



SPECIAL PARKS & RECREATION ADVISORY COMMITTEE MEETING

Tuesday, September 22, 2020 at 5:30 p.m.

Pursuant to Governor Newsom's Executive Order N-29-20, and State and County Shelter at Home orders, Committee Members, staff and public may participate in this meeting via teleconference and/or electronically. The LOCSD Boardroom will NOT be open for accessing the meeting.

For quick access, go to <https://us04web.zoom.us/j/139650283>
(This link will help connect both your browser and telephone to the call)
OR dial 1 (929) 205-6099 or 1 (301) 715-8592 and enter 139 650 283

All persons desiring to speak during any Public Comment can submit a comment by:

- Through email at ldurban@losososcsd.org by 12:00pm on 9/22/2020
- Through the district website www.losososcsd.org/contact-us by 12:00pm on 9/22/2020
- Through teleconference by phone at (929) 205-6099 or (301) 715-8592 and enter **139 650 283**
- Through mail by 5:00 PM on the day prior to the Committee meeting sent to LOCSD
- Through teleconference meeting at <https://us04web.zoom.us/j/139650283>

AGENDA

- 1. Opening at 5:30 p.m. – Call to Order and Roll Call**
- 2. Approve Parks and Recreation Committee Meeting Minutes of August 18, 2020**
(Recommend approval)
Presented by: Administrative Services Manager Durban
- 3. Ferrell St. Pathway - Update & Discussion**
Presented by: General Manager Munds
- 4. Public Comments on Items NOT on this Agenda:** At this time, the public may comment on items not on this agenda. Each commenter is limited to 3 minutes and shall address the Chairperson.
- 5. Schedule Next Parks and Recreation Committee Meeting** – The next meeting will be held on Tuesday, October 20, 2020 at 5:30 p.m. unless otherwise noted.
- 6. Closing Comments by Parks and Recreation Committee Members**
- 7. Adjournment**

Los Osos Community Services District
DRAFT - Minutes of the Parks & Recreation Advisory Committee Meeting
August 18, 2020 at 5:30 p.m. at the District Office

AGENDA ITEM	DISCUSSION	FOLLOW-UP
<p>1. Call to Order, Flag Salute, and Roll Call</p>	<p>Chairperson Fourcroy called the meeting to order at 5:30 p.m.</p> <p><u>Roll Call:</u> Alissa Feldman, Committee Member – Arrived at 5:35 p.m. William Fitzgerald, Committee Member - Present Christina Grimm, Committee Member – Present Andrea Lueker, Committee Member – Arrived at 5:33 p.m. Shaunna Sullivan, Committee Member – Arrived at 5:35, left at 5:41 p.m. Christine Womack, Vice Chairperson – Present Matthew Fourcroy, Chairperson – Present</p> <p><u>Staff:</u> Ron Munds, General Manager Laura Durban, Administrative Services Manager</p>	
<p>2. Approve Parks and Recreation Committee Meeting Minutes of April 21, 2020</p>	<p>Chairperson Fourcroy presented the draft minutes to the Committee for approval.</p> <p>Public Comment – None</p> <p>Committee Member Fitzgerald moved to approve the meeting minutes of April 21, 2020. The motion was seconded by Committee Member Feldman and carried with the following vote:</p> <p>Ayes: Committee Member Fitzgerald, Feldman, Grimm Nays: None Abstain: Committee Member Lueker, Sullivan Absent: None</p>	<p>Action: File Approved Minutes.</p>
<p>3. Ferrell Avenue Pathway Discussion</p>	<p>General Manager Munds presented the PowerPoint presentation that is made available on the website.</p> <p>The Committee discussed the Ferrell Avenue Pathway discussing the difference between the Decomposed Granite versus Asphalt options and commenting on aesthetics, durability and repair.</p> <p>The Committee discussed getting more information to see which path and which barrier would be the most durable and long-lasting commenting that the Split Rail was the favored option followed by the Wood Posts and lastly the Metal Posts with the Metal Cable.</p> <p>Public Comment – Julie Tacker commented on concerns about the cost of the project and that the Committee should go with the least expensive cost as the cost to Wallace Group was more than expected; voiced support for the Metal Fence option like used at the Elfin Forrest and commented that the Split Rail Fence may be able to only have 2 rails and be a lower height.</p> <p>Linde Owen voiced support for Decomposed Granite for the Pathway and Wood Post for the fencing; commented that the Wood Post could be treated and the rope could be added later if necessary; on the path between the Water Yard fence and planting something to cover the fence.</p> <p>The Committee directed staff to get more information on the difference between Decomposed Granite and Asphalt over time including estimate of cost of repairs to decide which is the better price long term; on if the Split Rail Fence option, for the barrier, could be treated to protect it from termites, other insects and rot.</p>	
<p>4. Public Comment on Items NOT on the Agenda</p>	<p>Linde Owen inquired if there is new details about the Dog Park; commented that the County has accepted some extensions and that they may grant an extension on the pathway project if the District gets into a pinch; on more tree planting in the District and to beautify the Ferrell Avenue Pathway.</p>	

AGENDA ITEM	DISCUSSION	FOLLOW-UP
4. Public Comment on Items NOT on the Agenda (continued)	Chairperson Fourcroy responded that currently the District is in a standstill on the Dog Park and that the District is waiting to reengage and get more public involvement. General Manager Munds responded that the Habitat Conservation Plan is at the County and that is a key piece that needs to be approved before the District can move forward.	
5. Schedule Next Parks and Recreation Committee Meeting	The next Parks and Recreation Advisory Committee meeting is scheduled to be held on October 21, 2020 at 5:30 p.m. reserving the right to have a meeting on September 15, 2020 if there are updates that need to be discussed with the committee, or unless otherwise noticed.	
6. Closing Comments by Parks and Recreation Committee Members	None	
7. Adjournment	The meeting adjourned at 6:11 p.m.	



