CITY OF SOLANA BEACH

SOLANA BEACH CITY COUNCIL, SUCCESSOR AGENCY TO THE REDEVELOPMENT AGENCY, PUBLIC FINANCING AUTHORITY, & HOUSING AUTHORITY



AGENDA

Joint REGULAR Meeting

Wednesday, January 10, 2024 * 6:00 p.m.

City Hall / Council Chambers, 635 S. Highway 101, Solana Beach, California

- City Council meetings are video recorded and archived as a permanent record. The <u>video</u> recording captures the complete proceedings of the meeting and is available for viewing on the City's website.
- Posted Reports & Supplemental Docs contain records up to the cut off time prior to meetings for processing new submittals. Complete records containing meeting handouts, PowerPoints, etc. can be obtained through a <u>Records</u> <u>Request</u>.

PUBLIC MEETING ACCESS

The Regular Meetings of the City Council are scheduled for the 2nd and 4th Wednesdays and are broadcast live. The video taping of meetings are maintained as a permanent record and contain a detailed account of the proceedings. Council meeting tapings are archived and available for viewing on the City's <u>Public Meetings</u> webpage.

WATCH THE MEETING

- <u>Live web-streaming</u>: Meetings web-stream live on the City's website on the City's <u>Public Meetings</u> webpage. Find the large Live Meeting button.
- <u>Live Broadcast on Local Govt. Channel:</u> Meetings are broadcast live on Cox Communications Channel 19 / Spectrum (Time Warner)-Channel 24 / AT&T U-verse Channel 99.
- <u>Archived videos online</u>: The video taping of meetings are maintained as a permanent record and contain a
 detailed account of the proceedings. Council meeting tapings are archived and available for viewing on the
 City's <u>Public Meetings</u> webpage.

AGENDA MATERIALS

A full City Council agenda packet including relative supporting documentation is available at City Hall, the Solana Beach Branch Library (157 Stevens Ave.), La Colonia Community Ctr., and online www.cityofsolanabeach.org. Agendas are posted at least 72 hours prior to regular meetings and at least 24 hours prior to special meetings. Writings and documents regarding an agenda of an open session meeting, received after the official posting, and distributed to the Council for consideration, will be made available for public viewing at the same time. In addition, items received at least 1 hour 30 minutes prior to the meeting time will be uploaded online with the agenda posting. Materials submitted for consideration should be forwarded to the <u>City Clerk's Department</u> 858-720-2400. The designated location for viewing of hard copies is the City Clerk's office at City Hall during normal business hours.

PUBLIC COMMENTS

<u>Written correspondence</u> (supplemental items) regarding an agenda item at an open session meeting should be submitted to the City Clerk's Office at <u>clerkoffice@cosb.org</u> with a) Subject line to include the meeting date b) Include the Agenda Item # as listed on the Agenda.

 Correspondence received after the official posting of the agenda, but two hours prior to the meeting start time, on the meeting day, will be distributed to Council and made available online along with the agenda posting. All submittals received before the start of the meeting will be made part of the record.

• Written submittals will be added to the record and not read out loud.

And/Or

Verbal Comment Participation:

Please submit a speaker slip to the City Clerk prior to the meeting, or the announcement of the Section/Item, to provide public comment. Allotted times for speaking are outlined on the speaker's slip for each agenda section: Oral Communications, Consent, Public Hearings and Staff Reports. Public speakers have 3 minutes each to speak on each topic. Time may be donated by another individual who is present at the meeting to allow an individual up to 6 minutes to speak. Group: Time may be donated by two individuals who are present at the meeting allowing an individual up to 10 minutes to speak. Group Hearings: For public hearings only, time may be donated by two individuals who are present at the meeting allowing an individual up to 15 minutes to speak.

SPECIAL ASSISTANCE NEEDED

In compliance with the Americans with Disabilities Act of 1990, persons with a disability may request an agenda in appropriate alternative formats as required by Section 202. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the <u>City Clerk's</u> <u>office</u> (858) 720-2400 at least 72 hours prior to the meeting.

As a courtesy to all meeting attendees, <u>please set all electronic devices to silent mode</u> and engage in conversations outside the Council Chambers.

	CITY COUNCILMEMBE Lesa Heebner Mayor	ERS
Jewel Edson		Kristi Becker
Deputy Mayor / Councilmember District 3		Councilmember District 2
Jill MacDonald		David A. Zito
Councilmember District 4		Councilmember District 1
Gregory Wade	Johanna Canlas	Angela Ivey
City Manager	City Attorney	City Clerk

SPEAKERS:

Please submit your speaker slip to the City Clerk prior to the meeting or the announcement of the Item. Allotted times for speaking are outlined on the speaker's slip for Oral Communications, Consent, Public Hearings and Staff Reports.

READING OF ORDINANCES AND RESOLUTIONS:

Pursuant to <u>Solana Beach Municipal Code</u> Section 2.04.460, at the time of introduction or adoption of an ordinance or adoption of a resolution, the same shall not be read in full unless after the reading of the title, further reading is requested by a member of the Council. If any Councilmember so requests, the ordinance or resolution shall be read in full. In the absence of such a request, this section shall constitute a waiver by the council of such reading.

CALL TO ORDER AND ROLL CALL:

CLOSED SESSION REPORT:

FLAG SALUTE:

APPROVAL OF AGENDA:

PROCLAMATIONS/CERTIFICATES: Ceremonial

None at the posting of this agenda

PRESENTATIONS: Ceremonial items that do not contain in-depth discussion and no action/direction.

• San Diego County Sheriff's Annual Report

ORAL COMMUNICATIONS:

Comments relating to items on this evening's agenda are taken at the time the items are heard. This portion of the agenda provides an opportunity for members of the public to address the City Council on items relating to City business and <u>not appearing on today's agenda</u> by submitting a speaker slip (located on the back table) to the City Clerk. Pursuant to the Brown Act, no action shall be taken by the City Council on public comment items. Council may refer items to the City Manager for placement on a future agenda. The maximum time allotted for each presentation is THREE MINUTES. No donations of time are permitted (SBMC 2.04.190). Please be aware of the timer light on the Council Dais.

COUNCIL COMMUNITY ANNOUNCEMENTS / COMMENTARY:

An opportunity for City Council to make brief announcements or report on their activities. These items are not agendized for official City business with no action or substantive discussion.

A. CONSENT CALENDAR: (Action Items) (A.1. - A.7.)

Items listed on the Consent Calendar are to be acted in a single action of the City Council unless pulled for discussion. Any member of the public may address the City Council on an item of concern by submitting to the City Clerk a speaker slip (located on the back table) before the Consent Calendar is addressed. Those items removed from the Consent Calendar by a member of the <u>Council</u> will be trailed to the end of the agenda, while Consent Calendar items removed by the <u>public</u> will be heard immediately after approval of the Consent Calendar to hear the public speaker.

All speakers should refer to the public comment section at the beginning of the agenda for details. Please be aware of the timer light on the Council Dais.

A.1. Minutes of the City Council.

Recommendation: That the City Council

1. Approve the Minutes of the City Council meetings held on December 13, 2023.

Item A.1. Report (click here)

A.2. Register Of Demands. (File 0300-30)

Recommendation: That the City Council

1. Ratify the list of demands for November 25, 2023 – December 15, 2023.

Item A.2. Report (click here)

A.3. General Fund Adopted Budget for Fiscal Year 2023/2024 Changes. (File 0330-30)

Recommendation: That the City Council

1. Receive the report listing changes made to the Fiscal Year 2023-2024 General Fund Adopted Budget.

Item A.3. Report (click here)

A.4. 2024 City Council Meeting Schedule Planning. (File 0410-05)

Recommendation: That the City Council

1. Review, edit, and/or approve a 2024 anticipated Council Meeting schedule with proposed cancellations and/or additional meetings.

Item A.4. Report (click here)

A.5. Fire Station Garage Doors Replacement, Maintenance, and As-Needed Repair Services. (File 0700-14)

Recommendation: That the City Council

1. Adopt Resolution 2024-001:

- a. Ratifying the City Manager's decision to execute amendment No. 2 to the Professional Services Agreement with National Garage Door, in an amount of \$48,000, for a total not to exceed amount of \$230,900 for Fiscal Year 2023/24.
- b. Authorizing a transfer of \$48,000 from the CIP Fund unallocated fund balance for Fiscal Year 2023/24.
- c. Authorizing the City Treasurer to amend the Fiscal Year 2023/24 Adopted Budget accordingly.

Item A.5. Report (click here)

A.6. Fiscal Year 2022-23 Street Maintenance and Repair Project. (File 0820-35)

Recommendation: That the City Council

- 1. Adopt Resolution 2024-004:
 - a. Authorizing the City Council to accept, as complete, the FY 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, performed by Quality Construction & Engineering.
 - b. Authorizing the City Clerk to file a Notice of Completion.

Item A.6. Report (click here)

A.7. Code Compliance Vehicle Replacement. (File 0370-26)

Recommendation: That the City Council

1. Approve **Resolution 2024-008** authorizing the purchase of two (2) new Ford Maverick Hybrid pick-up trucks, with equipment upfits, for \$96,680.46 for the Code Compliance Division.

Item A.7. Report (click here)

NOTE: The City Council shall not begin a new agenda item after 10:30 p.m. unless approved by a unanimous vote of all members present. (SBMC 2.04.070)

B. PUBLIC HEARINGS: (B.1.)

This portion of the agenda provides citizens an opportunity to express their views on a specific issue as required by law after proper noticing by <u>submitting a speaker slip</u> (located on the back table) <u>to the</u>

<u>City Clerk</u>. After considering all of the evidence, including written materials and oral testimony, the City Council must make a decision supported by findings and the findings must be supported by substantial evidence in the record. An applicant or designee(s) for a private development/business project, for which the public hearing is being held, is allotted a total of fifteen minutes to speak, as per SBMC 2.04.210. A portion of the fifteen minutes may be saved to respond to those who speak in opposition. *All other speakers should refer to the public comment section at the beginning of the agenda for time allotment*. Please be aware of the timer light on the Council Dais.

B.1. Public Hearing: 825 S. Sierra Ave., Applicant: Del Mar Beach Club Homeowners Association, Case: CUP23-001. (File 0600-40)

Recommendation: That the City Council

- 1. Conduct the Public Hearing: Open the Public Hearing, Report Council Disclosures, Receive Public Testimony, and Close the Public Hearing.
- Find the Proposed Project exempt from the requirements of CEQA pursuant to 2023 State California CEQA Guidelines §15269 as emergency conditions exist onsite. The project could also be found exempt from the requirements of CEQA pursuant to Section 152301 of the State California CEQA Guidelines.
- 3. Adopt **Resolution 2024-010** conditionally approving a Conditional Use Permit for maintenance and repair of the southern 170 feet of an existing 540-foot lower bluff seawall and an upper bluff drilled pier wall running east to west along the southern property line at 825 S. Sierra Avenue, Solana Beach.

Item B.1. Report (click here)

C. STAFF REPORTS: (C.1.)

Submit speaker slips to the City Clerk.

All speakers should refer to the public comment section at the beginning of the agenda for time allotments. Please be aware of the timer light on the Council Dais.

C.1. Army Corps Beach Sand Project Presentation.

No recommendation or report.

WORK PLAN COMMENTS:

Adopted June 28, 2023

COMPENSATION & REIMBURSEMENT DISCLOSURE:

GC: Article 2.3. Compensation: 53232.3. (a) Reimbursable expenses shall include, but not be limited to, meals, lodging, and travel. 53232.3 (d) Members of a legislative body shall provide brief reports on meetings attended at the expense of the local agency "*City*" at the next regular meeting of the legislative body.

COUNCIL COMMITTEE REPORTS: Council Committees

REGIONAL COMMITTEES: (outside agencies, appointed by this Council)

- a. City Selection Committee (meets twice a year) Primary-Heebner, Alternate-Edson
- b. Clean Energy Alliance (CEA) JPA: Primary-Becker, Alternate-Zito
- c. County Service Area 17: Primary-MacDonald, Alternate-Edson
- d. Escondido Creek Watershed Authority: Becker / Staff (no alternate).
- e. League of Ca. Cities' San Diego County Executive Committee: Primary-MacDonald, Alternate-Becker. Subcommittees determined by its members.

- f. League of Ca. Cities' Local Legislative Committee: Primary-MacDonald, Alternate-Becker
- g. League of Ca. Cities' Coastal Cities Issues Group (CCIG): Primary-MacDonald, Alternate-Becker
- h. North County Dispatch JPA: Primary-MacDonald, Alternate-Becker
- i. North County Transit District: Primary-Edson, Alternate-MacDonald
- j. Regional Solid Waste Association (RSWA): Primary-Zito, Alternate-MacDonald
- k. SANDAG: Primary-Heebner, 1st Alternate-Zito, 2nd Alternate-Edson. Subcommittees determined by its members.
- I. SANDAG Shoreline Preservation Committee: Primary-Becker, Alternate-Zito
- m. San Dieguito River Valley JPA: Primary-MacDonald, Alternate-Becker
- n. San Elijo JPA: Primary-Zito, Primary-Becker, Alternate-City Manager
- o. 22nd Agricultural District Association Community Relations Committee: Primary-Edson, Primary-Heebner
- STANDING COMMITTEES: (All Primary Members) (Permanent Committees)
- a. Business Liaison Committee Zito, Edson
- b. Fire Dept. Management Governance & Organizational Evaluation Edson, MacDonald
- c. Highway 101 / Cedros Ave. Development Committee Heebner, Edson
- d. Parks and Recreation Committee Zito, Edson
- e. Public Arts Committee Edson, Heebner
- f. School Relations Committee Becker, MacDonald

§

g. Solana Beach-Del Mar Relations Committee – Heebner, Edson

CITIZEN COMMISSION(S)

a. Climate Action Commission - Zito, Becker

ADJOURN:

Next Regularly Scheduled Meeting is January 24, 2024

Always refer to the City's website Event Calendar for an updated schedule or contact City Hall. <u>www.cityofsolanabeach.org</u> 858-720-2400

AFFIDAVIT OF POSTING

STATE OF CALIFORNIA COUNTY OF SAN DIEGO CITY OF SOLANA BEACH

I, Angela Ivey, City Clerk of the City of Solana Beach, do hereby certify that this Agenda for the January 10, 2024 Council Meeting was called by City Council, Successor Agency to the Redevelopment Agency, Public Financing Authority, and the Housing Authority of the City of Solana Beach, California, was provided and posted on January 3, 2024 at 5:30 p.m. on the City Bulletin Board at the entrance to the City Council Chambers. Said meeting is held at 6:00 p.m., January 10, 2024, in the Council Chambers, at City Hall, 635 S. Highway 101, Solana Beach, California.

Angela Ivey, City Clerk City of Solana Beach, CA

UPCOMING CITIZEN CITY COMMISSION AND COMMITTEE MEETINGS:

Regularly Scheduled, or Special Meetings that have been announced, are posted on each Citizen Commission's Agenda webpage. See the <u>Citizen Commission's Agenda webpages</u> or the City's Events <u>Calendar</u> for updates.

- 0
- Budget & Finance Commission Climate Action Commission 0
- Parks & Recreation Commission 0
- Public Arts Commission
- View Assessment Commission

CITY OF SOLANA BEACH

SOLANA BEACH CITY COUNCIL, SUCCESSOR AGENCY TO THE REDEVELOPMENT AGENCY, PUBLIC FINANCING AUTHORITY, & HOUSING AUTHORITY



MINUTES

Joint Meeting - Closed Session Wednesday, December 13, 2023 5:00 p.m.

City Hall / Council Chambers, 635 S. Highway 101, Solana Beach, California

	CITY COUNCILMEMB	ERS
	Lesa Heebner Mayor	
David A. Zito Deputy Mayor / Councilmem		Jewel Edson Councilmember District 3
Kristi Becker Councilmember Dist	rict 2	Jill MacDonald Councilmember District 4
Gregory Wade City Manager	Johanna Canlas City Attorney	Angela Ivey City Clerk

CALL TO ORDER AND ROLL CALL:

Mayor Heebner called the meeting to order at 5:00 p.m.

Present: Lesa Heebner, Jewel Edson, Kristi Becker, Jill MacDonald, David A. Zito

- Absent: None
- Also Greg Wade, City Manager
- Present: Johanna Canlas, City Attorney Angela Ivey, City Clerk Dan King, Assistant City Manager Mo Sammak, City Engineer/Public Works Dir. Rachel Jacobs, Finance Dir. Joseph Lim, Community Development Dir.

PUBLIC COMMENT ON CLOSED SESSION ITEMS (ONLY): None

Report to Council Chambers and submit speaker slips to the City Clerk before the meeting recesses to closed session.

CLOSED SESSION:

1. PUBLIC EMPLOYEE

Pursuant to Government Code Section 54957 City Manager

 CONFERENCE WITH LEGAL COUNSEL – INITIATION OF LITIGATION Pursuant to Government Code Section 54956.9(d)(4) One (1) Potential case.

AGENDA ITEM A.1.

3. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

Pursuant to Government Code Section 54956.9(d)(2) One (1) Potential case.

4. CONFERENCE WITH REAL PROPERTY NEGOTIATOR

Pursuant to Government Code section 54956.8 Property: APN: 263-352-03,04,05,06 and 07 and 263-342-02 City Negotiators: City Manager Greg Wade and City Attorney Johanna Canlas Negotiating Parties: Tracy Foster and Lori Winfree, North County Transit District Under negotiation: Purchase Price and Terms

ADJOURN:

Mayor Heebner adjourned the meeting at 6:00 p.m.

CITY OF SOLANA BEACH

SOLANA BEACH CITY COUNCIL, SUCCESSOR AGENCY TO THE REDEVELOPMENT AGENCY, PUBLIC FINANCING AUTHORITY, & HOUSING AUTHORITY



MINUTES

Joint REGULAR Meeting

Wednesday, December 13, 2023 * 6:00 p.m.

City Hall / Council Chambers, 635 S. Highway 101, Solana Beach, California

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CITY COUNCILI		
Lesa Hee		
Mayo	ſ	
Jewel Edson	Kristi Becker	
Deputy Mayor / Councilmember District 3	Councilmember District 2	
Jill MacDonald	David A. Zito	
Councilmember District 4	Councilmember District 1	

Gregory Wade City Manager Johanna Canlas City Attorney Angela Ivey City Clerk

CALL TO ORDER AND ROLL CALL:

Mayor Heebner called the meeting to order at 6:10 p.m.

Present: Lesa Heebner, Jewel Edson, Kristi Becker, Jill MacDonald, David A. Zito Absent: None

Also Greg Wade, City Manager

Present: Johanna Canlas, City Attorney Angela Ivey, City Clerk Dan King, Assistant City Manager Mo Sammak, City Engineer/Public Works Dir. Rachel Jacobs, Finance Dir. Joseph Lim, Community Development Dir.

CLOSED SESSION REPORT: None

FLAG SALUTE:

PRESENTATIONS: Ceremonial items that do not contain in-depth discussion and no action/direction.

• Legislative Priorities

Kyra Ross, Emanual Jones, presented a PowerPoint (on file) reviewing legislative items, state budget, and the 2024 ballot.

APPROVAL OF AGENDA:

Motion: Moved by Deputy Mayor Zito and second by Councilmember Edson to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

ORAL COMMUNICATIONS: None

Comments relating to items on this evening's agenda are taken at the time the items are heard. This portion of the agenda provides an opportunity for members of the public to address the City Council on items relating to City business and <u>not appearing on today's agenda</u> by submitting a speaker slip (located on the back table) to the City Clerk. Pursuant to the Brown Act, no action shall be taken by the City Council on public comment items. Council may refer items to the City Manager for placement on a future agenda. The maximum time allotted for each presentation is THREE MINUTES. No donations of time are permitted (SBMC 2.04.190). Please be aware of the timer light on the Council Dais.

COUNCIL COMMUNITY ANNOUNCEMENTS / COMMENTARY:

An opportunity for City Council to make brief announcements or report on their activities. These items are not agendized for official City business with no action or substantive discussion.

C. STAFF REPORTS: (C.1.)

Submit speaker slips to the City Clerk.

All speakers should refer to the public comment section at the beginning of the agenda for time allotments. Please be aware of the timer light on the Council Dais.

C.1. Annual Deputy Mayor Appointment. (File 0410-85)

Recommendation: That the City Council

1. Review and designate an appointment of the 2024 Deputy Mayor for a term of December 13, 2023 to December 11, 2024.

Item C.1. Report (click here)

Motion: Moved by Mayor Heebner and second by Deputy Mayor Zito to appoint Jewel Edson as Deputy Mayor until December 11, 2024. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A. CONSENT CALENDAR: (Action Items) (A.1. - A.7.)

Items listed on the Consent Calendar are to be acted in a single action of the City Council unless pulled for discussion. Any member of the public may address the City Council on an item of concern by submitting to the City Clerk a speaker slip (located on the back table) before the Consent Calendar is addressed. Those items removed from the Consent Calendar by a member of the <u>Council</u> will be trailed to the end of the agenda, while Consent Calendar items removed by the <u>public</u> will be heard immediately after approval of the Consent Calendar to hear the public speaker.

All speakers should refer to the public comment section at the beginning of the agenda for details. Please be aware of the timer light on the Council Dais.

A.1. Minutes of the City Council.

Recommendation: That the City Council

1. Approve the Minutes of the City Council meetings held on November 8, 2023.

Approved Minutes <u>https://www.cityofsolanabeach.org/en/government/public-meetings/agendas-minutes-videos</u>

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.2. Register Of Demands. (File 0300-30)

Recommendation: That the City Council

1. Ratify the list of demands for November 10, 2023 – November 24, 2023.

Item A.2. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.3. General Fund Adopted Budget for Fiscal Year 2023/2024 Changes. (File 0330-30)

Recommendation: That the City Council

1. Receive the report listing changes made to the Fiscal Year 2023-2024 General Fund Adopted Budget.

Item A.3. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.4. Fixed Asset Administrative Policy. (File 0380-10)

Recommendation: That the City Council

1. Adopt **Resolution 2023-125** approving and directing the City Manager to amend current policies to include this Fixed Asset Capitalization and Inventory Policy.

Item A.4. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.5. City Hall Exterior Painting and Stucco Repairs. (File 0710-20)

Recommendation: That the City Council

1. Adopt Resolution 2023-131:

- a. Awarding a construction contract for City Hall Exterior Painting and Stucco Repairs, Bid No. 2023-10, in the amount of \$47,745, to Polychrome Construction, Inc.
- b. Approving an amount of \$7,161 (15%) for construction contingency.
- c. Authorizing the City Manager to execute the construction contract on behalf of the City.
- d. Authorizing the City Manager to approve cumulative change orders up to the construction contingency amount.

Item A.5. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.6. Telecommunications Services. (File 190-60)

Recommendation: That the City Council

1. Adopt **Resolution 2023-130**, authorizing the City Manager to execute an agreement with CallTower for 3 years with two allowable 1-year extensions for a total contract amount of \$113,358.21.

Item A.6. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

A.7. City Manager Recruitment Services. (File 0550-50)

Recommendation: That the City Council

1. Adopt **Resolution 2023-133** approving the Professional Services Agreement for City Manager Recruitment Services between the City of Solana Beach and Alliance Resource Consulting LLC and authorizing the Mayor to execute the agreement.

Item A.7. Report (click here)

Motion: Moved by Councilmember Edson and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

B. PUBLIC HEARINGS: (B.1. – B.2.)

This portion of the agenda provides citizens an opportunity to express their views on a specific issue as required by law after proper noticing by <u>submitting a speaker slip</u> (located on the back table) to the <u>City Clerk</u>. After considering all of the evidence, including written materials and oral testimony, the City Council must make a decision supported by findings and the findings must be supported by substantial evidence in the record. An applicant or designee(s) for a private development/business project, for which the public hearing is being held, is allotted a total of fifteen minutes to speak, as per SBMC 2.04.210. A portion of the fifteen minutes may be saved to respond to those who speak in

opposition. All other speakers should refer to the public comment section at the beginning of the agenda for time allotment. Please be aware of the timer light on the Council Dais.

B.1. Schedule of User Fees and Charges Update. (File 0390-23)

Recommendation: That the City Council

- 1. Conduct the Public Hearing: Open the Public Hearing, Report Council Disclosures, Receive Public Testimony, and Close the Public Hearing.
- 2. Adopt **Resolution 2023-124** updating the Schedule of Fees and Charges effective January 1, 2024.

Item B.1. Report (click here)

Greg Wade, City Manager, introduced the item.

Rachel Jacobs, Finance Director, stated that the capped increase for this year would be 2.5% but that the actual CPI would have increased it by 5.2%.

Mayor Heebner opened the public hearing.

Motion: Moved by Deputy Mayor Zito and second by Councilmember Edson to close the public hearing. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

Council discussed the transportation impact fee increase of 15.22% and that the short-term vacation permit fee was low and would be coming back early 2024 for Council review during discussions on short-term vacation rentals.

Motion: Moved by Deputy Mayor Zito and second by Councilmember Edson to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

B.2. Public Hearing: 654 Glenmont Dr., Applicant: Saik, Case: DRP22-024. (File 0600-40)

The proposed project meets the minimum zoning requirements under the SBMC, may be found to be consistent with the General Plan and may be found, as conditioned, to meet the discretionary findings required as discussed in this report to approve a DRP. Therefore, Staff recommends that the City Council:

- 1. Conduct the Public Hearing: Open the Public Hearing, Report Council Disclosures, Receive Public Testimony, and Close the Public Hearing.
- 2. Find the project exempt from the California Environmental Quality Act pursuant to Section 15303 of the State CEQA Guidelines; and
- 3. If the City Council makes the requisite findings and approves the project, adopt **Resolution 2023-132** conditionally approving a DRP to demolish a single-story single-family residence, construct a replacement 2,861 square-foot, single-story single-family residence built above a 2,060 square-foot basement living area with

an 899 square-foot basement-level two-car garage, and perform associated improvements at 654 Glenmont Dr., Solana Beach.

<u>Item B.2. Report (click here)</u> <u>Item B.2. Updated Report #1 (added 12-12-23 at 5:45pm)</u> <u>Item B.2. Supplemental Docs (updated 12-13-23 at 4:25pm)</u>

Greg Wade, City Manager,

Katie Bensen, Associate Planner,

Mayor Heebner opened the public hearing.

Council disclosures.

Amanda Quipp, Applicant's Architect, presented a PowerPoint (on file) of the proposed project and that they settled on a single story rather than a second story structure to preserve views after discussion with the neighbors.

Shane Noroozi (time donated by Katherine Noroozi) said they lived behind the project, that the project would obstruct views by vegetation proposed in the landscape plans, that their primary view was the to west as sated at the October 26, 2022 Council meeting, that the landscape plan included a 10 ft. tall citrus tree in the backyard and a variety of 10 ft. shrubs atop 2 ft. planters which would reach 13 ft. or higher along the east property line and would exceed the maximum roof height, and that they requested that the landscape not be allowed to exceed the 10 ft. height above the backyard lawn grade.

Amanda Quipp stated that the proposed 10 ft. landscape of the tree and shrubs would not exceed the proposed rooftop.

Council and Applicant's Architects discussed that the hybrid of the plant chosen had a maximum of 10 ft. at maturity and that it was common practice to dig a 5 ft. deep trench to build the retaining wall without reinforcement, if the soil permits, without additional shoring.

Motion: Moved by Deputy Mayor Zito and second by Councilmember Becker to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

Motion: Moved by Deputy Mayor Zito and second by Councilmember Edson to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

C. STAFF REPORTS: (C.2. – C.4.)

Submit speaker slips to the City Clerk.

All speakers should refer to the public comment section at the beginning of the agenda for time allotments. Please be aware of the timer light on the Council Dais.

C.2. Army Corps Beach Sand Project Presentation.

No recommendation or report.

Greg Wade, City Manager, presented a PowerPoint (on file) reviewing the 50-year project.

Susie Ming, USACE, said that the contractor received Coastal approval today and would reach Solana Beach around the second to third week of January.

Council and Ms. Ming discussed the reasons for this project being conducted in the wintertime which included the environmental window to avoid the February – September nesting season of shore birds, the fact that there are less visitors at the beach when there will be beach closures, and the availability of the necessary dredge on the west coast.

C.3. Adopt (2nd Reading) Ordinance 525 – Accessory Dwelling Unit (ADU). (File 0610-10)

Recommendation: That the City Council

1. Adopt **Ordinance 525** (2nd Reading) amending the City's Accessory Dwelling Unit Ordinance Provisions.

<u>Item C.3. Report (click here)</u> <u>Item C.3. Supplemental Docs (updated 12-13-23 at 11:00am)</u>

Johanna Canlas, City Attorney, read the title.

Council and Staff discussed the state law removing the owner occupancy requirement for ADUs but not for Junior ADUs.

Motion: Moved by Deputy Mayor Zito and second by Councilmember Edson to approve. **Approved 5/0.** Ayes: Heebner, Zito, Edson, Becker, MacDonald. Noes: None. Motion carried unanimously.

C.4. Council Boards, Committees, Commissions Mid-Term Review. (File 0410-05)

Recommendation: That the City Council

- 1. Review the <u>Regional</u> Boards/Commissions/Committees and make alternate appointments, if necessary.
- 2. Review Council <u>Standing</u> Committees and make alternate appointments, if Necessary

Item C.4. Report (click here)

No changes to current terms.

WORK PLAN COMMENTS: None

Adopted June 28, 2023

COMPENSATION & REIMBURSEMENT DISCLOSURE: None

GC: Article 2.3. Compensation: 53232.3. (a) Reimbursable expenses shall include, but not be limited to, meals, lodging, and travel. 53232.3 (d) Members of a legislative body shall provide brief reports on meetings attended at the expense of the local agency "*City*" at the next regular meeting of the legislative body.

COUNCIL COMMITTEE REPORTS: Council Committees

REGIONAL COMMITTEES: (outside agencies, appointed by this Council) STANDING COMMITTEES: (All Primary Members) (*Permanent Committees*) CITIZEN COMMISSION(S)

ADJOURN:

Mayor Heebner adjourned the meeting at 7:57 p.m.



STAFF REPORT CITY OF SOLANA BEACH

TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT: Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 Finance **Register of Demands**

BACKGROUND:

Section 3.04.020 of the Solana Beach Municipal Code requires that the City Council ratify a register of demands which represents all financial demands made upon the City for the applicable period.

Register of Demands: 11/25/2023 through 12/15/2023

TOTAL		\$	2,520,495.48
Net Payroll Staff O12	December 8, 2023	_	385,902.05
Net Payroll Council	December 14, 2023		4,591.04
Net Payroll Retiree Health	December 6, 2023		3,408.00
Check Register - Disbursement Fund (Attachment 1)	_	\$	2,126,594.39

DISCUSSION:

Staff certifies that the register of demands has been reviewed for accuracy, that funds are available to pay the above demands, and that the demands comply with the adopted budget.

CEQA COMPLIANCE STATEMENT:

Not a project as defined by CEQA.

FISCAL IMPACT:

The register of demands for November 25, 2023 through December 15, 2023 reflects total expenditures of \$2,520,495.48 from various City sources.

WORK PLAN:

N/A

CITY COUNCIL ACTION:

OPTIONS:

- Ratify the register of demands.
- Do not ratify and provide direction.

DEPARTMENT RECOMMENDATION:

Staff recommends that the City Council ratify the above register of demands.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation.

Gregory Wade, City Manager

Attachments:

1. Check Register – Disbursement Fund

Page: 1 of 10



City of Solana Beach

Register of Demands 11/25/2023 - 12/15/2023

Department Vendor	Description	Date	Check/EFT Number	Amoun
100 - GENERAL FUND		2 410		
MISSION SQUARE PLAN 302817	Payroll Run 1 - Warrant O12	12/07/2023	9001175	\$17,413.5
MISSION SQUARE PLAN 302817	Payroll Run 2 - Warrant OC6	12/15/2023	9001186	\$4,756.3
CITY OF DEL MAR	RIEMB-SPRING 23 CLASS# 32114	12/07/2023	106018	\$567.0
SOLANA BEACH FIREFIGHTERS ASSOC	Payroll Run 1 - Warrant O12	12/07/2023	9001177	\$900.0
US BANK	REIMBURSED COST	12/15/2023	106046	\$105.0
AFLAC	NOVEMBER 23	12/07/2023	106017	\$789.7
SUN LIFE FINANCIAL	NOV 23-LIFE&ADD INS	12/15/2023	9001192	\$1,597.8
SUN LIFE FINANCIAL	NOV 23-SUPP LIFE INS	12/15/2023	9001192	(\$2,348.20
SUN LIFE FINANCIAL	NOV 23-LTD	12/15/2023	9001192	\$1,866.3
SUN LIFE FINANCIAL	NOV 23-SUPP LIFE INS ADD PAYMENT	12/15/2023	9001192	\$298.8
SUN LIFE FINANCIAL	DEC 23-LIFE&ADD INS	12/07/2023	9001180	\$1,620.8
SUN LIFE FINANCIAL	DEC 23-SUPP LIFE INS	12/07/2023	9001180	(\$52.21
SUN LIFE FINANCIAL	DEC 23-LTD	12/07/2023	9001180	\$1,911.8
DIVISION OF THE STATE ARCHITECT	FY Q1-SB1186 PTMNT	12/07/2023	106022	\$62.0
ABEL PEREZ	RE-ISSUE CK#96757-MILEAGE-02/19/20	12/07/2023	9001169	\$8.1
SIVED GUTIERREZ	CXL-FEB 24 WEDDING	12/07/2023	106034	\$103.5
SIVED GUTIERREZ	CXL-FEB 24 WEDDING	12/07/2023	106034	\$76.4
CALPERS	O12 PERS 12/08/23 PD (12/14/23 PERS)	12/14/2023	9121423	\$65,177.4
CALPERS	O11 PERS 11/24/29 PD (11/29/23 PERS)	11/29/2023	9112923	\$64,066.4
CALPERS	OC5 PERS 11/09/23 PD (12/05/23 PERS)	12/05/2023	9120523	\$766.9
STERLING HEALTH SERVICES, INC.	O11 FSA/SCA CONTRIBUTION	12/07/2023	9001178	\$1,442.9
STERLING HEALTH SERVICES, INC.	O11 FSA/SCA CONTRIBUTION	12/07/2023	9001178	\$611.6
STERLING HEALTH SERVICES, INC.	012 FSA/DCA CONTRIBUTIONS	12/15/2023	9001191	\$611.6
STERLING HEALTH SERVICES, INC.	012 FSA/DCA CONTRIBUTIONS	12/15/2023	9001191	\$1,570.0
FIDELITY SECURITY LIFE INSURANCE COMPANY		12/07/2023	106024	\$548.6
IAFF-MERP	NOV 23-FF TRUST	11/30/2023	9001167	\$4,825.0
SELF INSURED SERVICES COMPANY	DEC 23-DENTAL	12/07/2023	9001171	\$2,764.3
LAMAR GOING	RFND-ENC23-0043	11/30/2023	106006	\$560.0
PRE-PAID LEGAL SERVICES, INC	NOV 23-PPD LEGAL	12/07/2023	106030	\$25.9
PRE-PAID LEGAL SERVICES, INC	NOV 23-PPD LEGAL	12/07/2023	106030	\$0.0
REED FAMILY TRUST	RFND:DRP21-023/SDP21-025/SMAP21-001	12/15/2023	106061	\$14,820.0
REED FAMILY TRUST	RFND:DRP21-023/SDP21-025/SMAP21-001	12/15/2023	106061	\$472.5
REED FAMILY TRUST	RFND:DRP21-023/SDP21-025/SMAP21-001	12/15/2023	106061	\$548.0
				\$188,488.5
1005100 - CITY COUNCIL				,,
JILL MACDONALD	RFND-LEAGUE OF CA CITIES CONF	12/07/2023	106026	\$964.9
JILE MACDONALD			100020	
	TOTAL CITY COU	JINCIL		\$964.9
1005150 - CITY CLERK		1010-1000-	40000-	
	DEC 23-STORAGE	12/07/2023	106025	\$527.7
	NOV 23- STORAGE	12/07/2023	106025	\$878.7
US BANK		12/15/2023	106046	\$16.3
US BANK	NEW LAW SEMINAR	12/15/2023	106046	\$325.0

ATTACHMENT 1

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US BANK	INDEX CARDS	12/15/2023	106046	\$10.60
US BANK	WALL MOUNT	12/15/2023	106046	\$30.42
US BANK	CARD POCKETS	12/15/2023	106046	\$27.99
US BANK	MARKER HOLDER	12/15/2023	106046	\$36.88
US BANK	QUICKRETE	12/15/2023	106046	\$10.71
US BANK	CANCELLED TRAINING	12/15/2023	106046	(\$150.00)
US BANK	IIMC RENEWAL	12/15/2023	106046	\$125.00
US BANK	NEW LAW SEMINAR	12/15/2023	106046	\$325.00
US BANK	TRANSCRIPTION SERVICES	12/15/2023	106046	\$35.00
US BANK	CITIZEN COMM ADVERTISING	12/15/2023	106046	\$300.00
US BANK	CITIZEN COMM ADVERTISING	12/15/2023	106046	\$300.00
US BANK	TRANSCRIPTION SERVICES	12/15/2023	106046	\$46.25
US BANK	PACKING SUPPLIES	12/15/2023	106046	\$78.95
UT SAN DIEGO - NRTH COUNTY	ORD 525-INTRO	12/07/2023	106038	\$104.65
CODE PUBLISHING COMPANY INC	ORD 531- WEB UPDATE	12/07/2023	106020	\$117.50
ECS IMAGING INC	LASERFICHE SITE LICENSE/CLOUD/WEBPORTAL	11/30/2023	106004	\$17,900.00
PERFECT IMAGE VIDEO	ORDER #13-COUNCIL CONVERSION	12/07/2023	106029	\$698.60
STAPLES CONTRACT & COMMERCIAL	WALL CLOCK	12/07/2023	106035	\$28.70
	TOTAL CITY CLE	RK		\$21,774.03
1005200 - CITY MANAGER				
US BANK	CERTIFICATE SEALS	12/15/2023	106046	\$93.68
US BANK	CERTIFICATE PAPER	12/15/2023	106046	\$13.92
KEYSER MARSTON ASSOCIATES, INC	AUG 23- CONSULTING SERVICES	12/07/2023	106027	\$888.75
KEYSER MARSTON ASSOCIATES, INC	NOV 23-KMA CONSULTING SERVICES	12/15/2023	106055	\$1,235.00
EMANUELS JONES AND ASSOCIATES	OCT 23-LOBBYING CONSULTING SERVICES	12/07/2023	9001173	\$2,704.00
EMANUELS JONES AND ASSOCIATES	NOV 23-LOBBYING CONSULTING SVC/FY Q1 REPOR	T 12/07/2023	9001173	\$2,779.00
	FILING TOTAL CITY MANAG	GER	_	\$7,714.35
1005250 - LEGAL SERVICES				
BURKE WILLIAMS & SORENSEN	SEP 23-RETAINER	12/15/2023	9001182	\$13,024.00
BURKE WILLIAMS & SORENSEN	96-0014-SEP 23-PROF SVC	12/15/2023	9001182	\$2,513.60
BURKE WILLIAMS & SORENSEN	96-0019-SEP 23-PROF SVC	12/15/2023	9001182	\$92.40
BURKE WILLIAMS & SORENSEN	96-0038-SEP 23-PROF SVC	12/15/2023	9001182	\$1,161.60
BURKE WILLIAMS & SORENSEN	96-0040-SEP 23-PROF SVC	12/15/2023	9001182	\$25.40
BURKE WILLIAMS & SORENSEN	96-0040.002-SEP 23-PROF SVC	12/15/2023	9001182	\$53.51
BURKE WILLIAMS & SORENSEN	96-0001-SEP 23-PROF SVC	12/15/2023	9001182	\$4,458.30
BURKE WILLIAMS & SORENSEN	96-0001.002-SEP 23-PROF SVC	12/15/2023	9001182	\$2,631.60
BURKE WILLIAMS & SORENSEN	96-0006-SEP 23-PROF SVC	12/15/2023	9001182	\$1,240.80
BURKE WILLIAMS & SORENSEN	OCT 23-RETAINER	12/15/2023	9001182	\$13,024.00
BURKE WILLIAMS & SORENSEN	96-0014-OCT 23-PROF SVC	12/15/2023	9001182	\$2,940.20
BURKE WILLIAMS & SORENSEN	96-0023-OCT 23-PROF SVC	12/15/2023	9001182	\$300.30
BURKE WILLIAMS & SORENSEN	96-0037.003-OCT 23-PROF SVC	12/15/2023	9001182	\$1,082.40
BURKE WILLIAMS & SORENSEN	96-0038-OCT 23-PROF SVC	12/15/2023	9001182	\$8,575.27
BURKE WILLIAMS & SORENSEN	96-0040.004-OCT 23-PROF SVC	12/15/2023	9001182	\$438.90
BURKE WILLIAMS & SORENSEN	96-0001-OCT 23-PROF SVC	12/15/2023	9001182	\$1,362.90
BURKE WILLIAMS & SORENSEN	96-0002-OCT 23-PROF SVC	12/15/2023	9001182	\$52.80
BURKE WILLIAMS & SORENSEN	96-0006-OCT 23-PROF SVC	12/15/2023	9001182	\$2,851.20
BURKE WILLIAMS & SORENSEN	96-0006.001-OCT 23-PROF SVC	12/15/2023	9001182	\$739.20
	TOTAL LEGAL SERVIO	CES		\$56,568.38

1005300 - FINANCE

US BANK

106046

\$8.99

Page: 2 of 10

				Page: 3 of 10
US BANK	CSMFO MEMBERSHIP	12/15/2023	106046	\$135.00
US BANK	CSMFO CONFERENCE	12/15/2023	106046	\$550.00
US BANK	CSMFO CONFERENCE HOTEL	12/15/2023	106046	\$384.93
US BANK	GFOA BUDGET AWARD FEE	12/15/2023	106046	\$690.00
US BANK	CSMFO BUDGET AWARD FEE	12/15/2023	106046	\$150.00
THE ARTINA GROUP	CHECKS	12/07/2023	106037	\$848.20
AMAZON.COM SALES, INC	CHALK BOARDS/MARKERS	12/07/2023	9001170	\$68.73
STAPLES CONTRACT & COMMERCIAL	3 HOLE PUNCH/PENS	12/07/2023	106035	\$57.76
STAPLES CONTRACT & COMMERCIAL	PLANNER/WHITE OUT	12/07/2023	106035	\$19.32
	TOTAL FINAL	NCE		\$2,912.93
1005350 - SUPPORT SERVICES				
READY REFRESH BY NESTLE	NOV 23-DRINKING WATER-PW	12/15/2023	9001188	\$63.35
READY REFRESH BY NESTLE	NOV 23- DRINKING WATER-LC	12/15/2023	9001188	\$39.97
READY REFRESH BY NESTLE	NOV 23- DRINKING WATER-CH	12/15/2023	9001188	\$366.55
AMAZON.COM SALES, INC	POWER STRIP	12/07/2023	9001170	\$41.89
AMAZON.COM SALES, INC	PAPER BOWLS/PLATES/FORKS/SPOONS	12/07/2023	9001170	\$103.48
STAPLES CONTRACT & COMMERCIAL	FILE PKT/HNG FLDRS/BATTERIES/AIR DUSTER	12/07/2023	106035	\$184.23
STAPLES CONTRACT & COMMERCIAL	PLANNER/WHITE OUT	12/07/2023	106035	\$24.28
	TOTAL SUPPORT SERVI	ICES		\$823.75
1005400 - HUMAN RESOURCES				
SHARP REES-STEALY MEDICAL GROUP	PRE-EMPLOYMENT SCREENING	12/15/2023	9001190	\$464.00
US BANK	REFUND NAME PLATES	12/15/2023	106046	(\$16.31)
US BANK	FAREWELL GIFT	12/15/2023	106046	\$695.00
US BANK	PERSONNEL FILES	12/15/2023	106046	\$43.49
RYAN PESTER	RFND-BS FIRE ADMINISTRATION	12/07/2023	106032	\$845.00
ALTA LANGUAGE SERVICES, INC	LANGUAGE TEST	12/15/2023	9001181	\$68.00
COASTAL LIVE SCAN AND INSURANCE	NOV 23-FINGERPRINTS	12/15/2023	106049	\$60.00
ROBERT MCPHEE	TUITION REIMB-EXEC LEADERSHIP/PRINC OF SAFET	y 12/15/2023	106062	\$2,000.00
	TOTAL HUMAN RESOUR	CES		\$4,159.18
1005450 - INFORMATION SERVICES				
US BANK	CONSTANT CONTACT	12/15/2023	106046	\$86.00
US BANK	MISAC CONFERNCE	12/15/2023	106046	\$1,020.67
US BANK	MOBILE DEVICE MANAGEMENT	12/15/2023	106046	\$72.00
WESTERN AUDIO VISUAL	JUL 23-AUDIO VISUAL MNT	12/07/2023	106039	\$499.00
WESTERN AUDIO VISUAL	AUG 23-AUDIO VISUAL MNT	12/07/2023	106039	\$499.00
WESTERN AUDIO VISUAL	SEP 23-AUDIO VISUAL MNT	12/07/2023	106039	\$499.00
WESTERN AUDIO VISUAL	OCT 23-AUDIO VISUAL MNT	12/07/2023	106039	\$499.00
WESTERN AUDIO VISUAL	NOV 23-AUDIO VISUAL MNT	12/07/2023	106039	\$499.00
TING FIBER INC.	NOV 23-Fiber Optic-SB FACILITIES	12/15/2023	9001193	\$3,249.00
AMAZON.COM SALES, INC	LABEL TAPE/HDMI CORD/MEASURING TAPE	12/07/2023	9001170	\$68.37
AMAZON.COM SALES, INC	USB C CABLE	12/07/2023	9001170	\$18.45
AMAZON.COM SALES, INC	DISPLAY PORT TO VGA ADAPTER	12/07/2023	9001170	\$42.35
	TOTAL INFORMATION SERVI	ICES		\$7,051.84
1005550 - PLANNING				
UT SAN DIEGO - NRTH COUNTY	PUB HRNG-DRP22-024	12/07/2023	106038	\$469.42
	TOTAL PLANN	ING		\$469.42
1005560 - BUILDING SERVICES				
ESGIL CORPORATION	OCT 23-BUILDING AND SAFETY PLAN REVIEW	12/07/2023	106023	\$43,464.17
ESGIL CORPORATION	NOV 23-BUILDING AND SAFETY PLAN REVIEW	12/15/2023	106054	\$58,549.63
	TOTAL BUILDING SAND SAN ETT PLAN REVIEW		-	\$102,013.80

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1005590 - CODE ENFORCEMENT				
US BANK	CODES WATERPROOF JACKET	12/15/2023	106046	\$143.42
US BANK	CODES CAR WASH	12/15/2023	106046	\$8.00
DATATICKET INC.	OCT 23-PARKING CITATION SERVICES	12/07/2023	106021	\$175.00
DATATICKET INC.	OCT 23-PARKING CITATION SERVICES	12/07/2023	106021	\$1,335.52
DATATICKET INC.	JAN 23-PARKING CITATION SERVICES	12/07/2023	106021	\$333.48
VERIZON WIRELESS-SD	442224168 - 10/24/23-11/23/23	12/15/2023	106067	\$141.27
	TOTAL CODE ENFORCE	EMENT		\$2,136.69
1006120 - FIRE DEPARTMENT				
SANTA FE IRRIGATION DISTRICT	005512-000-09/02/23-11/01/23	12/07/2023	106033	\$882.07
	TOTAL FIRE DEPART	ſMENT		\$882.07
1006130 - ANIMAL CONTROL				
HABITAT PROTECTION, INC	DEAD ANIMAL REMOVAL	12/07/2023	9001174	\$145.00
	TOTAL ANIMAL CO	NTROL		\$145.00
1006170 - MARINE SAFETY				
DAY WIRELESS SYSTEMS (20)	RECIEVER FIXED	12/15/2023	106050	\$425.00
US BANK	SNORKELS (4)	12/15/2023	106046	\$50.00
US BANK	WIPER BLADE	12/15/2023	106046	\$11.95
US BANK	TOWER MOVE SUPPLIES	12/15/2023	106046	\$80.67
US BANK	WIPER BLADES	12/15/2023	106046	\$23.90
US BANK	ATV 2487 TUNE UP	12/15/2023	106046	\$679.85
US BANK	SCUBA TANK INSPECTION/FILL	12/15/2023	106046	\$28.50
US BANK	WET SUIT	12/15/2023	106046	\$182.70
US BANK	МОР	12/15/2023	106046	\$35.88
US BANK	TOW ROPES	12/15/2023	106046	\$27.39
US BANK	PWC 2492 OIL FILTER	12/15/2023	106046	\$50.97
US BANK	2485 OIL CHANGE	12/15/2023	106046	\$66.45
US BANK	WET SUIT/HOOD	12/15/2023	106046	\$372.36
US BANK	2481 BATTERY REPLACEMENT	12/15/2023	106046	\$254.56
US BANK	WETSUIT	12/15/2023	106046	\$331.69
US BANK	SNORKEL CLIP, WIPER BLADE	12/15/2023	106046	\$21.73
	TOTAL MARINE S	SAFETY		\$2,643.60
1006510 - ENGINEERING				
US BANK	APWA LUNCHEON	12/15/2023	106046	\$45.00
US BANK	DOOR HANGERS	12/15/2023	106046	\$21.74
US BANK	PE LICENSE RENEWAL	12/15/2023	106046	\$90.00
UNDERGROUND SVC ALERT OF SOCAL INC	NOV 23-DIG ALERT	12/15/2023	9001194	\$67.75
	TOTAL ENGINE	ERING		\$224.49
1006520 - ENVIRONMENTAL SERVICES				
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$13.12
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$13.13
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/07/2023	106028	\$13.13
CITY OF CARLSBAD	FY 24-WQIP COST SHARE	12/15/2023	106048	\$2,443.00
SANTA FE IRRIGATION DISTRICT	005506-014-11/02/23-12/01/23	12/15/2023	106064	\$284.06
SANTA FE IRRIGATION DISTRICT	005506-014-10/03/23-11/01/23	12/07/2023	106033	\$256.07
US BANK	AP-6" HOSE	12/15/2023	106046	\$644.35
SAN ELIJO JPA	Q3-OPERATIONS & MAINTENANCE	12/15/2023	106063	\$2,972.00
				, ,
DOG WASTE DEPOT	DOG WASTE BAGS	12/15/2023	106052	\$2,405.52

