

# LOMAS SANTA FE CORRIDOR IMPROVEMENTS

## STANDARD REQUIREMENTS

- 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.
- 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".
- 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.
- PARKING RESTRICTIONS, AS APPROVED BY CITY ENGINEER, SHALL REQUIRE A MINIMUM OF 48 HOURS NOTICE, EXCLUDING HOLIDAYS AND WEEKENDS.
- 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.
- ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON ALL MAJOR AND SECONDARY HIGHWAYS.
- 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.
- 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 OF WORK.
- 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.
- PERMANENT PAVEMENT REPAIRS SHALL BE MADE WITHIN 25 DAYS AFTER EXCAVATION WORK IS COMPLETED. INSPECTOR'S APPROVAL IS REQUIRED BEFORE PERMANENT REPAIRS ARE MADE.
- WHEN PERMITTEE TUNNELS UNDER EXISTING CURBS, GUTTERS AND SIDEWALKS, THE EXCAVATED TRENCH SHALL BE BACKFILLED WITH CEMENT GROUT AS PRESCRIBED IN THE STANDARD SPECIFICATIONS.
- WHEN COMPACTION TESTS ARE REQUIRED, ALL COSTS ARE TO BE BORNE BY THE PERMITTEE.
- 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.
- 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

- A PERMIT SHALL BE OBTAINED FROM THE CITY OF SOLANA BEACH ENGINEERING DEPARTMENT FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE STRUCTURAL SECTION SHALL BE APPROVED BY THE CITY OF SOLANA BEACH AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY DIG ALERT AT 811 PRIOR TO STARTING WORK AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
- NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- 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).
- 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.
- 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.
- 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.

## 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:

- THE OWNER SUBMITS A LETTER OF NOTIFICATION VERIFYING THE CHANGE OF THE RESPONSIBLE PROFESSIONAL; AND
- 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.
- 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 \_\_\_\_\_ AND \_\_\_\_\_ 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 \_\_\_\_\_

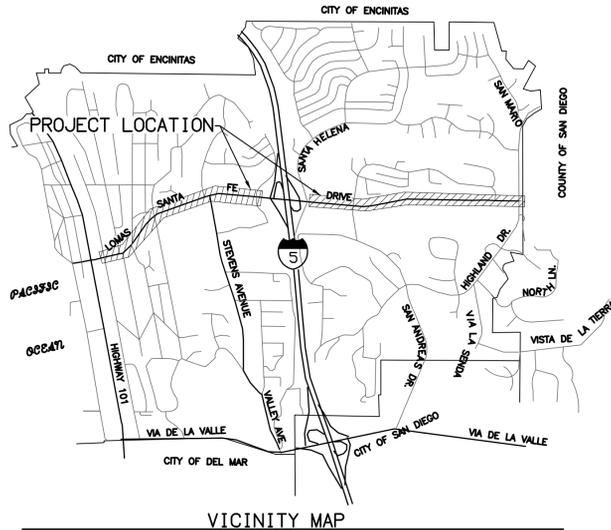
R.C.E. NO. \_\_\_\_\_ EXP. \_\_\_\_\_

## 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 FROM 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.

## LIST OF ABBREVIATIONS

AB	AGGREGATE BASE	MH	MANHOLE
AB	ABANDON (TRAFFIC SHEETS ONLY)	MIN	MINIMUM
AC	ASPHALT CONCRETE	MJ	MECHANICAL JOINT
ACP	ASBESTOS CEMENT PIPE	NO	NUMBER
ADV	ADVANCE	NTS	NOT TO SCALE
APS	ACCESSIBLE PEDESTRIAN SIGNAL	PB	PULL BOX
BC	BEGIN CURVE	PCC	POINT OF COMPOUND CURVE
BCR	BEGIN CURB RETURN	POC	POINT OF CONNECTION
BK	BIKE	PRC	POINT OF REVERSE CURVE
BLVD	BOULEVARD	PROP	PROPOSED
BP	BOTTOM OF PIPE	PT	POINT
C	CONDUIT	PVC	POLYVINYL CHLORIDE PIPE
CAB	CRUSHED AGGREGATE BASE	RPC	REINFORCED CONCRETE PIPE
CAV	SEWAGE COMBINATION AIR VALVE	RMC	RIGID METALLIC CONDUIT
C&G	CURB & GUTTER	RRFB	RECTANGULAR RAPID FLASHING
CL	CENTERLINE	BEACON	BEACON
CMP	CORRUGATED METAL PIPE	RT	RIGHT
CR	CROWN	RW	RECYCLED WATER
DI	DUCTILE IRON	R/W	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	SC	SPICE NEW TO EXISTING CONDUCTORS
DL	DETECTOR LOOP CABLE	SD	STORM DRAIN
DWG	DRAWING	SDMN	STORM DRAIN MANHOLE
EA	EACH	SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
EC	END CURVE		
ECR	END CURB RETURN	SF	SQUARE FEET
EVault	ELECTRIC VAULT	SFM	SEWER FORCEMAIN
EVP	EMERGENCY VEHICLE PREEMPTION	SM	SURVEY MONUMENT
EX	EXISTING	SMH	SEWER MANHOLE
F	FUEL	SNS	STREET NAMESIGN
FL	FLOW LINE	STA	STATION
FLG	FLANGE	STD	STANDARD
FO	FIBER OPTIC	SWK	SIDEWALK
FS	FINISH SURFACE	TC	TOP OF CURB
G	GAS	TP	TOP OF PIPE
GV	GAS VALVE	TELE	TELECOM
GB	GRADE BREAK	TRANS	TRANSFORMER
HOPE	HIGH DENSITY POLYETHYLENE	TS	TRAFFIC SIGNAL
HORIZ	HORIZONTAL	TYP	TYPICAL
HP	HIGH POINT / HIGH PRESSURED	VERT	VERTICAL
IRR	IRRIGATION	VWD	VALLECITOS WATER DISTRICT
IRV	IRRIGATION VALVE	W	WATER
IE	INVERT ELEVATION	WM	WATER METER
LF	LINEAR FEET	WV	WATER VALVE
LK	LEFT		



## SITE ADDRESS

WEST OF HWY 1-5: FROM CEDROS AVE TO SOLANA HILLS DR.  
EAST OF HWY 1-5: 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.  
CONTROL STATION #130: GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR (0.99996480)

STATION	NORTHING (ft.) GRID	EASTING (ft.) GRID
130	1643648.598	6256070.045

## BENCHMARK

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-48:2.5" 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

I, \_\_\_\_\_, 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.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

R.C.E. NO. \_\_\_\_\_ EXP. \_\_\_\_\_

FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

## WORK TO BE DONE

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

## STANDARD SPECIFICATIONS

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

## STANDARD DRAWINGS

- SAN DIEGO REGIONAL STANDARD DRAWINGS
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS

## LEGEND

IMPROVEMENTS	STD. DWGS.	SYMBOL
6" CURB & GUTTER	SDRSD G-2	
6" MEDIAN CURB	SDRSD G-6	
EXISTING MEDIAN CURB		
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	
STORM DRAIN INLET - TYPE B	SDRSD D-2	
RELOCATED FIRE HYDRANT	WAS WF-01	
PROPOSED CONTOUR		
EXISTING CONTOUR		
LIMITS OF WORK/DAYLIGHT LINE		
EXISTING PROPERTY LINE		
STREET CENTERLINE		
EXISTING RIGHT OF WAY LINE		
EXISTING CONCRETE		
EXISTING EDGE OF PAVEMENT		
EXISTING WALL		
EXISTING FENCE		
EXISTING VALVE		
EXISTING FIRE HYDRANT		
EXISTING WATER METER		
EXISTING MANHOLE		
EXISTING SIGN		
EXISTING TREE TO REMAIN		
EXISTING TREE TO BE REMOVED		
EXISTING LIGHT		
PROPOSED STREET LIGHT POLE		
EXISTING M-10 SURVEY MONUMENT		
<b>SHEET INDEX</b>		
SHEET	PLAN CODE	DESCRIPTION
1	T-1	TITLE SHEET
2	GN-1	GENERAL NOTES
3	KM-1	KEY MAP
4-5	TYP-1 TO TYP-2	TYPICAL CROSS SECTIONS
6-26	IMP-1 TO IMP-21	IMPROVEMENT PLANS & PROFILES
27-37	CD-1 TO CD-11	CONSTRUCTION DETAILS
38-41	RWALL-1 TO RWALL-4	RETAINING WALL PLANS & PROFILES
42-45	SD-1 TO SD-4	DRAINAGE PLANS & PROFILES, AND DETAILS
46-50	PD-1 TO PD-5	PAVEMENT DELINEATION PLANS
51-56	TS-1 TO TS-6	TRAFFIC SIGNAL PLANS
57-73	LDSC-1 TO LDSC-17	LANDSCAPE AND IRRIGATION PLANS
<b>AS-BUILT</b>		
<b>PLAN CODE</b>		
T-1		
By: _____ Date: _____		
R.C.E.: _____ Exp: _____		

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: LOCATION: ELEV.: DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
TITLE SHEET  
DRAWING NO. CG-3185  
Sheet 1 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

**SPECIAL NOTES**

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.

- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, RELOCATING, MAINTAINING, AND OR REMOVAL OF EXITING UTILITIES WHEN IN CONFLICT WITH PROPOSED IMPROVEMENTS.
- 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.
- WHERE TRENCHES ARE ADJACENT TO FUTURE BUILDING SITES, SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOIL ENGINEER WHICH 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.
- CONTRACTOR SHALL ADJUST EXISTING AND PROPOSED WATER VALVE COVERS, CLEANOUT COVERS, AND SEWER MANHOLE COVERS, ETC. TO GRADE WHERE NECESSARY.
- 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.
- CONTRACTOR TO REMOVE/REPLACE/RELOCATE ANY LANDSCAPING OR HARDSCAPING WHICH CONFLICTS IN ANY WAY WITH THE INSTALLATION OR PROPER FUNCTIONING OF THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL REPLACE ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS EQUAL TO OR SUPERIOR.
- PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL COORDINATE PLANS WITH ALL OTHER DISCIPLINES AND NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES.
- 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.
- 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.
- DURING ACTIVE CONSTRUCTION AREAS SHALL BE WATERED TO REDUCE FUGITIVE DUST.
- 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.
- 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.
- 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.
- 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.
- ALL CONCRETE REMOVALS SHALL BE TO THE NEAREST WEAKENED PLANE JOINT, UNLESS OTHERWISE DELINEATED ON PLAN.
- CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF MONUMENTS OF ANY SURVEY MONUMENTS DAMAGED DURING CONSTRUCTION MONUMENTS SHALL BE REPLACE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PROTECT ALL EXISTING SIGNS IN PLACE AND REPLACE ANY SIGNS DAMAGED DURING CONSTRUCTION.
- PROVIDE 36 INCHES MINIMUM COVER (FINISH GRADE TO TOP OF PIPE) OVER FIRE SERVICE. UNLESS OTHERWISE NOTED ON PLANS.

**SPECIAL NOTES (CONT.)**

- 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.
- 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.
- 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.
- CONTOURS SHALL BE USED AS GRADE BREAKS.

**STRIPING AND SIGNING GENERAL NOTES**

- THE CONTRACTOR SHALL STRIPE AND REPLACE ALL EXISTING STRIPING AND PAVEMENT MARKERS AS SHOWN ON THE PLANS.
- NEW STRIPING SHALL BE APPLIED IN 2 COATS. EXISTING STRIPING TO REMAIN MAY BE PAINTED OVER WITH ONE COAT.
- THE CONTRACTOR SHALL REMOVE BY MECHANICAL MEANS ALL CONFLICTING STRIPING, MARKERS AND PAVEMENT LEGENDS WITHIN THE AREA OF THE NEW STRIPING.
- ALL DEBRIS TO BE REMOVED AT THE END OF EACH WORK DAY.
- 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 APPROVAL.
- 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).
- THINNING OF PAINT WILL NOT BE ALLOWED.
- THERMOPLASTIC SHALL BE USED FOR PAVEMENT LEGENDS AND CROSSWALKS.
- INSTALL REFLECTIVE PAVEMENT MARKERS WHERE MISSING IN EXISTING PAVING.
- ARROWS PER CALTRANS TYPE 1 (10'), TYPE I & TYPE VII.
- SIGNING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD, 2012 EDITION), CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND THESE PLANS.
- 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.
- SIGN STRUCTURES AND ROADSIDE SIGNS SHALL BE AS SPECIFIED IN SECTION 56 OF THE STATE STANDARD SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.
- STREET NAME SIGNS SHALL BE PER CA MUTCD SPECIFICATIONS.
- ALL SIGNS SHALL BE REFLECTIVE PER CA MUTCD SPECIFICATIONS.
- ALL REGULATORY AND WARNING SIGNS SHALL BE CONSTRUCTED TO THE STANDARD SIZE AND SPECIFICATIONS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.
- 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.
- SIGNS IN THE MEDIUM 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.
- 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.
- 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.
- 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**

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.

**STORM DRAIN MARKERS**

- 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.
- 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.
- 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 OR UNSOUND LAYERS, PAINT AND OTHER MATERIAL WHICH WOULD ADVERSELY AFFECT THE BOND OF THE ADHESIVE.

**PAVING NOTES**

- 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.
- 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.

**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 - SAN DIEGUITO WATER DISTRICT	1-800-227-2600
D. TELEPHONE - SBC BELL	(760) 489-3411
E. CABLE TV - COX COMMUNICATIONS	(760)806-9809 X-2233
F. AT&T TELEPHONE COMPANY	(858)-886-2863

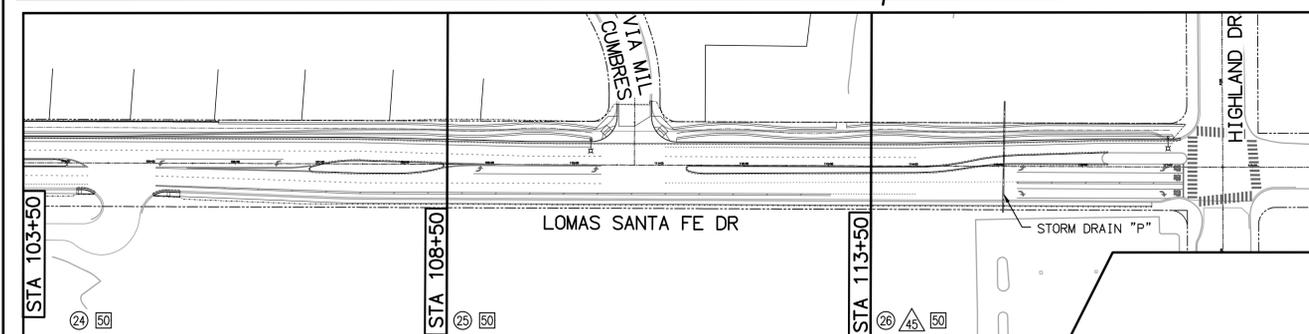
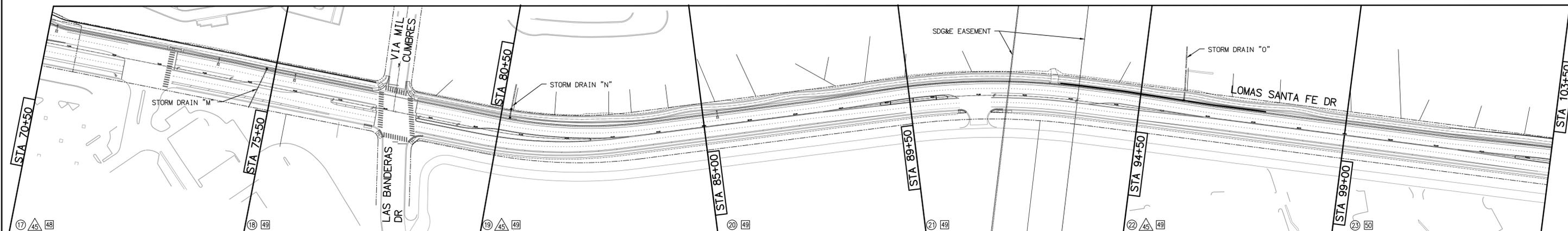
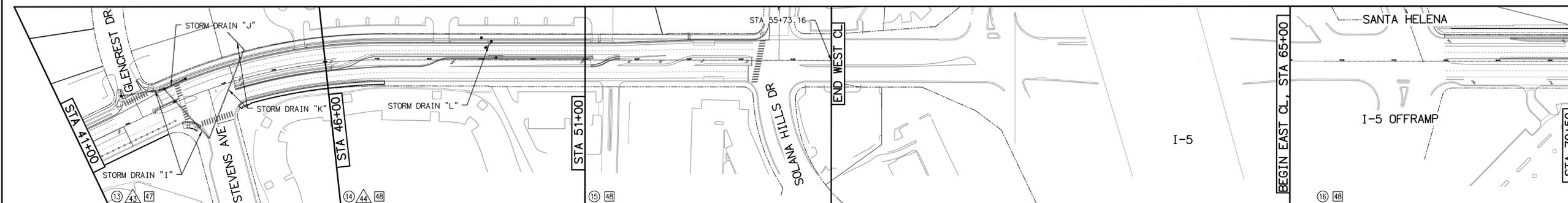
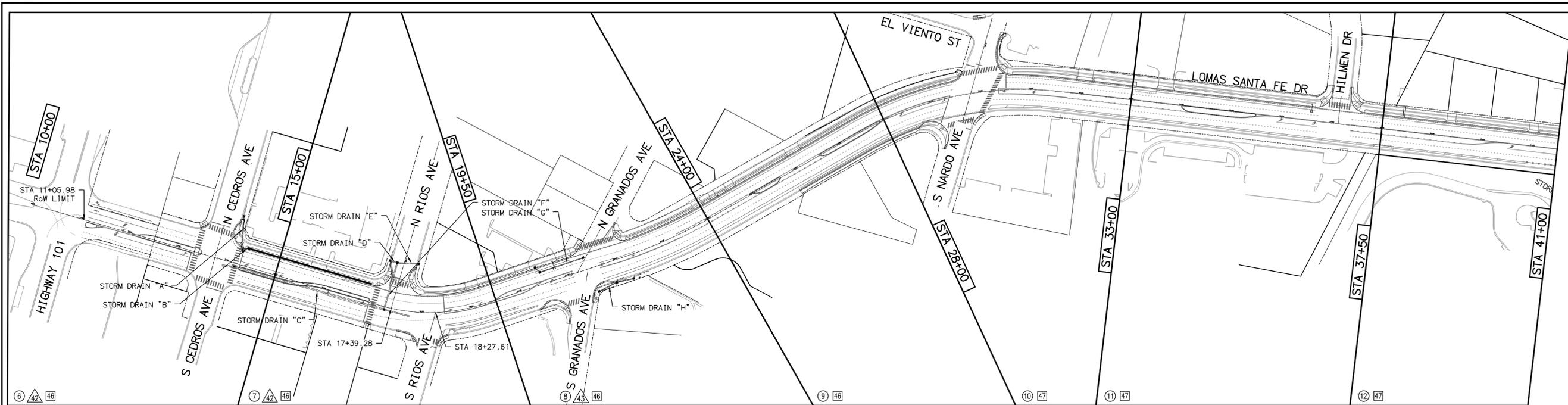
**TRAFFIC SIGNAL GENERAL NOTES**

- 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.
- 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 OR 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.
- 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.
- 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.
- ALL ABBREVIATIONS AND SYMBOLS USED ARE SHOWN ON CALTRANS STANDARD PLAN AS DEFINED ON PLAN.
- ALL LOCATIONS OF DETECTOR LOOP, SIGNAL POLE AND CABINET REQUIRE ENGINEER'S APPROVAL PRIOR TO SAW CUTTING OR EXCAVATION.
- 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.
- UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT REQUIRED FOR THE INTENDED OPERATION.
- IT IS REQUIRED TO MAINTAIN SIGNAL OPERATION INCLUDING SIGNAL INTERCONNECT DURING MODIFICATION OF EXISTING TRAFFIC SIGNAL SYSTEM.
- 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.
- 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.

**PLAN CODE** AS-BUILT  
 GN-1 R.C.E.: \_\_\_\_\_ Date: \_\_\_\_\_  
 Exp: \_\_\_\_\_

	5050 Avenida Encinas Suite 260 Carlsbad, CA 92008 Phone: (760) 476-9193 MBAKERINTL.COM		ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT	DRAWING NO.
			JOSH C. STONE RCE 60755				By: _____ Date: _____	By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.	GENERAL NOTES

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- KEY MAP LEGEND**
- (X) IMPROVEMENT PLAN SHEET NUMBER
  - (A) STORM DRAIN PLAN SHEET NUMBER
  - (S) SIGNING AND STRIPING PLAN SHEET NUMBER



SCALE: 1"=100'

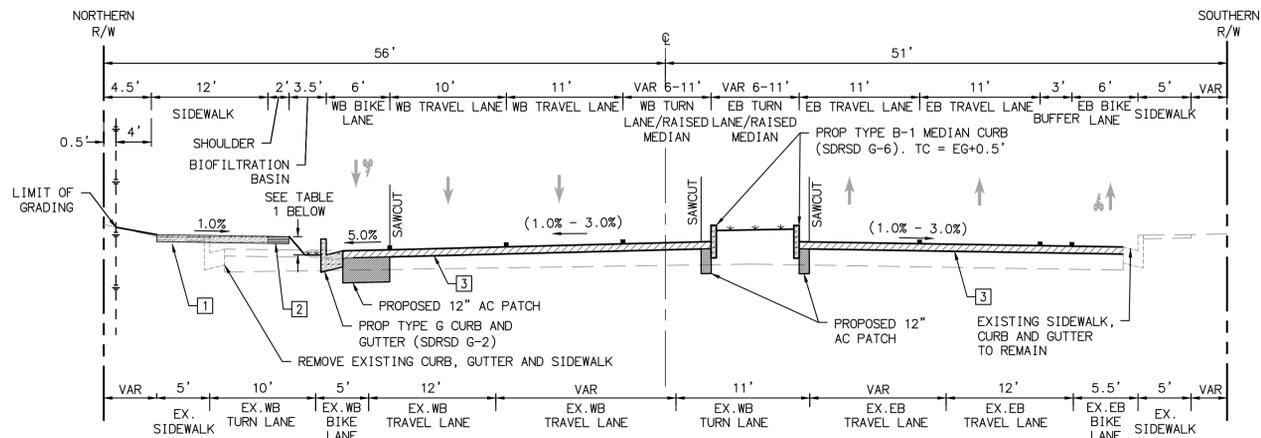
AS-BUILT

**PLAN CODE** By: \_\_\_\_\_ Date: \_\_\_\_\_  
 KM-1 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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 Carlsbad, CA 92008  
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 M.BAKERINTL.COM

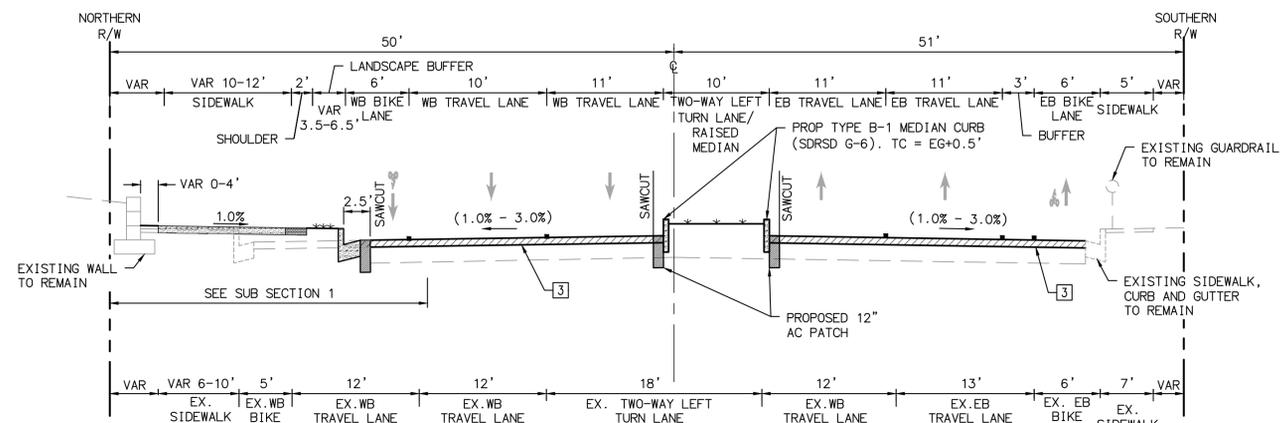


ENGINEER OF WORK JOSH C. STONE RCE 60755 DATE _____	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____ By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT KEY MAP	DRAWING NO. <b>CG-3185</b> Sheet 3 of 73
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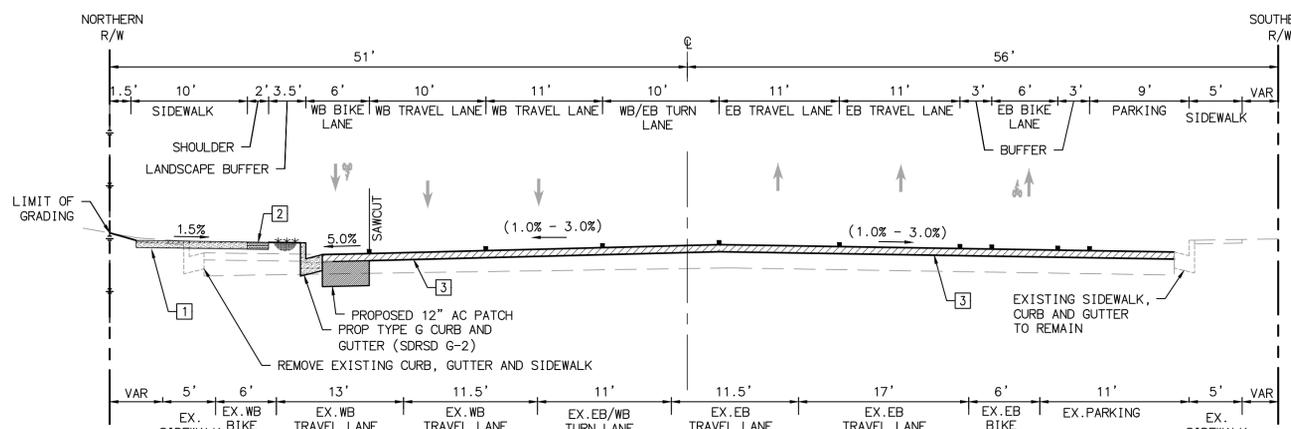


STATION	VERTICAL DISTANCE FROM FL TO EDGE OF DG SHOULDER
15+00.00 - START TRANSITION	0.55'
15+50.00 - END TRANSITION	0.22'
16+25.00 - START TRANSITION	0.22'
16+75.00 - END TRANSITION	0.55'

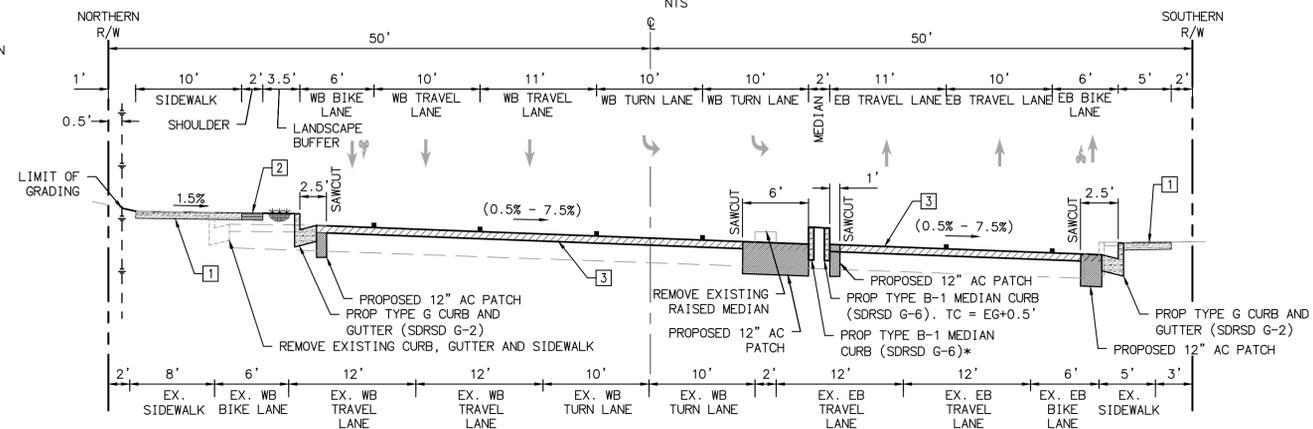
**LOMAS SANTA FE (CEDROS TO RIOS)**  
STA 13+75.91 TO 17+39.28  
NTS



**LOMAS SANTA FE (NARDO TO STEVENS)**  
STA 29+80.42 TO 44+36.40  
NTS

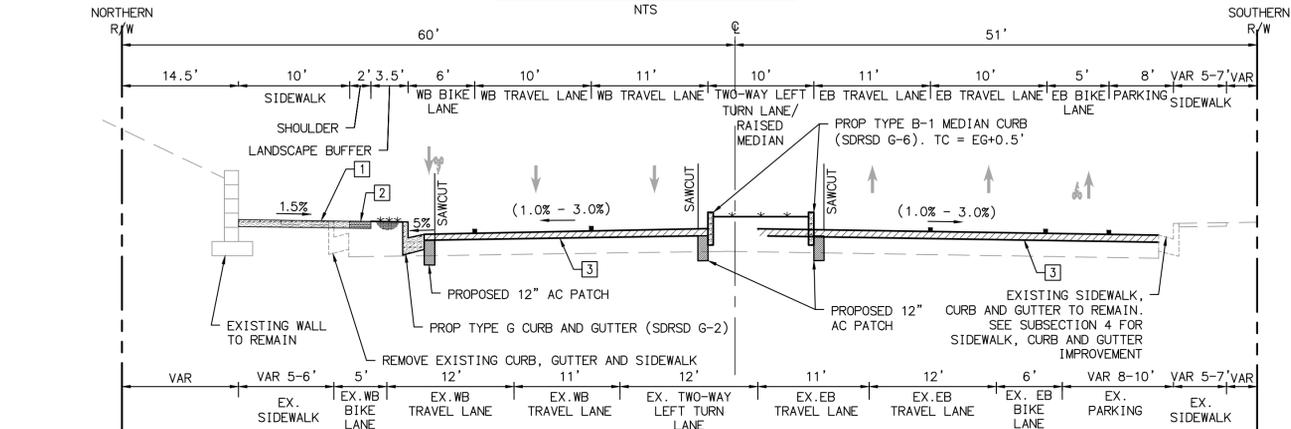


**LOMAS SANTA FE (RIOS TO GRANADOS)**  
STA 17+39.28 TO 21+42.84  
NTS

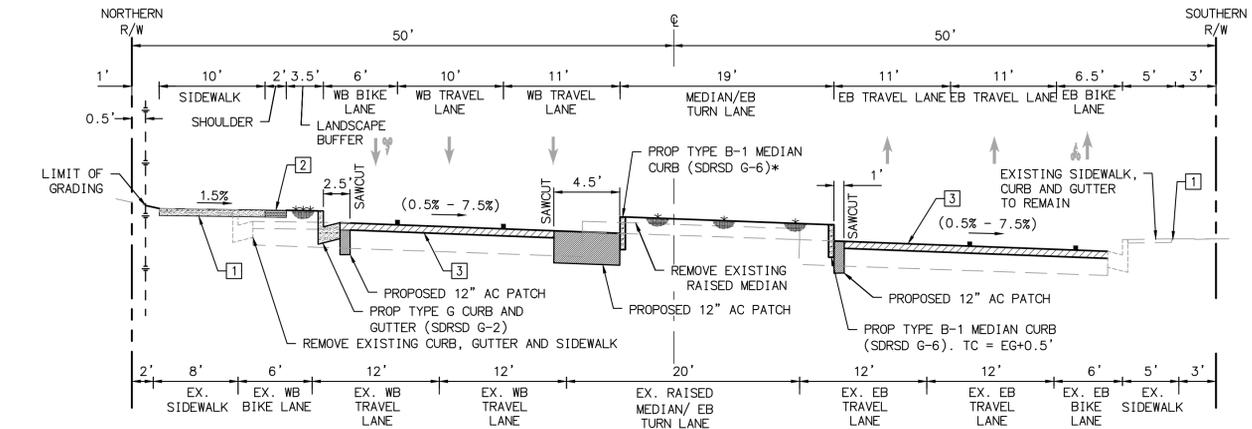


**LOMAS SANTA FE (STEVENS TO SOLANA HILLS)**  
STA 44+36.40 TO 46+25.00  
NTS

\*STA 44+20.63 TO 51+13.73, SEE PROFILE ON SHEETS IMP-8 TO IMP-10 FOR NORTH MEDIAN TC ELEVATIONS



**LOMAS SANTA FE (GRANADOS TO NARDO)**  
STA 21+42.84 TO 29+80.42  
NTS



**LOMAS SANTA FE (STEVENS TO SOLANA HILLS)**  
STA 46+25.00 TO 54+72.93  
NTS

\*STA 44+20.63 TO 51+13.73, SEE PROFILE ON SHEETS IMP-8 TO IMP-10 FOR NORTH MEDIAN TC ELEVATIONS

STRUCTURAL SECTIONS	
1	4" PORTLAND CEMENT CONCRETE 12" NATIVE SUBGRADE REMOVE AND RECOMPACT TO 95%
2	4" STABILIZED DECOMPOSED GRANITE
3	2" GRIND AND OVERLAY

AS-BUILT  
PLAN CODE TYP-1  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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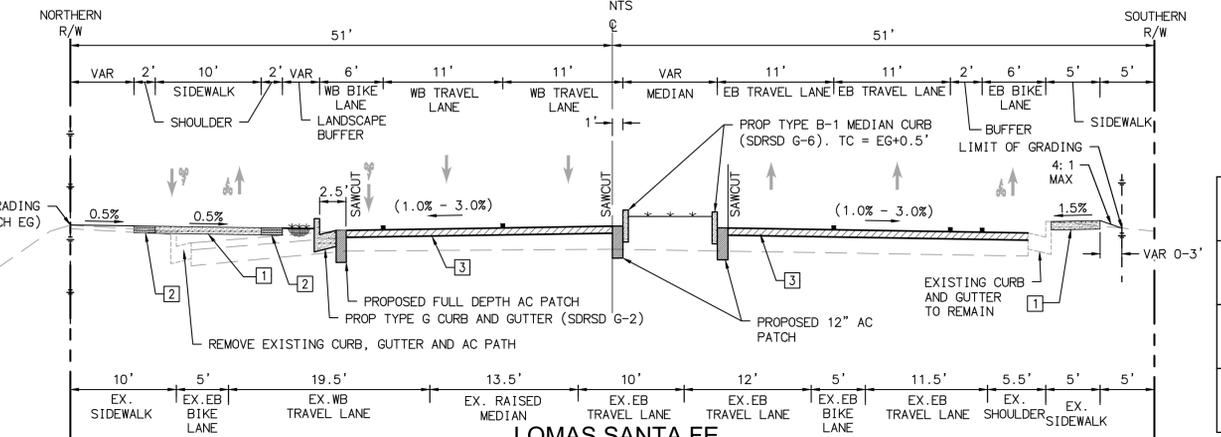
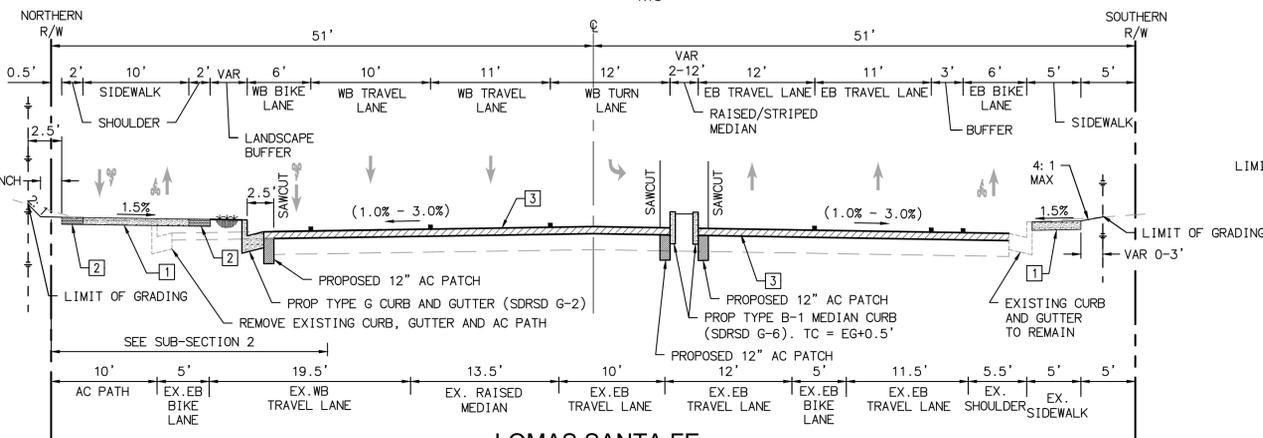
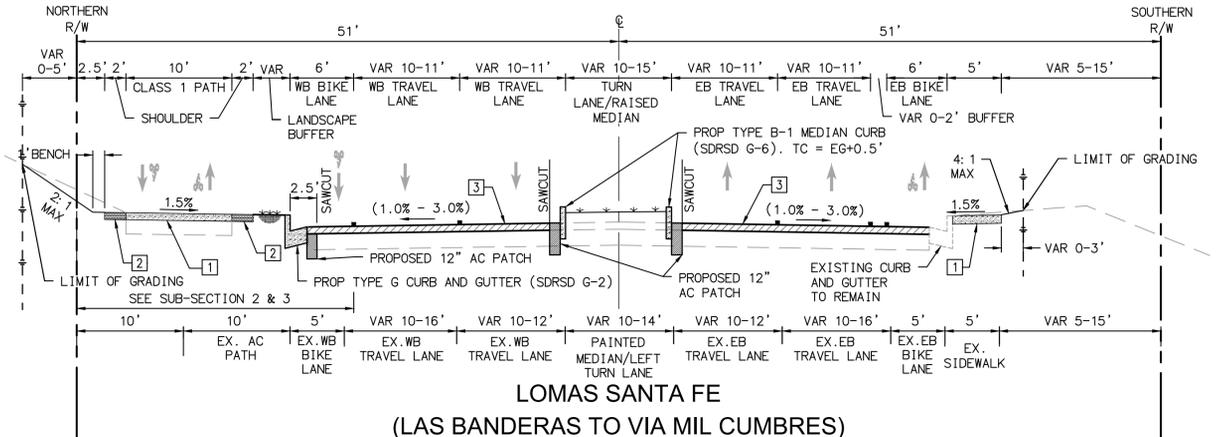
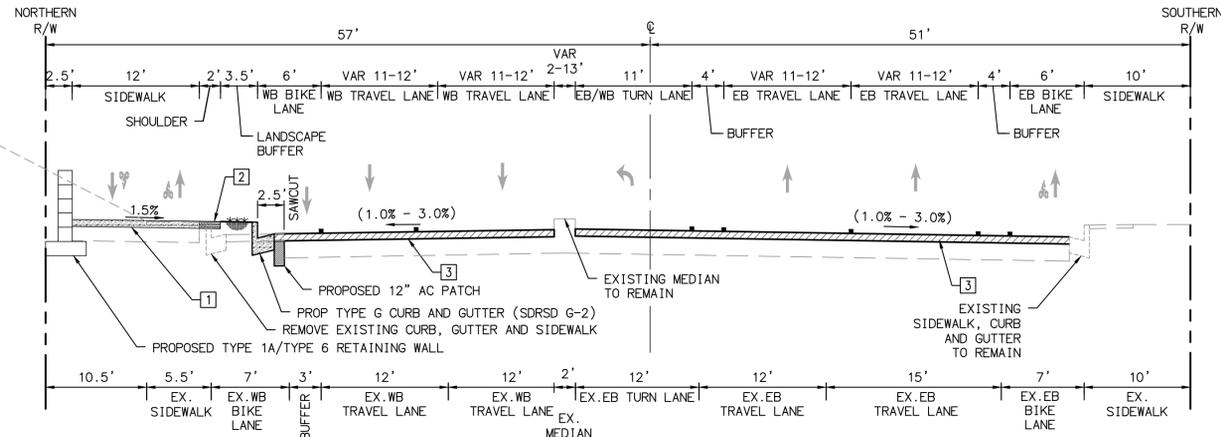
ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE
JOSH C. STONE RCE 60755			

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: _____ Date: _____	By: _____ Date: _____
By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22

BENCH MARK	DESCRIPTION
	LOCATION: _____ ELEV.: _____ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
TYPICAL CROSS SECTIONS  
DRAWING NO. **CG-3185**  
Sheet 4 of 73



STRUCTURAL SECTIONS	
1	4" PORTLAND CEMENT CONCRETE 12" NATIVE SUBGRADE REMOVE AND RECOMPACT TO 95%
2	4" STABILIZED DECOMPOSED GRANITE
3	2" GRIND AND OVERLAY

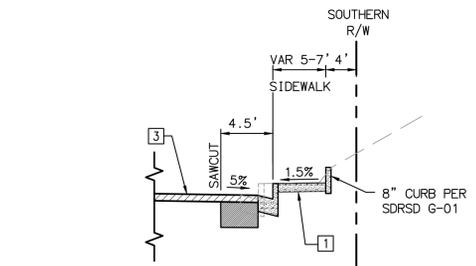
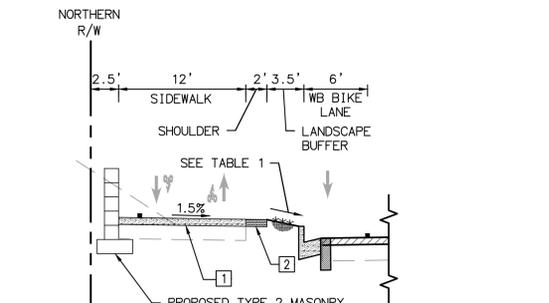
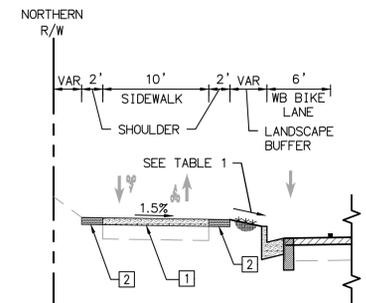
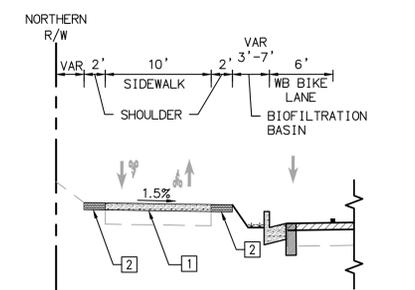
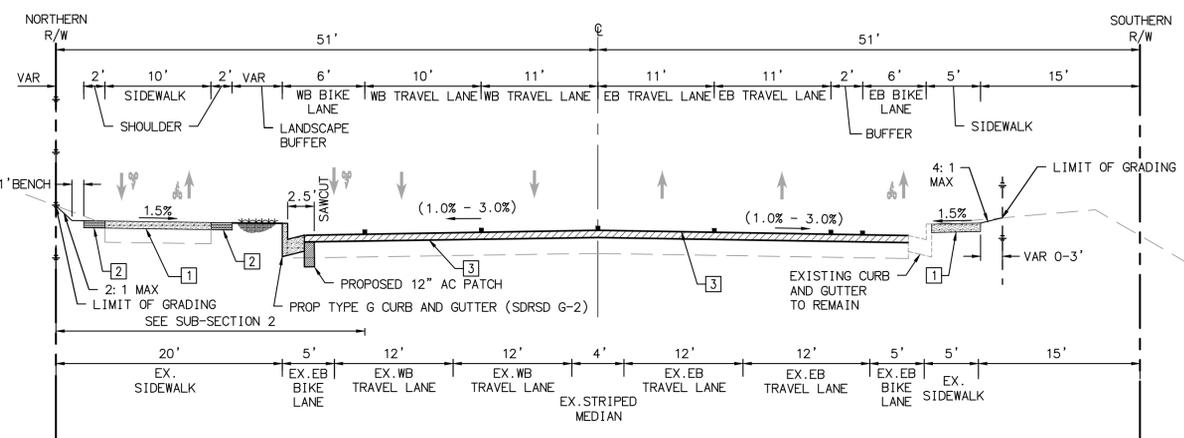


TABLE 1: LANDSCAPE SLOPE TABLE*	
STATION	SLOPE
84+00.00 TO 85+00.00	1.5-10.0% TRANSITION
85+00.00 TO 86+00.00	10.0-1.5% TRANSITION
97+50.00 TO 98+00.00	1.5-6.5% TRANSITION
98+00.00 TO 98+50.00	6.5-1.5% TRANSITION
101+00.00 TO 102+00.00	1.5-8.0% TRANSITION
102+00.00 TO 106+00.00	8.0%
106+00.00 TO 106+50.00	8.0-1.5% TRANSITION

- LIP OF GUTTER ELEVATION = SAWCUT ELEVATION - 3 FEET X 5%.
- TOP OF CURB ELEVATION = LIP OF GUTTER + 0.375 FEET

**PLAN CODE** AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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MBAKERINTL.COM



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES

APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK

DESCRIPTION: LOCATION: ELEV.: DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
TYPICAL CROSS SECTIONS

DRAWING NO. **CG-3185**  
Sheet 5 of 73



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 9 REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
  - 11 REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
  - 12 REMOVE EXISTING SIDEWALK
  - 21 GRIND EXISTING AC PAVEMENT 2"
- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 8 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 9 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 16 CONSTRUCT BIOFILTRATION BASIN PER DETAIL 1 AND 3 ON SHEET CD-11.
  - 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 19 CONSTRUCT TYPE A ISLAND PASSAGEWAY PER CALTRANS STD PLAN A88B.
  - 20 CONSTRUCT TYPE B-3 PIN-DOWN MEDIAN CURB PER SDRSD G-6. MEDIAN TOP OF CURB TO BE CONSTRUCTED 6" ABOVE PAVEMENT.
  - 23 CONSTRUCT MODIFIED 6" CURB AND GUTTER WITH CUTOFF WALL ADJACENT TO BIOFILTRATION BASIN PER DETAIL 2 ON SHEET CD-10
  - 28 CURB CUT PER DETAIL 2 ON SHEET CD-11
  - 29 INSTALL CLEANOUT PER DETAIL 1 AND 3 ON SHEET CD-11.

#### CURB DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	36°52'19"	20.00'	12.87'	6" CURB & GUTTER
2	36°49'45"	20.00'	12.86'	6" CURB & GUTTER
3	90°00'00"	30.00'	47.12'	6" CURB & GUTTER
4	N79°07'00"E	---	71.09'	6" CURB & GUTTER
5	94°40'14"	4.00'	6.61'	MEDIAN CURB
6	N10°53'08"W	---	1.84'	MEDIAN CURB
7	90°00'00"	4.00'	6.28'	MEDIAN CURB
8	N79°06'52"E	---	15.62'	MEDIAN CURB
9	156°57'19"	3.00'	8.22'	MEDIAN CURB
10	N18°22'27"	53.13'	17.04'	MEDIAN CURB
11	N79°07'00"E	---	82.33'	MEDIAN CURB
12	N10°53'00"W	---	10.00'	MEDIAN CURB
13	N79°07'00"E	---	108.79'	MEDIAN CURB
14	162°48'20"	3.00'	8.52'	MEDIAN CURB
15	17°11'40"	92.50'	27.76'	MEDIAN CURB
16	N10°53'00"W	---	10.00'	MEDIAN CURB
17	180°00'00"	5.00'	15.71'	MEDIAN CURB
18	N79°07'00"E	---	1.00'	MEDIAN CURB
19	N79°07'00"E	---	1.00'	MEDIAN CURB
20	N79°07'00"E	---	69.69'	MEDIAN CURB
21	180°00'00"	3.00'	9.42'	MEDIAN CURB
22	N79°07'00"E	---	69.69'	MEDIAN CURB

#### CENTERLINE DATA TABLE

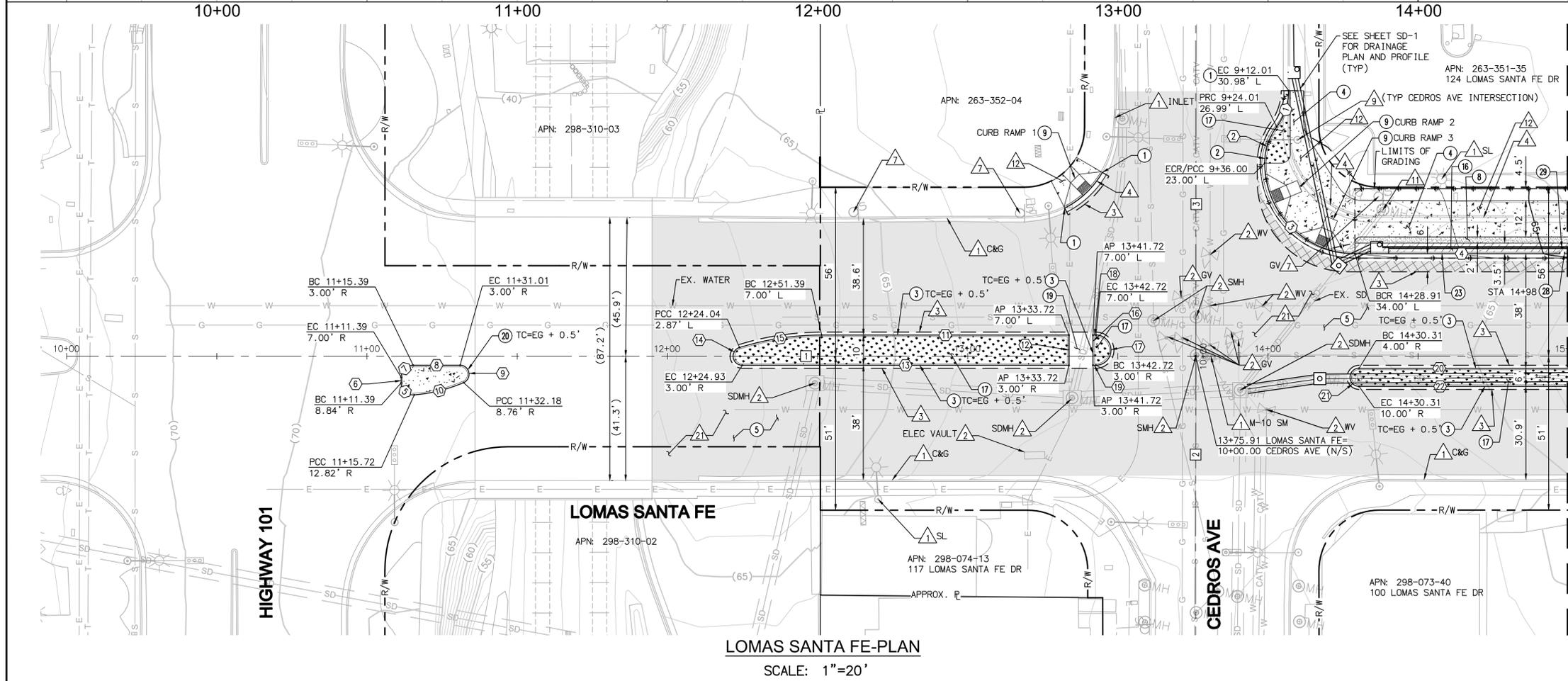
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N79°07'00"E	---	500.00'	LOMAS SANTA FE DR
2	N10°53'00"W	---	92.46'	CEDROS AVE (S)
3	N10°53'00"W	---	110.06'	CEDROS AVE (N)

#### PAVEMENT LEGEND

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER

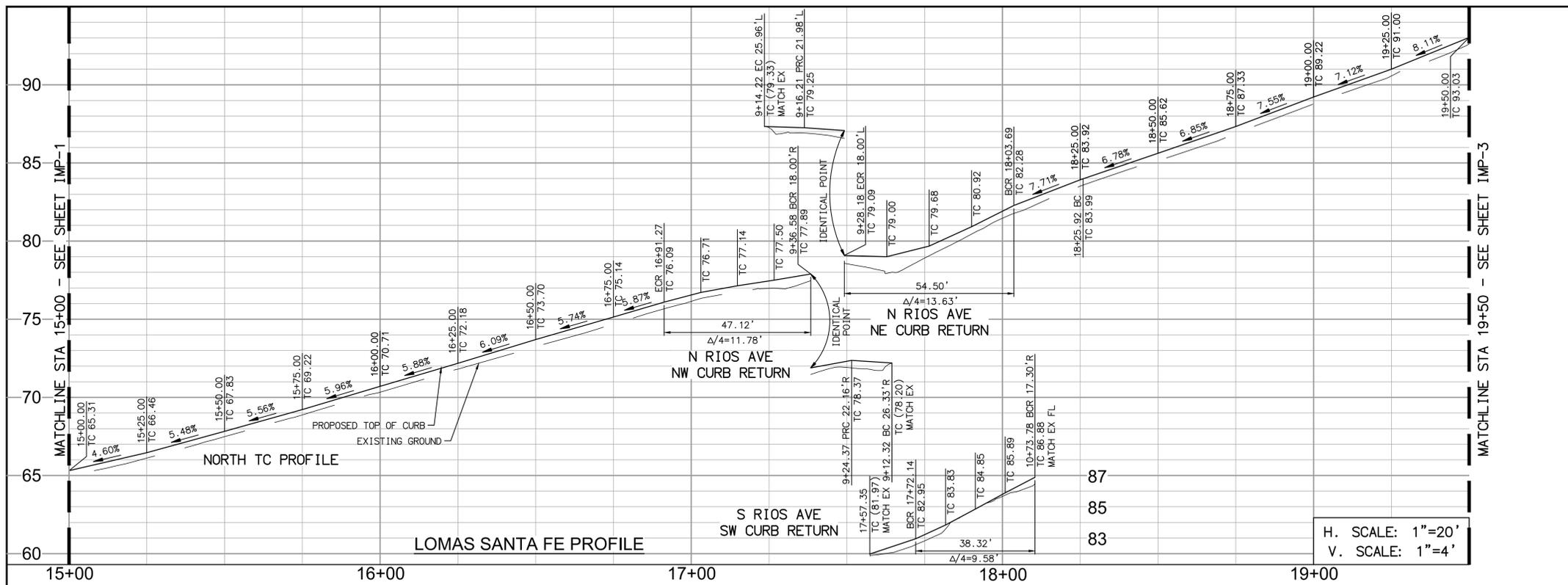


AS-BUILT  
 PLAN CODE IMP-1  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



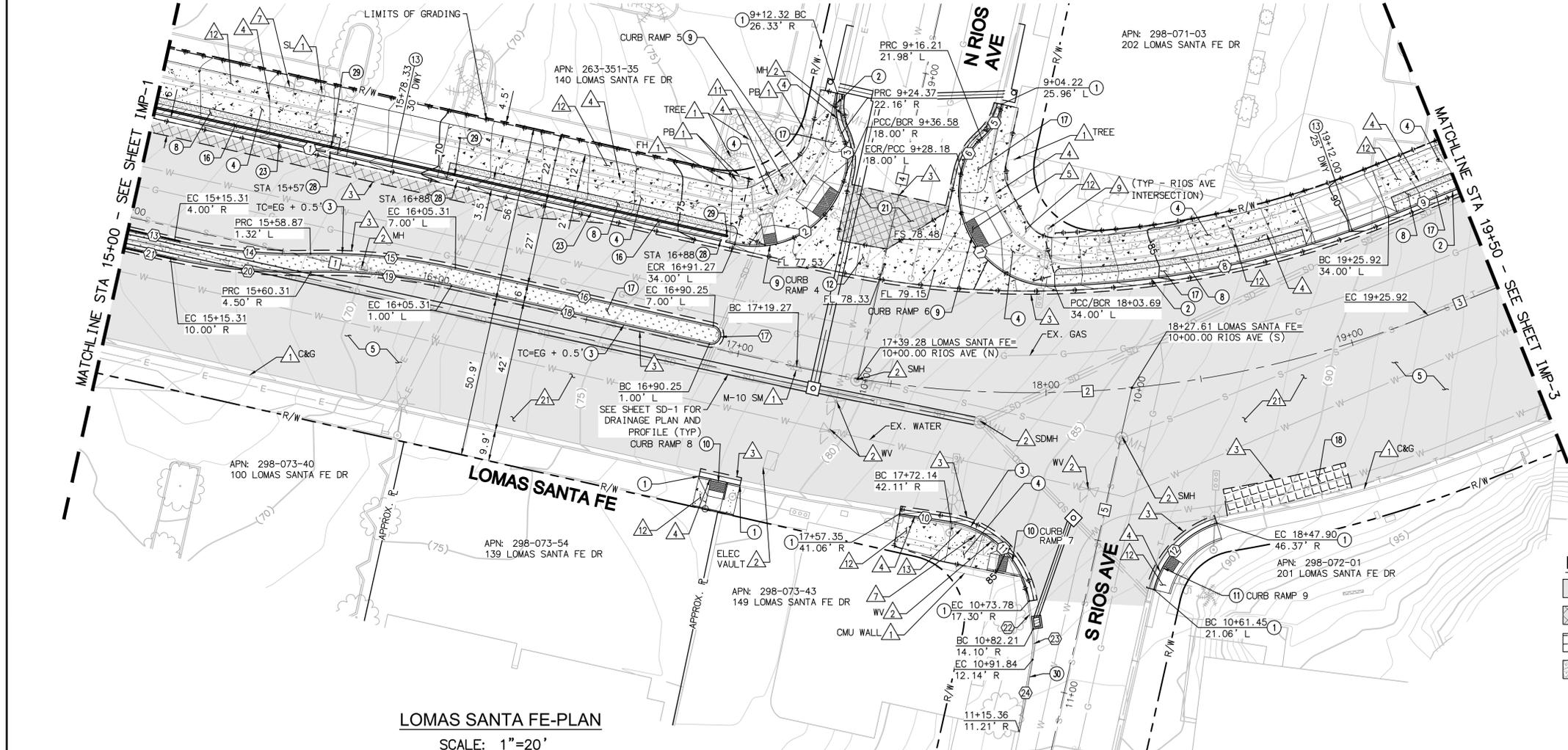
<b>Michael Baker INTERNATIONAL</b> 5050 Avenida Encinas Suite 260 Carlsbad, CA 92008 Phone: (760) 476-9193 M.BAKERINTL.COM		ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
		JOSH C. STONE RCE 60755			By: _____ Date: _____	By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	IMPROVEMENT PLAN & PROFILE
										Sheet 6 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING CROSS GUTTER
  - 6 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 7 REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
  - 8 REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
  - 9 REMOVE EXISTING SIDEWALK
  - 10 REMOVE EXISTING AC BERM
  - 11 GRIND EXISTING AC PAVEMENT 2"

- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 7 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 8 CONSTRUCT TYPE B DIRECTIONAL CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 9 CONSTRUCT TYPE C CURB RAMP PER SDRSD G-29. SEE DETAILS ON SHEET CN-1 TO CN-6.
  - 10 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 11 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - 12 CONSTRUCT BIOFILTRATION BASIN PER DETAIL 1 AND 3 ON SHEET CD-11.
  - 13 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 14 CONSTRUCT 40' X 10' CASE 111 PCC BUS PAD, 9" PCC OVER 6" CTB, PER DETAIL 4 ON SHEET C-11
  - 15 CONSTRUCT 12" AC PATCH
  - 16 CONSTRUCT MODIFIED 6" CURB AND GUTTER WITH CUTOFF WALL ADJACENT TO BIOFILTRATION BASIN PER DETAIL 2 ON SHEET CD-10
  - 17 CURB CUT PER DETAIL 2 ON SHEET CD-11
  - 18 INSTALL CLEANOUT PER DETAIL 1 AND 3 ON SHEET CD-11.
  - 19 CONSTRUCT 6" AC BERM



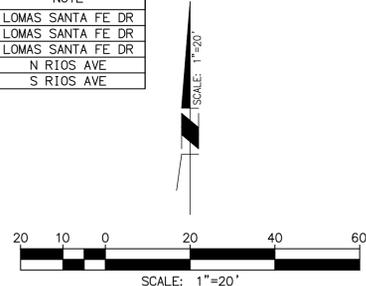
#### CURB DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N79°07'00"E	---	191.27'	6" CURB & GUTTER
2	90°00'00"	30.00'	47.12'	6" CURB & GUTTER
3	37°38'56"	20.00'	13.14'	6" CURB & GUTTER
4	37°09'16"	20.00'	12.97'	6" CURB & GUTTER
5	36°48'15"	20.00'	12.85'	6" CURB & GUTTER
6	36°46'25"	20.00'	12.84'	6" CURB & GUTTER
7	104°05'20"	30.00'	54.50'	6" CURB & GUTTER
8	20°23'53"	309.32'	110.12'	6" CURB & GUTTER
9	N44°37'47"E	---	24.08'	6" CURB & GUTTER
10	N75°08'48"E	---	16.62'	6" CURB & GUTTER
11	73°10'55"	30.00'	38.32'	6" CURB & GUTTER
12	53°47'54"	30.00'	28.17'	6" CURB & GUTTER
13	N79°07'00"E	---	17.08'	MEDIAN CURB
14	13°42'13"	190.00'	45.44'	MEDIAN CURB
15	13°42'13"	190.00'	45.44'	MEDIAN CURB
16	N79°07'00"E	---	81.30'	MEDIAN CURB
17	180°00'00"	3.00'	9.42'	MEDIAN CURB
18	N79°07'00"E	---	81.29'	MEDIAN CURB
19	13°42'06"	184.00'	44.00'	MEDIAN CURB
20	13°42'19"	196.00'	46.88'	MEDIAN CURB
21	N79°07'00"E	---	17.09'	MEDIAN CURB
22	N31°40'17"W	---	9.02'	6" AC BERM
23	18°31'48"	30.50'	9.86'	6" AC BERM
24	N13°08'29"W	---	23.52'	6" AC BERM

#### CENTERLINE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N79°07'00"E	---	219.27'	LOMAS SANTA FE DR
2	34°29'13"	343.32'	206.65'	LOMAS SANTA FE DR
3	N44°37'47"E	---	24.08'	LOMAS SANTA FE DR
4	N10°53'00"W	---	125.99'	N RIOS AVE
5	N10°53'00"W	---	89.74'	S RIOS AVE

- ### PAVEMENT LEGEND
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



LOMAS SANTA FE-PLAN  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE  
IMP-2  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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Phone: (760) 476-9193  
MBAKERINTL.COM



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES  
APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

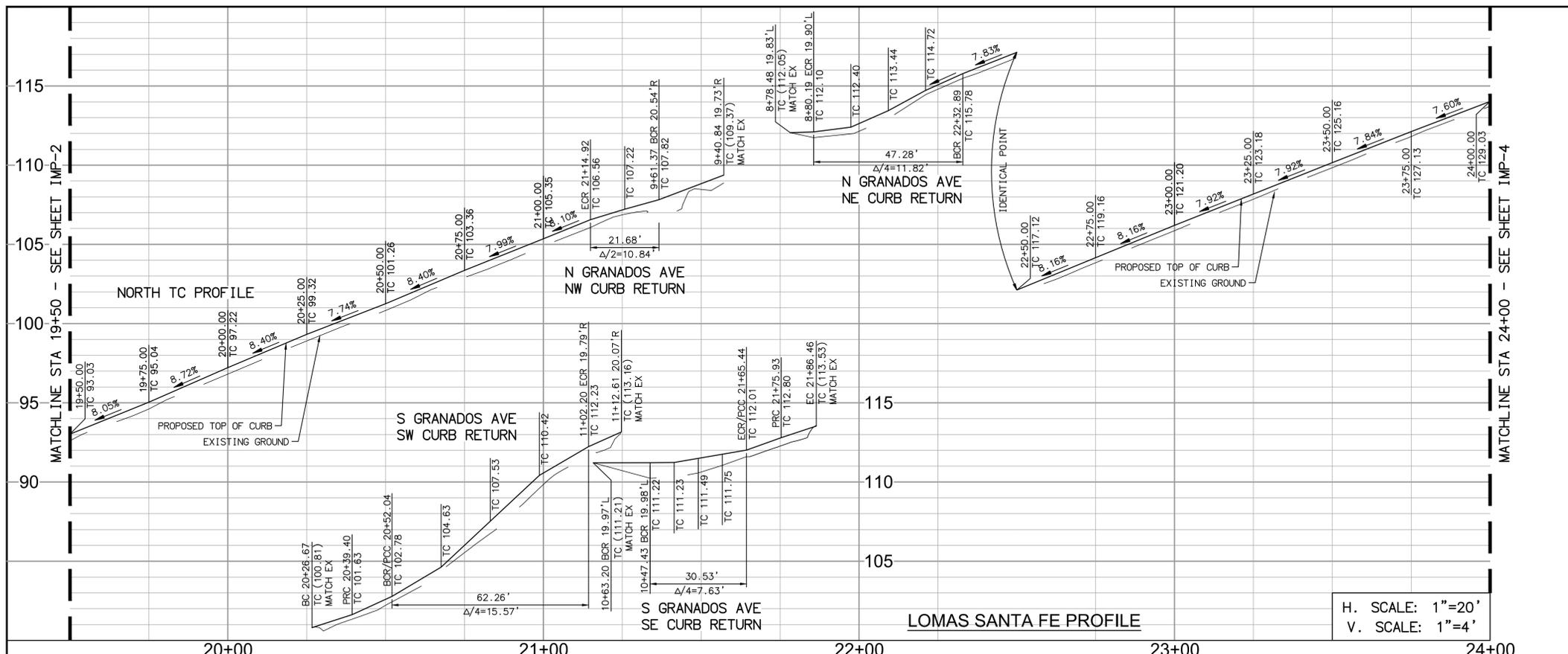
APPROVED FOR CONSTRUCTION  
By: Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE  
DRAWING NO. CG-3185  
Sheet 7 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



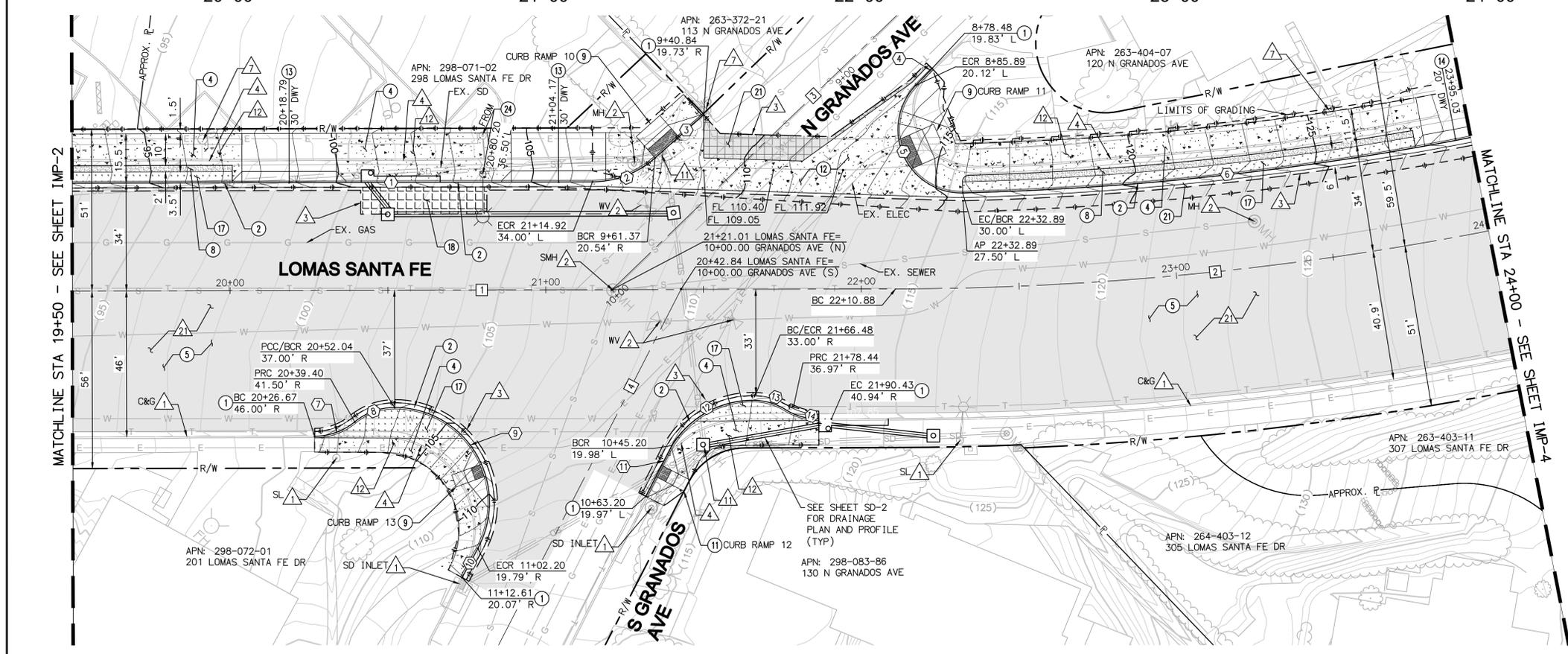
**DEMOLITION NOTES**

- ▲ PROTECT IN PLACE
- ▲ ADJUST TO FINISH GRADE
- ▲ SAWCUT EXISTING PAVEMENT
- ▲ REMOVE EXISTING CURB AND GUTTER
- ▲ RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
- ▲ REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
- ▲ REMOVE EXISTING SIDEWALK
- ▲ GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

- ① MATCH EXISTING IMPROVEMENTS.
- ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- ⑤ OVERLAY AC PAVEMENT 2"
- ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- ⑨ CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
- ⑩ CONSTRUCT TYPE C CURB RAMP PER SDRSD G-29. SEE DETAILS ON SHEET CN-1 TO CN-6.
- ⑫ CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
- ⑬ CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- ⑭ CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR RESIDENTIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- ⑰ LANDSCAPE AREA PER LANDSCAPING PLANS.
- ⑱ CONSTRUCT 40' X 10' CASE III PCC BUS PAD, 9" PCC OVER 6" CTB, PER DETAIL 4 ON SHEET C-11
- ⑳ CONSTRUCT 12" AC PATCH
- ㉑ RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.

