

STAFF REPORT CITY OF SOLANA BEACH

TO: Honorable Mayor and City Councilmembers

FROM: Alyssa Muto, City Manager

MEETING DATE: October 22, 2025

ORIGINATING DEPT: Engineering Department

SUBJECT: Project Update on the Lomas Santa Fe–East Improvement

Project – Final Design and Extension of PSA with Michael Baker International for Design-Related Construction

Support

BACKGROUND:

The Lomas Santa Fe Corridor is the City's primary east—west arterial and provides access to schools, parks, the library, transit, and commercial areas. The City has advanced the Lomas Santa Fe–East Improvement Project with design, funding, and agency coordination over several years to prepare the Loma Santa Fe-East Improvement Project for construction. The project will maintain two lanes of travel in both direction, and includes new sidewalks, a multi-use trail, bicycle lanes, landscaped medians, and pedestrian enhancements, including benches, decorative paving of the sidewalks and trash receptacles.

This item is before the City Council to receive input on the final design elements associated with the pedestrian enhancements (benches, decorative paving, and trash receptacles) and the tree palate prior to advertisement for construction bids. This item is also before City Council for consideration of Resolution 2025-115 (Attachment 1), authorizing an amendment to the Professional Services Agreement (PSA) with Michael Baker International, Inc. to update final design plans, provide design-related construction support services, and extend the contract term to align with the construction schedule, in the amount of \$230,000, funded by the TIF Fund.

DISCUSSION:

Lomas Santa Fe Drive is a key east—west corridor in the City, connecting neighborhoods to schools, parks, the train station, and the Cedros commercial district. The Lomas Santa

COUNCIL ACTION:		

Fe Corridor Project is comprised of an east and west project and is designed to improve connectivity, circulation, and access for pedestrians, cyclists, and drivers. The project is identified in the City's Comprehensive Active Transportation Strategy (CATS) and Safe Routes to School Plan.

The Lomas Santa Fe-East Improvement Project (Santa Helena to Highland Drive) will maintain two lanes of vehicle travel in both directions, and construct a multi-use trail with pedestrian enhancements, buffered bike lanes, ADA-compliant ramps, signal upgrades, crosswalk improvements, street trees, and landscaped medians. These improvements are intended to enhance mobility and safety along the corridor, particularly for students traveling to Skyline Elementary and Earl Warren Middle School. The project will also include modifications to lane widths and signal phasing to support better traffic flow and visibility at key intersections, while still maintaining two travel lanes in both directions.

A community workshop/open house was held in May 2018, and a presentation was made at a City Council meeting in August 2018, to present initial design ideas that included four roundabouts and active transportation improvements. Through public and Council feedback, the project was redesigned to remove all roundabouts and the results of the community workshop were incorporated into the design and shared with the City Council on January 22, 2020. During the May 26, 2021, Council meeting, the City Council approved the final geometric alignment, including direction to extend the Highway 101 Westside Improvement Project theme to Lomas Santa Fe's streetscape features. While bike racks and bus shelters are not included on the east segment because there is no bus service east of Interstate 5, other elements-such as lighting, waste receptacles, decorative paving and retaining wall treatments are part of the final design. At the October 20, 2021, meeting, Council reviewed options for enhancing the retaining wall between Santa Helena and Via Mil Cumbres and expressed support for a simple decorative treatment, in lieu of a bluff face replica.

In 2022, the City coordinated with Congressman Mike Levin's office to request a grant for construction funding for the Lomas Santa Fe-East Improvement Project. A federal grant was received in May 2023 in the amount of \$7.0 million through the National Infrastructure Investment and Jobs Act. It was determined that the grant award would allow for the construction of the project on the east side of Interstate 5, from Santa Helena to Highland Drive. City Council has also allocated surplus funds to this project to cover anticipated costs that have escalated since the design process concluded.

Because of federal funding, Caltrans serves as the delegated authority for construction authorization. The City received in August 2025 Caltrans Authorization to Proceed with advertising the project for construction bids. The purpose of this item is to receive Council's input on final design elements associated with the pedestrian enhancements (benches, decorative paving, trash receptacles) and the tree palate, prior to bid advertisement. Staff will incorporate any final Council direction into the plans and specifications before advertising. Staff anticipates returning to Council in early 2026 to award the construction contract.

On February 13, 2019, the City entered into a Professional Services Agreement (PSA) with Michael Baker International, Inc. (MBI) for final design services for the Lomas Santa Fe Corridor Phase III Project. The original contract was authorized under Resolution 2019-011 for an amount not to exceed \$684,500 and a term of two years, through February 13, 2021. The scope included development of engineering plans, specifications, and estimates (PS&E) for the full corridor, from Highway 101 to Highland Drive.

MBI has provided engineering design, community engagement, agency coordination, and federal grant compliance support for the Lomas Santa Fe Corridor Project under a Professional Services Agreement originally authorized in February 2019. The agreement has been amended three times to extend the term and increase compensation, reflecting the evolving scope of work and the need to complete final bid documents in coordination with Caltrans. With these amendments, the total contract amount is \$873,980, and the current term expired March 22, 2025 (Resolutions 2023-035 and 2024-079).

With Caltrans granting Authorization to Proceed with advertising the project for construction bids, Staff recommends executing a fourth amendment to retain MBI for design-related construction support services, including but not limited to:

- Review of contractor submittals and requests for information (RFI),
- Attendance at construction meetings,
- Coordination with City Staff, the construction management consultant and Caltrans, and
- Assistance with design clarifications during construction.

The proposed Amendment No. 4 would increase the PSA amount by \$230,000, for a total amount of \$1,103,980, and extend the term to December 31, 2027, allowing MBI to remain engaged through the construction phase of the project.

Pursuant to Solana Beach Municipal Code Section 3.08.130.D, the requirement for competitive selection may be waived when it is in the public's interest. In this case, retaining the existing design team is the most efficient and cost-effective approach. MBI has been involved with the project since 2016, has in-depth knowledge of the design history, and is familiar with Caltrans oversight procedures and federal grant requirements. Continuing with the same team avoids duplicative efforts, reduces the risk of miscommunication, and allows design-related construction support to begin without delay.

CEQA COMPLIANCE STATEMENT:

A Notice of Exemption/Categorical Exemption for this project was recorded with the County Recorder's Office in April 2024. This Categorical Exemption found the project exempt from CEQA under section number 15301(c) – Existing Highways and Streets.

Since construction of this project will be partially funded from federal funds, environmental clearance is also required under the National Environmental Policy Act (NEPA). The FHWA has delegated this authority to Caltrans. Caltrans originally approved a Categorical

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Exclusion under section 23USC 326, 23 CFR 771, activity (c) 3 in April 2024. The NEPA Categorical Exclusion was re-validated by Caltrans in May 2025.

FISCAL IMPACT:

This item is to authorize the City Manager to execute an amendment to the PSA with MBI for design-related construction support, in the amount of \$230,000. There is sufficient budget available in the TIF Account (4546510-66610).

The current PSA with MBI is for a total not to exceed amount of \$873,980. The amendment would increase the compensation by \$230,000, increasing the not-to-exceed amount to \$1,103,980 and extending the PSA to December 31, 2027. The additional cost will be covered by TIF funding that has already been allocated.

WORK PLAN:

The Lomas Santa Fe Corridor Project is included as Item II.1 under Transportation and Mobility Priorities in the Fiscal Year 2025/26 Council Work Plan. This staff report updates progress on key objectives, including completion of the federal funding process, amending the PSA with Michael Baker International to provide design-related construction support services, and advertising the project for construction. These steps move the project toward implementation of mobility, access, and safety goals.

OPTIONS:

- Approve Staff recommendation.
- Approve Staff recommendation with modifications.
- Deny Staff recommendation and provide further direction to the City Manager.

CITY STAFFRECOMMENDATION:

Staff recommends that the City Council:

- 1. Receive this final report and provide additional input and comments as needed on the Lomas Santa Fe-East Improvement Project.
- 2. Authorize the City Manager to take any actions necessary to advertise the Lomas Santa Fe-East Improvement Project for construction bids.

Staff also recommends that the City Council adopt Resolution 2025-115:

3. Authorizing the City Manager to execute an amendment to the Professional Services Agreement, for an increase of \$230,000, with Michael Baker International for the completion of the bid documents and design-related construction support services for the Lomas Santa Fe-East Improvement Project, which would extend from Santa Helena to Highland Drive. The amendment would also extend the term of the agreement so that the new end date is December 31, 2027.

Alyssa Muto, City Manager

Attachments:

- 1. Resolution 2025-115
- 2. Project Preliminary Design Plans (Pre-Bid)

RESOLUTION 2025-115

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOLANA BEACH, CALIFORNIA, APPROVING AN AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT WITH MICHAEL BAKER INTERNATIONAL FOR DESIGN-RELATED CONSTRUCTION SUPPORT

WHEREAS, the City has advanced the Lomas Santa Fe-East Improvement Project with design, funding, and agency coordination over several years to prepare the Loma Santa Fe-East Improvement Project for construction. The project includes new sidewalks, a multi-use trail, bicycle lane buffers, landscaping, and pedestrian enhancements; and

WHEREAS, on February 13, 2019, the City entered into a Professional Services Agreement (PSA) with Michael Baker International, Inc. (MBI) for final design services for the Lomas Santa Fe Corridor Phase III Project. The original contract was authorized under Resolution 2019-011 for an amount not to exceed \$684,500 and a term of two years, through February 13, 2021 (Attachment 2). The scope included development of engineering plans, specifications, and estimates (PS&E) for the full corridor, from Highway 101 to Highland Drive; and

WHEREAS, three amendments have been executed that extended the term of the agreement and increased the compensation to provide for changes to the scope of work and split the plans and specifications into separate packages for east and west side construction due to construction funding limitations; and

WHEREAS, with Caltrans granting the Authorization to Proceed with advertising the project for construction bids, Staff recommends executing a fourth amendment to retain MBI for design-related construction support services including, but not limited to, review of contractor submittals and requests for information, attendance at construction meetings, coordination with City Staff, the construction management consultant and Caltrans and assistance with design clarifications during construction; and

WHEREAS, the proposed Amendment No. 4 would increase the PSA amount by \$230,000, for a total amount of \$1,103,980, and extend the term to December 31, 2027, allowing MBI to remain engaged through the construction phase of the project; and

WHEREAS, pursuant to Solana Beach Municipal Code Section 3.08.130.D, the requirement for competitive selection may be waived when it is in the public's interest. In this case, retaining the existing design team is the most efficient and cost-effective approach. MBI has been involved with the project since 2016, has in-depth knowledge of the design history, and is familiar with Caltrans oversight procedures and federal grant requirements. Continuing with the same team avoids duplicative efforts, reduces the risk

of miscommunication, and allows design-related construction support to begin without delay.

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.

AVES:

- 2. Authorize the City Manager to advertise the Lomas Santa Fe-East Improvement Project for construction bids.
- 3. That the City Council authorizes the City Manager to execute an amendment to the Professional Services Agreement, for an increase of \$230,000, with Michael Baker International for the completion of the bid documents and design-related construction support services for the Lomas Santa Fe-East Improvement Project, which would extend from Santa Helena to Highland Drive. The amendment would also extend the term of the agreement so that the new end date is December 31, 2027.

PASSED AND ADOPTED this 22nd day of October 2025, at a regularly scheduled meeting of the City Council of the City of Solana Beach, California by the following vote:

		Councilmembers – Councilmembers – Councilmembers – Councilmembers –		
			LESA HEEBNER, Mayor	
APPROV	ED AS TO F	FORM:	ATTEST:	
JOHANN	A N. CANLA	AS, City Attorney	ANGELA IVEY, City Clerk	

STANDARD REQUIREMENTS

- 1. ALL WORK, UNLESS OTHERWISE SPECIFIED, SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION AND SUPPLEMENTS OF THE "STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION". SAN DIEGO REGIONAL STANDARD DRAWINGS AND CITY OF SOLANA BEACH ENGINEERING CONSTRUCTION STANDARDS.
- 2. WORK ZONE TRAFFIC CONTROLS THROUGHOUT PERMIT CONSTRUCTION SHALL CONFORM TO THE LATEST CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES".
- 3. BEFORE WORK ON ANY SEWER LINE BEGINS. A PERMIT MUST BE ISSUED BY THE SOLANA BEACH ENGINEERING DEPARTMENT. FOR INFORMATION ON SEWER PERMITS, PLEASE CALL (858) 720-2470.
- 4. PARKING RESTRICTIONS, AS APPROVED BY CITY ENGINEER, SHALL REQUIRE A MINIMUM OF 48 HOURS NOTICE, EXCLUDING HOLIDAYS AND WEEKENDS.
- 5. TRAFFIC LANE RESTRICTIONS AND DETOURS MAY OCCUR ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M., AND ARE SUBJECT TO REVIEW OF THE CITY ENGINEER. EXCAVATIONS SHALL BE BACKFILLED OR OTHER ADEQUATE MEANS PROVIDED TO MAINTAIN EXISTING TRAFFIC LANES OTHER THAN DURING THESE HOURS.
- 6. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON ALL MAJOR AND SECONDARY HIGHWAYS.
- 7. A MINIMUM 4' WIDE PEDESTRIAN WALKWAY, CLEAR OF ANY OBSTRUCTION SHALL BE MAINTAINED WHEREVER SIDEWALKS EXISTS AND MUST BE MAINTAINED WITH SAFETY FENCING OR BARRIER SEPARATION FROM ADJACENT EXCAVATION WHEN LEFT UNMANNED.
- 8. ANY DAMAGE TO TRAFFIC CONTROL EQUIPMENT, TRAFFIC STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE INSPECTOR. THE REPLACEMENT OF DAMAGED TRAFFIC EQUIPMENT, STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE DONE AS SOON AS PRACTICAL AFTER COMPLETION
- 9. A.C. PAVEMENT SHALL BE COLD MILLED BEYOND THE EDGE OF THE TRENCH PER SDRSD G-24A & B. CONCRETE SECTIONS TO BE REPLACED SCORELINE TO SCORELINE.
- 10. PERMANENT PAVEMENT REPAIRS SHALL BE MADE WITHIN 25 DAYS AFTER EXCAVATION WORK IS COMPLETED. INSPECTOR'S APPROVAL IS REQUIRED BEFORE PERMANENT REPAIRS ARE MADE.
- 11. WHEN PERMITTEE TUNNELS UNDER EXISTING CURBS, GUTTERS AND SIDEWALKS. THE EXCAVATED TRENCH SHALL BE BACKFILLED WITH CEMENT GROUT AS PRESCRIBED IN THE STANDARD SPECIFICATIONS.
- 12. WHEN COMPACTION TESTS ARE REQUIRED, ALL COSTS ARE TO BE BORNE BY THE PERMITTEE.
- 13. A ONE-SACK CEMENT AND SLURRY MIXTURE MAY BE REQUIRED FOR COMPACTION WHERE EXCAVATION INTERFERES WITH TRAFFIC FLOW OR WHERE WORK IS WITHIN THE ROADWAY PORTION OF AN INSPECTION.
- 14. TREE TRUNKS SHALL BE CUT TO WITHIN 4" OF CURB HEIGHT AND SAID TRUNK AND ALL ROOTS SHALL BE GROUND TO A DEPTH OF 18" BELOW GRADE BY A MECHANICAL STUMP GRINDER TO THE SATISFACTION OF THE PUBLIC WORKS SUPERINTENDENT. ALL WOOD CHIPS SHALL BE REMOVED AND THE HOLE FILLED AND COMPACTED WITH TOPSOIL.

GENERAL NOTES

- 1. A PERMIT SHALL BE OBTAINED FROM THE CITY OF SOLANA BEACH ENGINEERING DEPARTMENT FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 2. THE STRUCTURAL SECTION SHALL BE APPROVED BY THE CITY OF SOLANA BEACH AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT
- 4. ALL UNDERGROUND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB. CROSS GUTTER AND PAVING.
- 5. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER. WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 6. LOCATIONS AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- 7. THE CONTRACTOR SHALL NOTIFY DIG ALERT AT 811 PRIOR TO STARTING WORK AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
- 8. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- 9. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. CITY ENGINEER'S SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS (IF APPLICABLE).
- 10. THE CONTRACTOR SHALL REQUEST FROM THE CITY ENGINEER'S OFFICE A PRE-CONSTRUCTION MEETING AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE FOR SUCH A MEETING.
- 11. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES AND ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- 12. POWER SOURCES AND RUNS SERVING STREETLIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT OF WAY OR WITHIN EASEMENT DEDICATED TO THE CITY OF SOLANA BEACH.

LOMAS SANTA FE CORRIDOR EAST IMPROVEMENTS FEDERAL AID NO. CPFCDSL-5445(008) CITY OF SOLANA BEACH BID NO. 2025-01

TRANSFER OF RESPONSIBILITY

IF RESPONSIBLE PROFESSIONALS (CIVIL ENGINEER, SOIL ENGINEER, ENGINEERING GEOLOGIST. THE TESTING AGENCY. THE CONTRACTOR OR OTHER PROFESSIONAL) OF RECORD ARE CHANGED DURING THE COURSE OF THE WORK, THE WORK SHALL BE STOPPED UNTIL:

- 1. THE OWNER SUBMITS A LETTER OF NOTIFICATION VERIFYING THE CHANGE OF THE RESPONSIBLE PROFESSIONAL;
- 2. THE NEW RESPONSIBLE PROFESSIONAL SUBMITS IN WRITING THAT HE/SHE HAS REVIEWED ALL PRIOR REPORTS AND/OR PLANS (SPECIFIED BY DATE AND TITLE) AND WORK PERFORMED BY THE PRIOR RESPONSIBLE PROFESSIONAL AND THAT HE/SHE ASSUMES ALL RESPONSIBILITY WITHIN HIS PURVIEW AS OF THE SPECIFIED DATE. ALL EXCEPTIONS MUST BE JUSTIFIED TO THE SATISFACTION OF THE CITY ENGINEER. WHERE CLEARLY INDICATED THAT THE FIRM, NOT AN INDIVIDUAL PROFESSIONAL IS THE CONTRACTING PARTY, THE DESIGNATED PROFESSIONAL MAY BE REASSIGNED AND ANOTHER PROFESSIONAL OF COMPARABLE ACCREDITATION WITHIN THE FIRM MAY ASSUME RESPONSIBILITY.
- 3. THE NEW RESPONSIBLE PROFESSIONAL PROCESSING A REVISION TO THE APPROVED PLANS SHALL INCLUDE BUBBLING OUT THE REVISION AND SIGNING THE PLANS AT THE REQUIRED LOCATIONS. THE "DECLARATION OF (PROFESSIONAL TITLE) OF WORK" ON THE PLANS SHALL ALSO BE INCLUDED AND SIGNED IN THE EVENT OF A CHANGE OF PROFESSIONAL.

AS-BUILT

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 "AS-BUILT", AND RETURN ORIGINAL MYLARS TO THE CITY.

ENGINEER OF WORK AS-BUILT CERTIFICATE

THE INFORMATION SHOWN IS BASED ON AN ACTUAL FIELD SURVEY OF THE IMPROVEMENTS BETWEEN THE DATES OF

_. TO THE BEST OF MY KNOWLEDGE AND EXPERIENCE THE SURVEY AND THESE PLANS PROVIDE AN ACCURATE AND CORRECT REPRESENTATION OF THE AS-BUILT CONDITIONS.

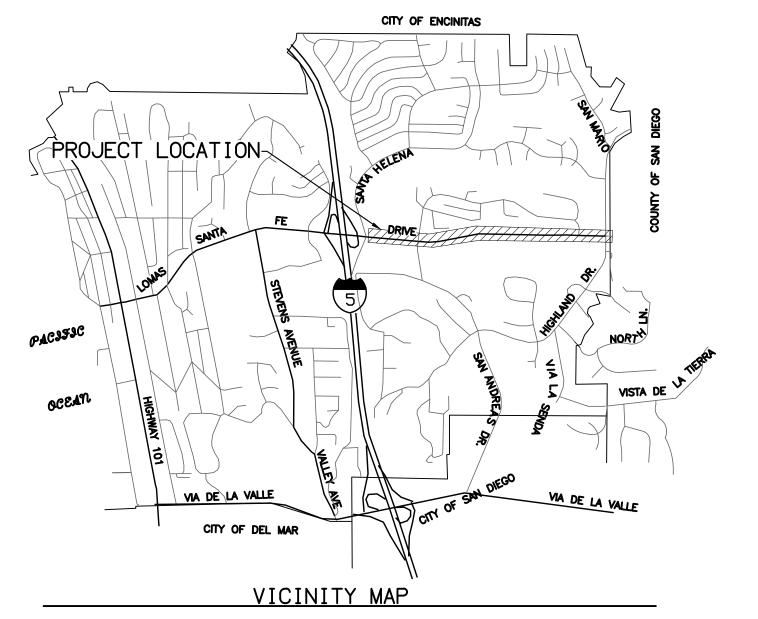
SIGNED		DATE	
	10	C \/ C	

CONTRACTOR'S NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE. CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND. INDEMNIFY AND HOLD CITY OF SOLANA BEACH HARMLESS FORM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM

THE SOLE NEGLIGENCE OF CITY OF SOLANA BEACH PROFESSIONAL.

_IST	OF ABBREVIATIONS		
AΒ	AGGREGATE BASE	МН	MANHOLE
AΒ	ABANDON (TRAFFIC SHEETS ONLY)	MIN	MINIMUM
ÄČ	ASPHALT CONCRETE	MJ NO	MECHANICAL JOINT
ÀCP	ASBESTOS CEMENT PIPE	NO	NUMBER
ADV	ADVANCE	NTS	NOT TO SCALE
ÄRV	AIR RELEASE VALVE AND	PB	PULL BOX
	FNCI OSURF	PCC	POINT OF COMPOUND CURVE
\PS	ENCLOSURE ACCESSIBLE PEDESTRIAN SIGNAL	POC	POINT OF CONNECTION
SC SC			
BCR	BEGIN CURB RETURN	PROP	PROPOSED
BFP	BACK FLOW PREVENTER	PT	POINT
3K	BIKE	PVC	POLYVINYL CHLORIDE PIPE
BLVD	BOULEVARD	RCP	REINFORCED CONCRETE PIPE
BP .	BOTTOM OF PIPE	RCP RMC	RIGID METALLIC CONDUIT
<u> </u>	CONDUIT	RRFB	RECTANGULAR RAPID FLASHING
CAB			BEACON
CAV	SEWAGE COMBINATION AIR VALVE	RT	RIGHT
C&G	CURB & GUTTER	RTU	
CL	CENTERLINE	RW	RECYCLED WATER
MP		R/W	
CR	CROWN	SC	SPLICE NEW TO EXISTING CONDUCTOR
)I		SD	
ÌΡ		SDMN	
DLC		SDRSD	
OWG	DRAWING	321132	DRAWINGS
E A	EACH	SF	SQUARE FEET
C	END CURVE	SFM	
CR	END CURB RETURN	SM	
VAULT	ELECTRIC VAULT	SMH	
ZVP	EMERGENCY VEHICLE PREEMPTION	SNS	STREET NAMESIGN
ΣX	EXISTING	STA	STATION
•	FUEL	STD	STANDARD
TH	FIRE HYDRANT	STP	SHIELDED TWISTED PAIR
-L	FLOW LINE	SWK	SIDEWALK
TLG	FLANGE	TC	TOP OF CURB
- O	FIBER OPTIC	TP	TOP OF PIPE
S	FINISH SURFACE	TELE	TELECOM
}	GAS / GROUND	TRANS	TRANSFORMER
SV	GAS VALVE	TS	TRAFFIC SIGNAL
B	GRADE BREAK	TYP	TYPICAL
IDPE	HIGH DENSITY POLYETHYLINE	VERT	VERTICAL
IORIZ	HORIZONTAL	VWD	VALLECITOS WATER DISTRICT
I P	HIGH POINT / HIGH PRESSURED	W	WATER
RR	IRRIGATION '	WC	WATER CONNECTION
VC	IRRIGATION VALVE COVER	WM	WATER METER
E	INVERT ELEVATION	WV	WATER VALVE
.F	LINEAR FEET		
т			



SITE ADDRESS

EAST OF HWY I-5: FROM SANTA HELENA TO HIGHLAND DR.

SOURCE OF TOPOGRAPHY

TOPOGRAPHY PROVIDED BY AEROTECH MAPPING, INC. DATE FLOWN: MAY, 2019

BASIS OF BEARING

THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 6, (EPOCH 1991.35). SAID COORDINATES AND BEARINGS ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CONTROL POINTS PER RECORD OF SURVEY 18971 (CITY OF SOLANA BEACH SURVEY CONTROL)

STATION	NORTHING (ft.) GRID	EASTING (ft.) GRID
2001	1941484.322	6248585.851
2010	1945083,493	6253573,589

THE BASIS OF BEARINGS IS THE CALCULATED BEARING BETWEEN SAID CONTROL STATIONS 2001 & 2010.

I.E. N54°11'08"E COORDINATES SHOWN HEREON ARE GROUND AND IN TERMS OF THE U.S. SURVEY FOOT.

6256070.045

CONTROL STATION #130: GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR (0.99996480)

STATION	NORTHING (ft.) GRID	EASTING (ft.) GRID

<u>BENCHMARK</u>

| 130 | 1643648.598

THE BASIS OF ELEVATIONS FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER RECORD OF SURVEY 18971 (CITY OF SOLANA BEACH SURVEY CONTROL). BENCHMARK DESIGNATION: #2010 ENC-46:2.5" CITY OF ENCINITAS BRASS DISC IN NORTHWEST CORNER OF CONCRETE DROP INLET IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF SANTA HELENA AND SANTA ROSITA STREETS. **ELEVATION: 170.241 (NAVD88)**

BOUNDARY NOTES

THE BOUNDARY AND ALL DIMENSIONS SHOWN HEREON ARE BASED ON AN UNRECORDED RECORD OF SURVEY AS PREPARED BY MICHAEL BAKER, INC. PER FIELD SURVEY PERFORMED ON APRIL 5TH -APRIL 19TH, 2019.

ENGINEER'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

ENGINEER OF WORK CERTIFICATE

GEOFFREY H. RETEMEYER HEREBY DECLARE THAT I AM THE 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.

DATE 12/2/2024

EXP. <u>12/31/2025</u> R.C.E. NO. <u>90577</u>

ADDRESS 5050 AVENIDA ENCINAS, SUITE 260, CARLSBAD CA 92008

TELEPHONE: 760-603-6260

FIRM MICHAEL BAKER INTERNATIONAL



WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE (UNLESS OTHERWISE NOTED) ACCORDING TO THESE PLANS AND THE LATEST EDITIONS OF:

STANDARD SPECIFICATIONS

- (1) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2018 GREENBOOK) INCLUDING THE REGIONAL SUPPLEMENTAL AMENDMENTS.
- (2) CALIFORNIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL DEVICES"
- (3) STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
- (4) SAN DIEGO WATER AGENCIES' WATER STANDARDS (SDWAS)

STANDARD DRAWINGS

- (1) SAN DIEGO REGIONAL STANDARD DRAWINGS
- (2) STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS
- (3) SAN DIEGO WATER AGENCIES' WATER STANDARDS (SDWAS)

I FGFND

<u>LEGEND</u> <u>IMPROVEMENTS</u>	STD. DWGS.	SYMBOL
6" CURB & GUTTER 6" MEDIAN CURB EXISTING MEDIAN CURB	SDRSD G-2 SDRSD G-6	
CONCRETE SIDEWALK	SDRSD G-7	
2" GRIND AND OVERLAY		
12" AC PATCH		
PROPOSED RETAINING WALL		
WATER QUALITY BASIN		
LANDSCAPE AREA		· · · · · · · · · · · · · · · · · · ·
CURB RAMP W/ TRUNCATED DOMES	SDRSD G-27,28-32	
EXISTING DRIVEWAY		
PROPOSED DRIVEWAY	SDRSD G-14	
STORM DRAIN CLEANOUT - TYPE A	SDRSD D-9	0
STORM DRAIN INLET - TYPE B	SDRSD D-2	
PROPOSED CONTOUR		212
EXISTING CONTOUR		(212)
LIMITS OF WORK/DAYLIGHT LINE		— — — — — — — — — — — — — — — — — — —
EXISTING PROPERTY LINE STREET CENTERLINE		——————————————————————————————————————
EXISTING RIGHT OF WAY LINE		—R/W· — —
EXISTING CONCRETE		
EXISTING EDGE OF PAVEMENT		
EXISTING WALL		
EXISTING FENCE		×××
EXISTING VALVE		
EXISTING FIRE HYDRANT		FH M
EXISTING WATER METER		M
EXISTING MANHOLE		MH
EXISTING SIGN		
EXISTING TREE TO REMAIN		\odot
EXISTING TREE TO BE REMOVED		\odot
EXISTING LIGHT		—
PROPOSED STREET LIGHT POLE		—
FOUND SURVEY MONUMENT FOUND M-10 SURVEY MONUMENT		•

SHEET INDEX PLAN CODE

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5	TYP-1	TYPICAL CROSS SECTIONS
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		DI ANI GGD

PLAN CODE



5050 Avenida Encinas Carlsbad, CA 92008 Phone: (760) 476-9193 NTERNATIONAL MBAKERINTL.COM





SEOFFREY H. RETEMEYER RCE 90577

ENGINEER OF WORK

LEFT

CITY APPROVED CHANGES

RECOMMENDED FOR APPROVAL R.C.E.:

Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

APPROVED FOR CONSTRUCTION

BENCH MARK **DESCRIPTION:** DATUM: M.S.L.

IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

CITY OF SOLANA BEACH

ENGINEERING DEPARTMENT TITLE SHEET

CG-3185 Sheet 1 of 54

<u>SPECIAL NOTES</u>

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES, AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT

- 1. NEITHER THE OWNER NOT THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. 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. SAFETY FENCES SHALL BE PROVIDED BY THE CONTRACTOR WHERE REQUIRED BY THE CITY ENGINEER.
- 2. PRIOR TO ANY CONSTRUCTION OR EXCAVATING FOR THIS CONTRACT, THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENT. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF WORK TO BE PERFORMED, EXPLORATORY EXCAVATIONS SHALL BE DONE IN ADVANCE IN ORDER TO PROVIDE SUFFICIENT TIME PRIOR TO CONSTRUCTION FOR ANY NECESSARY PERMIT REVISIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCY.
- 3. THE CONTRACTOR SHALL POTHOLE, VIDEO, UTILITY LOCATE OR UNCOVER ALL UTILITIES THAT MAYBE GRADED OVER, CONNECTED TO, JOINED, CROSSED, OR PARALLELED TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO ANY CONSTRUCTION, ANY CONFLICT OR DISCREPANCY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION. OTHERWISE THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY ADDITIONAL CONSTRUCTION OR RELOCATION COSTS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, RELOCATING, MAINTAINING, AND OR REMOVAL OF EXITING UTILITIES WHEN IN CONFLICT WITH PROPOSED IMPROVEMENTS.
- 5. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINE NOT OF RECORD OR SHOWN ON THESE PLANS. CONTRACTOR SHALL MARK ALL DISCOVERED UTILITIES ON A SET OF PLANS IN RED AND MODIFY IN RED-LINE PLANS ANY CHANGES TO EXISTING UTILITIES SHOWN ON THESE PLANS.
- 6. WHERE TRENCHES ARE ADJACENT TO FUTURE BUILDING SITES, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOIL ENGINEER WHICH CERTIFY* THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE ON-SITE EARTHWORK SPECIFICATIONS *AS DEFINED IN AND LIMITED IN SECTION 6735.5 OF THE BUSINESS AND PROFESSIONAL CODE OF CALIFORNIA.
- 7. CONTRACTOR SHALL ADJUST EXISTING AND PROPOSED WATER VALVE COVERS, CLEANOUT COVERS, AND SEWER MANHOLE COVERS, ETC. TO GRADE WHERE NECESSARY.
- 8. ANY RETAINING WALLS SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. A SEPARATE BUILDING PERMIT AND INSPECTION WILL BE REQUIRED FROM THE BUILDING INSPECTION DEPARTMENT FOR THEIR CONSTRUCTION. TOP OF WALLS; TOP OF FOOTINGS AND WALL HEIGHTS SHOWN ON THESE PLANS ARE GENERAL IN NATURE AND SHOULD NOT BE USED IN CONSTRUCTION.
- THE BOTTOM OF ALL EXCAVATIONS SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER.
- 10. CONTRACTOR TO REMOVE/REPLACE/RELOCATE ANY LANDSCAPING OR HARDSCAPING WHICH CONFLICTS IN ANY WAY WITH THE INSTALLATION OR PROPER FUNCTIONING OF THE PROPOSED IMPROVEMENTS.
- 11. THE CONTRACTOR SHALL REPLACE ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS EQUAL TO OR SUPERIOR.
- 12. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL COORDINATE PLANS WITH ALL OTHER DISCIPLINES AND NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES.
- 13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER TO ACQUIRE AND ENFORCE ALL NECESSARY TRAFFIC CONTROL PERMITS NEEDED TO SAFELY CONDUCT WORK IN THE PUBLIC RIGHT OF WAY. CONTRACTOR OR DEVELOPER/OWNER MUST COORDINATE ALL TRAFFIC CONTROL WITH THE AGENCY OF JURISDICTION.
- 14. CONTRACTOR SHALL EMPLOY INDIVIDUALS WHO ARE FAMILIAR WITH ALL CODES RELATED TO THE VARIOUS AREAS OF WORK AND CONSTRUCT THE INTENT OF THESE PLANS TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 15. DURING ACTIVE CONSTRUCTION AREAS SHALL BE WATERED TO REDUCE FUGITIVE DUST.
- 16. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND. INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGE. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- 17. CONTRACTOR SHALL CONSTRUCT AREA DRAINS ABOVE FINISHED GRADE ELEVATION AND ARE TO BE ADJUSTED TO MATCH FINISHED GRADES (AS SHOWN ON THESE PLANS) AND PROVIDE POSITIVE DRAINAGE, SHALL ANY DISCREPANCY ARISE, THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF WORK IMMEDIATELY.
- 18. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS AND UNDERCUTS FOR SOIL AMENDMENTS, SODS ETC. TO ENSURE THAT THE FINISHED GRADES ARE ESTABLISHED AS INDICATED ON THESE PLANS. THE GRADES REFLECTED HEREON SHALL BE DELIVERED AS THE FINAL CONDITION, POST LANDSCAPING.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, PADS, CURBS, INLETS AND SIDEWALKS ARE BUILT IN ACCORDANCE WITH THESE PLANS AND APPLICABLE CODES AND LAWS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CONTACTING THE ENGINEER. IF STAKING IS PROVIDED. CONTRACTOR SHALL REVIEW STAKES PRIOR TO CONSTRUCTION ITEM. COMPARE STAKES AND CUT SHEETS TO THE PLANS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
- 20. ALL CONCRETE REMOVALS SHALL BE TO THE NEAREST WEAKENED PLANE JOINT, UNLESS OTHERWISE DELINEATED ON PLAN.
- 21. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF MONUMENTS OF ANY SURVEY MONUMENTS DAMAGED DURING CONSTRUCTION MONUMENTS SHALL BE REPLACE AT THE CONTRACTOR'S EXPENSE.
- 22. CONTRACTOR TO PROTECT ALL EXISTING SIGNS IN PLACE AND REPLACE ANY SIGNS DAMAGED DURING
- 23. PROVIDE 36 INCHES MINIMUM COVER (FINISH GRADE TO TOP OF PIPE) OVER FIRE SERVICE. UNLESS OTHERWISE NOTED ON PLANS.

SPECIAL NOTES (CONT.

- 24. CONTRACTOR SHALL POTHOLE ALL WET UTILITY CROSSINGS PRIOR TO CONSTRUCTION TO ENSURE EXISTING IMPROVEMENTS ALIGNMENT AND GRADE CONFORMANCE TO PLANS. IF DISCREPANCIES ARE NOTICED, NOTIFY ENGINEER OF WORK PRIOR TO INSTALLATION SO ENGINEER CAN MAKE ADJUSTMENTS TO ALIGNMENT AND/OR GRADE OF PROPOSED IMPROVEMENTS.
- 25. CONTRACTOR TO RESTRIPE ALL DESTROYED, DAMAGED AND/OR REMOVED PAVEMENT MARKINGS DURING CONSTRUCTION IN KIND, ANY DAMAGED THERMAL STRIPES/LEGENDS SHALL BE REMOVED BY GRINDING AND REPLACED IN WHOLE IN KIND.
- 26. THE CONTRACTOR SHALL CHECK DRAINAGE PATTERNS BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT, GUTTERS OR CURBS DURING FORMWORK OF PROPOSED IMPROVEMENT. 1% MINIMUM GRADES SHALL BE MAINTAINED IN PROPOSED PAVEMENT SURFACES DRAINING TOWARDS ACCEPTING AREA. FORMS SHALL BE CHECKED AND ADJUSTED PRIOR TO POURING CONCRETE. ENGINEER OF RECORD SHALL BE NOTIFIED TO INSPECT ALL FORMS PRIOR TO POURING CONCRETE. CONTRACTOR SHALL ADJUST FORMS PER ENGINEERING OF RECORD'S DIRECTION.
- 27. CONTOURS SHALL BE USED AS GRADE BREAKS.

STRIPING AND SIGNING GENERAL NOTES

- 1. THE CONTRACTOR SHALL STRIPE AND REPLACE ALL EXISTING STRIPING AND PAVEMENT MARKERS AS SHOWN ON THE PLANS.
- 2. NEW STRIPING SHALL BE APPLIED IN 2 COATS. EXISTING STRIPING TO REMAIN MAY BE PAINTED OVER WITH ONE COAT.
- 3. THE CONTRACTOR SHALL REMOVE BY MECHANICAL MEANS ALL CONFLICTING STRIPING, MARKERS AND PAVEMENT LEGENDS WITHIN THE AREA OF THE NEW STRIPING.
- 4. ALL DEBRIS TO BE REMOVED AT THE END OF EACH WORK DAY.
- 5. STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO SECTIONS 84 AND 85 OF THE CALTRANS STANDARD SPECIFICATIONS. ALIGNMENT AND LAYOUT IS SUBJECT O CITY OF SOLANA BEACH ENGINEERING DEPARTMENT
- 6. PAINT FOR TRAFFIC STRIPS SHALL BE RAPID DRY WATERBORNE, WHITE AND YELLOW 8010-42L-30 OR 8010-61G-10. GLASS BEADS SHALL CONFORM TO STANDARD SPECIFICATIONS NUMBER 8010-51J-22 (TYPE 1 - MOISTURE PROOF).
- 7. THINNING OF PAINT WILL NOT BE ALLOWED.
- 8. THERMOPLASTIC SHALL BE USED FOR PAVEMENT LEGENDS AND CROSSWALKS.
- 9. INSTALL REFLECTIVE PAVEMENT MARKERS WHERE MISSING IN EXISTING PAVING.
- 10. ARROWS PER CALTRANS TYPE 1 (10'), TYPE I & TYPE VII.
- 11. SIGNING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD, 2012 EDITION), CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THESE PLANS.
- 12. THE CONTRACTOR SHALL RESTORE OR REPLACE ALL EXISTING IMPROVEMENTS DISTURBED DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO STREET STRIPING, RAISED PAVEMENT MARKERS, LANDSCAPING, AND SIGNS.
- 13. SIGN STRUCTURES AND ROADSIDE SIGNS SHALL BE AS SPECIFIED IN SECTION 56 OF THE STATE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.
- 14. STREET NAME SIGNS SHALL BE PER CA MUTCD SPECIFICATIONS.
- 15. ALL SIGNS SHALL BE REFLECTIVE PER CA MUTCD SPECIFICATIONS.
- 16. ALL REGULATORY AND WARNING SIGNS SHALL BE CONSTRUCTED TO THE STANDARD SIZE AND SPECIFICATIONS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
- 17. SIGNS SHALL BE INSTALLED AS PER THESE SPECIFICATIONS AND FACING TRAFFIC IN THE LANE ADJACENT TO WHICH THE SIGN IS INSTALLED. ALL OTHER SIGNS SHALL BE INSTALLED AT AN ANGLE TOWARD THE TRAVELED WAY PER THE SIGN MANUFACTURER'S REFLECTIVE REQUIREMENTS.
- 18. SIGNS IN THE MEDIAN AREA SHALL BE PLACED MIDWAY BETWEEN CURBS. THESE SIGNS SHALL BE MOUNTED NO CLOSER THAN 12 INCHES FROM THE EDGE OF PAVEMENT, AND NO FURTHER THAN 6 FEET FROM, THE EDGE OF THE TRAVELED WAY WHICH THE SIGN FACES.
- 19. THE MINIMUM MOUNTING HEIGHT FOR ALL SIGNS LOCATED WITHIN A PEDESTRIAN PATH OF TRAVEL SHALL BE SEVEN FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT,
- 20. THE MOUNTING HEIGHT OF ROUNDABOUT DIRECTIONAL ARROWS INSTALLED IN THE CENTER ISLAND SHALL BE 4 FEET. MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF THE TRAVELED WAY.
- 21. SIGNS SHALL BE INSTALLED ON STREET LIGHT POLES WHERE APPLICABLE AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL NOTES

TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR FOR HIS WORK. TRAFFIC CONTROL SHALL CONFORM TO THE CALTRANS TRAFFIC MANUAL. TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE. AND THE REGIONAL STANDARD DRAWINGS. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND RECEIVE CITY APPROVAL FOR TRAFFIC CONTROL THAT DIFFERS FROM THOSE PLANS INCLUDED IN THE REGIONAL STANDARD DRAWINGS.

