

13

IN-TRACT IMPROVEMENT PLANS

RANCHO VISTA

TRACT 322

MERITAGE HOMES

1671 EAST MONTE VISTA AVENUE, SUITE 214

VACAVILLE, CA 95688

707-359-2037

AUGUST 2016 SCALE AS INDICATED

VVH CONSULTING ENGINEERS

430 TENTH STREET

MODESTO, CALIFORNIA 95354

(209) 568-4477

SWPPP NOTE:

PRIOR TO START OF GRADING/CONSTRUCTION ACTIVITIES, A SWPPP PREPARED BY A CERTIFIED QSP/QSD SHALL BE SUBMITTED TO THE COUNTY PUBLIC WORKS DEPARTMENT. A QSD/QSP SHALL BE RETAINED FOR THE DURATION OF THE CONSTRUCTION AND SHALL BE RESPONSIBLE TO COORDINATE AND COMPLY WITH REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD, TO FILE A NOTICE OF INTENT PER CONSTRUCTION GENERAL PERMIT ORDER NO. 2009-0009-DWQ (AMENDED BY 2010-0014-DWQ) AND TO MONITOR THE PROJECT AREA AS TO COMPLIANCE WITH THE REQUIREMENTS UNTIL ITS COMPLETION.
WDID # 3 35C377800

OWNER:

MERITAGE HOMES
1671 E MONTE VISTA AVENUE #214
VACAVILLE, CA 95688
707-359-2029

DEVELOPER:

MERITAGE HOMES
1671 E MONTE VISTA AVENUE #214
VACAVILLE, CA 95688
707-359-2029

CITY ENGINEER'S APPROVAL:

APPROVAL OF THESE PLANS DOES NOT RELEASE THE DEVELOPER OF RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED HEREIN. IF DURING THE COURSE OF CONSTRUCTION OF THE IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF, OR DEPARTURE FROM, THE CITY SPECIFICATIONS OR THESE IMPROVEMENT PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

CIVIL ENGINEER:

VVH CONSULTING ENGINEERS
430 TENTH ST
MODESTO, CA 95354
209-568-4477

GEOTECHNICAL ENGINEER:

ENGO INCORPORATED
6399 SAN IGNACIO AVENUE
SAN JOSE, CA 95119
408-574-4900

APPROVAL ON FILE

ROGER GRIMSLEY, CITY ENGINEER
RCE 23003

06/08/2017
DATE

SAN JUAN BAUTISTA FIRE DEPT:

APPROVAL OF FIRE HYDRANT LAYOUT

APPROVAL ON FILE

JOHN FOX, SAN JUAN BAUTISTA
VOLUNTEER FIRE CHIEF

DATE

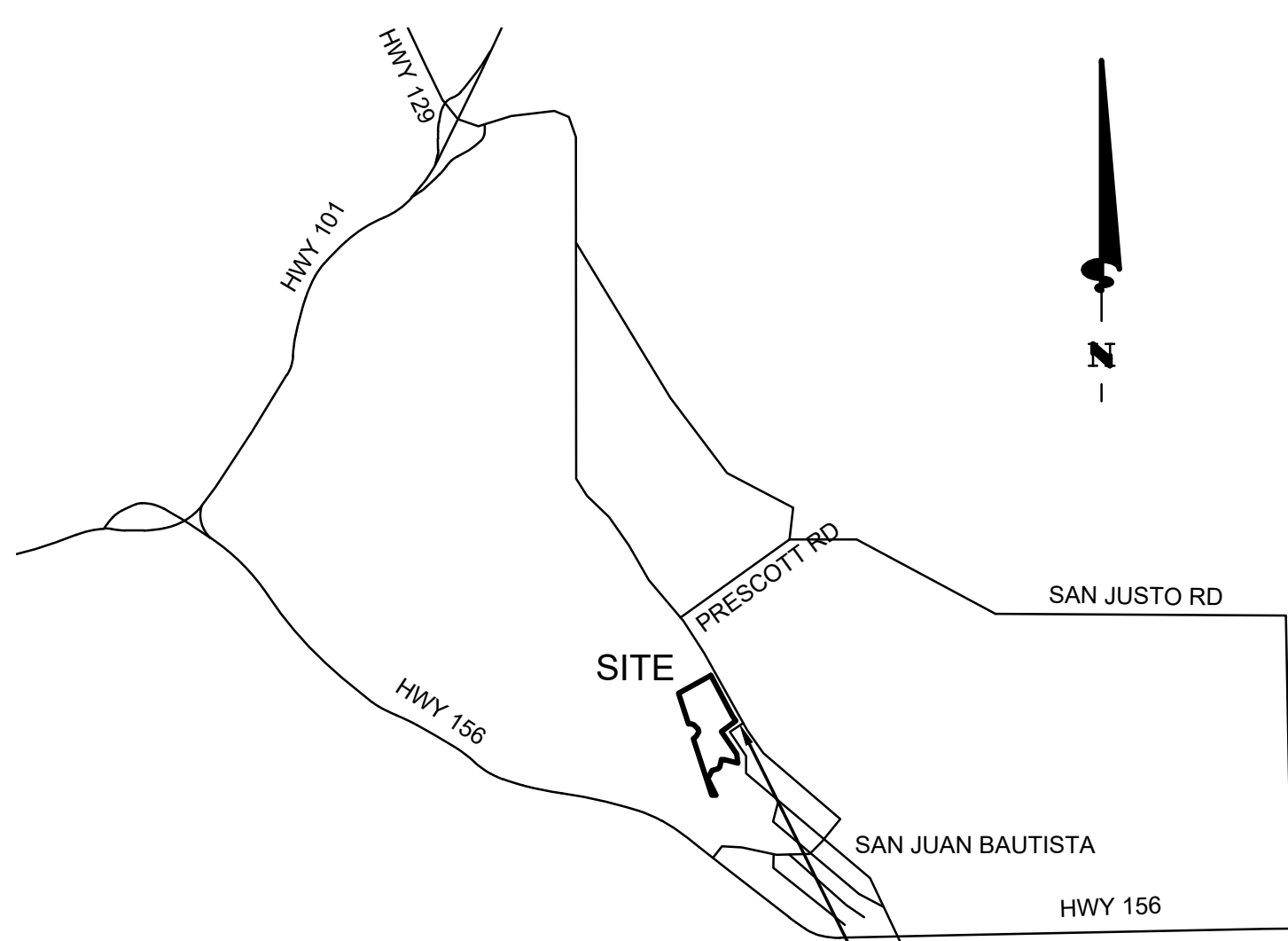
APPROVAL ON FILE

PATRICK DOBBINS, CITY ENGINEER
RCE 48223
(REVISION 13 IMPROVEMENTS ONLY)

08/08/2018
DATE

SHEET INDEX

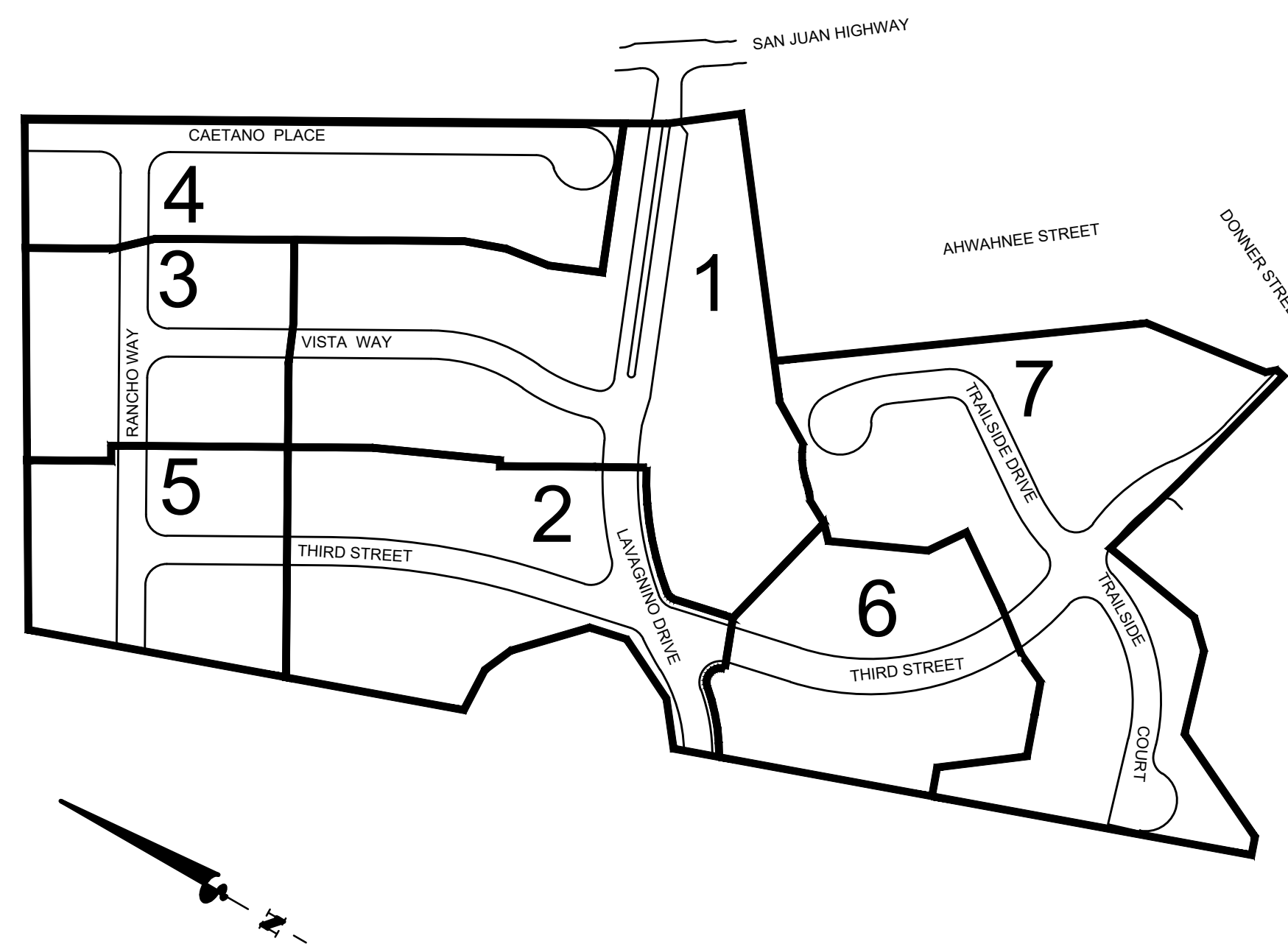
- COVER SHEET, LEGEND
- ROAD CROSS SECTIONS, DETAILS, NOTES
- DETAILS, NOTES
- UTILITY OVERVIEW
- SANITARY SEWER PLAN
- WATER PLAN
- STORM DRAIN PLAN
- GROUNDWATER DRAIN PLAN
- PLAN & PROFILE - LAVAGNINO DRIVE
- PLAN & PROFILE - VISTA WAY
- PLAN & PROFILE - CAETANO PLACE
- PLAN & PROFILE - THIRD STREET
- PLAN & PROFILE - RANCHO WAY
- PLAN & PROFILE - TRAILSIDE DRIVE/COURT
- PLAN & PROFILE - SAN JUAN HIGHWAY
- SIGNING & STRIPING PLAN
- GRADING PLAN
- GRADING PLAN
- INTERSECTION GRADING PLAN
- CULVERT AND CHANNEL GRADING PLAN
- DETAILS
- DETAILS
- DETAILS
- DETAILS
- DETAILS
- DETAILS
- DETAILS
- DETAILS
- ROCKERY RETAINING WALL DETAILS
- GEOWALL SPECIFICATIONS
- GEOWALL RETAINING WALL DETAILS
- GEOWALL RETAINING WALL DETAILS
- GEOWALL RETAINING WALL DETAILS
- MASONRY RETAINING WALL DETAILS
- MASONRY RETAINING WALL DETAILS



VICINITY MAP
NO SCALE

BENCHMARK: THE ELEVATIONS FOR THIS PROJECT ARE BASED ON THE BRASS DISK MONUMENT LOCATED ON THE CENTERLINE OF AHWAHNEE WAY, NEAR THE INTERSECTION WITH FIRST STREET. - EL=182.66

LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING GAS MAIN
	EXISTING STORM DRAIN
	EXISTING TELEPHONE
	EXISTING OVERHEAD UTILITY
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	WATER LINE
	RECLAIMED WATER LINE
	STORM DRAIN
	GROUNDWATER
	SANITARY SEWER
	JOINT TRENCH
	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	WATER VALVE
	FIRE HYDRANT
	BOUNDARY
	PROPERTY LINE
	CENTERLINE
	STORM DRAIN - DROP INLET
	WATER METER
	DIRECTION OF SURFACE FLOW
	DIRECTION OF SLOPE
	SURVEY MONUMENT
	TRAFFIC SIGN
	STREET NAME SIGN
	ELECTROLIER
	EXISTING POWER POLE
	TO BE REMOVED
	EXISTING
	PROPOSED
	FURNISH AND INSTALL
	SWPPP
	QSD
	QSP
	ACP
	TC
	BOW
	FF
	FG
	FL
	CL



UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND SHALL NOTIFY VVH CONSULTING ENGINEERS OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS BEFORE PROCEEDING WITH FABRICATION.

VVH CONSULTING ENGINEERS ACCEPTS NO LIABILITY FOR IMPROVEMENTS PREPARED BY SAN BENITO ENGINEERING, INCLUDING IMPROVEMENTS SHOWN IN THE APPROVED PLANS DATED JUNE 8, 2017 THROUGH REVISION 12 DATED DECEMBER 2017.

13

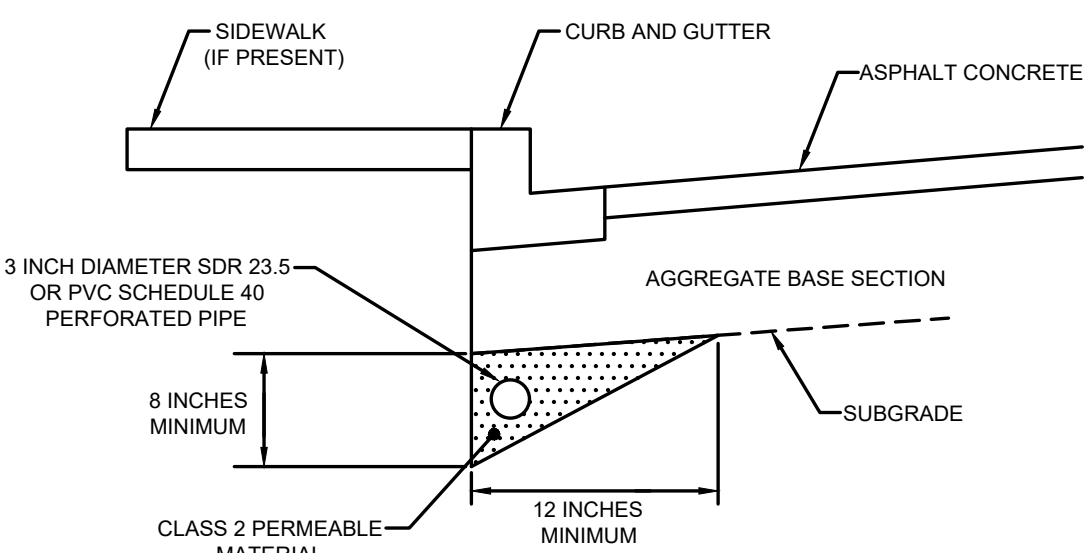
RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.

DATE: JANUARY 8, 2021

RECORD DRAWING
 IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS
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 DATE: JANUARY 8, 2021



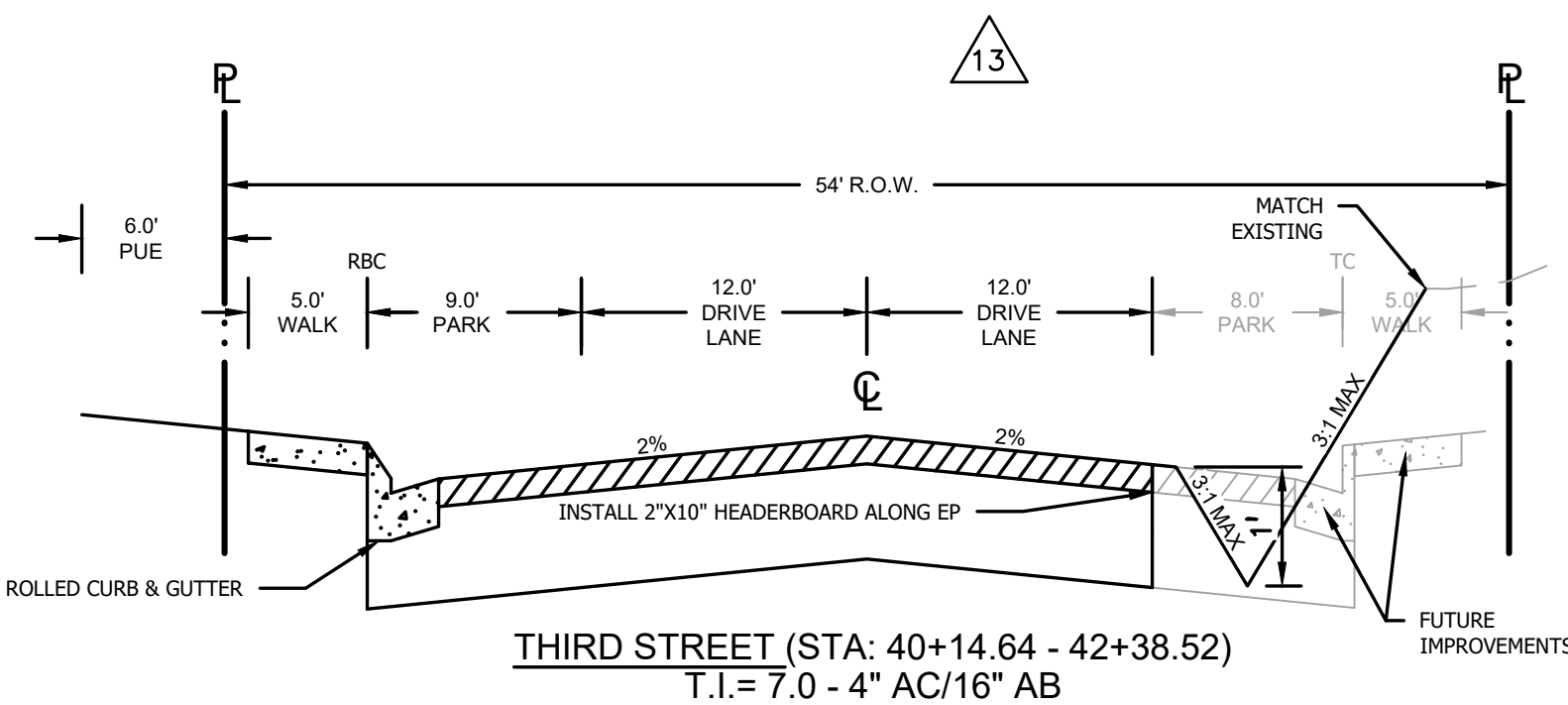
NOTES:

- PERFORATED PIPE TO BE SURROUNDED BY AT LEAST 2 INCHES OF CLASS 2 PERMEABLE MATERIAL.
- PERFORATED PIPE TO DISCHARGE INTO GROUNDWATER DRAIN SYSTEM CONSISTENT WITH GEOTECHNICAL REPORT SECTION 2.12 (SURFACE AND SUBSURFACE DRAINAGE).
- PERFORATED PIPE TO BE LOCATED BELOW EXISTING SHALLOW UNDERGROUND UTILITIES WHERE THEY CROSS.
- FOR CROWNED STREETS, PAVEMENT EDGE DRAIN TO BE INSTALLED ON BOTH SIDES OF STREET. FOR FIXED CROSS SLOPE STREETS, PAVEMENT EDGE DRAIN TO BE INSTALLED ON LOW SIDE OF STREET.

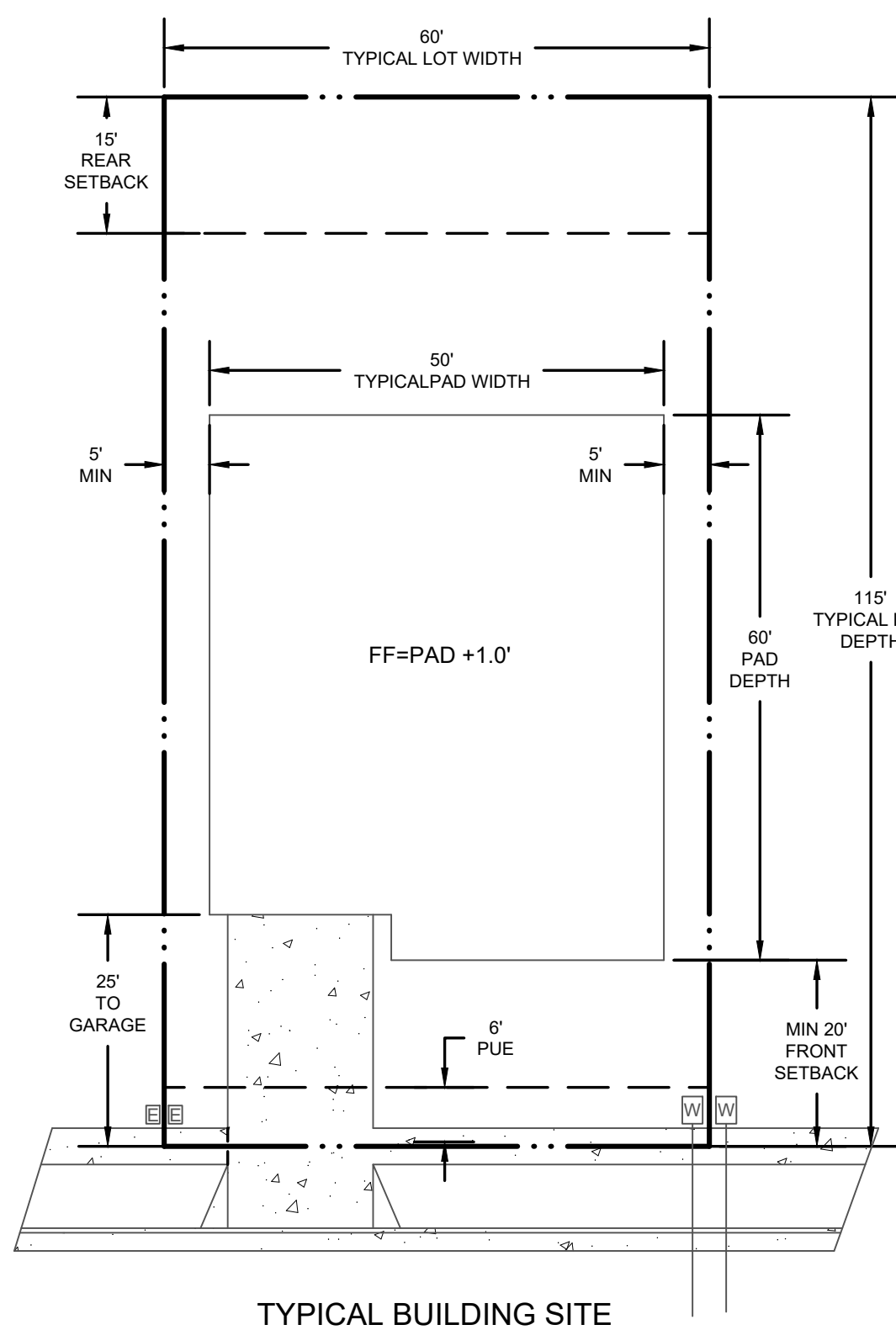
SCALE N.T.S.

PAVEMENT EDGE DRAIN

PLATE 3



THIRD STREET (STA: 40+14.64 - 42+38.52)
 T.I.= 7.0 - 4" AC/16" AB



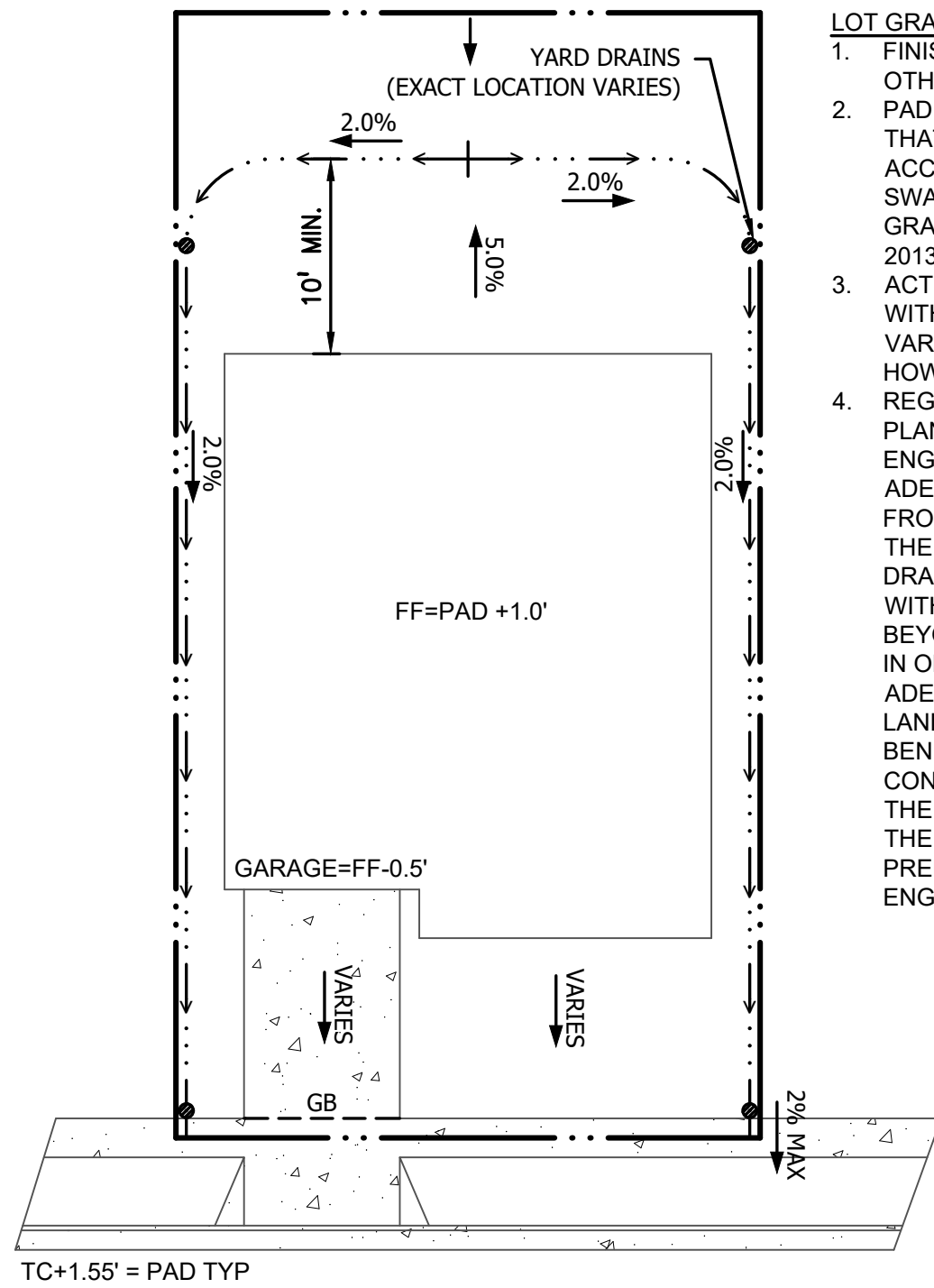
TYPICAL BUILDING SITE

PAVEMENT SECTION				
T.I.	AC	CLII AB	TOTAL	
4.0	4.0	4.0	8.0	
4.5	4.0	6.0	10.0	
5.0	4.0	8.0	12.0	
5.5	4.0	10.0	14.0	
6.0	4.0	12.0	16.0	
6.5	4.0	14.5	18.5	
7.0	4.0	16.0	20.0	

NOTE: SLOPE GRADIENTS PER THE GEOTECHNICAL REPORT

**NORTH PROPERTY LINE
 DETAIL REMOVED**

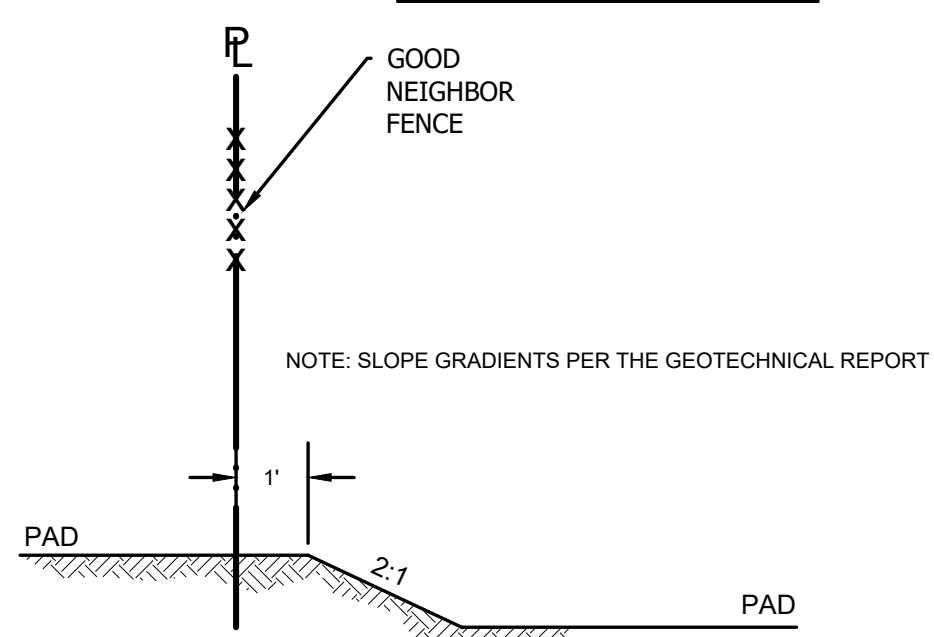
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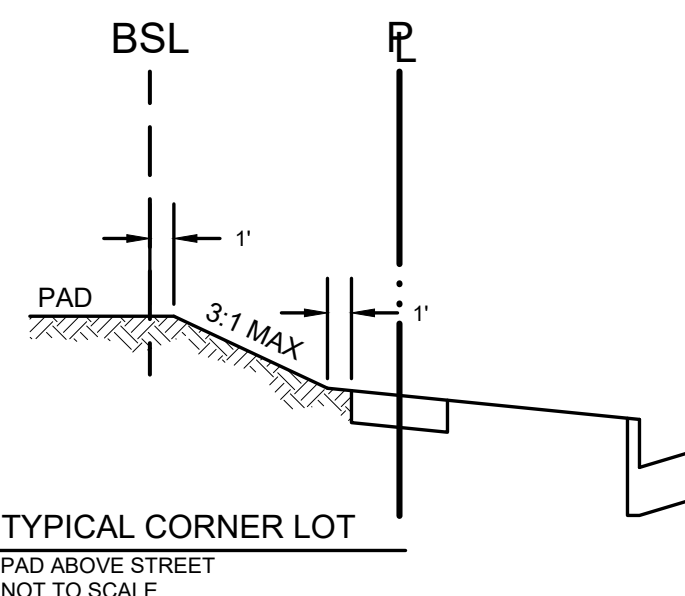
TYPICAL SITE GRADING

LOT GRADING NOTES

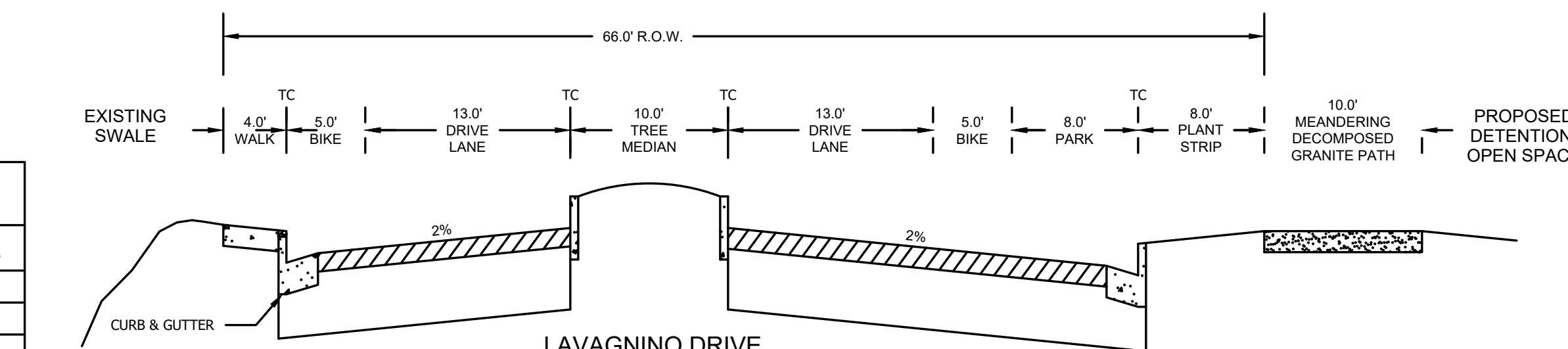
- FINISH GRADING IS TO BE COMPLETED BY OTHERS AFTER HOUSE CONSTRUCTION. PAD ELEVATIONS ARE DESIGNED SUCH THAT THE PAD ELEVATION SPECIFIED WILL ACCOMMODATE REAR AND SIDE YARD SWALES TO BE GRADED AT A MINIMUM GRADIENT OF 2% IN ACCORDANCE WITH 2013 CALIFORNIA BUILDING CODE.
- ACTUAL LOT GRADING IS TO BE DESIGNED WITH THE HOUSE PLOT PLAN AND MAY VARY FROM THE TYPICAL DEPENDING ON HOW THE HOUSE IS PLOTTED.
- REGARDING LOT DRAINAGE, THE GRADING PLAN PREPARED BY SAN BENITO ENGINEERING IS MEANT TO ENSURE THAT ADEQUATE SURFACE DRAINAGE AWAY FROM AND AROUND THE HOUSE AND TO THE STREET OR OTHER APPROVED DRAINAGE FACILITY CAN BE ACHIEVED WITHOUT ANY SUBSTANTIAL EARTH MOVING BEYOND THE INITIAL GRADING OPERATION. IN ORDER TO ACTUALLY ACHIEVE ADEQUATE DRAINAGE, FINISH GRADING AND LANDSCAPING, WHICH ARE BEYOND SAN BENITO ENGINEERING'S SCOPE AND CONTROL, MUST FAITHFULLY INCORPORATE THE DRAINAGE CONCEPTS CONTAINED IN THE PLANS AND SPECIFICATIONS PREPARED BY VVH CONSULTING ENGINEERS.



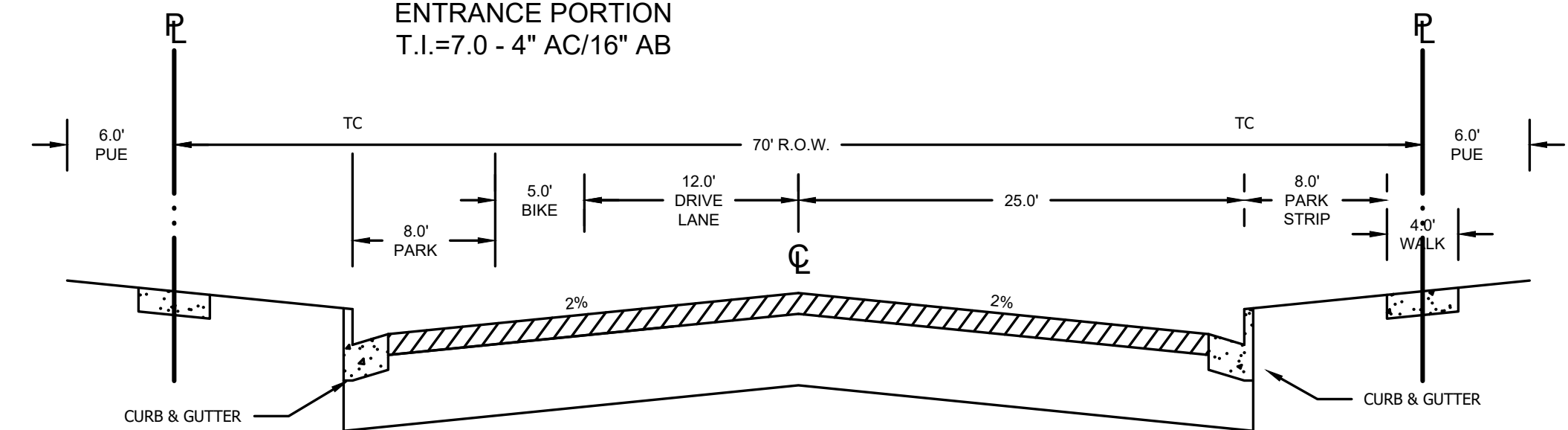
REAR YARD PAD CONFORM ($\Delta > 1'$)
 NOT TO SCALE



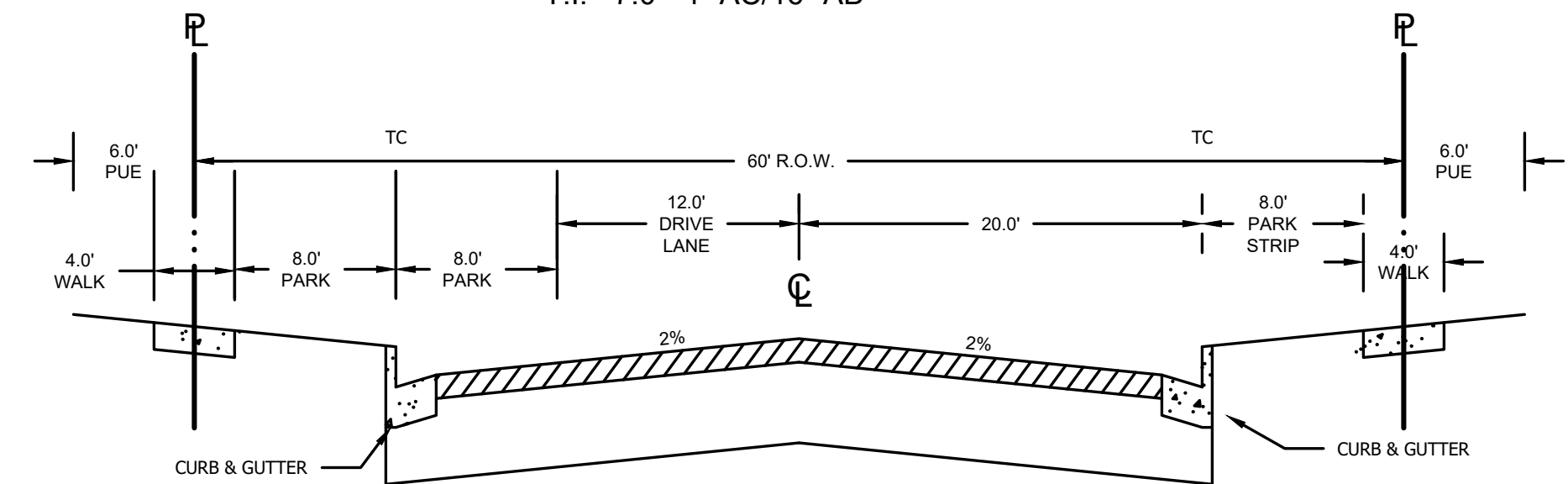
TYPICAL CORNER LOT
 PAD ABOVE STREET
 NOT TO SCALE



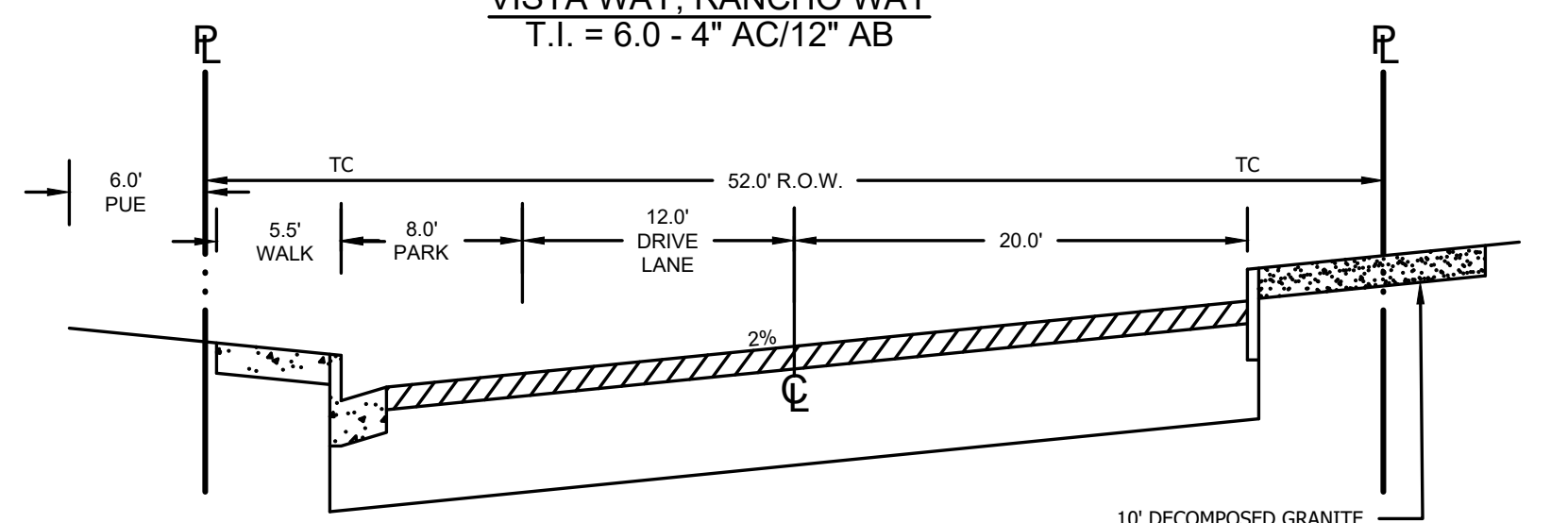
LAVAGNINO DRIVE
 ENTRANCE PORTION
 T.I.= 7.0 - 4" AC/16" AB



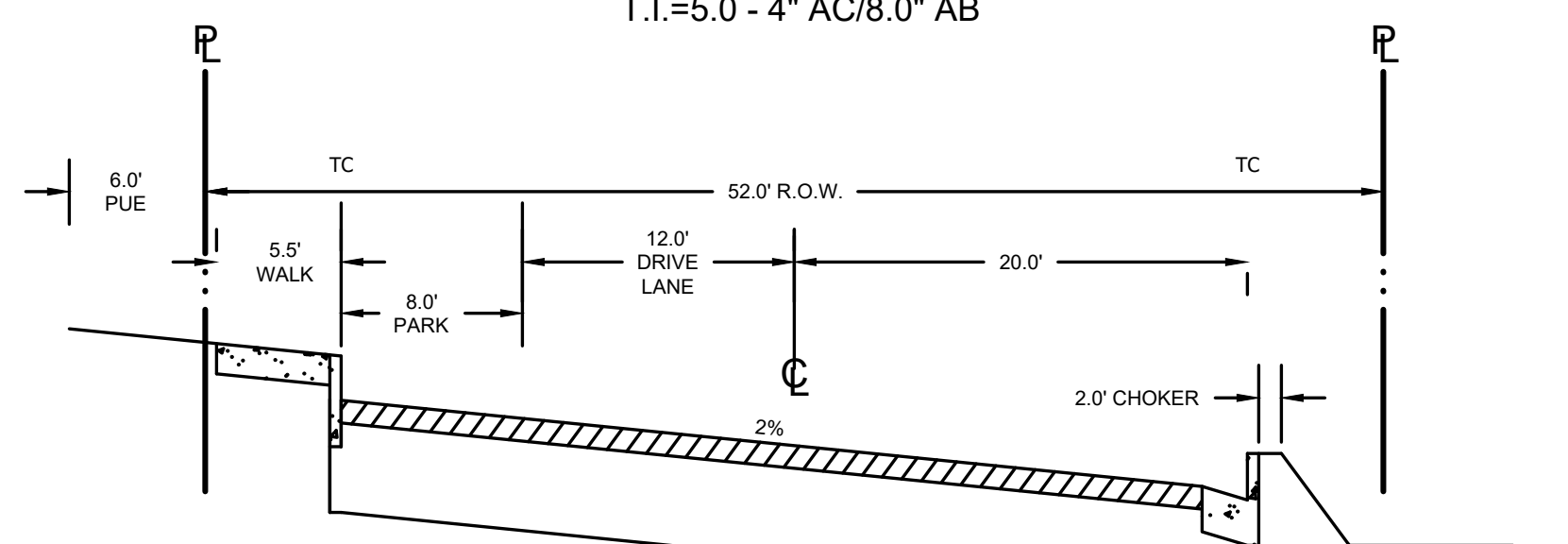
LAVAGNINO DRIVE (from Vista to Third)
 THIRD STREET (from Lavagnino to Trailside)
 T.I.= 7.0 - 4" AC/16" AB



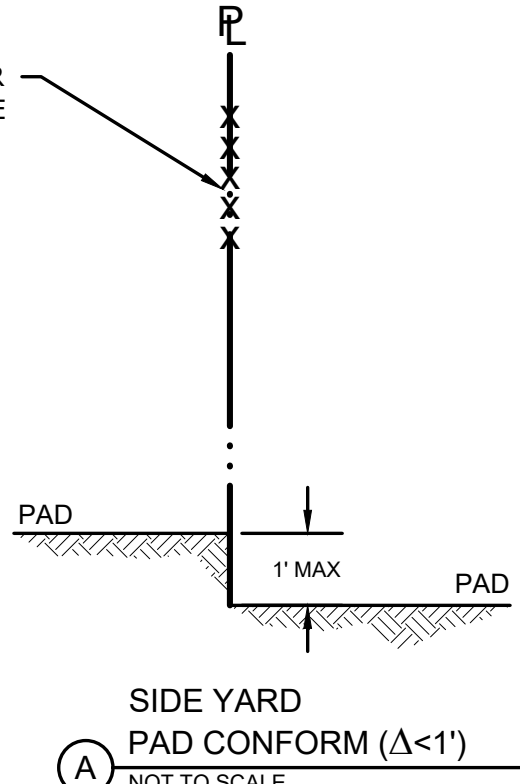
THIRD STREET (from Ranch to Lavagnino)
 VISTA WAY, RANCHO WAY
 T.I.= 6.0 - 4" AC/12" AB



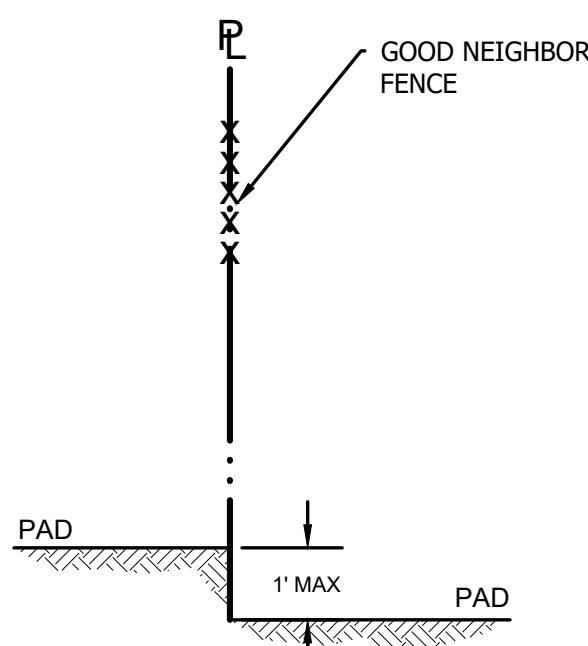
TRAILSIDE DRIVE
 TRAILSIDE COURT
 T.I.= 5.0 - 4" AC/8.0" AB



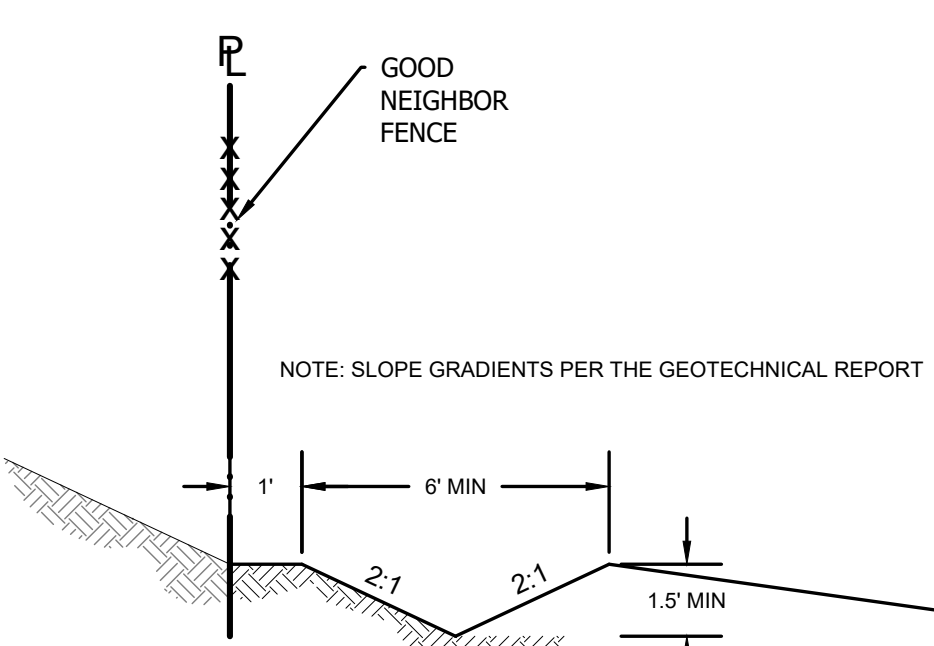
CAETANO PLACE
 T.I.= 5.0 - 4" AC/8.0" AB



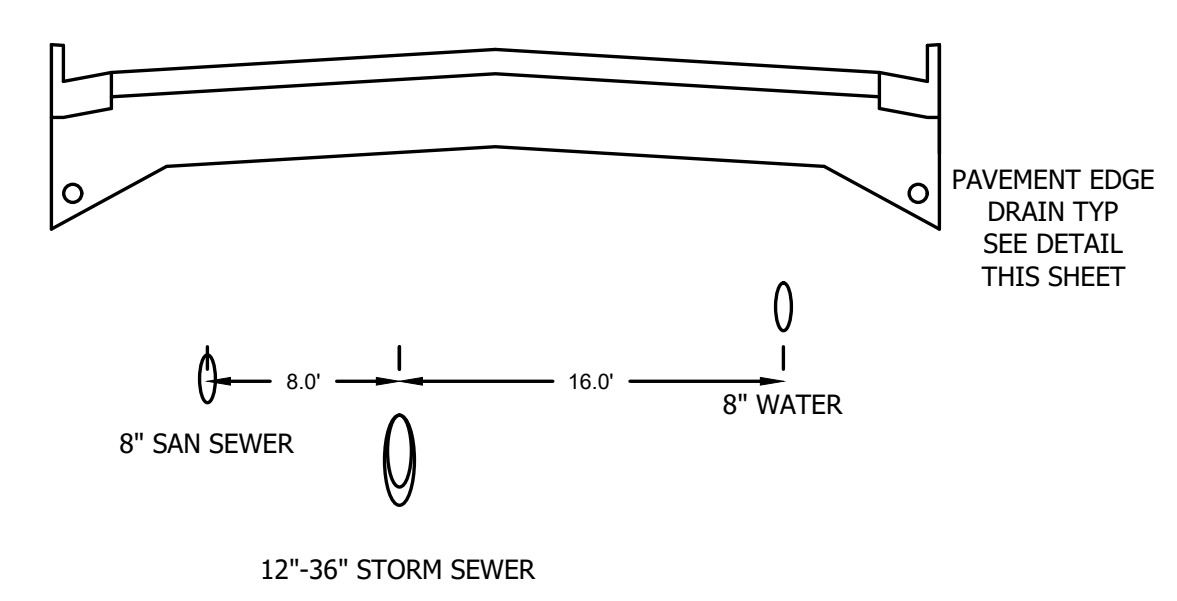
SIDE YARD PAD CONFORM ($\Delta < 1'$)
 NOT TO SCALE



REAR YARD PAD CONFORM ($\Delta < 1'$)
 NOT TO SCALE



REAR YARD PAD CONFORM WEST PROPERTY LINE
 NOT TO SCALE



INTERIOR ROADS, TYP

The Contractor shall verify and be responsible for the accuracy of all scale drawings. Any errors or omissions shall be reported to VVH Consulting Engineers, Inc. immediately upon discovery. VVH Consulting Engineers, Inc. is not responsible for any errors or omissions in drawings or the property of VVH Consulting Engineers, Inc. for any purpose other than that authorized in writing by VVH Consulting Engineers, Inc. for construction until sealed, signed and dated by the Engineer.



NO.	REVISIONS	DATE
13	THIRD ST LAYOUT REVS	05/18
R	RECORD DRAWING	01/21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

MASS GRADING PLAN
 ROAD CROSS SECTIONS,
 DETAILS, NOTES

SCALE: SCALE AS MARKED
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 02 NOTES.dwg

SHEET: **2**
 OF **34** SHEETS

* FILE NAME: W:\10130600\civil\design\drawing\sheet_notes\record_drawing\02_NOTES.dwg * Printed on: Tuesday, 05 January 2021 at 2:14pm by: SYUJ *

DRAWN BY: CC
 DATE: 7-30-15
 JOB NUMBER: 3893.104

GENERAL NOTES

- 1. ALL CONSTRUCTION MUST BE TO THE CITY OF SAN JUAN BAUTISTA STANDARDS AND ACCEPTED BY THE PUBLIC WORKS INSPECTOR. STANDARD PLANS ARE AVAILABLE AT THE OFFICE OF THE PUBLIC WORKS INSPECTOR.
2. CONTRACTOR SHALL MEET WITH THE CITY OF SAN JUAN BAUTISTA AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. 24 HOURS' NOTICE REQUIRED ON ALL INSPECTIONS.
3. CONTRACTOR IS RESPONSIBLE TO MAKE ALL ARRANGEMENTS FOR SITE INSPECTIONS AND INSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF SAN JUAN BAUTISTA ARE FOLLOWED PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION WORK.
4. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK WITHIN THE PUBLIC RIGHT OF WAY ALONG THIRD STREET AND FIRST STREET (SAN JUAN HIGHWAY). COA 4
5. CONSTRUCTION SHALL BE LIMITED TO THE HOURS OF 7:30 A.M. AND 6:00 P.M., MONDAY THRU FRIDAY, AND 9:00 A.M. TO 6:00 P.M. SATURDAYS FOR ALL CONSTRUCTION WORK ON LOTS 71-77 AND LOTS 82-85. NO CONSTRUCTION WILL BE ALLOWED ON SUNDAYS. COA 31
6. APPLICANT SHALL RESTRICT ALL LOUD NOISES, VIBRATORY EQUIPMENT, TRUCKS BACKUP DEVICES, AND GAS POWERED COMPACTION TOOLS TO HOURS BETWEEN 8:30 A.M. TO 4:00 P.M. DURING THE PERMITTED DAYS OF THE WEEK FOR CONSTRUCTION ON LOTS 71 TO 77, 82 TO 85. NO CONSTRUCTION ON SUNDAYS UNLESS IT IS WITHIN A CONFINED BUILDING WHERE ALL NOISES ARE CONTAINED INSIDE THE BUILDING. COA 32
7. INSPECTION REQUESTS SHALL BE LIMITED TO NORMAL CITY BUSINESS HOURS: 8:00 A.M. TO 5:00 P.M., MONDAY THRU FRIDAY. ARRANGEMENTS FOR ANY OVERTIME INSPECTION SERVICES SHOULD BE MADE 48 HOURS IN ADVANCE AND ARE SUBJECT TO INSPECTION AVAILABILITY AND APPROVAL BY THE CITY ENGINEER.
8. THE OWNER IS RESPONSIBLE FOR ARRANGEMENTS TO PAY FOR ALL MATERIAL TESTING REQUIRED BY THE PUBLIC WORKS INSPECTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TESTING REQUIRED BY THE PUBLIC WORKS INSPECTOR IS PERFORMED. ANY RETESTING REQUIRED DUE TO FAILURE OF THE INITIAL TEST IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. CONTRACTOR SHALL UTILIZE ONLY LAVAGNINO DRIVE FOR ACCESS UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL FIELD REVIEW SITE PRIOR TO SUBMITTING HIS BID.
11. SAW CUT ALL TRENCHES IN EXISTING PAVEMENT.
12. CONTRACTOR IS RESPONSIBLE FOR COMPACTION OF ALL UTILITY TRENCHES INCLUDING P.G.&E, AND FOR THE SPOILS GENERATED BY THESE SAME UTILITY TRENCHES.
13. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL U.S.A. 1-(800) 642-2444 AND CITY OF SAN JUAN BAUTISTA SERVICE DEPARTMENT (831) 636-4370 & (831) 636-4377, 48 HOURS PRIOR TO ANY DIGGING.
14. THE CONTRACTOR/OWNER SHALL NOTIFY VVH CONSULTING ENGINEERS AT LEAST 48 HOURS PRIOR TO THE NEED FOR CONSTRUCTION STAKING.
15. THE PROPERTY OWNER/DEVELOPER SHALL REPLACE ANY STREET OR SIDEWALK IMPROVEMENTS OR UTILITY SERVICES THAT ARE REMOVED OR DAMAGED DURING THE CONSTRUCTION OF THE PROJECT AS DETERMINED BY THE CITY ENGINEER. THIS COULD INCLUDE, BUT IS NOT LIMITED TO, PERMEABLE PAVING, PCC CURBS, GUTTERS, SIDEWALKS; STREET LIGHTING; SIGNING AND STRIPING; ALL UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO, SANITARY SEWER, GAS, ELECTRICAL, TELEPHONE, AND WATER AND FIRE SERVICE LINES; AND ALL OTHER IMPROVEMENTS TO BRING THE RIGHT OF WAY INTO FULL CONFORMANCE WITH APPLICABLE CITY STANDARDS. ALL CONSTRUCTION IN THE RIGHT-OF-WAY SHALL BE COMPLETED PRIOR TO FINAL BUILDING APPROVAL.
16. THE OWNER IS RESPONSIBLE FOR ANY PERMITS AND ASSOCIATED FEES.
17. CONTRACTOR SHALL COORDINATE ALL UTILITY COMPANY WORK.
18. CONTRACTOR SHALL FURNISH SUBMITTALS AND TEST REPORTS ON ALL PIPES, VALVES, FITTINGS AND OTHER INTEGRAL ITEMS TO THE CITY.
19. CONTRACTOR REQUIRED TO CLEAN THE EXISTING IMPROVED STREETS AT THE END OF EACH WORKING DAY AND OTHER TIMES AS REQUIRED BY THE ENGINEER.
20. ALL UTILITIES MUST BE UNDERGROUND.
21. ALL BURIED METALLIC PIPE AND FITTINGS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION AS PER THE CITY OF SAN JUAN BAUTISTA STANDARD SPECIFICATIONS.
22. THE CONTRACTOR IS TO MAINTAIN NO LESS THAN ONE TEN FOOT WIDE TRAVEL LANE IN EACH DIRECTION AT ALL TIMES, OR WITH THE APPROVAL OF THE PUBLIC WORKS INSPECTOR, DURING DAYLIGHT HOURS: ONE TWELVE FOOT WIDE TRAVEL LANE FOR BOTH DIRECTIONS WITH TRAFFIC CONTROL DEVICES AS REQUIRED BY THE PUBLIC WORKS INSPECTOR.
23. THE CONTRACTOR IS TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE & TRAFFIC CONTROL PLAN AND RECEIVE APPROVAL FROM THE CITY OF SAN JUAN BAUTISTA ENGINEERING DEPARTMENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. TRAFFIC CONTROL SHALL ADDRESS CONSTRUCTION SIGNING AWAY FROM THE SITE, STORM DRAIN CROSSINGS, SPOILS HANDLING, UTILITIES, PAVING OPERATIONS AND BUSINESS NOTIFICATIONS OF INTERRUPTIONS (WHICH SHALL BE KEPT TO A MINIMUM).
24. ANY IMPROVEMENTS CONSTRUCTED WITHOUT INSPECTION AS PROVIDED ABOVE OR CONSTRUCTED CONTRARY TO THE ORDER OR INSTRUCTIONS OF THE CITY ENGINEER WILL BE DEEMED AS NOT COMPLYING WITH STANDARD SPECIFICATIONS AND WILL NOT BE ACCEPTED BY CITY OF SAN JUAN BAUTISTA FOR MAINTENANCE PURPOSES, AND MAY BE CAUSE FOR ISSUANCE OF A CORRECTION NOTICE OR STOP WORK ORDER.
25. WITHIN TEN DAYS AFTER RECEIVING THE REQUEST FOR FINAL INSPECTION, THE CITY ENGINEER SHALL INSPECT THE WORK. THE CONTRACTOR AND CONSULTING ENGINEER WILL BE NOTIFIED IN WRITING AS TO ANY PARTICULAR DEFECTS OR DEFICIENCIES TO BE REMEDIED. THE CONTRACTOR SHALL PROCEED TO CORRECT ANY PARTICULAR DEFECTS OR DEFICIENCIES AT THE EARLIEST POSSIBLE DATE. AT SUCH TIME AS THE WORK HAS BEEN COMPLETED, A SECOND INSPECTION SHALL BE MADE BY THE CITY ENGINEER TO DETERMINE IF THE PREVIOUSLY MENTIONED DEFECTS HAVE BEEN REPAIRED, ALTERED, AND COMPLETED IN ACCORDANCE WITH THE WORK FOR CITY OF SAN JUAN BAUTISTA. THE CONTRACTOR AND CONSULTING ENGINEER WILL BE NOTIFIED IN WRITING AS TO THE DATE OF FINAL APPROVAL AND ACCEPTANCE.
26. THE CITY WILL ENSURE THAT THE PROVISIONS OF THE APPROVED PLANS AND SPECIFICATIONS ARE COMPLIED WITH, ESPECIALLY WITH REGARD TO THE QUALITY OF WORKMANSHIP AND MATERIALS. IN THE EVENT OF ANY DISCREPANCY OR MATTER OF JUDGEMENT, THE DECISION OF THE CITY ENGINEER OR THEIR AUTHORIZED REPRESENTATIVE WILL BE BINDING ON THE CONTRACTOR AND DESIGN ENGINEER.
27. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACCEPTED WORKMANSHIP PRACTICE AND THESE IMPROVEMENT STANDARDS. ORDERS GIVEN BY THE CITY RELATING TO QUALITY OF MATERIALS AND WORKMANSHIP SHALL BE COMPLIED WITH PROMPTLY BY THE CONTRACTOR.
28. ALL MATERIALS USED SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE DEPARTMENT AT ALL TIMES, AND SHALL NOT BE USED BEFORE BEING INSPECTED AND APPROVED BY THE INSPECTOR. THE DEPARTMENT HAS THE RIGHT TO PERFORM ANY TESTING DEEMED NECESSARY TO ENSURE COMPLIANCE OF THE MATERIALS WITH THE MATERIALS SPECIFICATIONS. FAILURE OR NEGLIGENCE ON THE PART OF THE DEPARTMENT TO CONDEMN OR REJECT WORK OF MATERIALS NOT IN ACCORDANCE SHOULD THEIR INFERIORITY BECOME EVIDENT AT ANY TIME. MATERIALS REJECTED BY THE CITY SHALL BE IMMEDIATELY REMOVED FROM THE JOB SITE.
29. CONTRACTOR SHALL BE IN POSSESSION OF PLANS APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
30. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND SHALL NOTIFY CITY ENGINEER OF ANY DAMAGED OR REMOVED CITY, STATE OR BUREAU MONUMENTS.
32. WHERE WORK IS BEING DONE IN AN OFF-SITE EASEMENT, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 48 HOURS PRIOR TO COMMENCING WORK.
33. THE PROPERTY SHALL BE CONTINUALLY MAINTAINED AND KEPT FREE OF TRASH AND CLUTTER. OUTDOOR STORAGE OF ANY AND ALL MATERIALS AND EQUIPMENT SHALL BE LOCATED BEHIND A STRUCTURE, VEGETATION, OR A SOLID WOOD FENCE THAT PROVIDES SCREENING FROM PUBLIC VIEW. SOLID WASTE SHALL BE STORED IN CLOSED CONTAINERS, WHICH WILL BE SCREENED FROM PUBLIC VIEW, AND TRANSPORTED TO AN APPROVED DUMPSITE ON A REGULAR BASIS.
34. IF PREHISTORIC OR HISTORIC ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE UNEXPECTEDLY DISCOVERED DURING CONSTRUCTION, WORK SHALL BE HALTED WITHIN 50 METERS (160 FEET MORE OR LESS) OF THE FIND UNTIL IT CAN BE EVALUATED BY A QUALIFIED PROFESSIONAL ARCHAEOLOGIST. IF THE FIND IS DETERMINED TO BE SIGNIFICANT, APPROPRIATE MITIGATION MEASURES SHALL BE FORMULATED AND IMPLEMENTED. COA 33

- 35. THE CONTRACTOR SHALL SUBMIT TO THE CITY AND COUNTY HEALTH DEPARTMENT A HAZARDOUS WASTE MANAGEMENT PLAN, TOGETHER WITH EMERGENCY CONTACT INFORMATION. COA 35
36. THE APPLICANT SHALL SUBMIT TO THE CITY A SOLID WASTE DISPOSAL PLAN FOR ALL SOLID WASTE MATERIAL DISPOSED OF FROM THE PROJECT SITE. COA 36
37. ALL STATIONS REFER TO DISTANCES ALONG CENTERLINE, UNLESS OTHERWISE NOTED. ALONG CURVED CENTERLINES, ALL STATIONS ARE PERPENDICULAR TO OR RADIALLY OPPOSITE FROM CENTERLINE.

