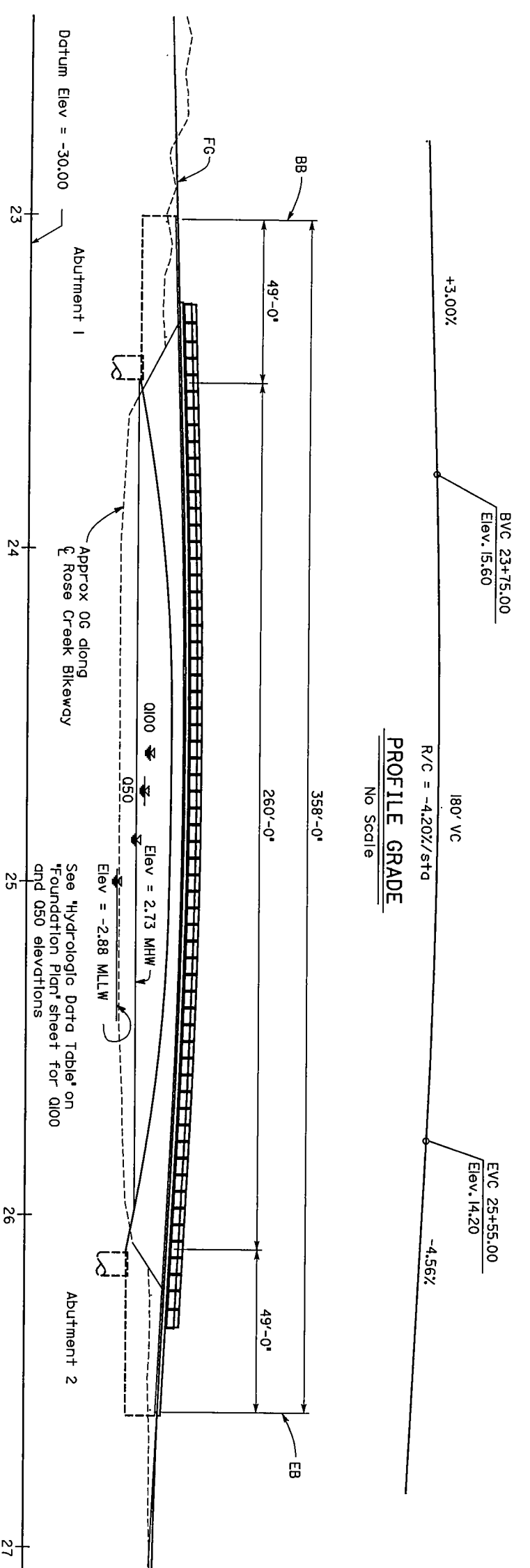


PROFILE GRADE
No Scale

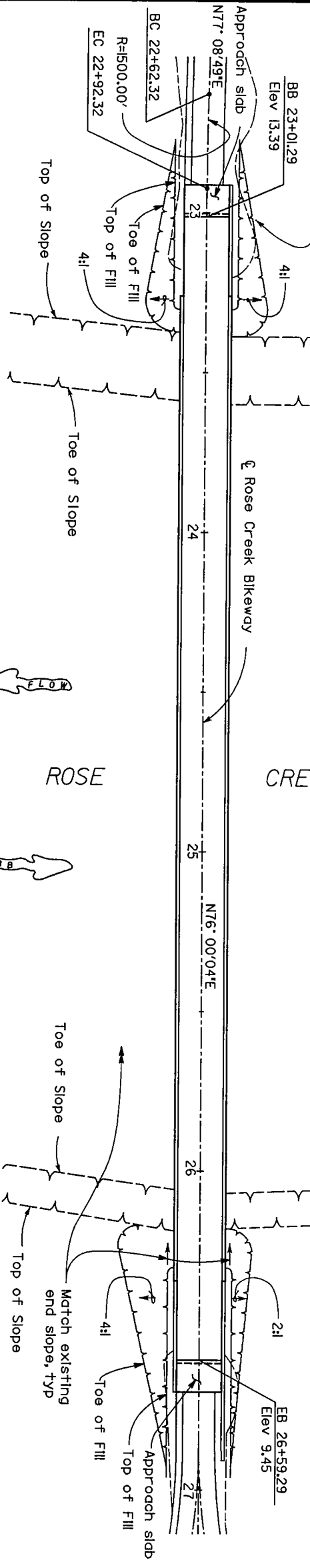


ELEVATION
1" = 20'

Location	Pile Type	Nominal Resistance		Cut-off Elevation	Design Tip Elevation	Specified Tip Elevation
		Compression	Tension			
Abutment 1	84" CIDH	2650 kips	0 kips	3.36'	-120.0'	-120.0'
Abutment 2	84" CIDH	2650 kips	0 kips	0.18'	-120.0'	-120.0'

Design tip elevations are controlled by compression.

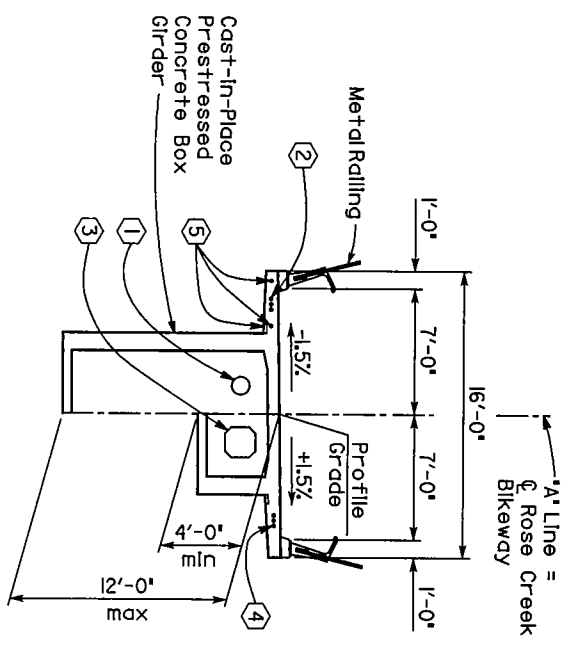
Hydroseed Slopes With Native Seed Mix, see Landscape Sheets



Curve Data
 Rose Creek Bikeway
 R = 1500.00'
 Δ = 1° 08'45"
 T = 15.00'
 L = 30.00'

PLAN
1" = 20'

