



SECTION G

PROJECT PLANS

COUNTY SERVICE AREA (CSA) 70 R -51 OLD TOLL ACCESS ROADS PROJECT

FOR

**COUNTY SERVICE AREA (CSA) 70 R – 51
LAKE ARROWHEAD, CALIFORNIA**

PROJECT NO.: 30.30.0144



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
COUNTY SERVICE AREA R-51, LAKE ARROWHEAD

GENERAL NOTES:

1. ALL FEDERAL, STATE OF CALIFORNIA AND LOCAL REGULATIONS APPLICABLE TO PUBLIC WORKS PROJECTS SHALL BE IN EFFECT.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL AT HIS OWN EXPENSE OR COST CONSTRUCT ALL IMPROVEMENTS IN A MANNER THAT WILL PROTECT ALL UNDERGROUND UTILITIES. THE ENGINEER AND OWNER WILL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 811 BEFORE EXCAVATION.
3. WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS SHALL BE PROTECTED OR SHALL BE REFERENCED AND RESET PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTIONS 8700 TO 8805 (LAND SURVEYORS ACT).
4. CONTRACTOR SHALL NOTIFY SPECIAL DISTRICT DEPARTMENT AT (909) 386-8800 TO COORDINATE INSPECTION AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK. WORK PERFORMED WITHOUT CALLING FOR INSPECTION SHALL BE REJECTED AND MAY BE REQUIRED TO BE REMOVED SOLELY AT THE CONTRACTORS EXPENSE.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN A CURRENT AND APPROVED SET OF THE DISTRICT'S STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
6. EXISTING PAVING, LAWN, SHRUBS, FENCES, ROCK GARDENS, IRRIGATION SYSTEMS, SIGNS, MAILBOXES, AND OTHER IMPROVEMENTS DAMAGED AND/OR REMOVED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF INSPECTOR AND AT NO ADDITIONAL COST TO THE DISTRICT.
7. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. A PERMIT SHALL BE OBTAINED FROM THE SAN BERNARDINO COUNTY TRANSPORTATION DEPARTMENT PRIOR TO ANY WORK ON CMRS ROADS.

ENGINEER'S NOTES:

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE IN WAITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
3. QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.
4. STREET CENTERLINES SHOWN HEREON ARE BASED ON CENTER OF EXISTING PAVEMENT, NOT PER RECORDS DRAWINGS, MONUMENTS OR EXISTING RIGHT OF WAYS. CENTERLINES ARE FOR DESIGN REFERENCE ONLY.

CONSTRUCTION NOTES

- 1 SAWCUT AND JOIN PAVEMENT PER DETAIL ON SHEET 2.
- 2 PUVERIZE, SHAPE AND COMPACT EXISTING PAVEMENT.
- 3 CONSTRUCT 3" A.C. PAVEMENT PER TYPICAL SECTIONS ON SHEET 2.
- 4 ADJUST TO FINISH GRADE, ITEM PER PLAN.
- 5 FEATHER OVERLAY AT ALL DRIVEWAYS AND ROADSIDE PARKING AREAS PER DETAIL ON SHEET 2.
- 98 RESET EXIST. MONUMENT AFTER CONSTRUCTION.
- 99 PROTECT IN PLACE, ITEM PER PLAN.

QUANTITIES:

91 LF
-35,121 SF 38,220 SF
-35,121 SF 38,220 SF
2 EA
15 EA
6 EA
21 EA

NOTE: 03.25.2024 Rudy Guerrero (San Bernardino County - DPW Special Districts) has advised that the quantities of 35,121 SF will be changed to 38,220 SF. This is due to additional roads at Grizzly Access located in between the Old Toll Access Road and New Road (PP 3/5), and Old Access Road 2 (PP 4/5).

LIST OF DRAWINGS:

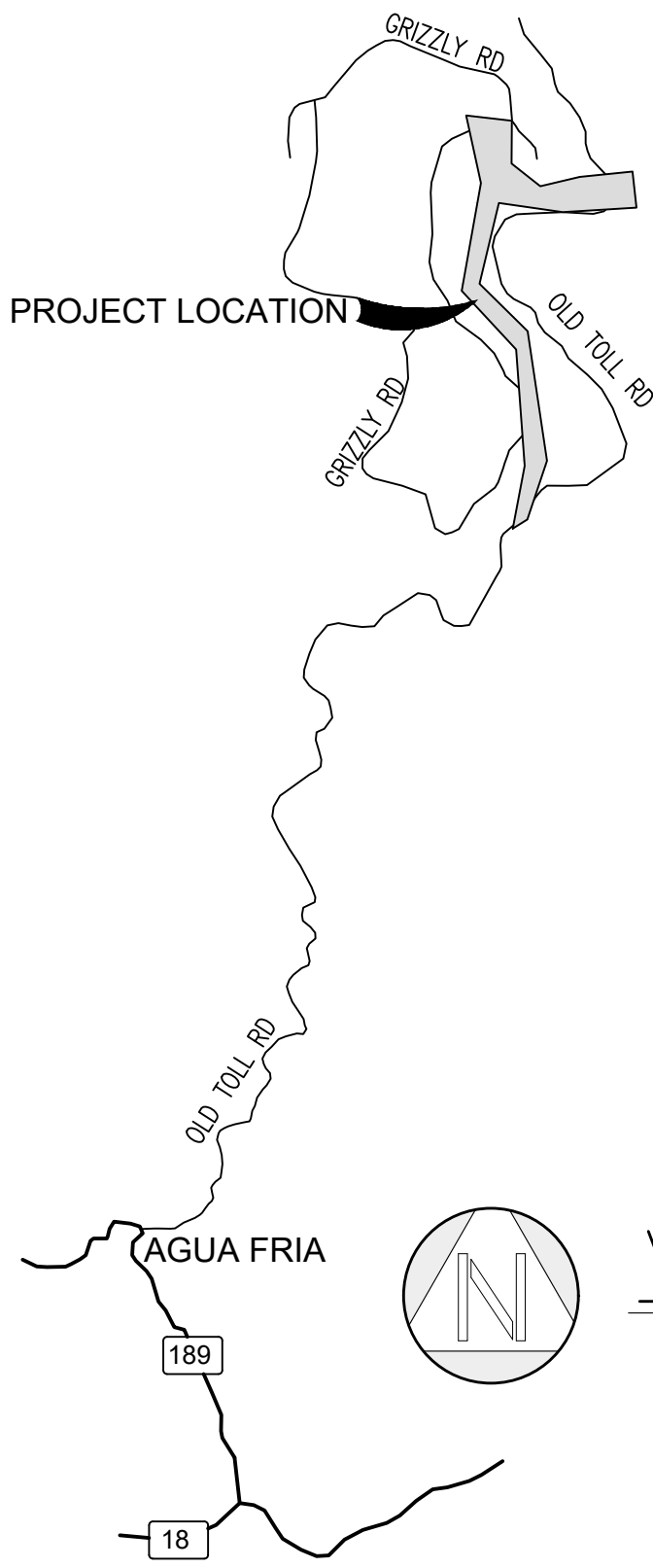
1. TITLE SHEET SHEET 1
2. TYPICAL SECTIONS SHEET 2
3. PLAN AND PROFILE SHEETS 3-5

NOTICE TO CONTRACTOR:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES ON THESE DRAWINGS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. NO CERTIFICATION IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF THIS PLAN BY THE SAN BERNARDINO COUNTY SPECIAL DISTRICTS DEPARTMENT. APPROVAL OF THIS PLAN BY THE SPECIAL DISTRICTS DEPARTMENT DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF LOCATION OF THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE. THE CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT ALL LINES AND STRUCTURES REGARDLESS IF SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL EXPOSE UTILITIES WHERE POTENTIAL CONFLICTS EXIST PRIOR TO EXCAVATION, GRADING OR TRENCHING TO VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS IN THE FIELD. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

LEGEND:

	INDICATES EXISTING CONTOUR
	INDICATES STREET CENTERLINE
	INDICATES BOUNDARY LINE
	INDICATES BOUNDARY LINE
	INDICATES FLOW LINE
	INDICATES EXISTING CHAIN LINK FENCE
A.P.N.	INDICATES ASSESSOR'S PARCEL NUMBER
STA.	INDICATES STATION
C/L	INDICATES CENTERLINE
P/L	INDICATES PROPERTY LINE
(E)	INDICATES EXISTING
(P)	INDICATES PROPOSED
B.C.	INDICATES BEGIN CURVE
E.C.	INDICATES END CURVE
B.C.C.	INDICATES BEGIN COMPOUND CURVE
B.R.C.	INDICATES BEGIN REVERSE CURVE
L	INDICATES LENGTH
R	INDICATES RADIUS
D	INDICATES DELTA
TYP.	INDICATES TYPICAL
DRIVE	INDICATES DRIVEWAY
A.C.	INDICATES ASPHALT PAVEMENT
STD.	INDICATES STANDARD
C.S.D.	INDICATES COMMUNITY SERVICE DEPARTMENT
AGG.	INDICATES AGGREGATE
A.C.	INDICATES ASPHALT CONCRETE
FS	INDICATES FINISH SURFACE
	INDICATES EXIST. PINE TREE AND TRUNK SIZE (IN INCHES).
	INDICATES EXIST. OAK TREE AND TRUNK SIZE (IN INCHES).
	INDICATES EXIST. UNKNOWN TREE AND TRUNK SIZE (IN INCHES).
	INDICATES EXIST. REDWOOD TREE AND TRUNK SIZE (IN INCHES).
	INDICATES EXIST. TREE STUMP AND SIZE (IN INCHES).



VICINITY MAP
NO SCALE

BASIS OF BEARING:

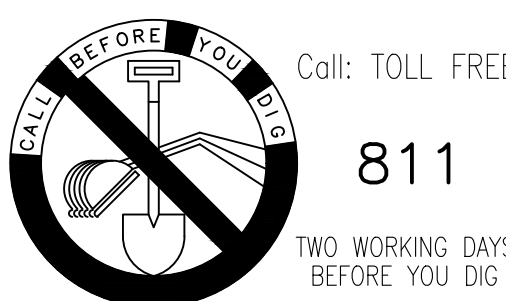
THE BEARINGS SHOWN HEREON ARE BASED THE "CENTERLINE" OLD TOLL ROAD AS SHOWN ON TRACT NO 7201 AS RECORDED IN BOOK 92 PAGES 54 TO 60 SAN BERNARDINO COUNTY RECORDS

BEARING BEING N 32°55'31" E

BENCHMARK:

NGS BM K296 (EV1494)
ELEV=5759.00 (NAVD88)
DESCRIBED BY COAST AND GEODETIC SURVEY 1944
1.1 MILE FROM RIMFOREST
1.1 MILES EAST ALONG STATE HIGHWAY 18 FROM THE POST OFFICE AT RIMFOREST, SAN BERNARDINO COUNTY, 1 FOOT NORTHEAST OF CREST SUMMIT ELEVATION POST 5756, AT THE EDGE OF CANYON, 37 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY, 18 FEET NORTHWEST OF A LARGE ROCK PILE, AND IN THE TOP OF A LARGE BOULDER, A STANDARD DISK, STAMPED K 296 1935.

