

JEFFERSON COUNTY COLORADO

APPROVED AS NOTED

Review is for general compliance with Jefferson County standards and requirements. Sole responsibility for completeness and/or accuracy of these documents shall remain with the designer and/or registered professional engineer sealing these plans/report. Jefferson County does not accept liability for facilities designed by others.

By Jennifer M. Livermore at 4:49 pm, Mar 31, 2021

NOTE: A written certification letter is required from a Professional Engineer demonstrating conformance with the approved plans.

- Given the depth and extent of cuts & fills, the geologist should provide written certification that the cuts and fills were constructed in accordance with the Plans, including fill placement and verification of stable masses (including cut and fill slopes) which will require the geologist to be onsite during the construction phase (per County Geologist comments).
 - Once construction is complete, the engineer should provide a certification letter stating that the retaining wall was built per the approved plans, including the fill placement, height, and alignment of the Redi-Rock wall. This will require the engineer to be onsite during the excavation phase. Any deviations from the approved plans should be noted in the letter. (per County Geologist comments).

STANDARD EROSION AND SEDIMENT CONTROL NOTES

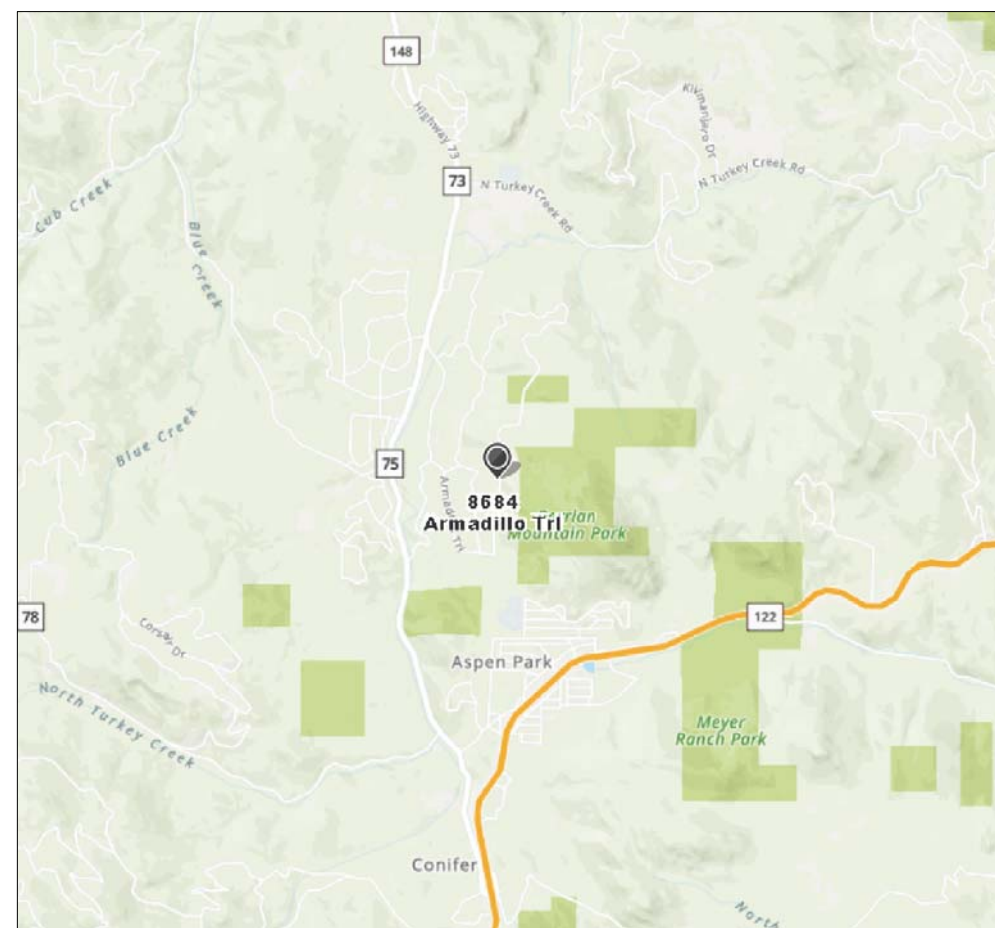
- The contractor shall notify the Jefferson County Transportation and Engineering Division at least three days prior to starting construction.
- All grading, erosion, and sediment control must conform with approved plans. Revisions to disturbance areas, slopes, and/or erosion and sediment control measures are not permitted without prior approval from the Jefferson County Planning and Zoning Division.
- The landowner and/or contractor is responsible for obtaining a permit for Stormwater Discharges Associated with Construction Activity from the Colorado Department of Public Health and Environment, at least 10 days prior to the start of construction activities for land disturbance areas of one acre or greater. The permit must be kept current throughout the construction duration. State stormwater permit application are available at this address: <http://www.cdph.state.co.us/wq/PermitsUnit/wqcdpmt.html>
- Erosion control best management practices (BMPs) must be installed prior to grading activities, to the maximum extent practicable. Two-phased (initial & Final) erosion control plans must be submitted for sites disturbing 2 acres or more.
- All temporary and permanent soil erosion and sediment control practices must be maintained and repaired as needed to assure continued performance of their intended function. For example, erosion control blankets, sediment control logs, or silt fences may require periodic replacement. Sediment traps and basins will require periodic sediment removal.
- All topsoil, where physically practical, must be salvaged and no topsoil shall be removed from the site except as set forth in the approved plans. Topsoil and overburden must be segregated and stockpiled separately. Topsoil and overburden must be redistributed within the graded area after rough grading to provide a suitable base for areas that must be seeded and planted. Runoff from the stockpiled area must be controlled to prevent erosion and sedimentation of receiving waters.
- The landowner and/or contractor must immediately take all necessary steps to control increased sediment discharge.
- The landowner and/or contractor is responsible for cleanup and removal of all sediment and debris from all drainage infrastructure and other public facilities.
- The landowner and/or contractor must take reasonable precautions to ensure that vehicles do not track or spill earth materials on to streets/roads and must immediately remove such materials if this occurs.
- The landowner and/or contractor is responsible for controlling * litter such as discarded building materials, concrete truck washout, chemicals, and sanitary waste, as applicable. In addition, spill prevention and containment BMPs for construction materials, waste, and fuel must be provided, as applicable. Locations of stockpiles, concrete washout areas, and trash receptacles must be clearly shown of the plans. *Littering is defined and enforced by CRS 18-4-511
- The stormwater volume capacity of detention ponds must be restored and storm sewer lines will be cleaned upon completion of the project.
- Seeding and mulching shall be completed within 30 days of initial exposure or 7 days after grading is substantially completed in a given area (as defined by the county). This may require multiple mobilizations for seeding and mulching.
- Permanent vegetative cover consisting of Mountain Home "Firewise" Mix must be applied with Bonded Fiber Matrix hydromulch as outlined below.

Species	Variety	Percent of Mix	Hydromulch Application Rate
Blue grama	Lovington	20	5.6
Streambank wheatgrass	Sodar	20	4.2
Western wheatgrass	Rosana	10	4.2
Thickspike wheatgrass	Critana	10	2.8
Canby bluegrass	Canbar	20	5.6
Sheep fescue	Covar	20	5.6
		100	28 lbs./Ac.
- Fugitive dust emissions resulting from grading activities and/or wind shall be controlled using the best available control technology, as defined by the Colorado Department of Public Health and Environment, at the time of grading. During grading, applying a combination of water, tackifier and silt fence to break up wind surface velocities may control dust. If wind speeds exceed the ability of BMPs to control dust, grading activities must cease.

ODDO RESIDENCE 8684 ARMADILLO TRAIL

GRADING, EROSION & SEDIMENT CONTROL PLAN and PRIVATE ACCESS DRIVEWAY PLAN for JEFFERSON COUNTY GRADING PERMIT

8684 ARMADILLO TRAIL
 LOT 32 - EVERGREEN MEADOWS UNIT 7
 EVERGREEN, COLORADO
 JEFFERSON COUNTY
 61-024-01-001
 ZONING : SR-2
 10.0 ACRES



VICINITY MAP
N.T.S.

- SHEET INDEX**
- C.1 COVER SHEET
 - C.2 PHASE I - GESC PLAN
 - C.3 PHASE II - GESC PLAN
 - C.4 PROFILE AND DETAILS
 - C.5 CROSS SECTIONS
 - C.6 DRAINAGE PLAN & DETAILS
 - C.7 EROSION CONTROL DETAILS
 - S.1 RETAINING WALL
 - S.2 RETAINING WALL

- All disturbed fill slopes greater than or equal to 30%, flowlines of swales, gutter downspouts, or additional areas at the discretion of county staff, shall be protected with an erosion blanket.
- The Jefferson County Planning and Zoning Division, or its authorized representative, may modify the erosion and sediment control plan as field conditions warrant.
- Refer to the Jefferson County G.E.S.C. Standard Plans and Details for details and installation of BMP's not presented in this plan set.

GENERAL NOTES

- Design is based on the Jefferson County Roadway Design and Construction Manual. Follow all provisions therein.
- Erosion control measures are based on the Jefferson County Small Site Erosion Control Manual. Follow all provisions therein.
- All fill shall be compacted to a minimum of 90% of the maximum density as determined by ASTM D1557. The standard for fill compaction shall not apply to fills of less than 50 CY which are placed on natural terrain with a slope flatter than 5H:1V, are less than 5 feet in depth, are not intended to support structures, and do not obstruct a drainage course.
- Cut and fill slopes shall be limited to 4H:5V and 3H:2V, respectively per the Soils & Geology Roadcut Investigation prepared by P. Budd, LLC dated May 22, 2020.
- Permanent or temporary soil stabilization measures shall be applied to disturbed areas and soil stockpiles within 14 days after final grade is reached on any portion of the site. Soil stabilization measures shall be applied within 14 days to disturbed areas which may not be at final grade, but will be left dormant for longer than 60 days.

PROJECT SCHEDULE

- | | |
|--|----------------|
| 1. Initial Erosion Control Installation: | April 2021 |
| 2. Initial Grading and Excavation: | April 2021 |
| 3. Finish Grading: | September 2022 |
| 4. Seeding and Mulching: | September 2022 |

DISTURBANCE

EARTHWORK QUANTITIES
 Cut Material: 3,700 CY
 Fill Material: 1,970 CY
 Net Cut Material: 1,730 CY
 (Cut material to be exported)

TOTAL DISTURBED AREA
 0.90 Acres (39,300 SF)

NRCS K-FACTOR (soil erodibility)
 K-Factor = 0.28

ON-SITE IMPERVIOUS AREA
 Existing Impervious Area: 0 SF

Proposed Residence: 5,175 SF
 Proposed Driveway: 8,199 SF
 13,374 SF

Since the lot is greater than 2.5 acres and the cumulative impervious area is less than 20,000 sf, stormwater detention is not required.

CONTACTS

Owners
 Vince and Christina Oddo
 31299 Manitoba Drive
 Evergreen, CO 80439
 Phone: 484.883.1256

Civil Engineer
 Purrington Civil, LLC
 1299 Washington Avenue, Ste 280
 Golden, CO 80401
 Phone: 303.956.8353
 Contact: Chris Purrington, P.E.

Surveyor
 American Surveys
 26689 Pleasant Park Road
 Conifer, CO 80433
 Phone: 303.674.6018
 Contact: Russ Kotke

Jefferson County Transportation & Engineering
 100 Jefferson County Parkway, #3500
 Golden, CO 80419
 Phone: 303.271.8495

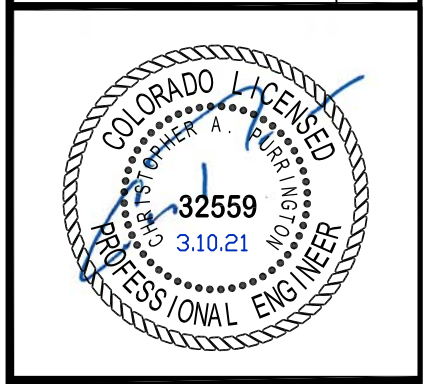
DATE	REVISION	BY
3.10.21	JEFFCO COMMENTS 1.27.21	CP

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 1299 WASHINGTON AVENUE
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COVER SHEET

SCALE: N.T.S.



C.1

DATE: 12-7-20
 JOB NUMBER: 20-023

ODDO RESIDENCE

PHASE I - GRADING, EROSION AND SEDIMENT CONTROL PLAN

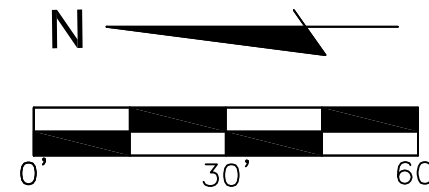
BMP MASTER LEGEND

	CD	NATURAL ROCK CHECK DAM
	CWA	CONCRETE WASHOUT AREA
	ECB	EROSION CONTROL BLANKET
	IP	INLET PROTECTION
	RR	RIPRAP RUNDOWN
	RBC	ROCK BERM CULVERT PROTECTION
	SCL	SEDIMENT CONTROL LOG
	RSF	REINFORCED SILT FENCE
	BFM	BONDED FIBER MATRIX HYDROMULCH
	VTC	VEHICLE TRACKING CONTROL

* PHASE I - EROSION CONTROL MEASURES



Know what's below.
Call before you dig.

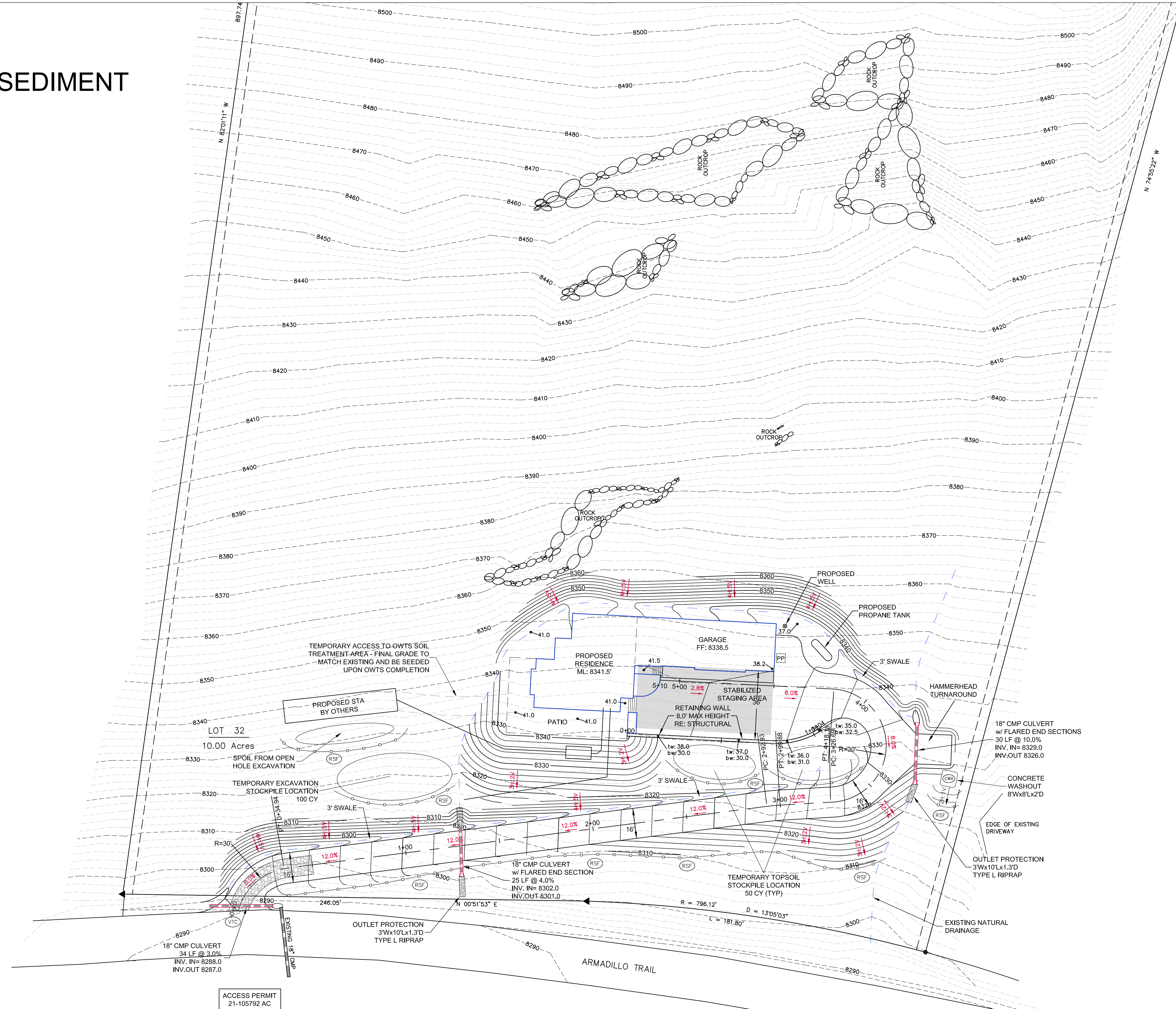


LEGEND (EXISTING)