For 'GeneralNotes', 'Index To Bridge Plans', and 'Index To Standard Plans', see 'Deck Contours' sheet
 Live Loading: 85 psf pedestrian loading and H10 truck, see 'Deck Contours' sheet

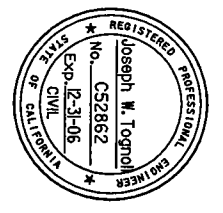


TYPICAL SECTION
3/8" = 1'-0"

- Utilities:
- 1) 1-12" dia opening for future (City of San Diego)
 - 2) 3-2" dia openings for cable tv (Time Warner)
 - 3) 1-20"X20" opening for electrical(SDG&E)
 - 4) 3-2" dia openings for future (City of San Diego)
 - 5) Conduits for bridge and bikeway lighting (See Electrical Plans)

Spec No. 3248
 City Contract, CIP No. 58-147.0

**PLANS FOR THE CONSTRUCTION OF:
 ROSE CREEK BIKEWAY BRIDGE
 GENERAL PLAN**



CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 23 OF 35 SHEETS

FOR CITY ENGINEER: _____ DATE: _____
 DESCRIPTION: _____ BY: _____ APPROVED DATE: _____
 FILE NAME: _____ DATE: _____ TITLE: _____

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:
 UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600

TYLININTERNATIONAL
 5050 CAMINO DE LA SIERRA, SUITE 204, SAN DIEGO, CA 92108
 (619) 692-9920
ENGINEER OF WORK
 Joseph W. Tognoli, CS2862
 PROJECT ENGINEER, Joseph Tognoli, P.E.
 DATE: 12-31-06 5-20-06

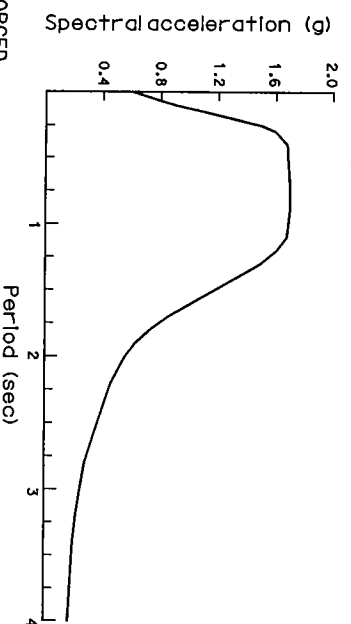
**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS, SEPTEMBER 2004 (LFD)
(1996 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC)
Version 1.3 February 2004

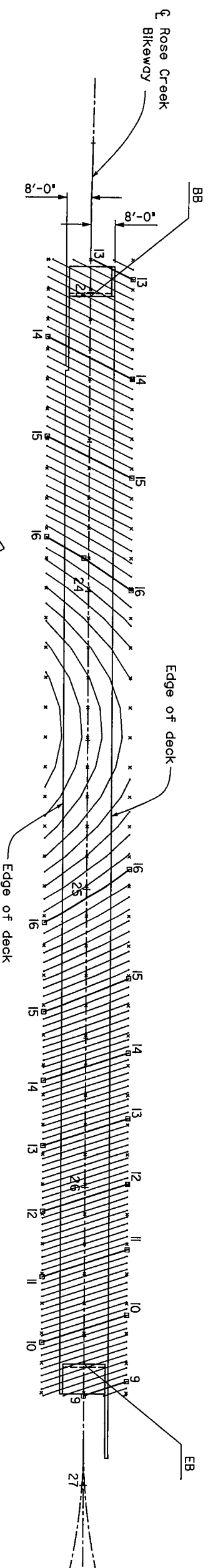
LIVE LOADING: 85 psf pedestrian load and H10 truck
For areas greater than 400 sf,
ped LL = 85 (0.25+15/√A) ≥ 65 psf

SEISMIC LOADING: Site Specific ARS Curve



REINFORCED CONCRETE:
 $f_y = 60,000$ psi
 $f_c = 3,600$ psi
 $n = 9$
 Transverse Deck Slabs (Working Stress Design)
 $f_s = 20,000$ psi
 $f_c = 1,200$ psi
 $n = 10$

PRESTRESSED CONCRETE: See 'Prestressing Notes' on 'Girder Layout' sheet.



PLAN
1"=20'

INDEX TO BRIDGE PLANS

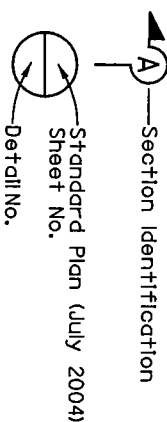
SHEET NO.	TITLE
23	GENERAL PLAN
24	DECK CONTOURS
25	FOUNDATION PLAN
26	ABUTMENT LAYOUT
27	ABUTMENT DETAILS
28	TYPICAL SECTION
29	SUPERSTRUCTURE GEOMETRY
30	GIRDER LAYOUT
31	MISCELLANEOUS DETAILS
32	METAL RAILING DETAILS
33	LOG OF TEST BORINGS No. 1
34	LOG OF TEST BORINGS No. 2
35	LOG OF TEST BORINGS No. 3

INDEX TO STANDARD PLANS

THE FOLLOWING STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, DATED JULY 2004, ARE A PART OF THESE CONTRACT DRAWINGS.

A10A	ACRONYMS AND ABBREVIATIONS (A-1)
A10B	ACRONYMS AND ABBREVIATIONS (M-1)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-21	JOINT SEALS (MAXIMUM MOVEMENT RATING=50MM)
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING-BOX GIRDER
RSP B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS

PLAN SYMBOLS



RSP - Revised Standard Plans SPECIFICATIONS

STANDARD SPECIFICATIONS DATED JULY 1999, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
SPECIAL PROVISIONS FOR THE CONSTRUCTION OF THIS PROJECT.

- Notes:
1. Contour Interval = 0.10 ft.
 2. Contours do not include camber.
 3. \square - Indicates even foot contours.
 4. X - Indicates 10' Intervals along Rose Creek Bikeway.

