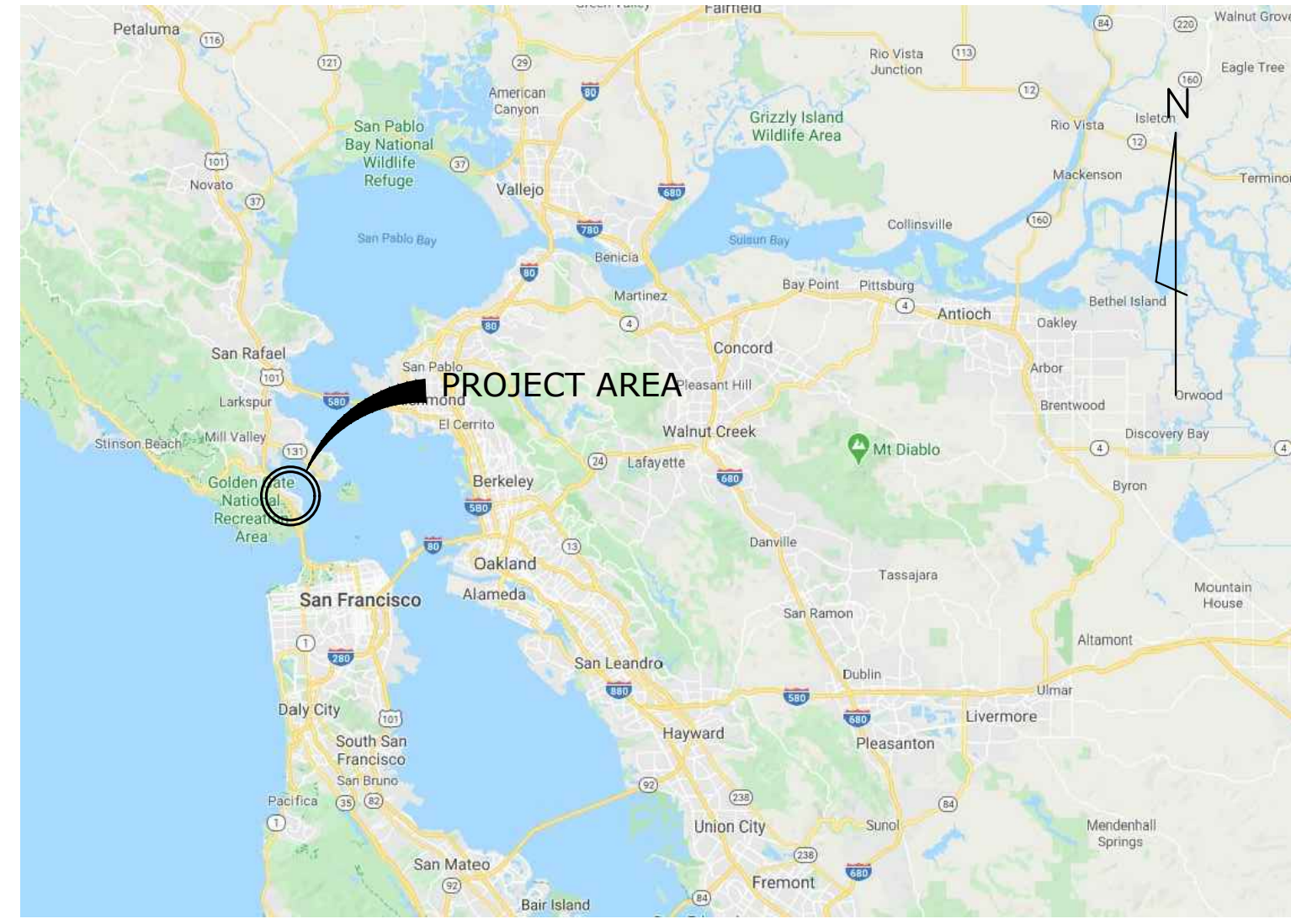
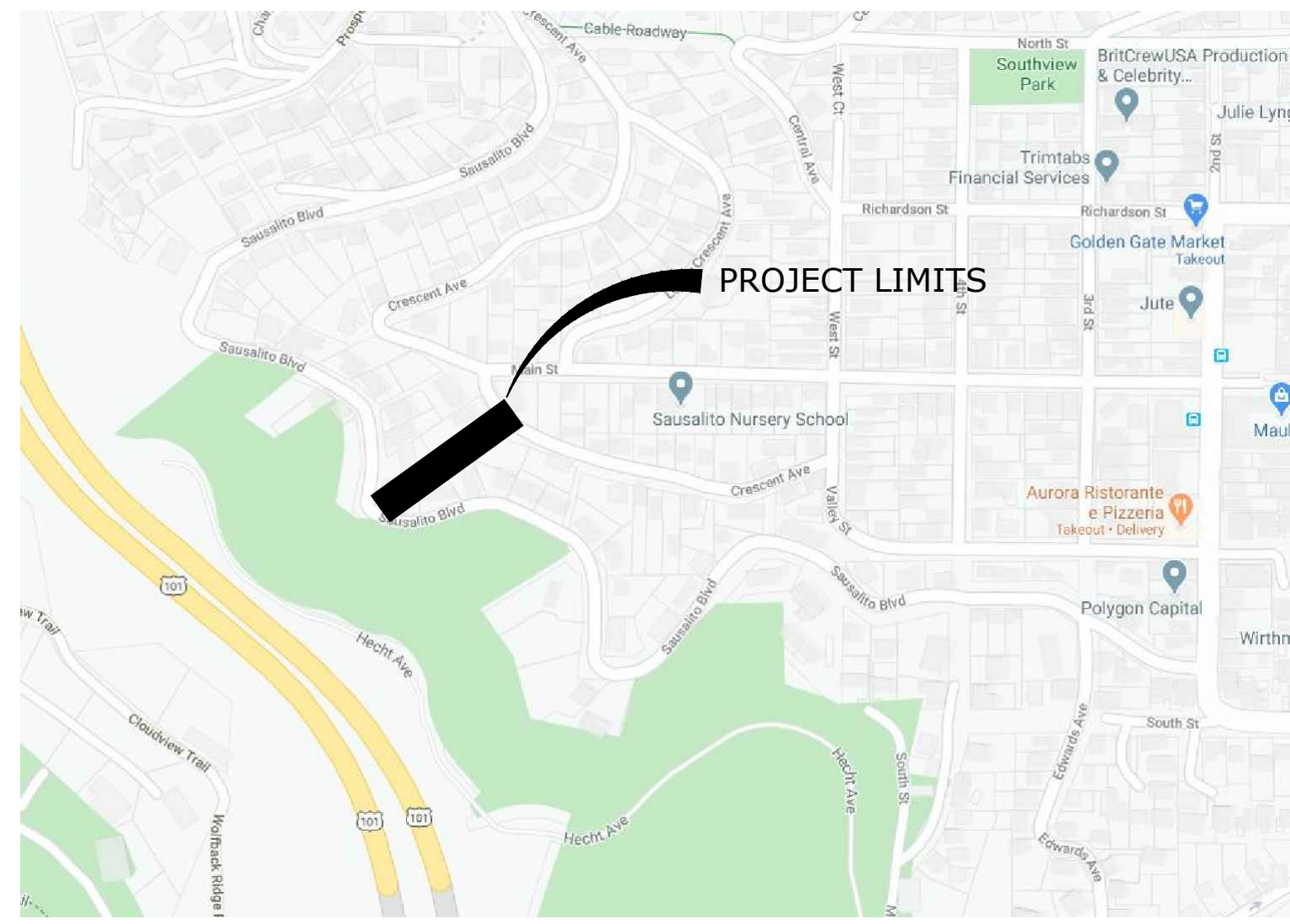


CITY OF SAUSALITO 2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION PROJECT

CITY PROJECT NO. 04.01.003
SAUSALITO, CA



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

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6	CD-1	CONSTRUCTION DETAILS
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8	CD-3	CONSTRUCTION DETAILS

LEGEND

PROPOSED	EXISTING	DESCRIPTION
---	---	EASEMENT
---	---	GAS
---	---	PROPERTY LINE
---	---	RETAINING WALL
---	SD	STORM DRAIN
---	SS	SANITARY SEWER
---	W	WATER
■	■	DRAINAGE INLET/CATCH BASIN
○	SDMH	STORM DRAIN MANHOLE
○	SSMH	SANITARY SEWER MANHOLE
○	JP	JOINT POLE
○	WM	WATER METER
○	CV	GAS VALVE
○	WV	WATER VALVE
△	△	CONTROL POINT
○	SDCO	SANITARY SEWER CLEAN OUT

ABBREVIATIONS

AB, ASB	AGGREGATE SUBBASE	MON	MONUMENT
AC	ASPHALT CONCRETE	NO	NUMBER
ADS	ADVANCED DRAINAGE SYSTEMS	NP	NON-PERFORATED
APPROX	APPROXIMATE	N.T.S	NOT TO SCALE
BC	BACK OF CURB/BEGIN CURVE	PERF	PERFORATED
BLDG	BUILDING	PROP	PROPOSED
BOW	BACK OF SIDEWALK	PVC	POLYVINYL CHLORIDE
CL, CL	CENTERLINE	R	RADIUS
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE	RD	ROAD
CPP	CORRUGATED POLYETHYLENE PIPE	R/R	REMOVE & REPLACE
E	ELECTRIC	R/W	RIGHT-OF-WAY
EC	EDGE OF CONCRETE	SD	STORM DRAIN
EG	EXISTING GRADE	SDCB	STORM DRAIN CATCH BASIN
EL OR ELEV	ELEVATION	SDDI	STORM DRAIN DRAINAGE INLET
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	SF	SQUARE FEET
G	GAS	SSE	SANITARY SEWER EASEMENT
GB	GRADE BREAK	SSMH	SANITARY SEWER MANHOLE
GRND	GROUND	ST	STREET
H, HORIZ	HORIZONTAL	STA	STATION
HDPE	HIGH DENSITY POLYETHYLENE	STD	STANDARD
HP	HINGE POINT	SWLK	SIDEWALK
INV	INVERT	T	TELEPHONE
LF	LINEAR FOOT	TB	TOP OF BANK
LDCC	LOW DENSITY CELLULAR CONCRETE	TC	TOP OF CURB
LOD	LIP OF DITCH	TOE	TOE OF SLOPE
LOG	LIP OF GUTTER	TW	TOP OF WALL
MAX	MAXIMUM	TYP	TYPICAL
MH	MANHOLE	UON	UNLESS OTHERWISE NOTED
MID	MIDDLE	UNK	UNKNOWN
MIN	MINIMUM	W/	WITH
MNFR	MANUFACTURER	W	WATER

GENERAL NOTES:

- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE RULES AND REGULATIONS ESTABLISHED BY CAL-OSHA AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK.
- CALTRANS STANDARD PLANS REFERRED TO IN THESE PLANS REFER TO THE 2018 EDITION AND REVISION.
- ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. THOSE SPECIFICALLY SHOWN ON PLANS ARE APPROXIMATE LOCATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION OF UTILITIES IN THE FIELD. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 811 AT LEAST 48 HOURS BEFORE DIGGING OR DEMOLITION OF IMPROVEMENTS. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION MUST BE BORNE BY CONTRACTOR.
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS, ELEVATIONS, ETC. OF EXISTING FACILITIES AND TO IMMEDIATELY NOTIFY ENGINEER OF ANY FIELD CONFLICTS OR OMISSIONS.
- THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENTATION CONTROL PLAN FOR WORK IN THE PUBLIC RIGHT OF WAY TO THE ENGINEER FOR REVIEW AND MUST BE ACCEPTED PRIOR TO BEGINNING OF WORK AND SUBMITTED THROUGH THE CITY OF SAUSALITO ENCROACHMENT PERMIT PROCESS.
- CONTRACTOR TO COMPLY WITH ALL LOCAL COVID-19 SAFETY REGULATIONS THROUGHOUT THE PROJECT.