H. SCALE: 1"=20'  
V. SCALE: 1"=4'

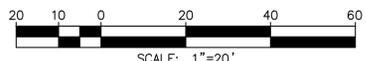


NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N44°37'47"E	---	168.70'	6" CURB & GUTTER
2	41°23'20"	20.00'	14.45'	6" CURB & GUTTER
3	N03°14'27"E	---	20.20'	6" CURB & GUTTER
4	N01°30'52"W	---	7.42'	6" CURB & GUTTER
5	133°24'00"	20.00'	47.26'	6" CURB & GUTTER
6	09°34'28"	970.00'	162.09'	6" CURB & GUTTER
7	39°28'40"	20.00'	13.78'	6" CURB & GUTTER
8	39°11'35"	20.00'	13.68'	6" CURB & GUTTER
9	N18°54'46"	30.00'	62.26'	6" CURB & GUTTER
10	N16°27'27"W	---	10.41'	6" CURB & GUTTER
11	N17°56'15"W	---	18.02'	6" CURB & GUTTER
12	62°34'02"	30.00'	32.76'	6" CURB & GUTTER
13	36°43'54"	20.00'	12.82'	6" CURB & GUTTER
14	36°48'49"	20.00'	12.85'	6" CURB & GUTTER

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N44°37'47"E	---	260.88'	LOMAS SANTA FE DR
2	10°50'08"	1000.00'	189.12'	LOMAS SANTA FE DR
3	N00°59'20"E	---	125.05'	N GRANADOS AVE
4	N17°58'17"W	---	126.29'	S GRANADOS AVE

**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
**PLAN CODE**  
IMP-3  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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mbakerintl.com

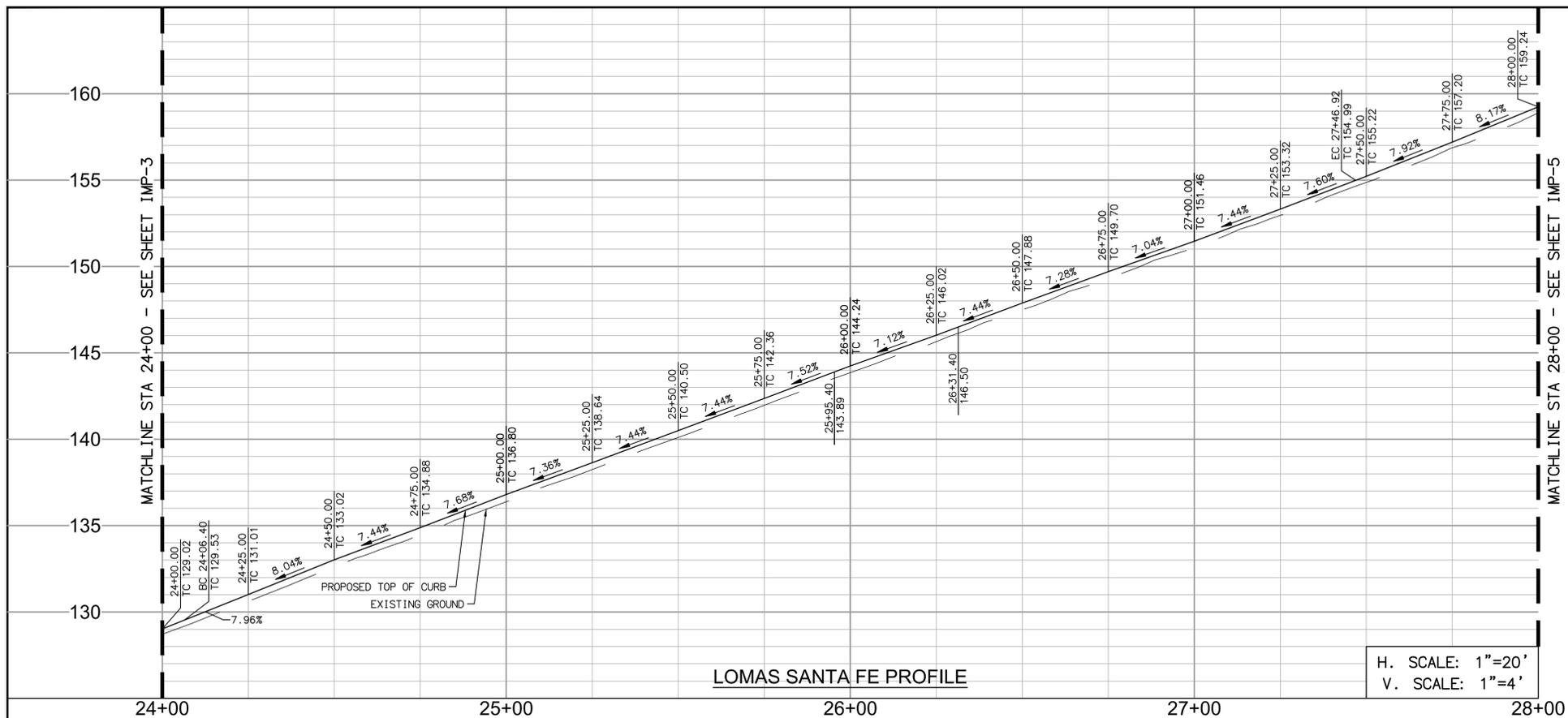


ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE
JOSH C. STONE RCE 60755			

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22

BENCH MARK	DESCRIPTION:	LOCATION:	ELEV.:	DATUM: M.S.L.

CITY OF SOLANA BEACH		ENGINEERING DEPARTMENT	DRAWING NO.
IMPROVEMENT PLANS FOR:		IMPROVEMENT PLAN & PROFILE	<b>CG-3185</b>
LOMAS SANTA FE CORRIDOR			Sheet 8 of 73



LOMAS SANTA FE PROFILE

H. SCALE: 1"=20'  
V. SCALE: 1"=4'

**DEMOLITION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISH GRADE
- 3 SAWCUT EXISTING PAVEMENT
- 4 REMOVE EXISTING CURB AND GUTTER
- 12 REMOVE EXISTING SIDEWALK
- 21 GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

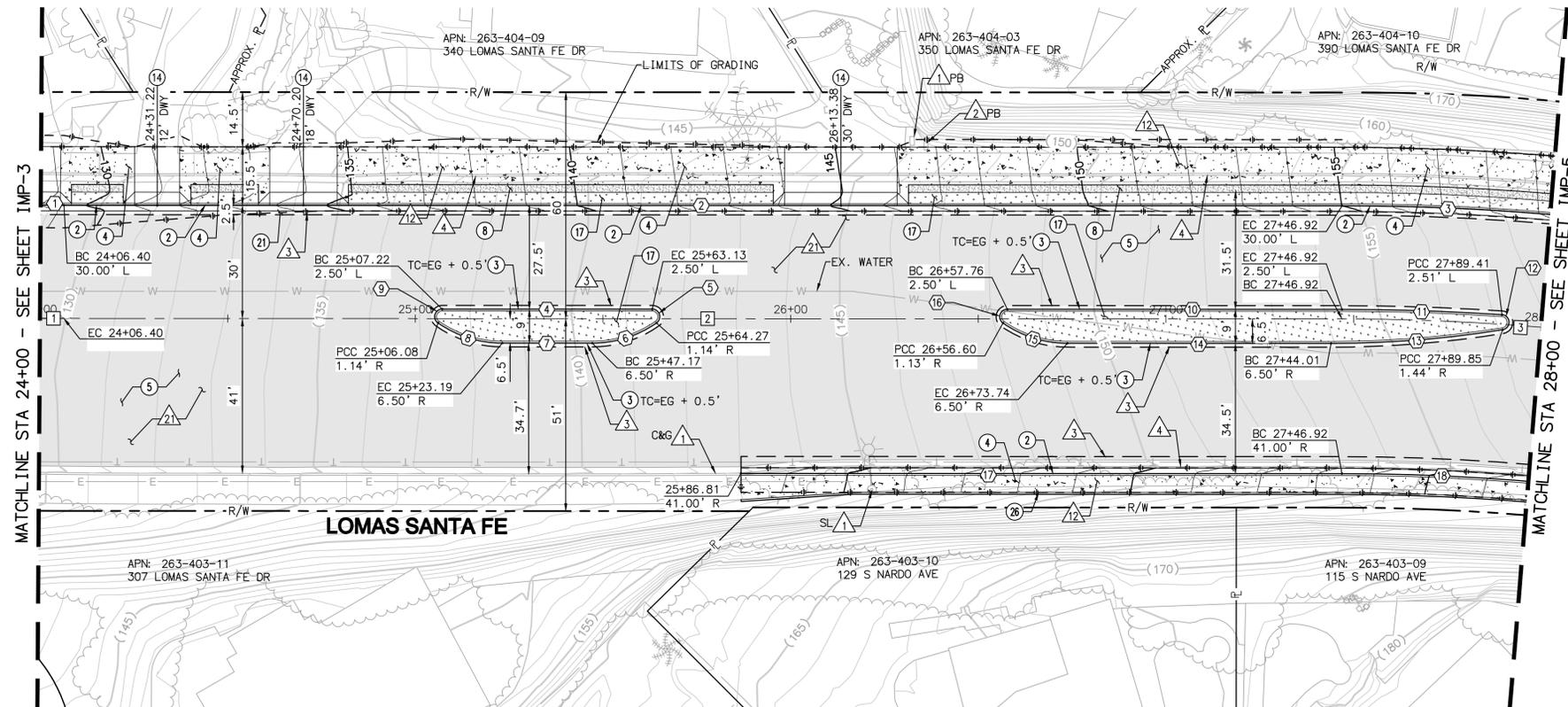
- 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- 5 OVERLAY AC PAVEMENT 2"
- 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- 14 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR RESIDENTIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
- 21 CONSTRUCT 12" AC PATCH
- 26 CONSTRUCT 8" STEM CURB PER DETAIL 1 ON SHEET CD-10

CURB DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	00°21'59"	970.00'	6.20'	6" CURB & GUTTER
2	N33°25'40"E	---	340.25'	6" CURB & GUTTER
3	04°40'45"	680.00'	55.50'	6" CURB & GUTTER
4	N33°25'40"E	---	55.91'	MEDIAN CURB
5	145°13'41"	2.00'	5.07'	MEDIAN CURB
6	34°46'19"	30.00'	18.21'	MEDIAN CURB
7	N33°25'40"E	---	23.97'	MEDIAN CURB
8	34°46'19"	30.00'	18.21'	MEDIAN CURB
9	145°13'41"	2.00'	5.07'	MEDIAN CURB
10	N33°25'40"E	---	89.15'	MEDIAN CURB
11	03°43'13"	657.00'	42.66'	MEDIAN CURB
12	167°26'01"	2.00'	5.84'	MEDIAN CURB
13	09°04'14"	290.00'	45.91'	MEDIAN CURB
14	N33°25'40"E	---	70.26'	MEDIAN CURB
15	34°51'02"	30.00'	18.25'	MEDIAN CURB
16	144°22'38"	2.00'	5.04'	MEDIAN CURB
17	N33°25'40"E	---	160.10'	6" CURB & GUTTER
18	04°39'55"	609'	49.60'	6" CURB & GUTTER

CENTERLINE DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	00°21'59"	1000.00'	6.39'	LOMAS SANTA FE DR
2	N33°25'40"E	---	340.52'	LOMAS SANTA FE DR
3	04°40'45"	650.00'	53.08'	LOMAS SANTA FE DR

**PAVEMENT LEGEND**

- 2' AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9' PCC/6' CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



LOMAS SANTA FE-PLAN

SCALE: 1"=20'



AS-BUILT

**PLAN CODE**  
IMP-4  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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Phone: (760) 476-9193  
MBAKERINTL.COM



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

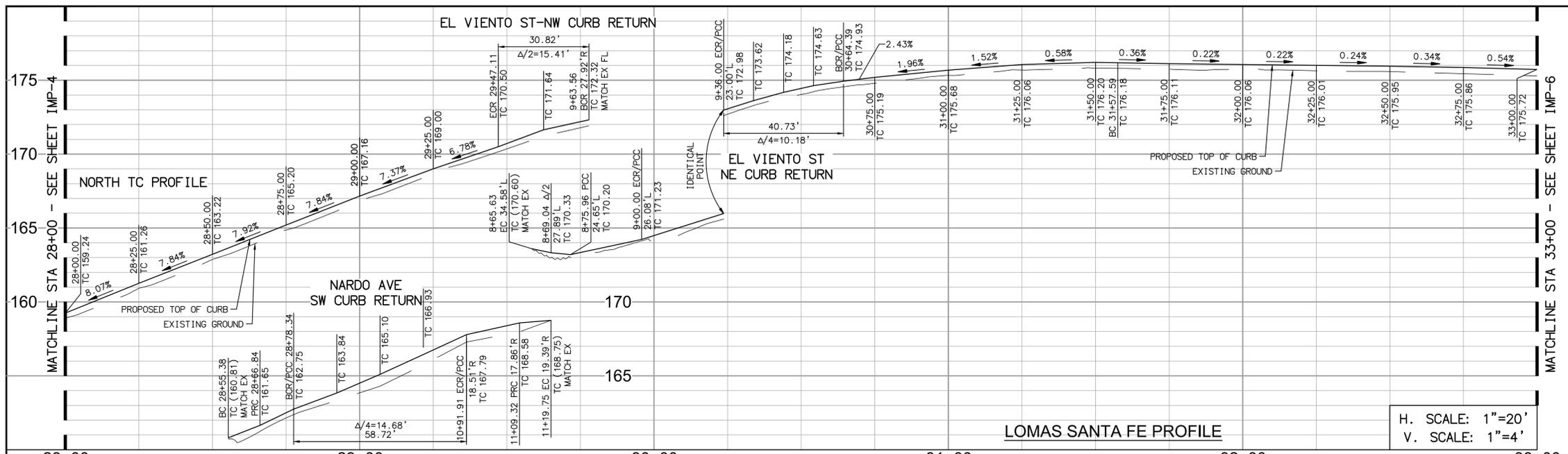
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

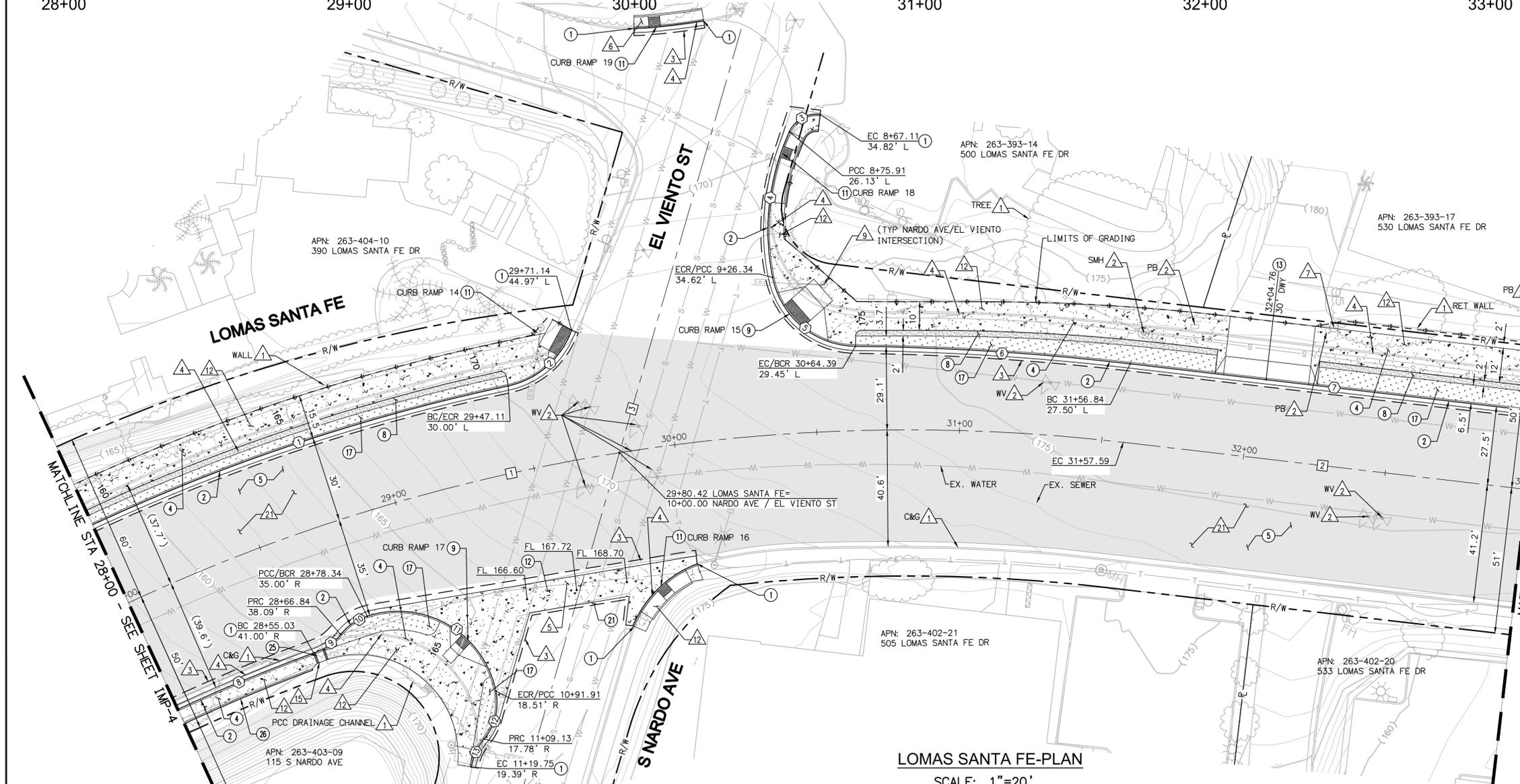
**CITY OF SOLANA BEACH**  
IMPROVEMENT PLANS FOR:  
LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE  
DRAWING NO.  
**CG-3185**  
Sheet 9 of 73



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING CROSS GUTTER
  - 6 REMOVE EXISTING AC PATH
  - 7 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 8 REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
  - 9 REMOVE EXISTING SIDEWALK
  - 10 REMOVE EXISTING CURB OUTLET
  - 21 GRIND EXISTING AC PAVEMENT 2"

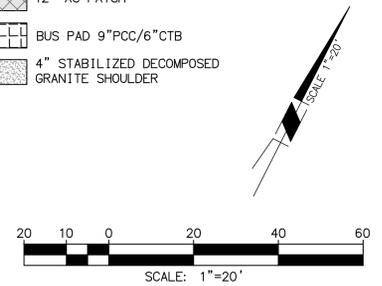
- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 8 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 9 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 11 CONSTRUCT TYPE C CURB RAMP PER SDRSD G-29. SEE DETAILS ON SHEET CN-1 TO CN-6.
  - 12 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 13 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 21 CONSTRUCT 12" AC PATCH
  - 25 REPLACE EXISTING TYPE A CURB OUTLET IN KIND PER SDRSD D-25A.
  - 26 CONSTRUCT 8" STEM CURB PER DETAIL 1 ON SHEET CD-10



NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	12°58'04"	680.00'	153.90'	6" CURB & GUTTER
2	58°07'34"	30.00'	30.90'	6" CURB & GUTTER
3	72°09'55"	10.50'	13.22'	6" CURB & GUTTER
4	33°31'36"	82.29'	48.15'	6" CURB & GUTTER
5	82°15'11"	35.00'	50.25'	6" CURB & GUTTER
6	07°45'04"	677.50'	91.65'	6" CURB & GUTTER
7	N69°37'38"E	---	142.41'	6" CURB & GUTTER
8	04°55'56"	609.00'	52.42'	6" CURB & GUTTER
9	30°48'55"	20.00'	10.76'	6" CURB & GUTTER
10	32°47'20"	20.00'	11.45'	6" CURB & GUTTER
11	96°07'23"	35.00'	58.72'	6" CURB & GUTTER
12	51°37'08"	20.00'	18.02'	6" CURB & GUTTER
13	30°34'08"	20.00'	10.67'	6" CURB & GUTTER

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	31°31'13"	650.00'	357.59'	LOMAS SANTA FE DR
2	N69°37'38"E	---	142.41'	LOMAS SANTA FE DR
3	N10°53'37"W	---	274.43'	S NARDO AVE/EL VIENTO ST

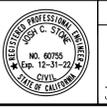
- ### PAVEMENT LEGEND
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**PLAN CODE**  
IMP-5

AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES  
APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

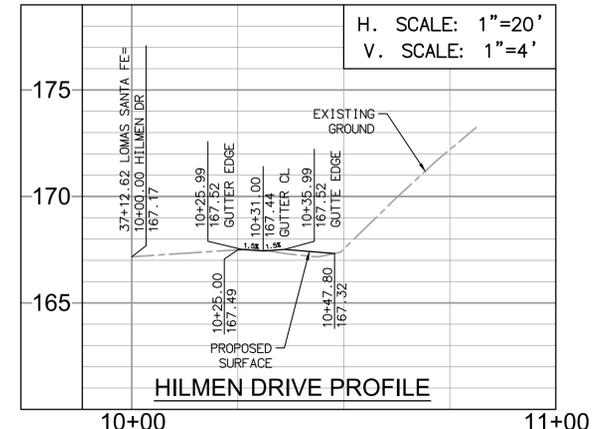
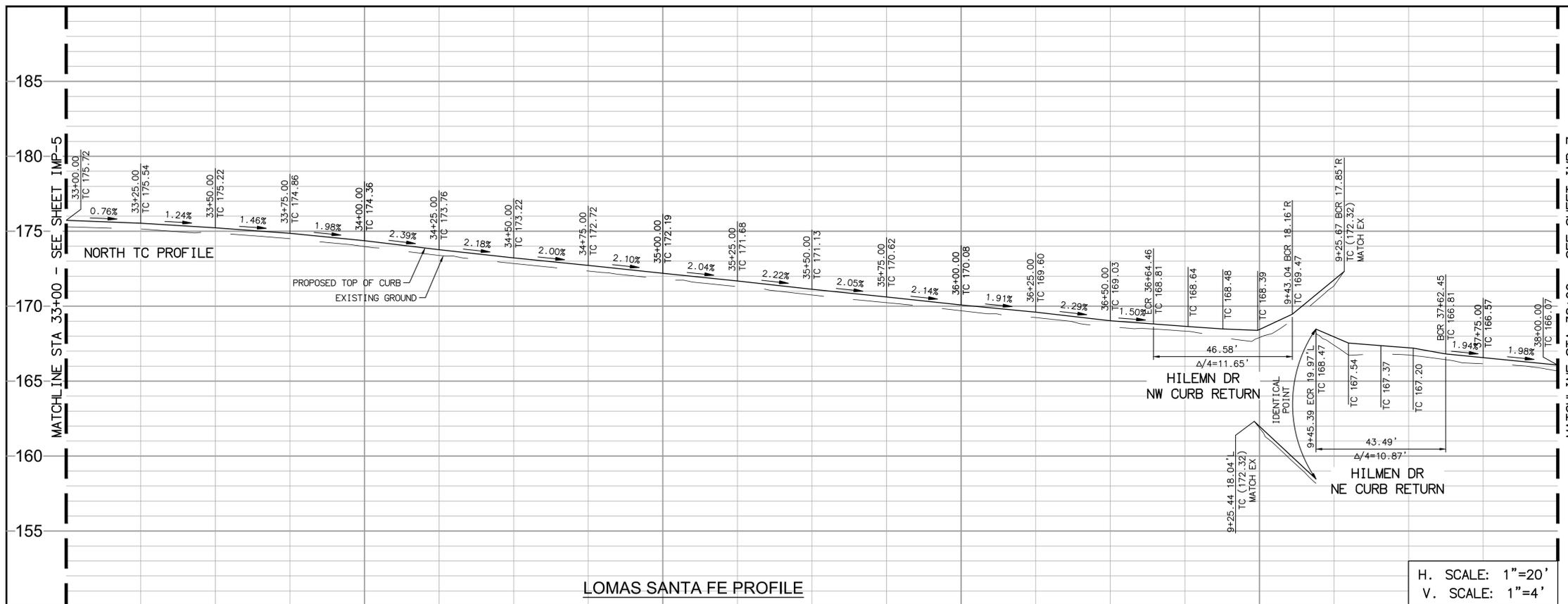
**CITY OF SOLANA BEACH**  
IMPROVEMENT PLANS FOR:  
LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
Sheet 10 of 73

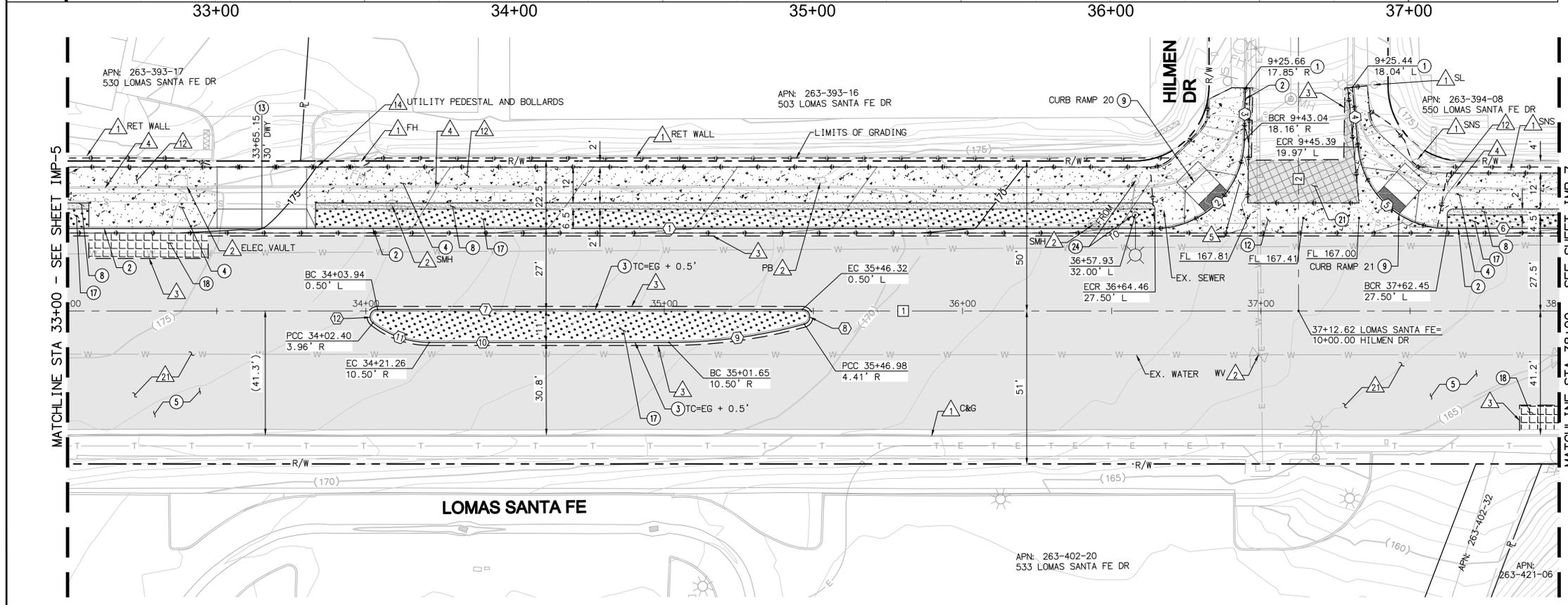
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING CROSS GUTTER
  - 6 REMOVE EXISTING SIDEWALK
  - 7 TO BE RELOCATED BY OTHERS
  - 8 GRIND EXISTING AC PAVEMENT 2"

- CONSTRUCTION NOTES**
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 7 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 8 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 9 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - 10 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 11 CONSTRUCT 40' X 10' CASE III PCC BUS PAD, 9" PCC OVER 6" CTB, PER DETAIL 4 ON SHEET C-11
  - 12 CONSTRUCT 12" AC PATCH
  - 13 RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.



CURB DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N69°37'38"E	---	364.46'	6" CURB & GUTTER
2	88°57'43"	30.00'	46.58'	6" CURB & GUTTER
3	N19°20'05"W	---	17.39'	6" CURB & GUTTER
4	N25°54'04"W	---	20.04'	6" CURB & GUTTER
5	84°28'18"	30.00'	44.23'	6" CURB & GUTTER
6	N69°37'38"E	---	37.55'	6" CURB & GUTTER
7	N69°37'38"E	---	142.37'	MEDIAN CURB
8	164°41'49"	2.50'	7.19'	MEDIAN CURB
9	15°18'11"	171.72'	45.87'	MEDIAN CURB
10	N69°37'38"E	---	80.39'	MEDIAN CURB
11	38°12'47"	30.50'	20.34'	MEDIAN CURB
12	141°47'13"	2.50'	6.19'	MEDIAN CURB

CENTERLINE DATA TABLE			
NO	BEARING/Delta	RADIUS	LENGTH
1	N69°37'38"E	---	500.00'
2	N20°22'22"W	---	91.20'

- PAVEMENT LEGEND**
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**PLAN CODE**  
 IMP-6  
 AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**LOMAS SANTA FE-PLAN**  
 SCALE: 1"=20'

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



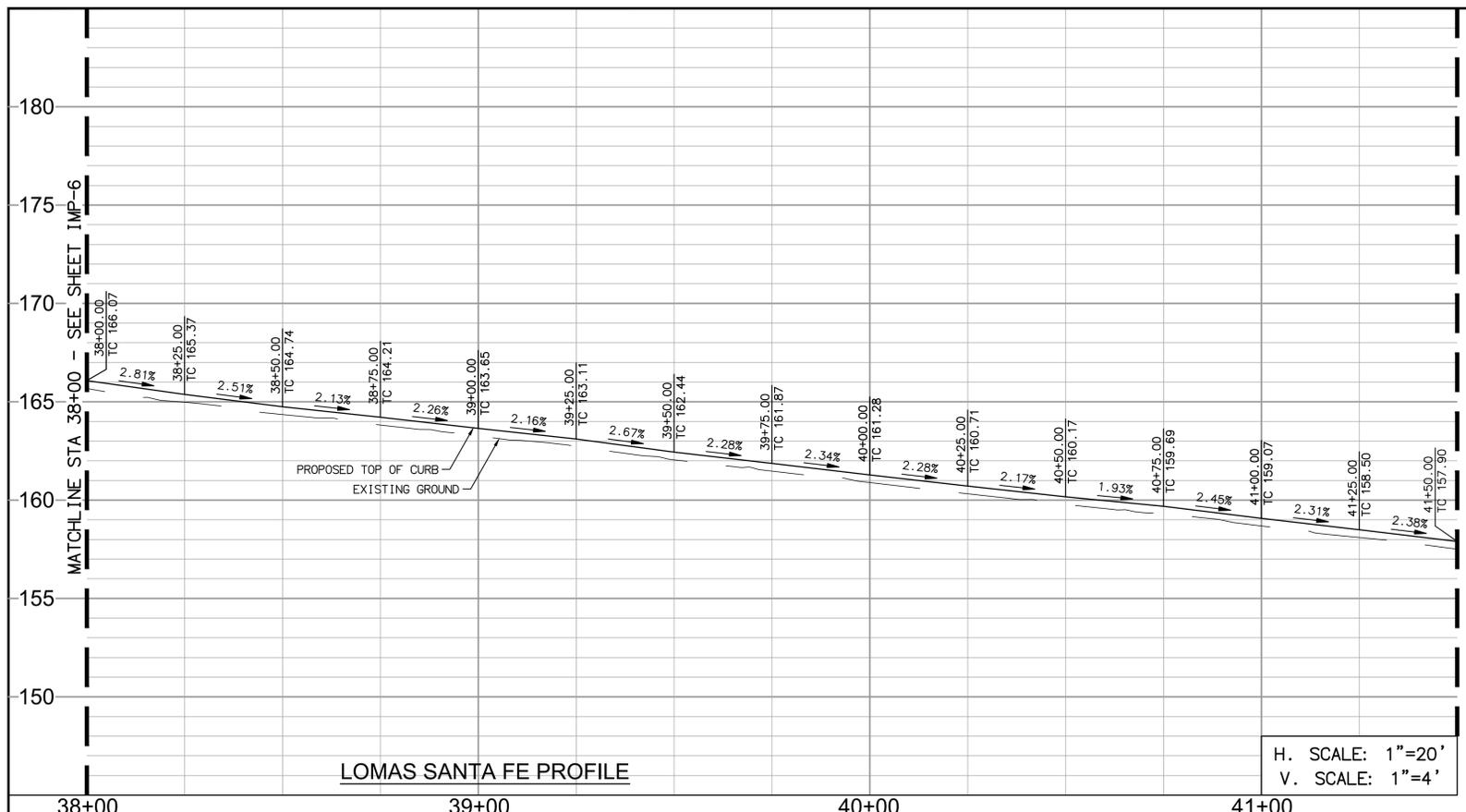
ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE
JOSH C. STONE RCE 60755		

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	

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

ENGINEERING DEPARTMENT  
 IMPROVEMENT PLAN & PROFILE

DRAWING NO. **CG-3185**  
 Sheet 11 of 73



**DEMOLITION NOTES**

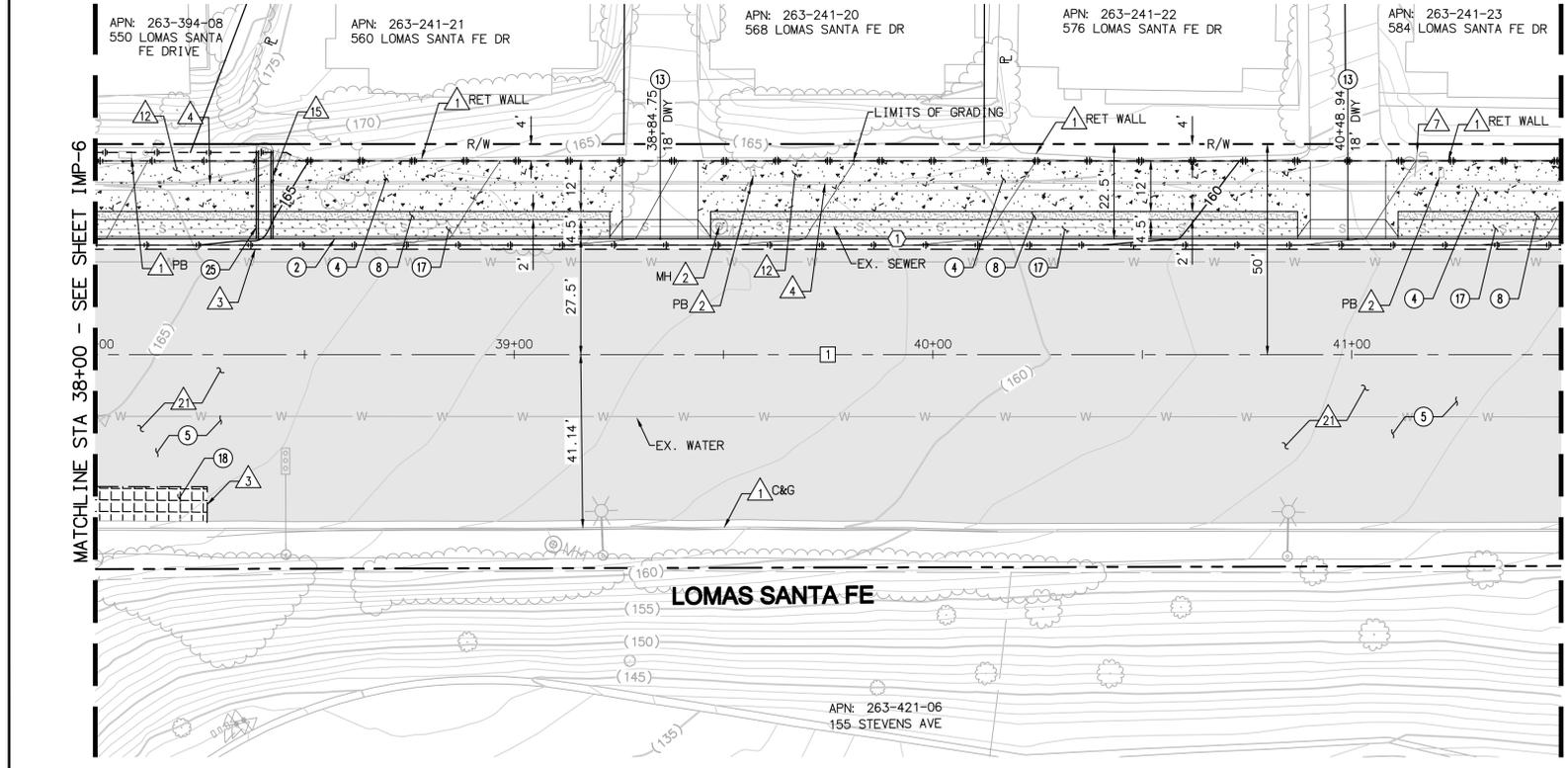
- ① PROTECT IN PLACE
- ② ADJUST TO FINISH GRADE
- ③ SAWCUT EXISTING PAVEMENT
- ④ REMOVE EXISTING CURB AND GUTTER
- ⑤ RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
- ⑥ REMOVE EXISTING SIDEWALK
- ⑦ REMOVE EXISTING CURB OUTLET
- ⑧ GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

- ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- ⑤ OVERLAY AC PAVEMENT 2"
- ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- ⑬ CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- ⑰ LANDSCAPE AREA PER LANDSCAPING PLANS.
- ⑱ CONSTRUCT 40' X 10' CASE III PCC BUS PAD, 9" PCC OVER 6" CTB, PER DETAIL 4 ON SHEET C-11
- ⑳ REPLACE EXISTING TYPE A CURB OUTLET IN KIND PER SDRSD D-25A.

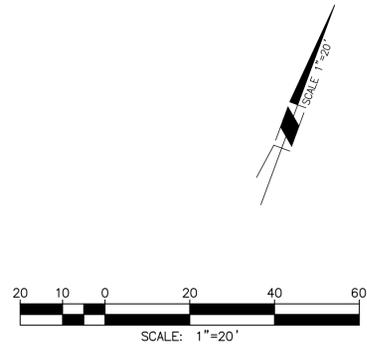
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N69°37'38"E	--	350.00'	6" CURB & GUTTER

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N69°37'38"E	--	350.00'	LOMAS SANTA FE DR.



**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
**PLAN CODE**  
IMP-7  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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MBAKERINTL.COM



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

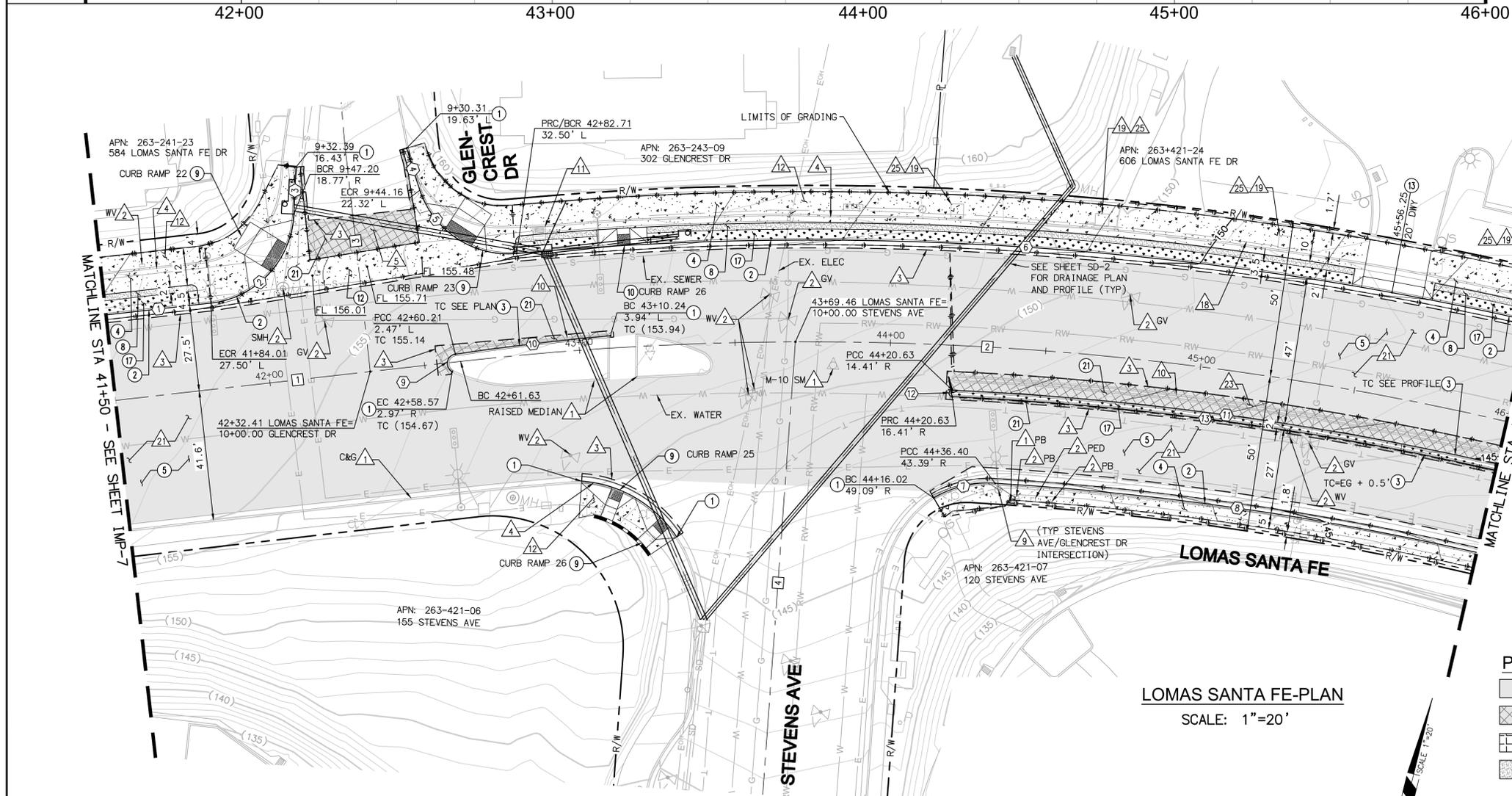
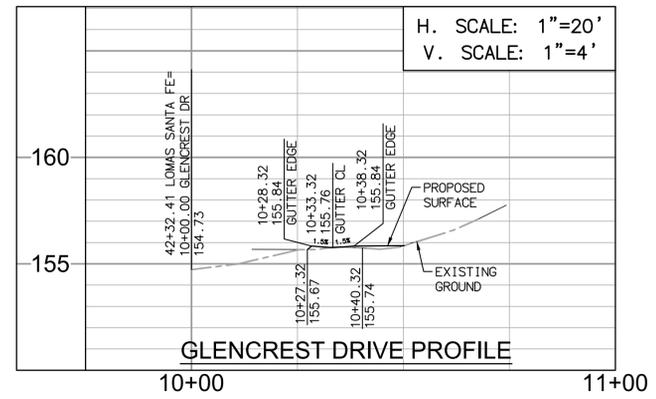
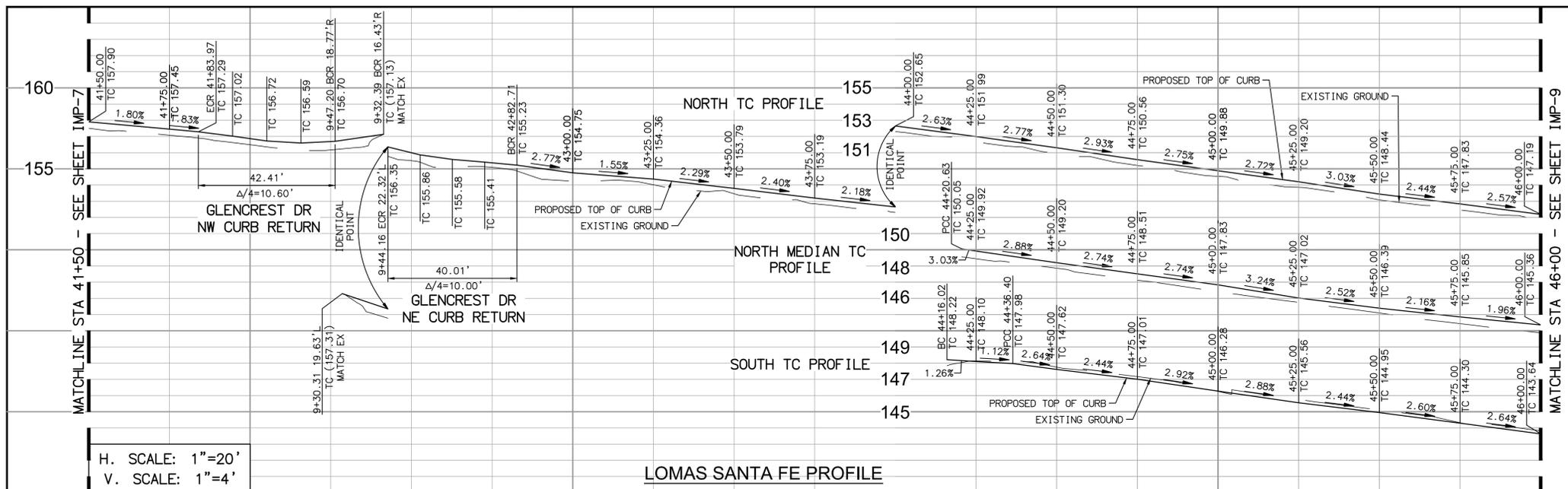
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: IMPROVEMENT PLAN & PROFILE  
**LOMAS SANTA FE CORRIDOR**

DRAWING NO.  
**CG-3185**  
Sheet 12 of 73



**DEMOLITION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISH GRADE
- 3 SAWCUT EXISTING PAVEMENT
- 4 REMOVE EXISTING CURB AND GUTTER
- 5 REMOVE EXISTING CROSS GUTTER
- 6 REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
- 7 REMOVE EXISTING MEDIAN CURB
- 8 REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
- 9 REMOVE EXISTING SIDEWALK
- 10 REMOVE EXISTING RAILING
- 11 REMOVE TREE GRATE, SEE LANDSCAPE PLANS
- 12 GRIND EXISTING AC PAVEMENT 2"
- 13 REMOVE EXISTING MEDIAN PAVERS
- 14 RELOCATE EXISTING TREE, SEE LANDSCAPE PLANS

**CONSTRUCTION NOTES**

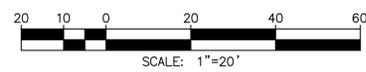
- 1 MATCH EXISTING IMPROVEMENTS.
- 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- 5 OVERLAY AC PAVEMENT 2"
- 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- 7 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
- 8 CONSTRUCT TYPE B DIRECTIONAL CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
- 9 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
- 10 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- 11 LANDSCAPE AREA PER LANDSCAPING PLANS.
- 12 CONSTRUCT 12" AC PATCH

CURB DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N69°37'38"E	---	34.01'	6" CURB & GUTTER
2	80°59'42"	30.00'	42.41'	6" CURB & GUTTER
3	N11°22'04"W	---	14.99'	6" CURB & GUTTER
4	02°46'47"	290.90'	14.11'	6" CURB & GUTTER
5	76°24'33"	30.00'	40.01'	6" CURB & GUTTER
6	17°58'25"	1044.50'	327.66'	6" CURB & GUTTER
7	33°38'24"	35.00'	20.55'	6" CURB & GUTTER
8	09°15'37"	968.50'	156.53'	6" CURB & GUTTER
9	142°29'02"	3.00'	7.46'	MEDIAN CURB
10	03°23'04"	850.00'	50.21'	MEDIAN CURB
11	10°09'23"	997.50'	176.82'	MEDIAN CURB
12	180°00'00"	1.00'	3.14'	MEDIAN CURB
13	10°09'22"	995.50'	176.46'	MEDIAN CURB

CENTERLINE DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N69°37'38"E	---	111.63'	LOMAS SANTA FE DR
2	19°23'14"	1000.00'	338.37'	LOMAS SANTA FE DR
3	N20°22'22"W	---	77.92'	GLENCREST DR
4	N09°47'52"W	---	184.19'	STEVENS AVE

**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



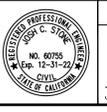
**AS-BUILT**

By: \_\_\_\_\_ Date: \_\_\_\_\_

R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**

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Carlsbad, CA 92008  
Phone: (760) 476-9193  
MBAKERINTL.COM



ENGINEER OF WORK

JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES

APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL

By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION

By: Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK

DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

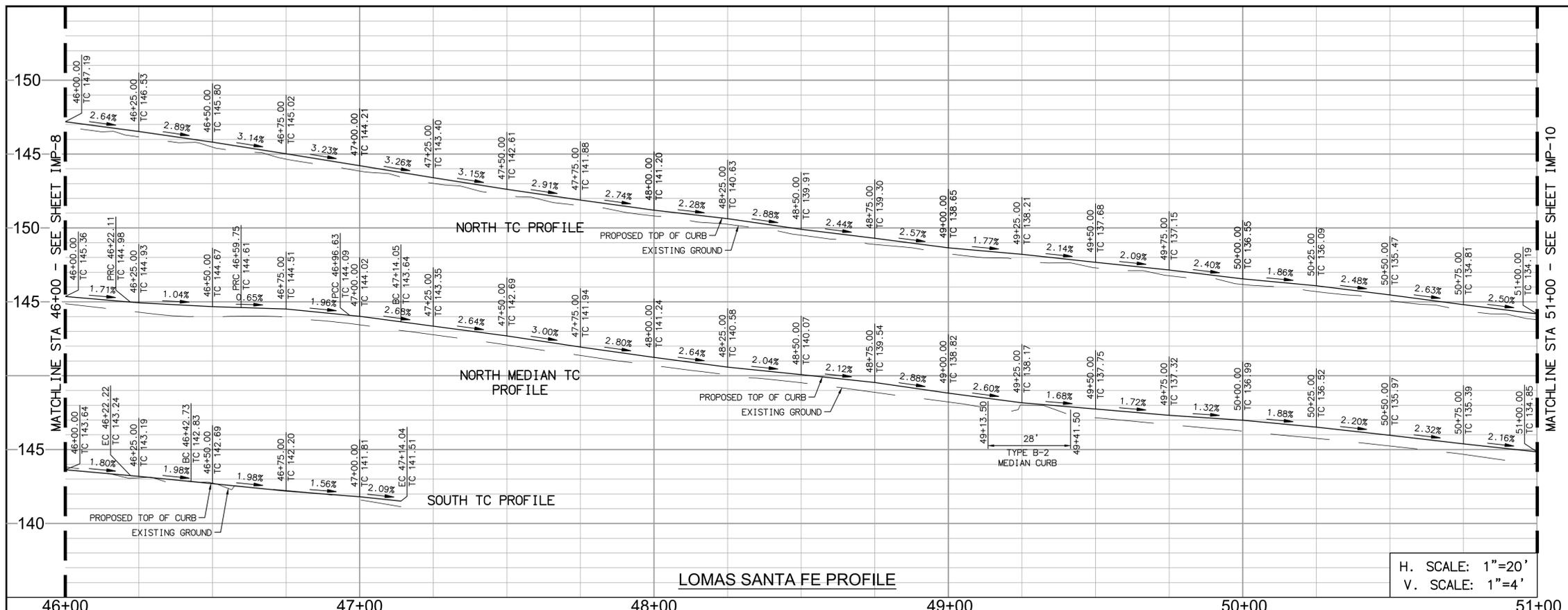
**CITY OF SOLANA BEACH**

IMPROVEMENT PLANS FOR:  
**LOMAS SANTA FE CORRIDOR**

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE

DRAWING NO.  
**CG-3185**

Sheet 13 of 73



- ### DEMOLITION NOTES
- ▲ PROTECT IN PLACE
  - ▲ ADJUST TO FINISH GRADE
  - ▲ SAWCUT EXISTING PAVEMENT
  - ▲ REMOVE EXISTING CURB AND GUTTER
  - ▲ REMOVE EXISTING MEDIAN CURB
  - ▲ REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
  - ▲ REMOVE EXISTING SIDEWALK
  - ▲ REMOVE EXISTING RAILING
  - ▲ REMOVE TREE GRATE, SEE LANDSCAPE PLANS
  - ▲ GRIND EXISTING AC PAVEMENT 2"
  - ▲ REMOVE EXISTING MEDIAN PAVERS
  - ▲ RELOCATE EXISTING TREE, SEE LANDSCAPE PLANS

- ### CONSTRUCTION NOTES
- ① MATCH EXISTING IMPROVEMENTS.
  - ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - ③ CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - ⑤ OVERLAY AC PAVEMENT 2"
  - ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - ⑬ CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14 FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - ⑰ LANDSCAPE AREA PER LANDSCAPING PLANS.
  - ⑳ CONSTRUCT 12" AC PATCH
  - ㉓ CONSTRUCT TYPE B-2 MEDIAN CURB PER SDRSD G-6.

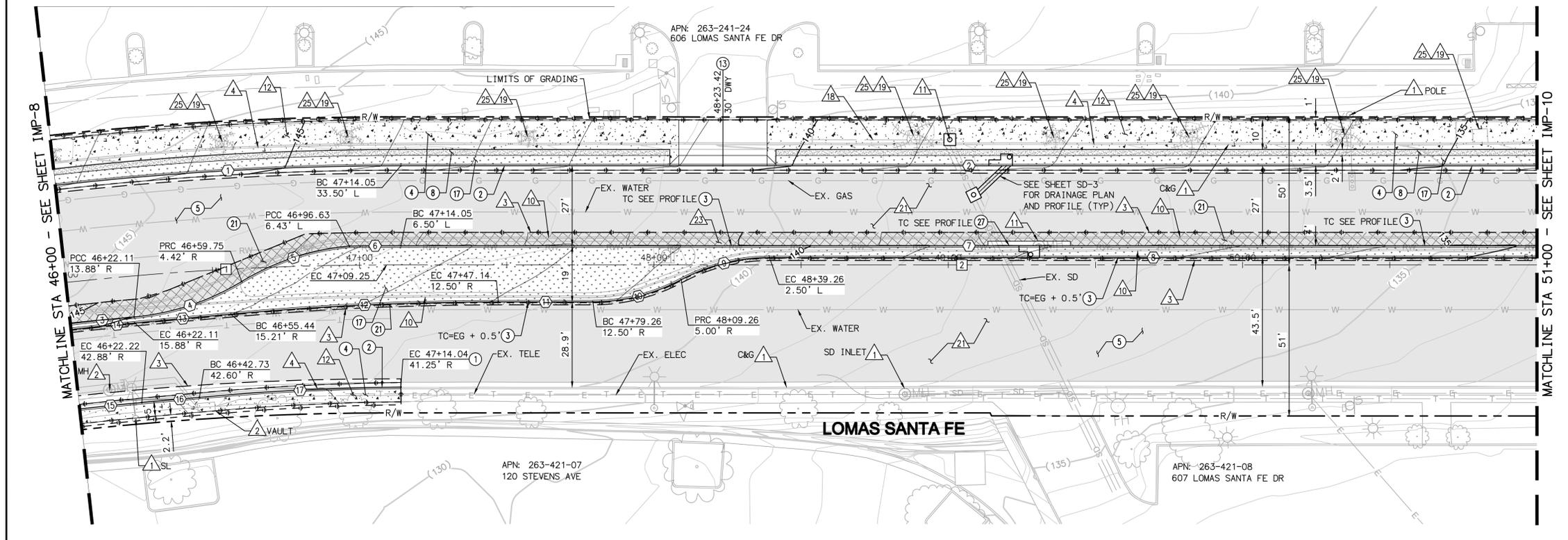
- ### PAVEMENT LEGEND
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER

#### CURB DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	06°27'20"	1044.50'	117.68'	6" CURB & GUTTER
2	N84°43'34"W	--	385.95'	6" CURB & GUTTER
3	01°15'07"	997.50'	21.80'	MEDIAN CURB
4	25°49'26"	86.10'	38.80'	MEDIAN CURB
5	25°49'26"	86.10'	38.80'	MEDIAN CURB
6	00°59'08"	1017.50'	17.50'	MEDIAN CURB
7	N84°43'34"W	--	385.95'	MEDIAN CURB
8	N84°43'34"W	--	260.74'	MEDIAN CURB
9	28°04'23"	63.75'	31.23'	MEDIAN CURB
10	28°04'23"	63.75'	31.23'	MEDIAN CURB
11	N84°43'34"W	--	32.13'	MEDIAN CURB
12	05°12'46"	1000.00'	90.98'	MEDIAN CURB
13	N89°56'20"W	--	32.82'	MEDIAN CURB
14	01°15'09"	995.50'	21.76'	MEDIAN CURB
15	01°15'29"	968.50'	21.27'	6" CURB & GUTTER
16	N89°56'20"W	--	19.64'	6" CURB & GUTTER
17	04°37'11"	850.00'	68.53'	6" CURB & GUTTER

#### CENTERLINE DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	06°15'34"	1000.00'	109.25'	LOMAS SANTA FE DR
2	N84°43'34"W	--	390.75'	LOMAS SANTA FE DR



AS-BUILT  
 PLAN CODE IMP-9  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



LOMAS SANTA FE-PLAN  
 SCALE: 1"=20'

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



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

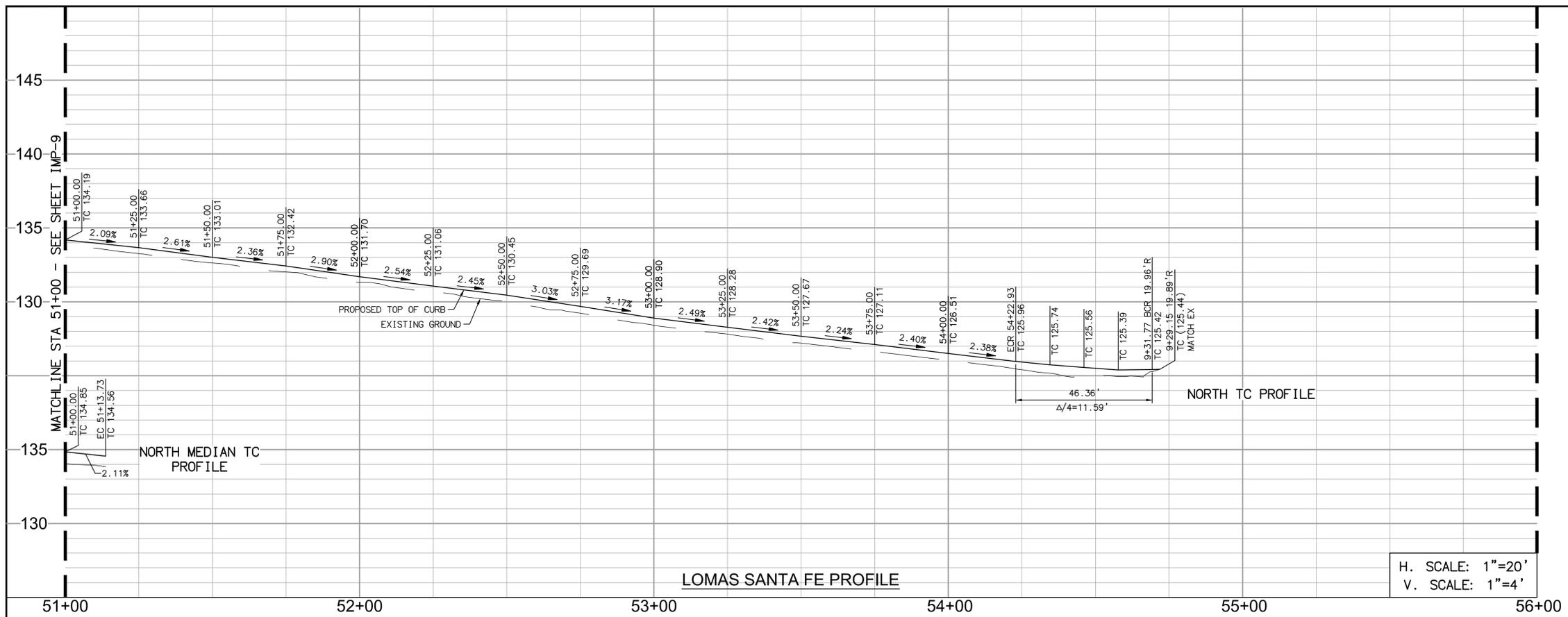
RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

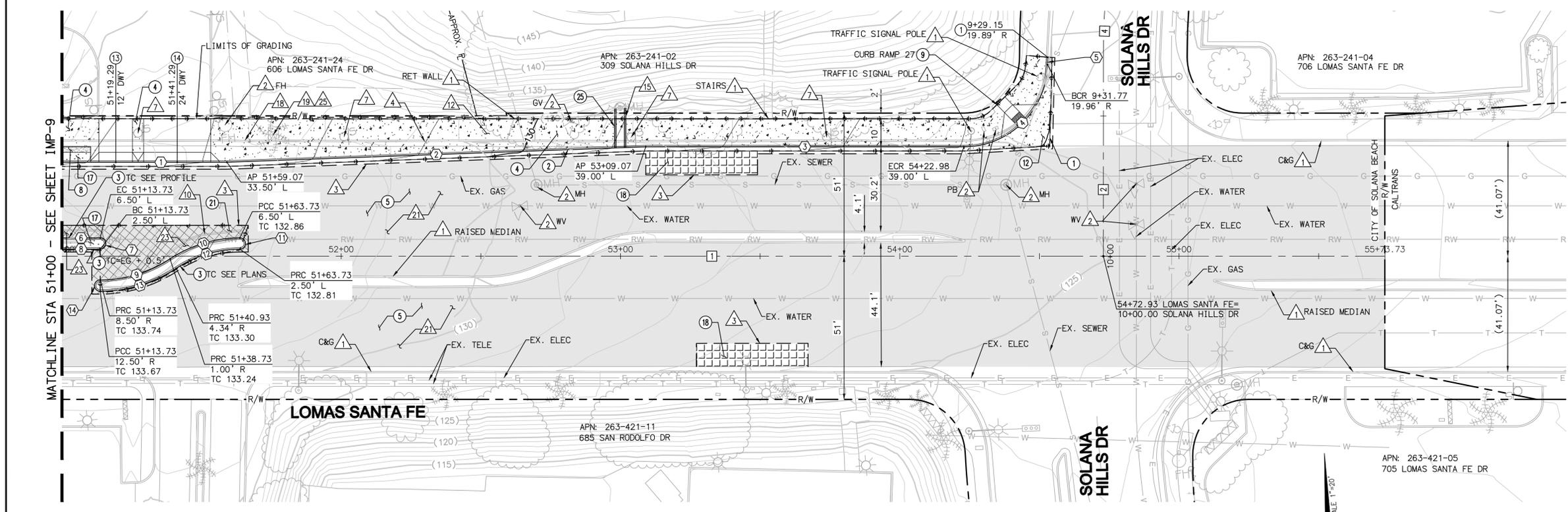
ENGINEERING DEPARTMENT  
 IMPROVEMENT PLAN & PROFILE  
 DRAWING NO. CG-3185  
 Sheet 14 of 73



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 6 REMOVE EXISTING MEDIAN CURB
  - 7 REMOVE EXISTING SIDEWALK
  - 8 REMOVE EXISTING CURB OUTLET
  - 9 REMOVE EXISTING RAILING
  - 10 REMOVE TREE GRATE, SEE LANDSCAPE PLANS
  - 11 GRIND EXISTING AC PAVEMENT 2"
  - 12 REMOVE EXISTING MEDIAN PAVERS
  - 13 RELOCATE EXISTING TREE, SEE LANDSCAPE PLANS

- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 9 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 12 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 13 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - 14 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR RESIDENTIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
  - 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 18 CONSTRUCT 40' X 10' CASE III PCC BUS PAD, 9" PCC OVER 6" CTB, PER DETAIL 4 ON SHEET C-11
  - 21 CONSTRUCT 12" AC PATCH
  - 25 REPLACE EXISTING TYPE A CURB OUTLET IN KIND PER SDRSD D-25A.

