ROUGH GRADING PLAN FOR
OCEAN KAMP–OCEANSIDE

GRADING PLAN DESIGN NOTES

1. ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY'S CURRENT GRADING ORDINANCE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS) AND THE "SAN DIEGO AREA REGIONAL STANDARD DRAWINGS", AS AMENDED BY THE CITY SUPPLEMENTS, AND THE EARTHWORK SPECIFICATIONS ATTACHED TO THE "PRELIMINARY SOILS REPORTS".
2. THE DEVELOPER SHALL BE RESPONSIBLE FOR LANDSCAPING, FOR SLOPE STABILIZATION OF ALL EMBANKMENTS OVER 3 FEET IN HEIGHT, WITHIN 45 DAYS OF COMPLETION OF PRELIMINARY GRADING. PERMANENT IRRIGATION SYSTEMS SHALL BE INSTALLED FOR ALL EMBANKMENTS OVER 5 FEET IN HEIGHT (AND FOR ALL SLOPES ALONG MAJOR STREETS). LANDSCAPING SPECIFICATIONS, AND PLANS AS REQUIRED, SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ISSUANCE OF THE GRADING PERMIT. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE OF SLOPE STABILIZATION LANDSCAPING UNTIL RELEASE OF THE GRADING BOND OR UNTIL INDIVIDUAL LOTS (OR LIVING UNITS) CLOSE ESCROW, WHICHEVER OCCURS LATER.
3. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER.
4. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OF CROSS SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER. FINISH SLOPES SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS OR OTHER WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFFSITE.
5. COMPACTION TESTS SHALL BE SUPPLIED FOR TRENCHES.
6. ALL EXISTING, ABANDONED PIPELINES SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED SOILS UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
7. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES.
8. NEITHER THE OWNER NOR 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.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK AND THE DEVELOPMENT SERVICES DEPARTMENT ENGINEERING INSPECTOR PRIOR TO PERFORMING ROCK–REMOVAL OPERATIONS.
10. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL A VALID LAND DEVELOPMENT (GRADING) PERMIT HAS BEEN ISSUED, AND ALL AFFECTED PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED.
11. THESE PLANS ARE SUBJECT TO A SIGNED AND APPROVED SET OF IMPROVEMENT PLANS.
12. A PERMIT, SUPPLEMENTED WITH A TRAFFIC CONTROL PLAN, SHALL BE SUBMITTED TO THE CITY FOR ANY WORK WITHIN EXISTING CITY RIGHT–OF–WAY AND/OR EASEMENTS.
13. ALL ROCK–SLOPE PROTECTION SHALL BE RIP RAP UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
14. ALL MASONRY RETAINING WALLS, EXCEPT THOSE LESS THAN FOUR FEET HIGH AND NOT SUPPORTING A SURCHARGE, REQUIRE A PERMIT FROM THE BUILDING DIVISION. ALL SEGMENTAL RETAINING WALL SYSTEMS, EXCEPT THOSE LESS THAN THREE FEET HIGH AND NOT SUPPORTING A SURCHARGE, REQUIRE A PERMIT FROM THE ENGINEERING DIVISION.
15. MAXIMUM SLOPE RATIO SHALL BE 2:1.
16. A 12–INCH HIGH BY 4–FOOT WIDE BERM (90% COMPACTED) SHALL BE CONSTRUCTED ALONG THE TOP OF THE SLOPE. NO RUNOFF SHALL FLOW OVER THE TOP OF THE SLOPE. DOWNDRAINS SHALL BE USED PER D–75.
17. FOR THIS PLAN TO BECOME EFFECTIVE, AN APPROVED HAUL ROUTE PLAN THAT HAS BEEN APPROVED BY THE CITY SHALL BE INCLUDED [(FOR HAULING OF MATERIAL (DIRT) ON A PUBLIC STREET)].
18. LOT GRADING IS TO BE IN ACCORDANCE WITH CITY SUPPLEMENT DRAWING M–12 ("TYPICAL LOT GRADING").
19. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER.
20. ALL DISTURBED AREAS MUST BE REVEGETATED, SUBSTANTIALLY GERMINATED, AND ESTABLISHED WITHIN 45 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION.
21. IMPORT MATERIAL SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT A SITE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTES OR ADJACENT STREETS AS DIRECT RESULT OF THE OPERATION.
22. IT IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER TO EVALUATE AND DETERMINE THAT ALL SOIL IMPORTED AS PART OF THIS DEVELOPMENT IS FREE OF HAZARDOUS AND/OR CONTAMINATED MATERIAL AS DEFINED BY CITY AND COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH. EXPORTED OR IMPORTED SOILS SHALL BE PROPERLY SCREENED, TESTED, AND DOCUMENTED REGARDING HAZARDOUS CONTAMINATION.
23. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A CONSTRUCTION SEQUENCE PLAN THAT WILL OUTLINE THE ORDER OF WORK TO BE DONE, PRIOR TO ISSUANCE OF A GRADING PERMIT. THIS CONSTRUCTION SEQUENCE IS TO BE PRESENTED AT THE PRE–CONSTRUCTION MEETING PRIOR TO THE JOB START.

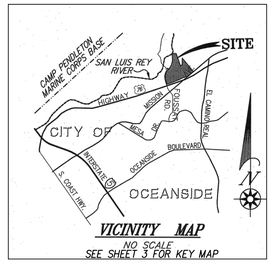
GRADING PLAN DESIGN CERTIFICATES

1. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER AND ENGINEERING GEOLOGIST AND IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE APPROVED SOILS AND GEOLOGICAL REPORT PREPARED BY:
   - REPORT OF TESTING AND OBSERVATION SERVICES DURING FIRST PHASE OF SITE GRADING, OCEANSIDE KAMP OCEANSIDE, CA. PROJECT NO. G2322–32–03 PREPARED BY GEOCON INC. DATED 10/17/2024
   - SUPPLEMENTAL GEOTECHNICAL INVESTIGATION OCEAN KAMP OCEANSIDE, CA. PROJECT NO. G2322–32–04A PREPARED BY GEOCON INC. DATED 12/21/2023
   - UPDATE GEOTECHNICAL INVESTIGATION ZEPHYR– OCEANSIDE OCEANSIDE, CA. PROJECT NO. G2322–32–01 PREPARED BY GEOCON INC. DATED 08/13/2019

   THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE SOILS AND GEOLOGICAL REPORT PREPARED FOR THIS DEVELOPMENT.

BY: _____ R.C.E. NO. 63773 DATE: _____
TREVOR E. MYERS

BY: _____ C.E.G. NO. 1860 DATE: _____
DAVID B. EVANS



VICINITY MAP
NO SCALE
SEE SHEET 3 FOR KEY MAP

"DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS PREPARED BY BOWMAN AS SHOWN ON SHEETS 1–31 AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THIS LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

_____ _____
MARINA WURST, R.C.E. C67513 DATE
REGISTRATION EXPIRES 06–30–2025

CIVIL ENGINEER CERTIFICATION (AS-BUILT)

I HEREBY CERTIFY THAT AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, I HAVE SUPERVISED THE CONSTRUCTION OF THE ENGINEERING WORK AS SHOWN ON THESE PLANS INCLUDING THE PERIODIC OBSERVATION OF MATERIALS AND COMPLETED WORK TO DETERMINE GENERAL COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND THAT THE COMPLETED CONSTRUCTION IS IN CONFORMANCE WITH THESE PLANS.

I ALSO CERTIFY THAT ALL CHANGES AND/OR ADDITIONS MADE DURING CONSTRUCTION, ALL INFORMATION AS REQUIRED BY THE CITY OF OCEANSIDE GRADING ORDINANCE, AND ALL RECOMMENDATIONS FROM THE SOILS ENGINEERING AND ENGINEERING GEOLOGY REPORTS PREPARED FOR THIS PROJECT HAVE BEEN INCORPORATED IN THESE PLANS.

_____ _____
MARINA WURST, R.C.E. C67517 DATE

SOILS ENGINEER CERTIFICATION (AS-BUILT)

WE HEREBY CERTIFY THAT WE HAVE PROVIDED PROFESSIONAL TESTING AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS, TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES, DESIGN OF BUTTRESS FILLS WHERE REQUIRED, THE ADEQUACY OF THE NATURAL GROUND FOR RECEIVING FILL, THE STABILITY OF CUT SLOPES WITH RESPECT TO GEOLOGICAL MATTERS AND THE NEED FOR SUBDRAINS AND OTHER GROUNDWATER DRAINAGE DEVICES, AND THAT THESE GRADING PLANS ACCURATELY REFLECT ALL CONDITIONS AND CONSTRUCTION RECOMMENDATIONS PREPARED FOR THIS PROJECT AS DATED: _____, _____, _____, _____.

SOILS ENGINEER OF RECORD: _____ 63773
TREVOR E. MYERS LICENSE NO.

ENGINEERING GEOLOGIST OF RECORD: _____ 1860
DAVID B. EVANS LICENSE NO.

TOPOGRAPHY

TERRASCRIBE AERIAL MAPPING
42471 ALPHA PLACE, TEMECULA CA, 92592
PHONE: (951) 830–7425
DATE OF PHOTOGRAPHY: SEPTEMBER 2023
NAVD 88

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MMRP NOTES
3	KEY MAP
4–7	BMP SECTIONS AND DETAILS
8–18	ROUGH GRADING PLANS
19–20	GRADING DETAILS
21–29	STORM DRAIN SHEETS
30	HIGHLINE UTILITY REMOVALS
31	LOTS AND ENCUMBERANCES MAP
32–37	PRIVATE IMPROVEMENT PLANS
38	LOOP ROAD IMPROVEMENT PLANS
39	RAMP DETAILS
40	CURB INFORMATION
41	PRIVATE TRAFFIC IMPROVEMENT TITLE SHEET
42–44	PRIVATE SIGNING & STRIPING PLANS
45	PRIVATE RECTANGULAR RAPID FLASHING BEACON PLANS
46–50	PRIVATE STREET LIGHTING PLANS

FEMA INFORMATION

- AS DETERMINED BY GRAPHIC PLOTTING ONLY, THIS SITE IS IN ZONE A99 OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 06073C0751H, AND 06073C0752H REVISED MAY 16, 2012 AND IS IN ZONE A–99, AREA OF SPECIAL FLOOD HAZARD WITHOUT BASE FLOOD ELEVATION.
- HISTORICAL BASE FLOOD ELEVATIONS SHOWN ON THIS PLAN WERE OBTAINED FROM THE HISTORICAL FLOOD INSURANCE RATE MAP PANEL NO. 060703C0751F, AND 06073C0752F, EFFECTIVE DATE JUNE 19, 1997 AND WERE CONVERTED FROM NAGVD29 TO NAVD88.
- PREVIOUS INTERIM GRADING CLOMR–F CASE NO. 19–09–0987C
- CITY PARCEL CLOMR–F CASE NO. 19–09–1148C
- PROJECT CLOMR CASE NO._____

FLOOD AND LANDSLIDE

- THE PRESENT OR FUTURE OWNER/DEVELOPER SHALL INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITIES, CLAIMS ARISING FROM ANY LANDSLIDE ON THIS SITE.
- THE PRESENT OR FUTURE OWNER/DEVELOPER SHALL INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITIES, CLAIMS ARISING FROM ANY FLOODING THAT OCCURS ON THIS SITE, AND ANY FLOODING THAT IS CAUSED BY THIS SITE IMPACTING ADJACENT PROPERTIES.

FIRE NOTE

ALL PRIVATE FIRE SERVICE MAINS ON THIS PLAN ARE FOR REFERENCE ONLY AND WILL BE PER SEPARATE DEFERRED SUBMITTAL TO THE FIRE DEPARTMENT

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF OCEANSIDE. IMPORT AND GRADING TO ESTABLISH GRADING PADS, ROADS, AND BIOFILTRATION BASINS.

LEGAL DESCRIPTION

PARCEL 1 OF PARCEL MAP NO. 7726 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY AS FILE NO. 78–355631 OF OFFICIAL RECORDS, PARCEL A AND B DESCRIBED IN CERTIFICATE OF COMPLIANCE NO. PLA–21–00002, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY AS DOC.NO. 2024–0027758 OF OFFICIAL RECORDS, AND A PORTION OF SECTION 18, TOWNSHIP 12 SOUTH, RANGE 4 WEST, SAN BERNARDINO BASE AND MERIDIAN, ALL IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ALL AS PER GRANT DEED DOCUMENT NO. 2024–0059565 AND A PORTION OF GRANT DEED DOCUMENT NO. 2018–0313851.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 6, EPOCH 2011.00 GRID BEARING BETWEEN CITY OF OCEANSIDE FIRST ORDER G.P.S. STATION NO. 1019 AND FIRST ORDER G.P.S. STATION NO. 2065 PER RECORD OF SURVEY NO. 21787.

BEARING FROM STATION 1019 TO 2065 IS: NORTH 53°19'02" EAST

DISTANCES SHOWN HEREON ARE GROUND LEVEL DISTANCES. THE COMBINED SCALE FACTOR AT 1019 IS 0.99995999. GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR. QUOTED BEARINGS FROM REFERENCE DEEDS/MAPS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

OWNER

JON CORN
O'SIDE PARTNERSHIP, LLC
512 VIA DE LA VALLE, SUITE 208
SOLANA BEACH, CALIFORNIA 92075

COLIN O' BYRNE
OCEANSIDE SURF CLUB, LLC
11705 AIRPORT WAY, SUITE 301
BROOMFIELD, COLORADO 80021

REFERENCE DRAWINGS

SEWER: R–6515, R–6515A
WATER: W–295, W–1734, W–2167
STORM: CALTRANS CONTRACT NO. 11–010384;
SLRR FLOOD CONTROL PROJECT PLANS

EARTHWORK QUANTITIES

GRADED AREA: 70.0 AC
CUT: 56,500 CY
FILL: 280,000 CY
REMEDIAL: 15,000 CY
IMPORT: 223,500 CY

SITE ADDRESS

3460 MISSION AVENUE AND 3436 SAN LUIS REY ROAD, OCEANSIDE, CA

A.P.N.'s

160–270–31, 79, 82
160–280–14, 48–51, 53–55
160–290–58, 60, 63
CITY PARCEL 160–270–77

ENGINEER

BOWMAN
701 B STREET, SUITE 800
SAN DIEGO, CA 92101
(619)235–6471

SOILS ENGINEER

GEOCON, INCORPORATED
6960 FLANDERS DRIVE,
SAN DIEGO, CA 92121
TEL: (619) 818–0215

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF HIRING A LICENSED SURVEYOR THE REPLACEMENT OF ALL SURVEY MONUMENTS DESTROYED BY CONSTRUCTION.

NOTE TO CONTRACTOR:

THE EXISTING DRY UTILITY INFORMATION SHOWN IN THIS PLAN SET WAS PROVIDED TO BOWMAN BY XXX VIA EMAIL ON XX/XX/XX. ACCORDINGLY, SHOULD THERE BE ANY DRY UTILITY QUESTIONS, PLEASE CONTACT THEM DIRECTLY.

LEGEND

EXISTING IMPROVEMENTS

ITEM	SYMBOL
SUBDIVISION BOUNDARY	
CENTERLINE	
RIGHT–OF–WAY	
PARCEL LINE	
EASEMENT	
CONTOUR	40
SPOT ELEVATION	× 40.0
TREE	
STORM DRAIN PIPE	
CLEANOUT	
SEWER MAIN	S
WATER MAIN	W
FORCE MAIN	FM
GAS LINE	GAS
LIMITS OF CONTAMINATED SOIL	
FENCE	

PROPOSED IMPROVEMENTS

ITEM	SYMBOL
CONTOUR	40
SLOPE	
DAYLIGHT LINE	
PAD ELEVATION	PAD=45.8
LIMITS OF DISTURBANCE	
PRIVATE CMU RETAINING WALL	PER SEPARATE PERMIT
PRIVATE BROW DITCH	PER SDRSD D–75
PRIVATE VEGETATED EARTHEN SWALE	
PRIVATE CONCRETE UTILITY ACCESS ROAD	
PRIVATE CLASS II BASE UTILITY ACCESS ROAD	
PRIVATE STORM DRAIN PIPE	PER SDRSD D–60
PRIVATE WING HEADWALL	PER SDRSD D–34
PRIVATE RIPRAP	PER SDRSD D–40
PRIVATE SD CLEANOUT	PER SDRSD D–09
PRIVATE TYPE B INLET	PER SDRSD D–02
PRIVATE TYPE F INLET	PER SDRSD D–07
PRIVATE TYPE I INLET	PER SDRSD D–29
PRIVATE MODIFIED TYPE F INLET X=7', Y=4'	PER SDRSD D–07
PRIVATE MODULAR WETLAND UNIT	
PRIVATE BASIN RISER	
CONTAMINATED SOIL LIMIT	
FEMA 100–YEAR INUNDATION (NAVD 88)	
HISTORICAL NAVD88 BASE FLOOD ELEVATION (BFE)	BFE=XX.X (NAVD88)
MINOR DRAINAGE CHANNEL	PER SDRSD D–70

STORM WATER QUALITY MITIGATION PLAN NOTE

A. ALL POST–CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED STORM WATER QUALITY MITIGATION PLAN (SWQMP).

B. PROVIDE STENCILING OR LABELING OF ALL STORM WATER DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA WITH PROHIBITIVE DUMPING LANGUAGE (E.G. "NO DUMPING – I LIVE DOWNSTREAM") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING, SATISFACTORY TO THE CITY ENGINEER. STENCILING OR LABELING MAY ALSO BE REQUIRED IN SPANISH.

C. THE PROJECT GEOTECHNICAL CONSULTANT SHALL PROVIDE A STAMPED AND SIGNED LETTER TO THE CITY OF OCEANSIDE ENGINEERING DIVISION STATING THAT THE SOIL PLACED WITHIN THE BIORETENTION FACILITIES MEETS THE SPECIFICATIONS CITED IN THE APPROVED SWQMP.

Underground Service Alert

CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

PLANS APPROVED BY FALLBROOK PUBLIC UTILITIES DISTRICT	PLANS APPROVED BY WATER UTILITIES DEPT.	GEOTECHNICAL CONSULTANT APPROVAL CITY OF OCEANSIDE PLANS ARE CHECKED AND FOUND TO COMPLY WITH THE CITY OF OCEANSIDE REQUIREMENTS:
APPROVED BY DATE	WATER UTILITIES DIRECTOR DATE	APPROVED BY DATE

NO.	DESCRIPTION	APP'D	DATE

APPROVED CHANGES:

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID–WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

Bowman
Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517	DATE REGISTRATION EXPIRES 6–30–27	DESIGNED BY:	PM REVIEW:

WDID NO. 9 37C399692 FILE NO.

SHEET 1	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

OCEAN KAMP–OCEANSIDE
TITLE SHEET

APPROVED

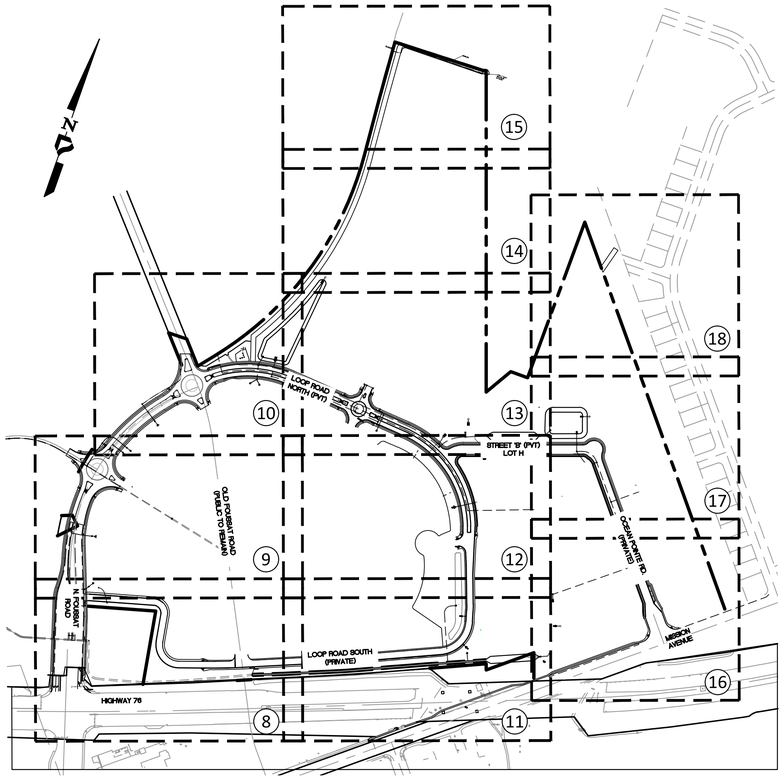
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24–00022

Q:\CA–SAND–PD\Projects\4375.50\Engr\DWG_Plans\Grading Maps\4375.50_GRD 1.dwg, Date Last Saved 6/30/2025 2:34:38 PM, Date Plotted Last 7/3/2025 1:15:27 PM

MITIGATION MONITORING AND REPORTING PROGRAM SUMMARY

MM NO.	MITIGATION MEASURE
	BIOLOGICAL RESOURCES
MM BIO–1	A MONITORING BIOLOGIST (APPROVED BY THE CITY) SHALL (1) ATTEND A PRECONSTRUCTION MEETING; (2) BE PRESENT DURING INITIAL CLEARING AND GRUBBING OF HABITAT; AND (3) BE PRESENT DURING PROJECT CONSTRUCTION WITHIN 500 FEET OF PRESERVE HABITAT TO ENSURE COMPLIANCE WITH ALL CONSERVATION MEASURES. THE MONITORING BIOLOGIST SHALL ENSURE THAT: THE CONTRACTOR AND CONSTRUCTION PERSONNEL ARE EDUCATED ABOUT THE SENSITIVITY OF ADJACENT HABITATS, CONSTRUCTION FENCING IS INSTALLED, SEASONAL RESTRICTIONS ON GRADING ARE FOLLOWED, TRASH IS REMOVED FROM SENSITIVE HABITAT AREAS OR ADJACENT AREAS, VEHICLE FUELING OCCURS OUTSIDE SENSITIVE AREAS, PETS OF PROJECT PERSONNEL ARE NOT BROUGHT TO THE PROJECT SITE, CONSTRUCTION NIGHT LIGHTING IS MINIMIZED TO AVOID IMPACTS TO SENSITIVE HABITATS, AND VIOLATIONS ARE REPORTED AND MITIGATED APPROPRIATELY. THE BIOLOGIST SHALL SUBMIT A LETTER TO THE CITY THAT DOCUMENTS COMPLIANCE WITH MITIGATION MEASURES AT THE CONCLUSION OF CONSTRUCTION.
MM BIO–2	IMPACTS WILL OCCUR TO 0.57 ACRE OF WETLANDS (0.22 ACRE OF POTENTIALLY CORPS/RWQCB JURISDICTION, 0.57 ACRE OF CDFW JURISDICTION). MITIGATION WILL BE PROVIDED AT A 3:1 RATIO IN THE SAN LUIS REY MITIGATION BANK FOR PURCHASE OF 1.71 ACRES. NOTE: WETLAND ACREAGES HAVE BEEN UPDATED TO REFLECT THE CURRENT PERMITTING PROCESS OUTLINED IN BIO–13 BELOW.
MM BIO–5	WHILE THE PROPOSED PLANT LIST FOR THE ON–SITE 100–FOOT–WIDE CORRIDOR CURRENTLY CONSISTS OF NATIVE SPECIES INCLUDING COASTAL SAGE SCRUB CONSTITUENTS THAT ARE COMPATIBLE WITH THE CITY'S RECOMMENDED PLANT GUIDELINES, THE FINAL PROJECT COMPLETION SPECIES SELECTION WILL BE SUBJECT TO APPROVAL BY THE FIRE MARSHAL AS PART OF LANDSCAPE WORK DRAWINGS.
MM BIO–6	THE CONSERVATION EASEMENT OVER THE ONSITE 100–FOOT CORRIDOR WILL BE PROVIDED FOR REVIEW AND APPROVAL BY THE WILDLIFE AGENCIES AS A CONDITION OF PROJECT APPROVAL.
MM BIO–7	LANDSCAPING WITHIN THE DEVELOPMENT AREA SHALL AVOID THE USE OF INVASIVE NON–NATIVE PLANTS, DETAILED IN TABLE 5–5 OF THE DRAFT HCP AND/OR THE CALIFORNIA INVASIVE PLANT INVENTORY.
MM BIO–8	NO GRADING, GRUBBING, OR CLEARING SHALL BE ALLOWED DURING THE BREEDING SEASON FOR LEAST BELL'S VIREO (MARCH 15 TO SEPTEMBER 15) OR RAPTORS (JANUARY 31 TO JULY 31) UNLESS PRECONSTRUCTION SURVEYS ARE CONDUCTED TO DETERMINE IF THESE SPECIES OCCUR WITHIN AREAS THAT WOULD BE IMPACTED BY NOISE LEVELS GREATER THAN 60 DB L_{EQ} IF THESE SPECIES ARE NESTING WITHIN THIS AREA AT THE TIME, THESE CONSTRUCTION ACTIVITIES SHALL EITHER (1) BE POSTPONED UNTIL ALL NESTING BREEDING BEHAVIOR HAS CEASED; OR (2) A TEMPORARY NOISE BARRIER OR BERM IS CONSTRUCTED AT THE EDGE OF THE DEVELOPMENT FOOTPRINT TO ENSURE THAT NOISE LEVELS ARE REDUCED TO BELOW 60 DB L_{EQ}
MM BIO–9	TO ENSURE COMPLIANCE WITH THE MIGRATORY BIRD TREATY ACT AND THE CALIFORNIA FISH AND GAME CODE, CLEARING OF ANY VEGETATION SHALL BE DONE OUTSIDE OF THE AVIAN BREEDING SEASON (RAPTOR NESTING SEASON IS JANUARY 15 THROUGH SEPTEMBER 15; AND MIGRATORY BIRD NESTING SEASON IS FEBRUARY 15 THROUGH AUGUST 31). UNLESS PRE–CONSTRUCTION SURVEYS ARE CONDUCTED TO DETERMINE THAT NO NESTING BIRDS ARE PRESENT IMMEDIATELY TO CLEARING NOR ARE IN AREAS WHICH COULD BE IMPACTED BY NOISE. SHOULD VEGETATION REMOVAL TAKE PLACE DURING THIS PERIOD, A QUALIFIED BIOLOGIST SHALL CONDUCT A NESTING BIRD SURVEY NO MORE THAN 3 DAYS PRIOR TO CONSTRUCTION ACTIVITIES TO ENSURE THAT BIRDS ARE NOT ENGAGED IN ACTIVE NESTING WITHIN 100 FEET OF THE PROJECT SITE. IF NESTING BIRDS ARE DISCOVERED DURING PRECONSTRUCTION SURVEYS, THEN AVOIDANCE AND MINIMIZATION MEASURES SHALL BE UNDERTAKEN IN CONSULTATION WITH THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (CDFW) AND PRIOR TO ISSUANCE OF ANY GRADING OR CONSTRUCTION PERMITS. MEASURES SHALL INCLUDE ESTABLISHMENT OF AN AVOIDANCE BUFFER UNTIL NESTING HAS BEEN COMPLETED. THE WIDTH OF THE BUFFER WILL BE DETERMINED BY THE PROJECT BIOLOGIST. TYPICALLY, THIS IS A MINIMUM OF 100 FEET FROM THE NEST IN ALL DIRECTIONS (300 FEET IS TYPICALLY RECOMMENDED BY CDFW FOR ANY STATE OR FEDERALLY LISTED PASSERINE SPECIES AND 500 FEET FOR RAPTORS), UNTIL THE JUVENILES HAVE FLEDGED AND THERE HAS BEEN NO EVIDENCE OF A SECOND ATTEMPT AT NESTING. THE MONITORING BIOLOGIST WILL MONITOR THE NEST(S) DURING CONSTRUCTION AND DOCUMENT ANY FINDINGS. A REPORT WILL BE MADE AVAILABLE TO CDFW UPON REQUEST.
MM BIO–10	TO ENSURE THAT CONSTRUCTION ACTIVITY REMAINS WITHIN THE DEFINED LIMITS OF WORK, ALL CONSTRUCTION AND STAGING AREAS SHALL BE GRADING AND FENCED WITH ORANGE CONSTRUCTION FENCING AND SILT FENCING OR FIBER ROLLS. DELINEATED AREAS SHALL BE REGULARLY INSPECTED BY THE PROJECT BIOLOGIST PER THE CONSTRUCTION MONITORING SCHEDULE.
MM BIO–12	LIGHTING WITHIN THE PROJECT AREA ADJACENT TO THE SAN LUIS REY RIVER SHALL BE SELECTIVELY PLACED, DIRECTED AWAY FROM THE RIVER, AND OF THE LOWEST ILLUMINATION POSSIBLE FOR HUMAN SAFETY.
MM BIO–13	MITIGATION FOR THE LOSS OF JURISDICTIONAL WATERS WOULD BE CONDITIONS OF THE PERMITS ISSUED BY THE USACE, RWQCB AND CDFW. THE APPLICANT WILL SUBMIT THE REQUIRED JURISDICTIONAL DELINEATION TO USACE AS PART OF CLEAN WATER ACT PERMITTING. SAID PERMITS WILL BE OBTAINED PRIOR TO GRADING IN THESE AREAS.
	CULTURAL RESOURCES
MM CUL–1	THE DEVELOPMENT OF A PRE–EXCAVATION AGREEMENT BETWEEN THE APPLICANT AND THE APPROPRIATE LUISEÑO TRIBE(S) OR OTHER NATIVE AMERICANS AS DETERMINED BY THE CITY.
MM CUL–2	THE PRESENCE OF A QUALIFIED ARCHAEOLOGIST AND INVITATION TO A NATIVE AMERICAN MONITOR AT THE PRE–CONSTRUCTION MEETING.
MM CUL–3	A NATIVE AMERICAN MONITOR TO BE INVITED AND AN ARCHAEOLOGICAL MONITOR WILL BE ON–SITE DURING INITIAL GRADING, TRENCHING, OR OTHER GROUND–DISTURBING ACTIVITIES OF EXISTING SOILS. MONITORING WILL NOT BE REQUIRED DURING THE SUBSEQUENT SOIL IMPORT AND GRADING OPERATIONS AS IT WILL NOT DISTURB NATIVE SOILS.
MM CUL–4	THE ANALYSIS OF ANY CULTURAL MATERIAL FOUND.
MM CUL–5	THE PREPARATION OF A REPORT DETAILING THE METHODS AND RESULTS OF THE MONITORING PROGRAM.
MM CUL–6	THE CURATION OR REPATRIATION OF THE CULTURAL MATERIAL COLLECTED.
	GEOLOGY AND SOILS
MM GEO–1	LOOSE SURFICIAL SOIL IN THE UPPER 1 TO 2 FEET WOULD BE OVER–EXCAVATED PRIOR TO PLACEMENT OF FILL OR IN BUILDING PAD LOCATIONS. THE UPPER 5 TO 10 FEET OF SOIL, WHICH IS LOOSE TO MEDIUM DENSE, WOULD BE OVER EXCAVATED IN DEEP FILL AREAS, AND COMPACTED AS ENGINEERED FILL.
MM GEO–2	TO MITIGATE POTENTIAL DIFFERENTIAL SETTLEMENT OF STRUCTURES, TWO OPTIONS MAY BE USED. ONE IS TO PERFORM CONVENTIONAL GRADING WITH REDUCED FOUNDATION BEARING CAPACITIES, AND THE OTHER WOULD BE TO IMPROVE THE SUBSURFACE WITH DEEP DYNAMIC COMPACTION WITH HIGHER BEARING CAPACITIES FOR FOUNDATIONS. ON–SITE SOIL GENERATED FROM CUT AREAS FOLLOWING CLEARING AND GRUBBING THAT IS FREE OF EXCESS ORGANIC MATERIAL (3 PERCENT OR LESS BY WEIGHT) OR DEBRIS MAY BE SUITABLE FOR USE AS STRUCTURAL FILL. IMPORTED SELECT FILL SHOULD BE NON–EXPANSIVE, HAVING A PLASTICITY INDEX OF 12 OR LESS, AN R–VALUE GREATER THAN 40, AND ENOUGH FINES SO THE SOIL CAN BIND TOGETHER. IMPORTED SOIL SHOULD BE FREE OF ORGANIC MATERIALS AND DEBRIS, AND NOT CONTAIN ROCKS OR LUMPS GREATER THAN 3 INCHES IN MAXIMUM SIZE. IMPORTED SELECT FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY ON–SITE.
MM GEO–3	COMPACTION AND DESIGN REQUIREMENTS SHALL BE CONSISTENT WITH THOSE SPECIFIED IN THE GEOTECHNICAL REPORT (90 TO 95 PERCENT RELATIVE COMPACTION WITH 1 TO 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT), AND SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE RECOMMENDATIONS AND THE GRADING AND EARTHWORK SPECIFICATIONS.
	NOISE
MM NOI–1	NOISE LEVELS AT PRIVATE RESIDENTIAL EXTERIOR USE AREAS SHALL BE REDUCED TO 65 COMMUNITY NOISE EXPOSURE LEVEL (CNEL) OR BELOW. ONCE SPECIFIC BUILDING PLAN INFORMATION IS AVAILABLE, ADDITIONAL EXTERIOR NOISE ANALYSIS SHALL BE CONDUCTED FOR PROPOSED RESIDENTIAL EXTERIOR USE AREAS THAT ARE EXPECTED TO BE EXPOSED TO A NOISE LEVEL OF 65 CNEL OR GREATER. RESIDENCES REQUIRING ANALYSIS ARE THOSE ALONG THE SOUTHERN BOUNDARY OF THE PROJECT SITE WEST OF THE INTERSECTION OF MISSION AVENUE AND OCEAN POINTE DRIVE. THE ANALYSIS SHALL DETERMINE THE SPECIFIC BARRIER HEIGHTS AND LOCATIONS REQUIRED TO REDUCE EXTERIOR USE AREA NOISE LEVELS TO BELOW 65 CNEL. CITY REVIEW AND APPROVAL OF THE PROPOSED EXTERIOR USE AREA NOISE COMPLIANCE EVALUATION AS WELL AS APPLICABLE NOISE ATTENUATION MEASURES SHALL BE COMPLETED PRIOR TO ISSUANCE OF BUILDING PERMIT. THE NOISE BARRIERS MUST BE SOLID. THEY CAN BE CONSTRUCTED OF MASONRY, WOOD, PLASTIC, FIBERGLASS, STEEL, OR A COMBINATION OF THOSE MATERIALS, AS LONG AS THERE ARE NO CRACKS OR GAPS, THROUGH OR BELOW THE WALLS. THE WALLS CAN BE MADE OF COMPOSITE WOOD WITH A SOLID LOWER SECTION AND A CLEAR GLASS OR PLASTIC UPPER SECTION TO MAINTAIN VIEWS. ANY SEAMS OR CRACKS MUST BE FILLED OR CAULKED. IF WOOD IS USED, IT CAN BE TONGUE AND GROOVE AND MUST BE AT LEAST ONE INCH TOTAL THICKNESS OR HAVE A DENSITY OF AT LEAST 3.5 POUNDS PER SQUARE FOOT. WHERE ARCHITECTURAL OR AESTHETIC FACTORS ALLOW, GLASS OR CLEAR PLASTIC 3/8 OF AN INCH THICK OR THICKER MAY BE USED ON THE UPPER PORTION, IF IT IS DESIRABLE TO PRESERVE A VIEW. SHEET METAL OF 18–GAUGE (MINIMUM) MAY BE USED IF IT MEETS THE OTHER CRITERIA AND IS PROPERLY SUPPORTED AND STIFFENED SO THAT IT DOES NOT RATTLE OR CREATE NOISE ITSELF FROM VIBRATION OR WIND. ANY DOOR(S) OR GATE(S) MUST BE DESIGNED WITH OVERLAPPING CLOSURES ON THE BOTTOM AND SIDES AND MEET THE MINIMUM SPECIFICATIONS OF THE WALL MATERIALS DESCRIBED ABOVE. THE GATE(S) MAY BE OF ONE–INCH THICK OR BETTER WOOD, SOLID–SHEET METAL OF AT LEAST 18–GAUGE METAL, OR AN EXTERIOR–GRADE SOLID–CORE STEEL DOOR WITH PREFABRICATED DOORJAMBS.
MM NOI–2	INTERIOR NOISE LEVELS FOR THE PROJECT'S PROPOSED RESIDENCES SHALL BE DEMONSTRATED TO NOT EXCEED 45 CNEL. ONCE SPECIFIC BUILDING PLAN INFORMATION IS AVAILABLE, ADDITIONAL EXTERIOR–TO–INTERIOR NOISE ANALYSIS SHALL BE CONDUCTED FOR ALL PROPOSED RESIDENCES THAT ARE EXPOSED TO AN EXTERIOR NOISE LEVEL OF 60 CNEL OR GREATER. RESIDENCES REQUIRING ANALYSIS ARE THOSE ALONG THE SOUTHERN BOUNDARY OF THE PROJECT SITE ALONG MISSION AVENUE. THE INFORMATION IN THE ANALYSIS SHALL INCLUDE WALL HEIGHTS AND LENGTHS, ROOM VOLUMES, WINDOW AND DOOR TABLES TYPICAL FOR A BUILDING PLAN, AS WELL AS INFORMATION ON ANY OTHER OPENINGS IN THE BUILDING SHELL. WITH THIS SPECIFIC BUILDING PLAN INFORMATION, THE ANALYSIS SHALL DETERMINE THE PREDICTED INTERIOR NOISE LEVELS AT THE PLANNED ON–SITE RESIDENCES. IF PREDICTED NOISE LEVELS ARE FOUND TO BE IN EXCESS OF 45 CNEL, THE REPORT SHALL IDENTIFY ARCHITECTURAL MATERIALS OR TECHNIQUES THAT COULD BE INCLUDED TO REDUCE NOISE LEVELS TO 45 CNEL IN HABITABLE ROOMS. CITY REVIEW AND APPROVAL OF THE PROPOSED EXTERIOR–TO–INTERIOR NOISE ANALYSIS AS WELL AS APPLICABLE NOISE ATTENUATION MEASURES SHALL BE COMPLETED PRIOR TO ISSUANCE OF BUILDING PERMIT. AIR CONDITIONING OR MECHANICAL VENTILATION SYSTEMS SHALL BE INSTALLED TO ALLOW WINDOWS AND DOORS TO REMAIN CLOSED FOR EXTENDED INTERVALS OF TIME SO THAT ACCEPTABLE INTERIOR NOISE LEVELS CAN BE MAINTAINED. THE MECHANICAL VENTILATION SYSTEM WOULD MEET THE CRITERIA OF THE INTERNATIONAL BUILDING CODE (IBC; CHAPTER 12, SECTION 1203.3 OF THE 2001 CALIFORNIA BUILDING CODE [CBC]).
	PALEONTOLOGICAL RESOURCES
MM PAL–1	PRIOR TO ISSUANCE OF GRADING PERMITS, THE APPLICANT SHALL CONFIRM TO THE CITY THAT A QUALIFIED PALEONTOLOGIST HAS BEEN RETAINED TO CARRY OUT THE MITIGATION PROGRAM. (A QUALIFIED PALEONTOLOGIST IS DEFINED AS AN INDIVIDUAL WITH AN M.S. OR PH.D. IN PALEONTOLOGY OR GEOLOGY WHO IS FAMILIAR WITH PALEONTOLOGICAL PROCEDURES AND TECHNIQUES.) THE PALEONTOLOGIST SHALL ATTEND PRE–GRADE MEETINGS TO CONSULT WITH GRADING AND EXCAVATION CONTRACTORS.
MM PAL–2	A PALEONTOLOGICAL MONITOR SHALL BE ON SITE DURING GRADING OPERATIONS TO EVALUATE THE PRESENCE OF FOSSILS WITHIN PREVIOUSLY UNDISTURBED SEDIMENTS OF THE SANTIAGO FORMATION TO INSPECT CUTS FOR CONTAINED FOSSILS. (A PALEONTOLOGICAL MONITOR IS DEFINED AS AN INDIVIDUAL WHO HAS EXPERIENCE IN THE COLLECTION AND SALVAGE OF FOSSIL MATERIALS.) THE PALEONTOLOGICAL MONITOR SHALL WORK UNDER THE DIRECTION OF A QUALIFIED PALEONTOLOGIST.
MM PAL–3	WHEN FOSSILS ARE DISCOVERED, THE PALEONTOLOGIST (OR PALEONTOLOGICAL MONITOR) SHALL RECOVER THEM. IN MOST CASES, THIS FOSSIL SALVAGE CAN BE COMPLETED IN A SHORT PERIOD OF TIME. SOME FOSSIL SPECIMENS (SUCH AS A COMPLETE WHALE SKELETON) MAY REQUIRE AN EXTENDED SALVAGE TIME. IN THESE INSTANCES, THE PALEONTOLOGIST (OR PALEONTOLOGICAL MONITOR) SHALL BE ALLOWED TO TEMPORARILY DIRECT, DIVERT, OR HALT GRADING. TO ALLOW RECOVERY OF SMALL FOSSIL REMAINS SUCH AS ISOLATED MAMMAL TEETH, IT MAY BE NECESSARY IN CERTAIN INSTANCES TO SET UP A SCREEN–WASHING OPERATION ON THE SITE.
MM PAL–4	PREPARED FOSSILS ALONG WITH COPIES OF ALL PERTINENT FIELD NOTES, PHOTOS, AND MAPS SHALL BE DEPOSITED (WITH THE APPLICANT'S PERMISSION) IN A SCIENTIFIC INSTITUTION WITH PALEONTOLOGICAL COLLECTION SUCH AS THE SAN DIEGO NATURAL HISTORY MUSEUM. A FINAL SUMMARY REPORT SHALL BE COMPLETED AND DISTRIBUTED TO THE CITY AND OTHER INTERESTED AGENCIES WHICH OUTLINES THE RESULTS OF THE MITIGATION PROGRAM. THIS REPORT SHALL INCLUDE DISCUSSIONS OF THE METHODS USED, STRATIGRAPHY EXPOSED, FOSSILS COLLECTED, AND SIGNIFICANCE OF RECOVERED FOSSILS.
	TRAFFIC AND TRANSPORTATION
MM TRA–1	IMPLEMENT THE GUIDELINES OUTLINED IN CALIFORNIA AIR POLLUTION CONTROL OFFICERS ASSOCIATION'S (CAPCOA) MEASURE LUT–9: IMPROVE DESIGN OF DEVELOPMENT, WHICH IS APPLICABLE TO RESIDENTIAL PROJECTS IN AN URBAN OR SUBURBAN AREA. THE PROPOSED PROJECT SHALL IMPROVE THE PROPOSED DESIGN ELEMENTS TO ENHANCE WALKABILITY AND CONNECTIVITY: IMPROVED STREET NETWORK CHARACTERISTICS WITHIN A NEIGHBORHOOD INCLUDE STREET ACCESSIBILITY, USUALLY MEASURED IN TERMS OF AVERAGE BLOCK SIZE, PROPORTION OF FOUR–WAY INTERSECTIONS, OR NUMBER OF INTERSECTIONS PER SQUARE MILE. DESIGN IS ALSO MEASURED IN TERMS OF SIDEWALK COVERAGE, BUILDING SETBACKS, STREET WIDTHS, PEDESTRIAN CROSSINGS, PRESENCE OF STREET TREES, AND A HOST OF OTHER PHYSICAL VARIABLES.
	AESTHETICS
PDF AES–1	THE PROJECT SHALL INCORPORATE A SERIES OF PROJECT DESIGN FEATURES TO ASSURE COMPATIBILITY WITH THE SURROUNDING EXISTING LAND USES, WHICH ARE SUMMARIZED AS FOLLOWS: * PROVIDE A VARIETY OF ARCHITECTURAL STYLES AND BUILDING CONFIGURATIONS, SUCH AS COURTS AND CLUSTERS, TO AVOID A MONOTONOUS APPEARANCE. * SHOW SENSITIVITY TO ADJACENT PROPERTIES, OPEN SPACE, AND COMMUNITY AMENITY AREAS WITH APPROPRIATE SETBACKS AND ORIENTATION OF BUILDINGS AND FACADES. * PROVIDE FOR A VARIED STREETSCAPE AND COMMUNITY APPEARANCE. * BLEND COMPATIBLE ARCHITECTURAL STYLES AND UTILIZE A DISTINCTIVE PALETTE OF COLORS AND MATERIALS RESPONSIVE TO THE OVERALL PROPOSED PROJECT BRANDING WITHIN EACH COMMERCIAL AREA AND RESIDENTIAL NEIGHBORHOOD. * PROVIDE VARIED BUILDING SETBACKS ALONG THE STREET AND/OR ARTICULATE EACH BUILDING. * COMMERCIAL STRUCTURES WOULD BE LIMITED TO 50 FEET TALL, AND THE VARIOUS RESIDENTIAL COMPONENTS (TOWNHOMES, APARTMENTS, CONDOMINIUMS, AND SENIOR HOUSING) WOULD RANGE FROM TWO TO FOUR STORIES. * ORIENT BUILDINGS TO INCORPORATE A RELATIONSHIP BETWEEN INDOOR AND OUTDOOR SPACE. * THE COMMERCIAL STRUCTURE'S WALLS SHALL LARGELY BE CONSTRUCTED WITH PLASTER OR PRE–CAST CONCRETE AND WOULD REDUCE LARGE EXPANSES OF GLARE PRODUCING MATERIALS.
PDF AES–2	THE PROJECT WILL INCORPORATE THE CITY OF OCEANSIDE LIGHT POLLUTION REGULATIONS (CHAPTER 39) WITHIN THE CITY'S CODE OF ORDINANCES. THE LIGHT POLLUTION REGULATIONS REQUIRE THAT ALL LIGHTING MUST USE SHIELDED LUMINARIES WITH GLARE CONTROL TO PREVENT LIGHT SPILLOVER ONTO ADJACENT AREAS.
	AIR QUALITY
PDF AIR–1	FOR DUST CONTROL, THE PROJECT SHALL INCLUDE THE FOLLOWING: * A MINIMUM OF TWO APPLICATIONS OF WATER SHALL BE APPLIED DURING GRADING BETWEEN DOZER/GRADER PASSES. * PAVING, CHIP SEALING, OR CHEMICAL STABILIZATION OF INTERNAL ROADWAYS SHALL BE APPLIED AFTER COMPLETION OF GRADING. * GRADING SHALL BE TERMINATED IF WINDS EXCEED 25 MILES PER HOUR (MPH). * ALL EXPOSED SURFACES SHALL MAINTAIN A MINIMUM SOIL MOISTURE OF 12 PERCENT. * DIRT STORAGE PILES SHALL BE STABILIZED BY CHEMICAL BINDERS, TARPS, FENCING, OR OTHER EROSION CONTROL. * VEHICLE SPEEDS SHALL BE LIMITED TO 15 MPH ON UNPAVED ROADS.
	BIOLOGICAL RESOURCES
PDF BIO–1	THE PROJECT SHALL PRESERVE APPROXIMATELY 4 ACRES (THE "100FT CORRIDOR", SEE MM BIO–5, MM BIO–6 FOR DETAILS) OF BIOLOGICAL OPEN SPACE ALONG THE EASTERN PROPERTY BOUNDARY TO CONSERVE HABITAT FOR SENSITIVE SPECIES SUCH AS THE COASTAL CALIFORNIA GNATCATCHER. THIS OPEN SPACE WOULD SERVE AS A "STEPPING STONE" CORRIDOR THAT WOULD BE RESTORED TO SERVE AS A FUNCTIONING WILDLIFE MOVEMENT CORRIDOR AND LINKAGE FOR SENSITIVE AVIAN SPECIES.
PDF BIO–2	THE PROJECT SHALL INCORPORATE APPLICABLE CITY OF SAN FRANCISCO STANDARDS FOR BIRD–SAFE BUILDINGS TO REDUCE THE POTENTIAL FOR AVIAN COLLISIONS. PROOF OF COMPLIANCE WITH THE BUILDING FAÇADE, GLAZING, AND LIGHTING CONDITIONS REQUIRED TO ACHIEVE A "BIRD SAFE BUILDING" CONSISTENT WITH THE BIRD–SAFE BUILDING CHECKLIST SHALL BE SHOWN.
	GEOLOGY AND SOILS
PDF GEO–1	CONFORMANCE WITH THE CALIFORNIA BUILDING CODE DESIGN REQUIREMENTS AND OTHER APPLICABLE CITY ORDINANCES AND STANDARDS SHALL REDUCE THE EFFECTS OF SEISMIC GROUND SHAKING.
	GREENHOUSE GAS EMISSIONS
PDF GHG–1	CALIFORNIA REGULATIONS (13 CALIFORNIA CODE OF REGULATIONS [CCR] 2449(D)(3), 2485) LIMIT IDLING FROM BOTH ON–ROAD AND OFF–ROAD DIESEL–POWERED EQUIPMENT AND ARE ENFORCED BY CARB. CONSTRUCTION OF THE PROJECT SHALL INCLUDE THE FOLLOWING CONSTRUCTION PRACTICE REQUIREMENTS THAT STRIVE TO REDUCE DIESEL OR GASOLINE USE BEYOND TYPICAL DEMAND: * WHEN MORE THAN ONE PIECE OF CONSTRUCTION EQUIPMENT IS AVAILABLE TO COMPLETE A TASK, THE CONTRACTOR SHALL USE THE MOST FUEL–EFFICIENT EQUIPMENT. * THE NEWEST OR MOST FUEL–EFFICIENT EQUIPMENT MODELS SHALL BE SELECTED FROM THE CONTRACTOR FLEET FOR USE. * WORKERS SHALL BE ENCOURAGED TO CARPOOL OR USE PUBLIC TRANSIT TO ACCESS THE PROJECT SITE DURING CONSTRUCTION. THE CONSTRUCTION CONTRACTOR SHALL FACILITATE CARPOOLING BY PROVIDING MEANS TO ORGANIZE CARPOOLS OR REQUEST TRANSIT CENTER PICKUPS. * WHEN HAUL TRUCKS ARE AVAILABLE WITH A HAUL CAPACITY LARGER THAN 15 CUBIC YARDS BUT A FUEL EFFICIENCY SIMILAR TO A 15–CUBIC–YARD CAPACITY TRUCK, THE LARGER CAPACITY TRUCKS SHALL BE USED TO REDUCE TOTAL TRIPS.
PDF GHG–2	THE CITY CAP REQUIRES THAT PROJECTS LOCATED WITHIN A SMART GROWTH OPPORTUNITY AREA (SGOA) DEVELOP USES CONSISTENT WITH THE LAND USE DESIGNATION (COMMERCIAL) AND INCLUDE ELEMENTS CONSISTENT WITH THE CHARACTER OF THE SGOA TYPE. CONSISTENT WITH CAP, THE PROJECT SHALL INCORPORATE: * PROVIDING CONNECTION(S) FOR RECYCLED WATER INTEGRATION INTO THE CITY'S RECYCLED WATER NETWORK WHEN AVAILABLE (THEREBY TRANSFERRING PROJECT GRAY WATER INTO THE CITY TREATMENT SYSTEM AND MINIMIZING ON–SITE FUTURE USE OF POTABLE WATER BY ALLOWING RECEIPT OF RECYCLED RATHER THAN POTABLE WATER FOR IRRIGATION, ETC.). * OFFSETTING OF 50 PERCENT OF PROJECT FORECASTED ENERGY DEMAND (A MINIMUM OF 5,000 KW) THROUGH PHOTOVOLTAIC PANELS OR OTHER RENEWABLE SOURCES. * IMPLEMENTATION OF A TRANSPORTATION DEMAND MANAGEMENT STRATEGY. * PROVIDING PREFERENTIAL PARKING SPACES (12 PERCENT OF THE PARKING SPACES) FOR CLEAN AIR VEHICLES, SIX PERCENT OF PROJECT PARKING SPACES PRE–WIRED FOR ELECTRIC CHARGING, WITH 50 PERCENT OF THOSE SPACES EQUIPPED WITH OPERABLE CHARGING STATIONS. * SHADE TREES AND PLANTING AND IRRIGATION INFRASTRUCTURE THAT MAXIMIZE ENERGY AND WATER CONSERVATION.
PDF GHG–3	THE PROJECT SHALL MINIMIZE USE OF GAS AND ELECTRICITY THROUGH: * LIMITING USE OF NATURAL GAS TO FOOD AND BEVERAGE BUILDINGS, FITNESS CENTER AND OVERHEAD GAS–FIRED HEATERS. * USE OF VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS FOR SPACE COOLING AND HEATING RATHER THAN A CENTRAL PLANT (LOWERING CO2 EMISSIONS). * USE OF INSTANTANEOUS ELECTRIC WATER HEATERS FOR DOMESTIC HOT WATER. * PLACEMENT OF PHOTOVOLTAIC (PV) PANELS ON CARPORTS AS WELL AS RETAIL AREAS (FITNESS CENTER, CONFERENCE CENTER AND OFFICE BUILDINGS) WITH PV SUBSTATIONS AND BATTERY STORAGE BANKS LOCATED THROUGHOUT THE SITE. * USE OF HIGH COEFFICIENT OF PERFORMANCE (COP) HEAT PUMP(S), OPAQUE THERMAL POOL COVER(S), AND INTEGRATION OF A SOLAR THERMAL SYSTEM FOR HEATING FOR THE LAZY RIVER, LAP POOL AND CLIMBING WALL POOL. * RECOVERY OF HEAT REJECTION FROM CASITAS HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEMS FOR LAZY RIVER. * USE OF LIGHT EMITTING DIODE (LED) LIGHT FIXTURES IN THE PARKING LOTS (BOTH ON POLES AND UNDER CARPORT STRUCTURES) FOR VISIBILITY AND SAFETY LIGHTING.
PDF GHG–4	PRIOR TO OPERATION, SUSTAINABLE ELEMENTS SHALL INCLUDE INCORPORATION OF RECYCLED MATERIALS DURING CONSTRUCTION, AS FEASIBLE, AND TRANSPORT OF UNUSED MATERIALS THAT CAN BE RECYCLED TO APPROPRIATE FACILITIES. THE SUITE OF SUSTAINABLE DESIGN ELEMENTS DURING OPERATION INCLUDES DROUGHT TOLERANT LANDSCAPING, RELIANCE ON SOLAR ENERGY, PRE–PLANNING TO ALLOW FOR USE OF RECLAIMED WATER WHEN AVAILABLE, USE OF LOW FLOW LAVATORIES, INFRASTRUCTURE REQUIRED FOR ELECTRIC CAR CHARGING, RECYCLING.
	HAZARDS AND HAZARDOUS MATERIALS
PDF HAZ–1	THE PROJECT SHALL BE REQUIRED TO COMPLY WITH THE CITY CODE OF ORDINANCES CHAPTER 11 (FIRE PROTECTION), WHICH PROVIDES REGULATIONS FOR FIRE PREVENTION MEASURES INCLUDING FIRE SPRINKLERS AND LANDSCAPE RESTRICTIONS.
	HYDROLOGY AND WATER QUALITY
PDF HYD–1	A STORMWATER QUALITY MANAGEMENT PLAN (SWQMP) SHALL BE IMPLEMENTED DURING CONSTRUCTION TO REDUCE STORMWATER RUNOFF TO RECEIVING WATERS DURING CONSTRUCTION ACTIVITIES. PROVISIONS WITHIN THE SWQMP INCLUDE IMPERVIOUS SURFACES SUCH AS PARKING LOTS, SIDEWALKS, PATIOS, ROOF TOP DRAINS, RAIN GUTTERS AND OTHER IMPERVIOUS SURFACES ARE DESIGNED TO DRAIN TO LANDSCAPING, VEGETATED BUFFER STRIPS, OR VEGETATED SWALES WHERE PRACTICABLE. IN AREAS WHERE RUNOFF COULD NOT BE DESIGNED TO ENTER VEGETATED SWALES, FILTRATION IS PROPOSED AT STORM DRAIN INLETS.
PDF HYD–2	THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS FOR STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE PROJECT WILL IMPLEMENT STANDARD BMPS IDENTIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO REDUCE POTENTIAL IMPACTS.
	LAND USE AND PLANNING
PDF LU–1	THE PROJECT WOULD BE REVIEWED BY THE PLANNING COMMISSION TO ENSURE THAT ALL CITY OF OCEANSIDE–REQUIRED DESIGN PARAMETERS ARE MET. DESIGN PARAMETERS INCLUDE STREET WIDTHS, ACCESS IMPROVEMENTS, LANDSCAPE STANDARDS, STREETLIGHTS, LIGHTING REQUIREMENTS, ARCHITECTURAL DESIGN, ETC.
PDF LU–2	THE PROJECT WOULD BE REQUIRED TO OBTAIN DESIGN REVIEW APPROVAL BY THE CITY OF OCEANSIDE AND IS SUBJECT TO THE CITY ZONING STANDARDS THAT REGULATE BUILDING DESIGN, MASS, BULK, HEIGHT, ETC.
	NOISE
PDF NOI–1	THE PROJECT SHALL BE REQUIRED TO COMPLY WITH THE CITY OF OCEANSIDE CODE OF ORDINANCES CHAPTER 38 (NOISE CONTROL).
PDF NOI–2	IN ACCORDANCE WITH THE CITY'S NOISE ORDINANCE, CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO DAYTIME HOURS OF 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY OR FROM 8:00 A.M. TO 4:30 P.M. ON SATURDAYS.
	PUBLIC SERVICES
PDF PS–1	ACCORDING TO THE OCEANSIDE CODE OF ORDINANCES CHAPT

