

IMPROVEMENT PLANS FOR :

2021 SEWER REHABILITATION PROJECT

MAY 2021

FOR

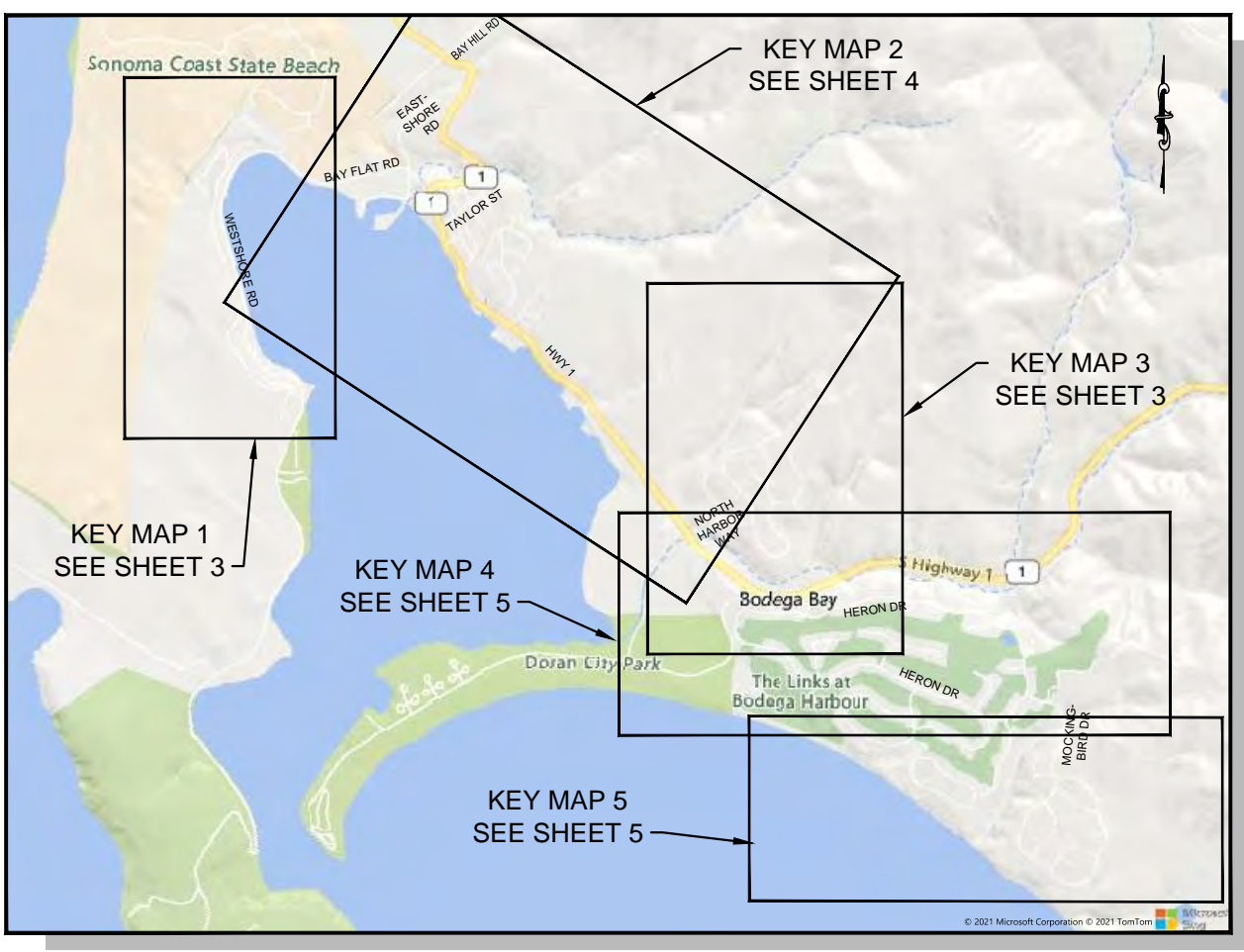
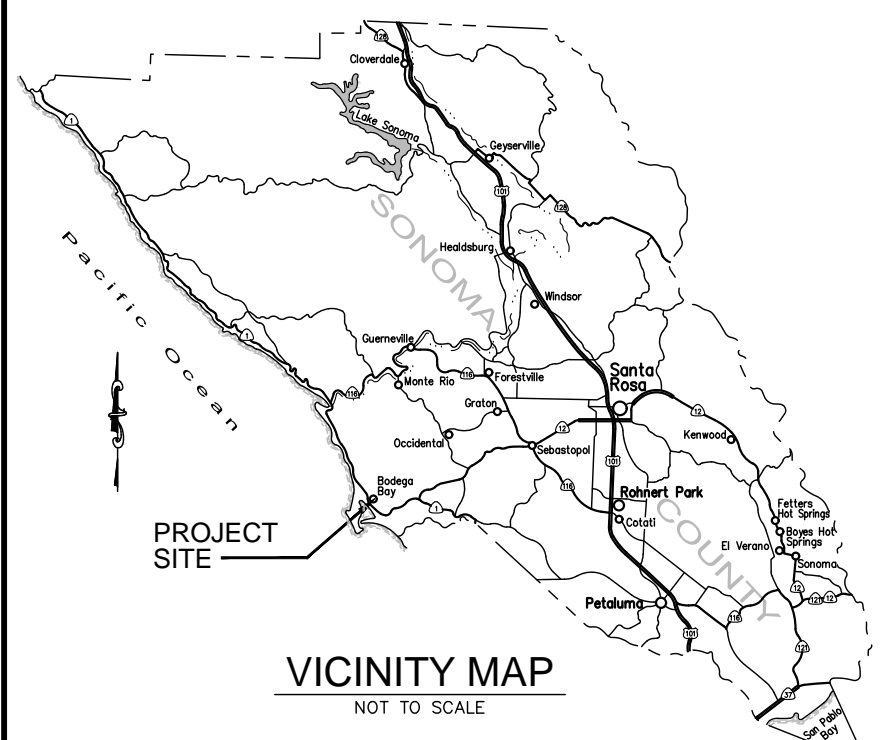
BODEGA BAY PUBLIC UTILITY DISTRICT
SONOMA COUNTY, CALIFORNIA

ORIGINAL PLOT DATE: 08/21/20

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

0 1 2 3

Image: Bodega Bay Public - Utility.svs Xrefs: Bodega Bay Bore.dwg, CE-ENGINEERS STAMPS-PLAN.dwg, 6-1340, IP-1.0.dwg, 95-4340, IP-1.0.dwg, CE-ENGINEERS STAMPS-CONTRACT.dwg, 95-4340, IP-5.dwg Path: F:\CAL 30 Projects\95\4340\Utility\95-4340_Cover.dwg Layout Name: SH-1-1 Plot Date: May 18, 2021 at 13:38



INDEX OF SHEETS

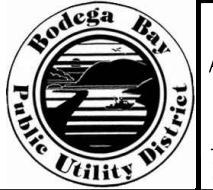
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PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021



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JENNIFER A. MELMAN, RCE C62260 DATE
LICENSE EXPIRATION: 9/30/21



BODEGA BAY
APPROVED DATE _____
John L. Wanger
CITY ENGINEER

PROJECT NUMBER
95-4340
DRAWING DATE
MAY 2021
DRAWING NUMBER
1 OF 36

BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT

ORIGINAL PLOT DATE: _____
 FOR REDUCED PLANS, THE 0 1 2 3 INCHES
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY
 PROJECT: Bodega Bay Sewer Rehabilitation
 DATE: 05/19/2021
 DRAWING NO: 2021-05-19-001

GENERAL NOTES

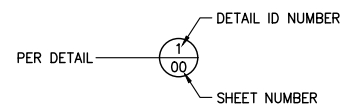
- EXCAVATIONS OVER FIVE FEET (5') DEEP REQUIRE AN EXCAVATION PERMIT FROM THE STATE DEPARTMENT OF INDUSTRIAL SAFETY.
- CONTRACTOR SHALL CALL "USA NORTH" AT (800) 227-2600 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION FOR LOCATING UNDERGROUND UTILITIES.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR 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 HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- NOTICE TO CONTRACTORS: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY LINES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. OVERHEAD UTILITIES ARE NOT SHOWN ON THE PLANS. AS A PART OF THEIR PRE-BID INSPECTION, BIDDERS SHALL NOTE THE TYPE AND LOCATION OF OVERHEAD UTILITIES IN THE WORK AREA AND SHALL INCLUDE PROVISIONS FOR WORKING IN THOSE AREAS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO DISTRICT OR PRIVATE PROPERTY OR OTHER UTILITIES CAUSED BY HIS OR HER OPERATIONS. ALL IRRIGATION LINES AND COMPONENTS DISTURBED BY CONSTRUCTION SHALL BE REPAIRED AND RESTORED TO WORKING CONDITION. ANY DAMAGED LAWN OR LANDSCAPING SHALL BE REPLACED.
- THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO THE SITE AND ALL DRIVEWAYS DURING CONSTRUCTION. MAIL SERVICE SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THIS PROJECT. THE U.S. POSTAL SERVICE SHALL HAVE UNINTERRUPTED ACCESS TO MAILBOXES AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL PAVEMENT, CONCRETE AND REINFORCEMENT, SEWER MATERIALS AND SPOILS NOT NEEDED FOR BACKFILL AS REQUIRED BY THE ENGINEER AND PER THE SPECIFICATIONS.
- THE CONTRACTOR SHALL POSSESS A VALID CLASS "A" LICENSE AT THE TIME THE CONTRACT IS AWARDED.
- ANY DAMAGE RESULTING FROM SEWAGE OVERFLOW AND SPILLAGE SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR IS CAUTIONED THAT THE SANITARY SEWER, MANHOLES, AND OTHER APPURTENANCES ARE PART OF AN OPERATING WASTE WATER FACILITY. THESE FACILITIES RUN CONTINUOUSLY AND MUST MEET STATE AND FEDERAL PERMIT REQUIREMENTS. IF AN OVERFLOW, SPILL, DISCHARGE, OR LEAK OCCURS BECAUSE OF THE CONTRACTOR'S OPERATION OR NEGLECT, THE CONTRACTOR SHALL BE SOLELY LIABLE FOR THE DAMAGES (INCLUDING FINES).
- ALL EXCAVATIONS OR TRENCHES IN PAVED AREAS SHALL REQUIRE SAW CUTTING IN A NEAT AND UNIFORM MANNER.
- ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT, AND DUST IN A MANNER ACCEPTABLE TO THE DISTRICT. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A STOP WORK NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN ADEQUATELY CLEANED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.
- CONTRACTOR SHALL REPLACE ALL STRIPING AND PAVEMENT MARKING DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONFIGURATION.
- THE LOCATIONS OF SEWER LATERALS ARE BASED ON CCTV INSPECTION DATA AND ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL LATERALS CONNECTED TO SEWERS TO BE REHABILITATED AND VERIFY WHICH LATERALS ARE ACTIVE PRIOR TO STARTING WORK. INACTIVE LATERALS SHALL NOT BE RECONNECTED BUT SHALL BE CUT AND PLUGGED PER DISTRICT STANDARD 138.
- CONTRACTOR SHALL POTHOLE AND LOCATE ALL GAS UTILITIES WITHIN FOUR FEET, AND ALL OTHER UTILITIES WITHIN THREE FEET, OF SANITARY SEWERS TO BE REPLACED BY PIPE-BURSTING OR OPEN-CUT METHODS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY GAS UTILITIES LOCATED WITHIN TWO FEET, AND ALL OTHER UTILITIES WITHIN 18 INCHES, OF SANITARY SEWERS TO BE REPLACED BY PIPE-BURSTING METHODS. ANY UTILITY CROSSING DAMAGED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

CONSTRUCTION NOTE DESIGNATIONS

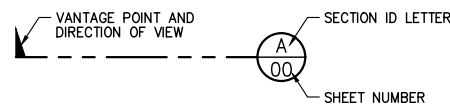
- (R1) = ROADWAY AND RELATED ITEMS CONSTRUCTION NOTES.
 (S1) = SANITARY SEWER AND RELATED ITEMS CONSTRUCTION NOTES.

DETAIL AND SECTION CALLOUTS

DETAILS:



SECTIONS:



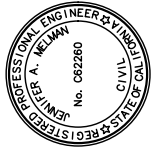
LEGEND

DESCRIPTION OF LINETYPE	PROPOSED	EXISTING
PROPERTY LINE	N/A	---
EASEMENT	N/A	---
FLOWLINE	N/A	---
CENTERLINE/CONTROL LINE	N/A	---
CHAIN LINK FENCE	N/A	---o---o---o---o---
WOOD FENCE	N/A	---o---o---o---o---
WIRE FENCE	N/A	---x---x---x---x---
WATER MAIN PIPE	N/A	---
SANITARY SEWER PIPE	6"SS	---
STORM DRAIN PIPE	N/A	---
GAS LINE	N/A	---
TELEPHONE LINE/CONDUIT	N/A	---
ELECTRICAL LINE/CONDUIT	N/A	---
OVERHEAD UTILITY	N/A	---
PIPE DEMOLITION	////	N/A

DESCRIPTION OF SYMBOL	PROPOSED	EXISTING
CONCRETE	N/A	[Symbol]
ASPHALT CONCRETE	[Symbol]	[Symbol]
SANITARY SEWER MANHOLE	[Symbol]	[Symbol]
SANITARY SEWER CLEANOUT	[Symbol]	[Symbol]
MAILBOX	N/A	[Symbol]
ROADSIDE SIGN	N/A	[Symbol]
STREET LIGHT	N/A	[Symbol]
TREE AND DRIP LINE	N/A	[Symbol]
SURVEY CONTROL POINT	N/A	[Symbol]
JOINT UTILITY POLE	N/A	[Symbol]
ADDRESS	N/A	[Symbol]

ABBREVIATIONS

AC	ASPHALT CONCRETE	M.J.	MECHANICAL JOINT
AB	AGGREGATE BASE	M.L.	MEGA LUG
ACP	ASBESTOS CEMENT PIPE	NPT	NATIONAL PIPE THREAD
A.P.N.	ASSESSORS PARCEL NUMBER	OG	ORIGINAL GROUND
A.R.V.	AIR RELEASE VALVE	OD	OUTSIDE DIMENSION
BC	BEGIN CURVE	OH	OVERHEAD UTILITY
BFP	BACK FLOW PREVENTER	PB	PULL BOX
BO	BLOWOFF	PC	POINT OF CURVATURE
BRC	BEGIN REVERSE CURVE	PCC	POINT OF COMPOUND CURVE
BSW	BACK OF SIDEWALK	PED	PEDESTRIAN
BWV	BACKWATER VALVE	PI	POINT OF INTERSECTION
BVC	BEGIN VERTICAL CURVE	PL	PROPERTY LINE
CB	CATCH BASIN	PVC	POLY VINYL CHLORIDE
C&G	CURB & GUTTER	PVI	POINT OF VERTICAL INTERSECTION
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CIPP	CURED-IN-PLACE PIPE	R	RADIUS
CL	CENTERLINE	R.C.	RELATIVE COMPACTION
CLC	CONTROL LINE COORDINATE	RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE	RET	RETAINING
CO	CLEANOUT	RFB	REDUCED PRESSURE BACKFLOW
CONC	CONCRETE	R&R	REMOVE & REPLACE
CP	CONTROL POINT	RT	RIGHT
CR	CURB RETURN	RW	RECLAIMED WATER
CSP	CORRUGATED STEEL PIPE	R/W	RIGHT-OF-WAY
CV	CHECK VALVE	S	SLOPE
DET.	DETECTOR	SD	STORM DRAIN
DI	DROP INLET	SDE	STORM DRAIN EASEMENT
DIP	DUCTILE IRON PIPE	SDMH	STORM DRAIN MANHOLE
DWY	DRIVEWAY	SL	STREET LIGHT
E	ELECTRICAL, ELECTRICAL CONDUIT	SS	SANITARY SEWER
EC	END CURVE	SSE	SANITARY SEWER EASEMENT
EG	EXISTING GRADE	SS LAT	SANITARY SEWER LATERAL
ELEC	ELECTRIC	SSMH	SANITARY SEWER MANHOLE
EL. ELEV	ELEVATION	SSCO	SANITARY SEWER CLEANOUT
EP	EDGE OF PAVEMENT	STA	STATION
EVC	END VERTICAL CURVE	STL	STEEL PIPE
EX(E)	EXISTING	STD	STANDARD
FBG	FEET BELOW GRADE	TB	TOP OF BANK
FC	FACE OF CURB	TC	TOP OF CURB
FG	FINISHED GRADE	TCE	TEMPORARY CONSTRUCTION
FL	FLOW LINE	TEL	EASEMENT
FS	FINISH SURFACE	TG	TOP OF GRATE
FSW	FRONT OF SIDEWALK	TOE	TOE OF SLOPE
G	GAS	TOP	TOP OF PIPE
GB	GRADE BREAK	TP	TELEPHONE POLE
G SER	GAS SERVICE	TS	TRAFFIC SIGNAL
GV	GATE VALVE	TW	TOP OF WALL
HDPE	HIGH DENSITY POLYETHYLENE	TYP.	TYPICAL
HP	HIGH POINT	U	UNDERGROUND UTILITY
IC	INTERCONNECT	UG	UNDERGROUND
IG	INVERT GRADE	UPC	UNIFORM PLUMBING CODE
INV	INVERT GRADE	UTIL	UTILITY
IP	IRON PIPE	VC	VERTICAL CURVE
JOL	JOINT OFFSET, LARGE	VF	VERIFY IN FIELD
JOM	JOINT OFFSET, MEDIUM	VLT	VAULT
JP	JOINT POLE	VAR.	VARIES
JSL	JOINT SEPARATED, LARGE	W, WTR	WATER, WATER MAIN
JSM	JOINT SEPARATED, MEDIUM	WM	WATER MAIN
JT	JOINT TRENCH	WS	WATER SERVICE
LAT	SANITARY SEWER LATERAL	W SER	WATER SERVICE
LF	LINEAR FEET	WV	WATER VALVE
LG	LIP OF GUTTER	< PT	ANGLE POINT
LT	LEFT		
MB	MAILBOX		
MH	MANHOLE		



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE _____
 REVIEWED BY GRH
 DRAWN BY WK/CG/SE
 DESIGNED BY JAM

Coastland Civil Engineering, Inc.
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BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY
 CALIFORNIA
**GENERAL NOTES, LEGEND
 AND ABBREVIATIONS**

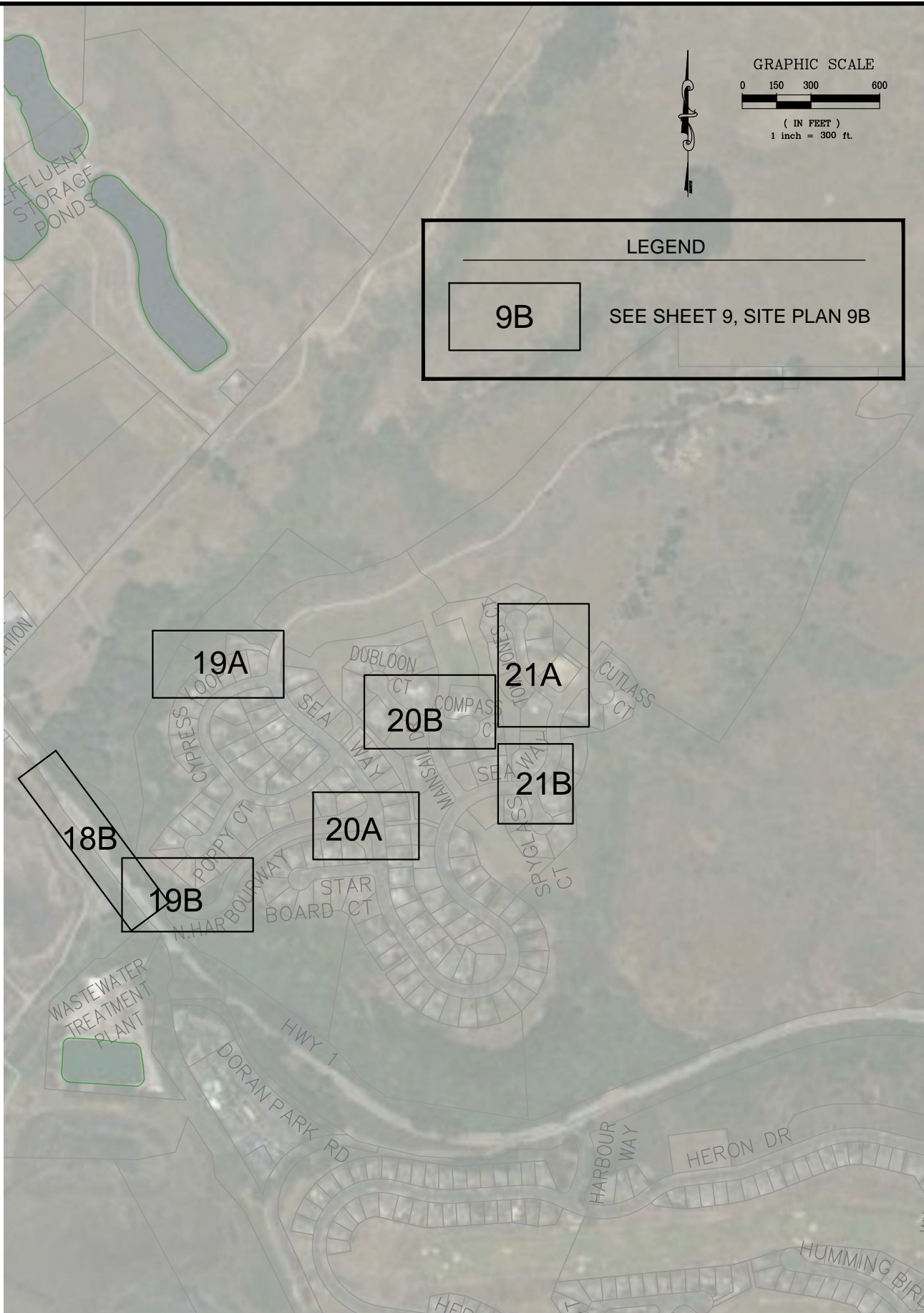
PROJECT NUMBER
 95-4340
 DRAWING DATE
 MAY 2021
 SHEET NUMBER
 2 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

Image: bodega-bay-public-utility.jpg Xrefs: bodega-by-bowling-ce-engineers-stamps-plans-95-4340_IP-4.dwg; 95-4340_IP-3.dwg; 95-4340_IP-2.dwg; 95-4340_IP-1.dwg; 95-4340_IP-1.dwg; 95-4340_IP-3.dwg; 95-4340_IP-2.dwg; 95-4340_IP-1.dwg
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 FOR REDUCED PLANS, THE 0 1 2 3 INCHES SCALE IS 1/4" INCHES

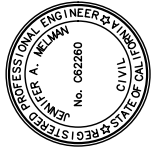



PROJECT SITES - ZONE 1

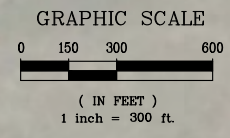


PROJECT SITES - ZONE 3

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

	PREPARED UNDER THE DIRECTION OF JENNIFER A. MELMAN, RCE C62260 DATE DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
	Coastland Civil Engineering, Inc. 1400 Neotomas Avenue, Santa Rosa, CA 95405 707.571.8005 707.571.8037 Fax
CALIFORNIA BODEGA BAY BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT	KEY MAPS 1 & 3
PROJECT NUMBER 95-4340 DRAWING DATE MAY 2021 SHEET NUMBER 3 OF 36	

