

ABBREVIATIONS

| 2) | AGGREGATE BASE (CLASS 2) |
|------|--|
| Е В) | ASPHALT CONCRETE (TYPE B) AGGREGATE |
| | AVENUE |
| | BACK OF CORB BACK OF WALK |
| | CABLE TV CAST-IN-DRILLED-HOLE |
| | CAST-IN-PLACE |
| | CORRUGATED METAL PIPE CONCRETE |
| | CONSTRUCTION |
| | CENTERLINE, CHAIN LINK, CLASS |
| | DRAINAGE INLET, DROP INLET |
| | DETAIL |
| | ELEVATION EMBANKMENT |
| | EDGE OF TRAVEL WAY |
| Т | EXISTING |
| | EXCAVATION EXCLUSION |
| | FINISH GROUND |
| | FLOW LINE FOOTING |
| | GRADE BREAK |
| | INSIDE DIAMETER |
| | |
| | LIP OF GUTTER |
| | LEFT MAXIMUM |
| | |
| | ORIGINAL GROUND, ON GRADE |
| | OVERHEAD PORTLAND CONCRETE CEMENT |
| | PROPOSED |
| | POLIVINIL CHLORIDE PIPE PAVEMENT |
| | REINFORCED CONCRETE PIPE |
| | ROCK SLOPE PROTECTION |
| W | RIGHT RIGHT OF WAY |
| | SLOPE |
| | STORM DRAIN STORM DRAIN MANHOLE |
| | SHEET |
| | STATION |
| | STANDARD STEEL |
| | TOP OF BANK |
| | TOP OF DIKE |
| | TOP OF GRATE TOP OF SIDEWALK |
| | TYPICAL |
| | VEGETATED BOULDER REVETMEN |
| | |



COUNTY OF SAN MATEO CALIFORNIA

HIGGINS CANYON ROAD BRIDGE AT MILLS CREEK EMBANKMENT AND WINGWALL REPAIRS [COUNTY PROJECT NO. RW909]

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED MAY 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077227

FIRE HYDRANT

MAILBOX

MONUMEN1

DRIVEWAY NUMBER

EXISTING TREE

HOUSE NUMBER ADDRESS

DETAIL NUMBER AND SHEET

🗣 BM BENCHMARK

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FIRE HYDRANT MARKERS

LEGEND

| SD STORM DRAIN LINE (EX) |
|---|
| STORM DRAIN LINE (EX) PROFILE |
| SANITARY SEWER LINE "ACTIVE" |
| SANITARY SEWER LINE "ACTIVE" PROFILE |
| W W |
| WATER LINE "ACTIVE" |
| WAT <u>ER_LINE</u> AC <u>TIVE</u> PROFILE |
| ACP WATER LINE (Abn) |
| ACP WATER LINE (Abn) PROFILE |
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| |
| GAS LINE ACTIVE GAS LINE "ACTIVE" PROFILE |
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| |
| JOINT COMMUNICATION LINE (EX) PROFILE |
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| O |
| |
| NATIVE BACKFILL |
| CLASS 2 AGGREGATE BASE – AB (CL. 2) (GRAVEL) |
| CLASS 3 CONCRETE |
| MISCELLANEOUS ASPHALT CONCRETE |
| DEEP LIFT AREAS (0.67' DEEP |
| + + + + + + + + + + + + + + + + + + + |
| KUCK SWALE AND FRENCH DRAIN |

| LECOMMUNI | CATION LINE (EX) | | | | | |
|-------------------|--------------------------------|--|--|--|--|--|
| | DMMUNICATION LINE (EX) PROFILE | | | | | |
| | | | | | | |
| — ROW — | RIGHT OF WAY | | | | | |
| | | | | | | |
| <u> </u> | TEMP EXCLUSION FENCE | | | | | |
| <u> </u> | TEMP SILT FENCE | | | | | |
| — <u>× ×</u> | TEMP FENCE (TYPE ESA) | | | | | |
| —0— | TEMP FENCE (TYPE CL-6) | | | | | |
| | | | | | | |
| ATIVE BAC | KFILL | | | | | |