September 22, 2020

TO: PRAC Members

FROM: Ron Munds, General Manager

**SUBJECT: Agenda Item 3 – 09/22/2020 PRAC Meeting
Ferrell Avenue Pathway Project**

DESCRIPTION

President
Charles L. Cesena

This report provides a summary of the progress made to date on the Ferrell Avenue Pathway Project including design and estimated costs.

Vice President
Christine M. Womack

STAFF RECOMMENDATION

Directors
Matthew D. Fourcroy
Vicki L. Milledge
Marshall E. Ochylski

Motion: I move that the Committee recommends that the Board of Directors approve the Ferrell Avenue Pathway Project as designed and move forward with soliciting bids for construction.

Discussion

General Manager
Ron Munds

The Ferrell Pathway Project has been under consideration by the Parks and Recreation Committee (PRAC) for about a year. As part of the District's budgeting process for Fiscal Year 2020-21, the Board of Directors allocated additional funds from the Zone A property tax revenues to the Parks and Recreation budget. With the additional money and Board approval, staff engaged the Wallace Group to develop a pathway design, cost estimates and construction documents for the project.

District Accountant
Robert Stilts, CPA

Unit Chief
Scott M. Jalbert

Pathway Material

At the August PRAC meeting, the Committee discussed the different types of materials that could be used to construct the pathway. The options for the type of material to be used was narrowed down to decomposed granite (DG) and asphalt. The Committee determined that the criteria for the final selection of the material should be based on:

Battalion Chief
Paul Provence

1. Durability over time
2. Long term maintenance requirements including cost for any future repairs

Mailing Address:
P.O. Box 6064
Los Osos, CA 93412

Given this direction, Wallace Group and staff researched the issues of durability and maintenance of both materials. Based on the information provided by a local general engineering company, the City of Grover Beach (summary attached) and internet research on installation costs and maintenance requirements (summary attached), staff would recommend using asphalt as the preferred pathway material.

Offices:
2122 9th Street, Suite 110
Los Osos, CA 93402

Phone: 805/528-9370
FAX: 805/528-9377

The periodic maintenance requirements are similar with both materials but DG is prone to weed growth, erosion and issues with gopher damage which drives up the annual cost of maintenance. Both surfaces do require similar recurring sealing to maintain the integrity of the material. The cost difference is relatively minor with upfront cost of asphalt being \$2,000 to \$3,000 more.

www.lososocsd.org

Sensitive Habitat Barrier

Also at the August PRAC meeting, the Committee discussed the kind of barrier to be used to protect the sensitive habitat area. Examples of fencing were provided by Wallace Group and the Committee consensus was to use a wood split rail fence, two rails high. Research indicates that while a wood split rail fence can last 15 or more years, they do require at least twice a year inspection and immediate repair of any issues to ensure longevity. The most recommended type of woods are either treated lumber or Cedar.

Financial Impact

Base on the design elements chosen, the following table summarizes the cost of the project:

Recommended Project Estimated Budget	
Item	Estimated Cost
Demolition, grading, aggregate base	\$10,000
Path: Asphalt	\$15,000
Fence: Split rail fence	\$2,900
Signage, bollards, under-pavement pipe sleeve	\$4,000
Construction management	\$5,000
Permits	\$1,000
TOTAL	\$37,900

FERRELL AVE TRAIL IMPROVEMENT PROJECT LOS OSOS COMMUNITY SERVICE DISTRICT

LOS OSOS, SAN LUIS OBISPO COUNTY, CA



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GROUND SURVEY

REFER TO SHEET S-1 FOR SURVEY INFORMATION.

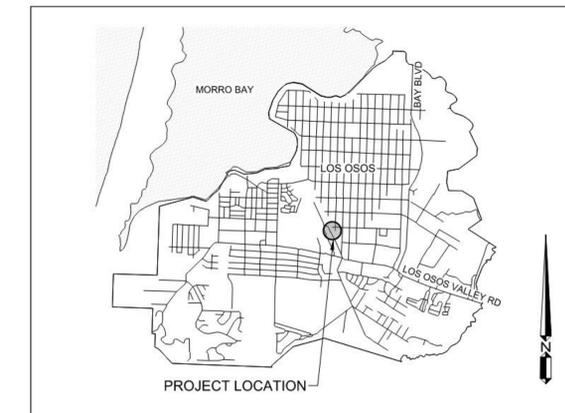
UNDERGROUND UTILITIES

UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, AND ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.



PROJECT SITE MAP
SCALE: 1" = 30'

Sheet Number	Sheet Title
T-1	TITLE SHEET
T-2	NOTES
S-1	SURVEY PLAN
L-1	LAYOUT & GRADING PLAN
L-2	DETAILS



CITY MAP
NTS

SIGNATURE

DATE SIGNED

These plans and specifications, and the ideas and design incorporated herein, are instruments of service prepared for the construction of work shown hereon and shall not be used in whole or in part for any other project without written authority of Wallace Group, a California Corporation.

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LOS OSOS COMMUNITY SERVICES DISTRICT
TITLE SHEET
FERRELL AVENUE FOOTPATH

JOB #: 384-0122
DESIGNERS: EAS
DRAWN BY: EAS
DATE: 8/25/2020

DRAWING NO.