H. SCALE: 1"=20'  
V. SCALE: 1"=4'



### CURB DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N84°43'34"W	---	59.07'	6" CURB & GUTTER
2	N86°49'34"W	---	150.10'	6" CURB & GUTTER
3	N84°43'34"W	---	113.91'	6" CURB & GUTTER
4	88°32'09"	30.00'	46.36'	6" CURB & GUTTER
5	N06°44'17"E	---	2.62'	6" CURB & GUTTER
6	N84°43'34"W	---	13.73'	MEDIAN CURB
7	180°00'00"	2.00'	6.28'	MEDIAN CURB
8	N84°43'34"W	---	13.73'	MEDIAN CURB
9	33°23'57"	45.42'	26.47'	MEDIAN CURB
10	33°23'57"	45.42'	26.47'	MEDIAN CURB
11	180°00'00"	2.00'	6.28'	MEDIAN CURB
12	33°23'58"	41.42'	24.14'	MEDIAN CURB
13	33°23'57"	49.42'	28.81'	MEDIAN CURB
14	180°00'00"	2.00'	6.28'	MEDIAN CURB

### PAVEMENT LEGEND

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER

### CENTERLINE DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N84°43'34"W	---	473.73'	LOMAS SANTA FE DR
2	N05°16'26"E	---	71.00'	SOLANA HILLS DR
4	03°08'56"	300.00'	16.49'	SOLANA HILLS DR



LOMAS SANTA FE-PLAN  
SCALE: 1"=20'

AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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Phone: (760) 476-9193  
mbakerintl.com



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
Sheet 15 of 73

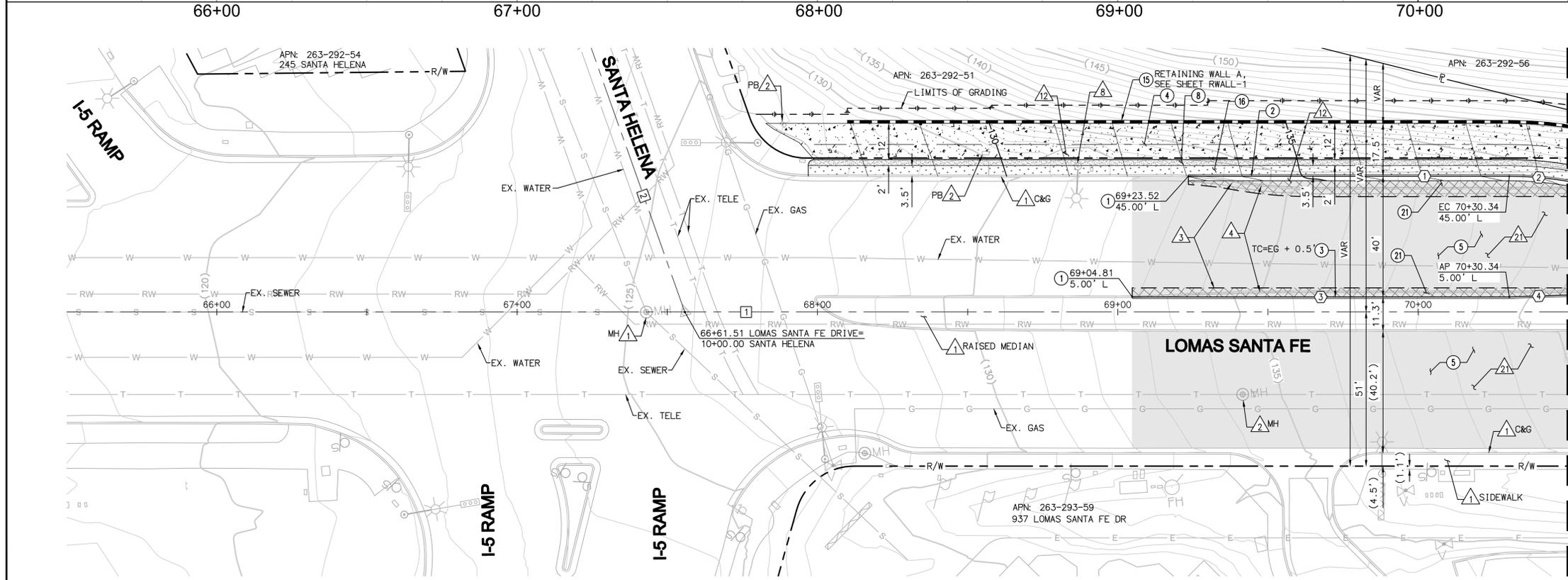
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- DEMOLITION NOTES**
- ▲ PROTECT IN PLACE
  - ▲ ADJUST TO FINISH GRADE
  - ▲ SAWCUT EXISTING PAVEMENT
  - ▲ REMOVE EXISTING CURB AND GUTTER
  - ▲ RELOCATE EXISTING STREET LIGHT PER STREET LIGHTING PLANS
  - ▲ REMOVE EXISTING SIDEWALK
  - ▲ GRIND EXISTING AC PAVEMENT 2"

- CONSTRUCTION NOTES**
- ① MATCH EXISTING IMPROVEMENTS.
  - ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - ③ CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - ⑤ OVERLAY AC PAVEMENT 2"
  - ⑥ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - ⑦ CONSTRUCT RETAINING WALL. SEE SHEET RWALL-1 TO RWALL-4 FOR PLAN AND PROFILE.
  - ⑧ CONSTRUCT BIOFILTRATION BASIN PER DETAIL 1 ON SHEET CD-11.
  - ⑨ CONSTRUCT 12" AC PATCH

H. SCALE: 1"=20'  
V. SCALE: 1"=4'



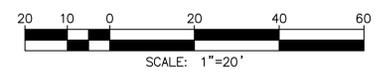
**CURB DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'48"W	--	106.81'	6" CURB & GUTTER
2	09°53'20"	114.50'	19.76'	6" CURB & GUTTER
3	N84°43'48"W	--	125.53'	MEDIAN CURB
4	N86°38'24"W	--	19.68'	MEDIAN CURB

**CENTERLINE DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'48"W	--	500.00'	LOMAS SANTA FE DR
2	N14°21'15"W	--	92.85'	SANTA HELENA

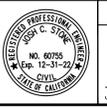
- PAVEMENT LEGEND**
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
**PLAN CODE**  
IMP-11  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE  
By: \_\_\_\_\_ Date: \_\_\_\_\_

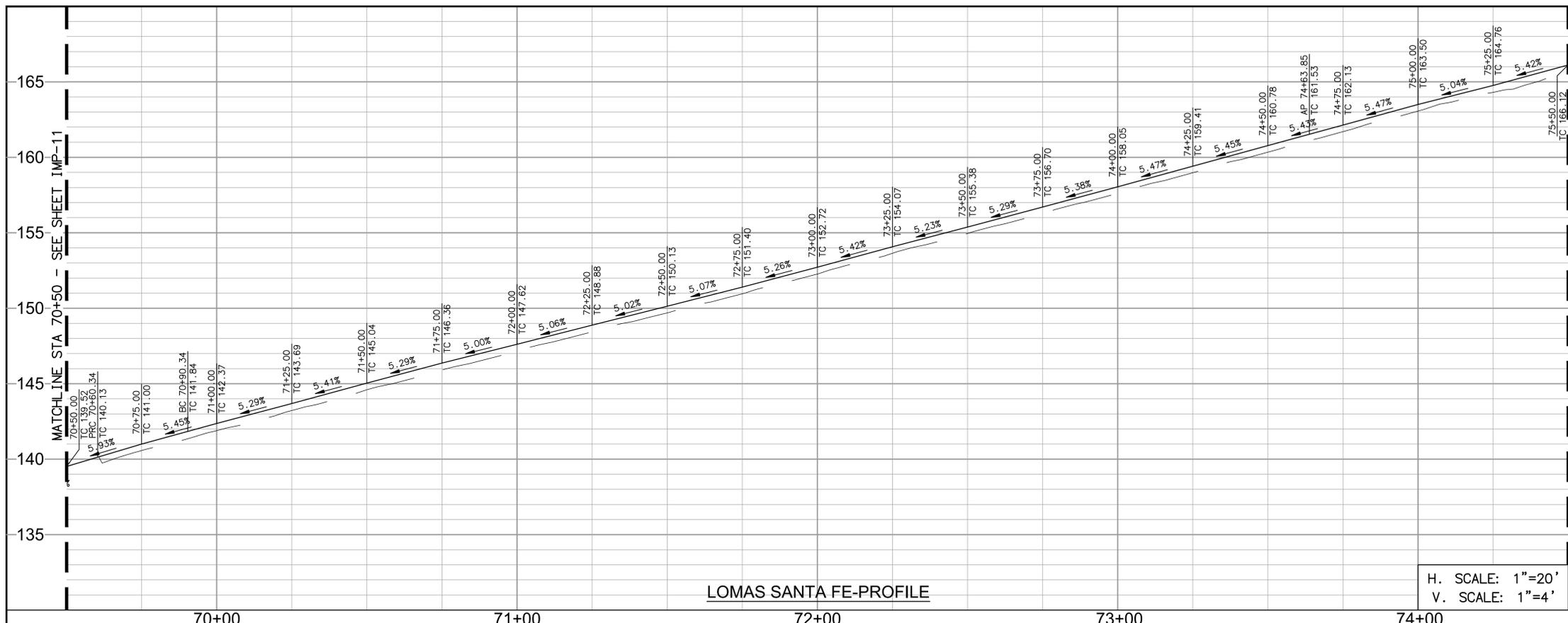
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE  
DRAWING NO. **CG-3185**  
Sheet 16 of 73



LOMAS SANTA FE-PROFILE

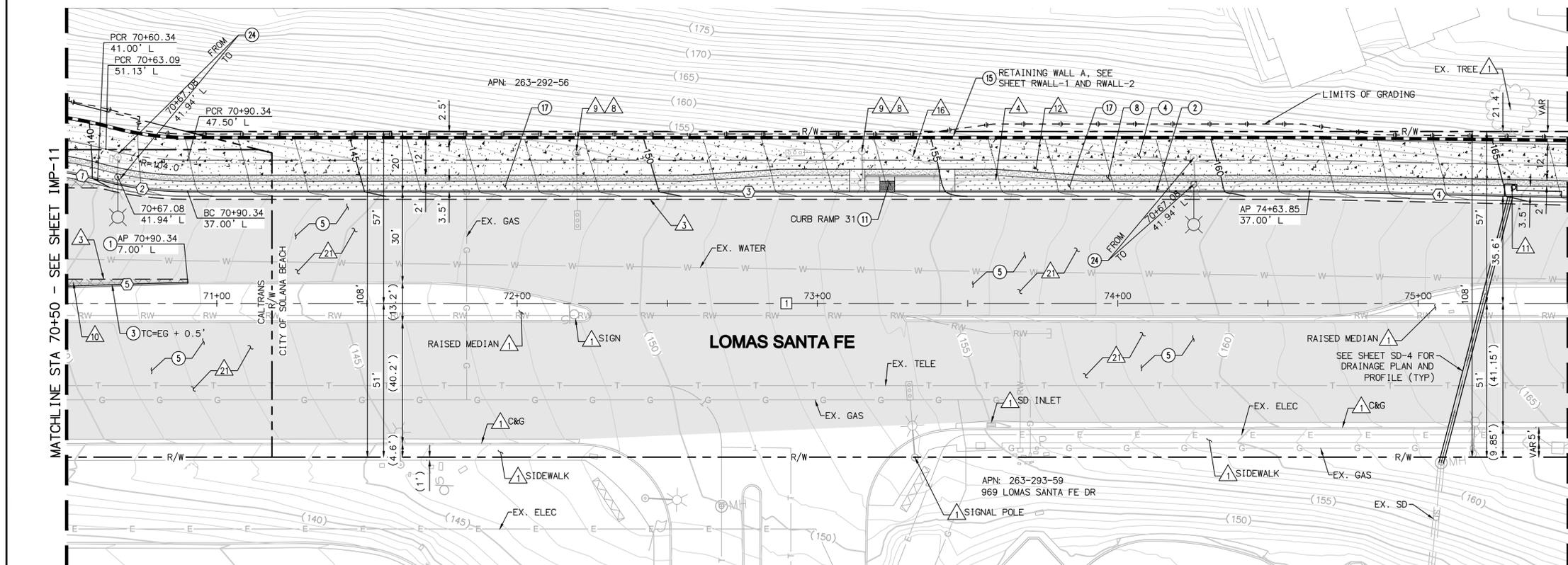
H. SCALE: 1"=20'  
V. SCALE: 1"=4'

**DEMOLITION NOTES**

- △ PROTECT IN PLACE
- △ SAWCUT EXISTING PAVEMENT
- △ REMOVE EXISTING CURB AND GUTTER
- △ RELOCATE EXISTING STREET LIGHT PER STREET LIGHTING PLANS
- △ REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
- △ REMOVE EXISTING MEDIAN CURB
- △ REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
- △ REMOVE EXISTING SIDEWALK
- △ REMOVE EXISTING RETAINING WALL
- △ GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

- ① MATCH EXISTING IMPROVEMENTS.
- ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- ③ CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- ⑤ OVERLAY AC PAVEMENT 2"
- ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- ⑪ CONSTRUCT TYPE C CURB RAMP PER SDRSD G-29. SEE DETAILS ON SHEET CN-1 TO CN-6.
- ⑮ CONSTRUCT RETAINING WALL. SEE SHEET RWALL-1 TO RWALL-4 FOR PLAN AND PROFILE.
- ⑰ LANDSCAPE AREA PER LANDSCAPING PLANS.
- ⑳ RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.



LOMAS SANTA FE-PLAN

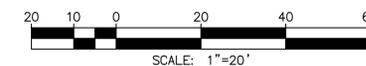
SCALE: 1"=20'

CURB DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	05°18'01"	114.50'	10.59'	6" CURB & GUTTER
2	15°11'21"	114.50'	30.35'	6" CURB & GUTTER
3	N84°43'48"W	---	373.52'	6" CURB & GUTTER
4	N83°27'25"W	---	86.17'	6" CURB & GUTTER
5	N86°38'24"W	---	40.36'	MEDIAN CURB

CENTERLINE DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'48"W	---	500.00'	LOMAS SANTA FE DRIVE

**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



AS-BUILT

**PLAN CODE**

IMP-12

By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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Phone: (760) 476-9193  
mbakerintl.com



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

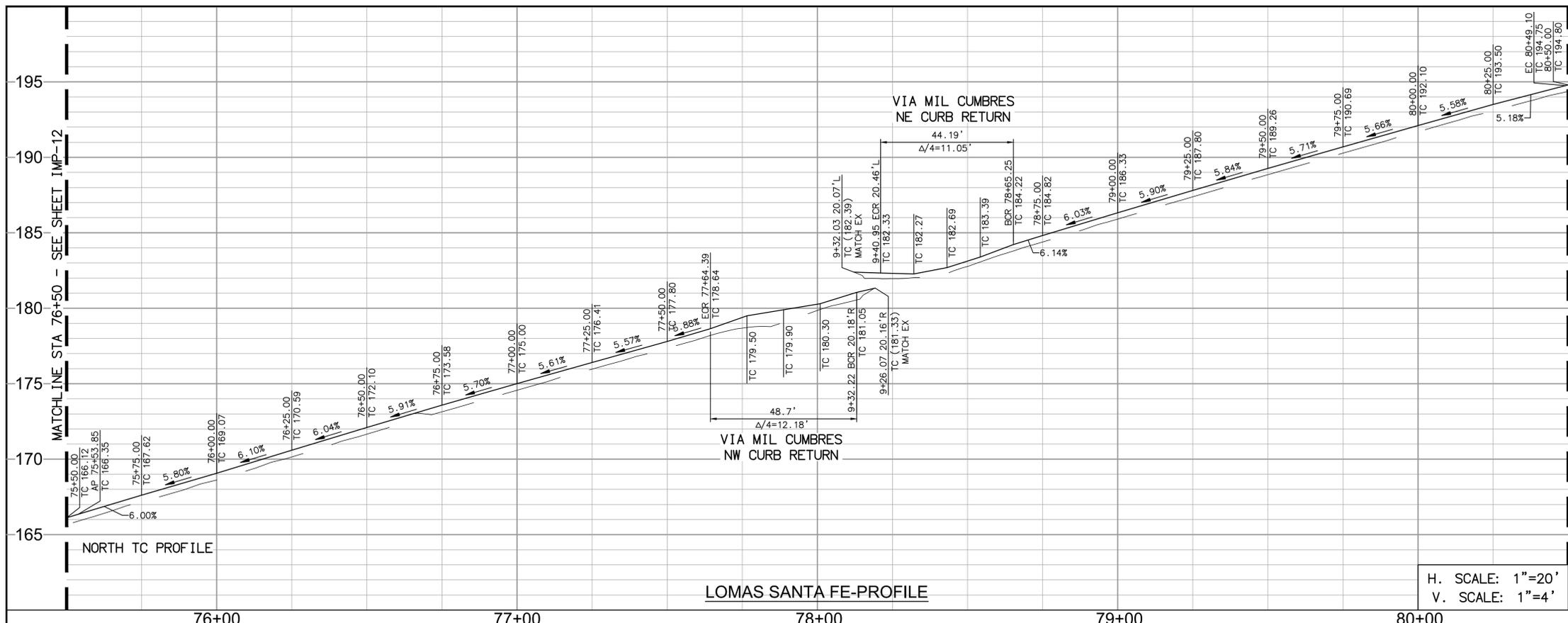
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: IMPROVEMENT PLAN & PROFILE  
LOMAS SANTA FE CORRIDOR

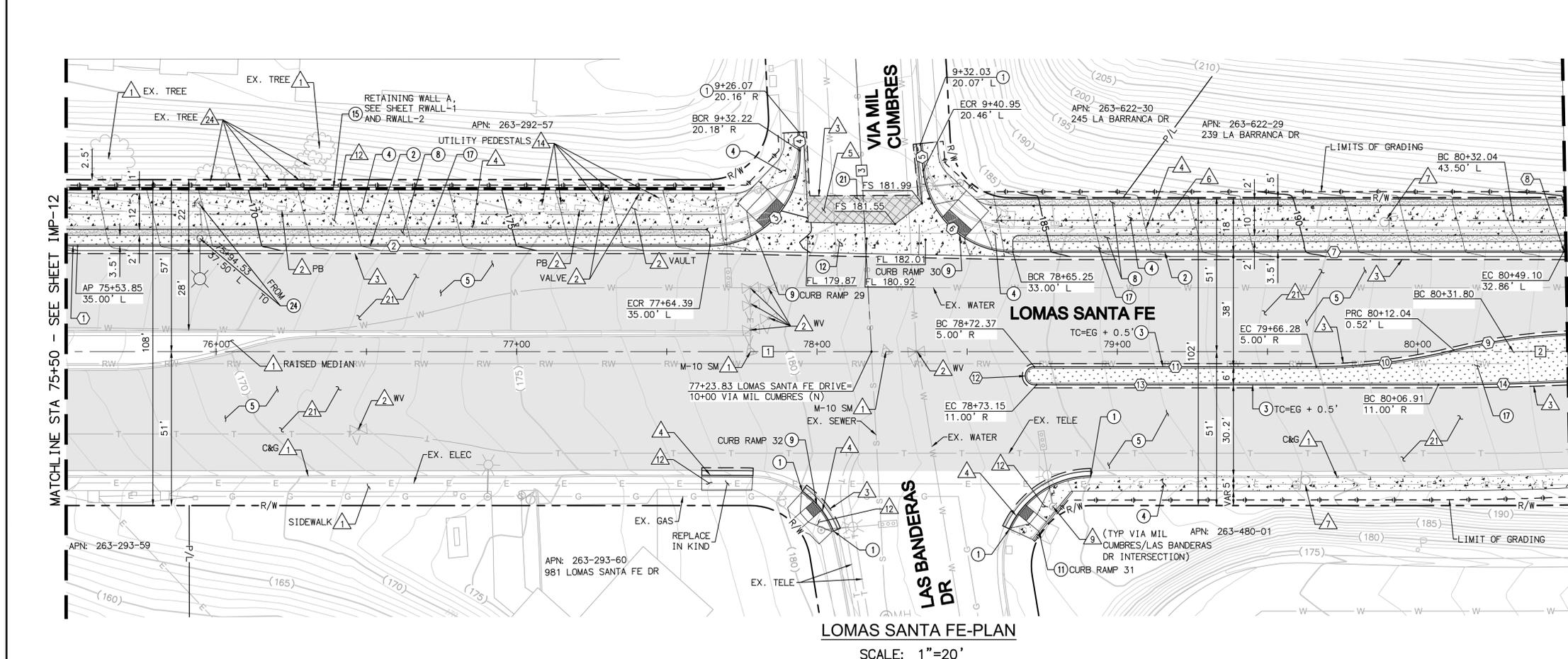
DRAWING NO. **CG-3185**  
Sheet 17 of 73



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING CROSS GUTTER
  - 6 REMOVE EXISTING AC PATH
  - 7 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 8 REMOVE/RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT PER TRAFFIC SIGNAL MODIFICATIONS PLANS
  - 9 REMOVE EXISTING SIDEWALK
  - 10 TO BE RELOCATED BY OTHERS
  - 11 GRIND EXISTING AC PAVEMENT 2"
  - 12 REMOVE EXISTING TREE

- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 7 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 8 CONSTRUCT TYPE C CURB RAMP PER SDRSD G-29. SEE DETAILS ON SHEET CN-1 TO CN-6.
  - 9 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 10 CONSTRUCT RETAINING WALL. SEE SHEET RWALL-1 TO RWALL-4 FOR PLAN AND PROFILE.
  - 11 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 12 CONSTRUCT 12" AC PATCH
  - 13 RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.

H. SCALE: 1"=20'  
V. SCALE: 1"=4'



CURB DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N83°27'25"W	---	3.85'	6" CURB & GUTTER
2	N84°43'48"W	---	210.54'	6" CURB & GUTTER
3	93°00'37"	30.00'	48.70'	6" CURB & GUTTER
4	N02°15'35"E	---	6.16'	6" CURB & GUTTER
5	N00°19'50"W	---	8.93'	6" CURB & GUTTER
6	84°23'58"	30.00'	44.19'	6" CURB & GUTTER
7	N84°43'48"W	---	183.28'	6" CURB & GUTTER
8	00°03'00"	1000.00'	0.87'	6" CURB & GUTTER
9	11°23'56"	192.50'	38.30'	MEDIAN CURB
10	13°45'04"	192.50'	46.20'	MEDIAN CURB
11	N84°43'48"W	---	93.91'	MEDIAN CURB
12	180°00'00"	3.00'	9.42'	MEDIAN CURB
13	N84°43'48"W	---	134.54'	MEDIAN CURB
14	02°33'26"	970.00'	43.29'	MEDIAN CURB

CENTERLINE DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'48"W	---	481.80'	LOMAS SANTA FE DR
2	01°02'34"	1000.00'	18.20'	LOMAS SANTA FE DR
3	N02°09'09"E	---	97.20'	VIA MIL CUMBRES

### PAVEMENT LEGEND

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



AS-BUILT  
**PLAN CODE**  
 IMP-13  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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 MBIKERINTL.COM

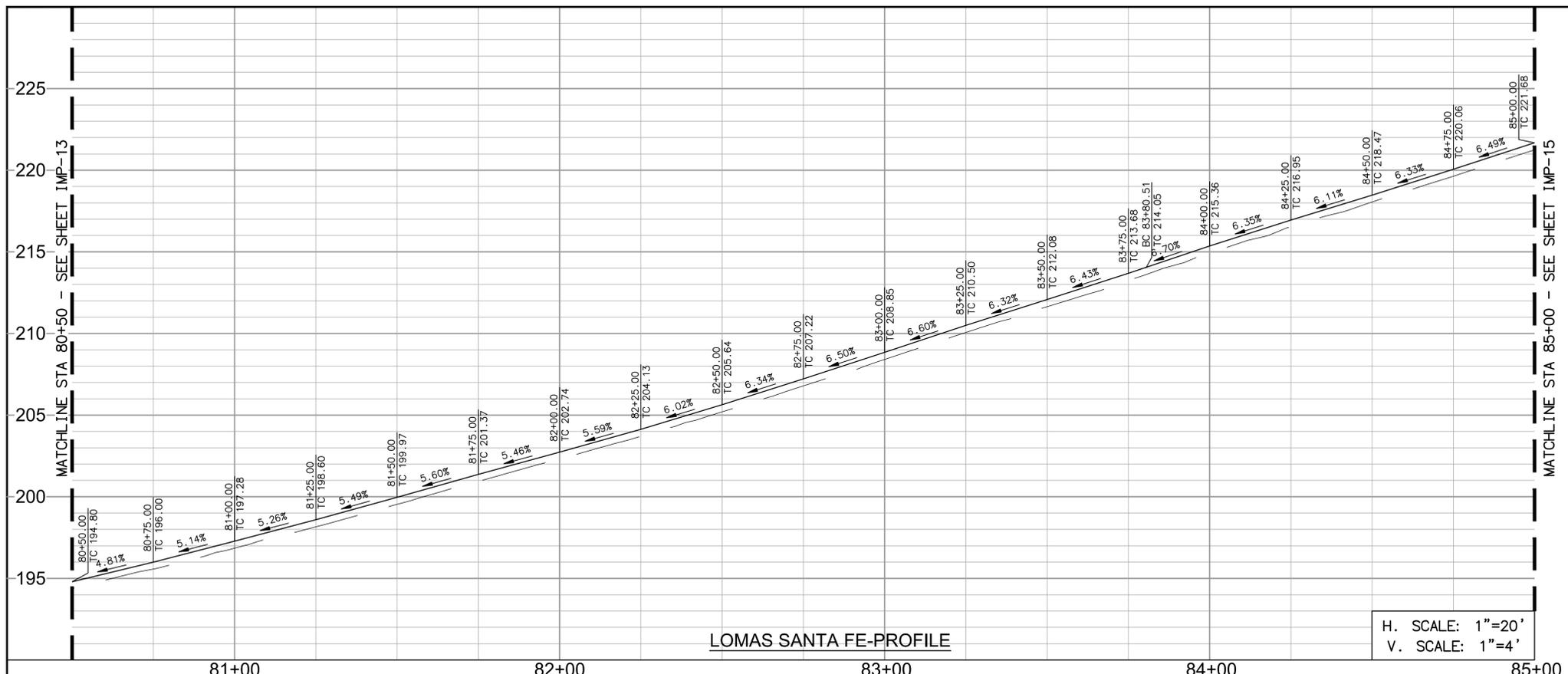


ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE
JOSH C. STONE RCE 60755			

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: _____ Date: _____	By: _____ Date: _____
By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22

BENCH MARK	DESCRIPTION:	ELEV.:	DATUM: M.S.L.
	LOCATION:		

**CITY OF SOLANA BEACH**  
 ENGINEERING DEPARTMENT  
 IMPROVEMENT PLANS FOR:  
**LOMAS SANTA FE CORRIDOR**  
 IMPROVEMENT PLAN & PROFILE  
**CG-3185**  
 Sheet 18 of 73

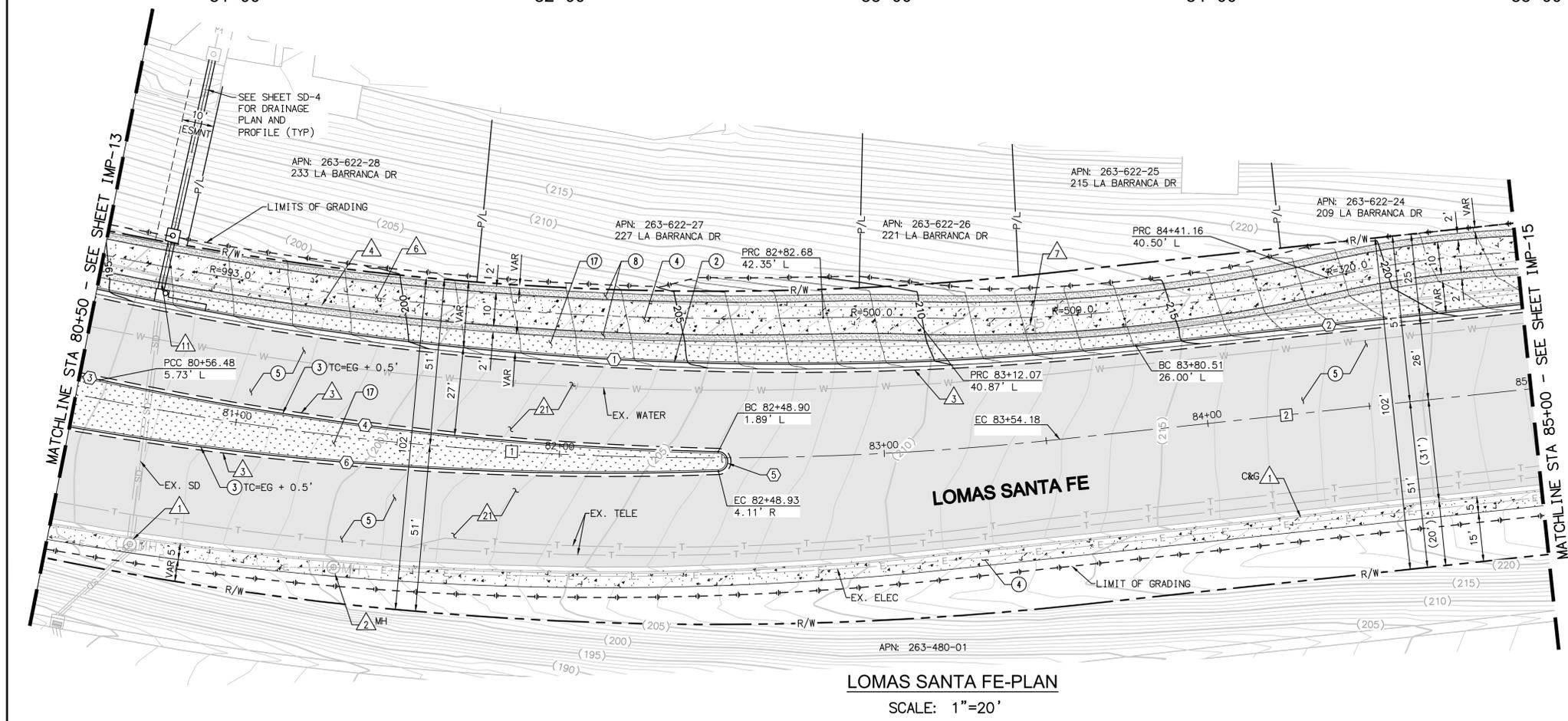


**DEMOLITION NOTES**

- ▲ PROTECT IN PLACE
- ▲ ADJUST TO FINISH GRADE
- ▲ SAWCUT EXISTING PAVEMENT
- ▲ REMOVE EXISTING CURB AND GUTTER
- ▲ REMOVE EXISTING AC PATH
- ▲ RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
- ▲ REMOVE EXISTING CURB INLET. SEE DRAINAGE PLANS FOR NEW LOCATION.
- ▲ GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

- ② CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- ③ CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- ⑤ OVERLAY AC PAVEMENT 2"
- ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- ⑩ LANDSCAPE AREA PER LANDSCAPING PLANS.



NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	18°25'16"	1000.00'	321.51'	6" CURB & GUTTER
2	N76°47'56"E	--	119.49'	6" CURB & GUTTER
3	01°55'01"	192.50'	6.44'	MEDIAN CURB
4	10°41'43"	1027.00'	191.71'	MEDIAN CURB
5	176°43'55"	3.00'	9.25'	MEDIAN CURB
6	11°50'29"	970.00'	200.47'	MEDIAN CURB

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	17°45'08"	1000.00'	309.83'	LOMAS SANTA FE DR
2	N76°47'56"E	--	140.17'	LOMAS SANTA FE DR

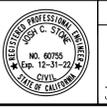
**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



AS-BUILT  
 PLAN CODE By: \_\_\_\_\_ Date: \_\_\_\_\_  
 IMP-14 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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 MBAKERINTL.COM



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

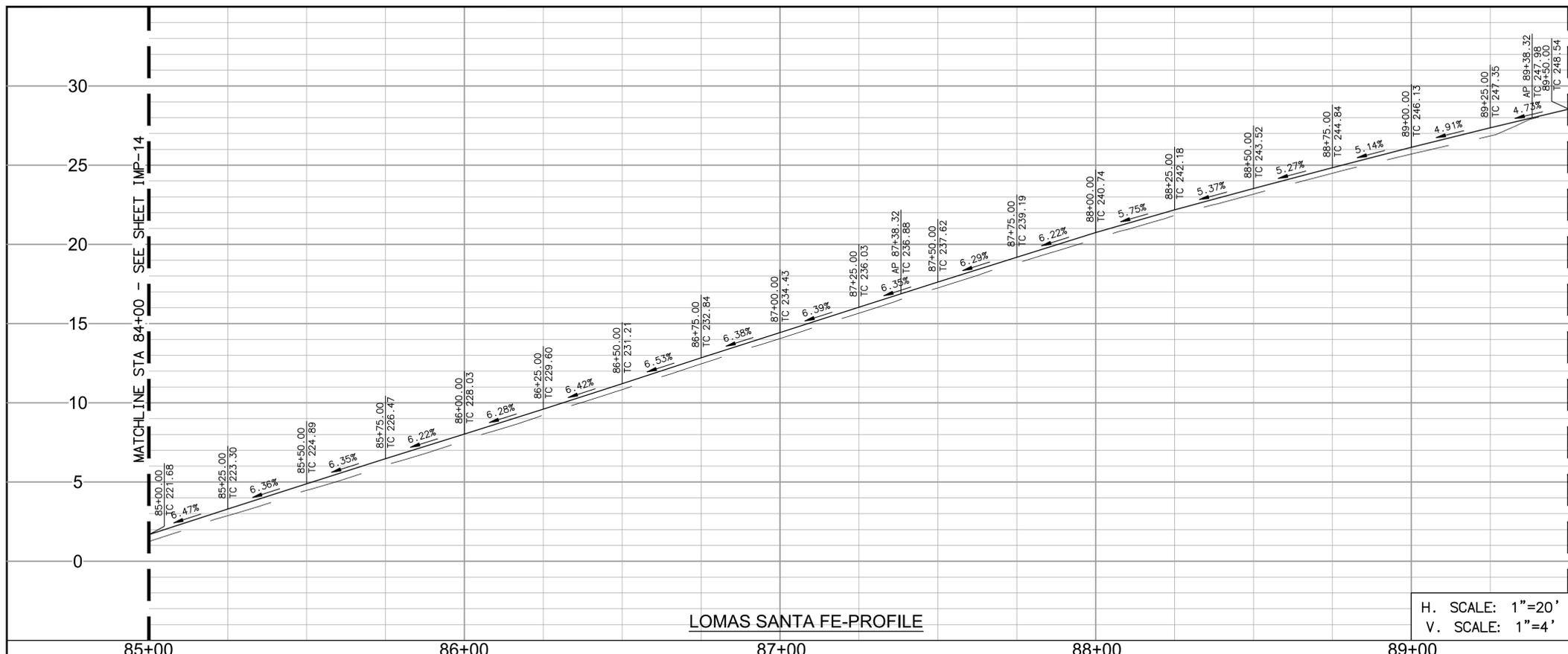
RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
 IMPROVEMENT PLANS FOR: IMPROVEMENT PLAN & PROFILE  
**LOMAS SANTA FE CORRIDOR**

DRAWING NO. **CG-3185**  
 Sheet 19 of 73

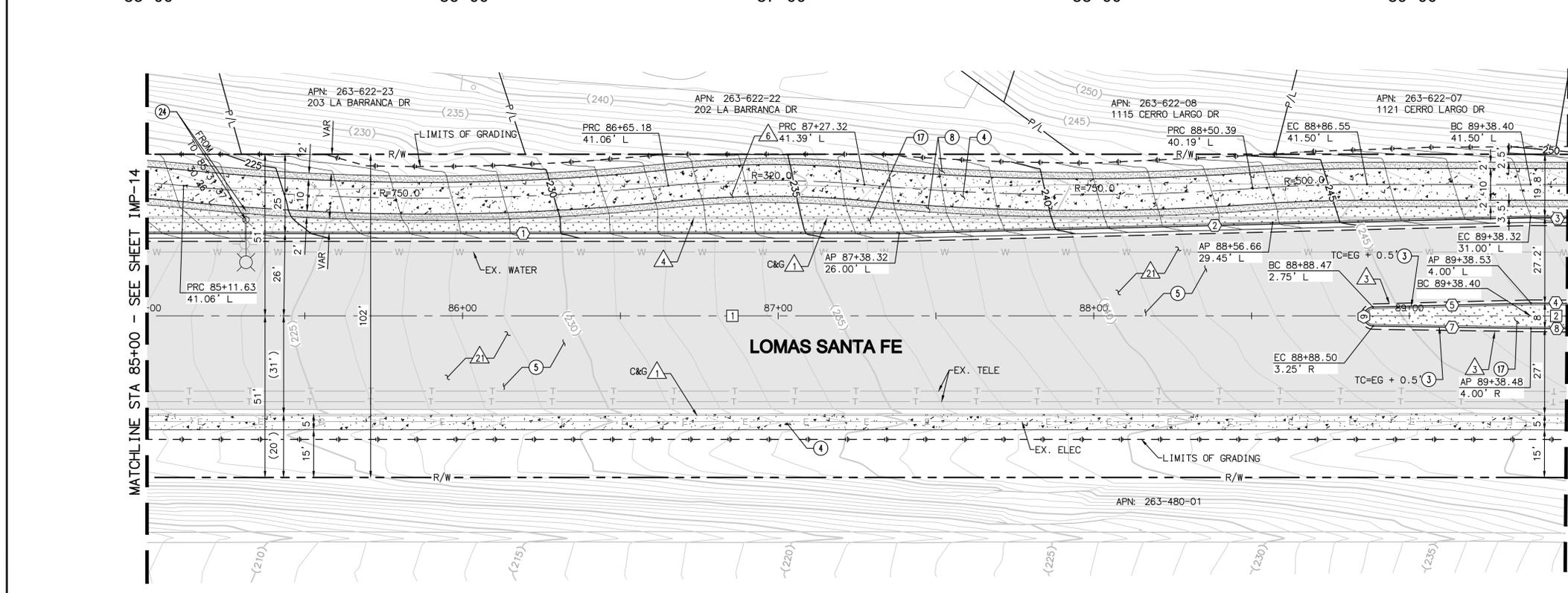


**DEMOLITION NOTES**

- ① PROTECT IN PLACE
- ② SAWCUT EXISTING PAVEMENT
- ③ REMOVE EXISTING CURB AND GUTTER
- ④ REMOVE EXISTING AC PATH
- ⑤ GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

- ③ CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- ④ CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- ⑤ OVERLAY AC PAVEMENT 2"
- ⑧ CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- ⑩ LANDSCAPE AREA PER LANDSCAPING PLANS.
- ⑫ RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.

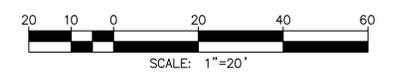


NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N76°47'56"E	--	238.32'	6" CURB & GUTTER
2	N75°22'00"E	--	200.06'	6" CURB & GUTTER
3	00°26'46"	1531.00'	11.92'	6" CURB & GUTTER
4	00°26'17"	1504.00'	11.50'	MEDIAN CURB
5	N75°22'00"E	--	50.08'	MEDIAN CURB
6	177°42'30"	3.00'	9.30'	MEDIAN CURB
7	N77°39'30"E	--	49.98'	MEDIAN CURB
8	00°26'25"	1496.00'	11.50'	MEDIAN CURB

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N76°47'56"E	--	438.40'	LOMAS SANTA FE DR
2	00°26'36"	1500.00'	11.61'	LOMAS SANTA FE DR

**PAVEMENT LEGEND**

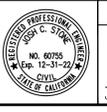
- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
**PLAN CODE**  
 IMP-15  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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 Phone: (760) 476-9193  
 MBAKERINTL.COM



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

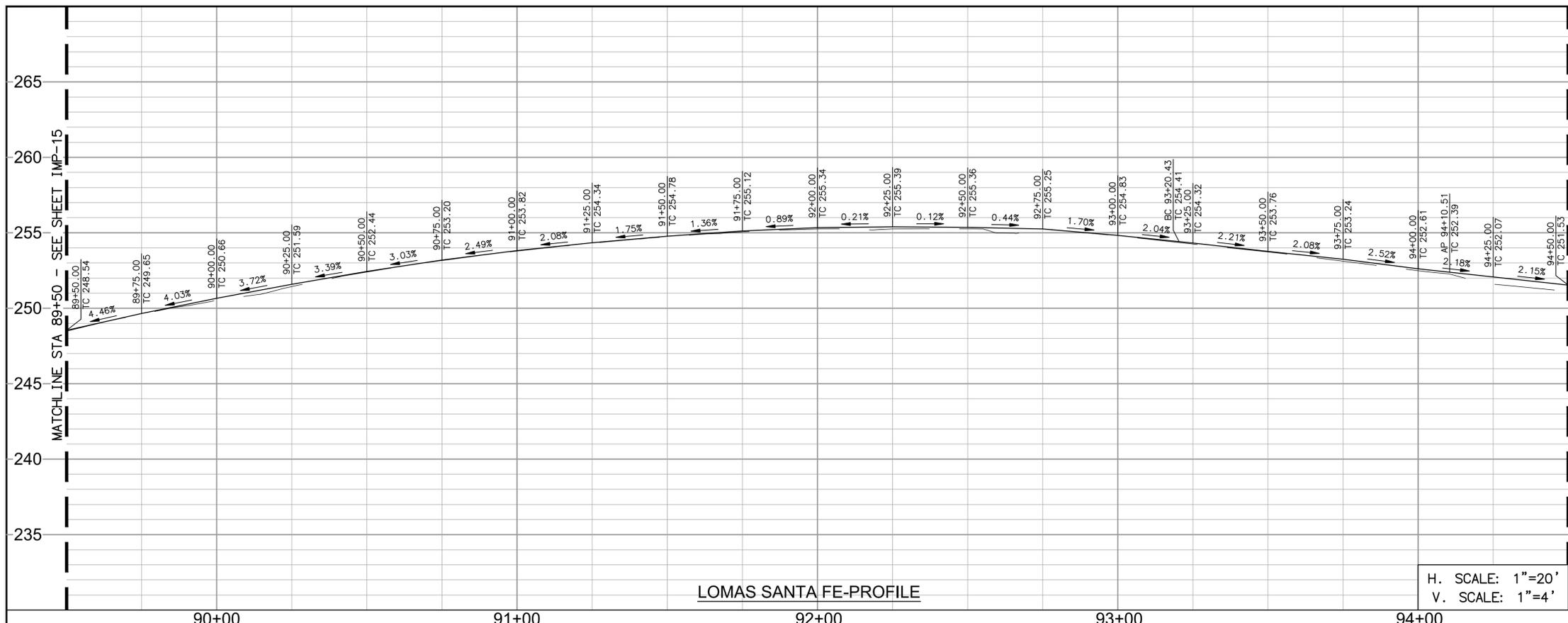
RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 IMPROVEMENT PLAN & PROFILE  
 DRAWING NO.  
**CG-3185**  
 Sheet 20 of 73



LOMAS SANTA FE-PROFILE

H. SCALE: 1"=20'  
V. SCALE: 1"=4'

**DEMOLITION NOTES**

- 1 PROTECT IN PLACE
- 2 ADJUST TO FINISH GRADE
- 3 SAWCUT EXISTING PAVEMENT
- 4 REMOVE EXISTING CURB AND GUTTER
- 5 REMOVE EXISTING AC PATH
- 6 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
- 7 TO BE RELOCATED BY OTHERS
- 8 GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

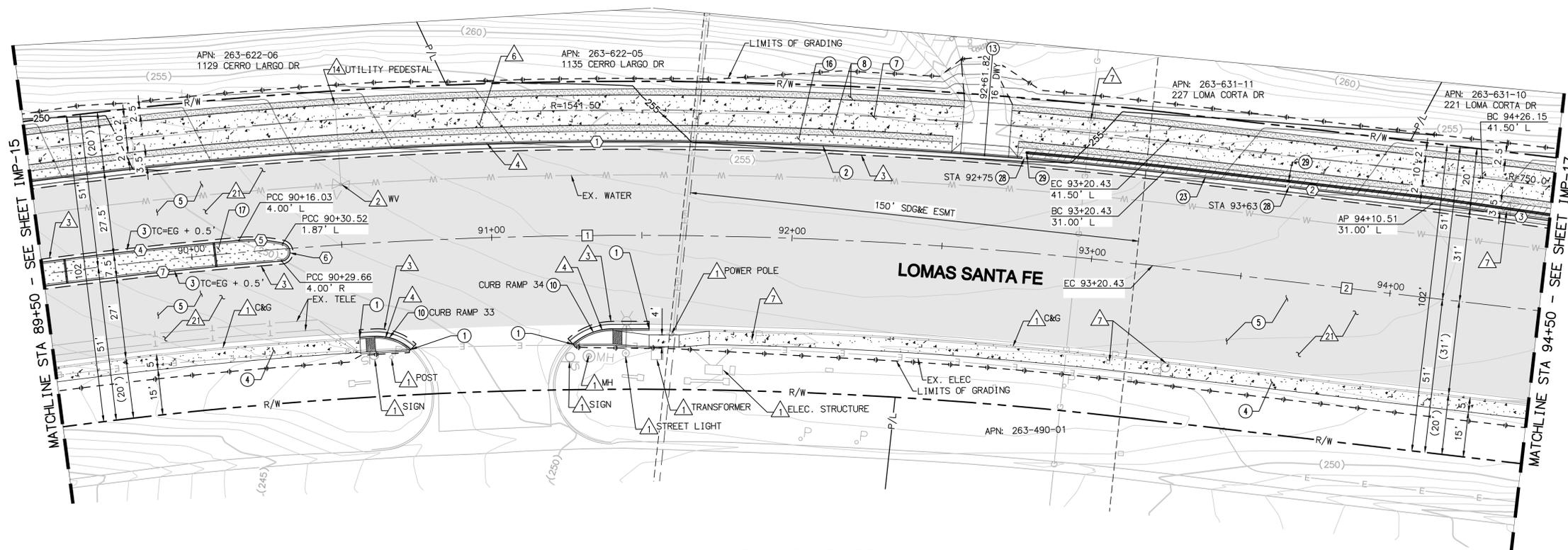
- 1 MATCH EXISTING IMPROVEMENTS.
- 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- 5 OVERLAY AC PAVEMENT 2"
- 7 CONSTRUCT MULTI-USE PATH, 4" PCC OVER NATIVE GROUND.
- 8 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- 10 CONSTRUCT TYPE B DIRECTIONAL CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
- 13 CONSTRUCT TYPE A CONCRETE DRIVEWAY PER SDRSD G14A FOR COMMERCIAL USE. SEE DETAILS ON SHEET CN-7 TO CN-9.
- 16 CONSTRUCT BIOFILTRATION BASIN PER DETAIL 1 AND 3 ON SHEET CD-11.
- 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
- 23 CONSTRUCT MODIFIED 6" CURB AND GUTTER WITH CUTOFF WALL ADJACENT TO BIOFILTRATION BASIN PER DETAIL 2 ON SHEET CD-10
- 28 CURB CUT PER DETAIL 2 ON SHEET CD-11
- 29 INSTALL CLEANOUT PER DETAIL 1 AND 3 ON SHEET CD-11.

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	14°08'58"	1531.00'	378.09'	6" CURB & GUTTER
2	N88°36'30"W	--	90.07'	6" CURB & GUTTER
3	N87°10'35"W	--	39.51'	6" CURB & GUTTER
4	02°31'20"	1504.00'	66.21'	MEDIAN CURB
5	17°13'10"	49.00'	14.73'	MEDIAN CURB
6	163°18'04"	3.00'	8.55'	MEDIAN CURB
7	03°02'34"	1496.00'	79.45'	MEDIAN CURB

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	14°08'58"	1500.00'	370.43'	LOMAS SANTA FE DR
2	N88°36'30"W	--	129.57'	LOMAS SANTA FE DR

**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



LOMAS SANTA FE-PLAN

SCALE: 1"=20'

AS-BUILT

**PLAN CODE**  
IMP-16

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES  
APP'D DATE

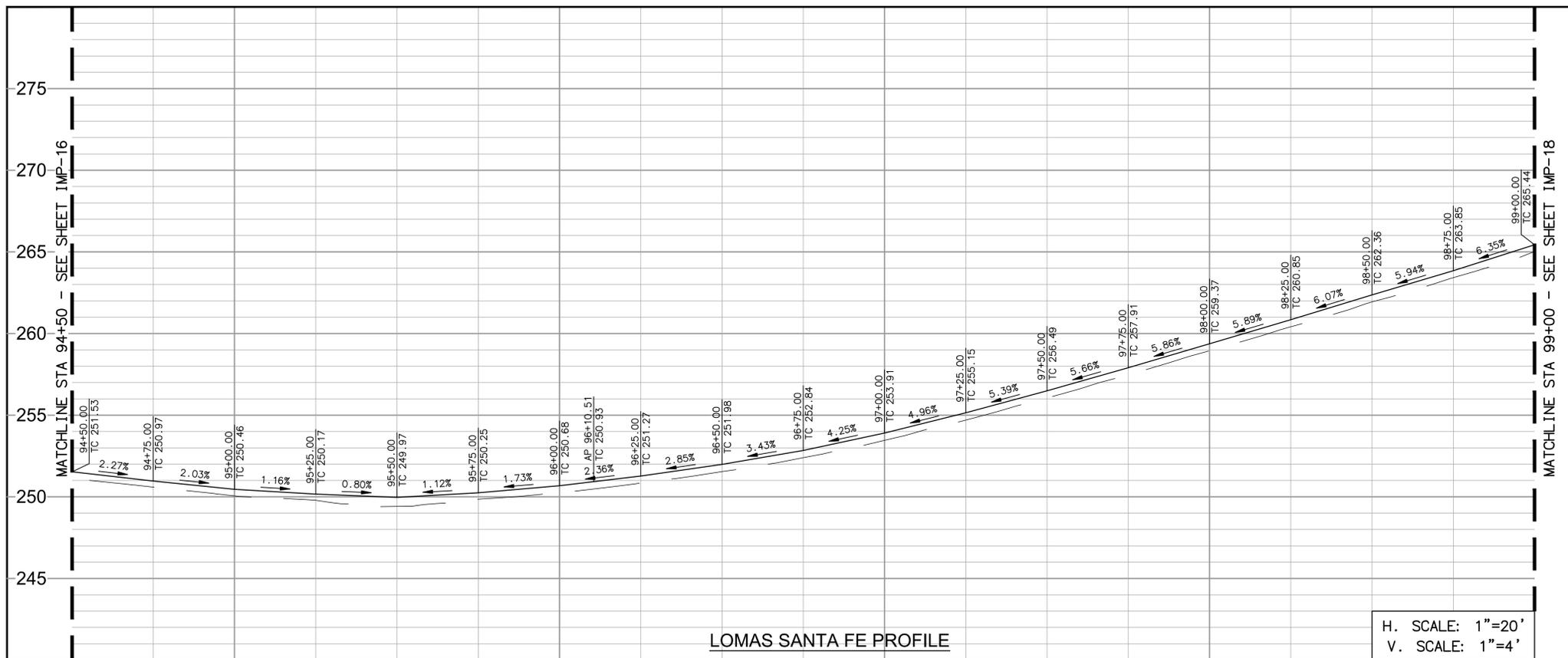
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR IMPROVEMENT PLAN & PROFILE  
DRAWING NO. **CG-3185**  
Sheet 21 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



LOMAS SANTA FE PROFILE

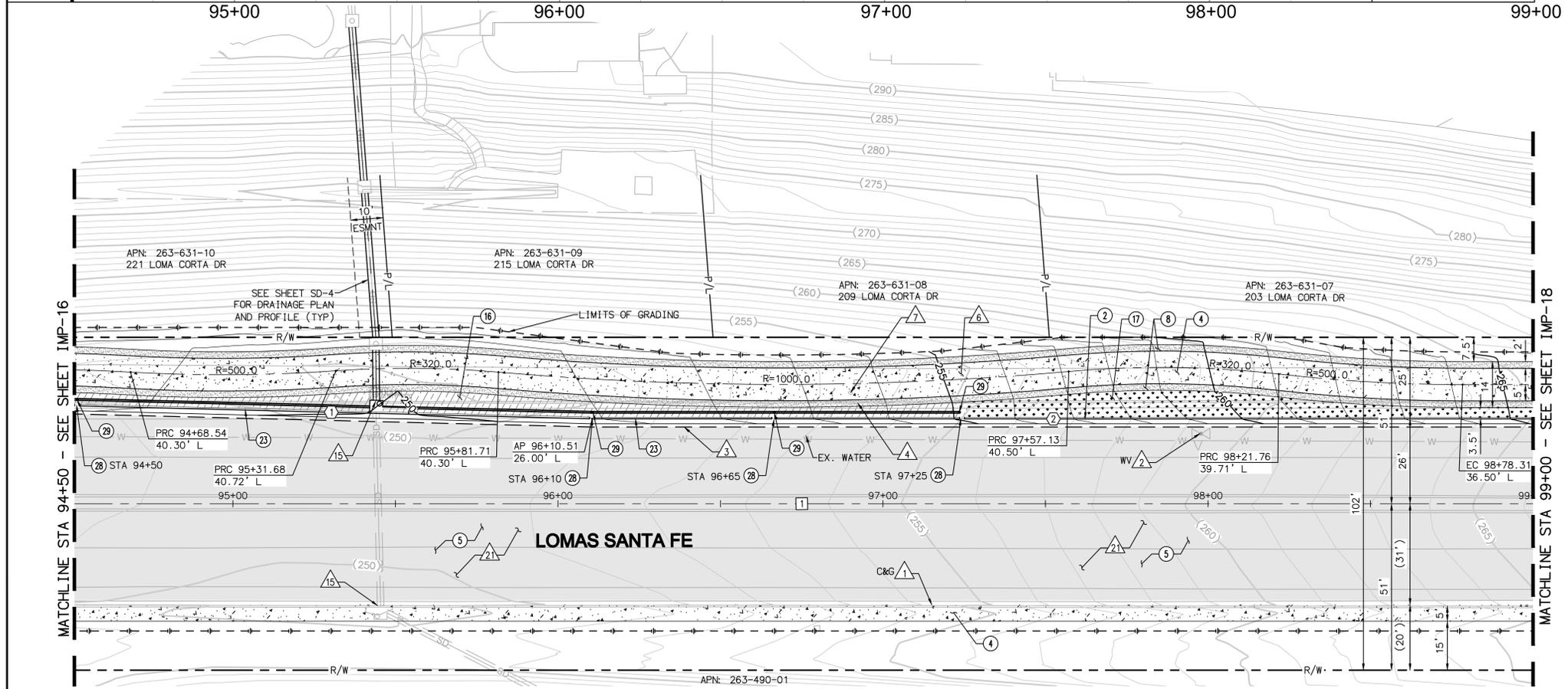
H. SCALE: 1"=20'  
V. SCALE: 1"=4'

- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING AC PATH
  - 6 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 15 REMOVE EXISTING CURB OUTLET
  - 21 GRIND EXISTING AC PAVEMENT 2"

- CONSTRUCTION NOTES**
- 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 8 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 16 CONSTRUCT BIOFILTRATION BASIN PER DETAIL 1 AND 3 ON SHEET CD-11.
  - 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 23 CONSTRUCT MODIFIED 6" CURB AND GUTTER WITH CUTOFF WALL ADJACENT TO BIOFILTRATION BASIN PER DETAIL 2 ON SHEET CD-10
  - 28 CURB CUT PER DETAIL 2 ON SHEET CD-11
  - 29 INSTALL CLEANOUT PER DETAIL 1 AND 3 ON SHEET CD-11.

CURB DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N87°10'35"W	--	160.56'	6" CURB & GUTTER
2	N88°36'30"W	--	289.49'	6" CURB & GUTTER

CENTERLINE DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N88°36'30"W	--	450.00'	LOMAS SANTA FE DR



LOMAS SANTA FE-PLAN

SCALE: 1"=20'

- PAVEMENT LEGEND**
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



AS-BUILT  
**PLAN CODE**  
 IMP-17  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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 MBAKERINTL.COM



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

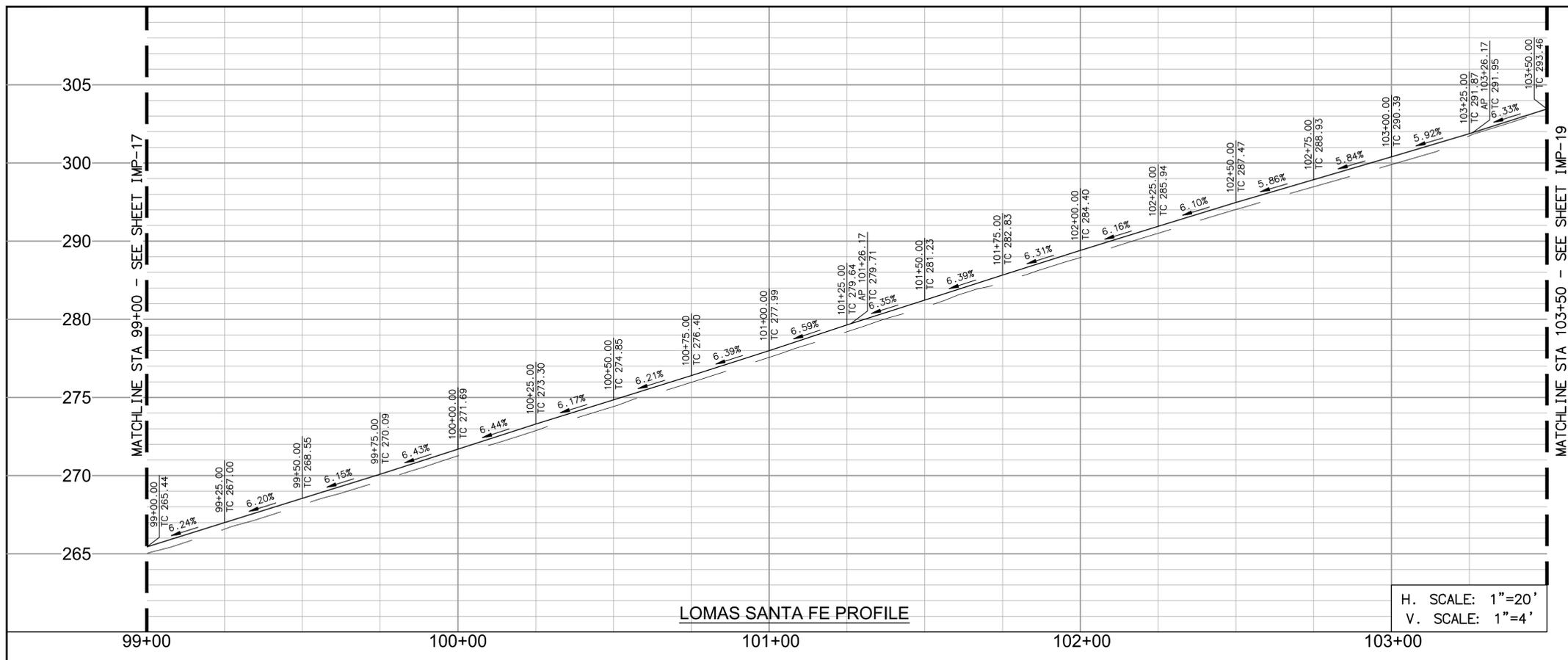
APPROVED FOR CONSTRUCTION  
 By: Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH**  
 IMPROVEMENT PLANS FOR:  
 LOMAS SANTA FE CORRIDOR  
 ENGINEERING DEPARTMENT  
 IMPROVEMENT PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
 Sheet 22 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



**DEMOLITION NOTES**

- 1 PROTECT IN PLACE
- 2 SAWCUT EXISTING PAVEMENT
- 3 REMOVE EXISTING CURB AND GUTTER
- 4 REMOVE EXISTING AC PATH
- 5 GRIND EXISTING AC PAVEMENT 2"

**CONSTRUCTION NOTES**

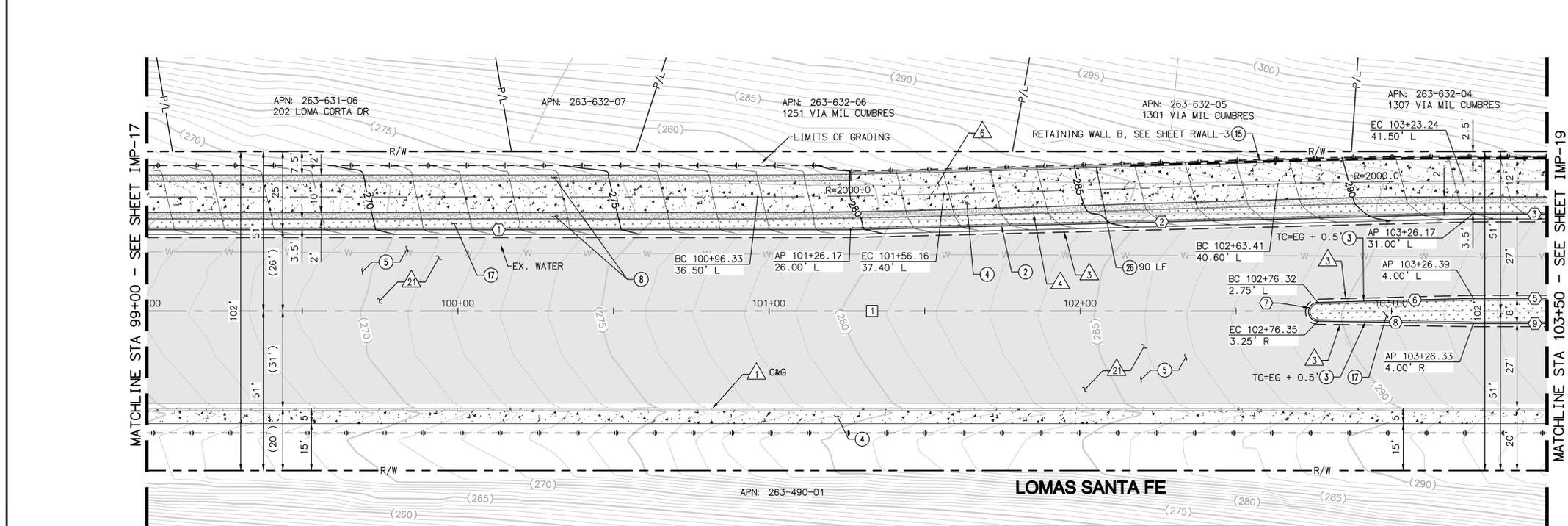
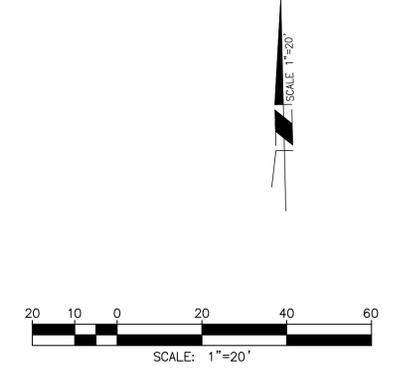
- 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
- 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
- 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
- 5 OVERLAY AC PAVEMENT 2"
- 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
- 15 CONSTRUCT RETAINING WALL. SEE SHEET RWALL-1 TO RWALL-4 FOR PLAN AND PROFILE.
- 17 LANDSCAPE AREA PER LANDSCAPING PLANS.
- 26 CONSTRUCT 8" STEM CURB PER DETAIL 1 ON SHEET CD-10

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N88°36'30"W	---	226.17'	6" CURB & GUTTER
2	N89°57'34"E	---	200.06'	6" CURB & GUTTER
3	N88°36'30"W	---	23.83'	6" CURB & GUTTER
5	N88°36'30"W	---	23.61'	MEDIAN CURB
6	N89°57'34"E	---	50.08'	MEDIAN CURB
7	177°42'30"	3.00'	9.30'	MEDIAN CURB
8	N87°44'56"W	---	49.98'	MEDIAN CURB
9	N88°36'30"W	---	23.67'	MEDIAN CURB

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N88°36'30"W	---	450.00'	LOMAS SANTA FE DR

**PAVEMENT LEGEND**

- 2" AC GRIND & OVERLAY
- 12" AC PATCH
- BUS PAD 9" PCC/6" CTB
- 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
**PLAN CODE**  
 IMP-18  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

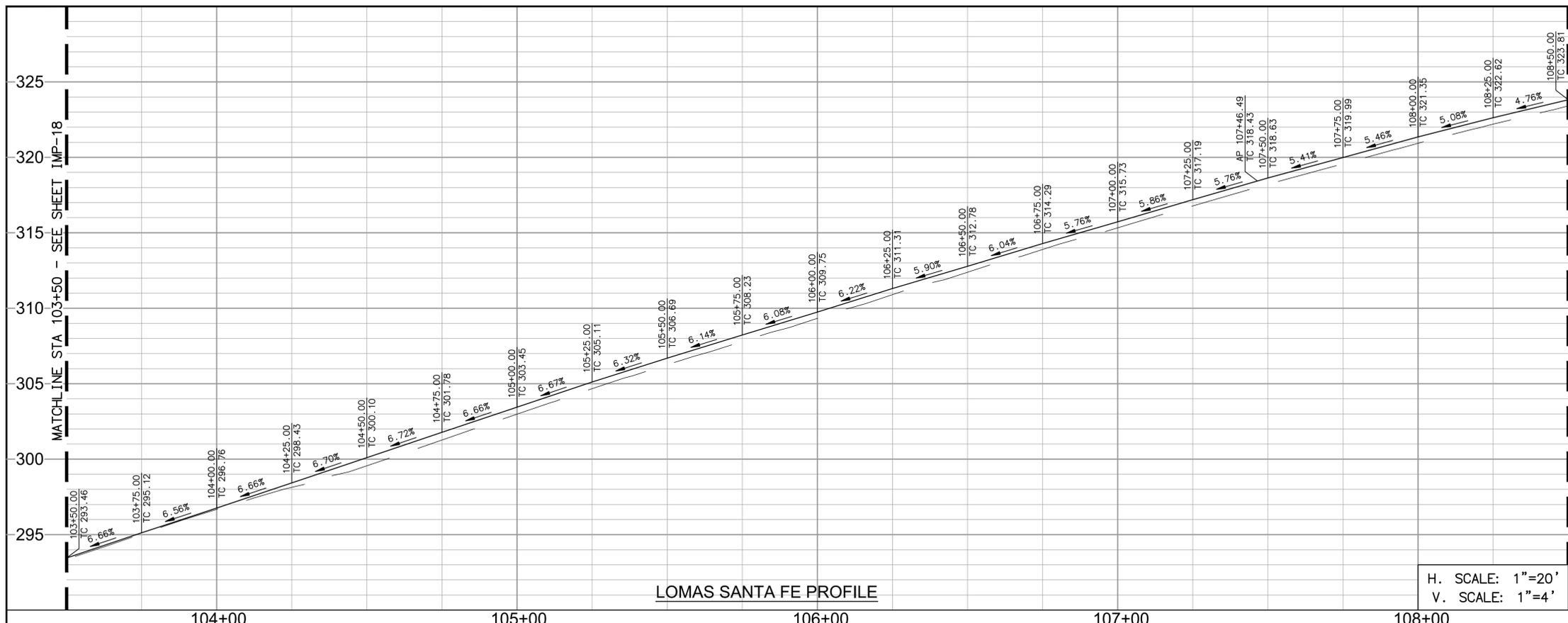
RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 IMPROVEMENT PLAN & PROFILE  
 DRAWING NO.  
**CG-3185**  
 Sheet 23 of 73



- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
  - 2 SAWCUT EXISTING PAVEMENT
  - 3 REMOVE EXISTING CURB AND GUTTER
  - 4 REMOVE EXISTING AC PATH
  - 5 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 6 GRIND EXISTING AC PAVEMENT 2"

- CONSTRUCTION NOTES**
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 7 CONSTRUCT TYPE B DIRECTIONAL CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 8 CONSTRUCT RETAINING WALL. SEE SHEET RWALL-1 TO RWALL-4 FOR PLAN AND PROFILE.
  - 9 LANDSCAPE AREA PER LANDSCAPING PLANS.

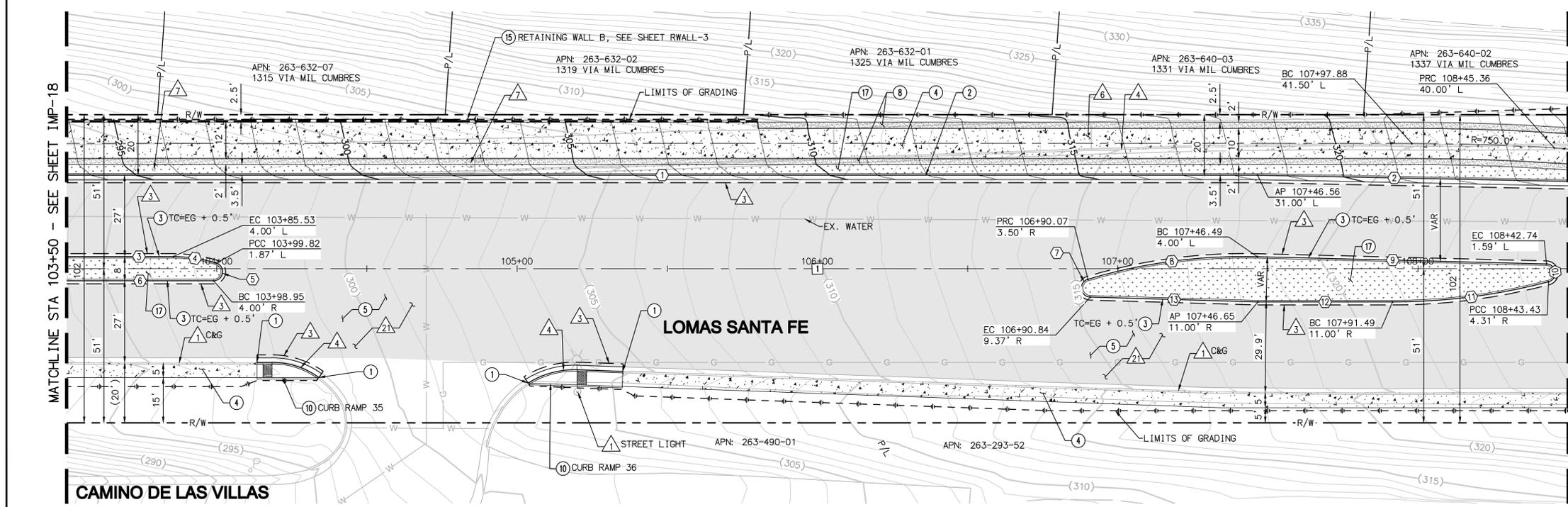
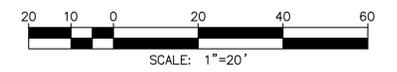
**CURB DATA TABLE**

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N88°36'30"W	---	396.56'	6" CURB & GUTTER
2	N87°27'44"W	---	103.46'	6" CURB & GUTTER
3	N88°36'30"W	---	35.53'	MEDIAN CURB
4	16°57'27"	49.00'	14.50'	MEDIAN CURB
5	163°02'33"	3.00'	8.54'	MEDIAN CURB
6	N88°36'30"W	---	48.95'	MEDIAN CURB
7	161°45'54"	3.00'	8.47'	MEDIAN CURB
8	17°59'47"	181.96'	57.15'	MEDIAN CURB
9	N87°10'35"W	---	96.28'	MEDIAN CURB
10	163°53'28"	3.00'	8.58'	MEDIAN CURB
11	14°40'37"	205.00'	52.51'	MEDIAN CURB
12	N88°36'30"W	---	44.84'	MEDIAN CURB
13	N86°56'16"W	---	55.84'	MEDIAN CURB

**CENTERLINE DATA TABLE**

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N88°36'30"W	---	500.00'	LOMAS SANTA FE DR

- PAVEMENT LEGEND**
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT

**PLAN CODE**  
IMP-19

**Michael Baker INTERNATIONAL**  
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ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES  
APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

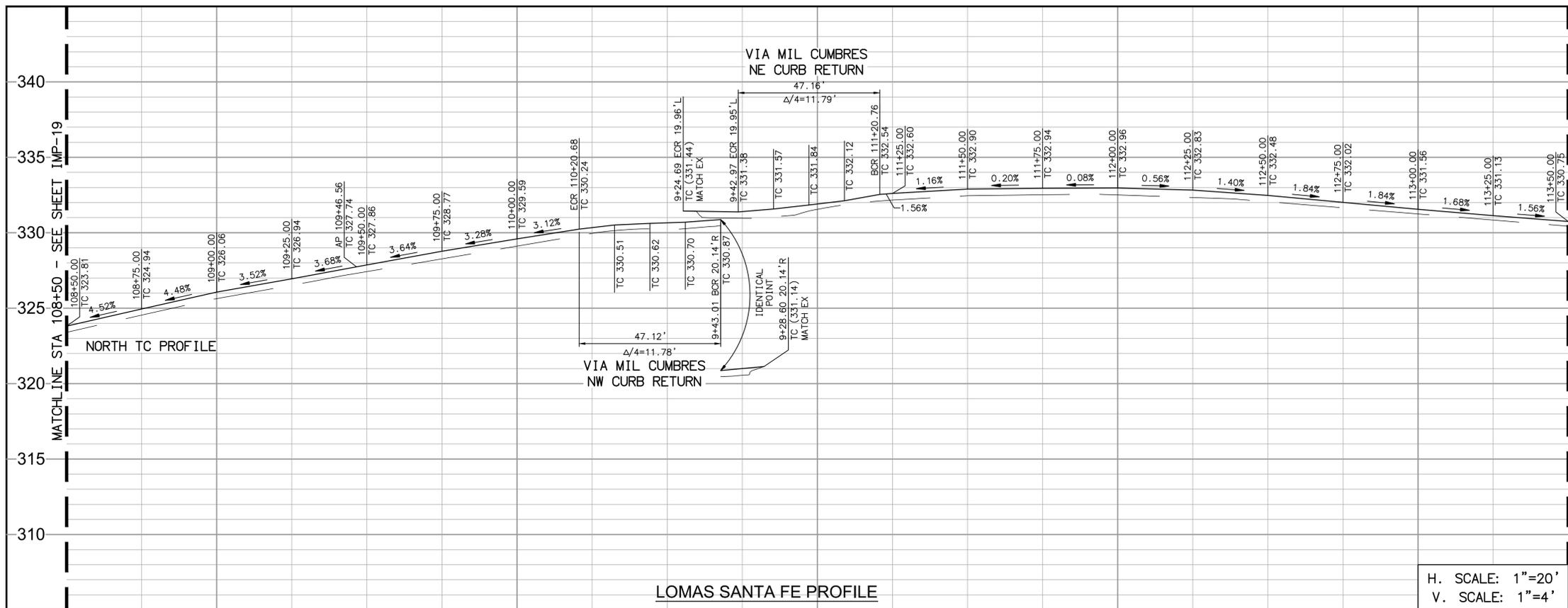
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DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE  
DRAWING NO.  
**CG-3185**  
Sheet 24 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

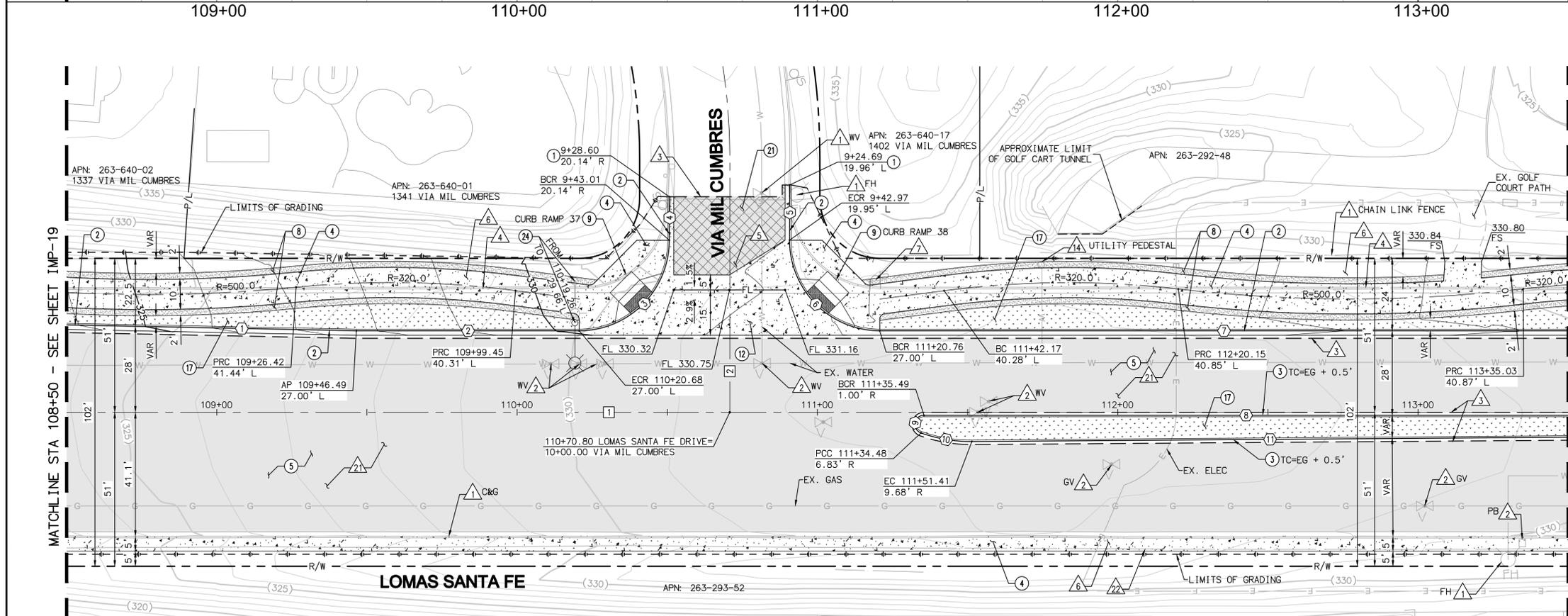
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- ### DEMOLITION NOTES
- 1 PROTECT IN PLACE
  - 2 ADJUST TO FINISH GRADE
  - 3 SAWCUT EXISTING PAVEMENT
  - 4 REMOVE EXISTING CURB AND GUTTER
  - 5 REMOVE EXISTING CROSS GUTTER
  - 6 REMOVE EXISTING AC PATH
  - 7 RELOCATE EXISTING SIGN PER SIGNING AND STRIPING PLANS
  - 8 TO BE RELOCATED BY OTHERS
  - 9 GRIND EXISTING AC PAVEMENT 2"
  - 10 RELOCATE EXISTING WOOD FENCE TO BACK OF PROPOSED SIDEWALK

- ### CONSTRUCTION NOTES
- 1 MATCH EXISTING IMPROVEMENTS.
  - 2 CONSTRUCT TYPE G 6" CURB AND GUTTER PER SDRSD G-2.
  - 3 CONSTRUCT TYPE B-1 MEDIAN CURB PER SDRSD G-6.
  - 4 CONSTRUCT PCC SIDEWALK PER SDRSD G-7
  - 5 OVERLAY AC PAVEMENT 2"
  - 6 CONSTRUCT 4" STABILIZED DECOMPOSED GRANITE SHOULDER.
  - 7 CONSTRUCT TYPE A CURB RAMP PER SDRSD G-27. SEE DETAILS ON SHEETS CN-1 TO CN-6.
  - 8 CONSTRUCT CONCRETE CROSS GUTTER PER SDRSD G-12
  - 9 LANDSCAPE AREA PER LANDSCAPING PLANS.
  - 10 CONSTRUCT 12" AC PATCH
  - 11 RELOCATE EXISTING STREET LIGHT PER SDRSD E-01 AND E-02. SPLICE NEW TO EXISTING CONDUCTORS.

