

GOKULAM, LLC

LOT B DESIGN REVIEW

APN: 029-34-004

OWNER/DEVELOPER:

GOKULAM LLC,
680 E. CALAVERAS BLVD.
MILPITAS, CA 95035
PHONE: (408) 833-9743
EMAIL: gokulam@inf-usa.org

CIVIL ENGINEER:

C2G/CIVIL CONSULTANTS GROUP, INC.
4444 SCOTTS VALLEY DRIVE STE. 6
SCOTTS VALLEY, CA 95066
OFFICE: (831) 438-4420

SURVEYOR

ALPHA LAND SURVEYS, INC.
4444 SCOTTS VALLEY DRIVE STE. 7
SCOTTS VALLEY, CA 95066
OFFICE: (831) 438-4453

SEPTIC

LC ENGINEERING
598 E. SANTA CLARA ST., SUITE #270
SAN JOSE, CA 95112
OFFICE: (510) 236-6114 EXT. 211

ARCHITECT

HAYDEN MOORE ARCHITECTURE
65 N. MICHIGAN AVENUE #12
PASADENA, CA 91106
OFFICE: (916) 342-7658

GENERAL NOTES

NO CHANGE TO THE GRADING PLAN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVES.

CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND INVERTS OF EXISTING UTILITY PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY OWNER OR OWNERS REPRESENTATIVES OF VARIANCE FROM THOSE SHOWN ON THE PLANS.

UNDERGROUND FACILITIES AND UTILITIES HAVE BEEN SHOWN BASED ON RECORD DRAWINGS AND VISIBLE EVIDENCE FOUND IN FIELD. NO WARRANTY IS MADE REGARDING THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. PRIOR TO CONSTRUCTION, DETERMINE THE EXACT LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, AND PRESERVE SAME FROM DAMAGE. PRIOR TO CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AT THE CROSSING POINTS WITH PROPOSED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNERS REPRESENTATIVES IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED. CONTACT UNDERGROUND SERVICES ALERT (USA) (1-800-227-2600) TWO (2) WEEKS PRIOR TO DIGGING. REPAIR UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES ASSOCIATED WITH CONTRACTOR'S FAILURE TO EXACTLY LOCATED AND PRESERVE UNDERGROUND FACILITIES AND UTILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES AND/OR AGENCIES TO VERIFY THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. AND SHALL NOTIFY U.S.A. @ (800) 227-2600 AT LEAST 48-HOURS IN ADVANCE OF EXCAVATION.

IF ANY INDICATIONS OF ARCHEOLOGICAL REMAINS ARE ENCOUNTERED DURING GRADING ACTIVITIES FOR ANY DEVELOPMENT WITHIN THE PROJECT SITE, ALL WORK SHALL BE HALTED WITHIN 200 FOOT RADIUS OF THE FIND. OWNER SHALL RETAIN A QUALIFIED ARCHEOLOGIST RETAINED TO DETERMINE THE NATURE OF THE DISCOVERY AND RECOMMEND APPROPRIATE EVALUATION PROCEDURES.

PROJECT DATA

ADDRESS: 2425 OLD CALAVERAS ROAD, MILPITAS, CA 95035
ZONING DESIGNATION: D2 - HS - HILLSIDE
APN: 029-34-004
LOT SIZE: 78.93 ACRES (3,438,191 SQ. FT.)

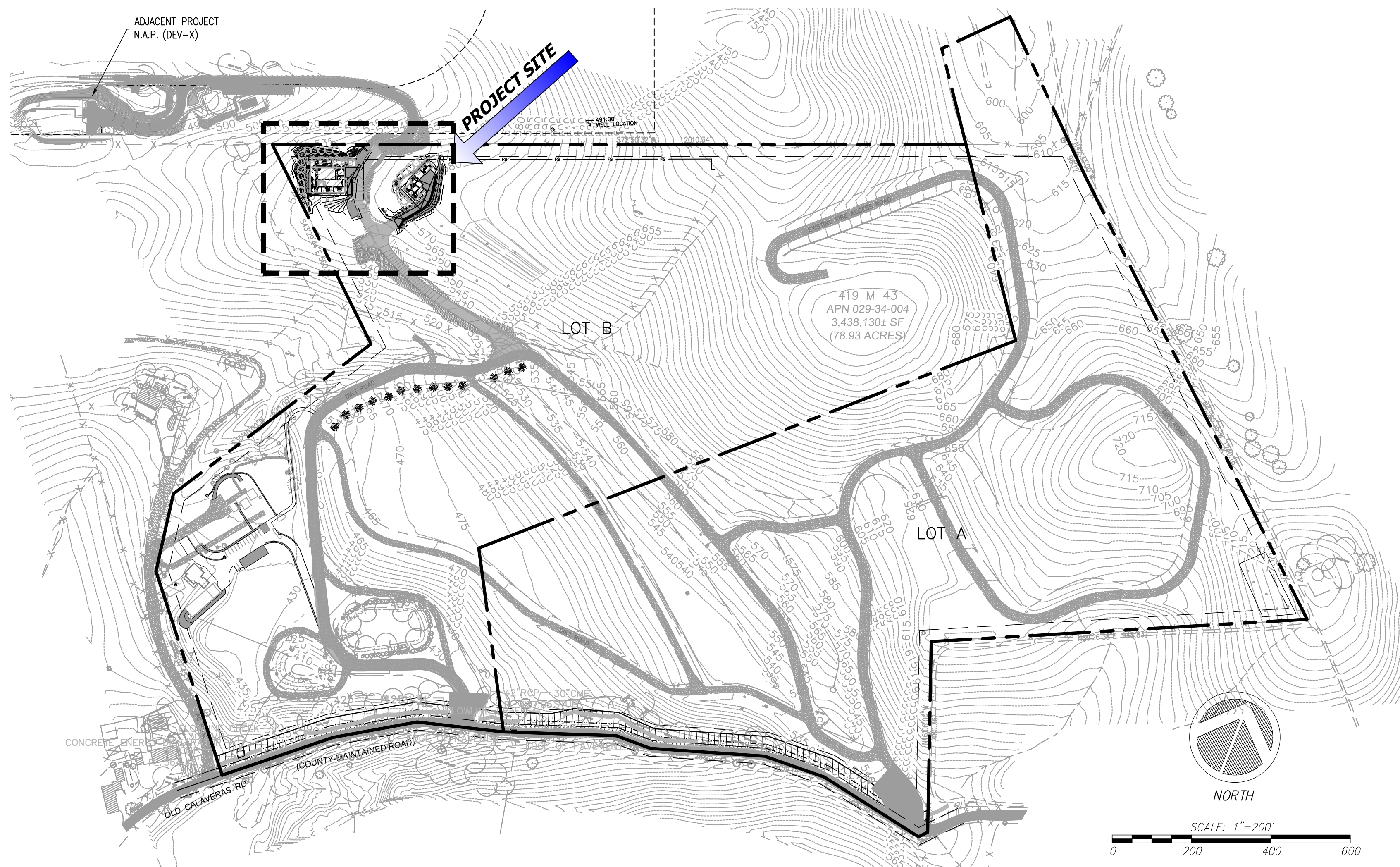
APPLICABLE CODES

ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW OR THE MOST CURRENT CODES AND ORDINANCES AT THE TIME OF SUBMITTAL:

2022 CALIFORNIA CODES

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA FIRE CODE

SANTA CLARA CODE OF ORDINANCES



SCOPE OF WORK

THE COMPLETE SCOPE OF WORK PROPOSED UNDER THIS PHASE IS FOR THE DESIGN REVIEW AND PRELIMINARY GRADING APPLICATION FOR THE STRUCTURES LISTED BELOW FOR APN: 029-34-004 LOCATED AT 2425, OLD CALAVERAS ROAD, MILPITAS, CA 95035. THE DESIGN REVIEW AND PRELIMINARY GRADING APPLICATION WILL COVER ALL NECESSARY DOCUMENTATION, PLANS AND SPECIFICATIONS REQUIRED FOR THE APPROVAL OF THESE STRUCTURES AT THE SPECIFIED LOCATION.

THE STRUCTURES INCLUDED IN THIS PHASE ARE:

- (N) 7990 SQ. FT. OF GROSS FLOOR AREA FOR PRIMARY HOUSE
- (N) 1689 SQ. FT. OF GROSS FLOOR AREA FOR ADU AND JADU
- (N) 400 SQ. FT. OF DETACHED GARAGE

KEY POINTS TO NOTE ABOUT THE PROPOSED SCOPE OF WORK:

- THE ACCESS ROAD COMING UP FROM OLD CALAVERAS ROAD UNTIL THIS BUILDING SITE IS SHARED WITH THE ROADS THAT ARE BEING BUILT UNDER PLAN 22-006 FOR OUR NEIGHBOR'S BARSANA RESIDENCE WHICH IS ALMOST READY TO GO FOR ZONING ADMINISTRATION HEARING. WE HAVE AN EASEMENT AGREEMENT WITH BARSANA LLC TO SHARE THIS ACCESS ROAD FOR BOTH PROPERTIES. WE HAVE INCLUDED THE ROAD PROFILES AND DETAILS FOR THE PORTION OF THE ROAD THAT IS SHARED BETWEEN THESE TWO APPLICATIONS.
- THE GRADING QUANTITIES INCLUDED IN THIS PROJECT ARE INCREMENTAL REQUIRED FOR ESTABLISHING THE BUILDING SITES AND THE DRIVEWAYS OF THE PRIMARY HOUSE AND ADU / JADU.
- THIS LOCATION FOR THE PROJECT WAS CHOSEN AS IT MINIMIZES GRADING QUANTITIES REQUIRED TO ESTABLISH THESE STRUCTURES.
- APPROVED SEPTIC SYSTEM (SR0853368) AND DRINKING WATER CLEARANCE (SR0865661) ALREADY INCLUDED PROVISION FOR THE PRIMARY HOUSE AND ADU/JADU INCLUDED IN THIS APPLICATION.
- THE VISUAL ANALYSIS HAS BEEN UPDATED TO SHOW THESE STRUCTURES.

IN ADDITION TO THESE STRUCTURES WE HAVE BUILDING PERMIT AND PLANNING APPROVAL APPLICATIONS UNDERWAY TO BUILD FACILITIES FOR COMMERCIAL AGRICULTURAL OPERATIONS OF GOKULAM LLC ON THE PROPERTY. WE HAVE INCLUDED A COMPREHENSIVE LIST OF ALL EXISTING PROPOSED, REGULARISED, UNDER VIOLATION AND FUTURE IMPROVEMENTS AS OUTLINED BELOW.

AS PART OF PLANNING APPLICATION PLN20-125 WE HAVE RECEIVED GRADING APPROVAL/ DESIGN REVIEW ADMINISTRATIVE APPROVAL FOR THE INFRASTRUCTURES REQUIRED FOR OUR OPERATIONS AND THE BUILDING PERMIT APPLICATIONS (AR23-1185) HAVE BEEN SUBMITTED FOR THE FOLLOWING:

- (N) 1490 SQ. FT. OF ENCLOSED AREA FOR AGRICULTURE SHED
- (N) 2065 SQ. FT. OF ENCLOSED AREA FOR LIVESTOCK SHELTER BUILDING

- (N) 500 SQ. FT. OF ENCLOSED AREA FOR FEED STORAGE SHED
- (N) 1750 SQ. FT. OF CARPORT FOR HOUSING AGRICULTURAL VEHICLES
- (N) 402 SQ. FT. OF ENCLOSED AREA FOR WORKSHOP AND WELL SHED

THE SITE HAS 6 BUILDING PERMITS IN PROGRESS. DEV22-3196, DEV22-3201, DEV22-3202, DEV22-3206, DEV22-3207, DEV23-0115, THE SITE PLAN INCLUDES ALL STRUCTURES AND THEIR CORRESPONDING PERMIT NUMBERS. THE SPECIFIC DETAILS FOR EACH STRUCTURE ARE AS FOLLOWS:

- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#1 - DEV22-3196
- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#2 - DEV22-3201
- (N) 500 SQ. FT. OF COVERED AREA FOR LIVESTOCK SHELTER#3 - DEV22-3202
- (N) 120 SQ. FT. OF COVERED AREA FOR STORAGE #1 - DEV22-3206
- (N) 120 SQ. FT. OF COVERED AREA FOR STORAGE #1 - DEV22-3207
- (N) 202,290 GALLON STEEL TANK FOR FIREFLOW & IRRIGATION (DEV23-0115)

WE HAVE A SPECIAL PERMIT APPLICATION IN PROGRESS FOR ONE 1200 SQ. FT. (N) SMALL SCALE PERMANENT AG EMPLOYEE HOUSING (PLN22-234)

EXISTING IMPROVEMENTS THAT ARE GOING TO REMAIN ARE LABELLED AS EXISTING. EG: "EXISTING TOOL SHED TO REMAIN"

EXISTING IMPROVEMENTS THAT ARE UNDER VIOLATIONS AND THAT ARE GOING TO REMAIN AND WILL BE REGULARIZED IS CALLED OUT AS '5 EXISTING WELL SHED TO BE REGULARIZED' REF SHEET C0.1 & C1.1 (PLEASE CHANGE THE SHEET NUMBERS ACCORDINGLY)

EXISTING IMPROVEMENTS THAT ARE UNDER VIOLATIONS AND THAT WILL BE DEMOLISHED ARE CALLED OUT AS EXISTING SHELTER TO BE DEMOLISHED (REF SHEET C0.1). SHEET C1.1 SHOWS THE EXISTING BUILDING NUMBERS 1,2,3,4,6 & 7 TO BE DEMOLISHED (VIOLATION VIO19-00082)

INDEX OF SHEETS

CIVIL PLANS:

- C0.1 - COVER SHEET
- C0.2 - OVERALL SITE PLAN
- C0.3 - SITE DISTANCE ANALYSIS
- C1.1 - EXISTING ACCESS ROAD PLAN AND PROFILE
- C1.2 - EXISTING ACCESS ROAD PLAN AND PROFILE
- C1.3 - EXISTING ACCESS ROAD PLAN AND PROFILE
- C1.4 - EXISTING ACCESS ROAD PLAN AND PROFILE
- C2.1 - GRADING & DRAINAGE PLAN
- C3.1 - EROSION CONTROL PLAN
- C3.2 - EROSION CONTROL DETAILS
- C4.1 - DETAILS

ARCHITECTURAL PLANS (MAIN RESIDENCE):

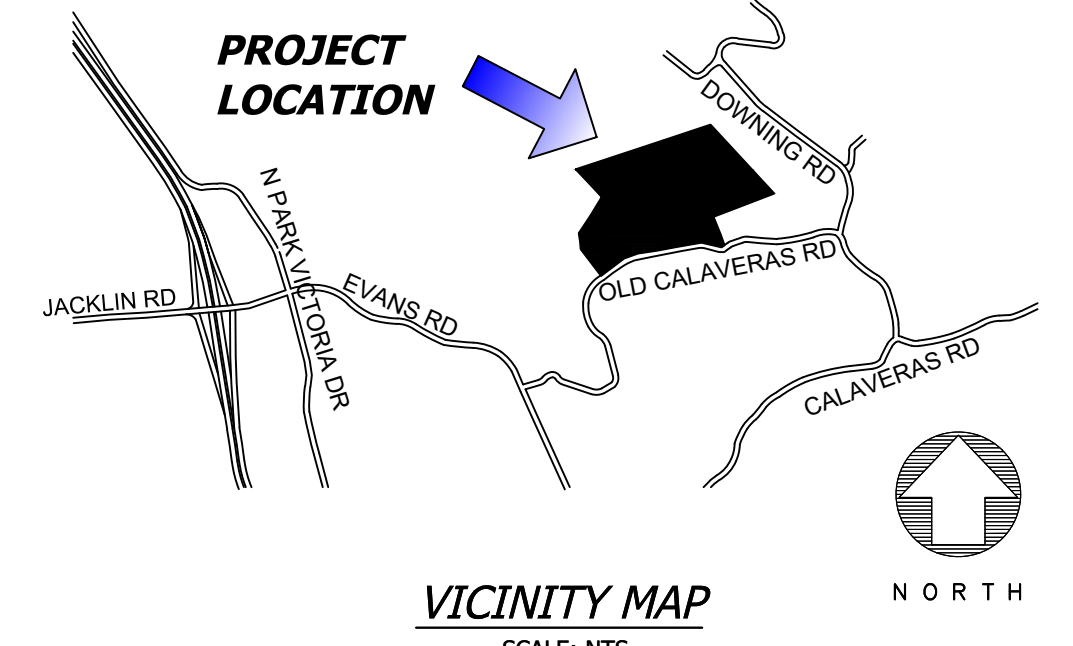
- A0.01 - ABBREVIATIONS, SYMBOLS & LEGENDS
- A3.01 - FLOOR PLAN LEVEL 1
- A3.02 - FLOOR PLAN LEVEL 2 AND LEVEL B
- A3.30 - ROOF PLAN
- A4.01 - EXTERIOR ELEVATIONS
- A4.02 - 3D VIEWS
- A5.02 - BUILDING SECTIONS

ARCHITECTURAL PLANS (ADU/JADU):

- A0.01 - ABBREVIATIONS, SYMBOLS & LEGENDS
- A3.01 - FLOOR PLAN
- A3.30 - ROOF PLAN
- A4.01 - EXTERIOR ELEVATIONS
- A4.02 - 3D VIEWS
- A5.02 - BUILDING SECTIONS

SEPTIC SYSTEM PLANS:

- SS1 - SEPTIC SYSTEM SITE PLAN
- SS2 - SEPTIC SYSTEM DETAILS
- SS3 - SEPTIC SYSTEM CALCULATIONS



CONTRACTOR RESPONSIBILITY

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

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE DESIGN PROFESSIONAL FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

CONSTRUCTION SURVEYING / STAKING

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL SURVEYING AND OR STAKING BY A LICENSED SURVEYOR FOR ALL CONSTRUCTION PURPOSES.

ADDITIONAL NOTES

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

- THE STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION, OF THE COUNTY OF SANTA CLARA SHALL GOVERN UNLESS OTHERWISE SPECIFIED HEREIN.

UNAUTHORIZED CHANGES AND USES

CAUTION: 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 THE PLANS

REVISIONS	BY

COVER



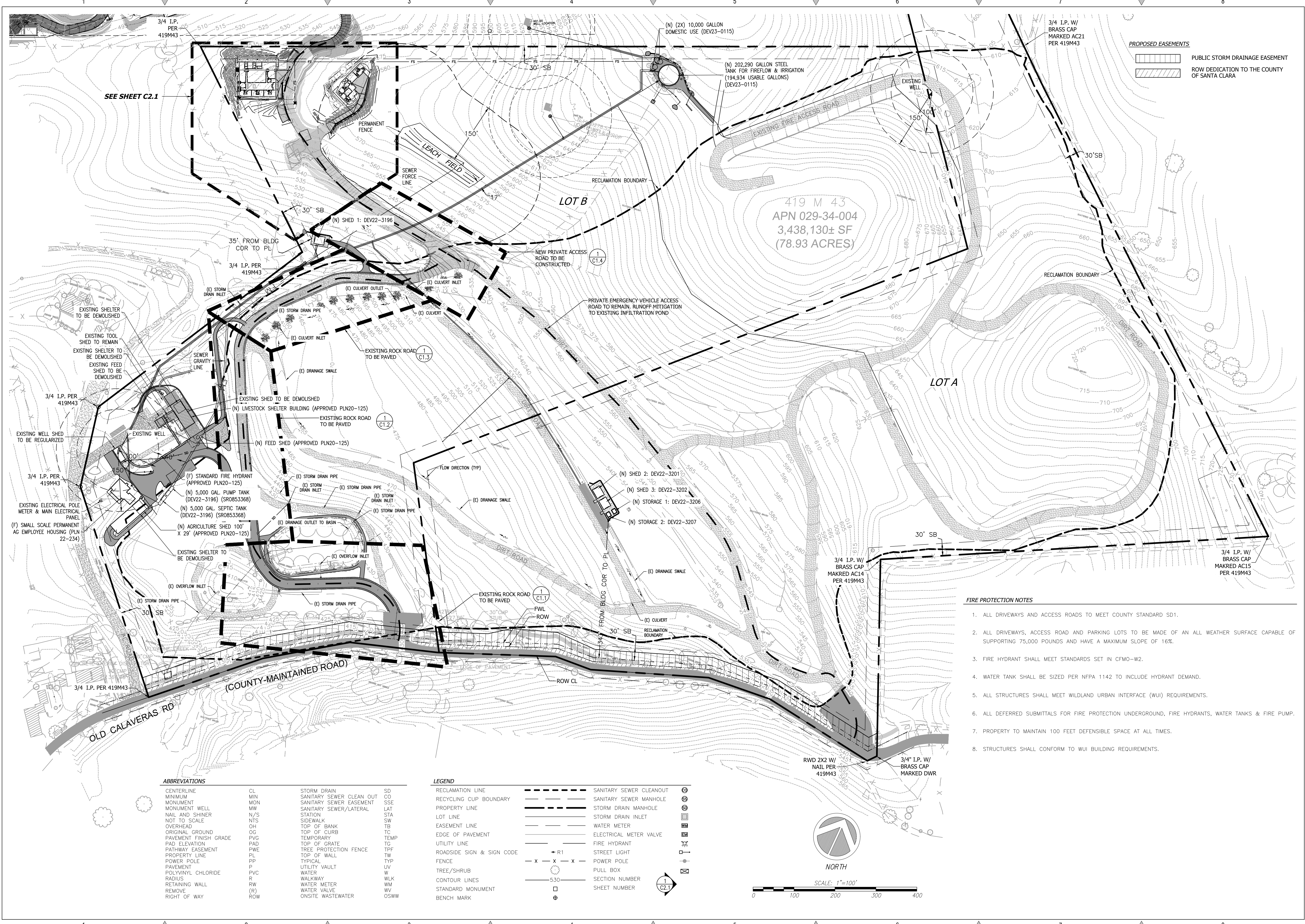
C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4444 SCOTTS VALLEY DRIVE
 SCOTTS VALLEY, CA 95066
 T (831) 438-4420 F (831) 438-4420
 By: Dave

GOKULAM, LLC.
 LOT B - DESIGN REVIEW
 2425 OLD CALAVERAS ROAD, MILPITAS
 APN: 029-34-004

Date:	06/15/2023
Scale:	AS SHOWN
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C0.1
	of 28 Sheets



Drawing: C:\Users\Dave\AppData\Local\Temp\AutoCAD\2344213002.05 - C01 - C0105.dwg
 Layout: C01 - COVER
 Last Printed: Thu, Jun 15, 2023 4:29pm
 Plot: 06/15/2023 4:29pm



SEE SHEET C2.1

419 M 43
APN 029-34-004
3,438,130± SF
(78.93 ACRES)

PROPOSED EASEMENTS
PUBLIC STORM DRAINAGE EASEMENT
ROW DEDICATION TO THE COUNTY OF SANTA CLARA

ABBREVIATIONS

CENTERLINE	CL
MINIMUM MONUMENT WELL	MIN
NAIL AND SHINER NOT TO SCALE	MW
OVERHEAD	N/S
ORIGINAL GROUND	OH
PAVEMENT FINISH GRADE	OG
PATHWAY EASEMENT	PVG
PROPERTY LINE	PAD
POWER POLE	PWE
POLYVINYL CHLORIDE	PL
RADIUS	PP
RETAINING WALL	P
REMOVE	PVC
RIGHT OF WAY	RW
	(R)
	ROW

LEGEND

RECLAMATION LINE	---
RECYCLING CUP BOUNDARY	---
PROPERTY LINE	---
LAT LINE	---
EASEMENT LINE	---
EDGE OF PAVEMENT	---
UTILITY LINE	---
ROADSIDE SIGN & SIGN CODE	---
FENCE	---
TREE/SHRUB	---
CONTOUR LINES	---
STANDARD MONUMENT	---
BENCH MARK	---

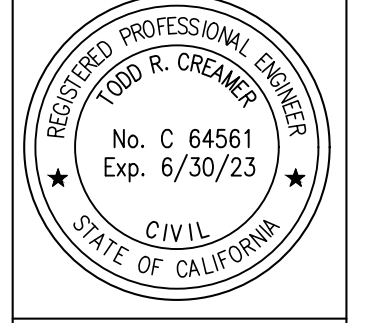
SANITARY SEWER CLEANOUT	⊗
SANITARY SEWER MANHOLE	⊙
STORM DRAIN MANHOLE	⊕
STORM DRAIN INLET	⊖
WATER METER	⊗
ELECTRICAL METER VALVE	⊙
FIRE HYDRANT	⊕
STREET LIGHT	⊖
POWER POLE	⊗
PULL BOX	⊙
SECTION NUMBER	⊕
SHEET NUMBER	⊖

FIRE PROTECTION NOTES

1. ALL DRIVEWAYS AND ACCESS ROADS TO MEET COUNTY STANDARD SD1.
2. ALL DRIVEWAYS, ACCESS ROAD AND PARKING LOTS TO BE MADE OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS AND HAVE A MAXIMUM SLOPE OF 16%.
3. FIRE HYDRANT SHALL MEET STANDARDS SET IN CFMO-W2.
4. WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE HYDRANT DEMAND.
5. ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS.
6. ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS & FIRE PUMP.
7. PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
8. STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.