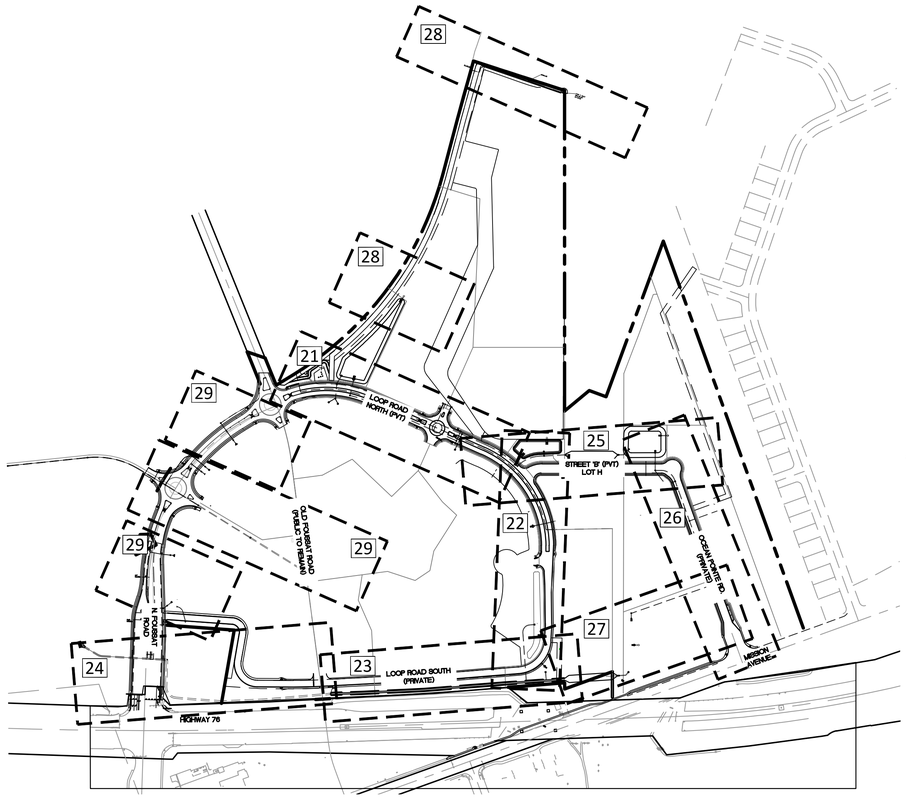


GRADING KEY MAP

1" = 300'

SHEET LAYOUT

GRADING PLAN SHEET NUMBER

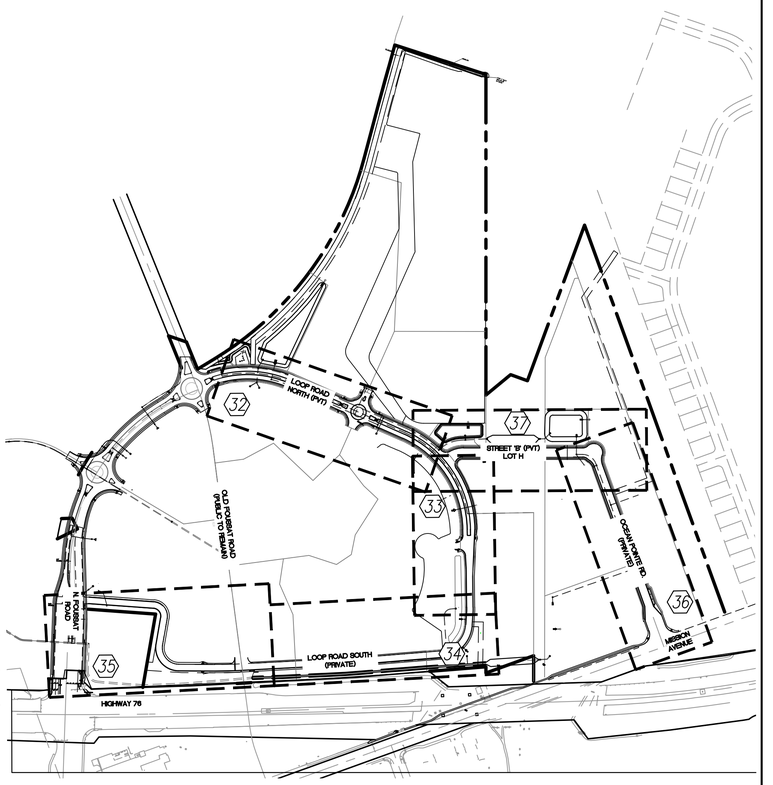


STORM DRAIN KEY MAP

1" = 300'

SHEET LAYOUT

STORM DRAIN IMPROVEMENTS SHEET NUMBER



IMPROVEMENT KEY MAP

1" = 300'

SHEET LAYOUT

IMPROVEMENT PLAN SHEET NUMBER

TRANSPORTATION AND TRAFFIC

PDF TRA-1	THE PROJECT SHALL INCORPORATE SEVERAL FEATURES TO AIDE WITH TRAFFIC AND TRANSPORTATION FLOW WITHIN THE PROJECT AND THE SURROUNDING AREA: * INCLUDE LANDSCAPING AND PROVIDE SPACES AND PEDESTRIAN AMENITIES FOR SOCIAL INTERACTION WITHIN INTERNAL STREETS SUCH AS SMALL GATHERING AREAS, MAILBOX CLUSTERS, BENCHES AND SEATING, WATER FEATURES, AND SHADED AREAS. * PROVIDE TRAFFIC CALMING MEASURES SUCH AS NARROWER ROADWAYS, ON-STREET PARKING, BUMP-OUTS, AND SPEEDBUMPS ALONG INTERNAL STREETS. * DESIGN INTERNAL STREETS WITH SIDEWALKS ALONG A MINIMUM OF ONE SIDE TO PROMOTE PEDESTRIAN ACTIVITY WITHIN THE DEVELOPMENT. * PROVIDE ENHANCED PEDESTRIAN CIRCULATION WITH ACCESS AND CONNECTIONS TO INTERNAL WALKWAYS, PASEOS, AND OPEN SPACE SYSTEMS. * CREATE FOUR MOBILITY HUBS (PLACES WHERE VARIOUS TRAVEL OPTIONS CONVERGE).
PDF TRA-2	PROJECT FEATURES AND CONDITIONS OF APPROVAL ARE AS FOLLOWS, WITH IMPLEMENTATION REQUIRED AT 50 PERCENT OCCUPANCY. THESE STRATEGIES SHALL FURTHER REDUCE THE NUMBER OF AUTOMOBILE TRIPS GENERATED BY RESIDENTS OF THE PROJECT AND THE DISTANCE THAT THE RESIDENTS DRIVE: * PROVIDE RIDE SHARE COORDINATION SERVICES THROUGH THE PROJECT'S HOMEOWNER'S ASSOCIATION TO MATCH RESIDENTS INTERESTED IN CARPOOLING. * COORDINATE WITH NEAR-BY SCHOOLS AND/OR THE PROJECT'S HOMEOWNER'S ASSOCIATION TO MATCH RESIDENTS INTERESTED IN CARPOOLING TO/FROM SCHOOLS. * PROVIDE ON-SITE TRANSIT OPPORTUNITIES INFORMATION. * ENCOURAGE BICYCLING BY PROVIDING ON-SITE BICYCLE INFRASTRUCTURE SUCH AS BIKE RACKS AND PUBLIC-USE ELECTRIC BIKES.
PDF TRA-3	IN ACCORDANCE WITH THE CALIFORNIA VEHICLE CODE, THE PROJECT APPLICANT SHALL PREPARE A TRAFFIC CONTROL PLAN FOR USE DURING CONSTRUCTION. THIS PLAN SHALL OUTLINE FLAGGING PROCEDURES AND DELIVERY/MOVEMENT TIMING TO AVOID PEAK TRAFFIC PERIODS. THE PLAN SHALL ALSO OUTLINE PROCEDURES FOR NOTIFYING THE OCEANSIDE POLICE AND FIRE DEPARTMENTS OF FORTHCOMING LANE OR ROADWAY CLOSURES. THIS SHALL ALLOW THE POLICE AND FIRE DEPARTMENTS TO MODIFY EMERGENCY RESPONSE PLANS AND NOTIFY OTHER PUBLIC SERVICE PROVIDERS OF CLOSURES. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO ISSUANCE OF A GRADING PERMIT.
PDF TRA-4	THE PROJECT SHALL COORDINATE WITH THE CITY TO PROVIDE A PEDESTRIAN CROSSWALK ACROSS BENET ROAD AT AIRPORT ROAD. THIS MEASURE WILL HELP ADDRESS THE LACK OF PEDESTRIAN FACILITIES ON THE EASTERN SIDE OF BENET ROAD BETWEEN AIRPORT ROAD AND THE SAN LUIS RIVER TRAIL AND WILL IMPROVE PEDESTRIAN AND BICYCLE CONNECTIVITY TO THE SAN LUIS RIVER TRAIL.

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

SAN DIEGO GAS & ELECTRIC PERMISSION TO GRADE AND CONSTRUCT IMPROVEMENTS

PERMISSION IS HEREBY GRANTED TO O'SIDE PARTNERSHIP, LLC AND OCEANSIDE SURF CLUB, LLC (PERMITTEES) TO GRADE AND CONSTRUCT IMPROVEMENTS AS SHOWN ON THESE PLANS WITHIN SAN DIEGO GAS & ELECTRIC COMPANY'S EASEMENT(S) SUBJECT TO THE FOLLOWING CONDITIONS:

1. SUBMITTALS:
   - 1.1. PERMITTEES AGREES TO SUPPLY SDG&E WITH "AS-BUILT" GRADING, IMPROVEMENT, AND PROFILE PLANS TO SDG&E SPECIFICATIONS, IF REQUESTED.
   - 1.2. PERMITTEES AGREES TO SUBMIT FOR REVIEW AND APPROVAL A BLASTING PLAN PRIOR TO BLASTING, IF BLASTING IS REQUIRED.

2. PRE-CONSTRUCTION MEETINGS: SDG&E'S LAND MANAGEMENT REPRESENTATIVE (LMR) MUST BE INVITED WITH AT LEAST THREE (3) WORKING DAYS PRIOR NOTICE.

3. GRADING:
   - 3.1. AT LEAST TWENTY-FOUR (24) HOURS' NOTICE MUST BE GIVEN TO SDG&E'S LMR BEFORE START OF WORK.
   - 3.2. FIELD CHANGES TO PLANS WITHIN SAID EASEMENT SHALL BE APPROVED IN WRITING BY SDG&E LMR.
   - 3.3. PERMITTEES ARE RESPONSIBLE TO CALL DIG ALERT AT 811 FOR ALL UNDERGROUND MARK-OUT LOCATIONS.
   - 3.4. CLEARANCE OF (35) FEET MINIMUM BETWEEN THE SDG&E ELECTRIC TRANSMISSION WIRES AND THE NATURAL GROUND SHALL BE MAINTAINED ON ANY GIVEN DAY, NOTING LINE SAGS VARY DEPENDING ON AMBIENT TEMPERATURE AND LINE CURRENT. ALL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO OSHA, CAL-OSHA, ANSI, NIOSH, AND NEC FOR CLEARANCES WHEN WORKING AROUND ENERGIZED ELECTRICAL FACILITIES MUST BE MAINTAINED.
   - 3.5. NO GRADING SHALL BE ALLOWED WITHIN TEN (10) FEET OF A SINGLE WOOD POLE STRUCTURE OR ANCHOR, WITHIN FIFTEEN (15) FEET OF MULTI-WOOD POLES, WITHIN TWENTY (20) FEET OF STEEL LATTICE TOWERS OR WITHIN THIRTY (30) FEET OF STEEL POLES.
   - 3.6. SDG&E RESERVES THE RIGHT TO INSPECT AND PERFORM QUALITY CONTROL WORK DURING CONSTRUCTION.

4. SPECIAL CONDITIONS:
   1. SDG&E MUST HAVE A LOCK ON ALL GATES DURING AND AFTER CONSTRUCTION TO MAINTAIN 24/7 ACCESS.
   2. MINIMUM ACCESS WIDTH MUST BE 20 FEET (PAVED AND/OR UNPAVED); ADDITIONAL WIDTH MAY BE REQUIRED DEPENDING ON THE RADIUS OF THE TURN PER ENCROACHMENT GUIDELINES.
   3. PAVEMENT MUST BE H20 (HIGHWAY) RATED.

5. EROSION CONTROL:
   - 5.1. ALL DISTURBED AND CREATED SLOPES, WITHIN THE SDG&E TRANSMISSION EASEMENT, SHALL BE HYDRO-SEEDED OR PLANTED BY PERMITTEES WITH AN SDG&E APPROVED MIX.
   - 5.2. ALL DRAINAGE SHALL BE DESIGNED TO PREVENT EROSION OF SDG&E EASEMENT AND ACCESS ROADS.

6. STORAGE: THIS PERMISSION TO GRADE LETTER DOES NOT PERMIT STORAGE OF EQUIPMENT, MATERIALS, DIRT OR DEBRIS ON THE EASEMENT OR SDG&E FEE-OWNED PROPERTY.

7. ACCESS:
   - 7.1. ACCESS TO ALL SDG&E FACILITIES SHALL BE MAINTAINED 24/7. ALL COSTS ASSOCIATED WITH RESTORATION OF ACCESS AND ALL ASSOCIATED DAMAGES SHALL BE BORNE BY PERMITTEES.
   - 7.2. ALL GATES SHALL PROVIDE FOR SDG&E ACCESS BY PADLOCK, LOCK-BOX, OR KEYED BYPASS BOTH DURING AND UPON COMPLETION OF CONSTRUCTION. LOCATION AND CONSTRUCTION OF GATES TO BE APPROVED BY SDG&E LMR.

8. OUTSTANDING AGREEMENTS: PERMITTEES AGREES TO PAY FOR, SIGN AND/OR HAVE SIGNED ALL CONSENT AGREEMENTS, CONSENT TO USE LAND AGREEMENTS AND/OR JOINT USE AGREEMENTS BETWEEN SDG&E AND OWNER OR PUBLIC AGENCIES WHO ENCROACH UPON THE SDG&E EASEMENTS. SAID AGREEMENTS WILL BE SUBJECT TO THE REVOCABILITY CLAUSE AS STATED IN THE CALIFORNIA PUBLIC UTILITIES COMMISSION GENERAL ORDER 69-C AS SHOWN ON WEB SITE: HTTP://WWW.CPUC.CA.GOV/PUBLISHED/GRAPHICS/645.PDF.

9. INDEMNIFICATION:
   - 9.1. PERMITTEES AGREES TO ASSUME ALL RISK OF LOSS, DAMAGE TO PROPERTY AND/OR INJURY AND/OR DEATH TO PERSONS, AND TO INDEMNIFY AND HOLD SDG&E HARMLESS FROM ANY, AND ALL LIABILITY IN ANY WAY ARISING FROM THE PROPOSED GRADING OR CONSTRUCTION OF IMPROVEMENTS.
   - 9.2. SDG&E SHALL NOT BE RESPONSIBLE IN ANY MANNER FOR ANY MAINTENANCE OR REPAIR OF THE PROPOSED GRADING OR IMPROVEMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DRAINAGE AND/OR EROSION PROBLEMS OR DAMAGE CAUSED TO IMPROVEMENTS THAT WERE NOT CONSTRUCTED TO TAKE THE WEIGHT OR ACTIVITIES OF VEHICLES AND EQUIPMENT OWNED BY OR WORKING ON BEHALF OF SDG&E.

10. TERMS AND CONDITIONS: THE TERMS AND CONDITIONS OF THIS APPROVAL SHALL BENEFIT AND BIND PERMITTEES ITS SUCCESSORS, ASSIGNS, AGENTS, OR CONTRACTORS.

11. CONTACT: ERIC CRAIG 619-676-0119

COMPACTION AND SUBGRADE NOTES:

1.) ALL SUBGRADE AREAS LOCATED BENEATH CURBS, GUTTERS AND DRIVEWAY APPROACHES SHALL BE COMPACTED TO 95% RELATIVE COMPACTION IN THE UPPER 12-INCHES. ONLY 90% RELATIVE COMPACTION WILL BE REQUIRE FOR THE SUBGRADE MATERIALS BENEATH SIDEWALKS.

2.) 6" MIN CLASS II SHALL BE UTILIZED BENEATH CURB, GUTTERS, DRIVEWAYS AND MINIMUM OF 95% RELATIVE COMPACTION.

3.) GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR CURBS, GUTTERS, AND DRIVEWAY THICKNESS OR SUBASE SECTION SHALL BE FOLLOWED AS DIRECTED ONCE APPROVED BY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT.

REGISTERED PROFESSIONAL ENGINEER — MARINA NATASHA WURST — No. C67517 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Bowman

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701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
3		

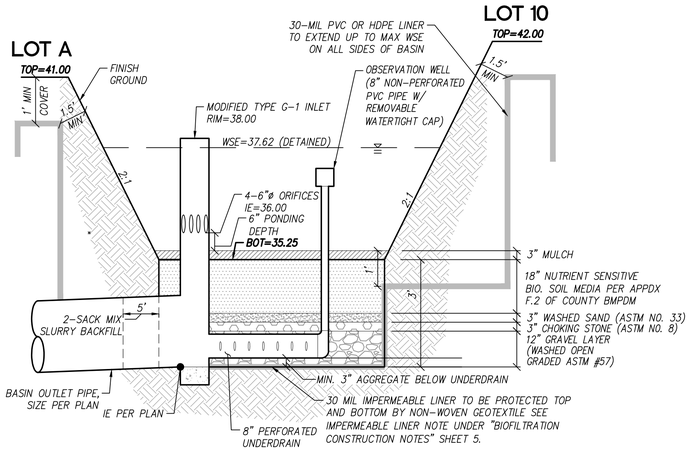
KEYMAP FOR:

OCEAN KAMP-OCEANSIDE

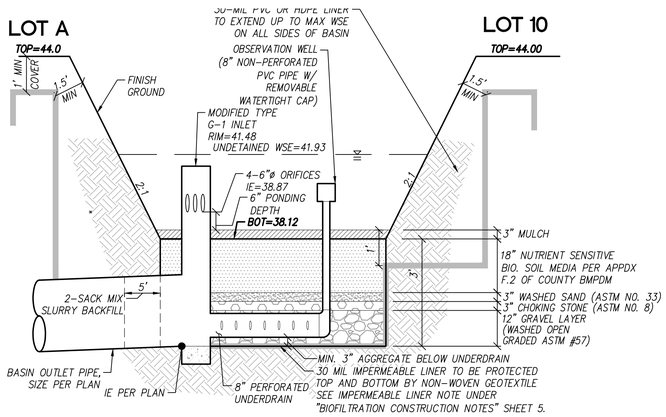
APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

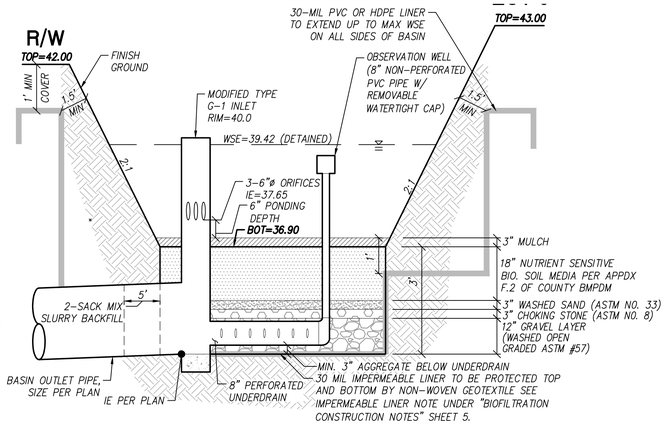
ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022



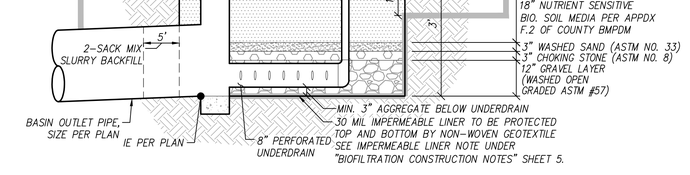
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NOT TO SCALE



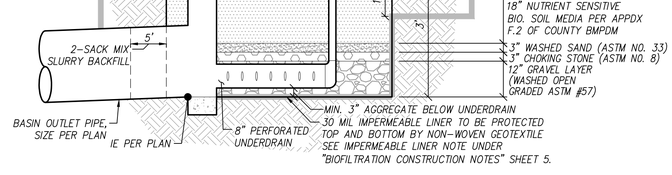
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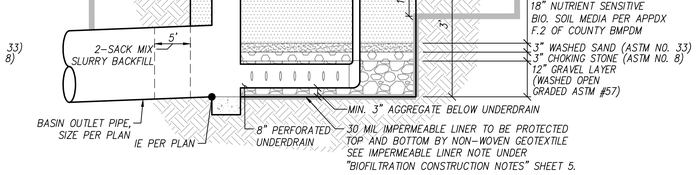
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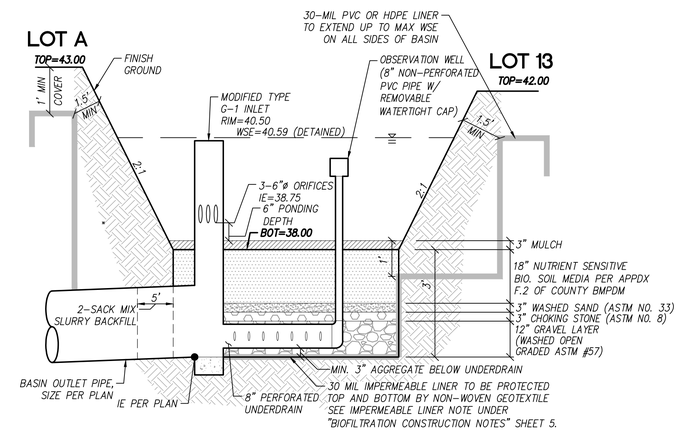
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SECTION BMP 5
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE



SECTION BMP 8
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE



SECTION BMP 3
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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San Diego, CA 92101
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

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Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
4		

BMP DETAILS AND NOTES

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

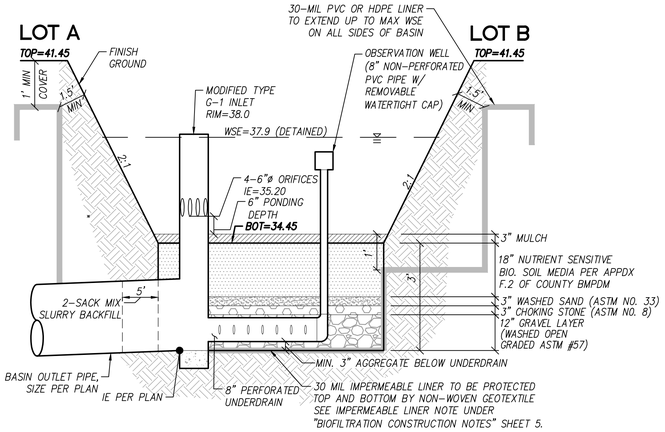
ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

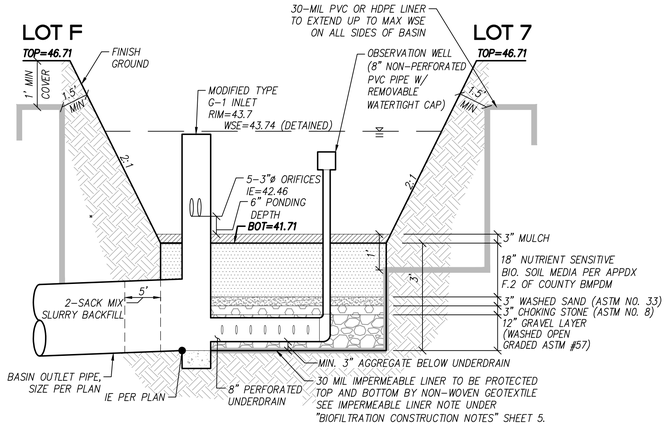
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PLAN NUMBER G24-00022

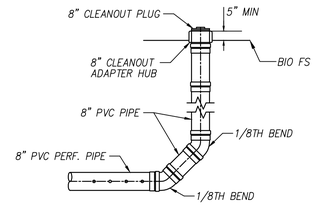
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SECTION BMP 10
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE

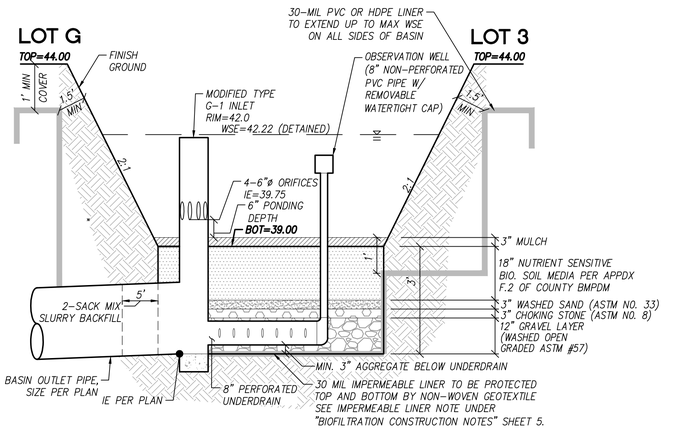


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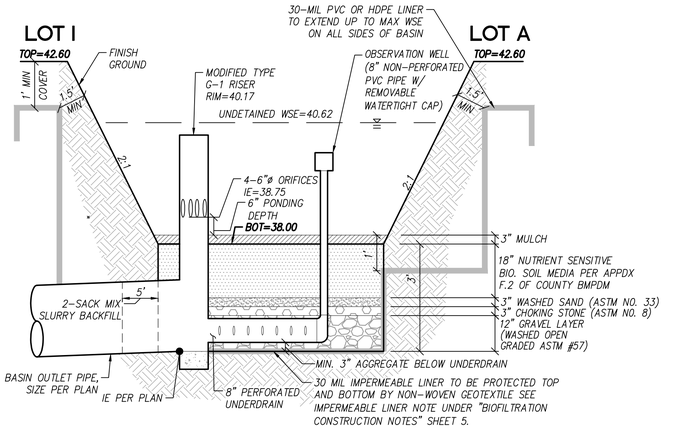


PLAN VIEW SYMBOL

DETAIL: (PVT.) END OF LINE CLEANOUT
NOT TO SCALE



SECTION BMP 11
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE



SECTION BMP 12
LINED BIOFILTRATION (PRIVATE)
NOT TO SCALE

BIOFILTRATION CONSTRUCTION NOTES:

GENERAL NOTE:

THE CONTRACTOR MUST CONTACT THE EOW, PRIOR TO CONSTRUCTION AND INSTALLATION OF ALL BMPs, POST-CONSTRUCTION BMP'S WILL REQUIRE A SEPARATE CONSTRUCTION SUBMITTAL REVIEW TO BE APPROVED BY THE EOW. ALL SUB COMPONENT LAYERS OF THE BIOFILTRATION BASIN SHALL BE IN ACCORDANCE WITH THE COUNTY OF SAN DIEGO APPENDIX F.2 (BIOFILTRATION SOIL MEDIA COMPOSITION, TESTING, AND INSTALLATION), AND APPENDIX E.15 (BF-2 NUTRIENT SENSITIVE MEDIA DESIGN).

BIORETENTION SOIL MEDIA (BSM) NOTE:

THE CONTRACTOR TO PROVIDE ENGINEER OF WORK WITH NUTRIENT SENSITIVE BSM MIX SUBMITTAL AT LEAST 30 DAYS PRIOR TO THE ORDERING OF MATERIALS. THE CONSTRUCTION SUBMITTAL SHOULD INCLUDE A BSM MIX SPECIFICATION SHEET AND AT MINIMUM, AGRICULTURAL, HYDRAULIC, AND CHEMICAL SUITABILITY TEST RESULTS (PER THE STANDARDS APPENDIX F.2). THE PROJECT RECEIVING WATER BODY IS IMPAIRED FOR NUTRIENTS. THEREFORE, THE BSM MIX SHALL BE NUTRIENT SENSITIVE (PER COUNTY FACT SHEET BF-2).

IMPERMEABLE LINER NOTE:

BASINS SHOULD BE LINED WITH AN IMPERMEABLE MEMBRANE ON BOTTOM AND SIDES, UP TO AT LEAST THE MAXIMUM WATER SURFACE ELEVATION. PLACE LINER IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. 30 MIL MINIMUM HDPE, PVC, LLDPE OR APPROVED EQUIVALENT LINER WITH DESIGN FOR SLOPING CONDITIONS TO BE USED. NON-WOVEN GEOTEXTILE (MIRAFI140N OR APPROVED EQUIVALENT) TO BE PLACED ON TOP AND UNDER THE LINER.

LINER ATTACHMENT NOTE:

FOR ANY STRUCTURES PENETRATING THE IMPERMEABLE LINER, A PIPE BOOT MUST BE INSTALLED. THE BOOT IS AN ATTACHMENT TO THE STRUCTURE WHICH PREVENTS LEAKAGE AT THE POINT OF PENETRATION THROUGH THE LINER. THE BOOT SLEEVE IS THE SAME MATERIAL AS THE LINER AND WILL HAVE A LARGER DIAMETER/AREA OPENING THAN THE PIPE AND/OR STRUCTURE. CONTRACTOR SHALL FOLLOW GUIDELINES FROM LINER MANUFACTURER FOR INSTALLATION OF PIPE BOOTS.

THE CONTRACTOR SHALL REFER TO THE IMPERMEABLE LINER FASTENING DETAIL (GS-5.15) OF THE COUNTY OF SAN DIEGO GREEN STREETS STANDARD DRAWINGS FOR ATTACHING THE LINER TO A STRUCTURE. THIS GS-5.15 STANDARD REFERENCE CAN APPLY TO OTHER LINER MATERIALS SUCH AS HDPE OR LLDPE, HOWEVER THE CONTRACTOR SHALL FOLLOW ADDITIONAL RECOMMENDATIONS FROM THE MANUFACTURER.

PLAN VIEW SYMBOL

DETAIL: (PVT.) OBSERVATION WELL
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 5	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

BMP DETAILS AND NOTES
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

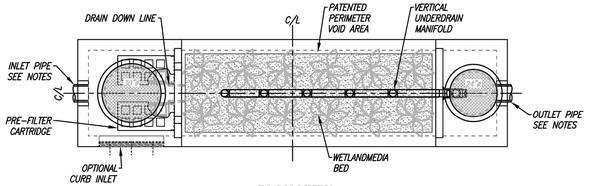
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PLAN NUMBER G24-00022

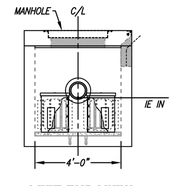
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SITE SPECIFIC DATA			
PROJECT NUMBER	4375.50		
PROJECT NAME	Ocean Kamp		
PROJECT LOCATION	Oceanside, CA		
STRUCTURE ID	BMP 7		
TREATMENT REQUIRED			
TREATMENT FLOW (CFS)			0.220
PRETREATMENT LOADING RATE (GPM/SF)			2.1 GPM/SF
WETLAND MEDIA LOADING RATE (GPM/SF)			1.0
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			3.8
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE	31.49	HDPE	12
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION	38.48	38.59	
SURFACE LOAD	PEDESTRIAN		
NOTES:			

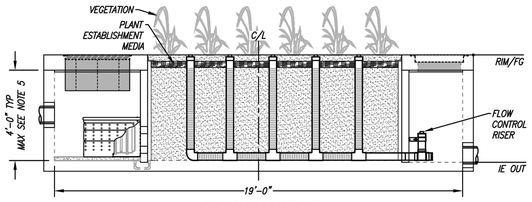
* PRELIMINARY ONLY - NOT FOR CONSTRUCTION



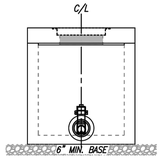
PLAN VIEW



LEFT END VIEW



ELEVATION VIEW



RIGHT END VIEW

INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
3. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL.
4. CONTRACTOR RESPONSIBLE FOR CONTACTING CONTECH FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A CONTECH REPRESENTATIVE.
5. VERTICAL HEIGHT VARIES BASED ON SITE SPECIFIC REQUIREMENTS.

U.S. PATENT NO. 8,557,109

MODULAR WETLANDS
FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

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www.ContechES.com

MWS-L-4-19-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

SECTION BMP 7
MWS-L-4-19-V (PRIVATE)
NOT TO SCALE

Underground Service Alert
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER — MARINA NATASHA WURST — No. C67517 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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San Diego, CA 92101
Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 6 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

BMP DETAILS AND NOTES
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By:
Date:

PLAN NUMBER G24-00022

G: \CA-SAND-PD\Projects\4375.50\Engr\DWG_Plans\Grading Mass\4375.50_GRD 6.dwg, Date Last Saved 6/9/2025 8:14:02 AM, Date Plotted Last 7/3/2025 1:16:09 PM

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No. C67517
Exp. 6/30/27
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STATE OF CALIFORNIA

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PM REVIEW:

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Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 7	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

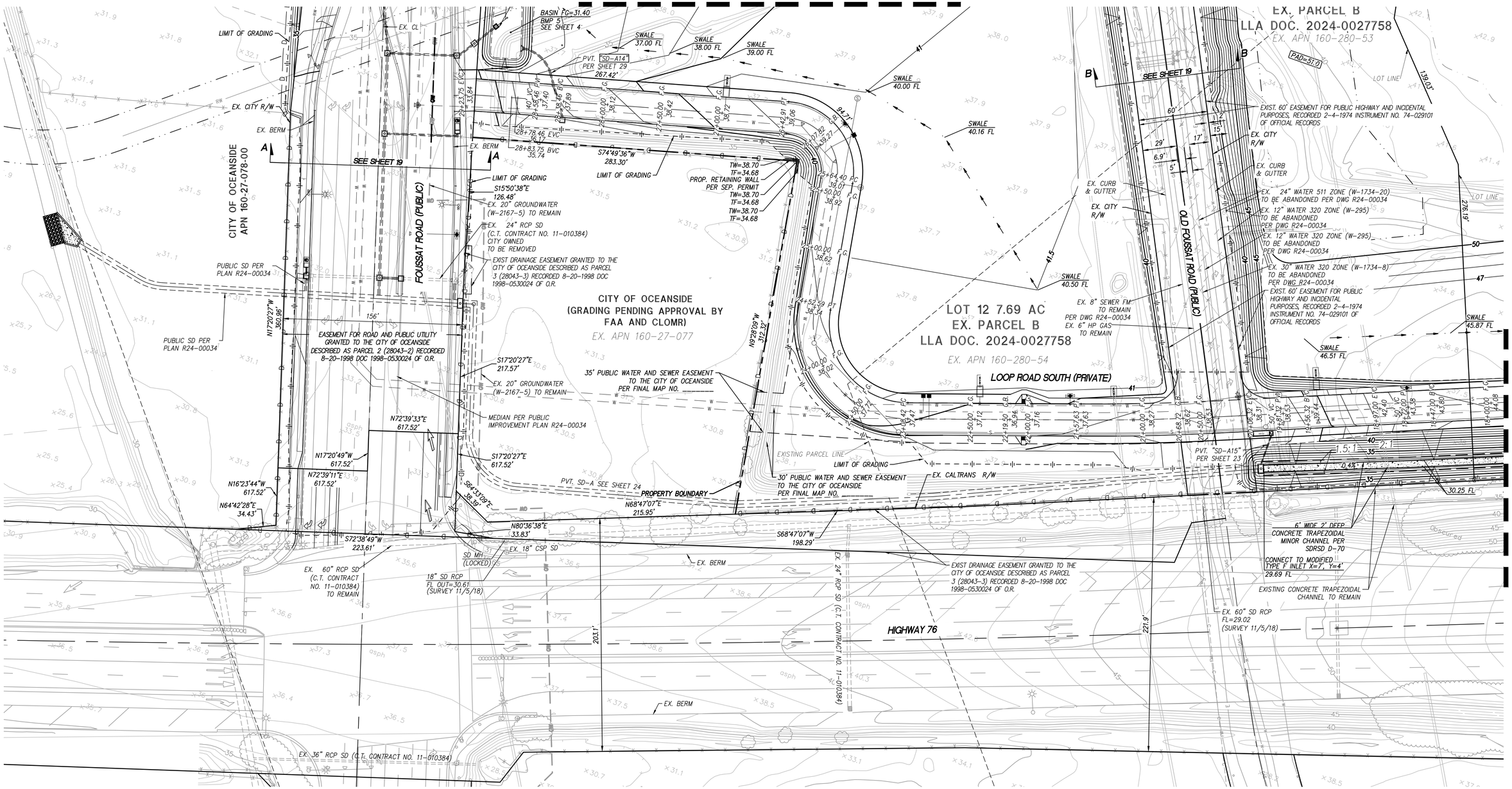
MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

SEE SHEET 9



SEE SHEET 11

Underground Service Alert

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TWO WORKING DAYS BEFORE YOU DIG

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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DESIGNED BY: PM REVIEW:

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Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 8	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

GRADING PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

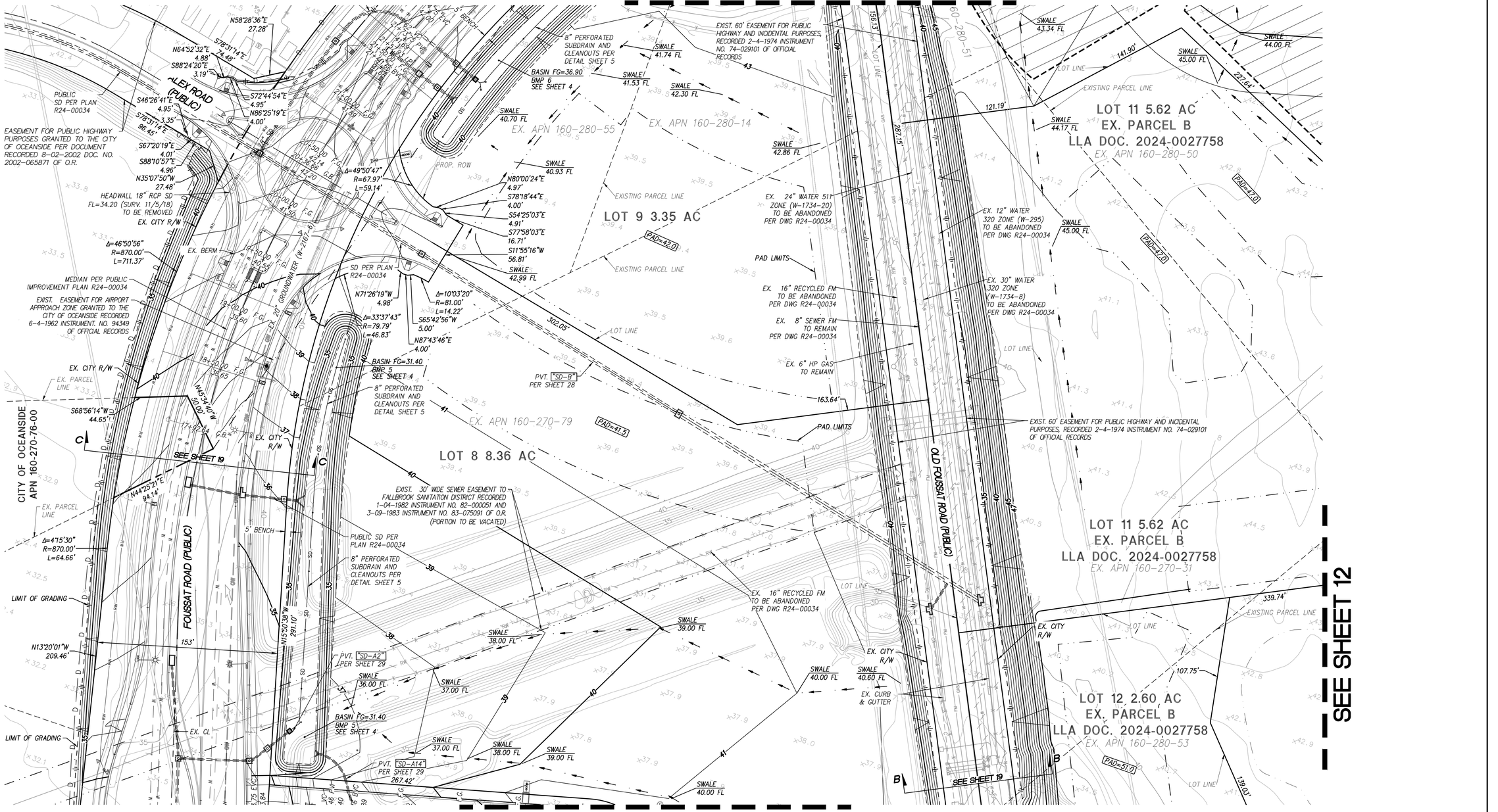
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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SEE SHEET 10



SEE SHEET 8

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CALL BEFORE YOU DIG

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TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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APPROVED CHANGES:

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Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
9		

GRADING PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

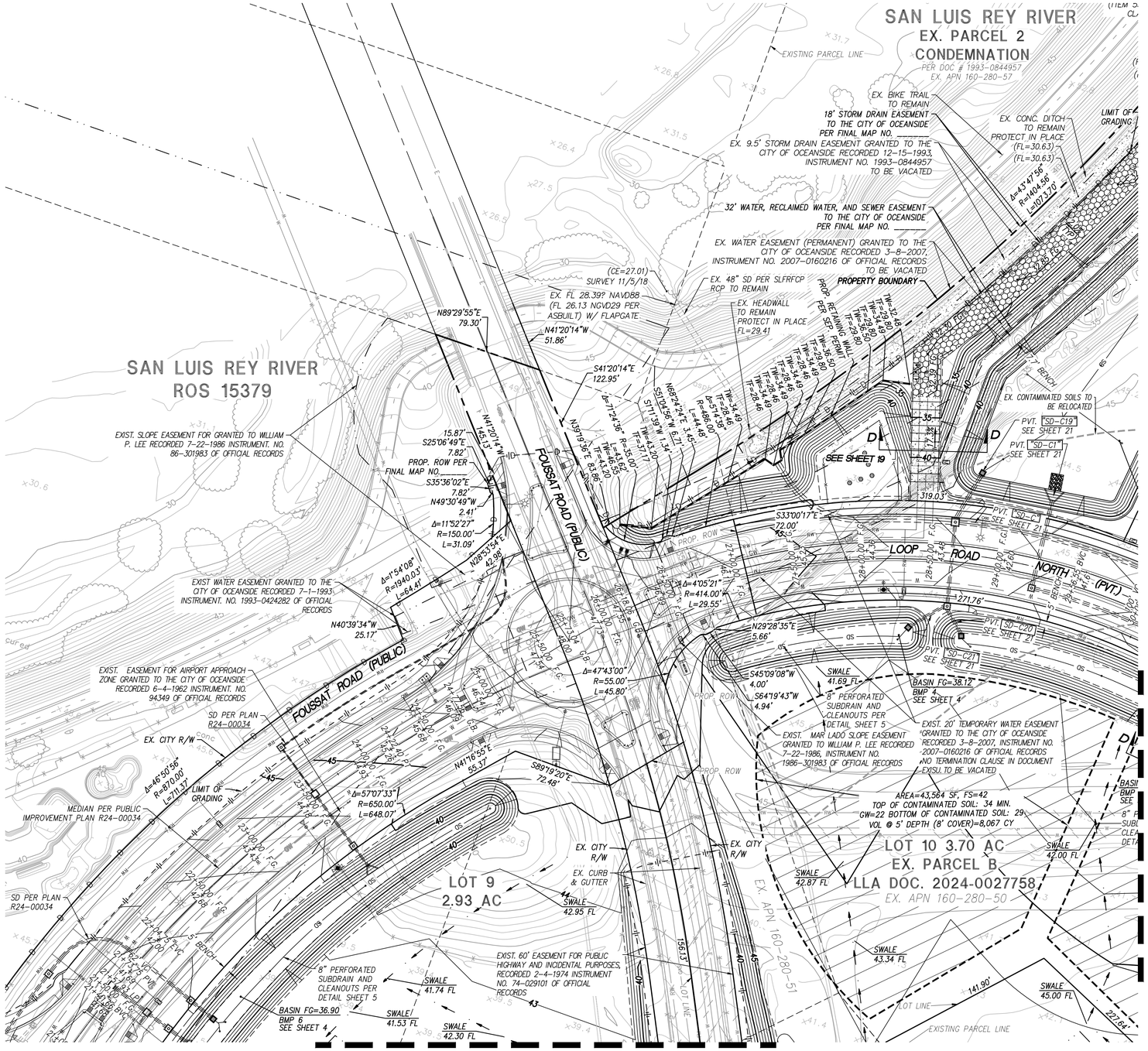
MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

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TWO WORKING DAYS BEFORE YOU DIG

N

0 20 40 80 120

SCALE: 1" = 40'

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DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 10	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

GRADING PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

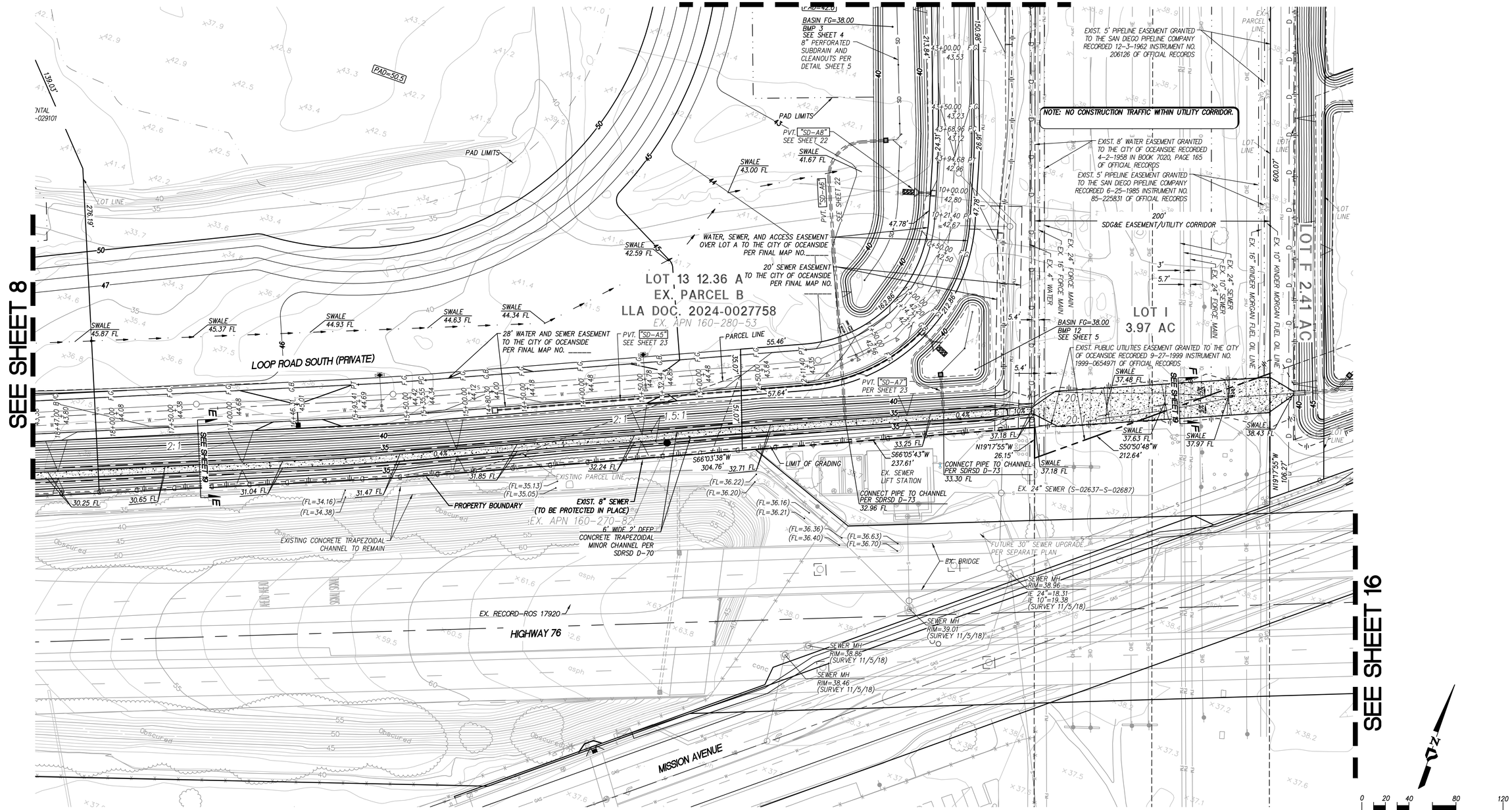
ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____

ERIC CRAIG
PRINCIPAL LAND AGENT

VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

SDG&E OVERHEAD CONDUCTORS NOTE:

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, 230KV & 69KV ELEVATION VARIES. REFER TO WWW.SDGE.COM/PROJECT-RESOURCES FOR ADDITION AL REQUIREMENTS AND TO SCHEDULE STANDBY LINEMAN SAFETY WATCH, OUTAGE COORDINATION AND/OR CONSTRUCTION MEANS & METHOD'S REVIEW FOR ANY WORK WITHIN 20 FEET RADIAL CLEARANCE OR WITHIN CALOSHA §5003.1 MINIMUM CLEARANCE DISTANCES FOR WORKERS & EQUIPMENT. EXCAVATIONS MUST MAINTAIN 10 FEET RADIAL CLEARANCE FROM EXISTING INFRASTRUCTURE. ONLY SDG&E APPROVED QUALIFIED ELECTRICAL WORKER IS ALLOWED TO WORK WITHIN THOSE MINIMUM CLEARANCE DISTANCES. PROVIDE 30 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING INFRASTRUCTURE.