EXISTING UTILITY NOTE

APP'D DATE

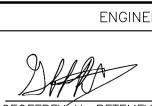
THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS BASED ON AVAILABLE AS-BUILT RECORD INFORMATION WHICH MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 1-800-227-2600.

AS-BUILT PLAN CODE GN-1 R.C.E.:_____



5050 Avenida Encinas Carlsbad, CA 92008 Phone: (760) 476-9193





ENGINEER OF WORK

EOFFREY H. RETEMEYER RCE 90577

CITY APPROVED CHANGES

RECOMMENDED FOR APPROVAL APPROVED FOR CONSTRUCTION Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25 R.C.E.: Exp:

Date: 05/01/2025 OCATION:

DESCRIPTION: DATUM: M.S.L.

BENCH MARK

CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR ENGINEERING DEPARTMENT DRAWING NO. GENERAL NOTES CG-3185

Sheet 2 of 54

STORM DRAIN MARKERS

1. ALL NEW OR REPLACED STORM DRAIN INLETS SHALL HAVE A TILE PERMANENTLY AFFIXED ON THE CURB FACE OF EACH SIDE OF THE INLET OPENING WITH THE FOLLOWING MESSAGE ON IT: "NO DUMPING, THIS DRAINS TO OCEAN," INCLUDING A FISH STENCIL.

2. THE SIZE, COLOR AND DESIGN SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER. THE TILE MARKER SHALL CONSIST OF A HEAT-FIRED, VITREOUS, CERAMIC BASE AND A HEAT-FIRED, OPAQUE, GLAZED SURFACE. THE BOTTOMS OF THE TILE MARKER SHALL BE FREE FROM GLOSS OR GLAZE AND SHALL HAVE A NUMBER OF INTEGRALLY FORMED PROTRUSIONS PROJECTING FROM THE SURFACE IN A UNIFORM PATTERN.

3. THE TILE MARKER SHALL BE APPLIED WITH AN EPOXY ADHESIVE TO MEET SERVICE REQUIREMENTS FOR HIGHWAY CONSTRUCTION. THE PORTION OF CURB FACE SURFACE TO WHICH THE TILE MARKER IS TO BE BONDED BY THE ADHESIVE SHALL BE FREE OF DIRT, CURING COMPOUND, GREASE, OIL, MOISTURE, LOOSE OF UNSOUND LAYERS, PAINT AND OTHER MATERIAL WHICH WOULD ADVERSELY AFFECT THE BOND OF THE ADHESIVE.

PAVING NOTES

- 1. FINAL STREET STRUCTURAL SECTION SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF BASE MATERIAL. THE DESIGN SHALL BE BASED ON THE "R" VALUE METHOD AND SHALL INCLUDE ALL SUPPORTING CALCULATIONS AND TEST RESULTS. THE TRAFFIC INDEX (T.I.) AND MINIMUM STRUCTURAL SECTIONS SHALL BE USED IN ACCORDANCE WITH THE CITY OF SOLANA BEACH ENGINEERING CONSTRUCTION STANDARDS STREET STRUCTURAL SECTION DESIGN TABLE.
- 2. A COMPACTION REPORT FROM A REGISTERED CIVIL ENGINEER CERTIFYING ALL ROADWAY AND UTILITY TRENCHING HAS BEEN COMPACTED TO THE MINIMUM REQUIREMENTS SPECIFIED IN THE STANDARDS SPECIFICATION FOR PUBLIC WORK CONSTRUCTION AND THE RECOMMENDATIONS OF THE SOIL ENGINEERING CONTAINED IN THE PROJECT'S SOILS REPORT.

(760) 489-3411

UTILITY COORDINATION

THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS, HOWEVER: THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE FOLLOWING OWNERS OF SAID UTILITIES OR STRUCTURES PRIOR TO ANY EXCAVATION, FOR VERIFICATION AND LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK:

A. SEWERS - CSD/ESD

(760) 633–2770 B. GAS & ELECTRIC - SDGE (760) 438–6200 C. WATER - SFID (858) 761-4141

E. CABLE TV - COX COMMUNICATIONS (760) 806-9809 X-2233 F. AT&T TELEPHONE COMPANY (858) 886-2863

TRAFFIC SIGNAL GENERAL NOTES

D. TELEPHONE - SBC BELL

- 1. DETECTOR, POLE, AND PULL BOX LOCATIONS SHOWN ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. CONTRACTORS SHALL OBTAIN APPROVAL FOR LOCATIONS PRIOR TO FINAL PLACEMENT.
- 2. THE SHOWN LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SUBSTRUCTURES, WHETHER SHOWN HERE IN OR NOT AND PROTECTING THEM FROM DAMAGE. THE EXPENSE OF REPAIR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. HAND DIG FOUNDATIONS UNTIL CLEAR OF SUBSTRUCTURES. IF REQUIRED TO PROTECT UTILITIES, PHONE "UNDERGROUND SERVICE ALERT" AT (800) 422-4133.
- 3. ALL NEW LOOP DETECTORS SHALL BE TYPE E LOOPS AND CENTERED IN LANE UNLESS SHOWN OTHERWISE. INSTALL TYPE F LOOP DETECTORS ON ALL FRONT LOOPS AS SHOWN ON THIS PLAN. SEE SAWCUT AND WINDING DETAIL THIS SHEET.
- 4. ALL TRAFFIC SIGNAL, HIGHWAY LIGHTING, SIGNING AND STRIPING SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND SPECIFICATIONS, 2018 EDITION.
- 5. ALL ABBREVIATIONS AND SYMBOLS USED ARE SHOWN ON CALTRANS STANDARD PLAN AS DEFINED ON PLAN.
- 6. ALL LOCATIONS OF DETECTOR LOOP, SIGNAL POLE AND CABINET REQUIRE ENGINEER'S APPROVAL PRIOR TO SAW CUTTING OR EXCAVATION.
- 7. CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS AND CABLES REQUIRED FOR THE INTENDED OPERATION.
- 8. UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT REQUIRED FOR THE INTENDED OPERATION.
- 9. IT IS REQUIRED TO MAINTAIN SIGNAL OPERATION INCLUDING SIGNAL INTERCONNECT DURING MODIFICATION OF EXISTING TRAFFIC SIGNAL SYSTEM.
- 10. ALL CONSTRUCTION OPERATIONS SHALL BE LIMITED TO THE PERIOD BETWEEN 9:00AM AND 3:00PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER.
- 11. CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGH THE CONSTRUCTION AREA AND PROVIDE ALL NECESSARY CONSTRUCTION WARNING SIGNS AND MARKINGS REQUIRED. CONTRACTOR IS TO SUBMIT A TRAFFIC CONTROL PLAN BEFORE ANY WORK IS STARTED.

SANTA FE IRRIGATION DISTRICT (SFID) WATER NOTES

- 1. UNLESS EXPLICITLY CALLED OUT DIFFERENTLY ON THE APPROVED PLANS AND SPECIFICATIONS, ALL POTABLE WATER CONSTRUCTION AND RECYCLED WATER CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SAN DIEGO WATER AGENCIES' STANDARDS (WAS). CURRENT WAS REQUIREMENTS CAN BE FOUND AT WWW.SDWAS.ORG.
- 2. ALL EXISTING WATER INFRASTRUCTURE IS TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS OR IN WRITTEN APPROVAL FROM SANTA FE IRRIGATION DISTRICT.
- 3. THE SANTA FE IRRIGATION DISTRICT AND/OR ITS DESIGNATED REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSPECTION. WHERE USED IN THESE DRAWINGS, THE TERM INSPECTOR SHALL BE KNOWN TO REFER TO THE SANTA FE IRRIGATION DISTRICT'S INSPECTOR.
- 4. THE CONTRACTOR SHALL NOTIFY SFID 24 HOURS IN ADVANCE FOR INSPECTION
- 5. ALL TESTING AND CERTIFICATIONS REQUIRED FOR THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL TESTING. THIS INCLUDES COMPACTION TESTING. DISINFECTION TESTING. CONCRETE TESTING. AND/OR ANY OTHER TESTING REQUIREMENTS ASSOCIATED WITH THIS PROJECT. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH WAS OR OTHER APPLICABLE STANDARDS. ALL TESTING AND PROVISION OF TESTING RESULTS SHALL BE COORDINATED CLOSELY WITH THE INSPECTOR. THE INSPECTOR SHALL BE RESPONSIBLE FOR REVIEWING AND APPROVING ALL TEST RESULTS.
- 6. DISINFECTION OF WATER MAINS SHALL BE ACCORDANCE WITH WAS.
- 7. ANY AND ALL REQUIRED PERMITS SHALL BE PROCURED, PAID FOR, AND ADHERED BY THE CONTRACTOR. THIS INCLUDES TRAFFIC CONTROL, EXCAVATION, AND ALL OTHER PERMITS ASSOCIATED WITH THIS PROJECT.
- 8. FOR WORK OVER EXISTING FACILITIES, HEAVY EQUIPMENT (ABOVE H20 LOADING) SHALL NOT BE USED WHEN COVER OVER THE WATER MAIN IS LESS THAN 36 INCHES THROUGH ALL PHASES OF CONSTRUCTION, INCLUDING THE REMOVAL, OVER EXCAVATION, AND/OR INSTALLATION OF PAVEMENT SECTIONS, WITHOUT THE WRITTEN APPROVAL OF SFID.
- 9. THE CONTRACTOR SHALL POTHOLE ALL TIE-IN AND POTENTIAL CONFLICT LOCATIONS BEFORE WORK COMMENCES. ANY DISCREPANCIES WITH THE APPROVED PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR PRIOR TO PROCEEDING, APPROVAL OF THIS PLAN BY THE CITY OR SFID DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF, OR THE EXISTENCE OR NON-EXISTENCE OF , ANY UNDERGROUND UTILITY, PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS
- 10. BEFORE EXCAVATION, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR IS REQUIRED TO CALL DIG ALERT: 811. CALL A MINIMUM OF TWO WORK DAYS PRIOR TO EXCAVATION.
- 11. CONTRACTOR TO PROVIDE CONSTRUCTION STAKING AND THREE (3) SETS OR CUTSHEETS TO THE INSPECTOR 24 HOURS PRIOR TO EXCAVATING.
- 12. NO PERSONS, OTHER THAN AN EMPLOYEE OF SFID, SHALL HAVE A RIGHT TO OPERATE ANY PART OF SFID'S DISTRIBUTION SYSTEM. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES, BUT SHALL REQUEST THAT THE INSPECTOR CONTACT SFID TO SCHEDULE VALVE OPERATION. ONCE THE NEW IMPROVEMENT IS CONNECTED TO THE EXISTING, ALL VALVES ON THE NEW SYSTEM SHALL ONLY BE OPERATED BY SFID.
- 13. ALL TRENCHES SHALL BE PLATED FOLLOWING THE COMPLETION OF EACH DAY'S WORK.
- 14. ALL VALVES INSTALLED SHALL BE HOLIDAY-FREE GATE VALVES, IN ACCORDANCE WITH WAS WV-01, UNLESS OTHERWISE NOTED ON THE PLANS. CONTRACTOR SHALL PAINT ALL VALVE CAN LIDS PER SFID'S COLOR
- 15. VALVES SHALL HAVE A MINIMUM OF 1.5' OF COVER FROM THE TOP OF NUT/OPERATOR TO GROUND SURFACE. IF LESS THAN THIS EXISTS, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- 16. THE CONTRACTOR SHALL FURNISH ALL NEW WATER METER, BOXES PER SFID REQUIREMENTS. WATER METERS TO BE FURNISHED AND INSTALLED BY SFID.
- 17. SOILS REPORT ON ALL BACKFILL SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND SFID BY THE SOILS ENGINEER OF RECORD, CERTIFYING BACKFILL COMPACTION PER THE SOILS ENGINEER IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS.
- 18. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR OTHER APPURTENANCE WITHOUT FIRST OBTAINING WRITTEN AUTHORIZATION FROM SFID. THE CONTRACTOR SHALL OBTAIN A TEMPORARY CONSTRUCTION METER FOR THE PURCHASE OF CONSTRUCTION WATER.
- 19. DEVIATIONS FROM THE APPROVED PLANS SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL BY THE CITY'S ENGINEER AND SFID. THE CONTRACTOR SHALL MAINTAIN REDLINE DRAWINGS SHOWING ANY CONSTRUCTION CHANGES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL FURNISH REDLINES TO THE INSPECTOR FOR INCORPORATION INTO AS-BUILT DRAWINGS.
- 20. EMPLOYEES OF SFID TO RELOCATE ALL POTABLE WATER AND RECYCLED WATER METERS.
- 21. CONTRACTOR TO NOTIFY SFID TO BE PRESENT DURING INSTALLATION OF TRAFFIC SIGNAL LOOPS OVER POTABLE WATER LINES.
- 22. CONTRACTOR TO MAINTAIN MINIMUM 5' HORIZONTAL CLEARANCE BETWEEN PUBLIC WATER FACILITIES AND PROPOSED LANDSCAPING. CONTRACTOR TO CONTACT SFID FOR ANY DISCREPANCIES.

AS-BUILT **PLAN CODE**

GN-2

R.C.E.:_____ Exp: ____

Michael Baker NTERNATIONAL MBAKERINTL.COM

5050 Avenida Encinas Carlsbad, CA 92008 Phone: (760) 476-9193

GEOFFREY H. RETEMEYER RCE 90577

ENGINEER OF WORK CITY APPROVED CHANGES l app'd I date

RECOMMENDED FOR APPROVAL APPROVED FOR CONSTRUCTION Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25 R.C.E.: Exp:

DESCRIPTION: Date: 05/01/2025 LOCATION: DATUM: M.S.L.

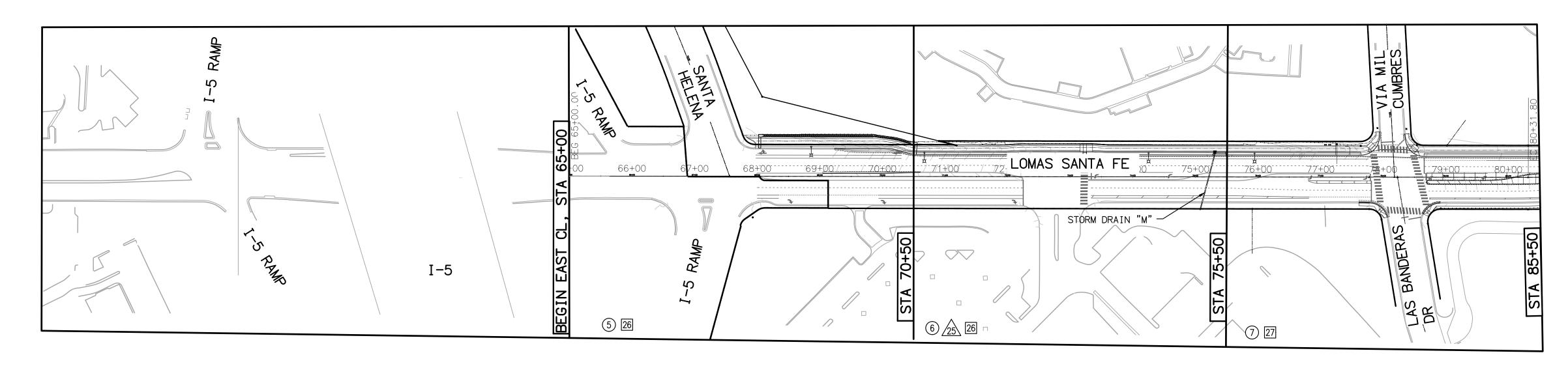
BENCH MARK

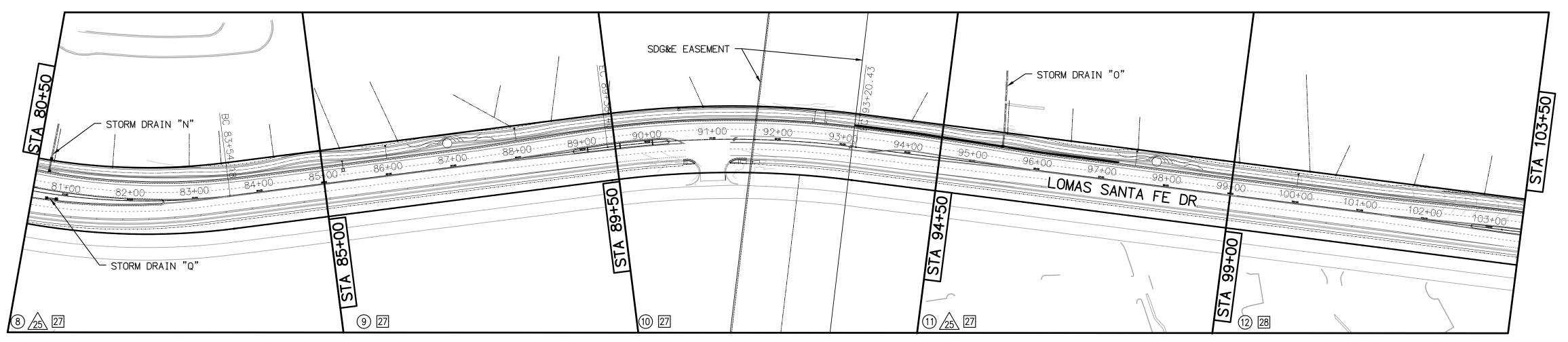
IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

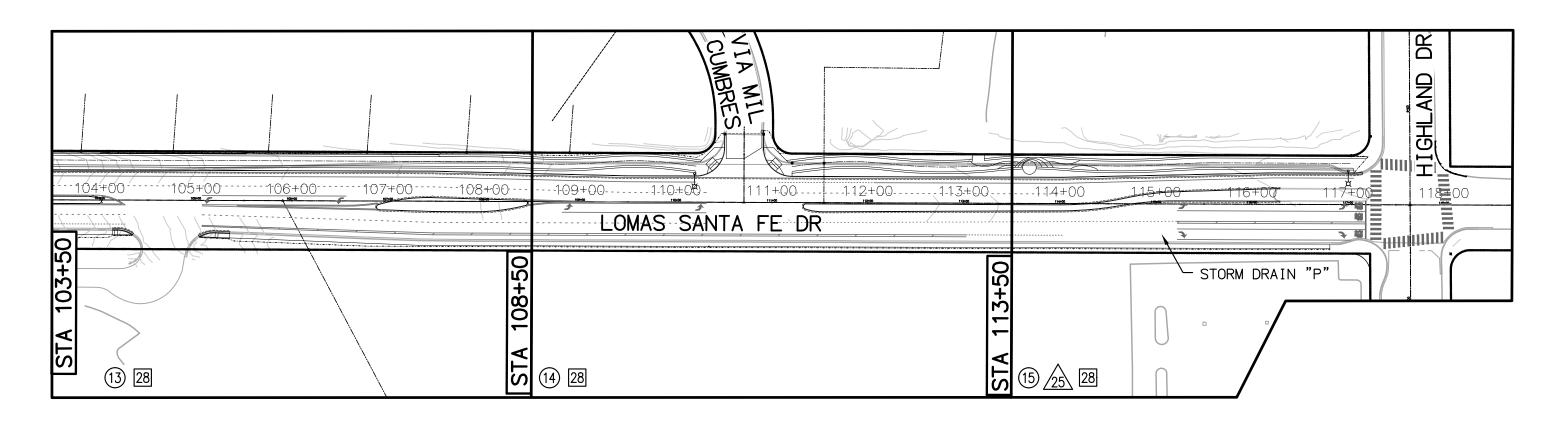
CITY OF SOLANA BEACH

ENGINEERING DEPARTMENT DRAWING NO. GENERAL NOTES CG-3185

Sheet **3** of 54





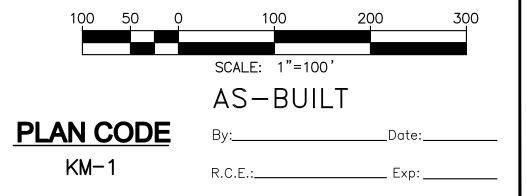


KEY MAP LEGEND

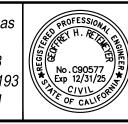
XX IMPROVEMENT PLAN SHEET NUMBER

STORM DRAIN PLAN SHEET NUMBER

XX SIGNING AND STRIPING PLAN SHEET NUMBER



Michael Baker	5050 Avenida Encinas Suite 260 Carlsbad, CA 92008	
INTERNATIONAL	Phone: (760) 476-9193 MBAKERINTL.COM	



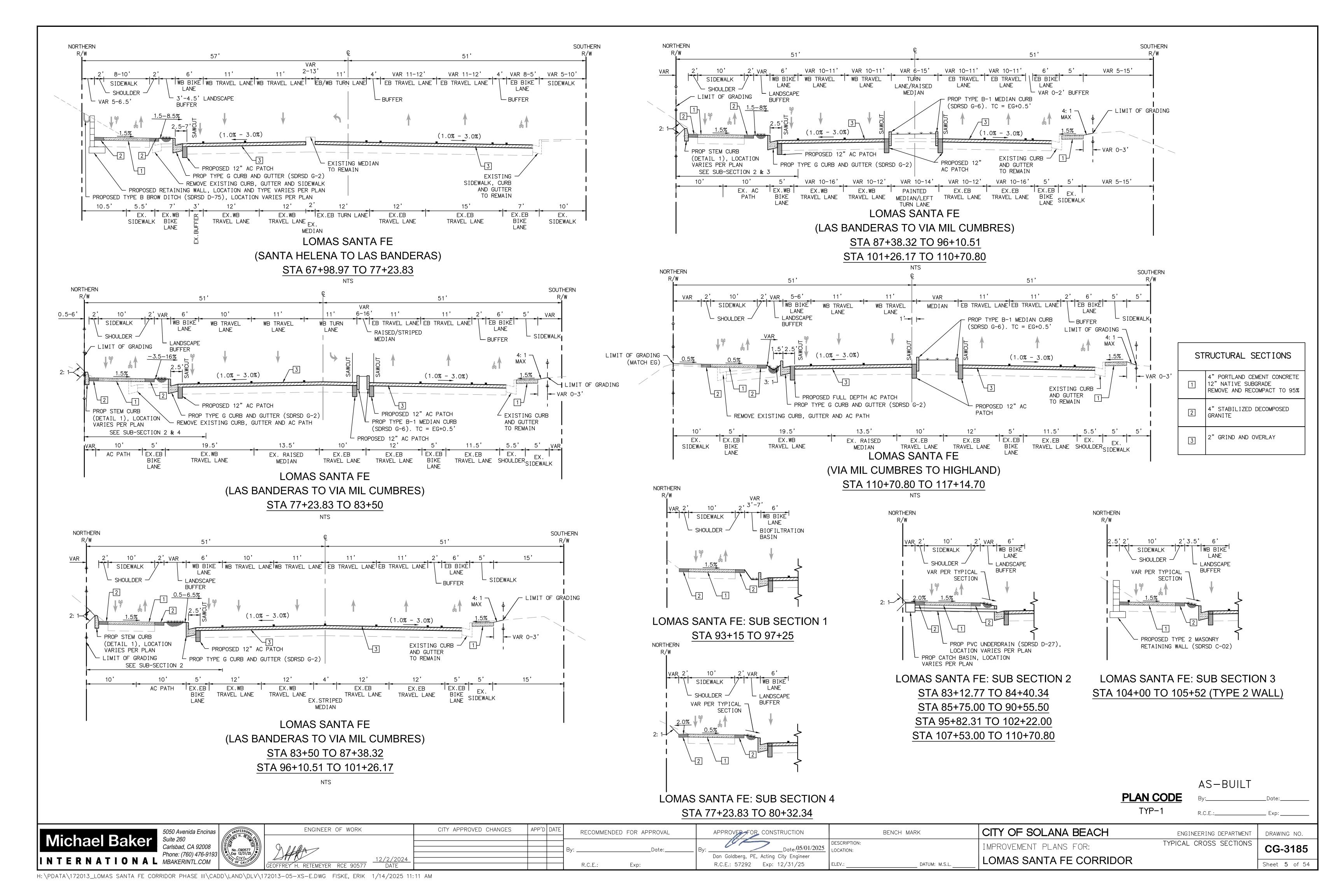
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GEOFFREY H.	RE

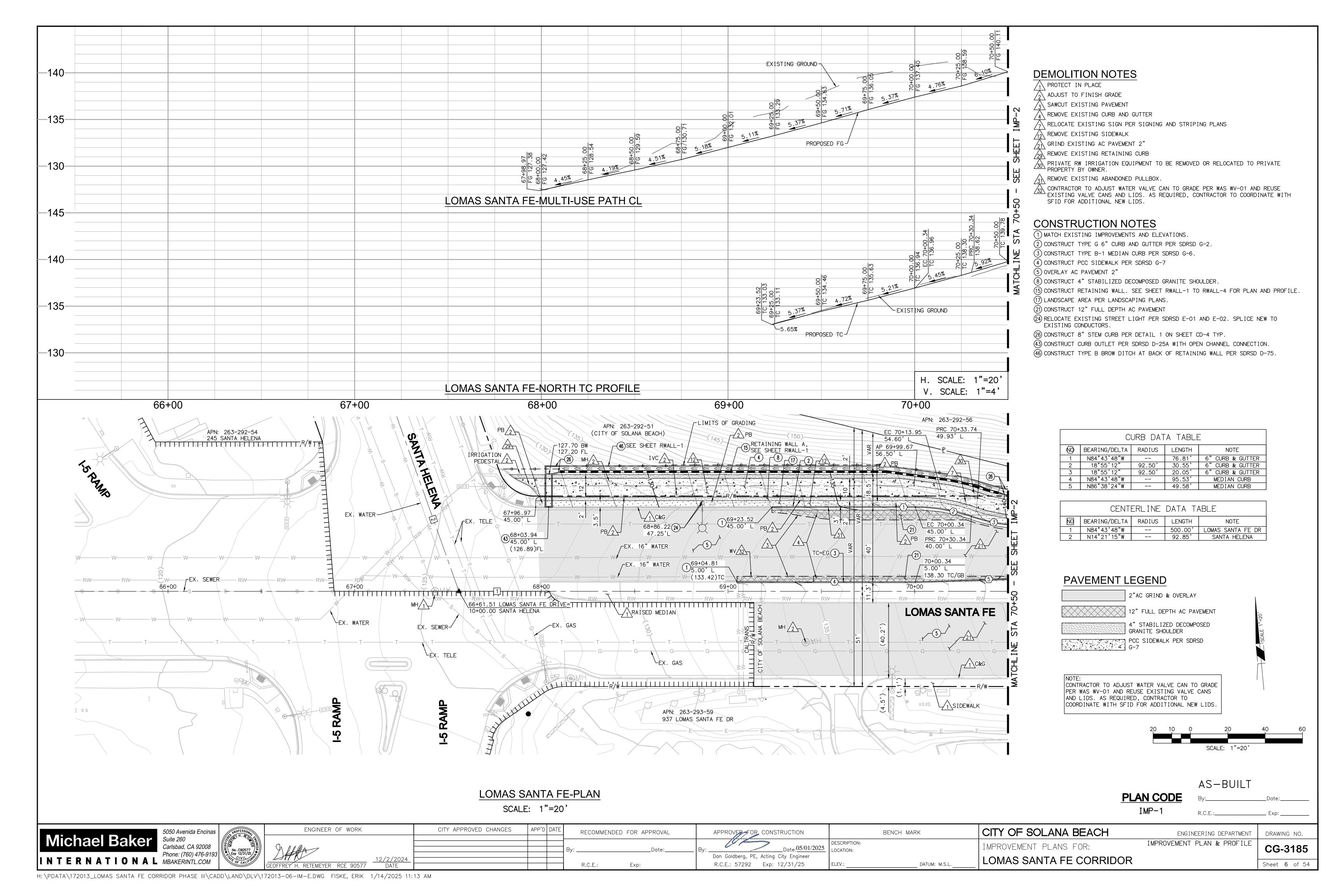
ENGINEER OF WORK		CITY APPROVED CHANGES
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	, ,	
	12/2/2024	
EY H. RETEMEYER RCE 90577	DATE	

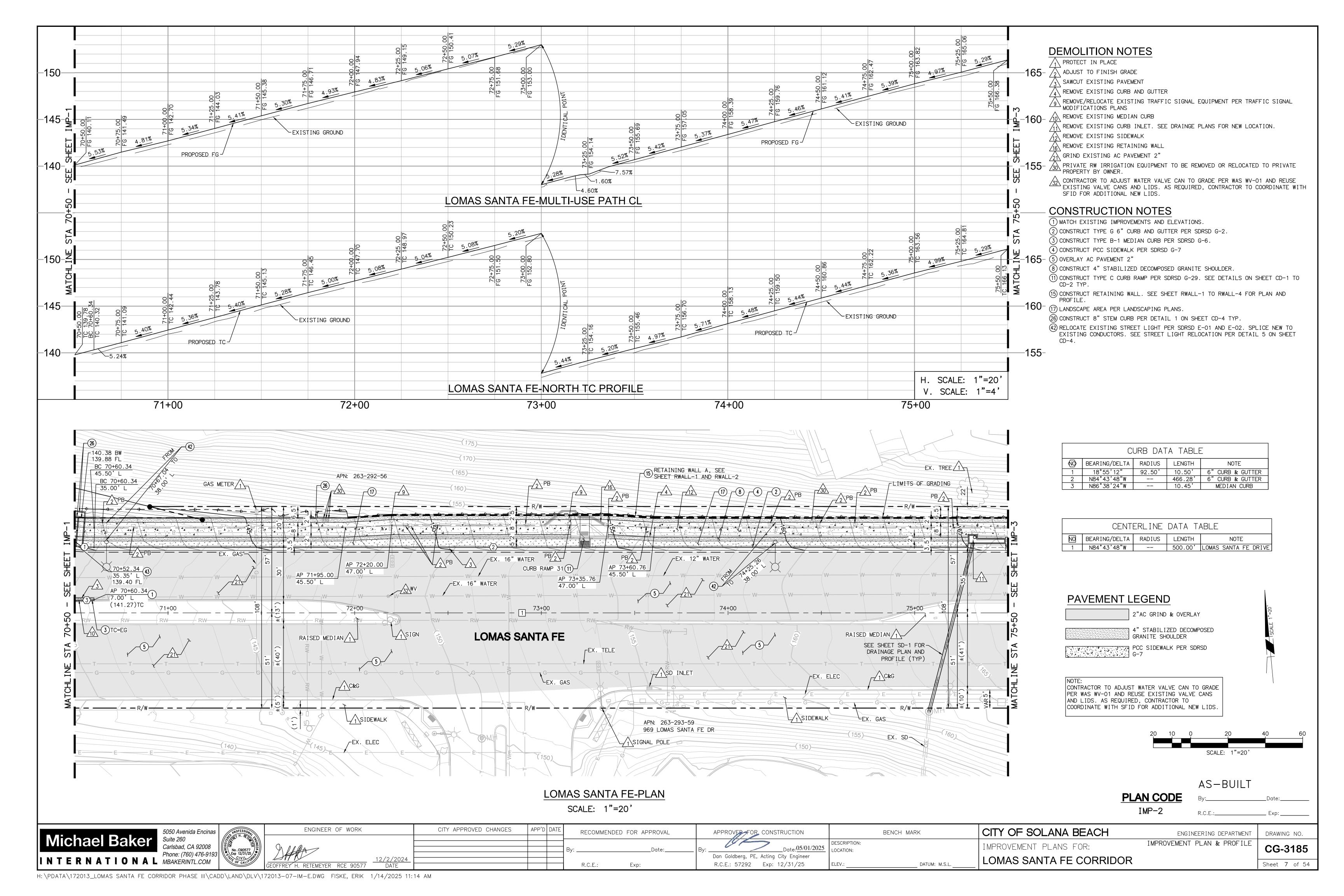
DATE		RECOMMENDED	FOR AF	PPROVAL		APP	ROVED	FOR	CONS	STRUCTION
							14/		>	
	Ву: _			Date:	Ву: _			_		Date:05/01
						Dan	Goldberg,	PΕ,	Acting	City Engineer
		R.C.E.:	Exp:							12/31/25

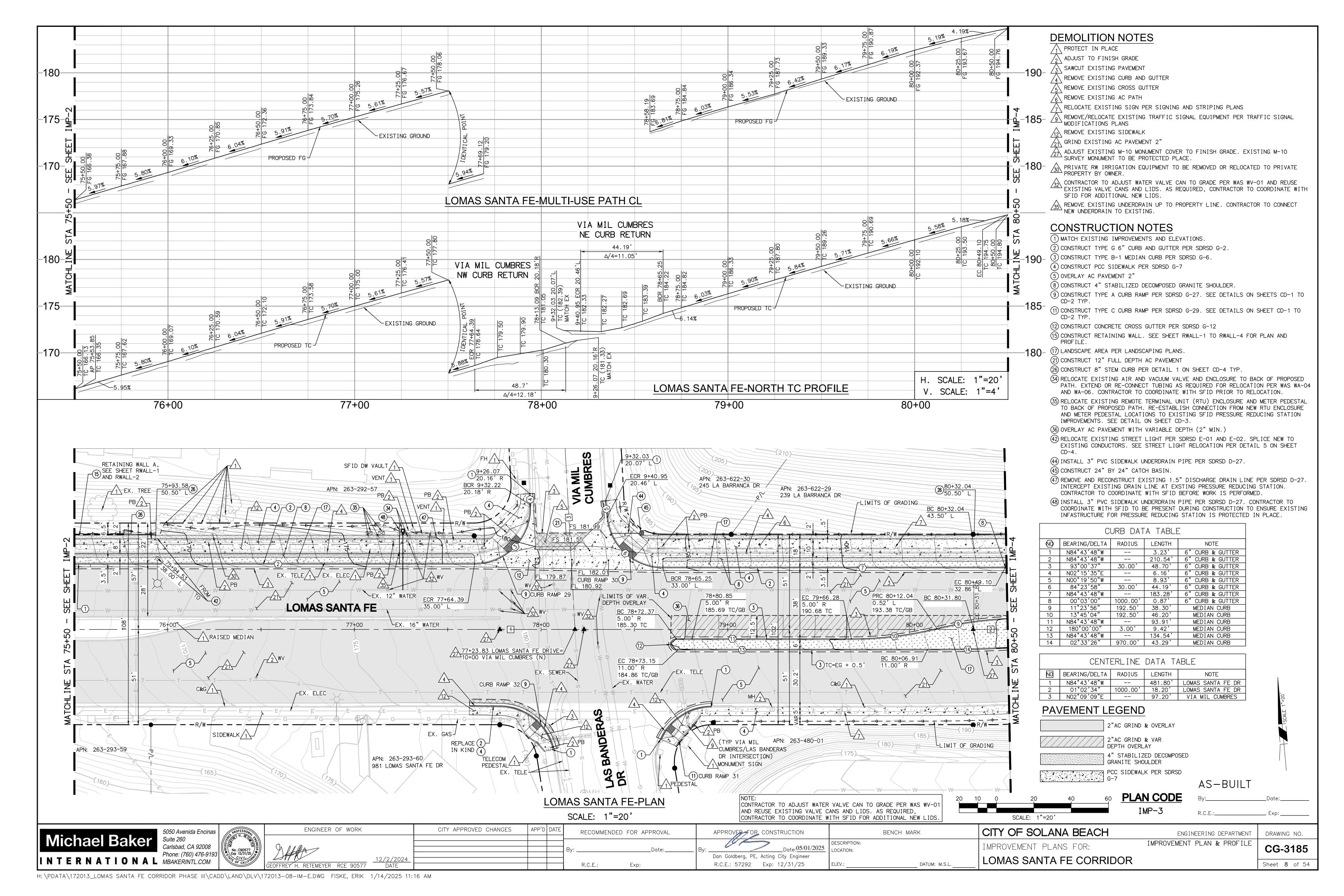
N		BENCH	MARK	
5/01/2025	DESCRIPTION: LOCATION:			
neer	2007.1110111			
5	ELEV.:		DATUM:	M.S.L.

