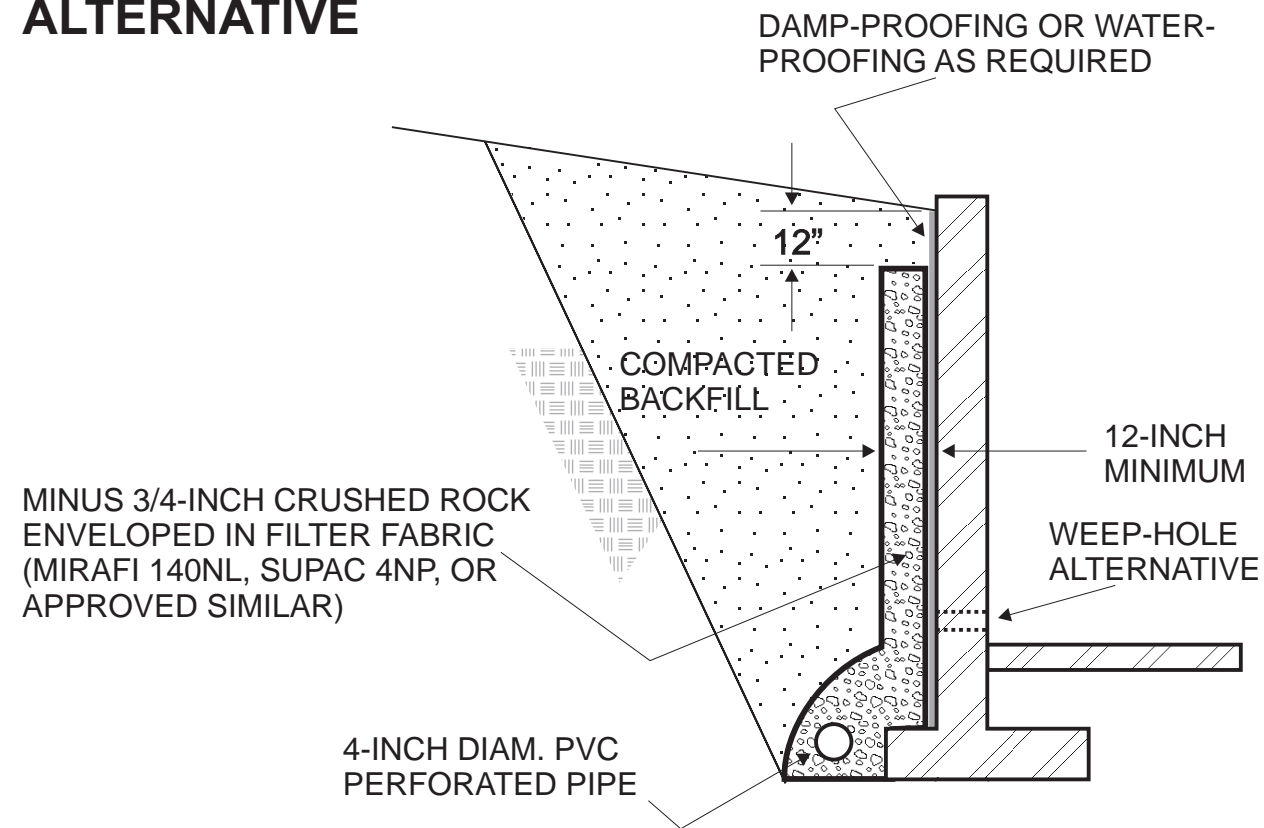
LATERAL EARTH PRESSURE TYPE	EQUIVALENT FLUID PRESSURE (PCF)	
	LEVEL BACKFILL	2:1 SLOPING BACKFILL
AT-REST, P_0	LEVEL BACKFILL	2:1 SLOPING BACKFILL
COMPACTED FILL	60	90
SEISMIC INCREMENT, ΔP_E^*	(SEE FIGURE 9C)	
PASSIVE, P_p^{**}	300	
SURCHARGE, P_s	0.5q	

*SEISMIC PRESSURE, $P_{AE} = P_A + \Delta P_E$ (SEE FIGURE 9C)

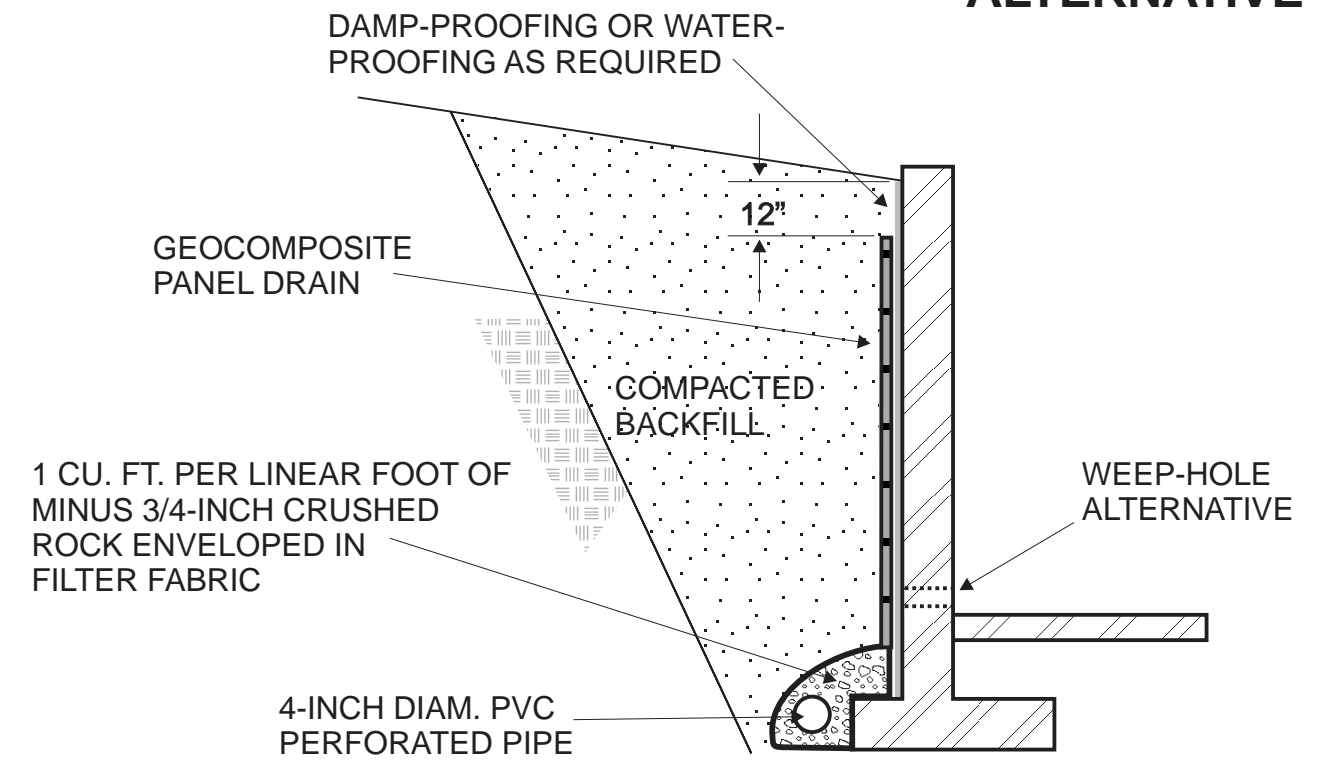
**PASSIVE RESISTANCE VERSUS DISPLACEMENT CURVES CAN BE PROVIDED UPON REQUEST.

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 9D	
LATERAL EARTH PRESSURES FOR BRACED RETAINING WALLS		

ROCK AND FABRIC ALTERNATIVE



PANEL DRAIN ALTERNATIVE



NOTES

- 1) Perforated pipe should outlet through a solid pipe to a free gravity outfall. Perforated pipe and outlet pipe should have a fall of at least 1%.
- 2) As an alternative to the perforated pipe and outlet, weep-holes may be constructed. Weep-holes should be at least 2 inches in diameter, spaced no greater than 8 feet, and be located just above grade at the bottom of wall.
- 3) Filter fabric should consist of Mirafi 140N, Supac 5NP, Amoco 4599, or similar approved fabric. Filter fabric should be overlapped at least 6-inches.
- 4) Geocomposite panel drain should consist of Miradrain 6000, J-DRain 400, Supac DS-15, or approved similar product.

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER SD809
	PROJECT NAME Riverside Community Hospital HCA Design and Construction	DOCUMENT NUMBER 24-0011
	FIGURE NUMBER 9E	
WALL DRAINAGE DETAILS		

APPENDIX A
FIELD EXPLORATION

APPENDIX A

FIELD EXPLORATION

The field exploration program included a geologic reconnaissance of the site, the advancement of 5 cone penetrometer test (CPT) soundings, the drilling of 10 exploratory borings, and borehole percolation testing at 12 locations. The subsurface explorations and field infiltration tests were completed between March 22nd and April 5th, 2024. The CPT soundings were advanced by Kehoe Testing and Engineering. The exploratory borings were advanced by Yellow Jacket Drilling. The infiltration tests were completed by Group Delta personnel using a hand auger. The exploration locations are shown on the Exploration Plans, Figures 3A to 3C. The CPT data and interpreted soil profiles are presented in Figures A-1 to A-5. Boring Records are provided in Figures A-6 to A-15. The field infiltration test results are discussed in the text of this report and presented in detail in the figures of Appendix D. The subsurface explorations are summarized in the table below.

Exploration ID	Exploration Date	Latitude	Longitude	Ground Surface Elevation [FT]	Exploration Depth [FT]	Figure No.
CPT-1	03/22/24	33.977986°	-117.382803°	800	34.0	A-1
CPT-2	03/22/24	33.977770°	-117.383393°	796	37.5	A-2
CPT-3	03/22/24	33.977144°	-117.383833°	793	20.7	A-3
CPT-4	03/22/24	33.976485°	-117.383034°	794	25.0	A-4
CPT-5	03/22/24	33.976042°	-117.381919°	839	54.7	A-5
B-01	04/04/24	33.978130°	-117.383124°	800	36½	A-6
B-02	04/01/24	33.977907°	-117.383271°	798	51½	A-7
B-03	04/02/24	33.977754°	-117.382979°	798	36½	A-8
B-04	04/04/24	33.977536°	-117.383915°	794	31	A-9
B-05	04/04/24	33.977440°	-117.383294°	796	31½	A-10
B-06	04/03/24	33.977308°	-117.384145°	794	31½	A-11
B-07	04/04/24	33.976992°	-117.383266°	794	28	A-12
B-08	04/01/24	33.976503°	-117.383073°	794	30	A-13
B-09	04/05/24	33.976063°	-117.382178°	832	31½	A-14
B-10	04/02/24	33.976190°	-117.381820°	838	51½	A-15

The 10 CPT soundings were advanced by Kehoe Testing and Engineering in general accordance with ASTM D5778 using a 30-ton truck mounted rig with a 15 cm² cone. Integrated electronic circuitry was used to measure the tip resistance (Qc) and skin friction (Fs) at one-inch intervals while the CPT was advanced into the soil using hydraulic down pressure. Note that each of the CPT soundings was pushed to practical refusal, as indicated by a CPT tip resistance in excess of 700 tons per square foot (TSF). A piezometer located behind the cone tip also measured transient pore pressure (u). The CPT data was used to characterize the soil profile are based on normalized cone resistance and friction ratio interpretations (Robertson, 2010). The first figure for each CPT sounding presents both the raw CPT data and the interpreted soil profile (Figures A-1a to A-5a). The raw CPT data is also shown in more detail in the following Figures A-1b to A-5b for each CPT sounding.



APPENDIX A

FIELD EXPLORATION (Continued)

At the location of soundings CPT-1, CPT-2 and CPT-5, shear wave velocity measurements were collected at 5-foot depth intervals using an air actuated hammer located inside the front jack of the rig. The interval shear wave data measured in each of these three CPT soundings is attached immediately after the interpreted soil parameters. The average shear wave velocity measured within the upper 34 to 35 feet (V_{sd}) at the location of CPT-1 and CPT-2 was 876 to 899 ft/s. If we assume a uniform shear wave velocity of 1,940 ft/s for the Old Alluvium below that depth based on the lower bound of the shear wave velocity measurements conducted by others, the average shear wave velocity for the upper 100 feet of the soil profile (V_{s30}) for the Garage site would be about 1,390 ft/s (CHJ, 2007). This correlates to a 2022 CBC Site Class C for the proposed Garage site.

The average shear wave velocity measured within the upper 55 feet (V_{sd}) of the compacted fill and Old Alluvium along the east end of Tower Site in CPT-5 was 1,390 ft/s. If we again assume a shear wave velocity of 1,940 ft/s for the Old Alluvium below that depth, the average shear wave velocity for the upper 100 feet of the soil profile (V_{s30}) at the east end of the Tower site is estimated at 1,600 ft/s (CHJ, 2007). This also corresponds to a 2022 CBC Site Class C for the proposed Tower site.