	PROPERTY BOUNDARY
	ADJOINER PROPERTY LINES
	RIGHT-OF-WAY
	EASEMENT
	2' CONTOUR
	10' CONTOUR
	EDGE OF PAVEMENT
	UNPAVED ROAD
	BENCHMARK/CONTROL POINT
	SIGN
	BOLLARD/POST
	MAILBOX
	LIGHT POST
	FLOWLINE
	ELECTRIC UTILITY LINE
	OVERHEAD ELECTRIC UTILITY LINE
	UTILITY POLE
	ELECTRICAL TRANSFORMER
	COMMUNICATION BOX
	COMMUNICATION UTILITY LINE
	RETAINING WALL
	FENCE
	GAS UTILITY LINE
	GAS METER
	SANITARY SEWER LINE
	WATER MAIN
	FIRE HYDRANT
	STORM CULVERT
	STORM SEWER INLET

LEGEND (PROPOSED)

	2' CONTOUR
	10' CONTOUR
	SHOULDER
	DRIVE SURFACE
	SANITARY SEWER
	WATER
	STORM CULVERT
	STORM SEWER INLET
	ELECTRICAL TRANSFORMER
	SPOT ELEVATION
	RETAINING WALL
	DRIVEWAY GRADE
	CUT / FILL SLOPE
	ASPHALT
	CONCRETE



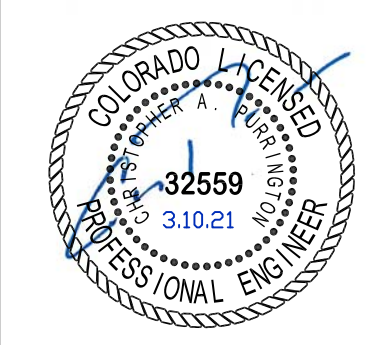
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ODDO RESIDENCE
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www.PurringtonCivil.com

PHASE I
GESC PLAN

SCALE: AS NOTED



C.2

ODDO RESIDENCE

PHASE II - GRADING, EROSION AND SEDIMENT CONTROL PLAN

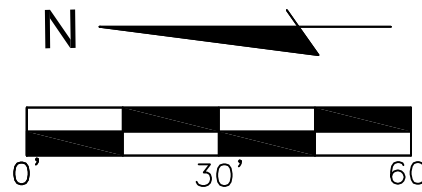
BMP MASTER LEGEND

* [Symbol]	[Symbol]	(CD)	NATURAL ROCK CHECK DAM
[Symbol]	[Symbol]	(CWA)	CONCRETE WASHOUT AREA
[Symbol]	[Symbol]	(ECB)	EROSION CONTROL BLANKET
[Symbol]	[Symbol]	(IP)	INLET PROTECTION
[Symbol]	[Symbol]	(RR)	RIPRAP RUNDOWN
[Symbol]	[Symbol]	(RBC)	ROCK BERM CULVERT PROTECTION
[Symbol]	[Symbol]	(SCL)	SEDIMENT CONTROL LOG
[Symbol]	[Symbol]	(RSF)	REINFORCED SILT FENCE
* [Symbol]	[Symbol]	(BFM)	BONDED FIBER MATRIX HYDROMULCH
[Symbol]	[Symbol]	(VTC)	VEHICLE TRACKING CONTROL

* PHASE II - EROSION CONTROL MEASURES



Know what's below.
Call before you dig.

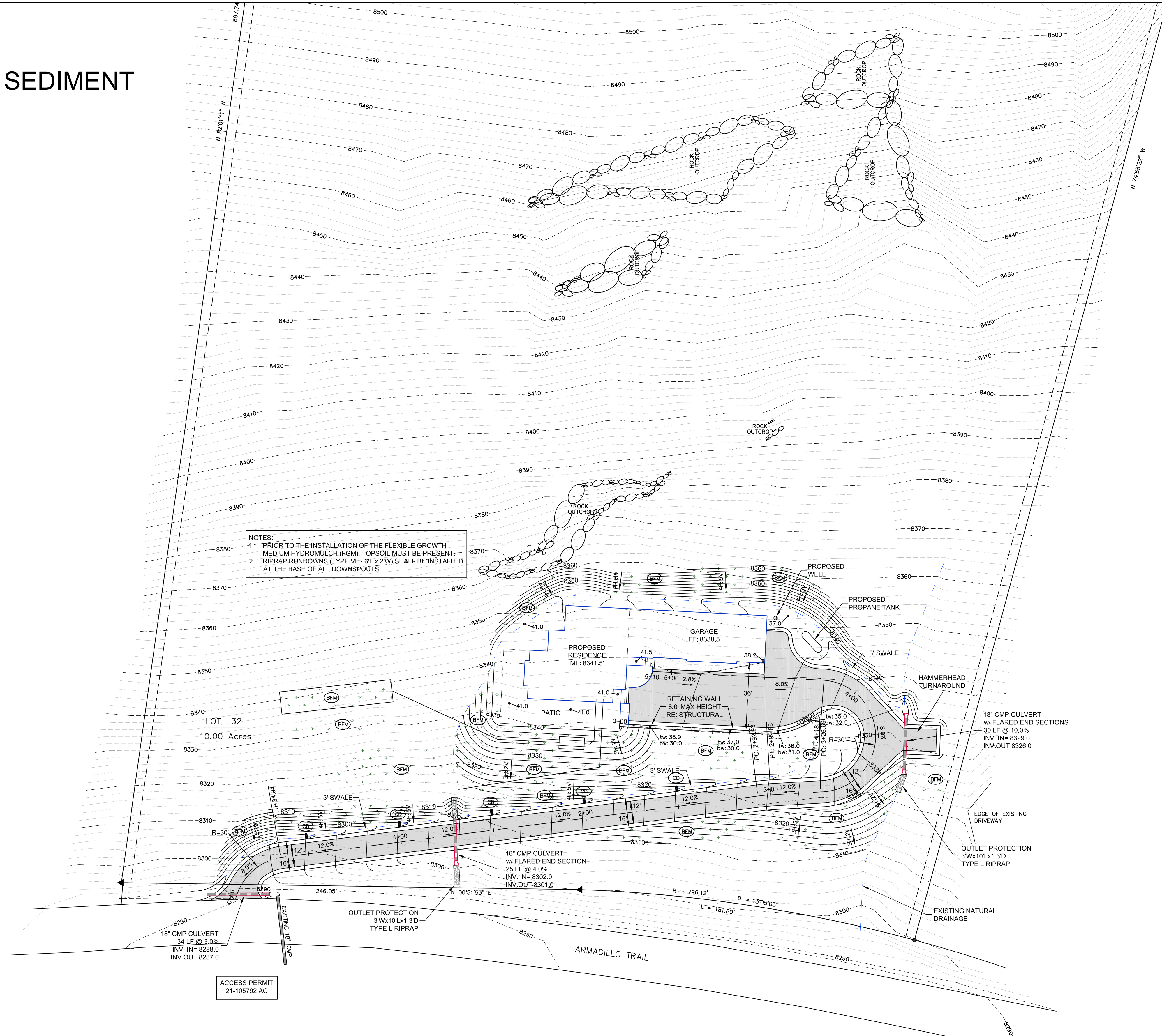


LEGEND (EXISTING)

[Symbol]	PROPERTY BOUNDARY
[Symbol]	ADJOINER PROPERTY LINES
[Symbol]	RIGHT-OF-WAY
[Symbol]	EASEMENT
[Symbol]	2' CONTOUR
[Symbol]	10' CONTOUR
[Symbol]	EDGE OF PAVEMENT
[Symbol]	UNPAVED ROAD
[Symbol]	BENCHMARK/CONTROL POINT
[Symbol]	SIGN
[Symbol]	BOLLARD/POST
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LEGEND (PROPOSED)

[Symbol]	2' CONTOUR
[Symbol]	10' CONTOUR
[Symbol]	SHOULDER
[Symbol]	DRIVE SURFACE
[Symbol]	SANITARY SEWER
[Symbol]	WATER
[Symbol]	STORM CULVERT
[Symbol]	STORM SEWER INLET
[Symbol]	ELECTRICAL TRANSFORMER
[Symbol]	SPOT ELEVATION
[Symbol]	RETAINING WALL
[Symbol]	DRIVEWAY GRADE
[Symbol]	CUT / FILL SLOPE
[Symbol]	ASPHALT
[Symbol]	CONCRETE



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PHASE II
GESC PLAN

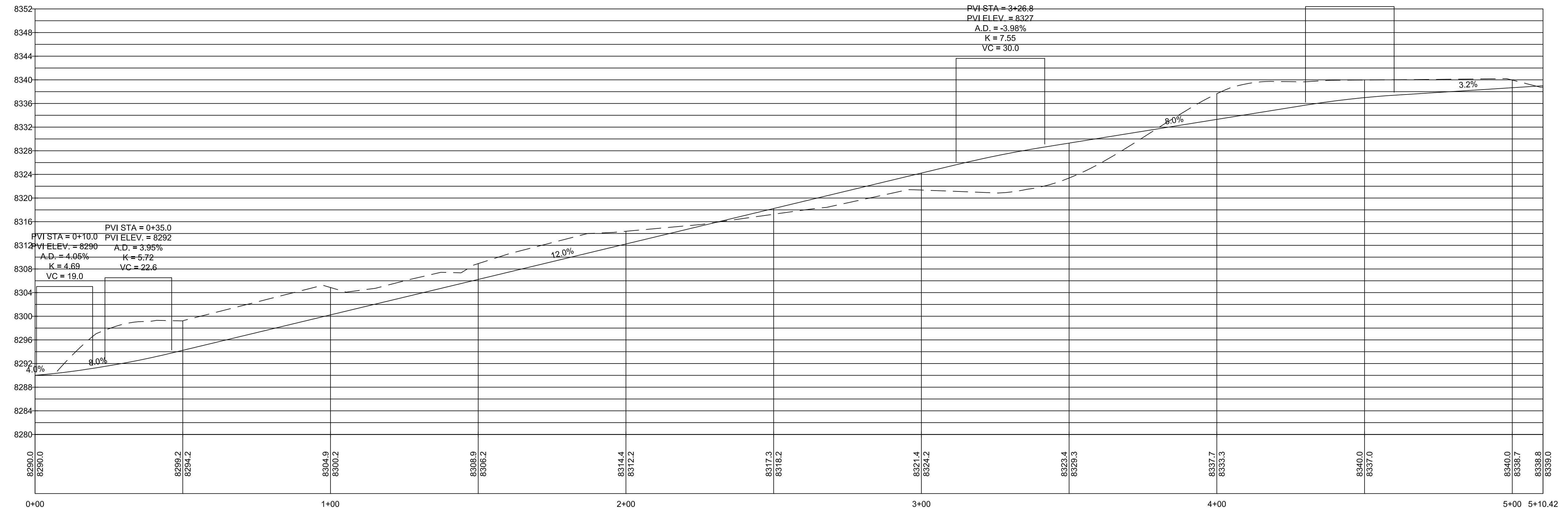
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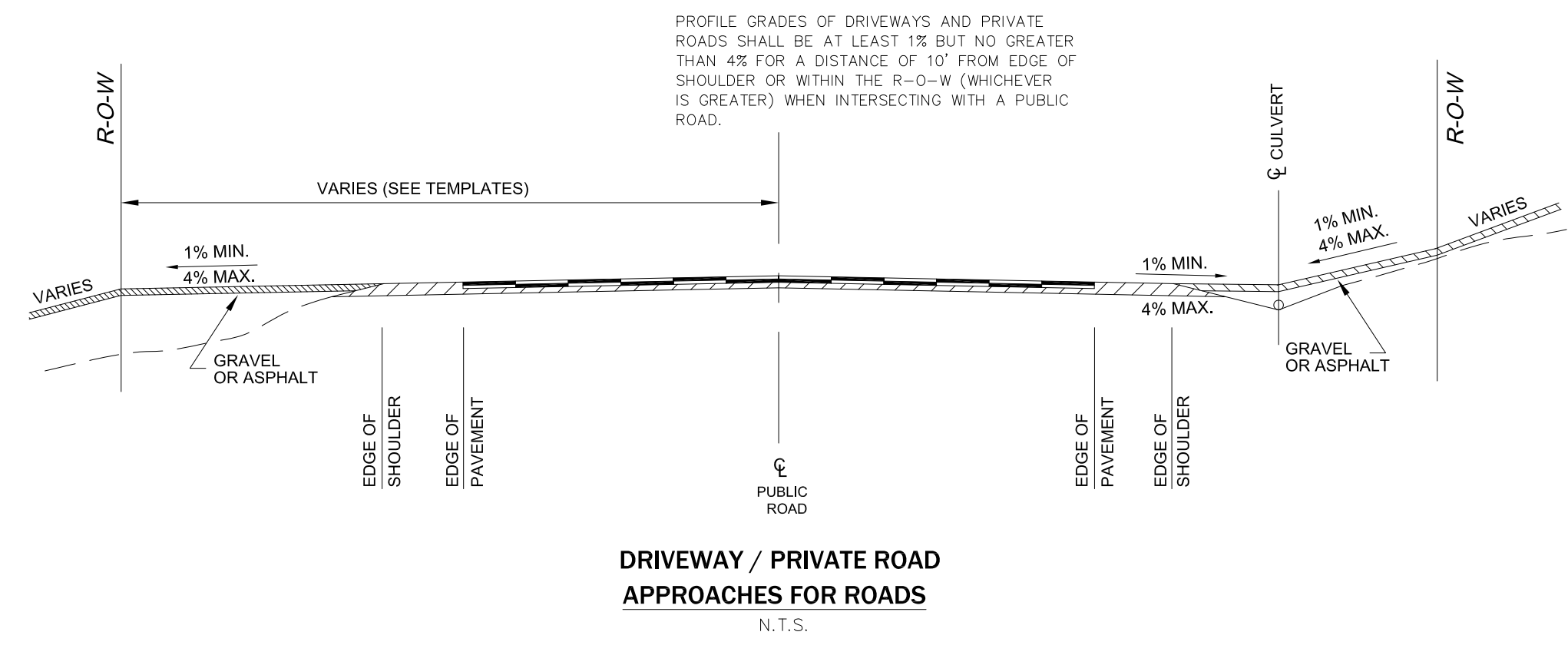
C.3