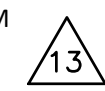
GRADING NOTES

- 1. DUST CONTROL DURING THE GRADING PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE SOILS SHALL BE WATERED DURING SITE GRADING AND CONSTRUCTION ACTIVITIES TO MINIMIZE DUST. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CLEANLINESS OF THE EXISTING IMPROVED STREETS IN AND AROUND THE CONSTRUCTION AREA.
2. WATER FOR DUST CONTROL AND USE FOR COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO START OF ANY WORK, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY FEES OF DEPOSITS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER OF ANY ANTICIPATED SOILS IMBALANCE SO GRADES CAN BE ADJUSTED. ADJUSTMENTS REQUIRE THE APPROVAL OF THE CITY ENGINEER.
4. PADS SHALL BE GRADED WITHIN ± 0.1'.
5. ALL GRADING ACTIVITIES AT THE PROJECT SITE SHALL CEASE DURING HIGH WIND PERIODS. THE CITY PLANNING DEPARTMENT SHALL BE CONTACTED WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO HIGH WINDS. COA 40
6. IN THE DRIVEWAY AND PARKING AREAS COMPACT UPPER 12" OF SUBGRADE MATERIAL TO 95% MINIMUM RELATIVE DENSITY UNDER A.C. PAVEMENT, CURB, GUTTER AND DRIVEWAY. FOLLOW RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT BY ENGED INCORPORATED, PROJECT NO 13170.000.000, DATED 14 DEC 2016
7. ROOTS WITHIN 12" OF SUBGRADE ARE TO BE REMOVED.
8. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH A COPY OF ALL CUT SHEETS.
9. PROPOSED PAD ELEVATIONS ARE ABOVE THE 100-YEAR BASE FLOOD ELEVATIONS AS SHOWN IN THE SCHAAF & WHEELER CONSULTING CIVIL ENGINEERS MEMORANDUM DATED APRIL 17, 2017 (JOB#: VVHC.01.17).



WATER NOTES

- 1. SAND BEDDING FOR ALL PIPES SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
2. ALL ENDS, BENDS, AND TEES ON WATER LINES MUST HAVE ADEQUATE THRUST BLOCKS CALCULATED FROM THE CITY OF SAN JUAN BAUTISTA STANDARDS.
3. CITY OF SAN JUAN BAUTISTA WILL OPERATE ALL EXISTING WATER VALVES. CONTRACTOR SHALL MAKE ARRANGEMENTS 48 HOURS IN ADVANCE WITH THE CITY OF SAN JUAN BAUTISTA INSPECTOR.
4. ALL WATER MAINS TO HAVE A MINIMUM OF 36" COVER AND SHALL BE D.I.P. OR P.V.C. (AWWA C-900) WITH #10 INSULATED WIRE. COMPLETED WATER SYSTEM MUST PASS HYDROSTATIC AND LEAKAGE TESTS, AND CONTINUITY TESTS FOR TRACER WIRE.
5. WATER SERVICE MATERIAL SHALL BE POLYETHYLENE SDR 9 (ASTM D-2737) WITH CONNECTION MADE TO MAINS AT SPRINGLINE PER CITY OF SAN JUAN BAUTISTA STANDARDS.
6. ALL WATER SERVICES SHALL HAVE A HAND TAMPED SAND BEDDING 6" BENEATH TUBING, SHALL HAVE 6" MINIMUM CLEARANCE ON EACH SIDE, AND 12" MIN SAND COVER.
7. ALL NON-POTABLE WATER MAINS TO HAVE A MINIMUM OF 36" COVER AND SHALL BE P.V.C. (AWWA C-900 PURPLE PIPE) WITH #10 INSULATED WIRE. COMPLETED WATER SYSTEM MUST PASS HYDROSTATIC AND LEAKAGE TESTS, AND CONTINUITY TESTS FOR TRACER WIRE.



SANITARY SEWER NOTES

- 4. ALL SANITARY SEWER MAINS TO BE P.V.C. SEWER PIPE (SDR 26, ASTM D-3034) AND IS SUBJECT TO MANDREL TEST FOR 5% DEFLECTION, A LOW PRESSURE AIR TEST, AND TV CAMERA VIDEO.
5. SEWER SERVICE FOR RESIDENTIAL LOTS TO BE A MINIMUM 4" PIPE AND MUST BE MARKED WITH AN "S" ON THE CURB FACE.
6. THE SANITARY SEWER SYSTEM TO SERVE THE DEVELOPMENT SHALL BE DESIGNED AND INSTALLED AT THE DEVELOPER'S EXPENSE IN ACCORDANCE WITH THE CITY OF SAN JUAN BAUTISTA DESIGN STANDARDS. STANDARD SPECIFICATIONS, AND STANDARD PLANS FOR SANITARY SEWERS.
7. ALL SANITARY SEWER AND WATER MAINS SHALL HAVE 10 FEET MINIMUM SEPARATION AS SHOWN ON STANDARD PLAN B-13.
8. SANITARY SEWER MAIN TO BE PVC SDR 26. INSTALL WATER STOP GASKET AND CLAMP ASSEMBLY AT ALL MANHOLE CONNECTIONS. INSTALL #10 TRACING WIRE AT SPRINGLINE OR CURVED MAIN FROM MANHOLE TO MANHOLE.
9. SANITARY SEWER MAINS CROSSING WATER MAINS SHALL CONFORM TO THE "NO JOINT ZONES" AS SHOWN AND SPECIFIED ON STANDARD PLAN B-13.
10. SEWER SERVICES FOR RESIDENTIAL LOTS TO BE 4" P.V.C. SCHEDULE 40 OR A.B.S. (SDR 26) AND MUST BE MARKED WITH AN "S" ON THE CURB FACE. (CITY NOTE NO. 18).
11. TRACER WIRE (#10 INSULATED WIRE) TO BE INSTALLED OVER ALL CURVED SEWER MAINS UNLESS MANHOLE IS INSTALLED.
12. INSTALL CLEANOUT ON ENDS OF ALL SEWER MAINS UNLESS MANHOLE IS INSTALLED.
13. SEE SANITARY SEWER PLAN FOR LOTS THAT SHALL REQUIRE BACKWATER VALVES.

STORM DRAIN NOTES

- 1. CURB INLETS ARE TO BE CITY OF SAN JUAN BAUTISTA STANDARD TYPE "A" UNLESS OTHERWISE NOTED.
2. STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ASTM C76, OR SDR 35.0 PVC, UNLESS OTHERWISE INDICATED. STORM DRAIN PIPE TO BE BEDDED PER CITY OF SAN JUAN BAUTISTA STANDARD PLANS E-1-1 AND E-1-2. ALL RCP PIPE SHALL HAVE SUFFICIENT PIPE CLASS TO MEET D-LOAD REQUIREMENTS. CONTRACTOR SHALL SUBMIT D-LOAD CALCULATIONS FOR RCP PIPE.
3. STORM DRAIN LINE CURVATURE SHALL NOT EXCEED 80% OF THE MANUFACTURER'S RECOMMENDATIONS.

STREET SURFACE IMPROVEMENTS

- 1. PAVING SHALL CONFORM TO THE SPECIFICATION OF THE GEOTECHNICAL INVESTIGATION BY ENGED INCORPORATED, PROJECT NO 13170.000.000, DATED 14 DEC 2016, AND THE CITY OF SAN JUAN BAUTISTA STDS.
2. PAVING: ALL POINTS OF GRADE CHANGE NOT WITHIN A VERTICAL CURVE SHALL BE ROUNDED IN THE FIELD FOR PROPER APPEARANCE. SIDEWALK TO BE 4" THICK AND CONSTRUCTED OF PORTLAND CEMENT CONCRETE. SIDEWALK TO BE 6" THICK IN ALL DRIVEWAYS, CURB, BUTTER, AND SIDEWALK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH CITY OF SAN JUAN BAUTISTA STANDARD DETAILS AND SPECIFICATIONS AND AS SHOWN WITHIN THESE PLANS.
3. AGGREGATE BASE SHALL BE "CRUSHED MISCELLANEOUS BASE" CONFORMING TO SECTION 200-2.4 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1997 EDITION, MEETING THE FOLLOWING MINIMUM VALUES: R=78, SE-22, DURABILITY INDEX=35. ALL ASPHALT CONCRETE SHALL BE CLASS "C1-AR-4000" CONFORMING TO SECTION 203.6 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1997 EDITION. ASPHALT CONCRETE SHALL BE PLACED IN ONE LIFT. APPLY FOG SEAL TO FINISH PAVEMENT.
4. TACK EDGE OF EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW PAVEMENT.
5. ALL MANHOLE RIMS, VALVE BOXES, PUBLIC MONUMENT BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING HAS BEEN PLACED.
6. IRRIGATION SLEEVE LOCATIONS SHALL BE MARKED USING A 2" X 4" STAKE EXTENDING 3' ABOVE GROUND AT EACH SLEEVE END.
7. ALL TRENCHES ADJACENT TO EXISTING ROADWAYS SHALL BE EITHER CLOSED UP TIGHT OR BE ENCLOSED BY A 6' HIGH CHAIN LINK FENCE AND DELINEATED BY LIGHTED BARRICADES.
8. TRENCH BACKFILL SHALL CONFORM TO CITY OF SAN JUAN BAUTISTA STANDARD PLANS E-1-1 AND E-1-2. UTILITY TRENCHES BACKFILLED WITH SAND THAT ENTER BUILDING PADS SHOULD BE BACKFILLED WITH AN IMPERMEABLE SOIL PLUS THAT EXTENDS 3 FEET BEYOND THE PERIMETER OF THE BUILDING PAD AND TO THE BOTTOM OF THE TRENCH, SAND BACKFILLED UTILITY TRENCHES THAT CROSS PLANTER AREAS, PAVEMENTS, OR SIDEWALKS SHOULD BE PLUGGED AS DESCRIBED AS ABOVE.

- 9. CONTRACTOR IS TO MAKE PROVISIONS FOR TRENCH SPOILS. ON-SITE LOCATION FOR TRENCH SPOILS TO BE DESIGNATED BY THE OWNER AND APPROVED BY THE CITY ENGINEER PRIOR TO PLACEMENT.
10. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL U.S.A. 1-800-642-2444 AND CITY OF SAN JUAN BAUTISTA PUBLIC WORKS DEPARTMENT (831) 623-4661 48 HOURS PRIOR TO ANY DIGGING.
11. CONTRACTOR SHALL FURNISH CERTIFICATES OF COMPLIANCE TO THE CITY FOR CRUSHED MISCELLANEOUS BASE MATERIAL AND FOR SPECIFIED CLASS OF P.C.C. PRIOR TO PAVING ROADWAYS.
12. DRIVEWAY LOCATIONS WILL BE DETERMINED BY OWNER PRIOR TO CONSTRUCTION OF CURB AND GUTTER, UNLESS OTHERWISE SHOWN ON THE PLANS. MINIMUM WIDTH SHALL BE 16' AS MEASURED AT THE BOTTOM OF THE DEPRESSION.
13. IN AREAS WHICH ARE TO RECEIVE A.C., P.C.C., OR AGGREGATE BASE, THE CONTRACTOR SHALL MAINTAIN SUBGRADE AT THE AS-GRADED WATER CONTENT. IF THE SUBGRADE IS ALLOWED TO DRY, THE WATER CONTENT OF SOIL SHOULD BE RAISED TO THE RECOMMENDED VALUE SPECIFIED FOR THE PROJECT AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
14. CURRENT CITY OF SAN JUAN BAUTISTA CONSTRUCTION STANDARDS ARE THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION, EXCEPT AS MODIFIED BY "THE CITY OF SAN JUAN BAUTISTA STANDARD SPECIFICATIONS" LATEST EDITION.

The Contractor shall verify and be responsible for the accuracy of all scale drawings. Any errors or omissions shall be reported to VVHCE without delay. The City of San Juan Bautista drawings are the property of VVHCE. No part of these drawings shall be used for any purpose other than that authorized in writing by VVHCE in a permit for construction until sealed, signed and dated by the Engineer.



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Modesto, CA 95354
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Table with columns: NO., REVISIONS, DATE, ADDED, NON-POTABLE, RECORD DRAWING

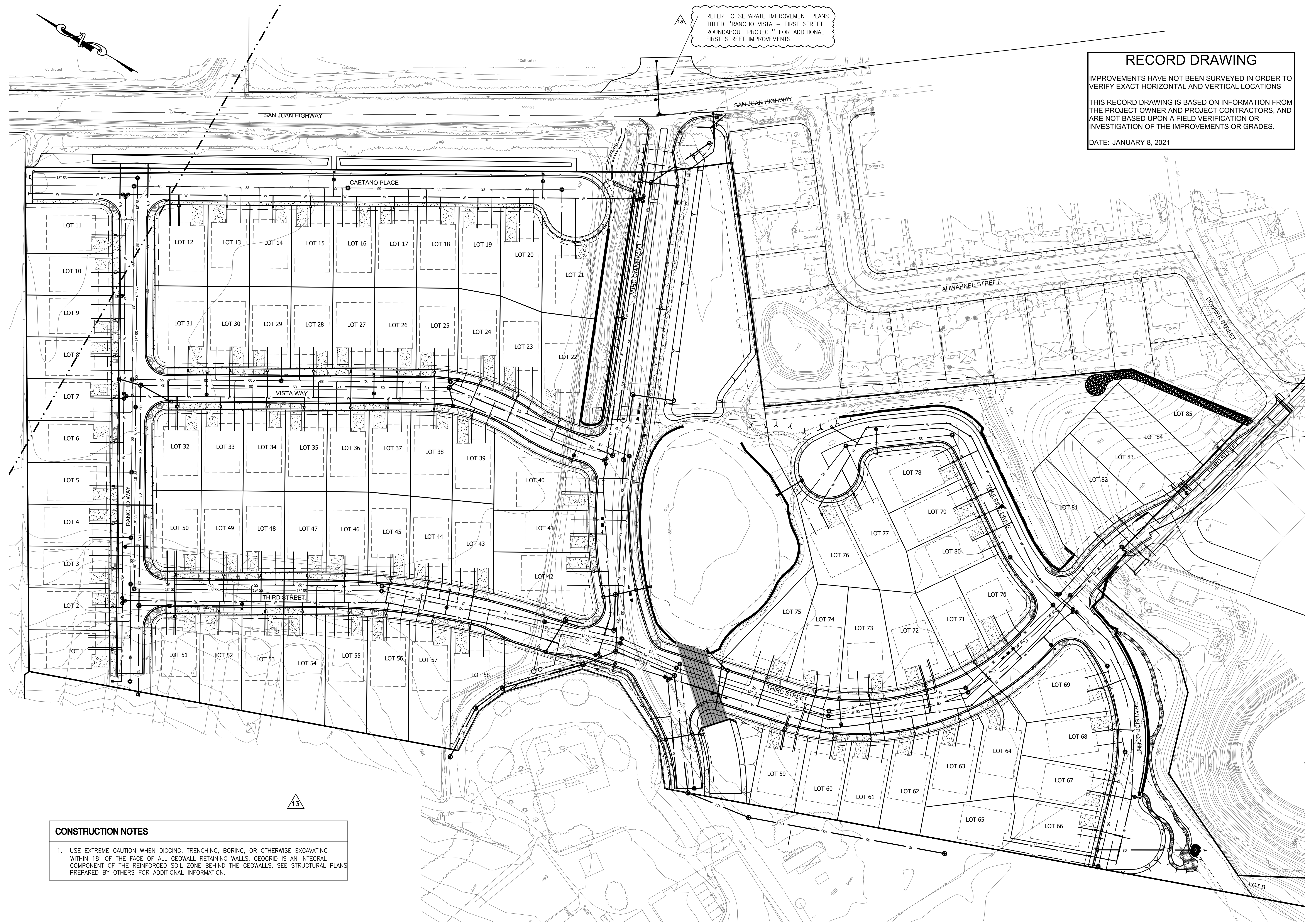
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS, NOTES
SCALE: SCALE AS MARKED
DATE: 05 January 2021
JOB #: 113071
DWG: 03 SECTIONS.dwg

SHEET: 3 OF 34 SHEETS

RECORD DRAWING
IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS
THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.
DATE: JANUARY 8, 2021

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REFER TO SEPARATE IMPROVEMENT PLANS TITLED "RANCHO VISTA - FIRST STREET ROUNDABOUT PROJECT" FOR ADDITIONAL FIRST STREET IMPROVEMENTS

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DATE: JANUARY 8, 2021

CONSTRUCTION NOTES
1. USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

The Contractor shall verify and be responsible for the accuracy of all field data and utility locations shown on this drawing. Any errors or omissions shall be reported to WICE without delay. WICE is not responsible for any errors or omissions on drawings or the property of WICE. WICE is not responsible for any purpose other than that authorized in writing by WICE. WICE is not authorized to be used for construction until sealed, signed and dated by the Engineer.



NO.	REVISIONS	DATE
1	ADDED NOTES	07.18
2	RECORD DRAWINGS	01.21

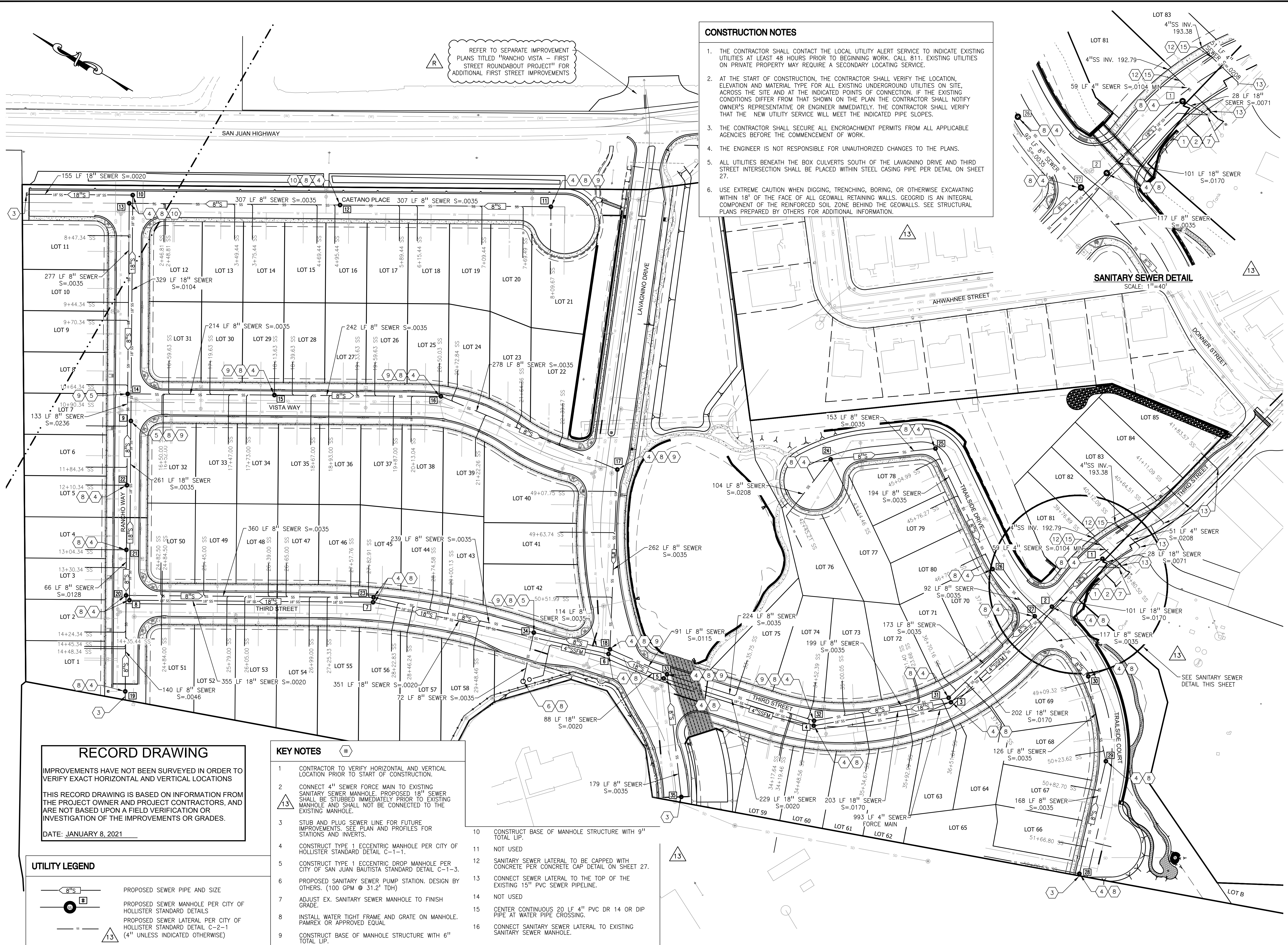
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
UTILITY OVERVIEW

SCALE: SCALE 1"=60'
DATE: 05 January 2021
JOB #: 113071
DWG: 04 UTILS.dwg

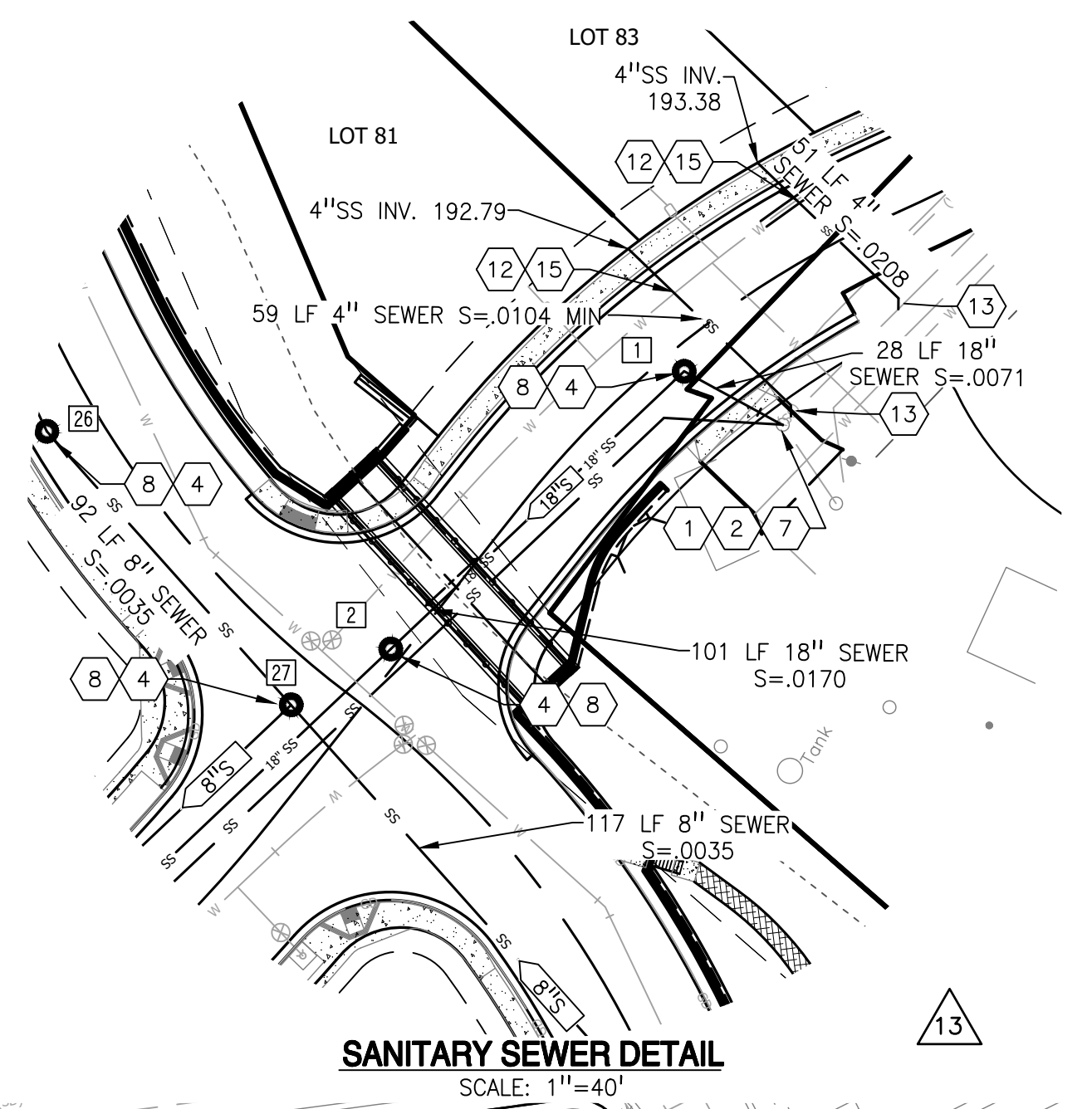
SHEET: **4**
OF **34** SHEETS

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REFER TO SEPARATE IMPROVEMENT PLANS TITLED "RANCHO VISTA - FIRST STREET ROUNDABOUT PROJECT" FOR ADDITIONAL FIRST STREET IMPROVEMENTS

- ### CONSTRUCTION NOTES
1. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY ALERT SERVICE TO INDICATE EXISTING UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. CALL 811. EXISTING UTILITIES ON PRIVATE PROPERTY MAY REQUIRE A SECONDARY LOCATING SERVICE.
 2. AT THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MATERIAL TYPE FOR ALL EXISTING UNDERGROUND UTILITIES ON SITE, ACROSS THE SITE AND AT THE INDICATED POINTS OF CONNECTION. IF THE EXISTING CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN THE CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL VERIFY THAT THE NEW UTILITY SERVICE WILL MEET THE INDICATED PIPE SLOPES.
 3. THE CONTRACTOR SHALL SECURE ALL ENCROACHMENT PERMITS FROM ALL APPLICABLE AGENCIES BEFORE THE COMMENCEMENT OF WORK.
 4. THE ENGINEER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES TO THE PLANS.
 5. ALL UTILITIES BENEATH THE BOX CULVERTS SOUTH OF THE LAVAGNINO DRIVE AND THIRD STREET INTERSECTION SHALL BE PLACED WITHIN STEEL CASING PIPE PER DETAIL ON SHEET 27.
 6. USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18" OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

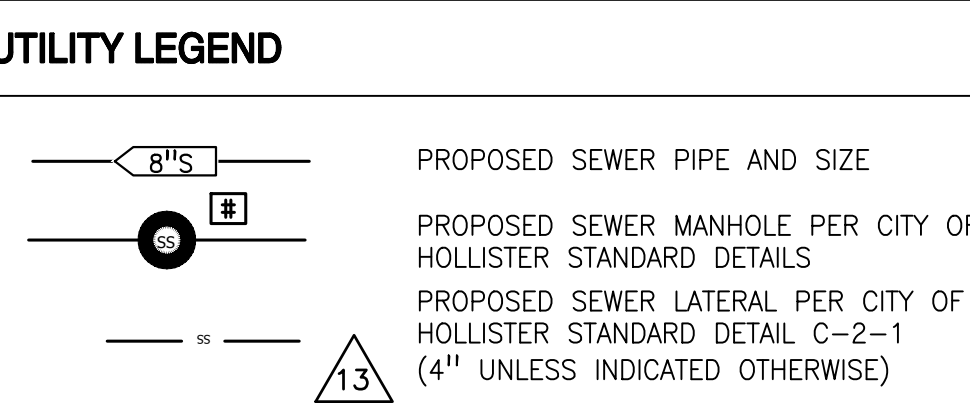


RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

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DATE: JANUARY 8, 2021



- ### KEY NOTES
1. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO START OF CONSTRUCTION.
 2. CONNECT 4" SEWER FORCE MAIN TO EXISTING SANITARY SEWER MANHOLE. PROPOSED 18" SEWER SHALL BE STUBBED IMMEDIATELY PRIOR TO EXISTING MANHOLE AND SHALL NOT BE CONNECTED TO THE EXISTING MANHOLE.
 3. STUB AND PLUG SEWER LINE FOR FUTURE IMPROVEMENTS. SEE PLAN AND PROFILES FOR STATIONS AND INVERTS.
 4. CONSTRUCT TYPE 1 ECCENTRIC MANHOLE PER CITY OF HOLLISTER STANDARD DETAIL C-1-1.
 5. CONSTRUCT TYPE 1 ECCENTRIC DROP MANHOLE PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL C-1-3.
 6. PROPOSED SANITARY SEWER PUMP STATION. DESIGN BY OTHERS. (100 GPM @ 31.2' TDH)
 7. ADJUST EX. SANITARY SEWER MANHOLE TO FINISH GRADE.
 8. INSTALL WATER TIGHT FRAME AND GRATE ON MANHOLE. PAMREX OR APPROVED EQUAL
 9. CONSTRUCT BASE OF MANHOLE STRUCTURE WITH 6" TOTAL LIP.
 10. CONSTRUCT BASE OF MANHOLE STRUCTURE WITH 9" TOTAL LIP.
 11. NOT USED
 12. SANITARY SEWER LATERAL TO BE CAPPED WITH CONCRETE PER CONCRETE CAP DETAIL ON SHEET 27.
 13. CONNECT SEWER LATERAL TO THE TOP OF THE EXISTING 15" PVC SEWER PIPELINE.
 14. NOT USED
 15. CENTER CONTINUOUS 20 LF 4" PVC DR 14 OR DIP PIPE AT WATER PIPE CROSSING.
 16. CONNECT SANITARY SEWER LATERAL TO EXISTING SANITARY SEWER MANHOLE.

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NO.	REVISIONS	DATE
1	LOT 81-85 UTILITY REV	07/18
2	RECORD DRAWINGS	01/21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
SANITARY SEWER PLAN

SCALE: SCALE 1"=60'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 05_SSP\AN.dwg
 SHEET: **5**
 OF **34** SHEETS

RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS
 THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.
 DATE: JANUARY 8, 2021

REFER TO SEPARATE IMPROVEMENT PLANS TITLED "RANCHO VISTA - FIRST STREET ROUNDABOUT PROJECT" FOR ADDITIONAL FIRST STREET IMPROVEMENTS

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY ALERT SERVICE TO INDICATE EXISTING UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. CALL 811. EXISTING UTILITIES ON PRIVATE PROPERTY MAY REQUIRE A SECONDARY LOCATING SERVICE.
2. AT THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MATERIAL TYPE FOR ALL EXISTING UNDERGROUND UTILITIES ON SITE, ACROSS THE SITE AND AT THE INDICATED POINTS OF CONNECTION. IF THE EXISTING CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN THE CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL VERIFY THAT THE NEW UTILITY SERVICE WILL MEET THE INDICATED PIPE SIZES.
3. THE CONTRACTOR SHALL SECURE ALL ENCROACHMENT PERMITS FROM ALL APPLICABLE AGENCIES BEFORE THE COMMENCEMENT OF WORK.
4. THE ENGINEER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES TO THE PLANS.
5. INSTALL BLUE REFLECTIVE MARKER IN STREET AT ALL PROPOSED FIRE HYDRANT LOCATIONS PER STANDARD DETAIL.
6. INSTALL THRUST BLOCKS AT ALL WATER MAIN AND NON-POTABLE WATER MAIN CHANGES IN DIRECTION AND AT ALL TEES/ELBOWS/CROSSES PER STANDARD DETAIL.
7. CURVED WATER LINES SHOWN SHALL BE INSTALLED WITH 20' SEGMENTS AND NOT EXCEED MANUFACTURER'S MAXIMUM DEFLECTION ANGLE.
8. ALL UTILITIES BENEATH THE BOX CULVERTS SOUTH OF THE LAVAGNINO DRIVE AND THIRD STREET INTERSECTION SHALL BE PLACED WITHIN STEEL CASING PIPE PER DETAIL ON SHEET 27.
9. WATER MAINS SHALL MAINTAIN 1' CLEAR SEPARATION FROM ELECTRICAL SUBSTRUCTURES AND 3' CLEAR SEPARATION FROM JOINT TRENCH UTILITIES.
10. USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

The Contractor shall verify and be responsible for the accuracy of all utility locations shown on this drawing. Any errors or omissions shall be reported to WACE without delay. WACE is not responsible for any utility locations shown on this drawing that are not the property of WACE. WACE is not responsible for any utility locations shown on this drawing for any purpose other than that authorized in writing by WACE. WACE is not responsible for construction until sealed, signed and dated by the Engineer.



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NO.	REVISIONS	DATE
1	WATER REVISIONS	07/17
2	WATER REVISIONS	11/17
3	WATER REVISIONS	07/18
4	RECORD DRAWINGS	01/21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
WATER PLAN

SCALE: SCALE 1"=60'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 06_WPLAN.dwg

SHEET:	6
OF	34

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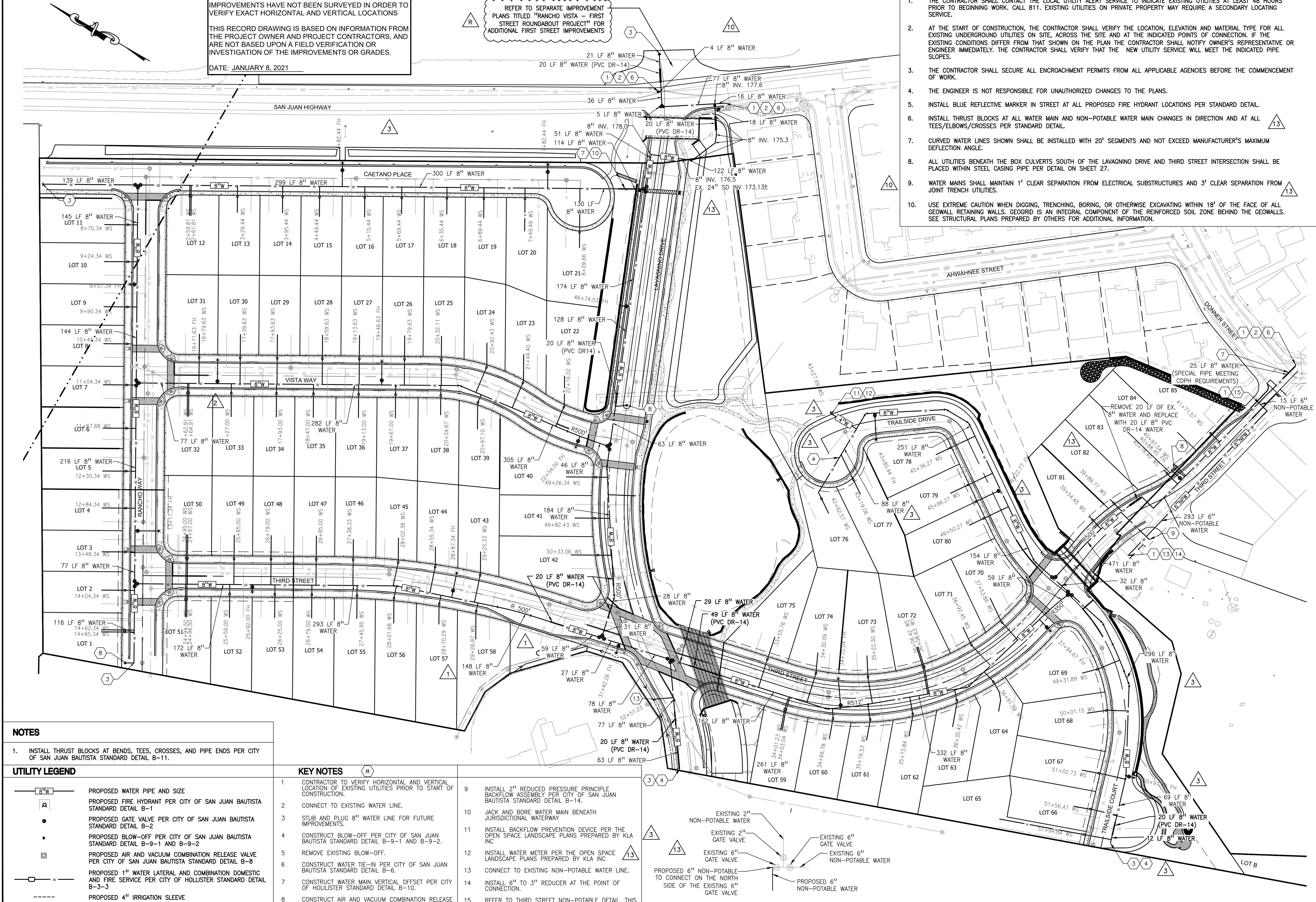
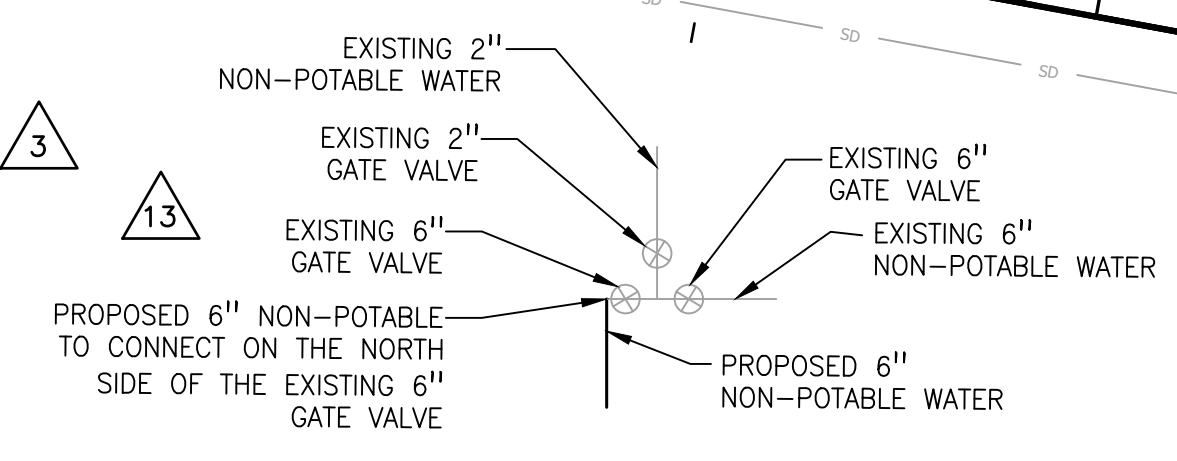
1. INSTALL THRUST BLOCKS AT BENDS, TEES, CROSSES, AND PIPE ENDS PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-11.

UTILITY LEGEND

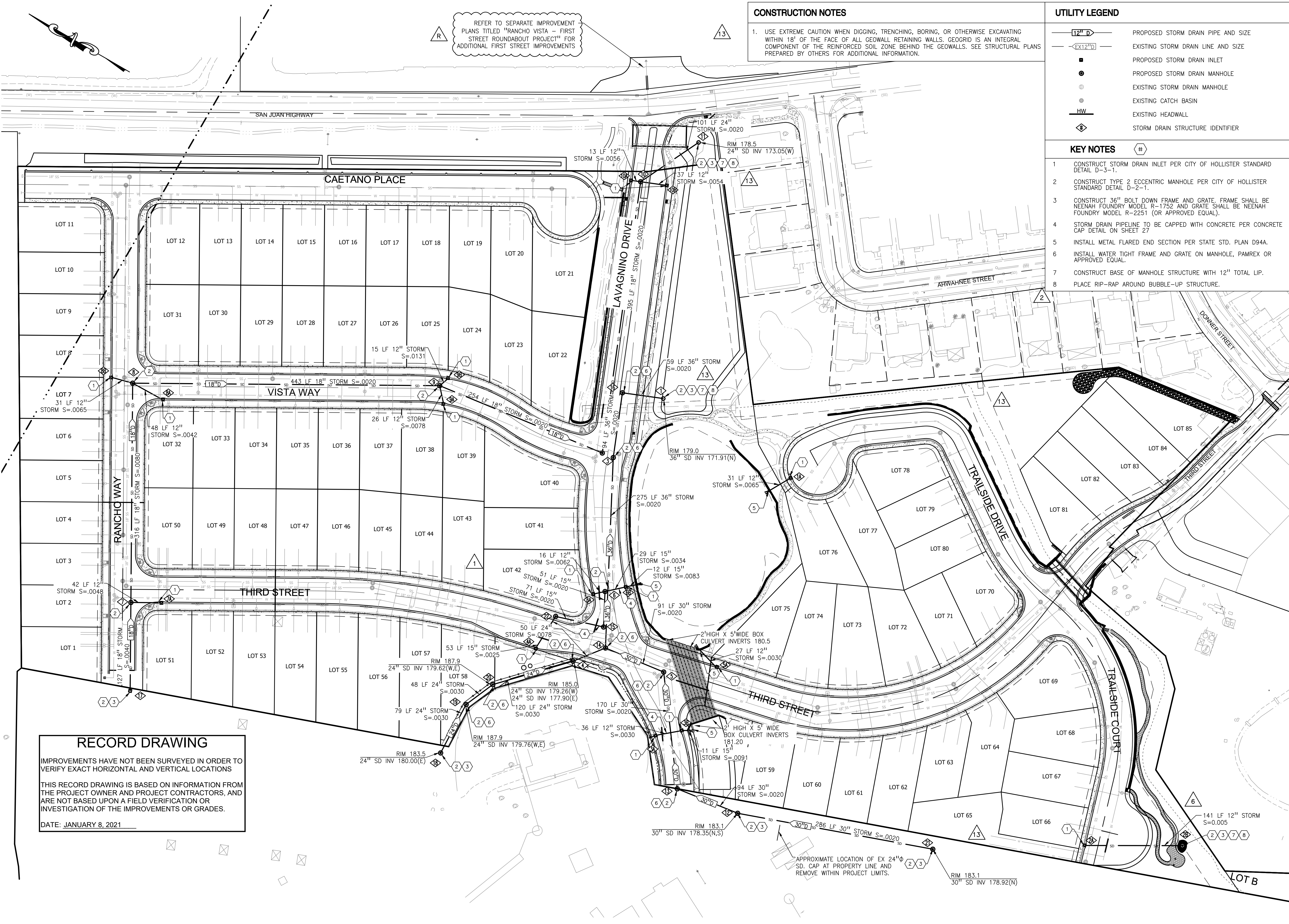
	PROPOSED WATER PIPE AND SIZE
	PROPOSED FIRE HYDRANT PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-1
	PROPOSED GATE VALVE PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-2
	PROPOSED BLOW-OFF PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-9-1 AND B-9-2
	PROPOSED AIR AND VACUUM COMBINATION RELEASE VALVE PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-8
	PROPOSED 1" WATER LATERAL AND COMBINATION DOMESTIC AND FIRE SERVICE PER CITY OF HOLLISTER STANDARD DETAIL B-3-3
	PROPOSED 4" IRRIGATION SLEEVE

KEY NOTES

1	CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.	9	INSTALL 2" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-14.
2	CONNECT TO EXISTING WATER LINE.	10	JACK AND BORE WATER MAIN BENEATH JURISDICTIONAL WATERWAY
3	STUB AND PLUG 8" WATER LINE FOR FUTURE IMPROVEMENTS.	11	INSTALL BACKFLOW PREVENTION DEVICE PER THE OPEN SPACE LANDSCAPE PLANS PREPARED BY KLA INC
4	CONSTRUCT BLOW-OFF PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-9-1 AND B-9-2.	12	INSTALL WATER METER PER THE OPEN SPACE LANDSCAPE PLANS PREPARED BY KLA INC
5	REMOVE EXISTING BLOW-OFF.	13	CONNECT TO EXISTING NON-POTABLE WATER LINE.
6	CONSTRUCT WATER TIE-IN PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-6.	14	INSTALL 6" TO 3" REDUCER AT THE POINT OF CONNECTION.
7	CONSTRUCT WATER MAIN VERTICAL OFFSET PER CITY OF HOLLISTER STANDARD DETAIL B-10.	15	REFER TO THIRD STREET NON-POTABLE DETAIL, THIS SHEET.
8	CONSTRUCT AIR AND VACUUM COMBINATION RELEASE VALVE PER CITY OF SAN JUAN BAUTISTA STANDARD DETAIL B-8.		



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REFER TO SEPARATE IMPROVEMENT PLANS TITLED "RANCHO VISTA - FIRST STREET ROUNDABOUT PROJECT" FOR ADDITIONAL FIRST STREET IMPROVEMENTS

CONSTRUCTION NOTES

- USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOWALL IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

UTILITY LEGEND

	PROPOSED STORM DRAIN PIPE AND SIZE
	EXISTING STORM DRAIN LINE AND SIZE
	PROPOSED STORM DRAIN INLET
	PROPOSED STORM DRAIN MANHOLE
	EXISTING STORM DRAIN MANHOLE
	EXISTING CATCH BASIN
	EXISTING HEADWALL
	STORM DRAIN STRUCTURE IDENTIFIER

- KEY NOTES**
- CONSTRUCT STORM DRAIN INLET PER CITY OF HOLLISTER STANDARD DETAIL D-3-1.
 - CONSTRUCT TYPE 2 ECCENTRIC MANHOLE PER CITY OF HOLLISTER STANDARD DETAIL D-2-1.
 - CONSTRUCT 36" BOLT DOWN FRAME AND GRATE. FRAME SHALL BE NEENAH FOUNDRY MODEL R-1752 AND GRATE SHALL BE NEENAH FOUNDRY MODEL R-2251 (OR APPROVED EQUAL).
 - STORM DRAIN PIPELINE TO BE CAPPED WITH CONCRETE PER CONCRETE CAP DETAIL ON SHEET 27
 - INSTALL METAL FLARED END SECTION PER STATE STD. PLAN D94A.
 - INSTALL WATER TIGHT FRAME AND GRATE ON MANHOLE, PAMREX OR APPROVED EQUAL.
 - CONSTRUCT BASE OF MANHOLE STRUCTURE WITH 12" TOTAL LIP.
 - PLACE RIP-RAP AROUND BUBBLE-UP STRUCTURE.

RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.

DATE: JANUARY 8, 2021

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NO.	REVISIONS	DATE
1	SD REVISIONS	06.17
2	RET. WALL/SD REV.	07.17
3	SD REVISIONS	07.18
4	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
STORM DRAIN PLAN

SCALE: SCALE 1"=60'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 07_STRM.dwg
 SHEET: **7**
 OF **34** SHEETS

REFER TO SEPARATE IMPROVEMENT PLANS TITLED "RANCHO VISTA - FIRST STREET ROUNDABOUT PROJECT" FOR ADDITIONAL FIRST STREET IMPROVEMENTS


GROUNDWATER DRAIN LEGEND

3"GD PROPOSED PERFORATED GROUNDWATER DRAIN PIPE BENEATH CURB AND GUTTER PER DETAIL ON SHEET 2. PERFORATED DRAIN PIPE SHALL HAVE POSITIVE SLOPE AND MATCH PROPOSED STREET GRADE.

CONSTRUCTION NOTES

- ALL UTILITIES BENEATH THE BOX CULVERTS SOUTH OF THE LAVAGNINO DRIVE AND THIRD STREET INTERSECTION SHALL BE PLACED WITHIN STEEL CASING PIPE PER DETAIL ON SHEET 26.
- USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

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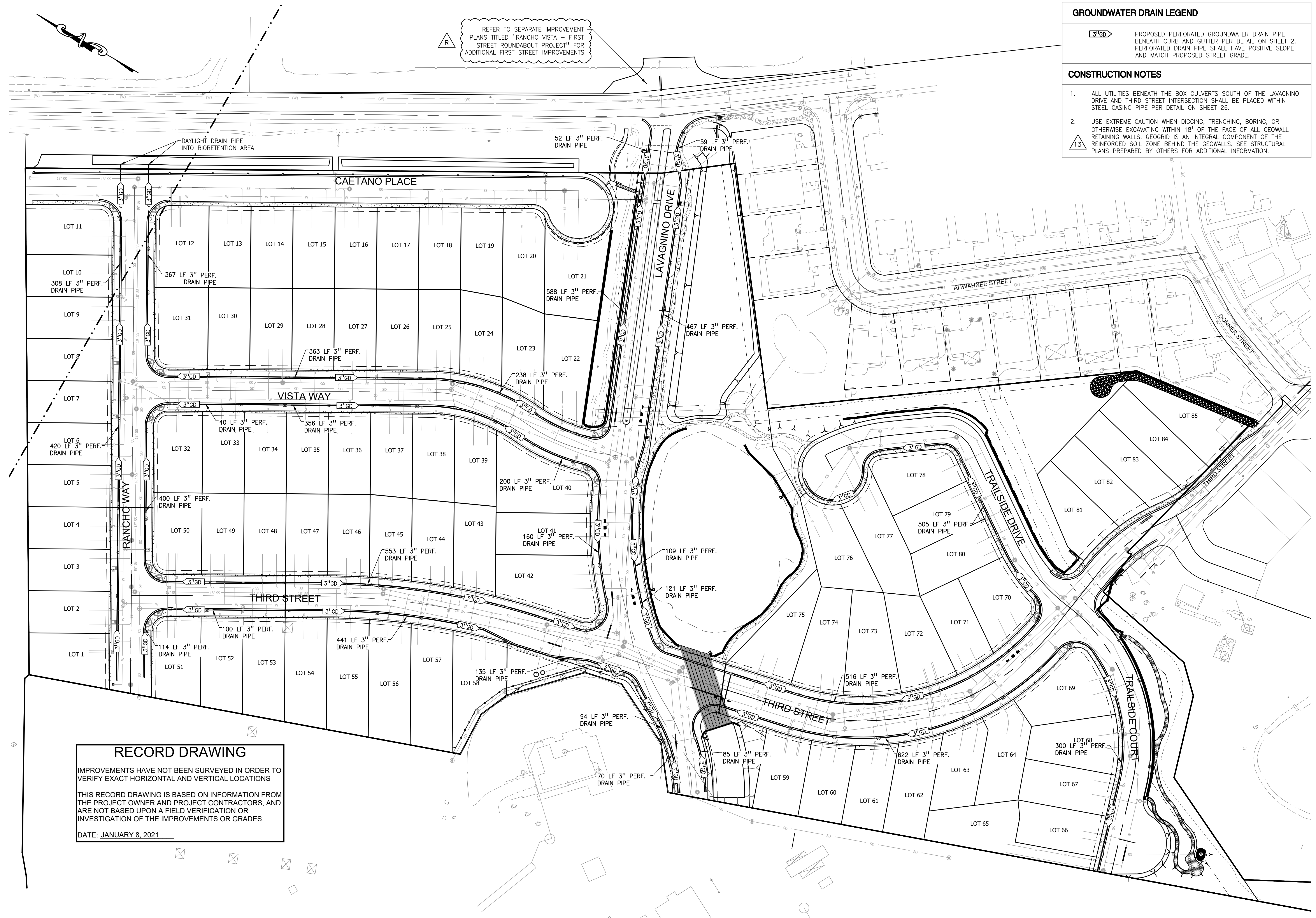
430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

NO.	REVISIONS	DATE
1	ADDED NOTES	07.18
2	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
GROUNDWATER DRAIN PLAN

SCALE: SCALE 1"=60'
DATE: 05 January 2021
JOB #: 113071
DWG: 08_GNDW.dwg
SHEET: **8**
OF **34** SHEETS



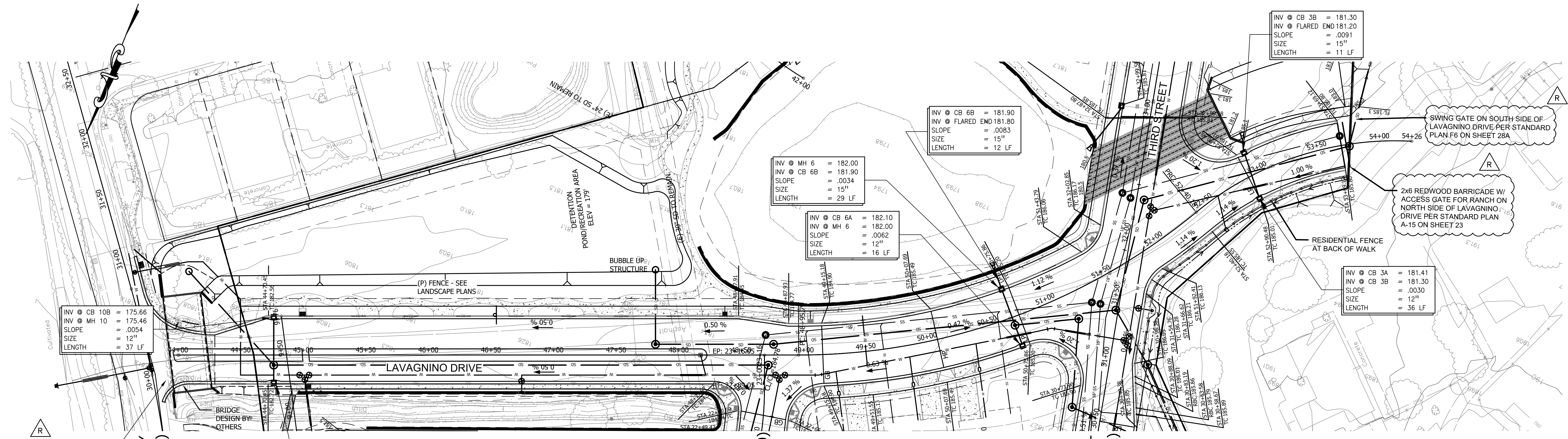
RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

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DATE: JANUARY 8, 2021

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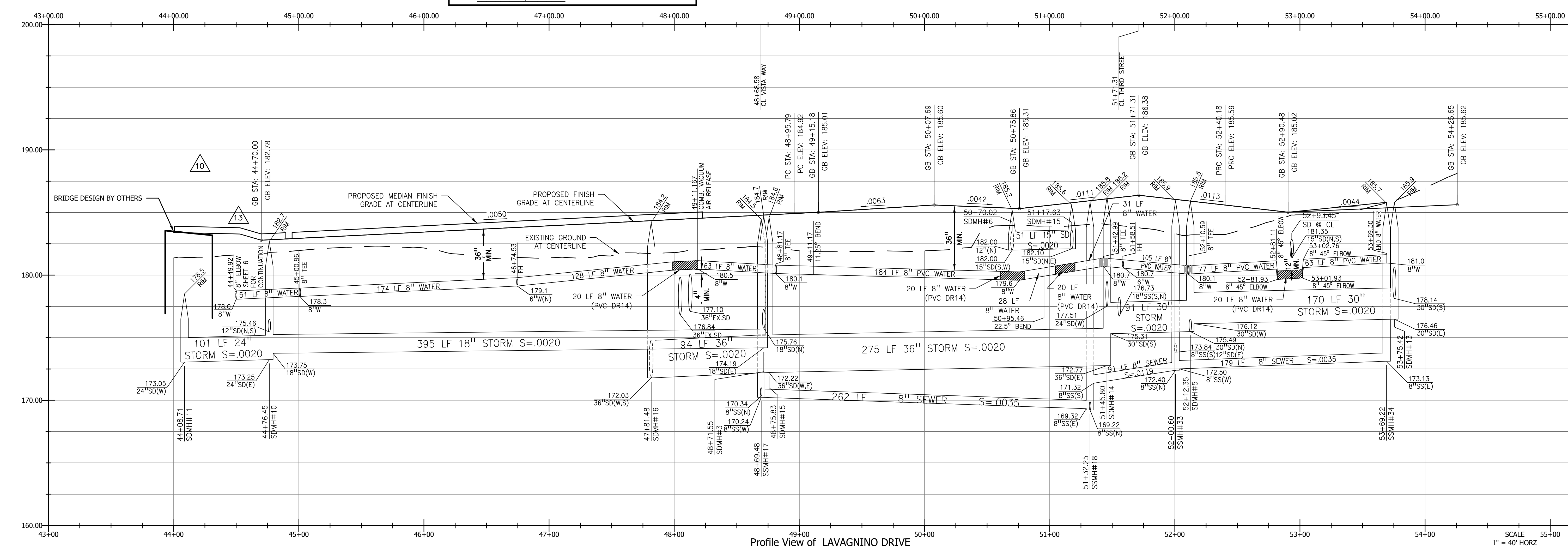


RECORD DRAWING
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 DATE: JANUARY 8, 2021

CONSTRUCTION NOTES

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NOTES:
 1. SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.



Profile View of LAVAGNINO DRIVE
 Station
 SCALE
 1" = 40' HORZ
 1" = 4' VERT

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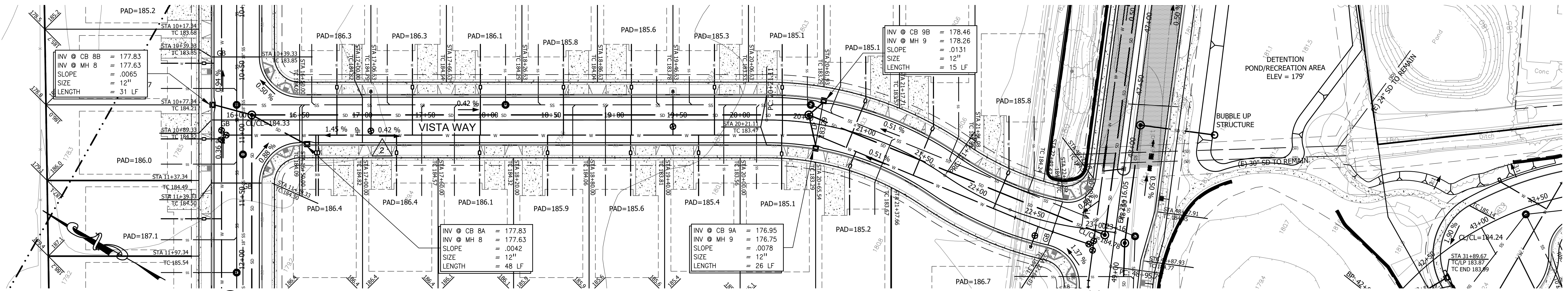
NO.	REVISIONS	DATE
1	WATER REVISIONS	11.17
2	WATER REVISIONS	07.18
3	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE LAVAGNINO DRIVE

SCALE: SCALE 1"=40'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 09_PNP.dwg
 SHEET: **9**
 OF **34** SHEETS

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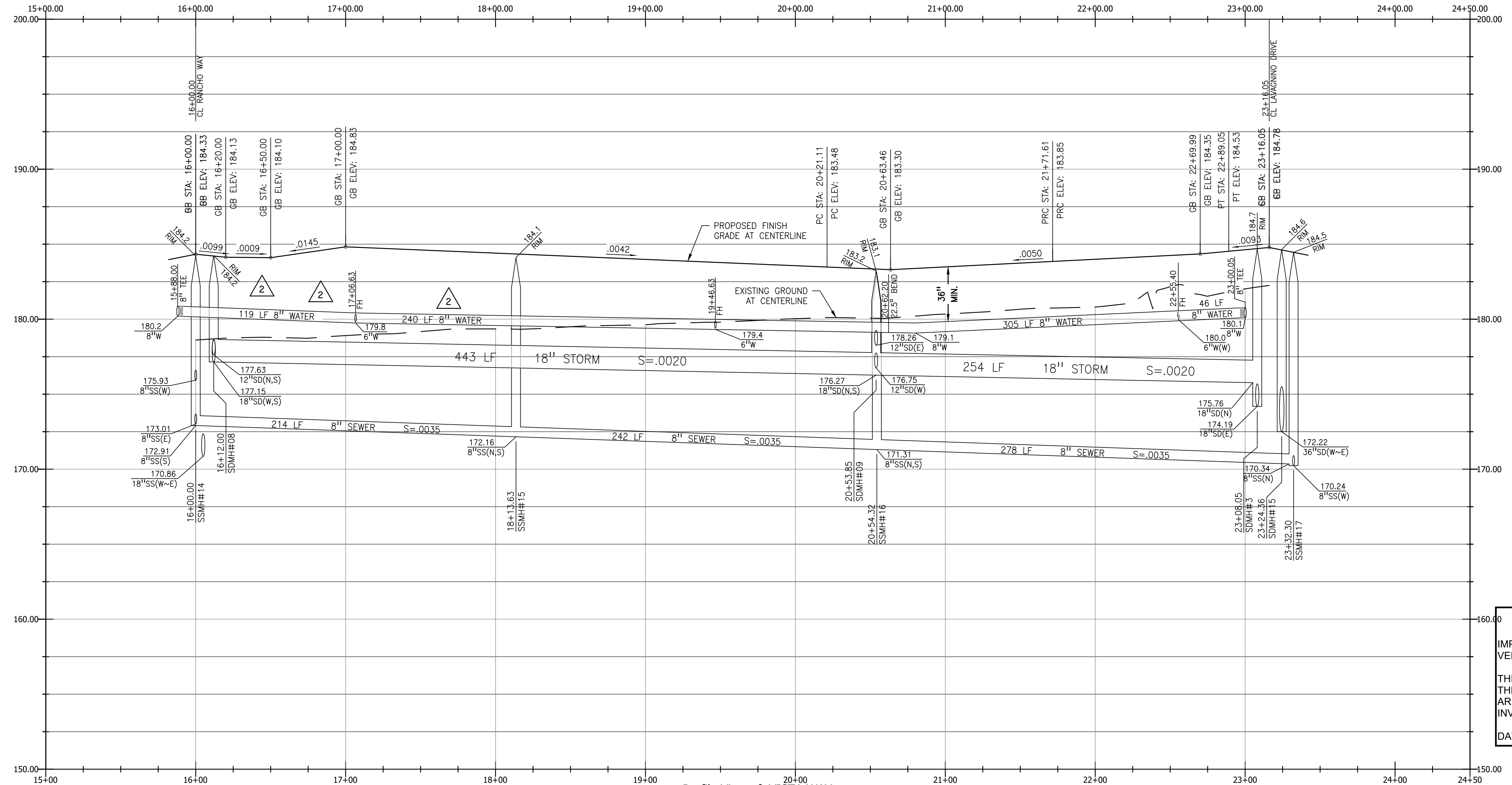
RANCHO WAY
(SEE SHEET 14)

VISTA WAY

LAVAGNINO DRIVE
(SEE SHEET 9)

CONSTRUCTION NOTES

- USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOWALL IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.