APPROVED
KEVIN MCGOWAN
CITY ENGINEER/PUBLIC WORKS DIRECTOR

DATE



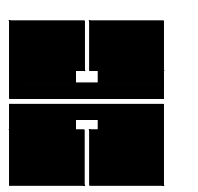
Know what's below.
Call before you dig.

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NO.	DATE	BY	DESCRIPTION

PROFESSIONAL SEAL
ANDREW J. HARRIS
C63971
CIVIL ENGINEER
STATE OF CALIFORNIA

DRAWN BY: YX
DESIGNED BY: YX
CHECKED BY: AM
DATE ISSUED: 6-26-20



Harris & Associates
1401 Willow Pass Rd. Ste. 500, Concord CA. 94520
WeAreHarris.com (925) 827-4900



2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION

TITLE, GENERAL NOTES, LEGEND, AND ABBREVIATIONS

JOB NO. 190-0219001
DRAWING NO. **T-1**
SHEET 1 OF 8

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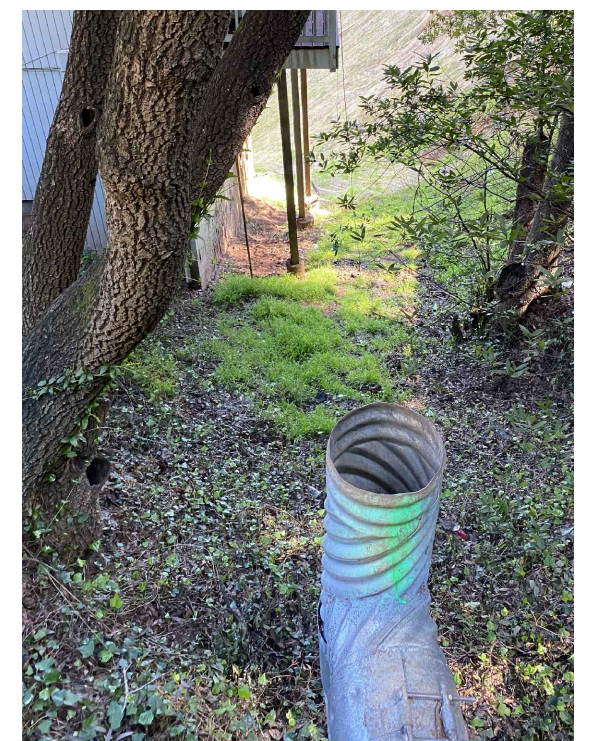
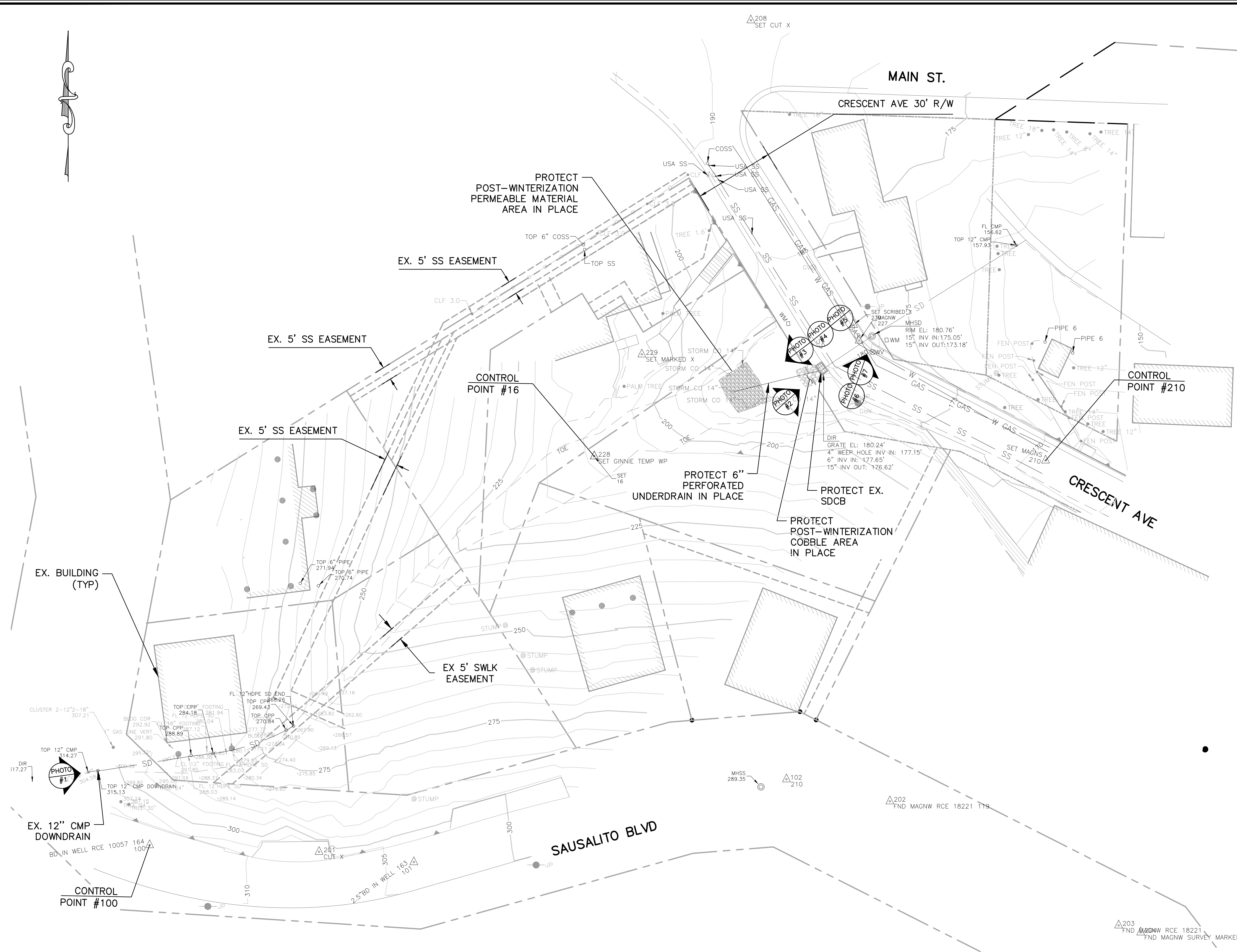


PHOTO #1 EX. 12" CMP

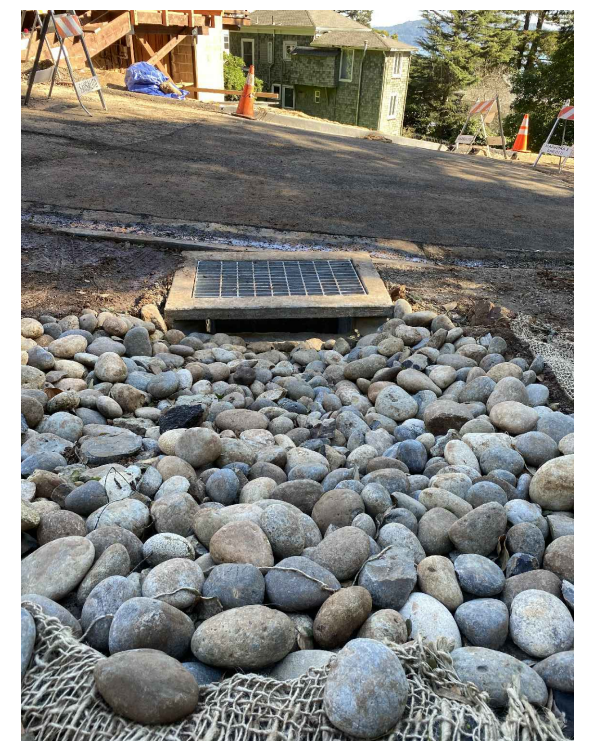


PHOTO #2 COBBLE AREA AND DS



PHOTO #3 PHOTO #4 PHOTO #5 PERMEABLE GRAVEL BED/SDCO AND SUBDRAINS



PHOTO #6 EX. SDMH



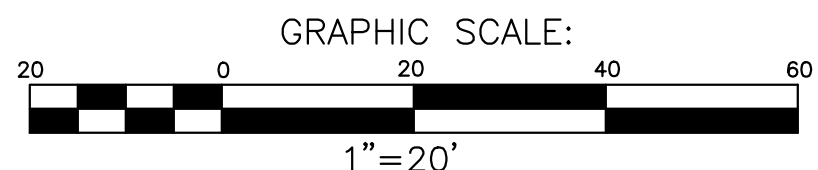
PHOTO #7 EX. SDMH

SURVEY CONTROL POINTS

POINT#	NORTHING	EASTING	ELEVATION
16	2137527.793	5988243.690	209.32
100	2137381.274	5988076.215	312.51
210	2137526.222	5988243.690	169.15

NOTES:

1. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD.
2. SURVEY WAS PREPARED IN FEBRUARY 2020 BY CHAUDHARY & ASSOCIATES INC.



POST WINTERIZATION CONDITIONS PLAN
SCALE: 1"=20'-0"

