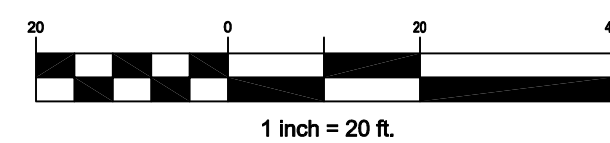


Graphic Scale (in feet)



BASIS OF TOPOGRAPHY

FIELD SURVEY PERFORMED BY DELTA SURVEYING IN MAY & JUNE 2015.

BOUNDARY LINES SHOWN ARE FOR VISUAL PURPOSES ONLY BASED ON RETRACEMENTS OF RECORD MAPS (AS INDICATED) AND ARE SHOWN IN THEIR APPROXIMATE LOCATIONS RELATIVE TO EXISTING MONUMENTATION FOUND IN THE FIELD. SAID LINES ARE NOT THE RESULT OF A BOUNDARY SURVEY BY CSWJST2.

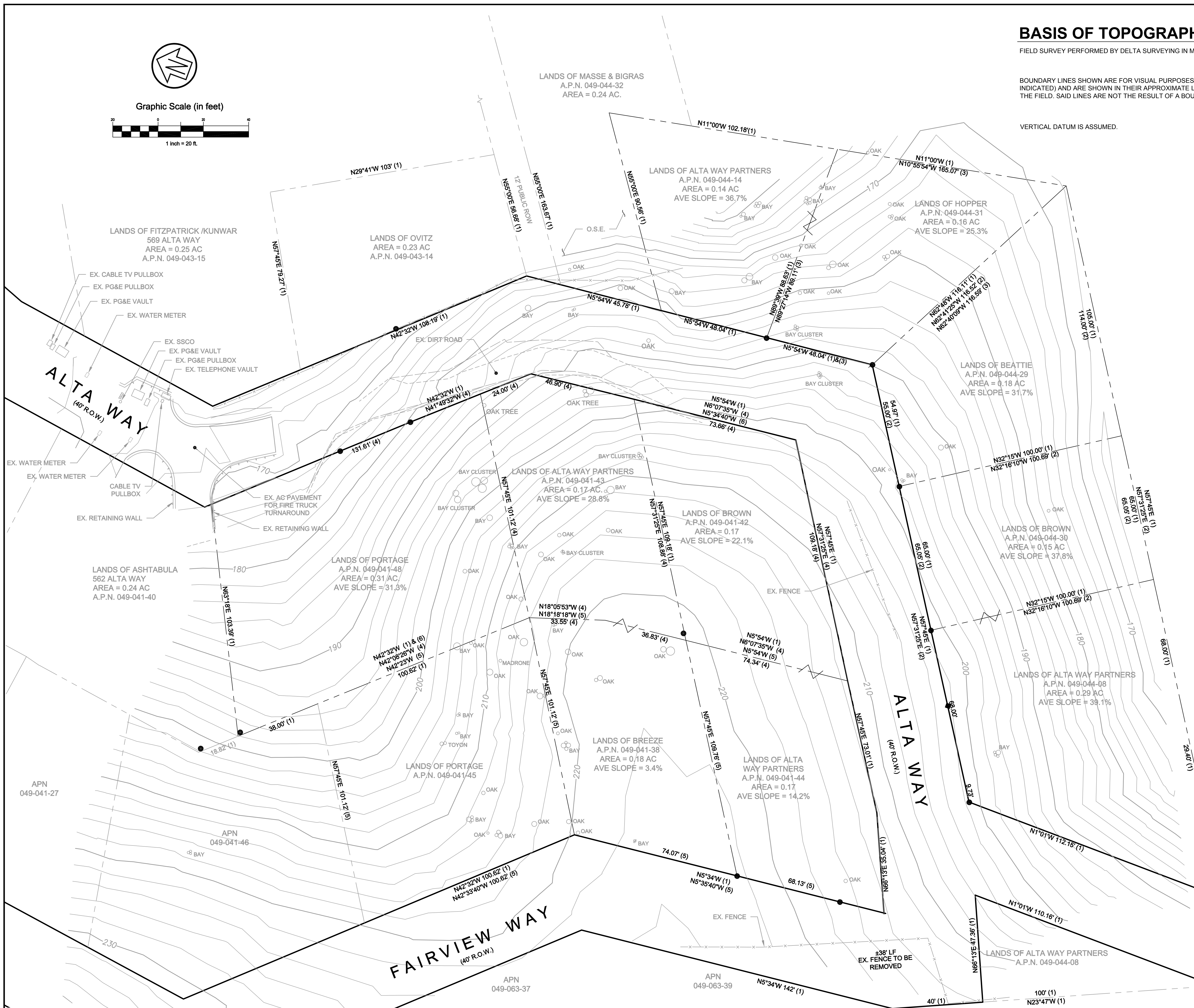
VERTICAL DATUM IS ASSUMED.

NOTE:

TREES SHOWN ON THIS PLAN ARE FROM A TREE STUDY BY WRA ENVIRONMENTAL CONSULTANTS DATED 2/9/2016. FOR TREE SIZE AND CONDITION SEE THE ARBORIST REPORT.

- (1) BOOK 5 OF MAPS PAGE 5
- (2) BOOK 17 OF SURVEYS PAGE 51
- (3) BOOK 2007 OF SURVEYS PAGE 109
- (4) BOOK 2005 OF SURVEYS PAGE 113
- (5) BOOK 2003 OF SURVEYS PAGE 144
- (6) BOOK 2002 OF MAPS PAGE 44

Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS



LINETYPES

EXISTING	DESCRIPTION
---	LOT 42 PROPERTY LINE
- - - -	OFFSITE PROPERTY LINE
— 30 —	CONTOUR - MAJOR
— 10 —	CONTOUR - MINOR
— x — x — x —	RIGHT-OF-WAY
- - - - -	FENCE
- - - - -	GRADE BREAK

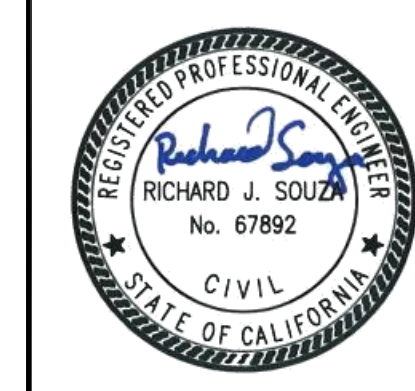
SYMBOLS

EXISTING	DESCRIPTION
○ SSCO	SANITARY SEWER - CLEANOUT
○ SDCO	STORM DRAINAGE - CLEANOUT
⊗	WATER METER

ALTA WAY GRADING PERMIT PLAN SET EXISTING CONDITIONS PLAN TOPOGRAPHY MAP ALTA WAY, MILL VALLEY

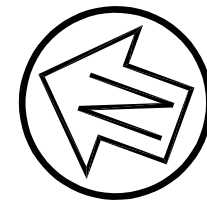
City Of
Mill Valley
County Of
Marin
State Of
California

Prepared Under the Direction of:

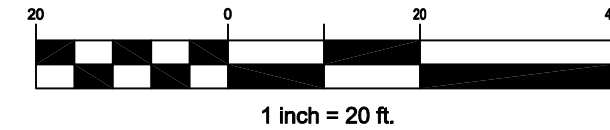


Sheet C2.0

Scale: 1 INCH = 20 FT.
Date: August 21, 2019
Project Number: 5.1434.00
Plan File: D-5286.02



Graphic Scale (in feet)



BASIS OF TOPOGRAPHY

FIELD SURVEY PERFORMED BY DELTA SURVEYING IN MAY & JUNE 2015.

BOUNDARY LINES SHOWN ARE FOR VISUAL PURPOSES ONLY BASED ON RETRACEMENTS OF RECORD MAPS (AS INDICATED) AND ARE SHOWN IN THEIR APPROXIMATE LOCATIONS RELATIVE TO EXISTING MONUMENTATION FOUND IN THE FIELD. SAID LINES ARE NOT THE RESULT OF A BOUNDARY SURVEY BY CSW|ST2.

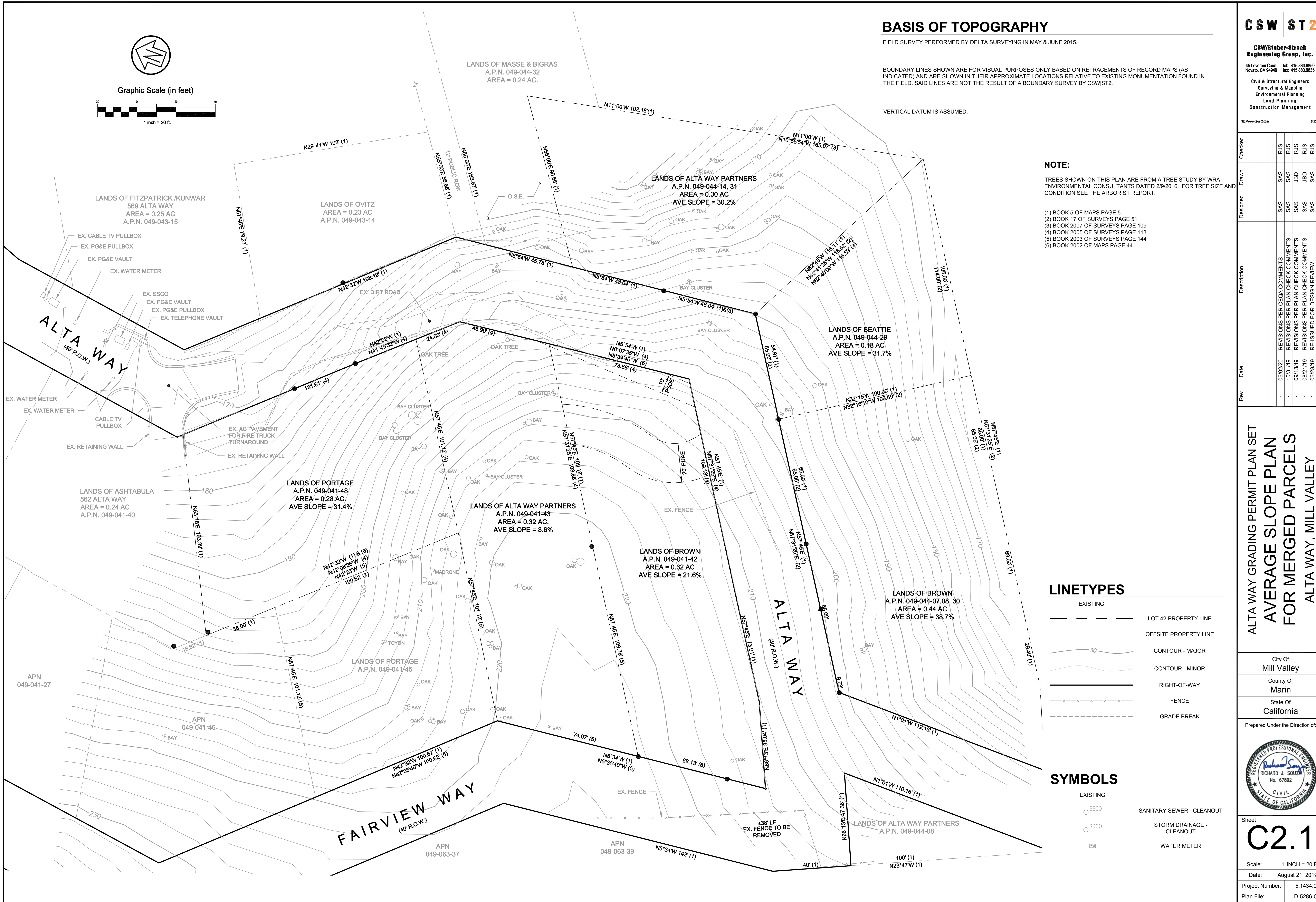
VERTICAL DATUM IS ASSUMED.

Rev	Date	Description	Designed	Drawn	Checked
1	06/02/20	REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
2	10/31/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
3	09/13/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
4	08/21/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
5	06/28/19	RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
6	04/30/19	ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

NOTE:

TREES SHOWN ON THIS PLAN ARE FROM A TREE STUDY BY WRA ENVIRONMENTAL CONSULTANTS DATED 2/9/2016. FOR TREE SIZE AND CONDITION SEE THE ARBORIST REPORT.

- (1) BOOK 5 OF MAPS PAGE 5
- (2) BOOK 17 OF SURVEYS PAGE 51
- (3) BOOK 2007 OF SURVEYS PAGE 109
- (4) BOOK 2005 OF SURVEYS PAGE 113
- (5) BOOK 2003 OF SURVEYS PAGE 144
- (6) BOOK 2002 OF MAPS PAGE 44



LINETYPES

	EXISTING	LOT 42 PROPERTY LINE
	OFFSITE PROPERTY LINE	
	CONTOUR - MAJOR	
	CONTOUR - MINOR	
	RIGHT-OF-WAY	
	FENCE	
	GRADE BREAK	

SYMBOLS

	EXISTING	SANITARY SEWER - CLEANOUT
		STORM DRAINAGE - CLEANOUT
		WATER METER

ALTA WAY GRADING PERMIT PLAN SET AVERAGE SLOPE PLAN FOR MERGED PARCELS ALTA WAY, MILL VALLEY

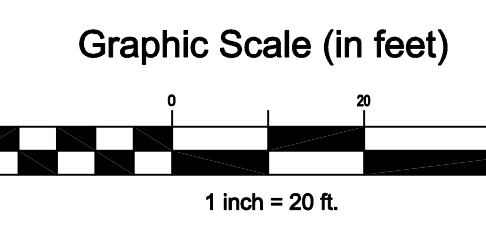
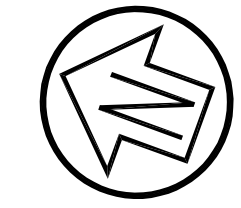
City Of
Mill Valley
County Of
Marin
State Of
California

Prepared Under the Direction of:

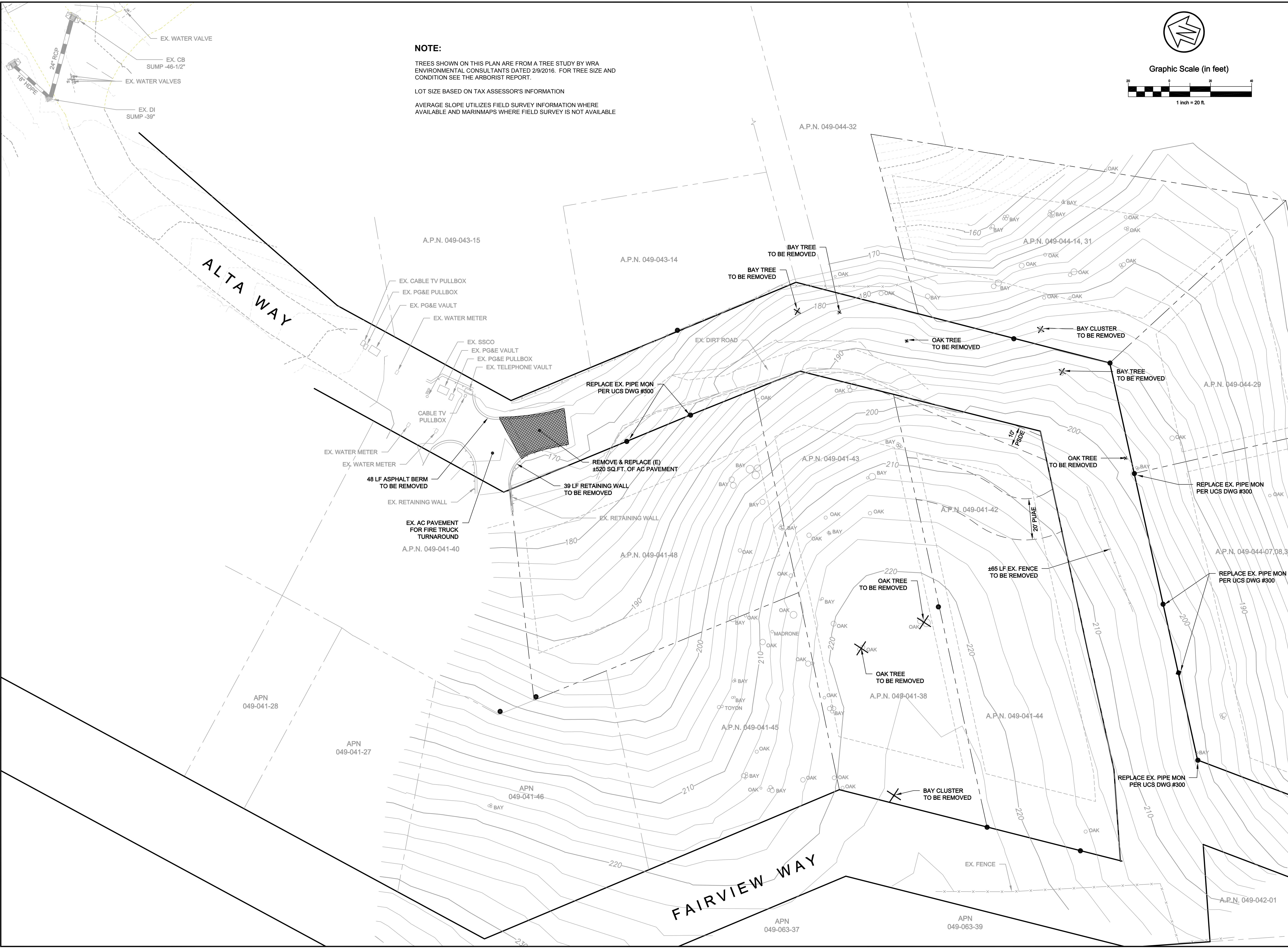


Sheet C2.1

Scale: 1 INCH = 20 FT.
Date: August 21, 2019
Project Number: 5.1434.00
Plan File: D-5286.02



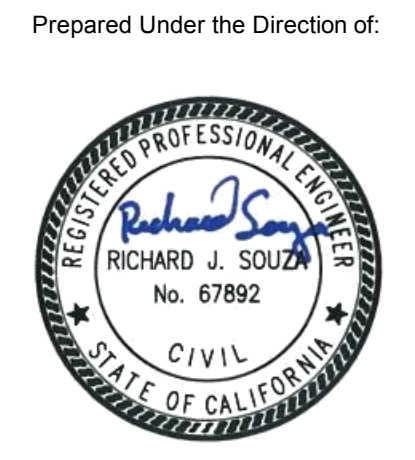
NOTE:
 TREES SHOWN ON THIS PLAN ARE FROM A TREE STUDY BY WRA ENVIRONMENTAL CONSULTANTS DATED 2/9/2016. FOR TREE SIZE AND CONDITION SEE THE ARBORIST REPORT.
 LOT SIZE BASED ON TAX ASSESSOR'S INFORMATION
 AVERAGE SLOPE UTILIZES FIELD SURVEY INFORMATION WHERE AVAILABLE AND MARINMAPS WHERE FIELD SURVEY IS NOT AVAILABLE



Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

ALTA WAY GRADING PERMIT PLAN SET
DEMOLITION PLAN
ALTA WAY, MILL VALLEY

City Of
Mill Valley
 County Of
Marin
 State Of
California



Sheet
C3.0
 Scale: 1 inch = 20 ft.
 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.03