The exploratory borings were advanced by Yellow Jacket Drilling using their CME 75 limited access track mounted rig, and their CME 85 truck mounted rig. Disturbed soil samples were collected from the exploratory borings using a 2-inch outside diameter Standard Penetration Test (SPT) sampler. Less disturbed samples were collected using a 3-inch outside diameter ring lined sampler (a modified California sampler). Automatic hammers with calibrated Energy Transfer Ratios (ETR) ranging from approximately 74 to 80 percent were used to collect all of the drive samples. For each sample, the number of blows needed to drive the sampler 12 inches was recorded on the logs. The field blow counts (N) were normalized to approximate a standard 60 percent ETR as shown on the logs (N_{60}). Bulk samples were also collected from the explorations at selected intervals.

The field exploration locations were determined by visually estimating, pacing and taping distances from landmarks shown on the Exploration Plans, Figures 3A to 3C. The locations shown should not be considered more accurate than is implied by the method of measurement used and the scale of the map. The lines designating the interface between differing soil materials on the logs may be abrupt or gradational. Further, soil conditions at locations between the excavations may be substantially different from those at the specific locations we explored. It should be noted that the passage of time may also result in changes in the soil conditions reported in the logs.

Logs for several previous field explorations completed by others are also included in Appendix A1 for reference. These logs include Borings B-1, B-2, B-6, B-7, B-8 and B-9 as well as CPT-1 to CPT-6 at the proposed Tower site (CHJ, 2008). Borings B-1 and B-2 are also included from a previous investigation for the MOB located along the southern edge of the Garage site (CHJ, 2012). The approximate locations of the relevant previous explorations are shown in Figures 3B and 3C.



SOIL IDENTIFICATION AND DESCRIPTION SEQUENCE

Sequence	Identification Components	Refer to Section		Required	Optional
		Field	Lab		
1	Group Name	2.5.2	3.2.2	●	○
2	Group Symbol	2.5.2	3.2.2	●	
	Description Components				
3	Consistency of Cohesive Soil	2.5.3	3.2.3	●	
4	Apparent Density of Cohesionless Soil	2.5.4		●	
5	Color	2.5.5		●	
6	Moisture	2.5.6		●	
	Percent of Proportion of Soil	2.5.7	3.2.4	●	●
7	Particle Size	2.5.8	2.5.8	●	●
	Particle Angularity	2.5.9			○
	Particle Shape	2.5.10			○
8	Plasticity (for fine-grained soil)	2.5.11	3.2.5		○
9	Dry Strength (for fine-grained soil)	2.5.12			○
10	Dilatency (for fine-grained soil)	2.5.13			○
11	Toughness (for fine-grained soil)	2.5.14			○
12	Structure	2.5.15			○
13	Cementation	2.5.16		●	
14	Percent of Cobbles and Boulders	2.5.17		●	
	Description of Cobbles and Boulders	2.5.18		●	
15	Consistency Field Test Result	2.5.3		●	
16	Additional Comments	2.5.19			○

Minimum Required Sequence:

USCS Group Name (Group Symbol); Consistency or Density; Color; Moisture; Percent of Proportion of Soil; Particle Size; Plasticity (optional).

● = optional for non-Caltrans projects

Where applicable:

Cementation; % cobbles & boulders;
Description of cobbles & boulders;
Consistency field test result

EXPLORATION IDENTIFICATION

Explorations are identified using the following convention

H-YY-NNN

Where:

H: Exploration type code

YY: 2-digit year (where utilized)

NNN: Exploration number

Hole Type Code and Description

Hole Type Code	Description
A	Auger Boring (Hollow or solid stem bucket)
BA	Bucket Auger
CPT	Cone Penetration Test
D	Driven (dynamic cone penetrometer)
HA	Hand Auger
HD	Hand driven (1-inch soil tube)
O	Other (note on LOTB)
P	Rotary Percussion Boring (Alr)
R	Rotary drilled boring (Conventional)
RC	Rotary core (self-cased wire-line, continuously sampled)
RW	Rotary cored (self cased wire-line, not continuously sampled)
TP	Test Pit

Description Sequence Examples:

SANDY lean CLAY (CL); very stiff; yellowish brown; moist; mostly fines; some SAND, from fine to medium; few gravels; medium plasticity; PP=2,75.

Well-graded SAND with SILT and GRAVEL and COBBLES (SW-SM); dense; brown; moist; mostly SAND, from fine to coarse; some fine GRAVEL; few fines; weak cementation; 10% GRANITE COBBLES; 3 to 6 inches; hard, subrounded.

Clayey SAND (SC) medium dense, light brown; wet; mostly fine sand; little fines; low plasticity.

FILE PATH: N:\Drafting\Boring Records Legend\Boring Records Legend.dwg
PLOTTED DATE: 6/28/2023 2:49:12 PM - SAVED BY: brendaa

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).



GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	GW Well-graded GRAVEL Well-graded GRAVEL with SAND		CL Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND
	GP Poorly graded GRAVEL Poorly graded GRAVEL with SAND		
	GW-GM Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND		CL-ML SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND
	GW-GC Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
	GP-GM Poorly graded GRAVEL with SILT Poorly graded GRAVEL with SILT and SAND		ML SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND
	GP-GC Poorly graded GRAVEL with CLAY (or SILTY CLAY) Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
	GM SILTY GRAVEL SILTY GRAVEL with SAND		OL ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND
	GC CLAYEY GRAVEL CLAYEY GRAVEL with SAND		
	GC-GM SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND		OL ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND
	SW Well-graded SAND Well-graded SAND with GRAVEL		
	SP Poorly graded SAND Poorly graded SAND with GRAVEL		CH Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND
	SW-SM Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL		
	SW-SC Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		MH Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND
	SP-SM Poorly graded SAND with SILT Poorly graded SAND with SILT and GRAVEL		
	SP-SC Poorly graded SAND with CLAY (or SILTY CLAY) Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		OH ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND
	SM SILTY SAND SILTY SAND with GRAVEL		
	SC CLAYEY SAND CLAYEY SAND with GRAVEL		OH ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY elastic ELASTIC SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND
	SC-SM SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL		
	PT PEAT		OL/OH ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND
	COBBLES COBBLES AND BOULDERS BOULDERS		

FIELD AND LABORATORY TESTING	
C	Consolidation (ASTM D 2435)
CL	Collapse Potential (ASTM D 4546)
CP	Compaction Curve (CTM 216)
CR	Corrosion, Sulfates, Chlorides (CTM 643; CTM 417; CTM 422)
CU	Consolidated Undrained Triaxial (ASTM D 4767)
DS	Direct Shear (ASTM D 3080)
EI	Expansion Index (ASTM D 4829)
M	Moisture Content (ASTM D 2216)
OC	Organic Content (ASTM D 2974)
P	Permeability (CTM 220)
PA	Particle Size Analysis (ASTM D 6913, ASTM D 7928)
PI	Liquid Limit, Plastic Limit, Plasticity Index (AASHTO T 89, AASHTO T 90)
PL	Point Load Index (ASTM D 5731)
PM	Pressure Meter
R	R-Value (CTM 301)
SE	Sand Equivalent (CTM 217)
SG	Specific Gravity (AASHTO T 100)
SL	Shrinkage Limit (ASTM D 427)
SW	Swell Potential (ASTM D 4546)
UC	Unconfined Compression - Soil (ASTM D 2166) Unconfined Compression - Rock (ASTM D 2938)
UU	Unconsolidated Undrained Triaxial (ASTM D 2850)
UW	Unit Weight (ASTM D 2937)
WA	Percent passing the No. 200 Sieve (ASTM D 1140)

SAMPLER GRAPHIC SYMBOLS	
	Standard Penetration Test (SPT)
	Modified California Sampler (2.4" ID, 3" OD)
	Shelby Tube
	Piston Sampler
	NX Rock Core
	HQ Rock Core
	Bulk Sampler
	Other (see remarks)

DRILLING METHOD SYMBOLS			
	Auger Drilling		Rotary Drilling
	Dynamic Cone or Hand Driven		Diamond Core

WATER LEVEL SYMBOLS	
	Static Water Level Reading

Term	Definition	Symbol
Unit Change	Change in geologic unit	_____
Material Change Within Unit	Change of soil classification within geologic unit	-----

FILE PATH: N:\Drafting\Boring Records Legend.dwg
 PLOTTED DATE: 6/28/2023 2:50:02 PM - SAVED BY: brendaa

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).



GROUP DELTA
 EXPLORATION RECORD
 LEGEND #2

CONSISTENCY OF COHESIVE SOILS

Description	Shear Strength (tsf)	Pocket Penetrometer , PP Measurement (tsf)	Torvane, TV, Measurement (tsf)	Vane Shear, VS, Measurement (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2

APPARENT DENSITY OF COHESIONLESS SOILS

Description	SPT N ₆₀ (blows / 12 inches)
Very Loose	0 - 4
Loose	5 - 9
Medium Dense	10 - 29
Dense	30 -50
Very Dense	Greater than 50

CONSISTENCY OF COHESIVE SOILS*

Description	SPT N ₆₀ (blows / 12 inches)
Very Soft	0 - 1
Soft	2 - 3
Medium Stiff	4 - 7
Stiff	8 - 14
Very Stiff	15 - 30
Hard	Greater than 30

* Ref: Peck, Hansen, and Thornburn, 1974, "Foundation Engineering," Second Edition.

Note: Only to be used (with caution) when pocket penetrometer or other data on undrained shear strength are unavailable. Not allowed by Caltrans Soil and Rock Logging and Classification Manual, 2010.

PERCENT OR PROPORTION OF SOILS

Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5 - 10%
Little	15 - 25%
Some	30 - 45%
Mostly	50 - 100%

PARTICLE SIZE

Description	Size (in)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

CEMENTATION

Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure
Moderate	Crumbles or breaks with considerable finger pressure
Strong	Will not crumble or break with finger pressure

PLASTICITY

Description	Criteria
Nonplastic	A 1/8-in. thread cannot be rolled at any water content
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.

MOISTURE




Description	Criteria
Dry	No discernable moisture
Moist	Moisture present but no free water
Wet	Visible free water

FILE PATH: N:\Drafting\Boring Records Legend\Boring Records Legend.dwg
 PLOTTED DATE: 6/28/2023 2:51:20 PM. SAVED BY: brendaa

REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010), with the exception of consistency of cohesive soils vs. N₆₀.



GROUP DELTA
 EXPLORATION RECORD
 LEGEND #3

LEGEND OF ROCK MATERIALS	
	Igneous Rock
	Sedimentary Rock
	Metamorphic Rock

BEDDING SPACING	
Description	Thickness / Spacing
Massive	Greater than 10ft
Very Thickly Bedded	3 ft - 10 ft
Thickly Bedded	1 ft - 3 ft
Moderately Bedded	4 in - 1 ft
Thinly Bedded	1 in - 4 in
Very Thinly Bedded	1/4 in - 1 in
Laminated	Less than 1/4 in

WEATHERING DESCRIPTORS FOR INTACT ROCK						
Diagnostic Features						
Description	Chemical Weathering - Discoloration - Oxidation		Mechanical Weathering and Grain Boundary Conditions	Texture and Leaching		General Characteristics
	Body of Rock	Fracture Surfaces		Texture	Leaching	
Fresh	No discoloration, no oxidized	No discoloration or oxidation	No separation, intact (tight)	No change	No leaching	Hammer rings when crystalline rocks are struck
Slightly Weathered	Discoloration or oxidation is limited to surface of, or short distance from, fractures; some feldspar crystals are dull	Minor to complete discoloration or oxidation of most surfaces	No visible separation, intact (tight)	Preserved	Minor leaching of some soluble minerals	Hammer does not ring when rock is struck. Body of rock not weakened
Moderately Weathered	Discoloration or oxidation extends from fractures usually throughout; Fe-Mg minerals are "rusty"; feldspar crystals are "cloudy"	All fracture surfaces are discolored or oxidized	Partial separation of boundaries visible	Generally Preserved	Soluble minerals may be mostly leached	Hammer does not ring when rock is struck. Body of rock is slightly weakened
Intensely Weathered	Discoloration or oxidation throughout; all feldspars and Fe-Mg minerals are altered to clay to some extent; or chemical alteration produces in situ disaggregation, grain boundary conditions	All fracture surfaces are discolored or oxidized; surfaces friable	Partial separation, rock is friable; in semi-arid conditions, granitics are disaggregated	Texture altered by chemical disintegration (hydration, argillation)	Leaching of soluble minerals may be complete	Dull sound when struck with hammer; usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as incipient or hairline fractures of veinlets. Rock is significantly weakened.
Decomposed	Discolored or oxidized throughout, but resistant minerals such as quartz may be unaltered; all feldspars and Fe-Mg minerals are completely altered to clay		Complete separation of grain boundaries (disaggregated)	Resembles a soil; partial or complete remnant rock structure may be preserved; leaching of soluble minerals usually complete		Can be granulated by hand. Resistant minerals such as quartz may be present as "stringers" or "dikes"

PERCENT CORE RECOVERY (REC)

$$\frac{\sum \text{LENGTH OF THE RECOVERED CORE PIECES (IN.)}}{\text{TOTAL LENGTH OF CORE RUN (IN.)}} \times 100$$

