

BEST ROADS MUTUAL WATER COMPANY WATER SYSTEM CONSOLIDATION PROJECT SUNNYSLOPE COUNTY WATER DISTRICT JOHN SMITH RD, HOLLISTER, CA

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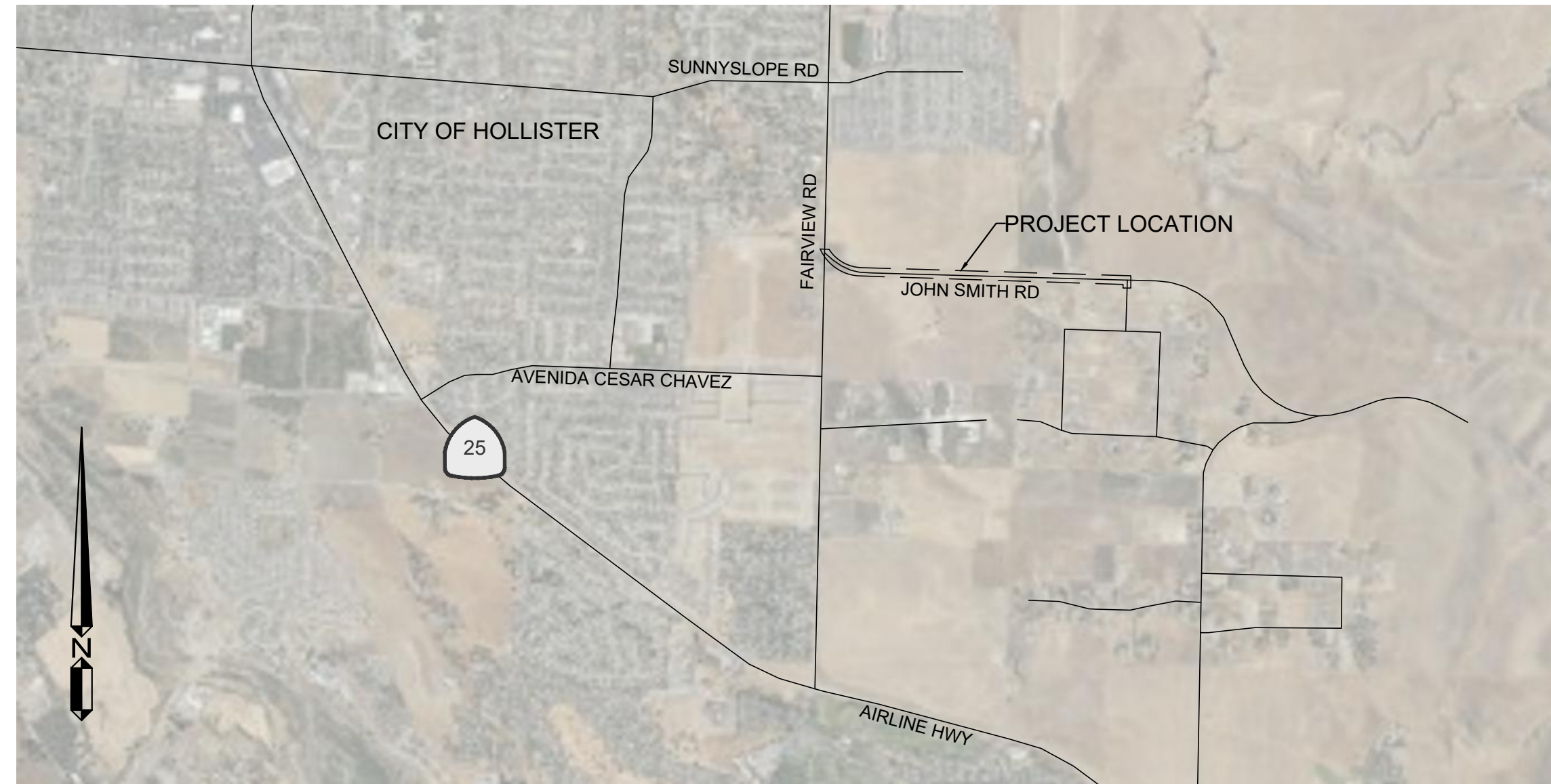
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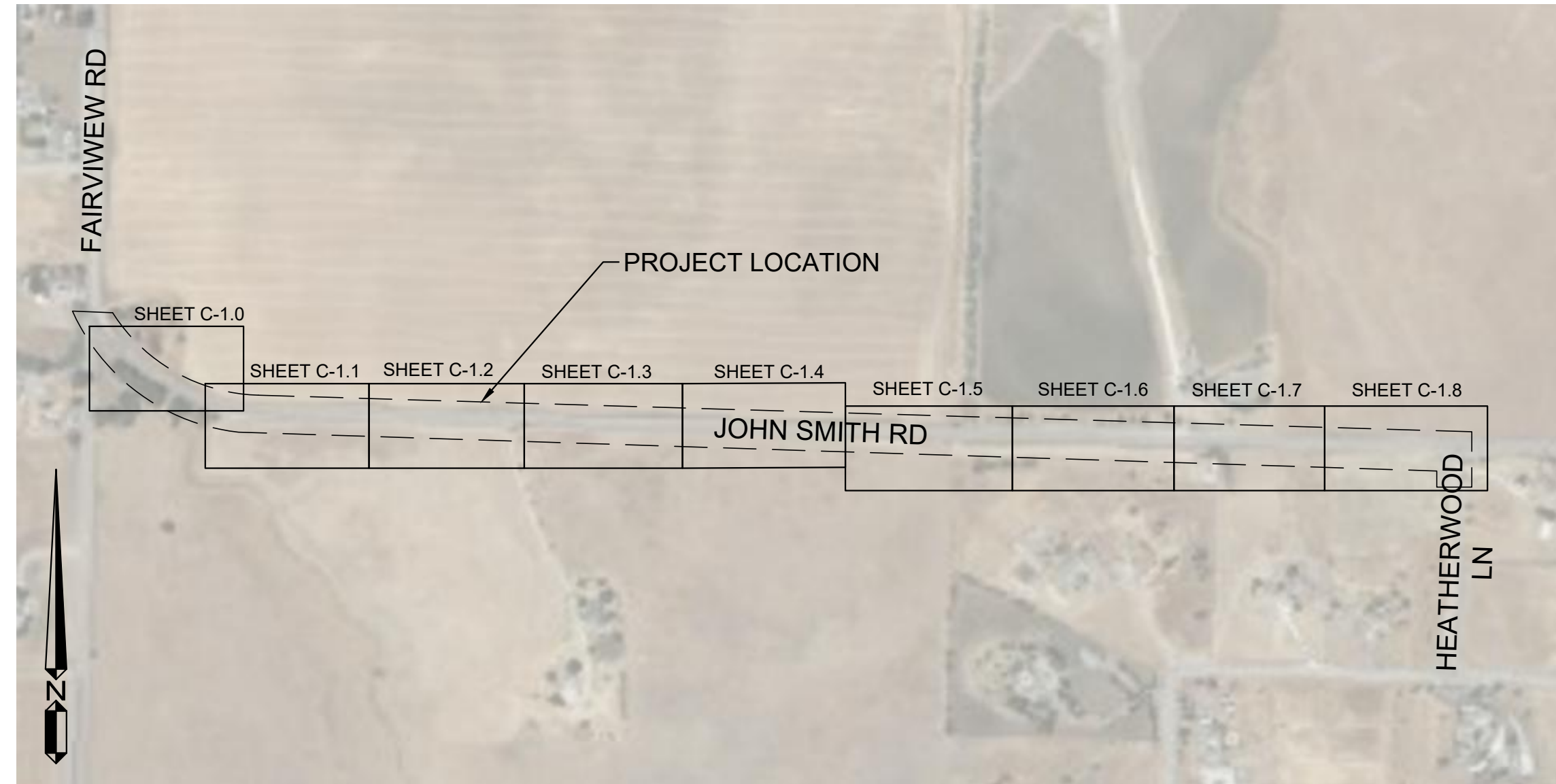
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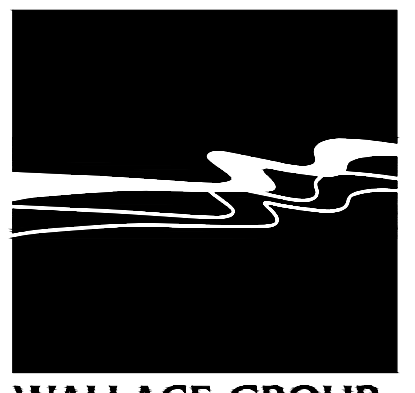


VICINITY MAP
NTS



PROJECT SITE MAP
NTS

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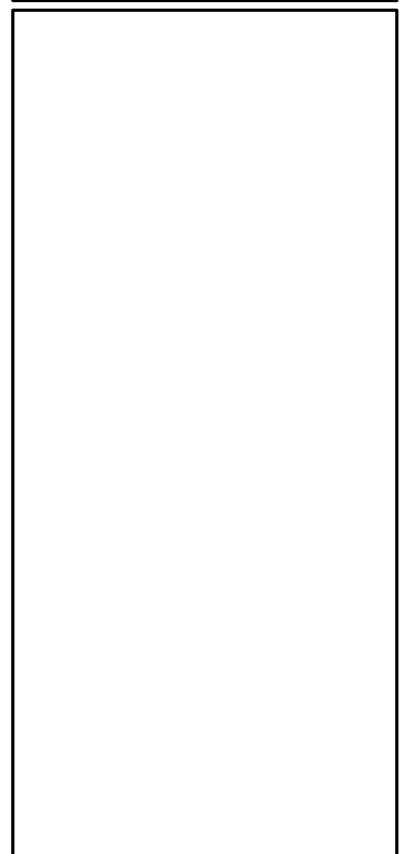
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**BEST ROADS MUTUAL WATER COMPANY
WATER SYSTEM CONSOLIDATION PROJECT
COVER**



**CALIFORNIA DEPARTMENT OF
WATER RESOURCES**

FUNDING FOR THIS PROJECT HAS BEEN PROVIDED IN FULL OR IN PART FROM THE STATE DEPARTMENT OF WATER RESOURCES (DWR), FINANCED UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM, AND ADMINISTERED BY THE CALIFORNIA STATE DEPARTMENT OF WATER RESOURCES.

APPROVED BY:

DREW A. LANDER, P.E.
GENERAL MANAGER
SUNNYSLOPE COUNTY WATER DISTRICT

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24

DRAWING NO.
G-1.0
1 OF 19 SHEETS

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARV	AIR RELEASE VALVE
A&V	AIR AND VACUUM (COMBINATION) VALVE
AVG	AVERAGE
BC	BEGIN CURVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BRMWC	BEST ROADS MUTUAL WATER COMPANY
BV	BALL VALVE
C	CURB
CAV	COMBINATION AIR VALVE
CATV	CABLE TELEVISION
CI	CAST IRON
CL	CENTERLINE
CL	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CATHODIC PROTECTION
CPLG	COUPLING
CY	CUBIC YARD
DET	DETAIL
DI	DUCTILE IRON (PIPE)
DIA	DIAMETER
DIM	DIMENSION
DW	DRIVEWAY
E	EXISTING
EA	EACH
EC	END CURVE
ELE	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
EG	EXISTING GROUND
EQ	EQUALIZATION
FCA	FLANGE COUPLING ADAPTOR
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FL	FIRE LINE
FLG	FLANGE
FS	FINISH SURFACE
FT	FEET
G	GAS
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
JP	JOINT POLE
JT	JOINT UTILITY TRENCH
L	LENGTH
LAT	LATERAL
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PH	POTHOLE (UTILITY WAS POTHOLED)
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PP	POWER POLE
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSF	POUND PER SQUIRE FOOT
PSI	POUND PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
RT	RIGHT
RW	RIGHT OF WAY
RET WALL	RETAINING WALL
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPEC	SPECIFICATIONS
SSCWD	SUNNYSLOPE COUNTY WATER DISTRICT
SSFM	SANITARY SEWER FORCE MAIN
STA	STATION
STD	STANDARD
STL	STEEL
SV	SOLENOID VALVE
SW	SIDEWALK
T	TELEPHONE
TB	THRUST BLOCK
TB	TOP OF BANK
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRADE
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP WALL
UTL	COMMON TRENCH UTILITIES
VAR	VARIES
VC	VERTICAL CURVE
VIC	VICTAULIC COUPLING
VERT	VERTICAL
W	WATER
WF	WIDE FLANGE
WL	WATER LINE
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE
WWM	WELDED WIRE MESH
WW	WET WELL

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS. NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(100.0 FS)	101.50 FS	SPOT ELEVATIONS
		SEWER MANHOLE
		SEWER CLEANOUT
		SERVICE LATERAL (W=WATER, G=GAS, U=UTILITIES)
		SERVICE METER (W=WATER)
		DOUBLE SERVICE METER (W=WATER)
		SEWER LATERAL
		FIRE HYDRANT
		STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
		GATE VALVE
		CAP
		SURVEY MONUMENT
		BENCH MARK
		SLOPE PERCENTAGE
		CONTINUOUS ACTING AIR VALVE
		WATER VALVE
		SIGN
		POWER POLE
		ABANDON UTILITY
		EDGE OF PAVEMENT
		OVERHEAD UTILITY LINE
		REDUCER / INCREASER
		WATER LINE
		SEWER FORCE MAIN
		GRAVITY SEWER LINE
		STORM DRAIN
		UNDERGROUND GAS LINE
		UNDERGROUND UTILITY LINE LOCATION
		UNDERGROUND ELECTRICAL LINE
		UNDERGROUND CABLE TELEVISION LINE
		UNDERGROUND TELEPHONE LINE
		RIGHT OF WAY
		EASEMENT
		CENTERLINE
		BARBED WIRE FENCE
		CHAIN LINK FENCE
		PRIVATE FENCE
		RETAINING WALL
		FLOWLINE

GENERAL NOTES

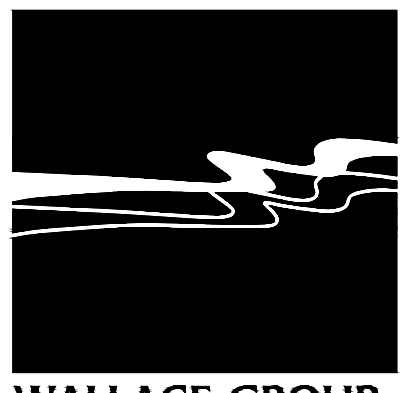
- THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE SUNNYSLOPE COUNTY WATER DISTRICT (SSCWD/OWNER) AND THE COUNTY OF SAN BENITO (COUNTY) STANDARD DRAWINGS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF SSCWD AND THE COUNTY.
- THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED CONTRACT DOCUMENTS FOR THIS PROJECT ON SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN, SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES.
- INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES IS BASED ON RECORD INFORMATION AND IS AS SHOWN FOR INFORMATIONAL PURPOSES ONLY. UNDERGROUND FEATURES SHOWN IN PLAN VIEW ON THE PLANS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, AND MAY NOT APPEAR IN PROFILE OR SECTION VIEWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 1-800-642-2444, SSCWD, AND THE COUNTY, 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
- THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", "NOT A PART", OR HAVE SOME OTHER EXCLUDING NOTATION.
- THE CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL ORGANIZE A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, ENGINEER OF RECORD, SOILS ENGINEER, PERTINENT UTILITY COMPANIES, AND SURVEYOR.
- EXISTING TOPOGRAPHIC INFORMATION DELINEATED ON THESE PLANS IS BASED ON A FIELD SURVEY PROVIDED BY WALLACE GROUP ON MAY 2nd, 2023. SEE SURVEY NOTES, THIS SHEET.
- NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY SSCWD AND THE COUNTY. SSCWD AND THE COUNTY SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO SSCWD AND THE COUNTY WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S RISK.
- SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO THE PLACEMENT OF MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.
- COMPACTION TESTS SHALL BE MADE ON SUB-GRADE MATERIAL AND MATERIAL AS SPECIFIED BY THE SOILS ENGINEER IN THE GEOTECHNICAL REPORT DATED FEBRUARY 2, 2024. SAID TESTS SHALL BE MADE PRIOR TO THE PLACEMENT OF THE NEXT MATERIAL.
- THE ENGINEER OF RECORD SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE GENERAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF RECORD FOR PREPARATION OF RECORD DRAWINGS.
- THE SSCWD INSPECTOR ACTING ON BEHALF OF SSCWD MAY REQUIRE REVISIONS IN THE PLANS TO RESOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. ALL REVISIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
- THE ENGINEER OF RECORD MUST VERIFY THAT THE IMPROVEMENTS, WHEN COMPLETED, ARE IN CONFORMANCE WITH THE PLANS PRIOR TO THE REQUEST FOR FINAL INSPECTION. RECORD DRAWINGS ARE TO BE PREPARED FOLLOWING THE REQUIREMENTS DEFINED IN THE TECHNICAL SPECIFICATIONS. THE CIVIL ENGINEER PREPARING THE RECORD DRAWING PLANS WILL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
- ALL PERTINENT UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- A COUNTY OF SAN BENITO ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK DONE WITHIN ANY ROAD RIGHT-OF-WAY.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 5:00PM MONDAY THROUGH FRIDAY UNLESS APPROVED BY SSCWD AND THE COUNTY.

SURVEY NOTES

- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT [NAD83(2011)], EPOCH DATE OF 2010.00.
 - THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 5 PROJECTION.
 - THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THOSE STATIONS ARE THE NGS POINTS DESIGNATED "P237", HAVING A PUBLISHED POSITION OF: NORTHING 2123719.94' EASTING 5861453.37' AND "P217", HAVING A PUBLISHED POSITION OF: NORTHING 1882583.06' EASTING 6226120.22' AND "P171" HAVING A PUBLISHED POSITION OF: NORTHING 2071799.02' EASTING 5740865.25. THE RESULTING BEARING FROM "P171" TO "P237" BEING: N 66°42'18" E. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.
 - ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 0.99990889 THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 900.41 FEET FOR PT. NO. 100. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET
 - THE CONVERGENCE ANGLE IS: -01°23'09" AT PT. NO. 100.
 - THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE DERIVED CALIFORNIA ORTHOMETRIC HEIGHTS OF 1988 (DERIVED COH88). THE DERIVED COH88 WAS CALCULATED AT POINT NUMBER 100 USING THE FOLLOWING VALUES: A NAD83 ELLIPSOID HEIGHT OF 792.57 FEET, AND A GEOID12B GEOID HEIGHT OF 107.84 FEET, RESULTING IN A DERIVED COH88 ELEVATION OF 900.41 FEET.
 - THE CONTOUR INTERVAL IS 1 FOOT.
 - ORTHOGRAPHY AND AERIAL MAPPING PRODUCED BY: WALLACE GROUP 612 CLARION CT. SAN LUIS OBISPO, CA 93401 PHONE: (805) 544-4011
- PHOTOGRAPHY DATED: 4/20/2022
- UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS, ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.
 - UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.
 - EASEMENTS AFFECTING THE PROPERTY SHOWN HEREON MAY EXIST. NO TITLE INFORMATION WAS PROVIDED. NO ATTEMPT HAS BEEN MADE TO PLOT EASEMENTS.

SURVEY CONTROL POINTS					
PT. NO.	NORTHING	EASTING	ELEV.	DESC.	
100	2191814.18	5881790.88	900.41	SET RBR WG	
133	2194470.97	5871584.74	444.10	SET AT T PNT STRIP	
134	2194453.30	5872132.50	454.36	SET AT T PNT STRIPE	
135	2194437.35	5872666.46	468.32	SET AT T PNT STRIP	
136	2194411.47	5873663.31	468.96	SET AT T PNT STRIP CKPT4	
137	2194398.00	5874281.39	483.83	SET AT T PNT STRIP HV7	
138	2193706.06	5874182.01	495.15	SET AT PANEL	
146	2194377.69	5872968.32	470.47	SET 2X2 Tac	

FOUND MONUMENT COORDINATE TABLE					
PT. NO.	NORTHING	EASTING	ELEV.	DESC.	
139	2193708.99	5874175.51	494.7	FD 11P PC WITH HOLE ILL	
142	2194392.30	5873477.08	470.8	FD 11P PC RCE 23003	
143	2194407.82	5872918.84	470.2	FD 11P PC RCE 23003	
147	2192361.94	5869968.62	470.0	FD BC WM CTY HOLL RCE18764 Q	
148	2193097.81	5869984.75	454.1	FD BC WM LS8817	
170	2194791.50	5870021.91	420.3	FD WM BC CTY HOLL RCE18764	



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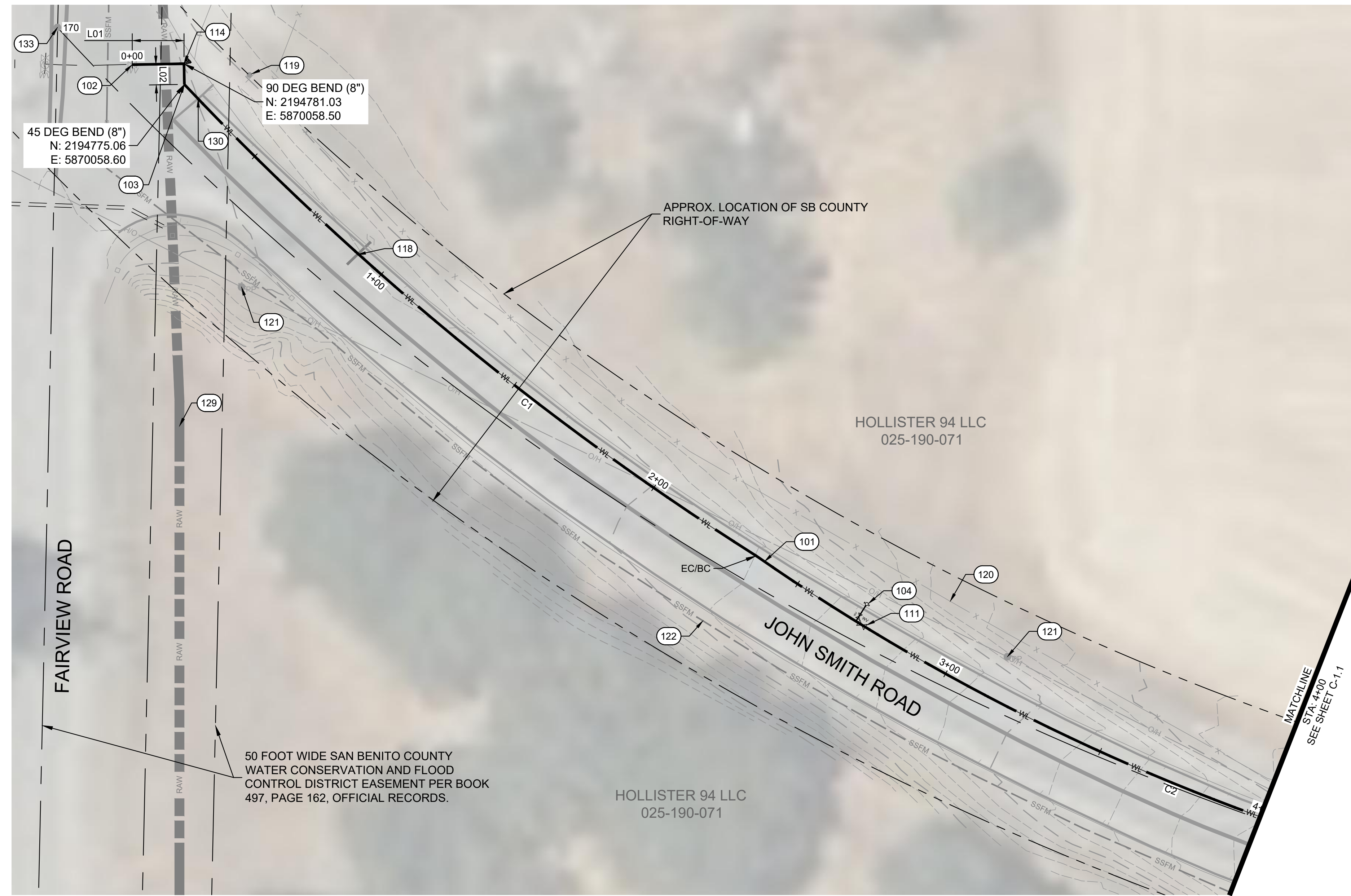
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 WATER SYSTEM CONSOLIDATION PROJECT
 GENERAL NOTES

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 2 OF 19 SHEETS



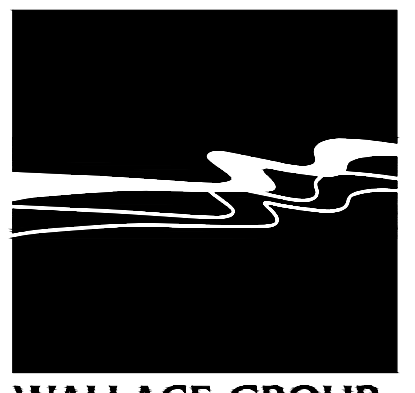
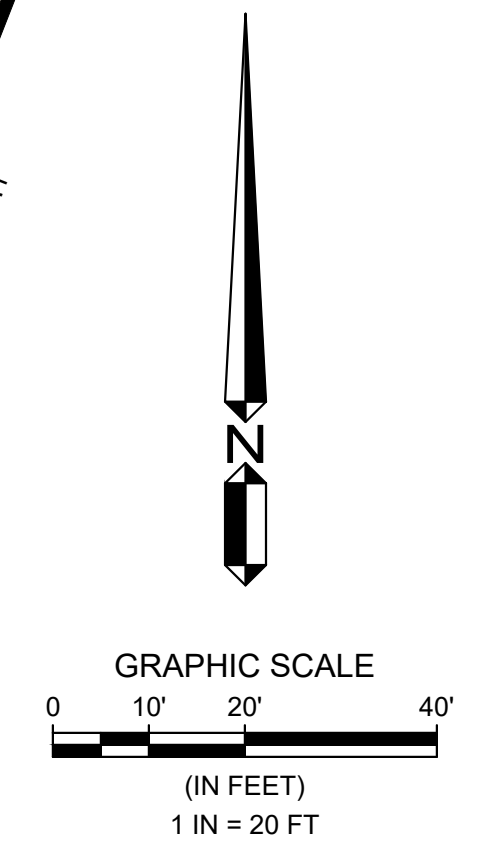
PLAN VIEW
PROFILE VIEW

REFERENCE NOTES:

101	PROPOSED 8" DR 18 C900 PVC WATER MAIN. CL. OF PIPE INSTALLED IN EX. JOHN SMITH ROAD, 3 FT MIN. FROM EDGE OF PAVEMENT, AS SHOWN. REFER TO DETAIL 1, SHEET C-2.0 FOR TYPICAL TRENCH DETAIL.
102	CONNECT PROPOSED WATER MAIN TO EX. SSCWD WATER DISTRIBUTION MAIN AT EX. BLOW OFF LOCATED IN FAIRVIEW ROAD. REFER TO DETAIL 3, SHEET C-2.0
103	STANDARD 8" DI 45° EL FITTING, MJ X MJ CONNECTION.
104	NEW FIRE HYDRANT ASSEMBLY PER DETAILS 1 AND 2, SHEET C-2.4. INSTALL ON THE NORTH SIDE OF JOHN SMITH ROAD, MIN. 4' SETBACK FROM EX. EDGE OF PAVEMENT.
111	NEW 8" ISOLATION VALVE. INSTALL PER DETAIL 5, SHEET C-2.4.
114	STANDARD 8" DI 90° EL FITTING, MJ X MJ CONNECTION. PROVIDE THRUST BLOCK PER SSCWD STANDARD DETAIL W-10-1. REFER TO DETAIL 6, SHEET C-2.4.
118	EXISTING 8" STORM DRAIN, PROTECT-IN-PLACE. INSTALL WATER LINE UNDER STORM DRAIN PER DETAIL 4, SHEET C-2.1.
119	EXISTING SIGNAGE, PROTECT-IN-PLACE.
120	EXISTING FENCE. PROTECT-IN-PLACE.
121	EXISTING POWER POLE, PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
129	EXISTING SAN BENITO COUNTY 33" CORBAN FIBERGLASS NON-POTABLE WATER MAIN, PROTECT-IN-PLACE. SEE DETAIL 1, THIS SHEET, FOR CROSSING DETAIL.
130	INSTALL RESTRAINED JOINTS FOR A MINIMUM 14' DOWNSTREAM OF 45 DEG BEND.
133	SURVEY MONUMENT, PROTECT-IN-PLACE. SEE FOUND MONUMENT COORDINATE TABLE ON SHEET G-2.0.