REVISIONS	BY

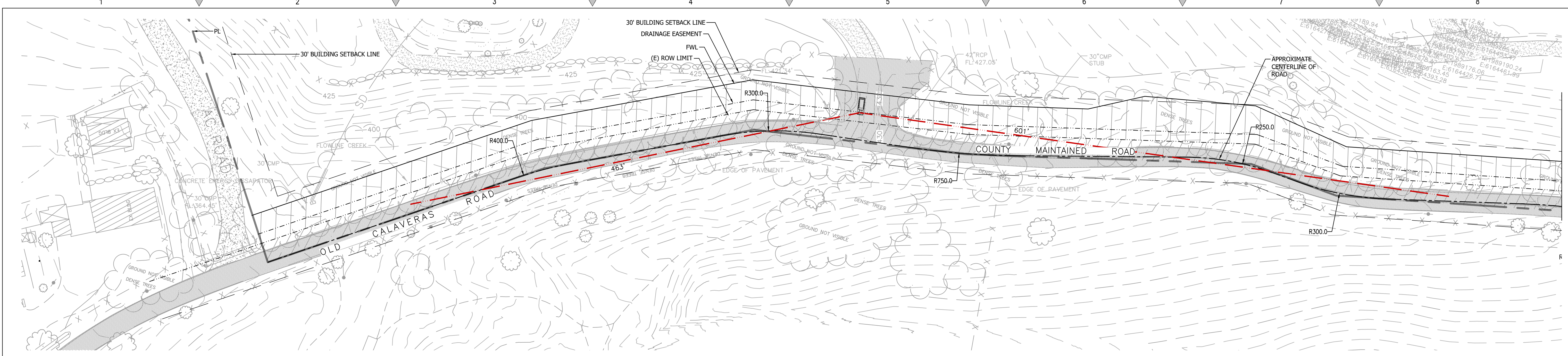
OVERALL SITE PLAN



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Job: 3007.05
Sheet: **C0.2**
of 28 Sheets



1 ENTRANCE- SITE DISTANCE ANALYSIS

Scale: 1"=50'



WEST BOUND



EAST BOUND

Decision Sight Distance

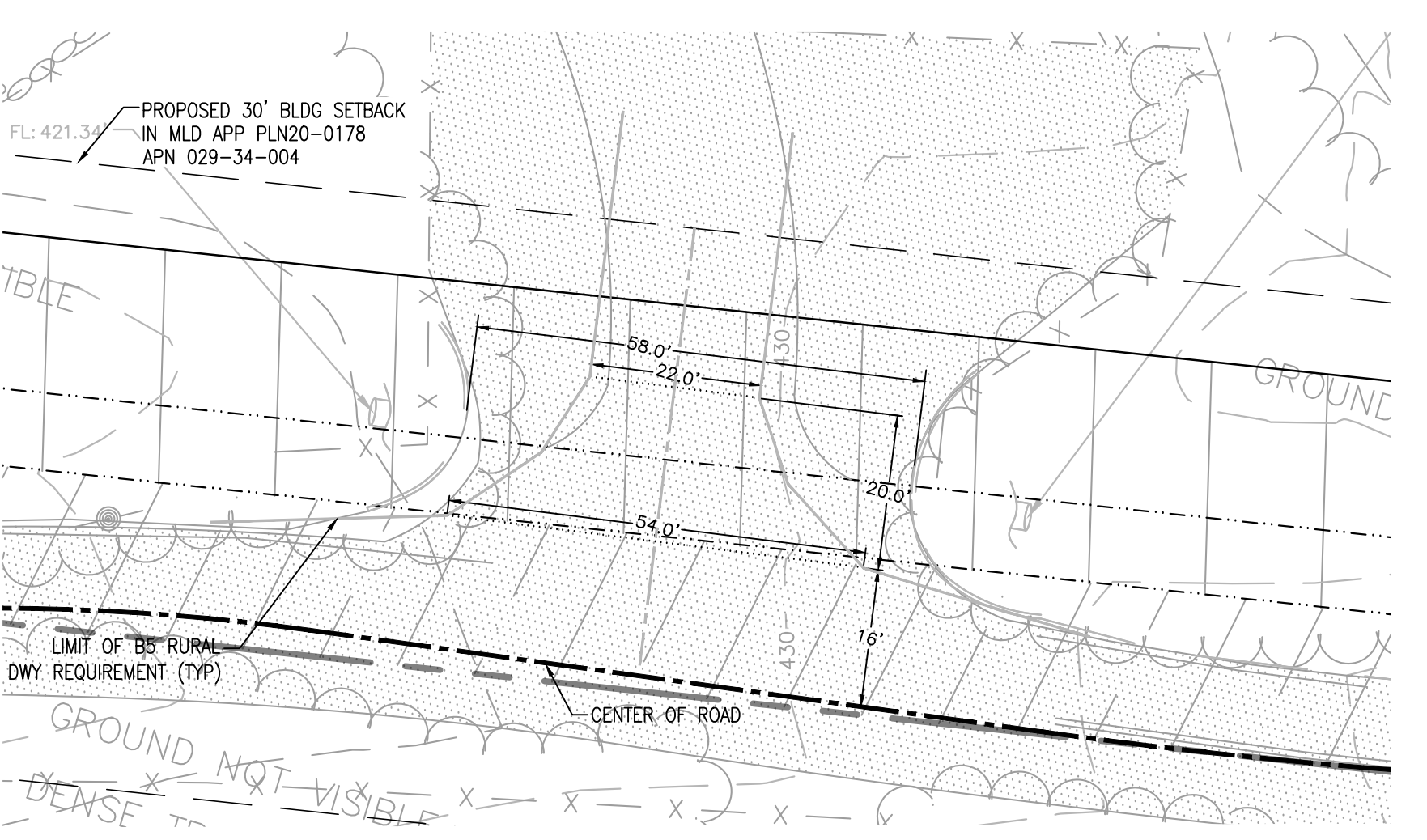
Design Speed (mph)	Decision Sight Distance (ft)
30	450
35	525
40	600
45	675
50	750
55	865
60	990
65	1,050
70	1,105
75	1,180
80	1,260

NOTES

- EXISTING SPEED LIMIT ON OLD CALAVERAS ROAD IS 30 MPH WHICH IS THE SPEED USED TO DETERMINE THE STOPPING SIGHT DISTANCE

2 ENTRANCE #1 - IMAGES

Scale: NTS



3 EXISTING DRIVEWAY CONFORMANCE TO B4 CITY STANDARD

Scale: 1"=20'

REVISIONS	BY

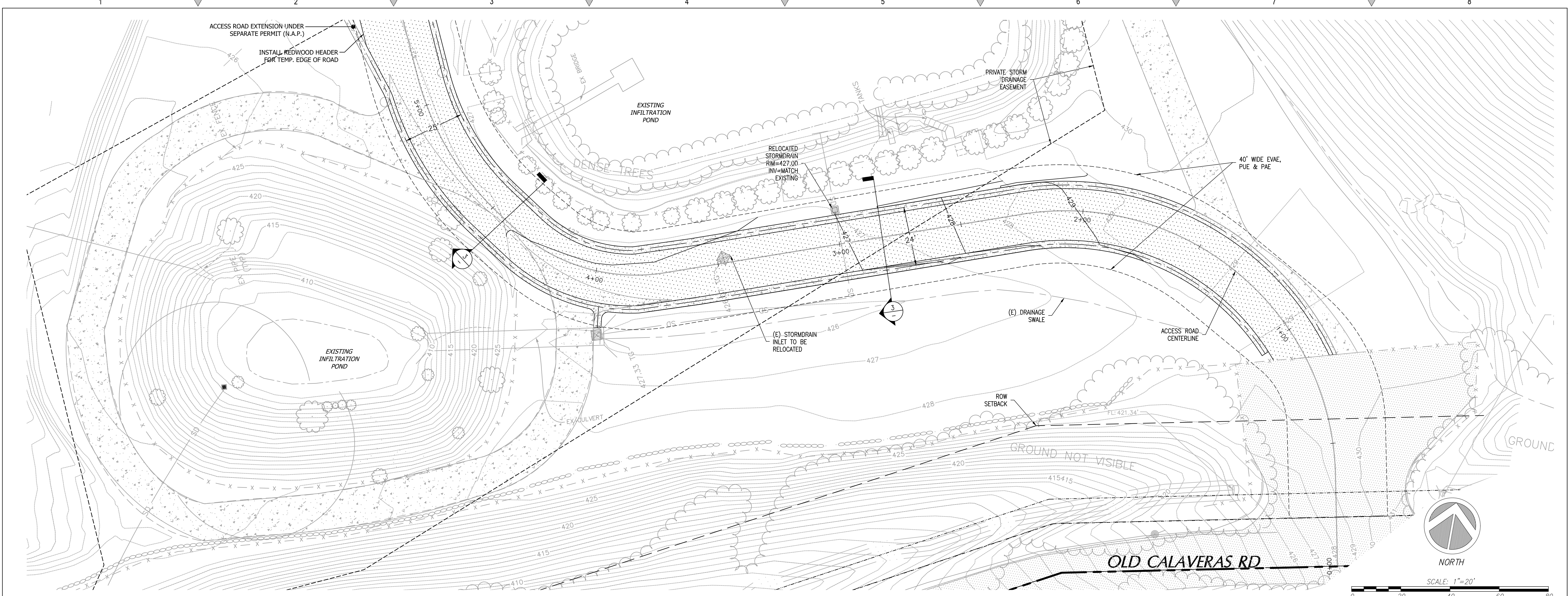
SITE DISTANCE ANALYSIS



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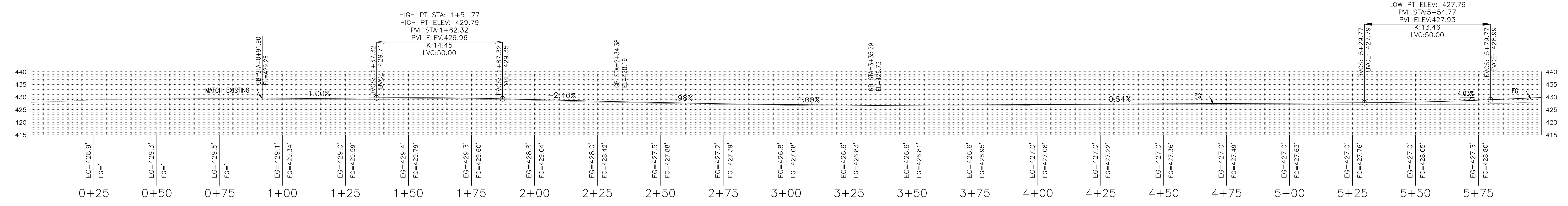
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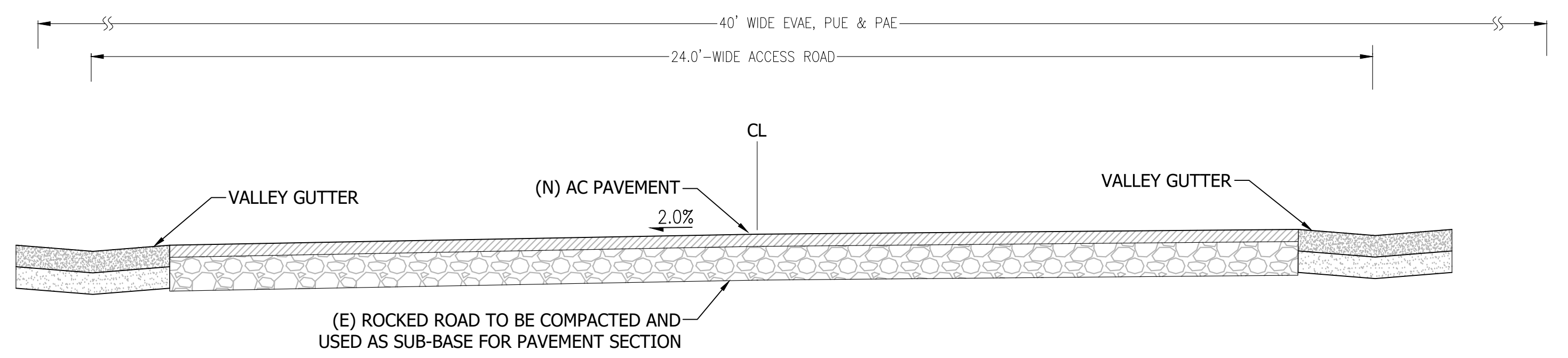
1 EXISTING ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 0+00 TO 6+00

Scale: 1:20

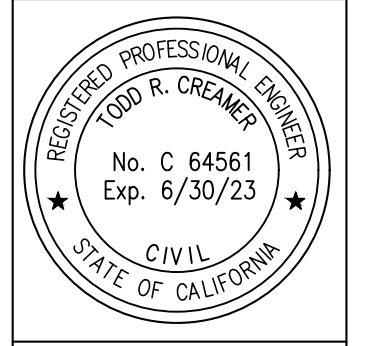


3 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY

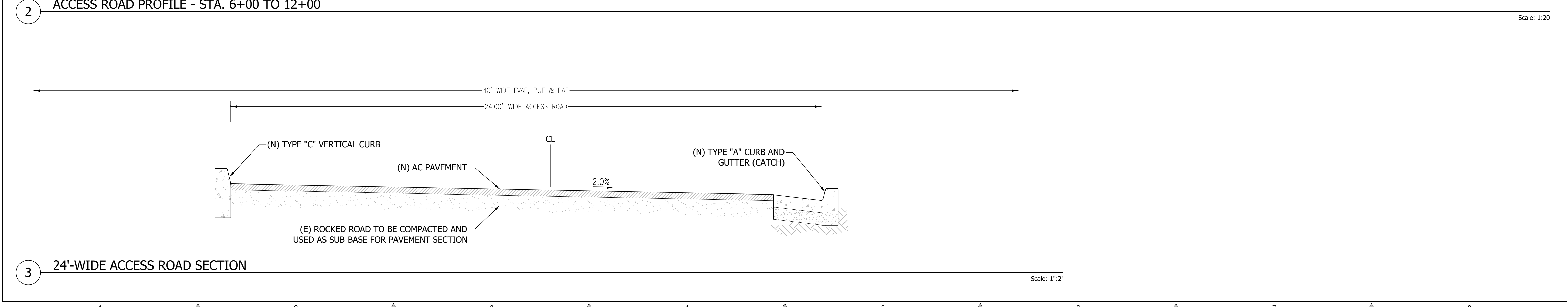
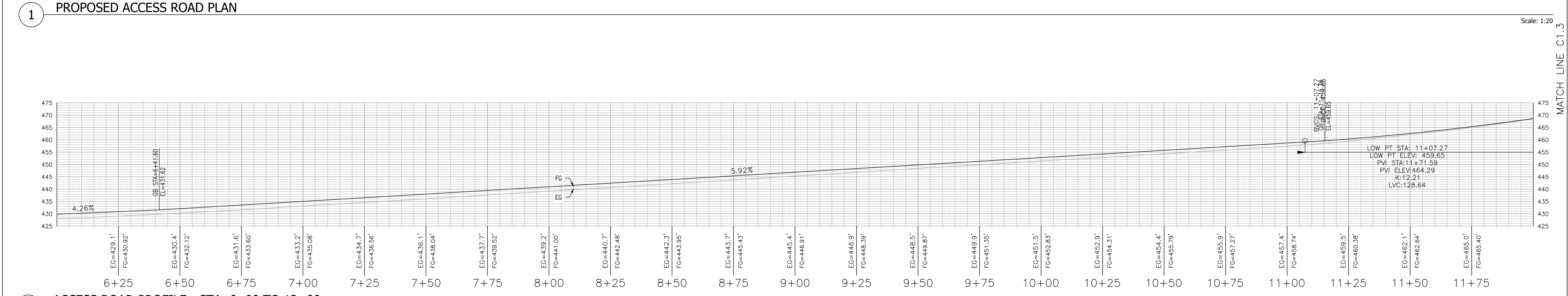
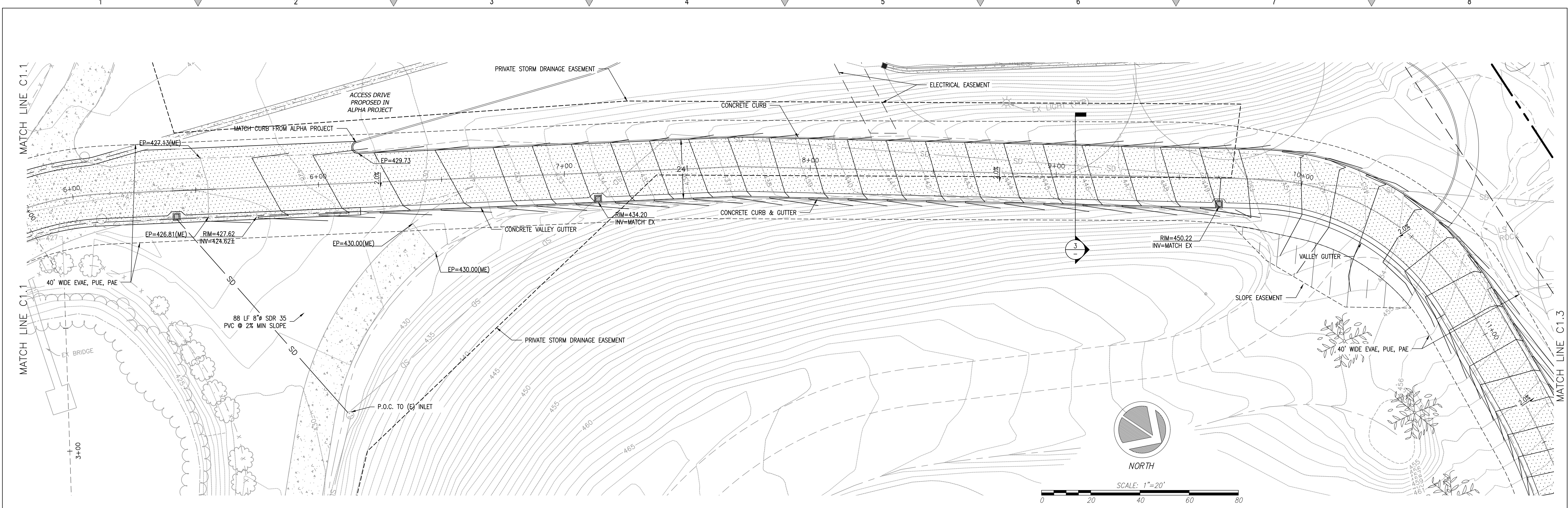
EXISTING ACCESS ROAD PLAN & PROFILES



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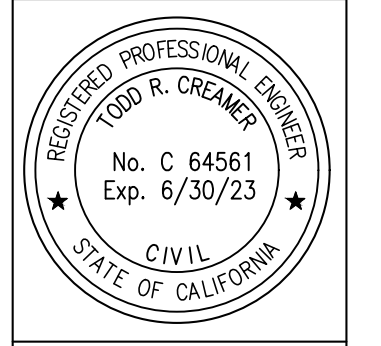
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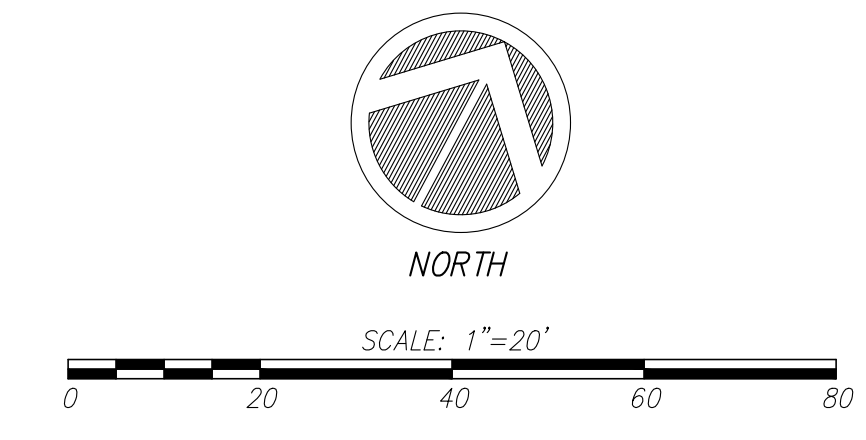
ACCESS ROAD PLAN & PROFILES



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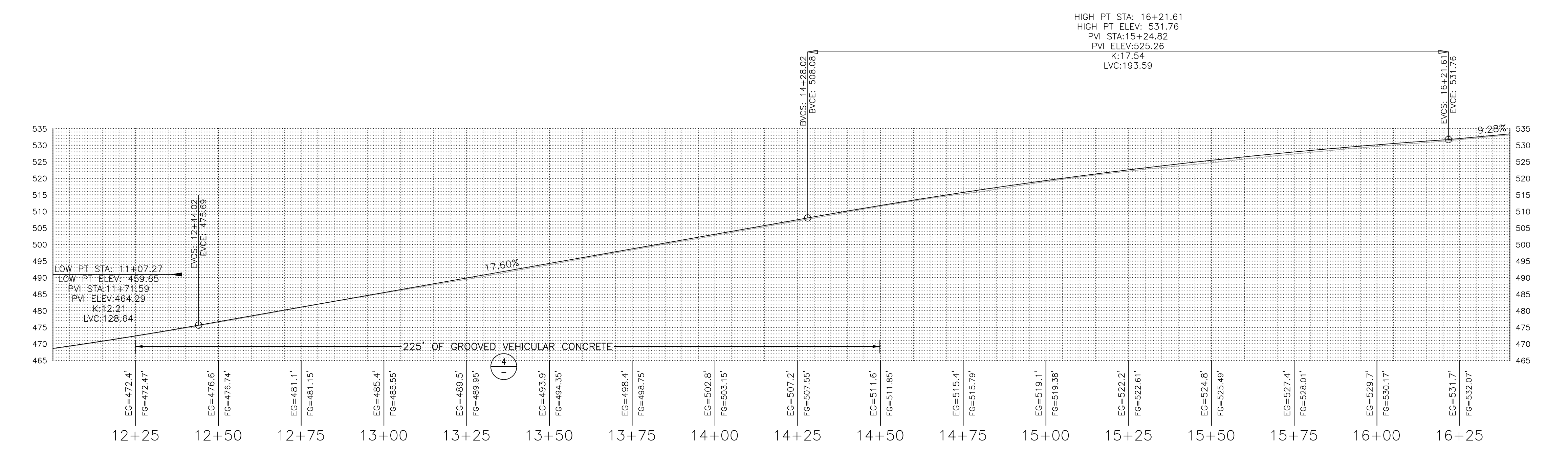
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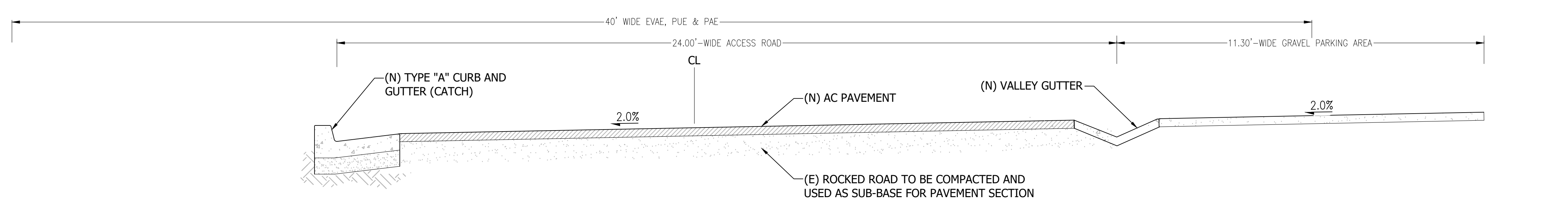


TREE INSTALLATION NOTES:
 TYPE: CITRUS SINENSIS 'CARA CARA' [NAVEL ORANGE]
 MATURE HEIGHT: 15-20 FEET
 SIZE: 2' x 2' BOX

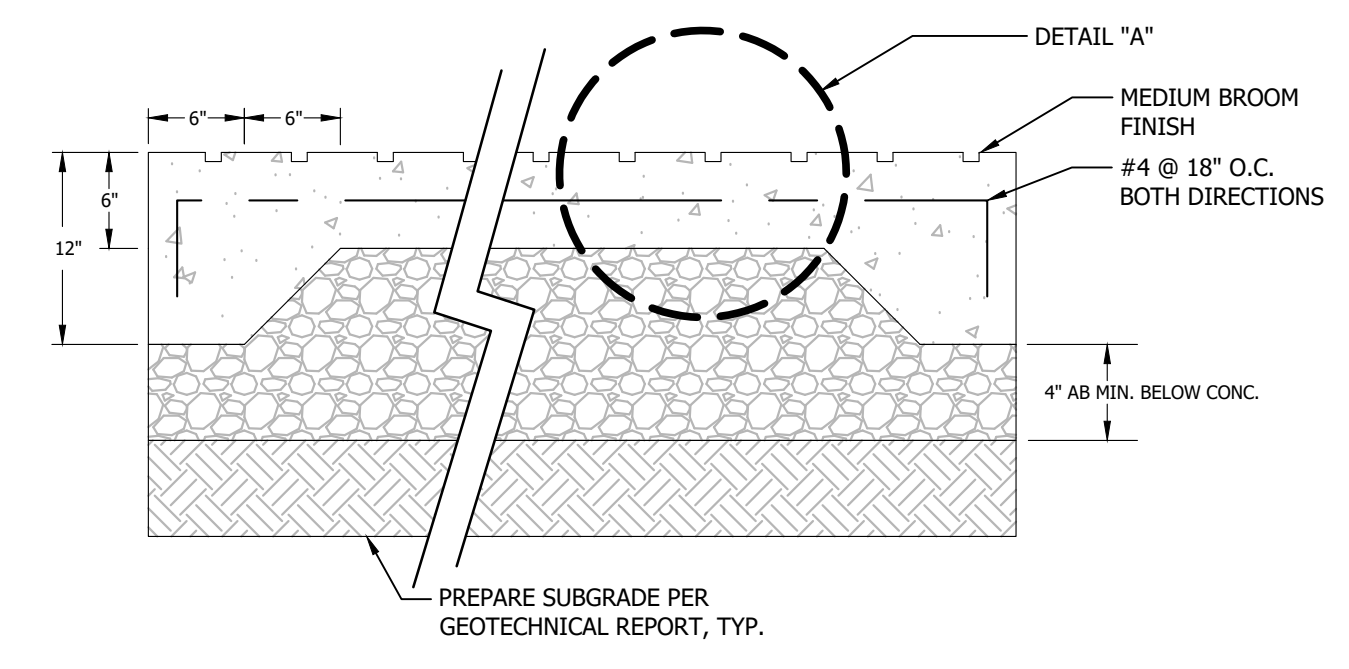
1 PROPOSED ACCESS ROAD PLAN



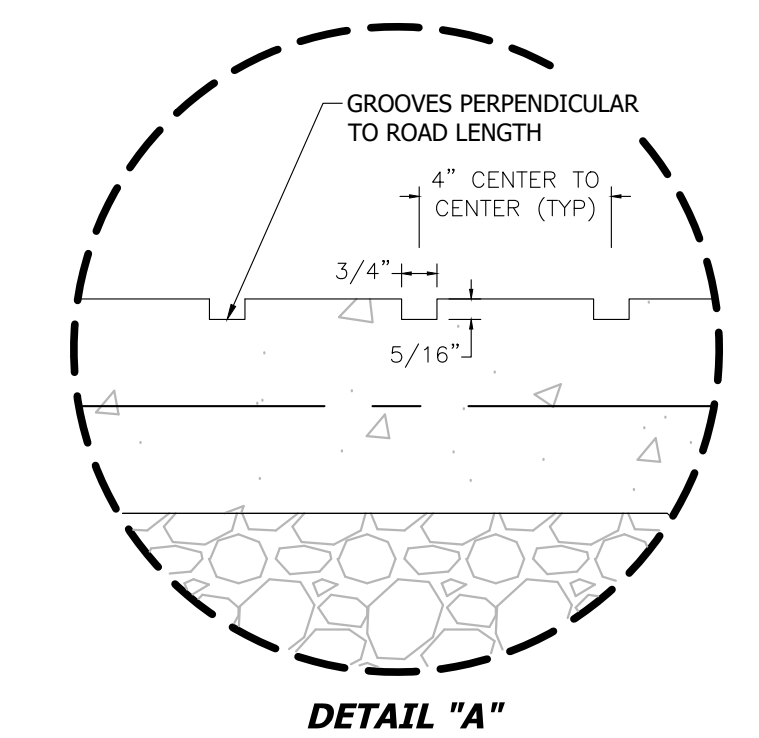
2 ACCESS ROAD PROFILE - STA. 12+00 TO 16+45



3 24'-WIDE ACCESS ROAD SECTION



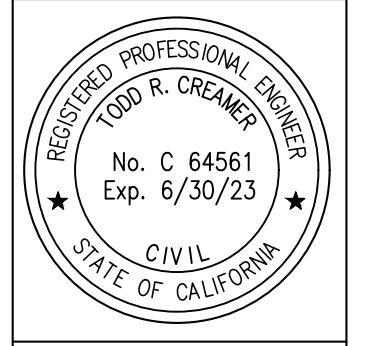
- NOTE:
1. TYPE OF CONCRETE: CLASS A
 2. MINIMUM 6" CLASS 2 AB, COMPACTED TO 95%.
 3. SEE LANDSCAPE PLAN FOR LOCATION OF SCORING AND EXPANSION JOINTS.
 4. DOWEL WITH #4 BARS, 12" LONG, AT 24" ON CENTERS, EMBEDDED 4" WITH EPOXY IN EDGE OF EXISTING CONCRETE.
 5. DOWELING & REINFORCING TO BE PROVIDED AT JOINTS.