FOR REDUCED PLANS, THE SCALE IS 1/8" = 100' INCHES
ORIGINAL PLOT DATE: 05/19/2021



LEGEND

9B SEE SHEET 9, SITE PLAN 9B

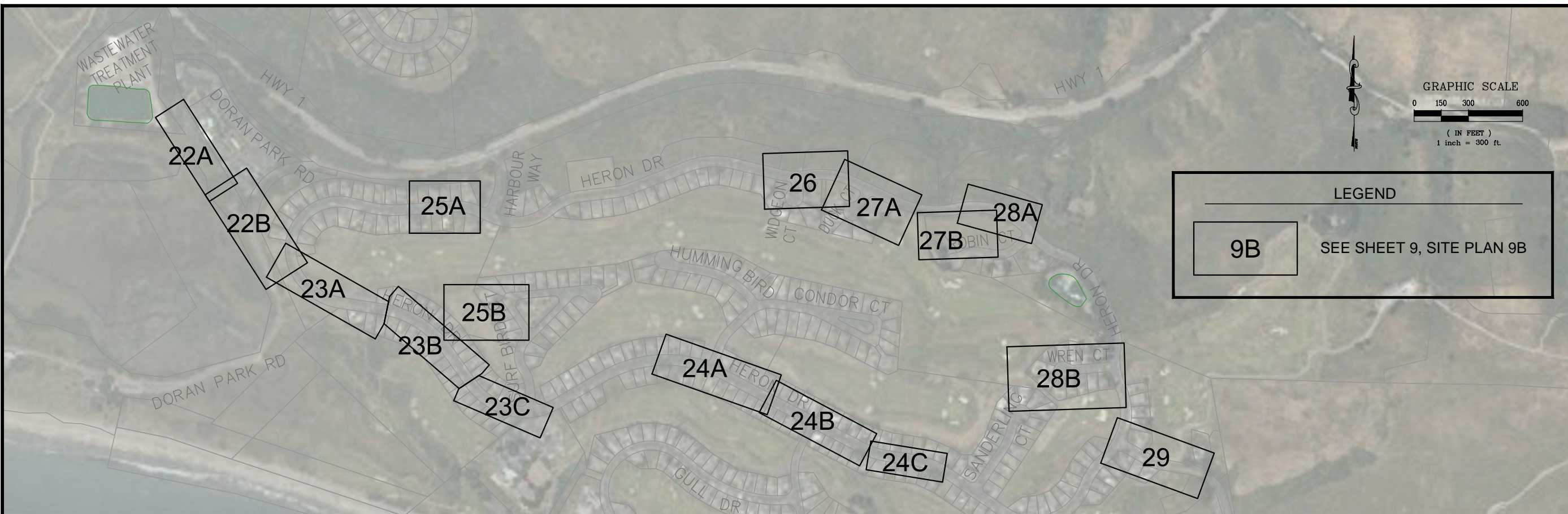
	PREPARED UNDER THE DIRECTION OF	JENNIFER A. MELMAN, RCE C62260	DATE	
	DESIGNED BY	JAM	REVIEWED BY	WK/CG/SF
	BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT			
	CALIFORNIA			
KEY MAP 2				
PROJECT NUMBER	95-4340			
DRAWING DATE	MAY 2021			
SHEET NUMBER	4 OF 36			

PROJECT SITES - ZONE 2

PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021

FOR REDUCED PLANS, THE 0 1 2 3 INCHES

ORIGINAL PLOT DATE: 05/19/2021

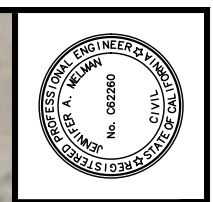


PROJECT SITES - ZONE 4



PROJECT SITES - ZONE 5

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH

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CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY
 PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 5 OF 36
KEY MAPS 4 & 5

ORIGINAL PLOT DATE: _____
 FOR REDUCED PLANS, THE 0 _____ 1 _____ 2 _____ 3 _____ INCHES
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 PROJECT NUMBER: 95-4340
 DRAWING DATE: MAY 2021
 SHEET NUMBER: 6 OF 36

TRENCHES OVER 24" IN WIDTH IN EXISTING PAVING

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- THE STREET STRUCTURAL SECTION SHALL BE HOT MIX ASPHALT (HMA) (SEE TABLE FOR MIN. HMA THICKNESS) ON 12" CLASS II AB OR 6" HMA OR AS SHOWN ON THE PLANS.
- NEATLY CUT PAVEMENT AFTER TRENCH IS BACKFILLED TO SUBGRADE. ADDITIONAL PAVEMENT REMOVAL: REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, EXISTING PAVEMENT PATCH, OR AN EDGE OF THE PAVEMENT IF SUCH STREET FEATURE IS WITHIN 3 FEET OF THE FINAL SAW CUT.
- FULL TACK COAT COVERAGE ON ALL VERTICAL AND EXISTING HMA SURFACES.
- RELATIVE COMPACTION IS DESIGNATED AS RC.
- 1-1/2" SURFACE COURSE IF EXISTING HMA IS GREATER THAN OR EQUAL TO 3" THICK. IF HMA IS LESS THAN 3" THICK, REPLACE WITH FULL DEPTH HMA.

STANDARD TRENCH DETAIL

STD. DWG. NO. **115**
PAGE 1 OF 6

TRENCHES UNDER 24" IN WIDTH IN EXISTING PAVING

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- IF ANY DIMENSION IS GREATER THAN 6' OR THE HOLE IS NOT BACKFILLED ON THE SAME DAY OF EXCAVATION, USE TRENCH BACKFILL AND SURFACING DETAIL (PAGE 1 OF 6).
- NEATLY CUT PAVEMENT AFTER TRENCH IS BACKFILLED TO SUBGRADE. ADDITIONAL PAVEMENT REMOVAL: REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, EXISTING PAVEMENT PATCH, OR AN EDGE OF THE PAVEMENT IF SUCH STREET FEATURE IS WITHIN 3 FEET OF THE FINAL SAW CUT.
- FULL TACK COAT COVERAGE ON ALL VERTICAL AND EXISTING HOT MIX ASPHALT (HMA) SURFACES.
- 1-1/2" SURFACE COURSE IF EXISTING HMA IS GREATER THAN OR EQUAL TO 3" THICK. IF HMA IS LESS THAN 3" THICK, REPLACE WITH FULL DEPTH HMA.

STANDARD TRENCH DETAIL NARROW TRENCH AND SMALL HOLES

STD. DWG. NO. **115**
PAGE 2 OF 6

PIPE SIZE*	TRENCH WIDTH (MIN.)
15"	36"
18"	48"
24"	54"
30"	60"
36"	72"

PIPE MUST BE CENTERED IN THE TRENCH. *INSIDE DIAMETER.

TRENCH BACKFILL

(TYPE TO BE SHOWN ON PLANS)

PIPE BEDDING

NOTES:

- RELATIVE COMPACTION IS DESIGNATED RC.
- 1/2" PIPE O.D. MINIMUM WHEN EXCAVATION IS IN ROCKY GROUND.
- PIPE DIAMETER 18" OR LESS: 6" MIN., 6" MAX. PIPE DIAMETER GREATER THAN 18": 9" MIN., 12" MAX. SEE TABLE ABOVE FOR HDPE PIPE TRENCH WIDTHS.

STANDARD TRENCH DETAIL TRENCH BACKFILL

STD. DWG. NO. **115**
PAGE 3 OF 6

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- WHEN MANHOLES ARE INSTALLED IN UNIMPROVED AREAS, THE TOP OF THE COVER SHALL BE A MIN. OF 1 FOOT ABOVE ADJACENT FINISHED GRADE.
- MIN. OF ONE 3" AND ONE 6" GRADE ADJUSTMENT RINGS. MAX. HEIGHT OF GRADE ADJUSTMENT RINGS = 20". ALTERNATELY, CONTRACTOR MAY CAST GRADE ADJUSTMENT RINGS IN PLACE.
- SET ALL BARREL SECTIONS & TAPER SECTIONS IN PLASTIC GASKET, RAM-NEK OR APPROVED ALTERNATE. TYP. JOINT 1-1/2" (3/4" X 2-1/2") RAM-NEK SEAL (2 SEALS IN HIGH WATER TABLE AREAS).
- CONE SECTION (TAPER) MUST BE CONCENTRIC FOR 48" MANHOLE UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE DISTRICT.
- CONSTRUCT ALL FLOW CHANNELS OF PIPE WHEREVER POSSIBLE. AFTER LOWER RING SECTION IS SET, BREAK OUT TOP HALF OF PIPE FLUSH WITH INSIDE FACE OF M.H. WALL AND CONSTRUCT SHELF AND U-SHAPED CHANNEL. MAKE ELEVATION CHANGES GRADUALLY AND DIRECTIONAL CHANGES WITH SMOOTH CURVES.
- POURED-IN-PLACE BASE SHALL BE POURED FULL THICKNESS TO UNDISTURBED SIDES OF EXCAVATION OR SHALL BE FORMED. PRECAST BASE TO BE FROM A DISTRICT APPROVED LIST AND PLACED ON 12" THICK 3/4" DRAIN ROCK SUBBASE INSTALLED AGAINST UNDISTURBED EARTH.
- JOINT BETWEEN BASE AND BARREL TO BE SEALED W/1-1/2" (3/4" X 2-1/2") RAM-NEK SEAL (2 SEALS IN HIGH WATER TABLE AREAS), AND PLASTER 6" FILLET, 1:3 MORTAR.
- CLASS "A" CONC. COLLAR SHALL BE 2" BELOW FINISHED GRADE.
- STANDARD MANHOLE BARREL SECTION PER ASTM C478.
- BARREL AND TAPER SECTIONS MAY BE CAST IN PLACE AS APPROVED BY THE DISTRICT.
- 48" I.D. MANHOLE TO BE USED ONLY FOR SEWER MAINS LESS THAN 18" DIAMETER AND LESS THAN 8 FT. DEEP FROM FINISHED GRADE. 60" I.D. MANHOLES PER STD. 133 FOR ALL OTHER APPLICATIONS.
- ALL SECTIONS OF MANHOLE MUST BE OF IDENTICAL MAKE AND MANUFACTURER.
- MANHOLE TO BE DETERAISED AND DRY PRIOR TO INSPECTION.

STANDARD 48" DIA. PRECAST CONCRETE MANHOLE SANITARY SEWER

STD. DWG. NO. **132**
PAGE 1 OF 1

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE DISTRICT.
- ABANDONED PIPES, 12" AND LARGER, SHALL BE BROKEN INTO EVERY 50' AND SHALL BE FILLED COMPLETELY WITH SAND SLURRY.

PERMANENT MAINLINE CLEANOUT

STD. DWG. NO. **135**
PAGE 1 OF 1

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE DISTRICT.
- ABANDONED PIPES, 12" AND LARGER, SHALL BE BROKEN INTO EVERY 50' AND SHALL BE FILLED COMPLETELY WITH SAND SLURRY.

ABANDONED PIPE PLUG DETAIL

STD. DWG. NO. **138**
PAGE 1 OF 1

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE DISTRICT.
- ABANDONED PIPES, 12" AND LARGER, SHALL BE BROKEN INTO EVERY 50' AND SHALL BE FILLED COMPLETELY WITH SAND SLURRY.

PIPE BURSTING CONNECTION TO EX. MANHOLE

STD. DWG. NO. **138**
PAGE 1 OF 1

TRENCH HMA PAVING TABLE	
STREET TYPE	MIN. HMA THICKNESS
RESIDENTIAL / LOCAL	0.25"
COLLECTOR / TRANSITIONAL	0.35"
ARTERIAL / REGIONAL / INDUSTRIAL	0.45"

NOTES:

- THIS DETAIL IS APPLIES FOR WATER AND SEWER CROSSINGS ONLY.
- INSTALL CDF BACKFILL SPRINGLINE TO SPRINGLINE.
- INSTALL CDF BACKFILL FROM NEW SANITARY SEWER SPRINGLINE TO 6-INCHES ABOVE THE TOP OF THE EXISTING PIPE.
- PROVIDE PROPER SUPPORT OF EXISTING PIPE ABOVE NEW SANITARY SEWER MAIN.
- INSTALL 1/2" STYROFOAM WHERE CONCRETE COMES IN CONTACT WITH PIPE.

CDF SADDLE

STD. DWG. NO. **138**
PAGE 1 OF 1

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

PROJECT NUMBER: 95-4340
 DRAWING DATE: MAY 2021
 SHEET NUMBER: 6 OF 36

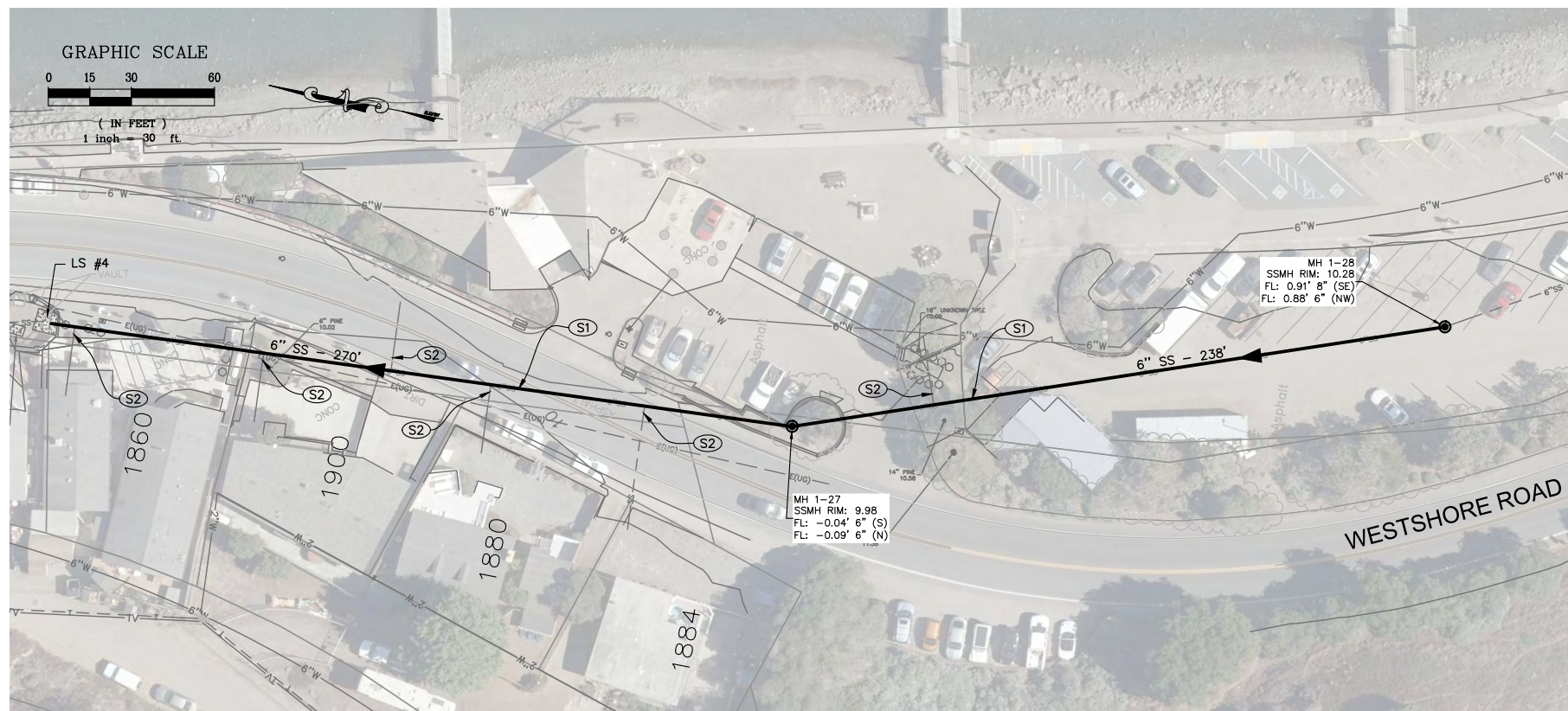
Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax

PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY: JAM WK/CG/SE REVIEWED BY: GRH
 DRAWN BY: WK/CG/SE

ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

Xref: CDE-ENGINEERS STAMPS-PLAN.dwg; 95-4340_TP-1.dwg; 95-4340_TP-1-LATERALS.dwg; Bodega Bay Base.dwg; 95-4340_JUL-1.dwg
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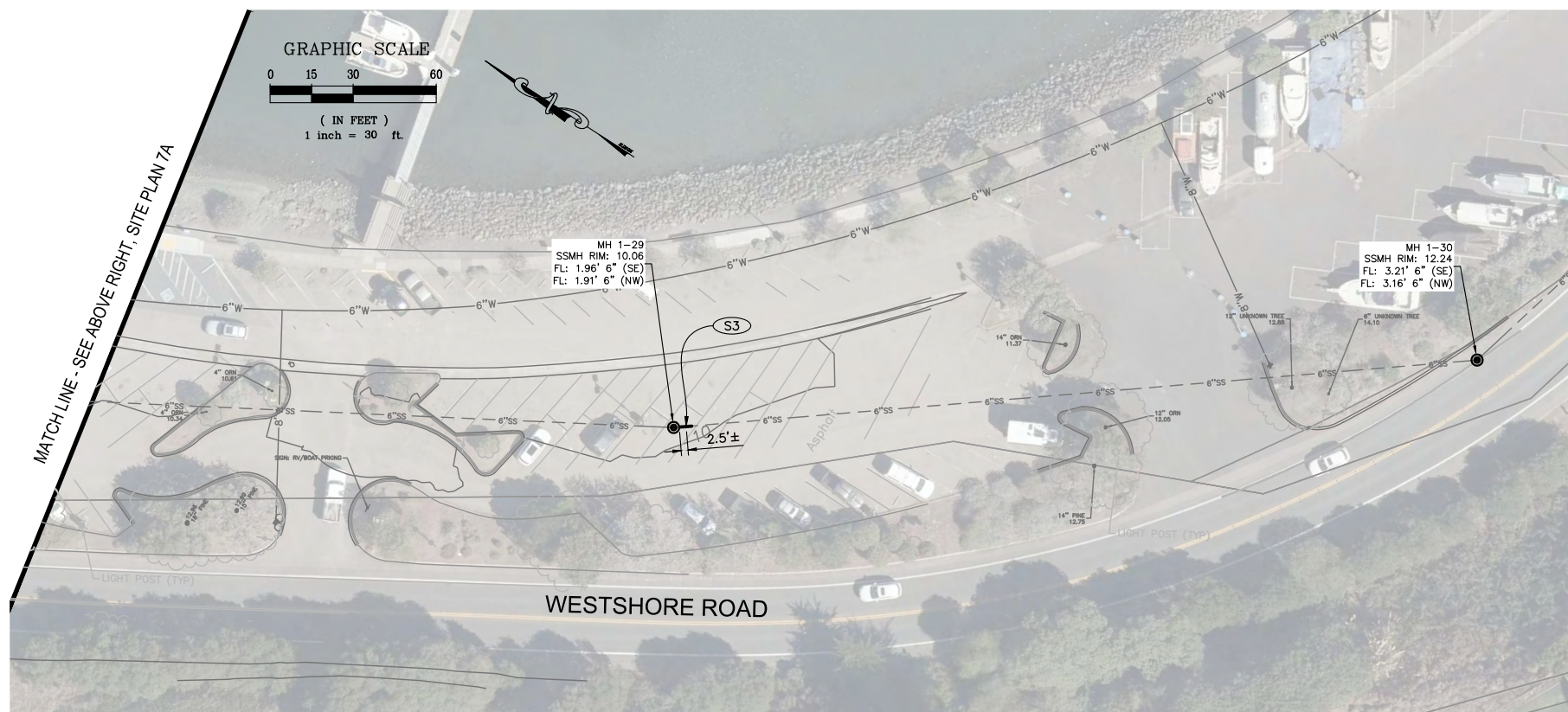


SITE PLAN 7A

MATCH LINE - SEE BELOW LEFT, SITE PLAN 7B

CONSTRUCTION NOTES

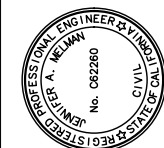
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.



SITE PLAN 7B

MATCH LINE - SEE SHEET 8, SITE PLAN 8A

PRELIMINARY
50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH



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 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax 707.571.8005

CALIFORNIA

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

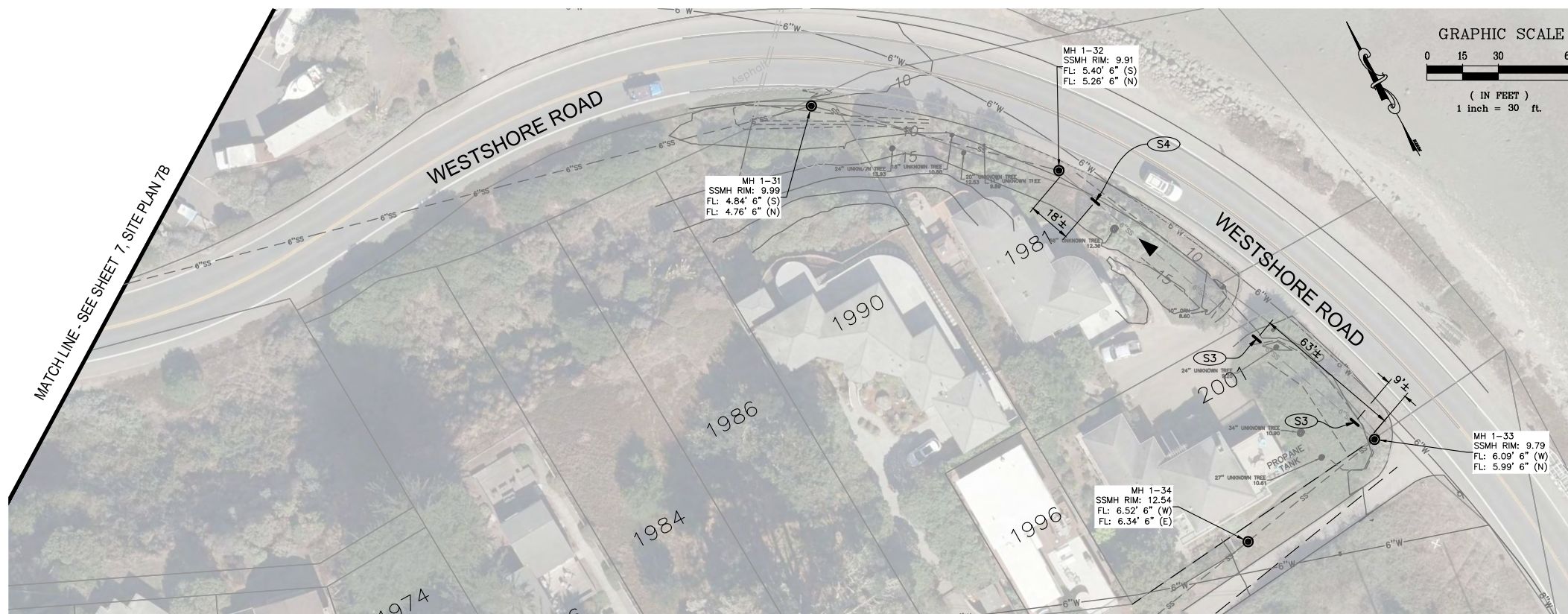
SITE PLAN - 7A & 7B

PROJECT NUMBER
95-4340
 DRAWING DATE
MAY 2021
 SHEET NUMBER
7 OF 36

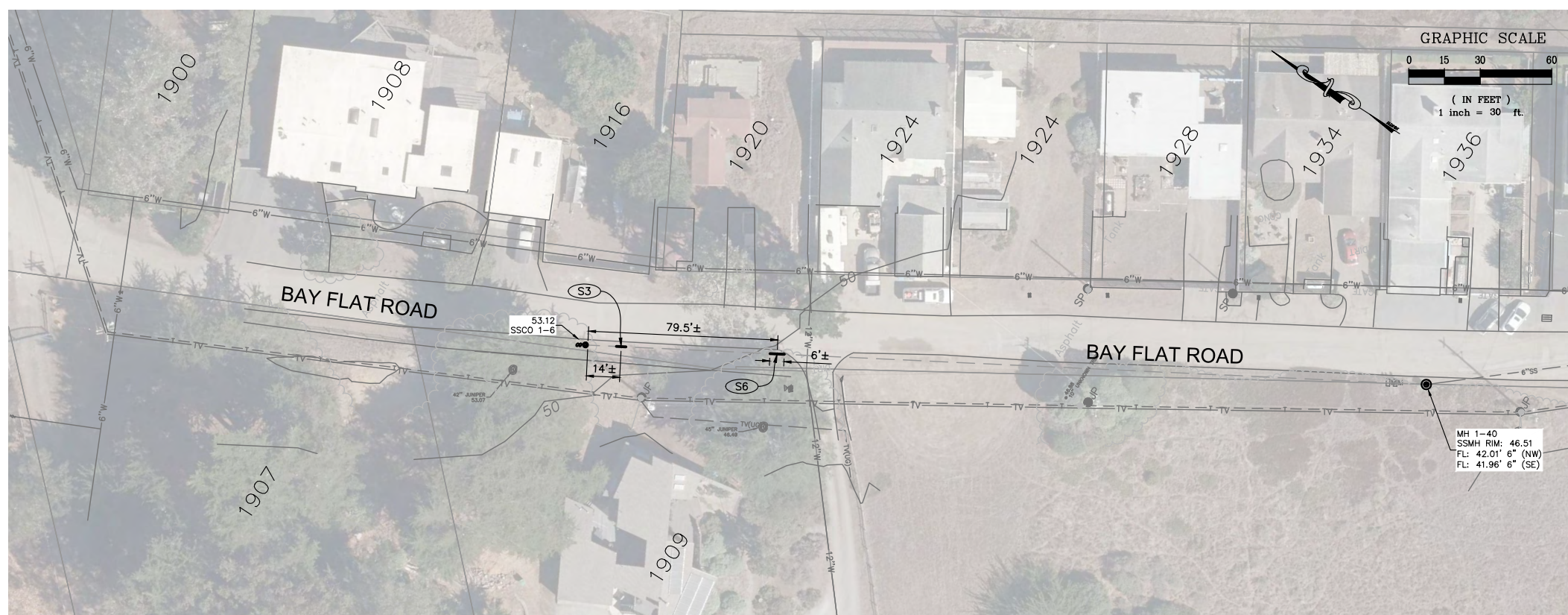
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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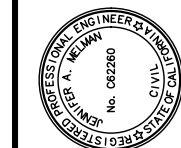


SITE PLAN 8A



SITE PLAN 8B

- CONSTRUCTION NOTES**
- (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED ON LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
 - (S4) REMOVE EXPOSED GASKET PRIOR TO CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED ON LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
 - (S6) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, LENGTH AS SHOWN, CENTERED ON LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.



