



October 1, 2020

TO: LOCSD Board of Directors
FROM: Ron Munds, General Manager
SUBJECT: Agenda Item 9I – 10/01/2020 Board Meeting
Ferrell Avenue Pathway Project

DESCRIPTION

President

Charles L. Cesena

Vice President

Christine M. Womack

Directors

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

General Manager

Ron Munds

District Accountant

Robert Stilts, CPA

Unit Chief

Scott M. Jalbert

Battalion Chief

Paul Provence

STAFF RECOMMENDATION

This item will be approved along with the Consent Calendar unless it is pulled by a Director for separate consideration. If so, Staff recommends that the Board adopt the following motion:

Motion: I move that the Board:

- 1. Authorize a formal bid process for the Ferrell Avenue Pathway Project; and***
- 2. Authorize the General Manager to execute the related contract if the lowest responsive bid is within the project's estimated cost of \$37,900.***

Discussion

The Ferrell Pathway Project has been under consideration by the Parks and Recreation Committee (PRAC) for over 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 intention to use all or part of these funds for the Ferrell Avenue Pathway Project. With the additional money, the Board, at their July 2, 2020 meeting, approved a proposal from the Wallace Group to develop a pathway design, cost estimates and construction documents for the project.

Project Design Elements

Mailing Address:

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Offices:

2122 9th Street, Suite 110
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Pathway Material

The PRAC discussed the project at their April 21st, August 18th and September 22nd meetings. The Committee discussed at length 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:

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

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 contractor, the City of Grover Beach and internet research on installation costs and maintenance requirements (summary attached), staff recommended and the PRAC approved using asphalt as the preferred pathway material.

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.

Sensitive Habitat Barrier

The PRAC also discussed the kind of barrier to be used to protect the sensitive habitat area required in the permit from the US Fish and Wildlife Service. Examples of fencing were provided by Wallace Group and the Committee consensus was to use a wood split rail fence, two rails high. Aesthetics were a key point in making the decision.

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

Parks and Recreation Advisory Committee Recommendation

The PRAC, at their September 22nd meeting, supported recommending that the Board approve the Ferrell Avenue Pathway Project as designed and move forward with soliciting bids for construction.

Attachments

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.



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 (LOCSD) AND SAN LUIS OBISPO COUNTY (SLOCO) STANDARD DRAWINGS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF LOCSD.
- 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 LOCSD 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.
- COMPACTATION 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 COMPACTION 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 COMPACTION 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 LOCSD 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 (LOCSD). THE LOCSD 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 LOCSD 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 LOCSD INSPECTOR, ACTING ON BEHALF OF THE LOCSD 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 LOCSD 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 LOCSD 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-BUILT'S") ARE TO BE PREPARED BY THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE LOCSD.

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
(100.0 FS)	101.50 FS	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
(2.00)%	2.00%	SLOPE PERCENTAGE
—	—	REMOVE UTILITY
—	—	EDGE OF PAVEMENT
—	—	REDUCER / INCREASER
—	WL	WATER LINE
—	SSFM	SEWER FORCE MAIN
—	SS	GRAVITY SEWER LINE
—	SD	STORM DRAIN
—	GAS	UNDERGROUND GAS LINE
—	UTL	UNDERGROUND UTILITY LINE
—	ELE	UNDERGROUND ELECTRICAL LINE
—	CTV	UNDERGROUND CABLE TELEVISION LINE
—	TEL	UNDERGROUND TELEPHONE LINE
—	—	RIGHT OF WAY
—	—	EASEMENT
—	—	CENTERLINE
—	—	CHAIN LINK FENCE
—	—	FLOWLINE



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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	DRAWEWAY	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	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	TC	TOP OF CURB
FS	FINISH SURFACE	TG	TOP OF GRATE
FT	FEET	TP	TOP OF PAVEMENT
G	GAS	TYP	TYPICAL
GA	GAGE	TW	TOP WALL
GALV	GALVANIZED	UTL	COMMON TRENCH UTILITIES
HDP	HIGH DENSITY POLYETHYLENE	VAR	VARIETIES
HGL	HYDRAULIC GRADE LINE	VERT	VERTICAL
ID	INSIDE DIAMETER	W	WATER
IN	INCHES	WL	WATER LINE
INV	INVERT	WM	WATER METER
JP	JOINT POLE	WV	WATER VALVE
JT	JOINT UTILITY TRENCH		
L	LENGTH		
LAT	LATERAL		
LF	LINEAR FEET		
LP	LIGHT POLE		



Know what's below.
Call before you dig.