4 VEHICULAR CONCRETE SECTION W/ GROOVES

REVISIONS	BY

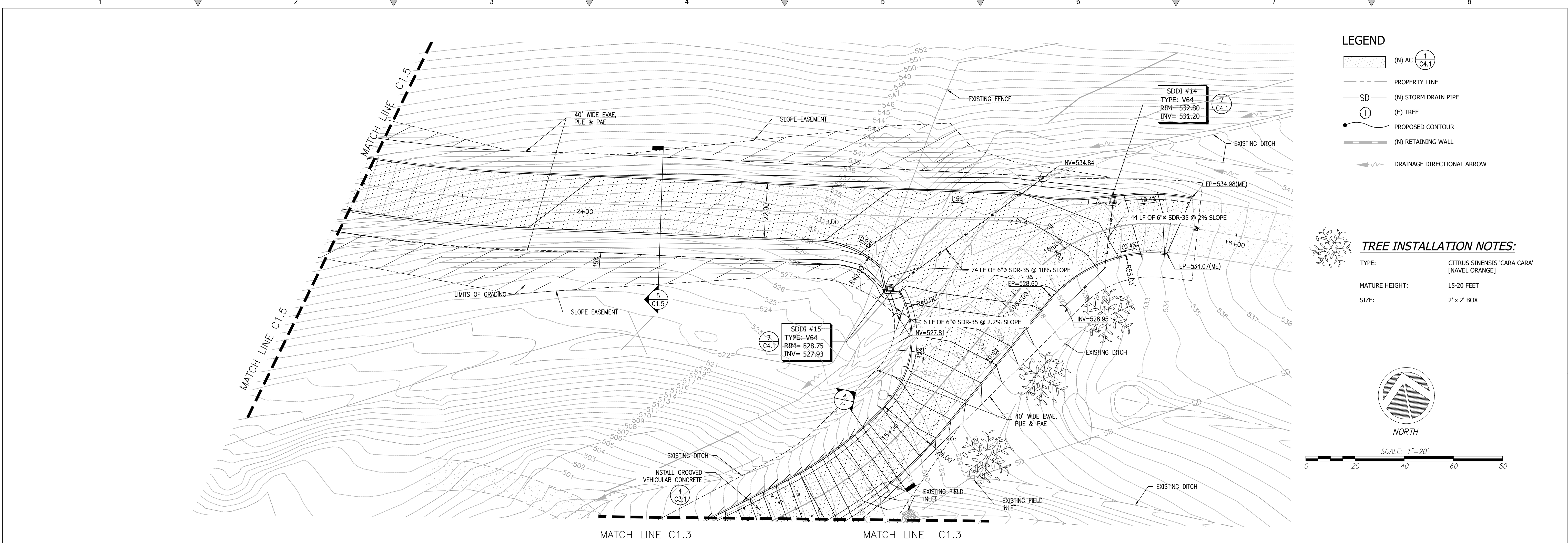
ACCESS ROAD PLAN & PROFILES



C2G CIVIL CONSULTANTS GROUP, INC.
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 Lic. No. 44000
 Exp. 6/30/23

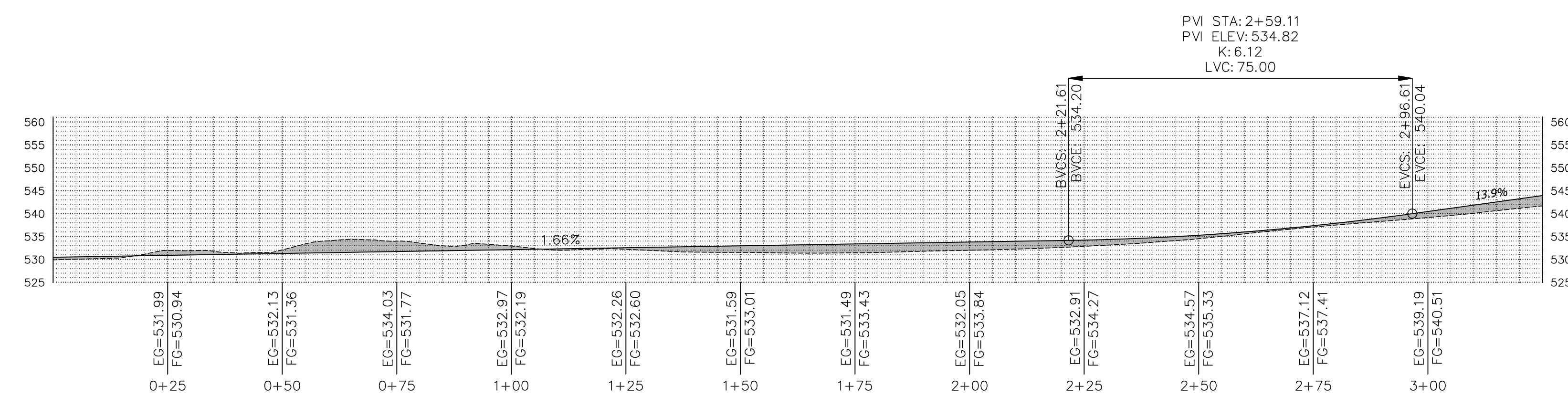
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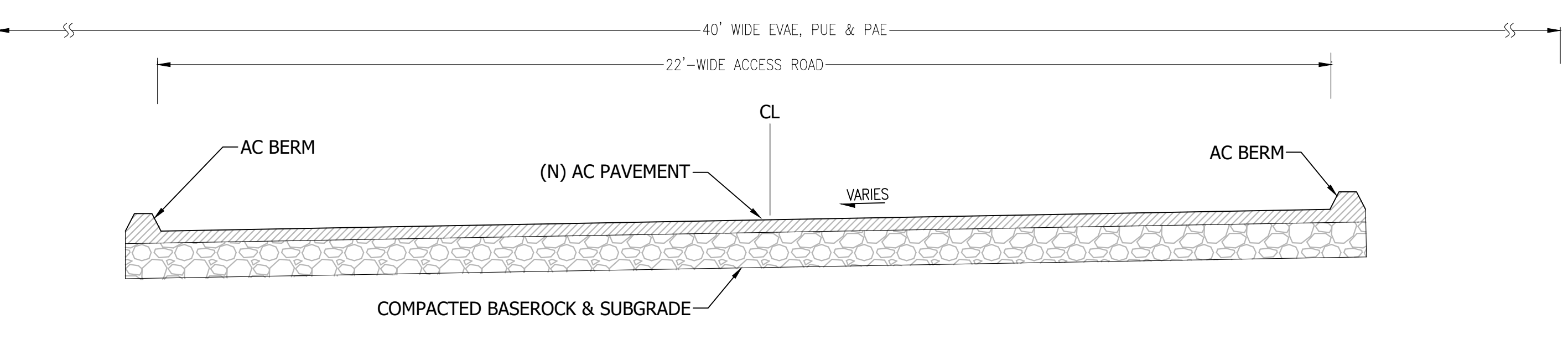
1 ENLARGED SITE PLAN - ACCESS ROAD

Scale: 1"=20'



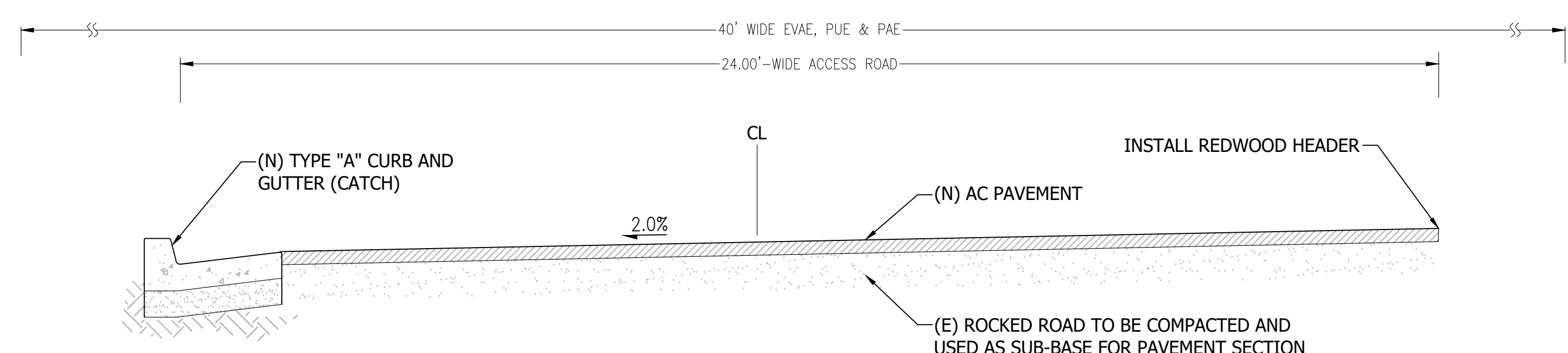
2 MAIN ROAD PROFILE - STA. 0+00 TO 3+25

Scale: 1:20



3 22'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

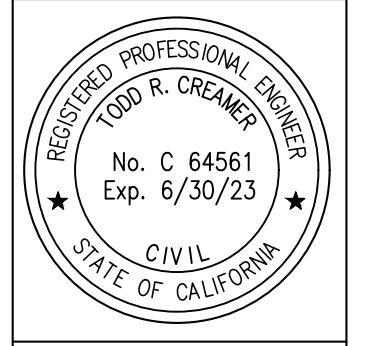


4 24'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

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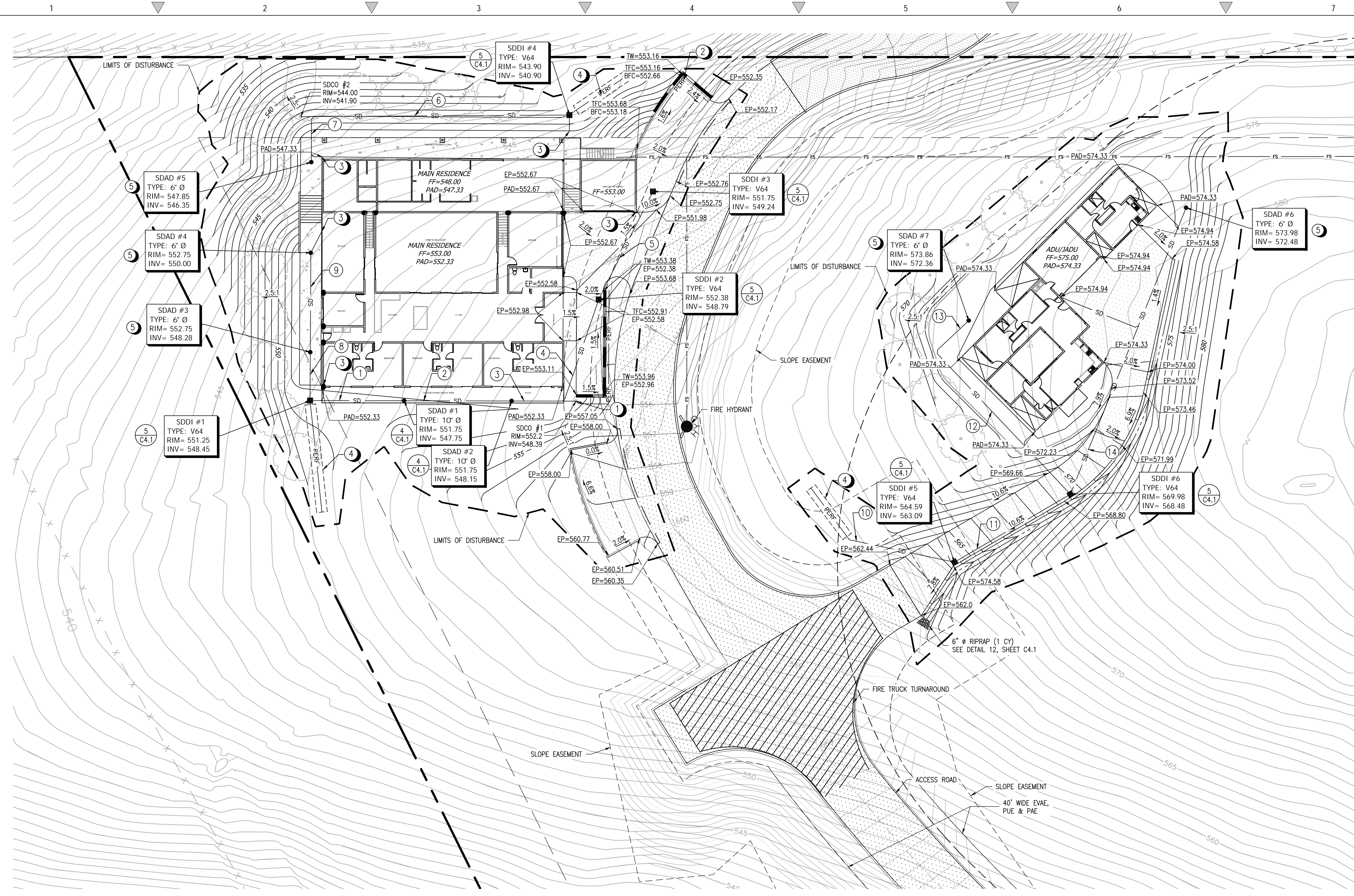
ENLARGED SITE PLAN



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GOKULAM, LLC.
 LOT B - DESIGN REVIEW
 2425 OLD CALAVERAS ROAD, MILPITAS
 APN: 029-34-004

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STORM DRAIN PIPE DATA

- 1 35 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 2 40 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 3 24 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 4 40 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 5 45 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 6 100 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 7 17 LF OF 6" HDPE PIPE @ 1.0% SLOPE
- 8 18 LF OF 6" HDPE PIPE @ 4.6% SLOPE
- 9 37 LF OF 6" HDPE PIPE @ 4.6% SLOPE
- 10 40 LF OF 6" HDPE PIPE @ 1.3% SLOPE
- 11 50 LF OF 6" HDPE PIPE @ 10.8% SLOPE
- 12 73 LF OF 6" HDPE PIPE @ 4.3% SLOPE
- 13 17 LF OF 6" HDPE PIPE @ 4.3% SLOPE
- 14 115 LF OF 6" HDPE PIPE @ 3.5% SLOPE

STORM DRAIN NOTES:

- 1 P.O.C. TO BACK-OF-WALL DRAINAGE
- 2 INSTALL WEEP HOLE CONNECTED TO BACK OF WALL DRAINAGE
- 3 P.O.C. TO DOWNSPOUT
- 4 DISPERSION TRENCH
- 5 6" X 6" SQUARE SLOTTED GRATE

GENERAL GRADING NOTES

1. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED TO A DEPTH TO BE DETERMINED BY THE SOILS ENGINEER. ANY (E) A.C. OR P.C.C. PAVING SHALL BE SCARIFIED & REMOVED & SUBGRADE PREPARED & COMPACTED AS SHOWN IN THESE PLANS.
2. ALL MATERIAL TO BE USED AS FILL WITHIN BUILDING PAD AREAS & PARKING OR DRIVEWAY AREAS TO BE FREE OF ALL VEGETATION & FOREIGN MATTER AND SHALL BE APPROVED BY THE SOILS ENGINEER.
3. ALL BUILDING PADS TO BE COMPACTED TO 95% RELATIVE COMPACTION; DRIVEWAY & STREET AREAS TO BE COMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557-91.
4. BUILDING PADS TO BE LEVEL SIDE-TO-SIDE, FRONT-TO-REAR, UNLESS OTHERWISE SHOWN.
5. STRIPPINGS MAY BE PLACED IN PLANTING AREAS; ALL EXCESS STRIPPING SHALL BE HAULED OFF. PAVING DEBRIS SHALL BE HAULED OFF TO AN APPROVED DISPOSAL SITE.
6. ALL WORK SHOWN OR NOTED IN THESE PLANS SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS ENGINEER, ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS AND THE LATEST ADDITION OF THE UNIFORM BUILDING CODE.

ABBREVIATIONS

- AB AGGREGATE BASE
- AC ASPHALT CONCRETE
- BLD BUILDING
- BS BOTTOM OF STAIR
- BW BACK OF WALK
- CONC CONCRETE
- DWY DRIVEWAY
- EC EDGE OF CONCRETE
- EP EDGE OF PAVEMENT
- EL ELEVATION
- FF FINISH FLOOR
- FL FLOWLINE
- GP GROUND
- HP HIGH POINT
- INV INVERT ELEVATION
- LP LOW POINT
- NG NATURAL GROUND
- P.O.T. PATH OF TRAVEL
- PL PROPERTY LINE
- PVR PERVIOUS PAVEMENT
- SD STORM DRAIN AREA
- SDAD STORM DRAIN AREA DRAIN
- SDDI STORM DRAIN DROP
- SDDI INLET
- SDMH STORM DRAIN MANHOLE
- T/ TOP OF ...
- TG TOP OF GRATE
- TS TOP OF STAIR
- TW TOP OF WALL
- UG UNDERGROUND
- W/ WITH

NEW IMPERVIOUS AREAS

DESCRIPTION	MAIN RESIDENCE (SF)	ADU/JADU (SF)
BUILDING & GARAGE	8416	2683
ASPHALT DRIVEWAY	1240	2915
ASPHALT PARKING STALLS	1333	0
CONCRETE WALKWAYS	1627	0
TOTAL (N) IMPERVIOUS AREA	12616	5598
EXISTING IMPERVIOUS AREA TBR	0	0
NET INCREASE OF IMPERVIOUS AREA	12616	5598
% OF ENTIRE LOT	0.37%	0.16%

PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

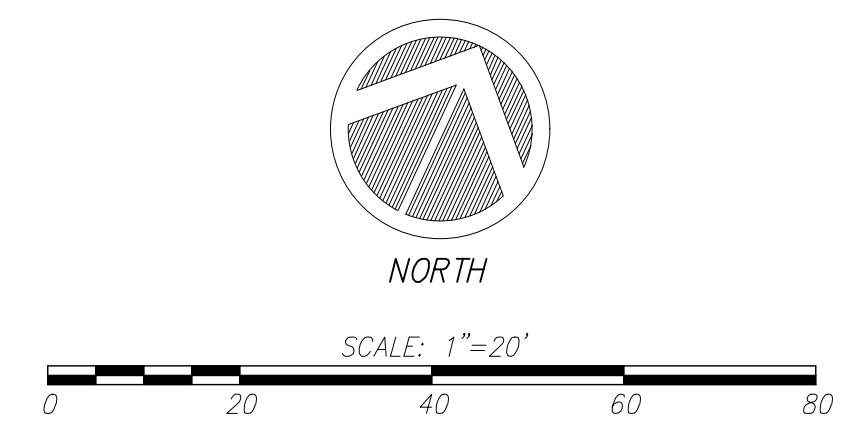
DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
ADU / JADU	336	81	255(C)	4.0	2.4
ADU / JADU DWY	789	7	782(C)	7.0	.8
MAIN RESIDENCE	635	1490	855(F)	5.8	7.6
MAIN RESIDENCE DWY	27	0	27(C)	1.4	0
TOTAL	1787	1578	209(C)		

NET VOLUME = 209 CU. YDS. OF CUT

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

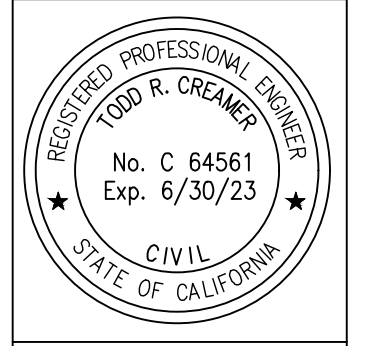
LEGEND

- STORM DRAIN AREA DRAIN
- STORM DRAIN DROP INLET
- ⊥ POINT OF CONNECTION
- STORM DRAIN CLEAN OUT



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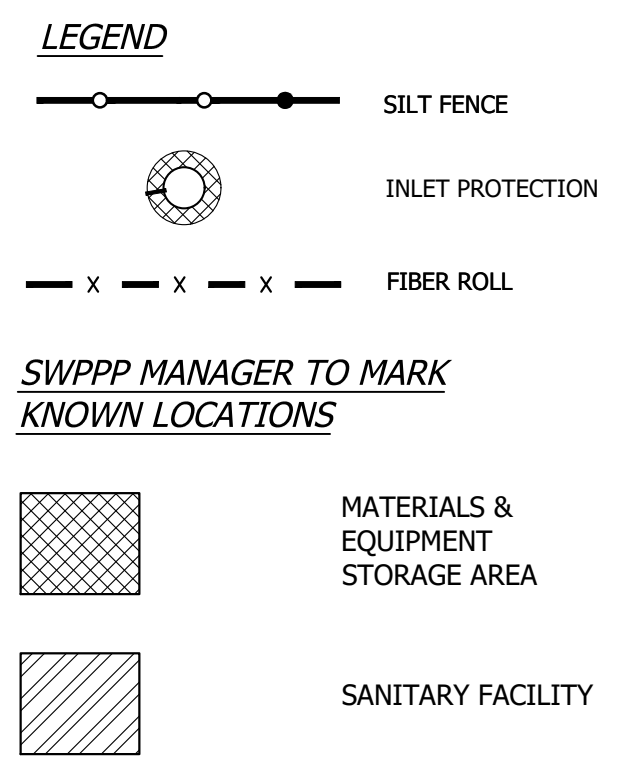
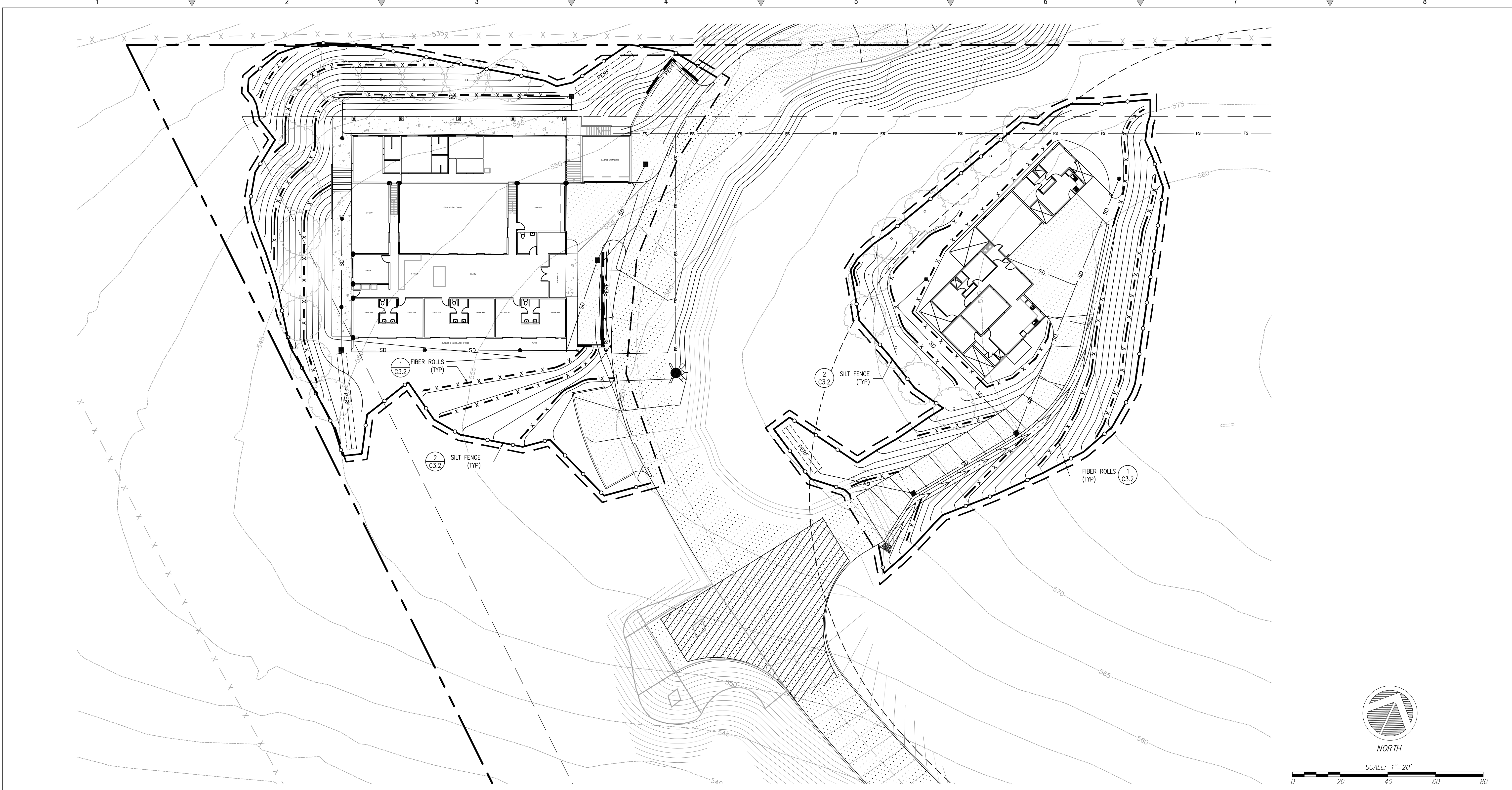
GRADING AND DRAINAGE