PREPARED UNDER THE DIRECTION OF
JENNIFER A. MELMAN, RCE C62260 DATE
DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
DATE



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1400 Neotomas Avenue, Santa Rosa, CA 95405
707.571.8005

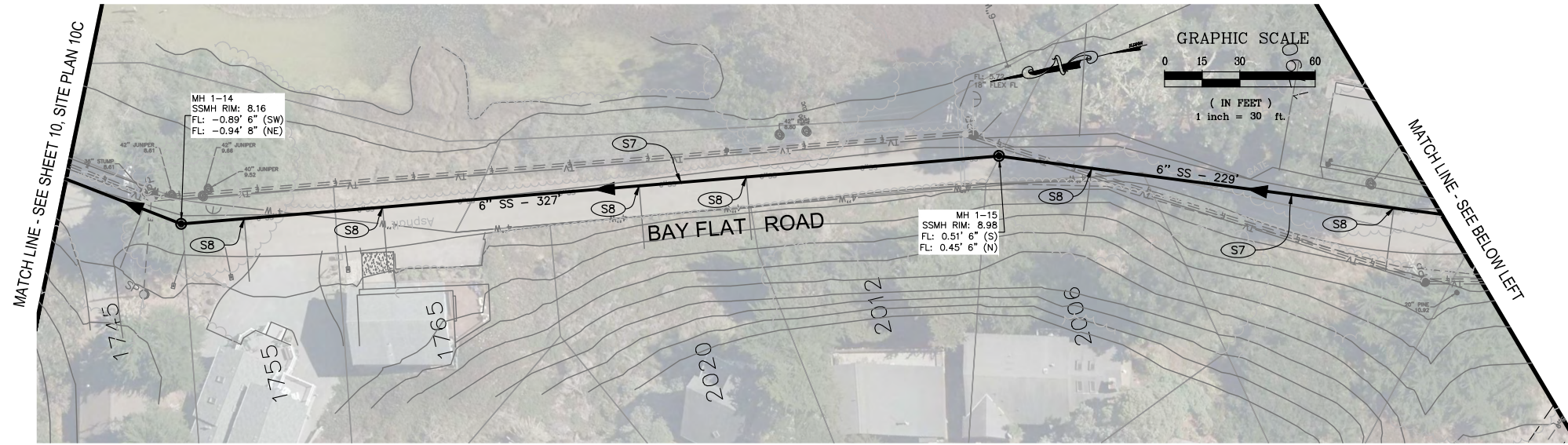
CALIFORNIA
BODEGA BAY PUBLIC UTILITY DISTRICT
2021 SEWER REHABILITATION PROJECT
SITE PLAN - 8A & 8B

PROJECT NUMBER
95-4340
DRAWING DATE
MAY 2021
SHEET NUMBER
8 OF 36

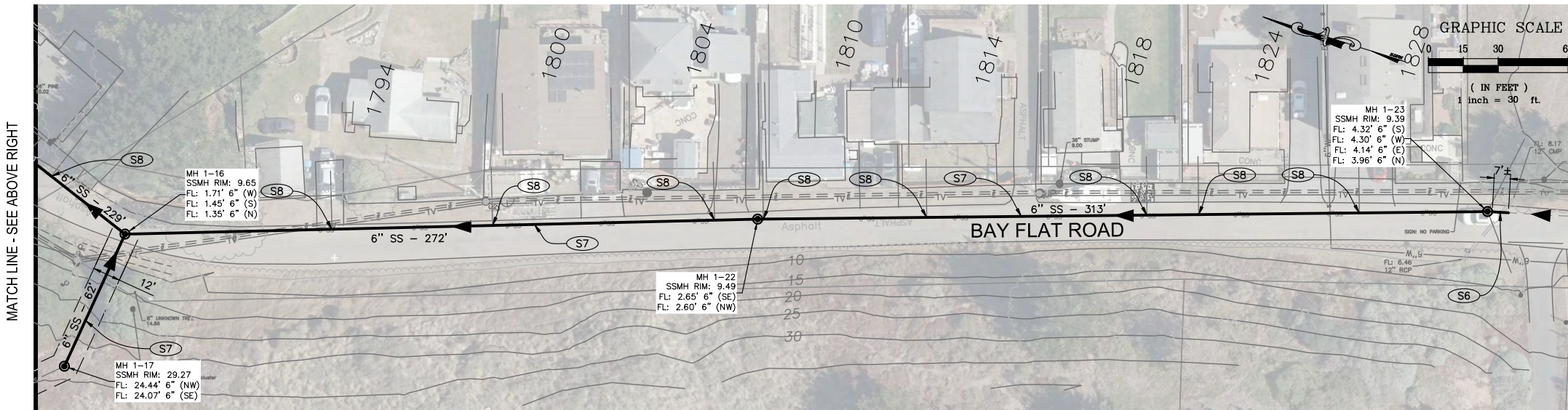
PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021

Xref: CCE-ENGINEERS STAMPS-PLAN.dwg;95-4340_TP-1.dwg;95-4340_TP-1-LATERALS.dwg;Bodega Bay Base.dwg;95-4340_Ult-1.dwg
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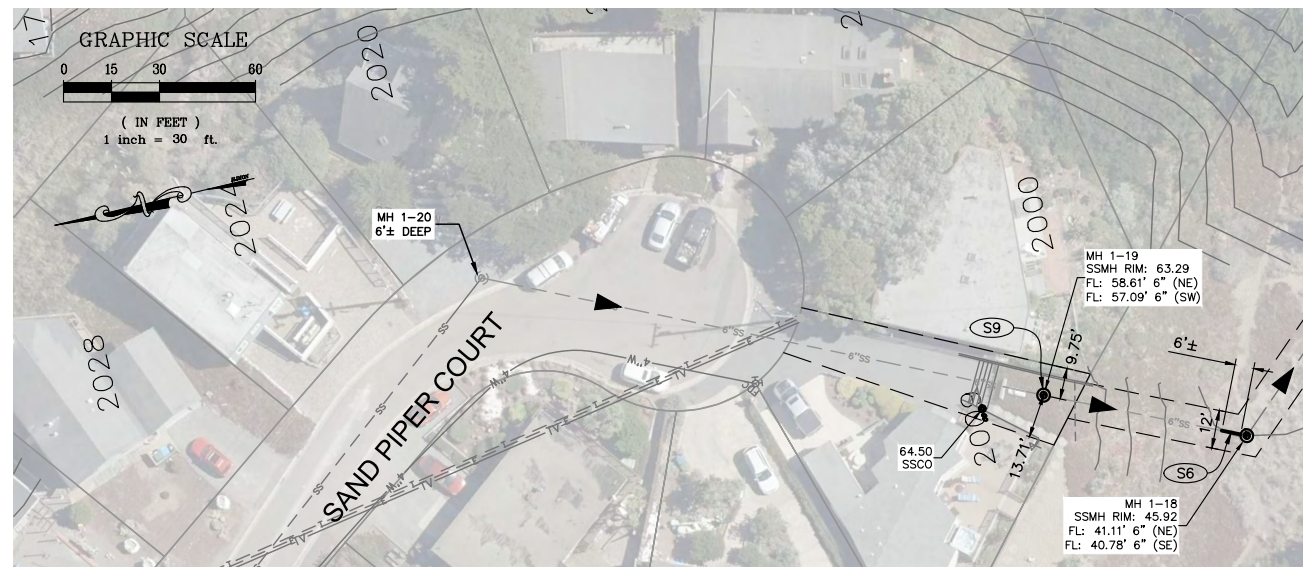
FOR REDUCED PLANS, THE 0
 ORIGINAL SCALE IS IN INCHES



SITE PLAN 9A



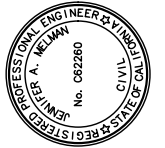
SITE PLAN 9B



SITE PLAN 9C

CONSTRUCTION NOTES

- (S6) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, LENGTH AS SHOWN, CENTERED ON LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
- (S7) REPLACE EXISTING 6" AC SANITARY SEWER PIPE WITH 6" HDPE VIA PIPE-BURSTING.
- (S8) RECONNECT ACTIVE LATERALS TO SANITARY SEWER REHABILITATED VIA PIPE-BURSTING METHODS WITH THERMAL-FUSED TEE FITTING AND STAINLESS STEEL-BANDED RUBBER COUPLINGS PER SPECIFICATIONS.
- (S9) TRIM ROOTS AT SEWER MAIN CONNECTION TO MANHOLE. FILL GAPS AND COAT INTERIOR PER SPECIFICATIONS.



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
 WK/CG/SF

Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax 707.571.8005

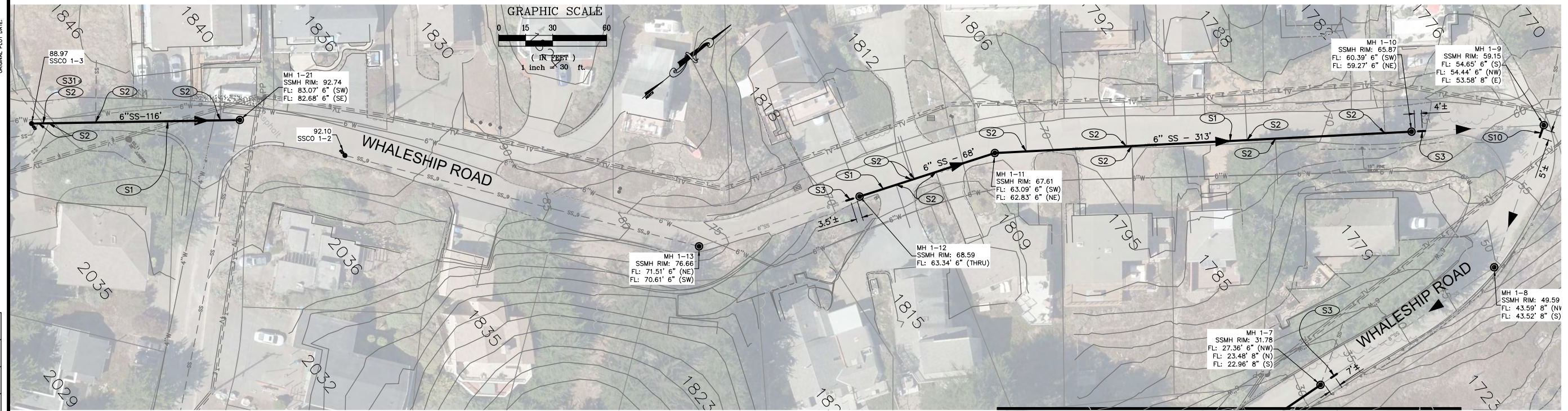
CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY

PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 9 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

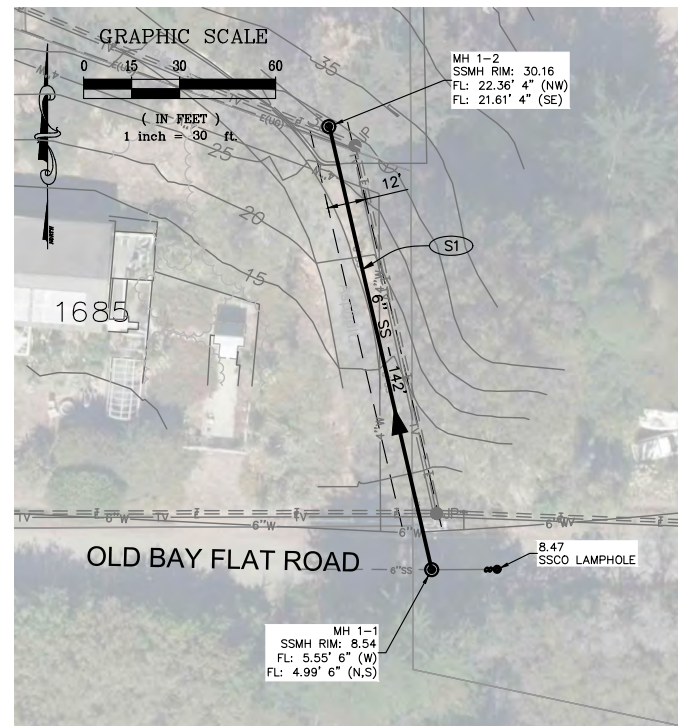
SITE PLAN - 9A, 9B & 9C

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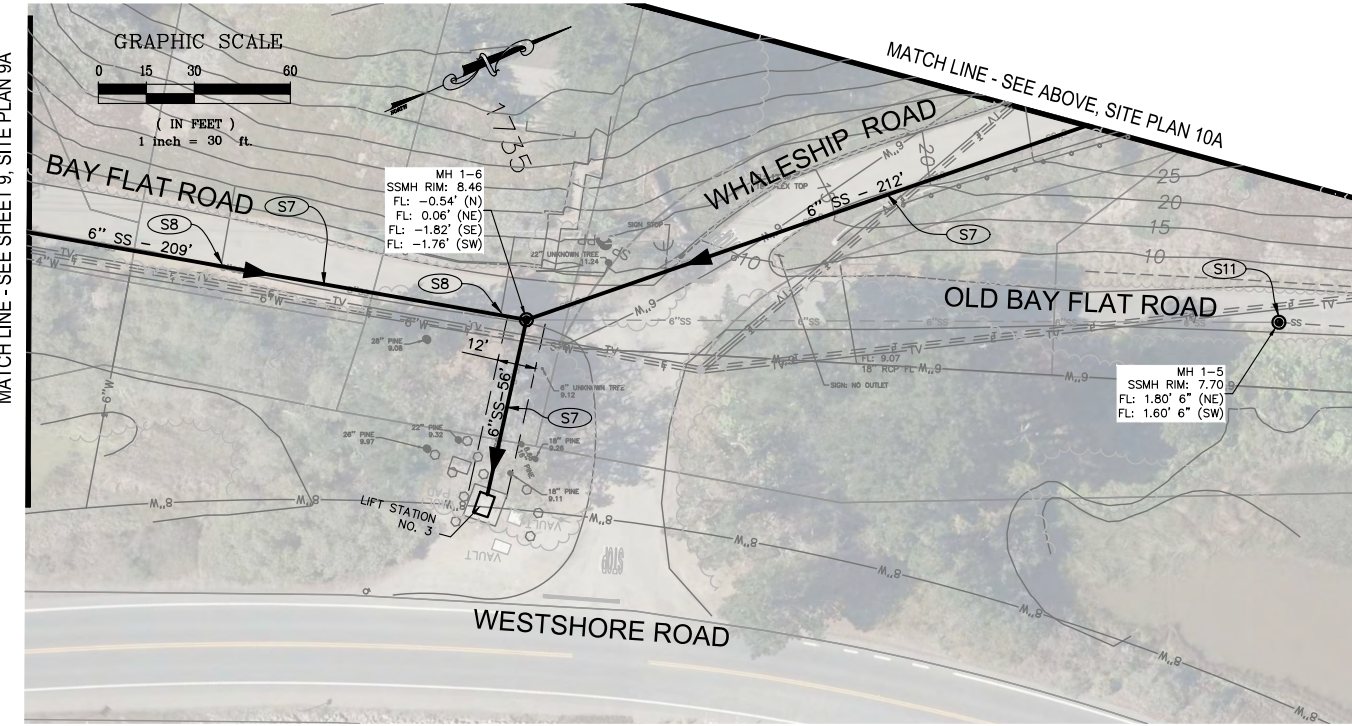


SITE PLAN 10A

MATCH LINE - SEE BELOW RIGHT, SITE PLAN 10C



SITE PLAN 10B



SITE PLAN 10C

CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
- (S7) REPLACE EXISTING 6" AC SANITARY SEWER PIPE WITH 6" HDPE VIA PIPE-BURSTING.
- (S8) RECONNECT ACTIVE LATERALS TO SANITARY SEWER REHABILITATED VIA PIPE-BURSTING METHODS WITH THERMAL-FUSED TEE FITTING AND STAINLESS STEEL-BANDED RUBBER COUPLINGS PER SPECIFICATIONS.
- (S9) TRIM ROOTS AT SEWER MAIN CONNECTION TO MANHOLE. FILL GAPS AND COAT INTERIOR PER SPECIFICATIONS.
- (S10) CONDUCT APPROXIMATELY 5' LONG OPEN-CUT POINT REPAIR OF 6" PVC PIPE TO REMOVE CEMENTED DEPOSITS IN LOCATION SHOWN. CONTRACTOR TO VERIFY LOCATION AND LENGTH OF REPAIR.
- (S11) SEAL MH LID AND RINGS AS NECESSARY TO CORRECT INFILTRATION RUNNER.
- (S31) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.

PRELIMINARY
50% SUBMITTAL
 DATE: 05/19/2021

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 CALIFORNIA
 PROJECT NUMBER: 95-4340
 DRAWING DATE: MAY 2021
 SHEET NUMBER: 10 OF 36

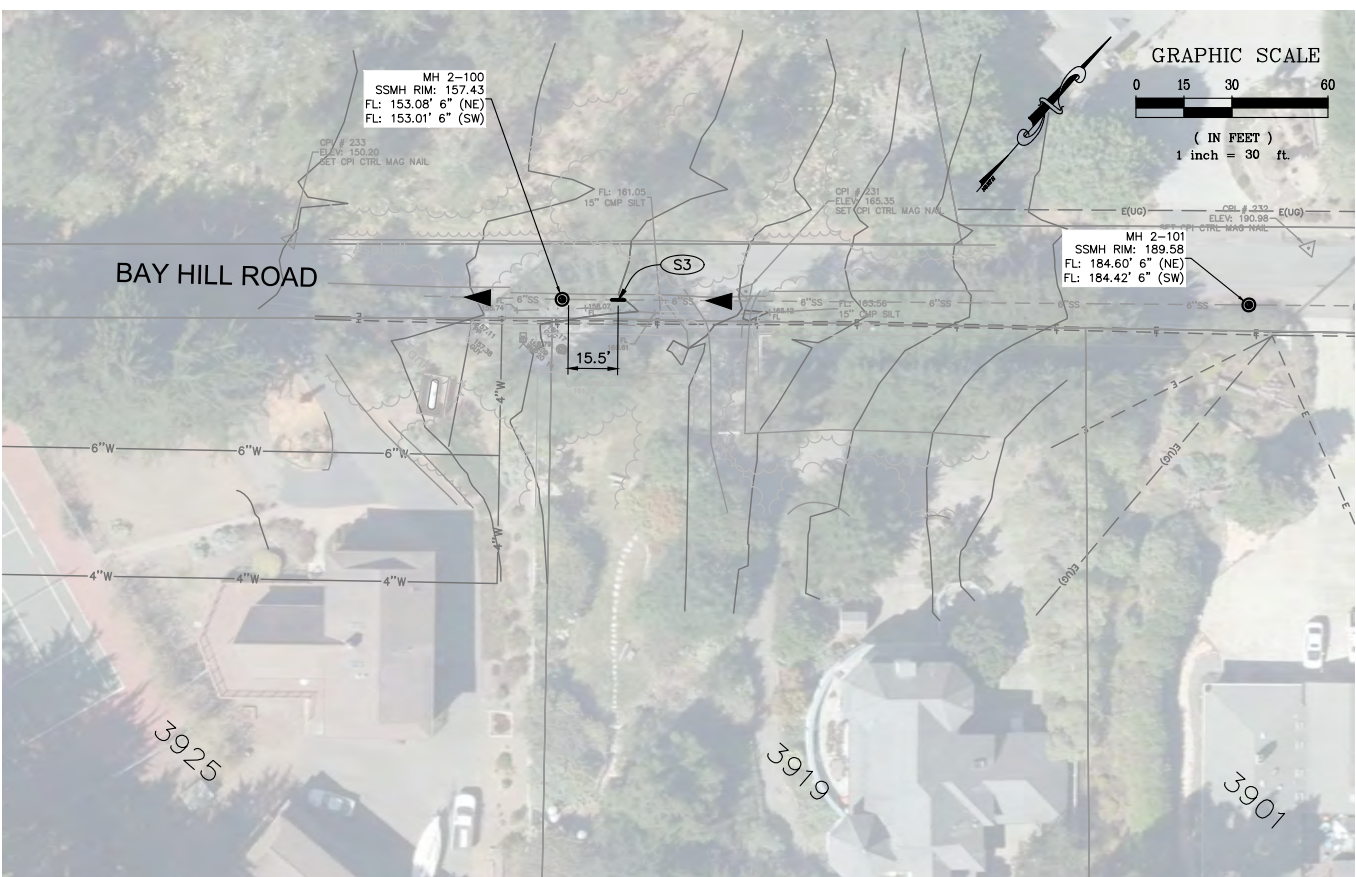
PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY: JAM DRAWN BY: WK/CG/SE REVIEWED BY: GRH
Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax 707.571.8005

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 CALIFORNIA
SITE PLAN - 10A, 10B & 10C

Xref: CCE-ENGINEERS STAMPS-PLAN.dwg-4340_TP-2-LATERALS.dwg-Bodega Bay Base.dwg-95-4340_UH-2.dwg-95-4340_TP-2-RTE-1.dwg-95-4340_TP-2-RTE-1.dwg-95-4340_TP-2-RTE-1.dwg-95-4340_TP-2-RTE-1.dwg-95-4340_TP-2-RTE-1.dwg-95-4340_TP-2-RTE-1.dwg
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 ORIGINAL SCALE IS IN INCHES
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SITE PLAN 11A



SITE PLAN 11B

CONSTRUCTION NOTES

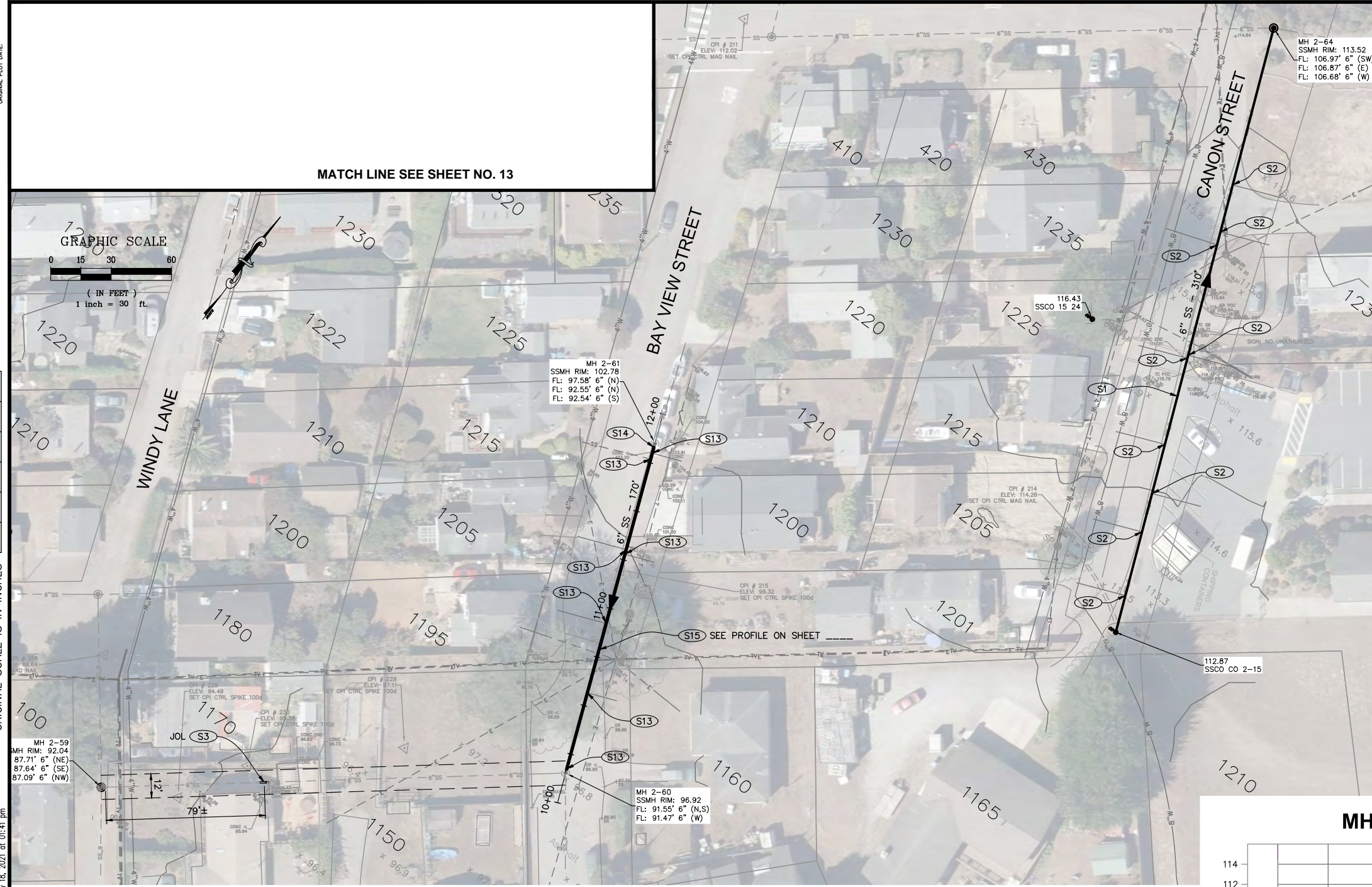
(S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.