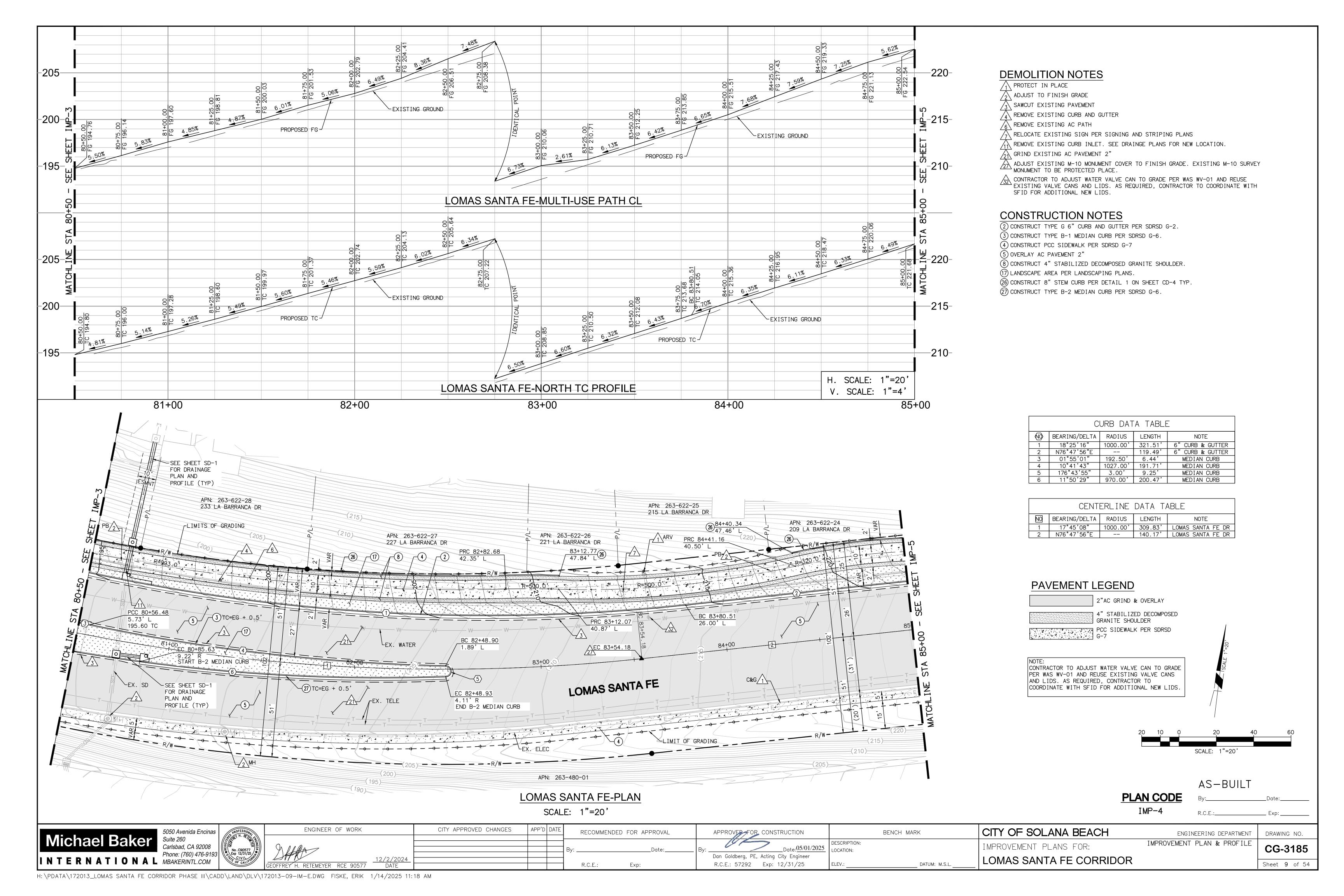
CITY OF SOLANA BEACH	Ε
IMPROVEMENT PLANS FOR:	
LOMAS SANTA FE CORRIDOR	

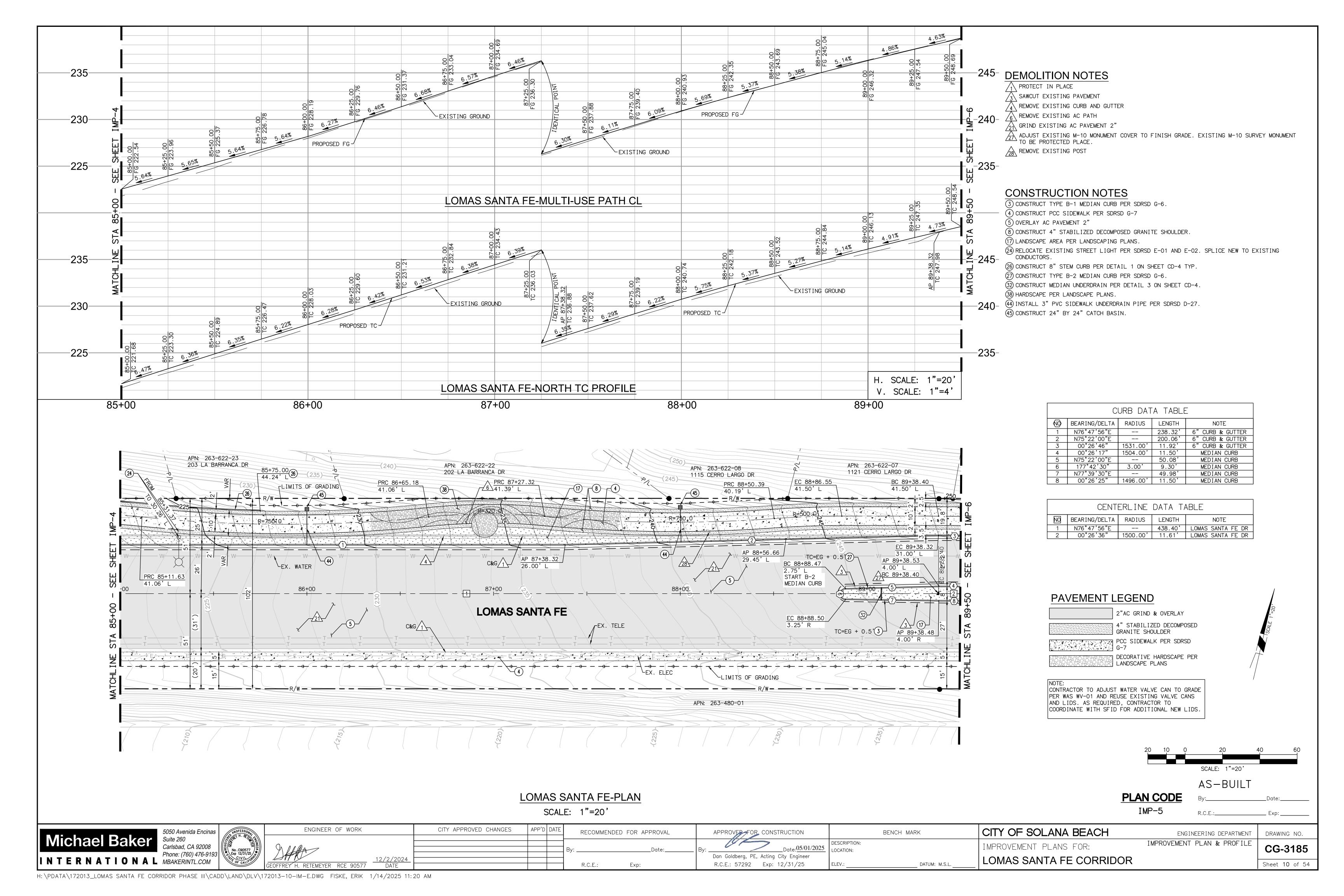


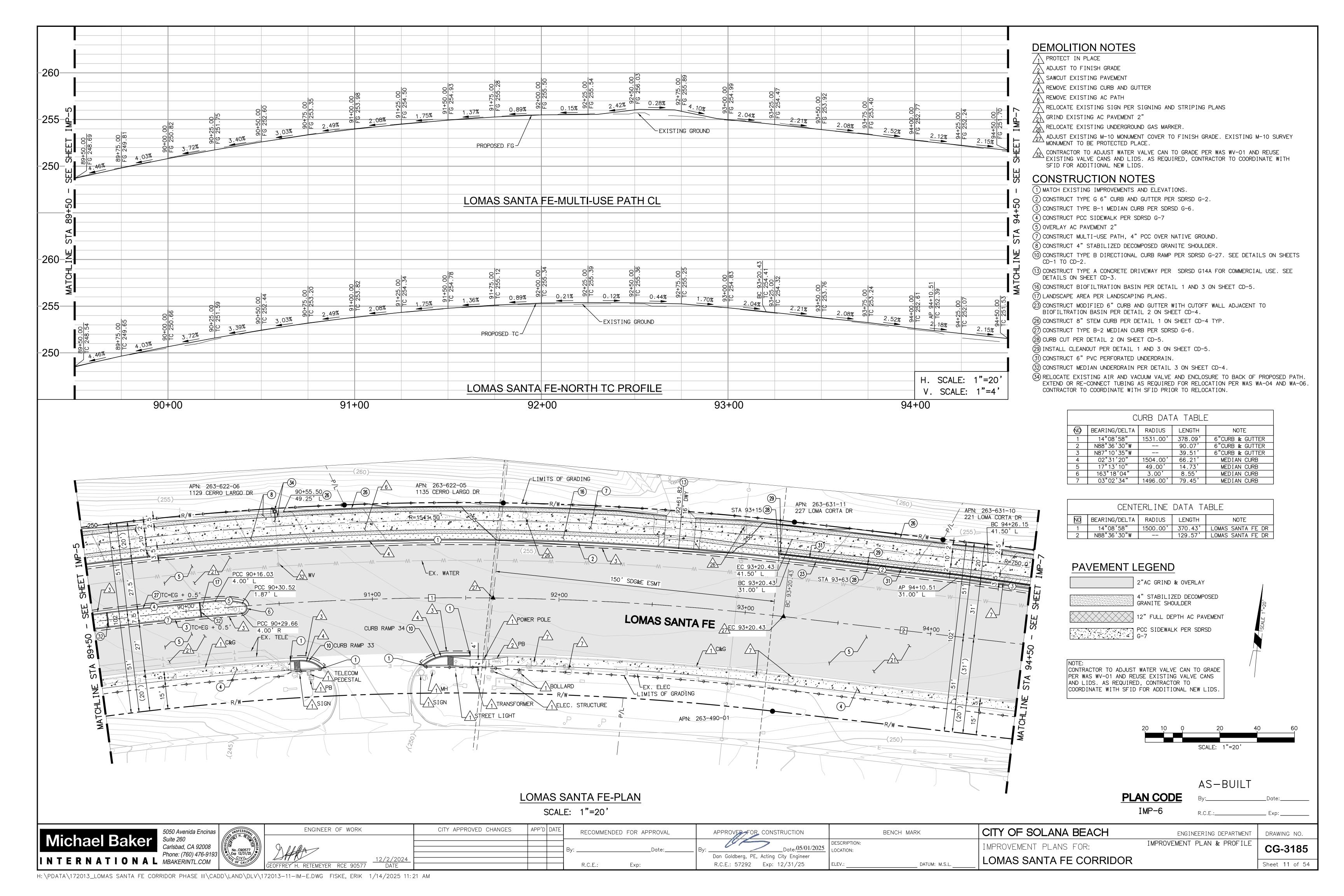


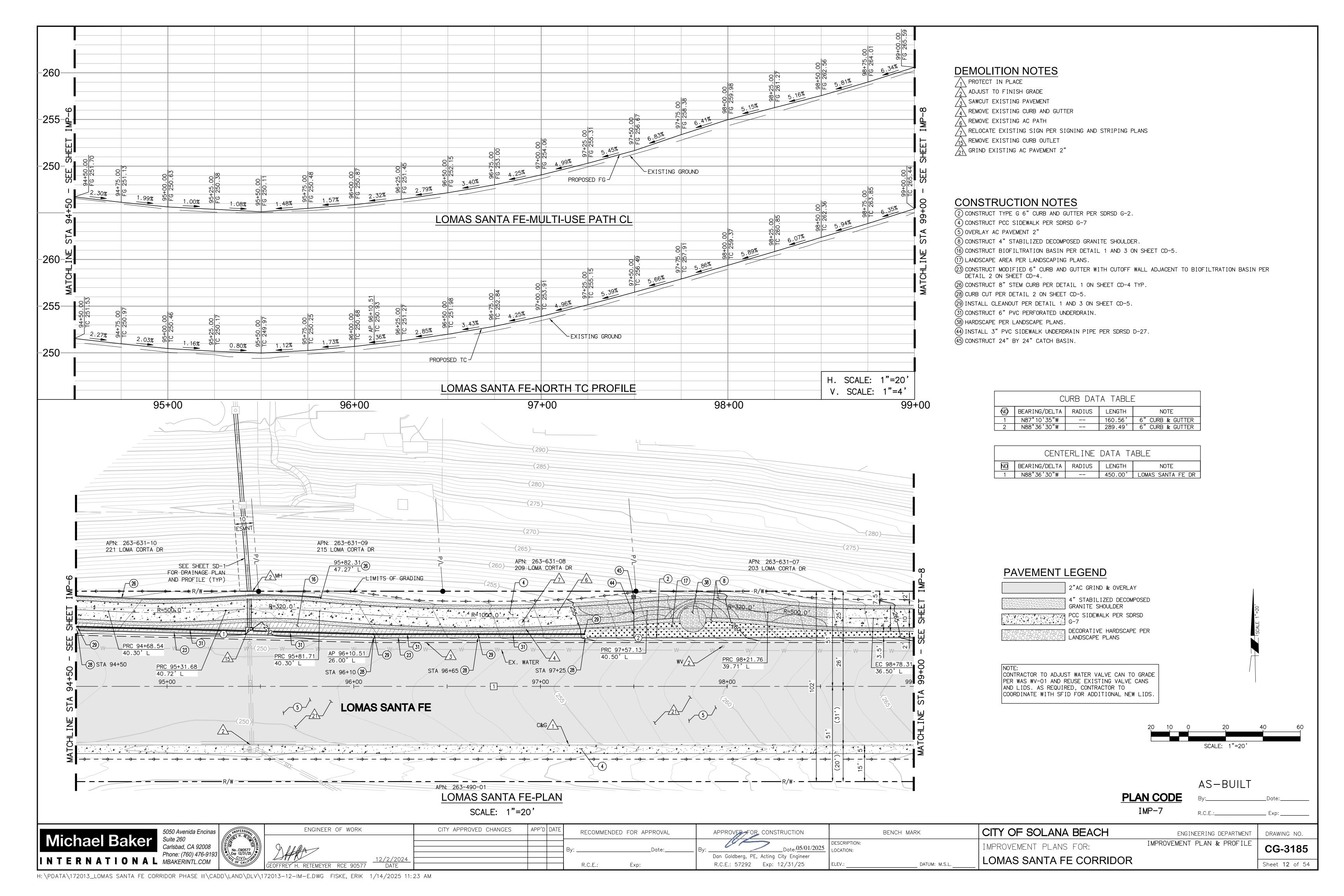


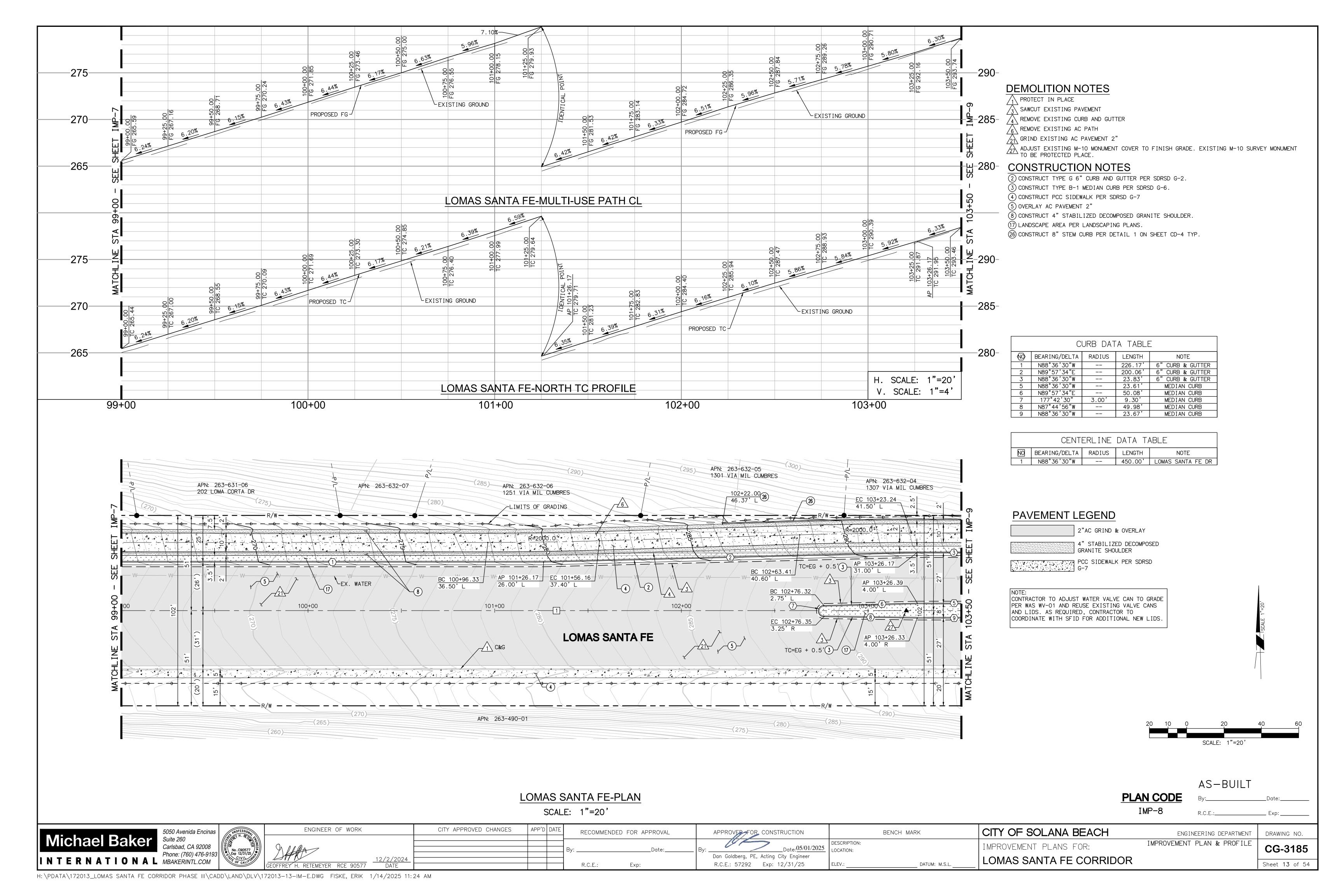


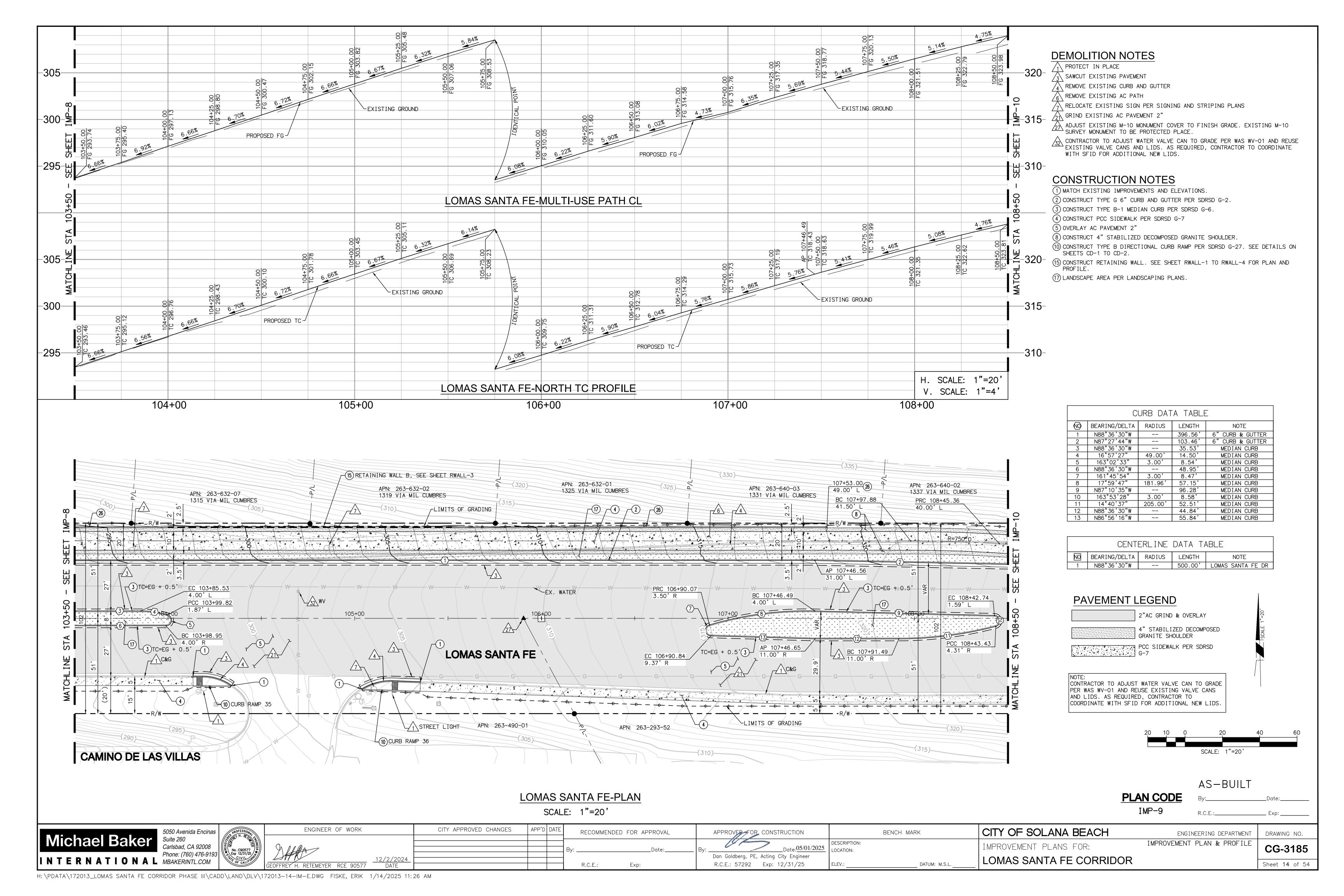


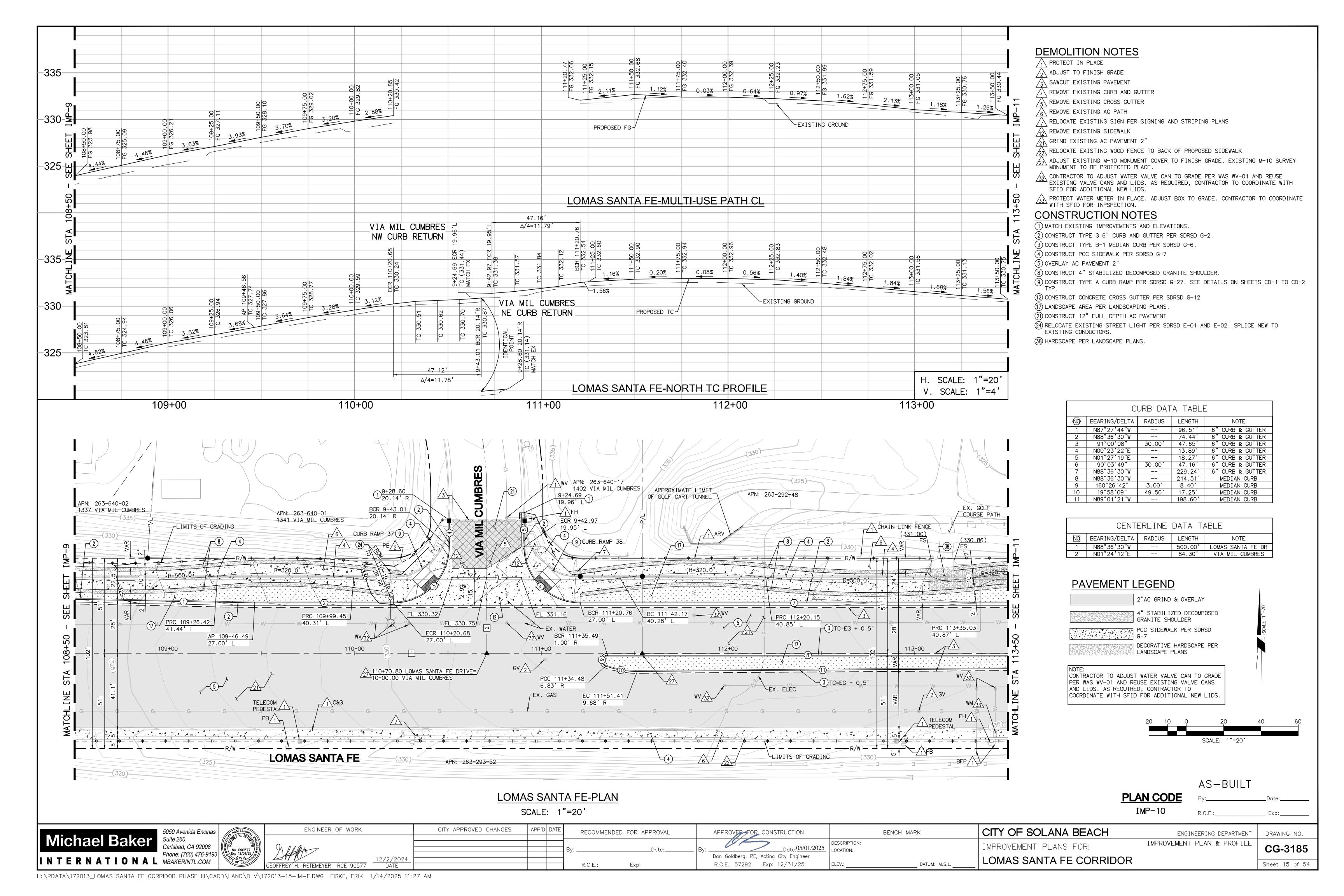


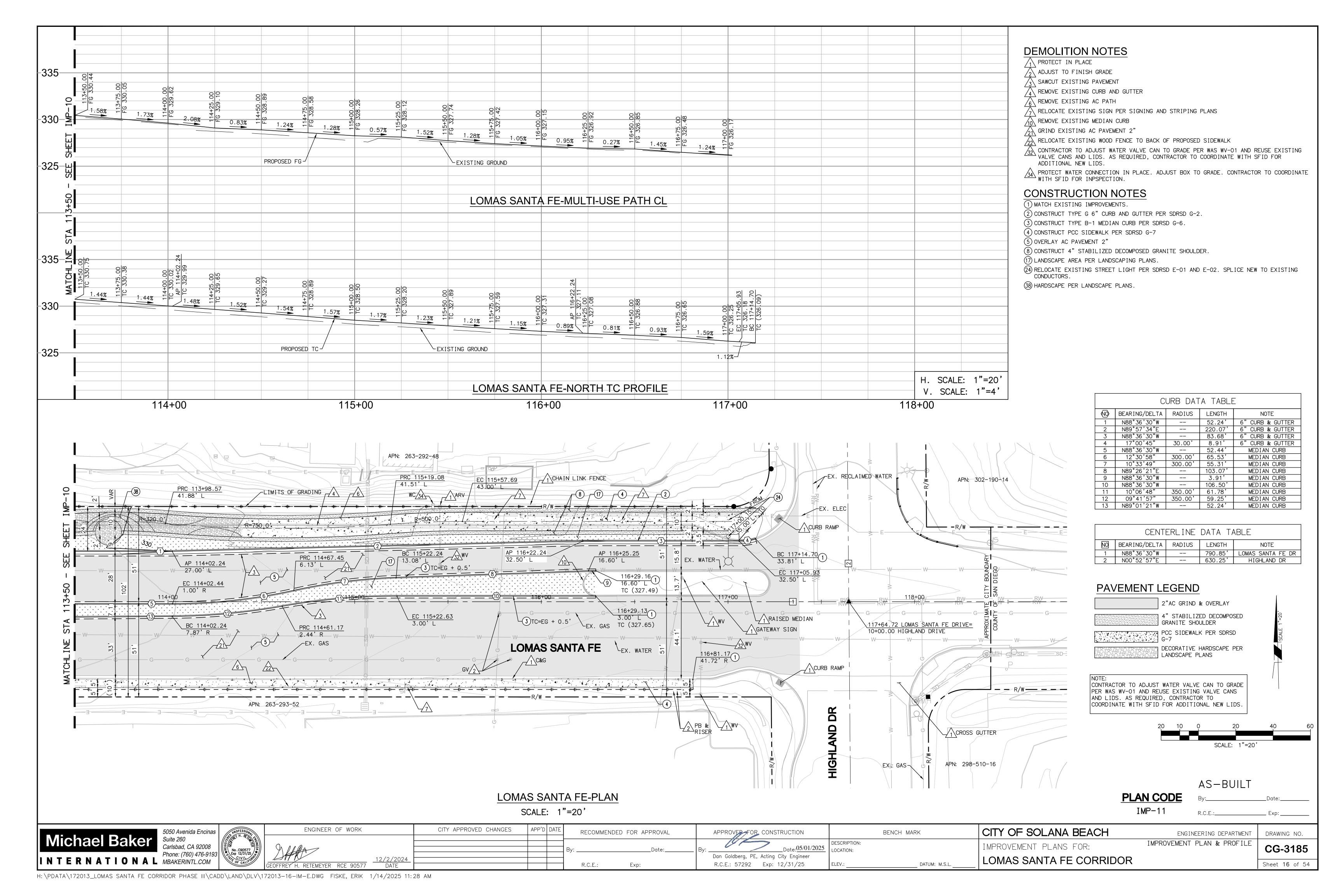


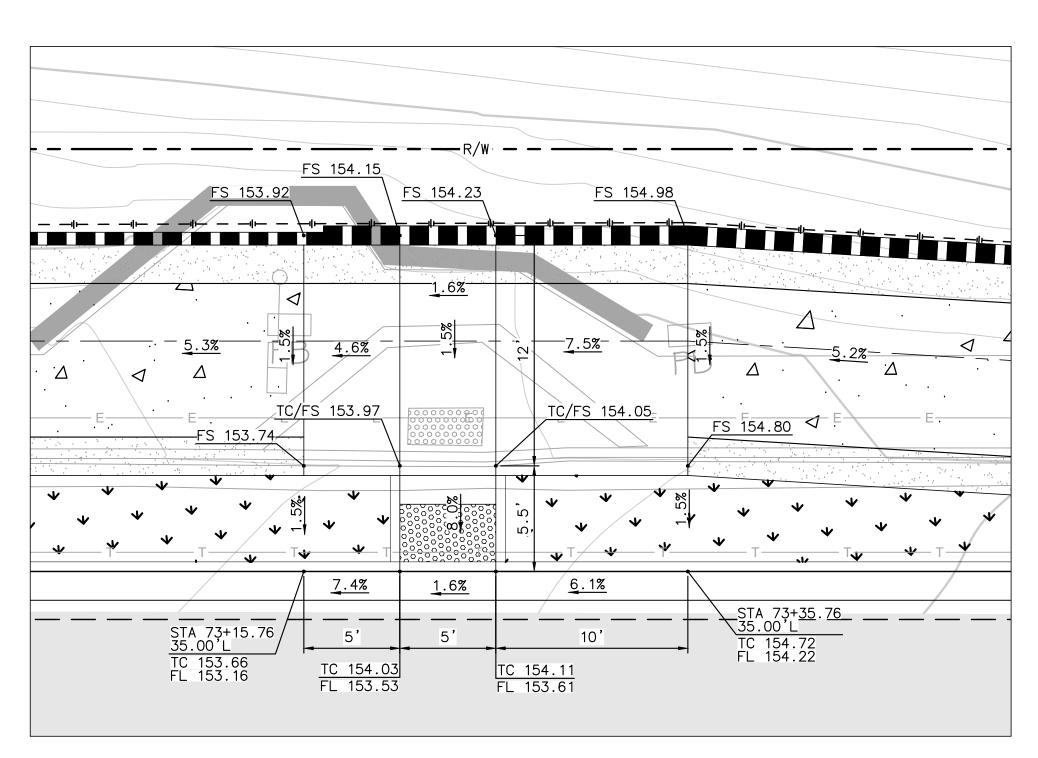




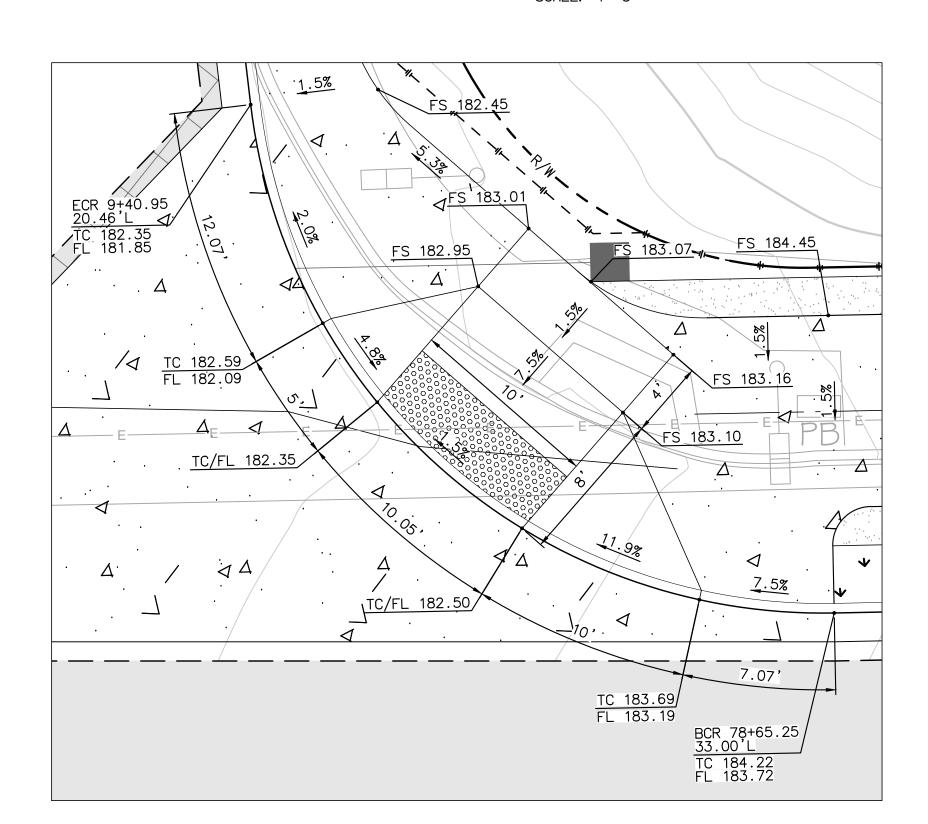




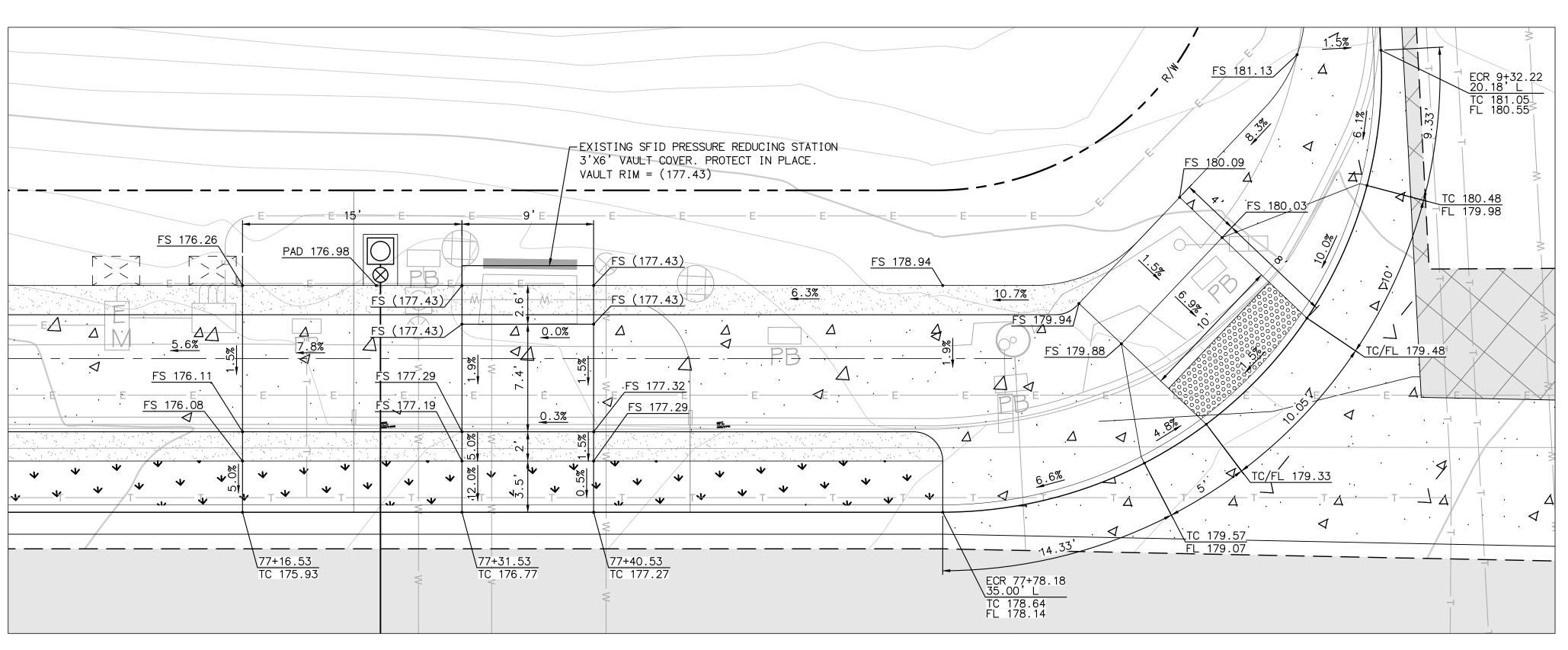




CURB RAMP 28 (TYPE C) LOMAS SANTA FE/PLAZA ENTRANCE NE CORNER (SEE SHEET IMP-2) SCALE: 1"=5'



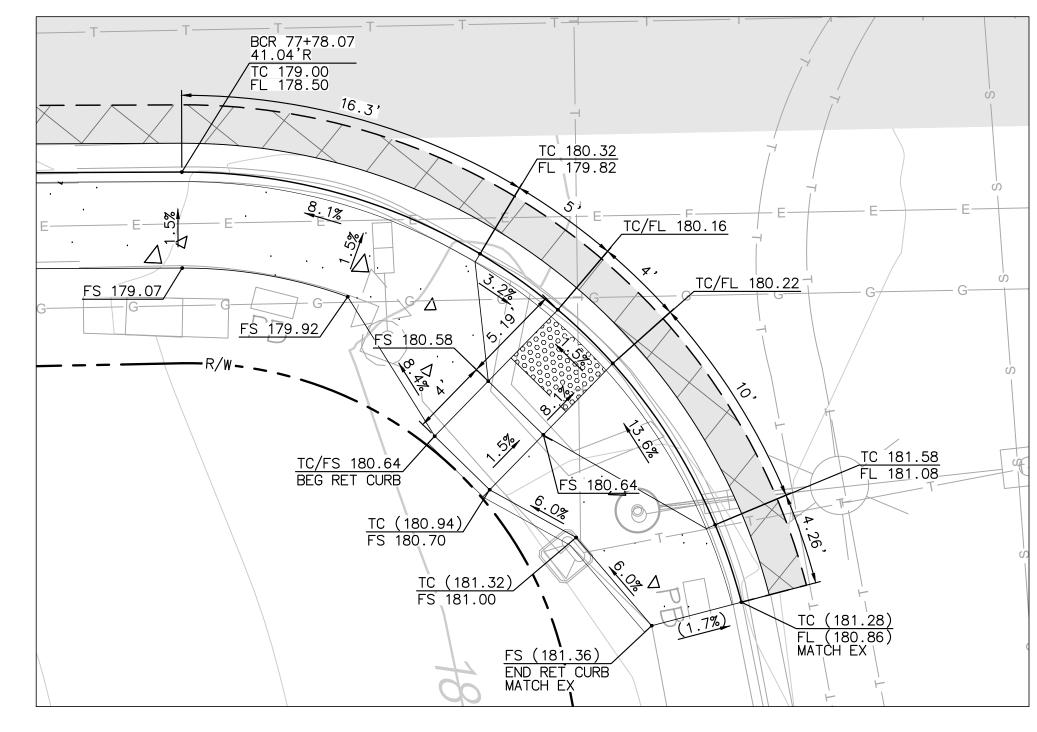
CURB RAMP 30 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES (WEST) NE CORNER (SEE SHEET IMP-3) SCALE: 1"=5'



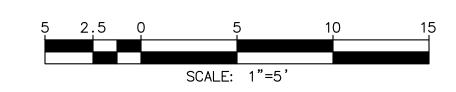
CURB RAMP 29 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES (WEST) NW CORNER (SEE SHEET IMP-3) SCALE: 1"=5'

TC 184.53 FL 184.03 TC/FL 183.4 TC/FL 183.40

> CURB RAMP 31 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES SE CORNER (SEE SHEET IMP-3) SCALE: 1"=5'



CURB RAMP 32 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES SW CORNER (SEE SHEET IMP-3) SCALE: 1"=5'



PLAN CODE CD-1

AS-BUILT



5050 Avenida Encinas Suite 260 Phone: (760) 476-9193

ENGINEER OF WORK

12/2/2024 DATE

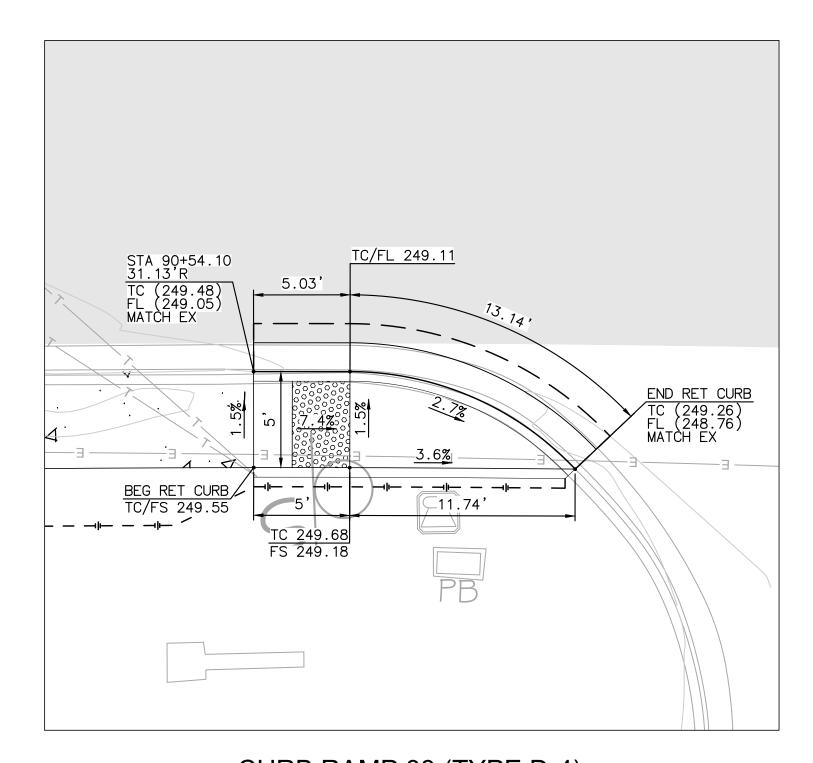
CITY APPROVED CHANGES

RECOMMENDED FOR APPROVAL R.C.E.: Exp:

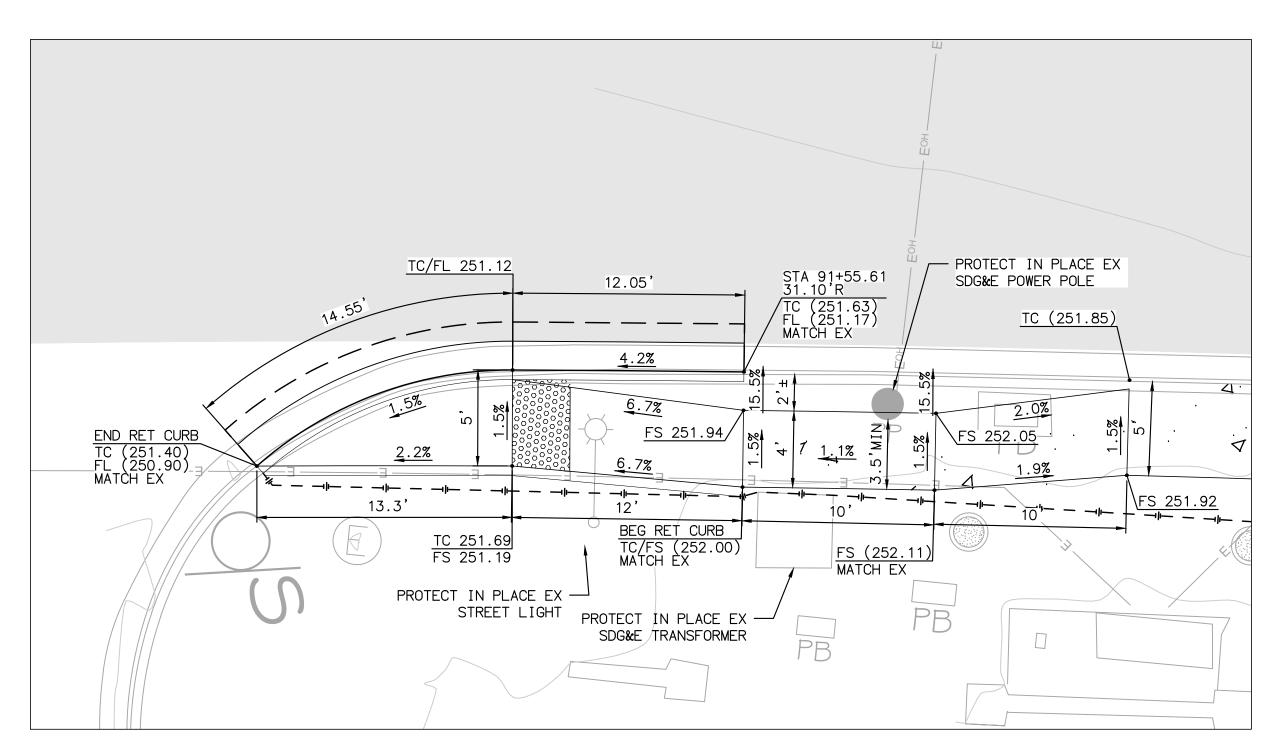
APPROVED FOR CONSTRUCTION Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