H. SCALE: 1"=20'  
V. SCALE: 1"=4'



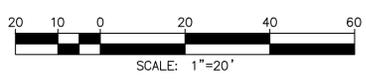
#### CURB DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N87°27'44"W	---	96.51'	6" CURB & GUTTER
2	N88°36'30"W	---	74.44'	6" CURB & GUTTER
3	91°00'08"	30.00'	47.65'	6" CURB & GUTTER
4	N00°23'22"E	---	13.89'	6" CURB & GUTTER
5	N01°27'19"E	---	18.27'	6" CURB & GUTTER
6	90°03'49"	30.00'	47.16'	6" CURB & GUTTER
7	N88°36'30"W	---	229.24'	6" CURB & GUTTER
8	N88°36'30"W	---	214.51'	MEDIAN CURB
9	160°26'42"	3.00'	8.40'	MEDIAN CURB
10	19°58'09"	49.50'	17.25'	MEDIAN CURB
11	N89°01'21"W	---	198.60'	MEDIAN CURB

#### CENTERLINE DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N88°36'30"W	---	500.00'	LOMAS SANTA FE DR
2	N01°24'12"E	---	84.30'	VIA MIL CUMBRES

- ### PAVEMENT LEGEND
- 2" AC GRIND & OVERLAY
  - 12" AC PATCH
  - BUS PAD 9" PCC/6" CTB
  - 4" STABILIZED DECOMPOSED GRANITE SHOULDER



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE IMP-20  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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MBAKERINTL.COM



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

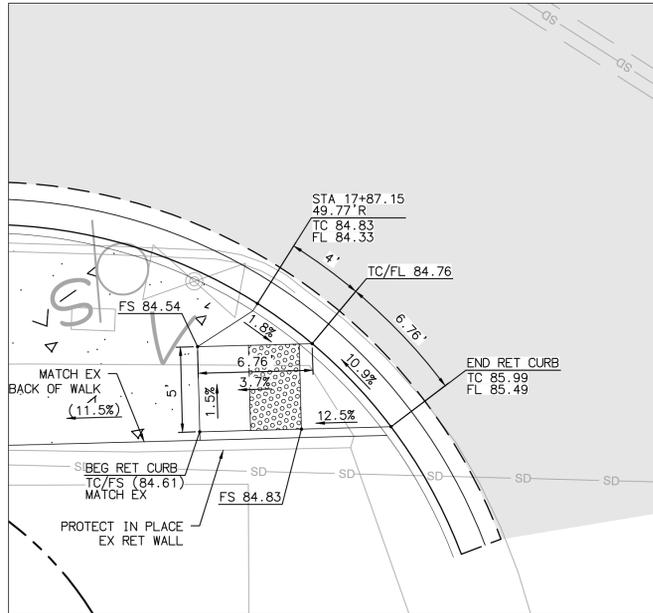
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DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
IMPROVEMENT PLAN & PROFILE  
DRAWING NO. **CG-3185**  
Sheet 25 of 73

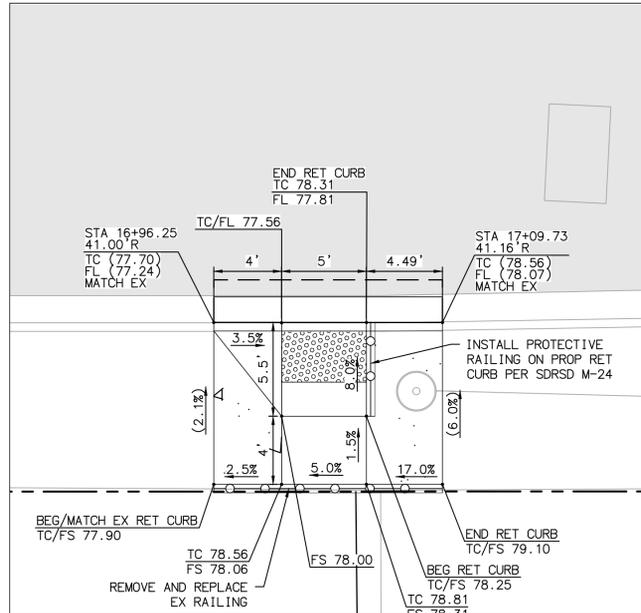






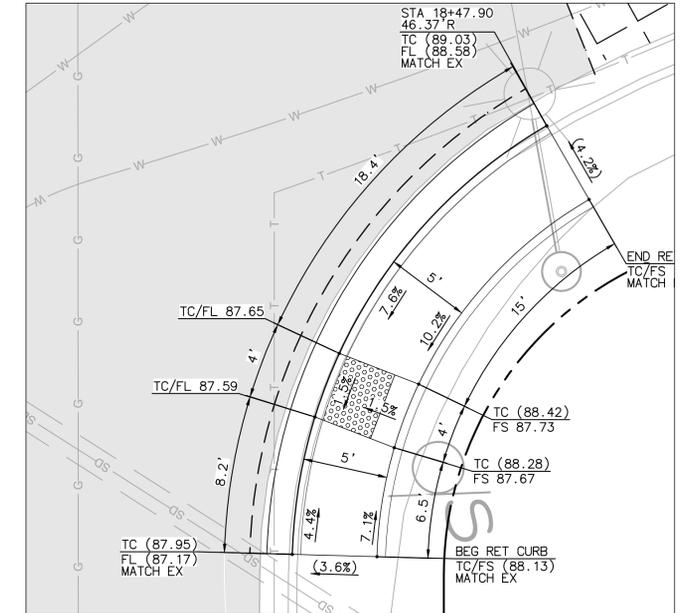
**CURB RAMP 7 (TYPE B)**  
**LOMAS SANTA FE/S RIOS AVE**  
**SW CORNER (SEE SHEET IMP-2)**

SCALE: 1"=5'



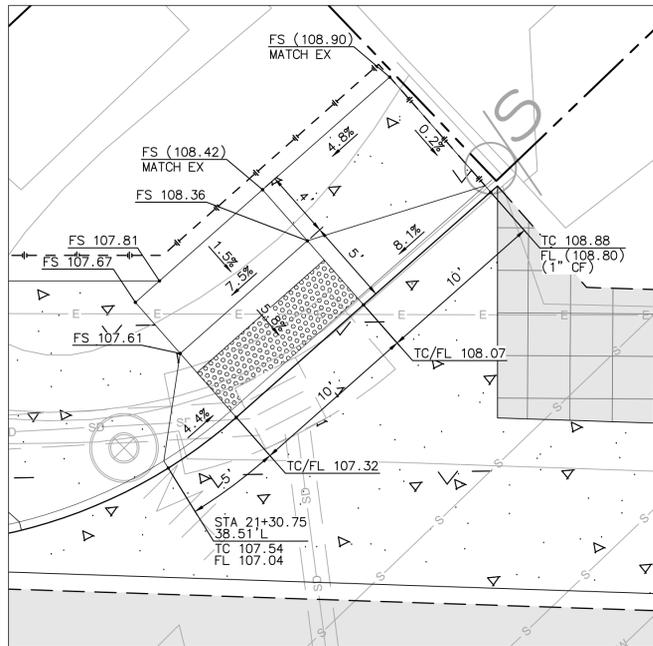
**CURB RAMP 8 (TYPE B)**  
**LOMAS SANTA FE/S RIOS AVE**  
**SW MID-BLOCK (SEE SHEET IMP-2)**

SCALE: 1"=5'



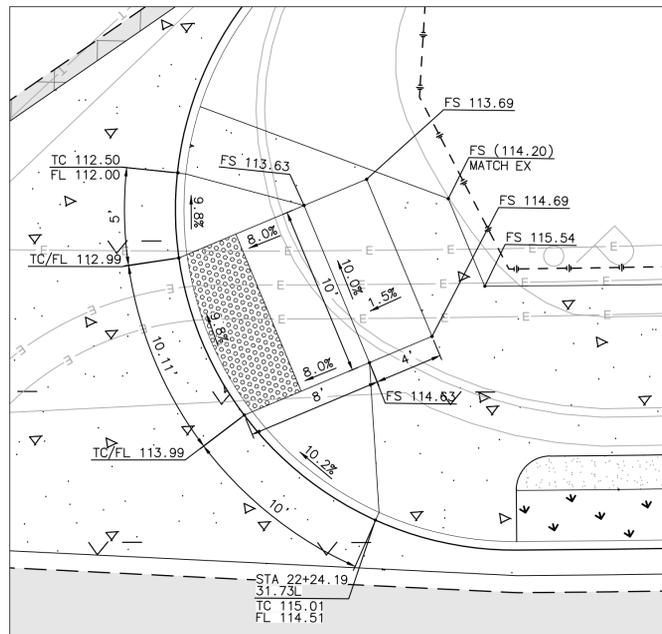
**CURB RAMP 9 (TYPE C)**  
**LOMAS SANTA FE/RIOS AVE**  
**SE CORNER (SEE SHEET IMP-2)**

SCALE: 1"=5'



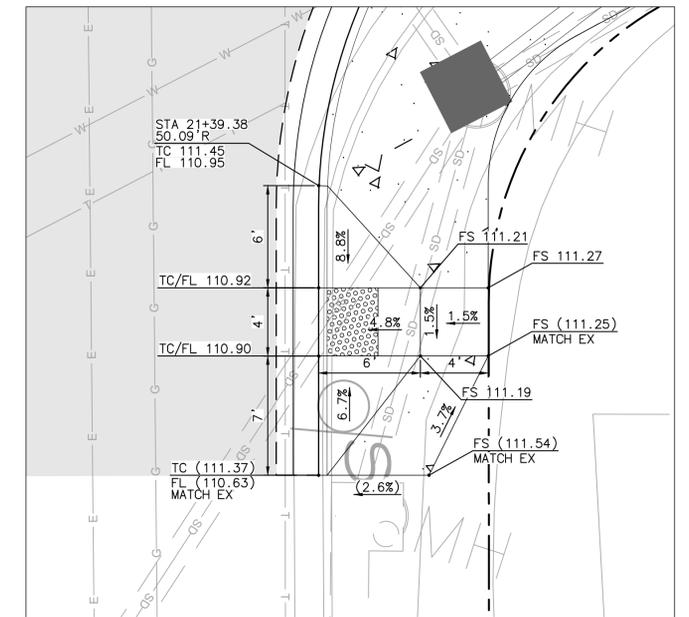
**CURB RAMPS 10 (TYPE A)**  
**LOMAS SANTA FE/GRANADOS AVE**  
**NW CORNER (SEE SHEET IMP-3)**

SCALE: 1"=5'



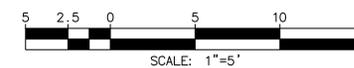
**CURB RAMPS 11 (TYPE A)**  
**LOMAS SANTA FE/GRANADOS AVE**  
**NE CORNER (SEE SHEET IMP-3)**

SCALE: 1"=5'



**CURB RAMPS 12 (TYPE A)**  
**LOMAS SANTA FE/GRANADOS AVE**  
**SE CORNER (SEE SHEET IMP-3)**

SCALE: 1"=5'



**PLAN CODE**  
 CD-2

AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES

APP'D DATE

RECOMMENDED FOR APPROVAL

By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

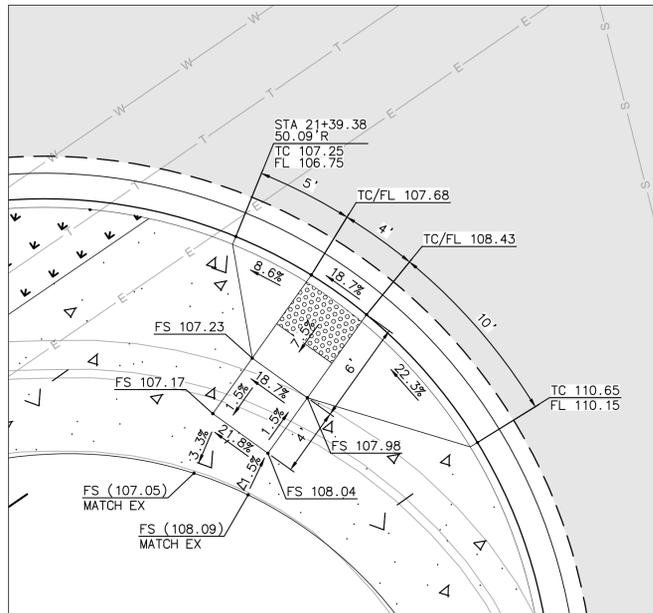
BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 CONSTRUCTION DETAILS

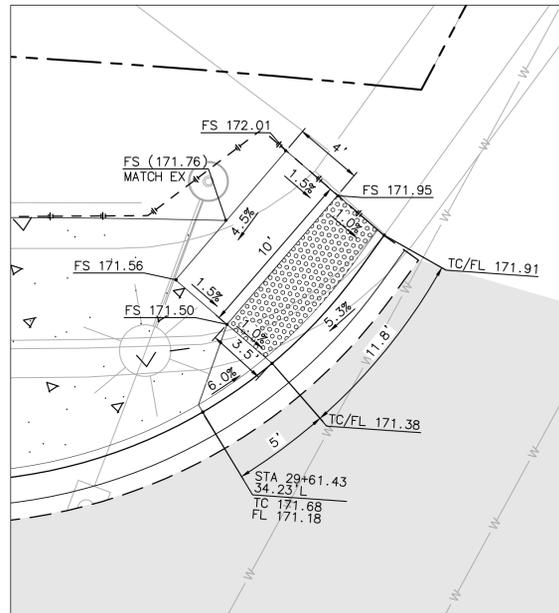
DRAWING NO.  
**CG-3185**  
 Sheet 28 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



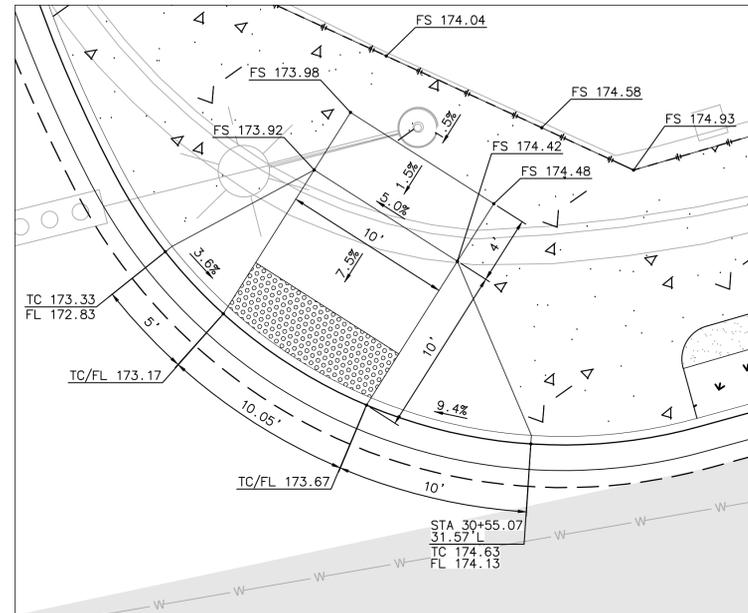
**CURB RAMP 13 (TYPE A)**  
**LOMAS SANTA FE/GRANADOS AVE**  
**SW CORNER (SEE SHEET IMP-3)**

SCALE: 1"=5'



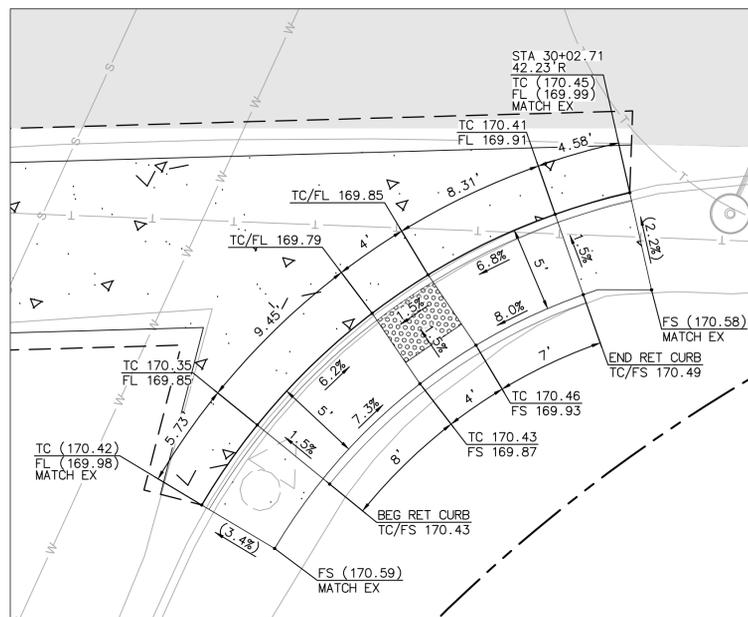
**CURB RAMP 14 (TYPE A)**  
**LOMAS SANTA FE/EL VIENTO ST**  
**NW CORNER (SEE SHEET IMP-5)**

SCALE: 1"=5'



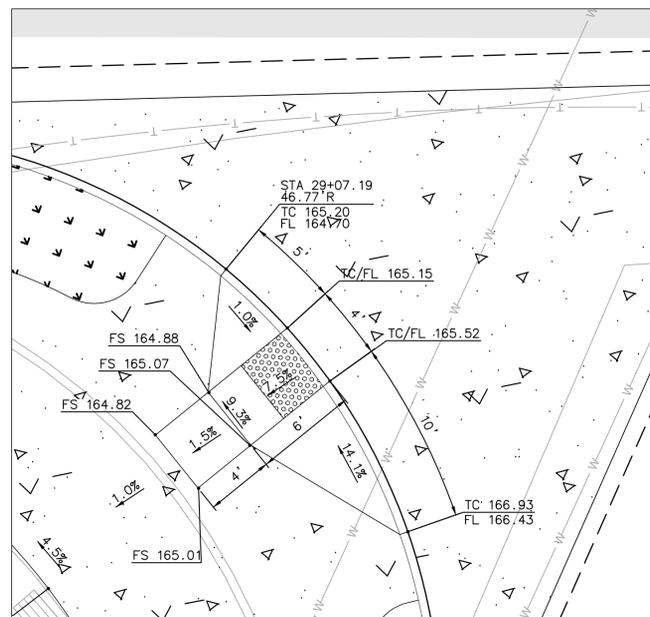
**CURB RAMP 15 (TYPE A)**  
**LOMAS SANTA FE/EL VIENTO ST**  
**NE CORNER (SEE SHEET IMP-5)**

SCALE: 1"=5'



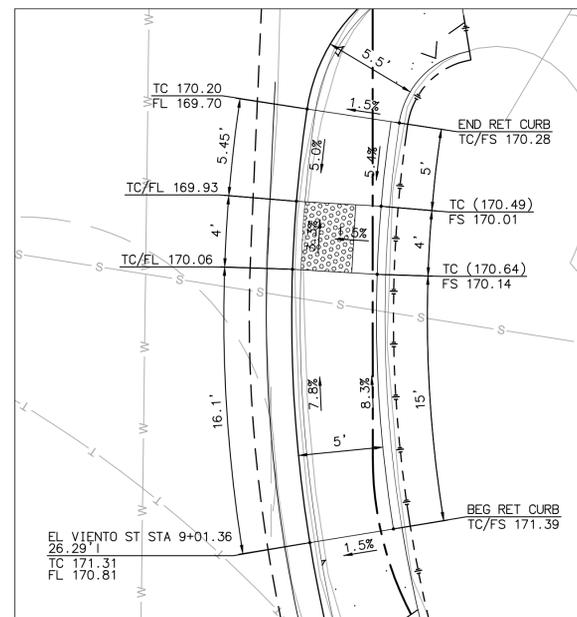
**CURB RAMP 16 (TYPE C)**  
**LOMAS SANTA FE/S NARDO AVE**  
**SE CORNER (SEE SHEET IMP-5)**

SCALE: 1"=5'



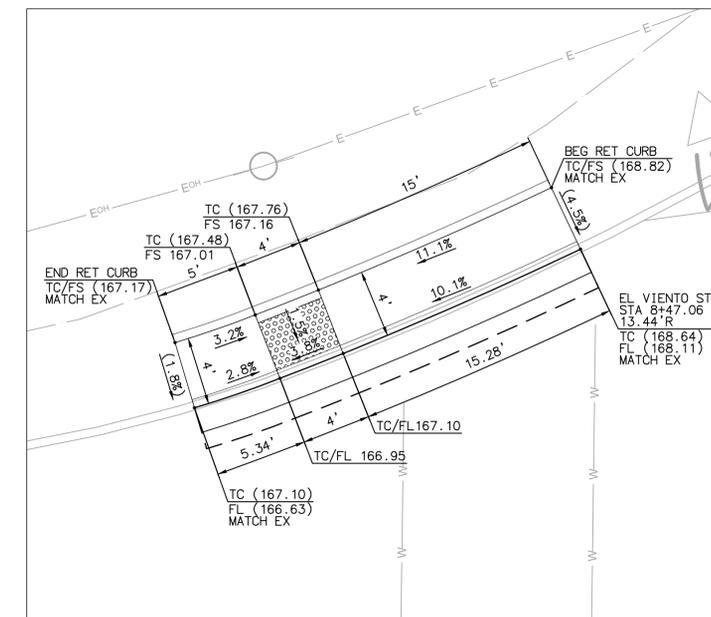
**CURB RAMP 17 (TYPE A)**  
**LOMAS SANTA FE/NARDO AVE**  
**SW CORNER (SEE SHEET IMP-5)**

SCALE: 1"=5'



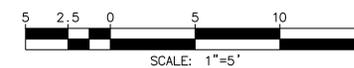
**CURB RAMP 18 (TYPE C)**  
**EL VIENTO ST/FIRE STA DRIVEWAY**  
**NE CORNER (SEE SHEET IMP-5)**

SCALE: 1"=5'



**CURB RAMP 19 (TYPE C)**  
**EL VIENTO ST/FIRE STA DRIVEWAY**  
**NW CORNER (SEE SHEET IMP-5)**

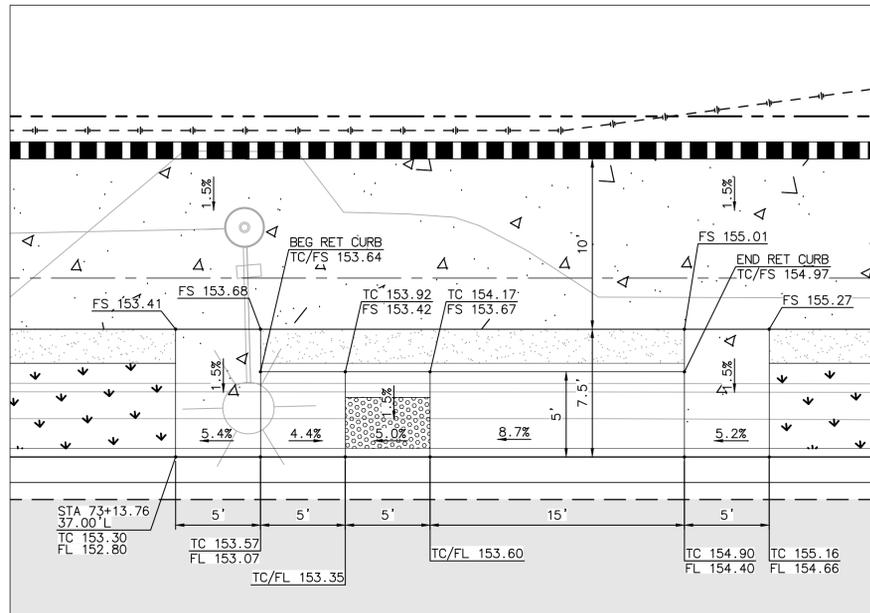
SCALE: 1"=5'



**PLAN CODE**  
 CD-3

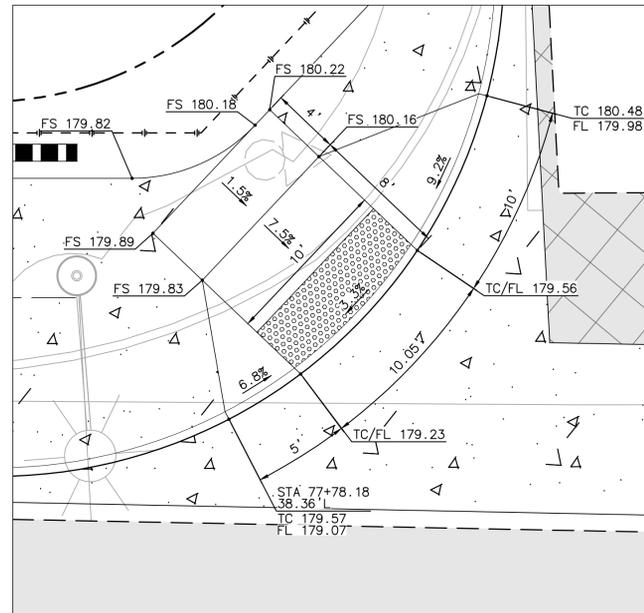
AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_





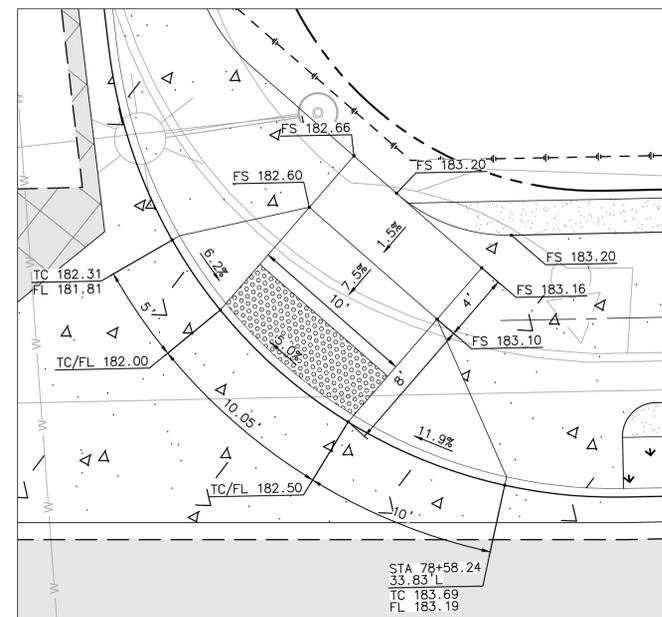
**CURB RAMP 28 (TYPE C)**  
**LOMAS SANTA FE/PLAZA ENTRANCE**  
**NE CORNER (SEE SHEET IMP-12)**

SCALE: 1"=5'



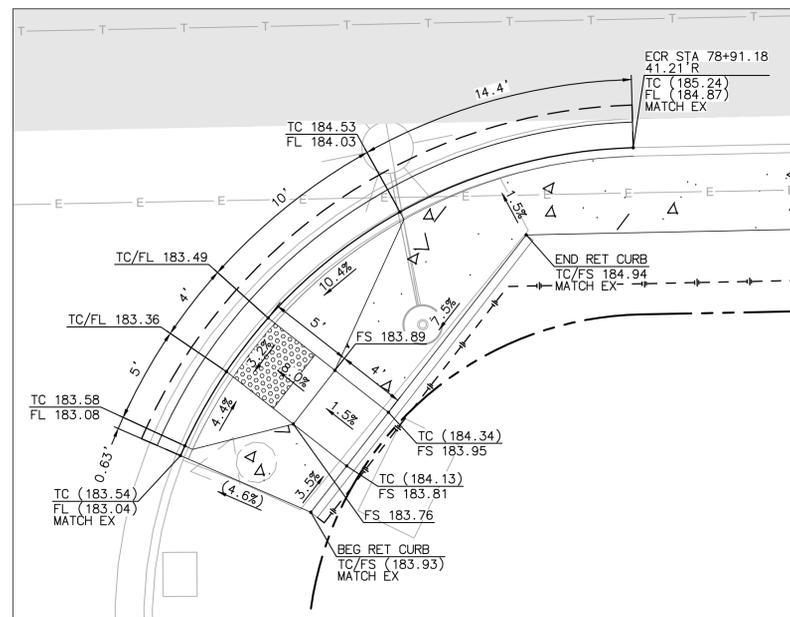
**CURB RAMP 29 (TYPE A)**  
**LOMAS SANTA FE/VIA MIL CUMBRES (WEST)**  
**NW CORNER (SEE SHEET IMP-13)**

SCALE: 1"=5'



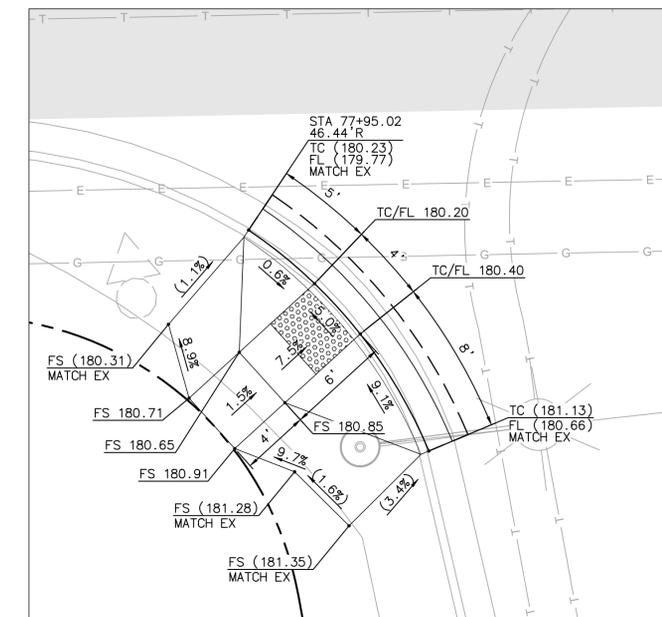
**CURB RAMP 30 (TYPE A)**  
**LOMAS SANTA FE/VIA MIL CUMBRES (WEST)**  
**NE CORNER (SEE SHEET IMP-13)**

SCALE: 1"=5'



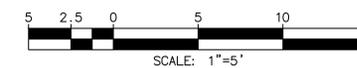
**CURB RAMP 31 (TYPE A)**  
**LOMAS SANTA FE/VIA MIL CUMBRES**  
**SE CORNER (SEE SHEET IMP-13)**

SCALE: 1"=5'



**CURB RAMP 32 (TYPE A)**  
**LOMAS SANTA FE/VIA MIL CUMBRES**  
**SW CORNER (SEE SHEET IMP-13)**

SCALE: 1"=5'



**PLAN CODE**  
 CD-5

AS-BUILT

By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES	APP'D	DATE

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

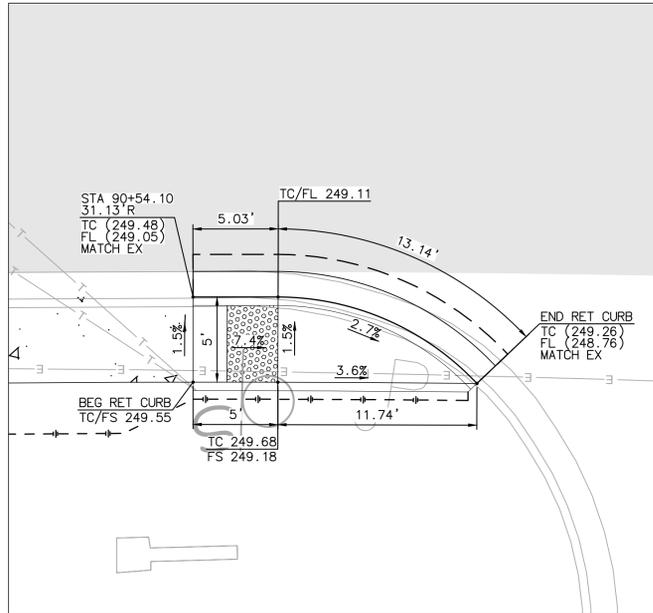
BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 CONSTRUCTION DETAILS

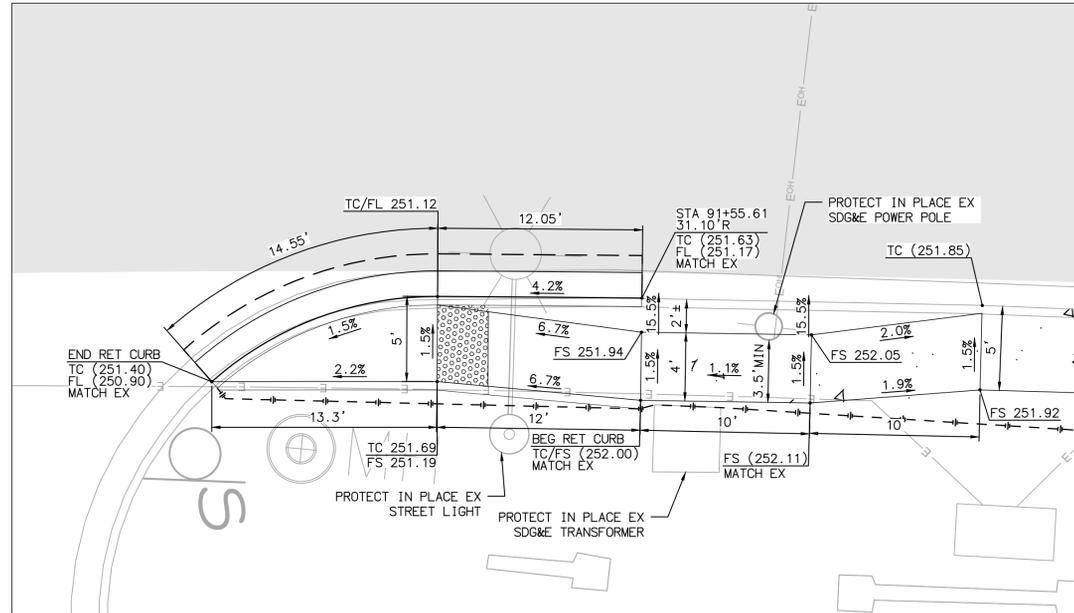
DRAWING NO.  
**CG-3185**  
 Sheet 31 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



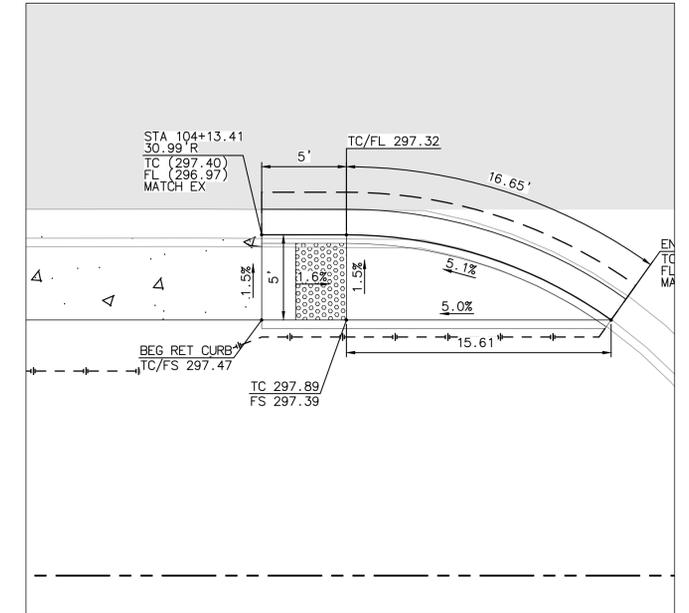
**CURB RAMP 33 (TYPE B)**  
 LOMAS SANTA FE/CAMINO DE LAS VILLAS (WEST)  
 SW CORNER (SEE SHEET IMP-16)

SCALE: 1"=5'



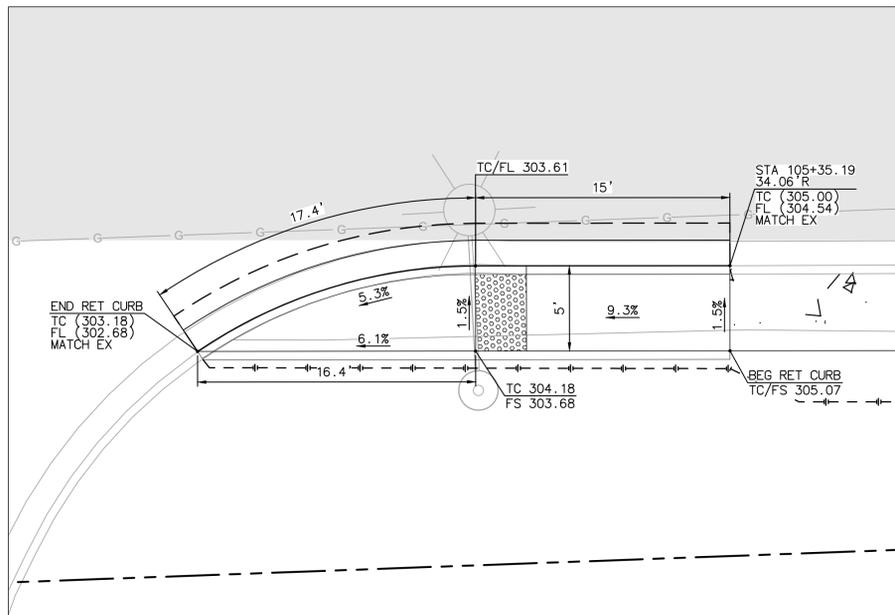
**CURB RAMP 34 (TYPE B)**  
 LOMAS SANTA FE/CAMINO DE LAS VILLAS (WEST)  
 SE CORNER (SEE SHEET IMP-16)

SCALE: 1"=5'



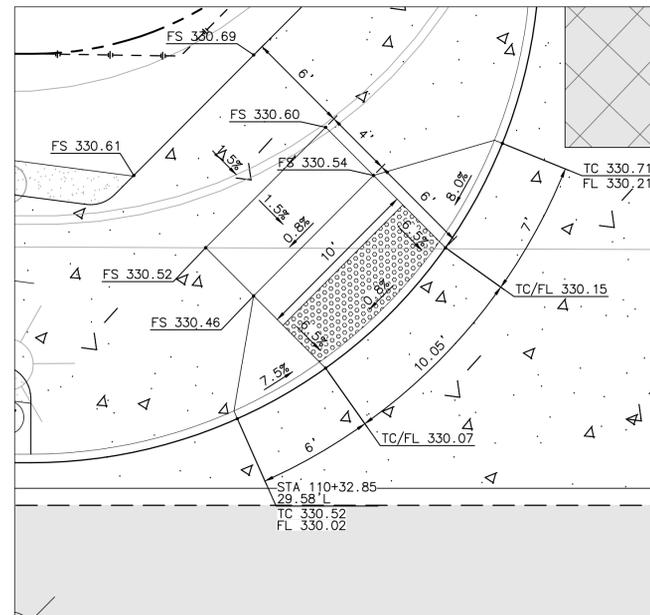
**CURB RAMP 35 (TYPE B)**  
 LOMAS SANTA FE/CAMINO DE LAS VILLAS (EAST)  
 SW CORNER (SEE SHEET IMP-19)

SCALE: 1"=5'



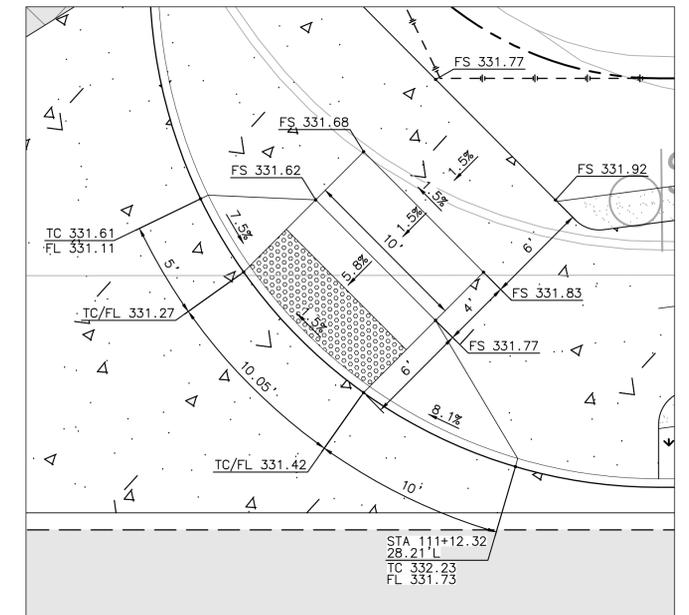
**CURB RAMP 36 (TYPE B)**  
 LOMAS SANTA FE/CAMINO DE LAS VILLAS (EAST)  
 SE CORNER (SEE SHEET IMP-19)

SCALE: 1"=5'



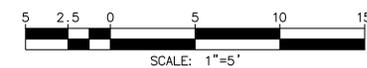
**CURB RAMP 37 (TYPE A)**  
 LOMAS SANTA FE/VIA MIL CUMBRES (EAST)  
 NW CORNER (SEE SHEET IMP-20)

SCALE: 1"=5'



**CURB RAMP 38 (TYPE A)**  
 LOMAS SANTA FE/VIA MIL CUMBRES (EAST)  
 NE CORNER (SEE SHEET IMP-20)

SCALE: 1"=5'



SCALE: 1"=5'

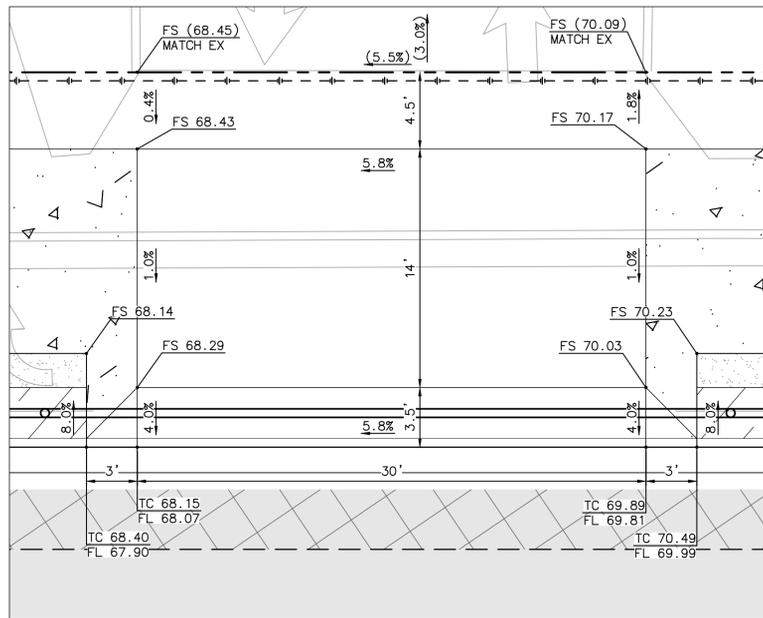
**AS-BUILT**  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
**PLAN CODE**  
 CD-6 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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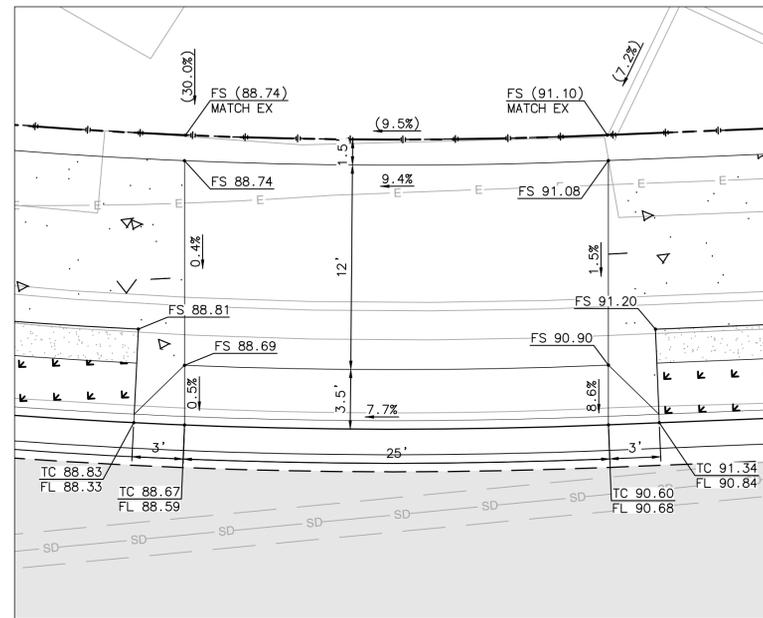


ENGINEER OF WORK JOSH C. STONE RCE 60755 DATE _____	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____ By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	<b>CITY OF SOLANA BEACH</b> ENGINEERING DEPARTMENT IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR CONSTRUCTION DETAILS	DRAWING NO. <b>CG-3185</b> Sheet 32 of 73
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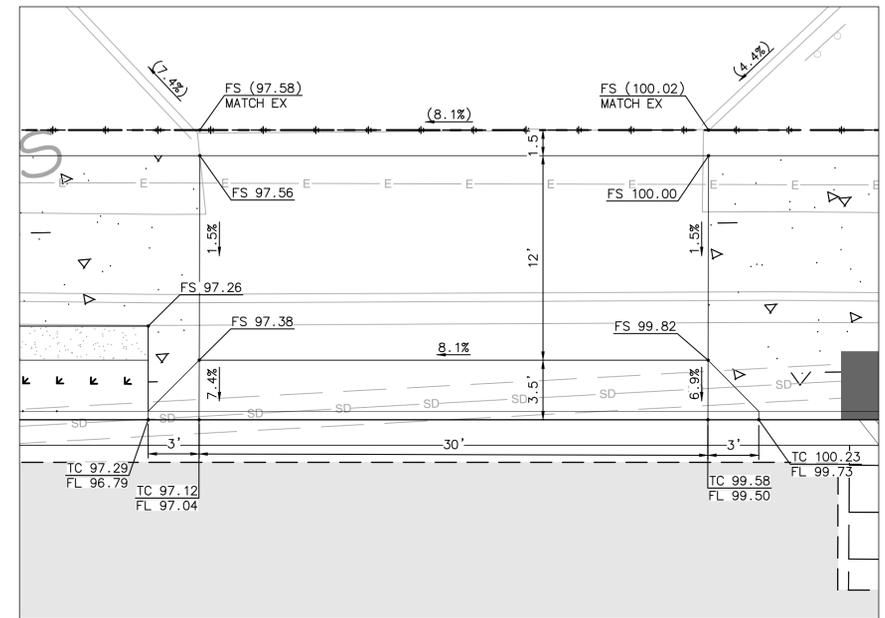
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



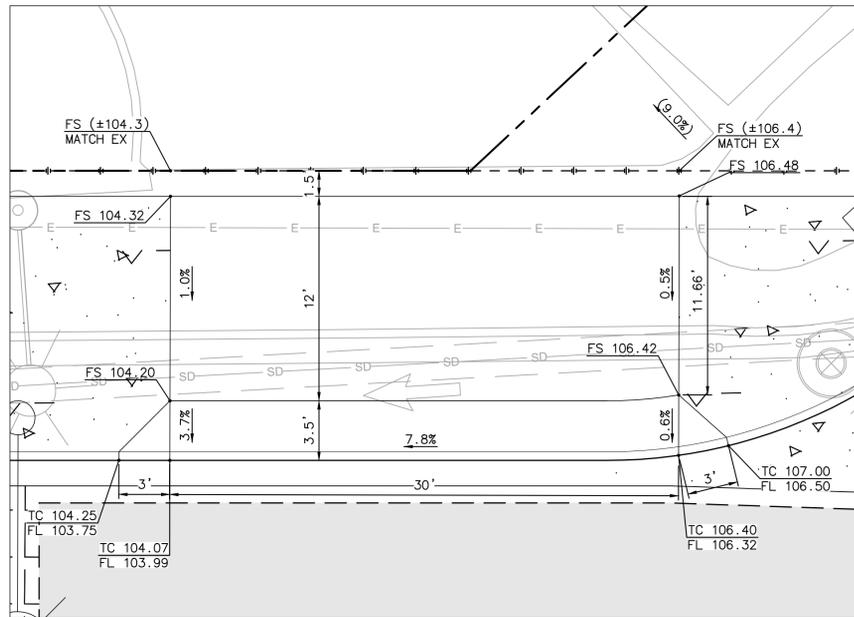
**DRIVEWAY 1**  
 LOMAS SANTA FE, STA 15+78.33  
 SEE SHEET IMP-2  
 SCALE: 1"=5'



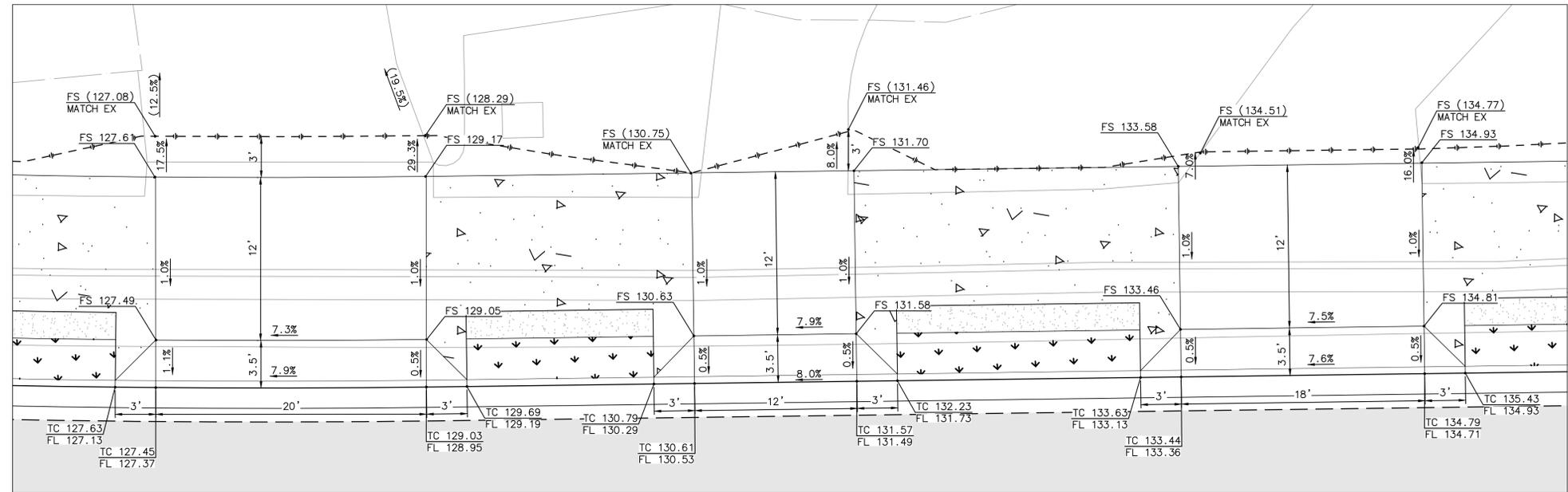
**DRIVEWAY 2**  
 LOMAS SANTA FE, STA 19+12.13  
 SEE SHEET IMP-2  
 SCALE: 1"=5'



**DRIVEWAY 3**  
 LOMAS SANTA FE, STA 20+18.78  
 SEE SHEET IMP-3  
 SCALE: 1"=5'



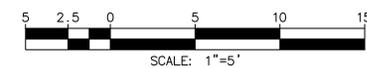
**DRIVEWAY 4**  
 LOMAS SANTA FE, STA 21+04.17  
 SEE SHEET IMP-3  
 SCALE: 1"=5'



**DRIVEWAY 5**  
 LOMAS SANTA FE, STA 23+95.03  
 SEE SHEET IMP-3  
 SCALE: 1"=5'

**DRIVEWAY 6**  
 LOMAS SANTA FE, STA 24+31.22  
 SEE SHEET IMP-4  
 SCALE: 1"=5'

**DRIVEWAY 7**  
 LOMAS SANTA FE, STA 24+70.20  
 SEE SHEET IMP-4  
 SCALE: 1"=5'



**AS-BUILT**  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
**PLAN CODE**  
 CD-7  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES	APP'D	DATE

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

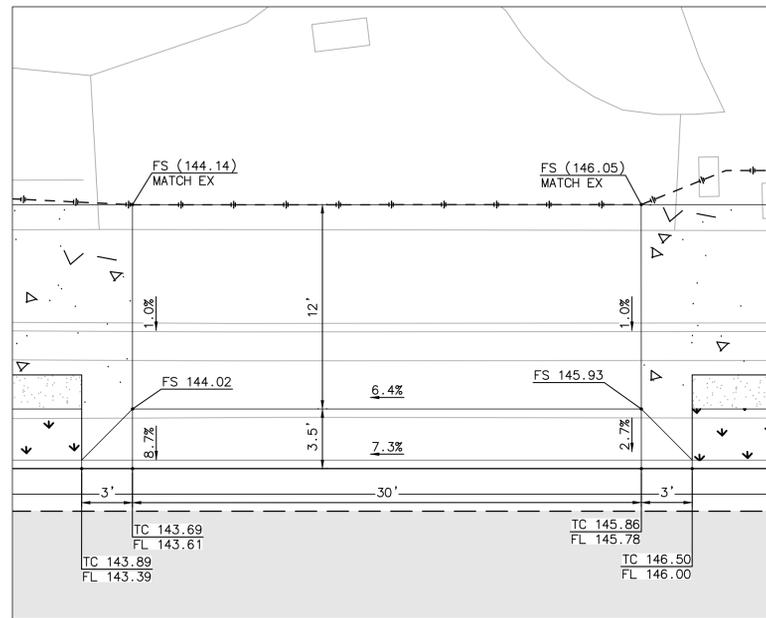
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 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

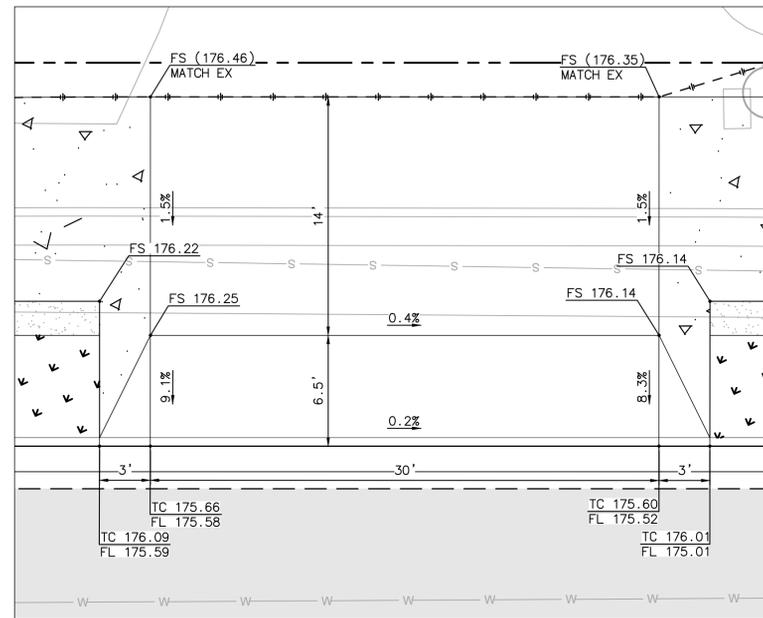
**CITY OF SOLANA BEACH**  
 IMPROVEMENT PLANS FOR:  
 LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT  
 CONSTRUCTION DETAILS

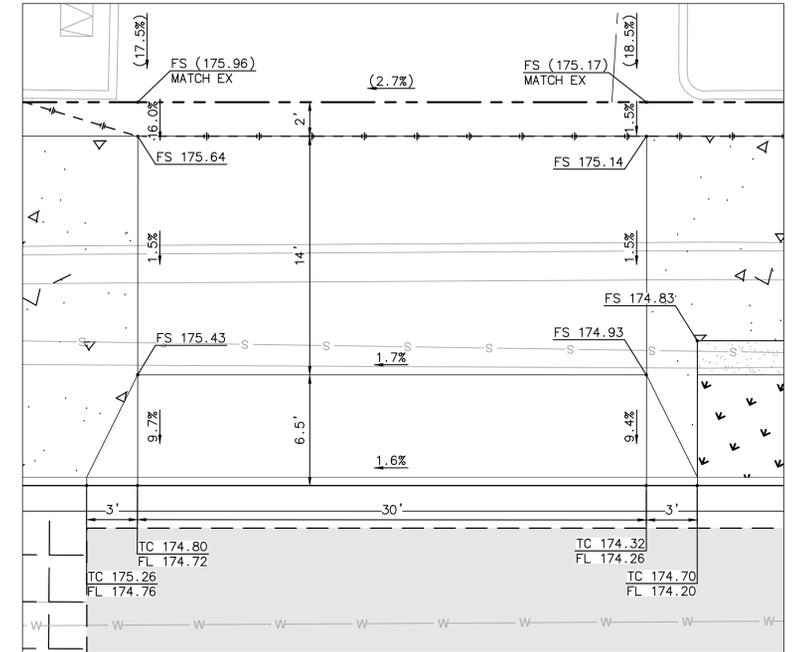
DRAWING NO.  
**CG-3185**  
 Sheet 33 of 73



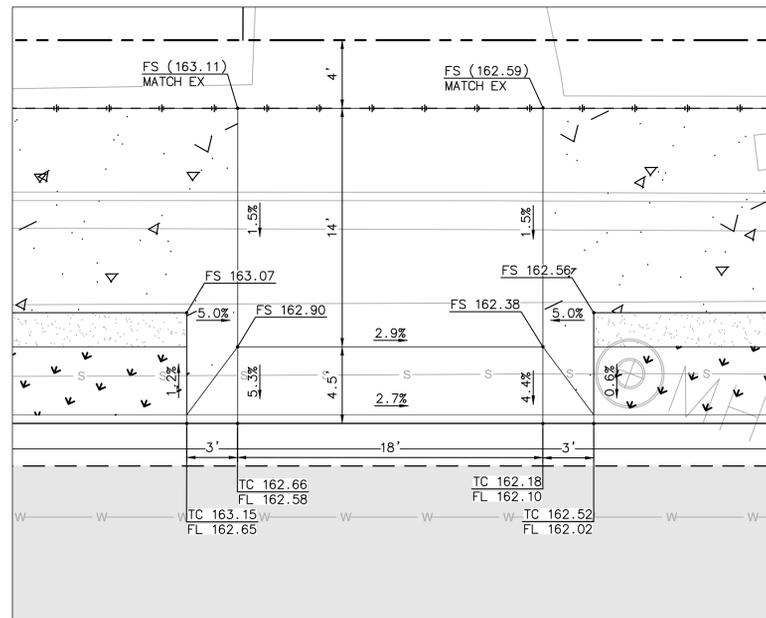
**DRIVEWAY 8**  
 LOMAS SANTA FE, STA 26+13.38  
 SEE SHEET IMP-4  
 SCALE: 1"=5'



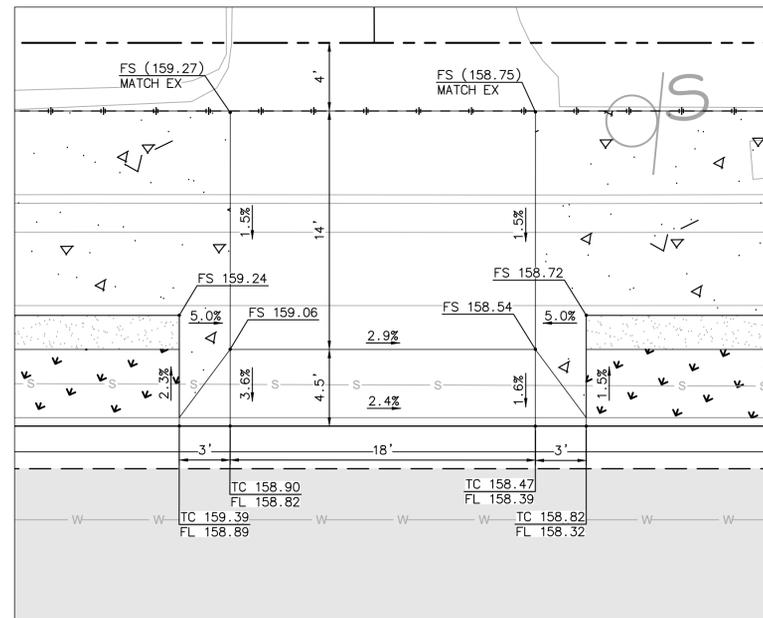
**DRIVEWAY 9**  
 LOMAS SANTA FE, STA 32+04.76  
 SEE SHEET IMP-5  
 SCALE: 1"=5'



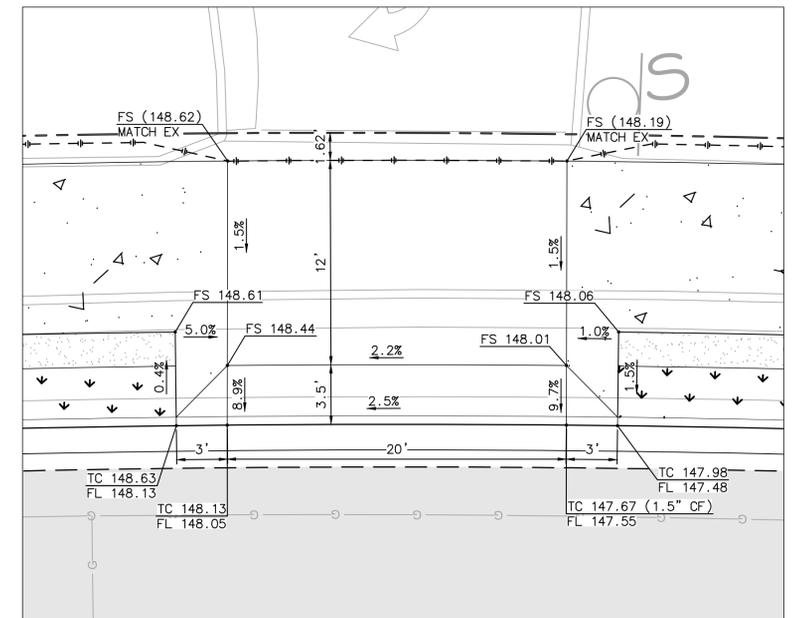
**DRIVEWAY 10**  
 LOMAS SANTA FE, STA 33+65.15  
 SEE SHEET IMP-6  
 SCALE: 1"=5'



**DRIVEWAY 11**  
 LOMAS SANTA FE, STA 39+34.89  
 SEE SHEET IMP-7  
 SCALE: 1"=5'



**DRIVEWAY 12**  
 LOMAS SANTA FE, STA 40+99.08  
 SEE SHEET IMP-7  
 SCALE: 1"=5'



**DRIVEWAY 13**  
 LOMAS SANTA FE, STA 45+56.25  
 SEE SHEET IMP-8  
 SCALE: 1"=5'



**AS-BUILT**  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
**PLAN CODE**  
 CD-8 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES

APP'D DATE

RECOMMENDED FOR APPROVAL

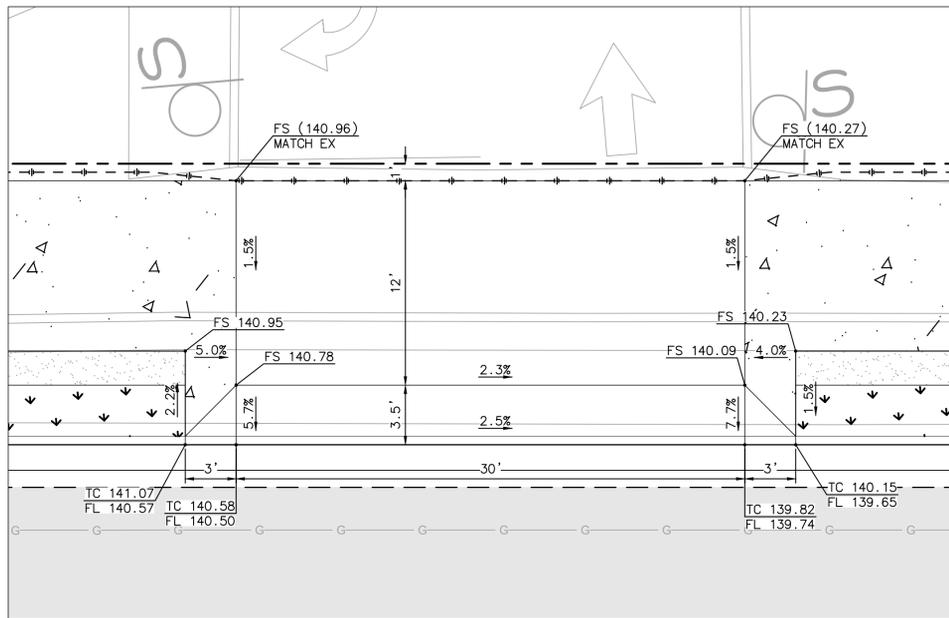
APPROVED FOR CONSTRUCTION  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

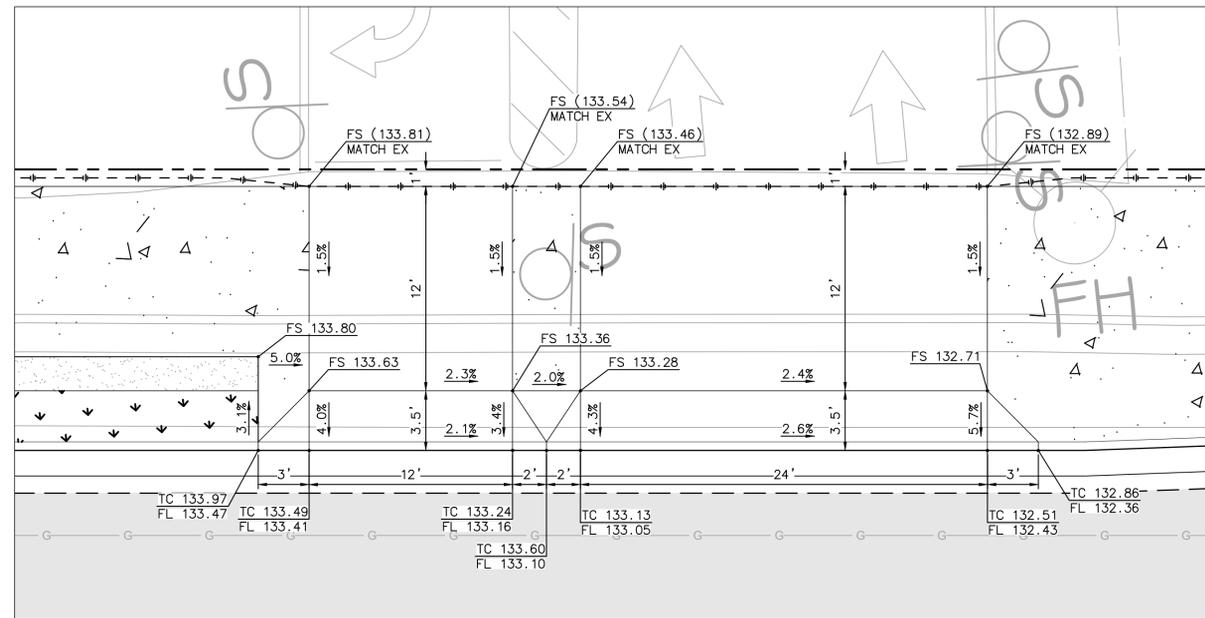
CITY OF SOLANA BEACH  
 IMPROVEMENT PLANS FOR:  
 LOMAS SANTA FE CORRIDOR

ENGINEERING DEPARTMENT  
 CONSTRUCTION DETAILS

DRAWING NO.  
**CG-3185**  
 Sheet 34 of 73

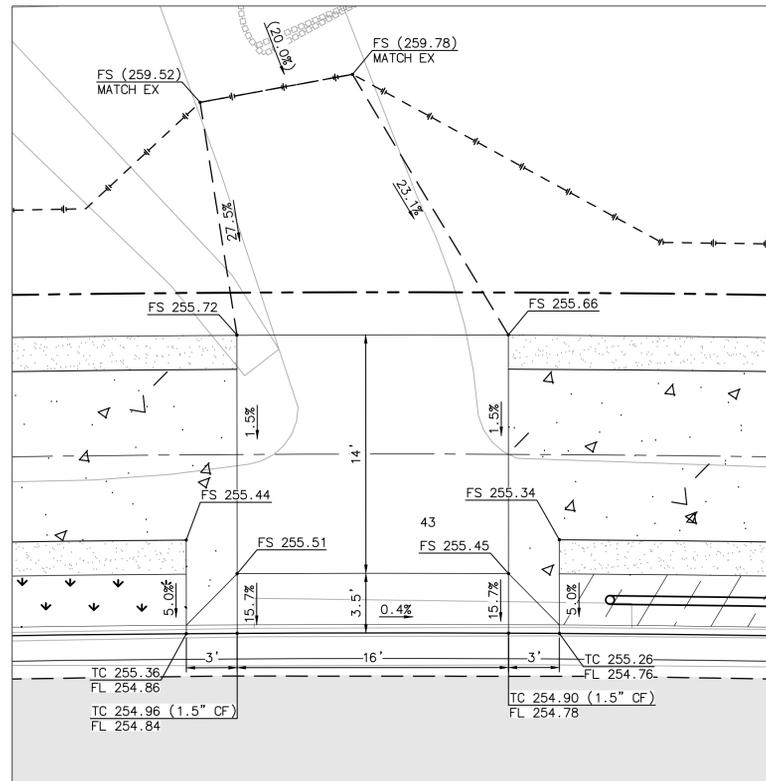


DRIVEWAY 14  
 LOMAS SANTA FE, STA 48+23.42  
 SEE SHEET IMP-9  
 SCALE: 1"=5'

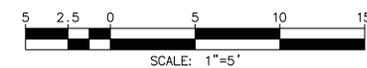


DRIVEWAY 15  
 LOMAS SANTA FE, STA 51+19.29  
 SEE SHEET IMP-10  
 SCALE: 1"=5'

DRIVEWAY 16  
 LOMAS SANTA FE, STA 51+41.29  
 SEE SHEET IMP-10  
 SCALE: 1"=5'



DRIVEWAY 17  
 LOMAS SANTA FE, STA 92+61.82  
 SEE SHEET IMP-16  
 SCALE: 1"=5'



PLAN CODE  
 CD-9

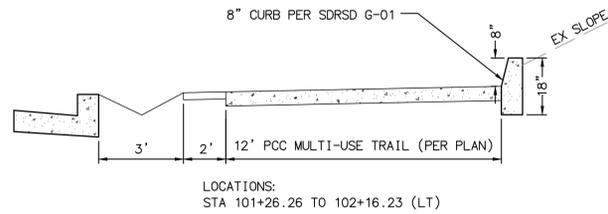
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 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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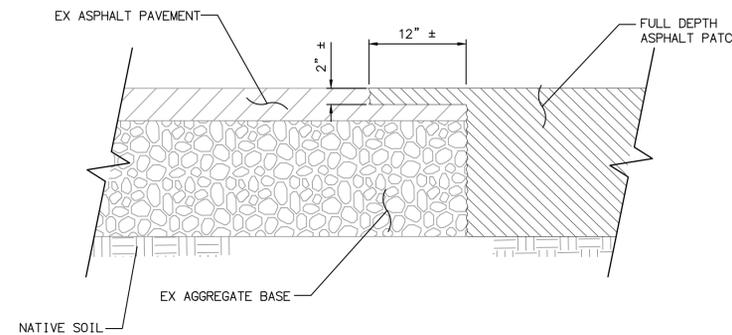


ENGINEER OF WORK JOSH C. STONE RCE 60755 DATE _____	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____ By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT CONSTRUCTION DETAILS	DRAWING NO. <b>CG-3185</b> Sheet 35 of 73
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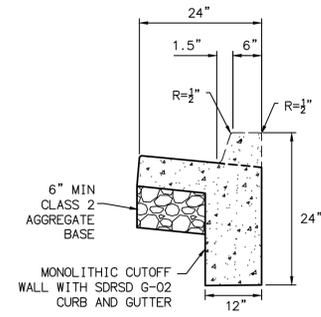
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



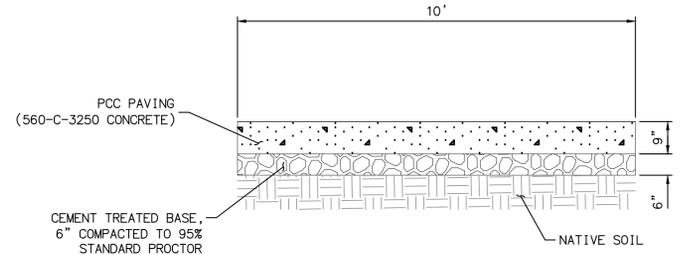
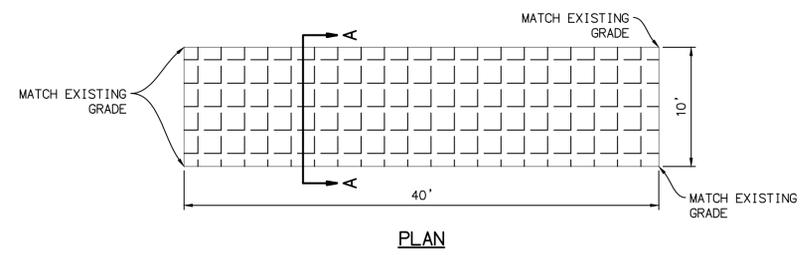
**1** **STEM CURB DETAIL**  
N.T.S.