TOTAL ENVIRONMENTAL SERVICES

Page: 4 of 10

1006530 - STREET MAINTENANCE

MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$21.33
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$21.33
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/07/2023	106028	\$21.33
DIXIELINE LUMBER CO INC	PAINT BRUSH	12/15/2023	106051	\$19.56
SANTA FE IRRIGATION DISTRICT	011695-000-11/02/23-12/01/23	12/15/2023	106064	\$91.05
SANTA FE IRRIGATION DISTRICT	011695-000-10/03/23-11/01/23	12/07/2023	106033	\$93.71
SDG&E CO INC	10/06/23-11/06/23-UTILITIES	11/30/2023	106010	\$1,129.80
SDG&E CO INC	10/01/23-11/06/23-UTILITIES	11/30/2023	106010	\$719.61
SUNBELT RENTALS, INC.	BRUSH CUTTER RENTAL/CREDIT	12/07/2023	106036	\$161.36
WEST COAST ARBORISTS, INC.	NOV 23- CITY-WIDE TREE MAINTENANC	11/30/2023	106013	\$5,068.05

TOTAL STREET MAINTENANCE

1006540 - TRAFFIC SAFETY

3 9001168 \$1,272.00 3 9001168 \$1,120.00
3 9001168 \$1,272.00
3 9001166 \$5,790.00
3 106045 \$65.27
3 9001189 \$7,879.50
3 106010 \$656.93
3 106010 \$1,524.93
,

1006550 - STREET CLEANING

SANTA FE IRRIGATION DISTRICT	011695-000-11/02/23-12/01/23	12/15/2023	106064	\$53.48
SANTA FE IRRIGATION DISTRICT	011695-000-10/03/23-11/01/23	12/07/2023	106033	\$55.04
PRIDE INDUSTRIES	NOV 23-TRASH ABATEMENT SERVICES	12/15/2023	106059	\$569.25

1006560 - PARK MAINTENANCE

MISSION LINEN & UNIFORM INC MISSION LINEN & UNIFORM INC MISSION LINEN & UNIFORM INC RANCHO SANTA FE SECURITY SYS INC SANTA FE IRRIGATION DISTRICT SANTA FE IRRIGATION DISTRICT

TOTAL STREET CLEANING			\$677.77
UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$15.59
UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$15.59
UNIFORM SERVICES FOR PUBLIC WORKS	12/07/2023	106028	\$15.59
DEC 23-SECURITY PTRL	12/15/2023	106060	\$661.10
005506-018 - 11/02/23-12/01/23	12/15/2023	106064	\$334.43
005506-019 - 11/02/23-12/01/23	12/15/2023	106064	\$1,013.85
005979-005 -10/03/23-12/01/23	12/15/2023	106064	\$442.00
005506-018-ONE MONTH-OCT 23	12/07/2023	106033	\$541.21
005506-019-ONE MONTH-OCT 23	12/07/2023	106033	\$908.35
005506-000-SEP-OCT 23	12/07/2023	106033	\$127.36
005506-001-SEP-OCT 23	12/07/2023	106033	\$94.48
005979-001-SEP-OCT 23	12/07/2023	106033	\$111.78
012448-000-SEP-OCT 23	12/07/2023	106033	\$150.40
012448-001-SEP-OCT 23	12/07/2023	106033	\$99.18
005506-009-SEP-OCT 23	12/07/2023	106033	\$94.48
005506-010-SEP-OCT 23	12/07/2023	106033	\$219.37
005506-011-SEP-OCT 23	12/07/2023	106033	\$371.65
005506-012-SEP-OCT 23	12/07/2023	106033	\$1,761.73
005506-013-SEP-OCT 23	12/07/2023	106033	\$148.78
005506-002-SEP-OCT 23	12/07/2023	106033	\$409.66
005506-004-SEP-OCT 23	12/07/2023	106033	\$94.48
005506-005-SEP-OCT 23	12/07/2023	106033	\$249.04
005506-006-SEP-OCT 23	12/07/2023	106033	\$150.40
005506-007-SEP-OCT 23	12/07/2023	106033	\$116.20

\$7,347.13

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SANTA FE IRRIGATION DISTRICT	005506-015-09/16/23-11/015/23	12/07/2023	106033	\$238.08
SANTA FE IRRIGATION DISTRICT	005506-016-09/16/23-11/015/23	12/07/2023	106033	\$1,027.20
SANTA FE IRRIGATION DISTRICT	005979-003-09/16/23-11/015/23	12/07/2023	106033	\$794.36
AA FARNSWORTH'S BACKFLOW SERVICES	ANNUAL BACKFLOW TEST	12/15/2023	106043	\$606.95
NISSHO OF CALIFORNIA	OCT 23- LANDSCAPING SERVICES	12/15/2023	9001187	\$1,476.62
ABEL PEREZ	MILEAGE-04/16 & 04/18/22	12/07/2023	106014	\$8.19
SUNBELT RENTALS, INC.	BRUSH CUTTER RENTAL/CREDIT	12/07/2023	106036	(\$105.24)
THE HOME DEPOT PRO	CLOROX/LINERS	11/30/2023	106012	\$833.14
WEST COAST ARBORISTS, INC.	NOV 23- TREE MAINTENANCE	12/15/2023	106068	\$1,908.60
WEST COAST ARBORISTS, INC.	NOV 23- CITY-WIDE TREE MAINTENANC	11/30/2023	106013	\$272.85
ARTURO ZERMENO	MILEAGE-12/03/23	12/15/2023	106044	\$34.06
BJS&T ENTERPRISES, INC.	BENCH UPDATING	12/07/2023	106040	\$1,380.55
	TOTAL PARK MAINTENANC	E		\$16,622.06
1006570 - PUBLIC FACILITIES				
DIXIELINE LUMBER CO INC	LIGHT BULBS	11/30/2023	106003	\$27.39
DIXIELINE LUMBER CO INC	LED LIGHT	12/15/2023	106051	\$137.03
DIXIELINE LUMBER CO INC	PLYWOOD	12/15/2023	106051	\$33.58
DIXIELINE LUMBER CO INC	PAINT/CLAMP/ANCHOR TOOL	12/15/2023	106051	\$66.70
DIXIELINE LUMBER CO INC	CLOSET REBUILD KIT	12/15/2023	106051	\$35.88
DIXIELINE LUMBER CO INC	CLOSET KIT/GLOVES/CAR WASH	12/15/2023	106051	\$92.04
SANTA FE IRRIGATION DISTRICT	005506-008-SEP-OCT 23	12/07/2023	106033	\$507.40
SDG&E CO INC	10/06/23-11/06/23-UTILITIES	11/30/2023	106010	\$8,097.26
SDG&E CO INC	10/01/23-11/06/23-UTILITIES	11/30/2023	106010	\$2,910.47
US BANK	CAR PROTECTANT REFILL	12/15/2023	106046	\$48.38
US BANK	CAR CLEANING WIPES	12/15/2023	106046	\$13.77
US BANK	TOILET BOWL CLEANER TABLETS	12/15/2023	106046	\$18.47
US BANK	DRY ERASE BOARD	12/15/2023	106046	\$54.36
US BANK	MOUSE PAD	12/15/2023	106046	\$14.13
US BANK	MS POWER SUPPLY	12/15/2023	106046	\$163.10
CONSOLIDATED ELECTRICAL DIST INC	LAMPS	12/15/2023	9001184	\$1,309.16
CONSOLIDATED ELECTRICAL DIST INC	LAMPS	12/15/2023	9001184	(\$185.33)
SAN ELIJO JPA	FY 23 CLOSE-OUT/BOARD OF DIRECTORS PER DIEM	12/15/2023	106063	(\$6,213.00)
SAN ELIJO JPA	Q3-OPERATIONS & MAINTENANCE	12/15/2023	106063	\$3,877.00
24 HOUR ELEVATOR, INC	DEC 23-FY24 ELEVATOR PREVENTATIVE MAINT	12/15/2023	106041	\$194.48
ABEL PEREZ	MILEAGE-04/16 & 04/18/22	12/07/2023	106014	\$8.19
CINTAS CORPORATION NO. 2	FIRST AID SUPPLIES-PW	12/15/2023	106047	\$36.32
HABITAT PROTECTION, INC	NOV 23- PEST CONTROL-CH	12/07/2023	9001174	\$52.00
HABITAT PROTECTION, INC	NOV 23- PEST/RODENT CONTROL-MS	12/07/2023	9001174	\$64.00
HABITAT PROTECTION, INC	NOV 23-RODENT CONTROL-FC	12/07/2023	9001174	\$39.00
HABITAT PROTECTION, INC	NOV 23- PEST CONTROL-FS	12/07/2023	9001174	\$38.00
HABITAT PROTECTION, INC	NOV 23- PEST/RODENT CONTROL-LCCC	12/07/2023	9001174	\$64.00
HABITAT PROTECTION, INC	NOV 23- PEST/RODENT CONTROL-PW	12/07/2023	9001174	\$64.00
CALIFORNIA OFFICE CLEANING, INC	NOV 23- JANITORIAL/CUSTODIAL SVC	12/15/2023	9001183	\$7,480.00
SYMONS FIRE PROTECTION	FY24 FIRE SUPRESSION EQUIPMENT	11/30/2023	106011	\$810.00
PRIDE INDUSTRIES	NOV 23-TRASH ABATEMENT SERVICES	12/15/2023	106059	\$569.25
	TOTAL PUBLIC FACILITIE	s		\$20,427.03
1007110 - GF-RECREATION				
RAPHAEL'S PARTY RENTALS	12/03/23-TREE LIGHTING	11/30/2023	106009	\$2,332.21
ROBERT PARKER	12/03/23-TREE LIGHTING	11/30/2023	106007	\$300.00
SAM CASTELLANO	12/03/23-TREE LIGHTING	11/30/2023	106001	\$700.00
		11/00/0000	400004	

12/03/23-TREE LIGHTING

11/30/2023

106001

\$700.00

SAM CASTELLANO

Page: 6 of 10

				Page: 7 of 10
ABLE PATROL & GUARD, INC	NOV 23-FCCC GUARD SVC	12/07/2023	106015	\$270.00
JULIE'S PARTY PEOPLE	2023 TREE LIGHTING	11/30/2023	106005	\$350.00
CALIFORNIA OFFICE CLEANING, INC	NOV 23-FCCC CLEANING	12/07/2023	9001172	\$180.00
AMAZON.COM SALES, INC	DESK CALENDAR	12/07/2023	9001170	\$28.25
	TOTAL GF-RECREATION			\$4,860.46
1205460 - SELF INSURANCE RETENTION				
GEORGE HILLS COMPANY, INC.	2308.MACDONALD	11/30/2023	9001164	\$24.60
GEORGE HILLS COMPANY, INC.	CALPERS V MCCORMICK	11/30/2023	9001164	\$344.40
GEORGE HILLS COMPANY, INC.	2401.LONDONO	11/30/2023	9001164	\$262.40
GEORGE HILLS COMPANY, INC.	2302.BARRERA	11/30/2023	9001164	\$180.40
GEORGE HILLS COMPANY, INC.	2307.KELLY	11/30/2023	9001164	\$155.80
BURKE WILLIAMS & SORENSEN	96-0040.003-SEP 23-PROF SVC	12/15/2023	9001182	(\$29.45)
BURKE WILLIAMS & SORENSEN	96-0040.003-OCT 23-PROF SVC	12/15/2023	9001182	\$1,795.10
	TOTAL SELF INSURANCE RETENTION			\$2,733.25
1255465 - WORKERS COMPENSATION				
DEPARTMENT OF INDUSTRIAL RELATIONS	FY24 OSIP WORKERS COMP	12/15/2023	106065	\$4,273.90
PRISM	Y23 EWC PREMIUM ADJ	12/07/2023	106031	\$4,045.00
CORVEL	BILL REVIEW	11/28/2023	1000178	\$9.50
CORVEL	TELEPHONIC CASE	11/29/2023	1000179	\$1,507.16
CORVEL	UTILIZATION REVIEW	11/29/2023	1000180	\$42.00
CORVEL	TELEPHONIC CASE	11/29/2023	1000181	\$1,097.16
CORVEL	UTILIZATION REVIEW	11/29/2023	1000182	\$42.00
CORVEL	TELEPHONIC CASE	11/29/2023	1000183	\$2,004.08
CORVEL	CASE MANAGEMENT	11/30/2023	1000184	\$1,175.88
CORVEL	UTILIZATION REVIEW	11/28/2023	1000176	\$42.00
OCCUPATIONAL HEALTH CENTERS OF	CLAIM#1764-WC-24-0300003	11/28/2023	1000177	\$54.59
CORVEL ENTERPRISE COMP INC.	OCT 23-CLAIMS SERVICES	11/30/2023	106002	\$250.00
CORVEL ENTERPRISE COMP INC.	OCT 23-CLAIMS SERVICES	11/30/2023	106002	\$1,495.00
	TOTAL WORKERS COMPENSATION			\$16,038.27
135 - EQUIPMENT REPLACEMENT				
REED FAMILY TRUST	RFND:DRP21-023/SDP21-025/SMAP21-001	12/15/2023	106061	\$153.67
	TOTAL EQUIPMENT REPLACEMENT			\$153.67
1356510 - ASSET REPLACEMENT-ENGINEER				
NISSHO OF CALIFORNIA	10/31/23-CALSENSE CONTROLLER REPLACEMENT	12/15/2023	9001187	\$24,125.42
	TOTAL ASSET REPLACEMENT-ENGINEER			\$24,125.42
1605360 - OPEB OBLIGATION				
MIDAMERICA	DECEMBER 23	11/30/2023	9001165	\$7,610.00
	TOTAL OPEB OBLIGATION			\$7,610.00
202 - GAS TAX				
QUALITY CONSTRUCTION & ENGINEERING, INC	. 9362.23 PAVEMENT MAIN AND REPAIRS RETENTION	11/30/2023	106008	(\$7,700.00)
	TOTAL GAS TAX			(\$7,700.00)
2026510 - GAS TAX-ENGINEERING				
QUALITY CONSTRUCTION & ENGINEERING, INC	. 9362.23 FY23 PAVEMENT MAINTENA	11/30/2023	106008	\$154,000.00
	TOTAL GAS TAX-ENGINEERING			\$154,000.00
2037510 - HIGHWAY 101 LANDSC #33				
SANTA FE IRRIGATION DISTRICT	005979-000-SEP-OCT 23	12/07/2023	106033	\$528.52
SANTA FE IRRIGATION DISTRICT	005979-004-09/16/23-11/015/23	12/07/2023	106033	\$539.48
SANTA FE IRRIGATION DISTRICT	007732-000-09/16/23-11/015/23	12/07/2023	106033	\$193.84
SDG&E CO INC	10/06/23-11/06/23-UTILITIES	11/30/2023	106010	\$3,769.99
	TOTAL HIGHWAY 101 LANDSC #33			\$5,031.83

2047520 - 1	MID 9C	SANTA	FE HILLS
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SANTA FE IRRIGATION DISTRICT	005979-029 - 08/16/23-10/16/23 & LATE FEE	12/15/2023	106064	\$865.60
SANTA FE IRRIGATION DISTRICT	005979-029 - 08/16/23-10/16/23 & LATE FEE	12/15/2023	106064	\$155.56
SANTA FE IRRIGATION DISTRICT	005979-024 - 11/02/23-12/01/23	12/15/2023	106064	\$380.85
SANTA FE IRRIGATION DISTRICT	005979-025 - 11/02/23-12/01/23	12/15/2023	106064	\$490.57
SANTA FE IRRIGATION DISTRICT	005979-026 - 11/02/23-12/01/23	12/15/2023	106064	\$672.03
SANTA FE IRRIGATION DISTRICT	005979-018 - 11/02/23-12/01/23	12/15/2023	106064	\$91.01
SANTA FE IRRIGATION DISTRICT	005979-019 - 11/02/23-12/01/23	12/15/2023	106064	\$103.67
SANTA FE IRRIGATION DISTRICT	005979-020 - 11/02/23-12/01/23	12/15/2023	106064	\$461.03
SANTA FE IRRIGATION DISTRICT	005979-021 - 11/02/23-12/01/23	12/15/2023	106064	\$600.29
SANTA FE IRRIGATION DISTRICT	005979-022 - 11/02/23-12/01/23	12/15/2023	106064	\$465.25
SANTA FE IRRIGATION DISTRICT	005979-023 - 11/02/23-12/01/23	12/15/2023	106064	\$427.27
SANTA FE IRRIGATION DISTRICT	005979-014 - 11/02/23-12/01/23	12/15/2023	106064	\$494.79
SANTA FE IRRIGATION DISTRICT	005979-015 - 11/02/23-12/01/23	12/15/2023	106064	\$338.65
SANTA FE IRRIGATION DISTRICT	005979-016 - 11/02/23-12/01/23	12/15/2023	106064	\$427.27
SANTA FE IRRIGATION DISTRICT	005979-017 - 11/02/23-12/01/23	12/15/2023	106064	\$48.81
SANTA FE IRRIGATION DISTRICT	005979-009 -10/03/23-12/01/23	12/15/2023	106064	\$1,024.52
SANTA FE IRRIGATION DISTRICT	005979-010 -10/03/23-12/01/23	12/15/2023	106064	\$490.16
SANTA FE IRRIGATION DISTRICT	005979-011 -10/03/23-12/01/23	12/15/2023	106064	\$588.80
SANTA FE IRRIGATION DISTRICT	005979-012 -10/03/23-12/01/23	12/15/2023	106064	\$150.40
SANTA FE IRRIGATION DISTRICT	005979-006 -10/03/23-12/01/23	12/15/2023	106064	\$1,484.84
SANTA FE IRRIGATION DISTRICT	005979-007 -10/03/23-12/01/23	12/15/2023	106064	\$1,375.24
SANTA FE IRRIGATION DISTRICT	005979-025-ONE MONTH-OCT 23	12/07/2023	106033	\$587.63
SANTA FE IRRIGATION DISTRICT	005979-026-ONE MONTH-OCT 23	12/07/2023	106033	\$722.67
SANTA FE IRRIGATION DISTRICT	005979-019-ONE MONTH-OCT 23	12/07/2023	106033	\$458.15
SANTA FE IRRIGATION DISTRICT	005979-020-ONE MONTH-OCT 23	12/07/2023	106033	\$895.69
SANTA FE IRRIGATION DISTRICT	005979-021-ONE MONTH-OCT 23	12/07/2023	106033	\$1,212.19
SANTA FE IRRIGATION DISTRICT	005979-022-ONE MONTH-OCT 23	12/07/2023	106033	\$849.27
SANTA FE IRRIGATION DISTRICT	005979-023-ONE MONTH-OCT 23	12/07/2023	106033	\$735.33
SANTA FE IRRIGATION DISTRICT	005979-024-ONE MONTH-OCT 23	12/07/2023	106033	\$735.33
SANTA FE IRRIGATION DISTRICT	005979-014-ONE MONTH-OCT 23	12/07/2023	106033	\$807.07
SANTA FE IRRIGATION DISTRICT	005979-015-ONE MONTH-OCT 23	12/07/2023	106033	\$524.33
SANTA FE IRRIGATION DISTRICT	005979-016-ONE MONTH-OCT 23	12/07/2023	106033	\$781.75
SANTA FE IRRIGATION DISTRICT	005979-017-ONE MONTH-OCT 23	12/07/2023	106033	\$48.81
SANTA FE IRRIGATION DISTRICT	005979-018-ONE MONTH-OCT 23	12/07/2023	106033	\$150.09
	TOTAL MID 9C SANTA FE I	HILLS		\$19,644.92
2087580 - COASTAL RAIL TRAIL MAINT				
DIXIELINE LUMBER CO INC	CORNER BRACE/BOLTS/DUSTER	11/30/2023	106003	\$21.76
SANTA FE IRRIGATION DISTRICT	005506-020 - 11/02/23-12/01/23	12/15/2023	106064	\$2,158.22
SANTA FE IRRIGATION DISTRICT	005506-020-ONE MONTH-OCT 23	12/07/2023	106033	\$866.90
SANTA FE IRRIGATION DISTRICT	005506-003-SEP-OCT 23	12/07/2023	106033	\$150.40
	TOTAL COASTAL RAIL TRAIL M	AINT		\$3,197.28
2117600 - STREET LIGHTING DISTRICT				
SDG&E CO INC	10/01/23-11/06/23-UTILITIES	11/30/2023	106010	\$187.33
SDG&E CO INC	10/01/23-11/06/23-UTILITIES	11/30/2023	106010	\$8,855.00
YUNEX LLC	SEP 23-STREETLIGHT MAINTENANCE/R	11/30/2023	9001168	\$3,561.05
YUNEX LLC	SEP 23- STREETLIGHT MAINTENANCE	11/30/2023	9001168	\$2,119.83
	TOTAL STREET LIGHTING DIST	RICT		\$14,723.21
213 - DEVELOPER PASSTHRU				
REED FAMILY TRUST	RFND:DRP21-023/SDP21-025/SMAP21-001	12/15/2023	106061	\$3,150.00
	TOTAL DEVELOPER PASS	ſHRU		\$3,150.00
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228 - TRANSNET EXTENSION		11/30/2023	106008	(417 747 10)
QUALITY CONSTRUCTION & ENGINEERING, INC	. 9362.23 PAVEMENT MAIN AND REPAIRS RETENTION		100008	(\$12,747.10)
	TOTAL TRANSNET EXTENSIO	N		(\$12,747.10
2286510 - TRANSNET EXTENSION-CIP		11/20/2022	100000	***
QUALITY CONSTRUCTION & ENGINEERING, INC		11/30/2023	106008	\$254,942.03
	TOTAL TRANSNET EXTENSION-CI	P		\$254,942.03
2505570 - COASTAL BUSINESS/VISITORS				
EXTERIOR PRODUCTS INC	FY 23-STREET BANNERS	12/15/2023	9001185	\$5,925.00
	TOTAL COASTAL BUSINESS/VISITOR	5		\$5,925.00
2706120 - PUBLIC SAFETY- FIRE				
LIFE-ASSIST, INC	CSA.17-CATHETER MOUNT	12/15/2023	106056	\$108.95
	TOTAL PUBLIC SAFETY- FIR	E		\$108.9
4506190 - SAND REPLNSHMNT/RETENTION				
WARWICK GROUP CONSULTANTS, LLC	NOV 23- CONSULTING SERVICES	12/15/2023	9001195	\$5,833.00
WARWICK GROUP CONSULTANTS, LLC	NOV 23- CONSULTING SERVICES	12/15/2023	9001195	\$5,833.00
SUMMIT ENVIROMENTAL GROUP, INC.	NOV 23-9926-PROF SVC	12/07/2023	9001179	\$6,250.00
	TOTAL SAND REPLNSHMNT/RETENTIO	J		\$17,916.0
4506510 - SANDREPLNSHMNT/RETNTN-CIP		•		, , , , , , , , , , , , , , , , , , , ,
DOMUSSTUDIO ARCHITECTURE	OCT 23-19-144 9449 MS CENTR	12/15/2023	106053	\$3,310.00
DOMOSSIODIO ARCHITECTORE				\$3,310.00
	TOTAL SANDREPLNSHMNT/RETNTN-CI	•		4 5,510.00
4596190 - MISC. CAPITAL PROJECTS		1011510000	0004400	
TING FIBER INC.	NOV 23-Fiber Optic-TIDE BEACH PARK LG TOWER	12/15/2023	9001193	\$450.00
TING FIBER INC.	NOV 23-Fiber Optic-DEL MAR SHORES LG TOWER	12/15/2023	9001193	\$450.00
A PREMAN ROOFING INC	FCCC ROOF REPLACEMENT RETENTION	12/15/2023	106042	(\$11,390.00
QUALITY CONSTRUCTION & ENGINEERING, INC	. 9362.23 PAVEMENT MAIN AND REPAIRS RETENTION	11/30/2023	106008	(\$5,784.15
	TOTAL MISC. CAPITAL PROJECT	5		(\$16,274.15
4596510 - MISC.CAPITALPROJECTS-ENG				
VAN DYKE LANDSCAPE ARCHITECTS	OCT 23-FCP/LCP DESIGN ADDL FUNDS	12/15/2023	106066	\$7,120.50
VAN DYKE LANDSCAPE ARCHITECTS	OCT 23-FCP TOT LOT CONSTRUCTION SUPPO	12/15/2023	106066	\$2,105.00
VAN DYKE LANDSCAPE ARCHITECTS	OCT 23-FCP TOT LOT CONSTRUCTION SUPPO	12/15/2023	106066	\$1,095.00
A PREMAN ROOFING INC	FCCC ROOF REPLACEMENT	12/15/2023	106042	\$227,800.00
QUALITY CONSTRUCTION & ENGINEERING, INC	. 9362.23 FY23 PAVEMENT MAINTENA	11/30/2023	106008	\$115,683.01
	TOTAL MISC.CAPITALPROJECTS-ENG	5		\$353,803.51
5097700 - SANITATION				
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$8.21
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/15/2023	106058	\$8.20
MISSION LINEN & UNIFORM INC	UNIFORM SERVICES FOR PUBLIC WORKS	12/07/2023	106028	\$8.20
SANTA FE IRRIGATION DISTRICT	005506-014-11/02/23-12/01/23	12/15/2023	106064	\$852.18
SANTA FE IRRIGATION DISTRICT	005979-008 -10/03/23-12/01/23	12/15/2023	106064	\$110.7
SANTA FE IRRIGATION DISTRICT	005506-014-10/03/23-11/01/23	12/07/2023	106033	\$768.2 ⁻
US BANK	PE LICENSE RENEWAL	12/15/2023	106046	\$90.0
SAN ELIJO JPA	FY 23 CLOSE-OUT/BOARD OF DIRECTORS PER DIEM	12/15/2023	106063	(\$160.00
SAN ELIJO JPA	FY 23 CLOSE-OUT/BOARD OF DIRECTORS PER DIEM	12/15/2023	106063	(\$4,925.00
SAN ELIJO JPA	Q3-OPERATIONS & MAINTENANCE	12/15/2023	106063	\$516,011.00
SAN ELIJO JPA	Q3-OPERATIONS & MAINTENANCE	12/15/2023	106063	\$286,222.00
AT&T CALNET 3	9391012277 - 10/24/23-11/23/23	12/15/2023	106045	\$19.7
IDRAINS LLC	FY24 SEWER-STORMDRAIN MAINT	12/07/2023	106016	\$525.0
				\$799,538.48
550 - SOLANA ENERGY ALLIANCE		-		,,
		12/15/2022	106057	t * 1 ^ ^ ^
MICHAEL O'LEARY	REISSUE CK#97716 - 09/01/2020	12/15/2023	106057	\$419.91

Page: 10 of 10

\$419.91

TOTAL SOLANA ENERGY ALLIANCE

\$2,126,594.39

REPORT TOTAL:



TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT:

STAFF REPORT CITY OF SOLANA BEACH

Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 Finance Report on Changes Made to the General Fund Adopted Budget for Fiscal Year 2023-24

BACKGROUND:

Staff provides a report at each Council meeting that lists changes made to the current Fiscal Year (FY) General Fund Adopted Budget. The information provided in this Staff Report lists the changes made through December 13, 2023.

DISCUSSION:

The following table reports the revenue, expenditures, and transfers for 1) the Adopted General Fund Budget approved by Council on June 28, 2023 (Resolution 2023-089) and 2) any resolutions passed by Council that amended the Adopted General Fund Budget.

		GENERAL FUND - ADOPTE As of 12	ED BUDGET PLU 2/13/2023	JS CHANGES	3		
		General Fun	d - Operations				
Date	Action	Description	Revenues	Expenditures	Transfers from GF	Ne	et Surplus
06/28/2023 11/29/2023	Reso 2023-089 Reso 2023-128	Adopted Budget Engineering Survey Services	24,472,918	(23,078,124) (100,000)	(980,000)	\$ \$	414,794 <u>314,794</u> 314,794
		General Fun	id - Measure S				
Date	Action	Description	Revenues	Expenditures	Transfers from GF	Ne	et Surplus
06/28/2023	Reso 2023-089	Adopted Budget	4,400,000	(1,124,000)	(733,400)	\$	2,542,600 2,542,600
Combined Ger	neral Fund Net Sur	plus				\$	2,857,394

CEQA COMPLIANCE STATEMENT:

Not a project as defined by CEQA.

COUNCIL ACTION:

FISCAL IMPACT:

N/A

WORK PLAN:

N/A

OPTIONS:

- Receive the report.
- Do not accept the report.

DEPARTMENT RECOMMENDATION:

Staff recommends that the City Council receive the report listing changes made to the FY 2023-2024 General Fund Adopted Budget.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation

Gregory Wade, City Manager



STAFF REPORT CITY OF SOLANA BEACH

TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT: Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 City Clerk's Department **2024 City Council Meeting Schedule Planning**

BACKGROUND:

Pursuant to Solana Beach Municipal Code Section 2.04.070, *the City Council shall hold Regular meetings in the Council Chambers of City Hall, on a day and time set by resolution.* Pursuant to Resolution 2005-019, regularly scheduled meetings are established for the second (2nd) and fourth (4th) Wednesdays of each month. Historically, certain meeting dates that may conflict with official holidays have been canceled and a short summer break has been observed. Special Meetings may be scheduled to maintain the consistency needed to sustain City operations.

The purpose of this Staff Report is to forecast and review potential holidays, breaks, and possible Special Meeting dates to anticipate the 2024 Council Meeting schedule.

DISCUSSION:

The City Council's anticipated 2024 Regular Meeting schedule (Attachment 1) considers potential conflicts for cancellation or, if needed, to establish additional meetings. Consideration of the annual meeting schedule for the purpose of possible modifications facilitates preparation of an anticipated agenda schedule. Additionally, memorializing a plan allows:

- Adequate time for Staff to prepare Staff Reports and a final agenda packet on time.
- Adequate preparation time for Council to review the agenda.
- Sufficient time for public notification of any cancelled/rescheduled meetings.

Therefore, this item is intended to review and consider potential modifications of the *regularly scheduled* 2024 City Council meeting schedule. Any meeting that may be canceled and rescheduled at this time for planning purposes is not permanent. If a Regular Meeting date is canceled at this time, it is not permanently canceled and may still take place at its *regularly scheduled* date/time/place, per proper noticing requirements.

CITY COUNCIL ACTION:

Regularly scheduled meetings are intended to provide consistency and to meet the public's general expectations. There are specific noticing requirements for Regular and Special Meeting agendas.

Meeting Types	Agenda Noticing Requirement
Regular Meetings (established by Resolution)	72 hours prior to meeting time.
Special Meetings (called at any time)	24 hours prior to meeting time.

Specific City business, such as the adoption of Ordinances, is required to take place only at a Regular Council Meeting. Therefore, the anticipation of canceled meetings is necessary to appropriately coordinate meeting agendas, and related business, in order to effectively manage City operations. Please also note that Special Meetings can be called to replace a canceled meeting, as was the case in November 2023, depending upon workload and items requiring City Council action.

Staff recommends that the Council consider potential schedule conflicts, review proposed recommendations, and, if necessary, provide direction to Staff to prepare a revised calendar for reference and planning.

CEQA COMPLIANCE STATEMENT: N/A

FISCAL IMPACT: N/A

WORK PLAN: N/A

OPTIONS:

- Review and approve proposed 2024 Council Meeting Schedule.
- Cancel and/or reschedule the Council meeting dates due to conflicts with holidays and summer break.
- Consider cancelation or rescheduling of other dates.
- Do not cancel or reschedule any Council meeting dates.

DEPARTMENT RECOMMENDATION:

Staff recommends that City Council review, edit, and/or approve a 2024 anticipated Council Meeting schedule with proposed cancellations and/or additional meetings.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation

Gregory Wade, City Manager

Attachment:

1. 2024 City Council Meeting Proposed Dates

2024 Proposed Council Meeting Dates Schedule

January - June

2 nd Wed	January 10 th
4 th Wed	January 24 th
2 nd Wed	February 14 th
4 th Wed	February 28 th
2 nd Wed	March 13 th
4 th Wed	March 27 th
2 nd Wed	April 10 th
4 th Wed	April 24 th
2 nd Wed	May 8 th
4 th Wed	May 22 nd
2 nd Wed	June 12 th
4 th Wed	June 26 th

July - December

2 nd Wed	July 10 th	
4 th Wed	July 24 th Summer Break	Cancel
2 nd Wed	August 14 th Summer Break	Cancel
4 th Wed	August 28 th	
2 nd Wed	September 11 th	
4 th Wed	September 25 th	
2 nd Wed	October 9 th	
4 th Wed	October 23 rd	
2 nd Wed	November 13 th	
4 th Wed	November 27 th Week of Thanksgiving Holidays	Cancel
2 nd Wed	December 11 th	
4 th Wed	December 25 th Week of Christmas Holidays	Cancel

Note: The above Regular Meetings that may be *cancelled* at this time, primarily for planning purposes, are not considered a permanent cancellation and may occur at the regularly scheduled time, per required noticing for Regular Meetings (72 hours). If the forecasted Cancellation holds, the Clerk's Office posts a Cancellation notice. Special Meetings may be called through the year, per the required noticing of 24 hrs or more. Always check the City's website <u>www.cityofsolanabeach.org</u> under Public Meetings.

ATTACHMENT 1



STAFF REPORT CITY OF SOLANA BEACH

TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT: Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 Public Works Department **Council Consideration of Resolution 2024-001 Ratifying the City Manager's Decision to Execute Amendment No. 2 to the Professional Services Agreement for Door Inspection, Maintenance with National Garage Door**

BACKGROUND:

One element of the City's facility maintenance responsibilities is maintenance and repairs of the garage doors, swinging double doors, and access control doors for City Hall, Fire Station, the Community Centers, the Marine Safety Center, and the Public Works Maintenance Facility. These services are provided by professional vendors hired by the Public Works Department through a competitive selection process.

On February 22, 2023, the City Council authorized the City Manager to enter into a Professional Services Agreement (PSA) with National Garage Door for replacement of the roll-up doors at the Fire Station and for maintenance of several other doors throughout the City's facilities.

This item is before the City Council for the consideration of Resolution 2024-001 (Attachment 1) to ratify the City Manager's decision to execute an amendment to the (PSA) with National Garage Door for the replacement of the Fire Station Garage Doors.

DISCUSSION:

As part of the annual door maintenance and as-needed repairs agreement, the vendor is required to perform routine maintenance at City Hall, the La Colonia Community Center, the Fletcher Cove Community Center, Marine Safety Center, and the Fire Station. This maintenance includes routine inspections, as-needed minor repairs, and replacements of garage doors, including the Garage doors at the Fire Station. National

COUNCIL ACTION:

AGENDA ITEM # A.5.

Garage Door is the City's current service provider and City Staff has been satisfied with their work performance.

Resolution 2023-016 authorized the City Manager to award a Professional Services Agreement to National Garage Door for the replacement of six roll up doors at the fire station. This PSA encompasses both maintenance and construction elements. The maintenance component of the agreement focuses on preserving existing structures and systems, ensuring their functionality over time. Meanwhile, the construction component of the agreement involves implementing new components or upgrades and enhancing the overall infrastructure. This dual approach ensures a comprehensive strategy for the sustained reliability and development of the designated project.

For the replacement of the six (6) roll up doors at the Fire Station, City Staff selected a color for the garage doors from a brochure that was intended to replicate the color of the existing doors. Following the installation of the first new garage door, it was brought to Staff's attention that the color selection did not represent the color chosen from the brochure, resulting in garage doors that did not match the aesthetic of the originally approved Fire Station. Recognizing the importance of maintaining a cohesive appearance that reflects our commitment to the community, the City Manager directed Staff to execute a change order with the contractor to order new doors in a color that more closely matches the color of the existing doors. The purpose of this Staff Report is to ratify the City Manager's decision to execute a change order for the new doors to replace the previously purchased garage doors with ones that align with the design of the fire station. This adjustment not only serves to enhance the visual appearance of the facility, but also ensures that the City meets the expectations of both the community and our dedicated firefighters.

Table 1 provides a breakdown of the PSA with National Garage Door.

TABLE 1: MAINTENANCE, CONSTRUCTION, AND AS-NEEDED REPAIRS
FISCAL YEAR 2023/24

ITEM DESCRIPTION	National Garage Door
Approved Amount for Maintenance and As-Needed Repairs	\$ 21,900
Approve Amount to Replace Six Roll up Doors at the Fire	\$140,000
Station	
Approved Contingency Amount	\$21,000
Additional Needed Funding	\$48,000
TOTAL	\$230,900

Replacing the garage doors is crucial for community and firefighter safety, ensuring efficient emergency response and also protecting our fire safety vehicles and personnel. This investment not only enhances the facility but also aligns with our commitment to public safety and welfare, making it a prudent use of funds.
This item is presented to the City Council to consider ratifying the City Manager's decision to replace the garage doors at the City's Fire Station. The old garage doors will be sent to auction, providing an opportunity for cost recovery. This process not only helps offset expenses for the garage door replacement project but also contributes to the City's fiscal sustainability by generating additional revenue through the sale of surplus items.

CEQA COMPLIANCE STATEMENT:

All work covered by this agreement is exempt per Section 15301(a) of the State CEQA Guidelines pursuant to the California Environmental Quality Act.

FISCAL IMPACT:

The current agreement with National Garage Door is for \$140,000 with a contingency amount of \$21,000, and \$21,900 for maintenance and as-needed repairs, for a total not to exceed amount of \$182,900.

City Staff is recommending that the City Council ratify the City Manager's decision to purchase a new set of replacement garage doors, at a cost of \$48,000 and to appropriate \$48,000 from the CIP Fund unallocated fund balance to provide sufficient funding for the replacement of all six garage doors at the fire station for FY 2023/24, bringing the not to exceed amount to \$230,900. Please note that there was a remaining balance of \$75,211 for the Fiscal Year 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, that would more than offset this additional expenditure.

WORK PLAN:

This project was not mentioned in the FY 2023/24 Work Plan.

OPTIONS:

- Approve Staff recommendation.
- Approve Staff recommendation with alternative amendments/modifications.
- Provide direction/feedback.

DEPARTMENT RECOMMENDATION:

Staff recommends the City Council:

1. Adopt Resolution 2024-001:

- a. Ratifying the City Manager's decision to execute amendment No. 2 to the Professional Services Agreement with National Garage Door, in an amount of \$48,000, for a total not to exceed amount of \$230,900 for Fiscal Year 2023/24.
- b. Authorizing a transfer of \$48,000 from the CIP Fund unallocated fund balance for Fiscal Year 2023/24.
- c. Authorizing the City Treasurer to amend the Fiscal Year 2023/24 Adopted Budget accordingly.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation.

Gregory Wade, City Manager

Attachments:

1. Resolution 2024-001

RESOLUTION 2024-001

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLANA BEACH, CALIFORNIA, RATIFYING THE CITY MANAGER'S DECISION TO EXECUTE AMENDMENT NO.2 TO THE PROFESSIONAL SERVICES AGREEMENT WITH NATIONAL GARAGE DOOR FOR MAINTENANCE, AS-NEEDED REPAIRS, AND REPLACEMENT OF THE CITY'S GARAGE DOORS

WHEREAS, the Solana Beach Fire Station garage doors have exceeded their useful life, in order to meet the needs and expectations of the community; and

WHEREAS, Resolution 2023-016 authorized the City Manager to award a Professional Services Agreement to National Garage Door for the replacement of six roll up doors at the fire station. Replacing the garage doors is crucial for community and firefighter safety, ensuring efficient emergency response; and

WHEREAS, this resolution is intended to ratify the City Manager's decision to execute a change order for the new doors to replace the previously purchased garage doors with ones that align with the design of the fire station. This adjustment not only serves to enhance the visual appeal of the facility but also ensures that City meets the expectations of both the community and our dedicated firefighters; and

WHEREAS, the old garage doors will be sent to auction, providing an opportunity for cost recovery. This process not only helps offset expenses for the garage door replacement project but also contributes to the City's fiscal sustainability by generating additional revenue through the sale of surplus items.

WHEREAS, the current agreement with National Garage Door is for \$140,000 with a contingency amount of \$21,000, and \$21,900 for maintenance and as-needed repairs, for a total not to exceed amount of \$182,900.

WHEREAS, City Staff are recommending an appropriation of \$48,000 from the CIP Fund unallocated fund balance to provide sufficient funding for the replacement of all six garage doors at the fire station, bringing the not to exceed amount to \$230,900, for FY 2023/24.

NOW, THEREFORE, the City Council of the City of Solana Beach, California, does resolve as follows:

1. That the foregoing recitations are true and correct.

Resolution 2024-001 PSA Amendment No.2 – National Garage Door Page 2 of 2

- a. That the City Council ratifies the City Manager's decision to execute amendment No. 2 to the Professional Services Agreement with National Garage Door, in an amount of \$48,000, for a total not to exceed amount of \$230,900 for Fiscal Year 2023/24.
- b. That the City Council authorizes a transfer of \$48,000 from the CIP Fund unallocated fund balance for Fiscal Year 2023/24.
- c. That the City Council authorizes the City Treasurer to amend the Fiscal Year 2023/24 Adopted Budget accordingly.

PASSED AND ADOPTED this 10th day of January 2024, at a regularly scheduled meeting of the City Council of the City of Solana Beach, California by the following vote:

AYES:Councilmembers –NOES:Councilmembers –ABSENT:Councilmembers –ABSTAIN:Councilmembers –

LESA HEEBNER, Mayor

APPROVED AS TO FORM:

ATTEST:

JOHANNA N. CANLAS, City Attorney

ANGELA IVEY, City Clerk



TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT:

STAFF REPORT CITY OF SOLANA BEACH

Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 Engineering Department City Council Consideration of Resolution 2024-004 Authorizing the City Clerk to File a Notice of Completion for the Fiscal Year 2022-23 Street Maintenance & Repair Project

BACKGROUND:

At the June 28, 2023, City Council (Council) Meeting, Council awarded the construction contract for the Fiscal Year 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, to Quality Construction & Engineering.

This item is before the Council to consider adoption of Resolution 2024-004 (Attachment 1) to report the final project costs, accept the project as complete, and to direct the City Clerk to file a Notice of Completion.

DISCUSSION:

Quality Construction & Engineering was selected for and completed all work on this project in accordance with the approved plans and specifications of Bid No. 2023-07 to the satisfaction of the City Engineer. The City will release the 5% retention (\$54,989) 35 days after the approval of the Notice of Completion by the Council.

The following are some of the highlights of this annual street maintenance project:

- Pavement overlays on 10 street segments totaling 206,000 square feet (SF).
- Slurry seals on 19 street segments totaling 620,000 SF.
- Replacement of traffic striping and legends on all resurfaced street segments.
- Construction of median curbs on Highland Drive between Lomas Santa Fe Drive and Uno Verde, including preparation of the median area and importing topsoil for future landscaping as a separate project.

CITY COUNCIL ACTION:

- Removal and reconstruction of curb, gutter, and sidewalk, including full width pavement overlay, on South Acacia from Plaza Street to the Distillery parking lot.
- Localized pavement "pothole" repairs (dig-outs) throughout the City totaling 19,000 SF.
- Repainting faded traffic striping at select locations.
- Replacement of damaged sidewalks at locations where additional work was performed.
- Installation of speed cushions including replacement of two sets of speed cushions on North Acacia between Cliff and Estrella and one set on North Granados between El Viento and Cliff.

One change order for additional work was approved, which included:

- Additional restriping on Lomas Santa Fe Drive, Plaza Street, San Andres Drive and Las Banderas Drive.
- Adjustment of bid quantities.
- Deletion of South Sierra sidewalk replacement as the Distillery Parking Lot.
- Addition of concrete art pad in new Highland Drive medians.
- Construction of berm on South Cedros at Marsolan.
- Addition of drain in South Acacia sidewalk.

CEQA COMPLIANCE STATEMENT:

The project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301(c) of the State CEQA Guidelines.

FISCAL IMPACT:

The project was funded by the Fiscal Year (FY) 2022/23 Annual Pavement Management Program and the South Acacia Streetscape Project. The funding includes \$154,000 in Gas Tax Funds, \$315,000 in TransNet Funds (including \$90,000 programed for South Acacia Streetscape Project), \$400,000 in Road Repair and Accountability Act (SB1) Funds, and \$306,000 in General Funds. The total funding appropriated for this project was \$1,175,000.

The construction base contract amount was \$1,088,838. The City Council authorized a construction contingency in the amount of \$86,162 to match the total project funding of \$1,175,000. One change order was executed in the net amount of \$10,950.06, for a final project cost of \$1,099,788.46. This change order is covered by the approved contingency amount of \$86,161.60, of which \$75,211 was unused and will be returned to the General Fund to be used for other purposes.

WORK PLAN:

Unprioritized Community Character Issues.

OPTIONS:

- Adopt Staff recommendation.
- Deny Staff recommendation and provide direction.

DEPARTMENT RECOMMENDATION:

Staff recommends that the City Council adopt Resolution 2024-004:

- 1. Authorizing the City Council to accept, as complete, the FY 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, performed by Quality Construction & Engineering.
- 2. Authorizing the City Clerk to file a Notice of Completion.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation.

Gregory Wade, City Manager

Attachments:

1. Resolution 2024-004

RESOLUTION 2024-004

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLANA BEACH, CALIFORNIA, ACCEPTING, AS COMPLETE, THE FY 2022-23 STREET MAINTENANCE & REPAIR PROJECT, BID NO. 2023-07 AND AUTHORIZING THE CITY CLERK TO FILE A NOTICE OF COMPLETION

WHEREAS, on June 28, 2023, the City Council awarded a construction contract for the FY 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, to Quality Construction & Engineering; and

WHEREAS, the FY 2022-23 Street Maintenance & Repair Project has now been completed in accordance with the plans and specifications included as part of the public works contract with Quality Construction & Engineering to the satisfaction of the City Engineer.

NOW, THEREFORE, the City Council of the City of Solana Beach, California, does resolve as follows:

- 1. That the above recitations are true and correct.
- 2. That the City Council accepts, as complete, the FY 2022-23 Street Maintenance & Repair Project, Bid No. 2023-07, performed by Quality Construction & Engineering.
- 3. That the City Council authorizes the City Clerk to file a Notice of Completion for the project.

PASSED AND ADOPTED this 10th day of January 2024, at a regularly scheduled meeting of the City Council of the City of Solana Beach, California by the following vote:

AYES:CouncilmembersNOES:CouncilmembersABSTAIN:CouncilmembersABSENT:Councilmembers

LESA HEEBNER, Mayor

APPROVED AS TO FORM:

ATTEST:

JOHANNA N. CANLAS, City Attorney

ANGELA IVEY, City Clerk

ATTACHMENT 1



STAFF REPORT CITY OF SOLANA BEACH

TO: FROM: MEETING DATE: ORIGINATING DEPT: SUBJECT: Honorable Mayor and City Councilmembers Gregory Wade, City Manager January 10, 2024 Community Development Department Request to Purchase Two (2) Ford Maverick Hybrid Pickup Trucks for Code Compliance Staff (Resolution 2024-008)

BACKGROUND:

The Code Compliance Division of the Community Development Department currently operates and maintains a model year 2013 Ford Escape and 2008 Ford Ranger pickup. These vehicles are primarily used by Code Compliance Staff for parking enforcement and field related activities throughout the City. They are also used to transport traffic control devices and illegal signs or materials removed from the City's right-of-ways. One of the code vehicles is inoperable leaving one vehicle to share amongst code compliance Staff. The remaining code compliance vehicle is ten (10) years old and has been determined that it is also beyond its life expectancy as a regular/daily use vehicle.

This item is before the City Council to consider approving Resolution 2024-008 (Attachment 1) authorizing the purchase of two replacement vehicles for the Code Compliance Division.

DISCUSSION:

The City of Solana Beach's Code Compliance Division operates and maintains a fleet of two (2) vehicles for the purpose of field inspections, traffic control and parking enforcement patrols. Occasionally, these vehicles must be replaced as they have met the end of their useful life.