Profile View of VISTA WAY
Station

NOTES:

- SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.

RECORD DRAWING

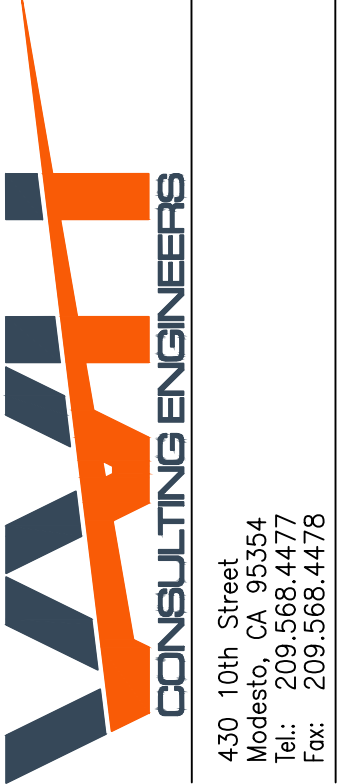
IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

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DATE: JANUARY 8, 2021

SCALE
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1" = 4' VERT

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NO.	REVISIONS	DATE
1	WATER REVISIONS	06/17
2	LOT 81-85 UTILITY REV	07/18
3	RECORD DRAWINGS	01/21

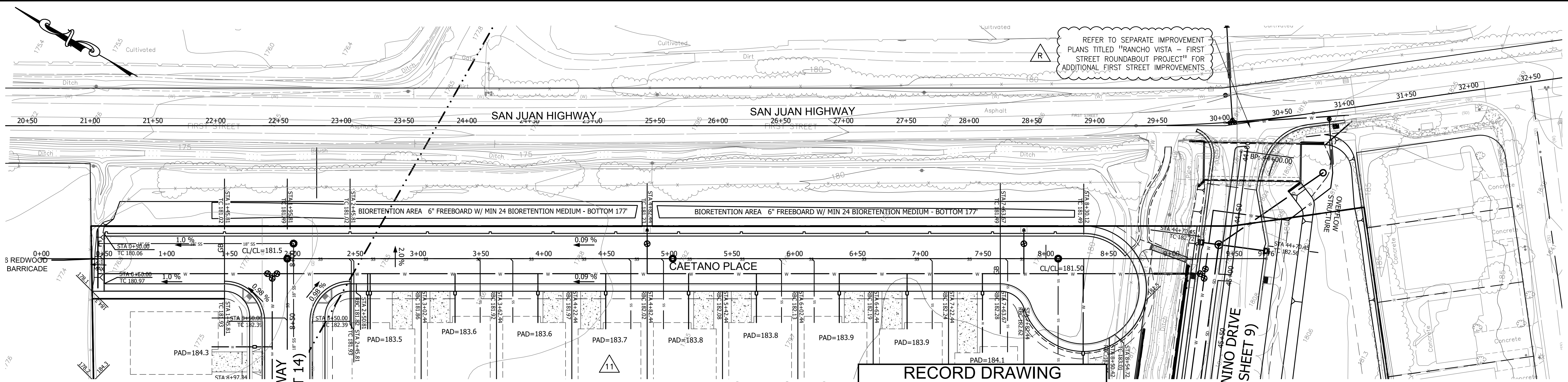
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
VISTA WAY

SCALE: SCALE 1"=40'
DATE: 05 January 2021
JOB #: 113071
DWG: 10_PNP.dwg

SHEET:	10
OF	34 SHEETS

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CONSTRUCTION NOTES

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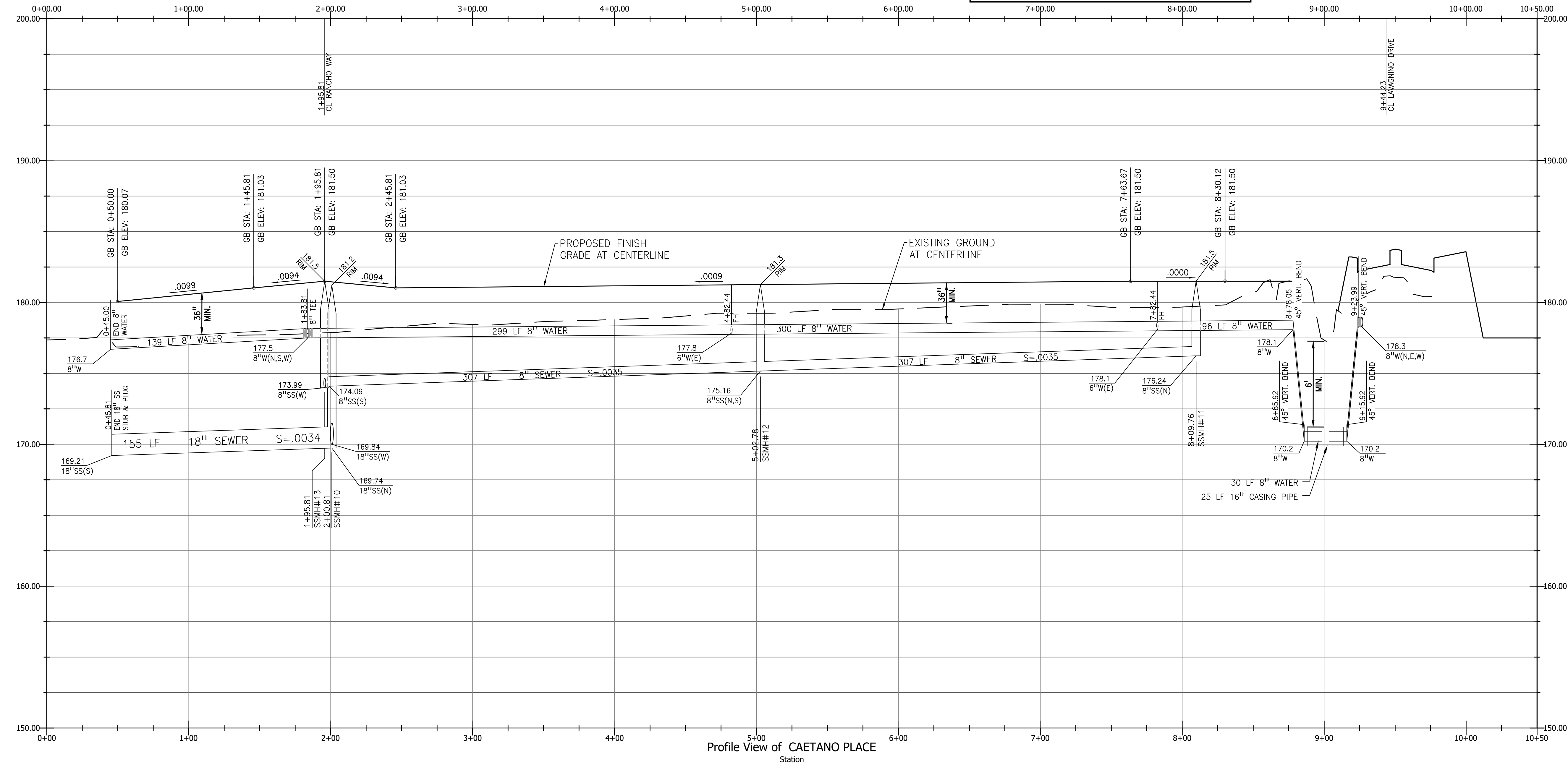
RECORD DRAWING

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DATE: JANUARY 8, 2021

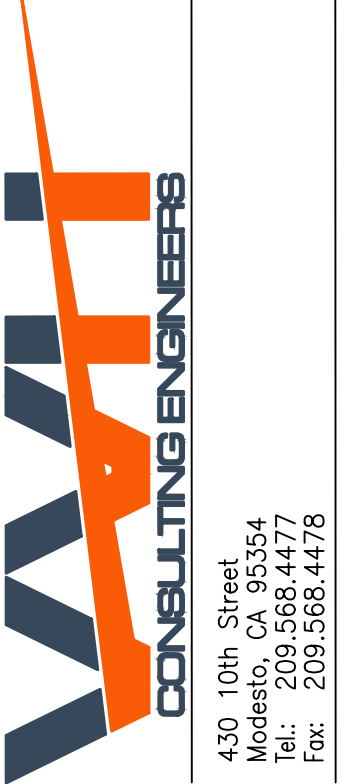
- NOTES:**
- SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.
 - WATER PIPE LENGTHS SHOWN DO NOT INCLUDE PIPES BETWEEN VERTICAL BENDS FOR WIDER UNDER CROSSING OF JURISDICTIONAL WATERWAY.



Profile View of CAETANO PLACE
Station

SCALE
1" = 40' HORZ
1" = 4' VERT

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NO.	REVISIONS	DATE
1	CURB REVISIONS	11.17
2	ADDED NOTES	07.18
3	RECORD DRAWINGS	01.21

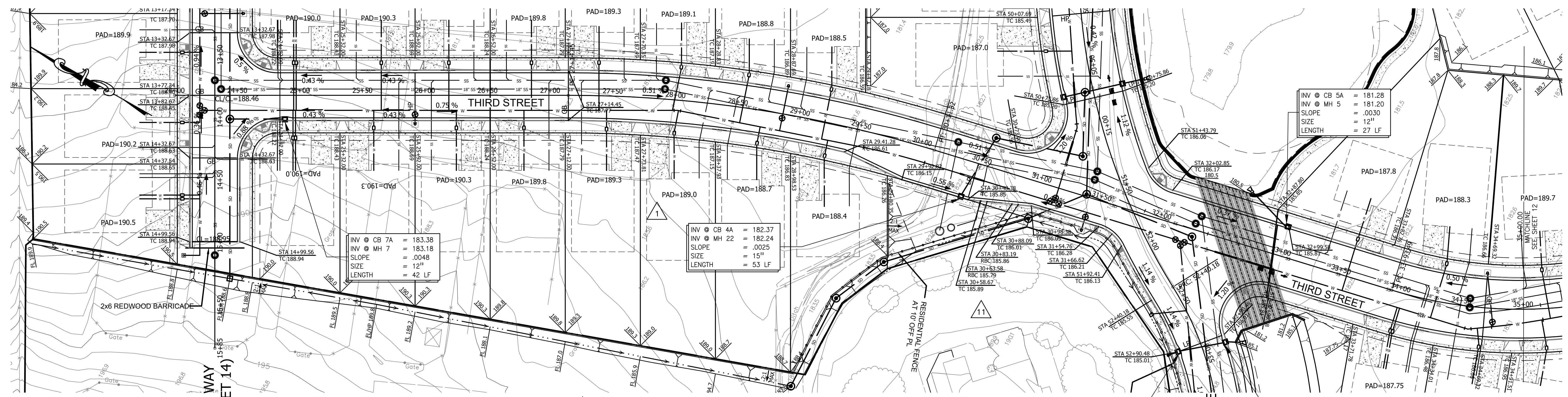
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
CAETANO PLACE

SCALE: SCALE 1"=40'
DATE: 05 January 2021
JOB #: 113071
DWG: 11_PNP.dwg

SHEET: **11**
OF **34** SHEETS

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CONSTRUCTION NOTES

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RECORD DRAWING

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DATE: JANUARY 8, 2021

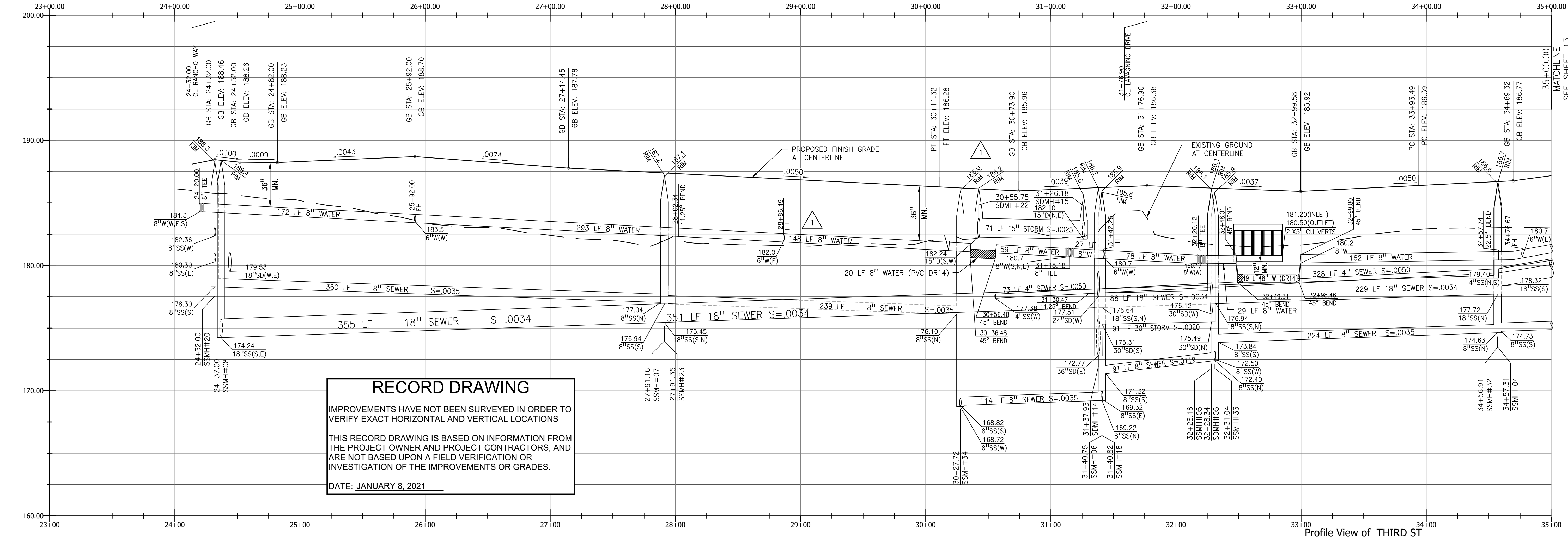
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 INV @ MH 5 = 181.20
 SLOPE = .0030
 SIZE = 12"
 LENGTH = 27 LF

INV @ CB 4A = 182.37
 INV @ MH 22 = 182.24
 SLOPE = .0025
 SIZE = 15"
 LENGTH = 53 LF

INV @ CB 3A = 181.41
 INV @ CB 3B = 181.30
 SLOPE = .0030
 SIZE = 12"
 LENGTH = 36 LF

INV @ CB 3B = 181.30
 INV @ FLARED END 181.20
 SLOPE = .0091
 SIZE = 15"
 LENGTH = 11 LF

NOTE:
 1. SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.



Profile View of THIRD ST Station

SCALE
 1" = 40' HORIZ
 1" = 4' VERT

The Contractor shall verify and be responsible for the accuracy of all data shown on these drawings. Any errors or omissions shall be reported to WJCE without delay. WJCE shall not be responsible for any errors or omissions in the drawings or the property of WJCE. WJCE shall not be responsible for any errors or omissions in the drawings or the property of WJCE. WJCE shall not be responsible for any errors or omissions in the drawings or the property of WJCE. WJCE shall not be responsible for any errors or omissions in the drawings or the property of WJCE.



NO.	REVISIONS	DATE
1	SD, WATER REVISIONS	06.17
2	CURB REVISIONS	11.17
3	ADDED NOTES	07.18
4	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
THIRD STREET

SCALE: SCALE 1"=40'
 DATE: 08 January 2021
 JOB #: 113071
 DWG: 12_PNP.dwg

SHEET: **12**
 OF **34** SHEETS

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The Contractor shall verify and be responsible for the accuracy of all field data and utility locations shown on these drawings. Any errors or omissions shall be reported to WACE without delay. WACE is not responsible for any errors or omissions in the field data or utility locations shown on these drawings or the property of WACE. WACE is not responsible for any errors or omissions in the field data or utility locations shown on these drawings for any purpose other than that authorized in writing by WACE. WACE is not authorized to be used for construction until sealed, signed and dated by the Engineer.



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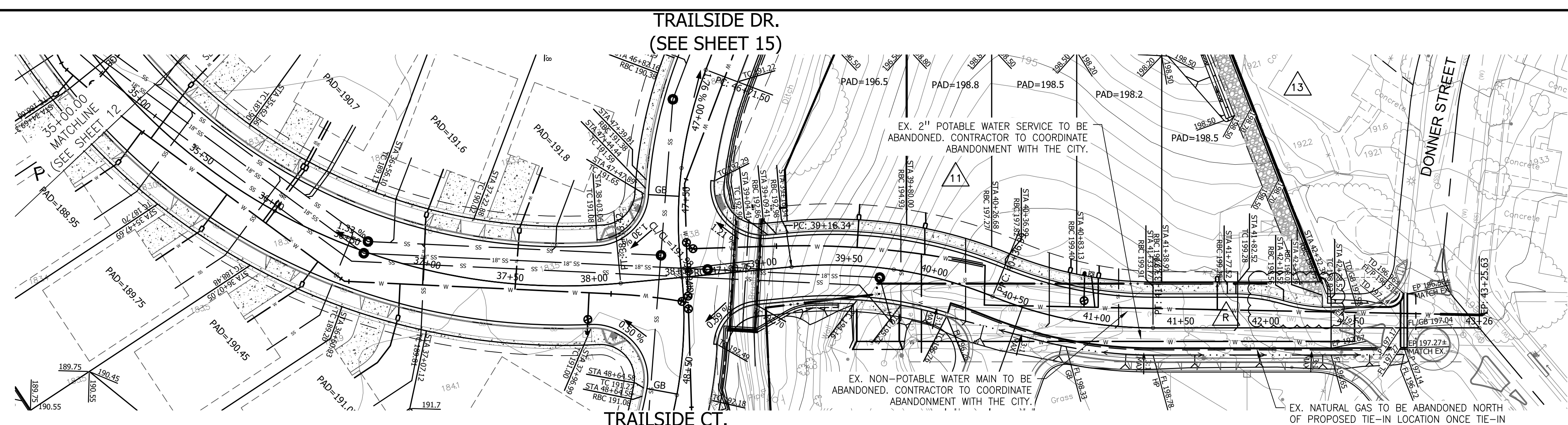
NO.	REVISIONS	DATE
1	CURB REVISIONS	11.17
2	LOT 81-85 UTILITY REV	07.18
3	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
THIRD STREET

SCALE: SCALE 1"=40'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 13 PNP.dwg

SHEET: **13**
 OF **34** SHEETS



- NOTE:
- SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.
 - CONTRACTOR TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. IF ELEVATIONS AND/OR LOCATIONS DIFFER FROM THAT SHOWN ON THESE PLANS, PROVISION TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTES

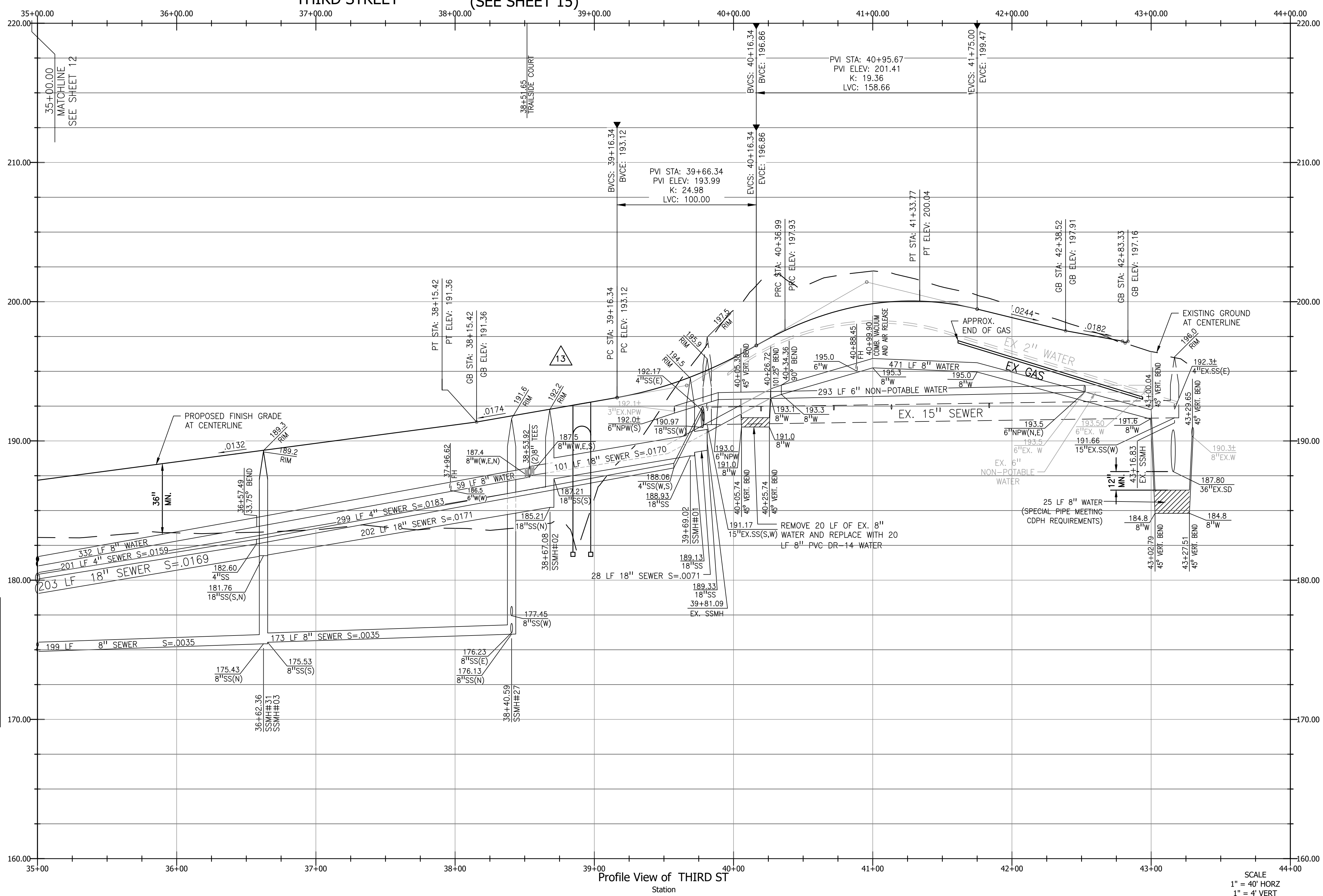
- USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

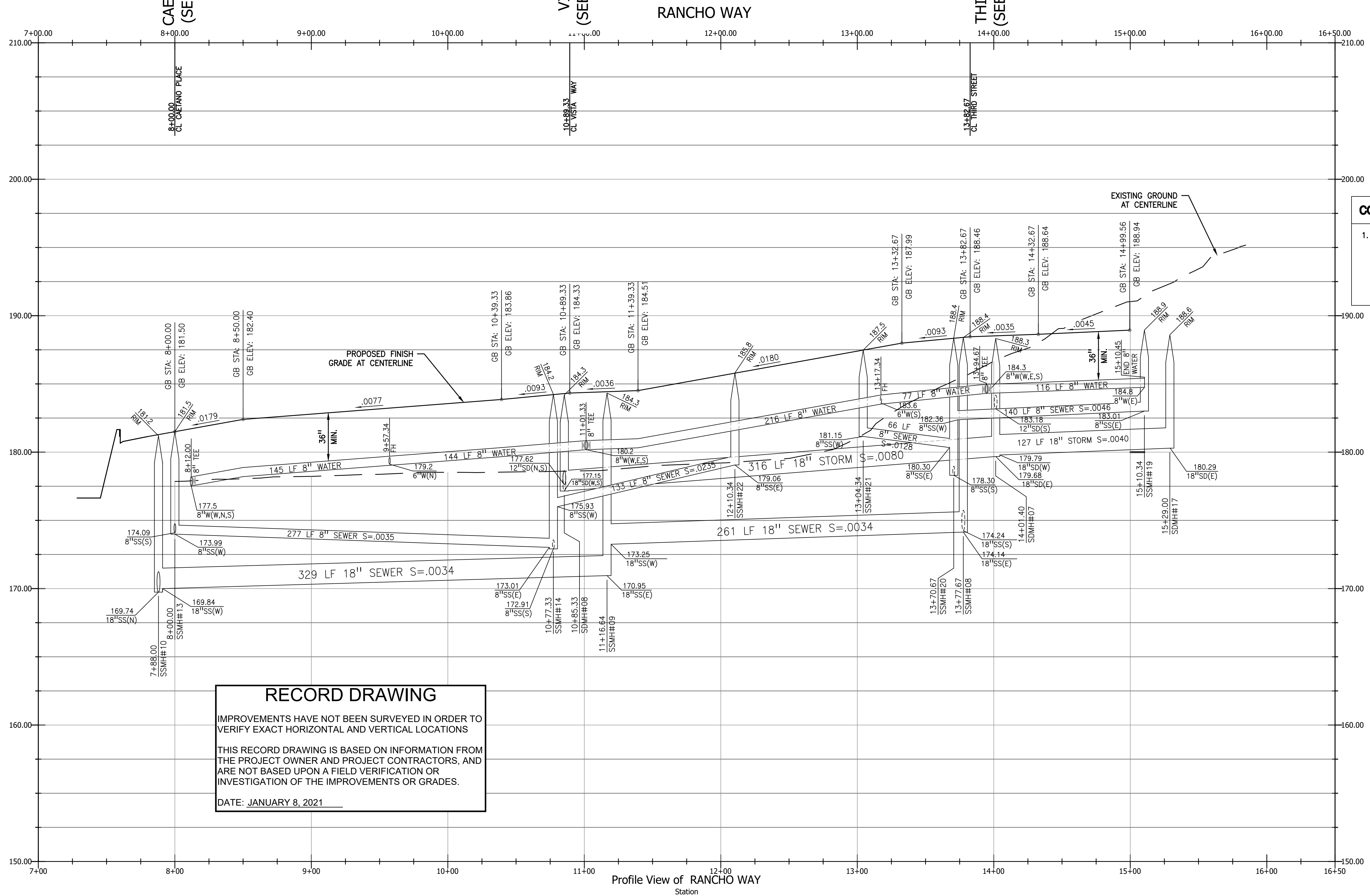
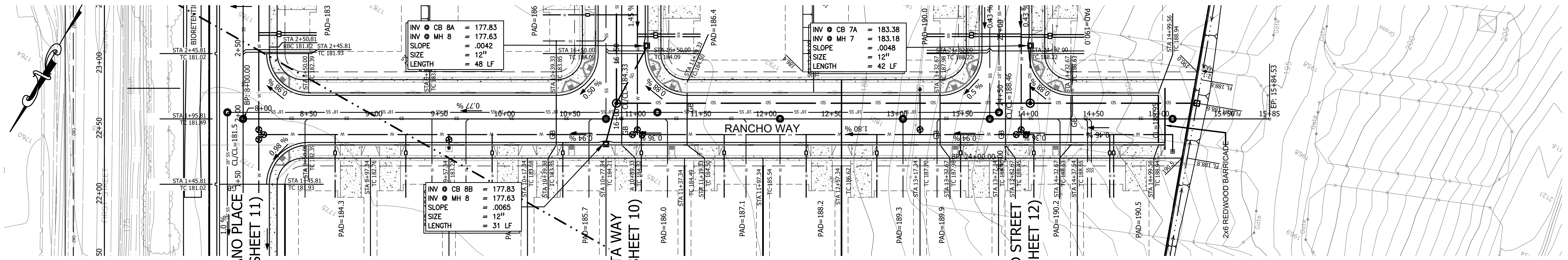
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DATE: JANUARY 8, 2021



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 DATE: JANUARY 8, 2021

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CONSTRUCTION NOTES
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NO.	REVISIONS	DATE
1	ADDED NOTES	07.18
2	RECORD DRAWINGS	01.21

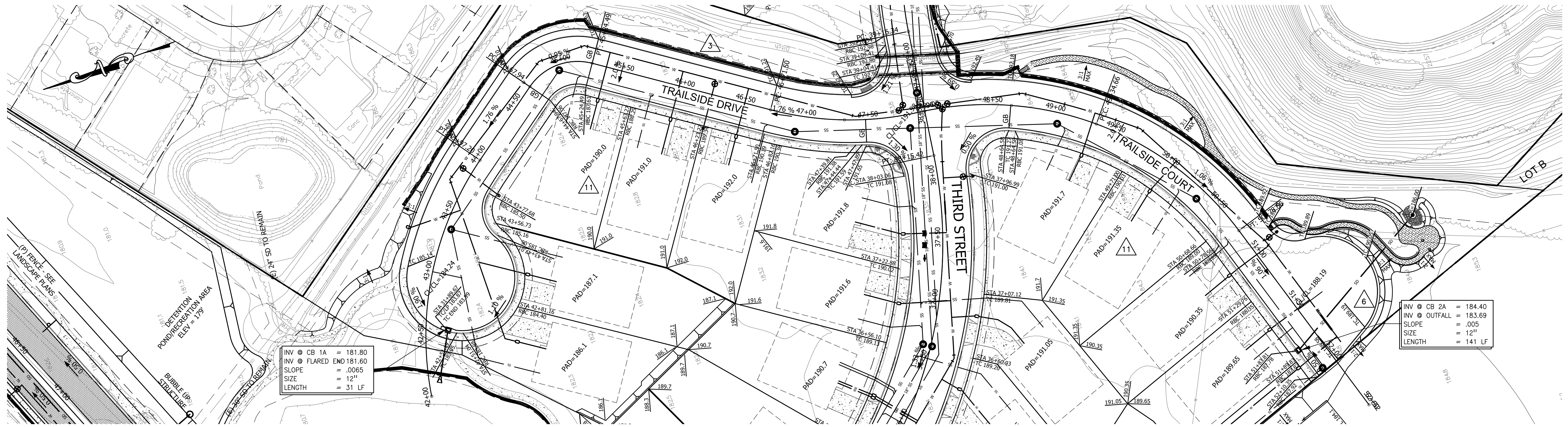
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
RANCHO WAY

SCALE: SCALE 1"=40'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 14_PNP.dwg

SHEET:	14
OF	34 SHEETS

SCALE
 1" = 40' HORIZ
 1" = 4' VERT



CONSTRUCTION NOTES

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RECORD DRAWING

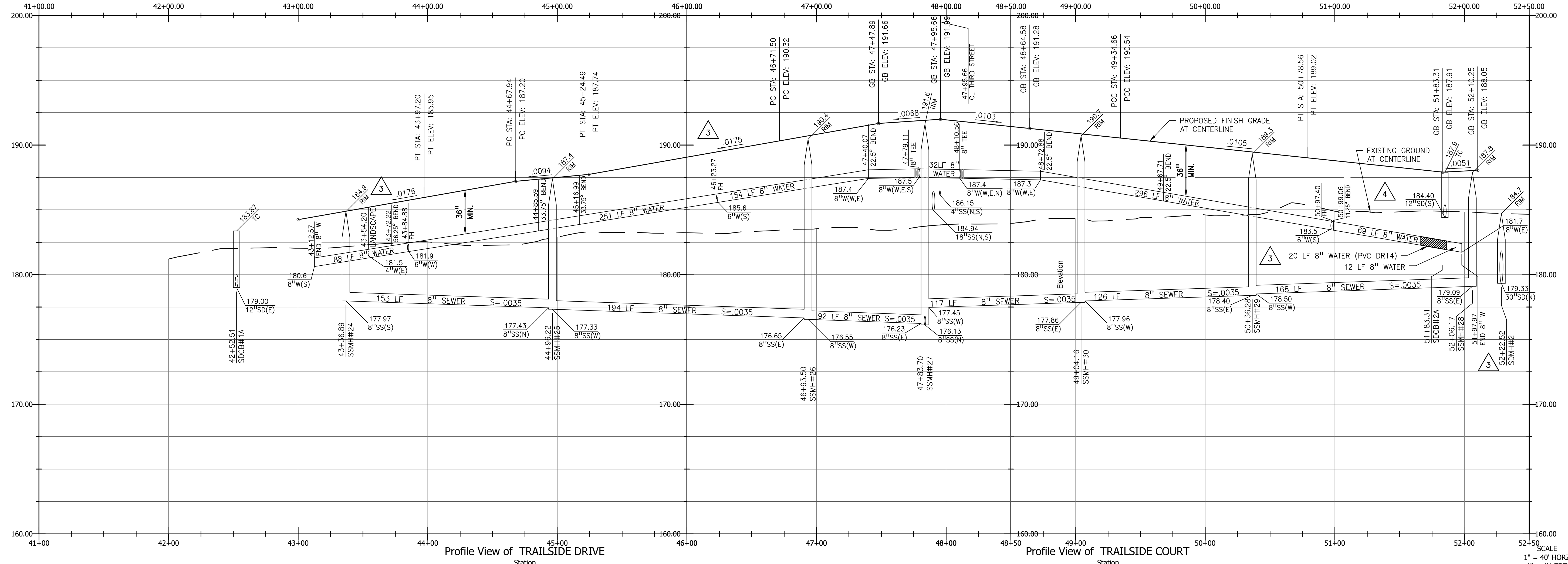
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DATE: JANUARY 8, 2021

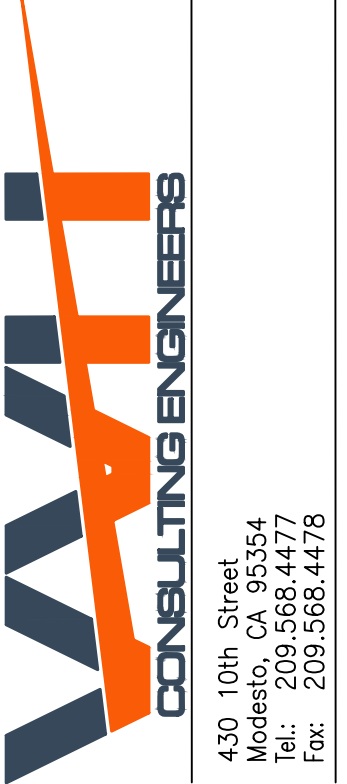
NOTES:

1. SANITARY SEWER AND WATER SERVICES NOT PROFILED FOR CLARITY.



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NO.	REVISIONS	DATE
1	WATER REVISIONS	07.17
2	RET. WALL/SD REV.	07.17
3	CURB REVISIONS	11.17
4	ADDED NOTES	07.18
5	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
PLAN & PROFILE
TRAILSIDE COURT & DRIVE

SCALE: SCALE 1"=40'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 15_PNP.dwg

SHEET: **15**
 OF **34** SHEETS

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SHEET VOIDED

13

RECORD DRAWING

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DATE: JANUARY 8, 2021

SCALE: SCALE 1"=40'

DATE: 05 January 2021

JOB #: 113071

DWG: 16_PNP.dwg

SHEET: **16**

OF **34** SHEETS

IMPROVEMENT PLAN

PLAN & PROFILE

SAN JUAN HIGHWAY

CITY OF SAN JUAN BAUTISTA

RANCHO VISTA

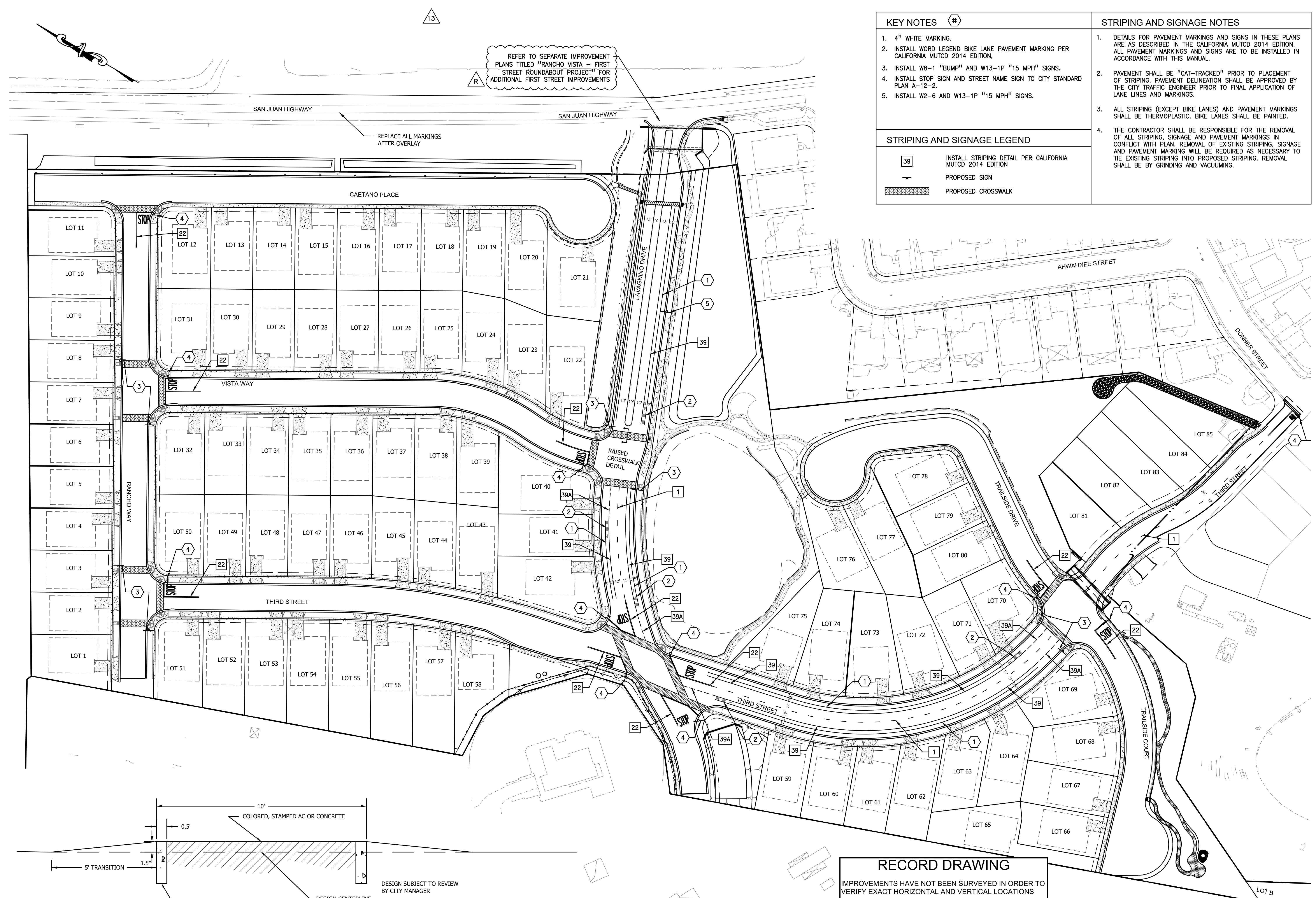
SAN BENITO COUNTY, CALIFORNIA

NO.	REVISIONS	DATE
1	SHEET REMOVED	07.18
2	RECORD DRAWINGS	01.21




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* FILE NAME: W:\10130600\civil\design\drawing\sheet_files\record_drawing\17_STRIPPE.dwg * Plotted on: Tuesday, 05 January 2021 at 2:21pm by: STU *



KEY NOTES #	STRIPING AND SIGNAGE NOTES
<ol style="list-style-type: none"> 4" WHITE MARKING. INSTALL WORD LEGEND BIKE LANE PAVEMENT MARKING PER CALIFORNIA MUTCD 2014 EDITION, INSTALL W8-1 "BUMP" AND W13-1P "15 MPH" SIGNS. INSTALL STOP SIGN AND STREET NAME SIGN TO CITY STANDARD PLAN A-12-2. INSTALL W2-6 AND W13-1P "15 MPH" SIGNS. 	<ol style="list-style-type: none"> DETAILS FOR PAVEMENT MARKINGS AND SIGNS IN THESE PLANS ARE AS DESCRIBED IN THE CALIFORNIA MUTCD 2014 EDITION. ALL PAVEMENT MARKINGS AND SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH THIS MANUAL. PAVEMENT SHALL BE "CAT-TRACKED" PRIOR TO PLACEMENT OF STRIPING. PAVEMENT DELINEATION SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION OF LANE LINES AND MARKINGS. ALL STRIPING (EXCEPT BIKE LANES) AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC. BIKE LANES SHALL BE PAINTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING, SIGNAGE AND PAVEMENT MARKINGS IN CONFLICT WITH PLAN. REMOVAL OF EXISTING STRIPING, SIGNAGE AND PAVEMENT MARKING WILL BE REQUIRED AS NECESSARY TO TIE EXISTING STRIPING INTO PROPOSED STRIPING. REMOVAL SHALL BE BY GRINDING AND VACUUMING.
STRIPING AND SIGNAGE LEGEND	
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">39</div> <div>INSTALL STRIPING DETAIL PER CALIFORNIA MUTCD 2014 EDITION</div> </div>	
<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></div> <div>PROPOSED SIGN</div> </div>	
<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #cccccc; border: 1px solid black; margin-right: 5px;"></div> <div>PROPOSED CROSSWALK</div> </div>	

The Contractor shall verify and be responsible for the accuracy of all data used in this drawing. Any errors or omissions shall be reported to WJCE without delay. WJCE is not responsible for any errors or omissions in drawings or the property of WJCE. WJCE is not responsible for any errors or omissions in drawings or the property of WJCE. WJCE is not responsible for any errors or omissions in drawings or the property of WJCE.



430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

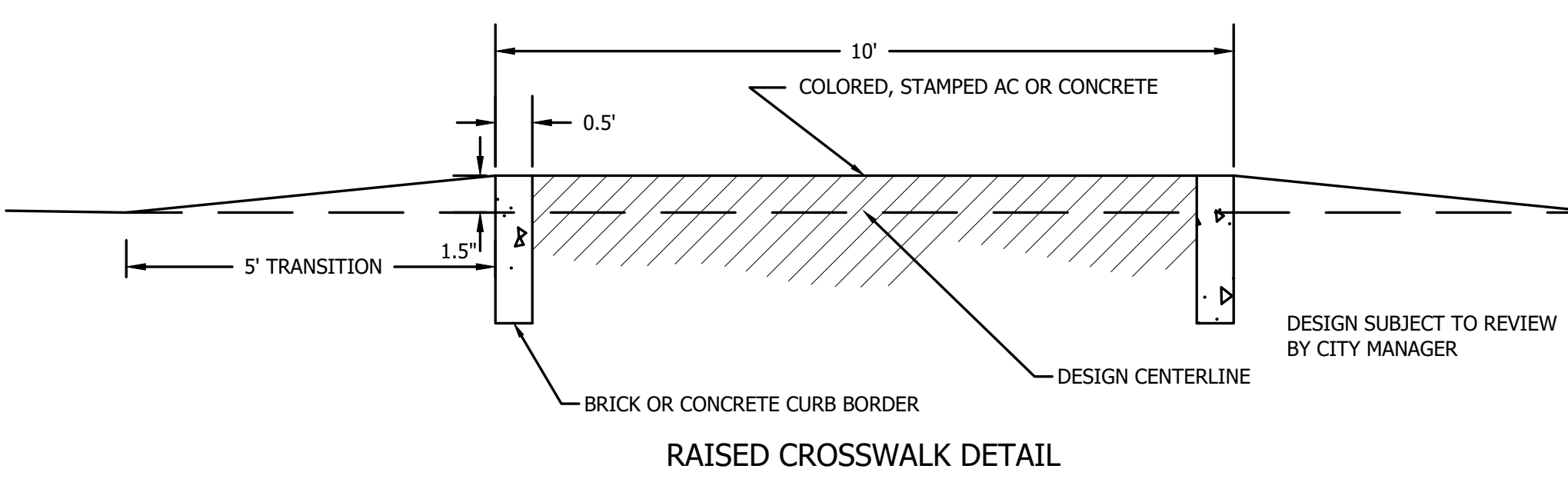
NO.	REVISIONS	DATE
1	STRIPING REVISION	07.18
2	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
SIGNAGE & STRIPING PLAN
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
SIGNAGE & STRIPING PLAN
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

SCALE: SCALE 1"=60'
DATE: 05 January 2021
JOB #: 113071
DWG: 17_STRIPPE.dwg

SHEET:	17
OF	34 SHEETS

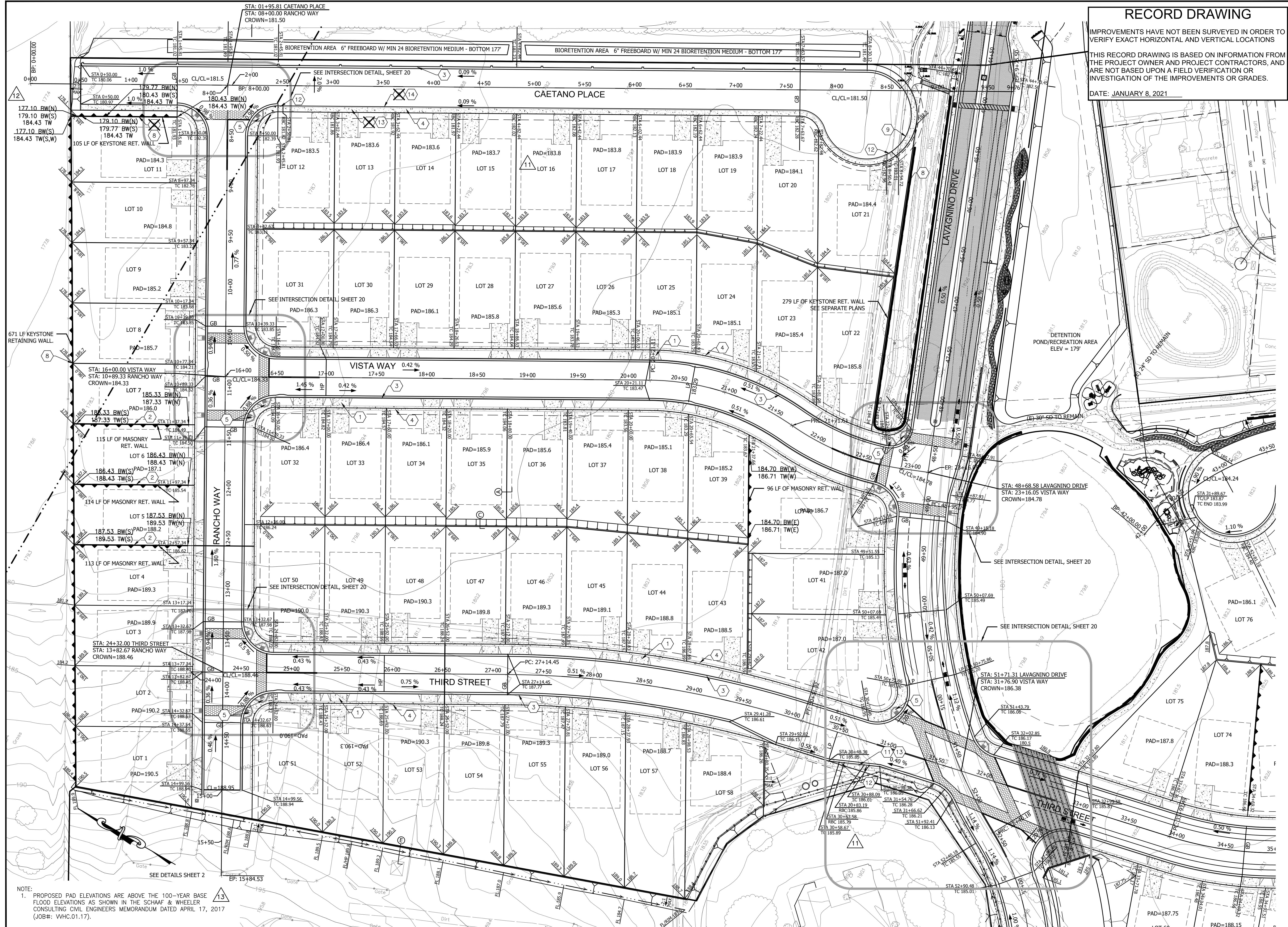


RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.

DATE: JANUARY 8, 2021



RECORD DRAWING

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DATE: JANUARY 8, 2021

The Contractor shall verify and be responsible for the accuracy of the field data used in this drawing. Any errors or omissions shall be reported to WHCC without delay. The Engineer shall not be responsible for any errors or omissions in the field data or for any purpose other than that authorized in writing by WHCC in a separate contract. The Engineer is not responsible for construction until sealed, signed and dated by the Engineer.



NO.	REVISIONS	DATE
11	CURB REVISIONS	11.17
12	LOT 11 WALL REVS	12.17
R	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA

RANCHO VISTA

SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN

GRADING PLAN

SCALE: SCALE 1"=40'

DATE: 05 January 2021

JOB #: 113071

DWG: 18 GRAD.dwg

SHEET: **18**

OF **34** SHEETS

NOTE: 1. PROPOSED PAD ELEVATIONS ARE ABOVE THE 100-YEAR BASE FLOOD ELEVATIONS AS SHOWN IN THE SCHAFF & WHEELER CONSULTING CIVIL ENGINEERS MEMORANDUM DATED APRIL 17, 2017 (JOB#: WHC.01.17).

FILE NAME: W:\10130600\civil\design\sheet_files\record_drawing\18_GRAD.dwg * Plotted on: Tuesday, 05 January 2021, at 2:22pm by: SYU *

The Contractor shall verify and be responsible for the accuracy of all data shown on this drawing. Any errors or omissions shall be reported to WHICE without delay. WHICE shall not be held responsible for any errors or omissions on drawings or the property of WHICE. WHICE is not authorized to be used for any purpose other than that authorized in writing by WHICE. WHICE is not authorized to be used for construction until sealed, signed and dated by the Engineer.

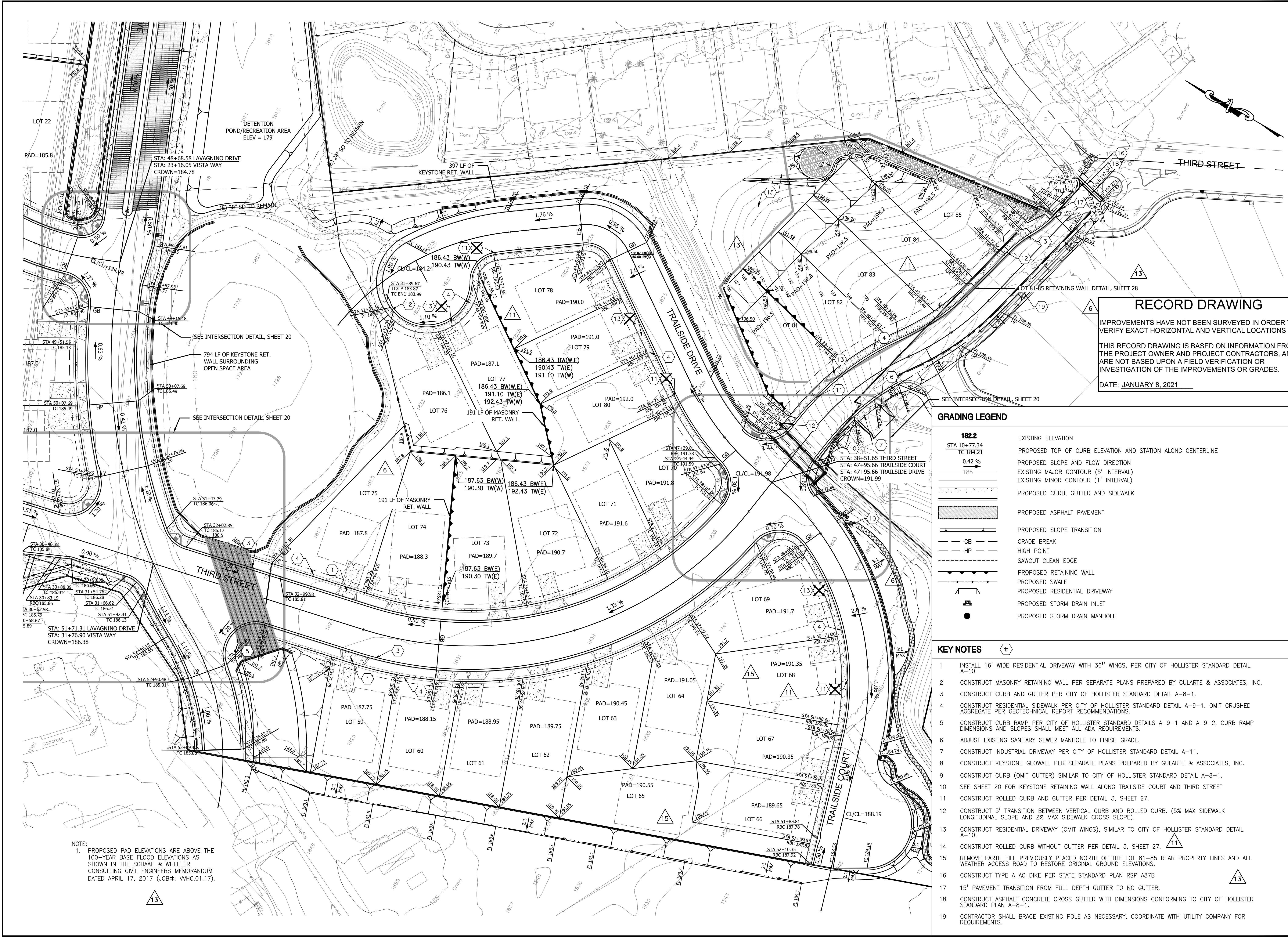


NO.	REVISIONS	DATE
1	RET. WALL/SD REV.	07.17
2	CURB REVISIONS	11.17
3	GRADING REVISIONS	07.18
4	GRADING REVISIONS	06.19
5	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
GRADING PLAN

SCALE: SCALE 1"=40'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 19 GRAD.dwg
 SHEET: **19**
 OF **34** SHEETS



RECORD DRAWING
 IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS
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 DATE: JANUARY 8, 2021