PERCENT CORE RECOVERY (REC)

$$\frac{\sum \text{LENGTH OF THE INTACT CORE PIECES} \geq 4 \text{ IN.}}{\text{TOTAL LENGTH OF CORE RUN (IN.)}} \times 100$$

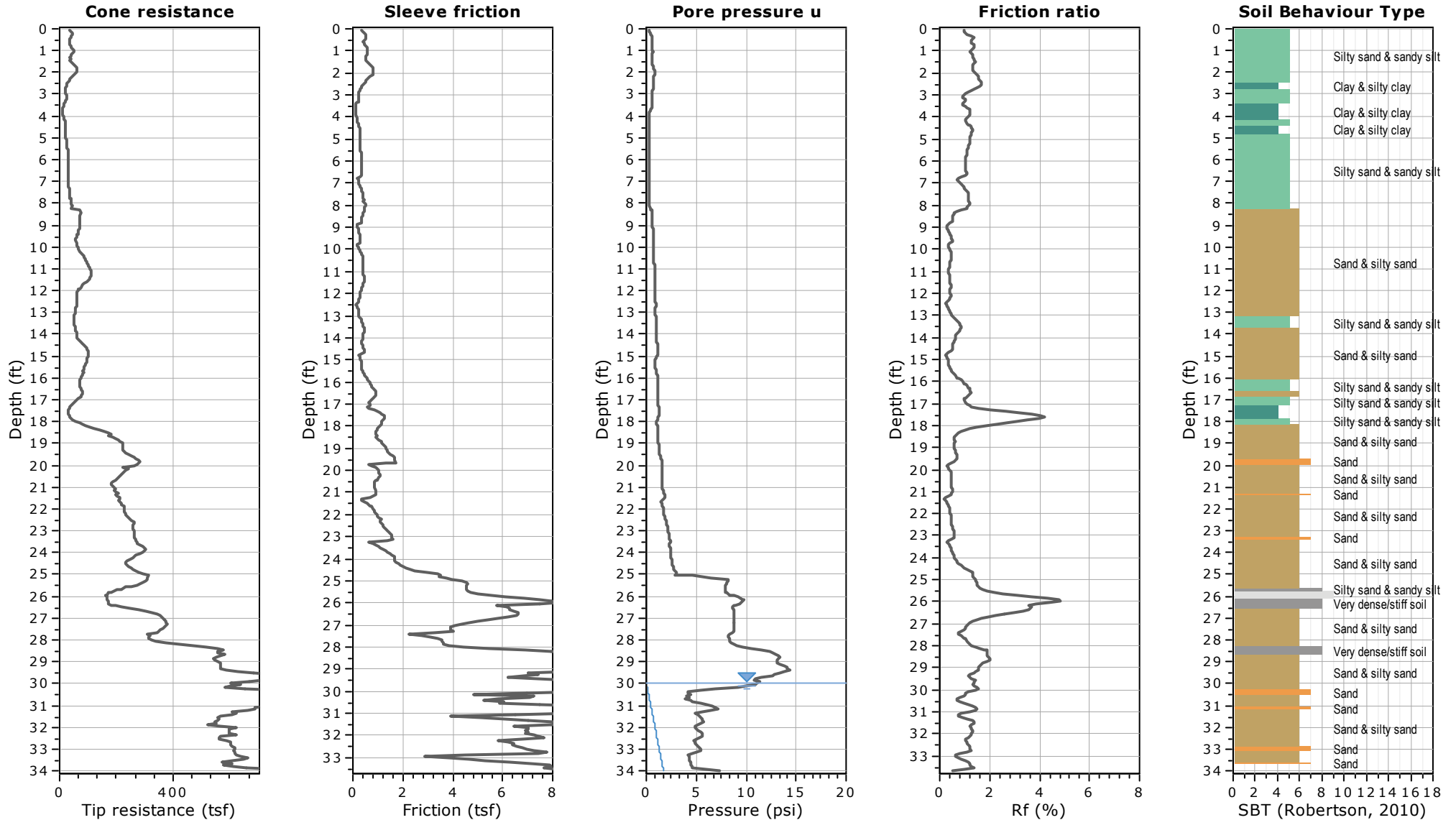
RQD* INDICATES SOUNDNESS CRITERIA NOT MET

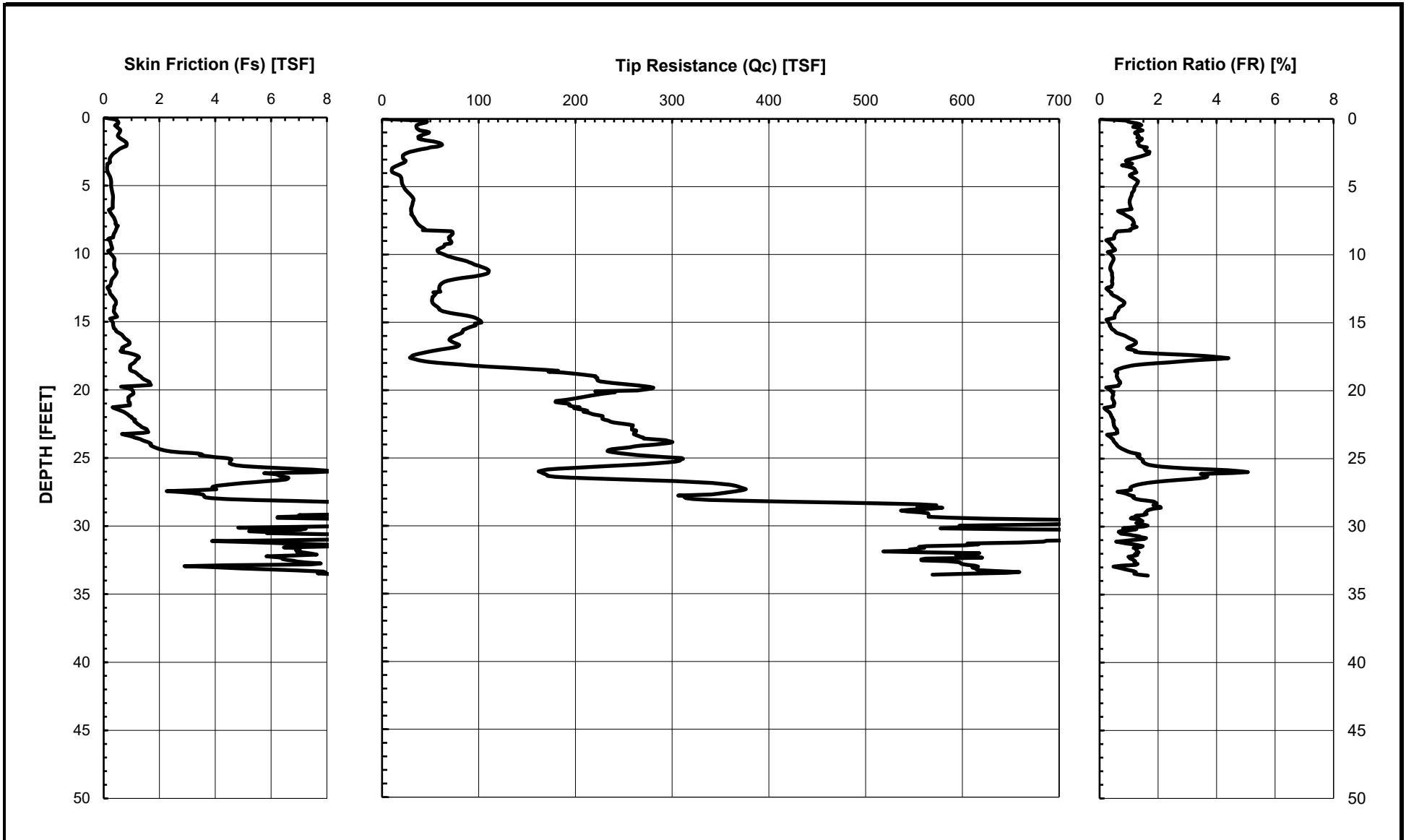
ROCK HARDNESS	
Description	Criteria
Extremely Hard	Cannot be scratched with a pocketknife or sharp pick. Can only be chipped with repeated heavy hammer blows.
Very Hard	Cannot be scratched with a pocketknife or sharp pick. Breaks with repeated heavy hammer blows.
Hard	Can be scratched with a pocketknife or sharp pick with difficulty (heavy pressure). Breaks with heavy hammer blows.
Moderately Hard	Can be scratched with a pocketknife or sharp pick with light or moderate pressure. Breaks with moderate hammer blows.
Moderately Soft	Can be grooved 1/16 in. deep with a pocketknife or sharp pick with moderate or heavy pressure. Breaks with light hammer blow or heavy manual pressure.
Soft	Can be grooved or gouged easily with a pocketknife or sharp pick with light pressure, can be scratched with fingernail. Breaks with light moderate manual pressure.
Very Soft	Can be readily indented, grooved or gouged with fingernail, or carved with a pocketknife. Breaks with light manual pressure.

FRACTURE DENSITY	
Description	Observed Fracture Density
Unfractured	No fractures
Very Slightly Fractured	Core lengths greater than 3 ft
Slightly Fractured	Core lengths mostly from 1 to 3 ft
Moderately Fractured	Core lengths mostly 4 in. to 1 ft.
Intensely Fractured	Core lengths mostly from 1 to 4 in.
Very Intensely Fractured	Mostly chips and fragments.



REFERENCE: Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).