LINE/CURVE TABLE

LINE #	LENGTH (FT)	DIRECTION/ RADIUS	DELTA
L01	14.9	N88°57'06"E	-
L02	6.0	S00°57'14"E	-
C1	214.7	865.22	14°12'54"
C2	261.1	629.90	23°44'43"



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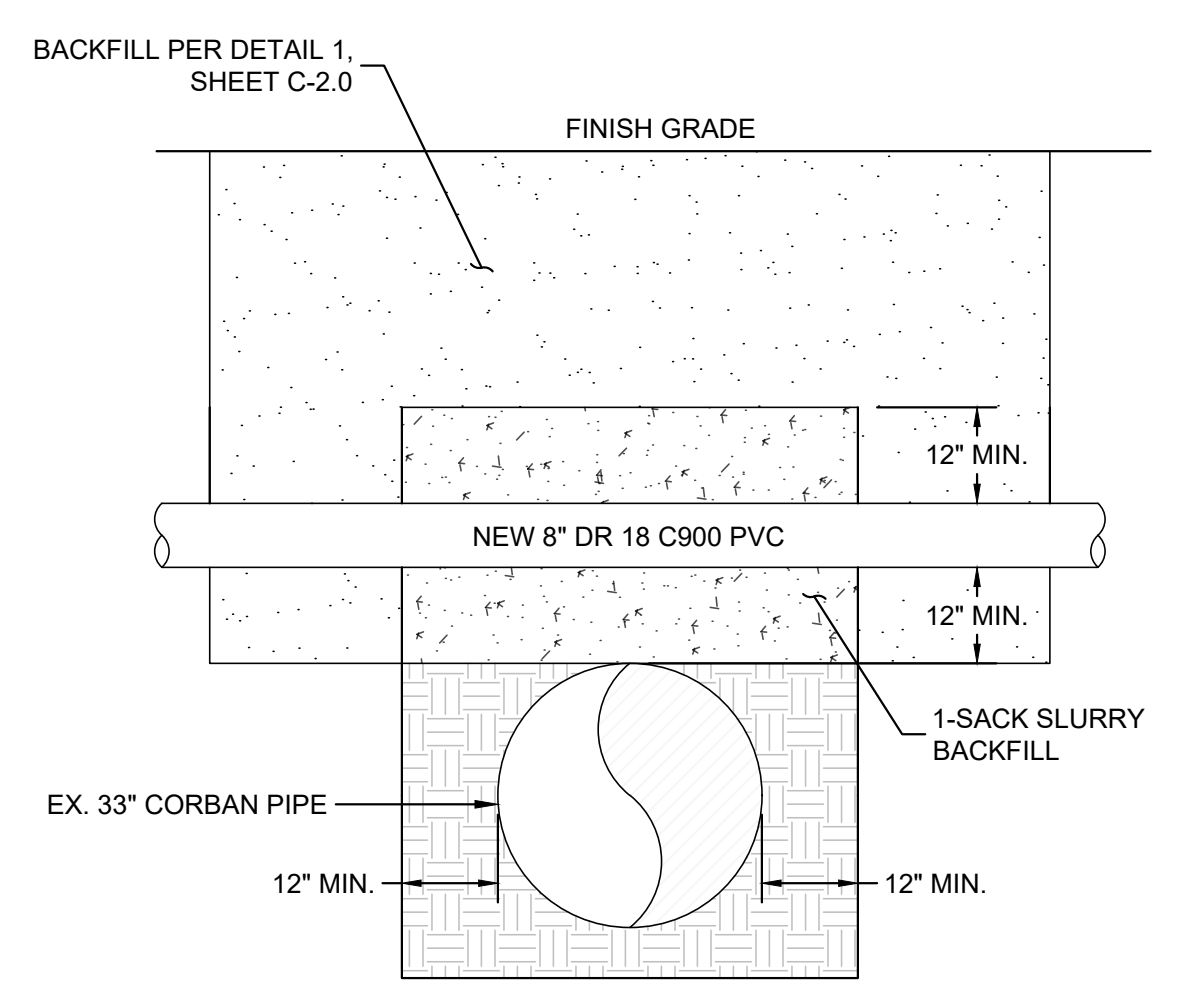
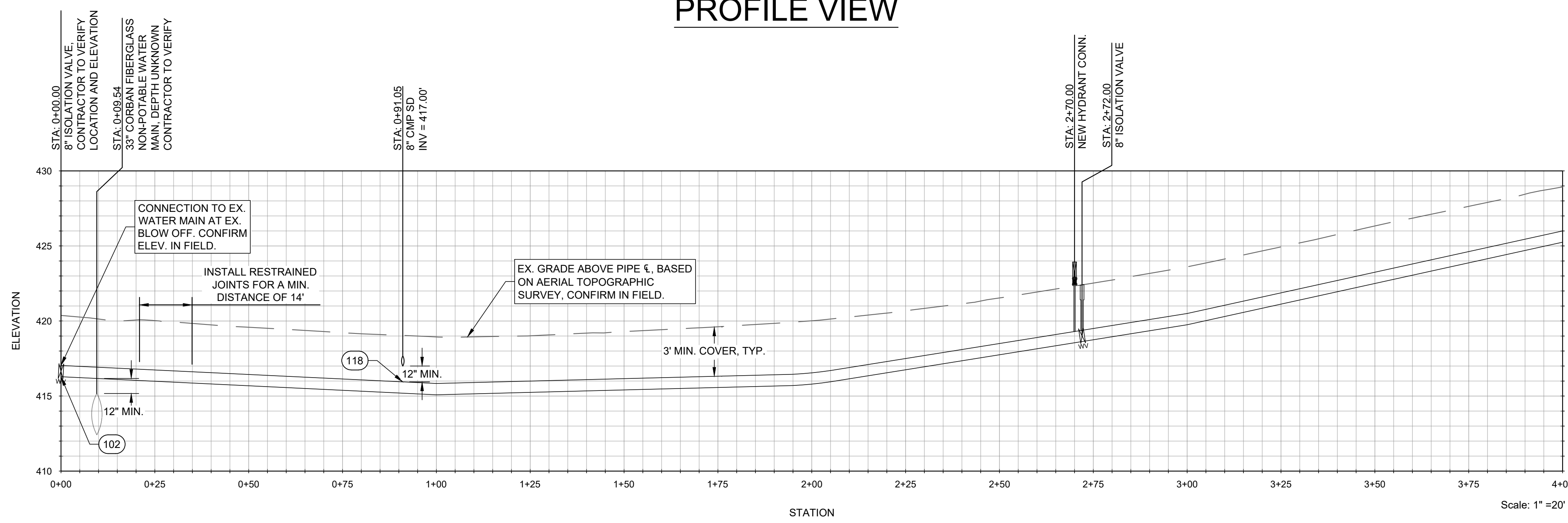
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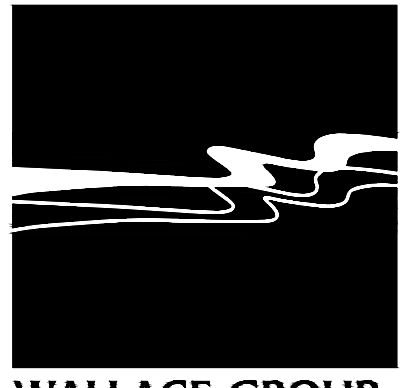
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DRAWING NO.
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3 OF 19 SHEETS



1 NON-POTABLE WATER LINE CROSSING DETAIL
Scale: NTS



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**BEST ROADS MUTUAL WATER COMPANY
 WATER SYSTEM CONSOLIDATION PROJECT
 PLAN & PROFILE**

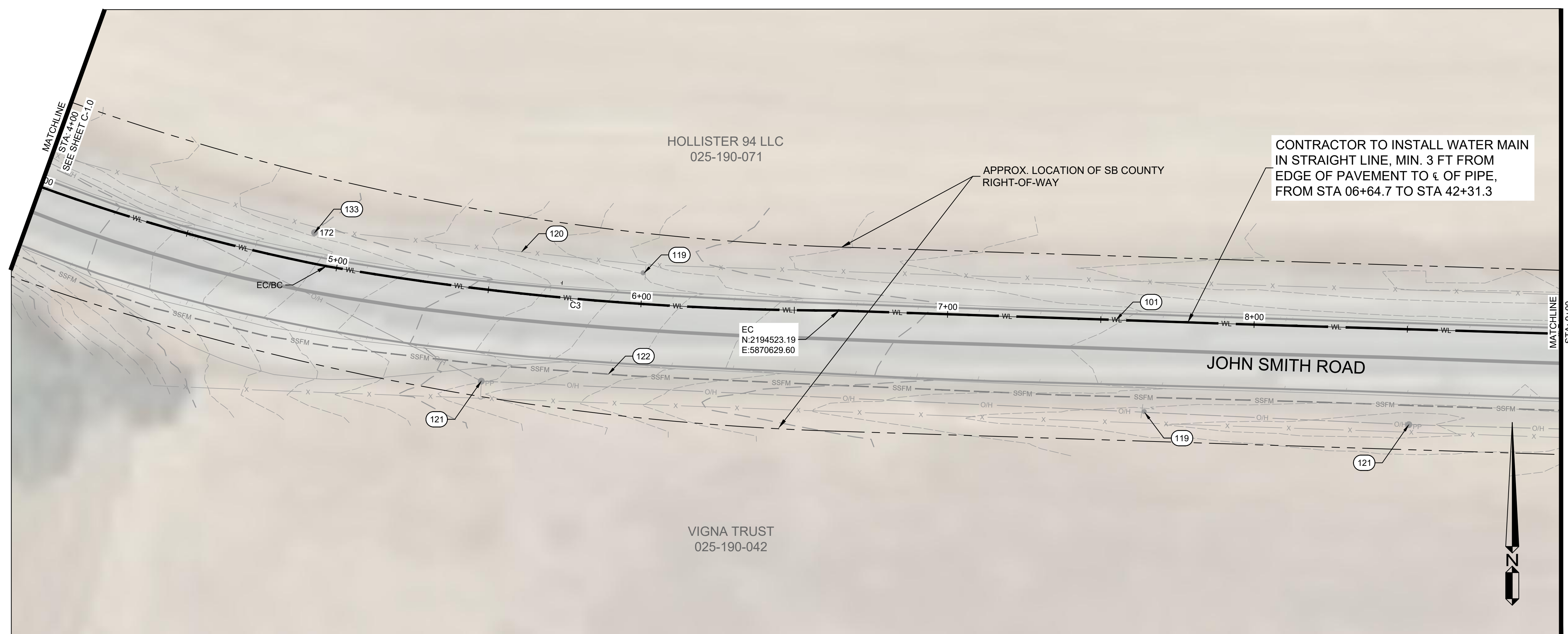
JOB #: 0557-0005
 DESIGNERS: ZCM
 DRAWN BY: ONW
 DATE: 11/13/24
**DRAWING NO.
 C-1.1**
 4 OF 19 SHEETS

REFERENCE NOTES:

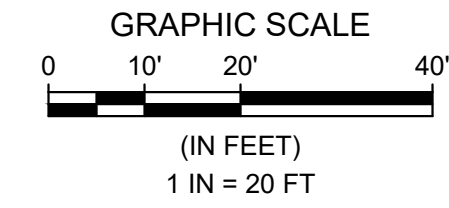
101	PROPOSED 8" DR 18 C900 PVC WATER MAIN. CL OF PIPE INSTALLED IN EX. JOHN SMITH ROAD, 3 FT MIN. FROM EDGE OF PAVEMENT, AS SHOWN. REFER TO DETAIL 1, SHEET C-2.0 FOR TYPICAL TRENCH DETAIL.
119	EXISTING SIGNAGE, PROTECT-IN-PLACE.
120	EXISTING FENCE, PROTECT-IN-PLACE.
121	EXISTING POWER POLE, PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
133	SURVEY MONUMENT, PROTECT-IN-PLACE. SEE FOUND MONUMENT COORDINATE TABLE ON SHEET G-2.0.

LINE/CURVE TABLE

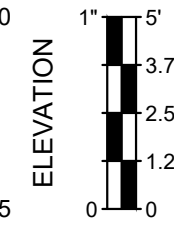
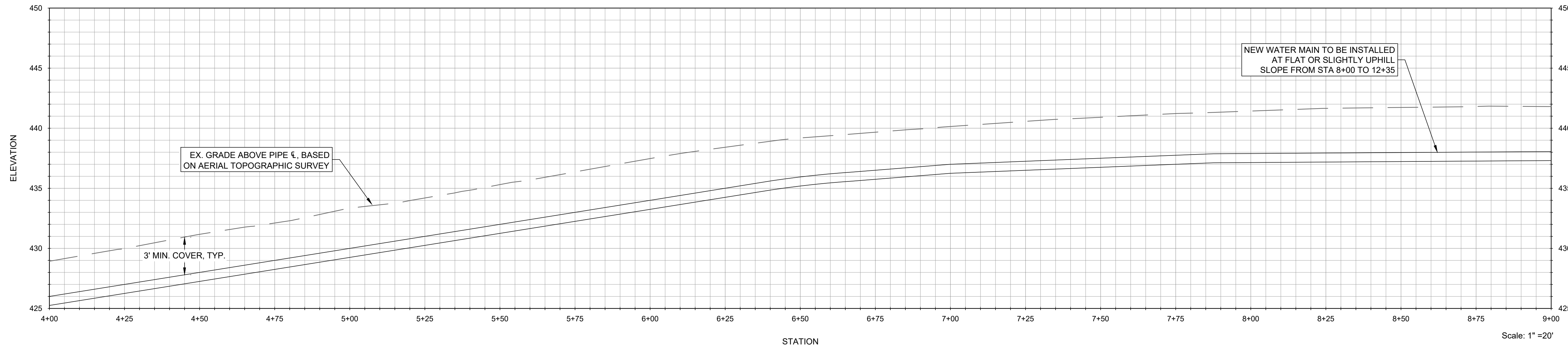
LINE #	LENGTH (FT)	RADIUS	DELTA
C3	168.0	983.38	9°47'23"

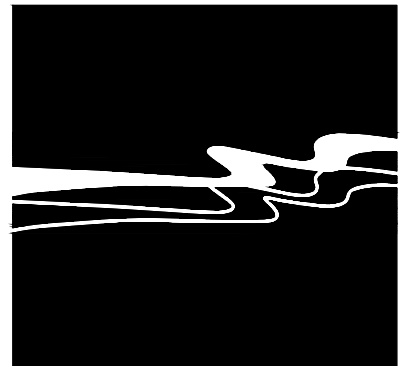


PLAN VIEW



PROFILE VIEW





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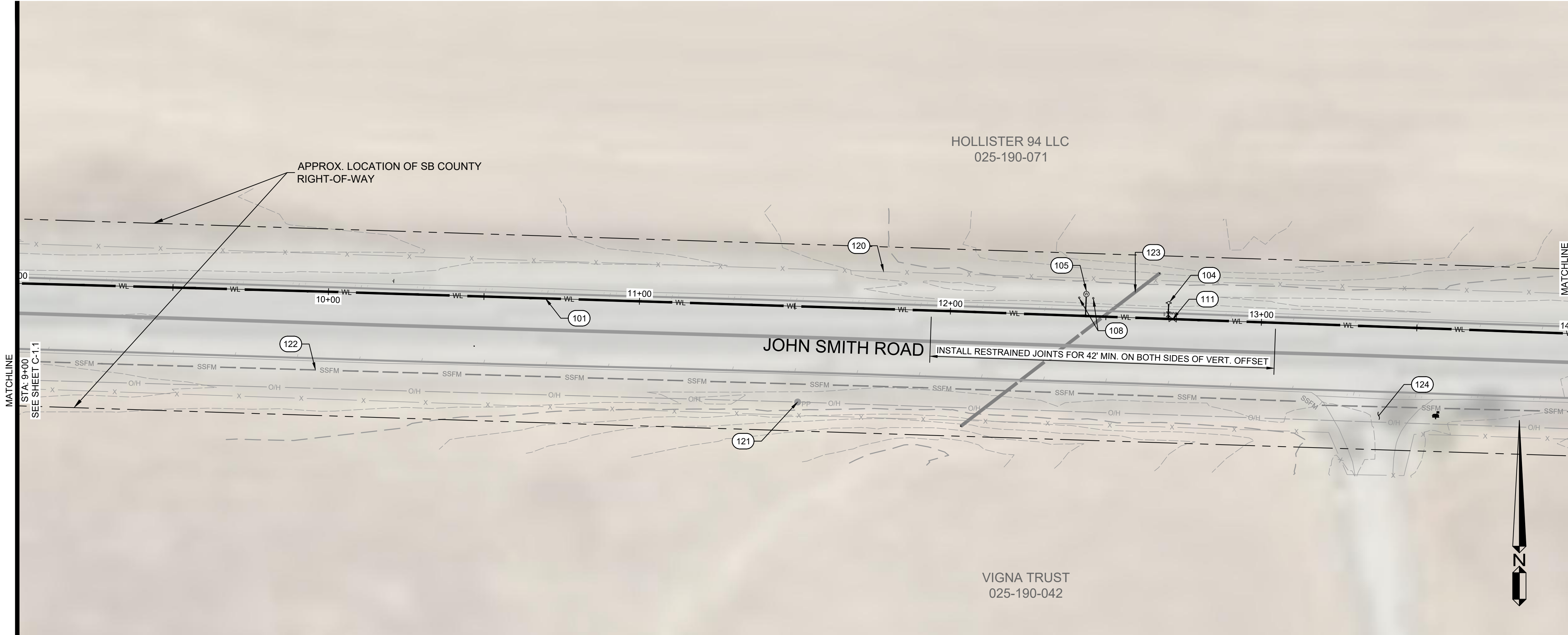
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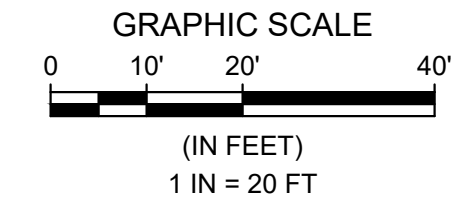
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 WATER SYSTEM CONSOLIDATION PROJECT
 PLAN & PROFILE**

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**DRAWING NO.
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 5 OF 19 SHEETS

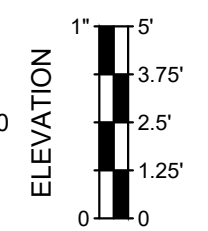
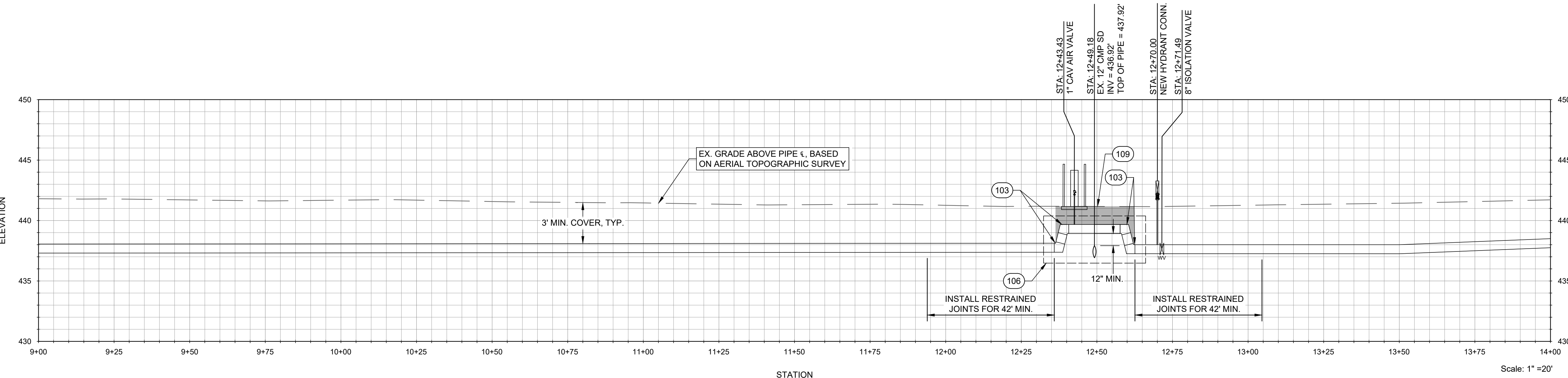
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103	STANDARD 8" DI 45° EL FITTING, MJ X MJ CONNECTION.
104	NEW FIRE HYDRANT ASSEMBLY PER DETAILS 1 AND 2, SHEET C-2.4. INSTALL ON THE NORTH SIDE OF JOHN SMITH ROAD, MIN. 4' SETBACK FROM EX. EDGE OF PAVEMENT.
105	NEW 1" COMBINATION AIR AND VACUUM RELEASE VALVE, RISER, AND ENCLOSURE. INSTALLED ON THE NORTH SIDE OF JOHN SMITH ROAD, MIN. 4' SETBACK FROM EX. EDGE OF PAVEMENT. INSTALLED PER DETAIL 4, SHEET C-2.4.
106	VERTICAL OFFSET IN PROPOSED WATER MAIN PER DETAIL 1, SHEET C-2.1.
108	STEEL BOLLARDS INSTALLED ON EAST AND WEST SIDES OF AIR VALVE ENCLOSURE. MIN. 2' SEPARATION BETWEEN BOLLARDS AND ENCLOSURE. REFER TO DETAIL 5, SHEET C-2.1 FOR BOLLARD DETAIL.
109	EXTENT OF PROPOSED WATER MAIN IN SHALLOW TRENCH AS SHOWN. INSTALL PER DETAIL 2, SHEET C-2.0.
111	NEW 8" ISOLATION VALVE. INSTALL PER DETAIL 5, SHEET C-2.4.
120	EXISTING FENCE. PROTECT-IN-PLACE.
121	EXISTING POWER POLE. PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
123	EXISTING 12" CMP STORM DRAIN. PROTECT-IN-PLACE.



PLAN VIEW



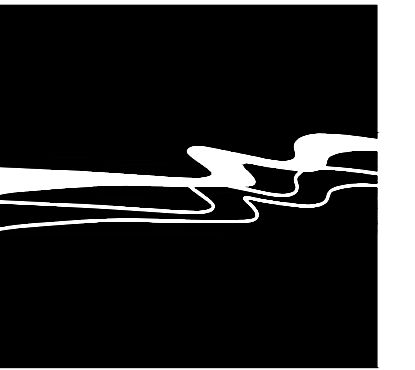
PROFILE VIEW



Scale: 1" = 20'

REFERENCE NOTES:

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132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.