Underground Service Alert



NOTE:

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISIONS THE PLANS FOR APPROVAL BY THE COUNTY.

DESIGNED BY: J.B.M.

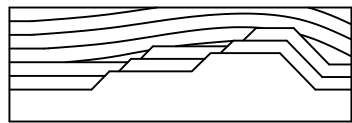
DATE: 07/11/2023

DRAWN BY: A.M.

DATE: 07/11/2023

CHECKED BY: B.K.M.

DATE: 07/11/2023



8061 CHURCH ST. HIGHLAND CA 92346 PO BOX 592
PH: (909) 864-3180, FAX: (909) 864-0850

BERNHARD K. MAYER R.C.E. 36866 07/11/2023
DATE

MARK

REVISIONS

APPR.

DATE

COUNTY OF SAN BERNARDINO PUBLIC WORKS - SPECIAL DISTRICTS
COUNTY SERVICE AREA R-51

APPROVED BY:

SPECIAL DISTRICTS

DATE

COUNTY SERVICE AREA R-49

DATE

COUNTY SERVICE AREA R-51
OLD TOLL ACCESS ROAD, LAKE ARROWHEAD, CALIFORNIA

TITLE SHEET

SCALE:

HORIZ: AS SHOWN

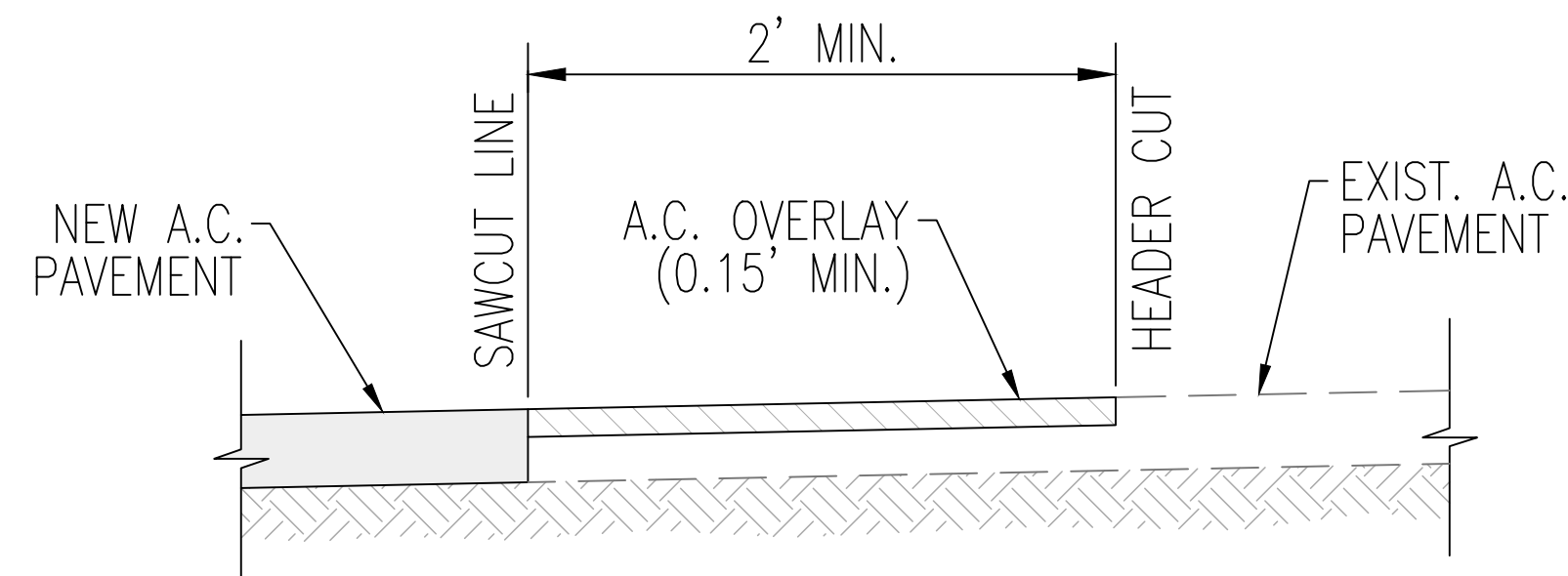
VERT: AS SHOWN

W.O. NO.:

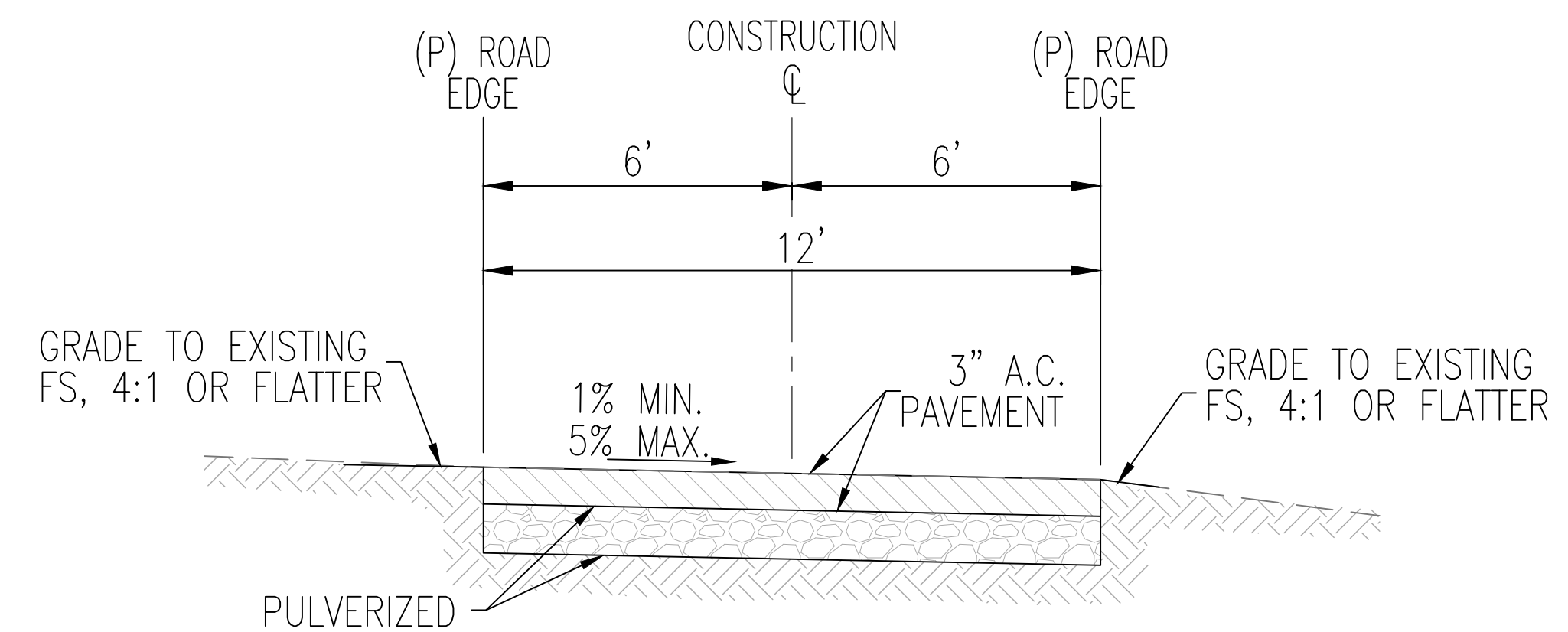
ROAD NO.:

DWG NO.:

SHEET 1 OF 5

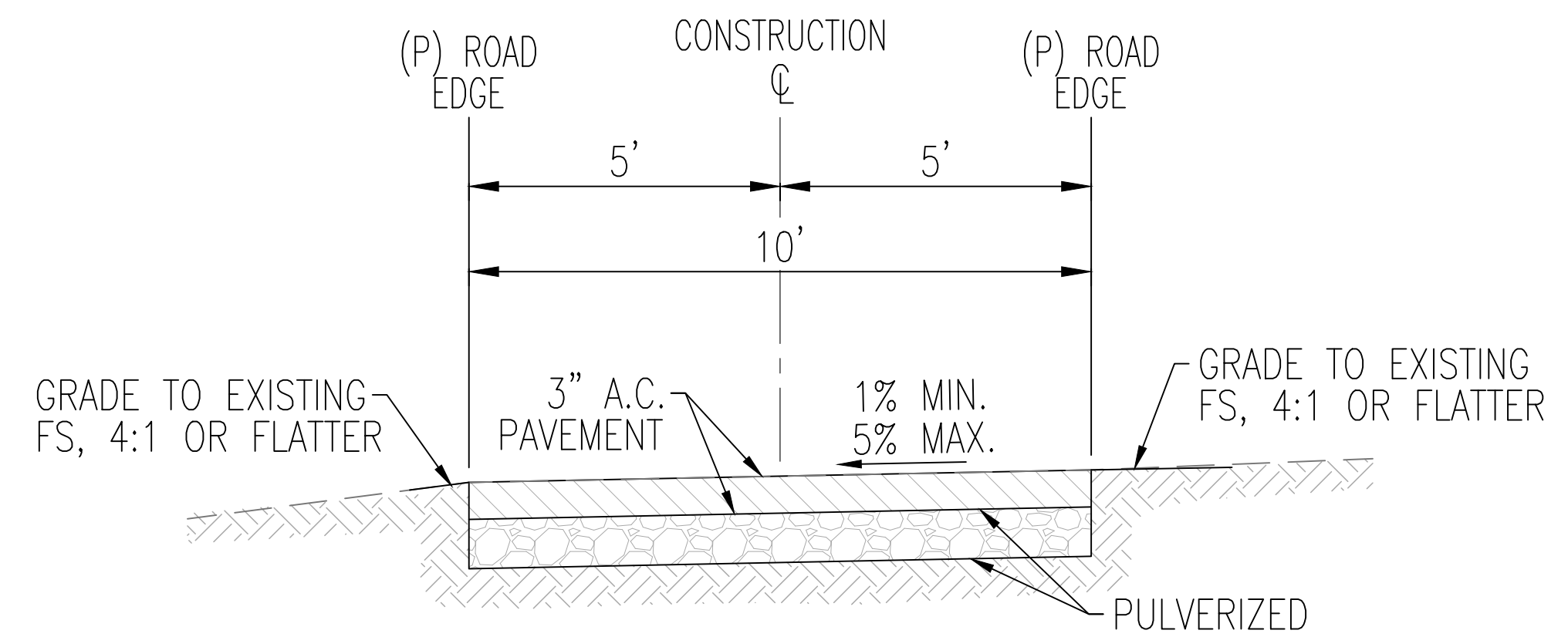


1 SAWCUT & JOIN DETAIL
NOT TO SCALE



3 TYPICAL OLD TOLL ACCESS RD AND OLD TOLL ACCESS RD 2
NOT TO SCALE

NOTE TO CONTRACTOR:
PROPOSED AC PAVED ROADWAY SHALL BE CONSTRUCTED TO ENSURE NO ADVERSE DRAINAGE IMPACT TO THE ADJACENT PROPERTY OWNERS, THE CROSS-SECTION OF THE ROAD CAN BE REVISED AS NEEDED TO MATCH EXISTING ROAD CONDITIONS AND DRAINAGE PATTERNS.

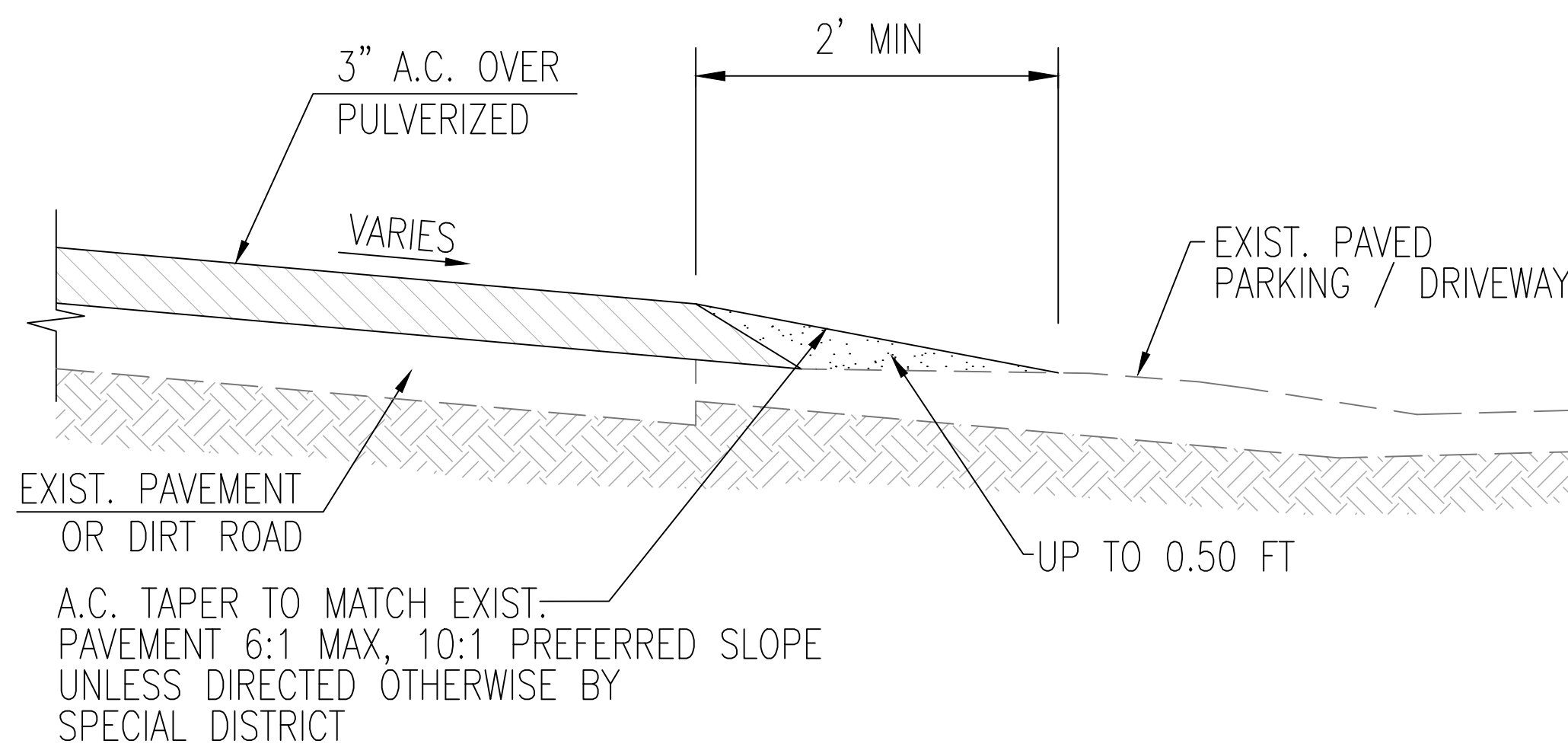


3 TYPICAL GRIZZLY ACCESS RD
NOT TO SCALE

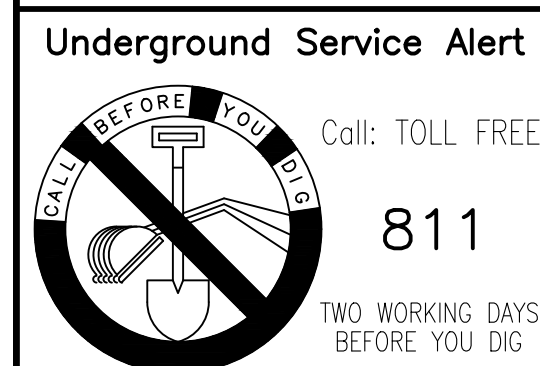
NOTE TO CONTRACTOR:
GRIZZLY ACCESS RD, PROPOSED AC PAVED ROADWAY SHALL BE CONSTRUCTED TO ENSURE NO ADVERSE DRAINAGE IMPACT TO THE ADJACENT PROPERTY OWNERS, THE CROSS-SECTION OF THE ROAD CAN BE REVISED AS NEEDED TO MATCH EXISTING ROAD CONDITIONS AND DRAINAGE PATTERNS.