GRADING LEGEND

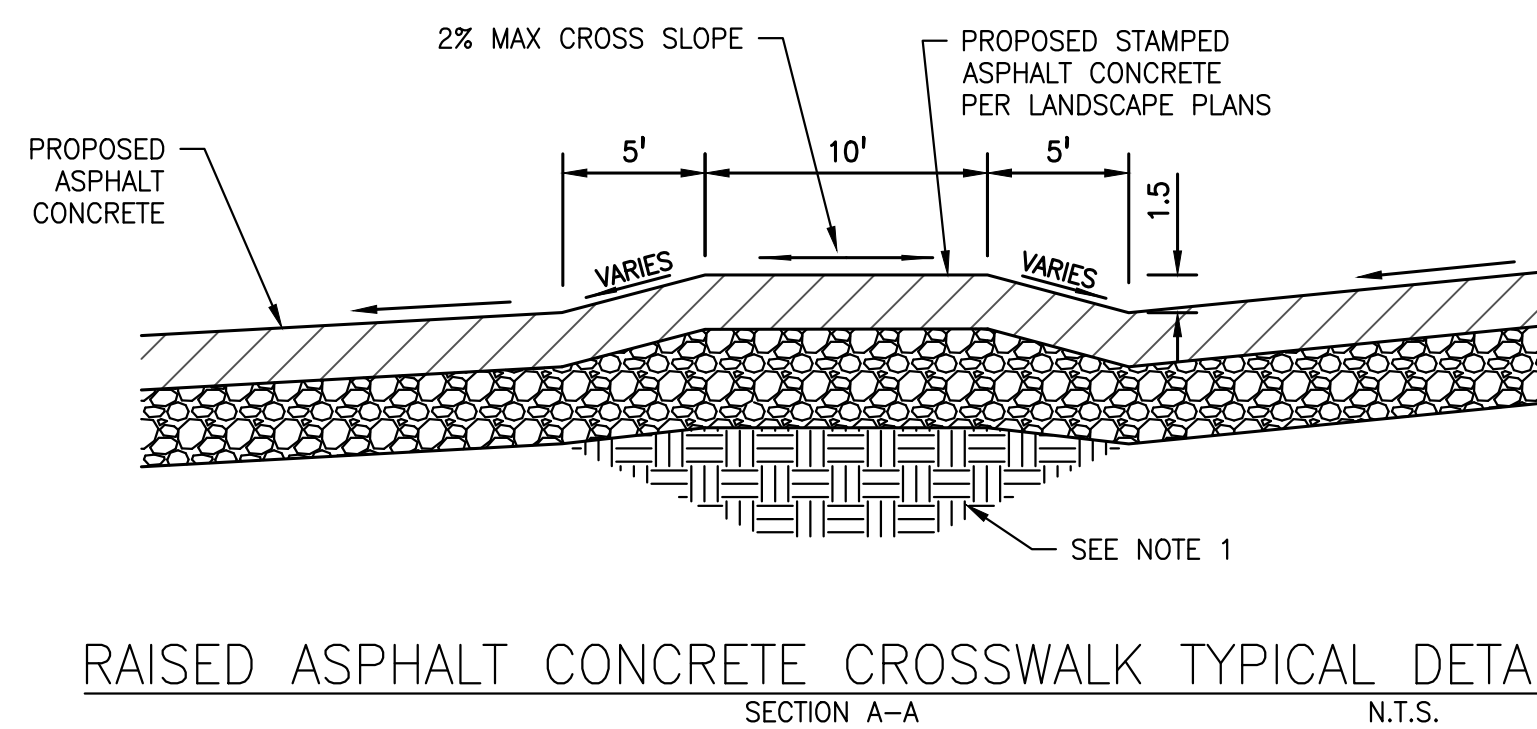
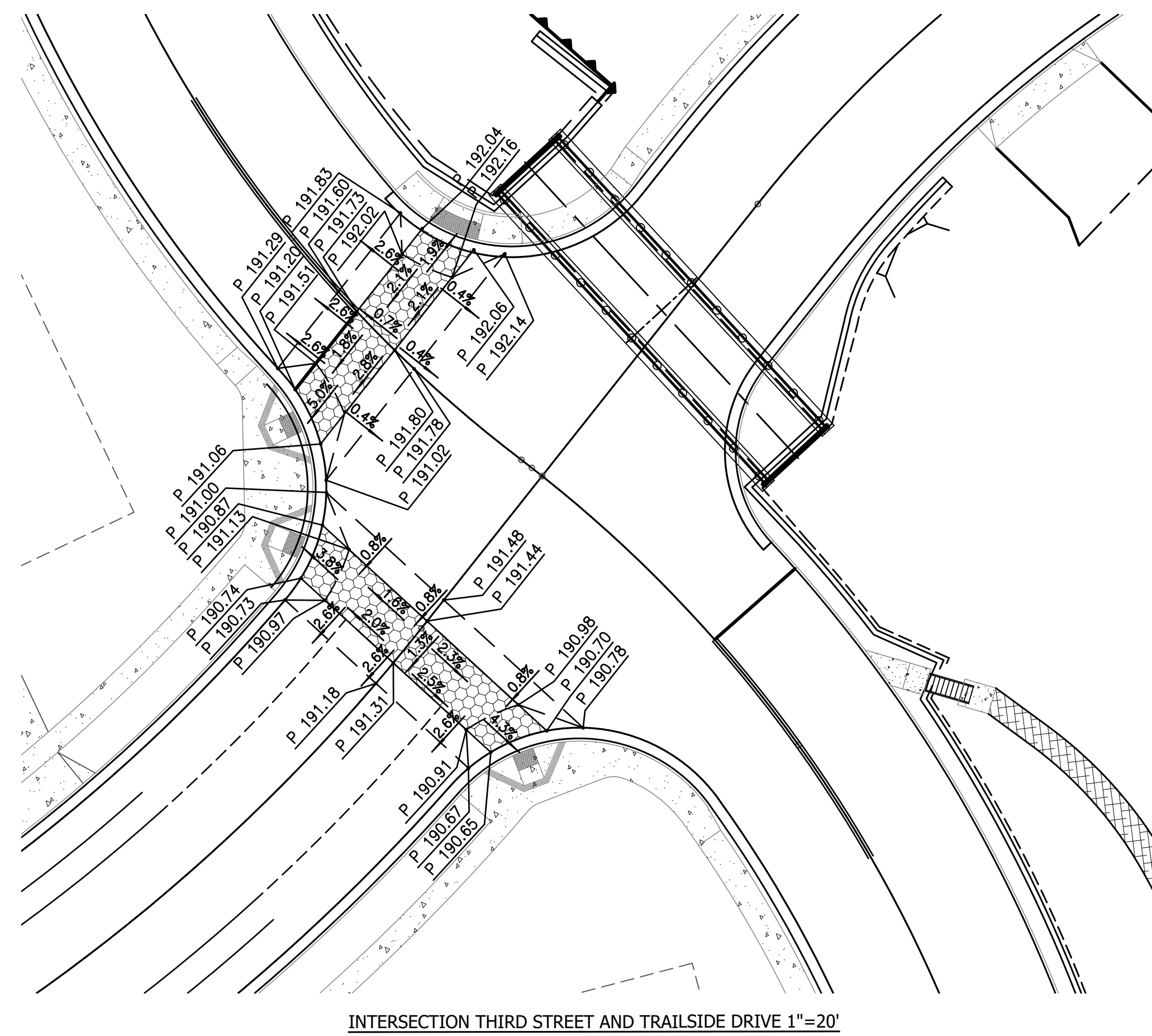
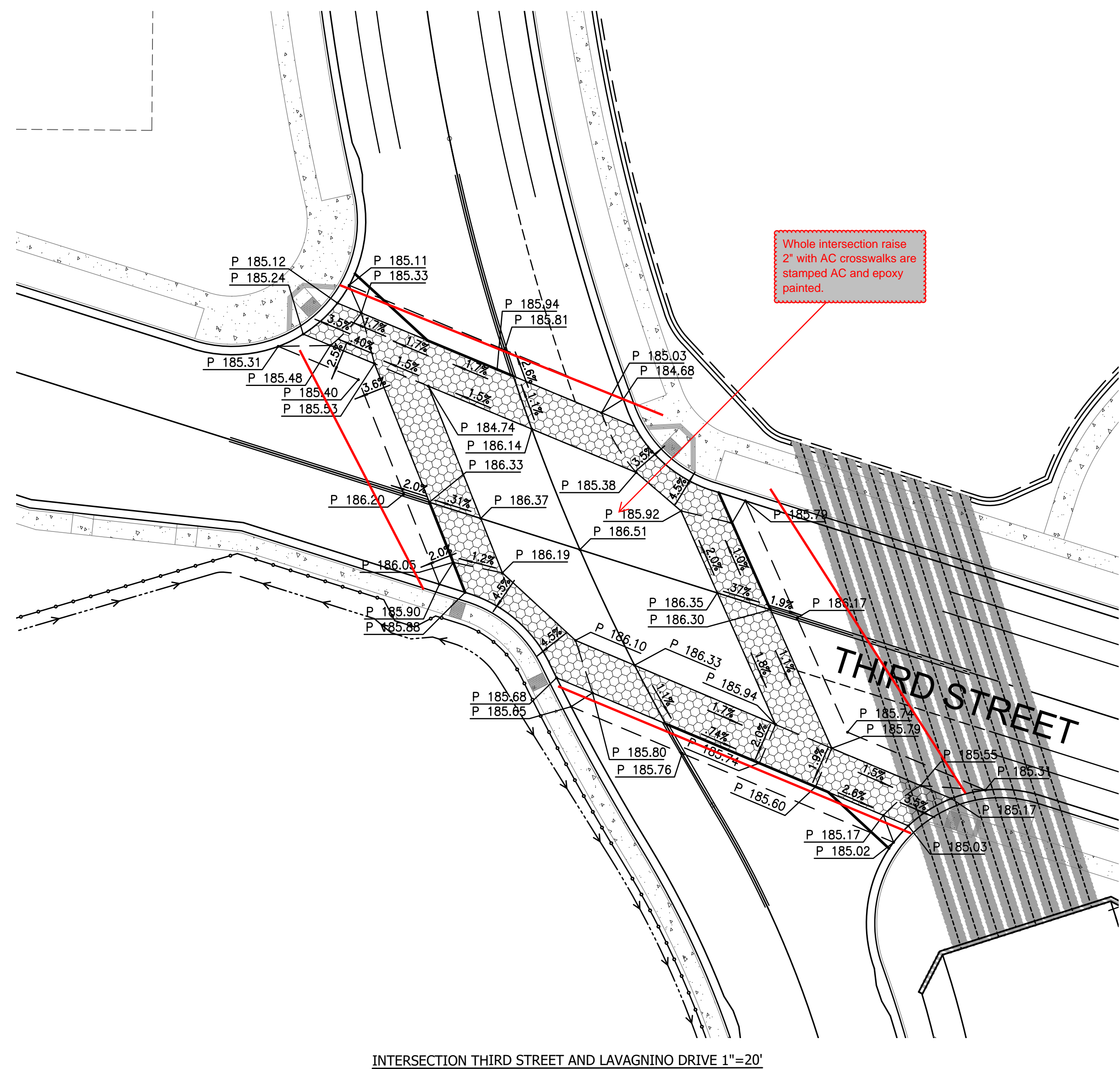
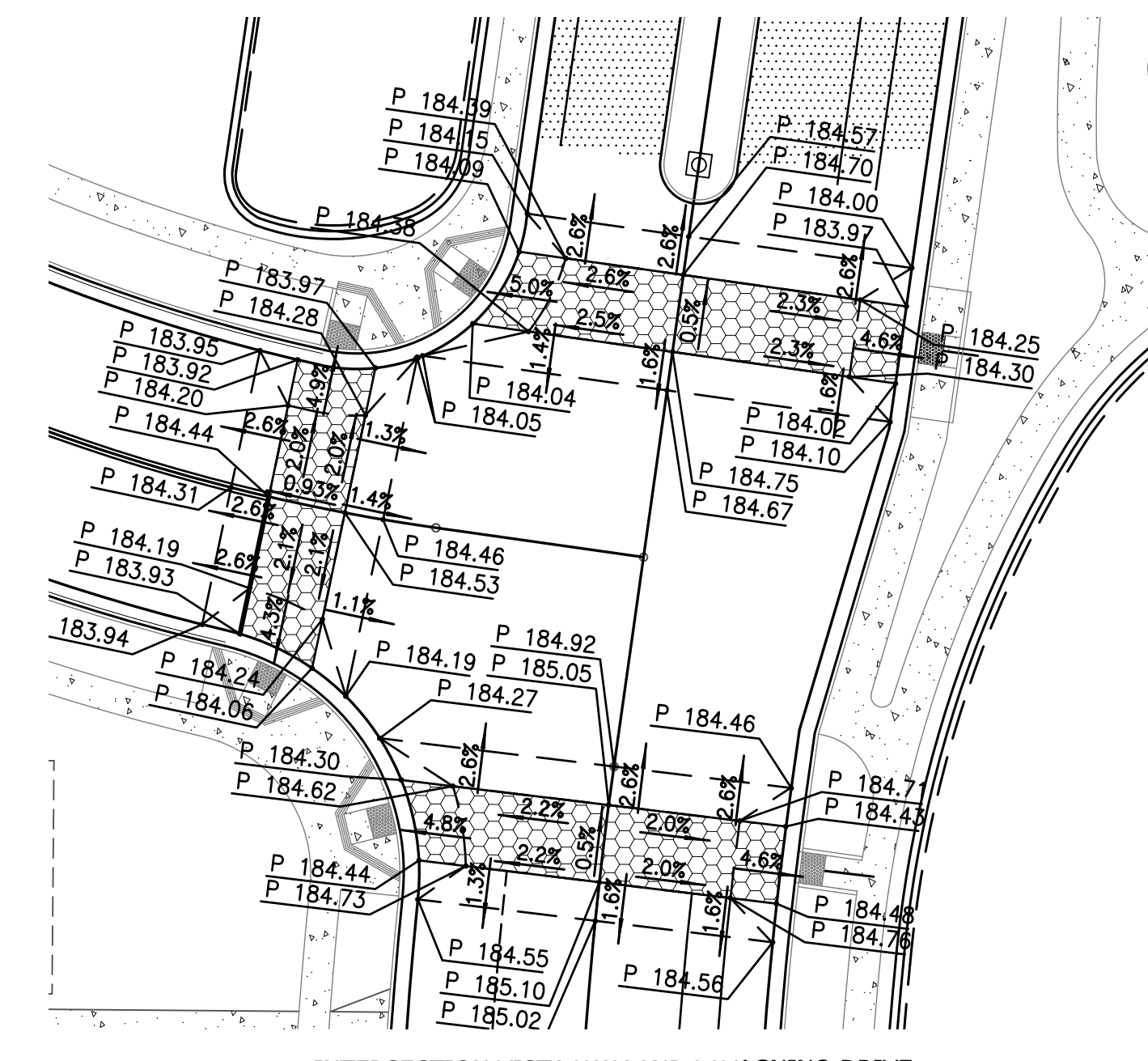
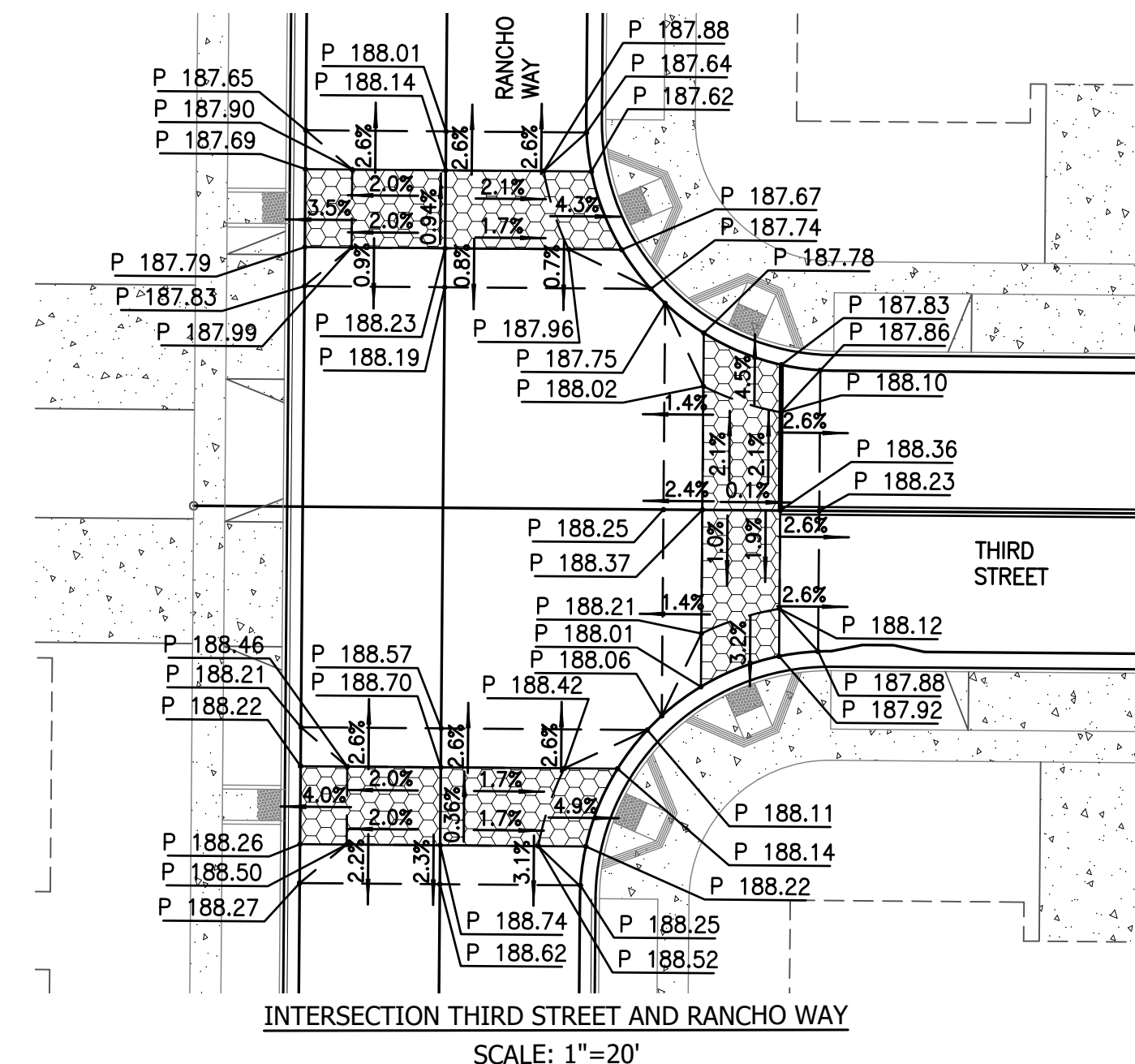
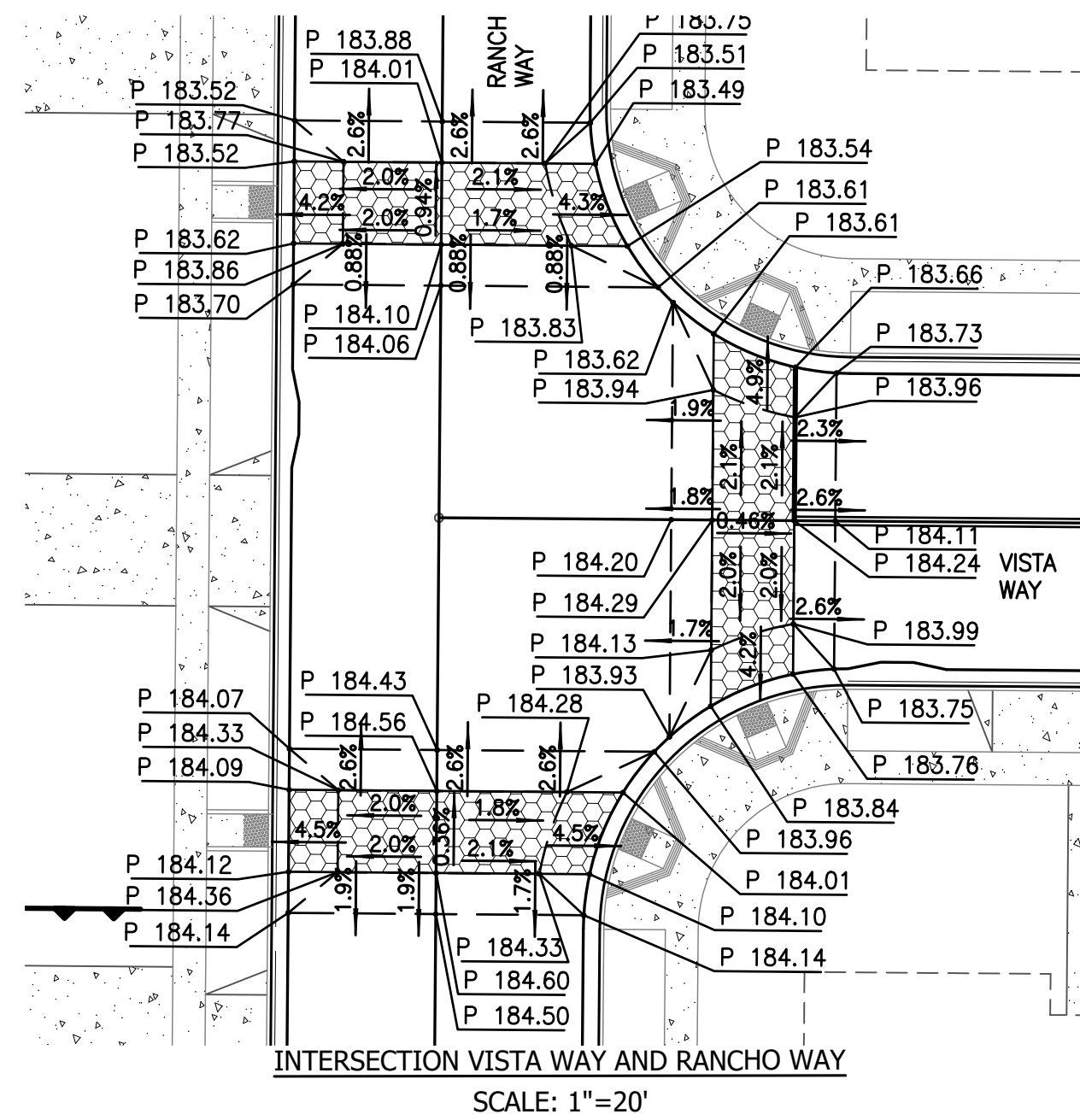
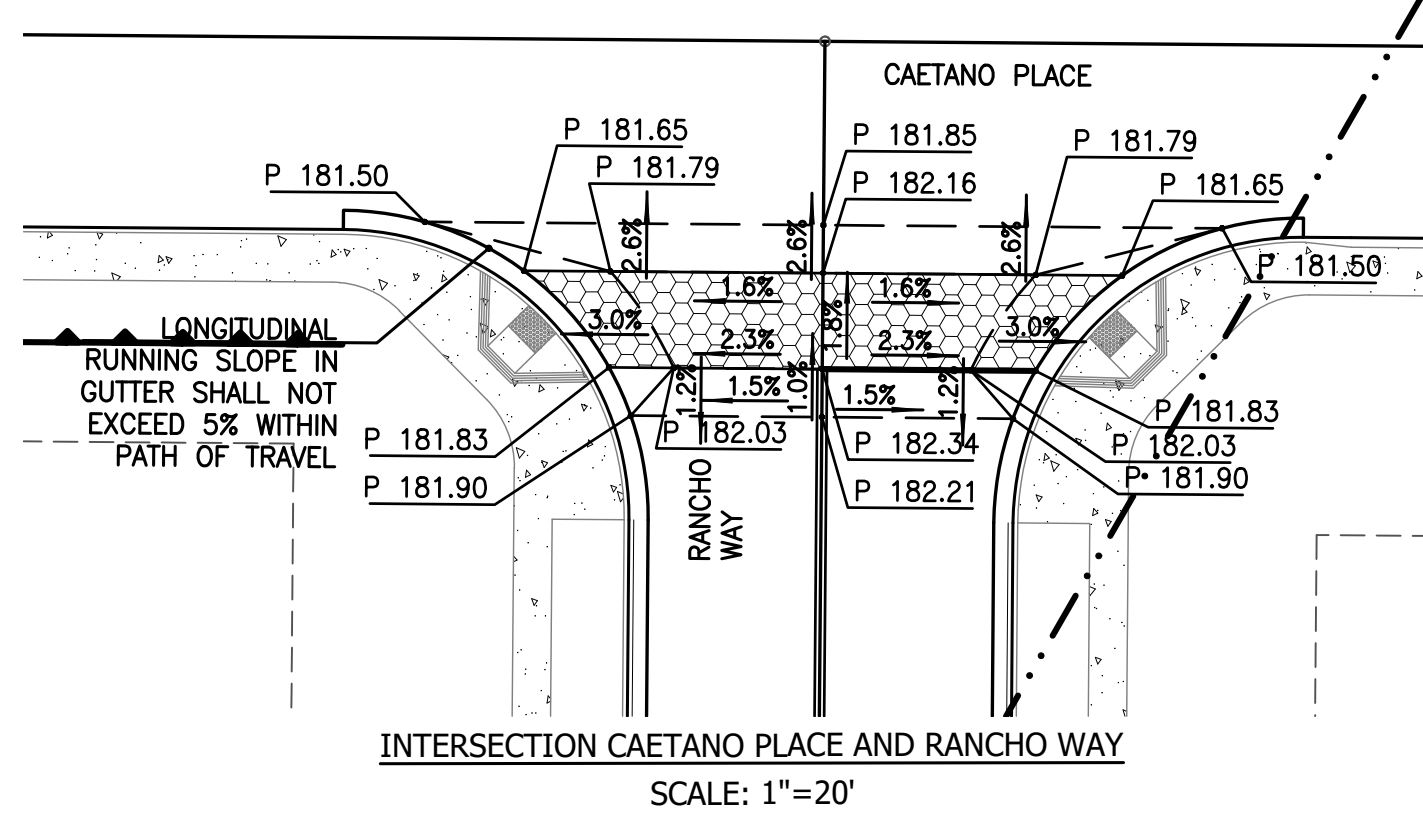
- 182.2**
STA 104+77.34
TC 184.21
- 0.42 %
- 185
- PROPOSED CURB, GUTTER AND SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED SLOPE TRANSITION
- GRADE BREAK
- HP
- SAWCUT CLEAN EDGE
- PROPOSED RETAINING WALL
- PROPOSED SWALE
- PROPOSED RESIDENTIAL DRIVEWAY
- PROPOSED STORM DRAIN INLET
- PROPOSED STORM DRAIN MANHOLE

KEY NOTES

1. INSTALL 16' WIDE RESIDENTIAL DRIVEWAY WITH 36" WINGS, PER CITY OF HOLLISTER STANDARD DETAIL A-10.
2. CONSTRUCT MASONRY RETAINING WALL PER SEPARATE PLANS PREPARED BY GULARTE & ASSOCIATES, INC.
3. CONSTRUCT CURB AND GUTTER PER CITY OF HOLLISTER STANDARD DETAIL A-8-1.
4. CONSTRUCT RESIDENTIAL SIDEWALK PER CITY OF HOLLISTER STANDARD DETAIL A-9-1. OMIT CRUSHED AGGREGATE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
5. CONSTRUCT CURB RAMP PER CITY OF HOLLISTER STANDARD DETAILS A-9-1 AND A-9-2. CURB RAMP DIMENSIONS AND SLOPES SHALL MEET ALL ADA REQUIREMENTS.
6. ADJUST EXISTING SANITARY SEWER MANHOLE TO FINISH GRADE.
7. CONSTRUCT INDUSTRIAL DRIVEWAY PER CITY OF HOLLISTER STANDARD DETAIL A-11.
8. CONSTRUCT KEYSTONE GEOWALL PER SEPARATE PLANS PREPARED BY GULARTE & ASSOCIATES, INC.
9. CONSTRUCT CURB (OMIT GUTTER) SIMILAR TO CITY OF HOLLISTER STANDARD DETAIL A-8-1.
10. SEE SHEET 20 FOR KEYSTONE RETAINING WALL ALONG TRAILSIDE COURT AND THIRD STREET
11. CONSTRUCT ROLLED CURB AND GUTTER PER DETAIL 3, SHEET 27.
12. CONSTRUCT 5' TRANSITION BETWEEN VERTICAL CURB AND ROLLED CURB. (5% MAX SIDEWALK LONGITUDINAL SLOPE AND 2% MAX SIDEWALK CROSS SLOPE).
13. CONSTRUCT RESIDENTIAL DRIVEWAY (OMIT WINGS), SIMILAR TO CITY OF HOLLISTER STANDARD DETAIL A-10.
14. CONSTRUCT ROLLED CURB WITHOUT GUTTER PER DETAIL 3, SHEET 27.
15. REMOVE EARTH FILL PREVIOUSLY PLACED NORTH OF THE LOT 81-85 REAR PROPERTY LINES AND ALL WEATHER ACCESS ROAD TO RESTORE ORIGINAL GROUND ELEVATIONS.
16. CONSTRUCT TYPE A AC DIKE PER STATE STANDARD PLAN RSP A87B
17. 15' PAVEMENT TRANSITION FROM FULL DEPTH GUTTER TO NO GUTTER.
18. CONSTRUCT ASPHALT CONCRETE CROSS GUTTER WITH DIMENSIONS CONFORMING TO CITY OF HOLLISTER STANDARD PLAN A-8-1.
19. CONTRACTOR SHALL BRACE EXISTING POLE AS NECESSARY, COORDINATE WITH UTILITY COMPANY FOR REQUIREMENTS.

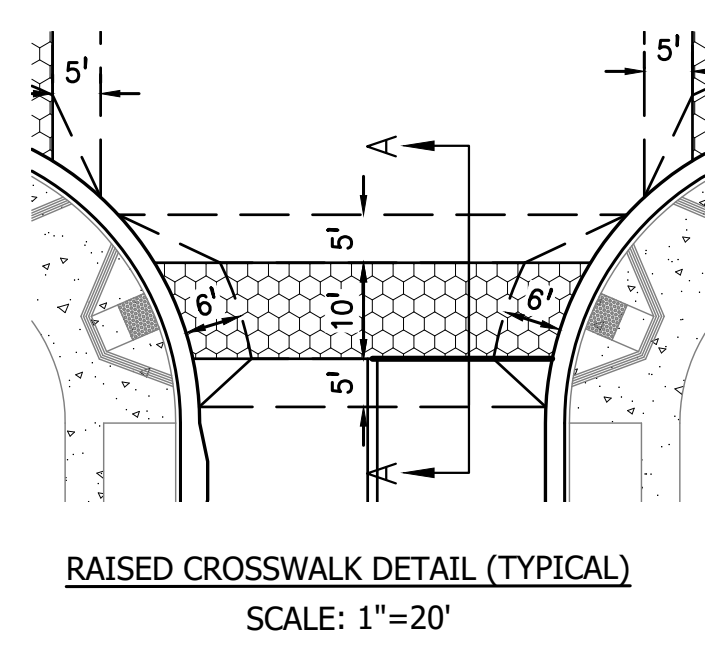
NOTE:
 1. PROPOSED PAD ELEVATIONS ARE ABOVE THE 100-YEAR BASE FLOOD ELEVATIONS AS SHOWN IN THE SCHAAF & WHEELER CONSULTING CIVIL ENGINEERS MEMORANDUM DATED APRIL 17, 2017 (JOB#: VHC.01.17).

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- SECTION A-A NOTES**
- PROPOSED ELEVATIONS AND SLOPES PER PLAN.
 - COMPACT SUBGRADE MATERIAL UNDER CONCRETE CROSSWALK TO MINIMUM 95% RELATIVE COMPACTION FOR A DEPTH OF 12".
 - COMPACT CRUSHED MISCELLANEOUS BASE MATERIAL TO MINIMUM 95% RELATIVE COMPACTION.
 - WEAKENED PLANE JOINTS SHALL BE 1/8" X 1/2" DEEP WHEN FINISHED. PLACE AT APPROXIMATELY 10' INTERVALS.

RECORD DRAWING
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DATE: JANUARY 8, 2021



* FILE NAME: W:\10136000\civil\design\drawing\sheet_files\record_drawing\20_GRAD.dwg * Plotted on: Tuesday, 05 January 2021 at 2:23pm by: SYU *

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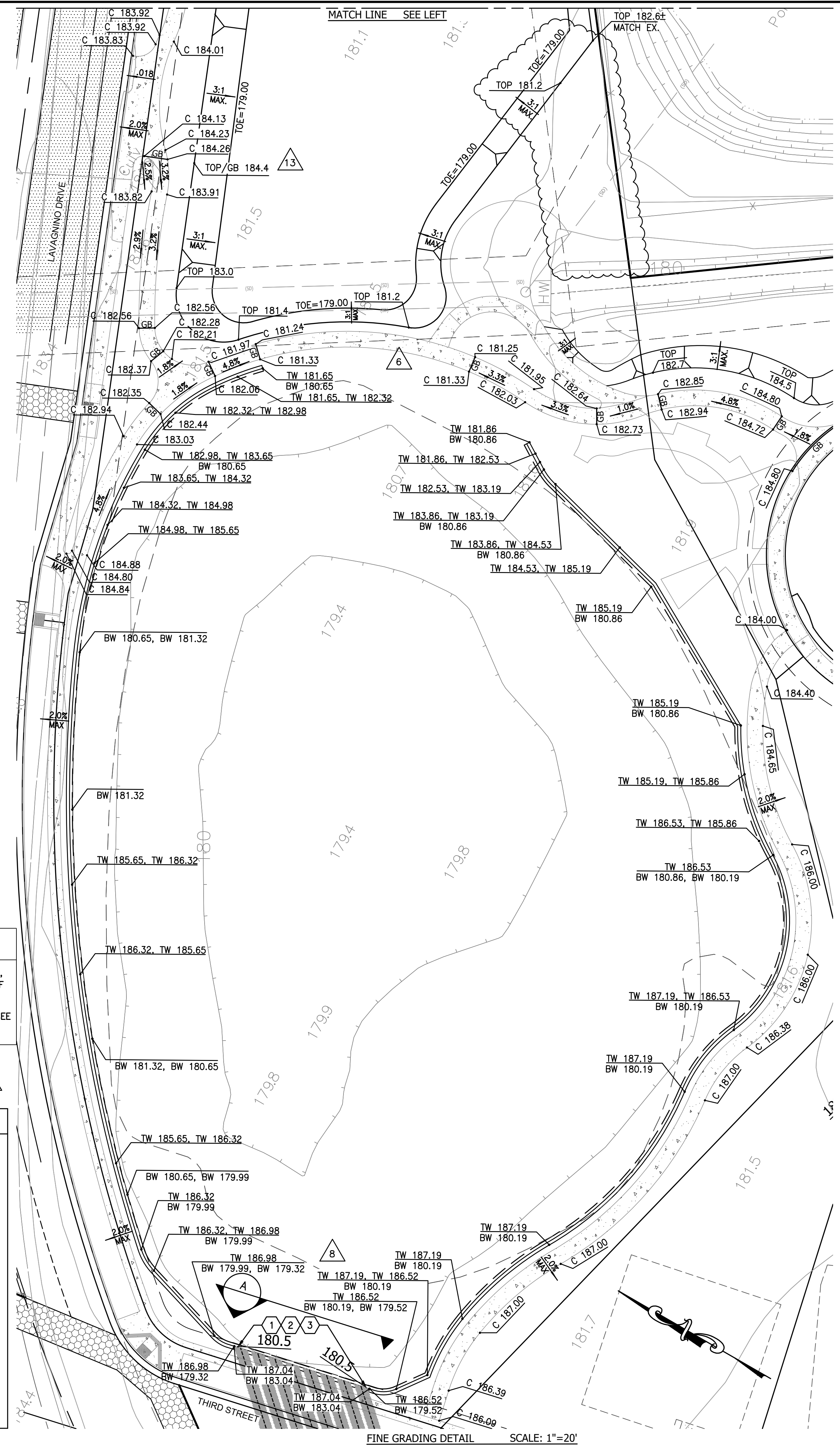
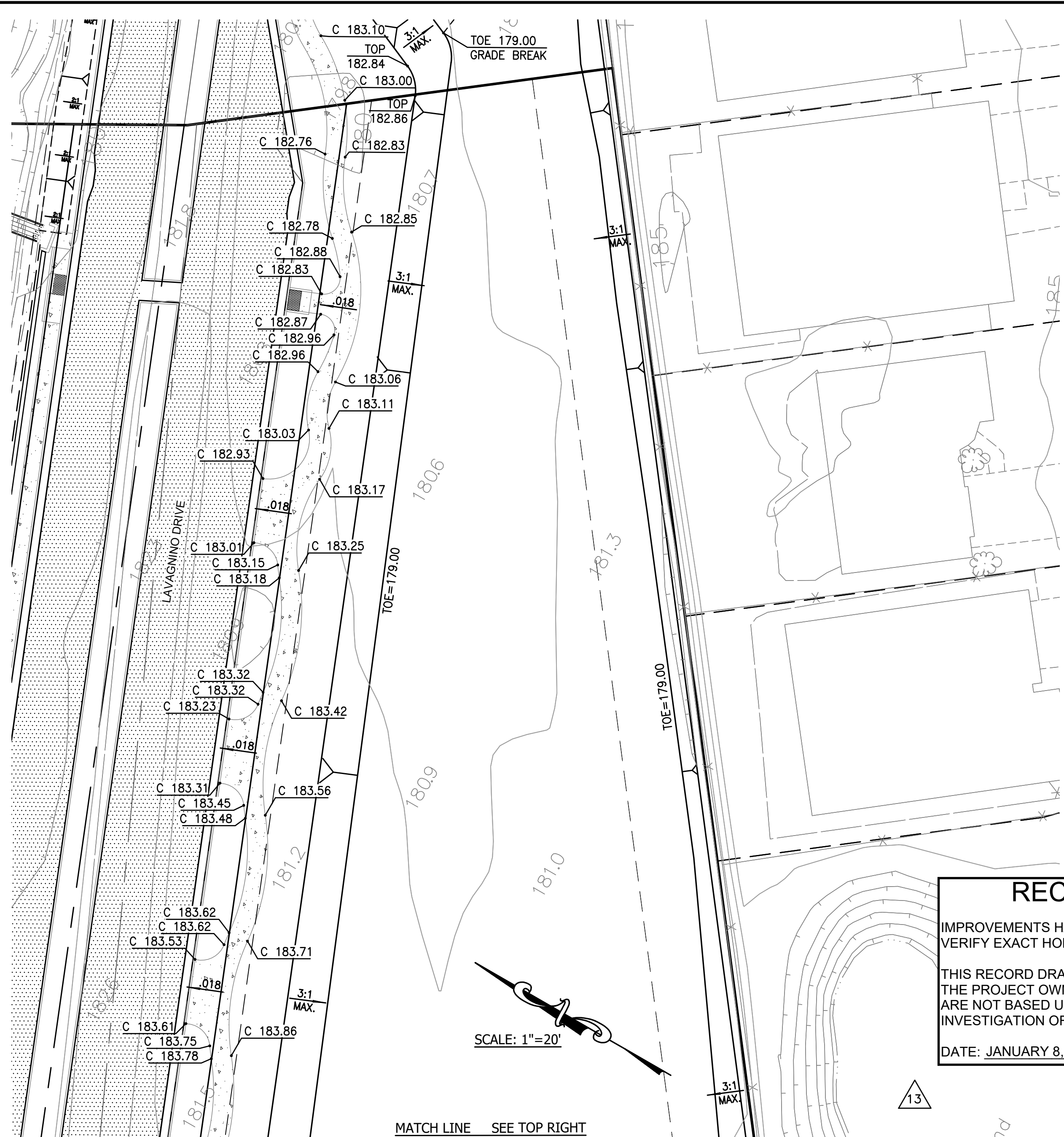
NO.	REVISIONS	DATE
1	OMITTED WALL GRADES	07.18
2	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
INTERSECTION GRADING PLAN

SCALE: SCALE 1"=40'
DATE: 05 January 2021
JOB #: 113071
DWG: 20_GRAD.dwg
SHEET: **20**
OF **34** SHEETS

* FILE NAME: W:\10130600\civil\design\drawing\sheet_files\record_drawing\21_GRAD.dwg * Plotted on: Tuesday, 05 January 2021 at 2:24pm by: SYU *



RECORD DRAWING

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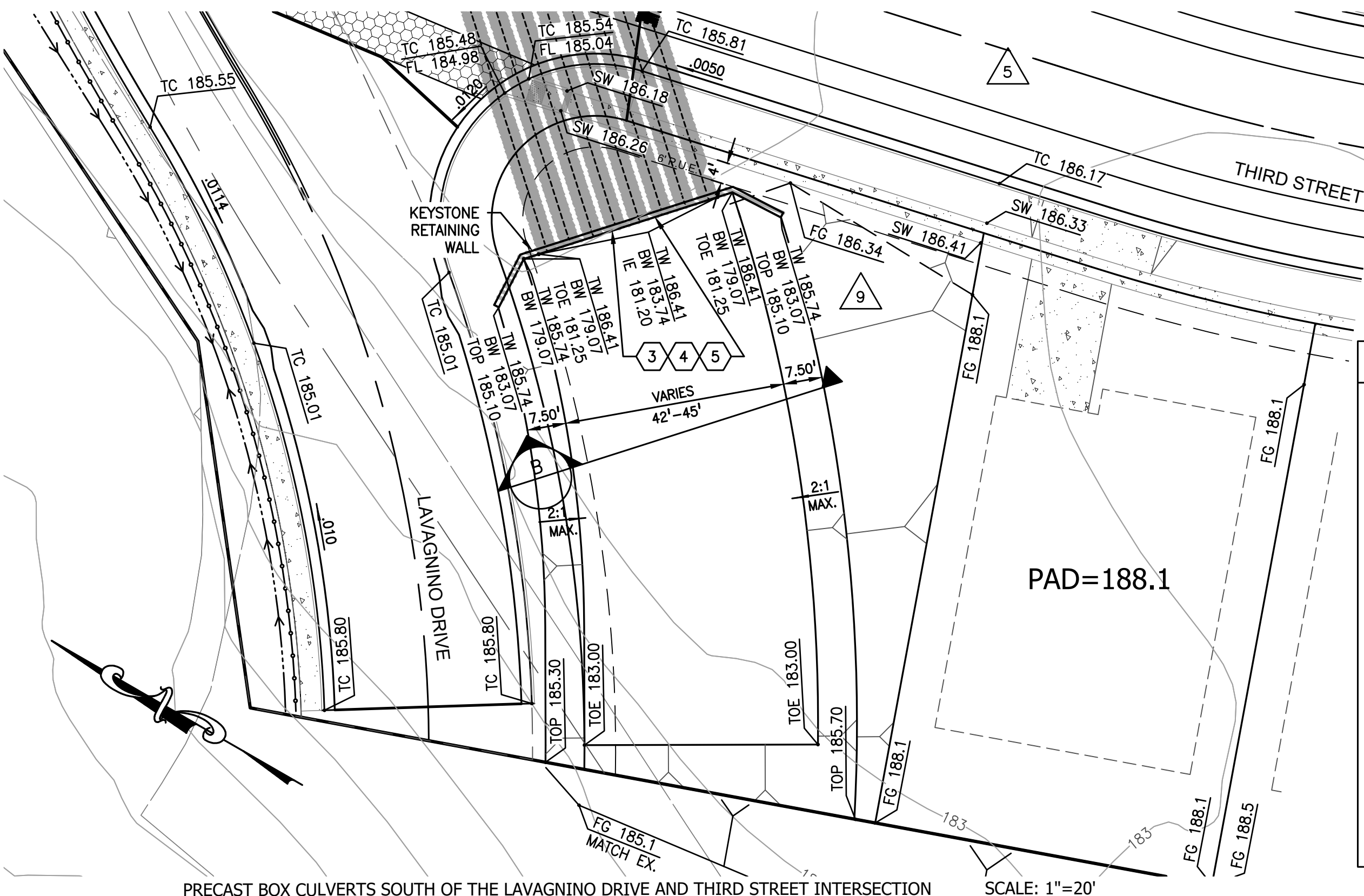
DATE: JANUARY 8, 2021

CONSTRUCTION NOTES

1. USE EXTREME CAUTION WHEN DIGGING, TRENCHING, BORING, OR OTHERWISE EXCAVATING WITHIN 18' OF THE FACE OF ALL GEOWALL RETAINING WALLS. GEOGRID IS AN INTEGRAL COMPONENT OF THE REINFORCED SOIL ZONE BEHIND THE GEOWALLS. SEE STRUCTURAL PLANS PREPARED BY OTHERS FOR ADDITIONAL INFORMATION.

KEYNOTES

1. CONSTRUCT APPROX. 48 LF GEOWALL HEADWALL PER GEOWALL HEADWALL DETAIL ON SHEET RW3B AND CROSS SECTION A ON SHEET 27.
2. CONSTRUCT APPROX. 48 LF CONCRETE CUT-OFF WALL AT END OF CMP PIPES 4' DEEP x 12" WIDE SIMILAR TO STATE STD PLAN D84. PLACE WATERSTOP BETWEEN BOTTOM OF CMP PIPES AND TOP OF CUT-OFF WALL PER CROSS SECTION A ON SHEET 27.
3. PLACE CONTROLLED DENSITY FILL BETWEEN CMP PIPES, FROM GROUND TO TOP OF CMP PIPES, WITH 18" MIN DEPTH MEASURED FROM END OF EACH CMP PIPE.
4. CONSTRUCT APPROX. 42 LF GEOWALL HEADWALL AND 21 LF GEOWALL WINGWALL PER DETAILS ON SHEET RW3B AND CROSS SECTION B ON SHEET 27.
5. CONSTRUCT APPROX. 42 LF CONCRETE CUT-OFF WALL AT END OF CMP PIPES 4' DEEP x 12" WIDE SIMILAR TO STATE STD PLAN D84. PLACE WATERSTOP BETWEEN BOTTOM OF CMP PIPES AND TOP OF CUT-OFF WALL PER CROSS SECTION B ON SHEET 27.



The Contractor shall verify and be NOT responsible for any errors or omissions in this drawing. Any errors or omissions shall be reported to WACE without delay. WACE shall not be held responsible for any errors or omissions in this drawing. WACE is not authorized in writing by WACE to act in any capacity for construction until sealed, signed and dated by the Engineer.



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 Fax: 209.568.4478

NO.	REVISIONS	DATE
1	CULVERT END REVISIONS	07:17
2	RET. WALL/SD REVISIONS	07:17
3	RET. WALL/SD REVISIONS	08:17
4	RET. WALL REVISIONS	08:17
5	RET. WALL REVISIONS	10:17
6	GRADING REVISIONS	07:18

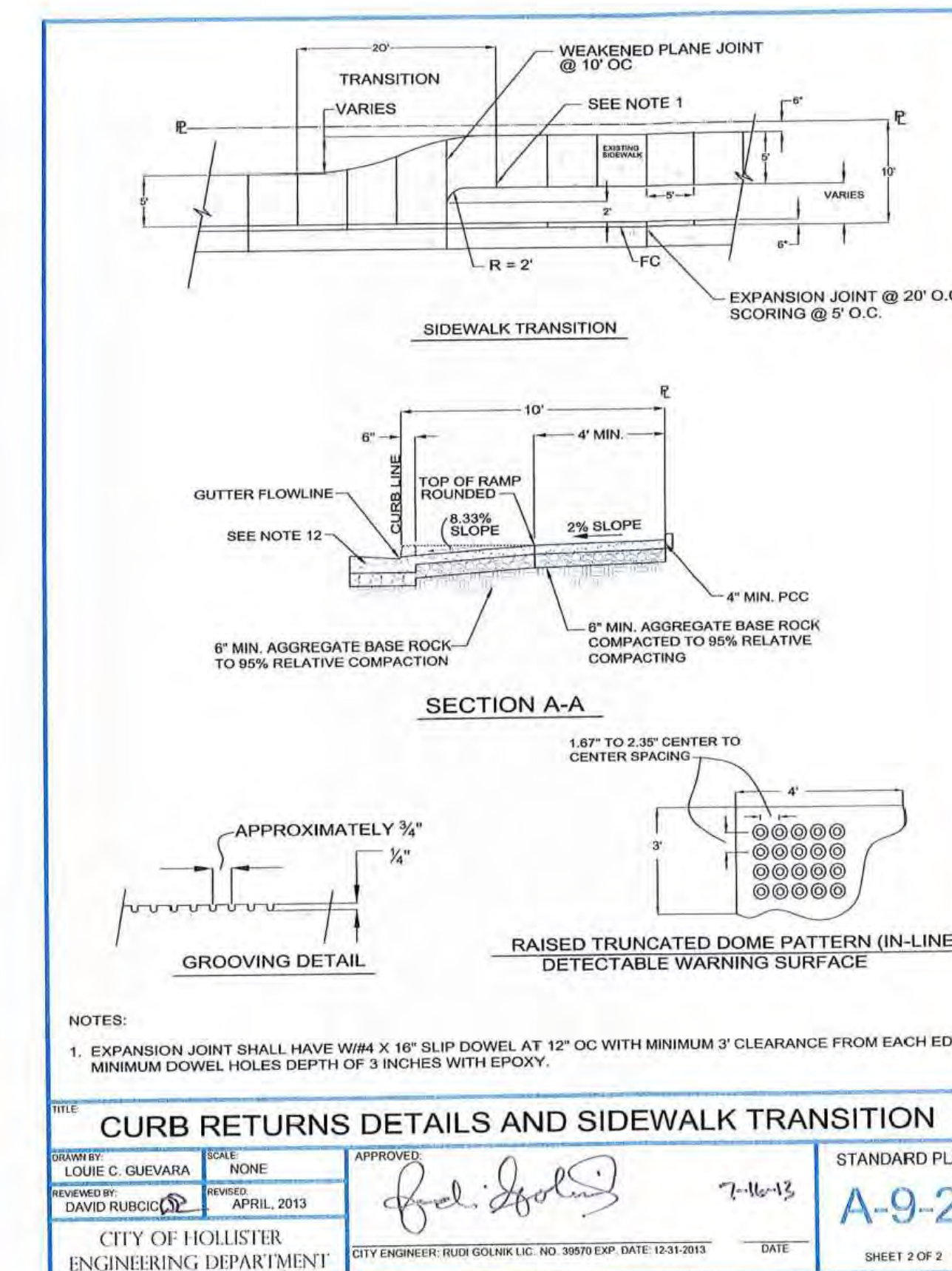
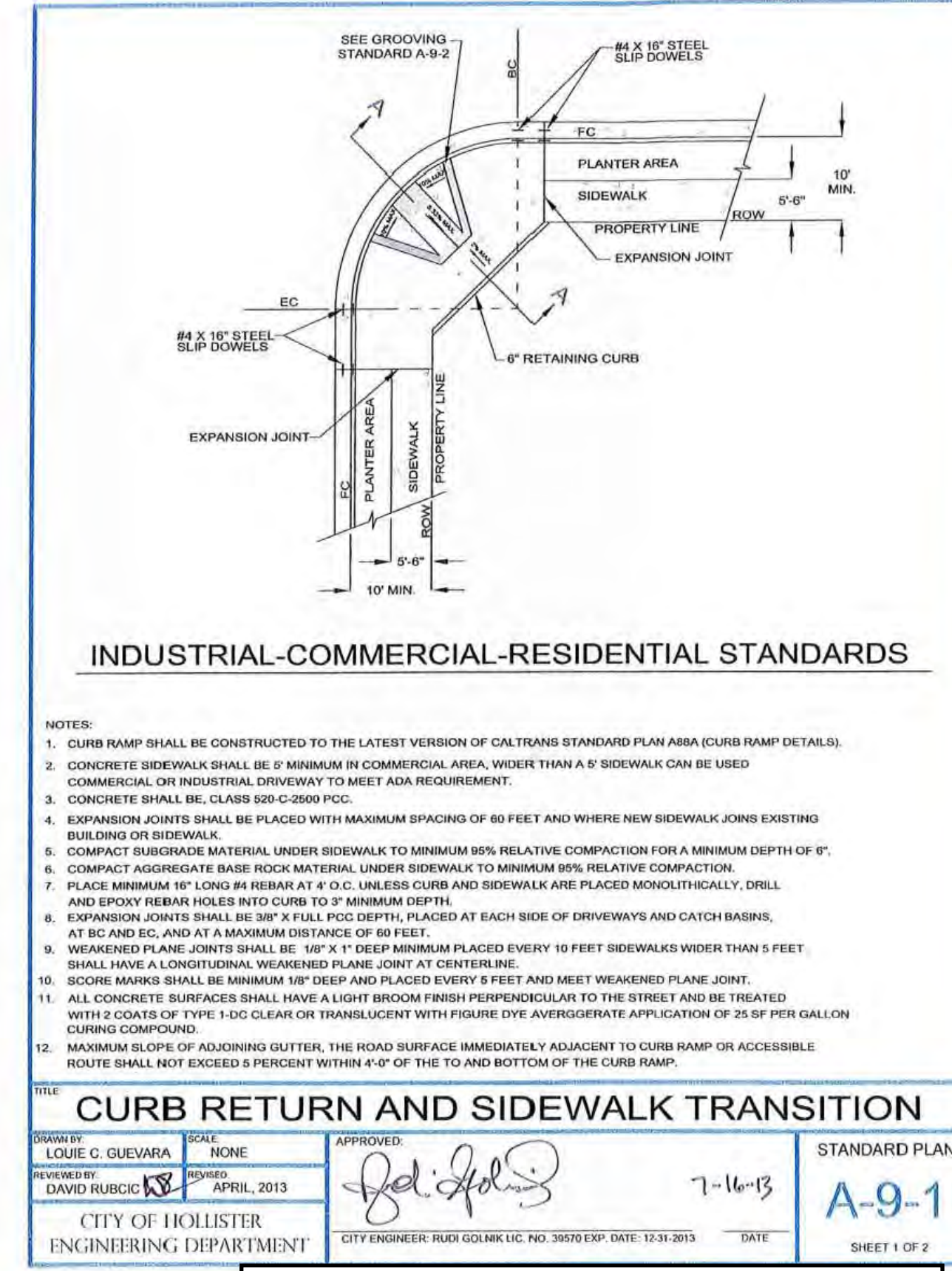
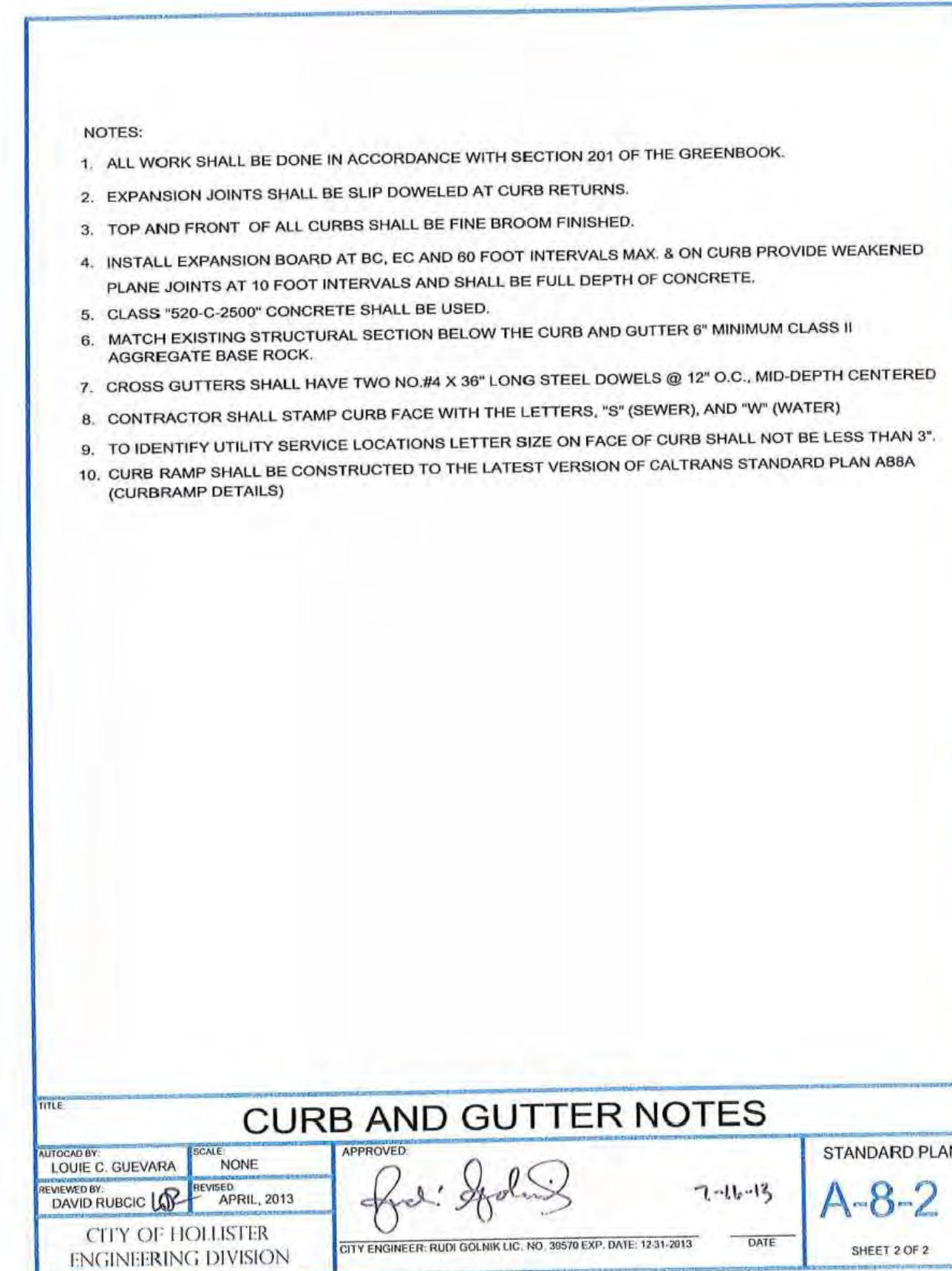
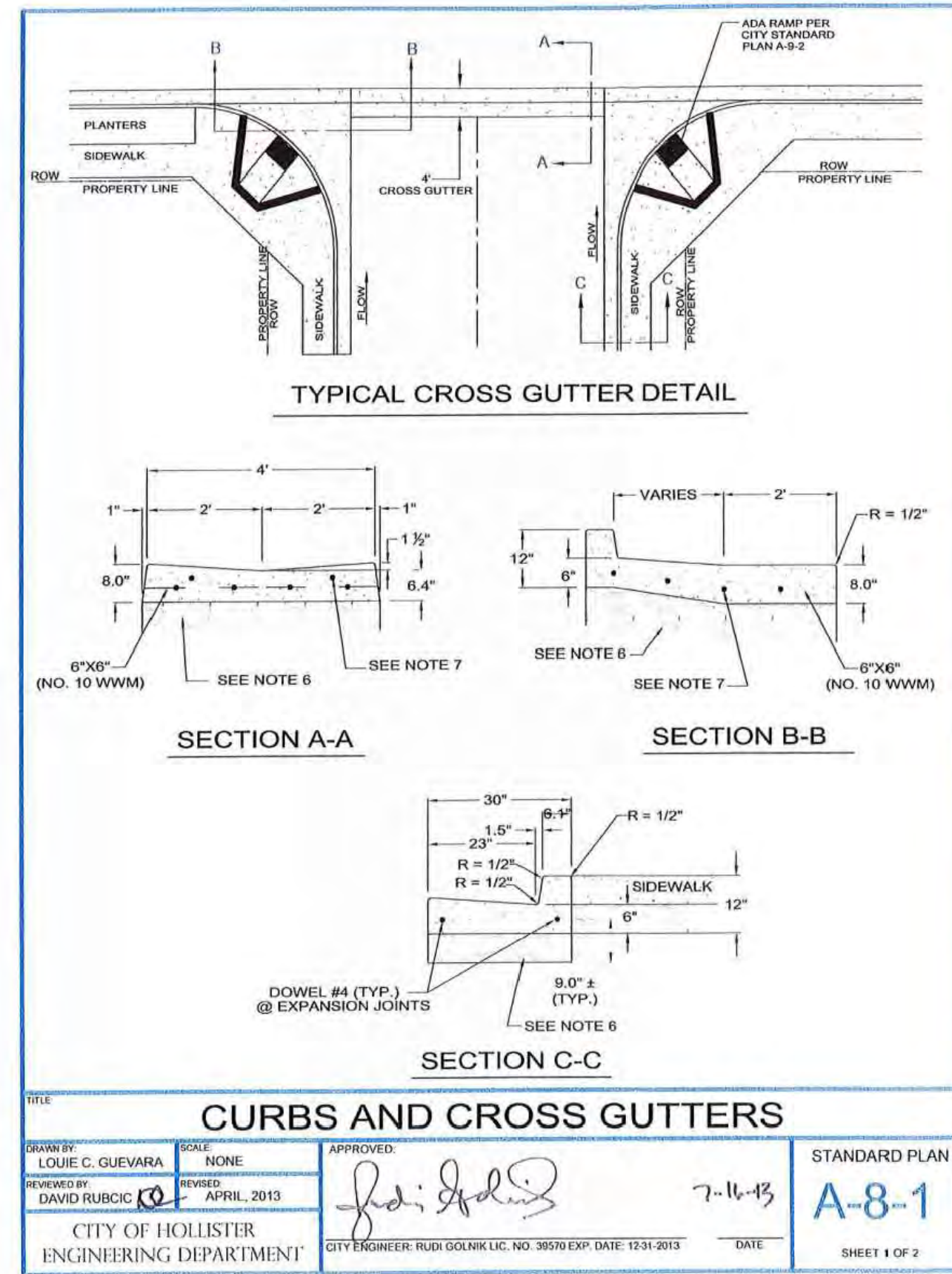
RECORD DRAWINGS 01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
**CULVERT AND CHANNEL
 GRADING PLAN**

SCALE: SCALE 1"=20'
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 21_GRAD.dwg

SHEET: **21**
 OF **34** SHEETS

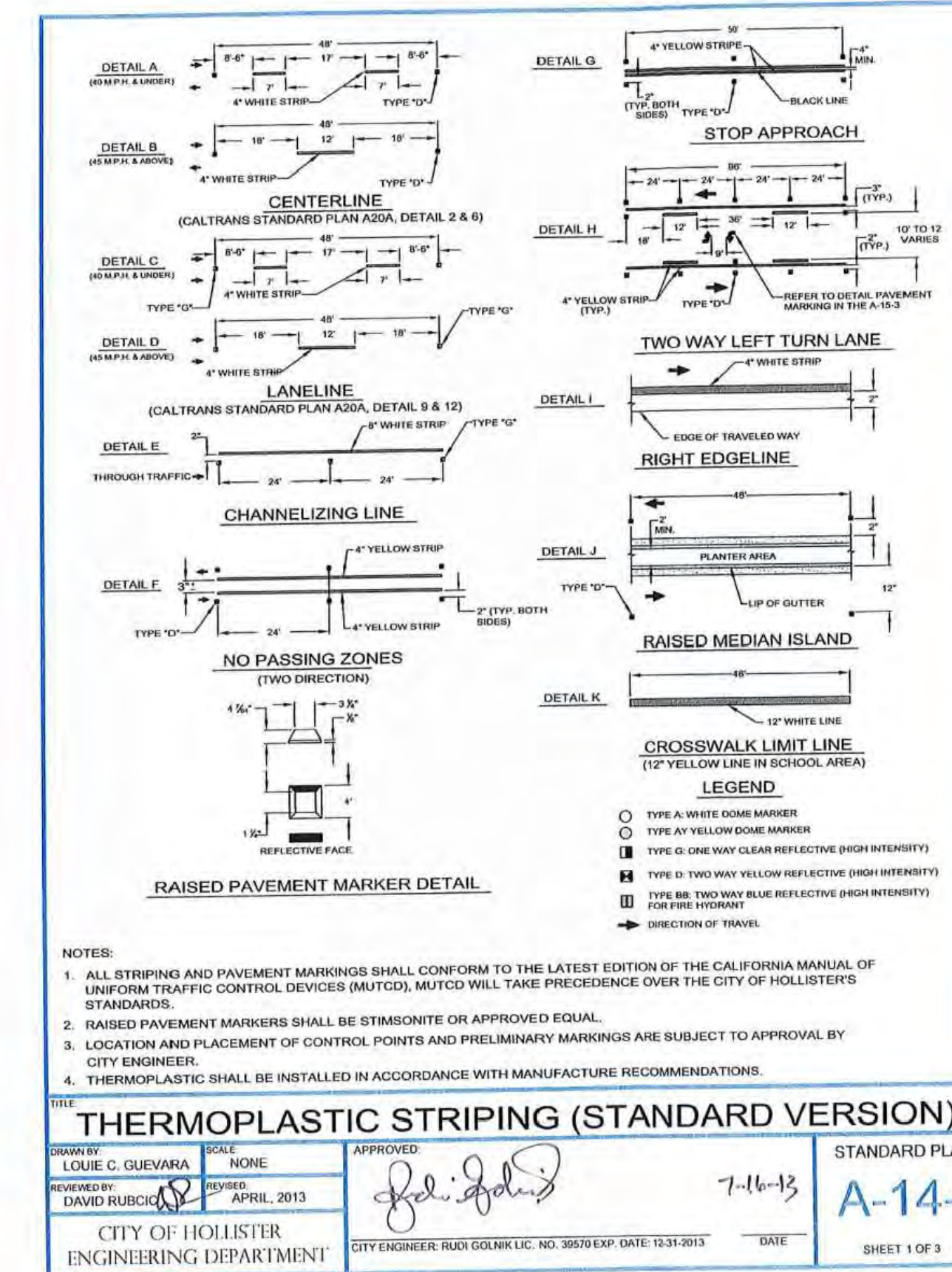
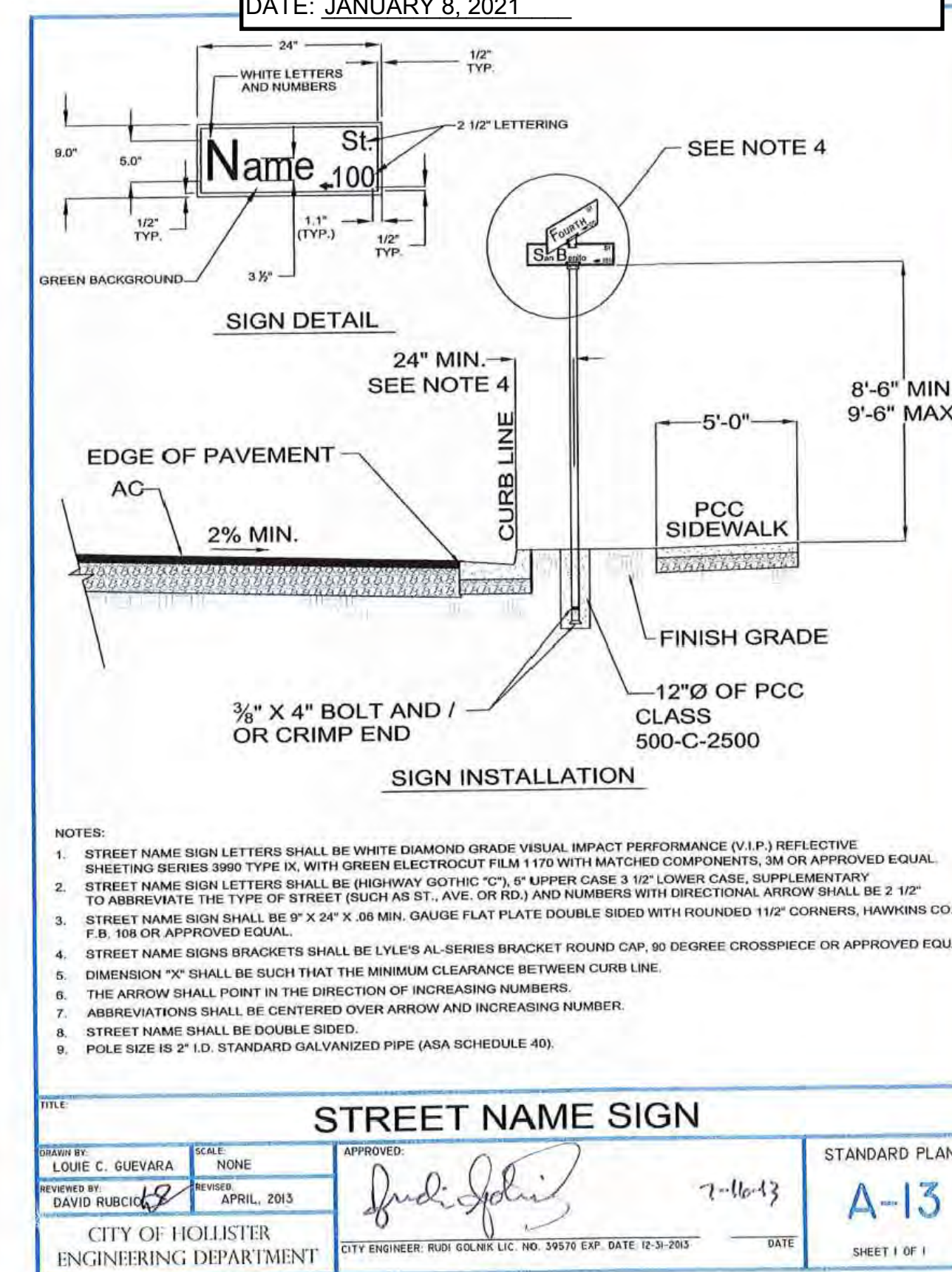
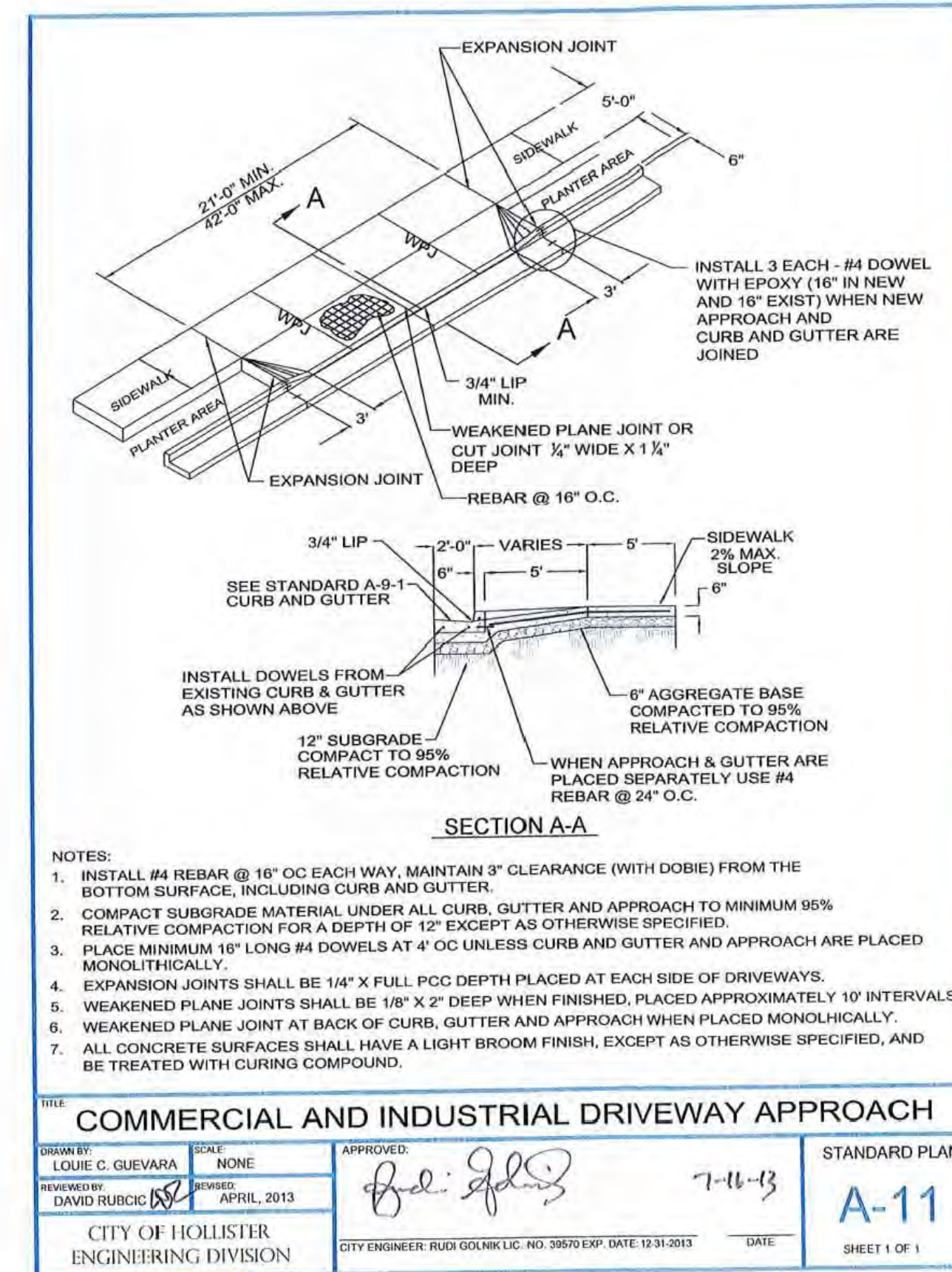
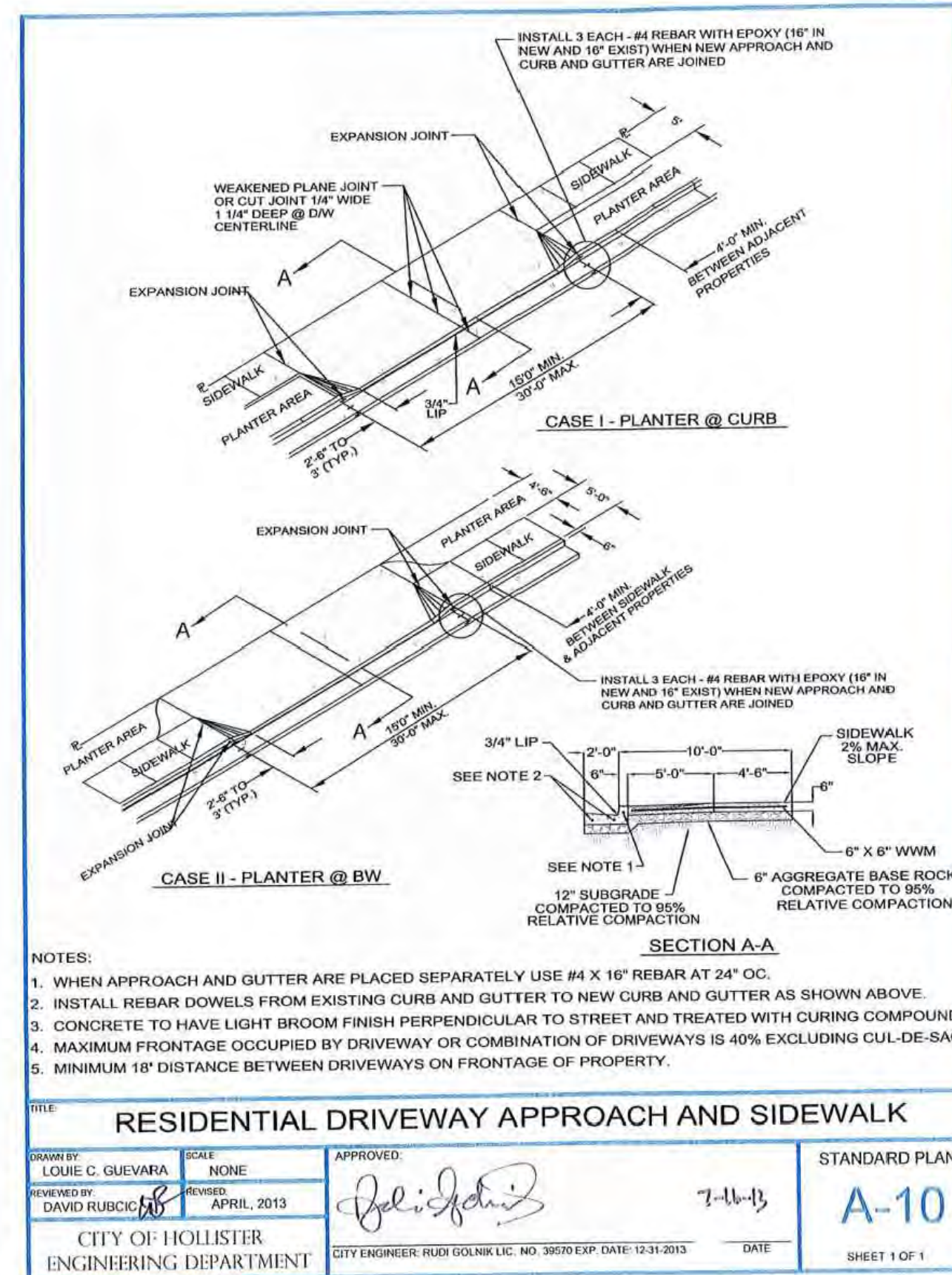