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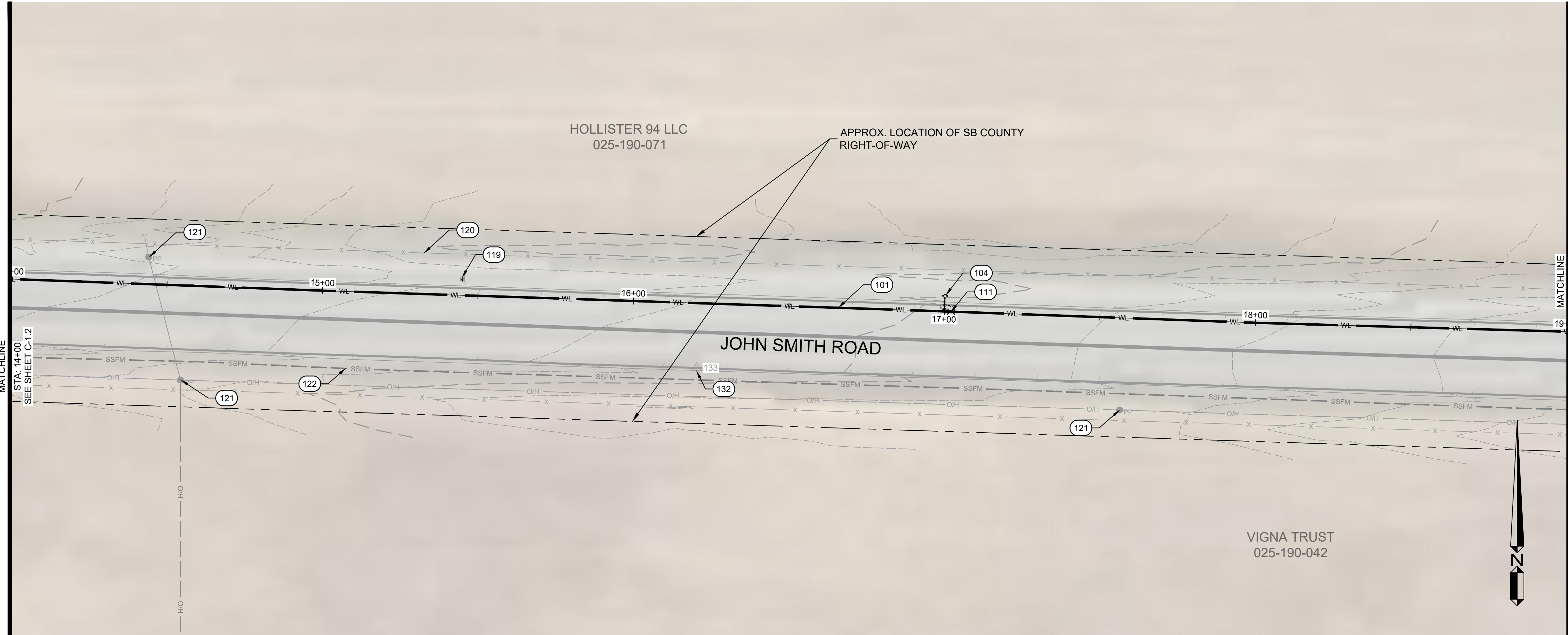
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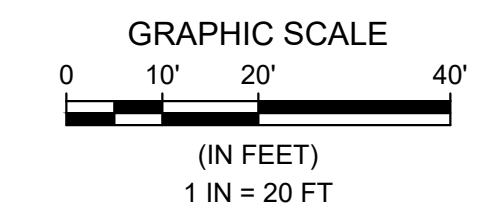
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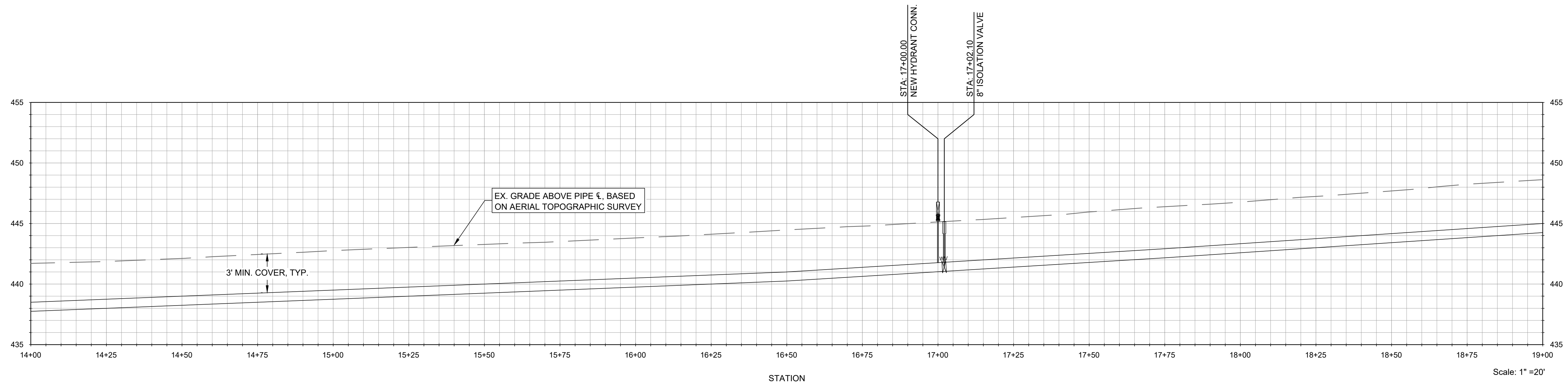
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PLAN VIEW



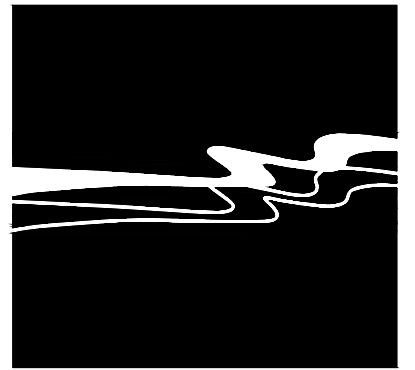
PROFILE VIEW



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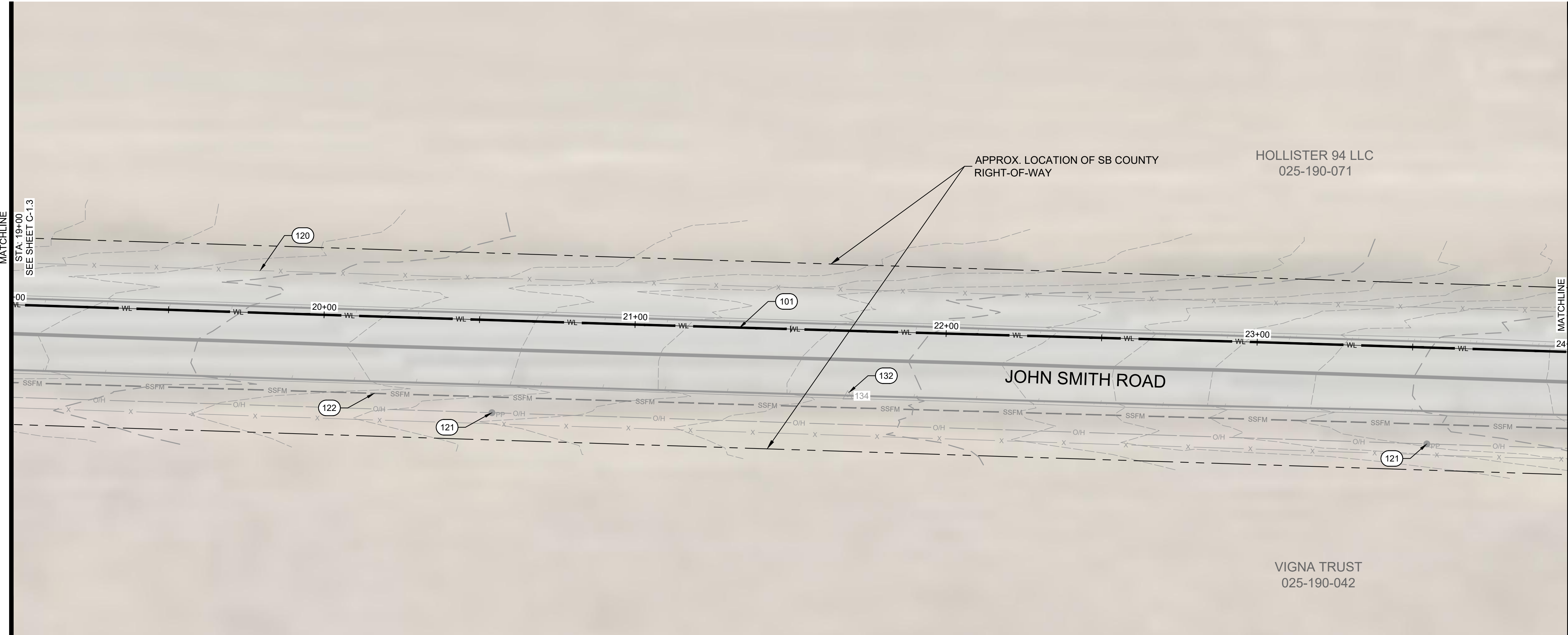
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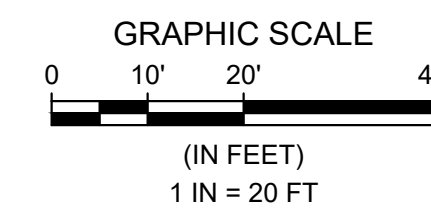
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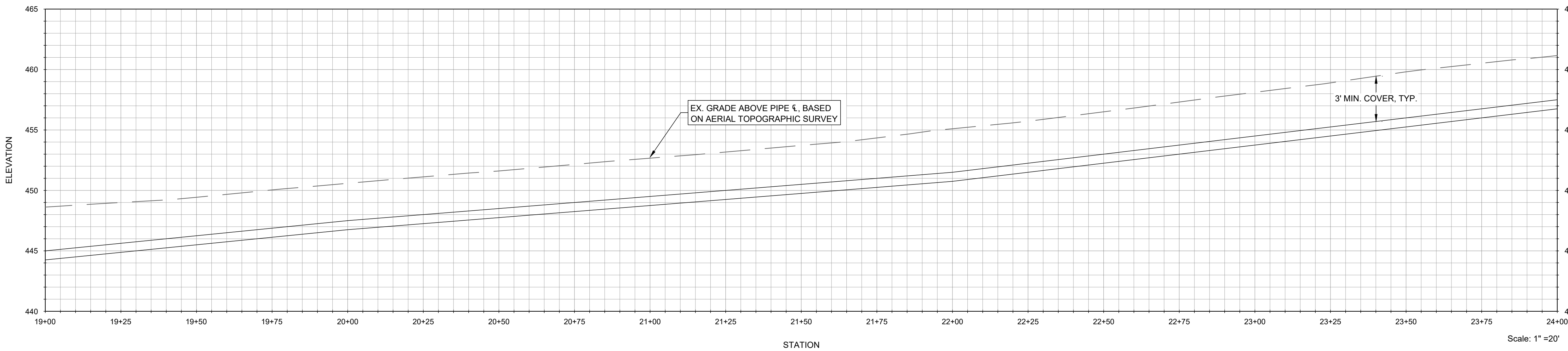
101	PROPOSED 8" DR 18 C900 PVC WATER MAIN. CL OF PIPE INSTALLED IN EX. JOHN SMITH ROAD, 3 FT MIN. FROM EDGE OF PAVEMENT, AS SHOWN. REFER TO DETAIL 1, SHEET C-2.0 FOR TYPICAL TRENCH DETAIL.
120	EXISTING FENCE. PROTECT-IN-PLACE.
121	EXISTING POWER POLE. PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.



PLAN VIEW



PROFILE VIEW



**BEST ROADS MUTUAL WATER COMPANY
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PLAN & PROFILE**

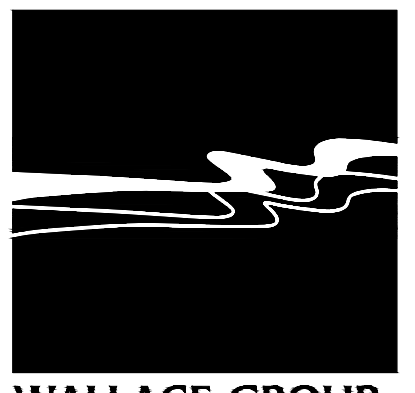
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C-1.4

7 OF 19 SHEETS

REFERENCE NOTES:	
101	PROPOSED 8" DR 18 C900 PVC WATER MAIN. CL OF PIPE INSTALLED IN EX. JOHN SMITH ROAD, 3 FT MIN. FROM EDGE OF PAVEMENT, AS SHOWN. REFER TO DETAIL 1, SHEET C-2.0 FOR TYPICAL TRENCH DETAIL.
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111	NEW 8" ISOLATION VALVE. INSTALL PER DETAIL 5, SHEET C-2.4.
116	EX. GROUNDWATER WELL AND ASSOCIATED FACILITIES TO BE DEMOLISHED/ABANDONED PER WELL ABANDONMENT DETAIL ON SHEET C-2.2.
120	EXISTING FENCE. PROTECT-IN-PLACE.
121	EXISTING POWER POLE, PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
124	EXISTING DRIVEWAY/PROPERTY ACCESS. PROTECT DRIVEWAY AND NEARBY STRUCTURES IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ACCESS DURING CONSTRUCTION.
132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.



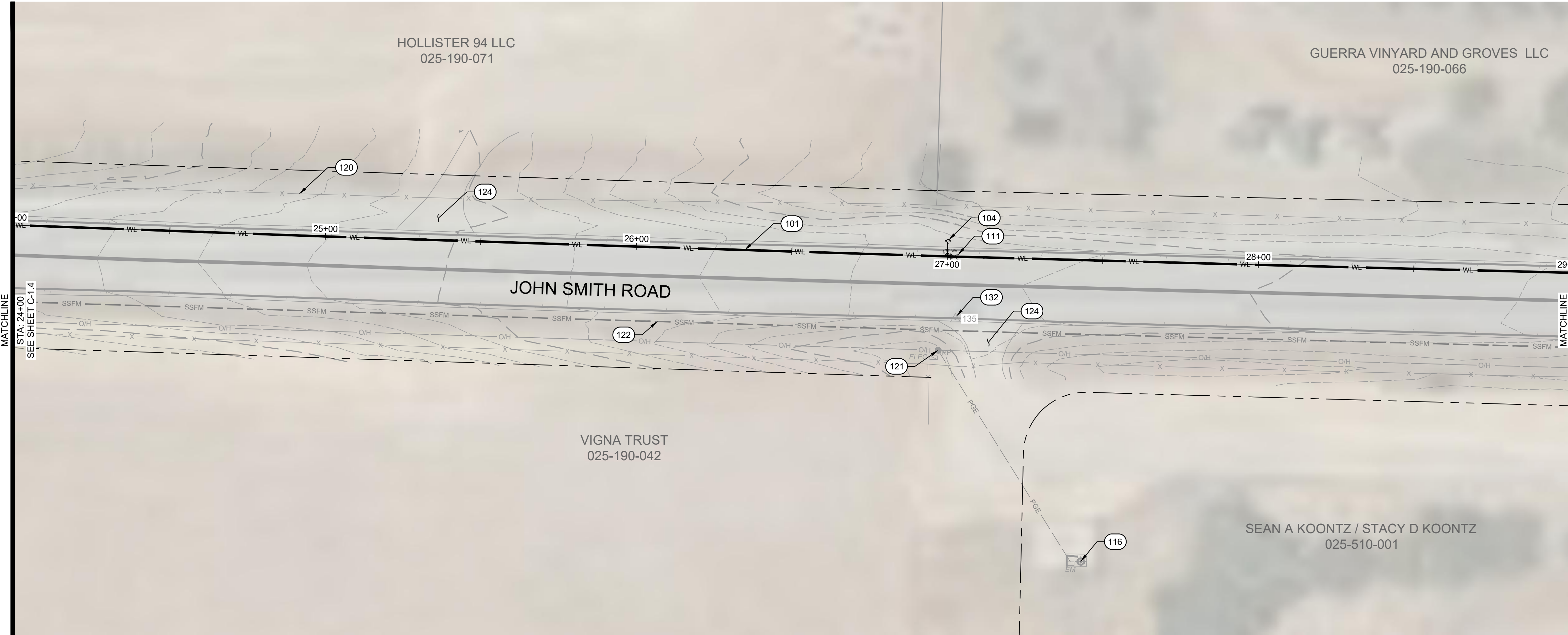
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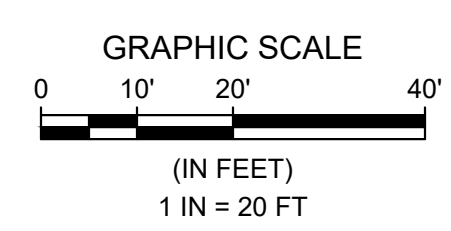
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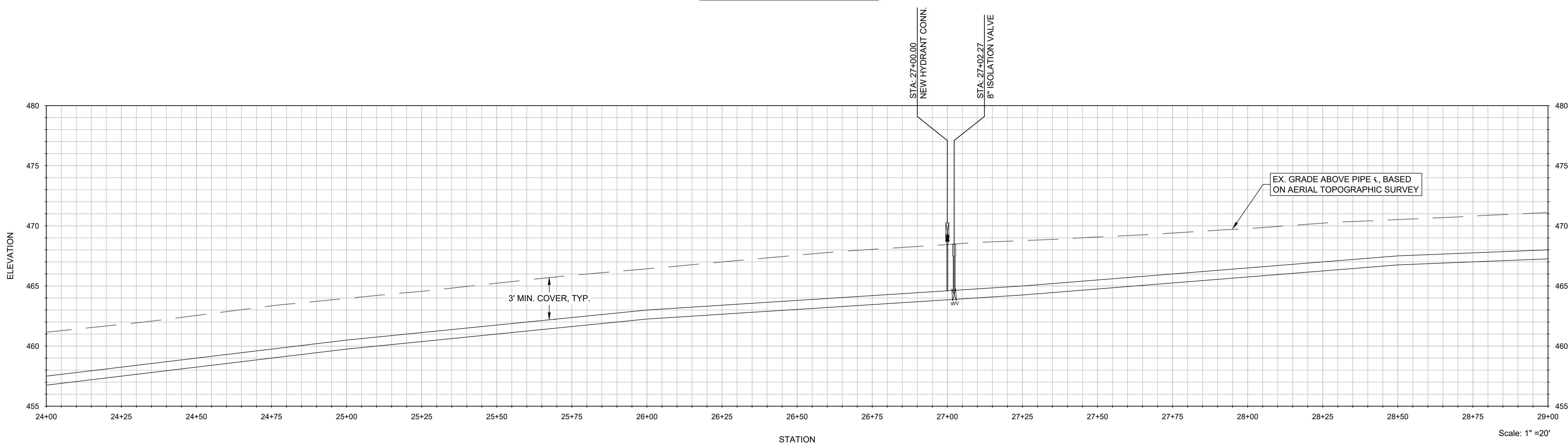
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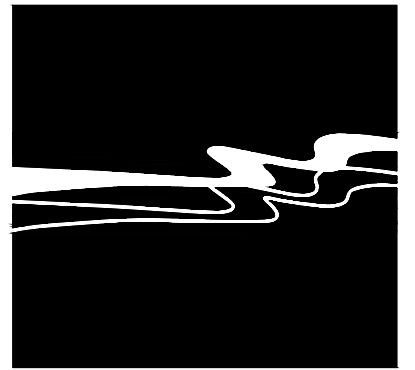


PROFILE VIEW



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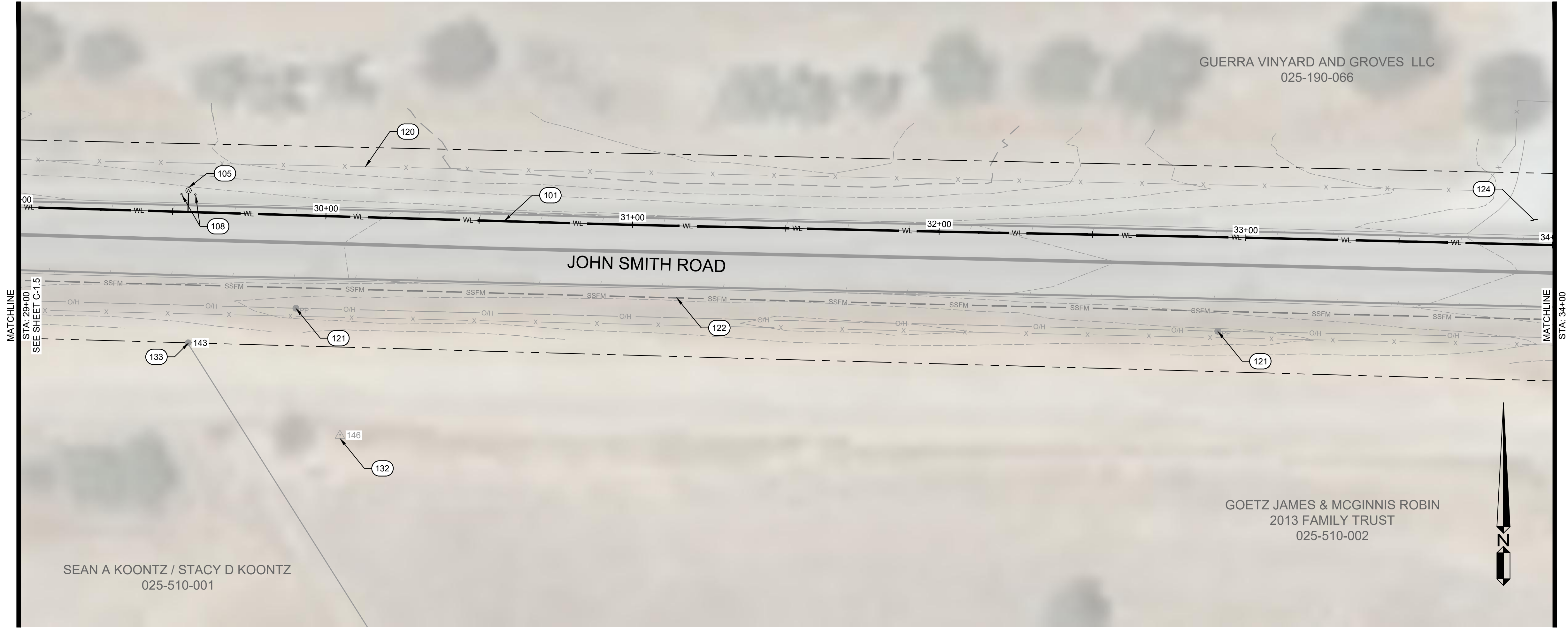


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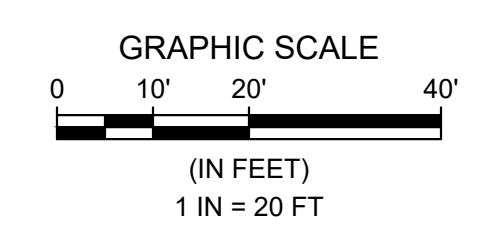
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 C-1.6**
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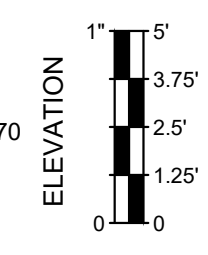
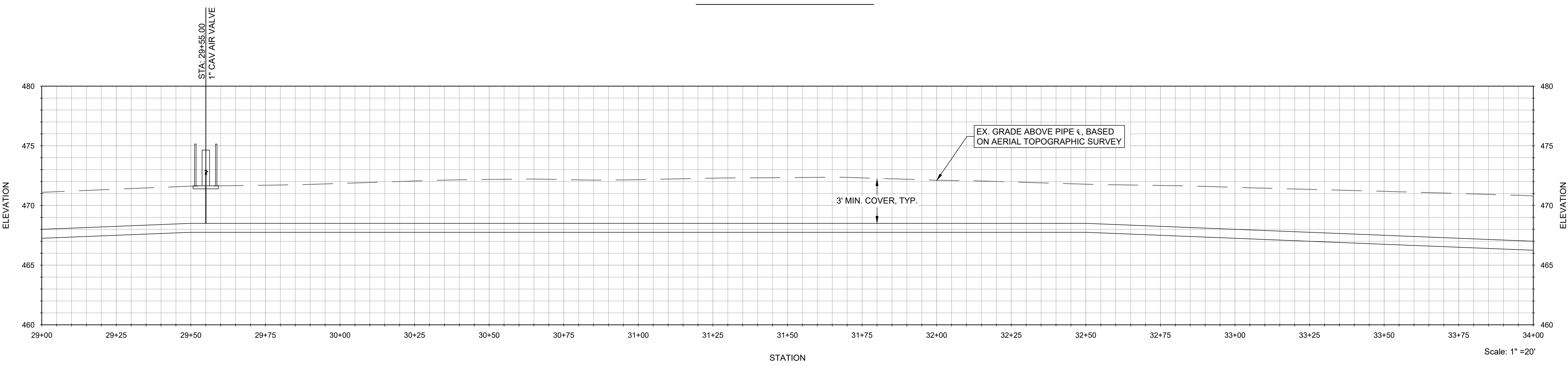
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121	EXISTING POWER POLE. PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
124	EXISTING DRIVEWAY/PROPERTY ACCESS. PROTECT DRIVEWAY AND NEARBY STRUCTURES IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ACCESS DURING CONSTRUCTION.
132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.
133	SURVEY MONUMENT. PROTECT-IN-PLACE. SEE FOUND MONUMENT COORDINATE TABLE ON SHEET G-2.0.