FINAL PAY QUANTITIES

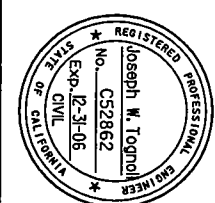
Structure Excavation (Bridge)	302	CY
Structure Backfill (Bridge)	60	CY
Structural Concrete, Bridge	506	CY
Structural Concrete, Approach Slab	8	CY
Anti-Graffiti Coating	10,793	SF
Bar Reinforcing Steel (Bridge)	55,404	LB
High Strength Steel (Epoxy Coated) (Bridge)	135,074	LB
High Strength Steel Reinforcing Steel (Epoxy Coated)	14,034	LB
Prepare and Stain Concrete	10,793	SF
Metal Railing, Type A	611	LF
Metal Railing, Type B	59	LF

APPROXIMATE QUANTITIES

84" Cast-in-drilled-hole Concrete Piling	244	LF
Prestressing, Cast-in-place Concrete	1	LS
Joint Seal (Type B - MR 2)	28	LF

Spec No. 3248
City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:
**ROSE CREEK BIKEWAY BRIDGE
DECK CONTOURS**



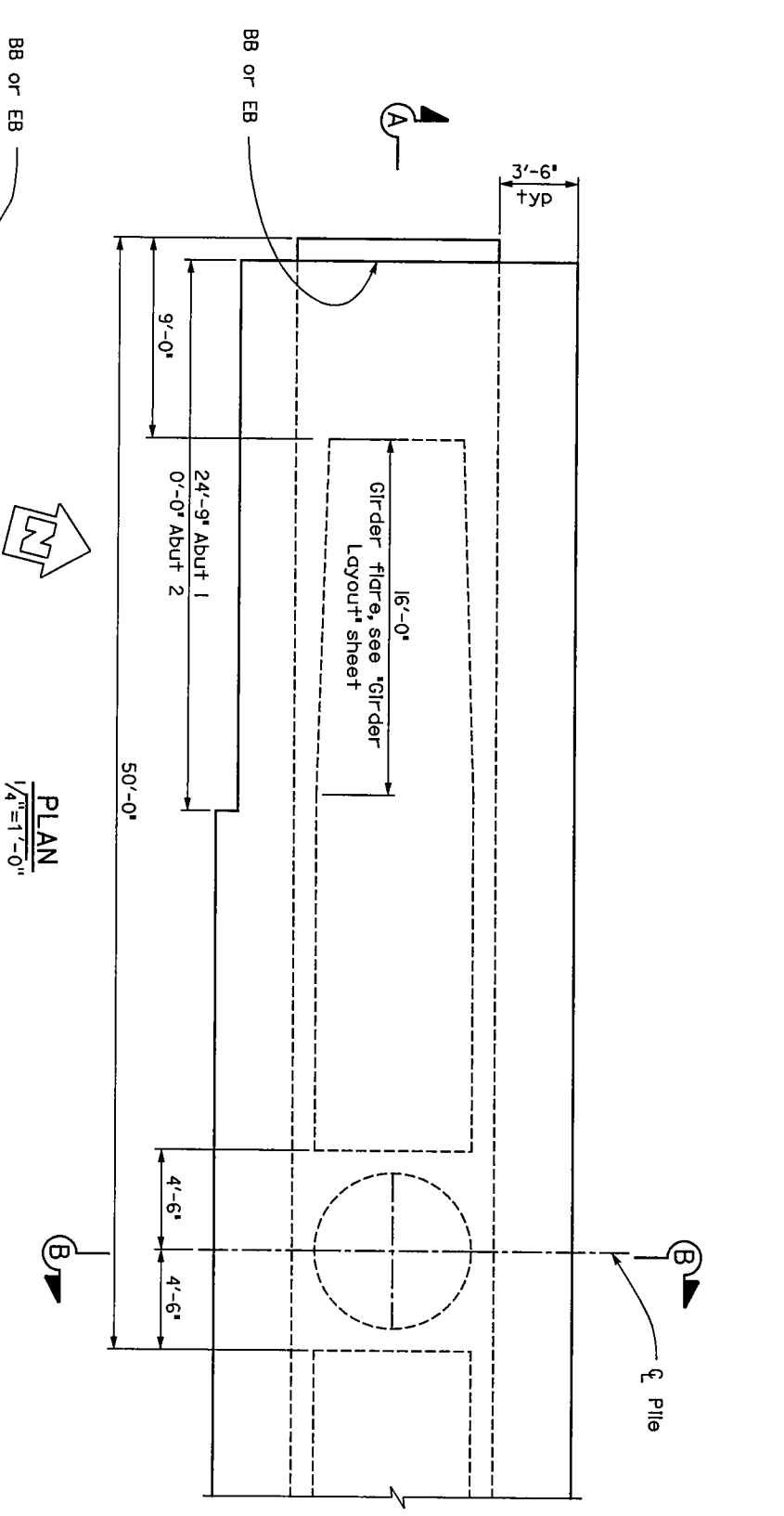
CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 24 OF 35 SHEETS

V.O. 581470

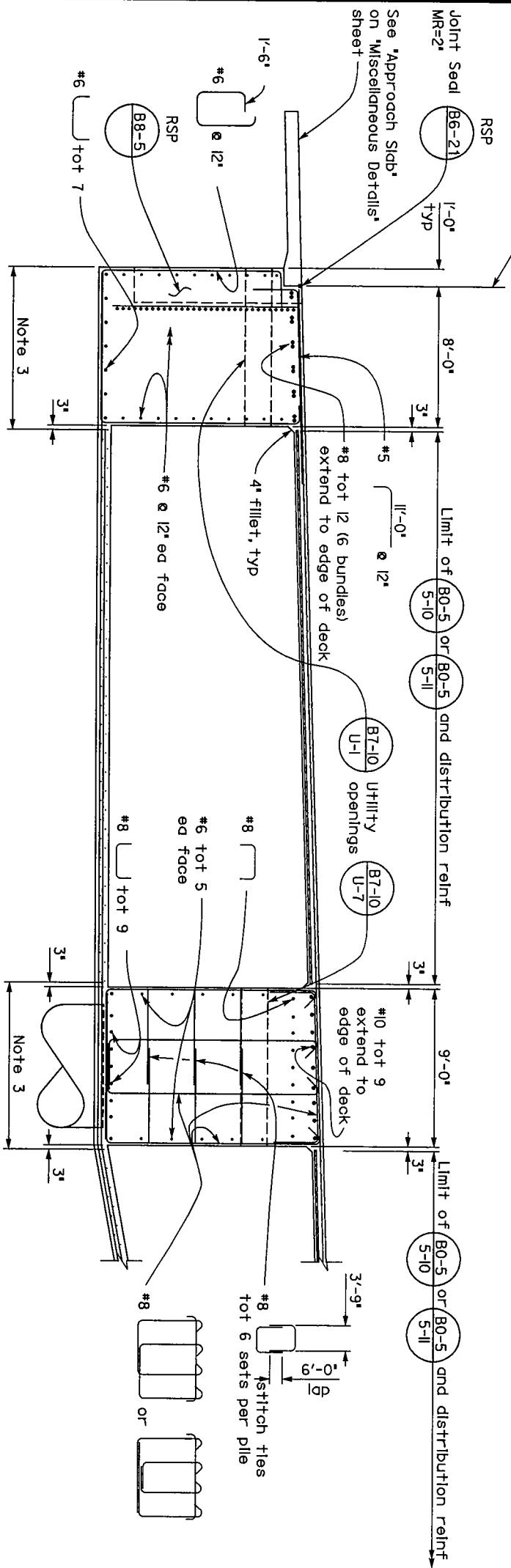
TYLIN INTERNATIONAL
5050 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108
(619) 592-9920
www.tylin.com