T-1

1 OF 5 SHEETS

GENERAL NOTES

- THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE LOS OSOS COMMUNITY SERVICES DISTRICT (LOCS) AND SAN LUIS OBISPO COUNTY (SLOCO) STANDARD DRAWINGS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF LOCS.
- THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", "NOT A PART", OR HAVE SOME OTHER EXCLUDING NOTATION.
- PIPE LENGTH AND SLOPE SHOWN ON THESE PLANS ARE TAKEN FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
- THE CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL ORGANIZE A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, ENGINEER OF RECORD, SOILS ENGINEER, PERTINENT UTILITY COMPANIES, SURVEYOR, AND LOCS INSPECTOR.
- EXISTING TOPOGRAPHIC INFORMATION DELINEATED ON THESE PLANS IS BASED ON A SURVEY PERFORMED ON: 07/30/2020, SEE SHEET S-1.
- ALL CONSTRUCTION SHALL BE IN COMPLETE COMPLIANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS AS SET FORTH IN THE PROJECT SOILS REPORT.
- SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH SAN LUIS OBISPO COUNTY STANDARDS AND SPECIFICATIONS. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO THE PLACEMENT OF MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.
- COMPACTION TESTS SHALL BE MADE ON SUB-GRADE MATERIAL AND MATERIAL AS SPECIFIED BY THE SOILS ENGINEER. SAID TESTS SHALL BE MADE PRIOR TO THE PLACEMENT OF THE NEXT MATERIAL.
- SUB-GRADE MATERIAL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95% IN THE ZONE BETWEEN FINISHED SUB-GRADE ELEVATION AND 1 FOOT BELOW. ALL MATERIAL IN FILL SECTIONS BELOW THE ZONE MENTIONED ABOVE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
- THE ENGINEER OF RECORD SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF RECORD FOR PREPARATION OF RECORD DRAWINGS.
- ALL PERTINENT UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION OPERATIONS AND DELIVERIES SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 4:00PM MONDAY THROUGH FRIDAY.

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR ANY EXISTING HAZARD TO CONSTRUCTION NOT SHOWN ON THE PLANS SUCH AS FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, OR LARGE DEPOSITS OF ORGANIC MATERIAL, ETC. IF ANY SUCH HAZARDS ARE FOUND, THE OWNER AND ENGINEER SHALL BE NOTIFIED. ALL EXISTING SURFACE STRUCTURES, FENCES, TANKS, PIPES, ETC., AND ANY BURIED MATERIAL SPECIFIED IN THE PLANS FOR REMOVAL FROM THE SITE SHALL BE DISPOSED OF AT A LICENSED DISPOSAL FACILITY.
- ALL DISTURBED AREAS SHALL BE RE-VEGETATED. TEMPORARY EROSION SEDIMENTATION, AND SILTATION MITIGATION DEVICES SHALL BE PLACED BETWEEN OCTOBER 15 AND APRIL 15. DRAINAGE SHALL BE DISPERSED FROM IMPERMEABLE AREAS TO MITIGATE EROSION.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS WRITTEN NOTICE TO THE PROJECT REPRESENTATIVE AND SURVEYOR WHEN REQUESTING SURVEY STAKES.
- CONTRACTOR RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF EXCAVATED MATERIAL UNSUITABLE FOR BACKFILL AND ALL OTHER WASTE MATERIAL RESULTING FROM DEMOLITION AND CONSTRUCTION.
- CONTRACTOR MAY SPREAD EXCESS NATIVE SAND FROM PATH EXCAVATION DOWNHILL FROM PATH WITHIN LOCS PROPERTY.
- EXISTING UTILITY SERVICE LATERALS INCLUDING BUT NOT LIMITED TO SANITARY SEWER, WATER, GAS, AND POWER ARE NOT SHOWN ON THIS SET OF PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SERVICE LATERALS CROSSING OR ADJACENT TO PROPOSED PATH EXCAVATION.

LOS OSOS CSD CONSTRUCTION NOTES

- APPROVED PLANS** - NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY THE LOS OSOS COMMUNITY SERVICES DISTRICT (LOCS). THE LOCS INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO STARTING OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS AND PRIOR TO NOTIFICATION TO THE LOCS INSPECTOR WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S AND/OR OWNER'S RISK.

THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED PLANS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- INSPECTION** - THE LOCS INSPECTOR, ACTING ON BEHALF OF THE LOCS ENGINEER, MAY REQUIRE REVISIONS TO THE APPROVED PLANS AND SPECIFICATIONS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD.
- ENCROACHMENT PERMITS** - NO WORK WITHIN A COUNTY RIGHT-OF-WAY SHALL BE PERFORMED WITHOUT AN ENCROACHMENT PERMIT.
- UTILITY NOTIFICATION** - PRIOR TO BEGINNING ANY EARTHWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- EXISTING UTILITIES** - THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS, AND ARE APPROXIMATE ONLY. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND OTHER FACILITIES AND FOR PROTECTING THE SAME DURING THE COURSE OF CONSTRUCTING THE PROJECT. ANY DEVIATIONS FROM THE PLAN LOCATION OF ANY EXISTING FACILITIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LOCS INSPECTOR.
- SAFETY** - NEITHER THE LOS OSOS COMMUNITY SERVICES DISTRICT OR THE ENGINEER OF RECORD WILL BE RESPONSIBLE FOR COMPLIANCE WITH SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR (INCLUDING THE OWNER/BUILDER) SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
- INDEMNIFICATION** - THE APPLICANT AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, APPLICANT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE CONDITION OF THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING THE SAFETY OF PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THE APPLICANT SHALL DEFEND, INDEMNIFY, AND HOLD THE DISTRICT AND DISTRICT'S AGENTS, EMPLOYEES AND CONSULTANTS HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS, DAMAGES, COSTS, EXPENSES (INCLUDING ATTORNEY'S FEES), JUDGMENTS OR LIABILITIES ARISING OUT OF THE PERFORMANCE OR ATTEMPTED PERFORMANCE OF THE WORK ON THIS PROJECT; EXCEPT THOSE CLAIMS, DEMANDS, DAMAGES, COSTS, EXPENSES (INCLUDING ATTORNEY'S FEES), JUDGMENTS OR LIABILITIES RESULTING FROM THE NEGLIGENCE OR WILLFUL MISCONDUCT OF THE DISTRICT.
- PROTECTION OF PROPERTY** - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO HIS WORK AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE OR REPAIR TO THEIR ORIGINAL CONDITION ALL IMPROVEMENTS WITHIN OR ADJACENT TO THE WORK AREA WHICH ARE NOT DESIGNATED FOR REMOVAL, AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF HIS OPERATIONS.
- SITE CONDITIONS** - THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS, CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE LOCS INSPECTOR PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
- CONTRACTORS RECORD OF CHANGES** - THE CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL CHANGES WHICH DEVIATE FROM THE CONSTRUCTION AS SHOWN ON THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
- RECORD DRAWINGS** - A REGISTERED CIVIL ENGINEER MUST CERTIFY THAT THE IMPROVEMENTS, WHEN COMPLETED, ARE IN CONFORMANCE WITH THE APPROVED PLANS SUBJECT TO APPROVED CHANGES. THIS CERTIFICATION SHALL BE MADE PRIOR TO THE REQUEST FOR FINAL INSPECTION. RECORD DRAWINGS ("AS-BUILTS") ARE TO BE PREPARED BY THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE LOCS.