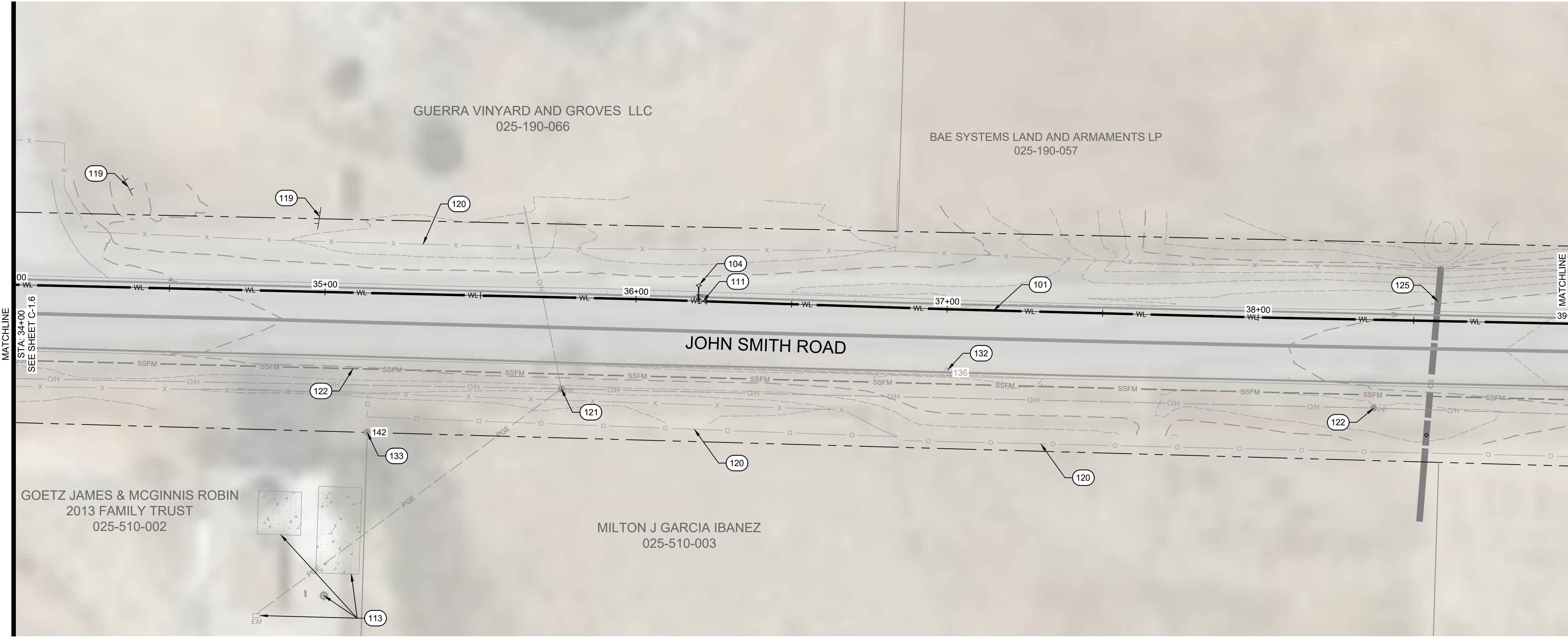
PLAN VIEW



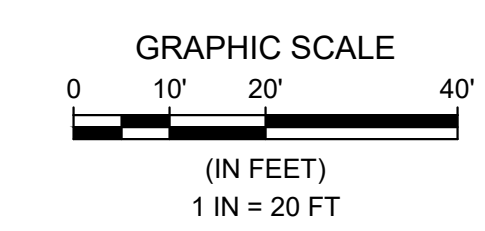
PROFILE VIEW



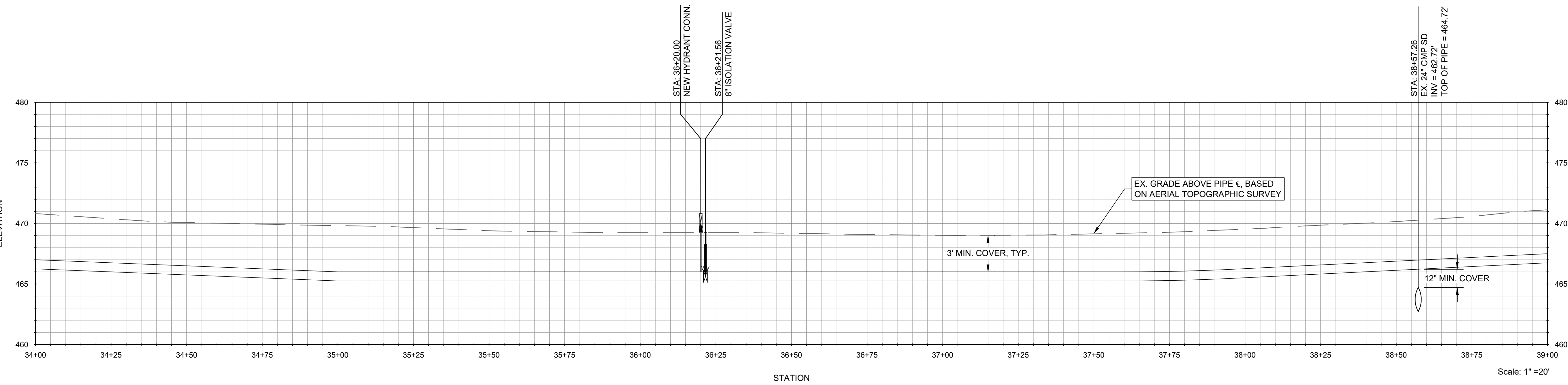
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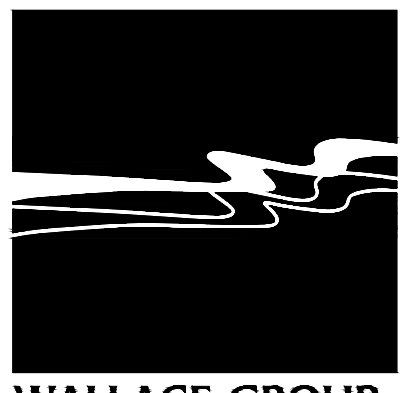
PLAN VIEW



PROFILE VIEW



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113	EX. GROUNDWATER WELL AND ASSOCIATED FACILITIES TO BE DEMOLISHED/ABANDONED PER WELL ABANDONMENT DETAIL ON SHEET C-2.3.
119	EXISTING SIGNAGE, PROTECT-IN-PLACE.
120	EXISTING FENCE, PROTECT-IN-PLACE.
121	EXISTING POWER POLE, PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL100 PVC SSFM. PROTECT-IN-PLACE.
125	EXISTING 24" CMP STORM DRAIN, PROTECT-IN-PLACE.
132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.
133	SURVEY MONUMENT, PROTECT-IN-PLACE. SEE FOUND MONUMENT COORDINATE TABLE ON SHEET G-2.0.



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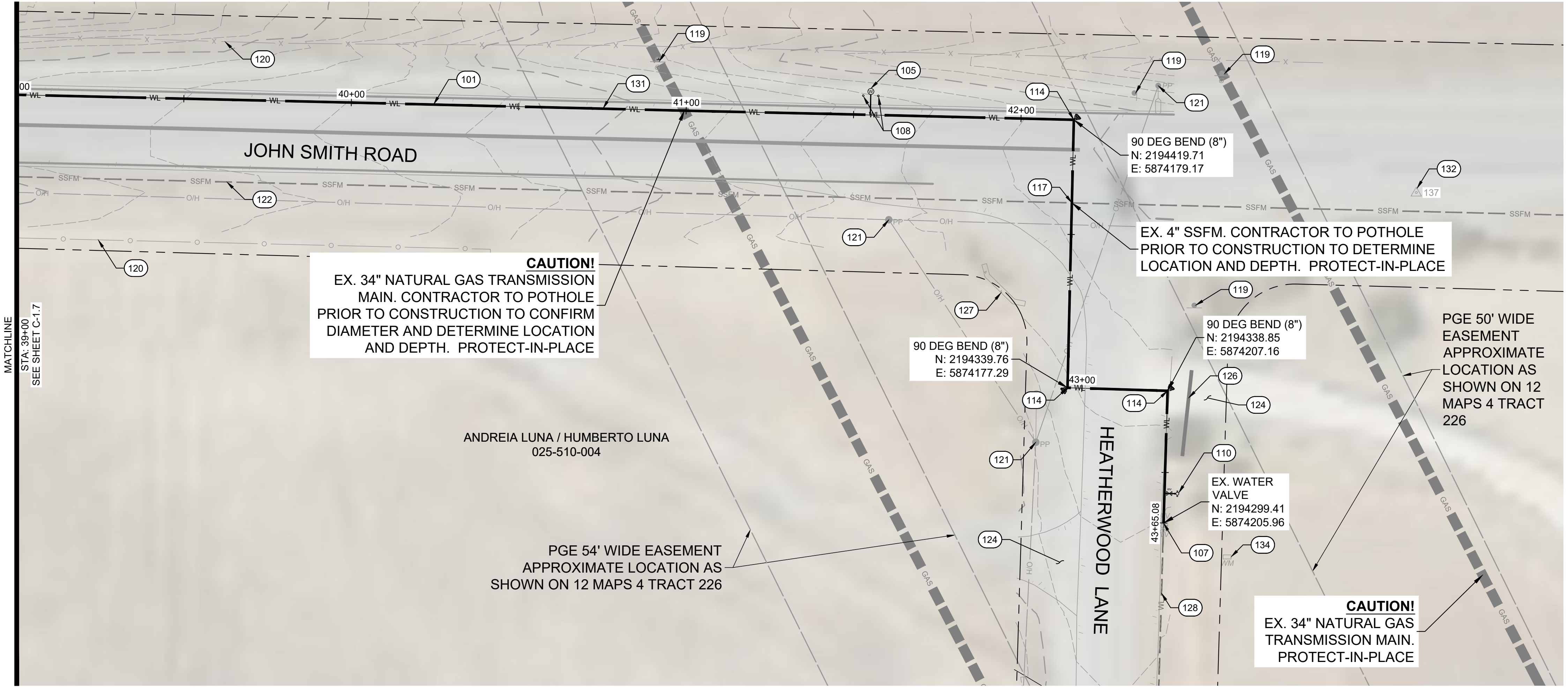
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WATER SYSTEM CONSOLIDATION PROJECT
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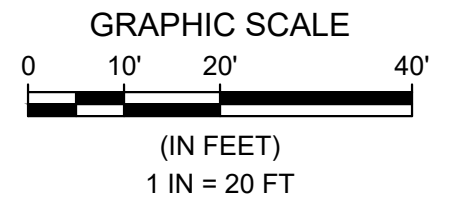
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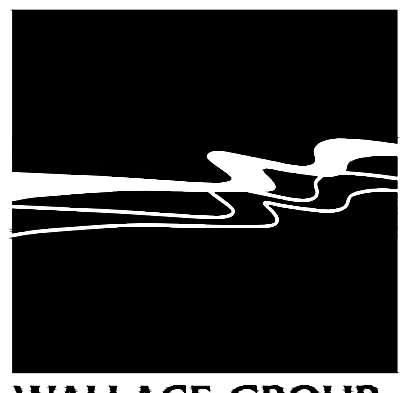
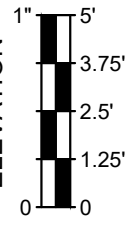
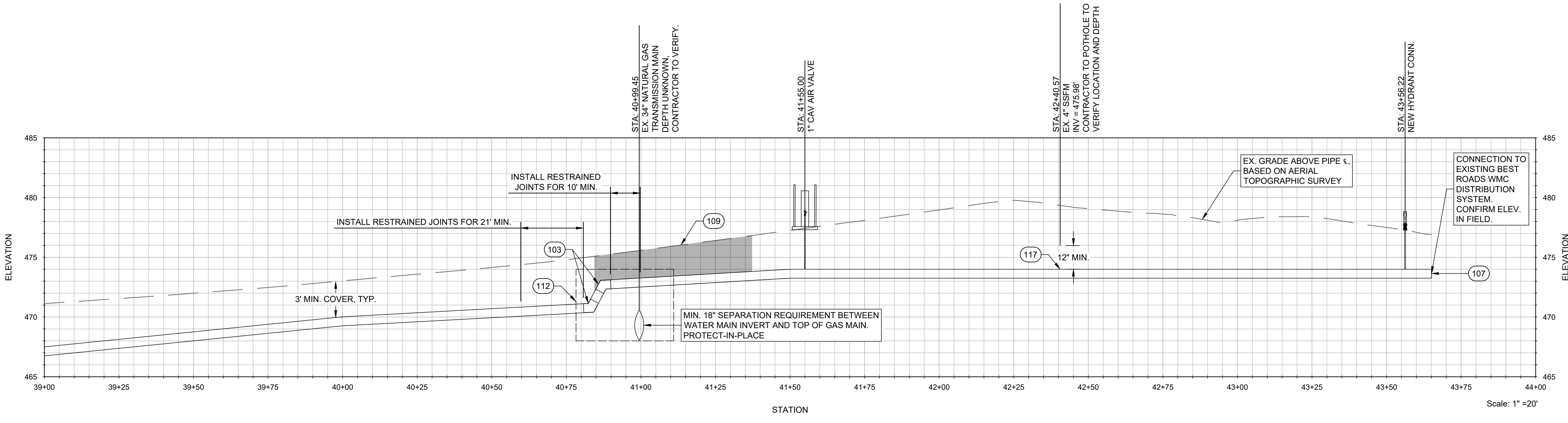
PLAN VIEW



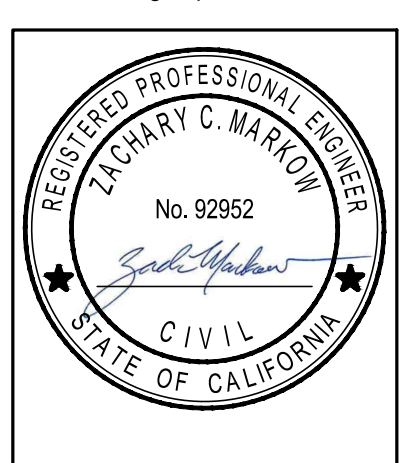
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103	STANDARD 8" DI 45° EL FITTING, MJ X MJ CONNECTION.
105	NEW 1" COMBINATION AIR AND VACUUM RELEASE VALVE, RISER, AND ENCLOSURE. INSTALLED ON THE NORTH SIDE OF JOHN SMITH ROAD, MIN. 4' SETBACK FROM EX. EDGE OF PAVEMENT. INSTALLED PER DETAIL 4, SHEET C-2.4.
107	CONNECT PROPOSED WATER MAIN TO EX. BEST ROADS WATER DISTRIBUTION SYSTEM AT EX. WATER VALVE LOCATED IN HEATHERWOOD LANE, AS SHOWN. REFER TO DETAIL 4, SHEET C-2.0
108	STEEL BOLLARDS INSTALLED ON EAST AND WEST SIDES OF AIR VALVE ENCLOSURE. MIN. 2' SEPARATION BETWEEN BOLLARDS AND ENCLOSURE. REFER TO DETAIL 5, SHEET C-2.1 FOR BOLLARD DETAIL.
109	EXTENT OF PROPOSED WATER MAIN IN SHALLOW TRENCH AS SHOWN. INSTALL PER DETAIL 2, SHEET C-2.0.
110	NEW FIRE HYDRANT CONNECTED TO PROPOSED WATER MAIN. INSTALLED ON THE EAST SIDE OF HEATHERWOOD LANE, MIN. 4' SETBACK FROM EX. EDGE OF PAVEMENT. INSTALLED PER DETAILS 1 AND 2, SHEET C-2.4
112	INSTALL GAS MAIN CROSSING IN SHALLOW TRENCH PER DETAIL 3, SHEET C-2.1.
114	STANDARD 8" DI 90° EL FITTING, MJ X MJ CONNECTION. PROVIDE THRUST BLOCK PER SSCWD STANDARD DETAIL W-10-1. REFER TO DETAIL 6, SHEET C-2.4.
117	INSTALL SSFM UNDER-CROSSING PER DETAIL 2, SHEET C-2.1.
119	EXISTING SIGNAGE, PROTECT-IN-PLACE.
120	EXISTING FENCE. PROTECT-IN-PLACE.
121	EXISTING POWER POLE. PROTECT-IN-PLACE.
122	EXISTING SAN BENITO COUNTY 4" CL 100 PVC SSFM. PROTECT-IN-PLACE.
124	EXISTING DRIVEWAY/PROPERTY ACCESS. PROTECT DRIVEWAY AND NEARBY STRUCTURES IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ACCESS DURING CONSTRUCTION.
126	EXISTING CMP STORM DRAIN, UNKNOWN DIAMETER. PROTECT-IN-PLACE.
127	EXISTING WELCOME SIGN ON CONCRETE BASE, UNKNOWN DIAMETER. PROTECT-IN-PLACE.
128	EXISTING BEST ROADS 6" CL 150 PVC WATER LINE. PROTECT-IN-PLACE.
131	INSTALL RESTRAINED JOINTS FOR MIN. 21' UPSTREAM AND MIN. 10' DOWNSTREAM OF VERTICAL OFFSET.
132	SURVEY CONTROL POINT. SEE SURVEY CONTROL POINT TABLE ON SHEET G-2.0.
134	EXISTING WATER METER. PROTECT-IN-PLACE.

CONTRACTOR TO POT HOLE AT NOTED LOCATIONS AND PROVIDE INFORMATION TO ENGINEER A MINIMUM OF 21 DAYS PRIOR TO CONSTRUCTION. ENGINEER TO OBTAIN NECESSARY DDW VERTICAL SEPARATION VAIRANCE WAIVERS PRIOR TO START OF CONSTRUCTION.

PROFILE VIEW



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BEST ROADS MUTUAL WATER COMPANY
 WATER SYSTEM CONSOLIDATION PROJECT
 PLAN & PROFILE

JOB #: 0557-0005
 DESIGNERS: ZCM
 DRAWN BY: ONW
 DATE: 11/13/24
 DRAWING NO.
C-1.8
 11 OF 19 SHEETS



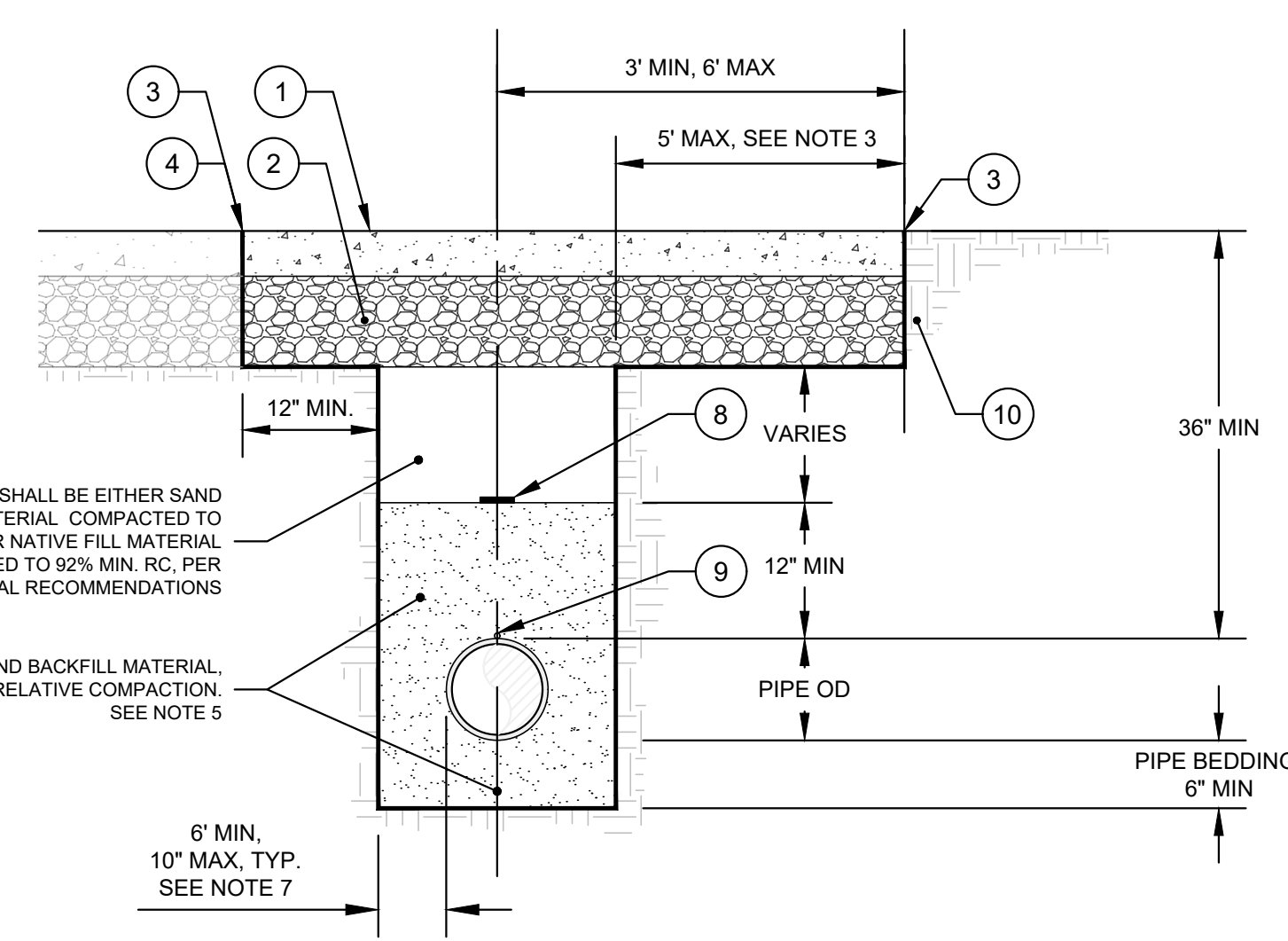
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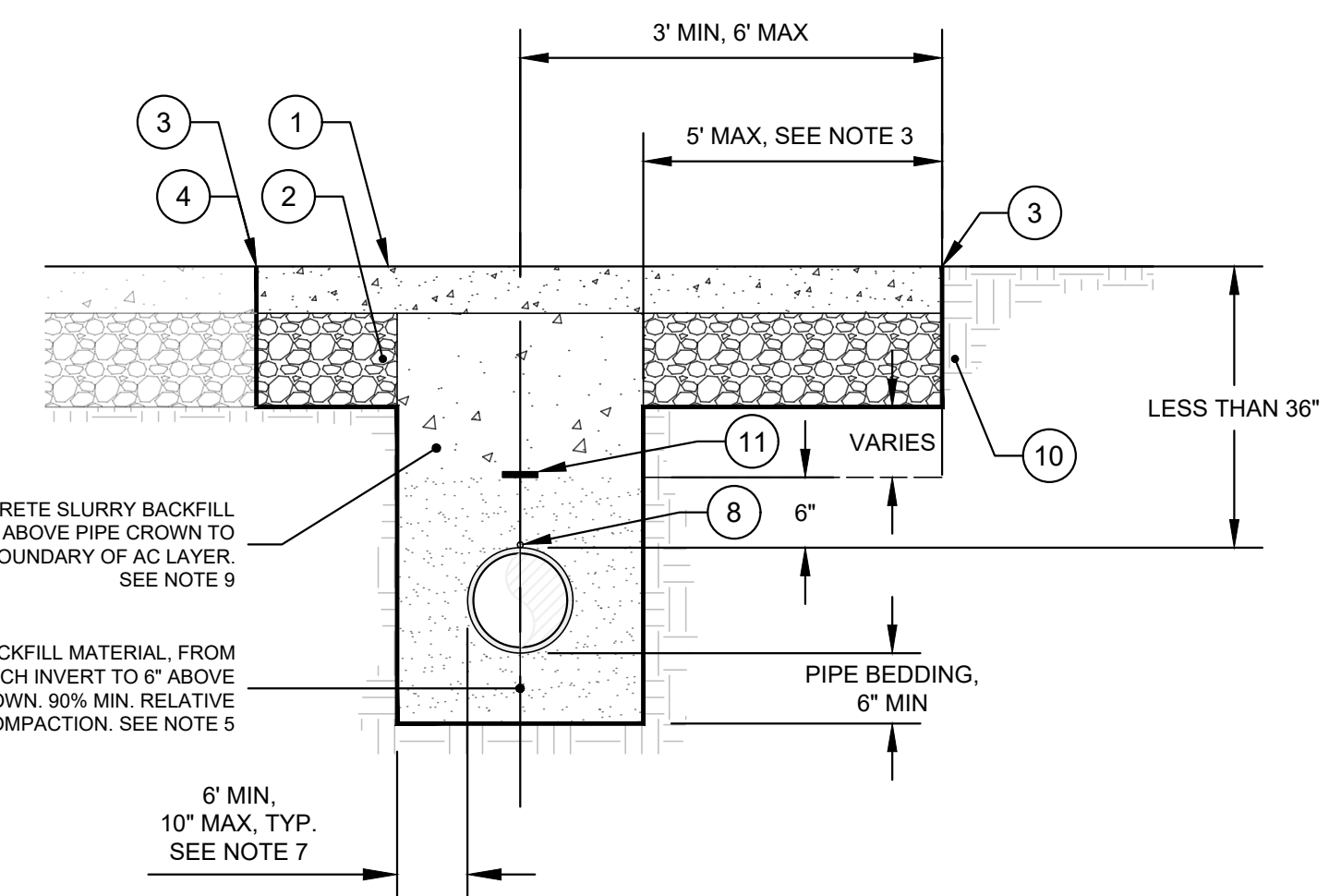
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- NOTES:**
- ASPHALT CEMENT (AC) LAYER. AC SHALL BE HOT PLANT ASPHALT MIX, MIN. 4" THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER. FINISH COURSE SHALL BE PLACED USING A PAVING MACHINE BOX WHERE POSSIBLE.
 - CLASS II AGGREGATE BASE LAYER, MIN. 8" LAYER THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER. MATERIAL COMPACTED TO 95% MIN. RELATIVE COMPACTION. CLASS 100-E-100 PCC MAY BE SUBSTITUTED FOR AGGREGATE BASE UPON APPROVAL OF ENGINEER.
 - EX. AC SHALL BE SAW CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTER LINE WHEN PRACTICAL, UNLESS DIRECTED BY COUNTY OF SAN BENITO (COSB) ENGINEER. SAW CUT AND EX. AC/AB REMOVAL SHALL EXTEND TO EX. EDGE OF PAVEMENT WHENEVER TRENCH SIDEWALL IS WITHIN 5 FEET OF THE EX. EDGE OF PAVEMENT. OTHERWISE, SAWCUT TO EXTEND 12" MIN. PAST TRENCH SIDEWALL.
 - APPLY TACK COAT TO EXISTING AC AT ALL CONTACT SURFACES, PRIOR TO RESURFACING.
 - SAND BACKFILL MATERIAL MINIMUM SAND EQUIVALENT OF 30.
 - EXCAVATIONS TO COMPLY WITH CAL-OSHA REQUIREMENTS/REGULATIONS. SLOPED EXCAVATION ALLOWED WITH APPROVAL OF DISTRICT ENGINEER AND IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
 - SIDE CLEARANCE EXCEEDING MAXIMUMS SHOWN SHALL USE 1-SACK CEMENT-SAND SLURRY OR CLASS II AGGREGATE BASE
 - 3" WIDE POLYETHYLENE NON-DETECTABLE WARMING TAPE, MARKED AND COLOR CODED FOR ALL NEW WATER PIPELINES. INSTALL 12" ABOVE PIPE CROWN UNLESS OTHERWISE SPECIFIED OR SHOWN.
 - 10 GA. TRACER WIRE RUN CONTINUOUSLY ALONG CROWN OF WATER MAIN FROM TIE-IN AT FAIRVIEW ROAD TO CONNECTION WITH BRMWC SYSTEM IN HEATHERWOOD LANE, AS SHOWN.
 - DISTURBED PORTIONS OF EX. GRAVEL SHOULDER SHALL BE BACKFILLED WITH NATIVE MATERIAL, COMPACTED TO 90% PER GEOTECHNICAL RECOMMENDATIONS, OR REPLACED WITH NEW CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
 - RESTORE THERMOPLASTIC STRIPING, PER SPECIFICATIONS, WHERE EX. STRIPING WAS REMOVED DURING EXCAVATION.