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MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 11	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

GRADING PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

SEE SHEET 13

SEE SHEET 9

SEE SHEET 17

SEE SHEET 16

SEE SHEET 11

AREA=49,323 SF FS=42
TOP OF CONTAMINATED SOIL: 34 MIN.
GW=21 BOTTOM OF CONTAMINATED SOIL: 28
VOL @ 6' DEPTH (8' COVER)=10,960 CY

HIGHLINE UTILITIES TO BE REMOVED PER SHEET 30

LOT 10 3.70 AC
EX. PARCEL B
LLA DOC. 2024-0027758
EX. APN 160-280-50

LOT 13 12.36 AC
LLA DOC. 2024-0027758
EX. APN 160-280-53

LOT 13 12.36 AC
EX. PARCEL B
LLA DOC. 2024-0027758
EX. APN 160-280-53

LOT H
WATER, SEWER, AND ACCESS EASEMENT OVER LOT A TO THE CITY OF OCEANSIDE PER FINAL MAP NO._____

LOT A

LOT F
2.41 AC

STREET 'B' (PVT.) LOT 'H'

LOOP ROAD — NORTH (PRIVATE)

EXIST. 20' SEWER EASEMENT GRANTED TO THE CITY OF OCEANSIDE RECORDED 8-3-1990 INSTRUMENT NO. 90-426033 OF OFFICIAL RECORDS

200' EASEMENT TO SDG&E RECORDED 05/31/1962 FILE NO. 92930

NOTE: NO CONSTRUCTION TRAFFIC WITHIN UTILITY CORRIDOR.

200'
SDG&E EASEMENT/UTILITY CORRIDOR
100' 100'

EXIST. 150' WIDE ELECTRIC TRANSMISSION EASEMENT TO SDG&E RECORDED 10-11-1940 IN BOOK 1085, PAGE 69 AND IN BOOK 1076, PAGE 488, BOTH OF OFFICIAL RECORDS

EXIST. 5' PIPELINE EASEMENT GRANTED TO THE SAN DIEGO PIPELINE COMPANY RECORDED 6-25-1985 INSTRUMENT NO. 85-225831 OF OFFICIAL RECORDS

EXIST. 4' SEWER EASEMENT GRANTED TO THE CITY OF OCEANSIDE RECORDED 8-2-1962, INSTRUMENT NO. 131604 OF OFFICIAL RECORDS

EXIST. 20' SEWER EASEMENT GRANTED TO THE CITY OF OCEANSIDE RECORDED 8-3-1990 INSTRUMENT NO. 90-426033 OF OFFICIAL RECORDS

EXIST. 50' WIDE EASEMENT TO SDG&E RECORDED 12-04-1962 INSTRUMENT NO. 206284 OF O.R.

EXIST. 5' PIPELINE EASEMENT GRANTED TO THE SAN DIEGO PIPELINE COMPANY RECORDED 12-3-1962 INSTRUMENT NO. 206126 OF OFFICIAL RECORDS

EX. 42" FORCE MAIN
EX. 24" FORCE MAIN
EX. 16" FORCE MAIN
EX. 4" WATER
EX. 24" SEWER
EX. 10" SEWER
EX. 24" FORCE MAIN

BASIN FG=37.90
BMP 2
SEE SHEET 4

BASIN FG=38.00
BMP 3
SEE SHEET 4
8" PERFORATED SUBDRAIN AND CLEANOUTS PER DETAIL SHEET 5

8" PERFORATED SUBDRAIN AND CLEANOUTS PER DETAIL SHEET 5

EX. CONTAMINATED SOILS TO BE RELOCATED

PAD LIMITS

PAD=44.0
PAD=47.0
PAD=48.0
PAD=53.0
PAD=50.0
PAD=50.5
PAD=42.0

SWALE 44.00 FL
SWALE 42.37 FL
SWALE 43.08 FL
SWALE 44.96 FL
SWALE 46.00 FL
SWALE 46.98 FL
SWALE 49.00 FL
SWALE 50.00 FL

LOT LINE
EXISTING PARCEL LINE

PVT. "SD-C16" SEE SHEET 25
PVT. "SD-C18" SEE SHEET 25
PVT. "SD-C14" SEE SHEET 22
PVT. "SD-C-16" SEE SHEET 22

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____
ERIC CRAIG
PRINCIPAL LAND AGENT
VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

SDG&E OVERHEAD CONDUCTORS NOTE:
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No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

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APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

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Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

SCALE: 1" = 40'

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
12		

GRADING PLAN FOR:
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By:
Date:

PLAN NUMBER
G24-00022

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SEE SHEET 14

SEE SHEET 10

SEE SHEET 18

SEE SHEET 17

SEE SHEET 12

LOT B 1.74 AC
EX. PARCEL A
LLA DOC. 2024-0027758
EX. APN 160-280-49

LOT 2 6.24 AC
EX. PARCEL A
LLA DOC. 2024-0027758
EX. APN 160-280-49

LOT 1 10.75 AC
EX. PARCEL A
LLA DOC. 2024-0027758
EX. APN 160-280-49

LOT 3 4.00 AC
EX. PARCEL A
LLA DOC. 2024-0027758
EX. APN 160-280-49

LOT G 0.48 AC
EX. PARCEL A
LLA DOC. 2024-0027758
EX. APN 160-280-50

LOT 10 3.70 AC
EX. PARCEL B
LLA DOC. 2024-0027758
EX. APN 160-280-50

LOT C
2.00 AC

LOT A

LOOP ROAD NORTH (PRIVATE)

LIMIT OF GRADING

LOT LINE

EX. 40' TEMPORARY CONSTRUCTION EASEMENT GRANTED TO THE CITY OF OCEANSIDE RECORDED 12-15-1993, INSTRUMENT NO. 1993-0844957 OF OFFICIAL RECORDS

8" PERFORATED SUBDRAIN AND CLEANOUTS PER DETAIL SHEET 5

EX. CONTAMINATED SOILS TO BE RELOCATED

MEDIAN PER PUBLIC IMPROVEMENT PLAN _____

WATER, SEWER, AND ACCESS EASEMENT OVER LOT A TO THE CITY OF OCEANSIDE PER FINAL MAP NO._____

HIGHLINE UTILITIES TO BE REMOVED PER SHEET 30

BASIN FG=34.45
BMP 10
SEE SHEET 5

BASIN FG=35.25
BMP 1
SEE SHEET 4

BASIN FG=39.15
BMP 11
SEE SHEET 5

BASIN FG=37.90
BMP 2
SEE SHEET 4

AREA=49,323 SF FS=42
TOP OF CONTAMINATED SOIL: 34 MIN.
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VOL @ 6' DEPTH (8' COVER)=10,960 CY

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SWALE 45.93 FL
SWALE 45.39 FL
SWALE 44.84 FL
SWALE 44.30 FL
SWALE 44.54 FL
SWALE 44.00 FL
SWALE 42.37 FL
SWALE 43.08 FL
SWALE CONNECT TO RISER 43.78 FL

8" PERFORATED SUBDRAIN AND CLEANOUTS PER DETAIL SHEET 5

PVT. SD-C1 SEE SHEET 21
PVT. SD-C2 SEE SHEET 21
PVT. SD-C3 SEE SHEET 21
PVT. SD-C4 SEE SHEET 21
PVT. SD-C5 SEE SHEET 21
PVT. SD-C7 SEE SHEET 21
PVT. SD-C13 SEE SHEET 25
PVT. SD-C14 SEE SHEET 22
PVT. SD-C15 SEE SHEET 25
PVT. SD-C16 SEE SHEET 25
PVT. SD-C18 SEE SHEET 25

PROPERTY BOUNDARY

DEED TO SDG&E RECORDED 7/31/1962 FILE NO. 92390 OF O.R.
APN: 160-280-09

NOTE: NO CONSTRUCTION TRAFFIC WITHIN UTILITY CORRIDOR.

200' SDG&E EASEMENT/UTILITY CORRIDOR

200' EASEMENT TO SDG&E RECORDED 05/31/1962 FILE NO. 92930

EXIST. 50' WIDE PUBLIC UTILITY EASEMENT TO SDG&E RECORDED 2-27-1963 INSTRUMENT NO. 34027 OF OFFICIAL RECORDS

EXIST. 8' WATER EASEMENT GRANTED TO THE CITY OF OCEANSIDE RECORDED 3-25-1958 IN BOOK 7007, PAGE 522 OF OFFICIAL RECORDS

EXIST. 150' WIDE ELECTRIC TRANSMISSION EASEMENT TO SDG&E RECORDED 10-11-1940 IN BOOK 1085, PAGE 69 AND IN BOOK 1076, PAGE 488, BOTH OF OFFICIAL RECORDS

EX. 16" KINDER MORGAN FUEL OIL LINE

EX. 10" KINDER MORGAN FUEL OIL LINE

EX. PARCEL LINE

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____
ERIC CRAIG
PRINCIPAL LAND AGENT
VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

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SCALE: 1" = 40'

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SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
13		

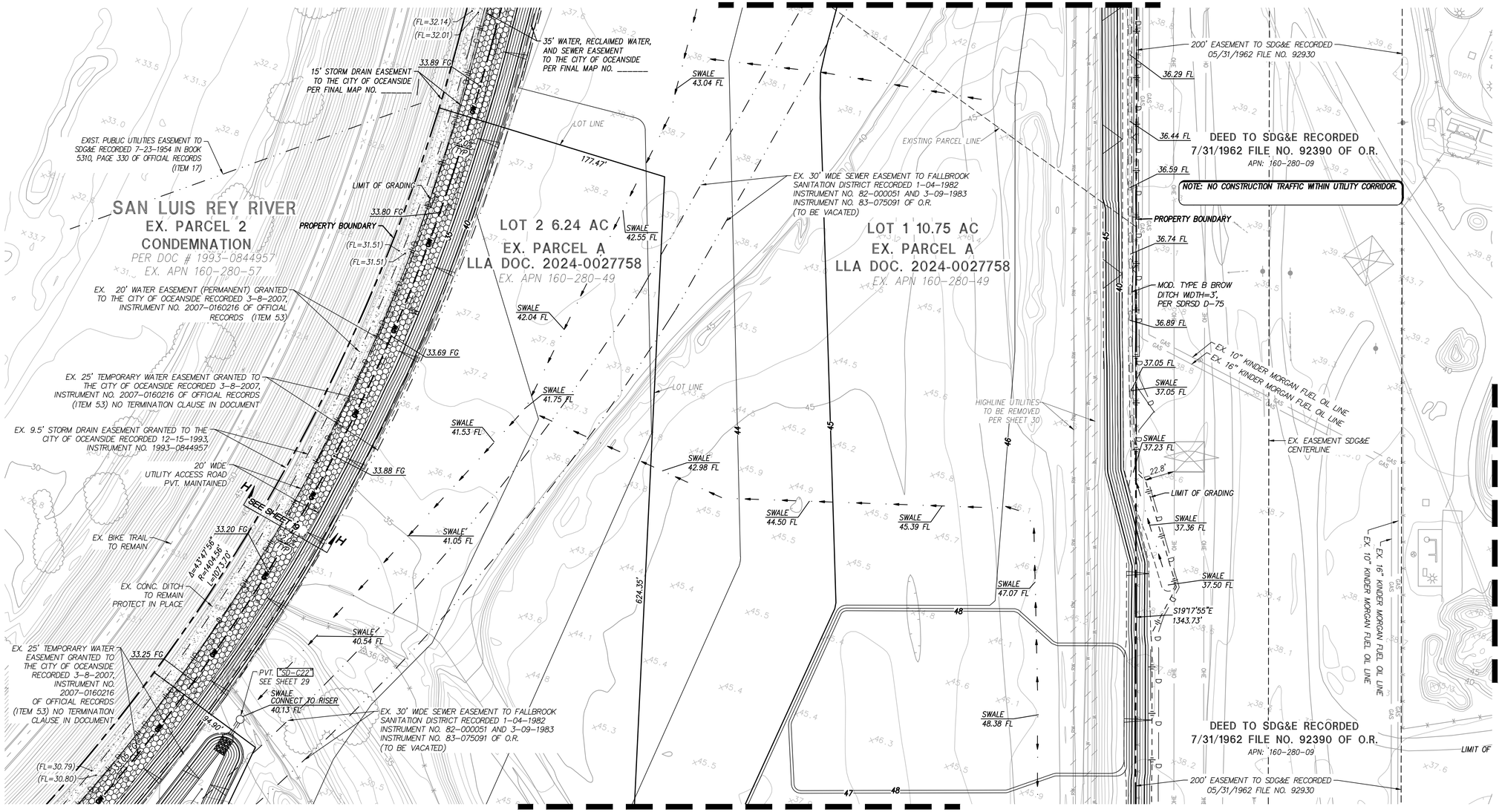
GRADING PLAN FOR:
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022

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SEE SHEET 15



SEE SHEET 13

SEE SHEET 18

N

0 20 40 80 120

SCALE: 1" = 40'

WDID NO. 9 37C399692 FILE NO.

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____
ERIC CRAIG
PRINCIPAL LAND AGENT
VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

SDG&E OVERHEAD CONDUCTORS NOTE:
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REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman
Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY: 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
14		

GRADING PLAN FOR:
OCEAN KAMP-OCEANSIDE

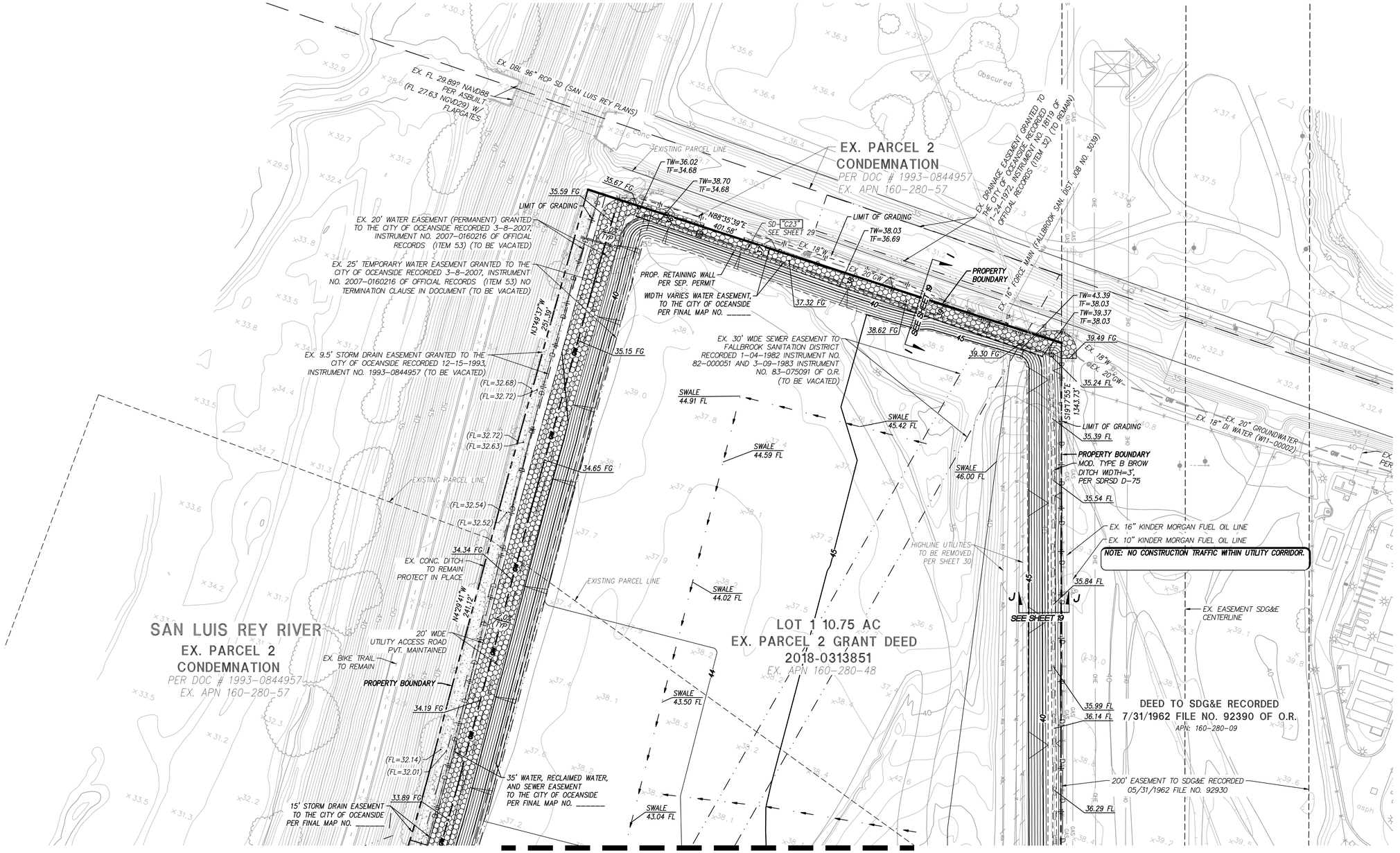
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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WDID NO. 9 37C399692 FILE NO.

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

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Elev. 33.87 FEET Datum: NAVD 88

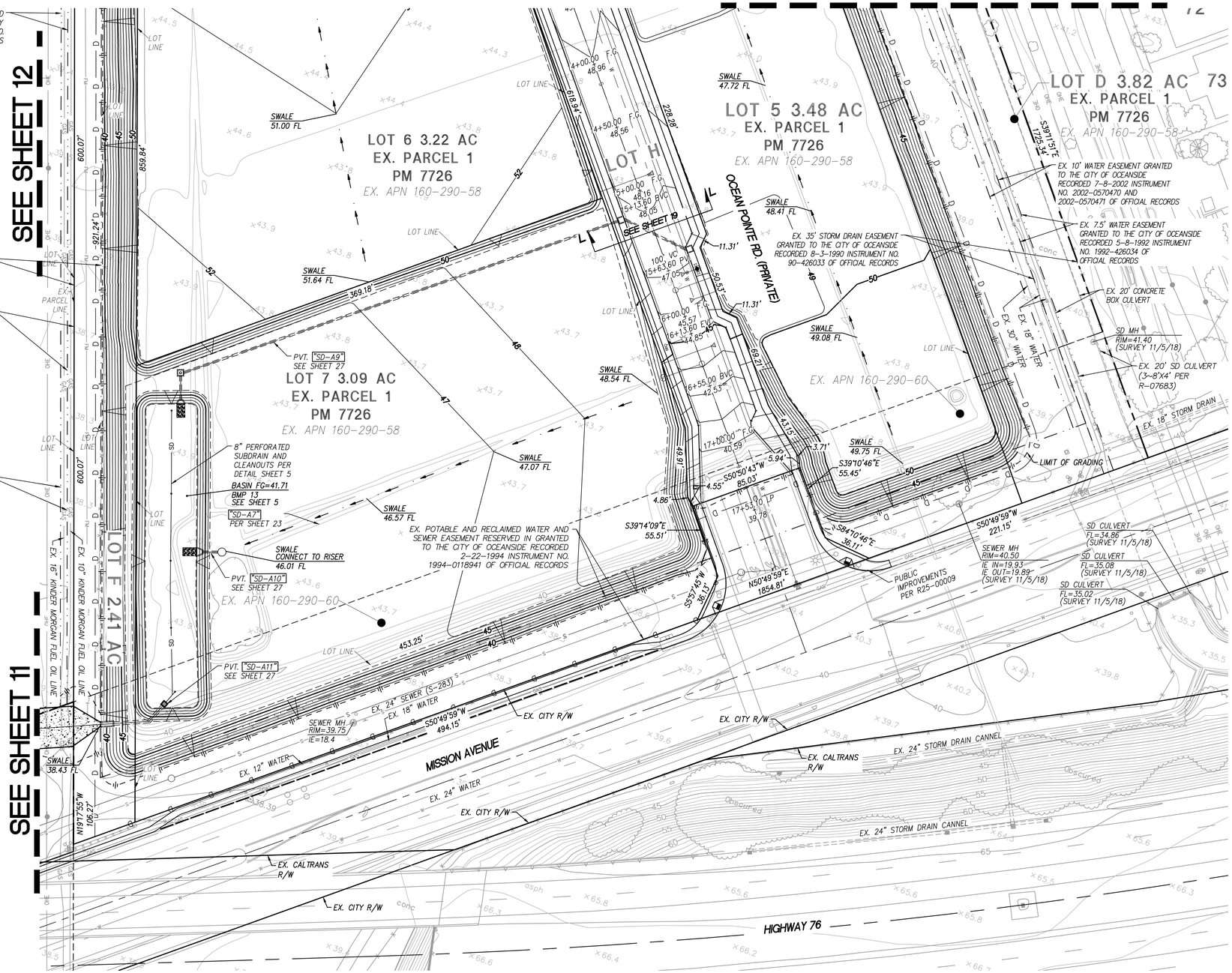
SHEET 15	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

GRADING PLAN FOR:
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022

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Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
16		

GRADING PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

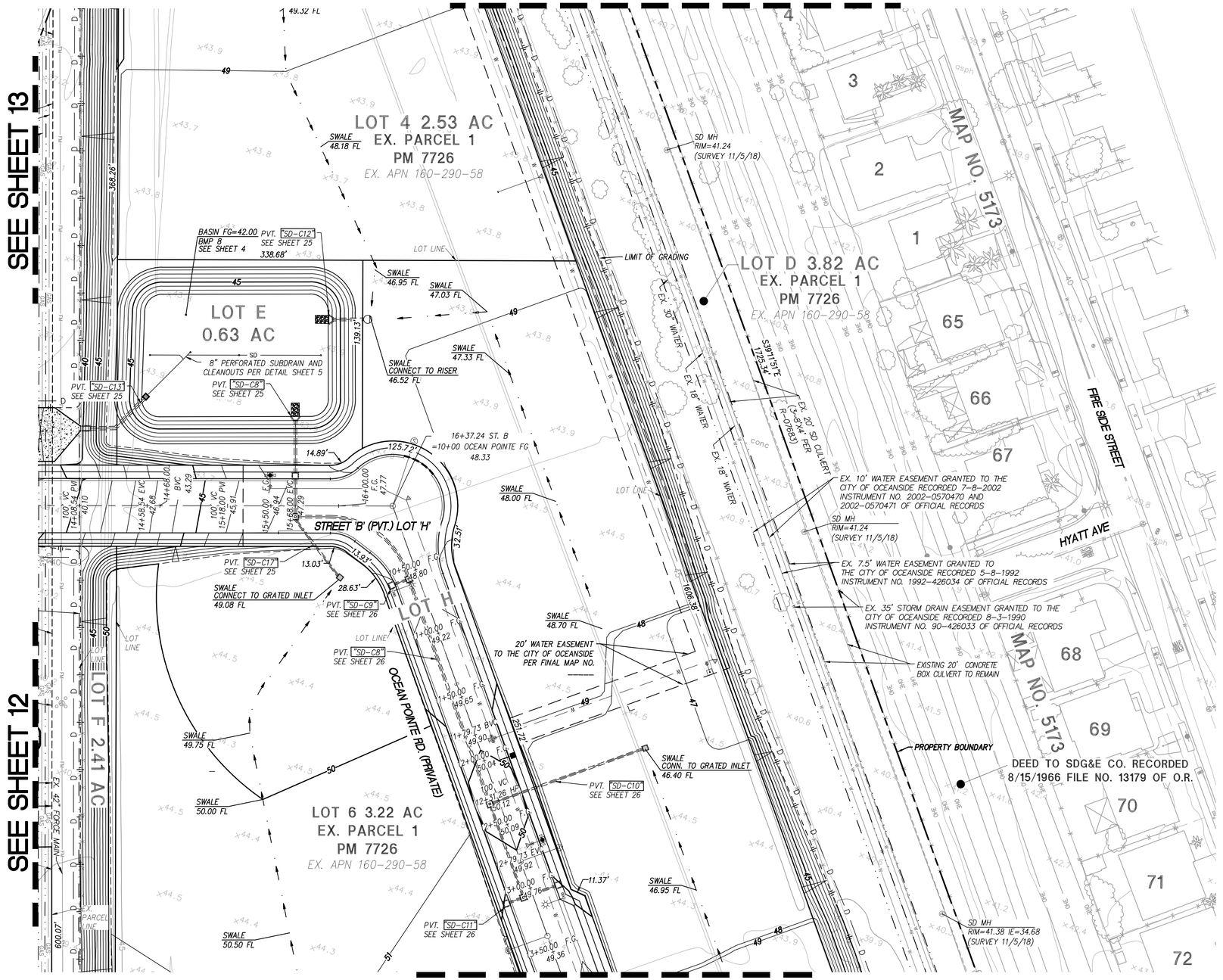
PLAN NUMBER G24-00022

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SEE SHEET 18

SEE SHEET 13

SEE SHEET 12



SEE SHEET 16

SAN DIEGO GAS & ELECTRIC COMPANY

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DESIGNED BY:

PM REVIEW:

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Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
17		

GRADING PLAN FOR:

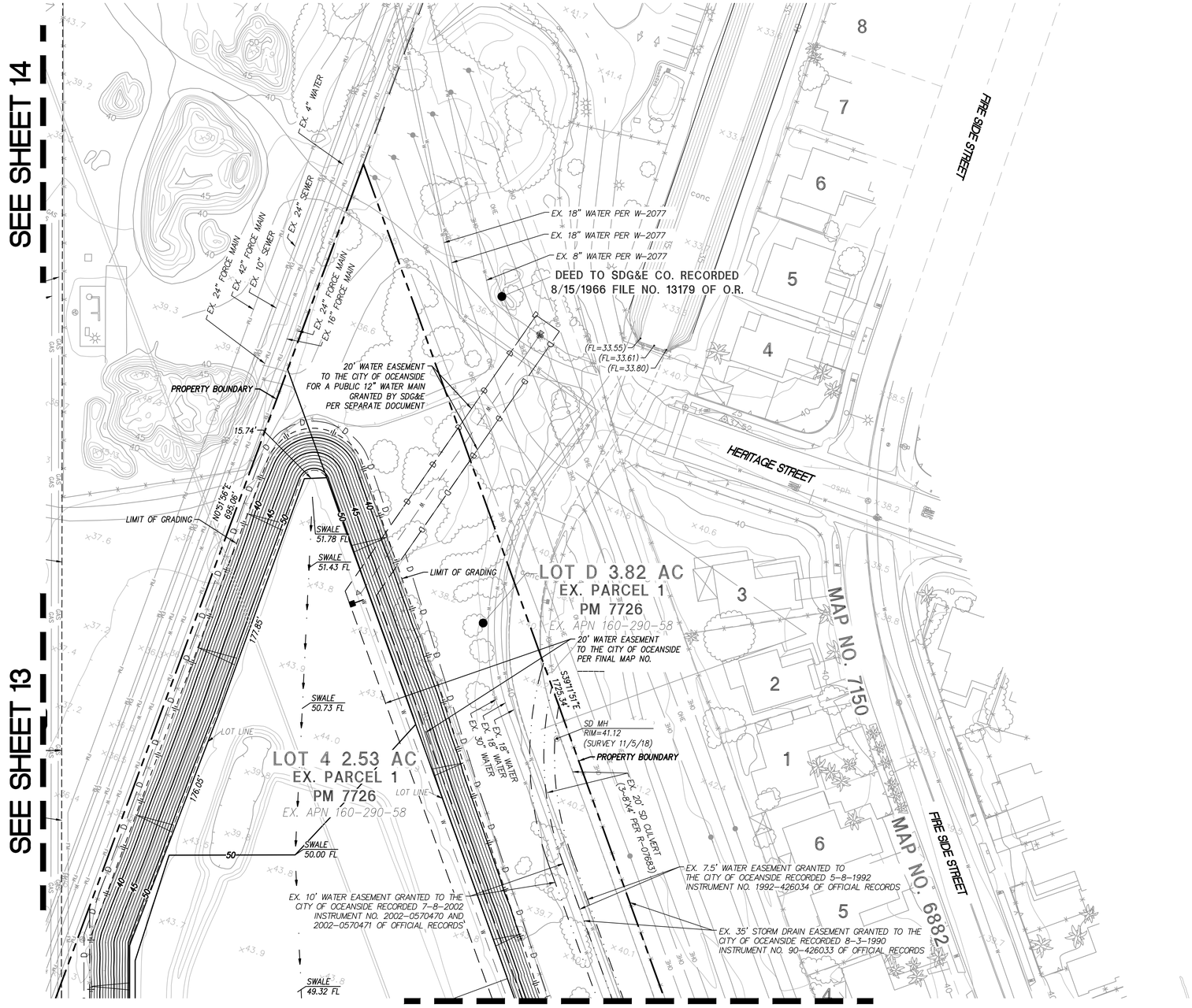
OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022

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SCALE: 1" = 40'

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
18		

GRADING PLAN FOR:

OCEAN KAMP–OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

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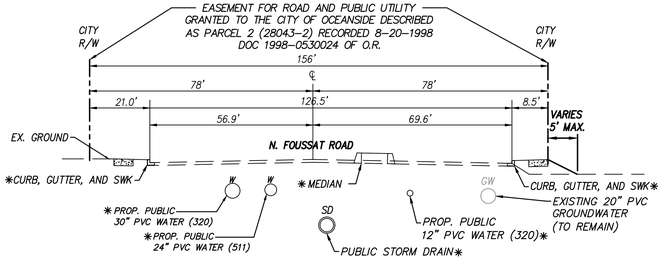
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DESIGNED BY: PM REVIEW:

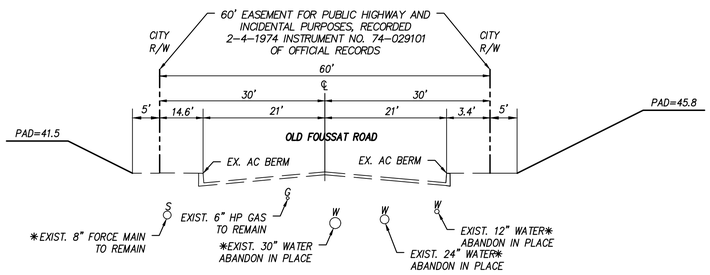
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✱ PER PUBLIC IMPROVEMENT PLAN_____



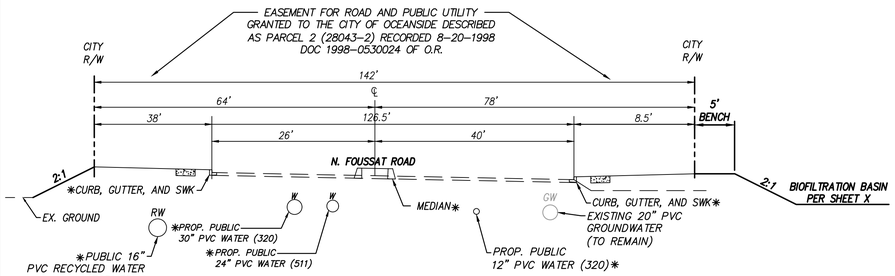
FOUSSAT ROAD SECTION A-A.: SEE SHEET 8

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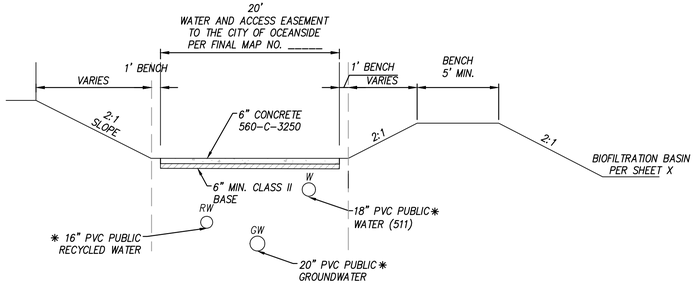
OLD FOUSSAT ROAD SECTION B-B: SEE SHEET 8

NOT TO SCALE



FOUSSAT ROAD SECTION C-C.: SEE SHEET 9

NOT TO SCALE



SECTION D-D: SEE SHEET 10

NOT TO SCALE

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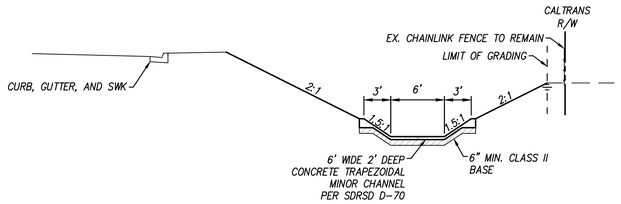
TWO WORKING DAYS BEFORE YOU DIG

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY:_____ DATE: _____

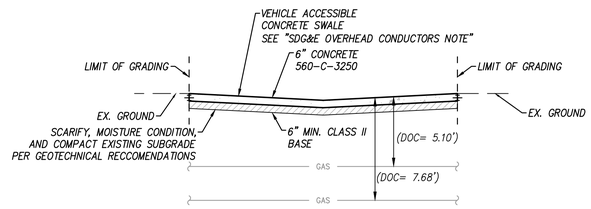
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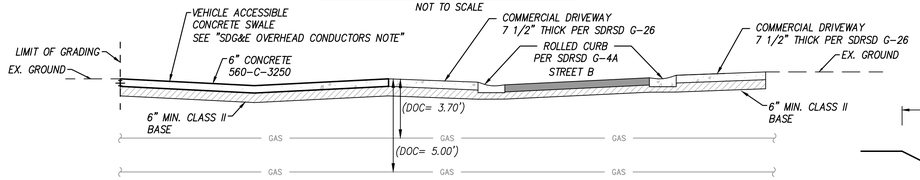
SECTION E-E: SEE SHEET 11

NOT TO SCALE



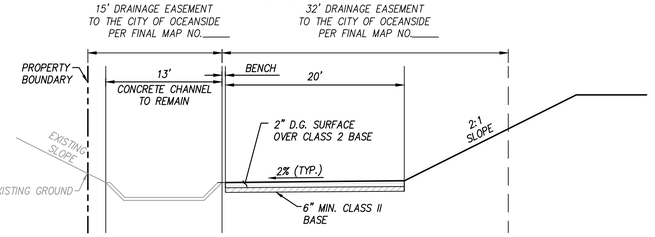
SECTION F-F: SEE SHEET 11

NOT TO SCALE



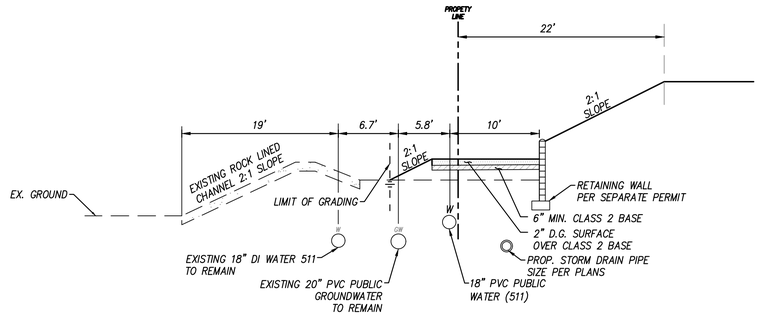
STREET B SECTION G-G: SEE SHEETS 12 AND 13

NOT TO SCALE



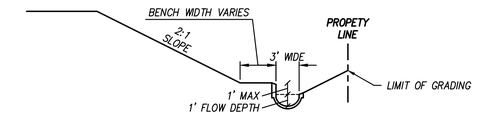
SECTION H-H: SEE SHEET 14

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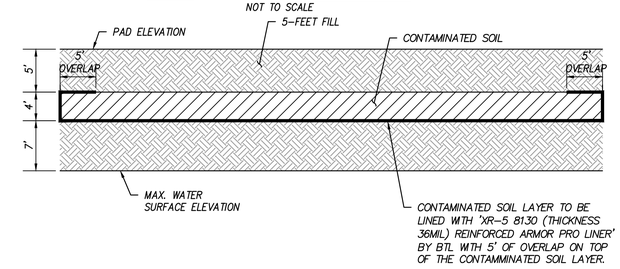
SECTION I-I: SEE SHEET 15

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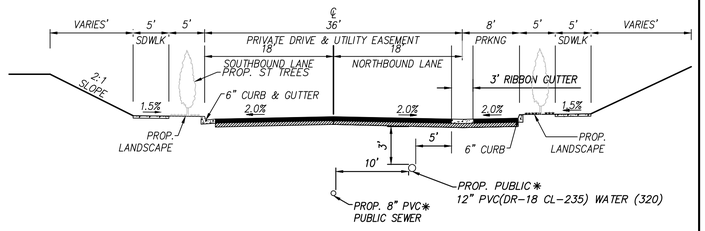
SECTION J-J: SEE SHEET 15

NOT TO SCALE



SECTION K-K SEE SHEET 13

NOT TO SCALE



SECTION L-L SEE SHEET 16

NOT TO SCALE

PAVING SECTIONS NOTE:

1.) THE TOP 12 INCHES OF ALL SUBGRADE AREAS BENEATH CURBS, GUTTERS, AND DRIVEWAY APPROACHES SHALL BE SCARIFIED AND COMPACTED TO 95% RELATIVE COMPACTION. ONLY 90% RELATIVE COMPACTION WILL BE REQUIRED FOR THE SUBGRADE MATERAILS BENEATH SIDEWALK.

2.) 6" MIN CLASS II BASE SHALL BE USED BENEATH CURBS, GUTTES, AND DRIVEWAYS ACHIEVE 95% RELATIVE COMPACTION.

3.) GEOTECHNICAL ENGINEER RECCOMENDATIONS FOR PAVEMENT SECTIONS, CURBS, GUTTERS, AND DRIVEWAY OR SUBGRADE SHALL BE FOLLOWED AS DIRECTED ONCE APPROVED BY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT.

FIRE LANE NOTE:

THE NUMBER, PLACEMENT AND WORDING FOR ALL FIRE LANE SIGNS AND/OR RED CURBS SHALL BE AS REQUIRED BY CA. VEHICLE CODE, SECTION 22500.L, 22658 AND OCEANSIDE FIRE DEPARTMENT STANDARDS.

1.) 28 FEET ROAD WIDTH – NO PARKING ON EITHER SIDE OF ROAD
2.) 32 FEET ROAD WIDTH – PARKING ON ONE SIDE OF THE ROAD
3.) 36 FEET ROAD WIDTH – PARKING ON BOTH SIDES OF THE ROAD
4.) ALL TURNAROUNDS MEETING MINIMUM DIMENSIONS-NO PARKING PERMITTED IN ANY AREA OF TURNAROUND

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Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
19		

GRADING DETAILS

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

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NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 20

CITY OF OCEANSIDE ENGINEERING DIVISION

50 SHEETS

GRADING DETAILS

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

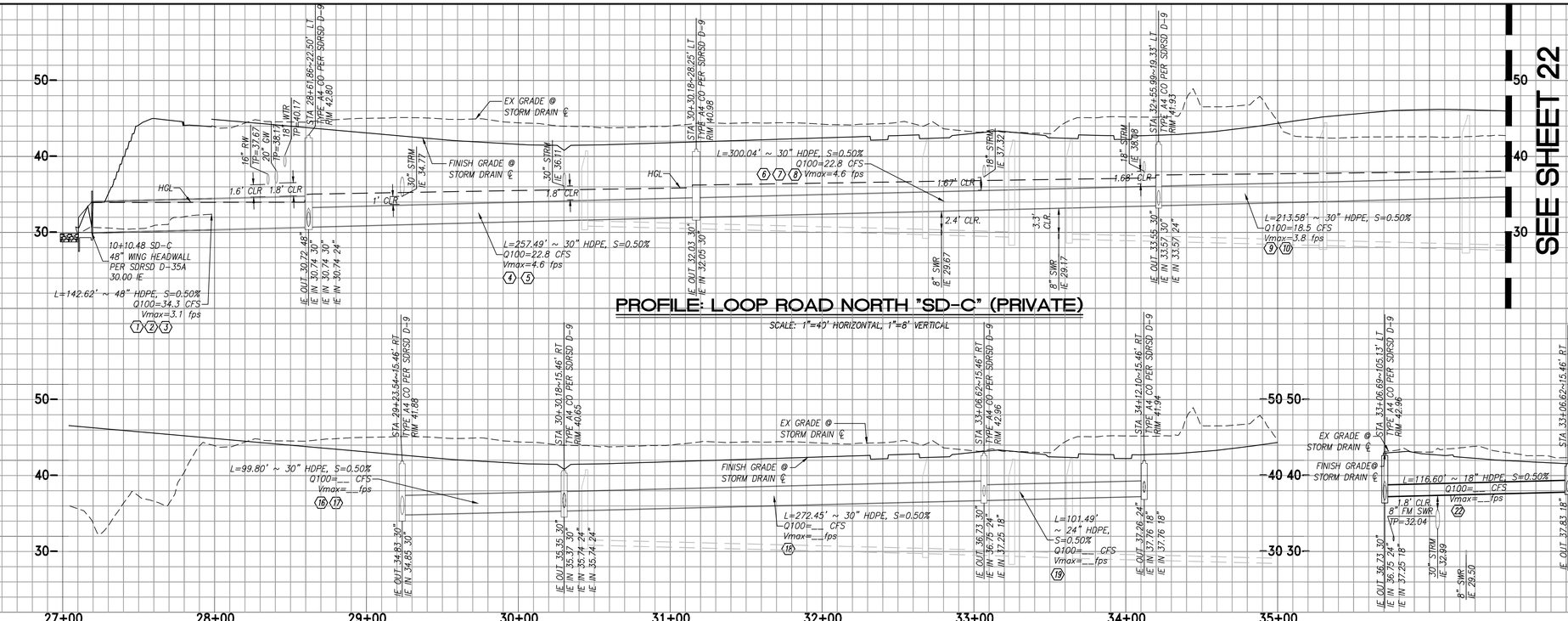
MARINA N. WURST R.C.E. C67517 DATE

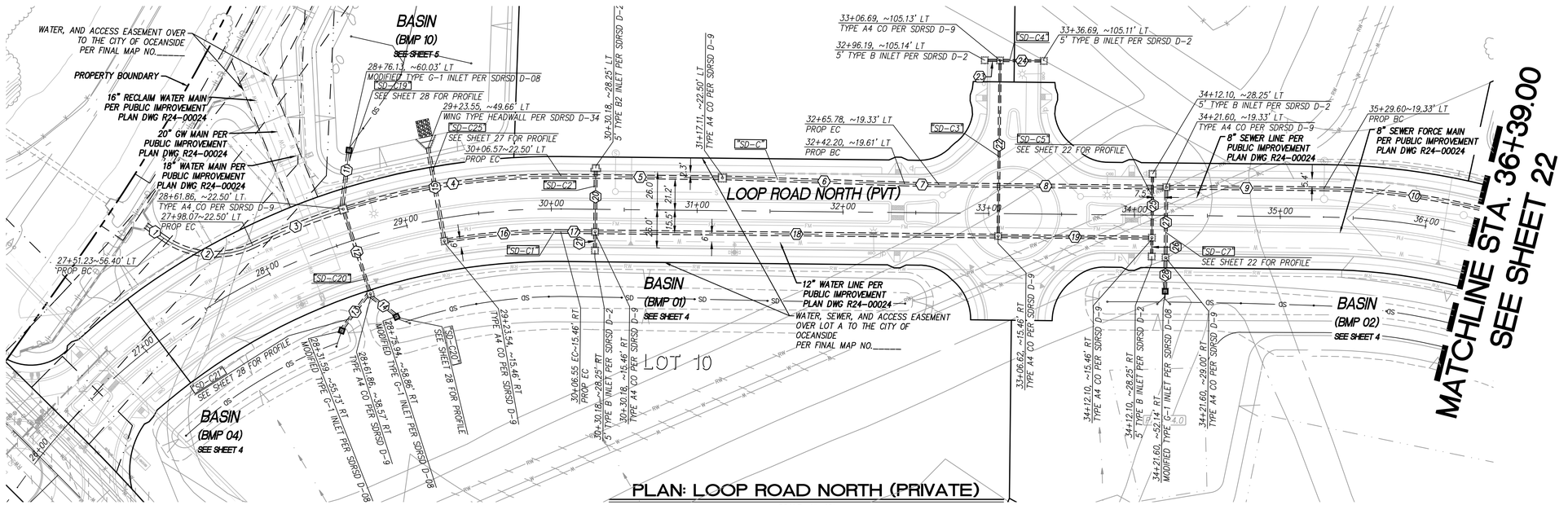
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Date:

PLAN NUMBER G24-00022

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STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 50°40'24" W	--	14.96'	PRIVATE 48" HDPE
2	Δ=61°15'55"	60.00'	64.16'	PRIVATE 48" HDPE
3	Δ=07°49'06"	472.50'	64.48'	PRIVATE 48" HDPE
4	Δ=18°07'20"	472.50'	149.45'	PRIVATE 30" HDPE
5	N 85°23'39" W	--	108.03'	PRIVATE 30" HDPE
6	N 84°02'34" W	--	134.42'	PRIVATE 30" HDPE
7	Δ=01°21'05"	1000.00'	23.59'	PRIVATE 30" HDPE
8	N 85°23'39" W	--	161.61'	PRIVATE 30" HDPE
9	N 85°23'39" W	--	106.00'	PRIVATE 30" HDPE
10	Δ=15°19'26"	469.50'	125.57'	PRIVATE 30" HDPE
11	N 11°07'41" E	--	36.89'	PRIVATE 30" HDPE
12	N 13°49'03" W	--	56.57'	PRIVATE 24" HDPE
13	N 40°39'17" E	--	29.04'	PRIVATE 24" HDPE
14	N 49°07'55" W	--	20.87'	PRIVATE 24" HDPE
15	N 05°57'44" W	--	62.62'	PRIVATE 30" HDPE
16	Δ=10°18'22"	434.54'	78.16'	PRIVATE 30" HDPE
17	N 85°23'39" W	--	21.63'	PRIVATE 30" HDPE
18	N 85°23'39" W	--	272.44'	PRIVATE 30" HDPE
19	N 85°23'39" W	--	101.48'	PRIVATE 24" HDPE
20	N 04°36'21" E	--	35.25'	PRIVATE 24" HDPE
21	N 04°36'21" E	--	13.25'	PRIVATE 24" HDPE
22	N 04°38'36" E	--	112.13'	PRIVATE 18" HDPE
23	N 85°21'24" W	--	6.50'	PRIVATE 18" HDPE
24	N 85°21'24" W	--	26.00'	PRIVATE 18" HDPE
25	N 04°36'21" E	--	35.25'	PRIVATE 18" HDPE
26	N 04°36'21" E	--	13.25'	PRIVATE 18" HDPE
27	N 04°36'21" E	--	44.33'	PRIVATE 24" HDPE
28	N 04°36'21" E	--	19.68'	PRIVATE 24" HDPE

WDID NO. 9 37C399692 FILE NO.