(S6) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, LENGTH AS SHOWN, CENTERED ON LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.

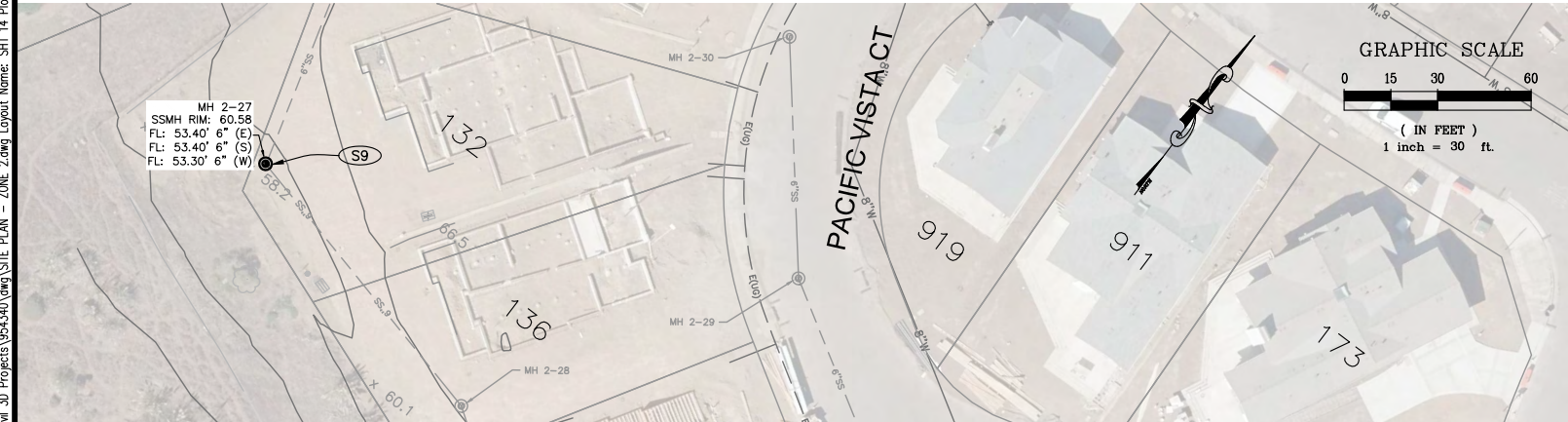
PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021

PREPARED UNDER THE DIRECTION OF JENNIFER A. MELMAN, RCE C62260 DATE DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH	 Coastland Civil Engineering, Inc. 1400 Neotomas Avenue, Santa Rosa, CA 95405 707.571.8003 Fax 707.571.8005	CALIFORNIA BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT SITE PLAN - 11A & 11B

Xref: CDE-ENGINEERS STAMPS-PLAN.dwg; 95-4340_IP-2-LATERALS.dwg; Bodge Bay Base.dwg; 95-4340_UH-2.dwg; 95-4340_IP-2-RTE-1.dwg; 95-4340_IP-2.dwg; 95-4340_IP-2.dwg; 2021 at 01:41 pm
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 ORIGINAL SCALE IS IN INCHES
 REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



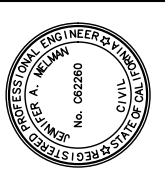
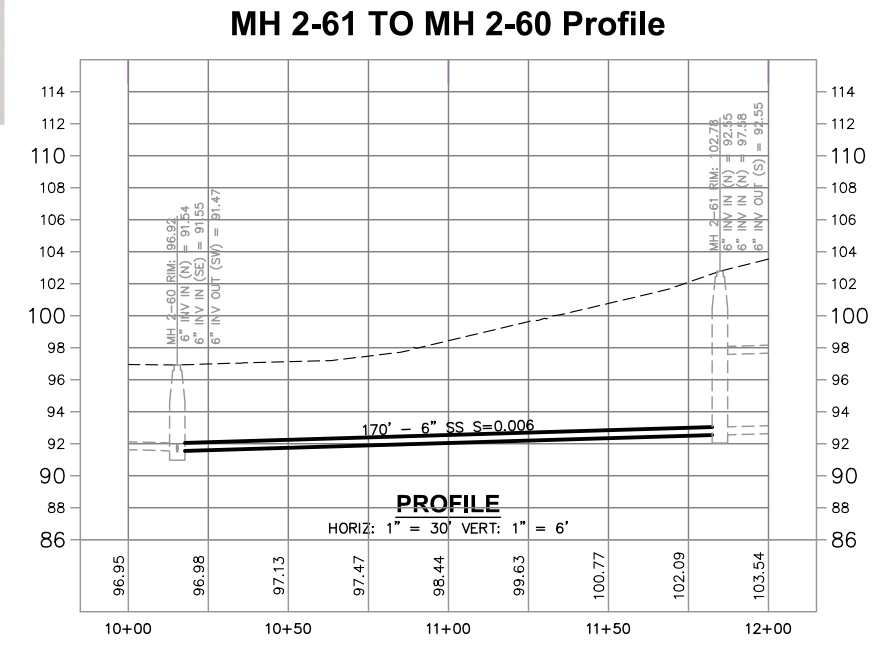
SITE PLAN 14A



SITE PLAN 14B

- ### CONSTRUCTION NOTES
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
 - (S9) TRIM ROOTS AT SEWER MAIN CONNECTION TO MANHOLE. FILL GAPS AND COAT INTERIOR PER SPECIFICATIONS.
 - (S13) RECONNECT ALL ACTIVE SEWER LATERALS TO REHABILITATED SEWER MAIN WITH NEW SANITARY WYE AND STAINLESS STEEL-BANDED RUBBER COUPLINGS PER SPECIFICATIONS.
 - (S14) CONNECT NEW SANITARY SEWER TO EXISTING MANHOLE. CONTRACTOR TO VERIFY INVERT PRIOR TO EXCAVATION.
 - (S15) REMOVE AND REPLACE 6" PVC SANITARY SEWER PIPE WITH PVC PIPE PER DISTRICT STD. 115.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF	DATE
JENNIFER A. MELMAN, RCE C62260	
DESIGNED BY	REVIEWED BY
JAM	WK/CG/SE
DRAWN BY	GRH

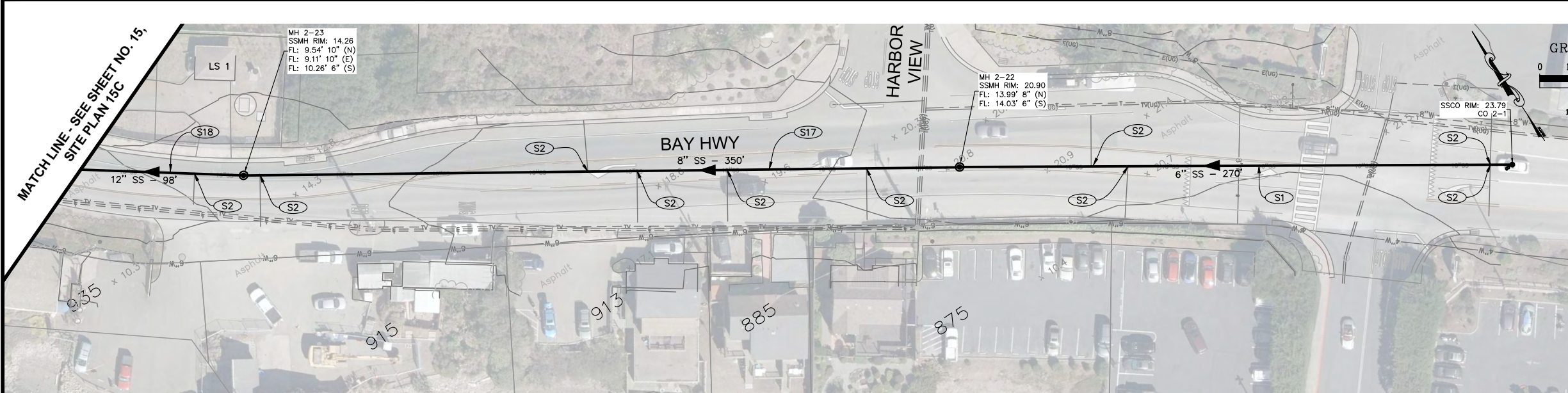
Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax

CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY

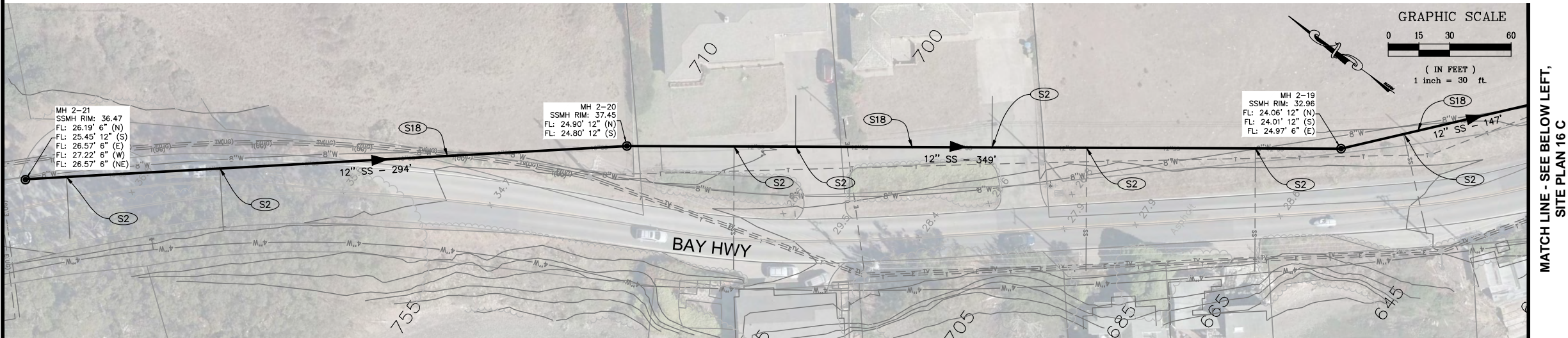
SITE PLAN - 14A & 14B

PROJECT NUMBER	95-4340
DRAWING DATE	MAY 2021
SHEET NUMBER	14 OF 36

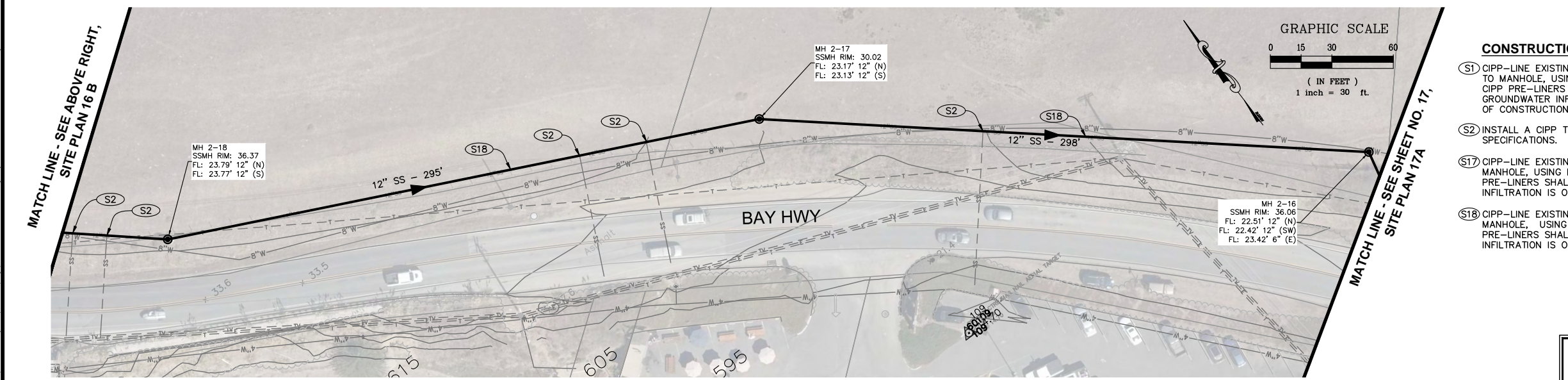
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 ORIGINAL SCALE IS IN INCHES



SITE PLAN 16A



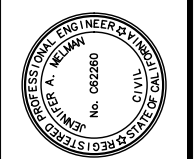
SITE PLAN 16B



SITE PLAN 16C

- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S17) CIPP-LINE EXISTING 8" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S18) CIPP-LINE EXISTING 12" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 WK/CG/SE

Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax 707.571.8005

CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY

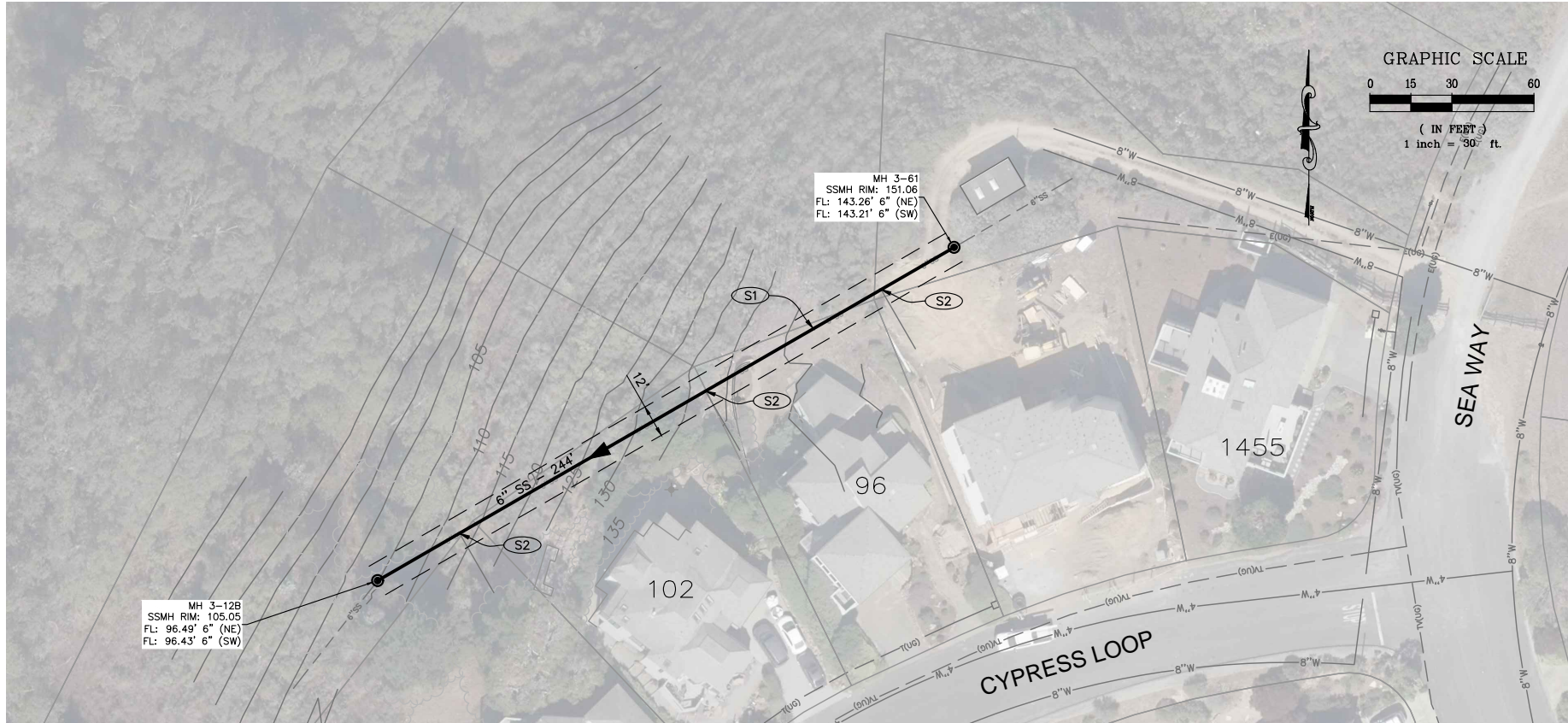
PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 16 OF 36

SITE PLAN - 16A, 16B & 16C

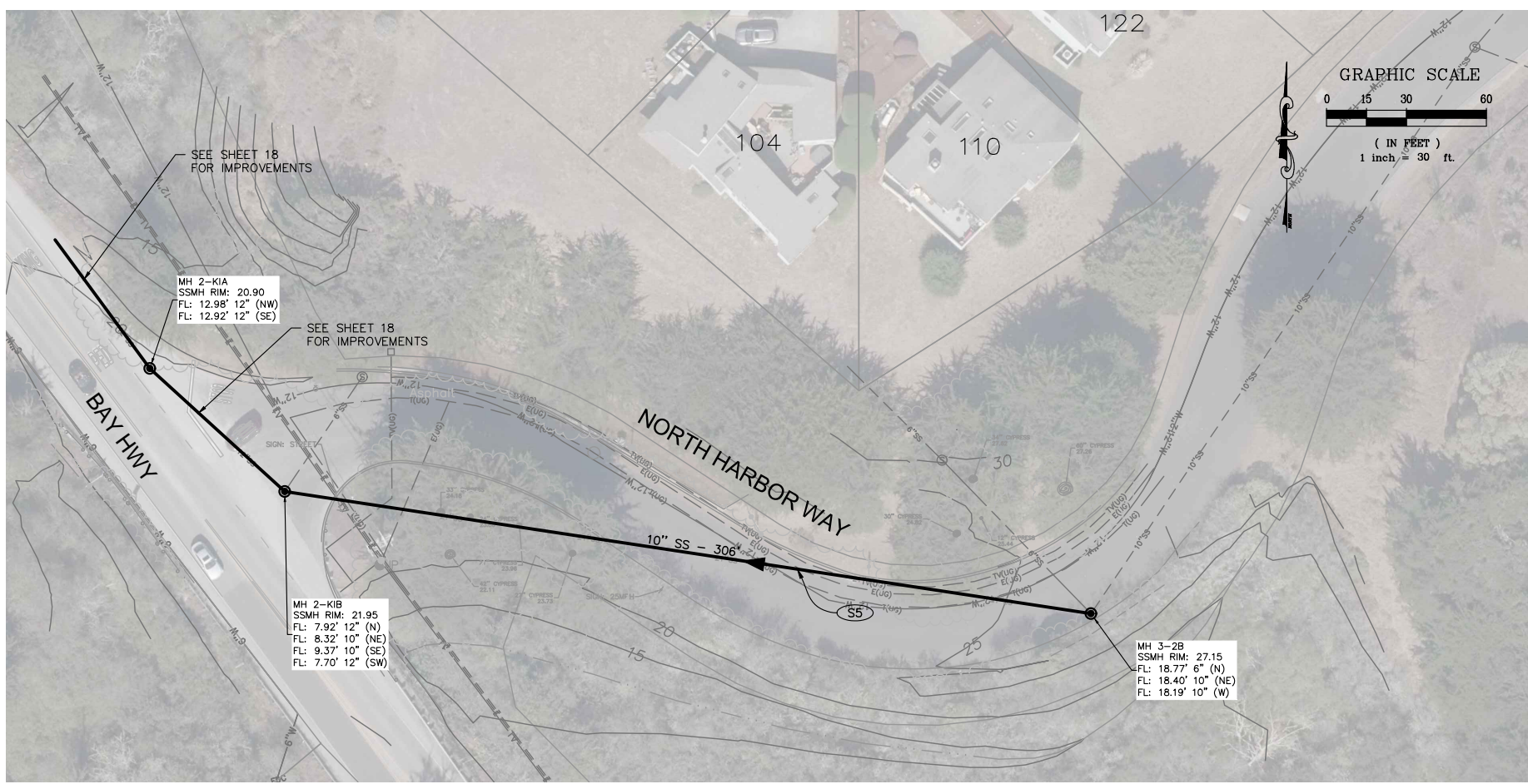
ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

Xref: CDE-ENGINEERS STAMPS-PLAN.dwg; 95-4340_IP-3.dwg; Bodega Bay Base.dwg; 95-4340_IP-3-LATERALS.dwg; 95-4340_IP-3.dwg
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SITE PLAN 19A

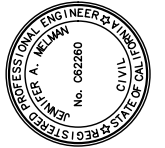


SITE PLAN 19B

CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S5) CIPP-LINE EXISTING 10" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.

PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
JENNIFER A. MELMAN, RCE C62260 DATE
DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH



Coastland Civil Engineering, Inc.
1400 Neotomas Avenue, Santa Rosa, CA 95405
707.571.8003 Fax 707.571.8005

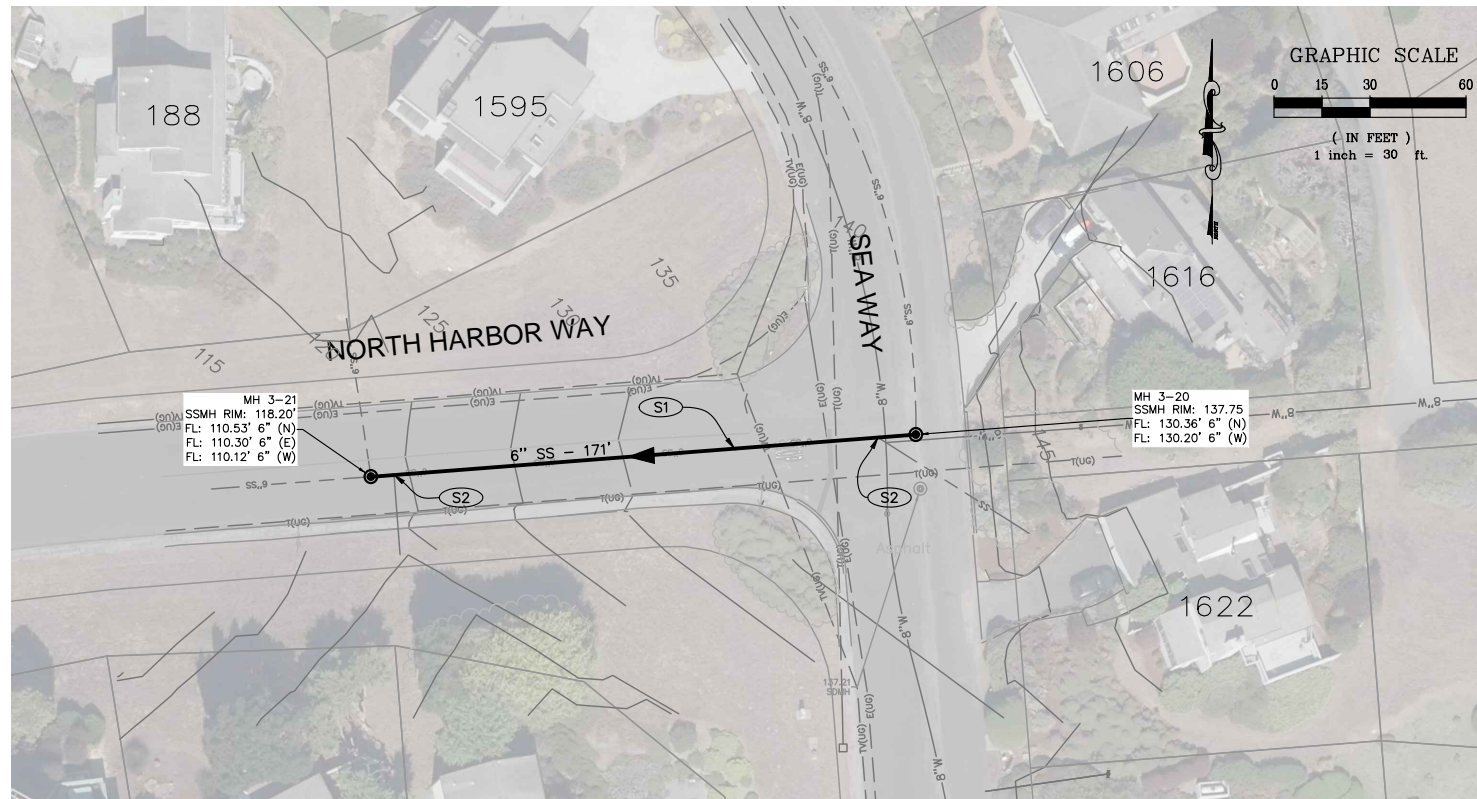
CALIFORNIA
BODEGA BAY PUBLIC UTILITY DISTRICT
2021 SEWER REHABILITATION PROJECT
SITE PLAN - 19A & 19B

PROJECT NUMBER 95-4340
DRAWING DATE MAY 2021
SHEET NUMBER 19 OF 36

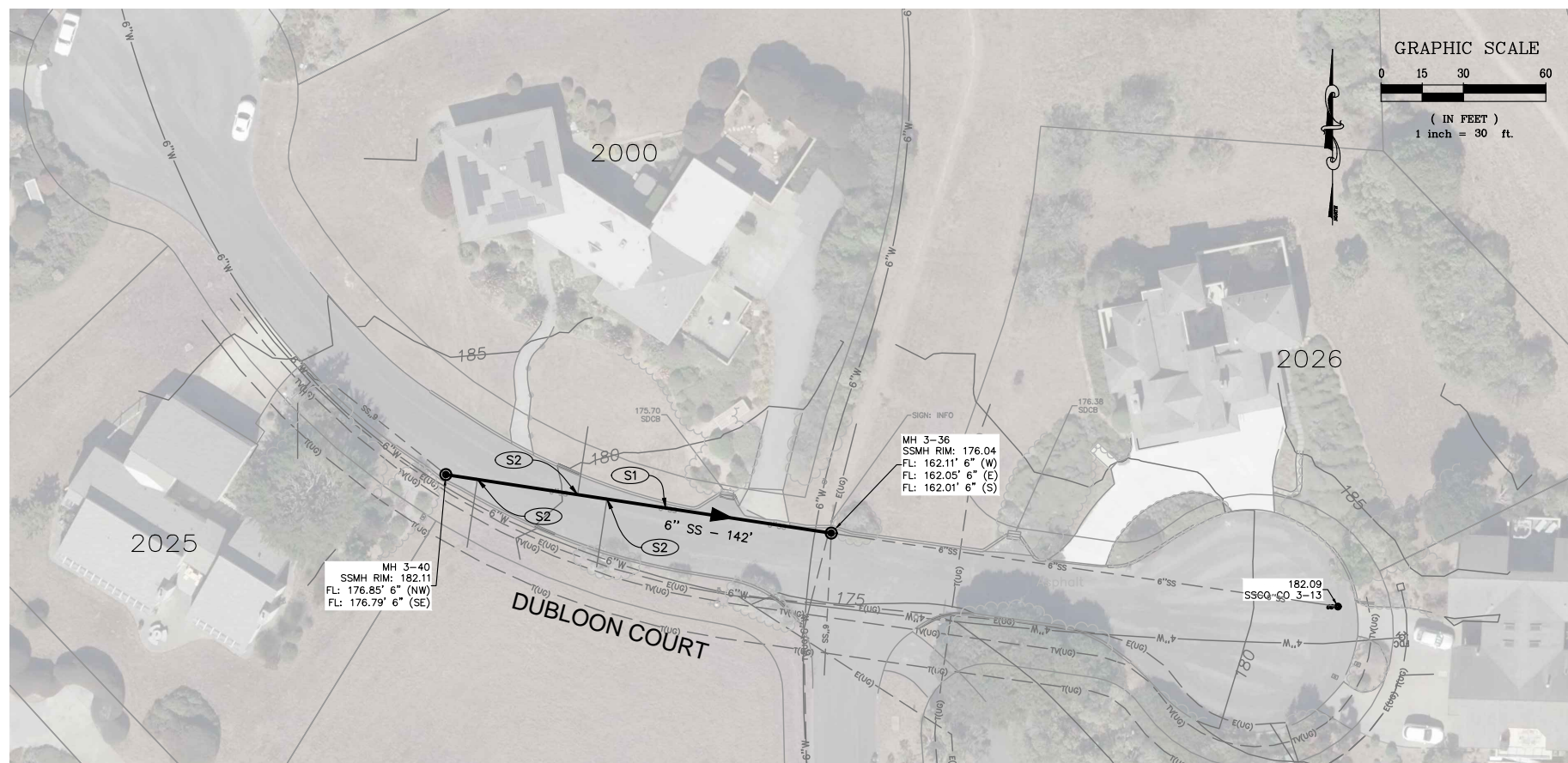
ORIGINAL PLOT DATE:

FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

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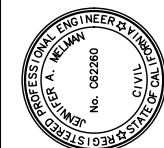
SITE PLAN 20A



SITE PLAN 20B

CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.



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JENNIFER A. MELMAN, RCE C62260 DATE
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707.571.8005 Fax 707.571.8037

CALIFORNIA
BODEGA BAY
BODEGA BAY PUBLIC UTILITY DISTRICT
2021 SEWER REHABILITATION PROJECT
SITE PLAN - 20A & 20B

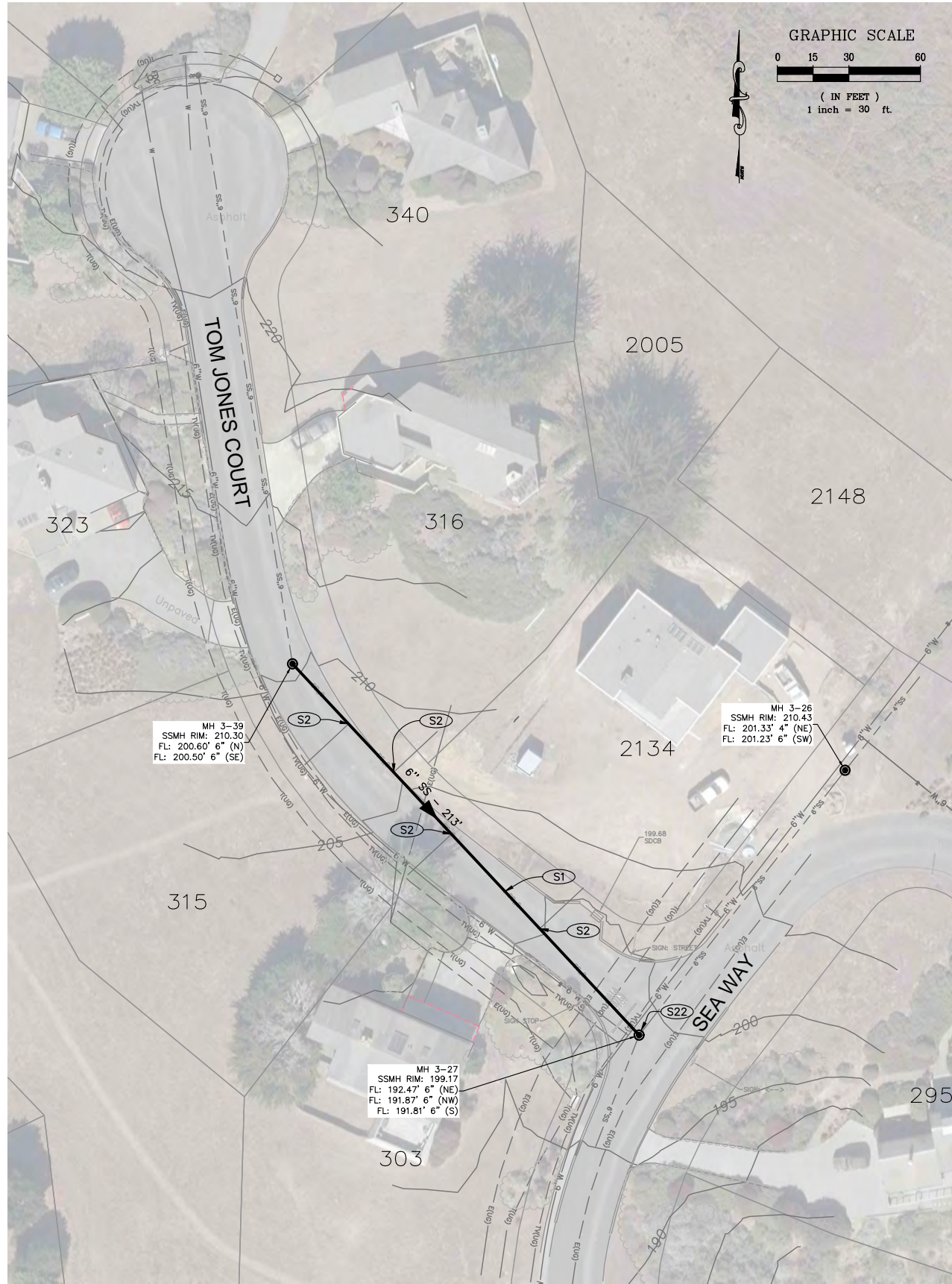
PROJECT NUMBER
95-4340
DRAWING DATE
MAY 2021
SHEET NUMBER
20 OF 36

PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_IP-3.dwg;Bodega Bay Base.dwg;95-4340_IP-3-LATERALS.dwg;95-4340_LULI-3.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

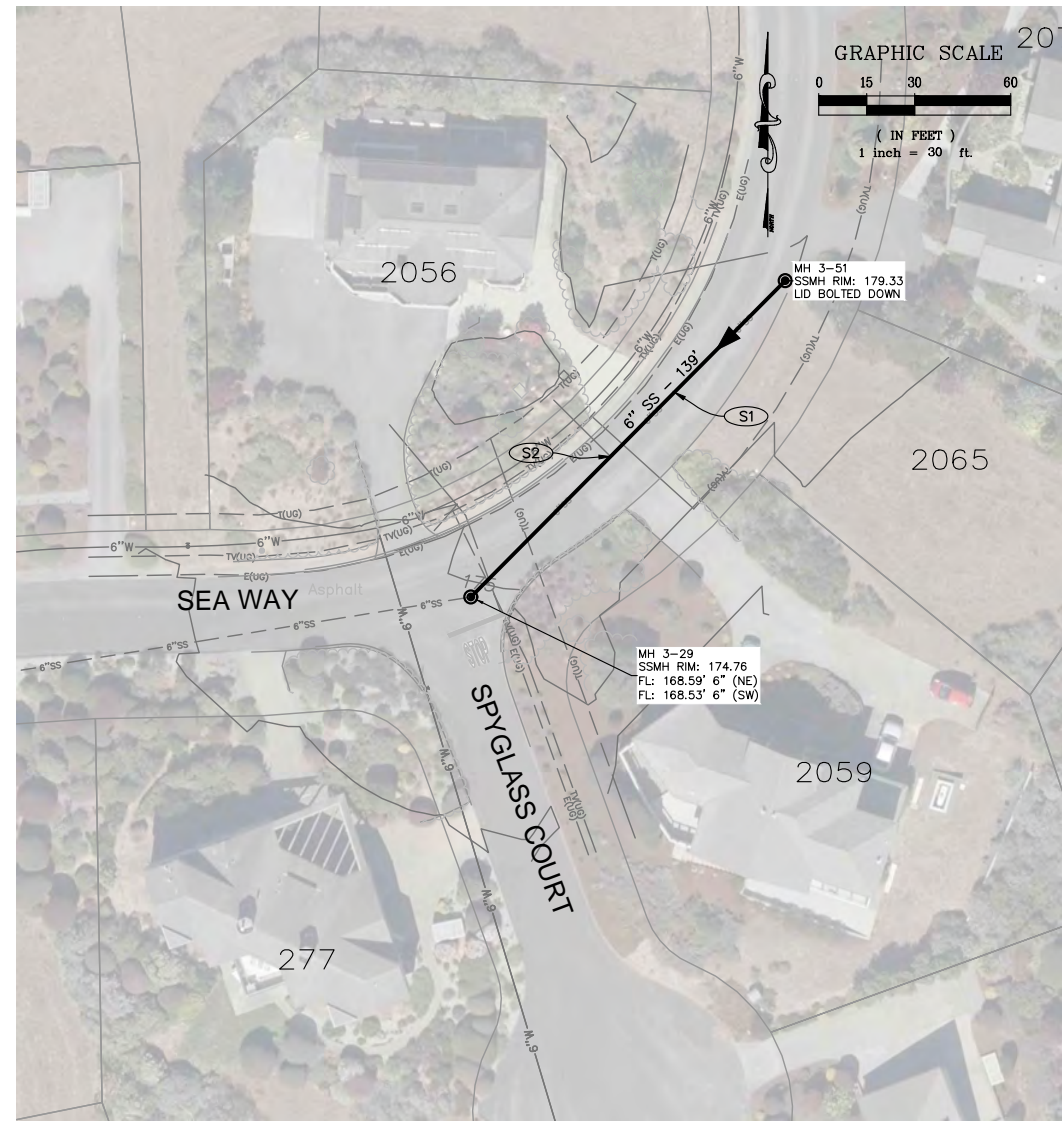
ORIGINAL PLOT DATE:



SITE PLAN 21A

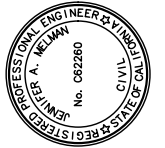
CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S22) TRIM ROOTS IN MANHOLE. FILL GAPS AND COAT MANHOLE INTERIOR PER SPECIFICATIONS.



SITE PLAN 21B

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
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 WK/CG/SF



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CALIFORNIA

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

BODEGA BAY

PROJECT NUMBER
 95-4340

DRAWING DATE
 MAY 2021

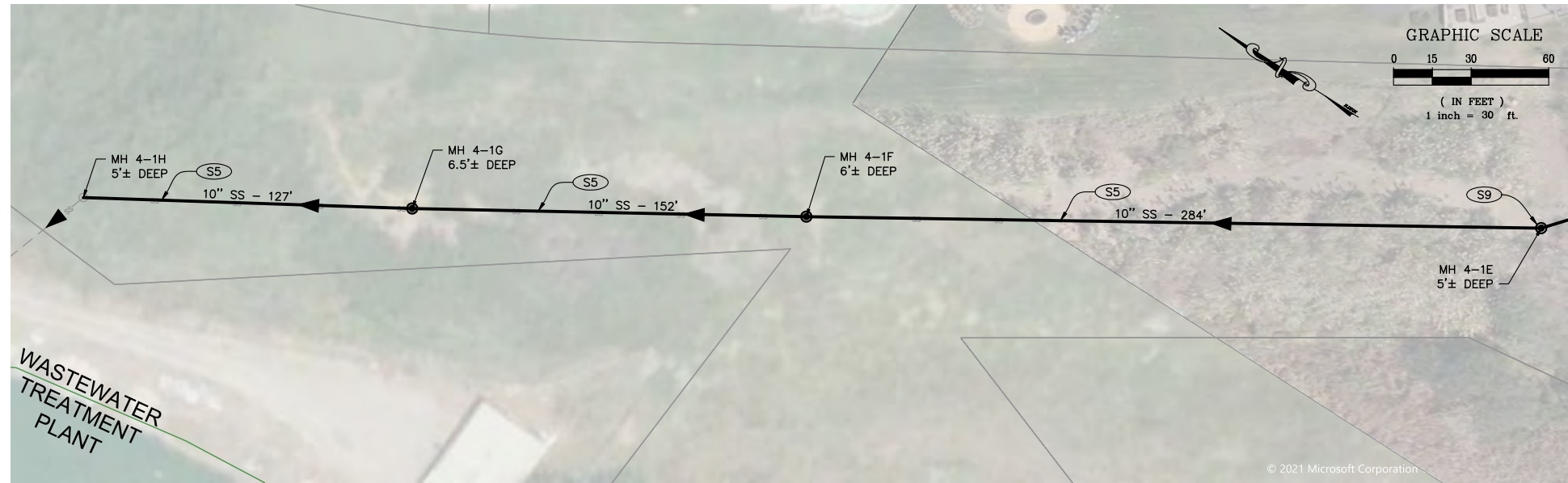
SHEET NUMBER
 21 OF 36

SITE PLAN - 21A & 21B

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

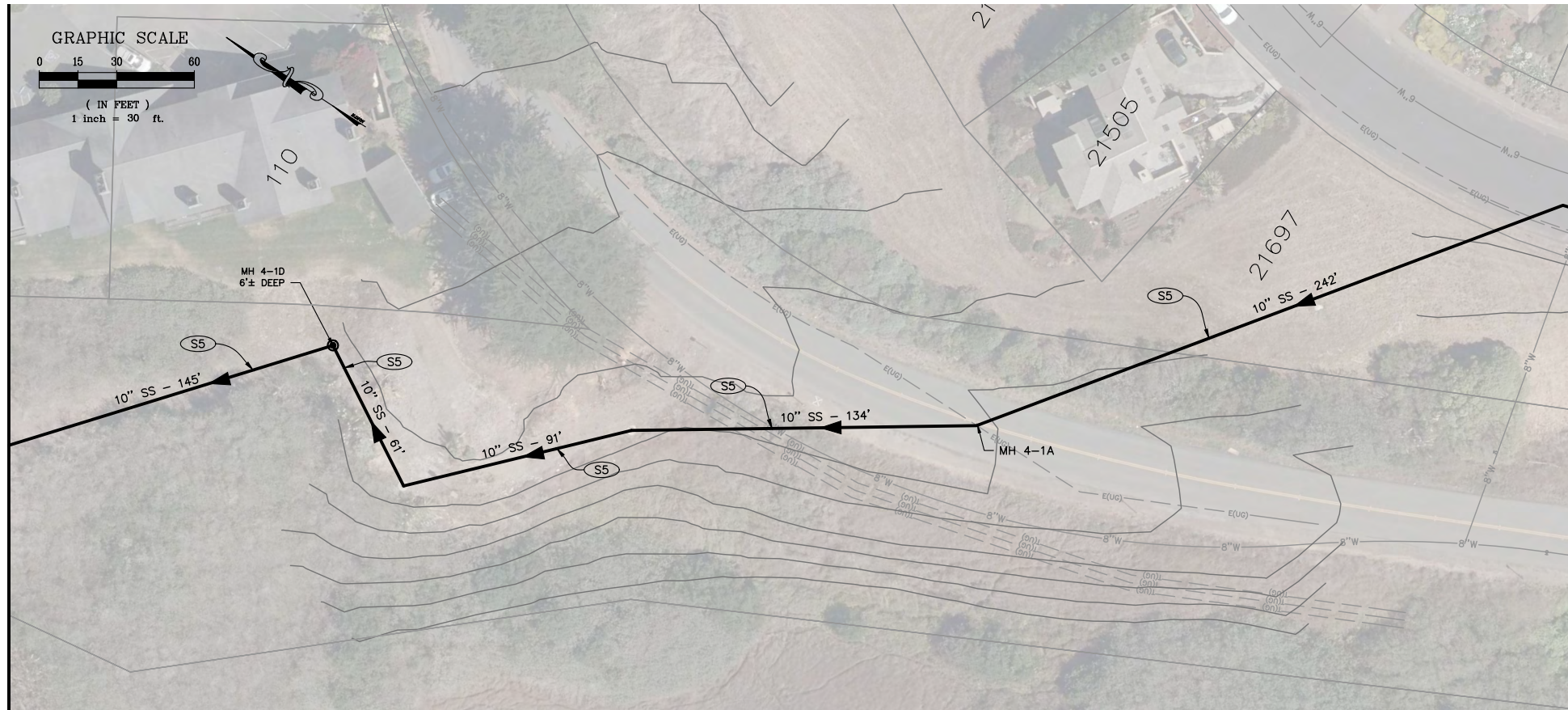
ORIGINAL PLOT DATE:



SITE PLAN 22A

MATCH LINE - SEE BELOW LEFT,
 SITE SITE PLAN 22B

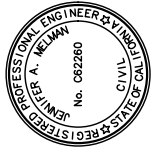
- CONSTRUCTION NOTES**
- (S5) CIPP-LINE EXISTING 10" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S9) TRIM ROOTS AT SEWER MAIN CONNECTION TO MANHOLE. FILL GAPS AND COAT INTERIOR PER SPECIFICATIONS.