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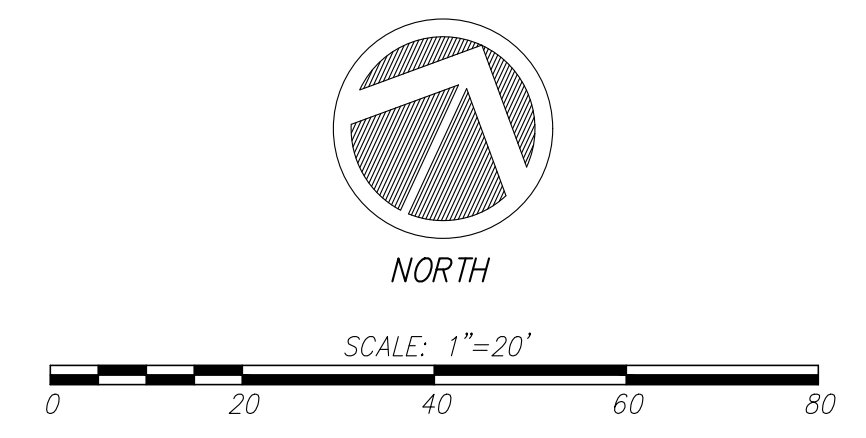
EROSION CONTROL BMP'S

- ALL CONSTRUCTION SITES**
 DELINEATE CLEARING LIMITS, SENSITIVE OR CRITICAL AREAS, TREES, DRAINAGE COURSES, AND BUFFER ZONES TO PREVENT EXCESSIVE OR UNNECESSARY DISTURBANCE AND EXPOSURE OF SOIL.
- IDENTIFY ALL STORM DRAINS, DRAINAGE SWALES AND CREEKS LOCATED NEAR THE CONSTRUCTION SITE AND MAKE SURE ALL SUBCONTRACTORS ARE AWARE OF THEIR LOCATIONS TO PREVENT POLLUTANTS FROM ENTERING THEM.
 - PRESERVE EXISTING VEGETATION, WHERE REQUIRED AND WHEN FEASIBLE, TO THE MAXIMUM EXTENT PRACTICABLE.
 - PHASE GRADING OPERATIONS, TO THE EXTENT POSSIBLE, TO LIMIT AREAS OF DISTURBANCE AND TIME OF EXPOSURE.
 - AVOID AND/OR MINIMIZE IMPACTS OF EXCAVATION AND GRADING DURING WET WEATHER AND IMMEDIATELY PRECEDING EXPECTED WET WEATHER.
 - MINIMIZE CUTS AND FILLS.
 - IMPLEMENT MEASURES TO MINIMIZE EROSION, MANAGE STORM WATER RUNOFF, AND PREVENT POLLUTANTS FROM CONSTRUCTION ACTIVITIES FROM ENTERING STORM DRAINS.
 - ALIGN TEMPORARY AND PERMANENT ROADS AND DRIVEWAYS ALONG SLOPE CONTOURS.
 - WASH VEHICLES AT AN APPROPRIATE OFF-SITE FACILITY. IF EQUIPMENT MUST BE WASHED ON-SITE, USE WASH DOWN AREAS DEVELOPED FOR SPECIFIC SITE REQUIREMENTS AND APPROVED BY THE CITY REPRESENTATIVE. DO NOT USE SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT, AND PREVENT WASH WATER FROM ENTERING STORM DRAINS.
- MINIMIZE SOIL MOVEMENT**
- STOCKPILED SOIL AND MATERIALS SHOULD BE COVERED AND STABILIZED WITH TARPS, GEOTEXTILE FABRIC, HYDROSEEDING AND/OR EROSION CONTROL BLANKETS.
 - CREATE A BERM AND/OR INSTALL SILT FENCING AROUND STOCKPILED MATERIALS TO PREVENT STORM WATER RUNOFF FROM TRANSPORTING SEDIMENT OFFSITE.
 - USE STANDARD EROSION CONTROL SEEDING, PLANTING, MULCHING, GEOTEXTILE FABRIC AND/OR EROSION CONTROL BLANKETS TO STABILIZE DISTURBED SOIL AND REDUCE THE POTENTIAL FOR EROSION.
 - USE OTHER SOIL STABILIZERS AS APPROVED BY THE CITY OF CAPITOLA.
- STRUCTURES TO CONTROL AND CONVEY RUNOFF**
- CONVEY RUNOFF BY USE OF EARTH DIKES, DRAINAGE SWALES AND/OR DITCHES WHEN FEASIBLE.
 - USE SLOPE DRAINS TO COLLECT AND CONVEY WATER FOR DISCHARGE BELOW SLOPES WHEN FEASIBLE.
 - USE VELOCITY DISSIPATION DEVICES, FLARED CULVERT END SECTIONS AND/OR CHECK DAMS TO REDUCE RUNOFF VELOCITY AND MITIGATE EROSION WHEN FEASIBLE.

- CAPTURE SEDIMENT**
- USE TERRACING, RIPRAP, SAND BAGS, ROCKS, APPROVED TEMPORARY VEGETATION AND/OR OTHER APPROVED BMP'S ON SLOPES TO REDUCE RUNOFF VELOCITY AND TRAP SEDIMENTS. DO NOT USE ASPHALT RUBBLE OR OTHER DEMOLITION DEBRIS FOR THIS PURPOSE.
 - PROTECT STORM DRAIN INLETS FROM SEDIMENT-LADEN RUNOFF. STORM DRAIN INLET PROTECTION DEVICES INCLUDE GRAVEL BAGS, FILTER FABRIC FENCES AND BLOCK AND GRAVEL FILTERS.
- OTHER RUNOFF CONTROLS**
- TEMPORARY SEDIMENT BASIN
 - SEDIMENT TRAP
 - BRUSH OR ROCK FILTER
 - SILT FENCE
 - SAND OR GRAVEL BAG BARRIER
- TRACKING CONTROL**
- IMPLEMENT MEASURES AS NECESSARY TO MINIMIZE TRACKING OF SOIL OFF SITE
 - USE DRY SWEEPING METHODS WHEN CLEANING SEDIMENTS FROM STREETS, DRIVEWAYS AND PAVED AREAS BY HAND. WHEN USING MECHANICAL STREET SWEEPERS, USE FINE WATER SPRAY TO REDUCE DUST AND IMPROVE SEDIMENT REMOVAL WHILE MINIMIZING RUNOFF.
- PAINT WORK**
- DO NOT CLEAN PAINT BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR CREEK.
 - FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND RINSE TO A DRAIN LEADING TO THE SANITARY SEWER (I.E., INDOOR PLUMBING).
 - FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND FILTER AND REUSE THINNERS AND SOLVENTS. DISPOSE OF UNUSABLE THINNERS, OIL-BASED PAINT, SLUDGES AND RESIDUE AS HAZARDOUS WASTE.
 - NON-HAZARDOUS PAINT CHIPS AND DUST FROM DRY STRIPPING AND SAND BLASTING MAY BE SWEEP UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH. CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD OR TRIBUTYL TIN MUST BE DISPOSED OF AS A HAZARDOUS WASTE.
 - WHEN STRIPPING OR CLEANING BUILDING EXTERIORS WITH HIGH-PRESSURE WATER, COVER OR BERM STORM DRAIN INLETS. COLLECT (WOP OR VACUUM) BUILDING CLEANING WATER FOR DISPOSAL IN A PRE-AUTHORIZED MANNER.
 - RECYCLE, RETURN TO SUPPLIER OR DONATE UNWANTED WATER-BASED (LATEX) PAINT.
 - DRIED LATEX PAINT MAY BE DISPOSED OF IN THE TRASH.

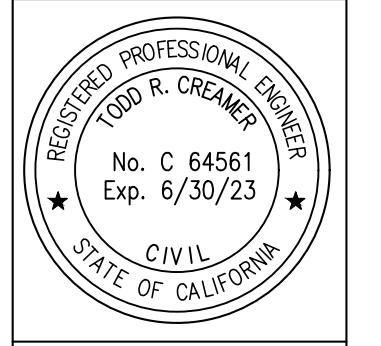
- CEMENT AND CONCRETE WORK**
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT MORTAR ON-SITE.
 - STORE DRY AND WET CONCRETE AND CEMENT UNDER COVER, PROTECTED FROM RAINFALL AND RUNOFF.
 - WASH OUT CONCRETE TRANSIT MIXERS ONLY IN DESIGNATED WASH-OUT AREAS. WHENEVER POSSIBLE, RECYCLE WASHOUT BY PUMPING BACK INTO MIXERS FOR REUSE. DO NOT DISPOSE OF WASHOUT INTO THE STREET, STORM DRAINS, DRAINAGE DITCHES, OR CREEKS. DESIGNATED WASH-OUT AREAS MUST BE MAINTAINED TO PREVENT OVER FLOW.
 - WHENEVER POSSIBLE, RETURN CONTENTS OF MIXER BARREL TO THE OFF-SITE YARD FOR RECYCLING. DISPOSE OF SMALL AMOUNTS OF EXCESS CONCRETE, GROUT, AND MORTAR IN THE TRASH.
- ROADWORK/PAVEMENT**
- APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORMWATER RUNOFF.
 - COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, AND SIMILAR MATERIALS.
 - ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, SINCE THEY TEND TO DRIP CONTINUOUSLY.
 - WHEN MAKING SAW-CUTS IN PAVEMENT, USE AS LITTLE WATER AS POSSIBLE. COVER POTENTIALLY AFFECTED STORM DRAIN INLETS COMPLETELY WITH FILTER FABRIC DURING THE SAWING OPERATION AND CONTACT THE SLURRY BY WET-VACUUMING, OR BY PLACING STRAW BALES, SANDBAGS, OR GRAVEL DAMS AROUND THE CATCH BASINS. AFTER THE LIQUID DRAINS OR EVAPORATES, SHOVEL OR VACUUM THE SLURRY RESIDUE FROM THE PAVEMENT OR GUTTER AND REMOVE FROM SITE.
 - WASH DOWN EXPOSED AGGREGATE CONCRETE ONLY WHEN THE WASH WATER CAN: (1) FLOW ONTO A DIRT AREA, (2) DRAIN ONTO A BERMED SURFACE FROM WHICH IT CAN BE PUMPED AND DISPOSED OF PROPERLY, OR (3) BE VACUUMED FROM THE AREA ALONG THE CURB WHERE SEDIMENT HAS ACCUMULATED BY BLOCKING A STORM DRAIN INLET.
 - ALLOW AGGREGATE RINSE TO SETTLE, AND PUMP THE WATER TO THE SANITARY SEWER IF ALLOWED BY YOUR LOCAL WASTEWATER AUTHORITY.
 - DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO A STREET OR STORM DRAIN. COLLECT AND RETURN TO AGGREGATE BASE STOCKPILE, OR DISPOSE WITH TRASH.
 - RECYCLE BROKEN CONCRETE AND ASPHALT.
- HAZARDOUS MATERIAL SPILL PREVENTION, SPILL REPORTING AND RESPONSE**
- ALL HAZARDOUS MATERIALS SHALL BE STORED SO THAT THEY ARE PROTECTED FROM INCLEMENT WEATHER AND VANDALISM.
 - MOTOR VEHICLES SHALL NOT BE FUELED ON THE PROJECT SITE.

- SPILL CONTAINMENT MEASURES MUST BE MADE PRIOR TO FUELING WHEN FUELING EQUIPMENT OTHER THAN MOTOR VEHICLES.
 - VEHICLE MAINTENANCE, OTHER THAN EMERGENCY REPAIRS, SHALL NOT BE PERFORMED ON THE PROJECT SITE.
 - APPROPRIATE EMERGENCY SPILL CONTAINMENT SUPPLIES SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
 - SPILLS GREATER THAN ONE QUART SHALL BE IMMEDIATELY REPORTED TO THE CITY'S REPRESENTATIVE AND COUNTY INSPECTOR.
 - SPILLS SHALL BE DIKED OR CONTAINED BY TRAINED PERSONNEL TO PREVENT THE SPILLED HAZARDOUS MATERIAL FROM ENTERING THE STORM WATER SYSTEM OR LEAVING THE PROJECT SITE.
 - SPILLS OF LESS THAN FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL ALL CONTAMINATED MATERIALS SHALL BE CONTAINERIZED, REMOVED FROM THE JOBSITE AND DISPOSED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
 - SPILLS IN EXCESS OF FIVE (5) GALLONS SHALL BE ABSORBED USING AN APPROPRIATE MATERIAL AND PLACED IN CONTAINERS UNDER THE DIRECTION OF THE COUNTY OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY.
 - ANY CONTAMINATED SOIL SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH ACCEPTABLE FRESH SOIL.
 - RESPONSE SHALL BE CARRIED OUT BY APPROPRIATELY TRAINED PERSONNEL UTILIZING SAFE PRACTICES.
- GOOD HOUSEKEEPING PRACTICES**
- DO NOT WASH DOWN PAVEMENT OR SURFACES WHERE SILT HAS BEEN DEPOSITED OR MATERIALS HAVE SPILLED. USE DRY CLEANUP METHODS.
 - AVOID CONTAMINATING CLEAN RUNOFF FROM AREAS ADJACENT TO YOUR SITE BY USING BERMS AND/OR TEMPORARY OR PERMANENT DRAINAGE DITCHES TO DIVERT WATER FLOW AROUND THE SITE.
 - COVER EXPOSED PILES OF SOIL, CONSTRUCTION MATERIALS AND WASTES WITH PLASTIC SHEETING OR TEMPORARY ROOFS. BEFORE IT RAINS, SWEEP AND REMOVE MATERIALS FROM SURFACES THAT DRAIN TO STORM DRAINS, CREEKS, OR CHANNELS.
 - PLACE TRASH CANS AROUND THE SITE TO REDUCE POTENTIAL LITTER. DISPOSE OF NON-HAZARDOUS CONSTRUCTION WASTES IN COVERED DUMPSTERS OR RECYCLING RECEPTACLES. RECYCLE LEFTOVER MATERIALS WHENEVER POSSIBLE.
 - DISPOSE OF ALL WASTES PROPERLY. MATERIALS THAT CAN NOT BE REUSED OR RECYCLED MUST BE TAKEN TO AN APPROPRIATE LANDFILL OR DISPOSED OF AS HAZARDOUS WASTE, AS APPROPRIATE.
 - COVER OPEN DUMPSTERS WITH PLASTIC SHEETING OR A TARP DURING RAINY WEATHER. SECURE THE SHEETING OR TARP AROUND THE OUTSIDE OF THE DUMPSTER. IF THE DUMPSTER HAS A COVER, CLOSE IT.
 - TRAIN YOUR EMPLOYEES AND INFORM CONTRACTORS AND SUBCONTRACTORS ABOUT STORM WATER MANAGEMENT REQUIREMENTS AND THEIR RESPONSIBILITIES FOR COMPLIANCE.



REVISIONS	BY

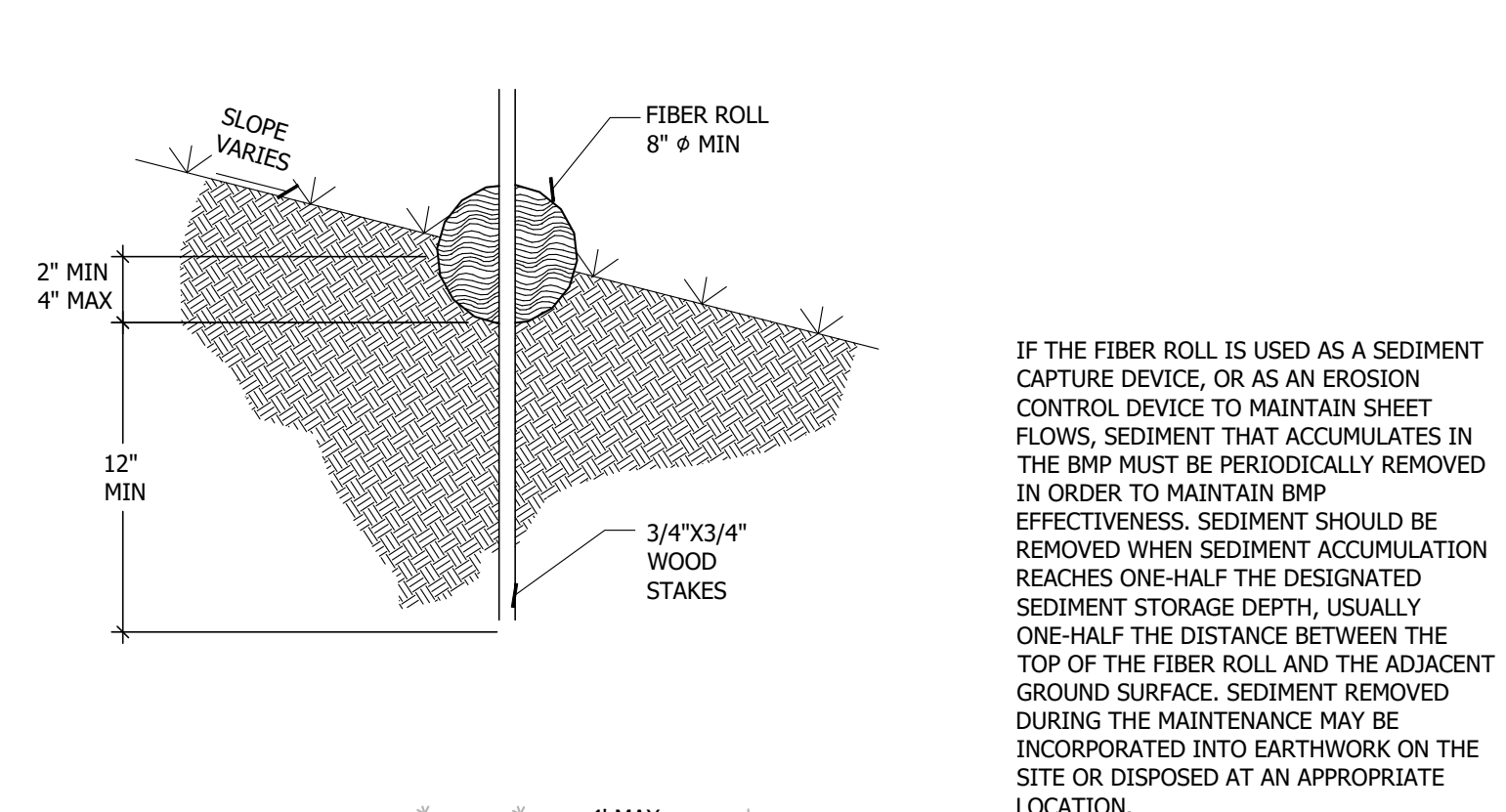
EROSION CONTROL PLAN



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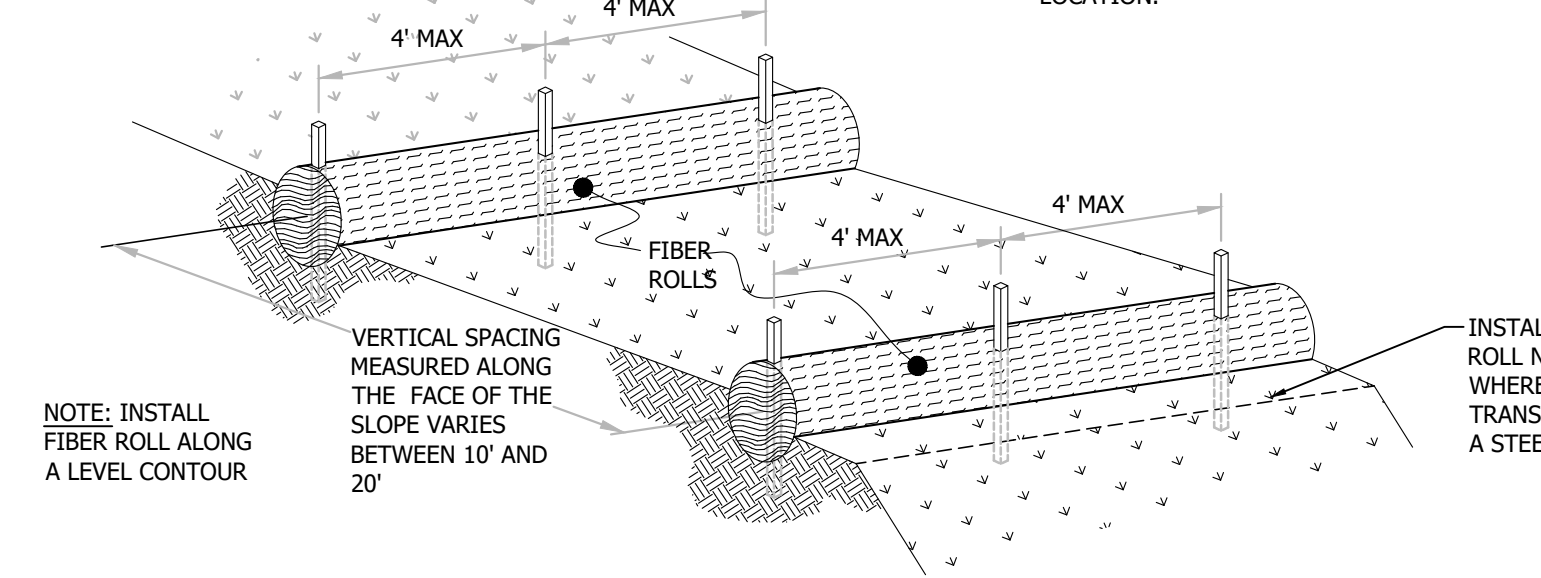
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CONSTRUCTION SPECIFICATIONS

LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:

- SLOPE INCLINATION OF 4:1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20 FT.
- SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V) FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
- SLOPE INCLINATION OF 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
- TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
- DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.
- USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.
- IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.



1 FIBER ROLLS

Scale: NTS

- NOTE:**
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - REMOVED SEDIMENT SHALL BE DEPOSITED AT AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE REPLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18". THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.

IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. TURN THE ENDS OF THE FENCE UPHILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.