BENCH MARK DESCRIPTION: DATUM: M.S.L. CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

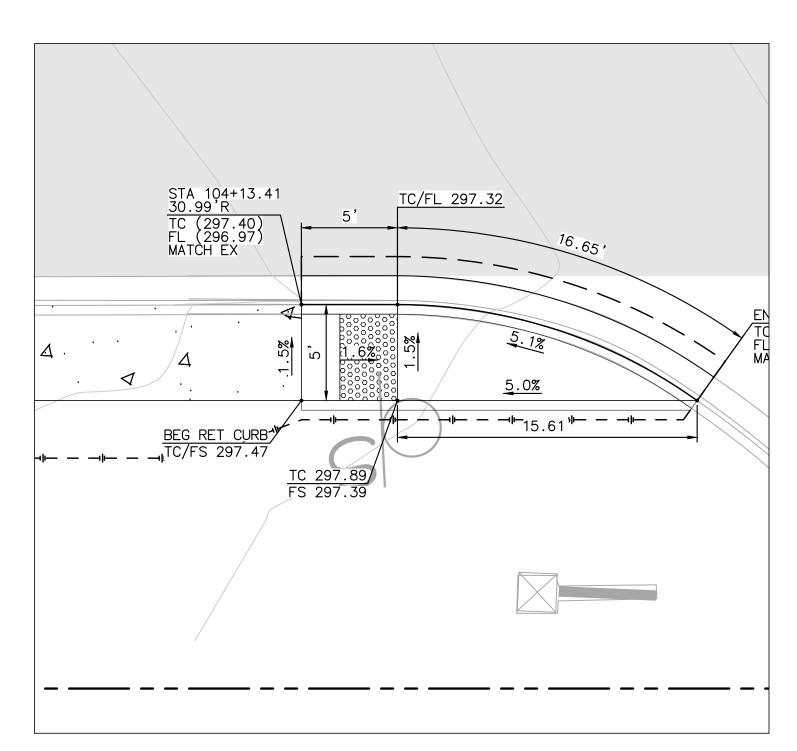
ENGINEERING DEPARTMENT CONSTRUCTION DETAILS



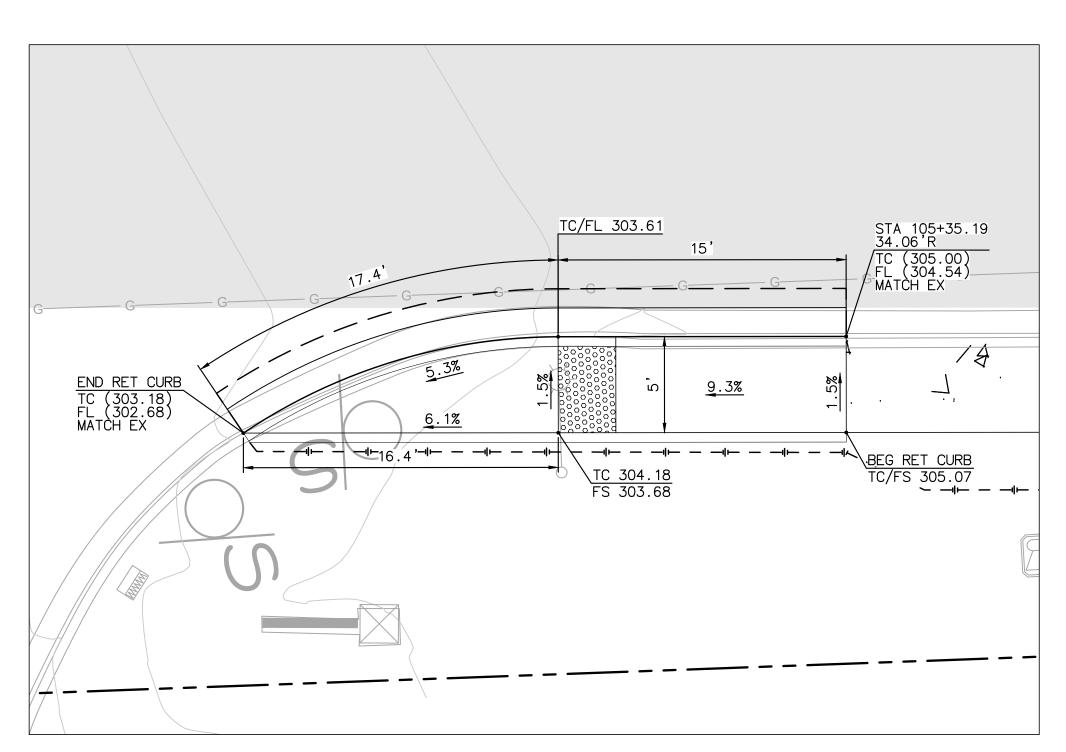
CURB RAMP 33 (TYPE D-4) LOMAS SANTA FE/CAMINO DE LAS VILLAS (WEST) SW CORNER (SEE SHEET IMP-6) SCALE: 1"=5'



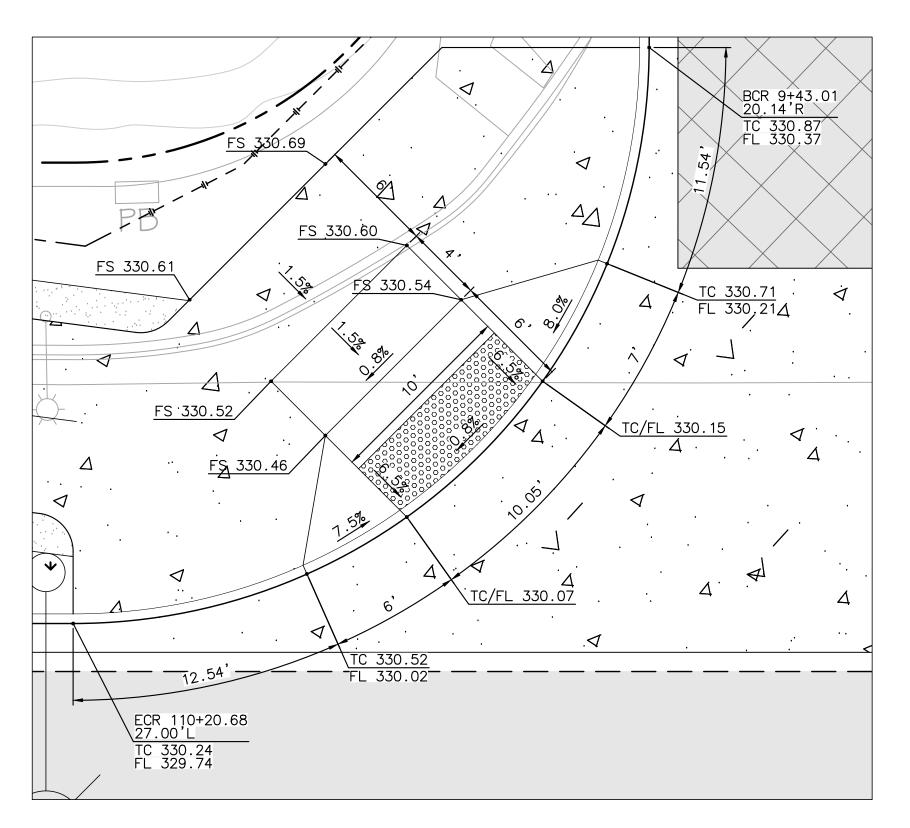
CURB RAMP 34 (TYPE D-4) LOMAS SANTA FE/CAMINO DE LAS VILLAS (WEST) SE CORNER (SEE SHEET IMP-6) SCALE: 1"=5'



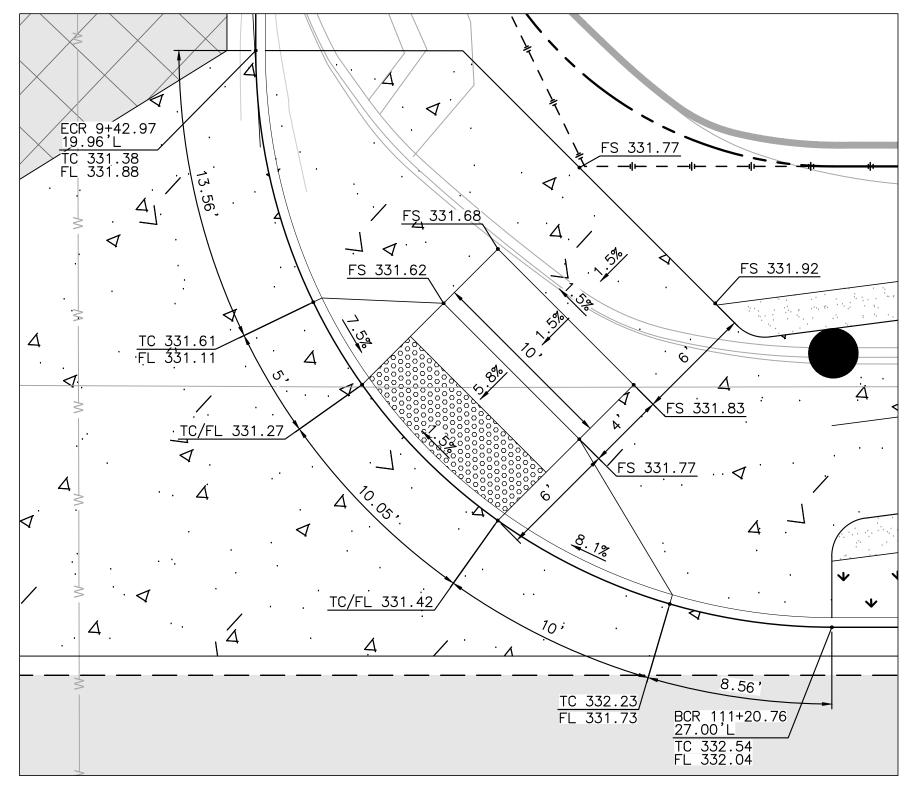
CURB RAMP 35 (TYPE D-4) LOMAS SANTA FE/CAMINO DE LAS VILLAS (EAST) SW CORNER (SEE SHEET IMP-9) SCALE: 1"=5'



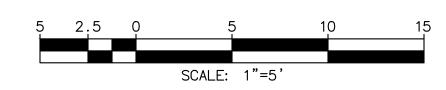
CURB RAMP 36 (TYPE D-4) LOMAS SANTA FE/CAMINO DE LAS VILLAS (EAST) SE CORNER (SEE SHEET IMP-9) SCALE: 1"=5'



CURB RAMP 37 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES (EAST) NW CORNER (SEE SHEET IMP-10) SCALE: 1"=5'



CURB RAMP 38 (TYPE A) LOMAS SANTA FE/VIA MIL CUMBRES (EAST) NE CORNER (SEE SHEET IMP-10) SCALE: 1"=5'



PLAN CODE CD-2

AS-BUILT

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5050 Avenida Encinas Suite 260 Phone: (760) 476-9193

ENGINEER OF WORK

12/2/2024 DATE

CITY APPROVED CHANGES

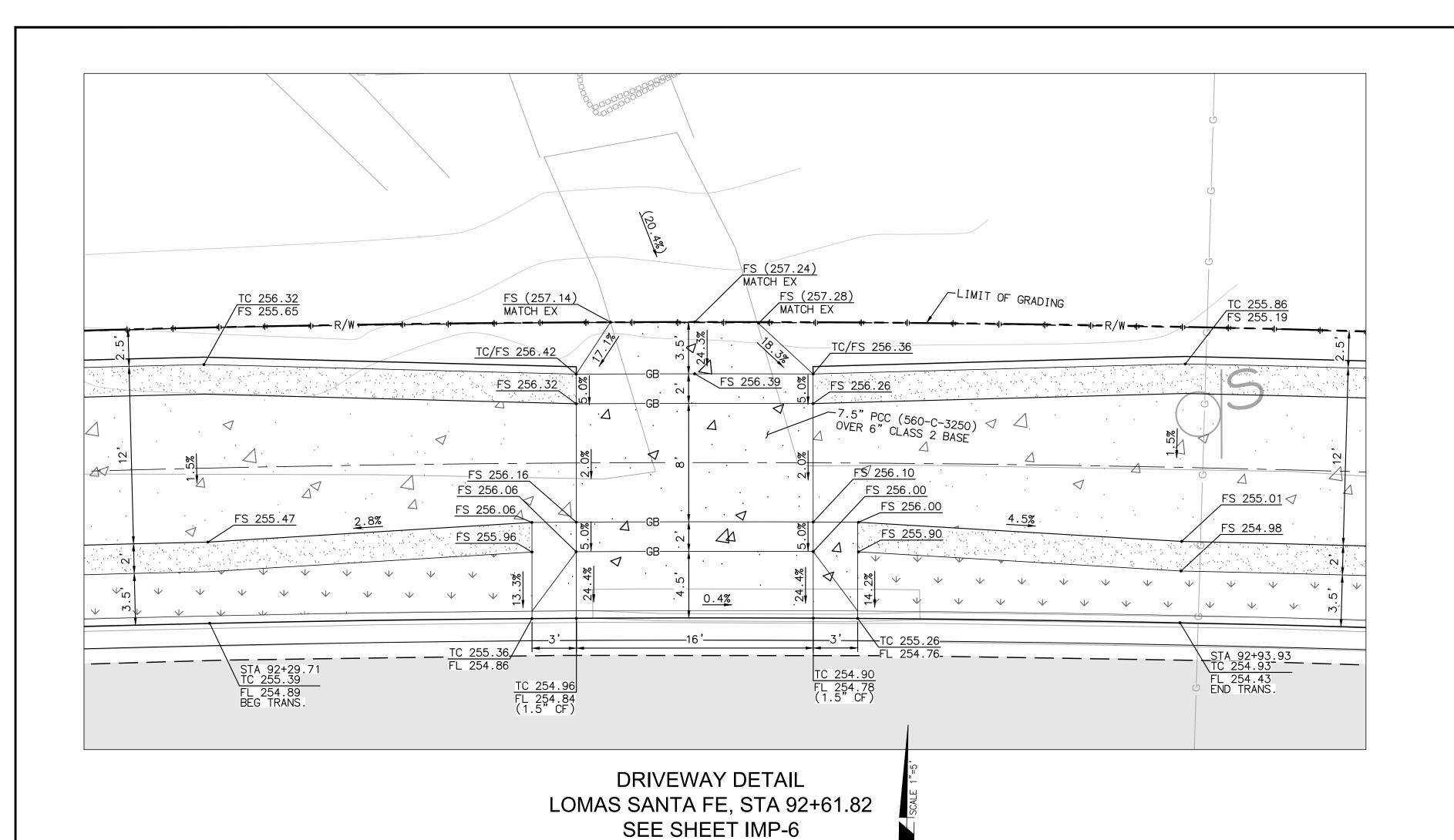
RECOMMENDED FOR APPROVAL R.C.E.: Exp:

APPROVED FOR CONSTRUCTION Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

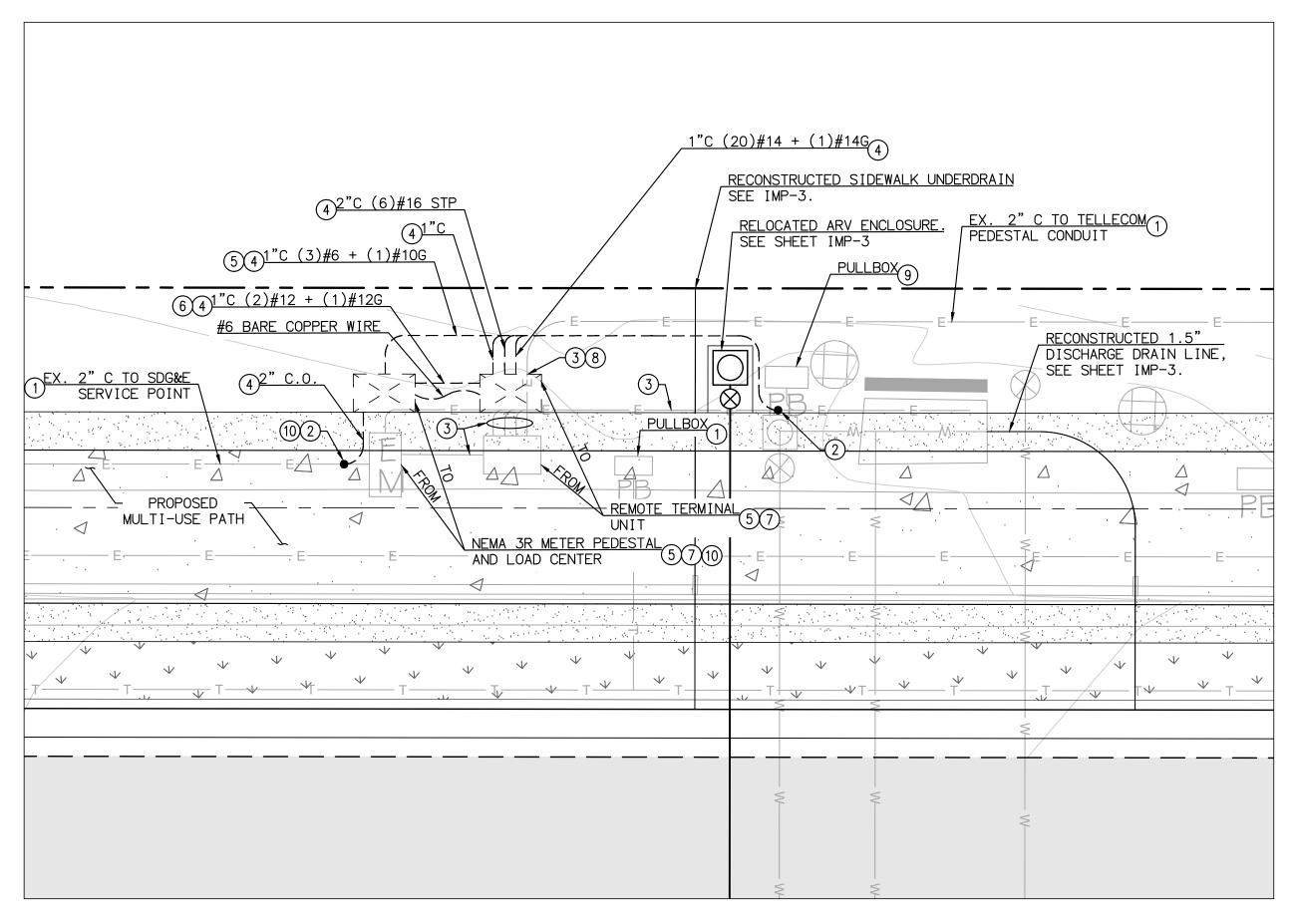
BENCH MARK DESCRIPTION: DATUM: M.S.L. CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT CONSTRUCTION DETAILS

CG-3185 Sheet **18** of 54



SCALE: 1"=5'



SFID UTILITY RELOCATION DETAIL LOMAS SANTA FE, STA 77+25 SEE SHEET IMP-3

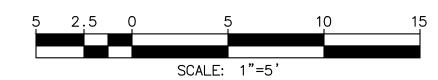
SCALE: 1"=5'

CONSTRUCTION NOTES

- (1) PROTECT IN PLACE
- 2 CONNECT PROPOSED CONDUIT TO EXISTING CONDUIT. SPLICE NEW TO EXISTING CONDUIT TO MAINTAIN CONNECTION
- 3 ABANDONED EXISTING CONDUIT
- 4 SEAL CONDUITS ENTERING THE VAULT WITH DUCT SEAL TO PREVENT ENTRY OF WATER, SILT, AND DEBRIS.
- (5) INSTALL EQUIPMENT PAD PER DETAIL 6 ON SHEET 20
- (6) INSTALL CONCRETE ENCASED CONDUIT PER DETAIL 7 ON SHEET 20
- (7) RELOCATE EXISTING PAD-MOUNTED ENCLOSURE TO NEW LOCATION AT BACK OF SIDEWALK AS SHOWN. CONTRACTOR TO MAINTAIN FUNCTIONALITY OF RELOCATED EQUIPMENT AND PRESSURE REDUCING STATION PER SFID STANDARDS AND REQUIREMENTS
- (8) CONNECT EXISTING CONDUIT TO RELOCATED UTILITY CABINET
- 9 ADJUST TO FINISHED GRADE
- (10) CONTRACTOR TO COORDINATE WITH SDGE FOR RE-ESTABLISHING CONNECTION TO PAD-MOUNTED METER PEDESTAL.

1. CONTRACTOR TO COORDINATE WITH SFID PRIOR TO RELOCATION OF PAD MOUNTED ENCLOSURES. CONNECTION TO PRESSURE REDUCING STATION TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AUTHORIZED BY SFID REPRESENTATIVE

2. CONTRACTOR TO PROTECT ALL EXISTING EQUIPMENT IN PLACE IN THE PAD-MOUNTED ENCLOSURES. FOLLOWING RELOCATION, CONTRACTOR TO VERIFY WITH SFID REPRESENTATIVE FUNCTIONALITY OF SYSTEM.



PLAN CODE

CD-3

AS-BUILT

Michael Baker

5050 Avenida Encinas Carlsbad, CA 92008 Phone: (760) 476-9193 NTERNATIONAL MBAKERINTL.COM

ENGINEER OF WORK GEOFFREY H. RETEMEYER RCE 90577

CITY APPROVED CHANGES

APPROVED FOR CONSTRUCTION RECOMMENDED FOR APPROVAL Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25 Exp:

R.C.E.:

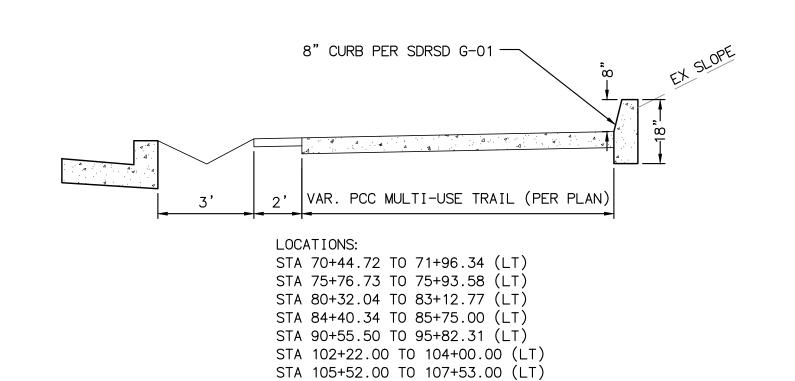
BENCH MARK DESCRIPTION: Date:05/01/2025 DATUM: M.S.L.

IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

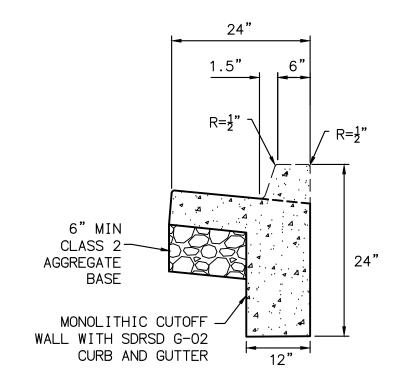
CITY OF SOLANA BEACH

ENGINEERING DEPARTMENT CONSTRUCTION DETAILS

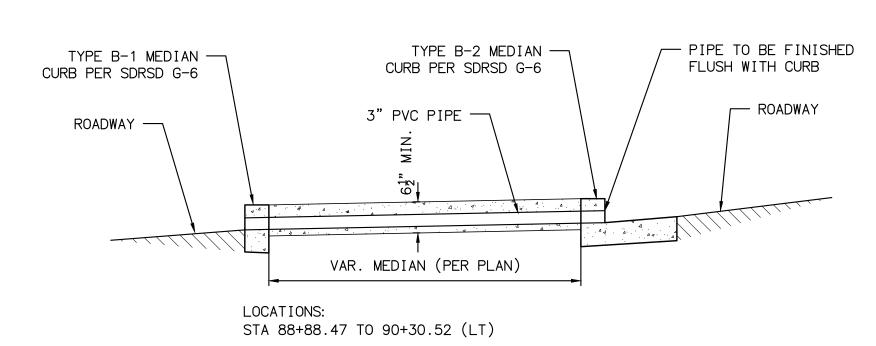
CG-3185 Sheet 19 of 54



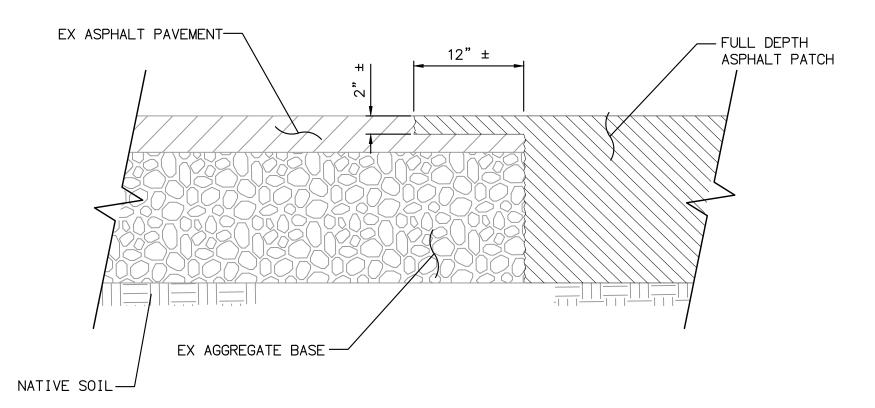
STEM CURB DETAIL N.T.S.



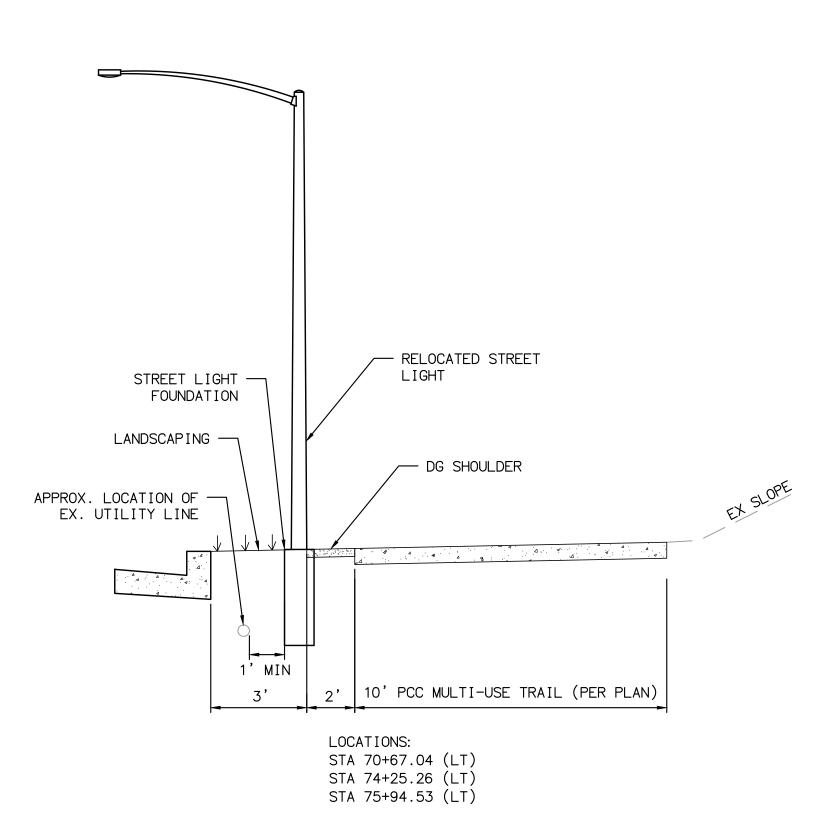
MONOLITHIC CUTOFF WALL WITH CURB AND GUTTER N.T.S.



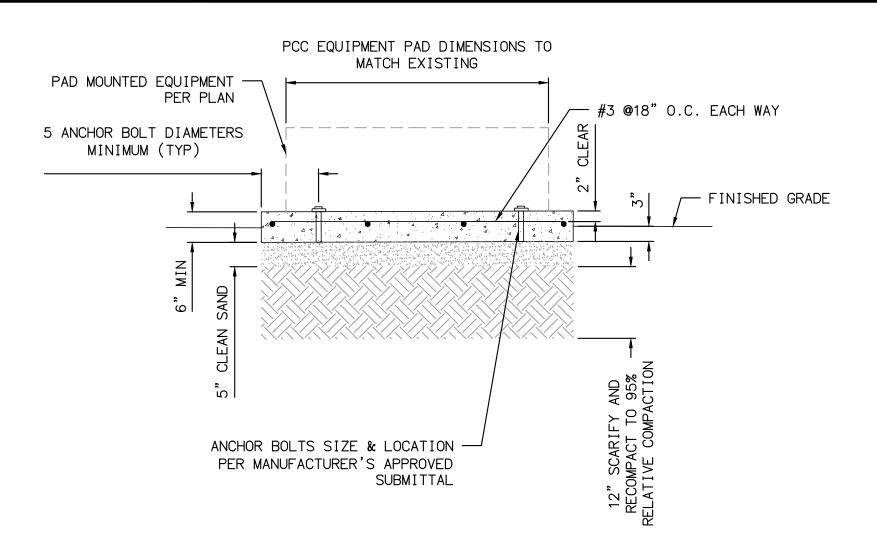
MEDIAN UNDERDRAIN DETAIL N.T.S.



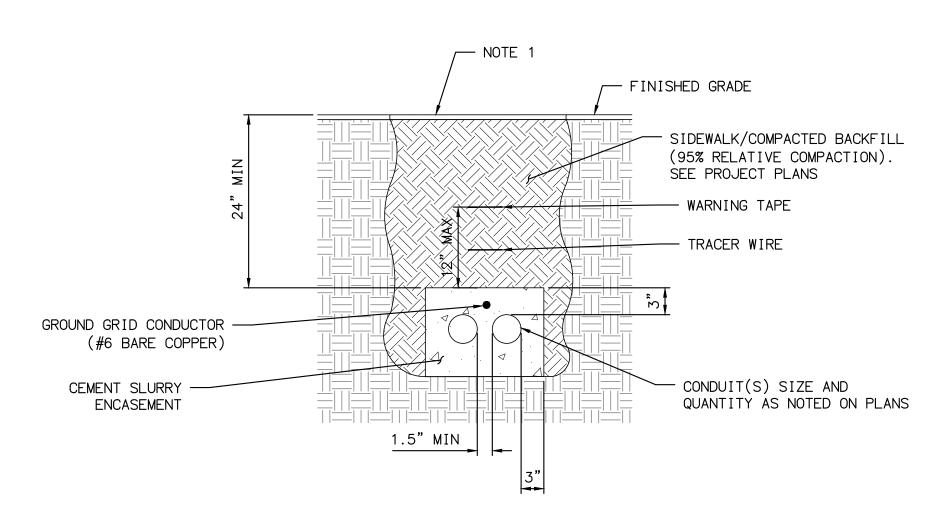
CAP DETAIL ADJACENT TO FULL DEPTH PATCH N.T.S.



STREET LIGHT RELOCATION DETAIL N.T.S.







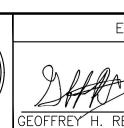
1. REPAIR EXISTING ASPHALT PAVEMENT AND CEMENT CONCRETE. CEMENT CONCRETE REPAIRS TO BE FROM EXPANSION JOINT TO EXPANSION JOINT



AS-BUILT **PLAN CODE** CD-4

5050 Avenida Encinas Phone: (760) 476-9193





12/2/2024 DATE

CITY APPROVED CHANGES

RECOMMENDED FOR APPROVAL R.C.E.: Exp:

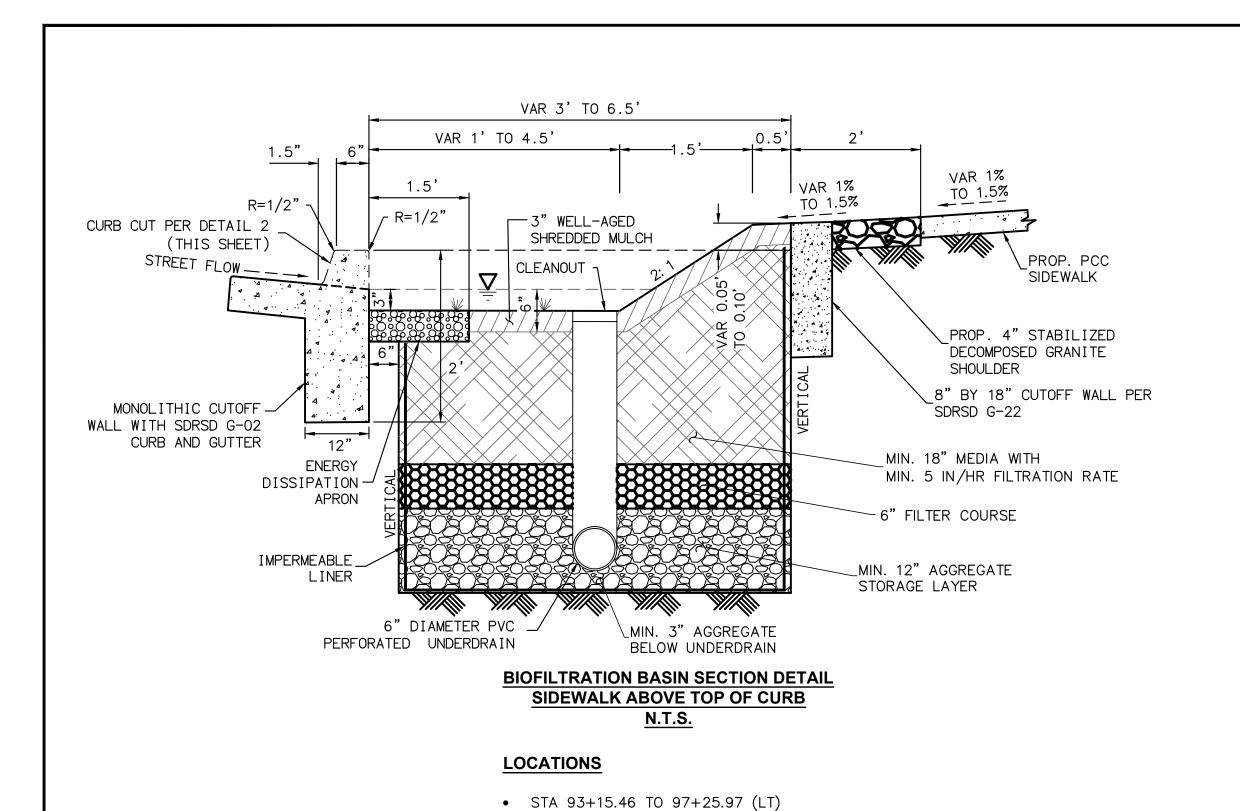
APPROVED FOR CONSTRUCTION Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

BENCH MARK DESCRIPTION: DATUM: M.S.L. CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR:

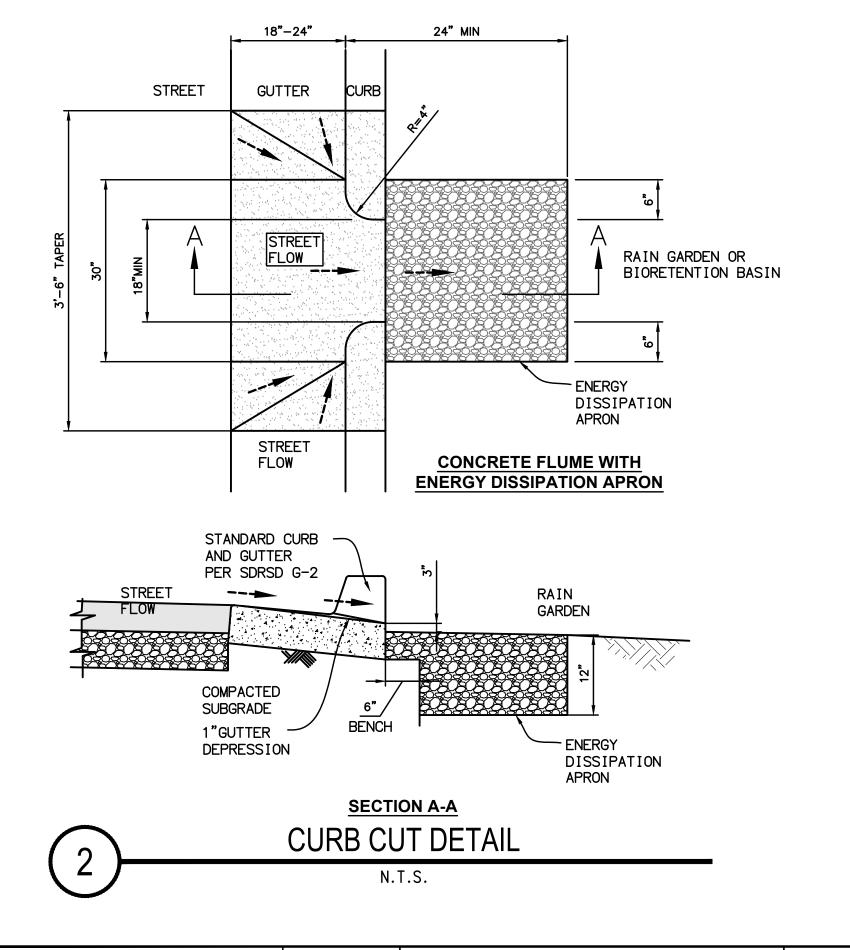
LOMAS SANTA FE CORRIDOR

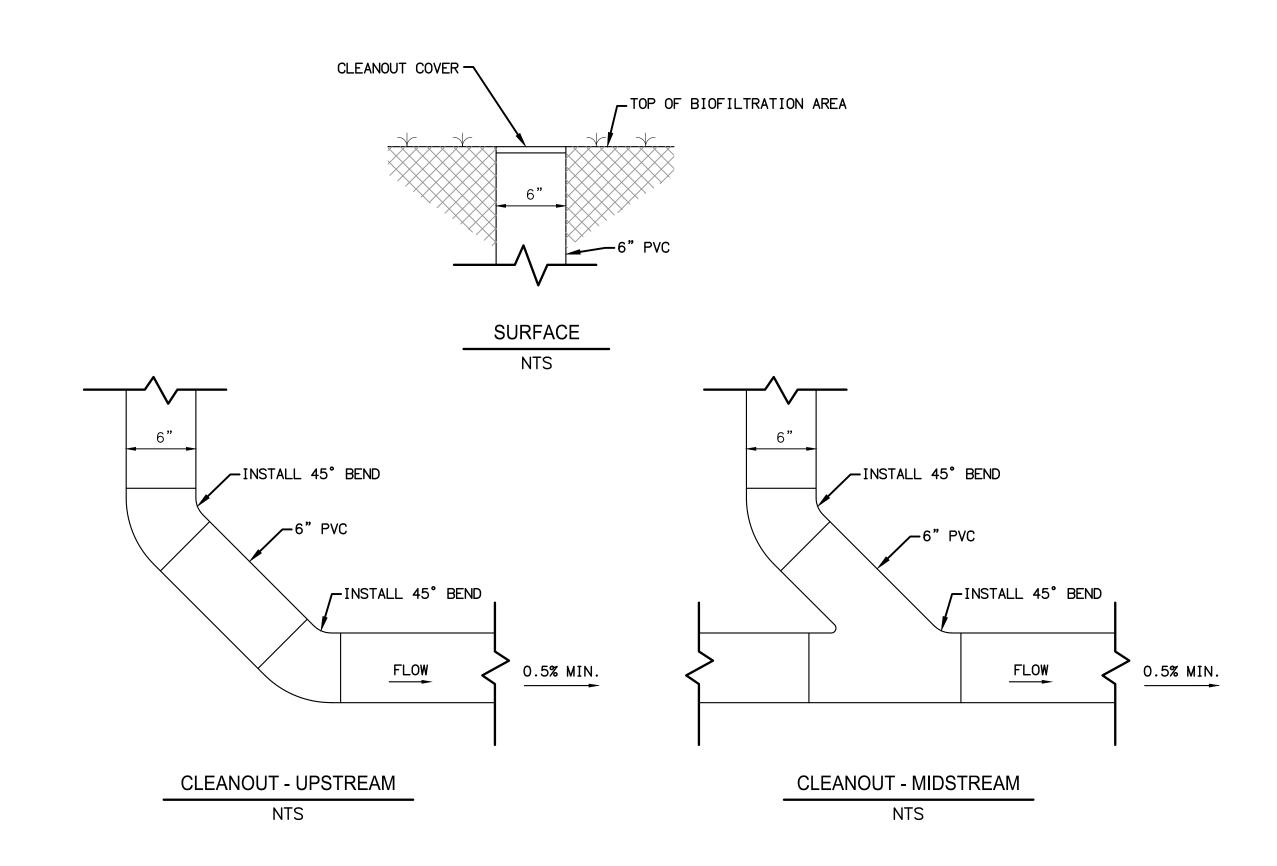
ENGINEERING DEPARTMENT CONSTRUCTION DETAILS

DRAWING NO. CG-3185 Sheet 20 of 54



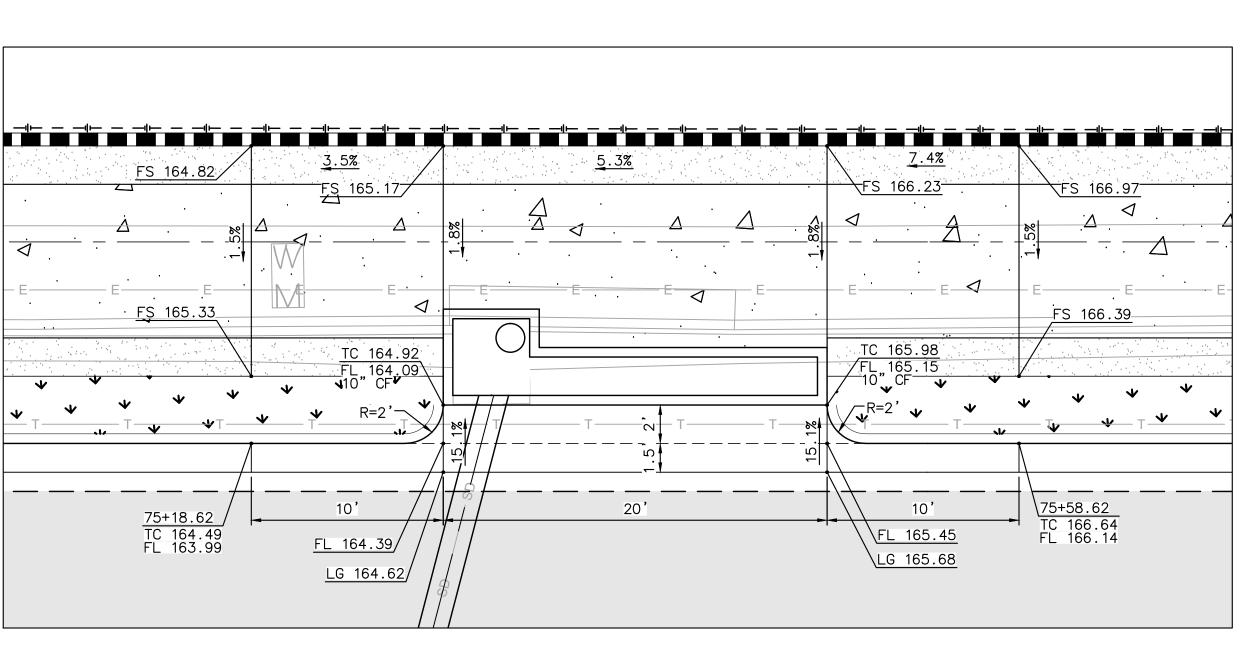
PLANTER BOX/BIOFILTRATION BASIN DETAIL N.T.S.