SITE PLAN 22B

MATCH LINE - SEE SHEET NO. 23,
 SITE PLAN 23A

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF	JENNIFER A. MELMAN, RCE C62260	DATE	MAY 2021
DESIGNED BY	JAM	DRAWN BY	WK/CG/SF
REVIEWED BY	GRH		

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 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8005

BODEGA BAY CALIFORNIA

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

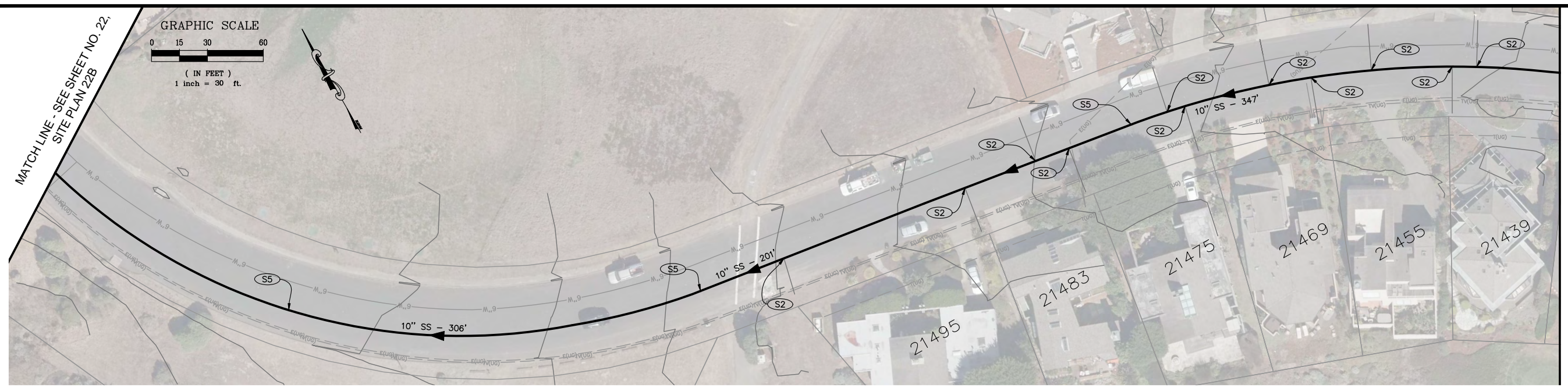
SITE PLAN - 22A & 22B

PROJECT NUMBER	95-4340
DRAWING DATE	MAY 2021
SHEET NUMBER	22 OF 36

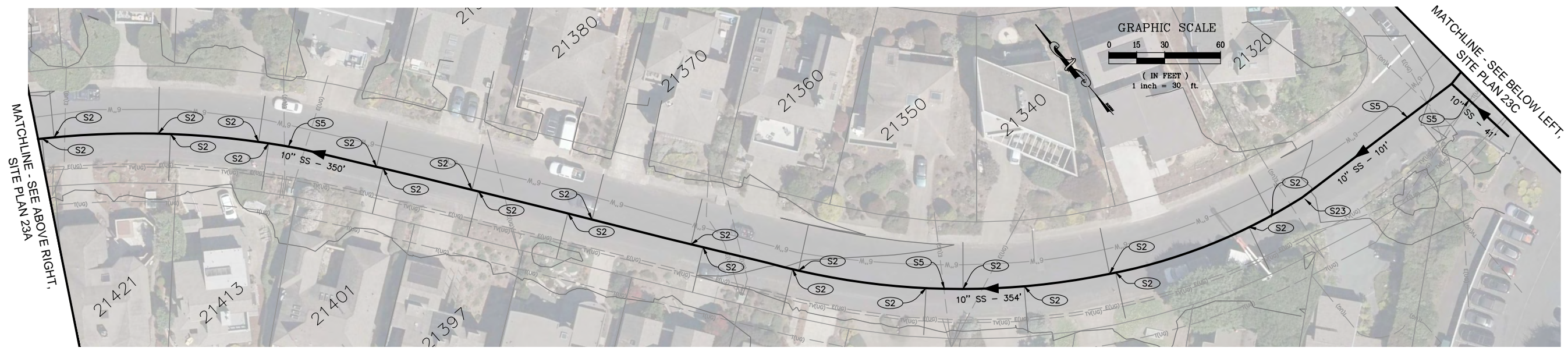
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

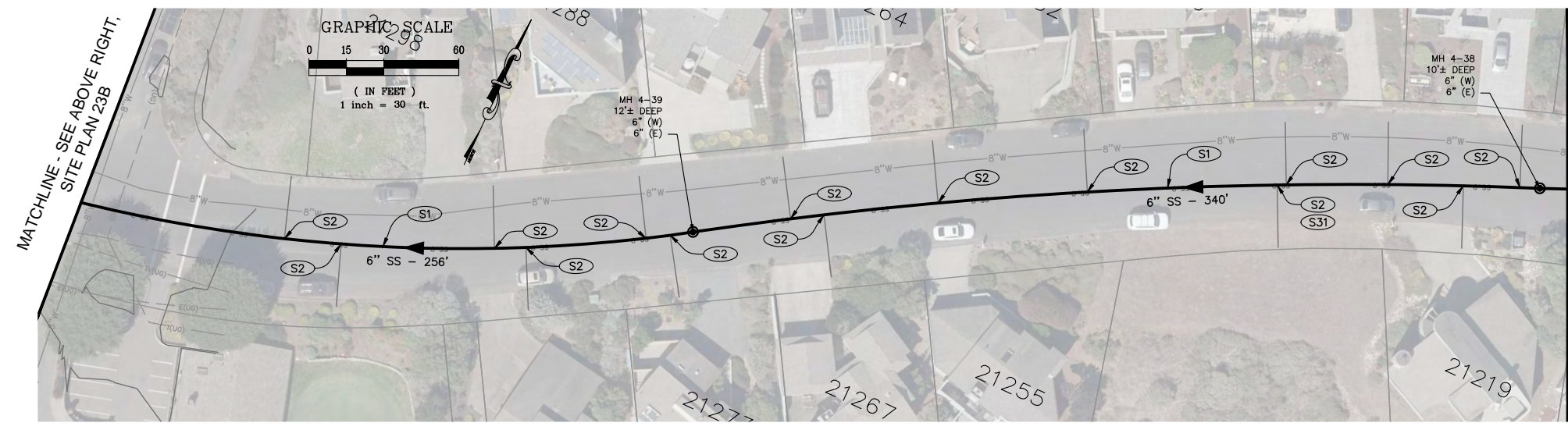
ORIGINAL PLOT DATE:



SITE PLAN 23A



SITE PLAN 23B



SITE PLAN 23C

MATCH LINE - SEE SHEET NO. 24, SITE PLAN 24A

CONSTRUCTION NOTES

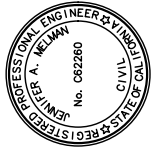
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S5) CIPP-LINE EXISTING 10" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S23) REPAIR MH 4-50.
- (S31) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

MATCH LINE - SEE BELOW LEFT, SITE PLAN 23B



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 707.571.8037 Fax



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 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 WK/CG/SE

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

CALIFORNIA

SITE PLAN - 23A, 23B & 23C

PROJECT NUMBER 95-4340

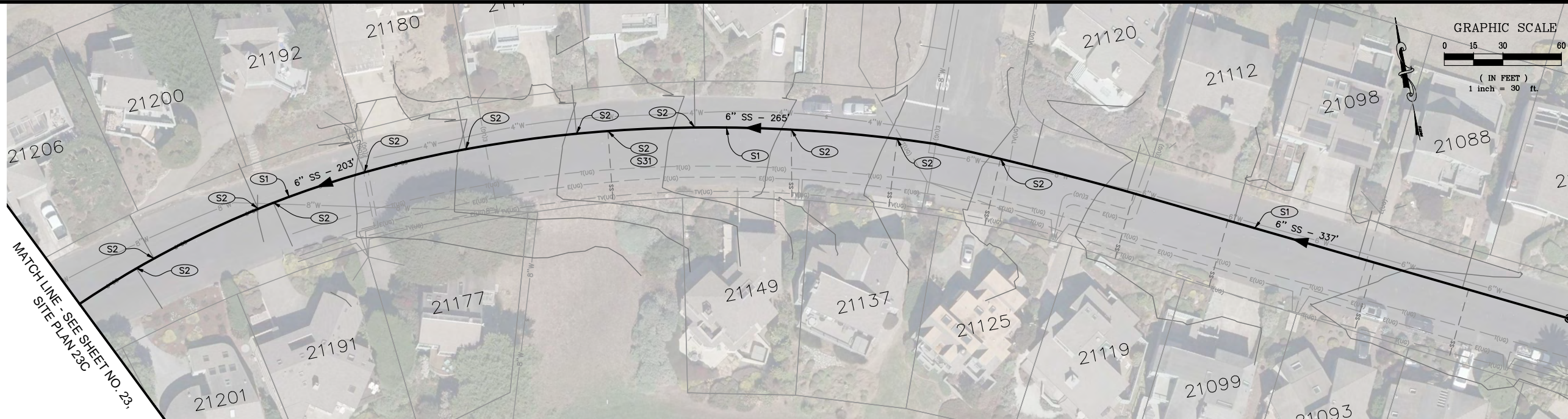
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SHEET NUMBER 23 OF 36

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

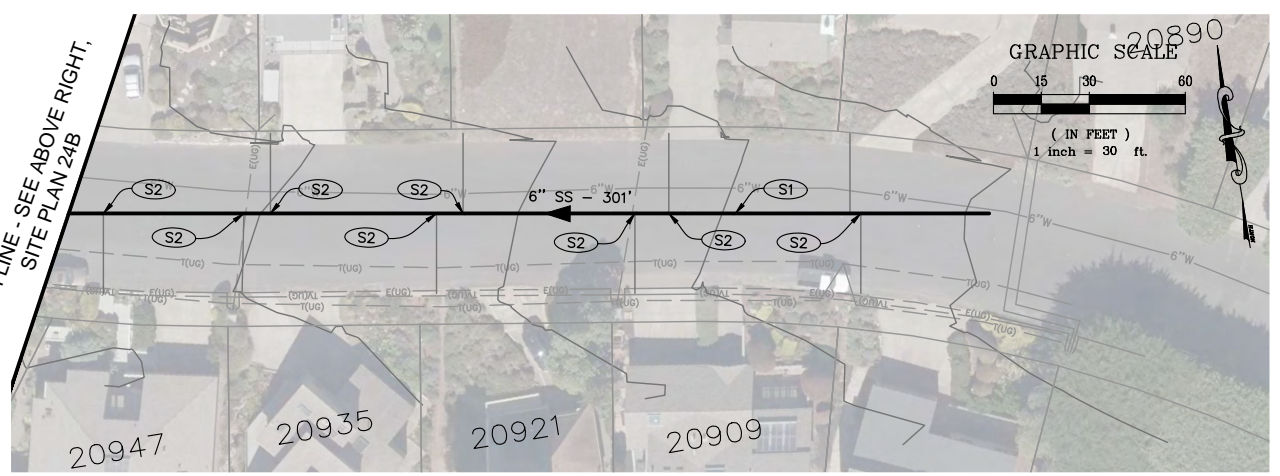
ORIGINAL PLOT DATE:



SITE PLAN 24A



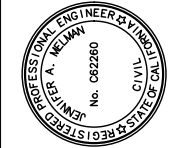
SITE PLAN 24B



SITE PLAN 24C

- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE. FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S3) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 WK/CG/SE

Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8037 Fax 707.571.8005

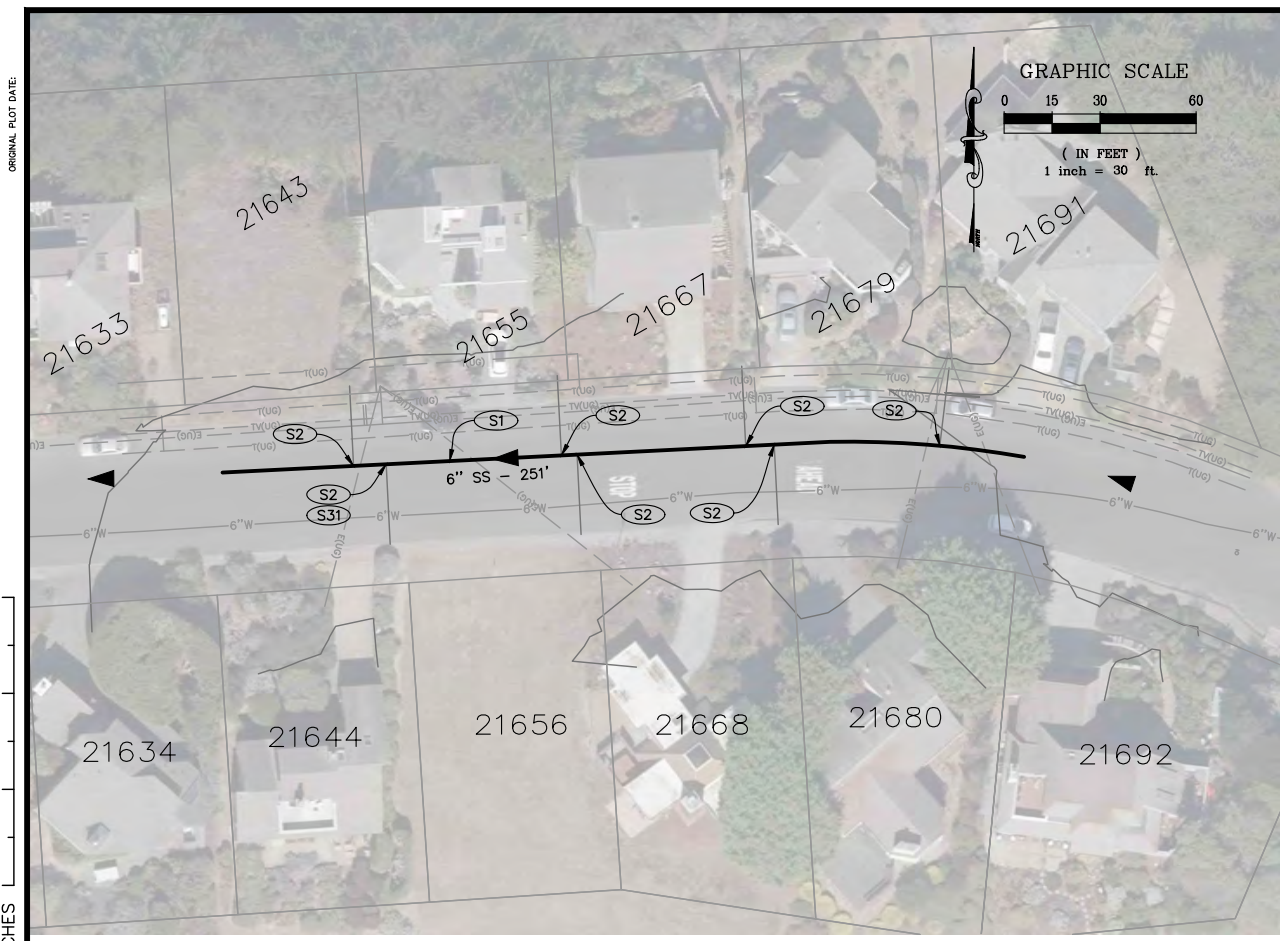
BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY CALIFORNIA

PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 24 OF 36

SITE PLAN - 24A, 24B & 24C

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_IP-4.dwg;Bodega Bay Base.dwg;95-4340_IP-4-LATERALS.dwg;95-4340_LULI-4.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



SITE PLAN 25A

CONSTRUCTION NOTES

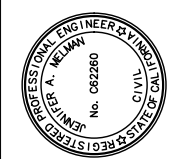
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S31) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.



SITE PLAN 25B

PRELIMINARY
50% SUBMITTAL
 DATE: 05/19/2021

BODEGA BAY BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT	CALIFORNIA	 Coastland Civil Engineering, Inc. 1400 Neotomas Avenue, Santa Rosa, CA 95405 707.571.8005	PREPARED UNDER THE DIRECTION OF	JENNIFER A. MELMAN, RCE C62260	DATE
			DESIGNED BY	DRAWN BY	REVIEWED BY
			JAM	WK/CG/SF	GRH
SITE PLAN - 25A & 25B		PROJECT NUMBER 95-4340	DRAWING DATE MAY 2021	SHEET NUMBER 25 OF 36	



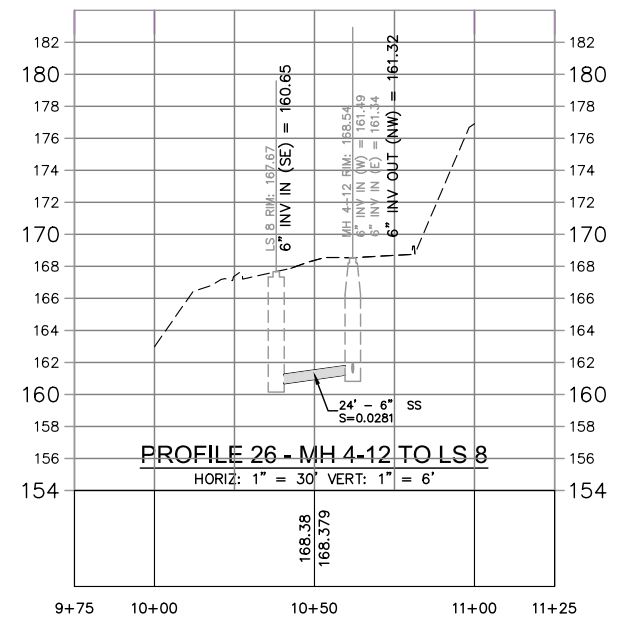
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FOR REDUCED PLANS, THE 0
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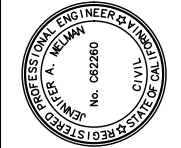
ORIGINAL PLOT DATE:



SITE PLAN 26



- CONSTRUCTION NOTES**
- (S14) CONNECT NEW SANITARY SEWER TO EXISTING MANHOLE. CONTRACTOR TO VERIFY INVERT PRIOR TO EXCAVATION.
 - (S24) REMOVE AND REPLACE 6" AC/CI SANITARY SEWER PIPE ADJACENT TO LIFT STATION 8 WITH PVC PIPE PER DISTRICT STD. 115.
 - (S34) REPLACE EXTERNAL MANHOLE DROP STRUCTURE PIPING AT LS 8.



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
 WK/CG/SF



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 1400 Neotomas Avenue, Santa Rosa, CA 95405
 707.571.8005 Fax 707.571.8037

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY CALIFORNIA

SITE PLAN & PROFILE -26

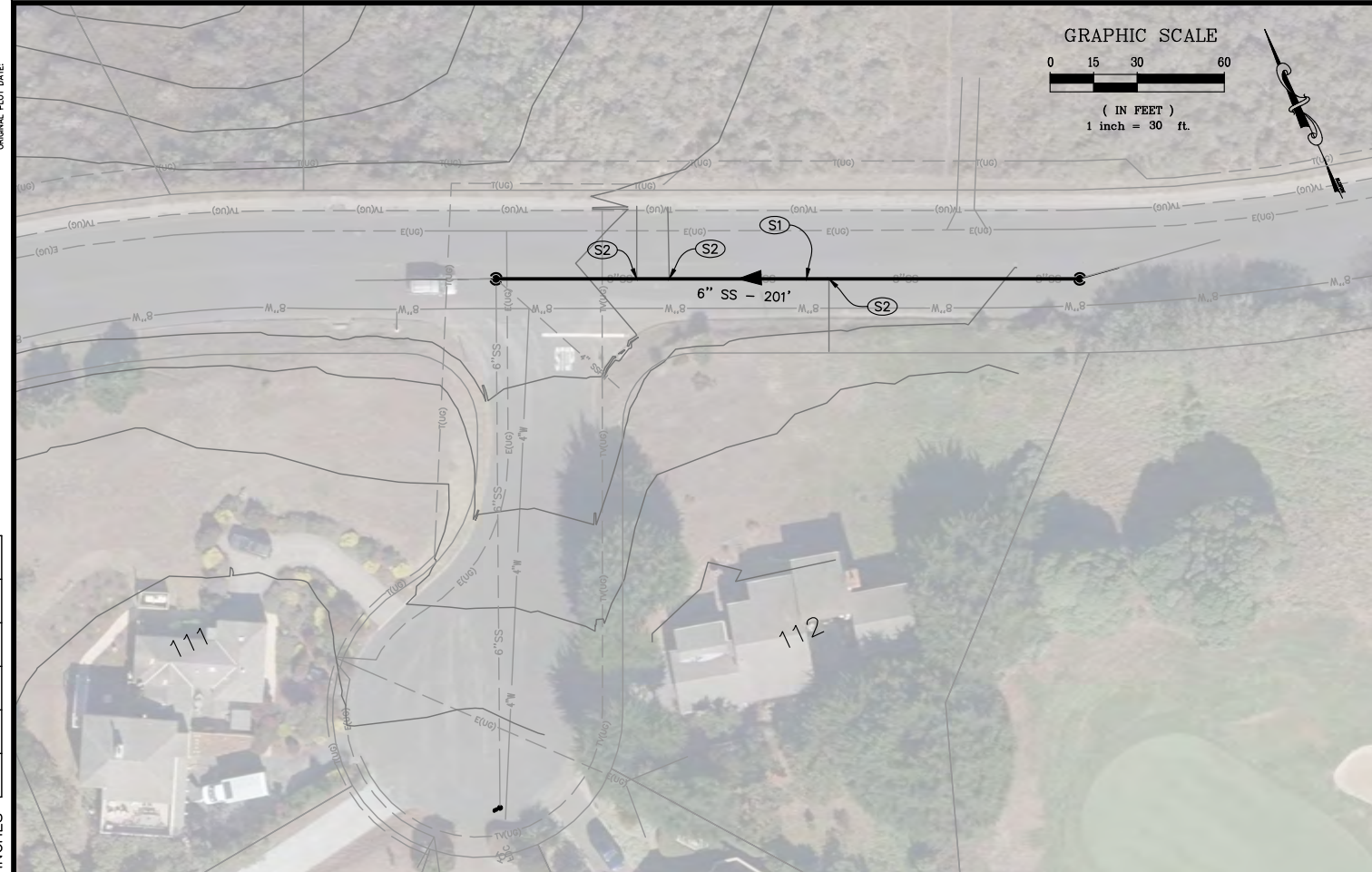
PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 26 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE:



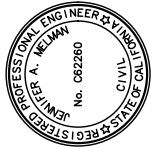
SITE PLAN 27A



SITE PLAN 27B

CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S25) THE LOCATION OF CO 4-17 SHOWN IS APPROXIMATE. CONTRACTOR TO FIELD LOCATE CO 4-17.



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
 JAM WK/CG/SF GRH



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BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

PROJECT NUMBER
 95-4340

DRAWING DATE
 MAY 2021

SHEET NUMBER
 27 OF 36

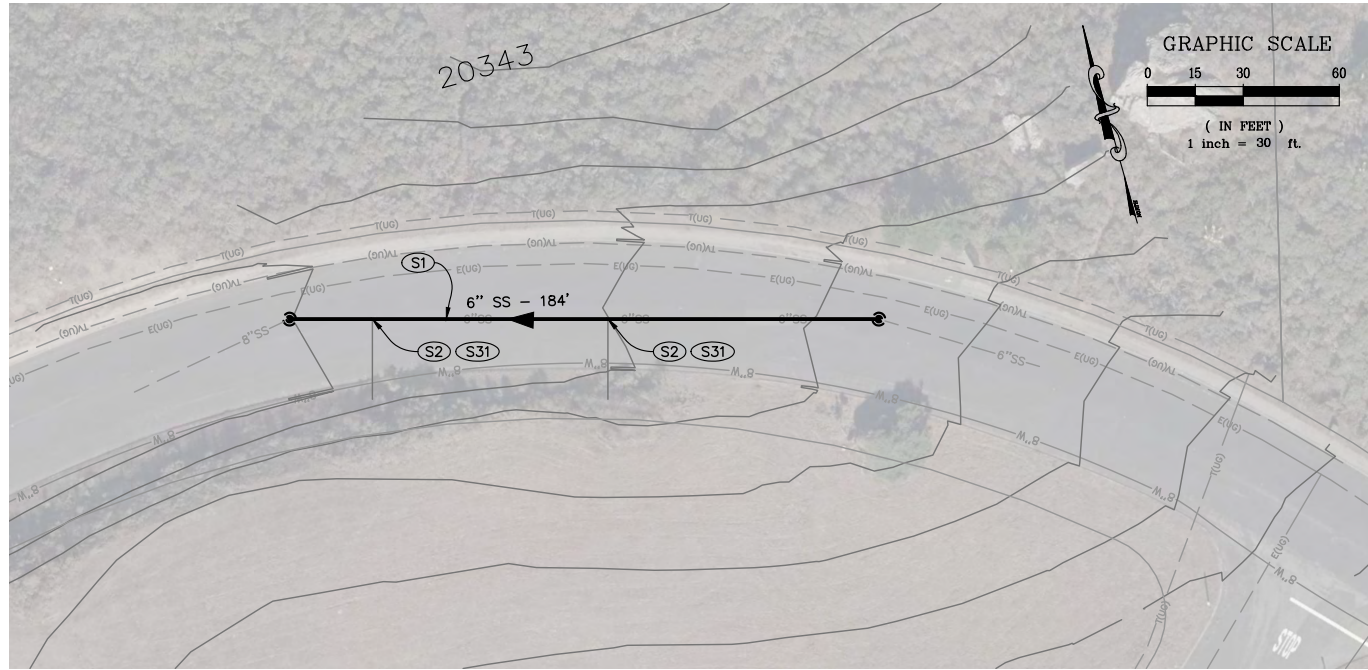
SITE PLAN - 27A & 27B

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_TP-4.dwg;Bodega Bay Base.dwg;95-4340_TP-4-LATERALS.dwg;95-4340_LULI-4.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

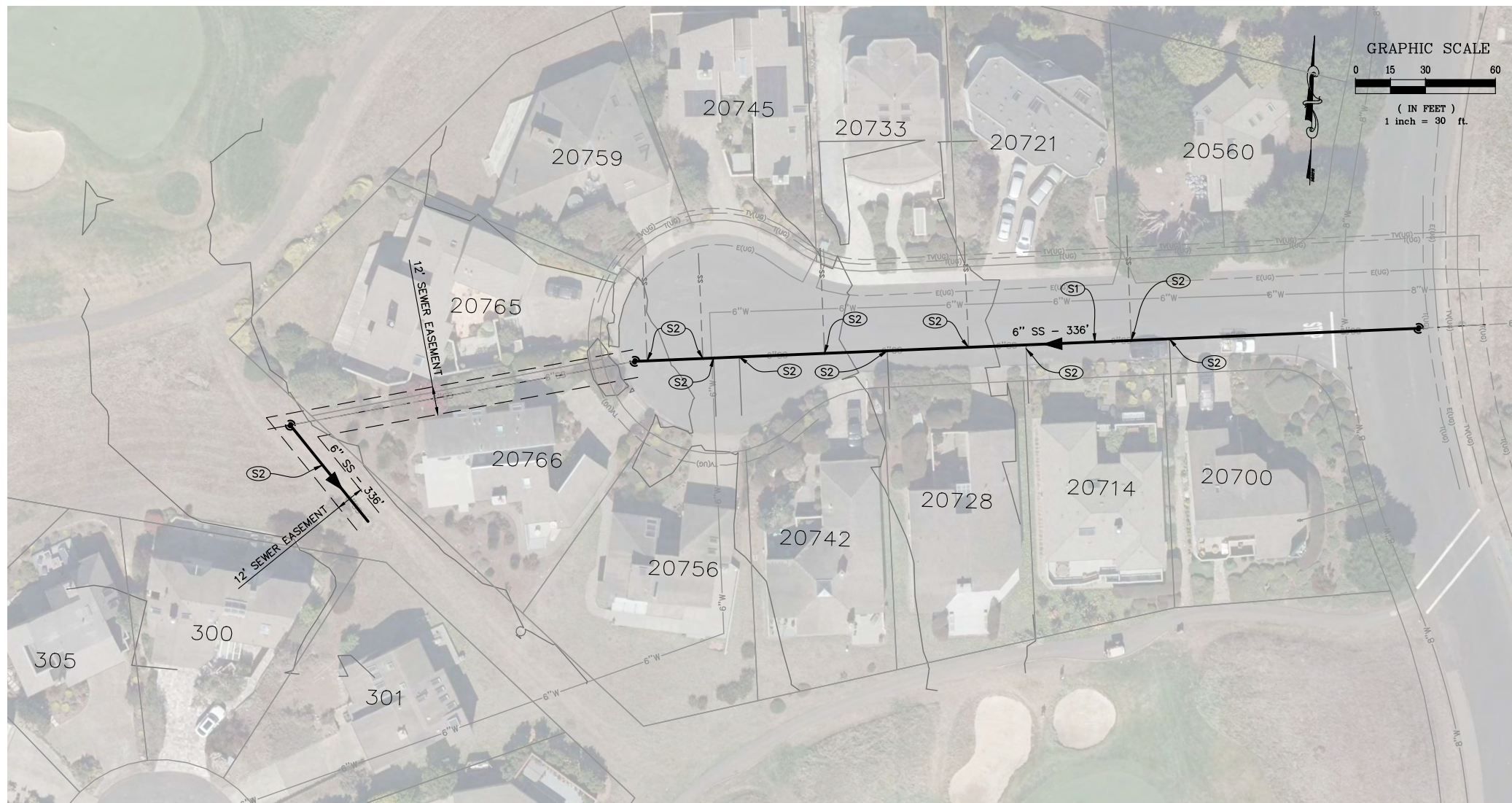
ORIGINAL PLOT DATE:



SITE PLAN 28A

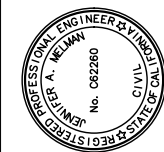
CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S31) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.