LOS OSOS COMMUNITY SERVICES DISTRICT	NOTES
FERRELL AVENUE FOOTPATH	

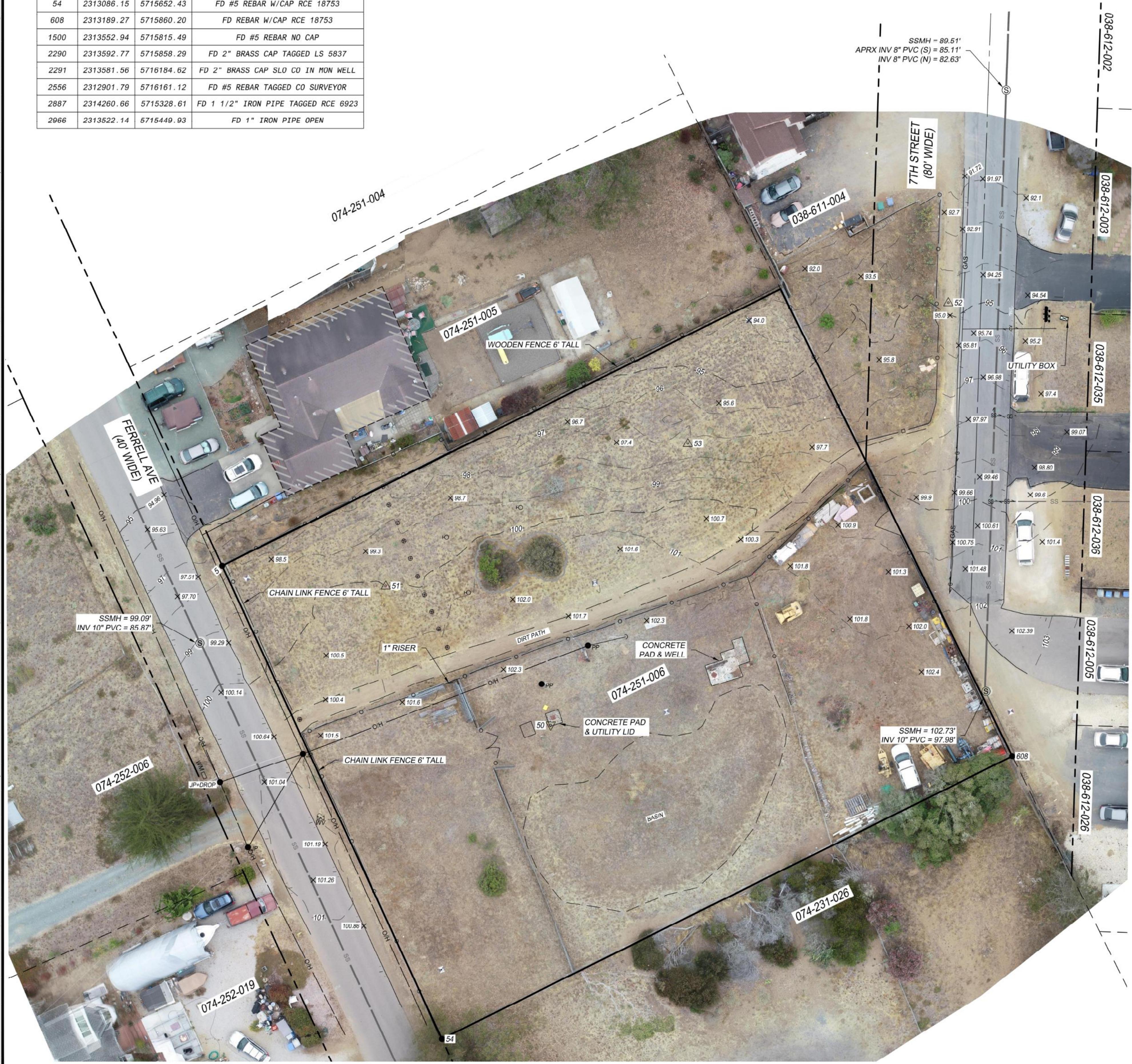
JOB #:	384-0122
DESIGNERS:	EAS
DRAWN BY:	EAS
DATE:	8/25/2020
DRAWING NO.	T-2

2 OF 5 SHEETS

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

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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For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or email at mhwang@uiowa.edu.