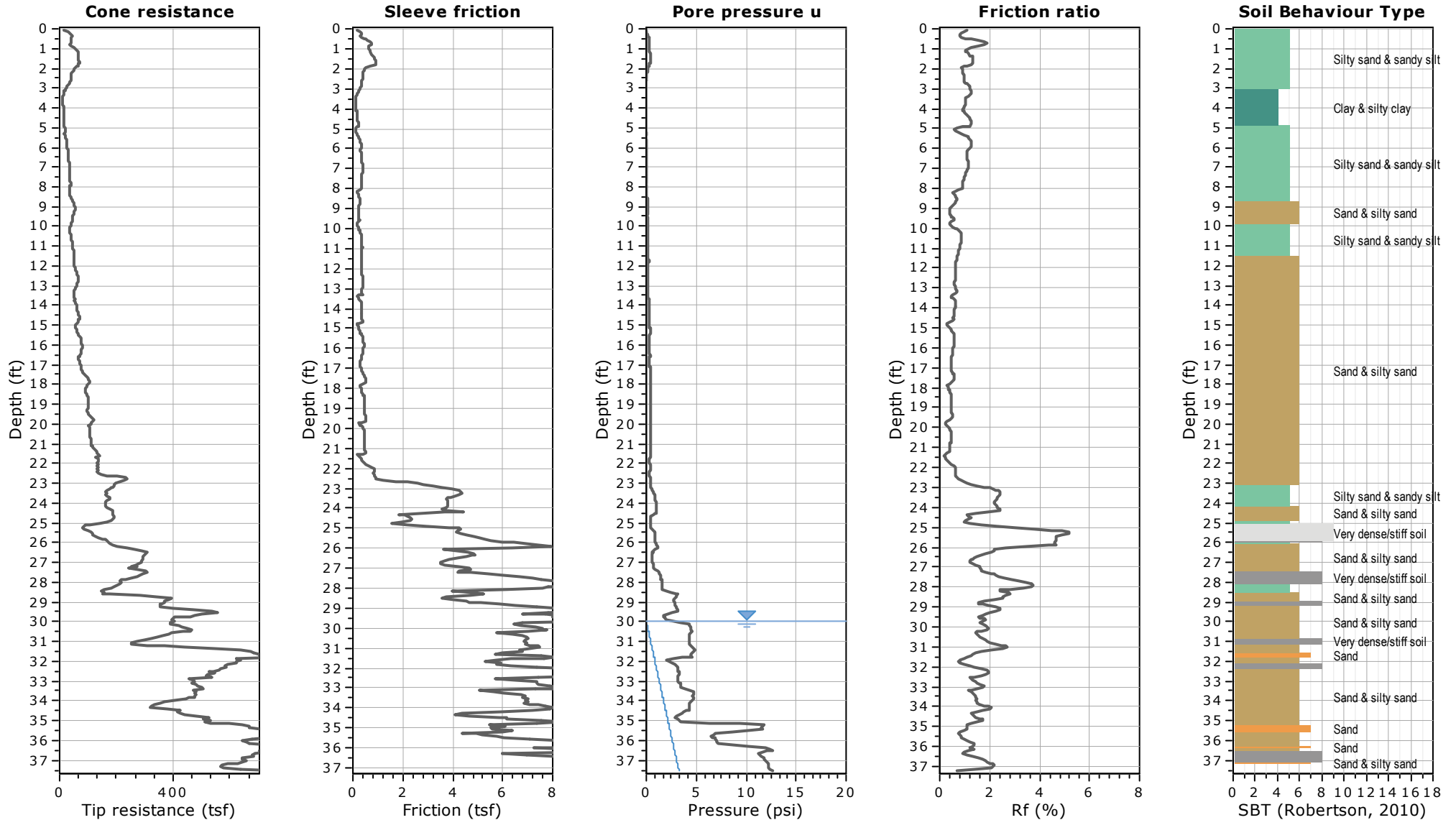
GROUP DELTA

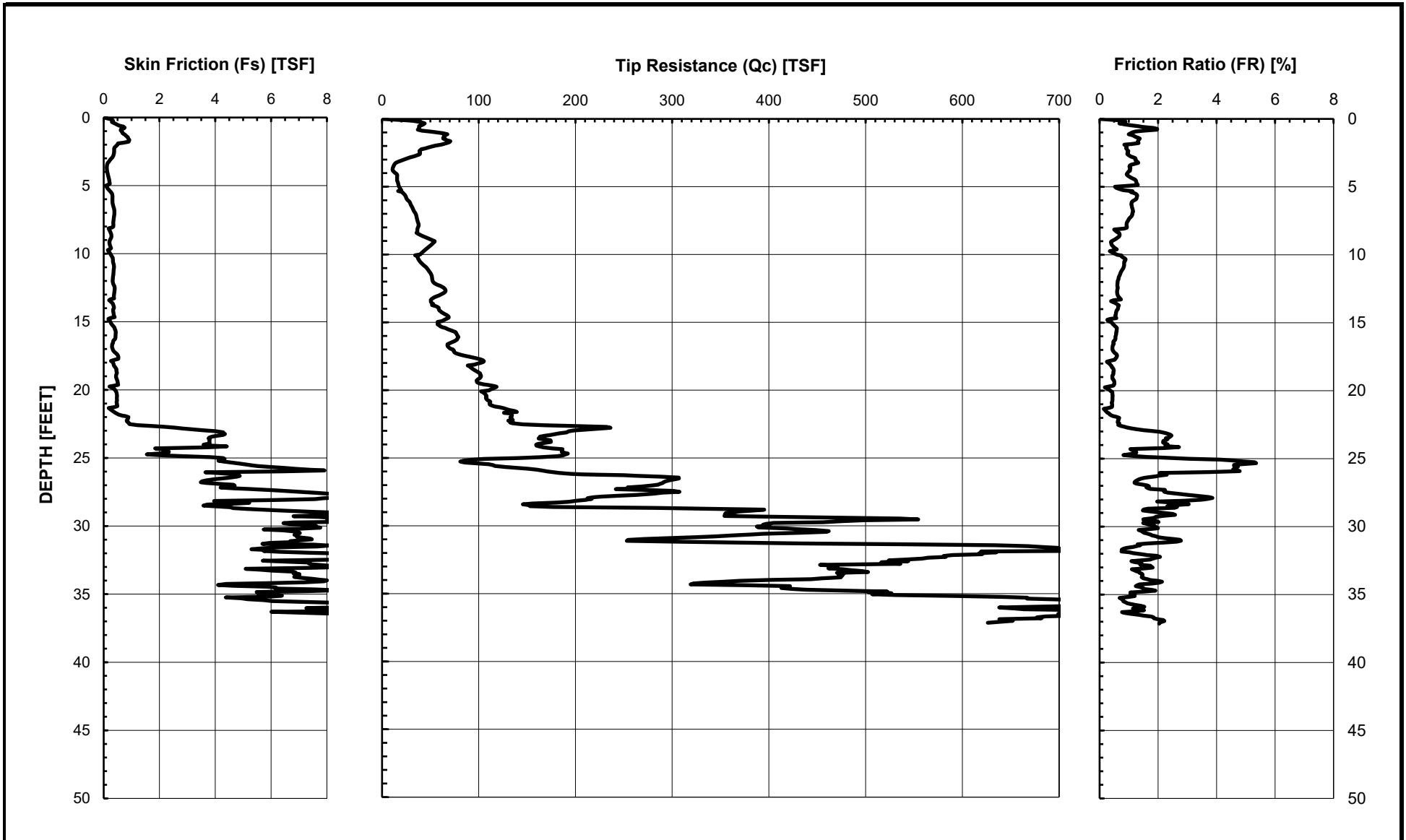
CONE PENETOMETER DATA (CPT-1)

Document No. 24-0011

Project No. SD809

FIGURE A-1b





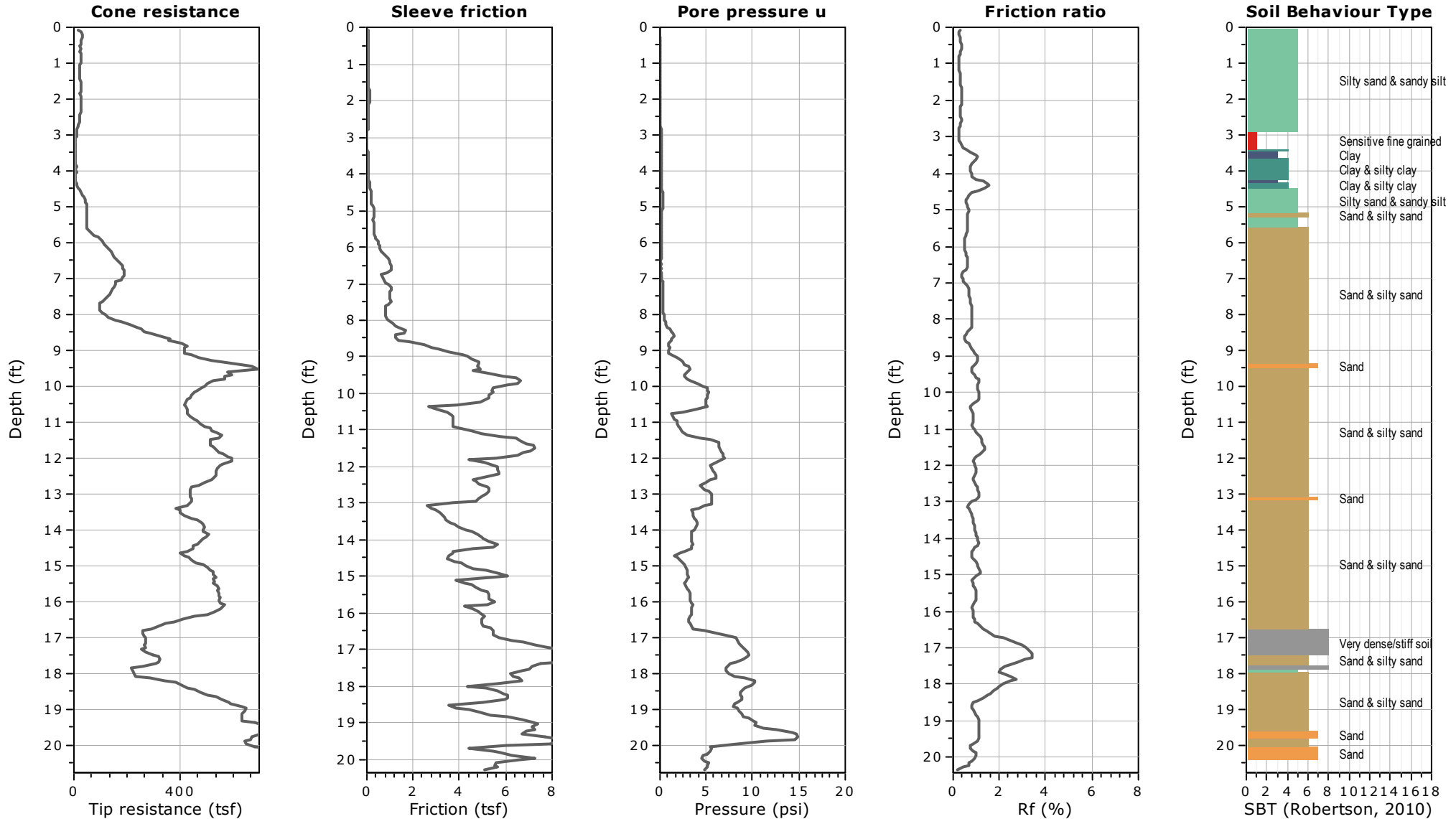
GROUP DELTA

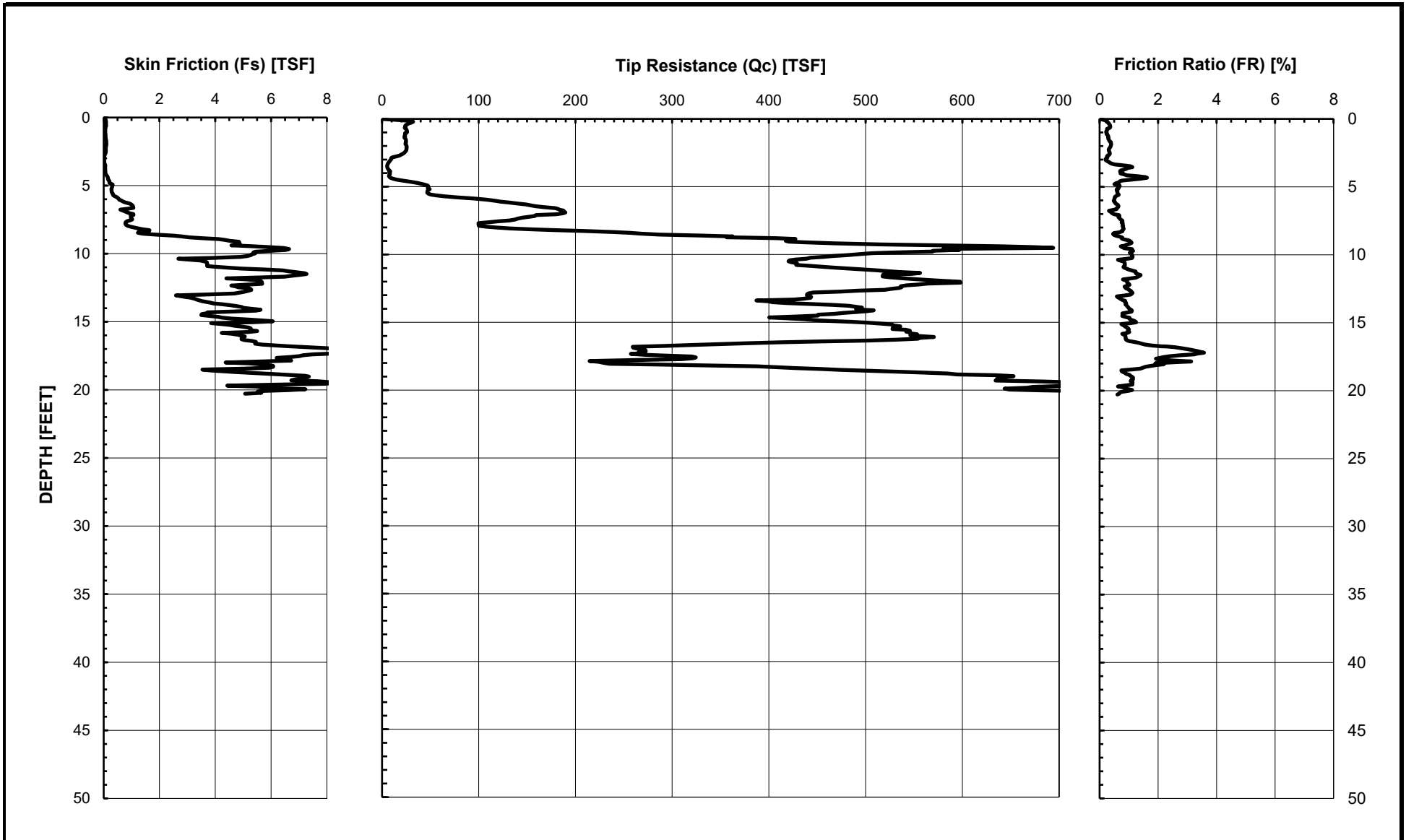
CONE PENETROMETER DATA (CPT-2)

