

TEMPORARY EGRESS MAIN - BASED ON A CITY APPROVED BENCHMARK AS SHOWN ON THESE PLANS.
ALL EXISTING ELEVATIONS SHALL BE FIELD VERIFIED BY CONTRACTOR UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL NOT DESTROY EXISTING PERMANENT SURVEY MONUMENTS.

CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF MORGAN HILL STANDARD DETAILS FOR CONSTRUCTION WHICH ARE NEAREST MADE A PART OF THESE PLANS. DEVIATIONS FROM THE STANDARD DETAILS ARE NOTED ON THESE PLANS.

CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING WITH THE PROJECT ENGINEER AND CITY ENGINEER (MINIMUMALLY 15 DAYS BEFORE COMMENCEMENT OF WORK) TO DISCUSS ANY CONSTRUCTION, AN ENCROACHMENT PERMIT, PUBLIC UTILITY EASEMENT OR PUBLIC SERVICE EASEMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK PHASE. AT THAT TIME AN "INSPECTION REQUEST FORM" SHALL BE COMPLETED TO ENSURE PROPER SCHEDULING OF AN INSPECTION WITH THE CITY ENGINEER'S REPRESENTATIVE.

CONTRACTOR SHALL PREPARE ALL SURVEYING, STAKE-OUT, AND ELEVATION DATA FOR ALL "CUT AND FILL" WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS FOR ALL ADJACENT PROPERTIES AND FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AT ALL TIMES AND IN A SAFE MANNER. CONTRACTOR SHALL MAKE PROPER NOTIFICATION AT LEAST 48 HOURS IN ADVANCE OF ANY INTERFERENCE IN ACCESS OR SERVICE TO THE ADJACENT PROPERTY (SUCH AS WELL AS TO THE CITY ENGINEER'S REPRESENTATIVE).

CONTRACTOR SHALL ONLY USE EQUIPMENT PROVIDED WITH A SPARK ARRESTOR DEVICE TO REDUCE A POTENTIAL FIRE HAZARD.

DRIFTED

WATER & DUST CONTROL

CONTRACTOR SHALL PROVIDE A WATER TRENCH ONCE AT ALL TIMES. CONTRACTOR SHALL BE ALLOWED TO DRAW WATER FROM THE CITY OF MORGAN HILL WATER DISTRIBUTION SYSTEM ONLY AFTER OBTAINING A PERMIT FROM THE PUBLIC WORKS DEPARTMENT AND AN INSPECTION FROM THE CITY ENGINEER TO PROTECT EXISTING "GUT-OUT" TULLAGE PIPE. CONTRACTOR SHALL KEEP DRAINAGE FROM CONSTRUCTION ACTIVITY TO THE MAXIMUM EXTENT POSSIBLE. CONTRACTOR SHALL CLEAN ALL EXISTING STREETS, CURBS, DUTTERIES, AND SIDEWALKS AFFECTED BY THE PROJECT AT THE END OF EACH WORKING DAY.

NO MATERIAL SHALL BE STORED NEAR THE EDGE OF PAVEMENT, TRAVELWAY, SIDEWALK, DRIVEWAY, OR SHOULDER LINE WHICH MAY CREATE A HAZARD FOR VEHICULAR AND PEDESTRIAN TRAFFIC.

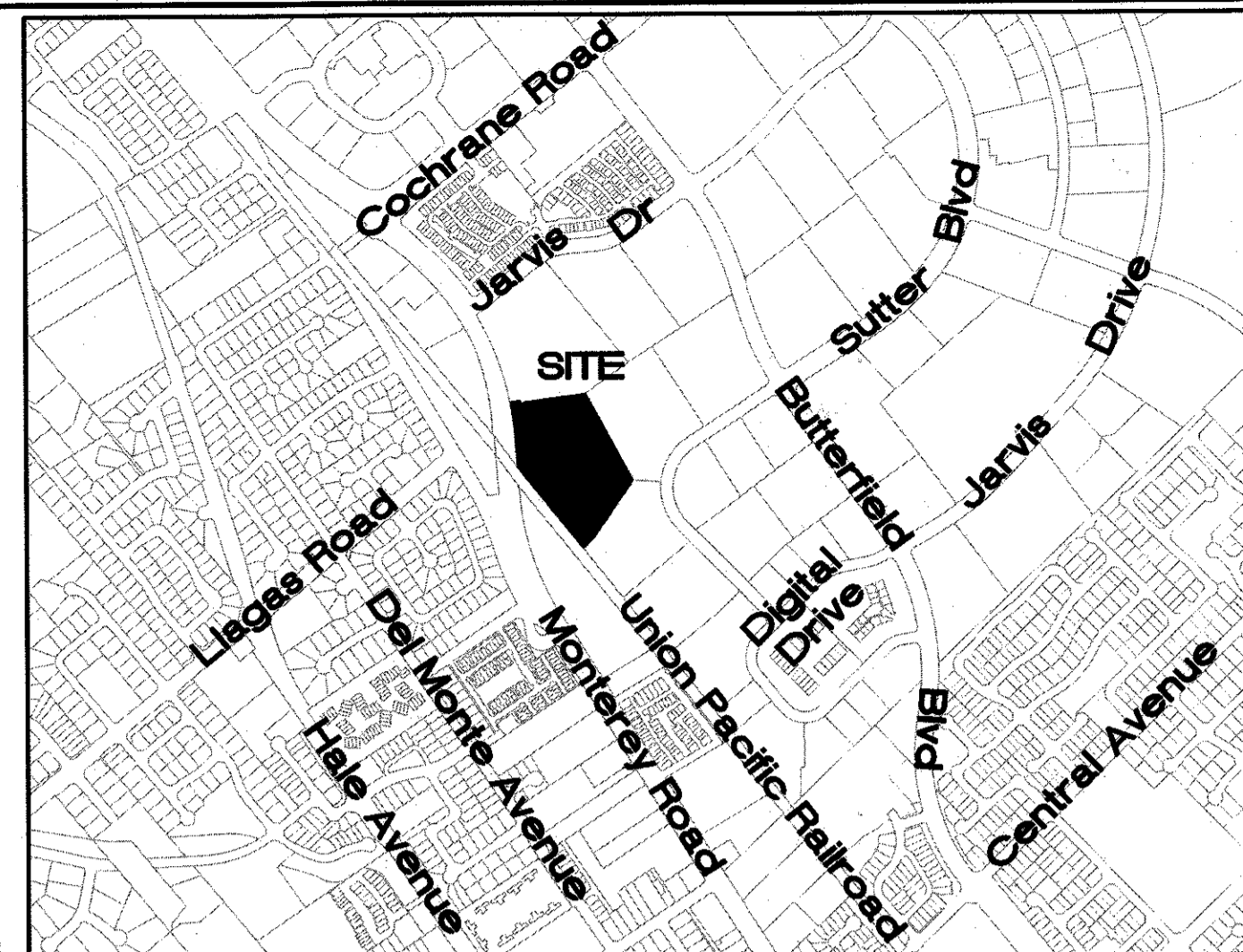
CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL TO THE PUBLIC WORKS DEPARTMENT A MINIMUM OF 5 DAYS PRIOR TO ANY WORK UNDER AN EXISTING PUBLIC STREET. THE PLAN SHALL BE SIGNED BY A LICENSED TRAFFIC ENGINEER WHEN IT INVOLVES AN INTERSECTION STREET. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL, IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MUTCD, 2003 EDITION, AND THE CITY OF MORGAN HILL TRAFFIC CONTROL PLAN. TRAFFIC MAY BE PERMITTED UNDER THE CONTROL OF ONE (ONE) OR TWO (TWO) COMPLETE PLACEMENT DURING CONSTRUCTION OPERATIONS. STREET CLOSURES AND OCCURRALS SHALL ONLY TAKE PLACE UPON CITY ENGINEER APPROVAL AND POLICE DEPARTMENT COORDINATION.

CONTRACTOR SHALL EXERCISE DILIGENCE IN REVIEWING THE APPROVED SURVEY RECORDS AND OTHER AVAILABLE RESOURCES TO FAMILIARIZE HIMSELF WITH THE PROJECT AND TO BE ENLIGHTENED IN THE COURSE OF CONSTRUCTION OF THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND LANDSCAPE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES ENCOUNTERED SHALL BE REMOVED TO PROVIDE A CLEARANCE OF 6 INCHES AROUND THE TREE. THE TRENCH BOTTOM SHALL BE REFILLED TO GRADE WITH SAND, FINE GRAVEL, OR OTHER APPROVED GRANULAR MATERIAL. CLEAN 1/4" OR #8 GRAVEL SHALL BE USED IN AREAS OF MOST CONCENTRATION OR UNDER THE SOIL HAS A HISTORY OF SUBSIDENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES ENCOUNTERED SHALL BE REMOVED TO PROVIDE A CLEARANCE OF 6 INCHES AROUND THE TREE. 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for
Fisher Basin Expansion

in the

City of Morgan Hill



NO SCALE

FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE X.

FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE X.

ZONE X:
0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE - ZONE X

COMMUNITY - CITY OF MORGAN HILL
COMMUNITY PANEL NO. - 06085C443
EFFECTIVE DATE OF MAY 18, 2009

THE BEARINGS ON THESE PLANS ARE BASED ON THE FOUND MONUMENTS ALONG THE CENTERLINE "DIGITAL DRIVE" WITH A BEARING OF NORTH 45° 23' 54" EAST, AS FILED IN THE PARCEL MAP IN BOOK 732 OF MAPS PAGES 16-19 ON SEPTEMBER 27th, 2000, SANTA CLARA COUNTY RECORDS.