Underground Service Alert
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120
SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

Bowman
Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

SHEET 21 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

STORM DRAIN PLAN FOR:
OCEAN KAMP-OCEANSIDE

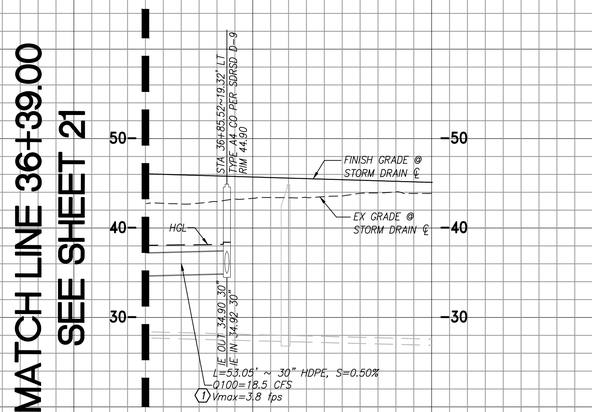
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

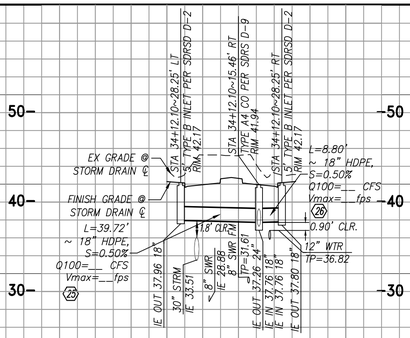
PLAN NUMBER G24-00022

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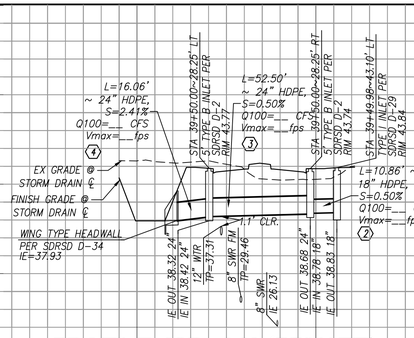
PROFILE: LOOP ROAD NORTH "SD-C" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



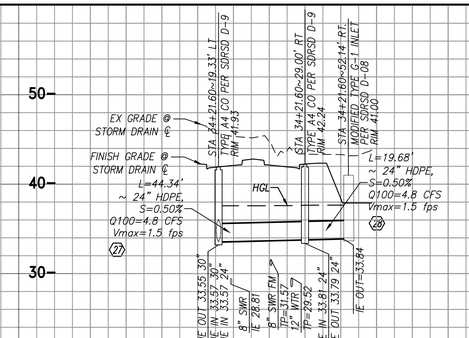
PROFILE: "SD-C5" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



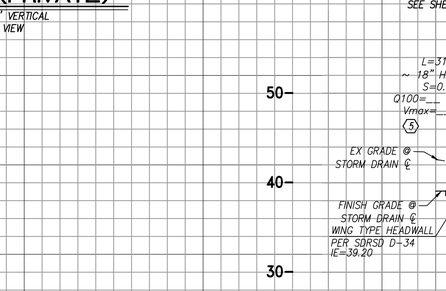
PROFILE: "SD-C6" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



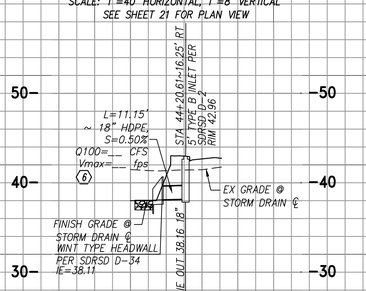
PROFILE: "SD-C7" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



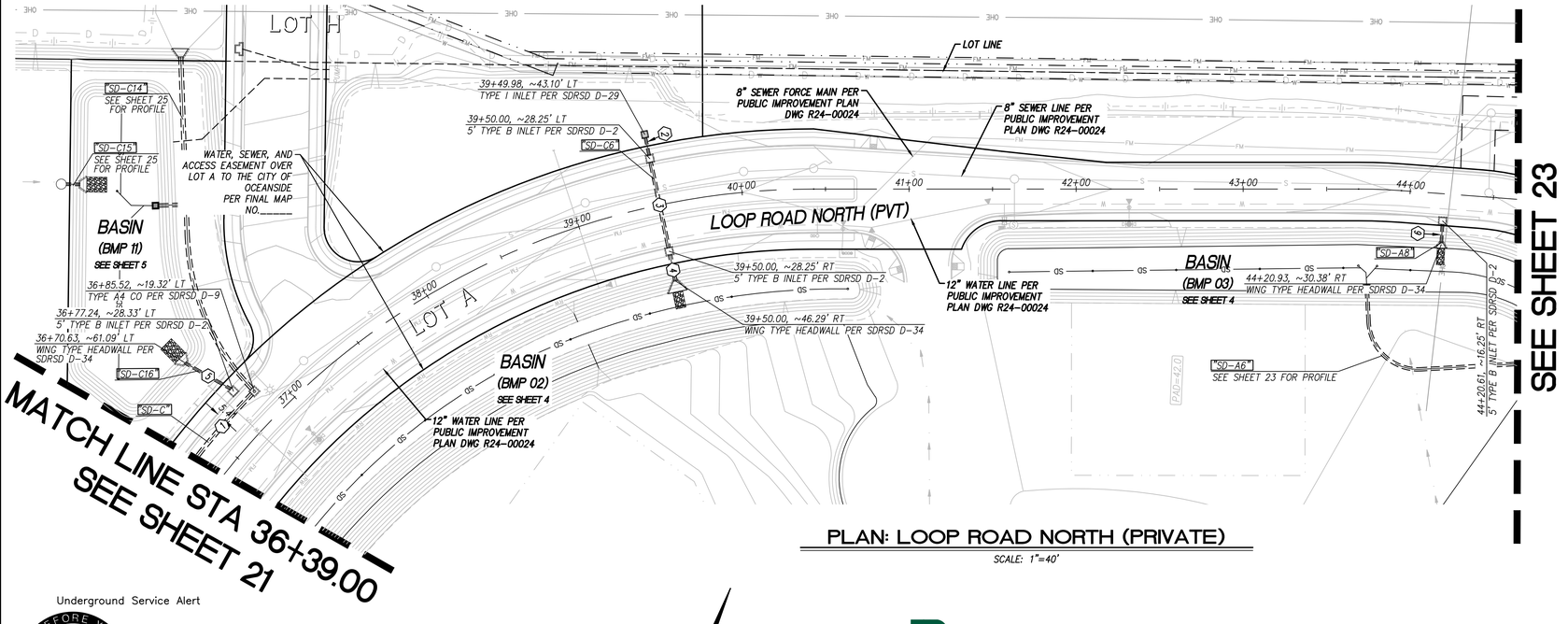
PROFILE: "SD-C16" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-A8" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PLAN: LOOP ROAD NORTH (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	Δ=06°28'28"	469.50'	53.05'	PRIVATE 30" HDPE
2	N 58°02'40" E	--	10.86'	PRIVATE 24" HDPE
3	N 58°02'40" E	--	52.50'	PRIVATE 24" HDPE
4	N 58°07'29" E	--	16.06'	PRIVATE 24" HDPE
5	N 09°31'29" E	--	31.59'	PRIVATE 18" HDPE
6	N 73°08'58" E	--	11.15'	PRIVATE 18" HDPE

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120
SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY: 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 22	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

STORM DRAIN PLAN FOR:
OCEAN KAMP-OCEANSIDE

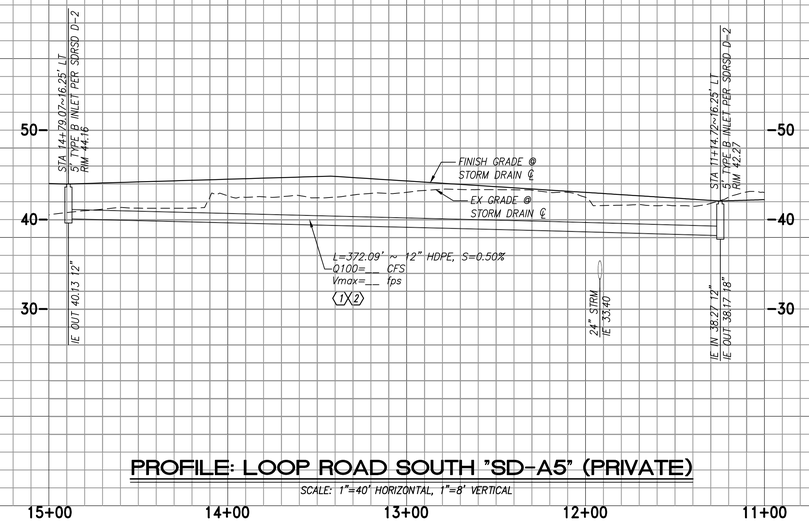
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

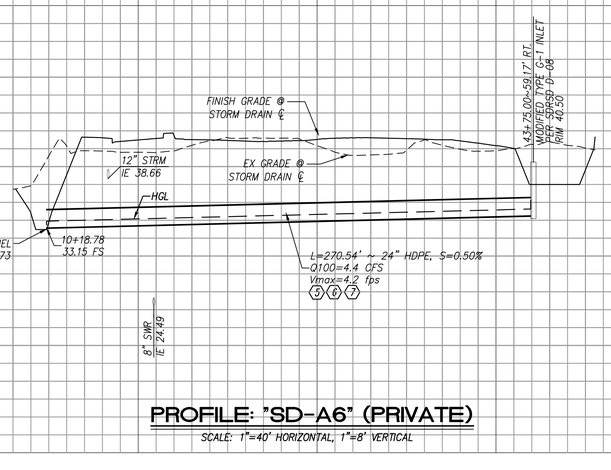
PLAN NUMBER G24-00022

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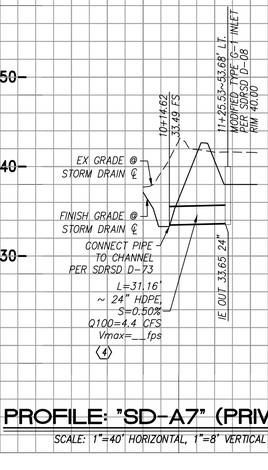
PROFILE: LOOP ROAD SOUTH "SD-A5" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



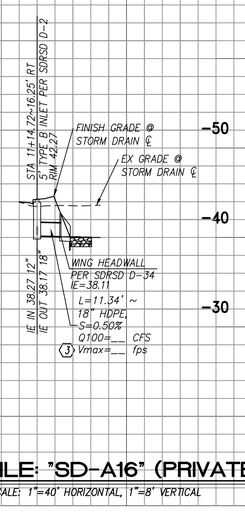
PROFILE: "SD-A6" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-A7" (PRIVATE)

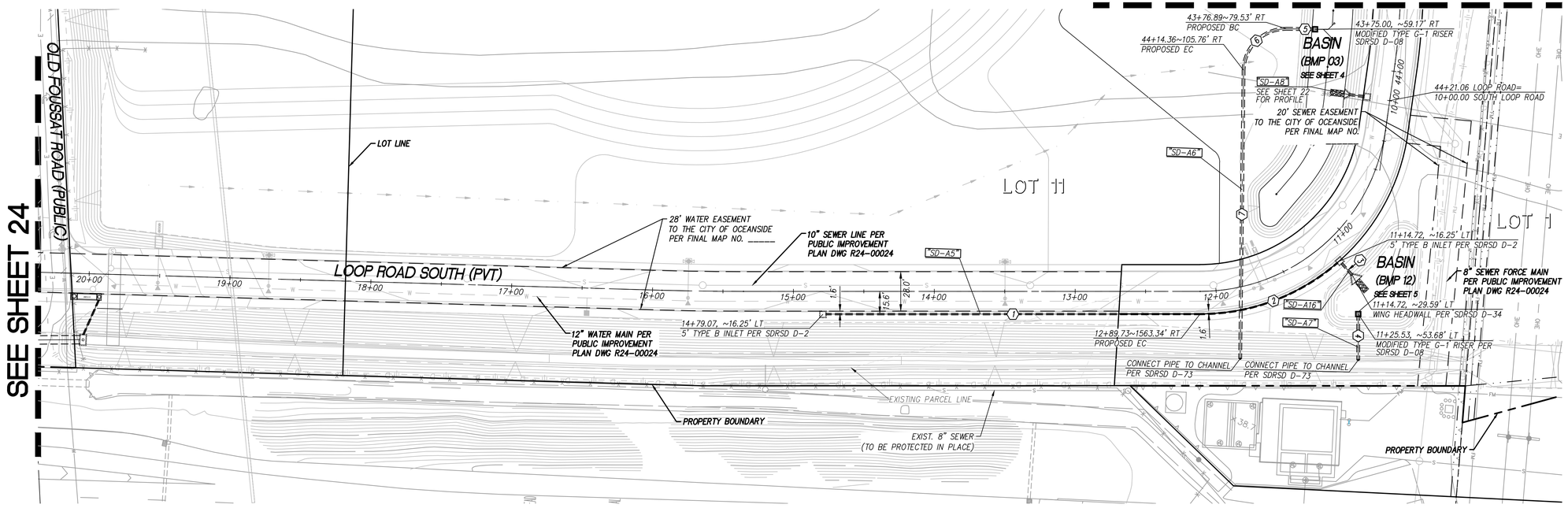
SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-A16" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

SEE SHEET 22



PRIVATE STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 66°03'38" E	--	265.67'	PRIVATE 12" HDPE
2	Δ=40°52'50"	149.13'	106.40'	PRIVATE 12" HDPE
3	N 65°34'30" W	--	11.34'	PRIVATE 18" HDPE
4	N 23°55'03" W	--	31.16'	PRIVATE 30" HDPE
5	N 66°52'37" E	--	26.47'	PRIVATE 24" HDPE
6	Δ=89°46'02"	29.92'	46.88'	PRIVATE 24" HDPE
7	N 23°15'22" W	--	204.70'	PRIVATE 24" HDPE

PLAN: LOOP ROAD SOUTH (PRIVATE)

SCALE: 1"=40'

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER — MARINA NATASHA WURST — No. C67517 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Bowman

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701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
23		

STORM DRAIN PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

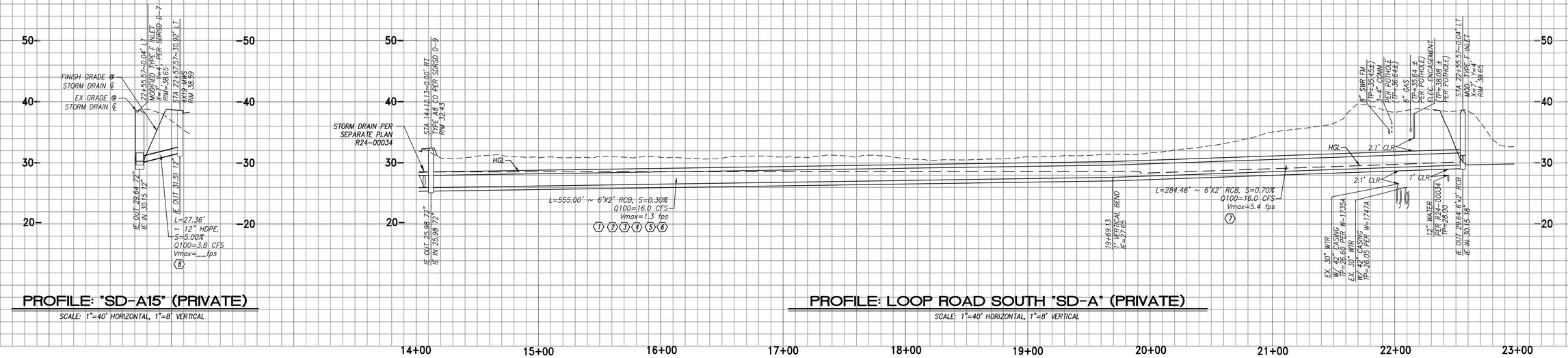
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK: MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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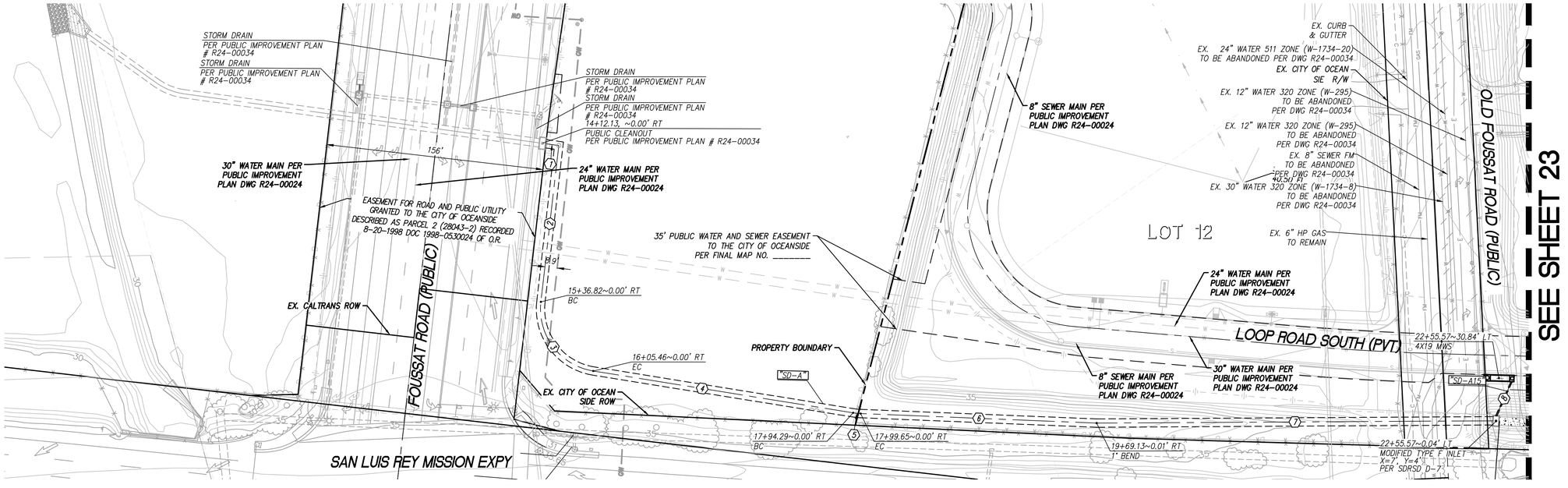


PROFILE: "SD-A15" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

PROFILE: LOOP ROAD SOUTH "SD-A" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PLAN: LOOP ROAD SOUTH (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 73°55'41" E	--	9.86'	PRIVATE 6'X2' RCB
2	N 17°23'48" W	--	112.83'	PRIVATE 6'X2' RCB
3	Δ=87°23'45"	45.00'	68.64'	PRIVATE 6'X2' RCB
4	N 75°12'27" E	--	188.83'	PRIVATE 6'X2' RCB
5	Δ=06°49'31"	45.00'	5.36'	PRIVATE 6'X2' RCB
6	N 68°22'56" E	--	169.48'	PRIVATE 6'X2' RCB
7	N 65°44'15" E	--	284.46'	PRIVATE 6'X2' RCB
8	N 00°05'26" E	--	27.36'	PRIVATE 18" HDPE

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 24	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

STORM DRAIN PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

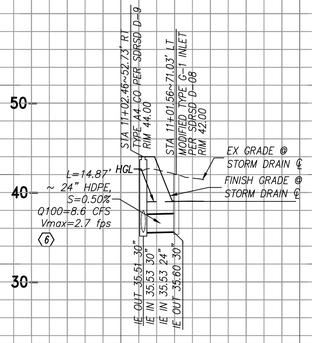
ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

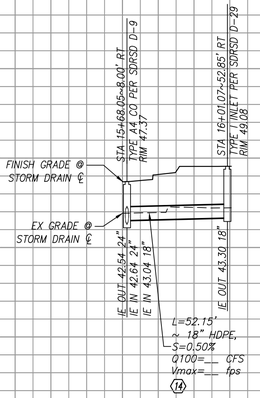
PLAN NUMBER G24-00022

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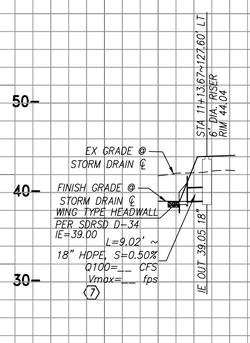
PROFILE: "SD-C18" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



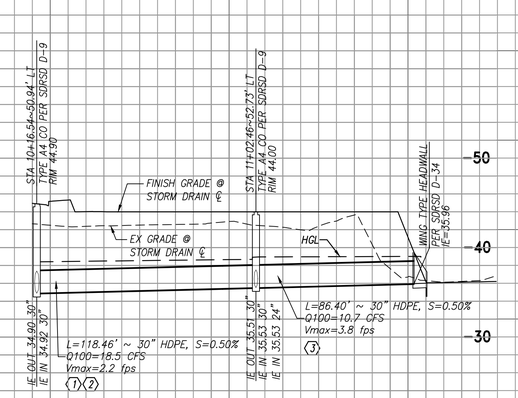
PROFILE: "SD-C17" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



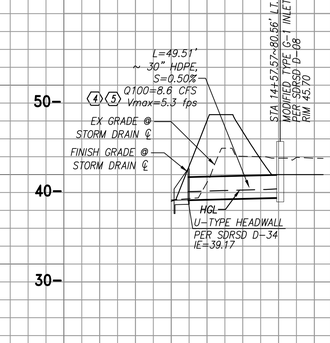
PROFILE: "SD-C15" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



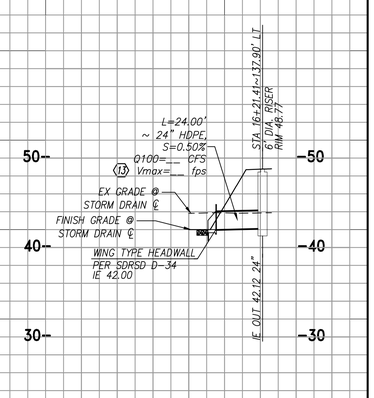
PROFILE: "SD-C14" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



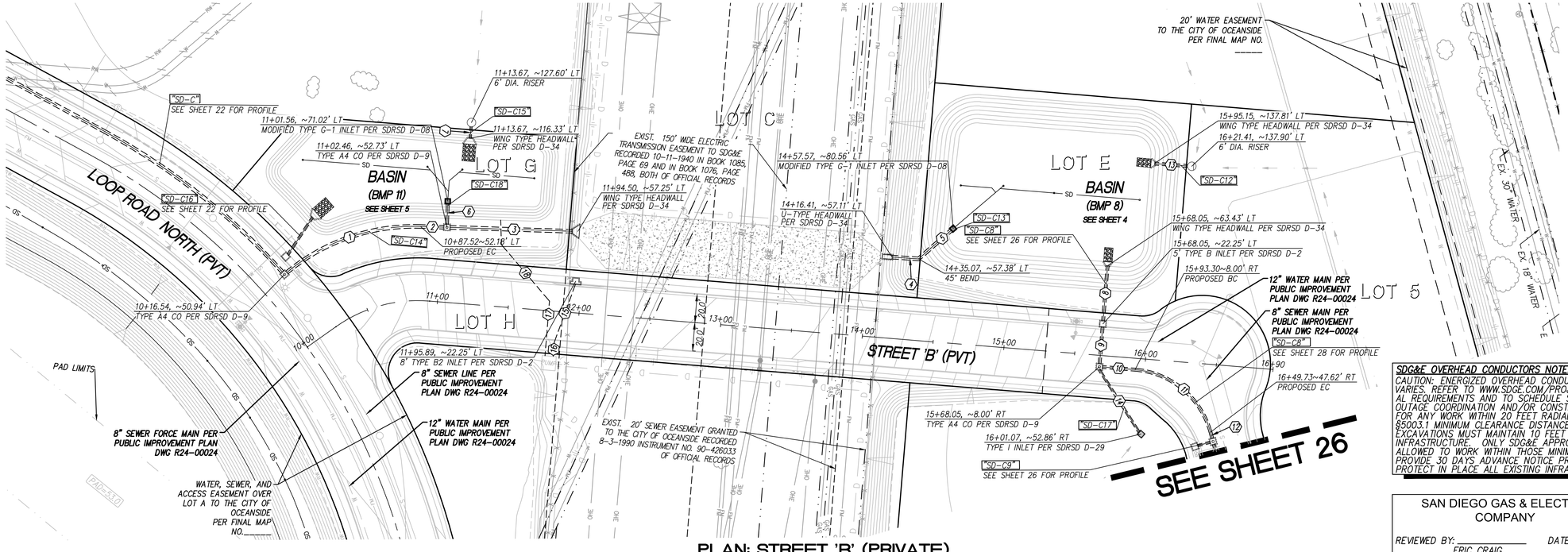
PROFILE: "SD-C13" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-C12" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PLAN: STREET 'B' (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	Δ=41°41'47"	140.00'	101.88'	PRIVATE 30" HDPE
2	N 67°53'00" E	--	16.56'	PRIVATE 30" HDPE
3	N 67°53'00" E	--	86.40'	PRIVATE 30" HDPE
4	N 69°51'01" E	--	18.66'	PRIVATE 18" HDPE
5	N 24°51'01" E	--	30.85'	PRIVATE 18" HDPE
6	N 22°07'00" W	--	14.86'	PRIVATE 24" HDPE
7	N 19°18'19" W	--	9.02'	PRIVATE 18" HDPE
8	N 19°18'19" W	--	39.18'	PRIVATE 24" HDPE
9	N 19°18'19" W	--	26.25'	PRIVATE 24" HDPE
10	N 70°41'41" E	--	23.27'	PRIVATE 24" HDPE
11	Δ=70°08'23"	60.00'	73.45'	PRIVATE 24" HDPE
12	N 39°09'56" W	--	4.71'	PRIVATE 24" HDPE
13	N 70°20'59" E	--	24.00'	PRIVATE 24" HDPE
14	N 56°26'30" W	--	52.15'	PRIVATE 18" HDPE
15	N 03°54'04" W	--	43.63'	PRIVATE 8" HDPE
16	N 19°18'19" W	--	9.98'	PRIVATE 8" HDPE
17	N 19°17'55" W	--	38.56'	PRIVATE 8" HDPE
18	N 64°17'55" W	--	52.18'	PRIVATE 8" HDPE

SDG&E OVERHEAD CONDUCTORS NOTE:

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, 230KV & 69KV ELEVATION VARIES. REFER TO WWW.SDGE.COM/PROJECT-RESOURCES FOR ADDITION AL REQUIREMENTS AND TO SCHEDULE STANDBY LINEMAN SAFETY WATCH, OUTAGE COORDINATION AND/OR CONSTRUCTION MEANS & METHOD'S REVIEW FOR ANY WORK WITHIN 20 FEET RADIAL CLEARANCE OR WITHIN CALOSHA §5003.1 MINIMUM CLEARANCE DISTANCES FOR WORKERS & EQUIPMENT. EXCAVATIONS MUST MAINTAIN 10 FEET RADIAL CLEARANCE FROM EXISTING INFRASTRUCTURE. ONLY SDG&E APPROVED QUALIFIED ELECTRICAL WORKER IS ALLOWED TO WORK WITHIN THOSE MINIMUM CLEARANCE DISTANCES. PROVIDE 30 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING INFRASTRUCTURE.

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
Bowman.com

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY:

PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'VD	DATE

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY:_____ DATE:_____
ERIC CRAIG
PRINCIPAL LAND AGENT

VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
25		

STORM DRAIN PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

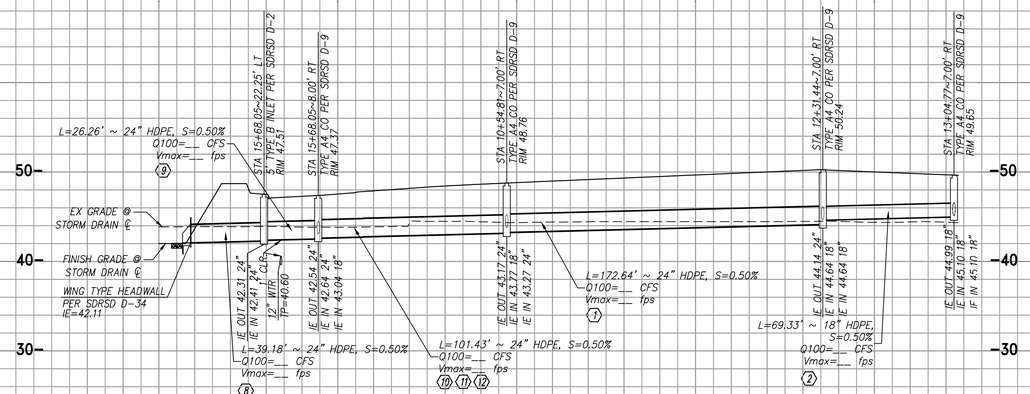
MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

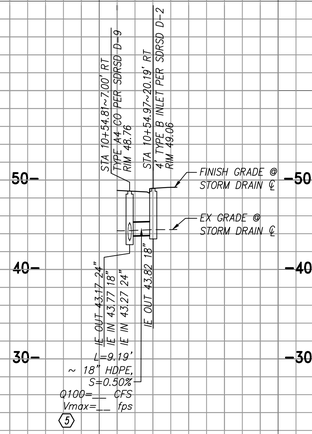
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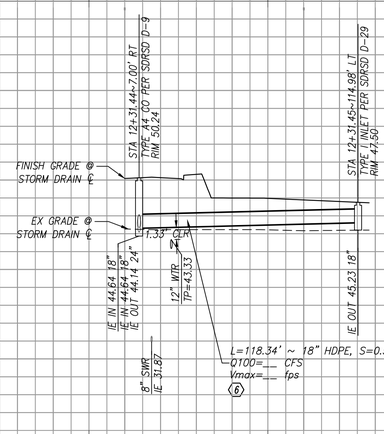
PROFILE: OCEAN POINTE ROAD "SD-C8" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 25 FOR PLAN VIEW (PORTION: 8-12)



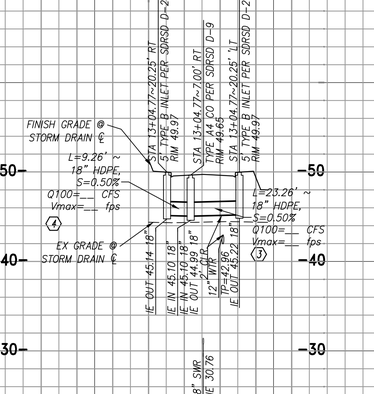
PROFILE: "SD-C9" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



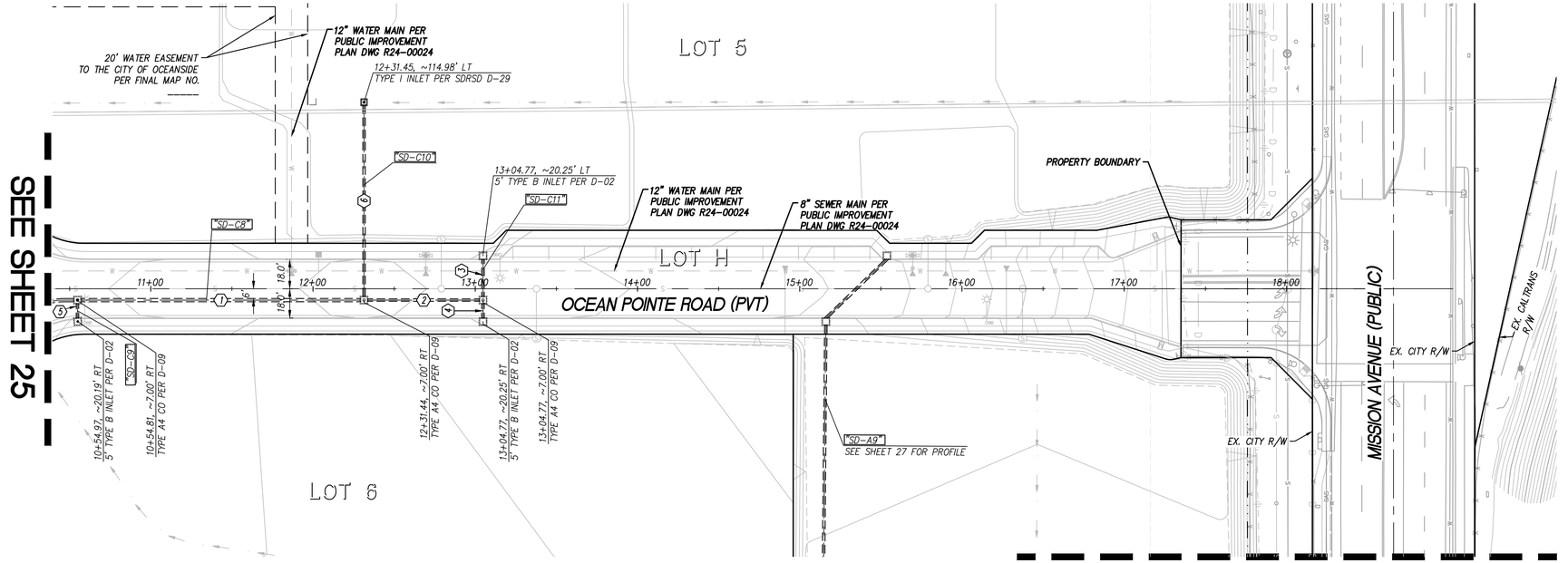
PROFILE: "SD-C10" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-C11" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PLAN: OCEAN POINTE ROAD (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 39°09'56" W	--	172.63'	PRIVATE 24" HDPE
2	N 39°09'56" W	--	69.33'	PRIVATE 18" HDPE
3	N 50°50'04" E	--	23.25'	PRIVATE 18" HDPE
4	N 50°50'04" E	--	9.25'	PRIVATE 18" HDPE
5	N 50°50'04" E	--	9.19'	PRIVATE 18" HDPE
6	N 50°50'04" E	--	118.33'	PRIVATE 18" HDPE

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120
SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman
Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

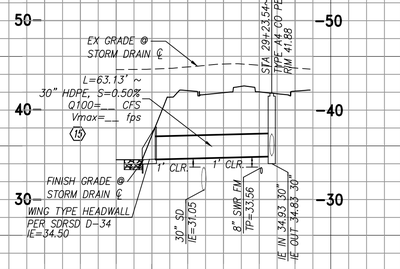
SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
26		

STORM DRAIN PLAN FOR:
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

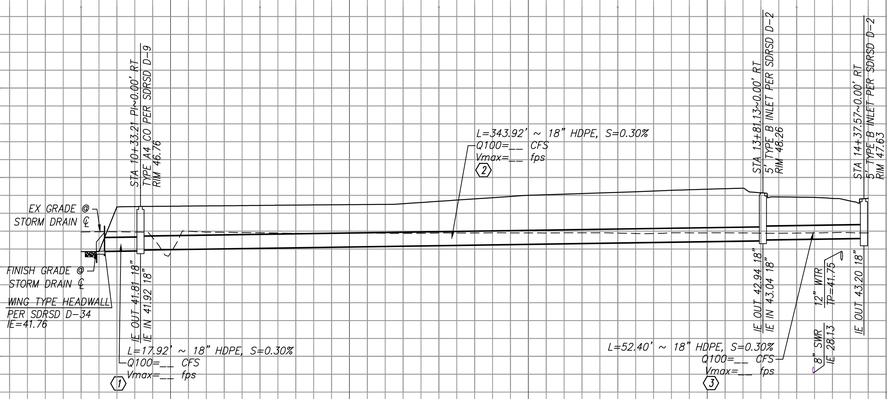
ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE
Checked By: Date:
PLAN NUMBER G24-00022

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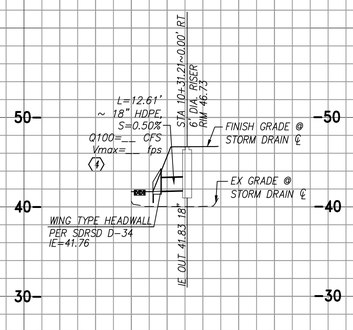
PROFILE: "SD-C25" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



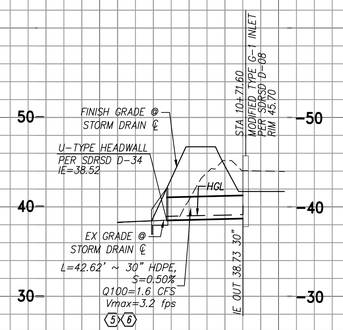
PROFILE: LOOP ROAD NORTH "SD-A9" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



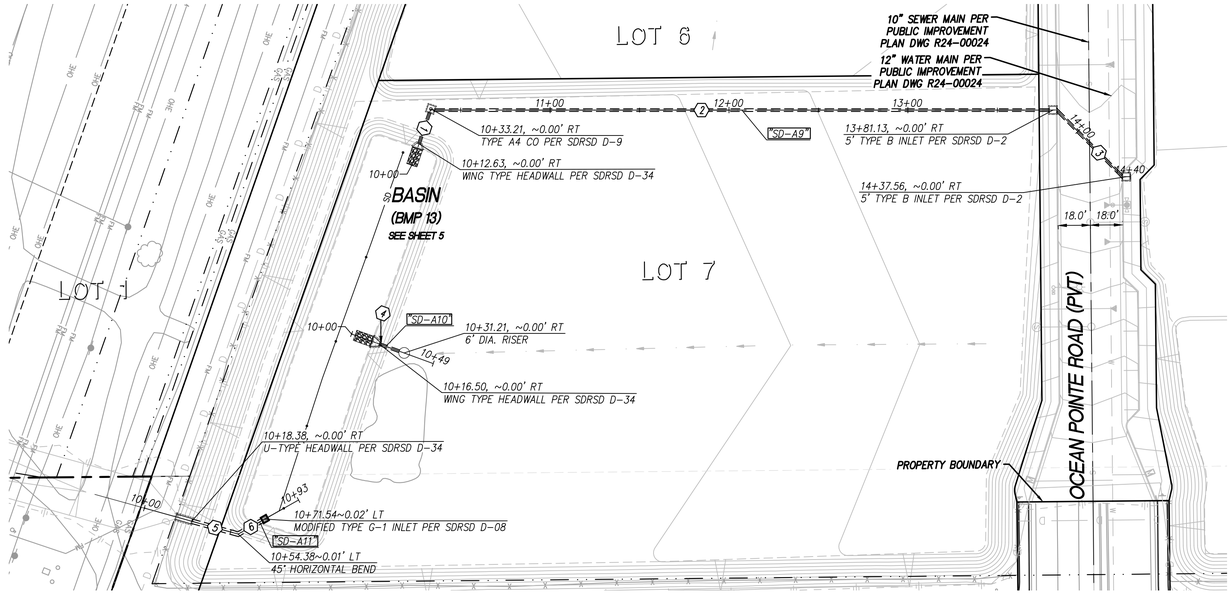
PROFILE: "SD-A10" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PROFILE: "SD-A11" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



PLAN: STORM DRAIN (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 19°57'33" W	--	17.92'	PRIVATE 18" HDPE
2	N 51°23'06" E	--	343.91'	PRIVATE 18" HDPE
3	N 83°16'34" W	--	52.40'	PRIVATE 18" HDPE
4	N 71°14'50" E	--	12.61'	PRIVATE 18" HDPE
5	N 66°52'39" E	--	26.93'	PRIVATE 30" HDPE
6	N 21°52'39" E	--	15.69'	PRIVATE 30" HDPE

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120
SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman
Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY:	PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

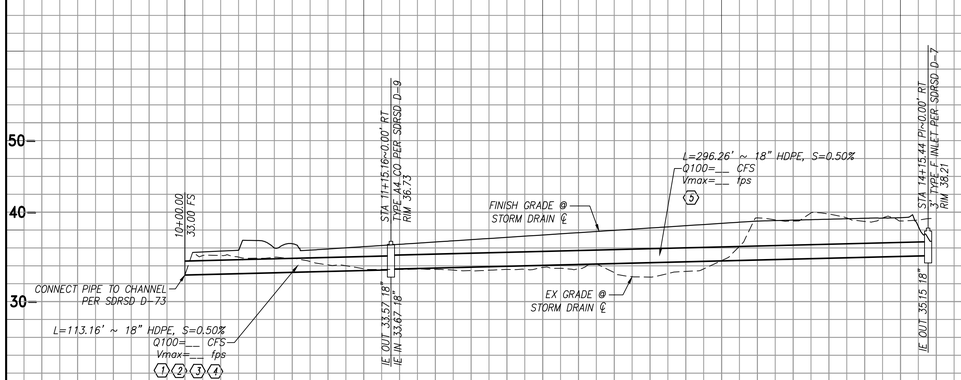
SHEET 27	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

STORM DRAIN PLAN FOR:
OCEAN KAMP-OCEANSIDE

APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

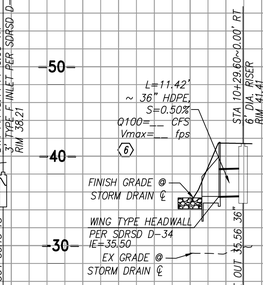
ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022

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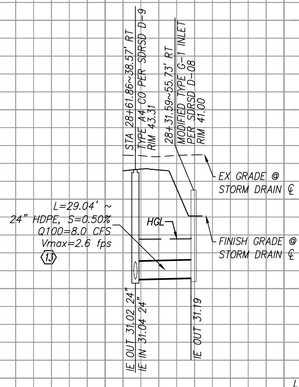
PROFILE: "SD-C23" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



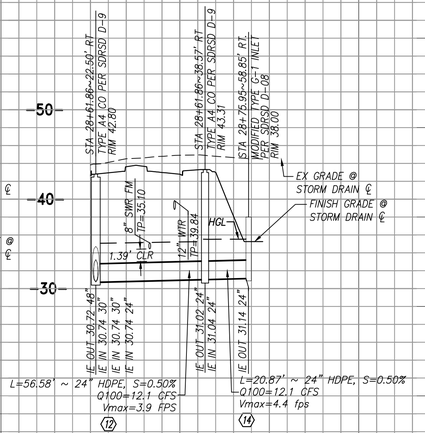
PROFILE: "SD-C22" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



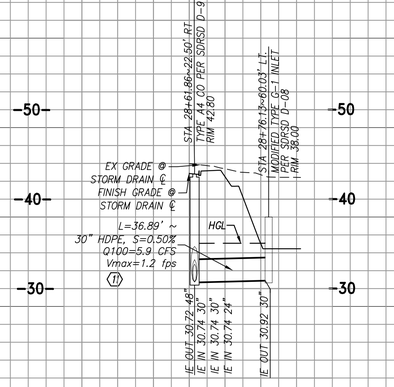
PROFILE: "SD-C21" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



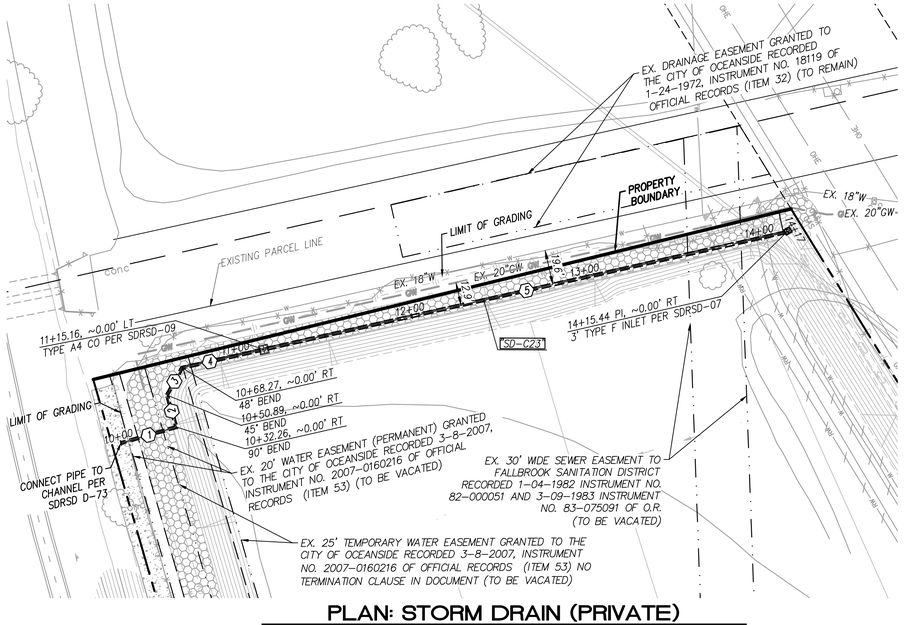
PROFILE: "SD-C20" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



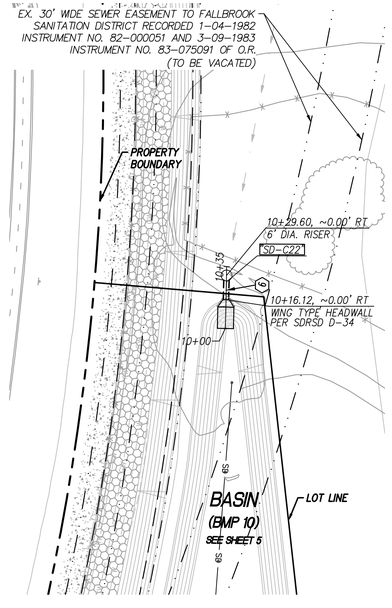
PROFILE: "SD-C19" (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL
SEE SHEET 21 FOR PLAN VIEW



PLAN: STORM DRAIN (PRIVATE)

SCALE: 1"=40'



PLAN: STORM DRAIN (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 86°10'23" E	--	32.26'	PRIVATE 18" HDPE
2	N 03°49'37" W	--	18.63'	PRIVATE 18" HDPE
3	N 41°10'23" E	--	17.38'	PRIVATE 18" HDPE
4	N 89°40'10" E	--	44.89'	PRIVATE 18" HDPE
5	N 89°40'10" E	--	296.26'	PRIVATE 18" HDPE
6	N 13°32'28" E	--	10.47'	PRIVATE 36" HDPE

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

0 20 40 80 120

SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101
Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
28		

STORM DRAIN PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

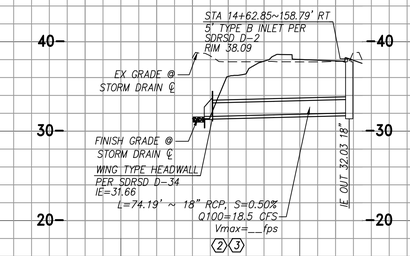
MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

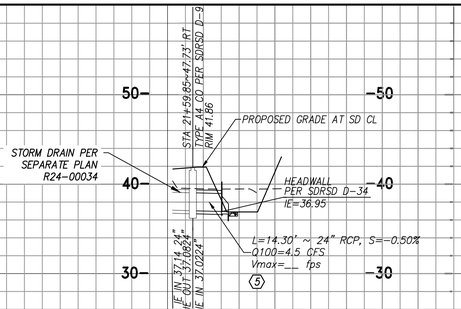
PLAN NUMBER G24-00022

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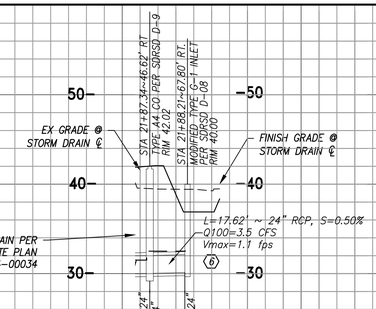
PROFILE: SD-A14 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



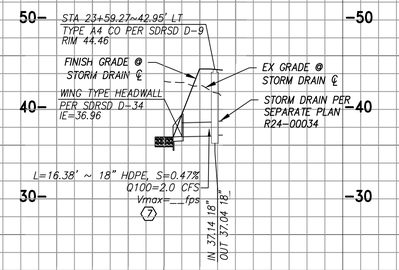
PROFILE: SD-B1 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