| (Con | |
|--|--|
| \otimes | CLASS 1 FLEXIBLE OBJECT MARKER |
| N/W | NAIL AND WASHER |
| | |
| $\widehat{\hat{x}} \stackrel{(X)}{\hat{x}} $ | XX.XX) = EXISTING ELEVATION |
| × × × ×× | X.XX = PROPOSED ELEVATION |
| +0 | 0.00 = <u>STATION</u> |
| (0) | 0.00) 00.00 = (EXIST ELE) PR ELE AT LIP OF GUTTER |
| | WATER METER |
| | WATER VALVE |
| ⊠ GV | GAS VALVE |
| | JOINT UTILITY POLE |
| -@- | TELEPHONE POLE |
| < | GUY WIRE ANCHOR |
| O SSMH | SANITARY SEWER MANHOLE |
| © SSCO | SANITARY SEWER CLEANOUT |
| 0 SSFI | SANITARY SEWER FLUSHING INLET |
| O SDMH | STORM DRAIN MANHOLE |
| | UNDERDRAIN |

BUBBLE-UP BOX

UTILITY BOX

UNKNOWN MANHOLE

NOTES

- DIRECTED BY THE ENGINEER.
- ENGINEER
- FACILITIES WHICH ARE NOT TO BE RELOCATED.
- OTHERWISE DIRECTED BY THE ENGINEER.
- LAYOUT OF THE SPECIAL PROVISIONS.
- 8.
- PROVISIONS.
- ADEQUACY OF THE COMPLETED REMEDIAL WORK.

| REVETMENT |
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| |

6455 Almaden Expwy. Suite 100 San Jose, CA 95120 Phone: (408) 440-4542

EXIST SAKRETE WEIR

CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER CAL ENGINEERING & GEOLOGY, INC R.C.E. # 71938, R.G.E. # 2928 / EXP 12-31-23

APPROVED DATE: APRIL 15, 2022

BBLBX

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APPROVED

04/15/2022

CONTRACTOR SHALL CONFINE THEIR OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, RIGHTS OF ENTRY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS

CONTINUOUS DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY SECTION 10 OF THE SPECIAL PROVISIONS AND AS DIRECTED BY THE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE UTILITIES TO DETERMINE EXACT LOCATIONS AND DEPTH CONTRACTOR SHALL CALL USA NORTH 811 (USA) UNDERGROUND SERVICE ALERT A MINIMUM OF 72 HOURS IN ADVANCE OF ANY EXCAVATION OR TRENCHING WORK. USA MAY BE CONTACTED EITHER ON-LINE AT USANORTH811.ORG OR BY PHONE BY DIALING (800) 227-2600 OR 811. WHEN CALLING, BE PREPARED TO GIVE LOCATION AND NATURE OF WORK, START DATE, COMPANY NAME, ADDRESS AND TELEPHONE NUMBER.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND PRESERVATION OF ALL EXISTING WATER, GAS, SANITARY SEWER, ETC.

5. CONTRACTOR IS ADVISED THAT EXCAVATION MAY CONFLICT WITH SANITARY SEWER LATERALS, GAS LINES, WATER LINES AND OTHER UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

NO TREES, VEGETATION OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER. VEGETATION AND IMPROVEMENTS WHICH ARE DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS. THE SURVEY AND ASSOCIATED STAKING SHALL BE IN CONFORMANCE WITH SECTION 100, CONSTRUCTION STAKING AND

WHEN DIRECTED BY THE ENGINEER, CUT AND FILL SLOPE RATIOS SHALL BE VARIED TO AVOID TREES OR OTHER EXISTING IMPROVEMENTS.

CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING NEAR TREES AND ROOTS OF TREES TO REMAIN. SEE SECTION 102 OF THE SPECIAL

10. ANY DAMAGE, AS A RESULT OF THE CONTRACTOR'S OPERATION, TO PAVEMENT AND BASE MATERIAL THAT IS TO REMAIN SHALL BE REPAIRED, OR REMOVED AND REPLACED WITH SAME TYPE OF MATERIAL OR APPROVED EQUAL, AS DIRECTED BY THE ENGINEER, AND AT THE SOLE EXPENSE OF THE CONTRACTOR. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE

SHEET INDEX

- TITLE SHEET
- TRAFFIC CONTROL AND HAUL ROUTE LAYOUT AND CONTROL
- CREEK PROTECTION AND BYPASS PLAN
- SITE PLAN
- JNDERPINNING PLAN, ELEVATION, AND TYPICAL SECTION RETAINING WALL PLAN, ELEVATION, AND TYPICAL SECTION RETAINING WALL DETAILS
- STOCKPILE AND STAGING AREA
- GRADING AND DRAINAGE PLAN EROSION CONTROL PLAN
- PLANTING PLAN
- 13.-20. CALTRANS STANDARD DETAILS

BASIS OF BEARINGS

TEMPORARY PROJECT CONTROL POINTS (CP#11 AND CP#4) ARE CENTER OF HUB AND TACK AND MAG NAIL IN ASPHALT CONCRETE, RESPECTIVELY. BASIS OF BEARING IS LINE FROM CP#11 TO CP#4 TAKEN AS N35°54'21"W.

2018 CALTRANS STANDARD PLANS

A85 CHAIN LINK FENCE B3-6 RETAINING WALL DETAILS NO.2 - TYPICAL GUTTER DETAIL D73B PRECAST DRAINAGE INLET - TYPE G1 GUTTER DEPRESSIONS D78A D87A CORRUGATED METAL PIPE, DOWNDRAIN DETAILS D97C CORRUGATED METAL PIPE COUPLING DETAILS NO.3 HELICAL AND UNIVERSAL COUPLERS T51 TEMP SILT FENCE

T54 TEMP EROSION CONTROL BLANKET

COUNTY OF SAN MATEO STANDARD **PLANS**

N/A

| EVISION | DATE | DESIGNED BY: KF | HIGGINS CANYON ROAD | BRIDGE AT MILLS CREEK | SCALE: AS SHOWN | |
|--|------|---|---------------------------------|-----------------------|-------------------------|--|
| | | DRAWN BY: EV | EMBANKMENT AND WINGWALL REPAIRS | | DATE: APR 2022 | |
| | | CHECKED BY: CH | | | FILE NO.: E5003 | |
| | | ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY ENTER, REDWOOD CITY, CALIFC | | | 5th FLOOR RNIA 94063 | |
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REDWOOD CITY, CALIFORNIA 94063

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APPROVED:

DATE: <u>04/15/2</u>022 Un Mader Steller

ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023

DIVERSION NOTES

THE DIVERSION PLAN SHOWN IS SCHEMATIC. GENERAL REQUIREMENTS ARE PROVIDED BELOW. THE FULL REQUIREMENTS OF THE DIVERSION AND DEWATERING PLAN ARE SPECIFIED IN THE PROJECT TECHNICAL SPECIFICATIONS.

1. GENERAL

1.1 DEWATER THE PROJECT SITE AS REQUIRED TO FACILITATE IN-STREAM CONSTRUCTION AND TO REDUCE POTENTIAL IMPACTS TO WATER QUALITY DOWNSTREAM OF THE PROJECT SITE.

1.2. CONFIRM THAT A FAVORABLE LONG TERM WEATHER FORECAST (1 WEEK, MIN.) IS OBSERVED PRIOR TO PLACEMENT OF DIVERSION STRUCTURES.

1.3. PRIOR TO PLACEMENT OF DIVERSION STRUCTURE, REMOVE FISH FROM THE PROJECT REACH, IN ACCORDANCE WITH SECTION 2.

1.4. DIVERT FLOW ONLY WHEN THE DIVERSION CONSTRUCTION IS OTHERWISE COMPLETE. FOLLOWING ENGINEER'S APPROVAL OF THE COMPLETED WORK, REMOVE DIVERSION BEGINNING AT THE DOWNSTREAM LIMIT, IN AN UPSTREAM DIRECTION.

2. FISH REMOVAL

2.1 FISH RELOCATION SHALL BE COORDINATED WITH THE COUNTY'S BIOLOGIST PRIOR TO INSTALLING THE TEMPORARY CREEK DIVERSION SYSTEM. PROVIDE NO LESS THAN 72 HOUR NOTIFICATION TO THE COUNTY IN ADVANCE OF TEMPORARY CREEK DIVERSION WORK.