SANTA CLARA VALLEY WATER DISTRICT
BENCHMARK ID: BM1067

ELEVATION: NAVD 88 - 353.25 FEET

DESCRIPTION:
USGS BASSMATH DISK "R19"; AT RAILROAD TRACKS FOR UNION PACIFIC RAILROAD (UPRR); 300 SOUTH STREET FROM COCHRAN ROAD ALONG OLD MONTEREY ROAD; QUARTER 4, 2ND AREA; 18516 OLD MONTEREY ROAD. DISK IS ON TOP OF 1.5 FEET WIDE BY 0.5 FEET DEEP CONCRETE HEADWALL ON NORTHWESTERLY SIDE OF TRACKS AND OVERS 2 FEET DIAMETER STEEL PIPE CULVERT; 9.5 FEET SOUTHWESTERLY FROM THE MOST SOUTHWESTERLY RAIL FOR RAILROAD TRACKS; 37.5 FEET NORTHEASTERLY FROM TELEPHONE POLE NO. G109368. CITY OF MORGAN HILL.

1. GROSS AREA: 350,736 S.F. / 8.05 ACRES
2. ASSESSOR'S PARCEL NUMBER: 726-25-028
3. EXISTING LAND USE - VACANT
4. EXISTING ZONING - OPEN SPACE (OS)

SEE SHEET 4

1	COVER SHEET
2	PROJECT NOTES
3	EXISTING TOPOGRAPHIC SURVEY
4	EXCAVATION & GRADING PLAN
5	SECTIONS & DETAILS
6	EROSION CONTROL & ACCESS
7	EROSION CONTROL NOTES & DETAILS

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
AD	AREA DRAIN
AGG	AGGREGATE
B	BEGINNING OF CURVE
BLDG	BUILDING
B/C	BACK OF CURB
B/O	BLOW OFF
BOT	BOTTOM
BOW	BACK OF WALK
BW	BOTTOM OF WALK
BWF	BARWIRE FENCE
TV	CABLE TELEVISION
C	CATCH BASIN
C&G	CURB & GUTTER
CI	CURB INLET
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CONC	CONSTRUCTION
DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
D	DRAIN INLET
DIP	DUCTILE IRON PIPE
DMA	DRAINAGE MANHOLE
DS	DOWNSPOUT
DRWY	DRIVEWAY
E	ELECTRIC LINE
EC	END OF CURVE
EG	EXISTING GRADE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT

EXISTING	PROPOSED	
		CONTOUR ELEVATION
		WATER MAIN
		STORM DRAIN
		SANITARY SEWER
		ELECTROLUER
		FLOW DIRECTION
		DROP INLET
		MANHOLE
		CURB INLET
		WATER METER SERVICE
		FIRE HYDRANT
		WATER VALVE
		SIDEWALK
		VERTICAL CURB
		CURB & GUTTER
		JOINT TRENCH
		RETAINING WALL
		DRAINAGE SWALE
		SEWER LATERAL

CITY OF MORGAN HILL
17575 PEAK AVENUE
MORGAN HILL, CA 95037

A SOILS SAMPLING REPORT WAS PERFORMED BY
ENGO INCORPORATED
REPORT 9158.000.003
DATED JULY 7, 2022 REVISED JULY 28, 2022
A COPY IS AVAILABLE FROM
THE CITY OF MORGAN HILL

HANNA - BRUNETTI
7651 EIGLEBERRY STREET
GILROY, CA 95020

OFFICE: 408 842-2173
EMAIL: ENGINEERING@HANNABRUNETTI.COM

date: 3/3 2023
Hanna - Brunetti
Amanda Joy Musy-Verde
Amanda Joy Musy-Verde
R.C.E. # 69278



PROJECT NOTES

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
- A. STANDARD SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION, OF THE CITY OF MORGAN HILL.
- B. THESE PLANS AND SPECIFICATIONS AS APPROVED FOR CONSTRUCTION BY THE CITY OF MORGAN HILL, ENGINEERING AND UTILITIES DEPARTMENT.
2. CONTRACTOR SHALL SECURE AND COMPLY WITH CITY PERMIT REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE CITY 2 WORKING DAYS PRIOR TO THE INTENTION TO COMMENCE WORK. (PUBLIC WORKS DEPARTMENT PHONE 408-776-7333).
3. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THIS PLAN. CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONTRACTOR SHALL COORDINATE ALL WORK, INCLUDING SUB-CONTRACTORS' WORK, SO AS TO ELIMINATE CONFLICTS AND WORK TOWARDS THE GENERAL GOOD AND COMPLETION OF THE ENTIRE PROJECT.
5. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATION AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, NEITHER THE CITY, NOR THE CONSULTANT CAN ASSUME RESPONSIBILITIES FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS HEREBY NOTIFIED THAT, PRIOR TO COMMENCING CONSTRUCTION, HE IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF THE LOCATIONS OF THEIR UNDERGROUND FACILITIES.
6. THE UTILITY COMPANIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT ONE CALL PROGRAM. THE CONTRACTOR OR ANY SUB-CONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBER OF THE U.S.A. 2 WORKING DAYS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND.
7. THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE GROUND AND UNDERGROUND, EXCEPT AS NOTED IN ITEM 5 ABOVE, AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
8. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ANY CURRENTLY APPLICABLE SAFETY LAW OF ANY JURISDICTIONAL BODY. FOR INFORMATION REGARDING THIS PROVISION, THE CONTRACTOR IS DIRECTED TO CONTACT THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, SAN JOSE, CA. PHONE (408) 452-7288. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, 2010 N. FIRST STREET, SUITE 401, SAN JOSE, CA 95131, PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
10. WHERE THE FIRM OF HANNA & BRUNETTI DOES NOT PROVIDE CONSTRUCTION STAKES, SAID FIRM WILL ASSUME NO RESPONSIBILITY WHATSOEVER FOR IMPROVEMENTS CONSTRUCTED THEREFROM.
11. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL, AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL, OR THE CITY.
12. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL. ALL WARNING AND TRAFFIC CONTROL SIGNS, AND LOCATIONS FOR THE SIGNS SHALL BE IN ACCORDANCE WITH MUTCD REQUIREMENTS AND APPROVED BY THE CITY ENGINEER.
13. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND SHALL NOTIFY HANNA & BRUNETTI OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS BEFORE PROCEEDING WITH ANY FABRICATION.
14. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE CITY ENGINEER AND THE DESIGN ENGINEER IMMEDIATELY. THE DESIGN ENGINEER WILL CLARIFY DISCREPANCIES OR OMISSIONS, IN WRITING, WITHIN A REASONABLE TIME.
15. THE SITE IS AN AREA OF ARCHEOLOGICAL PROBABILITY. IN THE EVENT THAT ARCHEOLOGICAL OR HISTORICAL TRACES ARE ENCOUNTERED DURING GRADING, THE WORK SHALL BE STOPPED. THE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE CONTACTED, AND AN ARCHEOLOGIST SHALL BE RETAINED AT THE CITY'S EXPENSE TO EXAMINE THE FIND AND TO MAKE THE APPROPRIATE RECOMMENDATIONS. (PLNG)

NO UNDERGROUND UTILITY OR STORM DRAIN FACILITIES ARE ANTICIPATED ON THIS PROJECT. IN THE EVENT UNDERGROUND UTILITY OR STORM DRAIN WORK IS REQUIRED, THE WORK SHALL CONFORM TO THE FOLLOWING:

UNDERGROUND NOTES (GENERAL)

1. CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES, INCLUDING STORM DRAINS, SANITARY SEWERS AND WATER LINES, BEFORE ORDERING MATERIALS AND/OR CONSTRUCTING NEW FACILITIES.
2. ALL MANHOLES AND VALVE BOXES TO BE SET FLUSH WITH FINISHED GRADE, UNLESS OTHERWISE NOTED.
3. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. SEE PROJECT NOTES, NOTE 8. (THIS SHEET)
4. PIPE MATERIALS AND INSTALLATION PROCEDURE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
5. SHOULD ANY WATER SYSTEM MAINS OR SERVICES BE DAMAGED BY THE CONTRACTOR, THE WATER SYSTEM SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CITY OF MORGAN HILL. THE CITY OF MORGAN HILL SHALL BE PROMPTLY NOTIFIED AND REPAIRS SHALL BE MADE AS DESIGNATED BY THE CITY OF MORGAN HILL AT THE CONTRACTOR'S EXPENSE.
6. TRENCHES SHALL BE BACKFILLED WITH COMPACTED SAND BACKFILL MATERIAL IN ACCORDANCE WITH CITY STANDARD DETAILS U2, U-3, U-4. A SAMPLE ANALYSIS BY A GEOTECHNICAL ENGINEER OR A CERTIFICATE OF COMPLIANCE FROM THE MATERIAL SUPPLIER SHALL BE SUBMITTED FOUR (4) DAYS BEFORE INTENDED USE, FOR APPROVAL BY THE CITY ENGINEER. BACKFILL WITHIN THE TRENCHES SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BASED UPON THE ASTM TEST DESIGNATIONS D1557, D1556 AND D2992.

STORM DRAIN

1. DRAINAGE PIPE SHALL BE AS SHOWN ON THE PLANS AND PER SD-1.
2. STORM DRAIN MANHOLES SHALL BE CONSTRUCTED TO THE CITY STANDARD SPECIFICATIONS AND STANDARD DETAIL - SD-1.
3. CATCH BASINS SHALL BE CONSTRUCTED TO THE CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS - SD-5 & JD-6.
4. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS IV AND SHALL MEET CALTRANS STANDARD SPECIFICATIONS, SECTION 65-1.06 REQUIREMENTS FOR RUBBER GASKETED JOINTS.