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NO.	DATE	BY	DESCRIPTION

PROFESSIONAL SEAL
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 C63971

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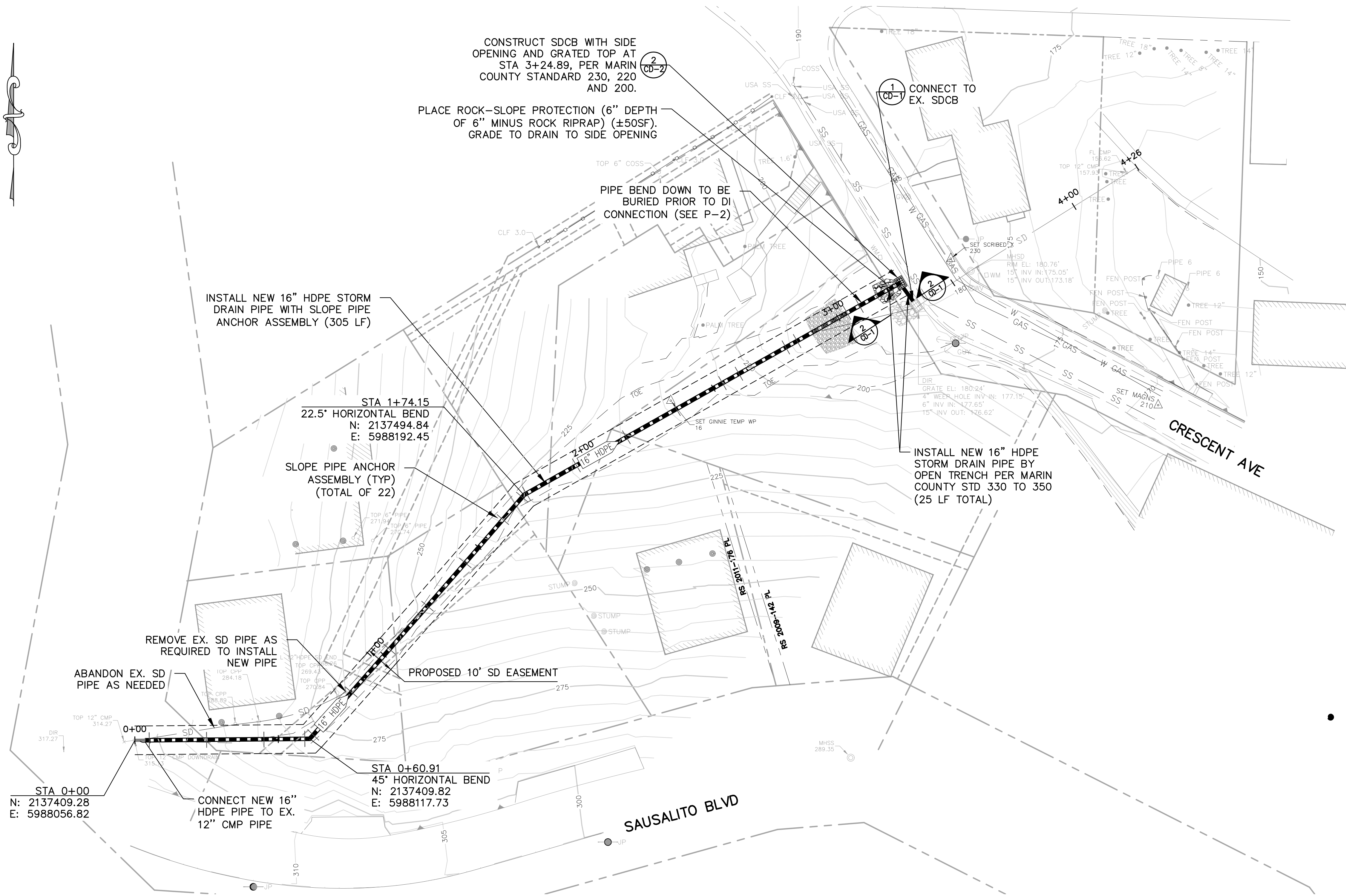
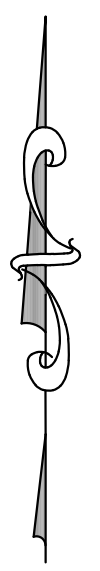


2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION

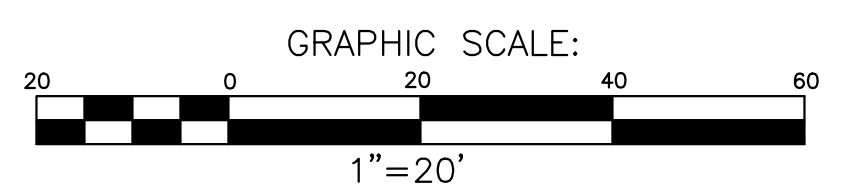
POST WINTERIZATION (EXISTING) CONDITIONS

JOB NO. 190-0219001
 DRAWING NO. **E-1**
 SHEET 2 OF 8

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STORM DRAINAGE RESTORATION PLAN
SCALE: 1"=20'-0"



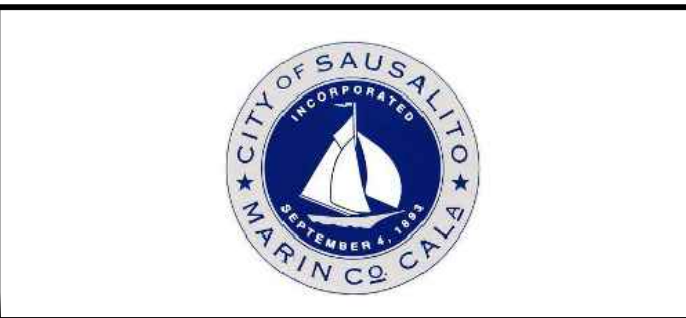
- NOTES:**
1. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE PLAN, AND THE ALIGNMENT AND LOCATION OF THE EX 12" SD PIPE ARE APPROXIMATE. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE UTILITIES PRIOR TO CONSTRUCTION. IF UTILITY CONFLICTS ARE IDENTIFIED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
 2. CONTRACTOR SHALL EXCAVATE CAREFULLY AROUND THE PROPOSED STORM DRAIN PIPE. ANY DAMAGE CAUSED TO THE EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 3. BENDING OF NEW PIPING AND/OR JOINT DEFLECTIONS SHALL BE IN ACCORDANCE WITH AWWA AND PIPE MANUFACTURER'S RECOMMENDATIONS.
 4. CONTRACTOR MAY WALK THROUGH THE SITE WITH CITY STAFF, AND ADJUST AND OFFSET THE HORIZONTAL ALIGNMENT OF THE PROPOSED SD PIPE TO MINIMIZE THE INSTALLATION OF THE PIPE IN THE DRAW OF THE NATURAL DRAINAGE RAVINE APPROVED BY THE CITY.
 5. CONTRACTOR SHALL RESTORE JUTE NET AND HYDROSEED UPON COMPLETION OF STORM DRAINAGE RESTORATION (SD PIPE AND SDDI), AS NEEDED PER CALTRANS STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED BY GEOCON.

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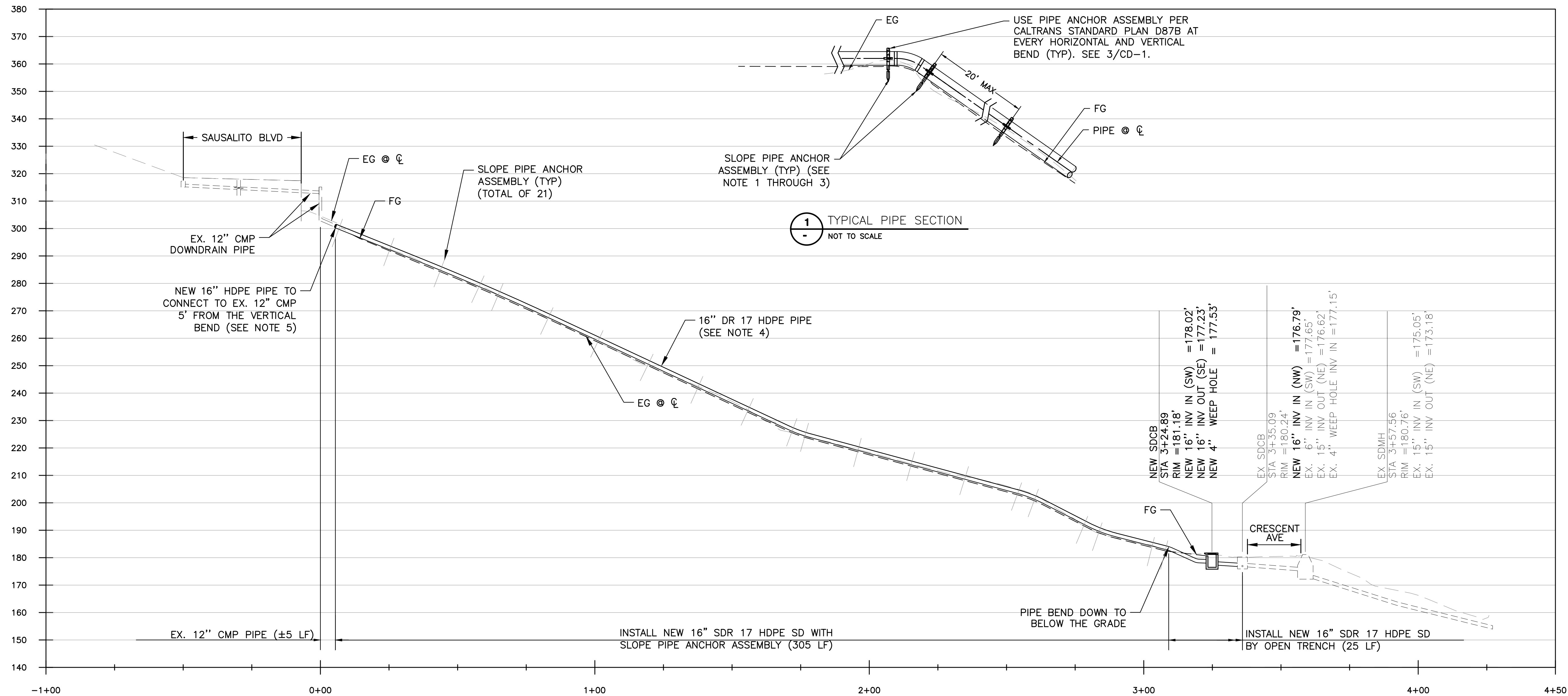


**2019 DISASTER - SAUSALITO BLVD TO
CRESCENT AVE PERMANENT RESTORATION**

**STORM DRAINAGE RESTORATION
PLAN**

JOB NO. 190-0219001
 DRAWING NO. **P-1**
 SHEET 3 OF 8

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16" HDPE STORM DRAINAGE PIPE PROFILE

VERTICAL SCALE: 1"=20'-0"
 HORIZONTAL SCALE: 1"=20'-0"

NOTES:

1. DOWNDRAIN PIPE ANCHOR ASSEMBLIES SHALL BE PER CALTRANS STANDARD PLAN D87B. INSTALL AT EACH VERTICAL AND HORIZONTAL BEND. THE SPACING BETWEEN PIPE ANCHOR RESTRAINERS SHALL NOT EXCEED 20 FT. CONTRACTOR
2. GEOTECHNICAL REPORT PREPARED BY GEOCON REFLECTS THE PRESENCE OF THE BEDROCK LAYER WITHIN 1 TO 2 FEET BELOW GRADE IN HAND AUGER BORINGS ALONG THE PIPE ALIGNMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE THAT BEDROCK LAYER WILL BE ENCOUNTERED DURING PIPE ANCHOR/JOINT RESTRAINER INSTALLATION. CONTRACTOR SHALL SUBMIT A PLAN OF PIPE ANCHORING METHODS/MEANS FOR APPROVAL PRIOR TO INSTALLATION.
3. THE SURFACE UNDER THE PIPE SHALL BE FREE FROM BOULDERS, CREVICES, OR OTHER IRREGULARITIES THAT COULD CREATE ANY POINT-LOADING SITUATION ON THE PIPE.

4. WHEN PLACE PIPE, IF THERE ARE ANY BUMPS AND/OR DEPRESSION HOLES, CONTRACTOR SHALL CUT AND/OR BACKFILL WITH DRAIN ROCK TO PROVIDE SMOOTH RESTING PLACE FOR THE PIPE, WITH A MINIMUM 6" CLEARANCE BETWEEN THE FINISHED GRADE TO THE BOTTOM OF THE PIPE.
5. CONNECT EX 12" CMP PIPE TO THE NEW 16" HDPE PIPE BY INSTALLING THE ADJUSTABLE REPAIR COUPLING (RUBBER BAND COUPLING). BACKFILL AND COVER WITH CONCRETE FROM THE COUPLING TO VERTICAL BEND, WHERE THE PIPE IS EXPOSED.