ODDO RESIDENCE

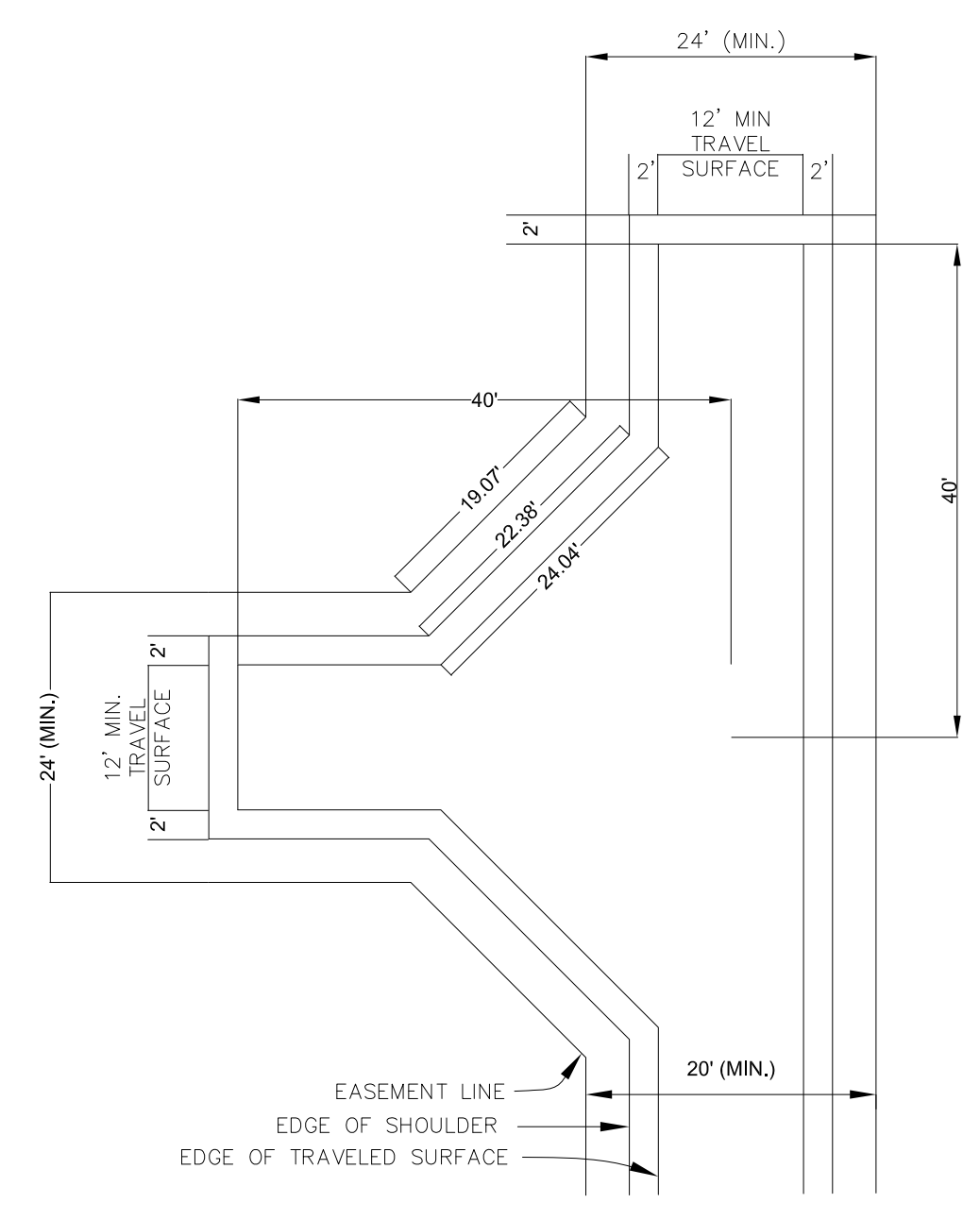
PROFILE AND DETAILS



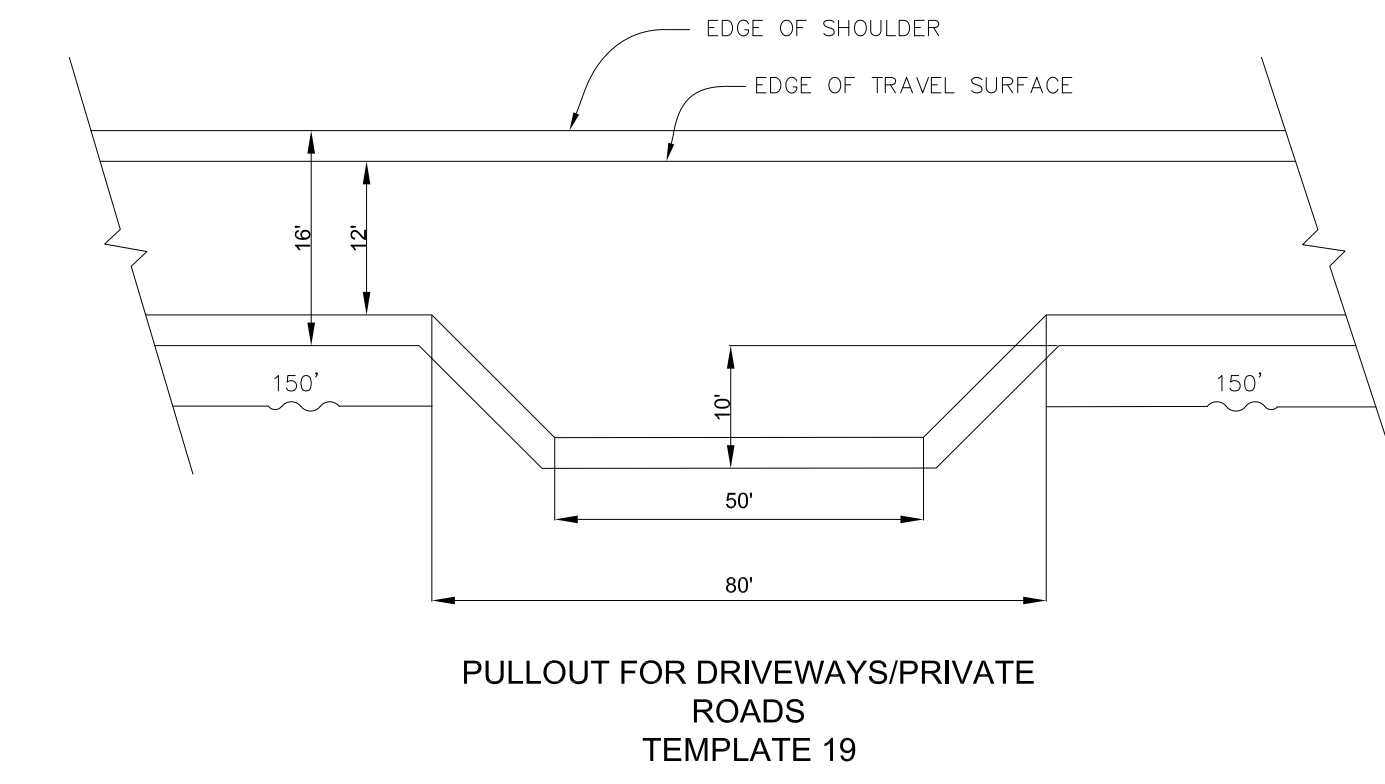
DRIVEWAY PROFILE
SCALE
H: 1" = 20' V: 1" = 10'



DRIVEWAY / PRIVATE ROAD APPROACHES FOR ROADS
N.T.S.