ENGINEER OF WORK
Joseph W. Tognoli
PROJECT ENGINEER (Seal No. C52862) EXP. 12-31-06 DATE

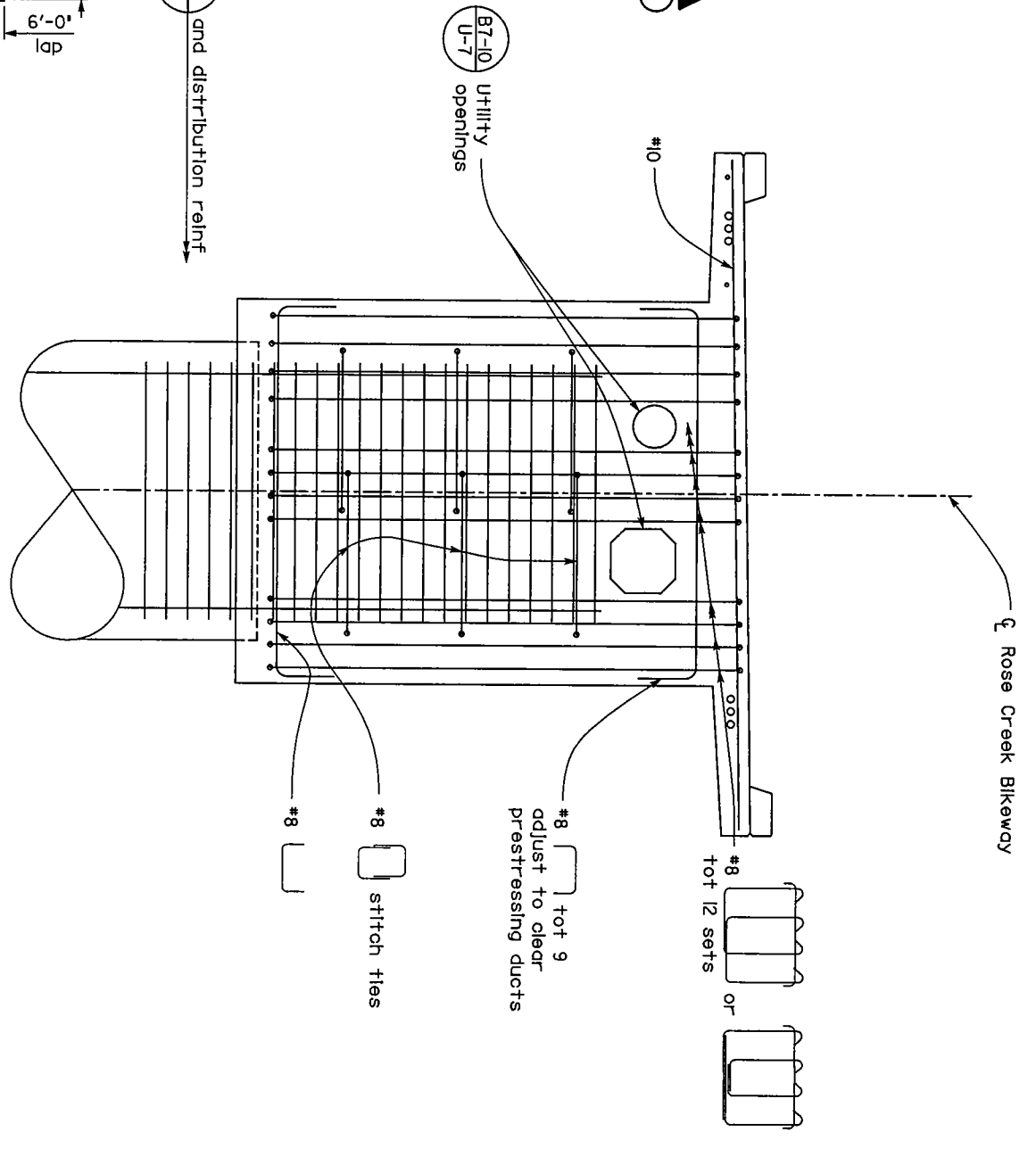
FOR CITY ENGINEER	DATE	FOR SECTION HEAD	DATE
DESCRIPTION	BY	APPROVED	DATE
FILE NAME	TYLIN		
DATE			
PROJECT MANAGER	Andreg Domlich		
PROJECT ENGINEER	230-1698		
UNDERGROUND SERVICE ALERT	USA1 1-800-227-2600		
CONTRACTOR	DATE COMPLETED		
33769-24-D			



PLAN
1/4"=1'-0"



SECTION A-A
1/4"=1'-0"



SECTION B-B
1/2"=1'-0"

- Notes:
1. Abutment 1 shown, Abutment 2 similar.
 2. Extend longitudinal deck and longitudinal bottom slab reinf into diaphragm and pile cap.
 3. For dimensions and reinf not shown, see 'Typical Section' and 'Abutment Details' sheets.
 4. All reinforcement, except inner cages of piles, to be epoxy coated.