MORRO SHOULDERBAND SNAIL (MSS) NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL U.S. FISH AND WILDLIFE SERVICE'S (SERVICE) REQUIRED AVOIDANCE AND PROTECTION MEASURES LISTED BELOW.
- ALL PROJECT RELATED GROUND DISTURBING ACTIVITIES WILL OCCUR DURING THE DRY SEASON (JUNE 1ST - OCTOBER 15TH) WHEN MSS ARE AESTIVATING AND UNLIKELY TO MIGRATE INTO WORK AREAS.
- A BIOLOGIST APPROVED BY THE SERVICE WILL CONDUCT A PRE-CONSTRUCTION SURVEY OF THE WORK AREA NO MORE THAN 48 HOURS PRIOR TO THE INITIATION OF SITE WORK. THE BIOLOGIST WILL NOTIFY THE SERVICE OF THE RESULTS OF THE SURVEY IMMEDIATELY FOLLOWING THE SURVEY EFFORTS. NO LIVE MSS WILL BE RELOCATED DURING THESE EFFORTS.
- PRIOR TO ANY SOIL DISTURBING AND/OR VEGETATION REMOVAL, SILT FENCING OR ORANGE PROTECTIVE FENCING WILL BE INSTALLED AROUND PERIMETER OF THE PROPOSED PROJECT AREA TO PREVENT UNAUTHORIZED GROUND DISTURBANCE OUTSIDE OF THE WORK AREA.
- A SERVICE-APPROVED BIOLOGIST WILL CONDUCT A PRE-CONSTRUCTION ENVIRONMENTAL AWARENESS TRAINING SESSION FOR ALL CONSTRUCTION PERSONNEL INVOLVED IN SITE DISTURBANCE. THE TRAINING IS INTENDED TO INFORM THE PERMITTEES, CONSTRUCTION CREWS, FIELD SUPERVISORS, AND EQUIPMENT OPERATORS ABOUT THE STATUS AND PRESENCE OF THE SPECIES, GRADING, AND CONSTRUCTION-ACTIVITY RESTRICTIONS, AND ALL PROPOSED AVOIDANCE, PROTECTION AND MINIMIZATION MEASURES.
- TO ENSURE TAKE OF MSS WOULD NOT RESULT FROM PROJECT ACTIVITIES, IN ADDITION TO THE PROPOSED AVOIDANCE AND PROTECTION MEASURES ABOVE, THE SERVICE-APPROVED BIOLOGIST WILL HAVE THE AUTHORITY TO STOP WORK IF MSS ARE OBSERVED WITHIN THE PROJECT AREA. IF MSS ARE OBSERVED, THE SERVICE WILL BE NOTIFIED.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SPOT ELEVATIONS
		SEWER MANHOLE
		SEWER CLEANOUT
		SERVICE LATERAL (W=WATER, G=GAS, U=UTILITIES)
		SERVICE METER (W=WATER)
		DOUBLE SERVICE METER (W=WATER)
		SEWER LATERAL
		FIRE HYDRANT
		STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
		WATER VALVE BOX
		CAP
		SURVEY MONUMENT
		BENCH MARK
		SLOPE PERCENTAGE
		REMOVE UTILITY
		EDGE OF PAVEMENT
		REDUCER / INCREASER
		WATER LINE
		SEWER FORCE MAIN
		GRAVITY SEWER LINE
		STORM DRAIN
		UNDERGROUND GAS LINE
		UNDERGROUND UTILITY LINE LOCATION
		UNDERGROUND ELECTRICAL LINE
		UNDERGROUND CABLE TELEVISION LINE
		UNDERGROUND TELEPHONE LINE
		RIGHT OF WAY
		EASEMENT
		CENTERLINE
		CHAIN LINK FENCE
		FLOWLINE

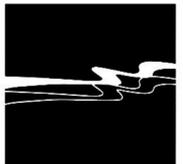
ABBREVIATIONS

AC	ASPHALTIC CONCRETE	LT	LEFT
ACP	ASBESTOS CEMENT PIPE	M	METER
AVG	AVERAGE	MAX	MAXIMUM
BLDG	BUILDING	MIN	MINIMUM
BM	BENCH MARK	MISC	MISCELLANEOUS
C	CURB	MH	MANHOLE
CATV	CABLE TELEVISION	N/A	NOT APPLICABLE
CI	CAST IRON	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CL	CENTERLINE	NIC	NOT IN CONTRACT
CL	CLASS	NTS	NOT TO SCALE
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CO	CLEANOUT	PCC	PORTLAND CEMENT CONCRETE
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONST	CONSTRUCTION	R	RADIUS
CONT	CONTINUOUS	RC	REINFORCED CONCRETE
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
DET	DETAIL	REQD	REQUIRED
DIA	DIAMETER	RT	RIGHT
DIM	DIMENSION	R/W	RIGHT OF WAY
D/W	DRIVEWAY	SS	SANITARY SEWER
E	EXISTING	SCH	SCHEDULE
EA	EACH	SD	STORM DRAIN
ELE	ELEVATION	SHT	SHEET
EP	EDGE OF PAVEMENT	SPEC	SPECIFICATIONS
EX	EXISTING	SSFM	SANITARY SEWER FORCE MAIN
EG	EXISTING GROUND	STA	STATION
FDC	FIRE DEPARTMENT CONNECTION	STD	STANDARD
FG	FINISH GRADE	STL	STEEL
FH	FIRE HYDRANT	SW	SIDEWALK
FL	FLOW LINE	T	TELEPHONE
FL	FIRE LINE	TB	THRUST BLOCK
FLG	FLANGE	TB	TOP OF BANK
FS	FINISH SURFACE	TC	TOP OF CURB
FT	FEET	TG	TOP OF GRATE
G	GAS	TP	TOP OF PAVEMENT
GA	GAGE	TYP	TYPICAL
GALV	GALVANIZED	TW	TOP WALL
HDPE	HIGH DENSITY POLYETHYLENE	UTL	COMMON TRENCH UTILITIES
HGL	HYDRAULIC GRADE LINE	VAR	VARIES
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCHES	W	WATER
INV	INVERT	WL	WATER LINE
JP	JOINT POLE	WM	WATER METER
JT	JOINT UTILITY TRENCH	WV	WATER VALVE
L	LENGTH		
LAT	LATERAL		
LF	LINEAR FEET		
LP	LIGHT POLE		