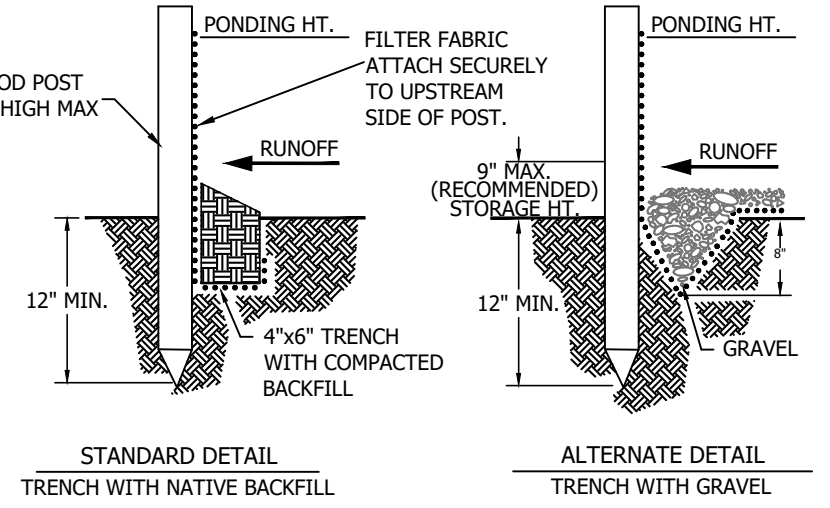
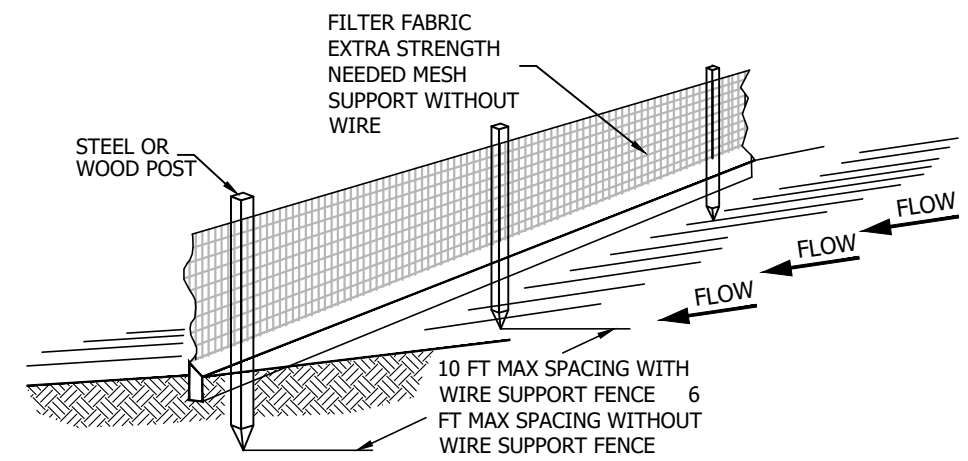
SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED, AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

INSPECTION AND MAINTENANCE

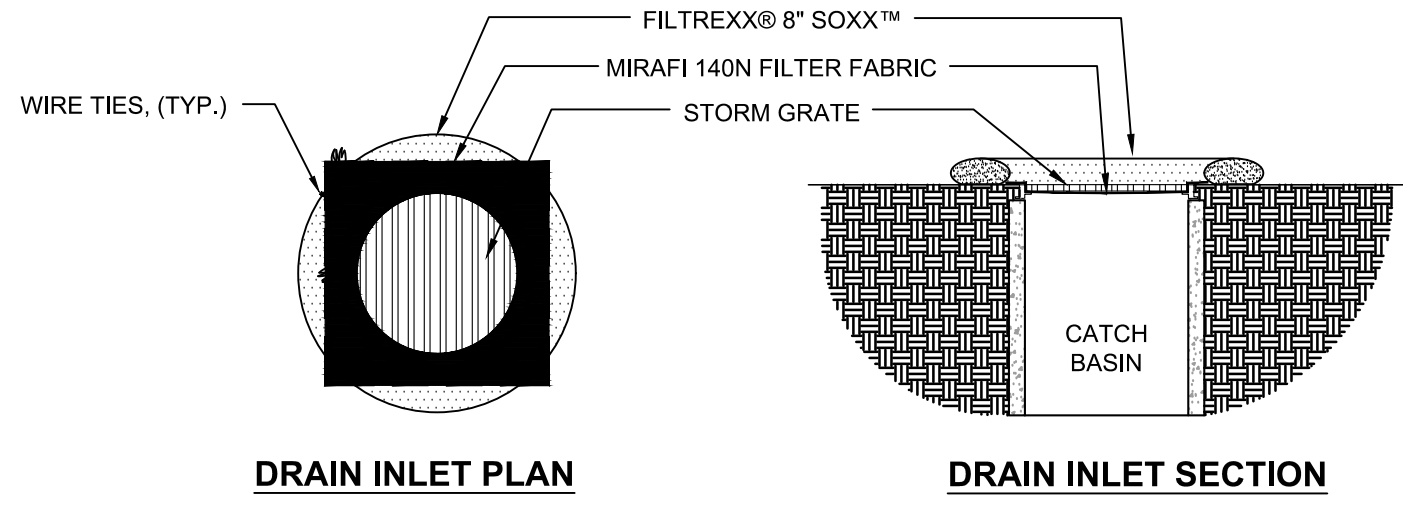
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HR.). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.

THE REMOVED SEDIMENT SHALL VEGETATE OR OTHERWISE STABILIZED.



2 SILT FENCE

Scale: NTS



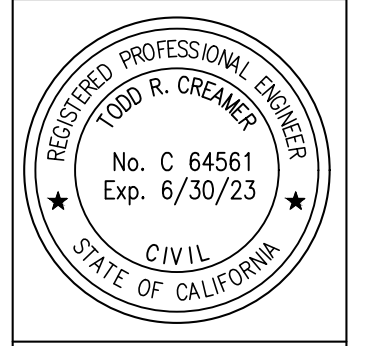
- NOTES:**
- ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
 - FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
 - CONTRACTOR SHALL EXTEND MIRAFI 140N FABRIC 6" BEYOND CATCH BASIN AFTER PLACEMENT OF GRATE.
 - CONTRACTOR SHALL REMOVE ALL FILTER FABRIC FROM ALL STORM DRAIN INLETS UPON COMPLETION OF PROJECT