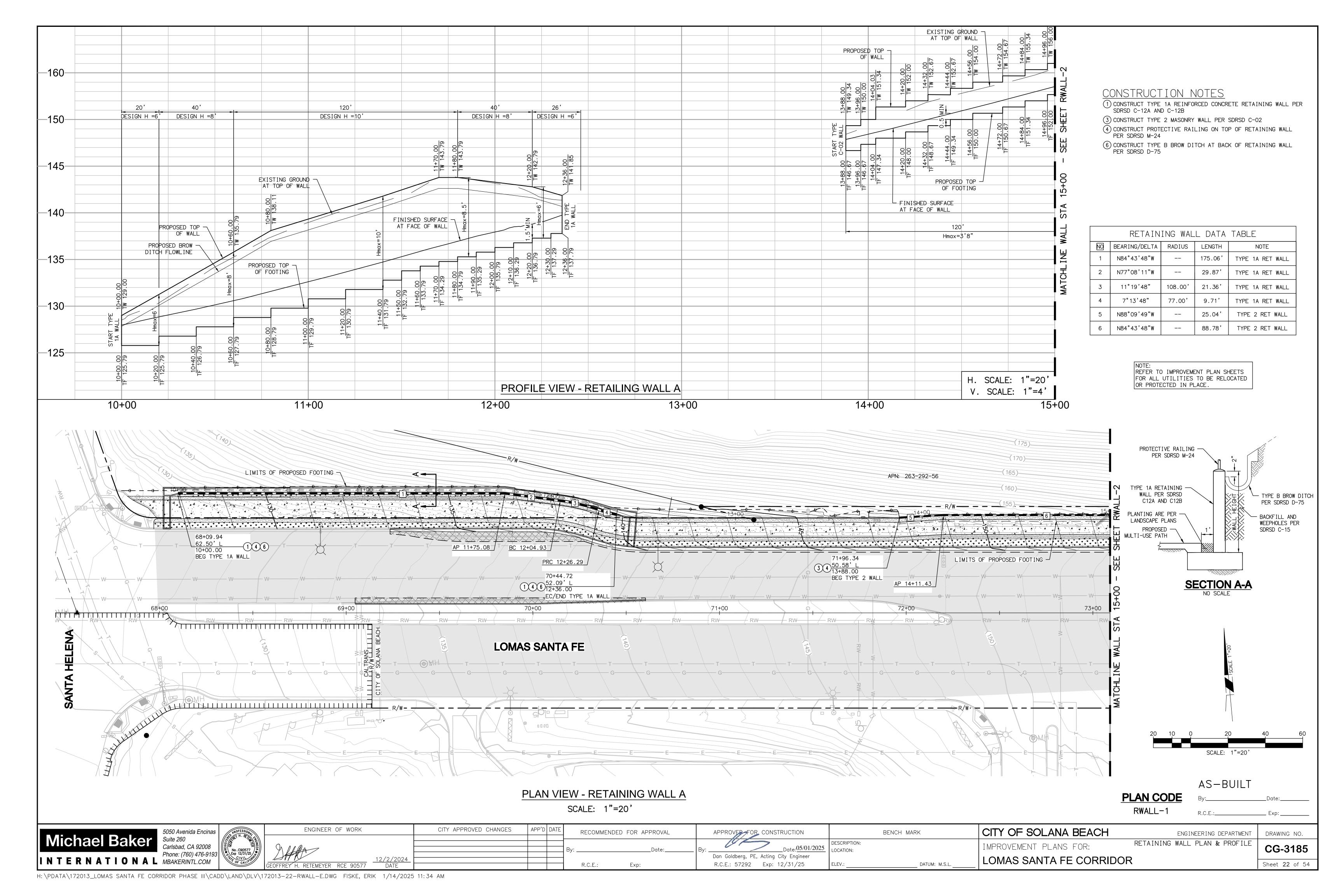


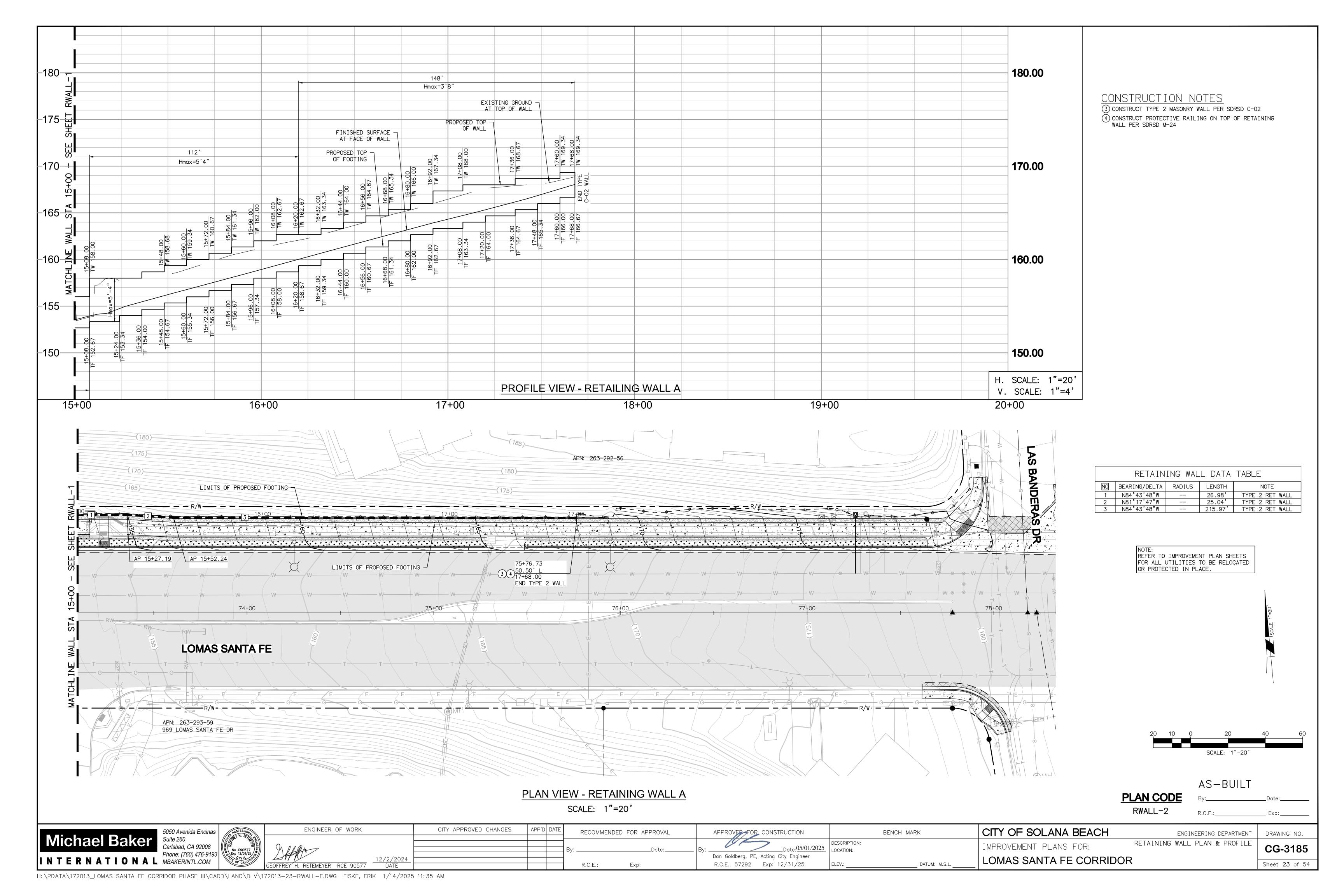


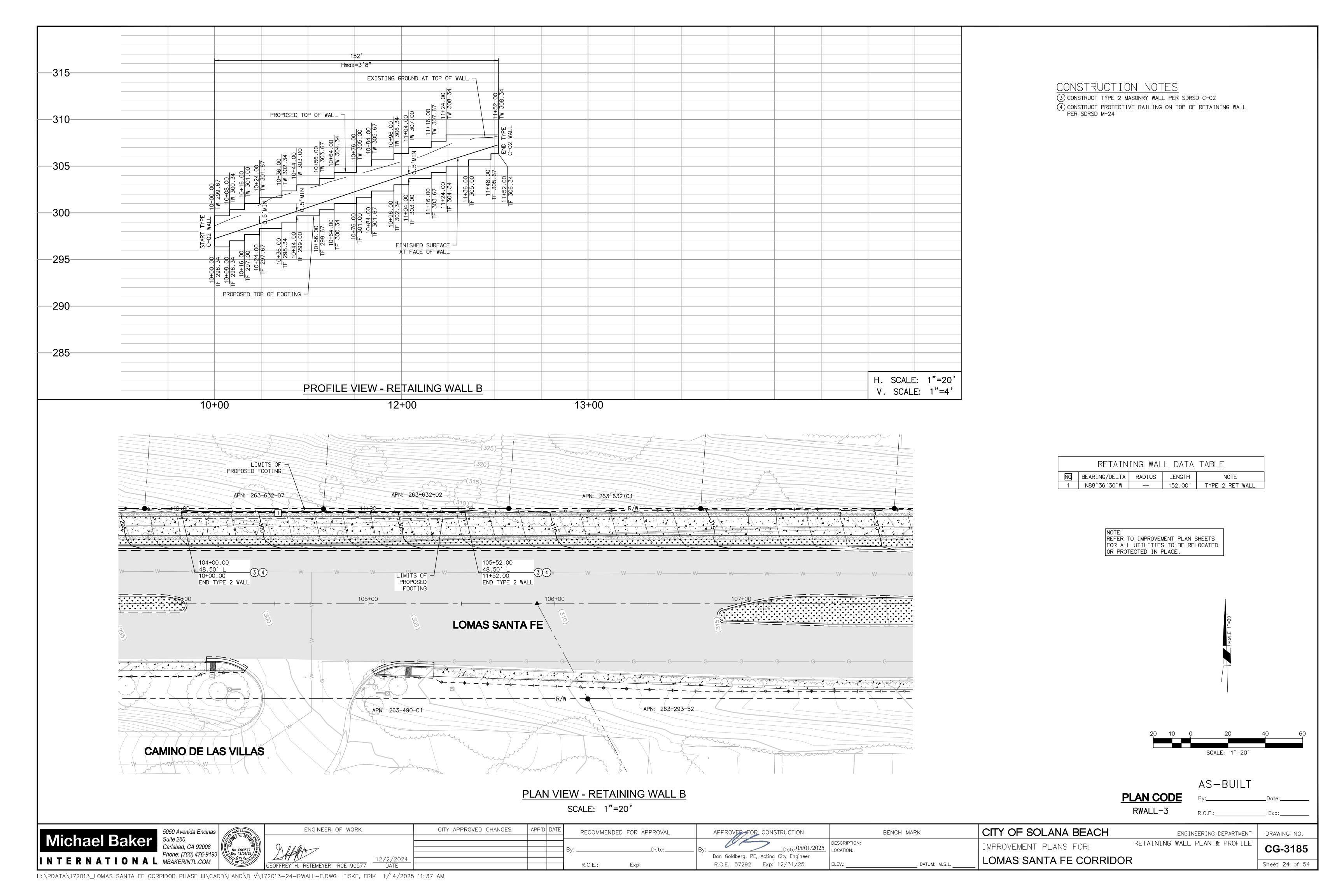
BIOFILTRATION AREA CLEANOUT

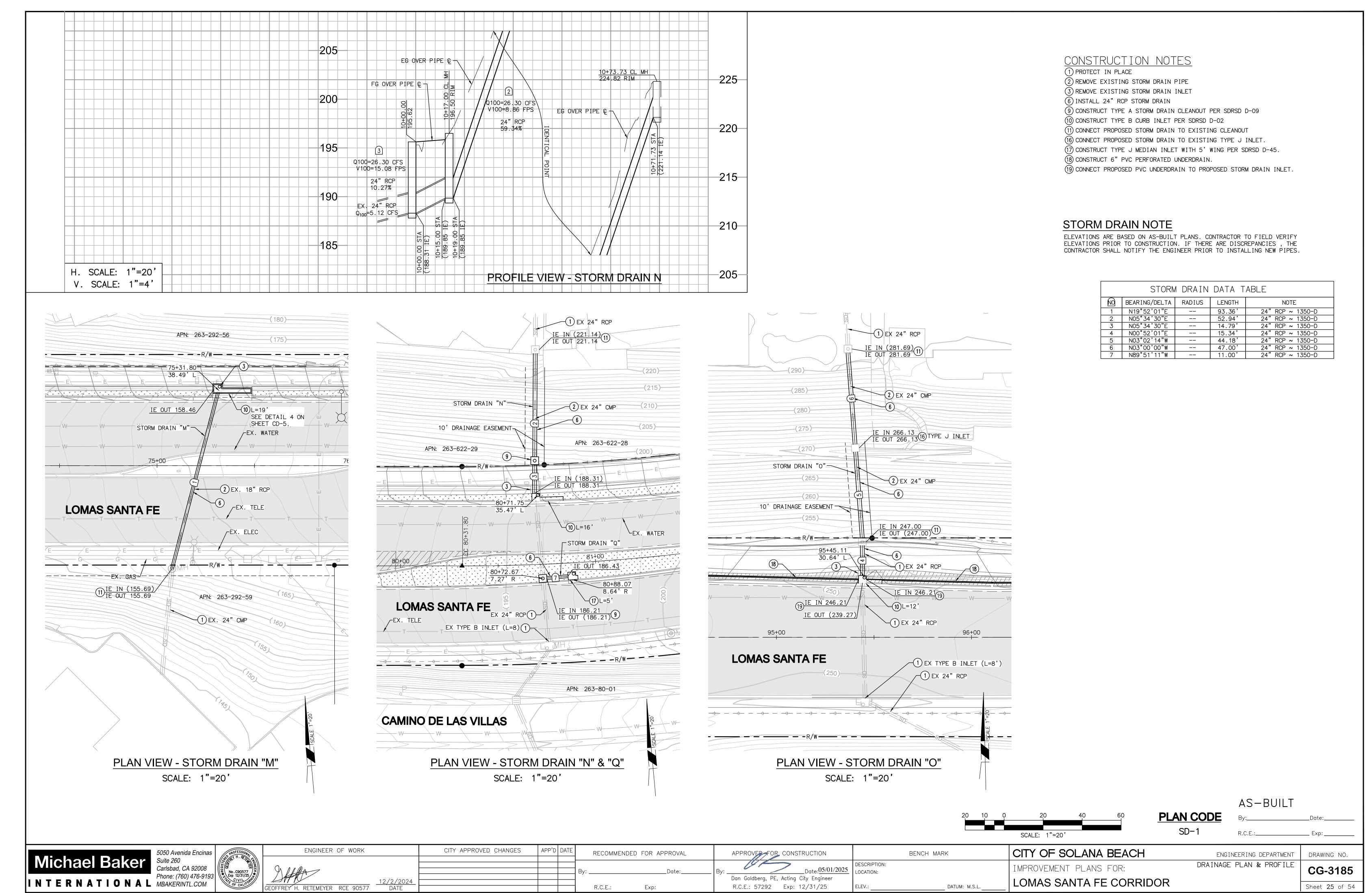
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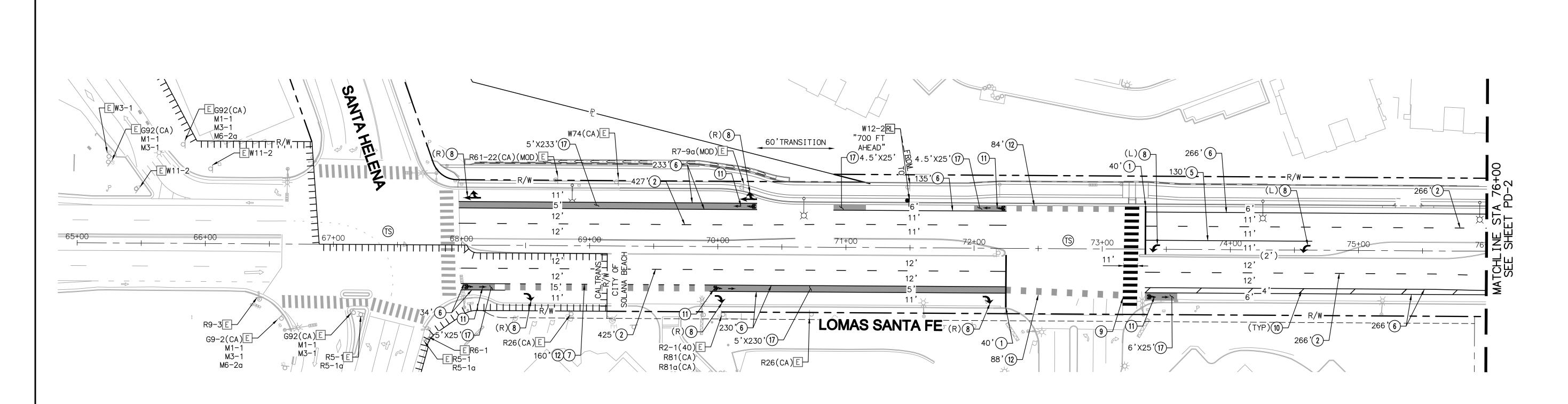












LEGEND

- E EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
- (IS) FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
- REFRESH EXISTING PAVEMENT MARKINGS
- REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
- TS EXISTING TRAFFIC SIGNAL
- RS REMOVE AND SALVAGE SIGN
- RL RELOCATE EXISTING TRAFFIC SIGN
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED SIGN (ON STREET LIGHT)
- (12') EXISTING LANE WIDTH
- 12' PROPOSED LANE WIDTH
- SNS STREET NAME SIGN
- (R) RIGHT
- (L) LEFT (W) WHITE
- (Y) YELLOW

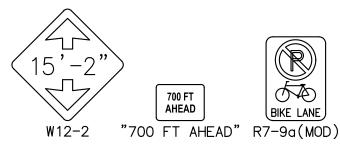
CONSTRUCTION NOTES

- (1) INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
- (2) INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- (5) INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
- (6)INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39. (7) INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
- (8) INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
- (9) INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
- (10) INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING. (11) INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
- (12) INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
- (17) INSTALL GREEN BIKE LANE PAINT.

GENERAL SIGNING AND STRIPING NOTES

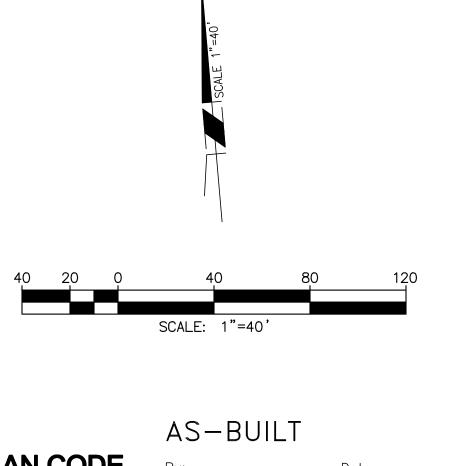
- 1. REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY 2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL
- BE FIRST REMOVED BEFORE ANY NEW APPLICATION. 3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE
- 4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

SIGN LEGEND



RIGHT OF WAY NOTE

RIGHT-OF-WAY AND PROPERTY BOUNDARY INFORMATION SHOWN ON WEST OF INTERSTATE 5 ON THIS SHEET IS DERIVED FROM SANGIS PARCEL DATA AND IS NOT THE RESULT OF A FIELD SURVEY.



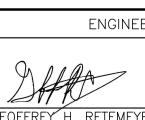
PLAN CODE PD-1











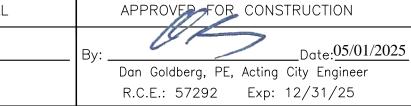
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SHA	
OFFREY H RETEMEYER	

ENGINEER	0
FREY H. RETEMEYER	R

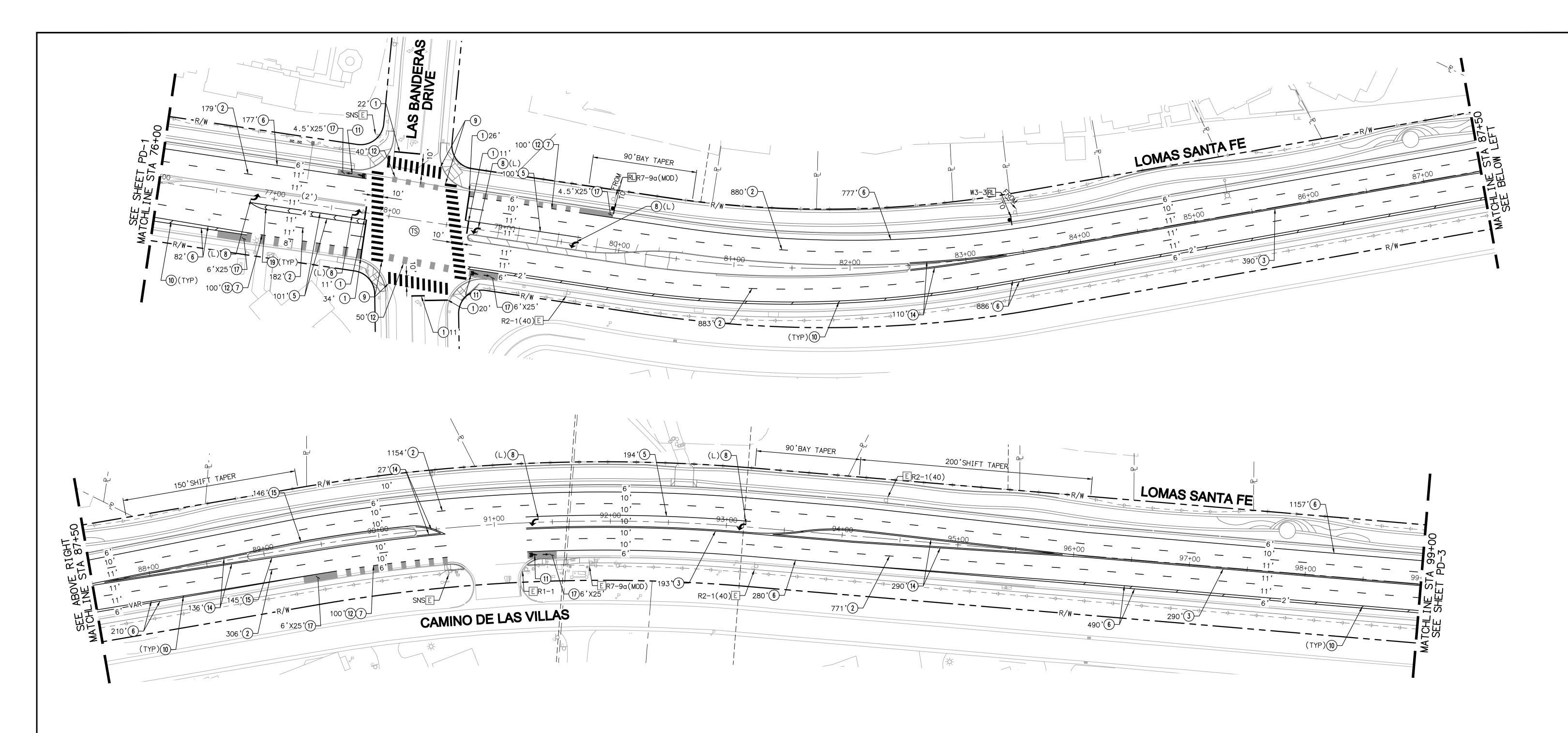
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19		12/2/2024	
H. RETEMEYER	RCE 90577	DATE	

	CITY APPROVED CHANGES	APP'D	DATE	
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DATE				

APPROVED CHANGES	APP'D	DATE		RECOMMENDED	FOR	APPROVAL
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				R.C.E.:	Exp	•



Sheet 26 of 54



LEGEND

- E EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
- (IS) FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
- (RF) REFRESH EXISTING PAVEMENT MARKINGS
- REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
- EXISTING TRAFFIC SIGNAL
- REMOVE AND SALVAGE SIGN
- RELOCATE EXISTING TRAFFIC SIGN EXISTING SIGN
- PROPOSED SIGN
- PROPOSED SIGN (ON STREET LIGHT)
- (12') EXISTING LANE WIDTH
- 12' PROPOSED LANE WIDTH SNS STREET NAME SIGN
- (R) RIGHT
- (L) LEFT
- (W) WHITE (Y) YELLOW

R7-9a(MOD)

GENERAL SIGNING AND STRIPING NOTES

- REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY 2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL
- BE FIRST REMOVED BEFORE ANY NEW APPLICATION. 3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE
- 4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

SIGN LEGEND





CONSTRUCTION NOTES

- (1) INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
- (2) INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
- (3) INSTALL 6" DOUBLE YELLOW LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
- (5) INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
- (6) INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
- (7) INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
- (8) INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
- (9) INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
- (10) INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
- (11) INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
- (12) INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
- (14) INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29. (15) INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
- (17) INSTALL GREEN BIKE LANE PAINT.

(19) INSTALL 4" WHITE CHEVRON STRIPING, AT 20' SPCAING.

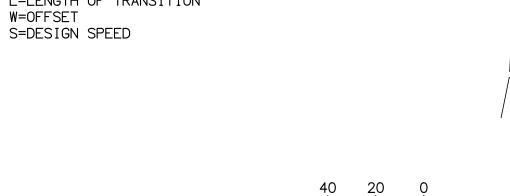
TAPER LENGTH CALCULATION

1. SHIFT TAPER $L = WS^2/60 = 5X40^2/60 = 133.3$ ' USE 150'

L=LENGTH OF TRANSITION W=OFFSET

S=DESIGN SPEED

2. SHIFT TAPER $L = WS^2/60 = 5.5X40^2/60 = 146.7$ ' USE 200' L=LENGTH OF TRANSITION

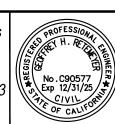


AS-BUILT **PLAN CODE** PD-2

SCALE: 1"=40'



5050 Avenida Encinas Phone: (760) 476-9193



ENGINEER OF WORK		CITY	APPROVED	CHANG
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ROVED CHANGES	APP'D	DATE		RECOMMEND	DED FOR	APPROVAL
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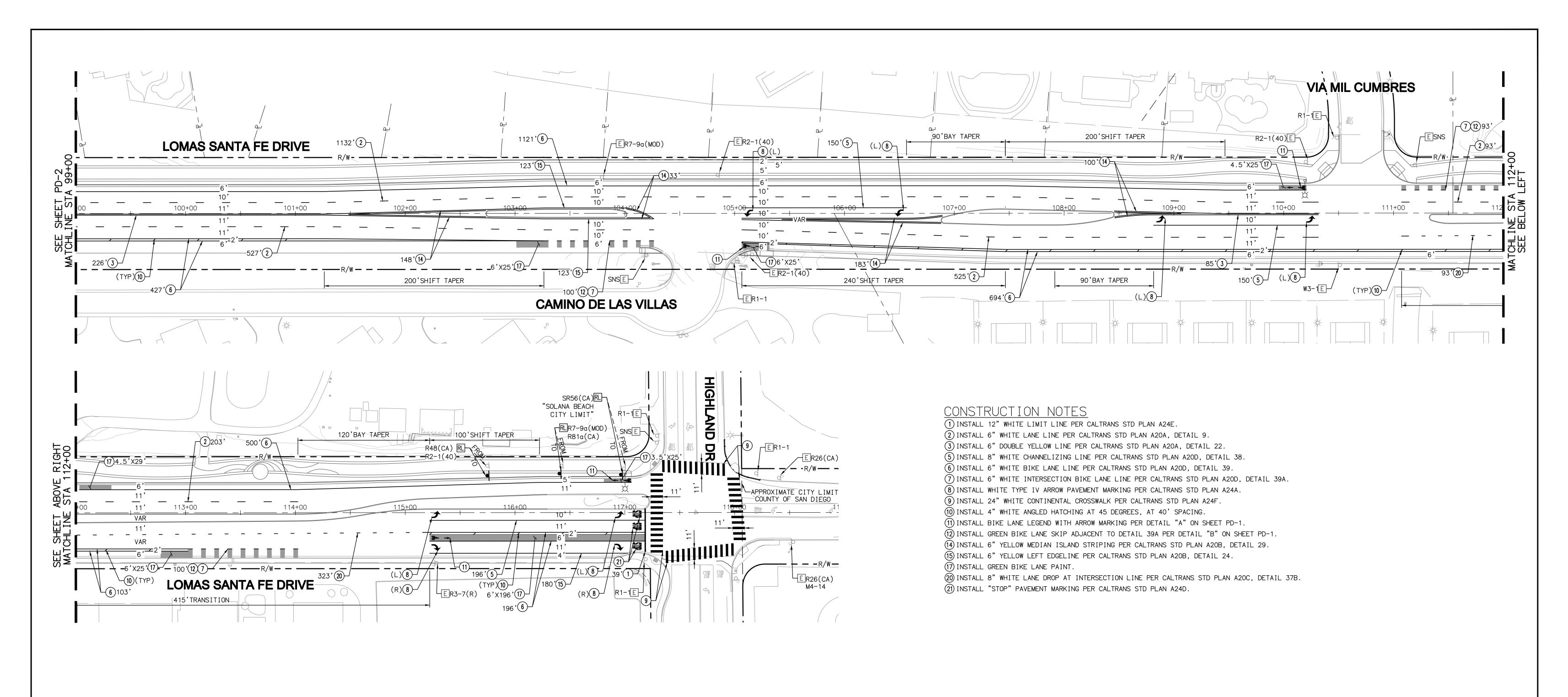
	APPROVED FOR	CONS	STRUCTION	
3y: _	0/	>	Date:05/01/2	025
, -	Dan Goldberg, PE,	Acting	City Engineer	
	R.C.E.: 57292	Exp:	12/31/25	

BENCH MARK DESCRIPTION: LOCATION: DATUM: M.S.L. CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR:

LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT DRAWING NO. PAVEMENT DELINEATION PLAN

CG-3185 Sheet 27 of 54



LEGEND

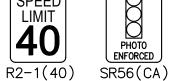
- E EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
- (IS) FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE) (RF) REFRESH EXISTING PAVEMENT MARKINGS
- RP) REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
- (TS) EXISTING TRAFFIC SIGNAL
- RS REMOVE AND SALVAGE SIGN
- RELOCATE EXISTING TRAFFIC SIGN EXISTING SIGN
- PROPOSED SIGN
- PROPOSED SIGN (ON STREET LIGHT)
- (12') EXISTING LANE WIDTH
- 12' PROPOSED LANE WIDTH SNS STREET NAME SIGN
- (R) RIGHT
- (L) LEFT
- (W) WHITE (Y) YELLOW

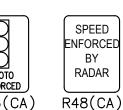
GENERAL SIGNING AND STRIPING NOTES

- . REMOVE EXISTING PAVEMENT MARKINGS AND STRIPING BEFORE AC OVERLAY 2. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL
- BE FIRST REMOVED BEFORE ANY NEW APPLICATION. 3. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE
- 4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

SIGN LEGEND





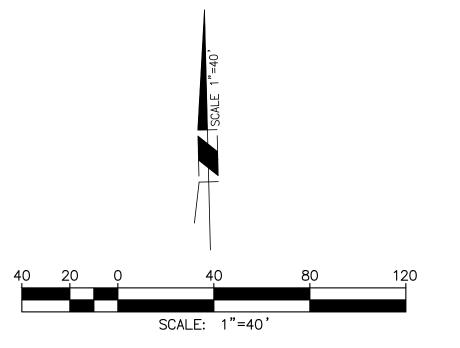


SOLANA BEACH CITY LIMIT W1-6(R)

BEGIN R81a(CA)

TAPER LENGTH CALCULATION

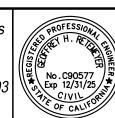
- 1. SHIFT TAPER $L = WS^2/60 = 3X40^2/60 = 80$ ' USE 200' L=LENGTH OF TRANSITION
- W=OFFSET
- S=DESIGN SPEED
- 2. SHIFT TAPER
- $L = WS^2/60 = 9X40^2/60 = 240' USE 240'$ L=LENGTH OF TRANSITION
- W=OFFSET S=DESIGN SPEED
- 3. SHIFT TAPER
- $L = WS^2/60 = 4X40^2/60 = 106.7$ ' USE 200' L=LENGTH OF TRANSITION
- W=OFFSET
- S=DESIGN SPEED
- 4. SHIFT TAPER
- $L = WS^2/60 = 3X40^2/60 = 80' USE 100'$
- L=LENGTH OF TRANSITION
- W=OFFSET S=DESIGN SPEED



AS-BUILT **PLAN CODE** PD-3



5050 Avenida Encinas Carlsbad, CA 92008 Phone: (760) 476-9193







ENGINEER OF WORK

EOFFREY H. RETEMEYER RCE 90577

CITY APPROVED CHANGES

RECOMMENDED FOR APPROVAL R.C.E.: Exp:

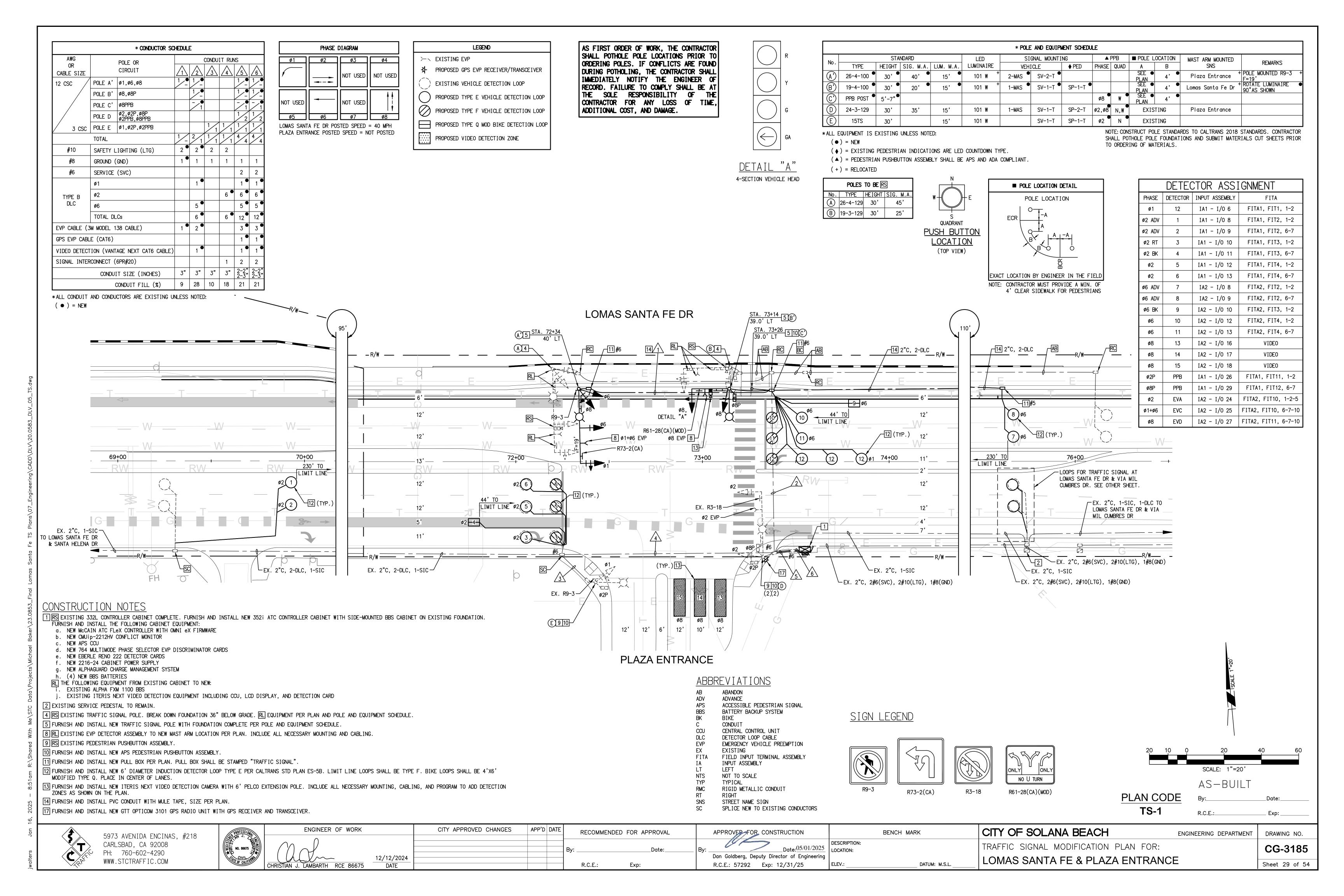
APPROVED FOR CONSTRUCTION Date: 05/01/2025 Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