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS. NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.



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SIGNATURE
DATE SIGNED

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LOS OSOS COMMUNITY SERVICES DISTRICT
NOTES
FERRELL AVENUE FOOTPATH

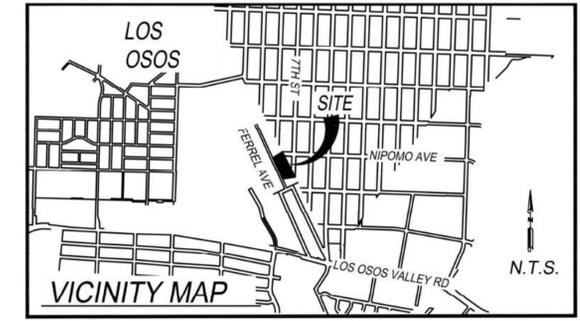
LOS OSOS COMMUNITY SERVICES DISTRICT
NOTES
FERRELL AVENUE FOOTPATH

JOB #: 384-0122
DESIGNERS: EAS
DRAWN BY: EAS
DATE: 8/25/2020

DRAWING NO.
T-2
2 OF 5 SHEETS

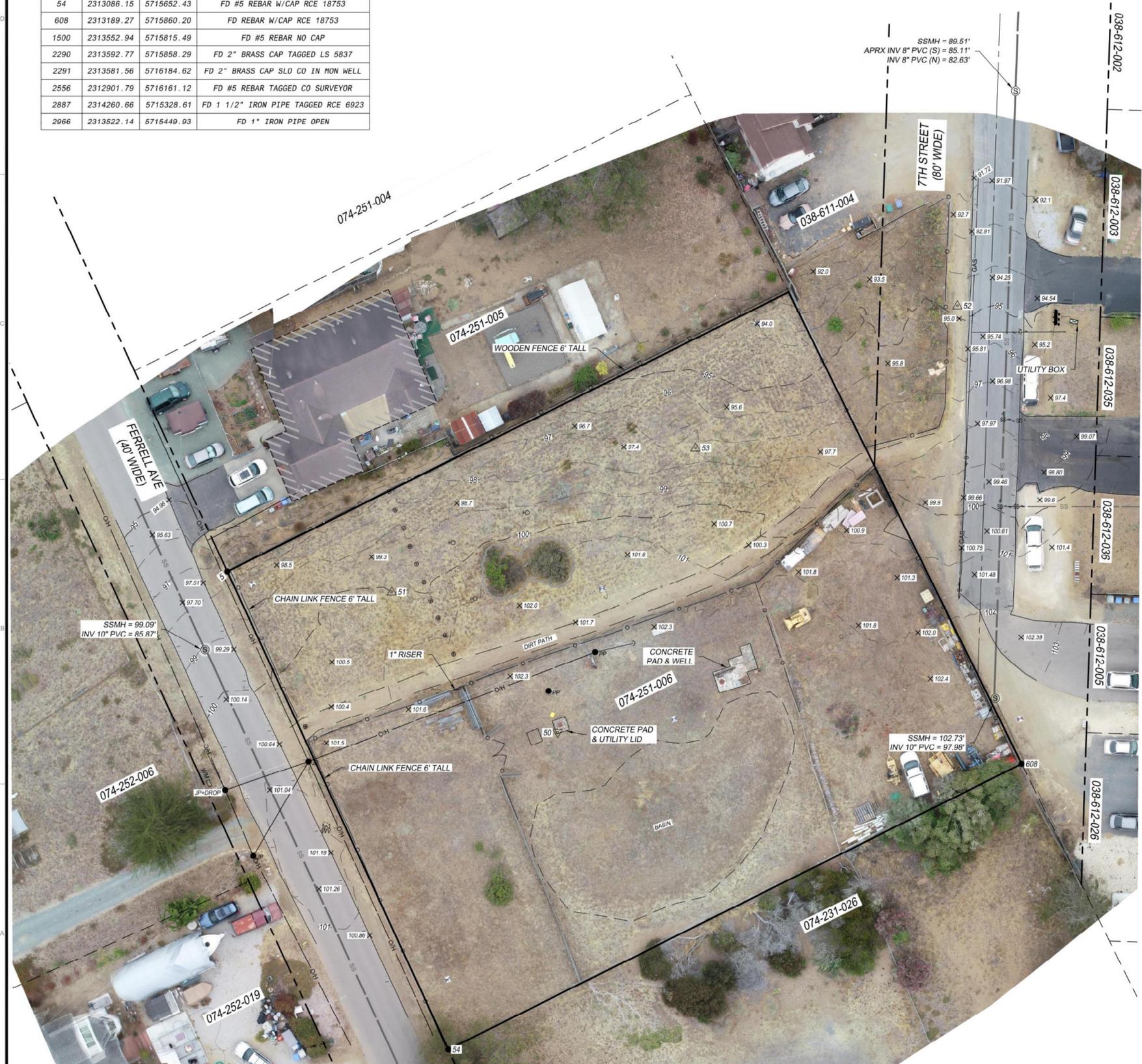
SHEET LAYOUT AND SURVEY CONTROL

FOUND MONUMENT COORDINATE TABLE			
PT. NO.	NORTHING	EASTING	DESC.
5	2313258.66	5715572.35	FD REBAR NO CAP
54	2313086.15	5715652.43	FD #5 REBAR W/CAP RCE 18753
608	2313189.27	5715860.20	FD REBAR W/CAP RCE 18753
1500	2313552.94	5715815.49	FD #5 REBAR NO CAP
2290	2313592.77	5715858.29	FD 2" BRASS CAP TAGGED LS 5837
2291	2313581.56	5716184.62	FD 2" BRASS CAP SLO CO IN MON WELL
2556	2312901.79	5716161.12	FD #5 REBAR TAGGED CO SURVEYOR
2887	2314260.66	5715328.61	FD 1 1/2" IRON PIPE TAGGED RCE 6923
2966	2313522.14	5715449.93	FD 1" IRON PIPE OPEN



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SURVEY CONTROL POINTS				
PT. NO.	NORTHING	EASTING	ELEV.	DESC.
50	2313200.57	5715692.06	102.78	SET X ON PAD
51	2313251.34	5715631.96	99.99	SET #5 REBAR WG CAP
52	2313354.63	5715836.90	94.73	SET 80D NAIL
53	2313303.23	5715742.03	97.28	SET #5 REBAR WG CAP



LEGEND	
	BOUNDARY LINE
	RIGHT OF WAY LINE
	APPROXIMATE PROPERTY LINE
	CENTER LINE
	INDEX CONTOUR
	INTERMEDIATE CONTOUR
	EDGE OF PAVEMENT
	WOODEN FENCE
	CHAIN LINK FENCE
	GAS LINE
	SANITARY SEWER LINE
	OVERHEAD UTILITY LINE
	WATER LINE
	TRAFFIC STRIPING (SOLID)
	TRAFFIC STRIPING (DASHED)
	SANITARY SEWER MANHOLE
	ELECTRICAL BOX
	WATER METER
	GAS VALVE
	IRRIGATION CONTROL VALVE
	WATER VALVE
	HOSE BIB
	GUY WIRE
	JOINT UTILITY POLE
	POWER POLE
	BOLLARD/SMALL POLE
	MAIL BOX
	SURVEY CONTROL POINT AND NUMBER
	FOUND MONUMENT AS DESCRIBED
	BRUSH LINE/DRIP LINE
	GAS PAINT MARK
	SANITARY SEWER PAINT MARK
	TREE WITH DIAMETER NOTED
	20" PINE
	BUILDING
	CONCRETE

- SURVEY NOTES**