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



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



**3** **PCC BUS STOP PAD**  
N.T.S.

**PLAN CODE** AS-BUILT  
CD-10 By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

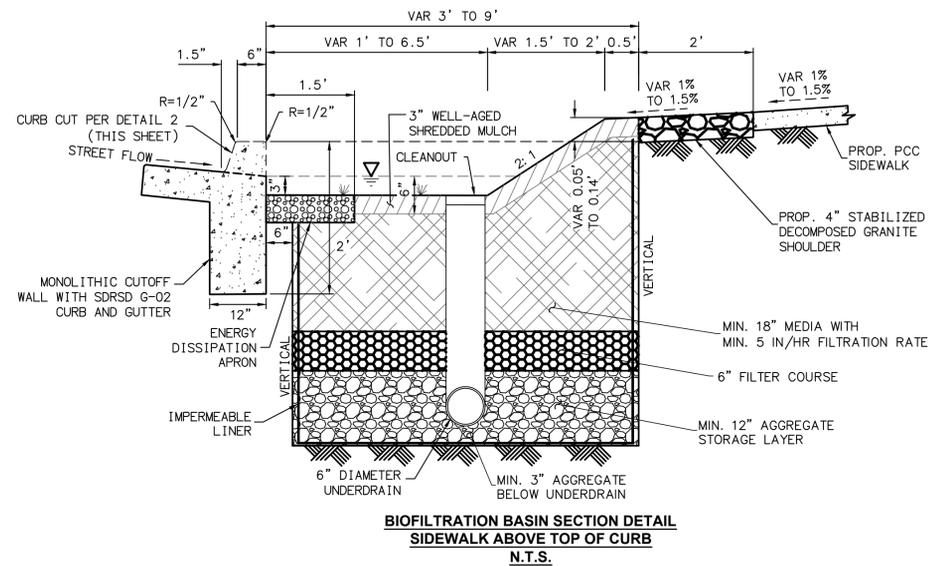
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By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION:  
LOCATION:  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: CONSTRUCTION DETAILS  
LOMAS SANTA FE CORRIDOR

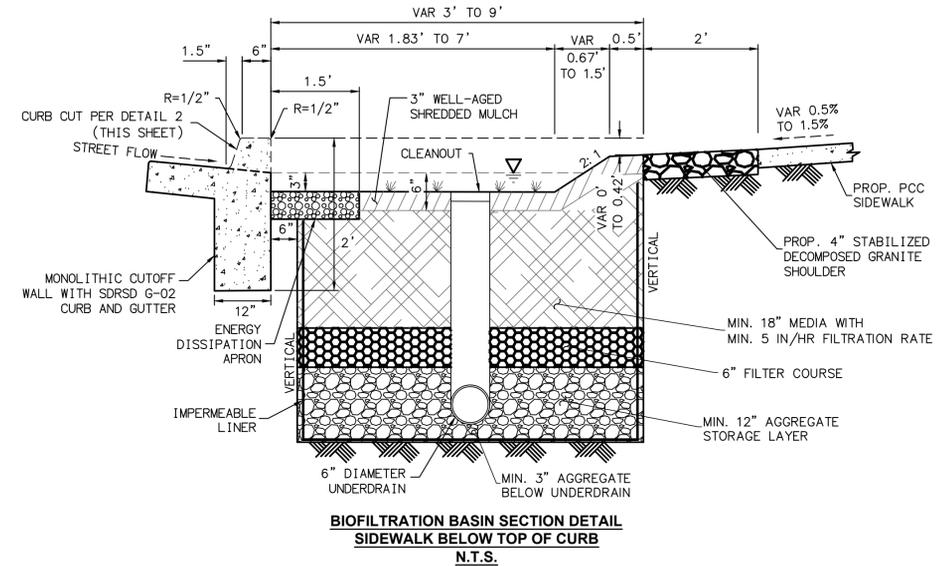
DRAWING NO.  
**CG-3185**  
Sheet 36 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



**BIOFILTRATION BASIN SECTION DETAIL  
SIDEWALK ABOVE TOP OF CURB**  
N.T.S.

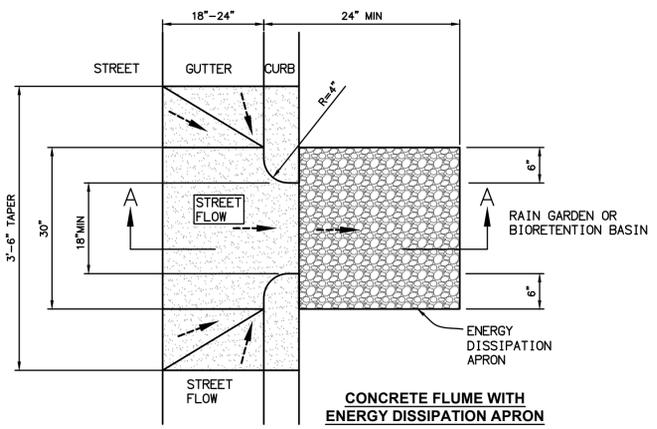
- LOCATIONS**
- STA 14+28.91 TO 15+00.00 (LT)
  - STA 16+75.00 TO 16+91.27 (LT)
  - STA 92+72.59 TO 97+25.97 (LT)



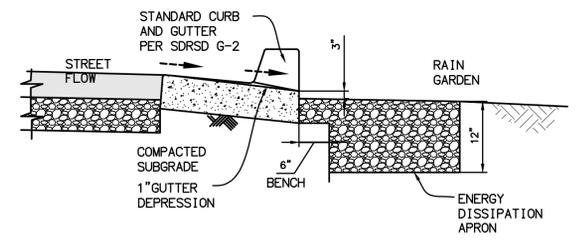
**BIOFILTRATION BASIN SECTION DETAIL  
SIDEWALK BELOW TOP OF CURB**  
N.T.S.

- LOCATIONS**
- STA 15+00.00 TO 16+75.00 (LT)
  - STA 16+75.00 TO 16+91.27 (LT)

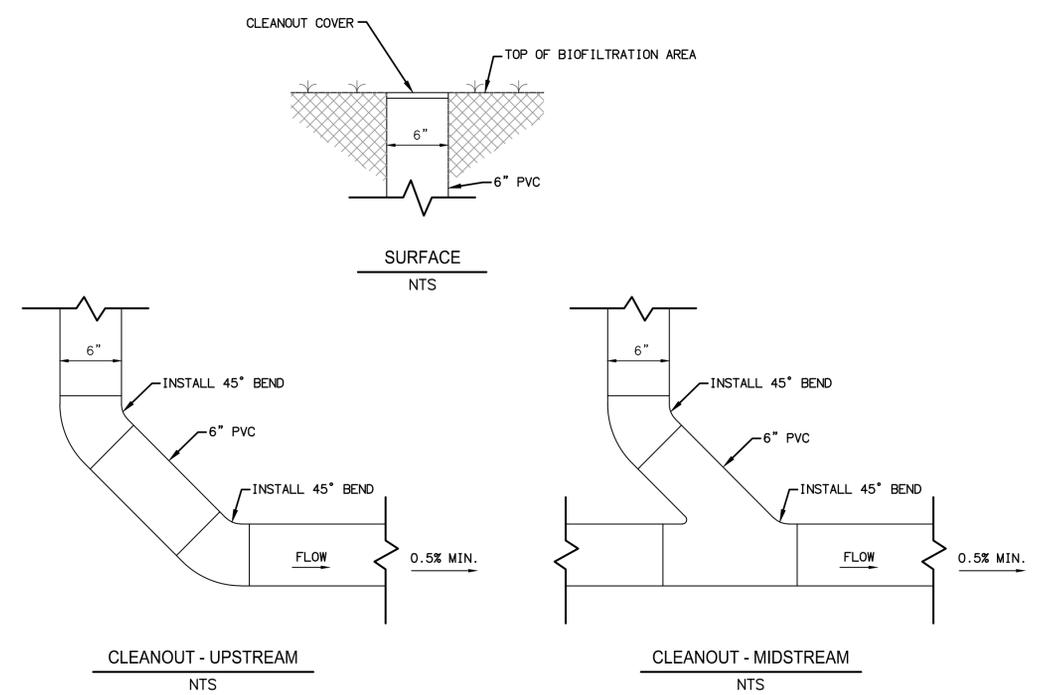
**1 PLANTER BOX/BIOFILTRATION BASIN DETAIL**  
N.T.S.



**CONCRETE FLUME WITH  
ENERGY DISSIPATION APRON**



**SECTION A-A  
CURB CUT DETAIL**  
N.T.S.



**3 BIOFILTRATION AREA CLEANOUT**  
N.T.S.

**2 CURB CUT DETAIL**  
N.T.S.

**PLAN CODE**  
CD-11

AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
5050 Avenida Encinas  
Suite 260  
Carlsbad, CA 92008  
Phone: (760) 476-9193  
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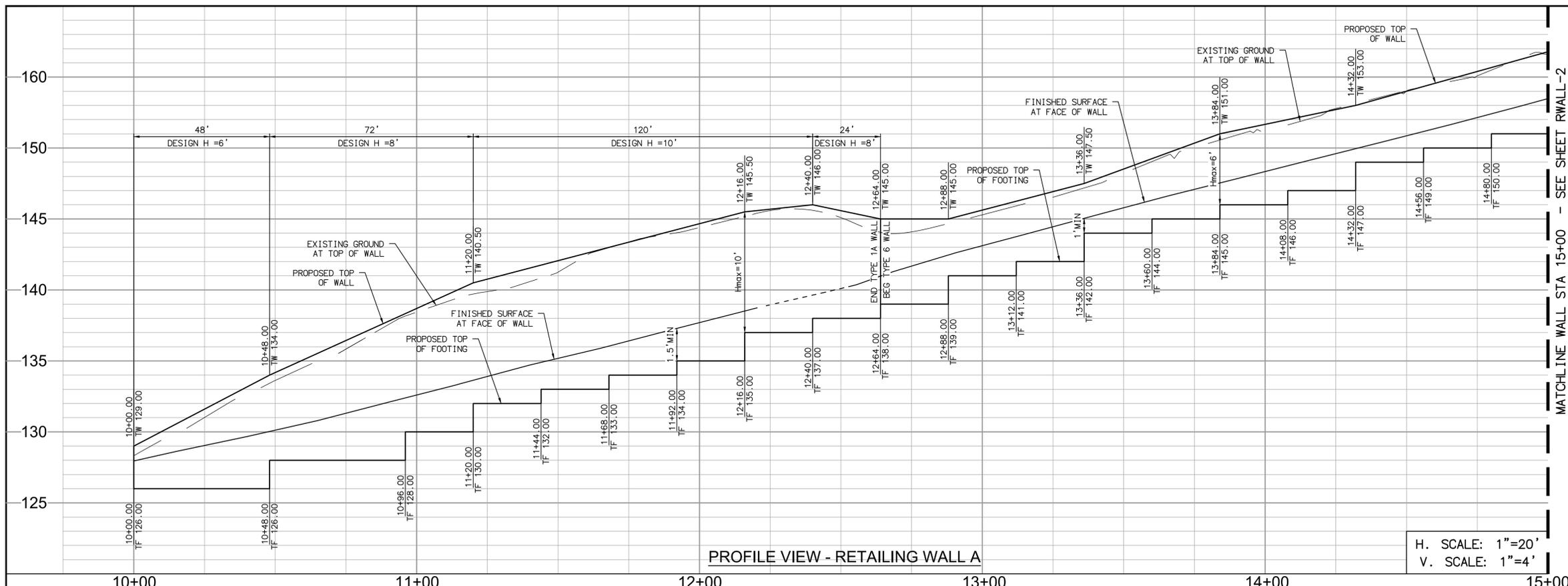
ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE
JOSH C. STONE RCE 60755			

RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION
By: _____ Date: _____	By: _____ Date: _____
By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22

BENCH MARK	DESCRIPTION:
	LOCATION:
	ELEV.: _____ DATUM: M.S.L.

<b>CITY OF SOLANA BEACH</b>	ENGINEERING DEPARTMENT	DRAWING NO.
IMPROVEMENT PLANS FOR:	CONSTRUCTION DETAILS	<b>CG-3185</b>
<b>LOMAS SANTA FE CORRIDOR</b>		Sheet 37 of 73

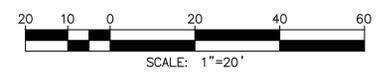
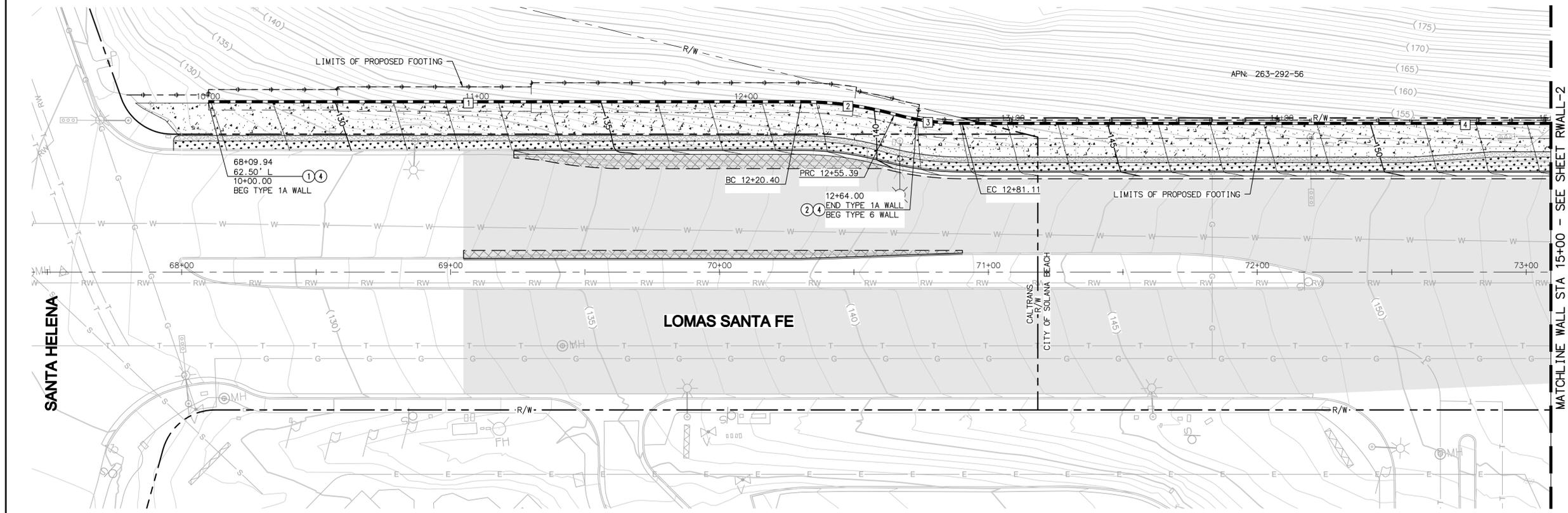
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES**
- CONSTRUCT TYPE 1A (CASE 2) REINFORCED CONCRETE RETAINING WALL PER CALTRANS STD PLAN B3-3B
  - CONSTRUCT TYPE 6A (CASE 2) REINFORCED CONCRETE STEM RETAINING WALL PER CALTRANS STD PLAN B3-7B
  - CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

**RETAINING WALL DATA TABLE**

ID	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N84°43'48"W	--	220.40'	TYPE 1A RET WALL
2	15°11'21"	132.00'	34.99'	TYPE 1A RET WALL
3	15°11'21"	97.00'	25.71'	TYPE 1A RET WALL TYPE 6 RET WALL
4	N84°43'43"W	--	218.89'	TYPE 6 RET WALL



AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES  
APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

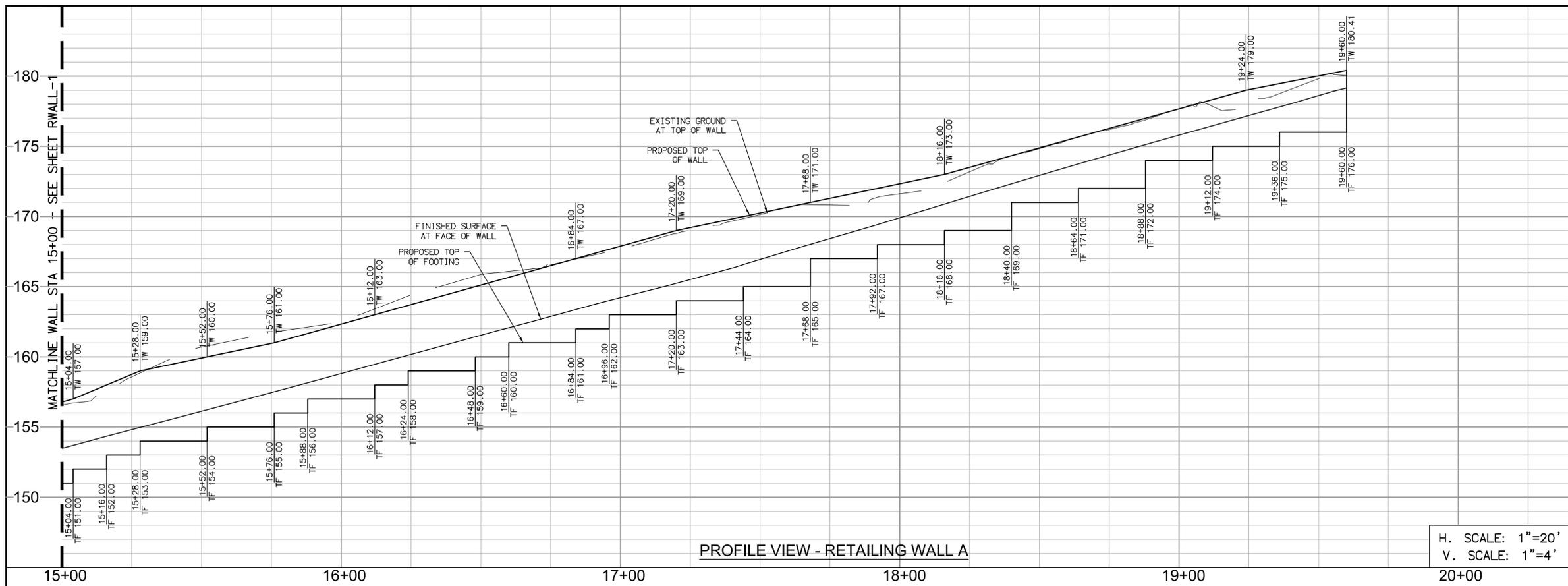
BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
RETAINING WALL PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
Sheet 38 of 73

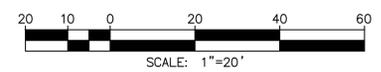
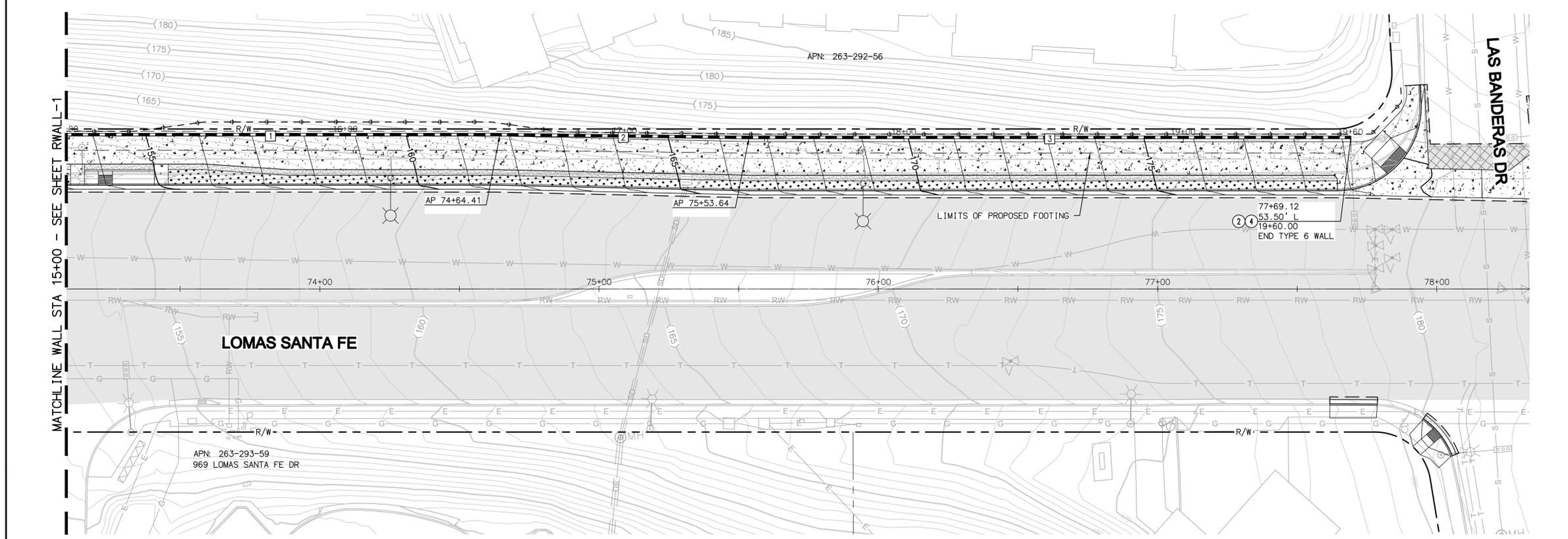
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES**
- ② CONSTRUCT TYPE 6A (CASE 2) REINFORCED CONCRETE STEM RETAINING WALL PER CALTRANS STD PLAN B3-7B
  - ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

**RETAINING WALL DATA TABLE**

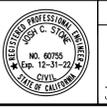
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N84°43'43"W	--	374.07'	TYPE 6 RET WALL
2	N84°05'34"W	--	89.91'	TYPE 6 RET WALL
3	N84°43'48"W	--	215.49'	TYPE 6 RET WALL



AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**PLAN CODE**  
RWALL-2

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

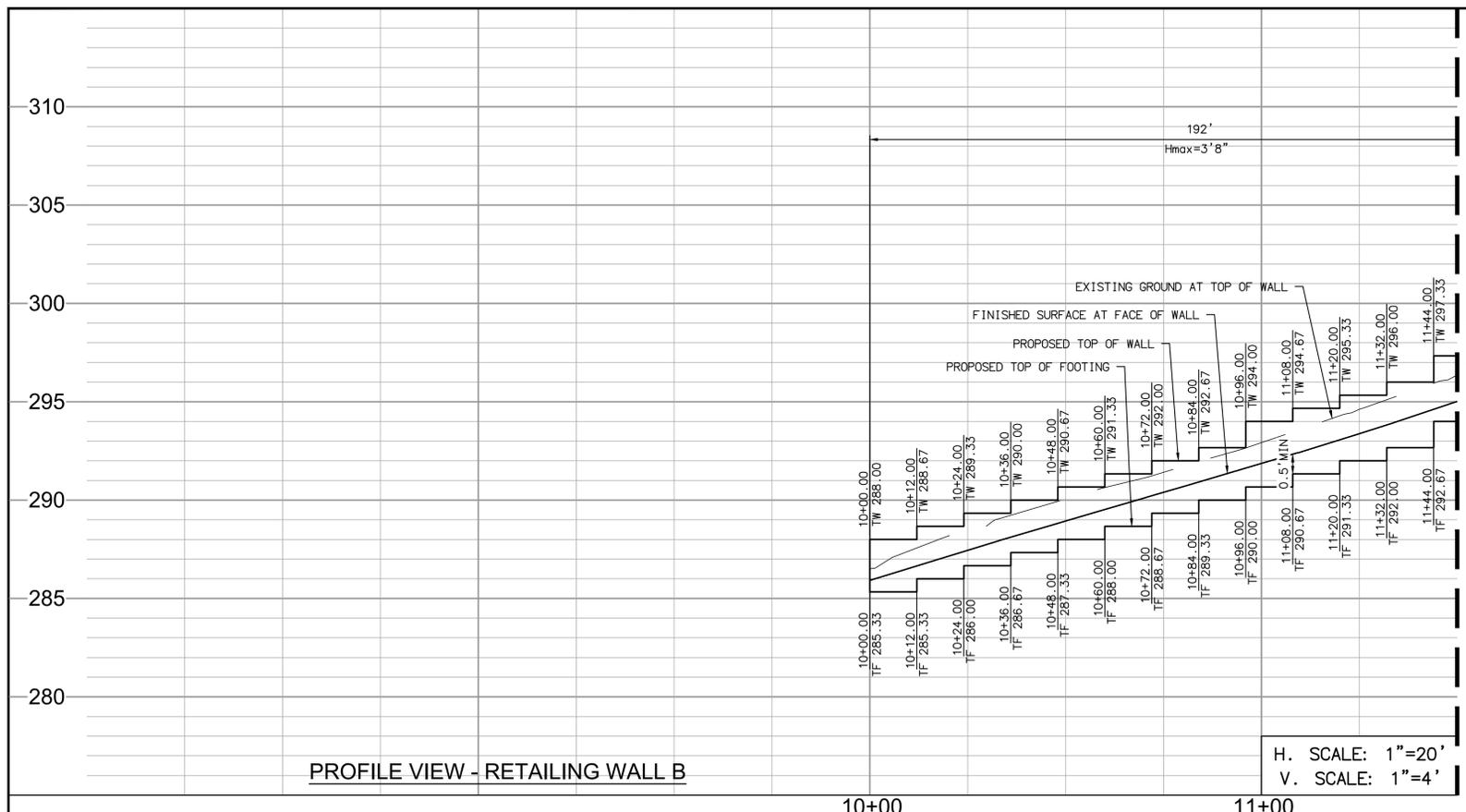
APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE  
LOMAS SANTA FE CORRIDOR

DRAWING NO. **CG-3185**  
Sheet 39 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



PROFILE VIEW - RETAINING WALL B

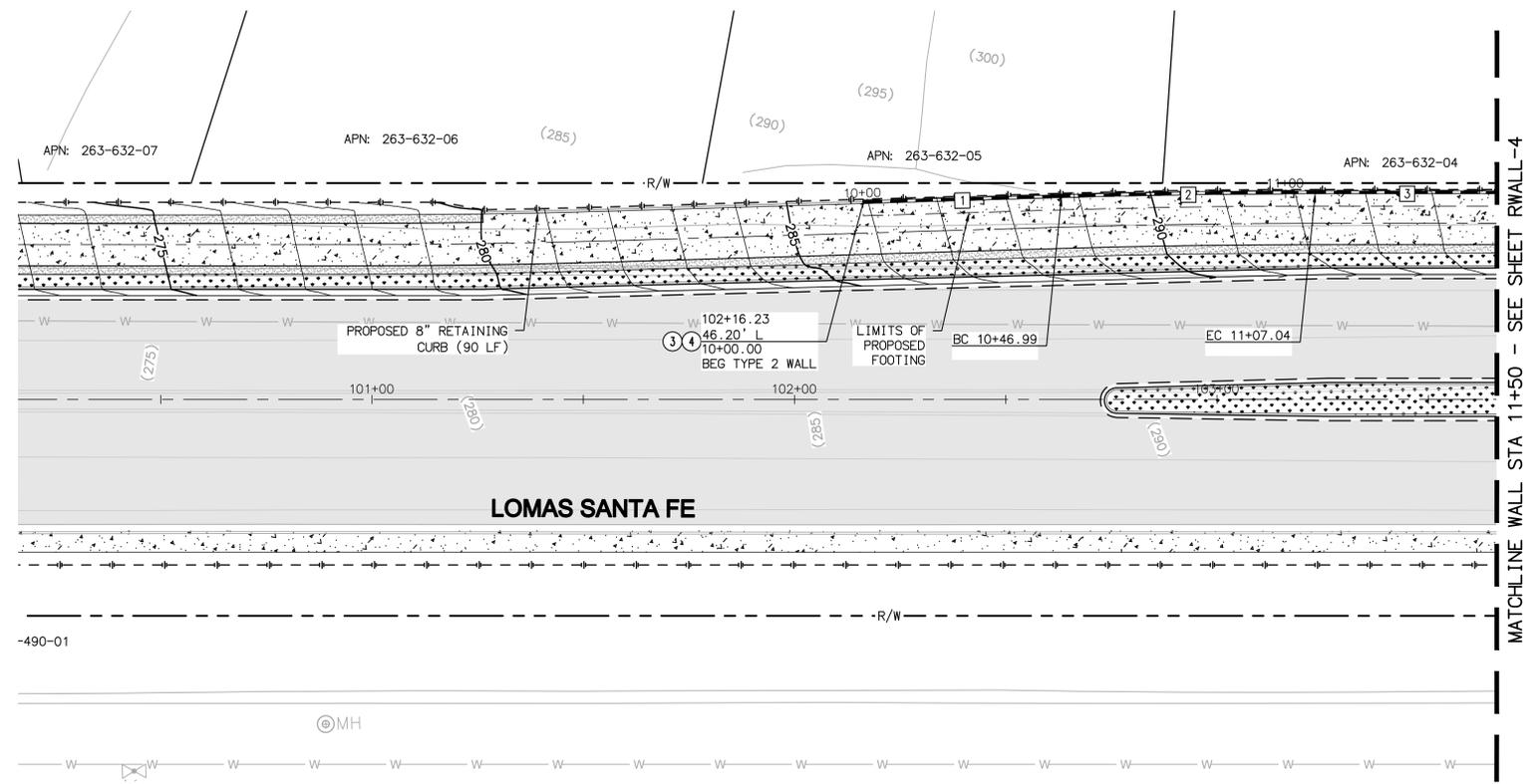
H. SCALE: 1"=20'  
V. SCALE: 1"=4'

**CONSTRUCTION NOTES**

- ③ CONSTRUCT TYPE 2 MASONRY WALL PER SDRSD C-02
- ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

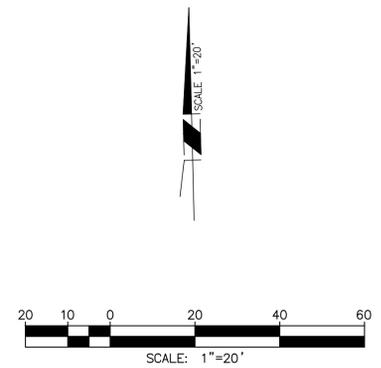
RETAINING WALL DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N89°40'39"E	--	46.99'	TYPE 2 RET WALL
2	01°42'51"W	2007.00'	60.05'	TYPE 2 RET WALL
3	N88°36'30"W	--	42.96'	TYPE 2 RET WALL



PLAN VIEW - RETAINING WALL B

SCALE: 1"=20'

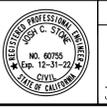


AS-BUILT

**PLAN CODE**  
RWALL-3

By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
5050 Avenida Encinas  
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Carlsbad, CA 92008  
Phone: (760) 476-9193  
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ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

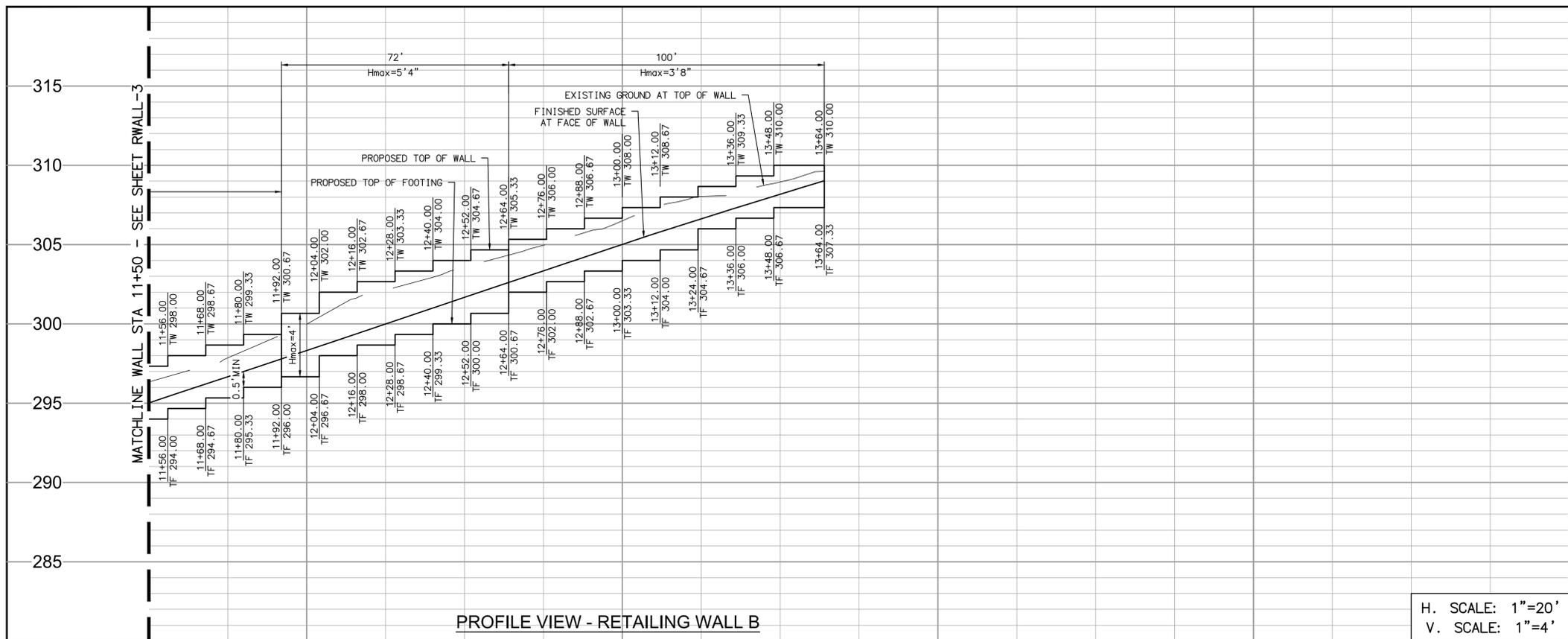
RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE  
LOMAS SANTA FE CORRIDOR

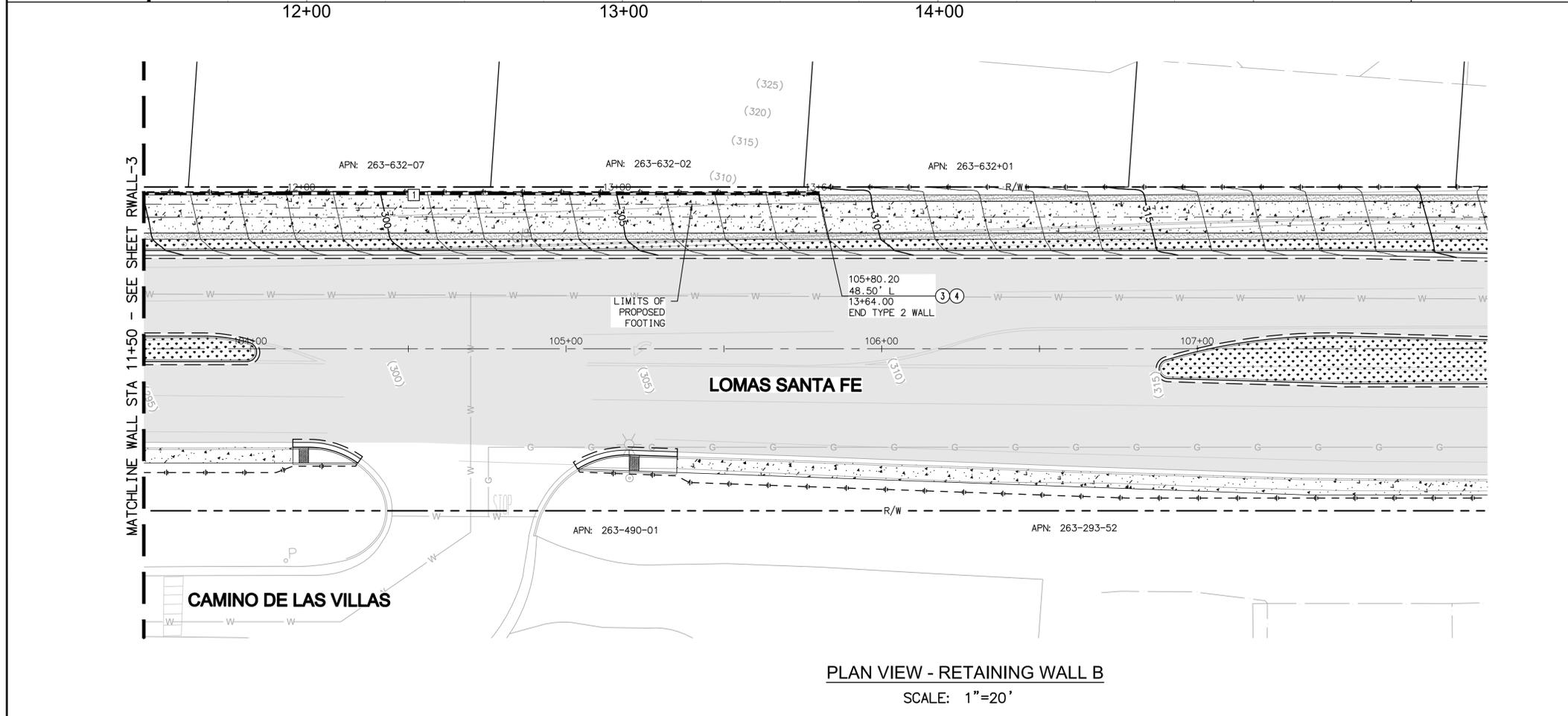
DRAWING NO.  
**CG-3185**  
Sheet 40 of 73



- CONSTRUCTION NOTES**
- ③ CONSTRUCT TYPE 2 MASONRY WALL PER SDRSD C-02
  - ④ CONSTRUCT PROTECTIVE RAILING ON TOP OF RETAINING WALL PER SDRSD M-24

RETAINING WALL DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N88°36'30"W	--	214.00'	TYPE 2 RET WALL

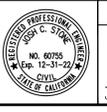
H. SCALE: 1"=20'  
V. SCALE: 1"=4'



**PLAN VIEW - RETAINING WALL B**  
SCALE: 1"=20'

AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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Carlsbad, CA 92008  
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ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES	APP'D	DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

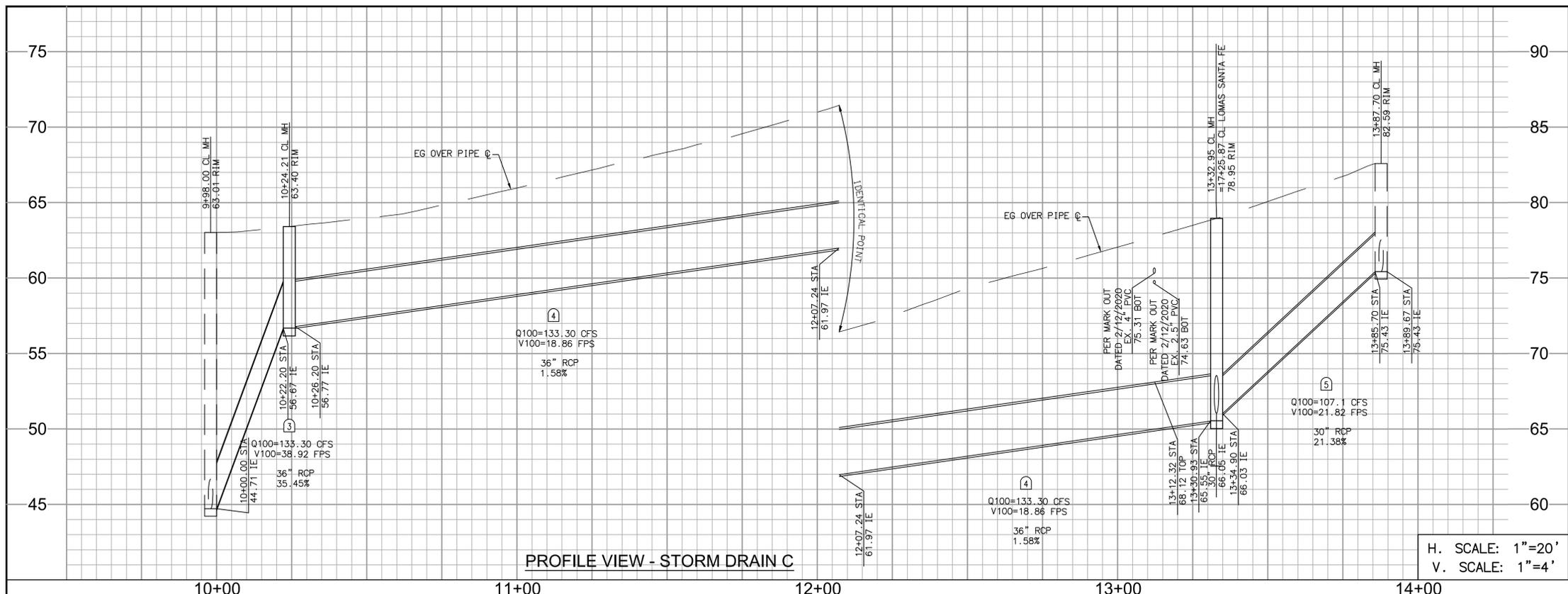
APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

**CITY OF SOLANA BEACH** ENGINEERING DEPARTMENT  
IMPROVEMENT PLANS FOR: RETAINING WALL PLAN & PROFILE  
LOMAS SANTA FE CORRIDOR

DRAWING NO. **CG-3185**  
Sheet 41 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

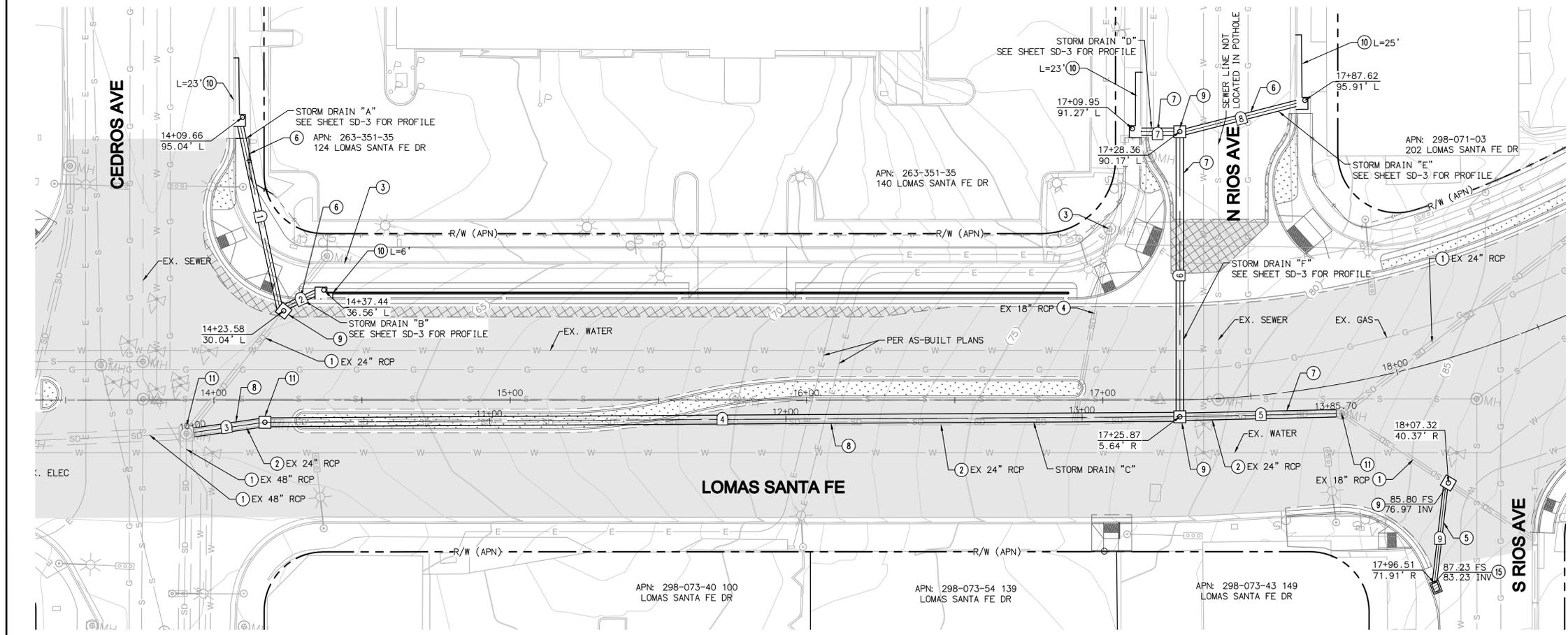


PROFILE VIEW - STORM DRAIN C

H. SCALE: 1"=20'  
V. SCALE: 1"=4'

**STORM DRAIN NOTE**  
ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

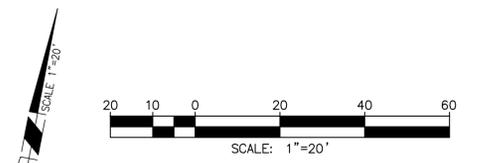
- CONSTRUCTION NOTES**
- ① PROTECT IN PLACE
  - ② REMOVE EXISTING STORM DRAIN PIPE
  - ③ REMOVE EXISTING STORM DRAIN INLET
  - ④ ABANDON EXISTING STORM DRAIN PIPE
  - ⑤ INSTALL 18" RCP STORM DRAIN
  - ⑥ INSTALL 24" RCP STORM DRAIN
  - ⑦ INSTALL 30" RCP STORM DRAIN
  - ⑧ INSTALL 36" RCP STORM DRAIN
  - ⑨ CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
  - ⑩ CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
  - ⑪ CONNECT PROPOSED STORM DRAIN TO EXISTING CLEANOUT
  - ⑫ CONSTRUCT TYPE G-1 CATCH BASIN PER SDRSD D-08



PLAN VIEW - STORM DRAINS "A-F"

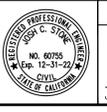
SCALE: 1"=20'

STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N23°04'23"W	---	62.01'	24" RCP ~ CLASS II
2	N53°54'50"E	---	10.33'	24" RCP ~ CLASS II
3	N71°00'28"E	---	22.20'	36" RCP ~ CLASS IV
4	N78°46'07"E	---	304.73'	36" RCP ~ CLASS III
5	N77°51'19"E	---	50.75'	30" RCP ~ CLASS III
6	N10°53'07"W	---	90.96'	30" RCP ~ CLASS III
7	N79°06'00"E	---	11.02'	30" RCP ~ CLASS II
8	N63°34'09"E	---	38.79'	24" RCP ~ CLASS II
9	N04°15'57"W	---	32.10'	18" RCP ~ CLASS II



AS-BUILT  
PLAN CODE: SD-1  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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mbakerintl.com



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

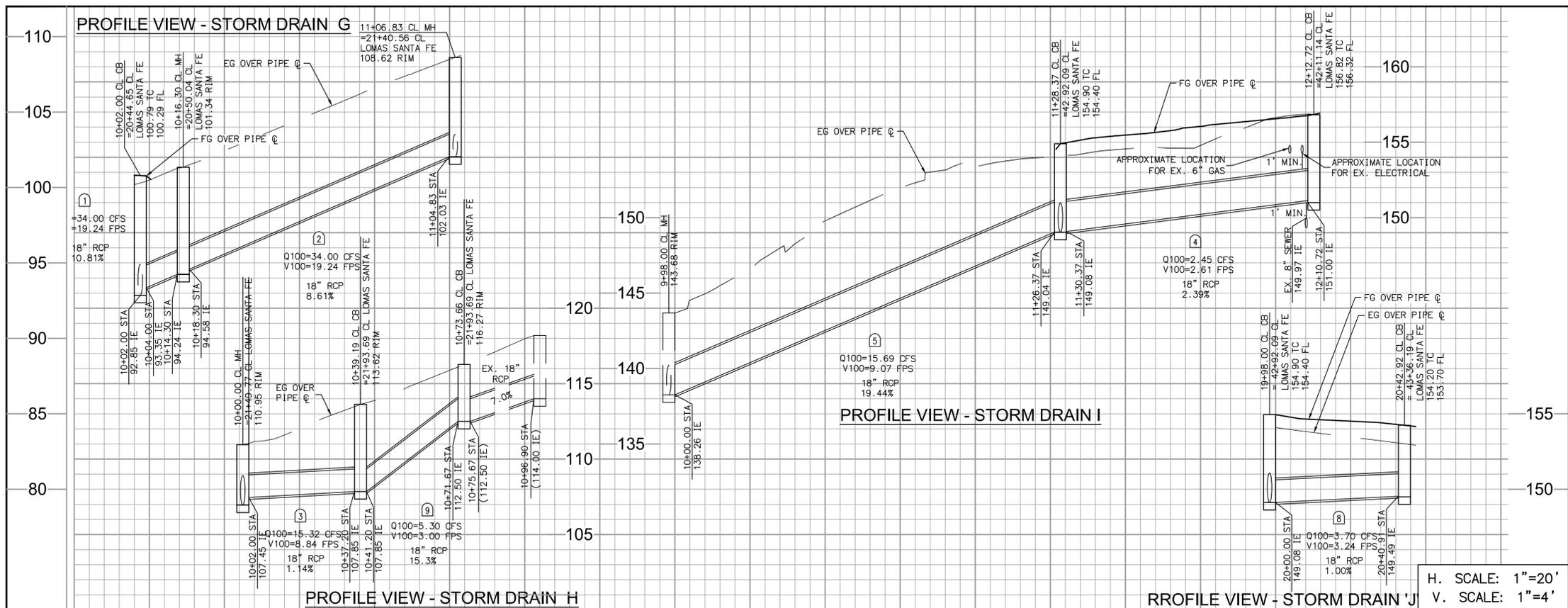
APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
DRAWING NO. CG-3185  
Sheet 42 of 73

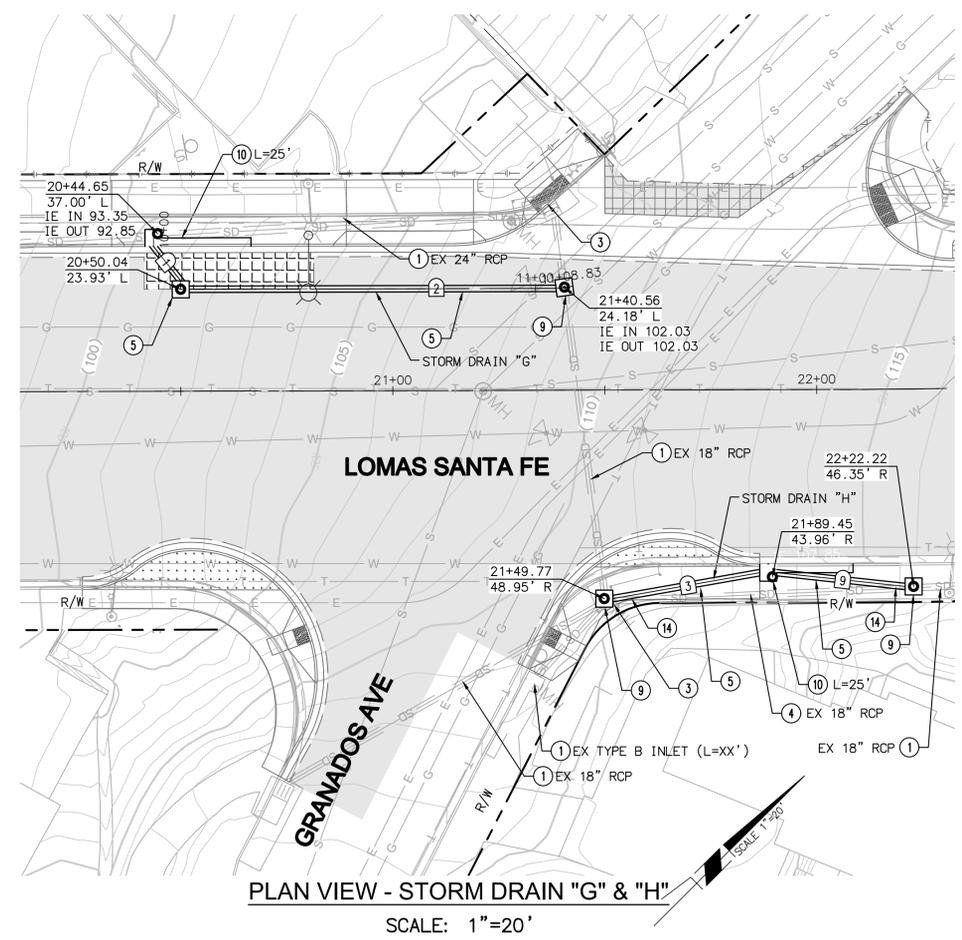
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



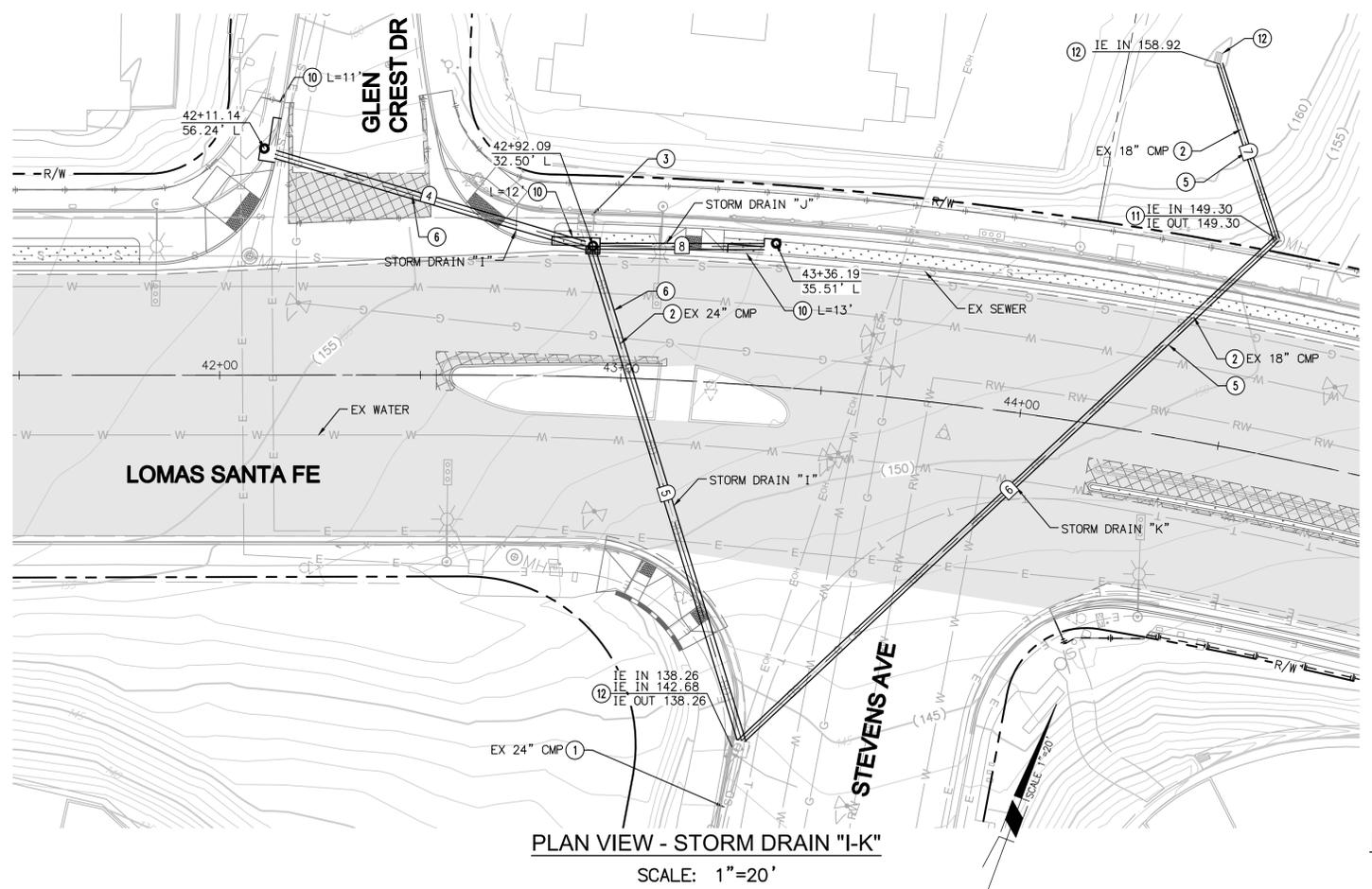
- STORM DRAIN NOTE**  
 ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.
- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
  - 3 REMOVE EXISTING STORM DRAIN INLET
  - 4 ABANDON EXISTING STORM DRAIN PIPE
  - 5 INSTALL 18" RCP STORM DRAIN
  - 9 CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
  - 10 CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
  - 14 REMOVE PORTION OF EXISTING STORM DRAIN IN CONFLICT WITH THE PROPOSED STORM DRAIN

STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N83°47'25"W	---	12.86'	18" RCP ~ CLASS II
2	N44°37'47"E	---	86.53'	18" RCP ~ CLASS II
3	N34°48'32"E	---	35.20'	18" RCP ~ CLASS II
4	N84°45'35"E	---	79.22'	24" RCP ~ CLASS II
5	N37°25'05"W	---	128.48'	24" RCP ~ CLASS II
6	N26°37'34"E	---	182.47'	18" RCP ~ CLASS II
7	N38°21'45"W	---	45.64'	18" RCP ~ CLASS II
8	N69°47'48"E	---	40.91'	18" RCP ~ CLASS II
9	N50°53'20"E	---	30.50'	18" RCP ~ CLASS II

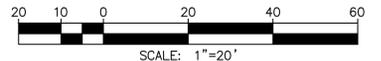
H. SCALE: 1"=20'  
 V. SCALE: 1"=4'



PLAN VIEW - STORM DRAIN "G" & "H"  
 SCALE: 1"=20'



PLAN VIEW - STORM DRAIN "I-K"  
 SCALE: 1"=20'



AS-BUILT  
 PLAN CODE: SD-2  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

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



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

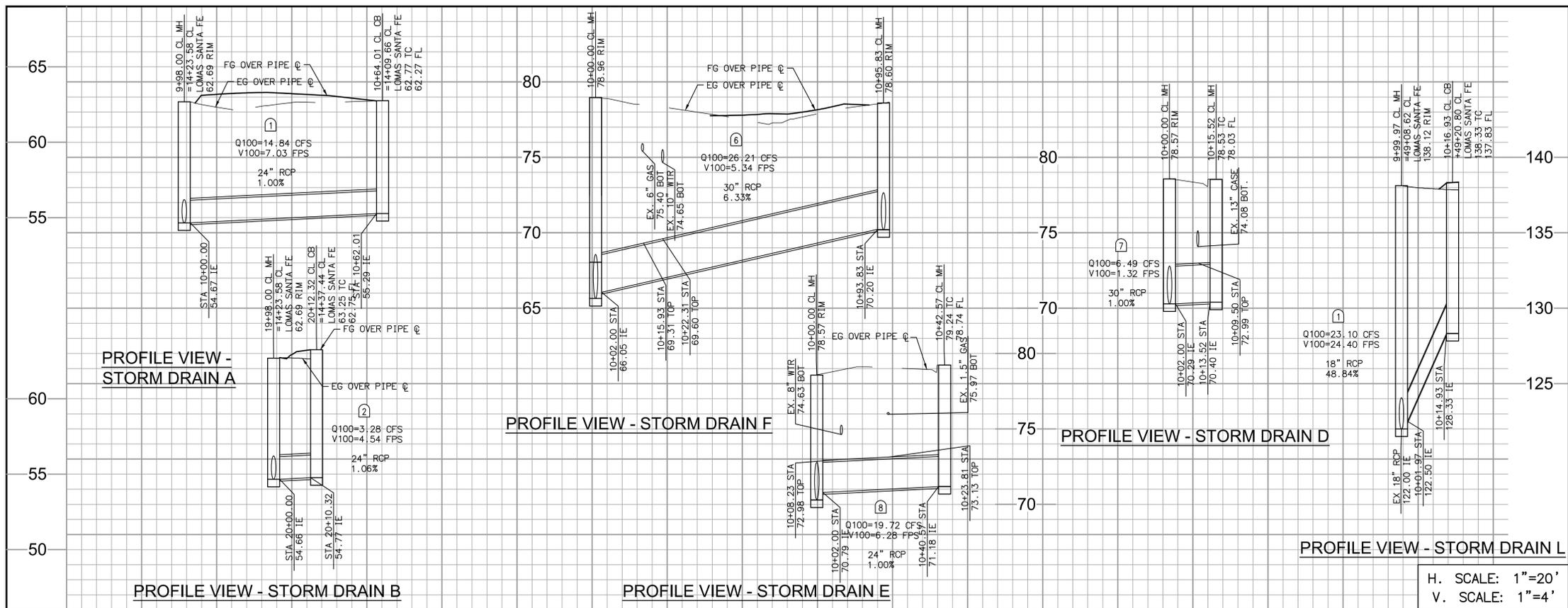
BENCH MARK  
 DESCRIPTION: \_\_\_\_\_ LOCATION: \_\_\_\_\_ ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 DRAINAGE PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
 Sheet 43 of 73

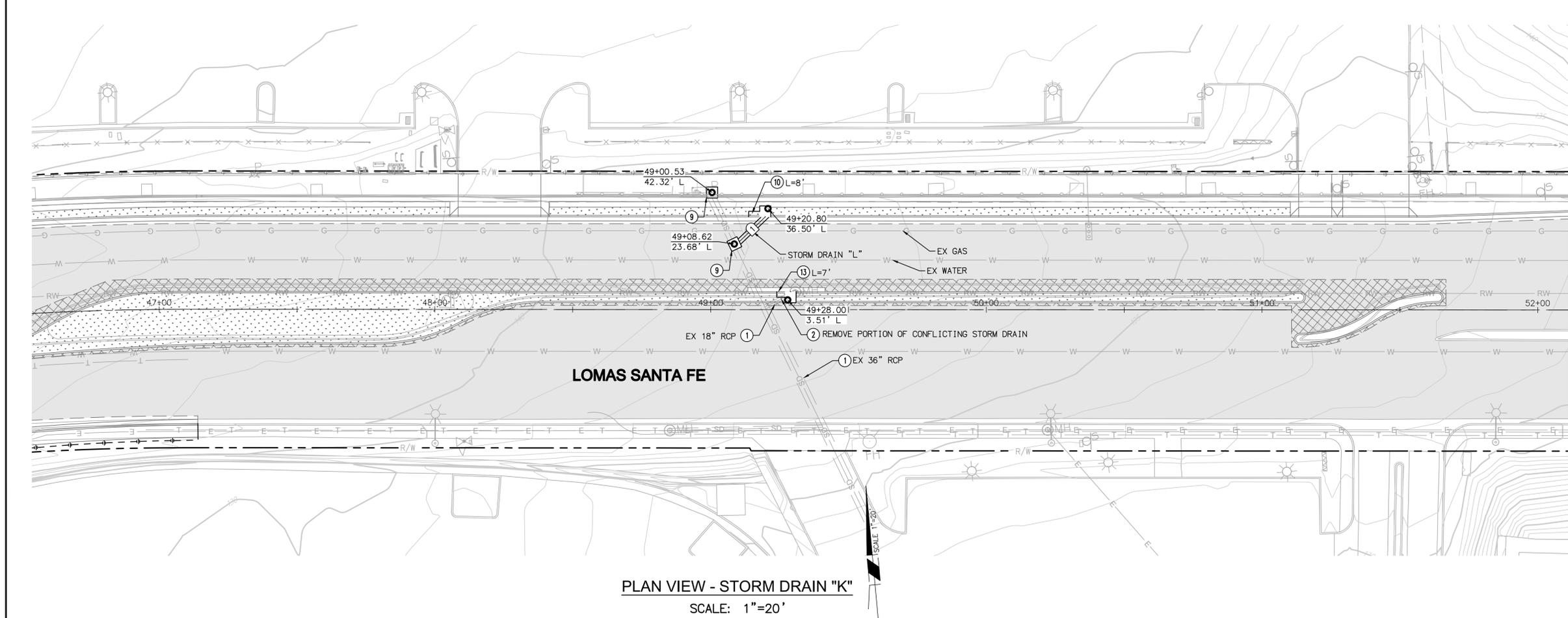
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



**STORM DRAIN NOTE**  
 ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

- CONSTRUCTION NOTES**
- ① PROTECT IN PLACE
  - ② REMOVE EXISTING STORM DRAIN PIPE
  - ⑨ CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
  - ⑩ CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
  - ⑬ CONSTRUCT TYPE J MEDIAN INLET WITH 4' WING PER SDRSD D-45.