3 FILTREX® INLET PROTECTION

Scale: NTS

REVISIONS	BY

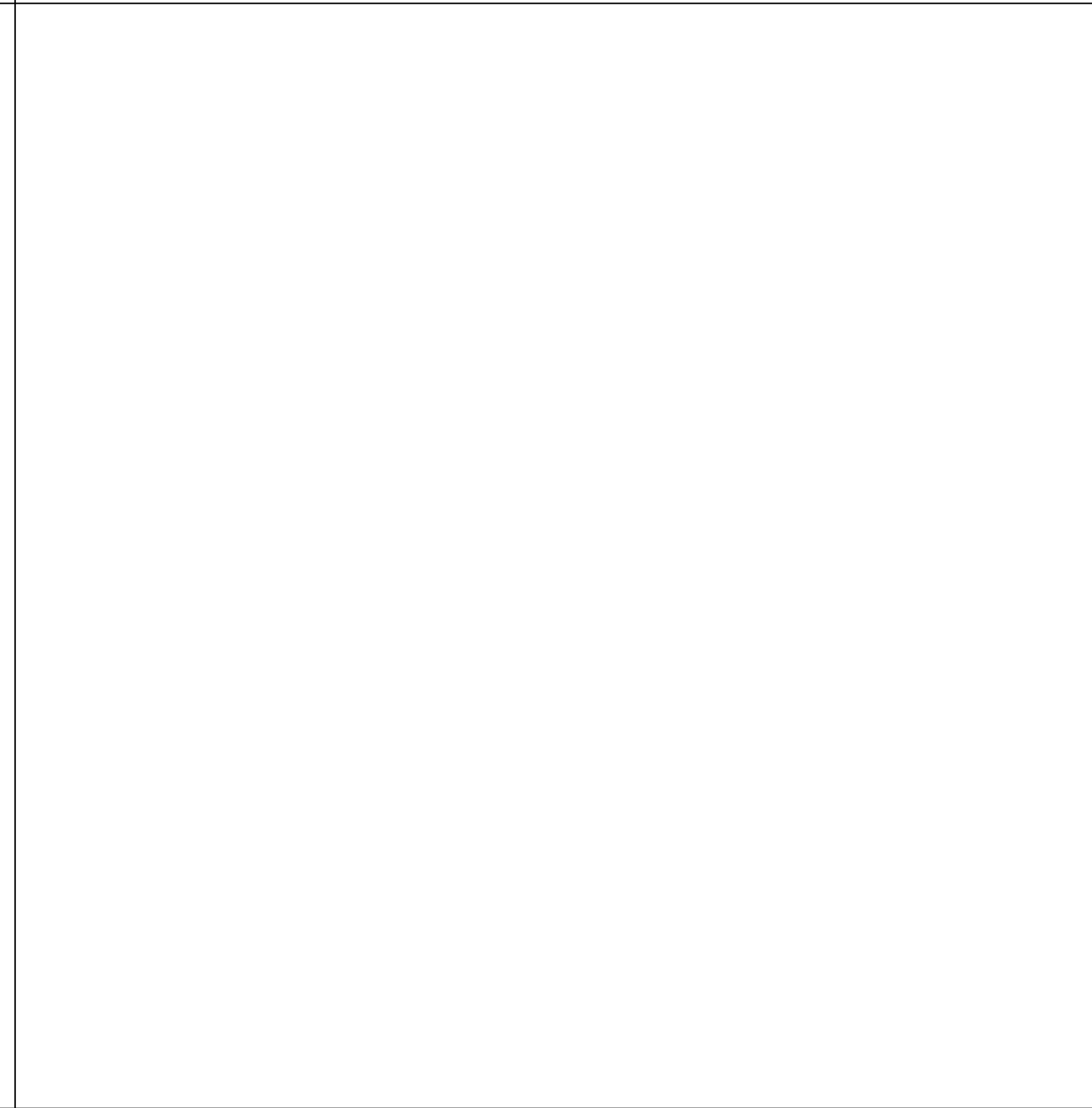
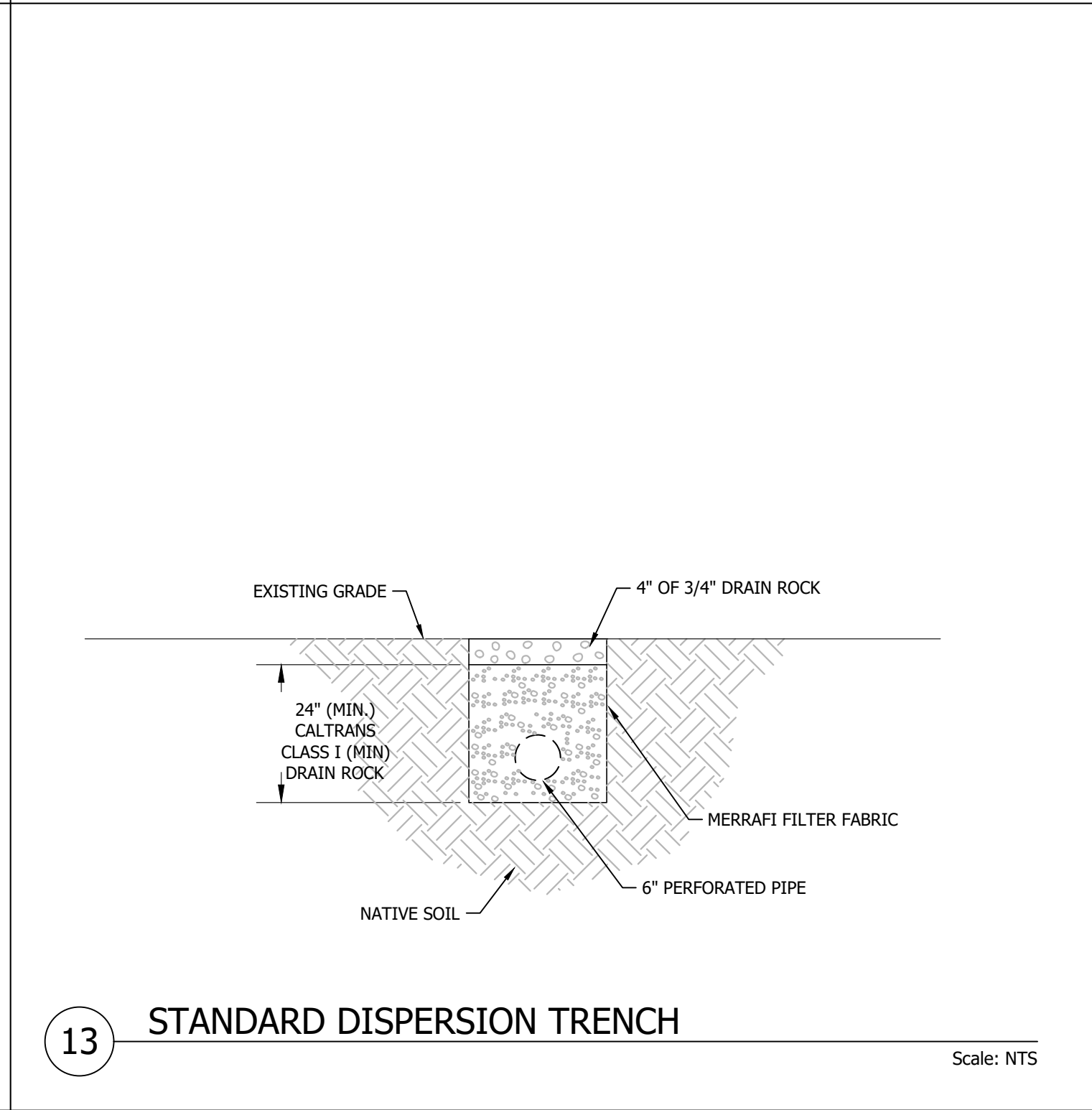
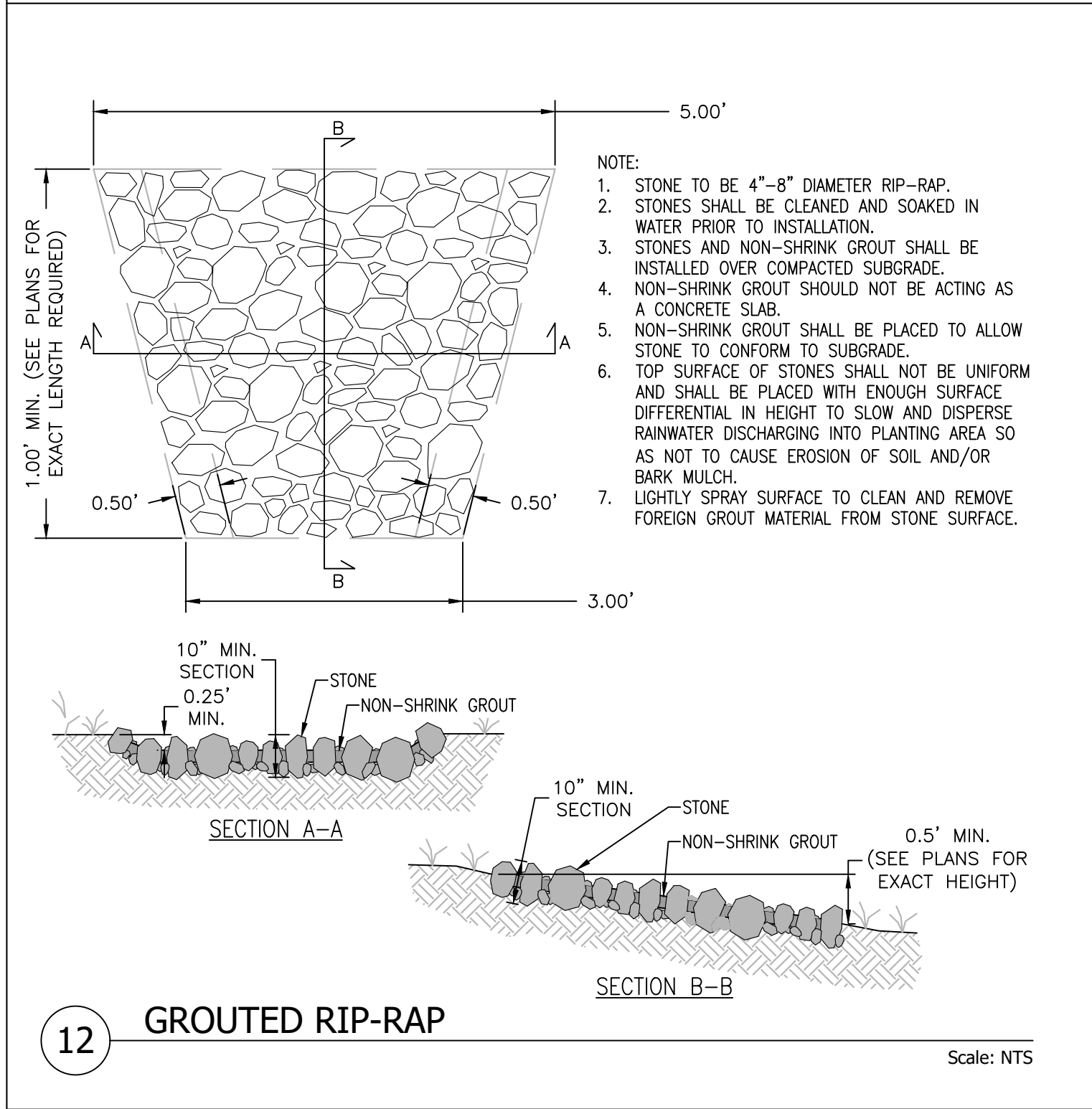
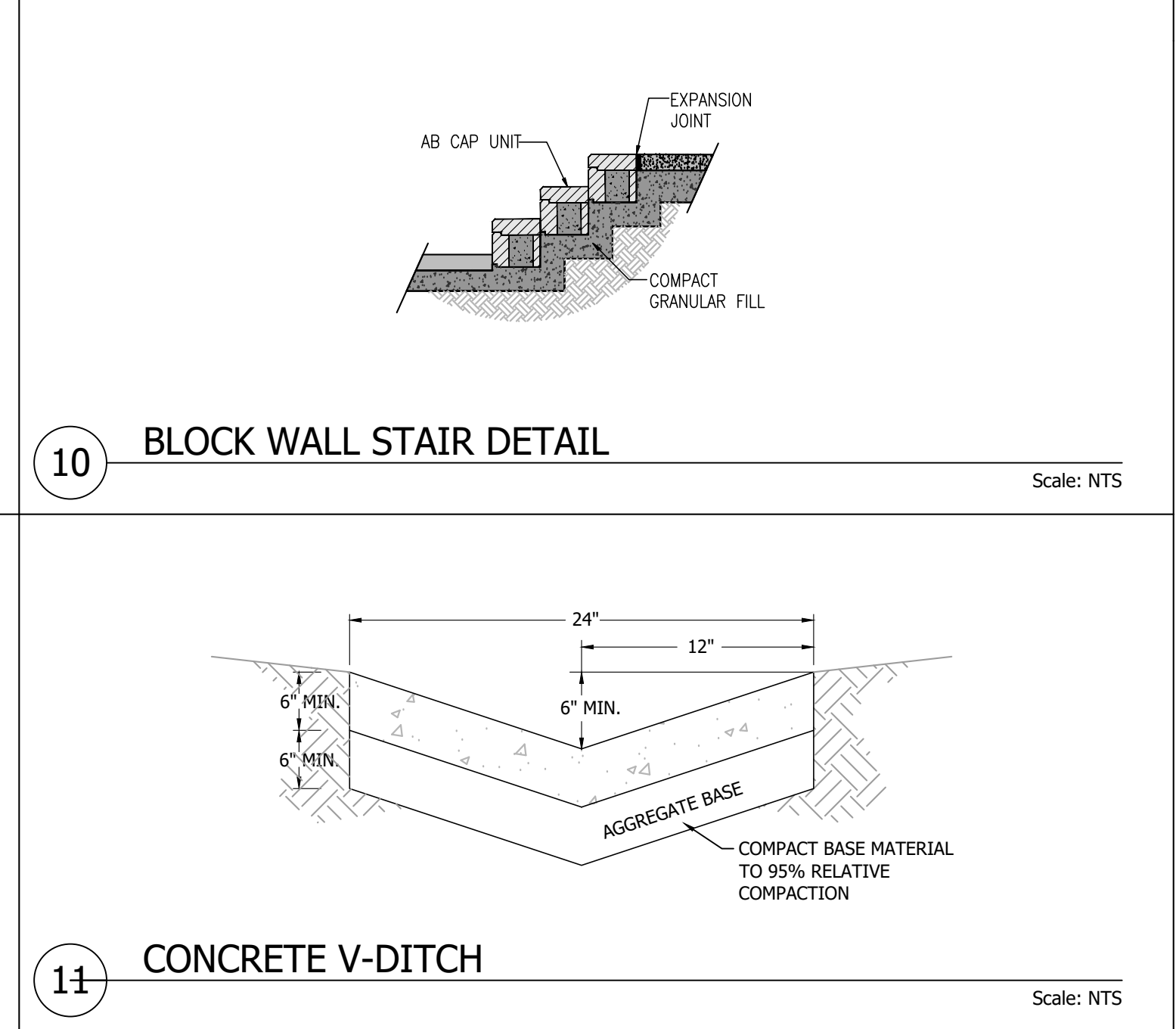
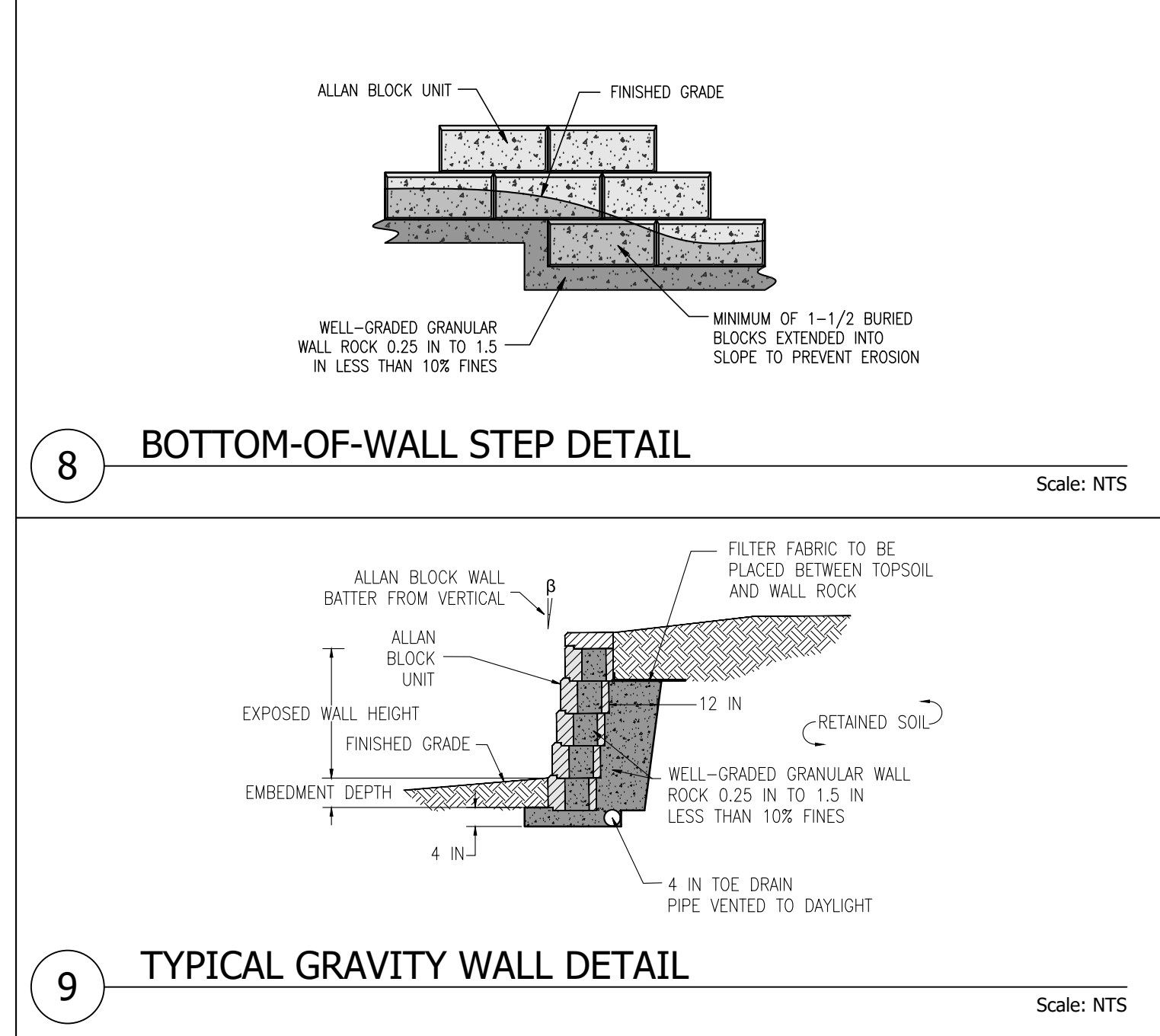
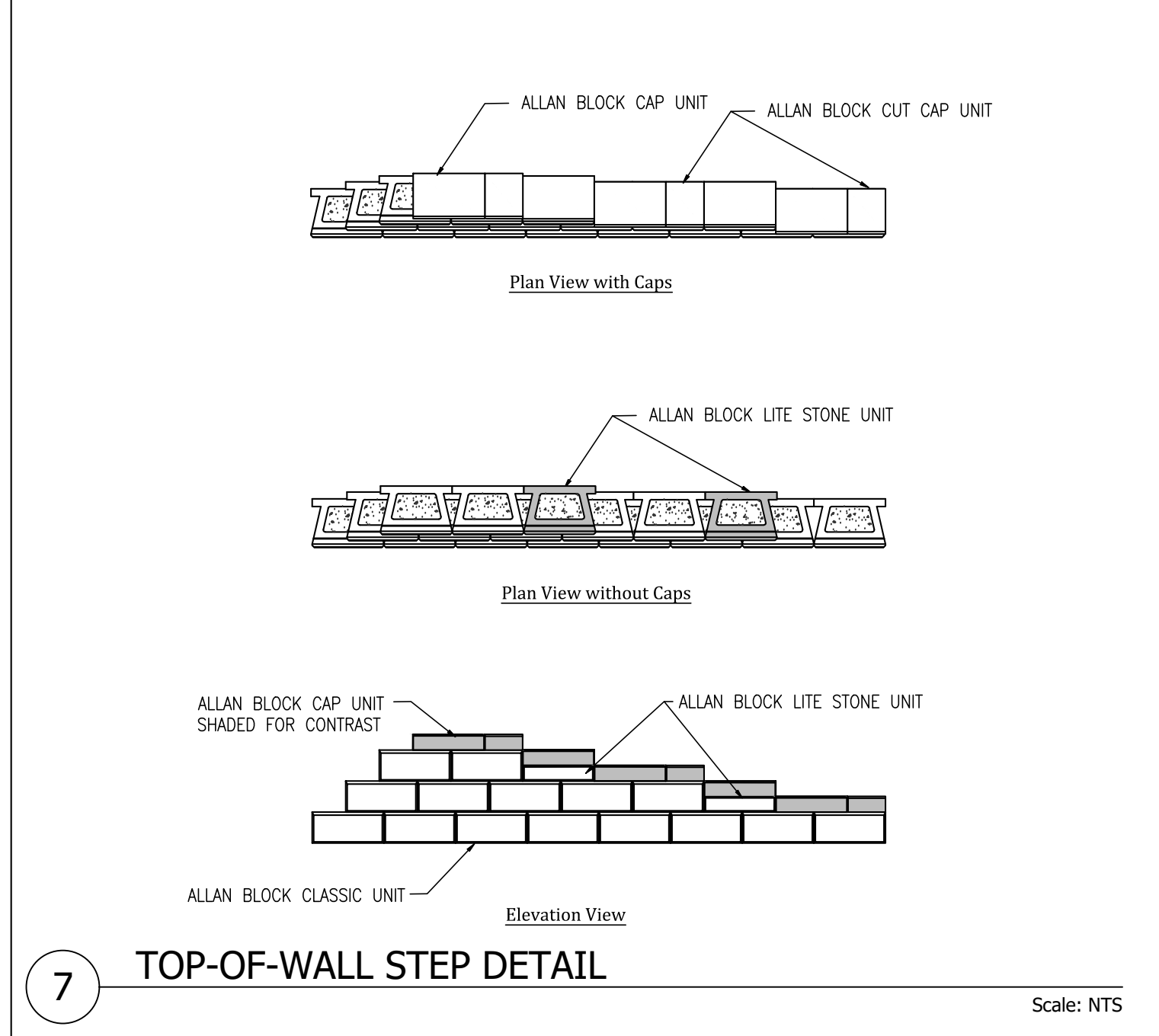
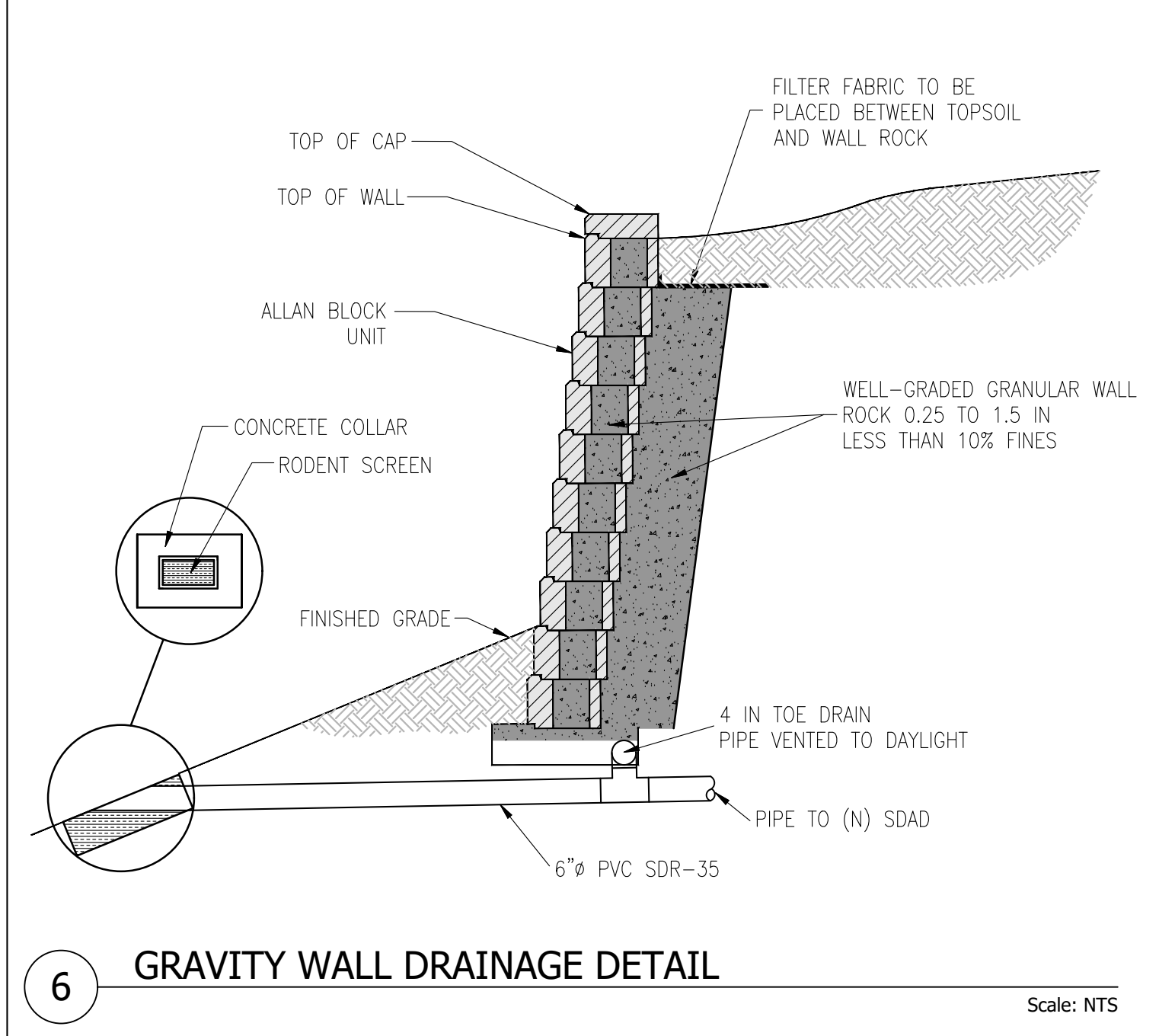
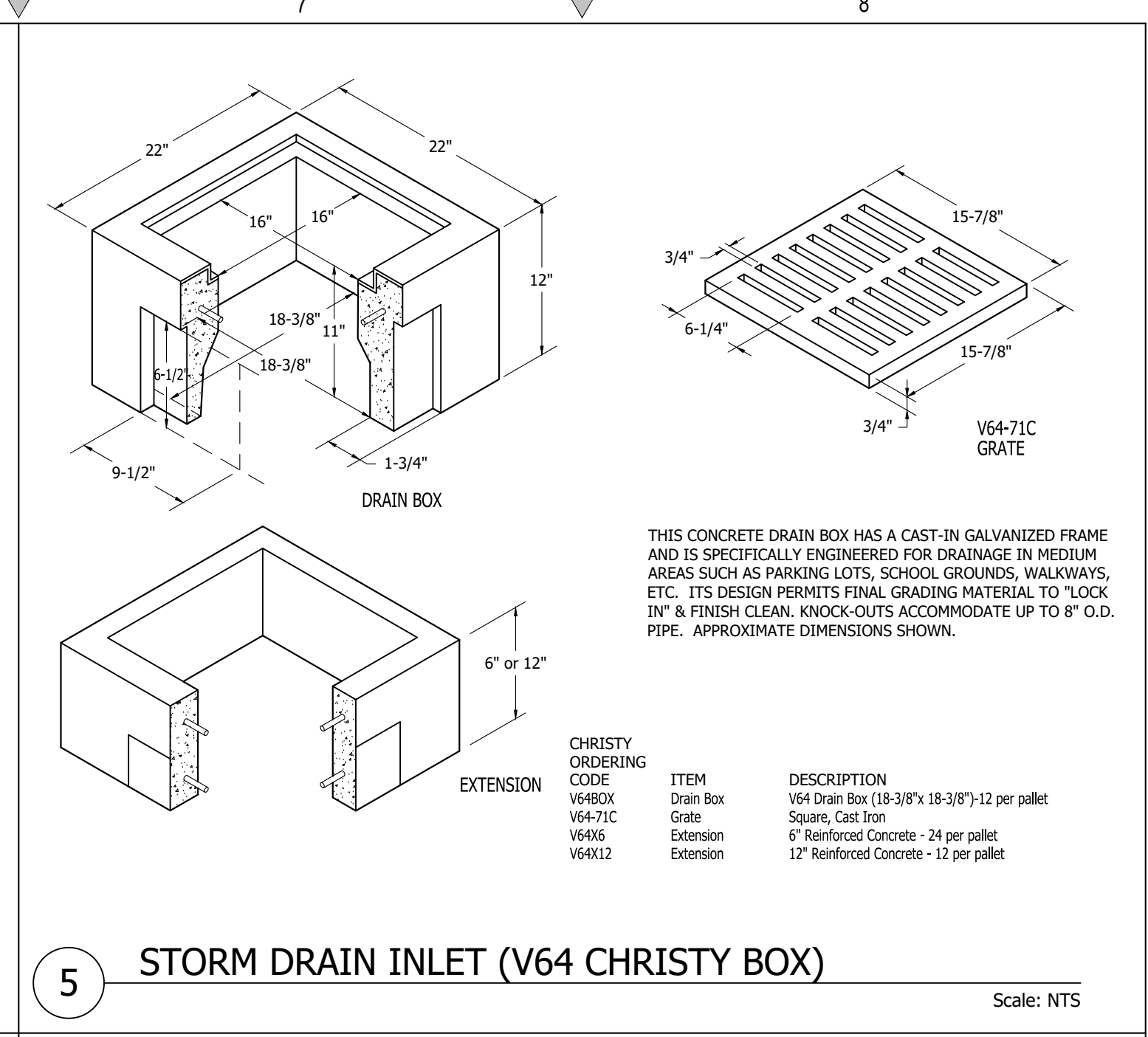
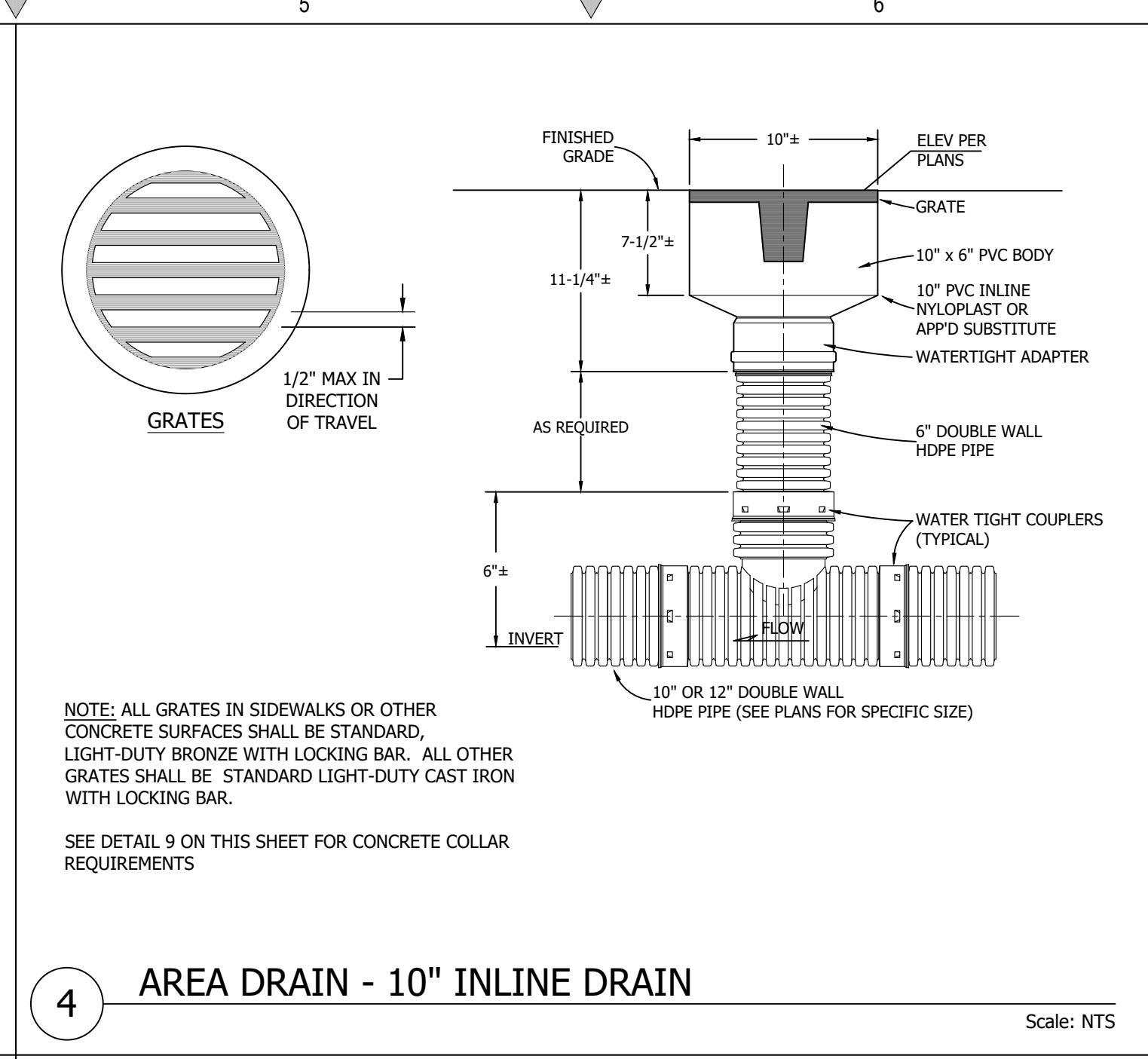
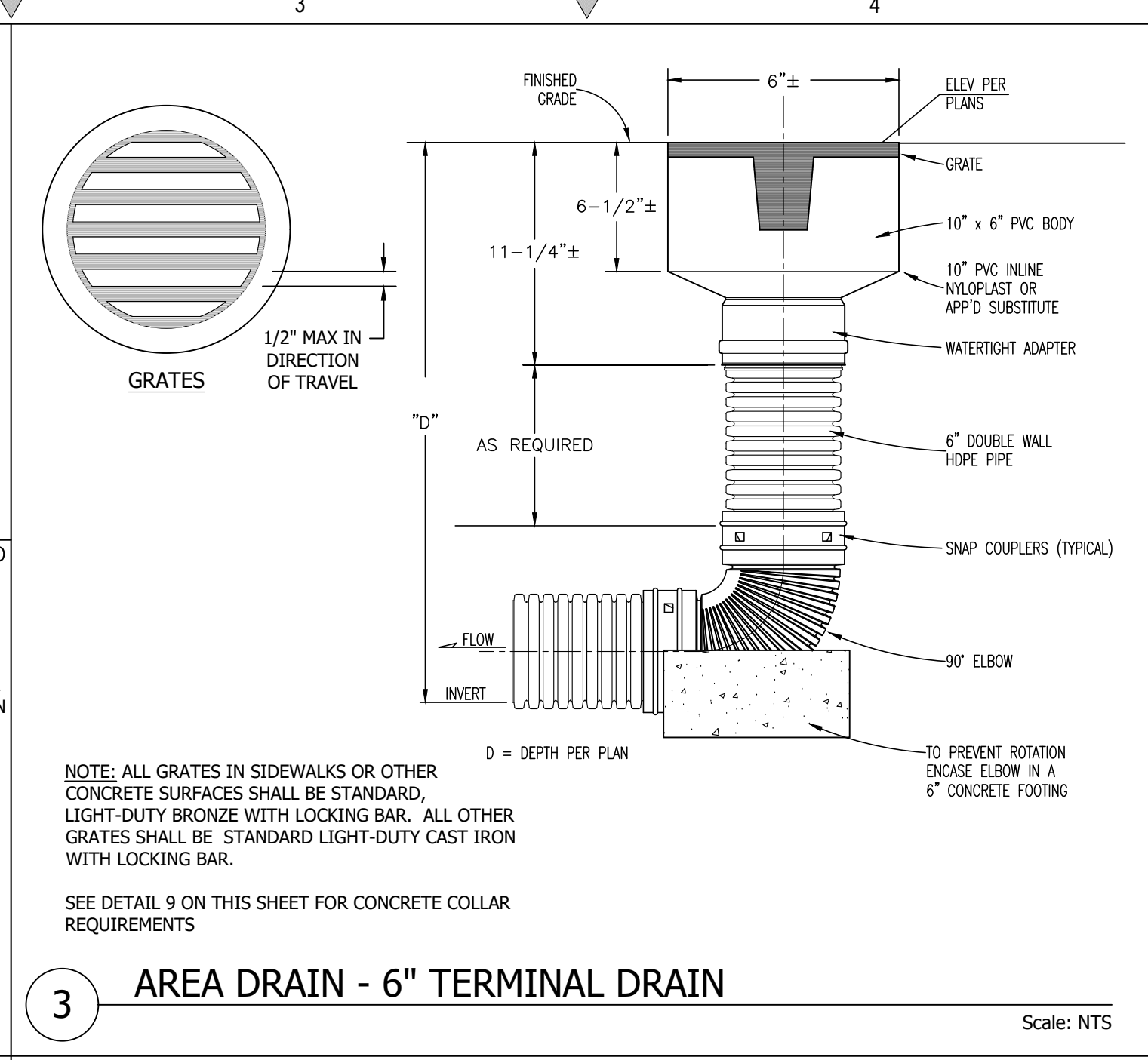
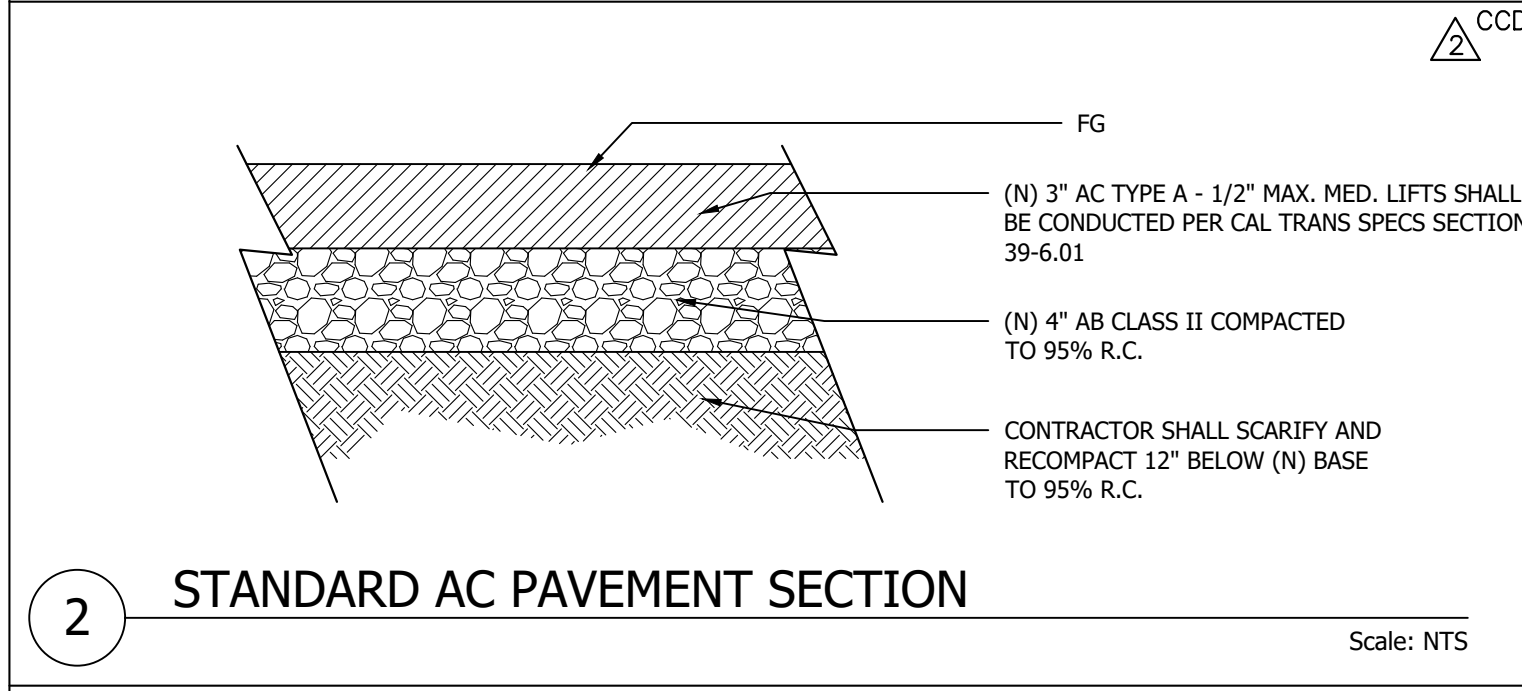
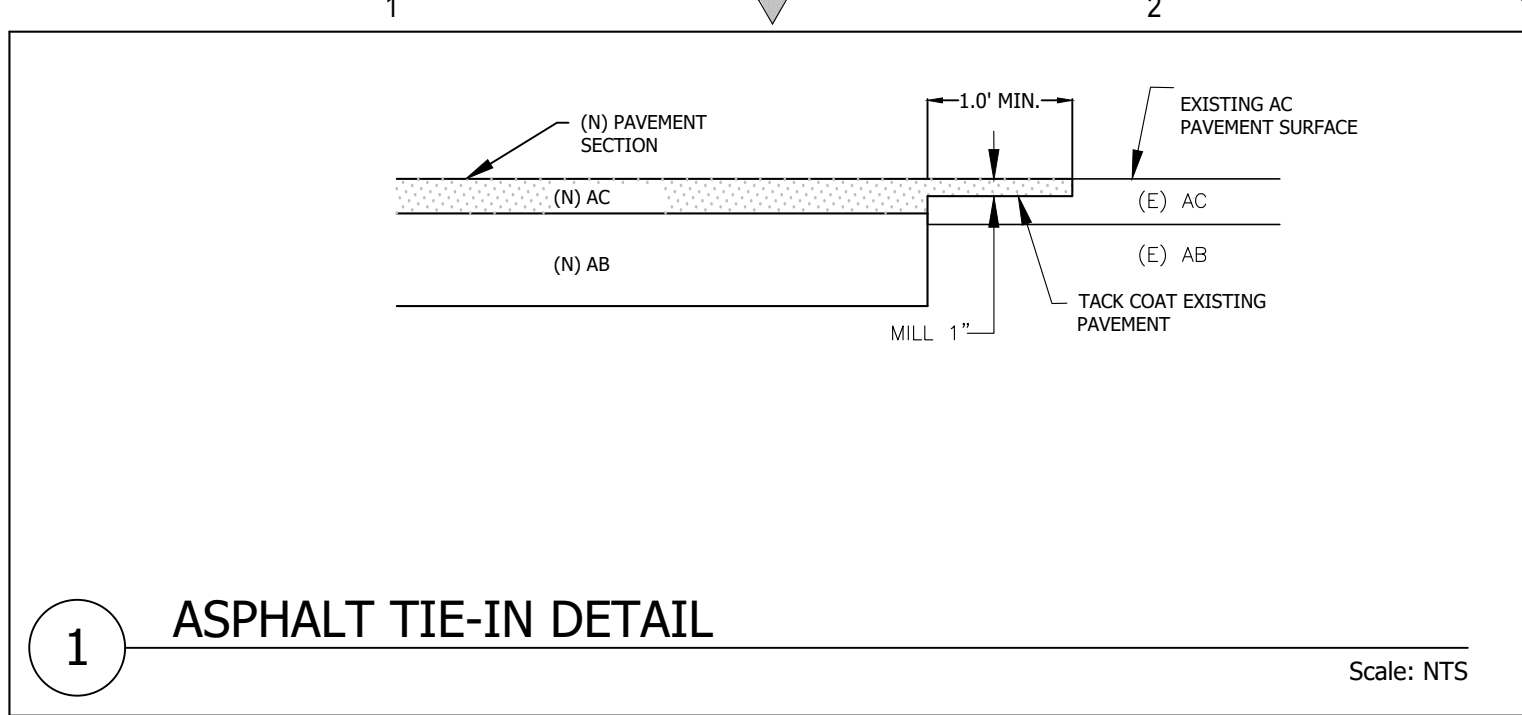
EROSION CONTROL DETAILS



C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Old Calaveras Road, Suite 6
 Milpitas, CA 95065
 T (831) 438-4420 F (831) 438-4420

GOKULAM, LLC.
 LOT B - DESIGN REVIEW
 2425 OLD CALAVERAS ROAD, MILPITAS
 APN: 029-34-004

Date:	06/15/2023
Scale:	NTS
Drawn:	DD/ESM
Job:	3007.05
Sheet:	C3.2
Of	28 Sheets



REVISIONS	BY

CONSTRUCTION DETAILS

C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Road, Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

GOKULAM, LLC.
 LOT B - DESIGN REVIEW
 2425 OLD CALAVERAS ROAD, MILPITAS
 APN: 029-34-004

Date: 06/15/2023
 Scale: NTS
 Drawn: DD/ESM
 Job: 3007.05
 Sheet: **C4.1**
 of 28 Sheets

SEPTIC SYSTEM CONSTRUCTION NOTES

A. PROJECT REQUIREMENTS

- SYSTEM TO SERVE 13 EMPLOYEES/CUSTOMERS/VOLUNTEERS, A FUTURE 6 BEDROOM HOUSE, A FUTURE 3 BEDROOM ACCESSORY DWELLING UNIT (ADU), A FUTURE 2 BEDROOM JUNIOR ADU, AND A 3 BEDROOM SMALL SCALE PERMANENT AGRICULTURAL HOUSING. INSTALLATION OF SYSTEM TO CONFORM TO SANTA CLARA COUNTY SEWAGE DISPOSAL ORDINANCE. CALL SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH 24 HOURS MIN. PRIOR TO START OF WORK AT (408)-918-3400.
- SEWAGE DISPOSAL SYSTEM CONSISTS OF A 5,000 GALLON SEPTIC TANK WITH 5,000 GALLON PUMP TANK, WATER TIGHT ACCESS RISERS TO GRADE, A BULL-RUN DIVERSION VALVE, AND TWO 48" LF X 48" LF DISPERSAL FIELDS OF 24" WIDE BY 12" DEEP DRAINROCK BED WITH INSPECTION RISERS TO GRADE. THE DISPERSAL FIELDS SHALL BE INTERCONNECTED WITH A DIVERSION VALVE. THE VALVE MUST BE CAPABLE OF DIRECTING THE SEPTIC TANK EFFLUENT TO ONE DISPERSAL FIELD AT A TIME.
- GROUND SLOPE OF DISPERSAL FIELD #1 & DISPERSAL FIELD #2 IS APPROXIMATELY 24.5%. DISPERSAL FIELDS SHALL BE INSTALLED LEVEL AND ON CONTOURS AS SHOWN ON PLAN. EXCESS SOIL FROM LEACHFIELD CONSTRUCTION SHALL BE SPREAD ON SITE AT A DEPTH OF 3" MAX OR BE REMOVED OFF-SITE.
- THE DIVERSION VALVE SHALL BE OPERATED ANNUALLY TO ROTATE THE USE OF DISPERSAL FIELDS TO EXTEND THE LIFE OF THE SEPTIC SYSTEM.
- MARK CAPS OF ALL BULL RUN VALVES (DV) AND RISERS (R) WITH A PERMANENT MARKER OR LABEL.
- SWIMMING POOLS OR SPAS MUST NOT BE DRAINED OR BACKWASHED INTO THE SEPTIC SYSTEM.
- AVOID PLANTING TREES IN DISPERSAL FIELD OR CLOSE TO SEPTIC TANK.
- GARBAGE DISPOSAL IS NOT RECOMMENDED. IF THEY ARE INSTALLED, THEY SHOULD BE USED SPARINGLY OR NOT AT ALL.
- THE SOLIDS THAT ACCUMULATE IN THE SEPTIC TANK SHOULD BE REMOVED BY PUMPING EVERY 3-5 YEARS TO PREVENT SOLIDS FROM ENTERING AND CLOGGING THE DISPERSAL FIELD.
- ALL WORK TO BE PERFORMED BY AN APPROPRIATELY LICENSED CONTRACTOR.
- PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CONTACT USA AT 1-800-227-2600 TO LOCATE ALL UNDERGROUND UTILITIES.