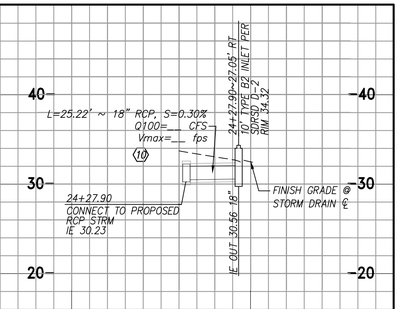
PROFILE: SD-B2 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



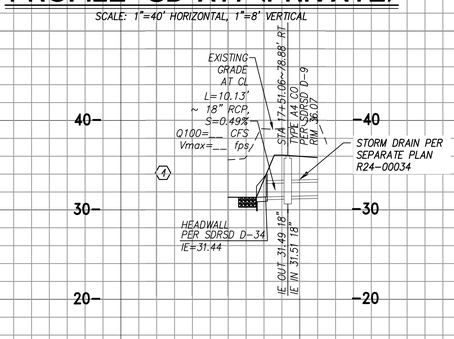
PROFILE: SD-B3 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



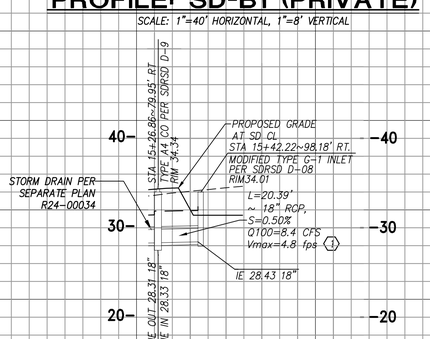
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SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



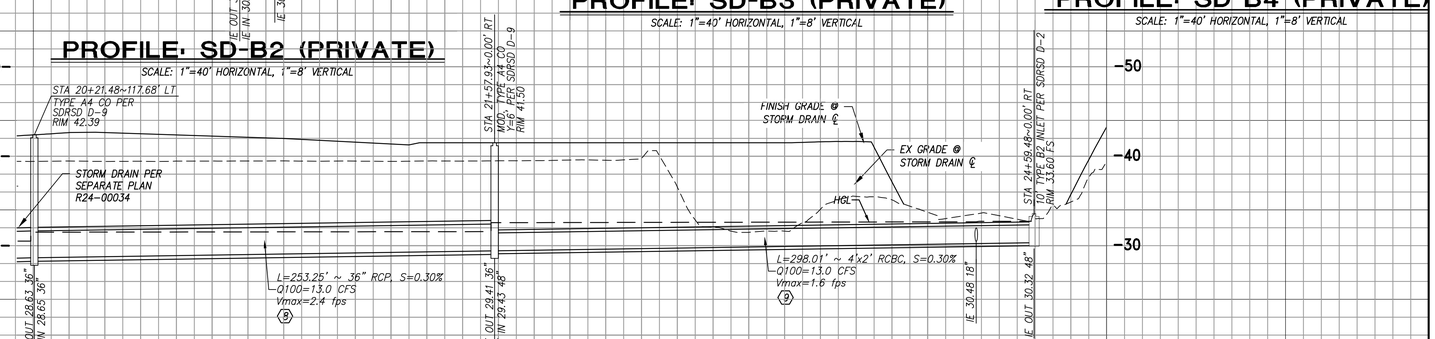
PROFILE: SD-A12 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



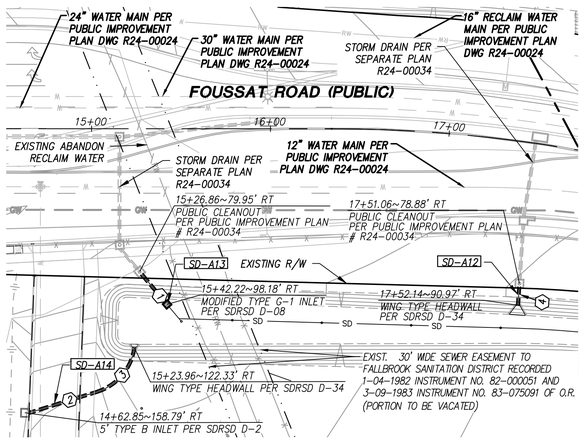
PROFILE: SD-A13 (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



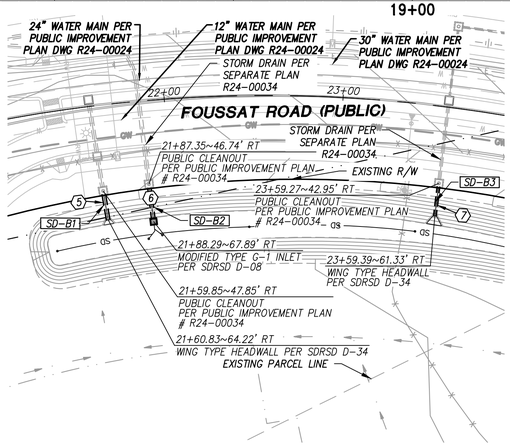
PROFILE: SD-B (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL



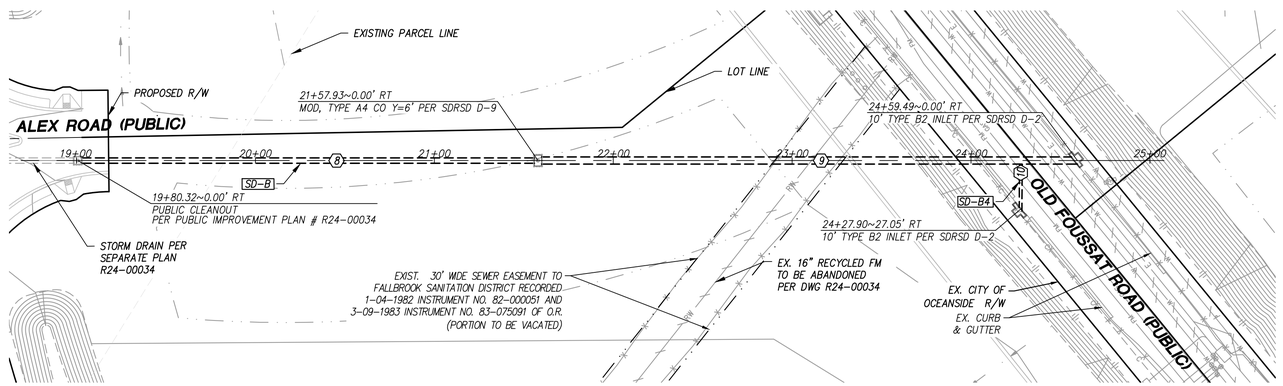
PLAN: SD-A12, SD-A13, SD-A14 (PRIVATE)

SCALE: 1"=40'



PLAN: SD-B1, SD-B2, SD-B3 (PRIVATE)

SCALE: 1"=40'



PLAN: SD-B, SD-B4 (PRIVATE)

SCALE: 1"=40'

PRIVATE STORM DRAIN DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 32°33'43" E	--	20.39'	PRIVATE 18" RCP
2	N 34°34'54" W	--	40.03'	PRIVATE 18" RCP
3	Δ=65°13'52"	30.00'	34.15'	PRIVATE 18" RCP
4	N 76°29'59" E	--	10.13'	PRIVATE 18" RCP
5	N 72°36'00" W	--	14.29'	PRIVATE 24" RCP
6	N 69°51'56" W	--	17.62'	PRIVATE 24" RCP
7	N 55°46'26" W	--	16.37'	PRIVATE 18" HDPE
8	N 77°27'57" W	--	253.25'	PRIVATE 36" RCP
9	N 77°27'57" W	--	298.00'	PRIVATE 4'X2' RCBC
10	N 12°32'03" E	--	25.22'	PRIVATE 18" RCP

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

40 20 0 40 80 120

SCALE: 1"=40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 29	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

STORM DRAIN PLAN FOR:

OCEAN KAMP—OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

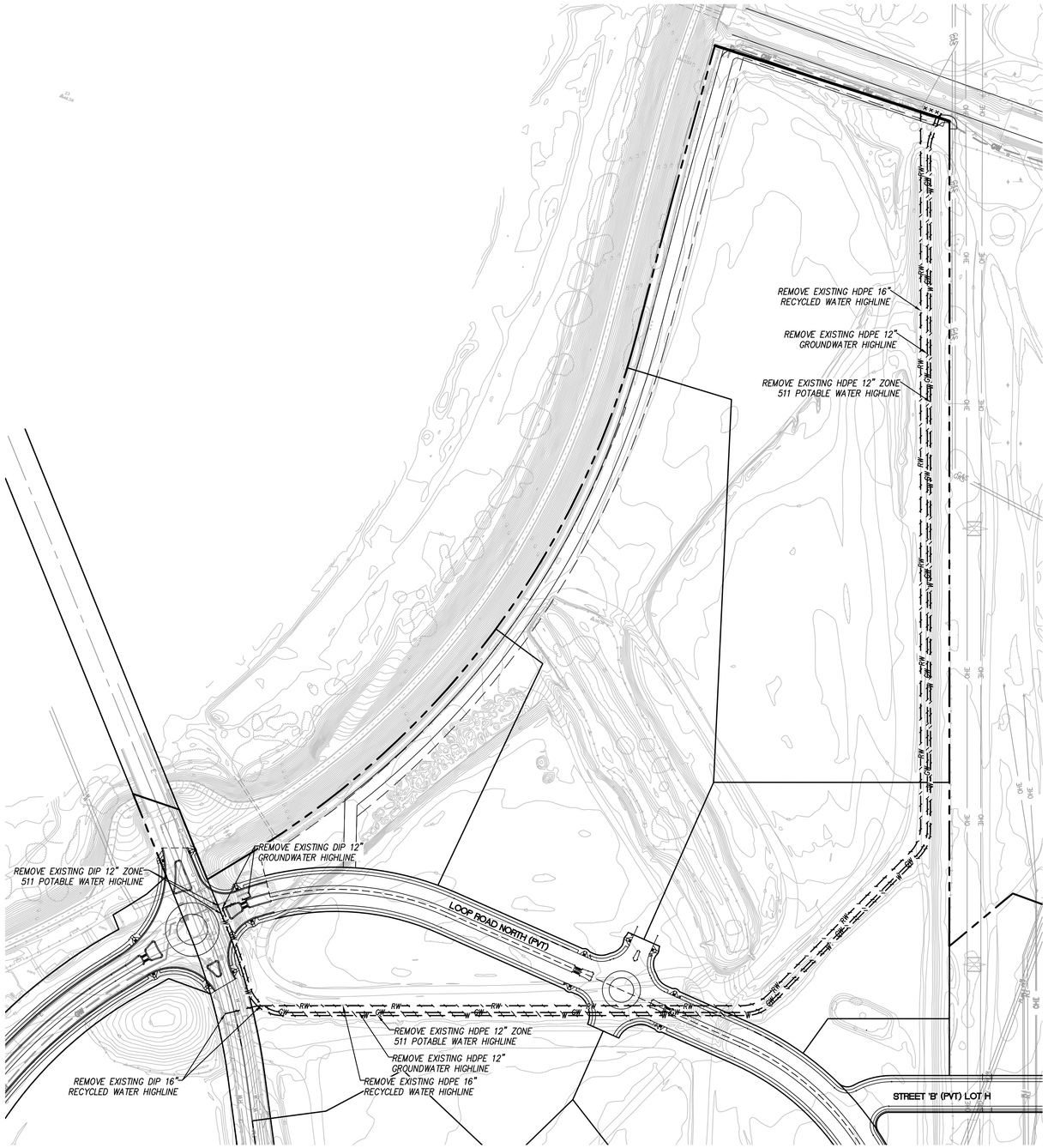
ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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RECYCLED WATER HIGHLINE REMOVAL				
SYMBOL	SIZE (IN)	MATERIAL	LENGTH (FT)	CONSTRUCTION DRAWING
RW	12	HDPE	2371	G19-0003
RW	12	DIP	60	G19-0003

POTABLE WATER HIGHLINE REMOVAL				
SYMBOL	SIZE (IN)	MATERIAL	LENGTH (FT)	CONSTRUCTION DRAWING
W	12	HDPE	2568	G19-0003
W	12	DIP	14	G19-0003

GROUND WATER HIGHLINE REMOVAL				
SYMBOL	SIZE (IN)	MATERIAL	LENGTH (FT)	CONSTRUCTION DRAWING
GW	16	HDPE	2555	G19-0003
GW	16	DIP	58	G19-0003

EXISTING HIGHLINE UTILITY REMOVALS

Underground Service Alert

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REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 30	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

HIGHLINE UTILITY REMOVALS PLAN FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

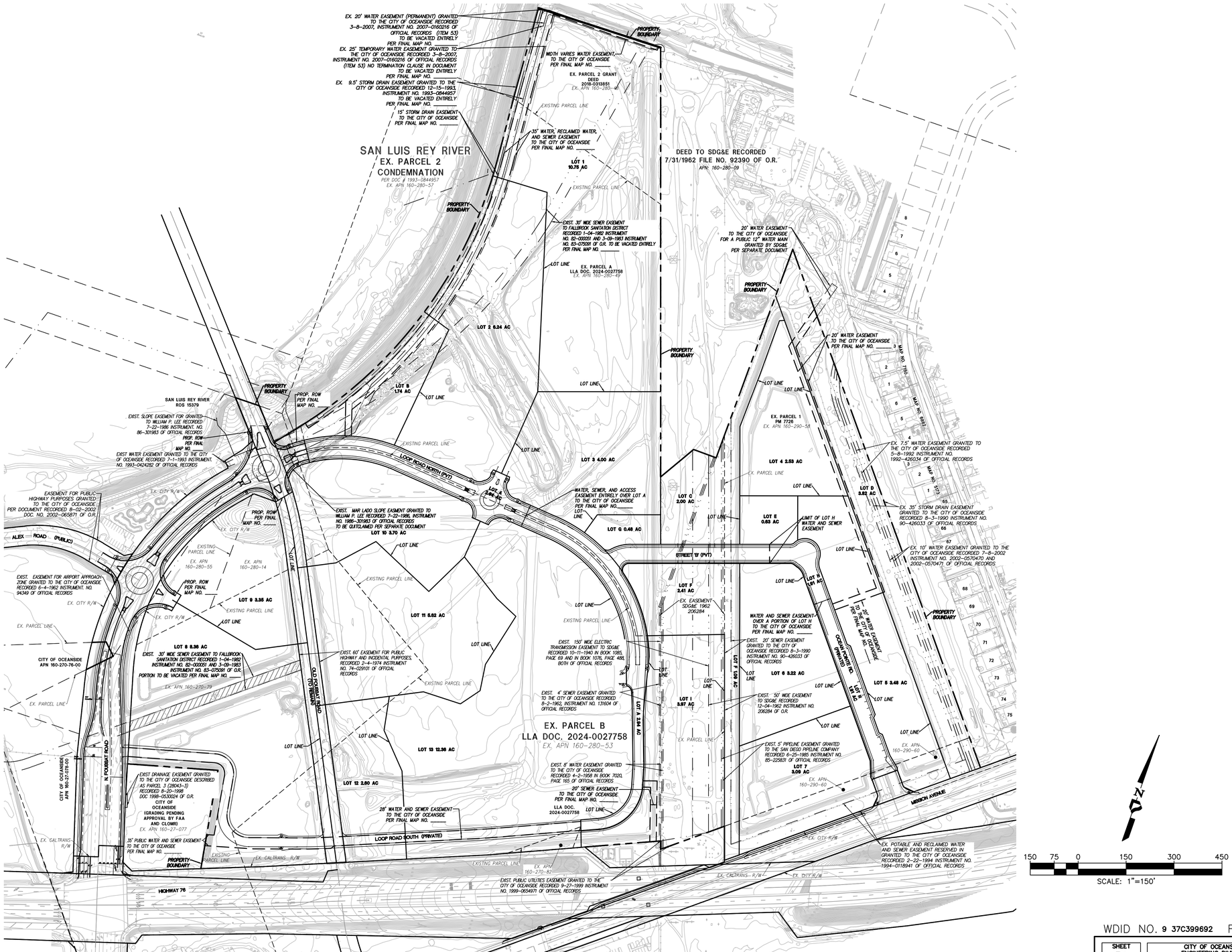
ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022



LOTS AND ENCUMBERANCE MAP

WDID NO. 9 37C399692 FILE NO.

Underground Service Alert

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TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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MARINA NATASHA WURST, R.C.E. C67517	DATE	REGISTRATION EXPIRES 6-30-27	DESIGNED BY:	PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FEET Datum: NAVD 88

SHEET 31	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

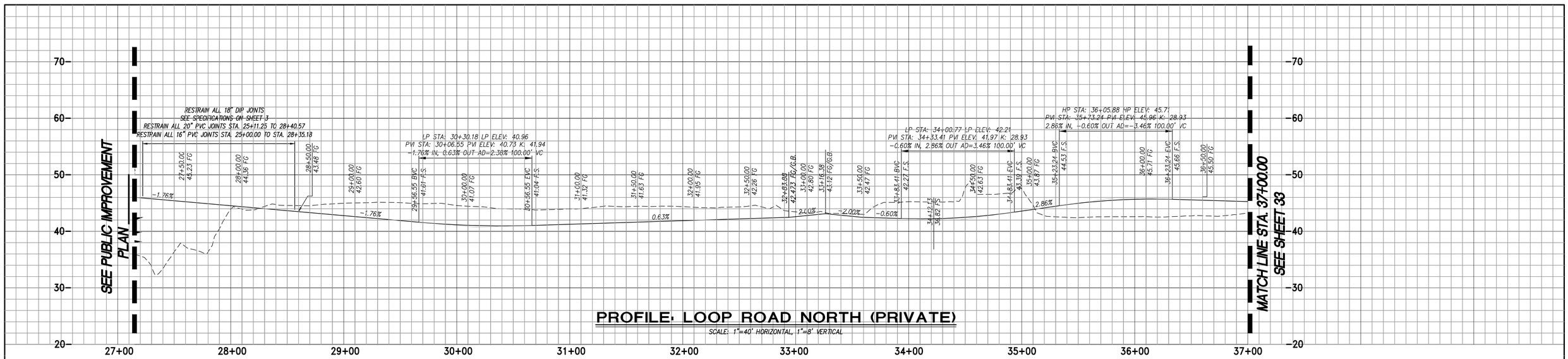
LOTS AND ENCUMBERANCES MAP FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK	Checked By:	PLAN NUMBER
MARINA N. WURST R.C.E. C67517 DATE	Date:	G24-00022

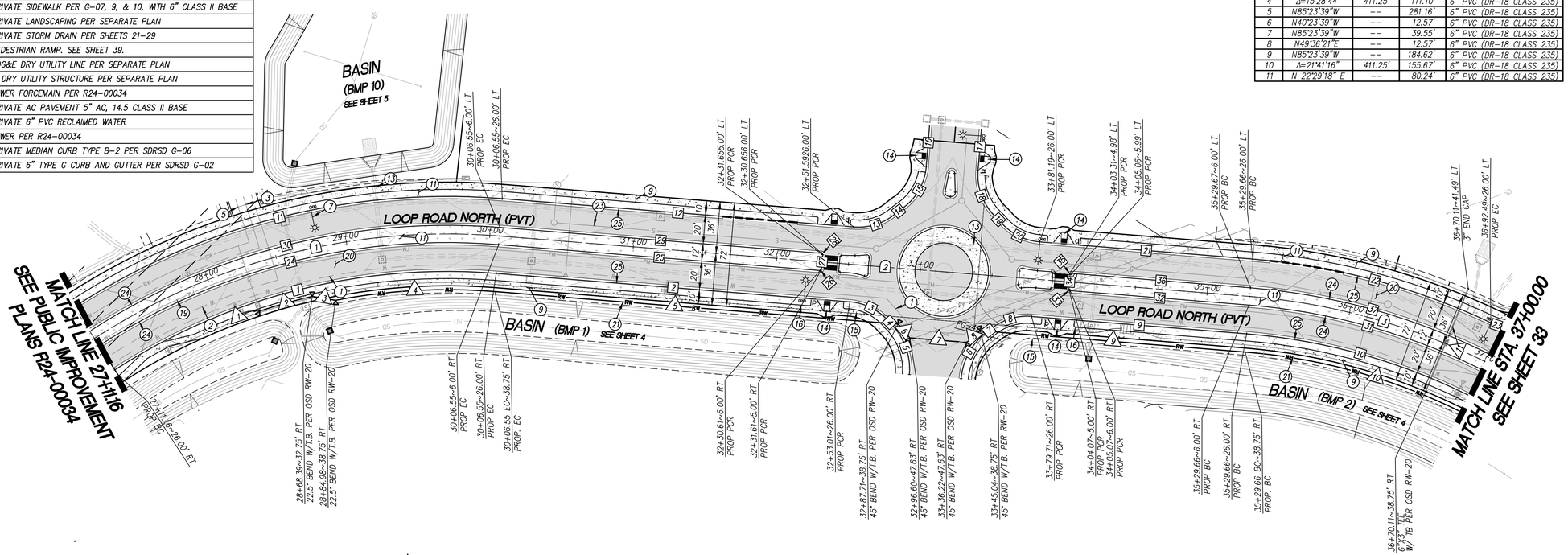


PROFILE: LOOP ROAD NORTH (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

CONSTRUCTION NOTES

(1)	12" PUBLIC WATER PER R24-00034
(2)	18" PUBLIC WATER PER R24-00034
(3)	20" PUBLIC GROUND WATER PER R24-00034
(5)	16" PUBLIC RECLAIMED WATER PER R24-00034
(7)	PROPOSED PRIVATE STREET LIGHT. SEE SHEETS 46-50
(9)	PROPOSED PRIVATE SIDEWALK PER G-07, 9, & 10, WITH 6" CLASS II BASE
(11)	PROPOSED PRIVATE LANDSCAPING PER SEPARATE PLAN
(13)	PROPOSED PRIVATE STORM DRAIN PER SHEETS 21-29
(14)	PROPOSED PEDESTRIAN RAMP. SEE SHEET 39.
(15)	PROPOSED SDG&E DRY UTILITY LINE PER SEPARATE PLAN
(16)	PROP SDG&E DRY UTILITY STRUCTURE PER SEPARATE PLAN
(19)	8" PUBLIC SEWER FORCEMAIN PER R24-00034
(20)	PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
(21)	PROPOSED PRIVATE 6" PVC RECLAIMED WATER
(23)	8" PUBLIC SEWER PER R24-00034
(24)	PROPOSED PRIVATE MEDIAN CURB TYPE B-2 PER SDRSD G-06
(25)	PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02



RECLAIMED WATER DATA (PRIVATE)				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N 18°12'06" W	--	0.75'	6" PVC (DR-18 CLASS 235)
2	Δ=05°12'57"	417.25'	37.98'	6" PVC (DR-18 CLASS 235)
3	N 80°29'09" W	--	16.41'	6" PVC (DR-18 CLASS 235)
4	Δ=15°28'44"	411.25'	111.10'	6" PVC (DR-18 CLASS 235)
5	N85°23'39"W	--	281.16'	6" PVC (DR-18 CLASS 235)
6	N40°23'39"W	--	12.57'	6" PVC (DR-18 CLASS 235)
7	N85°23'39"W	--	39.55'	6" PVC (DR-18 CLASS 235)
8	N49°36'21"E	--	12.57'	6" PVC (DR-18 CLASS 235)
9	N85°23'39"W	--	184.62'	6" PVC (DR-18 CLASS 235)
10	Δ=21°41'16"	411.25'	155.67'	6" PVC (DR-18 CLASS 235)
11	N 22°29'18" E	--	80.24'	6" PVC (DR-18 CLASS 235)

CENTERLINE DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	Δ=32°39'54"	450.00'	256.55'	PVT LOOP ROAD NORTH
2	N 85°23'39" W	--	523.11'	PVT LOOP ROAD NORTH
3	Δ=21°41'16"	450.00'	170.34'	PVT LOOP ROAD NORTH

CURB DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	Δ=37°36'38"	424.00'	278.33'	6" TYPE G C & G
2	N85°23'39"W	--	246.46'	6" TYPE G C & G
3	Δ=43°49'35"	40.00'	30.60'	6" TYPE G C & G
4	N43°05'10"W	--	2.73'	6" TYPE G C & G
5	Δ=49°14'52"	45.00'	38.68'	6" TYPE G C & G
6	Δ=49°13'17"	45.00'	38.66'	6" TYPE G C & G
7	N52°19'20"E	--	2.77'	6" TYPE G C & G
8	Δ=43°49'35"	40.00'	30.60'	6" TYPE G C & G
9	N85°23'39"W	--	149.96'	6" TYPE G C & G
10	Δ=21°41'16"	424.00'	160.49'	6" TYPE G C & G
11	Δ=37°36'38"	476.00'	312.46'	6" TYPE G C & G
12	N85°23'39"W	--	245.04'	6" TYPE G C & G
13	Δ=44°32'46"	40.00'	31.10'	6" TYPE G C & G
14	Δ=04°35'52"	75.00'	6.02'	6" TYPE G C & G
15	Δ=50°00'51"	40.00'	34.92'	6" TYPE G C & G
16	N04°38'36"E	--	32.96'	6" TYPE G C & G
17	N04°38'35"E	--	33.07'	6" TYPE G C & G
18	Δ=51°10'05"	40.00'	35.72'	6" TYPE G C & G
19	Δ=04°02'00"	73.00'	5.14'	6" TYPE G C & G
20	Δ=44°28'43"	40.00'	31.05'	6" TYPE G C & G
21	N85°23'39"W	--	148.48'	6" TYPE G C & G
22	Δ=20°43'53"	476.00'	172.23'	6" TYPE G C & G
23	Δ=15°23'47"	30.00'	8.06'	6" TYPE G C & G
24	Δ=37°36'38"	444.00'	291.45'	6" TYPE B-2 C & G
25	N85°23'39"W	--	224.06'	6" TYPE B-2 C & G
26	Δ=89°47'09"	1.00'	1.57'	6" TYPE B-2 C & G
27	N04°49'12"E	--	10.00'	6" TYPE B-2 C & G
28	Δ=90°12'51"	1.00'	1.57'	6" TYPE B-2 C & G
29	N85°23'39"W	--	224.10'	6" TYPE B-2 C & G
30	Δ=37°36'38"	456.00'	299.33'	6" TYPE B-2 C & G
31	Δ=21°41'16"	444.00'	168.06'	6" TYPE B-2 C & G
32	N85°23'39"W	--	124.59'	6" TYPE B-2 C & G
33	Δ=89°33'04"	1.00'	1.56'	6" TYPE B-2 C & G
34	N04°09'25"E	--	10.00'	6" TYPE B-2 C & G
35	Δ=90°26'56"	1.00'	1.58'	6" TYPE B-2 C & G
36	N85°23'39"W	--	124.67'	6" TYPE B-2 C & G
37	Δ=21°41'16"	456.00'	172.61'	6" TYPE B-2 C & G

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3
(•) SEE SHEET 40 FOR PROFILE

Underground Service Alert

CALL BEFORE YOU DIG

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

N

40 20 0 40 80 120

SCALE: 1"=40'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

PLAN: LOOP ROAD NORTH (PRIVATE)

SCALE: 1"=40'

Bowman

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701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY:

PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
32		

PRIVATE IMPROVEMENT PLANS FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

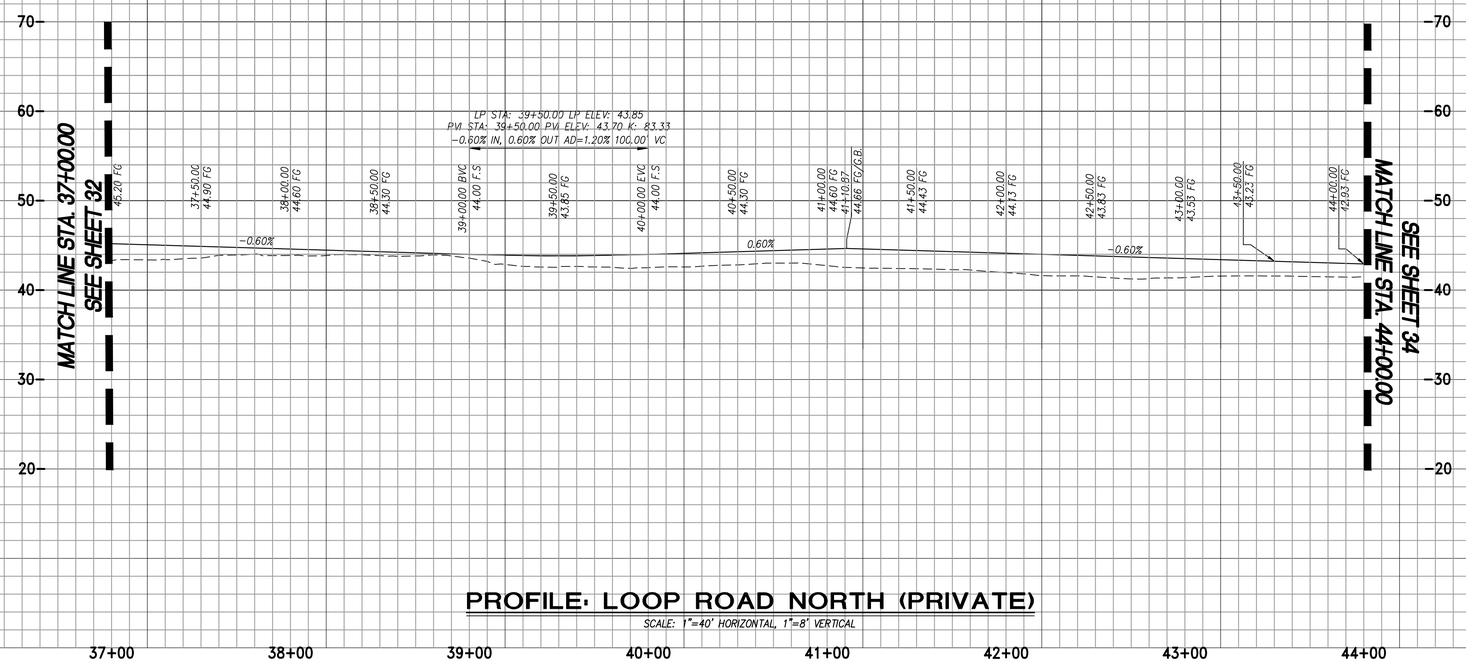
MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

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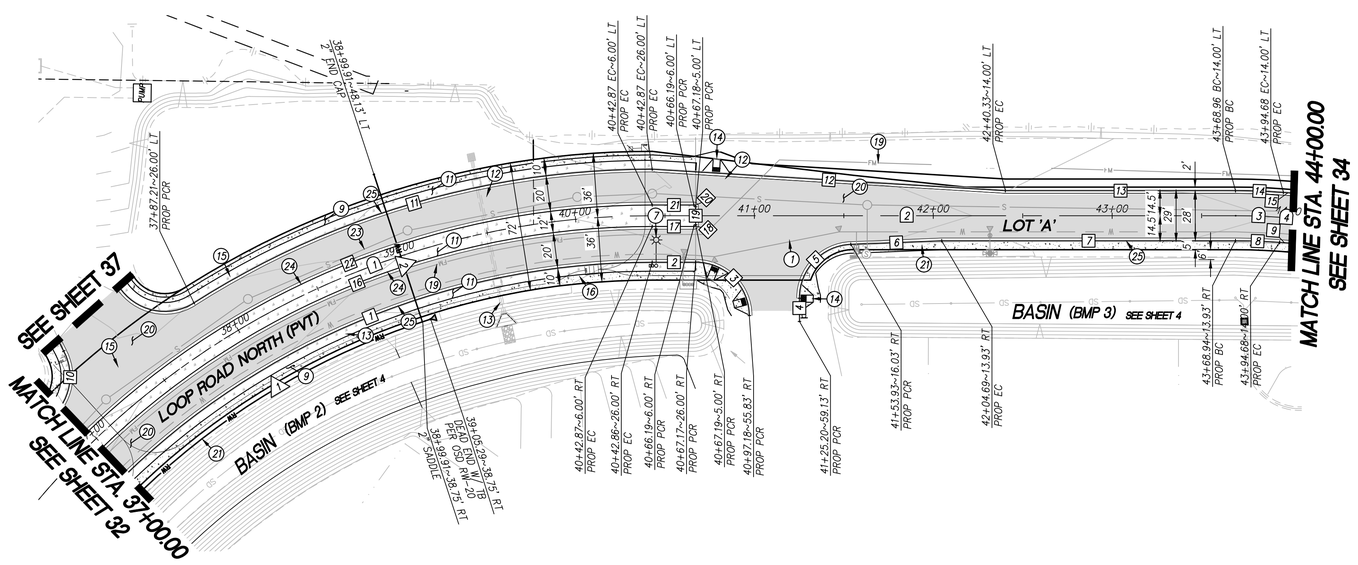


PROFILE: LOOP ROAD NORTH (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

CONSTRUCTION NOTES

1	12" PUBLIC WATER PER R24-00034
7	PROPOSED PRIVATE STREET LIGHT. SEE SHEETS 46-50
9	PROPOSED PRIVATE SIDEWALK PER G-07, 9, & 10, WITH 6" CLASS II BASE
11	PROPOSED PRIVATE LANDSCAPING PER SEPARATE PLAN
13	PROPOSED PRIVATE STORM DRAIN PER SHEETS 21-29
14	PROPOSED PEDESTRIAN RAMP. SEE SHEET 39.
15	PROPOSED SDG&E DRY UTILITY LINE PER SEPARATE PLAN
16	PROP SDG&E DRY UTILITY STRUCTURE PER SEPARATE PLAN
19	8" PUBLIC SEWER FORCEMAIN PER R24-00034
20	PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
21	PROPOSED PRIVATE 6" PVC RECLAIMED WATER
23	8" PUBLIC SEWER PER R24-00034
24	PROPOSED PRIVATE MEDIAN CURB TYPE B-2 PER SDRSD G-06
25	PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02



PLAN: LOOP ROAD NORTH (PRIVATE)

SCALE: 1"=40'

CENTERLINE DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	Δ=43°39'21"	450.00'	342.87'	PVT LOOP ROAD NORTH
2	N 20°03'02" W	--	326.09'	PVT LOOP ROAD NORTH
3	Δ=04°15'35"	346.00'	25.72'	PVT LOOP ROAD NORTH
4	N 15°47'27" W	--	5.32'	PVT LOOP ROAD NORTH

CURB DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	Δ=43°39'21"	424.00'	323.06'	6" TYPE G C & G
2	N20°03'02"W	--	24.31'	6" TYPE G C & G
• 3	Δ=89°41'15"	30.00'	46.96'	6" TYPE G C & G
4	N69°38'13"E	--	14.97'	6" TYPE G C & G
• 5	Δ=83°53'14"	30.12'	44.11'	6" TYPE G C & G
6	N22°20'12"W	--	50.82'	6" TYPE G C & G
7	N20°03'02"W	--	164.25'	6" TYPE G C & G
8	Δ=04°15'35"	332.00'	24.68'	6" TYPE G C & G
9	N15°47'27"W	--	5.32'	6" TYPE G C & G
• 10	Δ=58°01'48"	30.00'	30.38'	6" TYPE G C & G
11	Δ=32°33'05"	476.00'	270.43'	6" TYPE G C & G
12	N16°34'23"W	--	197.82'	6" TYPE G C & G
13	N20°03'02"W	--	128.63'	6" TYPE G C & G
14	Δ=04°15'35"	360.00'	26.76'	6" TYPE G C & G
15	N15°47'27"W	--	5.32'	6" TYPE G C & G
16	Δ=43°39'21"	444.00'	338.30'	6" TYPE B-2 C & G
17	N20°03'02"W	--	24.31'	6" TYPE B-2 C & G
18	Δ=90°26'57"	1.00'	1.58'	6" TYPE B-2 C & G
19	N69°52'28"E	--	10.00'	6" TYPE B-2 C & G
20	Δ=89°33'03"	1.00'	1.56'	6" TYPE B-2 C & G
21	N20°03'02"W	--	24.31'	6" TYPE B-2 C & G
22	Δ=43°39'21"	456.00'	347.44'	6" TYPE B-2 C & G

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3
(•) SEE SHEET 40 FOR PROFILE

RECLAIMED WATER DATA (PRIVATE)				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	Δ=26°08'20"	411.25'	187.62'	6" PVC (DR-18 CLASS 235)
2	N 51°44'49" E	--	86.88'	6" PVC (DR-18 CLASS 235)

WDID NO. 9 37C399692 FILE NO.

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

N

40 20 0 40 80 120
SCALE: 1"=40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

SHEET 33	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

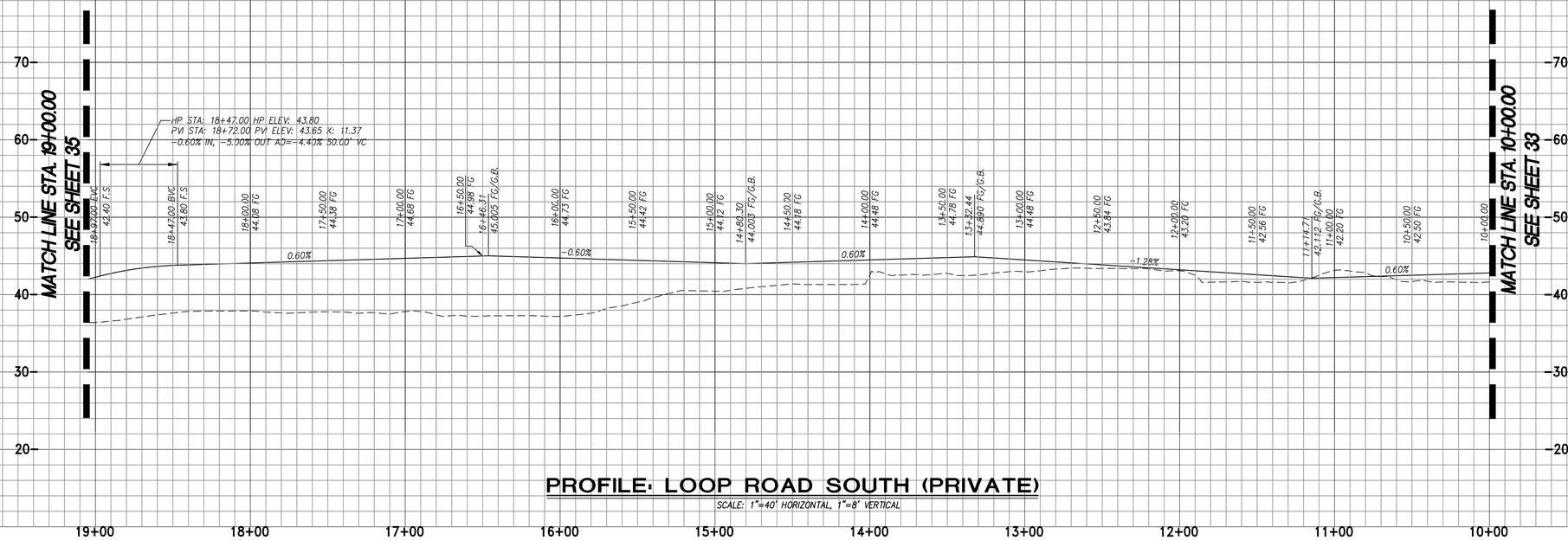
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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PROFILE- LOOP ROAD SOUTH (PRIVATE)

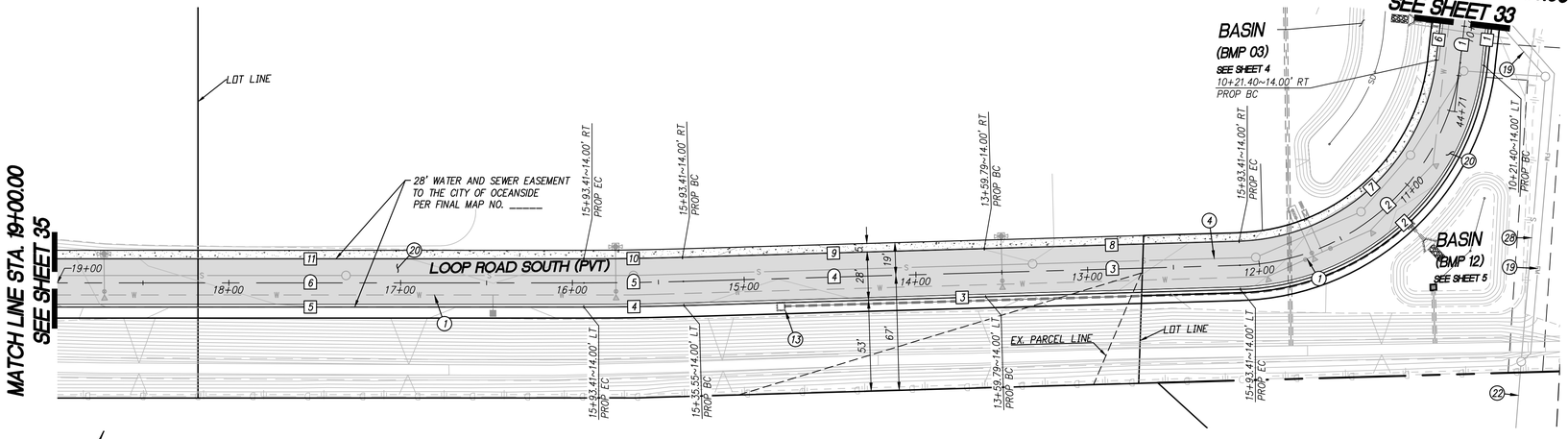
SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

CURB DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N15°47'27"W	--	47.78'	6" TYPE G C & G
2	Δ=81°51'05"	147.00'	210.00'	6" TYPE G C & G
3	N66°03'38"E	--	324.15'	6" TYPE G C & G
4	Δ=01°39'40"	2010.00'	58.27'	6" TYPE G C & G
5	N67°43'18"E	--	318.47'	6" TYPE G C & G
6	N15°47'27"W	--	47.78'	6" TYPE G CURB
7	Δ=81°51'05"	119.00'	170.00'	6" TYPE G CURB
8	N66°03'38"E	--	148.39'	6" TYPE G CURB
9	N66°03'38"E	--	175.76'	6" TYPE G CURB
10	Δ=01°39'40"	1982.00'	57.46'	6" TYPE G CURB
11	N67°43'18"E	--	318.47'	6" TYPE G CURB

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3

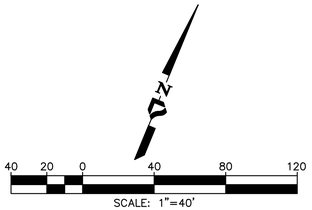
CENTERLINE DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N15°47'27"W	--	21.40'	PVT LOOP ROAD SOUTH
2	Δ=81°51'05"	133.00'	190.00'	PVT LOOP ROAD SOUTH
3	N66°03'38"E	--	148.39'	PVT LOOP ROAD SOUTH
4	N66°03'38"E	--	175.76'	PVT LOOP ROAD SOUTH
5	Δ=01°39'40"	1996.00'	57.87'	PVT LOOP ROAD SOUTH
6	N67°43'18"E	--	318.47'	PVT LOOP ROAD SOUTH

CONSTRUCTION NOTES	
1	12" PUBLIC WATER PER R24-00034
4	10" PUBLIC SEWER PER R24-00034
13	PROPOSED PRIVATE STORM DRAIN PER SHEETS 21-29
19	8" PUBLIC SEWER FORCEMAIN PER R24-00034
20	PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
22	15" PUBLIC SEWER R24-00034
28	12" PUBLIC SEWER PER R24-00034



PLAN- LOOP ROAD SOUTH (PRIVATE)

SCALE: 1"=40'



Underground Service Alert
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
Bowman.com
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev.: 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 34	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

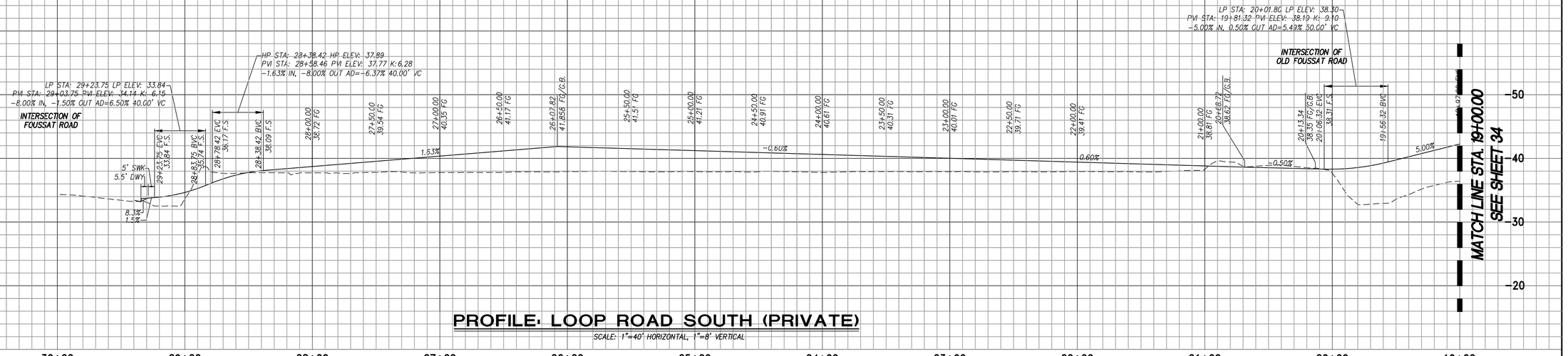
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By:
Date:

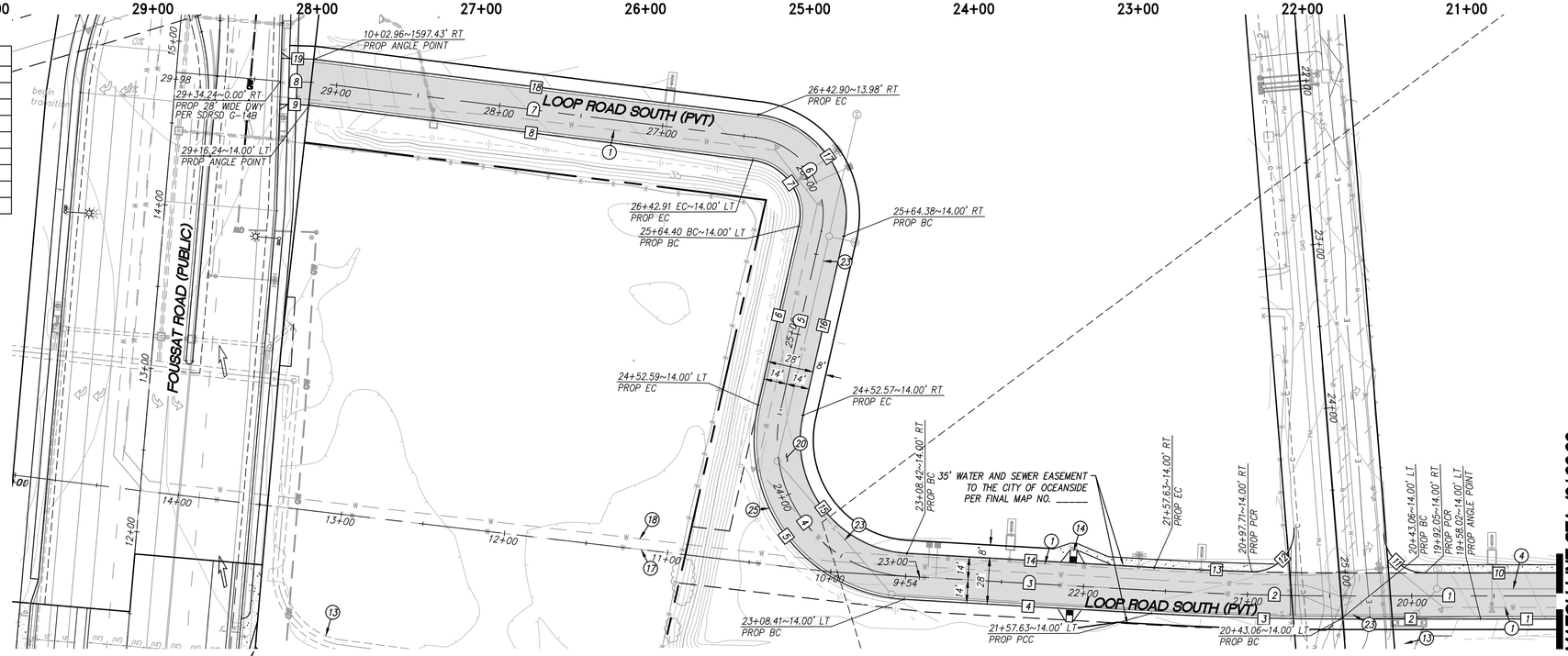
PLAN NUMBER G24-00022

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PROFILE: LOOP ROAD SOUTH (PRIVATE)

SCALE: 1"=40' HORIZONTAL; 1"=8' VERTICAL



CONSTRUCTION NOTES

1	12" PUBLIC WATER PER R24-00034
4	10" PUBLIC SEWER PER R24-00034
13	PROPOSED PRIVATE STORM DRAIN PER SHEETS 21-29
14	PROPOSED PEDESTRIAN RAMP. SEE SHEET 39.
17	30" PUBLIC WATER PER R24-00034
18	24" PUBLIC WATER PER R24-00034
20	PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
23	8" PUBLIC SEWER PER R24-00034
25	PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02

PLAN: LOOP ROAD SOUTH (PRIVATE)

SCALE: 1"=40'

CENTERLINE DATA

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 67°43'18" E	--	131.18'	PVT LOOP ROAD SOUTH
2	Δ=03°17'19"	1996.00'	114.56'	PVT LOOP ROAD SOUTH
3	N 71°00'37" E	--	150.78'	PVT LOOP ROAD SOUTH
4	Δ=99°31'14"	83.00'	144.17'	PVT LOOP ROAD SOUTH
5	N 09°28'09" W	--	111.81'	PVT LOOP ROAD SOUTH
6	Δ=95°42'15"	47.00'	78.51'	PVT LOOP ROAD SOUTH
7	N 74°49'36" E	--	272.69'	PVT LOOP ROAD SOUTH
8	N 69°30'18" E	--	18.65'	PVT LOOP ROAD SOUTH

CURB DATA

NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N67°43'18"E	--	56.14'	6" TYPE G C & G
2	N67°43'18"E	--	85.04'	6" TYPE G C & G
3	Δ=03°17'19"	2010.00'	115.37'	6" TYPE G C & G
4	N71°00'37"E	--	150.78'	6" TYPE G C & G
5	Δ=99°31'14"	97.00'	168.49'	6" TYPE G C & G
6	N09°28'09"W	--	111.81'	6" TYPE G C & G
7	Δ=95°42'15"	33.00'	55.12'	6" TYPE G C & G
8	N74°49'36"E	--	272.04'	6" TYPE G C & G
9	N69°30'18"E	--	18.00'	6" TYPE G C & G
10	N67°43'18"E	--	90.17'	6" TYPE G C & G
11	Δ=87°50'18"	25.00'	38.33'	6" TYPE G C & G
12	Δ=95°25'04"	25.00'	41.63'	6" TYPE G C & G
13	Δ=01°43'12"	1982.00'	59.50'	6" TYPE G C & G
14	N71°00'37"E	--	150.78'	6" TYPE G C & G
15	Δ=99°31'14"	69.00'	119.85'	6" TYPE G C & G
16	N09°28'09"W	--	111.81'	6" TYPE G C & G
17	Δ=95°42'15"	61.00'	101.89'	6" TYPE G C & G
18	N74°49'36"E	--	272.69'	6" TYPE G C & G
19	N69°30'18"E	--	19.95'	6" TYPE G C & G

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3

MATCH LINE STA. 19+00.00
SEE SHEET 34

WDID NO. 9 37C399692 FILE NO.

