



BOARD OF SUPERVISORS
AGENDA LETTER
Clerk of the Board of Supervisors
105 E. Anapamu Street, Suite 407
Santa Barbara, CA 93101
(805) 568-2240

Agenda Number:

Department Name: Public Works
Department No.: 054
For Agenda Of: November 7, 2017
Placement: Administrative
Estimated Tme: N/A
Continued Item: No
If Yes, date from:
Vote Required: Majority

TO: Board of Supervisors
FROM: Department Director: Scott D. McGolpin, Public Works Director, 568-3010
Contact Info: Chris Sneddon, Deputy Director, Transportation 568-3064
SUBJECT: Ortega Ridge Road Slide Repair Project; County Project No. 820672; First Supervisorial District

County Counsel Concurrence

As to form: Yes

Auditor-Controller Concurrence

As to form: Yes

Other Concurrence: Risk Management

As to form: Yes

Recommended Actions:

That the Board of Supervisors:

- a) Approve and authorize the Chair to execute the attached Professional Services Revenue Contract with GHD Services, Inc. (not a local vendor), to allow for additional funding of the Ortega Ridge Road Slide Repair Project; County Project No. 820672 in the First Supervisorial District; and
- b) Find that the proposed project consists of the operation, repair, maintenance, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that previously existing, including but not limited to existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities, and that the proposed project is therefore exempt from California Environmental Quality Act pursuant to 14 CCR 15301(c) and approve the filing of the attached Notice of Exemption on that basis.

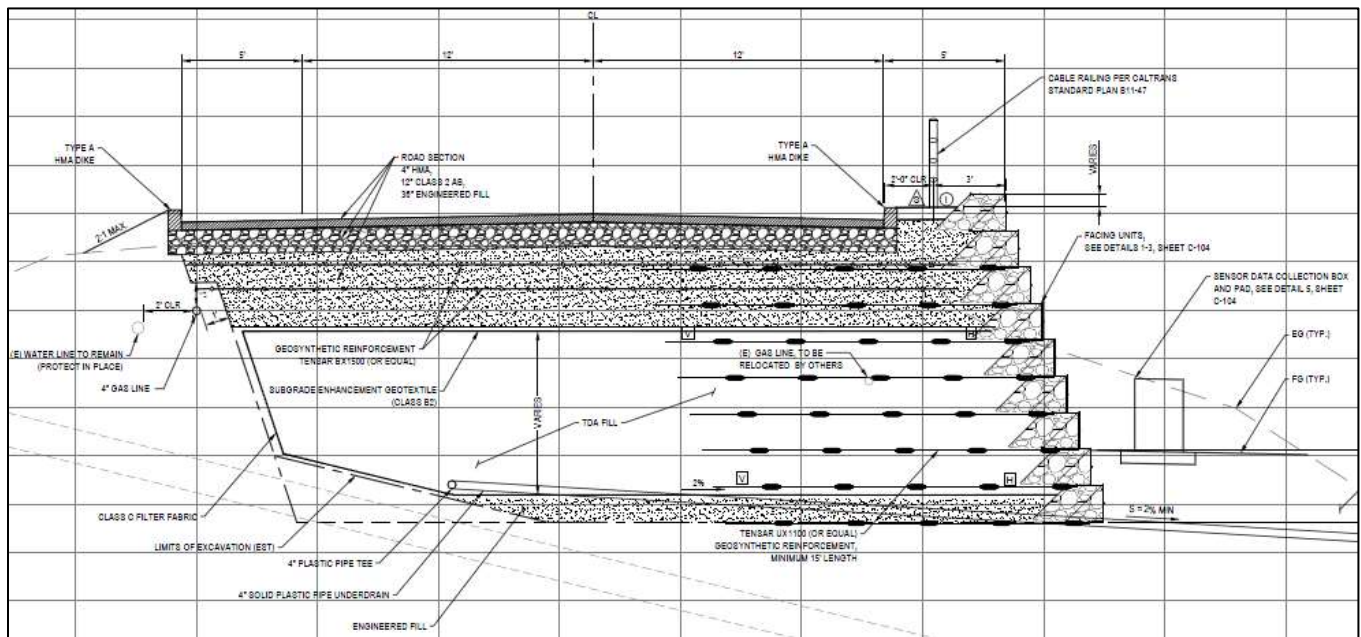
Summary Text:

This item is on the agenda to request approval and execution of a Professional Services Agreement (Agreement) with GHD Services, Inc. to provide for design and construction of repairs to Ortega Ridge Road. With approval of this Agreement, the County would be able to leverage local funds with up to \$330,800 of grant funding to complete repairs to this failed section of roadway.

Ortega Ridge Road has been steadily settling towards failure for years. Because of the expense and complexity of a comprehensive fix, it has been maintained with spot repairs. After years of maintenance to keep the road open, it finally failed to the point where a lane had to be closed, creating a one-lane

section of roadway. In the absence of funding to fix it, the road remained that way until the County identified a grant source to leverage local funding and allow for its restoration to two lanes.