LEGEND

- FINISH GRADE
- EX GRADE
- APRX TOP OF FRANCISCAN COMPLEX LAYER

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 CIVIL
 STATE OF CALIFORNIA
 C63971

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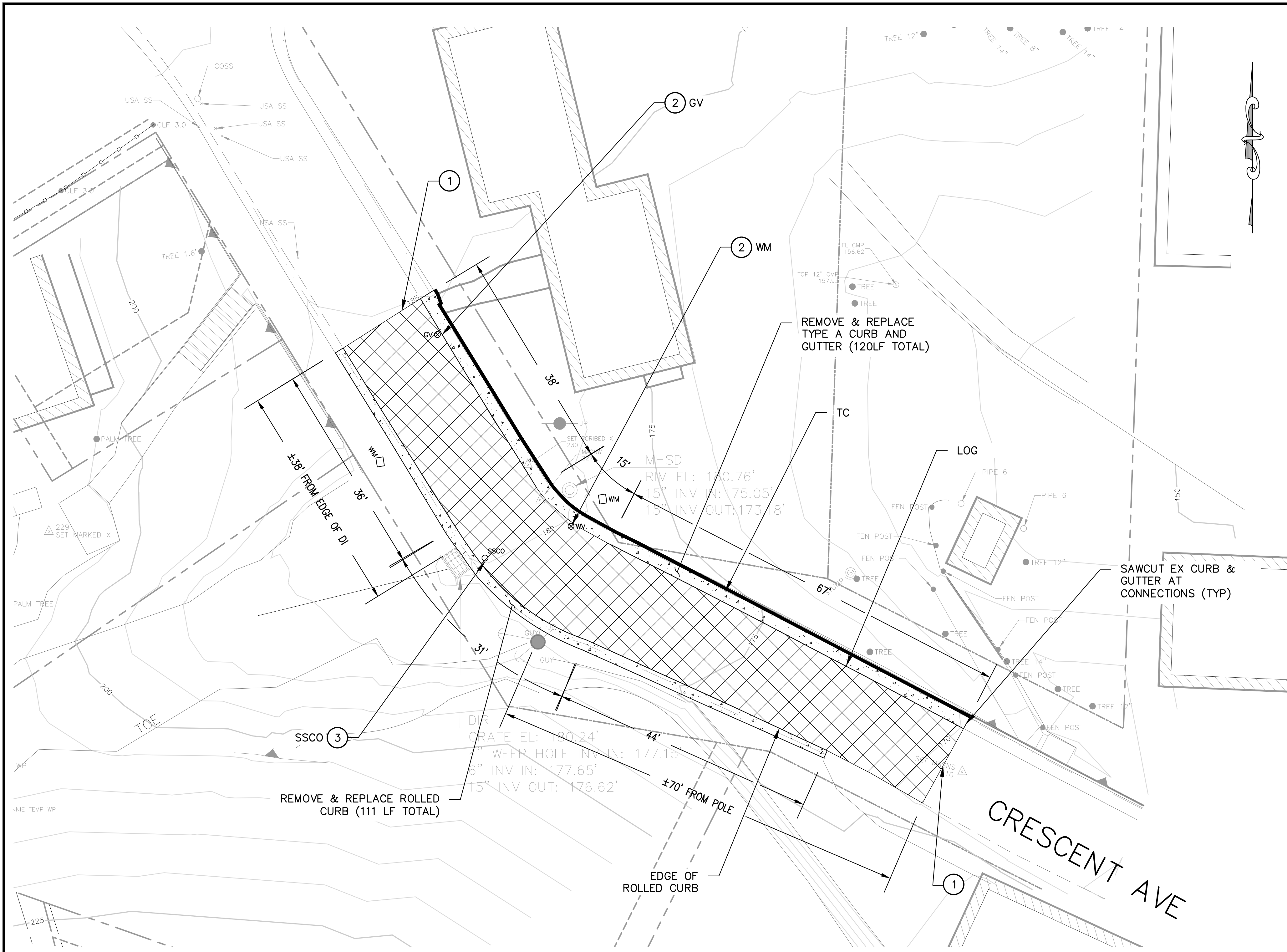


2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION

PERMANENT STORM DRAINAGE RESTORATION PROFILE

JOB NO. 190-0219001
 DRAWING NO. **P-2**
 SHEET 4 OF 8

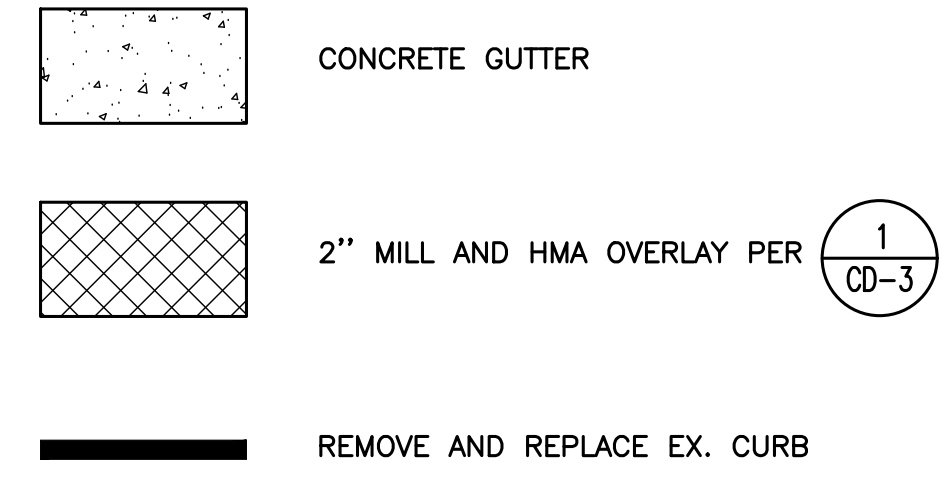
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CONSTRUCTION NOTES:

- ① LIMIT OF PAVEMENT RESTORATION WORK. CONFORM TO EXISTING PAVEMENT
- ② ADJUST EXISTING UTILITY FRAME AND COVER TO GRADE
- ③ EXPOSE/RESTORE EXISTING UTILITY

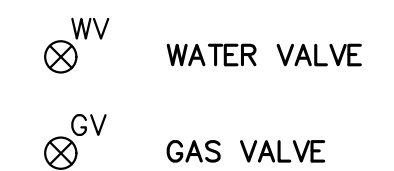
PAVEMENT REHABILITATION LEGEND:



EXISTING FACILITIES TO BE PROTECTED:



EXISTING FACILITIES TO BE ADJUSTED:



EXISTING FACILITIES TO BE EXPOSED/RESTORED:

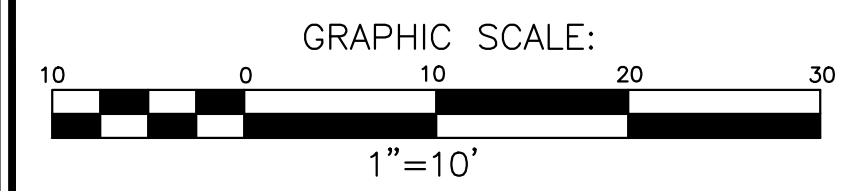


NOTES:

1. PROTECT ALL DRAINAGE INLETS WITH TEMPORARY CONSTRUCTION SITE BMP MEASURES.
2. LIMIT OF PAVING IS GENERALLY PER THE FOOTPRINT DAMAGED BY THE LANDSLIDE AND PREVIOUS CONSTRUCTION. EXACT LIMIT SHALL BE DETERMINED IN THE FIELD AND AGREED UPON BY THE CM/INSPECTOR/CITY REPRESENTATIVE.
3. ADJUST ALL EXISTING UTILITIES FRAMES AND COVERS TO GRADE THAT ARE WITHIN THE PAVING LIMIT.
4. 20% OF THE PAVING AREA ARE ASSUMED TO RECEIVE BASE (DIGOUTS) REPAIR. CONTRACTOR SHALL VERIFY AND ADJUST IN THE FIELD. BASE REPAIR SHALL BE PER 2
CD-3

CRESCENT AVE PAVEMENT RESTORATION PLAN

SCALE: 1"=10'-0"