- THIS SURVEY TIED TO TWO (2) OF THE CONTROL MONUMENTS SHOWN ON THE RECORD OF SURVEY FILED IN BOOK 92 OF LICENSED SURVEYS PAGE 56-72 IN THE OFFICE OF THE RECORDER OF SAN LUIS OBISPO. THOSE STATIONS ARE THE POINTS DESIGNATED "2966", HAVING A PUBLISHED POSITION OF: NORTHING 2,313,522.14' AND 5,715,449.93'; AND "2290" HAVING A PUBLISHED POSITION OF: NORTHING 2,313,592.77', EASTING 5,715,858.29'. THE RESULTING BEARING FROM "2966" TO "2290" BEING NORTH 00° 11' 13.91" EAST. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.
 - ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.9999712. THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 102.78 FEET FOR PT. NO. 50. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET.
 - THE CONVERGENCE ANGLE IS: -1°36'59.61" AT PT. NO. 50.
 - THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AND A DERIVED CALIFORNIA ORTHOMETRIC HEIGHTS OF 1988 (DERIVED COH88). THE DERIVED COH88 WAS CALCULATED AT POINT NUMBER 50 USING THE FOLLOWING VALUES: A NAD83 ELLIPSOID HEIGHT OF 90.63 FEET, AND A GEOID12B GEOID HEIGHT OF -12.15 FEET. RESULTING IN A DERIVED COH88 ELEVATION OF 102.78 FEET.
 - THE CONTOUR INTERVAL IS 1 FOOT.
 - PHOTOGRAPHY DATED: 7/30/2020
 - UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
 - UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
 - EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.

SURVEYOR'S STATEMENT

THIS MAP REPRESENTS A SURVEY MADE BY ME AT THE REQUEST OF LOS OSOS COMMUNITY SERVICES DISTRICT. THE FIELD SURVEY WAS PERFORMED ON JULY 30, 2020

DATE: 8/7/2020

 CLAYTON L. BRADSHAW, LS 8298



PROJECT NO.	384-0122
SURVEYED BY:	MC 7/30/2020
DRAFTED BY:	MC 8/2020
CHECKED BY:	CLB 8/2020

SIGNATURE
 DATE SIGNED

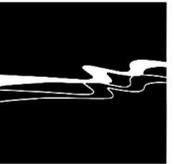
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LOS OSOS COMMUNITY SERVICES DISTRICT
 TOPOGRAPHIC SURVEY
 FERRELL AVENUE FOOTPATH

JOB #: 384-0122
 DESIGNERS:
 DRAWN BY: MC
 DATE: 8/25/2020

DRAWING NO.
 S-1
 3 OF 5 SHEETS



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SIGNATURE

DATE SIGNED

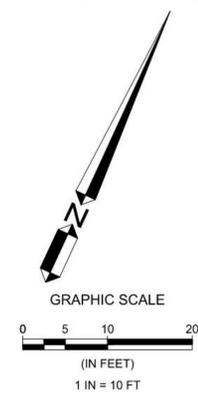
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074-251-006