RECORD DRAWING

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DATE: JANUARY 8, 2021



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WACE CONSULTING ENGINEERS

430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

NO.	REVISIONS	DATE
1	RECORD DRAWINGS	01.21

CITY OF SAN JUAN BAUTISTA

RANCHO VISTA

SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN

DETAILS

SCALE: SCALE AS NOTED

DATE: 05 January 2021

JOB #: 113071

DWG: 22 DETLS.dwg

SHEET: 22 OF 34 SHEETS

* FILE NAME: W:\1013600\civil\design\drawing\sheet_dtl\record_drawing\22_DETLS.dwg * PLOTTED ON: Tuesday, 05 January 2021 at 2:25pm by: SYTU *

RECORD DRAWING

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DATE: JANUARY 8, 2021

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DEAD END STREET BARRICADE

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 1 OF 1

SEWER LATERAL & CLEANOUT

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 1 OF 1

SEWER CLEANOUT FRAME/COVER & CONCRETE COLLAR

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 2 OF 2

TYPE II STANDARD MANHOLE (PIPE 18" TO 42 INCHES)

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 1 OF 2

TYPE III STANDARD MANHOLE (48 INCH AND LARGER)

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 2 OF 2

CAST-IN-PLACE CURB INLET AND FRAME GRATES (24" X 36")

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 1 OF 4

CAST-IN-PLACE CURB INLET-SECTIONS

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

APPROVED: [Signature]
 DATE: 7-16-13
 SHEET 2 OF 4

INLET HOOD, FRAME AND GRATES

SCALE: NONE
 DATE: APRIL 2013
 CITY OF HOLLISTER ENGINEERING DEPARTMENT

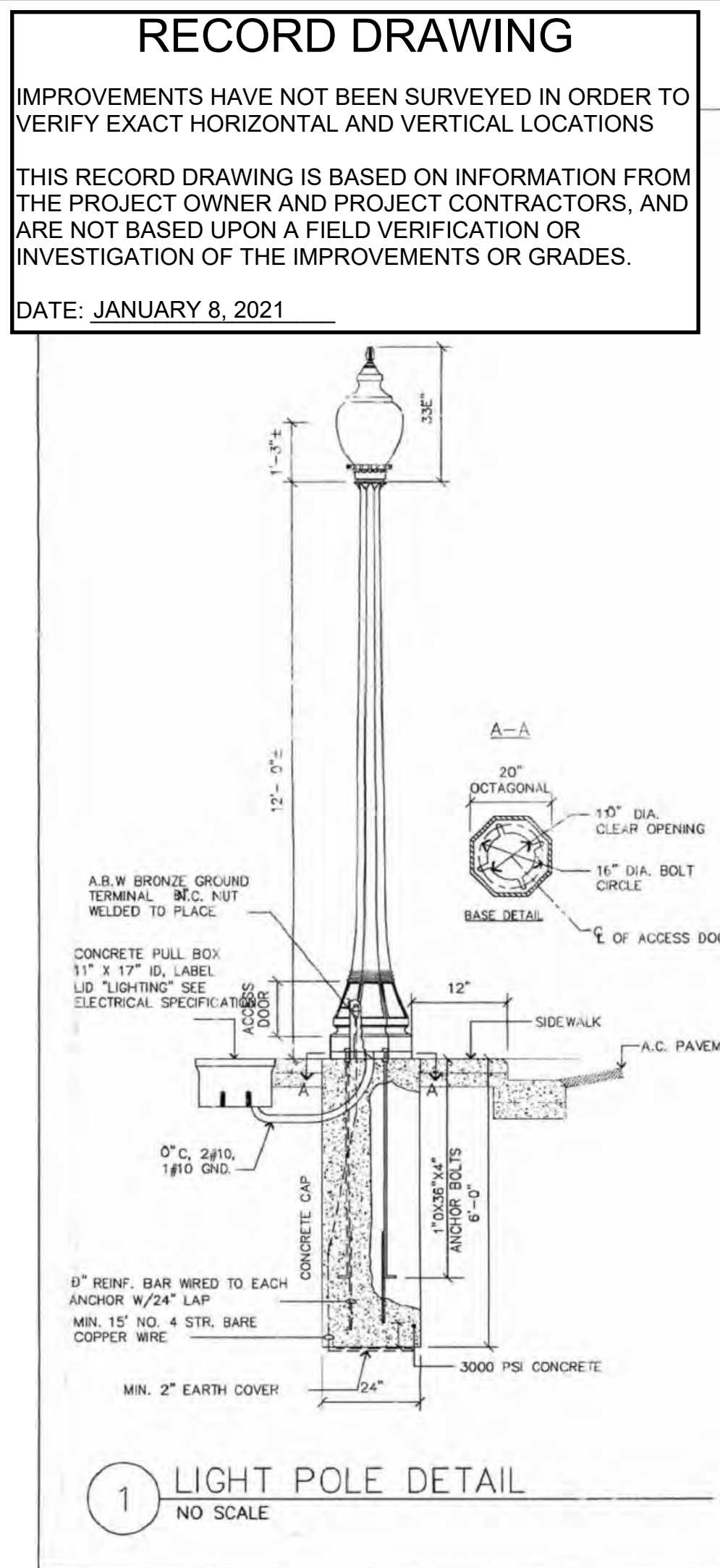
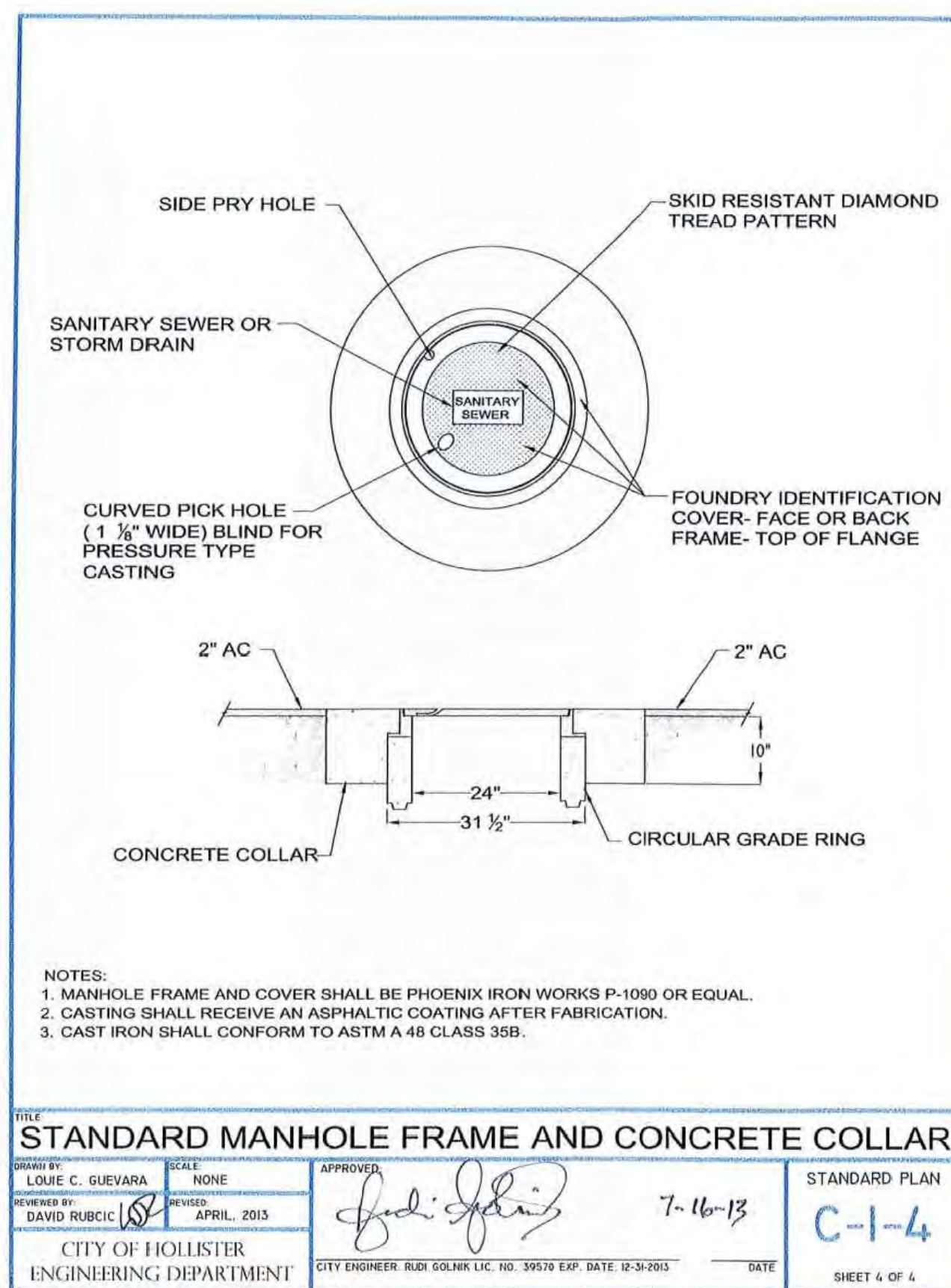
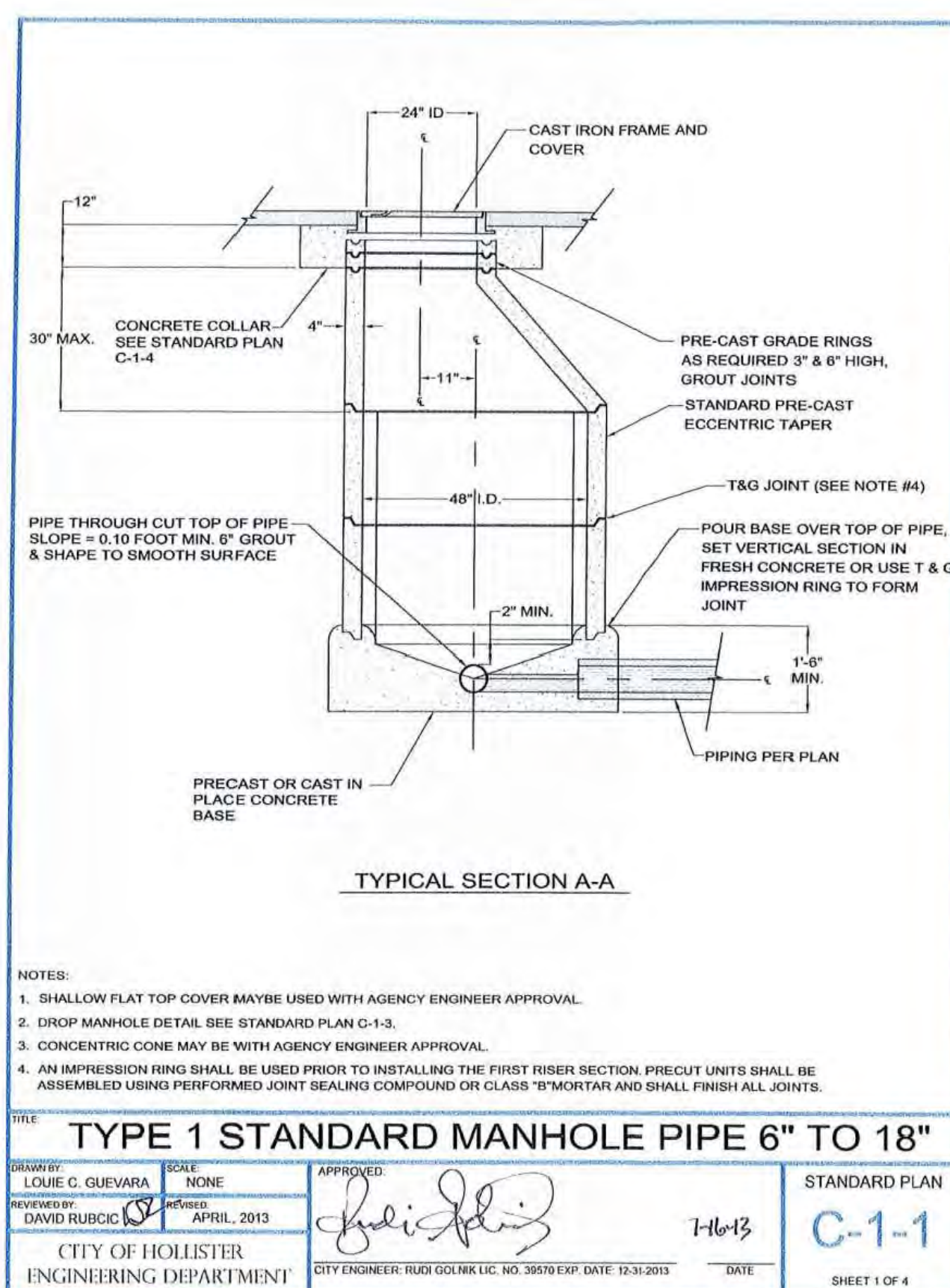
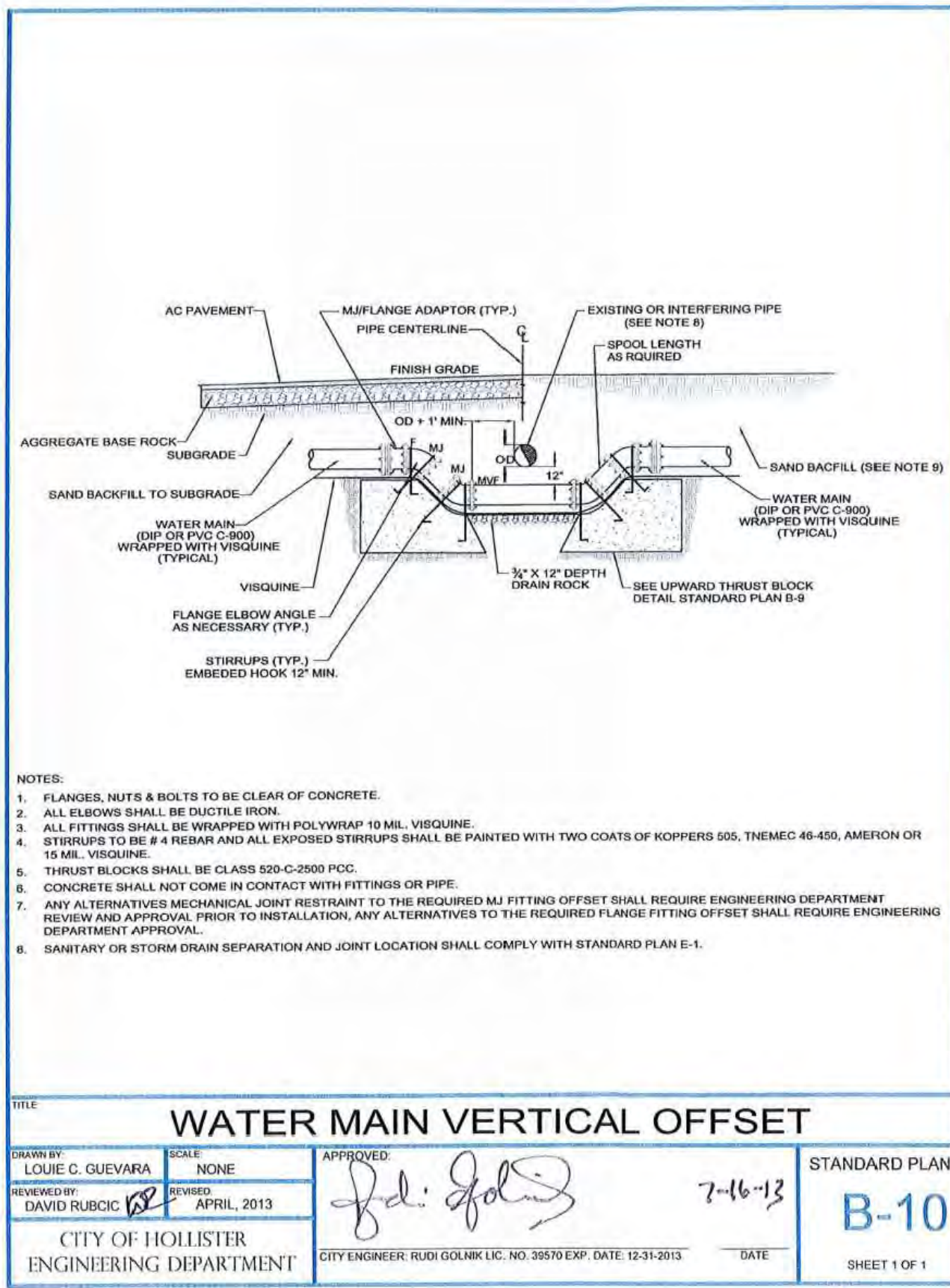
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 DATE: 7-16-13
 SHEET 3 OF 4

NO.	REVISIONS	DATE
1	RECORD DRAWINGS	01.21

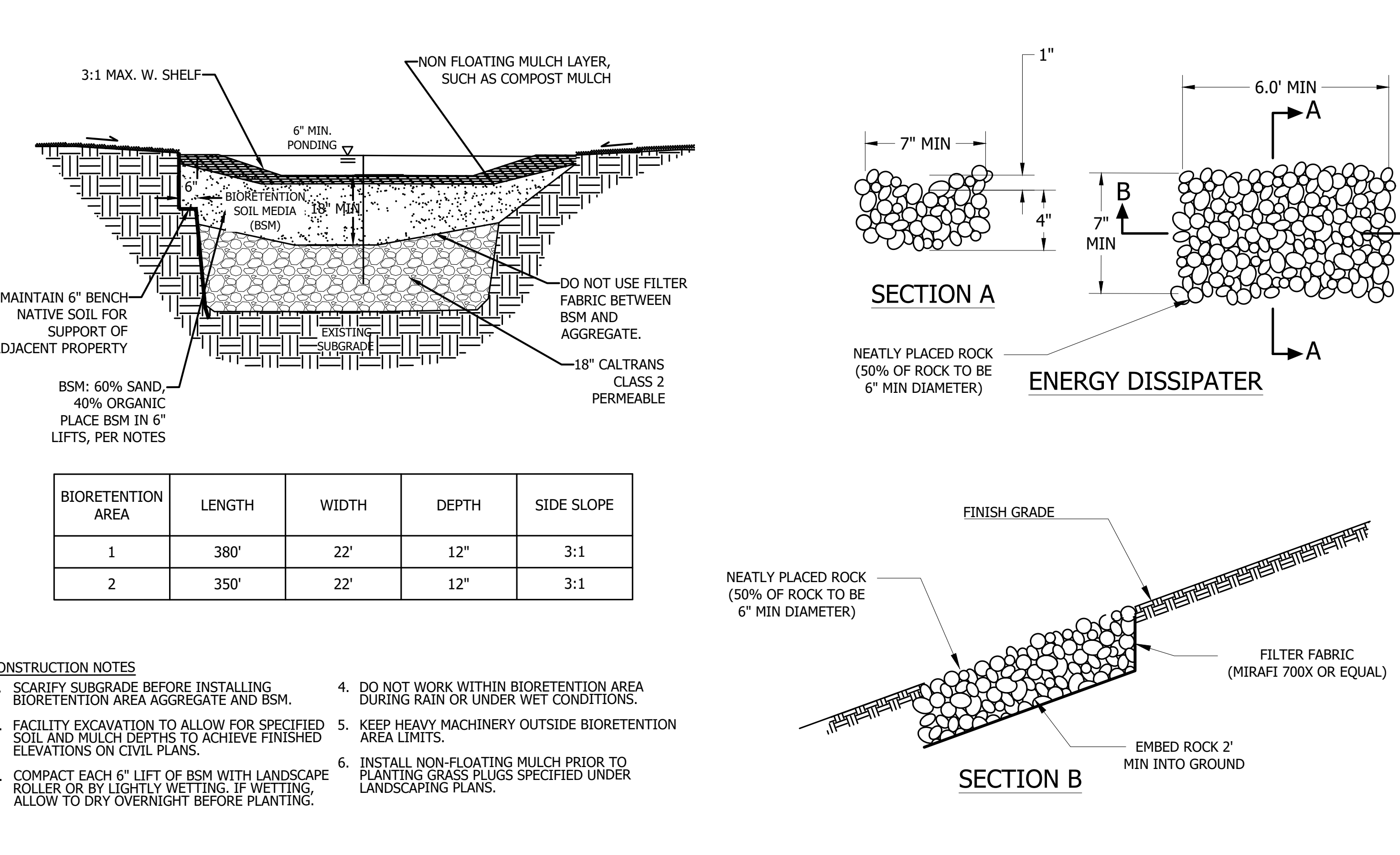
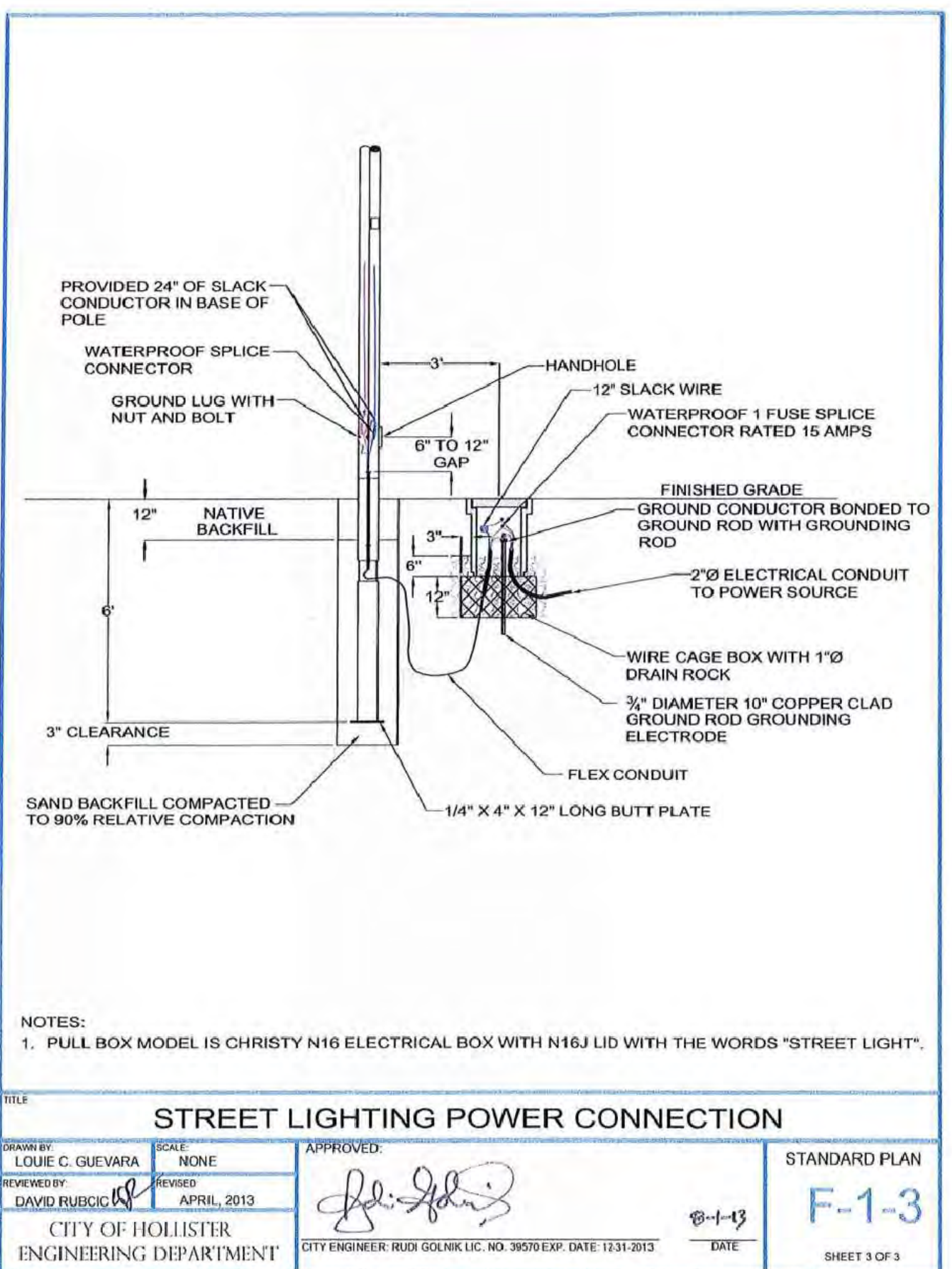
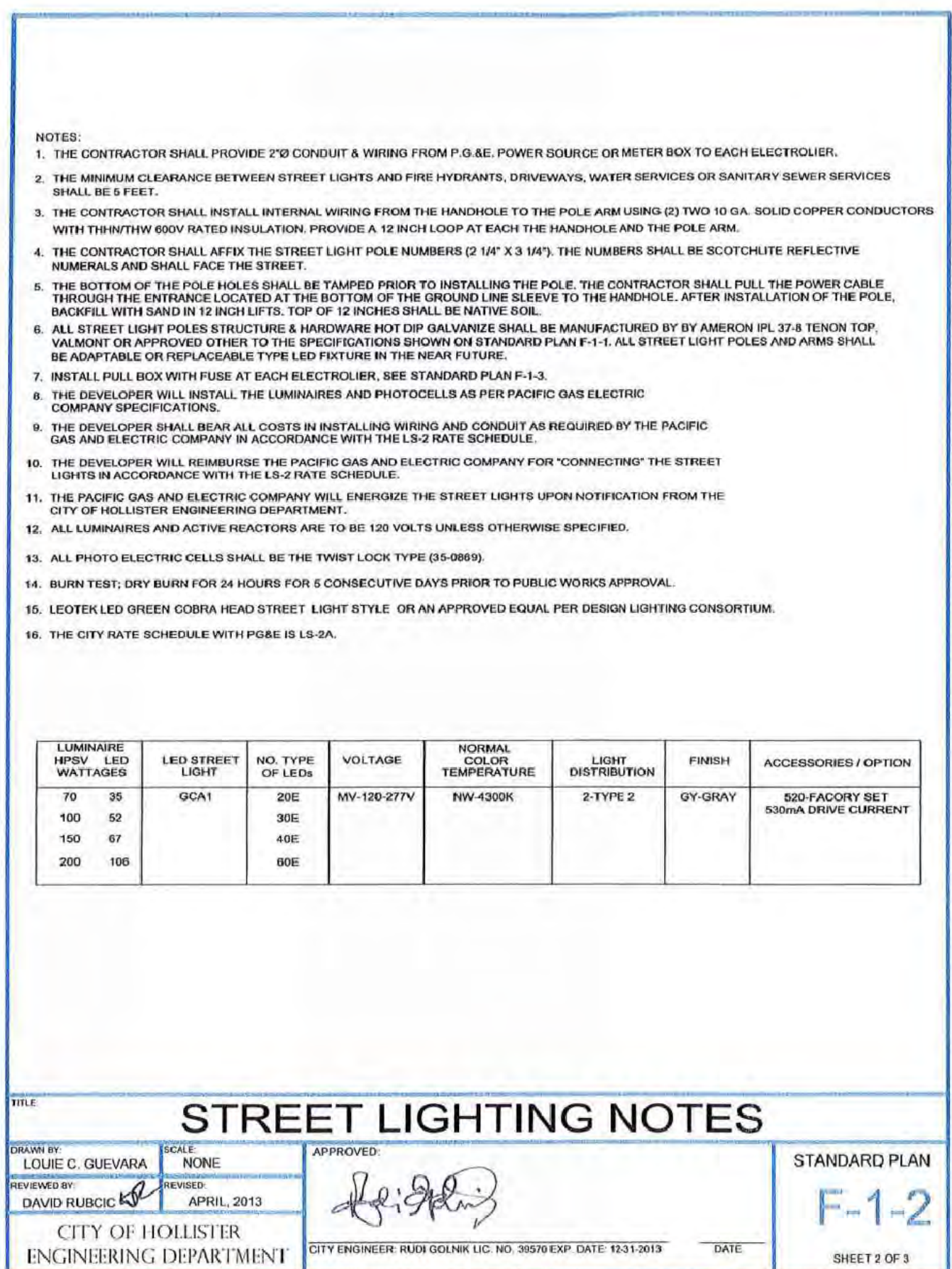
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS

SCALE: SCALE AS NOTED
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 23 DETLS.dwg
 SHEET: **23**
 OF 34 SHEETS



NO.	REVISIONS	DATE
A	RECORD DRAWINGS	01/21



CITY OF SAN JUAN BAUTISTA

RANCHO VISTA

SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN

DETAILS

SCALE: SCALE AS NOTED

DATE: 05 January 2021

JOB #: 113071

DWG: 24 DETLS.dwg

SHEET: 24

OF 34 SHEETS

* FILE NAME: W:\1013600\civil\design\drawing\sheet_files\record_drawing\24_DETLS.dwg * Plored on: Tuesday, 05 January 2021 at 2:25pm by: SYTU *

The Contractor shall verify and be responsible for the accuracy of all scale drawings. Any errors or omissions shall be reported to WJCE without delay. WJCE shall not be held responsible for any errors or omissions on drawings or the property of WJCE. WJCE shall not be held responsible for any purpose other than that authorized in writing by WJCE. WJCE is not authorized to accept any liability for construction until sealed, signed and dated by the Engineer.

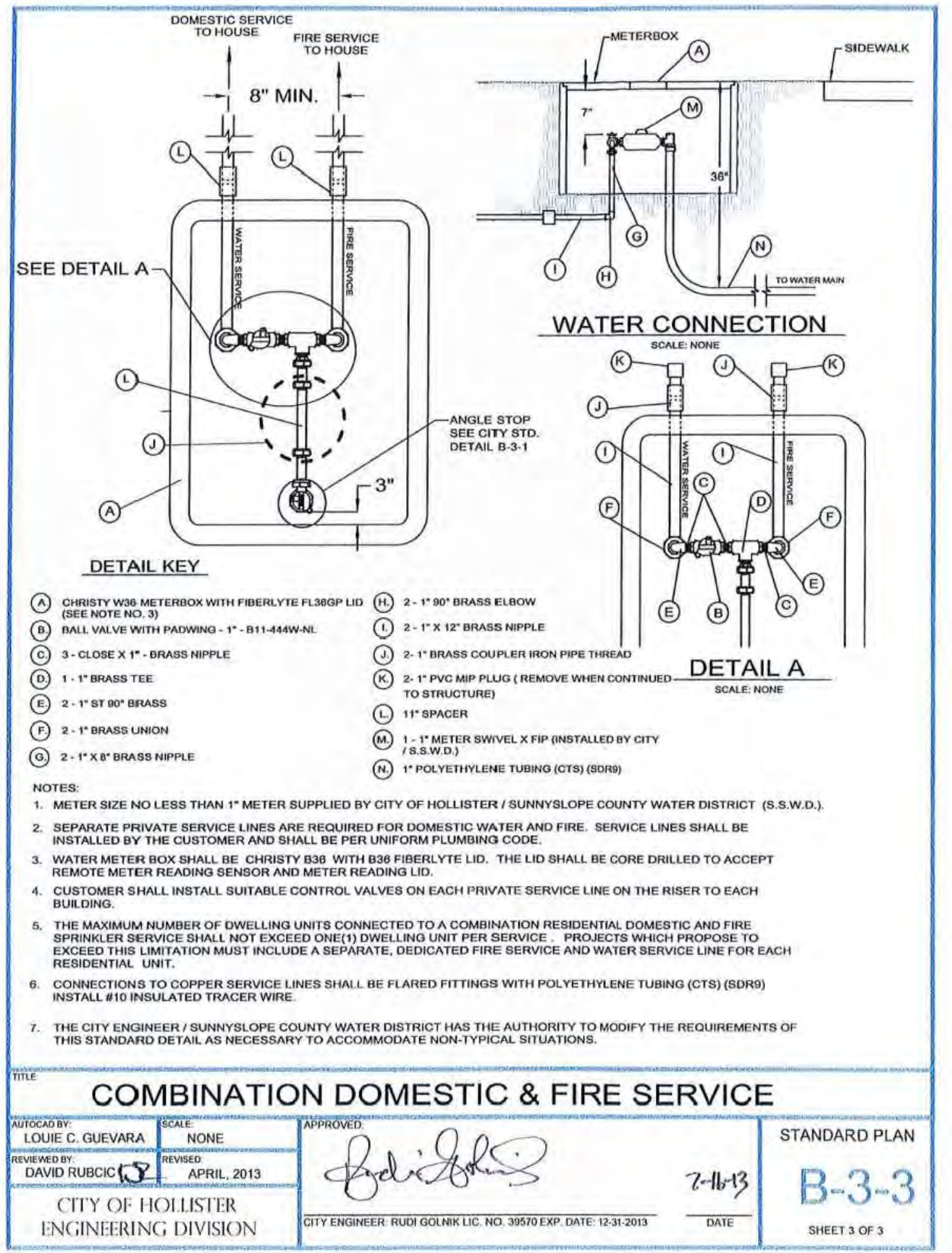
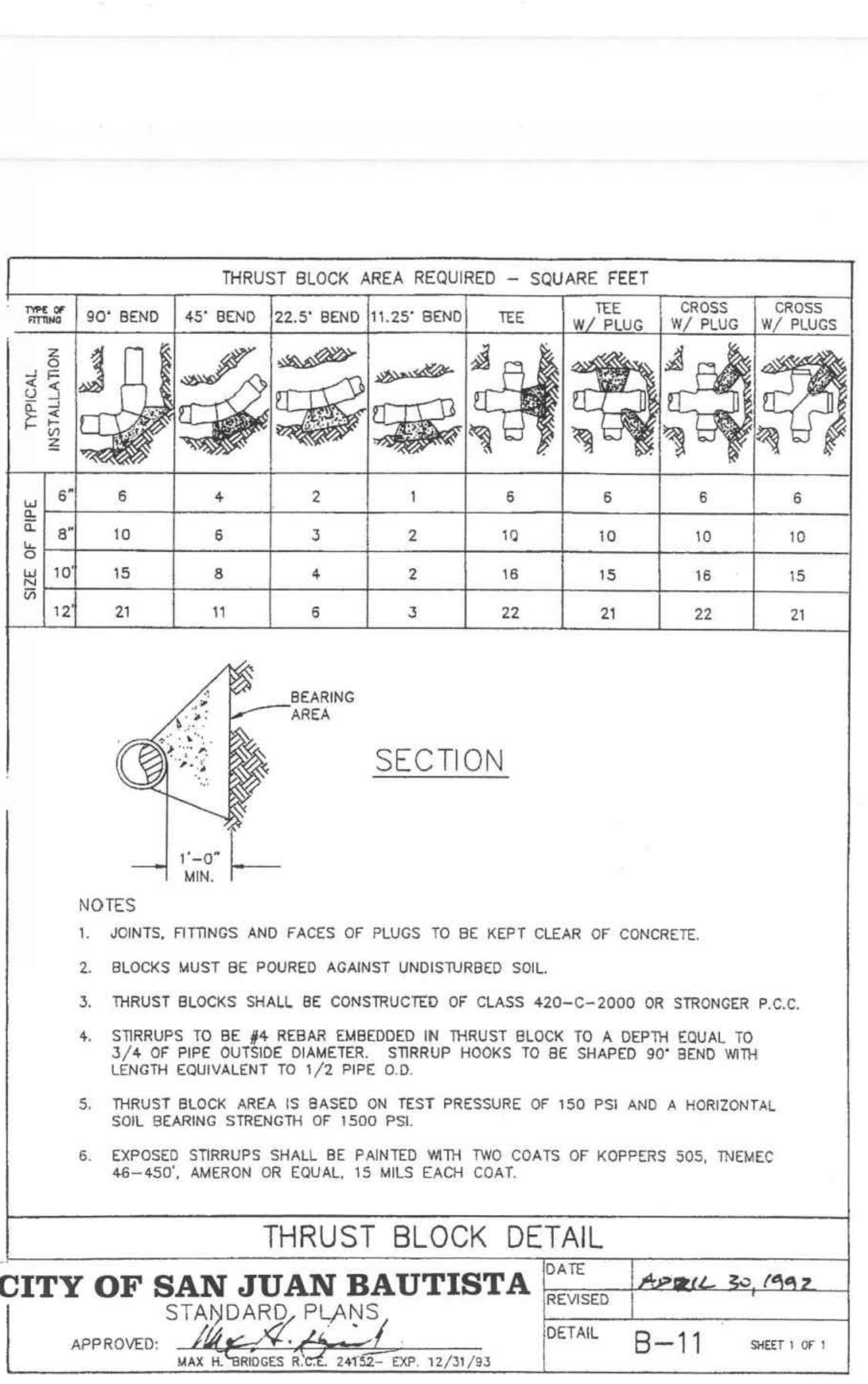
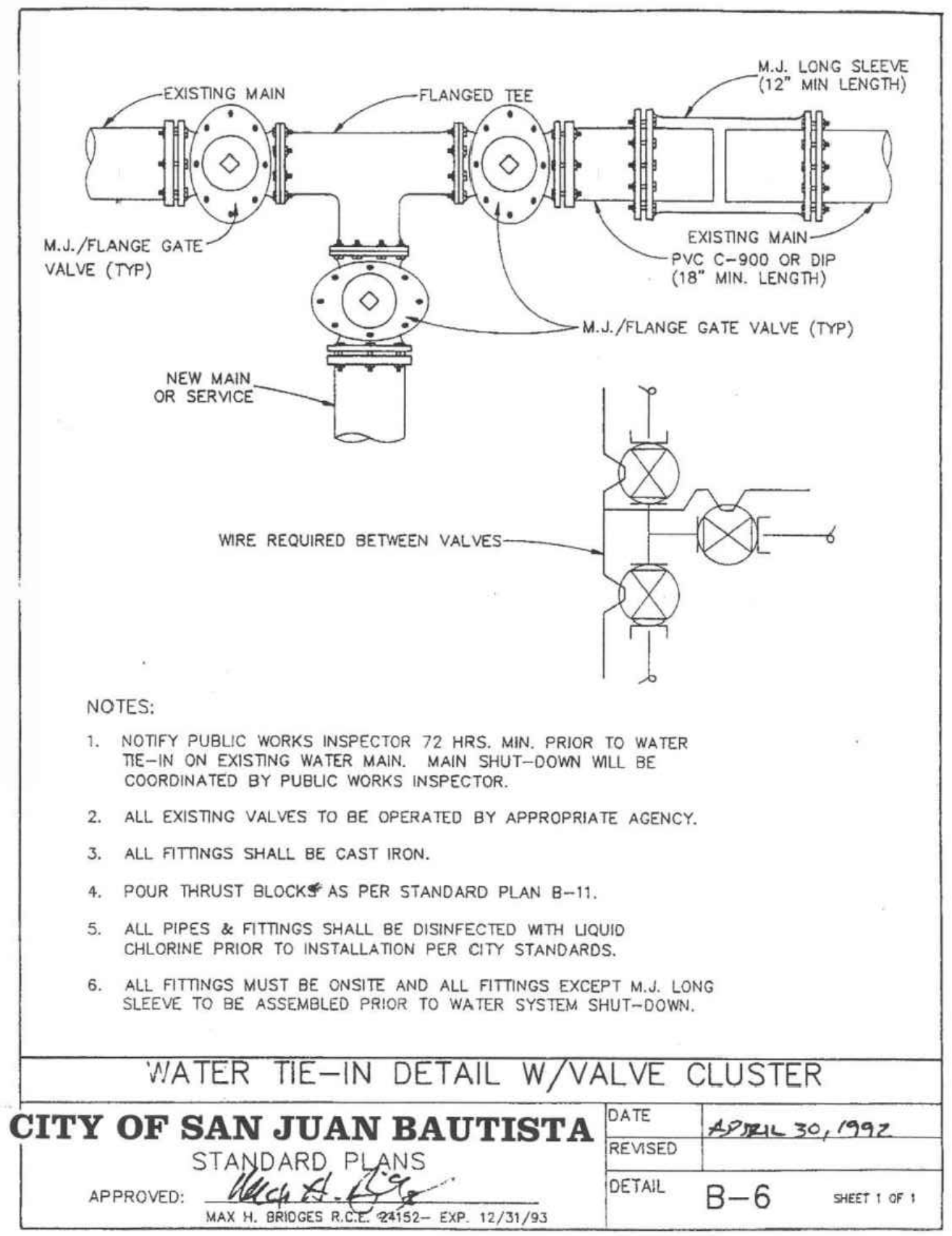


NO.	REVISIONS	DATE
1	RECORD DRAWINGS	01/21

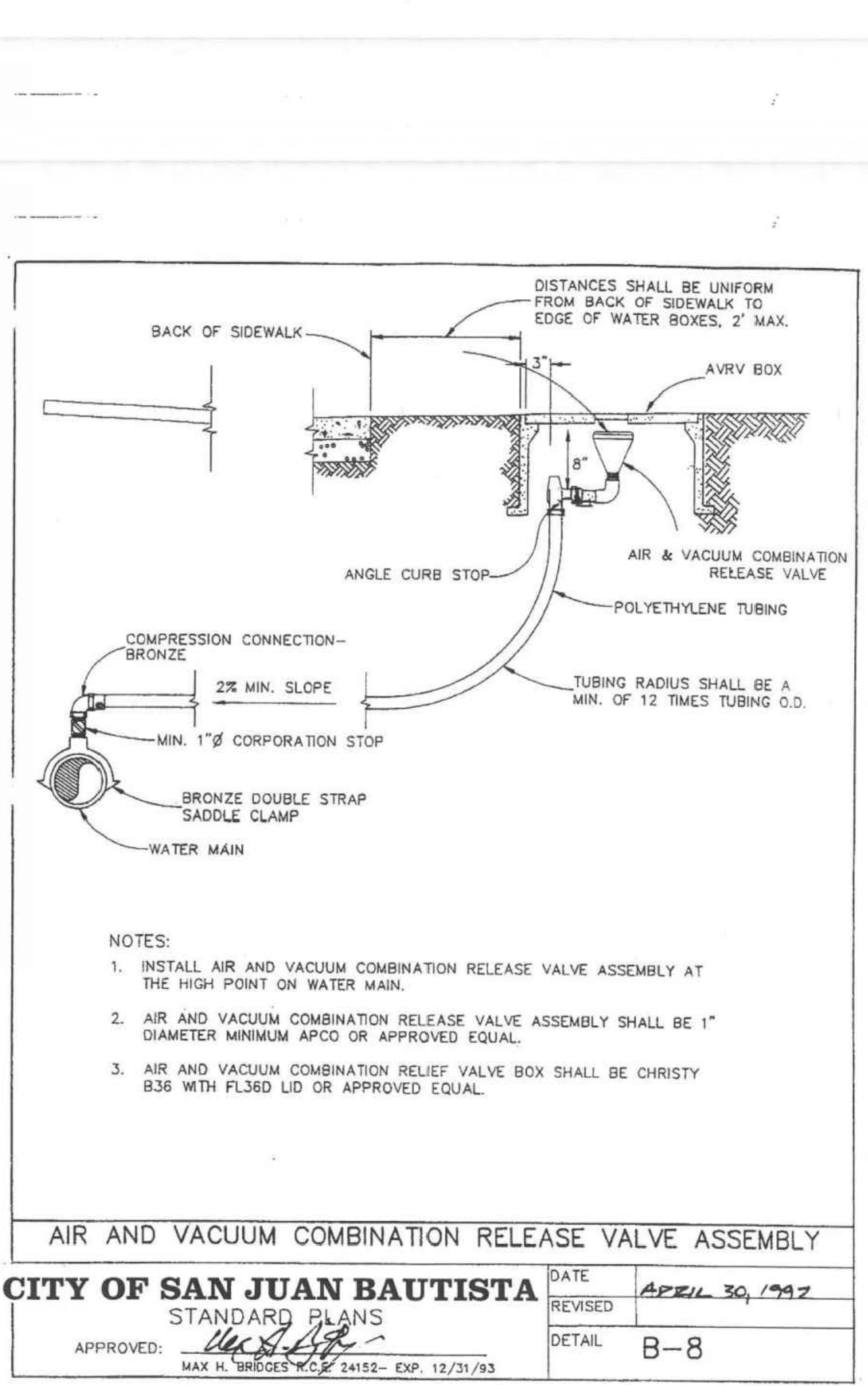
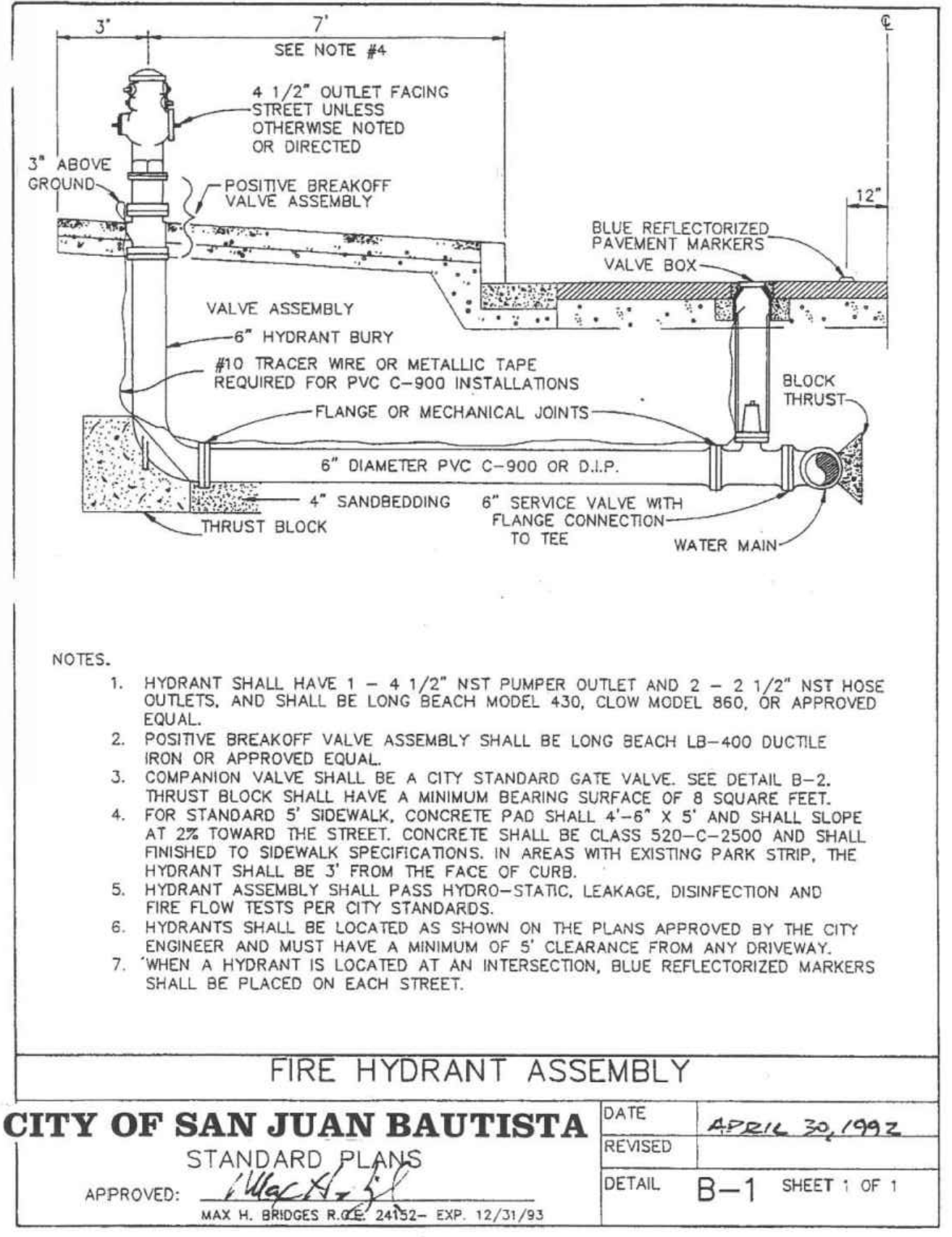
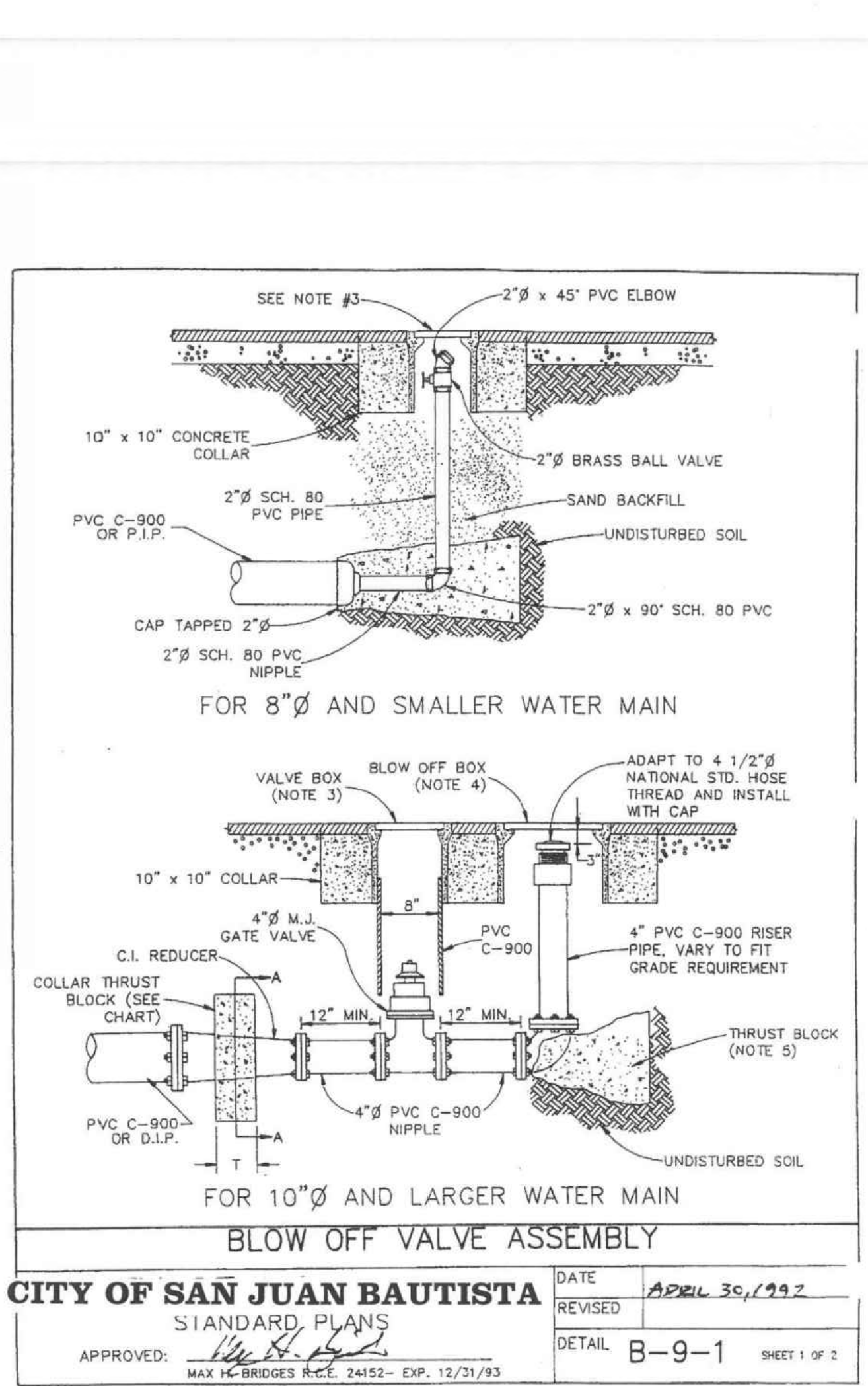
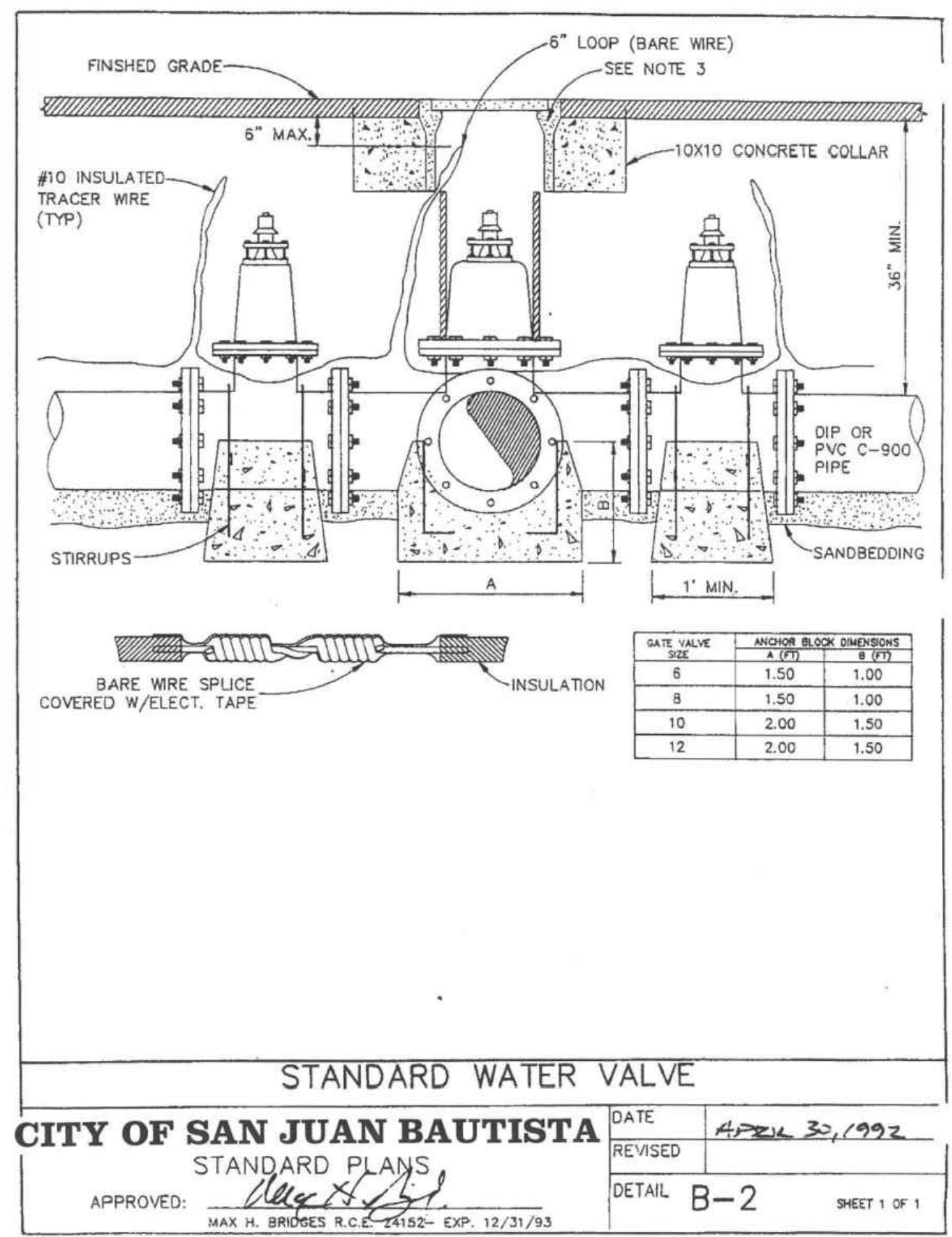
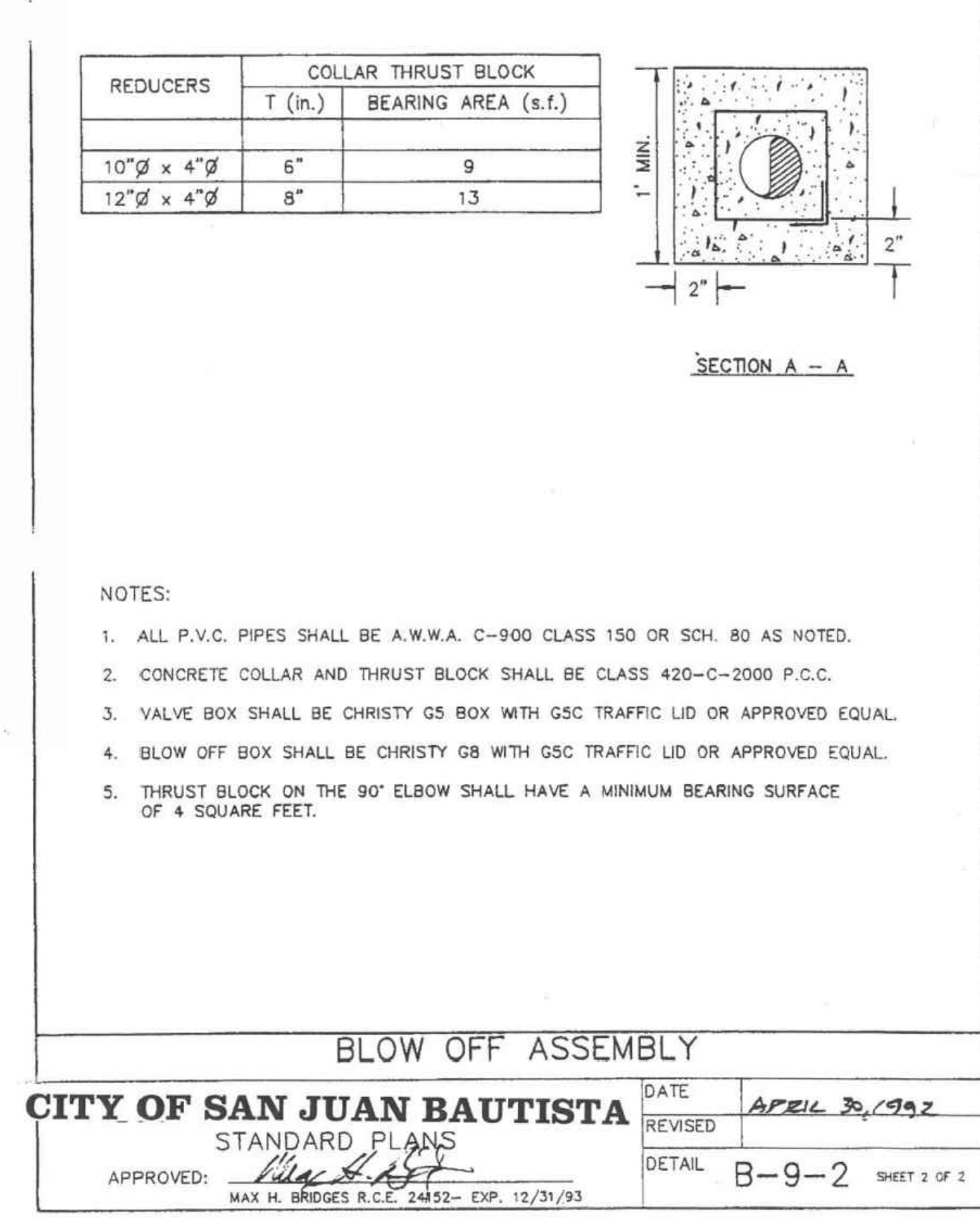
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS

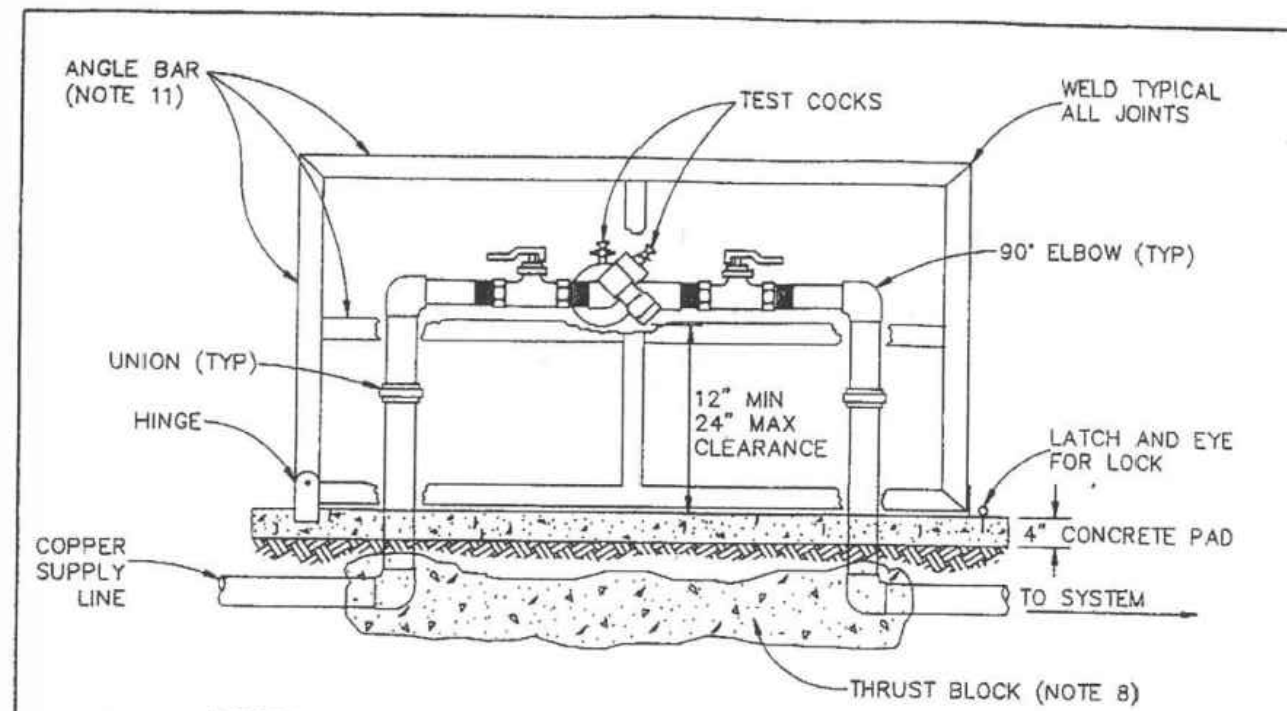
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DATE: 05 January 2021
JOB #: 113071
DWG: 25 DETLS.dwg
SHEET: **25**
OF **34** SHEETS



RECORD DRAWING
IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS
THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.
DATE: JANUARY 8, 2021



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NOTES:

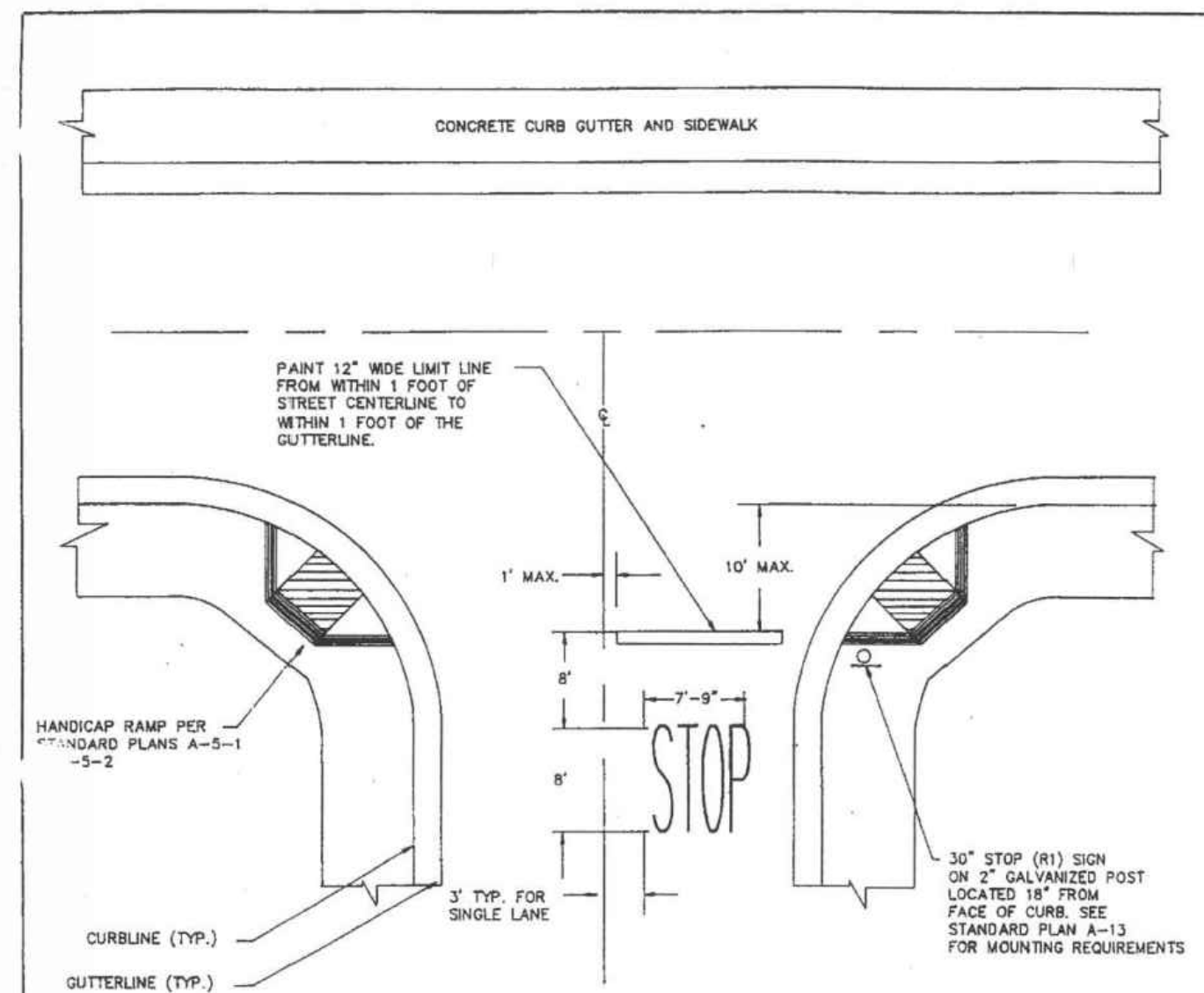
1. REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLIES SHALL BE PERCO B251 OR APPROVED EQUAL. THE ENTIRE ASSEMBLY SHALL BE PROVIDED AS A UNIT, INCLUDING BALL VALVES & TEST COCKS.
2. NO CONNECTIONS OR TEES WILL BE ALLOWED BETWEEN WATER METER & REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER.
3. ALL TUBING SHALL BE TYPE "K" COPPER.
4. INSTALLATIONS USING THREADED OR SOLDERED FITTINGS SHALL INCLUDE ONE THREE PART UNION ON EACH SIDE OF THE ASSEMBLY. SOLDER SHALL BE LEAD FREE.
5. DEVICE MUST BE ACCESSIBLE FOR TESTING & MAINTENANCE.
6. ASSEMBLY SHALL CONFORM TO THE LATEST REVISION OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES APPROVED LIST FOR CROSS-CONNECTION.
7. A TEST OF THE REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER BY A CERTIFIED INDIVIDUAL SHALL BE REQUIRED.
8. THRUST BLOCK SHALL BE CLASS 420-C-2000 P.C.C.
9. CONCRETE PAD TO BE 520-C-2500 P.C.C. TOP OF PAD TO BE LEVEL AND SET 1" MINIMUM ABOVE EXISTING SOIL LEVEL.
10. PAINT CAGE WITH 2 COATS OF RUSTOLEUM MED. GREEN.
11. CAGE DIMENSIONS 24" WIDE X 36" HIGH X 42" LONG. PROVIDE HINGE AS SHOWN WITH LATCH FOR PAD LOCK. SUPPLY 3 KEYS TO CITY.
12. THE CAGE SHALL BE HEAVY EXPANDED FLAT METAL WELDED TO 1 1/2" X 1 1/2" X 1/8" ANGLE BAR.

REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER
(2" & SMALLER)

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*
MAX H. BRIDGES R.C.E. 24152-EXP. 12/31/93

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL B-14 SHEET 1 OF 1



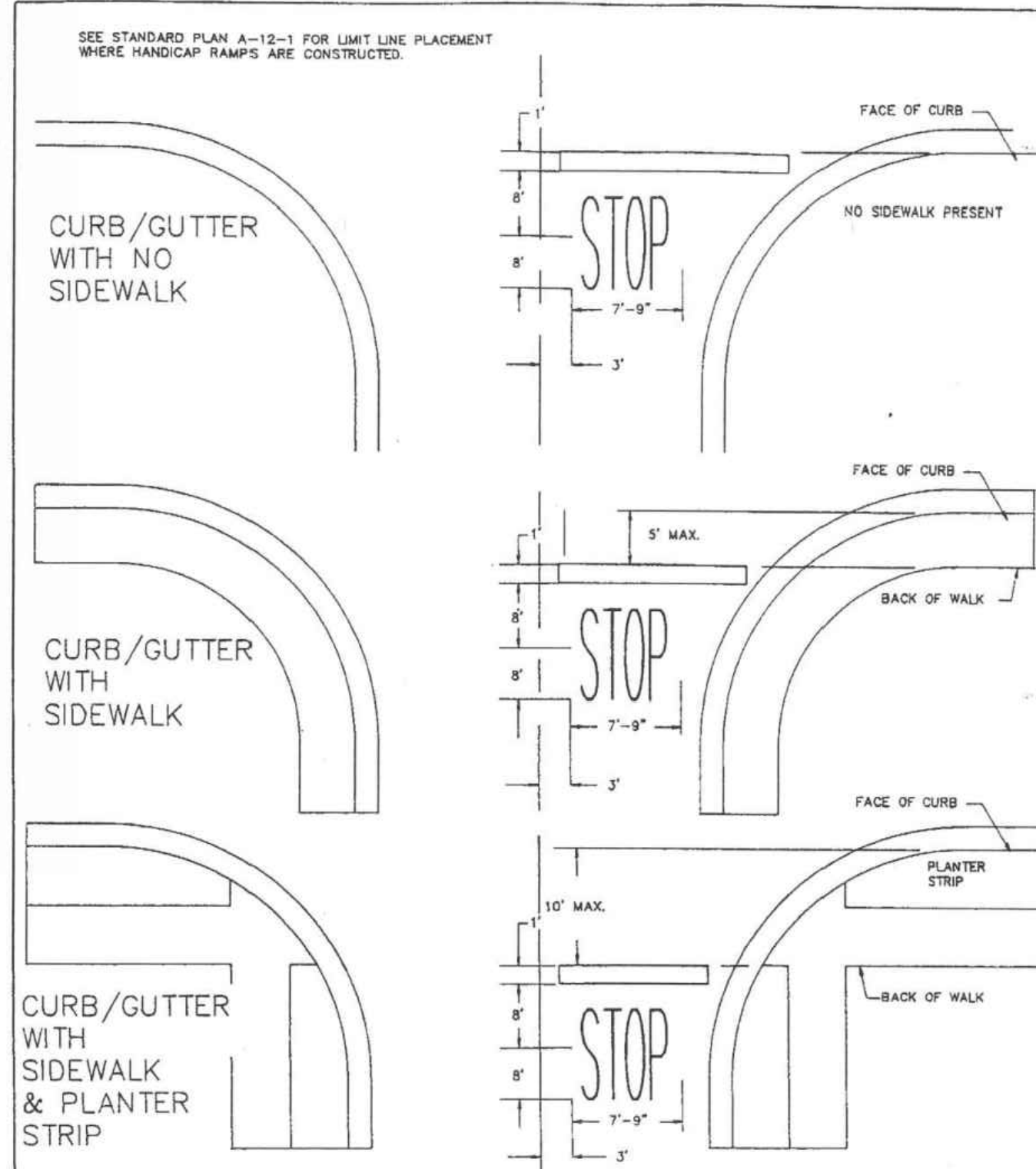
- NOTES:**
1. UNLESS OTHERWISE SPECIFIED, LIMIT LINES AND STOP LEGENDS SHALL BE PAINTED AT ALL STOP SIGN LOCATIONS.
 2. LIMIT LINES SHALL BE PLACED AT HANDICAP RAMP BORDERS OR 10' FROM FACE OF CURB, WHICHEVER IS LESS.
 3. UNDER NO CIRCUMSTANCE SHALL A LIMIT LINE BE USED IN CONJUNCTION WITH A CROSSWALK.
 4. SEE STANDARD PLAN A-12-1 FOR LIMIT LINE PLACEMENT WHERE HANDICAP RAMP ARE NOT PRESENT.

STOP SIGN AND PAVEMENT MARKINGS

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL A 12-1 SHEET 1 OF 1

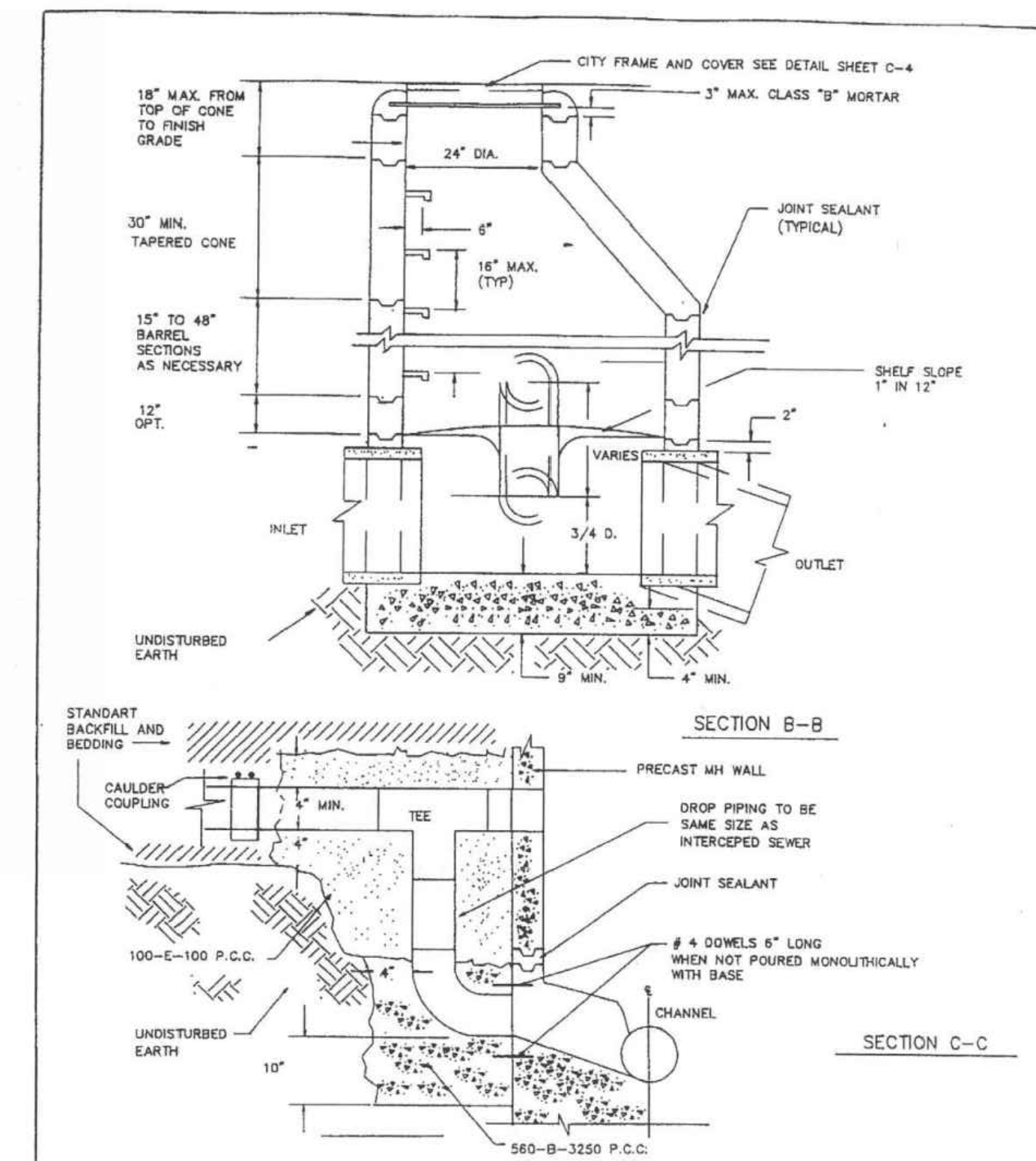


LIMIT LINE PLACEMENT

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL A 12-2 SHEET 1 OF 1



TYPE I ECCENTRIC DROP MANHOLE (6" - 33")

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL C-1-3 SHEET 1 OF 1

- NOTES:**
1. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C 478. AS AN ALTERNATE CURING METHOD, THE UNITS MAY BE CURED USING SATURATED STEAM FOR A MINIMUM OF 12 HOURS, FOLLOWED BY 6 DAYS WATER CURING OR MEMBRANE CURING. IF THE UNITS ARE CURED BY THE ALTERNATE METHOD, THEY SHALL NOT BE SHIPPED PRIOR TO 8 DAYS AFTER CASTING NOR UNTIL THE CONCRETE HAS ATTAINED A STRENGTH OF 3500 P.S.I.
 2. MANHOLE STEPS SHALL BE MODEL PS2-PF AS MANUFACTURED BY M.A. IND. OR APPROVED EQUAL. THE MANHOLE STEPS SHALL BE UNIFORMLY SPACED AT A MAXIMUM OF 18" WITH THE TOP STEP PLACED NO MORE THAN 18" UNDER THE MANHOLE FRAME. THE LOWEST STEP SHALL BE PLACED NOT LESS THAN 8" NOR MORE THAN 24" ABOVE THE SHELF. THE TOP STEP IF PLACED IN THE 24" DIAMETER SECTION SHALL PROJECT 5" INSIDE THE MANHOLE AND ALL OTHER 6".
 3. RISER SECTIONS AND CONES MAY BE REINFORCED OR UNREINFORCED. REINFORCED SECTIONS AND CONES SHALL BE REINFORCED IN ACCORDANCE WITH ASTM C 478 AND SHALL HAVE A MINIMUM WALL THICKNESS OF 4". UNREINFORCED RISER SECTIONS AND CONES SHALL HAVE A MINIMUM WALL THICKNESS OF 6".
 4. JOINTS SHALL BE TONGUE AND GROOVE AND SHALL CONFORM WITH ASTM C 478 SECTION 14.
 5. AN IMPRESSION RING SHALL BE USED PRIOR TO INSTALLING THE FIRST RISER SECTION. PRECAST UNITS SHALL BE ASSEMBLED USING PREFORMED RAM-NEK JOINT SEALING COMPOUND OR CLASS "B" MORTAR.
 6. INSTALL MANHOLE WATER STOP GASKET AND CLAMP ASSEMBLY ON ALL SANITARY SEWER PIPES.

RECORD DRAWING

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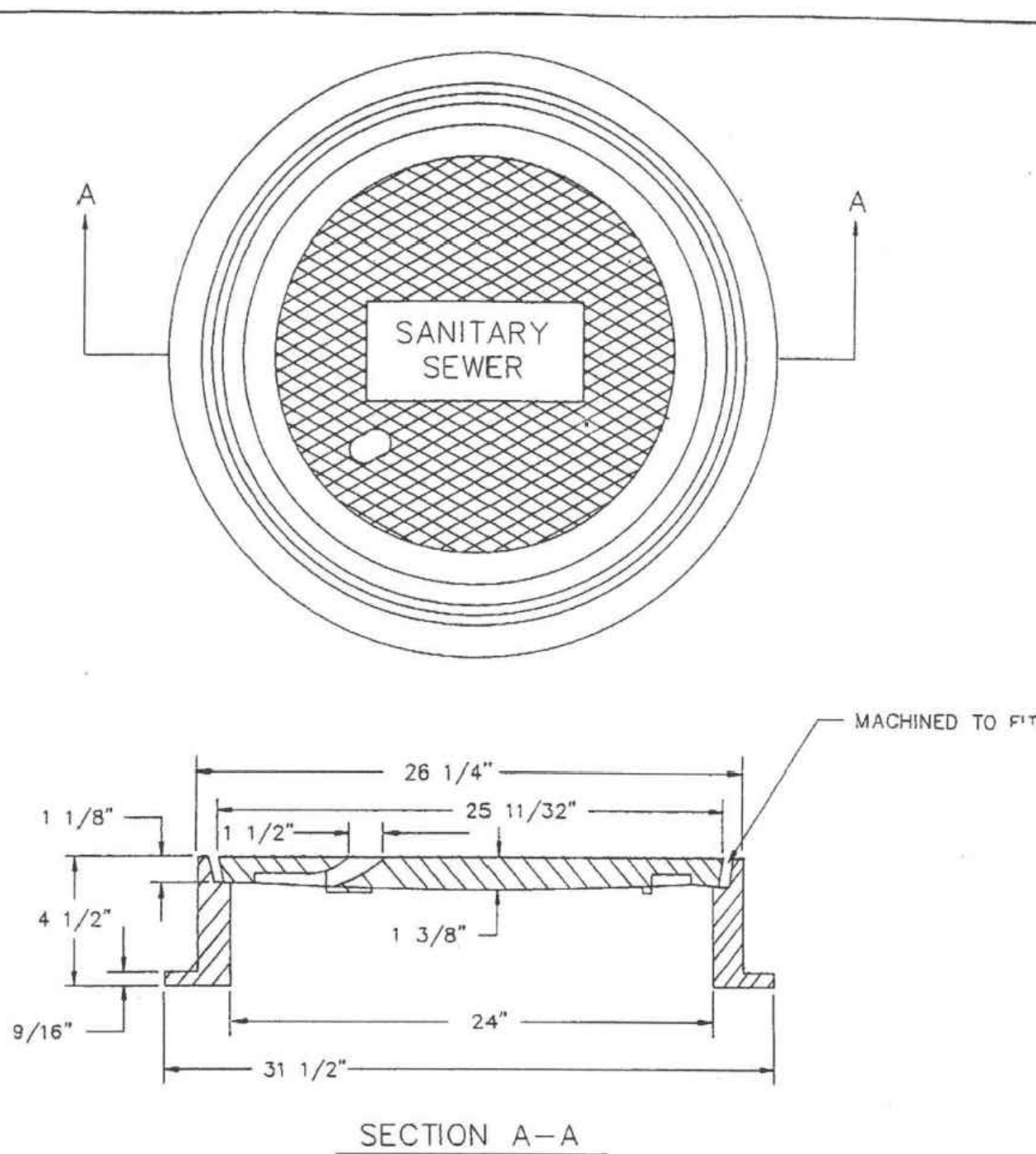
DATE: JANUARY 8, 2021

CONSTRUCTION & MATERIAL NOTES

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL C-2 SHEET 1 OF 1



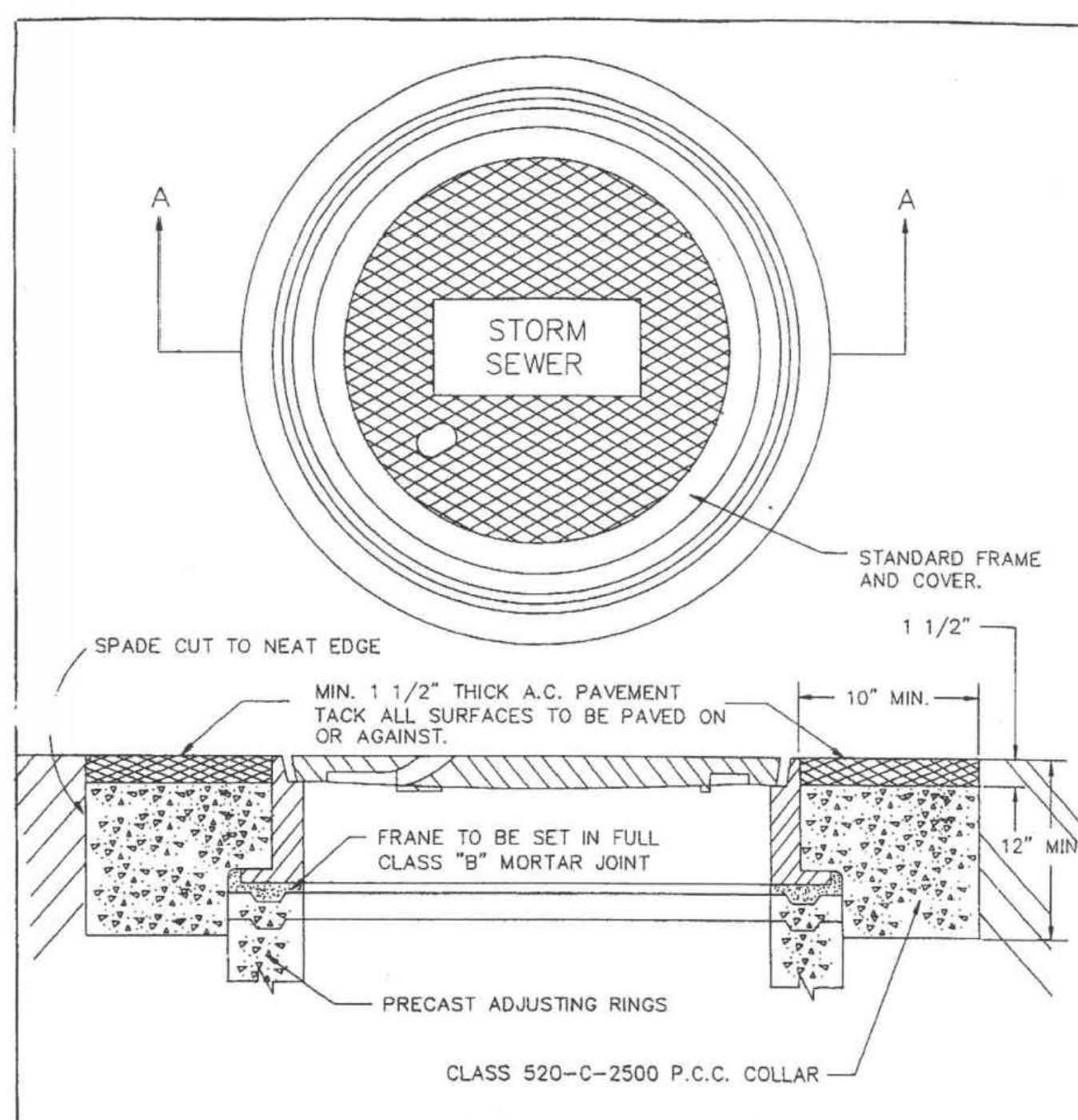
- NOTES:**
1. FRAME AND COVER SHALL BE PHEONIX IRON WORKS # P-1090 OR APPROVED EQUAL, DIPPED IN ASPHALT PAINT.
 2. SPECIFY "SANITARY SEWER" OR "STORM SEWER" AS APPROPRIATE.

MANHOLE FRAME AND COVER

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL C-3 SHEET 1 OF 1

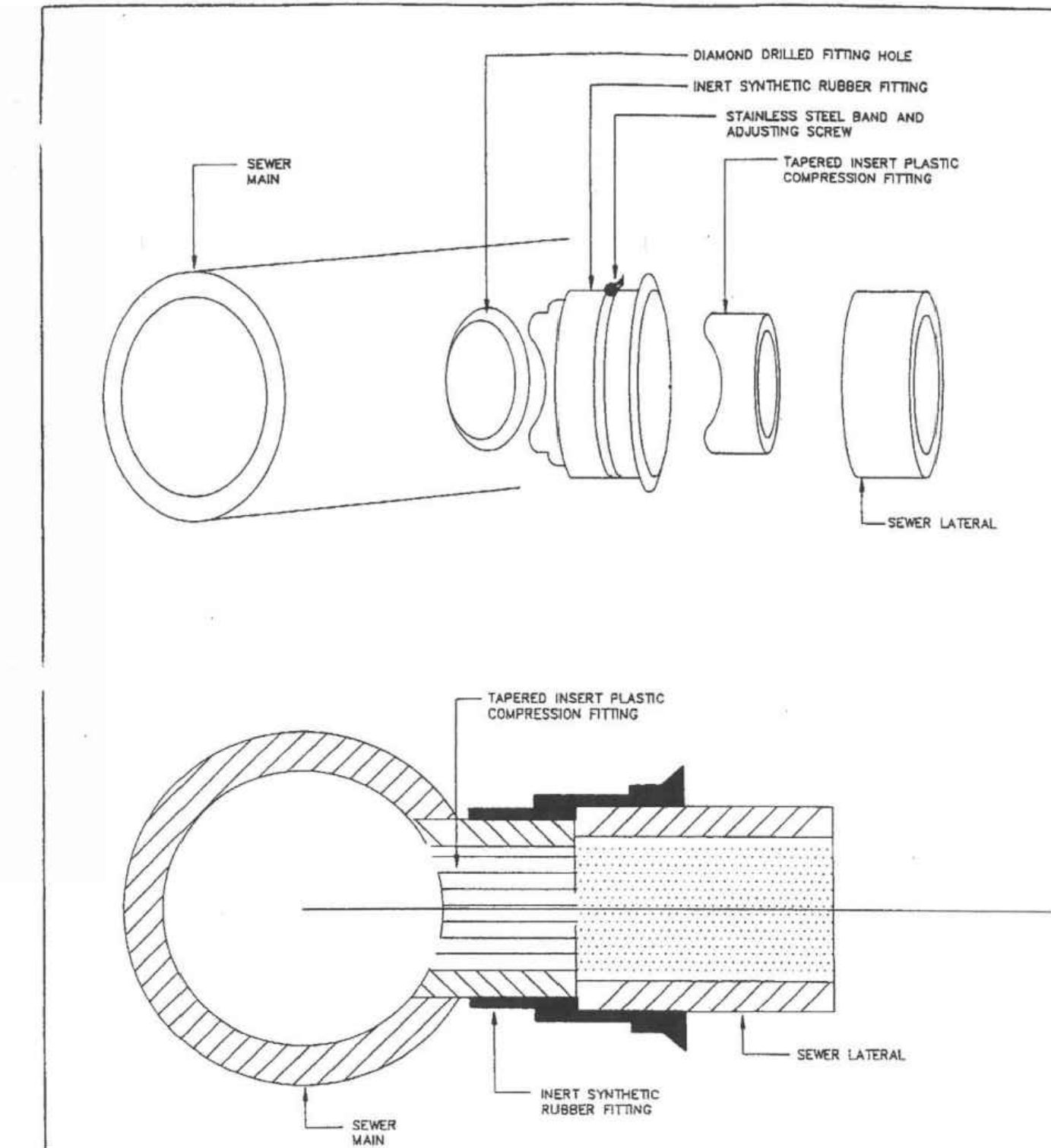


FRAME AND COVER ADJUSTMENT IN PAVEMENT

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL C-4 SHEET 1 OF 1



SEWER LATERAL CONNECTION DETAIL

CITY OF SAN JUAN BAUTISTA
STANDARD PLANS
APPROVED: *[Signature]*

DATE	APRIL 30, 1992
REVISIONS	
RECORD DRAWINGS	
NO.	

DETAIL C-6 SHEET 1 OF 1

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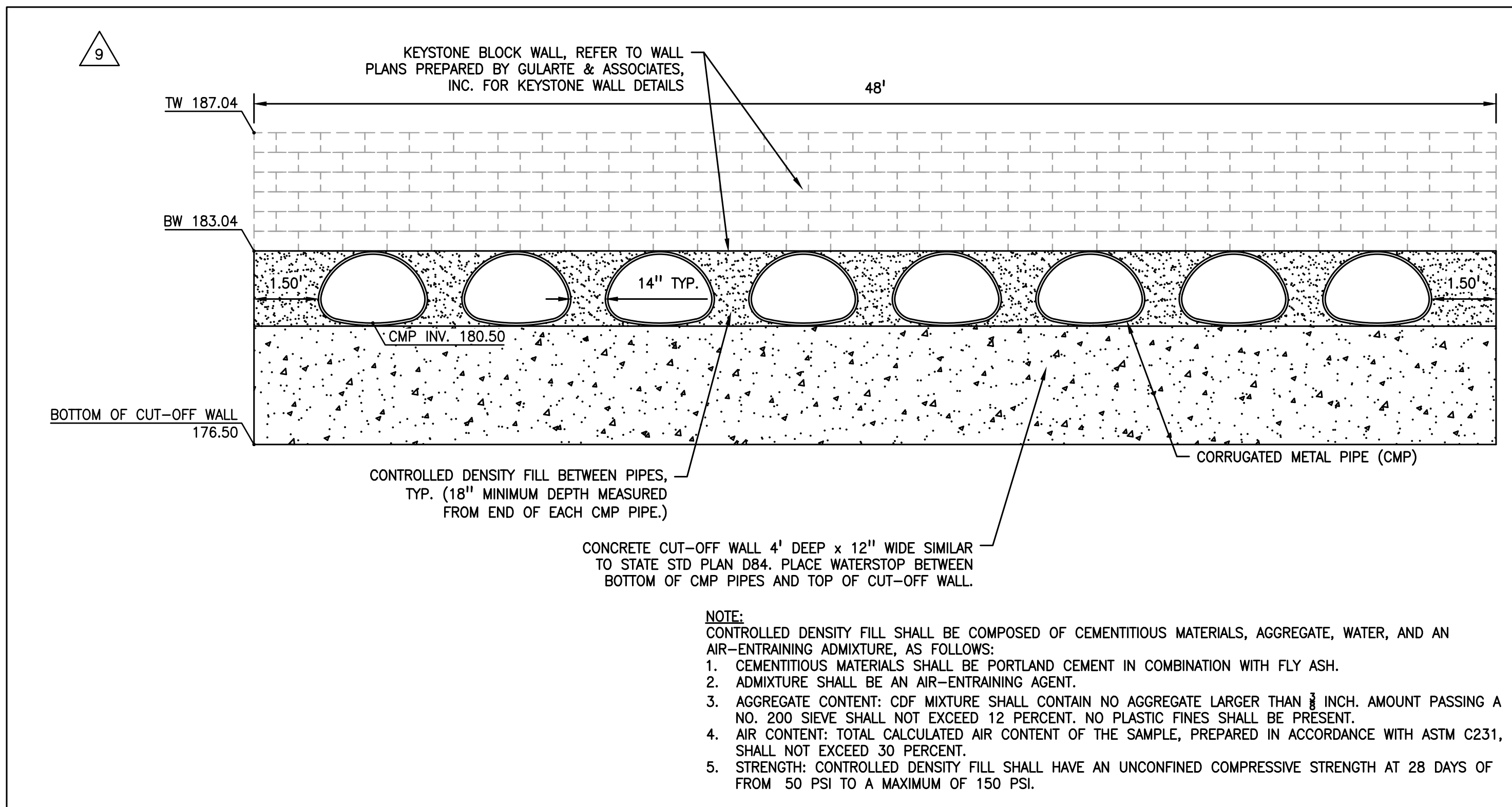
NO.	REVISIONS	DATE
1		01/21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

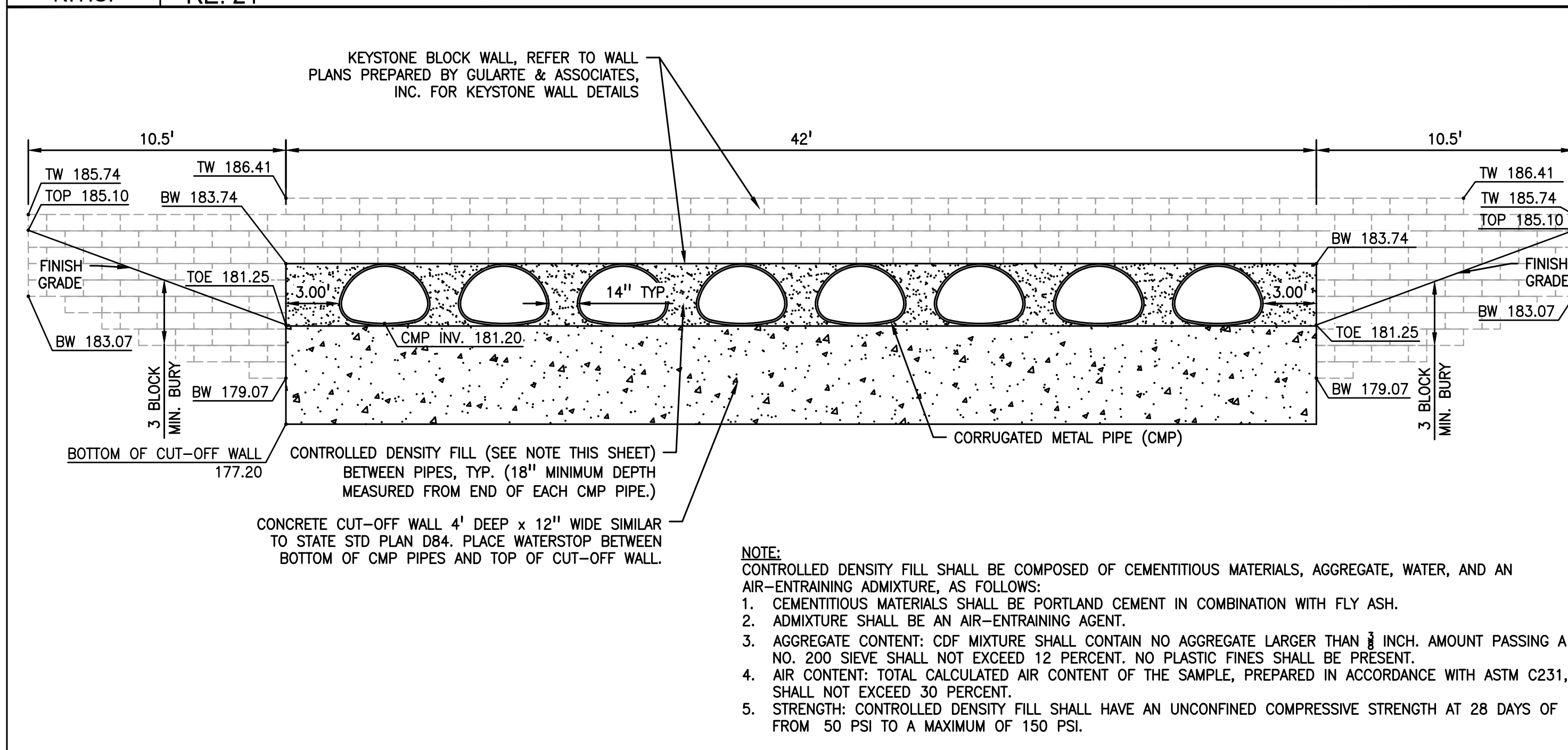
IMPROVEMENT PLAN
DETAILS

SCALE: SCALE AS NOTED
DATE: 05 January 2021
JOB #: 113071
DWG: 26 DETLS.dwg

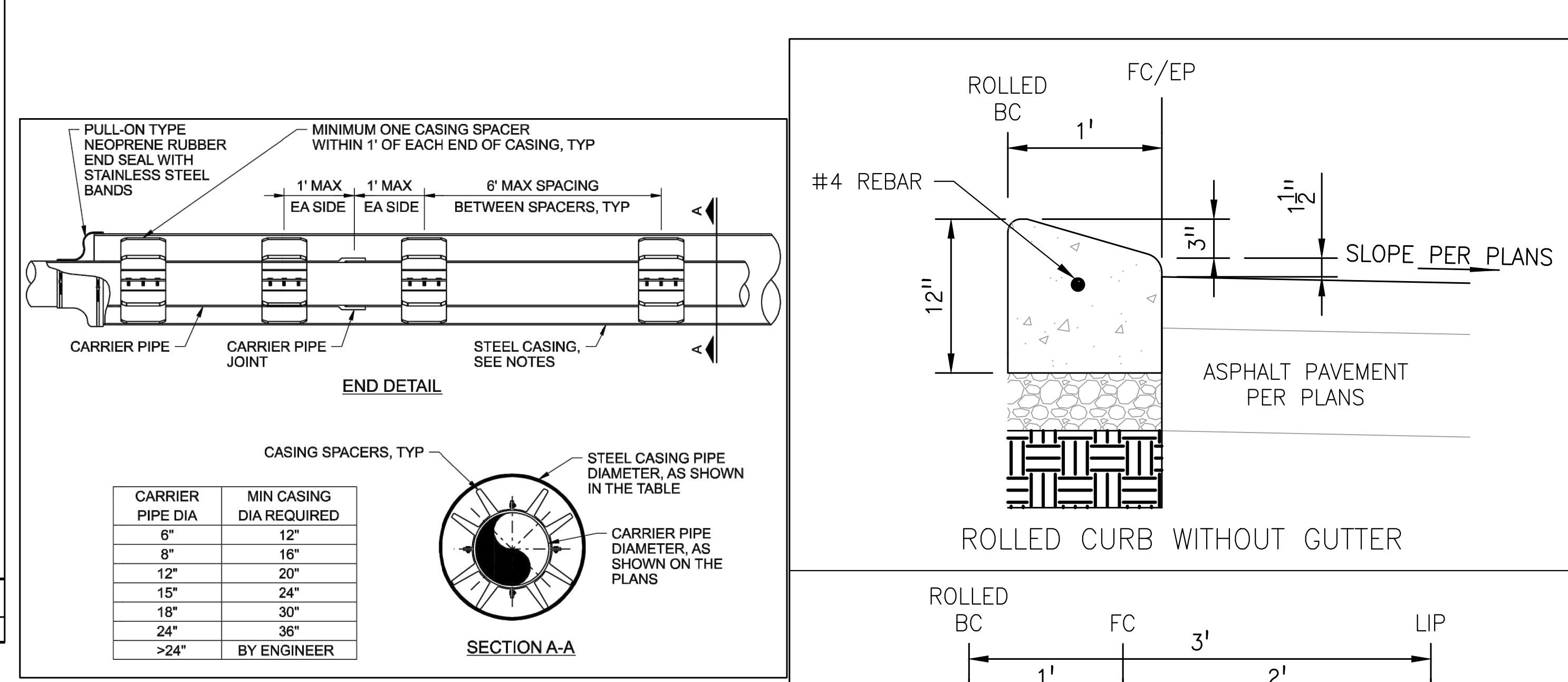
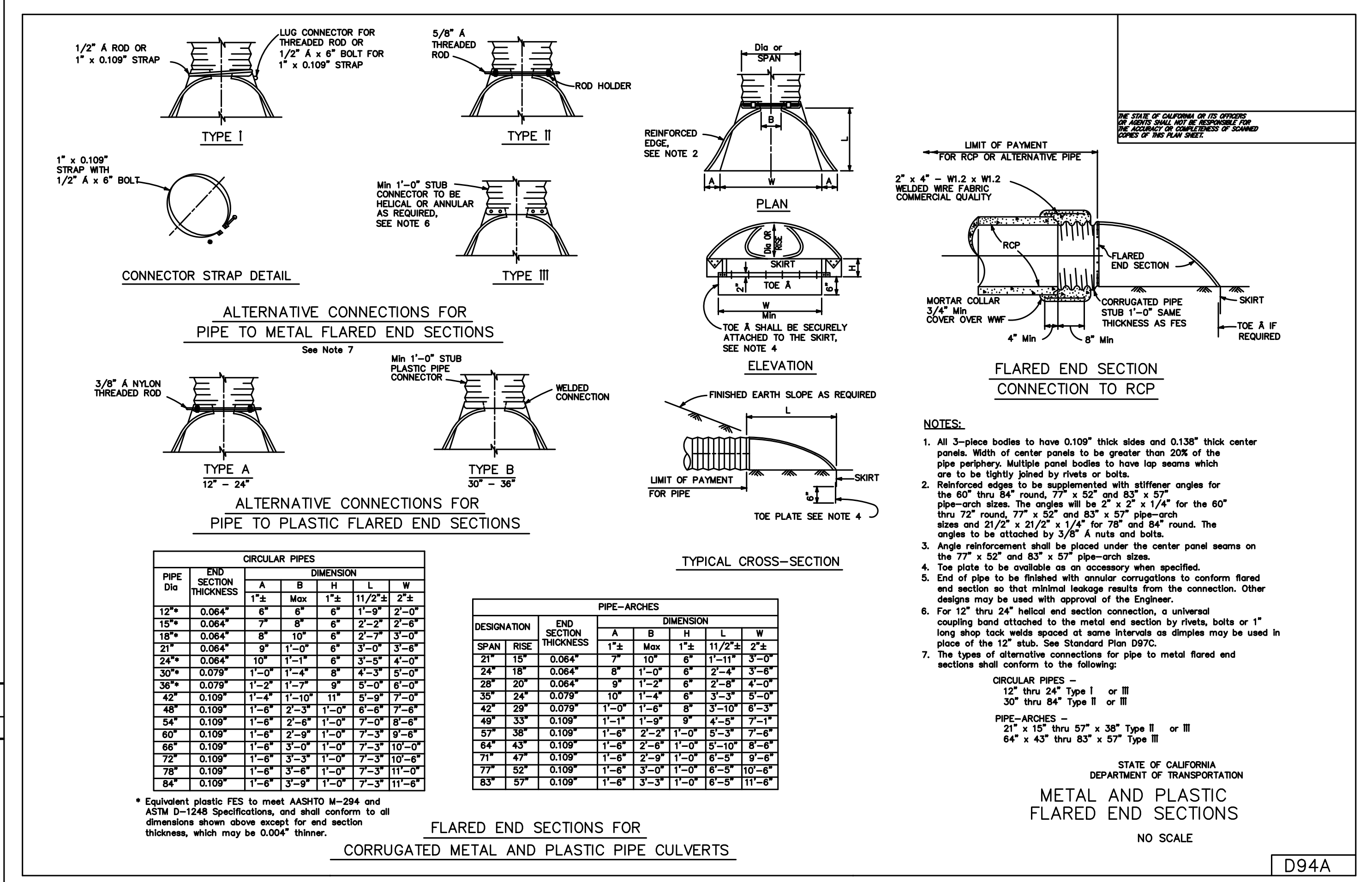
SHEET: **26**
OF **34** SHEETS



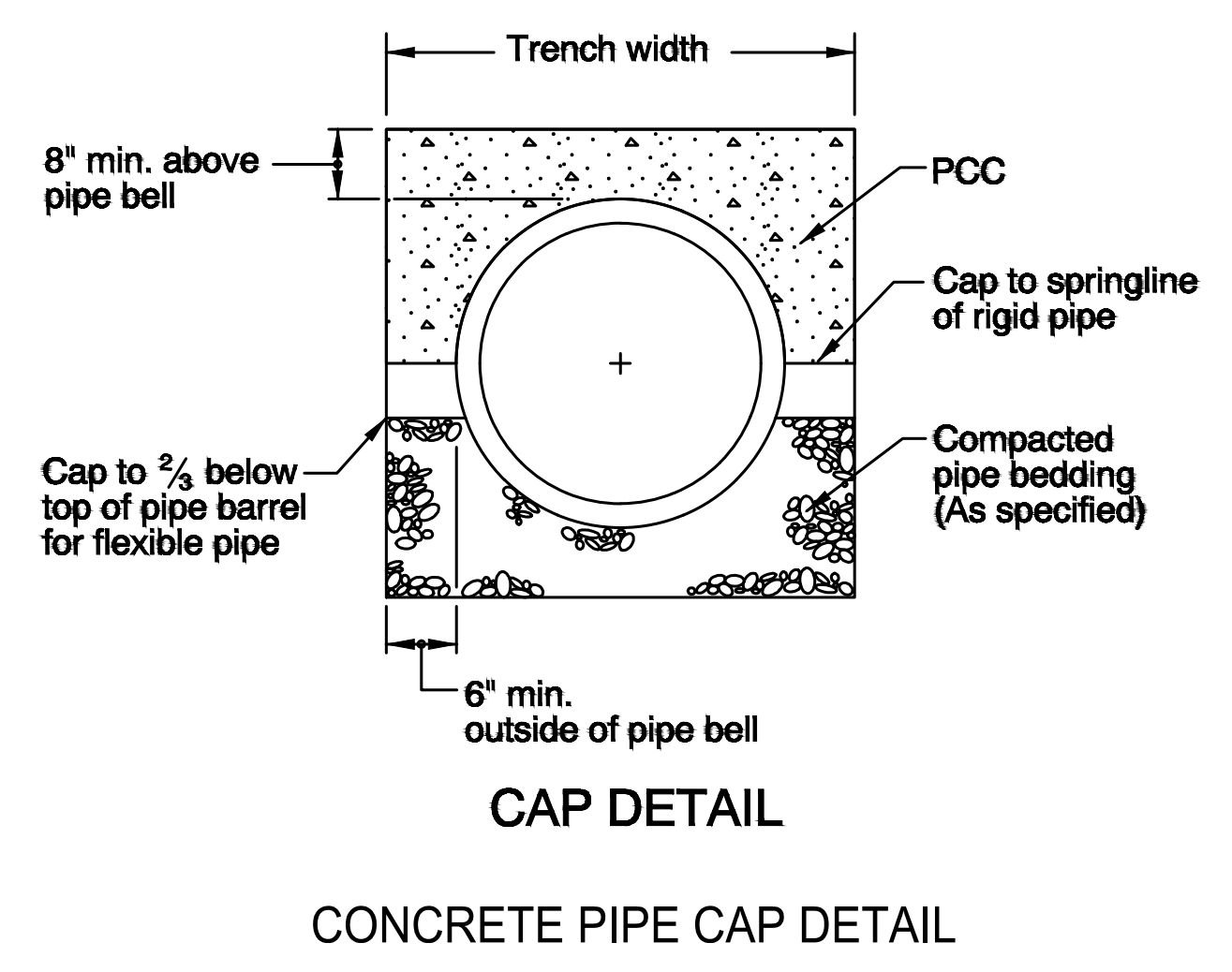
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N.T.S.	RE: 21



2	THIRD STREET CMP CULVERTS CROSS SECTION B
N.T.S.	RE: 21



3	ROLLED TYPE CURB DETAIL
N.T.S.	RE: 18, 19



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DATE: JANUARY 8, 2021

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
 SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS

SCALE: SCALE AS NOTED
 DATE: 05 January 2021
 JOB #: 113071
 DWG: 27 DETLS.dwg

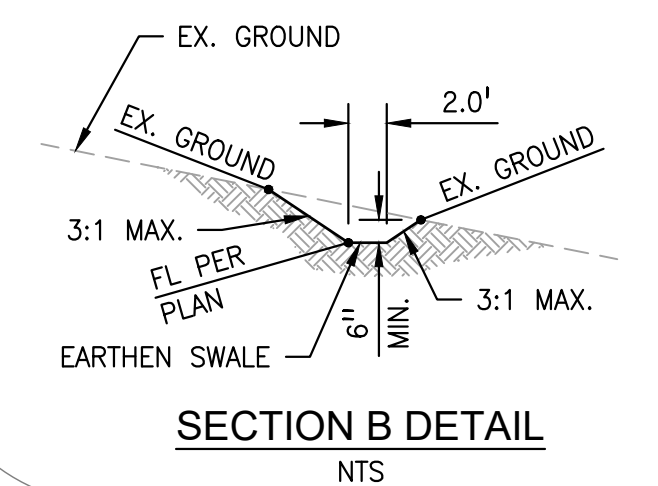
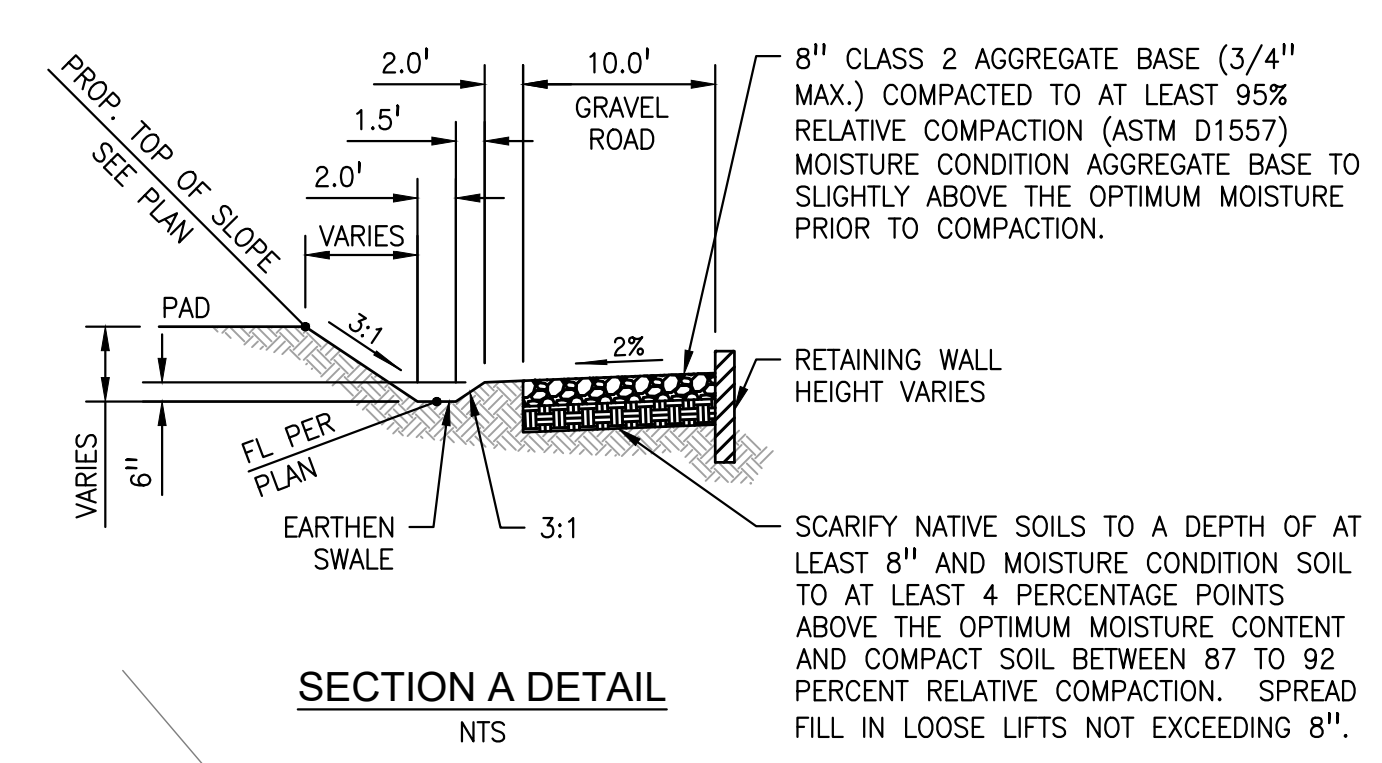
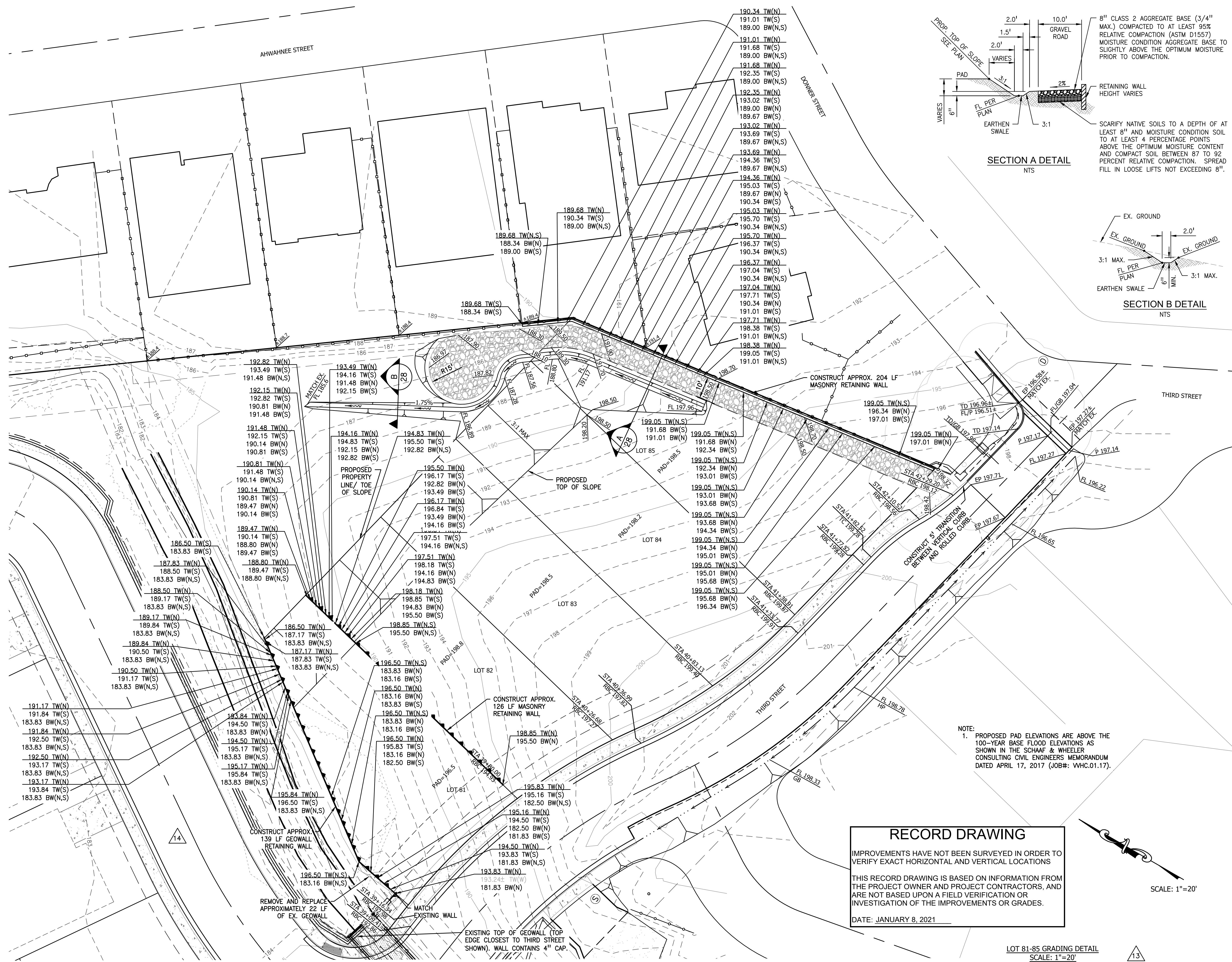
SHEET: **27**
 OF **34** SHEETS

REVISIONS
 NO. DATE BY REVISIONS
 1 10.17 RET. WALL REVISIONS
 2 11.17 CURB REVISIONS
 3 01.21 RECORD DRAWINGS

CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

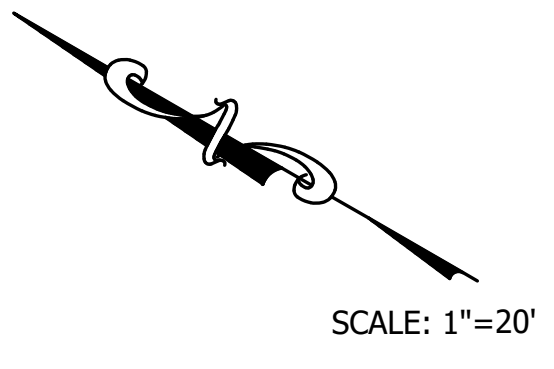
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NOTE:
1. PROPOSED PAD ELEVATIONS ARE ABOVE THE 100-YEAR BASE FLOOD ELEVATIONS AS SHOWN IN THE SCHAFF & WHEELER CONSULTING CIVIL ENGINEERS MEMORANDUM DATED APRIL 17, 2017 (JOB#: VHC.01.17).