The new model year hybrid pickup trucks will replace a fifteen (15) year old Ford Ranger pickup truck and a ten (10) year old Ford Escape that have exceeded their useful lives. They are scheduled for replacement. The Ford Ranger truck has undergone repairs for electrical and instrument issues, as well as chronic battery failures due to an electrical short issue. It presently remains unused. The Ford Escape has been regularly shared between two Staff members for five (5) consecutive days a week. The Community Development Department Director is recommending that both vehicles be replaced with 2024 hybrid model Ford Maverick pick-up trucks. Staff is also recommending safety lighting/vehicle upfit package to be included on each truck, which will add an additional \$6,134.01 to the total price, for a total cost of \$48,340.23 per vehicle. The total cost for both vehicles with upfits would be \$96,680.46. The total cost includes sales tax, DMV registration, tire fee and destination charge.

CITY COUNCIL ACTION: _____

AGENDA ITEM # A.7.

The City's purchasing regulation Section 3.08.130(C) of the Solana Beach Municipal Code authorizes "public agencies" to participate in cooperative purchasing agreements like those established by eBidboard or acquired in cooperation with another government agency. Where no joint powers authority exists, the City may utilize the bid lists of the state or another governmental agency where it is beneficial and economically advantageous to do so, as long as the bid process utilized by the other governmental agency is similar to the City process.

After eBidboard resulted in no responses or interest from local auto dealers, and after careful evaluation of various purchasing options and in consultation with the City Attorney's office, Staff opted to utilize the State of California's Department of General Services Fleet Vehicle Contract. The State contract with auto dealers may also be utilized by any local government agency to place a direct order for any listed vehicle option within the contract but would be subject to inventory availability, per State policy. Staff located a compact Ford pickup truck hybrid option within the State's contract list of vehicles. It was the only compact pickup hybrid option available.

It is anticipated that it will take approximately four to six months for the City to receive the new vehicles. Upon receipt of the new vehicles, Code Compliance Staff will coordinate all necessary steps to get the vehicles into use. Below is a representative picture of the vehicles.



The vehicles will be eco-hybrid/fuel efficient models, consistent with the preference and direction of City Council and they are the only compact sized, alternative fuel pickup available on the State's contract list. The rugged nature of code compliance activities includes, but is not limited to, transporting cones, barricades and illegal signage which makes this compact truck the most appropriate hybrid vehicle type.

CEQA COMPLIANCE STATEMENT:

This action is not subject to review under the California Environmental Quality Act (CEQA).

FISCAL IMPACT:

The new vehicles for the Code Compliance Division will be purchased utilizing funds within the Asset Replacement Fund Reserve specifically identified for and allocated within the budget for this fiscal year to replace the existing Code Compliance vehicles. The base price and options discussed are itemized in Table 1, below. The total cost for the vehicles is \$96,680.46. There are sufficient funds in the Asset Replacement Fund Reserve to cover the cost.

Item	Description	Cost
Two (2) 2024 Ford Maverick Crew Pickup (Hybrid)	Downtown Ford Sacramento	\$76,064.00
Emergency Light Package/Upfitting (x2)	 Provide and install 42" light bar. Provide and install LED 4-corner strobes. Prove and Install 100 Watt PA (siren disabled). Provide and Install lighting/PA system controls. 	\$11,610.00
Sales Tax		\$6,788.96
Delivery Fee and CA Tire Tax		\$2,217.50
Total Cost		\$96,680.46

Table 1 – Vehicle Descriptions and Cost

WORK PLAN:

N/A

OPTIONS:

- Adopt Staff recommendation.
- Adopt Staff recommendation with revisions.
- Deny Staff recommendations and provide direction.

DEPARTMENT RECOMMENDATION:

Staff recommends the City Council approve Resolution 2024-008 authorizing the purchase of two (2) new Ford Maverick Hybrid pick-up trucks, with equipment upfits, for \$96,680.46 for the Code Compliance Division.

January 10, 2024 Code Compliance Vehicle Replacement Page 4 of 4

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation.

Gregory Wade, City Manager

Attachment:

1. Resolution 2024-008

RESOLUTION 2024-008

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLANA BEACH, CALIFORNIA, AUTHORIZING THE PURCHASE OF TWO REPLACEMENT VEHICLES FOR THE CODE COMPLIANCE DIVISION

WHEREAS, there are currently two (2) vehicles that are utilized by the Code Compliance Division and both are in need of replacement since they have reached the end of their useful lives; and

WHEREAS, the Code Compliance Division of the Community Development Department's 2008 Ford Ranger and 2013 Ford Escape need to be replaced to support the department's continuity of operations; and

WHEREAS, in accordance with Solana Beach Municipal Code (SBMC) Section 3.08.080, Staff prepared specifications and advertised a notice of inviting bids through a formal competitive bidding process, utilizing eBidboard, for two (2) new Ford Maverick hybrid pickup trucks but did not receive any bids and, therefore, the State of California's Department of General Services Fleet Vehicle Contract is to be utilized; and

WHEREAS, Staff is recommending the Code Compliance Division's vehicles be replaced with two (2) new Ford Maverick Hybrid pick-up trucks with identified upfitting/equipment installation; and

WHEREAS, Staff obtained a quote from Downtown Ford of Sacramento, an auto dealer listed within the State of California's Department of General Services Fleet Vehicle Contract to locate a vehicle that meets the needs of the department.

NOW, THEREFORE, the City Council of the City of Solana Beach, California, does resolve as follows:

- 1. That the above recitations are true and correct.
- 2. That the City Council approves the purchase of two (2) Ford Maverick Hybrid pickup trucks, including accessories, for \$84,412.44 from Downtown Ford of Sacramento.
- 3. That the City Council approves the purchase of vehicle upfitting for emergency lighting, for \$12,268.02.
- 4. That the City Council approves the expenditure of \$96,680.46 from the Asset Replacement Reserve Fund of monies already identified for the purchase of new vehicles for the Code Compliance Division by adopting the FY 2023-2024 Budget.

Resolution 2024-008 Code Compliance Replacement Vehicles Page 2 of 2

PASSED AND ADOPTED this 10th day of January, 2024, at a regular meeting of the City Council of the City of Solana Beach, California by the following vote:

AYES: Councilmembers – NOES: Councilmembers – ABSTAIN: Councilmembers – ABSENT: Councilmembers –

LESA HEEBER, Mayor

APPROVED AS TO FORM:

ATTEST:

JOHANNA N. CANLAS, City Attorney

ANGELA IVEY, City Clerk



STAFF REPORT CITY OF SOLANA BEACH

TO:Honorable Mayor and City CouncilmembersFROM:Gregory Wade, City ManagerMEETING DATE:January 10, 2024ORIGINATING DEPT:Community Development DepartmentSUBJECT:Request for a Conditional Use Permit for the Maintenance and
Repair of an existing lower seawall and an existing upper
drilled pier wall running east/west on the southern property line
at 825 S. Sierra Avenue, Solana Beach. Case No: CUP23-001;
Applicant: Del Mar Beach Club Homeowners Association
Resolution 2024-010.

BACKGROUND:

The Applicant, the Del Mar Beach Club Homeowners Association, is requesting the approval of a Conditional Use Permit (CUP) for the maintenance and repair of the southern 170-feet of an existing 540-foot-long lower bluff seawall on the coastal bluff below 825 S. Sierra Avenue as well as maintenance and repair of an existing upper bluff drilled pier wall running east/west at the southern property line. The proposed maintenance to the lower seawall would include the installation of a new row of tie-back anchors to provide lateral support as the existing tiebacks are failing, the removal of all spalled concrete and either cleaning or replacing the reinforcing steel, placing a new shotcrete cover over the repaired area, and the installation of weep holes at or above 7 MSL. The maintenance of the upper bluff pier wall would include the placement of a reinforced shotcrete skin on the existing 18-inch drilled piers for the length of the exposure which is approximately 4 feet and if additional tiebacks are necessary an additional three rows would be installed. The entire project would require 20 cubic yards of grading. The approximately 12-acre lot is located in the High Residential (HR) Zone and developed with 192 condominiums.

This issue before the City Council is whether to approve, approve with conditions or deny the Applicant's request for a Conditional Use Permit (CUP) as contained in Resolution 2024-010 (Attachment 1).

CITY COUNCIL ACTION:

AGENDA ITEM # B.1.

DISCUSSION:

The existing condominium complex was constructed in the early 1970's prior to the enactment of the Coastal Act. In 1980, the 540 foot long, 15-foot-high lower bluff seawall was constructed with the approval of the California Coastal Commission (CCC). In 1984, deeper foundation footings and backfill were approved because the existing wall had become undermined by the loss of sand. In 1989, a 40-foot long, 15-foot high, mid-bluff retaining wall and the installation of 29, 18-inch drilled piers was constructed to underpin the southwest corner of the condominium structure. In March of 2001, the City and the CCC approved the installation of five, 36-inch diameter drilled piers ranging from 28 to 70 feet deep perpendicular to the beach below in the southwest corner of the condominium complex. With each project, it was determined that the existing condominium complex or the shoreline structure was threatened and that the proposed construction measures were necessary to protect the complex. As a condition of approval for the 2001 project, the Applicant paid and in-lieu sand replenishment fee as the work extended the life of the seawall for approximately 30 years.

The Applicant has provided an "Updated Geotechnical Recommendations – Proposed Maintenance Repairs Existing Lower Bluff Seawall & South Property Line Upper Bluff Caisson System" from Soil Engineering Construction, Inc. which indicates that the existing bluff retention devices (BRD's) have been adversely affected by ongoing erosion and bluff failures and have either been chemically or physically weathered due to the exposure to the elements including sea air and waive action. According to their assessment, maintenance and repair in two areas is necessary in order to extend the life of the BRD's: 1) The repair of the southern 170-feet of an existing 540-foot-long lower bluff seawall and 2) The repair of the existing upper bluff drilled pier wall running east/west at the southern property line.

Proposed maintenance to the lower seawall would include the installation of a new row of tieback anchors to provide lateral support as the existing tiebacks are failing, the removal of all spalled concrete and either cleaning or replacing the reinforcing steel, placing a new shotcrete cover over the repaired area, and the installation of weep holes at or above 7 MSL. In addition, the underside of the lower concrete landing of the existing staircase has experienced spalling and requires moderate concrete patching and two columns supporting the lower landing have substantially deteriorated and will be replaced.

The upper bluff pier wall maintenance and repair would include the placement of a reinforced shotcrete skin on the existing 18-inch drilled piers for the length of the exposure which is approximately 4 feet and if additional tiebacks are necessary an additional three rows would be installed.

This CUP application is before the City Council because the Applicant's Engineers performed tie-back exposure and testing and determined that the existing tiebacks have little to no retention capacity and in their opinion could fail at any time. Such failure would result in significant upper bluff failure that would threaten the existing southernmost condominium structure. The letter from Soil Construction Engineering, Inc. is included in Attachment 3. Therefore, the project has been determined to be an emergency.

Solana Beach Local Coastal Program

A consistency finding with the City's Local Coastal Program (LCP) Land Use Plan (LUP) is required for the proposed project. The City's LUP policies were certified to be consistent with Coastal Act Section 30235 which states: *Revetments, breakwaters, groins, harbor channels, seawalls, cliff retaining walls, and other such construction that alters natural shoreline processes shall be permitted when required to serve coastal-dependent uses or to protect existing structures or public beaches in danger from erosion, and when designed to eliminate or mitigate adverse impacts on local shoreline sand supply.*

Applicable City policies from the City's Certified LUP (as amended) are listed below followed by a discussion of how the project complies or has been conditioned to comply with the City's applicable and relevant LUP policies.

- Certified LUP Policy 4.14 (nonconforming structures)
- Certified LUP Policy 4.26 (irrigation controls for bluff properties)
- Certified LUP Policy 4.28 (stormwater runoff)
- Certified LUP Policy 4.39 (payment of mitigation fees)
- Certified LUP Policy 4.49 (findings)
- Certified LUP Policy 4.50 (impact mitigation fees)
- Certified LUP Policy 4.54 (shoreline protection device maintenance)
- Certified LUP Policy 4.55 (coordination among neighbors)
- Certified LUP Policy 4.58 (development on the bluff)

Policy 4.14: Existing, lawfully established structures that are located between the sea and the first public road paralleling the sea (or lagoon) built prior to the adopted date of the LUP that do not conform to the provisions of the LCP shall be considered legal nonconforming structures. Such structures may be maintained and repaired, as long as the improvements do not increase the size or degree of non-conformity. Additions and improvements to such structures that are not considered Bluff Top Redevelopment, as defined herein, may be permitted provided that such additions or improvements themselves comply with the current policies and standards of the LCP. Complete demolition and reconstruction or Bluff Top Redevelopment is not permitted unless the entire structure is brought into conformance with the policies and standards of the LCP.

• **Project Compliance with Policy 4.14:** The main BRD, the lower bluff seawall, was constructed prior to the City's incorporation and prior to the certification of the City's LUP/LCP, however, it was approved by the CCC. Therefore, it is considered a legally existing nonconforming structure that can remain and be maintained and repaired. The proposed project would not increase the size of the nonconformity as proposed.

Policy 4.26: With respect to bluff properties only, the City will require the removal or capping of any permanent irrigation system within 100 feet of the bluff edge in connection with issuance of discretionary permits for new development, redevelopment, or shoreline protection, or bluff erosion, unless the bluff property owner demonstrates to the satisfaction of the Public Works Director, or the CCC if the project is appealed, that such irrigation has no material impact on bluff erosion (e.g., watering hanging plants over hardscape which drains to the street).

• **<u>Project Compliance with Policy 4.26</u>**: The project has been conditioned to require the removal or capping of any permanent irrigation system within 100 feet of the bluff edge.

Policy 4.28: All storm water drain systems that currently drain or previously drained towards the west over the bluff shall be capped. These systems should be redesigned to drain directly, or through a sump system, and then pumped to the street in compliance with SWP 2007-0001 and consistent with SUSMP requirements. This policy shall be implemented as a condition of approval for all discretionary permits issued for bluff properties or within 5 years of adoption of the LCP, whichever is sooner.

• **<u>Project Compliance with Policy 4.28</u>**: The project has been conditioned to require that all storm water drain systems that currently drain towards the west over the bluff be capped.

Policy 4.39: Provide for reasonable and feasible mitigation for the impacts of all bluff retention devices which consists of the payment of Sand Mitigation Fees and Public Recreation Fees to the City or other assessing agency.

• **<u>Project Compliance with Policy 4.39</u>**: The project has been conditioned to mitigate for all impacts related to sand supply and public recreation through the payment of impact mitigation fees.

Policy 4.45: The City has adopted preferred bluff retention solutions (see Appendix B) to streamline and expedite the City permit process for bluff retention devices. The preferred bluff retention solutions are designed to meet the following goals and objectives:

- (1) Locate bluff retention devices as far landward as feasible;
- (2) Minimize alteration of the bluff face;
- (3) Minimize visual impacts from public viewing areas; ,
- (4) Minimize impacts to adjacent properties including public bluffs and beach area; and,
- (5) Conduct annual visual inspection and maintenance as needed.

The bluff property owner's licensed Civil or Geotechnical Engineer must examine the device for use in the specific location and take responsibility for the design as the Engineer of Record.

The Bluff Property Owner shall arrange for and pay the costs of:

- (1) The licensed Geotechnical or Civil Engineer;
- (2) The bluff retention device;
- (3) A bond to ensure completion of the bluff retention device;
- (4) Appropriate mitigation; and
- (5) All necessary repairs, maintenance, and if needed removal.
- <u>Project Compliance with Policy 4.45</u>: The project Applicant has paid for their licensed Geotechnical Engineer and will pay the construction costs for the maintenance and repair of the existing bluff retention devices and will be conditioned to pay the City a bond to ensure completion of the maintenance and repair bluff retention device. Sand

Supply and Public Recreation Impact Mitigation fees are required to be paid by the Applicant prior to issuance of the construction permit. The Applicant will be responsible for all necessary future repairs and maintenance.

Policy 4.49: Coastal structures shall be approved by the City only if all the following applicable findings can be made and the stated criteria satisfied. The permit shall be valid until the currently existing structure requiring protection is redeveloped (per definition of Bluff Top Redevelopment in the LUP), is no longer present, or no longer requires a protective device, whichever occurs first and subject to an encroachment/removal agreement approved by the City.

- (a) Based upon the advice and recommendation of a licensed Geotechnical or Civil Engineer, the City makes the findings set forth below.
- (1) A bluff failure is imminent that would threaten a bluff home, city facility, city infrastructure, and/or other principal structure.
- (2) The coastal structure is more likely than not to preclude the need for a larger coastal structure or upper bluff retention structure. Taking into consideration any applicable conditions of previous permit approvals for development at the subject site, a determination must be made based on a detailed alternatives analysis that none of the following alternatives to the coastal structure are currently feasible, including:
 - A Seacave/Notch Infill;
 - A smaller coastal structure; or

• Other remedial measures capable of protecting the bluff home, city facility, non-city-owned utilities, and/or city infrastructure, which might include or other non-beach and bluff face stabilizing measures, taking into account impacts on the near and long term integrity and appearance of the natural bluff face, and contiguous bluff properties;

- (3) The bluff property owner did not create the necessity for the coastal structure by unreasonably failing to implement generally accepted erosion and drainage control measures, such as reasonable management of surface drainage, plantings and irrigation, or by otherwise unreasonably acting or failing to act with respect to the bluff property. In determining whether or not the bluff property owner's actions were reasonable, the City shall take into account whether or not the bluff property owner acted intentionally, with or without knowledge, and shall consider all other relevant credible scientific evidence, as well as, relevant facts and circumstances.
- (4) The location, size, design and operational characteristics of the proposed coastal structure will not create a significant adverse effect on adjacent public or private property, natural resources, or public use of, or access to, the beach, beyond the environmental impact typically associated with a similar coastal structure and the coastal structure is the minimum size necessary to protect the principal structure, has been designed to minimize all environmental impacts, and provides mitigation for all coastal and environmental impacts, as provided for in this LCP.
- (b) The coastal structure shall meet City Design Standards, which shall include the following criteria to ensure the coastal structure will be:

- (1) Constructed to resemble as closely as possible the natural color, texture and form of the adjacent bluffs;
- (2) Landscaped, contoured, maintained and repaired to blend in with the existing environment;
- (3) Designed so that it will serve its primary purpose of protecting the bluff home or other principal structure, provided all other requirements under the implementing ordinances are satisfied, with minimal adverse impacts to the bluff face;
- (4) Reduced in size and scope, to the extent feasible, without adversely impacting the applicant's bluff property and other properties; and
- (5) Placed at the most feasible landward location considering the importance of preserving the maximum amount of natural bluff and ensuring adequate bluff stability to protect the bluff home, City facility, or City infrastructure.
- (C) Mitigation for the impacts to shoreline and sand supply, public access and recreation and any other relevant coastal resource impacted by the coastal structure is required and shall be assessed in 20-year increments, starting with the building permit completion certification date. Property owners shall apply for a CDP amendment prior to expiration of each 20-year mitigation period, proposing mitigation for coastal resource impacts associated with retention of the coastal structure beyond the preceding 20-year mitigation period and shall include consideration of alternative feasible measures in which the permittee can modify the coastal structure to lessen the coastal structure's impacts in coastal resources. Monitoring reports to the City and the Coastal Commission shall be required every five years from the date of the CDP issuance until CDP expiration, which evaluate whether or not the coastal structure is still required to protect the existing structure it was designed to protect. The permittee is required to submit a CDP application to remove the authorized coastal structure within six months of a determination that the coastal structure is no longer required to protect the existing structure it was designed to protect.
- **Project Compliance with Policy 4.49**: The proposed project includes the maintenance and repair of the existing BRD's. The Applicant's Engineer has made a determination that the need for repair is an emergency situation due to the fact that the existing tiebacks of the seawall have little to no retention capacity. The City's third-party geotechnical engineer Construction Testing and Engineering, Inc. (CTE) has reviewed the plans, geotechnical reports, pictures and letters provided by the Applicant and confirmed that the project complies with, or has satisfied all of the findings required in, this policy (Attachment 6). The project has been designed consistent with the engineering design requirements of the City's Certified LUP/LCP. Mitigation has been imposed on the project as a condition of approval.

Policy 4.50: The bluff property owner shall pay for the cost of the coastal structure or Infill and pay a Sand Mitigation Fee and a Public Recreation Fee per LUP Policy 4.39. These mitigation fees are not intended to be duplicative with fees assessed by other agencies. It is anticipated the fees assessed as required by this LCP will be in conjunction with, and not duplicative of,

the mitigation fees typically assessed by the CCC and the CSLC for impacts to coastal resources from shoreline protective devices.

• <u>Project Compliance with Policy 4.50</u>: The project will be required to mitigate all sand supply and public recreation impacts through the payment of mitigation fees to the City. The Applicant will also be required to obtain all necessary permits and approvals from the CCC and the CSLC prior to the City issuance of a construction permit.

Policy 4.54: Any bluff retention device shall be reasonably maintained and repaired by the bluff property owner on an "as needed" basis, at the bluff property owner's expense, in accordance with the implementing ordinances and any permit issued by the City. Any authorized assessing entity in which the project lies shall ensure such payments are reimbursed to the City if the bluff property owner fails to perform such work and the City elects to do so, subject to mandatory reimbursement. However, in all cases, after inspection, it is apparent that repair and maintenance is necessary, including maintenance of the color of the structures to ensure a continued match with the surrounding native bluffs, the bluff property owner or assessing entity shall contact the City or CCC office to determine whether permits are necessary, and, if necessary, shall subsequently apply for a coastal development permit for the required maintenance.

• **Project Compliance with Policy 4.54:** The project has been conditioned to include a requirement that the proposed project be repaired and maintained as needed for the life of the structure.

Policy 4.55: To achieve a well maintained, aesthetically pleasing, and safer shoreline, coordination among property owners regarding maintenance and repair of all bluff retention devices is strongly encouraged. This may also result in cost savings through the realization of economies of scale to achieve these goals by coordination through an assessing entity. All bluff retention devices existing as of the date of certification of the LCP, to the extent they do not conform to the requirements of the LCP, shall be deemed non-conforming. A bluff property owner may elect to conform his/her/its bluff property or bluff retention device to the LCP at any time if the City finds that an existing bluff retention device that is required to protect existing principal structures in danger from erosion is structurally unsound, is unsafe, or is materially jeopardizing contiguous private or public principal structures for which there is no other adequate and feasible solution, then the City may require reconstruction of the bluff retention device.

• **<u>Project Compliance with Policy 4.55</u>**: The subject CUP application was collectively submitted by the Del Mar Beach Club Condominium Homeowners Association.

Policy 4.58: Development on the bluffs, including the construction of a bluff retention device, shall include measures to ensure that:

- No stockpiling of dirt or construction materials shall occur on the beach;
- All grading shall be properly covered and sandbags and/or ditches shall be used to prevent runoff and siltation;
- Measures to control erosion shall be implemented at the end of each day's work;
- No machinery shall be allowed in the intertidal zone at any time to the extent feasible;

- All construction debris shall be properly collected and removed from the beach. Shotcrete/concrete shall be contained through the use of tarps or similar barriers that completely enclose the application area and that prevent shotcrete/concrete contact with beach sands and/or coastal waters.
- **<u>Project Compliance with Policy 4.58</u>**: Compliance with the requirements of this policy have been included as engineering conditions of approval.

Resolution No. 2024-010 (Attachment 1) contains citations to relevant policies of the City's LUP/LCP as conditions of approval.

Sand Mitigation Fee and Public Recreation Impact Mitigation Fee Deposit

As mentioned before, the lower bluff seawall was constructed prior to the certification of the City of Solana Beach LCP/LUP and the certification of how to calculate the Sand Mitigation Fee and the Public Recreation Impact Mitigation Fee for projects. These calculations are now Appendix A and C of the City's LCP/LUP. Now that the Applicant is proposing maintenance and repair that will extend the life of the southern 170 feet of the lower seawall, the City should calculate and charge the Applicant the Sand Mitigation Fee and the Public Recreation Impact Fee for a period of 20 years for this portion of the wall.

Using these calculations, the Public Recreation Impact Fee would be \$205,700 for the repair of the southern portion of the lower seawall. At the time this report was published Staff was still working with the City's third-party geotechnical engineer to determine the estimated Sand Mitigation Fee which will be provided in a blue folder memo distribution.

Additional maintenance and repairs are proposed with this permit; however, some Sand Mitigation fees were previously paid for the upper bluff work and the Public Recreation Fee would not apply, therefore, the City is not assessing fees for this portion of the project at this time.

It is unclear how the fees would be assessed for maintenance of the columns and landing of the staircase, therefore, a condition of approval will be added to the Resolution indicating that the Applicant is required to pay the Sand Mitigation Fee and the Public Recreation Impact Mitigation Fee in the amount calculated by the City unless the CCC assesses the fee at a higher amount, then we would accept the fee in the amount assessed by the CCC so that the Applicant wouldn't have to return to the City Council for assessment of a different amount of fees.

Compliance with Solana Beach Certified LUP Policies

Staff has evaluated the CUP application taking into account the following factors: (1) the relevant policies of the City's Certified LUP; (2) the conclusions drawn by the (a) City of Solana Beach's independent third-party geotechnical consultant CTE, INC. regarding the need for the project and the appropriateness of the proposed maintenance and repair to be performed to the existing BRD's and (b) the City of Solana Beach City Engineering conditions of approval; and (3) the Applicant's geotechnical reports and supplemental alternatives analysis

(Attachments 4,5, and 6).

After evaluating the project plans, photos, and the geotechnical recommendations report and response letters from the Applicant's Engineers, Soils Engineering Construction, Inc. and Degenkolb Engineers, included in Attachments 4, 5, and 6, and the third-party review findings provided by the City's geotechnical engineering consultant, CTE, Inc., and the City Engineer, Staff concurs that the proposed project has met the standard of imminent danger. Without the proposed project to stabilize the existing BRD's the prospect of bluff failure could threaten the southwestern most condominium building.

Based on the foregoing information, City Staff finds that the proposed project could be found consistent with applicable LUP policies previously cited.

In addition to the required LUP findings, compliance with the Solana Beach Municipal Code is required to support issuance of a Conditional Use Permit.

Compliance with Solana Beach Municipal Code (SBMC) Findings 17.68.010 (F)

- a. That the proposed use is in accord with the general plan, the general intent of this title, and the purposes of the zone in which the site is located.
- b. That the proposed use, together with the conditions applicable thereto, will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
- c. That the proposed use complies with each of the applicable provisions of the zoning ordinance, unless a variance is granted pursuant to SBMC 17.68.020.

The proposed project is consistent with required finding (a), whereby shoreline protective devices are a structure/use allowed in the City to protect bluff top principal structures in danger of erosion.

The proposed project is consistent with the required finding (b) whereby the proposed project is needed to address an emergency condition whereby bluff failure has been confirmed to be imminent by Construction Testing and Engineering, Inc. (CTE, Inc. who is one of the City's on call third-party Geotechnical Engineering Firms).

The proposed project is consistent with the required finding (c) whereby the proposed project is consistent with the zoning ordinance which allows for shoreline protection.

CEQA COMPLIANCE STATEMENT:

The proposed project qualifies as an emergency repair pursuant to the California Environmental Quality Act (CEQA) Public Resources Code §§ 21060.3, as evidenced by a licensed geotechnical engineer. Thus, this project is exempt from CEQA per 2023 State CEQA Guidelines §15269(b)(c). The project Engineer also provided a letter confirming that this is an emergency condition which has been provided in attachment 3. The project also qualifies for

January 10, 2024 CUP23-001 Del Mar Beach Club HOA Page 10 of 10

and exemption under 15301 existing facilities.

FISCAL IMPACT: N/A

WORK PLAN: N/A

OPTIONS:

- Approve the proposed project and adopt Resolution 2024-010.
- Deny the proposed project.
- Provide alternative direction.

DEPARTMENT RECOMMENDATION:

Staff recommends that the City Council:

- 1. Conduct the Public Hearing: Open the public hearing, Report Council disclosures, receive public testimony, and close the public hearing.
- 2. Find the Proposed Project exempt from the requirements of CEQA pursuant to 2023 State California CEQA Guidelines §15269 as emergency conditions exist onsite. The project could also be found exempt from the requirements of CEQA pursuant to Section 15301 of the State California CEQA Guidelines.
- 3. Adopt Resolution 2024-010 conditionally approving a Conditional Use Permit for maintenance and repair of the southern 170 feet of an existing 540-foot lower bluff seawall and an upper bluff drilled pier wall running east to west along the southern property line at 825 S. Sierra Avenue, Solana Beach.

CITY MANAGER'S RECOMMENDATION:

Approve Department Recommendation.

Gregory Wade, City Manager

Attachments:

- 1. Resolution 2024-010
- 2. Proposed Plans
- 3. Soil Engineering Construction Inc. Designation as an Emergency
- 4. CTE Review Letter
- 5. Soil Construction Engineering, Inc. Engineering Recommendations
- 6. Responses from Applicant's Engineers

RESOLUTION 2024-010

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLANA BEACH, CALIFORNIA, APPROVING A CONDITIONAL USE PERMIT FOR MAINTENANCE AND REPAIR OF THE SOUTHER 170 FEET OF AN EXISTING 540-FOOT-LONG LOWER BLUFF SEAWALL AND MAINTENANCE AND REPAIR OF AN EXISTING UPPER BLUFF DRILLED PIER WALL THAT RUNS EAST/WEST ALONG THE SOUTHERN PROPERTY LINE ON THE BLUFF BELOW THE DEL MAR BEACH CLUB CONDOMINIUM COMPLEX AT 825 SOUTH SIERRA AVENUE IN SOLANA BEACH.

APPLICANTS: DEL MAR BEACH CLUB CONDOMINIUM HOMEOWNERS ASSOCIATION CASE NO.: CUP23-001

WHEREAS, the Del Mar Beach Club Condominium Homeowners Association (hereinafter referred to as "Applicant") has submitted an application for a Conditional Use Permit (CUP) pursuant to Title 17 (Zoning) of the Solana Beach Municipal Code (SBMC); and

WHEREAS, the City Council adopted the Amended Local Coastal Program (LCP) Land Use Plan (LUP) in June 2014 with policies allowing for repair and maintenance of existing, lawfully established structures as long as the improvements do not increase the size or degree of the nonconformity; and

WHEREAS, an Updated Geotechnical Recommendations Report and Project Plans prepared by Soil Construction Engineering, Inc. have been reviewed and confirmed by Construction Testing & Engineering, Inc. (CTE), the City's third party independent geotechnical consultant, in a letter dated November 16, 2023, indicating the proposed project is required and has been designed consistent with all City requirements; and

WHEREAS, at the duly noticed Public Hearing held on January 10, 2024, the City Council received and considered evidence concerning the proposed application as received; and

WHEREAS, the Public Hearing was conducted pursuant to the provisions of Solana Beach Municipal Code Section 17.72.030; and

WHEREAS, the City Council of the City of Solana Beach found the proposed project exempt from the California Environmental Quality Act pursuant because the proposed project qualifies as an emergency repair pursuant to the CEQA Public Resources Code §§ 21060.3, as evidenced by a licensed geotechnical engineer. the project is exempt from CEQA per 2023 State CEQA Guidelines §15269(b)(c) and Guidelines § 15301; and

WHEREAS, this decision is based upon the evidence contained in the subject application, testimony of CTE, evidence presented at the Hearing and any information the

City Council gathered by viewing the site and the area as disclosed at the Hearing.

NOW THEREFORE, the City Council of the City of Solana Beach, California, does resolve as follows:

- 1. That the foregoing recitations are true and correct.
- 2. That the project is categorically exempt from the requirements of CEQA pursuant to 2023 State California CEQA Guidelines 15301 and the proposed project qualifies as an emergency repair pursuant to the CEQA Public Resources Code §§ 21060.3, as evidenced by a licensed geotechnical engineer. the project is exempt from CEQA per 2023 State CEQA Guidelines §15269(b)(c).
- 3. That the request for a CUP for the maintenance and repair of the southern 170-feet of an existing 540-foot-long lower bluff seawall on the coastal bluff below 825 S. Sierra Avenue as well as maintenance and repair of an existing upper bluff drilled pier wall running east/west at the southern property line is conditionally approved based upon the following Findings and subject to the following Conditions:

4. FINDINGS

- A. Compliance with Solana Beach Municipal Code (SBMC) Findings 17.68.010 for a Conditional Use Permit:
 - *I.* Before granting a conditional use permit, the planning director or city council shall make all of the following findings:
 - a. That the proposed use is in accord with the general plan, the general intent of this title, and the purposes of the zone in which the site is located.

General Plan Consistency

The City Council finds the proposed project to be consistent with the following General Plan policies in the City's Land Use (LU) Element for residential land uses as repair and maintenance of deteriorating existing legal structures is permitted:

• Policy LU-5.1: To ensure that development does not create adverse environmental, geographic, or geologic impacts, the City Council shall maintain ordinances for the preservation of hillsides, floodplains, sensitive biological areas, canyons, wetlands, coastal lands, scenic public views and, where feasible, private views. The Council shall also continue to regulate development of property within special hazard areas, including floodplains, coastal bluffs, and steep hillside areas. • Policy LU-7.5: Protect, maintain, and where feasible, enhance and restore coastal resources consistent with the Local Coastal Program.

Local Coastal Plan/Land Use Plan Consistency

The Solana Beach City Council adopted an LCP/LUP on February 27, 2013 (amended and certified on June 11, 2014). Although the LUP has been certified by the California Coastal Commission, the Local Implementation Plan (LIP) portion of the LCP has not yet been certified; as such, the provisions of the LUP are considered by the Coastal Commission to be advisory rather than mandatory at this time.

The purpose of the LUP is to implement the State's goals for the coastal zone. The City's LUP provides long-term goals that promote the beneficial use of lands in the City and the beach and shoreline for residents and visitors alike. The LUP allows for existing structures to be maintained and repaired pursuant to the following policies:

 Policy 4.14: Existing, lawfully established structures that are located between the sea and the first public road paralleling the sea (or lagoon) built prior to the adopted date of the LUP that do not conform to the provisions of the LCP shall be considered legal nonconforming structures. Such structures may be maintained and repaired, as long as the improvements do not increase the size or degree of non-conformity. Additions and improvements to such structures that are not considered Bluff Top Redevelopment, as defined herein, may be permitted provided that such additions or improvements themselves comply with the current policies and standards of the LCP. Complete demolition and reconstruction or Bluff Top Redevelopment is not permitted unless the entire structure is brought into conformance with the policies and standards of the LCP. See also Policy 5.45 which addresses non-Bluff Properties.

The City Council finds the proposed project to be consistent with the LCP/LUP as the existing Bluff Retention Devices (BRD's) were constructed with the approval of the California Coastal Commission prior to the Certification of the City's LCP/LUP and the proposed maintenance and repair would not enlarge or expand the wall.

Specific Plans and Special Overlays

The proposed project is located within the Coastal Zone. As a condition of project approval, the Applicant will be required to obtain a Coastal Development Permit, Waiver, or Exemption from the California Coastal Commission prior to the issuance of a grading permit.

Zoning Ordinance Consistency

The project is consistent with the Zoning Ordinance in that shoreline protective devices are a structure/use allowed in the City to protect bluff top principal structures in danger of erosion.

b. That the proposed use, together with the conditions applicable thereto, will not be detrimental to the public health, safety, or welfare, or materially injurious to+ properties or improvements in the vicinity.

The proposed project is consistent with the required finding (b) whereby the proposed project is needed to address an emergency condition whereby bluff failure has been confirmed to be imminent by Construction Testing and Engineering, Inc. (CTE, Inc. who is one of the City's on call third-party Geotechnical Engineering Firms).

c. That the proposed use complies with each of the applicable provisions of the zoning ordinance, unless a variance is granted pursuant to SBMC 17.68.020.

The project has been reviewed by the City Engineer, the City's third-party Geotechnical Engineer and found to be in compliance with the Zoning Ordinance, the LCP/LUP and the Zoning Ordinance and necessary to prevent bluff failures that would threaten the existing structures.

2. If the conditional use permit is for the purpose of permitting an expansion, restoration, or extension of a nonconforming use or structure then only the findings of Chapter 17.16 SBMC must be made.

No expansion, restoration or extension of a nonconforming structure is proposed with the project.

5. CONDITIONS

Prior to use or development of the property in reliance on this permit, the Applicant shall provide for and adhere to the following conditions:

- A. Community Development Department Conditions:
 - I. Grading Permit plans must be in substantial conformance with the plans presented to the City Council on January 10, 2024 and located in the project file with a submittal date of October 16, 2023.
 - II. The Applicant shall obtain required California Coastal Commission (CCC) approval of a Coastal Development permit, waiver or exemption as determined necessary by the CCC, prior to the

issuance of a Grading Permit.

- III. Any bluff retention device shall be reasonably maintained and repaired by the bluff property owner on an "as needed" basis, at the bluff property owner's expense, in accordance with the implementing ordinances and any permit issued by the City. Any authorized assessing entity in which the project lies shall ensure such payments are reimbursed to the City if the bluff property owner fails to perform such work and the City elects to do so, subject to mandatory reimbursement. However, in all cases, after inspection, it is apparent that repair and maintenance is necessary, including maintenance of the color of the structures to ensure a continued match with the existing structures, the bluff property owner or assessing entity shall contact the City or CCC office to determine whether permits are necessary and, if necessary, shall subsequently apply for a coastal development permit for the required maintenance.
- IV. All construction debris shall be properly collected and removed from the area of work.
- V. The Applicant is required to remove or cap any permanent irrigation system within 100 feet of the bluff edge.
- VI. The Applicant is required to cap all storm water drain systems that currently drain towards the west over the bluff.
- VII. Prior to the issuance of a Grading Permit the Applicant shall pay the Sand Mitigation Fee in the amount calculated by the City and the Public Recreation Impact Mitigation Fee in the amount of \$205,700. If the California Coastal Commission assesses the fee in a higher amount the Applicant shall pay the City the mitigation fees assessed by the CCC.
- B. Engineering Department Conditions: Prior to obtaining any building or grading permits pursuant to this project, the Applicants shall:
 - I. Prepare, execute and record a declaration of restrictions on real property approved by the City Attorney whereby the applicant or the applicant's successors in interest to the property will construct and maintain the shoreline defense structure in accordance with Conditions of this approval.
 - II. The declaration of restrictions shall include an agreement by the Applicant to defend, indemnify, and hold harmless the City, its agents, officers, and employees from any and all claims, actions, proceedings, damages, judgments, or costs, including attorney's fees, against the

City or its agents, officers, or employees, relating to any claim for damages from any injury to person or property caused by the shoreline defense structure or by its failure.

- III. Said declaration of restrictions shall be acknowledged and recorded in the office of the County Recorder.
- IV. Per Policy 4.49 of the certified LUP, an Encroachment Maintenance and Removal Agreement is required when the proposed Bluff Retention Device (BRD) is located in whole or in part on public land. In order to determine if an Encroachment Removal Agreement is required for this project, submit an engineering plan clearly showing the property lines, existing topography and the location of the proposed BRD.
- V. Obtain required California Coastal Commission Permits prior to the issuance of any structure and grading permits or present evidence that an emergency waiver has been granted.
- VI. Obtain any other permits or emergency waivers, which may be required from State and Federal agencies including the State Lands Commission and the U.S. Army Corps of Engineers.
- VII. The project shall be designed and shall provide appropriate data to confirm the submitted design to the satisfaction of the City Engineer. This shall include, but is not limited to, a geotechnical report.
- VIII. The property owners shall post securities to guarantee proper care and use of the Fletcher Cove Beach Access Ramp. No construction materials to be off-loaded on the ramp, at the end of the ramp or any public property including streets and Fletcher Cove Park. No washing of equipment shall occur unless a containment system is properly utilized.
- IX. For all projects on which equipment is driven on the Fletcher Cove Beach Access Ramp, the ramp and adjacent parking lot must be swept daily to remove sand that has been tracked onto the ramp and parking lot. At least once a week, the access ramp and parking lot must be swept with a street sweeper that is capable of cleaning the streets and parking lots of paper, glass, dirt, silt, sand, rocks, litter and miscellaneous debris. The street sweeper shall be equipped with dual gutter brooms, and vacuum equipment may be used. If any sand is tracked outside the parking lot, these areas (including city streets) must also be cleaned weekly with a street sweeper.
- X. The property owners shall pay all inspection and plan check fees as required by the City.

- XI. Plans and specifications for the project shall be approved by the City Engineer in addition to approvals from the Director of Planning as may be required, and shall substantially conform to the plans submitted by the Applicant. All bluff stabilization devices shall produce a natural appearing bluff to the satisfaction of the City Engineer and the Community development director. Project implementation shall provide a final product mimicking a naturally appearing bluff in terms of colors, textures, forms and angles.
- XII. A grading/drainage plan shall be prepared by a registered civil engineer in accordance with the current Grading Ordinance and be submitted to the City Engineer for approval and permit issuance.
- XIII. The Applicant shall post with the City a Performance Bond equal to the full amount of the work to be completed to guarantee that once started, construction will be completed per approved plans.
- XIV. The Applicant shall submit a Certificate of Insurance naming the City of Solana Beach as an additional insured in the amount of \$2,000,000 on a policy of general liability insurance issued by an insurance company licensed to do business in California, and meeting the requirements established by City Council resolution for insurance companies doing business with the City, covering injuries to persons and property during the construction period.
- XV. The Applicant shall obtain a Special Use (Marine Safety) Permit specifying the conditions governing use of vehicles, use of the Fletcher Cove Beach Access Ramp, and entry upon and use of areas of the public beach for construction equipment and vehicles. Evidence of permit issuance shall be submitted to the City Engineer before issuance of the permit for the project.
- XVI. The Applicant shall have on file evidence from the Marine Safety Department and the City Engineer that arrangements have been made to satisfy the following criteria:
 - a. Prior to usage of the Solana Beach Fletcher Cove ramp or parking lot, a cash deposit, bond or other secured agreement to cover the following impact charges shall be deposited:
 - i. A five-dollar and thirty-cents (\$6.00) per round trip vehicle charge for all construction related vehicles using the ramp.
 - ii. A two-dollar and seventy cents (\$3.00) per ton fee, or less if approved by the City Council, based on the estimated weight of the vehicle and load for all vehicles in excess of ³/₄ ton capacity,

excluding any vehicles solely transporting beach grade replenishment sand.

- iii. A twenty-seven dollar (\$31) per day charge for the first 30 days escalating to fifty-three dollars (\$57) per day for the 31st and subsequent days charge shall be collected to encourage a timely completion of all projects, unless otherwise modified for good cause by the City Council or City Manager.
- iv. Any damage caused to the Solana Beach Fletcher Cove ramp and parking lot.
- b. At least one City of Solana Beach Lifeguard shall be contracted, at the Applicant's expense, through the Captain of Marine Safety, to monitor all activities in order to insure full compliance with the conditions of this permit. The lifeguard(s) shall be on duty at all times when any construction activity takes place. Additional lifeguards may be required at the discretion of the Captain of Marine Safety. In addition to the lifeguard staffing cost, the Applicant shall also pay a Marine Safety equipment use fee of four-dollar and sixty-four cents (\$4.64) per hour, based on the number of the number of hours the lifeguards are contracted for the project.
- c. If construction access is from Fletcher Cove Park, precautions shall be taken to avoid damage to the beach access ramp during construction and repairs. If damage to the ramp occurs, it shall be repaired to a condition equivalent to the condition at the start of construction activity to the satisfaction of the City of Solana Beach City Engineer. All City owned work areas including Fletcher Cove Park and access ramp shall be videotaped prior to the commencement of the project. The videotape shall establish the "as-is" condition. In any areas missed by the videotape, the City Engineer will determine "as-is" condition.
- XVII. Beach quality sand from the excavation for the proposed project shall be deposited and spread on the beach in front of this site unless unique and/or inappropriate conditions are encountered. The Applicant should reference this condition to other permitting agencies.
- XVIII. An encroachment permit from the Engineering Department is required if a crane, construction materials, etc. are envisioned to be stationed in the public right of way. The City does not guarantee that an encroachment permit will be approved.
- XIX. Any grout mixture used on the project that may be visible from the beach or surrounding areas shall be of similar color as the surrounding natural bluffs. Color samples shall be submitted and approved by the City prior to placing the grout.

- XX. The structure and any exposed construction shall mimic the natural contours, color and texture to the maximum extent practicable, as determined by the City Engineer and Community Development Director.
- XXI. A carved, colored and textured facade on the face of the structure matching the adjacent bluff areas shall be constructed. The façade shall match the contours, both vertically and horizontally, and the texture of the adjacent natural bluffs to the maximum extent feasible. Coastal bluff colored grouting shall be used and shall be submitted to the City Engineer before approval of the plans. A test prism shall be cast and delivered to a testing lab during construction.
- XXII. A qualified, licensed and insured contractor shall perform all required work as outlined by certified/registered engineering geologist or Registered Civil Engineer on the construction plans. Special and general notes on said plans shall be followed to the satisfaction of the City Engineer or his designee.
- XXIII. Lateral pedestrian and Marine Safety vehicular access through the construction area, shall be provided past the site at all times, subject to high tides and safety issues. A 30-foot wide safety/construction work zone shall be provided during work hours to separate the work zone from the open public beach.
- XXIV. No construction activities may occur on the beach during the busier recreational season, which is defined as the period between Memorial Day and Labor Day of any year. The contractor shall obtain approval from the City of Solana Beach Engineering and Marine Safety Departments regarding the use and timing of the Fletcher Cove parking lot and beach access ramp for all construction related access, staging and parking issues if such use becomes required.
- XXV. Pursuant to SBMC Section 7.34.100, Construction hours are limited to 7:00 a.m. to 7:00 p.m., Monday through Friday, and 8:00 a.m. to 7:00 p.m. on Saturday. No work is allowed on Sunday or holidays unless specifically approved pursuant to SBMC Section 7.34.100.B. Engines shall not be started, no construction-related materials shall be moved, or any other construction-related activities occur outside these hours. Work is not permitted on the beach on Saturdays without the written approval of the City Manager.

Prior to Final Inspection of the project, the Applicant shall:

I. Submit certification to the City Engineer from the Geotechnical Engineer and the Civil Engineer of Record for the project that they have inspected the project and certify that it was constructed per the approved plan, specifying the date of the plan.

II. The applicant and/or contractor shall repair any damage caused to the Solana Beach property and facilities, including but not limited to, Fletcher Cove ramp and parking lot to the satisfaction of the City Engineer.

The Applicant shall provide for and adhere to the following Conditions:

- I. All development on the site shall substantially conform to the final Conditional Use Permit Plan approved by the City Council.
- II. The property owner shall be responsible to immediately remove, in perpetuity, any graffiti or other markings should they appear on the project exterior face. If erosion exposes the steel rebar, the Applicant or their successor in interest shall arrange to apply a sculptor-coat of concrete over the exposed steel to match the natural bluff. The property owner shall be responsible for the removal of the structure or any portion thereof.
- III. If requested by the City Manager or his designee, the property owner or their successor in interest shall install and maintain signage about unstable bluffs fronting their property.
- IV. The applicant shall provide "As-Built" plans and all certifications required to the City, before the City will release the performance bond as indicated in condition 1.XII.
- C. City Council Condition:
 - I. N/A.
- 6. ENFORCEMENT: Pursuant to SBMC 17.72.120(B) failure to satisfy any and all of the above-mentioned conditions of approval is subject to the imposition of penalties as set forth in SBMC Chapters 1.1.6 and 1.18 in addition to any applicable revocation proceedings.
- 7. EXPIRATION: The Development Review Permit for the project will expire 24 months from the date of authorization from the California Coastal Commission in the form of a Coastal Development Permit, Waiver, or Exemption unless the Applicant has obtained a Grading Permit and commenced construction prior to that date, and diligently pursued construction to completion. An extension of the application may be granted by the City Council.
- 8. INDEMNIFICATION AGREEMENT: The Applicant shall defend, indemnify, and hold harmless the City, its agents, officers, and employees from any and all claims,

actions, proceedings, damages, judgments, or costs, including attorney's fees, against the City or its agents, officers, or employees, relating to the issuance of this permit including, but not limited to, any action to attack, set aside, void, challenge, or annul this development approval and any environmental document or decision. The City will promptly notify Applicant of any claim, action, or proceeding. The City may elect to conduct its own defense, participate in its own defense, or obtain independent legal counsel in defense of any claim related to this indemnification. In the event of such election, Applicant shall pay all of the costs related thereto, including without limitation reasonable attorney's fees and costs. In the event of a disagreement between the City and Applicant regarding litigation issues, the City shall have the authority to control the litigation and make litigation related decisions, including, but not limited to, settlement or other disposition of the matter. However, the Applicant shall not be required to pay or perform any settlement unless such settlement is approved by Applicant.