GRADING AND PAVING NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
- A. APPLICABLE SECTIONS OF THE CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.
- B. STANDARD SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION OF THE CITY OF MORGAN HILL.
2. CONTRACTOR SHALL NOTIFY THE CITY 2 WORKING DAYS BEFORE STARTING GRADING WORK.
3. WORK SHALL CONSIST OF ALL EARTHWORK RELATED TO THE PROJECT: ALL CLEARING, GRUBBING, STRIPPING, ROUGH GRADING, DISPOSAL, PREPARATION OF FOUNDATION AND MATERIALS FOR RECEIVING FILLS, EXCAVATION, IMPORT AND/OR EXPORT OF FILL, PROCESSING, PLACEMENT AND COMPACTION OF FILL MATERIALS, PLACEMENT OF RIP RAP, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING AND PAVING TO CONFORM TO THE LINES, GRADES, AND SLOPES, AS SHOWN ON THESE PLANS.
4. SITE CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE AND NOTE ALL CONDITIONS AS TO THE CHARACTER AND EXTENT OF WORK INVOLVED.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS OR CERTIFICATES AS REQUIRED BY THE CITY.
6. ALL EARTHWORK UNDER ACCESS ROAD & SIDE SLOPES SHALL BE CONSTRUCTED PER THE GRADING SPECIFICATIONS OF CALTRANS STANDARDS. ALL SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION, AS REQUIRED BY THE ASTM TEST DESIGNATIONS D1557, D1556, AND D2992, EXCEPT THE PAVEMENT SUB-GRADE. THE UPPER 8" LAYER OF SUBGRADE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION, THE EXACT DEPTH SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND/OR AS SHOWN ON THESE PLANS. SUBEXCAVATION BELOW EXISTING GRADE SHALL BE REQUIRED WITHIN AREAS WHICH ARE TO SUPPORT BUILDINGS FOUNDATIONS, CONCRETE SLABS ON GRADE, PAVEMENTS OR STRUCTURAL FILL.
7. IN THE EVENT UTILITIES ARE FOUND OR NEEDED - BACKFILL FOR UNDERGROUND UTILITIES PLACED ON THE SITE SHALL CONSIST OF CLEAN, IMPORTED SAND MATERIAL (MINIMUM S.E. = 30) TO A MINIMUM OF 12 INCHES OVER THE CONDUIT, UNLESS SHOWN OTHERWISE ON THE PLAN. BACKFILL FOR UNDERGROUND UTILITIES PLACED IN EXISTING PUBLIC STREETS SHALL BE PER CITY STD. DRAWINGS U-3 AND U-4. A SAMPLE SHALL BE SUBMITTED FOUR (4) DAYS BEFORE INTENDED USE, FOR REVIEW BY THE ENGINEER. BACKFILL WITHIN THE UTILITY TRENCHES SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% OR 95% DEPENDING UPON THE LOCATION AND BASED UPON THE ASTM TEST DESIGNATIONS D1557, D1556 AND D2992.
8. AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION, THE CONTRACTOR, WHEN HE OR HIS SUBCONTRACTORS ARE OPERATING EQUIPMENT ON THE SITE, SHALL PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE BY THE DUST FROM HIS OR HER SUBCONTRACTOR'S ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT. THE PRICES FOR THE VARIOUS ITEMS OF WORK SHALL COVER THIS DUST CONTROL.

			Work Accepted: Inspector:		DRAWN	TM	DESIGN	AM	HOR	Supervised by: Amanda Joy Musy-Verdel Registered Civil Engineer RCE no. 69278 <i>Amanda Joy Musy-Verdel</i> 3/3/23 signature date			 HANNA-BRUNETTI EST. 1990 CIVIL ENGINEERS • LAND SURVEYORS CONSTRUCTION MANAGERS 7551 EGGLEBERRY STREET • GILROY • 95020 • CALIFORNIA OFFICE (408) 842-2173 • FAX (408) 842-3662 EMAIL: ENGINEERING@HANNABRUNETTI.COM	PROJECT NOTES FISHER BASIN EXPANSION - apn 726-25-028	City File no.
					CHECKED		DATE		VERT	PRINT DATE	SHEET NUMBER				
NO.	DESCRIPTION	DATE	BY	As-Built Corrections	APPROVED		DATE	3/7/23	AS BUILT	JOB NUMBER 20048					
				By: _____ Date: _____	SCOTT C. CREER R.C.E. # 58879		CITY ENGINEER		CITY OF MORGAN HILL 17575 Peak Avenue, Morgan Hill - California - 95037 (408) 776-6480 - fax (408) 779-7236						

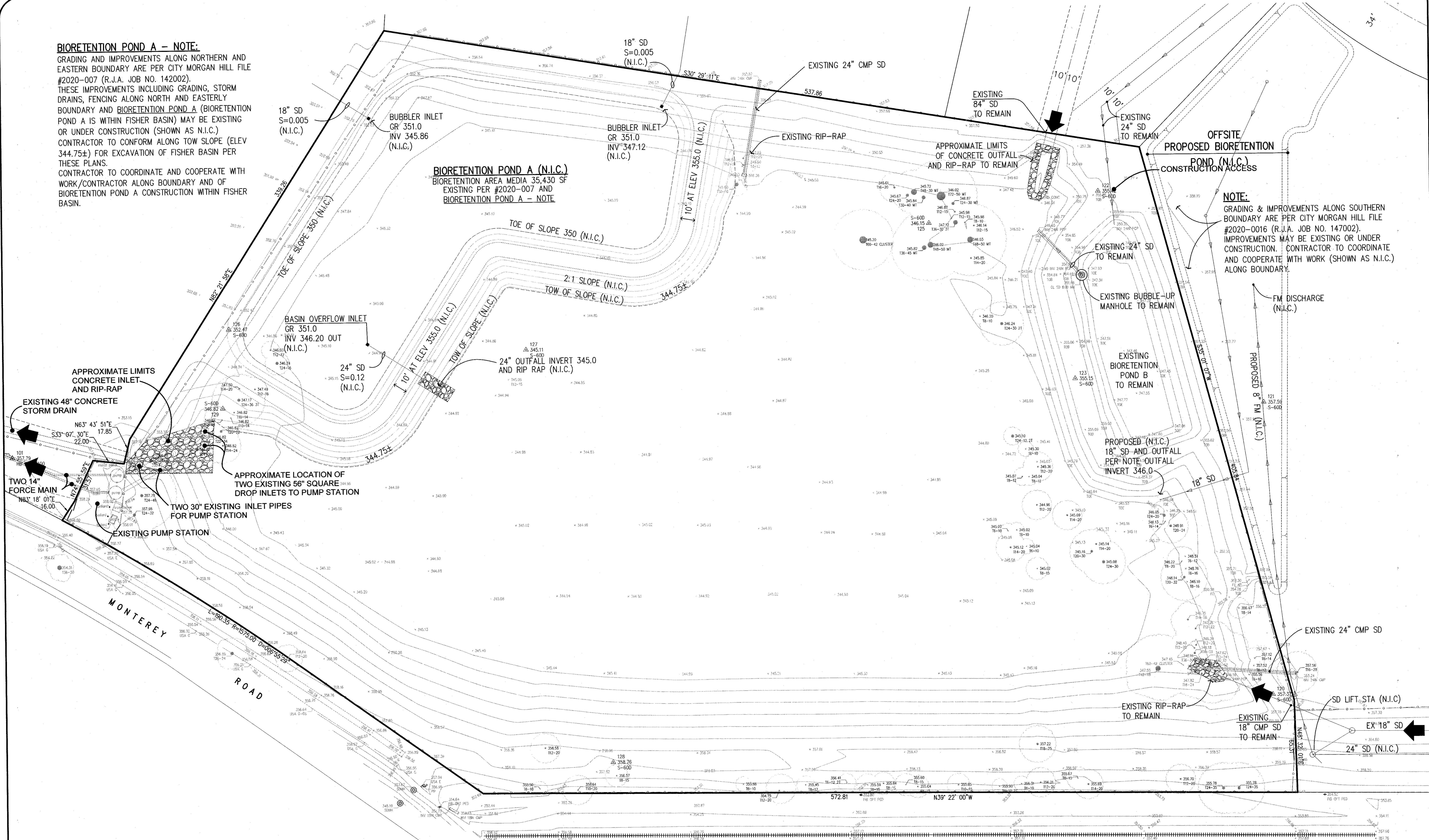
BIORETENTION POND A - NOTE:

GRADING AND IMPROVEMENTS ALONG NORTHERN AND EASTERN BOUNDARY ARE PER CITY MORGAN HILL FILE #2020-007 (R.J.A. JOB NO. 142002). THESE IMPROVEMENTS INCLUDING GRADING, STORM DRAINS, FENCING ALONG NORTH AND EASTERLY BOUNDARY AND BIORETENTION POND A (BIORETENTION POND A IS WITHIN FISHER BASIN) MAY BE EXISTING OR UNDER CONSTRUCTION (SHOWN AS N.I.C.) CONTRACTOR TO CONFORM ALONG TOW SLOPE (ELEV 344.75±) FOR EXCAVATION OF FISHER BASIN PER THESE PLANS. CONTRACTOR TO COORDINATE AND COOPERATE WITH WORK/CONTRACTOR ALONG BOUNDARY AND OF BIORETENTION POND A CONSTRUCTION WITHIN FISHER BASIN.

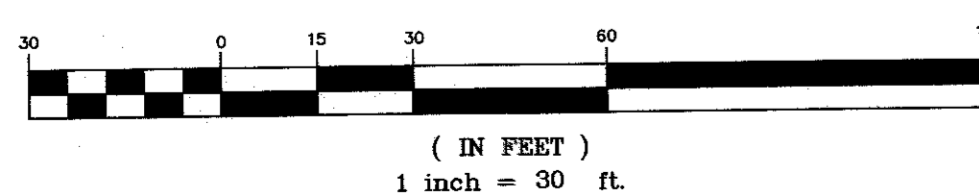
BIORETENTION POND A (N.I.C.)
BIORETENTION AREA MEDIA 35,430 SF
EXISTING PER #2020-007 AND
BIORETENTION POND A - NOTE

NOTE:

GRADING & IMPROVEMENTS ALONG SOUTHERN BOUNDARY ARE PER CITY MORGAN HILL FILE #2020-0016 (R.J.A. JOB NO. 147002). IMPROVEMENTS MAY BE EXISTING OR UNDER CONSTRUCTION. CONTRACTOR TO COORDINATE AND COOPERATE WITH WORK (SHOWN AS N.I.C.) ALONG BOUNDARY.