1 TYPICAL TRENCH DETAIL

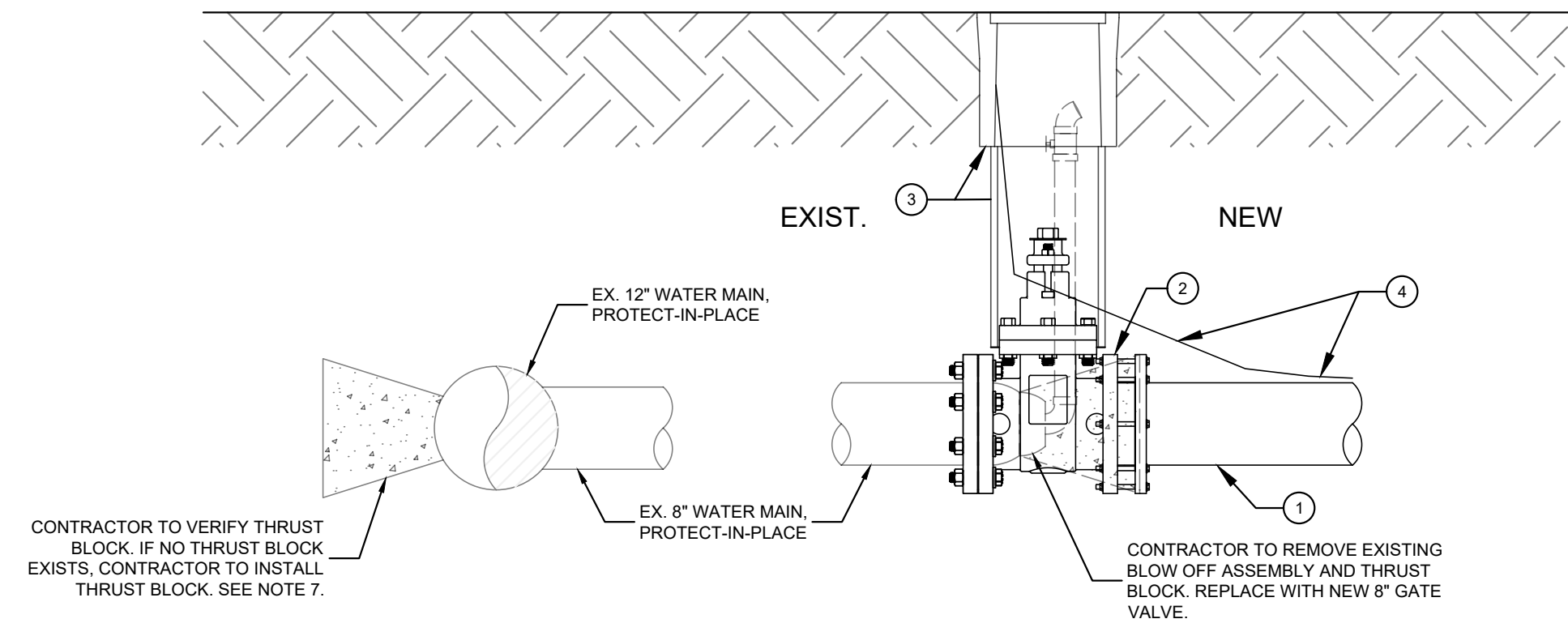
Scale: NTS



- NOTES:**
- ASPHALT CEMENT (AC) LAYER. AC SHALL BE HOT PLANT ASPHALT MIX, MIN. 4" THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER. FINISH COURSE SHALL BE PLACED USING A PAVING MACHINE BOX WHERE POSSIBLE.
 - CLASS II AGGREGATE BASE LAYER, MIN. 8" LAYER THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER. MATERIAL COMPACTED TO 95% MIN. RELATIVE COMPACTION. CLASS 100-E-100 PCC MAY BE SUBSTITUTED FOR AGGREGATE BASE UPON APPROVAL OF ENGINEER.
 - EX. AC SHALL BE SAW CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTER LINE WHEN PRACTICAL, UNLESS DIRECTED BY COUNTY OF SAN BENITO (COSB) ENGINEER. SAW CUT AND EX. AC/AB REMOVAL SHALL EXTEND TO EX. EDGE OF PAVEMENT WHENEVER TRENCH SIDEWALL IS WITHIN 5 FEET OF THE EX. EDGE OF PAVEMENT. OTHERWISE, SAWCUT TO EXTEND 12" MIN. PAST TRENCH SIDEWALL.
 - APPLY TACK COAT TO EXISTING AC AT ALL CONTACT SURFACES, PRIOR TO RESURFACING.
 - SAND BACKFILL MATERIAL MINIMUM SAND EQUIVALENT OF 30.
 - EXCAVATIONS TO COMPLY WITH CAL-OSHA REQUIREMENTS/REGULATIONS. SLOPED EXCAVATION ALLOWED WITH APPROVAL OF DISTRICT ENGINEER AND IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
 - SIDE CLEARANCE EXCEEDING MAXIMUMS SHOWN SHALL USE 1-SACK CEMENT-SAND SLURRY OR CLASS II AGGREGATE BASE
 - 10 GA. TRACER WIRE RUN CONTINUOUSLY ALONG CROWN OF WATER MAIN FROM TIE-IN AT FAIRVIEW ROAD TO CONNECTION WITH BRMWC SYSTEM IN HEATHERWOOD LANE, AS SHOWN.
 - CONCRETE SLURRY BACKFILL SHALL BE CLASS 100-E-100 PCC AND CURED AT LEAST 24-HOURS PRIOR TO PAVING.
 - DISTURBED PORTIONS OF EX. GRAVEL SHOULDER SHALL BE BACKFILLED WITH NATIVE MATERIAL, COMPACTED TO 90% PER GEOTECHNICAL RECOMMENDATIONS, OR REPLACED WITH NEW CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION.
 - 3" WIDE POLYETHYLENE NON-DETECTABLE WARMING TAPE, MARKED AND COLOR CODED FOR ALL NEW WATER PIPELINES. INSTALL 6" ABOVE PIPE CROWN UNLESS OTHERWISE SPECIFIED OR SHOWN.
 - RESTORE THERMOPLASTIC STRIPING, PER SPECIFICATIONS, WHERE EX. STRIPING WAS REMOVED DURING EXCAVATION.

2 SHALLOW TRENCH BACKFILL DETAIL

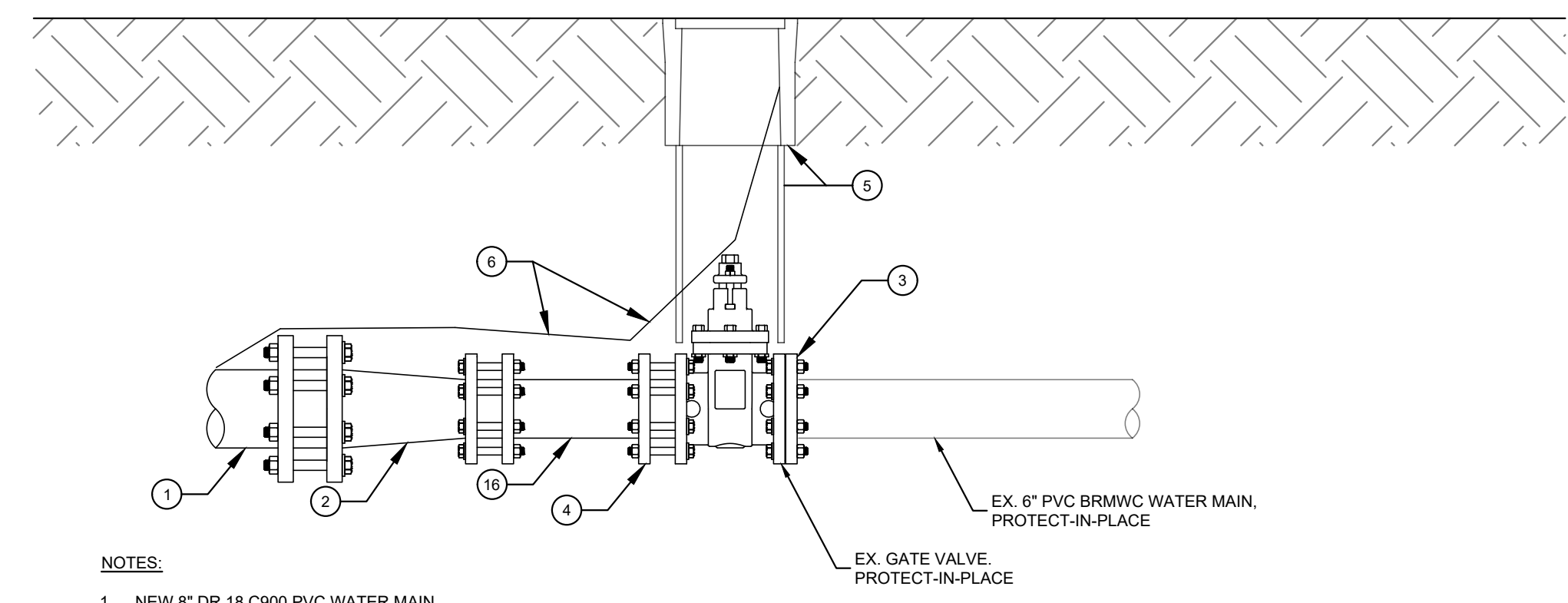
Scale: NTS



- NOTES:**
- NEW 8" DR 18 C900 PVC WATER MAIN.
 - POTHOLE AND VERIFY TIE-IN LOCATION. MATE PLAIN END OF NEW C900 PVC PIPE TO FLG END OF NEW WATER VALVE WITH RESTRAINED COUPLING, MEGAFLANGE OR APPROVED EQUAL. SUBMIT COUPLING FOR REVIEW AND APPROVAL BY ENGINEER.
 - EXISTING TRAFFIC-RATED CONCRETE BOX AND 10" PVC RISER, PROTECT-IN-PLACE.
 - 10-GAUGE COPPER TRACER WIRE. AFFIX TO PIPE WHERE DIRECT BURIED. EXTEND WIRE INTO CONCRETE BOX LEAVING 36" MINIMUM LOOSE COILED WIRE, AND CONNECT TO EX. TRACER WIRE. TRACER WIRE SPLICE SHOWN IN DETAIL 5, SHEET C-2.4.
 - NOTIFY DISTRICT ENGINEER AT LEAST 72 HOURS PRIOR TO ANY WATER TIE-IN OR SHUTDOWN TO ALL EXISTING WATER MAINS. NO SHUTDOWNS SHALL BE ALLOWED ON FRIDAYS OR TWO DAYS PRIOR TO A DISTRICT-RECOGNIZED HOLIDAY.
 - ALL EXISTING VALVES TO BE OPERATED BY SSCWD STAFF ONLY, AND SCHEDULED THROUGH DISTRICT ENGINEER.
 - PLACE THRUST BLOCKS AS PER STANDARD PLAN B-10. REFER TO DETAIL 6, SHEET C-2.4.
 - ALL NEW PIPES AND FITTINGS SHALL BE SWABBED WITH SODIUM HYPOCHLORITE SOLUTION PER AWWA STANDARDS.
 - ALL FITTINGS MUST BE ON-SITE AND ALL FITTINGS, EXCEPT M.J. LONG SLEEVE TYPE, ARE TO BE ASSEMBLED PRIOR TO WATER SYSTEM SHUTDOWN. ALL FITTINGS SHALL BE WRAPPED WITH 10 MIL. MINIMUM POLYETHYLENE SHEET.
 - VALVES 6" THROUGH 12" SHALL BE GATE TYPE, RESILIENT WEDGE, EPOXY COATED, AND COMPLY WITH AWWA C-509 SPECIFICATIONS.
 - WATER TIE-IN HOLE SHALL BE EXCAVATED ONE DAY BEFORE WATER TIE-IN AND COVERED WITH A STEEL PLATE, PER SPECIFICATIONS.
 - CONTRACTOR SHALL PERFORM CHLORINE RESIDUAL TEST AND COLIFORM TEST (PRESENT / ABSENT). RESIDUAL SHALL BE MINIMUM 0.2 PPM FREE CHLORINE.
 - CONTRACTOR SHALL PROVIDE TWO (2) RUNNING CUT-OFF SAWS AND ALL OTHER NEEDED EQUIPMENT ON SITE PRIOR TO TIE-IN. CONTRACTOR SHALL HAVE AT LEAST ONE DEWATERING PUMP PLUS ONE STANDBY PUMP DURING WATER TIE-IN.
 - CONTRACTOR SHALL COMPLY WITH STORM WATER BEST MANAGEMENT PRACTICES WHEN DEWATERING.

3 TIE-IN TO EX. WATER SYSTEM - PROFILE VIEW

Scale: NTS



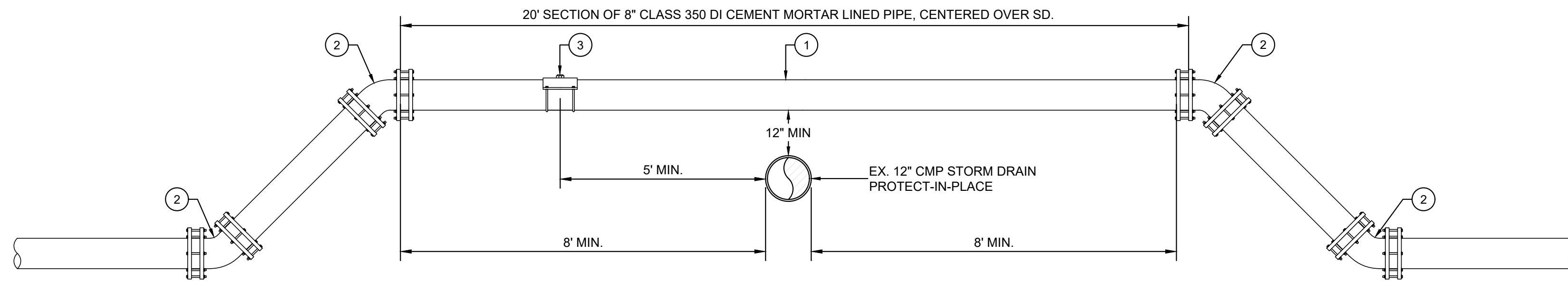
- NOTES:**
- NEW 8" DR 18 C900 PVC WATER MAIN.
 - STANDARD 8" X 6" DUCTILE IRON REDUCER FITTING WITH GASKETS (BOTH ENDS), FIELD FIT TO MATCH SIZE OF EX. BRMWC WATER MAIN. SUBMIT FITTING FOR REVIEW AND APPROVAL BY ENGINEER.
 - POTHOLE AND VERIFY TIE-IN LOCATION AND EX. WATER MAIN SIZE.
 - MATE PLAIN END OF NEW C900 PVC PIPE TO FLG END OF EX. WATER VALVE WITH RESTRAINED COUPLING, MEGAFLANGE OR APPROVED EQUAL. SUBMIT COUPLING FOR REVIEW AND APPROVAL BY ENGINEER.
 - EXISTING TRAFFIC-RATED CONCRETE BOX AND 10" PVC RISER, PROTECT-IN-PLACE.
 - 10-GAUGE COPPER TRACER WIRE. AFFIX TO PIPE WHERE DIRECT BURIED. EXTEND WIRE INTO CONCRETE BOX LEAVING 36" MINIMUM LOOSE COILED WIRE, AND CONNECT TO EX. TRACER WIRE. TRACER WIRE SPLICE SHOWN IN DETAIL 5, SHEET C-2.4.
 - NOTIFY DISTRICT ENGINEER AT LEAST 72 HOURS PRIOR TO ANY WATER TIE-IN OR SHUTDOWN TO ALL EXISTING WATER MAINS. NO SHUTDOWNS SHALL BE ALLOWED ON FRIDAYS OR TWO DAYS PRIOR TO A DISTRICT-RECOGNIZED HOLIDAY.
 - ALL EXISTING VALVES TO BE OPERATED BY SUNNYSLOPE WATER DISTRICT STAFF ONLY, AND SCHEDULED THROUGH DISTRICT ENGINEER.
 - ALL NEW PIPES AND FITTINGS SHALL BE SWABBED WITH SODIUM HYPOCHLORITE SOLUTION PER AWWA STANDARDS.
 - ALL FITTINGS MUST BE ON-SITE AND ALL FITTINGS, EXCEPT M.J. LONG SLEEVE TYPE, ARE TO BE ASSEMBLED PRIOR TO WATER SYSTEM SHUTDOWN. ALL FITTINGS SHALL BE WRAPPED WITH 10 MIL. MINIMUM POLYETHYLENE SHEET.
 - VALVES 6" THROUGH 12" SHALL BE GATE TYPE, RESILIENT WEDGE, EPOXY COATED, AND COMPLY WITH AWWA C-509 SPECIFICATIONS.
 - WATER TIE-IN HOLE SHALL BE EXCAVATED ONE DAY BEFORE WATER TIE-IN AND COVERED WITH A STEEL PLATE, PER SPECIFICATIONS.
 - CONTRACTOR SHALL PERFORM CHLORINE RESIDUAL TEST AND COLIFORM TEST (PRESENT / ABSENT). RESIDUAL SHALL BE MINIMUM 0.2 PPM FREE CHLORINE.
 - CONTRACTOR SHALL PROVIDE TWO (2) RUNNING CUT-OFF SAWS AND ALL OTHER NEEDED EQUIPMENT ON SITE PRIOR TO TIE-IN. CONTRACTOR SHALL HAVE AT LEAST ONE DEWATERING PUMP PLUS ONE STANDBY PUMP DURING WATER TIE-IN.
 - CONTRACTOR SHALL COMPLY WITH STORM WATER BEST MANAGEMENT PRACTICES WHEN DEWATERING.
 - NEW 1 LF OF DR 18 C900 PVC PIPE. MATCH SIZE OF EX. BRMWC WATER MAIN.

4 TIE-IN TO EX. BRMWC WATER SYSTEM - PROFILE VIEW

Scale: NTS

SUNNYSLOPE COUNTY WATER DISTRICT
 WATER SYSTEM CONSOLIDATION PROJECT
 DETAILS

JOB #: 0557-0005
 DESIGNERS: ZCM
 DRAWN BY: ONW
 DATE: 11/13/24
 DRAWING NO.
 C-2.0
 12 OF 19 SHEETS

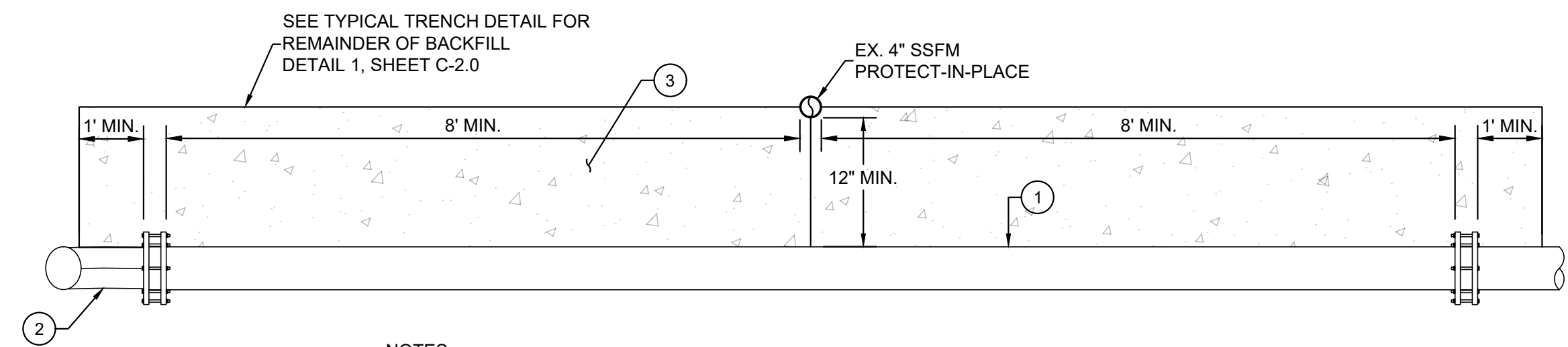


NOTES:

1. 8" CLASS 350 DI CEMENT MORTAR LINED PIPE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C-105. REFER TO SSCWD STANDARD PLAN W-11, DETAIL 3, SHEET C-2.4.
2. 8" CLASS 350 DI 45° EL FITTING, MJ x MJ CONNECTION. POLYETHYLENE WRAP PER AWWA C-105.
3. INSTALL CONTINUOUS ACTING AIR VALVE PER DETAIL 4, SHEET C-2.4.

1 STORM DRAIN CROSSING VERTICAL OFFSET DETAIL- STA 12+49.18

Scale: NTS

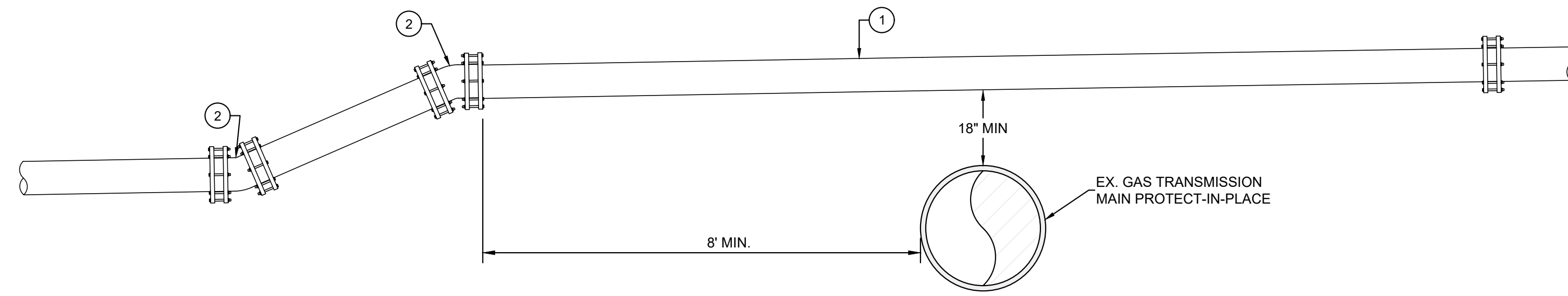


NOTES:

1. 20 LF OF 8" CLASS 350 DI CEMENT MORTAR LINED PIPE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C-105, CENTERED OVER EX. SSFM.
2. 8" CLASS 350 DI 45° EL FITTING, MJ x MJ CONNECTION. POLYETHYLENE WRAP PER AWWA C-105.
3. ONE SACK SLURRY BACKFILL FROM PIPE SPRING LINE OF NEW WATER MAIN TO PIPE SPRING LINE OF EXISTING UTILITY.

2 4" SANITARY SEWER FORCE MAIN UNDERCROSSING DETAIL- STA 42+40.57

Scale: NTS

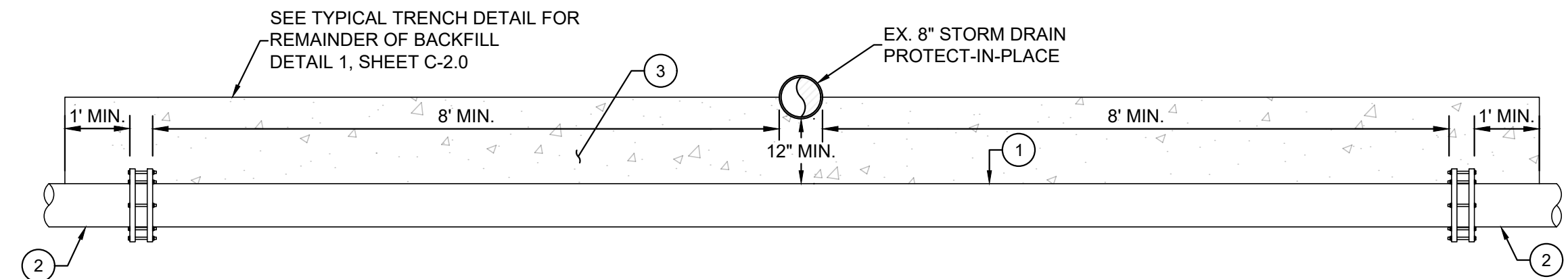


NOTES:

1. 20 LF OF 8" CLASS 350 DI CEMENT MORTAR LINED PIPE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C-105, CENTERED OVER EX. GAS MAIN.
2. 8" CLASS 350 DI 22.5° EL FITTING, MJ x MJ CONNECTION. POLYETHYLENE WRAP PER AWWA C-105.