CONSTRUCTION NOTES

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- 3 CONSTRUCT 3" A.C. PAVEMENT PER TYPICAL SECTIONS ON SHEET 2
- 5 FEATHER OVERLAY AT ALL DRIVEWAYS AND ROADSIDE PARKING AREAS PER DETAIL ON SHEET 2



5 PAVEMENT EDGE TREATMENT
SCALE: 1"=5'



NOTE:
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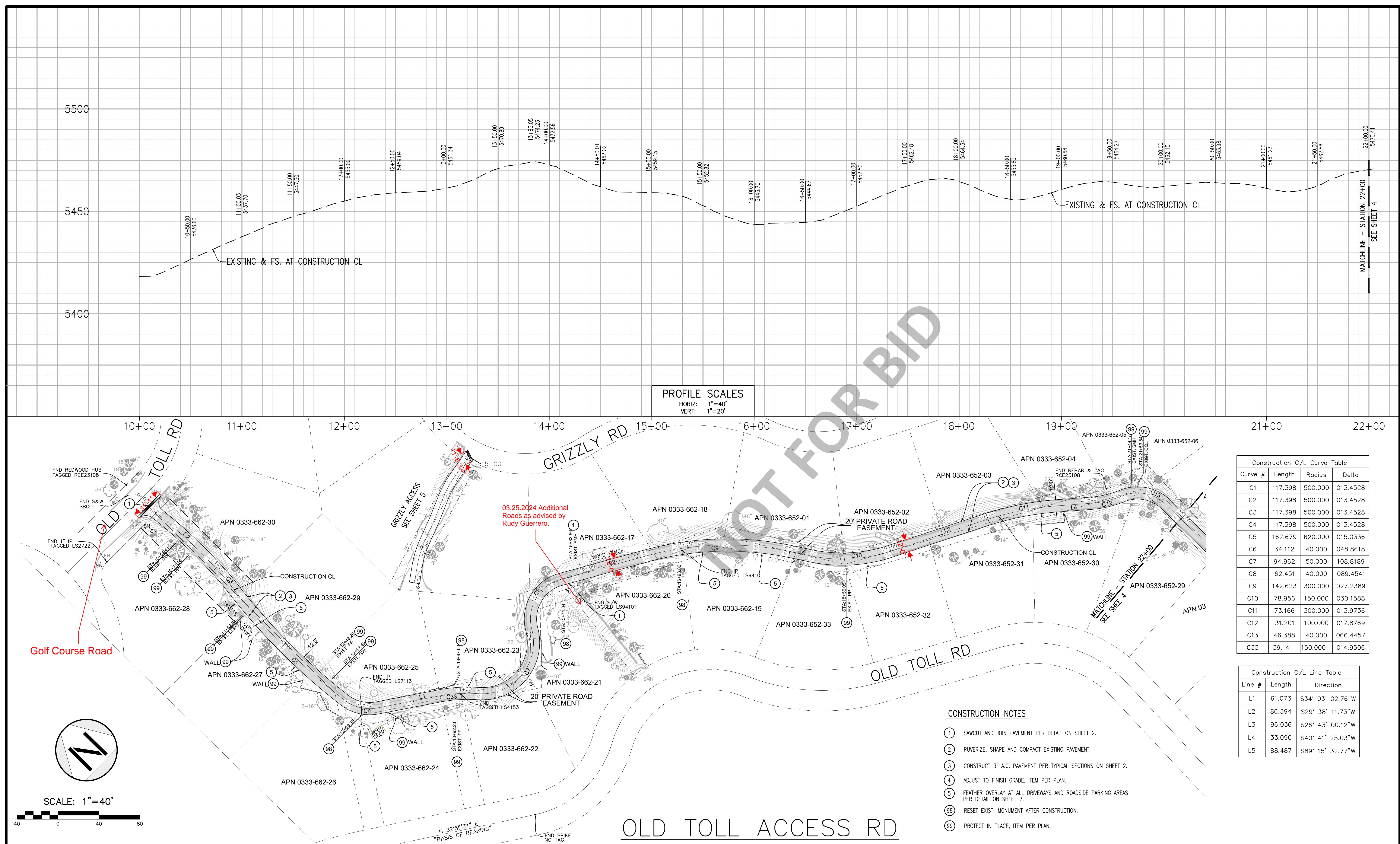
SITETECH INC.
8061 CHURCH ST. HIGHLAND CA 92346 PO BOX 592
PH: (909) 864-3180, FAX: (909) 864-0850
BERNHARD K. MAYER R.C.E. 36866 DATE: 07/11/2023