GRAPHIC SCALE



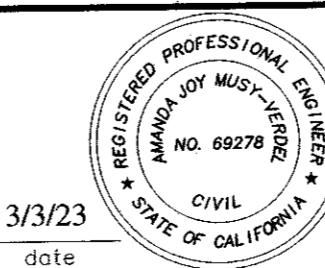
SOUTHERN PACIFIC TRANSPORTATION COMPANY

				Work Accepted:	Inspector:	DRAWN	DESIGN	HOR
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						APPROVED	DATE	AS BUILT
NO. DESCRIPTION DATE BY				As-Built Corrections		3/7/23		AS BUILT
p:\proj\ Revisions				By: _____ Date: _____		SCOTT C. GREER - CITY ENGINEER R.G.E. # 58870		JOB NUMBER 20048



City of Morgan Hill
Public Works Department
17575 Peak Avenue, Morgan Hill - California - 95037
(408) 776-6480 • fax (408) 779-7238

Supervised by:
Amanda Joy Musy-Verdel
Registered Civil Engineer
RCE no. 69278



HANNA-BRUNETTI
CIVIL ENGINEERS - LAND SURVEYORS
CONSTRUCTION MANAGERS
7651 EIGLEBERRY STREET • GILROY • 95020 • CALIFORNIA
OFFICE (408) 842-2173 • FAX (408) 842-3662
EMAIL: ENGINEERING@HANNABRUNETTI.COM

Existing Topographic Survey
Fisher Basin Expansion -apn 726-25-028

City File no.
PRINT DATE
SHEET NUMBER
3 OF 7

HB JOB NO. 20048

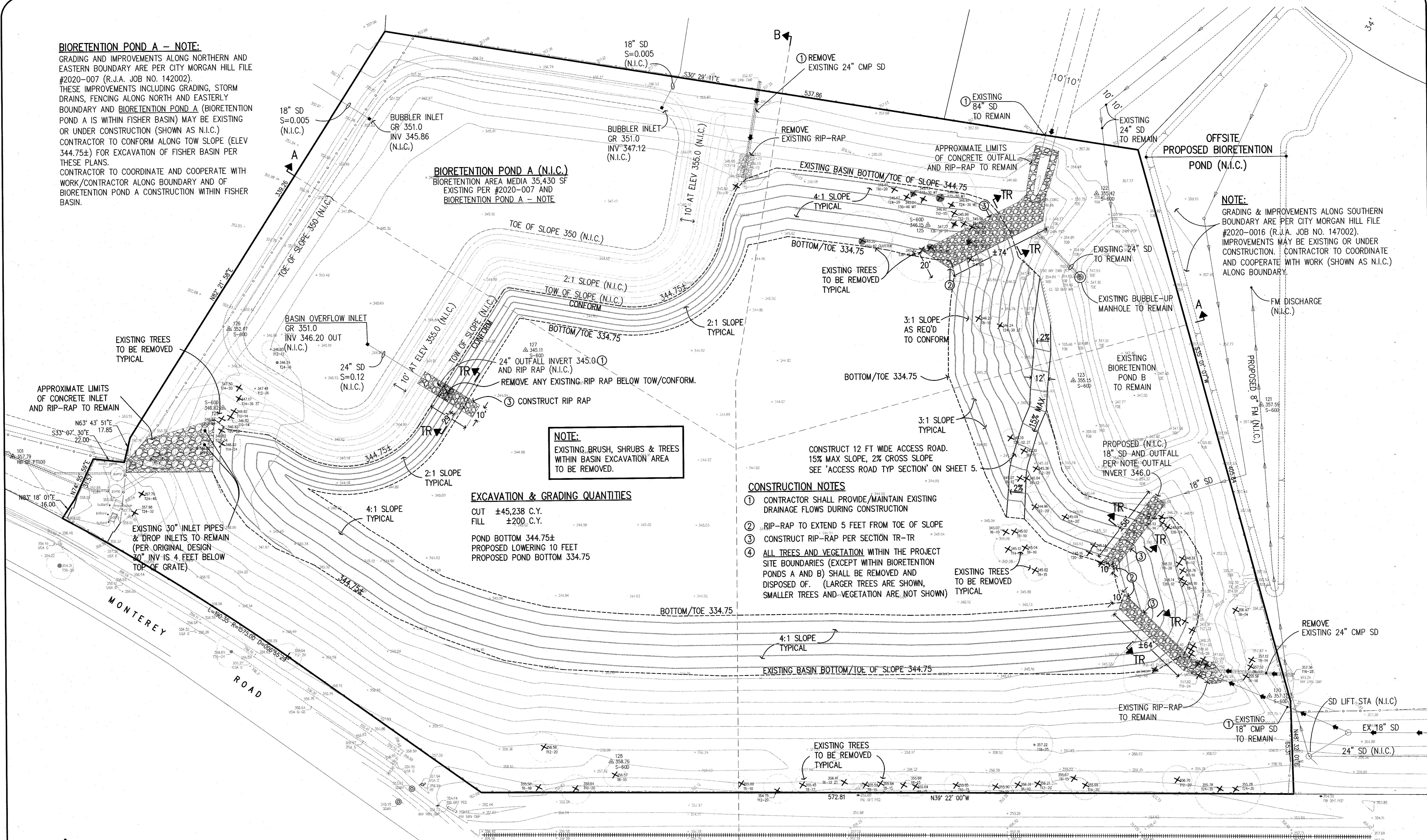
BIORETENTION POND A - NOTE:

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BIORETENTION POND A (N.I.C.)
BIORETENTION AREA MEDIA 35,430 SF
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BIORETENTION POND A - NOTE

NOTE:

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NO.	DESCRIPTION	DATE	BY

Work Accepted:	Inspector:
As-Built Corrections	
By:	Date:

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				JOB NUMBER

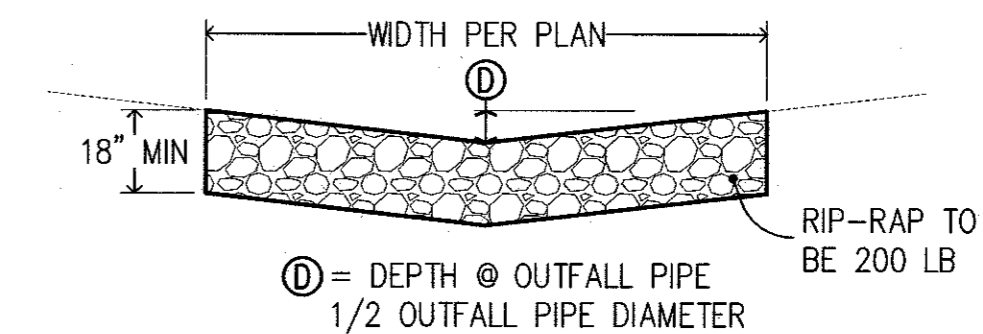
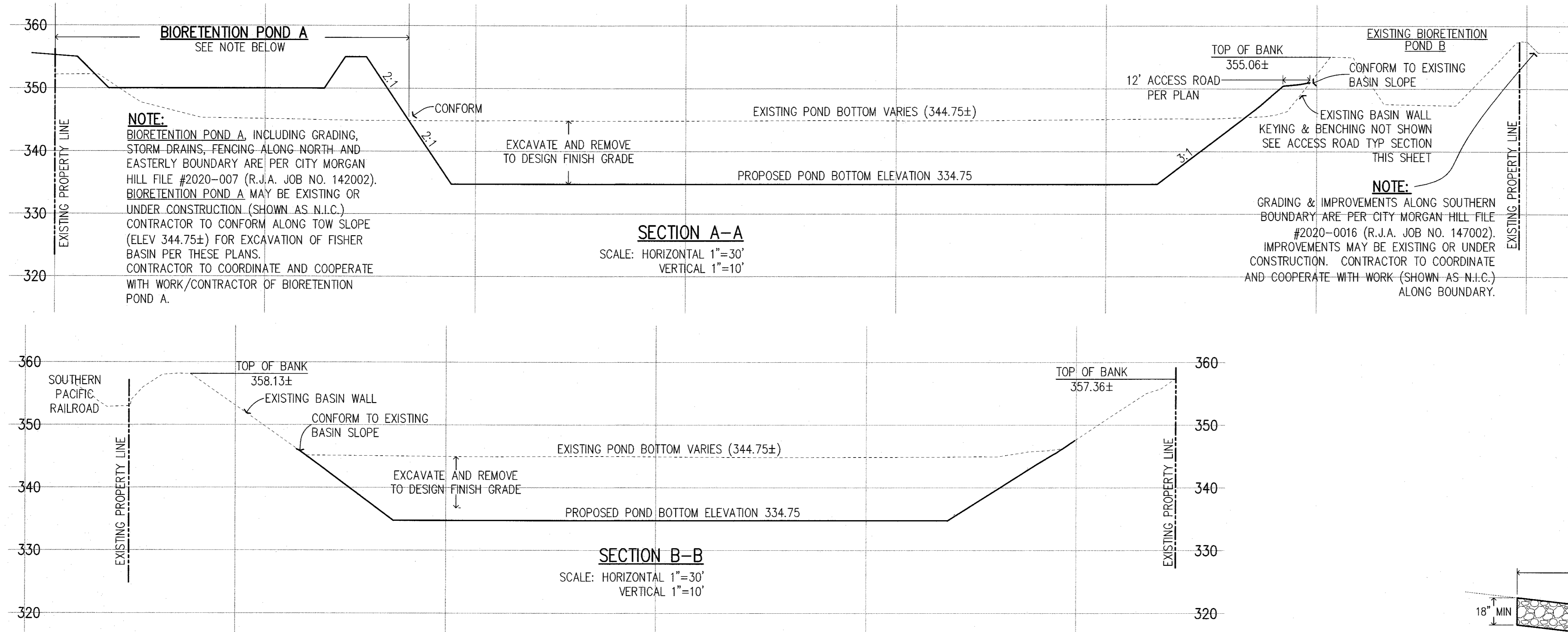
CITY OF MORGAN HILL	17575 Peak Avenue, Morgan Hill - California - 95037
(408) 776-6480 - fax (408) 779-7236	