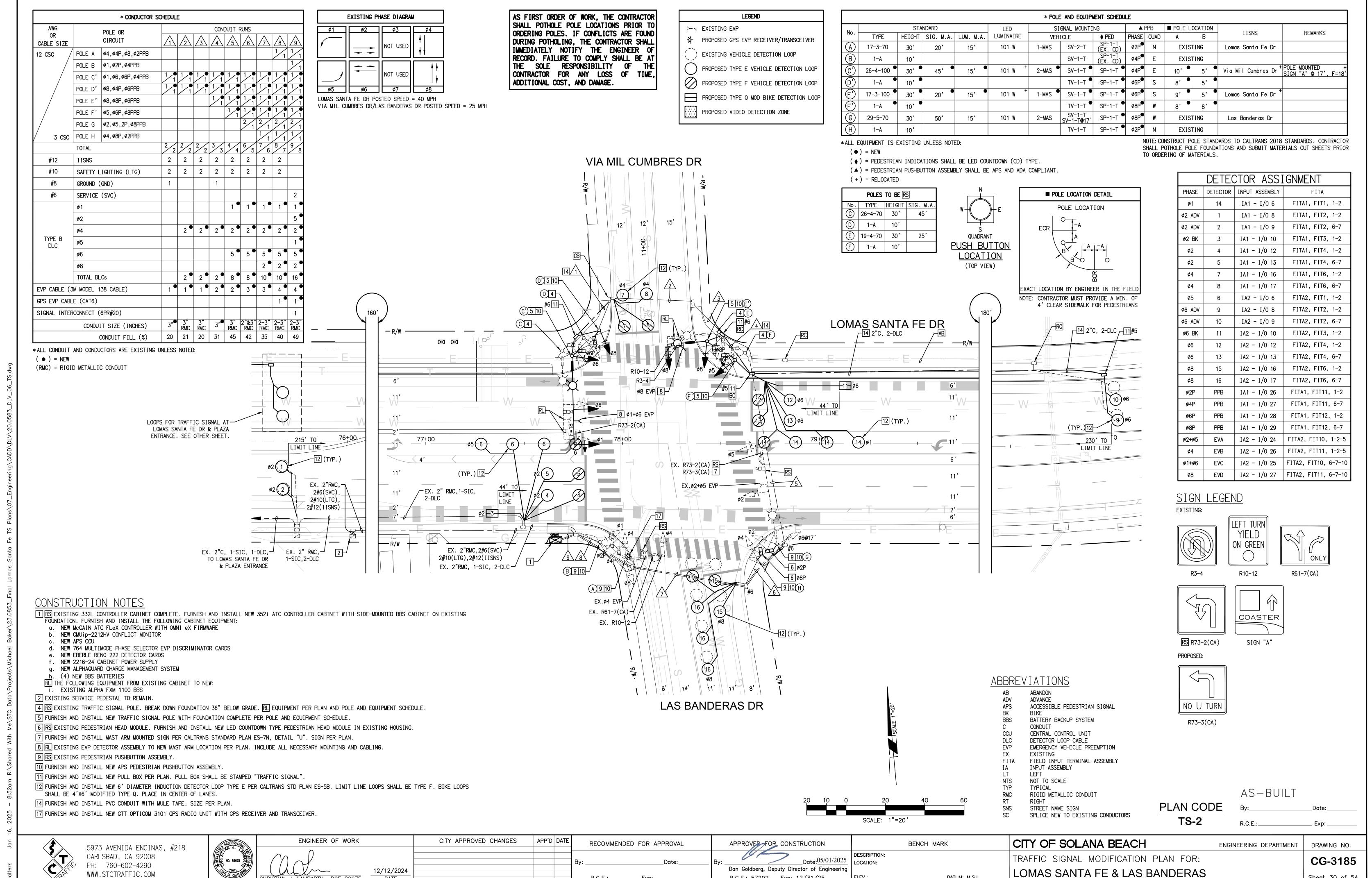
BENCH MARK DESCRIPTION: DATUM: M.S.L. CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR:

LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN

CG-3185 Sheet 28 of 54





R.C.E.:

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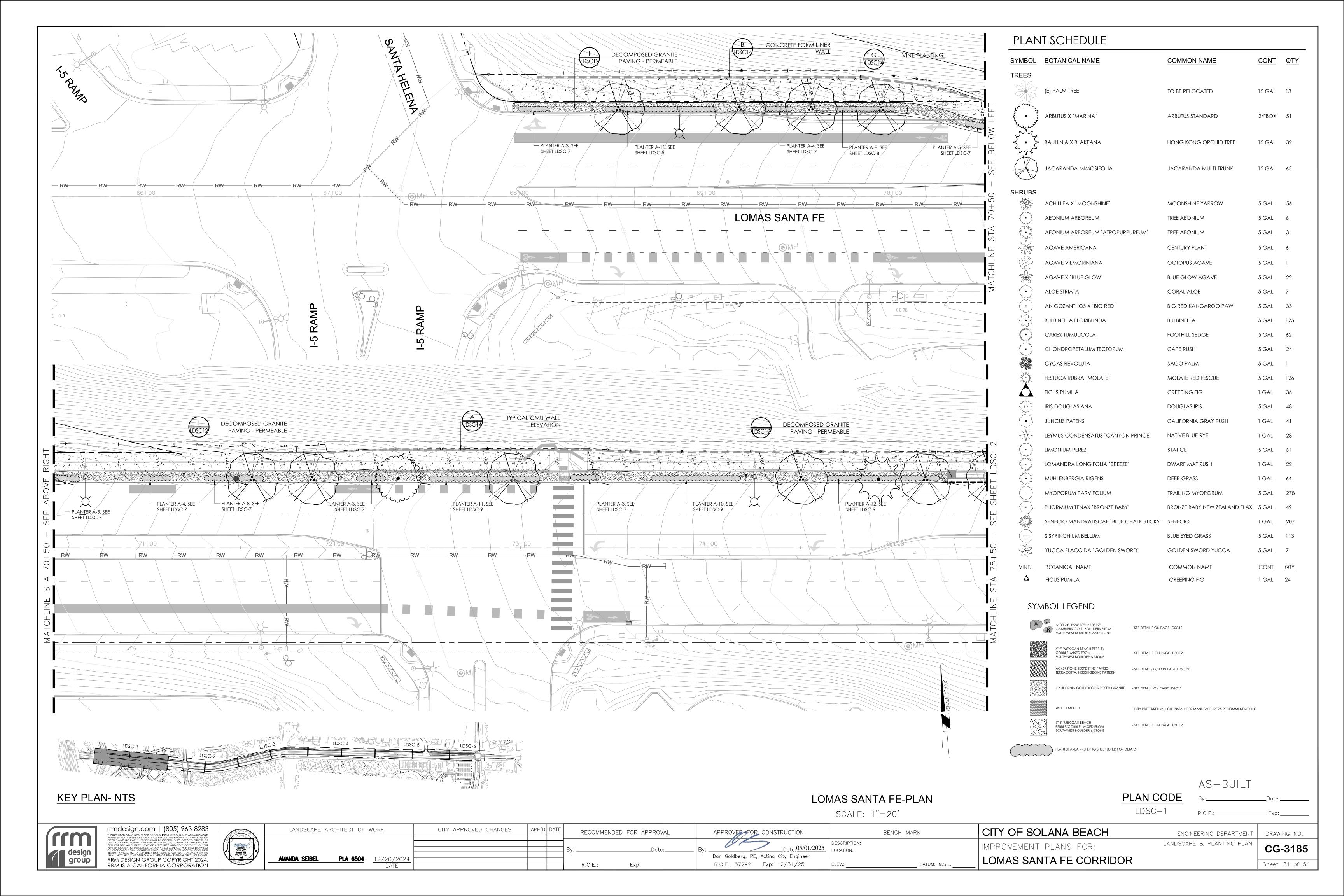
R.C.E.: 57292 Exp: 12/31/25

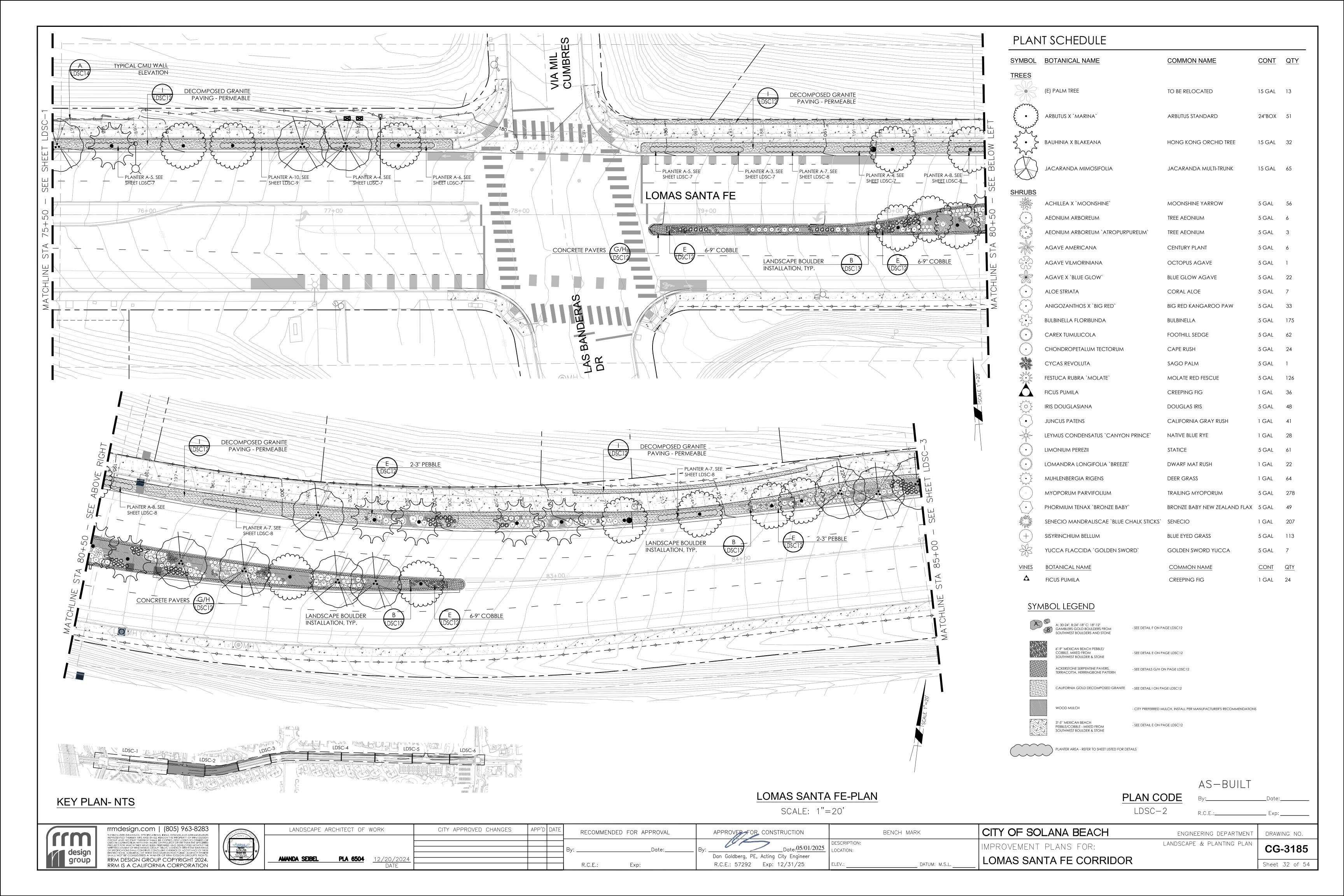
DATUM: M.S.L.

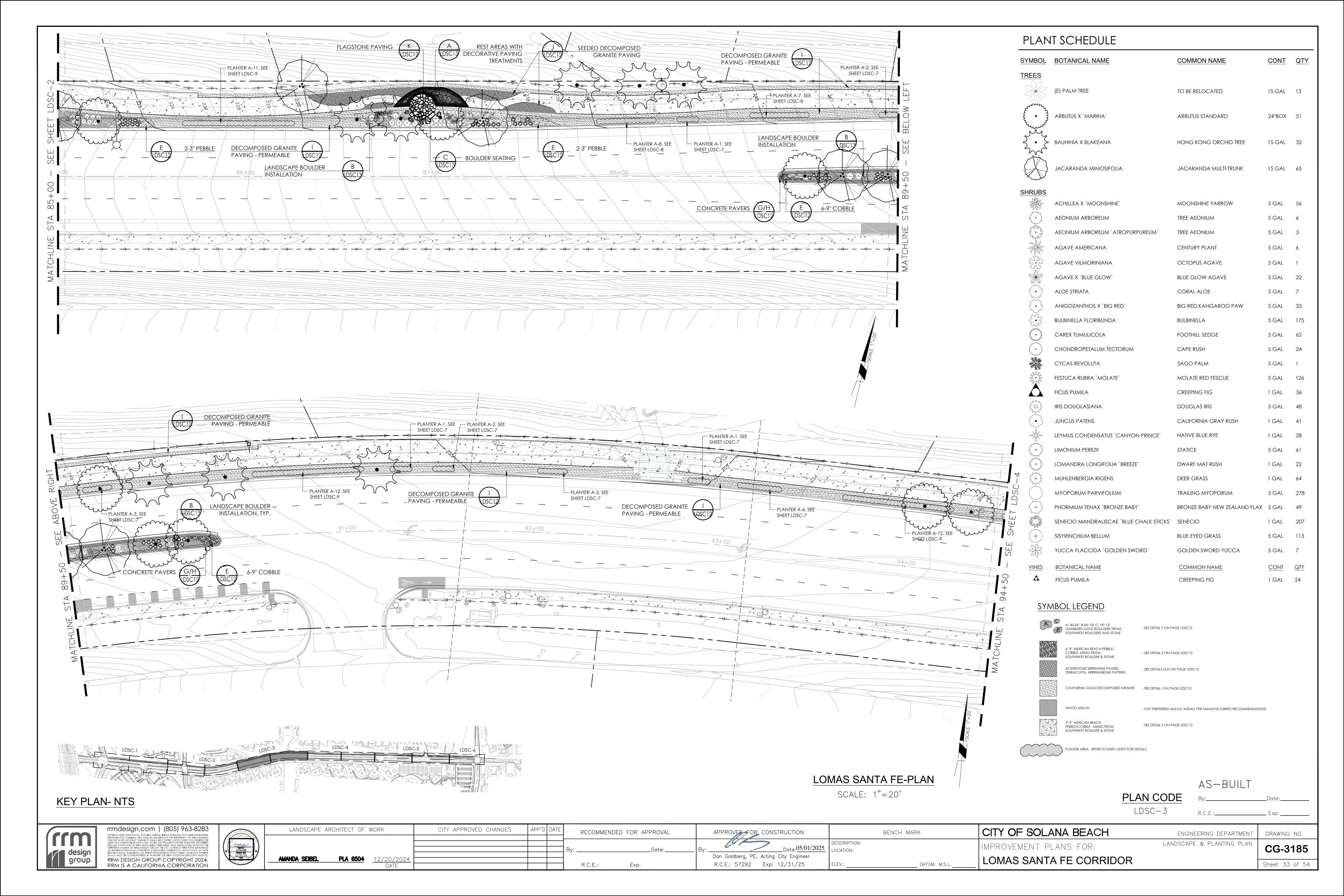
Sheet 30 of 54

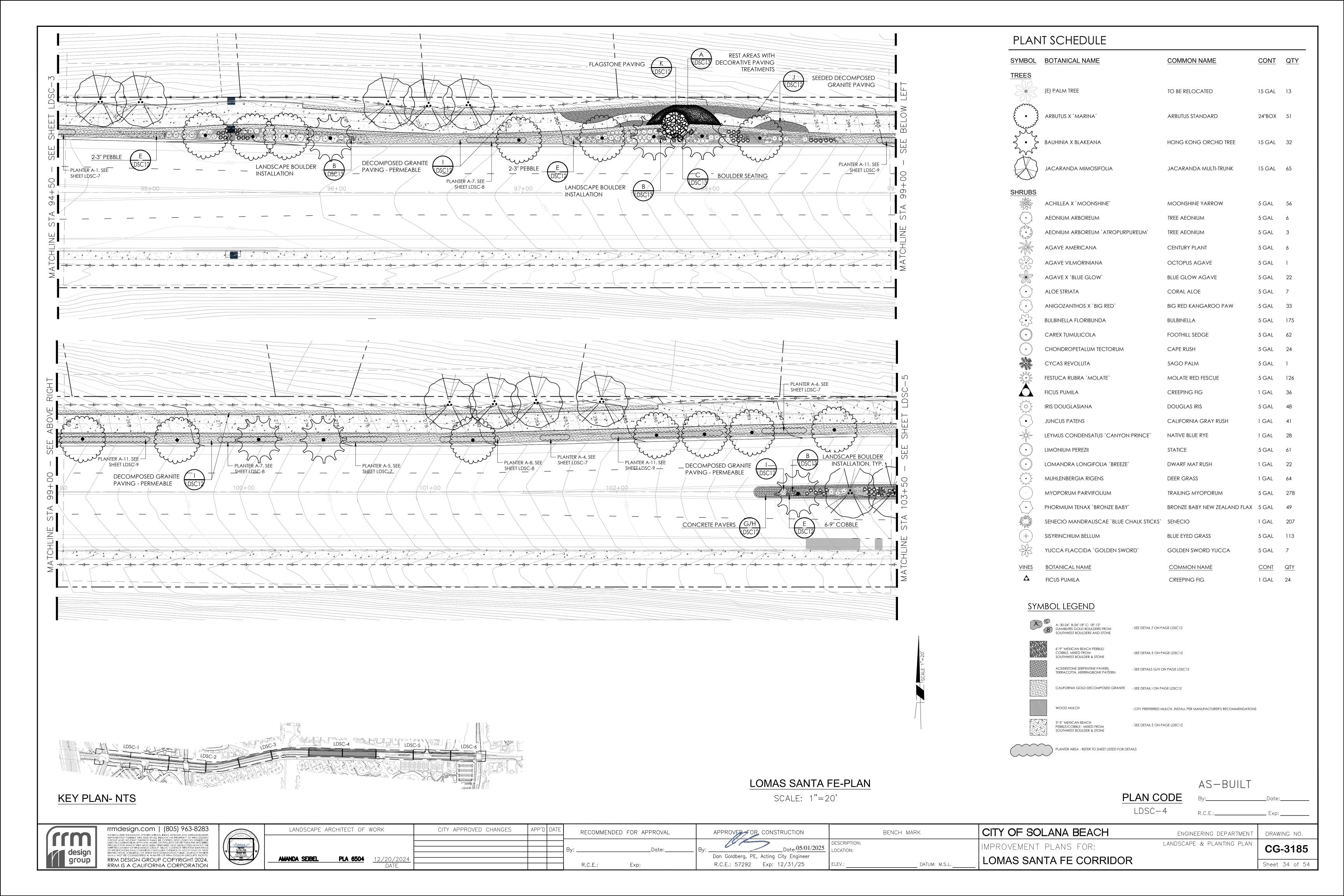
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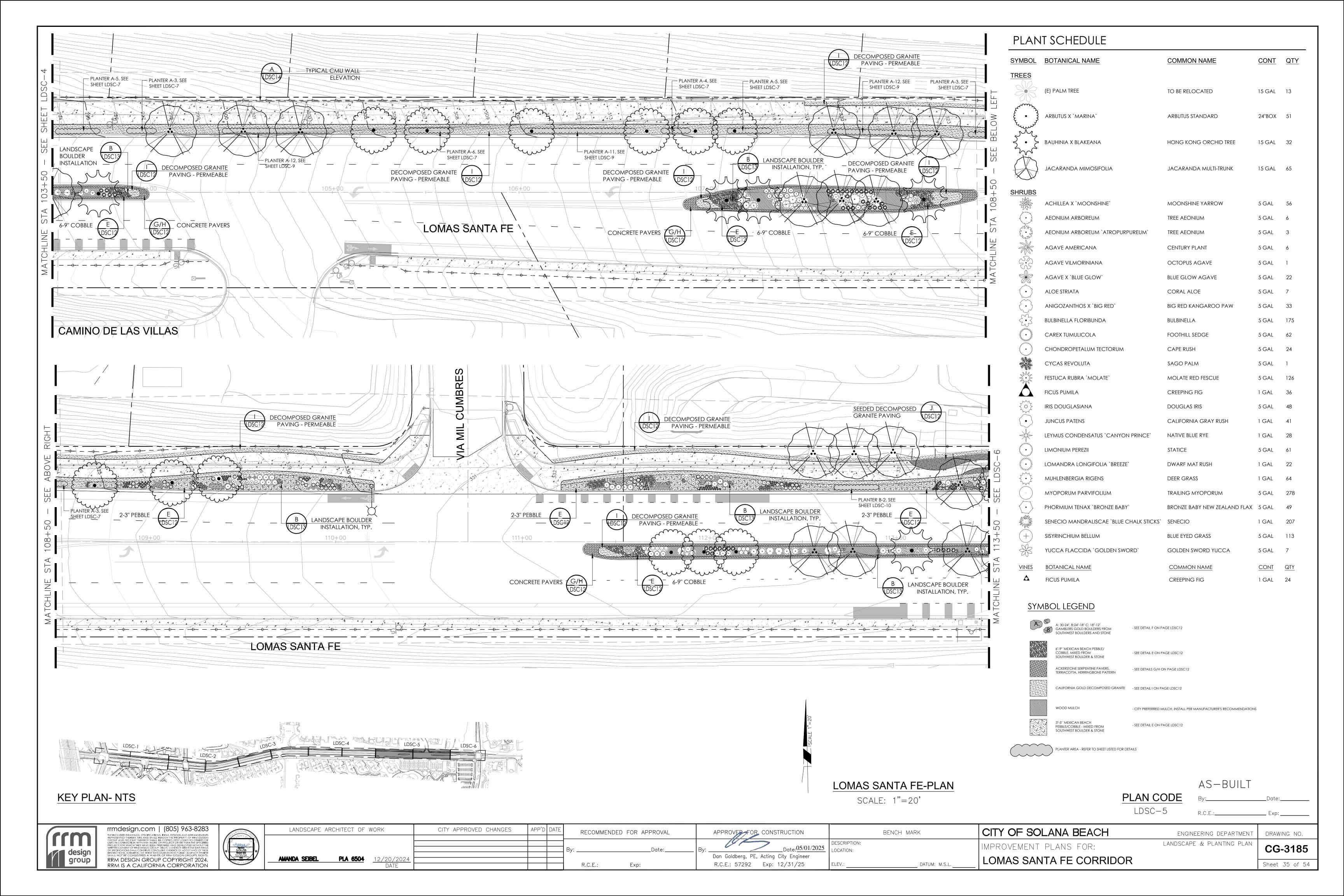
CHRISTIAN J. LAMBARTH RCE 86675

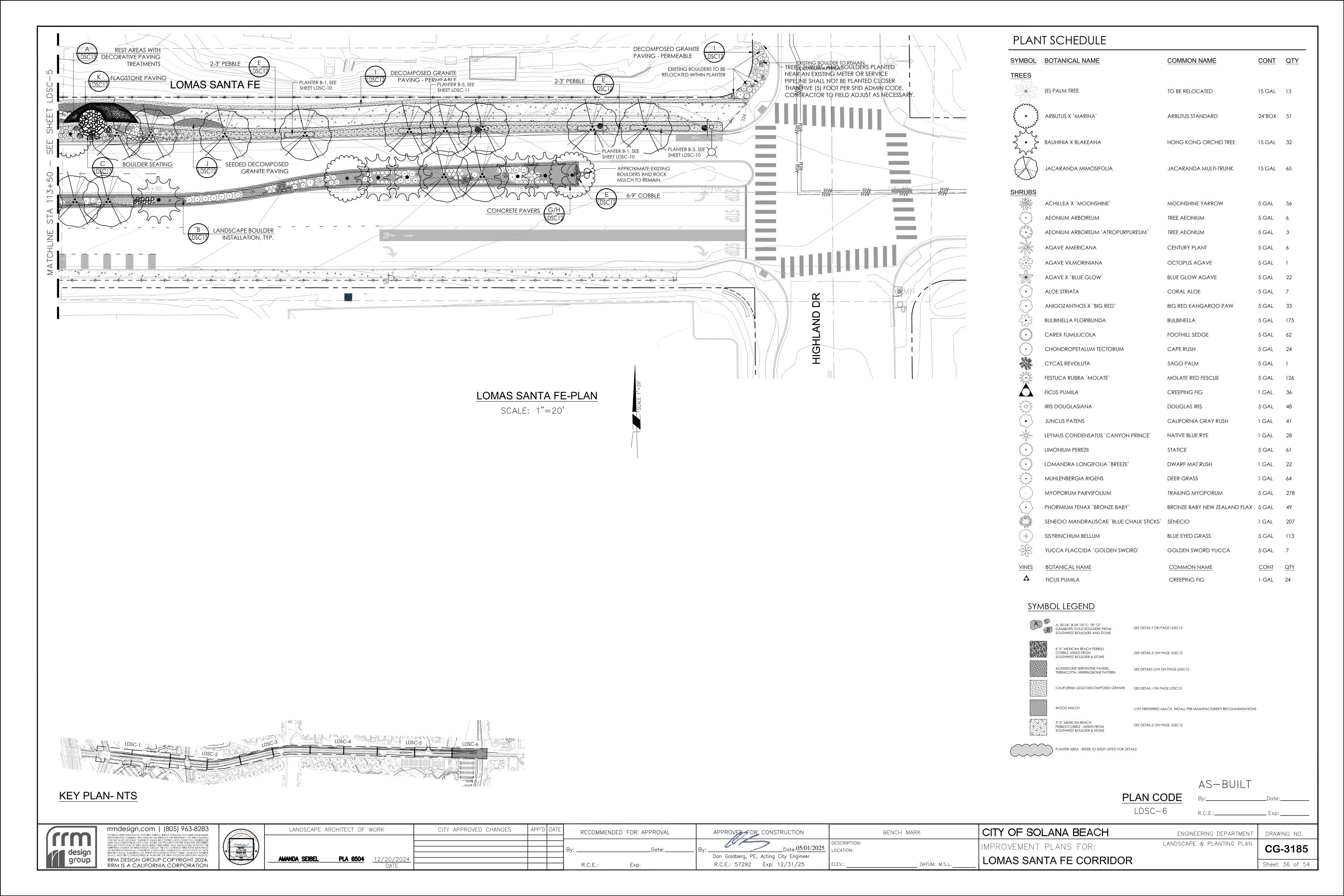


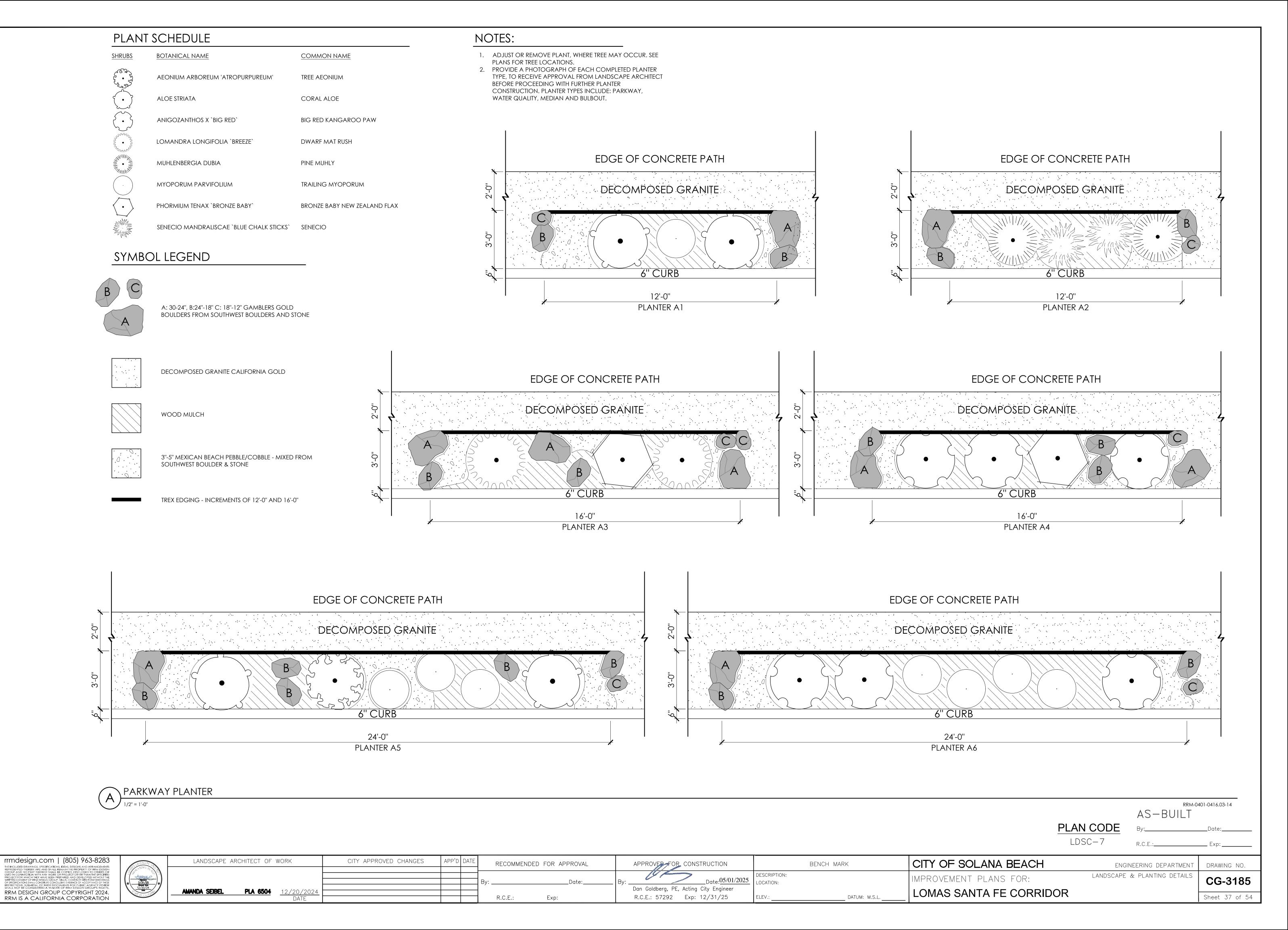


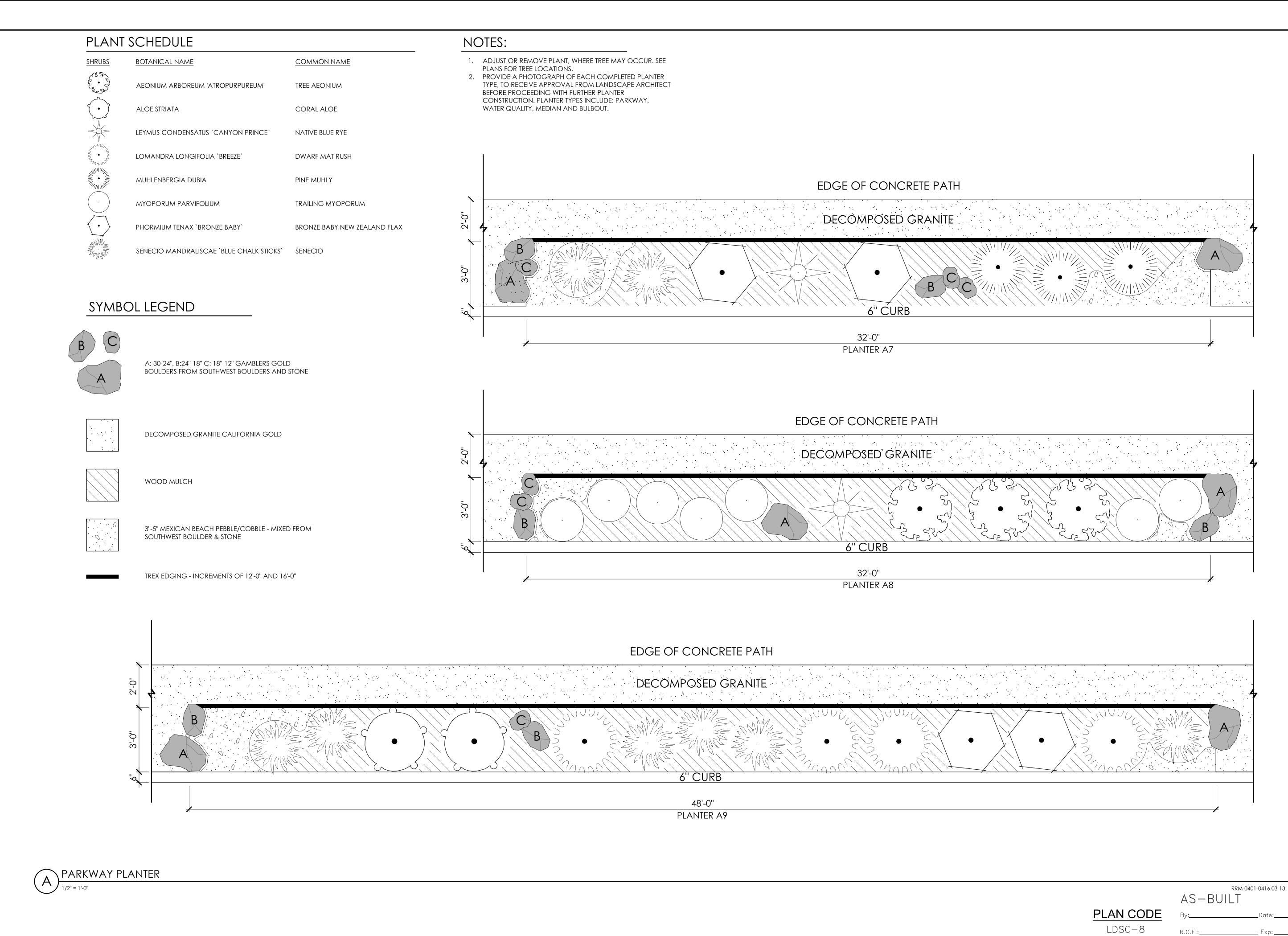














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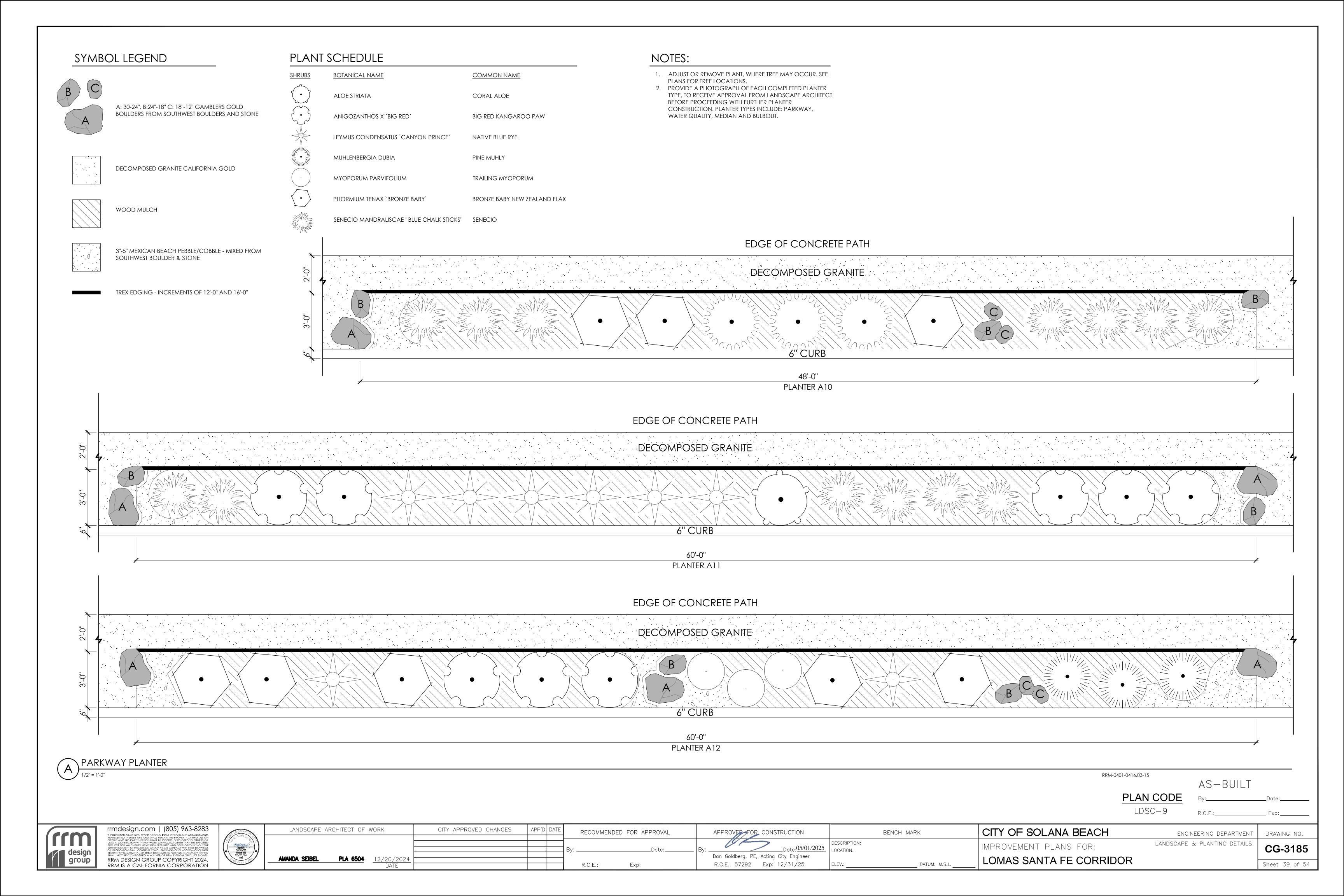
RECOMMENDED FOR APPROVAL Exp:

APPROVED FOR CONSTRUCTION BENCH MARK Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25

CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT DRAWING NO. LANDSCAPE & PLANTING DETAILS

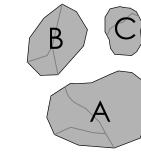
CG-3185 Sheet 38 of 54



PLANT SCHEDULE

<u>SHRUBS</u>	BOTANICAL NAME	COMMON NAME
•	ACHILLEA X `MOONSHINE`	MOONSHINE YARROW
* WALLANDER	CAREX TUMULICOLA	FOOTHILL SEDGE
\odot	CHONDROPETALUM TECTORUM	CAPE RUSH
Z.	FESTUCA RUBRA `MOLATE`	MOLATE RED FESCUE
} 0}	IRIS DOUGLASIANA	DOUGLAS IRIS
•	JUNCUS PATENS	CALIFORNIA GRAY RUSH
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE
$\langle \cdot \rangle$	PHORMIUM TENAX `BRONZE BABY`	BRONZE BABY NEW ZEALAND FLAX
$\overline{+}$	SISYRINCHIUM BELLUM	BLUE EYED GRASS

SYMBOL LEGEND



A: 30-24", B:24"-18" C: 18"-12" GAMBLERS GOLD BOULDERS FROM SOUTHWEST BOULDERS AND STONE



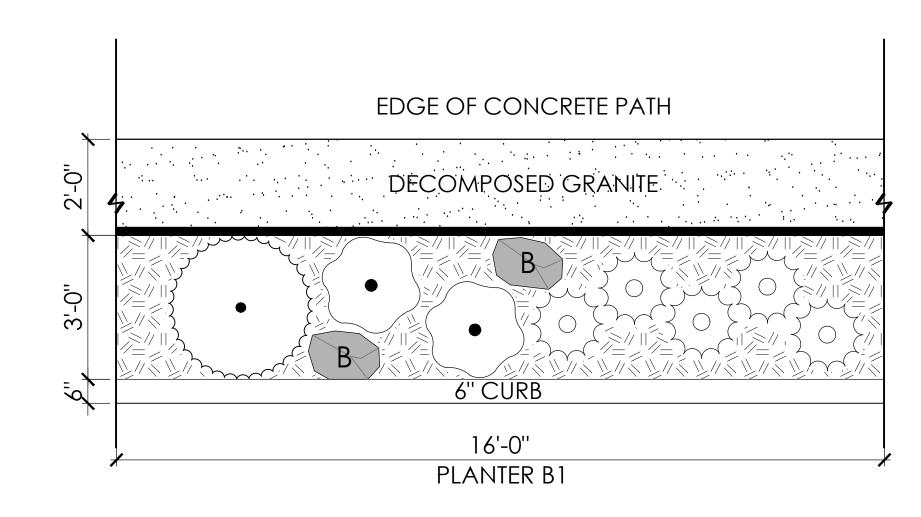
DECOMPOSED GRANITE, CALIFORNIA GOLD



1"-2" MEXICAN BEACH PEBBLE/COBBLE - MIXED FROM SOUTHWEST BOULDER & STONE

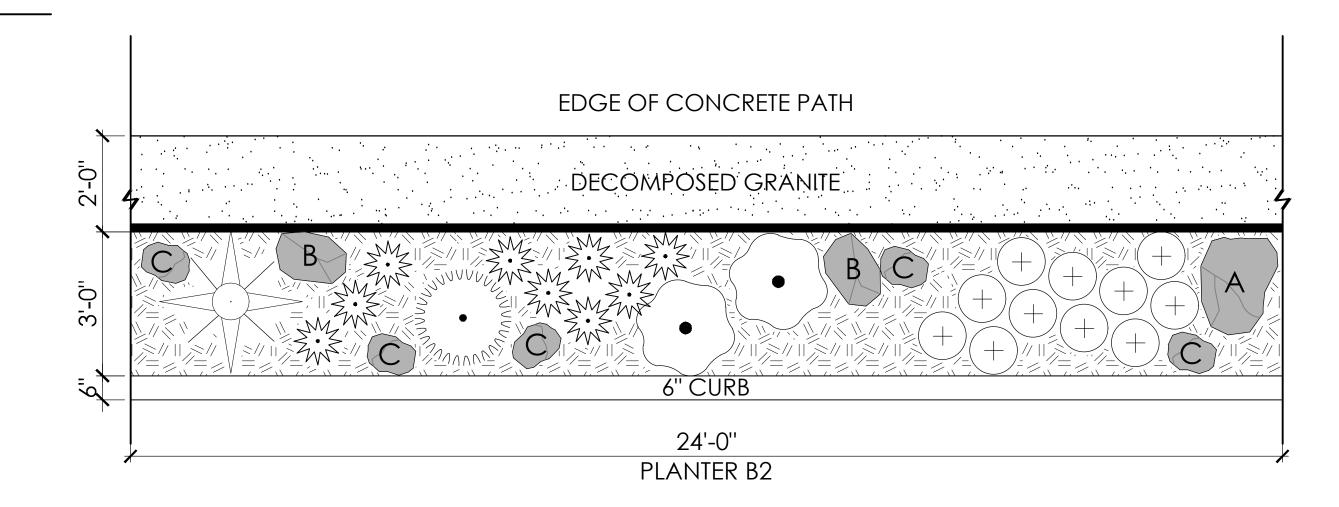


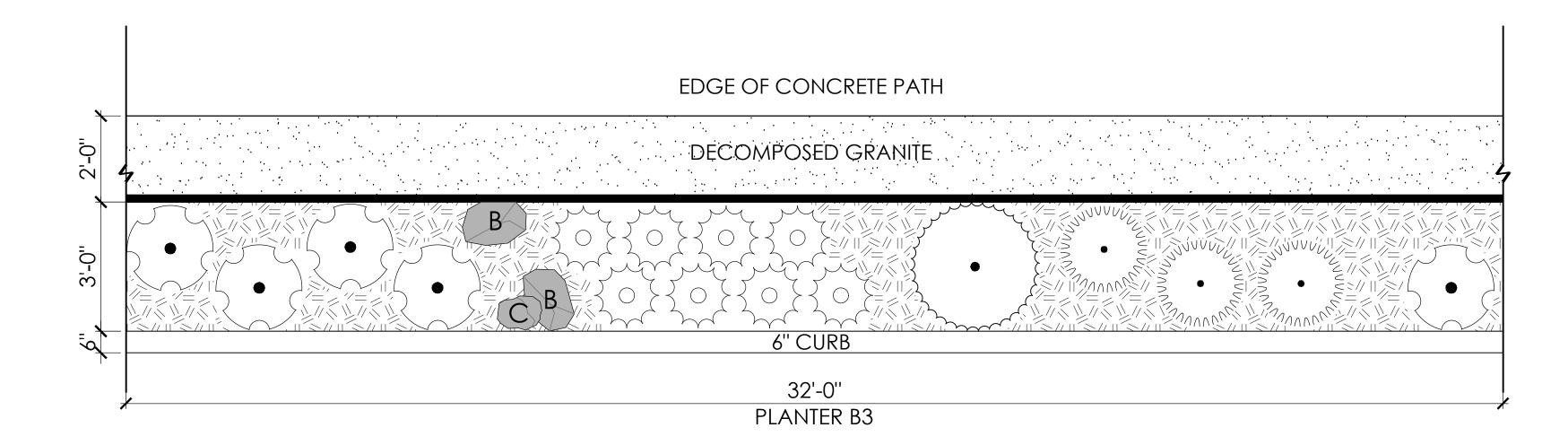
TREX EDGING - INCREMENTS OF 12'-0" AND 16'-0"



NOTES:

- 1. ADJUST OR REMOVE PLANT, WHERE TREE MAY OCCUR. SEE PLANS FOR TREE LOCATIONS.
- 2. PROVIDE A PHOTOGRAPH OF EACH COMPLETED PLANTER TYPE, TO RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH FURTHER PLANTER CONSTRUCTION. PLANTER TYPES INCLUDE: PARKWAY, WATER QUALITY, MEDIAN AND BULBOUT.