HAMMERHEAD TURNAROUND FOR DRIVEWAYS/PRIVATE ROADS
TEMPLATE 20



PULLOUT FOR DRIVEWAYS/PRIVATE ROADS
TEMPLATE 19

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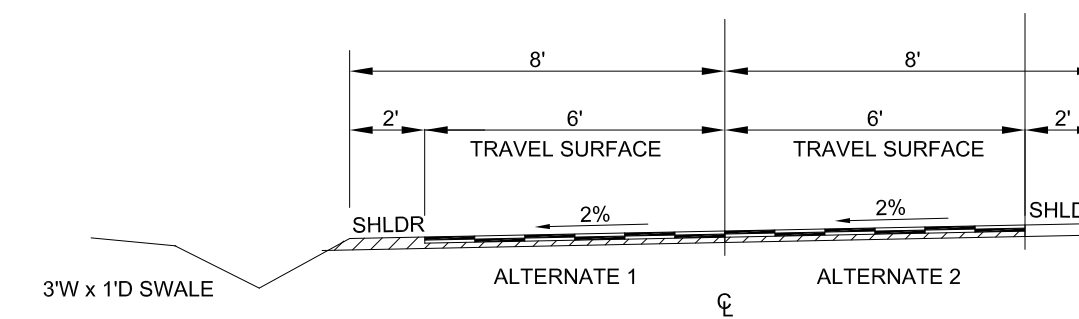
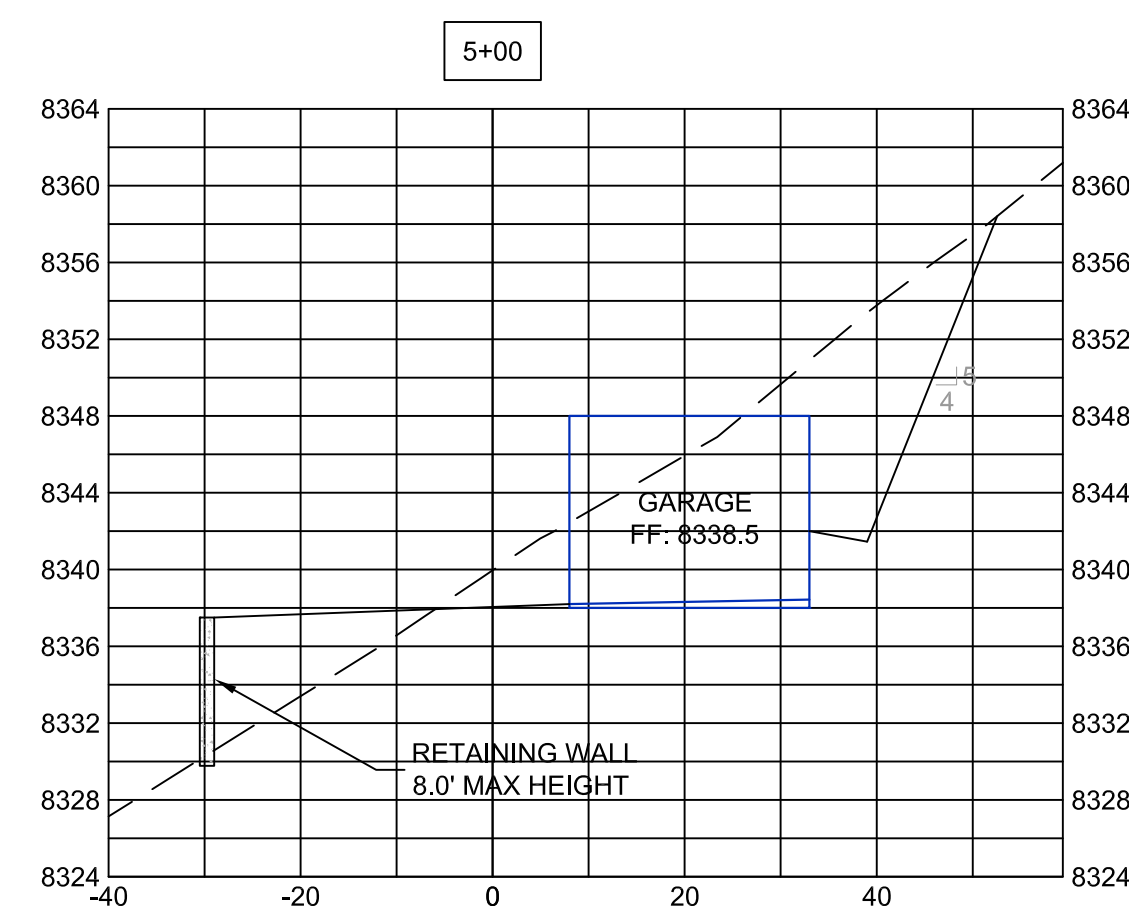
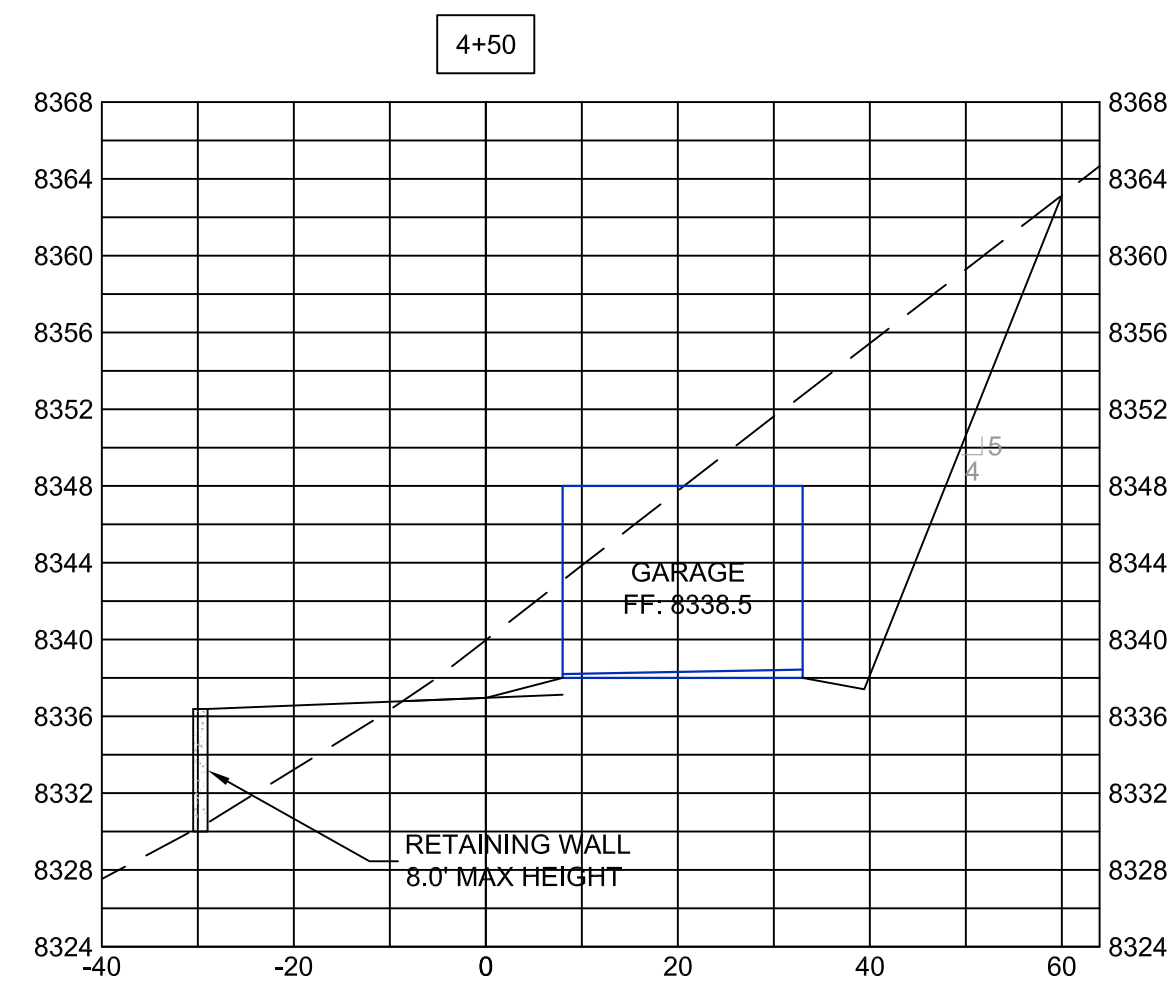
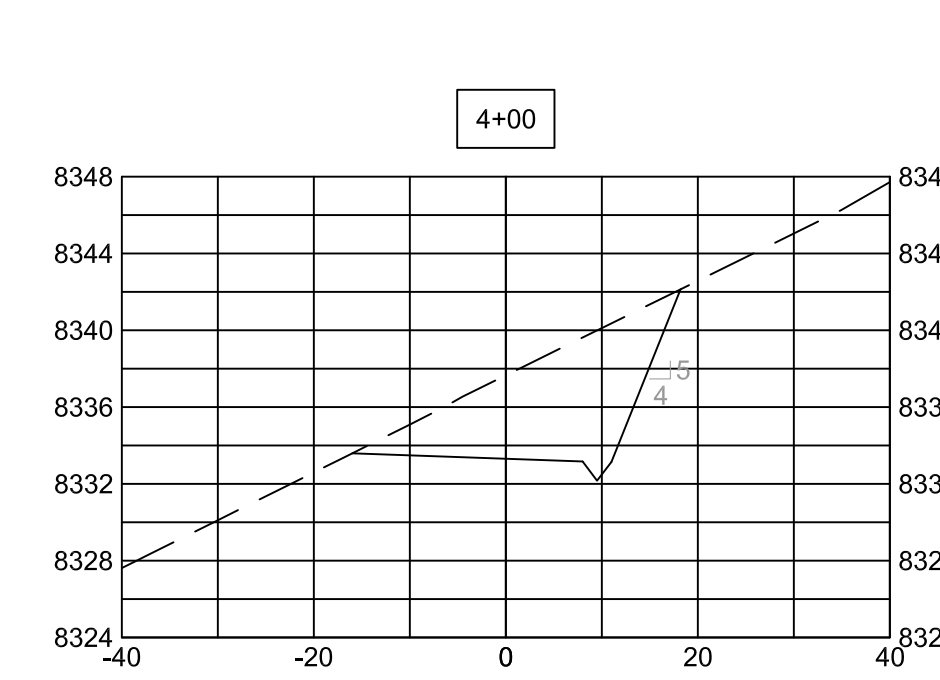
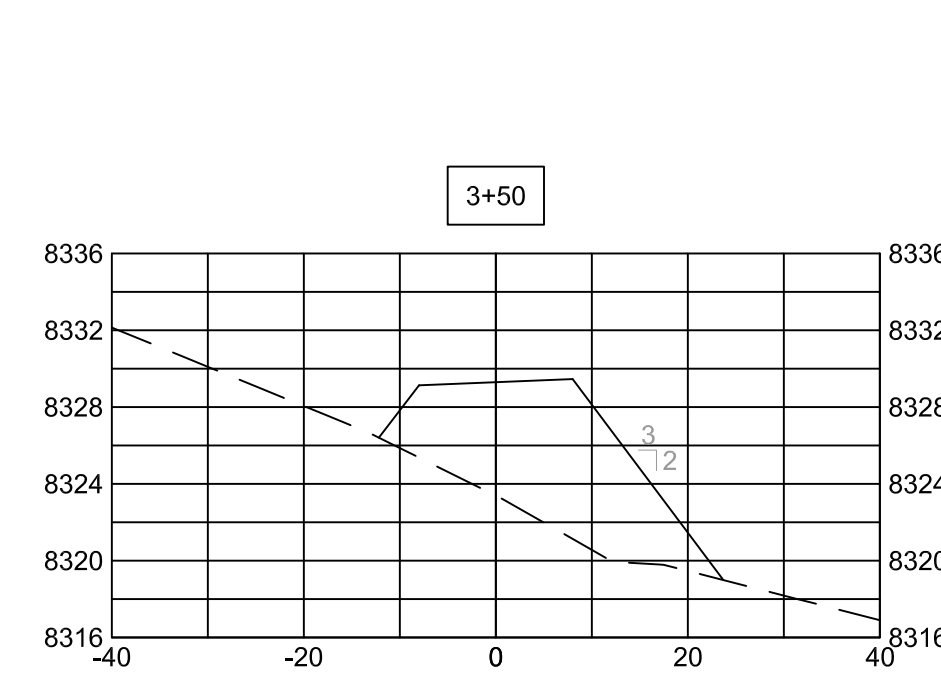
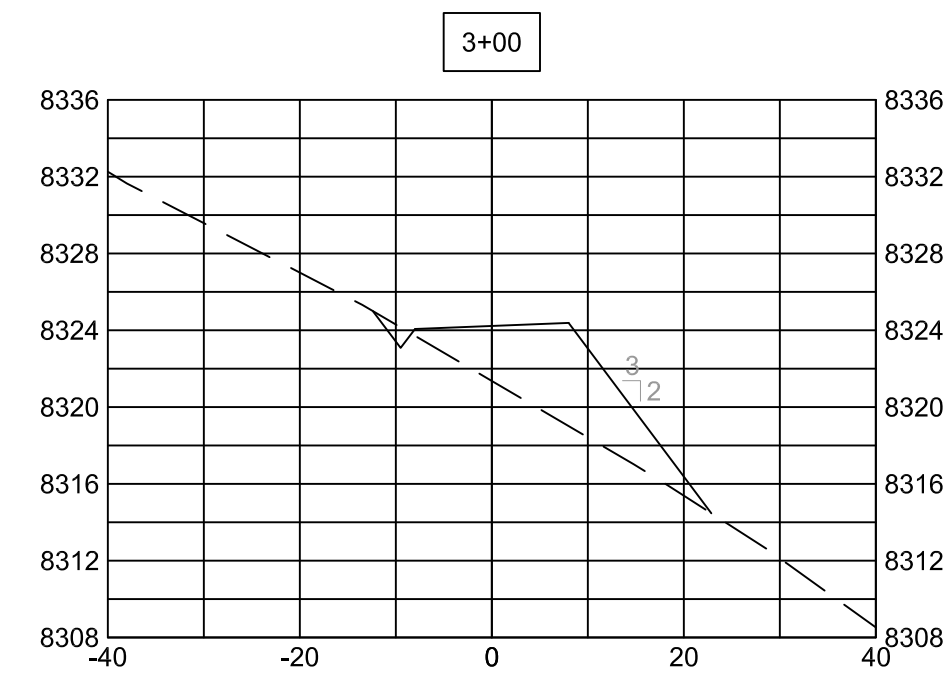
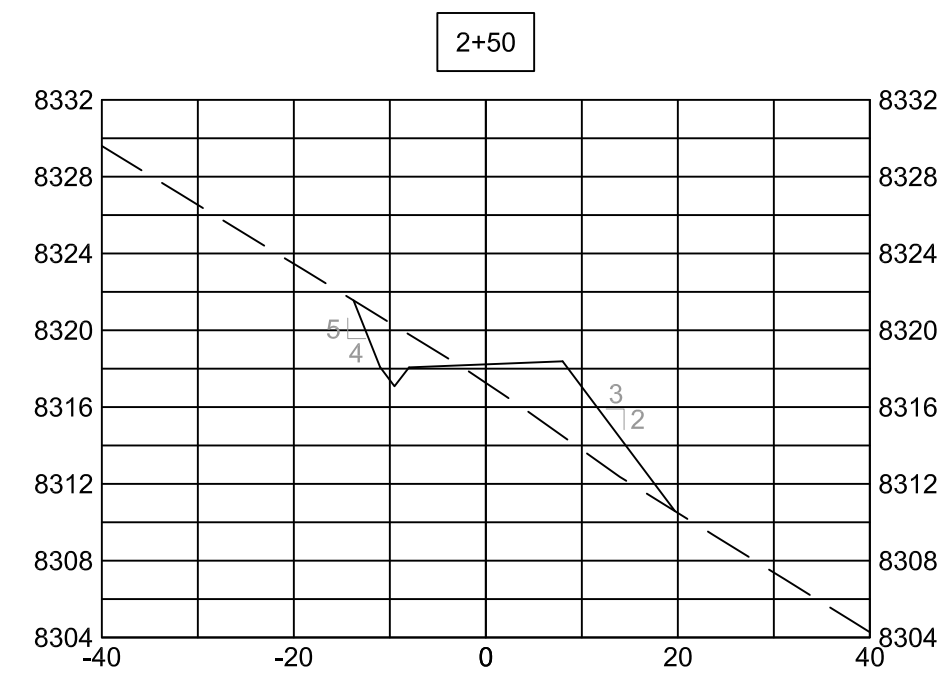
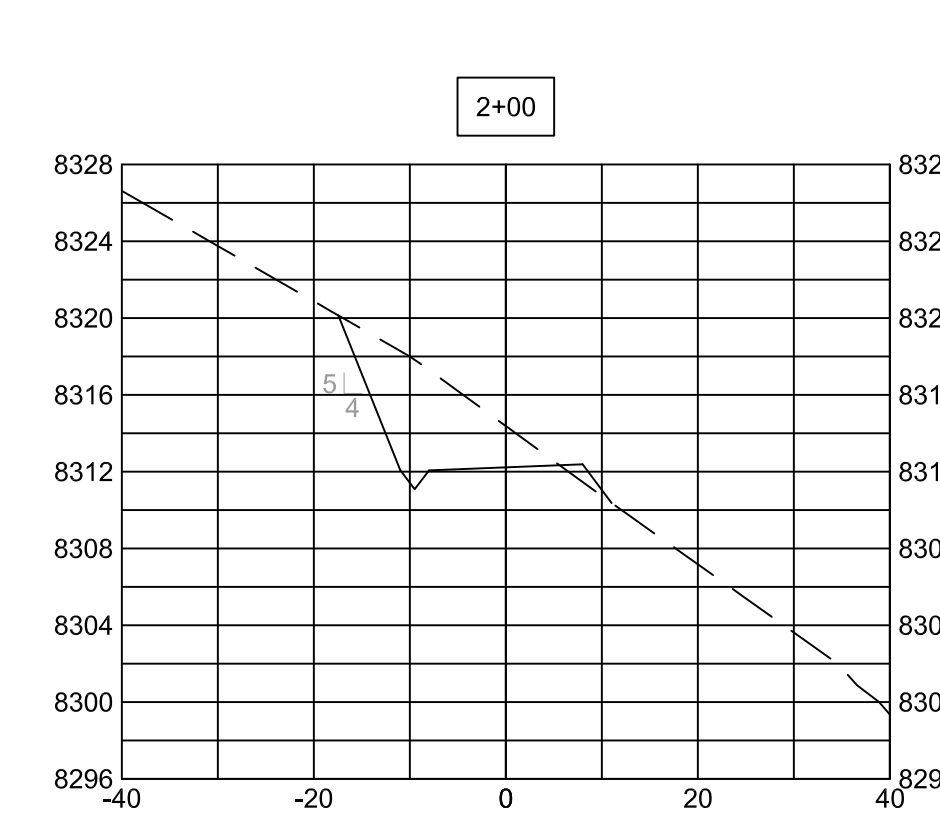
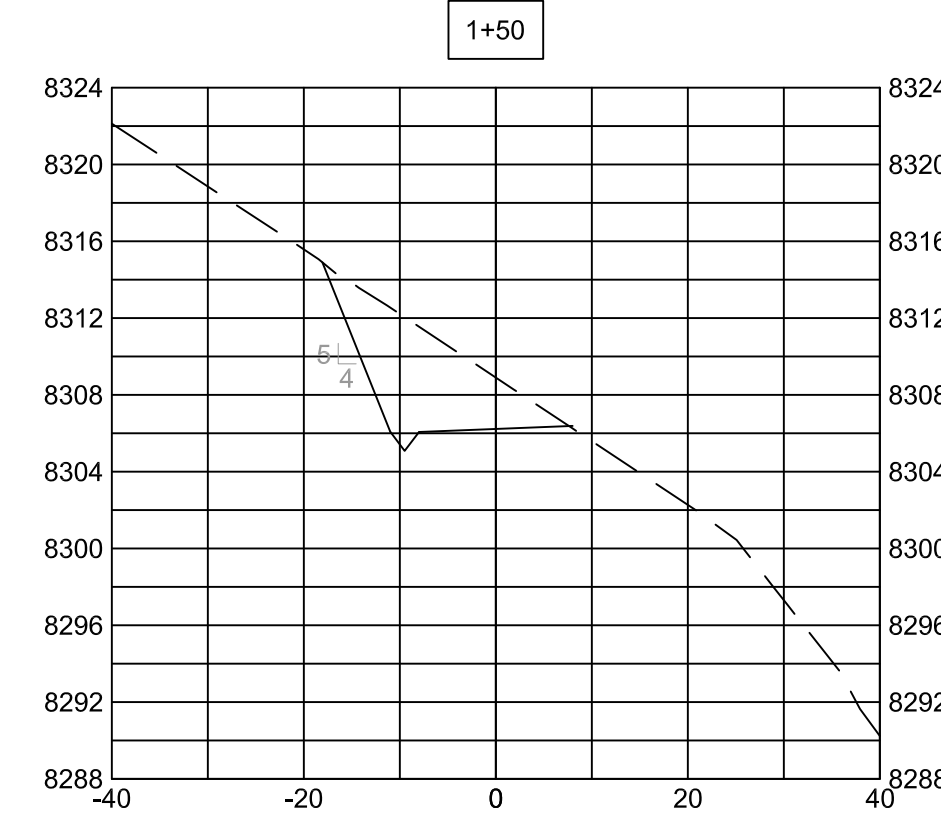
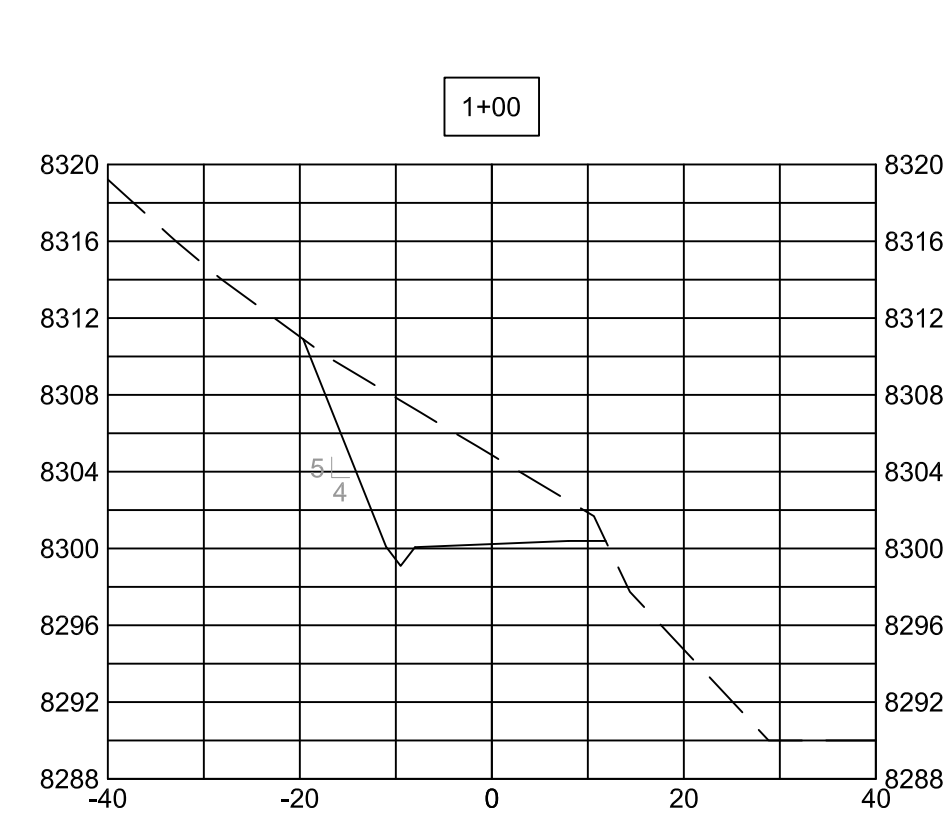
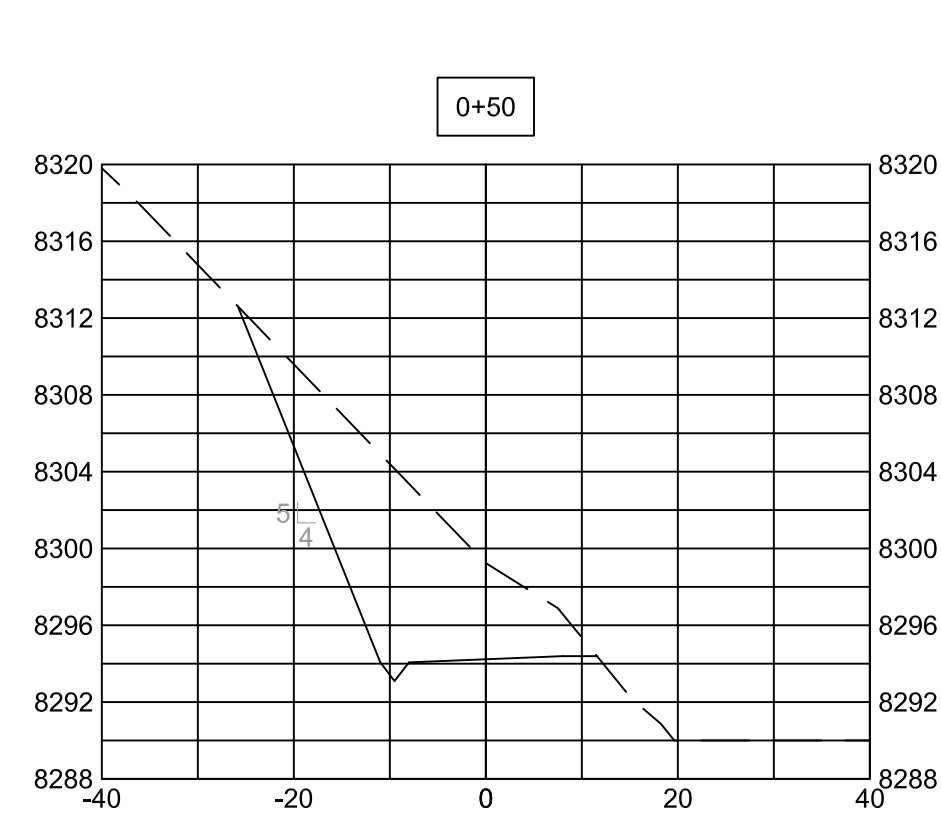
PROFILE AND CROSS SECTIONS
SCALE: AS NOTED