TYLINTNTERNATIONAL
 ENGINEER OF WORK
 5050 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108
 (619) 692-1920
 www.tylin.com

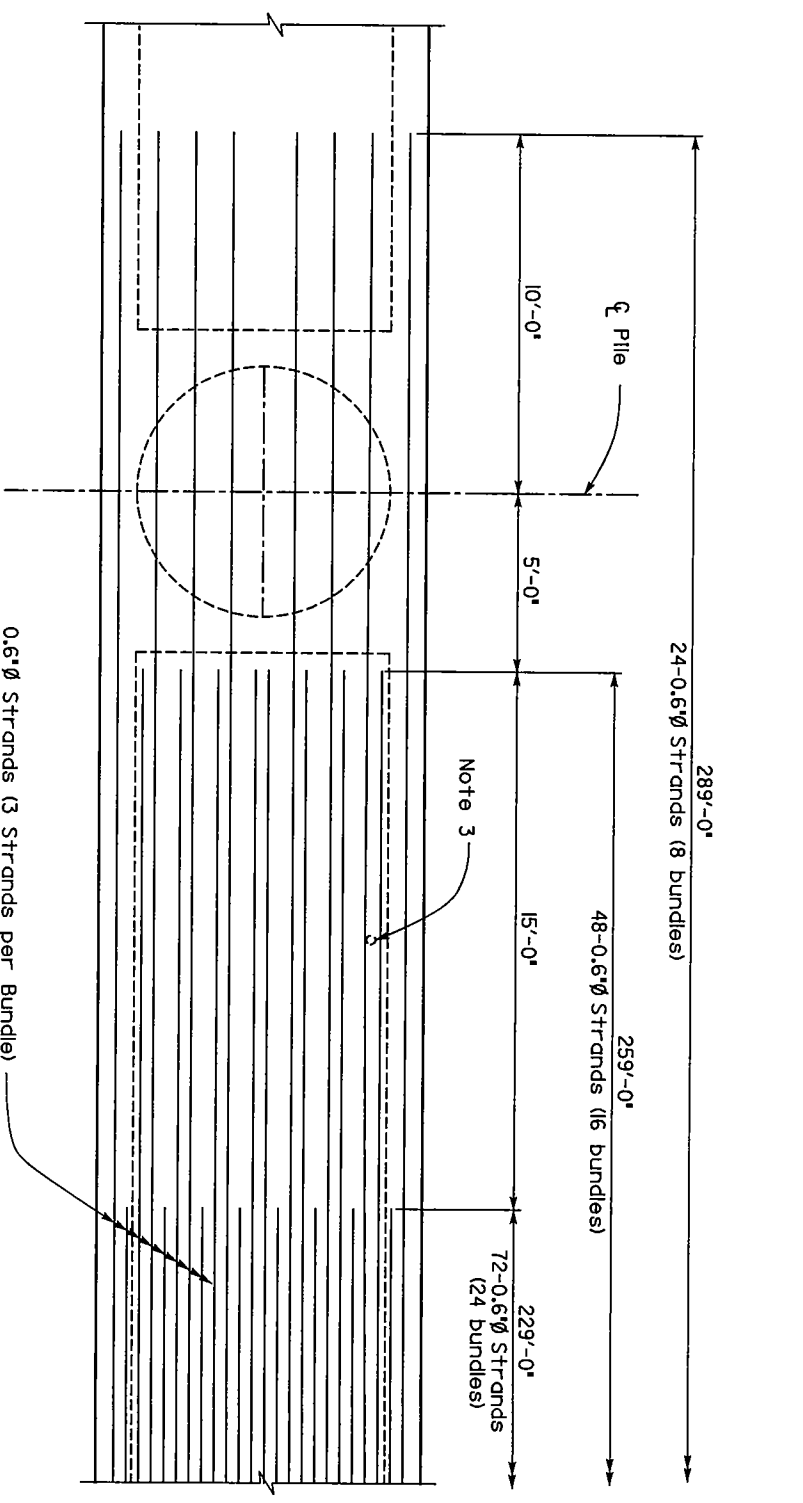
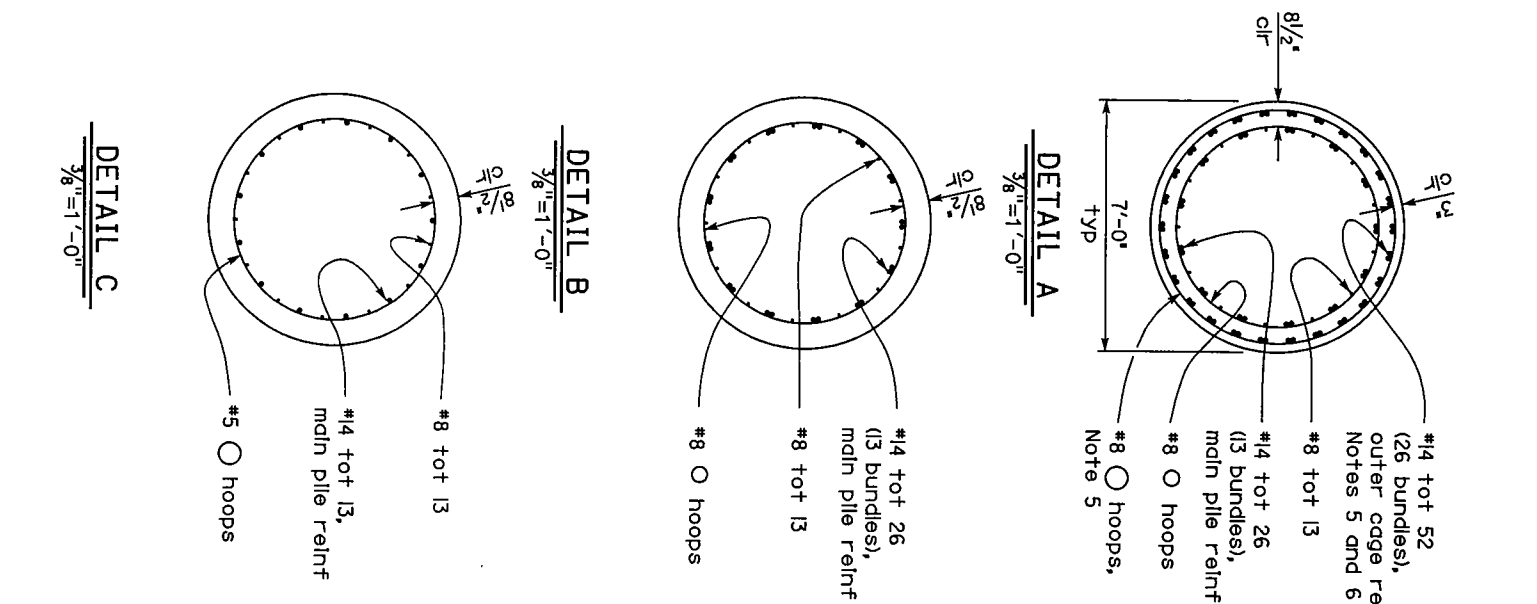