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

SCALE

0 10 20 40

1 INCH = 20 FEET

SIGNATURE
DATE SIGNED

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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	GAS LINE
SS	SANITARY SEWER LINE
O/H	OVERHEAD UTILITY LINE
WL	WATER LINE
—	TRAFFIC STRIPING (SOLID)
—	TRAFFIC STRIPING (DASHED)
(S)	SANITARY SEWER MANHOLE
ELEC	ELECTRICAL BOX
WM	WATER METER
GV	GAS VALVE
ICV	IRRIGATION CONTROL VALVE
WV	WATER VALVE
HO	HOSE BIB
←	GUY WIRE
JP	JOINT UTILITY POLE
PP	POWER POLE
⊕	BOLLARD/SMALL POLE
MAIL BOX	MAIL BOX
△ ¹	SURVEY CONTROL POINT AND NUMBER
●	FOUND MONUMENT AS DESCRIBED
~ G ~	BRUSH LINE/DRIP LINE
~ SS ~	GAS PAINT MARK
20" PINE	SANITARY SEWER PAINT MARK
●	TREE WITH DIAMETER NOTED
	BUILDING
	CONCRETE

- 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 80° 11' 13.91" EAST. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.

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

CAB

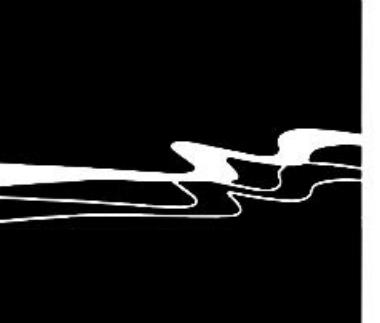
CLAYTON L. BRADSHAW, LS 8298



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

JOB #:	384-0122
DESIGNERS:	
DRAWN BY:	MC
DATE:	8/25/2020
DRAWING NO.	

DRAWING NO.
S-1
3 OF 5 SHEETS



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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.

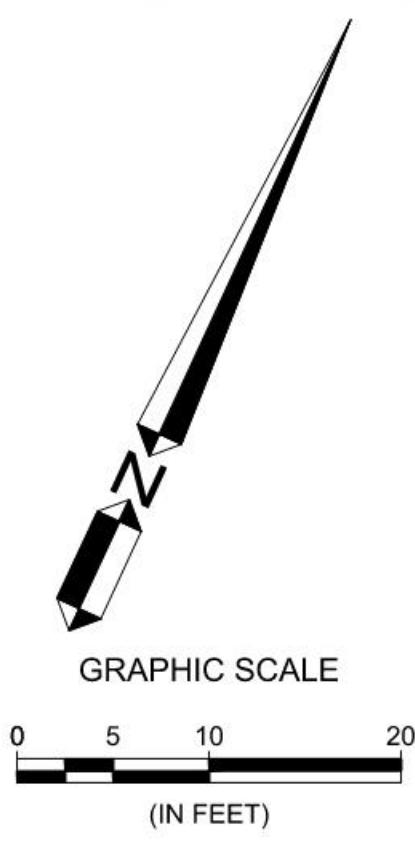
L-1

4 OF 5 SHEETS



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	LOGE 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
111	SAW CUT LINE - INSTALL COUNTY STANDARD DRIVEWAY APPROACH B-1a
	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





CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES

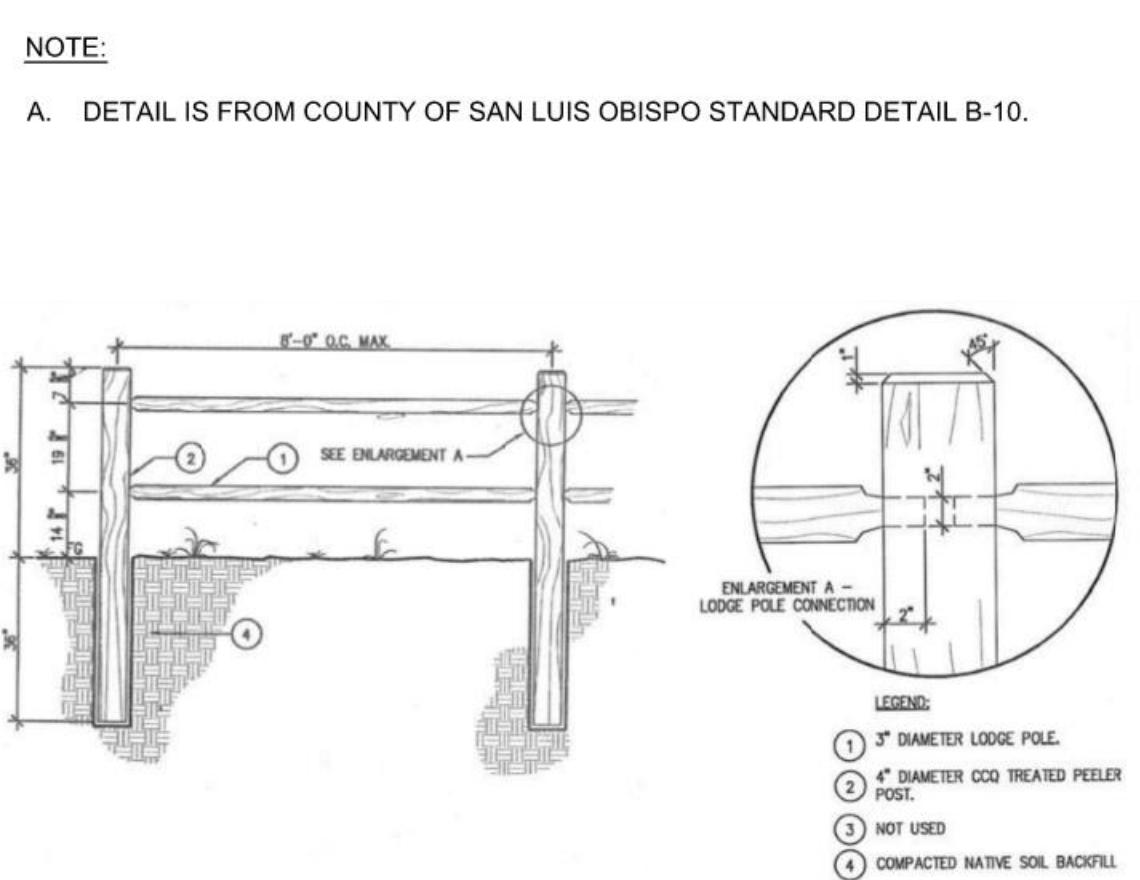
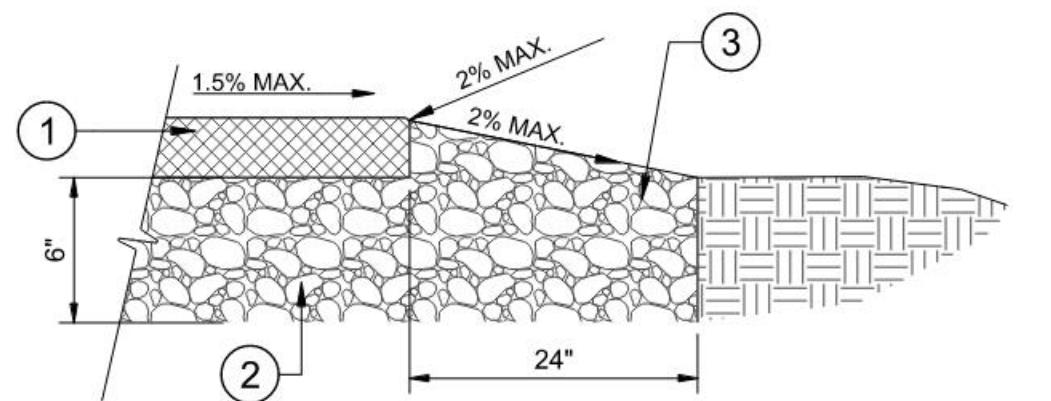
612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us

SIGNATURE _____
DATE SIGNED _____

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LOS OSOS COMMUNITY SERVICES DISTRICT
DETAILS
FERRELL AVENUE FOOTPATH