Document No. 24-0011

Project No. SD809

FIGURE A-2b





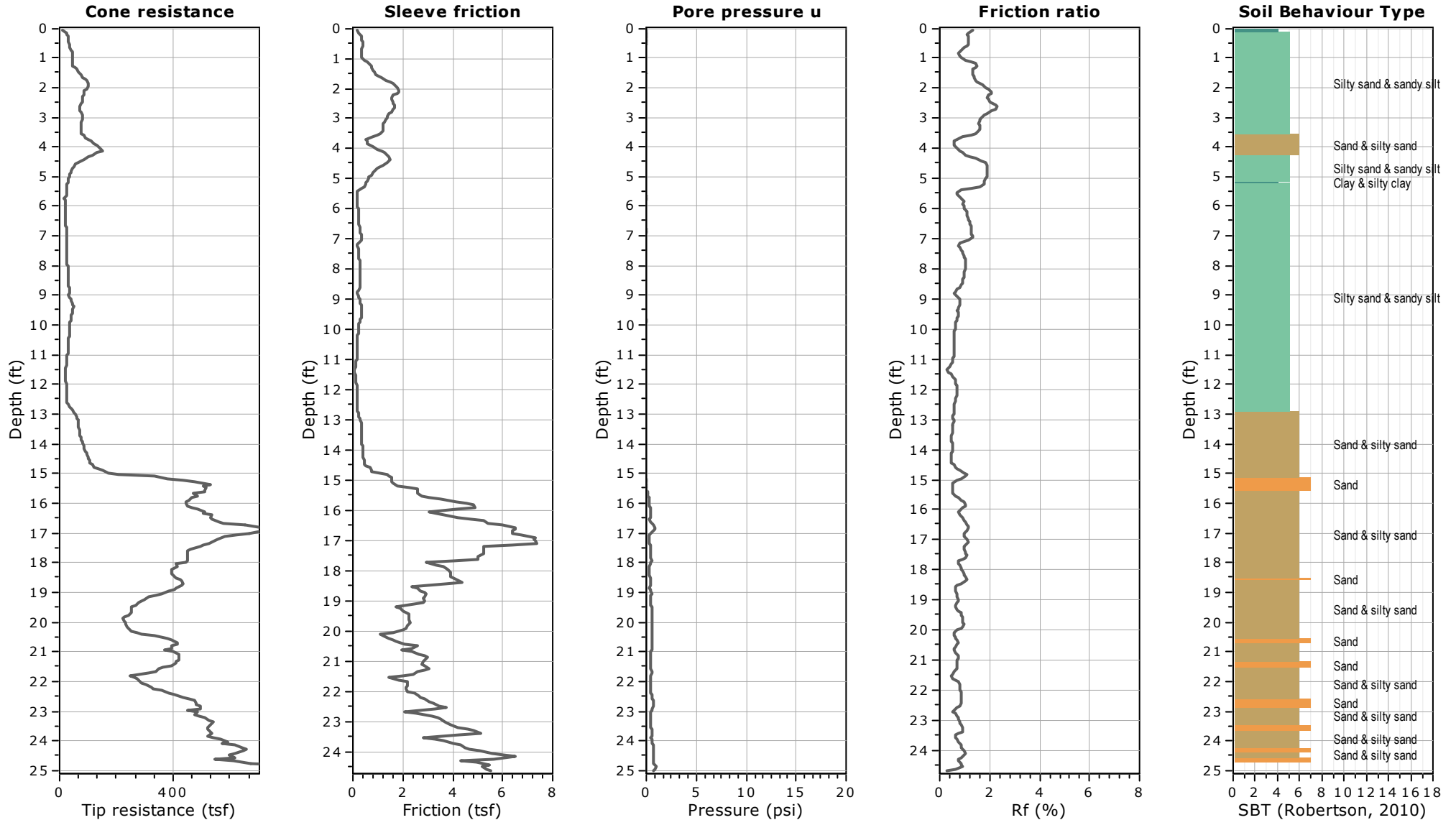
GROUP DELTA

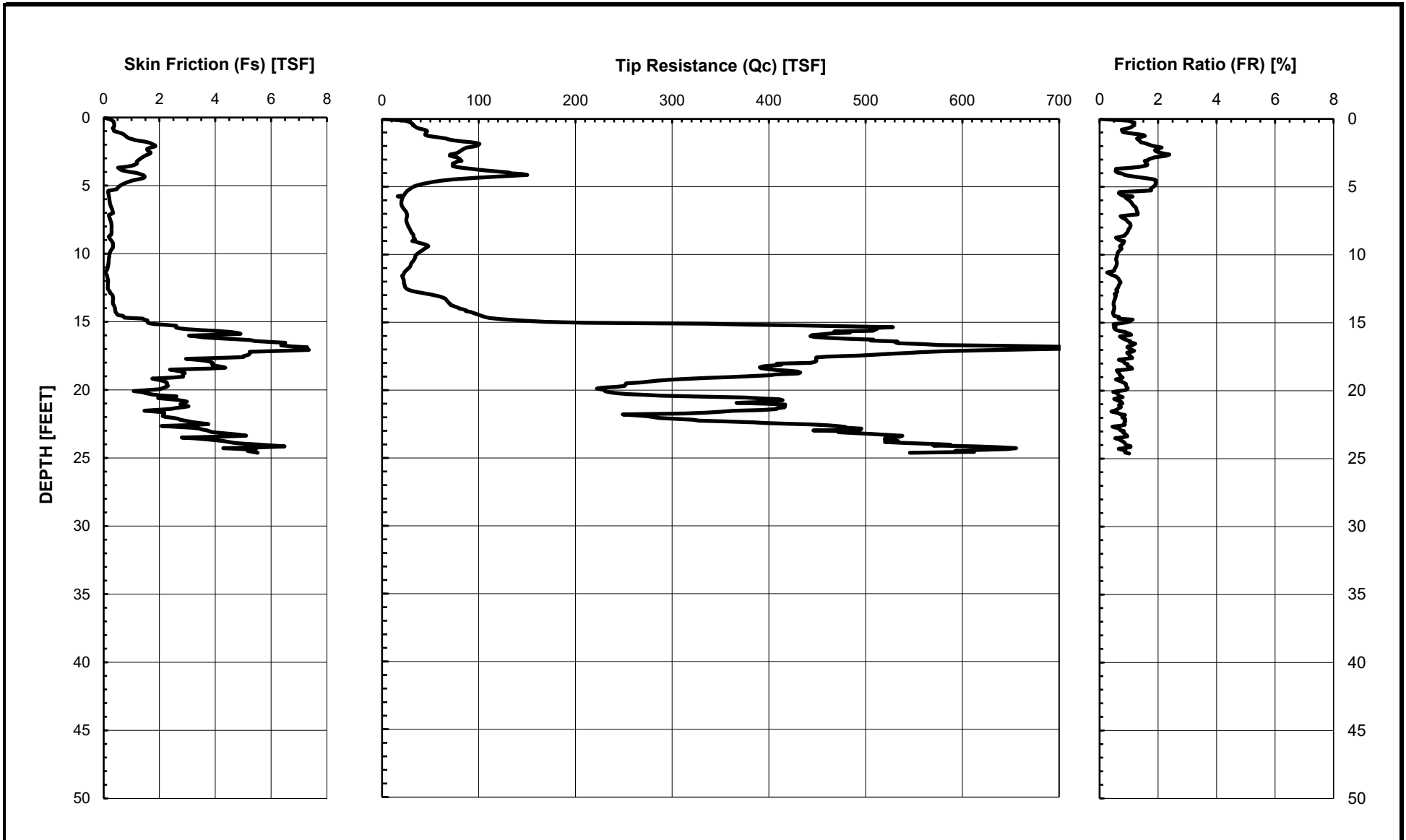
CONE PENETROMETER DATA (CPT-3)

Document No. 24-0011

Project No. SD809

FIGURE A-3b





GROUP DELTA

CONE PENETOMETER DATA (CPT-4)

Document No. 24-0011

Project No. SD809

FIGURE A-4b

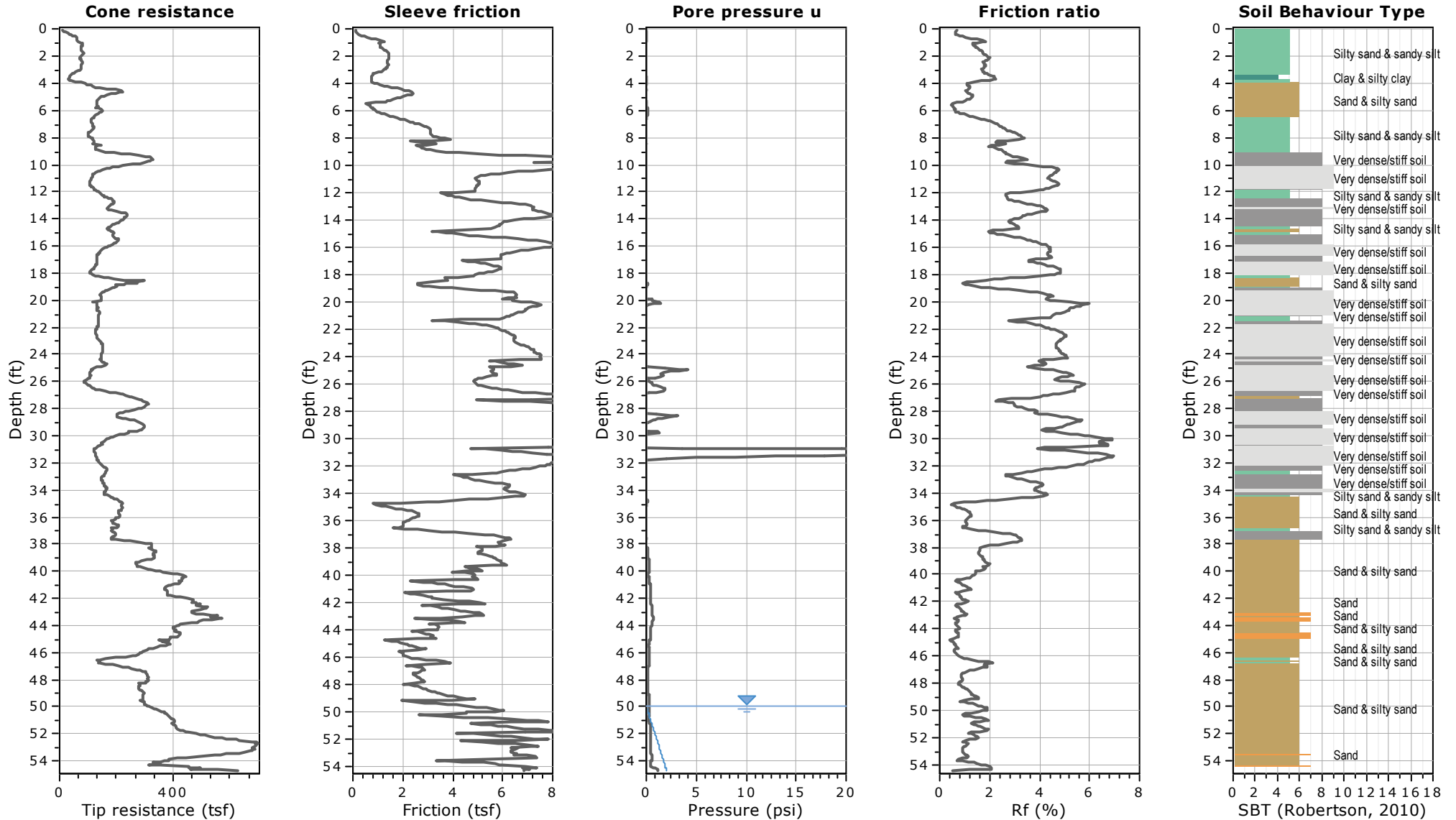


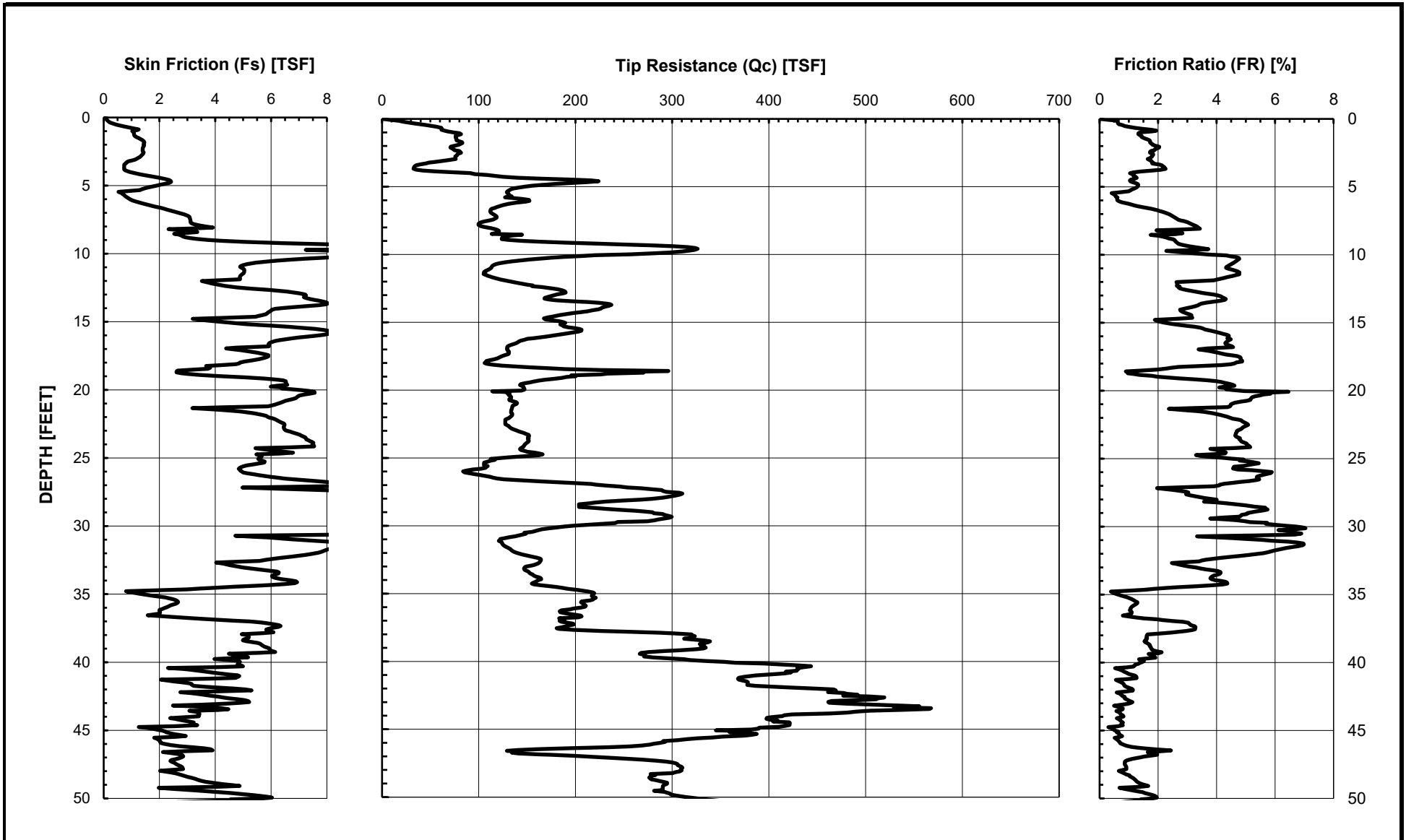
Group Delta Consultants
 9245 Activity Road, Suite 103
 San Diego, California 92126
 www.GroupDelta.com