GRADING QUANTITIES

IMPROVEMENT	CUT (CY)	FILL (CY)	NET (CY)
ROAD	1520	500	1020 (CUT)
FILL PAD	0	1020	1020 (FILL)
TOTAL	1520	1520	0

GRADING NOTES

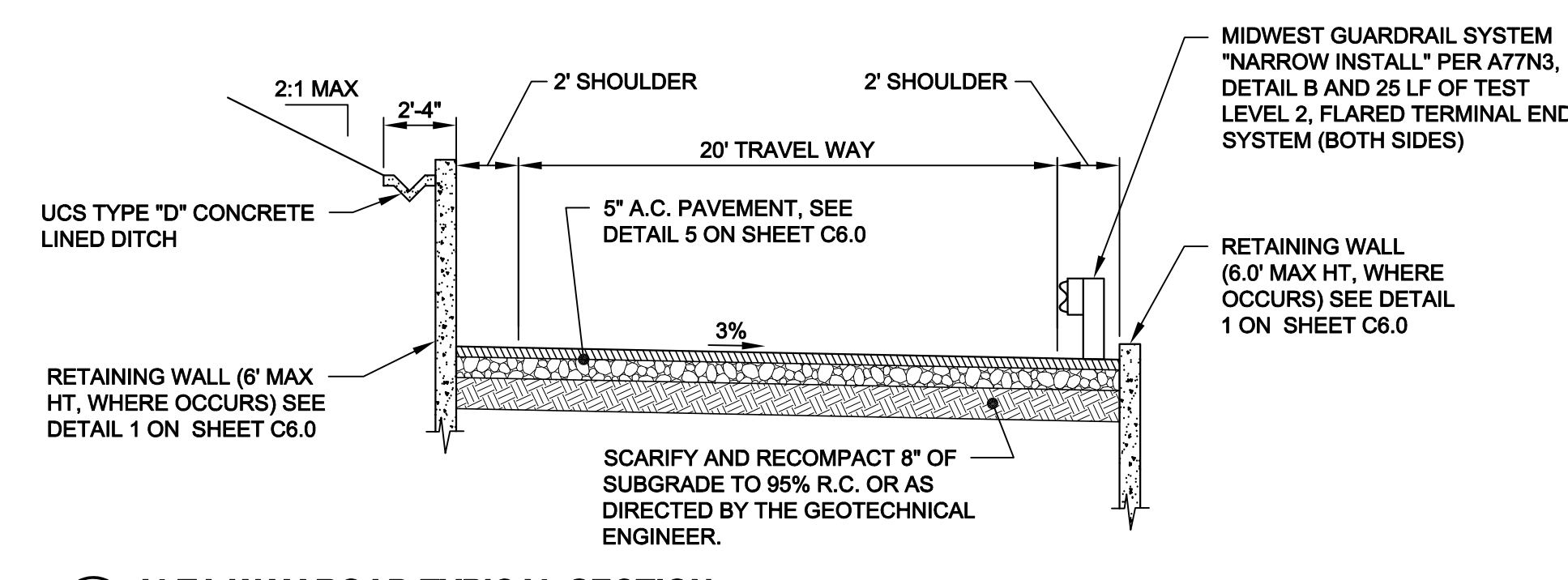
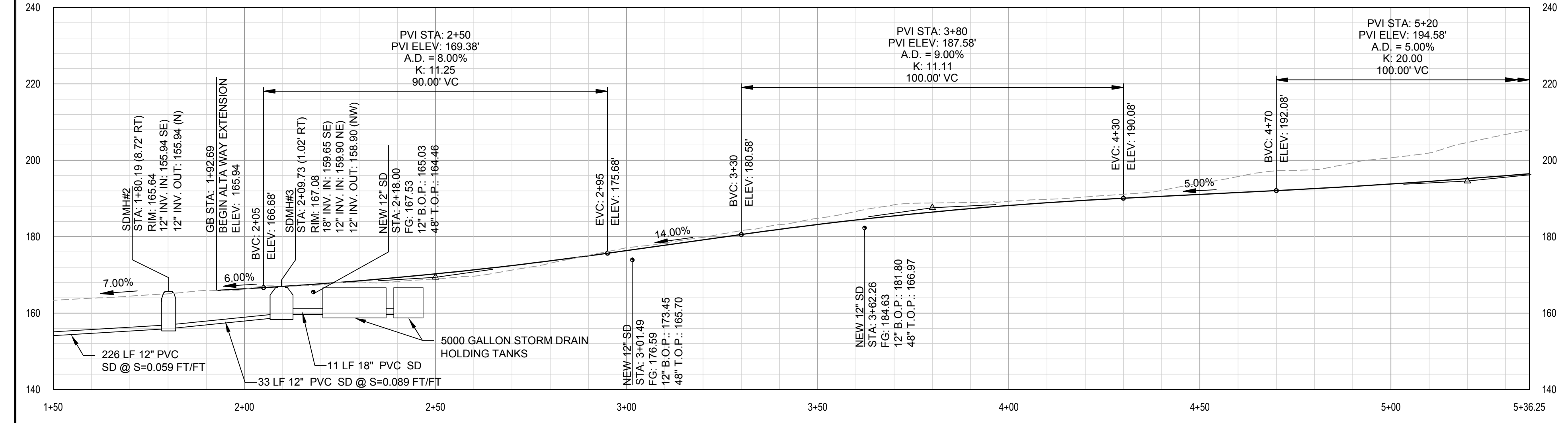
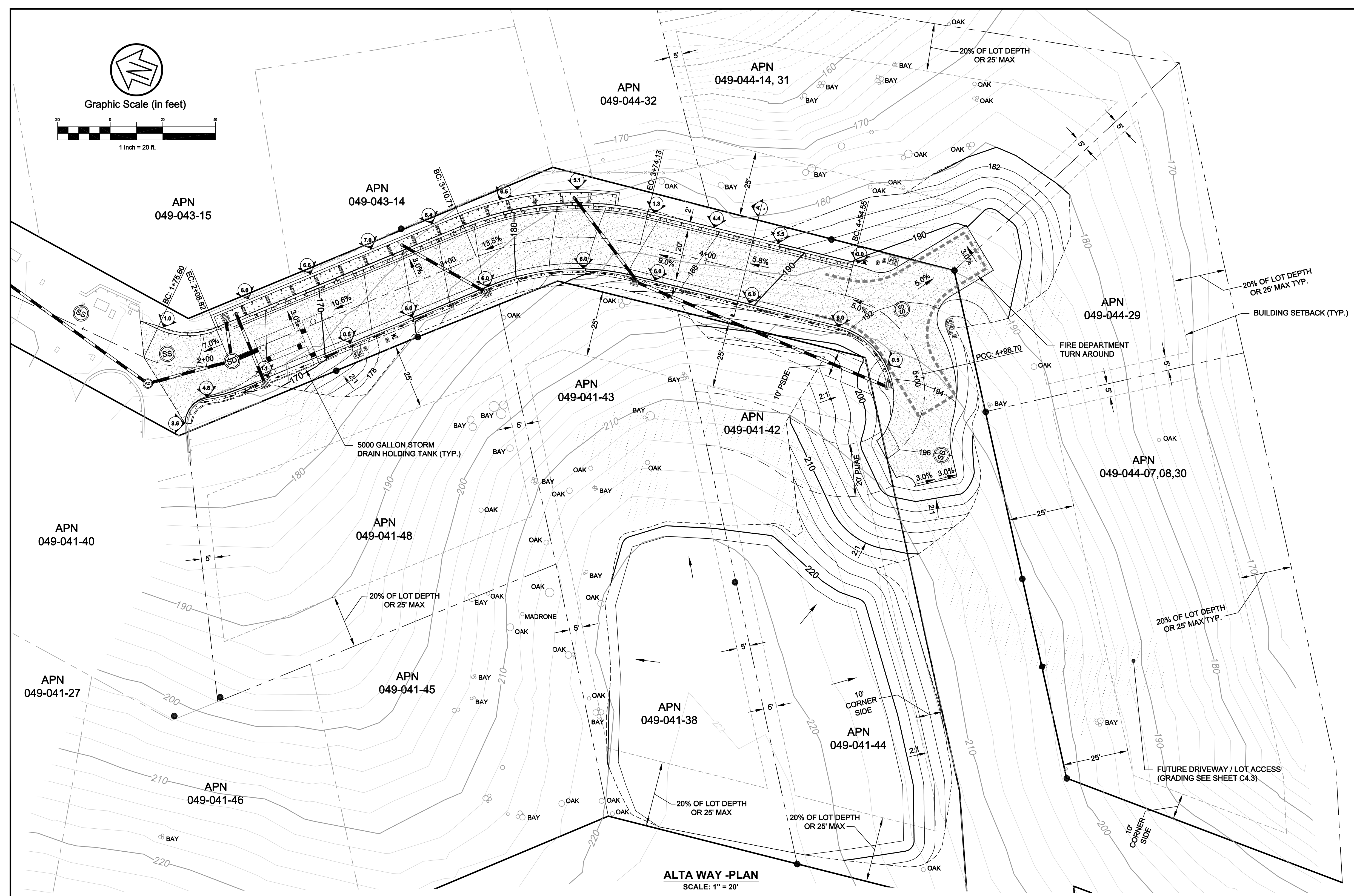
- PROPOSED FINISH GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN.
- THE EARTHWORK QUANTITIES ABOVE HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR FOOTINGS, TRENCH SPOILS, BULKING OR SHRINKAGE, OVER-EXCAVATION AND RE-COMPACTION, AND THE ROADWAY SECTION.
- ALL FILL SLOPES SHALL BE CONSTRUCTED PER THE FILL SLOPE DETAIL PLATE 1a IN THE P.J.C. & ASSOCIATES, INC. GEOTECHNICAL REPORT TITLED "GEOTECHNICAL INVESTIGATION PROPOSED RESIDENCE AND ROADWAY ALTA WAY, LOT 42, MILL VALLEY CALIFORNIA" DATED JANUARY 20, 2016.

IMPROVEMENT QUANTITIES

Description	Quantity
ASPHALT PAVEMENT (9420 SF) SEE DETAIL 5 ON SHEET C6.0	9420 SF
UCS TYPE "D" CONCRETE LINED DITCH (386 LF)	386 LF
GUARDRAIL (250 LF)	250 LF
RETAINING WALL RETAINED HT. > 4' (89 LF)	89 LF
RETAINED HT. 4' - 6' (463 LF)	463 LF

NOTE: SEE SHEET C4.3 FOR FUTURE IMPROVEMENTS FEASIBILITY PLAN

Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS



ALTA WAY GRADING PERMIT PLAN SET
PLAN & PROFILE
 ALTA WAY, MILL VALLEY

City Of
Mill Valley
 County Of
Marin
 State Of
California

Prepared Under the Direction of:

Richard J. Souza
 No. 67892
 CIVIL
 STATE OF CALIFORNIA

Sheet
C4.0
 Scale: 1" = 20'
 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.04


ALTA WAY ROAD TYPICAL SECTION
 SCALE: NTS

ALTA WAY PROFILE
 SCALE: HOR. 1" = 20' VERT. 1" = 30'

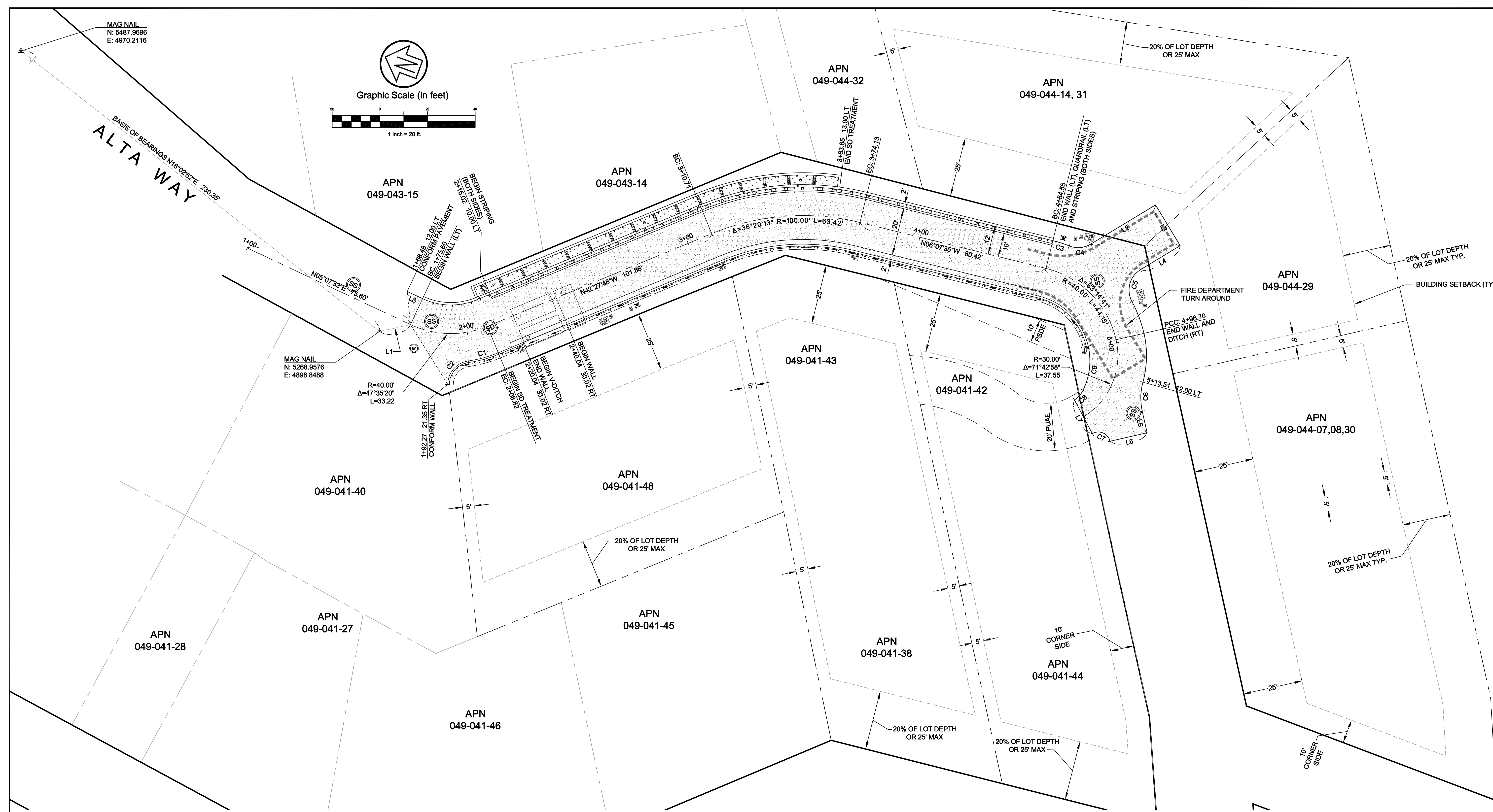
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-	09/13/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	08/21/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	06/28/19	RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
-	04/30/19	ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

ALTA WAY GRADING PERMIT PLAN SET
HORIZONTAL LAYOUT PLAN
 ALTA WAY, MILL VALLEY

City Of
 Mill Valley
 County Of
 Marin
 State Of
 California

Prepared Under the Direction of:


Sheet
C4.1
 Scale: 1" = 20'
 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.04



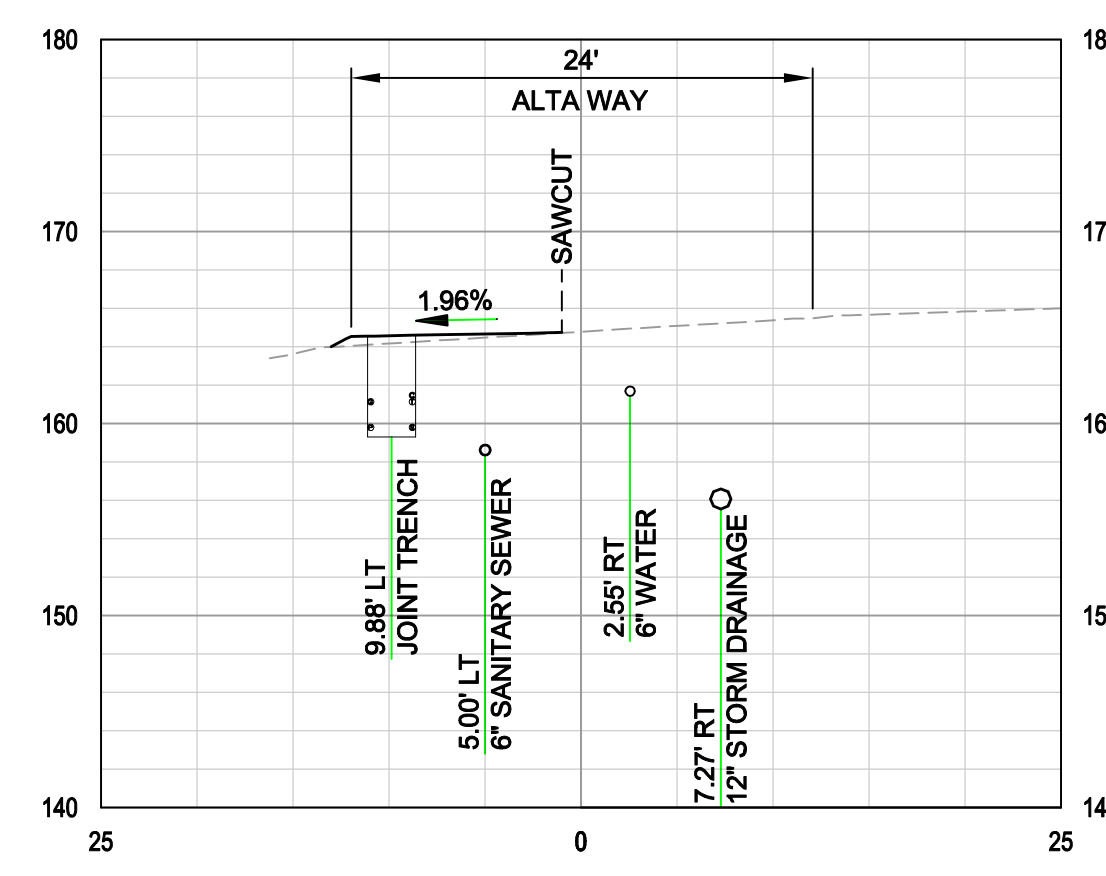
ALTA WAY -PLAN
 SCALE: 1" = 20'

CURVE TABLE

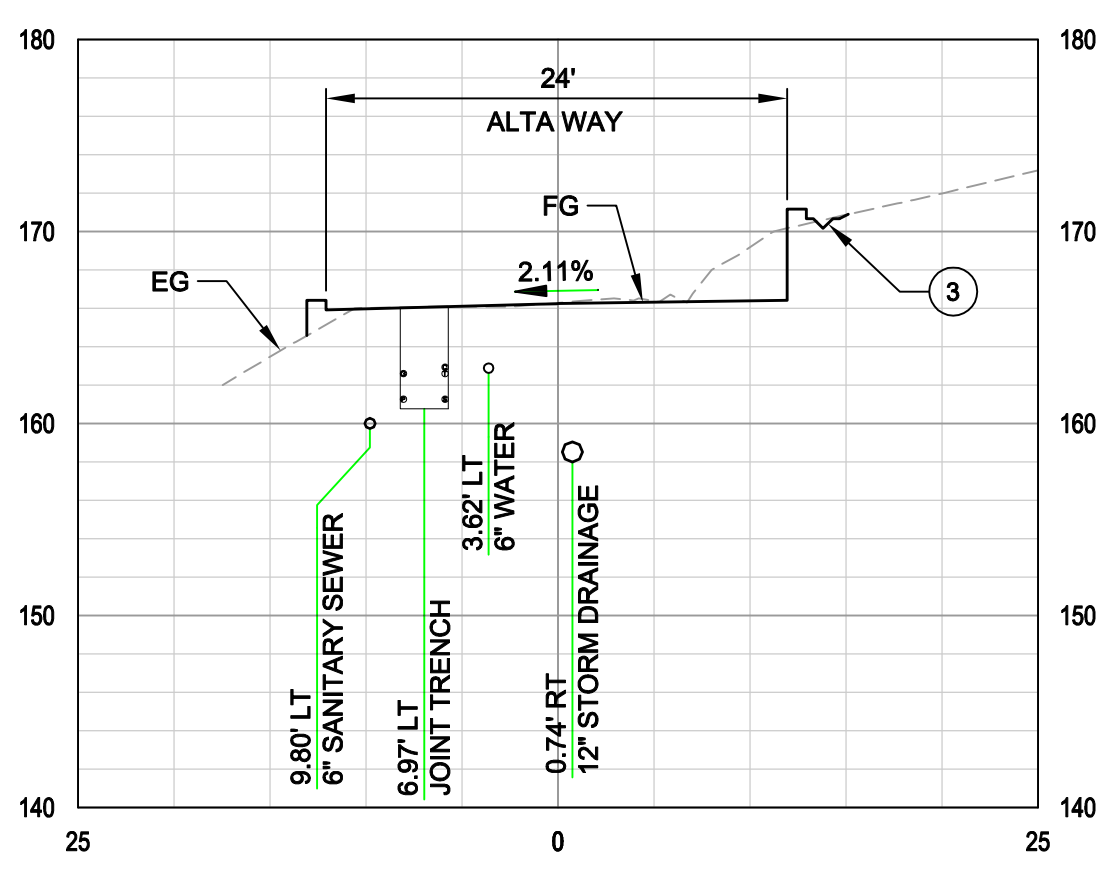
TAG	RADIUS	LENGTH	DELTA
C1	52.00'	13.09'	014°25'38"
C2	10.00'	14.25'	081°38'26"
C3	52.00'	7.25'	007°59'04"
C4	10.00'	9.25'	052°59'04"
C5	10.00'	15.28'	087°31'41"
C6	25.00'	12.34'	028°17'08"
C7	5.00'	9.39'	107°35'50"
C8	10.00'	5.51'	031°35'11"
C9	28.00'	19.03'	038°56'33"

LINE TABLE

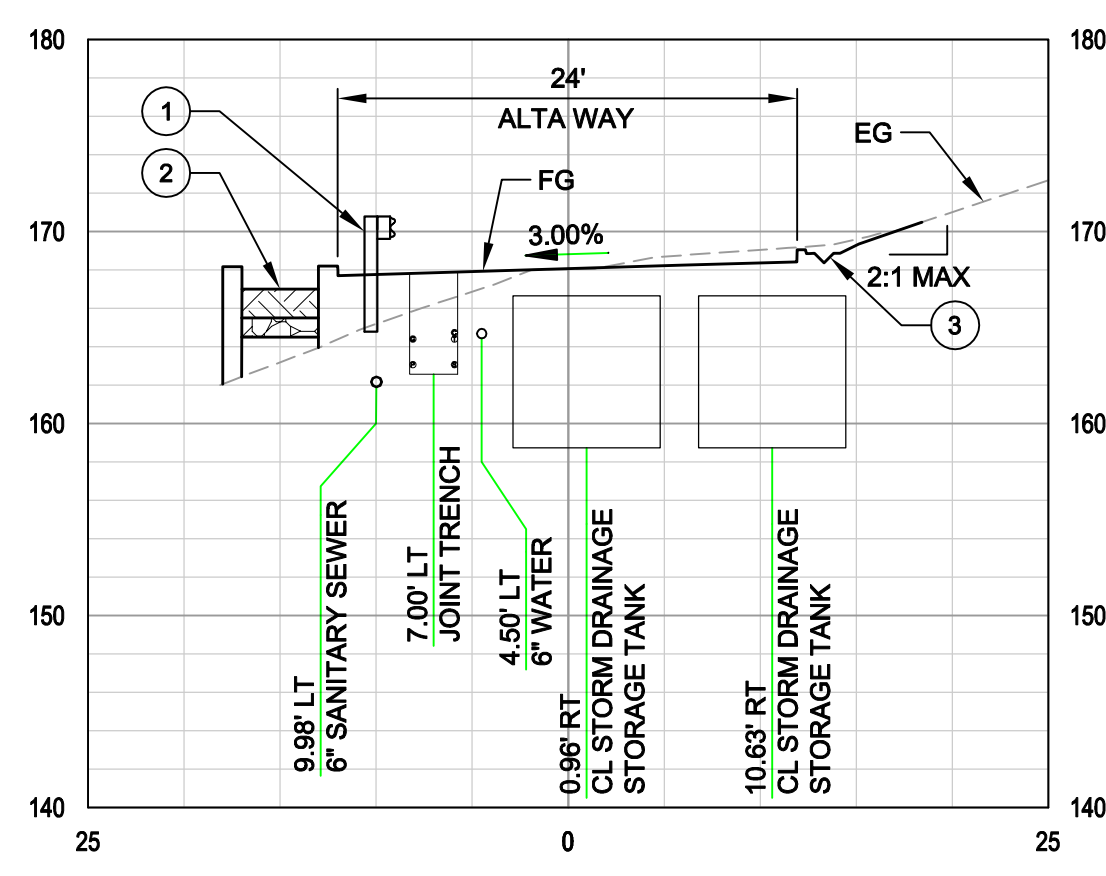
TAG	BEARING	DISTANCE
L1	S32°40'10"E	13.30'
L2	S51°07'35"E	31.91'
L3	S38°52'25"W	20.00'
L4	S51°07'35"E	19.47'
L5	N57°07'06"E	9.24'
L6	S32°52'54"E	16.00'
L7	S42°05'35"W	16.03'
L8	S05°07'32"W	7.12'