Underground Service Alert
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

40 20 0 40 80 120
SCALE: 1"=40'

MARINA NATASHA WURST
REGISTERED PROFESSIONAL ENGINEER
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

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701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev: 33.87 FEET Datum: NAVD 88

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
35		

PRIVATE IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

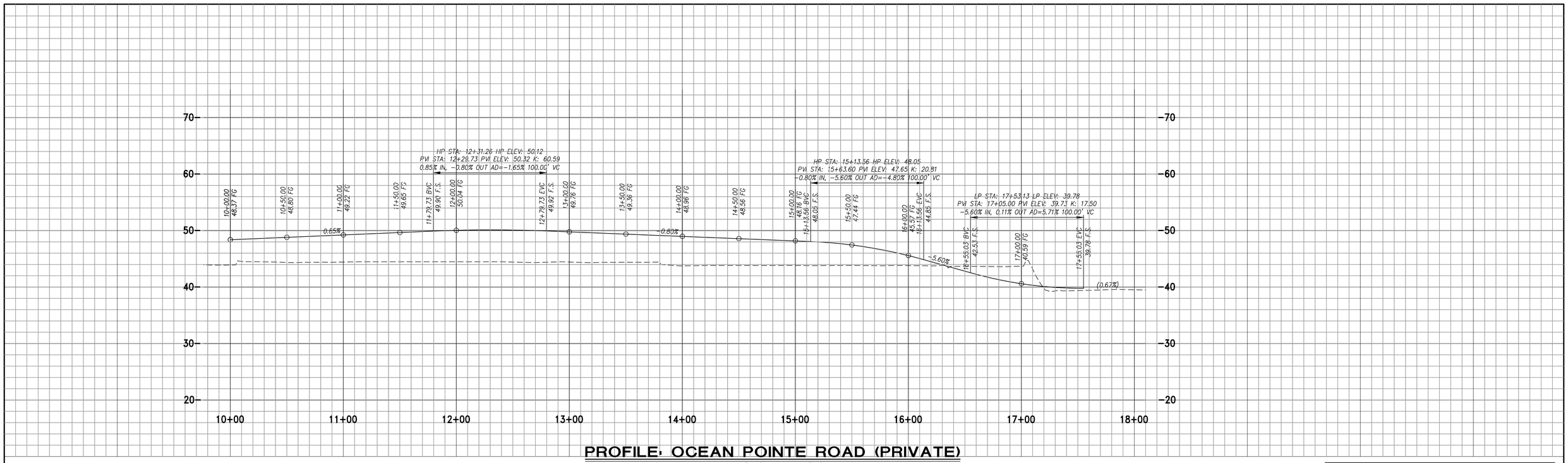
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By:
Date:

PLAN NUMBER G24-00022

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PROFILE: OCEAN POINTE ROAD (PRIVATE)

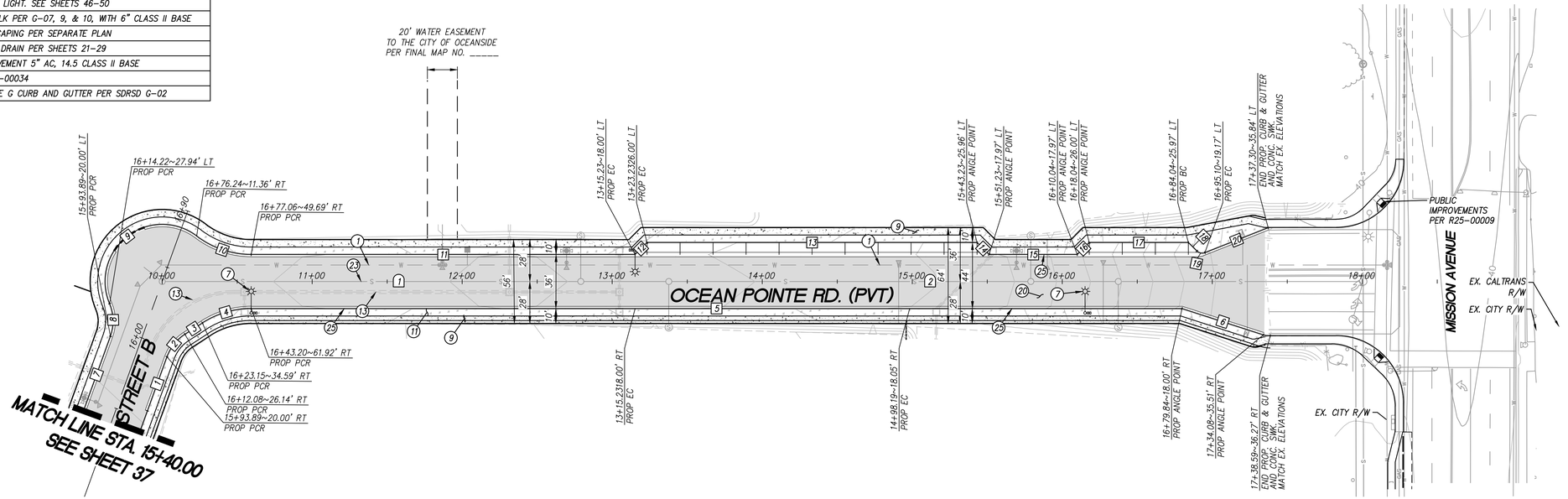
SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

CONSTRUCTION NOTES
(1) 12" PUBLIC WATER PER R24-00034
(7) PROPOSED PRIVATE STREET LIGHT. SEE SHEETS 46-50
(9) PROPOSED PRIVATE SIDEWALK PER G-07, 9, & 10, WITH 6" CLASS II BASE
(11) PROPOSED PRIVATE LANDSCAPING PER SEPARATE PLAN
(13) PROPOSED PRIVATE STORM DRAIN PER SHEETS 21-29
(20) PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
(23) 8" PUBLIC SEWER PER R24-00034
(25) PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02

CENTERLINE DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 39°09'56" W	--	315.23'	PVT OCEAN POINTE ROAD
2	N 39°09'56" W	--	419.77'	PVT OCEAN POINTE ROAD

CURB DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	N70°41'41"E	--	38.32'	6" TYPE G C & G
2	Δ=37°19'44"	30.00'	19.55'	6" TYPE G C & G
3	N71°58'35"W	--	13.93'	6" TYPE G C & G
4	Δ=32°48'39"	60.00'	34.36'	6" TYPE G C & G
5	N39°09'56"W	--	620.51'	6" TYPE G C & G
6	N21°16'19"W	--	56.99'	6" TYPE G C & G
7	N70°41'41"E	--	54.39'	6" TYPE G C & G
8	Δ=42°40'04"	30.00'	22.34'	6" TYPE G C & G
9	Δ=150°03'55"	38.00'	99.53'	6" TYPE G C & G
10	Δ=37°15'28"	60.00'	39.02'	6" TYPE G C & G
11	N39°09'56"W	--	255.90'	6" TYPE G C & G
12	N84°09'44"W	--	11.31'	6" TYPE G CURB
13	N39°09'56"W	--	220.00'	6" TYPE G CURB
14	N05°50'04"E	--	11.31'	6" TYPE G CURB
15	N39°09'56"W	--	58.81'	6" TYPE G C & G
16	N84°09'56"W	--	11.31'	6" TYPE G CURB
17	N39°09'56"W	--	66.00'	6" TYPE G CURB
18	N05°50'04"E	--	8.03'	6" TYPE G CURB
19	Δ=66°33'04"	5.00'	5.81'	6" TYPE G C & G
20	N60°43'00"W	--	45.39'	6" TYPE G C & G

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3
(•) SEE SHEET 40 FOR PROFILE



PLAN: OCEAN POINTE ROAD (PRIVATE)

SCALE: 1"=40'

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

SCALE: 1"=40'

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY: PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APP'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET 36	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

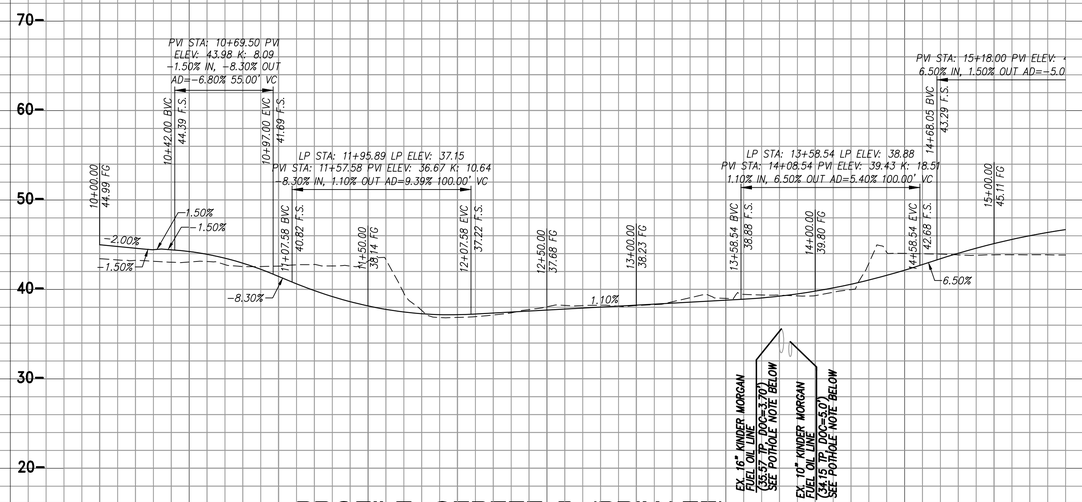
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

PLAN NUMBER G24-00022

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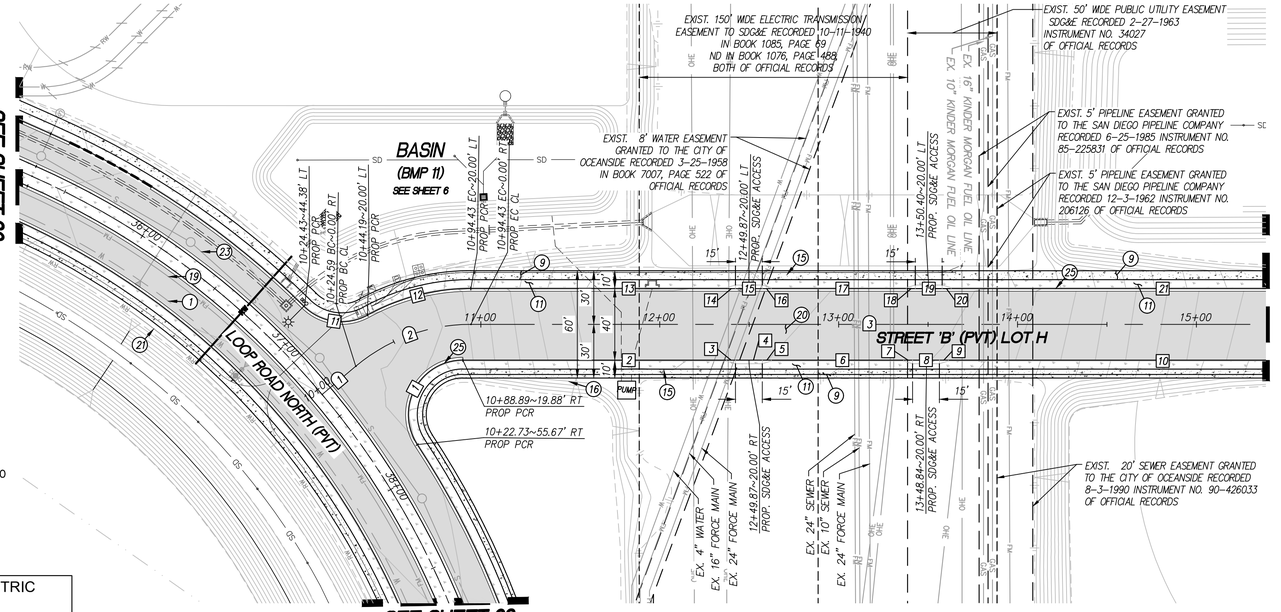


PROFILE- STREET B (PRIVATE)

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

MATCH LINE STA. 16+00.00
SEE SHEET 36

CONSTRUCTION NOTES	
1	12" PUBLIC WATER PER R24-00034
9	PROPOSED PRIVATE SIDEWALK PER G-07, 9, & 10, WITH 6" CLASS II BASE
11	PROPOSED PRIVATE LANDSCAPING PER SEPARATE PLAN
15	PROPOSED SDG&E DRY UTILITY LINE PER SEPARATE PLAN
16	PROP SDG&E DRY UTILITY STRUCTURE PER SEPARATE PLAN
19	8" PUBLIC SEWER FORCEMAIN PER R24-00034
20	PROPOSED PRIVATE AC PAVEMENT 5" AC, 14.5 CLASS II BASE
21	PROPOSED PRIVATE 6" PVC RECLAIMED WATER
23	8" PUBLIC SEWER PER R24-00034
25	PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02



PLAN- STREET B (PRIVATE)

SCALE: 1"=40'

SEE SHEET 33

MATCH LINE STA. 15+40.00
SEE SHEET 36

CENTERLINE DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N30°40'53"E	--	24.59'	STREET B (PVT) LOT H
2	Δ=40°00'48"	100.00'	69.84'	STREET B (PVT) LOT H
3	N70°41'41"E	--	445.57'	STREET B (PVT) LOT H

CURB DATA				
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	Δ=123°17'48"	30.50'	65.63'	6" TYPE G C & G
2	N70°41'41"E	--	147.37'	6" TYPE G CURB
3	N70°41'41"E	--	5.00	CURB TRANSITION*
4	N70°41'41"E	--	15.00'	6" ROLLED C & G
5	N70°41'41"E	--	5.00'	CURB TRANSITION*
6	N70°41'41"E	--	73.98'	6" TYPE G C & G
7	N70°41'41"E	--	5.00	CURB TRANSITION*
8	N70°41'41"E	--	15.00'	6" ROLLED C & G
9	N70°41'41"E	--	5.00'	CURB TRANSITION*
10	N70°41'41"E	--	178.16'	6" TYPE G C & G
11	Δ=73°25'35"	30.00'	38.45'	6" TYPE G C & G
12	Δ=28°47'02"	120.00'	60.28'	6" TYPE G C & G
13	N70°41'41"E	--	142.94'	6" TYPE G C & G
14	N70°41'41"E	--	5.00'	CURB TRANSITION*
15	N70°41'41"E	--	15.00'	6" ROLLED C & G
16	N70°41'41"E	--	5.00'	CURB TRANSITION*
17	N70°41'41"E	--	75.53'	6" TYPE G C & G
18	N70°41'41"E	--	5.00'	CURB TRANSITION*
19	N70°41'41"E	--	15.00'	6" ROLLED C & G
20	N70°41'41"E	--	5.00'	CURB TRANSITION*
21	N70°41'41"E	--	176.60'	6" TYPE G C & G

* CURB TRANSITION FROM TYPE G CURB & GUTTER TO TYPE-B ROLLED CURB & GUTTER PER SDRSD G-4A AND G-4B
ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3

(•) SEE SHEET 40 FOR PROFILE

N

40 20 0 40 80 120

SCALE: 1"=40'

POTHOLE NOTE:

EXISTING KINDER MORGAN FUEL OIL LINE ELEVATION CALCULATED FROM POTHOLE DATA PROVIDED AT THIS LOCATION IN THE UNDERGROUND SOLUTION REPORT DATED 09/06/2024

SAN DIEGO GAS & ELECTRIC COMPANY

REVIEWED BY: _____ DATE: _____
ERIC CRAIG
PRINCIPAL LAND AGENT
VALID FOR 18 MONTHS FROM DATE OF SIGNATURE

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

SDG&E OVERHEAD CONDUCTORS NOTE:

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, 230KV & 69KV ELEVATION VARIES. REFER TO WWW.SDGE.COM/PROJECT-RESOURCES FOR ADDITION AL REQUIREMENTS AND TO SCHEDULE STANDBY LINEMAN SAFETY WATCH. OUTAGE COORDINATION AND/OR CONSTRUCTION MEANS & METHOD'S REVIEW FOR ANY WORK WITHIN 20 FEET RADIAL CLEARANCE OR WITHIN CALOSHA §5003.1 MINIMUM CLEARANCE DISTANCES FOR WORKERS & EQUIPMENT. EXCAVATIONS MUST MAINTAIN 10 FEET RADIAL CLEARANCE FROM EXISTING INFRASTRUCTURE. ONLY SDG&E APPROVED QUALIFIED ELECTRICAL WORKER IS ALLOWED TO WORK WITHIN THOSE MINIMUM CLEARANCE DISTANCES. PROVIDE 30 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING INFRASTRUCTURE.

REGISTERED PROFESSIONAL ENGINEER
MARINA NATASHA WURST
No. C67517
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

Bowman

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701 B Street, Suite 800
San Diego, CA 92101

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Bowman.com

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27 | DESIGNED BY: | PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO. 21787
Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
37		

PRIVATE IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

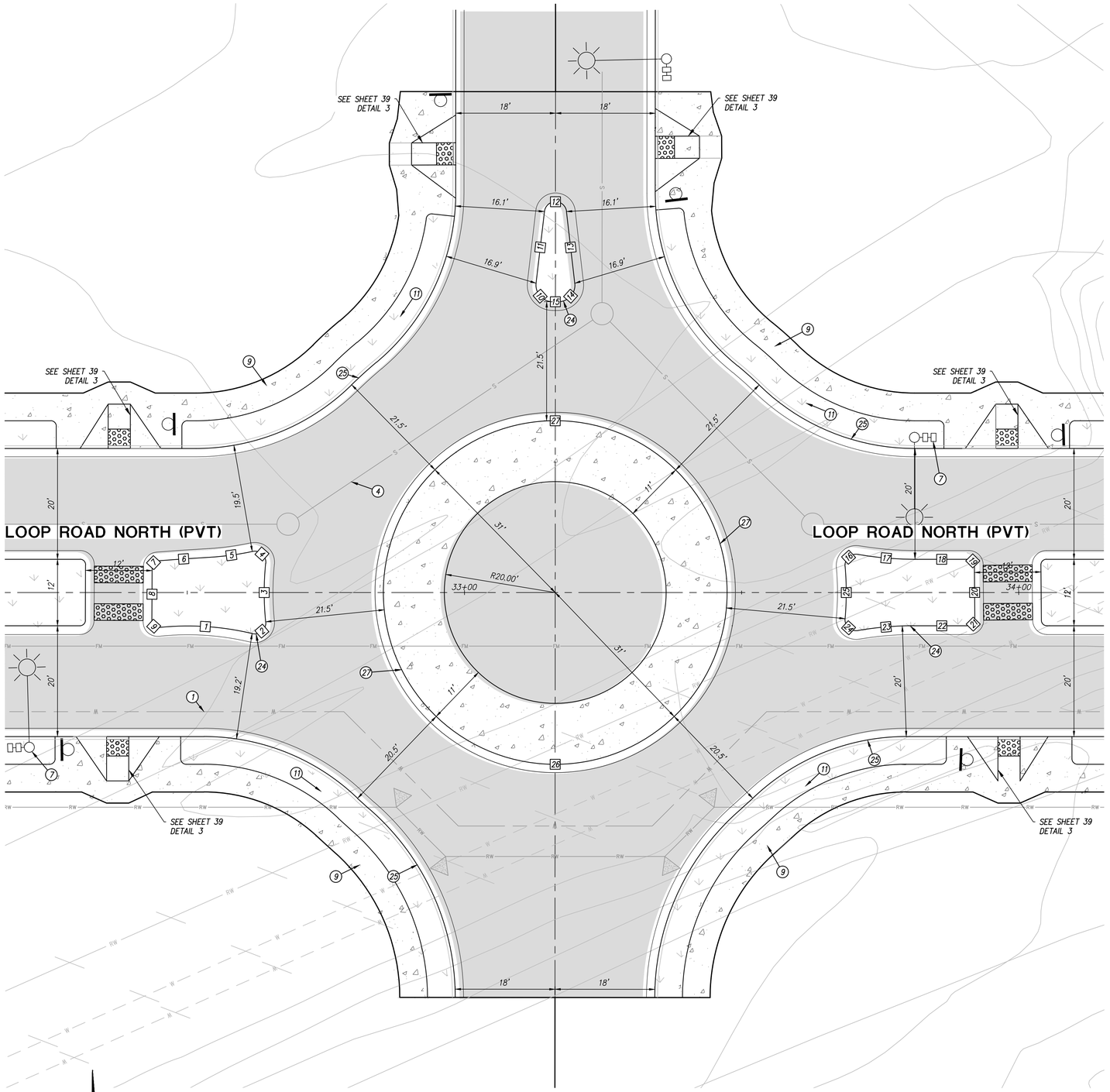
APPROVED
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

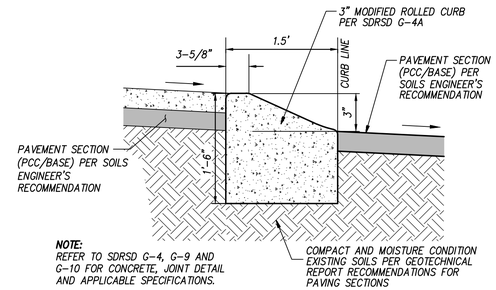
Checked By:
Date:

PLAN NUMBER G24-00022

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CONSTRUCTION NOTES	
1	12" PUBLIC WATER PER R24-00034
4	10" PUBLIC SEWER PER R24-00034
7	PROPOSED PRIVATE STREET LIGHT. SEE SHEETS 46-50.
9	PROPOSED PRIVATE SIDEWALK PER G-07, 9, & 10, WITH 6" CLASS II BASE
11	PROPOSED PRIVATE LANDSCAPING PER SEPARATE PLAN
24	PROPOSED PRIVATE MEDIAN CURB TYPE B-2 PER SDRSD G-06
25	PROPOSED PRIVATE 6" TYPE G CURB AND GUTTER PER SDRSD G-02
27	PROPOSED PRIVATE 3" MODIFIED ROLLED CURB



NOTE:
REFER TO SDRSD G-4, G-9 AND G-10 FOR CONCRETE, JOINT DETAIL AND APPLICABLE SPECIFICATIONS.

3" MODIFIED ROLLED CURB AND GUTTER

NOT TO SCALE

CURB DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	REMARKS
1	Δ=19°34'29"	50.00'	17.08'	6" TYPE B-2 C & G
2	Δ=108°38'42"	2.00'	3.79'	6" TYPE B-2 C & G
3	Δ=11°32'10"	52.50'	10.57'	6" TYPE B-2 C & G
4	Δ=107°25'58"	2.00'	3.75'	6" TYPE B-2 C & G
5	Δ=08°49'04"	50.00'	7.69'	6" TYPE B-2 C & G
6	Δ=01°04'57"	506.00'	9.56'	6" TYPE B-2 C & G
7	Δ=85°19'14"	1.00'	1.49'	6" TYPE B-2 C & G
8	N04°49'12"E	--	10.06'	6" TYPE B-2 C & G
9	Δ=96°22'47"	1.00'	1.68'	6" TYPE B-2 C & G
10	Δ=96°36'22"	3.00'	5.06'	6" TYPE B-2 C & G
11	N11°14'57"E	--	13.03'	6" TYPE B-2 C & G
12	Δ=166°47'16"	2.00'	5.82'	6" TYPE B-2 C & G
13	N01°57'47"W	--	13.03'	6" TYPE B-2 C & G
14	Δ=96°36'22"	3.00'	5.06'	6" TYPE B-2 C & G
15	N85°21'25"W	--	1.01'	6" TYPE B-2 C & G
16	Δ=104°56'16"	2.00'	3.66'	6" TYPE B-2 C & G
17	Δ=09°46'43"	60.00'	10.24'	6" TYPE B-2 C & G
18	N85°23'39"W	--	9.81'	6" TYPE B-2 C & G
19	Δ=89°33'04"	1.00'	1.56'	6" TYPE B-2 C & G
20	N04°09'25"E	--	10.00'	6" TYPE B-2 C & G
21	Δ=90°26'56"	1.00'	1.58'	6" TYPE B-2 C & G
22	N85°23'39"W	--	9.93'	6" TYPE B-2 C & G
23	Δ=09°44'24"	60.00'	10.20'	6" TYPE B-2 C & G
24	Δ=104°53'30"	2.00'	3.66'	6" TYPE B-2 C & G
25	Δ=10°18'39"	52.50'	9.45'	6" TYPE B-2 C & G
26	Δ=180°00'00"	31.00'	97.39'	3" MOD. ROLLED CURB
27	Δ=180°00'00"	31.00'	97.39'	3" MOD. ROLLED CURB

ALL CURB SHALL INCLUDE 6" MIN CLASS II BASE
SEE "COMPACTION AND SUBGRADE NOTES" ON SHEET 3
SEE SHEET 40 FOR PROFILE VIEW

TRAFFIC CIRCLE LAYOUT - PRIVATE LOOP ROAD NORTH

SCALE: 1"=10'

Underground Service Alert

CALL 811

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10 5 0 10 20 30

SCALE: 1"=10'

REGISTERED PROFESSIONAL ENGINEER MARINA NATASHA WURST No. C67517 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

Bowman

Bowman Consulting Group Ltd
701 B Street, Suite 800
San Diego, CA 92101

Phone: 619.235.6471
Bowman.com

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MARINA NATASHA WURST, R.C.E. C67517 DATE REGISTRATION EXPIRES 6-30-27

DESIGNED BY:

PM REVIEW:

APPROVED CHANGES:

NO.	DESCRIPTION	APPV'D	DATE

CITY BENCHMARK: *STATION NO.1019*

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. 9 37C399692 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
38		

LOOP ROAD IMPROVEMENT PLANS FOR:
OCEAN KAMP-OCEANSIDE

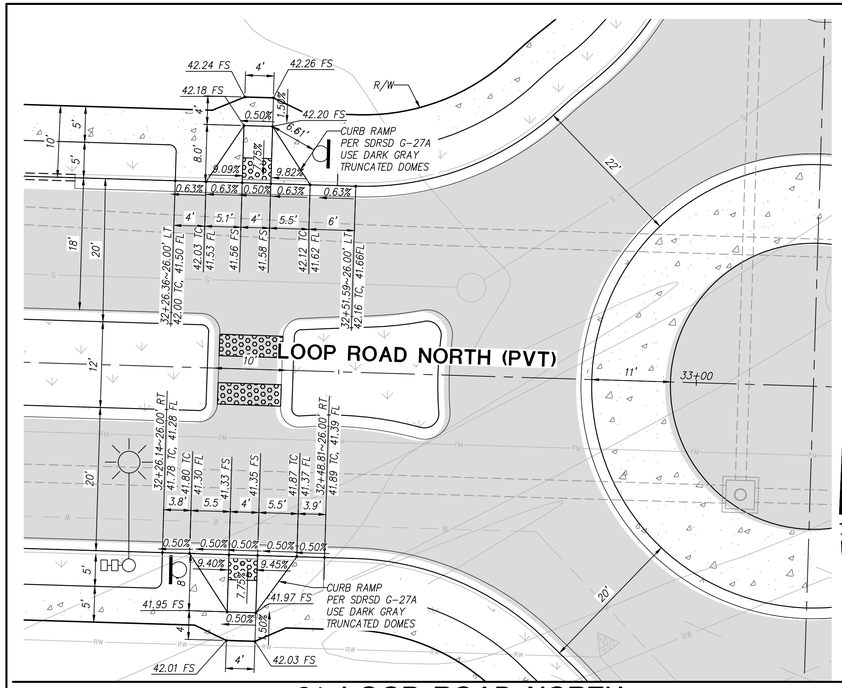
APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK
MARINA N. WURST R.C.E. C67517 DATE

Checked By:
Date:

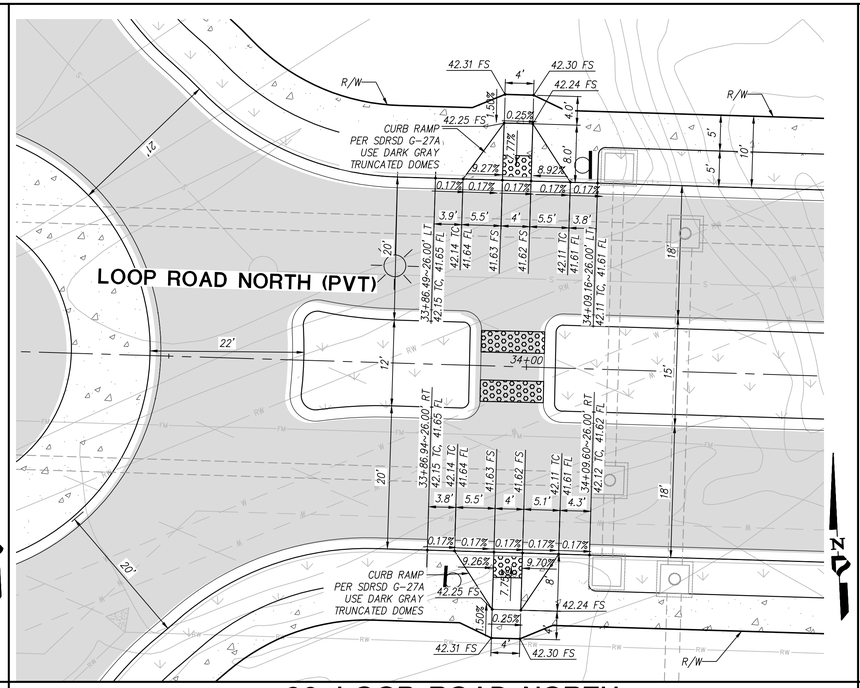
PLAN NUMBER G24-00022



01.-LOOP ROAD NORTH

SCALE: 1"=10'

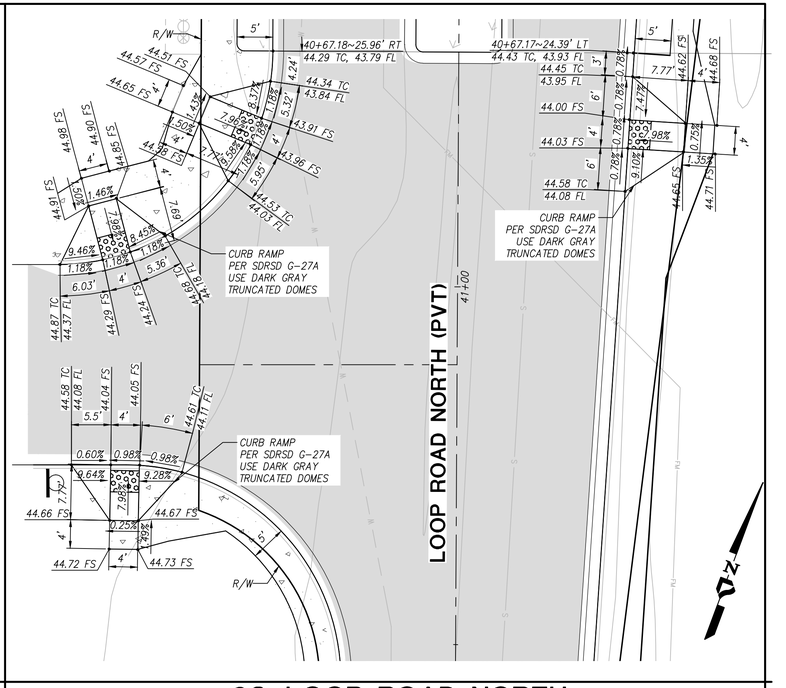
SEE SHEET 32 FOR PLAN VIEW



02.-LOOP ROAD NORTH

SCALE: 1"=10'

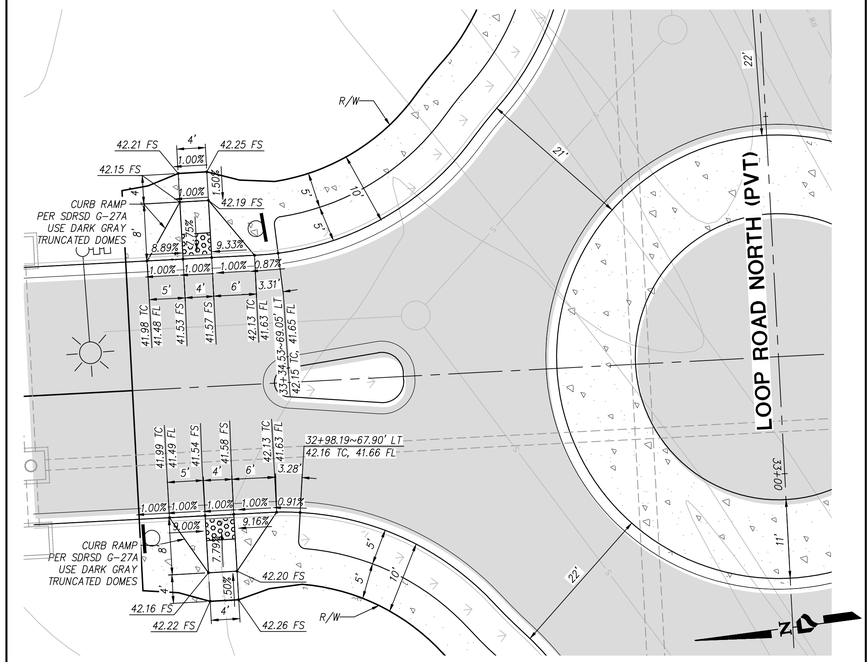
SEE SHEET 32 FOR PLAN VIEW



03.-LOOP ROAD NORTH

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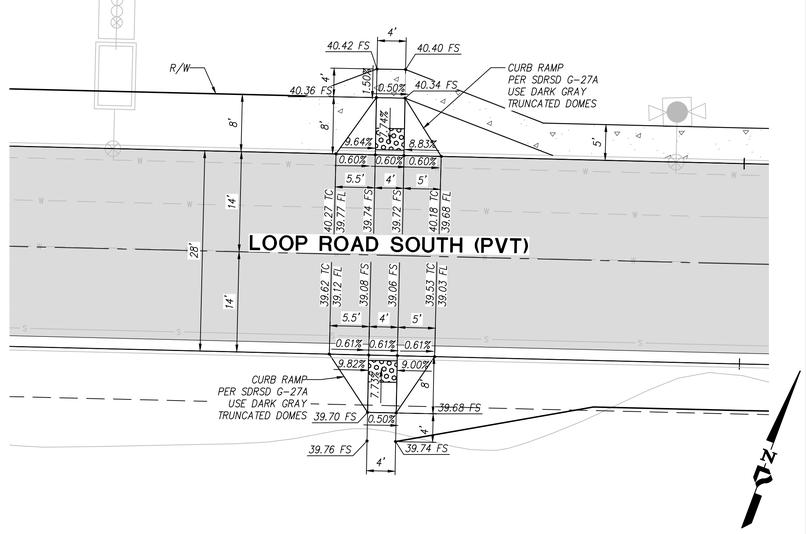
SEE SHEET 33 FOR PLAN VIEW



04.-LOOP ROAD NORTH

SCALE: 1"=10'

SEE SHEET 32 FOR PLAN VIEW



05.-LOOP ROAD SOUTH

SCALE: 1"=10'

SEE SHEET 35 FOR PLAN VIEW

WDID NO. 9 37C399692 FILE NO.

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REGISTERED PROFESSIONAL ENGINEER — MARINA NATASHA WURST — No. C67517 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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SHEET 39	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

RAMP DETAILS FOR:

OCEAN KAMP–OCEANSIDE

APPROVED

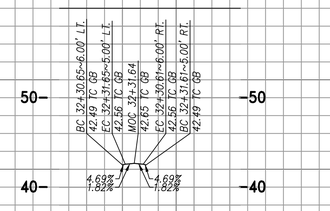
CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By: Date:

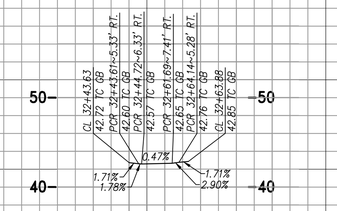
PLAN NUMBER G24-00022



TOP OF CURB PROFILE 28 27 26

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

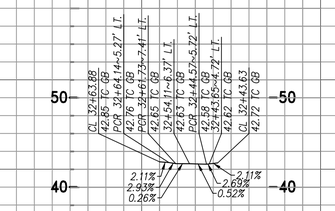
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 8 9 1 / 2 3

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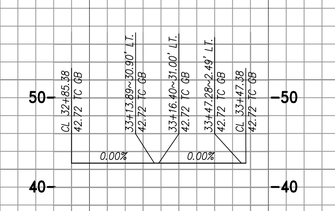
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 3 4 5 / 6 7 8

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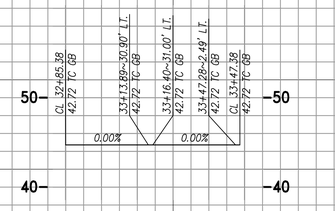
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 26

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

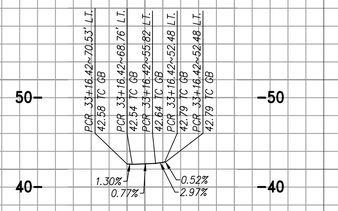
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 27

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

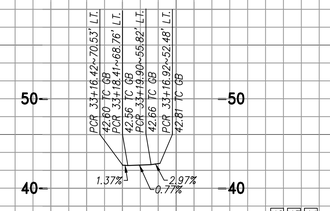
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 12 11 10 / 15

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

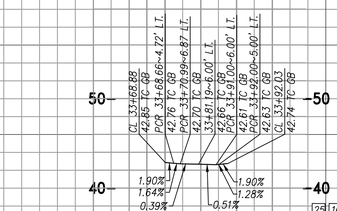
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 12 13 14 / 15

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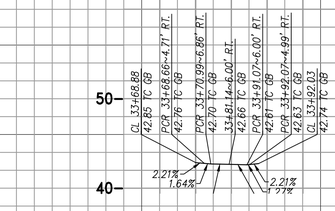
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 18 19 20 / 25 16 17

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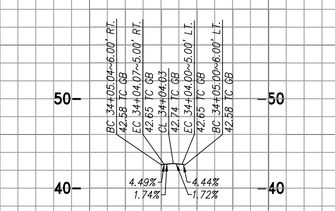
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 22 21 20 / 25 24 23

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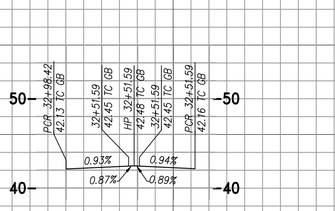
SEE SHEET 38 FOR PLAN VIEW



TOP OF CURB PROFILE 33 34 35

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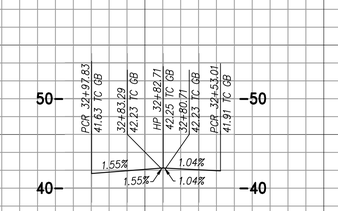
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 13 14 15

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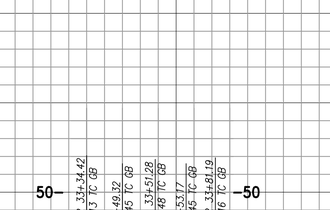
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 5 4 3

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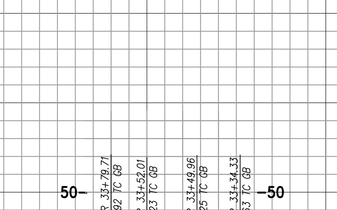
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 18 19 20

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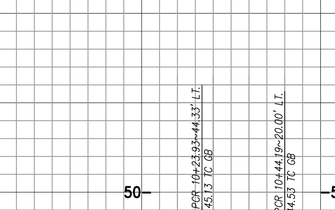
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 8 7 6

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

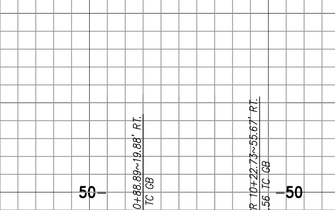
SEE SHEET 32 FOR PLAN VIEW



TOP OF CURB PROFILE 11

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

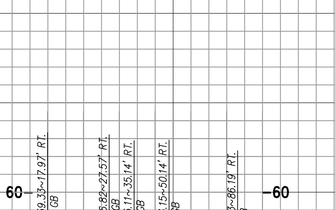
SEE SHEET 37 FOR PLAN VIEW



TOP OF CURB PROFILE 1

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

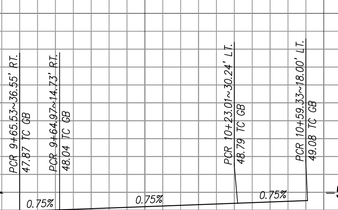
SEE SHEET 37 FOR PLAN VIEW



TOP OF CURB PROFILE 4 3 2

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

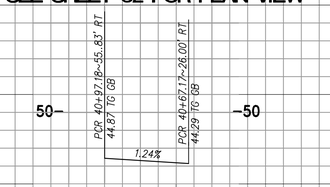
SEE SHEET 36 FOR PLAN VIEW



TOP OF CURB PROFILE 8 9 10

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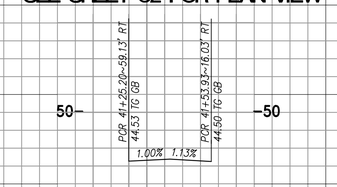
SEE SHEET 36 FOR PLAN VIEW



TOP OF CURB PROFILE 3

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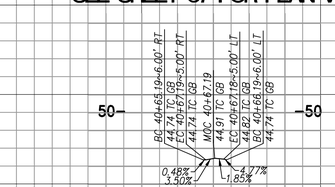
SEE SHEET 33 FOR PLAN VIEW



TOP OF CURB PROFILE 5

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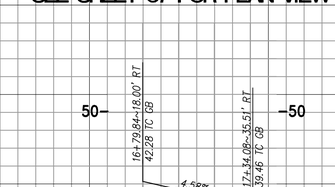
SEE SHEET 33 FOR PLAN VIEW



TOP OF CURB PROFILE 5

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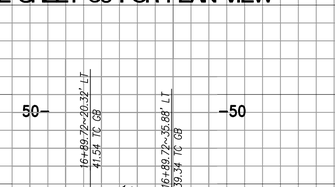
SEE SHEET 33 FOR PLAN VIEW



TOP OF CURB PROFILE 6

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

SEE SHEET 36 FOR PLAN VIEW



TOP OF CURB PROFILE 19 20

SCALE: 1"=40' HORIZONTAL, 1"=8' VERTICAL

SEE SHEET 36 FOR PLAN VIEW

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SHEET 40 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

CURB INFORMATION FOR:

OCEAN KAMP-OCEANSIDE

APPROVED

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

ENGINEER OF WORK

MARINA N. WURST R.C.E. C67517 DATE

Checked By:

Date:

PLAN NUMBER G24-00022

PRIVATE TRAFFIC IMPROVEMENT PLANS
OCEAN KAMP - LOOP ROAD NORTH OCEANSIDE, CA
BETWEEN STATION 27+11.16 AND STATION 44+00

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS (SHEETS 43 THRU 45)

1. ALL DETAILS AND DIMENSIONS FOR TRAFFIC STRIPES AND MARKINGS SHALL CONFORM TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MAINTENANCE MANUAL. THE LATEST VERSION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) , AND PAVEMENT STRIPES SHALL CONFORM TO SECTION 310-5.6 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
2. TRAFFIC LINE PAINT SHALL BE RAPID DRY CONFORMING TO SECTION 210-1.6.3 AND SHALL CONTAIN REFLECTIVE MATERIAL CONFORMING TO SECTION 210-1.6.5 OF THE STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL FURNISH THE NECESSARY CONTROL POINTS FOR ALL STRIPING AND MARKINGS, AND SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY THEREOF TO THE SATISFACTION OF THE ENGINEER.
4. REFLECTORIZED PAVEMENT MARKERS SHALL BE INSTALLED ON ALL LANE LINES AND CENTERLINE STRIPING PER APPROPRIATE CALTRANS "DETAIL NUMBER." BLUE REFLECTORIZED PAVEMENT MARKER FOR FIRE HYDRANT LOCATION TO BE INSTALLED PER CALIFORNIA MUTCD, FIG. 3B-102(CA). PAVEMENT MARKERS SHALL CONFORM TO SECTION 85, "PAVEMENT MARKERS" OF THE CALTRANS STANDARD SPECIFICATIONS, AND THESE SPECIAL PROVISIONS. PAVEMENT MARKER HEIGHT SHALL BE 0.70-INCH MINIMUMS. "LOW PROFILE" TYPE MARKERS WILL NOT BE ACCEPTABLE.
5. NOTHING IN THESE SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITIES AS PROVIDED IN SECTIONS 7-1.09, "PUBLIC SAFETY," OF THE CALTRANS STANDARD SPECIFICATIONS, SECTION 7-10 OF THE GREEN BOOK.
6. USE HOT APPLIED "THERMOPLASTIC" MATERIAL FOR CROSSWALKS, TURN ARROWS, LEGENDS, AND LIMIT LINES. SEE SECTION 84-2 OF CALTRANS STANDARD SPECIFICATIONS (2018).
7. PAINTING TRAFFIC STRIPES (TRAFFIC LINES) AND PAVEMENT MARKINGS SHALL CONFORM TO SECTIONS 84-1, "GENERAL". AND 84-3, "PAINTED TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CALTRANS STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
8. CONTROL OF ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER.
9. SECTION 84-3.02, "MATERIALS", OF THE STANDARD SPECIFICATIONS IS AMENDED TO READ: PAINT FOR TRAFFIC STRIPES, CROSSWALKS AND PAVEMENT ARROWS SHALL CONFORM TO THE FOLLOWING STATE SPECIFICATIONS:

   PAINT STATE SPECIFICATION NO.
   a. RAPID DRY WATER-BORNE, #PTWB-01 WHITE, YELLOW AND BLACK DECEMBER 2003

   b. GLASS BEADS SHALL CONFORM TO STATE SPEC. NO. 8010-51J-22 (TYPE III)
10. COPIES OF STATE SPECIFICATIONS FOR TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CA. 95819-0128, TELEPHONE (916)739-2400 OR AT HTTP://WWW.DOT.CA.GOV/HQ/ESC/TTSB/CHEMICAL/SPECPTWB-01(DEC03).PDF.
11. THINNING OF PAINT WILL NOT BE ALLOWED.
12. PAINT SHALL BE TESTED PRIOR TO USE, OR THE MANUFACTURER SHALL PROVIDE THE ENGINEER WITH A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 6-107, "CERTIFICATE OF COMPLIANCE", OF THE STANDARD SPECIFICATIONS. SAID CERTIFICATE SHALL CERTIFY THAT THE PAINT COMPLIES WITH THE SPECIFICATIONS AND THAT PAINT MANUFACTURED TO THE SAME FORMULATION AND PROCESS HAS PREVIOUSLY PASSED STATE TESTING. A LIST OF MANUFACTURERS THAT HAVE PRODUCED PAINT MEETING STATE SPECIFICATIONS IS AVAILABLE FROM THE STATES TRANSPORTATION LABORATORY. (MATERIAL SUPPLIED BY MANUFACTURERS OTHER THAN THOSE THAT HAVE MANUFACTURED APPROVED PAINT WILL REQUIRE COMPLETE TESTING).
13. THE SECOND PARAGRAPH IN SECTION 84-3.03 "MIXING" OF THE STANDARD SPECIFICATIONS IS DELETED.
14. ON NEW SURFACING, THE FIRST COAT OF PAINT FOR TRAFFIC STRIPING SHALL BE APPLIED NO LATER THAN 24 HOURS FOLLOWING COMPLETION OF ROLLING. THE SECOND COAT SHALL BE COMPLETED NO LATER THAN 4:00 P.M. OF THE FOLLOWING WORK DAY.
15. THE CONTRACTOR WILL BE REQUIRED TO PAINT TRAFFIC STRIPES AND PAVEMENT MARKINGS AND INSTALL RAISED PAVEMENT MARKERS PER CALTRANS STANDARD PLANS. ALL NEW SANDBLASTING OF REDUNDANT STRIPING SHALL BE COMPLETED WITHIN 48 HOURS OF THE CHANGES.
16. INSIDE DIMENSION OF ALL CROSSWALKS TO BE 10 FEET. (CVD-TR01 & CVD-TR05)
17. EXISTING TRAFFIC STRIPES AND MARKINGS THAT DO NOT CONFORM TO THE PLANS SHALL BE REMOVED BY SANDBLASTING AS SHOWN ON PLANS.
18. CONTRACTOR IS RESPONSIBLE TO VERIFY THE LINEAL FOOTAGE OF STRIPING TO BE REMOVED. ALL SANDBLASTED AREAS SHALL BE REPAVED BY APPLYING A SEAL COAT OR OTHER APPROVED METHODS IN ORDER TO RESTORE THE PAVEMENTS EXISTING CONDITION. SPOTTING SHALL BE COMPLETED PRIOR TO THE REMOVAL OF ANY EXISTING STRIPES. EXISTING STRIPES AND MARKINGS SHALL BE REMOVED PRIOR TO PAINTING NEW ONES, BUT IN NO CASE SHALL ANY SECTION OF STREET BE LEFT WITHOUT PROPER STRIPING FOR MORE THAN 24 HOURS, OR OVER WEEKENDS OR HOLIDAYS.
19. CONTRACTOR SHALL REMOVE PAVEMENT LEGENDS/MARKINGS, TRAFFIC STRIPING, AND ASSOCIATED RAISED PAVEMENT MARKERS AS SHOWN ON THE PLANS. EXISTING RAISED PAVEMENT MARKERS, WHEN ADJACENT TO A PAINT STRIPE, WHICH IS TO BE REMOVED, SHALL BE REMOVED AND DISPOSED OF.
20. IF FOR ANY REASON, THERE WILL BE A PERIOD OF TIME AFTER REMOVAL OF EXISTING STRIPING AND PAINTING OF NEW STRIPING, DURING WHICH PUBLIC TRAFFIC WILL USE ALL OR A PORTION OF ANY ROADWAY IN THE PROJECT AREA, THE CONTRACTOR SHALL PROVIDE TEMPORARY DELINEATION WITH "CHIP SEAL MARKERS," WHITE (ONE WAY), TYPE W, AND YELLOW (TWO WAY), TYPE Y, TEMPORARY PAVEMENT MARKERS, BOTH TYPES WITH REFLECTIVE STRIPS: OR APPROVED EQUAL). THESE MARKERS SHALL BE EITHER WHITE OR YELLOW, AS DIRECTED BY THE PUBLIC WORKS INSPECTOR, AND SHALL BE AT MAXIMUM 24-FOOT CENTERS. THE MARKER WILL BE PLACED EITHER ON THE OLD LINES, WHICH WERE JUST REMOVED, OR ON THE NEW LINES LAID OUT BY THE CONTRACTOR, AS DIRECTED BY THE CITY ENGINEER. THE FURNISHING AND INSTALLING OF THESE MARKERS SHALL BE IN ADDITION TO ANY OTHER DELINEATION (CONES, SIGNS, BARRICADES, ETC.), WHICH ARE REQUIRED FOR PUBLIC SAFETY. AFTER CONTRACTOR HAS PAINTED THE NEW STRIPING, CONTRACTOR SHALL REMOVE AND DISPOSE OF THESE TEMPORARY PAVEMENT MARKERS.
21. ALL SIGNS REMOVED AND SALVAGED SHALL BE DELIVERED TO THE CITY OF OCEANSIDE YARD, REMOVE ABANDONED FOUNDATIONS TO A DEPTH OF 6" BELOW EXISTING SURFACE GRADE OR 30" BELOW GRADE IN DIRT AREAS.

"DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THIS PLAN COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULLY RESPONSIBLE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHTICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

CIVIL ENGINEER OF RECORD: _____
KALYAN C. YELLAPU R.C.E. 75023 DATE

REGISTERED PROFESSIONAL ENGINEER * KALYAN C. YELLAPU * 75023 Exp. Dec. 31, 2025 CIVIL * STATE OF CALIFORNIA *

811 Know what's below. Call 811 before you dig.

LLG LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
New Logo > Same Team (858)300-8800

LLG 3-246721.1	LLG-6721-Ocean Kamp RRFB PRVT SS-TS-1A.dwg	Date: 5/29/2025
Designed By: MBF	Drawn By: DAB	Checked By: 20/10

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WORK TO BE DONE (SHEET 43 THRU 46)

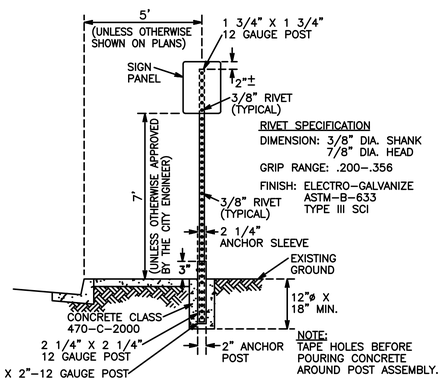
THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF OCEANSIDE.

STANDARD SPECIFICATIONS:

1. THE CITY OF OCEANSIDE STANDARD SPECIAL PROVISIONS (XXXXXXX 20XX)
2. STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (2023 EDITION OR LATEST APPROVED VERSION)
3. U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, MUTCD 11th EDITION, DATED JANUARY 18, 2024.
4. STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS (2023 EDITION OR LATEST APPROVED VERSION)
5. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREEN BOOK" (2021 EDITION) INCLUDING REGIONAL SUPPLEMENT AMENDMENTS "WHITE BOOK" (2021 EDITION)
6. CITY OF OCEANSIDE DESIGN AND CONSTRUCTION STANDARDS (2004 EDITION OR LATEST APPROVED VERSION)
7. CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014 EDITION, REV. 8, DATED JANUARY 11, 2024)
8. OCEANSIDE SUBDIVISION MANUAL (XXXXXX 20XX)

TRAFFIC SIGNAL GENERAL NOTES (SHEET 46 ONLY)

1) ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE 2023 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS.
2) UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. ANY DAMAGES CAUSED TO THE UNDERGROUND FACILITIES AND ALL COSTS ASSOCIATED WITH THOSE DAMAGES AND REPAIR COST SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY.
3) THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE All PHASES OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED.
4) CONDUCTORS AND POLE SCHEDULES ARE FURNISHED AS INSTALLATION GUIDES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT EQUIPMENT REQUIRED FOR INTENDED OPERATION.
5) THE CITY TRAFFIC ENGINEER OR HIS/HER DESIGNEE SHALL APPROVE POLE FOUNDATIONS, POLES, LOOP DETECTOR, LOCATION OF CONDUIT RUNS, AND CABINET PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
6) FINAL METHOD OF INSTALLED CONDUIT TO BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE CITY TRAFFIC ENGINEER BASED ON BEST INSTALLATION PER PLANS AND FIELD VERIFICATION OF EXISTING CONDITIONS.
7) DURING CONSTRUCTION OF PROPOSED CONDUIT, SIC SHOULD BE DISCONNECTED FROM ONE END, REMOVED FROM CONDUIT, AND STORED SECURELY. ONCE THE PROPOSED CONDUIT CONSTRUCTION HAS BEEN COMPLETED REPULL SIC AND RECONNECT. COIL EXCESS SIC SLACK IN VAULTS.
8) AT LOCATIONS WHERE PULLBOXES HAVE BEEN REMOVED, BACKFILL AND MATCH TO EXISTING GRADE. IF STREET PAVEMENT SECTION HAS BEEN REMOVED, MATCH TO EXISTING IN KIND PER CITY DETAILS M-2 AND M-3A/M-3B/M-3C.IF LANDSCAPING IS DISTURBED IT SHALL BE REPLACED IN KIND.
9) FOR ANY DISTURBANCE OF SIDEWALK, OR ANY SURFACE MATERIALS IN PUBLIC RIGHT OF WAY, CONTRACTOR SHALL REPLACE IN KIND TO MATCH EXISTING SURFACE.
10) CONTRACTOR SHALL PULL NEW #8 STRANDED GROUND WIRE TO ALL EXISTING AND NEW RIGID OR PVC CONDUITS PER N.E.C. CODE. NEW GROUND WIRE SHALL BE BONDED TO EXISTING STEEL POLES.



INSTALL PER SAN DIEGO REGIONAL STANDARD DRAWING M-45

SIGN MOUNTING DETAIL
NO SCALE

TRAFFIC SIGNAL BID NOTES (SHEET 46 ONLY)

A. CITY STANDARDS, CALTRANS STANDARD SPECIFICATIONS, AND 2022 CALTRANS STANDARD PLANS SHALL BE REFERRED TO AS PART OF THE CONTRACT REQUIREMENTS. CALTRANS CURRENT STANDARD SPECIAL PROVISIONS SHALL BE UTILIZED AS THE BASE FOR CONTRACT PREPARATION.

B. IN ADDITION TO THE REQUIRED, APPLICABLE, CALTRANS SPECIAL PROVISIONS, THE FOLLOWING CITY SPECIAL PROVISIONS SHALL BE INCLUDED, WHERE APPLICABLE:

1. CONTRACTOR SHALL MAINTAIN EXISTING AND TEMPORARY ELECTRICAL SYSTEMS. WHEN TRAFFIC SIGNAL SYSTEMS ARE DE-ENERGIZED, THEY SHALL BE LIMITED TO PERIODS BETWEEN THE HOURS OF 9:00 AM TO 3:00 PM, MONDAY THROUGH FRIDAY, OR OTHERWISE APPROVED BY TRAFFIC ENGINEERING AND/OR CITY INSPECTOR.
2. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE'S PUBLIC WORKS DEPARTMENT: TRANSPORTATION ENGINEER DIVISION AND ELECTRICAL DEPARTMENT, THROUGH THE CITY INSPECTOR, A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO DE-ENERGIZING ANY TRAFFIC SIGNAL SYSTEM. THE CITY WILL CONTACT OCEANSIDE POLICE DEPARTMENT DISPATCH.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE'S PUBLIC WORKS DEPARTMENT, TRANSPORTATION DIVISION, AND ELECTRICAL DEPARTMENT, THROUGH THE CITY INSPECTOR, A MINIMUM OF FORTY-EIGHT (48) HOURS BEFORE REQUIRING ACCESS TO ANY CITY CABINET FOR ANY WORK REQUIRED.
4. PLANNED POWER OUTAGES SCHEDULED BY CONSTRUCTION PROJECTS REQUIRE FOURTEEN (14) DAY NOTICE TO THE CITY OF OCEANSIDE'S PUBLIC WORKS DEPARTMENT TO REVIEW FOR MANPOWER NEEDS AND COSTS.
5. CONTRACTOR SHALL PLACE "STOP AHEAD" AND "STOP" SIGNS FOR ALL INTERSECTION APPROACHES TO DIRECT VEHICLE TRAFFIC THROUGH THE INTERSECTION DURING TRAFFIC SIGNAL SYSTEM SHUTDOWN, OR DURING PLANNED POWER OUTAGES. TEMPORARY "STOP AHEAD" AND "STOP" SIGNS SHALL BE EITHER COVERED OR REMOVED WHEN THE SYSTEM IS TURNED ON.
6. "STOP AHEAD" AND "STOP" SIGNS ARE REQUIRED DURING TESTING OF NEW TRAFFIC SIGNAL INSTALLATION AND CONTRACTOR IS REQUIRED TO MAKE SURE STRIPING HAS BEEN ESTABLISHED (ESPECIALLY AT STOP BARS/LIMIT LINES).
7. NIGHT WORK WILL BE SCHEDULED WHEN REQUIRED BY THE CITY. WHEN NIGHT WORK IS REQUIRED BY THE CITY, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE TEMPORARY LIGHTING TO ACCOMMODATE THE NEEDS OF BOTH THE PEDESTRIAN AND VEHICULAR TRAFFIC. TYPICAL NIGHT WORK HOURS ARE 9:00 PM TO 5:00 AM MONDAY THROUGH FRIDAY, OR OTHERWISE APPROVED BY TRAFFIC ENGINEERING AND/OR CITY INSPECTOR. CITY NOISE ORDINANCE WILL BE ENFORCED.
8. CONTRACTOR WILL BE REQUIRED TO PAY COSTS OF OVERTIME OR EXTRA PERSONNEL FOR CONTROLLING TRAFFIC AT DARK INTERSECTIONS.
9. THE CONTRACTOR SHALL HAVE A REPRESENTATIVE FROM THE CONTROLLER MANUFACTURER, AND ALL OTHER REPRESENTATIVE'S NECESSARY TO SUPPORT THE SIGNAL PRESENT AT THE SIGNAL TURN-ON.
10. THE INITIAL SIGNAL TURN-ON SHALL BE BETWEEN 9:00 AM AND 2:00 PM, MONDAY TO THURSDAY, UNLESS SPECIFIED OTHERWISE IN WRITING BY A TRANSPORTATION ENGINEER, AND TRAFFIC ENGINEERING SHALL BE GIVEN A MINIMUM OF A WEEK NOTICE WHEN THE SIGNAL IS SCHEDULED TO BE ENERGIZED.
11. A COMPLETE SET OF "AS-BUILT" PLANS OR RECORD DRAWINGS SHALL BE DELIVERED TO THE TRANSPORTATION ENGINEERING DIVISION UPON COMPLETION OF WORK, INCLUDING ELECTRONIC FILE FOR "AS-BUILT" PLANS OR RECORD DRAWINGS.
12. ALL MATERIAL LISTS, MANUFACTURERS' WARRANTIES, GUARANTEES, BROCHURES AND MANUALS SHALL BE SUBMITTED IN A BOUND BINDER PRIOR TO ACCEPTANCE OF PROJECT.
13. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND THE CABINET TO THE CITY OF OCEANSIDE CITY OPERATION CENTER (4927 OCEANSIDE BOULEVARD) TWO WEEKS PRIOR TO INSTALLATION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HARDWARE INSTALLED. WARRANTY STARTS ONCE AS BUILT PLANS ARE ACCEPTED AND APPROVED BY THE CITY. THE CONTRACTOR IS RESPONSIBLE TO ADDRESS ANY EQUIPMENT/HARDWARE ISSUES THAT OCCUR UP TO AND THROUGH WARRANTY TIME PERIOD.

SHEET INDEX

SHEET 41: PRIVATE TRAFFIC IMPROVEMENTS TITLE SHEET, NOTES, AND DETAILS
SHEET 42: PRIVATE SIGNING & STRIPING PLAN LOOP RD NORTH – (STA. 27+11.16 TO STA. 37+00)
SHEET 43: PRIVATE SIGNING & STRIPING PLAN LOOP RD NORTH – (STA. 37+00 TO STA. 44+00), STREET "B", & OCEAN POINTE RD.
SHEET 44: PRIVATE ROUNDABOUT SIGNING PLAN – LOOP RD NORTH AT STREET "A"
SHEET 45: PRIVATE TRAFFIC SIGNAL RRFB PLAN – LOOP RD NORTH AT STA. 33+16.38

NO.	APPROVED REVISIONS	BY	DATE

CITY NAVD88 BENCHMARK
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76
Record From: CITY OF OCEANSIDE ROS NO.21787
Elev. 33.87 FEET Datum: NAVD 88

WDID NO. EDDA NO. FILE NO.

SHEET 41	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE TRAFFIC IMPROVEMENT TITLE SHEET FOR:
OCEAN KAMP-OCEANSIDE
PRIVATE ROADS - LOOP RD NORTH, STREET "B", & OCEAN POINTE RD

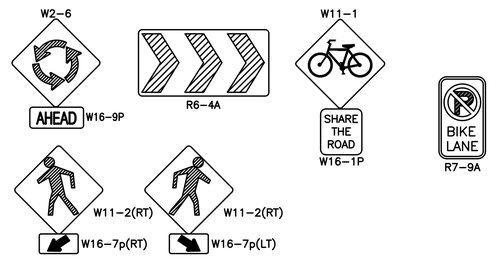
ACCEPTED BY
CITY ENGINEER: Brian K. Thomas P.E. 60907 Date:

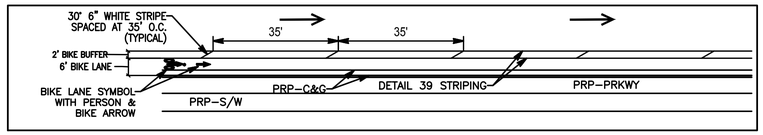
Prepared under the direction of:
Sign:
PRINT Name: KALYAN C YELLAPU Date

Reviewed By:
Initials: Date

PLAN NUMBER
G24-00022

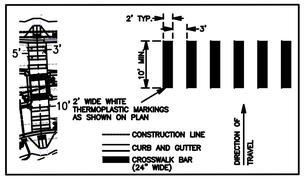
PROPOSED TRAFFIC SIGNS (THIS SHEET ONLY)



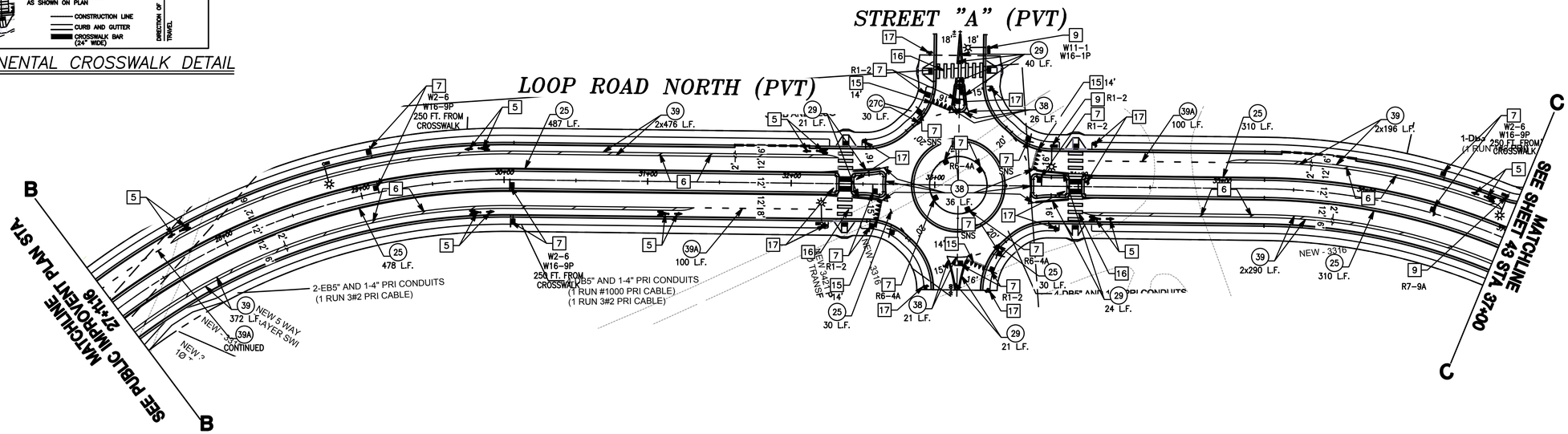


DETAIL "A" BUFFERED BIKE LANE

LOOP ROAD NORTH – STA. 37+00 TO 44+00
SCALE: 1" = 20'



CONTINENTAL CROSSWALK DETAIL



CALTRANS STANDARD PLANS (THIS SHEET ONLY)

(25) INSTALL YELLOW LEFT EDGE LINE STRIPING PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 25.

(27C) INSTALL WHITE "RIGHT EDGE LINE THROUGH INTERSECTION" STRIPING PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 27C.

(29) INSTALL YELLOW MEDIAN ISLAND PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 29.

(38) INSTALL 8" WHITE CHANNELIZING LINE PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 38.

(39) INSTALL 6" WHITE BIKE LANE STRIPING PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 39.

(39A) INSTALL WHITE DASHED INTERSECTION BIKE LANE STRIPING PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 39A.

CONSTRUCTION NOTES (THIS SHEET ONLY)

[1] REFRESH EXISTING STRIPING WHERE INDICATED ON THE PLAN.

[5] INSTALL WHITE THERMOPLASTIC "BIKE LANE SYMBOL WITH PERSON" PAVEMENT MARKING WITH BIKE ARROW PAVEMENT MARKING. REF: 2023 CALTRANS STANDARD PLAN A24A & A24C.

[6] INSTALL WHITE 6" 30 DEGREE ANGLE STRIPES IN THE NOTED BIKE BUFFERS ON THE PLAN. 35' SPACING ON CENTER. REF: DETAIL "A" FOR BOTH SIDES OF LOOP ROAD NORTH (PRIVATE)

[7] FURNISH & INSTALL TRAFFIC SIGN PANEL & POST AS INDICATED ON THE PLAN.

[9] INSTALL TRAFFIC SIGN PANEL TO STREET LIGHT AS INDICATED ON THE PLAN. REF: CALTRANS STANDARD PLAN RS4, "INSTALLATION ON ELECTROLIER, SIGNAL STRUCTURE, OR SIGN STRUCTURE POST".

[11] REMOVE & DISPOSE OF EXISTING CONFLICTING SIGN.

[15] INSTALL WHITE THERMOPLASTIC "YIELD" LIMIT LINE PER 2023 CALTRANS STANDARD PLAN A24G.

[16] INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER 2023 CALTRANS STANDARD PLAN A24F. SEE CONTINENTAL CROSSWALK DETAIL ABOVE LEFT.

[17] FURNISH & INSTALL RECTANGULAR RAPID FLASHING BEACON WITH W11-2/W16-7 TRAFFIC SIGN & POST. SEE SHEET 45 AND 46 FOR RRFB PLANS.

[MX] MATCH EXISTING STRIPING AS INDICATED.

LEGEND (THIS SHEET ONLY)

- EXISTING STRIPING TO BE REMOVED
- EXISTING STRIPING
- PROPOSED STRIPING
- EXISTING ROADSIDE SIGN
- PROPOSED ROADSIDE SIGN
- EXISTING THERMOPLASTIC PAVEMENT ARROW
- EXISTING THERMOPLASTIC PAVEMENT ARROW TO BE REMOVED
- INSTALL WHITE THERMOPLASTIC "BIKE LANE SYMBOL WITH PERSON" PAVEMENT MARKING AS INDICATED
- INSTALL WHITE THERMOPLASTIC "YIELD" LIMIT LINE AS INDICATED. (XX' = NUMBER OF LINEAR FEET)
- INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PAVEMENT MARKING AS INDICATED PER CALTRANS STANDARD DRAWING A24G.
- (XX) XXX L.F.: CALTRANS STRIPING DETAIL NUMBERS (REF: 2023 CALTRANS STANDARD DRAWINGS A20A THRU A20D) XXX L.F. = NUMBER OF LINEAR FEET OF STRIPING.
- [SB] SANDBLAST OR GRIND EXISTING CONFLICTING STRIPING & PAVEMENT MARKINGS
- [RS] REMOVE AND SALVAGE
- [RL] RELOCATE
- (TS) TRAFFIC SIGNAL
- DIRECTION OF TRAVEL
- SNS STREET NAME SIGN

"DECLARATION OF ENGINEER OF WORK"

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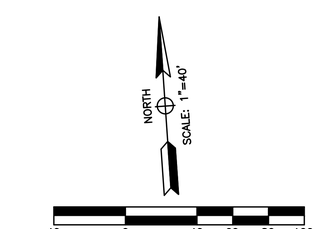
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CIVIL ENGINEER OF RECORD: _____
KALYAN C. YELLAPU R.C.E. 75023 DATE

REGISTERED PROFESSIONAL ENGINEER * KALYAN C. YELLAPU * 75023 * Exp. Dec. 31, 2025 * CIVIL * STATE OF CALIFORNIA

LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
New Logo > Same Team (858)300-8800

LLG 3-246721.1	LLG-6721-Ocean Kamp RRFB PRVT SS-TS-1A.dwg	Date: 5/29/2025
Designed By: MBF	Drawn By: DAB	Checked By: ZO/KG



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NO.	APPROVED REVISIONS	BY	DATE

CITY NAVD88 BENCHMARK

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO.21787

Elev. 33.87 FEET Datum: NAVD 88

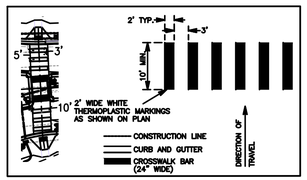
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SHEET 42	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

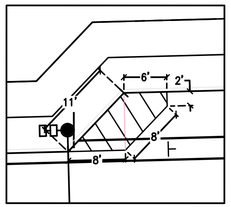
PRIVATE SIGNING & STRIPING PLANS FOR:
OCEAN KAMP-OCEANSIDE
NORTH LOOP ROAD (PVT)
STA 27+11.16 TO STA 37+00

ACCEPTED BY
CITY ENGINEER: Brian K. Thomas P.E. 60907 Date:

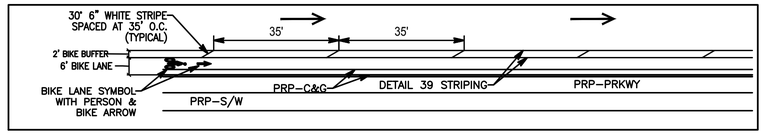
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Sign: PRINT Name: KALYAN C YELLAPU Date	Initials: Date	G24-00022



CONTINENTAL CROSSWALK DETAIL



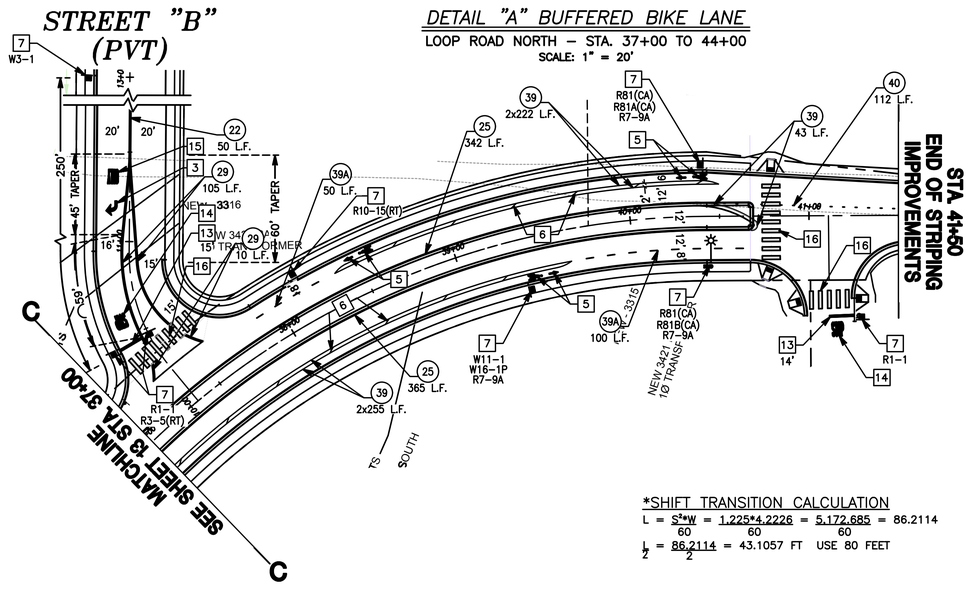
DETAIL "B" – END PARKING HATCH (THIS SHEET ONLY)



DETAIL "A" BUFFERED BIKE LANE

LOOP ROAD NORTH – STA. 37+00 TO 44+00

SCALE: 1" = 20'

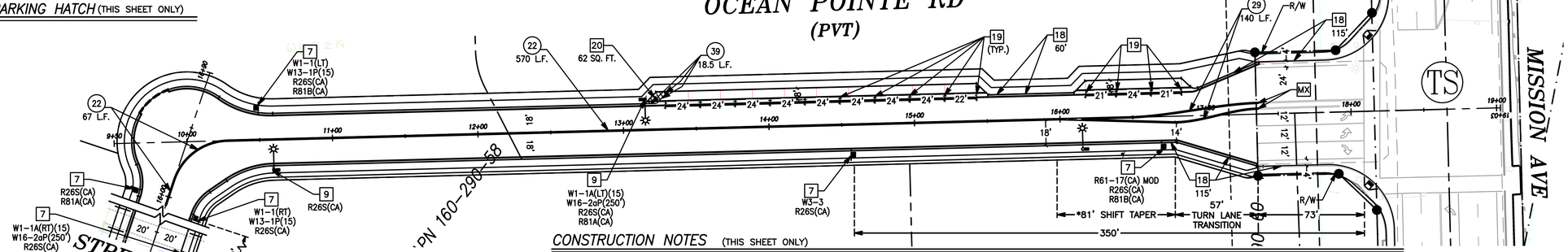


*SHIFT TRANSITION CALCULATION

$L = \frac{S^2 * W}{60} = \frac{1.225^2 * 4.2226}{60} = \frac{5.172685}{60} = 86.2114$

$\frac{L}{2} = \frac{86.2114}{2} = 43.1057$ FT USE 80 FEET

OCEAN POINTE RD (PVT)

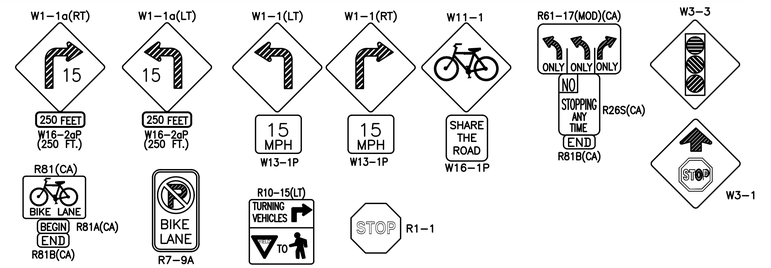


NORTH

SCALE: 1"=40'

40 0 40 60 80 100

PROPOSED TRAFFIC SIGNS (THIS SHEET ONLY)



CALTRANS STANDARD PLANS (THIS SHEET ONLY)

(22) INSTALL DOUBLE YELLOW CENTERLINE STRIPING PER 2023 CALTRANS STANDARD PLAN A20A, DETAIL 22.

(25) INSTALL YELLOW LEFT EDGE LINE STRIPING PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 25.

(27C) INSTALL WHITE "RIGHT EDGE LINE THROUGH INTERSECTION" STRIPING PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 27C.

(29) INSTALL YELLOW MEDIAN ISLAND PER 2023 CALTRANS STANDARD PLAN A20B, DETAIL 29.

(38) INSTALL 8" WHITE CHANNELIZING LINE PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 38.

(39) INSTALL 6" WHITE BIKE LANE STRIPING PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 39.

(39A) INSTALL WHITE DASHED INTERSECTION BIKE LANE STRIPING PER 2023 CALTRANS STANDARD PLAN A20D, DETAIL 39A.

LEGEND (THIS SHEET ONLY)

- PROPOSED STRIPING
- PROPOSED ROADSIDE SIGN
- INSTALL WHITE THERMOPLASTIC TYPE IV(RT) PAVEMENT ARROW AS INDICATED ON THE PLAN.
- INSTALL WHITE THERMOPLASTIC "BIKE LANE SYMBOL WITH PERSON" PAVEMENT MARKING AS INDICATED
- INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PAVEMENT MARKING AS INDICATED PER CALTRANS STANDARD DRAWING A24G.
- INSTALL 12" WIDE WHITE THERMOPLASTIC LIMIT LINE PAVEMENT MARKING AS INDICATED ON THE PLAN PER CALTRANS STANDARD DRAWING A24G. (XX' = NUMBER OF LINEAR FEET)
- STOP — INSTALL WHITE THERMOPLASTIC "STOP" PAVEMENT LEGEND AS INDICATED ON THE PLAN.
- ONLY — INSTALL WHITE THERMOPLASTIC "ONLY" PAVEMENT LEGEND AS INDICATED ON THE PLAN.
- PROPOSED WHITE PAINTED PARKING "BEGIN" MARKING
- PROPOSED WHITE PAINTED PARKING "T" MARKING
- PROPOSED WHITE PAINTED PARKING "END" MARKING
- (XX) XXX L.F. — CALTRANS STRIPING DETAIL NUMBERS (REF: 2023 CALTRANS STANDARD DRAWINGS A20A THRU A20D) XXX L.F. = NUMBER OF LINEAR FEET OF STRIPING.
- RS — REMOVE AND SALVAGE
- RL — RELOCATE
- TS — TRAFFIC SIGNAL
- DIRECTION OF TRAVEL

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. REFRESH EXISTING STRIPING WHERE INDICATED ON THE PLAN.
3. INSTALL WHITE THERMOPLASTIC TYPE IV(RT) PAVEMENT ARROW PER 2023 CALTRANS STANDARD PLAN A24A.
5. INSTALL WHITE THERMOPLASTIC "BIKE LANE SYMBOL WITH PERSON" PAVEMENT MARKING WITH BIKE ARROW PAVEMENT MARKING. REF: 2023 CALTRANS STANDARD PLAN A24A & A24C.
6. INSTALL WHITE 6" 30 DEGREE ANGLE STRIPES IN THE NOTED BIKE BUFFERS ON THE PLAN. 35' SPACING ON CENTER. REF: DETAIL "A" FOR BOTH SIDES OF LOOP ROAD NORTH (PRIVATE)
7. FURNISH & INSTALL TRAFFIC SIGN PANEL & POST AS INDICATED ON THE PLAN.
9. INSTALL TRAFFIC SIGN PANEL TO STREET LIGHT AS INDICATED ON THE PLAN. REF: CALTRANS STANDARD PLAN RS4, "INSTALLATION ON ELECTROLIER, SIGNAL STRUCTURE, OR SIGN STRUCTURE POST".
11. REMOVE & DISPOSE OF EXISTING CONFLICTING SIGN.
13. INSTALL WHITE THERMOPLASTIC 12" WIDE LIMIT LINE STRIPING PER 2023 CALTRANS STANDARD PLAN A24G.
14. INSTALL WHITE THERMOPLASTIC "STOP" PAVEMENT MARKING PER 2023 CALTRANS STANDARD PLAN A24D.
15. INSTALL WHITE THERMOPLASTIC "ONLY" PAVEMENT LEGEND PER 2023 CALTRANS STANDARD PLAN A24D.
16. INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER 2023 CALTRANS STANDARD PLAN A24F. SEE CONTINENTAL CROSSWALK DETAIL ABOVE LEFT.
18. PAINT CURB RED.
19. CONTRACTOR SHALL INSTALL FOUR (4") WIDE WHITE PARKING STALL STRIPING WHERE NOTED ON THE PLAN. END SPOTS SHALL BE A LAID DOWN "T", MIDDLE SPOTS SHALL HAVE A CROSS. EACH TICK OF THE "T" OR "CROSS" SHALL BE ONE (1') FOOT MAXIMUM IN LENGTH. REF: 2014 CAMUTCD, REV. 8, FIGURE 3B-21(CA), THIRD GRAPHIC DOWN THE SHEET. (PAGE 750)
20. CONTRACTOR SHALL INSTALL 6" WIDE DIAGONAL STRIPING AT THE END OF THE NOTED PARKING HATCHED AREAS AS INDICATED. SEE DETAIL "B" ON THIS SHEET FOR DIMENSIONS.

"DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THIS PLAN COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULLY RESPONSIBLE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBLITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABLITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHTICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

CIVIL ENGINEER OF RECORD: KALYAN C. YELLAPU R.C.E. 75023 DATE

REGISTERED PROFESSIONAL ENGINEER — KALYAN C. YELLAPU — 75023 — Exp. Dec. 31, 2025 — CIVIL — STATE OF CALIFORNIA

LLG LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
New Logo > Same Team (858)300-8800

LLG 3-246721.1	LLG-6721-Ocean Kamp RRFB PRVT SS-TS-1A.dwg	Date: 5/29/2025
Designed By: MBF	Drawn By: DAB	Checked By: 20/10

90% PRELIMINARY
NOT FOR CONSTRUCTION

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NO.	APPROVED REVISIONS	BY	DATE

CITY NAVD88 BENCHMARK

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO.21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. EDDA NO. FILE NO.

SHEET 43	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE SIGNING & STRIPING PLANS FOR:
OCEAN KAMP-OCEANSIDE
OCEAN POINTE RD (PVT)
STREET "B" (PVT) & LOOP ROAD NORTH (PVT)

ACCEPTED BY

CITY ENGINEER: Brian K. Thomas P.E. 60907 Date:

Prepared under the direction of:
Sign:
PRINT Name: KALYAN C YELLAPU Date

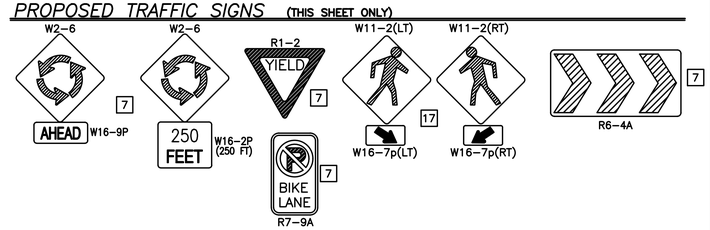
Reviewed By:
Initials: Date

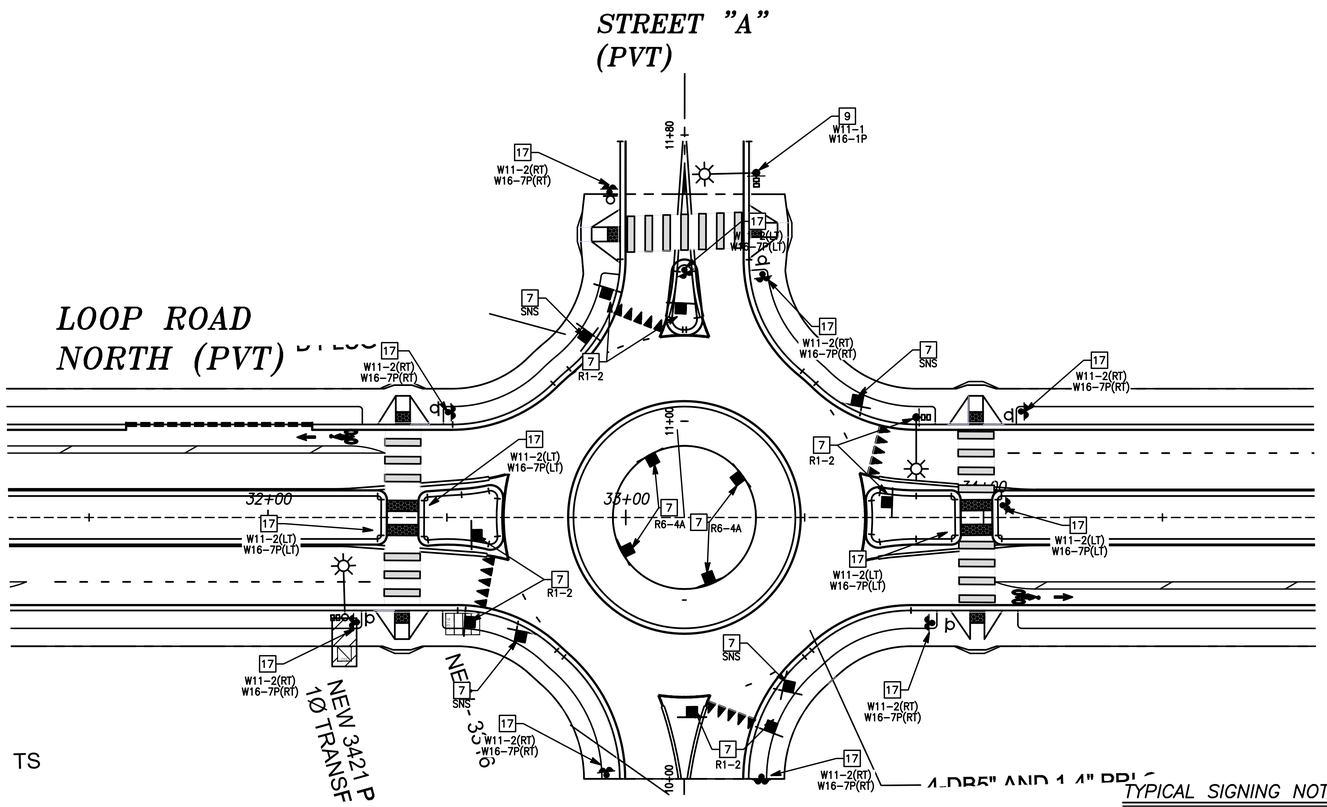
PLAN NUMBER G24-00022

LEGEND (THIS SHEET ONLY)

	PROPOSED STRIPING
	PROPOSED ROADSIDE SIGN
PRP	PROPSED
C&G	CURB & GUTTER
S/W	SIDEWALK
PRKWY	PARKWAY
R/W	RIGHT OF WAY
	RECTANGULAR RAPID FLASHING BEACON

PROPOSED TRAFFIC SIGNS (THIS SHEET ONLY)





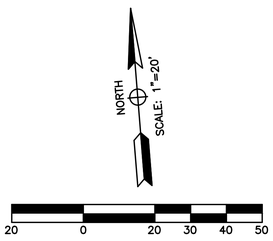
TYPICAL SIGNING NOTES (THIS SHEET ONLY)

7 FURNISH & INSTALL TRAFFIC SIGN PANEL & POST AS INDICATED ON THE PLAN.

8 RELOCATE EXISTING TRAFFIC SIGN PANEL & POST(S) AS INDICATED ON THE PLAN.

9 INSTALL TRAFFIC SIGN PANEL TO STREET LIGHT AS INDICATED ON THE PLAN. REF: CALTRANS STANDARD PLAN RS4, "INSTALLATION ON ELECTROLIER, SIGNAL STRUCTURE, OR SIGN STRUCTURE POST".

17 FURNISH & INSTALL RECTANGULAR RAPID FLASHING BEACON WITH W11-2/W16-7 TRAFFIC SIGN & POST. SEE TRAFFIC SIGNAL PLAN TS-7.



"DECLARATION OF ENGINEER OF WORK"

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CIVIL ENGINEER OF RECORD: _____
KALYAN C. YELLAPU R.C.E. 75023 DATE

REGISTERED PROFESSIONAL ENGINEER
KALYAN C. YELLAPU
75023
Exp. Dec. 31, 2025
CIVIL
STATE OF CALIFORNIA

LINSCOTT, LAW & GREENSPAN, ENGINEERS
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NO.	APPROVED REVISIONS	BY	DATE

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Elev. 33.87 FEET Datum: NAVD 88

WDID NO. EDDA NO. FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
44		

PRIVATE SIGNING & STRIPING PLANS FOR:
OCEAN KAMP-OCEANSIDE
FOUSSET RD - TYPICAL ROUNDABOUT SIGNING
ALEX RD,LOOP RD NORTH(PVT),STREET "A"(PVT)

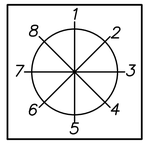
ACCEPTED BY

CITY ENGINEER: Brian K. Thomas P.E. 60907 Date:

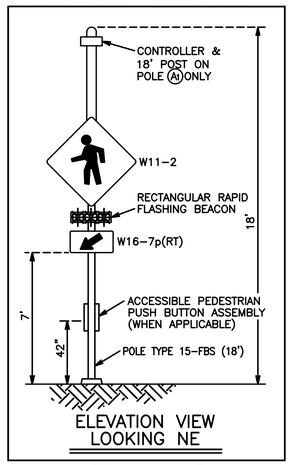
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Sign: PRINT Name: KALYAN C YELLAPU Date	Initiales Date	G24-00022

○ EQUIPMENT SCHEDULE

LOC.	STANDARD TYPE	PLACEMENT DIMENSIONS A STA.	PLACEMENT DIMENSIONS B OFF FOC	PPB LOC.	REMARKS
A1	TYPE 15-FBS (18')	32+25.58	3.25'	3	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE WITH CONTROLLER PER DETAIL "A" THIS SHEET. [2][4][5]
A2	1-A (12')	32+31.21	3'	3	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(LT) SIGNS WITH A RECTANGULAR RAPID FLASHING BEACON ON A TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
B1	1-A (12')	32+49.44	3.25'	7	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
B2	1-A (12')	32+44.06	3'	7	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(LT) SIGNS WITH A RECTANGULAR RAPID FLASHING BEACON ON A TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
C	1-A (12')	11+64 PVT. ST.	3'	5	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
D1	1-A (12')	11+42 PVT. ST.	3.5'	1	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
D2	1-A (12')	11+42.36 PVT. ST.	3	NO	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(LT) SIGNS WITH A RECTANGULAR RAPID FLASHING BEACON ON A TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][5]
E1	1-A (12')	34+09.72	3.5'	7	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
E2	1-A (12')	34+04.42	3'	7	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(LT) SIGNS WITH A RECTANGULAR RAPID FLASHING BEACON ON A TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
F1	1-A (12')	33+96.64	3'	3	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
F2	1-A (12')	33+86.52	3.5'	3	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(LT) SIGNS WITH A RECTANGULAR RAPID FLASHING BEACON ON A TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
G	1-A (12')	10+00.63 PVT. ST.	4.58'	5	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]
H	1-A (12')	10+01.04 PVT. ST.	4.58'	5	ALL NEW EQUIPMENT INSTALL W11-2, W16-7p(RT) SIGN & RECTANGULAR RAPID FLASHING BEACON ON TYPE 1-A POLE PER DETAIL "B" THIS SHEET. [3][4][5]

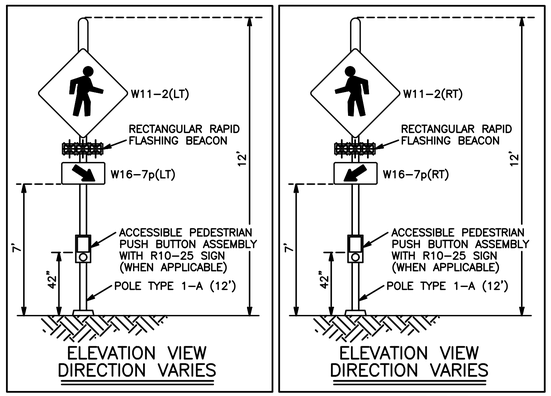


PUSH BUTTON LOCATION DETAIL



DETAIL "A" – POLE A1 CONTROLLER & RRFB PLACEMENT [2][4][5]

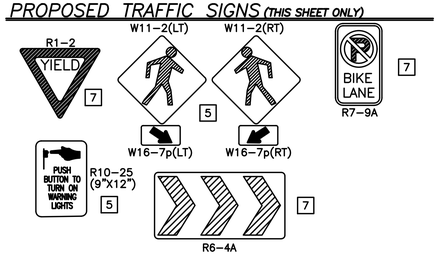
NOT TO SCALE



DETAIL "B" – TYPICAL RRFB PLACEMENT [3][4][5]

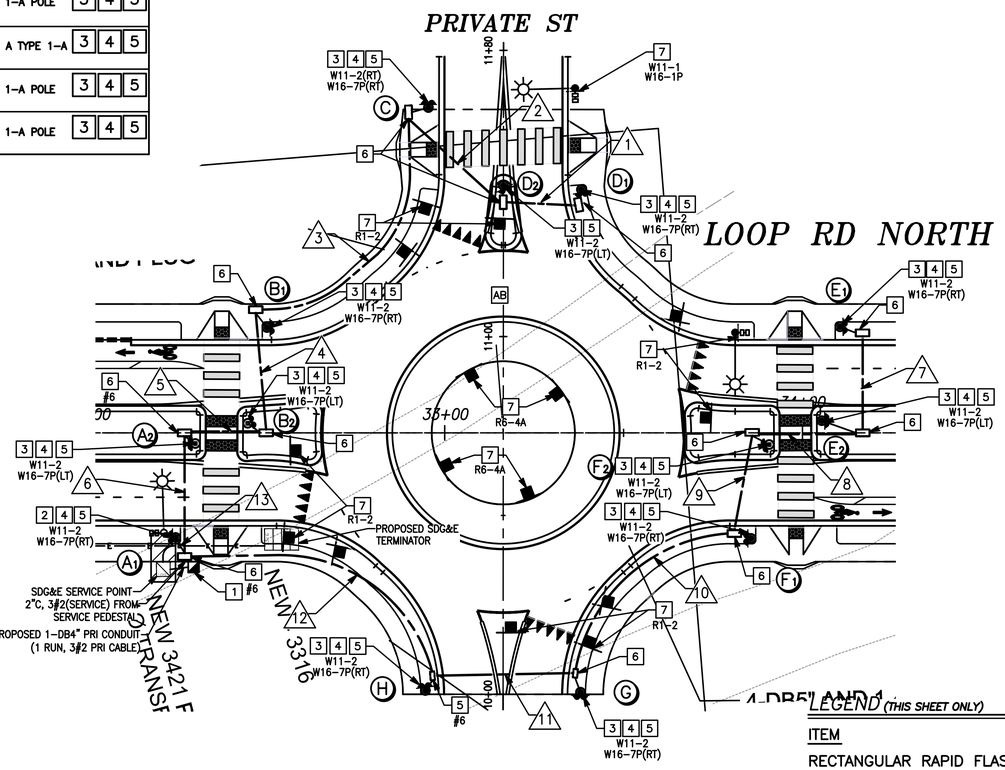
NOT TO SCALE

PROPOSED TRAFFIC SIGNS (THIS SHEET ONLY)



CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 2" 1	2" 2	2" 3	2" 4	2" 5	3" 6	2" 7	2" 8	2" 9	2" 10	2" 11	3" 12	3" 13
NO.14 CABLES		POLE – A1													1 0
C		POLE – A2						1 0							1 0
O	C	POLE – B1				1 0	1 0	1 0							1 0
N	O	POLE – B2					1 0	1 0							1 0
D 3	N	POLE – C			1 0	1 0	1 0	1 0							1 0
U	D	POLE – D1	1 0	1 0	1 0	1 0	1 0	1 0							1 0
C	U	POLE – D2		1 0	1 0	1 0	1 0	1 0							1 0
T 12	C	POLE – E1							1 0	1 0	1 0	1 0	1 0	1 0	1 0
O	T	POLE – E2							1 0	1 0	1 0	1 0	1 0	1 0	1 0
R	O	POLE – F1										1 0	1 0	1 0	1 0
	R	POLE – F2									1 0	1 0	1 0	1 0	1 0
		POLE – G											1 0	1 0	1 0
		POLE – H												1 0	1 0
TOTAL CABLES – 3 CON / 12 CON			1 0	2 0	3 0	4 0	5 0	6 0	1 0	2 0	3 0	4 0	5 0	6 0	13 0
10		RRFB	2	2	2	2	2	2	2	2	2	2	2	2	2
8		GROUND	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL CONDUCTORS / CABLES			4	5	6	7	8	9	4	5	6	7	8	9	16
CONDUIT FILL PERCENTAGE			3.7%	5%	6.3%	7.5%	8.8%	6.7%	3.7%	5%	6.3%	7.5%	8.8%	6.7%	12.7%



CONSTRUCTION NOTES (THIS SHEET ONLY)

[1] FURNISH & INSTALL TYPE III-BF SIGNAL AND LIGHTING SERVICE ENCLOSURE PER SDG&E REQUIREMENTS WITHIN 10 FEET OF THE SDG&E SERVICE POINT. PROVIDE 50A-1P, 120V SIGNAL METERED CIRCUIT BREAKER, 15A-1P, AND 30A-1P, 120V LIGHTING UNMETERED CIRCUIT BREAKER. SERVICE CABINET SHALL BE FABRICATED FROM ANODIZED ALUMINUM SHEET PER CALTRANS SPECIFICATIONS. FACE PEDESTAL TOWARD THE STREET AND MAINTAIN 3' X 3' CLEARANCE. CONTRACTOR IS TO PROVIDE TRENCH, 3-INCH CONDUIT, PULL TAPE, BACKFILL COMPACTION, AND SURFACE REPAIR FROM NEW METER PEDESTAL TO CONTROLLER/POLE A1's PULLBOX.