RRM-0401-0416.03-12 AS-BUILT PLAN CODE LDSC-10



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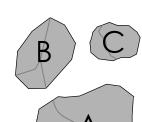
CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT DRAWING NO. LANDSCAPE & PLANTING DETAILS

CG-3185 Sheet 40 of 54

PLANT SCHEDULE COMMON NAME **BOTANICAL NAME** ACHILLEA X 'MOONSHINE' MOONSHINE YARROW CAREX TUMULICOLA FOOTHILL SEDGE CHONDROPETALUM TECTORUM CAPE RUSH FESTUCA RUBRA `MOLATE` MOLATE RED FESCUE IRIS DOUGLASIANA DOUGLAS IRIS CALIFORNIA GRAY RUSH JUNCUS PATENS LEYMUS CONDENSATUS `CANYON PRINCE` NATIVE BLUE RYE **BLUE EYED GRASS** SISYRINCHIUM BELLUM

SYMBOL LEGEND



A: 30-24", B:24"-18" C: 18"-12" GAMBLERS GOLD BOULDERS FROM SOUTHWEST BOULDERS AND STONE



DECOMPOSED GRANITE CALIFORNIA GOLD



1"-2" MEXICAN BEACH PEBBLE/COBBLE - MIXED FROM SOUTHWEST BOULDER & STONE

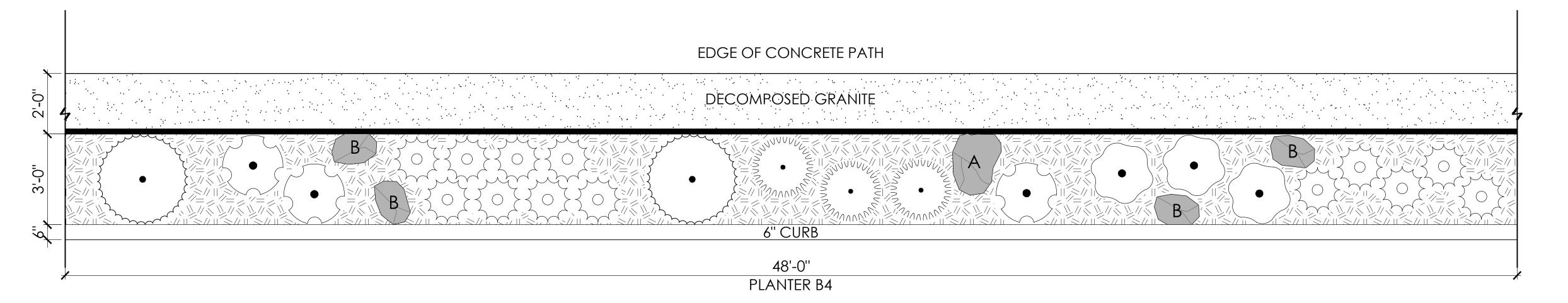


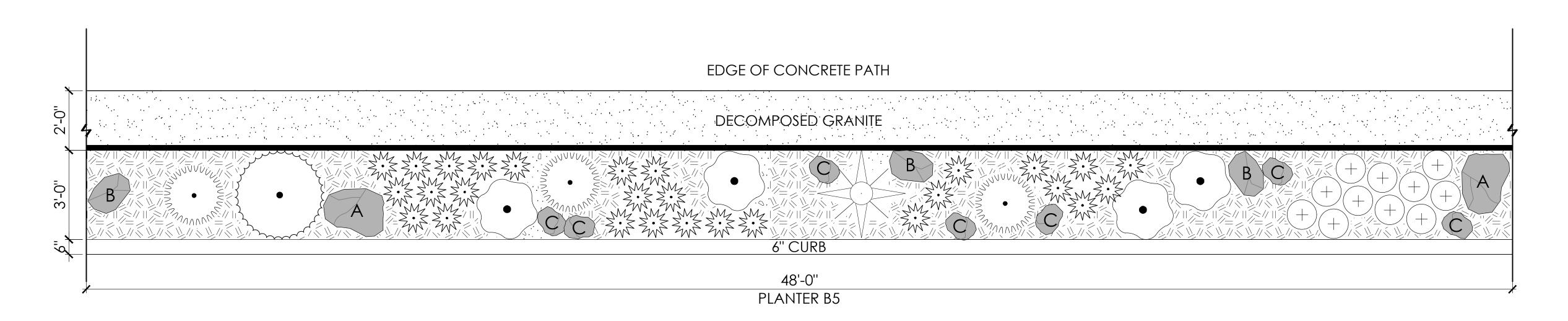
TREX EDGING - INCREMENTS OF 12'-0" AND 16-0"

BENCH MARK

NOTES:

- 1. ADJUST OR REMOVE PLANT, WHERE TREE MAY OCCUR. SEE PLANS FOR TREE LOCATIONS.
- 2. PROVIDE A PHOTOGRAPH OF EACH COMPLETED PLANTER TYPE, TO RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH FURTHER PLANTER CONSTRUCTION. PLANTER TYPES INCLUDE: PARKWAY, WATER QUALITY, MEDIAN AND BULBOUT.



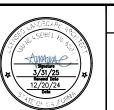


\ WATER QUALITY PLANTER

PLAN CODE LDSC-11

AS-BUILT

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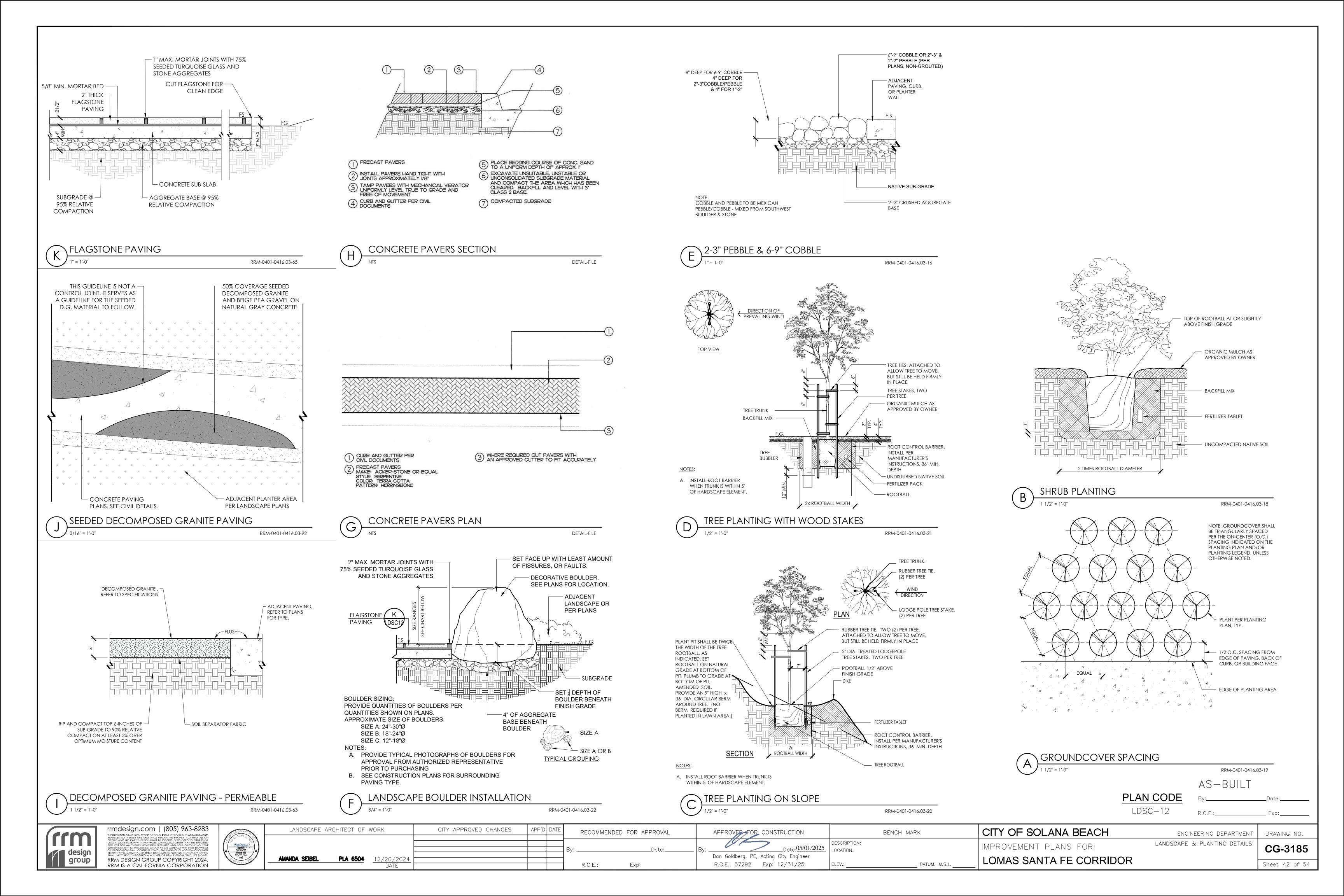
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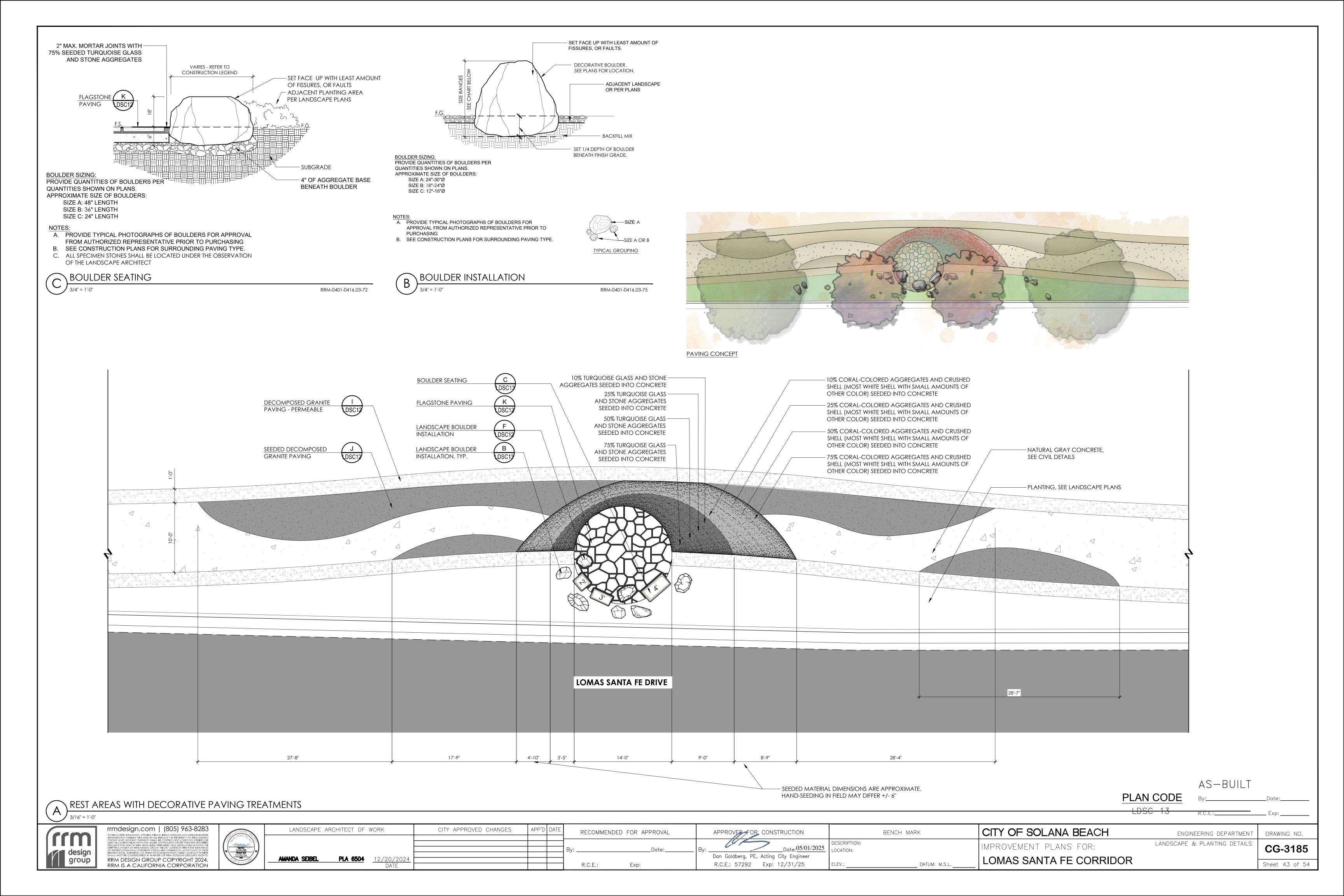
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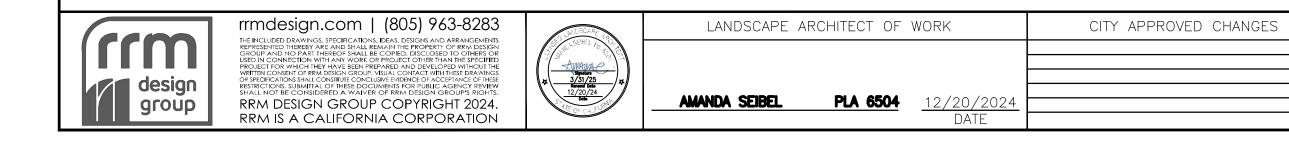
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ENGINEERING DEPARTMENT DRAWING NO. LANDSCAPE & PLANTING DETAILS

CG-3185 Sheet 41 of 54







B. ELEVATION CONCRETE RETAINING WALL

B CONCRETE FORM LINER WALL

ORK	CITY APPROVED CHANGES	APP'D DA	ΓE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	
			Ву:	/:Date:	By:Date: 05/01/2025	DESCRIPTION: LOCATION:	
12/20/2024 DATE				R.C.E.: Exp:	Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25	ELEV.: DATU	M: M.S.L.

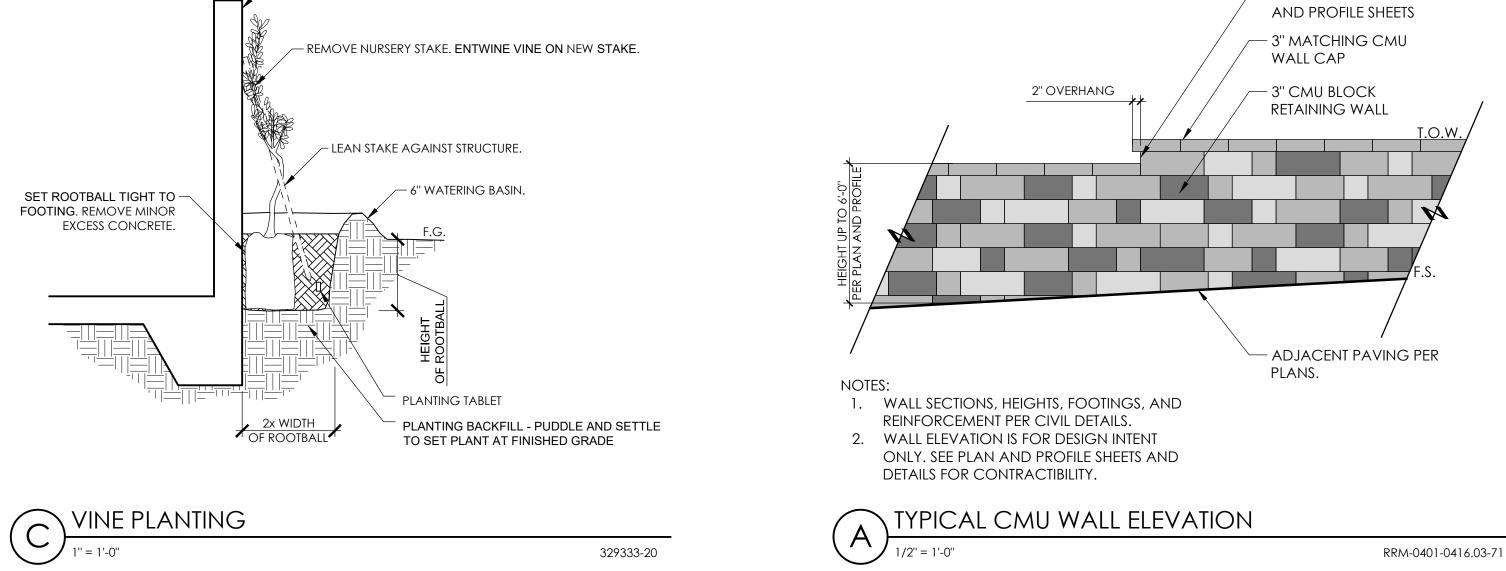
LDSC-14 CITY OF SOLANA BEACH ENGINEERING DEPARTMENT DRAWING NO. LANDSCAPE & PLANTING DETAILS IMPROVEMENT PLANS FOR:

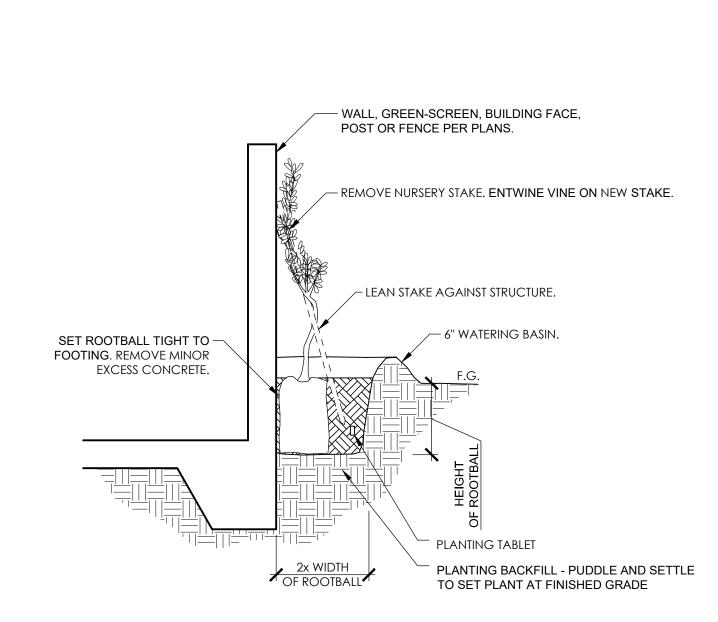
LOMAS SANTA FE CORRIDOR

AS-BUILT PLAN CODE

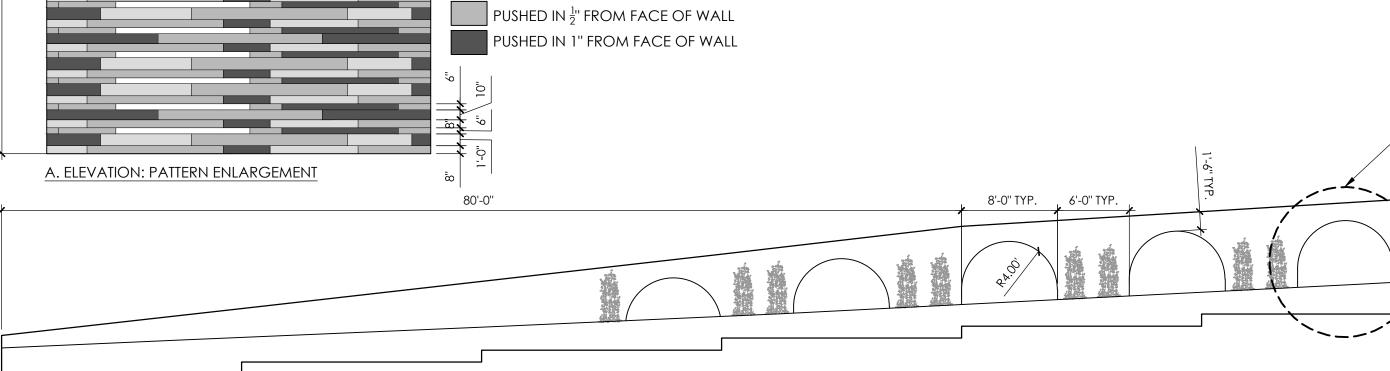
- STEP IN WALL PER PLAN

RRM-0401-0416.03-71









C. FORM LINER INSPIRATION

— EDGE OF FORM LINER

PHOTO TO THE RIGHT.

- HORIZONTAL PATTERN REPEATS VERTICALLY. SEE LEGEND BELOW FOR FORM RELIEF DEPTH. SEE INSPIRATION

EXTRUDED 1" FROM FACE OF WALL

EXTRUDED $\frac{1}{2}$ " FROM FACE OF WALL

- SEE PATTERN ENLARGEMENT TOP LEFT

— TOP OF WALL PER CIVIL PLAN AND PROFILES.

— FINISH SURFACE. SEE CIVIL PLANS.

— VINE LOCATIONS. SEE PLANTING PLAN.

— WALL FOUNDATION LINE PER CIVIL PLAN AND PROFILES.

RRM-0401-0416.03-93

- CONCRETE WALL WITH FORM LINERS. SEE CIVIL DETAILS.

CG-3185

Sheet 44 of 54

- 1. All work shall be done in accordance with the SANTA FE IRRIGATION DISTRICT's Rules and
- Regulations,
 2. Any adjacent drinking water fountains and designated outdoor eating areas shall be profected against contact with recycled water spray, mist, or runoff,
 3. Best management practices shall be used to eliminate or control to the best extent possible
- ponding, runoff, overspray and misting.

 Hose bibs are strictly prohibited.

 Cross-connections between recycled water lines and potable water lines are strictly

- No substitutions of pipe materials will be allowed without prior approval of the SANTA FE
- All mainline pipes shall have warning tape per SANTA FE IRRIGATION DISTRICT's Rules and Regulations.
- Hours for irrigation with recycled water are from 9:00 p.m. to 6:00 a.m. The hours for irrigation with disinfected tertiary recycled water may be modified by the local authority. Iriga during public use periods with disinfected tertiary recycled water shall be under the supervision of the designated user supervisor, Irrigation with water of a lesser quality that disinfected tertiary recycled water shall be between the hours of 9:00 p.m. and 6:00 a.m.
- Butial of all wiring and piping shall meet SANTA FE IRRIGATION DISTRICT's Rules and
- 10. Non-designated use areas shall be protected from contact with recycled water, whether by windblown spray or by direct application through irrigation or other use. Lack of protection, whether by design, construction practice or system operation, is strictly prohibited.

 11. Irrigation heads shall be relocated or adjusted to minimize or eliminate over-spraying on
- sidewalks, streets and non-designated use areas.
- Recycled water quick coupling valves shall be of a type designed for the use on recycled water distribution systems per SANTA FE IRRIGATION DISTRICT'S Rules and Regulations.
 On recycled water systems, all appurtenances (spirikler heads, valve boxes, etc.) shall be color-coded purple per AWWA guidelines and Section 116815 of the California Health and
- All irrigation pipes shall be stenciled with the warning, "NON-POTABLE or RECYCLED WATER," color-coded (purple) and laid with warning tape and stenciling oriented toward the lop of the trench per the SANTA FE IRRIGATION DISTRICT's Rules and Regulations.
- 15. On new on-site systems (post-meter), potable water, constant pressure recycled water and sewer lines should be placed a minimum of four feet apart or as directed by the project engineer and/or regulatory agency. Measurements shall be between facing surfaces, not pipe center lines.
- 16. Constant pressure recycled water lines shall cross at least twelve inches below potable water
- ines and maintain at least twelve inches crossing separation between other utilities.

 17. If a constant pressure recycled water line must be installed above a potable water line or less than twelve inches below a potable water line, then the recycled water line shall be installed. within an approved protective sleeve as per the SANTA FE IRRIGATION DISTRICT's Rules and
- Regulations
 18. Developer/contractor shall conduct a cross-connection test and coverage test as directed by the SANTA FE IRRIGATION DISTRICT and/or the San Diego County Department of Environmental Health prior to any use of recycled water
- 19. The required cross-connection inspection shall be done by either the SANTA FE IRRIGATION DISTRICT and/or the San Diego County Department of Environmental Health. Copies of inspection reports will be forwarded to the non-inspecting party.
- 20. The design and locations proposed for recycled water "Do Not Drink" signs shall be called
- 21. When recycled water becomes available, an on-site user supervisor shall be designated in writing. This individual shall be familiar with plumbing systems within the property, with the basic concepts of backflow/cross-connection protection, the recycled purveyor's rules and regulations and the specific requirements of a recycled water system. Copies of the designation, with contact phone numbers shall be provided to the SANTA FE IRRIGATION DISTRICT and/or the San Diego County Department of Environmental Health. On-site user supervisor will need to attend recycled water site supervisor certification webinar and receive certification to be considered a sile supervisor. Training webinar is listed under "Training" at https://www.sandiego.gov/public-utilities/sustainability/recycled-water

In case of emergency contact City of Solana Beach Public Works Department at

Or after hours contact City of Solana Beach Public Works Department at 858-756-3006

- 22. Educate all maintenance personnel on a continuous basis of the presence of recycled water. Personnel must be informed that recycled water is meant for irrigation purposes only and is not approved for drinking purposes, hand washing, cleaning of tools, etc. Given the high turnover rate of employees in the landscape industry it is important this information be disseminated on an almost daily basis.
- A physical separation shall be provided between adjacent areas irrigated with recycled water and potable water. Separation shall be provided by distance, concrete mow strips or other approved methods.
- 24. There shall be no direct (pipe-to-pipe) drainage of recycled water into the storm drains 25. Brow ditches and/r catch basins are required to minimize recycled water runoff into storm
- 26. All recycled water sprinkler control valves shall be tagged with identification tags, Tags shall be weatherproof plastic 3" x 4", purple in color, with words "Warning Recycled Water - Do Not Drink" imprinted on one side and "Avisa - Aqua Impura - No Tomar" on the other side Imprinting shall be permanent and black in colo

One tag shall be altached to each valve as follows:

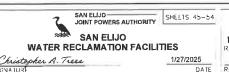
Attach to valve stem directly or with plastic fie wrap: o

IRRIGATION NOTES

- CONTRACTOR SHALL SLEEVE LINDER PAVING PER PLANS AND SPECIFICATIONS. TWICE (2X) THE SIZE OF PIPE ENCLOSED. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLING TO EASILY SLIDE THROUGH SLEEVING MATERIAL, EXTEND ALL SLEEVES 18" BEYOND EDGE OF PAVING, SLEEVES SHALL BE PROVIDED FOR CONTROLLER WIRES ALONG MAINLINE, TYPICAL
- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C., VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- 3. ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY
- 4. CONTACT WATER DEPARTMENT REGARDING INSPECTION, PERMIT, LOCATION AND INSTALLATION REQUIREMENTS FOR BACKFLOW PREVENTION DEVICES AND WATER SOURCES/METERS AND PIPELINE INSPECTION AND ASSOCIATED
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- 6. CONTRACTOR SHALL INSTALL SOLAR PANEL TO PROVIDE POWER TO CONTROLLER, THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION, HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR, THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS. PRIOR TO BEGINNING WORK SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE. ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN
- 10. PROVIDE PVC SHUTOFF VALVE FOR EACH VALVE MANIFOLD.
- 11. ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN, CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE OWNER. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS
- ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES NECESSARY FOR RETROFITS SHALL BE LOCATED IN PLANTING AREAS 18" MIN. AWAY FROM ADJACENT PAVING AND 5" MIN.
- FOR DRIP AREAS: CONTRACTOR TO INSTALL CHECK VALVES, AIR RELIEF VALVES, OPERATION INDICATORS, AND FLUSH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 15. CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL
 - 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES.
 3. ALL ZONES SHALL PASS A COVERAGE TEST.

 - 4. CONTROLLERS SHALL BE FULLY OPERATIONAL
- ASSUMED AVAILABLE PRESSURE FOR THE IRRIGATION SYSTEM IS NOTED ON PLANS, CONTRACTOR TO VERIFY PRESSURE AT EACH POINT OF CONNECTION, AND CONSTRUCT A PRIVATE BOOSTER PUMP FOR THE IRRIGATION SYSTEM IF THE ASSUMED PRESSURE IS FOUND TO BE LOWER THAN SPECIFIED OR OTHERWISE INSUFFICIENT.
- TWO "SPARE" WIRES SHALL RUN FROM THE CONTROLLER TO THE FARTHEST IRRIGATION VALVE(S). LOOP WIRES INTO VALVE BANKS ALONG THE RUN, TYPICAL. (ONE EXTRA TWO-WIRE SYSTEM SPARE.)
- 18. THE SOLAR PANEL SHALL BE INSTALLED FACING SOUTH AT AN ANGLE OF AROUND 35 DEGREES. THE SOLAR PANEL SHALL BE INSTALLED IN A CLEAR OPEN AREA NOT EFFECTED BY SHADE FROM TREES OR BUILDINGS PREVENTING DIRECT SUNLIGHT FROM DAWN TO DUSK. ALL SOLAR PANEL WIRING SHALL BE CONCEALED IN ACCORDANCE WITH MARCHFACTURERS INSTRUCTIONS.
- 19 DISTANCE OF CONTROLLER TO SOLAR PANEL NOT TO EXCEED 30' UNLESS A SPLICE IS INSTALLED BETWEEN THE SOLAR POLE AND THE CONTROLLER ASSEMBLY, NEVER EXCEED 60"
- 20 CONTACT WATER DEPARTMENT REGARDING INSPECTION, PERMIT, LOCATION AND INSTALLATION REQUIREMENT. FOR BACKFLOW PREVENTION DEVICES AND WATER SOURCES/MÉTERS AND PIPELINE INSPECTION AND ASSOCIATED
- 21+ ALL RECYCLED WATER IRRIGATION COMPONENTS SHALL BE IDENTIFIED AND PROPERLY TAGGED PER SAN DIEGO COUNTY DEH AND CITY REQUIREMENTS.
- THE INITIAL INSPECTION AND CROSS CONNECTION TEST MUST BE COMPLETED WITH AN ALTERNATE POTABLE WATER SOURCE, TYPICALLY FED BY A HIGHLINE CONNECTED TO A FIRE HYDRANT WITH A TEMPORARY METER AND
 BACKFLOW ASSEMBLY, ONCE ALL INSPECTIONS AND CROSS CONNECTION TESTING HAVE BEEN COMPLETED AND
 APPROVED BY SANTA FE IRRIGATION DISTRICT, SAN ELIJO JOINT POWERS AUTHORITY, AND DEHQ, THE SITE WILL BE APPROVED TO CONNECT TO RECYCLED WATER.
- 23. POTABLE HIGHLINE, THE CONTRACTOR IS REQUIRED TO INSTALL A POTABLE HIGHLINE TO SUPPLY WATER TO THE NEW RECYCLED WATER IRRIGATION SYSTEM, BEFORE UTILIZING THE RECYCLED WATER, THE CONTRACTOR MUST ENSURE THAT A SHUTDOWN TEST IS COMPLETED WITH THE DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH) IN THE
- 24. ALL IRRIGATION LIDS SHALL BE BRANDED WITH CONTROLLER ID AND STATION NUMBER.

IRRIGATION APPROVALS



SHEETS 45-5 COUNTY OF SAN DIEGO DEPARTMENT OF **ENVIRONMENTAL HEALTH AND QUALITY (DEHQ)** Jenna Lepore Digitally signed by Jenna Lepore Date: 2025 02.05 11:36:26 -08'00 REPRESENTATIVE SIGNATURE

SANTA FE IRRIGATION DISTRICT CITY APPROVED CHANGES APP'D DATE

SHEETS 45-54 2/2/25

IRRIGATION 2-WIRE NOTES

- 1. ALL VALVES LOCATED TO BE INSTALLED ON A 2-WIRE PATH AND RECEIVE DECODER
- 2. 2-WIRE CONDUIT SHALL BE LOCATED ALONG ALL IRRIGATION MAINLINE, TYPICAL
- 3. INSTALL POC DECODER AT EACH PAIR OF PROPOSED MASTER VALVE AND FLOW
- GROUNDING RODS TO BE INSTALLED ALONG 2-WIRE PATH PER MANUFACTURER'S INSTRUCTIONS AND DETAIL K ON LDSC-22
- 5: DECODER GROUNDING HARDWARE SHOULD ALWAYS BE CONNECTED AND PLACED AT RIGHT ANGLES TO THE RUN OF THE TWO-WIRE PATH
- THE 2-WIRE DECODERS SHALL USE #14 AWG DIRECT BURIAL WIRES TO CONNECT TO REMOTE CONTROL VALVES.
- 7. MAXIMUM RECOMMENDED DISTANCE BETWEEN SOLENOID AND DECODER IS 100'.
- THE 2-WIRE CABLE SHALL EITHER BE PAIGE P7354D OR REGENCY'S HUNTER DECODER
- ALL CONNECTIONS AND SPLICES IN THE RED/BLUE TWO-WIRE PATH (IDWIRE) MUST BE WATERPROOF AND MOISTURE-RESISTANT AND SHALL BE DONE WITH 3MTM SCOTCHCASTTM 3570G CONNECTOR SEALING PACKS WITH WIRE NUT ONLY, ALL UNUSED DECODER AND SLICE WIRES MUST GET A CONNECTOR PACK.
- WHENEVER A SPLICE OR CONNECTION IS MADE, IT IS IMPORTANT TO LEAVE ADEQUATE SLACK IN THE WIRES, LEAVE 5 FT/1.5 M SLACK TO PREVENT CONTRACTION OF THE WIRE FROM DAMAGING THE CONNECTIONS, AND TO ALLOW THE SPLICES TO BE REMOVED FROM THE VALVE BOX FOR SERVICE OR INSPECTION.
- INSTALL THE GROUNDING WIRE AND EARTH GROUND HARDWARE AT RIGHT ANGLES FROM THE TWO-WIRE PATHS, WHEN POSSIBLE
- 10. ALL CONTROL WIRES LEADING FROM VALVES TO CONTROLLER SHALL BE LOOPED-UP A MINIMUM OF 30" INTO EVERY VALVE BOX INTERCEPTED ON THE WAY TO THE CONTROLLER, WIRE SHALL BE PER MANUFACTURERS RECOMMENDATION, ALL WIRE INSULATION SHALL BE INTACT AND FREE OF NICKS AND CUTS, ALL WIRE CONNECTIONS NEED TO BE ABSOLUTELY WATER TIGHT. FACH CONTROLLER SHALL HAVE A DIFFERENT WIRE JACKET COLOR, AND THAT COLOR SHALL BE INDICATED BY CONTRACTOR ON THE AS-BUILT DRAWINGS
- 16. USE #6 AWG SOLID COPPER WIRE FROM THE COPPER ROD TO THE FIELD COMMON WHITE WIRES IN THE BLACK HARNESS) OF THE CONTROLLER
- PROVIDE A 1" ELECTRICAL CONDUIT FOR EACH SET OR PAIR OF TWO-WIRE PATH, INCREASE THE CONDUIT BY 1/2" INCREMENT FOR EACH ADDITIONAL PAIR OF TWO WIRES.

DECLARATIONS OF RESPONSIBILITY

I HEREBY DECLARE THAT I AM THE <u>LANDSCAPE ARCHITECT</u> OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6730 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE <u>CITY OF</u>
<u>SOLANA BEACH</u> AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH IS
CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS THE <u>LANDSCAPE ARCHITECT</u> OF WORK OF MY RESPONSIBILITIES FOR PROJECT DESIGN. 32332 CAMINO CAPISTRANO, STE 205.

RRM DESIGN GROUP

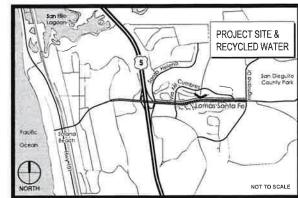
SAN JUAN CAPISTRANO, CA

AMANDA SEIBEL LA6504 03/31/25

ANDSCAPE ARCHITECT LICENSE NO. & EXPIRATION DATE

THE LOMAS SANTA FE SITE WILL BE MAINTAINED BY THE CITY OF SOLANA BEACH PUBLIC WORKS

VICINITY MAP



SHEET INDEX

LDSC-19

- LDSC-15 IRRIGATION SCHEDULE AND NOTES IRRIGATION PLAN IRRIGATION PLAN
- IRRIGATION PLAN LDSC-21 IRRIGATION PLAN IRRIGATION DETAILS

IRRIGATION PLAN

IRRIGATION DETAILS IRRIGATION DETAILS

COMPLIANCE WITH MWELO

- PROJECT INFORMATION SEE COVER PAGE OF THIS DRAWING SET FOR ALL INFORMATION INCLUDING DATE, PROJECT
- APPLICANT AND OWNER, AND ADDRESS.
 TOTAL LANDSCAPE AREA:
 SHRUBS, GROUNDCOVER AND TREES 22,000 SF

TURF - 0 SF

- PROJECT TYPE REHAB
- PROJECT TITE REMAD
 WATER SUPPLY NON-POTABLE
 CHECKLIST OF ALL DOCUMENTS IN LANDSCAPE DOCUMENT PACKAGE:
 LANDSCAPE DESIGN PLAN INCLUDED IN THESE LANDSCAPE DRAWINGS

IRRIGATION DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS

- GRADING DESIGN PLAN PER CIVIL SHEETS

 SEE SHEET BELOW FOR WATER EFFICIENT LANDSCAPE WORKSHEET

 SEE SHEET BELOW FOR WATER BUDGET CALCULATIONS (MAWA) AND (ETWU)

 I AGREET DO COMPLY WITH THE REQUIREMENTS OF THE COMPLIANCE OPTION TO THE MWELO

AMANDA SEIBEL - CA RLA #6504

California Code of Regulations, Title 23, Division 2, Chapter 2,7, Model Water Efficient Landscape Ordinance as available from: Thomson Reuters Westlaw.

CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING ITEMS:

SOILS MANAGEMENT REPORT

- Submit soil samples to a laboratory for analysis and recommendations. Soil sampling shall be conducted in accordance with laboratory protocol, including protocols regarding adequate sampling depth for the intended
- The soil analysis may include: soil texture; infiltration rate determined by laboratory test or soil texture infiltration rate table; pH; total soluble salts; sodium; percent organic matter; and recommendations
- The soil analysis report shall be submitted to the local agency as part of the Certificate of Completion.

 The soil analysis report shall be made available, in a timely manner, to the professional preparing the landscape design plans and irrigation design plans to make any necessary adjustments to the design. The project applicant, or higher designee, shall submit documentation verifying implementation of soil analysis report recommendations to the local agency with Certificate of Completion.