3 GAS TRANSMISSION MAIN VERTICAL OFFSET DETAIL- STA 40+99.45

Scale: NTS

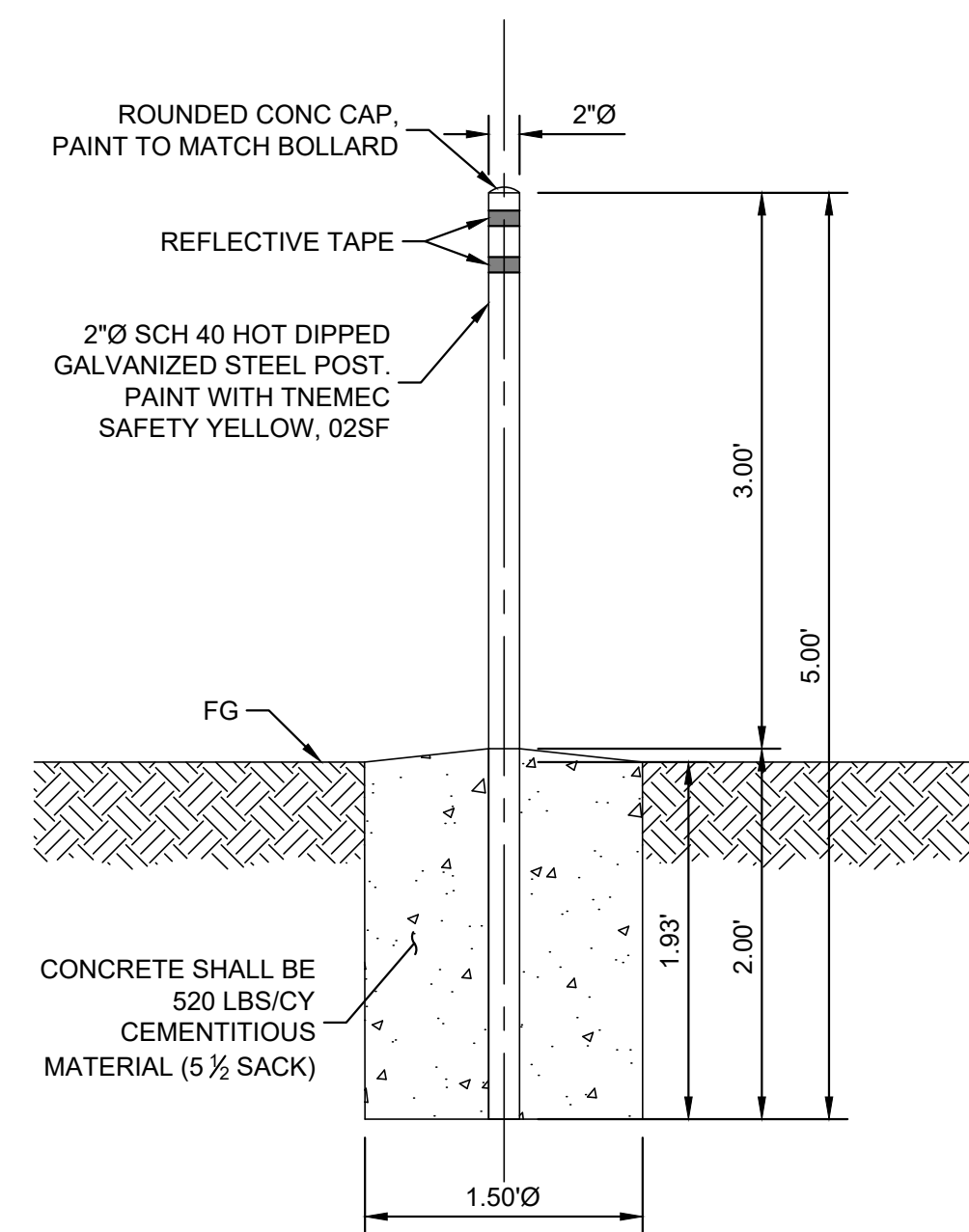


NOTES:

1. 20 LF OF 8" CLASS 350 DI CEMENT MORTAR LINED PIPE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C-105, CENTERED OVER EX. SD.
2. 8" C900 PVC, MJ x MJ CONNECTION TO 8" DI.
3. ONE SACK SLURRY BACKFILL FROM PIPE SPRING LINE OF NEW WATER MAIN TO PIPE SPRING LINE OF EXISTING UTILITY.

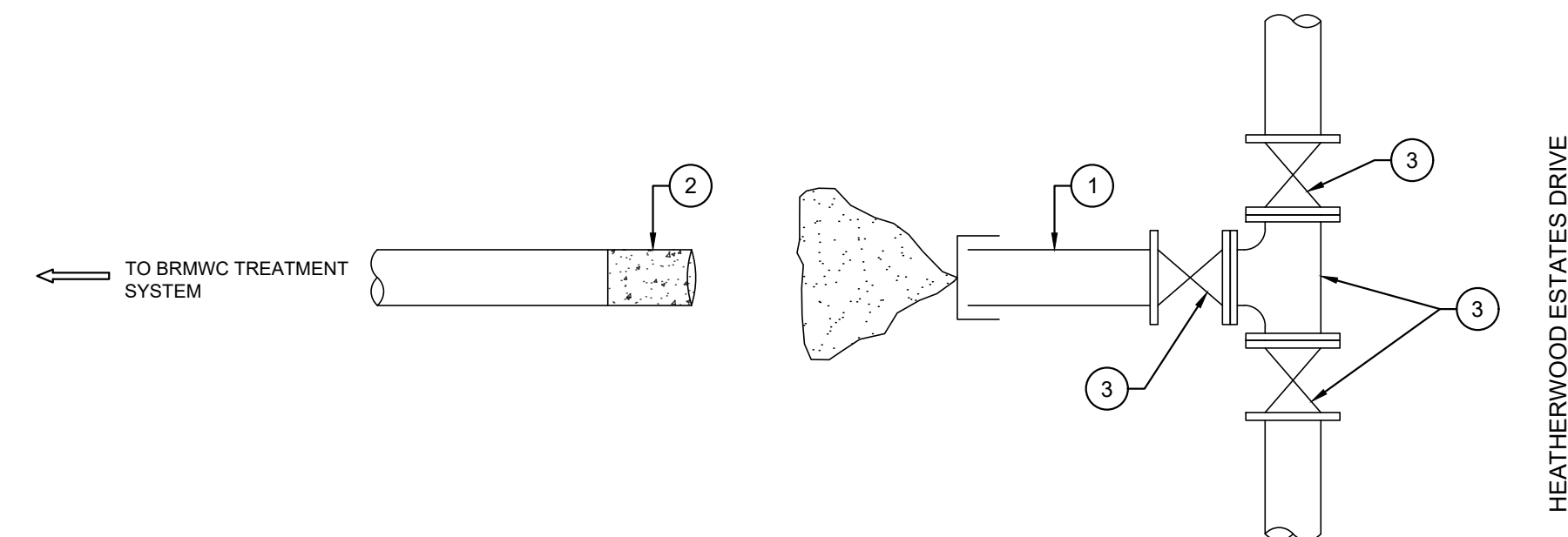
4 8" STORM DRAIN UNDERCROSSING DETAIL- STA 00+91.05

Scale: NTS



5 BOLLARD DETAIL

Scale: NTS

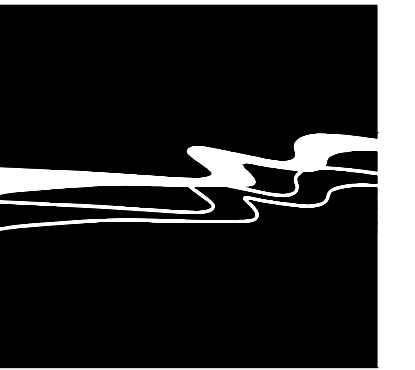


NOTES:

1. CUT EXISTING WATER LINE FROM BRWMC TREATMENT SYSTEM UPSTREAM OF THE EXISTING TEE. CAP AND INSTALL A THRUST BLOCK PER DETAIL 6, SHEET C-2.4.
2. FILL END OF ABANDONED WATER LINE WITH 12" OF GROUT.
3. PROTECT EXISTING TEE AND VALVES IN PLACE.

6 WATER LINE ABANDONMENT AT CONNECTION TO BRWMC SYSTEM

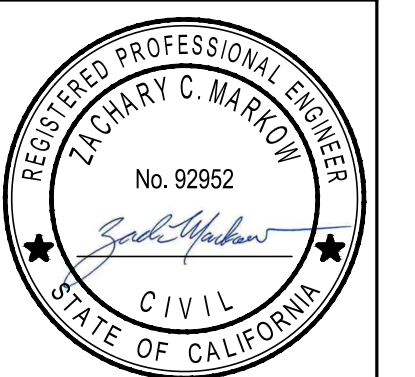
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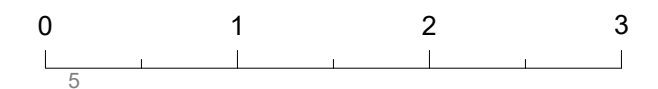
SUNNYSLOPE COUNTY WATER DISTRICT
WATER SYSTEM CONSOLIDATION PROJECT
DETAILS

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24

DRAWING NO.

C-2.1

13 OF 19 SHEETS



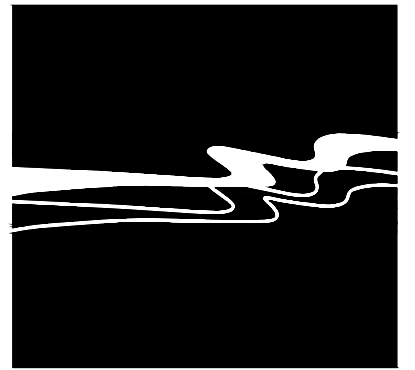
REFERENCE NOTES:

WELL ABANDONMENT NOTES	
201	BRMWC WELLS TO BE ABANDONED PER TECHNICAL SPECIFICATIONS SECTION 01 35 00.
202	DISCONNECT POWER FACILITIES AT ALL LOCATIONS AND REMOVE ALL ELECTRICAL PANELS, CONDUITS, AND CABLES.
203	DEMOLISH AND REMOVE ALL BUILDINGS, STRUCTURES, CONCRETE, FENCE POSTS, AND FENCING.
204	DISCONNECT AND REMOVE ALL EXISTING SIGNAL INFRASTRUCTURE AND CONDUIT.
205	CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DEMOLISHED ITEMS. ALL DEMOLISHED/REMOVED ITEMS TO BE HAULED OFF-SITE AND DISPOSED OF AT THE APPROPRIATE FACILITY.
206	DISCONNECT, REMOVE, AND DISPOSE OF ALL ABOVEGROUND PIPING.
207	ABANDON UNDERGROUND PIPE SECTION PER TECHNICAL SPECIFICATION 02 42 00.



1 WELL SITE 1 ABANDONMENT PHOTOS AND DETAIL

Scale: NTS



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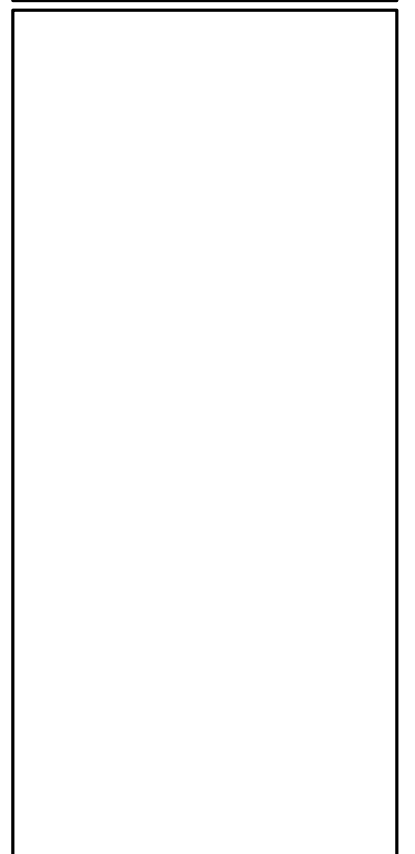
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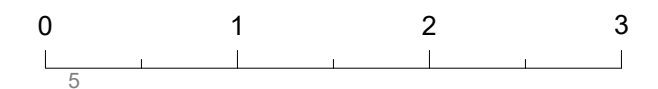
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**SUNNYSLOPE COUNTY WATER DISTRICT
WATER SYSTEM CONSOLIDATION PROJECT
WELL 1 ABANDONMENT DETAILS**

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24

**DRAWING NO.
C-2.2**



REFERENCE NOTES:

WELL ABANDONMENT NOTES	
201	BRMWC WELLS TO BE ABANDONED PER TECHNICAL SPECIFICATIONS SECTION 01 35 00.
202	DISCONNECT POWER FACILITIES AT ALL LOCATIONS AND REMOVE ALL ELECTRICAL PANELS, CONDUITS, AND CABLES.
203	DEMOLISH AND REMOVE ALL BUILDINGS, STRUCTURES, CONCRETE, FENCE POSTS, AND FENCING.
204	DISCONNECT AND REMOVE ALL EXISTING SIGNAL INFRASTRUCTURE AND CONDUIT.
205	CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL DEMOLISHED ITEMS. ALL DEMOLISHED/REMOVED ITEMS TO BE HAULED OFF-SITE AND DISPOSED OF AT THE APPROPRIATE FACILITY.
206	DISCONNECT, REMOVE, AND DISPOSE OF ALL ABOVEGROUND PIPING.
207	ABANDON UNDERGROUND PIPE SECTION PER TECHNICAL SPECIFICATION 02 42 00.
208	DISCONNECT AND REMOVE ALL TREATMENT EQUIPMENT AND TANKS
209	ABANDON WATER LINE FROM BRMWC WELL SITE 2 TO THE DISTRIBUTION SYSTEM PER DETAIL 6, SHEET C-2.1.
210	EXISTING PG&E POWER POLE. PROTECT-IN-PLACE.



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2 WELL SITE 2 ABANDONMENT DETAIL

Scale: NTS

SUNNYSLOPE COUNTY WATER DISTRICT
WATER SYSTEM CONSOLIDATION PROJECT
WELL 2 ABANDONMENT DETAILS

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24

DRAWING NO.
C-2.3

RESIDENTIAL
CLOW 865 CAST IRON DUCTILE IRON (1-1/2" x 2-1/2" OUTLET)

COMMERCIAL / INDUSTRIAL
CLOW 865 CAST IRON DUCTILE IRON (2-4 1/2" x 2-1/2" OUTLET)

NO PLANTER AREA
ATTACHED SIDEWALK FROM CURB

RESIDENTIAL - COMMERCIAL - INDUSTRIAL FIRE HYDRANT

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-1-1**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 2

STANDARD LOCATION OF FIRE HYDRANT

NOTES:
1. ALL FIRE HYDRANT LOCATIONS SHALL BE APPROVED BY THE DISTRICT ENGINEER PRIOR TO CONSTRUCTION. MINIMUM DISTANCE OF HYDRANT FROM DRIVEWAY IS 10 FEET. HYDRANT SPACING IS TO FOLLOW THE INTERNATIONAL FIRE CODE AND NOT TO EXCEED 500'.
2. INSTALL FIRE HYDRANT CLOW 860 OUTLET REQUIREMENTS: FOR RESIDENTIAL AND CLOW 865 FOR COMMERCIAL AND INDUSTRIAL. APPROVED SCALE:
RESIDENTIAL CLOW VALVE CO. 860 2-2 1/2 INCH OUTLET 1-4 1/2 INCH OUTLET
COMMERCIAL/INDUSTRIAL CLOW VALVE CO. 865 1-2 1/2 INCH OUTLET 2-4 1/2 INCH OUTLET
3. POSITIVE BREAK OFF VALVE ASSEMBLY SHALL BE LONG BEACH LB-400 DUCTILE IRON OR APPROVED EQUAL.
4. DUCTILE IRON FITTINGS AND COATING SHALL CONFORM WITH THE LATEST AWWA SPECIFICATIONS C153 AND SHALL BE CEMENT LINE PER AWWA STANDARD C104.
5. FIRE HYDRANT VALVE SHALL BE INSTALLED PER STANDARD PLAN NO. B-2 OR AS APPROVED BY DISTRICT ENGINEER.
6. THRUST BLOCKS SHALL CONFORM TO STANDARD W-10 AND BE CLASS 520 C 2500 PCC.
7. THE ENTIRE FIRE HYDRANT ASSEMBLY SHALL PASS HYDROSTATIC PRESSURE TESTING, LEAKAGE TEST AND BACTERIOLOGICAL TEST PER AWWA SPECIFICATION PRIOR TO ACCEPTANCE BY DISTRICT ENGINEER.
8. ALL HYDRANTS SHALL BE PAINTED WITH SAFETY YELLOW USING KELLY MOORE KEL-GUARD ENAMEL OR APPROVED EQUAL.
9. PAINT CURB WITH RED PAINT 10 FT. ON BOTH SIDES OF HYDRANT.
10. POUR A CONCRETE PAD AROUND THE HYDRANT AND AGAINST SIDEWALK, AT THE SAME ELEVATION OF THE EXISTING SIDEWALK.
11. FIRE HYDRANT BLUE PAVEMENT MARKER SHALL BE LOCATED 12 INCHES FROM CENTERLINE TOWARDS THE FIRE HYDRANT. HYDRANTS NEAR INTERSECTIONS REQUIRES MARKING ON EACH STREET.
12. WRAP THE FIRE HYDRANT BURY WITH 10 MIL POLYETHYLENE SHEET.
13. BRING THE TRACER WIRE ABOVE THE CEMENT AND WRAP IT AT THE BASE OF THE HYDRANT.

FIRE HYDRANT LOCATION AND NOTES

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-1-2**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 2 OF 2

WATER MAIN VERTICAL OFFSET

NOTES:
1. MECHANICAL JOINT FITTINGS, NUTS & BOLTS TO BE CLEAR OF CONCRETE.
2. ALL ELBOWS SHALL BE MEGA-LUG MECHANICAL JOINT FITTINGS.
3. ALL FITTINGS SHALL BE WRAPPED WITH POLYPROPYLENE 10 MIL POLYETHYLENE SHEETING.
4. STIRRUPS TO BE #4 REBAR AND ALL EXPOSED STIRRUPS SHALL BE WRAPPED IN PVC TAPE 10 MIL.
5. THRUST BLOCKS SHALL BE CLASS 520-C-2500 PCC AND ABIDE BY STD. PLAN B-10.
6. CONCRETE SHALL NOT COME IN CONTACT WITH FITTINGS OR PIPE.
7. ANY ALTERNATIVE MECHANICAL JOINT OR FLANGE FITTINGS REQUIRE REVIEW AND APPROVAL BY DISTRICT ENGINEER PRIOR TO INSTALLATION.
8. SANITARY OR STORM DRAIN SEPARATION AND JOINT LOCATION SHALL COMPLY WITH CITY AND COUNTY SPECIFICATIONS.
9. ELBOW ANGLES AND PIPE LENGTHS TO BE DETERMINED AS NECESSARY AND APPROVED BY DISTRICT ENGINEER.
10. ALL JOINTS AND FITTINGS ARE TO BE MEGA-LUG MECHANICAL JOINTS AND ALL PIPING TO BE C-900 PVC.

WATER MAIN VERTICAL OFFSET

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-11**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 1

AIR AND VACUUM COMBINATION RELEASE VALVE ASSEMBLY

NOTES:
1. STEEL ENCLOSURE TO BE PIPELINE PRODUCTS VC-330 #10 GAUGE STEEL, 30" DIA. X 36" TALL ENCLOSURE, BOLTED TO 3/4" CONCRETE PAD.
2. USE 6" TAMPED SAND BEDDING UNDER THE LATERAL AND 12" TAMPED SAND COVER OVER THE LATERAL.
3. PAINT CASE AND DOOR, BOTH INSIDE AND OUTSIDE, WITH TWO (2) COATS OF RUSTOLEUM MEDIUM GREEN OR EQUAL GREEN ENAMEL OR GREEN POWDER COATED.
4. INSTALL INSULATED STRANDED #10 GAGE TRACER WIRE ON TOP OF POLYETHYLENE TUBING, CONNECTED TO THE TRACER WIRE ON THE WATER MAIN AND WRAPPED AROUND THE AIR-VAC BASE.
5. AIR VAC TO BE LOCATED AT THE HIGHEST POINT IN THE LINE AND WHERE FEASIBLE AT THE PROPERTY LINE OR LOCATIONS APPROVED BY SUNNYSLOPE COUNTY WATER DISTRICT ENGINEER.
6. AIR & VACUUM RELEASE VALVE SHALL GENERALLY BE APFC NO. 143C OR APPROVED EQUAL FOR 8"-16" SERVICE MAINS. VERIFY PROPER AIR & VACUUM RELEASE VALVE SIZE WITH DISTRICT ENGINEER PRIOR TO ORDER OR INSTALL.

AIR AND VACUUM COMBINATION RELEASE VALVE ASSEMBLY

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: November 2019

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-7**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 1

1 Scale: NTS

2 Scale: NTS

3 Scale: NTS

4 Scale: NTS

WATER TEE/CROSS & VALVES

NOTES:
1. ALL GATE VALVES SHALL BE NON-RISING STEM (NRS) DOUBLE O-RING SEAL VALVES SHALL BE PER AWWA STANDARD EQUAL SIZES TO LINE PIPING. VALVES SHALL BE EPOXY COATED RESILIENT WEDGE GATE VALVES COMPLYING WITH AWWA C-603 SPECIFICATIONS. ALL VALVES MUST OPEN COUNTERCLOCKWISE ONLY.
2. CONCRETE COLLAR AND THRUST BLOCK SHALL BE CLASS 520-C-2500 PCC AND IN ACCORD WITH STD W-10.
3. VALVE BOX SHALL BE CHRISTY 98 BOX WITH GSC TRAFFIC LID.
4. VALVE BOX RISER SHALL BE 8" PVC SLEEVE AND NO MORE THAN 6" BELOW AC FINISH GRADE.
5. ALL VALVES, FITTINGS AND ANCHOR BARS SHALL BE WRAPPED WITH 10 MIL THICK POLYETHYLENE SHEET.
6. ANY VALVES LARGER THAN 12" SHALL BE BUTTERFLY VALVE MANUFACTURED PER AWWA STANDARDS.

WATER TEE/CROSS & VALVES

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2018

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-2**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 1

THRUST BLOCK BEARING AREA REQUIRED - SQUARE FEET

TYPE OF FITTING	90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE	TEE W/ PLUG	CROSS W/ PLUG	CROSS W/ PLUGS
TYPICAL INSTALLATION	[Diagram]	[Diagram]	[Diagram]	[Diagram]	[Diagram]	[Diagram]	[Diagram]	[Diagram]
SIZE OF PIPE	6"	6"	4"	2"	6"	6"	6"	6"
	8"	10"	6"	3"	2"	10"	10"	10"
	12"	21"	11"	6"	3"	22"	21"	21"

THRUST BLOCK SCHEDULE

NOTES:
1. JOINTS, FITTINGS AND FACES OF PLUGS TO BE KEPT CLEAR OF CONCRETE USING 10 MIL POLYETHYLENE SHEET.
2. BLOCKS MUST BE PLACED AGAINST UNDISTURBED SOIL.
3. THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS 520-C-2500 PCC.
4. STIRRUPS TO BE #4 REBAR EMBEDDED IN THRUST BLOCK TO A DEPTH EQUAL TO 3/4 OF PIPE OUTSIDE DIAMETER. STIRRUP HOOKS TO BE SHAPED 90° BEND WITH LENGTH EQUIVALENT TO 1/2 PIPE O.D.
5. THRUST BLOCK AREA IS BASED ON TEST PRESSURE OF 150 PSI AND A HORIZONTAL SOIL BEARING STRENGTH OF 1500 PSI.
6. EXPOSED STIRRUPS SHALL BE WRAPPED IN PVC TAPE 10 MIL.
7. MECHANICAL JOINT RESTRAINTS ARE ALLOWED WITH THE APPROVAL OF THE DISTRICT ENGINEER.

THRUST BLOCK SCHEDULE

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **B-10-1**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 2

5 Scale: NTS

6 Scale: NTS

UPWARD THRUST BLOCK SCHEDULES

NOTES:
1. DIMENSIONS L, W, H, AND G ARE IN FEET.
2. THRUST BLOCK DIMENSIONS BASED ON 150 PSI TEST PRESSURE AND CONCRETE OF 150 PCF.
3. EXPOSED STIRRUPS SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE SHEET.
4. THRUST BLOCKS SHALL BE CLASS 520-C-2500 PCC.
5. FLANGES, NUTS & BOLTS SHALL BE CLEAR OF CONCRETE.
6. MECHANICAL JOINT RESTRAINTS ARE ALLOWED WITH THE APPROVAL OF THE DISTRICT ENGINEER.
7. STIRRUPS TO BE AS SHOWN IN TABLE ABOVE.

THRUST BLOCK DIMENSION - UPWARD THRUST

PIPE SIZE	11 1/4" BEND				22 1/2" BEND				45° BEND				
	L	W	H	G	L	W	H	G	L	W	H	G	
6"	3.0	2.0	2.0	1.0	5	4.0	2.0	3.0	1.0	5	3.0	3.0	1.0
8"	3.5	2.5	2.0	1.0	5	4.5	3.0	3.0	1.0	5	3.0	4.0	1.5
12"	4.0	3.5	3.0	1.5	5	5.0	4.0	3.5	2.0	5	7.0	4.0	2.5

UPWARD THRUST BLOCK SCHEDULES

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-10-2**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 2 OF 2

7 Scale: NTS

8" AND SMALLER BLOW OFF ASSEMBLY

NOTES:
1. WRAP THE M.J. CAP AND 2" BRASS ELBOW IN 10 MIL MINIMUM POLYETHYLENE SHEET
2. THRUST BLOCK SHALL BE CLASS 520-C-2500 PCC IN ACCORDANCE WITH STD. PLAN B-10.
3. ALL FITTINGS AND PIPE AFTER THE M.J. CAP SHALL BE ONLY BRASS.
4. RUN A #10 GAGE STRANDED TRACER WIRE FROM THE PIPE AND WRAP AROUND CURB STOP.
5. INSTALL CHRISTY #16 BOX WITH CAST IRON TRAFFIC LID AND 10"x12" CONCRETE COLLAR.
6. BACKFILL WITH SAND FOR 6" BEDDING UNDER PIPE, 12" COVER OVER PIPE, AND 12" AROUND TH 2" BRASS PIPE UP TO BOX.