C.4

ODDO RESIDENCE

CROSS SECTIONS



- NOTES
- ALTERNATE 1 (PAVED SURFACE) IS REQUIRED FOR PRIVATE STREETS/ROADS SUBJECT TO THE LAND DEVELOPMENT REGULATION OR WHERE THE DESIGN ADT IS GREATER THAN 150.
 - ALTERNATE 2 (GRAVEL SURFACE) IS PERMITTED FOR DRIVEWAYS AND FOR PRIVATE STREETS/ROADS NOT SUBJECT TO THE LAND DEVELOPMENT REGULATION AND WHERE THE DESIGN ADT IS LESS THAN OR EQUAL TO 150.
 - ADDITIONAL EASEMENTS MAY BE REQUIRED FOR CUT AND FILL SLOPES, DRAINAGE STRUCTURES AND MAINTENANCE.
 - SEE SECTION 3.7.8 FOR ADDITIONAL DESIGN CRITERIA.

DRIVEWAY CROSS SECTIONS
SCALE
H: 1" = 20' V: 1" = 10'

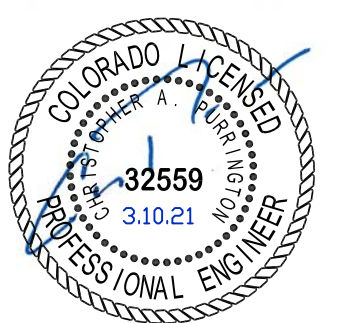
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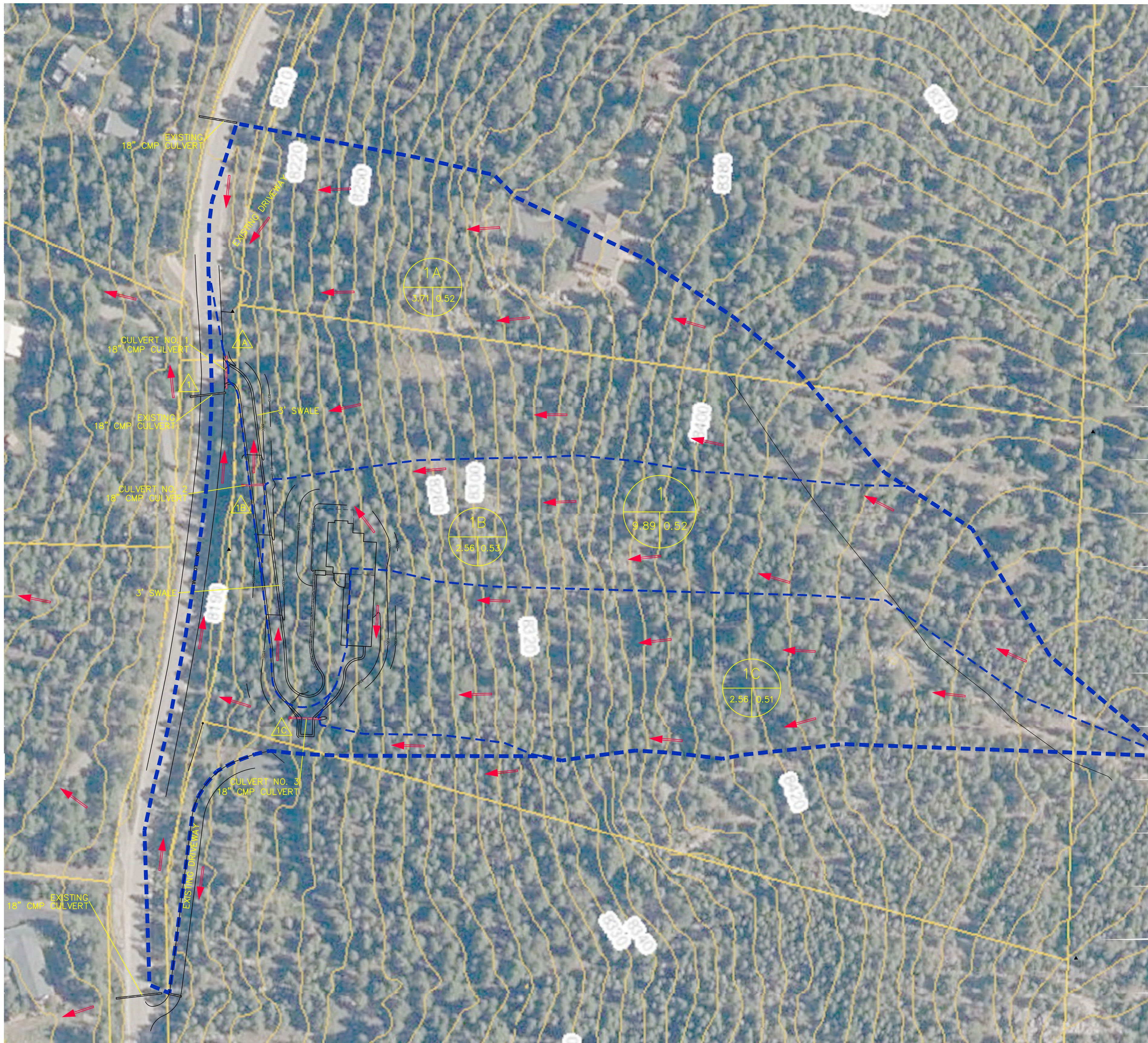
CROSS SECTIONS

SCALE: AS NOTED



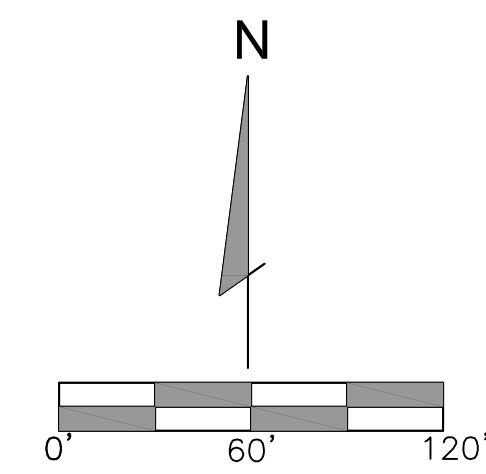
C.5

ODDO RESIDENCE DRAINAGE PLAN



SUMMARY RUNOFF TABLE - PRE-DEVELOPMENT CONDITIONS				
DESIGN POINT	CONTRIBUTING BASIN	CONTRIBUTING AREA (AC)	RUNOFF 5-YR (CFS)	RUNOFF 100-YR (CFS)
△	1	9.89	3.83	22.45

SUMMARY RUNOFF TABLE - DEVELOPED CONDITIONS				
DESIGN POINT	CONTRIBUTING BASIN	CONTRIBUTING AREA (AC)	RUNOFF 5-YR (CFS)	RUNOFF 100-YR (CFS)
△	1	9.89	4.19	22.82
△A	1A	3.71	1.65	9.36
△B	1B	2.56	1.18	6.26
△C	1C	2.56	1.02	6.21

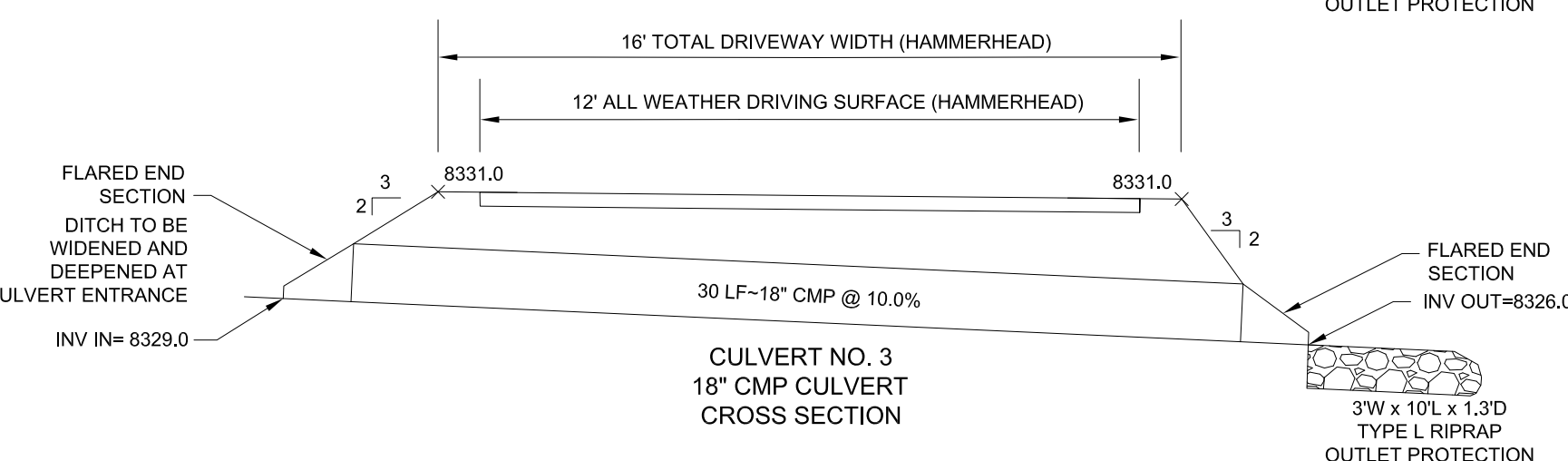
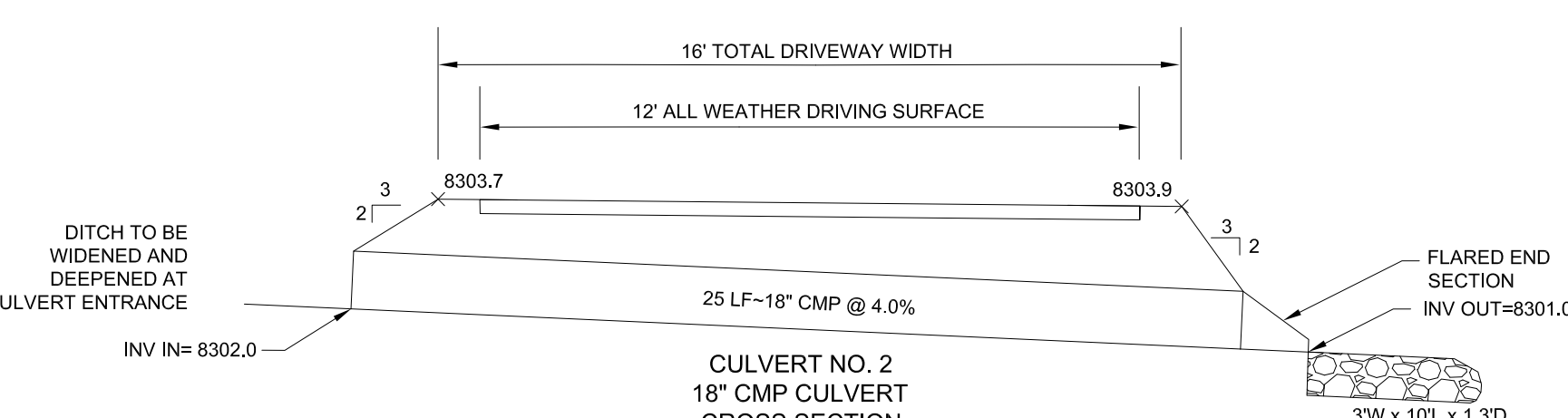
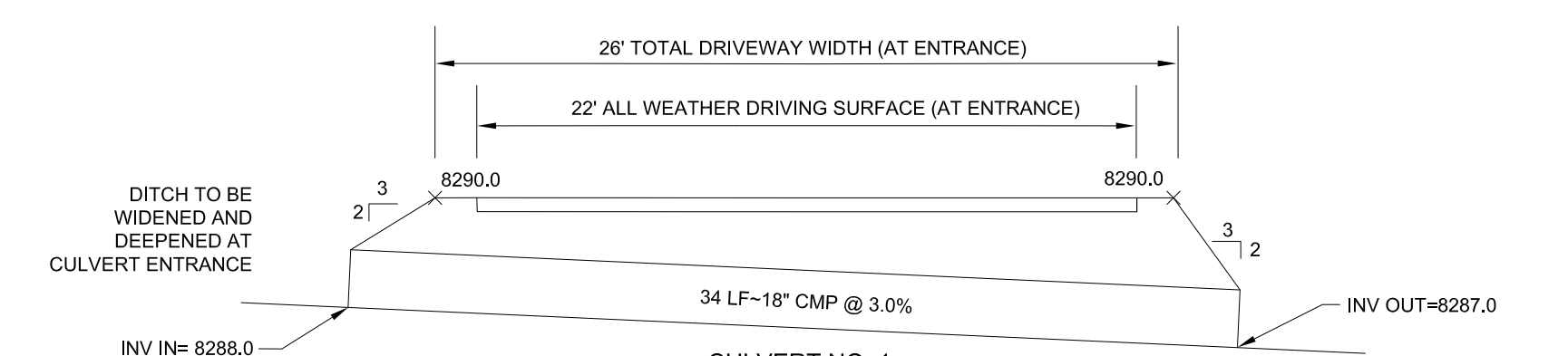
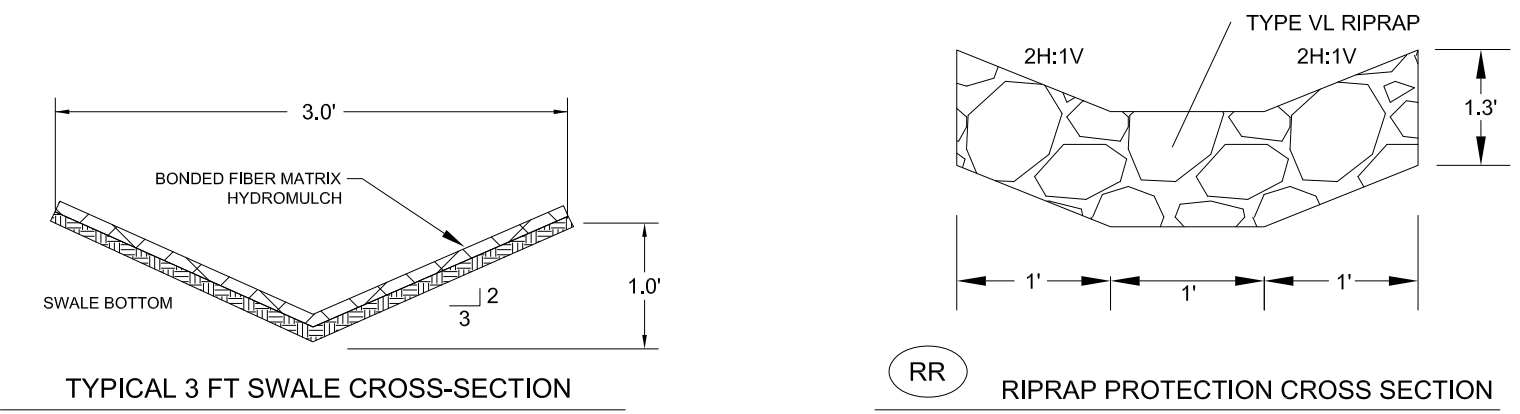