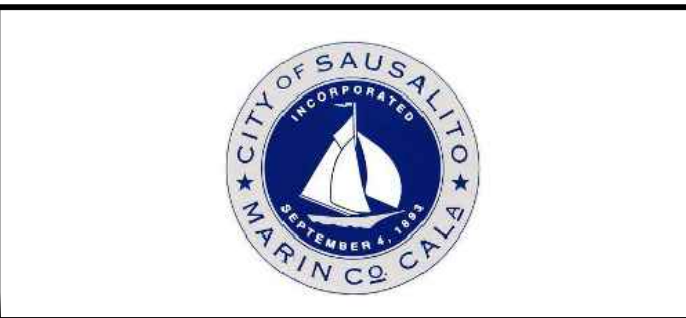


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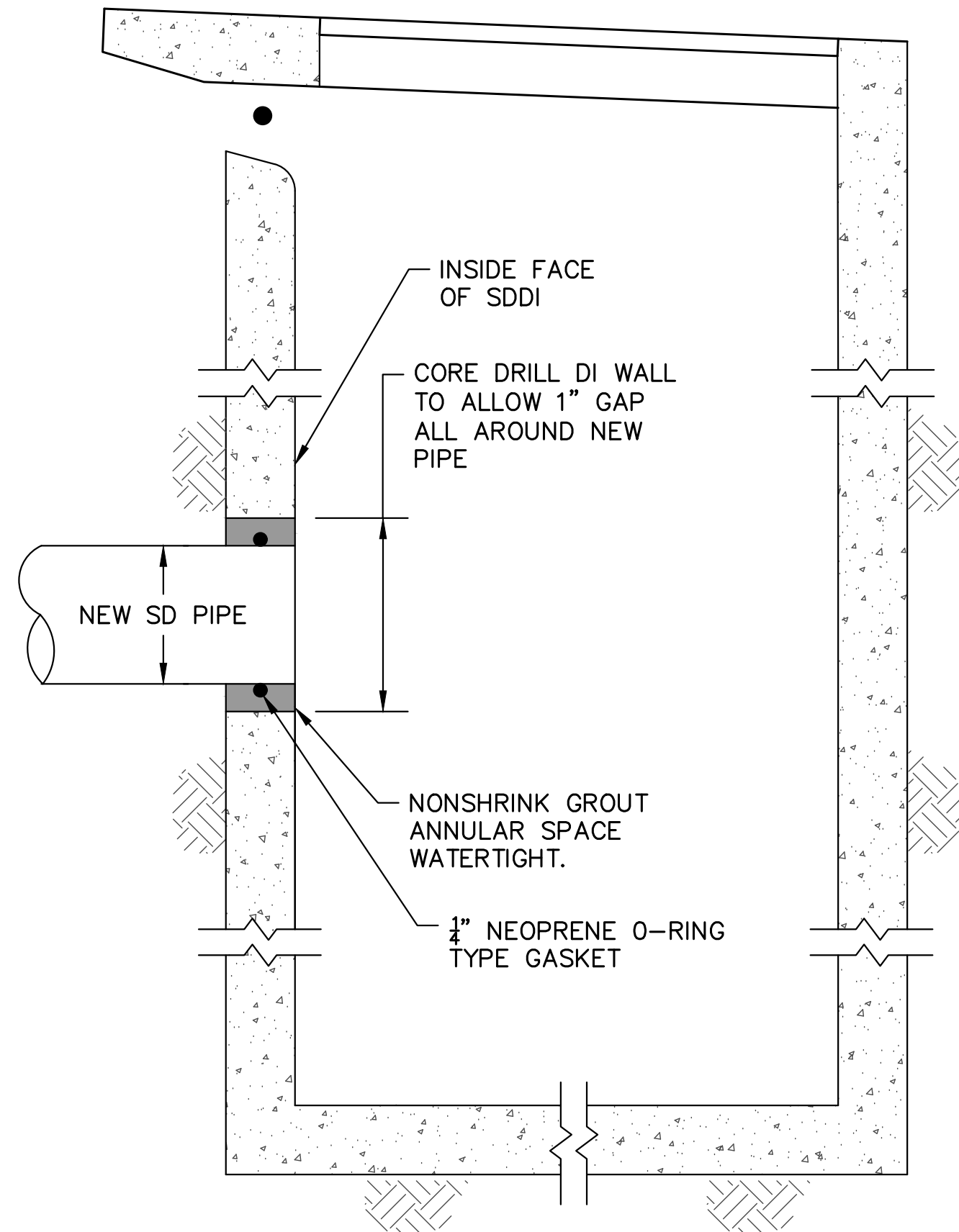
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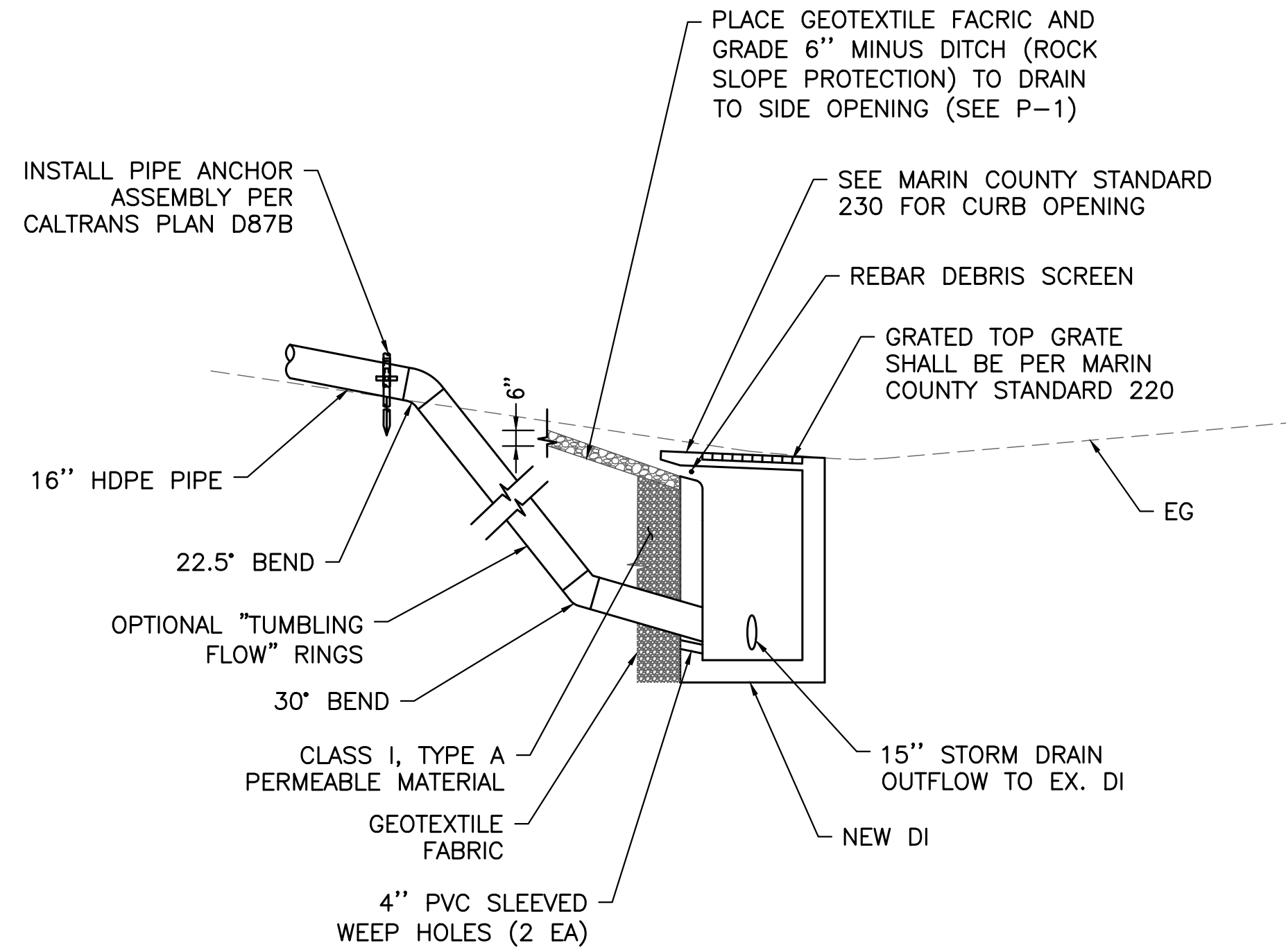
2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION
CRESCENT AVE PAVEMENT RESTORATION PLAN

JOB NO. 190-0219001
 DRAWING NO. **P-3**
 SHEET 5 OF 8

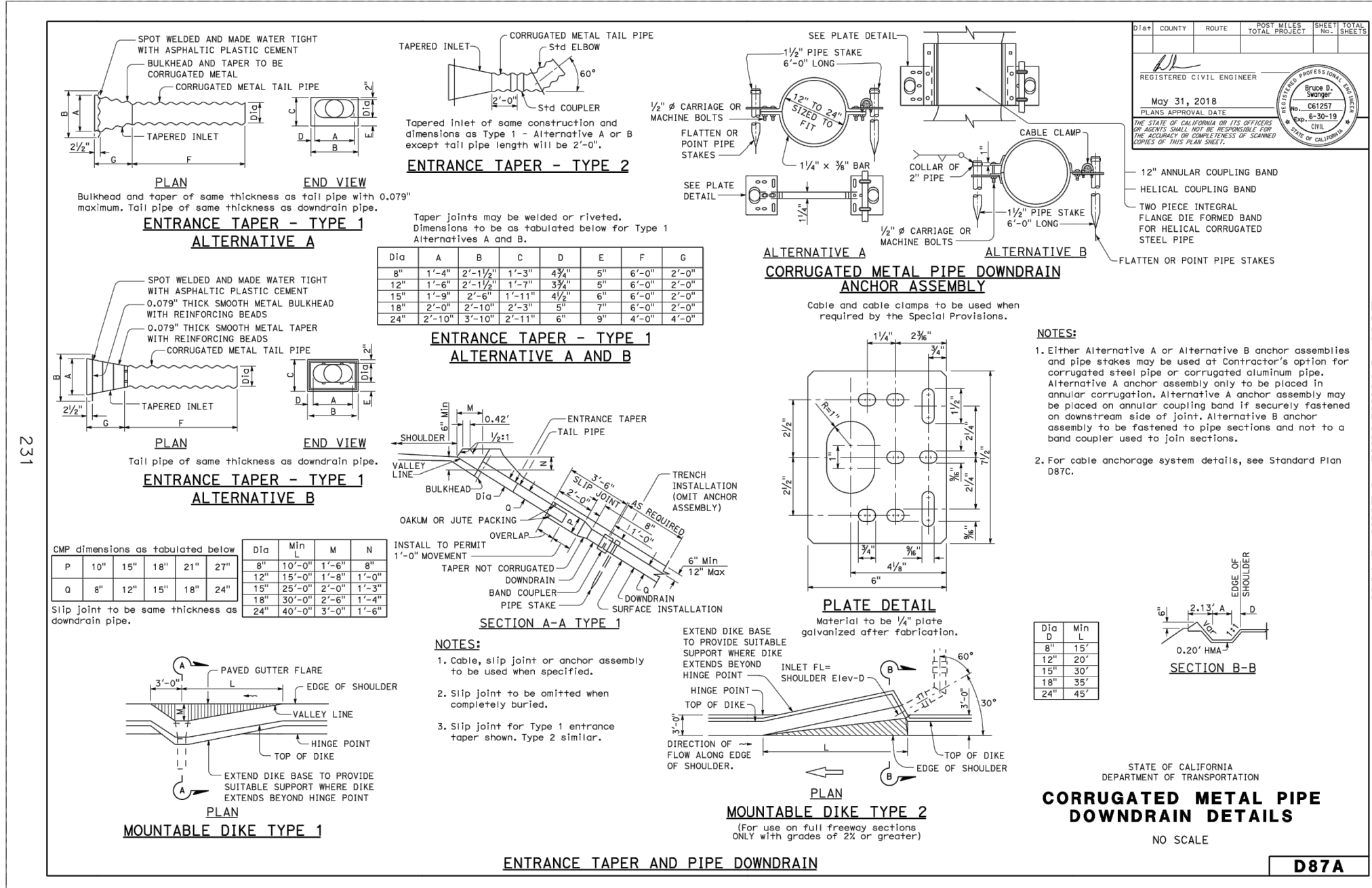
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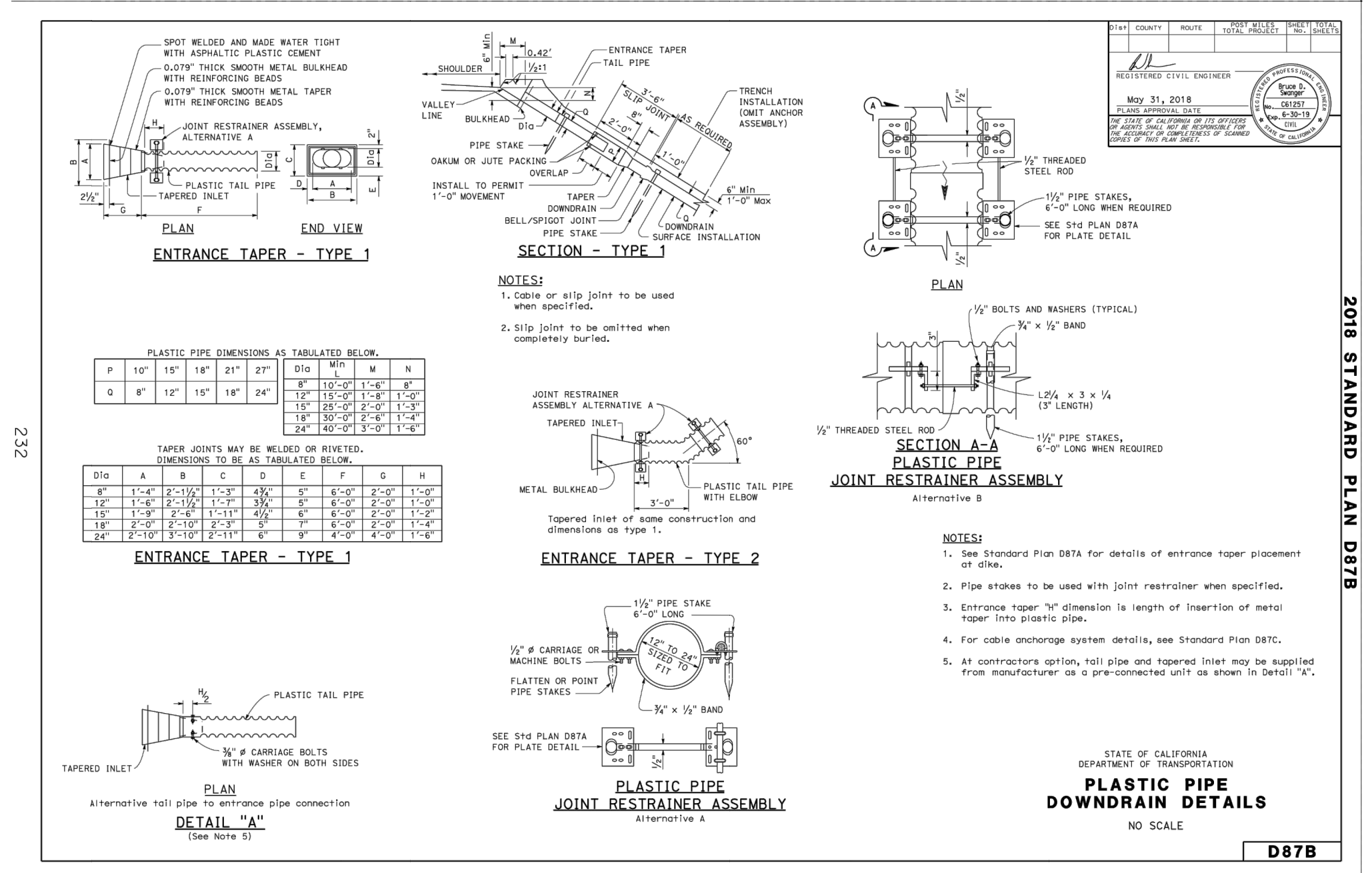
1 SD PIPE CONNECTION TO EXISTING SDDI
NOT TO SCALE