On February 14, 2017, your Board approved a Construction Cooperative Agreement (CCA) executed between the County of Santa Barbara and the California Department of Resources Recycling and Recovery (CalRecycle) that designated the County as the Construction Administrator for the Ortega Ridge Road Slide Repair Project, and designated GHD as the Contract Administrator for preliminary engineering and construction (a requirement of the CCA). GHD is performing design tasks directly related to the mechanically stabilized wall and lightweight fill elements of the project, while the County is performing the remaining engineering design and construction management tasks. The agreement provides funding up to \$330,800 for construction costs. This is in addition to the TDA grant funding previously authorized on March 15, 2016.



Section view of proposed Ortega Ridge Road Slide Repair (MSTDA) Project, showing TDA lightweight fill, mechanically-stabilized earth wall, geosynthetic reinforcement, engineered fill and structure section.

The attached Professional Services Agreement is discussed below and is recommended for execution to garner additional funding for the project.

Professional Services Agreement

The standard Professional Services Agreement for architectural and engineering consultant contracts was modified for use on this project as a revenue contract. The Agreement identifies the County as the Construction Administrator, with responsibilities to advertise, award, and administer a construction contract to perform the project. The Agreement designates GHD Services, Inc. as the Contract Administrator for preliminary engineering and construction, as well as assigning GHD Services, Inc. as the provider of reimbursement funding from CalRecycle for the pilot project.

Background:

This section of Ortega Ridge Road was re-aligned during the 1950's. This work included raising the roadway profile significantly by bringing in locally-derived embankment materials to fill an existing natural drainage near the top of the ridgeline where Ortega Ridge Road is situated. The maximum fill height was approximately 23 feet, and was composed of on-site cut materials, primarily highly

expansive clay marine mudstones of the Rincon Shale Formation. The Rincon Shale Formation is susceptible to shallow sloughing and soil creep, with failure primarily occurring in the upper 15 feet. In 1969, further roadway modification was conducted, raising the profile by 2-3 feet.

Roadway repairs in the past have included, shallow excavation and replacement of the asphalt roadway section; re-paving (overlying) the roadway; filling the pavement cracks with asphalt sealant; and reconstruction of the over-side drains and asphalt concrete drainage dike. These actions, while providing initial increased roadway smoothness, have added additional weight to the roadway and top of the embankment. Over the decades, this additional weight has contributed to the differential settlement of the roadway and slow creep of the support embankment. A geological investigation conducted in 2006 determined the existing subgrade and embankment materials within the project site were overly saturated and had a low relative compaction. The proposed project will help mitigate these conditions and bring the roadway back to full service.

The proposed project is located on Ortega Ridge Road, approximately 850 feet north of Greenwell Avenue, near Summerland, CA. The County is working with CalRecycle to design a long-term solution to the differential settlement and cracking of the roadway surface and creep failure of the supporting embankment at the project site. The project proposes to construct a mechanically stabilized earth (MSE) wall utilizing tire-derived aggregate (TDA) as a lightweight fill material. This project will reduce the load imposed on the underlying earthen materials and provide lateral resistance to the roadway fill. Approximately 225 linear feet of existing roadway and supporting embankment are proposed for replacement. Currently, a temporary roadway realignment has been constructed, allowing traffic to be maintained through this section utilizing an alternating single lane stop-controlled travel way.

Sensors will be installed during construction, and at the completion to monitor the design and construction performance, and will be used to modify future designs of this nature. Public Works will return to your Board to request the execution of a Site Access Agreement with CalRecycle to allow for this monitoring to be conducted.

On March 15, 2016, your Board adopted a Resolution to establish authority to submit an application to CalRecycle to secure grant funding for use of Tire Derived Aggregate (TDA) on County projects. The Department subsequently applied for and received partial funding through a competitive grant program administered by CalRecycle that will reimburse the County up to a maximum of \$133,835, to be used for design, construction costs, and construction administration for the Ortega Ridge project.

On February 14, 2017, your Board executed a CCA with CalRecycle to provide additional funding through their Pilot Project Program to complete design for and fund construction of this project, in coordination with the County of Santa Barbara. The CCA with CalRecycle provides funding up to \$330,800 for construction costs incurred from this identified pilot project funding source.

Fiscal and Facilities Impacts:

Budgeted: Yes

Fiscal Analysis:

Funding Sources	Total One-Time Project Cost
CalRecycle TDA Grant Funding	\$133,835
CalRecycle Pilot Project Funding	\$330,800
General Fund	\$85,000
Road Fund	\$39,079
Total	\$588,714

Narrative:

Approval of this Agreement will complete the requirements of the CCA previously executed by your Board on February 14, 2017. This Agreement will authorize GHD Services, Inc. to utilize the aforementioned Pilot Project funding of up to \$330,800 on behalf of CalRecycle. Combining the Pilot Project funding with the TDA grant and matching local road funds, construction would be fully funded. These funds are budgeted in Dept. 054, Fund 0016, Org. 0500, Program 2710, Account 7510.

Special Instructions:

Please forward the following to Public Works, Transportation, Attn: Gail Ocheltree, x 3094:

1. A certified, stamped Minute Order approving these Board actions.
2. Two duplicate original fully executed contracts (one original fully executed contract to remain on file with the Clerk of the Board)

Attachment:

Attachment A: Professional Services Agreement (3 originals)

Attachment B: Notice of Exemption

Authored by:

Christian Doolittle, PG, CEG, Project Manager, 739-8777