LEGEND

- = DRAINAGE BASIN
- - - = EXISTING 10' CONTOURS
- = PROPOSED DRAINAGE

A = BASIN DESIGNATION
 B = BASIN AREA (ACRES)
 C = C₁₀₀ RUNOFF COEFFICIENT

△ DESIGN POINT

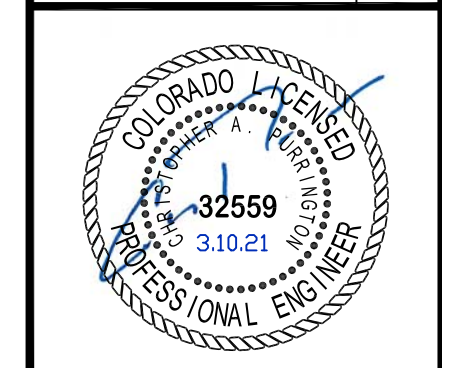


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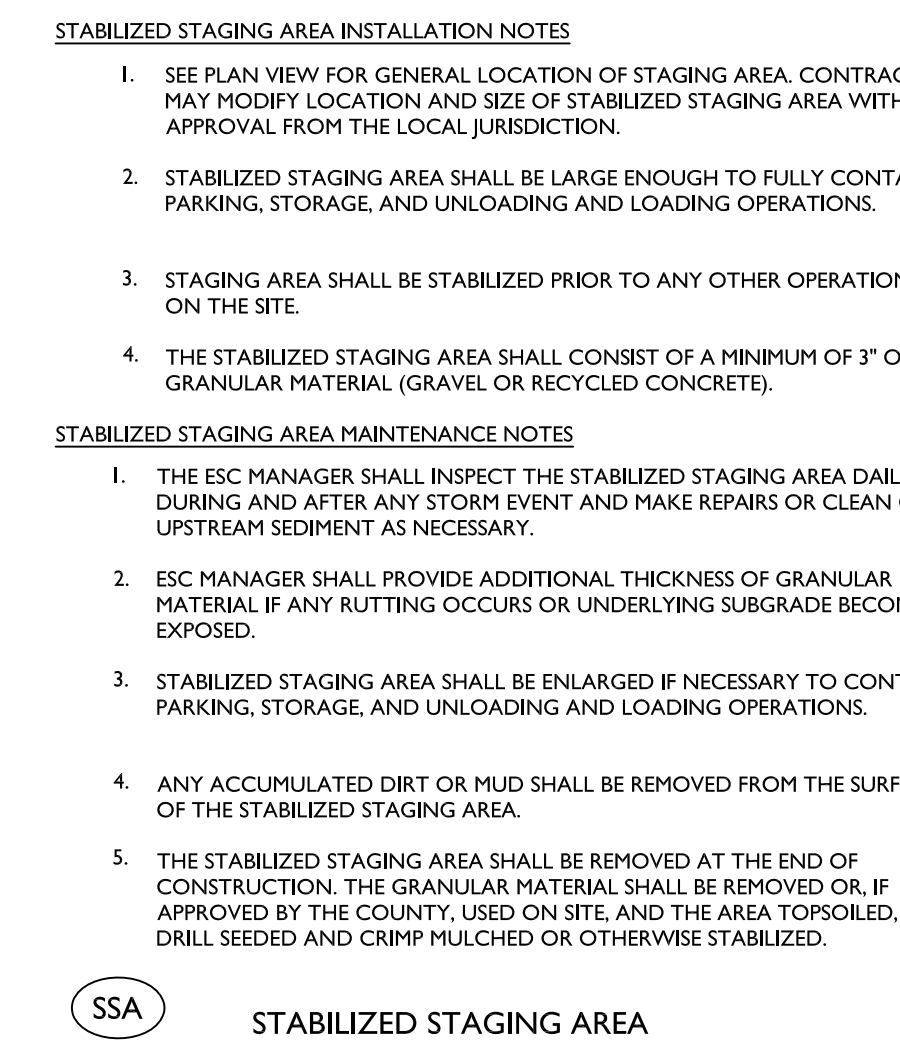
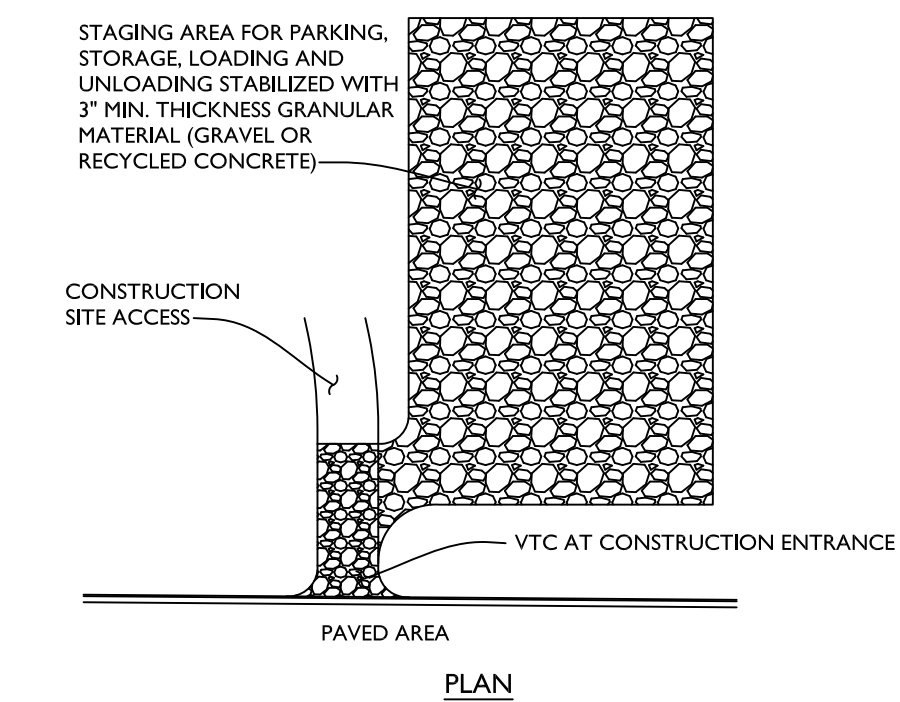
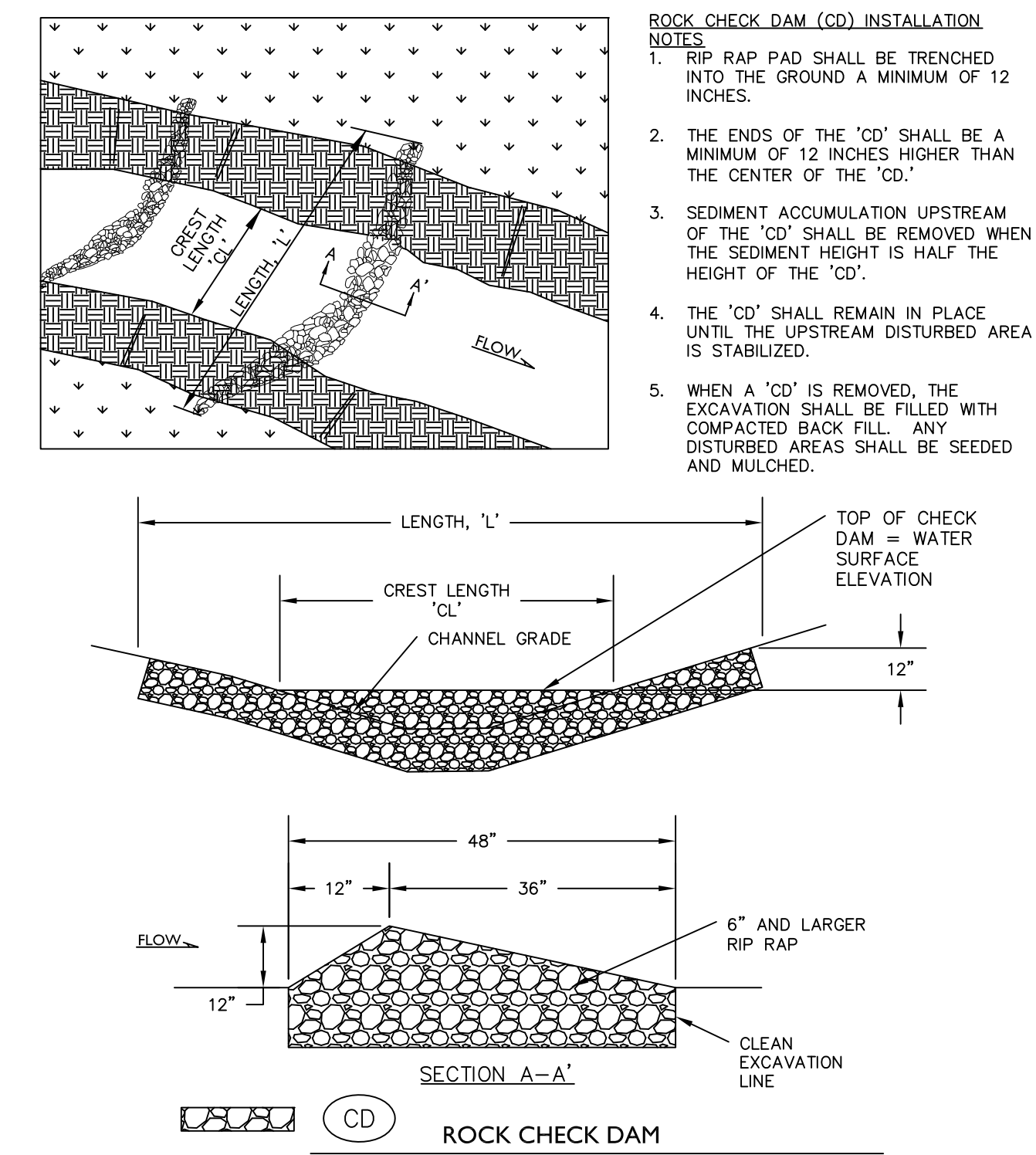
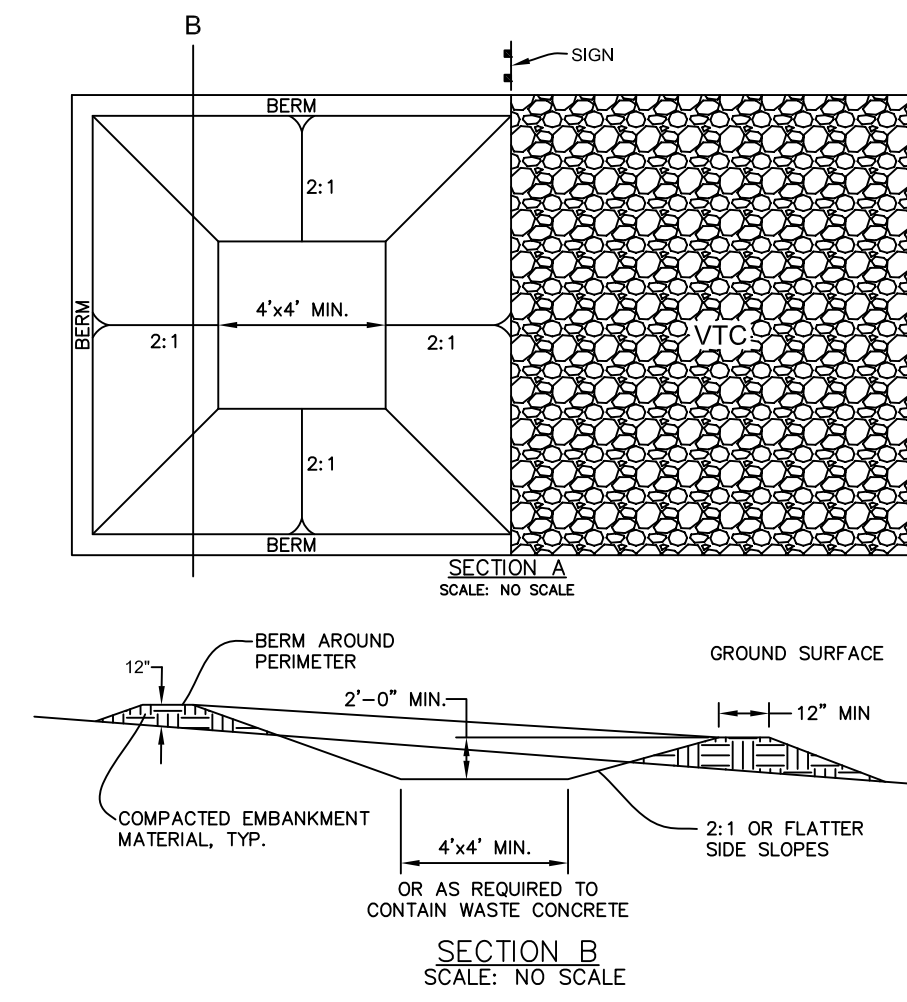
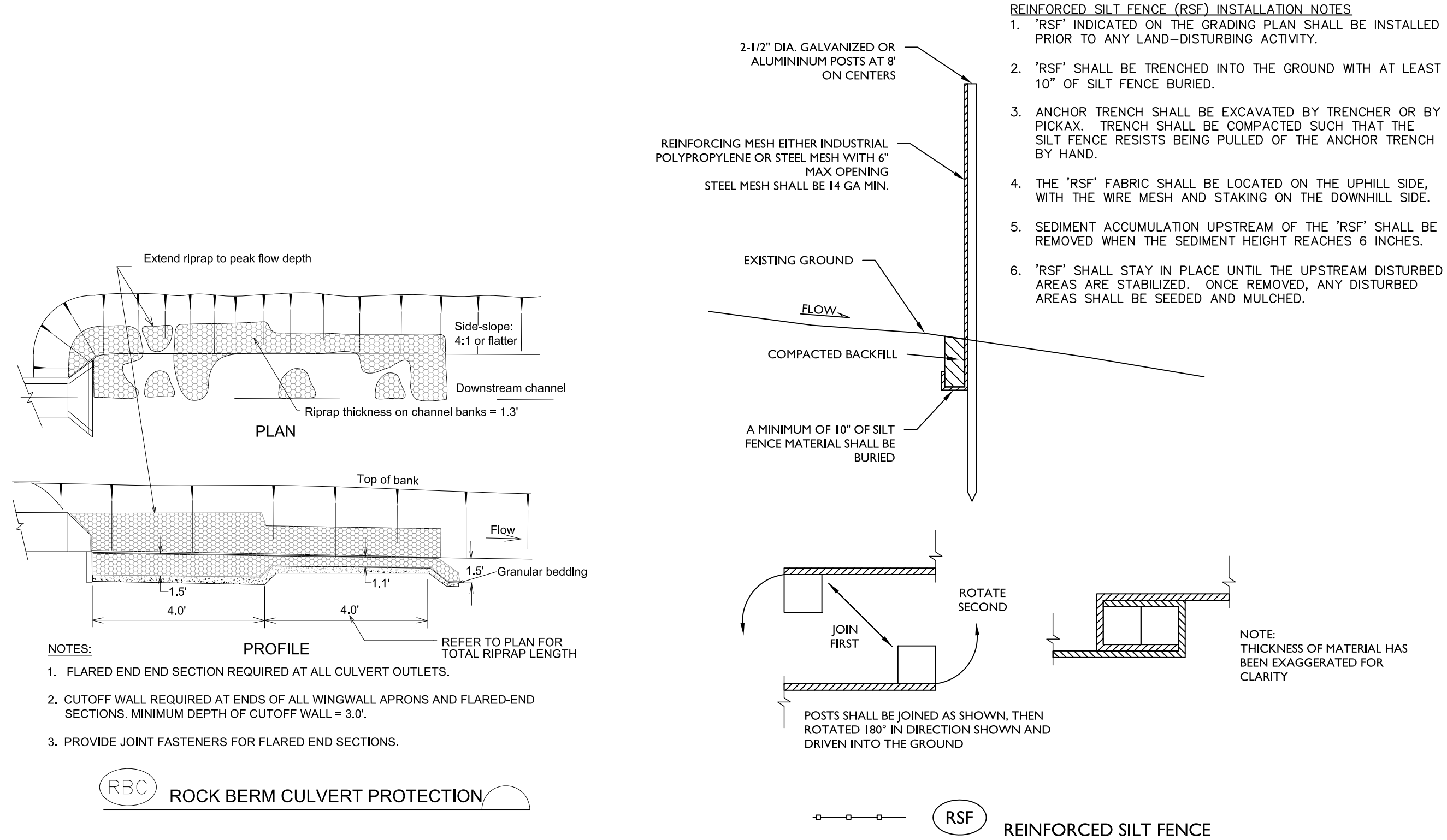
DRAINAGE PLAN
SCALE: AS NOTED