2 DRAINAGE INLET SECTION
NOT TO SCALE



3 HDPE PIPE JOINT RESTRAINER AND PIPE ANCHOR DETAIL
NOT TO SCALE



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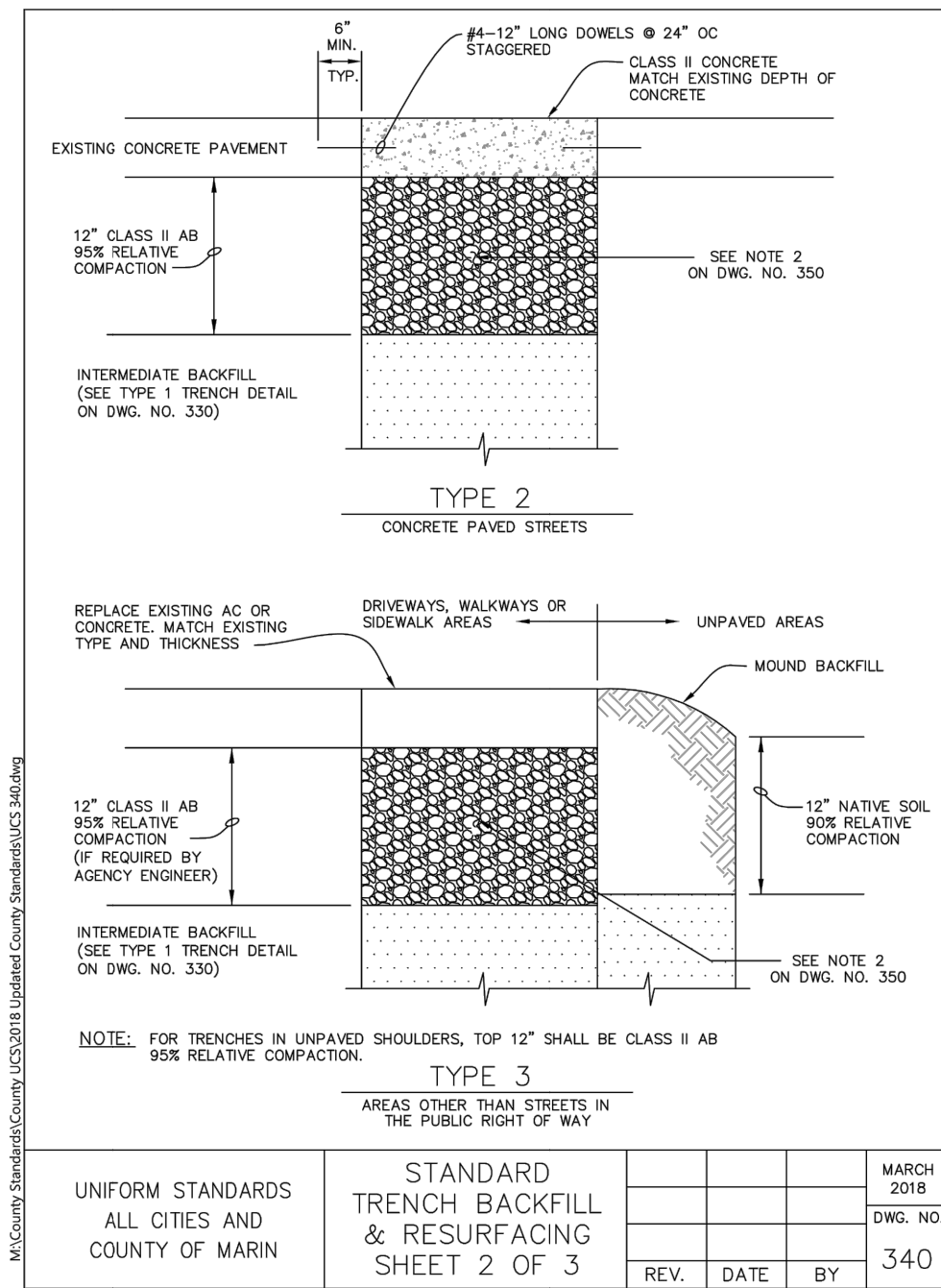
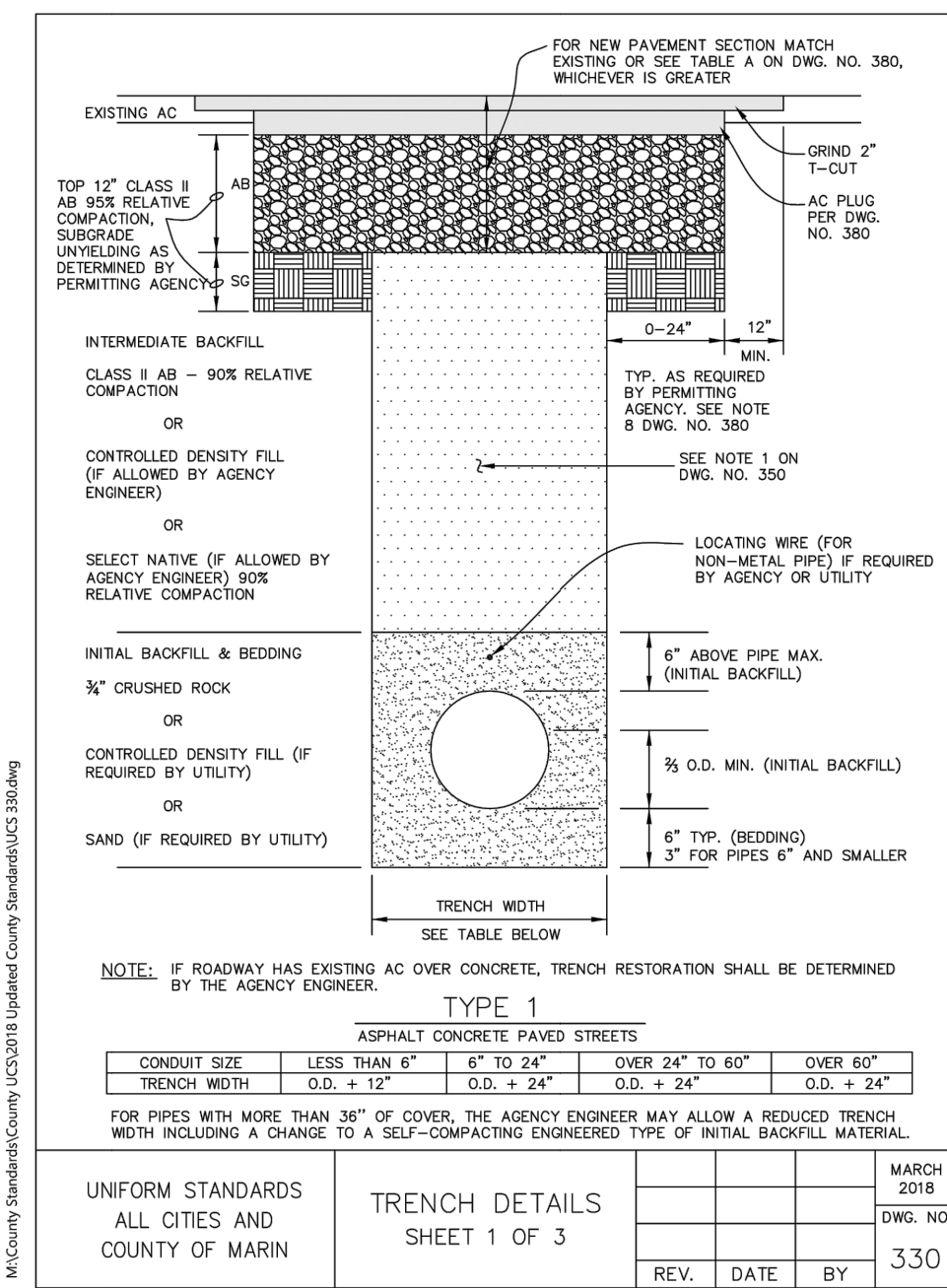
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CITY OF SAUSALITO
 MARIN COUNTY CALIF.