9. NOTICE TO APPLICANT: Pursuant to Government Code Section 66020, you are hereby notified that the 90-day period to protest the imposition of the fees, dedications, reservations or other exactions described in this resolution commences on the effective date of this resolution. To protest the imposition of any fee, dedications, reservations or other exactions described in this resolution you must comply with the provisions of Government Code Section 66020. Generally the resolution is effective upon expiration of the tenth day following the date of adoption of this resolution, unless the resolution is appealed or called for review as provided in the Solana Beach Zoning Ordinance.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Solana Beach, California, held on the 10th day of January, 2024, by the following vote:

AYES:	Councilmembers –
NOES:	Councilmembers –
ABSENT:	Councilmembers –
ABSTAIN:	Councilmembers –

APPROVED AS TO FORM:

ATTEST:

JOHANNA N. CANLAS, City Attorney

ANGELA IVEY, City Clerk

DEL MAR BEACH CLUB PROPOSED MAINTENANCE/REPAIRS TO EXISTING SEAWALL AND UPPER BLUFF CAISSON SYSTEM - PHASE 1

GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN IN FOR PUBLIC ROAD PURPOSES

2. FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS

3. IMPORT MATERIALS SHALL BE LEGALLY OBTAINED.

4. A SEPARATE PERMIT FROM THE CITY ENGINEER WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY

5. ALL SLOPES OVER THREE FEET IN HEIGHT SHALL BE LANDSCAPED AND

THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

UNDERGROUND SERVICE ALERT 811

CITY OF SOLANA BEACH PUBLIC WORKS 858 720-2470

7. THE SOILS REPORT TITLED: UPDATED GEOTECHNICAL RECOMMENDATIONS - PROPOSED MAINTENANCE REPAIRS EXISTING LOWER BLUFF SEAWALL & SOUTH PROPERTY LINE UPPER BLUFF CAISSON SYSTEM DEL MAR BEACH CLUB HOA - 825 S. SIERA AVENUE, SOLANA BEACH, CALIFORNIA \$2075, PREPARED BY SOIL ENGINEERING CONSTRUCTION, INC., AND DATED <u>4323</u> SHALL BE CONSIDERED AS PART OF THIS GRADING PLAN. ALL GRADING SHALL BE CONSIDERED AS PART OF THIS GRADING PLAN. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN SAID REPORT.

& APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT 8. APPROVAL OF THESE PLANS BY THE CITY ENGINEER ODES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND A VALID GRADING PERMIT HAS BEEN ISSUED.

9. THE CITY ENGINEER'S APPROVAL OF THESE PLANS DOES NOT CONSTITUTE THE BUILDING OFFICIAL'S APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOILS IS MADE OR

10. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR HOLIDAYS HOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL SUFACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SUFFACES.

12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE EXCAVATION AND GRADING CODE, AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS. THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT PROPERTY NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY ROM SETTLING, CRACKING, AND PROTECTING SUCH PROPERTY ROM SETTLING, CRACKING, EROSION, SILTING SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE CITY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION ON NON-DEDICATED IMPROVEMENTS, WHICH DAMAGE ADJACENT PROPERTY

13. SLOPE RATIOS: CUT 2:1 FILL 2:1 CUT 20 CY FILL 00 CY IMPORT/(EXPORT) 00 CY NOTE: A SEPARATE PERMIT MUST EXIST FOR OFFSITE IMPORT OR EXPORT AREAS

14. SPECIAL CONDITIONS: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS SUCH OPERATIONS WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE CITY ENGINEER OF THE DISCOVERY GRADING OPERATIONS WILL NOT COMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE CITY ENGINEER TO

15 ALL GRADING SHOWN ON THIS PLAN SHALL BE COMPLETED AS A SINGULAR UNIT WITH NO PROVISION FOR PARTIAL RELEASES SHOULD IT BE ANTICIPATED THAT A PORTION OF THIS PROJECT IS COMPLETED SEPARATELY, A SEPARATE PLAN AND PERMIT APPLICATION SHALL BE SUBMITTED FOR APPROVAL

16 THE CONTRACTOR SHALL NOTICY THE CITY OF SOLANA, BEACH AT 720-2470, 24 HOURS BEFORE GRADING OPERATIONS BEGIN

17. FINISHED GRADING AND PLANTING SHALL BE ACCOMPLISHED ON ALL SLOPES PRIOR TO OCTOBER 1, OR IMMEDIATELY UPON COMPLETION OF ANY SLOPES GRADED BETWEEN OCTOBER 1 AND APRIL 1. PRIOR TO ANY PLANTING, ALL LANDSCAPING SHALL BE APPROVED BY THE PLANNING DEPARTMENT AT THE DEVELOPMENT REVIEW STAGE, OR BY SEPARATE LANDSCAPING PLAN

18 ALL OFF-SITE HALL ROUTES SHALL BE SUBMITTED BY THE 10. ALL OFF-SITE HAUL ROUTES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL 72 HOURS PRIOR TO BEGINNING WORK. 19. UPON FINAL COMPLETION OF THE WORK UNDER THE GRADING PERMIT, BUT PRIOR TO FINAL GRADING APPROVAL, AND/OR FINAL RELEASE OF SECURITY, AN AS-GRADED CERTIFICATE SHALL BE RELEASE OF SECURIT, AN AS-GRADED CERT FIRCATE SHALL BE PROVIDED STATING: "THE GRADING UNDER PERMIT NO. SBGR-HAS BEEN PERFORMED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED GRADING PLAN OR AS SHOWN ON THE ATTACHED AS-GRADED PLAN." THIS STATEMENT SHALL BE FOLLOWED BY THE DATE AND SIGNATURE OF THE CIVIL ENGINEER WHO CERTIFIES SUCH GRADING OPERATION.

20. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS

EROSION CONTROL NOTES

1. STORM WATER AND NON-STORM WATER DISCHARGE CONTROL: BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO MANAGE STORM WATER AND NON-STORM WATER DISCHARGES FROM THE SITE AT ALL TIMES DURING EXCAVATION AND GRADING ACTIVITIES

2. EROSION AND SEDIMENT CONTROL: EROSION PREVENTION SHALL BE EMPHASIZED AS THE MOST IMPORTANT MEASURE FOR KEEPING SEDIMENT ON SITE DURING EXCAVATION AND GRADING ACTIVITIES SEDIMENT CONTROLS SHALL BE USED AS A SUPPLEMENT TO EROSION PREVENTION FOR KEEPING SEDIMENT ON SITE.

3. EROSION CONTROL ON SLOPES SHALL BE MITIGATED BY INSTALLING LANDSCAPING AS PER APPROVED LANDSCAPE PLANS AS REQUIRED BY THE DEVELOPMENT REVIEW CONDITIONS, OR BY TEMPORARY EROSION CONTROL CONFORMING TO THE FOLLOWING:

	LIED AT 4,000 LB/ACI	
LBS /ACRE	% PURITY/ACRE	SEED SPECIES
20	70% PLUS	ATRIPLEX GLAUCA
50		PLANTAGE INSULARIS
8		ENCELIS FARINOSA
6	SCARIFIED	LOTUS SCOPARIUS
7	50% PLUS	EXCHSCHOLZIA CALIFORNIA
TOTAL 9118	s	

NON IDDIGATED HYDROSEED MIX WITH A RONDED EIRER

4. THE TOPS OF ALL SLOPES TALLER THAN 5' SHALL BE DIKED OF TRENCHED TO PREVENT WATER FLOWING OVER CRESTS OF SLOPES

5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER

6 SAND BAG CHECK DAMS, SILT FENCES, FIRER ROLLS OR OTHER 6. SAND BAS CHECK DAMS, SILL PERCES, FIBER ROLLS OK OTHER APPROVED BMPS SHALL BE PLACED IN UNPAVED AREAS WITH GRADIENTS IN EXCESS OF 2%, AS WELL AS AT OR NEAR EVERY POINT WHERE CONCENTRATED FLOW LEAVE THE SITE.

7. SAND BAGS SHALL BE PLACED ON THE UPSTREAM SIDE OF ALL DRAINAGE INLETS TO MINIMIZE SILT BUILDUP IN THE INLETS AND PIPES

8 THE CONTRACTOR SHALL REPAIR ANY FRODED SLOPES AS DIRECTED BY THE OFFICE OF THE CITY ENGINEER

9 THE CONTRACTOR SHALL SWEEP ROADWAYS AND ENTRANCES TO AND FROM THE SITE ON A REGULAR BASIS TO KEEP THEM FREE OF SOIL ACCUMULATION AND AT ALL OTHER TIMES DIRECTED BY THE OTHER STREET, SOURCE THE STREET OF S CITY ENGINEER

10. THE CONTRACTOR SHALL WATER SITE ON A CONTINUOUS BASIS TO MINIMIZE AIR BORNE DUST CREATED FROM GRADING AND HAULING OPERATIONS OR EXCESSIVE WIND CONDITIONS, AND AT ALL TIMES DIRECTED BY THE CITY ENGINEER

11. IN THE EVENT SILT DOES ENTER THE EXISTING PUBLIC STORM DRAIN SYSTEM, REMOVAL OF THE SILT FROM THE SYSTEM WILL BE AT THE DEVELOPER'S EXPENSE.

AS-BUILT:

UPON COMPLETION AND PRIOR TO RELEASING THE SECURITIES. THE ENGINEER UPON COMPLETION, AND PRIOR TO RELEASING THE SECURITIES, THE ENGINEER OF WORK SHALL "AS-BUILT THE ORIGINAL MYLAR PLANS. INITIALLY, TWO COPIES OF RED-LINED PLANS SHOWING ALL AS-BUILT INFORMATION, INCLUDING ALL NEW UNDERGROUND FACILITIES (MAIN LINES, SERVICES AND LATERALS), IS TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT. WHEN THE RED-LINES ARE APPROVED, THE ORIGINAL MYLAR PLANS WILL BE CHECKED OUT TO THE ENGINEER THE ENGINEER SHALL MAKE THE CHANGES, SIGN EACH SHEET UNDER "SO ULUT" AND DETIDALOWED AND WHEN THE RED-LINES UNDER "AS-BUILT", AND RETURN ORIGINAL MYLARS TO THE CITY

FLOOD STATEMENT

, A REGISTERED CIVIL ENGINEER/SURVEYOR, HEREBY CERTIFY THAT THE PAD STRUCTURES SHOWN ON THIS AS-BUILT GRADING PLAN HAVE BEEN VERIFIED BY ME AND THAT SAID ELEVATIONS ARE AT OR ABOVE THE BASE FLOOD ELEVATION SHOWN ON THE FLOOD INSURANCE RATE MAP OF THE COUNTY OF SAN DIEGO





OWNER/DEVELOPER CERTIFICATE

I. _____ AS_OWNER/DEVELOPER OF THE PROPERTY DESCRIBED HEREIN_ACKNOWLEDGE THESE PLANS HAVE PROPERTY DESCRIBED HEREIN ACKNOWLEDGE HESE PLANS HAVE BEEN PREPARED AT MY DIRECTION WITH MY FULL CONSENT. I FULLY UNDERSTAND AND ACCEPT THE TERMS AND CONDITIONS CONTAINED HEREIN AND AS ATTACHED BY REFERENCE ON THIS GRADING PLAN.

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER/DEVELOPER SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE CITY, ENGI NCCD ETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 9 MONTHS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL

DATE

ENGINEER OF WORK CERTIFICATE

ROBERT D. MAHONY I, ROBERT D. MAHONY HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED ENGINEER OF WAR FOR THE DESIGN OF THE PROJECT AS RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AND DRV DESIGN IN COMPLEXIVE OF UNDER F SOLANA BEACH RESOLUTION NO.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SOLANA BEACH AND ANY OTHER PUBLIC AGENCY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME OF RESPONSIBILITIES FOR PROJECT DESIGN

SIGNED	Robert Mahany	DATE 9/18/23
R.C.E. NO.	16459	EXP 6/30/25
FIRM	SOIL ENGINEERING COI	NSTRUCTION, INC
ADDRESS	927 ARGUELLO STREET REDWOOD CITY, CALIFO	
TELEPHON	E (760) 633-3470	

ENGINEER OF WORK AS-BUILT CERTIFICATE

ROBERT D MAHONY HEREBY DECLARE THAT THE I, <u>ROBERT D</u> MAHONY ______HEREBY DECLARE THAT THE PREPARATION OF THESE AS-BUILT DRAWINGS AND THAT THE INFORMATION SHOWN IS BASED ON ACTUAL SITE INVESTIGATIONS AND SURVEYS OF THE IMPROVEMENTS BETWEEN THE DATES OF AND ______TO THE BEST OF MY KNOWLEDGE AND EXPERIENCE THE INFORMATION SHOWN ON THESE PLANS PROVIDE AN ACCURATE AND CORRECT REPRESENTATION OF THE AS-BUILT CONDITIONS

SIGNED DATE FXP 6/30/25

DEL MAR BEACH CLUB C/O MR. TERRY HINES 825 S. SIERRA AVENUE, SOLANA BEACH, CA 92075

OWNER/APN/APPLICANT

APN: 298-240-33,35,57 APPLICANT: THE TRETTIN COMPANY

ROBERT TRETTIN 1195 LA MOREE ROAD #18

SAN MARCOS, CA 92078 (858) 603-1741

TOTAL DISTURBED AREA TOTAL SITE DISTURBED AREA APPROX : 0.01 ACRES

ODADING OUANTITIES

	IIIES	
20	(CYD)	MAX. CUT DEPTH (FT)
	[CYD]	MAX CUT SLOPE RATIO (2:1MAX) 0
0.0	[CYD]	MAX. FILL DEPTH _0[FT]
0.0	[CYD]	MAX FILL SLOPE RATIO (2:1MAX) N/A
	20 0.0 0.0	20 [CYD] 20 [CYD] 20 [CYD] 20 [CYD] 20 [CYD] 20 [CYD]

THIS PROJECT PROPOSES TO EXPORT <u>0</u>_UBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT

STORM WATER PROTECTION NOTES

2 CHECK ONE ☐ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REDUIRED ☐ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER NOT APPLICABLE

3 THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.

PROJECT CONTACTS/CONSULTANTS

DEL MAR BEACH CLUB HOA C/O MR. TERRY HINES 825 S SIERRA AVENUE SOLANA BEACH CALIFORNIA 92075 APPLICANT: THE TRETTIN COMPANY

CGP RISK

ROBERT TRETTIN

PH: (858) 603-1741

SIGNED

G.E./R.C.E. NO. 554/16459

1195 LA MOREE ROAD #18

ESCONDIDO, CALIFORNIA 92025 (760) 489-2200

STRUCTURAL DESIGN ENGINEER JEREMY CALLISTER 225 BROADWAY, STE 1325 SAN DIEGO, CA 92101

ROBERT D. MAHONY, R.C.E., C.E.G., R.G.E. 927

CIVIL ENGINEER OF RECORD SOIL ENGINEERING CONSTRUCTION, INC

ARGUELLO STREET REDWOOD CITY

CALIFORNIA 94063 (760) 633-3470

SAN MARCOS CA 92078 (619) 515-0299 LAND SURVEYOR: CIREMELE SURVEYING INC. CHRIS CIREMELE, L.L.S. 164 ESCONDIDO BLVD

SOIL ENGINEER OF RECORD: SOIL ENGINEERING CONSTRUCTION, INC ROBERT D. MAHONY, R.C.E., C.E.G., R.G.E 927 ARGUELLO STREET REDWOOD CITY CALIFORNIA 94063 (760) 633-3470

SOIL ENGINEER CERTIFICATE

I, ROBERT D. MAHONY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOIL. MECHANICS, HEREBY RECOMMENDATIONS CONTAINED IN THE APPROVED SOILS AND GEOTECHNICAL REPORTS FOR THE PROJECT. ONE COMPLETE COPY OF THE FINAL SOILS REPORT COMPILED FROM THIS STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER

SIGNED Robert Mahony DATE 9/18/23

G.E./R.C.E NO. 554/16459 EXP 6/30/25

FIRM SOIL ENGINEERING CONSTRUCTION, INC ADDRESS 927 ARGUELLO STREET REDWOOD CITY, CALIFORNIA 94063 TELEPHONE (760) 633-3470

SOILS ENGINEER AS-BUILT CERTIFICATE

TO THE BEST OF MY KNOWLEDGE AND EXPERIENCE THE GRADING CONFORMS WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT AND PLANS WITH THE EXCEPTION THAT ANY CHANGES OR DEVIATIONS FROM THE PLANS DUE TO UNFORESEEN FIELD CONDITIONS DEVIATIONS FROM THE PLANS DUE TO UNFORESEEN FIELD CONDITIONS HAVE BEEN IDENTIFIED IN THE FINAL SOLIS REPORT FOR THE PROJECT ONE COMPLETE COPY OF THE FINAL SOLIS REPORT COMPLED FROM THIS STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER

DATE

EXP 6/30/25



SQLANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CI
BY	REVIEWED BY:	By ROBERT D. MAHONY_ Date: _09/18/23 JK NAME_SOIL_ENGINEERING CONST DRAWN BY R CE _16459 EXP06/30/25			By Date: DAN GOLDBERG By Date:	By:Date: MOHAMMAD SAMMAK, CITY ENGINEER	DESCRIPTION. CITY OF SOLAKA BEACH SURVEY CONTROL POINT NO- 2001 FER RESORD OF SURVEY MAP H0, 1937. 32 CITY OF SOLANA BEACH BRASS DIRK STAMPED "SOLB-1, 15, 7322, 2005" SET ON CONCRETE BRANAGE INLET ON THE EAST SMOULDER OF HIGHWAY 101, 01 MILE SOUTH OF LOMAS SANTA FE ORIVE. ELEVATION 77 490 FEET (INVOS6)	TITLE

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE LATEST EDITIONS OF:

1. STANDARD SPECIFICATIONS:

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION INCLUDING THE REGIONAL SUPPLEMENTAL AMENDMENTS.
- (2) CALIFORNIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES"
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD (3) SPECIFICATIONS

2. STANDARD DRAWINGS:

- 1) SAN DIEGO REGIONAL STANDARD DRAWINGS
- (2) STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS

LEGEND

PROPOSED IMPROVEMENTS

MPROVEMENT STANDARD DWG PROPOSED SHOTCRETE WALL/FACING (PVT) ALSO LIMITS OF

WORK AND SOIL DISTURBANCE

PROPOSED TIEBACK (PVT) EXISTING COASTAL BLUFF EDGE

TOP OF WALL ELEVATION

IAX) N/A

R/W PROPERTY LINE



SYMBOL

SHEET INDEX	DWG. REF.	SHT. NO.
TITLE SHEET	G-001	SHEET 1
SITE PLAN	G-002	SHEET 2
GENERAL NOTES	S-001	SHEET 3
GENERAL NOTES	S-002	SHEET 4
SYMBOLS AND ABBREVIATIONS	S-003	SHEET 5
PARTIAL SITE REPAIR PLAN	C-101	SHEET 6
EROSION CONTROL PLAN	C-102	SHEET 7
SEAWALL PLAN & ELEVATION	S-102	SHEET 8
SEAWALL PLAN & ELEVATION	S-103	SHEET 9
CONCRETE REPAIR GENERAL NOTES	S S-501	SHEET 10
CONCRETE REPAIR DETAILS	S-502	SHEET 11
TYPICAL CONCRETE DETAILS	S-503	SHEET 12
SEAWALL REPAIR DETAILS	S-511	SHEET 13
SEAWALL REPAIR DETAILS	S-512	SHEET 14
CONCRETE STAIR COLUMN REPAIR	S-521	SHEET 15
UPPER BLUFF REPAIR DETAILS	S-531	SHEET 16
UPPER BLUFF REPAIR DETAILS	S-532	SHEET 17
TIEBACK DETAILS	S-541	SHEET 18

PROJECT SCOPE

PHASE 1 OF THIS PROJECT INCLUDES STRUCTURAL MAINTENANCE AND REPAIR OF THE SOUTHERN 170-FEET OF AN EXISTING 540-FOOT LONG LOWER BLUFF SEAWALL AND A LATERAL WALL ALONG THE SOUTHERN TERMINUS ON THE COASTAL BLUFF BELOW 825 S. SIERRA AVENUE, SOLANA BEACH



Sheet 1 of 18

825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075 SEAWALL AND UPPER BLUFF REPAIRS - PHASE 1


GENERAL NOTES:

GENERAL 1.

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, WITH CITY OF SOLANA BEACH AMENDMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S 2 INSTRUCTIONS OR REQUIREMENTS OF REQUATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE ENGINEER.
- DETAILS ON SHEETS TITLED 'TYPICAL DETAILS' APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR. 4.
- DO NOT SCALE THE DRAWINGS.
- PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION PROVIDE MEASURES NICLOSS ART 10 PRO LECT INE STRUCT ONE DURING CONSTRUCTION SUCH MEASURES INCLUES BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHO IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE ENGINEER WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE NGINEER. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY ACAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE EXCAVATION AND NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE EXCAVATION AND GRADING CODE, AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE POPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FUND SETTLING, CRACKING, EROSION, SILTING SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED IN THIS PLAN. THE CITY WILL HOLD THE PERMITER RESPONSIBLE FOR CORRECTION ON NON-DEDICATED IMPROVEMENTS, WHICH DAMAGE ADJACENT PROPERTY.
- THE DESIGN IS BASED ON ANTICIPATED SOIL CONDITIONS ON THE BASIS OF THE BORINGS 10. THE DESIGN IS BASED ON AN ICIPATED SOIL CONDITIONS ON THE BASIS OF THE BURINGS AND SOIL REPORT PREPARED BY SOIL ENGINEERING CONSTRUCTION, TITLED "UPDATED GEOTECHNICAL RECOMMENDATIONS - PROPOSED MAINTENANCE REPARE SUSTING LOWER BLUFF SEAWALL & SOUTH PROPERTY LINE UPPER BLUFF CAISSON SYSTEM", DATED FEBRUARY 8, 2023. IF THE ACTUAL FIELD CONDITIONS VARY FROM THE ASSUMED CONDITIONS, ADJUSTMENTS WILL BE MADE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER.
- ELEVATIONS SHOWN ARE FROM THE ORIGINAL DRAWINGS. VERIFY IN FIELD & NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING 11.

П. SUBMITTALS

- SUBMIT REQUIRED SUBMITTALS TO THE ENGINEER FOR REVIEW.
- CONCRETE REINFORCING STEEL: A SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." 2.
- CAST-IN-PLACE CONCRETE: MIX DESIGNS PREPARED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA FOR EACH CLASS OF CONCRETE. INCLUDE RESULTS OF SLUMP, SHRINKAGE AND COMPRESSION TESTS USED TO ESTABLISH MIX PROPORTIONS AND CERTIFIED MATERIAL CERTIFICATES FOR EACH COMPONENT OF THE MIX. PROPOSED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR
- PRODUCT DATA FOR CURING MATERIALS. PRODUCT DATA FOR NON-SHRINK GROUT

- SHOTCRET TRETE: MIX DESIGNS PREPARED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA FOR EACH CLASS OF CONCRETE INCLUDE RESULTS OF SLUMP, SHRINKAGE AND COMPRESSION TESTS USED TO ESTABLISH MIX PROPORTIONS AND CERTIFIED MATERIAL CERTIFICATES FOR EACH COMPONENT OF THE MX. PROPOSED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR REVIEW. PRODUCT DATA FOR CURING MATERIALS.

- STRUCTURAL STEEL

SOLANA BEACH FIRE DEPARTMENT

FIRE CHIEF

- SHOP DRAWINGS PRIOR TO FABRICATION IN ACCORDANCE WITH AISC 303 "CODE Β.
- SHOP DRAWINGS FINDATION FOR MICE TOUR IN ACCOMPANY OF STANDARD BRADGES. SUBMIT WELDING PROCEDURE SPECIFICATION (WPS) PER AWS 01.1 FOR EACH TYPE OF WELD TO BE USED ON THE PROJECT AND PRODUCT DATA FOR WELDING ELECTRODES, CLEARLY IDENTIFYING LOCATIONS FOR USE OF ELECTRODES.
- ADHESIVE ANCHORS PRODUCT DATA FOR EACH TYPE OF ADHESIVE ANCHORING SYSTEM USED.
- SEQUENCING PLAN FOR ALL WORK, INCLUDING DEMOLITION AND COLUMN SHORING, INDICATING SEQUENTIAL AND CONCURRENT OPERATIONS.
- SHOP DRAWINGS FOR ALL TIEBACKS INDICATING THE ASTM MATERIAL DESIGNATIONS, MEMBER DIMENSIONS, INSTALLATION PROCEDURES, EMBEDMENT DEPTHS, DESIGN LOADS, AND CONNECTION DETAILS
- CERTIFIED MILL TEST REPORTS FOR EACH OF THE FOLLOWING: A. EACH HEAT OF TIEBACK
- TEST DATA CERTIFYING THAT TIEBACK HAS SUITABLE PHYSICAL PROPERTIES TO FULLY DEVELOP THE MINIMUM GUARANTEED ULTIMATE TENSILE STRENGTH OF THE TIEBACK 10

SANTA FE IRRIGATION DISTRICT

REVIEWED BY

DATE: DISTRICT REP.

III. FORMWORK

2.

- DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" UNLESS OTHERWISE NOTED. PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE. PROVIDE 3/4 INCH x 3/4 INCH CHAMFER STRIPS ON ALL EXTERNAL CORNERS OF BEAMS, COLUMNS AND WALLS, UNLESS OTHERWISE NOTED. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING REMOVE NO SOONER THAN 7 DAYS AND F'C = 3500 PSI MINIMUM LOCATION BOTTOM FORMS AND SHORES FOR MILDLY REIN SLABS, BEAMS AND GIRDERS SIDE FORMS FOR BEAMS AND SIRDERS COLUMNS AND WALLS FOOTINGS AND GRADE BEAMS 72 HOURS 48 HOURS PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS.
- FOAM FILL: ASTM C578, EXPANDED POLYSTYRENE (EPS) WITH MINIMUM COMPRESSIVE STRENGTH OF 40 PSI AT 10% DEFORMATION.

REINFORCING STEEL IV.

- FABRICATE AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED.
- REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED 2.

REINFORCING STEEL	TYPE
#5 AND SMALLER	ASTM A615, 60 KS
#6 AND LARGER & BARS TO BE WELDED	ASTM A706, 60 KS
HIGH STRENGTH REINF WHERE NOTED ON DWGS	ASTM A615, 75 KS
1/2 INCH DIAMETER LOW RELAXATION SEVEN-	
WIRE POST-TENSIONING STRAND	ASTM A416, 270 K
WELDED STEEL WIRE FABRIC	ASTM A185, 70 KS
SMOOTH DOWELS IN SLAB ON GRADE	ASTM A36, 36 KSI

- ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.
- MECHANICAL COUPLERS: TYPE 2 PER ACI-318, UNLESS OTHERWISE NOTED. 4
- WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED
- TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN.
- ALL STEEL REINFORCEMENT TO EPOXY COATED

EPOXY-COATED REINFORCEMENT V

- REINFORCEMENT SHALL BE SHOP FABRICATED PRIOR TO COATING AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 284.
- VISIBLE VOIDS IN THE COATING, REGARDLESS OF CAUSE, SHALL BE PATCHED IF THE TOTAL AREA OF VOIDS EXCEEDS 0.25% OF THE SURFACE AREA OF THE BAR BARS THAT REQUIRE SURFACE AREA PATCHING LESS THAN 5% OF THE TOTAL SURFACE AREA OF THE BAR MAY BE FIELD COATED WITH AN APPROVED PATCH MATERIAL SUPPLIED BY THE EPOXY FABRICATOR. BARS WHICH REQUIRE SURFACE PATCHING IN EXCESS OF 5% OF THE TOTAL SURFACE AREA OF THE BAR WILL BE REJECTED.
- ALL SYSTEMS FOR HANDLING COATED BARS SHALL HAVE PADDED CONTACT AREAS FOR THE BARS WHENEVER POSSIBLE ALL BUNDLING BANDS SHALL BE PADDED AND ALL BUNDLES WHALL BE LIFTED WITH STRONG BACK, MULTIPLE SUPPORTS OR A PLATFORM BRIDGE SO AS TO PREVENT BAR-TO-BAR ABRASION FROM SAGS IN THE BAR BUNDLE.
- ALL STEEL REINFORCEMENT TO BE EPOXY COATED.

CAST-IN-PLACE CONCRETE

ENGINEER OF WORK

NAME DEGENKOLB ENGINEERS

LH

DATE

DRAWN BY R.C.E. S.5646

By: JEREMY T. CALLISTER Date: 9/18/2023

EXP:

- PROPORTION, MIX, TRANSPORT AND PLACE CAST-IN-PLACE CONCRETE IN ACCORDANCE VITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" UNLESS OTHERWISE
- CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES AT THE FOLLOWING LOCATIONS: [WHERE CAST AGAINST EXISTING CONCRETE; AT WALL, COLUMN AND BEAM JOINTS; WHERE CAST EXISTING MASONRY/STONE, ETC.]
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
- CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE

LOCATION	CLEAR COVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER	
OR IN CONTACT WITH EARTH:	
#6 BARS AND LARGER	2 INCHES
#5 BARS AND SMALLER	1 1/2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT	
EXPOSED TO WEATHER OR EARTH:	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED	
TO WEATHER OR EARTH:	
#5 & SMALLER	3/4 INCH
#6 & #7	1 INCH
#8, #9, #10 & #11	1 1/2 INCHES
#14 & #18	2 1/2 INCHES

CITY APPROVED CHANGES

Description

Α.	SEAWALL AND BLUFF INFILL AND STAIR COLUMNS: a. 28-DAY STRENGTH: FC 5,000 PSI b. TYPE: NORMAL WEIGHT c. WATER-CEMENT RATIO: 0.40 MAX	
	d WATER-SOLUBLE CHLORIDE ION CONTENT IN CEMENT: 0.15 MAX SQUUBLE CHLORIDE ION CONTENT THAT IS CONTRIBUTED FROM THE DIENTS INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND TURES SHALL BE DETERMINED ON THE CONCRETE MIXTURE BY ASTM C1218 AT ETWEEN 28 AND 42 DAYS.	
Α.	G SHRINKAGE: PER ASTM C192 & C157, MEASURED AT 28 DAYS AIR DRY AGE. TYPICAL: 0.050 MAXIMUM. PROVIDE SHRINKAGE REDUCING ADMIXTURE WHEN SHRINKAGE TEST DATA NOT AVAILABLE.	5.
ELY AS	IH: ASTM C618, CLASS F. MINIMUM OF [25] PERCENT OF CEMENTITIOUS MATERIAL IGHT.	6.
NCLUE A. B.	TURES TO BE COMPATIBLE WITH ALL OTHER COMPONENTS IN THE MIX AND DEDIN THE MX DESION, WHEN USED COMPLY THE FOLLOWING: AIR ENTRAINMENT: ASTM C260. WATER REDUCING, RETARDING AND ACCELERATING: ASTM C494, TYPES A THROUGH G. SHRINKAGE REDUCING: ASTM C494 & ASTM C157.	IX.
	NUOUSLY MOIST CURE CONCRETE SLABS ON GRADE FOR 7 DAYS MINIMUM USING	1.
NATER	R FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS OR MOISTURE NING COVERS.	

- LIQUID CURING COMPOUND: ASTM C309, TYPE1, CLEAR OR TRANSLUCENT. A. FOR SURFACES TO BE FINISHED, CONFIRM THAT CURING COMPOUND IS COMPATIBLE WITH FINISH. 12.
- NON-SHRINK GROUT: ASTM C1107, WITH MINIMUM COMPRESSIVE STRENGTH OF 13.

SHOTCRETE VII.

CONCRETE TYPES:

6.

7

8.

10.

11.

- PROPORTION, MIX, TRANSPORT AND PLACE SHOTCRETE IN ACCORDANCE WITH ACI 5062 "SPECIFICATION FOR SHOTCRETE" U.O.N. TOLERANCES FOR SHOTCRETE TO CONFORM TO ACI 117 "STANDARD SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS" FOR CAST-IN-PLACE CONCRETE.
- USE SHOTCRETE ONLY WHERE DESIGNATED ON THE DRAWINGS. NO SUBSTITUTION OF SHOTCRETE FOR CAST-IN-PLACE CONCRETE IS ALLOWED. 2.
- COMPLY WITH THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE AND REINFORCING STEEL SECTIONS OF THESE GENERAL NOTES, EXCEPT AS MODIFIED IN THIS SECTION
- SHOTCRETE TYPES: 4 LOCATION SEAWALL
- MAXIMUM AGGREGATE SIZE: 3/8 INCH
- MEAN CORE GRADE PER ACI 506.2: 2.5
- A PREQUALIFICATION TEST PANEL IS REQUIRED FOR EACH NOZZLEMAN EACH TEST PANEL TO BE 4 FEET BY A FEET BY 8 INCHES THICK AND TO HAVE REINFORCING STEEL SIMILAR TO THE MOST CONGESTED CONDITION ON THE PROJECT. A MEAN TEST PANEL CORE GRADE IS REQUIRED FOR EACH NOZZLEMAN.

28-DAY STRENGTH

- CLEAN SUBSTRATES AND FORMS OF LOOSE OR UNSOUND MATERIAL PRIOR TO THE PLACEMENT OF SHOTCRETE. WET CEMENTITIOUS OR ABSORPTIVE SUBSTRATES AND FORMS PRIOR TO SHOOTING. DO NOT PLACE SHOTCRETE AGAINST SURFACES WITH STANDING OR RUNNING WATER.
- COMPLETELY FILL AREAS AND COMPLETELY ENCASE REINFORCEMENT. REMOVE REBOUND AND OTHER LOOSE MATERIAL FROM NEW CONSTRUCTION.
- 10 DO NOT REUSE REBOUND OR OVERSPRAY.
- FINISHED APPEARANCE / COSMETIC SHOTCRETE: IT IS THE INTENT OF THESE SPECIFICATIONS THAT THE COMPLETED FACING COSMETIC SHOTCRETE ON ANCHORED WALLS HAVE AN UNEVEN SUFFACE PROFILE AND COLOR SIMILAR IN APPEARANCE TO THAT OF THE ADJACENT BLUFFS. 11
- KEEP SHOTCRETE CONTINUOUSLY MOIST BY DIRECT WATER APPLICATION FOR 24 APPROVED MOISTURE-RETAINING COVER, MEMBRANE, OR CURING COMPOUND UNTIL 7 DAYS AFTER SHOOTING.
- LIQUID CURING COMPOUND: ASTM C309, TYPE1, CLEAR OR TRANSLUCENT. A. FOR SURFACES TO BE FINISHED, CONFIRM THAT CURING IS COMPATIBLE WITH 13.
 - FINISH. APPLY AT TWICE THE MANUFACTURER'S RECOMMENDED COVERAGE.

VIII. STRUCTURAL STEEL

3

RECOMMENDED FOR APPROVAL

Date

APP'D DAT

No. Date

- FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 360, AISC 303 AND AISC 340. WELDED CONNECTIONS TO CONFORM TO AWS D1.1 AND D1.8
- STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED.

SECTIONS	TYPE
ROLLED SHAPES:	10TH 1000
	ASTM A992
	ASTM A36
PLATES:	10TH 1570 0D 50
COLUMN BASE PLATES	ASTM AS72, GR 50
BRACE GUSSET PLATES	
BEAM SHEAR CONNECTION PLATES	
COLUMN CONTINUITY PLATES	ASTM A372, GR 50
BEAM STIFFENER PLATES EDGE OF DECK BENT PLATE	ASTM A36
OTHER	ASTM A50 ASTM A572, GR 50
STEEL PIPE	ASTM A572, GR 50 ASTM A53 GRADE B
COLD FORMED STRUCTURAL TUBING (HSS) STAINLESS STEEL SHAPES, PLATES & BARS	ASTM ADDU GRADE B
BOLTS MACHINE BOLTS STAINLESS STEEL BOLTS ANCHOR RODS	ASTM P3125. GRADE A325A, P1652A
STAINLESS STEEL BOLTS	ASTM A193 BBM. CLASS 1
ANCHOR RODS	ASTM F1554, GR55 W/ WELDABLE
ANCHOR RODS	SUPPLEMENT S1
ALL-THREAD ROD AND THRU BOLTS	
HIGH STRENGTH ALL-THREAD ROD	ASTM (A30,A372, GR30) ASTM A193 B7, GR105
STAINLESS STEEL ALL-THREAD ROD	ASTM A193 B8M CLASS 2
HANGER ROD	ASTM A572, GR50
WELDED SHEAR STUD CONNECTORS	ASTM A108, GRADE 1015 TO1020
WELDED THREADED STUDS	ASTM A108, GRADE 1015 TO 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
STAINLESS STEEL NUTS	ASTM A194 GR8M
HARDENED WASHERS FOR BOLTS	
UNHARDENED FLAT WASHERS	ASTM F844, ANSI B18.22.1
STAINLESS STEEL WASHERS	ASTM A276, TYPE 304
BEVELED WASHERS	ANSI B18.23.1

HOT DIP GAI VANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL

STEEL AND FASTENERS. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780, HOT-DIP GALVANIZE ASTM F1554 RODS IN ACCORDANCE WITH ASTM F2329.

APPROVED FOR CONSTRUCTION

STSTEM (SFRS), WHERE DESIGNATED OD ON THE DRAWINGS AND THE POLLOWING LOCATIONS: A. COMPLETE JOINT PENETRATION WELDS. B. BEAM TO COLUMN MOMENT CONNECTIONS – INCLUDING FLANGE, WEB, DOUBLER PLATES, BASE PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS. C. BRACE CONNECTIONS – INCLUDING BRACE, GUSSET, BASE PLATES, BEAM PENETRATION WELDS. COLLECTORS – SHEAR TABS, FLANGE AND WEB WELDS. D

4.

ADHESIVE ANCHORS AND DOWELS IX.

ROD DIA OR BAR SIZE		TEST LO	AD (LBS)
	CMIN	ANCHOR LOCATED > CMIN & < 12" FROM EDGE	ANCHOR LOCATED ≥ 12 FROM EDGE
3/8", #3	2"	1,300	1,600
1/2", #4	2 1/2"	2,000	3,400
5/8", #5	3"	2,800	4,200
3/4", #6	4"	3,700	5,000
7/8", #7	4 1/2"	3,700	5,000
1", #8	5"	4,800	6,100

- MANUEACTURER INSTRUCTIONS
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS. 9.

EROSION CONTROL NOTES

- AND GRADING ACTIVITIES.

- 6.

BENCH MARK DESCRIPTION, CITY OF SOLANA BEACH SURVEY CONTROL POINT NO

DESCRIPTION, CITOT SOLARA BEACH SURVET CONTINCE FORT NO 2001 PER RECORD OF SURVEY MAP NO. 18971. 2.5 °CTVO F SOLANA BEACH BRASS DISK STAMPED "SOLB-1, LS 7322, 2005" SET ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101, 0.1 MILE SOUTH OF LOMAS SANTA FE DRIVE.

ELEVATION: 71.450 FEET (NAVD88)

ARC-WEI DING ELECTRODES/EILLER METALS TO BE LOW HYDROGEN TYPES F7XTX F7XTXX ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW FINGOGEN THESE TATA, EVALAS OR ETXXXX MINIMUM AS APOLCABLE. ELECTRODES WITH CHARPY VINOSCH TESTS VALUES OF A MINIMUM 20 FOOT-POUNDS AT 0 DEGREES FAHRENHEIT AND 40 FOOT- POUNDS AT 70 DEGREES FAHRENHEIT ARE TO BE USED AT ALL WELDS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS), WHERE DESIGNATED 'DC' ON THE DRAWINGS AND THE FOLLOWING

STIFFENER PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOIN

WELDERS TO BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 WITH SUPPLEMENTAL QUALIFICATIONS PER AWS D1.8.

WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.

ANCHORS AND DOWELS INSTALLED INTO CONCRETE: HILTI HIT-RE-500-V3 (ICC-ESR-3314), SIMPSON STRONG-TIE SET-3G (ICC-ESR-4057) OR DEWALT PURE 110+ (ICC-ESR-3298), ALL EMBEDMENT DEPTHS NOTED ON DRAWINGS ARE EFFECTIVE EMBEDMENT PER MANUFACTURER.

THE TESTING LABORATORY IS TO PERFORM TENSION TESTS ON 10% OF ANCHORS AND DOWELS INSTALLED INTO CONCRETE TO THE FOLLOWING TEST LOADS:

ANCHORS AND DOWELS INSTALLED INTO UNREINFORCED BRICK MASONRY (URM): HILTI-HY 270 (ICC-ESR-4144), SIMPSON STRONG-TIE SET (ICC-ESR-14772), OR DEWALT AC100+ GOLD (ICC-ESR-4105), USE SCREENS AS SPECIFIED BY THE MANUFACTURER.

ANCHORS: ASTM A36 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS.

REBAR DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.

INSTALL ANCHORS IN ACCORDANCE WITH LATEST ICC-ESR REPORT AND

IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCERE EBTWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.

STORM WATER AND NON-STORM WATER DISCHARGE CONTROL: BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO MANAGE STORM WATER AND NON-STORM WATER DISCHARGES FROM THE SITE AT ALL TIMES DURING EXCAVATION

EROSION AND SEDIMENT CONTROL: EROSION PROTECTION SHALL BE EMPHASIZED AS THE MOST IMPORTANT MEASURE FOR KEEPING SEDIMENT ON SITE DURING EXCAVATION AND GRADING ACTIVITIES. SEDIMENT CONTROLS SHOULD BE USED AS A SUPPLEMENT TO EROSION PREVENTION FOR KEEPING SEDIMENT ON SITE.

THE TOPS OF ALL SLOPES SHALL BE DIKED OR TRENCHED TO PREVENT WATER FLOWING OVER CRESTS OF SLOPES.

THE CONTRACTOR SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE OFFICE OF THE CITY ENGINEER.

THE CONTRACTOR SHALL SWEEP ROADWAYS AND ENTRANCES TO AND FROM THE SITE ON A REGULAR BASIS TO KEEP THEM FREE OF SOIL ACCUMULATION AND AT ALL OTHER TIMES DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL WATER SITE ON A CONTINUOUS BASIS TO MINIMIZE AIR BORNE DUST CREATED FROM GRADING AND HAULING OPERATIONS OR EXCESSIVE WIND CONDITIONS, AND AT ALL TIMES DIRECTED BY THE CITY ENGINEER

IN THE EVENT SILT THE DOES ENTER THE EXISTING PUBLIC STORM DRAIN SYSTEM, REMOVAL OF THE SILT FROM THE SYSTEM WILL BE AT THE CONTRACTOR'S EXPENSE





CITY OF SOLANA BEACH GENERAL NOTES

ENGINEERING DEPARTMENT

DRAWING NO S-001

825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075 DEL MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS PHASE 1

Sheet 3 of 18

GENERAL NOTES CONT:

- XI. PERMANENT TIEBACKS
- PERMANENT TIEBACK RODS SHALL BE COLD STRETCHED HIGH STRENGTH ALLOY THREADED STEEL BARS (THREADBARS) FABRICATED FROM STEEL CONFORMING TO ASTM A722 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 150,000 PSI (REGULAR GRADE D'WUDAG BARS). THE UNBONDED LENGTH SHALL BE COVERED IN A SMOOTH PLASTIC SHEATHING, SUCH AS PVC OR POLYETHYLENE, TO PREVENT BONDING, RODS SHALL BE FULL LENGTH WITHOUT SPLICES OR COUPLERS, UNKINKED, AND FREE FROM NICKS OR ABRASIONS.
- PERMANENT TIEBACK STRANDS SHALL BE EPOXY COATED, EPOXY-FILLED IN THE INTERSTICES BETWEEN THE STRAND WIRES, GRIT-IMPREGNATED, 0.6-INCH NOMINA DIAMETER LOW-RELAXATION STRAND, CONSISTING OF 7 STRESS-RELIEVED STEEL WIRES. THE STRAND SHALL BE IN ACCORDANCE WITH ASTM A882. THE STEEL STRAND BENEATH THE COATING SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGT HO 7270 KSI, IN ACCORDANCE WITH ASTM A416, PLUS SUPPLEMENTS FOR LOW-RELAXATION WIRE AND LOW-RELAXATION STRAND. WIRES SHALL BE FULL LENGT HUTHOUT SHORE SOLVER OF STRAND. WIRES SHALL BE FULL LENGTH WITHOUT SHORE OF CONDUCTIVE DE NOT BORE AND THE STRAND. FULL LENGTH WITHOUT SPLICES OR COUPLERS, UNKINKED, AND FREE FROM NICKS OR ABRASIONS. USE FLOFIL STRANDS, SUPPLIED BY INSTEEL INDUSTRIES, INC., OR APPROVED EQUIVALENT FOR PERMANENT TIEBACKS.
- PERMANENT TIEBACK ASSEMBLIES SHALL BE DOUBLE CORROSION PROTECTED OVER THE ENTIRE LENGTH OF THE ANCHOR. DOUBLE CORROSION PROTECTION SHALL CONSIST OF EPOXY COATED BARS, OR EPOXY COATED/FILLED STRANDS, IN CONTINUOUS GROUT. OVER THE UNBONDED LENGTH THE BARSISTRANDS SHALL BE INDIVIDUALLY GREASED AND SHEATHED TO PREVENT BONDING. CORRUGATED PE SHEATHING SHALL BE PROVIDED OVER THE LENGTH OF THE TIEBACK. 3.
- ANCHORAGES SHALL BE CAPABLE OF DEVELOPING NO LESS THAN 95% OF THE MINIMUM ULTIMATE TENSILE STRENGTH OF THE TENDONS, AND SHALL CONFORM TO THE STATICS TERMOSTH REQUIREMENTS OF THE PTI-SUIDE SPECIFICATION FOR POST-TENSIONING MATERIALS." AT BARS, ANCHOR HEADS SHALL BE DESIGNED TO ACCEPT THE BAR LOADS AND TRANSFER THE ENTIRE LOAD ONTO THE BEARING. ACCET THE DATA IDODA AND INANSTEA THE ENTIRE LODD DWTO TO ACCEPT INDIVIDUAL STRAND LOADS, SEAT THE WEDGES, AND TRANSFER THE ENTIRE TENDON LOAD ONTO THE BEARING PLATE.
- WEDGES FOR STRAND TIEBACKS SHALL BE BITE-THROUGH WEDGES, SPECIFICALLY DESIGNED AND MANUFACTURED FOR EPOXY COATED STRAND. REMOVAL OF EPOX COATING TO ACCOMMODATE CONVENTIONAL WEDGES IS NOT ALLOWED.
- CENTRALIZERS AND SPACERS SHALL BE STEEL OR PLASTIC. WOOD SHALL NOT BE CENTRALZERS AND SPACERS SHALL BE DESIGNED TO WITHSTAND LATERAL LOADS FROM USED. CENTRALZERS SHALL BE DESIGNED TO WITHSTAND LATERAL LOADS FROM THE BARS OR TENDONS. COMBINATION SPACER/CENTRALIZERS ARE ACCEPTABLE. SPACERS AND CENTRALZERS SHALL NOT RESTRICT THE PASSAGE OF GROUT, AND SHALL BE ATTACHED SO THEY ARE RESTRAINED FROM MOVING UP OR DOWN THE BARS/STRANGS DURING INSTALLATION OR GROUTING.

THE SPACERS AND CENTRALIZERS SHALL MEET THE FOLLOWING ADDITIONAL CRITERIA FOR STRAND TIEBACKS:

- SPACERS SHALL SEPARATE THE TENDON STRANDS SO THAT THE SURFACE OF EACH STRAND CAN BE SURROUNDED BY GROUT AND SO THAT INDIVIDUAL STRANDS HAVE CLEARANCES OF NO LESS THAN 0.5 INCHES FROM EACH OTHER.
- CENTRALIZERS SHALL PROVIDE A MINIMUM 0.5 INCHES OF GROUT COVER BETWEEN THE OUTER PERIMETER ROW OF TENDON STRANDS AND THE BOREHOLE WALL.
- C. WHERE PE SHEATHING IS PRESENT, CENTRALIZERS SHALL PROVIDE 0.5 INCHES OF GROUT COVER BETWEEN THE STRANDS AND THE SHEATHING AND AT LEAST 0.5 INCHES OF GROUT COVER BETWEEN THE PE SHEATHING AND THE BOREHOLE.
- ALL METAL COMPONENTS OF THE BAR/STRAND ANCHORAGE SYSTEM SHALL BE COMPATIBLE WITH RESPECT TO THEIR CORROSION POTENTIAL AND THE SOLDIER BEAM CONNECTION
- HANDLING, SHIPPING, AND STORAGE SHALL BE CONDUCTED IN A MANNER THAT PROTECTS ALL BARS AND TENDON ASSEMBLIES AND HARDWARE FROM MECHANICAL DAMAGE, BARSION, CORROSION, CHEMICAL ATTACK, AND DIRT. EACH BAR/TENDON SHALL BE TAGGED AND IDENTIFIABLE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE PROPER STORAGE FACILITIES ON SITE FOR THE TIME BETWEEN DELIVERY AND INSTALLATION OF BAR/STRANDS AND HARDWARE. STORAGE FACILITIES SHALL BE DRY AND SHALL PROTECT FPOXY-COATED BAR/SISTRAND FROM EXPOSURE TO SUNLIGHT. IMPROPER HANDLING, SHIPMENT, OB STOPAGE FAULT INS SHALL POTO SUNLING. OR STORAGE WILL BE SUFFICIENT CAUSE FOR REJECTION OF TENDONS.
- THE BARS/TENDONS SHALL BE HANDLED AND PROTECTED DURING THEIR INSERTION IN THE HOLES IN SUCH A MANNER THAT PREVENTS PHYSICAL DAMAGE AND SHARP BENDS AND PROTECTS THE EPOXY COATING AND OTHER CORROSION PROTECTION ELEMENTS. SPECIAL MEASURES SHALL BE TAKEN TO PREVENT ABRASION OF THE BARS/TENDORS AT THE BORHENDE COLLAR. FOR STRAND TIEBACKS EACH TENDON SHALL BE FITTED WITH A PROTECTIVE NOSE CONE PRIOR TO INSERTION TO KEEP INDIVIDUAL STRAND TIPS FROM CATCHING ON THE BOREHOLE WALLS.
- THE CONTRACTOR SHALL CUT THE BAR/TENDON STRAND LENGTHS PROTRUDING BEYOND THE ANCHOR HEAD. CUTTING OF BAR/TENDON PROTRUSIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE PREFERRED METHOD IS BY ABRASIVE BLADES. USE OF A CUTTING TORCH IS NOT ACCEPTABLE. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR HEAD HARDWARE PACKAGE THE EXPOSED CUT ENDS OF THE BARSTRANDS SHALL BE CORROSION PROTECTED WITH EPOXY MATERIALS PER MANUFACTURERS RECOMMENDATIONS.
- STRUCTURAL GROUT FOR TIEBACK HOLES SHALL CONTAIN A MINIMUM OF 10 SACKS OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN DAYS. GROUT SHALL BE PUMPED INTO PLACE FROM THE BACK OF THE HOLE TOWARD THE FRONT. PERMANENT TIEBACKS SHALL BE FULLY GROUTED WITH STRUCTURAL GROUT FROM END TO END. 11.