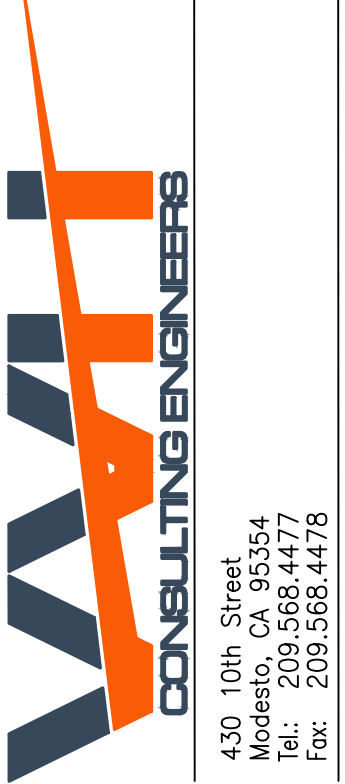
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DATE: JANUARY 8, 2021



SCALE: 1"=20'

LOT 81-85 GRADING DETAIL
SCALE: 1"=20'

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420 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

NO.	REVISIONS	DATE
1	CLARIFY END REVISIONS	07:17
2	OMITTED AND ADDED DETAILS	07:18
3	LOT 81 RETAINING WALL REV	10:18
4	RECORD DRAWINGS	01:21

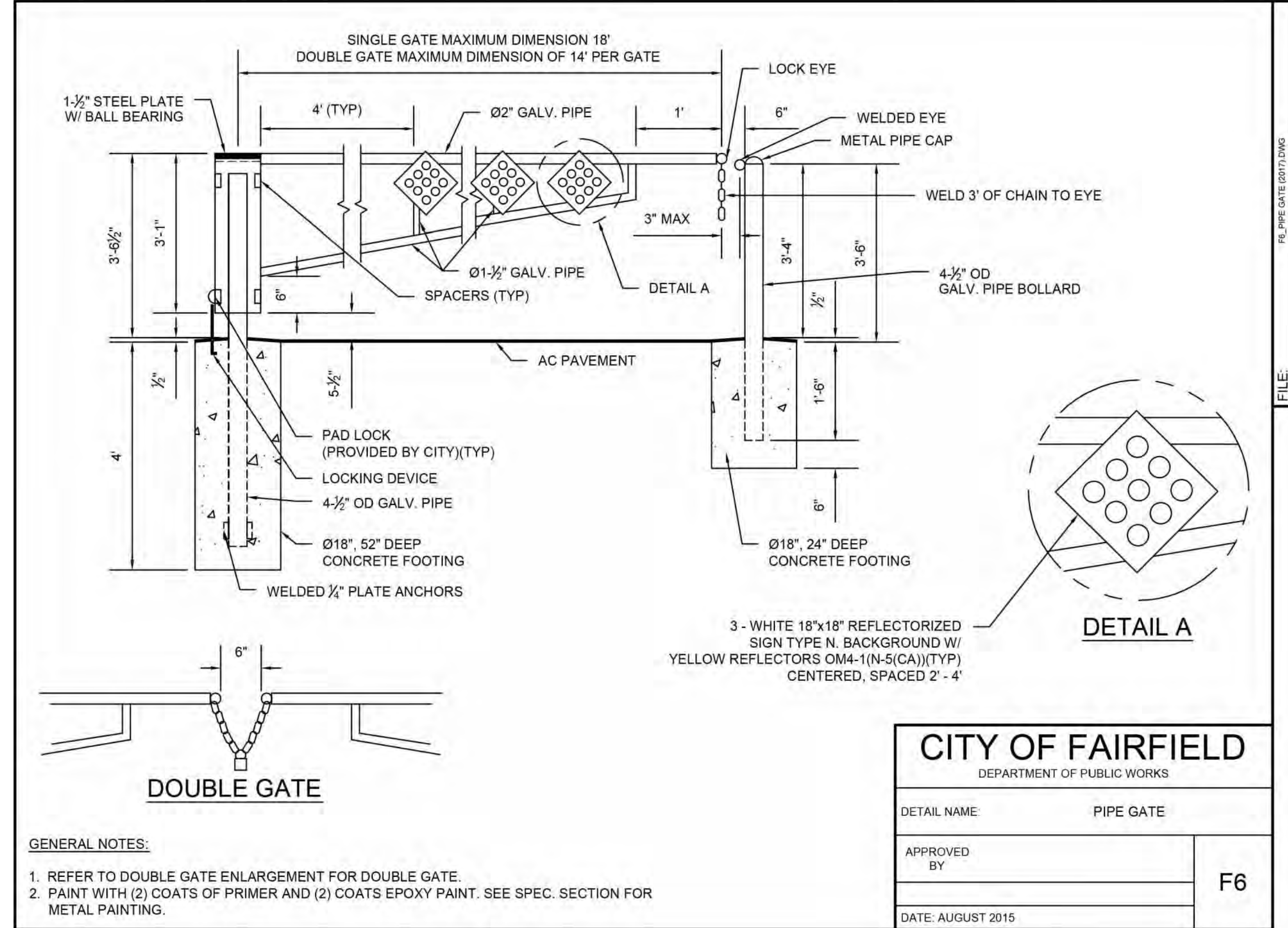
CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS

SCALE: SCALE AS NOTED
DATE: 05 January 2021
JOB #: 113071
DWG #: 28_DETLS.dwg

SHEET: **28**
OF **34** SHEETS

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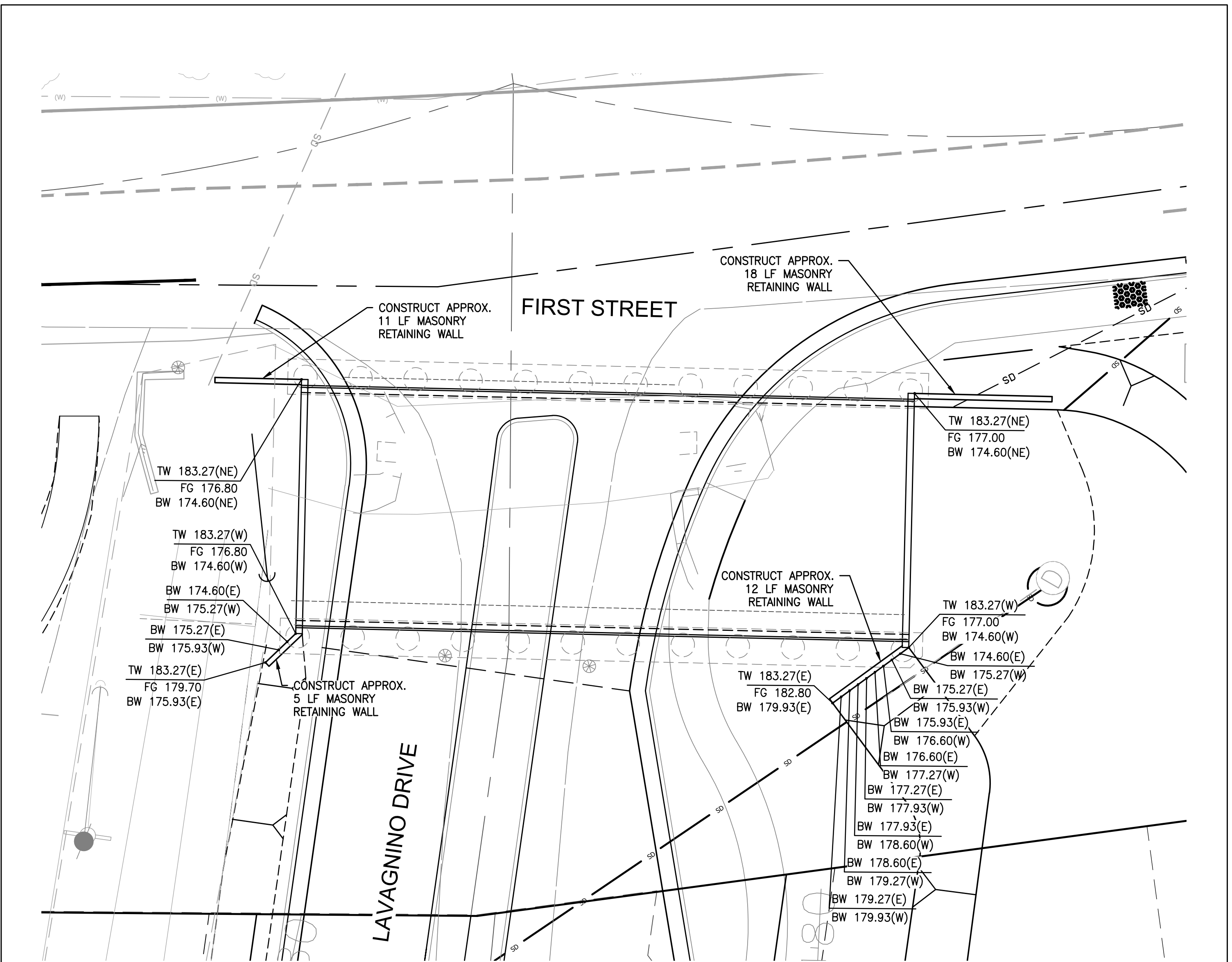
CITY OF FAIRFIELD
DEPARTMENT OF PUBLIC WORKS

DETAIL NAME: PIPE GATE

APPROVED BY: _____

DATE: AUGUST 2015

F6



10 RETAINING WALL GRADING DETAIL
1" = 10'

RECORD DRAWING

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WACE CONSULTING ENGINEERS

430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

NO.	REVISIONS	DATE
1	RECORD DRAWING	01.21

CITY OF SAN JUAN BAUTISTA
RANCHO VISTA
SAN BENITO COUNTY, CALIFORNIA

IMPROVEMENT PLAN
DETAILS

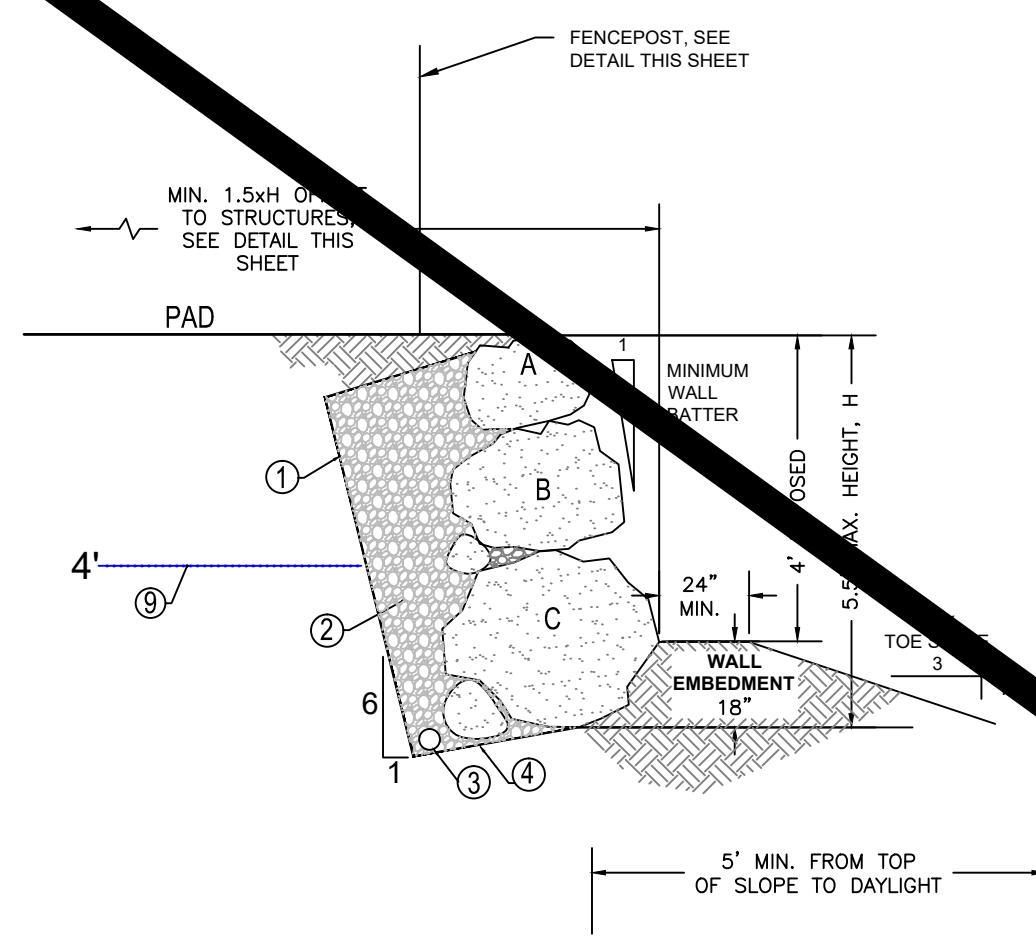
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DATE: 06 January 2021
JOB #: 113071
DWG: 28A_DETLS.dwg

SHEET: **28A**
OF 34 SHEETS

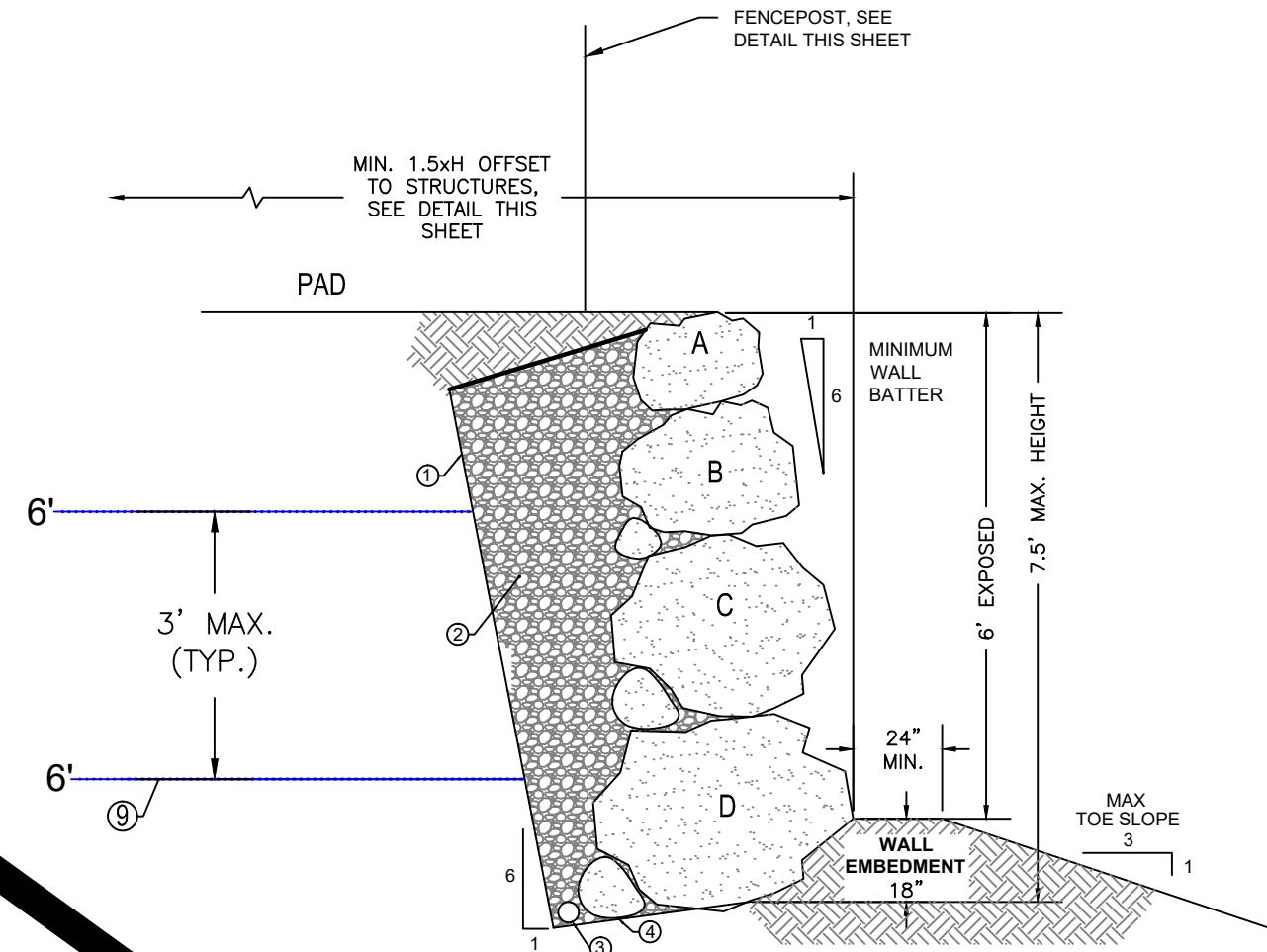
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ROCKERY RETAINING WALL DETAILS

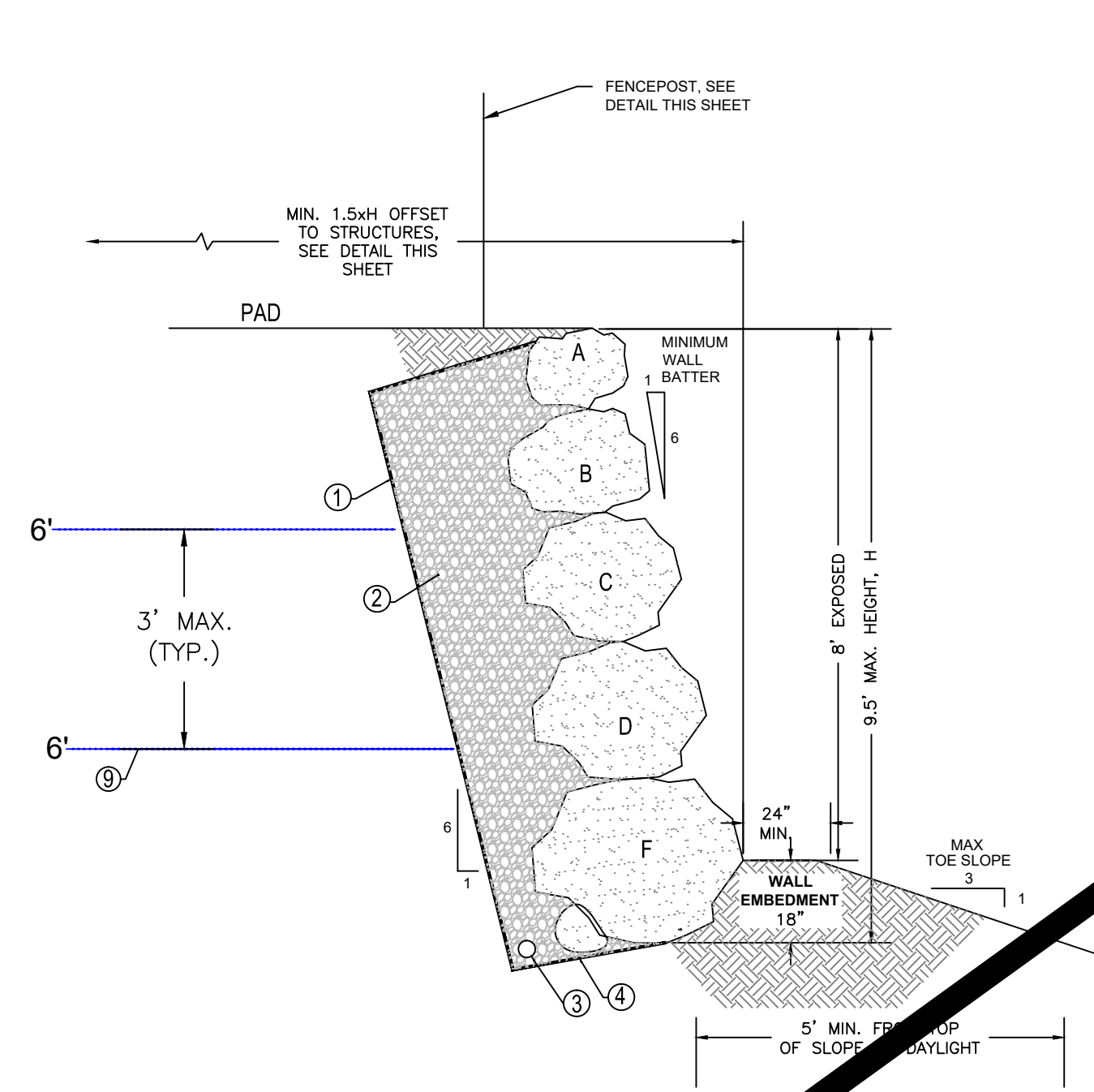
RANCHO VISTA SUBDIVISION - SAN BENITO COUNTY



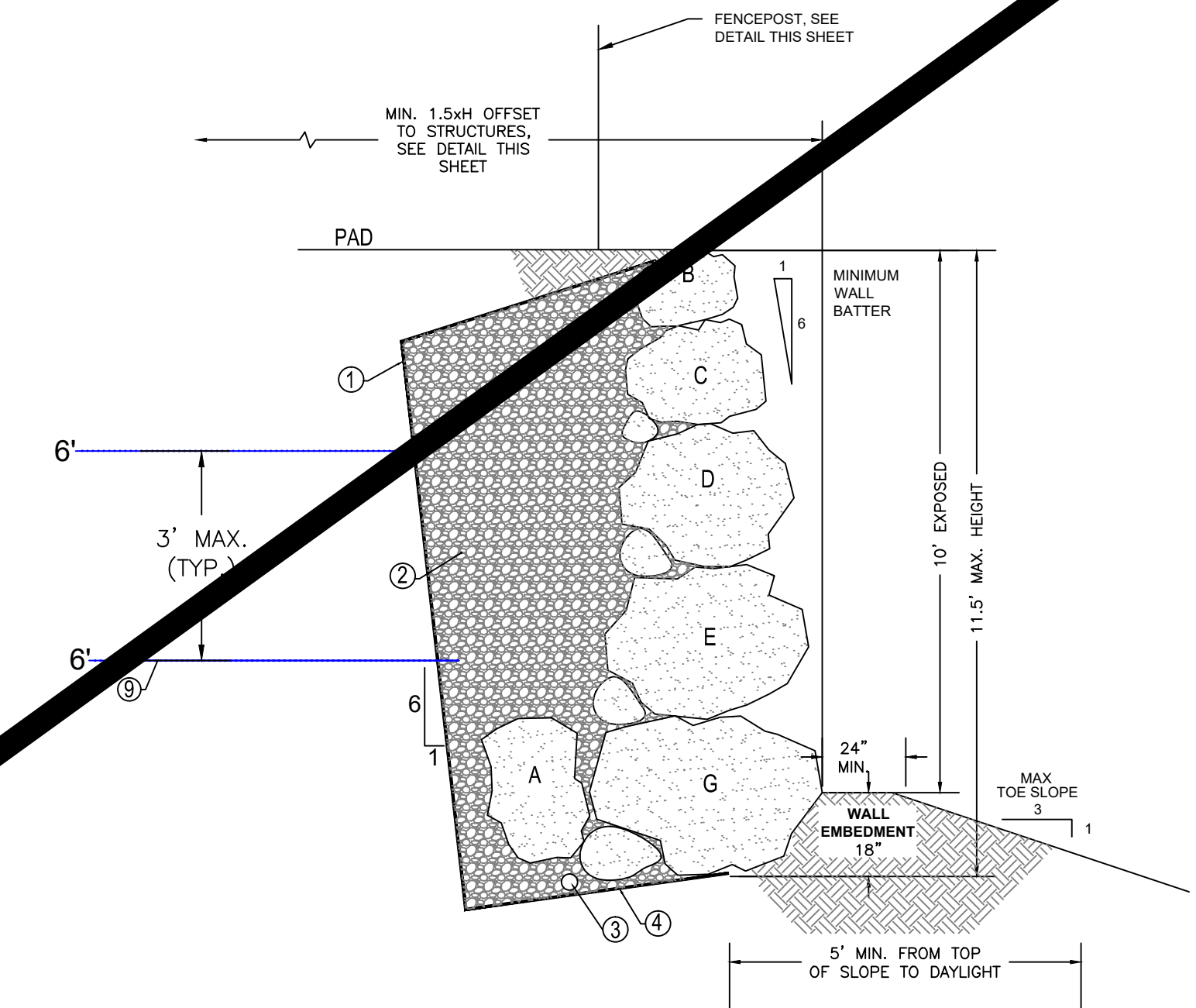
0 TO 4' ROCKERY RETAINING WALL
NOT TO SCALE



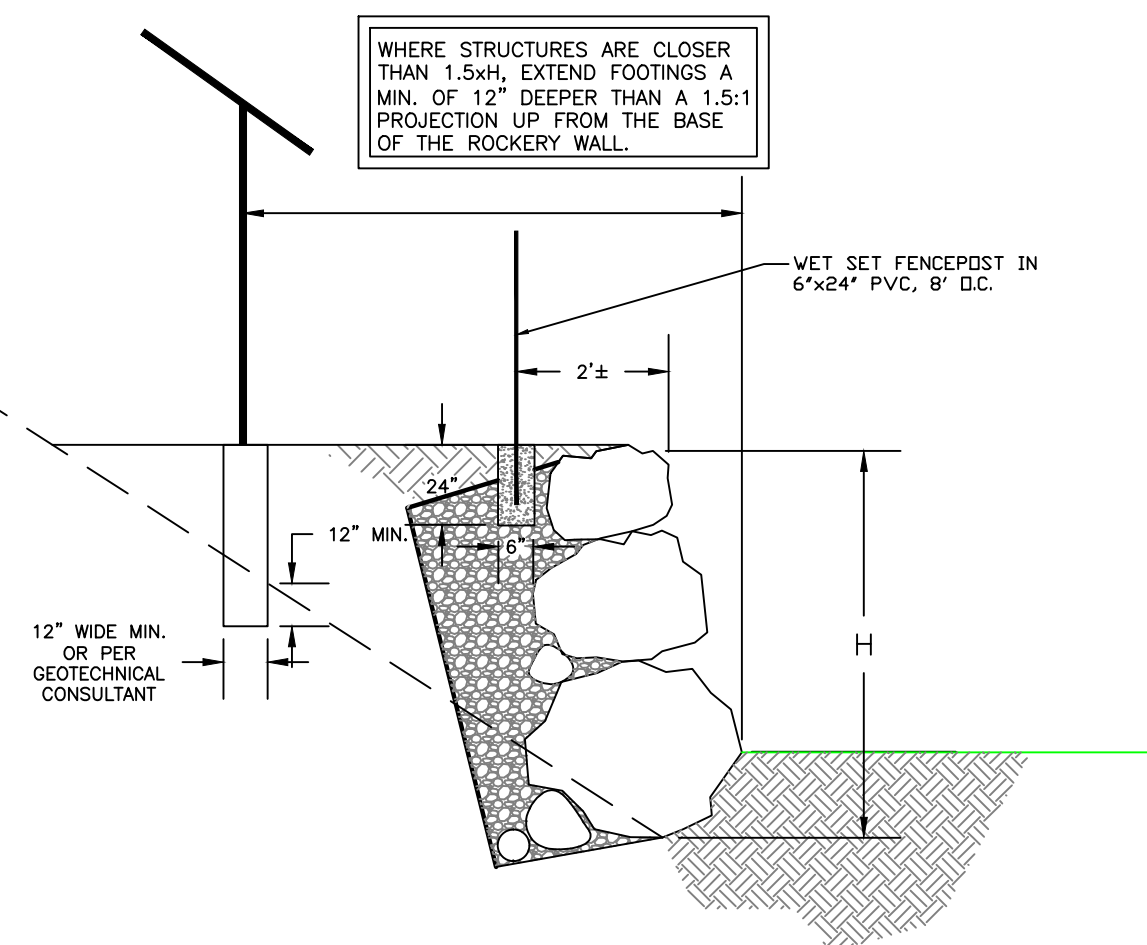
4 TO 6' ROCKERY RETAINING WALL
NOT TO SCALE



6 TO 8' ROCKERY RETAINING WALL
NOT TO SCALE



8 TO 10' ROCKERY RETAINING WALL
NOT TO SCALE



STRUCTURE SETBACK DETAIL
NOT TO SCALE

DESIGN NOTES:

1. GEOTEXTILE FILTER FABRIC: MIRAFI 140N OR EQUIVALENT.
2. 3" TO 6" CLEAN CRUSHED GRANULAR ROCK MIN. THICKNESS 12"
3. CONTINUOUS 4" DIA. SCHEDULE 40 AISC OR SDR 35 PERFORATED DRAIN PIPE, SLOPE @ 1% MIN, OUTLET AT BASE OF WALL. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
5%-10% GRADE TO BACK OF KEY.
4. NO STRUCTURE WITHIN 5' OF BASE OF WALL, OR WITHIN 5' BEHIND/ABOVE WALL, EXCEPT SIDEWALK. SEE DETAIL, THIS SHEET.
5. EMBEDMENT: THE MINIMUM EMBEDMENTS SHOWN ARE TO BE EXCAVATED IN STRUCTURAL FILL AND/OR UNDISTURBED NATIVE MATERIAL, PER SOILS REPORT. TOPSOIL/LANDSCAPING WILL NOT CONTRIBUTE TO THE MINIMUM REQUIRED EMBEDMENT DEPTH.
6. 90% MINIMUM COMPACTION PER ASTM D1557 REQUIRED FOR ALL ROCKERY WALL BACKFILL. SEE PROJECT GEOTECHNICAL REPORT.
7. DESIGN SOIL PARAMETERS: 27° FRICTION ANGLE & UNIT WEIGHT OF 120 PCF, PER GEOTECHNICAL REPORT DATED DECEMBER 14, 2016 BY ENCEO.
8. MIRAFI 5XT GEOGRID REINFORCEMENT, LENGTH AS SHOWN, WITH VERTICAL SPACING NOT TO EXCEED 3'.
9. GULARTE & ASSOC., INC. SHOULD BE RETAINED TO PROVIDE VISUAL OBSERVATION DURING ROCKERY WALL CONSTRUCTION. DUTIES OF THE ON-SITE FIELD TECHNICIAN INCLUDE CHECKING KEY DEPTHS FOR WALL EMBEDMENTS, AND GENERAL ROCK PLACEMENT. SHOULD AN ALTERNATE CONSULTING FIRM BE SELECTED, WE REQUIRE THIS FIRM SUBMIT A LETTER TO OUR OFFICE STATING THEY HAVE REVIEWED AND TAKE NO EXCEPTION TO THIS DESIGN, AND THAT THEY ASSUME THE ROLE OF GEOTECHNICAL ENGINEER-OF-RECORD FOR THE ROCKERY WALLS.
10. THE PROJECT SOILS ENGINEER SHOULD BE RETAINED TO CHECK COMPACTION OF THE WALL BACKFILL AND GEOGRID TYPE & PLACEMENT.

CONSTRUCTION NOTES:

- A. MAXIMUM HEIGHT ABOVE GROUND SURFACE OF 10 FEET.
- B. MINIMUM ROCK SIZES PER THE TABLE, THIS SHEET. ROCK WEIGHT PER LINEAL FOOT MAY VARY BY ± 15% DEPENDING ON MATERIAL AVAILABILITY AND VARIOUS SHAPES.
- C. THE ROCKERY CONTRACTOR SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE IN CONSTRUCTING GRAVITY, ROCK RETAINING WALLS.
- D. ROCK FACING SHALL CONSIST OF THE APPROXIMATE SIZE SHOWN IN THE TABLE. CHINKING (FILLING OF VOIDS) WILL BE REQUIRED WHEN VOIDS BETWEEN THE ROCKS ARE GREATER THAN 6 INCHES; CHINKING TO BE PLACED WITH PRYBAR AND SLEDGEHAMMER TO PROVIDE TIGHT FIT.
- E. THE BASE KEY SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 18 INCHES. SLOPE THE KEY 5 TO 10 PERCENT TOWARD THE BACK OF THE KEY.
- F. ROCKS SHALL BE PLACED SO THAT THE JOINTS BETWEEN ROCKS ON OVERLYING COURSES ARE DISCONTINUOUS.
- G. CAP ROCKS TO BE 125 LBS. MINIMUM.
- H. IF NECESSARY, BASE ROCKS MAY BE DOUBLED UP TO OBTAIN ADEQUATE WIDTH AS LONG AS THE OVERLYING ROCKS ARE PLACED IN A DISCONTINUOUS FASHION.

MINIMUM ROCK SIZE TABLE				
ROCK LETTER	APPROX. DIAMETER			WEIGHT (lbs)
	L (Feet)	W (Feet)	H (Feet)	
A	1.5	1.5	1.5	500
B	2	2	1.5	900
C	2.5	2.5	2	1875
D	3	3	2	2700
E	3.5	3.5	2.5	4500
F	4	4	3	7200
	4	5	3	9000

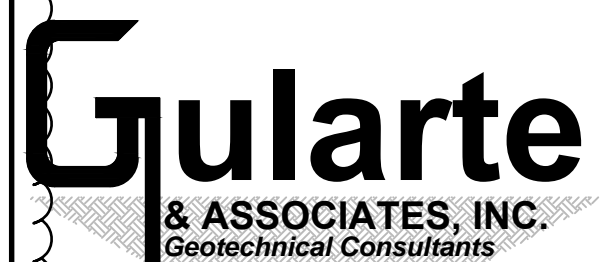
NOTE: Width is equivalent to depth, i.e. perpendicular to the wall.

RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

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DATE: JANUARY 8, 2021



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FILE NO: 4089
REV. DATE: NOV. 14, 2017

SHT. 29 OF 34

GEOWALL Pro MSE Specifications

Following specification is for the construction of GEOWALL MSE segmental retaining wall (SRWs). Specifications for segmental retaining wall units are provided in standard Construction Specification Institute (CSI) format.

GEOWALL Pro RETAINING STRUCTURE

PART I: GENERAL

- 1.01 Description
- A. Work shall consist of furnishing all materials, labor, equipment, and supervision to install system in accordance with these specifications and in reasonably close conformity with dimensions shown on the plans or as established by the Owner or Owner's Engineer.
 - B. Work shall consist of furnishing and installing appurtenant materials required for construction of the retaining wall as shown on the construction drawings.

1.02 Reference Standards

- A. Engineering Design
 1. NCMAS SRW Design Manual for Segmental Retaining Walls 3rd Edition
 2. ASTM D 6638 Standard Test Method for Determining the Connection Strength Between Geosynthetics Reinforcement and Segmental Concrete Units
 3. ASTM D 6916 Standard Test Method for Determining the Shear Strength Between Segmental Concrete Units
- B. Segmental Retaining Wall Units
 1. ASTM C140 - Sampling and Testing Concrete Masonry Units
 2. ASTM 1262 Standard Test Method for Evaluating the Freeze-Thaw Durability of Manufactured Concrete Masonry Units and Related Concrete Units
 3. ASTM C1372 Standard Specification for Dry-Cast Segmental Retaining Wall Units
- C. Geosynthetic Reinforcement
 1. ASTM D 4595 - Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
 2. ASTM D 5262 - Standard Test Methods for Evaluating the Unconfined Tension Creep and Creep Rupture Behavior of Geosynthetics
 3. ASTM D 5321 - Standard Test Method for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method
 4. ASTM D 5818 - Standard Practice for Exposure and Retrieval of Samples to Evaluate Installation Damage of Geosynthetics
 5. ASTM D 6637 - Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method
 6. ASTM D 6706 - Standard Test Method for Measuring Geosynthetic Pullout Resistance in Soil
 7. ASTM D 6992 - Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using Stepped Isothermal
 8. ASTM D6706 Geosynthetic Pullout Resistance in Soil ASTM D6916 Shear Strength Between Segmental Concrete Units
- D. Soils
 1. ASTM D 422 Standard Test Method for Particle-Size Analysis of Soils
 2. ASTM D 1557 Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lb/ft³ (2,700 kN-m/m³))
 3. ASTM D 2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
 4. ASTM D 6938 Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
 5. ASTM D 4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
 6. ASTM D 6913 Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
 7. ASTM G 51 Standard Test Method for Measuring pH of Soil for Use in Corrosion Testing
- E. Drainage Pipe
 1. ASTM F 758 Standard Specification for Smooth-Wall Poly(Vinyl Chloride) (PVC) Plastic Underdrain Systems for Highway, Airport, and Similar Drainage

Where specifications and reference documents conflict, the Architect/Engineer shall make the final determination of applicable document.

1.03 Approved Segmental Retaining Wall Systems

- A. Minimum requirements for the contractor shall include training and certification of the NCMAS SRW Installer Certification Level 1 and a minimum of 5 years of continuous experience and 10,000 square feet of SRW wall installation similar to the system required herein. Each supplier must be approved two weeks prior to bid opening. Systems currently approved for this work are:
- B. Segmental Wall Units
 1. Basalite Concrete Products
- C. Geosynthetic Reinforcements
 1. T. C. Mirafi
 2. Strata Systems

No substitutions without written approval by Gularite & Associates, Inc.
- D. Submittals
 1. Material Submittals - The Contractor shall submit manufacturer's certifications, 30 days prior to the start of work, stating that the SRW units, geosynthetic reinforcement, reinforced backfill, and gravel fill meet the requirements of Part 2.0 of this specification. The Contractor shall provide a list of successful projects with references showing that the installer for the segmental retaining wall is qualified and has a record of successful performance.
- E. Delivery, Storage and Handling
 1. The Contractor shall inspect the materials upon delivery to assure that proper type and grade of material has been received.
 2. The Contractor shall store and handle materials in accordance with manufacturer's recommendations and in a manner to prevent deterioration or damage due to moisture, temperature changes, contaminants, corrosion, breaking, chipping or other causes.

3. The Contractor shall protect the materials from damage. Damaged material shall not be incorporated into the segmental retaining wall.

PART 2: MATERIALS

- 2.01 GEOWALL Retaining Wall Units
- A. GEOWALL concrete segmental units shall conform to the requirements of ASTM C 1372 and have a minimum net average 28 days compressive strength of 3,000 psi and a maximum absorption of 13 pcf (for normal weight) as determined in accordance with ASTM C 140. For areas subject to detrimental freeze-thaw cycles, as determined by the Owner or Owner's Engineer, the concrete shall have adequate freeze/thaw protection and meet the requirements of ASTM C 1372 when tested in accordance with ASTM C1262.
 - B. GEOWALL SRW units shall match the color, surface finish, and dimension for height, width, depth, and batter as shown on the plans.
 - C. GEOWALL units dimensions shall not differ more than + 1/8 in., as measured in accordance with ASTM C140. This tolerance does not apply to architectural surfaces, such as split faces.
 - D. All units shall be sound and free of cracks or other defects that would interfere with the proper placing of the unit or significantly impair the strength or permanence of the construction. Any cracks or chips observed during construction shall fall within the guidelines outlined in ASTM C1372.
 - E. Pins used by the retaining wall system shall be supplied by the retaining wall supplier and shall consist of nondegrading polymer or galvanized steel and shall be made for the express use with the GEOWALL units supplied.
 - F. Cap adhesive shall meet the requirements of the SRW unit manufacturer.
 - G. The following Segmental Retaining Wall Units have been pre-approved:
 1. GEOWALL Pro units-18 inches wide 8 inches high and 12 inches deep with two batter options of Near Vertical and a 1 1/8.
 2. GEOWALL Standard units - 18 inches wide, 8 inches high, and 21.5 inches deep with two batter options of Near Vertical and a 1 1/8.
 3. GEOWALL Cap units
 - H. Each course of GEOWALL Units shall be positively interlocked to the preceding course with a minimum shear capacity of 600 lb/ft at 2 psi as tested in accordance with ASTM D6916.
 - I. GEOWALL units shall meet the following constructability and geometric requirements:
 1. Units shall be capable of attaining concave and convex curves to a minimum radius of 72 inches.
 2. Vertical Wall: Units shall be positively engaged to the unit below so as to provide a maximum of a 1/4 inch horizontal setback per vertical foot of wall height (near vertical)
 - OR,
 3. Setback Wall: Units shall be positively engaged to the unit below so as to provide a minimum of 1 inch horizontal setback per vertical foot of wall height.
- 2.02 Geosynthetic Reinforcements
- A. Geosynthetic Reinforcements shall consist of high tenacity PET geogrids, HDPE geogrids, or geotextiles manufactured for soil reinforcement applications. The type, strength and placement location of the reinforcing geosynthetic shall be as shown on the plans. The design properties of the reinforcement shall be determined according to the procedures outlined in this specification and the NCMAS Design Manual for Segmental Retaining Walls (3rd Edition, 2009) Detailed test data shall be submitted to the Owner's Engineer for approval at least 30 days prior to construction and shall include tensile strength (ASTM D 4595 or ASTM D 6637), creep (ASTM D 5262), site damage (ASTM D 5818 durability (FHWA guidance (FHWA NHI-00-043, FHWA NHI-00-044)), pullout (ASTM D 6706 direct shear (ASTM D 5321 and connection (ASTM D 6638) test data.
- 2.03 Drainage Pipe
- A. The drainage collection pipe shall be a perforated or slotted schedule 40 PVC or SDR 35 pipe. The pipe and gravel fill may be wrapped with a geotextile that will function as a filter.
 - B. Drainage pipe shall be manufactured in accordance with ASTM F 405 or ASTM F 758.
- 2.04 Leveling Pad and Unit Fill Material
- A. Material for leveling Pad shall consist of crushed stone placed a minimum of 6 inches thick, or lean non reinforced concrete (500 psi) placed a minimum of 2 to 4 inches thick.
 - B. Unit Fill shall consist of free draining crushed stone.
 1. Consolidate Unit Fill by running hand-operated vibrating compaction equipment behind units; do not run mechanical vibrating plate compactors directly on top of bare concrete units. Compact unit fill to a minimum 95% standard proctor density (ASTM D-698) or 92% of modified proctor density (ASTM D-1557).
- 2.05 Drainage Aggregate
- A. Gravel fill shall be a clean crushed stone or granular fill meeting the following gradation as determined in accordance with ASTM D 422:

Sieve Size	Percent Passing
1 in.	100
3/4 in.	75 - 100
No. 4	0 - 60
No. 40	0 - 50
No. 200	0 - 5
 - B. The vertical drainage layer placed within and behind the SRW unit shall be no less than 24 inches wide as measured from the front face for SRW units up to 21 inches wide (deep). For units greater than 21 wide (deep) unit fill shall be spilling out the back of the SRW units

PART 3: CONSTRUCTION

- 3.01 Construction Observation
- A. The Owner or Owner's Engineer should verify the materials supplied by the contractor meet all the requirements of the specification. This includes all submittals and proper installation of the system.
 - B. The Contractor's field construction supervisor shall have demonstrated experience and be qualified to direct all work at the site.

- 3.02 Excavation
- A. Contractor shall excavate to the lines and grades shown on the project grading plans and SRW plan and profile drawing. Contractor shall take precautions to minimize over-excavation. Over-excavation shall be filled with compacted infill material, or as directed by the Architect/Engineer, at the Contractor's expense.
- 3.03 Foundation Preparation
- A. Following excavation for the leveling pad and the reinforced soil zone, foundation soil shall be examined by the Owner's Geotechnical Engineer to assure the actual foundation soil strength meets or exceeds the assumed design bearing strength. Soils not meeting the required strength shall be removed and replaced with soil meeting the design criteria, as directed by the Owner's Geotechnical Engineer.
- 3.04 Leveling Pad Construction
- A. A minimum 6 in. thick layer of compacted granular material shall be placed for use as a leveling pad up to the grades and locations as shown on the construction drawings. The granular base shall be compacted to provide a firm, level bearing pad on which to place the first course of concrete segmental retaining wall units. A leveling pad consisting of 6 in. (minimum) thick lean, unreinforced concrete may be used at the wall contractor's option, or if so detailed on the plans. The leveling pad should extend a minimum of 6 in. from the toe and from the heel of the SRW unit.

- 3.05 SRW and Geosynthetic Reinforcement Placement
- A. All materials shall be installed at the proper elevation and orientation as shown in the wall details on the construction plans or as directed by the Owner's Engineer. The concrete segmental wall units and geosynthetic reinforcement shall be installed in general accordance with the manufacturer's recommendations. The drawings shall govern in any conflict between the two requirements.
 - B. Overlap or splice connections of the geosynthetic in the design strength direction shall not be permitted. The design strength direction is that length of geosynthetic reinforcement perpendicular to the wall face and shall consist of one continuous piece of material. Adjacent sections of geosynthetic shall be placed in a manner to assure that the horizontal coverage shown on the plans is provided.
 - C. Geosynthetic reinforcement should be installed under tension. A nominal tension shall be applied to the reinforcement and maintained by staples, stakes, or hand tensioning until the reinforcement has been covered by at least 6 inches of soil fill.
 - D. Broken, chipped, stained or otherwise damaged units shall not be placed in the wall unless they are repaired, and the repair method and results are approved by the SRW Design Engineer.

- 3.06 Quality Control
- A. Gularite & Associates, Inc. should be retained to provide on site inspections during construction. Duties of the inspector include checking footing excavation, geogrid type and placement, and testing compaction of the backfill in accordance with the project geotechnical report.

- 3.07 Gravel Fill and Drainage Placement
- A. Gravel fill shall be placed to the minimum finished thickness and widths shown on the construction plans.
 - B. Drainage collection pipes shall be installed to maintain gravity flow of water outside of the reinforced soil zone. The drainage collection pipe should daylight into a storm sewer manhole or along a slope at an elevation lower than the lowest point of the pipe within the aggregate drain.
 - C. The main collection drain pipe, just behind the block facing, shall be a minimum of 4 in. in diameter. The secondary collection drain pipes should be sloped a minimum of two percent to provide gravity flow into the main collection drain pipe. Drainage laterals shall be spaced at maximum 50 ft spacing along the wall face.

- 3.08 Cap Block Placement
- A. The cap block and/or top SRW unit shall be bonded to the SRW units below using cap adhesive described in Part 2. The block shall be dry and swept clean prior to adhesive placement.

RECORD DRAWING

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DATE: JANUARY 8, 2021



GEOWALL SPECIFICATIONS

RANCHO VISTA SUBDIVISION - SAN BENITO COUNTY

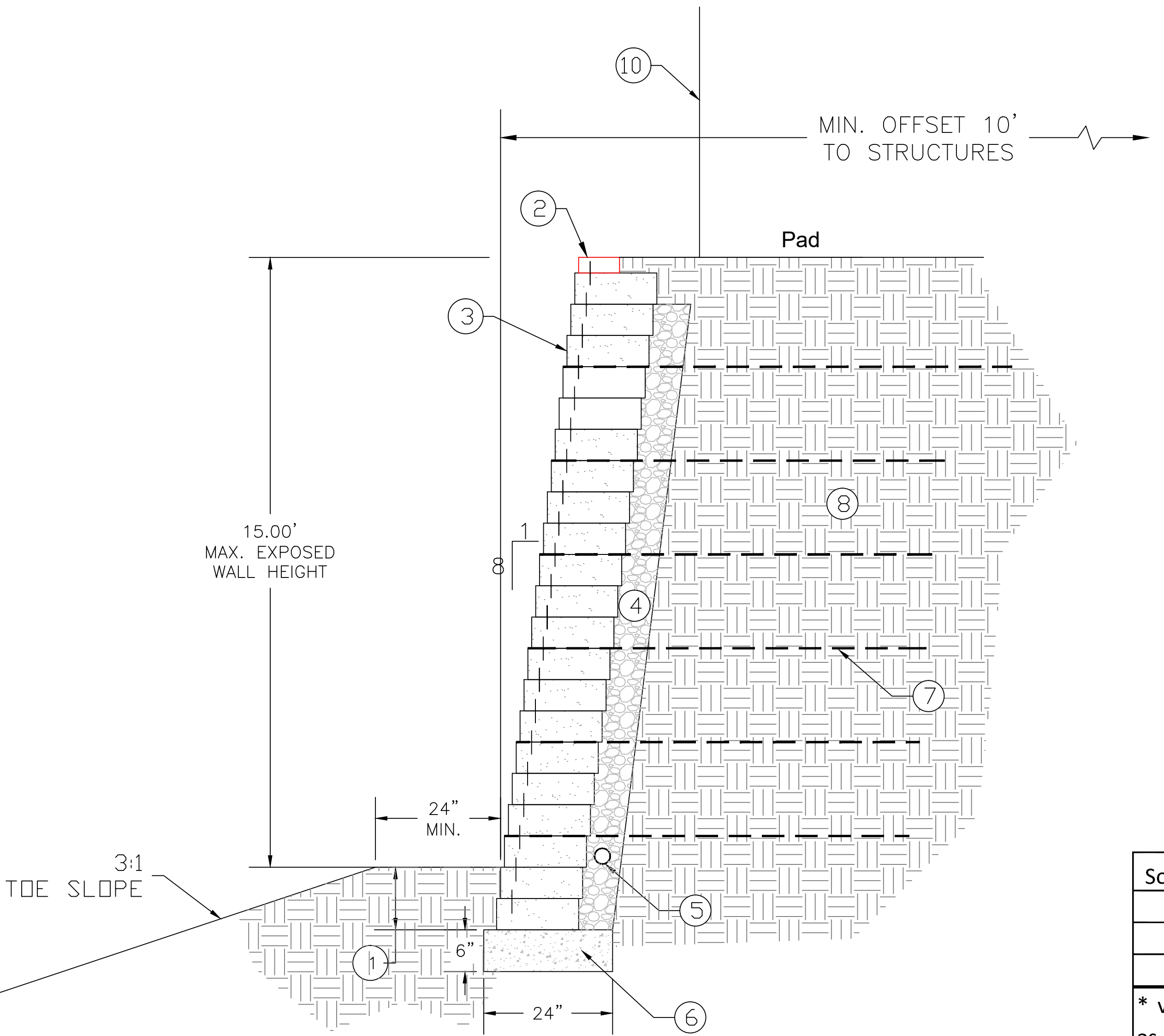
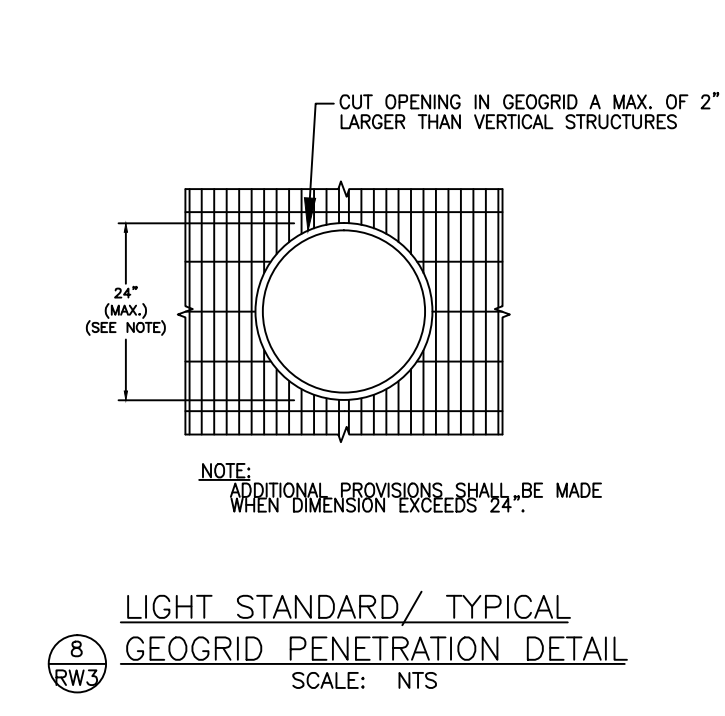
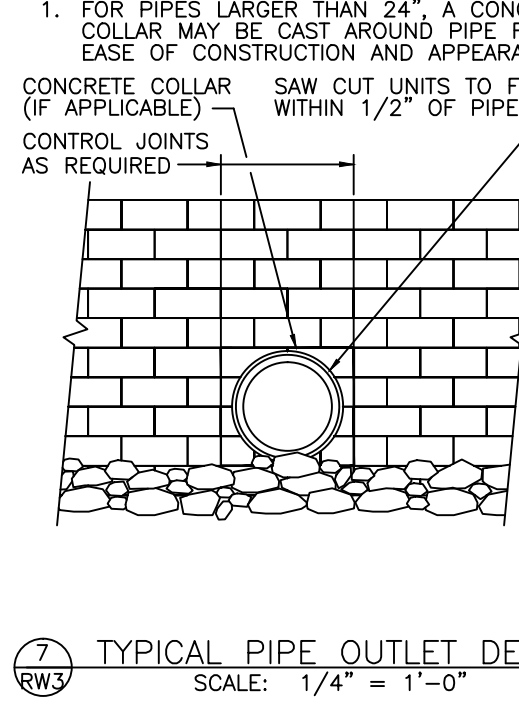
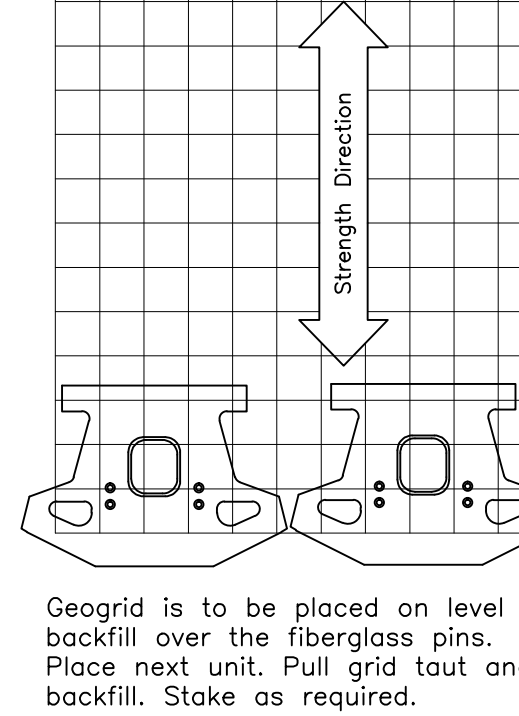
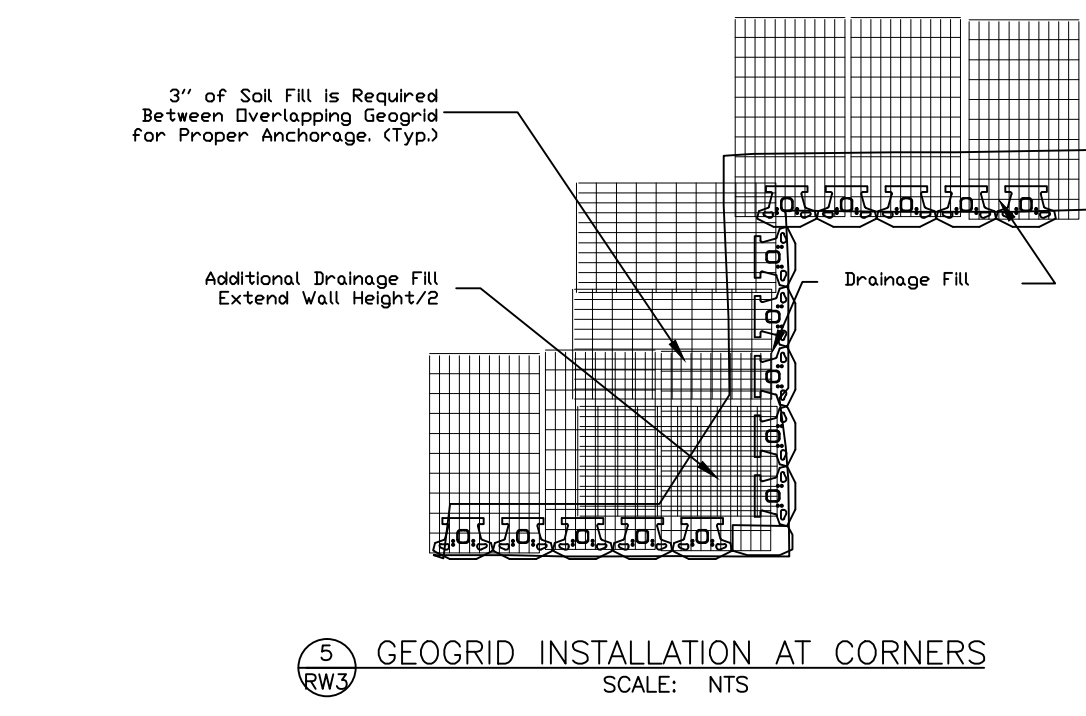
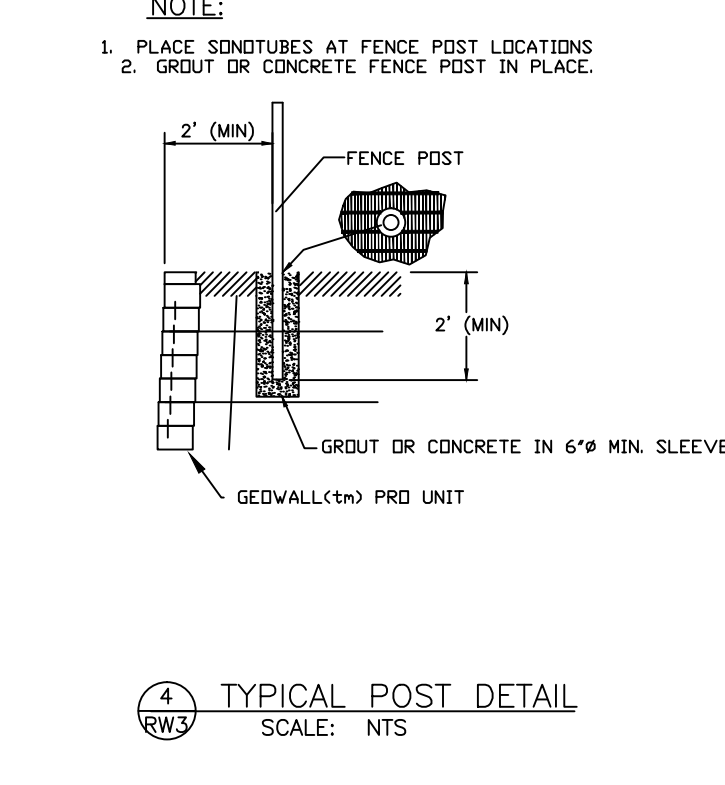
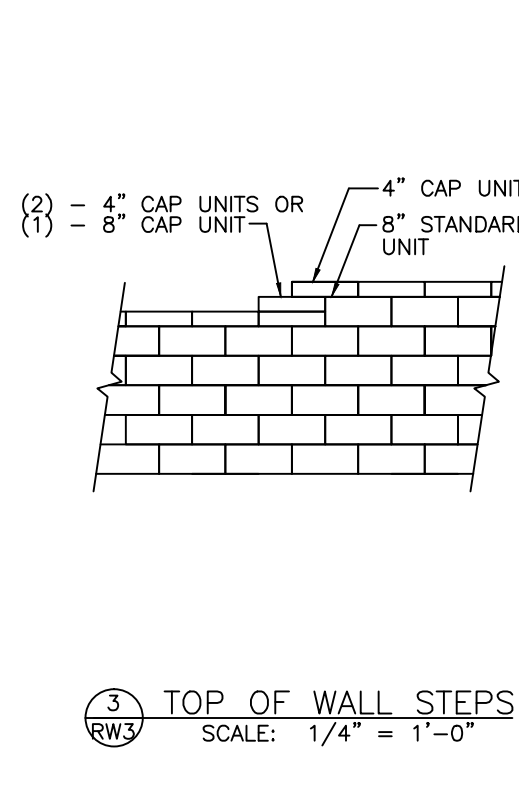
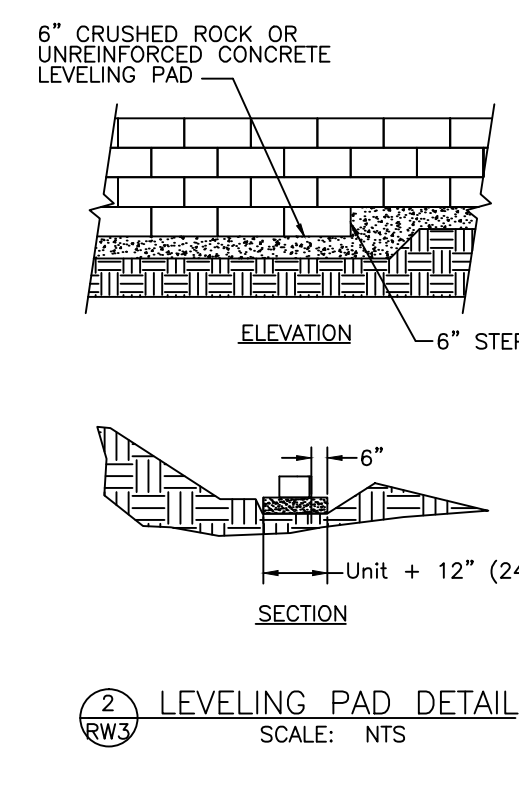
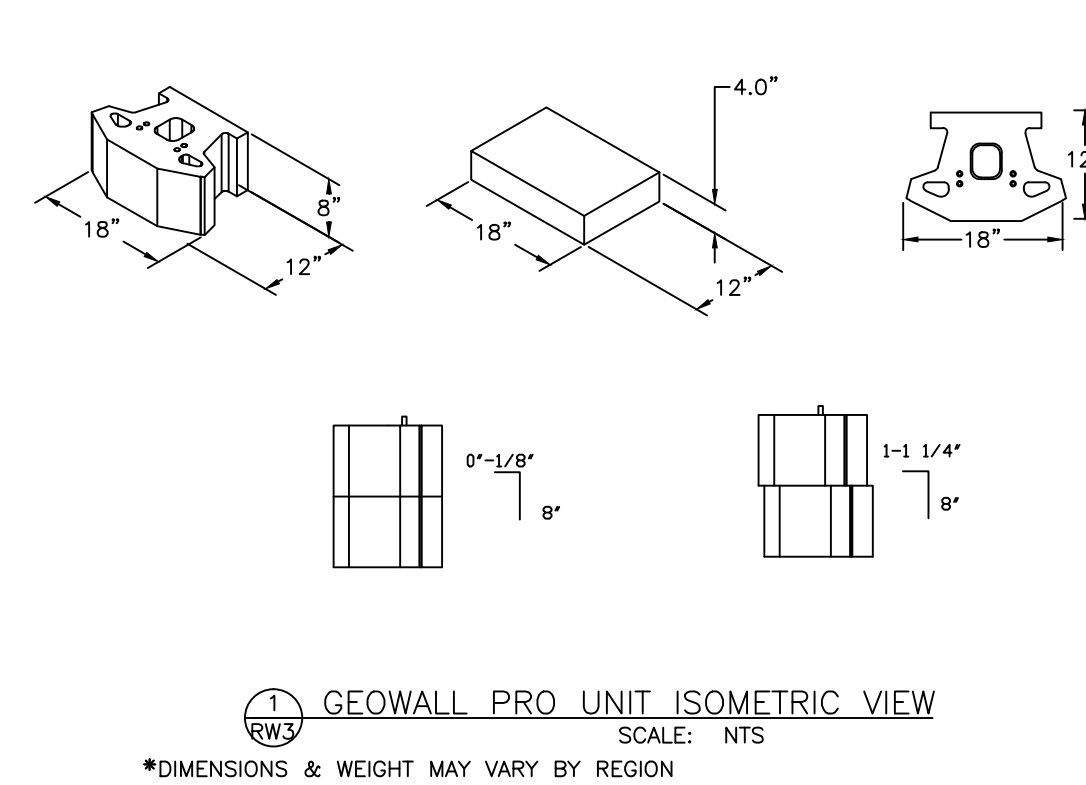
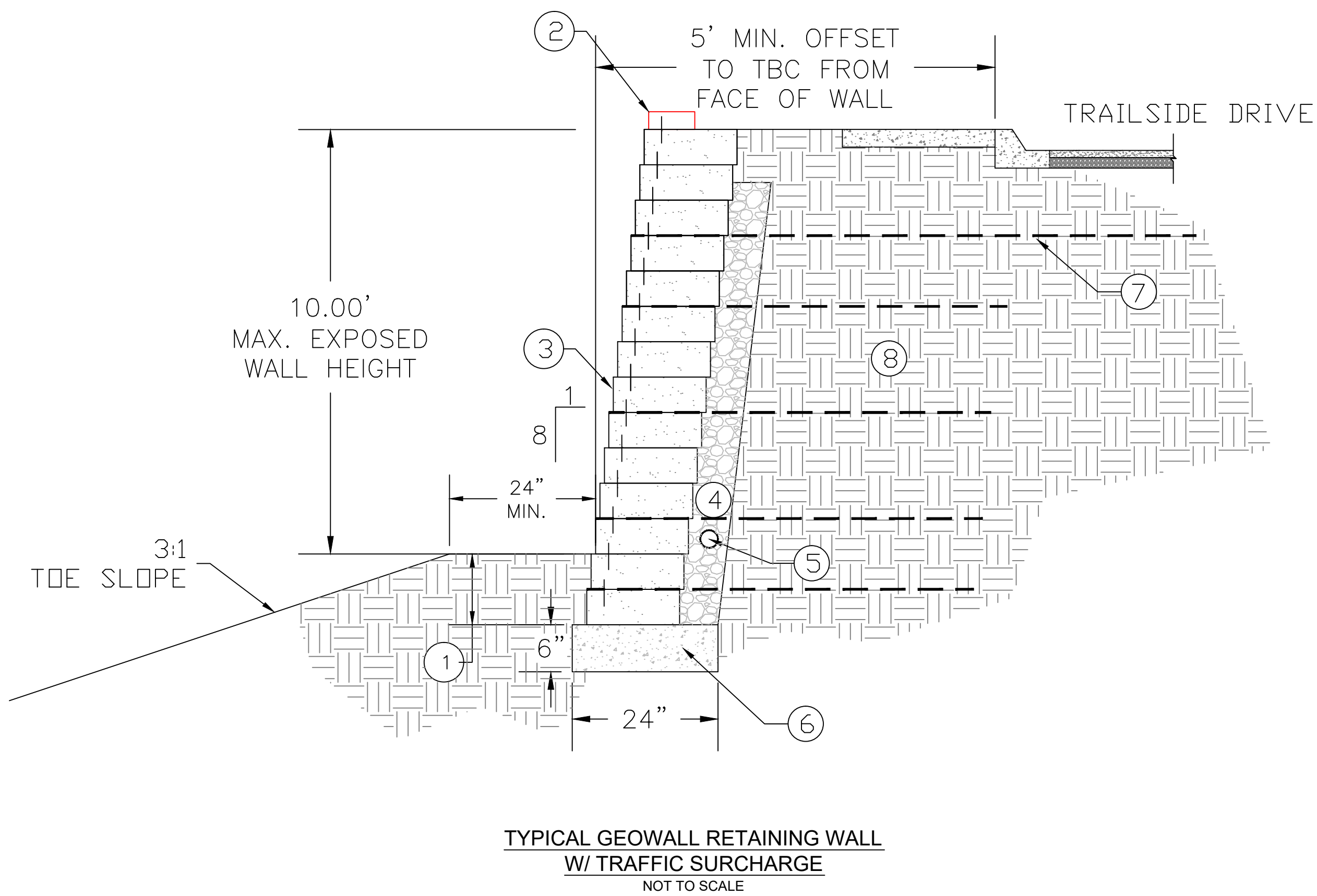
Gularite & ASSOCIATES, INC.
Geotechnical Consultants

1049 Nichols Dr. Rocklin, CA 95765
916.626.5577 FAX 916.626.5533

FILE NO: 4089
REV. DATE NOV. 14, 2017

SHT. 30 OF 34

REFERENCE: Drawing Provided By



GEOGRID SCHEDULE -- TRAFFIC SURCHARGE

TOTAL HEIGHT (feet)	EMBEDMENT (feet)	EXPOSED HEIGHT (feet)	NO. OF GRIDS	GRID LENGTH (Note 1) (feet)	GRID LOCATIONS (Note 2)	GRID TYPE
3	1	0-2	1	3	2 ---	A
5	1	2-4	2	4, 4.5 ON TOP	2 5 ---	A
7	1	4-6	3	6, 7.5 TOP	2 5 8 ---	A, B LOWEST GRID
9.33	1.33	6-8	5	8, 11.5 ON TOP	1 3 6 9 11 ---	A, B LOWEST GRID
11.33	1.33	8-10	6	10, 13 ON TOP	1 3 6 9 12 14 ---	A, B LOWEST 2 GRIDS

GEOGRID SCHEDULE -- LEVEL BACKSLOPE

TOTAL HEIGHT (feet)	EMBEDMENT (feet)	EXPOSED HEIGHT (feet)	NO. OF GRIDS	GRID LENGTH (Note 1) (feet)	GRID LOCATIONS (Note 2)	GRID TYPE
3	1	0-2	1	3	2 ---	---
5	1	2-4	2	4, 4.5 ON TOP	2 5 ---	A
7	1	4-6	3	4.5/6 ON TOP	2 5 8 ---	A, B LOWEST GRID
9.33	1.33	6-8	4	11.5	2 5 8 11 ---	A, B LOWEST GRID
11.33	1.33	8-10	5	11.5/15.5 ON TOP	2 5 8 11 14 ---	A, B LOWEST 2 GRIDS
13.33	1.33	10-12	6	11.5/17 ON TOP	2 5 8 11 14 17 ---	A, B LOWEST 2 GRIDS
16.33	1.33	12-15	8	13.5/17.5 ON TOP	2 5 8 11 14 17 20 22 ---	B, C LOWEST 2 GRIDS

NOTES:
 1. IF MULTIPLE LENGTHS SHOWN, LONGER GRID GOES TOWARD TOP OF WALL.
 2. GRID LOCATION IS ON TOP OF COURSE NUMBER SHOWN, COUNTING UP FROM BOTTOM OF WALL.
 3. FOR WALL HEIGHTS BETWEEN THOSE SHOWN, USE GRID LENGTH & LOCATION OF THE TALLER WALL.