City of Morgan Hill	Public Works Department
Supervised by:	Amanda Joy Musy-Verdel
Registered Civil Engineer	RCE no. 69278
signature	3/3/23

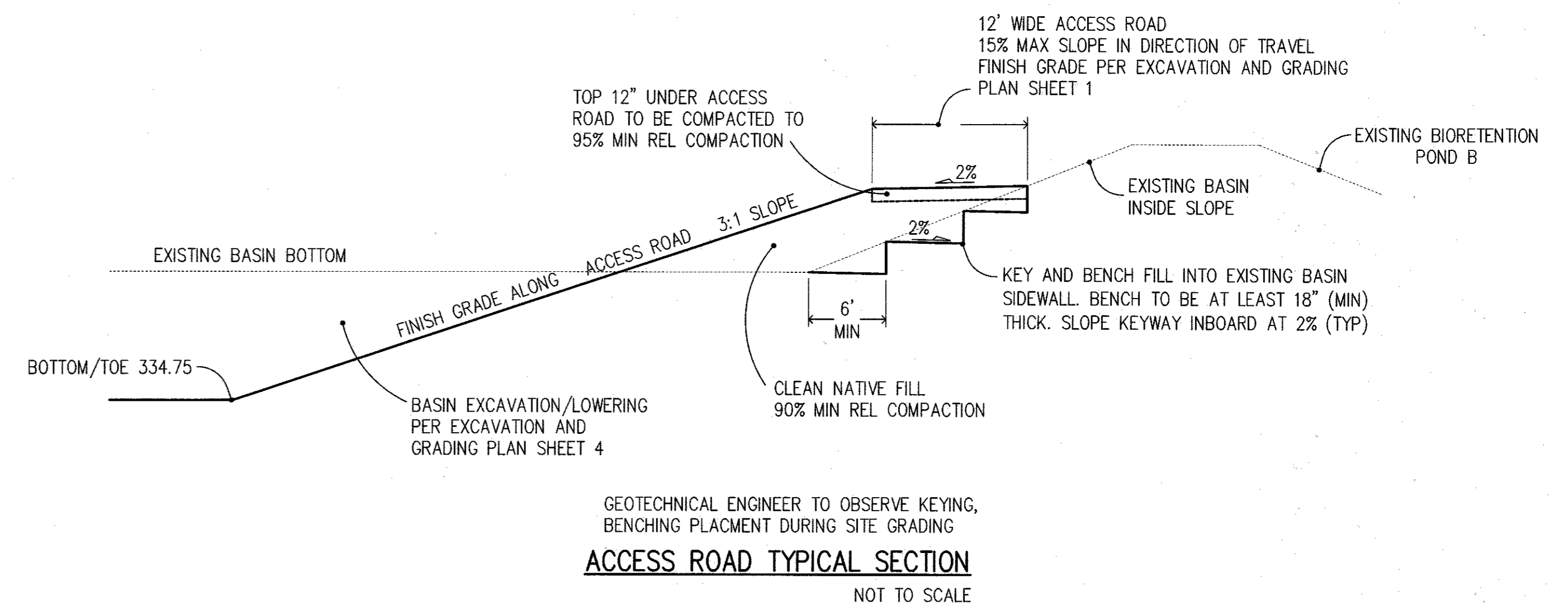
HANNA-BRUNETTI	EST. 1910
CIVIL ENGINEERS - LAND SURVEYORS	CONSTRUCTION MANAGERS
7651 EIGLEBERRY STREET - GILROY - 95020 - CALIFORNIA	OFFICE (408) 842-2173 - FAX (408) 842-3862
EMAIL: ENGINEERING@HANNABRUNETTI.COM	

Excavation & Grading Plan	Fisher Basin Expansion - apr 726-25-028
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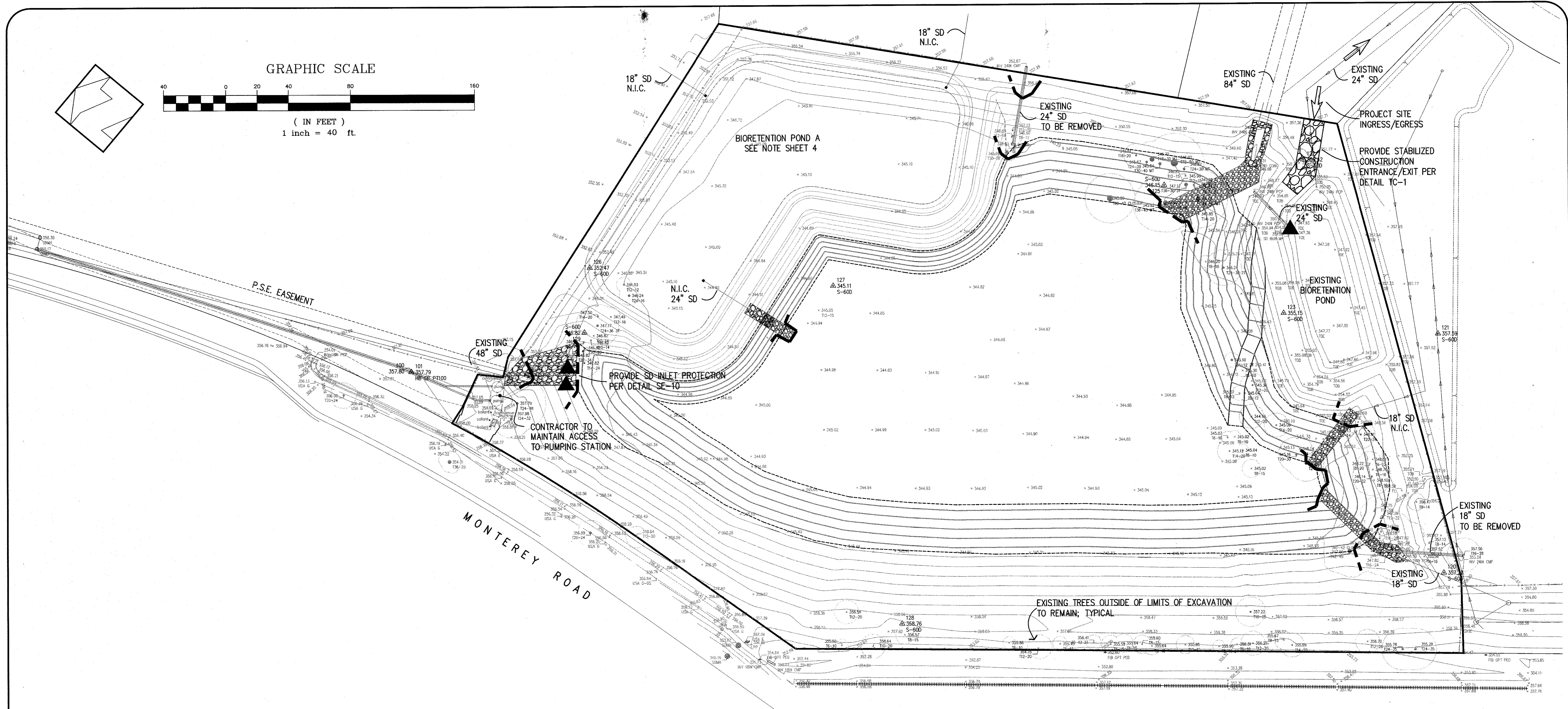
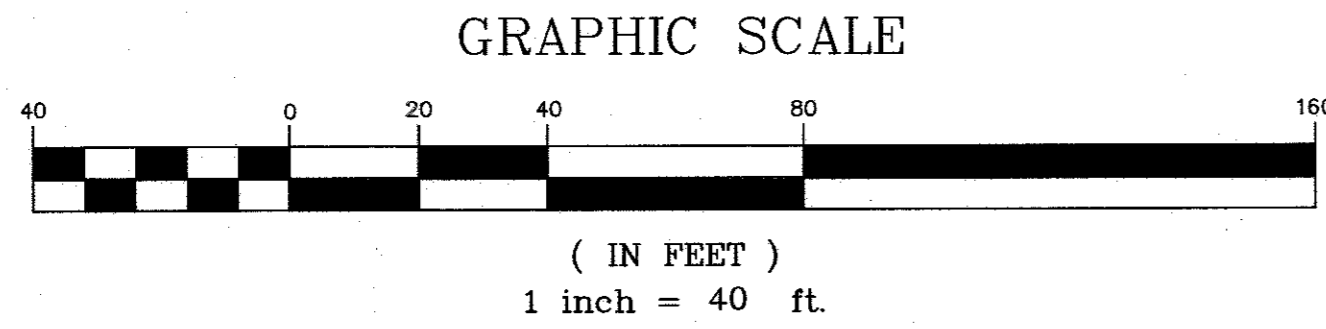
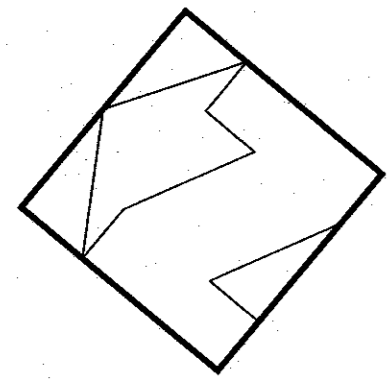
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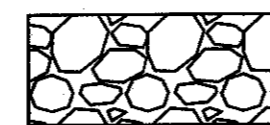
ALL EARTHWORK TO BE PER CITY MORGAN HILL STANDARDS, SPECIFICATIONS AND CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 19