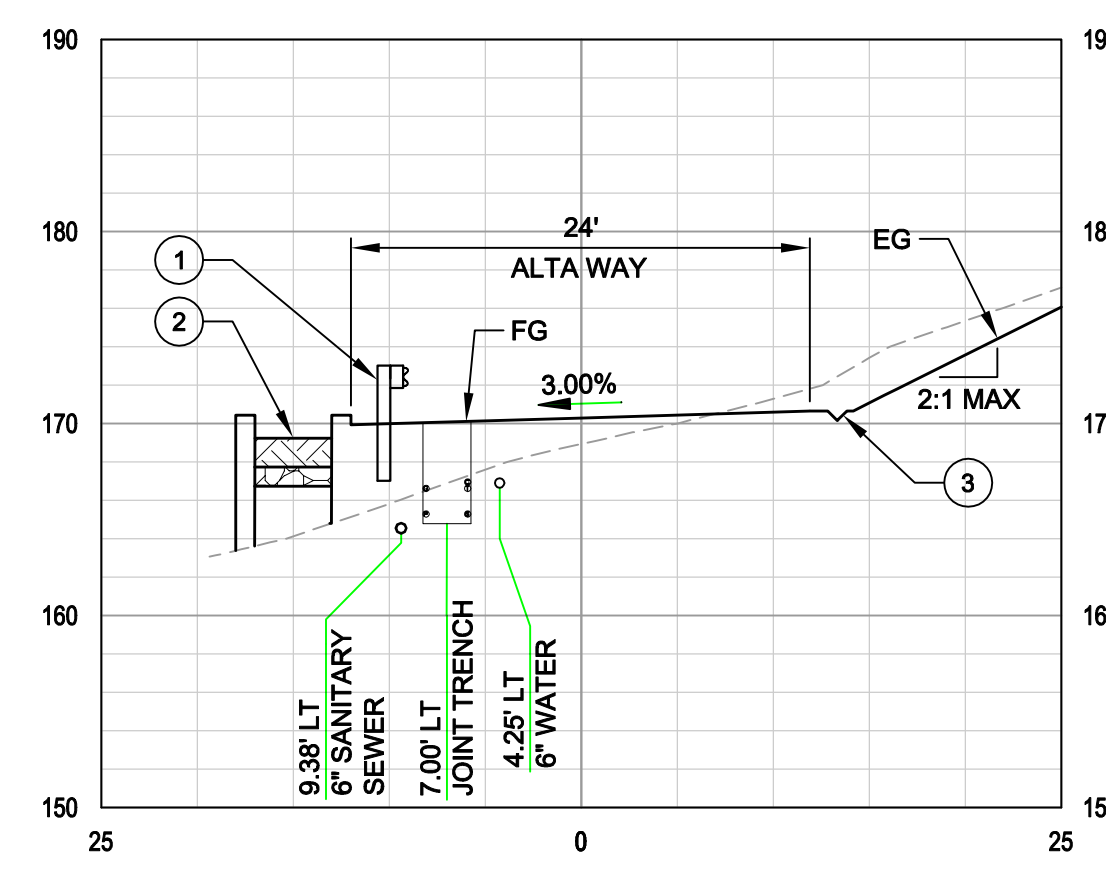
ALTA WAY 1+75
 SCALE: HOR. 1" = 10' VERT. 1" = 10'



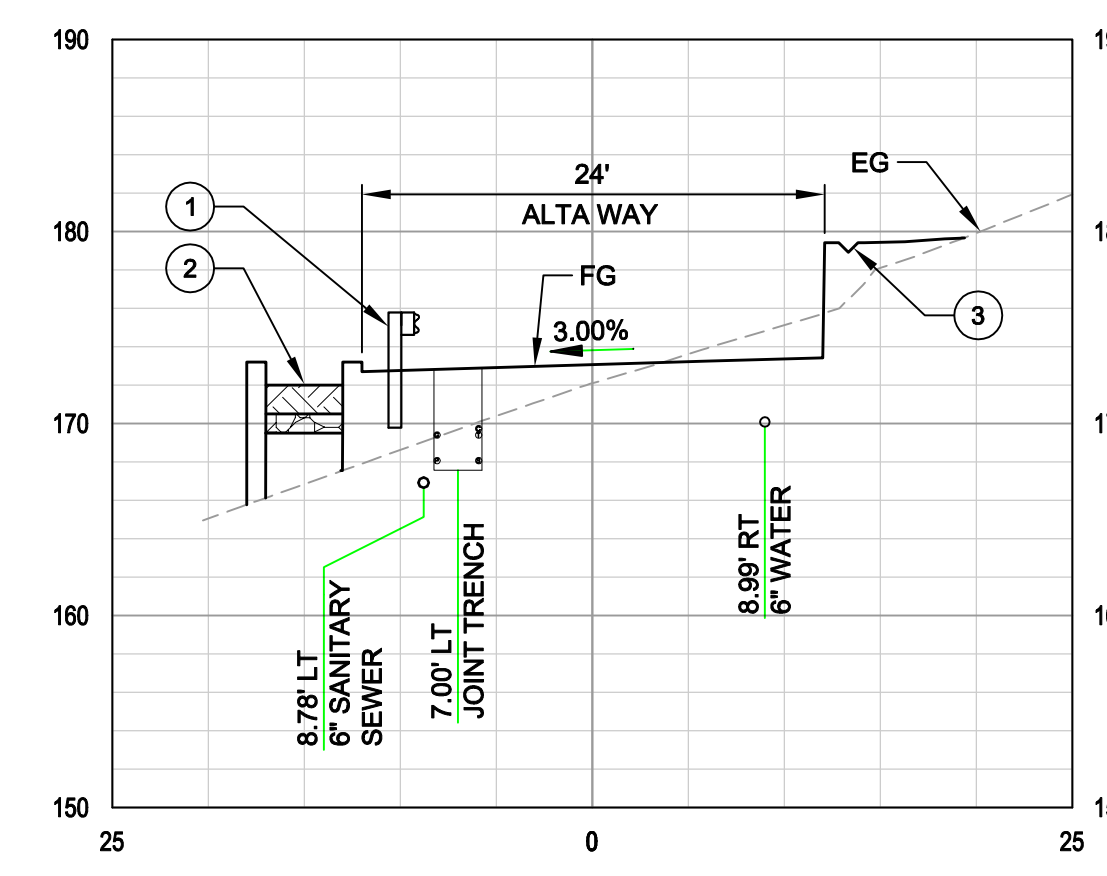
ALTA WAY 2+00
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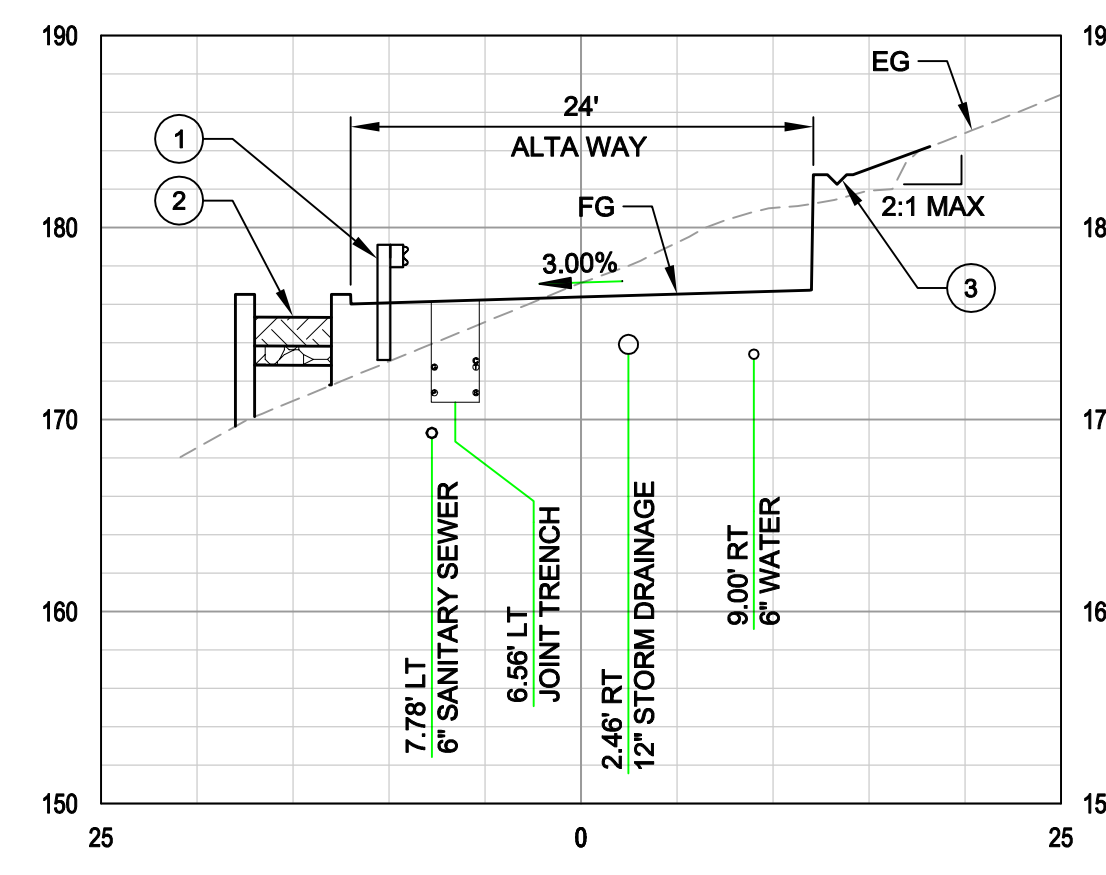
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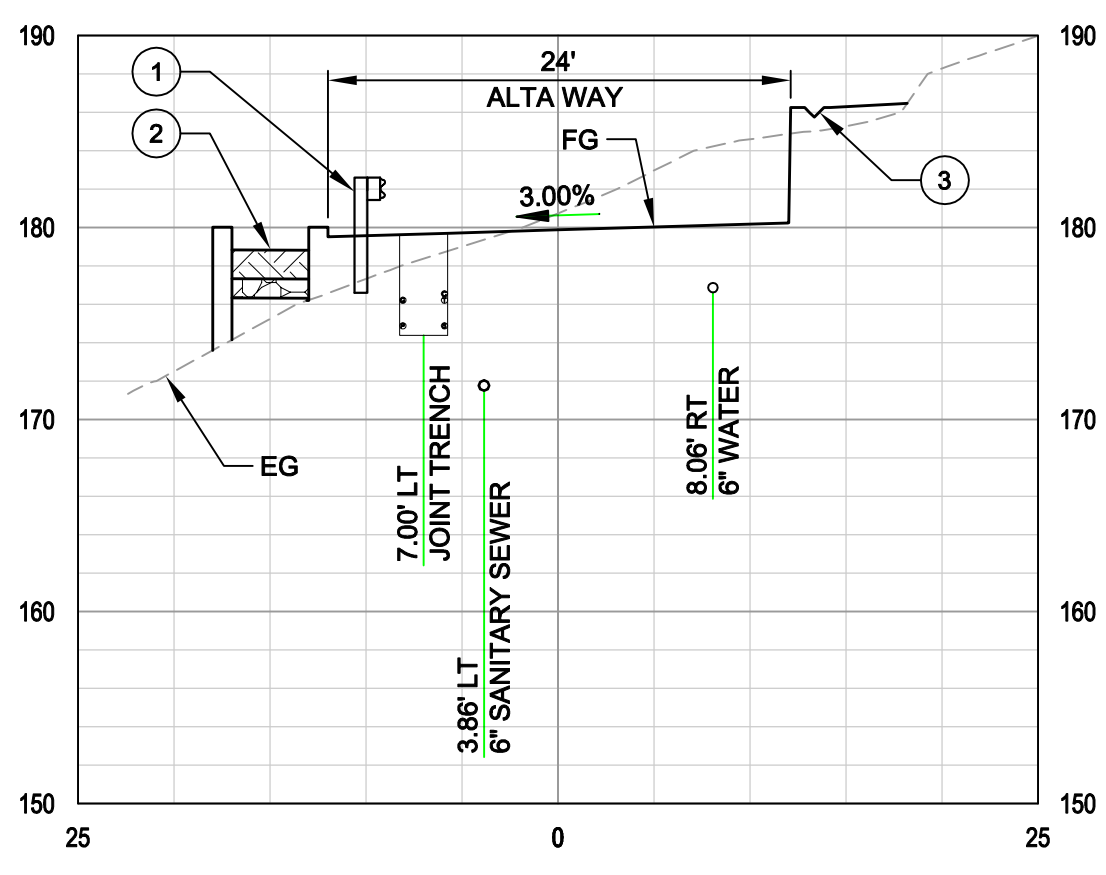
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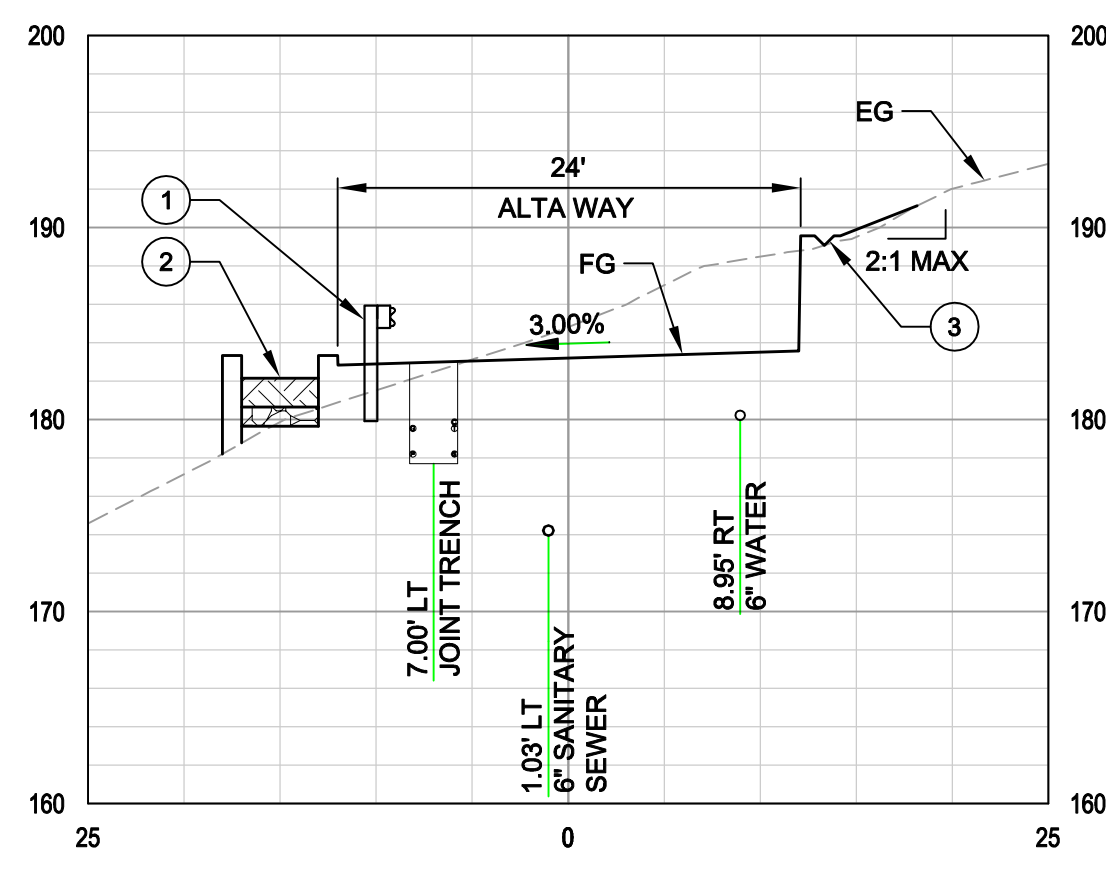
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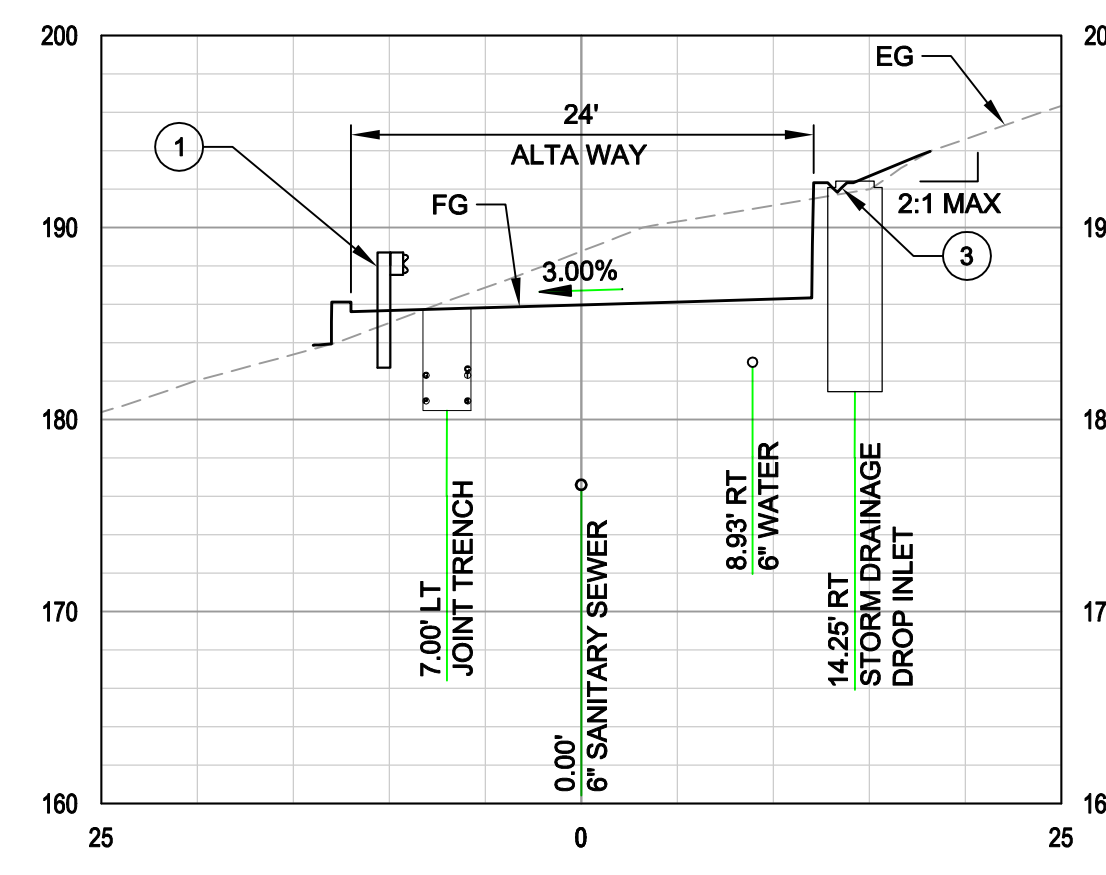
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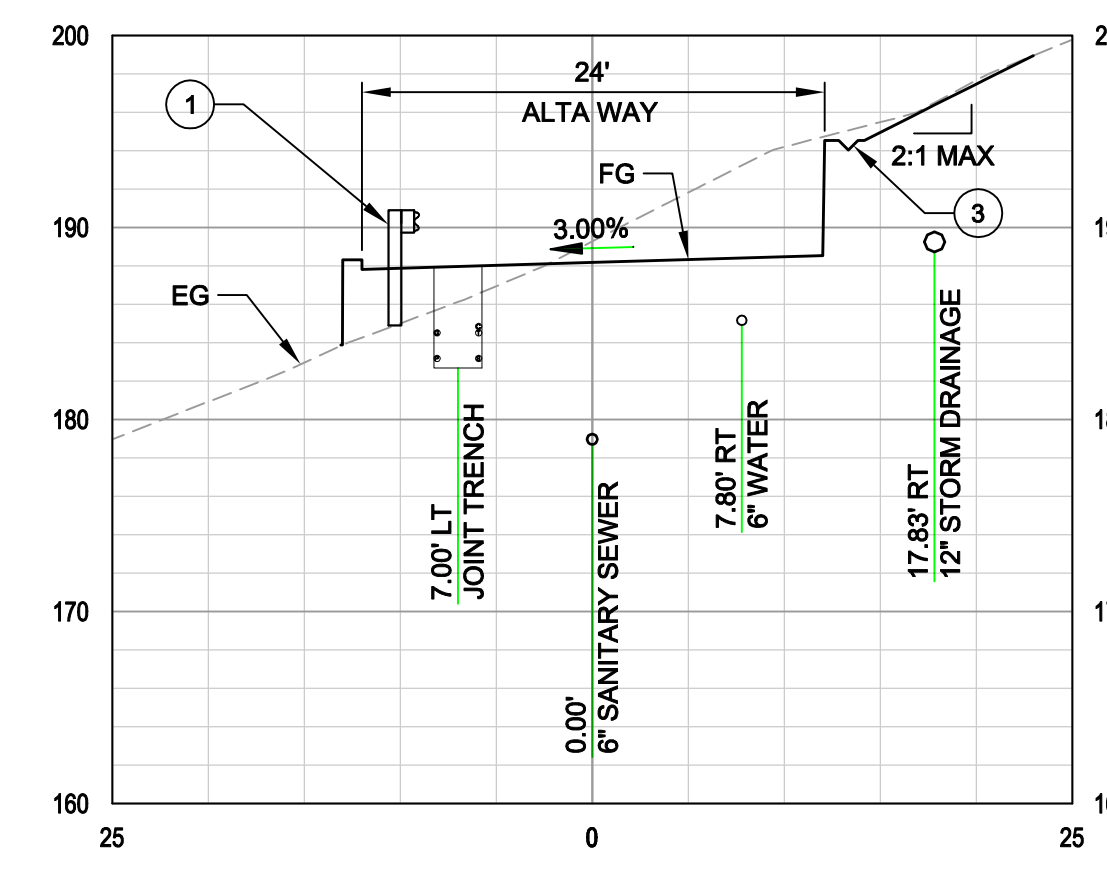
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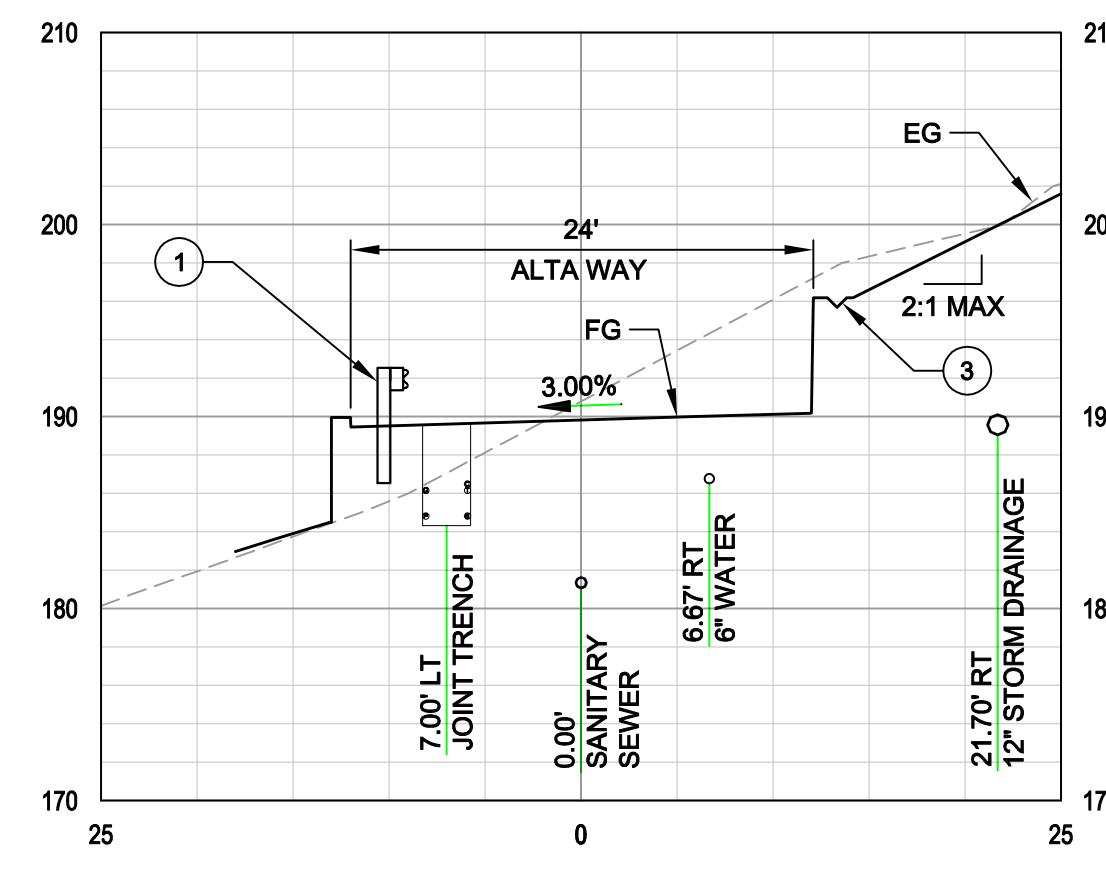
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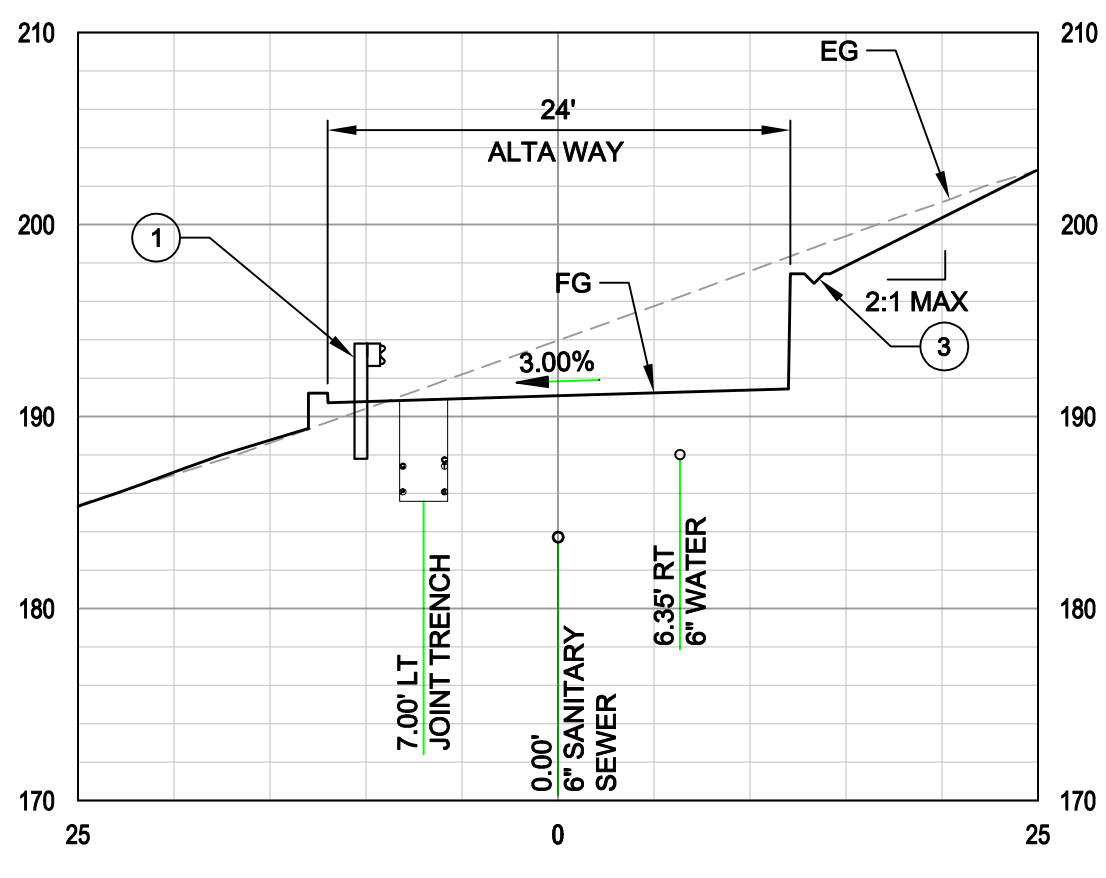
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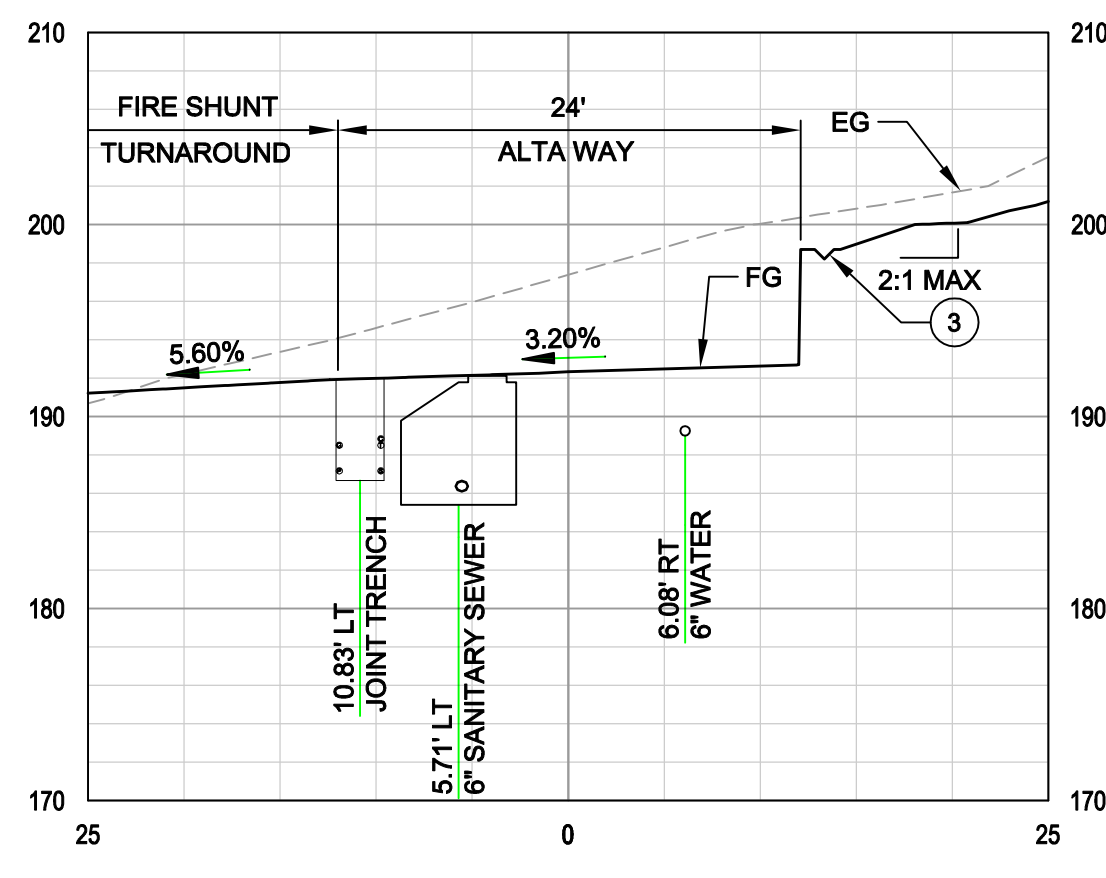
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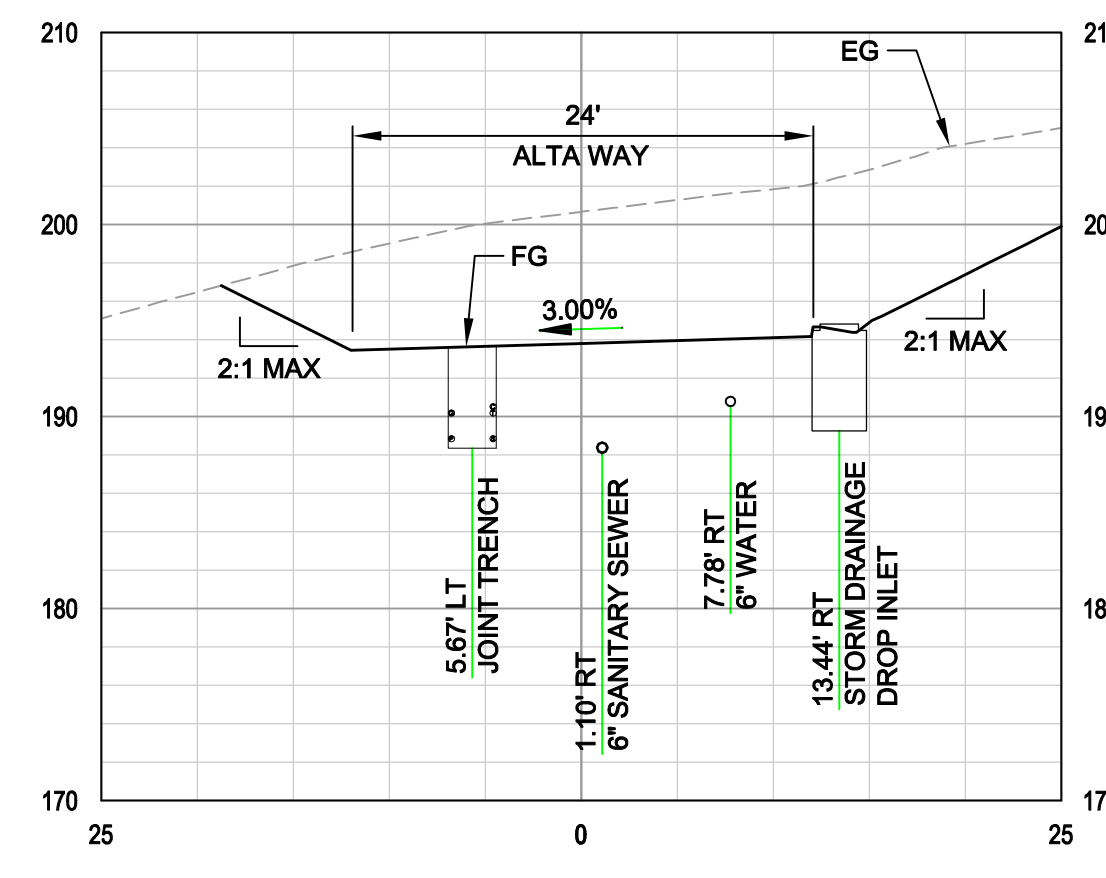
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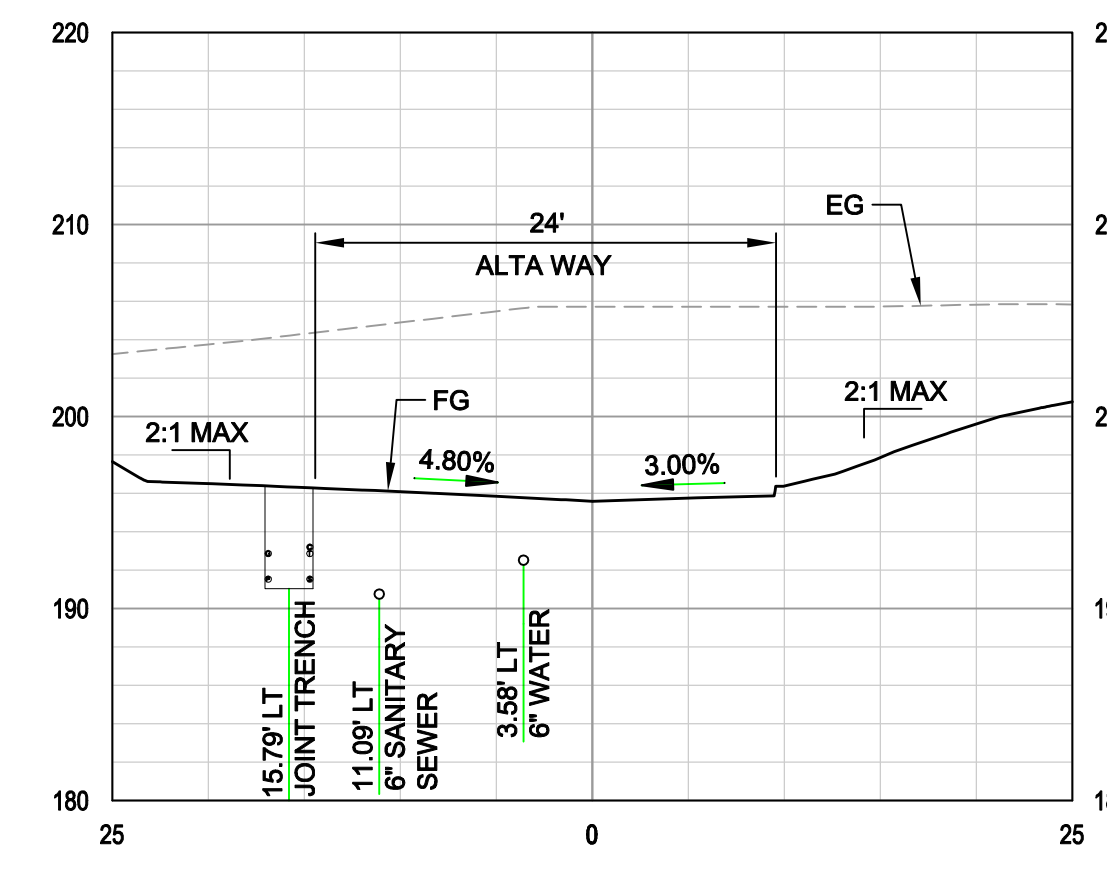
ALTA WAY 4+50
 SCALE: HOR. 1" = 10' VERT. 1" = 10'