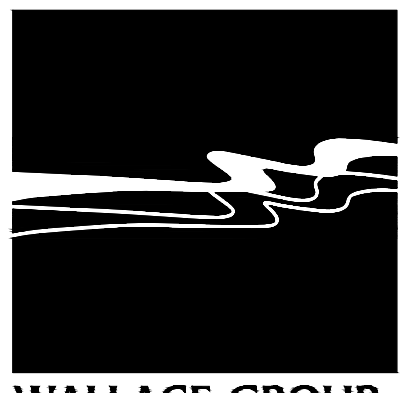
8" AND SMALLER BLOW OFF ASSEMBLY

DESIGNED BY: LOUIE C. GUEVARA
CHECKED BY: ROB HILLEBRECHT
DATE: APRIL 2015

APPROVED: [Signature]
GENERAL MANAGER DONALD ROSENTHAL

STANDARD PLAN **W-9-1**
SUNNYSLOPE COUNTY WATER DISTRICT
SHEET 1 OF 2

8 Scale: NTS



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SUNNYSLOPE COUNTY WATER DISTRICT
WATER SYSTEM CONSOLIDATION PROJECT
STANDARD DRAWINGS AND DETAILS

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24
DRAWING NO. C-2.4
16 OF 19 SHEETS



SWPPP PERMIT:
STATE OF CALIFORNIA PERMIT WDD#: TBD
RISK LEVEL 2

RESPONSIBLE PARTY FOR IMPLEMENTING AND MONITORING EROSION AND SEDIMENT CONTROL PLAN AND SWPPP:

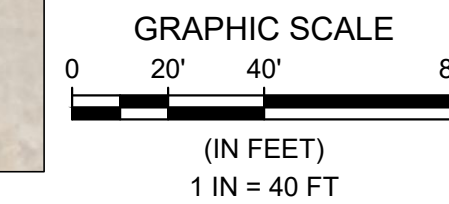
LEGALLY RESPONSIBLE PERSON (LRP):
DREW LANDER, PE
SUNNYSLOPE COUNTY WATER DISTRICT
EMAIL: draw@sunnyslopewater.org
PHONE: (831) 637-4670

POC: RONALD (GLENN) RIDER, QSD/P #26736
PHONE: (805) 544-4011
EMAIL: GlennR@wallacegroup.us

NAME: TIM PETERSON, WALLACE GROUP
TRAINED QSP DELEGATE
LOCAL PHONE: (805) 544-4011

REFERENCE NOTES

SYMBOL	TEMPORARY EROSION CONTROL
101	SILT FENCING PER CALTRANS BMP T-51 (SHEET C-2.6).
102	TEMPORARY DRAINAGE INLET PROTECT TYPE 3B PER CALTRANS BMP SC-10 (SHEET C-2.7) AND T62 (SHEET C-2.8).
103	TEMPORARY CONSTRUCTION ENTRANCE PER CALTRANS BMP TC-1 (SHEET C-2.7) AND T58 (SHEET C-2.8). EXACT LOCATION TBD IN THE FIELD.
104	APPROX. TEMPORARY CONSTRUCTION STAGING AREA. LARGE ENOUGH TO CONTAIN ALL EQUIPMENT, TRAILER, STORAGE, HAZARDOUS MATERIALS, WASTE, PARKING, AND STOCKPILES, PER BMPs ON SHEETS C-2.6 AND C-2.7. LOCATION TBD IN THE FIELD.
105	EXISTING TREES TO REMAIN AND BE PROTECTED IN PLACE.
106	HYDRO-SEED ALL DISTURBED SURFACES WITH APPROPRIATE SEED MIXTURE. SEE CONSTRUCTION NOTES, THIS SHEET, FOR MORE HYDRO-SEED INFORMATION.
107	PRESERVATION OF EXISTING VEGETATION IN ACCORDANCE WITH CALTRANS BMP SS-2 (SHEET C-2.7).
108	CONCRETE WASHOUT FACILITY IN ACCORDANCE WITH CALTRANS BMP WM-8 (SHEET C-2.7) AND T59 (SHEET C-2.6). LOCATION TBD IN THE FIELD.
109	NEW 8" PVC WATER LINE. REFER TO DETAILS 1 AND 2 (SHEET C-2.0) FOR TRENCHING INFORMATION.
110	EXISTING WELL FACILITIES TO BE DEMOLISHED AND REMOVED DURING CONSTRUCTION OF NEW WATER LINE PER SHEETS C-2.2 AND C-2.3.
111	INSTALL TEMPORARY FIBER ROLLS AROUND PERIMETER OF SOIL STOCKPILES THAT ARE NOT REMOVED BY END OF DAY IN ACCORDANCE WITH CALTRANS BMP T56 (SHEET C-2.6).



SCALE: 1" = 40'

1 CONSTRUCTION STAGING AREA

PROJECT SCOPE

1. INSTALLATION OF 4,400 LF OF 8" PVC WATER MAIN IN JOHN SMITH RD
2. ABANDONMENT AND DEMOLITION OF EXISTING WELL FACILITIES
3. CONNECTION OF WATER MAIN TO EXISTING WATER DISTRIBUTION FACILITIES IN FAIRVIEW ROAD AND HEATHERWOOD DRIVE

DISTURBED AREA

4,357 LF OF PIPE X 10 FT WIDE = 43,570 SF
 15 SF PER HYDRANT X 6 HYDRANTS = 90 SF
 15 SF PER AIR VALVE ASSEMBLY X 3 ASSEMBLIES = 45 SF
 STOCKPILE/STAGING AREA AND WELL ABANDONMENT AREAS = 30,300 SF
 TOTAL DISTURBED AREA = 74,005 SF (1.70 AC)

EROSION & SEDIMENTATION CONTROL NOTES

PRE-CONSTRUCTION

1. THE PROJECT QSP MUST ATTEND THE PRECONSTRUCTION MEETING. THE PROJECT SWPPP MUST BE ON THE SITE AND THE EROSION CONTROL SITE PLAN SHALL BE REVIEWED AT THIS MEETING.
2. PRIOR TO ANY SITE WORK, INSTALL THE CONSTRUCTION SITE-RESOURCE PROTECTION FENCING AS SHOWN ON THE EROSION CONTROL PLAN AND ENSURE EROSION AND SEDIMENTATION CONTROL MATERIALS ARE ON SITE AND READY FOR INSTALLATION.
3. INSTALL ORANGE PLASTIC-WEB FENCING ALONG THE CONSTRUCTION SITE BOUNDARY AND IN AREAS DESIGNATED ON PLAN PRIOR TO ANY SITE DISTURBANCE. NO CONSTRUCTION UNDER THIS PERMIT IS TO OCCUR OUTSIDE OF THE SITE BOUNDARY.

DURING CONSTRUCTION

1. THE PROJECT SITE SHALL BE ACCESSED ONLY VIA THE PROJECT ENTRANCE OFF OF THE MAIN PAVED PUBLIC ROAD. CONTRACTOR SHALL PREVENT MULTIPLE CONSTRUCTION ACCESS POINTS DIRECTING ACCESS TO A SINGLE POINT THROUGH THE USE OF FENCING OR OTHER OBSTACLES.
2. CONSTRUCTION STAGING AREAS SHALL BE WITHIN THE SITE BOUNDARY, AND IMPLEMENTED PER PERMITTED EROSION CONTROL PLAN. THE CONTRACTOR CAN CHANGE THE LOCATION AFTER REVIEW AND APPROVAL WITH THE QSP TO ENSURE THE NEW LOCATION COMPLIES WITH ALL COUNTY AND STATE (MUST BE 100' FROM SENSITIVE RESOURCES AND DRAINAGE WATER COURSES).
3. ALL PORTABLE TOILETS MUST BE LOCATED MORE THAN 50' FROM ANY STORM DRAIN INLET OR DRAINAGE.
4. STREET SWEEPING SHALL BE PERFORMED ON PUBLIC RIGHTS OF WAY ADJACENT TO THE PROJECT SITE.

SLOPE PROTECTION:

5. PROTECT ALL GRADED CUT AND FILL SLOPES- TEMPORARILY UNTIL FINAL CONDITION

- A. TRACK WALK UP AND DOWN SLOPES.
- B. INSTALL TEMP. FIBER ROLLS PER REQUIRED INTERVALS AND SPEC.

6. TEMPORARY FIBER ROLL SLOPE PLACEMENT- SEE BMP DETAIL ON SHEET C-2.6.
 - 1:1 slopes = 10 feet apart
 - 2:1 slopes = 20 feet apart
 - 3:1 slopes = 30 feet apart
 - 4:1 slopes = 40 feet apart
7. STABILIZE ALL GRADED SLOPES FOR INACTIVITY AFTER 14 DAYS.
8. VEGETATE SLOPES BY EITHER:
 - a. HYDROSEED TO LOCAL AGENCY SPECS AND PROVIDE TEMPORARY IRRIGATION UNTIL ESTABLISHED; OR
 - b. DRY SEED AND COVER WITH WEED FREE STRAW, TRACKED UP AND DOWN SLOPE TO TACK INTO THE SOIL (USING TRACKED CONSTRUCTION EQUIPMENT AND WATER PERIODICALLY; OR
 - c. PLACE JUTE NETTING OR EROSION CONTROL BLANKETS ON ALL GRADED SLOPES THAT DO NOT HAVE ESTABLISHED VEGETATION BY SEPTEMBER 1.

PREP FOR PERMIT SIGN OFF

1. IMPLEMENT HYDROSEEDING (USE LOCAL AGENCY EROSION CONTROL MIX EXCEPT BIO SENSITIVE AREAS NEED APPROVAL FIRST) TO ACHIEVE THE REQUIRED FINAL STABILIZATION OF ALL PROJECT-DISTURBED AREAS (70% VEGETATIVE COVER REQUIRED); COORDINATE WITH QSP-ON WHAT IS APPROVABLE TERMINATION PROGRESS. PHOTO PROOF OF VEG. STABILIZATION REQUIRED BY WATER BOARD.
2. CONTACT SITE QSD AND QSP TO REVIEW STABILIZATION PROGRESS AND TO ASSESS IF THE SITE IS READY FOR DOCUMENTATION EXHIBITS REQUIRED FOR THE SWPPP NOTICE OF TERMINATION (NOT).
3. AT FINAL COMPLETION AFTER DISTURBED AREAS ARE STABILIZED, REMOVE ALL TEMPORARY BMP'S (FIBER ROLLS, DI INLET PROTECTIONS, SILT FENCE, ETC.)
4. CALL DESIGN CIVIL ENGINEER TO REVIEW INSTALLATION OF ALL PERMANENT DRAINAGE FEATURES IN ACCORDANCE WITH THE PROJECT SWCP, OR DRAINAGE PLAN, AS REQUIRED FOR LOCAL AGENCY SIGN OFF.



2 PROJECT TRENCHING MAP

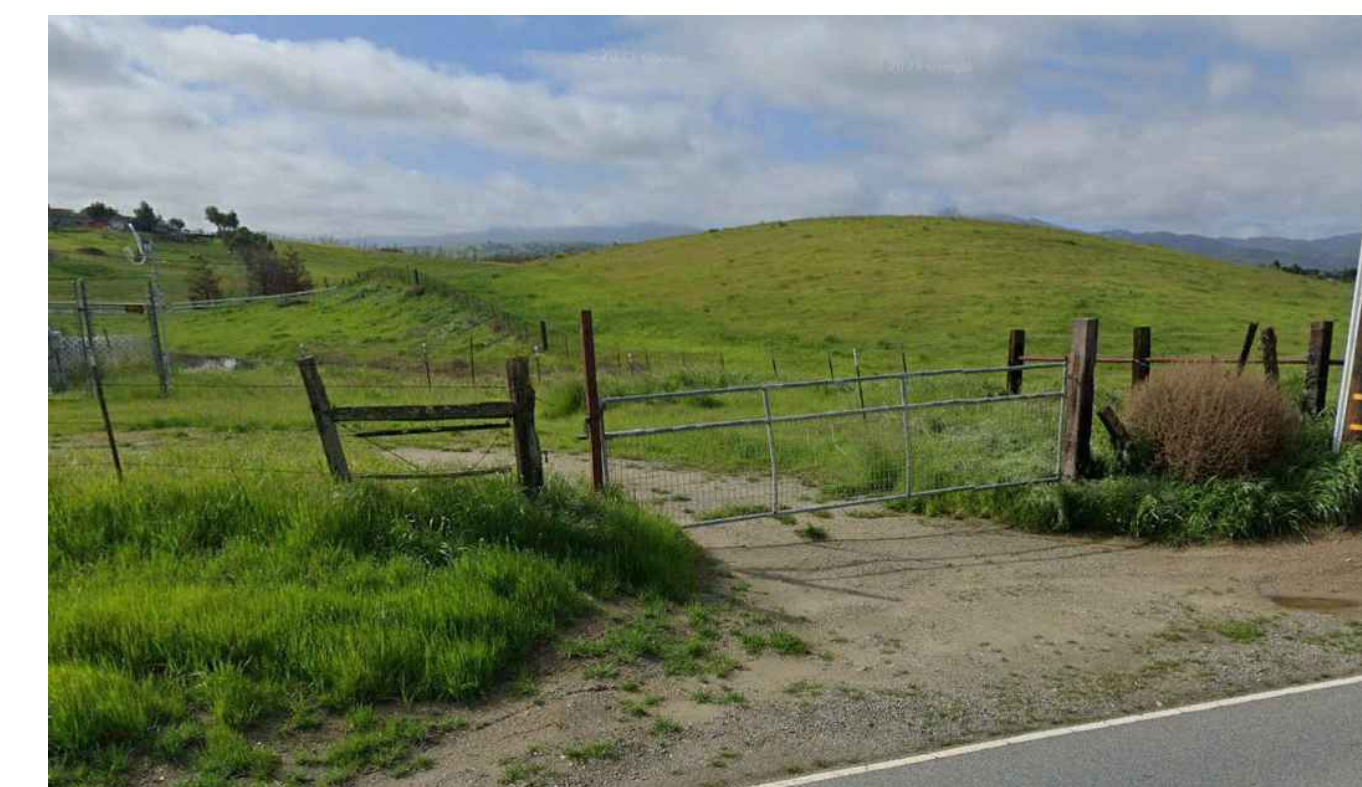
DUST CONTROL NOTES

DURING CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PARTICULATE (DUST) CONTROL MEASURES:

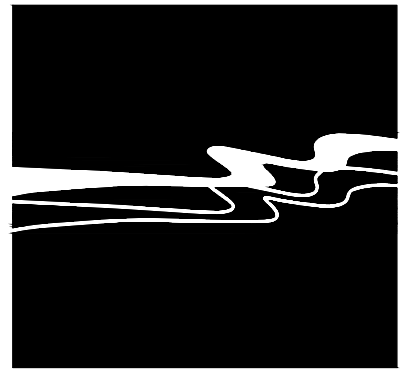
1. REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE;
2. USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST LEAVING THE SITE. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH. RECLAIMED (NON-POTABLE) WATER SHOULD BE USED WHENEVER POSSIBLE.
3. ALL DIRT STOCK-PILE AREAS SHOULD BE SPRAYED DAILY, AS NEEDED.
4. PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT RE-VEGETATION AND LANDSCAPE PLANS SHOULD BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES.
5. EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES GREATER THAN ONE MONTH AFTER INITIAL GRADING SHOULD BE SOWN WITH A FAST-GERMINATING NATIVE GRASS SEED UNTIL VEGETATION IS ESTABLISHED.
6. ALL DISTURBED SOIL AREAS NOT SUBJECT TO RE-VEGETATION SHOULD BE STABILIZED USING APPROVED CHEMICAL SOIL

BINDERS, JUTE NETTING, OR OTHER METHODS APPROVED BY THE APCD.

7. ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC., SHOULD BE PAVED AS SOON AS POSSIBLE. IN ADDITION, BUILDING PADS SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
8. VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15 MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
9. THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE FUGITIVE DUST EMISSIONS AND ENHANCE THE IMPLEMENTATION OF THE MEASURES AS NECESSARY TO MINIMIZE DUST COMPLAINTS, REDUCE VISIBLE EMISSIONS BELOW 20% OPACITY, AND TO PREVENT TRANSPORT OF DUST OFFSITE.