H. SCALE: 1"=20'  
 V. SCALE: 1"=4'



STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N51°38'31"E	---	12.96'	18" RCP ~ CLASS III



AS-BUILT  
**PLAN CODE** By: \_\_\_\_\_ Date: \_\_\_\_\_  
 SD-3 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
 5050 Avenida Encinas  
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 Phone: (760) 476-9193  
 MBAKERINTL.COM



ENGINEER OF WORK  
 JOSH C. STONE RCE 60755 DATE \_\_\_\_\_

CITY APPROVED CHANGES  
 APP'D DATE \_\_\_\_\_

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
 By: Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

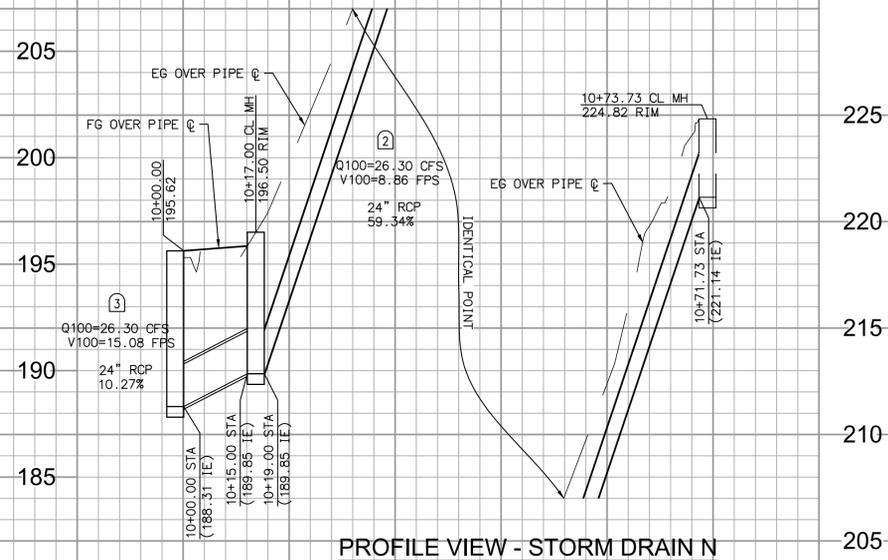
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 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
 DRAINAGE PLAN & PROFILE  
**CG-3185**  
 Drawing No. Sheet 44 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

H. SCALE: 1"=20'  
V. SCALE: 1"=4'



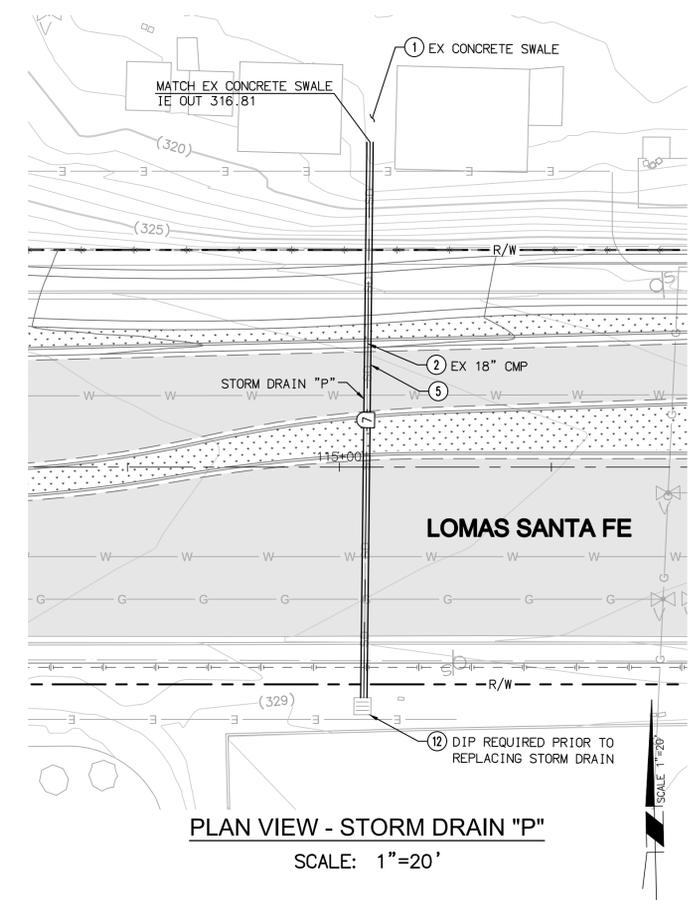
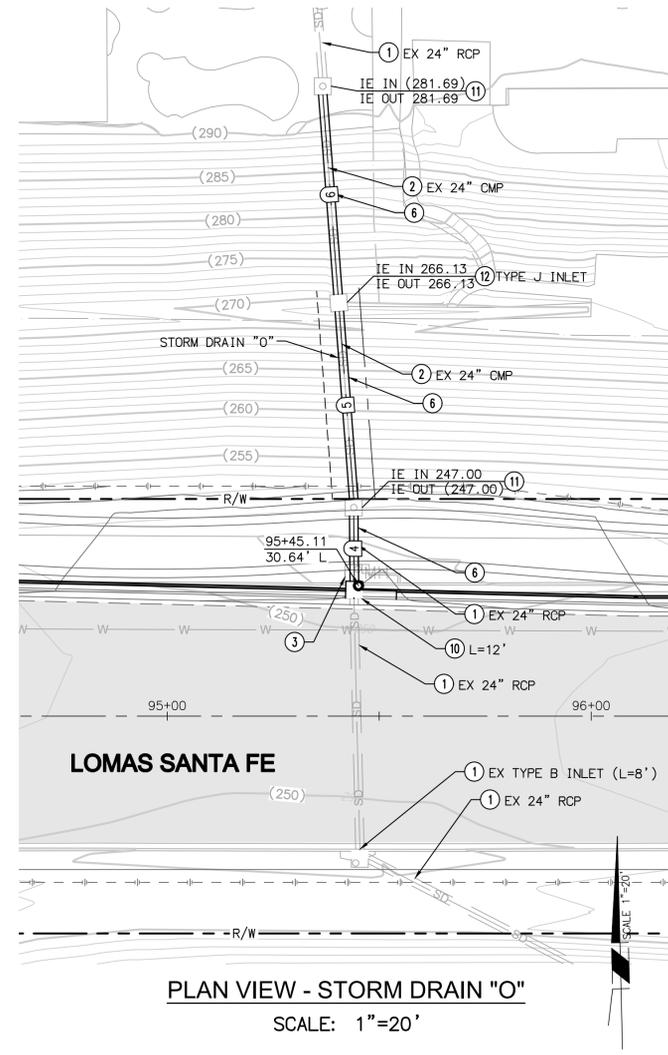
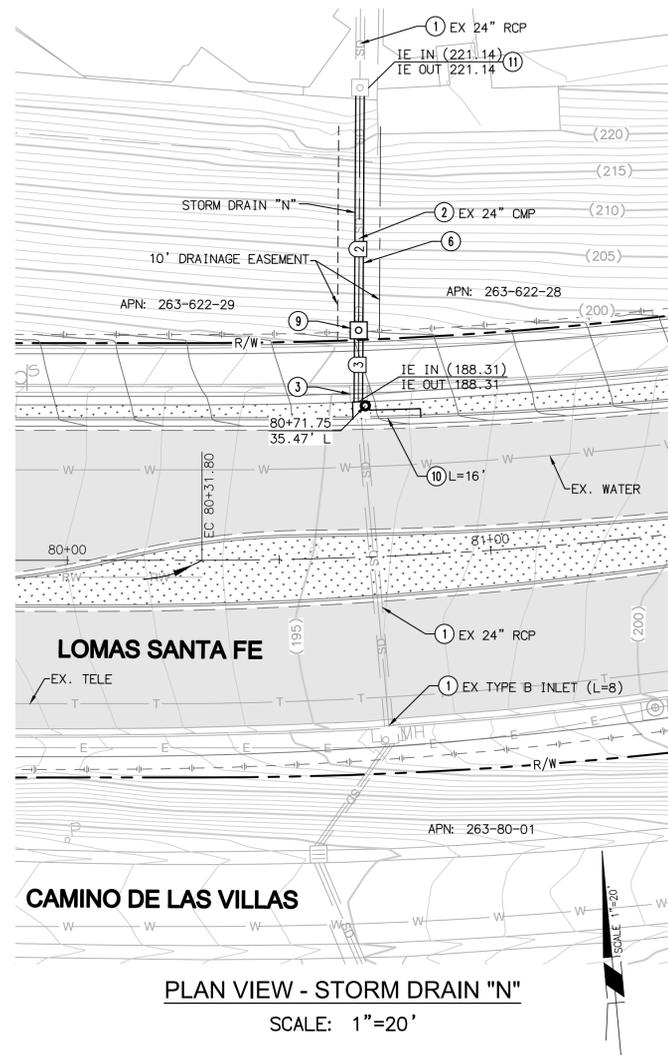
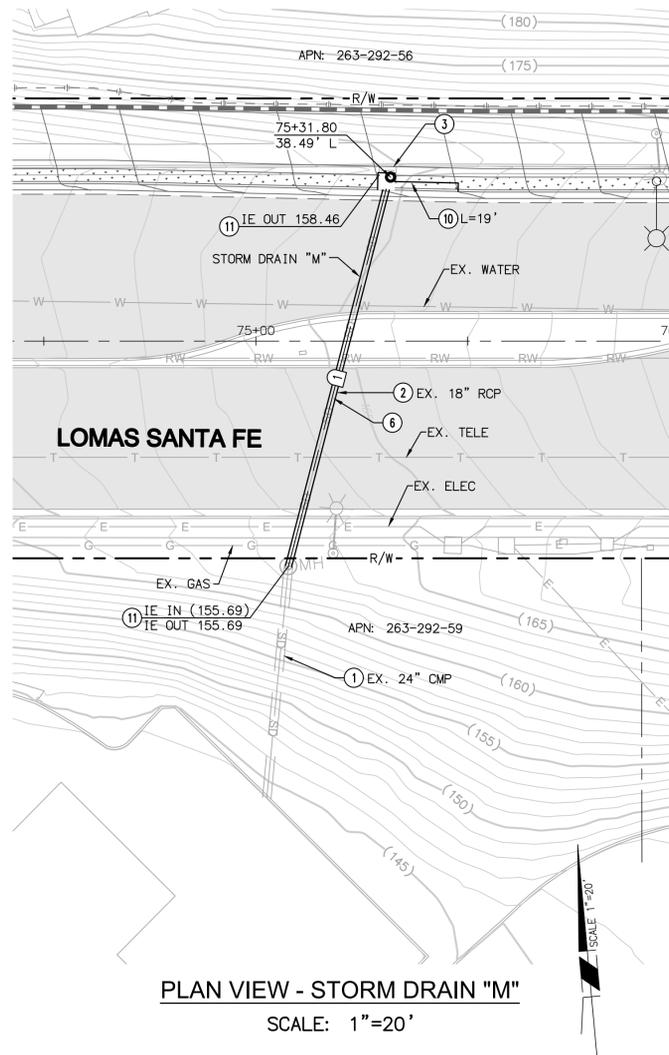
**CONSTRUCTION NOTES**

- ① PROTECT IN PLACE
- ② REMOVE EXISTING STORM DRAIN PIPE
- ③ REMOVE EXISTING STORM DRAIN INLET
- ④ INSTALL 24" RCP STORM DRAIN
- ⑤ CONSTRUCT TYPE A STORM DRAIN CLEANOUT PER SDRSD D-09
- ⑥ CONSTRUCT TYPE B CURB INLET PER SDRSD D-02
- ⑦ CONNECT PROPOSED STORM DRAIN TO EXISTING CLEANOUT

**STORM DRAIN NOTE**

ELEVATIONS ARE BASED ON AS-BUILT PLANS. CONTRACTOR TO FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE ARE DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING NEW PIPES.

STORM DRAIN DATA TABLE				
NO	BEARING/Delta	RADIUS	LENGTH	NOTE
1	N19°52'01"E	--	91.31'	24" RCP ~ CLASS II
2	N05°34'30"E	--	52.94'	24" RCP ~ CLASS II
3	N05°34'30"E	--	14.79'	24" RCP ~ CLASS II
4	N00°52'01"E	--	15.34'	24" RCP ~ CLASS II
5	N03°02'14"W	--	44.18'	24" RCP ~ CLASS II
6	N03°00'00"W	--	47.00'	24" RCP ~ CLASS II
7	N02°02'34"E	--	130.45'	24" RCP



**AS-BUILT**  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**PLAN CODE**  
SD-4

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



ENGINEER OF WORK  
JOSH C. STONE RCE 60755 DATE

CITY APPROVED CHANGES

APP'D DATE

RECOMMENDED FOR APPROVAL  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
By: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVED FOR CONSTRUCTION  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mohammad Sammak, City Engineer  
R.C.E.: 37146 Exp: 6/30/22

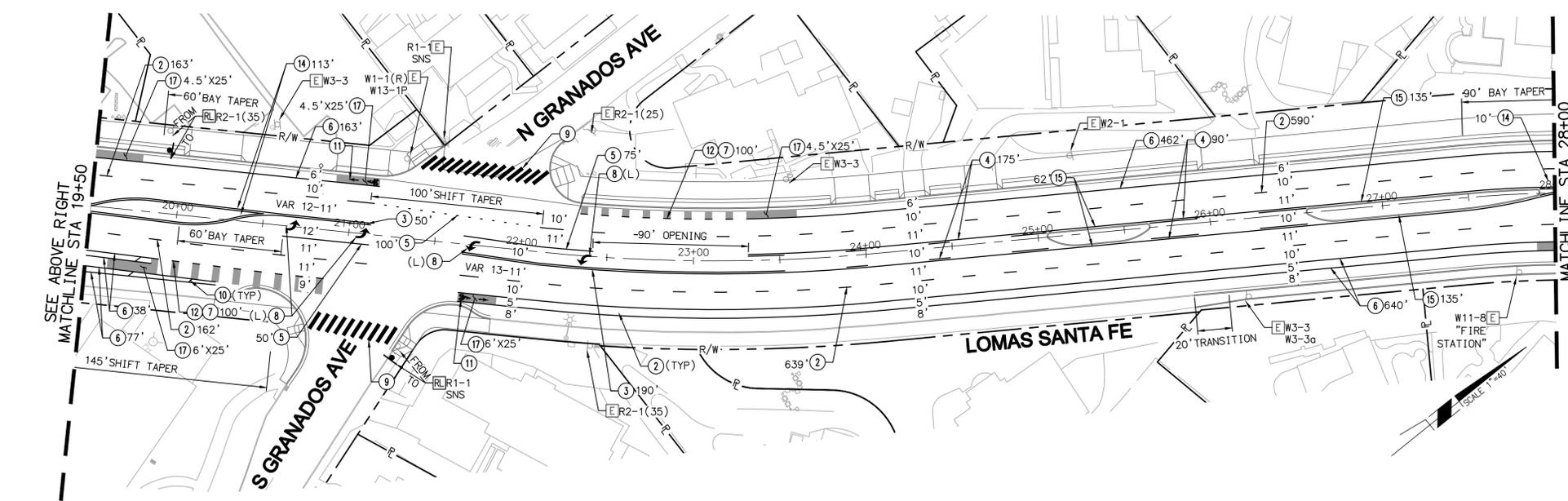
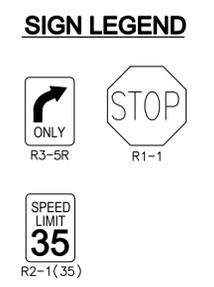
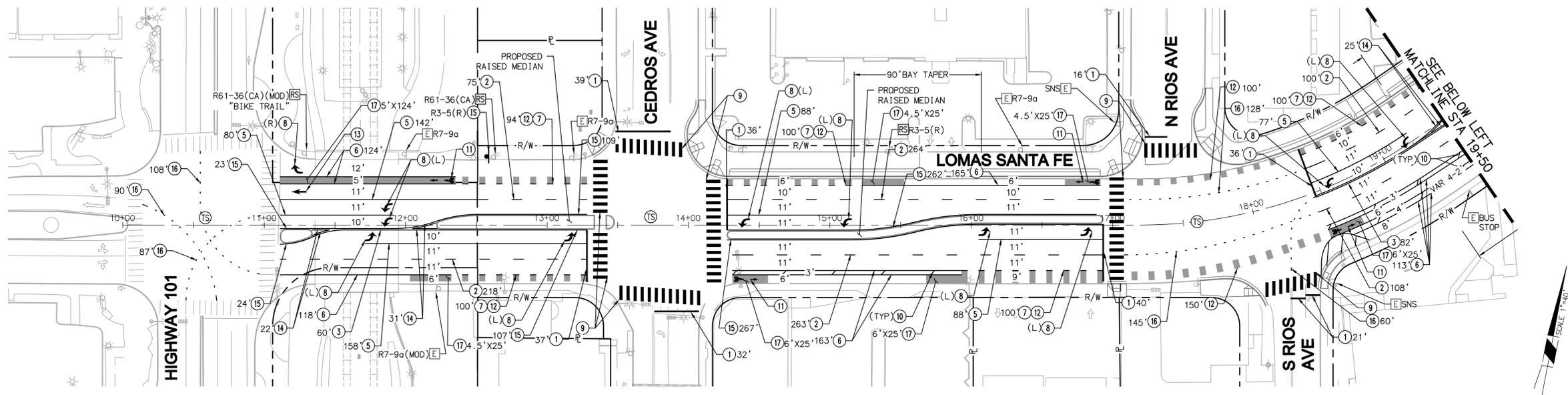
BENCH MARK  
DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
ELEV.: \_\_\_\_\_ DATUM: M.S.L.

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

ENGINEERING DEPARTMENT  
DRAINAGE PLAN & PROFILE

DRAWING NO.  
**CG-3185**  
Sheet 45 of 73

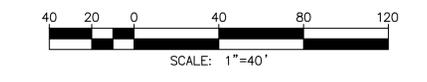
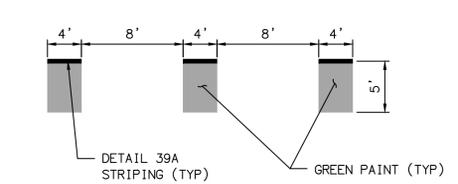
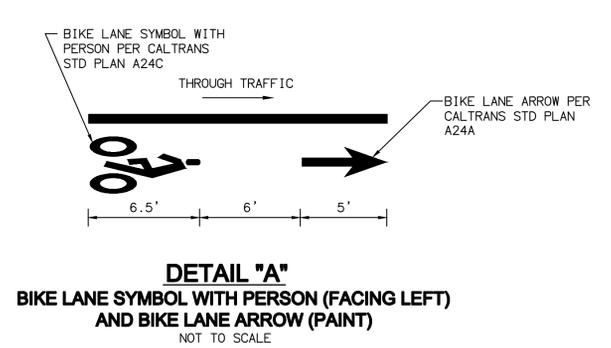
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- CONSTRUCTION NOTES**
- INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
  - INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
  - INSTALL 6" DOUBLE YELLOW LINE PER CALTRANS STD PLAN A20A, DETAIL 22.
  - INSTALL YELLOW TWO-WAY LEFT TURN LANE PER CLATTRANS STD PLAN A20B, DETAIL 32.
  - INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
  - INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
  - INSTALL 6" WHITE INTERSECTION BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
  - INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
  - INSTALL 24" WHITE CONTINENTAL CROSSWALK PER CALTRANS STD PLAN A24F.
  - INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
  - INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
  - INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
  - INSTALL WHITE TYPE I 10' ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
  - INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29.
  - INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
  - INSTALL 6" WHITE CENTER LINE EXTENSION THROUGH INTERSECTION LINE PER CALTRANS STD PLAN A20D, DETAIL 40.
  - INSTALL GREEN BIKE LANE PAINT.

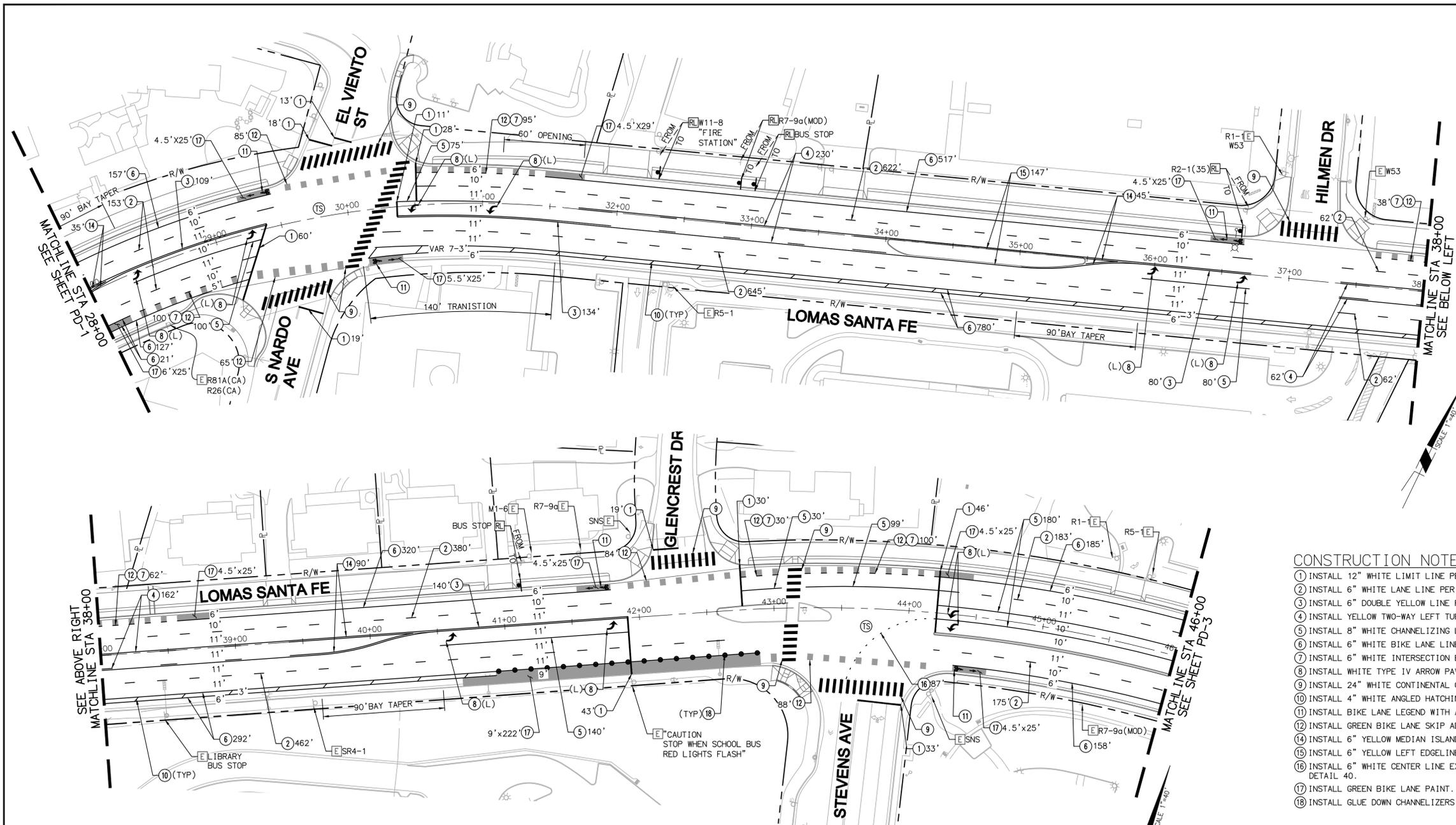
- LEGEND**
- [E] EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
  - [15] FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
  - [R] REFRESH EXISTING PAVEMENT MARKINGS
  - [RP] REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
  - [TS] EXISTING TRAFFIC SIGNAL
  - [RS] REMOVE AND SALVAGE SIGN
  - [RL] RELOCATE EXISTING TRAFFIC SIGN
  - [S] EXISTING SIGN
  - [P] PROPOSED SIGN
  - [PL] 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
  - 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.
  - 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 SIGNS.
  - EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.



AS-BUILT  
**PLAN CODE** PD-1  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

<b>Michael Baker INTERNATIONAL</b> 5050 Avenida Encinas Suite 260 Carlsbad, CA 92008 Phone: (760) 476-9193 MBAKERINTL.COM		ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT	DRAWING NO.
		RYAN K. ZELLERS RCE 69470			By: _____ Date: _____	By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			PAVEMENT DELINEATION PLAN



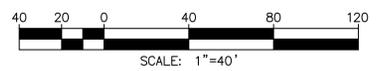
**CONSTRUCTION NOTES**

- 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.
- ④ INSTALL YELLOW TWO-WAY LEFT TURN LANE PER CALTRANS STD PLAN A20B, DETAIL 32.
- 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.
- ⑬ INSTALL 6" YELLOW MEDIAN ISLAND STRIPING PER CALTRANS STD PLAN A20B, DETAIL 29.
- ⑭ INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
- ⑮ INSTALL 6" WHITE CENTER LINE EXTENSION THROUGH INTERSECTION LINE PER CALTRANS STD PLAN A20D, DETAIL 40.
- ⑯ INSTALL GREEN BIKE LANE PAINT.
- ⑰ INSTALL GLUE DOWN CHANNELIZERS PER CALTRANS STD PLAN A73C.

- LEGEND**
- [E] EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
  - [TS] FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
  - [R] REFRESH EXISTING PAVEMENT MARKINGS
  - [R] REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
  - [TS] EXISTING TRAFFIC SIGNAL
  - [R] REMOVE AND SALVAGE SIGN
  - [R] RELOCATE EXISTING TRAFFIC SIGN
  - [E] EXISTING SIGN
  - [P] PROPOSED SIGN
  - [P] 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**
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.
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  4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

**SIGN LEGEND**



AS-BUILT  
**PLAN CODE** PD-2  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker International**  
 5050 Avenida Encinas Suite 260  
 Carlsbad, CA 92008  
 Phone: (760) 476-9193  
 M.BAKERINTL.COM

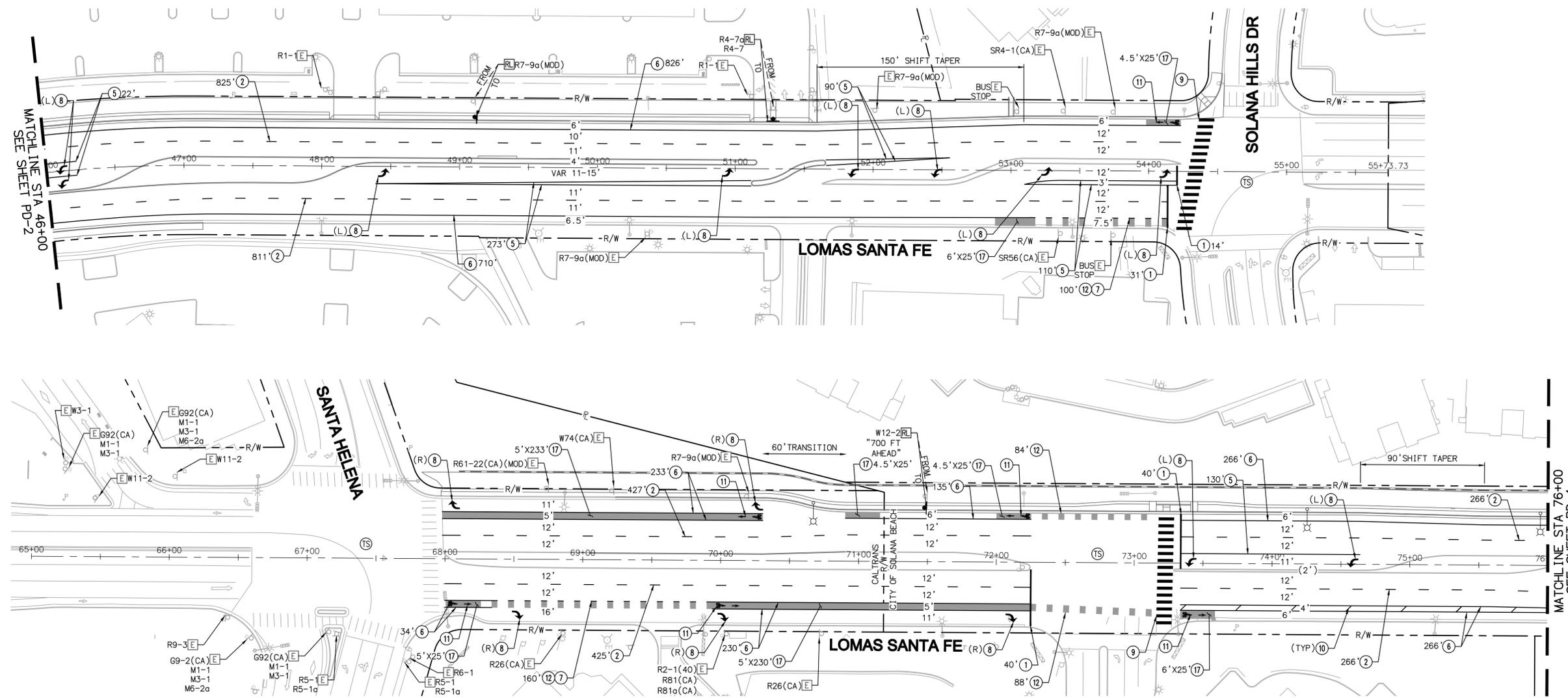
ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. <b>CG-3185</b> Sheet 47 of 73
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**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.

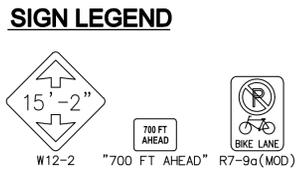
**TAPER LENGTH CALCULATION**

- SHIFT TAPER  
 $L = WS^2/60 = 5.5 \times 40^2 / 60 = 146.7'$  USE 150'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED
- SHIFT TAPER  
 $L = WS^2/60 = 2 \times 40^2 / 60 = 53.3'$  USE 90'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED

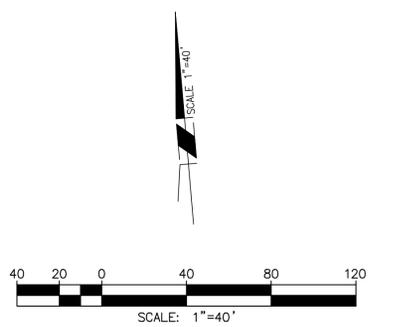


- LEGEND**
- [E] EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
  - [TS] FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
  - [R] REFRESH EXISTING PAVEMENT MARKINGS
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  - [TS] EXISTING TRAFFIC SIGNAL
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  - [ ] EXISTING SIGN
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  - [ ] PROPOSED SIGN (ON STREET LIGHT)
  - (12')
  - 12'
  - SNS STREET NAME SIGN
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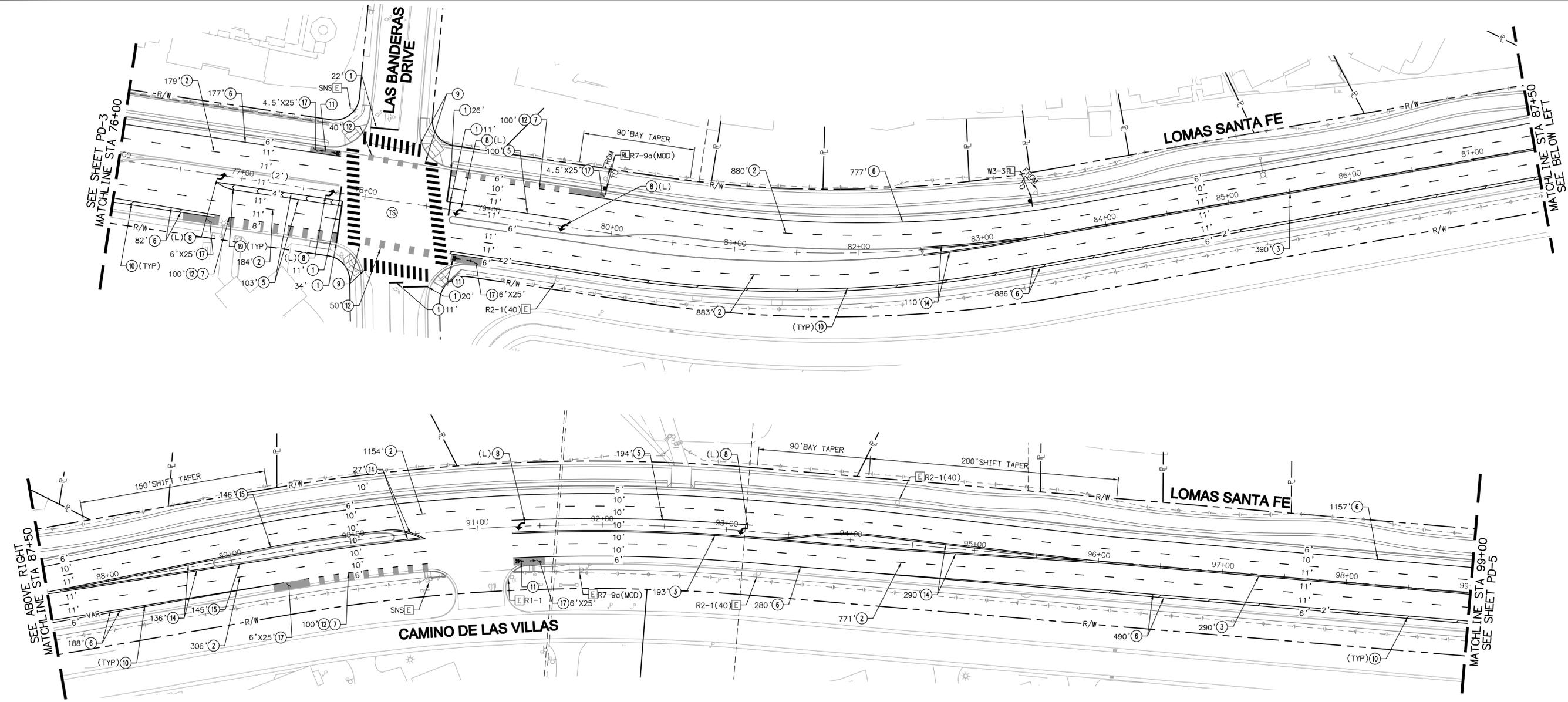
- CONSTRUCTION NOTES**
- INSTALL 12" WHITE LIMIT LINE PER CALTRANS STD PLAN A24E.
  - INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
  - INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
  - INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
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  - INSTALL WHITE TYPE IV ARROW PAVEMENT MARKING PER CALTRANS STD PLAN A24A.
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  - INSTALL 4" WHITE ANGLED HATCHING AT 45 DEGREES, AT 40' SPACING.
  - INSTALL BIKE LANE LEGEND WITH ARROW MARKING PER DETAIL "A" ON SHEET PD-1.
  - INSTALL GREEN BIKE LANE SKIP ADJACENT TO DETAIL 39A PER DETAIL "B" ON SHEET PD-1.
  - INSTALL GREEN BIKE LANE PAINT.



AS-BUILT  
**PLAN CODE** PD-3  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

<b>Michael Baker INTERNATIONAL</b> 5050 Avenida Encinas Suite 260 Carlsbad, CA 92008 Phone: (760) 476-9193 MBAKERINTL.COM		ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
		RYAN K. ZELLERS RCE 69470			By: _____ Date: _____	By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	PAVEMENT DELINEATION PLAN

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- LEGEND**
- E EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
  - S FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
  - R REFRESH EXISTING PAVEMENT MARKINGS
  - R REMOVE EXISTING, CONFLICTING PAVEMENT MARKINGS
  - S EXISTING TRAFFIC SIGNAL
  - R REMOVE AND SALVAGE SIGN
  - R RELOCATE EXISTING TRAFFIC SIGN
  - S EXISTING SIGN
  - P PROPOSED SIGN
  - P 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

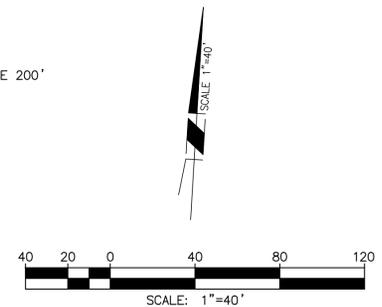
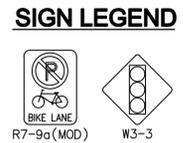
- GENERAL SIGNING AND STRIPING NOTES**
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  4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.

- CONSTRUCTION NOTES**
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  - ② INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
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  - 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.
  - ⑯ INSTALL GREEN BIKE LANE PAINT.
  - ⑰ INSTALL 4" WHITE CHEVRON STRIPING, AT 20' SPACING.

**TAPER LENGTH CALCULATION**

1. SHIFT TAPER  
 $L = WS^2/60 = 5 \times 40^2 / 60 = 133.3'$  USE 150'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED

2. SHIFT TAPER  
 $L = WS^2/60 = 5.5 \times 40^2 / 60 = 146.7'$  USE 200'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED

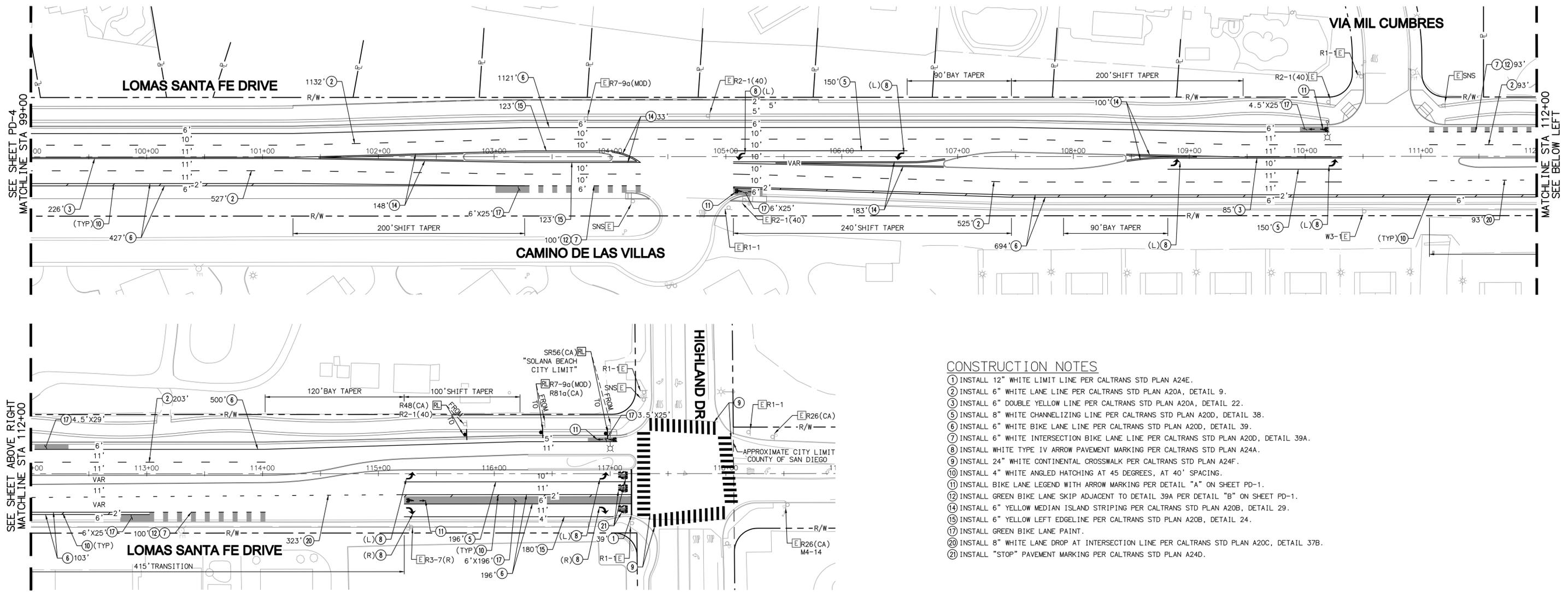


AS-BUILT  
**PLAN CODE** PD-4  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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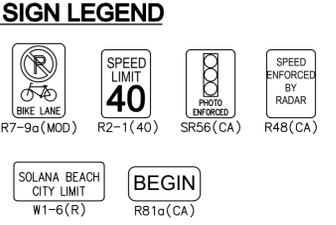
ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE _____	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____ By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: _____ Date: _____ Mohammad Sommak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. <b>CG-3185</b> Sheet 49 of 73
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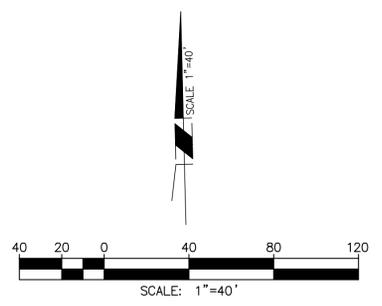
- ### CONSTRUCTION NOTES
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  - ② INSTALL 6" WHITE LANE LINE PER CALTRANS STD PLAN A20A, DETAIL 9.
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  - ⑤ INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38.
  - ⑥ INSTALL 6" WHITE BIKE LANE LINE PER CALTRANS STD PLAN A20D, DETAIL 39.
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  - ⑮ INSTALL 6" YELLOW LEFT EDGELINE PER CALTRANS STD PLAN A20B, DETAIL 24.
  - ⑰ INSTALL GREEN BIKE LANE PAINT.
  - ⑳ INSTALL 8" WHITE LANE DROP AT INTERSECTION LINE PER CALTRANS STD PLAN A20C, DETAIL 37B.
  - ㉑ INSTALL "STOP" PAVEMENT MARKING PER CALTRANS STD PLAN A24D.

- ### LEGEND
- EXISTING SIGN TO REMAIN (UNLESS OTHERWISE NOTED)
  - FURNISH & INSTALL SIGN(S) & POST (IF APPLICABLE)
  - 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

- ### 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 SIGNS.
  4. EXISTING CURB PAINT TO BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.



- ### TAPER LENGTH CALCULATION
1. SHIFT TAPER  
 $L = WS^2/60 = 3 \times 40^2/60 = 80'$  USE 200'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED
  2. SHIFT TAPER  
 $L = WS^2/60 = 9 \times 40^2/60 = 240'$  USE 240'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED
  3. SHIFT TAPER  
 $L = WS^2/60 = 4 \times 40^2/60 = 106.7'$  USE 200'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED
  4. SHIFT TAPER  
 $L = WS^2/60 = 3 \times 40^2/60 = 80'$  USE 100'  
 L=LENGTH OF TRANSITION  
 W=OFFSET  
 S=DESIGN SPEED



AS-BUILT  
**PLAN CODE** PD-5  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

**Michael Baker INTERNATIONAL**  
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 M.BAKER@INTL.COM

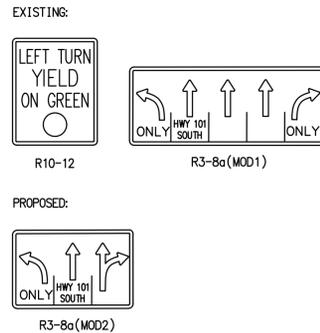


ENGINEER OF WORK RYAN K. ZELLERS RCE 69470 DATE	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL By: _____ Date: _____	APPROVED FOR CONSTRUCTION By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	BENCH MARK DESCRIPTION: _____ LOCATION: _____ ELEV.: _____ DATUM: M.S.L.	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT PAVEMENT DELINEATION PLAN	DRAWING NO. <b>CG-3185</b> Sheet 50 of 73
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* CONDUCTOR SCHEDULE										
ANG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS								
		1	2	3	4	5	6	7	8	
12 CSC	POLE A	Ø2, Ø3, Ø2P, Ø4P								
	POLE B	Ø2PPB, Ø4PPB								
	POLE C	Ø3, Ø8, Ø8P, Ø2PPB								
	POLE D	Ø8PPB								
	POLE E	Ø6, Ø2P								
	POLE F	Ø6, Ø6P, Ø8PPB								
	POLE G	Ø7, Ø8P, Ø6PPB								
	POLE H	Ø4, Ø6, Ø7, Ø4P								
	POLE I	Ø4PPB, Ø6PPB								
	POLE J	Ø2, Ø6P								
3 CSC	TOTAL		1	2	1	4	1	2	7	7
#12	IISNS		2							
#10	SAFETY LIGHTING (LTG)			2	4	2	4			
#8	GROUND (ØND)		1	1	1	1	1	1	1	1
#6	SERVICE (SVC)				2		4	2	2	
TYPE B DLC	Ø2				4					
	Ø3		1	1		1			1	1
	Ø4									2
	Ø6						3	3	3	
	Ø7									1
Ø8		4	4		4			4	4	
	TOTAL DLCs		5	5	4	11	3	12	15	
	EVP CABLE (3M MODEL 138 CABLE)		1		2		3	3		
	SIGNAL INTERCONNECT (6PR#20)		1	1		2		2	2	
	CONDUIT SIZE (INCHES)		3"	3"	3"	3"	3"	2-3"	2-3"	
	CONDUIT FILL (%)		17	30	14	52	10	27	39	45

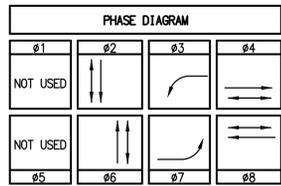
\*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:  
 (●) = NEW

**SIGN LEGEND**



**CONSTRUCTION NOTES**

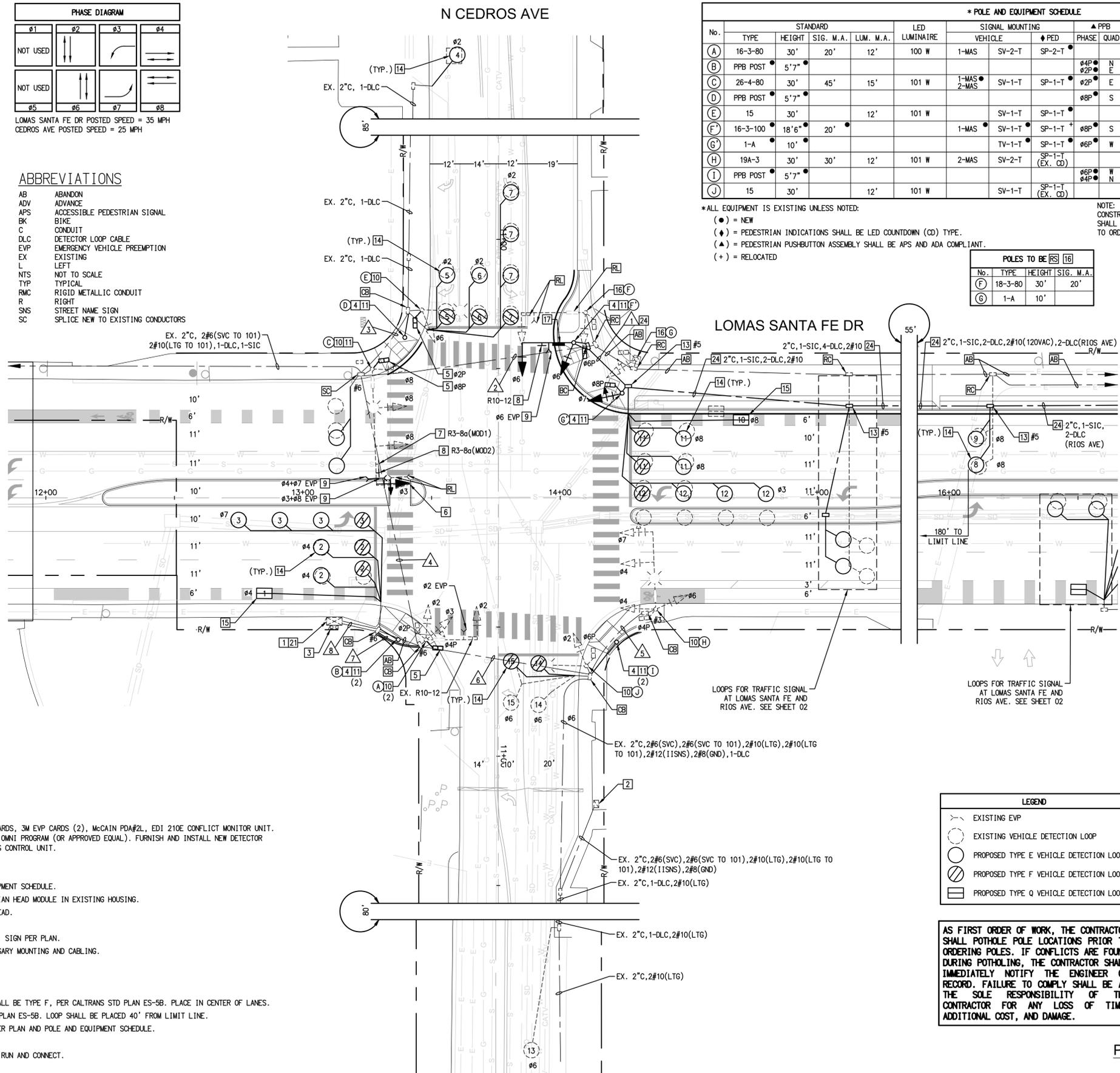
- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 DETECTOR CARDS, 3M EVP CARDS (2), McCain PDA#2L, ED1 210E CONFLICT MONITOR UNIT.
- EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OWNIT PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- EXISTING BBS TO REMAIN. BBS SYSTEM IS DIMENSIONS WITH 4 BATTERIES.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- EXISTING PEDESTRIAN HEAD MODULE. FURNISH AND INSTALL NEW LED COUNTDOWN TYPE PEDESTRIAN HEAD MODULE IN EXISTING HOUSING.
- EXISTING 4 SECTION VEHICLE HEAD. FURNISH AND INSTALL 3 SECTION ARROW TYPE VEHICLE HEAD.
- EXISTING SIGN PER PLAN.
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4'X 6' TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- FURNISH AND INSTALL PVC CONDUIT WITH MALE TAPE, SIZE PER PLAN.



LOMAS SANTA FE DR POSTED SPEED = 35 MPH  
 CEDROS AVE POSTED SPEED = 25 MPH

**ABBREVIATIONS**

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- SNS STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS



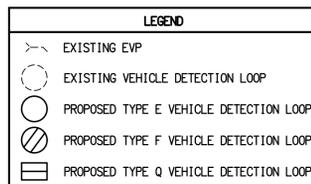
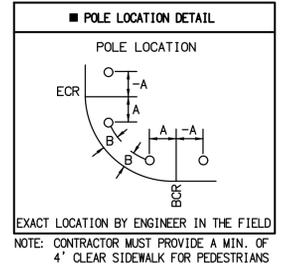
* POLE AND EQUIPMENT SCHEDULE											
No.	TYPE	STANDARD			LED LUMINAIRE	SIGNAL MOUNTING			POLE LOCATION	IISNS	REMARKS
		HEIGHT	SIG. M. A.	LUM. M. A.		VEHICLE	PEDESTRIAN	PHASE			
(A)	16-3-80	30'	20'	12'	100 W	1-MAS	SV-2-T	SP-2-T	EXISTING	Lomas Santa Fe Dr	
(B)	PPB POST	5'7"									
(C)	26-4-80	30'	45'	15'	101 W	1-MAS	SV-1-T	SP-1-T	EXISTING	North Cedros Ave	
(D)	PPB POST	5'7"									
(E)	15	30'					SV-1-T	SP-1-T	EXISTING		
(F)	16-3-100	18'6"	20'			1-MAS	SV-1-T	SP-1-T		Lomas Santa Fe Dr	
(G)	1-A	10'					TV-1-T	SP-1-T			
(H)	19A-3	30'	30'	12'	101 W	2-MAS	SV-2-T	SP-1-T (EX. CD)	EXISTING	South Cedros Ave	
(I)	PPB POST	5'7"									
(J)	15	30'					SV-1-T	SP-1-T (EX. CD)	EXISTING		

\*ALL EQUIPMENT IS EXISTING UNLESS NOTED:  
 (●) = NEW  
 (♦) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.  
 (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.  
 (+) = RELOCATED

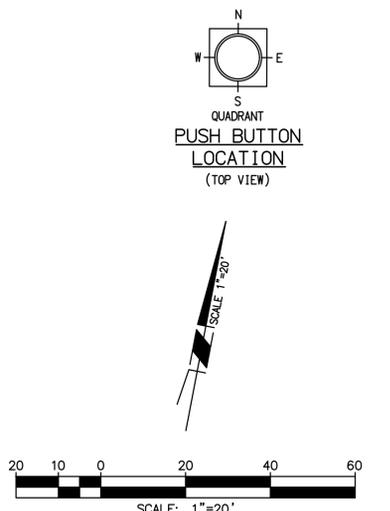
NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.

POLES TO BE [R] [16]			
No.	TYPE	HEIGHT	SIG. M. A.
(F)	18-3-80	30'	20'
(G)	1-A	10'	

DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD TERMINAL	
1	4 BK	16U	T4-9 & 10	
2	4	16L	T4-11 & 12	
3	7	J5U	T5-5 & 6	
4	2 ADV	12L	T2-7 & 8	
5	2 RT	12U	T2-5 & 6	
6	2	13U	T2-9 & 10	
7	2 LT	13L	T2-11 & 12	
8	8 ADV	J6U	T5-9 & 10	
9	8 ADV	J6L	T5-11 & 12	
10	8 BK	J7U	T7-1 & 2	
11	8	J7L	T7-3 & 4	
12	3	15U	T4-5 & 6	
13	6 ADV	J3U	T3-9 & 10	
14	6	J3L	T3-11 & 12	
15	6 LT	J4U	T5-1 & 2	



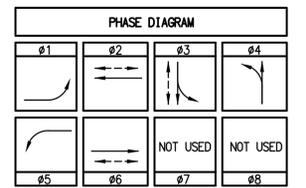
AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.



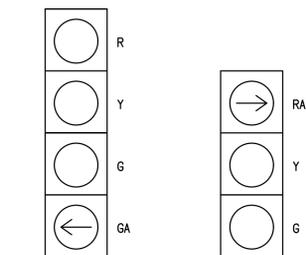
PLAN CODE: **TS-1**  
 AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & CEDROS AVE	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675			By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			DESCRIPTION: LOCATION: ELEV.: DATUM: M.S.L.	

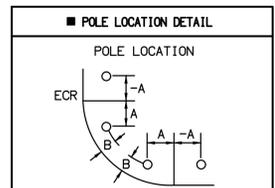
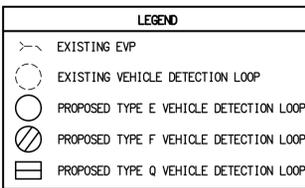
* CONDUCTOR SCHEDULE														
ANG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS												
		1	2	3	4	5	6	7	8	9	10			
12 CSC	POLE A' #3P, #3PPB									1	1			
	POLE B #2P, #2PPB									1	1			
	POLE C #2, #2PPB			1	1	1					1	1		
	POLE D #1, #2, #4, #5										2	2		
	POLE E' #4										1	1		
	POLE F #2, #6, #6P, #6PPB										1	1		
	POLE G #6PPB										1	1		
	POLE H #1, #3, #5, #6, #6P										2	2		
	POLE I #3, #5, #3P, #3PPB										1	1		
TOTAL		1	1	4	1	1	1	3	3	4	3	4	10	6
#10	IISNS	2	2											
	SAFETY LIGHTING (LTG)		2											
#8	GROUND (GND)	1	1	1										
#6	SERVICE (SVC)									2	2	2	2	
TYPE B DLC	#1									1	1	1		
	#2	4	4											4
	#3			1										1
	#4				2	2	2	2	2	2				2
	#5	1	1											1
	#6										4	4	4	4
	TOTAL DLCs	5	5	3	2	2	2	2	7	7	13	13		
EVP CABLE (3M MODEL 138 CABLE)	1	2	1	1	1	1	2	2	4					
SIGNAL INTERCONNECT (6PR#20)										1	2			
CONDUIT SIZE (INCHES)		3"	2"	3"	2"	2"	2.5"	2.5"	3"	3"	2-3"			
CONDUIT FILL (%)		13	20	36	23	24	43	46	46	54	49			



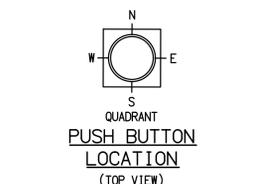
LOMAS SANTA FE DR POSTED SPEED = 35 MPH  
EL VIENTO ST/NARDO AVE POSTED SPEED = 25 MPH



DETAIL "A" 4-SECTION VEHICLE HEAD  
DETAIL "B" 3-SECTION VEHICLE HEAD



EXACT LOCATION BY ENGINEER IN THE FIELD  
NOTE: CONTRACTOR MUST PROVIDE A MIN. OF 4' CLEAR SIDEWALK FOR PEDESTRIANS



* POLE AND EQUIPMENT SCHEDULE														
No.	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED LUMINAIRE	SIGNAL MOUNTING		PPB	POLE LOCATION		IISNS	REMARKS		
						VEHICLE	PED		PHASE	QUAD			A	B
(A)	15 TS	30'		15'	101 W			SP-1-T	#3P	E	5'	6'		
(B)	1-A	7'						TP-1-T	#2P	S	1.5'	6'		
(C)	1-A	7'						TP-1-T	#2P	S	8'	8'		
(D)	24-4-70	30'	55'	15'	101 W	2-MAS	SV-3-TA				EXISTING	Rios Avenue		
(E)	16-3-100	17'	20'			1-MAS-4B	SV-1-T				SEE PLAN	3.5'	Lomas Santa Fe Dr +	
(F)	15 TS	30'		15'	101 W		SV-1-T	SP-1-T (EX. CD)	#6P	N			EXISTING	
(G)	PPB POST	5'7"						SP-1-T (EX. CD)	#6P	S	10'	8'	EXISTING	
(H)	26-4-70	30'	35'	15'	101 W	2-MAS	SV-3-TA	SP-1-T (EX. CD)					EXISTING	Rios Avenue
(I)	16-2-70	17'	20'			1-MAS-4B	SV-2-T	SP-1-T (EX. CD)	#3P	W			EXISTING	Lomas Santa Fe Dr

\*ALL EQUIPMENT IS EXISTING UNLESS NOTED:

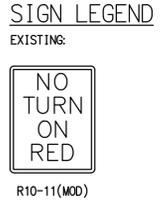
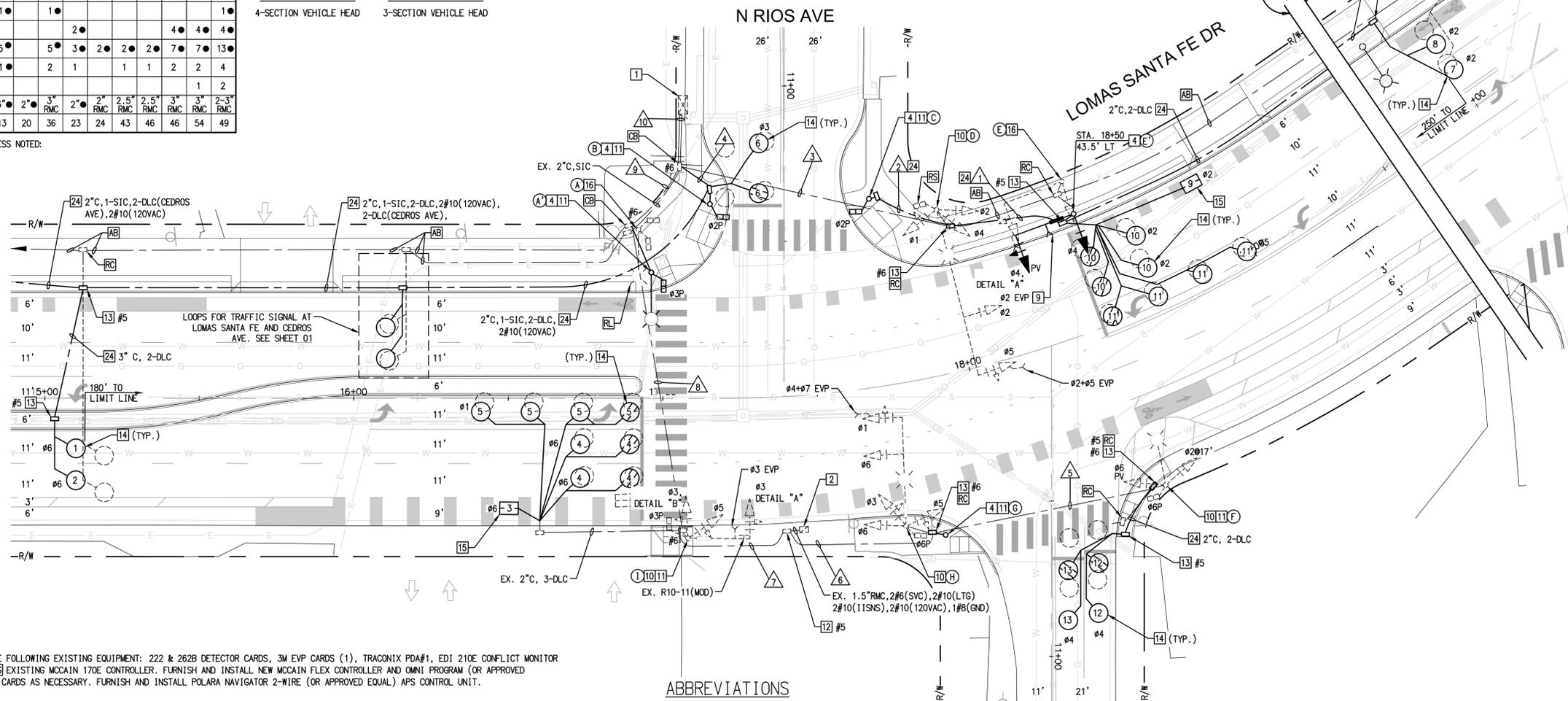
- (●) = NEW
- (◆) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.
- (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.
- (+) = RELOCATE

POLES TO BE [RS]		
No.	TYPE	HEIGHT
(A)	15	30'
(E)	16-3-70	20'

NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.

DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	2 ADV	I2L	T2-7 & 8	
2	2 ADV	I2U	T2-5 & 6	
3	2 BK	I3U	T2-9 & 10	
4	2	I3L	T2-11 & 12	
5	5	J5U	T3-1 & 2	
6	3	I5U	T4-5 & 6	
7	6 ADV	J3U	T3-9 & 10	
8	6 ADV	J3L	T3-11 & 12	
9	6 BK	J4U	T5-1 & 2	
10	6	J4L	T5-3 & 5	
11	1	I1U	T2-1 & 2	
12	4	I6U	T4-9 & 10	
13	4	I6L	T4-11 & 12	

\*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:  
(●) = NEW  
(RMC) = RIGID METALLIC CONDUIT



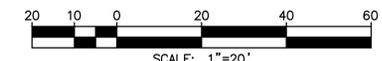
AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

**CONSTRUCTION NOTES**

- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 & 262B DETECTOR CARDS, 3M EVP CARDS (1), TRACONIX PDA#1, EDI 210E CONFLICT MONITOR UNIT, DIMENSIONS BBS WITH 4 BATTERIES. [RS] EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OMNI PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- [RS] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [RC] EXISTING PULL BOX LID. FURNISH AND INSTALL NEW PULL BOX LID PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E. LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4X6 TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40" FROM LIMIT LINE.
- [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. RL EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- FURNISH AND INSTALL PVC CONDUIT WITH MALE TAPE, SIZE PER PLAN.

**ABBREVIATIONS**

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- STN STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS



PLAN CODE AS-BUILT  
TS-2  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

<p>5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM</p>	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & RIOS AVE	ENGINEERING DEPARTMENT	DRAWING NO.
	CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		ELEV: _____ DATUM: M.S.L.	