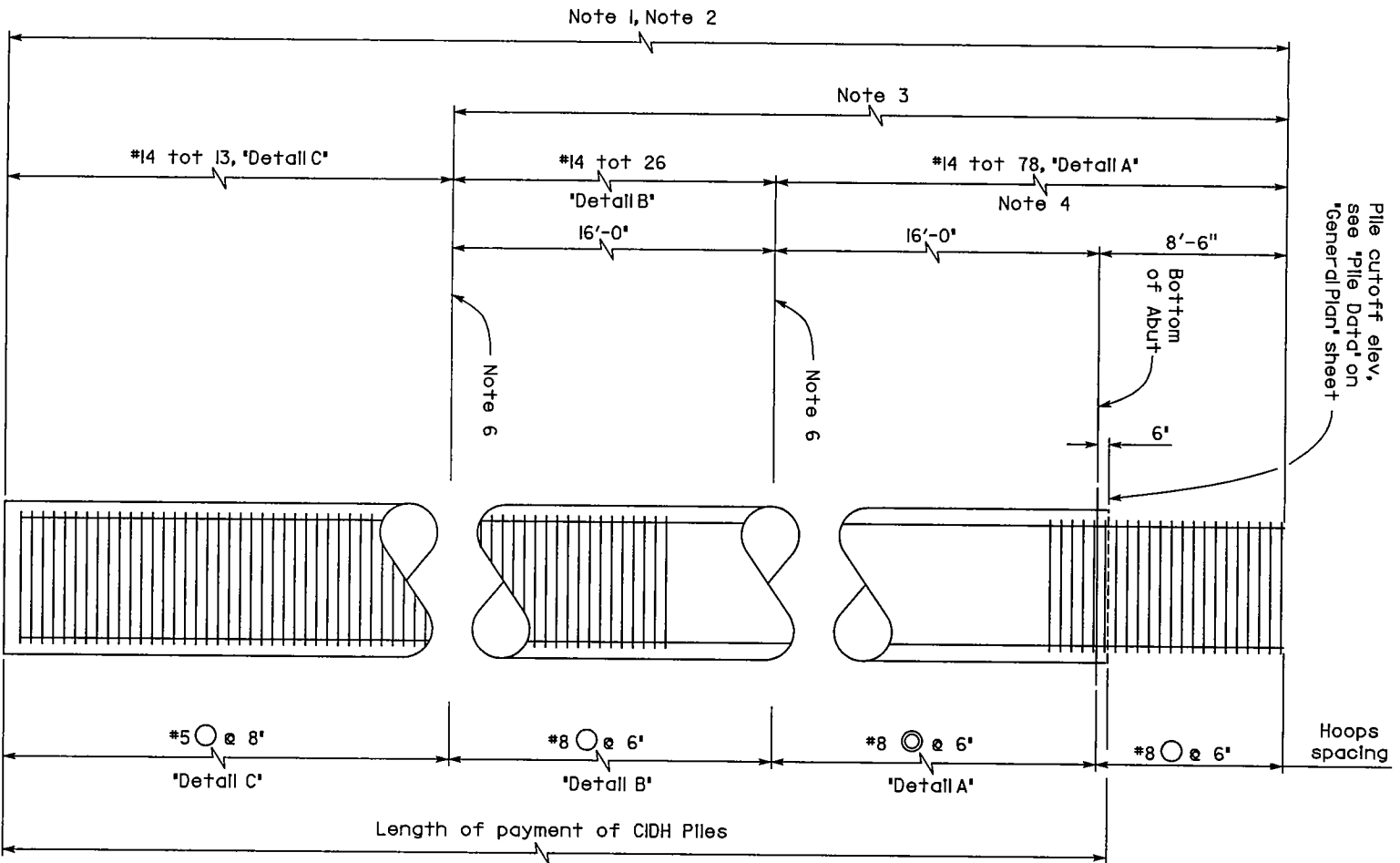
REGISTERED PROFESSIONAL ENGINEER
 Joseph W. Tognoli
 No. CS2862
 Exp. 12-31-06
 STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:
 UNDERGROUND SERVICE ALERT (USA) 1-800-221-2500