SITE PLAN 28B

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
 WK/CG/SF



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CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY

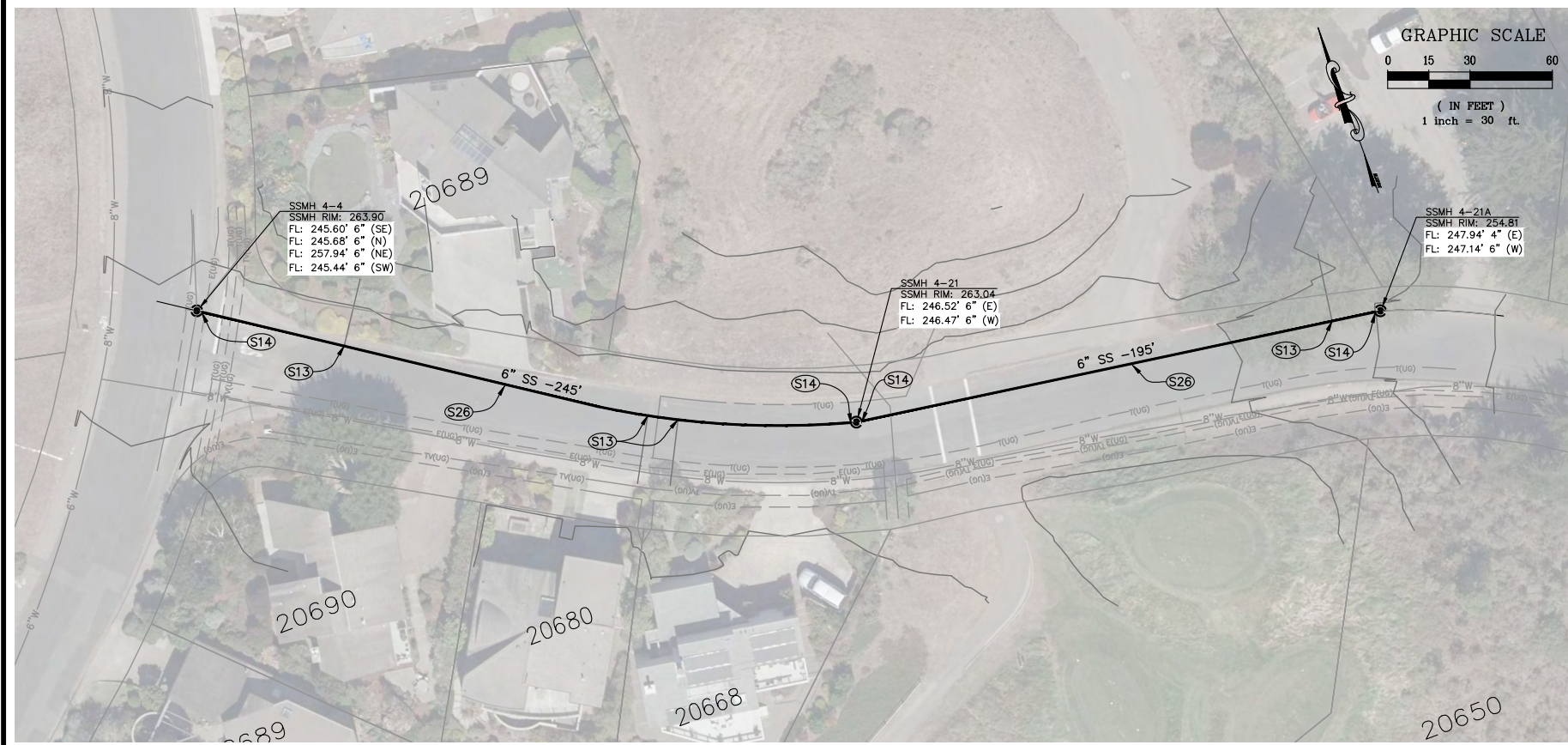
SITE PLAN - 28A & 28B

PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 28 OF 36

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_IP-4.dwg;Bodega Bay Base.dwg;95-4340_IP-4-LATERALS.dwg;95-4340_LULI-4.dwg
 Images: Zones.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

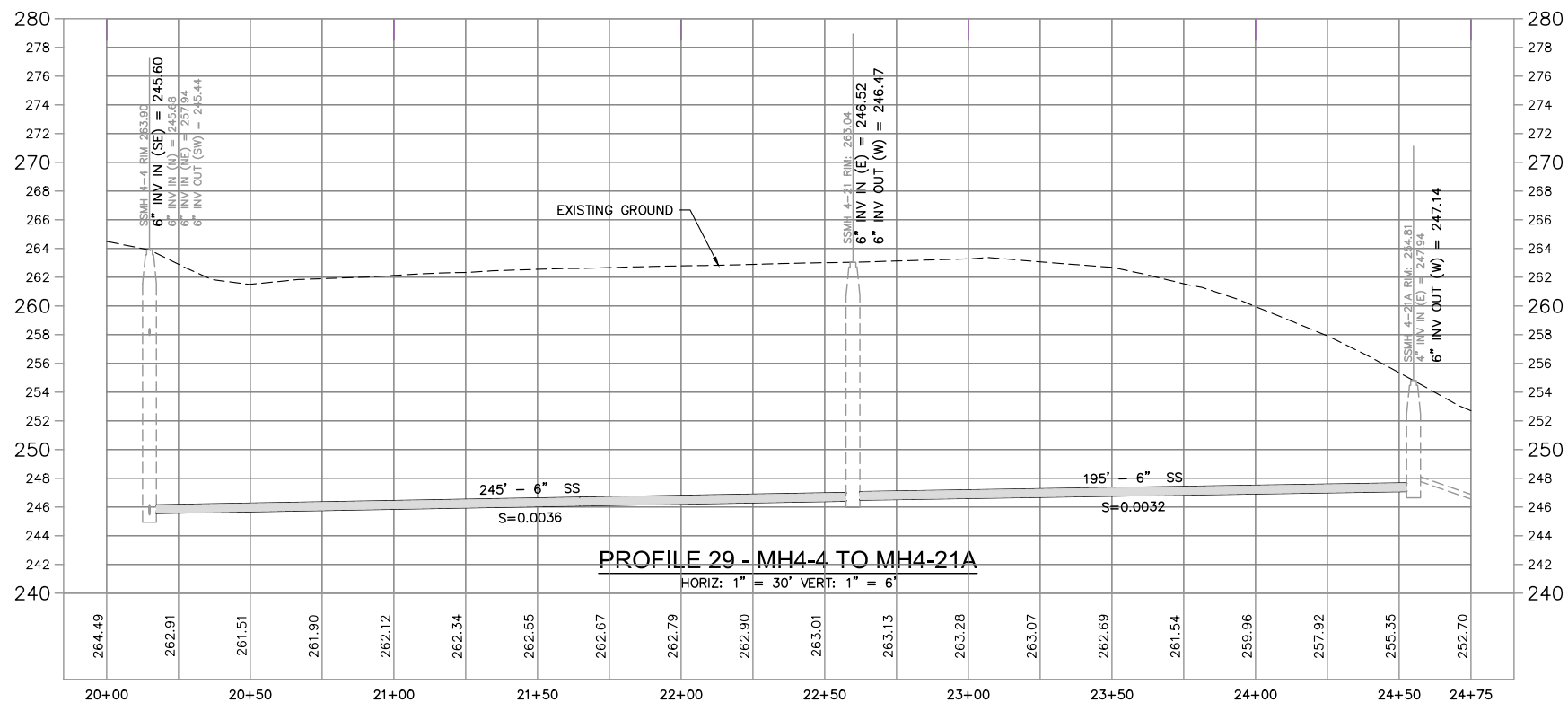
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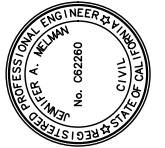
SITE PLAN 29

CONSTRUCTION NOTES

- (S13) RECONNECT ALL ACTIVE SEWER LATERALS TO REHABILITATED SEWER MAIN WITH NEW SANITARY WYE AND STAINLESS STEEL-BANDED RUBBER COUPLINGS PER SPECIFICATIONS AND DETAIL
- (S14) CONNECT NEW SANITARY SEWER TO EXISTING MANHOLE. CONTRACTOR TO VERIFY INVERT PRIOR TO EXCAVATION.
- (S26) REMOVE AND REPLACE 6" AC SANITARY SEWER PIPE WITH PVC PIPE PER DISTRICT STD. 115.



PROFILE 29 - MH4-4 TO MH4-21A



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 JAM WK/CG/SE GRH



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BODEGA BAY CALIFORNIA

BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

SITE PLAN & PROFILE - 29

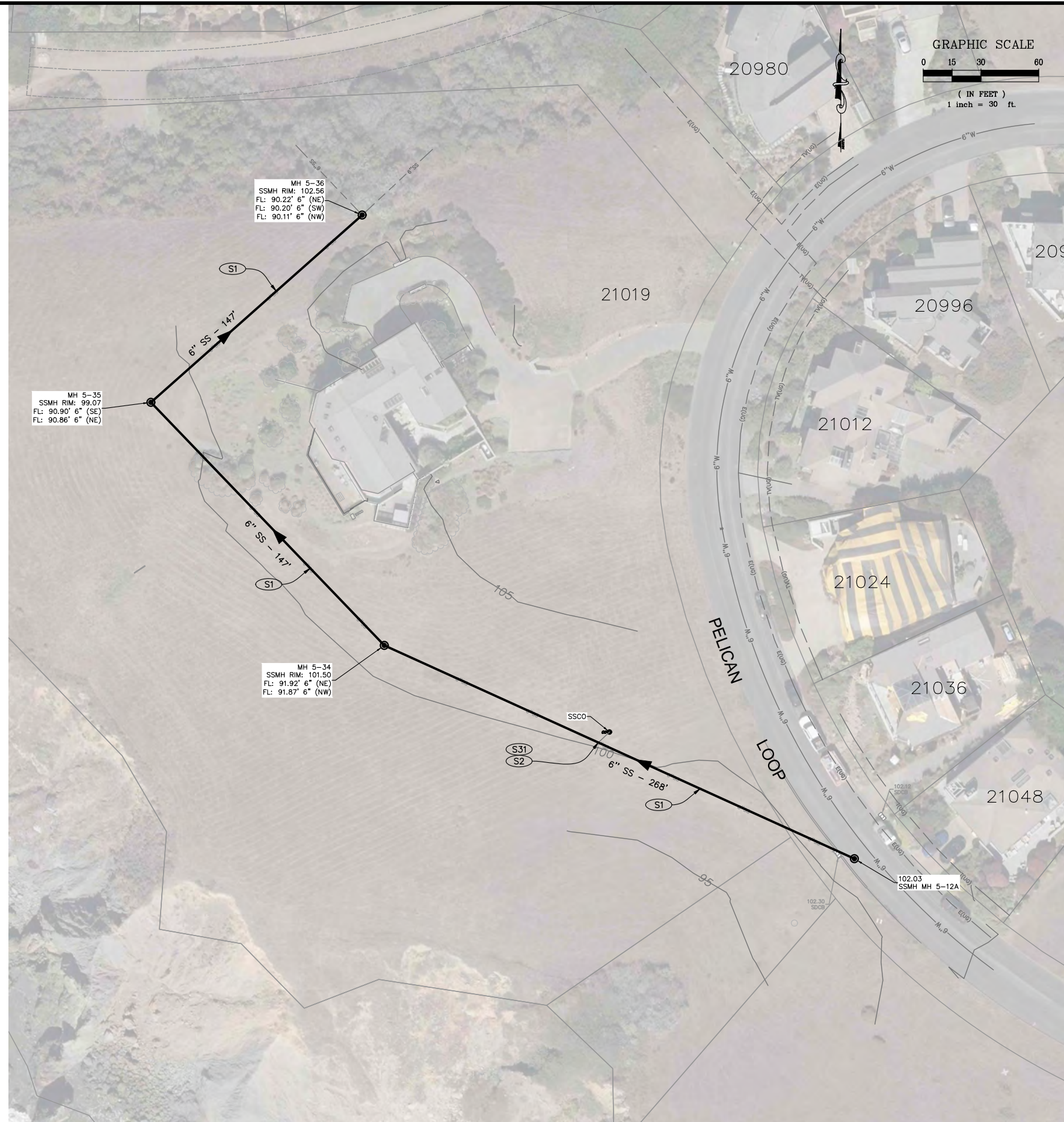
PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 29 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

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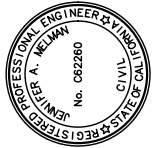
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE:



SITE PLAN 30

- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S3) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 WK/CG/SE

Coastland Civil Engineering, Inc.
 1400 Neotomas Avenue, Santa Rosa, CA 95405
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CALIFORNIA
 BODEGA BAY
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

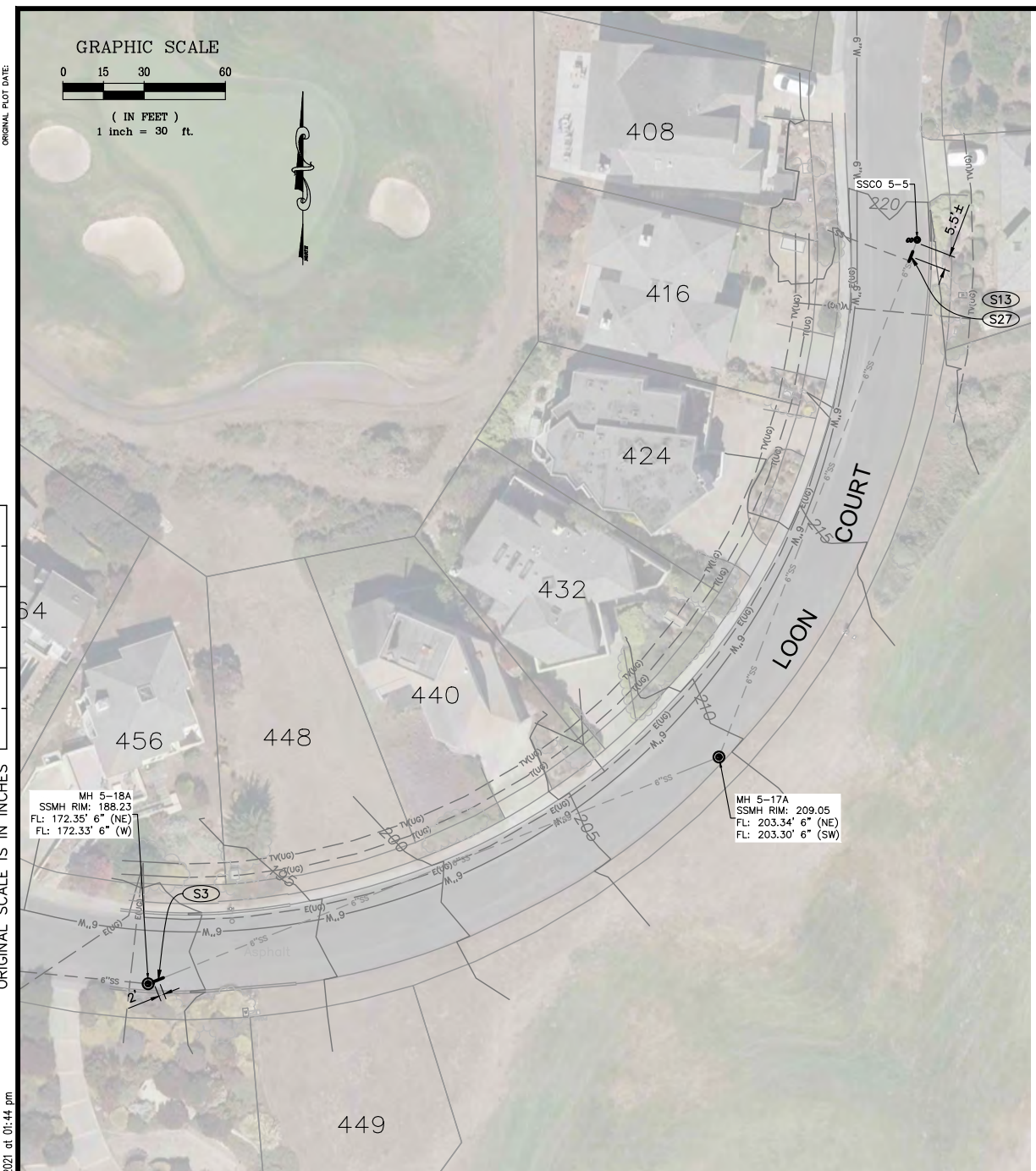
PROJECT NUMBER
 95-4340
 DRAWING DATE
 MAY 2021
 SHEET NUMBER
 30 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

SITE PLAN - 30

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_IP-5.dwg;Bodega Bay Base.dwg;95-4340_IP-5-LATERALS.dwg;95-4340_LULI-5.dwg
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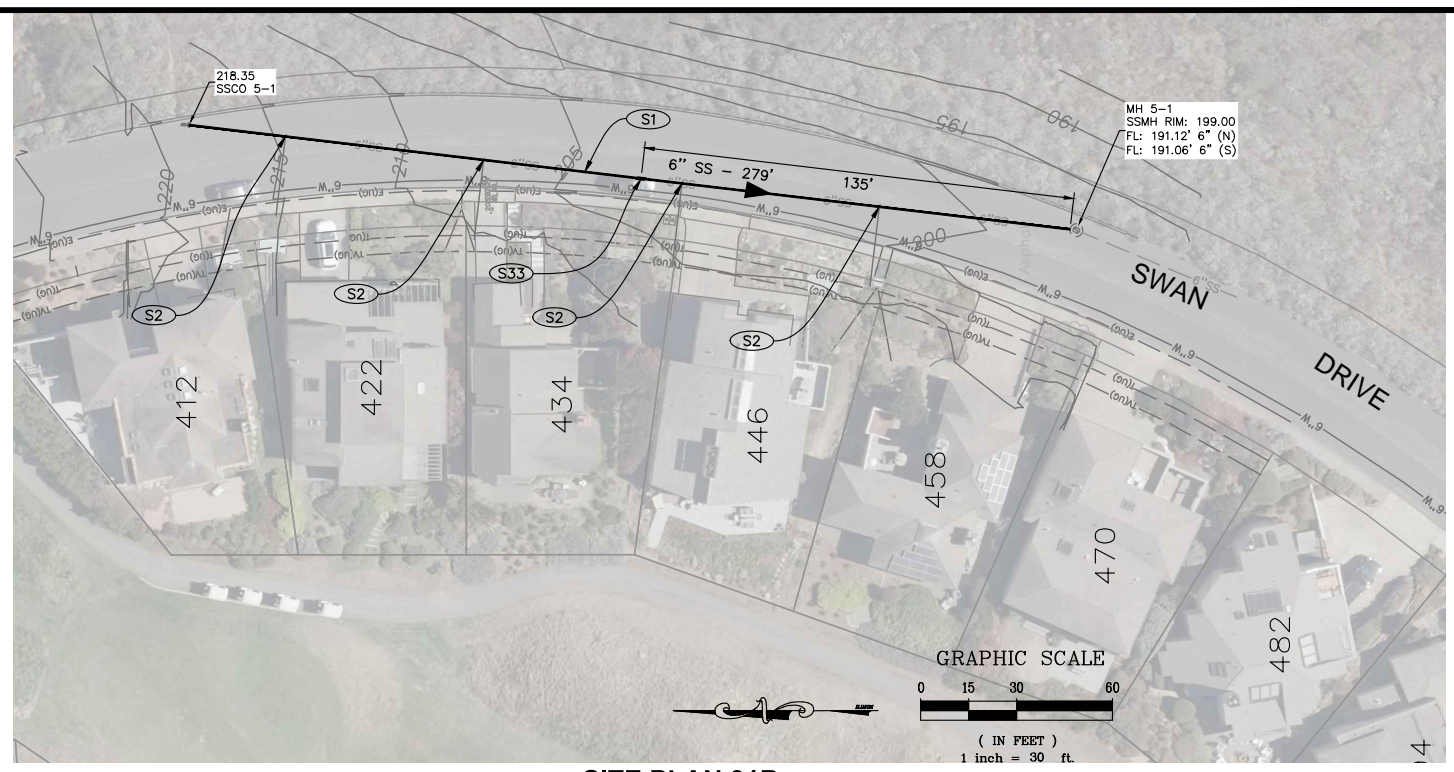
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



SITE PLAN 31A

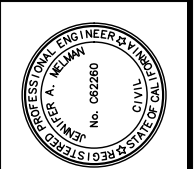
CONSTRUCTION NOTES

- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
- (S13) RECONNECT ALL ACTIVE SEWER LATERALS TO REHABILITATED SEWER MAIN WITH NEW SANITARY WYE AND STAINLESS STEEL-BANDED RUBBER COUPLINGS PER SPECIFICATIONS.
- (S26) REMOVE AND REPLACE 6" AC SANITARY SEWER PIPE WITH PVC PIPE PER DISTRICT STD. 115.
- (S27) CONDUCT OPEN-CUT POINT REPAIR OF JOL DEFECT ON 6" SANITARY SEWER WYE CONNECTION TO LATERAL AT LOCATION SHOWN. CONTRACTOR TO VERIFY DEFECT LOCATION AND LENGTH OF REPAIR.
- (S33) PRIOR TO CIPP-LINING OF 6" SANITARY SEWER CONDUCT OPEN-CUT REPAIR OF JOL DEFECT, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. CONTRACTOR TO VERIFY DEFECT AND LENGTH OF REPAIR. CONTRACTOR TO BACKFILL TRENCH WITH CDF TO BASE OF PAVEMENT SECTION.