- XII. TIEBACK INSTALLATION
- TIEBACK DETAILS AND PERFORMANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SELECT MATERIALS AND PROCEDURES SUITABLE FOR THE SITE AND THE PROJECT CONSISTENT WITH THE CONTRACT DOCUMENTS. THE BONDED TIEBACK LENGTHS INDICATED ON THE DRAWINGS ARE FOR SUIDANCE ONLY. THE INDICATED TIEBACK BONDED LENGTHS MAY BE FOR OUNDARCE UNLT. THE INUICATED TEBACK BUNDED LENGTHS MAY BE ALTERNATIVELY DETERMINED BASED ON IN SITU TESTING. ULTIMATELY, THE BONDED LENGTHS SHALL BE SUFFICIENT TO DEVELOP THE INDICATED TEST LOADS, AND THE BOREHOLE DIAMETER, ANCHOR LENGTH, INSTALLATION PROCEDURES, CURING TIME, AND ADJUSTMENTS PER ACTUAL FIELD CONDITIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2 TIEBACK HOLES SHALL BE FITHER DRILLED WITH CASING OR THE GEOTECHNICA TEBACK HOLES STALL BE EITHER DRILLED WITH CASING OK THE GEOLEVINICAL EIGNINEER MAY PERMIT NO CASING BASED ON FIELD OBSERVATIONS. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER REGARDING ALTERNATIVE DRILLING PROCEDURES AT ADVERSE CONDITIONS.
- HOLES DRILLED FOR TIE-BACK ANCHORS SHALL BE DONE WITHOUT DETRIMENTAL LOSS OF GROUND, SLOUGHING OR CAVING OF MATERIALS, AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED SHORING MEMBERS OR EXISTING FOUNDATIONS FOUNDATIONS
- DRILLING SHALL BE PERFORMED WITH CARE IN VICINITY OF POTENTIAL DRILLING SHALL BE PERFORMED WITH CARE IN VICINITY OF POTENTIAL OBSTRUCTIONS. CONTRACTOR SHALL USE CARE IN CONTROLLING AND MEASURING DRILL ANGLE. TIEBACK LENGTHS, ANGLES, AND LOCATIONS HAVE BEEN COORDINATED TO THE FLULEST EXTENT POSSIBLE TO AVOID OBSTRUCTIONS. HOWEVER, IF OBSTRUCTIONS ARE ENCOUNTERED PRIOR TO COMPLETION OF DRILLING, THE HOLE SHALL BE ABANDONED AND FILLED WITH NEAT CEMENT GROUT. NOTIFY THE SHORING ENGINEER FOR DIRECTION. A NEW HOLE WITH THE ANGLE ADJUSTED SHALL BE DRILED.
- 5. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE HOLE PRIOR TO PLACEMENT OF ALL LOUGE WATENAL STALL BE REMOVED THE FILE PRIOR TO FLACEMENT OF THE TIEBACK, WHERE TIEBACKS EXTEND BELOW WATER TABLE, WATER MAY REMAIN IN THE CASED HOLD PROVIDED GROUT IS PLACED BY A GROUT TUBE EXTENDING TO THE BOTTOM OF THE HOLE.
- DO NOT INSTALL TIEBACK ROD UNTIL INSPECTOR OF RECORD AND GEOTECHNICAL ENGINEER HAVE VIEWED AND APPROVED THE HOLE.
- INSTALL GROUT OVER THE FULL LENGTH OF THE TIEBACK. GROUTING METHODS INSTALL SRUDI VIEW HE POLS SHALL ENSURE HAT ALL VOIDS ARE FILLED AND THAT TIEBACKS MEET TESTING CRITERIA. ALL TIEBACKS SHALL BE EQUIPPED WITH POST GROUTING TUBES. POST GROUTING PROCEDURES SHALL BE USED AT ALL THEACKS.
- GROUT MIXER SHALL PRODUCE GROUT FREE OF LUMPS AND INDISPENSED CEMENT. GROUTING EQUIPMENT SHALL BE SIZED TO ENABLE THE GROUT TO BE PUMPED IN A CONTINUOUS OPERATION. THE MIXER SHALL BE CAPABLE OF CONTINUOUSLY AGITATING THE GROUT. 8.
- 9 CONTRACTOR SHALL RECORD GROUT PRESSURE AND QUANTITY OF GROUT PLACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REGROUTING, REDRILLING, OR REPLACEMENT OF TIEBACKS THAT FAIL TO MEET TEST CRITERIA 10.
- 11 TIEBACK TESTING MAY COMMENCE 3 DAYS AFTER POST-GROUTING OPERATIONS PROVIDED GROUT COMPRESSIVE STRENGTH HAS REACHED 3000 PSI.
- 12. AFTER THE HIGH STRENGTH GROUT HAS ACHIEVED 3000 PSI, THE TIEBACK SHALL BE STRESSED IN THE FOLLOWING MANNER
 - Α. INSTALL ANCHORAGE.

13.

- PERFORMANCE TEST SELECT TIEBACKS IN ACCORDANCE WITH THE TIEBACK TESTING SECTION OF THESE GENERAL NOTES. В.
- PROOF TEST EVERY TIEBACK BY STRESSING TO TEST LOAD SHOWN IN THE SCHEDULE ON S-541 AND MAINTAINING THAT LOAD FOR 30 MINUTES. PROOF TEST IS SUCCESSFUL IF THE CRITERIA FOR PERFORMANCE TESTS, FOUND IN THE TIEBACK TESTING SECTION OF THESE GENERAL NOTES, ARE MET. C.
- TEMPORARILY STRESS ANCHOR TO MAXIMUM 80% OF GROSS ULTIMATE TENSILE STRENGTH (GUTS) TO COMPENSATE FOR WEDGE SEATING LOSSES. ANCHOR SYSTEMS SUPPLIER TO PROVIDE STRESSING DATA SHEET PRIOR TO STRESSING.
- ADJUST LOAD TO THE LOCK LOAD SHOWN IN THE TIEBACK SCHEDULE ND SECURE ANCHORAGE DEVICES
- IF THE TIEBACK FAILS TO MAINTAIN THE TEST LOAD FOR TEN MINUTES, USE POST GROUTING PROCEDURES TO REPAIR TIEBACKS. A TUBE SHALL BE PROVIDED WITH THE TIEBACK FOR SUCH PURPOSES. AFTER POST GROUTING THE TIEBACKS SHALL BE RE-TESTED. IF THE TIEBACK STILL FAILS, AN ADDITIONAL TIEBACK SHALL BE ADDED AT THE DIRECTION OF THE SHORING ENGINEER AT THE CONTRACTOR'S
- THE MINIMUM PRESSURE FOR POST GROUTING SHALL BE 300 PSI, SUBJECT TO CONTROL TO PREVENT EXCESSIVE HEAVE OR FRACTURING. POST GROUTING SHALL TAKE PLACE AFTER INITIAL GROUT HAS SET FOR 24 HOURS. POST GROUTING SHALL OCCUR IN THE BONDED LENGTH ONLY. THE POST-GROUT PRESSURE SHALL BE SUFFICIENT TO FRACTURE THE INITIAL GROUT AND THEREAFTER SHALL BE REDUCED TO 300 PSI. THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF GROUT TO BE PLACED AND THE NUMBER OF TIMES TO POST GROUT.

- TIEBACK TESTING XIII.
- REVIEW MILL CERTIFICATIONS FOR ALL TIEBACK STEEL
- PERFORM MATERIAL TESTING OF TIEBACKS, TWO SAMPLES OF EACH HEAT SHALL BE TENSION TESTED.
- PERFORM COMPRESSION TESTS OF TIEBACK GROUT USED DAILY. PREPARE 4 CYLINDERS OR CUBES AND TEST TWO SAMPLES AT 4 DAYS AND 1 SAMPLE AT 7 DAYS. ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING, IF REQUIRED.
- VISUALLY INSPECT EACH TIEBACK ASSEMBLY IMMEDIATELY PRIOR TO INSERTION IN THE HOLE. THE PURPOSE OF THE INSPECTION WILL BE TO ASCERTAIN THE SUITABILTY AND ACCEPTABLITY OF THE ASSEMBLY FOR INSERTION INTO THE HOLE. THE PRESENCE OF ANY UNACCEPTABLE CONDITION OR DAMAGE SHALL BE SUFFICIENT CAUSE FOR REJECTION. A PARTIAL LIST OF UNACCEPTABLE CONDITIONS AND TYPES OF DAMAGE INCLUDES: ABRASIONS, KINDS, WELDS, WELD SPLATTERS, AND CUTS. ASSEMBLIES SHALL ALSO BE FREE OF DIRT, GREASE, OIL, DETRIMENTAL RUST, PITTING, AND ALL OTHER DELETERIOUS SUBSTANCES.
- PROOF-TEST EVERY TIEBACK, UNLESS OTHERWISE NOTED. REFER TO TIEBACK INSTALLATION SECTION OF THESE GENERAL NOTES FOR ADDITIONAL INFORMATION AND PTI MANUAL FOR ADDITIONAL REQUIREMENTS.
- PERFORMANCE-TEST TWO PERCENT OF THE TIEBACKS OR A MINIMUM OF THREE TERACKS, WININGWEYES I WO PERCENTOF THE TIEBACKS, OR MININGWO FIRKE TIEBACKS, WINICHVER IS GREATER. THE FIRST PRODUCTION TIEBACK SHALL BE PERFORMANCE TESTED. THE ENGINEER SHALL SELECT THE REMAINING TIEBACKS TO BE PERFORMANCE TESTED. DERFORMANCE TESTING OT TIEBACKS SHALL BE IN ACCORDANCE WITH PTI (2004) AND THE FOLLOWING PROCEDURES:
- THE PERFORMANCE TEST SHALL BE MADE BY INCREMENTALLY LOADING AND UNLOADING THE TIEBACK IN ACCORDANCE WITH THE SCHEDULE ON S-541. THE LOAD SHALL BE RAISED FROM ONE INCREMENT TO ANOTHER IMMEDIATELY AFTER A DEFLECTION READING. DEFLECTION READINGS SHALL a. IMMEDIATELT AFTER A DEFLECTION READING DEFLECTION READINGS SALE BE RECORDED TO THE NERREST 0.001 INCHES WITH RESPECT TO AN INDEPENDENT FIXED REFERENCE POINT. THE FIXED REFERENCE FOR MOVEMENT RECORDING SHALL BE A FREE STANDING TRIPOD-MOUNTED DIAL GAUGE WITH A PRECISION OF 0.001 INCHES.
- THE MAXIMUM LOAD IN A PERFORMANCE TEST SHALL BE HELD FOR 10 MINUTES. THE LOAD-HOLD PERIOD SHALL START AS SOON AS THE MAXIMUM LOAD IS APPLIED AND THE TIEBACK MOVEMENT SHALL BE MEASURED AND RECORDED AT 1 MINUTE, 2, 3, 4, 5, 6, AND 10. IF THE ANCHOR MOVEMENT BETWEEN 1 MINUTE AND IN MINUTES SCEEDES 0.04 INCHES, THE MAXIMUM LOAD SHALL BE HELD FOR AN ADDITIONAL 50 MINUTES. IF THE LOAD HOLD IS EXTENDED. THE ANCHOR MOVEMENT SHALL BE RECORDED AT 15, 20, 30, 40, 50, AND 60 MINUTES. IF AN ANCHOR FAILS IN CREEP, RE-TESTING WILL NOT BE ALLOWED.
- A TIEBACK PERFORMANCE TEST WITH A 10 MINUTE LOAD HOLD IS ACCEPTABLE IF BOTH OF THE FOLLOWING ARE MET:
 - THE TIEBACK CARRIES THE MAXIMUM LOAD WITH LESS THAN 0.04 INCHES OF MOVEMENT BETWEEN 1 AND 10 MINUTES.
 - THE TOTAL MOVEMENT AT THE MAXIMUM LOAD EXCEEDS 80 PERCENT OF THE THEORETICAL ELASTIC ELONGATION OF THE TIEBACK UNBONDED LENGTH.
- IF THE LOAD HOLD IS EXTENDED. THE TEST IS ACCEPTABLE IF THE TIEBACK CARRIES THE MAXIMUM LOAD WITH LESS THAN 0.04 INCHES OF MOVEMENT BETWEEN 6 AND 60 MINUTES AND SATISFIES ITEM c.2. ABOVE.
- LOCK OFF: SUCCESSFULLY TESTED TIEBACKS SHALL BE LOCKED OFF AT LEAST AT THE DESIGN LOAD OR GREATER (UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- ANCHORS SHALL BE STRESSED STRAIGHT AND TRUE. KINKING OR SHARP CURVATURE IN THE ANCHORS UNDER TENSION SHALL BE CAUSE FOR REJECTION.
- TIEBACKS THAT ULTIMATELY FAIL TO MEET THE TESTING CRITERIA MAY BE RETESTED AT A LOWER LOAD AND ASSIGNED A VALUE EQUAL TO THAT LOAD IF THE ENGINEER APPROVES SUCH AN APPROACH. AN ADDITIONAL TIEBACK SHALL BE INSTALLED TO MAKE UP THE LOAD DIFFERENCE. THE LOCATION OF THE ADDITIONAL TIEBACK WILL BE DETERMINED BY THE ENGINEER.
- IF A TIEBACK CONTINUES TO FAIL A LOAD TEST, THE TIEBACK MY BE POST-GROUTED AND RETESTED. IT TIEBACK FAILS AFTER SECOND POST-GROUT, TIEBACK IS REJECTED AND SHALL BE REPLACED.

XIV. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM TESTS AND INSPECTION.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE APPLICABLE CODE. REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED IN THE SPECIFICATIONS.
- REINFORCING STEEL CAST-IN-PLACE CONCRETE POST-INSTALLED ANCHORS REPAIR MORTARS TIEBACKS

MONITORING XV

ESTABLISH CONTROL POINTS ALONG THE EXISTING SEAWALL AS IDENTIFIED IN THE ESI RELIGIO ESI NOL POINTS A LOURS THE EXISTING SEAVALLAS IDENTIFIED IN THE LEURATIONS PRIOR TO STRAT OF EXCAVATION OR CONSTRUCTION OR DEMOLITION. MONITOR ANY MOVEMENT OF SEAVALL DURING TRENCHING, EXCAVATIONS OR DEMOLITION WORK NEAR THE SEAVALL NOTIFY SEAR OF A PAY MOVEMENT EXCEEDING

XVI. DESIGN CRITERIA

- APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE
- 2 GRAVITYLOADS GRAVITY LOADS: A. DEAD LOADS - VARY BASED ON ACTUAL WEIGHTS B. LIVE LOADS: a.' STAIRS: 100 PSF
- SHORING DESIGN PARAMETERS (PER GEOTECH REPORT)
 - TIEBACKS ALLOWABLE SKIN FRICTION: 21 PSI
- DESIGN ASSUMPTIONS REGARDING SHARING OF LOAD BETWEEN NEW AND EXISTING TIEBACKS A. NEW TIEBACKS AT STRAIGHT WALL SEGMENTS ARE DESIGNED TO RESIST 75% OF THE LATERAL SOIL LOADS (WITH THE EXISTING TIEBACKS RESISTING 25%) B. NEW TIEBACKS AT THE CURVED WALL SEGMENT ARE DESIGNED TO RESIST 50% OF THE LATERAL SOIL LOADS (WITH EXISTING TIEBACKS RESISTING 50%).

PROJECT SEQUENCING

- PRIOR TO ALL REPAIR WORK, CONTRACTOR TO A. BRACE WALLAS REQUIRED B. INSTALL ADEQUARE PROTECTION TO PREVENT SEA WATER FROM CONTACTING
- WALL DURING REPAIRS, SET UP MONITORING CONTROL POINTS AS IDENTIFIED. C.

SEQUENCE OF WALL REPAIRS ARE AS FOLLOWS 2.

- DEMOLITION, REPAIR, AND INSTALLATION OF WALL REBAR PER DETAIL 6/S-511. CORE THROUGH (E) WALL AND INSTALL TIEBACK. SHOTCRETE INFILL EXCEPT FOR AREA OF TIEBACK BLOCKOUT PER DETAIL 7/S-541 OR 9/S-541.
- TEST TIEBACKS PER XIII OF GENERAL NOTES.
- INFILL TIE-BACK BLOCKOUT WITH CONCRETE OR NON-SHRINK GROUT CONTRACTOR MAY SUBMIT ALTERNATE SEQUENCE FOR EOR REVIEW.

N 03

SQL	ANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT		ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	=	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF
BY: F	RE CHIEF DATE:	REVIEWED BY: DISTRICT REP. DATE	JTB DRAWN BY	By: JEREMY T. CALLISTER Date: 9/18/2023 NAME: DEGENKOLB ENGINEERS	Description	No. Date	By: By:	Date: Date:		DESCRIPTION: CITY OF SOLANA BEACH SURVEY CONTROL POINT NO. 2001 PER RECORD OF SURVEY MAP NO. 18971. 25° CITY OF SOLANA BEACH BRASS DISK STAMPED SOLB-1.15 7322. 2005 SET ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101, 0.1 MILE SOUTH OF LOMAS SANTA FE DRIVE. ELEVATION; 71.405 FEET (MAVD85)	GENERAL NO 82: DEL M





OF SOLANA BEACH NOTES

ENGINEERING DEPARTMENT

825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075 L MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS PHASE 1

S-002 Sheet 4 of 18

DRAWING NO.

ABBREVIATION	<u>vs</u>	
(E)	EXISTING	FT
#	NUMBER	FTC
&	AND AT	GA
Ø	DIAMETER OR ROUND	GA
لط لط	DEVELOPMENT LENGTH	GL
łdh	HOOK DEVELOPMENT LENGTH	GLI
ls	LAP SPLICE LENGTH	GR
		GR
AA	ADHESIVE ANCHOR	GY
AB	ANCHOR BOLT	
ABV	ABOVE	HD
AC	ASPHALT CONCRETE	HD
ADDL	ADDITIONAL	HK
ADJ	ADJACENT	HO
AGGR	AGGREGATE	HP
ALT	ALTERNATE	HS
ALUM	ALUMINUM	HS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HT
APPROX	APPROXIMATE	
AR	ANCHOR ROD	ID
ARCH	ARCHITECTURAL / ARCHITECT	INF
ASPH	ASPHALT	JH
ASTM AWG	AMERICAN SOCIETY for TESTING and MATERIALS AMERICAN WIRE GAUGE	JST
AWG	AMERICAN WIRE GAUGE	JS
B. O.	BOTTOM OF	01
BF	BOTH FACES	KO
BF	BRACED FRAME	
BLDG	BUILDING	L
BLK, BLKG	BLOCK OR BLOCKING	LE
BLW	BELOW	LLF
BM, BMS	BEAM, BEAMS	LLV
BN	BOUNDARY NAILING	LO
BOF	BOTTOM OF FOOTING	LO
BOT	BOTTOM	LP
BRBF	BUCKLING RESTRAINED BRACE FRAME	LT
BRG	BEARING	LW
BS	BOTH SIDES	
BSMT	BASEMENT	MA
BTWN	BETWEEN BOTH WAYS	ME
BW	BOTHWATS	ME
С	CHANNEL	ME
CIP	CAST IN PLACE	ME
CJ	CONSTRUCTION JOINT	MF
CJP	COMPLETE JOINT PENETRATION	MI
CL	CENTERLINE	MI
CLG	CEILING	MT
CLR	CLEAR	MT
CMU	CONCRETE MASONRY UNIT	
COL	COLUMN	NF
CONC	CONCRETE	NIC
CONN	CONNECTION	NC
CONSTR	CONSTRUCTION	NS
CONT	CONTINUOUS	NT
CSK	COUNTERSINK	NV
CTR	CENTER	
		OB

CONC CONN CONSTR CONT CSK CTR	CONCRETE CONNECTION CONSTRUCTION CONTINUOUS COUNTERSINK CENTER
d DBA DBL DEL DEL DET, DETS DIA, DIAM DIAG DIM, DIMS DIST DK, DKG DN DD DS DSA DSA DSA DWG, DWGS DWL, SWLS	PENNY (NAIL SIZE) DEFORMED BAR ANCHOR DOUBLE DEMOLITION DETAIL, DETAILS DIAMETER DIAGONAL DIMENSION, DIMENSIONS DISTANCE DECK OR DECKING DOWN DITTO DEEP DIAGONAL SHEATHING DIVISION OF THE STATE ARCHITECT DRAWING SPARWINGS DOWEL, DOWELS
EA EBF EJ EL ELEC ELEC ELEC EMBED EN EQ EQUIP ES EQ EQUIP ES EW EXCAV EXCAV EXT	EACH ECCENTRIC BRACE FRAME EACH FACE EXPENSION JOINT ELEVATION ELEOTRICAL ELEOTRICAL ELEOTRICAL EDGE NALING EDGE OF SLAB EQUIPMENT EACH SIDE EACH WAY EXCAVATION EXTERIOR
FDN FF FIN FLG FLR, FLRS	FOUNDATION FAR FACE FINISH FLANGE FLOOR, FLOORS

EA EBF EJ ELEC ELEV EMBE EN EOS EQ EQUII ES EW EXCA EXP EXT FDN FF FIN FLG FLR, F FN FO FOC FOS FP FIELD NAILING FACE OF FACE OF CONCRETE FACE OF STUD FIREPROOF FRMG FS FRAMING FAR SIDE

	FT	FOOT OR FEET
	FTG, FTGS	FOOTING, FOOTINGS
		GAUGE
	GALV	GALVANIZED GLU-LAM
		GLU-LAM BEAM
		GRADE
	GRND	GROUND
	GYP	GYPSUM
		HOT DIPPED GALVANIZED
		HEADER
		HOOK, HOOKS
		HORIZONTAL
		HIGH POINT
	HSB HSS	HIGH STRENGTH BOLTS HOLLOW STRUCTURAL SECTION
E	HT	HEIGHT
-		
	ID	INSIDE DIAMETER/DIMENSION
	INFO	INFORMATION
IALS	JH	JOIST HANGER
		JOIST, JOISTS
	JT	JOINT
	ко	KNOCK-OUT
	KU	KNOCK-OUT
	L	ANGLE
		LEVEL
		LONG LEG HORIZONTAL
	LLV	LONG LEG VERTICAL
		LOCATION
		LONGITUDINAL
		LOW POINT
	LT	LIGHT
	LWC	LIGHTWEIGHT CONCRETE
	MAX	MAXIMUM
		MACHINE BOLT
		MECHANICAL
		MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS
		MEZZANINE
	MF	MOMENT FRAME
	MFR	MANUFACTURER
	MIN	MINIMUM
	MISC	MISCELLANEOUS
	MTD	MOUNTED
	MTL	METAL
	NF	NEAR FACE
	NIC	NOT IN CONTRACT
	NOM	NOMINAL (DIAMETER)
	NS	NEAR SIDE
	NTS	NOT TO SCALE
	NWC	NORMAL WEIGHT CONCRETE
	OBF	ORDINARY BRACED FRAMES
	OC OD	ON CENTER OUTSIDE DIAMETER
	OPH	OPPOSITE HAND
	OPNG	OPENING
	OPP	OPPOSITE
		POST-TENSION
		PIECE, PIECES
	PCC	PRECAST CONCRETE
	PERP PJP	PERPENDICULAR PARTIAL JOINT PENETRATION
	PL	PLATE
	PLYWD	PLYWOOD
	PT	PRESSURE TREATED
	PTN	PARTITION
	R	RADIUS
	REBAR	REINFORCING BAR
	REF	REFERENCE
	REINF	REINFORCING REQUIRED
	REV	REVISION
		,

RFG	ROOFING
RO	ROUGH OPENING
RSJ	ROUGH OPENING ROLLED STEEL JOIST
RSJ	ROLLED STEEL JOIST
S.A.D.	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS
S.M.D.	SEE MECHANIAL DRAWINGS
SCHED	SCHEDULE
SECT	SECTION
SEOR	STRUCTURAL ENGINEER OF RECORD
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLOPE
SMF	SPECIAL MOMENT FRAME
SMS	SHEET METAL SCREW
SOG	SLAB ON GRADE
SP	STRUCTURAL PLYWOOD
SPEC, SPECS	SPECIFICATION, SPECIFICATIONS
SPSW	SPECIAL PLATE SHEAR WALL
SQ	SQUARE
SS	STAINLESS STEEL
STAG	STAGGER or STAGGERED
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP OR STIRRUPS
STL	STEEL STRUCTURAL
SUB	SUBSTITUTE
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE and GROOVE
T.O.	TOP OF
THK	THICK
THRD	THREADED
THRU	THROUGH
TN	TOE NAIL
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TR TYP	TREAD TYPICAL
ITP	TTPICAL
UON	UNI ESS OTHERWISE NOTED
URM	UNREINFORCED MASONRY
VENT	VENTILATE
VERT, (V)	VERTICAL
VIF	VERIFY IN FIELD
W or WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD WP	WOOD WORK POINT
WP	WOOR POINT WOOD SCREW
WS	WOOD SCREW WEIGHT/TEE SECTION
WWW M	WEIGHT/TEE SECTION WELDED WIRE MESH
X HVY	EXTRA HEAVY
X HVY X STR	EXTRA HEAVY EXTRA STRONG
X STR	EXTRA STRONG

REFERENCE SYMBOLS DETAIL/SECTION

DETAIL

2 56.3

SINGLE ELEVATION

GRID LINES

 (A)

LEVEL LINE

WORK POINT

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REVISION

1-

S3.1

1

S3.1

S5.2

PLAN SYMBOLS METAL DECK & FILL SECTION NUMBER DRAWING SHEET NUMBER, HYPHEN INDICATES SAME SHEET -LINE OF SECTION CUT DIRECTION OF VIEW S# -- DETAIL NUMBER DRAWING SHEET NUMBER, HYPHEN INDICATES SAME SHEET CONCRETE FILL LINE OF SECTION CUT DIRECTION OF VIEW AREA OF DETAIL DETAIL PLAN OR ELEVATION AREA OF ENLARGED PLAN OR ENLARGED ELEVATION FLOOR DEPRESSIONS S5.1 DIRECTION OF VIEW - ELEVATION NUMBER DRAWING SHEET NUMBER, HYPHEN INDICATES SAME SHEET SHEAR CONNECTIONS MOMENT CONNECTIONS - INDICATES HEIGHT ABOVE DATUM COLUMNS SURVEY MONITORING POINT

REVISION NUMBER-SEE REVISION HISTORY ON TITLE BLOCK OF EACH SHEET

REINF. BARS

KEY NOTE

SEE LIST OF NOTES ON EACH SHEET CENTER POINT OF CURVE

CURVE TO BE LOCATED - RADIUS OF CURVE ----- CENTER POINT OF CURVE REFERENCED ELEVATION

TOW DESCRIPTION OF REFERENCED EL 98'-0" ELEVATION OF POINT ABOVE DATUM

BAR COUPLERS - MECHANICAL COUPLER SPLICE

BEAM DESIGNATIONS W16X31 [22] (-4 1/2") <3/4">

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I-

H-

1-

IM

0

BEAM PENETRATIONS

SLAB OPENING

0

BEAM-BEAM MOMENT CONNECTION

10"x18" (-8")

TYPE A-1

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SQLANA BEACH FIRE DEPARTMENT SANTA FE IRRIGATION DISTRICT ENGINEER OF WORK CITY APPROVED CHANGES APP'D DATE RECOMMENDED FOR APPROVAL APPROVED FOR CONSTRUCTION BENCH MARK Description No. Date DESCRIPTION. CITY OF SOLANA BEACH SURVEY CONTROL POINT NO 2001 PER RECORD OF SURVEY MAP NO. 18971, 25° CITY OF SOLANA BEACH BRASS DISK STAWAPE SOLEH, LS 7322, 2005° SET ON CONCRETE DRAINAGE INLET ON THE LBAST SHOULDER OF HIGHWAY 101, 01 MILE SOUTH OF LOMAS SANTA FE DRIVE. REVIEWED BY By: JEREMY T. CALLISTER Date: 9/18/2023 _ Date LH NAME: DEGENKOLB ENGINEERS +FIRE CHIEF DATE: DISTRICT REP. DATE DRAWN BY R.C.E. S5646 EXP: Date: ELEVATION: 71.450 FEET (NAVD88)

	MATERIAL SYMBOLS
DRIENTATION OF METAL DECK	EARTH, UNDISTURBED
CONCRETE FILL	EARTH, COMPACTED
EXTENT TO EDGE OF SLAB OR WALL, TYP.	ROCK FILL OR GRAVEL
SLAB TYPE, SEE SHEET NOTES FOR DETAIL REFERENCE	GROUT OR SAND
	CONCRETE (NEW)
SINGLE ARROW INDICATES EDGE OF DECK	
CONCRETE SLAB OR WALL	PRECAST CONCRETE
EXTENT TO EDGE OF SLAB DR WALL, TYP.	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
SINGLE ARROW INDICATES	CONCRETE, ELEVATED OR DEPRESSED
EDGE OF CONCRETE	MASONRY (BRICK / CMU)
	PLYWOOD
DEPTH OF DEPRESSION OR STEP IN SLAB	GLB
EXTENT OF DEPRESSION IN SLAB, S.A.D. FOR DIMENSIONS	DEMO

TYPICAL SHEAR CONNECTION

MOMENT RESISTING BEAM-COLUMN CONNECTION SEE DETAILS

WIDE-FLANGE COLUMN, SEE COLUMN SCHEDULE

TUBE COLUMN, SEE COLUMN SCHEDULE

BEAM TO BEAM MOMENT CONNECTION PER DETAILS

VERT x HORIZ WEB OPENING

CENTERLINE OF OPENING TO TOP OF STEEL

- WEB OPENING TYPE, SEE DETAILS

LIMITS OF SLAB OPENING

BRACED FRAME OR DIAGONAL BRACE - BRACE ABOVE

BRACE BELOW

- BEAM SIZE INDICATES NO. SHEAR STUDS

INDICATES BEAM CAMBER TOP OF STEEL RELATIVE TO REFERENCE ELEVATION



Date: 9/18/2023



Sheet 5 of 17

CITY OF SOLANA BEACH SYMBOLS AND ABBREVIATIONS

ENGINEERING DEPARTMENT

DRAWING NO. S-003

825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075 DEL MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS PHASE 1





EROSION & SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SOLANA BEACH STORM WATER STANDARDS MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMPS.

2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.

3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00 FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT FROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.

4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.

5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.

6. THE CONTRACTOR SHALL REMOVE SILT DEBRIS AFTER EACH MAJOR RAINFALL

7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON, ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

13, ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.

14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

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<u>IP'S</u>								
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RAINAGES, WELL NT VEGETATION								
ATURAL DRAINAGES								
PERVIOUS SURFACES								
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AS-BUILT				21		No. C 16 No. GE 51	4599 [[]]	
Y:D	ATE:			2"	3"	DIP. 06-3	3-25 (¥) 27.★	ł
C E .:E	XP:	ORIGINA	L DRAWING	MEASURE	``	THE OF CAL	FOR T	_
TY OF SOLAN	IA BEACH		ENGIN	EERING DEPA	RTMENT	DRAWI	NG REF C-102	NO
ISION CONTROL PLAN I 825 SOUTH SI	FOR: IERRA AVENUE	, SOLANA E	BEACH, C	A 92075		SBGR	-	
	AND UPPER BL					Sheet	7 of	18



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CONCRETE REPAIR NOTES

REPAIR CRITERIA

THE CRACKS AND SPALLS IDENTIFIED IN THESE DRAWINGS REPRESENT THE MAJORITY OF THE SIGNIFICANT CRACKS/SPALLS OBSERVED; HOWEVER; IT IS NOT MEANT TO BE A COMPRETENSIVE AND COMPLETE PORTRAYAL OF ITEMS REQUIRING MITIGATION. IN ADDITION, THEIR LENGTH & LOCATION ARE APPROXIMATE IN NATURE.

MATERIALS AND PRODUCTS

- 1. BONDING AGENTS:
- A. EPOXY-MODIFIED, CEMENTITIOUS BONDING AND ANTICORROSION AGENT: MANUFACTURED PRODUCT THAT CONSISTS OF WATER-INSENSITIVE EPOXY ADHESIVE, PORTLAND CEMENT, AND WATER-BASED SOLUTION OF CORROSION-INHIBITING CHEMICALS THAT FORMS A PROTECTIVE FILM ON STEEL REINFORCEMENT. ACCEPTABLE PRODUCTS INCLUDE:
- a. EUCLID CHEMICAL COMPANY: DURALPREP A.C.
- b. SIKA CORPORATION; ARMATEC 110 EPOCEM.
- MORTAR SCRUB COAT: MIX CONSISTING OF 1 PART PORTLAND CEMENT AND 1 PART FINE AGGREGATE COMPLYING WITH ASTM C 144 EXCEPT 100 PERCENT PASSING A NO. 16 (1.18-MM) SIEVE.
- 3. PATCHING MORTAR:
- A GENERAL
- a. ONLY USE PATCHING MORTARS THAT ARE RECOMMENDED BY MANUFACTURER FOR EACH APPLICABLE HORIZONTAL, VERTICAL, OR OVERHEAD USE ORIENTATION.
- b. COARSE AGGREGATE FOR PATCHING MORTAR: ASTM C 33, WASHED AGGREGATE, SIZE NO. 8, CLASS 5S, ADD TO PATCHING-MORTAR MIX ONLY AS PERMITTED BY PATCHING-MORTAR MANUFACTURER.
- B. CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX FOR REPAIR OF CONCRETE
- a. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING
- BASE CONSTRUCTION CHEMICALS BUILDING SYSTEMS
 - DAYTON SUPERIOR CORPORATION
- EUCLID CHEMICAL COMPANY SIKA CORPORATION; CONSTRUCTION PRODUCT DIVISION
- a. COMPRESSIVE STRENGTH: NOT LESS THAN 5000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M
- C. POLYMER-MODIFIED, CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX FOR REPAIR OF CONCRETE AND THAT CONTAINS A NON-REDISPERSIBLE LATEX ADDITIVE AS EITHER A DRY POWDER OR A SEPARATE LIQUID THAT IS ADDED DURING MIXING.
- a. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING: BASF CONSTRUCTION CHEMICALS BUILDING SYSTEMS DATTON SUPERIOR CORPORATION
- EUCLID CHEMICAL COMPANY SIKA CORPORATION: CONSTRUCTION PRODUCT DIVISION
- a. COMPRESSIVE STRENGTH: NOT LESS THAN 5000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C
- 4. EPOXY CRACK INJECTION MATERIALS
- A. EPOXY CRACK-INJECTION ADHESIVE: ASTM C 881/C 881M, TYPE IV AT STRUCTURAL LOCATIONS AND WHERE NOT INDICATED
- B. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
- a. EUCLID CHEMICAL COMPANY
- b. SIKA CORPORATION: CONSTRUCTION PRODUCT DIVISION
- c. SIMPSON STRONG TIE. INC
- A. CAPPING ADHESIVE: PRODUCT MANUFACTURED FOR USE WITH CRACK INJECTION ADHESIVE BY SAME MANUFACTURER
- SURFACE PREPARATION FOR PATCH LOCATIONS (WHERE CORROSION NOT OBSERVED
- 1 LOCATION AND MARKING OF WORK
- A. WITHIN THE REGIONS IDENTIFIED IN THE ELEVATIONS, CONTRACTOR TO LOCATE SPALLS DELAMINATIONS HONEYCOMBS, ROCK POCKETS, AND VOIDS MORE THAN 1 INCH IN ANY DIMENSION TO SOLID CONCRETE BY VISUAL INSPECTION AND CONCRETE SOUNDING AND MARK THEIR BOUNDARIES WITH CHALK OR PAINT.
- B. AREAS TO BE REMOVED SHALL BE AS STRAIGHT AND RECTANGULAR AS PRACTICAL TO ENCOMPASS THE REPAIR AND PROVIDE A NEAT PATCH.
- C. CONTRACTOR TO LOCATE ALL EMBEDDED POST-TENSIONING TENDONS AND REINFORCEMENT IN THE REPAIR AREA AND MARK THESE LOCATIONS FOR REFERENCE DURING THE CONCRETE REMOVAL IN CONCRETE SLAB.
- 2. CONCRETE REMOVAL

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- A. FOR VERTICAL AND OVERHEAD SURFACES THE MARKED BOUNDARY MAY BE SAWCUT TO A DEPTH OF 1/4 INCH INTO T EXISTING CONCRETE, MEASURED FROM THE ORIGINAL SURFACE, EXTRA CAUTION SHALL BE EXERCISED DURING THE SAWCUTTING OPERATIONS TO AVOID DAMAGNIG EXISTING REINFORCEMENT.
- B. ALL CONCRETE SHALL BE REMOVED FROM WITHIN THE MARKED BOUNDARY TO A MINIMUM DEPTH OF 1/2 INCH USING CHIPPING HAMMERS LESS THAN 15 LBS AT SLABS AND LESS THAN 30 LBS AT COLUMNS AND WALLS. IF UNSOUND CONCRETE EXISTS BEYOND THE MINIMUM REMOVAL DEPTH, THEN CHIPPING SHALL CONTINUE UNTIL ALL UNSOUND CONCRETE HAS BEEN REMOVED FROM THE CAVITY.
- C. WHERE EMBEDDED REINFORCEMENT IS EXPOSED BY CONCRETE REMOVAL, EXTRA CAUTION SHALL BE EXERCISED TO AVOID DAMAGING IT DURING REMOVAL OF ADDITIONAL UNSOUND CONCRETE. IF BOND BETWEEN EXPOSED EMBEDDED REINFORCEMENT AND ADJACENT CONCRETE IS IMPAIRED BY THE CONTRACTOR'S REMOVAL OPERATIONS, THEN THE CONTRACTOR SHALL PERFORM ADDITIONAL REMOVAL AROUND AND BEYOND THE PERIMETER OF THE REINFORCEMENT FOR A MINIMUM OF 3/4 INCH ALONG THE ENTIRE LENGTH AFFECTED.
- 3. PREPARATION OF CAVITY FOR PATCH PLACEMENT
- A. THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST AND DEBRIS. VERIFY FRACTURED PROFILE OF AT LEAST 1/8 INCH OCCURS AT PATCH LOCATION.
- B. PERFORM ADDITIONAL PREPARATION AND CLEANING OF THE SPALL CAVITY AS REQUIRED BY THE PATCHING MATERIAL MANUFACTURER. NOTIFY ENGINEER OF COMPLETION OF PREPERATION OF CAVITY.

SURFACE PREPARATION FOR PATCH LOCATIONS (WHERE CORROSION IS OBSERVED)

- 1. LOCATION AND MARKING OF WORK
- A. CONTRACTOR TO LOCATE SPALLS AND DELAMINATIONS BY VISUAL INSPECTION AND CONCRETE SOUNDING AND MARK THEIR BOUNDARIES WITH CHALK OR PAINT.
- B. AREAS TO BE REMOVED SHALL BE AS STRAIGHT AND RECTANGULAR AS PRACTICAL TO ENCOMPASS THE REPAIR AND
- C. CONTRACTOR TO LOCATE ALL EMBEDDED POST-TENSIONING TENDONS AND REINFORCEMENT IN THE REPAIR AREA AND MARK THESE LOCATIONS FOR REFERENCE DURING THE CONCRETE REMOVAL IN CONCRETE SLAB.
- 2. CONCRETE REMOVAL
 - A. DELAMINATED. SPALLED, AND UNSOUND CONCRETE FLOOR AREAS SHALL HAVE THEIR MARKED BOUNDARIES SAWCUT TO A DELAMINATED, SPALLED, AND UNSOUND CONVERTE FLOOR ANEAS SPALE HAVE THEIM MARKED BOUNDARIES SAWUUT TO A DETHI OF 14 INCH INTO THE FLOOR SLAB, UNLESS OTHERWISE NOTED. FOR VERTICAL AND OVERHEAD SURFACES THE MARKED BOUNDARY MAY BE SAWUUT, GROUND OR CHIPPED TO A DEPTH OF 14 INCH INTO EXISTING CONCRETE, MEASURED FROM THE ORIGINAL SURFACE EXTRA CAUTION SHALL BE EXERCISED DURING THE SAWUUTTING OPERATIONS TO AVOID DAMAGING EXISTING REINFORCEMENT (ESPECIALLY POST-TENSIONING TENDONS AND SHEATHS).
 - B. ALL CONCRETE SHALL BE REMOVED FROM WITHIN THE MARKED BOUNDARY TO A MINIMUM DEPTH OF 1/2 INCH USING CHIPPING HAMMERS LESS THAN 15 LBS AT SLABS AND LESS THAN 30 LBS AT COLUMNS AND WALLS. IF UNSOUND CONCRETE EXISTS BEYOND THE MINIMUM REMOVAL DEPTH, THEN CHIPPING SHALL CONTINUE UNTIL ALL UNSOUND CONCRETE HAS BEEN REMOVED FROM THE CAVITY.
- C. WHERE EMBEDDED REINFORCEMENT IS EXPOSED BY CONCRETE REMOVAL, EXTRA CAUTION SHALL BE EXERCISED TO AVOID DAMAGING IT DURING REMOVAL OF ADDITIONAL UNSOUND CONCRETE. IF BOND BETWEEN EXPOSED EMBEDDED REINFORCEMENT AND ADJACENT CONCRETE IS IMPARED BY THE CONTRACTOR'S REMOVAL OFERATIONS, THEN THE CONTRACTOR SHALL PERFORM ADDITIONAL REMOVAL AROUND AND BEYOND THE PERIMETER OF THE REINFORCEMENT FOR A MINIMUM OF 34 IN ICH ALDNG THE ENTIRE LENGTH AFFECTED.
- D. IF RUST IS PRESENT ON EMBEDDED REINFORCEMENT WHERE IT ENTERS SOUND CONCRETE. THEN ADDITIONAL REMOVAL OF CONCRETE ALONG AND BENEATH THE REINFORCEMENT WILL BE REQUIRED. SUCH ADDITITIONL REMOVAL SHALL CONTINUE UNTIL NONRUSTED REINFORCMENT IS EXPOSED, OR AS DIRECTED BY THE ENGINEER.
- 3. REINFORCEMENT IN REPAIR AREA
 - A. ALL EMBEDDED REINFORCEMENT EXPOSED DURING SURFACE PREPARATION THAT HAS LOST MORE THAN 20% OF THE ORIGINAL CROSS-SECTIONAL AREA DUE TO CORROSION SHALL BE CONSIDERED DEFECTIVE, AND WILL REQUIRE REMOVAL AND REPLACEMENT. CONTRACTOR TO NOTIFY EMBILIER OF THESE CONDITIONS.
 - B. CONCRETE SHALL BE REMOVED TO PROVIDE A MINIMUM OF 3/4 INCH CLEARANCE ON ALL SIDES OF DEFECTIVE OR CONCIREE STALL BE REMOVED TO PROVIDE A MINIMUM OF SAFINGH CLEARANCE ON ALL SIDES OF DEFECTIVE OR DAMAGED EXPOSED EMBEDDE REINFORCEMENT THAT IS LEFT IN PLACE. A MINIMUM OF 1 1/2 INCH CONCRETE COVER SHALL BE PROVIDED OVER ALL NEW AND EXISTING REINFORCEMENT. CONCRETE COVER OVER REINFORCEMENT MAY BE REDUCED TO 31 INCH WITH THE EMSINEERS APPROVAL IF COATED WITH AN APPROVED EPOXY RESIN.
- 4. CLEANING OF REINFORCING
- A. ALL EXPOSED STEEL SHALL BE CLEANED OF RUST TO BARE METAL BY SANDBLASTING OR WIRE BRUSHING. 5. PREPARATION OF CAVITY FOR PATCH PLACEMENT
- A. THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST AND DEBRIS. VERIFY FRACTURED PROFILE OF AT LEAST 1/8 INCH OCCURS AT PATCH LOCATION.
- B. PERFORM ADDITIONAL PREPARATION AND CLEANING OF THE SPALL CAVITY AS REQUIRED BY THE PATCHING MATERIAL MANUFACTURER.
- C. COAT REBAR AND CAVITY WITH SIKA ARMATEC 110 PER MANUFACTURER RECOMMENDATIONS.

APPLICATION OF PATCH MATERIALS

- APPLICATION OF PATCHING MORTAR: PLACE AS FOLLOWS UNLESS OTHERWISE RECOMMENDED IN WRTING BY MANUFACTURER: BASIS OF DESIGN FOR SHALLOW SURFACE REPAIRS IS SIKATOP 122 PLUS.
- A. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE
- B. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER
- C. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.
- D. GENERAL PLACEMENT: PLACE PATCHING MORTAR BY TROWELING TOWARD EDGES OF PATCH TO FORCE INTIMATE CONTACT WITH EDGE SURFACES. FOR LARGE PATCHES, FILL EDGES FIRST AND THEN WORK TOWARD CENTER, ALWAYS TROWELING TOWARD EDGES OF PATCH. AT FULLY EVPOSED REINFORCING BARS, FORCE PATCHING MORTAR TO FILL SPACE BEHIND BARS BY COMPACTING WITH TROWEL FROM SIDES OF BARS.
- E. VERTICAL PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 1-1/2 INCHES NOR LESS THAN 1/8 INCH. DO NOT FEATHER EDGE.
- F. OVERHEAD PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 1-1/2 INCHES NOR LESS THAN 1/8 INCH. DO NOT FEATHER EDGE.
- G. CONSOLIDATION: AFTER EACH LIFT IS PLACED, CONSOLIDATE MATERIAL AND SCREED SURFACE.
- H. FINISHING: ALLOW SURFACES OF LIFTS THAT ARE TO REMAIN EXPOSED TO BECOME FIRM AND THEN FINISH TO A SURFACE MATCHING ADJACENT CONCRETE
- CURING: WET-CURE CEMENTITIOUS PATCHING MATERIALS, INCLUDING POLYMER-MODIFIED CEMENTITIOUS PATCHING MATERIALS, FOR NOT LESS THAN SEVEN DAYS BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER. ALTERNATIVELY, USE CURING COMPOUND APPROVED BY THE EOR AND REPAR MORTARIGROUT MANUFACTURER.

2. APPLICATION OF DRY PACK MORTAR: USE FOR DEEP CAVITIES AND WHERE INDICATED. PLACE AS FOLLOWS UNLESS OTHERWISE RECOMMENDED IN WRITING BY MANUFACTURER.

- A. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE.
- B. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER.
- C. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.
- D. PLACE DRY-PACK MORTAR INTO CAVITY BY HAND, AND COMPACT TIGHTLY INTO PLACE. DO NOT PLACE MORE MATERIAL AT A TIME THAN CAN BE PROPERLY COMPACTED. CONTINUE PLACING AND COMPACTING UNTIL PATCH IS APPROXIMATELY LEVEL WITH SURROUNDING SURFACE.
- AFTER CAVITY IS FILLED AND PATCH IS COMPACTED, TROWEL SURFACE TO MATCH PROFILE AND FINISH OF SURROUNDING CONCRETE. A THIN COAT OF PATCHING MORTAR MAY BE TROWELED INTO THE SURFACE OF PATCH TO HELP OBTAIN REQUIRED FINISH.
- F. WET-CURE PATCH FOR NOT LESS THAN SEVEN DAYS BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER. ALTERNATIVELY, USE CURING COMPOUND APPROVED BY THE EOR AND REPAIR MORTAR/GROUT MANUFACTURER.
- 3. PLACEMENT OF CONCRETE PATCH: BASIS OF DESIGN FOR FORM AND POUR REPAIRS IS SIKACRETE 211 SCC PLUS
- A. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.
- B. STANDARD PLACEMEN
 - a. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE
 - b. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER
 - c. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.
 - d. PLACE MATERIAL PER MANUFACTURER'S RECOMMENDATIONS

C. WET-CURE CONCRETE FOR NOT LESS THAN SEVEN DAYS BY LEAVING FORMS IN PLACE OR KEEPING SURFACES CONTINUOUSLY WET BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER. ALTERNATIVELY, USE CURING COMPOUND APPROVED BY THE EOR AND REPAIR MORTAR/GROUT MANUFACTURER.