Spec No. 3248
 City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:
ROSE CREEK BIKEWAY BRIDGE
ABUTMENT LAYOUT

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 26 OF 35 SHEETS	NO. 581470
FOR CITY ENGINEER	DATE
BY	APPROVED
DATE	DATE
FILE NO.	TITLE
PROJECT ENGINEER	PROJECT MANAGER
DATE STARTED	DATE COMPLETED
AS-BUILT	LABELED COMMENTS
CONTRACTOR	NO.
REVISION	DATE



SOFFIT SLAB REINFORCEMENT PLAN
 $\frac{3}{8}'' = 1'-0''$

Notes:
 1. Abutment 1 shown, Abutment 2 similar.
 2. See 'Typical Section' sheet for details not shown.
 3. Adjust strands to clear vents, for location of vents see 'Girder Layout' sheet

- Notes:**
- All hoops are ultimate butt spliced.
 - Main pile reinf shall be adjusted to accommodate inspection pipes, as approved by the Engineer.
 - No splices allowed in main pile reinf in this region.
 - Construction joint is permissible at bottom of 'Detail A' region.
 - Outer rebar cage shall be epoxy coated.
 - Stagger termination of reinforcement over 7 feet.

84" DIA CIDH CONCRETE PILE
 $\frac{1}{4}'' = 1'-0''$

TYLIN INTERNATIONAL
 ENGINEER OF WORK
 5030 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108
 (619) 682-1920
 www.tylin.com

REGISTERED PROFESSIONAL ENGINEER
 Joseph M. Tognoli
 No. CS2862
 Exp. 12-31-06
 STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:		UNDERGROUND SERVICE ALERT (USA) 1-800-227-2500	
FOR CITY ENGINEER	DATE	DATE	DATE
DESCRIPTION	BY	APPROVED	DATE
FILE NAME	DATE	TITLE	DATE
PROJECT ENGINEER	DATE	PROJECT MANAGER	DATE
DATE STARTED	DATE COMPLETED	SECTION HEAD	DATE
CONTRACTOR	DATE	PROJECT ENGINEER	DATE
ASBESTOS	DATE	PROJECT MANAGER	DATE
LABORER COORDINATOR	DATE	PROJECT ENGINEER	DATE
		LABORER COORDINATOR	DATE

PLANS FOR THE CONSTRUCTION OF:
ROSE CREEK BIKEWAY BRIDGE
ABUTMENT DETAILS

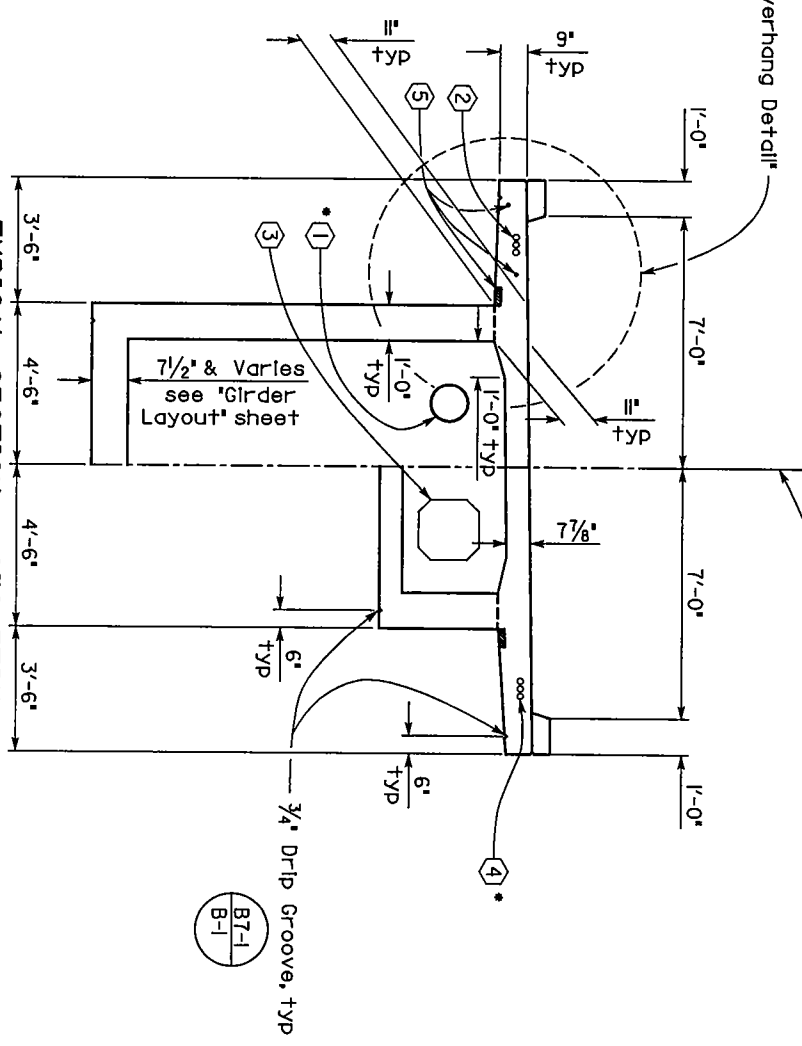
Spec No. 3248
 City Contract, CIP No. 58-147.0

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 27 OF 35 SHEETS

NO. 581470

Joseph M. Tognoli
 PROJECT ENGINEER
 230-1698
 33769-27-D

See 'Curb And Overhang Detail'

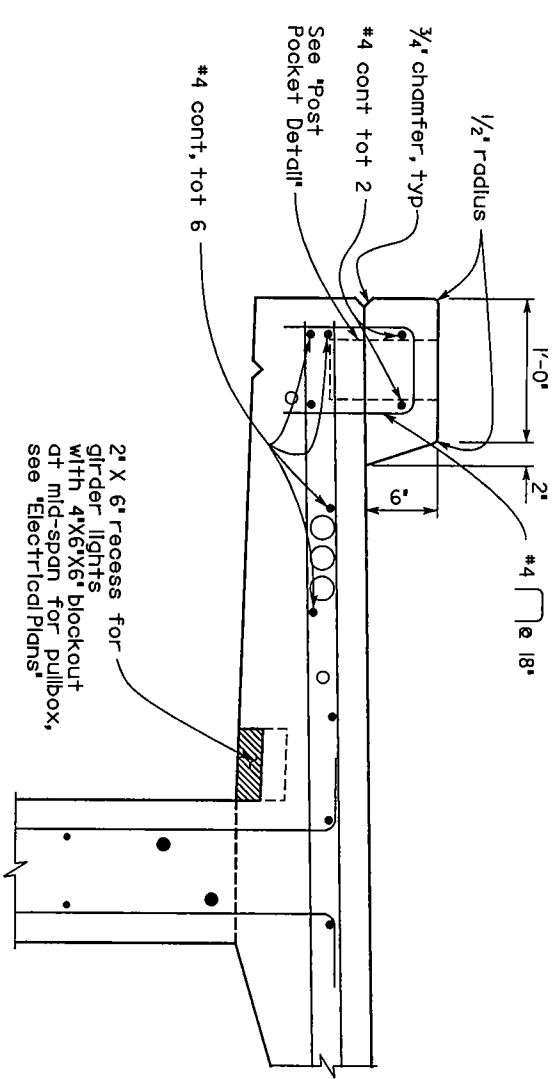


TYPICAL SECTION - GEOMETRY

Utilities:

- ① I-12 dia opening for future (City of San Diego)*
- ② 3-2" dia openings for cable tv (Time Warner)
- ③ I-20"x20" for electrical (SDG&E)
- ④ 3-2" dia openings for future (City of San Diego)*
- ⑤ Conduits for bridge and bikeway lighting (See Electrical Plans)