NO. DESCRIPTION DATE BY Revisions				Work Accepted: Inspector: As-Built Corrections By: Date:	DRAWN AM DESIGN TM HOR CHECKED DATE APPROVED DATE 3/7/23 SCOTT C. CREER - CITY ENGINEER P.C.E. # 58878	City of Morgan Hill Public Works Department 17575 Peak Avenue, Morgan Hill - California - 95037 (408) 776-6480 - fax (408) 779-7236	Supervised by: Amanda Jay Musy-Verdel Registered Civil Engineer RCE no. 69278 signature date 3/3/23		HANNA-BRUNETTI CIVIL ENGINEERS • LAND SURVEYORS CONSTRUCTION MANAGERS 7851 EGLISBERY STREET • GILROY • 95020 • CALIFORNIA OFFICE (408) 842-2173 • FAX (408) 842-3662 EMAIL: ENGINEERING@HANNABRUNETTI.COM	Sections & Details Fisher Basin Expansion - apn 726-25-028 5 OF 7	City File no. PRINT DATE SHEET NUMBER
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LEGEND



PROVIDE CONSTRUCTION ENTRANCE/EXIT PER DETAIL TC-1




FIBER ROLL BARRIER PER DETAIL SE-5
AROUND PERIMETER OF PROJECT AREA



STORM DRAIN INLET PROTECTION PER DETAIL SE-10



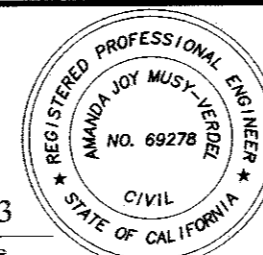
PROVIDE SLOPE SAND BAG INLET PROTECTION
PER DETAIL SE-10

				Work Accepted:	Inspector:	DRAWN	AM	DESIGN	TM	HOR
						CHECKED		DATE		VERT
				As-Built Corrections		APPROVED		DATE	3/17/23	AS BUILT
						SCOTT C. GREER - CITY ENGINEER P.E. # 68619				JOB NUMBER
NO.	DESCRIPTION			DATE	BY	Revisions				



City of Morgan Hill
Public Works Department
17575 Peak Avenue, Morgan Hill - California - 95037
(408) 776-6480 - fax (408) 779-7236

Supervised by:
Amanda Joy Musy-Verdel
Registered Civil Engineer
RCE no. 69276
signature: *Amanda Joy Musy-Verdel* date: 3/3/23

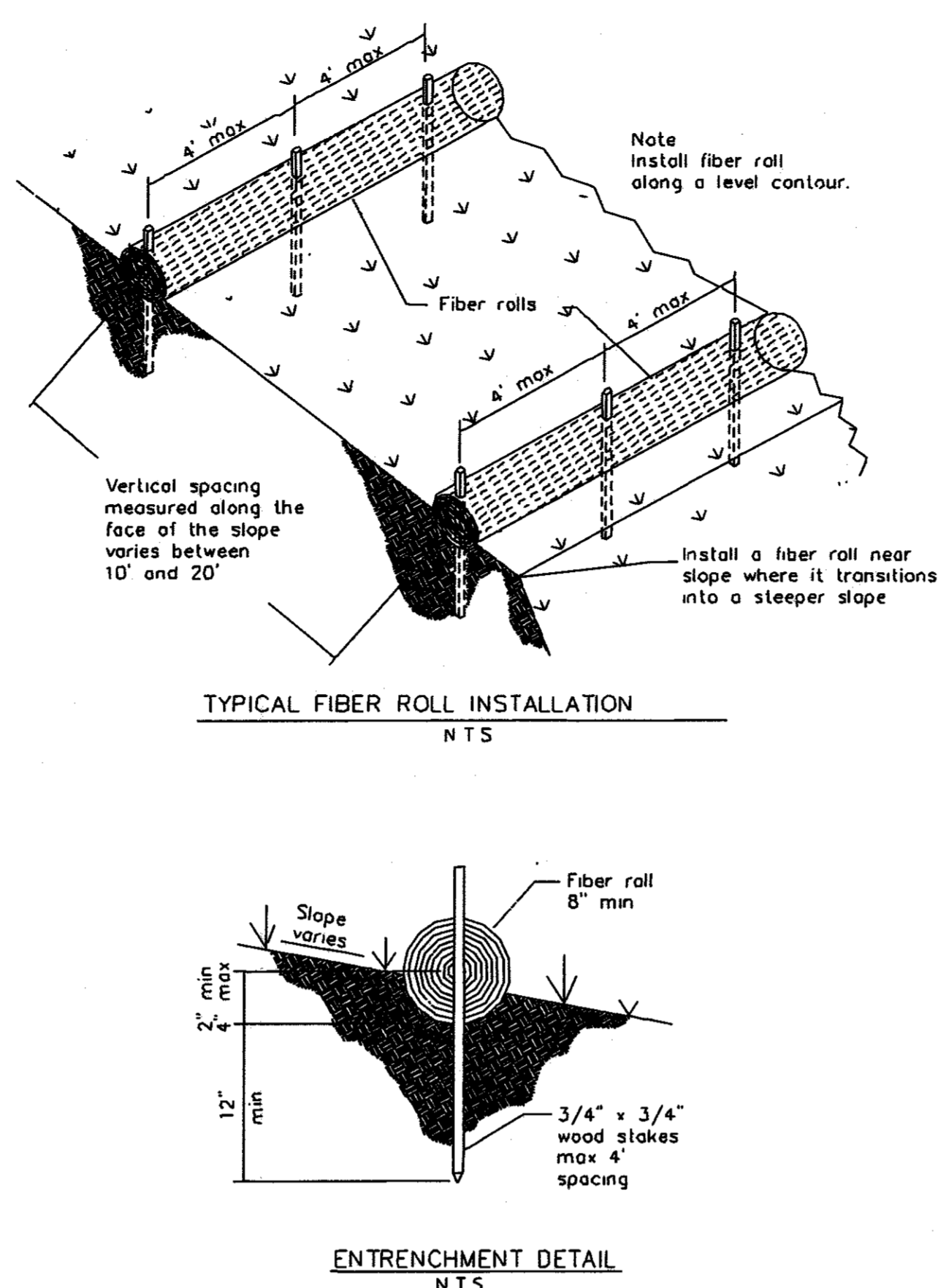
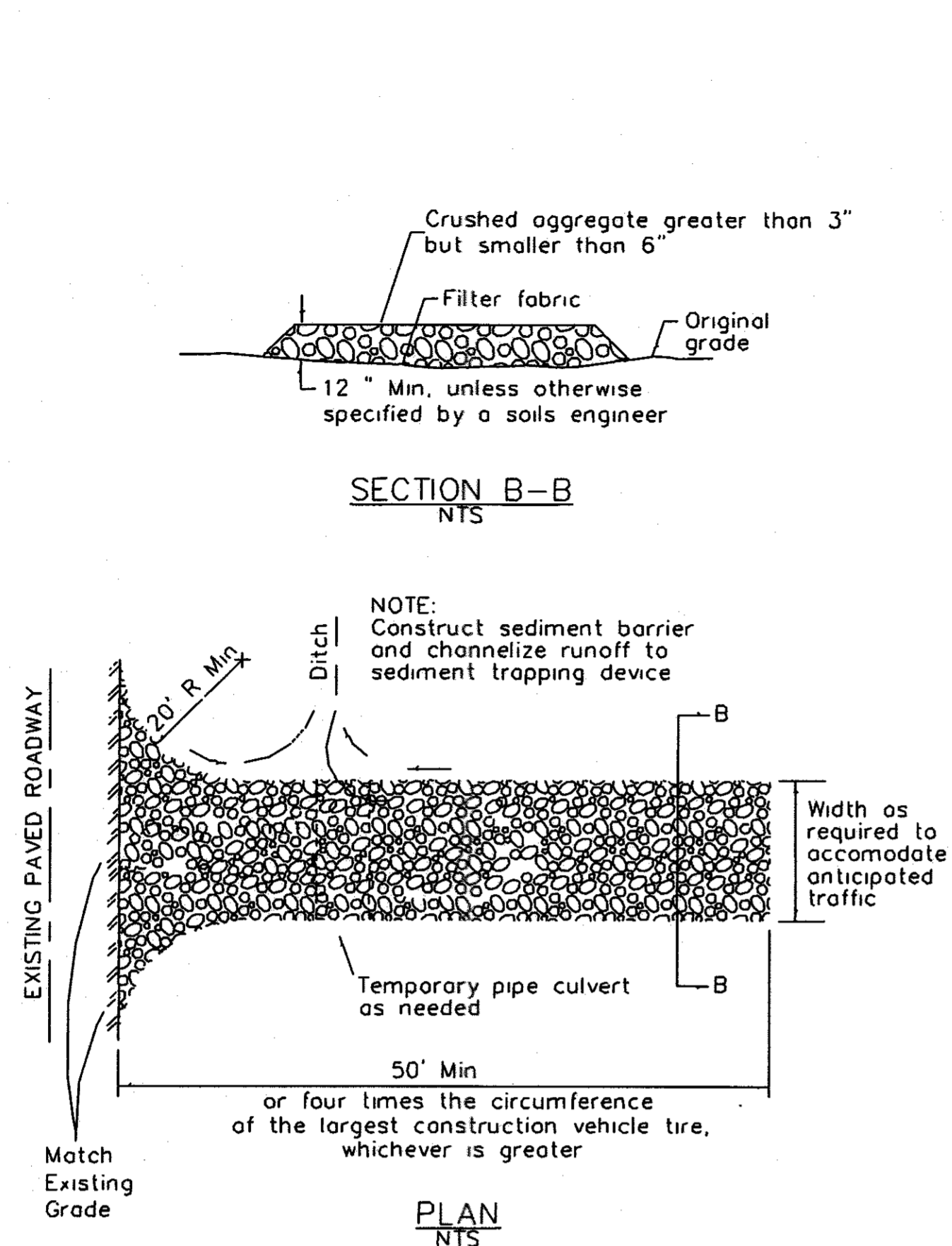