* CONDUCTOR SCHEDULE														
ANG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS												
		1	2	3	4	5	6	7	8					
12 CSC	POLE A	#3, #8, #6P, #6FPB												
	POLE B	#5, #8P, #8FPB												
	POLE C	#2, #5, #2P, #8FPB												
	POLE D	#4, #7, #P, #2FPB												
	POLE E	#4, #7												
	POLE F	#1, #2P, #2FPB												
	POLE G	#1, #2, #3, #6, #8, #6P, #6FPB												
3 CSC	POLE H	FIRE STATION EVP												
TOTAL			2	1	3	2	4	3	2	1	8	8	8	6
#10	SAFETY LIGHTING		2	2	2	2	2	2	2	2				
#8	GROUND		1	1	1	1	1	1	1	1	1	1	1	1
#6	SERVICE												2	
TYPE B DLC	#1										1	1		
	#2		4	4	4						4	4		
	#3			1	1						1	1		
	#4										2	2		
	#5		1	1	1						1	1		
	#6										2	4		
	#7										1	1		
	#8										1	1		
TOTAL DLCs		5	7	7	3					13	15			
EVP CABLE (3M MODEL 138 CABLE)			1	1	2	2	2	5	5					
SIGNAL INTERCONNECT (6PR#20)										2				
CONDUIT SIZE (INCHES)			3"	3"	3"	3"	3"	2-3"	2-3"					
CONDUIT FILL (%)			23	33	42	22	19	41	45					

\*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:  
 (●) = NEW  
 (RMC) = RIGID METALLIC CONDUIT

LEGEND	
	EXISTING EVP
	EXISTING VEHICLE DETECTION LOOP
	PROPOSED TYPE E VEHICLE DETECTION LOOP
	PROPOSED TYPE F VEHICLE DETECTION LOOP
	PROPOSED TYPE Q VEHICLE DETECTION LOOP

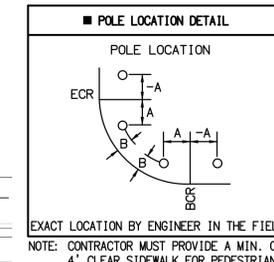
AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

ABBREVIATIONS	
AB	ABANDON
ADV	ADVANCE
APS	ACCESSIBLE PEDESTRIAN SIGNAL
BK	BIKE
C	CONDUIT
DLC	DETECTOR LOOP CABLE
EVP	EMERGENCY VEHICLE PREEMPTION
EX	EXISTING
L	LEFT
NTS	NOT TO SCALE
TYP	TYPICAL
RMC	RIGID METALLIC CONDUIT
R	RIGHT
SNS	STREET NAME SIGN
SC	SPLICE NEW TO EXISTING CONDUCTORS

* POLE AND EQUIPMENT SCHEDULE													
No.	TYPE	STANDARD			LED LUMINAIRE	SIGNAL MOUNTING			PHASE QUAD	POLE LOCATION		MAST ARM MOUNTED SNS	REMARKS
		HEIGHT	SIG. M.A.	LUM. M.A.		VEHICLE	PED	A		B			
(A)	26-4-100	30'	35'	15'	101 W	1-MAS-5A	SV-2-T	SP-1-T	#6P	S	33'	6'	Lomas Santa Fe Dr
(B)	1-A	10'				TV-1-T		SP-1-T (EX. CD)	#8P	W	9'	6'	
(C)	26-4-70	30'	45'	12'	101 W	2-MAS	SV-1-T	SP-1-T	#8P	W	EXISTING		Nardo Ave
(D)	1-A	10'				TV-1-T		SP-1-T (EX. CD)	#2P	N	4'	6'	
(E)	17-2-100	30'	20'	15'	101 W	1-MAS-5A	SV-1-T	SP-1-T	#8P	W	12'	6'	Lomas Santa Fe Dr
(F)	1-A	10'				TV-1-T		SP-1-T	#2P	S	23'	6'	
(G)	26-4-70	30'	40'	12'	101 W	2-MAS	SV-1-T	SP-1-T	#6P	S	EXISTING		Nardo Ave EL VIENTO
(H)	1-A	10'				TV-1-T		SP-1-T	#6P	S	EXISTING		TOP MOUNTED EVP DETECTOR

\*ALL EQUIPMENT IS EXISTING UNLESS NOTED:  
 (●) = NEW  
 (◆) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.  
 (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.  
 (+) = RELOCATED

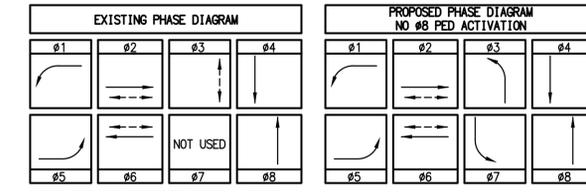
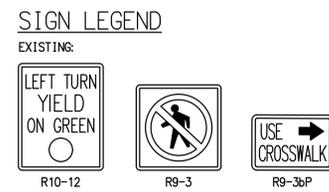
NOTE:  
 CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.



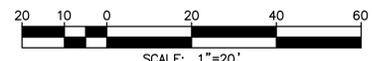
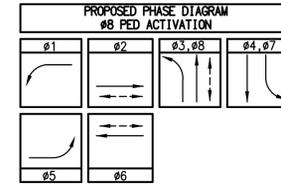
POLES TO BE			
No.	TYPE	HEIGHT	SIG. M.A.
(A)	26-4-70	30'	45'
(D)	1-A	10'	
(E)	17-2-70	30'	20'
(F)	1-A	10'	

DETECTOR ASSIGNMENT				
PHASE	DETECTOR	INPUT ASSEMBLY	FITA*	
#1	13	IA1 - I/O 6	FITA1, FIT1, 1-2	
#2 ADV	1	IA1 - I/O 8	FITA1, FIT2, 1-2	
#2 ADV	2	IA1 - I/O 9	FITA1, FIT2, 6-7	
#2 BIKE	3	IA1 - I/O 10	FITA1, FIT3, 1-2	
#2	4	IA1 - I/O 11	FITA1, FIT3, 6-7	
#3	15	IA1 - I/O 14	FITA1, FIT5, 1-2	
#4 RT	6	IA1 - I/O 16	FITA1, FIT6, 1-2	
#4 ADV	7	IA1 - I/O 17	FITA1, FIT6, 6-7	
#5	5	IA2 - I/O 6	FITA2, FIT1, 1-2	
#6 ADV	9	IA2 - I/O 8	FITA2, FIT2, 1-2	
#6 ADV	10	IA2 - I/O 9	FITA2, FIT2, 6-7	
#6 BIKE	11	IA2 - I/O 10	FITA2, FIT3, 1-2	
#6	12	IA2 - I/O 11	FITA2, FIT3, 6-7	
#7	8	IA2 - I/O 14	FITA2, FIT5, 1-2	
#8 ADV	14	IA2 - I/O 16	FITA2, FIT6, 1-2	
#2	PPB	IA1 - I/O 26	FITA1, FIT11, 1-2	
#4	PPB	IA1 - I/O 27	FITA1, FIT11, 6-7	
#6	PPB	IA1 - I/O 28	FITA1, FIT12, 1-2	
#8	PPB	IA1 - I/O 29	FITA1, FIT12, 6-7	
#2+#5	EVA	IA2 - I/O 24	FITA2, FIT10, 1-2-5	
#4	EVB	IA2 - I/O 25	FITA2, FIT10, 6-7-10	
#1+#6	EVC	IA2 - I/O 26	FITA2, FIT11, 1-2-5	
#8	EVD	IA2 - I/O 27	FITA2, FIT11, 6-7-10	

\* FIELD INPUT TERMINATION ASSEMBLY



LOMAS SANTA FE DR POSTED SPEED = 35 MPH  
 EL VIENTO ST/NARDO AVE POSTED SPEED = 25 MPH



SCALE: 1"=20'

PLAN CODE AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 TS-3 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

CONSTRUCTION NOTES

- [10] EXISTING 332L CONTROLLER CABINET AND EQUIPMENT COMPLETE. BREAK DOWN FOUNDATION 36" BELOW GRADE.
- [16] FURNISH AND INSTALL NEW MODEL 3521 ATC ANODIZED ALUMINUM CONTROLLER CABINET WITH TWO INPUT FILES AND FOUNDATION COMPLETE PER CALTRANS STANDARD PLAN ES-3C1. CABINET SHALL HAVE FRONT AND BACK INTERNAL LED LIGHT, FRONT AND REAR DOOR SWITCHES, RACK MOUNT POWER STRIP, AND PULL-OUT DOCUMENT DRAWER. CABINET SHALL BE EQUIPPED WITH THE FOLLOWING EQUIPMENT: NEW McCain FLEX CONTROLLER WITH OMNI SYSTEM, NEW DETECTOR CARDS, NEW DC ISOLATORS, NEW LOAD SWITCHES, NEW IP CAPABLE CONFLICT MONITOR UNIT WITH AUXILIARY DISPLAY, NEW POLARA NAVIGATOR 2-WIRE CONTROL UNIT WITH POWER SUPPLY, NEW GTT 764 PHASE SELECTORS WITH ETHERNET CAPABILITY, NEW ETHERNET CAPABLE RACK MOUNT POWER STRIP.
- [2] EXISTING SERVICE PEDESTAL TO REMAIN.
- [3] EXISTING ALPHA BBS CABINET AND SYSTEM COMPLETE TO NEW LOCATION PER PLAN.
- [4] FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [5] EXISTING PEDESTRIAN HEAD MODULE. FURNISH AND INSTALL NEW LED COUNTDOWN TYPE PEDESTRIAN HEAD MODULE IN EXISTING HOUSING.
- [8] FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- [9] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- [10] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [11] FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- [13] FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- [14] FURNISH AND INSTALL NEW 6" DIAMETER INDUCTANCE DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- [15] FURNISH AND INSTALL MODIFIED 4X6 TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- [16] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- [17] EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- [18] EXISTING VEHICLE HEAD. FURNISH AND INSTALL NEW 5-SECTION VEHICLE HEAD PER DETAIL "B" WITH MOUNTING.
- [21] DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- [24] FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

5865 AVENIDA ENCINAS, #142B  
 CARLSBAD, CA 92008  
 PH: 760-602-4290  
 WWW.STCTRAFFIC.COM

ENGINEER OF WORK  
 CHRISTIAN J. LAMBARTE RCE 86675 DATE

CITY APPROVED CHANGES  
 APP'D DATE

RECOMMENDED FOR APPROVAL  
 By: \_\_\_\_\_ Date: \_\_\_\_\_

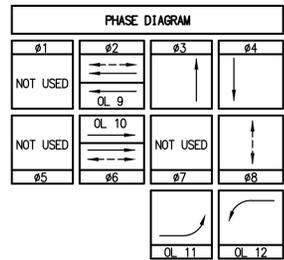
APPROVED FOR CONSTRUCTION  
 Mohammad Sammak, City Engineer  
 R.C.E.: 37146 Exp: 6/30/22

BENCH MARK  
 DESCRIPTION: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 ELEV: \_\_\_\_\_ DATUM: M.S.L.

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

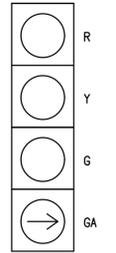
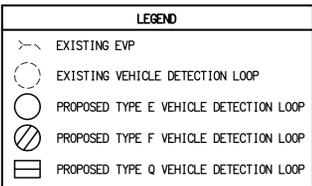
ENGINEERING DEPARTMENT  
 DRAWING NO. CG-3185  
 Sheet 53 of 73

* CONDUIT SCHEDULE		CONDUIT RUNS											
ANG OR CABLE SIZE	POLE OR CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12
12 CSC	POLE A' OL 9, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE B' OL 11, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE C' OL 11, OL 12, #2 #8P, #8PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE D' #3	1	1	1	1	1	1	1	1	1	1	1	1
	POLE E OL 10, #6P, #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE F OL 9, #2P, #2PPB	1	1	1	1	1	1	1	1	1	1	1	1
3 CSC	POLE G #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE H OL 12, #6P, #6PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE I #3, #8PPB	1	1	1	1	1	1	1	1	1	1	1	1
	POLE J #4, #6	1	1	1	1	1	1	1	1	1	1	1	1
	POLE K #4	1	1	1	1	1	1	1	1	1	1	1	1
	TOTAL		1	2	2	3	4	3	1	2	2	2	2
#10 SAFETY LIGHTING (LTG)		2	2	2	2	2	2	2	2	2	2	2	2
#8 GROUND (GND)		1	1	1	1	1	1	1	1	1	1	1	1
#6 SERVICE (SVC)													
TYPE B DLC	#2			4	4								
	#3					3	3	3					
	#4	1	1	1									
	#6												
OL 11													
OL 12													
TOTAL DLCs		1	1	6	7	3	4	10	5	5	10	15	
EVP CABLE (3M MODEL 138 CABLE)		1	1	3									
SIGNAL INTERCONNECT (6PR#20)													
CONDUIT SIZE (INCHES)		3"	3"	3"	3"	2" RMC	2" RMC	3"	2-3"	1.5" RMC	3"	2-3"	3-3"
CONDUIT FILL (%)		12	19	31	43	18	35	39	42	42	19	42	35



AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.

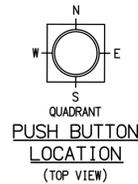
LOMAS SANTA FE DR POSTED SPEED = 35 MPH  
 GLENCREST DR POSTED SPEED = 25 MPH  
 STEVENS AVE POSTED SPEED = 30 MPH



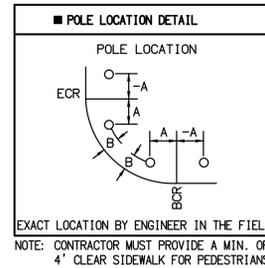
* POLE AND EQUIPMENT SCHEDULE												
No.	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED LUMINAIRE	SIGNAL MOUNTING		PHASE	QUAD	POLE LOCATION		REMARKS
						VEHICLE	PED			A	B	
(A)	17-3-100	30'	25'	15'	101 W	1-MAS	SV-1-T017	SP-1-T	#2	N	9' 8'	POLE MOUNTED R2-1(35), R49R(CA)
(B)	1-A	10'					TV-1-T	SP-1-T	#2	N	7' 6'	
(C)	29-5-100	30'	40'	15'	101 W	3-MAS	SV-1-T	SP-1-T	#8	E	SEE PLAN	Stevens
(D)	18-4-100	17'	25'			1-MAS	SV-1-T				SEE PLAN	POLE MOUNTED R26(CA)(MOD)
(E)	17-2-70	30'	20'	15'	101 W	1-MAS	SV-1-T				EXISTING	Stevens
(F)	1-A	10'					TP-1-T	#6	S		EXISTING	
(G)	PPB POST	5' 7"						#6	S	5'	24'	
(H)	1-A	10'					TV-1-T	SP-2-T	#8	W	5'	18'
(I)	1-A	10'					TV-1-T				EXISTING	
(J)	17-2-70	30'	25'	15'	101 W	1-MAS	SV-2-T				EXISTING	Glencrest
(K)	1-A	10'					TV-1-T				EXISTING	

ALL EQUIPMENT IS EXISTING UNLESS NOTED:  
 (●) = NEW  
 (★) = EXISTING PEDESTRIAN INDICATIONS ARE LED COUNTDOWN TYPE.  
 (▲) = EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY IS APS AND ADA COMPLIANT.  
 (+) = RELOCATED

NOTE: CONSTRUCT POLE STANDARDS TO CALTRANS 2018 STANDARDS. CONTRACTOR SHALL POTHOLE POLE FOUNDATIONS AND SUBMIT MATERIALS CUT SHEETS PRIOR TO ORDERING OF MATERIALS.



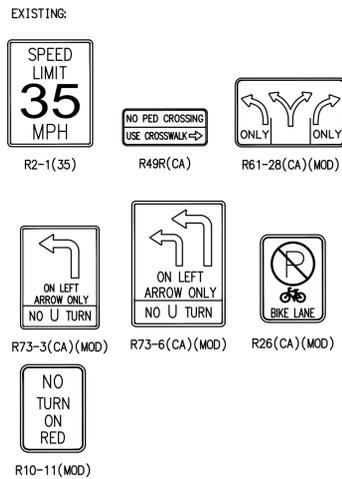
POLES TO BE			
No.	TYPE	HEIGHT	SIG. M.A.
(A)	17-3-70	30'	20'
(B)	1-A	10'	
(C)	29-5-70	30'	50'
(D)	18-4-70	30'	30'
(H)	1-A	10'	



DETECTOR ASSIGNMENT			
PHASE	DETECTOR	INPUT ASSEMBLY	FITA*
#2 ADV	7	IA1 - I/O 8	FITA1, FIT2, 1-2
#2 ADV	8	IA1 - I/O 9	FITA1, FIT2, 6-7
#2 BIKE	9	IA1 - I/O 10	FITA1, FIT3, 1-2
#2	10	IA1 - I/O 11	FITA1, FIT3, 6-7
#3	13	IA1 - I/O 14	FITA1, FIT5, 1-2
#3	14	IA1 - I/O 15	FITA1, FIT5, 6-7
#3	15	IA1 - I/O 16	FITA1, FIT6, 1-2
#4	6	IA1 - I/O 18	FITA1, FIT7, 1-2
#6 ADV	1	IA2 - I/O 8	FITA2, FIT2, 1-2
#6 ADV	2	IA2 - I/O 9	FITA2, FIT2, 6-7
#6 BIKE	3	IA2 - I/O 10	FITA2, FIT3, 1-2
#6	4	IA2 - I/O 11	FITA2, FIT3, 6-7
OL 11	5	IA1 - I/O 6	FITA1, FIT1, 1-2
OL 12	11	IA2 - I/O 6	FITA2, FIT1, 1-2
OL 12	12	IA2 - I/O 7	FITA2, FIT1, 6-7
#2	PPB	IA1 - I/O 26	FITA1, FIT12, 1-2
#6	PPB	IA1 - I/O 28	FITA1, FIT12, 1-2
#8	PPB	IA1 - I/O 29	FITA1, FIT12, 6-7
#2+#5	EVA	IA2 - I/O 24	FITA2, FIT10, 1-2-5
#1+#6	EVC	IA2 - I/O 26	FITA2, FIT11, 1-2-5
#8	EVD	IA2 - I/O 27	FITA2, FIT11, 6-7-10

\* FIELD INPUT TERMINATION ASSEMBLY

SIGN LEGEND

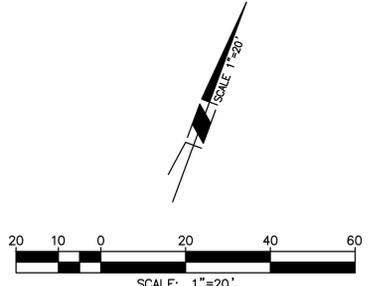
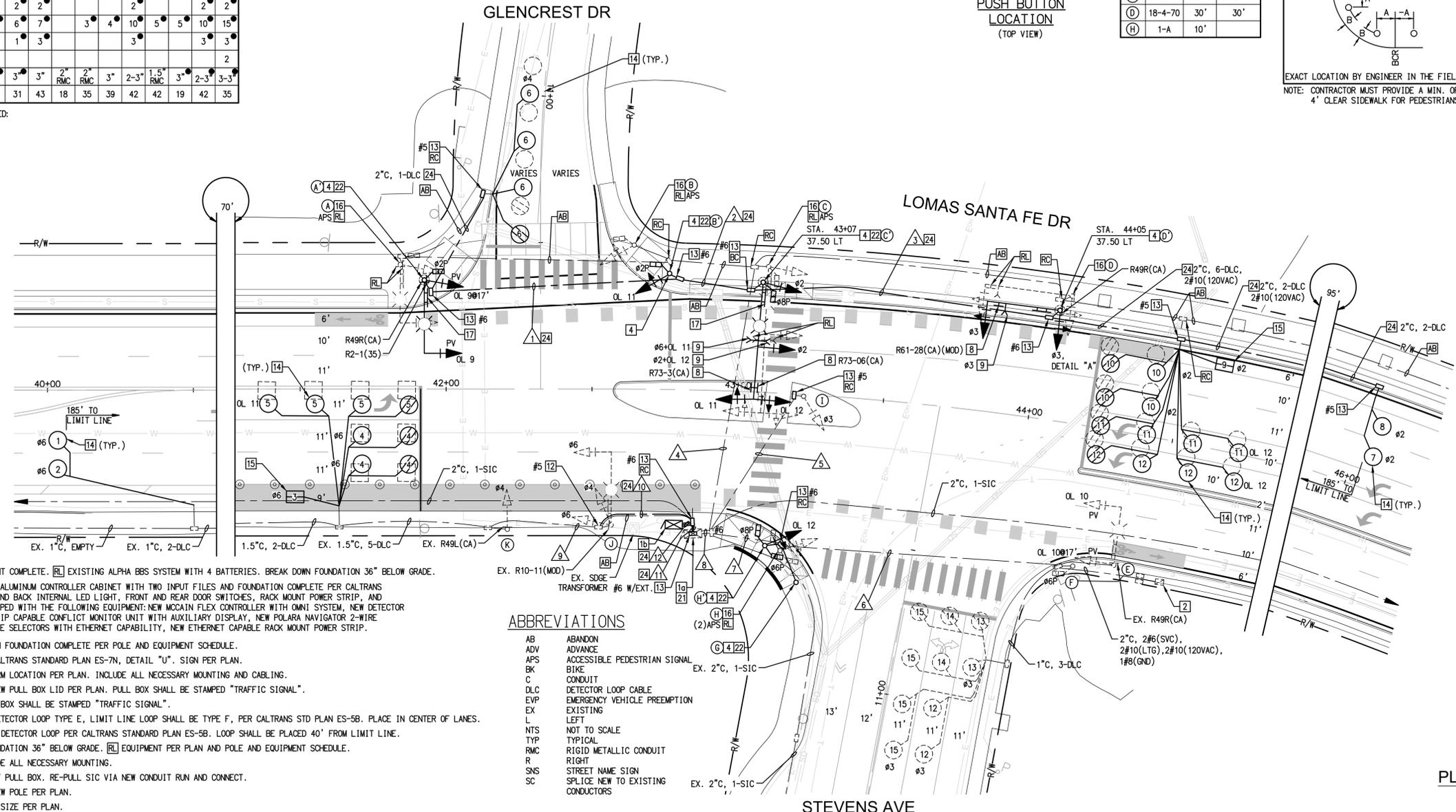


CONSTRUCTION NOTES

- 10) [RS] EXISTING 352L CONTROLLER CABINET AND EQUIPMENT COMPLETE. [RL] EXISTING ALPHA BBS SYSTEM WITH 4 BATTERIES. BREAK DOWN FOUNDATION 36" BELOW GRADE.
- 16) FURNISH AND INSTALL NEW MODEL 3521 ATC ANODIZED ALUMINUM CONTROLLER CABINET WITH TWO INPUT FILES AND FOUNDATION COMPLETE PER CALTRANS STANDARD PLAN ES-3C1. CABINET SHALL HAVE FRONT AND BACK INTERNAL LED LIGHT, FRONT AND REAR DOOR SWITCHES, RACK MOUNT POWER STRIP, AND PULL-OUT DOCUMENT DRAWER. CABINET SHALL BE EQUIPPED WITH THE FOLLOWING EQUIPMENT: NEW MOCAIN FLEX CONTROLLER WITH OMNI SYSTEM, NEW DETECTOR CARDS, NEW DC ISOLATORS, NEW LOAD SWITCHES, NEW IP CAPABLE CONFLICT MONITOR UNIT WITH AUXILIARY DISPLAY, NEW POLARA NAVIGATOR 2-WIRE CONTROL UNIT WITH POWER SUPPLY, NEW GIT 764 PHASE SELECTORS WITH ETHERNET CAPABILITY, NEW ETHERNET CAPABLE RACK MOUNT POWER STRIP.
- 4) FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- 8) FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- 9) [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- 12) [RC] EXISTING PULL BOX LID. FURNISH AND INSTALL NEW PULL BOX LID PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- 13) FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- 14) FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- 15) FURNISH AND INSTALL MODIFIED 4X6" TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- 16) [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. [RL] EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- 17) [RL] EXISTING SNS TO NEW LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING.
- 21) DISCONNECT EXISTING SIC AND PULL BACK TO NEAREST PULL BOX. RE-PULL SIC VIA NEW CONDUIT RUN AND CONNECT.
- 22) [RL] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY TO NEW POLE PER PLAN.
- 24) FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

ABBREVIATIONS

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- SNS STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS



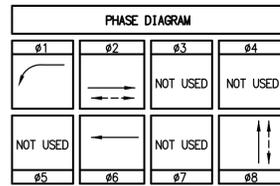
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 TS-4  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & STEVENS AVE/GLENCREST AVE	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			

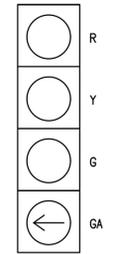
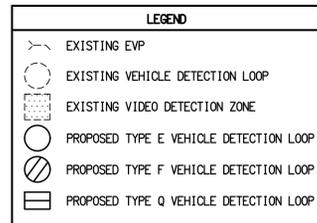
100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

Dec 09, 2021 6:35pm R:\Shared With Me\STC Data\Projects\Michael Baker\20.0853\_Lomas Santa Fe TS Mods\07\_Engineering\CADD\DW\20.0583\_DLV\_04\_TS.dwg

* CONDUCTOR SCHEDULE		CONDUIT RUNS						
ANG OR CABLE SIZE	POLE OR CIRCUIT	1	2	3	4	5	6	7
12 CSC	POLE A' #1, #6, #8	1	1	1	1	1	1	1
	POLE B' #8	1	1	1	1	1	1	1
	POLE C #8P, #8PPB	1	1	1	1	1	1	1
	POLE D #2, #2P, #8P, #2PPB, #8PPB	1	1	1	1	1	1	1
3 CSC	POLE E #1, #2, #2PPB	1	1	1	1	1	1	1
	TOTAL	1	2	3	4	5	6	7
#10	SAFETY LIGHTING (LTG)	2	2	2	2	2	2	2
#8	GROUND (GND)	1	1	1	1	1	1	1
#6	SERVICE (SVC)						2	2
TYPE B DLC	#1			1			1	1
	#2				6		6	6
	#6				5		5	5
	TOTAL DLCs			6	6	12	12	12
	EVP CABLE (3M MODEL 138 CABLE)	1	2	2		3	3	
	VIDEO DETECTION COAX CABLE	1	1			1	1	
	VIDEO DETECTION 3C/#16 POWER CABLE	1	1			1	1	
	SIGNAL INTERCONNECT (6PR#20)				1	2	2	
	CONDUIT SIZE (INCHES)	3"	3"	3"	3"	3"	2-2" 2-3"	2-2" 2-3"
	CONDUIT FILL (%)	9	22	35	10	16	20	20



LOMAS SANTA FE DR POSTED SPEED = 40 MPH  
PLAZA ENTRANCE POSTED SPEED = NOT POSTED



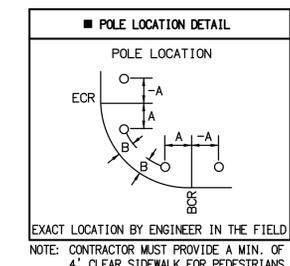
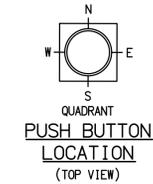
DETAIL "A"  
4-SECTION VEHICLE HEAD

* POLE AND EQUIPMENT SCHEDULE												
No.	TYPE	STANDARD			LED LUMINAIRE	SIGNAL MOUNTING			POLE LOCATION		REMARKS	
		HEIGHT	SIG. M.A.	LUM. M.A.		VEHICLE	PED	PHASE	QUAD	A		B
(A)	26-4-100	30'	40'	15'	101 W +	2-MAS	SV-2-T		SEE PLAN	3.5'	Plaza Entrance	POLE MOUNTED R9-3
(B)	17-3-100	30'	20'	15'	101 W +	1-MAS	SV-1-T		SEE PLAN	3.5'	Lomas Santa Fe Dr	ROTATE LUMINAIRE 90° AS SHOWN
(C)	1-A	7'					TP-1-T	#8P	SEE PLAN	6.5'		
(D)	24-3-129	30'	35'	15'	101 W	1-MAS	SV-1-T	SP-1-T	#8P	W	EXISTING	Plaza Entrance
(E)	15TS	30'		15'	101 W		SV-1-T	SP-1-T	#2P	N	EXISTING	

\*ALL EQUIPMENT IS EXISTING UNLESS NOTED:  
 (●) = NEW  
 (◆) = EXISTING PEDESTRIAN INDICATIONS ARE LED COUNTDOWN TYPE.  
 (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.  
 (+) = RELOCATED

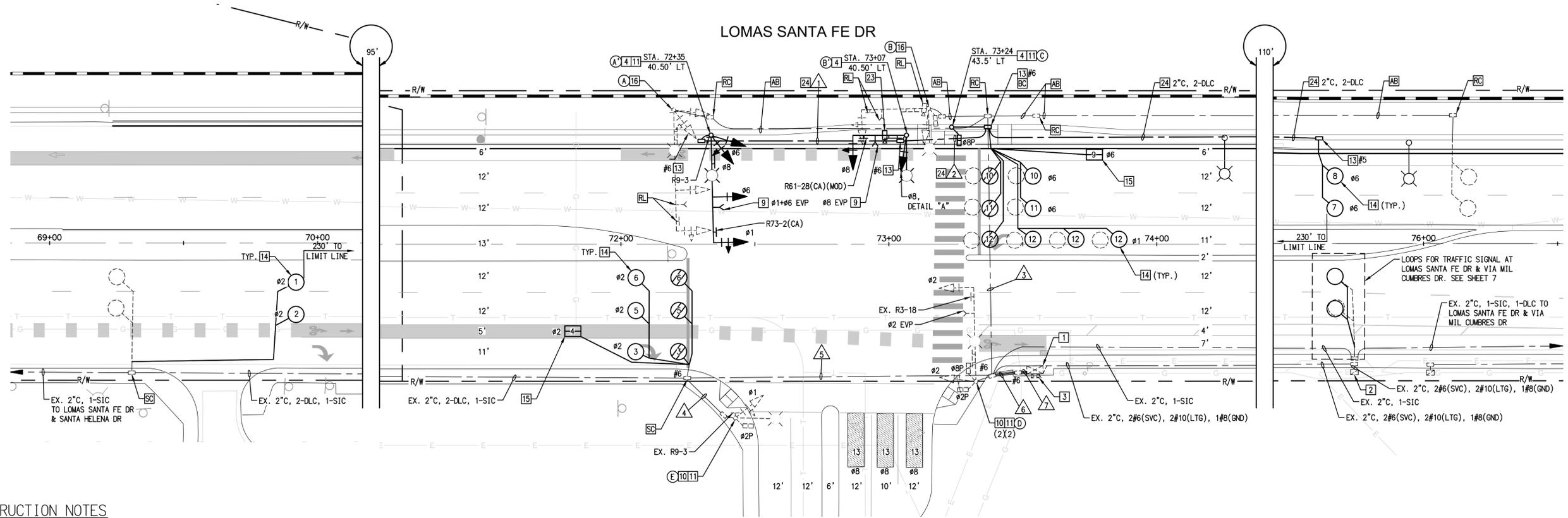
POLES TO BE [RS]			
No.	TYPE	HEIGHT	SIG. M.A.
(A)	26-4-129	30'	45'
(B)	19-3-129	30'	25'

AS FIRST ORDER OF WORK, THE CONTRACTOR SHALL POTHOLE POLE LOCATIONS PRIOR TO ORDERING POLES. IF CONFLICTS ARE FOUND DURING POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. FAILURE TO COMPLY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR ANY LOSS OF TIME, ADDITIONAL COST, AND DAMAGE.



DETECTOR ASSIGNMENT			
DETECTOR	PHASE	SLOT	FIELD TERMINAL
1	2 ADV	I2L	T2-7 & 8
2	2 ADV	I2U	T2-5 & 6
3	2 RT	I3U	T2-9 & 10
4	2 BK	I3L	T2-11 & 12
5	2	I4U	T4-1 & 2
6	2	I4L	T4-3 & 4
7	6 ADV	J2U	T3-5 & 6
8	6 ADV	J2L	T3-7 & 8
9	6 BK	J3U	T3-9 & 10
10	6	J3L	T3-11 & 12
11	6	J3U	T5-1 & 2
12	1	I1U	T2-1 & 2
13	8	J6U/J6L J7U/J7L	VIDEO

\*ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:  
 (●) = NEW



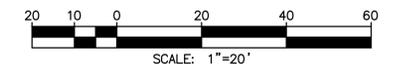
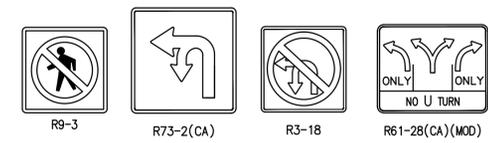
CONSTRUCTION NOTES

- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 DETECTOR CARDS, ITERIS ADVANTAGE EDGE 2 CARD AND MONITOR, 3M EVP CARDS (2), PDA#2, EDI 210E CONFLICT MONITOR UNIT. [RS] EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OMNI PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- EXISTING BBS TO REMAIN. BBS SYSTEM IS ALPHA WITH 4 BATTERIES.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- [RS] EXISTING PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-58. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4X6" TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-58. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. [RL] EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- [RL] EXISTING VIDEO DETECTION CAMERA TO NEW POLE. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

ABBREVIATIONS

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- SNS STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS

SIGN LEGEND



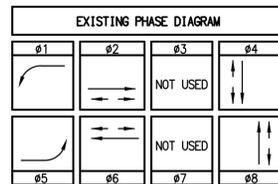
AS-BUILT  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

 5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & PLAZA ENTRANCE	ENGINEERING DEPARTMENT	DRAWING NO.
	CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		ELEV.: _____ DATUM: M.S.L.	CG-3185

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

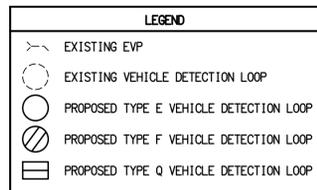
* CONDUCTOR SCHEDULE															
AWG OR CABLE SIZE	POLE OR CIRCUIT	CONDUIT RUNS													
		1	2	3	4	5	6	7	8						
12 CSC	POLE A	Ø4, Ø4P, Ø8, Ø2PPB													
	POLE B	Ø1, Ø2P, Ø4PPB													
	POLE C	Ø1, Ø6, Ø6P, Ø4PPB	1	1	1	1	1	1	1	1					
	POLE D	Ø8, Ø4P, Ø6PPB	1	1	1	1	1	1	1	1					
	POLE E	Ø8, Ø8P, Ø6PPB	1	1	1	1	1	1	1	1					
	POLE F	Ø5, Ø6P, Ø8PPB	1	1	1	1	1	1	1	1					
	POLE G	Ø2, Ø5, 2P, Ø8PPB			2	1	2	1	2	1					
3 CSC	POLE H	Ø4, Ø8P, Ø2PPB													
	TOTAL		2	2	2	2	3	4	6	5	7	6	7	8	9
#12	IISNS		2	2	2	2	2	2	2	2	2	2	2	2	2
#10	SAFETY LIGHTING (LTG)		2	2	2	2	2	2	2	2	2	2	2	2	2
#8	GROUND (GND)		1												
#6	SERVICE (SVC)														2
TYPE B DLC	Ø1									1	1	1	1	1	1
	Ø2														4
	Ø4				2	2	2	2	2	2	2	2	2	2	2
	Ø5														1
	Ø6									4	4	4	4	4	4
	Ø8														2
	TOTAL DLCs				2	2	2	2	7	7	9	9	9	9	13
	EVP CABLE (3M MODEL 138 CABLE)		1	1	1	1	2	2	3	3	4	4	4	4	4
SIGNAL INTERCONNECT (6PR#20)															1
CONDUIT SIZE (INCHES)			3"	3"	3"	3"	3"	3"	2"	2"	2"	2"	2"	2"	2"
CONDUIT FILL (%)			20	31	21	29	43	42	35	39	47				

\* ALL CONDUIT AND CONDUCTORS ARE EXISTING UNLESS NOTED:  
 (●) = NEW  
 (RMC) = RIGID METALLIC CONDUIT



LOMAS SANTA FE DR POSTED SPEED = 40 MPH  
 VIA MIL CUMBRES DR/LAS BANDERAS DR POSTED SPEED = 25 MPH

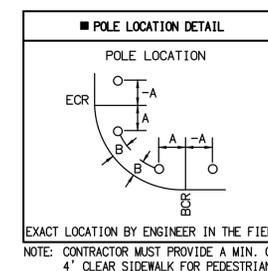
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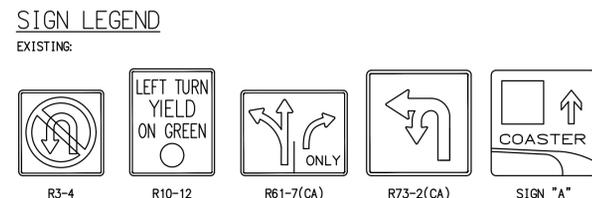
* POLE AND EQUIPMENT SCHEDULE														
No.	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LED LUMINAIRE	SIGNAL MOUNTING		POLE LOCATION		IISNS	REMARKS			
						VEHICLE	VEHICLE	PHASE	QUAD					
(A)	17-3-70	30'	20'	15'	101 W	1-MAS	SV-2-T	SP-1-T (EX. CD)	Ø2P	N	EXISTING	Lomas Santa Fe Dr		
(B)	1-A	10'					SV-1-T	SP-1-T (EX. CD)	Ø4P	E	EXISTING			
(C)	26-4-100	30'	40'	15'	101 W	2-MAS	SV-1-T	SP-1-T	Ø4P	E	10'	5'	Via Mil Cumbre Dr	POLE MOUNTED SIGN "A"
(D)	1-A	10'					TV-1-T	SP-1-T	Ø6P	S	8'	5'		
(E)	19-4-100	30'	20'	15'	101 W	1-MAS	SV-1-T	SP-1-T	Ø6P	S	9'	5'	Lomas Santa Fe Dr	
(F)	1-A	10'					TV-1-T	SP-1-T	Ø8P	W	8'	8'		
(G)	29-5-70	30'	50'	15'	101 W	2-MAS	SV-1-T	SP-1-T	Ø8P	W	EXISTING		Las Banderas Dr	
(H)	1-A	10'					TV-1-T	SP-1-T	Ø2P	N	EXISTING			

\* ALL EQUIPMENT IS EXISTING UNLESS NOTED:  
 (●) = NEW  
 (♦) = PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN (CD) TYPE.  
 (▲) = PEDESTRIAN PUSHBUTTON ASSEMBLY SHALL BE APS AND ADA COMPLIANT.  
 (+) = RELOCATED

POLES TO BE [RS]			
No.	TYPE	HEIGHT	SIG. M.A.
(C)	26-4-70	30'	45'
(D)	1-A	10'	
(E)	19-4-70	30'	25'
(F)	1-A	10'	



DETECTOR ASSIGNMENT			
DETECTOR	PHASE	SLOT	FIELD TERMINAL
1	2 ADV	I2L	T2-7 & 8
2	2 ADV	I2U	T2-5 & 6
3	2 BK	I3U	T2-9 & 10
4	2	I3L	T2-11 & 12
5	5	J1U	T3-1 & 2
6	4	I6U	T4-9 & 10
7	4	I6L	T4-11 & 12
8	6 ADV	J2U	T3-5 & 6
9	6 ADV	J2L	T3-7 & 8
10	6 BK	J3U	T3-9 & 10
11	6	J3L	T3-11 & 12
12	1	I1U	T2-1 & 2
13	8	J6U	T5-9 & 10

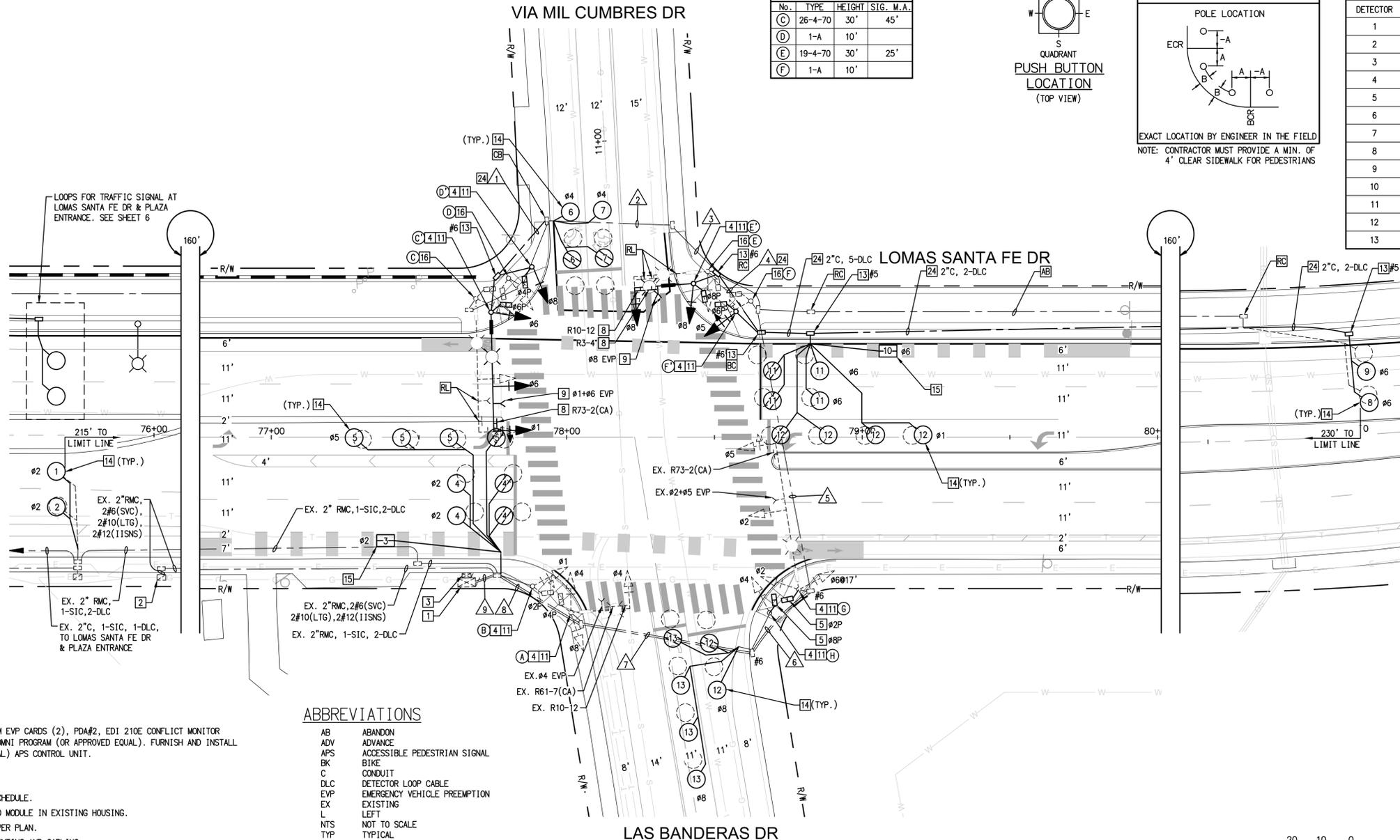


CONSTRUCTION NOTES

- EXISTING 332L CONTROLLER CABINET WITH THE FOLLOWING EXISTING EQUIPMENT: 222 DETECTOR CARDS, 3M EVP CARDS (2), POA#2, EDI 210E CONFLICT MONITOR UNIT. [RS] EXISTING MCCAIN 170E CONTROLLER. FURNISH AND INSTALL NEW MCCAIN FLEX CONTROLLER AND OMNI PROGRAM (OR APPROVED EQUAL). FURNISH AND INSTALL NEW DETECTOR CARDS AS NECESSARY. FURNISH AND INSTALL POLARA NAVIGATOR 2-WIRE (OR APPROVED EQUAL) APS CONTROL UNIT.
- EXISTING SERVICE PEDESTAL TO REMAIN.
- EXISTING BBS TO REMAIN. BBS SYSTEM IS ALPHA WITH 4 BATTERIES.
- FURNISH AND INSTALL NEW TRAFFIC SIGNAL POLE WITH FOUNDATION COMPLETE PER POLE AND EQUIPMENT SCHEDULE.
- [RS] EXISTING PEDESTRIAN HEAD MODULE. FURNISH AND INSTALL NEW LED COUNTDOWN TYPE PEDESTRIAN HEAD MODULE IN EXISTING HOUSING.
- FURNISH AND INSTALL MAST ARM MOUNTED SIGN PER CALTRANS STANDARD PLAN ES-7N, DETAIL "U". SIGN PER PLAN.
- [RL] EXISTING EVP DETECTOR ASSEMBLY TO NEW MAST ARM LOCATION PER PLAN. INCLUDE ALL NECESSARY MOUNTING AND CABLING.
- FURNISH AND INSTALL NEW APS PEDESTRIAN PUSHBUTTON ASSEMBLY.
- FURNISH AND INSTALL NEW PULL BOX PER PLAN. PULL BOX SHALL BE STAMPED "TRAFFIC SIGNAL".
- FURNISH AND INSTALL NEW 6" DIAMETER INDUCTION DETECTOR LOOP TYPE E, LIMIT LINE LOOP SHALL BE TYPE F, PER CALTRANS STD PLAN ES-5B. PLACE IN CENTER OF LANES.
- FURNISH AND INSTALL MODIFIED 4X6" TYPE Q BICYCLE DETECTOR LOOP PER CALTRANS STANDARD PLAN ES-5B. LOOP SHALL BE PLACED 40' FROM LIMIT LINE.
- [RS] EXISTING TRAFFIC SIGNAL POLE. BREAK DOWN FOUNDATION 36" BELOW GRADE. [RL] EQUIPMENT PER PLAN AND POLE AND EQUIPMENT SCHEDULE.
- FURNISH AND INSTALL PVC CONDUIT WITH MULE TAPE, SIZE PER PLAN.

ABBREVIATIONS

- AB ABANDON
- ADV ADVANCE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BK BIKE
- C CONDUIT
- DLC DETECTOR LOOP CABLE
- EVP EMERGENCY VEHICLE PREEMPTION
- EX EXISTING
- L LEFT
- NTS NOT TO SCALE
- TYP TYPICAL
- RMC RIGID METALLIC CONDUIT
- R RIGHT
- SNS STREET NAME SIGN
- SC SPLICE NEW TO EXISTING CONDUCTORS



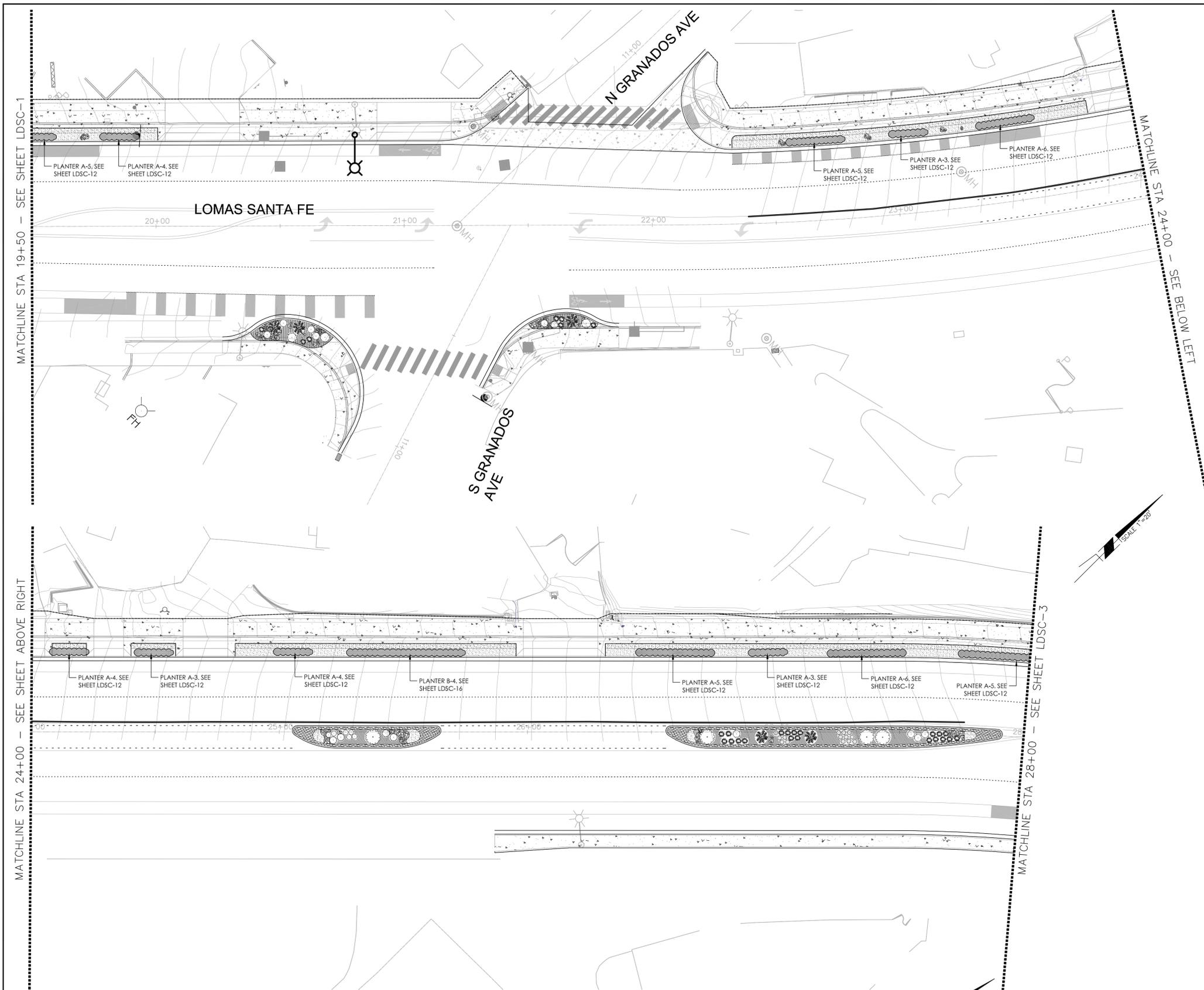
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 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	5865 AVENIDA ENCINAS, #142B CARLSBAD, CA 92008 PH: 760-602-4290 WWW.STCTRFFIC.COM	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR: LOMAS SANTA FE & LAS BANDERAS	ENGINEERING DEPARTMENT	DRAWING NO.
		CHRISTIAN J. LAMBARTH RCE 86675				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22			

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

Dec 09, 2021 6:35pm RA:Shared With Me\STC Data\Projects\Michael Baker\20.0853\_Lomas Santa Fe TS Mods\07\_Engineering\CADD\DWG\20.0583\_DLV\_06\_TS.dwg





**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

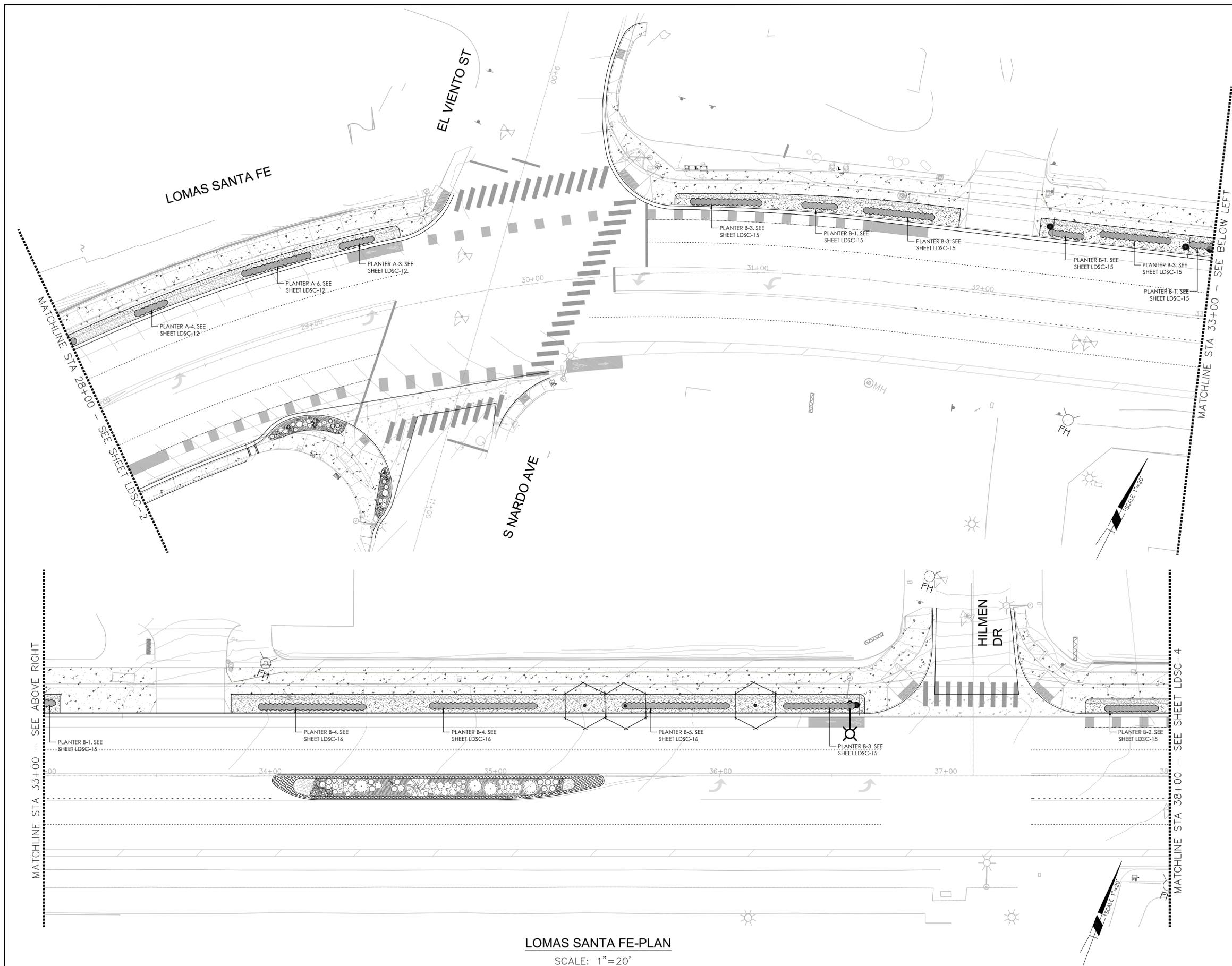
PLANT SCHEDULE				
TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNICUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RICENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A: 30" x 24" x 2.25" B: 24" x 18" x 1.5" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE -- SEE DETAIL F ON PAGE LDSC17
	B: 6" x 6" x 1.5" AMERICAN BEACH PEBBLE COBBLES FROM SOUTHWEST BOULDER & STONE -- SEE DETAIL E ON PAGE LDSC17
	C: PAVERS -- SEE DETAILS G/H ON PAGE LDSC17
	D: DG -- SEE DETAIL I ON PAGE LDSC17
	E: WOOD MULCH -- CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" AMERICAN BEACH PEBBLE PEBBLE FROM SOUTHWEST BOULDER & STONE -- SEE DETAIL E ON PAGE LDSC17
	G: PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

AS-BUILT  
PLAN CODE: LDSC-2  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

 3765 S. Highway 91, Ste. 102 • San Luis Obispo, CA 93401 (805) 545-1711 • (805) 545-4400 www.rrmdesign.com	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b>	ENGINEERING DEPARTMENT	DRAWING NO.
	DATE				By: _____ Date: _____	By: <b>Mohammad Sammak, City Engineer</b> R.C.E.: 37146 Exp: 6/30/22				LANDSCAPE & PLANTING PLAN
					By: _____ Date: _____					Sheet 58 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



### PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLIANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA REGENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SYRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

### SYMBOL LEGEND

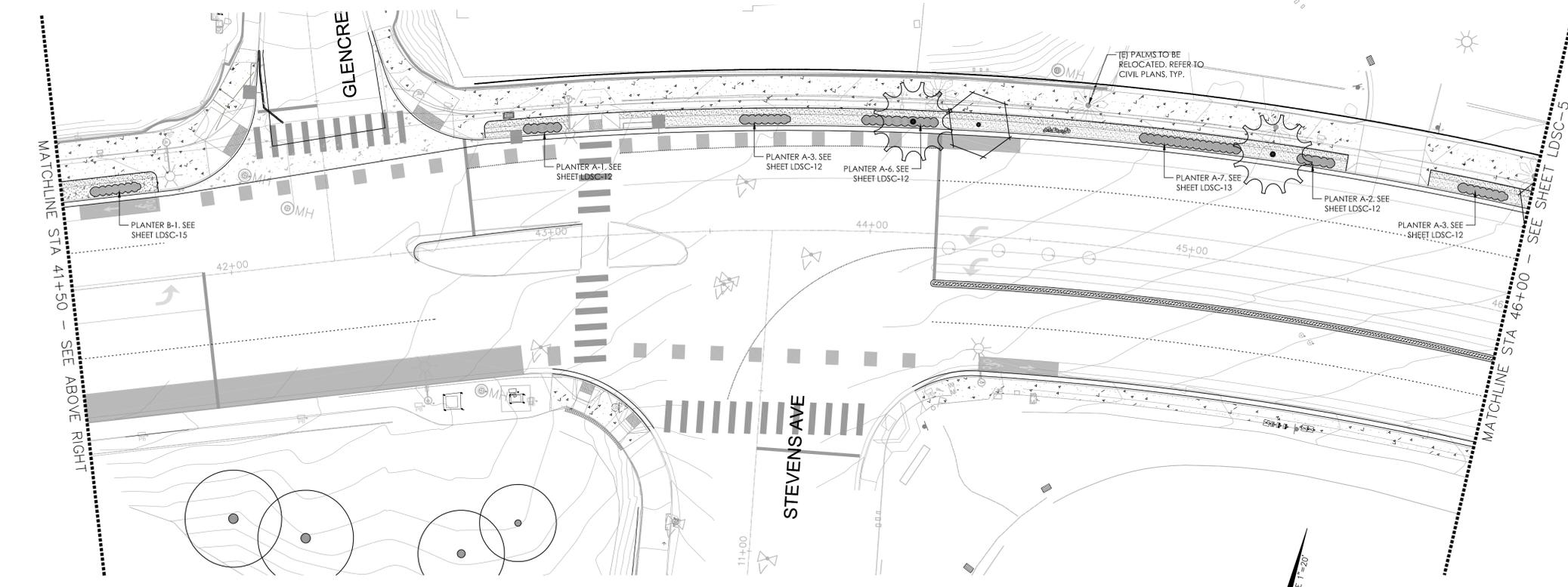
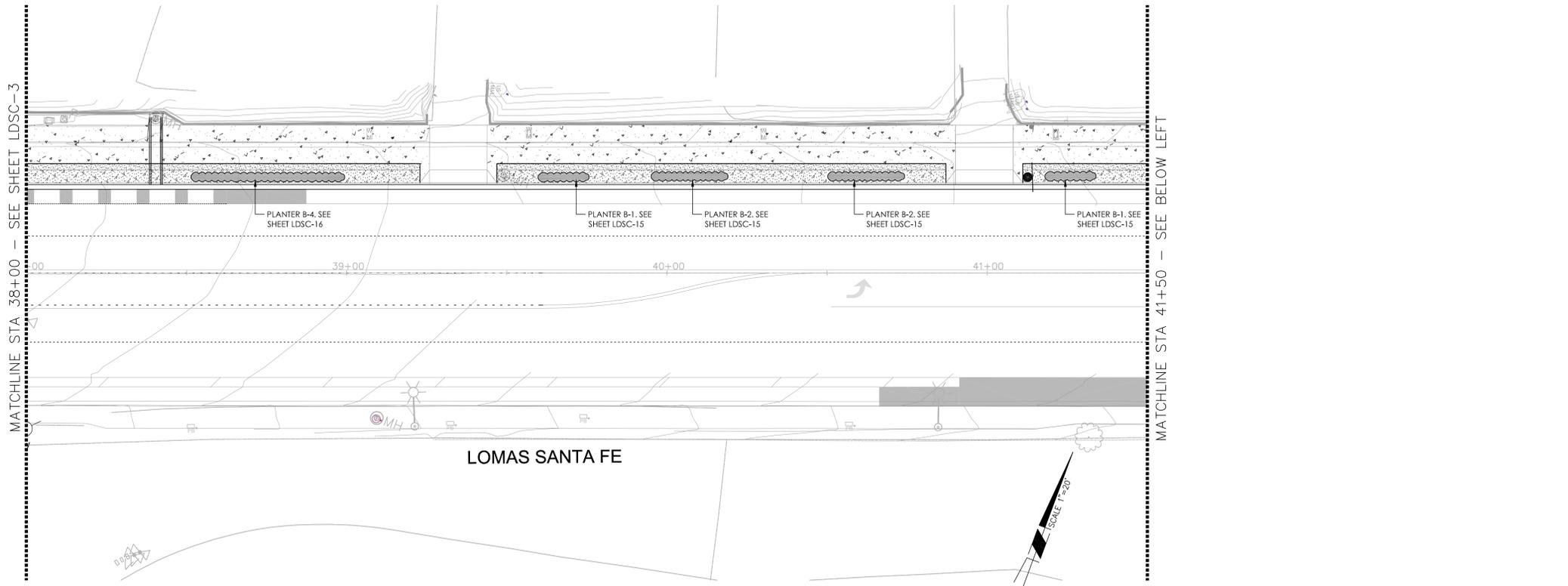
	A: 30" x 24" x 24" 18" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE	- SEE DETAIL F ON PAGE LDSC-17
	B: 6" x 6" x 6" 18" C: 18" x 12" AMERICAN BEACH PEBBLE COBBLE FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC-17
	PAVERS	- SEE DETAILS G/H ON PAGE LDSC-17
	DG	- SEE DETAIL I ON PAGE LDSC-17
	WOOD MULCH	- CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" AMERICAN BEACH PEBBLE COBBLE FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC-17
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS	

**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE LDSC-3  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> ENGINEERING DEPARTMENT IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b> LANDSCAPE & PLANTING PLAN	DRAWING NO.
	DATE			By: _____ Date: _____	By: <b>Mohammad Sammak, City Engineer</b> R.C.E.: 37146 Exp: 6/30/22	ELEV.: _____ DATUM: M.S.L.		<b>PL-3</b>

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

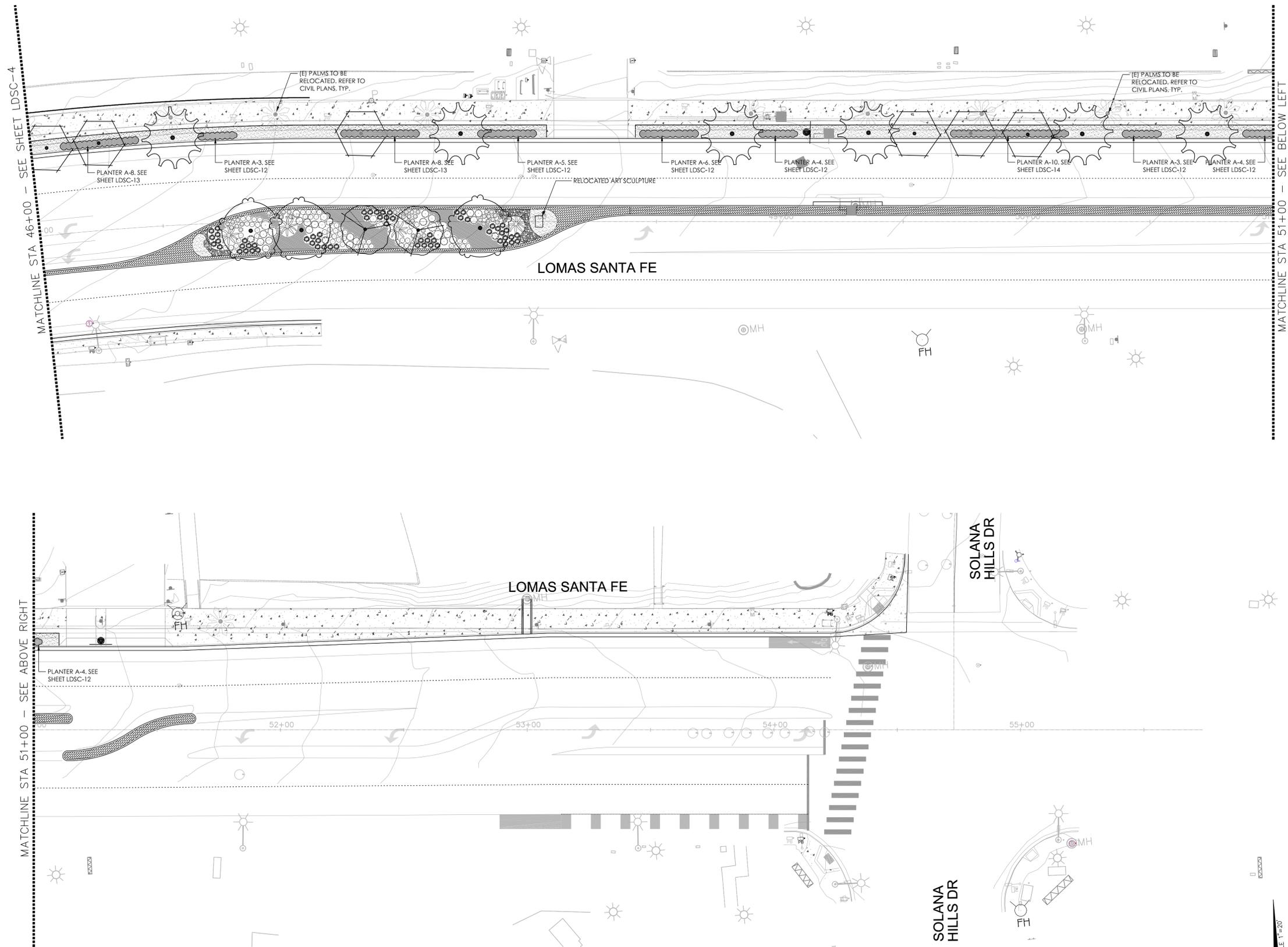
PLANT SCHEDULE				
TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RIENSIS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A1 30"24" 8.24"18" C 18"12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE - SEE DETAIL F ON PAGE LDSC17
	B 6"8" AMERICAN BEACH PEBBLE COBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PAVERS - SEE DETAILS G/H ON PAGE LDSC17
	DG - SEE DETAIL I ON PAGE LDSC17
	WOOD MULCH - CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	2.5" AMERICAN BEACH PEBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

AS-BUILT  
PLAN CODE: LDSC-4  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> ENGINEERING DEPARTMENT IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b> LANDSCAPE & PLANTING PLAN	<b>PL-4</b> Sheet 60 of 73
	DATE			By: _____ Date: _____	By: <b>Mohammad Sammak, City Engineer</b> R.C.E.: 37146 Exp: 6/30/22	ELEV.: _____ DATUM: M.S.L.		

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



PLANT SCHEDULE				
TREES				
	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIULANA TIJU	TIJU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS				
	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA REGENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

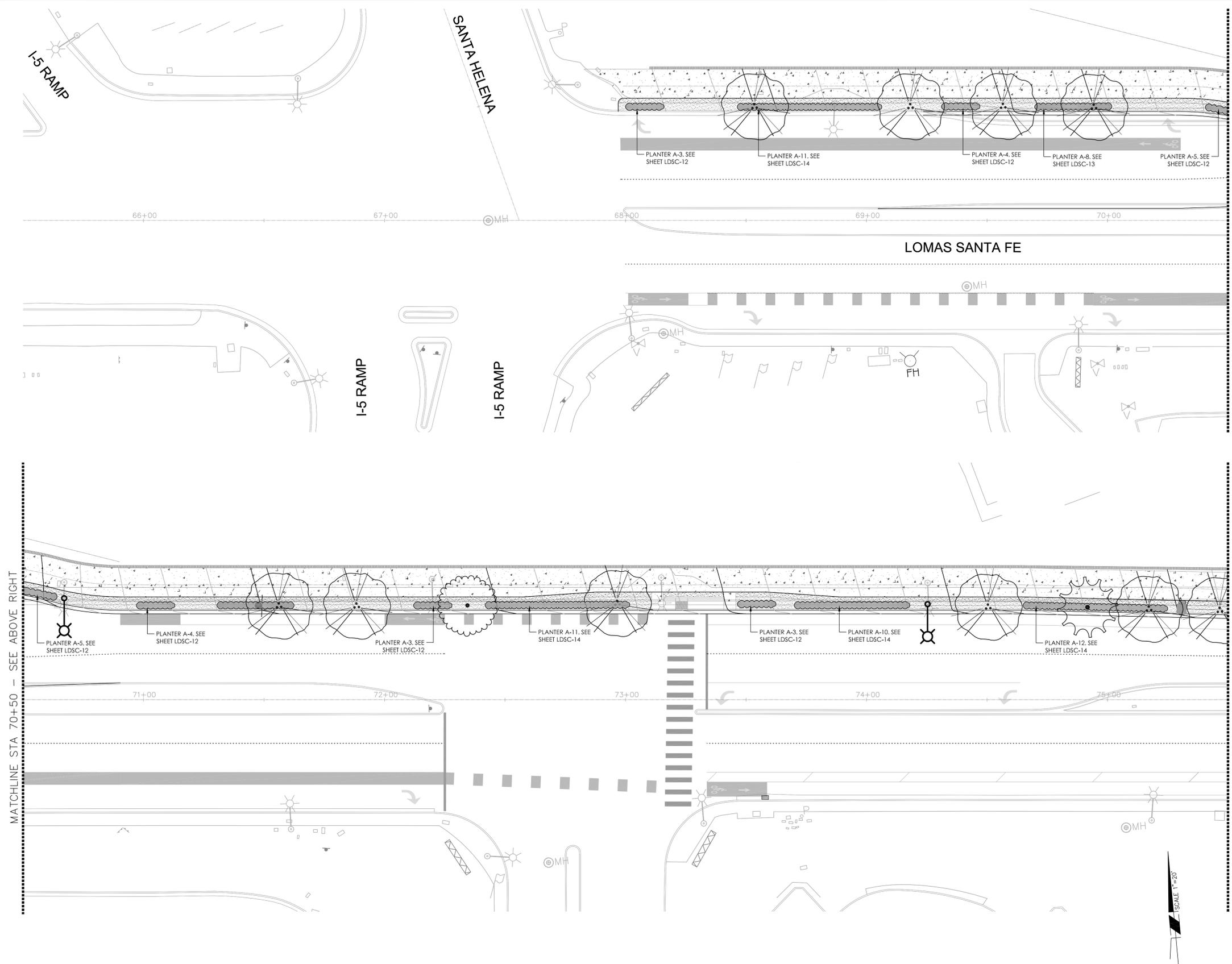
SYMBOL LEGEND	
	A: 30"24" 8.24"18" C: 18"12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE - SEE DETAIL F ON PAGE LDSC17
	B: 6"6" AMERICAN BEACH PEBBLE COBBLES FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	C: PAVERS - SEE DETAILS G/H ON PAGE LDSC17
	D: DG - SEE DETAIL I ON PAGE LDSC17
	E: WOOD MULCH - CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2"3" AMERICAN BEACH PEBBLE PEBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	G: PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE: LDSC-5  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> ENGINEERING DEPARTMENT IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b> LANDSCAPE & PLANTING PLAN	<b>PL-5</b> Sheet 61 of 73
	DATE			By: _____ Date: _____	By: <b>Mohammad Sammak, City Engineer</b> R.C.E.: 37146 Exp: 6/30/22	ELEV.: _____ DATUM: M.S.L.		