Soil Parameters per December 14, 2016 Geotechnical Report by Engeo	
Friction Angle*	27°
Unit Weight*	120 pcf
Cohesion	0 psf

* values listed here are equivalent to 45 pcf equivalent fluid pressure, as recommended in the above referenced Geotechnical Report

GEOGRID STRENGTH CHART		
TYPE	STRATAGRID	MIRAFI
A	SG200	3XT
B	SG350	5XT
C	SG500	7XT

- GEOWALL NOTES:**
- 12" EMBEDMENT.
 - GEOWALL 4" CAP UNIT
 - GEOWALL PRO UNIT.
 - CLASS II PERMEABLE MATERIAL.
 - 4"Ø SCH. 40 PVC OR SDR 35 PERFORATED DRAIN PIPE OUTLET EVERY 100'. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
 - CRUSHED STONE LEVELING PAD 6"HX24"W. FOR GRAVITY WALL LESS THAN 2.67 TOTAL HEIGHT, INCREASE LEVELING PAD WIDTH TO 36" AND USE GEOWALL MAX UNITS.
 - GEOGRID LENGTH AND TYPE PER TABLE, THIS SHEET.
 - STRUCTURAL BACKFILL BEHIND GEOWALL TO BE MIN. 90% RELATIVE COMPACTION OR PER THE ON SITE GEOTECHNICAL ENGINEER.
 - 5' MIN. HORIZONTAL OFFSET FROM BASE OF WALL TO DAYLIGHT ON SLOPE.
 - FENCEPOST PER DETAIL, THIS SHEET.

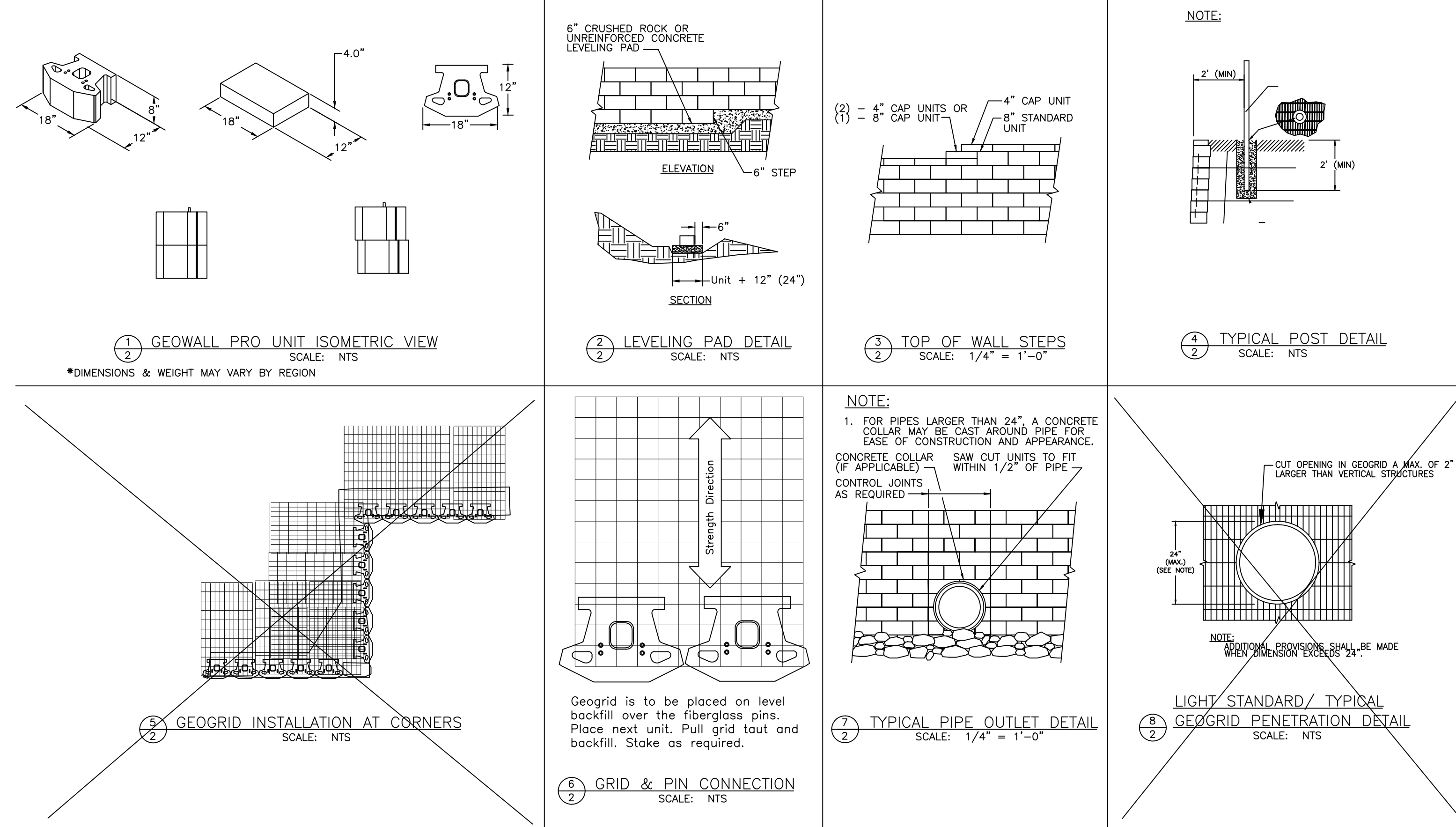
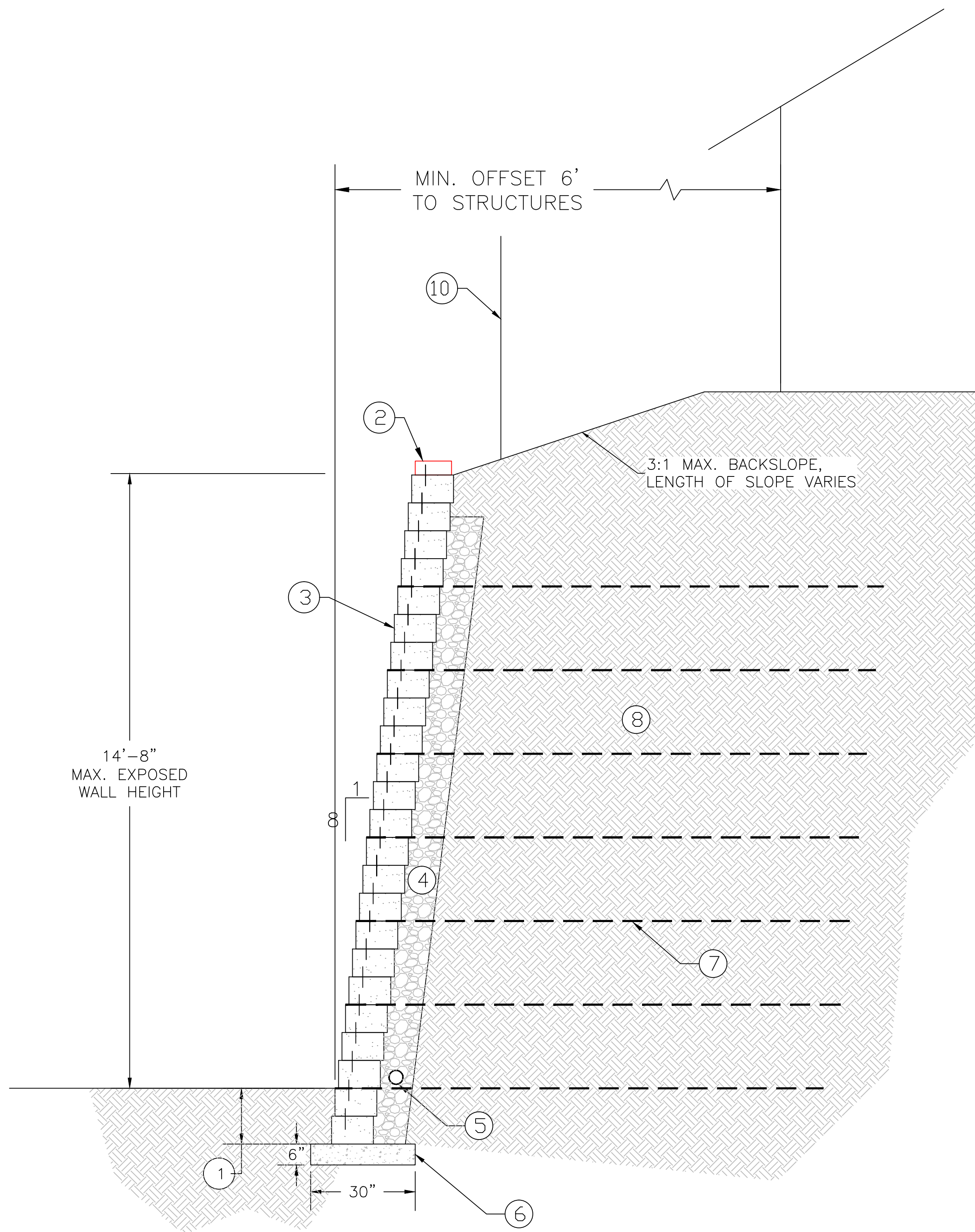
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 DATE: JANUARY 8, 2021



GEOWALL RETAINING WALL DETAILS

RANCHO VISTA SUBDIVISION - SAN BENITO COUNTY

Gularte & ASSOCIATES, INC.
 Geotechnical Consultants
 1049 Nichols Dr. Rocklin, CA 95765
 916.626.5577 FAX 916.626.5533
 FILE NO: 4089
 REV. DATE: NOV. 14, 2017
SHT. 31 OF 34



GEOGRID SCHEDULE -- 3:1 BACKSLOPE & HOUSE SURCHARGE

TOTAL HEIGHT (feet)	EMBEDMENT (feet)	EXPOSED HEIGHT (feet)	NO. OF GRIDS	GRID LENGTH (Note 1) (feet)	GRID LOCATIONS (Note 2)	GRID TYPE
9.33	1.33	0-8	4	9.5	2 5 8 11	A, B LOWEST GRID
13.33	1.33	8-12	6	10	2 5 8 11 14 17	A, B LOWEST 2 GRIDS
16	1.33	4-6	7	11	2 5 8 11 14 17 20	B

GEOGRID SCHEDULE -- LEVEL BACKSLOPE @ REAR YARD

TOTAL HEIGHT (feet)	EMBEDMENT (feet)	EXPOSED HEIGHT (feet)	NO. OF GRIDS	GRID LENGTH (Note 1) (feet)	GRID LOCATIONS (Note 2)	GRID TYPE
4.67	0.67	0-4	2	4, 4.5 ON TOP	2 5	A
9.33	1.33	4-8	4	7, 8.5 ON TOP	2 5 8 11	A, B LOWEST GRID
13.33	1.33	8-12	6	10/11.5 ON TOP	2 5 8 11 14 17	A, B LOWEST 2 GRIDS
16	1.33	12-14.67	7	11/13 ON TOP	2 5 8 11 14 17 20	B

NOTES:
 1. IF MULTIPLE LENGTHS SHOWN, LONGER GRID GOES TOWARD TOP OF WALL.
 2. GRID LOCATION IS ON TOP OF COURSE NUMBER SHOWN, COUNTING UP FROM BOTTOM OF WALL.
 3. FOR WALL HEIGHTS BETWEEN THOSE SHOWN, USE GRID LENGTH & LOCATION OF THE TALLER WALL.

- GEOWALL NOTES:**
- EMBEDMENT PER TABLES, THIS SHEET.
 - GEOWALL 4" CAP UNIT
 - GEOWALL PRO UNIT.
 - CLASS II PERMEABLE MATERIAL.
 - 4"Ø SCH. 40 PVC OR SDR 35 PERFORATED DRAIN PIPE OUTLET EVERY 100'. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
 - CRUSHED STONE LEVELING PAD 6"HX30"W
 - GEOGRID LENGTH AND TYPE PER TABLE, THIS SHEET.
 - STRUCTURAL BACKFILL BEHIND GEOWALL TO BE MIN. 90% RELATIVE COMPACTION OR PER THE ON SITE GEOTECHNICAL ENGINEER.
 - NOT USED.
 - FENCEPOST PER DETAIL, THIS SHEET.

Soil Parameters per December 14, 2016 Geotechnical Report by Engeo	
Friction Angle*	27°
Unit Weight*	120 pcf
Cohesion	0 psf

* values listed here are equivalent to 45 pcf equivalent fluid pressure, as recommended in the above referenced Geotechnical Report

GEOGRID STRENGTH CHART

TYPE	STRATAGRID	MIRAFI
A	SG200	3XT
B	SG350	5XT
C	SG500	7XT

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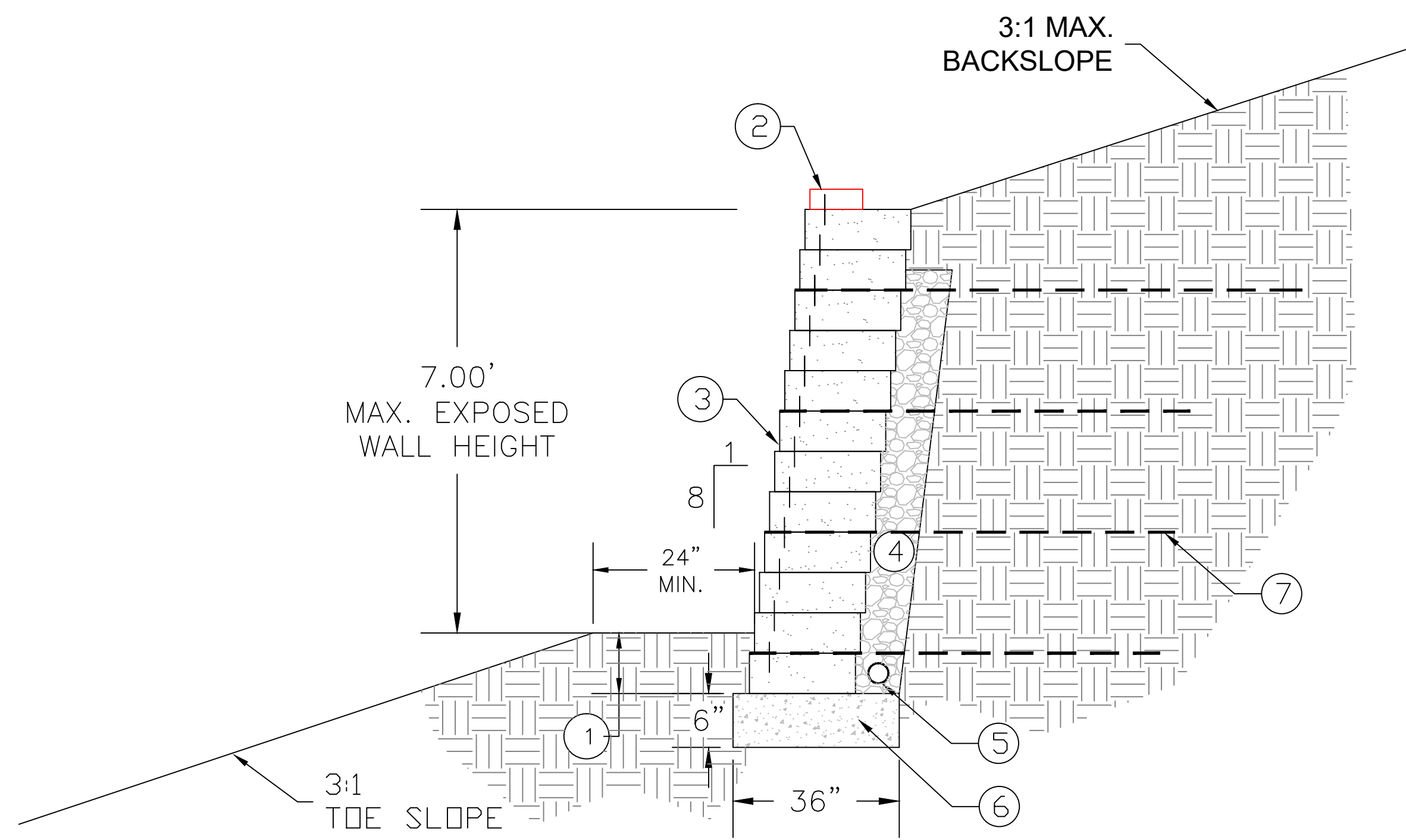
GEOWALL RETAINING WALL DETAILS

RANCHO VISTA SUBDIVISION, LOT 81 - SAN BENITO COUNTY



1049 Nichols Dr. Rocklin, CA 95765
 916.626.5577 FAX 916.626.5533

FILE NO: 4089
 REV. DATE: MAR. 15, 2019

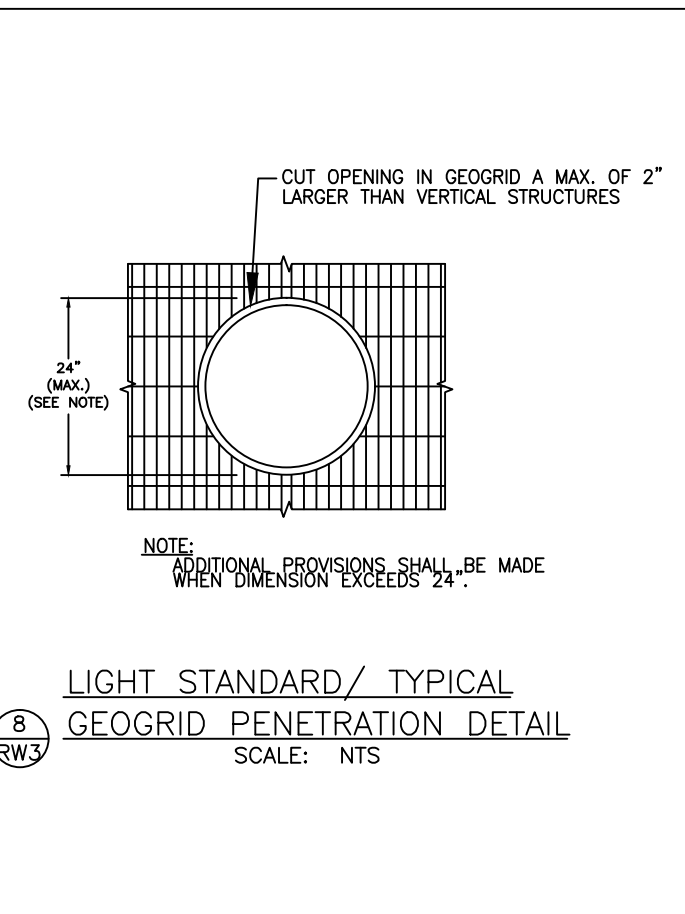
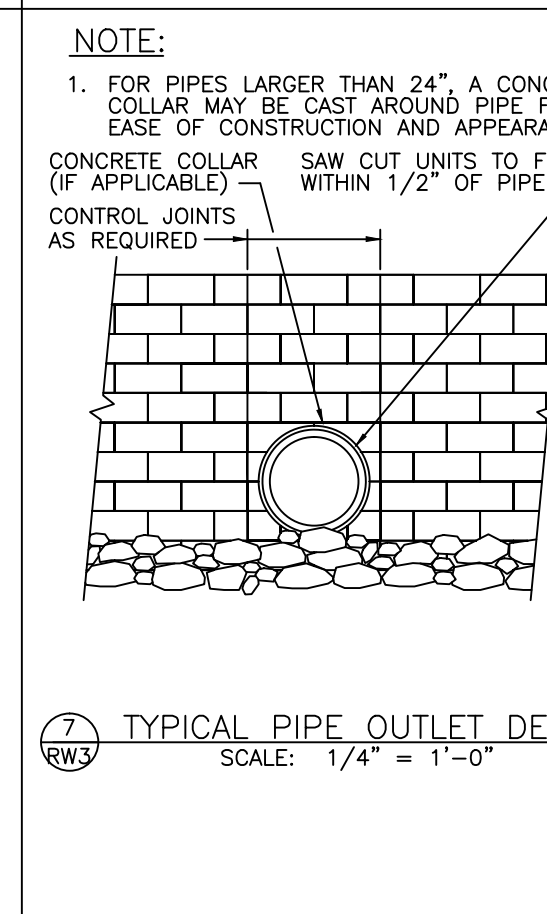
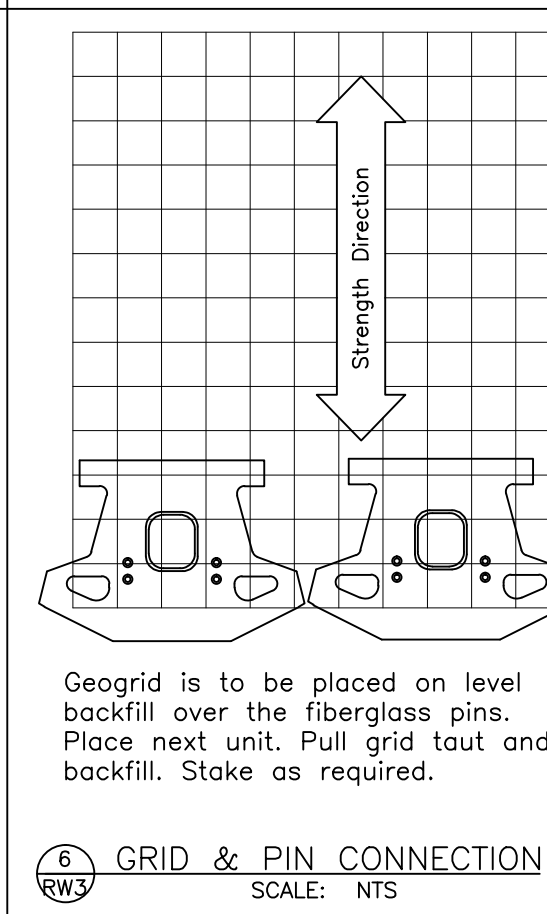
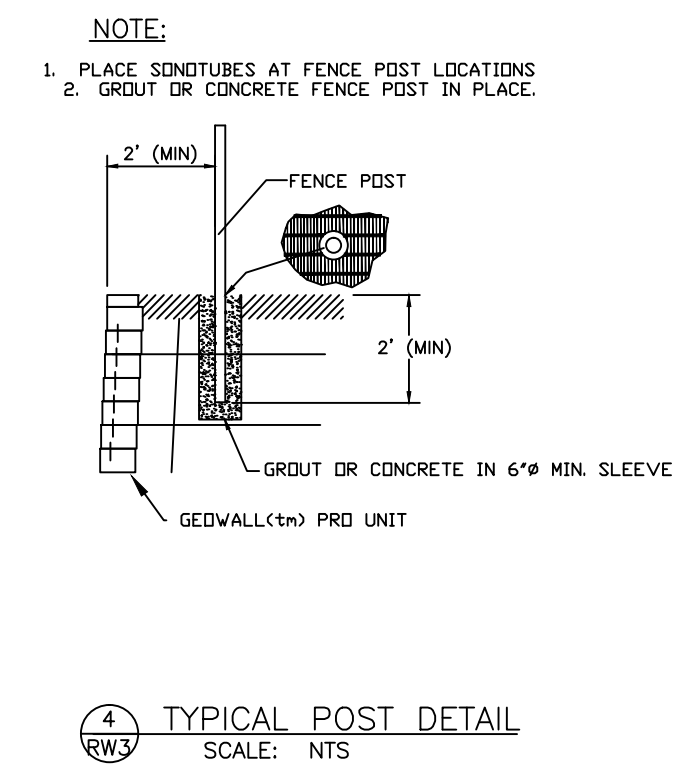
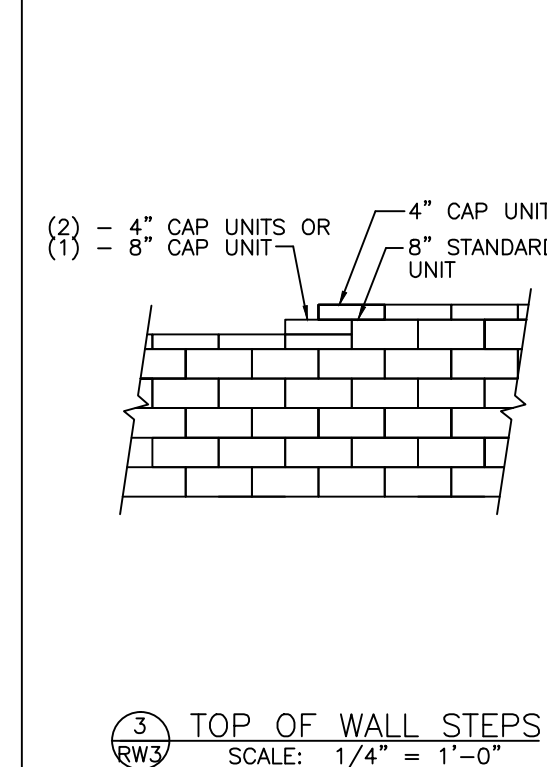
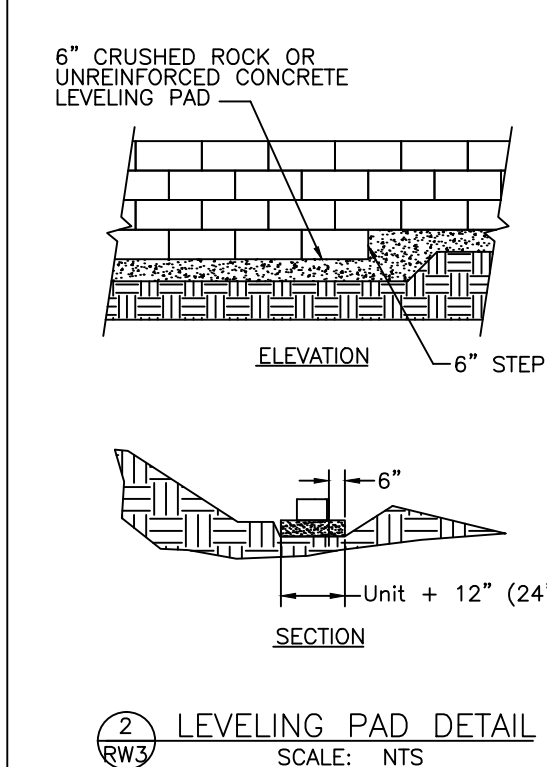
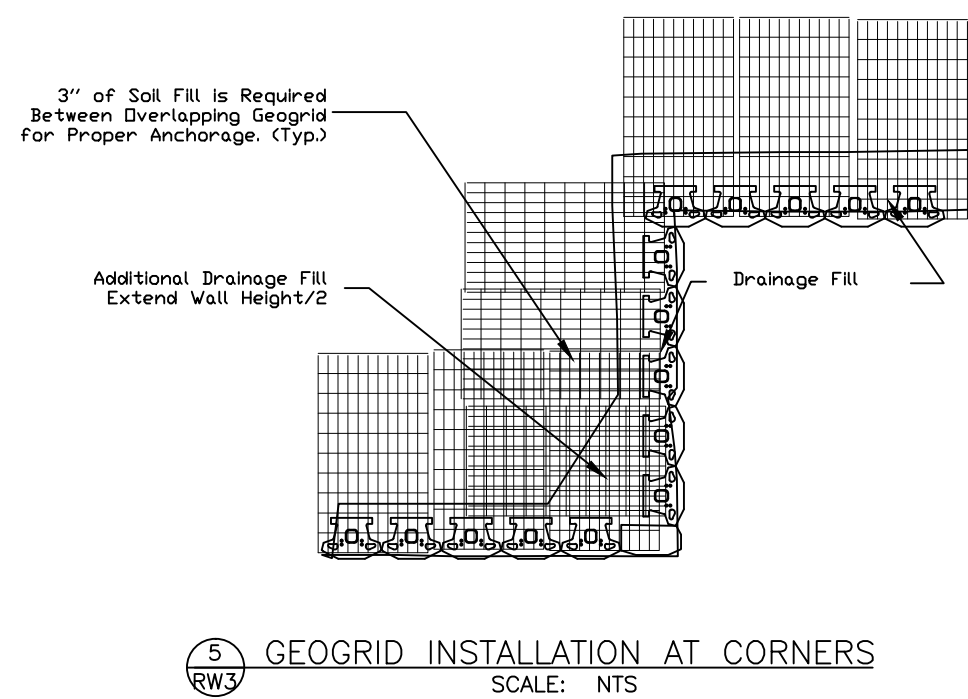
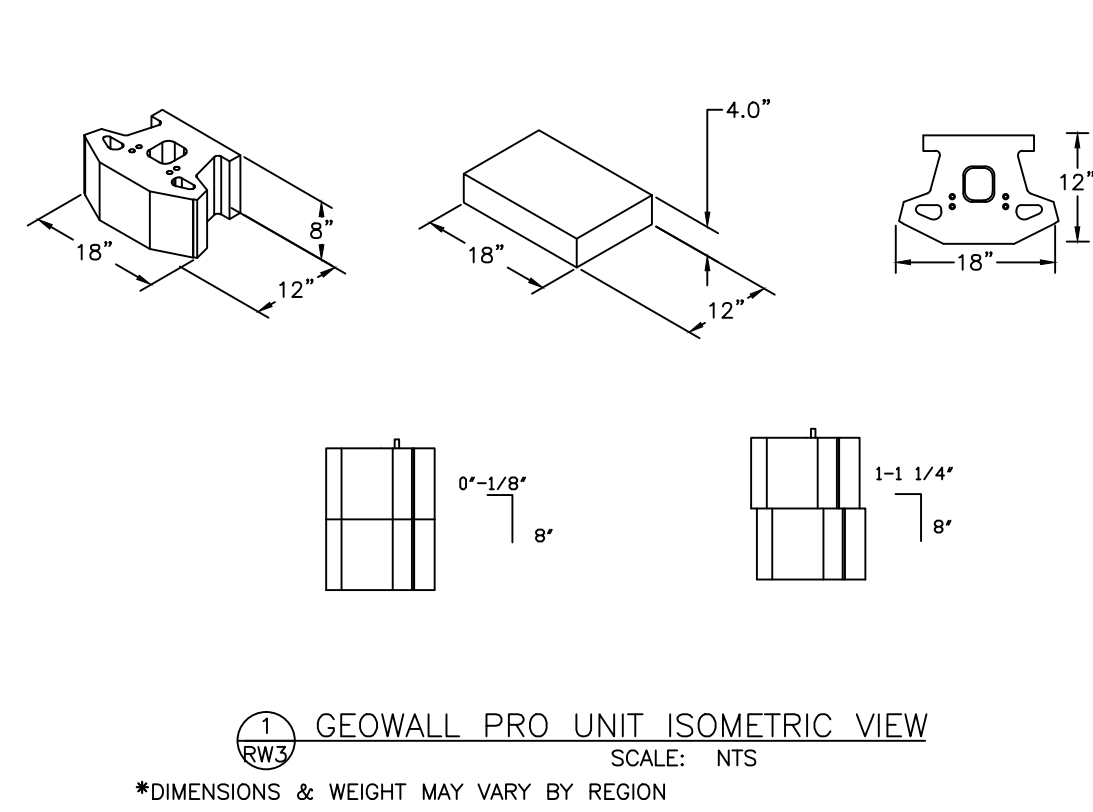


**TYPICAL GEOWALL RETAINING WALL
W/ 3:1 BACKSLOPE**
NOT TO SCALE

GEOGRID SCHEDULE -- 3:1 BACKSLOPE CONDITION

TOTAL HEIGHT (feet)	EMBEDMENT (feet)	EXPOSED HEIGHT (feet)	NO. OF GRIDS	GRID LENGTH (Note 1) (feet)	GRID LOCATIONS (Note 2)				GRID TYPE
2.67	1	0-1.67	0	N/A	---	---	---	---	SEE NOTE 4
4	1	1.67-3	2	4, 4.5 ON TOP	1	4	---	---	A
6	1	3-5	3	5, 6.5 ON TOP	1	4	7	---	A
8	1	5-7	4	7.5, 9.5 ON TOP	1	4	7	10	A

- NOTES:
- IF MULTIPLE LENGTHS SHOWN, LONGER GRID GOES TOWARD TOP OF WALL.
 - GRID LOCATION IS ON TOP OF COURSE NUMBER SHOWN, COUNTING UP FROM BOTTOM OF WALL.
 - FOR WALL HEIGHTS BETWEEN THOSE SHOWN, USE GRID LENGTH & LOCATION OF THE TALLER WALL.
 - FOR GRAVITY CONDITION (I.E. TOTAL HEIGHT LESS THAN 2'-8"), USE GEOWALL MAX UNITS.



GEOGRID STRENGTH CHART

TYPE	STRATAGRID	MIRAFI
A	SG200	3XT
B	SG350	5XT
C	SG500	7XT

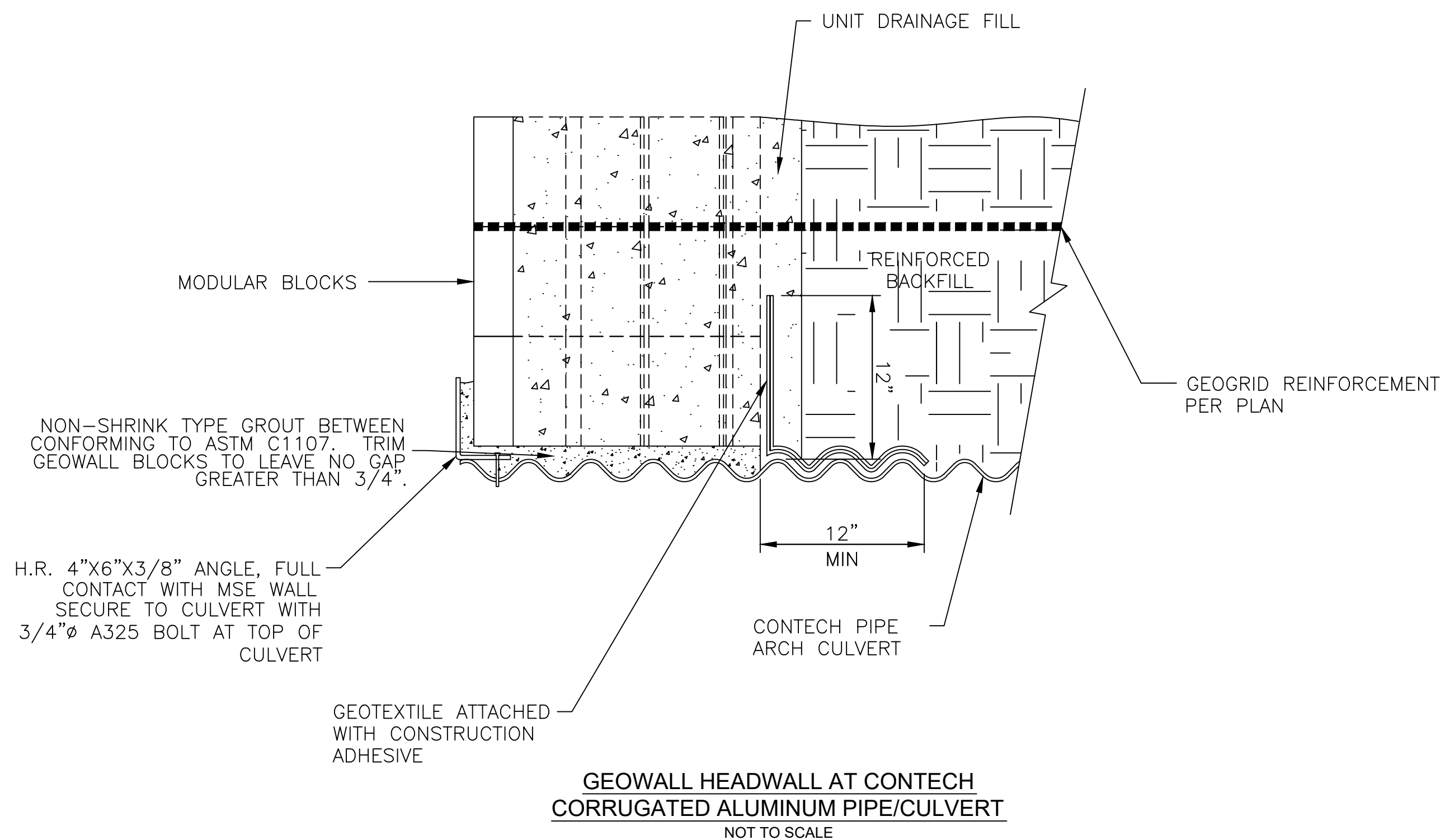
Soil Parameters per December 14, 2016 Geotechnical Report by Engeo

Friction Angle*	27°
Unit Weight*	120 pcf
Cohesion	0 psf

* values listed here are equivalent to 45 pcf equivalent fluid pressure, as recommended in the above referenced Geotechnical Report

GEO WALL NOTES:

- 12" EMBEDMENT.
- GEO WALL 4" CAP UNIT
- GEO WALL PRO UNIT.
- CLASS II PERMEABLE MATERIAL.
- 4" SCH. 40 PVC OR SDR 35 PERFORATED DRAIN PIPE OUTLET EVERY 100'. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
- CRUSHED STONE LEVELING PAD 6"HX24"W. FOR GRAVITY WALL LESS THAN 2.67 TOTAL HEIGHT, INCREASE LEVELING PAD WIDTH TO 36" AND USE GEO WALL MAX UNITS.
- GEOGRID LENGTH AND TYPE PER TABLE, THIS SHEET.
- STRUCTURAL BACKFILL BEHIND GEO WALL TO BE MIN. 90% RELATIVE COMPACTION OR PER THE ON SITE GEOTECHNICAL ENGINEER.
- 5' MIN. HORIZONTAL OFFSET FROM BASE OF WALL TO DAYLIGHT ON SLOPE.



RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

THIS RECORD DRAWING IS BASED ON INFORMATION FROM THE PROJECT OWNER AND PROJECT CONTRACTORS, AND ARE NOT BASED UPON A FIELD VERIFICATION OR INVESTIGATION OF THE IMPROVEMENTS OR GRADES.

DATE: JANUARY 8, 2021



Gularte & ASSOCIATES, INC.
Geotechnical Consultants

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916.626.5577 FAX 916.626.5533

FILE NO: 4089
REV. DATE: NOV. 14, 2017

SHT. 32 OF 34

GEO WALL RETAINING WALL DETAILS

RANCHO VISTA SUBDIVISION - SAN BENITO COUNTY

MASONRY WALL SPECIFICATIONS (Special Inspection Required)

GENERAL

- ✓ All masonry construction shall comply with the requirements of the 2013 CBC sections 2104A.1.1 through 2104A.4 and the TMS 602/ACI 530.1/ASCE 6. Hollow grout filled and steel reinforced load-bearing concrete masonry units shall meet the requirements of 2013 CBC and ASTM C 90, latest edition, for load-bearing CMU.
- ✓ All masonry shall be laid true, level, and plumb in accordance with the drawings. All CMU shall be laid in a running bond unless otherwise indicated. Brace masonry during construction to assure stability. Place mortar in accordance with TMS 602/ACI 530.1/ASCE 6 article 3.3B. Initial bed joint shall not be less than 1/4" or more than 3/4". All head and bed joints shall be a nominal 3/8" thick not to exceed 5/8", unless otherwise required. All mortar joints on exposed walls shall be concave and struck to produce a dense, slightly concave surface well bonded to the surface of the masonry unit.

SUBMITTALS

- ✓ Submit material certificates certifying compliance of concrete masonry units, steel reinforcing bars, anchors, ties, fasteners, and metal accessories, and preformed control joint gaskets.

BLOCK

- ✓ Concrete masonry units to be 1,900 psi minimum.
- ✓ Place control joints every 40 lineal feet.
- ✓ Linear shrinkage shall not exceed 0.065 percent.
- ✓ Concrete masonry units shall be medium density units manufactured in Northern California.

MORTAR

- ✓ Type 'M' or 'S' only. Masonry or Plastic Cement prohibited.
- ✓ Projections 1/2-inch or larger need to be removed.
- ✓ Joints should be 3/8-inch +/- 1/8 inch for Horiz and Vert joints.
- ✓ 1,500 psi min at 28 days.

GROUT

- ✓ Slump 8 inches (+/- 1-inch) to allow coverage over reinforcing steel.
- ✓ 2,000 psi required at 28 days.
- ✓ Provide mix design and test reports indicating types and proportions of materials according to specifications of ASTM C476.

GROUT POURS

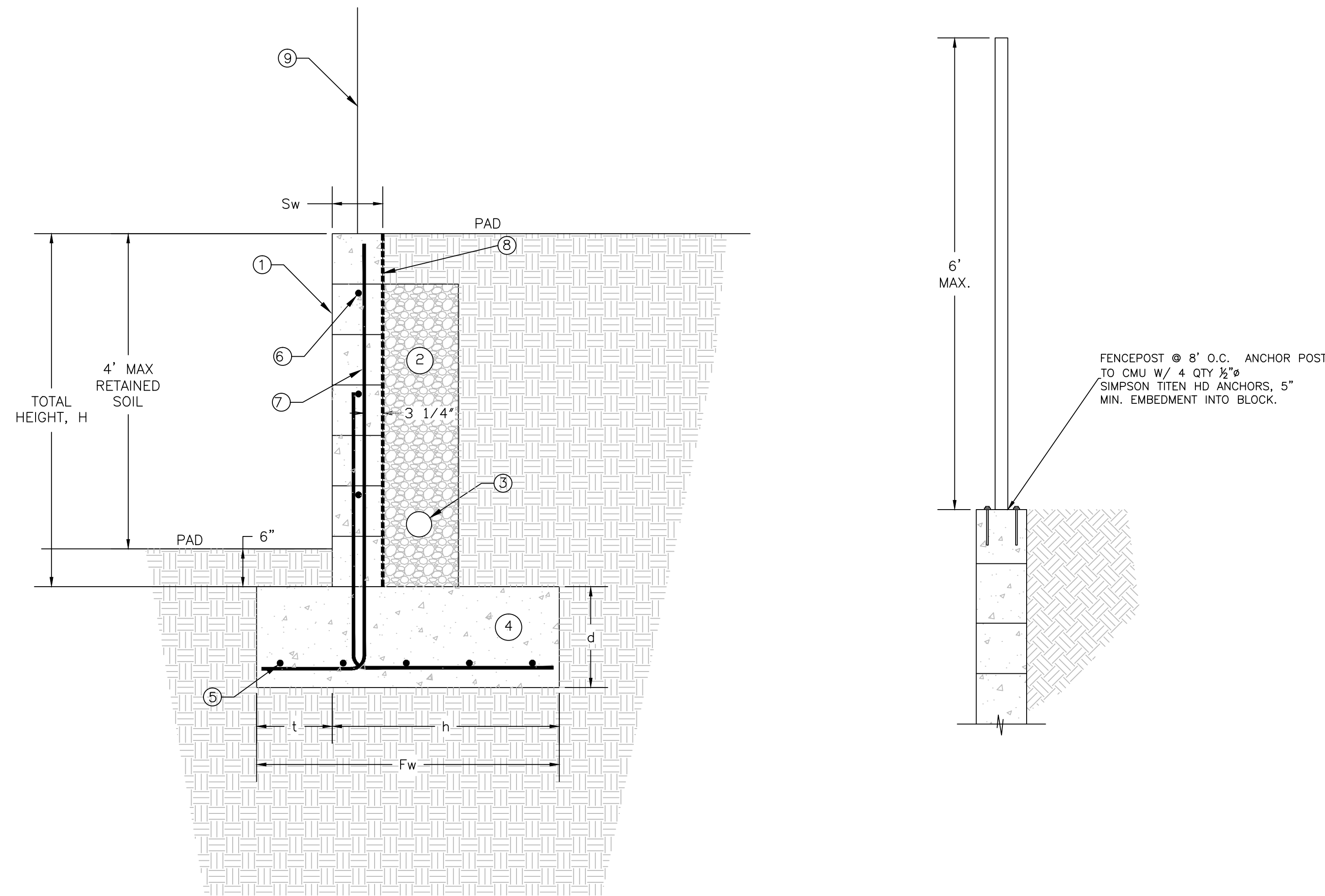
- ✓ 6-foot max pour height.
- ✓ Grout lifts should be stopped 1.5 inches below mortar joint between lifts.
- ✓ Mechanical vibration is required.
- ✓ Concrete pour should commence w/o more than 1 hour interruption during the pour.

REINFORCING STEEL

- ✓ Grade 60 or better.
- ✓ Vertical rebar in footing to be continuous to at least 30 inches above top of footing.
- ✓ Tolerance for placement, 1-inch.
- ✓ Minimum overlap 30 bar diameters
- ✓ Double reinforcing steel at openings, such as doors and windows.
- ✓ Secure reinforcing steel every 6 feet.
- ✓ Place horizontal rebar outside vertical rebar at corners.

MASONRY WALL NOTES

1. 8" CMU $f'_m = 1900$. PSI, $F_y = 60000$. PSI WITH STUCCO VENEER. COLOR BY OWNER.
2. CLASS II PERMEABLE MATERIAL, 12" WIDE.
3. 4" ϕ SCH. 40 PVC OR SDR 35 PERFORATED DRAIN PIPE OUTLET EVERY 50' TO THE NEAREST DRAINAGE AREA. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
4. CONC. FOOTING $F'_c = 2500$ psi 3" MIN. REBAR COVER
5. LONGITUDINAL REINFORCING PER TABLE, THIS SHEET.
6. HORIZONTAL REINFORCING PER TABLE, THIS SHEET.
7. VERTICAL REINFORCING PER TABLE, THIS SHEET.
8. MASTERSEAL HLM 5000-R (ROLLER GRADE) ELASTOMERIC WATERPROOFING MEMBRANE. APPLY TWO COATS, OR PER MANUFACTURER'S RECOMMENDATIONS.
9. FENCEPOST PER DETAIL, THIS SHEET.



TYPICAL MASONRY RETAINING WALL
NOT TO SCALE

FOOTING & REBAR SCHEDULE

Total Height, H (ft.)	Stem Reinforcing		Footing Reinforcing				Total Footing Width, Fw	
	Vertical	Horizontal	Longitudinal	Stem Width, Sw	Toe Width, t	Heel Width, h		Footing Thickness, d
2.5	#4 @ 16" O.C.	#4 @ 16" O.C.	#4 @ 12" O.C.	8"	1'	1'-6"	2'	2'-6"
4.5	#4 @ 16" O.C.	#4 @ 16" O.C.	#4 @ 12" O.C.	8"	1'-6"	2'-0"	2'	3'-6"

RECORD DRAWING

IMPROVEMENTS HAVE NOT BEEN SURVEYED IN ORDER TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATIONS

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DATE: JANUARY 8, 2021



MASONRY RETAINING WALL DETAILS

RANCHO VISTA SUBDIVISION - SAN BENITO COUNTY

Gularte
& ASSOCIATES, INC.
Geotechnical Consultants

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FILE NO: 4089

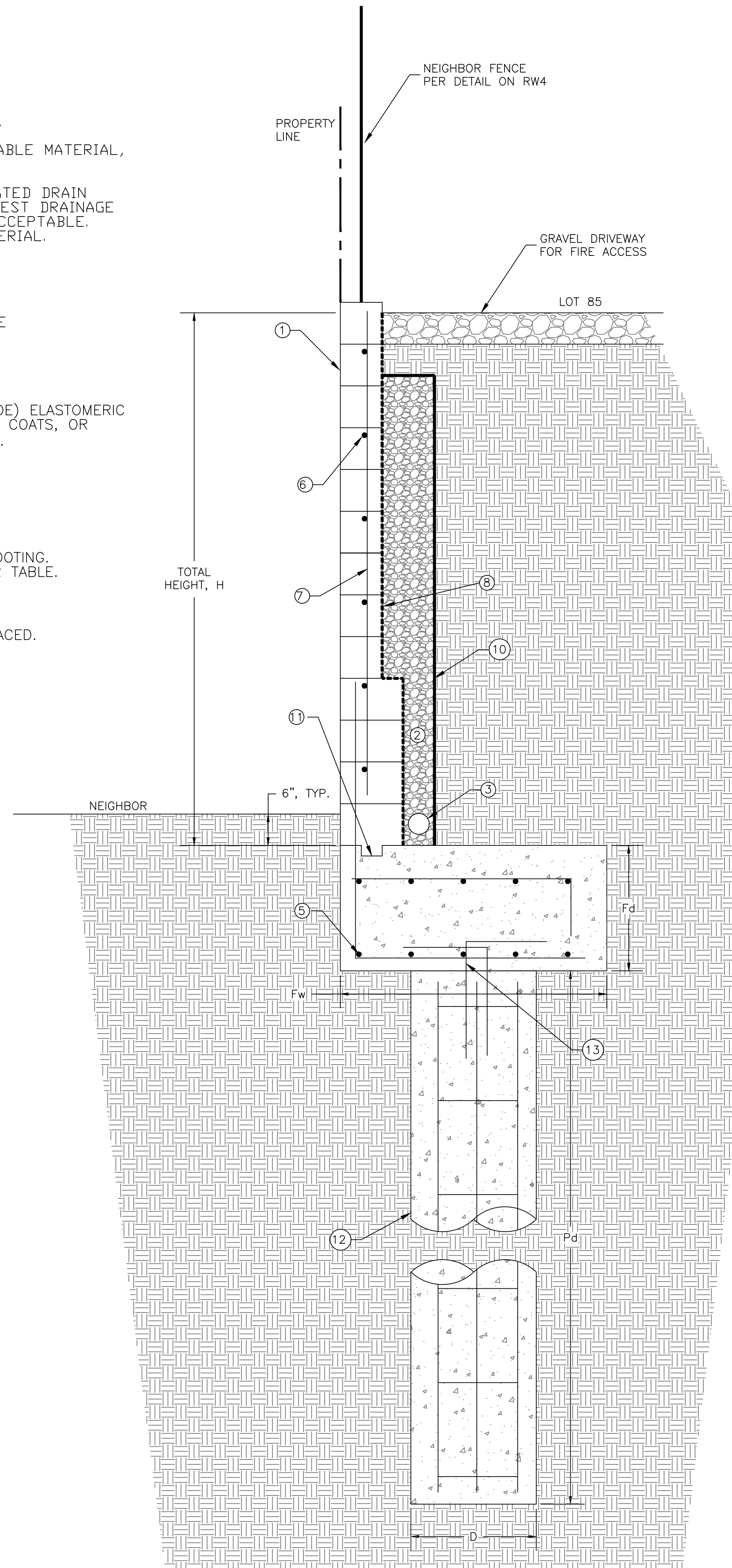
REV. DATE NOV. 14, 2017

SHT. 33 OF 34

REFERENCE: Drawing Provided By

MASONRY WALL NOTES

1. CMU BLOCK PER TABLE
f'm= 1900. PSI, Fy= 60000. PSI
w/ STUCCO VENEER. COLOR BY OWNER.
2. CALTRANS CLASS ONE, TYPE B PERMEABLE MATERIAL,
12" WIDE.
3. 4"Ø SCH. 40 PVC DR SDR 35 PERFORATED DRAIN
PIPE OUTLET EVERY 50' TO THE NEAREST DRAINAGE
AREA. BLACK CORRUGATED PIPE NOT ACCEPTABLE.
UNDERLAY DRAIN WITH 4" FILTER MATERIAL.
4. CONC. FOOTING
f'c=2500 psi
3' MIN. REBAR COVER
5. LONGITUDINAL REINFORCING PER TABLE
6. HORIZONTAL REINFORCING PER TABLE
7. VERTICAL REINFORCING PER TABLE
8. MASTERSEAL HLM 5000-R (ROLLER GRADE) ELASTOMERIC
WATERPROOFING MEMBRANE. APPLY TWO COATS, OR
PER MANUFACTURER'S RECOMMENDATIONS.
9. NOT USED.
10. MIRAFI 140N FILTER FABRIC, OR EQUIV.
11. 2"x4" KEY AT CONSTRUCTION JOINT.
12. CIDH CONCRETE PIER, CENTERED ON FOOTING.
DIAMETER, DEPTH & REINFORCEMENT PER TABLE.
#3 STIRRUPS AT 18" O.C.
f'c = 2,500 PSI MIN.
13. 4 QTY. 18"x18" #6 REBAR, EVENLY SPACED.



TYPICAL MASONRY RETAINING WALL
W/ PIER FOUNDATION AT LOT 85
NOT TO SCALE

**MASONRY WALL SPECIFICATIONS
(Special Inspection Required)**

GENERAL

- ✓ All masonry construction shall comply with the requirements of the 2016 CBC and the TMS 602/ACI 530.1/ASCE 6. Hollow grout filled and steel reinforced load-bearing concrete masonry units shall meet the requirements of 2016 CBC and ASTM C 90, latest edition, for load-bearing CMU.
- ✓ All masonry shall be laid true, level, and plumb in accordance with the drawings. All CMU shall be laid in a running bond unless otherwise indicated. Brace masonry during construction to assure stability. Place mortar in accordance with TMS 602/ACI 530.1/ASCE 6 article 3.3B. Initial bed joint shall not be less than 1/4" or more than 3/4". All head and bed joints shall be a nominal 3/8" thick not to exceed 5/8", unless otherwise required. All mortar joints on exposed walls shall be concave and struck to produce a dense, slightly concave surface well bonded to the surface of the masonry unit.

SUBMITTALS

- ✓ Submit material certificates certifying compliance of concrete masonry units, steel reinforcing bars, anchors, ties, fasteners, and metal accessories, and preformed control joint gaskets.

BLOCK

- ✓ Concrete masonry units to be 1,900 psi minimum.
- ✓ Place control joints every 40 lineal feet.
- ✓ Linear shrinkage shall not exceed 0.065 percent.
- ✓ Concrete masonry units shall be medium density units manufactured in Northern California.

MORTAR

- ✓ Type 'M' or 'S' only. Masonry or Plastic Cement prohibited.
- ✓ Projections 1/2-inch or larger need to be removed.
- ✓ Joints should be 3/8-inch +/- 1/8 inch for Horiz and Vert joints.
- ✓ 1,500 psi min at 28 days.

GROUT

- ✓ Slump 8 inches (+/- 1-inch) to allow coverage over reinforcing steel.
- ✓ 2,000 psi required at 28 days.
- ✓ Provide mix design and test reports indicating types and proportions of materials according to specifications of ASTM C476.

GROUT POURS

- ✓ 6-foot max pour height.
- ✓ Grout lifts should be stopped 1.5 inches below mortar joint between lifts.
- ✓ Mechanical vibration is required.
- ✓ Concrete pour should commence w/o more than 1 hour interruption during the pour.

REINFORCING STEEL

- ✓ Grade 60 or better.
- ✓ Vertical rebar in footing to be continuous to at least 30 inches above top of footing.
- ✓ Tolerance for placement, 1-inch.
- ✓ Minimum overlap 30 bar diameters
- ✓ Double reinforcing steel at openings, such as doors and windows.
- ✓ Secure reinforcing steel every 6 feet.
- ✓ Place horizontal rebar outside vertical rebar at corners.

RECORD DRAWING

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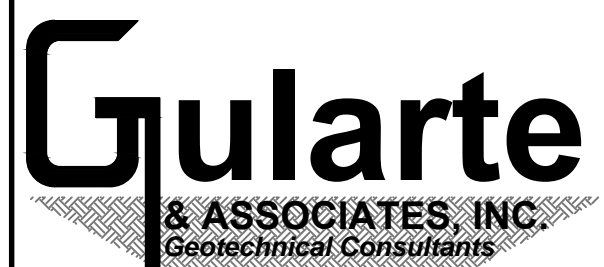
DATE: JANUARY 8, 2021



Total Height, H (ft.)	Stem Reinforcing			Footing & Pier Reinforcing						
	Vertical	Horizontal	Longitudinal	Pier Diameter, D	Pier Depth, Pd	Pier Spacing	Vertical Pier Reinforcing	Stem Width, Sw	Footing Thickness, Fd	Total Footing Width, Fw
2.5	#4 @ 16" O.C.	#4 @ 16" O.C.	#5 @ 10" O.C.	12"	6'	8'	6Qty #5	8"	1'	2'
4.5	#5 @ 16" O.C.	#5 @ 16" O.C.	#5 @ 10" O.C.	18"	7'	6'	6Qty #6	8"	1'-6"	2'-6"
6.5	#5 @ 8" O.C. lower stem, #5 @ 16" O.C. upper stem	#5 @ 16" O.C.	#5 @ 10" O.C.	24"	8'	6'	8Qty #6	12" lower stem, 8" upper stem	2'	3'-6"
8.5	#7 @ 8" O.C.	#5 @ 16" O.C.	#5 @ 10" O.C.	24"	10'	6'	8Qty #8	12" lower stem, 8" upper stem	2'	4'-3"

MASONRY RETAINING WALL DETAILS

RANCHO VISTA SUBDIVISION, LOT 85 - SAN JUAN BAUTISTA, CA



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FILE NO: 4089B

REV. DATE MARCH 5, 2018

SHT. 34 OF 34

REFERENCE: Drawing Provided By