REFERENCE KEYNOTES

XXX	DESCRIPTION
101	ASPHALT PATH, SEE DETAIL 1, SHEET D-1
102	AG BASE SHOULDER, SEE DETAIL 1, SHEET D-1
103	REMOVABLE WOOD BOLLARD, SEE DETAIL 5, SHEET D-1
104	LODGE POLE FENCE, SEE DETAIL 2, SHEET D-1
105	METAL POST TO BE REMOVED
106	GRADING FOR PATH
107	LIMIT OF GRADING / DISTURBANCE
108	MAINTENANCE YARD FENCE TO BE MOVED BY LOCSD
109	TWO (2) 4" SCHEDULE 40 PVC PIPE SLEEVES FOR FUTURE USE. PIPE DEPTH TO BE 24". MARK ENDS WITH METAL DISCS.
110	PATH SIGN PER COUNTY STANDARD SIGN DETAIL. SEE DETAIL 5, SHEET D-1
EXISTING FEATURES	
201	BACKFLOW DEVICE - PROTECT IN PLACE
202	HOSE BIB - PROTECT IN PLACE AND MAINTAIN WATER SUPPLY TO HOSE BIB
203	STEEL POSTS TO REMAIN



**LOS OSOS COMMUNITY SERVICES DISTRICT
LAYOUT & GRADING PLAN
FERRELL AVENUE FOOTPATH**

JOB #: 384-0122
DESIGNERS: EAS
DRAWN BY: EAS
DATE: 8/12/2020

DRAWING NO.

L-1

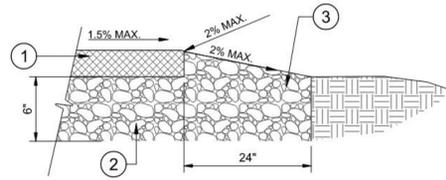
4 OF 5 SHEETS



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LEGEND:

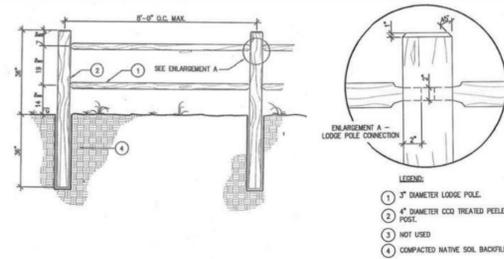
- ① 2.5" DEEP ASPHALT PAVING AS NOTED ON PLANS
- ② 6" DEEP CLASS 2 BASE
- ③ EXTEND BASE MATERIAL 24" BEYOND EDGE OF PAVING

NOTES:

- A. SUB-GRADE PREP: OVER-EXCAVATE 12" AND RE-COMPACT TO 95%
- B. COMPACT CLASS 2 BASE TO 95%
- C. FINISH GRADE 1/4" MAX BELOW PAVING

NOTE:

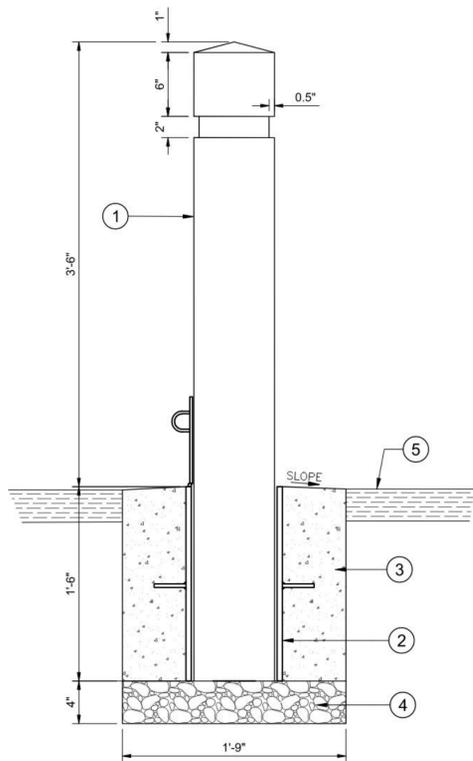
- A. DETAIL IS FROM COUNTY OF SAN LUIS OBISPO STANDARD DETAIL B-10.



- LEGEND:**
- ① 3" DIAMETER LODGE POLE
 - ② 4" DIAMETER CDD TREATED PRELEX POST
 - ③ NOT USED
 - ④ COMPACTED NATIVE SOIL BACKFILL

1 ASPHALT PATH
 1 1/2" = 1'-0" 321216-03

2 LODGE POLE FENCE
 NTS 323101.61-02

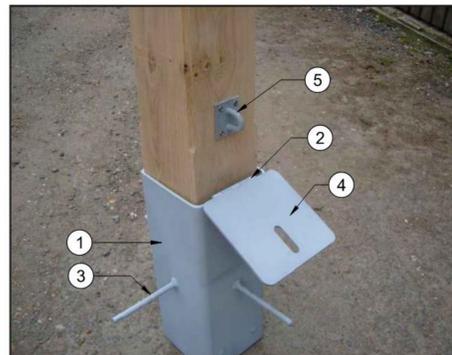


LEGEND:

- ① 6 x 6 CONSTRUCTION HEART REDWOOD POST, SANDED SMOOTH
- ② GALVANIZED STEEL BRACKET, SEE BRACKET DETAIL, THIS SHEET
- ③ SQUARE CONCRETE FOOTING
- ④ 3/4" DRAIN ROCK
- ⑤ PAVEMENT, SEE PLANS

NOTE:

- A. LOCSD WILL PROVIDE PADLOCK FOR SECURING BOLLARD



LEGEND:

- ① 1/2" THICK GALVANIZED STEEL SLEEVE - 1' - 6" LONG AND LARGE ENOUGH TO EASILY FIT A 6 X 6 WOODEN POST INSIDE.
- ② 4" LONG PIANO HINGE WELDED TO SLEEVE AND LID.
- ③ #4 REBAR 3" LONG, ONE EACH SIDE, WELDED WITH CONTINUOUS BEAD.
- ④ 1/2" THICK GALVANIZED STEEL LID WITH OPENING TO ALLOW LOCK LOOP TO FIT EASILY THROUGH.
- ⑤ GALVANIZED STEEL PADLOCK LOOP ATTACHED WITH FOUR WOOD SCREWS

NOTE:

- A. PRIOR TO FABRICATION, CONTRACTOR TO PROVIDE SHOP DRAWINGS OF GALVANIZED STEEL POST BRACKET SIMILAR TO THE ONE PICTURED FOR APPROVAL BY ENGINEER.