D. FILL PLACEMENT CAVITIES WITH DRY-PACK MORTAR AND REPAIR VOIDS WITH PATCHING MORTAR. FINISH TO MATCH SURROUNDING CONCRETE.

SQLANA BEACH FIRE DEPARTMENT SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF
BY:	LH NAME: DEGENKOLB ENGINEERS DRAWN BY R.C.E. \$5546 EXP:	Description	No. Date B	y: Date: y: Date:	_ By: Date:	DESCRIPTION: CITY OF SOLANA BEACH SURVEY CONTROL POINT NO. 2001 PER RECORD OF SURVEY MAP NO. 18971. 25° CITY OF SOLANA BEACH BRASS DISK STAMPED 'SOLB1. LS 722, 2005' SET ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101, 0.1 MILE SOUTH OF LONGE SANTA FE DRIVE. ELEVATION: 71.450 FEET (INAVD88)	CONCRETE I 82 DEL I

EPOXY CRACK INJECTION

- 1. EPOXY CRACK INJECTION: BASIS OF DESIGN IS SIKADUR 35

- E. AFTER EPOXY ADHESIVE HAS SET, REMOVE INJECTION PORTS AND GRIND SURFACES SMOOTH

FIELD QUALITY CONTROL

PROJECT SEQUENCING

1. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:

3. PREPARE TEST AND INSPECTION REPORTS.

B. JOB-MIXED PATCHING MORTAR: 2 RANDOMLY SELECTED SETS OF SAMPLES FOR EACH TYPE OF MORTAR REQUIRED, TESTED FOR COMPRESSIVE STRENGTH ACCORDING TO ASTM C 109/C 109M. 2. PRODUCT WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

A. CLEAN AREAS TO RECEIVE CAPPING ADHESIVE OF OIL, DIRT, AND OTHER SUBSTANCES THAT WOULD INTERFERE WITH BOND, AND CLEAN CRACKS WITH OIL-FREE COMPRESSED AIR OR LOW-PRESSURE WATER TO REMOVE LOOSE PARTICLES. B. PLACE INJECTION PORTS AS RECOMMENDED BY EPOXY MANUFACTURER, SPACING NO FARTHER APART THAN THICKNESS OF MEMBER BEING INJECTED. SEAL INJECTION PORTS IN PLACE WITH CAPPING ADHESIVE.

C. SEAL CRACKS AT EXPOSED SURFACES WITH A RIBBON OF CAPPING ADHESIVE AT LEAST 1/4 INCH (6 MM) THICK BY 1 INCH (25 MM) WIDER THAN CRACK.

D. INJECT EPOXY ADHESIVE, BEGINNING AT WIDEST PART OF CRACK AND WORKING TOWARD NARROWER PARTS. INJECT ADHESIVE INTO PORTS TO REFUSAL, CAPPING ADJACENT PORTS WHEN THEY EXTRUDE EPOXY. CAP INJECTED PORTS AND INJECT THROUGH ADJACENT PORTS UNTIL CRACK IS FILLED.

A. PACKAGED, CEMENTITIOUS PATCHING MORTAR: 2 RANDOMLY SELECTED SETS OF SAMPLES FOR EACH TYPE OF MORTAR REQUIRED, TESTED ACCORDING TO ASTM C 928.

SEE SECTION XVII OF GENERAL NOTES ON S-002 FOR CONCRETE REPAIR AND TIEBACK INSTALLATION WORK SEQUENCING





OF SOLANA BEACH ENGINEERING DEPARTMENT TE REPAIR GENERAL NOTES 825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075 EL MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS PHASE 1

S-501 Sheet 10 of 18

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DEL		ALL AND UPPER BLUFF REPAIRS ASE 1	Sheet 11 of 18



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			DEGENKOLB ENGINEERS 225 Broadway, Suite 1325	EGIST	R No. S 5846	
			San Diego, CA 92101 619.515.0299 PHONE		ung (allerty)	
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CS:	SQLANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	E	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY O
SΓ		REVIEWED BY:		Description	No. Date	-				
Autodesk D	BY:	DISTRICT REP. DATE:	LH NAME_DEGENKOLB ENGINEERS DRAWN BY R.C.E. \$5546 EXP:			By:	Date: Date:	By: Date;	DESCRIPTION: CITY OF SOLANA BEACH SURVEY CONTROL POINT NO. 2001 PER RECORD OF SURVEY MAP NO. 1897.13 CITY OF SOLANA BEACH BRASS DISK STAMPED 'SOLB-1, LS 7322, 2005' SET ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101,0.1 MILE SOUTH OF LOMAS SANTA FE DRIVE. ELEVATION; 7.450 FEET (NAVBB)	UPPER BLUI 8 DEL



	TIEBACK PER	RFORMANCE TEST		
LOAD	RECORD TOTAL MOVEMENT	RECORD RESIDUAL MOVEMENT	LOAD HOLD TIME	
AL	Х		N/A	
0.25 DL	Х		LESS THAN 1 MINUTE	
AL		Х	N/A	
0.25 DL	Х		< 1 MIN.	
0.50 DL	Х		< 1 MIN.	
AL		Х	N/A	
0.25 DL	Х		< 1 MIN.	
0.50 DL	Х		< 1 MIN.	
0.75 DL	Х		< 1 MIN.	
AL		Х	N/A	
0.25 DL	Х		N/A	
0.50 DL	Х		N/A	
0.75 DL	Х		N/A	
1.00 DL	Х		10 MINUTES	
AL		Х	N/A	
0.25 DL	Х		< 1 MIN.	104 ^m
0.50 DL	Х		< 1 MIN.	
0.75 DL	Х		< 1 MIN.	
1.00 DL	Х		< 1 MIN.	
1.25 DL	X		10 MINUTES	
' AL	10.5	· X	N/A	•
0.25 DL	Х		< 1 MIN.	and the second se
0.50 DL	Х		< 1 MIN.	
0.75 DL	Х	Strade Strate Proved	< 1 MIN.	
1.00 DL	Х		< 1 MIN.	NOTES:
50 DL = TEST LOAD	Х	The second s	10 MINUTES	1. SEE GENERAL NOTES FOR CORROSION PROTECTIO

AL = ALIGNMENT LOAD, DL = DESIGN LOAD = LOCK LOAD SEE GENERAL NOTES FOR TESTING PROCEDURES.

10 TIEBACK PERFORMANCE TEST

TIEBAC	K PROOF TEST
LOAD	LOAD HOLD TIME
AL	N/A
0.25 DL	N/A
0.50 DL	N/A
0.75 DL	N/A
1.00 DL	N/A
1.25 DL	N/A
1.33 DL	10 MINUTES

 NOTES:

 1.
 AL = ALIGNMENT LOAD, DL = DESIGN LOAD = LOCK LOAD

 2.
 SEE GENERAL NOTES FOR TESTING PROCEDURES.

11) TIEBACK PROOF TEST

MARK	VERT. ANGLE [DEGREE]	# OF 0.6" Ø STRANDS ³	ROD Ø [INCH] ³	LOCK LOAD (DESIGN LOAD) [KIP]	PROOF TEST LOAD [KIP]	UNBONDED LENGTH [FEET]	BONDED LENGTH [FEET] ⁴	TOTAL LENGTH [FEET] ⁴
А	10	3	1-5/8	123.2	164	30	20	50
в	15	3	1-5/8	126.4	168	30	20	50
С	20	3	1-5/8	131.1	174	30	21	51
D	25	3	1-5/8	137.4	183	30	22	52
E	30	4	1-5/8	145.7	194	30	23	53
F	10	4	1-3/4	166.0	221	30	27	57
G	15	4	1-3/4	172.4	229	30	28	58
н	20	4	1-3/4	181.7	242	30	29	59
I	25	5	1-3/4	194.3	258	30	31	61
J	30	5	1-7/8	210.8	280	30	34	64

TABLE NOTES:

SEE SEAWALL PLANS ON S-101 AND S-102 FOR TIEBACK MARK.

- SEE DETAILS 7/- AND 9/- FOR TIEBACK DETAILS. TIEBACKS DRILLED HOLES SHALL BE 8"Ø MIN. 2
- SUBSTITUTION OF STRAND FOR ROD IS ACCEPTABLE FOR TIEBACKS. CONTRACTOR SHALL SELECT STRAND APPROPRIATE TO ACHIEVE THE DESIGN LOADS AND TEST LOADS REQUIRED. SEE GENERAL NOTES FOR MORE INFORMATION.
- TIEBACK BONDED LENGTH AND TOTAL LENGTH VALUES ARE BASED ON ESTIMATED GEOTECHNICAL PARAMETERS. THESE LENGTHS REPRESENT THE MAXIMUM LENGTHS TO WHICH THE TIEBACKS HAVE BEEN COORDINATED FOR CONFLICTS WITH OTHER TIEBACKS AND EXISTING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TIEBACK LENGTHS THAT WILL ACHIEVE THE REQUIRED DESIGN AND TEST LOADS. SEE GENERAL NOTES.
- SEE GENERAL NOTES FOR TIEBACK INSTALLATION AND TESTING REQUIREMENTS.
- SEE DETAILS 10/- AND 11/- FOR TIEBACK PERFORMANCE AND PROOF TESTS REQUIREMENTS.
- NEW TIEBACKS AT STRAIGHT WALL SEGMENTS ARE DESIGNED TO RESIST 75% OF THE LATERAL SOIL LOADS (WITH THE EXISTING TIE-BACKS RESISTING 25%). AT THE CURVED PORTION OF THE WALLS, THE NEW TIEBACKS ARE DESIGNED TO RESIST 50% OF THE LATERAL SOIL LOADS (WITH EXISTING TIEBACKS RESISTING 50%).

12 TIEBACK SCHEDULE

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9 STRAND TIEBACK AT SEAWALL

NOTES:

\bigcirc		1 1/2" = 1'-0)"					Date:9/18/2023
SOLANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH
BY:	REVIEWED BY:	JEL By: JEREMY T. CALLISTER Date: 9/18/2023 JAME: DEGENKOLB ENGINEERS R.C.E. \$5646 EXP:	Description	No. Date	By: Date: By: Date:	By:Date:	DESCRIPTION, OTVOE SOLANA REACT SUBVEY CONTROL POINT NO	TIEBACK DETAILS 825 SOUTH SIERRA AVENUE, SOLANA BEAK DEL MAR BEACH CLUB SEAWALL AND UPPER PHASE 1

1. SEE GENERAL NOTES FOR CORROSION PROTECTION, INSTALLATION, AND TESTING REQUIREMENTS. 2. SEE 127-FOR TIEBACK SCHEDULE 3. (E) REBAR SHALL NOT BE DAMAGED AT CORE LOCATIOINS

Antonin the same

SER NOTE GROUT TUBES BONDED L 1 SEE NOTE 2 ----TERMINATE GROUT 6" MIN. FROM BACK OF CONC. SHAFT CORRUGATED PE -OR PVC DUCT GREASED STRAND OVER UNBONDED LENGTH (E) REINF. DO NOT CUT ---BARS UNLESS DIRECTED BY STRUCTURAL ENGINEER GRIT IMPREGNATED STRAND FILL VOID W/ GROUT OR SHOTCRETE AFTER STRESSING CENTRALIZING SPACES PROVIDE 1/2" OF GROUT COVER

LOCATIOINS

- 7 ROD TIEBACK AT SEAWALL



1'-3"

(E) CONCRETE SEAWALL PER S-511

SMOOTH PVC OR HDPE SHEATHING

SEE NOTE

FIELD INSTALLED GROUT

2 LAYERS OF DENSO TAPE

THREADED STRESSING ROD. SEE NOTE 2

PVC HOLE CENTRALIZER

(E) REINF. DO NOT CUT BARS UNLESS DIRECTED BY STRUCTURAL ENGINEER - FACE OF CONCRETE WALL AFTER DEMO (SEE S-511) FACE OF (E) CONCRETE SEAWALL - EXTENT OF STRUCTURAL SHOTCRETE INFILL COSMETIC SHOTCRETE

- HDG BEARING PLATE 2 1/4" X 18" X 18", 50 KSI PROVIDE 2" GROUT PAD FOR UNIFORM BEARING

BLOCKOUT, FILL W/ NON-SHRINK GROUT & PROVIDE PERIMETER WATERSTOP

ANCHOR HEAD (BY OTHERS) HEAVY DUTY HEX NUT HARDENED WASHER HDG, 2" x 6" x 6" TOP BEARING PLATE, 50 KSI

5" XXS STEEL PIPE, HDG

5/16

DBL #6 x 4'-0" LONG. TRIM BARS ON ALL 4 SIDES OF BLOCKOUT

9" MAX CORE THROUGH CONCRETE WALL (SEE NOTE 3)

(N) WALL REBAR PER S-511. HOOK VERT REINF BARS WHEN INTERSECTING WITH BLOCKOUT

COSMETIC SHOTCRETE

FACE OF CONCRETE WALL AFTER DEMO (SEE S-511)

FACE OF (E) CONCRETE SEAWALL

EXTENT OF STRUCTURAL SHOTCRETE INFILL EXTENT OF COSMETIC SHOTCRETE

HDG BEARING PLATE 2 1/4" × 18"x18", 50 KSI. PROVIDE 2" GROUT PAD FOR UNIFORM BEARING

BLOCK OUT, FILL W/ NON-SHRINK GROUT & PROVIDE PERIMETER WATERSTOP

ANCHOR HEAD

5/16

5" XXS STEEL PIPE, HDG

DBL #6 x 4'-0" LONG TRIM BARS ON ALL (4) SIDES OF BLOCKOUT

(N) WALL REBAR PER WALL SECTIONS. HOOK VERT REINF BARS WHEN INTERSECTING WITH ANCHOR BLOCKOUT

9" MAX CORE THROUGH (E) WALL (SEE NOTE 3)



ENGINEERING DEPARTMENT



BEACH, CA 92075 PER BLUFF REPAIRS

S-541 Sheet 18 of 18

DRAWING NO.

September 18, 2023

Mr. Terry Himes Del Mar Beach Club HOA c/o Robert Trettin 825 S. Sierra Avenue Solana Beach, California 92075

Reference: Del Mar Beach Club – Phase I Seawall & Upper Bluff Repair 825 S. Sierra Avenue Solana Beach, California

Dear Mr. Hines:

In response to your request, we have reviewed the "Grading & Improvement Plans for: Del Mar Beach Club – Phase I Seawall & Upper Bluff Repair", prepared by Degenkolb Engineers. Based on our review, the plans and structural calculations have been prepared in general accordance, from a geotechnical perspective, with the recommendations included in our geotechnical report.

Following completion of tie-back exposure and testing, and having documented that the existing tiebacks have little to no retention capacity, it is our opinion that failure of segments of the seawall could occur at any time. Such failure would likely result in significant up-slope failure that would ultimately impact the southwestern condominium building. Therefore, we recommend that this project be addressed an emergency.

This opportunity to be of service is sincerely appreciated. If you have any questions, please call this office.

Respectfully submitted, SOIL ENGINEERING CONSTRUCTION, INC.

W. Niven, P.E.



Robert Mahony, G.E., C.E.G.



Attachments: Appendix A – References 927 Arguello Street, Redwood City, California 94063 (760) 633-3470 // (650) 367-9595

APPENDIX A

- 1) California Coastal Commission, Staff Report, 341, 347, and 355 Pacific Avenue, Solana Beach, September 25, 2013.
- 2) California Coastal Records Project, Aerial Images, 1972, 1979, 1987, 1989, 2002, 2004, 2006, 2008, 2010, and 2013.
- 3) Continental Aerial Photo, Stereo-pair Aerial Photos, Flights 12-10-1969, 4-16-1972, 12-13-1978, 12-17-1979, 04-08-1980, 01-14-1988, 10-30-1993, 08-12-1998.
- 4) Google Earth, Aerial Images, 05-31-1994,12-31-2002, 06-29-2004, 01-03-2006, 02-29-2008, 08-23-2010, 11-2-2012, 05-11-2014, 04-14-2015.
- 5) Group Delta, Shoreline Erosion Study, North Solana Beach, California, August 20, 1998.
- 6) Group Delta, Geotechnical Investigation, Coastal Bluff at Southwest Property Corner, Del Mar Beach Club, Solana Beach, California, dated March 3, 1999.
- 7) Kennedy and Tan, Geologic Map of the San Diego 30' x 60' Quadrangle, 2005
- 8) State Coastal Conservancy, California Beach Restoration Study, January 2002.
- 9) "Updated Geotechnical Recommendations Proposed Maintenance Repairs Existing Lower Bluff Seawall & South Property Line Upper Buff Caisson System, Del Mar Beach Club HOA, 825 S. Sierra Avenue, Solana Beach, California 92075", prepared by Soil Engineering Construction, dated April 3, 2023.
- 10) Grading and Improvement plans, Del Mar Beach Club Phase I Seawall and Upper Bluff Repair, 825 S. Sierra Avenue, Solana Beach, California, prepared by Degenkolb Engineers, job number C1676031.00



November 16, 2023

UES/CTE Job No. 4830.2300109

ATTACHMENT

City of Solana Beach 635 South Highway 101 Solana Beach, California 92075

- Attention: Ms. Corey Andrews (858) 720-2434 candrews@cosb.org
- Subject: Application Submittal Geotechnical Review -3rd Review Del Mar Beach Club Seawall Repair 825 South Sierra Avenue, Solana Beach, California 92075

References: At End of Document

Ms. Andrews:

As requested, Universal Engineering Sciences (UES/CTE) has reviewed the submittal application documents referenced at the end of this letter. The purpose of our review was to assess whether the proposed project is in substantial compliance with the City of Solana Beach's (City) Local Coastal Plan (LCP) policies.

Based on CTE's review and report of the project geotechnical consultant (SEC), the proposed work consists of an emergency repair to the existing lower sea-wall (a length of approximately 170 ft north from the southern extent of the wall), and repair to the existing upper bluff pier wall running east/west at the southern property line.

- 1) The City should note that the applicant's geotechnical engineer has indicated an emergency condition in the referenced letter (SEC, Sept. 2023).
- 2) It has been noted that grout sampling will be performed daily. **Previous request is satisfied.**
- 3) It has been noted that monitoring points have been identified on the plan sheets and a threshold movement of $\frac{1}{2}$ " is indicated. **Previous request is satisfied.**
- 4) The structural engineer has confirmed that the wall has been designed for hydrostatic pressures for the full wall height. **Previous request is satisfied.**
- 5) The project Geotechnical Engineer has indicated that they have reviewed the project plans and calculations, from a geotechnical perspective, and finds them to be in general conformance with their recommendations (SEC, 2023). **Previous request is satisfied.**

Based on our review of referenced documents, no additional information is requested. If referenced plans or documents are revised, they should be provided to UES/CTE for review.



LIMITATIONS

UES/CTE has reviewed the referenced documents for this review from a geotechnical perspective and for geotechnical conformance with the City of Solana Beach's (City) Local Coastal Plan (LCP) policies and regionally accepted geotechnical standards of practice. It is not in UES/CTE's scope of work or responsibility to perform an independent geotechnical investigation or analysis of the proposed work site. The proposed site exists on an actively eroding coastal bluff, and as such, local and global stability are unpredictable and subject to change based on internal and external factors. UES/CTE makes no warranties as to the effectiveness or appropriateness of the applicant's proposed work.

We appreciate this opportunity to be of service on this project. If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Respectfully,

UNIVERSAL ENGINEERING SCIENCES (UES/CTE)

C.L

Colm J. Kenny, GE #3201 Senior Engineer

CJK/JFL:cjk



7. Jun

Jay F. Lynch, CEG #1890 Principal Engineering Geologist





REVIEWED DOCUMENTS:

Del Mar Beach Club – Phase I Seawall and Upper Bluff Repair 825 S. Sierra Avenue Solana Beach, California [Degenkolb Job Number C1676031.00] Conditional Use Permit No.: CUP23-001 Dated November 14, 2023

Letter: Del Mar Beach Club – Phase I Seawall & Upper Bluff Repair 825 S. Sierra Avenue Solana Beach, California Soil Engineering Construction, Inc. dated September 18, 2023

Del Mar Beach Club Proposed Maintenance/Repairs to Existing Seawall and Upper Bluff Caisson System – Phase 1 Prepared by Soil Engineering, Inc.

Del Mar Beach Club – Phase I Seawall and Upper Bluff Repair 825 S. Sierra Avenue Solana Beach, California [Degenkolb Job Number C1676031.00] Conditional Use Permit No.: CUP23-001 Dated September 18, 2023

Application Submittal Geotechnical Review -1st Review Del Mar Beach Club Seawall Repair 825 South Sierra Avenue, Solana Beach, California 92075 UES Job No. 4830.2300109, dated September 7, 2023

Response to Planning Review Comments Del Mar Beach Club, CUP 23-001 Prepared by SEC, Dated July 31, 2023

CUP23-001 a Conditional Use Permit (CUP) Maintenance and Repair of Southern 170-ft of an Existing 540-ft Long Lower Bluff Seawall and A Lateral Wall Along the Southern Terminus of the Coastal Bluff Below 825 S. Sierra Avenue, Solana Beach, California, Dated June 16, 2023

Bluff Retention Device Conditional Use Permit Application 825 South Sierra Avenue, Solana Beach, California 92075 City of Solana Beach, Applicant dated April 27, 2023

Update Geotechnical Recommendations

Proposed Maintenance Repairs Existing Lower Bluff Seawall & South Property Line Upper Bluff Caisson System, 825 South Sierra Avenue, Solana Beach, California 92075 Prepared by SEC, Dated April 3, 2023



Drawings Revised Del Mar Beach Club Sea Wall Del Mar Beach Club Proposed Maintenance/Repairs to Existing Seawall and Upper Bluff Caisson System-Phase 1 Prepared by SEC, Dated April 3, 2023

Structural Calculations Del Mar Beach Club Seawall and Upper Bluff Repairs 825 South Sierra Avenue, Solana Beach, California 92075 Degenklob Engineers Job No. C1676031.00, Dated February 8, 2023

Existing Photo; Lateral Wall on Southerly Property Line DMBC, Existing Conditions—Upper Bluff South End

Existing Photo; Segment of Southerly 170ft of DMBC Seawall DMBC Existing Conditions

2013 Photo; Del Mar Beach Club, California Coastal Records Project

1989 Photo; Del Mar Beach Club, California Coastal Records Project

UPDATED GEOTECHNICAL RECOMMENDATIONS - PROPOSED MAINTENANCE REPAIRS EXISTING LOWER BLUFF SEAWALL & SOUTH PROPERTY LINE UPPER BLUFF CAISSON SYSTEM

DEL MAR BEACH CLUB HOA 825 S. SIERRA AVENUE SOLANA BEACH, CALIFORNIA 92075

Prepared for:

Mr. Terry Himes Del Mar Beach Club HOA c/o Robert Trettin 825 S. Sierra Avenue Solana Beach, California 92075

April 3, 2023

927 Arguello Street, Redwood City, California 94063 (760) 633-3470 // (650) 367-9595

ATTACHMENT 5

Updated Geotechnical Recommendations - Proposed Maintenance Repairs Existing Lower Bluff Seawall & South Property Line Upper Bluff Caisson System Del Mar Beach Club HOA - 825 S. Sierra Avenue, Solana Beach, California 92075

1.0 INTRODUCTION AND OVERVIEW

This report summarizes the findings of the Soil Engineering Construction, Inc. (SEC) updated geotechnical recommendations for the coastal bluff area at the south and west portions of the subject site. Coastal bluff retreat has adversely affected the subject site since the early 1980's. To protect improvements on-site, the DMBC has permitted and constructed various coastal protection devices over the years. These include a lower bluff seawall which fronts the western boundary of the subject property, a drilled pier wall within the building pad near the southwest property corner, and a pile supported wall with shotcrete facing on the bluff face at the southwest property corner. Ongoing erosion and bluff failures in this area have worsened conditions from a geotechnical standpoint, maintenance repairs to the protective devices are now required.

Purpose of this updated geotechnical evaluation for the DMBC:

- Document the condition of the previously installed coastal protection devices within the subject area;
- Provide opinions of the stability of the subject property related to the deterioration of coastal protection devices;
- Document whether an imminent threat of damage or failure to the coastal protective devices or structures on-site now exists as a result of continuing mid/upper bluff failure at the southwest property corner; and,
- Provide recommendations for improvements to the coastal protection devices. Elements of the report include an evaluation of previous geotechnical studies and a presentation of useful information relevant to the coastline erosion processes in the area. The site location is depicted on Figure 1 in Appendix B

2.0 SCOPE OF WORK

The scope of this geotechnical evaluation includes:

- Review of geological, topographical, and historic aerial imagery and literature pertaining to the site and vicinity. (see **Appendix A**).
- Geological reconnaissance to record, measure and map portions of the coastal bluff and document the current conditions of the previously installed coastal protective devices.
- Destructive testing to expose the steel reinforcement of the existing seawall.

- Load testing of the previously installed tie-back anchors associated with the existing seawall.
- Assess previous laboratory test data relative to strength parameters for the soil/geologic units of the area.
- Present site topographic plans and provide geological cross-section profiles of the coastal bluff properties.
- Geotechnical analysis of the previous data obtained relative to existing bluff stability as well as proposed bluff conditions once recommended repairs are implemented at the site (see **Appendix B**).
- Preparation of this final report.

3.0 <u>GEOLOGIC SETTING</u>

The site is located within the coastal portion of the Peninsular Ranges Geomorphic Province of California. This province, which extends 900 miles from Southern California to the southern tip of Baja California, is characterized by northwest-trending structural blocks. The coastal portion of the province in San Diego County is typically comprised of upper Cretaceous-aged to Tertiary-aged (1.8 million to 65 million years) marine and non-marine sedimentary bedrock units that have been deposited within a northwest trending basin known as the San Diego Embayment (Norris & Webb, 1976). Recent geologic uplift along the San Diego coastal margin, combined with sea level changes, have created marine terraces and associated deposits consisting of near-shore marine, beach estuarine, and lagoonal facies. These deposits range from early to mid-Quaternary-aged (45,000 to 1.5 million years) and are designated in geologic literature as Paralic Deposits.

According to the geologic literature, the site is underlain by Quaternary-aged surficial deposits designated Old Paralic Deposits, Unit 6. These deposits are in turn underlain by the Tertiary-aged Torrey Sandstone. The site location is identified on the Geologic Plan (Figure 5 in Appendix B). Geologic literature describes the Paralic Deposits as, "poorly sorted, moderately permeable, reddish-brown, interfingered strandline, beach, estuarine and colluvial deposits composed of siltstone, sandstone and conglomerate." The Torrey Sandstone is described as, "white to light brown, medium to coarse grained, moderately well indurated, massive and broadly cross bedded, arkosic sandstone" (Kennedy and Tan, 2008).

4.0 <u>SITE STRATIGRAPHY</u>

The subsurface descriptions presented below are interpreted from the conditions exposed during the referenced field investigation conducted by others, recent mapping of the bluff exposure and/or inferred from local geologic literature. Cross Section A-A', Figure 4 in Appendix B, which was adapted from the referenced investigation by Group Delta, depicts the subsurface profile and changes in the bluff profile over time.

<u>Old Paralic Deposits – Unit 6 (Qop6)</u> – Old surficial deposits designated Quaternary-aged Old Paralic Deposits, Unit 6 were encountered during the referenced investigation. These deposits are associated with the Nestor marine terrace and are approximately 120,000 years old and are often referred to as Terrace Sands or Terrace Deposits. The upper approximate 20 feet were generally logged as a light reddish brown, medium dense, fine to medium grained sandstone. Below the approximate 20-foot depth within the paralic deposits an increase in density was noted.

Mapping of the bluff revealed the moderately cemented reddish brown sandstone or "beach ridge" deposits within the upper approximate 5 feet of the bluff, forming a cap across the lot that is more resistant to erosion as indicated by the near vertical exposures of this material. Underlying the "beach ridge" cap, two zones of poorly cemented tan sandstone were identified. These zones, which are more susceptible to erosion, form the sloping terrain, which extends down to the underlying bedrock sea cliff.

<u>Bedrock – Torrey Sandstone (Tt)</u> – Bedrock of the Tertiary-aged Torrey Sandstone was mapped underlying the Paralic Deposits at an approximate elevation of 28 feet MSL, and was generally described as a well indurated, medium to coarse grained, tan to light gray sandstone. The sandstone forms an approximate 15-foot-high sea cliff, the base of which is within beach sands. The face of the sea cliff is at or beyond vertical with several feet of overhang along some portions. General bedding with a southeasterly dip on the order of 2 degrees, along with localized higher angled cross bedding with random orientations, was measured within exposures of the Torrey Sandstone. Several minor sea caves or notches were noted within the base of the sea cliff at the existing beach grade.

5.0 SITE-SPECIFIC COASTAL BLUFF TOP RETREAT

A site-specific coastal bluff top retreat rate was evaluated utilizing small scale (1'' = 2000') stereopair historical aerial photos ranging from 1969 through 1998, large scale (1'' = 40') aerial photographs ranging from 1994 through 2010, and higher resolution oblique aerials ranging from 1972 to 2013. Based on a review of these images, there appears to have been relatively small changes in the bluff top configuration along the western perimeter of the lot. Three oblique aerials, 1972, 1989, and 2013, which were shot at similar angles, were selected and roughly scaled for comparative purposes. Over the approximate 40-year period with the three images, it is evident that the subject bluff top experienced a very minor level of erosion during this period.

It should be noted that site-specific erosion rates have likely been reduced as the base of bluff has been improved with a concrete and wood seat wall. Similar improvements were noted along the base of bluff to neighboring lots both north and south of the subject site. These conditions would tend to reduce erosion caused by wave action along the base of bluff along with associated bluff top retreat. For purposes of our evaluation, an average retreat rate consistent with those established by regional studies which are summarized in the next section was utilized. In this case, an average rate of 0.25 ft/year was adopted for the site.

6.0 <u>REVIEW OF COASTAL BLUFF RETREAT DOCUMENTS AND STUDIES</u>

In addition to the review of aerial images, published reports which address coastal bluff retreat rates in the Solana Beach, Encinitas and Leucadia area were reviewed.

A FEMA funded study conducted by Benumof and Griggs (1999), evaluated sea cliff erosion rates along several coastline sites within San Diego County including a 0.5 mile stretch of Encinitas located south of the subject site. These rates were determined over a 62-year period 1932 through 1994 and include short-term erosional episodes related to severe winter storms, including sea cave or notch overhand collapses. The study reported average long-term retreat rate for the Encinitas area of 7.7 cm/year or 0.25 ft/year.

A 2015 study by the U.S. Army Corps of Engineers evaluated the potential impacts from coastal erosion in the Encinitas area from the south end of Solana Beach to the north end of Leucadia. The study was divided into nine different zones or reaches, with the subject lot located in Reach 1, which extends from Leucadia Boulevard north to La Costa Avenue. Reach 1 was described as having many properties with bluff base improvements similar to the wall identified at the subject property. Bluff composition for the reach was described as having a flatter upper bluff slope with vegetation cover, and an erosion resistant bluff base comprised of bedrock and a continuous cobble berm. The study concluded sea cliff retreat rates of 0.3 ft/year, and bluff top retreat rates of 0.2 ft/year.

7.0 POTENTIAL SEA LEVEL RISE IMPACT

As part of our investigation, and in accordance with the State of California Sea-Level Rise Guidance 2018 Update, we evaluated potential site impact regarding sea-level rise. For evaluation purposes, we utilized data from gauge (#9410230) in La Jolla and assumed a project lifespan target date for 2090.

Based on information from the NOAA.gov website, the La Jolla tide gauge has tide level measurements dating back to 1924. Historical tide gauge measurements over the previous 97 years indicate a sea-level trend of 2.04 mm/year, with a 95 percent confidence interval of +/- 0.23 mm/year. The sea-level trend data projected to a 75-year lifespan indicates a sea-level rise ranging from 135 mm to 170 mm. Although useful, the historical sea-level trend does not consider the impact of climate change on sea-level rise.

The State of California Sea-Level Rise Guidance (2018) document provides projected sea-level rise, with climate change taken into account, for 12 tide gauges located along the California coastline from Crescent City in Northern California to San Diego in Southern California. Tables for each of the 12 tide gauges are provided with sea-level rise projections at 10-year intervals for years ranging from 2030 to 2150 and projected ranges including median, likely, 1-in-20 chance, and 1-in-200 chance. Different risk aversion levels, including low, medium-high, and extreme, are also provided for project planning purposes. The low-risk aversion is associated with the "likely" range with a 66 percent probability of occurrence, and the medium-high risk aversion is "1-in-200 chance" with a 0.5 percent probability of occurrence. There is also an extreme risk aversion category that is not associated with a specific climate change projection and is intended for projects with a low tolerance for risks, such as power plants, airports, and hazardous waste storage sites. For years beyond 2050, different emission scenarios, either low emission or high emission, are also provided.

As previously mentioned, the La Jolla tide gauge was identified as #9410230, and a project lifespan target date of 2090 was utilized for our evaluation. The following table summarizes sea level rise

projections provided in "Table 34: Projected Sea-Level Rise (in feet) for San Diego" from the State of California Sea-Level Rise Guidance (2018) document. These values can be utilized for determining potential site impact from sea level rise.

SEA LEVEL RISE PROJECTIONS										
	MEDIAN	LI	KELY	1-in-20 Chance	1-in-200 Chance	H++				
	50% probability sea level rise meets or exceeds	probability sea level rise meets or 66% probability sea level rise is between		5%0.5%probabilityprobabilitsea levelsea levelrise meetsrise meetsororexceedsexceeds		scenario (Sweet et al, 2017) *Single scenario				
					Medium – High Risk Aversion	Extreme Risk Aversion				
Low emissions (2090)	1.6′	1.0′	2.2'	2.9'	4.8′					
High emissions (2090)	2.2'	1.6′	3.0′	3.7'	5.7'	8.3′				

The project designers can consider the potential impacts of sea-level rise on the proposed development.

8.0 GROUNDWATER AND SURFACE WATER

No significant groundwater seepage was observed at the contact of the Pleistocene terrace deposits over the Torrey Sandstone. We note that seasonal perched groundwater levels and conditions can fluctuate due to factors such as rainfall amounts, rainfall intensity, temperatures, or other factors. Changes in this perched groundwater condition can affect the stability of the upper bluff area.

9.0 <u>CONCLUSIONS, FINDINGS & RECOMMENDATIONS</u>

Based on our investigation, the previously installed protective devices have been adversely impacted by on-going erosion and bluff failures. These devices have undergone both chemical and physical weathering as a result of exposure to the elements including sea air and wave action. To extend the lifespan of the devices, and minimize the potential impacts to the improvements on-site, maintenance and repairs are warranted. For the purposes of this report, there are two areas proposed for immediate maintenance/improvement. Our findings and recommendations are discussed in further detail below. A photo image depicting the current site conditions is provided as Proposed South end Caisson Repair, Figure 2 in Appendix B, and a topographic plan view of the subject area is provided as Section Plan View, Figure 3 in Appendix B.

The first area for required maintenance and repairs is the southern +/- 170 lineal feet of the lower sea wall. As part of our geotechnical work, several tieback anchorage heads along the seawall were exposed by removing the concrete anchorage encasements. Severe corrosion of the tieback

anchor tendons, anchor heads and bearing plates were observed. SEC attempted to pull test several individual anchor tendons at different tieback locations using a calibrated center hole jack. Each of the tested tieback tendons failed at relatively low loads, less than 50% of a typical tendon load, with some tendons failing at near zero loads behind the bearing plate, due to corrosion. Based on our observations and experience, it is our finding that most of the existing lower bluff seawall tiebacks have been severely compromised, see photo below, and that as part of the wall repair project a new row of tiebacks should be installed. Relying on the existing tiebacks for lateral support of the existing seawall is not recommended.



The proposed new seawall tiebacks should be designed assuming unbonded lengths and loading consistent with the original seawall design. It is recommended that the new tieback unbonded zone should 20 feet and a bond stress of 21 psi can be assumed for tieback anchor design.

SEC also observed severe concrete spalling along most of the entire length of the lower bluff seawall. A few areas in the concrete seawall face were opened up to observe the outer layer of reinforcing steel. It appears that a new outer reinforcing steel mat will be required, in most areas, to be replaced due to corrosion. We recommend that all spalled concrete be removed and reinforcing steel be replaced or cleaned and a new shotcrete cover be installed over the length of the repair.

No weep holes were observed in the seawall. It is recommended that weep holes be installed at or above elevation +7msl. Installing weep holes at lower elevations may cause piping behind the wall from ocean surges during high tides and storm conditions. If it is decided to install weep holes at a higher elevation, like +7'msl, then the structural engineer should consider adding hydrostatic pressures in design of the lateral support anchors.



The second area for required maintenance and repairs is the upper bluff pier wall and adjacent bluff face along the southern property line of the DMBC condominium complex. Based on our recent review the bluff has receded eastward approximately 8 feet since the pier wall and shotcrete were previously installed. This greatly exceeds the normal annual bluff retreat rate, and is a result of bluff failures. Ongoing upper-bluff failures and associated erosion will continue resulting in the exposure of the concrete piers and potentially threatening to undermine the existing bluff-top structures. At a minimum, we recommend a reinforced shotcrete skin be installed over the existing 18-inch diameter drilled piers for the full length of the current erosion exposure, approximately 4 lineal feet +/-. The new reinforced shotcrete covering should extend a minimum of 3 feet into the underlying bluff materials. If additional tiebacks are necessary, then the minimum unbonded length should be 20 feet. A bond stress in the upper native terrace deposits may be assumed as 15psi. In order to keep tiebacks at a reasonable design load, we recommend a minimum of 3 rows of anchors. The anchors shall be proof tested to 133% of design load. We recommend that the project structural engineer evaluate the existing wall design and make a determination if additional tieback anchors are required. A preliminary wall loading diagram is provided in Figure 6, Appendix B.

10.0 SAFETY CONSIDERATIONS

Due to the large-scale failures that have occurred to the bluff face, the safety factor at the top and base of bluff is a very important issue. Recent bluff failures in the immediate vicinity have resulted in fatalities and/or significant injuries. Contractors, engineers, pedestrians, and *any other persons in the vicinity*, should be aware and warned of the severity of the bluff face conditions.

The present condition of the bluff profile constitutes an active hazard to properties and persons living and/or working above the bluff profile. The present condition also constitutes a hazard to persons along the base of the bluff profile. This hazard along the base of the bluff is estimated to extend approximately 50 feet seaward of the base of the bluff.

Without the proposed shore protection measures, the section along the beach-level area does not have ample space between the bluff face and the ocean during high tide periods for a person

to walk and not be in a region of hazard. Generally, beach hazards include complete collapse of sea caves and undercut and over-steepened bluffs, as well as massive slope failures of the bluff above the bedrock. Potential failures along the top of the bluff profile may extend landward from approximately several feet to 20-foot.

11.0 LIMITATIONS AND CHANGING CONDITIONS

This updated geotechnical evaluation report addresses limited geotechnical conditions at DMBC site, and is based on our document review, our experience in bluff projects, and our observations of the geological conditions exposed in the bluff at this locality. This report assumes that the geologic/soils conditions do not deviate appreciably from those observed. The recommendations of this report pertain only to the subject site.

The findings of this report are valid as of this date. Changes in conditions of this region can occur with the passage of time, through natural processes or the work of man at this vicinity. In addition, applicable standards may be changed by legislation or the broadening of knowledge in the fields of geotechnical engineering or geology. Hence, the findings of this report may be invalidated wholly or in part by changes beyond our control.

If there are questions regarding the information contained herein, we should be contacted. We will not be responsible for the misinterpretation by others of the information herein. Our services consist of professional consultation, and no warranty of any kind whatsoever, express or implied, is made or intended in connection with the work performed by us.

Respectfully submitted, **SOIL ENGINEERING CONSTRUCTION, INC.**

John W. Niven, P.E. OF CAL

Robert D. Mahony, G.E., C.E.G.



Appendix A – References Attachments: Appendix B – Figures (1-6) Repairs to Coastal Bluff, DMBC, Appendix C – Solana Beach. Drawing Sheets 1-18

APPENDIX A

- 1) California Coastal Commission, Staff Report, 341, 347, and 355 Pacific Avenue, Solana Beach, September 25, 2013.
- 2) California Coastal Records Project, Aerial Images, 1972, 1979, 1987, 1989, 2002, 2004, 2006, 2008, 2010, and 2013.
- 3) Continental Aerial Photo, Stereo-pair Aerial Photos, Flights 12-10-1969, 4-16-1972, 12-13-1978, 12-17-1979, 04-08-1980, 01-14-1988, 10-30-1993, 08-12-1998.
- 4) Google Earth, Aerial Images, 05-31-1994,12-31-2002, 06-29-2004, 01-03-2006, 02-29-2008, 08-23-2010, 11-2-2012, 05-11-2014, 04-14-2015.
- 5) Group Delta, Shoreline Erosion Study, North Solana Beach, California, August 20, 1998.
- 6) Group Delta, Geotechnical Investigation, Coastal Bluff at Southwest Property Corner, Del Mar Beach Club, Solana Beach, California, dated March 3, 1999.
- 7) Kennedy and Tan, Geologic Map of the San Diego 30' x 60' Quadrangle, 2005
- 8) State Coastal Conservancy, California Beach Restoration Study, January 2002.

APPENDIX B












SOIL ENGINEERING CONSTRUCTIONING.

APPENDIX C

DEL MAR BEACH CLUB PROPOSED MAINTENANCE/REPAIRS TO EXISTING SEAWALL AND UPPER BLUFF CAISSON SYSTEM - PHASE 1

GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREIN FOR PUBLIC ROAD PURPOSES.

2. FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.

3. IMPORT MATERIALS SHALL BE LEGALLY OBTAINED.

4. A SEPARATE PERMIT FROM THE CITY ENGINEER WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY.

5. ALL SLOPES OVER THREE FEET IN HEIGHT SHALL BE LANDSCAPED AND IRRIGATED

6. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

UNDERGROUND SERVICE ALERT 811

CITY OF SOLANA BEACH PUBLIC WORKS 858 720-2470

7. THE SOILS REPORT TITLED: UPDATED GEOTECHNICAL 7. THE SOLS REPORT TITLED UPDATED GEOTECHNICAL RECOMMENSIONS PROCESSID AND INTENANCE REPARTS ENSITE CLORER SPECTRAL AND AND THE COMPARY LIKE UPPER ENSITE CLORER SPECTRAL AND ADDIT HOUSE PROFILE AND ADDIT AND ADDIT AND ADDIT AND ADDIT AND ADDIT ENSITE SCIAL AND EACH CALL FORM AND ADDIT ENSITE SCIAL AND ADDIT AND ADDIT ADDIT ADDIT AND ADDIT ADDIT ADDIT ADDIT ADDIT ADDIT ENSITE SCIAL AND ADDIT AD ING SHALL BE

8. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND A VALID GRADING PERMIT HAS BEEN ISSUED.

9. THE CITY ENGINEER'S APPROVAL OF THESE PLANS DOES NOT CONSTITUTE THE BUILDING OFFICIAL'S APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOILS IS MADE OR IMPLIED.

10 ALL OPERATIONS CONDUCTED ON THE PREMISES. INCLUDING: THE 10. ALL OPERATIONS CONDUCTED ON THE PREMISSION SUNCLIDING THE WARMING UP, REVEAL, RARINAL, DEPARTURE OR RUNNING OF TRUCKS. EARTIMOVINGE EQUIPMENT, CASTRUCTIONS EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LITTED TO THE PERIOD BETWEEN 700 A.M. AND 6 800 P.M. EACH DAY, MONRY THRUGH PERIOD BETWEEN 700 A.M. AND 6 800 P.M. EACH DAY, MONRY THRUGH CONDUCTED ON THE PREMISSION SATURATION. SUMMAYS ON HOLDAYS WITHOUT THE WITH PERIODS ON ALTIGATION FLORE FLO

11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL SUFACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.

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15. ALL GRADING SHOWN ON THIS PLAN SHALL BE COMPLETED AS A SINGULAR UNIT WITH NO PROVISION FOR PARTIAL RELEASES. SHOULD IT BE ANTICIPATED THAT A PORTION OF THIS PROJECT IS COMPLETED SEPARATELY, A SEPARATE PLAN AND PERMIT APPLICATION SHALL BE SUBMITTED FOR APPROVAL

THE CONTRACTOR SHALL NOTIFY THE CITY OF SOLANA BEACH AT 58) 720-2470, 24 HOURS BEFORE GRADING OPERATIONS BEGIN.

17. FINISHED GRADING AND PLANTING SHALL BE ACCOMPLISHED ON ALL SLOPES PRIOR TO OCTOBER 1, OR IMMEDIATELY UPON COMPLETION OF ANY SLOPES GRADED BETWEEN OCTOBER 1 AND APRIL 1, PRIOR TO ANY PLANTING, ALL LANDSCAPING, SHALL BE APPROVED BY THE PLANNING DEPARTMENT AT THE DEVELOPMENT REVIEW STAGE, OR BY SEPARATE LANDSCAPING PLAN.

18 ALL OFE-SITE HALL POLITES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL 72 HOURS PRIOR TO BEGINNING WORK. 19. UPON FINAL COMPLETION OF THE WORK UNDER THE GRADING PERMIT, BUT PROR TO FINAL GRADING APPROVAL AND/OR FINAL RELASE OF SECURITY, AN AS GRADED CRETIFICATE SHALL BE PROVIDED STATING: "THE GRADING UNDER PERMIT NO. SBGR-MAS BEEN PERFORMED IN SUBSTATIAL CONFORMANCE WITH THE APPROVED GRADING PLAN OR AS SHOWN ON THE ATTACHED AS-GRADED PLANT: 'THIS STATEMENT SHALL BE FOLLOWED BY THE DATE AND SIGNATURE OF THE CIVIL ENGINEER WHO CERTIFIES SUCH GRADING OPERATION.

20. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

EROSION CONTROL NOTES

T. STORM WATER AND NON-STORM WATER DISCHARGE CONTROL: BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO MANAGE STORM WATER AND NON-STORM WATER DISCHARGES FROM THE SITE AT ALL TIMES DURING EXCAVATION AND GRADING ACTIVITIES. 2. EROSION AND SEDIMENT CONTROL: EROSION PREVENTION SHALL BE 2 EROSION AND SEDIMENT CONTROL: EROSION PREVENTION STALL BE EMPHASIZED AS THE MOST IMPORTANT MEASURE FOR KEEPING SEDIMENT ON SITE DURING EXCAVATION AND GRADING ACTIVITIES. SEDIMENT CONTROLS SHALL BE USED AS A SUPPLEMENT TO EROSION PREVENTION FOR KEEPING SEDIMENT ON SITE.

3. EROSION CONTROL ON SLOPES SHALL BE MITIGATED BY INSTALLING LANDSCAPING AS PER APPROVED LANDSCAPE PLANS AS REQUIRED BY THE DEVELOPMENT REVIEW CONDITIONS, OR BY TEMPORARY EROSION CONTROL CONFORMING TO THE FOLLOWING:

NON-IPPIGATED HYDROSEED MIX WITH A BONDED EIREP MATRIX APPLIED AT 4,000 LB/ACRE. LBS./ACRE % PURITY/ACRE SEED SPECIES 20 70% PLUS ATRIPLEX GLAU PLANTAGE INSULARIS FNCELIS FARINOSA SCARIFIED LOTUS SCOPARIUS 50% PLUS EXCHSCHOLZIA CALIFORNIA 7 TOTAL 91 LBS.

4. THE TOPS OF ALL SLOPES TALLER THAN 5' SHALL BE DIKED

5. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER.

6 SAND BAC CHECK DAMS SILT FENCES FIREP POLLS OF OTHER SAND BAS CHECK DAMS, SILT FENCES, FIBER ROLLS OR OTHER APPROVED BMP'S SHALL BE PLACED IN UNPAVED AREAS WITH GRADIENTS IN EXCESS OF 2%, AS WELL AS AT OR NEAR EVERY POINT WHERE CONCENTRATED FLOW LEAVE THE SITE.

7. SAND BAGS SHALL BE PLACED ON THE UPSTREAM SIDE OF ALL DRAINAGE INLETS TO MINIMIZE SILT BUILDUP IN THE INLETS AND PIPES.