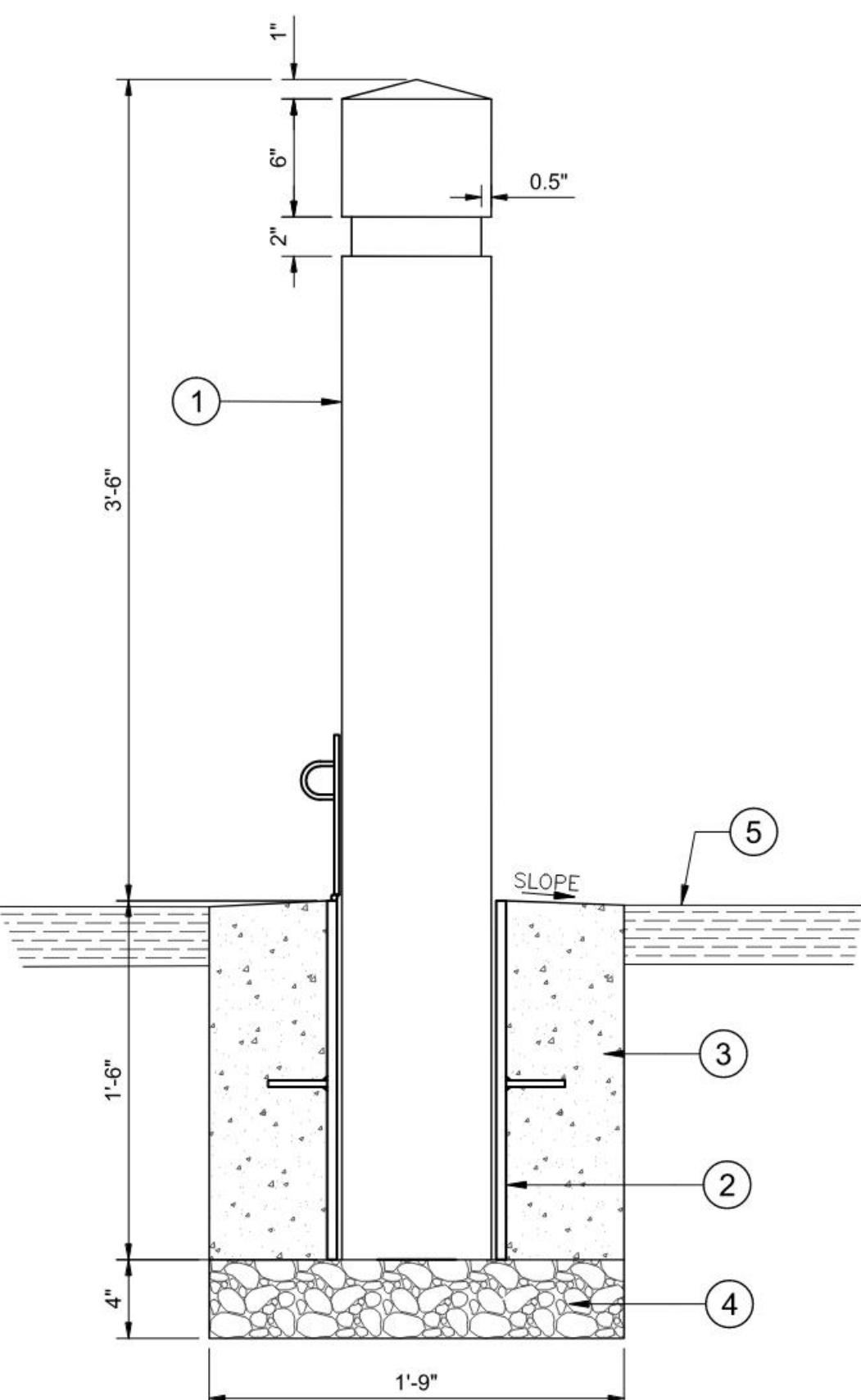
1 ASPHALT PATH

1 1/2" = 1'-0"