2.2. BLOCK NETS SHALL BE PROVIDED AND INSTALLED BY THE BIOLOGIST. BLOCK NETS SHALL BE MAINTAINED BY THE CONTRACTOR BOTH UPSTREAM AND DOWNSTREAM OF THE DIVERSION, THROUGHOUT THE PERIOD OF CONSTRUCTION. MAINTENANCE INCLUDES PERIODIC REMOVAL OF ACCUMULATED DEBRIS, AS NECESSARY TO ENSURE FUNCTION. BLOCK NETS SHALL BE REMOVED BY THE BIOLOGIST AFTER THE DIVERSION IS REMOVED AND THE IN CHANNEL WORK AREA IS RE-WATERED.

3. DIVERSION SYSTEM

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3.1. INSTALL A SEALED, TEMPORARY DIVERSION DAM CONSTRUCTED USING GRAVEL FILLED BAGS TO CAPTURE AND DIVERT STREAM FLOW UPSTREAM OF THE PROJECT SITE. THE DAM AND METHOD OF SEALING SHALL BE PLACED AT AN APPROPRIATE DEPTH TO CAPTURE SUBSURFACE STREAM FLOW, AS NEEDED TO DEWATER THE STREAMBED. GRAVEL SHALL BE WASHED PRIOR TO PLACEMENT IN BAGS. THE USE OF SAND WILL NOT BE ALLOWED. NO OTHER DIVERSION METHOD SHALL BE USED WITHOUT AUTHORIZATION OF THE ENGINEER. IF AN ALTERNATE DIVERSION METHOD IS PREFERRED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL, DETAILING THE DESIRED DIVERSION METHOD.

3.2. THE DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

3.3. IN THE EVENT OF A SIGNIFICANT STORM, THE CONTRACTOR SHALL BE PREPARED TO TAKE NECESSARY MEASURES TO INSURE SAFE PASSAGE OF STORM WATER FLOW THROUGH THE PROJECT AREA, WITHOUT DAMAGE TO EXISTING STRUCTURES, OR INTRODUCTION OF EXCESSIVE SEDIMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY EROSION CONTROL B.M.P.'S.

3.4. THE DIVERSION SHALL BE CAPABLE OF CONVEYING 150 CFS (ADULT HIGH FLOW) WITH LESS THAN 6 INCHES OF HEAD OVER THE TOP OF PIPE AT THE INLET, AND SHALL BE A MINIMUM DIAMETER OF 10", WITH A MANNING'S ROUGHNESS NOT EXCEEDING .012.

4. DEWATERING OF CONSTRUCTION AREAS

4.1. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY PUMPS, PIPING, FILTERS, SHORING, AND OTHER TOOLS AND MATERIALS NECESSARY FOR DEWATERING. IF A PUMPED SYSTEM IS RELIED UPON TO ENSURE DOWNSTREAM WATER QUALITY, A BACKUP PUMP OF EQUAL CAPACITY SHALL BE PROVIDED AT ALL TIMES AND THE PUMP MUST BE CONTINUOUSLY MONITORED.

4.2. DEWATERING ACTIVITIES WHICH MAY BE REQUIRED FOR CONSTRUCTION PURPOSES SHALL COMPLY WITH WATER QUALITY STANDARDS ISSUED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.

4.3. DISCHARGE OF WATER FROM THE DEWATERED CONSTRUCTION SITE, EITHER BY GRAVITY OR PUMPING, SHALL BE PERFORMED IN A MANNER THAT PREVENTS EXCESSIVE TURBIDITY FROM ENTERING THE RECEIVING WATERWAYS AND PREVENTS SCOUR AND EROSION OUTSIDE OF THE CONSTRUCTION SITE. PUMPED WATER SHOULD BE PRE-FILTERED WITH A GRAVEL PACK AROUND SUMPS FOR SUBSURFACE FLOWS AND A SILT FENCE AROUND PUMPS FOR SURFACE FLOW. PUMPED WATER SHALL BE DISCHARGED INTO ISOLATED LOCAL DEPRESSIONS, FILTER BAGS, SETTLING (BAKER) TANKS, OR TEMPORARY SEDIMENT BASINS, AS NECESSARY TO MEET WATER QUALITY REQUIREMENTS. WHERE WATER TO BE DISCHARGED INTO MILLS CREEK WILL CREATE EXCESSIVE TURBIDITY, THE WATER SHALL BE ROUTED THROUGH A SEDIMENT INTERCEPTOR OR OTHER FACILITIES TO REMOVE SEDIMENT FROM WATER.