ALTA WAY 4+75
 SCALE: HOR. 1" = 10' VERT. 1" = 10'



ALTA WAY 5+00
 SCALE: HOR. 1" = 10' VERT. 1" = 10'



ALTA WAY 5+25
 SCALE: HOR. 1" = 10' VERT. 1" = 10'


KEYNOTES

- ① GUARDRAIL SYSTEM "NARROW INSTALL" PER A77N3, DETAIL B AND 25 LF OF TEST LEVEL 2, FLARED TERMINAL END SYSTEM (BOTH SIDES)
- ② BIORETENTION SWALE, SEE DETAIL 2, SHEET C6.0
- ③ UCS TYPE D CONCRETE LINED V-DITCH

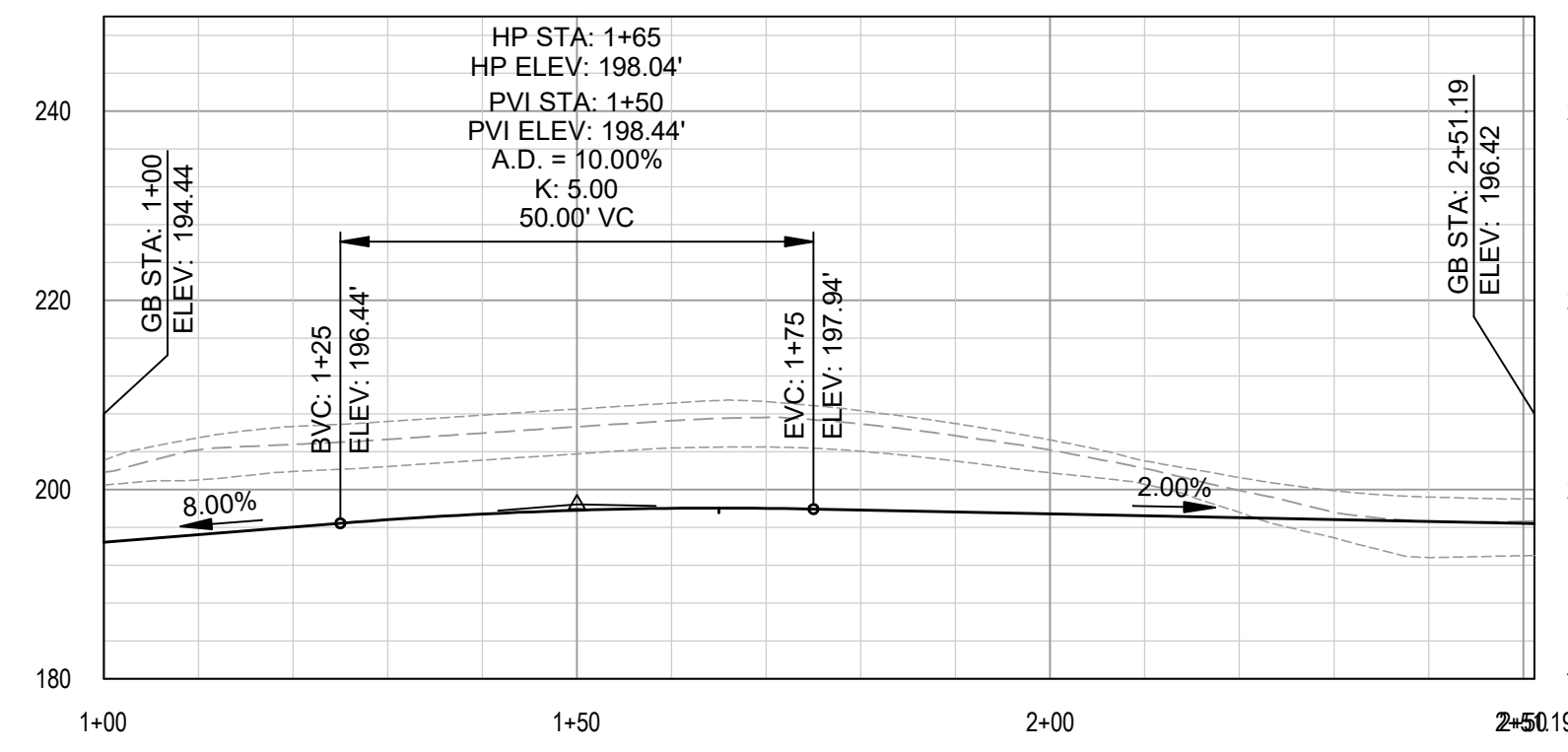
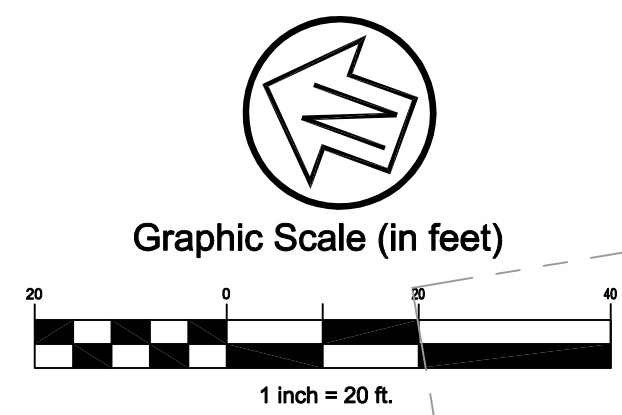
Rev	Date	Description	Designed	Drawn	Checked
-	-	REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
-	10/31/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	09/13/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	08/21/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	06/28/19	RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
-	04/30/19	ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

ALTA WAY GRADING PERMIT PLAN SET
SECTIONS
 ALTA WAY, MILL VALLEY

City Of
Mill Valley
 County Of
Marin
 State Of
California

Prepared Under the Direction of:


Sheet
C4.2
 Scale: 1" = 10'
 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.05



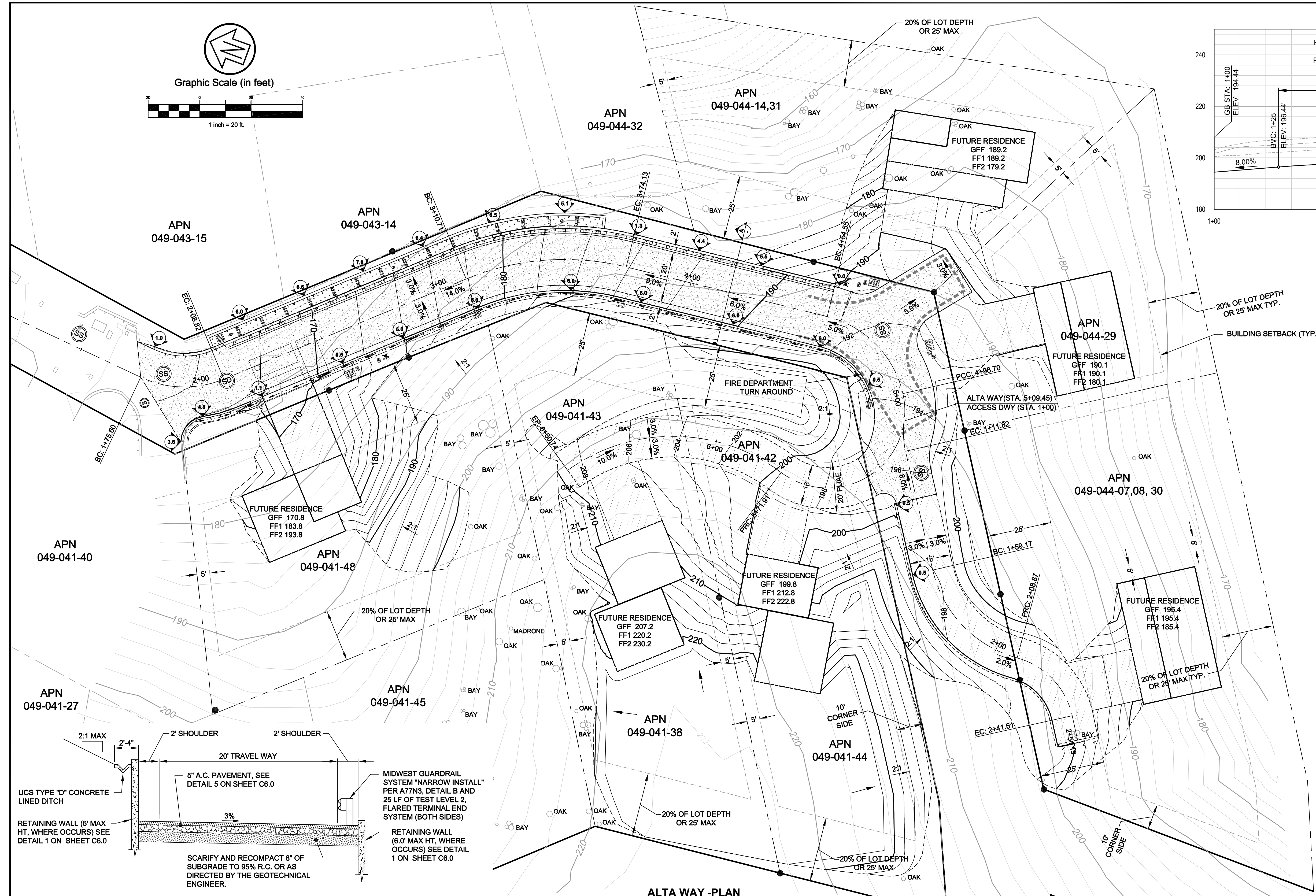
ACCESS DRIVEWAY PROFILE
 SCALE: HOR. 1" = 20' VERT. 1" = 20'