Project: Riverside Community Hospital
Location: 4468 Brockton Avenue, Riverside, California 92501

CPT-5

Total depth: 54.73 ft, Date: 3/22/2024
 Surface Elevation: 839.00 ft





GROUP DELTA

CONE PENETROMETER DATA (CPT-5)

Document No. 24-0011

Project No. SD809

FIGURE A-5b





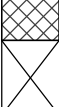


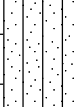


Group Delta Consultants
Riverside Community Hospital
Riverside, CA

CPT Shear Wave Measurements

Location	Tip Depth (ft)	Geophone Depth (ft)	Travel Distance (ft)	S-Wave Arrival (msec)	S-Wave Velocity from Surface (ft/sec)	Interval S-Wave Velocity (ft/sec)
CPT-1	5.02	4.02	4.49	5.86	766	
	10.04	9.04	9.26	13.64	679	613
	15.03	14.03	14.17	20.74	683	692
	20.01	19.01	19.11	27.28	701	756
	25.03	24.03	24.11	31.36	769	1225
	30.02	29.02	29.09	35.44	821	1220
	33.92	32.92	32.98	37.44	881	1946
CPT-2	5.02	4.02	4.49	4.24	1059	
	10.01	9.01	9.23	13.50	684	512
	15.03	14.03	14.17	19.80	716	785
	20.01	19.01	19.11	26.12	732	782
	25.03	24.03	24.11	32.00	754	850
	30.02	29.02	29.09	35.22	826	1545
	35.01	34.01	34.07	37.78	902	1945
CPT-5	5.02	4.02	4.49	2.46	1825	
	10.01	9.01	9.23	5.94	1554	1362
	15.06	14.06	14.20	8.96	1585	1646
	20.05	19.05	19.15	13.04	1469	1214
	25.03	24.03	24.11	16.26	1483	1540
	30.02	29.02	29.09	20.44	1423	1190
	35.01	34.01	34.07	24.28	1403	1297
	39.99	38.99	39.04	26.98	1447	1842
	45.01	44.01	44.06	31.46	1400	1119
	50.03	49.03	49.07	35.20	1394	1341
	54.69	53.69	53.73	38.74	1387	1315

Shear Wave Source Offset - 2 ft

S-Wave Velocity from Surface = Travel Distance/S-Wave Arrival
Interval S-Wave Velocity = (Travel Dist2-Travel Dist1)/(Time2-Time1)

BORING RECORD				PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-01			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger			LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 36.5	GROUND ELEV (ft) 800	DEPTH/ELEV. GROUNDWATER (ft) ▼ / na				
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			B-1						PA			FILL: SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic. (1% Gravel; 60% Sand; 39% Fines)
5	795		S-2	2 4 4	8	10				5		YOUNG ALLUVIUM: SILTY SAND (SM); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic.
10	790		R-3	3 5 7	12	10	9.9	107		10		POORLY-GRADED SAND WITH SILT (SP-SM); medium dense; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; little fines; trace GRAVEL; nonplastic; micaceous.
15	785		S-4	3 4 5	9	11				15		WELL-GRADED SAND WITH SILT (SW-SM); medium dense; light yellowish brown (10YR 6/4) to dark yellowish brown (10YR 4/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous.
20	780		R-5	7 11 15	26	21	22.4	102	PA PI C	20		LEAN CLAY (CL); very stiff; yellowish brown (10YR 4/6); moist; mostly fines; little fine SAND; low plasticity. (0% Gravel; 11% Sand; 89% Fines) (LL~37; PL~19; PI~18)
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-6 a

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-01		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 36.5		GROUND ELEV (ft) 800		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			S-6	5 9 10	19	23						YOUNG ALLUVIUM: SANDY LEAN CLAY (CL); very stiff; yellowish brown (10YR 5/6); moist; mostly fines; little fine SAND; low plasticity. PP~2 TSF
30	770		R-7	8 13 20	33	27	16.0	117		30		CLAYEY SAND (SC); medium dense; yellowish brown (10YR 5/4); moist; mostly fine to coarse SAND; some fines; low plasticity.
35	765		S-8	3 9 18	27	33				35		OLD ALLUVIUM: SANDY LEAN CLAY (CL); hard; yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; low plasticity; micaceous.
40	760											Total Depth: 36½ Feet Groundwater Not Encountered
45	755											






GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

GROUP DELTA CONSULTANTS, INC.
 9245 Activity Road, Suite 103
 San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE

A-6 b

BORING RECORD				PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-02			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/1/2024		FINISH 4/1/2024		SHEET NO. 1 of 3		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger			LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5	GROUND ELEV (ft) 798	DEPTH/ELEV. GROUNDWATER (ft) ▼ 36.0 / 762.0				
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
												PAVEMENT: 2-inches Asphalt Concrete.
	795		B-1									FILL: SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace fine GRAVEL; nonplastic; micaceous.
5			S-2	1 2 2	4	5						YOUNG ALLUVIUM: SILTY SAND (SM); loose; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; little fines; trace fine GRAVEL; nonplastic.
	790											
10			R-3	2 5 5	10	9	3.2	109	PA DS			(3% Gravel; 83% Sand; 14% Fines)
	785											
15			S-4	1 2 3	5	7						
	780											
20			R-5	4 12 15	27	24	22.6	106	PA PI C			LEAN CLAY (CL); hard; dark yellowish brown (10YR 4/4); moist; mostly fines; trace fine SAND; medium plasticity. (0% Gravel; 3% Sand; 97% Fines) (LL~46; PL~22; PI~24)
	775											

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24


GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.


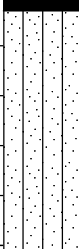


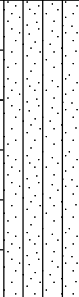




FIGURE
A-7 a

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-02			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/1/2024		FINISH 4/1/2024		SHEET NO. 2 of 3			
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5		GROUND ELEV (ft) 798		DEPTH/ELEV. GROUNDWATER (ft) ▼ 36.0 / 762.0			
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N									
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	
	770	X	S-6	4 4 6	10	13						YOUNG ALLUVIUM: SANDY LEAN CLAY (CL); very stiff; dark yellowish brown (10YR 3/6); moist; mostly fines; little fine SAND; medium plasticity. PP ~ 3 TSF	
30	765	X	R-7	8 17 22	39	35	11.0	123		30		OLD ALLUVIUM: CLAYEY SAND (SC); dense; dark yellowish brown (10YR 4/4); moist; mostly fine to coarse SAND; some fines; trace GRAVEL; medium plasticity.	
35	760	X	S-8	4 8 14	22	29				35		CLAYEY SAND (SC); medium dense to dense; dark yellowish brown (10YR 4/4); saturated; mostly fine to coarse SAND; some fines; trace GRAVEL; medium plasticity.	
40	755	X	R-9	15 24 30	54	48	12.6	119		40		SILTY SAND (SM); dense; dark yellowish brown (10YR 4/6); saturated; mostly fine to medium SAND; some fines; trace fine GRAVEL; nonplastic.	
45	750	X	R-10			---				45		SANDY LEAN CLAY (CL); stiff; dark yellowish brown (10YR 3/6); saturated; mostly fines; little fine SAND; medium plasticity.	
												WELL-GRADED SAND WITH SILT (SW-SM); dense; very pale brown (10YR 8/4) to brownish yellow (10YR 6/6), saturated; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous. Samples highly disturbed by rapid groundwater flow into the bottom of the hollow-stem auger.	
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-7 b	

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-02		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/1/2024		FINISH 4/1/2024		SHEET NO. 3 of 3		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5		GROUND ELEV (ft) 798		DEPTH/ELEV. GROUNDWATER (ft) ▼ 36.0 / 762.0		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	745	X	S-11			--				55		<p>OLD ALLUVIUM: WELL-GRADED SAND (SW); dense; light yellowish brown (10YR 6/4); saturated; mostly fine to medium SAND; few fines; nonplastic.</p> <p>Total Depth: 51½ Feet Groundwater Depth: 36 Feet</p> <p>Groundwater initially observed at 46 feet when the bottom of the borehole heaved.</p>
	55									60		
	740									60		
	60									65		
	735									65		
	65									70		
	730									70		
	70									70		
	725									70		
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126				THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.							FIGURE A-7 c	

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-03			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/2/2024		FINISH 4/2/2024		SHEET NO. 1 of 2			
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 36.5		GROUND ELEV (ft) 798		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na			
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N									
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	
												PAVEMENT: 2-inches Asphalt Concrete.	
5	795		B-1						PA EI CR	5		FILL: SILTY SAND (SM); loose to medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; trace GRAVEL; nonplastic; micaceous. (4% Gravel; 49% Sand; 47% Fines)	
			R-2	6 11 13	24	21	3.1	104					
10	790		S-3	4 6 6	12	16				10		YOUNG ALLUVIUM: SILTY SAND (SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little fines; nonplastic.	
15	785		R-4	5 11 12	23	20	4.2	106		15		WELL-GRADED SAND WITH SILT (SW-SM); medium dense; very pale brown (10 YR 7/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous.	
20	780		S-5	6 8 7	15	20				20		Few GRAVEL.	
	775												
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126									THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.			FIGURE A-8 a	

GDC_LOG_BORING_MM_X_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-03		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/2/2024		FINISH 4/2/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 36.5		GROUND ELEV (ft) 798		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			R-6	11 30 40	70	62	6.2	114				OLD ALLUVIUM: WELL-GRADED SAND WITH SILT (SW-SM); very dense; very pale brown (10YR 7/3) to dark yellowish brown (10YR 4/6); moist; mostly fine to coarse SAND; few fines; nonplastic; micaceous.
30	770		S-7	7 12 14	26	35				30		CLAYEY SAND (SC); dense; dark yellowish brown (10YR 4/6); moist; mostly fine to medium SAND; some fines; trace GRAVEL; low plasticity; micaceous.
35	765		R-8	11 19 36	55	49	11.6	122		35		WELL-GRADED SAND WITH SILT (SW-SM); dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little fines; trace GRAVEL; nonplastic; micaceous
	760											Total Depth: 36½ Feet Groundwater Not Encountered
40	755									40		
45	750									45		

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-8 b

BORING RECORD				PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-04			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger			LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31	GROUND ELEV (ft) 794	DEPTH/ELEV. GROUNDWATER (ft) ▼ / na				
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			B-1									FILL: SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to coarse SAND; some fines; nonplastic.
5	790		R-2	3 4 4	8	7	9.4	112	PA DS	5		YOUNG ALLUVIUM: SILTY SAND (SM); loose; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; nonplastic. (0% Gravel; 65% Sand; 35% Fines)
10	785		S-3	2 2 2	4	5				10		CLAYEY SAND (SC); loose; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic.
15	780		R-4	5 9 11	20	16	2.6	111		15		WELL-GRADED SAND WITH SILT (SW-SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; few fines; trace fine GRAVEL; nonplastic.
20	775		S-5	14 27 43	70	86				20		OLD ALLUVIUM: WELL-GRADED SAND WITH GRAVEL (SW); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; little GRAVEL; few fines; nonplastic; micaceous.
	770											