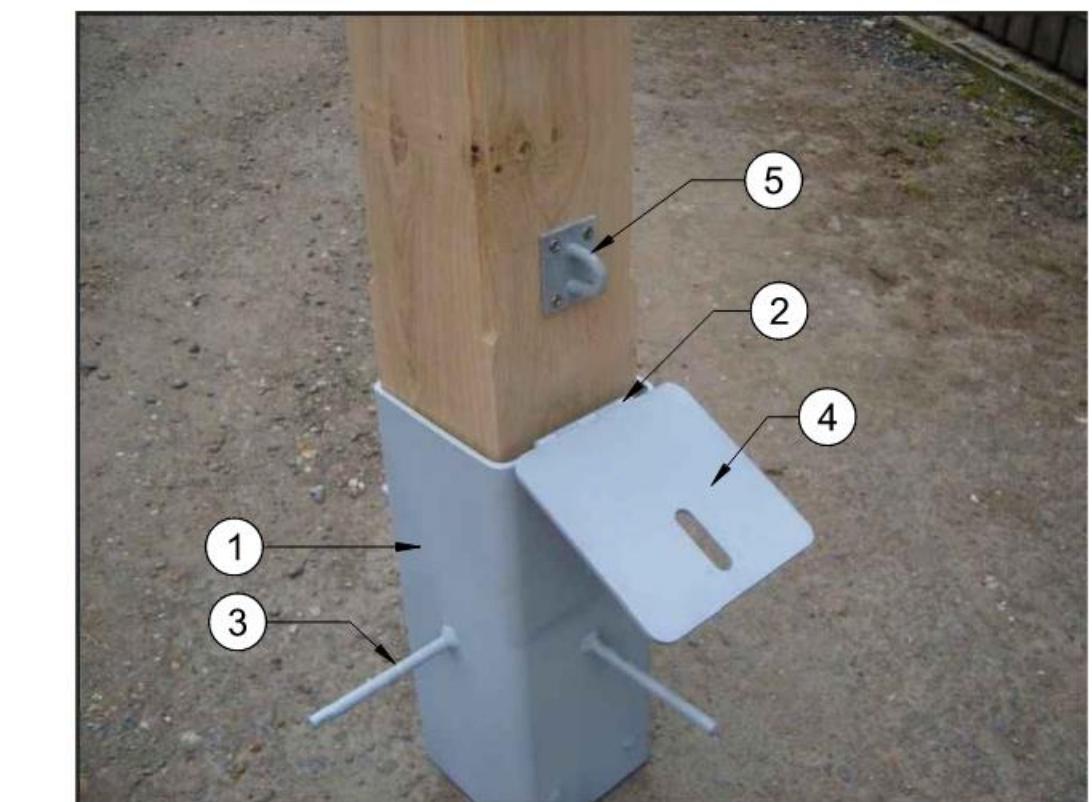
321216-03

2 LODGE POLE FENCE

323101.61-02



NOTE:
A. LOCSD WILL PROVIDE PADLOCK FOR SECURING BOLLARD



3 REMOVEABLE WOOD BOLLARD

1/8" = 1'-0"