FUTURE GRADING QUANTITIES

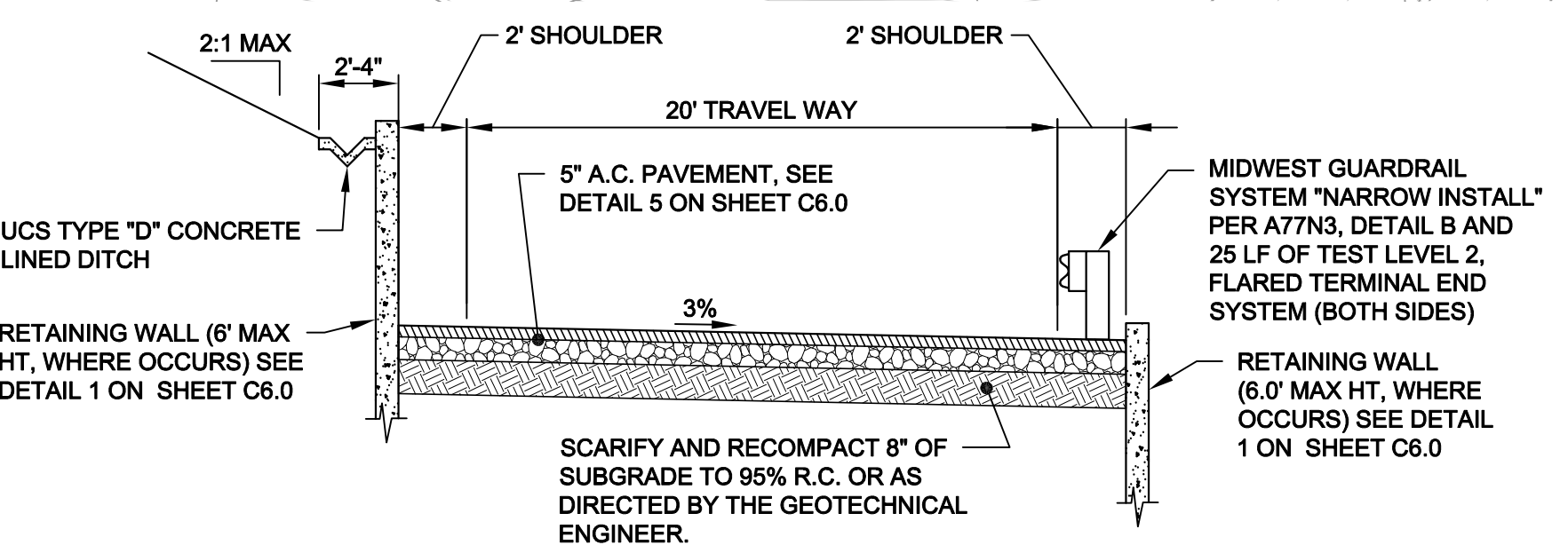
IMPROVEMENT	CUT (CY)	FILL (CY)	NET (CY)
ROAD	1520	500	1020 (CUT)
FILL PAD	0	1020	1020 (FILL)
FUTURE LOTS & ACCESS	4340	1210	3130 (CUT)
TOTAL	5860	2730	3130 (CUT)

IMPROVEMENT QUANTITIES

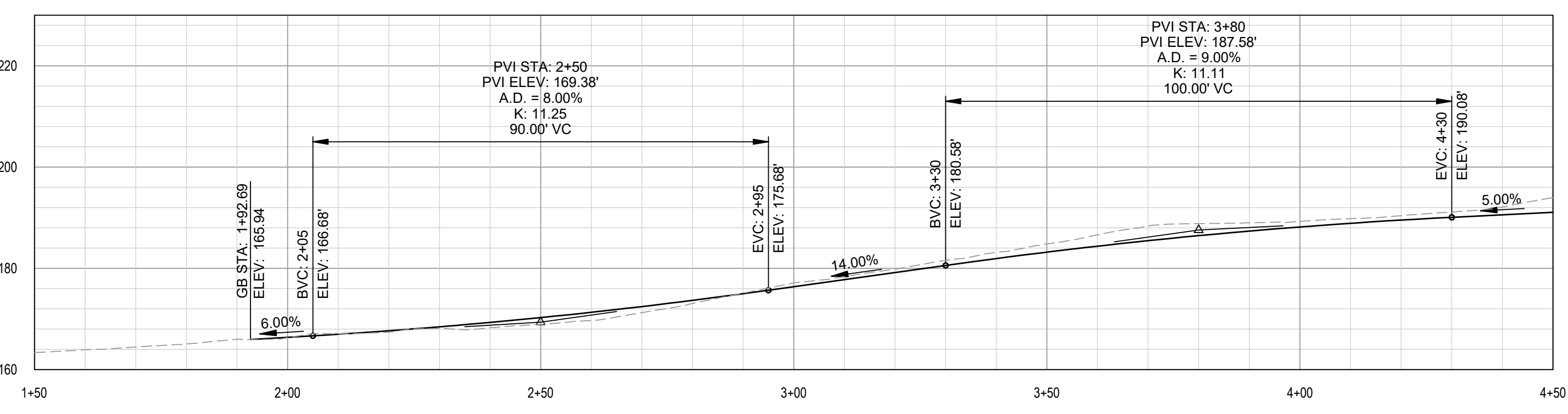
- ASPHALT PAVEMENT (13340 SF) SEE DETAIL 5 ON SHEET C6.0
- FUTURE DRIVEWAY (PERMEABLE)
- UCS TYPE "D" CONCRETE LINED DITCH (475 LF)
- GUARDRAIL (250 LF)
- RETAINING WALL
 RETAINED HT. > 4' (89 LF)
 RETAINED HT. 4' - 6' (600 LF)
- POTENTIAL LOT DRIVEWAY AND RESIDENCE FOOTPRINT



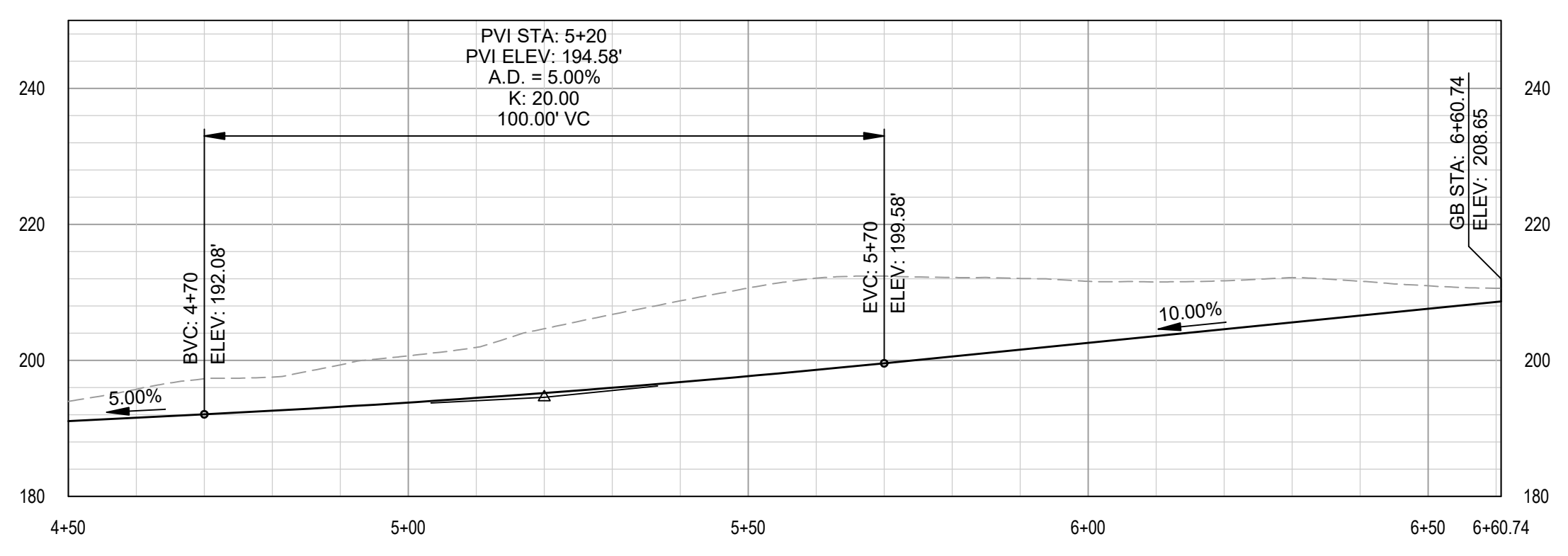
ALTA WAY - PLAN
 SCALE: 1" = 20'



ALTA WAY ROAD TYPICAL SECTION
 SCALE: NTS



ALTA WAY PROFILE (STA. 1+50 TO 4+50)
 SCALE: HOR. 1" = 20' VERT. 1" = 20'



ALTA WAY PROFILE (STA. 4+50 TO END)
 SCALE: HOR. 1" = 20' VERT. 1" = 20'

Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEDA COMMENTS	SAS	SAS	RJS
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

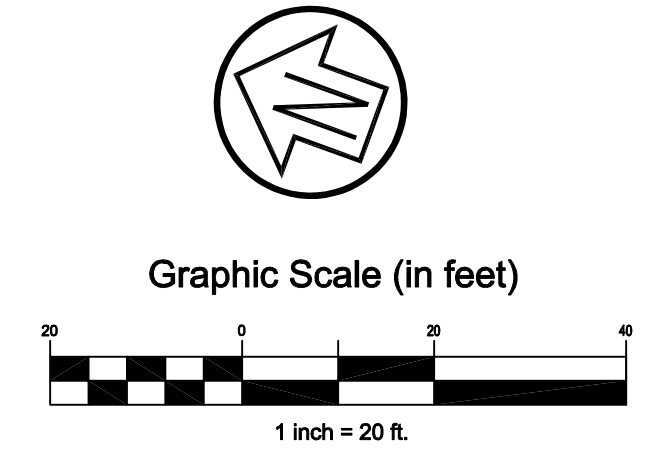
ALTA WAY GRADING PERMIT PLAN SET
FUTURE IMPROVEMENTS
FEASIBILITY PLAN
 ALTA WAY, MILL VALLEY

City Of
 Mill Valley
 County Of
 Marin
 State Of
 California

Prepared Under the Direction of:

 RICHARD J. SOUZA
 No. 67892
 CIVIL
 STATE OF CALIFORNIA

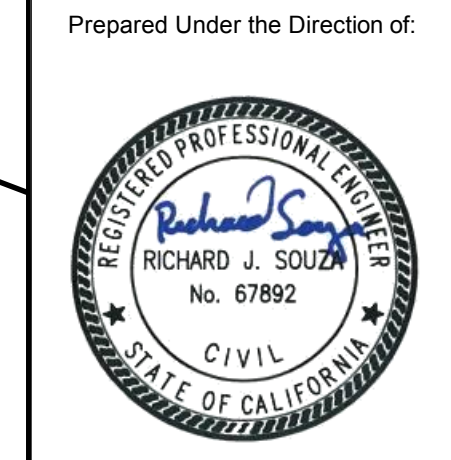
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 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.04



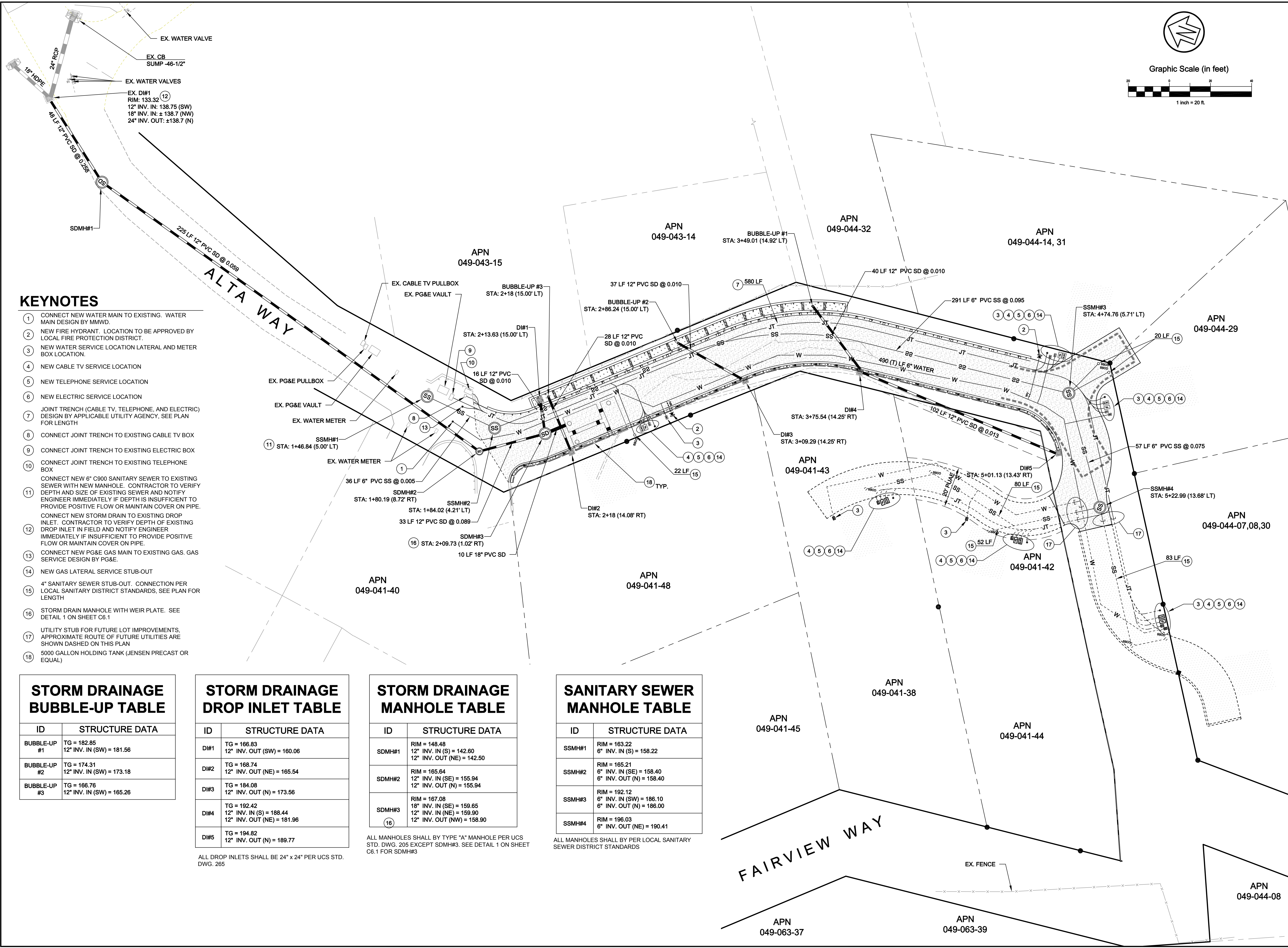
Rev	Date	Description	Designed	Drawn	Checked
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09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

ALTA WAY GRADING PERMIT PLAN SET
UTILITY & DRAINAGE PLAN
 ALTA WAY, MILL VALLEY

City Of
 Mill Valley
 County Of
 Marin
 State Of
 California



Prepared Under the Direction of:
 Sheet
C5.0
 Scale: 1 inch = 20 ft.
 Date: August 21, 2019
 Project Number: 5.1434.00
 Plan File: D-5286.08



KEYNOTES

- CONNECT NEW WATER MAIN TO EXISTING WATER MAIN DESIGN BY MMWD.
- NEW FIRE HYDRANT. LOCATION TO BE APPROVED BY LOCAL FIRE PROTECTION DISTRICT.
- NEW WATER SERVICE LOCATION LATERAL AND METER BOX LOCATION.
- NEW CABLE TV SERVICE LOCATION
- NEW TELEPHONE SERVICE LOCATION
- NEW ELECTRIC SERVICE LOCATION
- JOINT TRENCH (CABLE TV, TELEPHONE, AND ELECTRIC) DESIGN BY APPLICABLE UTILITY AGENCY, SEE PLAN FOR LENGTH
- CONNECT JOINT TRENCH TO EXISTING CABLE TV BOX
- CONNECT JOINT TRENCH TO EXISTING ELECTRIC BOX
- CONNECT JOINT TRENCH TO EXISTING TELEPHONE BOX
- CONNECT NEW 6" C900 SANITARY SEWER TO EXISTING SEWER WITH NEW MANHOLE. CONTRACTOR TO VERIFY DEPTH AND SIZE OF EXISTING SEWER AND NOTIFY ENGINEER IMMEDIATELY IF DEPTH IS INSUFFICIENT TO PROVIDE POSITIVE FLOW OR MAINTAIN COVER ON PIPE.
- CONNECT NEW STORM DRAIN TO EXISTING DROP INLET. CONTRACTOR TO VERIFY DEPTH OF EXISTING DROP INLET IN FIELD AND NOTIFY ENGINEER IMMEDIATELY IF INSUFFICIENT TO PROVIDE POSITIVE FLOW OR MAINTAIN COVER ON PIPE.
- CONNECT NEW PG&E GAS MAIN TO EXISTING GAS SERVICE DESIGN BY PG&E.
- NEW GAS LATERAL SERVICE STUB-OUT
- 4" SANITARY SEWER STUB-OUT. CONNECTION PER LOCAL SANITARY DISTRICT STANDARDS, SEE PLAN FOR LENGTH
- STORM DRAIN MANHOLE WITH WEIR PLATE. SEE DETAIL 1 ON SHEET C6.1
- UTILITY STUB FOR FUTURE LOT IMPROVEMENTS. APPROXIMATE ROUTE OF FUTURE UTILITIES ARE SHOWN DASHED ON THIS PLAN
- 5000 GALLON HOLDING TANK (JENSEN PRECAST OR EQUAL)

STORM DRAINAGE BUBBLE-UP TABLE

ID	STRUCTURE DATA
BUBBLE-UP #1	TG = 182.85 12" INV. IN (SW) = 181.56
BUBBLE-UP #2	TG = 174.31 12" INV. IN (SW) = 173.18
BUBBLE-UP #3	TG = 166.76 12" INV. IN (SW) = 165.26

STORM DRAINAGE DROP INLET TABLE

ID	STRUCTURE DATA
DI#1	TG = 166.83 12" INV. OUT (SW) = 160.06
DI#2	TG = 168.74 12" INV. OUT (NE) = 165.54
DI#3	TG = 184.08 12" INV. OUT (N) = 173.56
DI#4	TG = 192.42 12" INV. IN (S) = 188.44 12" INV. OUT (NE) = 181.96
DI#5	TG = 194.82 12" INV. OUT (N) = 189.77

ALL DROP INLETS SHALL BE 24" x 24" PER UCS STD. DWG. 265

STORM DRAINAGE MANHOLE TABLE

ID	STRUCTURE DATA
SDMH#1	RIM = 148.48 12" INV. IN (S) = 142.60 12" INV. OUT (NE) = 142.50
SDMH#2	RIM = 165.64 12" INV. IN (SE) = 155.94 12" INV. OUT (N) = 155.94
SDMH#3	RIM = 167.08 18" INV. IN (SE) = 159.65 12" INV. IN (NE) = 159.90 12" INV. OUT (NW) = 158.90