2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION
CONSTRUCTION DETAILS

JOB NO. 190-0219001
 DRAWING NO. **CD-1**
 SHEET 6 OF 8

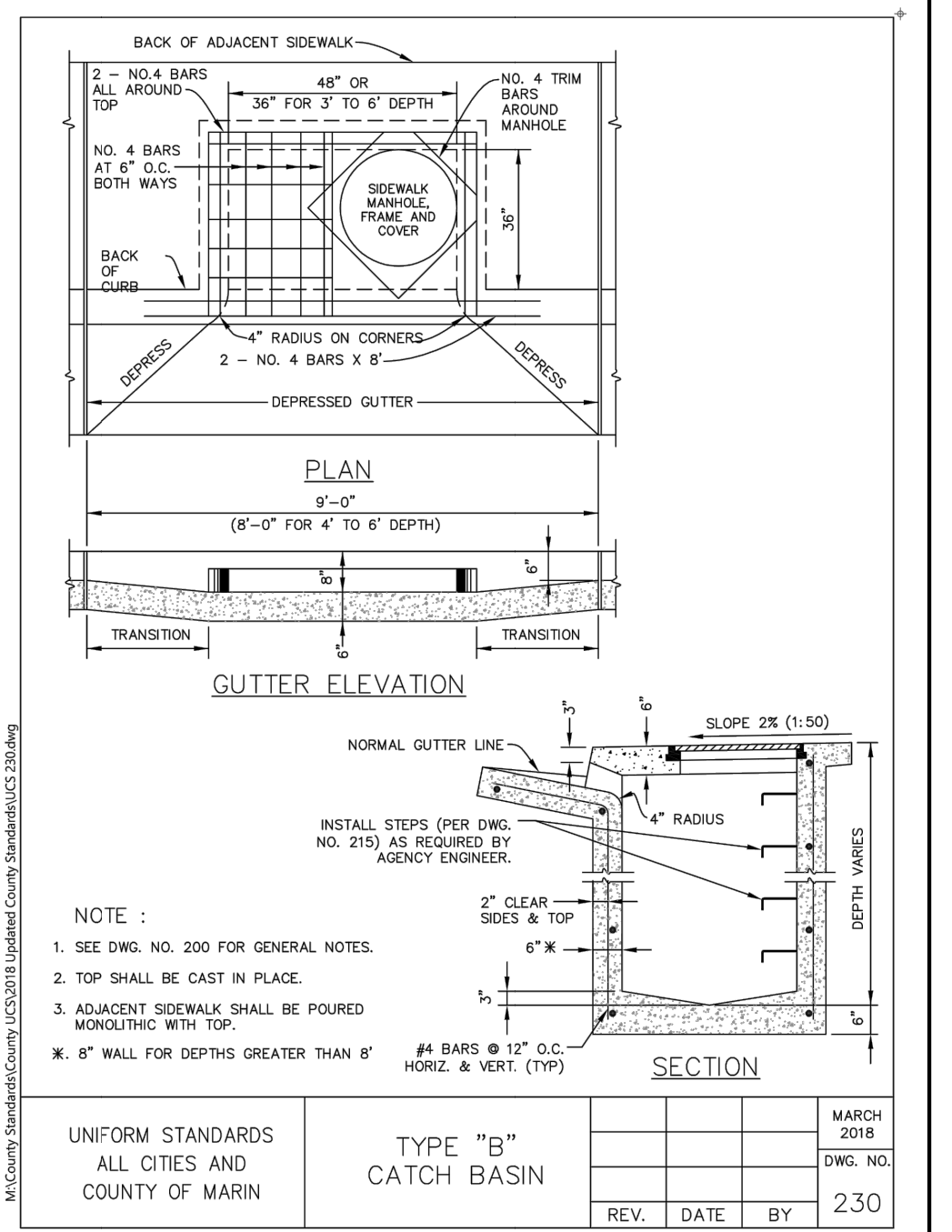
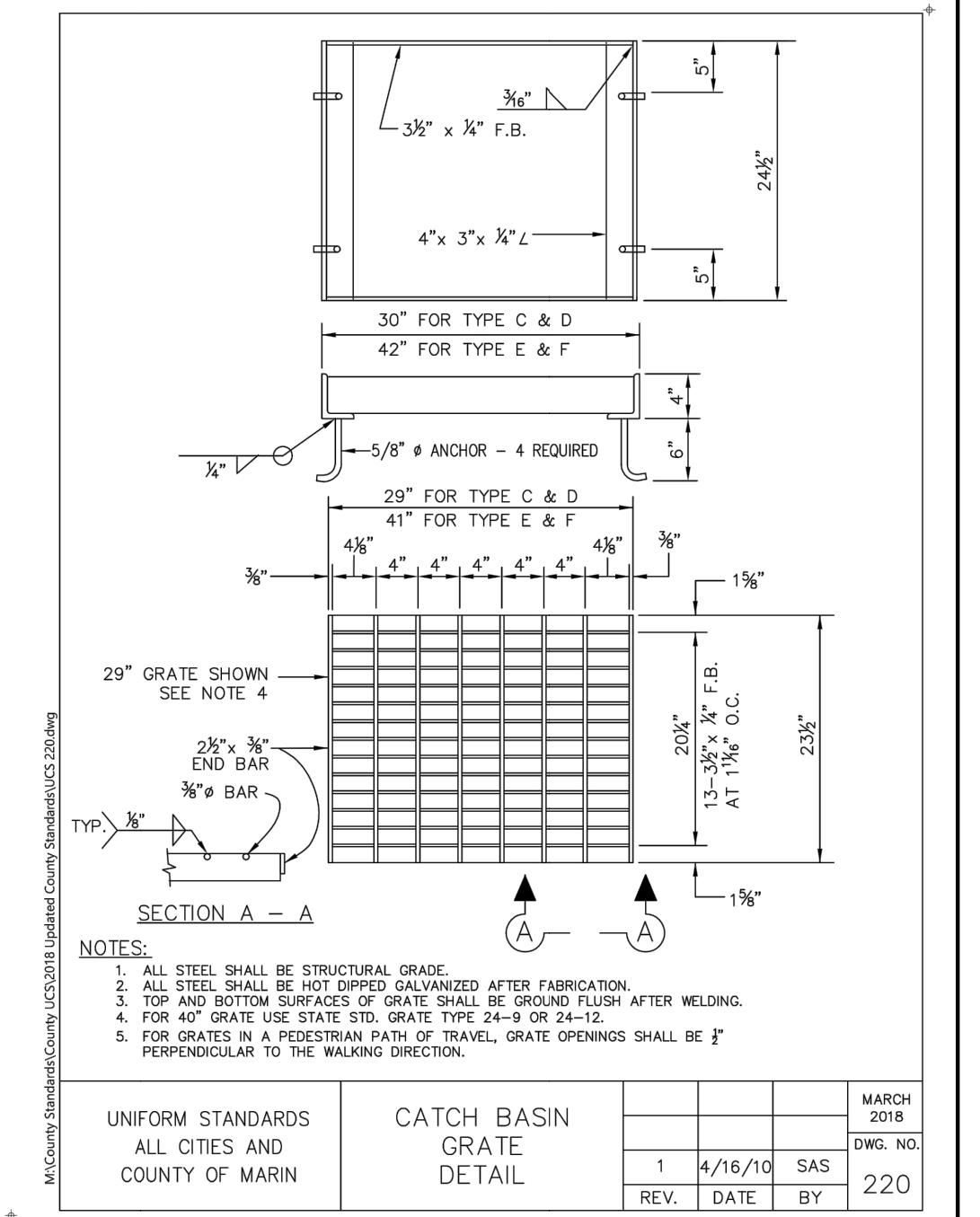
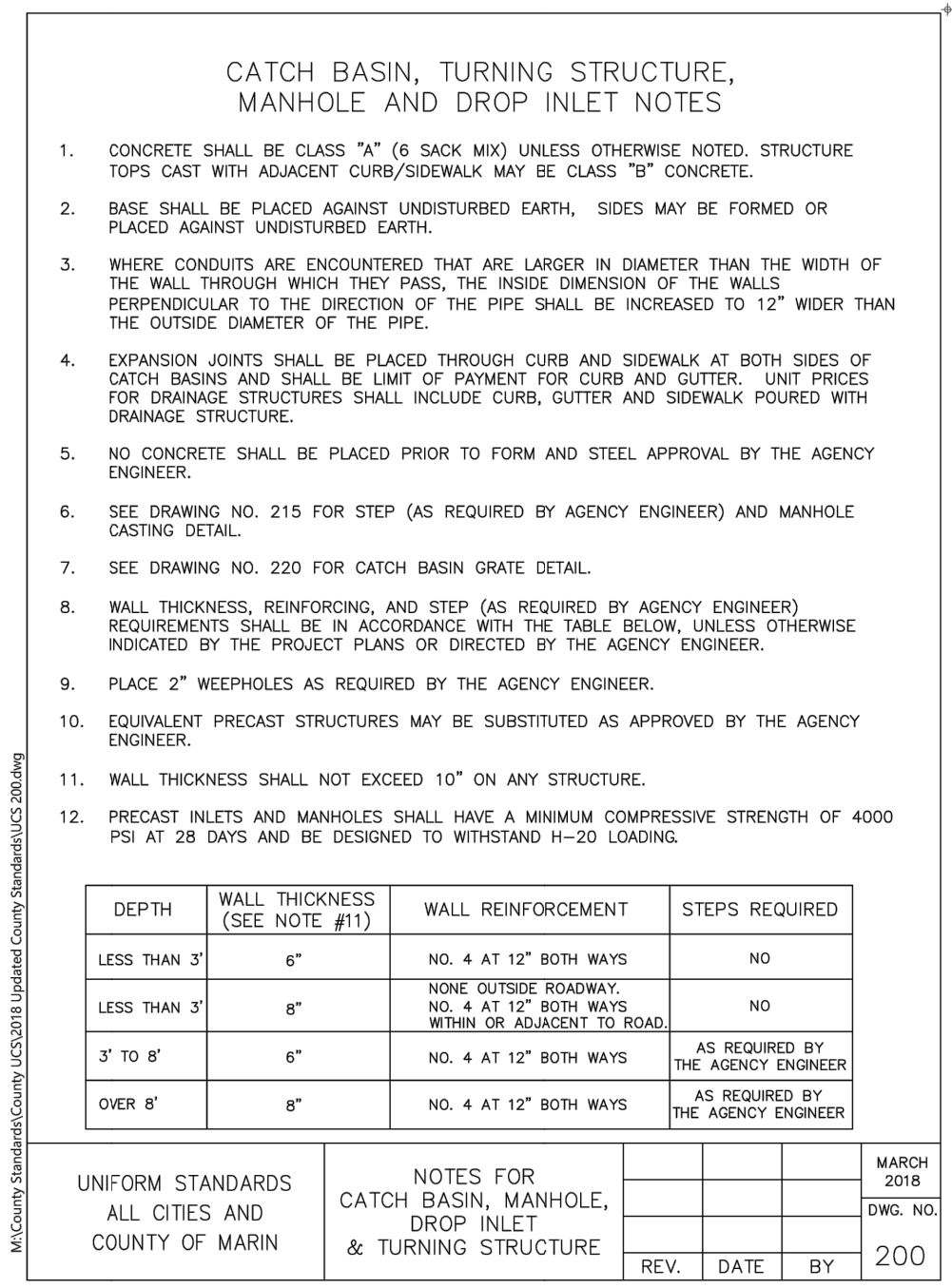


MATERIAL AND COMPACTION REQUIREMENT FOR TRENCH BACKFILL

- INTERMEDIATE BACKFILL SHALL BE CLASS II AGGREGATE BASE, SUITABLE NATIVE OR IMPORTED GRANULAR MATERIAL MAY BE USED IF ALLOWED BY AGENCY ENGINEER. RELATIVE COMPACTION SHALL BE AT LEAST 90%.
- CLASS II AGGREGATE BASE SHALL CONFORM TO THE STATE STANDARD SPECIFICATIONS. MINIMUM RELATIVE COMPACTION SHALL BE 93%. IF PAVEMENT HAVING A STRUCTURAL SECTION GREATER THAN 15" IS CUT, ADDITIONAL BASE MATERIAL MAY BE REQUIRED BY THE AGENCY ENGINEER. BASE SHALL BE PLACED AND COMPACTED PRIOR TO PLACING OF TEMPORARY PAVING.
- TESTING OF MATERIALS AND PERFORMANCE SHALL BE IN CONFORMANCE WITH THE METHODS STATED IN THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, EXCEPT THAT RELATIVE COMPACTION MAY BE TESTED BY AASHTO METHOD T180, ASTM D-1557, OR TEST METHOD CALIF. 231 (NUCLEAR DENSITOMETER).
- PLACE AC IN 3" MAX. LIFTS, EXCEPT FINAL LIFT SHALL BE 2 1/2" MAX. ADDITIONAL THICKNESS AND LIFTS OF ASPHALT CONCRETE MAY BE REQUIRED TO MATCH EXISTING STRUCTURAL SECTION ON MAJOR ROADS, OR PER LOCAL JURISDICTION REQUIREMENTS.
- "JETTING" OF BACKFILL MATERIAL IS NOT PERMITTED.
- THE USE OF PEA GRAVEL (OR SIMILAR ROUNDED AGGREGATE), IS NOT PERMITTED.
- THE USE OF CONTROLLED DENSITY FILL (CDF) SHALL BE APPROVED BY THE AGENCY ENGINEER PRIOR TO PLACEMENT.
- TRENCH EDGES SHALL BE TRIMMED TO A NEAT LINE AS REQUIRED BY THE AGENCY ENGINEER. TRIMMING SHALL BE BY ROTARY GRINDER. TRENCH LINES SHALL HAVE THE LEAST AMOUNT OF JOGS AND REMAIN LINEAR AS MUCH AS POSSIBLE. REFERENCE DRAWING NO. 360, 370 & 380.
- THE SURFACE COURSE OF TRENCH RESTORATION SHALL EXTEND TO THE LIP OF GUTTER IF THE EDGE OF TRENCH IS WITHIN 4' OF THE LIP OF GUTTER, AND TO THE EDGE OF PAVEMENT IF THE EDGE OF TRENCH IS WITHIN 4' OF AN UNPAVED SHOULDER.
- CONTRACTOR MUST SHORE ALL TRENCHES IN CONFORMANCE WITH OSHA AND STATE SAFETY STANDARDS.
- ALL HOT MIX ASPHALT (HMA) MATERIAL, METHODS AND TOLERANCES SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS.

UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN	TRENCH NOTES SHEET 3 OF 3	REV.	DATE	BY	MARCH 2018 DWG. NO. 350
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1 TRENCH AND BACKFILL DETAIL
NOT TO SCALE



2 CATCH BASIN, DROP INLET STRUCTURE DETAILS
NOT TO SCALE

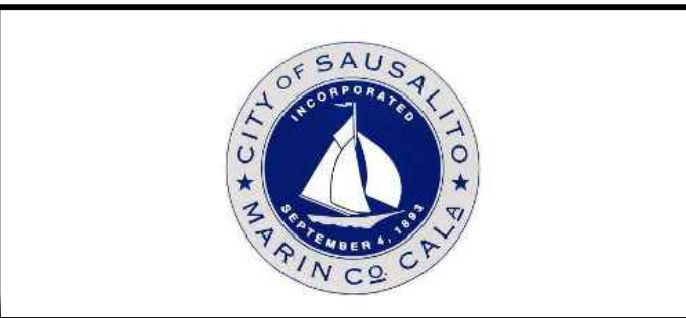
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ENGINEER AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ENGINEER. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND FIELD DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER PRIOR TO THE START OF ANY WORK.

NO.	DATE	BY	DESCRIPTION

PROFESSIONAL ENGINEER
C63971
STATE OF CALIFORNIA

DRAWN BY YX
DESIGNED BY YX
CHECKED BY AM
DATE ISSUED 6-26-20

Harris & Associates
1401 Willow Pass Rd. Ste. 500, Concord CA. 94520
WeAreHarris.com (925) 827-4900

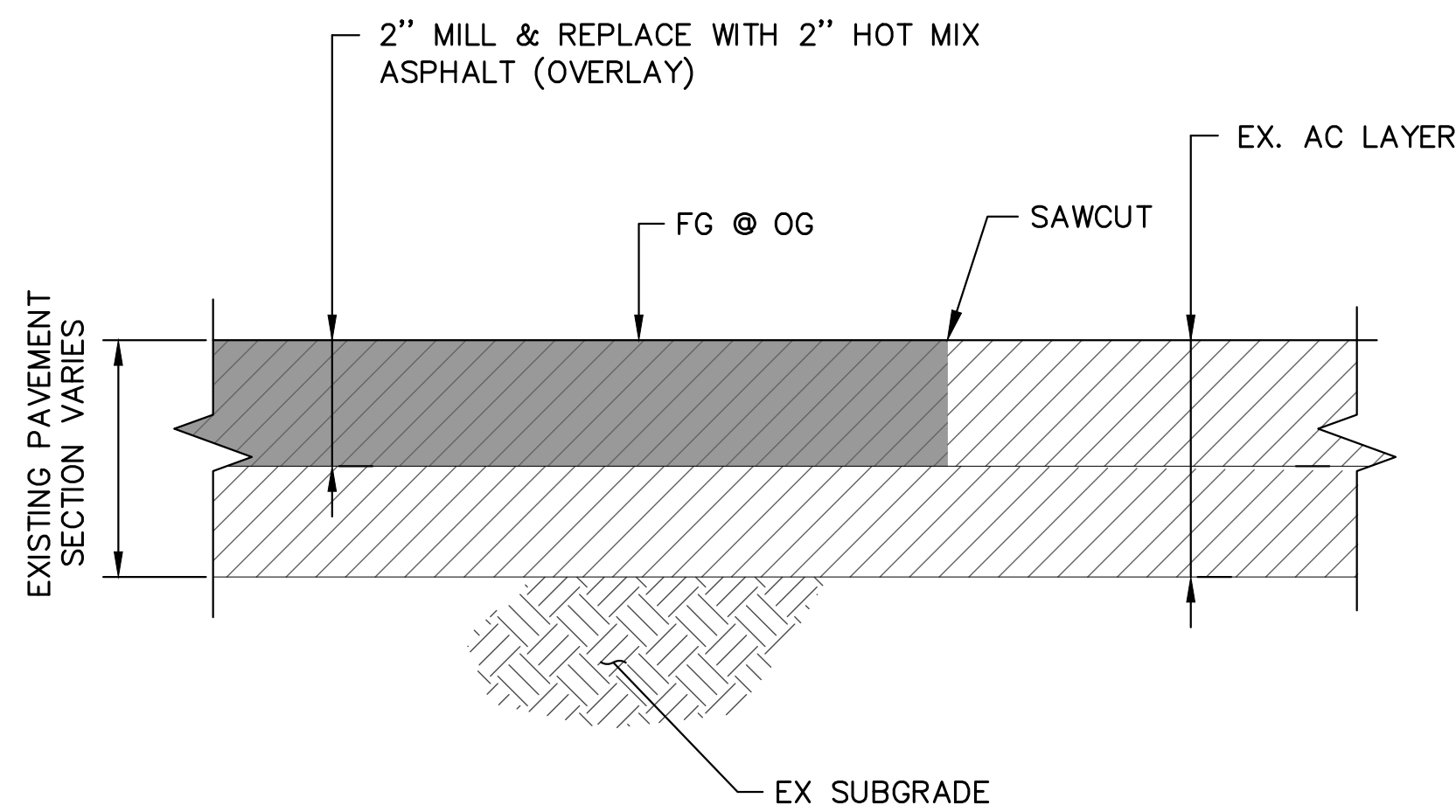


2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION

CONSTRUCTION DETAILS

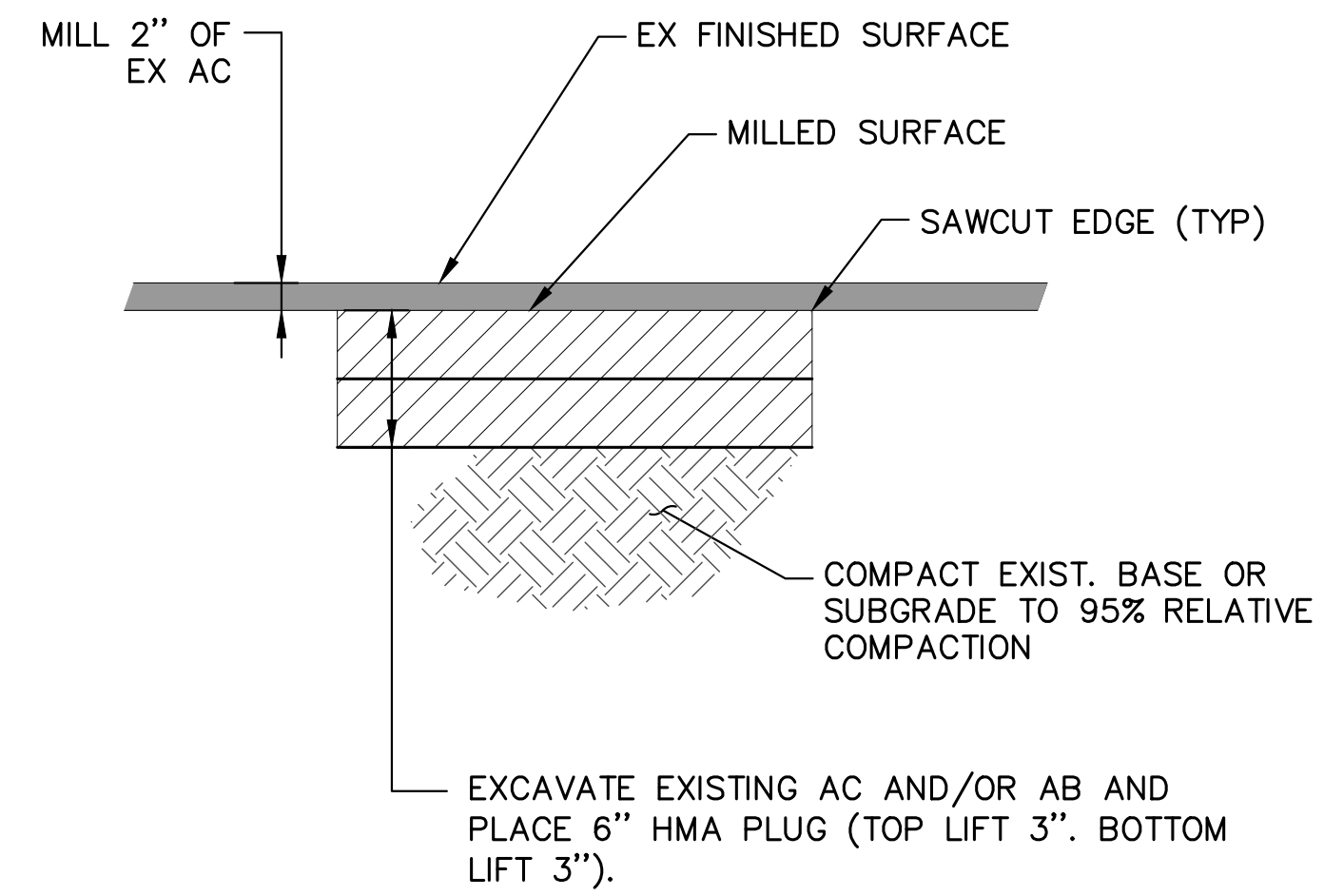
JOB NO. 190-0219001
DRAWING NO. CD-2
SHEET 7 OF 8

H:\Sausalito\Emergency Services\Permanent Solution\06-09_CD-1-3.dwg Save Date: 6/25/2020 8:14 PM Plot Date: 6/25/2020 6:14 PM Y:\lin.XU XREFS: X-22x34TB



NOTES:
 1. SEE DETAIL **2** FOR BASE REPAIR (DIGOUTS) AT MILL & OVERLAY SECTIONS

1 TYPICAL MILL AND OVERLAY SECTION
 - NOT TO SCALE




NOTES:
 1. BASE REPAIRS, SHALL BE PERFORMED AFTER TOP 2" AC MILLING HAS OCCURRED. A WATER TRUCK OR HEAVY EQUIPMENT SHALL BE USED TO IDENTIFY AND MARK THE LIMITS OF DIGOUT AREA SUBGRADE.
 2. APPLY TACK COAT TO ALL SURFACES (VERTICAL AND HORIZONTAL) PRIOR TO PLACEMENT OF NEW HMA.

2 TYPICAL HMA BASE (DIGOUTS) REPAIR
 - NOT TO SCALE

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NO.	DATE	BY	DESCRIPTION


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2019 DISASTER - SAUSALITO BLVD TO CRESCENT AVE PERMANENT RESTORATION
CONSTRUCTION DETAILS

JOB NO. 190-0219001
 DRAWING NO. **CD-3**
 SHEET 8 OF 8