[2] FURNISH AND INSTALL ELECTRICAL POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM. SYSTEM SHALL INCLUDE TAPCO CONTROLLER (OR APPROVED EQUAL), MOUNTED ON A TYPE 15-FBS POLE A1 (18' HIGH) WITH FOUNDATION. LIGHTBAR CONSTRUCTION SHALL BE BI-DIRECTIONAL CONFIGURATION. SEE DETAIL "A" ON THIS SHEET.

[3] FURNISH AND INSTALL ELECTRICAL POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH SIGNS & PEDESTRIAN PUSH BUTTONS ON TYPE 1-A POLES (12' HIGH) WITH FOUNDATIONS. SEE DETAIL "B" ON THIS SHEET.

[4] POLARA XAV2E-LED OR APPROVED EQUAL PUSH BUTTON ASSEMBLY (POLARA APS iN2 OR APPROVED EQUAL) WITH R10-25 SIGN. PUSH BUTTON ASSEMBLY SHALL INCLUDE A PROGRAMMABLE "WALK" TONE MESSAGE AND VIBROTATILE INDICATION. WALK MESSAGE AND SHOULD BE PROGRAMMED TO SPEAK TWICE DURING EACH ACTIVATION. THE PUSH BUTTON ASSEMBLY SHALL BE MOUNTED PER CALTRANS STANDARD PLAN ES-5C.

[5] CONTRACTOR SHALL FURNISH AND INSTALL POLE-MOUNTED SIGN PER CALTRANS STANDARD PLANS RS4 AS SHOWN ON PLAN. SIGN PLACEMENT AND ORIENTATION SHALL BE INDICATED ON PLAN AS SHOWN.

[6] INSTALL TRAFFIC SIGNAL PULL BOX AS INDICATED ON THE PLAN. INSTALLATION SHALL BE PER 2023 CALTRANS STANDARD PLAN ES-8B. ALL PULL BOXES SHALL BE #5 UNLESS NOTED ON THE PLAN.

[7] PROPOSED TRAFFIC SIGN(S) FROM SIGNING & STRIPING PLANS.

LEGEND (THIS SHEET ONLY)

ITEM	SYMBOL
RECTANGULAR RAPID FLASHING BEACON (RRFB)	
PROPOSED TYPE 15-FBS POLE & FOUNDATION WITH TRAFFIC SIGN	
PROPOSED TYPE 1-A POLE & FOUNDATION WITH TRAFFIC SIGN	
PROPOSED TAPCO CONTROLLER	
PROPOSED CONDUIT	
PULL BOX	
PROPOSED SERVICE PEDESTAL	
RIGHT OF WAY	

"DECLARATION OF ENGINEER OF WORK"

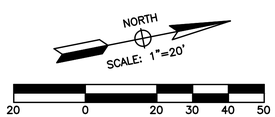
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AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHTICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

CIVIL ENGINEER OF RECORD: _____

KALYAN C. YELLAPU R.C.E. 75023 DATE

REGISTERED PROFESSIONAL ENGINEER – KALYAN C. YELLAPU – 75023 – Exp. Dec. 31, 2025 – CIVIL – STATE OF CALIFORNIA



LLG LINSCOTT, LAW & GREENSPAN, ENGINEERS
4542 Ruffner Street, Suite 100
San Diego, Ca 92111
New Logo > Same Team (858)300-8800

LLG 3-246721.1	LLG-6721-Ocean Kamp RRFB PRVT SS-TS-1A.dwg	Date: 5/29/2025
Designed By: MBF	Drawn By: DAB	Checked By: 20/10

90% PRELIMINARY
NOT FOR CONSTRUCTION

DISCLAIMER: THE INFORMATION PROVIDED BY LINSCOTT, LAW & GREENSPAN, ENGINEERS VIA ELECTRONIC MEDIA, IS NOT GUARANTEED OR WARRANTED AGAINST ANY DEFECTS, INCLUDING DESIGN, CALCULATIONS, DATA TRANSLATION, TRANSMISSION OF ERRORS OR OMISSIONS. THIS DRAWING IS PRODUCED FOR REVIEW PURPOSES ONLY AND IS SUBJECT TO CHANGE. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL FINAL PLANS ARE ISSUED AND THIS NOTE HAS BEEN REMOVED.

NO.	APPROVED REVISIONS	BY	DATE

CITY NAVD88 BENCHMARK

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO.21787

Elev. 33.87 FEET Datum: NAVD 88

WDID NO. EDDA NO. FILE NO.

SHEET 45	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS

PRIVATE RECTANGULAR RAPID FLASHING BEACON PLAN FOR:
OCEAN KAMP-OCEANSIDE
FOUSSET RD AT PRIVATE ST STA. 33+16.38
RRFB TRAFFIC SIGNAL PLAN

ACCEPTED BY

CITY ENGINEER: Brian K. Thomas P.E. 60907 Date:

Prepared under the direction of:
Sign:
PRINT Name: KALYAN C YELLAPU Date

Reviewed By:
Initials: Date

PLAN NUMBER G24-00022

STREET LIGHTING PLAN FOR
OCEAN KAMP - PRIVATE
OCEANSIDE, CA

SHEET INDEX

SHEET #	DESCRIPTION
46	TITLE SHEET & GENERAL NOTES
47	ELECTRICAL PLAN
48	ELECTRICAL PLAN
49	ELECTRICAL PLAN
50	DETAILS

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY, PACIFIC TELEPHONE AND TELEGRAPH COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS SUBDIVISION ARE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLE, GAS PIPING AND TELEPHONE CABLES AND APPURTENANCES, CONTACT UNDERGROUND SERVICE ALERT: 1-800-422-4133. ALSO REFER TO CITY STANDARD.
2. A PERMIT SHALL BE OBTAINED FROM THE CITY ENGINEERING DEPARTMENT FOR WORK WITHIN EXISTING CITY RIGHTS-OF-WAY.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED. (TELEPHONE NUMBER: (760) 435-5081).
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS), THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS AND CITY OF OCEANSIDE ENGINEER'S MANUAL AND CALTRANS STANDARD PLANS AND PROVISIONS.
5. PAVEMENT SECTIONS SHOWN, ARE TO BE VERIFIED BY "R" VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT; TO BE SUBMITTED BY SOILS ENGINEER AFTER UNDERGROUND UTILITIES CONSTRUCTION IS COMPLETE, FOR CITY ENGINEER'S APPROVAL.
6. ALL METALS PLACED IN THE GROUND SHALL BE ENCASED IN 6" OF NEUTRAL SAND.
7. CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS IS REQUIRED PER G-9 AND G-10 (S.D.R.S.D.).
8. ALL UNDERGROUND UTILITIES LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN .1' OF THE DESIGN.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
10. SOILS REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTH WORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.
11. BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING M-13.
12. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS.
13. CENTERLINE MONUMENTS SHALL BE INSTALLED AT THE EC AND BC OF ALL CURVES, AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CUL-DE-SACS, AND AT THE ANGLE POINT OF OFFSET CUL-DE-SACS, PER S.D.R.S.D. M-10 AND M-11.
14. ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT, AND CAPPING.
15. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER.
16. STRIPING SHALL BE DONE BY THE CONTRACTOR AT DEVELOPER'S EXPENSE UNLESS OTHERWISE DIRECTED.
17. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BY SANDBLASTING BEFORE ANY NEW APPLICATION.
18. REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL STREET SIGNS SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING T-3 AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
19. ALL EXTERIOR LIGHTING SHALL COMPLY WITH CITY OF OCEANSIDE AND PROCEDURE "POLICY LIGHT POLLUTION ORDINANCE" DATED NOVEMBER 27, 2019, CLASS 1 LIGHTING.
20. PATCHING OF SIDEWALK IS NOT PERMITTED.
21. DAMAGED, GOUGED, BROKEN, OR GRAFFITI-MARKED SECTIONS OF CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED.
22. A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK TO SCORE MARK (TYPICALLY 5' X 5'). FOR SIDEWALKS EXCEEDING 5' WIDTH, REPLACEMENT IS TO BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
23. THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADMINISTERING AND MAINTAINING A CONFINED SPACE ENTRY PROGRAM IN ACCORDANCE WITH SECTIONS 5156, 5157, AND 5157 TITLE 8, CALIFORNIA CODE OF REGULATIONS (CCR).
24. THIS PROJECT SHALL COMPLY WITH THE 2019 EDITION OF THE CALIFORNIA ELECTRICAL CODE AND CALIFORNIA ENERGY CODE.

LEGEND

SDG&E SERVICE POINT. VERIFY EXACT LOCATION.

BELOW GROUND CONDUIT AND WIRES.

STREET LIGHT, 240 VOLT, 58 WATT LED. GENERAL ELECTRIC: ERL1-0-07-B3-30-A-GRAY-L. SEE DETAIL A SHEET 5 WITH NODE. POLE: AMERON 2B24

STREET LIGHT, 240 VOLT, 39 WATT LED. GENERAL ELECTRIC: ERL1-0-05-B3-30-A-GRAY-L. SEE DETAIL A SHEET 5 WITH NODE. POLE: AMERON 2B24

EXISTING INTERSECTION SAFETY LIGHT

CONCRETE UNDERGROUND PULL BOX PER CITY STANDARD DRAWING. SEE SPEC. 5 AND INSTALLATION DETAIL C SHEET 5

CONSTRUCTION NOTES

A. ALL 90 DEGREE ELBOWS TO BE FACTORY MADE BENDS.

B. STREET LIGHTING SYSTEM CONDUITS MAY BE JOINT TRENCH WITH PUBLIC UTILITY SYSTEM.

C. CONTRACTOR TO MAINTAIN PROPER SEPARATION AS REQUIRED BY THE UTILITY COMPANIES.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR ANY AND ALL UTILITY AND CITY INSPECTIONS.

E. ALL WORK TO CONFORM WITH THE 2019 CEC OR LATEST APPLICABLE CODE.

F. ALL EQUIPMENT TO BE LISTED BY A RECOGNIZED TESTING LAB (i.e., U.L., ETC.).

G. ALL CONDUIT SHALL BE BURIED AT A MINIMUM OF 24" COVER. REFER TO SAN DIEGO REGIONAL STANDARD DRAWING SDM-103.

H. ALL GROUND CONDUCTORS SHALL BE SPLICED TOGETHER WITH APPROVED CONNECTOR AT PULL BOXES AND CONNECTED TO GROUND LUG INSIDE POLE.

I. SEE STREET IMPROVEMENT PLAN FOR ROADWAY AND WATER IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.

J. CONTRACTOR SHALL CONTACT "DIG ALERT" FOR MARK-OUT PRIOR TO TRENCHING AS REQUIRED.

K. THESE PLANS ARE SCHEMATIC AND ARE FOR THE PURPOSE OF SHOWING HOW TO CONNECT THE ELECTRICAL SYSTEM. WHILE THE DRAWING IS AT ACTUAL SCALE, THE SYMBOLS REFERENCED ARE NOT, AND MAY APPEAR TO SHOW THE EQUIPMENT IN PLACES NOT INTENDED. THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY COMPANY SERVICE POINTS, POLES, PULL BOXES, SERVICE EQUIPMENT LOCATIONS AND OTHER ELECTRICAL APPURTENANCES AND VERIFY ALL LIGHT LOCATIONS WITH THE CITY PRIOR TO START OF CONSTRUCTION AND DURING STAKING. REFER TO LIGHT STANDARD DETAIL FOR STANDARDS.

L. NATIVE SOIL SHALL BE ACCEPTABLE FOR TRENCH BACK FILL PROVIDED THAT THE FILL MATERIAL USED SHALL PASS THROUGH A 1" SIEVE. THE CITY INSPECTORS RESERVE THE RIGHT TO REQUEST ALL TRENCHES BE SLURRY BACKFILLED. SEE TRENCH DETAIL G THIS SHEET.

M. ALL MATERIAL BROUGHT ONTO THE JOB SITE (ALL WIRE, CONDUIT, FITTINGS, PULL BOXES, ETCETERA) SHALL BE PURCHASED AS NEW.

N. INSTALL STREET LIGHT SERVICE PULLBOX WITH FUSES WITHIN 5' OF SDG&E SERVICE POINT. IF STREET LIGHT IS WITHIN 10' OF SDG&E SERVICE POINT, NO STREET LIGHT SERVICE PULLBOX SHALL BE REQUIRED. PULLBOX WITH STREET LIGHT SHALL SUFFICE.

SPECIFICATION SECTION

1. FUSE HOLDERS TO BE BUSSMAN TYPE 'HEB' OR APPROVED EQUAL, WITH WATERPROOF BOOTS AND SIZED FOR #8 CONDUCTORS, AT 120V.
2. ALL ELECTRICAL WIRING TO BE SOLID COPPER CONDUCTOR WITH MINIMUM #8 AWG, THWN/THHN INSULATION RATED AT 600 VOLTS.
3. ALL BELOW GRADE CONDUIT TO BE MINIMUM 2" PVC SCHEDULE 40 BEHIND CURB, AND ALL STREET CROSSINGS SHALL BE 2" MIN. SCH. 80.
4. ALL SPLICES BELOW GRADE SHALL ALL BE WATERPROOF AND EPOXY ENCAPSULATED. USE TYPE '3M' BAGS OR EQUAL.
5. ALL PULL BOXES TO BE CHRISTY TYPE 3 1/2 (10-1/2" X 17-1/2" X 12"D) FOR STREET LIGHTS OR EQUAL, WITH BOLT DOWN COVER MARKED "STREET LIGHTS". LEAVE 3' SLACK OF CONDUCTORS IN PULLBOX. SIZE PER SECTION 370-28, CEC. SEE DETAIL C SHEET 74.
6. ALL BELOW GRADE CONDUIT SHALL BE SEALED UPON COMPLETION OF INSTALLATION.
7. THE LIGHTING LUMINAIRE SHALL BE A COMPLETE ASSEMBLY OF LUMINAIRE AND POLE.
   B. THE POLE ASSEMBLY SHALL BE CONCRETE AND SUPPLIED IN ONE PIECE UNITIZED CONSTRUCTION. THE COMPLETE POLE ASSEMBLY SHALL BE COMPOSED OF THE FOLLOWING.
      1. POLE: SHALL BE CONCRETE, AMERON INTERNATIONAL, 2B26 FOR ANCHOR BOLT MOUNT PER CITY OF OCEANSIDE STREET LIGHT DESIGN MANUAL.
   C. LUMINAIRE SHALL BE A COMPLETE ASSEMBLY MOUNTED TO THE POLE WITH A MAST ARM AND COMPOSED OF THE FOLLOWING:
      LUMINAIRE: SEE LEGEND ON FRONT SHEET.
   D. CONTROL PRODUCTS:
      1. ADAPTIVE CONTROL NODE: GENERAL ELECTRIC: ELWN0A8UBAA-OSIDE
   E. SUBMIT SHOP DRAWING OF STREET LIGHTING LUMINAIRE.

ADDITIONAL NOTES

1. CONTRACTOR SHALL VERIFY ALL CONTRUCTION NOTES AND SPECIFICATIONS WITH THE "CITY OF OCENSIDE STREET LIGHT DESIGN POLICY MANUAL".
2. CONTRACTOR SHALL ALSO FOLLOW ALL APPLICABLE DESIGN AND INSTALLATION INTENT OF ALL BRIDGE RELATED CONSTRCTION STANDARDS AS CALL OUT IN THE CALTRANS STANDARD DRAWINGS AND SPECIFICATIONS DATED 2022.

"DECLARATION OF ENGINEER WORK"

I HEARBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVEIW FOR THIS LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT DETERMINATION OF THE TECHNICAL ADEQUCY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

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MARIO A. PEREZ — E-22246 — 05/22/25

DATE OF LICENSE ISSUANCE 9/30/10

AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, I HAVE SUPERVISED THE CONSTRUCTION OF THE ENGINEERING WORK AS SHOWN ON THESE PLANS INCLUDING THE PERIODIC OBSERVATION OF MATERIALS AND COMPLETED WORK TO DETERMINE GENERAL COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND THAT THE COMPLETED CONSTRUCTION IS IN CONFORMANCE WITH THESE PLANS.

ELECTRICAL ENGINEER OF RECORD: MARIO A. PEREZ E-22246

Underground Service Alert

CALL 811 — TWO WORKING DAYS BEFORE YOU DIG

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 6, EPOCH 2011.00 GRID BEARING BETWEEN CITY OF OCEANSIDE FIRST ORDER G.P.S. STATION NO. 1019 AND FIRST ORDER G.P.S. STATION NO. 2065 PER RECORD OF SURVEY NO. 21787.
BEARING FROM STATION 1019 TO 2065 IS: NORTH 5319'02" EAST

SOURCE & DATE OF TOPOGRAPHY

TERRASCRIBE AERIAL MAPPING
42471 ALPHA PLACE, TEMECULA CA, 92592 PH: 951-830-7425
DATE OF TOPOGRAPHY: SEPTEMBER 2023 NAVD 88

NO.	APPROVED REVISIONS	BY	DATE

ENGINEER OF WORK SEAL

REGISTERED PROFESSIONAL ENGINEER — MARIO A. PEREZ — E22246 — STATE OF CALIFORNIA

ENGINEER OF WORK COMPANY LOGO

VCL Visual Concepts Lighting — 858-270-4163 — www.visualconcepts-inc.com — 4858 Mercury St. Ste. 210 San Diego CA 92111

CITY NAVD88 BENCHMARK

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
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WDID NO. 9 37C386522 FILE NO.

SHEET	CITY OF OCEANSIDE ENGINEERING DIVISION	50 SHEETS
46		

STREET LIGHT PLAN FOR
OCEAN KAMP-OCEANSIDE

ACCEPTED BY

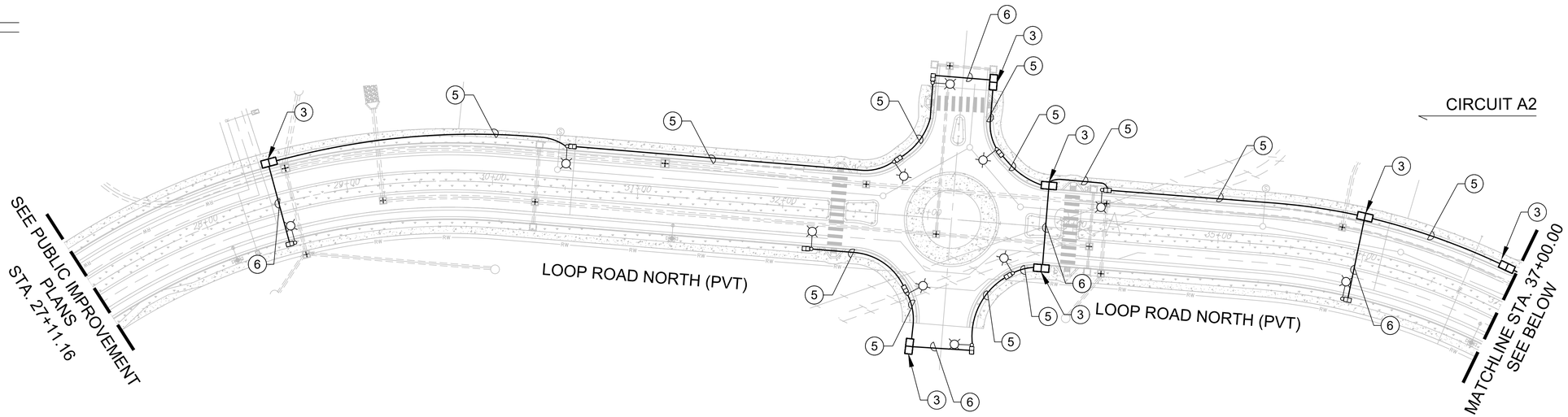
CITY ENGINEER: BRIAN K. THOMAS P.E. 60907 Date:

Prepared under the direction of — Sign: — Date: 05/22/25 — Reviewed By: — PLAN NUMBER

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PLAN NOTES

1. SDG&E STREET LIGHT SERVICE POINT.
2. STREET LIGHT SERVICE PULL BOX. ADD FUSE AND FUSE HOLDER FOR EACH NEW STREET LIGHT CIRCUIT.
3. UNDERGROUND CONCRETE PULL BOX. SEE SPEC. 5 SHEET 5.
4. PROVIDE 2" C-4#8, 1#10 GND. BURY 18" BELOW GRADE.
5. PROVIDE 2" C-2#8, 1#10 GND. BURY 18" BELOW GRADE.
6. PROVIDE 2" C-2#8, 1#10 GND. BURY 30" BELOW GRADE.



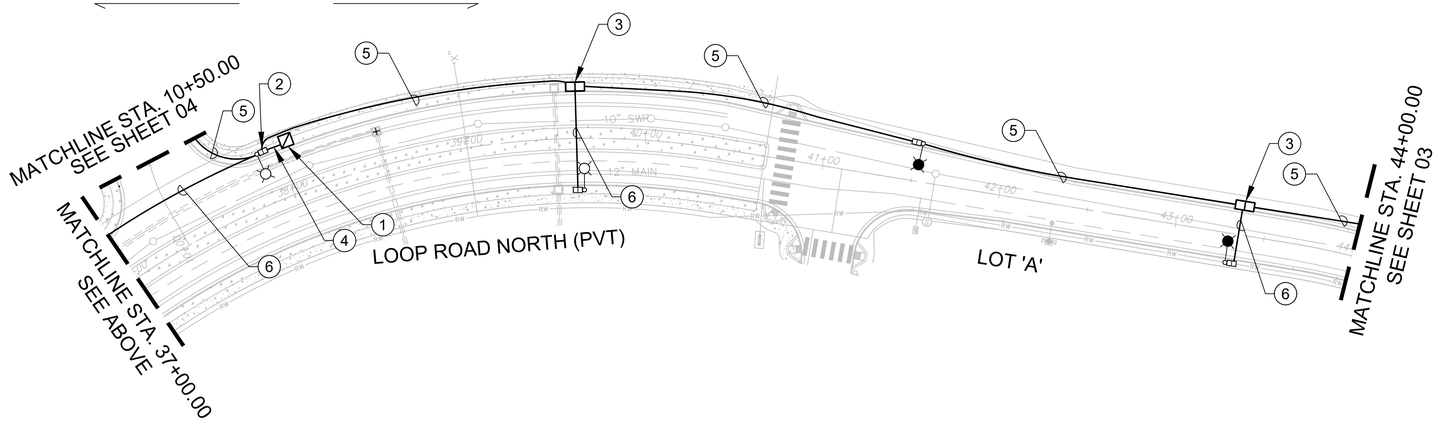
NORTH SCALE: 1"=40'-0"

VOLTAGE DROP CALCULATIONS FOR STREET LIGHTS WITH #8 WIRES. CIR. A1 @ 240V. (CITY STANDARD MAX. VD ACROSS CIRCUIT WILL NOT EXCEED 5%. LONGEST AND MOST HEAVILY LOADED CIRCUIT. ALL OTHERS ARE FINE)

TOTAL % VD = 1.96%VD

VOLTAGE DROP CALCULATIONS FOR STREET LIGHTS WITH #8 WIRES. CIR. A2 @ 240V. (CITY STANDARD MAX. VD ACROSS CIRCUIT WILL NOT EXCEED 5%. LONGEST AND MOST HEAVILY LOADED CIRCUIT. ALL OTHERS ARE FINE)

TOTAL % VD = 0.90%VD



NORTH SCALE: 1"=40'-0"

Underground Service Alert — CALL 811 — TWO WORKING DAYS BEFORE YOU DIG

NO.	APPROVED REVISIONS	BY	DATE

ENGINEER OF WORK SEAL — REGISTERED PROFESSIONAL ENGINEER — MARIO A. FERRER — E22246 — STATE OF CALIFORNIA

ENGINEER OF WORK COMPANY LOGO — VCL Visual Concepts Lighting — 858-270-4303 — www.visualconceptsinc.com — 4856 Mercury St. Ste 210 San Diego CA 92111

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SHEET 47 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

STREET LIGHT PLAN FOR

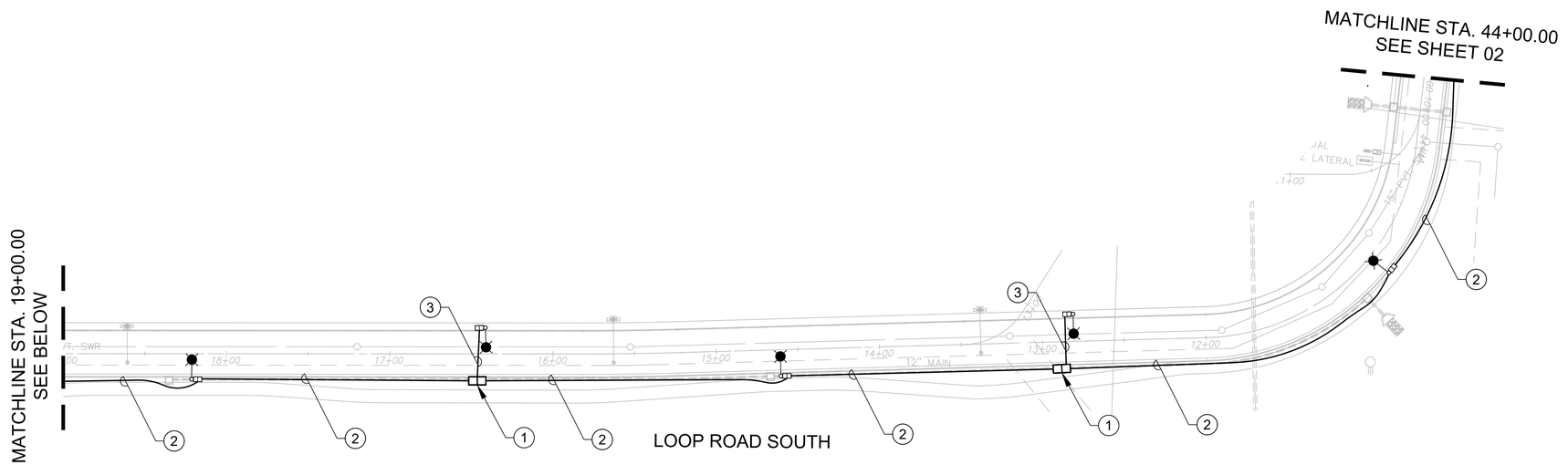
OCEAN KAMP-OCEANSIDE

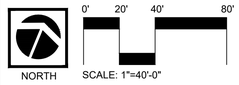
ACCEPTED BY

CITY ENGINEER: BRIAN K. THOMAS P.E. 60907 Date:

Prepared under the direction of — Signed: Date: 10/18/24 — Reviewed By: — PLAN NUMBER G24-00022

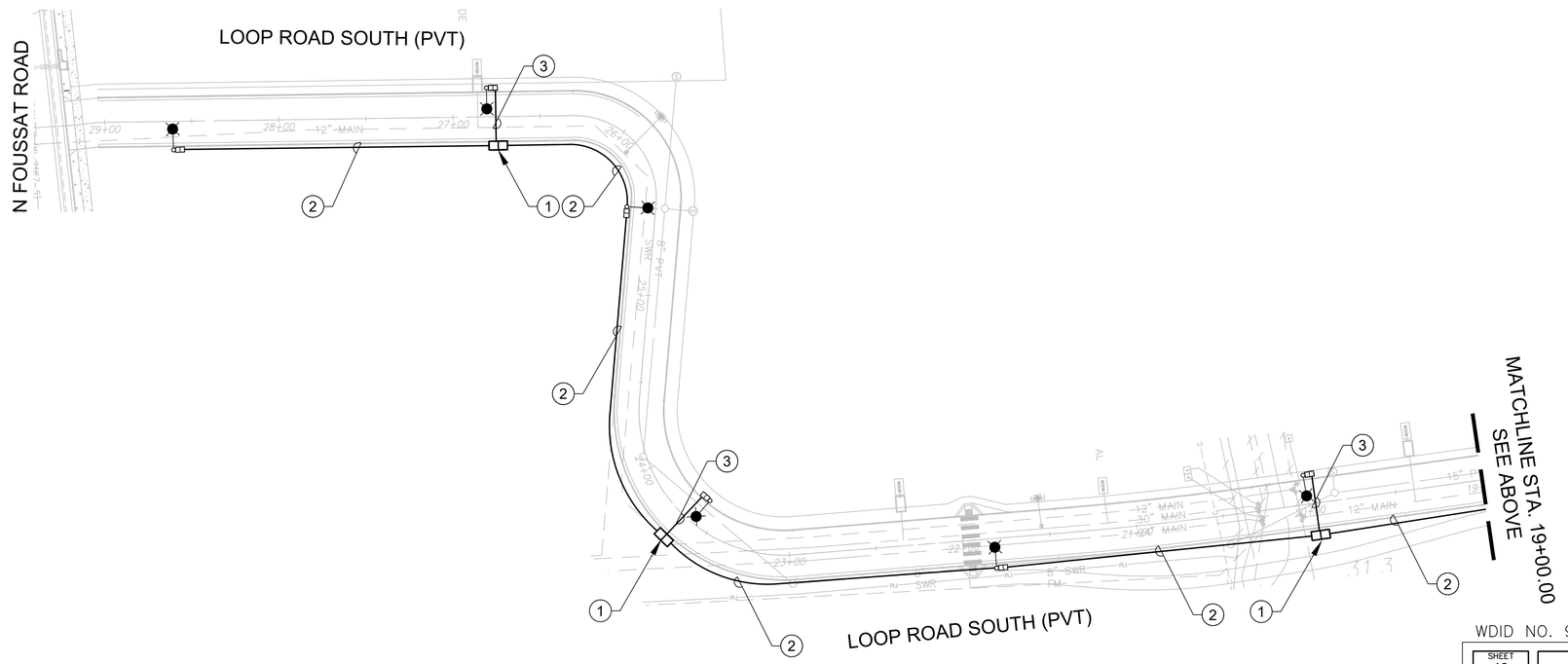
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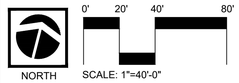




0' 20' 40' 80'

SCALE: 1"=40'-0"





0' 20' 40' 80'

SCALE: 1"=40'-0"

PLAN NOTES

1. UNDERGROUND CONCRETE PULL BOX. SEE SPEC. 5 SHEET 5.
2. PROVIDE 2" C-2#8, 1#10 GND. BURY 18" BELOW GRADE.
3. PROVIDE 2" C-2#8, 1#10 GND. BURY 30" BELOW GRADE.

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DIAL BEFORE YOU DIG CALL 811 TWO WORKING DAYS BEFORE YOU DIG				

ENGINEER OF WORK SEAL

REGISTERED PROFESSIONAL ENGINEER MARIO A. PEREZ E22246 STATE OF CALIFORNIA

ENGINEER OF WORK COMPANY LOGO

VCL Visual Concepts Lighting
858-270-4403
www.visualconceptsinc.com
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STREET LIGHT PLAN FOR

OCEAN KAMP-OCEANSIDE

ACCEPTED BY

CITY ENGINEER: BRIAN K. THOMAS P.E. 60907 Date:

Prepared under the direction of

Signed: Date: 10/18/24

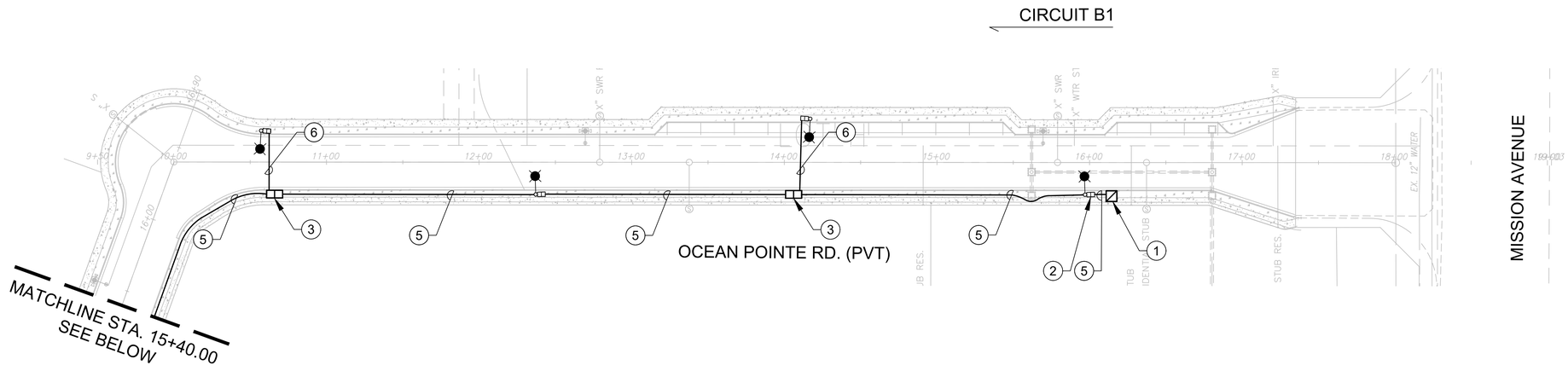
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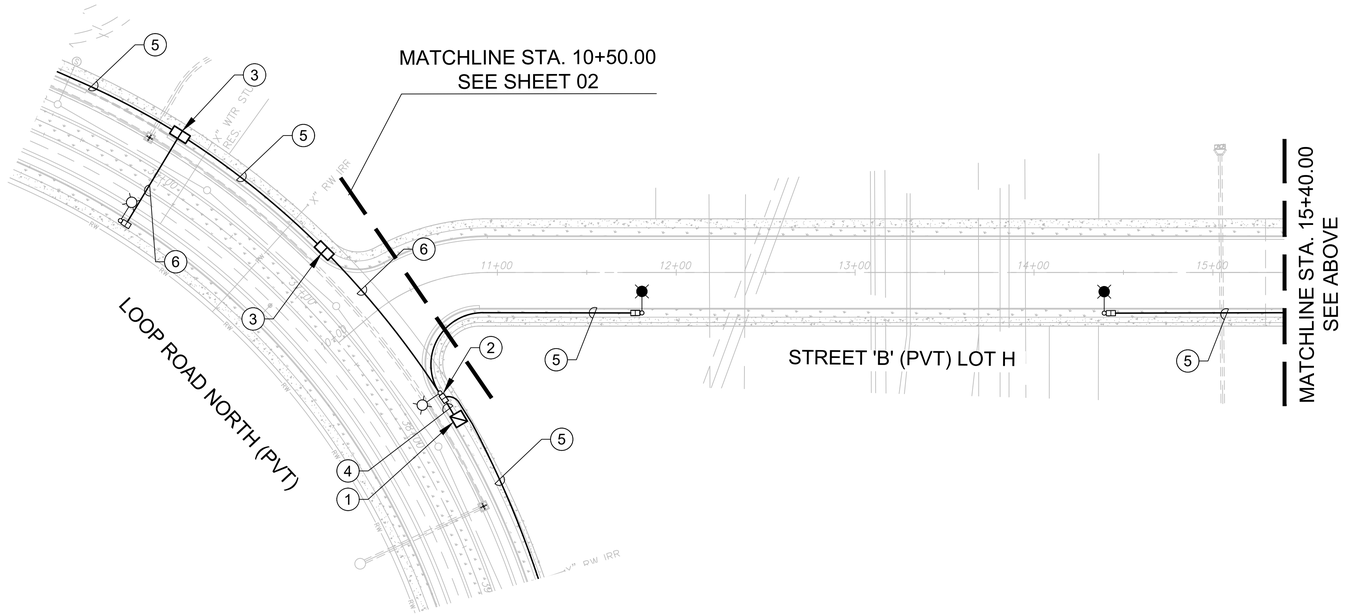
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VOLTAGE DROP CALCULATIONS FOR STREET LIGHTS WITH #8 WIRES. CIR. B1 @ 240V. (CITY STANDARD MAX. VD ACROSS CIRCUIT WILL NOT EXCEED 5%. LONGEST AND MOST HEAVILY LOADED CIRCUIT. ALL OTHERS ARE FINE)

TOTAL % VD = 0.19%VD



NORTH SCALE: 1"=40'-0"



PLAN NOTES

1. SDG&E STREET LIGHT SERVICE POINT.
2. STREET LIGHT SERVICE PULL BOX. ADD FUSE AND FUSE HOLDER FOR EACH NEW STREET LIGHT CIRCUIT.
3. UNDERGROUND CONCRETE PULL BOX. SEE SPEC. 5 SHEET 5.
4. PROVIDE 2" C-4#8, 1#10 GND. BURY 18" BELOW GRADE.
5. PROVIDE 2" C-2#8, 1#10 GND. BURY 18" BELOW GRADE.
6. PROVIDE 2" C-2#8, 1#10 GND. BURY 30" BELOW GRADE.

NORTH SCALE: 1"=40'-0"

Underground Service Alert — CALL 811 — TWO WORKING DAYS BEFORE YOU DIG

NO.	APPROVED REVISIONS	BY	DATE

ENGINEER OF WORK SEAL — REGISTERED PROFESSIONAL ENGINEER — MARIO A. PEREZ — E22246 — STATE OF CALIFORNIA

ENGINEER OF WORK COMPANY LOGO — VCL Visual Concepts Lighting

CITY NAVD88 BENCHMARK

Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"

Location: WEST SIDE OF FOUSSAT ROAD MID-WAY BETWEEN MISSION ROAD AND STATE HWY. 76

Record From: CITY OF OCEANSIDE ROS NO. 21787

Elev: 33.87 FT Datum: NAVD88

WDID NO. 9 37C386522 FILE NO.

SHEET 49 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

STREET LIGHT PLAN FOR

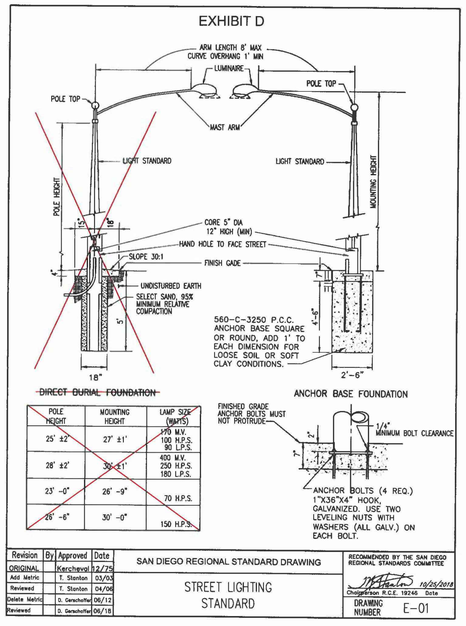
OCEAN KAMP-OCEANSIDE

ACCEPTED BY

CITY ENGINEER: BRIAN K. THOMAS P.E. 60907 Date:

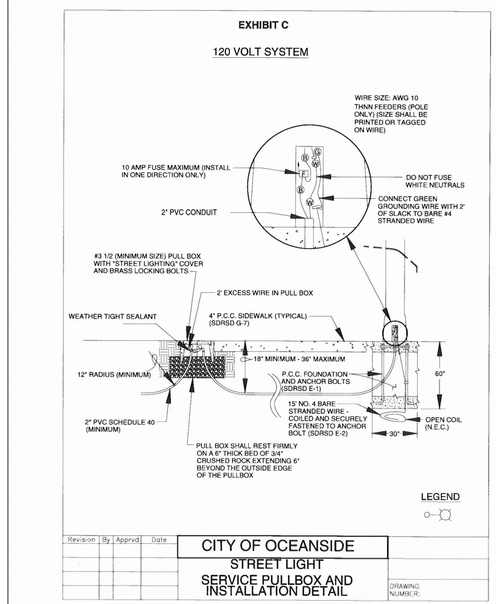
Prepared under the direction of — Sign: Date: 10/18/24 — Reviewed By: — PLAN NUMBER G24-00022

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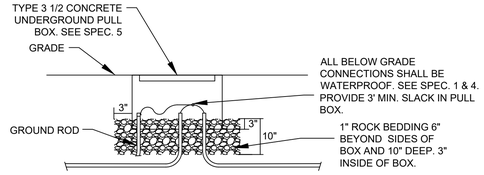
A STREET LIGHT STANDARD. SEE BRIDGE DESIGN FOR ACTUAL INSTALLATION DETAILS AND STRUCTURAL CALCULATIONS.



NO SCALE

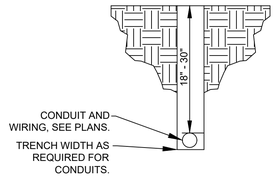
B SERVICE PULLBOX AND INSTALLATION DETAIL. SEE BRIDGE DESIGN FOR CHEEK WALL RECESSED JUNCTION BOX LOCATIONS.

NOTE: PROVIDE FUSES AS REQUIRED IN STREET LIGHT SERVICE PULL BOX. SEE SPEC. 1.
A 5/8"X10" COPPER-CLAD GROUND ROD SHALL BE REQUIRED IN SERVICE PULL BOX WITH FUSES ONLY.



NO SCALE

C PULL BOX INSTALLATION DETAIL



BACKFILL MATERIAL:
THE MATERIAL USED FOR BACKFILLING THE TRENCH ABOVE THE SHADING MATERIAL AND EXTENDING UPWARD TO THE SUBGRADE SHALL BE FREE OF ROCKS OR CLODS LARGER THAT 6" IN ANY DIMENSION. THE COARSE MATERIAL SHALL BE WELL DISTRIBUTED THROUGHOUT THE FINER MATERIAL. THE AMOUNT OF ROCKS OR CLODS SHALL BE LIMITED, IN THE OPINION OF THE INSPECTOR. THE BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND CITY STANDARDS AND BE FREE OF DEBRIS AND ORGANIC MATTER. SLURRY BACKFILL MAY BE REQUIRED BY CITY INSPECTOR. CHECK WITH CITY PRIOR TO START OF CONSTRUCTION.

SHADING MATERIAL AND INSTALLATION:
NATURAL SAND, MANUFACTURED SAND, DECOMPOSED GRANITE, ROCK FREE SANDY LOAM, EXISTING NATIVE MATERIAL OR COMBINATION THEREOF. AGGREGATE MATERIAL SHALL BE CAPABLE OF PASSING THROUGH A ½" SIEVE. GRAVEL SHALL NOT AMOUNT TO MORE THAN 50% OF MIXTURE. SCREENING OR OTHER SUITABLE MEANS MAY BE REQUIRED AT THE INSPECTORS DISCRETION.
THE EARTH TRENCH BOTTOM SHALL BE STABLE WITH A UNIFORM GRADE CONTAINING NO HARD CLODS, ROCKS, AND ETCETERA, THAT MAY DAMAGE THE CONDUIT. IF IN THE OPINION OF THE INSPECTOR, THE CONDUIT MAY BE DAMAGED DURING COMPACTION, A 3" SHADE OF MATERIAL ABOVE AND BELOW THE CONDUIT MAY BE REQUIRED.

COMPACTION:
SHADING AND BACKFILL SHOULD BE COMPACTED IN ACCORDANCE WITH GOVERNMENTAL AGENCIES AND SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION. VERIFY REQUIREMENTS WITH INSPECTOR.

NOTE TO CONTRACTOR:
FOLLOW SDG&E WORK ORDERS FOR UTILITY TRENCH REQUIREMENTS.

NO SCALE

D TRENCH INSTALLATION DETAIL

CONSTRUCTION NOTES

A. ALL 90 DEGREE ELBOWS TO BE FACTORY MADE BENDS.

B. STREET LIGHTING SYSTEM CONDUITS MAY BE JOINT TRENCH WITH PUBLIC UTILITY SYSTEM.

C. CONTRACTOR TO MAINTAIN PROPER SEPARATION AS REQUIRED BY THE UTILITY COMPANIES.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR ANY AND ALL UTILITY AND CITY INSPECTIONS.

E. ALL WORK TO CONFORM WITH THE 2019 CEC OR LATEST APPLICABLE CODE.

F. ALL EQUIPMENT TO BE LISTED BY A RECOGNIZED TESTING LAB (i.e., U.L., ETC.).

G. ALL CONDUIT SHALL BE BURIED AT A MINIMUM OF 24" COVER. REFER TO SAN DIEGO REGIONAL STANDARD DRAWING SDM-103.

H. ALL GROUND CONDUCTORS SHALL BE SPLICED TOGETHER WITH APPROVED CONNECTOR AT PULL BOXES AND CONNECTED TO GROUND LUG INSIDE POLE.

I. SEE STREET IMPROVEMENT PLAN FOR ROADWAY AND WATER IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.

J. CONTRACTOR SHALL CONTACT "DIG ALERT" FOR MARK-OUT PRIOR TO TRENCHING AS REQUIRED.

K. THESE PLANS ARE SCHEMATIC AND ARE FOR THE PURPOSE OF SHOWING HOW TO CONNECT THE ELECTRICAL SYSTEM. WHILE THE DRAWING IS AT ACTUAL SCALE, THE SYMBOLS REFERENCED ARE NOT, AND MAY APPEAR TO SHOW THE EQUIPMENT IN PLACES NOT INTENDED. THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY COMPANY SERVICE POINTS, POLES, PULL BOXES, SERVICE EQUIPMENT LOCATIONS AND OTHER ELECTRICAL APPURTENANCES AND VERIFY ALL LIGHT LOCATIONS WITH THE CITY PRIOR TO START OF CONSTRUCTION AND DURING STAKING. REFER TO LIGHT STANDARD DETAIL FOR STANDARDS.

L. NATIVE SOIL SHALL BE ACCEPTABLE FOR TRENCH BACK FILL PROVIDED THAT THE FILL MATERIAL USED SHALL PASS THROUGH A 1" SIEVE. THE CITY INSPECTORS RESERVE THE RIGHT TO REQUEST ALL TRENCHES BE SLURRY BACKFILLED. SEE TRENCH DETAIL G THIS SHEET.

M. ALL MATERIAL BROUGHT ONTO THE JOB SITE (ALL WIRE, CONDUIT, FITTINGS, PULL BOXES, ETCETERA) SHALL BE PURCHASED AS NEW.

N. INSTALL STREET LIGHT SERVICE PULLBOX WITH FUSES WITHIN 5' OF SDG&E SERVICE POINT. IF STREET LIGHT IS WITHIN 10' OF SDG&E SERVICE POINT, NO STREET LIGHT SERVICE PULLBOX SHALL BE REQUIRED. PULLBOX WITH STREET LIGHT SHALL SUFFICE.

SPECIFICATION SECTION

1. FUSE HOLDERS TO BE BUSSMAN TYPE 'HEB' OR APPROVED EQUAL, WITH WATERPROOF BOOTS AND SIZED FOR #8 CONDUCTORS, AT 120V.

2. ALL ELECTRICAL WIRING TO BE SOLID COPPER CONDUCTOR WITH MINIMUM #8 AWG, THWN/THHN INSULATION RATED AT 600 VOLTS.

3. ALL BELOW GRADE CONDUIT TO BE MINIMUM 2" PVC SCHEDULE 40 BEHIND CURB, AND ALL STREET CROSSINGS SHALL BE 2" MIN. SCH. 80.

4. ALL SPLICES BELOW GRADE SHALL ALL BE WATERPROOF AND EPOXY ENCAPSULATED. USE TYPE '3M' BAGS OR EQUAL.

5. ALL PULL BOXES TO BE EITHER BROOKES TYPE 3 1/2 (10-1/2" X 17-1/2" X 12"D) FOR STREET LIGHTS OR EQUAL, WITH BOLT DOWN COVER MARKED "STREET LIGHTS". LEAVE 3' SLACK OF CONDUCTORS IN PULLBOX. SIZE PER SECTION 370-28, CEC. SEE DETAIL C SHEET 74.

6. ALL BELOW GRADE CONDUIT SHALL BE SEALED UPON COMPLETION OF INSTALLATION.

7. THE LIGHTING LUMINAIRE SHALL BE A COMPLETE ASSEMBLY OF LUMINAIRE AND POLE.
   B. THE POLE ASSEMBLY SHALL BE CONCRETE AND SUPPLIED IN ONE PIECE UNITIZED CONSTRUCTION. THE COMPLETE POLE ASSEMBLY SHALL BE COMPOSED OF THE FOLLOWING.
      1. POLE: SHALL BE CONCRETE, AMERON INTERNATIONAL, 2B26 FOR ANCHOR BOLT MOUNT PER CITY OF OCEANSIDE STREET LIGHT DESIGN MANUAL.
   C. LUMINAIRE SHALL BE A COMPLETE ASSEMBLY MOUNTED TO THE POLE WITH A MAST ARM AND COMPOSED OF THE FOLLOWING:
      LUMINAIRE: SEE LEGEND ON FRONT SHEET.
   D. CONTROL PRODUCTS:
      1. ADAPTIVE CONTROL NODE: GENERAL ELECTRIC: ELWN0A8UBAA-OSIDE
   E. SUBMIT SHOP DRAWING OF STREET LIGHTING LUMINAIRE.

ADDITIONAL NOTES

1. CONTRACTOR SHALL VERIFY ALL CONTRUCTION NOTES AND SPECIFICATIONS WITH THE "CITY OF OCENSIDE STREET LIGHT DESIGN POLICY MANUAL".

Underground Service Alert	NO.	APPROVED REVISIONS	BY	DATE
CALL 811 TWO WORKING DAYS BEFORE YOU DIG				

ENGINEER OF WORK SEAL
REGISTERED PROFESSIONAL ENGINEER MARIO A. PEREZ E22246 STATE OF CALIFORNIA

ENGINEER OF WORK COMPANY LOGO
VCL Visual Concepts Lighting
858-270-4403
www.visualconceptsinc.com
9850 Mercury St. Ste 210
San Diego, CA 92171

CITY NAVD88 BENCHMARK
Description: OCEANSIDE STATION 1019, A SET 2.5" BRASS DISC IN CURB INLET STAMPED "LS 7854"
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Record From: CITY OF OCEANSIDE ROS NO. 21787
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SHEET 50 | CITY OF OCEANSIDE ENGINEERING DIVISION | 50 SHEETS

STREET LIGHT PLAN FOR
OCEAN KAMP-OCEANSIDE

ACCEPTED BY
CITY ENGINEER: BRIAN K. THOMAS P.E. 60907 Date:

Prepared under the direction of
Signed: Date: 10/18/24

Reviewed By:

PLAN NUMBER G24-00022

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