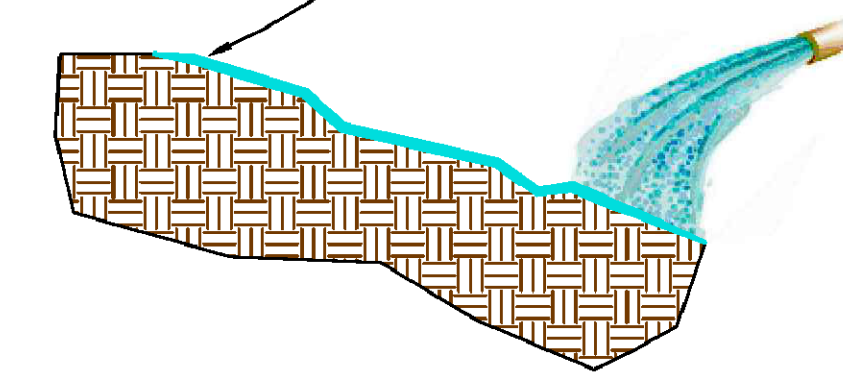
C.6

ODDO RESIDENCE

EROSION CONTROL DETAILS



HYDROCOVER™ BFM HYDRAULICALLY APPLIED EROSION CONTROL PRODUCT (HECP)



APPLICATION RATES:
These application rates are for standard conditions. Designers may wish to increase application rates on rough surfaces. For additional details including mixing ratios/loading rates for specific machine sizes and visual keys for proper application, please consult Profile® Application Guide for BFM.

Slope Gradient / Condition	Rate (lb/ac)	Rate (kg/ha)
< 4H to 1V	2,500	2,800
> 4H to 1V and ≤ 3H to 1V	3,000	3,400
> 3H to 1V and ≤ 2H to 1V	3,500	3,900
> 2H to 1V and ≤ 1H to 1V	4,000	4,500
> 1H to 1V	4,500	5,100
Below ECB or TRM	1,500	1,700

SPECIFICATION: 31 25 14.13 - Hydraulically-Applied Erosion Control: Bonded Fiber Matrix

This section specifies the Hydraulically-applied Erosion Control Product HydroCover™ Bonded Fiber Matrix (BFM). HydroCover BFM is 100% biodegradable, made in the United States and composed of 100% recycled, thermally refined (within a pressurized vessel) virgin wood fibers and wetting agents (including high-viscosity colloidal polysaccharides and cross-linked biopolymers). The BFM is phytosanitized, free from plastic netting, and when cured forms an intimate bond with the soil surface to create a continuous, porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth. The BFM may require a 4-8 hour curing period to achieve maximum performance. All components of the BFM shall be pre-packaged by the Manufacturer to assure both material performance and compliance with product specifications.

1. Thermally Processed* (within a pressurized vessel) Wood Fibers - 90%
*Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 5 minutes at a pressure greater than 50 psi (345 kPa)
2. Wetting Agents (including high-viscosity colloidal polysaccharides and cross-linked biopolymers) - 10%

INSTALLATION:
Strictly comply with equipment manufacturer's installation instructions and recommendations. Use approved hydroseeding machines with fan-type nozzle (50-degree tip). To achieve optimum soil surface coverage, apply BFM from opposing directions to soil surface. Rough surfaces (rocky terrain, cat tracked and rippled soils) may require higher application rates to achieve 100% cover. Slope interruption devices or water diversion techniques are recommended when slope lengths (on a 3H:1V gradient) exceed 75 feet (23 m). Slope interruption intervals may need to be decreased based on steeper slopes or other site conditions. BFM is not recommended for channels or areas with concentrated water flow unless used in conjunction with a rolled erosion control product designed to accommodate the anticipated hydraulic conditions. Unless approved by the Manufacturer, no chemical additives with the exception of fertilizer, soil neutralizers and biostimulant materials should be added to this product. To ensure proper application rates, measure and stake area. For maximum performance, apply BFM in a two-step process as follows:

1. Step One: Apply fertilizer with specified prescriptive agronomic formulations and 50% of seed with a small amount of BFM for visual metering.
2. Step Two: Mix balance of seed and apply BFM at a rate of 50 lb per 125 gallons (23 kg/475 liters) of water over freshly seeded surfaces. Confirm loading rates with equipment manufacturer. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.

SEE COMPREHENSIVE CSI FORMATTED SPECIFICATION FOR FURTHER DETAILS

PLEASE NOTE THAT THE INFORMATION PRESENTED HEREIN IS GENERAL INFORMATION ONLY. IT IS FOR CONCEPTUAL USE ONLY AND NOT INTENDED TO BE USED FOR CONSTRUCTION. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE ITS ACCURACY, THIS INFORMATION SHOULD NOT BE USED FOR A SPECIFIC APPLICATION WITHOUT INDEPENDENT PROFESSIONAL EXAMINATION AND VERIFICATION OF ITS SUITABILITY, APPLICABILITY AND ACCURACY.

HydroCover™



HYDROCOVER™ BFM CAD Details Slope

FILE NAME: CAD Details Slope - HydroCover BFM.dwg
CONTACT: 800-508-9881 (US & Canada)
+1-847-215-1144 (International)



WEB SITE: www.profileproducts.com

Solutions for your Environment™

DRAWN BY: MDR DATE: 04/14/10 SCALE: NOT TO SCALE
CHECKED BY: RPH DATE: 04/11/17 SHEET 1 OF 1

REVISION	DATE	BY	CP
1	3.10.21	JEFFCO	COMMENTS 1,2,7,21

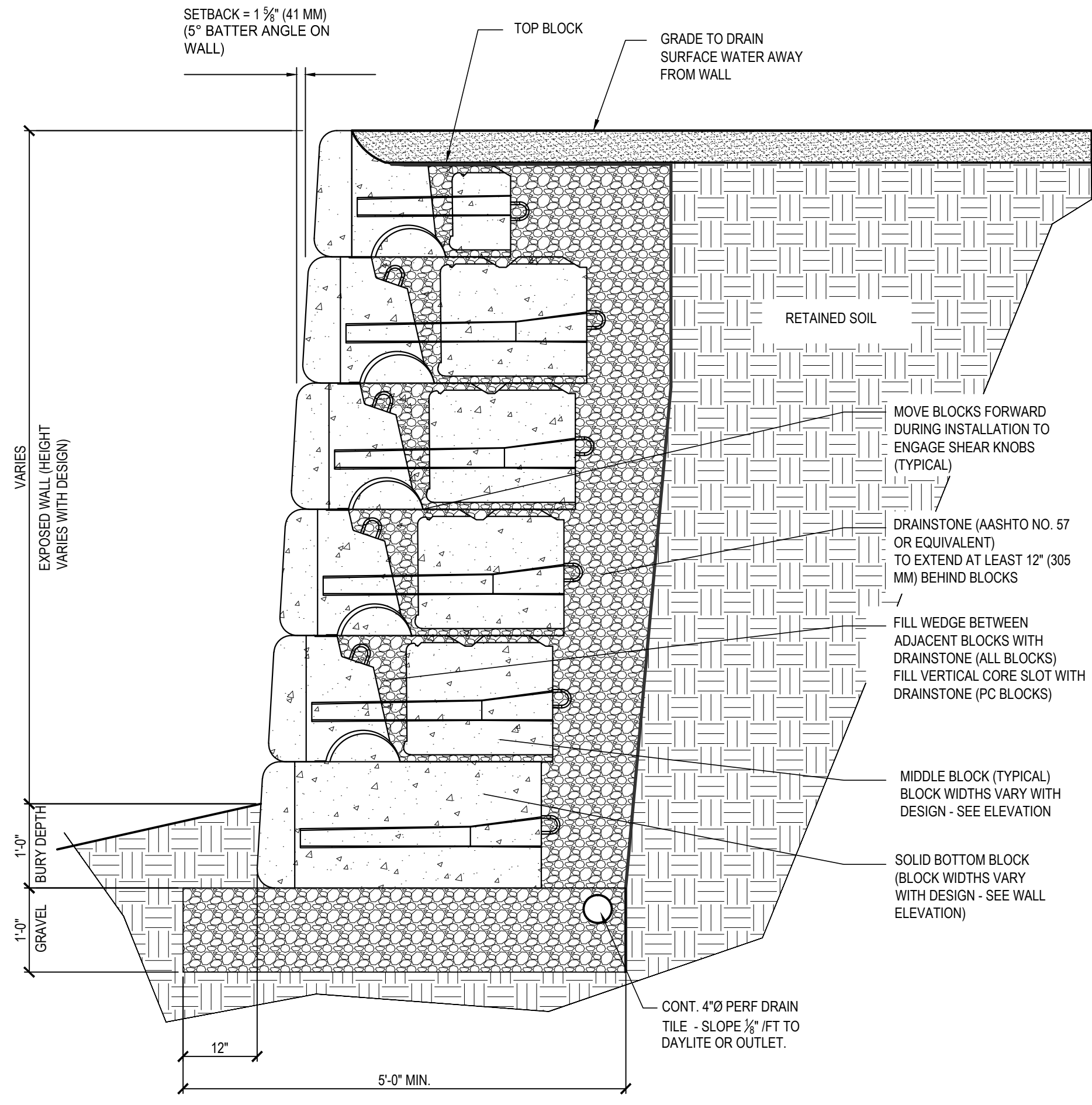
ODDO RESIDENCE
8684 ARMADILLO TRAIL
EVERGREEN, COLORADO
JEFFERSON COUNTY

PURRINGTON CIVIL LLC
1289 WASHINGTON AVENUE
SUITE 280
GOLDEN, CO 80401
Phone: 303.956.8553
www.PurringtonCivil.com

EROSION CONTROL DETAILS

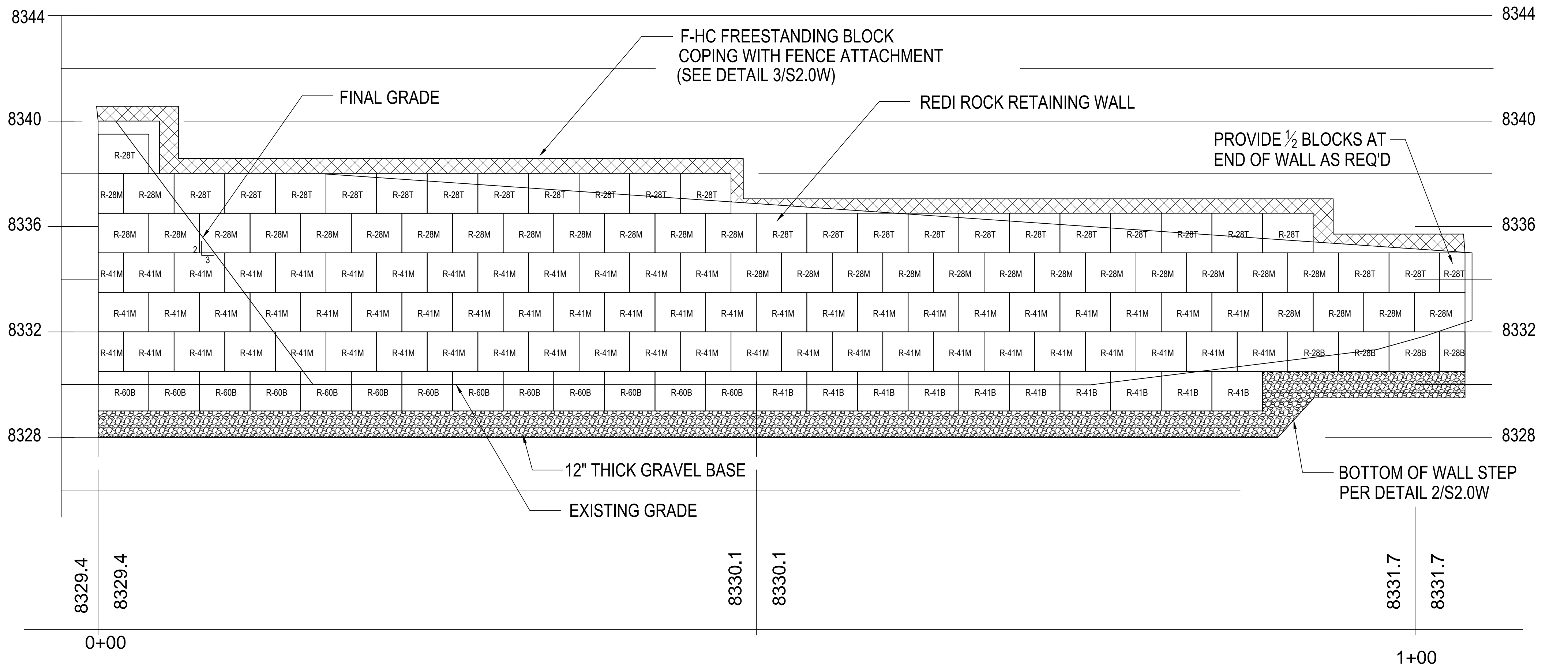
SCALE: N.T.S.