3 EXISTING BRMWC GATE



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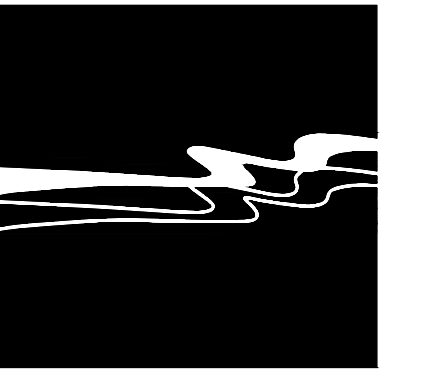
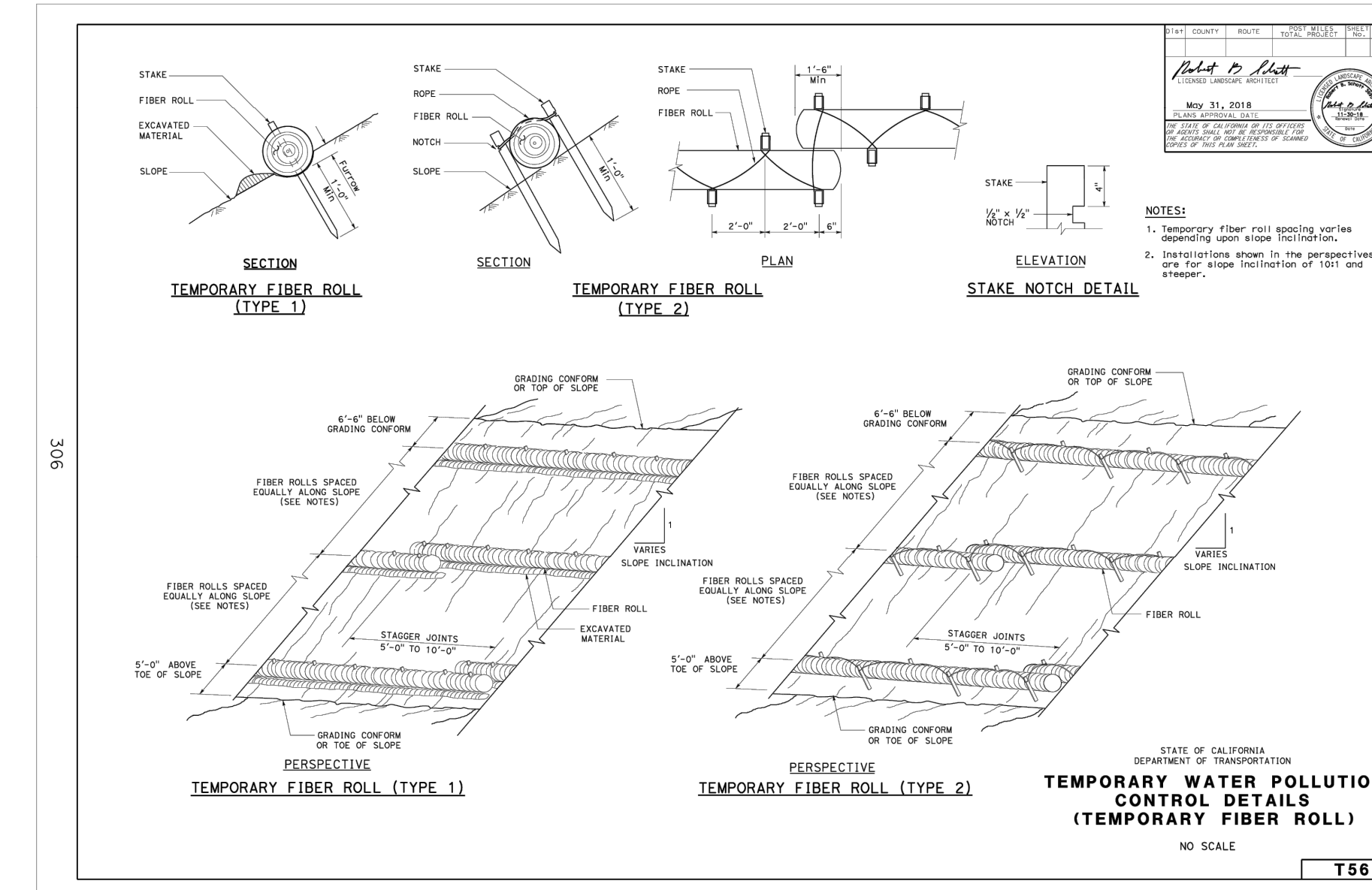
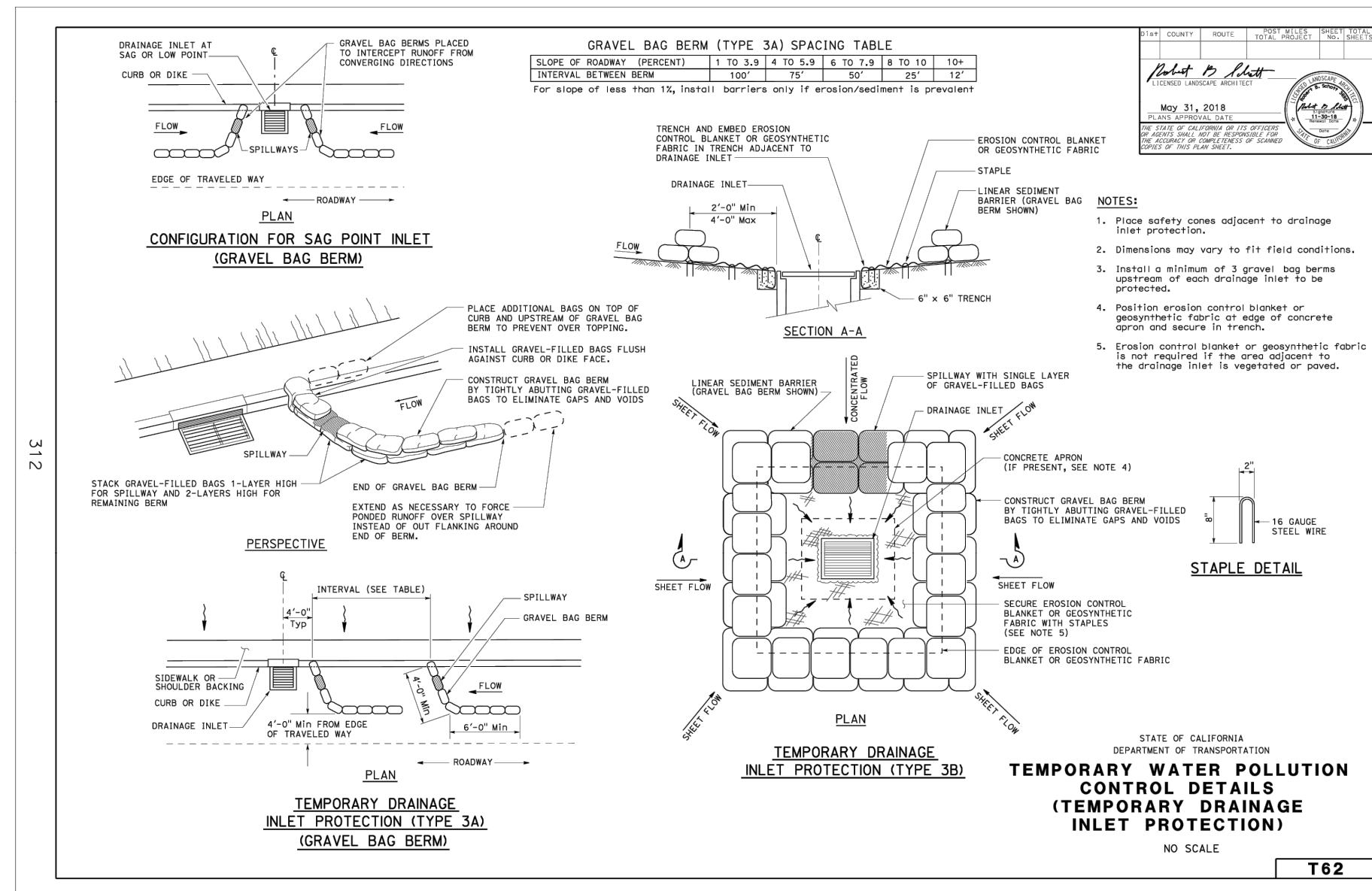
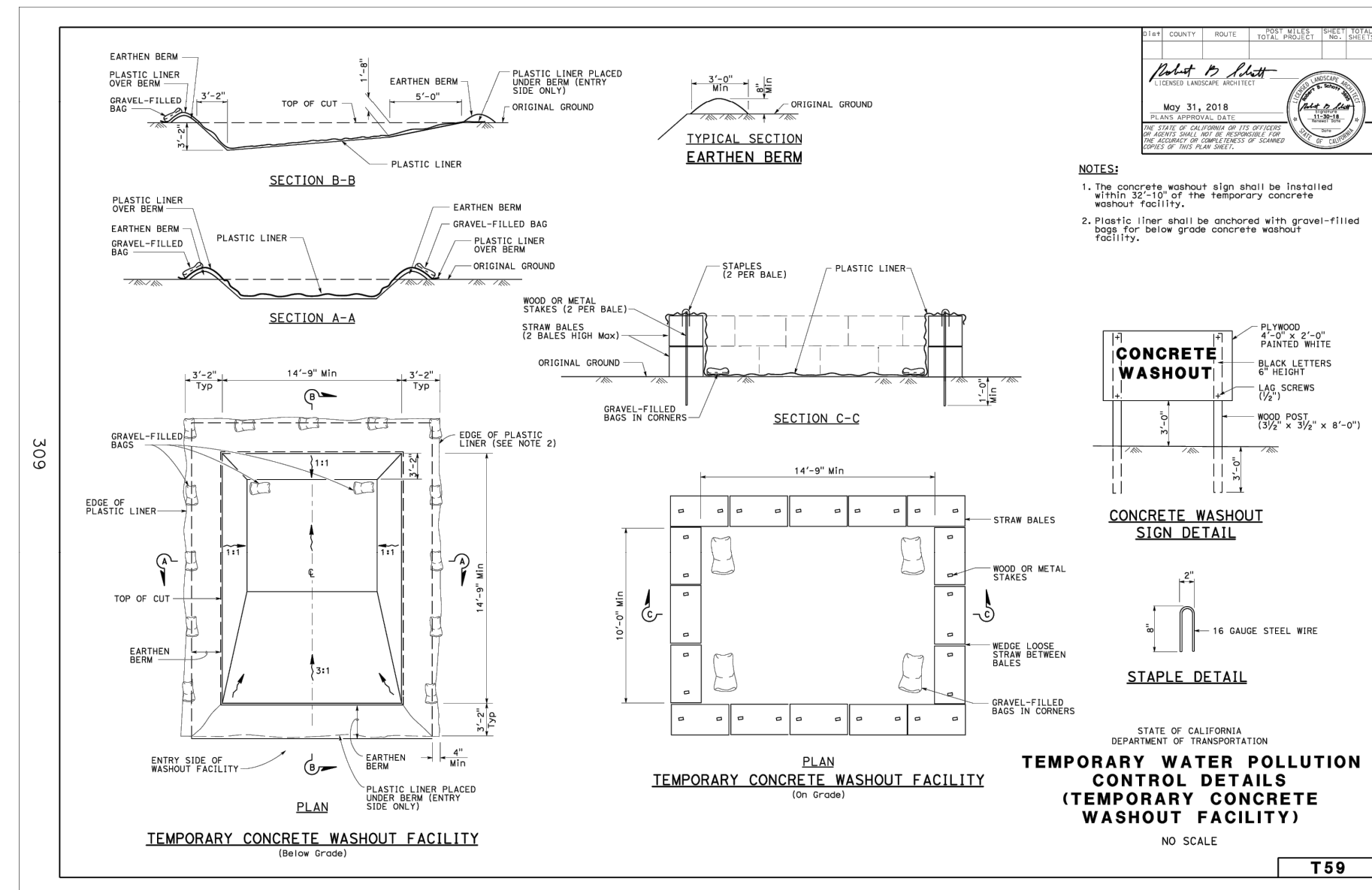
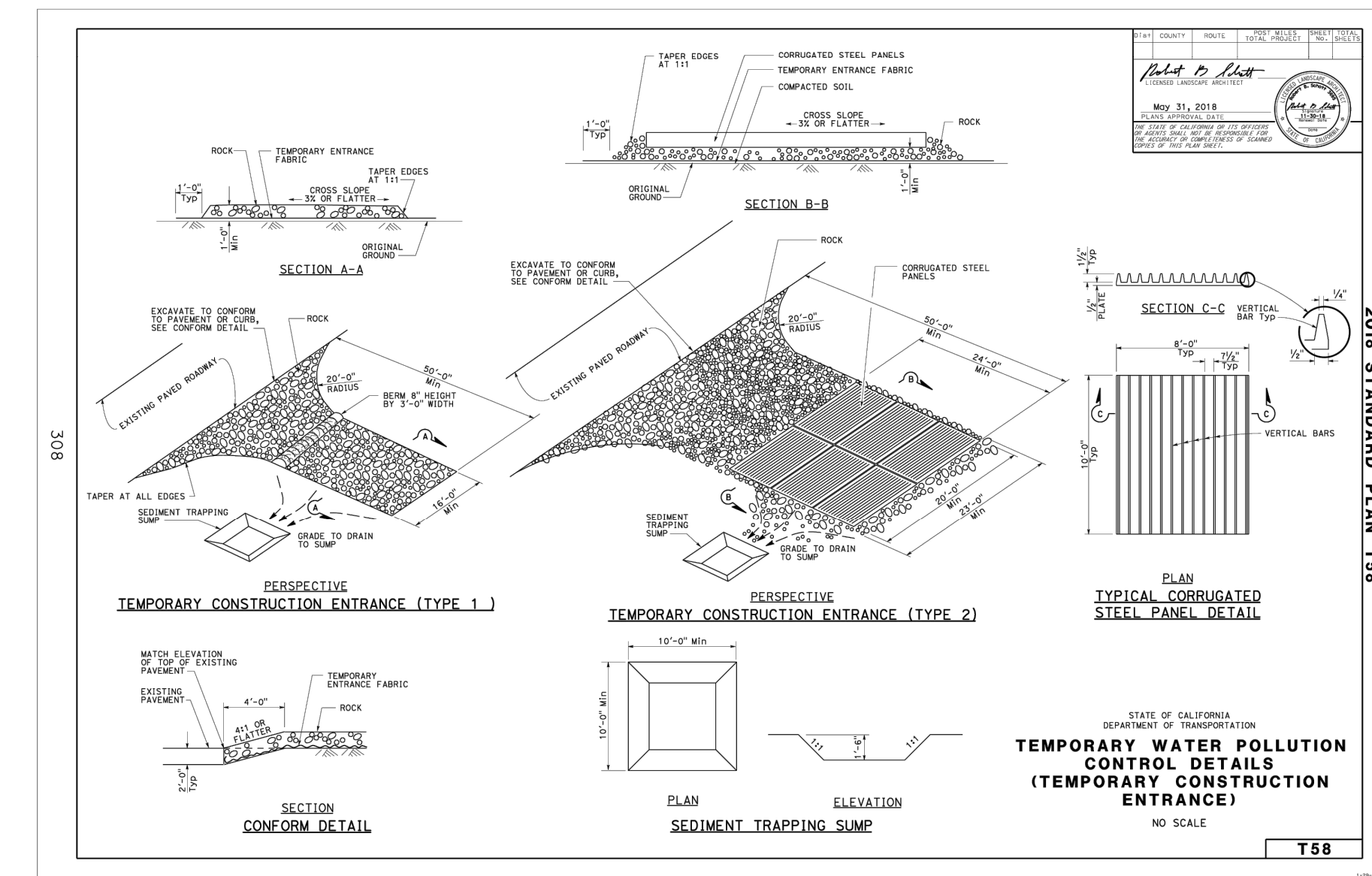
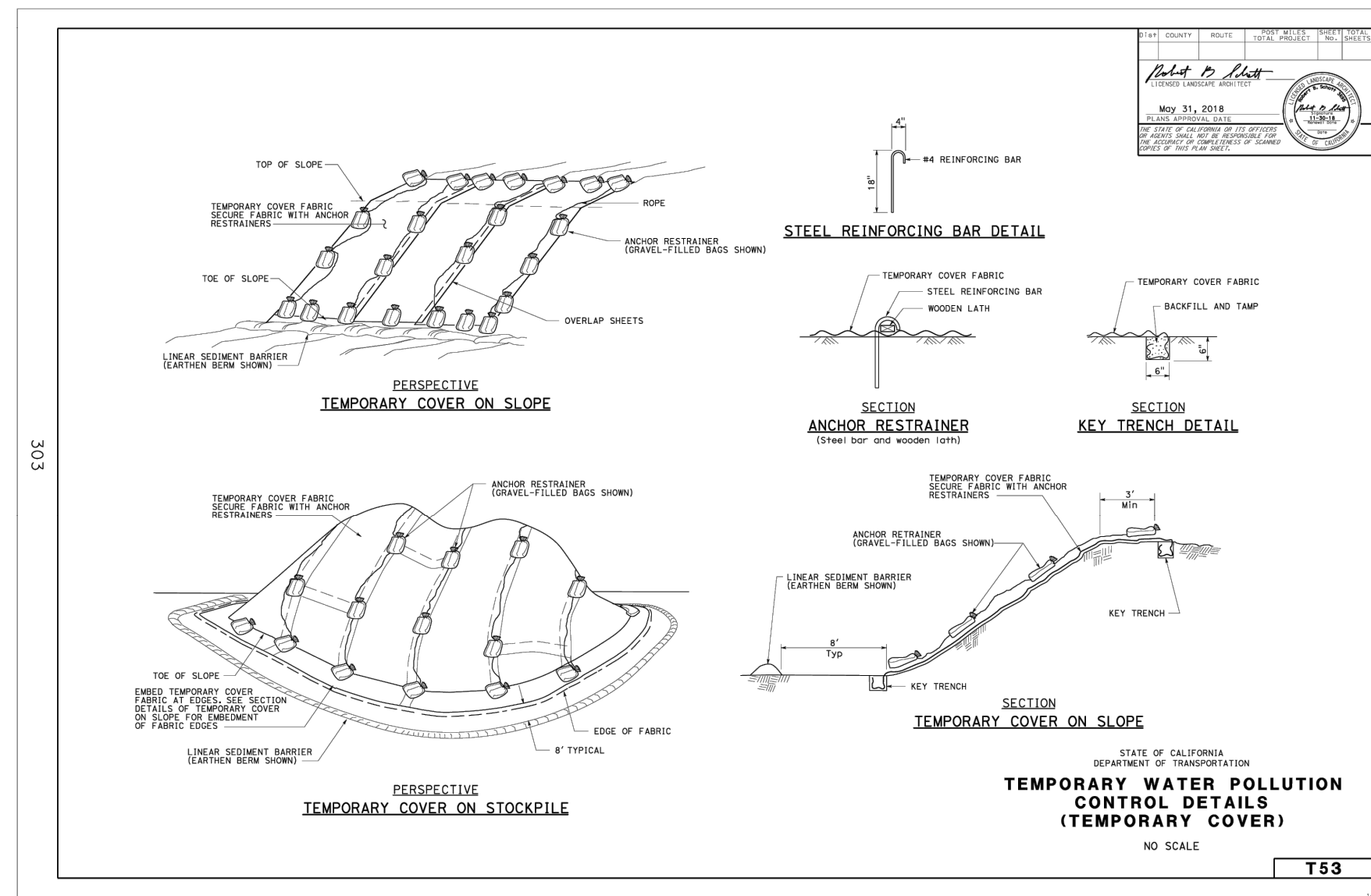
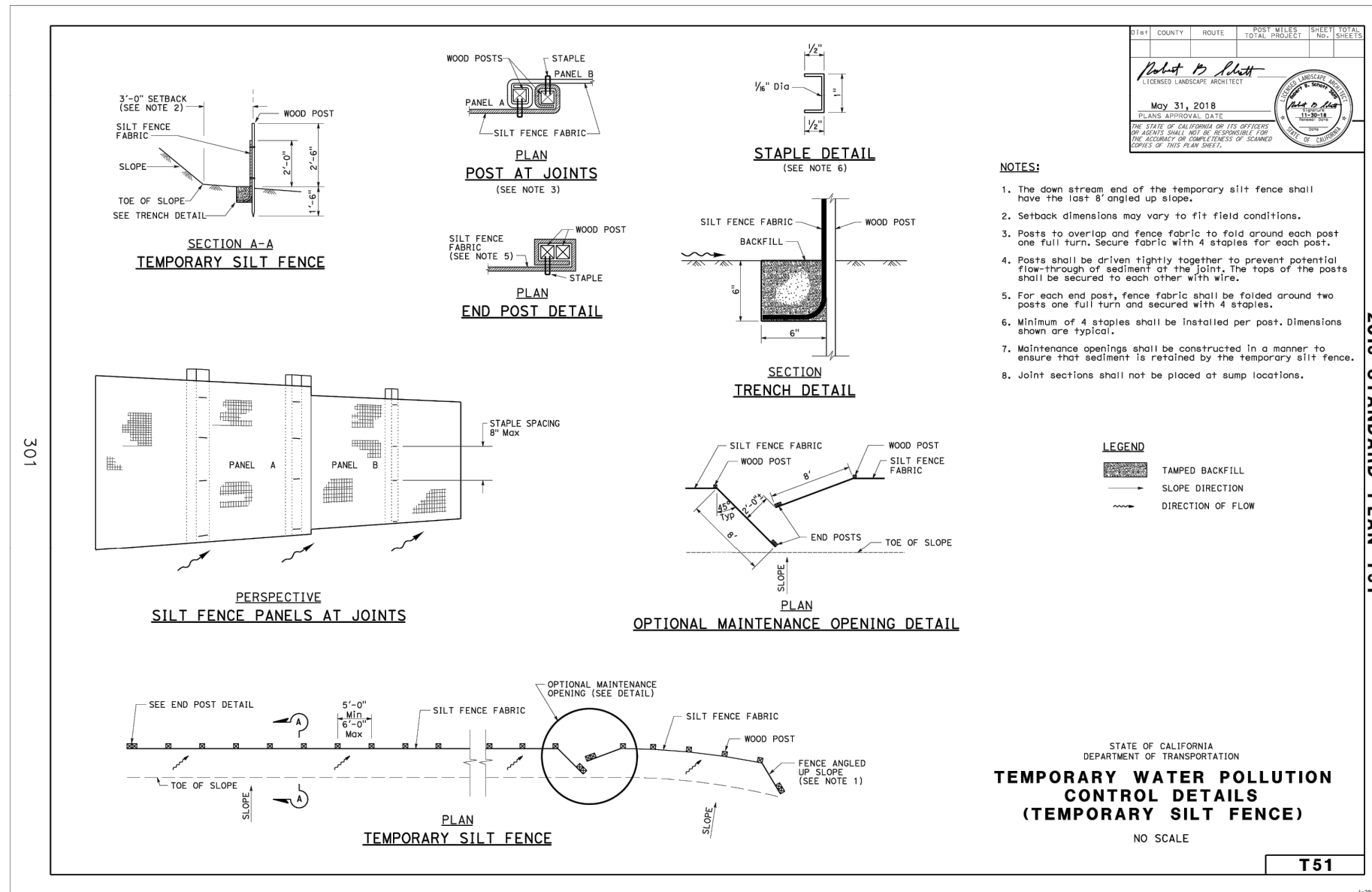
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SUNNYSLOPE COUNTY WATER DISTRICT
 WATER SYSTEM CONSOLIDATION PROJECT
 EROSION CONTROL PLAN

JOB #: 0557-0005
 DESIGNERS: ZCM
 DRAWN BY: ONW
 DATE: 11/13/24

DRAWING NO.
C-2.5

17 OF 19 SHEETS



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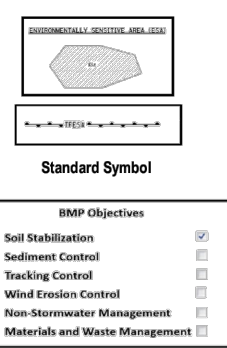
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SUNNYSLOPE COUNTY WATER DISTRICT
 WATER SYSTEM CONSOLIDATION PROJECT
 EROSION CONTROL PLAN- DETAILS

JOB #: 0557-0005
 DESIGNERS: ZCM
 DRAWN BY: ONW
 DATE: 11/13/24

DRAWING NO.
 C-2.6
 18 OF 19 SHEETS

Preservation of Existing Vegetation **SS-2**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Preservation of existing vegetation is the identification and protection of desirable vegetation that provides erosion and sediment control benefits.

Appropriate Applications
Preserve existing vegetation at areas on a site where no construction activity is planned or will occur at a later date. This BMP is very applicable for multi-year or multiple location projects, where existing vegetation can be preserved until the area becomes active.

On a year-round basis, temporary fencing shall be provided prior to the commencement of clearing and grubbing operations or other soil-disturbing activities in areas.

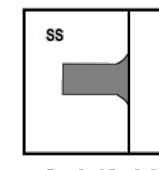
Clearing and grubbing operations should be staged to preserve existing vegetation.

Areas where natural vegetation exists and is designated for preservation. Such areas often include steep slopes, watercourse, and building sites in wooded areas.

Areas where local, state, and federal government require preservation, such as vernal pools, wetlands, meadows, certain oak trees, etc.

Clearly marking and having a buffer area around these unique areas during construction will help to preserve these areas as well as take advantage of natural erosion prevention and sediment trapping.

Street Sweeping **SC-7**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
BMPs to remove tracked sediment to prevent the sediment from entering a storm drain or receiving waters.

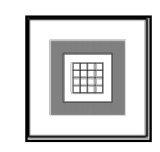
Appropriate Applications
These practices are implemented anywhere sediment is tracked from the project site onto public or private paved roads, typically at jobsite entrances and exits.

Limitations
Sweeping and vacuuming may not be effective when soil is wet or muddy.

Standards and Specifications
General Requirements

- Sweep by hand or mechanical methods, such as vacuuming. Kick brooms or sweeper attachments may not be used.
- At least one street sweeper in good working order must be at the job site at all times when street sweeping work is required.
- Use one of the following types of street sweepers:
 - Mechanical sweeper followed by a vacuum-assisted sweeper
 - Vacuum-assisted, dry, waterless, sweeper
 - Regenerative-air sweeper

Temporary Drainage Inlet Protection **SC-10**



Standard Symbol

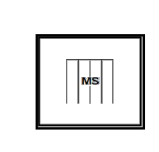
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Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Temporary drainage inlet protection consists of devices used at storm drain inlets that detain and/or filter sediment-laden runoff prior to discharge into storm drainage systems. This is achieved by allowing sediment to settle and/or filtering sediment upstream of a linear sediment barrier.

Appropriate Applications
Where ponding will not encroach into highway traffic.
Where sediment laden surface runoff may enter an inlet.
Where disturbed drainage areas have not yet been permanently stabilized.
Where the drainage area is 1 ac or less.
Used year-round.

Limitations
Requires an adequate area for water to pond without encroaching upon traveled way and should not present an obstacle to incoming traffic.
May require other methods of temporary protection to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.
Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in conjunction with temporary drainage inlet protection.

Material Delivery and Storage **WM-1**



Standard Symbol

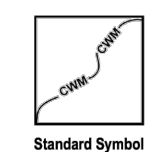
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Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Procedures and practices for the proper handling and storage of materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications
These procedures are implemented at all construction sites with delivery and storage of the following:

- Hazardous chemicals such as:
 - Acids
 - Lime
 - Glaes
 - Adhesives
 - Paints
 - Solvents
 - Curing compounds
- Fertilizers
- Delegens
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

Concrete Waste Management **WM-8**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
These are procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain system or watercourses.

Appropriate Applications
Concrete waste management procedures and practices are implemented on construction projects where concrete is used as a construction material or where concrete dust and debris result from demolition activities. Where slurry containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from excavating, cutting, grinding, growing, and hydro-concrete demolition.

Where concrete trucks and other concrete-coated equipment are washed on site, when approved by the Resident Engineer (RE). See also NS-8, "Vehicle and Equipment Cleaning."

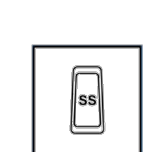
Where mortar-mixing stations exist.

Limitations
None identified.

Standards and Specifications
Education
Educate employees, subcontractors, and suppliers on the concrete waste management techniques described herein.

The WPC Manager shall oversee and enforce concrete waste management procedures.

Sanitary and Septic Waste Management **WM-9**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

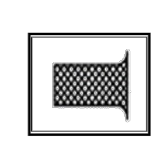
Definition and Purpose
Procedures and practices to minimize or eliminate the discharge of construction site sanitary and septic waste materials to the storm drain system or to receiving waters.

Appropriate Applications
Sanitary/septic waste management practices are implemented on all construction sites that use temporary or portable sanitary and septic waste systems.

Limitations
None identified.

Standards and Specifications
Education
Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.
Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary/septic wastes.
Instruct employees, subcontractors, and suppliers in identification of sanitary/septic waste.
Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and taglines).
Establish a continuing education program to indoctrinate new employees.

Temporary Construction Entrance/Exit **TC-1**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

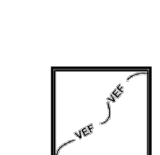
Definition and Purpose
A temporary construction entrance/exit is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Appropriate Applications
Where dirt or mud can be tracked onto public roads.
Adjacent to water bodies.
Where poor soils are encountered.
Where dust is a problem during dry weather conditions.

Limitations
Site conditions will dictate design and need.
Limit the points of entrance/exit to the construction site.
Limit speed of vehicles to control dust.

Standards and Specifications
General Requirements
Temporary construction entrance/exit must comply with Standard Specification Section 13-7.03 Temporary Construction Roadways and Entrances.

Vehicle and Equipment Fueling **NS-9**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

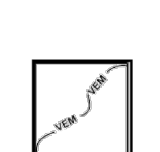
Definition and Purpose
Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of fuel spills and leaks into storm drain systems or to receiving waters.

Appropriate Applications
These procedures are applied on all construction sites where vehicle and equipment fueling takes place.

Limitations
This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).
Onsite vehicle and equipment fueling should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications
When fueling must occur onsite, the contractor shall select and designate an area to be used, subject to approval of the RE.
Dedicated fueling areas shall be protected from stormwater run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas. Protect fueling areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Vehicle and Equipment Maintenance **NS-10**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

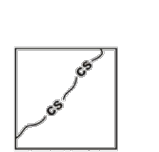
Definition and Purpose
Procedures and practices to minimize or eliminate the discharge of pollutants to the storm drain system or to receiving waters from vehicle and equipment maintenance activities.

Appropriate Applications
These procedures apply on all construction projects where an onsite uncovered yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations
This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).
Onsite vehicle and equipment maintenance should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications
When maintenance must occur onsite, the contractor shall select and designate an area to be used, subject to approval of the RE and implement appropriate controls for the activities to be performed.
Dedicated maintenance areas shall be on level ground and protected from storm water run-on and runoff, and shall be located at least 50 ft from downstream drainage facilities and receiving waters.
Protect maintenance areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Stockpile Management **WM-3**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble aggregate base, aggregate subbase or pre-mixed aggregate, asphalt binder (so called "cold mix" asphalt) and precast treated wood.

Appropriate Applications
Implemented in all projects that stockpile soil and other materials.

Limitations
Use of plastic cover might be restricted depending on the location of the site and regulatory permits.

Standards and Specifications
Stockpiles must comply with Standard Specification 13-4.03C (1) Stockpile Management.
Protection of stockpiles is a year-round requirement.
Locate stockpiles a minimum of 50 ft. away from concentrated flows of storm water, drainage courses, and inlets.
Utilize run-on and run-off BMPs to ensure stockpile materials are protected and do not have the potential to discharge material.
Implement wind erosion control practices as appropriate on all stockpiled material. For specific information see WE-1, "Wind Erosion Control."

Spill Prevention and Control **WM-4**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

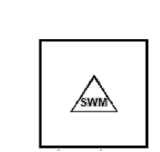
Definition and Purpose
These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents the discharge of spilled material to the drainage system or watercourses.

Appropriate Applications
This best management practice (BMP) applies to all construction projects. Spill control procedures are implemented anytime chemicals and/or hazardous substances are stored. Substances may include, but are not limited to:

- Soil stabilizers/binders
- Dust Palliatives
- Herbicides
- Growth inhibitors
- Fertilizers
- Deicing/anti-icing chemicals
- Fuels
- Lubricants
- Other petroleum distillates

To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic waste shall be contained and cleaned up immediately.

Solid Waste Management **WM-5**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
Solid waste management procedures and practices are designed to minimize or eliminate the discharge of pollutants to the drainage system or to water bodies as a result of the creation, stockpiling, or removal of construction site wastes.

Appropriate Applications
Solid waste management procedures and practices are implemented on all construction projects that generate solid wastes.
Solid wastes include but are not limited to:

- Construction wastes including brick, mortar, timber, steel and metal scraps, saw-dust, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials.
- Highway planting wastes, including vegetative material, plant containers, and packaging materials.
- Liter, including food containers, beverage cans, coffee cups, paper bags, plastic wrappers, and smoking materials, including litter generated by the public.

Hazardous Waste Management **WM-6**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

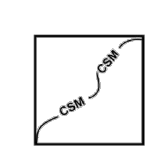
Definition and Purpose
These are procedures and practices to minimize or eliminate the discharge of pollutants from construction site hazardous waste to the storm drain system or to watercourses.

Appropriate Applications
This best management practice (BMP) applies to all construction projects.
Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Asphalt Products
- Concrete Curing Compounds
- Delegens
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

The contractor may discover contaminated soils not identified in the plans and specifications by observing: Spills and leaks, discoloration, odors or abandoned underground tanks or pipes.

Contaminated Soil Management **WM-7**



Standard Symbol

BMP Objectives	<input type="checkbox"/>
Soil Stabilization	<input type="checkbox"/>
Seaford Control	<input type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose
These are procedures and practices to minimize or eliminate the discharges of pollutants to the drainage system or to receiving waters from contaminated soil.

Appropriate Applications
Contaminated soil management is implemented on construction projects where soil contamination may have occurred due to spills, leaks, discharges, and leaks from underground storage tanks.
It may also apply to highway widening projects in older areas where median and shoulder soils may have been contaminated by aerially deposited lead (ADL).

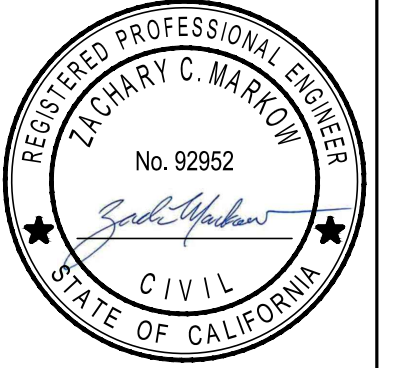
Limitations
The procedures and practices presented in this best management practice (BMP) are general. The contractor shall identify appropriate practices and procedures consistent with the plans and specifications for the specific contaminants known to exist or discovered on site.

Standards and Specifications
Identifying Contaminated Areas
Contaminated soils are often identified during project planning and development with known locations identified in the plans and specifications. The contractor shall review applicable reports and examine applicable call-outs in the plans and specifications.
The contractor may discover contaminated soils not identified in the plans and specifications by observing: Spills and leaks, discoloration, odors or abandoned underground tanks or pipes.



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SIGNATURE
DATE SIGNED

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SUNNYSLOPE COUNTY WATER DISTRICT
WATER SYSTEM CONSOLIDATION PROJECT
EROSION CONTROL PLANS- DETAILS

JOB #: 0557-0005
DESIGNERS: ZCM
DRAWN BY: ONW
DATE: 11/13/24
DRAWING NO.
C-2.7
19 OF 19 SHEETS