MARK	REVISIONS	APPR.	DATE

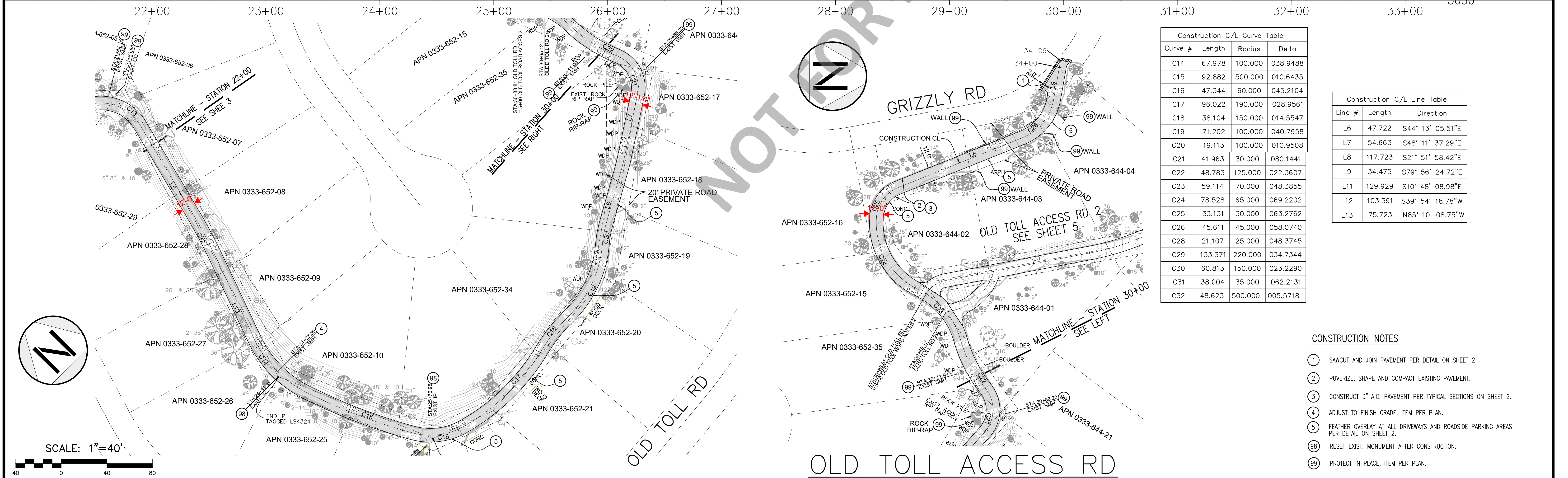
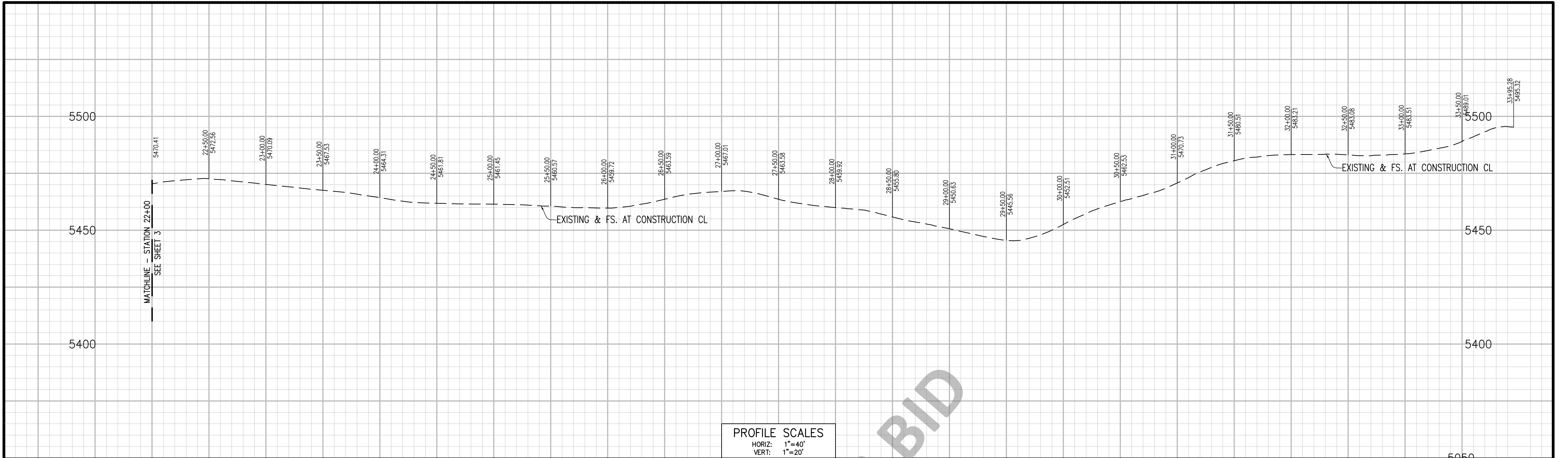
COUNTY OF SAN BERNARDINO PUBLIC WORKS - SPECIAL DISTRICTS
COUNTY SERVICE AREA R-51
APPROVED BY: _____
SPECIAL DISTRICTS _____ DATE _____
COUNTY SERVICE AREA R-49 _____ DATE _____

COUNTY SERVICE AREA R-51
OLD TOLL ACCESS ROAD, LAKE ARROWHEAD, CALIFORNIA
TITLE SHEET
SCALE: _____
HORIZ: **AS SHOWN** VERT: **AS SHOWN**