SITE PLAN 31B

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
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 JAM WK/CG/SF GRH

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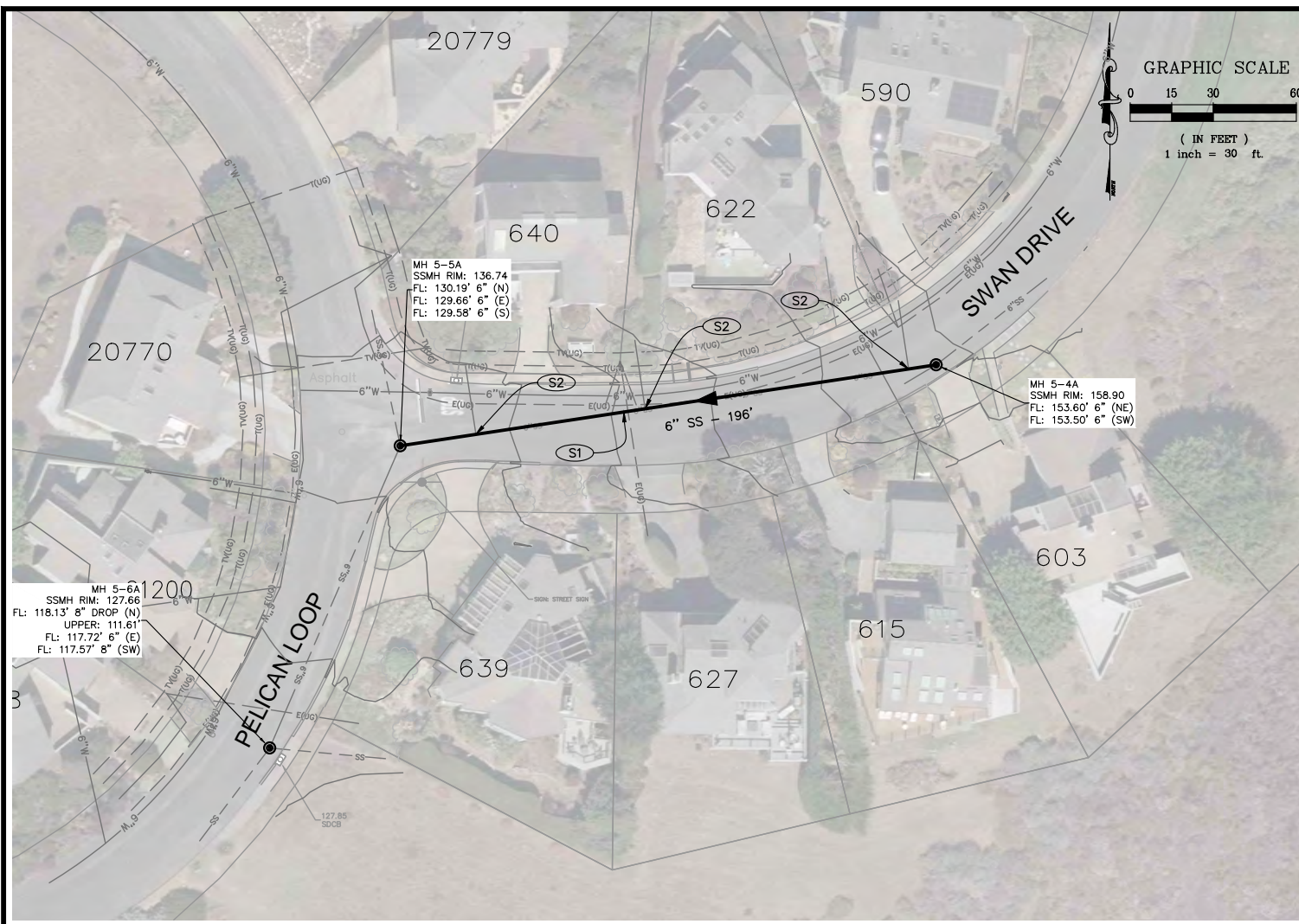
CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT
 BODEGA BAY

PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 31 OF 36

SITE PLAN - 31A & 31B

Xref: C:\E-ENGINEERS STAMPS-PLAN.dwg;95-4340_TP-5.dwg;Bodega Bay Base.dwg;95-4340_TP-5-LATERALS.dwg;95-4340_UTIL-5.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



SITE PLAN 32

- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.

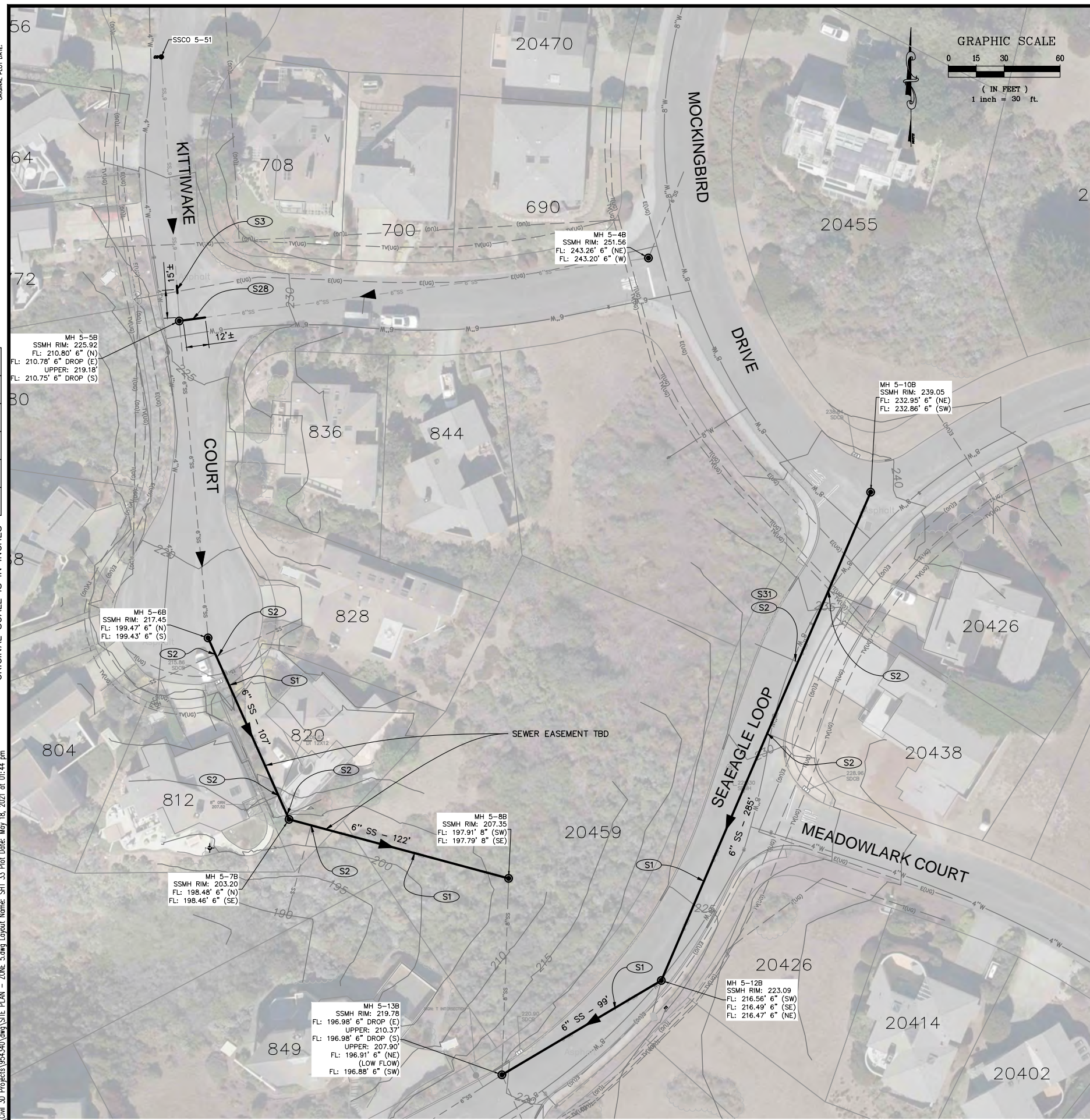
PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

	<p>PREPARED UNDER THE DIRECTION OF</p> <p>JENNIFER A. MELMAN, RCE C62260 DATE</p> <p>DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH</p>
<p>Coastland Civil Engineering, Inc. 1400 Neotomas Avenue, Santa Rosa, CA 95405 707.571.8005</p>	<p>BODEGA BAY PUBLIC UTILITY DISTRICT 2021 SEWER REHABILITATION PROJECT</p> <p>CALIFORNIA</p> <p>SITE PLAN - 32</p>
<p>BODEGA BAY</p>	<p>PROJECT NUMBER 95-4340</p> <p>DRAWING DATE MAY 2021</p> <p>SHEET NUMBER 32 OF 36</p>

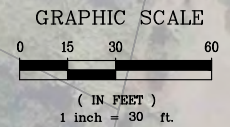
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

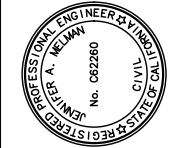
ORIGINAL PLOT DATE:



SITE PLAN 33



- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
 - (S2B) CONDUCT OPEN-CUT POINT REPAIR OF JOINT, BROKEN JOINT AND JOINT ON 6" SANITARY SEWER AT LOCATION SHOWN. CONTRACTOR TO VERIFY DEFECT LOCATIONS AND LENGTH OF REPAIR.
 - (S3I) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH
 WK/CG/SE

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BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

BODEGA BAY CALIFORNIA

PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 33 OF 36

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021

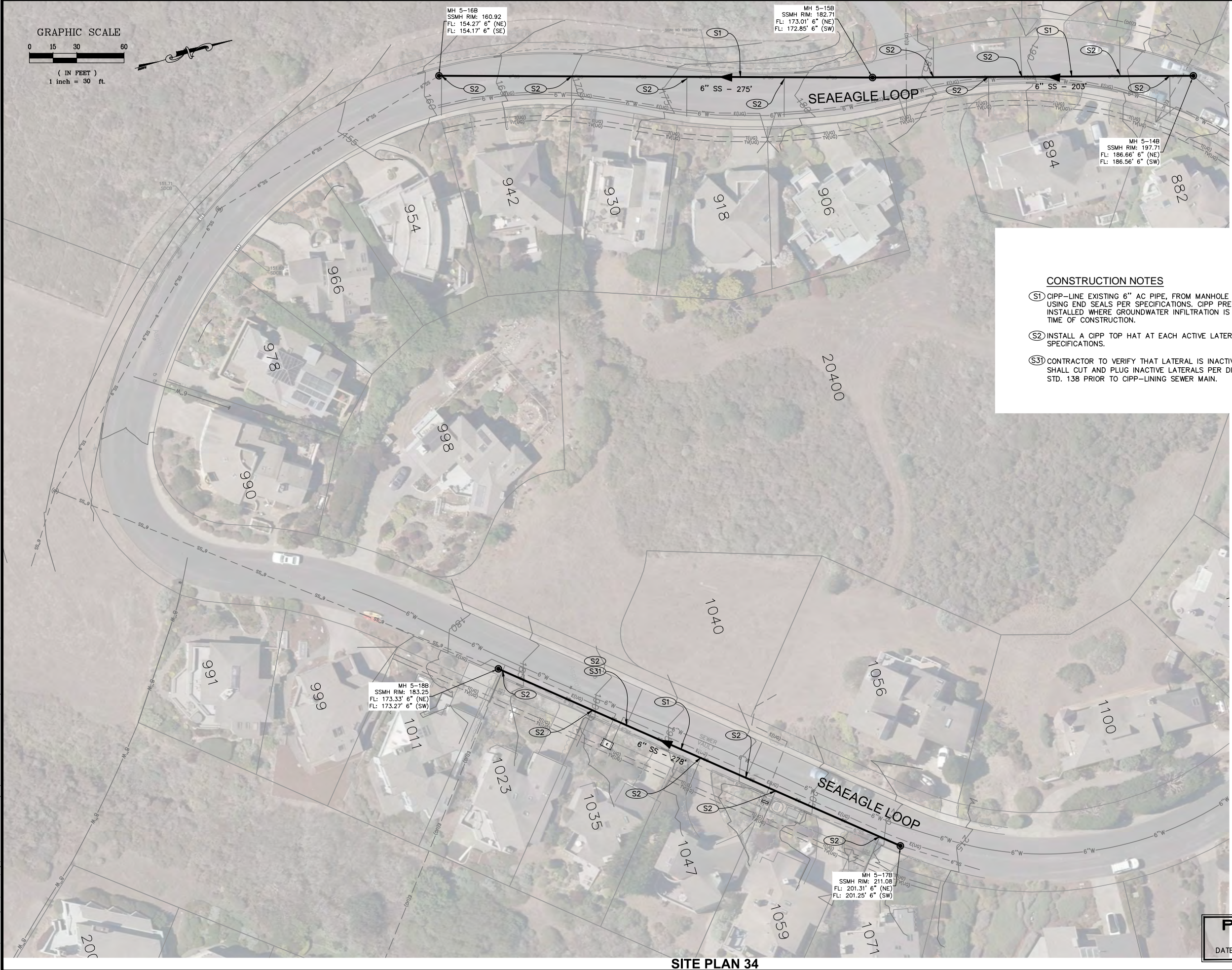
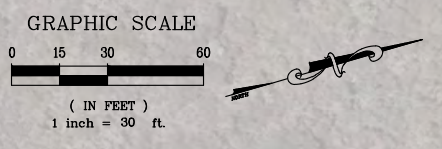
SITE PLAN - 33

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3
2
1

ORIGINAL PLOT DATE:



MH 5-168
SSMH RIM: 160.92
FL: 154.27' 6" (NE)
FL: 154.17' 6" (SE)

MH 5-158
SSMH RIM: 182.71
FL: 173.01' 6" (NE)
FL: 172.85' 6" (SW)

MH 5-148
SSMH RIM: 197.71
FL: 186.66' 6" (NE)
FL: 186.56' 6" (SW)

MH 5-188
SSMH RIM: 183.25
FL: 173.33' 6" (NE)
FL: 173.27' 6" (SW)

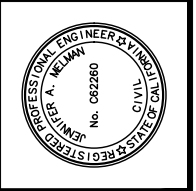
MH 5-178
SSMH RIM: 211.08
FL: 201.31' 6" (NE)
FL: 201.25' 6" (SW)

CONSTRUCTION NOTES

- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
- (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
- (S3) CONTRACTOR TO VERIFY THAT LATERAL IS INACTIVE. CONTRACTOR SHALL CUT AND PLUG INACTIVE LATERALS PER DISTRICT STD. 138 PRIOR TO CIPP-LINING SEWER MAIN.

SITE PLAN 34

PRELIMINARY
50% SUBMITTAL
DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH
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CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

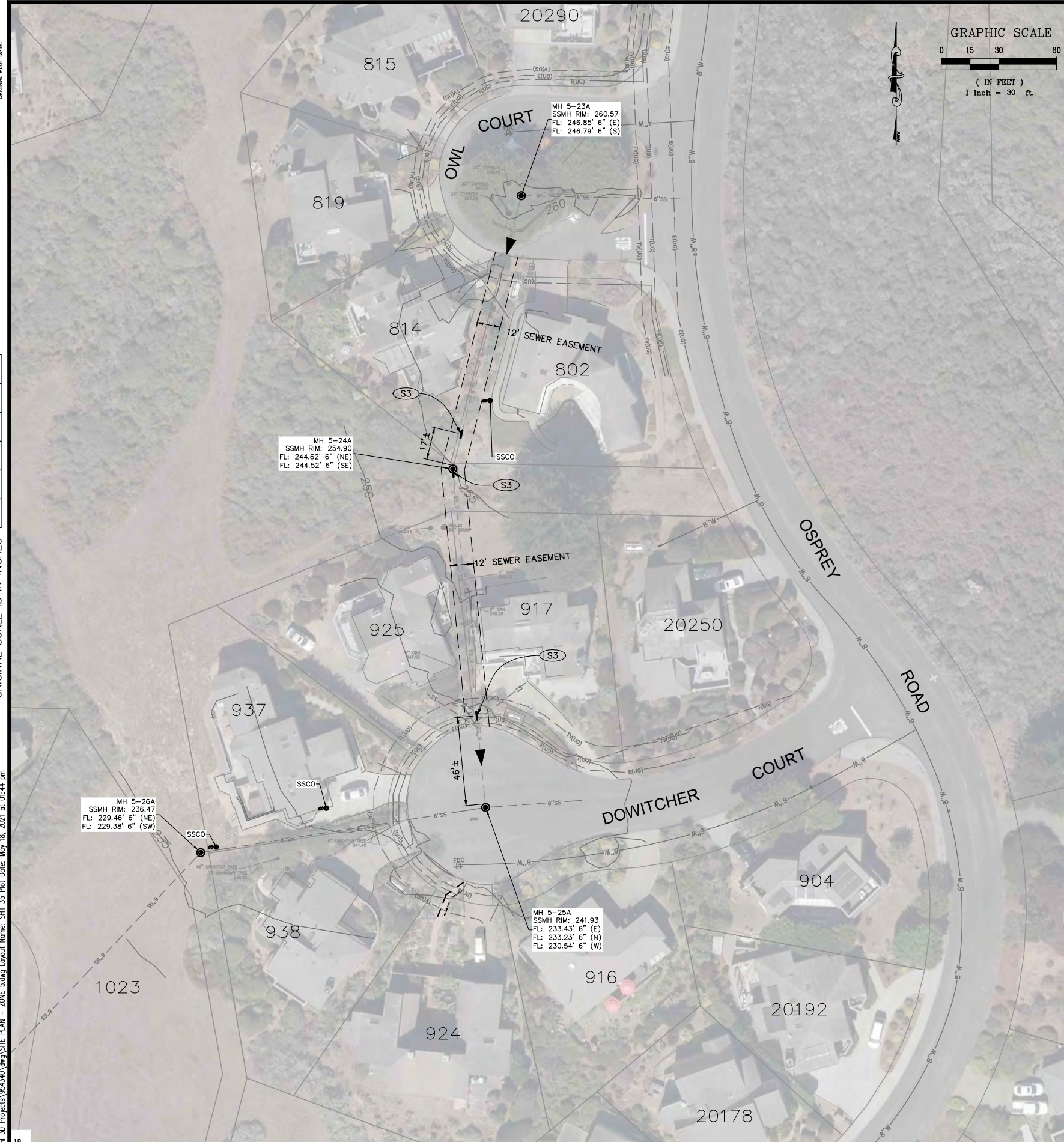
PROJECT NUMBER 95-4340
 DRAWING DATE MAY 2021
 SHEET NUMBER 34 OF 36

SITE PLAN - 34

Xref: CCE-ENGINEERS STAMPS-PLAN.dwg;95-4340_TP-5.dwg;Bodega Bay Base.dwg;95-4340_TP-5-LATERALS.dwg;95-4340_UTIL-5.dwg
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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

ORIGINAL PLOT DATE:

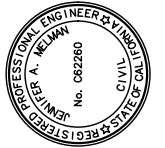


SITE PLAN 35

CONSTRUCTION NOTES

- (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SF REVIEWED BY GRH



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BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

CALIFORNIA

SITE PLAN - 35

PROJECT NUMBER
 95-4340

DRAWING DATE
 MAY 2021

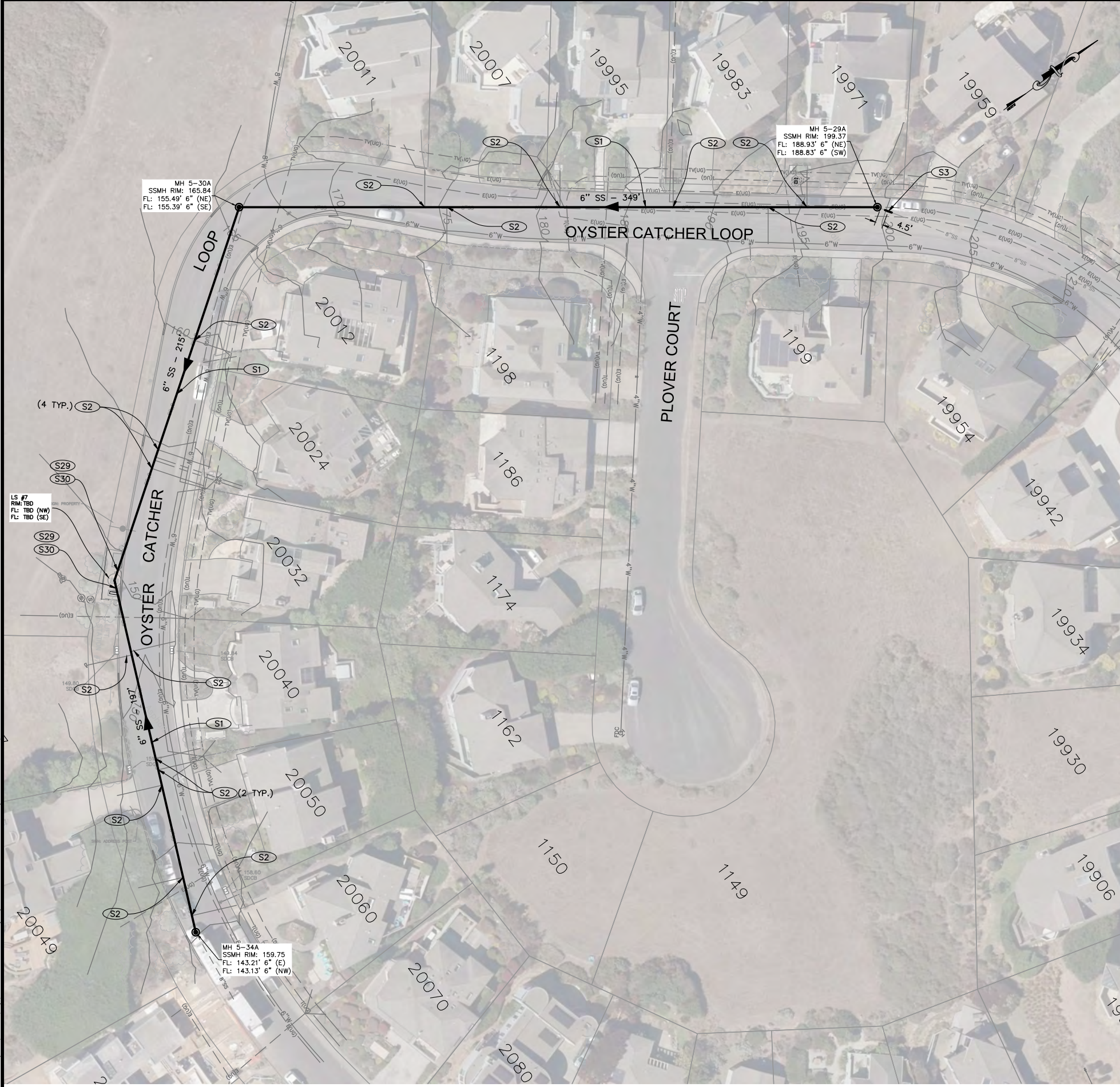
SHEET NUMBER
 35 OF 36

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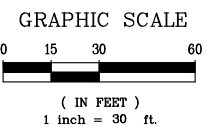
FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES

3
2
1
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ORIGINAL PLOT DATE:

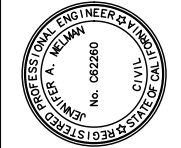


SITE PLAN 36



- CONSTRUCTION NOTES**
- (S1) CIPP-LINE EXISTING 6" AC PIPE, FROM MANHOLE TO MANHOLE, USING END SEALS PER SPECIFICATIONS. CIPP PRE-LINERS SHALL BE INSTALLED WHERE GROUNDWATER INFILTRATION IS OBSERVED AT THE TIME OF CONSTRUCTION.
 - (S2) INSTALL A CIPP TOP HAT AT EACH ACTIVE LATERAL PER SPECIFICATIONS.
 - (S3) INSTALL CIPP POINT REPAIR ON 6" SANITARY SEWER, APPROXIMATELY 4' LONG, CENTERED AT LOCATION SHOWN. INSTALL END SEALS PER SPECIFICATIONS. CONTRACTOR TO VERIFY LOCATION OF DEFECT AND LENGTH OF REPAIR.
 - (S29) PRIOR TO CIPP-LINING OF 6" SANITARY SEWER PIPE FROM MANHOLE TO MANHOLE, CONDUCT OPEN-CUT REPAIR OF APPROXIMATELY 2' OF HIGHLY CORRODED 6" CI SANITARY SEWER PIPE ADJACENT TO LS 7. CONTRACTOR TO VERIFY LENGTH OF REPAIR.
 - (S30) REPLACE EXTERNAL MANHOLE DROP STRUCTURE PIPING AT LS 7.

PRELIMINARY
 50% SUBMITTAL
 DATE: 05/19/2021



PREPARED UNDER THE DIRECTION OF
 JENNIFER A. MELMAN, RCE C62260 DATE
 DESIGNED BY JAM DRAWN BY WK/CG/SE REVIEWED BY GRH

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CALIFORNIA
 BODEGA BAY PUBLIC UTILITY DISTRICT
 2021 SEWER REHABILITATION PROJECT

PROJECT NUMBER
95-4340
 DRAWING DATE
MAY 2021
 SHEET NUMBER
36 OF 36

SITE PLAN - 36