ALL MANHOLES SHALL BY TYPE "A" MANHOLE PER UCS STD. DWG. 205 EXCEPT SDMH#3. SEE DETAIL 1 ON SHEET C6.1 FOR SDMH#3

SANITARY SEWER MANHOLE TABLE

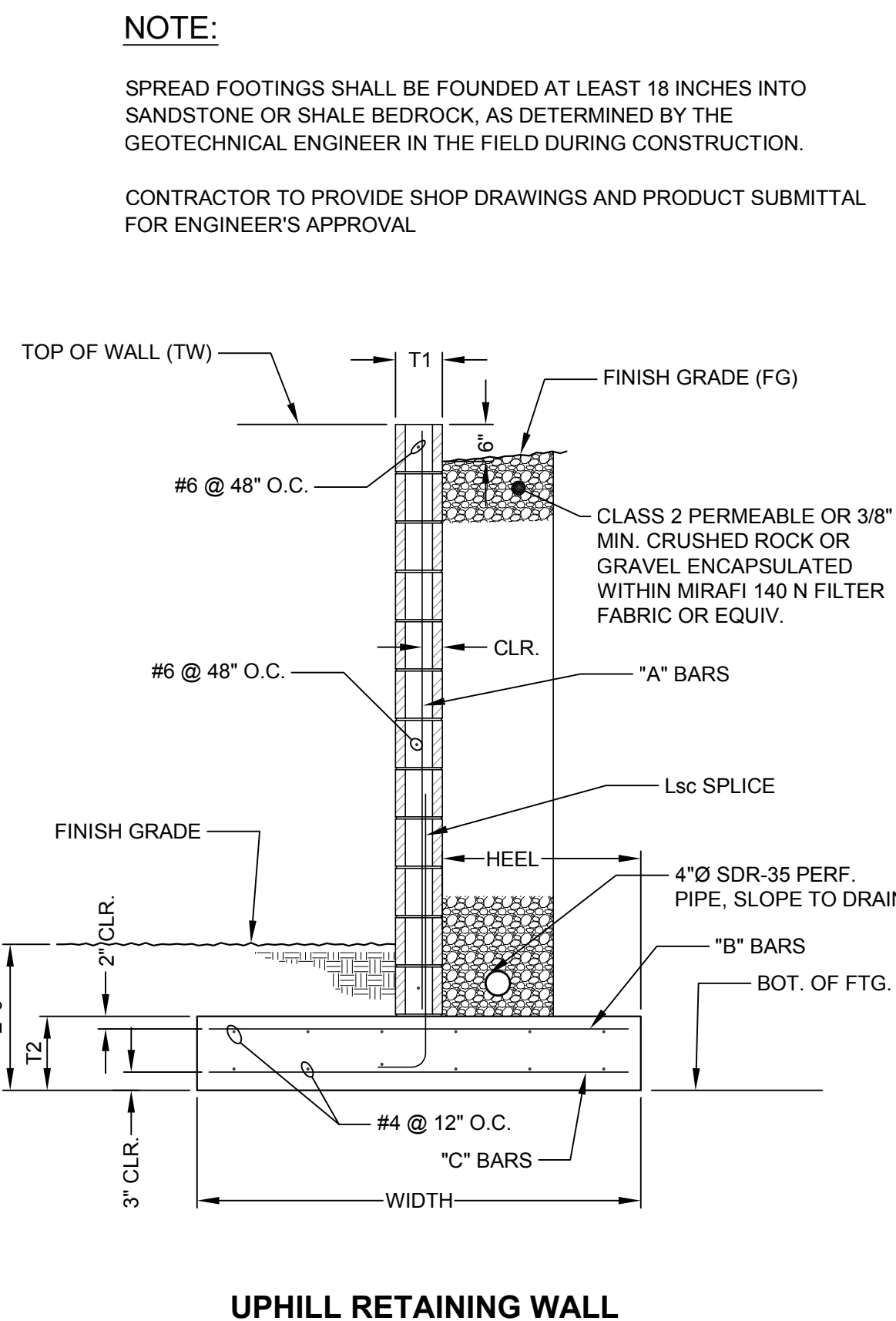
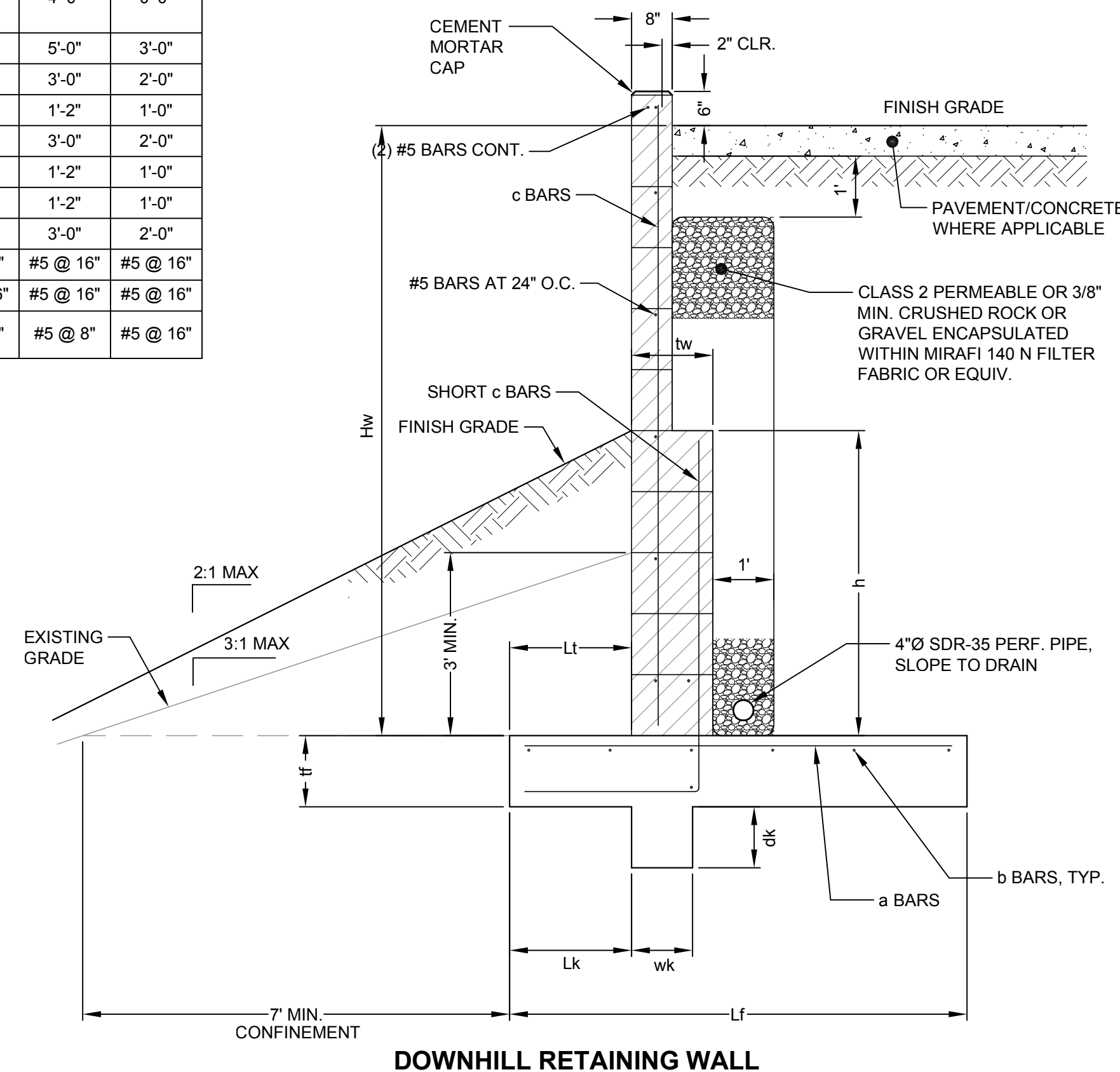
ID	STRUCTURE DATA
SSMH#1	RIM = 163.22 6" INV. IN (S) = 158.22
SSMH#2	RIM = 165.21 6" INV. IN (SE) = 158.40 6" INV. OUT (N) = 158.40
SSMH#3	RIM = 192.12 6" INV. IN (SW) = 186.10 6" INV. OUT (N) = 186.00
SSMH#4	RIM = 196.03 6" INV. OUT (NE) = 190.41

ALL MANHOLES SHALL BY PER LOCAL SANITARY SEWER DISTRICT STANDARDS

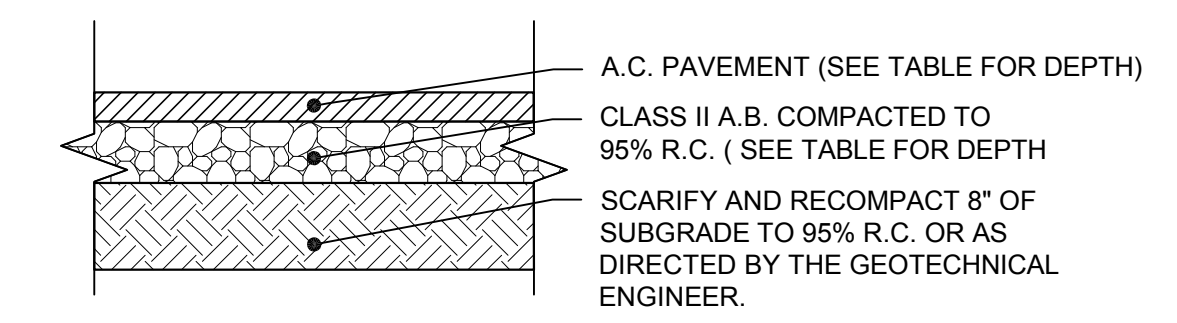
FAIRVIEW WAY

APN 049-044-08

DESIGN HEIGHT Hw	8'-0" TO 6'-0"	6'-0" TO 4'-0"	4'-0" TO 0'-0"
Lf	7'-0"	5'-0"	3'-0"
Lt	5'-0"	3'-0"	2'-0"
tf	1'-4"	1'-2"	1'-0"
Lk	5'-0"	3'-0"	2'-0"
wk	1'-4"	1'-2"	1'-0"
dk	1'-4"	1'-2"	1'-0"
h	3'-6"	3'-0"	2'-0"
a BAR	#5 @ 8"	#5 @ 16"	#5 @ 16"
b BAR	#5 @ 16"	#5 @ 16"	#5 @ 16"
SHORT b BAR	#5 @ 8"	#5 @ 8"	#5 @ 16"



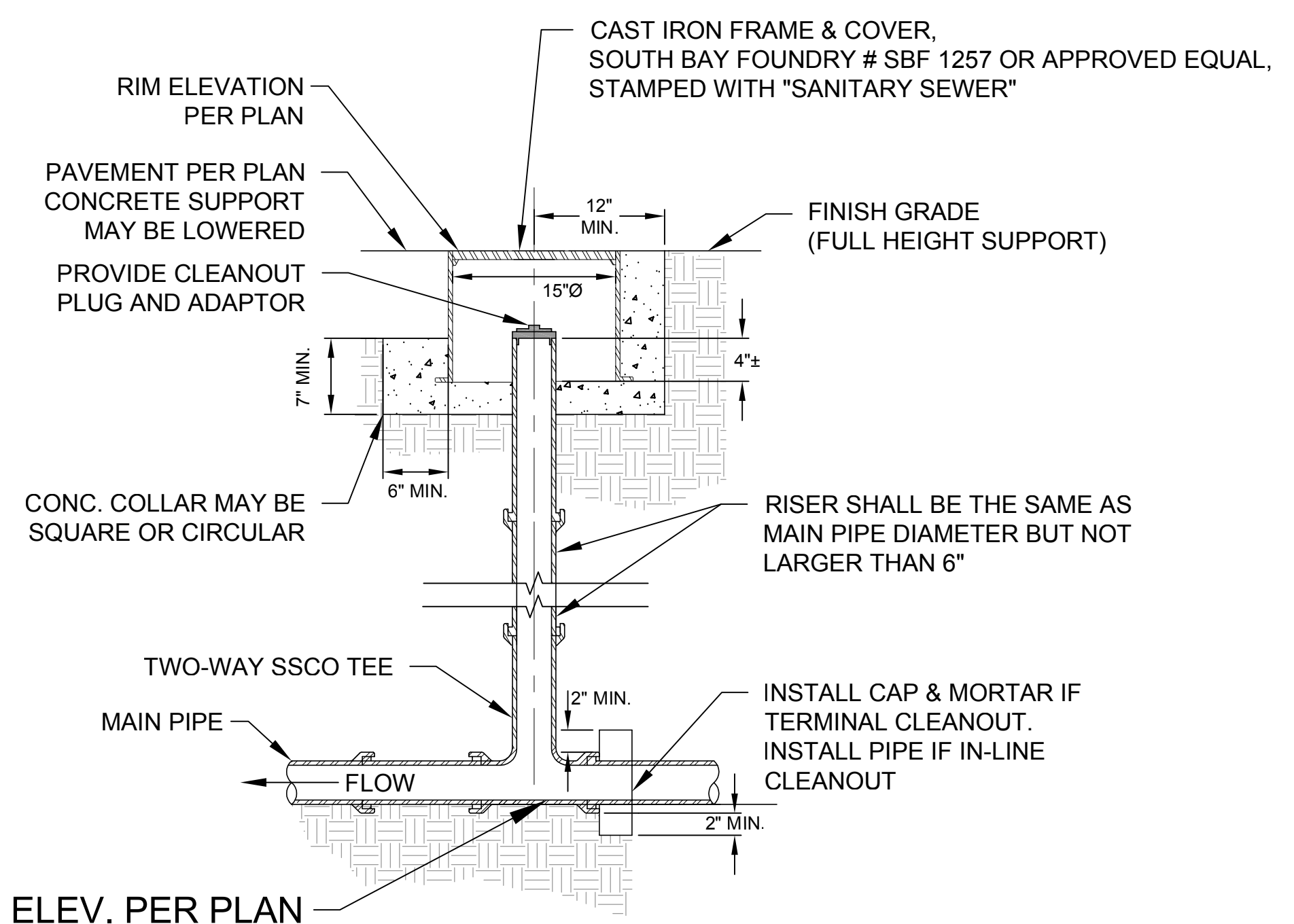
NOTE:
SPREAD FOOTINGS SHALL BE FOUNDED AT LEAST 18 INCHES INTO SANDSTONE OR SHALE BEDROCK, AS DETERMINED BY THE GEOTECHNICAL ENGINEER IN THE FIELD DURING CONSTRUCTION.
CONTRACTOR TO PROVIDE SHOP DRAWINGS AND PRODUCT SUBMITTAL FOR ENGINEER'S APPROVAL



PAVEMENT TYPE	T.I.	A.C. THICKNESS (INCHES)	A.B. THICKNESS (INCHES)
HEAVY DUTY	6	3"	11.5"

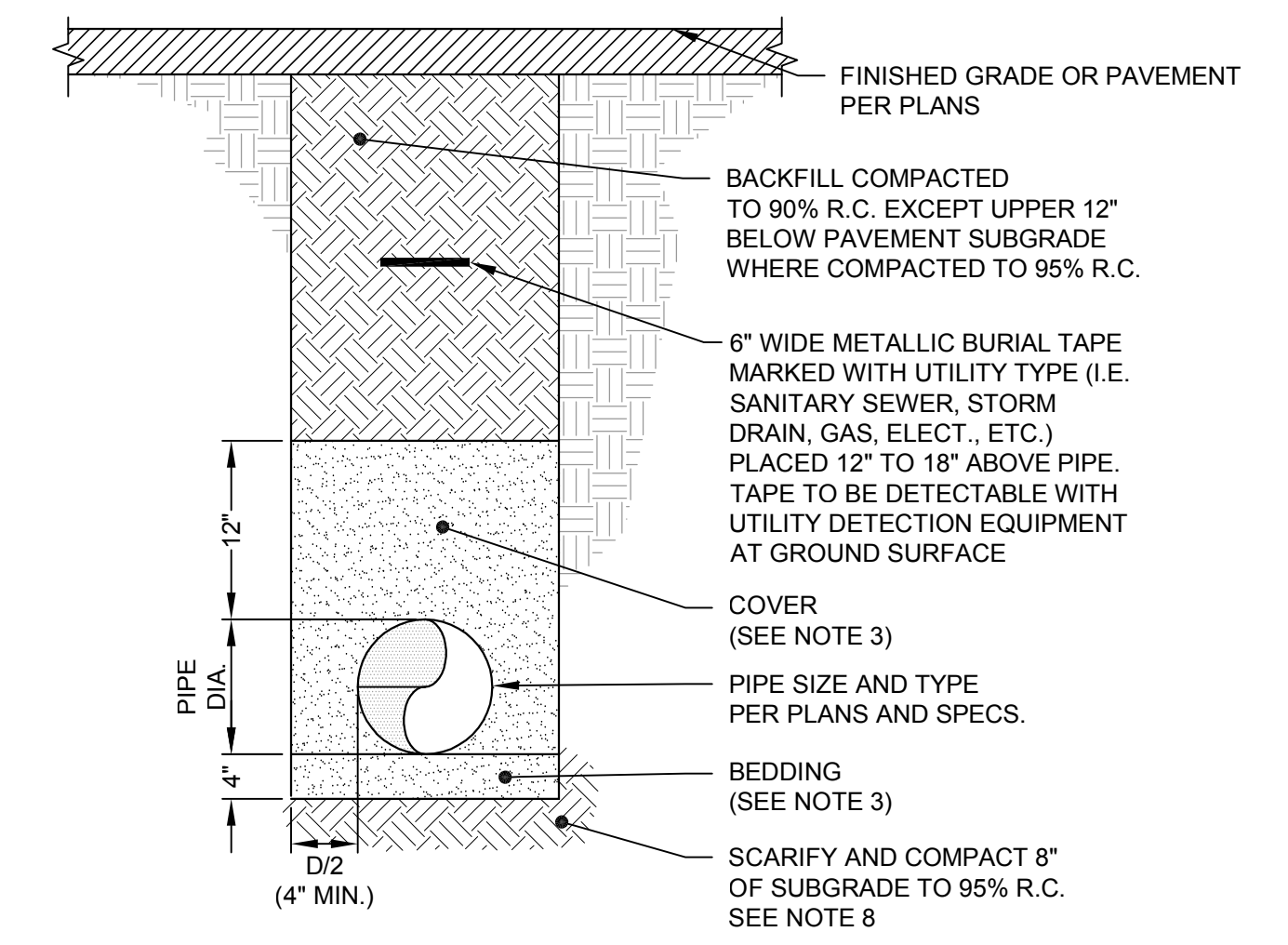
NOTES:
1. PAVEMENT SECTIONS ARE BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND ARE BASED ON A MINIMUM "R" VALUE OF 16 AND TRAFFIC INDEX OF 6.0. ADJUST DIMENSIONS PER FIELD CONDITIONS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
2. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION.

5 STANDARD ASPHALT PAVEMENT SECTION
SCALE: 1" = 1'



NOTES:
1. SEE PROJECT PLANS FOR INVERT ELEVATION.
2. PIPE AND FITTINGS, EXCEPT AS OTHERWISE SHOWN HEREON, SHALL BE OF THE SAME MATERIAL AS THE SEWER, UNLESS APPROVED ADAPTERS ARE UTILIZED.
3. PIPE AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASUREMENT, AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
4. THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON.
5. THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.

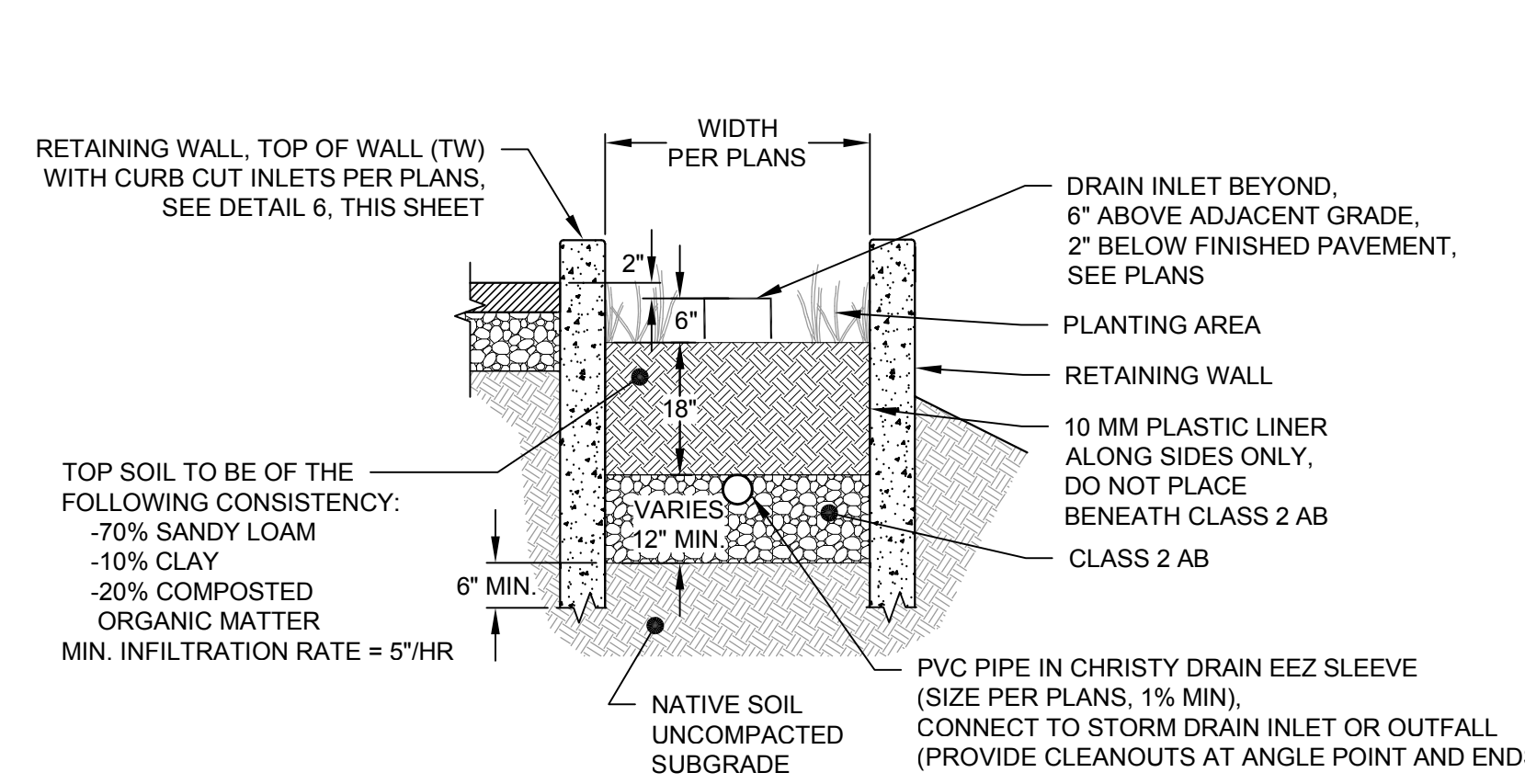
6 STANDARD TWO-WAY CLEANOUT
SCALE: 3/4" = 1'



NOTES:
1. UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
2. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
3. BEDDING AND COVER: SAND OR FINE GRAVEL WITH LESS THAN 10% FINES.
4. BEDDING SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL-SPADING, OR SHOVEL RODDING TO ENSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. JETTING IS NOT PERMITTED.
5. SUBGRADE TO BE FREE OF PROTRUDING OBJECTS.
6. BACKFILL MAY BE NATIVE SOIL IF APPROVED BY THE GEOTECHNICAL ENGINEER.
7. WHERE LESS THAN 18" BETWEEN BOTTOM OF PAVING SECTION (I.E. BOTTOM OF A.B.) AND TOP OF COVER, BACKFILL TO BE CONTROLLED DENSITY FILL (CDF).
8. TRENCH SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER.

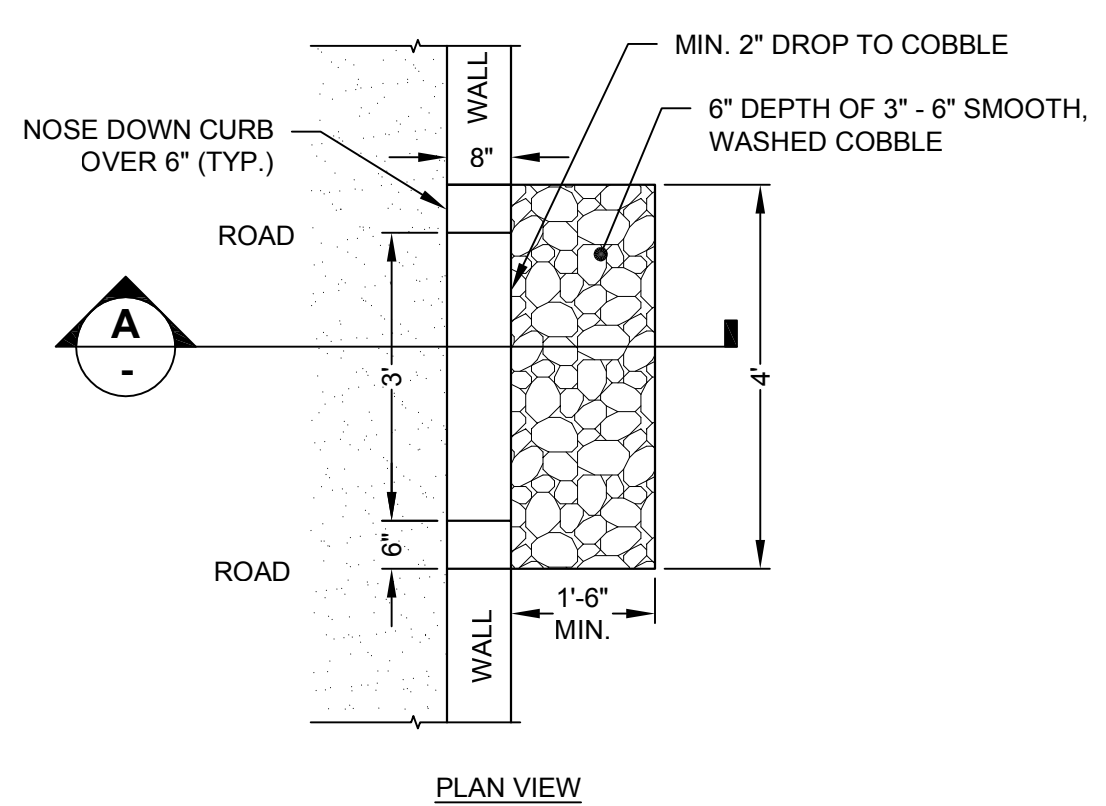
7 PIPE TRENCH DETAIL
SCALE: 1" = 1'

1 RETAINING WALL
SCALE: 1" = 2'



BIORETENTION AREA CONSTRUCTION NOTES
1. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BIORETENTION SOIL MEDIA.
2. COMPACT EACH 6" LIFT OF BIORETENTION SOIL MEDIA WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, LET DRY OVERNIGHT BEFORE PLANTING.
3. NEVER WORK WITHIN BIORETENTION AREA LIMITS DURING RAIN OR UNDER WET CONDITIONS.
4. KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
5. CONTRACTOR SHALL SUBMIT PLANTING PALETTE WHICH MEETS BASMAA APPENDIX F REQUIREMENTS

NOTES
1. USE CHECK DAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%. SEE DETAIL 7 THIS SHEET.