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-9 a

BORING RECORD			PROJECT NAME Riverside Community Hospital	PROJECT NUMBER SD809	BORING B-04							
SITE LOCATION Proposed Parking Garage and Tower Sites			START 4/4/2024	FINISH 4/4/2024	SHEET NO. 2 of 2							
DRILLING COMPANY Yellow Jacket Drilling			DRILLING METHOD Hollow Stem Auger	LOGGED BY JWJ	CHECKED BY MAF							
DRILLING EQUIPMENT CME 75 Limited Access Rig #142			BORING DIA. (in) 8	TOTAL DEPTH (ft) 31	GROUND ELEV (ft) 794	DEPTH/ELEV. GROUNDWATER (ft) ▼ / na						
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)			NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N									
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
		☒	R-6	40 50 (4")	100+	100+					☐	<p>OLD ALLUVIUM: WELL-GRADED SAND WITH GRAVEL (SW); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; little GRAVEL; few fines; nonplastic; micaceous.</p>
30	765	☒	S-7	16 50	76	93				30	☐	
												<p>Total Depth: 31 Feet Groundwater Not Encountered</p>
35	760											
40	755											
45	750											
	745											
GROUP DELTA CONSULTANTS, INC.				THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.				FIGURE				
9245 Activity Road, Suite 103 San Diego, California 92126								A-9 b				

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-05		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31.5		GROUND ELEV (ft) 796		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
795			B-1									FILL: SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic. Contains trash and demolition debris.
5	790		R-2	1 2 4	6	5	12.6	106	PA	5		YOUNG ALLUVIUM: SANDY SILT (ML); loose; dark yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; nonplastic; micaceous. (0% Gravel; 33% Sand; 67% Fines)
10	785		S-3	6 7 10	17	21				10		CLAYEY SAND (SC); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; low plasticity; micaceous.
15	780		R-4	10 32 60	92	75	6.5	127		15		OLD ALLUVIUM: CLAYEY SAND WITH GRAVEL (SC); very dense; yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; some fines; little GRAVEL; nonplastic; micaceous.
20	775		S-5	10 13 20	33	41				20		WELL-GRADED SAND WITH CLAY (SW-SC); dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/8); moist; mostly fine to coarse SAND; little fines; few GRAVEL; nonplastic; micaceous.
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-10 a

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-05		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31.5		GROUND ELEV (ft) 796		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	770		R-6	9 17 22	39	32	13.5	109				OLD ALLUVIUM: WELL-GRADED SAND WITH GRAVEL (SW); dense; very pale brown (10YR 8/2) to yellowish brown (10YR 5/4); moist; mostly fine to medium SAND; some GRAVEL; few fines; nonplastic; micaceous.
30	765		S-7	10 27 50	77	95				30		Very pale brown (10YR 8/3) to light yellowish brown (10YR 6/4); very dense.
												Total Depth: 31½ Feet Groundwater Not Encountered
35	760									35		
40	755									40		
45	750									45		

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

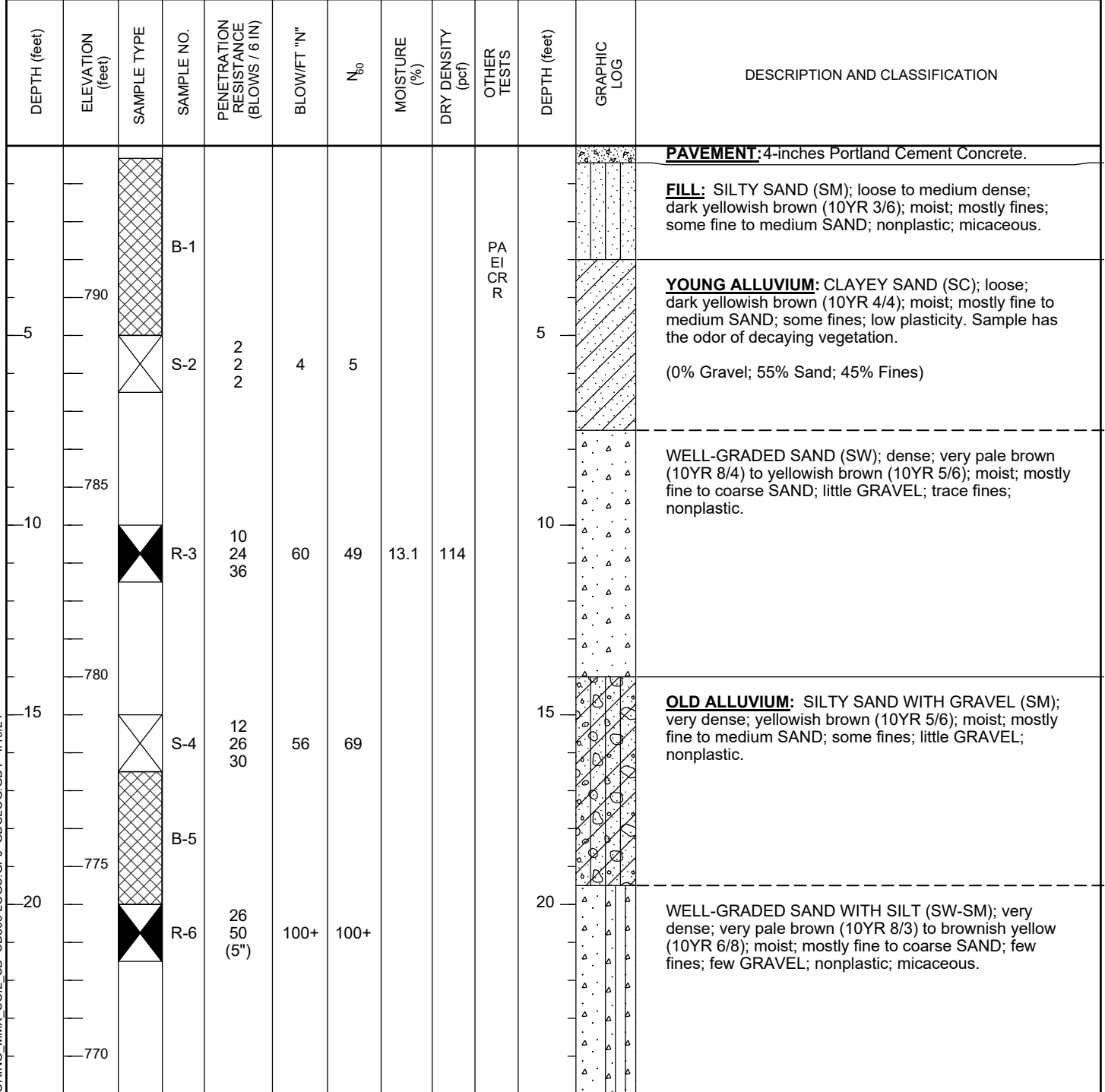
GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-10 b



BORING RECORD	PROJECT NAME Riverside Community Hospital	PROJECT NUMBER SD809	BORING B-06
SITE LOCATION Proposed Parking Garage and Tower Sites	START 4/3/2024	FINISH 4/4/2024	SHEET NO. 1 of 2
DRILLING COMPANY Yellow Jacket Drilling	DRILLING METHOD Hollow Stem Auger	LOGGED BY JWJ	CHECKED BY MAF
DRILLING EQUIPMENT CME 75 Limited Access Rig #142	BORING DIA. (in) 8	TOTAL DEPTH (ft) 31.5	GROUND ELEV (ft) 794
			DEPTH/ELEV. GROUNDWATER (ft) ▼ / na

SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)	NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N
--	---



GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126	THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.	FIGURE A-11 a
--	--	-------------------------


GDC_LOG_BORING_MM_X_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-06		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/3/2024		FINISH 4/4/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31.5		GROUND ELEV (ft) 794		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
30	765		S-7	7 25 25	50	62				30		OLD ALLUVIUM: SILTY SAND WITH GRAVEL (SM); very dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; little GRAVEL; nonplastic.
			B-8									Total Depth: 31½ Feet Groundwater Not Encountered
35	760									35		
40	755									40		
45	750									45		
	745											
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-11 b

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-07		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 28		GROUND ELEV (ft) 794		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			B-1									FILL: CLAYEY SAND (SC); loose to medium dense; dark yellowish brown (10YR 3/6); moist to wet; mostly fine to medium SAND; some fines; little GRAVEL; low plasticity.
5	790		S-2	2 3 5	8	10				5		YOUNG ALLUVIUM: SILTY SAND (SM); loose to medium dense; yellowish brown (10YR 4/6); moist; mostly fine SAND; some fines; micaceous; nonplastic.
10	785		R-3	2 4 5	9	7	15.7	113	PA	10		SANDY SILT (ML); loose; dark yellowish brown (10YR 4/6); moist; mostly fines; some fine to medium SAND; trace GRAVEL; nonplastic; micaceous. (1% Gravel; 39% Sand; 60% Fines)
15	780		S-4	3 7 15	22	27				15		WELL-GRADED SAND WITH SILT (SW-SM); medium dense; very pale brown (10YR 7/3) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; trace fines; trace GRAVEL; nonplastic.
20	775		R-5	16 34 50	84	69	5.6	116		20		OLD ALLUVIUM: WELL-GRADED SAND (SW); very dense; very pale brown (10YR 8/3) to brownish yellow (10YR 6/8); moist; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous.
	770											
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-12 a

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-07		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/4/2024		FINISH 4/4/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 28		GROUND ELEV (ft) 794		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
		X	S-6	21 29 20	49	60				30		<p>OLD ALLUVIUM; WELL-GRADED SAND (SW); very dense; very pale brown (10YR 8/3) to brownish yellow (10YR 6/8); moist; mostly fine to coarse SAND; few GRAVEL; trace fines; nonplastic; micaceous.</p>
	765									30		<p>Total Depth: 28 Feet Groundwater Not Encountered</p>
										35		
	760									35		
										40		
	755									40		
										45		
	750									45		
										45		
	745									45		
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126				THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.						FIGURE A-12 b		

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD					PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-08		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/1/2024		FINISH 4/1/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 30		GROUND ELEV (ft) 794		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)					NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N							
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			B-1									FILL: SILTY SAND (SM); loose to medium dense; brown (10YR 4/3); moist; mostly fine to coarse SAND; some fines; little GRAVEL; nonplastic; micaceous. (14% Gravel; 44% Sand; 42% Fines)
5	790		S-2	2 4 4	8	11				5		YOUNG ALLUVIUM: POORLY-GRADED SAND WITH SILT (SP-SM); medium dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; few fines; trace GRAVEL; nonplastic; micaceous.
10	785		R-3	3 4 7	11	10	7.2	116		10		
15	780		S-4	19 50 (5")	79	100+				15		OLD ALLUVIUM: WELL-GRADED SAND WITH SILT (SW-SM); very dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; few fines; trace GRAVEL; nonplastic; micaceous.
20	775		R-5	15 35 50	85	75	5.3	107		20		WELL-GRADED SAND (SW); very dense; very pale brown (10YR 8/4) to yellowish brown (10YR 5/6); moist; mostly fine to coarse SAND; little GRAVEL; trace fines; nonplastic; micaceous.
	770											

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

GROUP DELTA CONSULTANTS, INC.
 9245 Activity Road, Suite 103
 San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
 A-13 a

BORING RECORD							PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-08	
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/1/2024		FINISH 4/1/2024		SHEET NO. 2 of 2			
DRILLING COMPANY Yellow Jacket Drilling					DRILLING METHOD Hollow Stem Auger			LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 75 Limited Access Rig #142					BORING DIA. (in) 8		TOTAL DEPTH (ft) 30	GROUND ELEV (ft) 794	DEPTH/ELEV. GROUNDWATER (ft) ▼ / na				
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)					NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	
			R-6	24 50	74	66	3.2	112				OLD ALLUVIUM ; WELL-GRADED GRAVEL WITH SAND (GW); very dense; white (10YR 8/8) to very pale brown (10YR 7/4); moist; mostly GRAVEL; some fine to coarse SAND; trace fines; nonplastic.	
30	765		S-7	22 50 (5")	82	100+				30		Total Depth: 30 Feet Groundwater Not Encountered	
35	760									35			
40	755									40			
45	750									45			
	745												
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-13 b	

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-09		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/5/2024		FINISH 4/5/2024		SHEET NO. 1 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31.5		GROUND ELEV (ft) 832		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	830		B-1									FILL: SILTY SAND (SM); loose to medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL and COBBLE; nonplastic. Some tree roots.
5			R-2	4 7 7	14	11	10.1	113		5		YOUNG ALLUVIUM: SILTY SAND (SM); medium dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; trace GRAVEL and COBBLE; nonplastic
	825											
10			S-3	2 2 2	4	5			PA	10		SANDY SILT (ML); loose; strong brown (10YR 5/6); moist; mostly fines; some fine SAND; micaceous; nonplastic. (0% Gravel; 31% Sand; 69% Fines)
	820											
15			R-4	11 12 14	26	21	6.5	101		15		SILTY SAND (SM); medium dense; strong brown (10YR 5/6); moist; mostly fines; little fine SAND; nonplastic.
	815											
20			S-5	9 13 26	39	48				20		OLD ALLUVIUM: SILTY SAND (SM); dense; dark yellowish brown (10YR 4/4); moist; mostly fine to medium SAND; some fines; nonplastic.
	810											