8. THE CONTRACTOR SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE OFFICE OF THE CITY ENGINEER.

9. THE CONTRACTOR SHALL SWEEP ROADWAYS AND ENTRANCES T AND FROM THE SITE ON A REGULAR BASIS TO KEEP THEM FREE OF SOIL ACCUMULATION AND AT ALL OTHER TIMES DIRECTED BY THE CITY ENGINEER

10. THE CONTRACTOR SHALL WATER SITE ON A CONTINUOUS BASIS TO MINIMIZE AIR BORNE DUST CREATED FROM GRADING AND HAULIN OPERATIONS OR EXCESSIVE WIND CONDITIONS, AND AT ALL TIMES DIRECTED BY THE CITY ENSINEER. ALILING

11. IN THE EVENT SILT DOES ENTER THE EXISTING PUBLIC STORM DRAIN SYSTEM. REMOVAL OF THE SILT FROM THE SYSTEM WILL BE AT THE DEVELOPER'S EXPENSE.

AS-BUILT:

UPON COMPLETION, AND PRIOR TO RELEASING THE SECURITIES, THE ENGINEER OF WORK SHALL "AS-BUILT" THE ORGINAL MITAR PLANS. INITIALLY, TWO COPIES OR FED-LINED PLANS SHOWING ALL ASBUILT INFORMATION, INCLUDING ALL NEW UNDERGROUND FACILITIES (MAIN LINES, SERVICES AND LATERALS), IS TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT. WHEN THE RED LINES TO BE SUBMITTED TO THE ENGINEERING DEPARTMENT. WHEN THE RED-LINE ARE APPROVED, THE ORIGINAL MYLAR PLANS WILL BE CHECKED OUT TO THE ENGINEER. THE ENGINEER SHALL MAKE THE CHANGES, SIGN EACH SHEET UNDER "AS-BUILT", AND RETURN ORIGINAL MYLARS TO THE CITY.

FLOOD STATEMENT

A REGISTERED CIVIL ENGINEER/SURVEYOR, HEREBY CERTIFY THAT THE PAD STRUCTURES SHOWN ON THIS AS BUILT GRADING PLAN HAVE BEEN VERHED BY ME AND THAT SAD ELEVATIONS ARE AT OR ABOVE THE BASE FLOOD ELEVATION SHOWN ON THE FLOOD INSURANCE RAFE MAY OF THE COUNTY OF SAM DIEGO.

DATE R.C.E./P.L.S. NO. EXP.

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OWNER/DEVELOPER CERTIFICATE

I, ______AS OWNER/DEVELOPER OF THE PROPERTY DESCRIBED HEREIN ACKNOWLEDGE THESE PLANS HAVE BEEN PREPARED AT MY DIRECTION WITH MY FULL CONSENT. I FULLY UNDERSTAND AND ACCEPT THE TERMS AND CONDITIONS CONTAINED HEREIN AND AS ATTACHED BY REFERENCE ON THIS GRADING PLAN. IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO

THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER/DEVELOPER SHALL HAVE A ISTERED CIVIL ENGINEER MAKE SUCH CHANGES. ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE CITY ENGINEER DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS.

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 9 MONTHS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY

DATE

ENGINEER OF WORK CERTIFICATE

I, ROBERT D. MAHONY HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AND CITY OF SOLANA BEACH RESOLUTION NO.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SOLANA BEACH AND ANY OTHER PUBLIC AGENCY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME OF RESPONSIBILITIES FOR PROJECT DESIGN.

SIGNED Robert Mahong DATE 4323 R.C.E. NO. 16459 EXP. 63025

 SOIL ENGINEERING CONSTRUCTION, INC.

 927 ARGUELLO STREET

 ADDRESS

 927 ARGUELLO STREET

 REDWOOD CITY, CALIFORNIA \$4063

 TELEPHONE (760) \$33-3470

ENGINEER OF WORK AS-BUILT CERTIFICATE

I, ROBERT D. MAHONY HEREBY DECLARE THAT THE PREPARATION OF THESE AS-BUILT DRAWINGS AND THAT THE INFORMATION SHOWN IS BASED ON ACTUAL SITE INVESTIGATIONS AND SURVEYS OF THE IMPROVEMENTS BETWEEN THE DATES OF AN ACCURATI

SIGNED DATE R.C.E. NO. 18459 EXP. 63025

SOUNTY OF SAN DIEGO	OWNER/APN/APPLICAN OWNER DEL UMA REACHCUB DEL UMA REACHCUB 205 S LEERA AVENUE, SOLANA BEACH, C APN, LOWT THE TRETTIN COMPANY THE TRETTIN COMPANY THE TRETTIN COMPANY THE TRETTIN COMPANY THE TRETTIN COMPANY SNI MARCOS, CA 92078 (58) 903-171	<u> </u>
$\mathcal{A}_{\tilde{\mathbf{v}}}$	TOTAL DISTURBED AREA APPROX - 0.01 ACRES	A
	GRADING QUANTITIES	MAX.CUT DEPTH 2.0 IFTI
WISTA DE	GRADED AREA CUT [CYD]	MAX.COT DEPTH 20 [FT]

QUANTITIES FILL	0.0	[CYD]	MAX CUT SLOPE R	ATIO (2:1MAX) 0
QUANTITIES	0.0	[CYD]	MAX. FILL DEPTH	0 [FT]
IMPORT/EXPORT	0.0	[CYD]	MAX FILL SLOPE R	ATIO (2:1MAX) <u>N/A</u>
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			LEGAL DISPOSAL SITE	
			SALE OF THE MATERIA	AL. ALL SUCH

CIVIL ENGINEER OF RECORD: SOIL ENGINEERING CONSTRUCTION, INC. ROBERT D. MAHONY, R.C.E., C.E.G., R.G.E. 927 ARGUELLO STREET REDWOOD CITY, AN USENING LONGE

JEREMY CALLISTER 225 BROADWAY, STE 1325 SAN DIEGO, CA 92101 (619) 515-0299

RO

CALIFORNIA 94063 (760) 633-3470

STRUCTURAL DESIGN ENGINEER: DEGENKOLB ENGINEERS

STORM WATER PROTECTION NOTES

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO._______; AND RISK LEVEL/TYPE: CHECK ONE BELOW

- O. WPCP CGP RISK LEVEL 1 CGP RISK LEVEL 2 CGP RISK LEVEL 3 CGP LUP TYPE 1 CGP LUP TYPE 2 CGP LUP TYPE 3
- CHECK ONE
 THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A
 WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
 THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.

3. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWORD AS ADDITION OF THE WPCP OR

PROJECT CONTACTS/CONSULTANTS

OWNER: DEL MAR BEACH CLUB HOA C/O MR. TERRY HINES 825 S. SIERRA AVENUE SOLANA BEACH, CALIFORNIA 92075 APPLICANT: THE TRETTIN COMPANY ROBERT TRETTIN 1195 LA MOREE ROAD, #18 SAN MARCOS, CA 92078 PH: (858) 603-1741 LAND SURVEYOR: CIREMELE SURVEYING INC. CHRIS CIREMELE, L.L.S. 164 S. ESCONDIDO BLVD., ESCONDIDO, CALIFORNIA 92025

(760) 489-2200

SOIL ENGINEER OF RECORD: SOIL ENGINEERING CONSTRUCTION, INC. ROBERT D. MAHONY, R.C.E., C.E.G., R.G.E. 927 ARGUELLO STREET REDWOOD CITY, CALIEODNIA 04063 (760) 633-347/

SOIL ENGINEER CERTIFICATE

I, ROBERT D. MAHONY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING EXIGNEER OF THE STATE OF CALIFORNIA. PRINCIPALLY DOING BUSNEES IN THE TALE OF APPLIES ON INCOLMICS. HEREIPY CERTIFY THAT A SAMPLING AND STUDY OF THE SOL AND CONCINCION CERTIFY THAT A SAMPLING AND STUDY OF THE SOL AND CONCINCION PRECTON BETWEEN THE DATES SAMPLING AND MET PRECTON BETWEEN IS CONSTRUCTIVE THE APPROVED SOLS AND RECOMMENSATIONS CONTAINED IN THE APPROVED SOLS AND

OF THE FINAL SOLIS REPORT FOR THE PROJECT. NOW COMPLETE COFT RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE OFFICE OF THE CITY ENGINEER

SIGNED Robert Martin DATE 4323 G.E./R.C.E. NO. 554/16459 EXP. 6/30/25

TELEPHONE (760) 633-3470

TO THE BEST OF MY INVALUED OF AN EXPERIMENT HE GRADING CONFORMS WITH THE RECOMMENDATIONS CONTAINED IN THE SOLS REPORT AND PLANS WITH THE RECOMMENDATIONS CONTAINED IN THE SOLS REPORT AND PLANS WITH THE RECOMMENDATION AND AND AND AND AND AND DEVINITIONS FROM THE RANGE OF UNIVERSE OF RELD CONDITIONS ON COMPLETE CONFORMATION AND AND AND AND AND AND AND ONE COMPLETE CONFORMATIONS, HAS BEEN SUBMITTED TO THE STUDY, WITH MY RECOMMENDATIONS, HAS BEEN SUBMITTED TO THE

DATE

G.E./R.C.E. NO. 554/18459 EXP. 6/30/25

SIGNED



THE IMPROVEMENTS CONSIST OF CONSTRUCTION OF SEAWALL AND UPPER BLUFF REPAIR. WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY AND COUNTY OF SAN DIEGO. PROPOSED WORK INCLUDES LANDSCHING TO BLUFF DETAILS.

1. STANDARD SPECIFICATIONS: OCUMENT NO. DESCRIPTION DESCRIPTION STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2015 EDITION CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITE BOOK), 2015 EDIT. CALIFORNIA DEPARTMENT OF PWP1070116-02 TRANSPORTATION, MANUAL OF UNIFORN TRAFFIC CONTROL PITS070112-04 DEVICES. 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION, U.S. CUSTOMARY STANDARD SPECIFICATIONS, PITS070112-06 2010 EDITION 2. STANDARD DRAWINGS: DOCUMENT NO. PWP1070116-03 DESCRIPTION CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION 2016 EDITION CALIFORNIA DEPARTMENT OF PITS070112-05 TRANSPORTATION, U.S. CUSTOMARY STANDARD PLANS, 2010 EDITION LEGEND PROPOSED IMPROVEMENTS IMPROVEMENT STANDARD DWGS. SYMBOL PROPOSED SHOTCRET WALLIFACING (PVT) ALSO LIMITS OF WORK AND SOIL DISTURBANCE _____ T1-T15 PROPOSED TIEBACK (PVT) EXISTING COASTAL BLUFF EDGE T.O.W. EL. 35.0' MSL±, VARIES TOP OF WALL ELEVATION R/W PROPERTY LINE —----Pt—----SHEET INDEX DWG. REF. SHT. NO.

TITLE SHEET	G-001	SHEET 1
SITE PLAN	G-002	SHEET 2
GENERAL NOTES	S-001	SHEET 3
GENERAL NOTES	S-002	SHEET 4
SYMBOLS AND ABBREVIATIONS	S-003	SHEET 5
PARTIAL SITE REPAIR PLAN	C-101	SHEET 6
EROSION CONTROL PLAN	C-102	SHEET 7
SEAWALL PLAN & ELEVATION	S-102	SHEET 8
SEAWALL PLAN & ELEVATION	S-103	SHEET 9
CONCRETE REPAIR GENERAL NOTES	S-501	SHEET 10
CONCRETE REPAIR DETAILS	S-502	SHEET 11
TYPICAL CONCRETE DETAILS	S-503	SHEET 12
SEAWALL REPAIR DETAILS	S-511	SHEET 13
SEAWALL REPAIR DETAILS	S-512	SHEET 14
CONCRETE STAIR COLUMN REPAIR	S-521	SHEET 15
UPPER BLUFF REPAIR DETAILS	S-531	SHEET 16
UPPER BLUFF REPAIR DETAILS	S-532	SHEET 17
TIEBACK DETAILS	S-541	SHEET 18

PROJECT SCOPE

PHASE 1 OF THIS PROJECT INCLUDES STRUCTURAL REPAIRS TO THE APPROXIMATE 170 FT LONG SOUTHERN SEGMENT OF THE COASTAL BLUFF SEAWALL EXTENDING FROM THE BEACH ACCESS STAIRWAY TO THE SOLITHERN PROPERTY LINE AND TO THE (2) CONCRETE COLUMNS THAT SUPPORT THE LOWER PLATFORM LANDING OF THE BEACH ACCESS STAIDWAY THERE IS ALSO AN ADDROVIMATE 10ET LONG SEGMENT OF THE UPPER BLUFF ALONG THE SOUTHERN PROPERTY LINE THAT IS TO BE INFILLED WITH NEW SHOTCRETE

	COASTAL COMMISSION PERM	IT NO.: <u>6-00-009</u>
	BY:DATE:	1" 2" 3" ORIGINAL DRAWING MEASURE
	SOIL ENGINEERING CONSTRU LICENS # A-28002 927 ARGUELLO ST, REDWOOD GTV CA 940 PHONE (760) 633-3470 SEC JOB NO. 2200 SEC(SOLENNSNERNEONSTRUCTION COM	
Rithert Markenny BERTD. MAHONY, R.C.E., R.G.E., R.E.	G. EXP. 06-30-25	04/03/23 DATE

~gq	ANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH ENGINEERING DEPARTMENT	DRAWING REF. NO. G-001
		REVIEWED BX:	By: ROBERT D. MAHONY_Date: 04/03/23			By:Date:	By:Date:	DESCRIPTION: CITY OF SOLANA BEACH SURVEY CONTROL POINT NO. 2001 PER RECORD OF SURVEY MAP NO, 18971. 2.5" CITY OF SOLANA BEACH BRASS DISK STAMPED "SOLB-1, LS 7322, 2005" SET ON	TITLE SHEET FOR: 825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075	SBGR-
BY:	IRE CHIEF DATE:	DISTRICT REP. DATE	JK NAME: SOIL ENGINEERING CONST. DRAWN BY R.C.E. 16459 EXP: 06/30/25	-		DAN GOLDBERG By:Date:	MOHAMMAD SAMMAK, CITY ENGINEER EXP: 6/30/24 R.C.E.: 37146	CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY 101, 0.1 MILE SOUTH OF LOMAS SANTA FE DRIVE. ELEVATION: 71.450 FEET (NAVD88)	SEAWALL AND UPPER BLUFF REPAIRS - PHASE 1	Sheet 1 of 18

FIRM SOIL ENGINEERING CONSTRUCTION, INC. ADDRESS REDWOOD CITY, CALIFORNIA 94063

SOILS ENGINEER AS-BUILT CERTIFICATE



GENERAL NOTES:

GENERA

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2022 EDITION OF THE CALIFORNIA BULDING CODE, WITH CITY OF SOLANA BEACH AMENDMENTS AND THE REQUIREMENTS O THE CONTRACT DOCUMENTS.
- REFERENCE TO CODES, RULES, REGILATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY NOICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION. SUBJECT TO REVIEW BY THE 3.
- DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
- DO NOT SCALE THE DRAWINGS. 6
- PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORNEFOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED OVIL BYORNEF WHO IS PROPERY CULLAFED TO DESIGN BRACING, SHORING, ETC. VISTS TO THE SITE BY THE ENGINEER WILL NOT INCLUDE OBSERVATION OF THE AROVE NOTED IFUS.
- NFORMATION SHOWN ON THE EDRAWINGS RELATE TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GURANTEE OF ACCURACY. REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GURANTEE OF ACCURACY. REPORT CONDITIONS THAT CORLICE WITH THE CONTRACT DOCUMENTS TO THE ENGINEER. DO NOT DEVINE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE ENGINEER.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISOLTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE EXCAVATION AND NOTWITTENAMING THE MINIMUM STADLARDS STORTING THE EXCAVATION AND GRADING CODE, AND NOTWITTENAMING THE APPROVIL OF THE EXCAVATION AND GRADING CODE, AND NOTWITTENAMING THE APPROVIL OF THE GRADING PLANE, THE DECEMBER AND AND NOTWITTENAMING THE APPROVIL OF THE GRADING PLANE. THE DECEMBER AND ADDITIONED AND THE APPROVIL OF THE APPROVING PROPERTY NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY HE ADDITION STATUS AND ADDITIONED AND THE APPROVING THE ADDITION OF ANY SERVICE ADDITIONED AND THE APPROVING THE ADDITION OF ANY SERVICE ADDITIONED AND THE ADDITION OF ANY THE ADDITION SERVICE ADDITIONED AND THE ADDITIONAL ADDITIONAL ADDITIONAL SERVICE ADDITIONED AND THE ADDITIONAL ADDITIONAL ADDITIONAL SERVICE ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL DESCRIPTION ADDITIONAL ADDITIONAL
- THE DESIGN IS BASED ON ANTICIPATED SOIL CONDITIONS ON THE BASIS OF THE BORINGS 10. AND SOL REPORT PREPARED BY SOL ENGINEERING CONSTRUCTION. ITTLED "UPDATED GOETCENNICAL RECOMMENDATIONS - REPORSED MAINTENANCE REPARENES RESTING LOWER BLIFF SEMANLL & SOLTH PROPERTY LINE UPPER BLIFF CASSON SYSTEM", DATED FERMARY 20, 2015. IT HA CITALL FIELD CONDITIONS VARY FROM THE SESURED CONDITIONS. ADJUSTMENTS WILL BE MADE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER.
- 11. ELEVATIONS SHOWN ARE FROM THE ORIGINAL DRAWINGS. VERIFY IN FIELD & NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING

II. SUBMITTALS

- SUBMIT REQUIRED SUBMITTALS TO THE ENGINEER FOR REVIEW 1.
- CONCRETE REINFORCING STEEL: A. SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT IN ACCORDANCE WITH ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." 2.
- CAST-IN-PLACE CONCRETE- MIX DESIGNS PREPARED, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORMA FOR EACH CLASS STATE OF CALIFORMA FOR EACH CLASS STATE OF STATEMENT OF THE MIX. BIOST TO ESTRALISM MIX PROPORTIONS AND CERTIFIED MITERIAL CERTIFICATES FOR EACH COMPONENT OF THE MIX. A PROPORED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR 3.
 - REVIEW. PRODUCT DATA FOR CURING MATERIALS. PRODUCT DATA FOR NON-SHRINK GROUT.
- 4.
- SHOTCRETE: A MICROSTRED AND STANDED AND SIGNED BY A PROFESSIONAL ENGINEER NOT STERED IN THE STATE OF CALADONIA DOR EACH CASES OF CONCERTE NOT STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STABLISH MIX PROPORTIONS AND CERTIFIED MATERIAL CERTIFICATES FOR EACH COMPONENT OF THE MIX. PROPOSED CONSTRUCTION JOINT AND CONTROL JOINT LOCATIONS FOR
- REVIEW. PRODUCT DATA FOR CURING MATERIALS.
- 5.
- 6. ADHESIVE ANCHORS: A. PRODUCT DATA FOR EACH TYPE OF ADHESIVE ANCHORING SYSTEM USED.

SQLANA BEACH FIRE DEPARTMENT

FIRE CHIEF

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- SEQUENCING PLAN FOR ALL WORK, INCLUDING DEMOLITION AND COLUMN SHORING, INDICATING SEQUENTIAL AND CONCURRENT OPERATIONS.
- 8 SHOP DRAWINGS FOR ALL TIEBACKS INDICATING THE ASTM MATERIAL DESIGNATIONS, MEMBER DIMENSIONS, INSTALLATION PROCEDURES, EMBEDMENT DEPTHS, DESIGN LOADS, AND CONNECTION DETAILS.
- CERTIFIED MILL TEST REPORTS FOR EACH OF THE FOLLOWING: A. EACH HEAT OF TIEBACK 9.
- TEST DATA CERTIFYING THAT TIEBACK HAS SUITABLE PHYSICAL PROPERTIES TO FULLY DEVELOP THE MINIMUM GUARANTEED ULTIMATE TENSILE STRENGTH OF THE TIEBACK.

SANTA FE IRRIGATION DISTRICT

REVIEWED BY

DATE: DISTRICT REP

..... FORMWORK

- DESIGN AND CONSTRUCT EORMWORK IN ACCORDANCE WITH ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK' AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" UNLESS OTHERWISE NOTED.
- PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR "HONEYCOM UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.
- PROVIDE 3/4 INCH x 3/4 INCH CHAMFER STRIPS ON ALL EXTERNAL CORNERS OF BEAMS, COLUMNS AND WALLS, UNLESS OTHERWISE NOTED. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING
 - LOCATION POTTOM FORMS AND SHORES REMOVE NO SOONER THAN FOR MILDLY REINFORCED SLABS, BEAMS AND GIRDERS SIDE FORMS FOR BEAMS AND GIRDERS COLUMNS AND WALLS FOOTINGS AND GRADE BEAMS 72 HOURS 72 HOURS 48 HOURS
- PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS.
- FOAM FILL: ASTM C578, EXPANDED POLYSTYRENE (EPS) WITH MINIMUM COMPRESSIVE STRENGTH OF 40 PSI AT 10% DEFORMATION.

REINFORCING STEEL M

- FABRICATE AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT' AND ACI 301 'SPECIFICATIONS FOR STRUCTURAL CONCRETE', UNLESS OTHERWISE NOTED. REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED
 - REINFORCING STEEL #5 AND SMALLER TYPE ASTM A615, 60 KSI #5 AND SMALLER AS IM AGES & BARS TO BE WELDED AS IM AGES & 60 KSI HIGH STRENGTH REINF WHERE NOTED ON DWGS ASTM AGES, 75 KSI 1/2 INCH DUMETER LOW RELAXATION SEVEN-ASTM A416, 270 KSI ASTM A185, 70 KSI WIRE POST-TENSIONING STRAND WELDED STEEL WIRE FABRIC SMOOTH DOWELS IN SLAB ON GRADE ASTM A36, 36 KS
- ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.
- MECHANICAL COUPLERS: TYPE 2 PER ACL318 LINEESS OTHERWISE NOTED WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS
- 8 TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN. ALL STEEL REINFORCEMENT TO EPOXY COATED.
- FPOXY-COATED REINFORCEMENT
- REINFORCEMENT SHALL BE SHOP FABRICATED PRIOR TO COATING AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 284.
- VOIRSE VOIDS IN THE CONTINUE REGRADLESS OF CAUSE. SHALL BE PATCHED IF THE TOTAL AREA OF VOIDS EXCEEDS 0.2% OF THE SURFACE AREA OF THE BAR, BANS THAT TOTAL AREA OF VOIDS EXCEEDS 0.2% OF THE SURFACE AREA OF THE BAR, BANS THAT THE AREA MAY BETE D CONTION THAT AREADON OF THE BAR, BANS THAT THE EPONY FARRICATOR. BARS WHICH REQUES SURFACE PATCHNS IN EXCESS OF 5% OF THE TOTAL SURFACE AREA OF THE BARY WILL RESULT.
- ALL SYSTEMS FOR HANDLING COATED BARS SHALL HAVE PADDED CONTACT AREAS FOR THE BARS WHENEVER POSSIBLE. ALL BUNDLING BANDS SHALL BE PADDED AND ALL BUNDLES WHALL BE LITED WITH STRONG BACK, MULTIPLE SUPPORTS OR A PLATFORM BRIDGE SO AS TO PREVENT BAR-TO-BAR ABRASION FROM SAGS IN THE BAR BUNDLE. ALL STEEL REINFORCEMENT TO BE EPOXY COATED

CAST-IN-PLACE CONCRETE

ENGINEER OF WORK

NAME. DEGENKOLB ENGINEERS

LH

DATE

DRAWN BY R.C.E. S.5646

By: JEREMY T. CALLISTER Date: 3/22/2023

EXP:

- PROPORTION, MIX, TRANSPORT AND PLACE CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" UNLESS OTHERWISE
- CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SMILLAR TO THAT SHOWN FOR SMILLAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES AT THE
- FOLLOWING LOCATIONS: [WHERE CAST AGAINST EXISTING CONCRETE; AT WALL, COLUMN AND BEAM JOINTS; WHERE CAST EXISTING MASONRY/STONE, ETC.]
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS. UNLESS OTHERWISE
 - LCA GARNET EAK NOTIFICT WITH EXCENTION NOTIFICT WITH EXCENTION BASE NOR LARGER EAKS REPORT AND CLARMENE EXAMPLE REPORT EXCENTION AND CLARMENE EXAMPLE REPORT IN CARACTERISTIC IN CORRECTION IN CARACTERISTIC IN CORRECTION IN CORRECTI LOCATION CONCRETE PLACED AGAINST EARTH CLEAR COVER 3 INCHES 2 INCHES 1 1/2 INCHES 1 1/2 INCHES 1 1/2 INCHES 3/4 INCH 1 INCH 1 1/2 INCHES 2 1/2 INCHES

CITY APPROVED CHANGES

Description

APP'D DA

No. Date

- CONCRETE TYPES A SUDAY STRENGTH ECT = 5.000 PSI A 226 DAY STRENGTH ECT = 5.000 PSI A TYPE NORMAL VERTO 00 UNX C 200 DAY STRENGT 00 UNX C 200 DAY STRENGT 00 UNX C 200 DAY STRENGT 00 DAY STRENGT 00 DAYS C 200 DAYS 00 DAYS C 200 DAYS 00 DAYS C 200 WATER-SOLUBLE CHLORIDE ION CONTENT THAT IS CONTRIBUTED FROM THE INGREDIENTS INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND ADMIXTURES SHALL BE DETERMINED ON THE CONCRETE MIXTURE BY ASTM C1218 AT AGE BETWEEN 28 AND 42 DAYS.
- DRYING SHRINKAGE: PER ASTM C192 & C157, MEASURED AT 28 DAYS AIR DRY AGE. A. TYPICAL: 0.050 MAXIMUM. PROVIDE SHRINKAGE REDUCING ADMIXTURE WHEN SHRINKAGE TEST DATA NOT AVAILABLE.
- FLY ASH: ASTM C618, CLASS F. MINIMUM OF [25] PERCENT OF CEMENTITIOUS MATERIAL
- ADMIXTURES TO BE COMPATIBLE WITH ALL OTHER COMPONENTS IN THE MIX AND INCLUDED IN THE MIX DESIGN. WHEN USED COMPLY THE FOLLOWING:
 - AIR ENTRAINMENT: ASTM C260. WATER REDUCING, RETARDING AND ACCELERATING: ASTM C494, TYPES A THROUGH G. SHRINKAGE REDUCING: ASTM C494 & ASTM C157.
- CONTINUOUSLY MOIST CURE CONCRETE SLABS ON GRADE FOR 7 DAYS MINIMUM USING WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS OR MOISTURE RETAINING COVERS.
- LIQUID CURING COMPOUND: ASTM C309, TYPE1, CLEAR OR TRANSLUCENT. A. FOR SURFACES TO BE FINISHED, CONFIRM THAT CURING COMPOUND IS 12.
- NON-SHRINK GROUT: ASTM C1107, WITH MINIMUM COMPRESSIVE STRENGTH OF 7.000 PSI.

SHOTOPETE

- PROPORTION, MIX, TRANSPORT AND PLACE SHOTCRETE IN ACCORDANCE WITH ACI 506 2: SPECIFICATION FOR SHOTCRETE 'U.O.N. TO LERANCES FOR SHOTCRETE TO CONFORM TO ACI 117 'STANDARD SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS' FOR CAST-IN-PLACE CONCRETE:
- USE SHOTCRETE ONLY WHERE DESIGNATED ON THE DRAWINGS. NO SUBSTITUTION OF SHOTCRETE FOR CAST-IN-PLACE CONCRETE IS ALLOWED. 3 COMPLY WITH THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE AND REINFORCING STEEL SECTIONS OF THESE GENERAL NOTES, EXCEPT AS MODIFIED IN THIS SECTION.
- SHOTCRETE TYPES

LOCATION 28-DAY STRENGTH 5 000 PSI

- MAXIMUM AGGREGATE SIZE: 3/8 INCH MEAN COPE GRADE PER ACI 506 2: 2.5
- A PREQUALFICATION TEST PANEL IS REQUIRED FOR EACH NOZZLEMAN, EACH TEST PANEL TO BE 6 FEET BY 6 FEET BY 8 NCHES THICK AND TO HAVE REINFORCING STEEL SMILAT TO THE MOST CONGESTED CONDITION ON THE PROJECT. A MEAN TEST PANEL CORE GRADE IS REQUIRED FOR EACH NOZZLEMAN.
- CLEAN SUBSTRATES AND FORMS OF LOOSE OR UNSOUND MATERIAL PRIOR TO THE PLACEMENT OF SHOTCRETE. WET CEMENTITIOUS OR ABSORPTIVE SUBSTRATES AND FORMS PRIOR TO SHOOTING. DO NOT PLACE SHOTCRETE AGAINST SURFACES WITH STANDING OR RUINING WATER.
- COMPLETELY FILL AREAS AND COMPLETELY ENCASE REINFORCEMENT. REMOVE REBOUND AND OTHER LOOSE MATERIAL FROM NEW CONSTRUCTION.
- DO NOT RELISE REBOLIND OR OVERSPRAY
- FINISHED APPEARANCE / COSMETIC SHOTCRETE: IT IS THE INTENT OF THESE SPECIFICATIONS THAT THE COMPLETED FACING COSMETIC SHOTCRETE ON ANCHORED WALLS HAVE AN UNEVEN SURFACE PROFILE AND COLOR SIMILAR IN APPEARANCE TO THAT OF THE ADJACENT BLIFFS.
- KEEP SHOTCRETE CONTINUOUSLY MOIST BY DIRECT WATER APPLICATION FOR 24 HOURS AFTER SHOTTING. FOLLOW BY CURING THE SHOTCRETE WITH A FOG SPRAY OR AN APPROVED MOISTURE-RETAINING COVER, MEMBRANE, OR CURING COMPOUND UNTL 7 DAYS AFTER SHOTTING.
- LIQUID CURING COMPOUND: ASTM C309, TYPE1, CLEAR OR TRANSLUCENT. A. FOR SURFACES TO BE FINISHED, CONFIRM THAT CURING IS COMPATIBLE WITH FINISH. B. APPLY AT TWICE THE MANUFACTURER'S RECOMMENDED COVERAGE.
- STRUCTURAL STEEL

RECOMMENDED FOR APPROVAL

FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 360, AISC 303 AND AISC 340, WEI DED CONNECTIONS TO CONCORD TO AWS DL 1 AND D1 8 STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780. HOT-DIP GALVANIZE ASTM 17554 RODS IN ACCORDANCE WITH ASTM F2329.

APPROVED FOR CONSTRUCTION

SECTIONS ROLLED SHAPES: TYPE WIDE FLANGES CHANNELS, ANGLES, & OTHER ASTM A992 ASTM A36 CHANNELS, ADVANCES COLUMN BASE PLATES BRACE GUSSET PLATES BEAM SHEAR CONNECTION PLATES COLUMN CONTINUITY PLATES PLATES ASTM A572, GR 50 ASTM A36 ASTM A36 ASTM A36 COLUMN CONTINUITY PLATES BEAM STIFFENER PLATES EDGE OF DECK BENT PLATE OTHER STEEL PIPE COLD FORMED STRUCTURAL TUBING (HSS) STAINLESS STEEL SHAPES, PLATES & BARS ASTM A572, GR 50 ASTM A53 GRADE B ASTM A500 GRADE B ASTM A276, TYPE 304 ASTM AZ75, TYPE 304L ASTM A3125: GRADE A325X, F1852X ASTM A307, GRADE A ASTM A193 B8M, CLASS 1 ASTM F1554, GR55 W/ WELDABLE SUPPLEMENT S1 MACHINE BOLTS STAINLESS STEEL BOLTS ANCHOR RODS ALL-THREAD ROD AND THRU BOLTS HIGH STRENGTH ALL-THREAD ROD STANLESS STEEL ALL-THREAD ROD STANLESS STEEL ALL-TINEAD ROU HANGER ROU WELDED SHEAA STUD CONNECTORS WELDED THRADED STUDS NUTS FOR BOLTS AND MACHINE BOLTS STANLESS STEEL NUTS HARDENED WASHERS FOR BOLTS UNHARDENEET WASHERS STANLESS STEEL WASHERS BEVELED WASHERS ASTM A572, GR50 ASTM A108, GRADE 1015 TO 1020 ASTM A108, GRADE 1015 TO 1020 ASTM A108, GRADE 1015 TO 1020 ASTM A194 GR8M ASTM F484, ANSI B18.22.1 ASTM F844, ANSI B18.22.1 ASTM A276, TYPE 304 ANSI B18.23.1

ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E7XXXX MINIMUM AS APPLICABLE. ELECTRODES WITH CHARPY VANOTCH TESTS VALUES OF A MINIMUM 2010 DIGENEES FAHRENEIT MAU E POOT-POUNDS AT 70 DEGREES FAHRENHEIT ARE TO BE USED AT ALL WELDS OF THE SEISMIC FORCE RESISTING SYSTEM, SYRS, WHERE DESIGNATE O'CC ON THE ORWINGS AND THE FOLLOWING COMPLETE JOINT RENETRATION WELDS

- COMPLETE JOINT PENETRATION VELOS. ENANTE DO CUINE NO MOSTINI COMPLEXE NEL CUINCE FLANCE VELO DOUBLER ENANTE DO CUINO NO MOSTINI COMPLEXE PALET RALE PARTA DE VIELE DOUBLER ENANCE CONNECTIONS INCLUDING BRACE GUISET, BASE PLATES BEAM PRACE CONNECTIONS INCLUDING BRACE GUISET, BASE PLATES BRACE CONNECTIONS INCLUDING BRACE GUISET, BASE PLATES BRACE CONNECTIONS INCLUDING BRACE GUISET, BASE PLATES DE VIENTION VELOS. COLLECTORS SENERT TARS, FLANCE AND VELOS VELOS.

- WELDERS TO BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 WITH SUPPLEMENTAL QUALIFICATIONS PER AWS D1.8.
- WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.

ADHESIVE ANCHORS AND DOWELS

- ANCHORS AND DOWELS INSTALLED INTO CONCRETE: HILTI HIT.RE-500-V3 (CC-ESR-3914), SIMPSON STRONG-TIE SET 3G (ICC-ESR-4057) OR DEWALT PURE 110+ (ICC-ESR-3298), ALL EMBEDMENT DEPTHIS NOTED ON DRAWINGS ARE EFFECTIVE EMBEDIMENT PER MANUFACTURER.
- THE TESTING LABORATORY IS TO PERFORM TENSION TESTS ON 10% OF ANCHORS AND DOWELS INSTALLED INTO CONCRETE TO THE FOLLOWING TEST LOADS:

		TEST LO	DAD (LBS)
ROD DIA OR BAR SIZE	CMIN	ANCHOR LOCATED > CMIN & < 12" FROM EDGE	ANCHOR LOCATED ≥ 12" FROM EDGE
3/8*, #3	2"	1,300	1,600
1/2*, #4	2 1/2"	2,000	3,400
5/8*, #5	3"	2,800	4,200
3/4*, #6	4"	3,700	5,000
7/8*, #7	4 1/2"	3,700	5,000
1*, #8	5"	4,800	6,100

- ANCHORS AND DOWELS INSTALLED INTO UNREINFORCED BRICK MASONRY (URM): HILTI-NY 220 (ICC.ESP.4144) SIMPSON STRONG TE SET (ICC.ESP.4772) OR DEWALT AC1004 HY 270 (ICC-ESR-4144), SIMPSON STRONG-TIE SET (ICC-ESR-1772), OR DEWAI GOLD (ICC-ESR-4105): USE SCREENS AS SPECIFIED BY THE MANUFACTURER
- ANCHORS: ASTM A36 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANS B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE R7 THREADED RODS TO LISE ASTM A663 GRADE DH HEAVY HEX NUTS. AND ASTM F436 WASHERS
- REBAR DOWELS: ASTM 4615 GRADE 60 REINFORCING STEEL
- INSTALL ANCHORS IN ACCORDANCE WITH LATEST ICC-ESR REPORT AND MANUFACTURER INSTRUCTIONS.
- IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOI DIAMETERS DR 1 INCH WHICHEVER IS LARCER OF SOLID CONCRETE BETWEEN TH DWILE LEKS OR TIMOR, WHICHEVER IS DARGER, OF SOUND CONCRETE BETWEEN IT DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRIN GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.

EROSION CONTROL NOTES

BENCH MARK EXEMPTION CITY OF SCALM BEACH HUMEY CONTRICT FONT & SOUTH REFERENCE ON SUPERVIEW AND AND 1.2 CITY OF SCALM-SCALE BASES DIRK STANED TO U.S. 1.1 ST22, 2005 BET OF SCALE SCALE SCALE SCALE SCALE SCALE SCALE SCALE (SCALE SCALE SCAL

STORM WATER AND NON-STORM WATER DISCHARGE CONTROL: BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO MANAGE STORM WATER AND NON-STORM WATER DISCHARGES FROM THE SITE AT ALL TIMES DURING EXCAVATION AND GRADING ACTIVITIES.

THE CONTRACTOR SHALL SWEEP ROADWAYS AND ENTRANCES TO AND FROM THE SITE ON A REGULAR BASIS TO KEEP THEM FREE OF SOIL ACCUMULATION AND AT ALL OTHER TIMES DIRECTED BY THE CITY ENGINEER.

THE CONTRACTOR SHALL WATER SITE ON A CONTINUOUS BASIS TO MINIMIZE AIR BORINE DUST CREATED FROM GRADING AND HAULING OPERATIONS OR EXCESSIVE WIND CONDITIONS, AND AT ALL TIMES DIRECTED BY THE CITY ENGINEER

IN THE EVENT SILT THE DOES ENTER THE EXISTING PUBLIC STORM DRAIN SYSTEM, REMOVAL OF THE SILT FROM THE SYSTEM WILL BE AT THE CONTRACTOR'S EXPENSE

CITY OF SOLANA BEACH

GENERAL NOTES 825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075

DEL MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS

PHASE 1

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ENGINEERING DEPARTMENT

DRAWING NO

S-001

Sheet 3 of 18

DE Job Number: C1676031.00

- EROSION AND SEDIMENT CONTROL: EROSION PROTECTION SHALL BE EMPHASIZED AS THE MOST IMPORTANT MEASURE FOR KEEPING SEDIMENT ON SITE DURING EXCAVATION AND GRADING ACTIVITIES. SEDIMENT CONTROLS SHOULD BE USED AS A SUPPLEMENT TO EROSION PREVENTION FOR KEEPING SEDIMENT ON SITE.
- THE TOPS OF ALL SLOPES SHALL BE DIKED OR TRENCHED TO PREVENT WATER FLOWING OVER CRESTS OF SLOPES. THE CONTRACTOR SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE OFFICE OF THE CITY ENGINEER.

GENERAL NOTES CONT:

¥1 DEDMANENT TIEBACKS

- REPRANANCE TERMORY ROOT SHALL BE COLD STREET OF DURING STRENGT ALLY REPRANANCE TERMORY ROOT SHALL BE COLD STREET OF DURING STREET CONTINUES TO ASTRA A222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREET CONTINUES TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO STREAT 222 WITH A MIRINA ILL TRANTE TENSIES STREET OF TO MIRINA ILL TRANTE TENSIES STREET OF TO WITH A MIRINA ILL TRANTE TENSIES STREET OF TO MIRINA ILL TRANTE TENSIE
- PERMANENT TIEBACK STRANDS SHALL BE EPOXY COATED, EPOXY-FILLED IN THE INTERSTICES BETWEEN THE STRAND WIRES, GRIT-IMPREGNATED, 0.6-INCH NOM INTERSTICES BETWEEN THE STRAND WIRES, CRIT-MIPREGNATED, 0.6-INCH NO DUMETER LOW-RELAXITON STRAND, CONSISTING OF 7 STRESS-RELIEVED ST WIRES. THE STRAND SHALL BE IN ACCORDANCE WITH ASTM A882. THE STEEL STRAND BENEATH THE COATING SHALL HAVE A IMMINUM UTIMATE TENSILE STRENGTH OF 270 KSI, IN ACCORDANCE WITH ASTM A416, PLUS SUPPLEMENT: FOR LOW-RELAXATION WIRE AND LOW-RELAXATION STRAND. WIRES SHALL BE FULL LENGTH WITHOUT SPLICES OR COUPLERS, UNKINKED, AND FREE FROM N OR ABRASIONS. USE FLOFIL STRANDS, SUPPLIED BY INSTEEL INDUSTRIES, INC., OR APPROVED EQUIVALENT FOR PERMANENT TIEBACKS.
- PERMANENT TIEBACK ASSEMBLIES SHALL BE DOUBLE CORROSION PROTECTED OVER TIE ENTRE LENGTH OF THE ANCIENE. DOUBLE CORROSION PROTECTED CONTROL OF THE ANCIENE. DOUBLE CORROSION PROTECTED CONTINUOUS ROUT! OVER TIE HUNDROED LENGTH THE BEARSTITANDAS SHALL NOMULLY GRASED AND SHEATHED TO PREVENT BONDING. CORRUGATED PE SHEATHING SHALL BE PROVIDED DOUBLE THE THE ARCS. TO ANDI
- ANCHORAGES SHALL BE CAPABLE OF DEVELOPING NO LESS THAN 95% OF THE MINIMUM UI TIMATE TENSILE STRENGTH OF THE TENDONS AND SHALL CONFORM TO 4. MINIMON OL MINUTE TENSILE STRENGTH OF THE TENDORS, AND SPECIAL COMPONENT THE STATICS STRENGTH REQUIREMENTS OF THE PTI 'GUIDE SPECIAL COMPONENT POST-TENSIONING MATERIALS'. AT BARS, ANCHOR HEADS SHALL BE DESIGNED TO ACCEPT THE BAR LOADS AND TRANSFER THE ENTRE LOAD ONTO THE BEARING PLATE. AT STRANDS, ANCHOR HEADS SHALL BE DESIGNED TO ACCEPT INDIVIDUAL STRAND LOADS, SEAT THE WEDGES, AND TRANSFER THE ENTIRE TENDON LOAD ONTO THE BEARING PLATE
- WEDGES FOR STRAND TIEBACKS SHALL BE BITE-THROUGH WEDGES, SPECIFICALLY 5. DESIGNED AND MANUFACTURED FOR EPOXY COATED STRAND. REMOVAL OF EPOXY COATING TO ACCOMMODATE CONVENTIONAL WEDGES IS NOT ALLOWED.
- CENTRALIZERS AND SPACERS SHALL BE STEEL OR PLASTIC. WOOD SHALL NOT BE USED. CENTRALIZERS SHALL BE DESIGNED TO WITHSTAND LATERAL LOADS FROM PROPERS AND REPORTAL LEED SHALL NOT RESTRET THE PASSAGE COOLUT, AN SHALL BE ATTACHED SO THEY ARE RESTRANED FROM MOVING UP OR DOWN THE BARSSTRANDS DURNE INSTALLATION OR GROUTING.
- THE SPACERS AND CENTRALIZERS SHALL MEET THE FOLLOWING ADDITIONAL CRITERIA FOR STRAND TIEBACKS:
- SPACERS SHALL SEPARATE THE TENDON STRANDS SO THAT THE SURFACE OF EACH STRAND CAN BE SURROUNDED BY GROUT AND SO THAT INDIVIDUAL STRANDS HAVE CLEARANCES OF NO LESS THAN 0.5 INCHES FROM EACH OTHER.
- CENTRALIZERS SHALL PROVIDE A MINIMUM 0.5 INCHES OF GROUT COVER BETWEEN THE OUTER PERIMETER ROW OF TENDON STRANDS AND THE BOREHOLE WALL.
- WHERE PE SHEATHING IS PRESENT, CENTRALIZERS SHALL PROVIDE 0.5 INCLES OF CROUT COVER BETWEEN THE STRANDS AND THE SHEATHING C. AND AT LEAST 0.5 INCHES OF GROUT COVER BETWEEN THE PE SHEATHING AND THE BOREHOLE.
- ALL METAL COMPONENTS OF THE BAR/STRAND ANCHORAGE SYSTEM SHALL BE COMPATIBLE WITH RESPECT TO THEIR CORROSION POTENTIAL AND THE SOLDIER NECTION
- HANGLAG, SHEPING, AND STORAGE SHULL BE CONJUCTED IN MANNER THAT PROTECTS ALL DIAS AND TENDOL ASSERIESE AND MARDINAR FROM PROTECTS ALL DIAS AND TENDOL ASSERIESE AND MARDINAR FROM THAT AND A SHARP AND A START AND A START AND A START CONTRACTOR SHULL BE TAGOD AND DENTIFICIBLE AT ALL TIMES. THE CONTRACTOR SHULL PROVIDE PROFER STORAGE FACILITIES ON SITE FOR THE THE BETWEND DEVICENT AND SHALL PROTECT PROX-STORAGE FACILITIES SHALL BE DRY AND SHALL PROTECT PROX-STORAGE FACILITIES OR STORAGE WILL BE SUFFICIENT CAUSE FOR REJECTION OF TENDONS.
- THE DRAFTSCHOOL SHALL BE HANDLED AND POTECTED DURING THER HEARTON THE DRAFTSCHOOL SHALL BE HANDLED AND POTECTED DURING THER HEARTON BENDE AND POTECTES THE EPOXY COLTING AND OTHER CORROSON PROTECTON LELENSTIS. SPECIAL LASSAUES SHALL BE TAKEN TO PERVIN ARARGON OF THE TENDON SHALL BE HTTED WITH A ROTECTIVE NOSE CONE PROOF TO NESISTEN TO KEEP NONYDUX. STRAND TYPE FROM ACTIVING ON THE DREFTLE WALLING TENDON SHALL BE HTTED WITH A ROTECTIVE NOSE CONE PROOF TO NESISTEN TO
- THE CONTRACTOR SHALL CUT THE BAVEFENDING FRANCI ENGINE NOTTINUMO EXPORT THE AND FRANCISCO FRANCI 10.
- STRUCTURAL GROUT FOR TIEBACK HOLES SHALL CONTAIN A MINIMUM OF 10 SACKS OF CEMENT PER CUBIC VARD AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 7 JON'S, GROUT SHALL BE PUMPED INTO PLACE FROM THE BACK OF THE HOLE TOWARD THE FROM. T PERMANENT TIEBACKS SHALL BE PLILLY GROUTED WITH STRUCTURAL GROUT FROM END TO END. 11.

YIL TIERACK INSTALLATION

3.

- TEBACK DEFAUSA AND PERFORMANCE SHALL BE THE RESPONSELLITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ABE THE RESPONSELLITY OF THE SUITALE TOR THE STIEL AND THE PRULET CONSISTENT WITH THE CONTRACT. RESPONSE THE ADD THE PRULET CONSISTENT WITH THE CONTRACT RESPONSELLITY OF THE PROCEEDINGS SHALL BE SPECIAL TO DEVELOP THE ROUCTED THE ALTERNITY ALL DETERMINED BASED ON IN STIT SETING. UITMATES, THE BONED LATERNITY ALL DETERMINED BASED ON IN STIT SETING. UITMATES, THE BONED BASET SHALL BE SPECIAL TO DEVELOP THE ROUCTED TECTIONS AND THE BONED ADD ADJISTNEHTS FRA ACTUAL FELD CONDITIONS ARE THE SOLE RESPONSELITY OF THE CONTRACTOR. TIEBACK DETAILS AND PERFORMANCE SHALL BE THE RESPONSIBILITY OF THE
- TIEBACK HOLES SHALL BE EITHER DRILLED WITH CASING OR THE GEOTECHNICAL ENGINEER MAY PERMIT NO CASING BASED ON FIELD OBSERVATIONS. CONTRACTOR TO COORDINATE WITH GEOTECHNICAL ENGINEER REGARDING ALTERNATIVE DILLING PROCEDURES AT ADVERSE CONDITIONS.
- HOLES DRILLED FOR TIE-BACK ANCHORS SHALL BE DONE WITHOUT DETRIMENTAL LOSS OF GROUND, SLOUGHING OR CAVING OF MATERIALS, AND WITHOUT REVIOUSLY INSTALLED SHORING ME DRILLING SHALL BE REPEORMED WITH CARE IN VICINITY OF POTENTI
- DISTRUCTIONS. CONTROL WITH OWNER IN VIGNIT OF FUTENTIAL OBSTRUCTIONS. CONTROL USE CARE IN VIGNIT OF FUTENTIAL ANGLE. TIEBACK LENGTHS, ANGLES, AND LOCATIONS HAVE BEEN COORDINATED TO THE FULLEST EXTERNIT POSSIBLE TO AVOID OBSTRUCTIONS HOWEVER, IF OBSTRUCTIONS ARE ENCOUNTERED PRIOR TO COMPLETION OF DRILLING, THE HOLE SHALL BE ABANDONED AND FILLED WITH NEAT CEMENT GROUT EP EOR DIRECTION & NEW HOLE WITH THE ADJUSTED SHALL BE DRILLED.
- ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE HOLE PRIOR TO PLACEMENT OF 5. THE TIEBACK. WHERE TIEBACKS EXTEND BELOW WATER TABLE, WATER MAY REMAIN IN THE CASED HOLD PROVIDED GROUT IS PLACED BY A GROUT TUBE EXTENDING TO THE BOTTOM OF THE HOLE.
- 6.
- INSTALL CROUT OVER THE FULL LENGTH OF THE TIEBACK. GROUTING METHODS SHALL ENSURE THAT ALL VOIDS ARE FILLED AND THAT TIEBACKS MEET TESTING CRITERIA. ALL TIEBACKS SHALL BE EQUIPPED WITH POST GROUTING TUBES. POST GROUTING FORCEDURES SHALL BE USED AT ALL TIEBACKS.
- GROUT MIXER SHALL PRODUCE GROUT FREE OF LUMPS AND INDISPENSED CEMENT. GROUTING EQUIPMENT SHALL BE SIZED TO ENABLE THE GROUT TO BE PUMPED IN A CONTINUOUS OPERATION. THE MIXER SHALL BE CAPABLE OF CONTINUOUSLY AGITATING THE GROUT.
- 10. CRITERIA
 - 11. TIEBACK TESTING MAY COMMENCE 3 DAYS AFTER POST-GROUTING OPERATIONS PROVIDED GROUT COMPRESSIVE STRENGTH HAS REACHED 3000 PSI.
 - А.