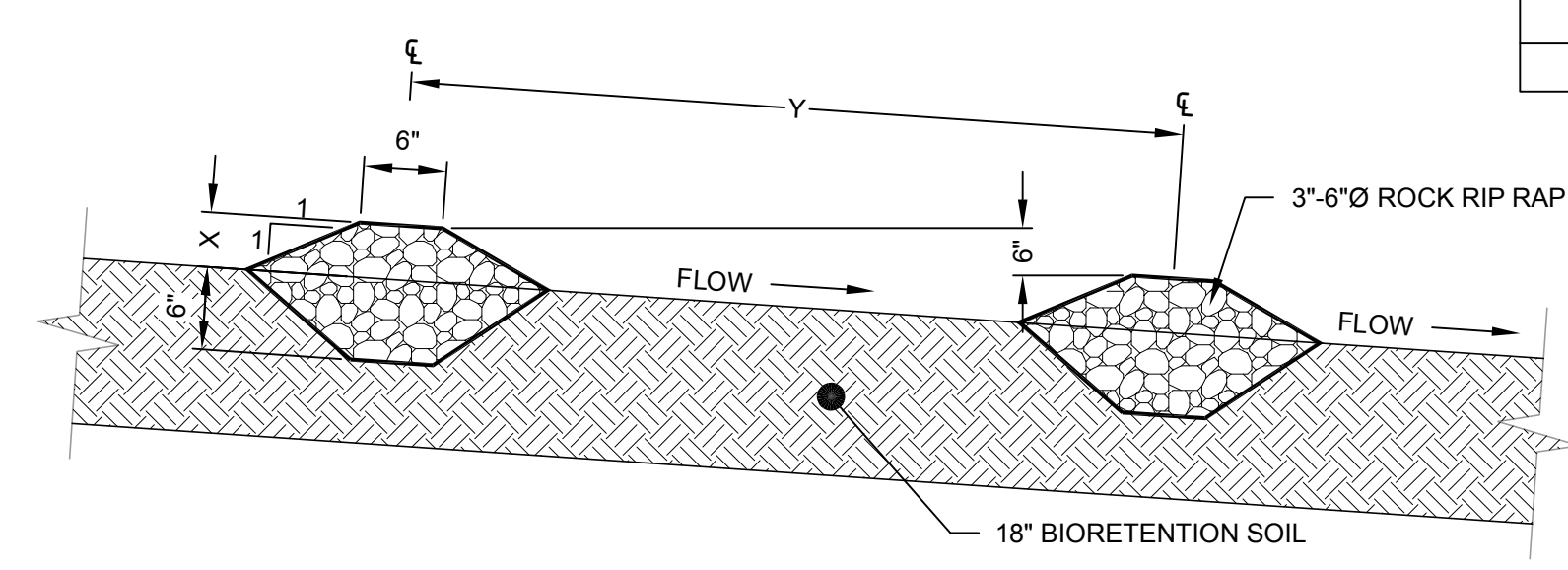


CONSTRUCTION NOTES
1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED

4 CURB CUT INLET WITH GRAVEL ENERGY DISSIPATION
SCALE: 1" = 1'

2 BIORETENTION AREA DETAIL
SCALE: 1" = 1'

SLOPE	X	Y
0%-1%	N/A	N/A
1%-2%	0'-4"	20'-0"
2%-3%	0'-4"	15'-0"
> 3%	0'-4"	10'-0" MAX.



3 CHECK DAM
SCALE: NTS

Rev	Date	Description	Drawn	Checked
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS

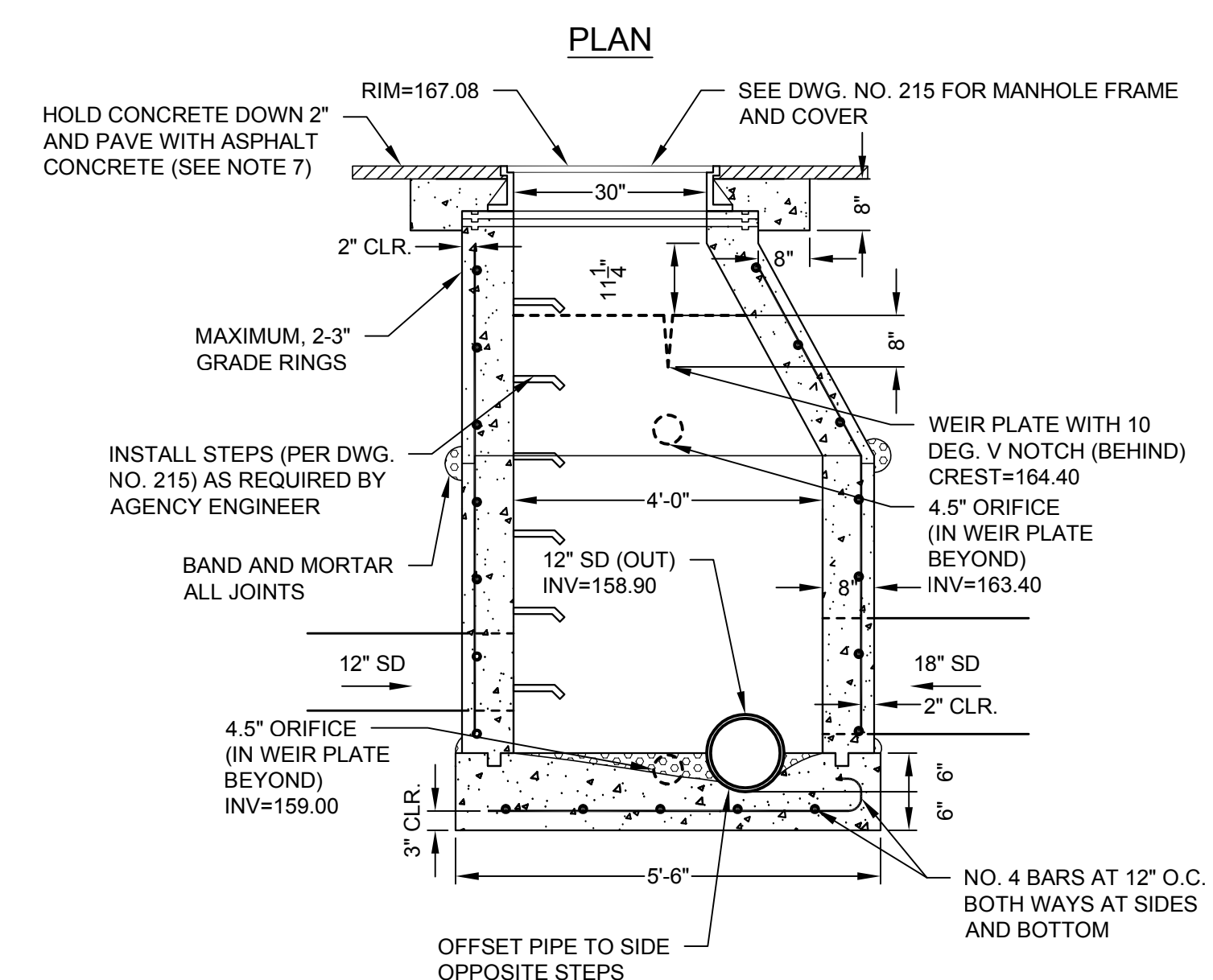
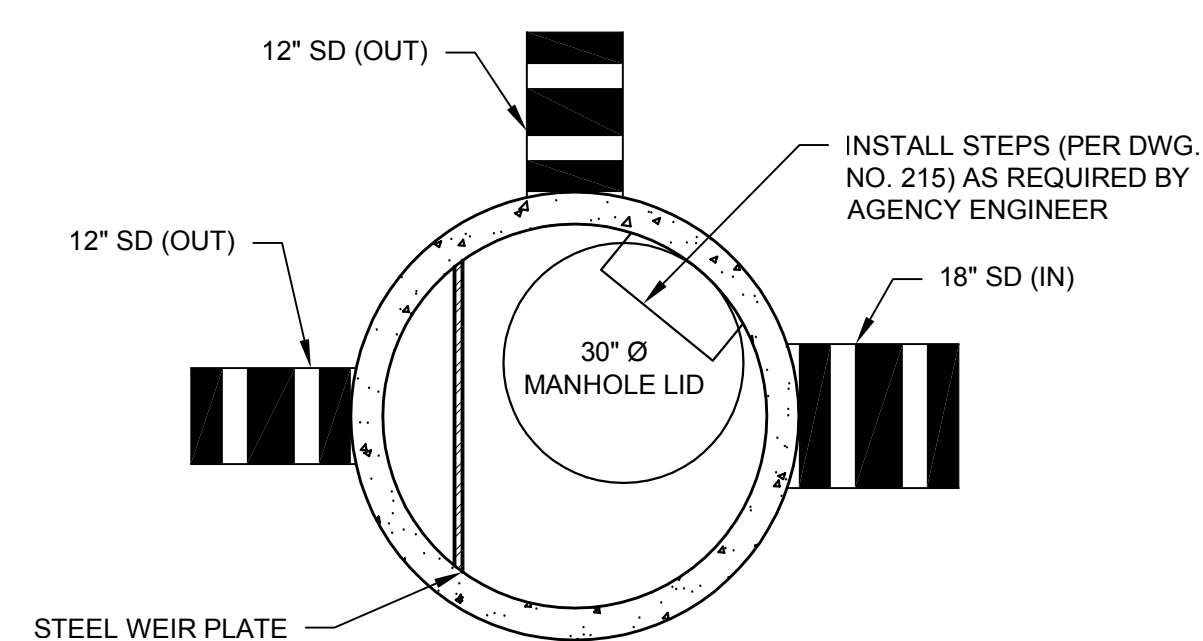
ALTA WAY GRADING PERMIT PLAN SET
DETAILS
ALTA WAY, MILL VALLEY

City Of Mill Valley
County Of Marin
State Of California



Prepared Under the Direction of:
C6.0
Scale: As Shown
Date: August 21, 2019
Project Number: 5.1434.00
Plan File: D-5286.09

Rev	Date	Description	Designed	Drawn	Checked
-	10/31/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
-	09/13/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	08/21/19	REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
-	06/28/19	RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
-	04/30/19	ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS



- NOTES:**
1. BASE SHALL BE CLASS "B" (5 SACK) CONCRETE PLACED AGAINST UNDISTURBED EARTH.
 2. CONDUIT SHALL BE LAID THROUGH MANHOLE WHENEVER POSSIBLE.
 3. CONCRETE CHANNELS SHALL BE BRUSH FINISHED.
 4. PRECAST BARREL AND ECCENTRIC CONE SHALL CONFORM TO ASTM SPECIFICATION C-478 EXCEPT THAT TYPE II CEMENT SHALL BE USED.
 5. MORTAR JOINTS SHALL BE 2 PARTS SAND TO 1 PART CEMENT.
 6. MANHOLE FRAME MAY BE ADJUSTED EITHER BEFORE OR AFTER PAVING, BUT THE FINAL GRADE OF THE FRAME MUST MATCH THAT OF THE PAVING WITHIN 1/8".
 7. WHERE FRAME IS SET AFTER PAVING, EXPOSED CONCRETE SURFACES WILL NOT BE ALLOWED EXCEPT AS PERMITTED BY AGENCY ENGINEER IN WRITING.
 8. COLLAR SHALL BE CLASS "B" (5 SACK) CONCRETE.
 9. NO CONCRETE SHALL BE PLACED PRIOR TO FORM INSPECTION.
 10. CONTRACTOR TO PROVIDE SUBMITTAL AND SHOP DRAWING FOR ENGINEER'S APPROVAL.

1 WEIR PLATE DETAIL
SCALE: 1/2" = 1'

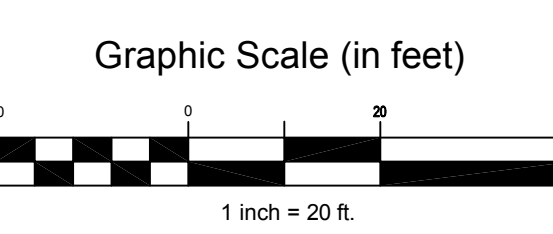
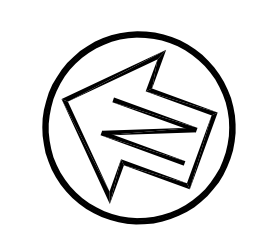
ALTA WAY GRADING PERMIT PLAN SET
DETAILS
ALTA WAY, MILL VALLEY

City Of
Mill Valley
County Of
Marin
State Of
California

Prepared Under the Direction of:



Sheet
C6.1
Scale: As Shown
Date: August 21, 2019
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EROSION CONTROL LEGEND

- FIBER ROLLS
- DIRECTION OF FLOW OR SLOPE
- EXISTING DIRECTION OF FLOW OR SLOPE
- CONCRETE WASHDOWN AREA
- DELIVERY AREA
- STORM INLET PROTECTION
- PORTABLE TOILET WITH LINER

GENERAL NOTES:

- TOTAL DISTURBED AREA = 0.75 AC.
- PRE-PROJECT IMPERVIOUS AREA = 0
POST PROJECT IMPERVIOUS AREA = 12,810 SF

POLLUTION CONTROL NOTES:

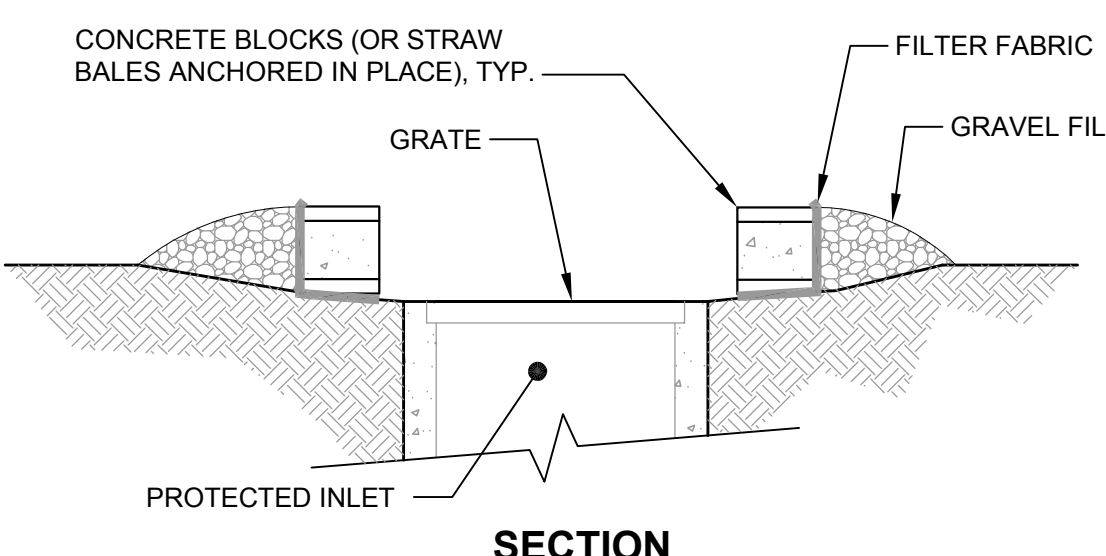
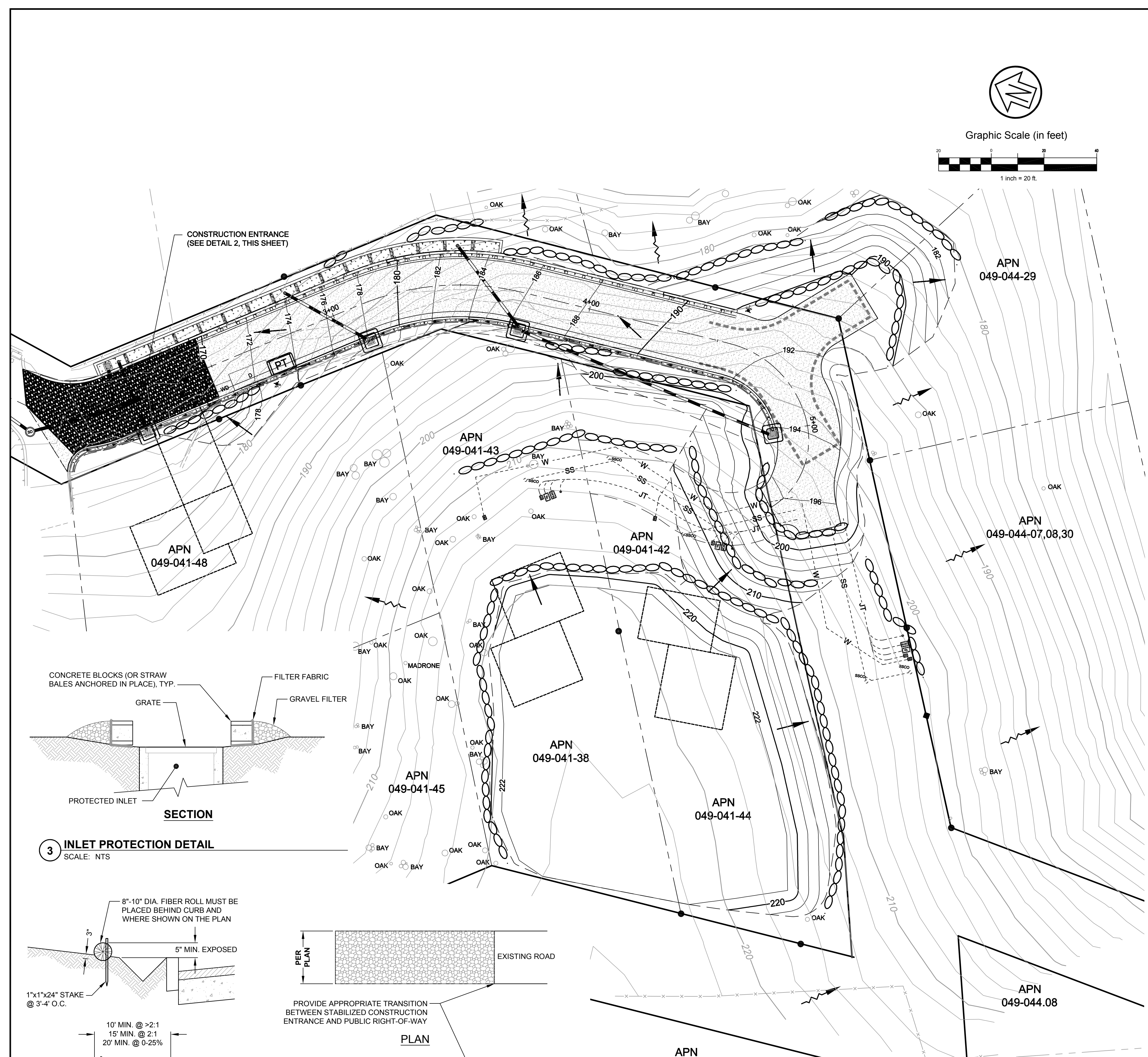
- EXPORT OF SOIL IS NOT ANTICIPATED ON THIS PROJECT.
- SITE WILL BE GRADED IN ACCORDANCE WITH THE GRADING PLANS PREPARED BY CSW/ST2. GRADING SHALL DIRECT AT STORM WATER RUNOFF TO THE STREETS OR INLETS SHOWN ON THIS PLAN AND ULTIMATELY TO THE CITY-MAINTAINED STORM DRAIN SYSTEM. ALL STORM WATER FROM THIS SITE IS INTENDED TO BE DIRECTED TO THE COUNTY STORM DRAINS.
- IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT THE CIVIL ENGINEER IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THIS PLAN. SEDIMENT ON SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL OR BROOM AND PLACED IN STOCKPILES APPROVED BY THE COUNTY ENGINEER.
- ALL DUMPSTERS OR OTHER TRASH STORAGE ENCLOSURES SHALL BE UTILIZED SOLELY FOR NON-HAZARDOUS MATERIALS.
- ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN OR RELATED DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY COUNTY, OR OTHER AGENCIES. ALL PROPERTY OWNERS, CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY COUNTY, STATE OR LOCAL AGENCIES.
- CONTRACTOR MAY RELOCATE STORAGE, DELIVERY, OR WASH-OUT AREAS, TO SUIT THEIR OPERATIONS. RELOCATED LOCATION TO BE SHOWN ON PLANS MAINTAINED AT JOBSITE. CONTACT CIVIL ENGINEER FOR ANY PLAN REVISIONS. PLAN REVISIONS SHALL BE SUBMITTED TO COUNTY IF REQUESTED. CONTRACTOR TO MAINTAIN SECONDARY CONTAINMENT AS NECESSARY TO PROHIBIT POLLUTION AND TOXIC MATERIALS FROM ENTERING STORM DRAIN.
- AFTER COMPLETION OF THE CURB, GUTTER, AND PAVING, OR CONCRETE V-DITCHES THE SILT FILTERS SHALL BE MODIFIED TO BURLAP SACKS FILLED WITH 3/4" DRAIN ROCK OR OTHER ACCEPTED BMP POSITIONED SURROUNDING EACH CATCH BASIN.