3 REMOVEABLE WOOD BOLLARD
 1/8" = 1'-0" 129330-09

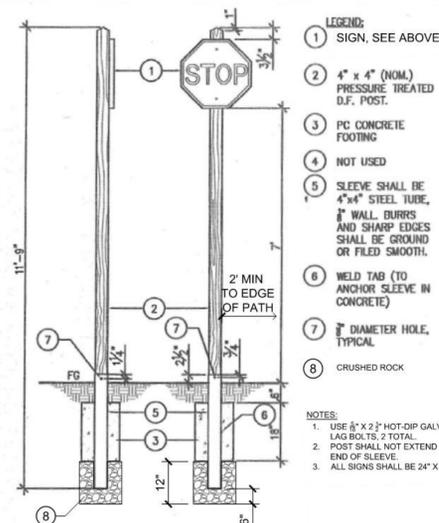
4 REMOVEABLE WOOD BOLLARD BRACKET
 NTS 129330-10

5 SLO COUNTY SIGN POST STANDARD
 NTS 340161-05



SIGN NOTES:

- A. SIGN SHALL BE STANDARD STATE PARK BROWN IN COLOR WITH WHITE LETTERING, ARROW, AND 1-INCH BORDER
- B. PROVIDE SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION.
- C. LETTERS SHALL BE 5" TALL
- D. SIGN SHALL BE 63 MIL THICK ALUMINUM



- LEGEND:**
- ① SIGN, SEE ABOVE
 - ② 4" x 4" (NOM.) PRESSURE TREATED D.F. POST.
 - ③ PC CONCRETE FOOTING
 - ④ NOT USED
 - ⑤ SLEEVE SHALL BE 4"x4" STEEL TUBE, 1/8" WALL, BURRS AND SHARP EDGES SHALL BE GROUND OR FILED SMOOTH.
 - ⑥ WELD TAB (TO ANCHOR SLEEVE IN CONCRETE)
 - ⑦ 3" DIAMETER HOLE, TYPICAL
 - ⑧ CRUSHED ROCK

- NOTES:**
- 1. USE 8" x 2 1/2" HOT-DIP GALVANIZED LAG BOLTS, 2 TOTAL.
 - 2. POST SHALL NOT EXTEND BEYOND END OF SLEEVE.
 - 3. ALL SIGNS SHALL BE 24" X 24"

SIGNATURE

DATE SIGNED

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LOS OSOS COMMUNITY SERVICES DISTRICT
 DETAILS
 FERRELL AVENUE FOOTPATH

JOB #: 384-0122
 DESIGNERS: EAS
 DRAWN BY: EAS
 DATE: 9/17/2020

DRAWING NO.

L-2

5 OF 5 SHEETS

Cost Comparison

Ferrell Ave. Footpath

Los Osos Community Services District

Job #: 0384-0122

Date: September 8, 2020



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Path Surface Considerations/Research:

1. Grover Beach put in Decomposed Granite (DG) paths the Spring of 2020. They mixed concrete into the dry DG to stabilize it. Even with the concrete; gophers and weeds have been a problem already. Grover Beach installed the DG because it was less expensive than concrete sidewalks and they only wanted temporary walkways.
2. The subgrade treatment would be the same for DG or asphalt.
3. The Class 2 base amount and treatment would be the same for DG or asphalt.
4. Liquid polymer treatment for DG is difficult to get deep into the product to make it as stable as asphalt.
5. Asphalt will be more stable than DG in the long term. It will need sealing about once every 5 years.
6. DG should be resealed about once every five years and patched as needed.

Asphalt Surface:

\$14,000 to 15,000 for the asphalt material, delivery, placement, and compaction.

Estimated price does not include sub-base prep and class 2 base material, delivery, placement, or compaction.

Decomposed Granite Surface:

\$12,000 to \$13,000 for the DG and stabilizer material, delivery, mixing, placement, and compaction.

Estimated price does not include sub-base prep and class 2 base material, delivery, placement, or compaction.

Engineer/Professional: Ann Sever, PLA

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Comments from City of Grover Beach regarding Pathway Material

1. Did you consider making the paths concrete or asphalt? If so, why did you choose DG? This was an economic decision. Our development code requires properties to develop their frontages based on meeting certain thresholds but there are many gaps between developed frontages. We were doing street improvements and one of our Council goals was to improve walking conditions on streets we rehab. We didn't want to use our bond funds for this purpose but we did want to get a walkway in place as a temporary measure. To be clear, we see this as a temporary measure even though I am guessing it will persist for many years.
2. Do you have data regarding the long term maintenance costs of DG vs. asphalt? No, not really. The decision was based on initial cost and the temporary nature of the install. Maintenance is an issue, especially weeds and gophers. Of course the cost depends on how well you intend to maintain. We installed in spring and already have weed and gopher issues.
3. What type of DG did you install, stabilized or un-stabilized, and why? Stabilized. Non stabilized doesn't last and ends up scattered everywhere. As a side note, in past installations near landscape areas the DG destroyed nearby pop up sprinklers.
4. If you used stabilized, what type of binder did you use, pre-mixed polymer or spray on resin? Neither. We used concrete mixed in with the DG. Easier to blend and easy for the crew to repair. The polymers are nice and I spec'd projects in both Pismo and AG that use the polymers. They don't really hold up much better in my opinion and the contractors seem to only want to treat the top 1" which just breaks away.