HANNA-BRUNETTI
EST. 1989
CIVIL ENGINEERS - LAND SURVEYORS
CONSTRUCTION MANAGERS
7851 EUGLEBERRY STREET - OILROY - 95020 - CALIFORNIA
OFFICE (408) 842-2173 - FAX (408) 842-3662
EMAIL: ENGINEERING@HANNABRUNETTI.COM

Erosion and Project Access Plan
Fisher Basin Expansion - aprn 726-25-028

City File no.
PRINT DATE
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6 OF 7

HB JOB NO. 20048



EROSION CONTROL NOTES

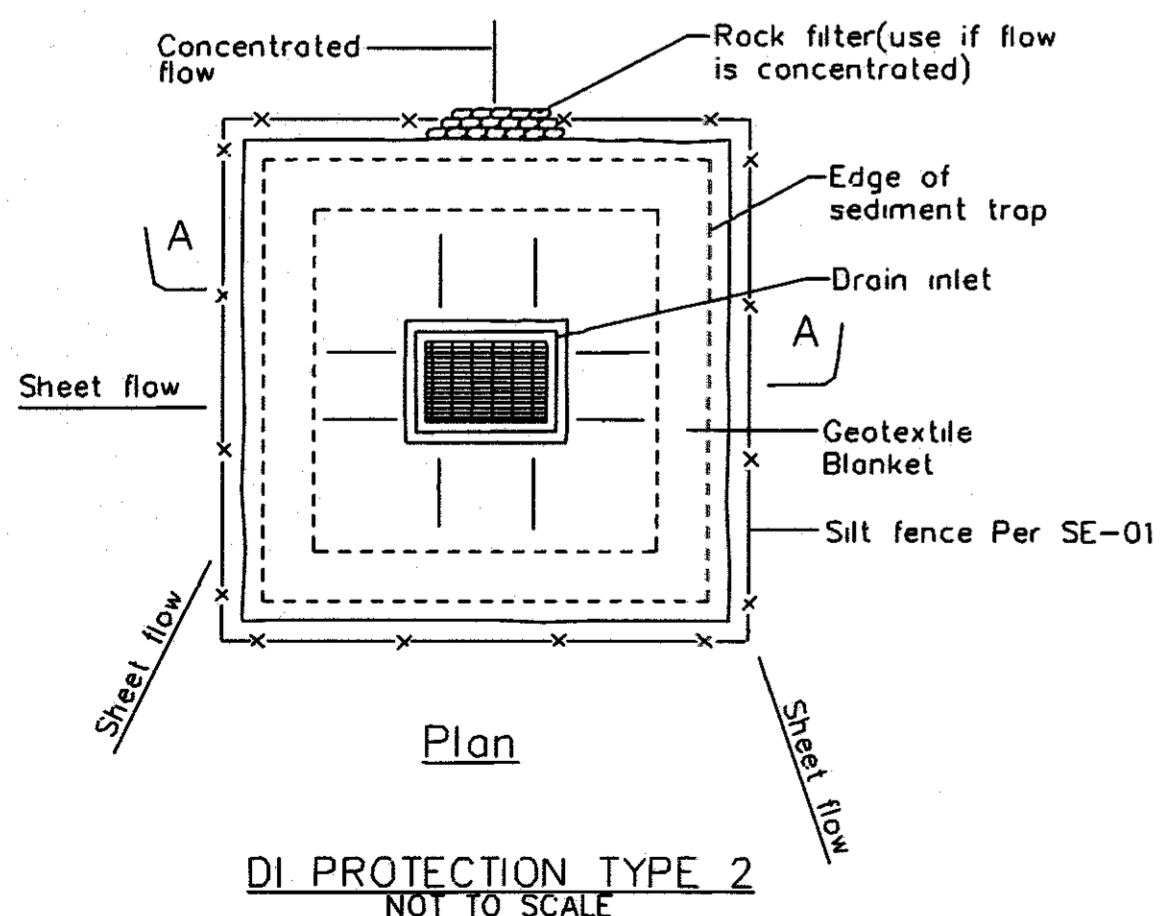
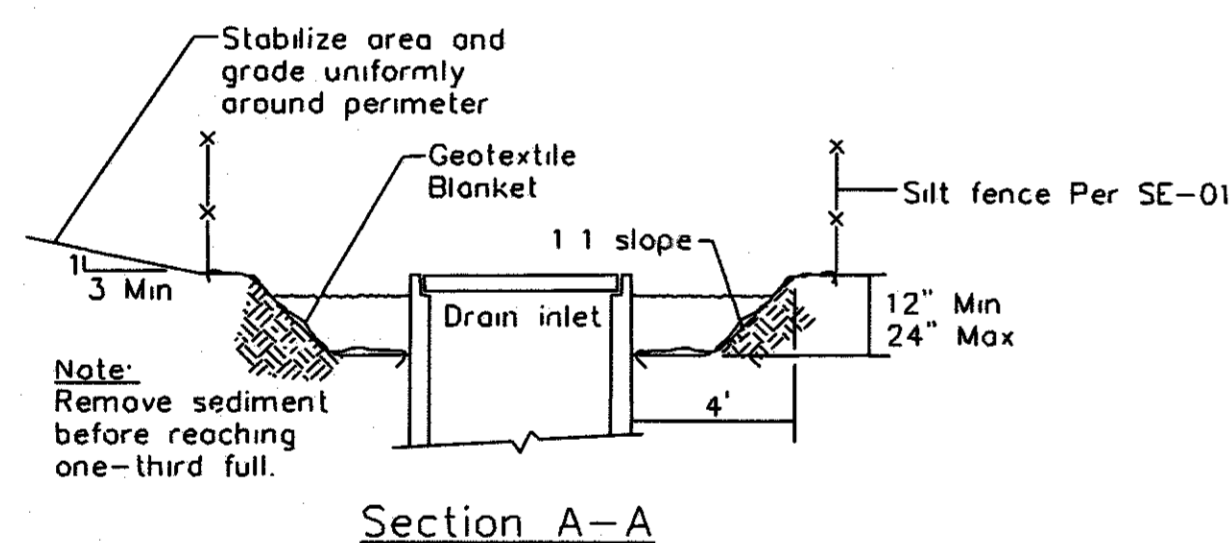
- EROSION CONTROL MEASURES SHALL BE EFFECTIVE FOR CONSTRUCTION DURING THE RAINY SEASON; SEPTEMBER 15 THROUGH MAY 15.
- NO STORM WATER RUNOFF SHALL BE ALLOWED TO DRAIN INTO THE EXISTING AND/OR PROPOSED UNDERGROUND STORM SYSTEM UNTIL SUITABLE EROSION CONTROL MEASURES ARE FULLY IMPLEMENTED. NO STORM WATER RUNOFF SHALL BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM THAT IS NOT CLEAR, AND FREE OF SILTS.
- A FIBER ROLL BARRIER PER "DETAIL SE-5" SHALL BE INSTALL ALONG THE PERIMETER OF THE PROJECT SITE. THE LOCATION OF THE FIBER ROLL ALONG THE PERIMETER SHALL BE ADJUSTED TO ELIMINATE SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE. A FIBER ROLL SHALL ALSO BE REQUIRED AROUND THE PERIMETER OF ANY STOCKPILE OR OTHER SITE OF BARE, LOOSE EARTH.
- ALL STORM DRAIN MANHOLES, CATCH BASINS, AND/OR DROP INLETS THAT ARE TO ACCEPT STORM WATER SHALL HAVE INLET PROTECTION MEASURES PER DETAIL SE-10. STORM WATER RUNOFF SHALL BE DIRECTED TO THESE INLETS ONLY. STORM DRAIN CATCH BASINS THAT ARE NOT COMPLETE, SHALL BE BLOCKED OFF COMPLETELY.
- THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR THE IMPLEMENTATION OF THE EROSION CONTROL PLAN SHALL BE PROVIDED TO THE CITY.
- PRIOR TO GRADING, AN ENTRANCE SHALL BE CONSTRUCTED, CONSISTING OF A MINIMUM OF 50 LF OF DRAIN ROCK, 3" IN DIAMETER, PLACED OVER MIRAFI 500X (OR EQUAL) PER DETAIL TC-1. THE ENTRANCE SHALL CONFORM TO "CONSTRUCTION ENTRANCE DETAIL TC-1". THERE SHALL BE ONLY ONE ENTRANCE/EXIT POINT TO THE SITE DURING THE RAINY SEASON. THE LOCATION SHALL BE AS SHOWN ON THESE PLANS, OR AT A LOCATION APPROVED BY THE CITY.
- ALL AREAS OF BARE, TURNED OR DISTURBED EARTH SHALL BE STABILIZED BY USE OF HYDROSEED PER THE TABLE BELOW. ALL STOCKPILES, AND/OR BORROW AREAS SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES SUCH AS A PERIMETER SILT FENCE, AND OTHER METHODS TO PREVENT ANY EROSION OR SILTS MIGRATION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE COUNTY INSPECTOR. THE STORM DRAIN SYSTEM SHALL MAINTAIN A FORM OF DRAIN INLET PROTECTION UNTIL COUNTY ACCEPTS THE FINAL STREET IMPROVEMENTS. THE DRAIN INLET PROTECTION SHALL BE MAINTAINED, EFFECTIVE AND SUBJECT TO COUNTY INSPECTOR'S APPROVAL.
- ALL PAVED STREET, AND AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO ELIMINATE SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH DAY DURING THE RAINY SEASON. ANY DAMAGED STRUCTURAL MEASURES ARE TO BE REPAIRED BY END OF THE DAY. TRAPPED SEDIMENT IN "SD INLETS" (AND OTHER EROSION CONTROL MEASURES) SHALL BE REMOVED TO MAINTAIN TRAP EFFICIENCY. REMOVED SEDIMENT SHALL BE DISPOSED BY SPREADING ON SITE, WHERE IT WILL NOT MIGRATE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT THE FORMATION OF AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM A FAILURE TO DO SO.
- ALL DRAIN SWALES SHALL BE PER DETAIL EC-9.
- INCOMPLETE GRADING SHALL NOT BE ALLOWED. CONTRATOR SHALL MAINTAIN A DRAIN PATH AS SHOWN ON THIS PLAN. SAID DRAIN PATH SHALL BE MAINTAINED LINED DRAIN SWALES, AND INLET PROTECTION AT A MINIMUM. IF PONDING DOES OCCUR ON THE SITE AFTER GRADING, THE WATER MUST BE FREE AND CLEAR OF SEDIMENT PRIOR TO DISCHARGE TO THE STORM DRAIN SYSTEM. THIS REQUIREMENT MAY NECESSITATE THE USE OF NATURAL AND/OR MECHANICAL DESILTING METHODS, SUBJECT TO APPROVAL BY THE COUNTY INSPECTOR.
- IF THESE EROSION CONTROL MEASURE PROVE INADEQUATE, STRAW MULCH, TACKIFIER, AND ADDITIONAL HYDROSEEDING MAY BE REQUIRED.