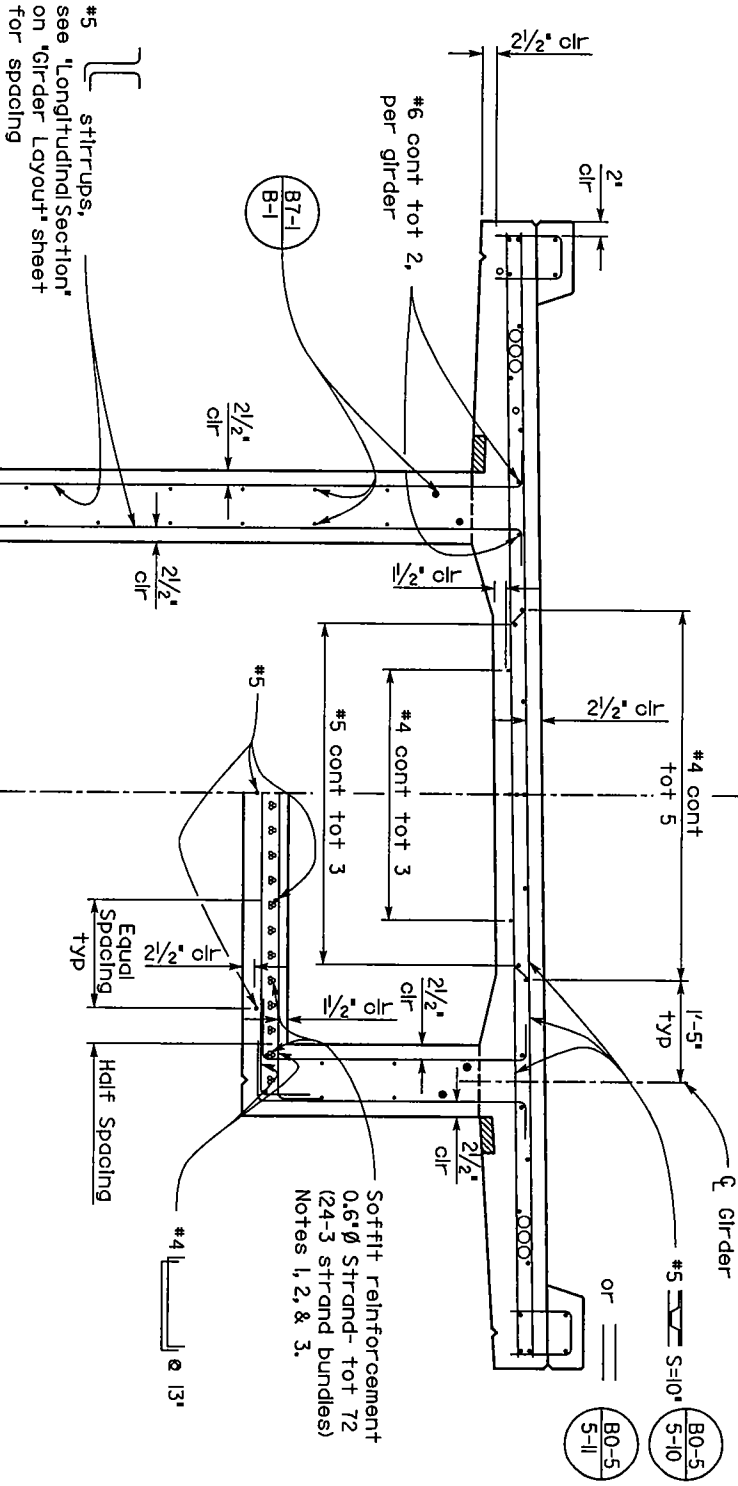
*For casing details of abutments, see 'Miscellaneous Details' sheet



CURB AND OVERHANG DETAIL

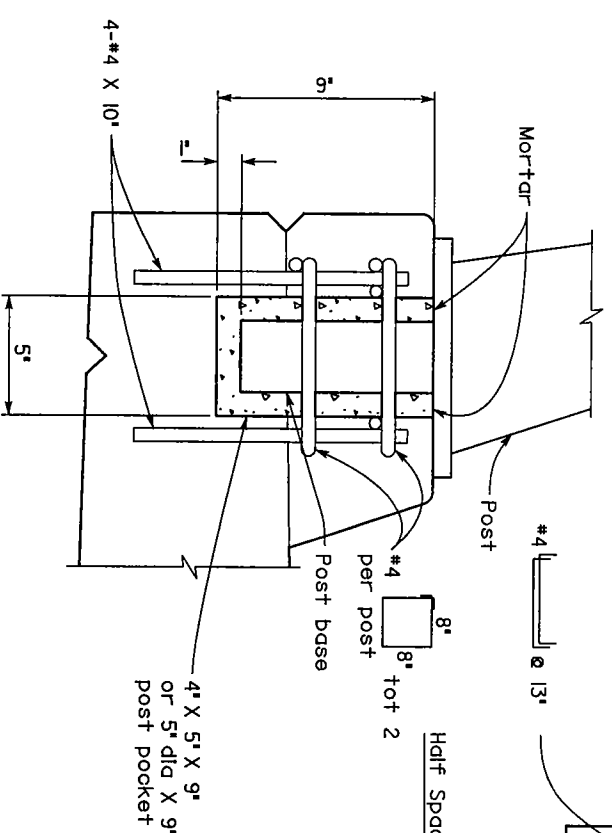
1/2" = 1'-0"

Symmetrical about ζ Rose Creek Bikeway



TYPICAL SECTION - REINFORCEMENT

- Notes:
- 1. High strength strand reinforcing steel, unstressed, epoxy coated.
 - 2. Strand shall run continuous through soffit slab without splices.
 - 3. See 'Soffit Slab Reinforcement Plan' on 'Abutment Details' sheet for termination schedule.
 - 4. All reinforcement to be epoxy coated.



POST POCKET DETAIL

3" = 1'-0"

TYLLININTERNATIONAL
 ENGINEER OF WORK
 5020 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108
 (619) 692-9320
 PROJECT ENGINEER: Joseph Tognoli
 DATE: 12-31-06

REGISTERED PROFESSIONAL ENGINEER
 Joseph M. Tognoli
 No. CS2862
 Exp. 12-31-06
 CIVIL
 STATE OF CALIFORNIA

PLANS FOR THE CONSTRUCTION OF:
ROSE CREEK BIKEWAY BRIDGE
 TYPICAL SECTION

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 28 OF 35 SHEETS

FOR CITY ENGINEER	DATE	SECTION HEAD
DESCRIPTION	BY	APPROVED
DATE	DATE	DATE
FILED	FILED	FILED
DATE	DATE	DATE
PROJECT MANAGER	PROJECT ENGINEER	PROJECT ENGINEER
ANDRÉ G. DOMITON	230-1698	230-1698
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR	DATE STARTED	DATE COMPLETED

Spec No. 3248
 City Contract, CIP No. 58-147.0