EROSION CONTROL NOTES:

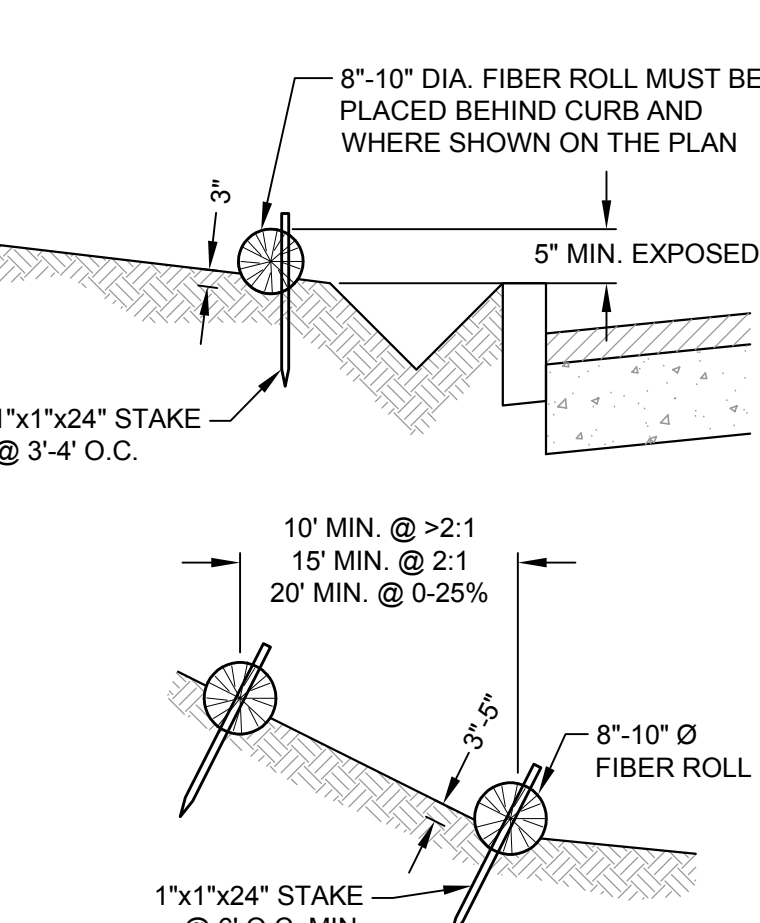
- NO VEHICLES SHALL BE ALLOWED TO TRACK OR SPREAD SOIL FROM THE CONSTRUCTION AREAS ONTO EXISTING PAVED PUBLIC STREETS. ANY VEHICLE OPERATING WITHIN THE PROJECT AREA AND OFF THE PAVED STREET SHALL CROSS A CONSTRUCTION ENTRANCE AS SHOWN HEREIN. THE ENTRANCE MAY BE MODIFIED BY THE CONTRACTOR TO FACILITATE HIS OPERATIONS.
- THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE OPERABLE DURING THE RAINY SEASON, OCTOBER 1ST TO APRIL 15TH. NO GRADING WILL OCCUR BETWEEN OCTOBER 1ST AND APRIL 15TH, UNLESS AUTHORIZED BY THE COUNTY ENGINEER.
- CHANGES TO THIS EROSION CONTROL PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE COUNTY ENGINEER. CHANGES MADE TO SUIT FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CIVIL ENGINEER AND THE COUNTY ENGINEER.
- DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL IMPROVEMENTS ARE ACCEPTED BY THE COUNTY, AND ALL SLOPES ARE STABILIZED FROM EROSION.
- STRAW AND TACKIFIER WILL BE APPLIED BY OCTOBER 1ST TO ALL DISTURBED AREAS. ALL EXPOSED SLOPES ADJACENT TO PUBLIC RIGHTS OF WAY SHALL ALSO RECEIVE STRAW AND TACKIFIER. STRAW AND TACKIFIER TO BE APPLIED PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE MINIMUM.
- INSTALL 3" MIN. THICKNESS MULCH OVER LANDSCAPE AREAS BETWEEN ROADWAY AND SIDEWALK. ROUGH GRADED DITCHES SHALL BE LINED WITH EROSION CONTROL BLANKETS AND THEN HYDROSEED.
- AFTER INSTALLATION OF CONCRETE IN DITCHES, INSTALL ONE SACKED ROCK FILTER DAM AT INLET UNTIL SLOPES ARE STABILIZED FROM EROSION.
- THIS PLAN ASSUMES THE COMPLETION OF GRADING AND STORM DRAIN FACILITIES. IF FACILITIES ARE NOT COMPLETED, CONTACT THE CIVIL ENGINEER FOR PLAN REVISIONS.
- ALL BANKS AND ALL GRADED AREAS SHALL BE HYDROSEED TO CONTROL EROSION BY OCTOBER 1ST. SEE SEED MIX, THIS SHEET.

URBAN RUNOFF POLLUTION NOTES:

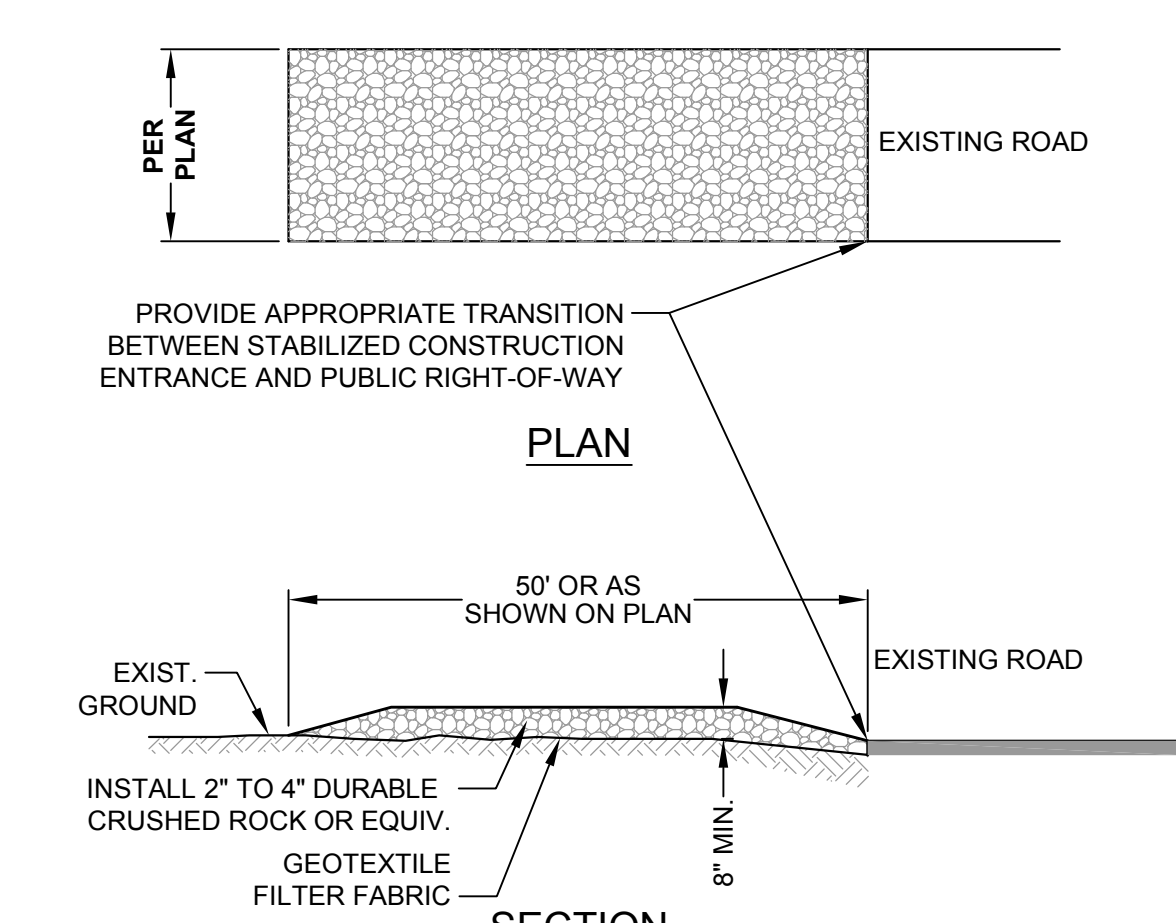
- STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 1 AND APRIL 1.
- REMOVE SPOILS PROMPTLY AND AVOID STOCKPILING OF FILL MATERIALS WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCK-PILED SOILS AND OTHER MATERIALS SHALL BE TARPED, AT THE REQUEST OF THE COUNTY ENGINEER.
- STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES SO AS TO PREVENT THEIR ENTRY TO THE STORM DRAIN SYSTEM. CONTRACTOR MUST NOT ALLOW CONCRETE, WASHWATERS, SLURRIES, PAINT OR OTHER MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
- USE FILTRATION OR OTHER MEASURES TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- NO CLEANING, FUELING OR MAINTAINING VEHICLES ON SITE SHALL BE PERMITTED IN ANY MANNER THAT ALLOWS DELETERIOUS MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
- USE OF PESTICIDES IS PROHIBITED. USE OF FERTILIZERS SHALL BE APPLIED AND CONTROLLED TO PREVENT POLLUTION RUNOFF.
- IN THE EVENT GRADING OPERATIONS ARE SUSPENDED BY WEATHER CONDITIONS AND IF THE STORM DRAIN SYSTEM IS INCOMPLETE, INSTALL ADDITIONAL ROCK FILTERS AND OTHER FACILITIES AS DIRECTED BY THE CIVIL ENGINEER AND COUNTY ENGINEER.
- CONTRACTOR TO RELOCATE CONCRETE WASHDOWN, VEHICLE STORAGE DELIVERY, AND NON HAZARDOUS WASTE AREAS AS NECESSARY TO FACILITATE THEIR OPERATION AND PROMOTE POLLUTION CONTROL.
- HYDROMULCH & TACKIFIER MAY BE ELIMINATED WITHIN ROADWAY FOOT PRINT IF CONSTRUCTION IS IMMINENT.



3 INLET PROTECTION DETAIL
SCALE: NTS



1 FIBER ROLL DETAIL
SCALE: N.T.S.



2 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS

NOTES

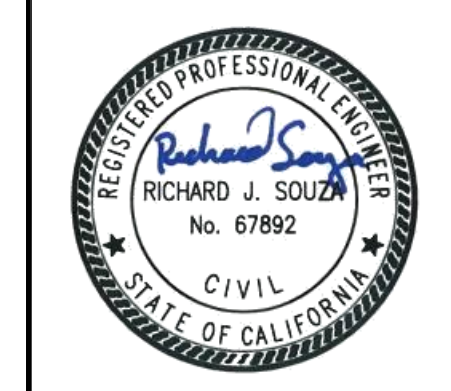
- FIBER ROLLS TO BE LAID ALONG CONTOUR.

Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
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ALTA WAY GRADING PERMIT PLAN SET
EROSION CONTROL PLAN
ALTA WAY, MILL VALLEY

City Of
Mill Valley
County Of
Marin
State Of
California

Prepared Under the Direction of:



Sheet
C7.0

Scale: 1 inch = 20 ft.
Date: August 21, 2019
Project Number: 5.1434.00
Plan File: D-5286.10

PROPOSED STORMWATER TREATMENT

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
DMA 1	7896	PAVEMENT	1.0	7896	BIO AREA 1		
	3780	FUTURE DRIVEWAYS	1.0	3780	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	42618	LANDSCAPE	0.1	4262			
TOTAL >				15938	0.04	638	643

NOTE: FOR LOCATION OF FUTURE DRIVEWAYS, SEE SHEET C4.2.

FUTURE STORMWATER TREATMENT

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
DMA 2	700	PAVEMENT	1.0	700	BIO AREA 1		
	2670	FUTURE DRIVEWAYS	1.0	2670	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	11370	LANDSCAPE	0.1	1137			
TOTAL >				4507	0.04	180	180

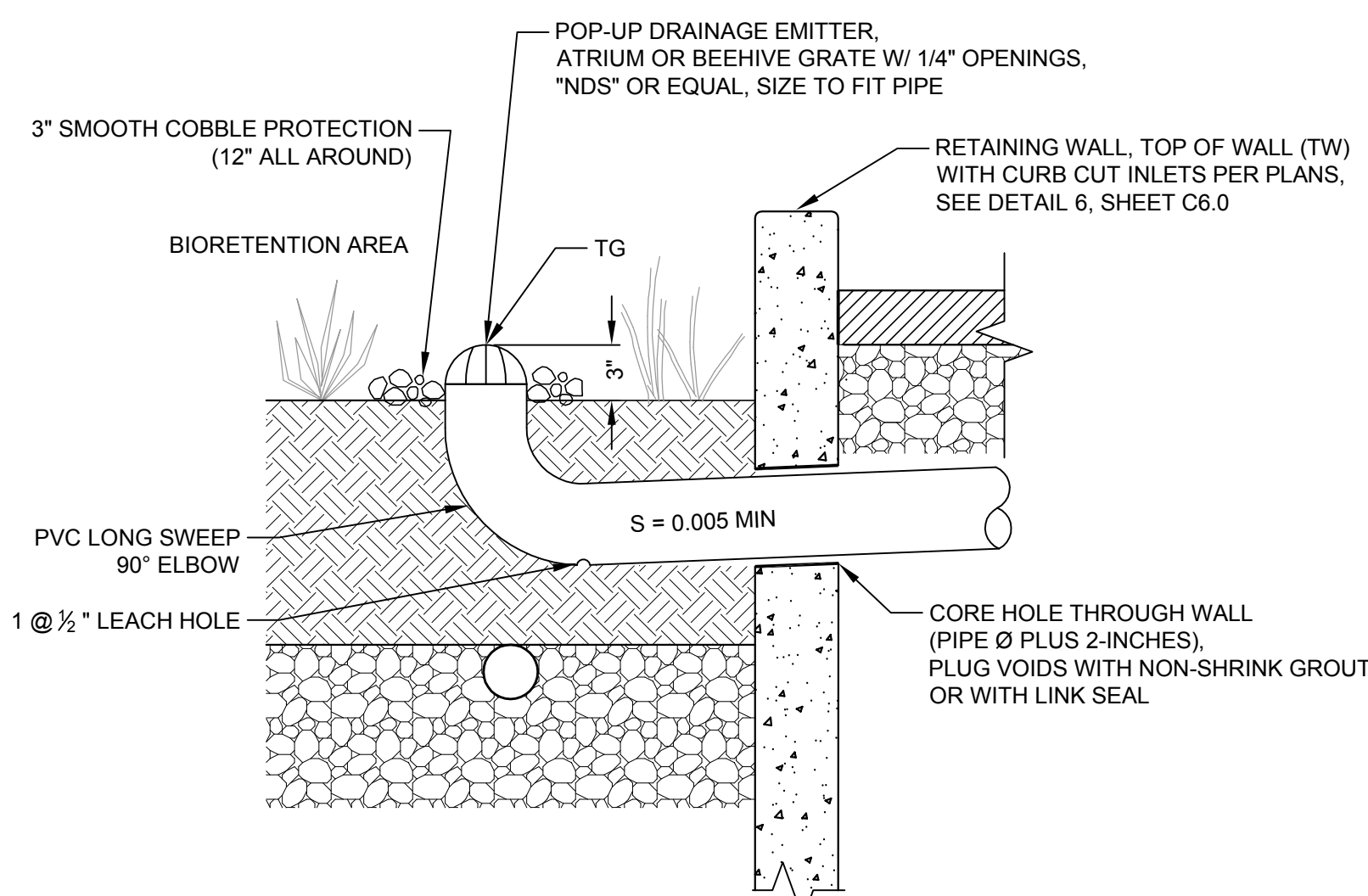
DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
DMA 2	700	PAVEMENT	1.0	700	BIO AREA 2		
	2670	FUTURE DRIVEWAYS	1.0	2670	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	11370	LANDSCAPE	0.1	1137			
TOTAL >				4507	0.04	180	180

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
DMA 3	260	PAVEMENT	1.0	260	BIO AREA 3		
	3260	FUTURE DRIVEWAYS	1.0	3260	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	5530	LANDSCAPE	0.1	553			
TOTAL >				4073	0.04	163	163

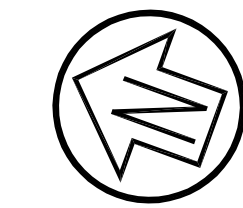
DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
DMA 4	0	PAVEMENT	1.0	0	BIO AREA 4		
	4295	FUTURE DRIVEWAYS	1.0	4295	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	39295	LANDSCAPE	0.1	3930			
TOTAL >				8225	0.04	329	329

KEYNOTES

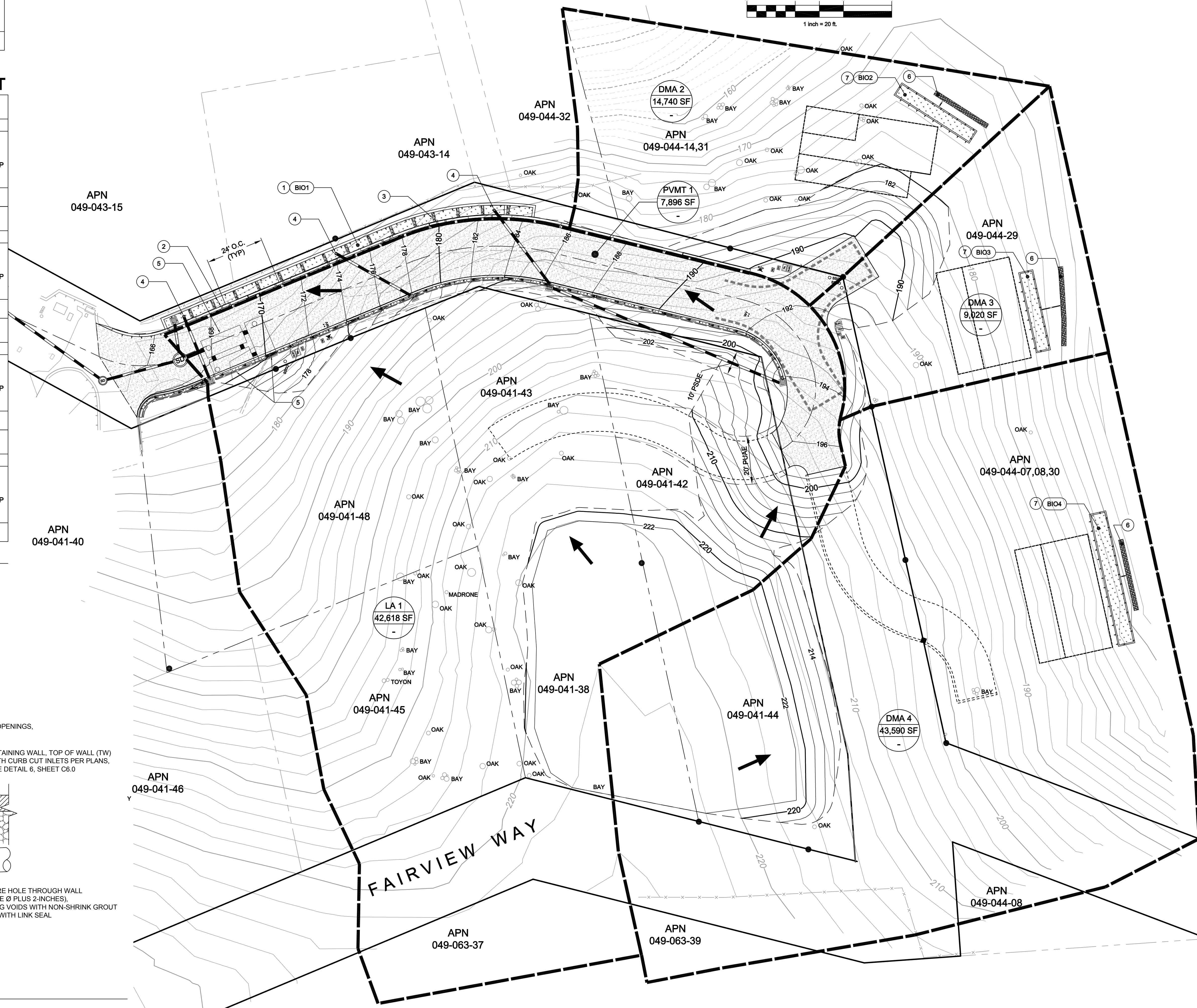
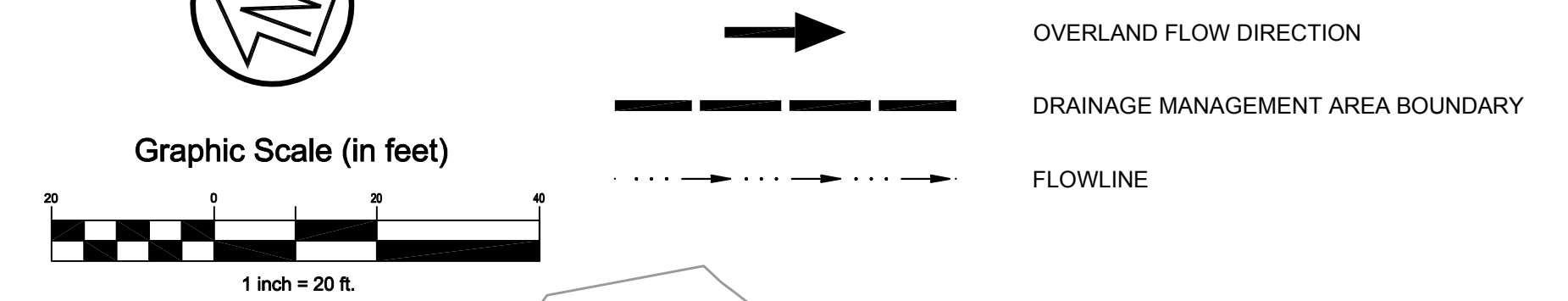
- 1 BIORETENTION AREA, SEE DETAIL 5, SHEET C6.0
- 2 3' WIDE CURB CUTS IN RETAINING WALL AT 24' O.C., SEE DETAIL 6, SHEET C6.0
- 3 CHECK DAM, SEE DETAIL 7, SHEET C6.0
- 4 BUBBLE-UP EMITTER, SEE DETAIL 1, THIS SHEET
- 5 5000 GALLON STORM DRAINAGE HOLDING TANK
- 6 FUTURE OUTFALL DISSIPATER (NOT FOR CONSTRUCTION)
- 7 FUTURE BIORETENTION AREA (NOT FOR CONSTRUCTION)



1 TYPICAL BUBBLE-UP DETAIL
SCALE: N.T.S.



HYDROLOGY LEGEND



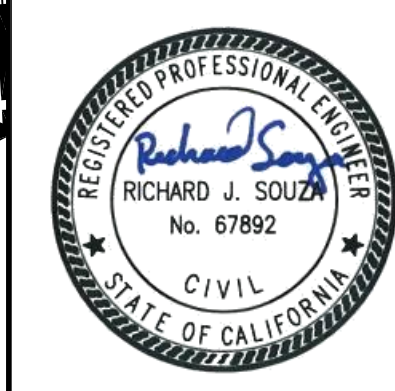
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Rev	Date	Description	Designed	Drawn	Checked
06/02/20		REVISIONS PER CEQA COMMENTS	SAS	SAS	RJS
10/31/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	SAS	RJS
09/13/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
08/21/19		REVISIONS PER PLAN CHECK COMMENTS	SAS	JBD	RJS
06/28/19		RE-ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS
04/30/19		ISSUED FOR DESIGN REVIEW	SAS	SAS	RJS

ALTA WAY GRADING PERMIT PLAN SET
STORMWATER TREATMENT PLAN
ALTA WAY, MILL VALLEY

City Of
Mill Valley
County Of
Marin
State Of
California

Prepared Under the Direction of:



Sheet
C8.0

Scale: 1 inch = 20 ft.
Date: August 21, 2019
Project Number: 5.1434.00
Plan File: D-5286.11