C.7



TYPICAL REDI-ROCK RETAINING WALL SECTION

1 S1.0W SCALE: 3/4" = 1'-0"



A DRIVEWAY RETAINING WALL ELEVATION

REDI-ROCK BLOCK SCHEDULE				
(ALL BLOCKS 'LEDGE STONE' FACE PATTERN)				
TYPE	BLOCK TYPE	HT.	WIDTH	DEPTH
R-28T	TOP	18"	46 1/8" (+/-)	28"
R-28M	MIDDLE	18"	46 1/8" (+/-)	28"
R-28B	BOTTOM	18"	46 1/8" (+/-)	28"
R-41M	MIDDLE	18"	46 1/8" (+/-)	41"
R-41B	BOTTOM	18"	46 1/8" (+/-)	41"
R-60B	BOTTOM	18"	46 1/8" (+/-)	60"

- NOTES:
- SEE CIVIL DRAWINGS FOR PLAN DIMENSIONS
 - SEE SHEET S2.0W FOR ADDITIONAL CONSTRUCTION DETAILS
 - PROVIDE OPENINGS IN WALL FOR DRAINAGE AT 20'-0" o.c. MAX. - SEE DETAIL 1/S2.0W

Bear Creek
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5890 Webster Street, Arvada, CO 80002
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(720) 626-6201 Phone
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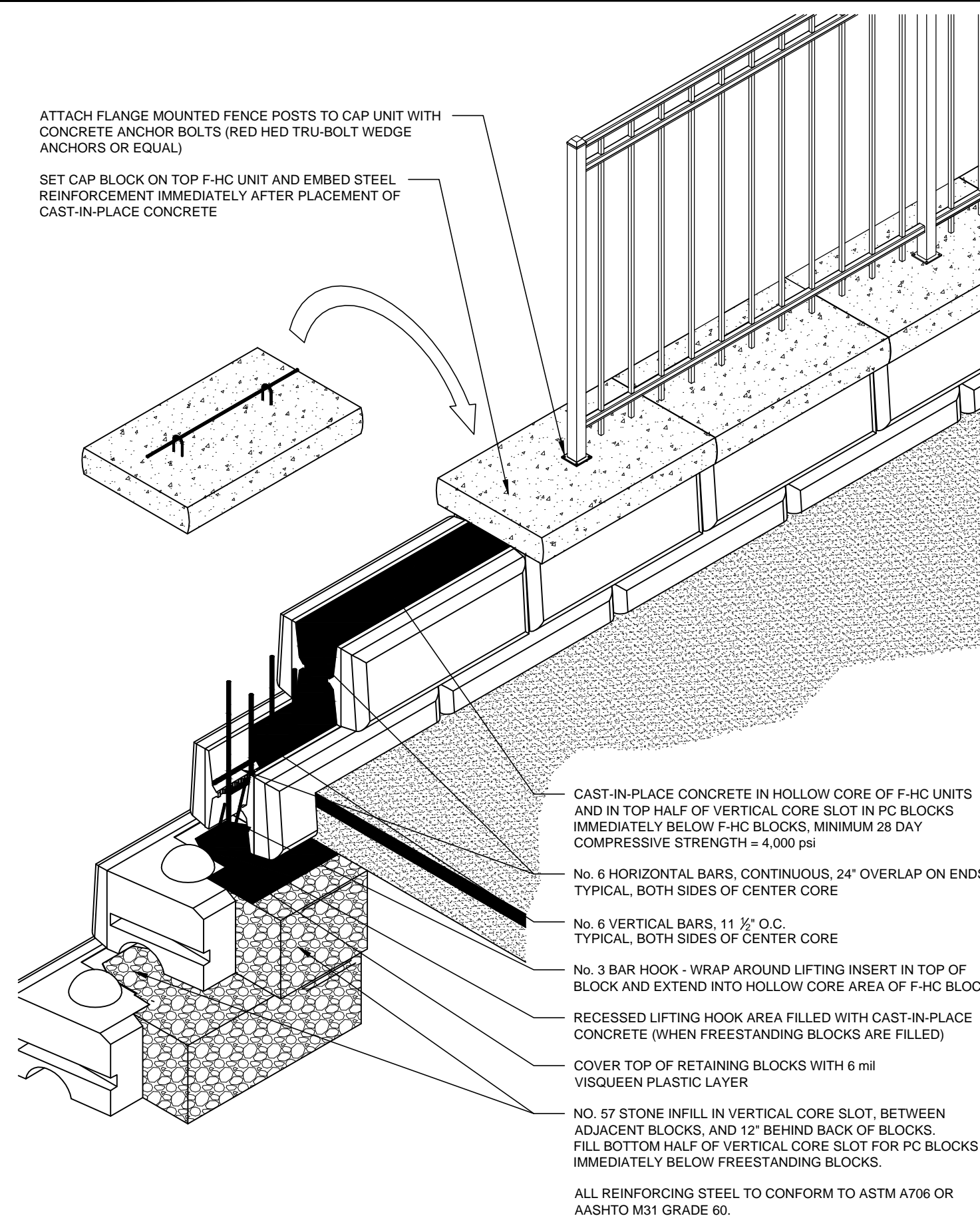
REVISION	ISSUE:	DATE:
	CONSTRUCTION	DEC. 10, 2020

Oddo Residence
8684 Armadillo Trail, Evergreen
Jefferson County, Colorado

DATE: DECEMBER 10, 2020
PROJECT NO: 20.038
DRAWN BY: OWR
CHECKED BY: OWR

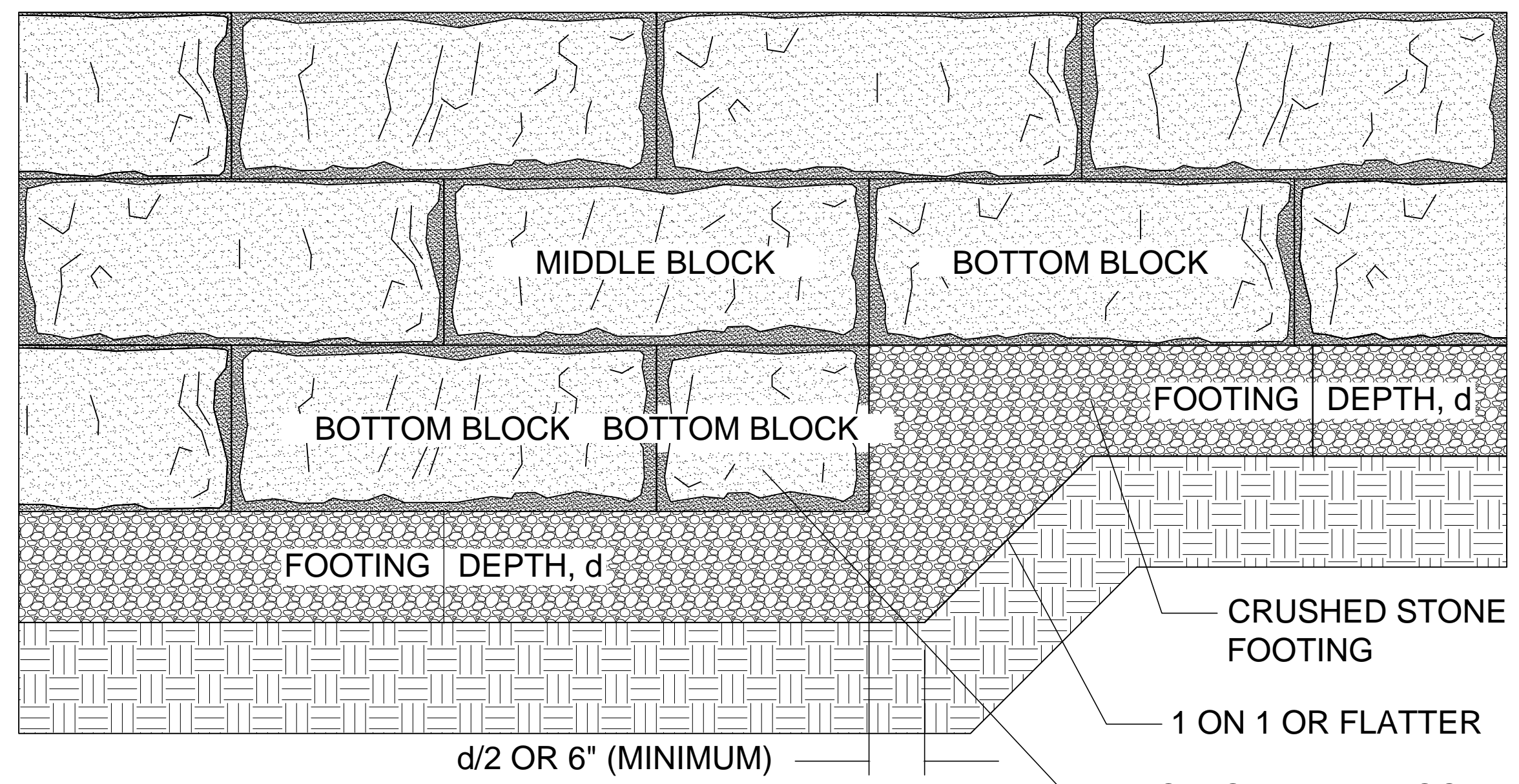
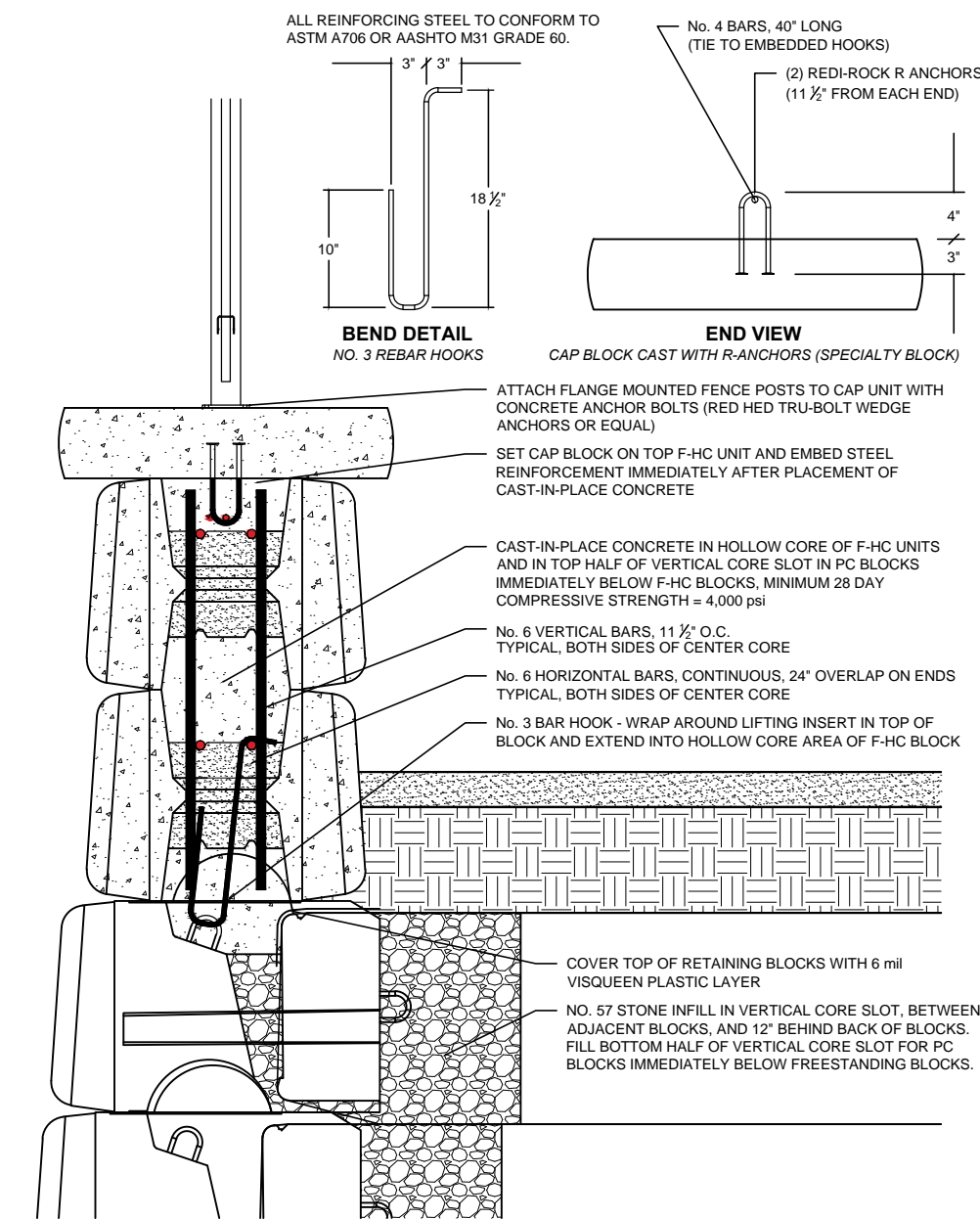
SHEET CONTENTS:
DRIVEWAY
RETAINING
WALLS

S1.0W



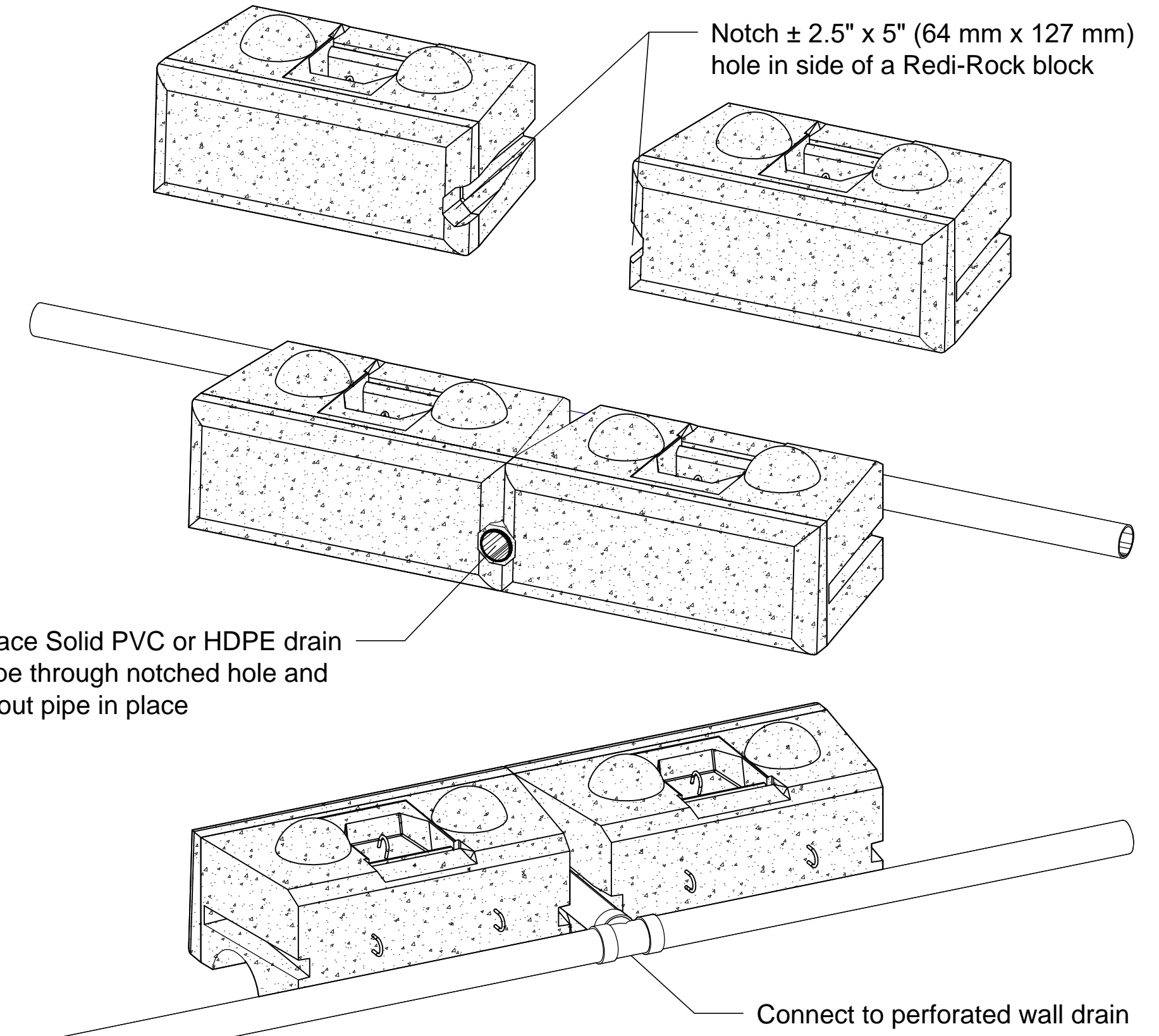
F-HC FREESTANDING BLOCK COPING WITH FENCE ATTACHMENT

3
S2.0W SCALE: N.T.S.



PROFILE VIEW - CRUSHED STONE FOOTING
(No Scale)

2 STEP FOOTING DETAILS
SCALE: N.T.S.



Field Installed Pipe

1 WALL DRAIN WEEP HOLE DETAILS
SCALE: N.T.S.

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SHEET CONTENTS:
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WALLS

S2.0W