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| VISION | DATE | DESIGNED BY: KF | HIGGINS CANYON ROAD | BRIDGE AT MILLS CREEK | SCALE: 1"=5' | | |
| | | DRAWN BY: EV | EMBANKMENT AND WINGWALL REPAIRS | | DATE: APR 2022 | | |
| | | CHECKED BY: CH | CREEK PROTECTION | N AND BYPASS PLAN | FILE NO.: E5003 | | |
| | | ANN MADER STILLM | 5th FLOOR | | | | |
| | | SAN | MATEO COUNTY | REDWOOD CITY, CALIFOR | RNIA 94063 | | |
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- UNIFORM, LEVEL FOOTING FOR LAGGING. CONCRETE LAGGING SHALL BE INSTALLED LEVEL AND PLUMB. DURABLE SPACERS SHALL BE PROVIDED BETWEEN LAGGING COURSES TO CREATE A 1/2-INCH GAP.
- SHALL BE FREE OF ORGANICS AND DELETERIOUS MATERIAL AND BE STOCKPILED ON-SITE. REMAINING EXCAVATED MATERIAL SHALL BE OFFHAULED TO AN APPROPRIATE LOCATION.

| | PILE DATA | | | | | | | |
|----------|-----------|------------------------------|-------------------------------|--|---------------------------------|----------------------------------|--|--|
| PILE NO. | STATION | TOP OF CIDH CONC ELE (FT) | CIDH CONC PILE LENGTH (FT) | TOP OF STL SOLDIER PILE ELE (FT) | STL SOLDIER PILE LENGTH (FT) | BOT OF S SOLDIER PILE (FT) | | |
| 1 | 0+08.0 | 180.83 | 15.00 | 187.33 | 14.50 | 172.83 | | |
| 2 | 0+14.0 | 177.17 | 22.17 | 187.33 | 18.00 | 169.33 | | |
| 3 | 0+20.0 | 174.33 | 24.33 | 187.33 | 21.00 | 166.33 | | |
| 4 | 0+26.0 | 171.33 | 22.00 | 188.00 | 24.00 | 164.00 | | |
| 5 | 0+32.0 | 170.73 | 22.00 | 188.60 | 24.50 | 164.10 | | |
| 6 | 0+41.17 | 166.25 | 20.00 | N/A | N/A | N/A | | |

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| | | ANN MADER STILL | MAN, DIRECTOR | OF PUBLIC WORK | S | 555 COUNTY CENTE | ER, 5th FLOOR |
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| | | CHECKED BY: CH | GRADING AND I | DRAINAGE PLAN | FILE NO.: E5003 |
| | | ANN MADER STILLMAN | I, DIRECTOR OF PUBLIC WORKS | 555 COUNTY CENTER, | 5th FLOOR |
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| EVISION | DATE | DESIGNED BY: KF HI(| GGINS CANYON ROAD | BRIDGE AT MILLS CREEK | SCALE: 1"=5' |
| | | DRAWN BY: EV | EMBANKMENT AND | WINGWALL REPAIRS | DATE: APR 2022 |
| | | ANN MADER STULMAN | | 555 COUNTY CENTER | FILE NO.: E5003 5th FLOOR |
| | | SAN MADEN SHELMAN, DH | COCOUNTY | REDWOOD CITY, CALIFO | RNIA 94063 |
| | FOR REDUCED PL ORIGINAL SCALE | 0 LANS I I I IS IN INCHES I I I | | 3 4 | SHEET 11 OF 20 |
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