 - PROOF TEST EVERY TIEBACK BY STRESSING TO TEST LOAD SHOWN IN THE SCHEDULE ON S-541 AND MAINTAINING THAT LOAD FOR 30 MINUTES. PROOF TEST IS SUCCESSFUL IF THE CRITERIA FOR PERFORMANCE TESTS, FOUND IN THE TIEBACK TESTING SECTION OF THESE GENERAL NOTES, ARE MET.
 - TEMPORARILY STRESS ANCHOR TO MAXIMUM 80% OF GROSS ULTIMATE TENSILE STRENGTH (GUTS) TO COMPENSATE FOR WEDGE SEATING LOSSES. ANCHOR SYSTEMS SUPPLIER TO PROVIDE STRESSING DATA SHEET PRIOR TO STRESSING.
 - IE THE TIEBACK FAILS TO MAINTAIN THE TEST LOAD FOR TEN MINI ITES, LISE DOST
 - \mathbf{r} : THE TIEBACK FARLS TO MAINTAIN THE TEST LOAD FOR TEN MINUTES, USE POST GROUTING ROCCULRES TO REPART TIEBACKS. AT USE SHALL BE PROVIDED WITH THE TIEBACK FOR SUCH PURPOSES. AFTER POST GROUTING THE TIEBACKS SHALL BE REF-TESTED. IF THE TIEBACK STILL FAILS, AN ADDITIONAL TIEBACK SHALL BE ADDED AT THE DIRECTION OF THE SHORING ENGINEER AT THE CONTRACTORS EXPENSE.
 - THE MINIMUM PRESSURE FOR POST GROUTING SHALL BE 300 PSI, SUBJECT TO CONTROL TO PREVENT EXCESSIVE HEAVE OR FRACTURING. POST GROUTING

YIII TIERACK TESTING

- 4 REVIEW MILL CERTIFICATIONS FOR ALL TIEBACK STEEL.
- PERFORM MATERIAL TESTING OF TIEBACKS. TWO SAMPLES OF EACH HEAT SHALL BE TENSION TESTED.
- 3. PERFORM COMPRESSION TESTS OF TIEBACK GROUT USED ON A GIVEN DAY. PREPARE 4 CYLINDERS OR CUBES AND TEST TWO SAMPLES AT A DAYS AND 1 SAMPLE AT 7 DAYS. ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING, IF REQUIRED.
- VISUALLY INSPECT FACH TIERACK ASSEMBLY IMMEDIATELY DRIOP TO INSERTION IN VEIAULY INSPECT EACH TERACK ASSEMILY AMLEDATELY PROR TO INSERTION IN THINLEL. THE INSPECT AND THE AND ALL AND
- PROOF-TEST EVERY TIEBACK, UNLESS OTHERWISE NOTED. REFER TO TIEBACK INSTALLATION SECTION OF THESE GENERAL NOTES FOR ADDITIONAL INFORMATION INSTALLATION SECTION OF THESE GENERAL NOTES AND PTI MANUAL FOR ADDITIONAL REQUIREMENTS.
- PERFORMANCE-TEST TWO PERCENT OF THE TIEBACKS, OR A MINIMUM OF THREE TIEBACKS, WHICHEVER IS GREATER. THE FIRST PRODUCTION TIEBACK SHALL BE PERFORMANCE TESTED. THE ENGINEER SHALL SELECT THE REMAINING TIEBACKS 6 S TO BE PERFORMANCE TESTED. PERFORMANCE TESTING OF TIEBACKS SHALL BE IN ACCORDANCE WITH PTI (2004) AND THE FOLLOWING PROCEDURES:
 - THE PERFORMANCE TEST SHALL BE MADE BY INCREMENTALLY LOADING AND UNI OADING THE TIFRACK IN ACCORDANCE WITH THE SCHEDULE ON S/641 a. UNLOADING THE TEBACK IN ACCORDANCE WITH THE SCHEDULE ON 5-41. THE LOAD SHALLE RANSED FROM ONE INCREMENT TO ANOTHER MERIDIALLY AFTO TA INDESCHIDTING ADMICE WITH CTONE OF SHALL MORE MONTELY AFTO TA INDESCHIDTING ADMICE WITH CTONE OF SHALL DISCHIDTING ADMICE ADMICE ADMICE ADMICE ADMICE ADMICE MOVEMENT RECORDING SHALL BE AFREE STANDING TRIPOD-MOLINTED DIAL GUIJE WITH A PRECISION OF 2010 INCHES.
- THE MAXIMUM LOAD IN A PERFORMANCE TEST SHALL BE HELD FOR 10 MINUTES. THE LOAD-HOLD PERIOD SHALL START AS SOON AS THE MAXIMUM LOAD IS ADDI ED ADDI THE TIEBACK MOVEMENT SHALL BE MEASINED AND RECORDED AT 1 MINUTE, 2, 3, 4, 5, 6, AND 10. IF THE ANCHOR MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.04 INCHES, THE MAXIMUM LOAD SHALL BE HELD FOR AN ADDITIONAL 50 MINUTES. IF THE LOAD HOLD IS EXTENDED, THE ANCHOR MOVEMENT SHALL BE RECORDED AT 15, 20, 30, 40, 50, AND 60 MINUTES. IF AN ANCHOR FAILS IN CREEP, RE-TESTING WILL NOT BE
- A TIEBACK PERFORMANCE TEST WITH A 10 MINUTE LOAD HOLD IS ACCEPTABLE IF BOTH OF THE FOLLOWING ARE MET: c .
 - THE TIEBACK CARRIES THE MAXIMUM LOAD WITH LESS THAN 0.04 INCHES OF MOVEMENT BETWEEN 1 AND 10 MINUTES.
 - THE TOTAL MOVEMENT AT THE MAXIMUM LOAD EXCEEDS 80 PERCENT OF THE THEORETICAL ELASTIC ELONGATION OF THE TIEBACK UNBONDED LENGTH.
- IF THE LOAD HOLD IS EXTENDED, THE TEST IS ACCEPTABLE IF THE TIEBACK CARRIES THE MAXIMUM LOAD WITH LESS THAN 0.04 INCHES OF MOVEMEN BETWEEN 6 AND 60 MINUTES AND SATISFIES ITEM c.2. ABOVE.
- LOCK OFF: SUCCESSFULLY TESTED TIEBACKS SHALL BE LOCKED OFF AT LEAST AT THE DESIGN LOAD OR GREATER (UNLESS OTHERWISE DIRECTED BY THE ENGINEER)
- ANCHORS SHALL BE STRESSED STRAIGHT AND TRUE. KINKING OR SHARP CURVATURE IN THE ANCHORS UNDER TENSION SHALL BE CAUSE FOR REJECTION 9
- TIEBACKS THAT ULTIMATELY FAIL TO MEET THE TESTING CRITERIA MAY BE RETESTED AT A LOWER LOAD AND ASSIGNED A VALUE FOLIAL TO THAT LOAD IF THE ENGINEER APPROVES SUCH AN APPROACH. AN ADDITIONAL TO THAT LUAD IF THE ENGINEER MAKE UP THE LOAD DIFFERENCE. THE LOCATION OF THE ADDITIONAL TIEBACK WILL BE DETERMINED BY THE ENGINEER. 10.
 - IF A TIEBACK CONTINUES TO FAIL A LOAD TEST, THE TIEBACK MY BE POST-GROUTED AND RETESTED. IF TIEBACK FAILS AFTER SECOND POST-GROUT, TIEBACK IS

- VIV STRUCTURAL TESTS INSPECTIONS AND OBSERVATIONS
- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM TESTS AND INSPECTION.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH T REQUIREMENTS OF THE CHAPTER 'STRUCTURAL TESTS AND INSPECTIONS' OF THE APPLICABLE CODE. REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED THE SPECIFICATIONS.
 - REINFORCING STEEL CAST-IN-PLACE CONCRETE
 - REPAIR MORTARS TIEBACKS p.
- XV. MONITORING
- ESTABLISH CONTROL POINTS ALONG THE EXISTING SEAWALL PRIOR TO START OF EXCAVATION OR CONSTRUCTION. MONITOR ANY MOVEMENT OF SEAWALL DURING TRENCHING OR EXCAVATIONS WORK NEAR THE SEAWALL. NOTIFY SEOR OF ANY MOVEMENT.
- XVI. DESIGN CRITERIA

1.

1.

- 1. APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE
- GRAVITY LOADS
- GRAVITY LOADS: A. DEAD LOADS VARY BASED ON ACTUAL WEIGHTS B. LIVE LOADS: a. STAIRS: 100 PSF
- SHORING DESIGN PARAMETERS (PER GEOTECH REPORT) TIEBACKS ALLOWABLE SKIN FRICTION: 21 PSI
- DESIGN ASSUMPTIONS REGARDING SHARING OF LOAD BETWEEN NEW AND EXISTING TIGRACKS
- TIEBACKS A. New TIEBACKS AT STRAIGHT WALL SEGMENTS ARE DESIGNED TO RESIST 75% OF THE LATERAL SOIL LOADS (WITH THE EXISTING TIEBACKS RESISTING 25%) B. NEW TIEBACKS AT THE CURVED WALL SEGMENT ARE DESIGNED TO RESIST 50%) CH THE LATERAL SOIL LOADS (WITH SYSTING TIEBACKS RESISTING 50%).
- XVII. PROJECT SEQUENCING
 - PRIOR TO ALL REPAIR WORK. CONTRACTOR TO A. BRACE WALL AS REQUIRED
 INSTALL ADEQUATE PROTECTION TO PREVENT SEA WATER FROM CONTACTING
 WALL DURING REPAIRS.
- SEQUENCE OF WALL REPAIRS ARE AS FOLLOWS: 2.
 - DEMOLITION, REPAIR, AND INSTALLATION OF WALL REBAR PER DETAIL 6/S-511. CORE THROUGH (E) WALL AND INSTALL TIEBACK. SHOTCRETE INFILL EXCEPT FOR AREA OF TIEBACK BLOCKOUT PER DETAIL A. B.
- 715-541 OF 805-541. TEST TIEBACKS PER XIII OF GENERAL NOTES. INFLL TIE-BACK BLOCKOUT WITH CONCRETE OR NON-SHRINK GROUT CONTRACTOR MAY SUBMIT ALTERNATE SEQUENCE FOR EOR REVIEW.

📥 Degenkolb DEGENKOLB ENGINEERS 225 Broadway, Suite 1325 San Diego, CA 92101 619.515.0299 PHONE ww.degenkolb.com DE Job Number: C1676031.00

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ts\2	SQLANA BEACH FIRE DEPARTMENT	SANTA FE IRRIGATION DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
ty Projec	RV-	REVIEWED BY:	By: JEREMY T. CALLISTER Date: 3/22/2023 JTB NAME: DEGENKOLB ENGINEERS	Description	No. Date By:	Date:	By:Date:	DESCRIPTION: CITY OF SOLANA BEACH SURVEY CONTROL POINT NO. 2001 PER RECORD OF SURVEY MAP NO, 18971 - 25° CITY OF SOLANA BEACH BRASS DISK STAMPED 'SOLB-1, LS 7322, 2005' SET ON CONCRETE DRAINAGE INLET ON THE EAST SHOULDER OF HIGHWAY	GENERAL NOTES 825 SOUTH SIERRA AVENUE, S DEL MAR BEACH CLUB SEAWALL	OLANA BEACH, CA 92075	S-002
≶.	FIRE CHIEF DATE:	DISTRICT REP. DATE	DRAWN BY R.C.E. <u>\$5646</u> EXP:		By:	Date:		101, 0.1 MILE SOUTH OF LOMAS SANTA FE DRIVE. ELEVATION: 71.450 FEET (NAVD88)	PHASE	1	Sheet 4 of 18

2

- DO NOT INSTALL TIEBACK ROD UNTIL INSPECTOR OF RECORD AND GEOTECHNICAL ENGINEER HAVE VIEWED AND APPROVED THE HOLE. ь.
- CONTRACTOR SHALL RECORD GROUT PRESSURE AND QUANTITY OF GROUT PLACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REGROUTING, REDRILLING, OR REPLACEMENT OF TIEBACKS THAT FAIL TO MEET TEST
- 12. AFTER THE HIGH STRENGTH GROUT HAS ACHIEVED 3000 PSI, THE TIEBACK SHALL BE STRESSED IN THE FOLLOWING MANNER:

- PERFORMANCE TEST SELECT TIEBACKS IN ACCORDANCE WITH THE TIEBACK TESTING SECTION OF THESE GENERAL NOTES. В.
- C.
- D.
- ADJUST LOAD TO THE LOCK LOAD SHOWN IN THE TIEBACK SCHEDULE AND SECURE ANCHORAGE DEVICES. 13
- SWALT TAKE PLACE AFTER INFLACESSIVE INFORCE UNINGS FOST INFORM SWALT TAKE PLACE AFTER INFLA GROUT HAS SET FOR 24 HOURS. POST 66 SWALL OCCUR IN THE BONDED LENGTH ONLY. THE POST-GROUT PRESSURE BE SUFFICIENT TO FRACTURE THE INTIAL GROUT HAS THE FOST AFTER SWALL REDUCED TO 300 PSI. THE CONTRACTOR SHALL DETERMINE THE GUANTITY GROUT TO BE PLACED AND THE NUMBER OF TIMES TO POST GROUT.

B 8 1.35:14 PM 23 I VW\:C 9.

ABBREVIATIONS	<u>1</u>					REFERENCE SYMBOLS	PLAN SYMBOLS		MATERIAL SYMBOLS
(E)	EXISTING NUMBER	FT FTG, FTGS	FOOT OR FEET	RFG	ROOFING ROUGH OPENING	DETAIL/SECTION	METAL DECK & FILL		
#	NUMBER AND	FTG, FTGS	FOOTING, FOOTINGS	RO RSJ	ROUGH OPENING ROLLED STEEL JOIST	SECTION NUMBER	METAL DECK & FILL	ORIENTATION OF METAL	EARTH, UNDISTURBED
@	AT	GA GALV	GAUGE			DRAWING SHEET NUMBER, HYPHEN INDICATES SAME SHEET	Ī	DECK	
Ø	DIAMETER OR ROUND DEVELOPMENT LENGTH	GALV	GALVANIZED GILLIA AM	S.A.D. S.M.D.	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS SEE MECHANIAL DRAWINGS	HYPHEN INDICATES SAME S3.1 SHEET	112-	CONCRETE FILL	EARTH, COMPACTED
8dh	HOOK DEVELOPMENT LENGTH	GL GLB GR	GLU-LAM BEAM	SCHED SECT	SCHEDULE	Y	••{{}}		
ts .	LAP SPLICE LENGTH	GR GRND	GRADE GROUND	SECT SEOR	SECTION STRUCTURAL ENGINEER OF RECORD	LINE OF SECTION CUT DIRECTION OF VIEW	<u>v</u> - v	EXTENT TO EDGE OF \$1 AB OD WALL TWO	ROCK FILL OR GRAVEL
AA	ADHESIVE ANCHOR	GYP	GYPSUM	SEDR	SEISMIC FORCE RESISTING SYSTEM	DIRECTION OF VIEW	s#/ T	EXTENT TO EDGE OF SLAB OR WALL, TYP. SLAB TYPE, SEE SHEET NOTES FOR DETAIL REFERENCE	GROUT OR SAND
AA AB	ADHESIVE ANCHOR ANCHOR BOLT			SFRS SHT SHTG	SHEET	DETAIL	X	DETAIL REFERENCE	GROUT OR SAND
ABV	ABOVE ASPHALT CONCRETE	HDG	HOT DIPPED GALVANIZED	SHTG SIM	SHEATHING SIMILAR	DETAIL NUMBER			CONCRETE (NEW)
ADDL	ADDITIONAL	HDR HK, HKS	HEADER HOOK, HOOKS	SIM	SLOPE	DRAWING SHEET NUMBER, HYPHEN INDICATES SAME SHEET		SINGLE ARROW INDICATES	CONCRETE (NEW)
ADJ	ADJACENT	HORIZ, (H)	HORIZONTAL	SL SMF	SPECIAL MOMENT FRAME	S5.2 SHEET		EDGE OF DECK	CONCRETE (EXISTING)
AGGR	AGGREGATE ALTERNATE	HP	HIGH POINT HIGH STRENGTH BOLTS	SMS SOG	SHEET METAL SCREW SLAB ON GRADE	LINE OF SECTION CUT	CONCRETE FILL		CONCRETE (EXISTING)
ALUM	ALUMINUM	HSB HSS	HOLLOW STRUCTURAL SECTION	SP	STRUCTURAL PLYWOOD	DIRECTION OF VIEW		CONCRETE SLAB OR WALL	PRECAST CONCRETE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HT	HEIGHT	SPEC, SPECS	SPECIFICATION, SPECIFICATIONS SPECIAL PLATE SHEAR WALL	DIRECTION OF VIEW			PRECAST CONCRETE
APPROX	APPROXIMATE ANCHOR ROD	ID	INSIDE DIAMETER/DIMENSION	SPSW SQ SS STAG	SQUARE		(i) × -	EXTENT TO EDGE OF SLAB OR WALL, TYP.	STEEL
AR ARCH ASPH	ARCHITECTURAL / ARCHITECT	INFO	INFORMATION	SS	STAINLESS STEEL	S6.3 AREA OF DETAIL		OR WALL, THE	STEEL
ASPH	ASPHALT AMERICAN SOCIETY for TESTING and MATERIALS	14	JOIST HANGER	STAG	STAGGER or STAGGERED STANDARD	$\mathcal{O}(1)$	\bigcirc		CONCRETE, ELEVATED OR
AWG	AMERICAN WIRE GAUGE	JST, JSTS	JOIST, JOISTS	STIF	STIFFENER			SINGLE ARROW INDICATES	DEPRESSED
	BOTTOM OF	JT	JOINT	STAG STD STIF STIR STL STRUCT	STIRRUP OR STIRRUPS STEEL	DETAIL PLAN OR ELEVATION	×.	EDGE OF CONCRETE	MASONRY (BRICK / CMU)
в. О. BF	BOTH FACES	ко	KNOCK-OUT	STL	STEEL STRUCTURAL	AREA OF ENLARGED			KXXXXXX MASONRY (BRICK / CMU)
BF	BOTH FACES BRACED FRAME			SUB	SUBSTITUTE	PLAN OR ENLARGED ELEVATION	FLOOR DEPRESSIONS		PLYWOOD
BLDG BLK, BLKG BLW	BUILDING BLOCK OR BLOCKING	L LEV	ANGLE	SUB SUSP SYMM	SUSPENDED SYMMETRICAL		FLOOR DEPRESSIONS		PLYWOOD
BLW	BELOW	LIH	LEVEL LONG LEG HORIZONTAL				/	DEPTH OF DEPRESSION OR STEP IN SLAB	GLB
	DEAM DEAMS	LLV LOC LONGIT		T&B	TOP AND BOTTOM	·K3			LLLLLL GLB
BN BOF	BOUNDARY NAILING BOTTOM OF FOOTING	LOC	LOCATION	T&B T&G T.O.	TONGUE and GROOVE TOP OF	\$5.1		EXTENT OF DEPRESSION IN	DEMO
BOT	BOTTOM	1 P	LOW POINT	тнк	THICK	SINGLE ELEVATION	X-X-	EXTENT OF DEPRESSION IN SLAB. S.A.D. FOR DIMENSIONS	[DEMO
BRBF	BUCKLING RESTRAINED BRACE FRAME	LT LWC	LIGHT LIGHTWEIGHT CONCRETE	THK THRD THRU	THREADED				
RS	BEARING BOTH SIDES			TN	THROUGH TOE NAIL	DIRECTION OF VIEW			
BSMT	BASEMENT BETWEEN	MAX MB	MAXIMUM	TN TOC TOF	TOE NAIL TOP OF CONCRETE	1 ELEVATION NUMBER			
BTWN BW	BETWEEN BOTH WAYS	MB	MACHINE BOLT	TOF		S3.1			
	BUINWAIG	MECH MEP MEZZ	MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS	TOS TOW	TOP OF STEEL TOP OF WALL	DRAWING SHEET NUMBER,	SHEAR CONNECTIONS		
с	CHANNEL	MEZZ	MEZZANINE	TR	TREAD	HYPHEN INDICATES SAME SHEET	OTERA CONNECTIONS		
CIP	CAST IN PLACE CONSTRUCTION JOINT	MF MFR MIN MISC	MOMENT FRAME MANUFACTURER	TYP	TYPICAL		I	TYPICAL SHEAR CONNECTION	
CJP	COMPLETE JOINT PENETRATION	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED	(1)	H		
CL	CENTERLINE	MISC	MISCELLANEOUS	UON URM	UNREINFORCED MASONRY	\bigcirc \forall	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		
CLG	CEILING CLEAR	MTD MTL	MOUNTED METAL	VENT	VENTILATE	(A)— - — (A)	Ĩ→		
CMU	CONCRETE MASONRY UNIT			VERT, (V)	VERTICAL	\smile	' سل		
COL	COLUMN	NF	NEAR FACE	VIF	VERIFY IN FIELD		MOMENT CONNECTIONS		
CONC	CONCRETE	NF NIC NOM	NOT IN CONTRACT NOMINAL (DIAMETER)	W or WF	WIDE FLANGE	LEVEL LINE			
CONSTR	CONSTRUCTION	NS NTS	NEAR SIDE	W/	WITH		I)	MOMENT RESISTING BEAM-COLUMN CONNECTION SEE DETAILS	
CONT	CONTINUOUS	NTS NWC	NOT TO SCALE NORMAL WEIGHT CONCRETE	W/O WD	WITHOUT		HF		
CIR	COUNTERSINK CENTER	NWC	NURWAL WEIGHT CONCRETE	WP	WOOD WORK POINT	 	Q►→		
		OBF	ORDINARY BRACED FRAMES	ws	WOOD SCREW	INDICATES HEIGHT ABOVE	Ĩ⊷		
d DBA	PENNY (NAIL SIZE)	OC OD	ON CENTER	WS WT WWM	WEIGHT/TEE SECTION WELDED WIRE MESH		5		
DBL	DEFORMED BAR ANCHOR DOUBLE	OD	OUTSIDE DIAMETER OPPOSITE HAND			WORK POINT	COLUMNS	WIDE-FLANGE COLUMN. SEE	
DEMO	DEMOLITION	OPH OPNG OPP	OPPOSITE HUND OPPOSITE	X HVY	EXTRA HEAVY	WP		COLUMN SCHEDULE	
DET, DETS DIA, DIAM	DETAIL, DETAILS DIAMETER	OPP	OPPOSITE	X STR XX HVY	EXTRA STRONG DOUBLE EXTRA HEAVY	WORK POINT OF CONNECTION, POINT WHERE FORCES ARE RESOLVED	I	THE COULD REF COULD	
DIA, DIAM DIAG	DIAGONAL	P-T	POST-TENSION	XX HVY XX STR	DOUBLE EXTRA HEAVY DOUBLE EXTRA STRONG	RESOLVED	0-	TUBE COLUMN, SEE COLUMN SCHEDULE	
DIM, DIMS	DIMENSION, DIMENSIONS	PC, PCS	PIECE, PIECES			REVISION	-		
	DISTANCE DECK OR DECKING	PCC PERP PJP PL	PRECAST CONCRETE PERPENDICI II AR				BEAM-BEAM MOMENT CONNE	CTION	
		PJP	PARTIAL JOINT PENETRATION			REVISION NUMBER- SEE REVISION HISTORY ON	DEAM-DEAM MOMENT CONNE		
DO	DOWN DITTO	PL	PLATE			TITLE BLOCK OF EACH SHEET		BEAM TO BEAM MOMENT CONNECTION PER DETAILS	
DP DS DSA	DEEP DIAGONAL SHEATHING	PLYWD	PLYWOOD PRESSURE TREATED			Sur Star			
DSA	DIAGONAL SHEATHING DIVISION OF THE STATE ARCHITECT	PT PTN	PRESSURE TREATED PARTITION			KEY NOTE	T		
DWG, DWGS DWL, DWLS	DRAWING, DRAWINGS DOWEL, DOWELS								
DWL, DWLS	DOWEL, DOWELS	R REBAR	RADIUS REINFORCING BAR			(1)	BEAM PENETRATIONS		
EA	EACH	REF	REFERENCE REINFORCING			SEE LIST OF NOTES ON EACH SHEET		VERT x HORIZ WEB OPENING	
EBF EF EJ	ECCENTRIC BRACE FRAME EACH FACE	REINF	REINFORCING REQUIRED				10"x18" (-8")	CENTERLINE OF OPENING TO TOP OF STEEL	
EJ	EXPENSION JOINT	REQD	REVISION			CENTER POINT OF CURVE	TYPE A-1	STEEL	
	ELEVATION	·					~	WEB OPENING TYPE, SEE DETAILS	
EL	ELECTRICAL					CURVE TO BE LOCATED RADIUS OF CURVE		DETAILS	
	FLEVATOR								
	ELEVATOR EMBEDMENT					CENTER POINT OF CURVE	SLAB OPENING		
	ELEVATOR EMBEDMENT EDGE NAILING					CENTER POINT OF CURVE	SLAB OPENING	LIMITS OF SLAB OPENING	
	ELEVATOR EMBEDMENT EDGE NAILING EDGE OF SLAB					REFERENCED ELEVATION	SLAB OPENING	LIMITS OF SLAB OPENING	
ELEC ELEV EMBED EN EOS EQ EQUIP	ELEVATOR EMBEDWENT EDGE NAILING EDGE OF SLAB EQUAL EQUIPMENT					CENTER POINT OF CURVE			
ELEC ELEV EMBED EN EOS EQ EQUIP ES	ELEVATOR EMBEDMENT EDGE NAILING EDGE OF SLAB EQUAL EQUIPMENT EACH SIDE					REFERENCED LEVATION TOW DESCRIPTION OF REFERENCED	SLAB OPENING BRACED FRAME OR DIAGONA	LBRACE	
ELEC ELEV EMBED EN EOS EQ EQUIP ES EW EXCAV	ELEVATOR EMBEDMENT EDGE VALING EDGE OF SLAB EQUA EQUA EQUA EQUA EQUA EQUA EQUA EQUA					REFERENCED ELEVATION TOW DESCRIPTION OF REFERENCED ELEVATION OF POINT ELEVATION OF POINT			
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ELEC ELEV EMBED EN EOS EQ EQUIP ES EQUIP EXCAV EXCAV EXCP EXCAV EXCP FDN	ELEVATOR BelEGMANT BERGE AV EDGE AV EDGA EDGA EDGA EDGA EDGA EDGA EDGA EDGA					REFERENCED ELEVIATION TOW DESCRIPTION OF REFERENCED PONT ELEVIATION OF PONT ABOVE DATUM	BRACED FRAME OR DIAGONA	LBRACE BRACE ABOVE	
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ELEC ELEV EMBED EOS EQUIP ES EQUIP ES EW EXCAV EXAV EXT FDN FF FIN FLR, FLRS	ELEVATOR ELEVATOR BEELEVARY EDECE NULLANDA					REFERENCED ELEVIATION TOW DESCRIPTION OF REFERENCED PONT ELEVIATION OF PONT ABOVE DATUM	BRACED FRAME OR DURCHAR	BRACE ABOVE BRACE ABOVE BRACE BELOW BEAM SIZE	
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CONCRETE REPAIR NOTES

REPAIR CRITERIA

THE CRACKS AND SPALLS IDENTIFIED IN THESE DRAWINGS REPRESENT THE MAJORITY OF THE SIGNIFICANT CRACKS/SPALLS OBSERVED; HOWEVER, IT IS NOT MEANT TO BE A COMPREHENSIVE AND COMPLETE PORTRAVAL OF ITEMS REQUIRING MITIGATION. IN ADDITION, THEIR LINGTH & LOCATION ARE APPROXIMATE IN NATURE.

MATERIALS AND PRODUCTS

- 1 BONDING AGENTS:
- EPOXY-MODIFIED, CEMENTITIOUS BONDING AND ANTICORROSION AGENT: MANUFACTURED PRODUCT THAT CONSISTS OF WATER-INSENSITIVE EPOXY ADHESINE, PORTLAND CEMENT, AND WATER-BASED SOLUTION OF CORROSION-MAINTING CHEMICLAS THAT FORMS A PROTECTIVE FILM ON STEEL REINFORCEMENT. ACCEPTABLE PRODUCTS INCLUDE:
- a. EUCLID CHEMICAL COMPANY; DURALPREP A.C.
- b. SIKA CORPORATION: ARMATEC 110 EPOCEM
- MORTAR SCRUB COAT: MIX CONSISTING OF 1 PART PORTLAND CEMENT AND 1 PART FINE AGGREGATE COMPLYING WITH ASTM C 144 EXCEPT 100 PERCENT PASSING A NO. 16 (1.18-MM) SIEVE.

3. PATCHING MORTAR A GENERAL

- a. ONLY USE PATCHING MORTARS THAT ARE RECOMMENDED BY MANUFACTURER FOR EACH APPLICABLE HORIZONTAL, VERTICAL, OR OVERHEAD USE ORIENTATION.
- b. COARSE AGGREGATE FOR PATCHING MORTAR: ASTM C 33, WASHED AGGREGATE, SIZE NO. 8, CLASS 55. ADD TO PATCHING-MORTAR MIX ONLY AS PERMITTED BY PATCHING-MORTAR MANUFACTURER. B. CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX FOR REPAIR OF CONCRETE
- a. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
- BASE CONSTRUCTION CHEMICALS BUILDING SYSTEMS DAYTON SUPERIOR CORPORATION
- EUCLID CHEMICAL COMPANY SIKA CORPORATION: CONSTRUCTION PRODUCT DIVISION
- a. COMPRESSIVE STRENGTH: NOT LESS THAN 5000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M
- C. POLYMER.MODIFIED, CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX FOR REPAIR OF CONCRETE AND THAT CONTAINS A NON-REDISPERSIBLE LATEX ADDITIVE AS EITHER A DRY POWDER OR A SEPARATE LIQUID THAT IS ANDED DURING CONTAINT OF THE ADDITIVE AS EITHER A DRY POWDER OR A SEPARATE LIQUID
- a. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
- BASE CONSTRUCTION CHEMICALS BUILDING SYSTEMS DAYTON SUPERIOR CORPORATION
- SIKA CORPORATION; CONSTRUCTION PRODUCT DIVISION
- a. COMPRESSIVE STRENGTH: NOT LESS THAN 5000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C
- 4. EPOXY CRACK INJECTION MATERIALS
- A. EPOXY CRACK-INJECTION ADHESIVE: ASTM C 881/C 881/M, TYPE IV AT STRUCTURAL LOCATIONS AND WHERE NOT INDICATED.
- B. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING: a FUCUD CHEMICAL COMPANY
- b. SIKA CORPORATION; CONSTRUCTION PRODUCT DIVISION
- c. SIMPSON STRONG TIE. INC
- A. CAPPING ADHESIVE: PRODUCT MANUFACTURED FOR USE WITH CRACK INJECTION ADHESIVE BY SAME MANUFACTURER

SURFACE PREPARATION FOR PATCH LOCATIONS (WHERE CORROSION NOT OBSERVED

- 1. LOCATION AND MARKING OF WORK
- WITHIN THE REGIONS IDENTIFIED IN THE ELEVATIONS, CONTRACTOR TO LOCATE SPALLS DELAMINATIONS HONEYCOMES ROCK POCKETSAND VOIDS MORE THAN 1 NCH IN ANY DIMENSION TO SOLID CONCRETE BY VISUAL INSPECTION AND CONCRETE SOLIDIONG AND MARK THEIR BOUNDARIES WITH CHARK OR PAINT.
- B. AREAS TO BE REMOVED SHALL BE AS STRAIGHT AND RECTANGULAR AS PRACTICAL TO ENCOMPASS THE REPAIR AND PROVIDE A NEAT PATCH.
- C. CONTRACTOR TO LOCATE ALL EMBEDDED POST-TENSIONING TENDONS AND REINFORCEMENT IN THE REPAIR AREA AND MARK THESE LOCATIONS FOR REFERENCE DURING THE CONCRETE REMOVAL IN CONCRETE SLAB.

2 CONCRETE REMOVAL

SOLANA BEACH FIRE DEPARTMENT

FIRE CHIEF

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- FOR VERTICAL AND OVERHEAD SURFACES THE MARKED BOUNDARY MAY BE SAWCUT TO A DEPTH OF 1/4 INCH INTO THE EXISTING CONCRETE, MEASURED FROM THE ORIGINAL SURFACE. EXTRA CAUTION SHALL BE EXERCISED DURING THE SWICUTTING OPERATIONS TO AVOID DAMAGING EXISTING REINFORCEMENT.
- B. ALL CONCRETE SHALL BE REMOVED FROM WITHIN THE MARKED BOUNDARY TO A MINIMUM DEPTH OF 1/2 INCH USING CHIPPING HAMMER'S LESS THAN 15 LBS AT SLABS AND LESS THAN 30 LBS AT COLUMNS AND WALLS. IF UNSOUND CONCRETE EVISIONS BEED TRAVE IS LODGED AND LESS THAN 30 LISS AT COLUMNS AND WALLS. IF UNSOUND CONCRETE HAS BEEN REMOVED FROM THE MINIMUM REMOVAL DEPTH, THEN CHIPPING SHALL CONTINUE UNTIL ALL UNSOUND CONCRETE HAS BEEN REMOVED FROM THE CAVITY.
- C. WHERE EMBEDDED REINFORCEMENT IS EXPOSED BY CONCRETE REMOVAL, EXTRA CAUTION SHALL BE EXERCISED TO AVOID DAMAGING TO DRING REMOVAL OF ADDITIONAL INSIGUID CONCRETE. IF BOND BETWEEN EXPOSED EMBEDDED REINFORCEMENT AND ADJACENT CONCRETE IS MARRIED BY THE CONTRACTOR SEMONAL OPERATIONS, THEN THE CONTRACTOR SHALL PERFORM ADDITIONAL REMOVAL AROUND AND BEYOND THE PERMIETER OF THE REINFORCEMENT FOR A MINIMUM OF 34 INCHALANDS THE INFIRE LISENT HAFCETED.

3 PREPARATION OF CAVITY FOR PATCH PLACEMENT

A. THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST AND DEBRIS. VERIFY FRACTURED PROFILE OF AT LEAST 1/8 INCH OCCURS AT PATCH LOCATION.

ENGINEER OF WORK

NAME. DEGENKOLB ENGINEERS

LH

DRAWN BY R.C.E. S.5646

By: JEREMY T. CALLISTER Date: 3/22/2023

EXP

B. PERFORM ADDITIONAL PREPARATION AND CLEANING OF THE SPALL CAVITY AS REQUIRED BY THE PATCHING MATERIAL MANUFACTURER. NOTIFY ENGINEER OF COMPLETION OF PREPERATION OF CAVITY.

DATE

SANTA FE IRRIGATION DISTRICT

REVIEWED BY

DATE: DISTRICT REP

- SURFACE PREPARATION FOR PATCH LOCATIONS (WHERE CORROSION IS OBSERVED) 1. LOCATION AND MARKING OF WORK
 - A CONTRACTOR TO LOCATE SPALLS AND DELAMINATIONS BY VISUAL INSPECTION AND CONCRETE SOUNDING AND MARK THEID BOUNDADIES WITH CHAILS ON DRAINT
 - B. AREAS TO BE REMOVED SHALL BE AS STRAIGHT AND RECTANGULAR AS PRACTICAL TO ENCOMPASS THE REPAIR AND PROVIDE A NEAT PATCH.

EPOXY CRACK IN JECTION

FIELD QUALITY CONTROL

PROJECT SEQUENCING

1. EPOXY CRACK INJECTION: BASIS OF DESIGN IS SIKADUR 35

1. PERFORM THE FOLLOWING TESTS AND INSPECTIONS:

3. PREPARE TEST AND INSPECTION REPORTS.

BENCH MARK DESCRIPTION OF SUBAN BEACH SURVEY CONTROL FORT TO SUBT FEFR RECOM OF SUBANY MAP AND 1.2 S'OTY OF SOLAN BOOM STEPS RECOMMENDED AND TO SUBJECT OF SUBJECT BOOM STEPS RECOMMENDED AND TO SUBJECT OF SUBJECT OF SUBJECT (1, 0) HALE SOLATO FOLDING SUBJECT OF SUBJECT O

APPROVED FOR CONSTRUCTION

A. CLEAN AREAS TO RECEIVE CAPPING ADHESIVE OF OIL, DIRT, AND OTHER SUBSTANCES THAT WOULD INTERFERE WITH BOND, AND CLEAN CRACKS WITH OIL-FREE COMPRESSED AIR OR LOW-PRESSURE WATER TO REMOVE LOOSE PARTICLES

B. PLACE INJECTION PORTS AS RECOMMENDED BY EPOXY MANUFACTURER, SPACING NO FARTHER APART THAN THICKNESS OF MEMBER BEING INJECTED. SEAL INJECTION PORTS IN PLACE WITH CAPPING ADHESIVE.

C. SEAL CRACKS AT EXPOSED SURFACES WITH A RIBBON OF CAPPING ADHESIVE AT LEAST 1/4 INCH (6 MM) THICK BY 1 INCH (25 MAII WIDER THAN CRACK

D. INJECT EPOXY ADHESIVE, BEGINNING AT WIDEST PART OF CRACK AND WORKING TOWARD NARROWER PARTS. INJECT ADHESIVE INTO PORTS TO REFUSAL, CAPPING ADJACENT PORTS WHEN THEY EXTRUDE EPOXY. CAP INJECTED PORTS AND INJECT THRUGH ADJACENT PORTS INTLE CRACK IS FILLED.

A. PACKAGED, CEMENTITIOUS PATCHING MORTAR: 2 RANDOMLY SELECTED SETS OF SAMPLES FOR EACH TYPE OF MORTAR REQUIRED, TESTED ACCORDING TO ASTM C 928.

B. JOB-MIXED PATCHING MORTAR: 2 RANDOMLY SELECTED SETS OF SAMPLES FOR EACH TYPE OF MORTAR REQUIRED, TESTED FOR COMPRESSIVE STRENGTH ACCORDING TO ASTM C 109/C 109M.

SEE SECTION XVII OF GENERAL NOTES ON S-002 FOR CONCRETE REPAIR AND TIEBACK INSTALLATION WORK SEQUENCING

📥 Degenkolb

DEGENKOLB ENGINEERS 225 Broadway, Suite 1325 San Diego, CA 92101 619.515.0299 PHONE

DE Job Number: C1676031.00

3/22/2023 Date:

ENGINEERING DEPARTMENT

DRAWING NO

S-501

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ww.degenkolb.com

825 SOUTH SIERRA AVENUE, SOLANA BEACH, CA 92075

DEL MAR BEACH CLUB SEAWALL AND UPPER BLUFF REPAIRS

PHASE 1

CITY OF SOLANA BEACH

CONCRETE REPAIR GENERAL NOTES

E. AFTER EPOXY ADHESIVE HAS SET. REMOVE INJECTION PORTS AND GRIND SURFACES SMOOTH

2. PRODUCT WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS

- C. CONTRACTOR TO LOCATE ALL EMBEDDED POST-TENSIONING TENDONS AND REINFORCEMENT IN THE REPAIR AREA AND MARK THESE LOCATIONS FOR REFERENCE DURING THE CONCRETE REMOVAL IN CONCRETE SLAB. 2 CONCRETE REMOVAL
- - A. DELANINATED, SPALLED, AND UNSOUND CONCRETE FLOOR AREAS SHALL HAVE THEIR MARKED BOUNDARIES SAWCUT TO A DEPTH OF 14 NOH NOT THE FLOOR SLAB, UNESS OTHERWISE NOTED FOR VERTICAL AND OKENE-AS SUPPLICES THE MARKED BOUNDARY MAY BE SANCTUR COROLING OR CHIPPED TO A DEPTH OF 14 NEURI NOT DESTING CONCRETE, MESSARDE FROM THE DIRACTOR COROLING SHALL BE DERIVISED DURING THE SANCTITING OFERATIONS TO KNOD DURING ESTING RESING ESTING ESTING COROLINAL (VISIT) 100-1000 AND ESTING ESTING TO KNOD DURING ESTING RESING ESTING RESING (VISIT) 100-1000 AND ESTING ESTING ESTING SHALL VISIT AND ESTING RESING ESTING RESING ESTING ESTING ESTING ESTING SHALL VISIT AND ESTING RESING ESTING RESING ESTING ESTING ESTING SHALL VISIT AND ESTING RESING RESING RESING ESTING ESTING ESTING ESTING SHALL VISIT AND ESTING RESING RESING RESING ESTING RESING ESTING RESING ESTING RESING ESTING RESING ESTING RESING ESTING RESING RESIN
 - B. ALL CONCRETE SHALL BE REMOVED FROM WITHIN THE MARKED BOUNDARY TO A MINIBUM DETHIO F 12 MICH USING CHIPPING HAMMERS LESS THAN 15 LESA TA SLAVE AND LESS THAN 2016 DES AT COLUMNER NO WALLS. IF UNISOLIND CONCRETE EXSTS BEFORE THE MINIBUM REMOVAL DEFTH. THEN CHIPPING SHALL CONTINUE UNTEL ALL UNSOLIND CONCRETE HAS BEEN REMOVED FROM THE CANUTY.
 - C. WHERE EMBEDGED RENFORCEMENT IS EXPOSED BY CONCRETE REMOVAL, EXTRA CAUTION SHALL BE EXERCISED TO AVOID DAMAGNET FURNER REMOVAL OF ADDITIONAL UNSCAND CONCRETE. IF BOND BETVEEN PROSED BABEDGED RENFORCEMENT AND ADJUCENT CONCRETE IS BARABASED INTE CONTRACTORS REMOVAL, GERTATIONS, THEN THE CONTRACTOR SHALL REPROVA ADDITIONAL REMOVAL AROUND AND BEYOND THE PERMETER OF THE REMOVRCEMENT FOR A MINIMUM OF 34 NOR ALONG THE ENTRE LENGTH HEFECTED.

 - IF RUST IS PRESENT ON EMBEDDED REINFORCEMENT WHERE IT ENTERS SOUND CONCRETE, THEN ADDITIONAL REMOVAL OF CONCRETE ALONG AND BENEATH THE REINFORCEMENT WILL BE REQUIRED. SUCH ADDITION, REMOVAL SHALL CONTINUE UNTIL NONRISTER DEINFORCIMENT IS EXPOSED, OR AS DIRECTED BY THE ENGINEER.
- 3. REINFORCEMENT IN REPAIR AREA

CLEANING OF REINFORCING

5. PREPARATION OF CAVITY FOR PATCH PLACEMENT

OF PATCH MATERIALS

- A. ALL EMBEDDED REINFORCEMENT EXPOSED DURING SURFACE PREPARATION THAT HAS LOST MORE THAN 20% OF THE ORIGINAL CROSS-SECTIONAL AREA DUE TO CORROSION SHALL BE CONSIDERED DEFECTIVE, AND WILL REQUIRE REMOVAL AND REPLACEMENT. CONTRACTOR TO NOTIFY ENGINEER OF THESE CONDITIONS.

- B. CONCRETE SHALL BE REMYRED TO PROVIDE A MINIMUM OF SHIRCH CLEMANCE ON ALL BRES OF DEFECTIVE OR DAMAGED DEVOEDE DIBERDORE DERINGREGHENT MIT SI LET TH A ALC. A MINIMUM OF 12 MON CONCRETE COVER SHALL BE PROVED OVER ALL NEW AND DESTING REINFORCEMENT, CONCRETE COVER NEWFORCEMENT MAY BE REDUCED TO 34 NOW WITH THE ISONERES A PROVING LE COXET DWITH AN APPROVED EDVOYER SHERFORCEMENT MAY BE

A. THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST AND DEBRIS. VERIFY FRACTURED PROFILE OF AT LEAST 1/8 INCH OCCURS AT PATCH LOCATION.

B. PERFORM ADDITIONAL PREPARATION AND CLEANING OF THE SPALL CAVITY AS REQUIRED BY THE PATCHING MATERIAL MANUFACTURER

D. GENERAL PLACEMENT-PLACE PATCHING MORTAR BY TROVELING TOWARD EDGES OF PATCH TO FORCE NTIMATE COMIACT WITH IDDE SUFACES FOR LARGE PATCHES, FLE LEDGES FRIST AND THEN WORK TOWARD EDGES TROVELING TOWARD EDGES OF PATCH AT FULLY EXPOSED BERNFORCING BARS, FORCE PATCHING MORTAR TO FILL SPACE BEINNE DARG BY COMPARITING WITH TROVEL FORM SIDES OF BARS.

H. FINISHING: ALLOW SURFACES OF LIFTS THAT ARE TO REMAIN EXPOSED TO BECOME FIRM AND THEN FINISH TO A SURFACE MATCHING ADJACENT CONCRETE.

CURING: WET-CURE CEMENTITIOUS PATCHING MATERIALS, INCLUDING POLYMER-MODIFIED CEMENTITIOUS PATCHING MATERIALS, FOR NOT LESS THAN SEVEN DAYS BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER ALTERNATIVEL, USE CURING COMPCUND APPROVED BY THE COR AND REPAR MONTARGROUT MANUFACTURER.

D. PLACE DRY-PACK MORTAR INTO CAVITY BY HAND, AND COMPACT TIGHTLY INTO PLACE. DO NOT PLACE MORE MATERIAL AT A TIME THAN CAN BE PROPERLY COMPACTED. CONTINUE PLACING AND COMPACTING UNTIL PATCH IS APPROXIMATELY LEVEL WITH SURROUNDING SURFACE.

AFER CANTY IS FILED AND PATCH IS COMPACTED, TROVEL SUBFACE TO MATCH PROFILE AND FINISH OF SURROUNDING CONCERTS. A THIN COAL OF PATCHING MORTAR MAY BE TROWELED BITO THE SURFACE OF PATCH TO HELP ORTAN REQUIRED FINISH

F. WET-CURE PATCH FOR NOT LESS THAN SEVEN DAYS BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER. ALTERNATIVELY, USE CURING COMPOUND APPROVED BY THE EOR AND REPAIR MORTAR/GROUT MANUFACTURER.

C. WET-CURE CONCRETE FOR NOT LESS THAN SEVEN DAYS BY LEAVING FORMS IN PLACE OR KEEPING SURFACES CONTINUOUSLY WET BY WATER-FOG SPRAY OR WITER-SATURATED ABSORPTIVE COVER. ALTERNATIVELY, USE CURING COMPOUND APPROVED BY THE EOR AND REPARM MORTAR/GROUT MANUFACTURER.

RECOMMENDED FOR APPROVAL

D. FILL PLACEMENT CAVITIES WITH DRY-PACK MORTAR AND REPAIR VOIDS WITH PATCHING MORTAR. FINISH TO MATCH

3. PLACEMENT OF CONCRETE PATCH: BASIS OF DESIGN FOR FORM AND POUR REPAIRS IS SIKACRETE 211 SCC PLUS

a. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE. b. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER.

c. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS

d. PLACE MATERIAL PER MANUFACTURER'S RECOMMENDATIONS

APP'D DATE

No. Date

2. APPLICATION OF DRY PACK MORTAR: USE FOR DEEP CAVITIES AND WHERE INDICATED. PLACE AS FOLLOWS UNLESS OTHERWISE RECOMMENDED IN WRITING BY MANUEACTURER

E. VERTICAL PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 1-1/2 INCHES NOR LESS THAN 1/8 INCH. DO NOT BEATWED EDGE F. OVERHEAD PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 1-1/2 INCHES NOR LESS THAN 1/8 INCH. DO NOT ERATUED EDGE G. CONSOLIDATION: AFTER EACH LIFT IS PLACED, CONSOLIDATE MATERIAL AND SCREED SURFACE

A. ALL EXPOSED STEEL SHALL BE CLEANED OF RUST TO BARE METAL BY SANDBLASTING OR WIRE BRUSHING.

APPLICATION OF PATCHING MORTAR: PLACE AS FOLLOWS UNLESS OTHERWISE RECOMMENDED IN WRTING BY MANUFACTURER: BASIS OF DESIGN FOR SHALLOW SURFACE REPAIRS IS SIKATOP 122 PLUS.

C. COAT REBAR AND CAVITY WITH SIKA ARMATEC 110 PER MANUFACTURER RECOMMENDATIONS.

A. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE.

A. PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE.

A. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.

B. STANDARD PLACEMENT

CITY APPROVED CHANGES

Description

B. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER. C. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.

B. WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER C. APPLY BONDING AGENT PER MANUFACTURER RECOMMENDATIONS.













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