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24



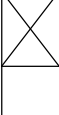





GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-14 a

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-09		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/5/2024		FINISH 4/5/2024		SHEET NO. 2 of 2		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 75 Limited Access Rig #142				BORING DIA. (in) 8		TOTAL DEPTH (ft) 31.5		GROUND ELEV (ft) 832		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 74%, N ₆₀ ~ 74/60 * N ~ 1.23 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
	805		R-6	8 14 22	36	30	2.5	114				OLD ALLUVIUM: POORLY-GRADED SAND WITH SILT (SP-SM); dense; brownish yellow (10YR 6/8); moist; mostly fine to medium SAND; little GRAVEL; few fines; nonplastic.
30			S-7	7 12 16	28	34				30		Grades from very pale brown (10YR 7/4) to yellowish brown (10YR 5/6); micaceous; trace GRAVEL.
	800											Total Depth: 31½ Feet Groundwater Not Encountered
35										35		
	795											
40										40		
	790											
45										45		
	785											
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-14 b

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

BORING RECORD				PROJECT NAME Riverside Community Hospital			PROJECT NUMBER SD809		BORING B-10			
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/2/2024		FINISH 4/2/2024		SHEET NO. 1 of 3		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger			LOGGED BY JWJ		CHECKED BY MAF			
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5	GROUND ELEV (ft) 838	DEPTH/ELEV. GROUNDWATER (ft) ▼ / na				
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
												PAVEMENT: 8-inches of Asphalt Concrete over 6-inches of Aggregate Base.
5	835		B-1						PA EI CR	5		FILL: SANDY SILT (ML); medium dense; yellowish brown (10YR 5/6); moist; mostly fines; some fine to medium SAND; low plasticity; micaceous. (0% Gravel; 33% Sand; 67% Fines)
			S-2	8 9 9	18	24						
10	830		R-3	8 14 20	34	30	5.8	99	DS	10		SILTY SAND (SM); dense; yellowish brown (10YR 5/6); moist; mostly fine to medium SAND; some fines; low plasticity; micaceous.
			S-4	8 9 11	20	27						
15	825		R-5	7 13 24	37	33	11.2	99	DS	15		SANDY SILT (ML); medium dense to dense; brownish yellow (10YR 6/8); moist; mostly fines; little fine to medium SAND; low plasticity; micaceous.
			S-5									
20	820									20		
	815											

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24



GROUP DELTA CONSULTANTS, INC.
9245 Activity Road, Suite 103
San Diego, California 92126

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.

FIGURE
A-15 a

BORING RECORD				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-10		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/2/2024		FINISH 4/2/2024		SHEET NO. 2 of 3		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5		GROUND ELEV (ft) 838		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
		X	S-6	5 9 12	21	28						FILL: SANDY SILT (ML); medium dense; light yellowish brown (10YR 4/4); moist; mostly fines; little fine SAND; nonplastic.
30	810	X	R-7	7 30 50	80	71	7.5	113		30		OLD ALLUVIUM: SILTY SAND WITH GRAVEL (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; little GRAVEL; nonplastic; micaceous.
35	805	X	S-8	8 17 18	35	47				35		SILTY SAND (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; few GRAVEL; nonplastic; micaceous.
40	800	X	R-9	15 30 42	72	64	5.6	115		40		SILTY SAND WITH GRAVEL (SM); very dense; strong brown (7.5YR 5/8); moist; mostly fine SAND; some fines; little GRAVEL; nonplastic; micaceous.
45	795	X	S-10	10 27 33	60	80				45		SANDY SILT (ML); medium dense; light yellowish brown (10YR 4/4); moist; mostly fines; little fine SAND; nonplastic; mildly cemented.
	790	X										SILTY SAND (SM); very dense; very pale brown (10YR 7/4) to brownish yellow (10YR 6/6), moist; mostly fine to medium SAND; some fines; few GRAVEL; nonplastic; micaceous.
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126										THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.		FIGURE A-15 b

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

<h1>BORING RECORD</h1>				PROJECT NAME Riverside Community Hospital				PROJECT NUMBER SD809		BORING B-10		
SITE LOCATION Proposed Parking Garage and Tower Sites						START 4/2/2024		FINISH 4/2/2024		SHEET NO. 3 of 3		
DRILLING COMPANY Yellow Jacket Drilling				DRILLING METHOD Hollow Stem Auger				LOGGED BY JWJ		CHECKED BY MAF		
DRILLING EQUIPMENT CME 85 Truck Mounted Rig #120				BORING DIA. (in) 8		TOTAL DEPTH (ft) 51.5		GROUND ELEV (ft) 838		DEPTH/ELEV. GROUNDWATER (ft) ▼ / na		
SAMPLING METHOD Hammer: 140 lbs., Drop: 30 in. (Automatic)				NOTES ETR ~ 80%, N ₆₀ ~ 80/60 * N ~ 1.33 * N								
DEPTH (feet)	ELEVATION (feet)	SAMPLE TYPE	SAMPLE NO.	PENETRATION RESISTANCE (BLOWS / 6 IN)	BLOW/FT "N"	N ₆₀	MOISTURE (%)	DRY DENSITY (pcf)	OTHER TESTS	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION
			R-11	17 27 50	87	77	2.0	---		55		<p>OLD ALLUVIUM: POORLY-GRADED SAND WITH SILT (SP-SM); very dense; very pale brown (10YR 8/3) to light yellowish brown (10YR 6/4); moist; mostly fine to medium SAND; few fines; few GRAVEL; nonplastic.</p> <p>Total Depth: 51½ Feet Groundwater Not Encountered</p>
	785											
	55											
	780											
	60											
	775											
	65											
	770											
	70											
	765											
GROUP DELTA CONSULTANTS, INC. 9245 Activity Road, Suite 103 San Diego, California 92126				THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED.				FIGURE A-15 c				

GDC_LOG_BORING_MMXX_SOIL_SD_SD809_LOGS.GPJ_GDCLOG.GDT 4/19/24

APPENDIX A1
PREVIOUS EXPLORATIONS (2007 to 2013)

EXPLORATORY BORING NO. 1

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 799.0

Logged by: VJR

Measured Depth to Water(ft): 39.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SM) Silty Sand, fine to coarse with gravel to 1", brown	Fill				14.8		
				X		8			
						14	13.4	120	Ring
						19			
5		(ML) Sandy Silt, fine with medium, light brown	Native						
				X		3			
						4	6.7	101	Ring, Consol.
						5			
10				X		4			
						7	11.5	120	Ring, DS
						9			
15		(SP-SM) Sand, medium to coarse with fine and silt, brown					2.3		
				X		7			
						12	2.3	114	Ring
						18			
20		(SW-SM) Sand with silt, fine to coarse with clay and gravel to 3", brown					5.3		
				X		38			
						50/5"	3.6	117	Ring
25				X		40			
						50/5"	4.1	105	Ring, DS
30				X		50/4"			
							3.5	104	Ring
		(SP) Sand, medium to coarse with fine, gravel and cobbles to 4", brown							

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE Job No. 07881-3
RIVERSIDE, CALIFORNIA

Enclosure
B-1a

EXPLORATORY BORING NO. 1

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 799.0

Logged by: VJR

Measured Depth to Water(ft): 39.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SP) Sand, medium to coarse with fine, gravel and cobbles to 4", brown				50/4"	6.0	111	Ring
40			▼ Groundwater			50/4"	17.2	Dist.	Ring
45						21 50/5"	10.5	123	Ring, DS
50						50	11.8	128	Ring
55						50	12.4	125	Ring
60						50/4"	15.4	123	Ring
65		NO BEDROCK REFUSAL AT 70.0' FILL TO 4.0' SLIGHT CAVING GROUNDWATER AT 39.0'				50/4"	9.6	134	Ring
		END OF BORING				50/1"	N.R.	N.R.	Ring

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE
RIVERSIDE, CALIFORNIA

Job No. 07881-3

Enclosure
B-1b

EXPLORATORY BORING NO. 2

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 800.0

Logged by: VJR

Measured Depth to Water(ft): 36.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(ML) Sandy Silt, fine to medium with coarse and gravel to 1", light brown	Fill			5 6 4	7.3		SA, MDE, SE SPT
		(ML) Sandy Silt, fine with medium, light brown	Native			3 2 2	7.9		SPT
15		(SP-SM) Sand, medium to coarse with fine, silt and gravel to 1", brown				3 3 5	3.3		SPT
		(SP) Sand, medium to coarse with fine and gravel to 1", brown				5 6 6			SPT
25		(SP) Sand, medium to coarse with fine and gravel to 1", brown				19 24 19			SPT
		(SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown				41 50/5"			SPT
30						50		SPT	

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE
RIVERSIDE, CALIFORNIA

Job No. 07881-3
Enclosure B-2a

EXPLORATORY BORING NO. 2

Date Drilled: 12/20/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 800.0

Logged by: VJR

Measured Depth to Water(ft): 36.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
40		(SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown	▼ Groundwater X X			19 23 32			SPT
45		END OF BORING				50/5"			SPT
50		NO BEDROCK REFUSAL AT 43.0' FILL TO 4.0' SLIGHT CAVING GROUNDWATER AT 36.0'							
55									
60									
65									

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE
RIVERSIDE, CALIFORNIA

Job No.
07881-3

Enclosure
B-2b

EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
	[Cross-hatched pattern]	Asphalt Base	Fill		[Cross-hatched pattern]		7.3		
	[Dotted pattern]	(SM) Silty Sand, fine with gravel to 3", red brown		[X pattern]		7 6 12	7.8	107	Ring
5	[Dotted pattern]	(SM) Silty Sand, fine, light brown	Native	[X pattern]		12 20 31	14.1	106	Ring
10	[Dotted pattern]			[X pattern]			10.8		
	[Dotted pattern]			[X pattern]		9 13 17	10.8	120	Ring
15	[Dotted pattern]			[X pattern]		9 16 39	15.0	117	Ring
20	[Dotted pattern]			[X pattern]		11 13 18	12.8	113	Ring
25	[Dotted pattern]	(ML) Sandy Silt, fine, brown		[X pattern]			25.0		
	[Dotted pattern]			[X pattern]		13 19 23	24.4	102	Ring
30	[Dotted pattern]	(ML) Sandy Silt, fine with clay, red brown		[X pattern]			13.6		
	[Dotted pattern]			[X pattern]		13 18 30	13.3	122	Ring

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE
RIVERSIDE, CALIFORNIA

Job No. 07881-3

Enclosure B-6a

EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.


Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
	(Diagonal hatching pattern)	(SC) Clayey Sand, fine to medium with silt, red brown		X	X		11.7		Cor.
40		(SM) Silty Sand, fine to medium with coarse and gravel to 3/4", light brown		X	X	10 18 35	10.8	125	Ring
45		(SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown		X	X	17 30 50	10.3	126	Ring
50		(SP) Sand, fine to medium with coarse and gravel to 1", light brown		X	X	48 43 41	1.8	Dist.	Ring
55		(SP) Sand, fine to medium with coarse and gravel to 1", light brown		X	X	40 50/5"	N.R.	N.R.	Ring
60		(SP) Sand, fine to coarse with gravel and cobbles to 4", light brown		X	X	50	N.R.	N.R.	Ring
65				X	X	50/4"	3.0	112	Ring
				X	X	50	3.3	96	Ring

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



C.H.J. PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE

RIVERSIDE, CALIFORNIA

Job No. 07881-3

Enclosure B-6b

EXPLORATORY BORING NO. 6

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 839.0

Logged by: JMZ

Measured Depth to Water(ft): 76.7

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
75		(SP) Sand, fine to coarse with gravel and cobbles to 4", light brown				50/4"	4.2	105	Ring
80		(SM) Silty Sand, fine to coarse with clay and gravel 3", brown	▼ Groundwater			50/5"	9.6	114	Ring
85		END OF BORING				50/2"	N.R.	N.R.	Ring
90		NO BEDROCK REFUSAL AT 83.0'							
95		FILL TO 5.0'							
100		SLIGHT CAVING							
		GROUNDWATER AT 76.7'							

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ/GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE
RIVERSIDE, CALIFORNIA

Job No. 07881-3

Enclosure B-6c

EXPLORATORY BORING NO. 7

Date Drilled: 12/26/07

Client: Riverside Community Hospital

Equipment: CME 75 Track Rig

Driving Weight / Drop: 140 lbs./ 30 in.

Surface Elevation(ft): 825.0

Logged by: JMZ

Measured Depth to Water(ft): N.A.

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
	Asphalt Base		Fill		XXXX		6.5		
		(SM) Silty Sand, fine to medium with coarse and gravel to 3", brown							
5		(SM) Silty Sand, fine to coarse with gravel to 1", brown	Native	X		6 8 8	5.8		Cor. SPT
10				X		3 3 3			SPT
15				X		2 4 3			SPT
20		(SP-SM) Sand, fine to medium with coarse and silt, light brown		X		2 3 5			SPT
25		(SP-SM) Sand, fine to coarse with silt and gravel to 1", light brown		X		6 8 11			SPT
30		(SP) Sand, fine to coarse, light brown		X		8 12 19			SPT
		(SP) Sand, fine to coarse with gravel to 1", light brown							

BORING LOG - NO EQUIV & BLOW PER 6 IN 07881-3.GPJ CHJ.GDT 1/18/08



C.H.J.

PROPOSED HOSPITAL EXPANSION AND PARKING GARAGE Job No. 07881-3
RIVERSIDE, CALIFORNIA

Enclosure
B-7a