ACROSS ALL THE ACTIVITIES CURRENTLY PLANNED ON THE LAND -REARING LIVESTOCK, PRODUCTION AND SALE OF COMPOST, RALES OF ORCHARD GRASS AND CSA BOXES AND RESIDENCES. THE TOTAL NUMBER OF PEOPLE INCLUDING RESIDENTS, EMPLOYEES AND VISITORS WILL NOT EXCEED MORE THAN 25 PEOPLE IN A 60 DAY PERIOD ANNUALLY. PLEASE SEE THE TABLE BELOW FOR A SUMMARY.

OUR APPLICATION AND OWS DESIGN INCLUDES A 3 BEDROOM SMALL SCALE PERMANENT AGRICULTURAL HOUSING WHOSE RESIDENTS ARE ALSO SHOWN IN THE TABLE BELOW AS RESIDENT EMPLOYEES. THE LIVESTOCK SHELTER AND AGRICULTURAL SHED BOTH INCLUDE A UNISEX BATHROOM THAT WILL CATER TO THE DEMAND MENTIONED BELOW. FOR OUR CSA PROGRAM, ABOUT 2,300'S OF THE 90 FAMILIES ARE OUR REGULAR CONGREGATION WHO WILL PICK IT UP FROM OUR TEMPLE WHICH IS ABOUT 1.5 MILES AWAY LOCATED AT 680 E. CALAVERAS BLVD, MILPITAS, CA. CUSTOMER/VOLUNTEER VISITS TO 2425 OLD CALAVERAS RD SITE FOR ALL OUR OPERATIONS WILL BE BY APPOINTMENT ONLY AND WE WILL BE USING THIS APPOINTMENT SYSTEM TO ENSURE THAT THE DAILY LIMITS PROPOSED BELOW ARE ADHERED TO.

OUR OWS DESIGN ANTICIPATES A FUTURE PRIMARY RESIDENCE WITH 6 BEDROOMS, A FUTURE ADU WITH 3 BEDROOMS, A JADU WITH TWO BEDROOMS. THUS WE HAVE TWO TABLES FOR PROPOSED CURRENT USE AND ONE FOR FUTURE USE WHERE WE HAVE ADDED A COLUMN TO SHOW FUTURE RESIDENTS FOR THESE UNITS.

PROPOSED CURRENT USE/OCCUPANCY:

Day	Time	Resident Employees of Agricultural Housing	Other Employees	Volunteers /Customers	Total People
Monday to Friday	5am to 1pm	3	2	8	13
	4pm to 9pm	3	2	8	13
Saturday	5am to 1pm	3	2	8	13
	2pm to 9pm	3	2	8	13
Sunday	5am to 1pm	3	2	8	13
	2pm to 9pm	3	2	8	13

FUTURE USE/OCCUPANCY:

Day	Time	Future Residents Primary/ ADU/JADU	Resident Employees Agricultural Housing	Other Employees	Volunteers /Customers	Total People
Monday to Friday	5am to 1pm	11	3	2	8	24
	4pm to 9pm	11	3	2	8	24
Saturday	5am to 1pm	11	3	2	8	24
	2pm to 9pm	11	3	2	8	24
Sunday	5am to 1pm	11	3	2	8	24
	2pm to 9pm	11	3	2	8	24

B. SEPTIC TANK REQUIREMENTS

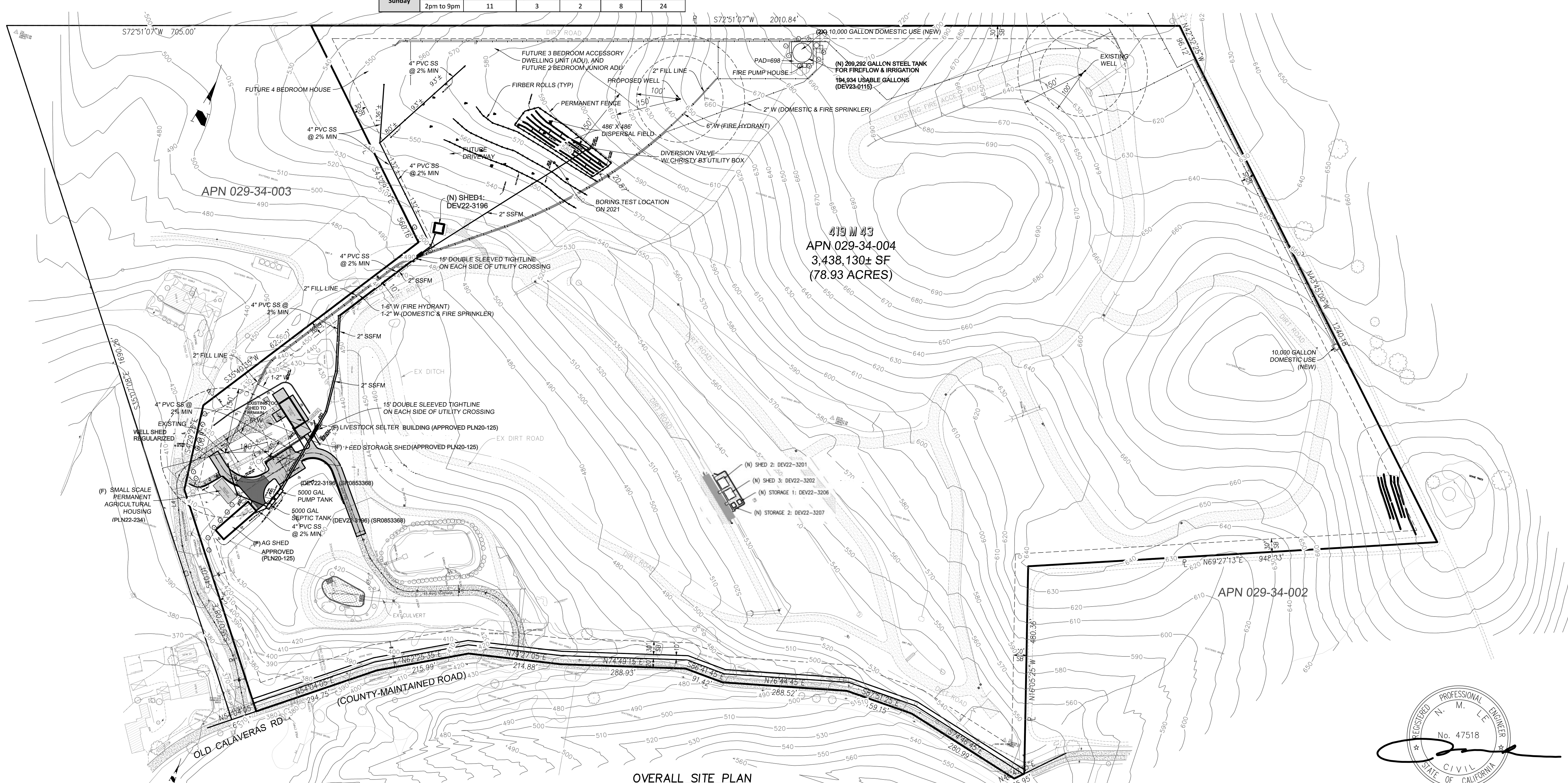
- MINIMUM CAPACITY. SEPTIC TANKS MUST HAVE A MINIMUM CAPACITY OF FIVE THOUSAND (5,000) GALLONS OR TWICE THE PEAK DAILY WASTEWATER FLOW FOR THE FACILITY SERVED, WHICHEVER IS GREATER. MINIMUM SEPTIC TANK CAPACITY FOR ASSISTED CARE FACILITIES SHALL BE EQUAL TO THREE TIMES THE PEAK DAILY WASTEWATER FLOW.
- TWO COMPARTMENTS. SEPTIC TANKS MUST BE OF TWO-COMPARTMENT CONSTRUCTION, WITH THE FIRST COMPARTMENT EQUAL TO TWO-THIRDS THE TOTAL TANK VOLUME. THE COMPARTMENTS MUST BE SEPARATED BY A Baffle OR EQUIVALENT ARRANGEMENT.
- MATERIALS. SEPTIC TANKS MUST BE WATER TIGHT, PROPERLY VENTED AND CONSTRUCTED OF REINFORCED CONCRETE, HEAVYWEIGHT REINFORCED CONCRETE BLOCKS, FIBERGLASS OR OTHER DURABLE, NON-CORRODIBLE MATERIALS AS APPROVED BY THE DIRECTOR. SEPTIC TANKS SHALL BE DESIGNED TO WITHSTAND ANY ANTICIPATED WEIGHT PLACED ABOVE IT. ALL SEPTIC TANKS SHALL BE LISTED AND APPROVED BY IARMO OR AN ANSI ACCREDITED TESTING ORGANIZATION; EXCEPTION TO THIS REQUIREMENT MAY BE GRANTED WHERE STRUCTURAL DESIGN CALCULATIONS FOR THE SEPTIC TANK ARE PROVIDED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
- ACCESS OPENINGS. ACCESS TO EACH SEPTIC TANK COMPARTMENT MUST BE PROVIDED BY A MANHOLE OPENING AT LEAST TWENTY INCHES IN DIAMETER.
- ACCESS RISERS. A RISER MUST EXTEND FROM EACH MANHOLE OPENING TO OR ABOVE THE SURFACE OF THE GROUND. THE RISER MUST BE OF A SIZE LARGER THAN THE MANHOLE OPENING, BE BOTH GAS- AND WATER-TIGHT, BE CONSTRUCTED OF DURABLE MATERIAL AND EQUIPPED WITH A SECURE COVER.
- EFFLUENT FILTER. THE OUTLET OF THE SEPTIC TANK SHALL BE FITTED WITH AN EFFLUENT FILTER CAPABLE OF SCREENING SOLIDS IN EXCESS THREE-SIXTEENTHS (3/16) OF AN INCH IN DIAMETER AND CONFORMING TO NSF/ANSI STANDARD 46 OR AS OTHERWISE APPROVED BY THE DIRECTOR.
- TANK CONNECTIONS. ALL CONNECTIONS FROM BUILDING TO SEPTIC TANK MUST CONFORM TO CONSTRUCTION STANDARDS AS REQUIRED BY THE COUNTY BUILDING OFFICIAL.
- WATER-TIGHTNESS TESTING. ALL NEW SEPTIC TANK INSTALLATIONS AND MODIFICATIONS TO EXISTING SEPTIC TANKS SHALL UNDERGO WATER-TIGHTNESS TESTING AS FOLLOWS:
 A) NEW TANKS. FOR NEW TANK INSTALLATIONS, THE TESTING SHALL BE DONE WITH THE RISERS IN PLACE AND THE INLET AND OUTLET PIPES PLUGGED. THE TANK SHALL BE FILLED WITH WATER TO A LEVEL EXTENDING A MINIMUM OF TWO (2) INCHES INTO THE RISERS, AND MONITORED FOR A 1-HOUR PERIOD, WITH NO MEASURABLE DROP IN THE WATER LEVEL.
 B) EXISTING TANKS. FOR EXISTING TANKS, THE TANK SHALL BE FILLED WITH WATER TO A LEVEL EVEN WITH THE INVERT OF THE OUTLET PIPE, AND MONITORED FOR A 1-HOUR PERIOD WITH NO MEASURABLE DROP IN WATER LEVEL. HOWEVER, IN CASES WHERE THERE THE GROUNDWATER LEVEL IS KNOWN OR ESTIMATED TO RISE ABOVE THE LEVEL OF THE OUTLET PIPE DURING ANY TIME OF THE YEAR, THE WATER-TIGHTNESS TEST SHALL BE CONDUCTED FOLLOWING THE PROCEDURE FOR NEW TANK INSTALLATIONS, I.E., BY FILLING THE TANK WITH WATER INTO THE RISERS.

C. PIPE REQUIREMENTS

- SOLID PIPE, JOINTS AND CONNECTIONS. SOLID (NON-PERFORATED) PIPE FOR OWS MUST CONFORM TO THE STANDARDS OF THE MOST RECENT EDITION OF THE UNIFORM PLUMBING CODE, WHICH IS ADOPTED BY REFERENCE INTO THE COUNTY'S BUILDING ORDINANCES. PIPE DIAMETER MUST BE FOUR INCHES. ALL SOLID PIPE JOINTS AND CONNECTIONS MUST BE GLUED, CEMENTED OR MADE WITH AN ELASTOMERIC SEAL SO AS TO BE WATER TIGHT.
- TIGHTLINES UNDER RESIDENTIAL DRIVEWAY. TIGHTLINES IN RESIDENTIAL TRAFFIC AREAS MUST BE INSTALLED WITH SCHEDULE 40 PVC. AN ALTERNATIVE IS TO SLEEVE (I.E., DOUBLE PIPE) THE THIN WALL TIGHTLINE PIPE WITH AN OUTER PIPE CONSISTING OF SCHEDULE 40 PVC, ABS OR SUITABLE ALTERNATIVE AND RATED BY THE UNIFORM PLUMBING CODE.
- DISTRIBUTION PIPE. PERFORATED PIPE FOR CONVENTIONAL OWS DISPERSAL SYSTEMS MUST CONFORM TO THE MOST RECENT EDITION OF THE UNIFORM PLUMBING CODE, WHICH IS ADOPTED BY REFERENCE INTO THE COUNTY'S BUILDING ORDINANCES. THE PIPE DIAMETER MUST BE FOUR INCHES.

D. DISPERSAL SYSTEM REQUIREMENTS

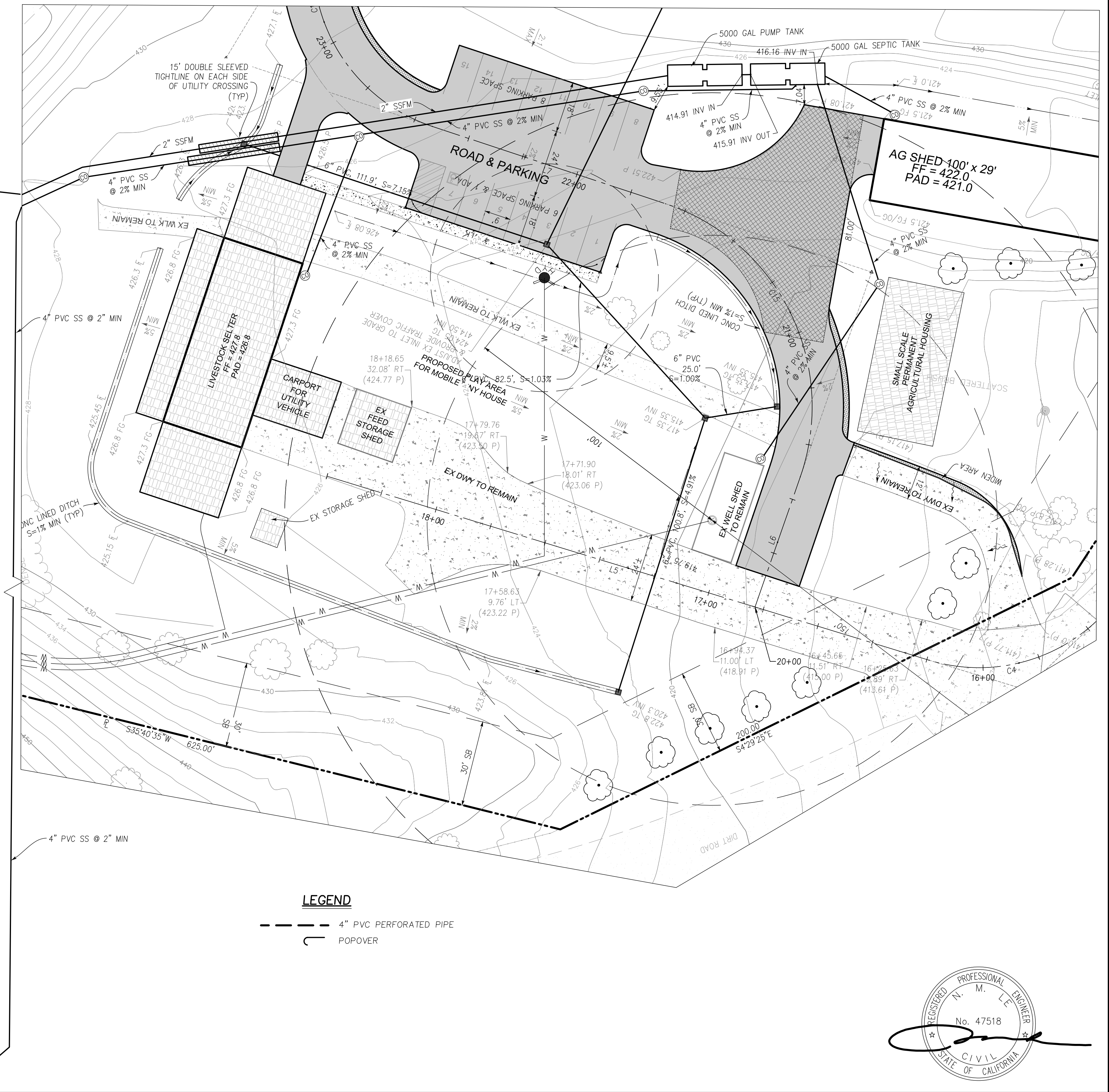
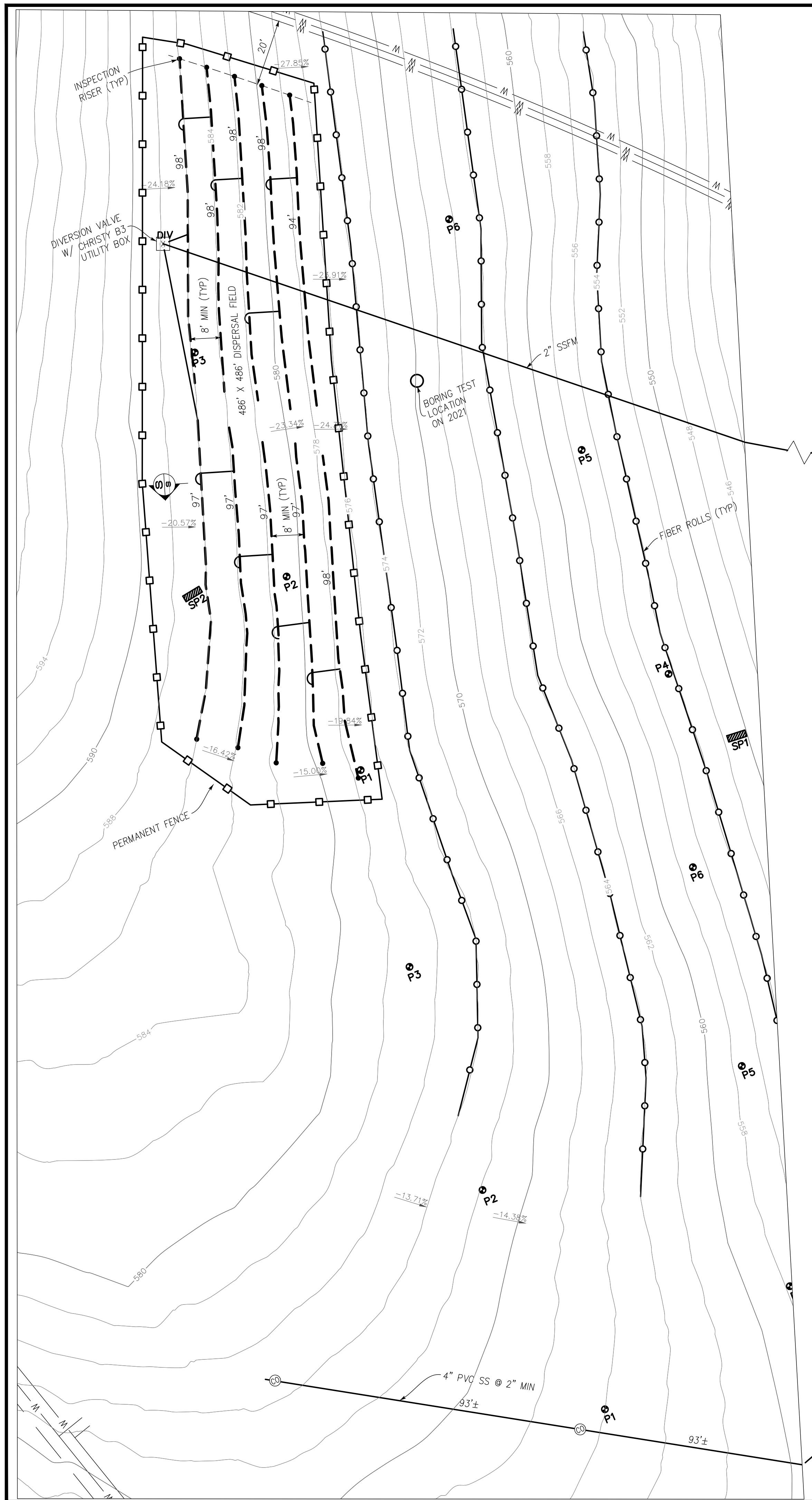
- TRENCH CONSTRUCTION.
 - TRENCHES MUST BE PLACED IN UNDISTURBED EARTH, IN AN ACCESSIBLE AREA, AND SHALL NOT BE COVERED BY PAVING OR OTHER IMPERMEABLE OR COMPACTED SURFACE. NATURAL TOPOGRAPHY SHALL NOT BE GRADED TO MODIFY SLOPE.
 - THE BOTTOM OF A TRENCH MUST BE LEVEL, WITH A VARIATION OF NO MORE THAN 2 INCHES PER 100 LINEAL FEET OF TRENCH; TRENCHES SHALL BE ALIGNED PARALLEL TO THE GROUND SURFACE CONTOURS TO THE GREATEST EXTENT PRACTICABLE.
 - ADJACENT TRENCHES ON SLOPES MUST BE CONNECTED WITH A WATER TIGHT OVERFLOW LINE ("RELIEF LINE") IN A MANNER THAT ALLOWS EACH TRENCH TO BE FILLED WITH SEWAGE EFFLUENT TO THE DEPTH OF THE ROCK BEFORE THE SEWAGE FLOWS TO THE NEXT LOWER TRENCH. ALTERNATIVELY, A DISTRIBUTION BOX (D-BOX) MAY BE USED TO EQUALLY DIVIDE THE FLOW AMONGST THE TRENCHES, PROVIDED THE PROPOSED D-BOX IS OF A DESIGN APPROVED AND LISTED BY THE DEH PER PART 3.1.E (MATERIALS AND EQUIPMENT) OF THIS MANUAL. FOR SITES LOCATED ON SITES HAVING SLOPES OF LESS THAN 5%, A "GRID" DESIGN MAY BE USED IN ACCORDANCE WITH GUIDELINES PROVIDED UNDER AT THE END OF THIS SECTION (E.F.F.).
 - TRENCHES MUST NOT BE EXCAVATED WHEN THE SOIL IS SO WET THAT SMEARING OR COMPACTION OCCURS.
 - IN CLAY SOILS WHEN GLAZING OCCURS, THE TRENCH SURFACES MUST BE SCARIFIED TO THE DEPTH OF THE GLAZING AND THE LOOSE MATERIAL REMOVED.
 - ROCK MATERIAL IN THE TRENCH MUST BE WASHED AND FREE OF FINES, AND MUST BE COVERED WITH AN APPROVED FILTER FABRIC SILT BARRIER (GEOTEXTILE) PRIOR TO BACKFILLING WITH NATURAL EARTH.
 - A CAPPED INSPECTION RISER SHALL BE INSTALLED WITHIN EACH TRENCH TO PROVIDE A MEANS OF OBSERVING THE EFFLUENT LEVEL IN THE TRENCH.
 - EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOLLOWING INSTALLATION PER REQUIREMENTS OF SECTION B11-83(C) FOR ANY CONVENTIONAL DISPERSAL SYSTEM WHERE: (1) GROUND SLOPE EXCEEDS 20%; (2) ABOVE-GRADE COVER FILL IS ADDED; (3) DESIGN FLOW EXCEEDS 1,000 GPD; OR (4) A GRADING AND/OR DRAINAGE PERMIT IS REQUIRED FOR PROJECT SITE DEVELOPMENT PER DIVISION 012, CHAPTER III OF THE COUNTY CODE. THE PLAN SUBMITTAL FOR THE OWS SHALL INCLUDE AN EROSION CONTROL PLAN IN ACCORDANCE WITH REQUIREMENTS OF ORDINANCE SECTION B11-83(C).