129330-09

4 REMOVEABLE WOOD BOLLARD BRACKET

NTS

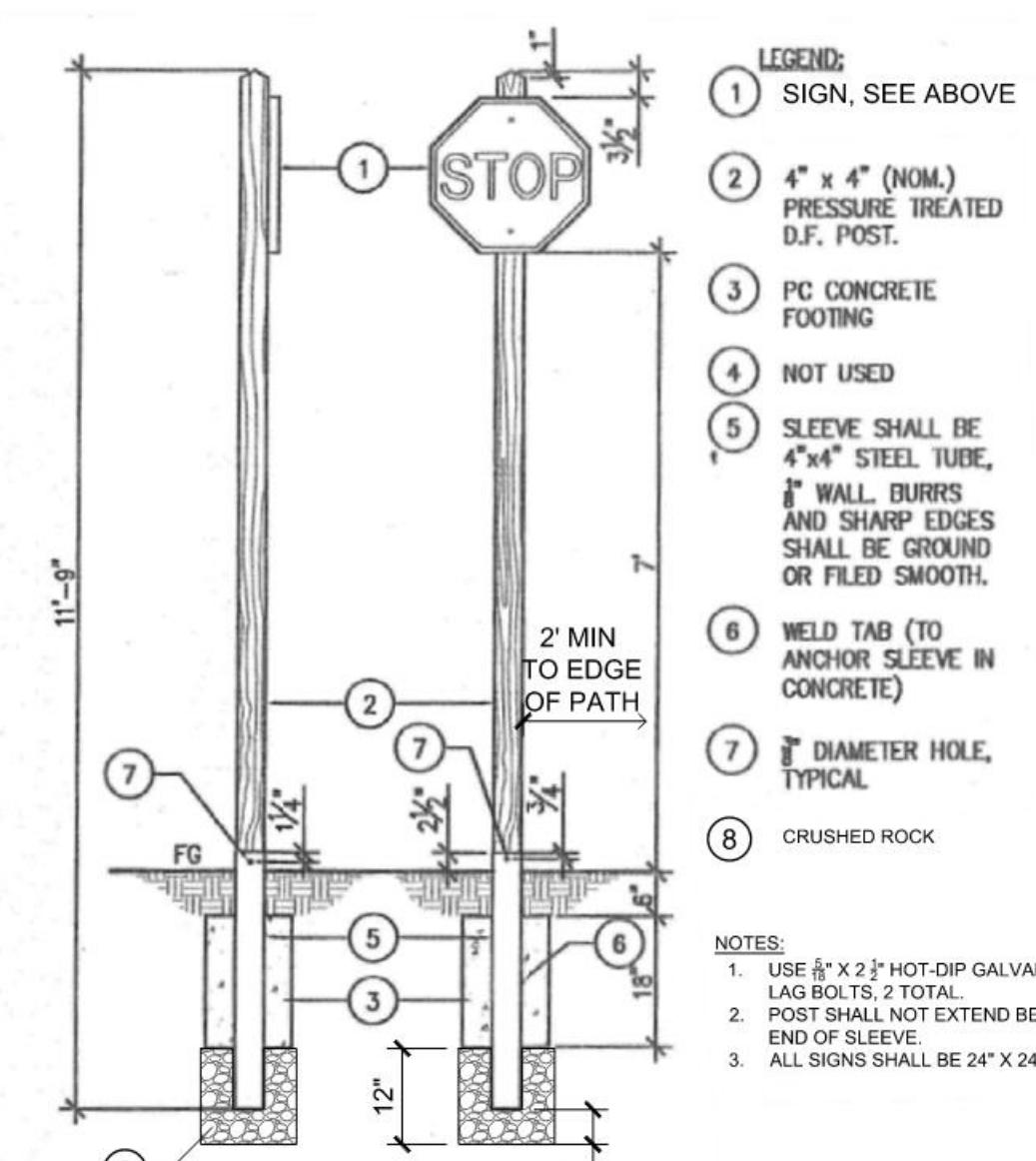
129330-10

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

5 SLO COUNTY SIGN POST STANDARD

NTS

340161-05



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JOB #: 384-0122
DESIGNERS: EAS
DRAWN BY: EAS
DATE: 9/24/2020

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

CIVIL AND
TRANSPORTATION
ENGINEERING

CONSTRUCTION
MANAGEMENT

LANDSCAPE
ARCHITECTURE

MECHANICAL
ENGINEERING

PLANNING

PUBLIC WORKS
ADMINISTRATION

SURVEYING /
GIS SOLUTIONS

WATER RESOURCES

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.



BIKE SLO COUNTY

bikeslocounty.org

September 21, 2020

Los Osos Community Services District,
Parks and Recreation Advisory Committee
2122 9th Street, Suite 110
Los Osos, CA 93402

RE: Ferrell Avenue Pathway

Greetings Director Matthew Fourcroy, Chairperson:

We, the Executive Director and Board President of Bike SLO County, strongly support the Ferrell Avenue Pathway project in Los Osos. Bike SLO County is committed to serving our community by promoting improved bicycle safety through education and expanded infrastructure through advocacy. We offer many programs that serve to educate and empower cyclists of all ages and abilities. The single biggest obstacle community members cite as why they do not make more trips or commute by bicycle is the lack of safety they feel riding on roadways shared with motor vehicles present. The Ferrell Avenue Pathway project meets our mission and will directly serve a wide group of people from elementary school students to adults by building a safe and connected bikeway away from motor vehicles, serving people on bikes and on foot.

The Ferrell Avenue Pathway project will create an upgraded all-season surface suitable for all users. We understand that the unimproved surface makes it difficult at the best of times, and so we support the use of the slightly more expensive asphalt over the use of decomposed granite for year-round ease of users.

On behalf of Bike SLO County, we offer this letter of support for the Ferrell Avenue Pathway project.

Sincerely,

Gary Havas
Board President

Rick Ellison
Executive Director