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



### PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLANA TIPI	TIPI TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANGOCANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	IMONILUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA REGENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETYRICHUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDIA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

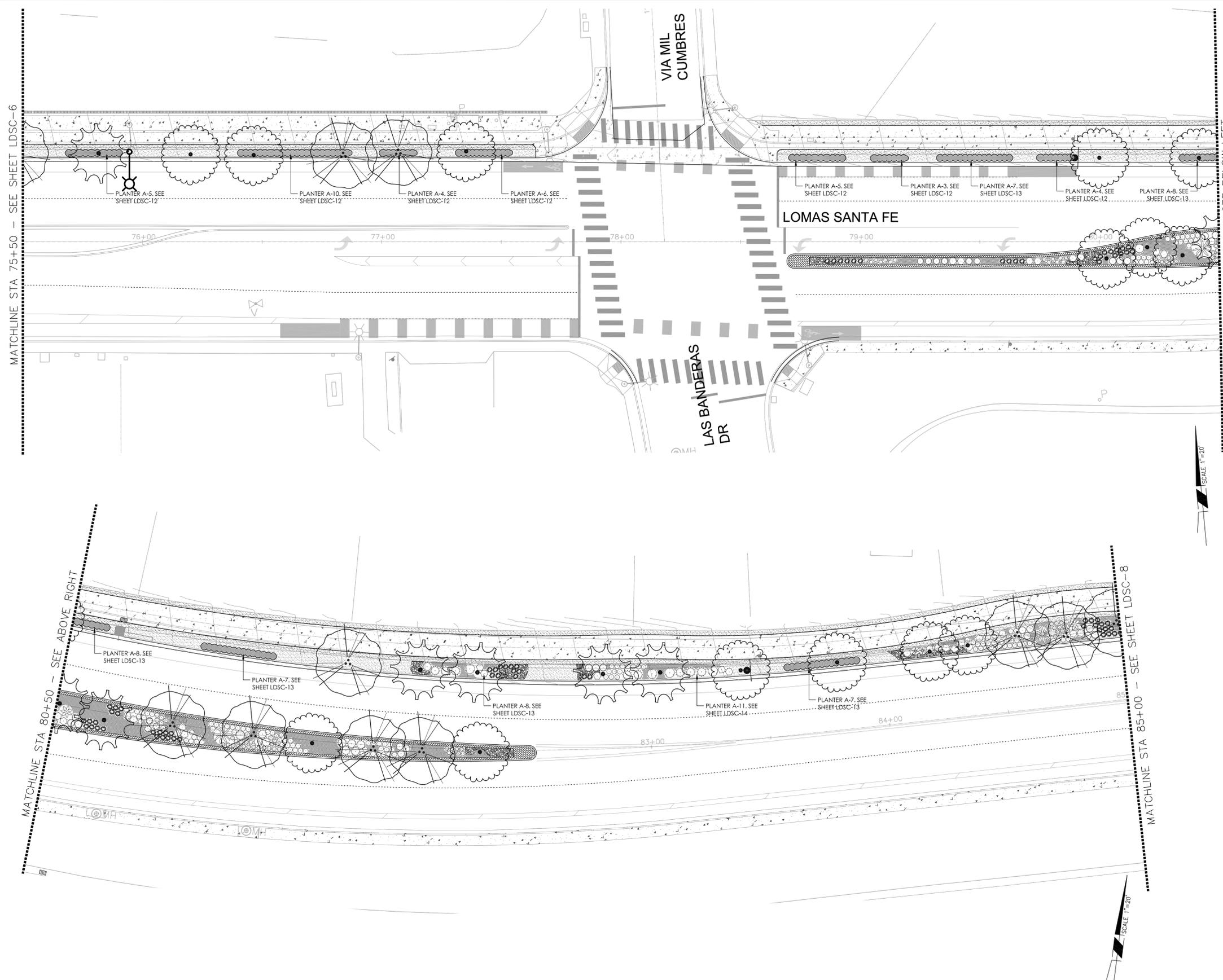
### SYMBOL LEGEND

	A: 30" x 24" x 2 1/2" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE	- SEE DETAIL F ON PAGE LDSC17
	B: 6" x 6" AMERICAN BEACH PEBBLE COBBLES FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC17
	PAVERS	- SEE DETAILS G/H ON PAGE LDSC17
	DG	- SEE DETAIL I ON PAGE LDSC17
	WOOD MULCH	- CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" AMERICAN BEACH PEBBLE PEBBLE FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC17
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS	

**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE: LDSC-6  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

<p>3765 S. Highway 91, Ste. 102 • San Luis Obispo, CA 93401 P: (805) 545-1714 • F: (805) 545-4309 www.rrmdesign.com</p>	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	<b>CITY OF SOLANA BEACH</b> ENGINEERING DEPARTMENT IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b> LANDSCAPE & PLANTING PLAN DRAWING NO. <b>PL-6</b> Sheet 62 of 73
	DATE			By: _____ Date: _____ By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	ELEV.: _____ DATUM: M.S.L.	



PLANT SCHEDULE				
TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLIANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RIENSIS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A: 30" x 24" x 24" B: 18" x 12" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE - SEE DETAIL F ON PAGE LDSC17
	6"-8" 'MERICAN BEACH PEBBLE' COBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PAVERS - SEE DETAILS G/H ON PAGE LDSC17
	DG - SEE DETAIL I ON PAGE LDSC17
	WOOD MULCH - CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	2"-3" 'MERICAN BEACH PEBBLE' PEBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

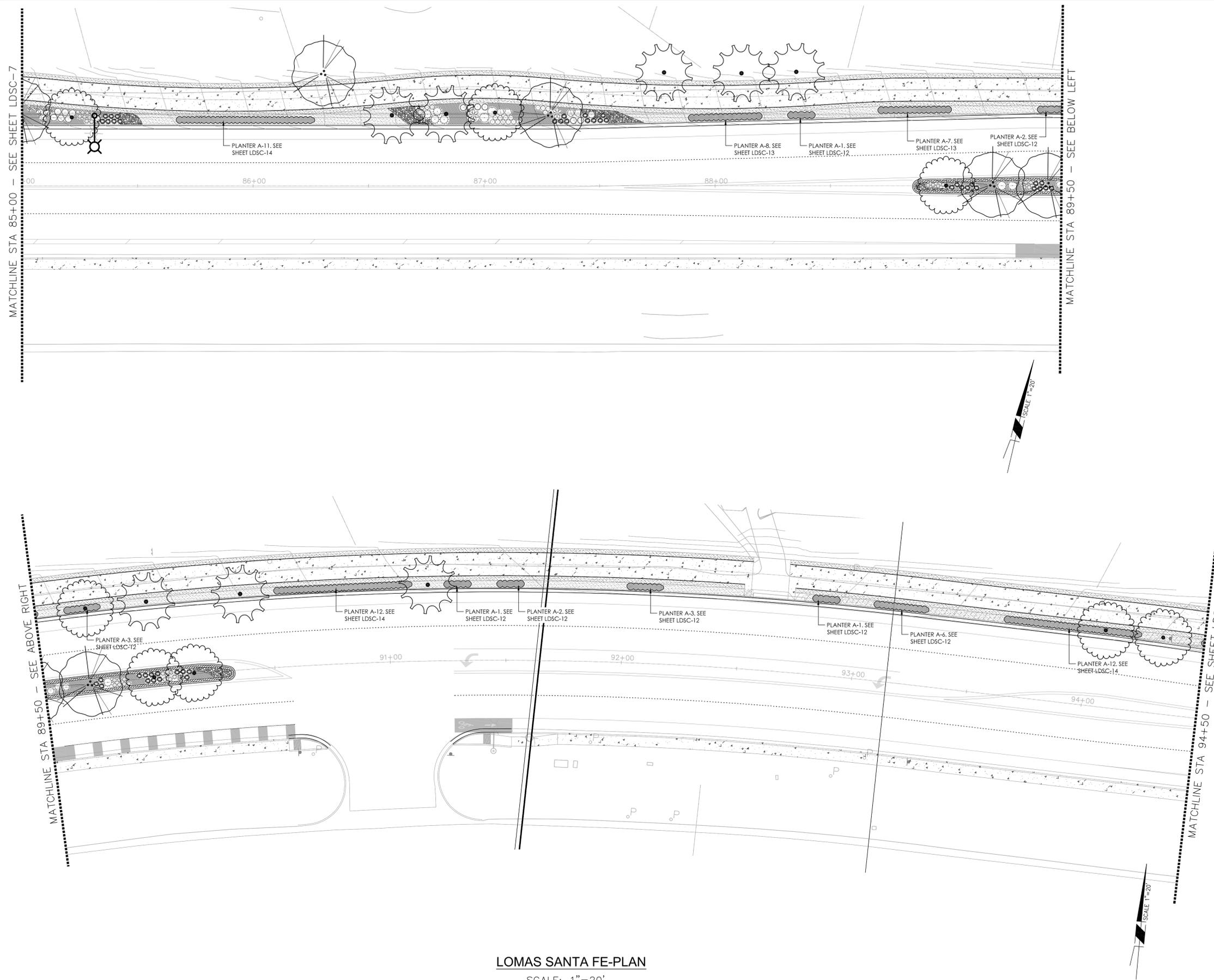
**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE: LDSC-7  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
				By: _____ Date: _____	By: _____ Date: _____		IMPROVEMENT PLANS FOR:	LANDSCAPE & PLANTING PLAN	<b>PL-7</b>
				By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		<b>LOMAS SANTA FE CORRIDOR</b>		Sheet 63 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



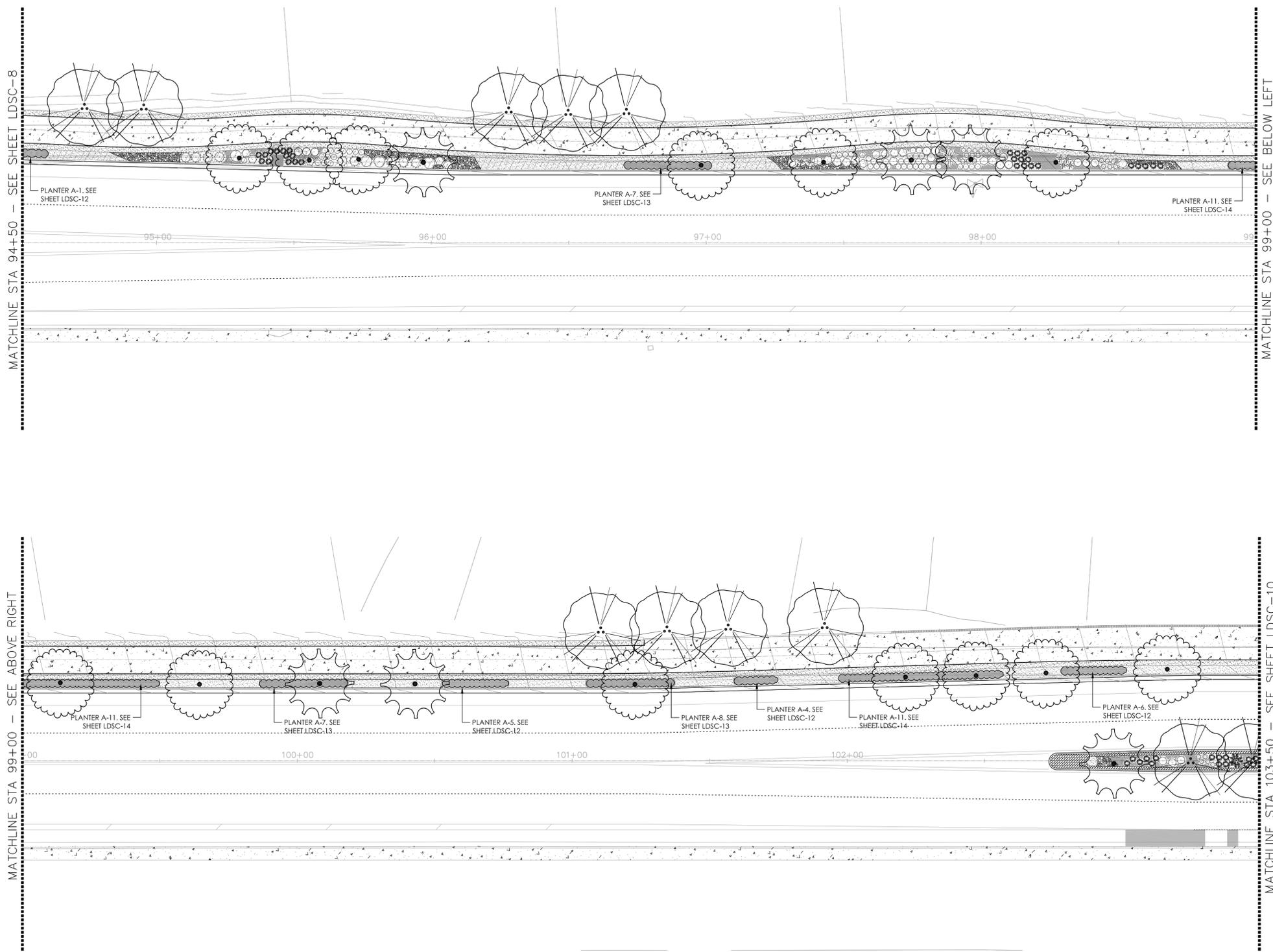
PLANT SCHEDULE				
TREES				
	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLANA TIPI	TIPI TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS				
	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANGOCANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	ILMONIUM PEREZII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RIENSIS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETYRICHUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDIA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A: 30" x 24" x 2 1/2" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE - SEE DETAIL F ON PAGE LDSC17
	B: 6" x 8" 'MERICAN BEACH PEBBLE' COBBLES FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PAVERS - SEE DETAILS G/H ON PAGE LDSC17
	DG - SEE DETAIL I ON PAGE LDSC17
	WOOD MULCH - CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" 'MERICAN BEACH PEBBLE' PEBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE: LDSC-8  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

 3765 S. Figueroa St., Ste. 102 • San Luis Obispo, CA 93401 P: (805) 545-1714 • F: (805) 545-4439 www.rrmdesign.com	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	ENGINEERING DEPARTMENT	DRAWING NO.
	DATE			By: _____ Date: _____	By: _____ Date: _____	DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.		CITY OF SOLANA BEACH LANDSCAPE & PLANTING PLAN	PL-8



### PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MMOSFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPIANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RISENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACCIDIA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

### SYMBOL LEGEND

	A: 30" x 24" x 2.25" B: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE	- SEE DETAIL F ON PAGE LDSC17
	B: 6" x 6" x 1.5" MERICAN BEACH PEBBLE COBBLES FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC17
	C: PAVERS	- SEE DETAILS G/H ON PAGE LDSC17
	D: DG	- SEE DETAIL I ON PAGE LDSC17
	E: WOOD MULCH	- CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" MERICAN BEACH PEBBLE PEBBLE FROM SOUTHWEST BOULDER & STONE	- SEE DETAIL E ON PAGE LDSC17
	G: PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS	

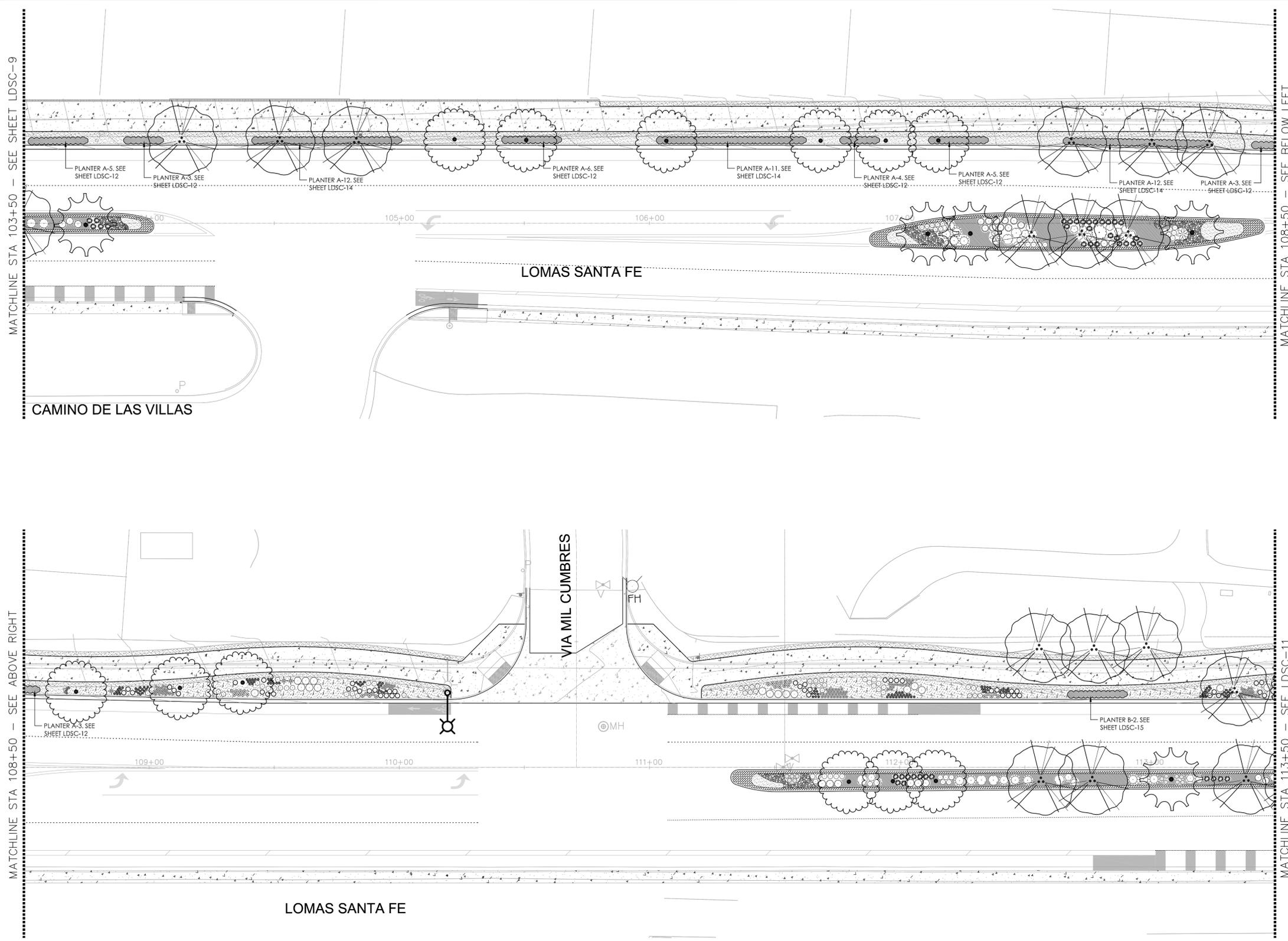
**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'

AS-BUILT  
PLAN CODE: LDSC-9  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
_____	_____	_____	_____	By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	_____	IMPROVEMENT PLANS FOR: <b>LOMAS SANTA FE CORRIDOR</b>	LANDSCAPE & PLANTING PLAN	<b>PL-9</b>
_____	_____	_____	_____	By: _____ Date: _____	_____	_____			Sheet 65 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



PLANT SCHEDULE				
TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
	(E) PALM TREE	EXISTING PALM	15 GAL	19
	(E) PALM TREE	TO BE RELOCATED	15 GAL	13
	ARBUTUS X 'MARINA'	ARBUTUS STANDARD	24"BOX	51
	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	15 GAL	40
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	15 GAL	8
	HYMENOSPORUM FLAVUM	SWEETSHADE	15 GAL	10
	JACARANDA MIMOSIFOLIA	JACARANDA MULTITRUNK	15 GAL	65
	MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM	SOUTHERN MAGNOLIA	15 GAL	2
	TIPLUANA TIPIU	TIPIU TREE	15 GAL	7
	X CHITALPA TASHKENTENSIS	CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	5 GAL	53
	AEONIUM ARBOREUM	TREE AEONIUM	5 GAL	22
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	11
	AGAVE AMERICANA	CENTURY PLANT	5 GAL	9
	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	11
	AGAVE X 'BLUE GLOW'	BLUE GLOW AGAVE	5 GAL	21
	ALOE STRIATA	CORAL ALOE	5 GAL	28
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	53
	BULBINELLA FLORIBUNDA	BULBINELLA	5 GAL	245
	CAREX TUMUKUCOLA	FOOTHILL SEDGE	5 GAL	69
	CHONDROPETALUM TECTORIUM	CAPE RUSH	5 GAL	26
	CYCAS REVOLUTA	SAGO PALM	5 GAL	9
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	5 GAL	150
	IRIS DOUGLASIANA	DOUGLAS IRIS	5 GAL	48
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	52
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE	1 GAL	28
	LIMONIUM PEREII	STATICE	5 GAL	110
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	52
	MUHLENBERGIA DUBIA	PINE MUHLY	5 GAL	5
	MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	62
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM	5 GAL	397
	PHORMIUM 'TENAX' 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO	1 GAL	361
	SETRINCHIUM BELLUM	BLUE EYED GRASS	5 GAL	133
	YUCCA FLACIDA 'GOLDEN SWORD'	GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A: 30" x 24" x 2 1/4" 18" C: 18" x 12" DESERT SAND BOULDERS FROM SOUTHWEST BOULDERS AND STONE - SEE DETAIL F ON PAGE LDSC17
	B: 6" x 6" x 2" AMERICAN BEACH PEBBLE COBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	C: PAVERS - SEE DETAILS G/H ON PAGE LDSC17
	D: DG - SEE DETAIL I ON PAGE LDSC17
	E: WOOD MULCH - CITY PREFERRED MULCH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
	F: 2" x 3" AMERICAN BEACH PEBBLE COBBLE FROM SOUTHWEST BOULDER & STONE - SEE DETAIL E ON PAGE LDSC17
	G: PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

LOMAS SANTA FE-PLAN  
SCALE: 1"=20'

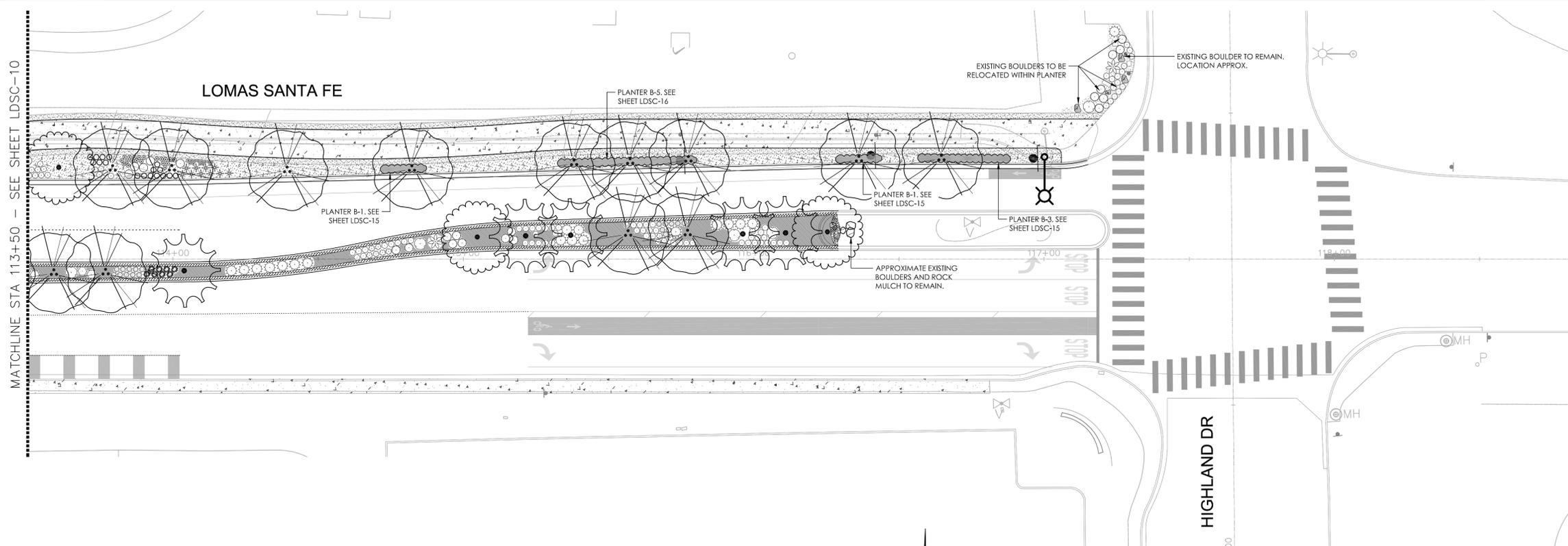
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PLAN CODE: LDSC-10  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	ELEV.: _____ DATUM: M.S.L.

CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
IMPROVEMENT PLANS FOR:	LANDSCAPE & PLANTING PLAN	PL-10
LOMAS SANTA FE CORRIDOR		Sheet 66 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



**LOMAS SANTA FE-PLAN**  
SCALE: 1"=20'



PLANT SCHEDULE				
TREES	BOTANICAL NAME	COMMON NAME	CONT	QTY
(E) PALM TREE		EXISTING PALM	15 GAL	19
(E) PALM TREE		TO BE RELOCATED	15 GAL	13
ARBUTUS X 'MARINA'		ARBUTUS STANDARD	24"BOX	51
BAUHINIA X BLAKEANA		HONG KONG ORCHID TREE	15 GAL	40
CASSIA LEPTOPHYLLA		GOLD MEDALLION TREE	15 GAL	8
HYMENOSPORUM FLAVUM		SWEETSHADE	15 GAL	10
JACARANDA MMOSIFOLIA		JACARANDA MULTITRUNK	15 GAL	65
MAGNOLIA GRANDIFLORA 'MAJESTIC BEAUTY' TM		SOUTHERN MAGNOLIA	15 GAL	2
TIPLANA TIJU		TIJU TREE	15 GAL	7
X CHITALPA TASHKENTENSIS		CHITALPA	24"BOX	3
SHRUBS	BOTANICAL NAME	COMMON NAME	CONT	QTY
ACHILLEA X 'MOONSHINE'		MOONSHINE YARROW	5 GAL	53
AEONIUM ARBOREUM		TREE AEONIUM	5 GAL	22
AEONIUM ARBOREUM 'ATROPURPUREUM'		TREE AEONIUM	5 GAL	11
AGAVE AMERICANA		CENTURY PLANT	5 GAL	9
AGAVE VILMORINIANA		OCTOPUS AGAVE	5 GAL	11
AGAVE X 'BLUE GLOW'		BLUE GLOW AGAVE	5 GAL	21
ALOE STRIATA		CORAL ALOE	5 GAL	28
ANGOCANTHOS X 'BIG RED'		BIG RED KANGAROO PAW	5 GAL	53
BULBINELLA FLORIBUNDA		BULBINELLA	5 GAL	245
CAREX TUMULUCOLA		FOOTHILL SEDGE	5 GAL	69
CHONDROPETALUM TECTORIUM		CAPE RUSH	5 GAL	26
CYCAS REVOLUTA		SAGO PALM	5 GAL	9
FESTUCA RUBRA 'MOLATE'		MOLATE RED FESCUE	5 GAL	150
IRIS DOUGLASIANA		DOUGLAS IRIS	5 GAL	48
JUNCUS PATENS		CALIFORNIA GRAY RUSH	1 GAL	52
LEYMUS CONDENSATUS 'CANYON PRINCE'		NATIVE BLUE RYE	1 GAL	28
ILMONIUM PEREZII		STATICE	5 GAL	110
LOMANDRA LONGIFOLIA 'BREEZE'		DWARF MAT RUSH	1 GAL	52
MUHLENBERGIA DUBIA		PINE MUHLY	5 GAL	5
MUHLENBERGIA RISENS		DEER GRASS	1 GAL	62
MYOPORUM PARVIFOLIUM		TRAILING MYOPORUM	5 GAL	397
PHORMIUM TENAX 'BRONZE BABY'		BRONZE BABY NEW ZEALAND FLAX	5 GAL	53
SENECIO MANDRALISCAE 'BLUE CHALK STICKS'		SENECIO	1 GAL	361
SETYRICHUM BELLUM		BLUE EYED GRASS	5 GAL	133
YUCCA FLACCIDA 'GOLDEN SWORD'		GOLDEN SWORD YUCCA	5 GAL	10

SYMBOL LEGEND	
	A: 30-24\"/>
	B: 6-18\"/>
	PAVERS
	DG
	WOOD MULCH
	2-3\"/>
	PLANTER AREA - REFER TO SHEET LISTED FOR DETAILS

AS-BUILT  
 PLAN CODE LDSC-11  
 By: \_\_\_\_\_ Date: \_\_\_\_\_  
 R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

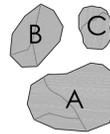


ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
				By: _____ Date: _____	By: Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING PLAN	PL-11
				By: _____ Date: _____		ELEV.: _____ DATUM: M.S.L.			Sheet 67 of 73

**PLANT SCHEDULE**

SHRUBS	BOTANICAL NAME	COMMON NAME
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM
	ALOE STRIATA	CORAL ALOE
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH
	MUHLENBERGIA DUBIA	PINE MUHLY
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO

**SYMBOL LEGEND**

 12", 18" AND 24" 'DESERT SAND' BOULDERS FROM SOUTHWEST BOULDER & STONE

 DECOMPOSED GRANITE

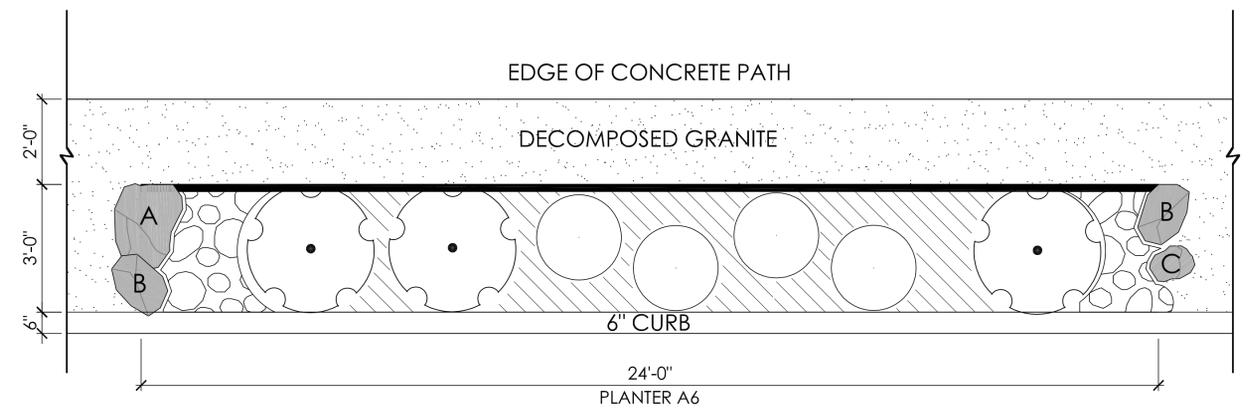
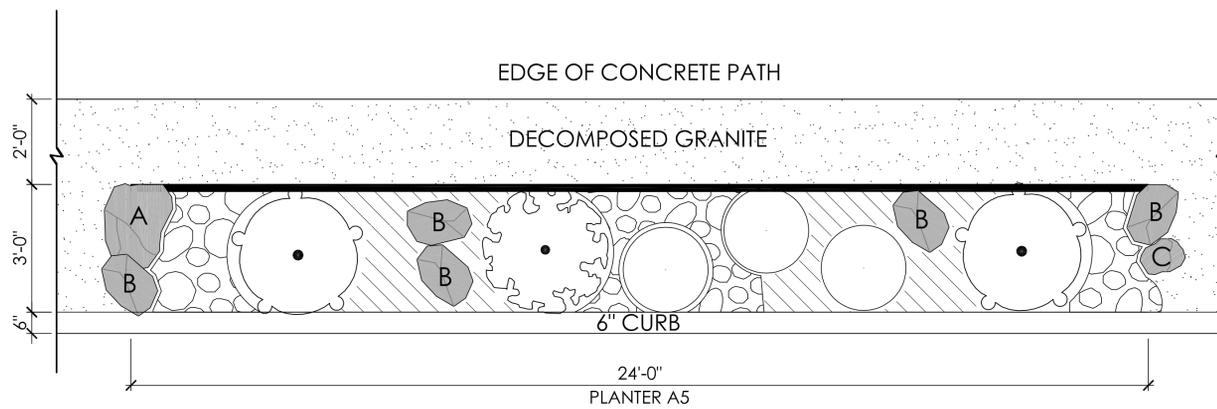
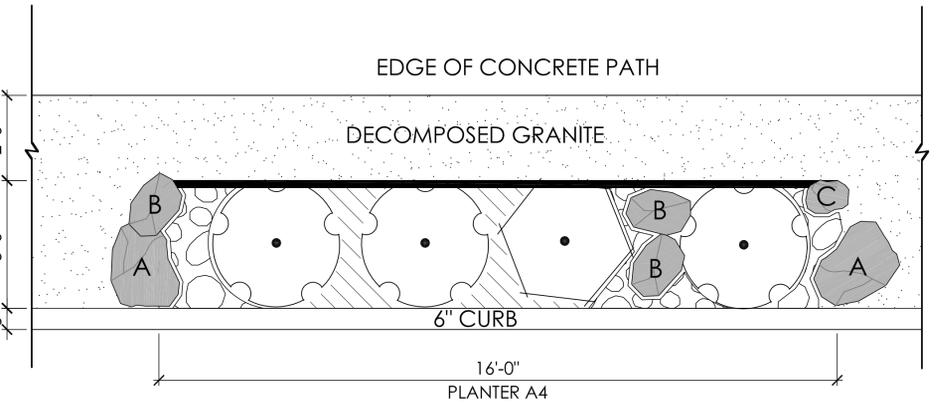
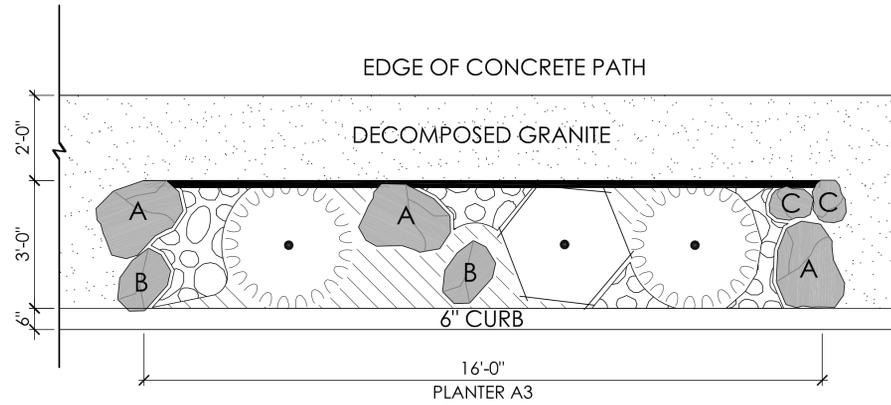
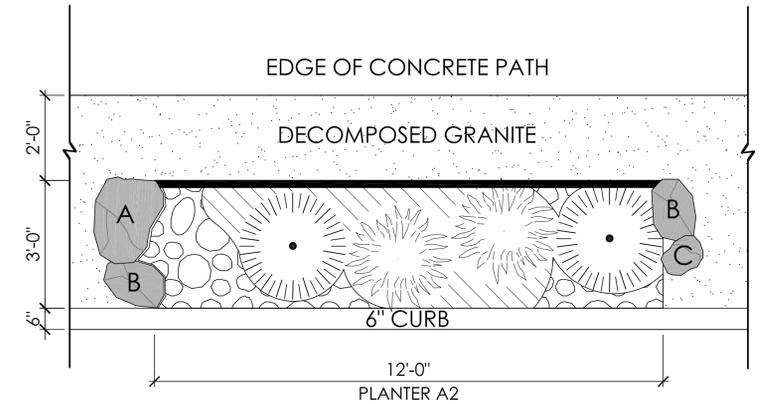
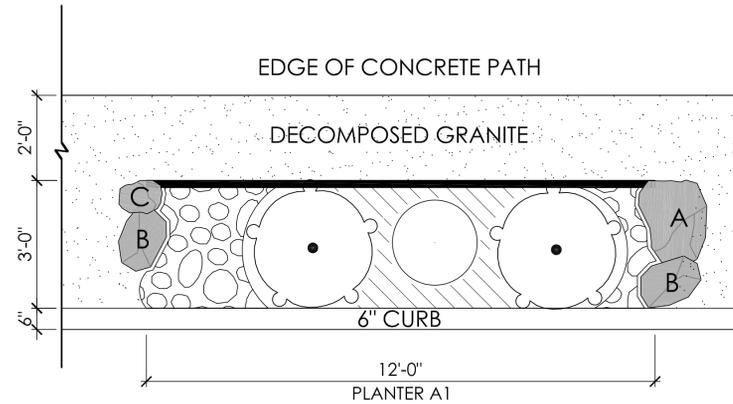
 WOOD MULCH

 6"-8" 'MEXICAN BEACH PEBBLE' COBBLE 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.



**A** PARKWAY PLANTER  
1/2" = 1'-0"

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

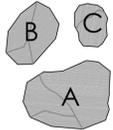
PLAN CODE LDSC-12  
AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
				By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22		IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING DETAILS	<b>PL-12</b>
				By: _____ Date: _____		ELEV.: _____ DATUM: M.S.L.			Sheet 68 of 73

**PLANT SCHEDULE**

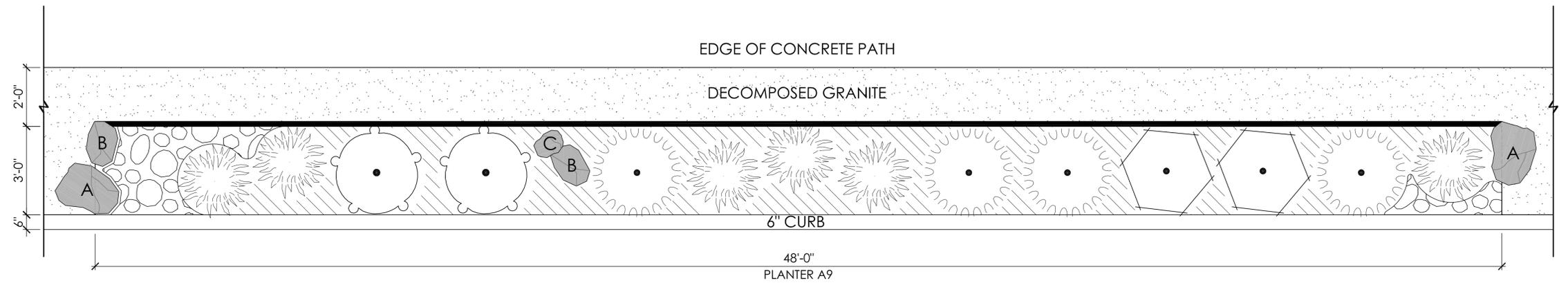
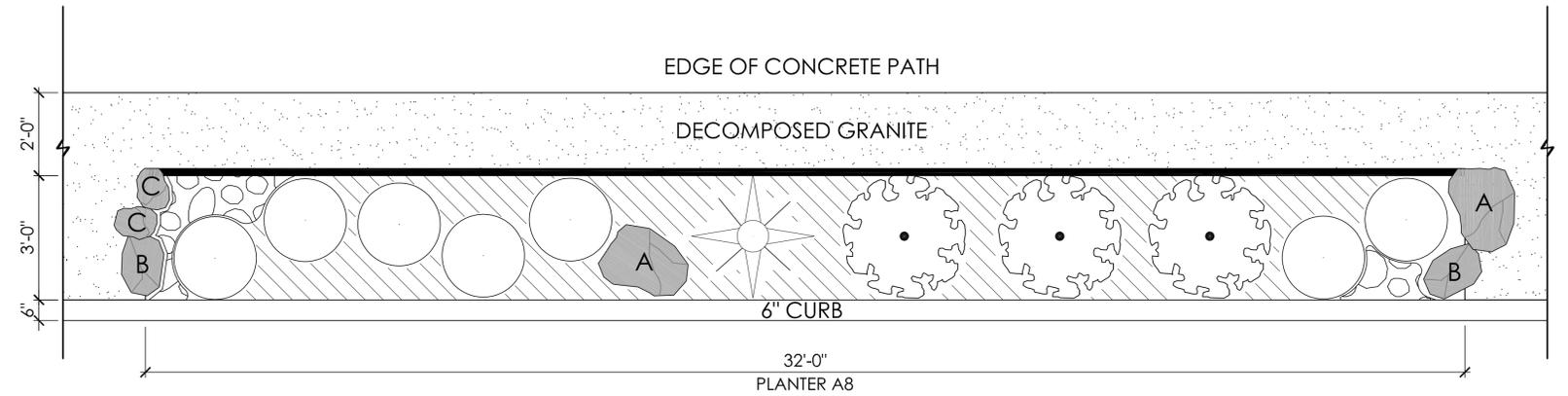
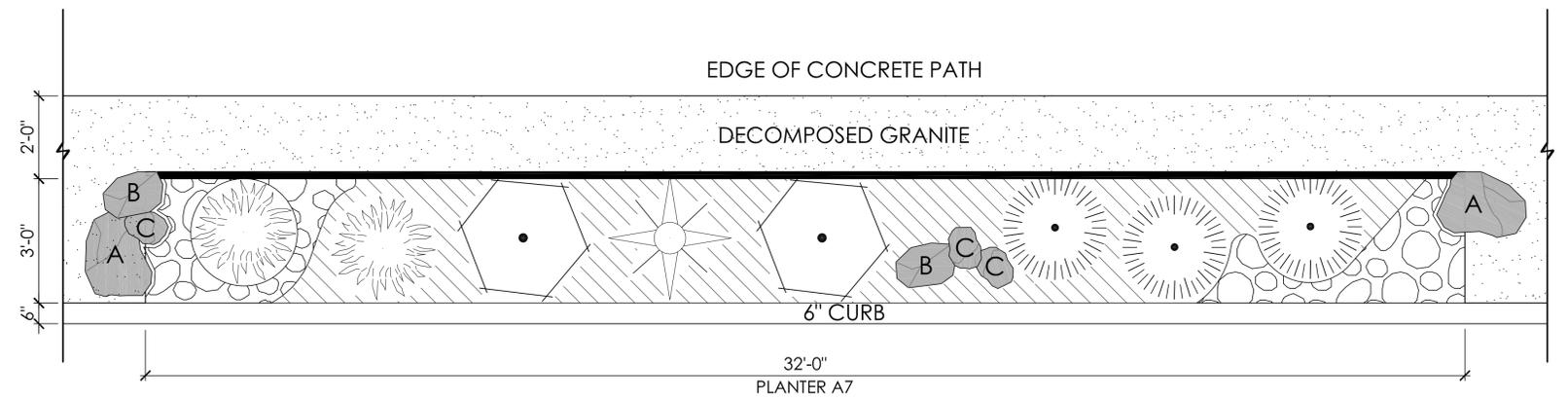
SHRUBS	BOTANICAL NAME	COMMON NAME
	AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM
	ALOE STRIATA	CORAL ALOE
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE
	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH
	MUHLENBERGIA DUBIA	PINE MUHLY
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO

**SYMBOL LEGEND**

	12', 18" AND 24" 'DESERT SAND' BOULDERS FROM SOUTHWEST BOULDER & STONE
	DECOMPOSED GRANITE
	WOOD MULCH
	6"-8" 'MEXICAN BEACH PEBBLE' COBBLE 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.



**A** PARKWAY PLANTER  
1/2" = 1'-0"

PLAN CODE LDSC-13  
AS-BUILT  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.	IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING DETAILS	<b>PL-13</b>
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____	_____	_____	_____	Sheet 69 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

**SYMBOL LEGEND**

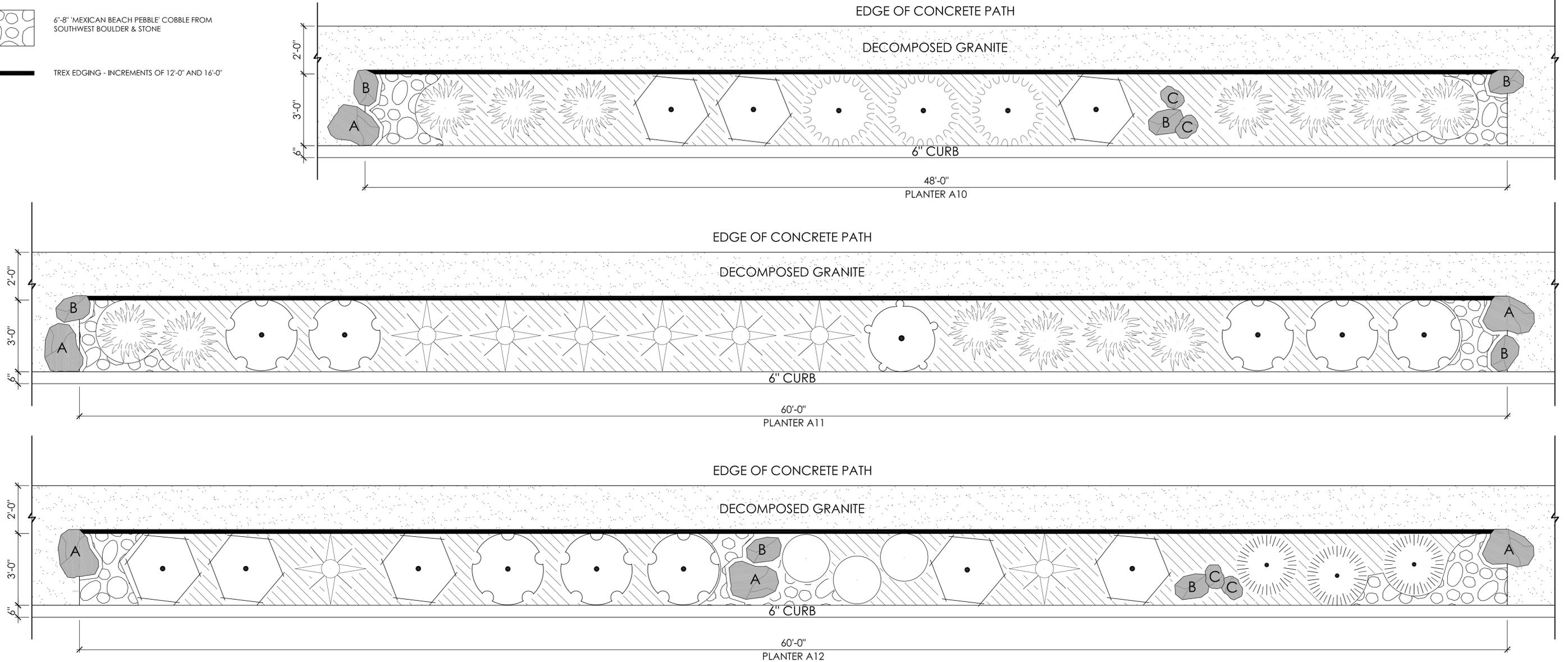
-  12", 18" AND 24" 'DESERT SAND' BOULDERS FROM SOUTHWEST BOULDER & STONE
- 
- 
-  DECOMPOSED GRANITE
-  WOOD MULCH
-  6"-8" 'MEXICAN BEACH PEBBLE' COBBLE FROM SOUTHWEST BOULDER & STONE
-  TREX EDGING - INCREMENTS OF 12'-0" AND 16'-0"

**PLANT SCHEDULE**

SHRUBS	BOTANICAL NAME	COMMON NAME
	ALOE STRIATA	CORAL ALOE
	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE
	MUHLENBERGIA DUBIA	PINE MUHLY
	MYOPORUM PARVIFOLIUM	TRAILING MYOPORUM
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX
	SENECIO MANDRALISCAE 'BLUE CHALK STICKS'	SENECIO

**NOTES:**

- ADJUST OR REMOVE PLANT, WHERE TREE MAY OCCUR. SEE PLANS FOR TREE LOCATIONS.
- 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.



**(A) PARKWAY PLANTER**  
1/2" = 1'-0"

RRM-LO-15

AS-BUILT

**PLAN CODE**  
LDSC-14

By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

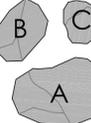
ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.	IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING DETAILS	<b>PL-14</b>
DATE									Sheet 70 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

**PLANT SCHEDULE**

SHRUBS	BOTANICAL NAME	COMMON NAME
	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW
	CAREX TUMULICOLA	FOOTHILL SEDGE
	CHONDRPETALUM TECTORUM	CAPE RUSH
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE
	IRIS DOUGLASIANA	DOUGLAS IRIS
	JUNCUS PATENS	CALIFORNIA GRAY RUSH
	LEYMUS CONDENSATUS 'CANYON PRINCE'	NATIVE BLUE RYE
	PHORMIUM TENAX 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX
	SISYRINCHIUM BELLUM	BLUE EYED GRASS

**SYMBOL LEGEND**

 12", 18" AND 24" 'DESERT SAND' BOULDERS FROM SOUTHWEST BOULDER & STONE

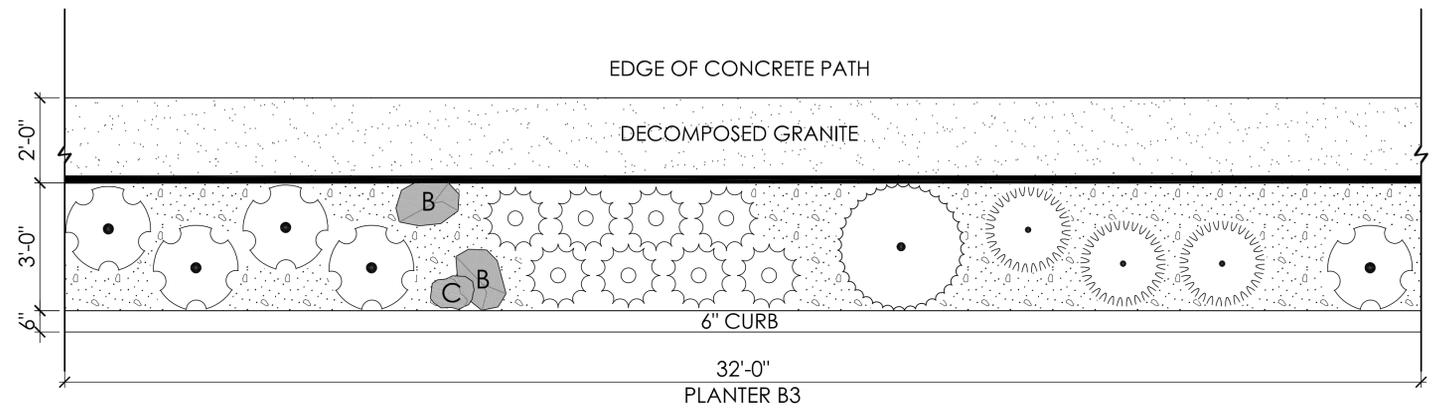
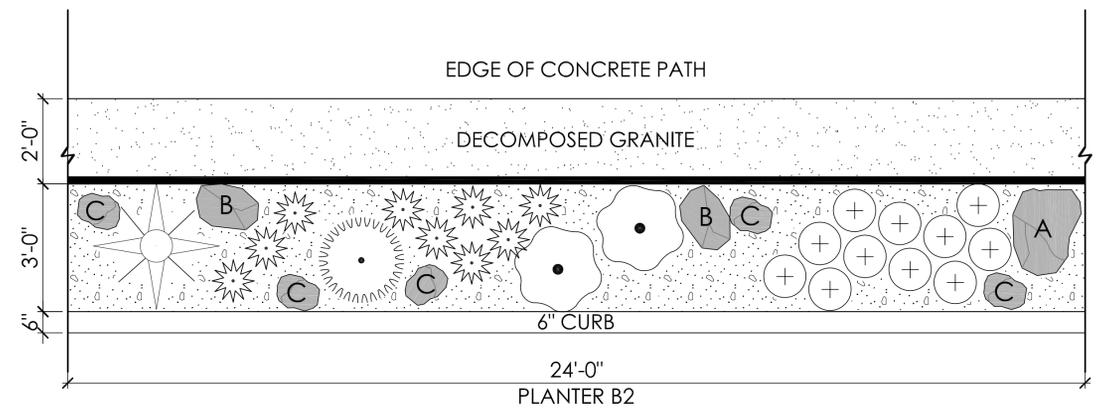
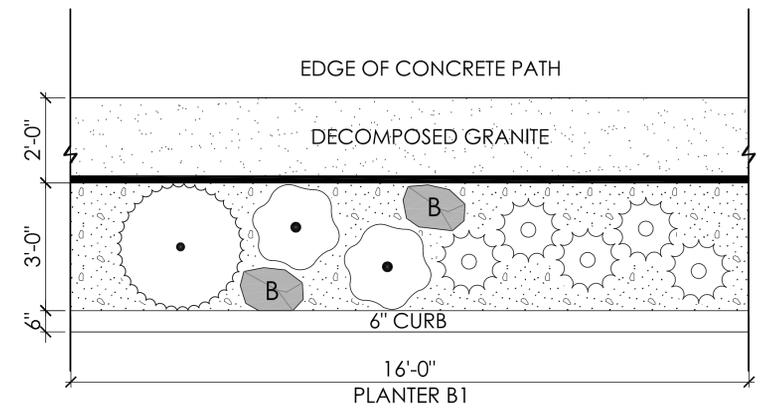
 DECOMPOSED GRANITE

 1"-2" 'MEXICAN BEACH PEBBLE' PEBBLE FROM SOUTHWEST BOULDER & STONE

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

**NOTES:**

- ADJUST OR REMOVE PLANT, WHERE TREE MAY OCCUR. SEE PLANS FOR TREE LOCATIONS.
- 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.



**(A) WATER QUALITY PLANTER**  
1/2" = 1'-0"

AS-BUILT  
PLAN CODE LDSC-15  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.	IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING DETAILS	<b>PL-15</b>
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____	By: _____ Date: _____			Sheet 71 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION

**PLANT SCHEDULE**

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

**SYMBOL LEGEND**

12", 18" AND 24" 'DESERT SAND' BOULDERS FROM SOUTHWEST BOULDER & STONE

B

C

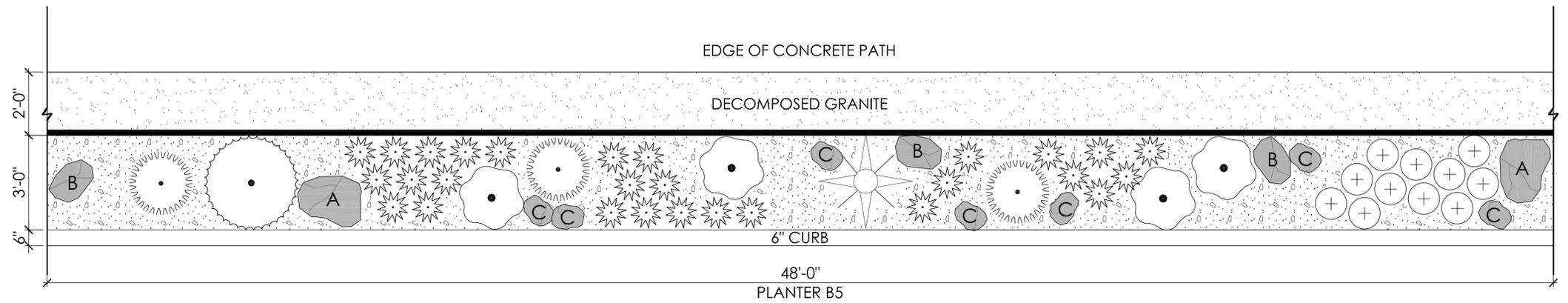
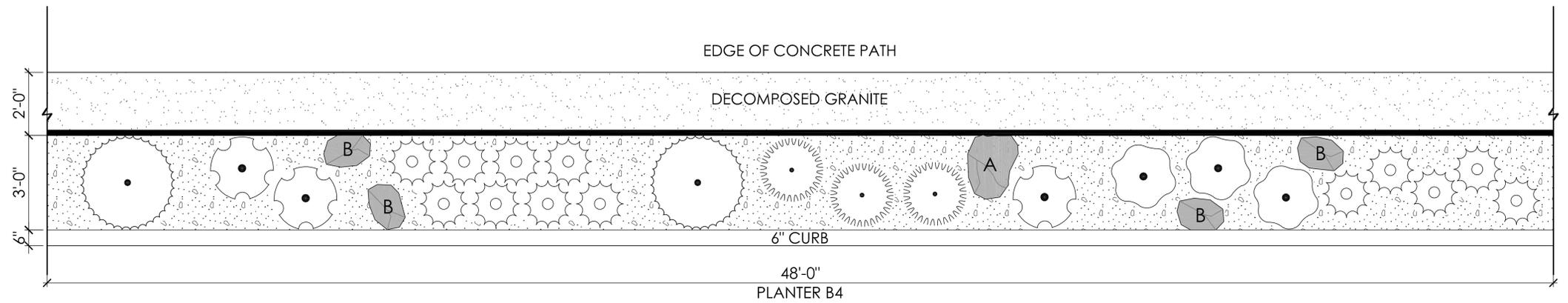
DECOMPOSED GRANITE

1"-2" 'MEXICAN BEACH PEBBLE' PEBBLE FROM SOUTHWEST BOULDER & STONE

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

**NOTES:**

- ADJUST OR REMOVE PLANT, WHERE TREE MAY OCCUR. SEE PLANS FOR TREE LOCATIONS.
- 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.



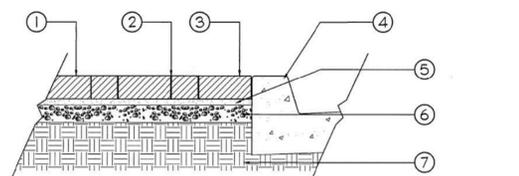
**A** WATER QUALITY PLANTER  
1/2" = 1'-0"

AS-BUILT

PLAN CODE LDSC-16  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_

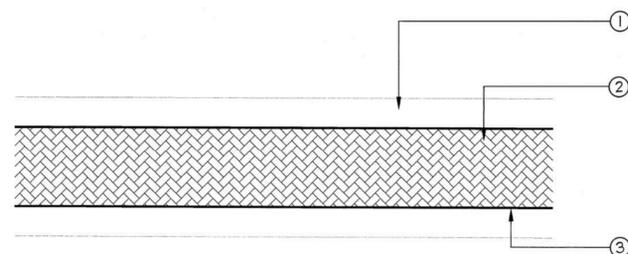
ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	DRAWING NO.
_____	_____	_____	_____	By: _____ Date: _____	By: _____ Date: _____ Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	DESCRIPTION: LOCATION: ELEV.: _____ DATUM: M.S.L.	IMPROVEMENT PLANS FOR: LOMAS SANTA FE CORRIDOR	LANDSCAPE & PLANTING DETAILS	<b>PL-16</b>
_____	_____	_____	_____	By: _____ Date: _____					Sheet 72 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION



- 1 PRECAST PAVERS
- 2 INSTALL PAVERS HAND TIGHT WITH JOINTS APPROXIMATELY 1/8"
- 3 TAMP PAVERS WITH MECHANICAL VIBRATOR UNFORMLY LEVEL TRUE TO GRADE AND FREE OF MOVEMENT
- 4 CURB AND GLITTER PER CIVIL DOCUMENTS
- 5 PLACE BEDDING COURSE OF CONC. SAND TO A UNIFORM DEPTH OF APPROX 1"
- 6 EXCAVATE UNSUITABLE, UNSTABLE OR UNCONSOLIDATED SUBGRADE MATERIAL AND COMPACT THE AREA WHICH HAS BEEN CLEARED. BACKFILL AND LEVEL WITH 5" CLASS 2 BASE.
- 7 COMPACTED SUBGRADE

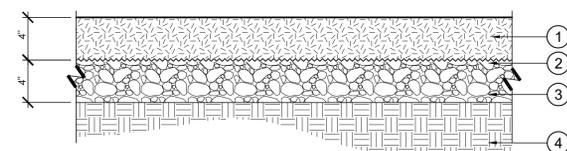
**H CONCRETE PAVERS SECTION**  
NTS  
DETAIL-FILE



- 1 CURB AND GLITTER PER CIVIL DOCUMENTS
- 2 PRECAST PAVERS MAKE ACKER-STONE OR EQUAL STYLE. GRANITINE COLOR. TERRA COTTA PATTERN. HERRINGBONE
- 3 WHERE REQUIRED CUT PAVERS WITH AN APPROVED CUTTER TO FIT ACCURATELY

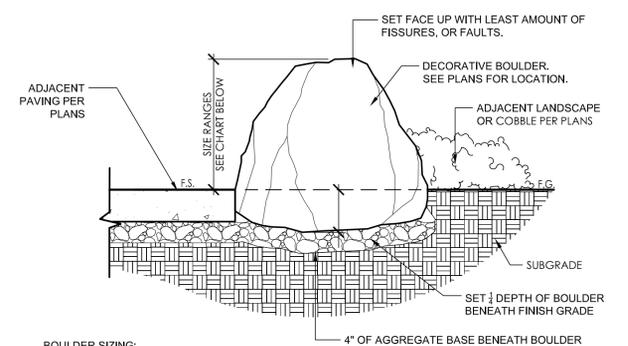
**G CONCRETE PAVERS PLAN**  
NTS  
DETAIL-FILE

- 1 4" THICK DECOMPOSED GRANITE PAVING. COLOR AS APPROVED. COMPACT TO 90% RELATIVE COMPACTION
- 2 GEOSYNTHETIC FABRIC
- 3 2" AGGREGATE BASE @ 90% RELATIVE COMPACTION
- 4 NATURAL SUB-GRADE



NOTES:  
1) SEE CIVIL SHEETS/SPECS FOR WATER QUALITY PLANTER SOIL

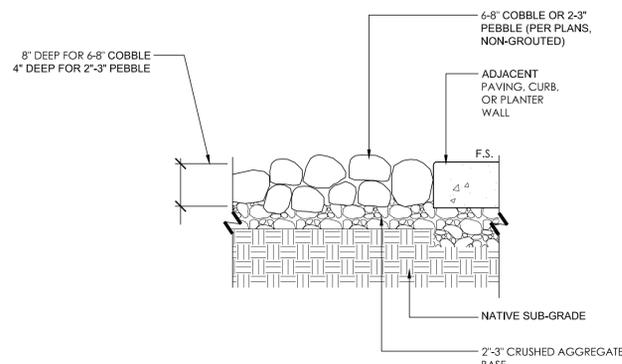
**I DECOMPOSED GRANITE PAVING**  
1" = 1'-0"  
RRM-LO-25



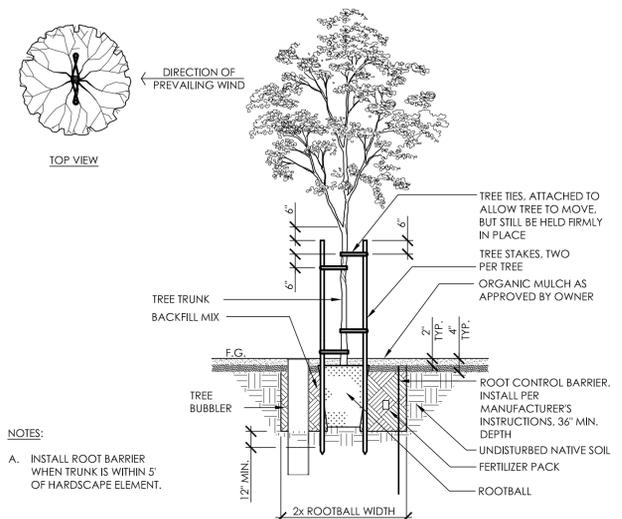
**BOULDER SIZING:**  
PROVIDE QUANTITIES OF BOULDERS PER QUANTITIES SHOWN ON PLANS. APPROXIMATE SIZE OF BOULDERS:  
SIZE A: 24"-30"  
SIZE B: 24"-18"  
SIZE C: 18"-12"

- NOTES:  
A. PROVIDE TYPICAL PHOTOGRAPHS OF BOULDERS FOR APPROVAL FROM AUTHORIZED REPRESENTATIVE PRIOR TO PURCHASING  
B. SEE CONSTRUCTION PLANS FOR SURROUNDING PAVING TYPE.  
C. BOULDERS TO BE DESERT SAND FROM BOULDERS SOUTHWEST BOULDER AND STONE

**F LANDSCAPE BOULDER INSTALLATION**  
3/4" = 1'-0"  
RRM-LO-22

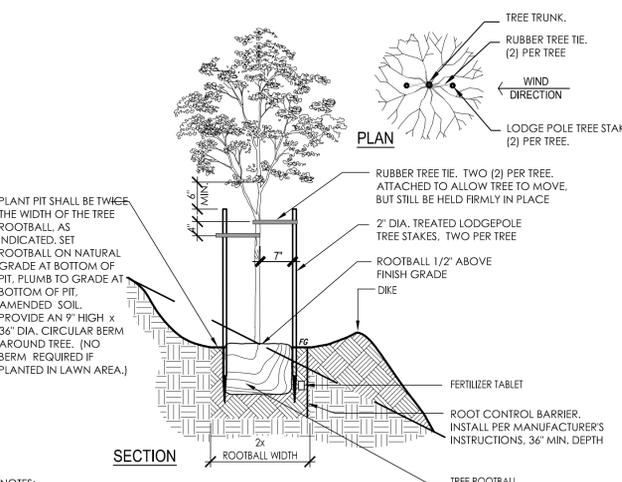


**E 2-3" PEBBLE & 6-8" COBBLE**  
1" = 1'-0"  
RRM-LO-16



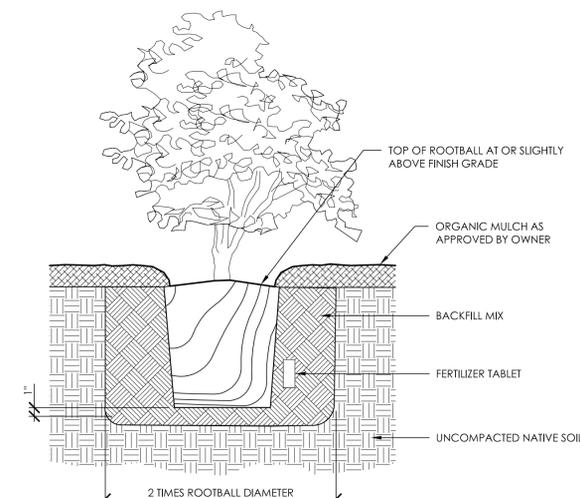
NOTES:  
A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF HARDSCAPE ELEMENT.

**D TREE PLANTING WITH WOOD STAKES**  
1/2" = 1'-0"  
RRM-LO-21

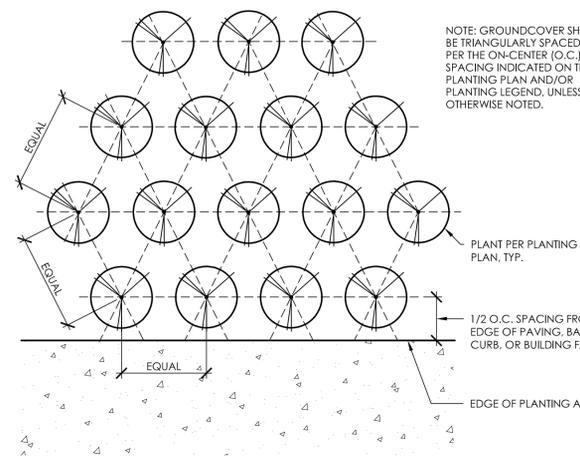


NOTES:  
A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF HARDSCAPE ELEMENT.

**C TREE PLANTING ON SLOPE**  
1/2" = 1'-0"  
RRM-LO-20



**B SHRUB PLANTING**  
1 1/2" = 1'-0"  
RRM-LO-18



NOTE: GROUNDCOVER SHALL BE TRIANGULARLY SPACED PER THE ON-CENTER (O.C.) SPACING INDICATED ON THE PLANTING PLAN AND/OR PLANTING LEGEND, UNLESS OTHERWISE NOTED.

**A GROUNDCOVER SPACING**  
1 1/2" = 1'-0"  
RRM-LO-19

AS-BUILT

PLAN CODE: LDSC-17  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
R.C.E.: \_\_\_\_\_ Exp: \_\_\_\_\_



3765 S. Highway 91, Ste. 102 • San Luis Obispo, CA 93401  
Tel: (805) 545-1711 • Fax: (805) 545-4009  
www.rrmdesign.com



ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK
			By: _____ Date: _____	By: _____ Date: _____	
			By: _____ Date: _____	Mohammad Sammak, City Engineer R.C.E.: 37146 Exp: 6/30/22	

<b>CITY OF SOLANA BEACH</b>	ENGINEERING DEPARTMENT	DRAWING NO.
IMPROVEMENT PLANS FOR:	LANDSCAPE & PLANTING DETAILS	<b>PL-17</b>
<b>LOMAS SANTA FE CORRIDOR</b>		Sheet 73 of 73

100% PLANS - DECEMBER 10, 2021. NOT FOR CONSTRUCTION