OVERALL SITE PLAN
1" = 120'

APPLICANT : ROAD NAME : OLD CALAVERAS ROAD FILE NO :

<p>ENGINEERING</p> <p>598 E Santa Clara St. #270 San Jose, CA 95112 Phone: (408) 606-7187</p>	<p>DESIGNED: 12/09/22</p> <p>DATE: 12/09/22</p>	<p>DATE: 12/09/22</p>	<p>DATE: 12/09/22</p>
	<p>DRAWN: [Signature]</p> <p>AS NOTED: [Signature]</p> <p>SCALE: [Signature]</p> <p>CHECKED: [Signature]</p>	<p>BY: [Signature]</p>	<p>DATE: [Signature]</p>
<p>PROJECT NO. [Signature]</p>	<p>CONTRACT NO. [Signature]</p>	<p>Milpitas</p>	<p>California</p>
<p>DRAWING NO. SS1</p>	<p>SHEET NO. 1</p>	<p>OF 3</p>	<p>FILE NO. [Signature]</p>



LEGEND
 - - - 4" PVC PERFORATED PIPE
 U POPOVER



APPLICANT : .

ROAD NAME : OLD CALAVERAS ROAD

FILE NO : .

DRAWING NO. SS2	SHT NO. 2	OF 3	MILPITAS	CONTRACT NO.	California		PROJECT NO.	SEPTIC SYSTEM PLAN LANDS OF GOKULAM LLC 2425 OLD CALAVERAS ROAD APN 029-34-004	 598 E Santa Clara St. #270 San Jose, CA 95112 Phone: (408) 606-7187	DESIGNED	DATE	DRAWN	DATE	CHECKED	DATE	BY	DATE	APPROVED	REVISIONS	NO.
					CT	12/09/22				CT	12/09/22	NL	12/09/22							

County of Santa Clara - Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS

APN 029-34-004
OWNER/APPLICANT: GOKULAM LLC
LOCATION: 2425 OLD CALAVERAS RD
CONTACT PERSON: NINH LE
SR#: 853368
REHS: PETER EITES
DATE: 3/6/20

HOLE #	DEPTH (FT)	TIME	WATER LEVEL	START	FINISH	AMIN	AINCH	MPI
1	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
2	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
3	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
4	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
5	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
6	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0

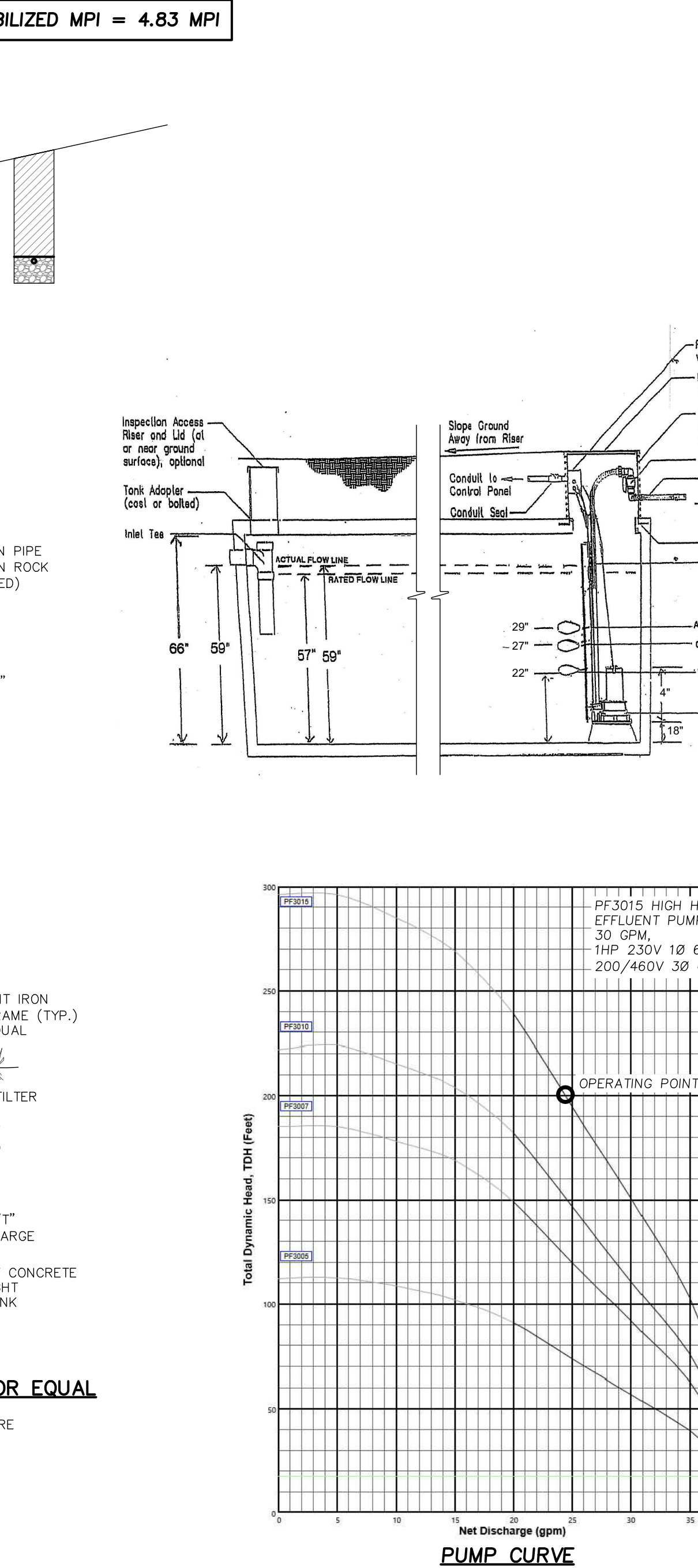
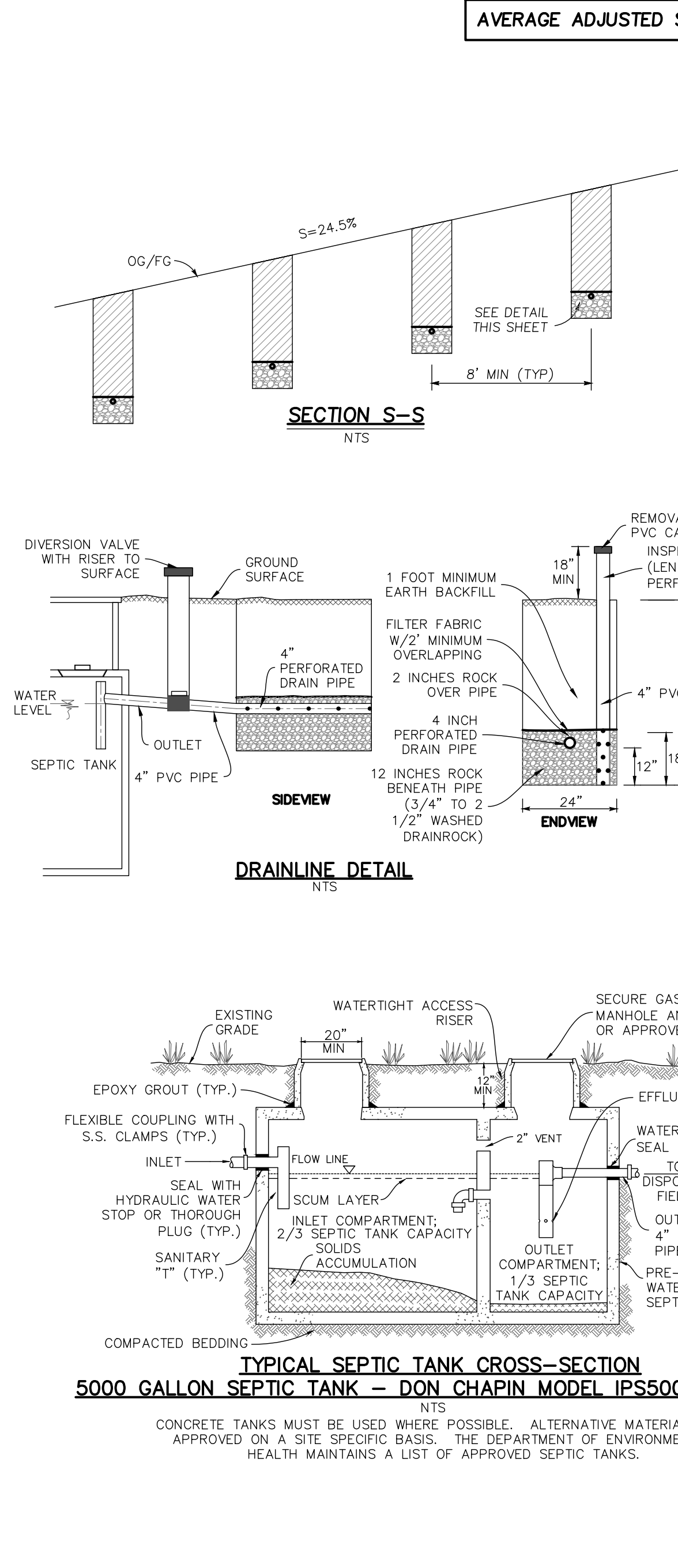
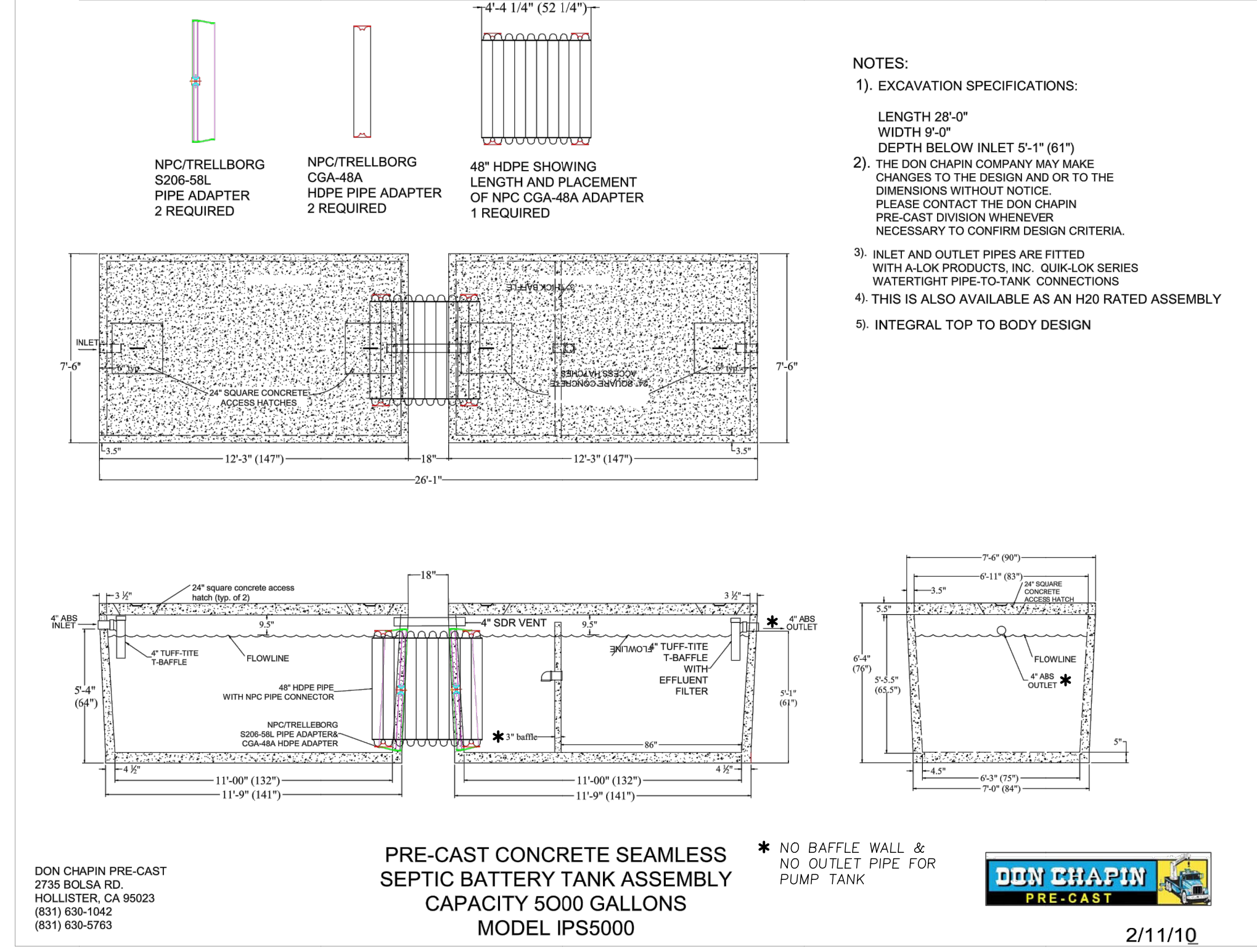
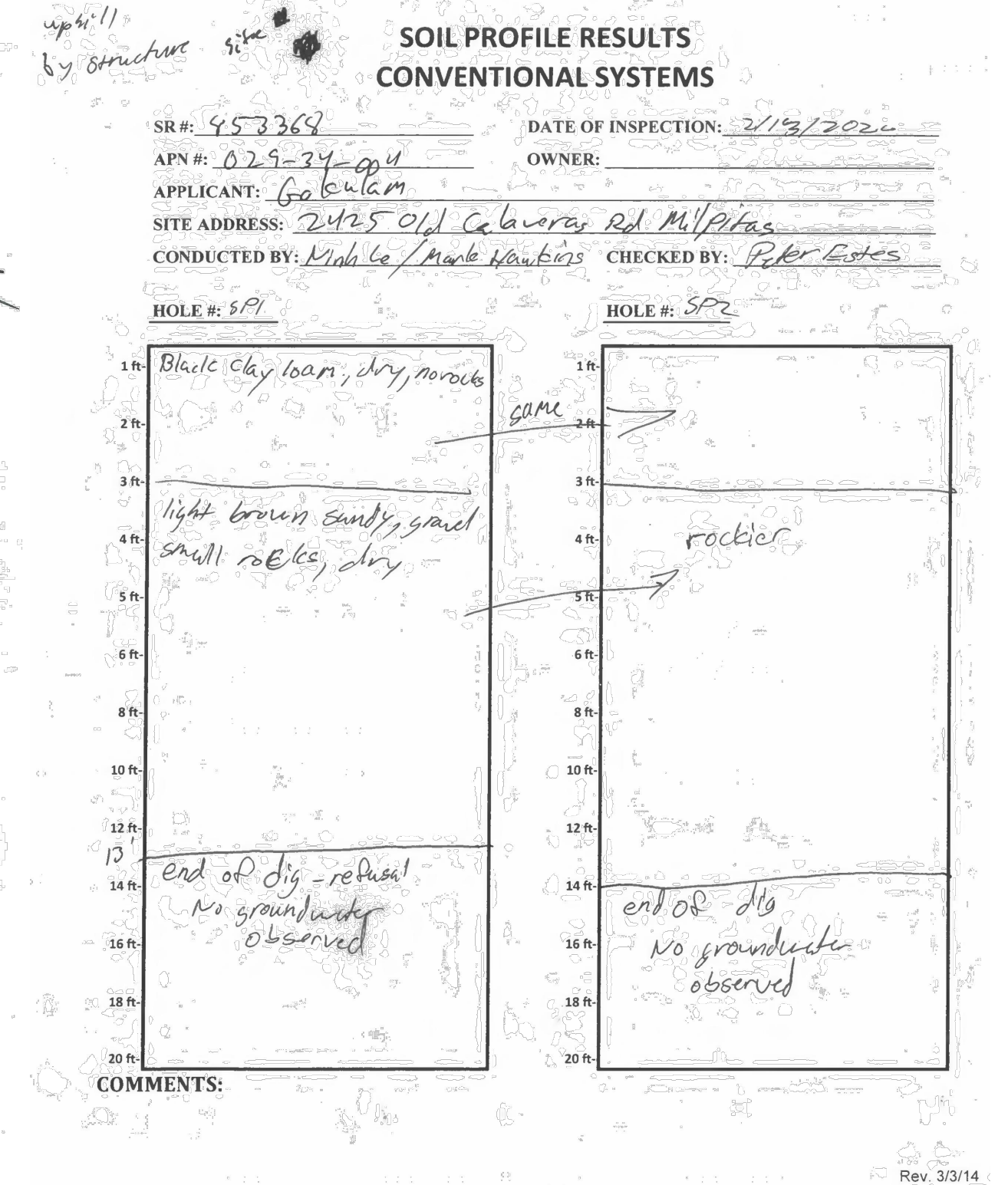
Average Adjusted Stabilized MPI = 4.83 MPI

County of Santa Clara - Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS

APN 029-34-004
OWNER/APPLICANT: GOKULAM LLC
LOCATION: 2425 OLD CALAVERAS RD
CONTACT PERSON: NINH LE
SR#: 853368
REHS: PETER EITES
DATE: 3/6/20

HOLE #	DEPTH (FT)	TIME	WATER LEVEL	START	FINISH	AMIN	AINCH	MPI
1	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
2	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
3	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
4	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
5	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0
6	10.0	10:15	10.0	10:15	10:15	10.0	10.0	0.0

Average Adjusted Stabilized MPI = 4.83 MPI



PUMP SYSTEM WORKSHEET

Applicant: NINH LE / LC ENGINEERING
Date: 10/18/22
Owner: File No.
Site Address: 2425 OLD CALAVERAS ROAD City: Milpitas APN 029-34-004

Elevation of high drain field (ft): 587.77
Elevation of pump off (ft): 411.82
Total lift (ft head): 175.95 (A)

TIGHT LINE
Diameter of tight line (inches): 2"
Length of tight line from pump to upper drain field (ft): 1129' (B)

No. of Fittings	Pipe Length Equivalent (ft) See Chart	Total Pipe Equivalent (ft)
2 90 Degrees Standard Elbow	X 6 = 12	
45 Degrees Standard Elbow	X =	
90 Long Radius Elbow	X =	
1 gate valve (fully open)	X 2 = 2	
1 check valve (conventional swing)	X 1.5 = 1.5	
TOTAL	= 15.5' (C)	

Total Length of Pipe = B + C = 1144.50 (D)
CALCULATIONS:
Friction Loss in Pipes: (B/100 ft) x 1.62 (friction loss per chart) = 18.29 (E) Head in Feet
Required Pump Size: 175.95' (A) + 18.29' (E) = 194.24' (F) Total Pumping Head in Feet

Pump Size: (F) versus GPM=Pump Size (refer to pump curve)
Pump Model: (Attach Pump Curve)
24.40 GPM at 200.00 (ft of head: from pump curve) Manufacturer/Model: ORENCO/PF3015

Required Capacity in Gallons
Dosing Volume: 475.77
Storage Capacity (1 1/2 days): 3825
Pump Displacement: 5
Volume from tank bottom to pump base/off level: 1979.41
Total tank capacity: 6394.57

TABLE 3-4. CONVENTIONAL OWTS DISPERSAL TRENCH DESIGN

PARAMETER	REQUIREMENT
Trench length	Determined based on design flow and percolation rate; see below. Recommended maximum of 100' per trench.
Trench width	18 inches minimum; 36 inches maximum
Trench depth	2.5 feet minimum; 8 feet maximum
Minimum cover over rock, in inches*	12 inches
Depth of rock under pipe (minimum)*	12 inches
Depth of rock over pipe (minimum)*	2 inches
Size of rock *	3/4 to 2 1/2 inches
Spacing of trenches, center to center, in feet, minimum	2 times the depth of rock below pipe; 6 feet minimum, plus 1-foot additional spacing for every 5% increase in dispersal area ground slope above 20%

*TABLE 3-1 WASTEWATER DESIGN FLOWS FOR SINGLE FAMILY RESIDENCES AND SECOND UNITS

No. of Bedrooms	Design Flow (gal/day)
1	150
2	300
3	450
4	525
5	600
6	675
>6	+75 per bedroom

TABLE 1. STANDARD WASTEWATER APPLICATION RATES-SEPTIC TANK EFFLUENT

Percolation Rate (MPI)	Application Rate (gpd/ft²)
1 TO 5	1.20
6	1.12

*COUNTY OF SANTA CLARA - DEH
ONSITE SYSTEM MANUAL - MAY 2014

DISPERSAL TRENCH LENGTH CALCULATIONS

REFERENCE
SANTA CLARA COUNTY ONSITE SYSTEM MANUAL (OSM), MAY 2014
WASTEWATER DESIGN FLOW (WDF)

FROM TABLE 3-2 OSM
FACTORIES AND INDUSTRIAL BUILDINGS (TOILET WASTES ONLY)
WITH SHOWERS (PER EMPLOYEE) = 35 GAL/DAY
EMPLOYEES/CUSTOMERS/VOLUNTEERS = 13
WDF = 455 GAL/DAY

FUTURE JUNIOR ACCESSORY DWELLING UNIT NO. BEDROOM = 2
FROM TABLE 3-1 OSM
2 BEDROOM HOUSE = 300 GAL/DAY
WDF = 300 GAL/DAY

FUTURE ACCESSORY DWELLING UNIT NO. BEDROOM = 3
FROM TABLE 3-1 OSM
3 BEDROOM HOUSE = 450 GAL/DAY
WDF = 450 GAL/DAY

FUTURE HOUSE NO. BEDROOM = 6
FROM TABLE 3-1 OSM
6 BEDROOM HOUSE = 675 GAL/DAY
WDF = 675 GAL/DAY

SMALL SCALE PERMANENT AGRICULTURAL HOUSING NO. BEDROOM = 3
FROM TABLE 3-1 OSM
3 BEDROOM HOUSE = 450 GAL/DAY
WDF = 450 GAL/DAY

TOTAL WDF = 2330 GAL/DAY

STANDARD WASTEWATER APPLICATION RATES (SWAR)
AVERAGE ADJUSTED PERCOLATION RATE = 4.83 MPI
FROM TABLE 1 OSM WITH 5 MPI:
SWAR = 1.20

TRENCH LENGTH CALCULATIONS
L = Q / RA
L = TRENCH LENGTH;
Q = DESIGN WASTEWATER FLOW (GPD)
R = SWAR (GPD/FT²)
A = TOTAL INFILTRATIVE AREA PER LINEAL FOOT OF TRENCH (SF)
USE INFILTRATIVE SURFACE OF 4 SF
L = 2330 / (1.20 * 4) = 485.42'; USE 486'

5000-gallon Pinnacote Tank (volume to the bottom of the tank lid)
Height (inches) Volume in Gallons (ignore baffles)

0	0.00
1	86.00
2	172.37
3	259.11
4	346.23
5	433.73
6	521.61
7	609.86
8	698.50
9	787.51
10	876.90
11	966.67
12	1056.82
13	1147.36
14	1238.27
15	1329.57
16	1421.25
17	1513.31
18	1605.76
19	1698.59
20	1791.81
21	1885.42
22	1979.41
23	2073.79
24	2168.55
25	2263.70
26	2359.25
27	2455.18
28	2551.50
29	2648.21
30	2745.31
31	2842.80
32	2940.69
33	3038.97
34	3137.64
35	3236.71
36	3336.17
37	3436.02
38	3536.27
39	3636.92
40	3737.96
41	3839.40
42	3941.24
43	4043.47
44	4146.11
45	4249.14
46	4352.57
47	4456.41
48	4560.64
49	4665.28
50	4770.32
51	4875.76
52	4981.61
53	5087.86
54	5194.51
55	5301.57
56	5409.04
57	5516.91
58	5625.19
59	5733.87
60	5842.97
61	5952.47
62	6062.38
63	6172.70
64	6283.43
65	6394.57

1979.41 Gallons
475.77 Gallons
3939.40 Gallons

SEPTIC SYSTEM PLAN
LANDS OF GOKULAM LLC
2425 OLD CALAVERAS ROAD
APN 029-34-004

DESIGNED: 12/09/22
DRAWN: 12/09/22
AS NOTED
SCALE: 1/8" = 1'-0"

DATE: 12/09/22
DATE: 12/09/22
DATE: 12/09/22

REVISIONS

DATE: 12/09/22
BY: [Signature]
CHECKED: [Signature]

PROJECT NO. [Blank]
CONTRACT NO. [Blank]

DRAWING NO. 553
SHEET NO. 3 OF 3
MILPITAS

REGISTERED PROFESSIONAL ENGINEER
N. M. LE
No. 47518
CIVIL
STATE OF CALIFORNIA