HYDROSEED TABLE

ITEM	LBS/ACRE
COMMON BARLEY	45
ANNUAL RYEGRASS	45
CRIMSON CLOVER	10
FERTILIZER 7-2-3	400
FIBER MULCH	2000
TACKIFIER	100

- ALL GRADING WORK BETWEEN SEPTEMBER 15th AND MAY 15th IS AT THE DISCRETION OF THE CITY INSPECTOR.
- PROVIDE SHRUBS AND/OR TREES REQUIRED ON SLOPES GREATER THAN 15 FEET IN VERTICAL HEIGHT.
- THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL INSTALL AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL WITHIN THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY AND ANY PORTION OF THE SITE WHERE STORM WATER RUN-OFF IS DIRECTLY FLOWING INTO THE SANTA CLARA COUNTY MAINTAINED ROAD RIGHT OF WAY BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, WASTE MATERIALS, AND SEDIMENT CAUSED BY EROSION FROM CONSTRUCTION ACTIVITIES ENTERING THE STORM DRAIN SYSTEM, WATERWAYS, AND ROADWAY INFRASTRUCTURE. BMP'S SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING PRACTICES APPLICABLE TO THE PUBLIC ROAD AND EXPRESSWAY FACILITIES:
 - REDUCTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN/STAGING AREAS.
 - PREVENTION OF TRACKING OF MUD, DIRT AND CONSTRUCTION MATERIALS ONTO PUBLIC ROAD RIGHT OF WAY.
 - PREVENTION OF DISCHARGE OF WATER RUNOFF DURING DRY AND WET WEATHER CONDITIONS ONTO PUBLIC ROAD RIGHT OF WAY
- THE OWNER/OWNER'S CONTRACTOR, AGENT, AND/OR ENGINEER SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE CITY RIGHT OF WAY AND ANY PORTION OF THE SITE WHERE STORM WATER RUN-OFF IS DIRECTLY FLOWING INTO THE CITY RIGHT OF WAY SHALL HAVE SEASONALLY APPROPRIATE BMP'S INSTALLED AND MAINTAINED AT ALL TIMES.

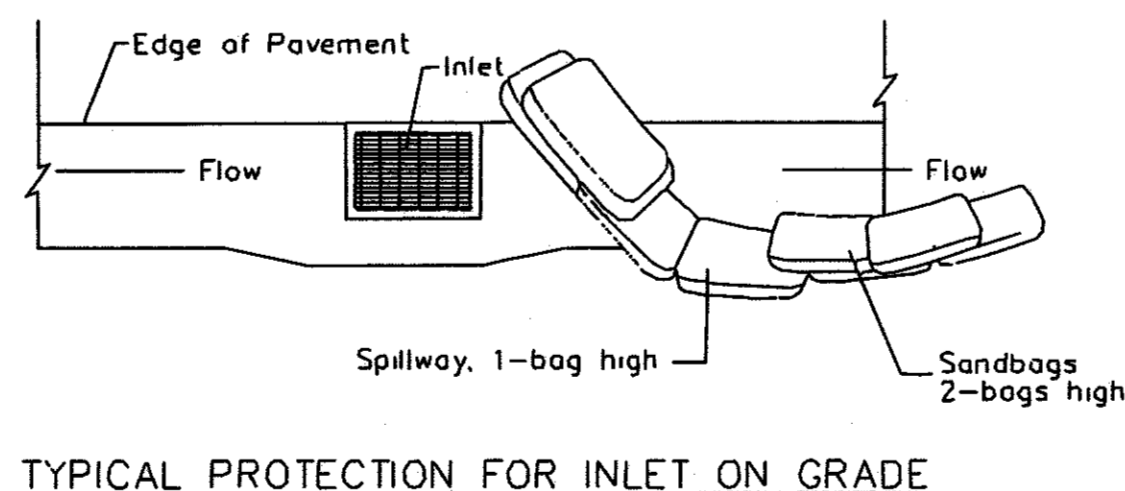
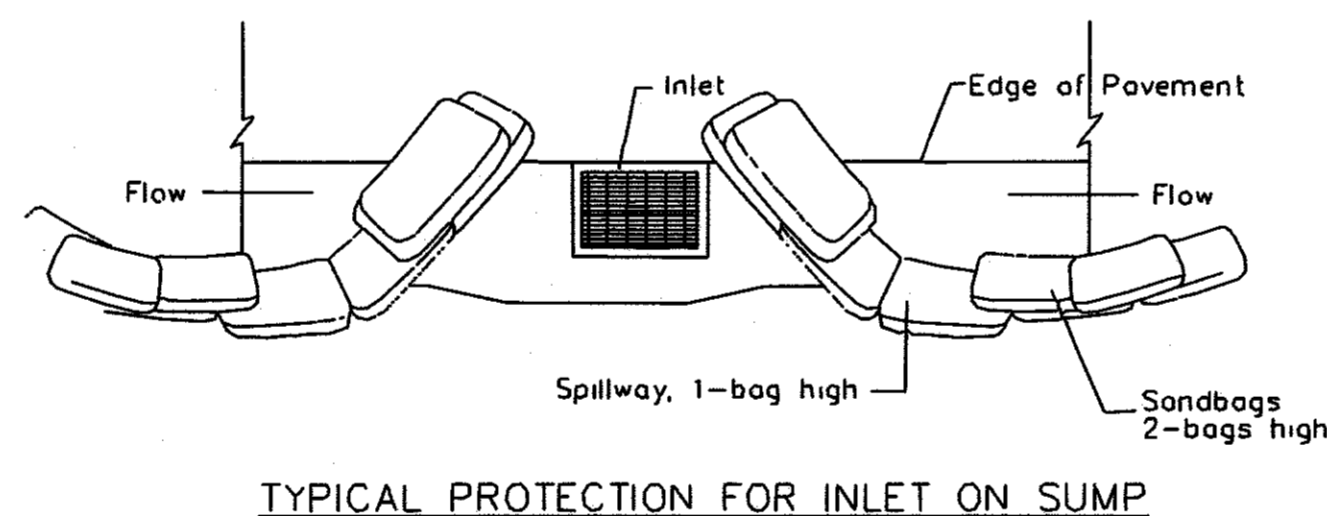
Storm Drain Inlet Protection SE-10



Notes

- For use in cleared and grubbed and in graded areas
- Shape basin so that longest inflow area faces longest length of trap.
- For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

SE-10 Storm Drain Inlet Protection



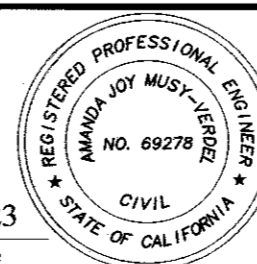
NOTES:

- Intended for short-term use
- Use to inhibit non-storm water flow
- Allow for proper maintenance and cleanup
- Bags must be removed after adjacent operation is completed
- Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3
NOT TO SCALE

NO.	DESCRIPTION	DATE	BY
Revisions			
Work Accepted:		Inspector:	
DRAWN		DESIGN	HOR
CHECKED	AM	DATE	TM
APPROVED		DATE	AS BUILT
SCOTT C. GREER		3/17/23	
R.C.E. # 58875			
By: _____ Date: _____		JOB NUMBER	
CITY OF MORGAN HILL		17575 Peak Avenue, Morgan Hill - California - 95037 (408) 776-6480 - fax (408) 779-7236	

Supervised by:
Amanda Joy Musy-Verdel
Registered Civil Engineer
RCE no. 69278
signature _____ date 3/3/23



HANNA-BRUNETTI
CIVIL ENGINEERS - LAND SURVEYORS
CONSTRUCTION MANAGERS
7651 EGGLEBERRY STREET - GILROY - 95020 - CALIFORNIA
OFFICE (408) 842-2173 / FAX (408) 842-3662
EMAIL: ENGINEERING@HANNABRUNETTI.COM

Erosion Control Notes & Details

Fisher Basin Expansion - apn 726-25-028

City File no.
PRINT DATE
SHEET NUMBER
7 OF 7