 CERTIFICATE OF COMPLETION - SEE APPENDIX CO FI HE MWELO

 IRRIGATION SCHEDULING - PER SECTION 492.10 OF THE MWELO
- SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE PER SECTION 492.11 OF THE MWELO
- IRRIGATION AUDIT REPORT PER SECTION 492, 12 OF THE MWELD

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Document Package

Reference Evapor	transpiration (Et	to)	41						
Hydrozone # /Planting Description*	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq, ft)	ETAF x Area	Estimated Total Water Use (ETWU)		
Regular Landscap	e Areas								
N/A			-						
				Totals					
Special Landscape	e Areas								
Recycled Water		211	2.00	1	22000		559,240		
				Totals	22000		559,240		
						ETWU Total	559,240		
			М	Maximum Allowed Water Allowance (MAWA)					

*MAWA (Annual Gallons Allowed

(Eto) (0.62) [(ETAF x LA)]+((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acre-inches per ocre per year to gallons per square foot per year. LA is the total landscape area in square feet. SLA is the total special landscape area in square feet, and ETAF is 55 for residential areas and 0.45 for non-residentic

Average FTAF for Regular Landscape Areas must be 0.55 residential areas

ETWU (Annual Gallons Required Eto x 0.62 x (ETAF x Area) where 0.62 is a conversion factor that converts acre iches per acre per year to galls per square foot per year

PLAN CODE

LDSC-15

AS-BUILT

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AMANDA SEIBEL

PLA 6504 12/20/2024

RECOMMENDED FOR APPROVAL

Don Goldberg, PE, Acting City Engine

APPROVED FOR CONSTRUCTION

Data 05/01/2025

BENCH MARK

IMPROVEMENT PLANS FOR:

LOMAS SANTA FE CORRIDOR

CITY OF SOLANA BEACH

ENGINEERING DEPARTMENT IRRIGATION SCHEDULE AND NOTES

CG-3185

Sheet 45 of 54

DRAWING NO.

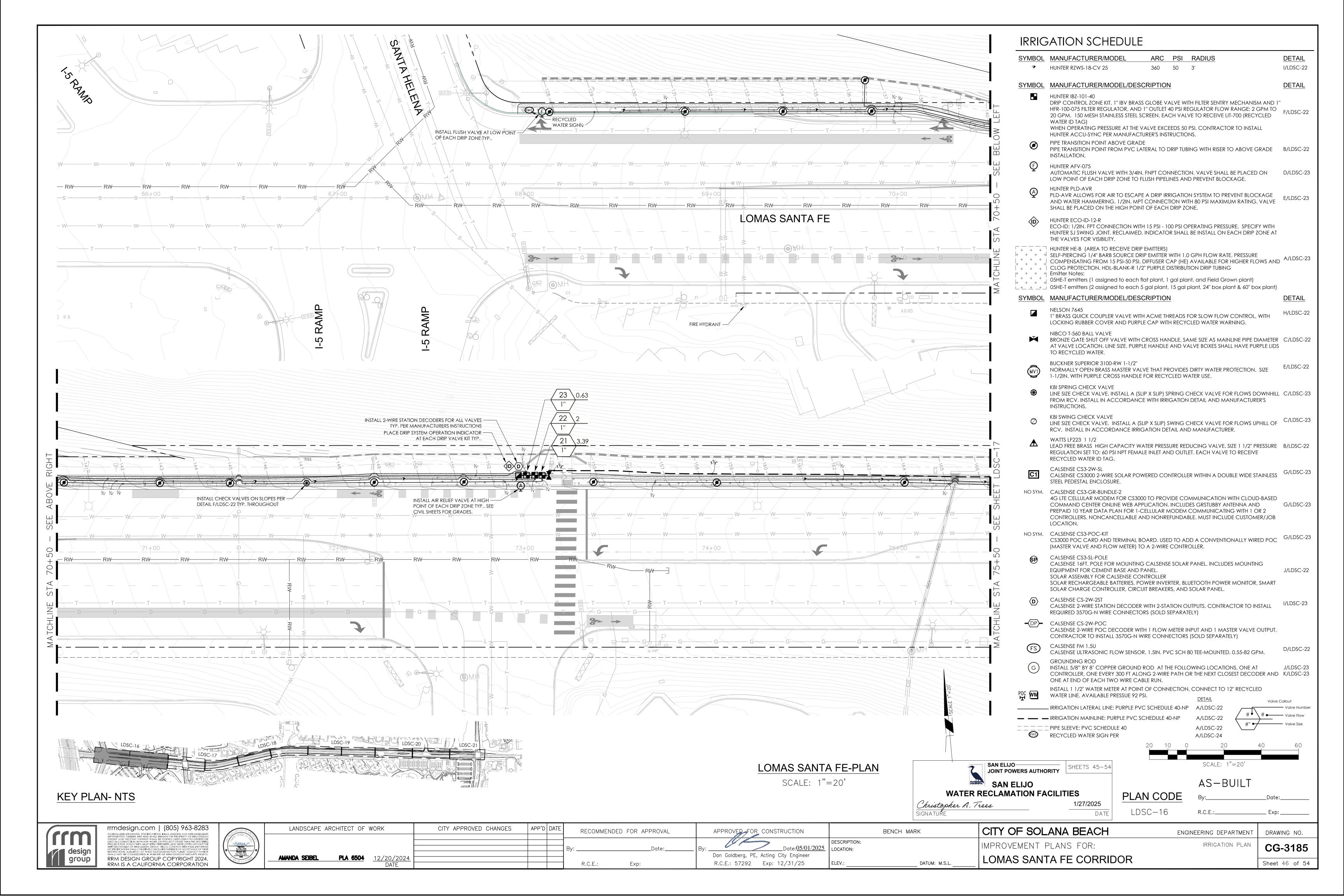
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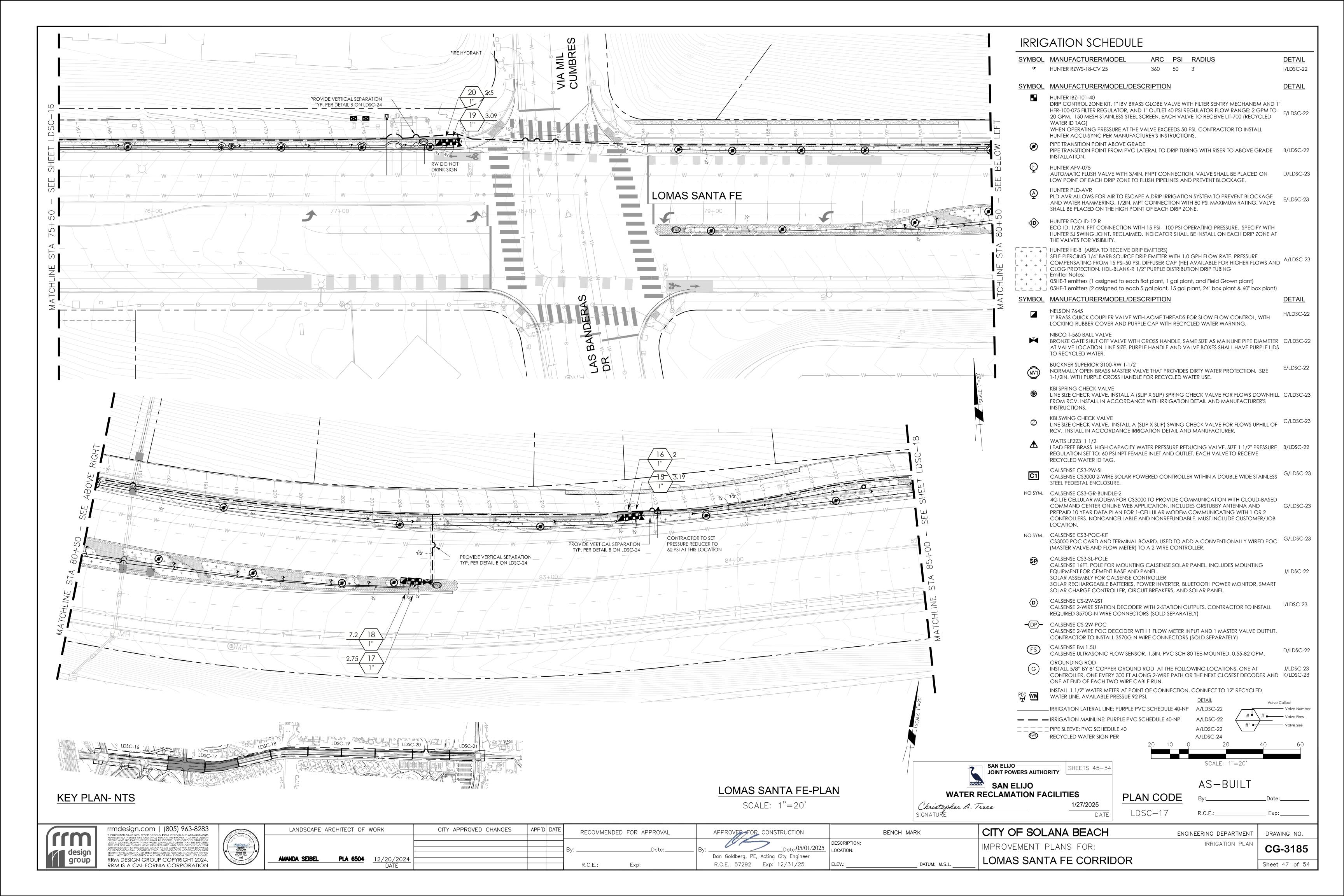
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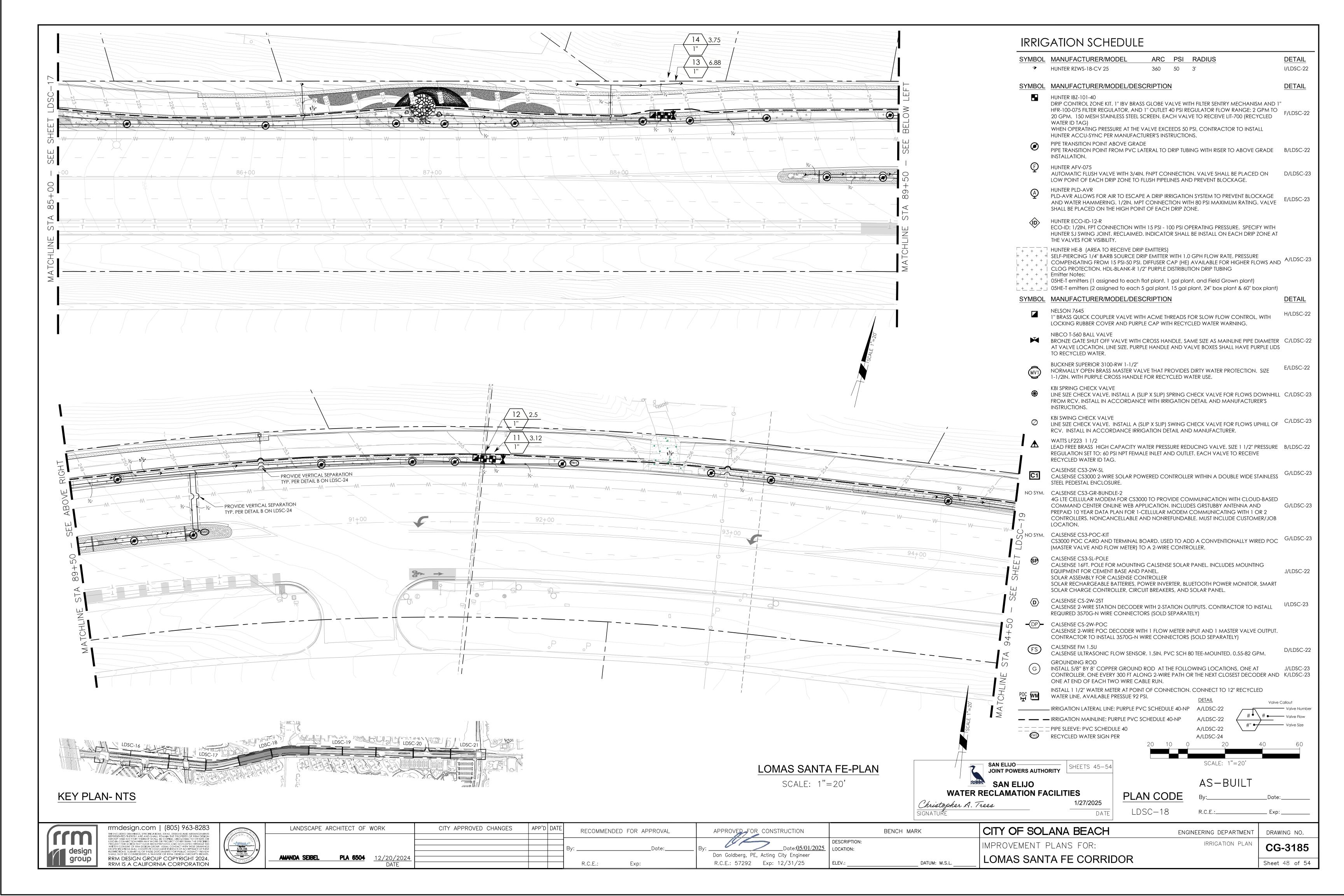
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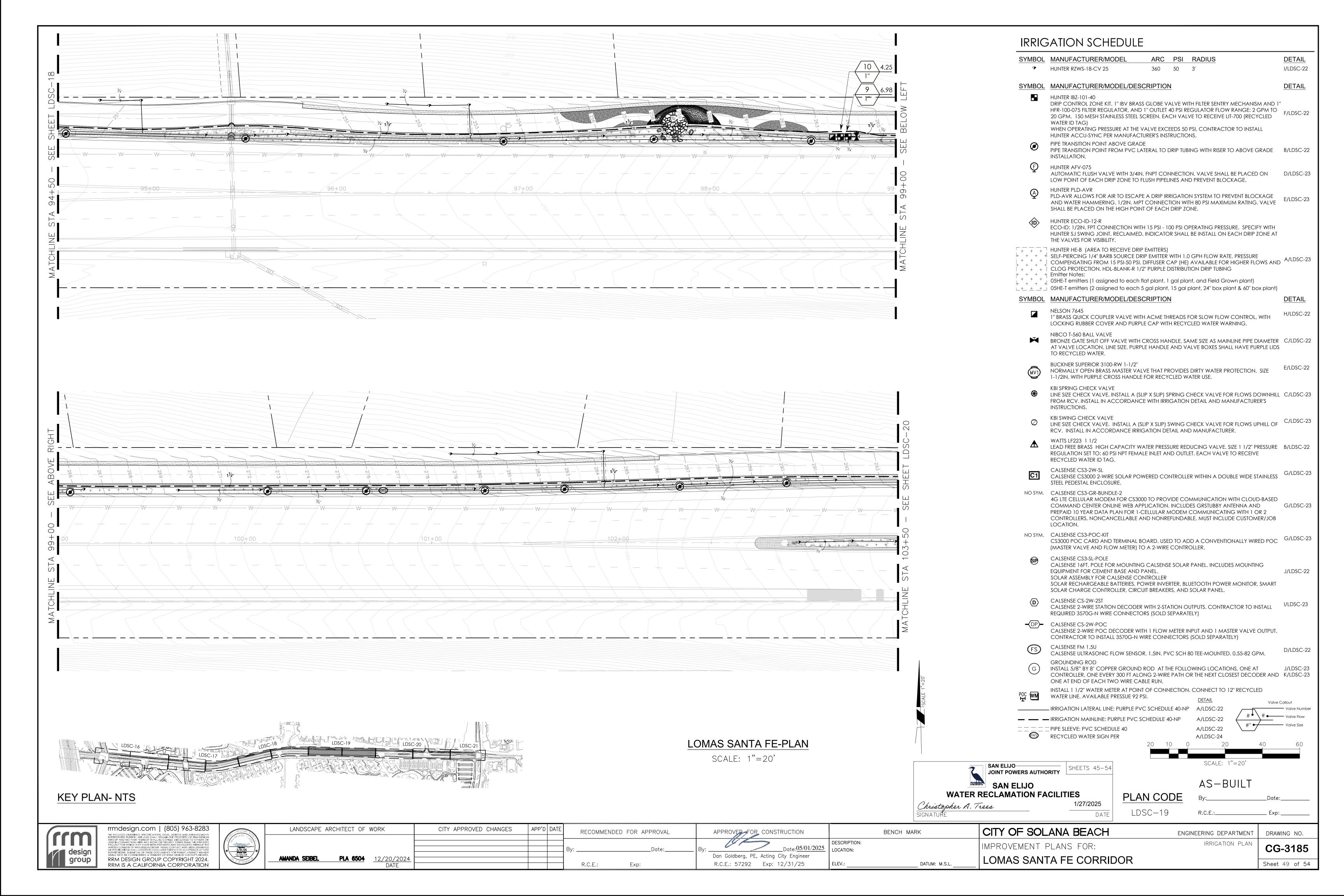
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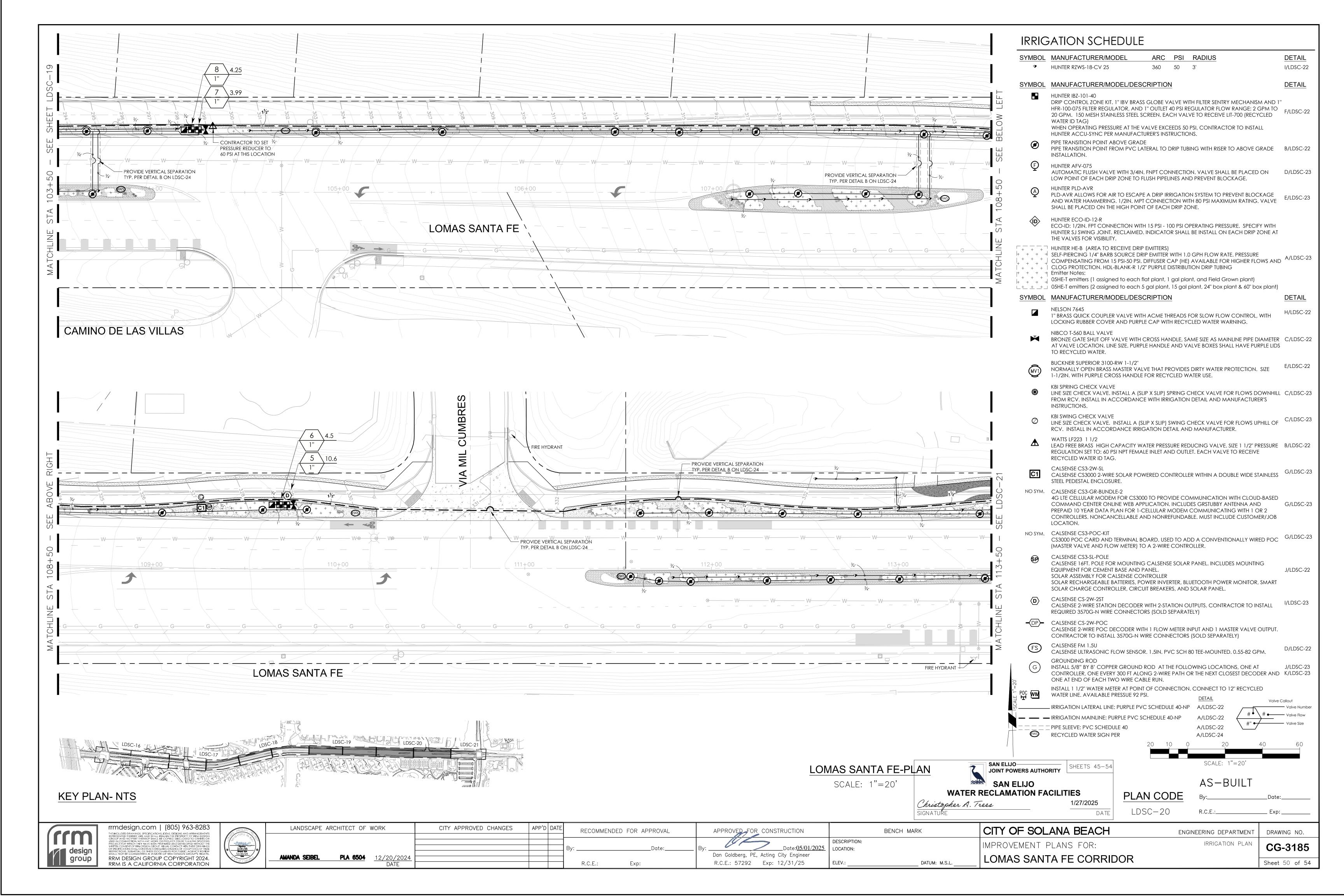
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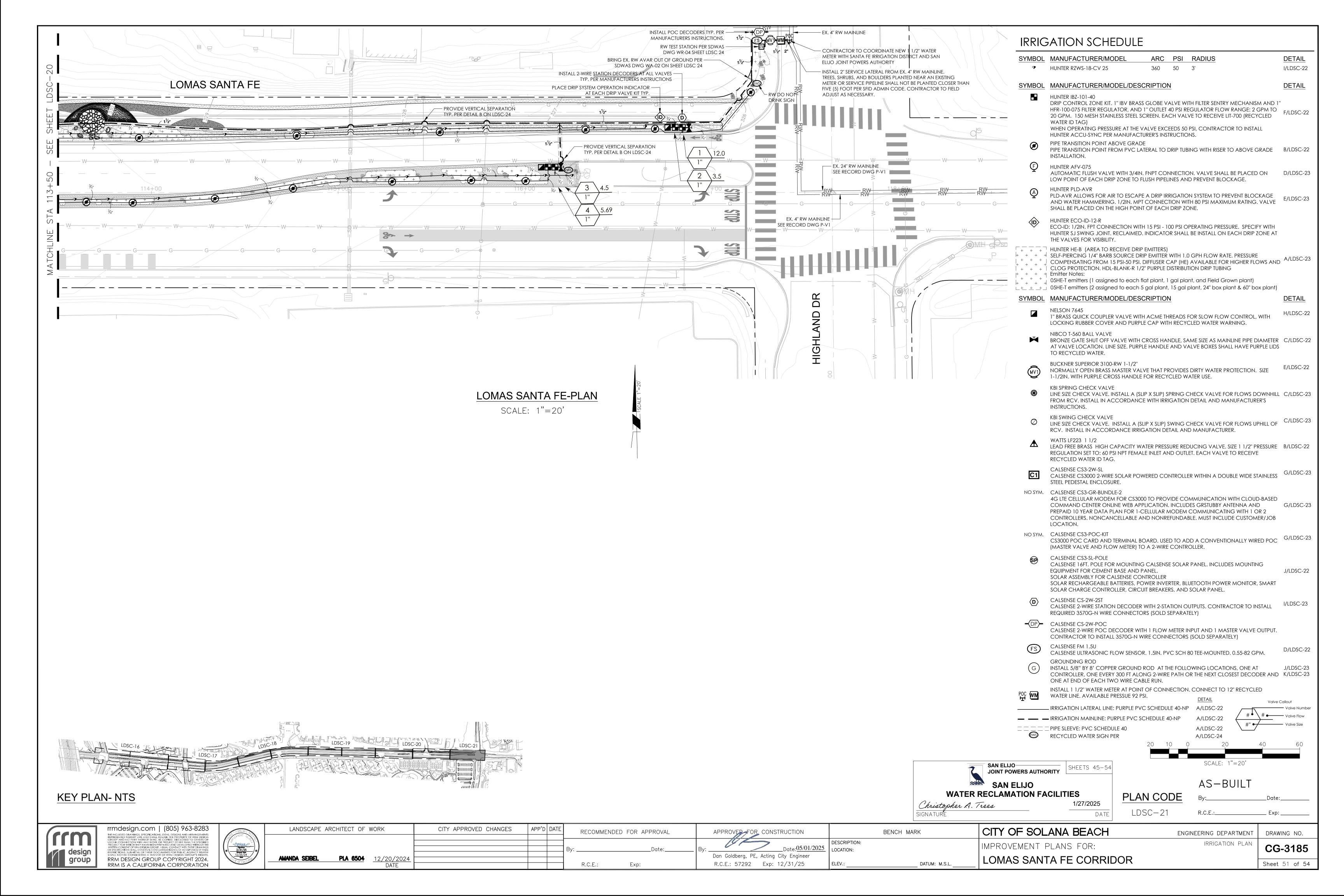


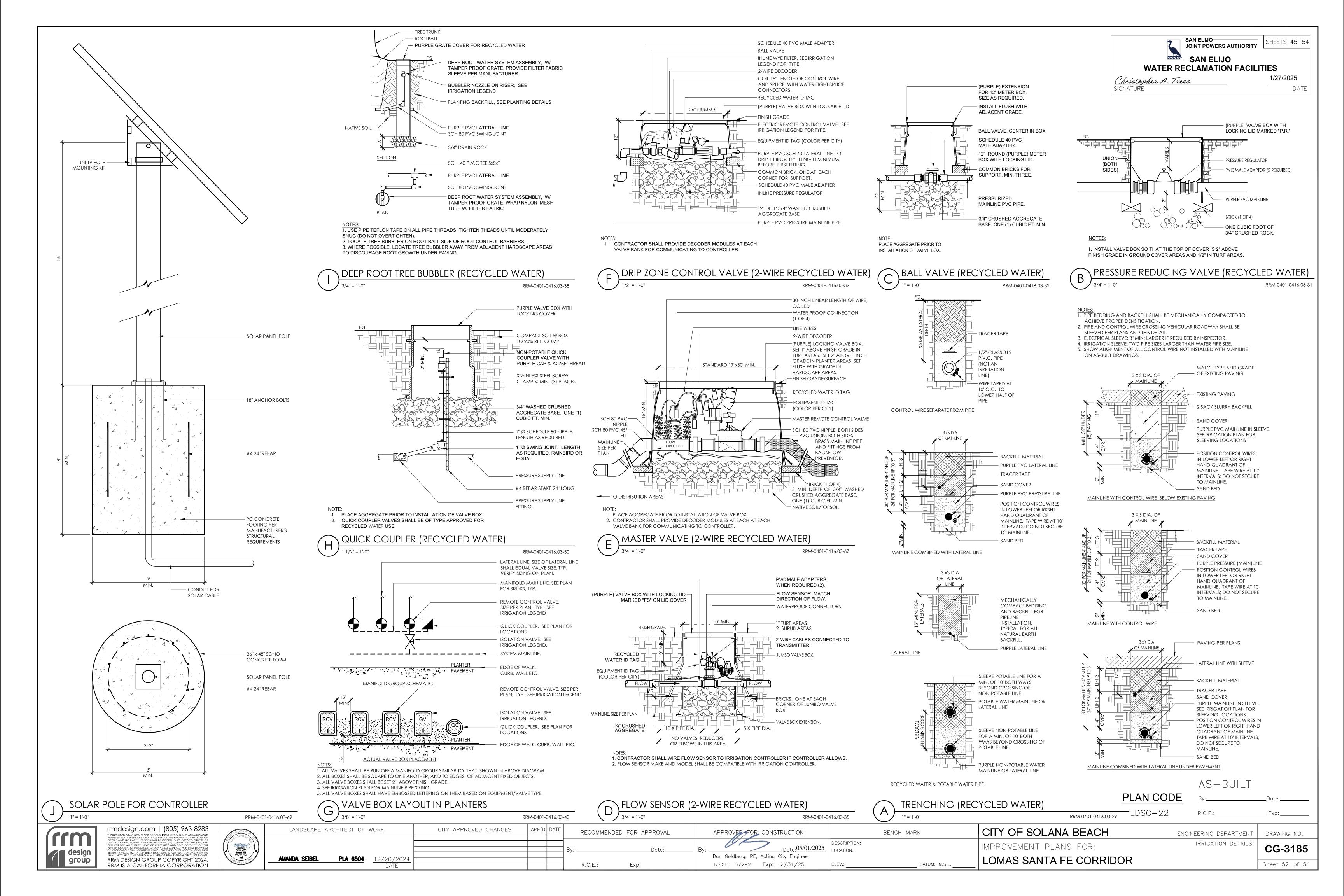


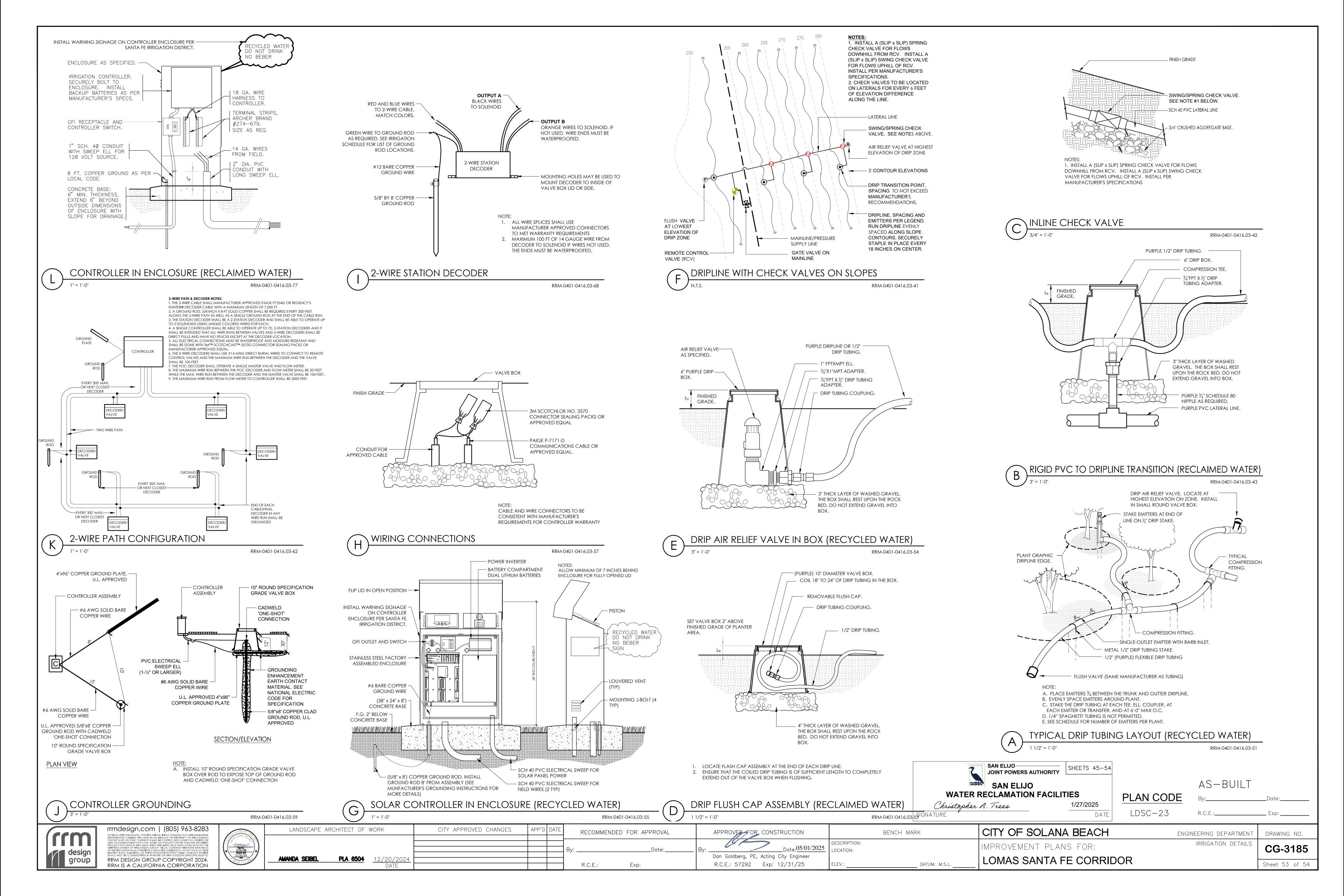


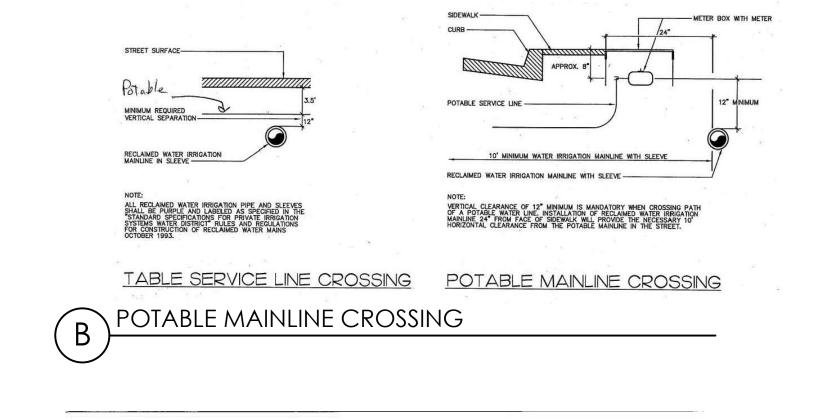


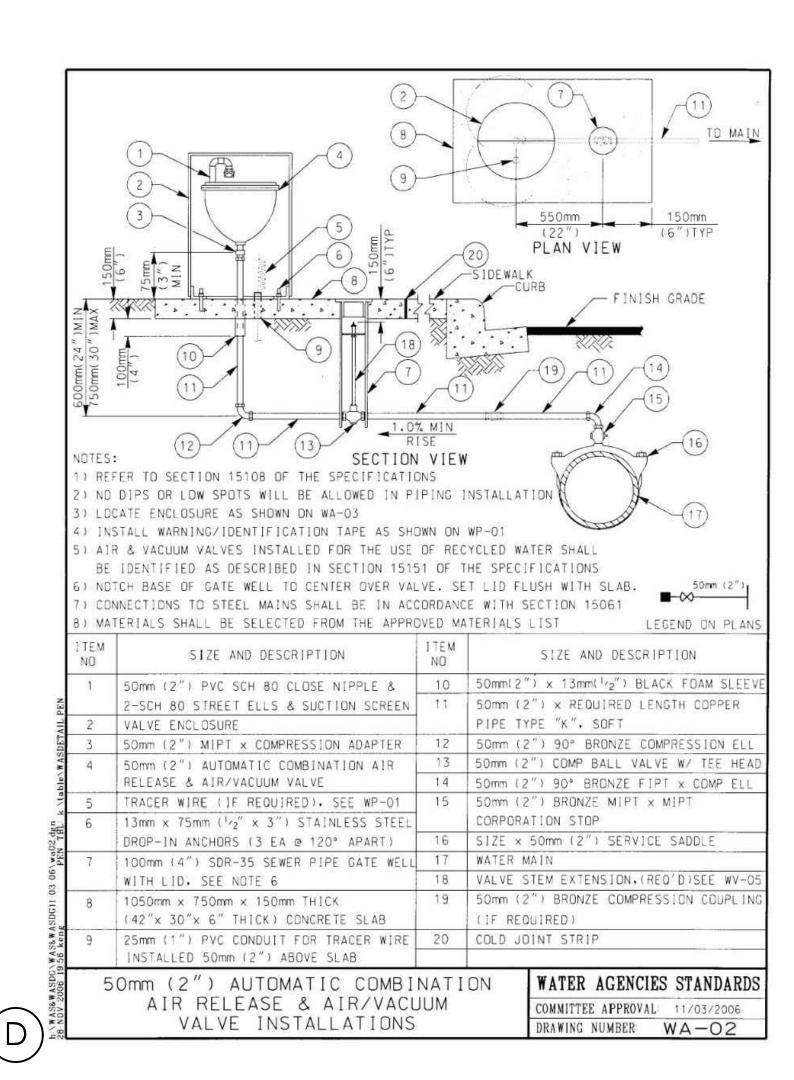


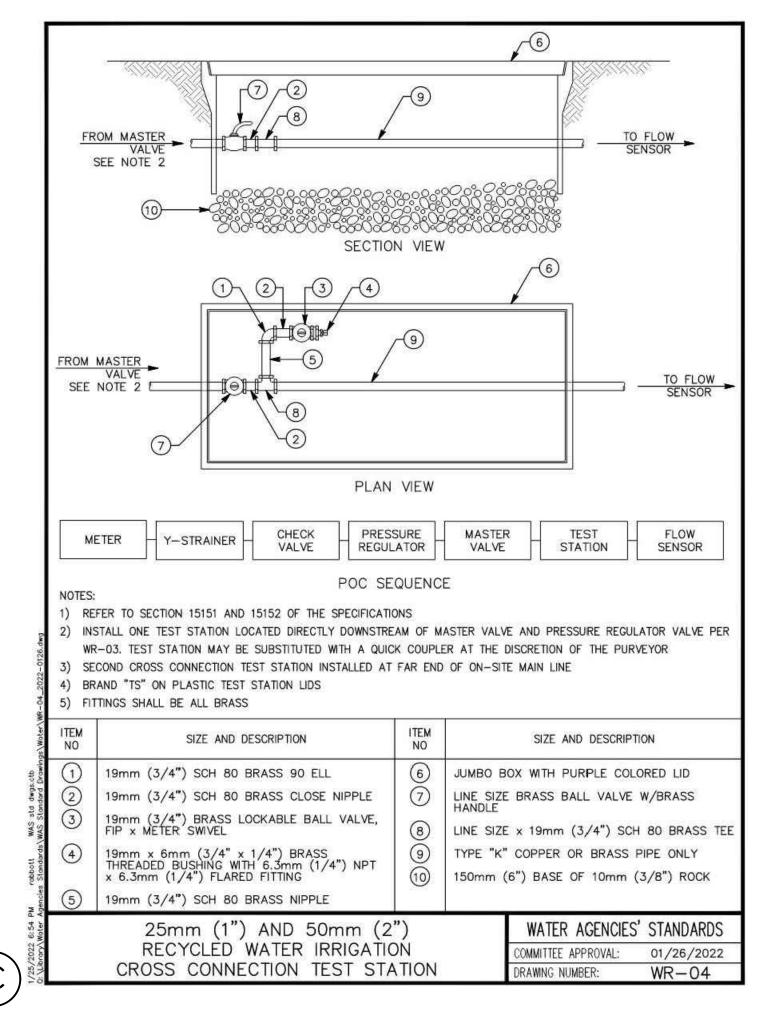


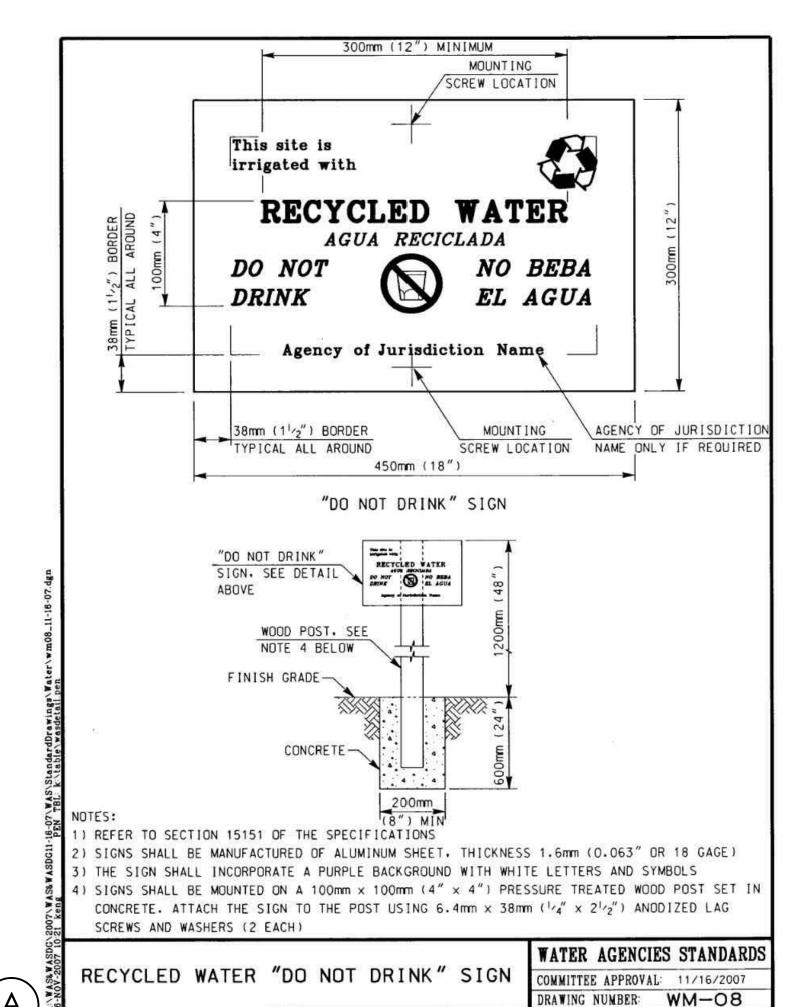


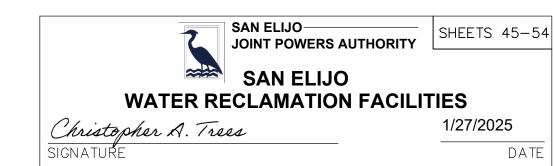














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						SIGNATUŔE
LANDSCAPE ARCHITECT OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
				By:Date:	By:Date: 05/01/2025	DESCRIPTION: LOCATION:
AMANDA SEIBEL PLA 6504 12/20/2024 DATE				R.C.E.: Exp:	Dan Goldberg, PE, Acting City Engineer R.C.E.: 57292 Exp: 12/31/25	ELEV.: DATUM: M.S.L
						<u> </u>

CITY OF SOLANA BEACH

IMPROVEMENT PLANS FOR:

LOMAS SANTA FE CORRIDOR

DRAWING NO.

S

CG-3185

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