W.O. NO.: _____
ROAD NO.: _____
DWG NO.: _____
SHEET **2** OF **5**



<p>Underground Service Alert</p> <p>NOTE: THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.</p> <p>DESIGNED BY: J.B.M. DATE: 07/11/2023</p> <p>DRAWN BY: A.M. DATE: 07/11/2023</p> <p>CHECKED BY: B.K.M. DATE: 07/11/2023</p>		<p>811 TWO WORKING DAYS BEFORE YOU DIG</p>		<p>REGISTERED PROFESSIONAL CIVIL ENGINEER BERNARD K. MAYER No. 36866 Exp. 6-30-24 STATE OF CALIFORNIA</p>		<p>SITE TECH INC.</p> <p>8061 CHURCH ST. HIGHLAND CA 92346 PO BOX 592 PH: (909) 864-3180, FAX: (909) 864-0850</p> <p>BERNHARD K. MAYER R.C.E. 36866 07/11/2023 DATE</p>		<p>MARK REVISIONS</p>		<p>APPR. DATE</p>		<p>COUNTY OF SAN BERNARDINO PUBLIC WORKS - SPECIAL DISTRICTS COUNTY SERVICE AREA R-51</p> <p>APPROVED BY: _____ DATE _____</p> <p>SPECIAL DISTRICTS _____ DATE _____</p> <p>COUNTY SERVICE AREA R-49 _____ DATE _____</p>		<p>COUNTY SERVICE AREA R-51 OLD TOLL ACCESS ROAD, LAKE ARROWHEAD, CALIFORNIA</p> <p>PLAN AND PROFILE</p> <p>SCALE: HORIZ: AS SHOWN VERT: AS SHOWN</p>		<p>W.O. NO.: _____</p> <p>ROAD NO.: _____</p> <p>DWG NO.: _____</p> <p>SHEET 3 OF 5</p>	
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Construction C/L Curve Table			
Curve #	Length	Radius	Delta
C14	67.978	100.000	038.9488
C15	92.882	500.000	010.6435
C16	47.344	60.000	045.2104
C17	96.022	190.000	028.9561
C18	38.104	150.000	014.5547
C20	19.113	100.000	040.7958
C21	41.963	30.000	080.1441
C22	48.783	125.000	022.3607
C23	59.114	70.000	048.3855
C24	78.528	65.000	069.2202
C25	33.131	30.000	063.2762
C26	45.611	45.000	058.0740
C28	21.107	25.000	048.3745
C29	133.371	220.000	034.7344
C30	60.813	150.000	023.2290
C31	38.004	35.000	062.2131
C32	48.623	500.000	005.5718

Construction C/L Line Table		
Line #	Length	Direction
L6	47.722	S44° 13' 05.51"E
L7	54.663	S48° 11' 37.29"E
L8	117.723	S21° 51' 58.42"E
L9	34.475	S79° 56' 24.72"E
L11	129.929	S10° 48' 08.98"E
L12	103.391	S39° 54' 18.78"W
L13	75.723	N85° 10' 08.75"W

CONSTRUCTION NOTES

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- 99 PROTECT IN PLACE, ITEM PER PLAN.

Underground Service Alert
Call: TOLL FREE
811
TWO WORKING DAYS
BEFORE YOU DIG

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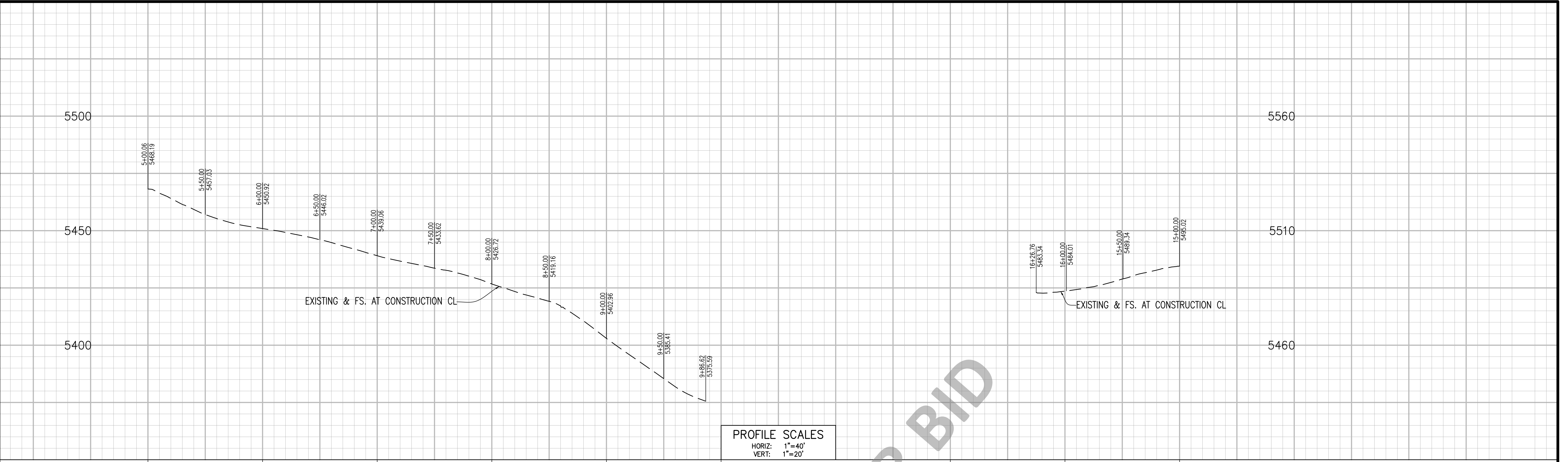
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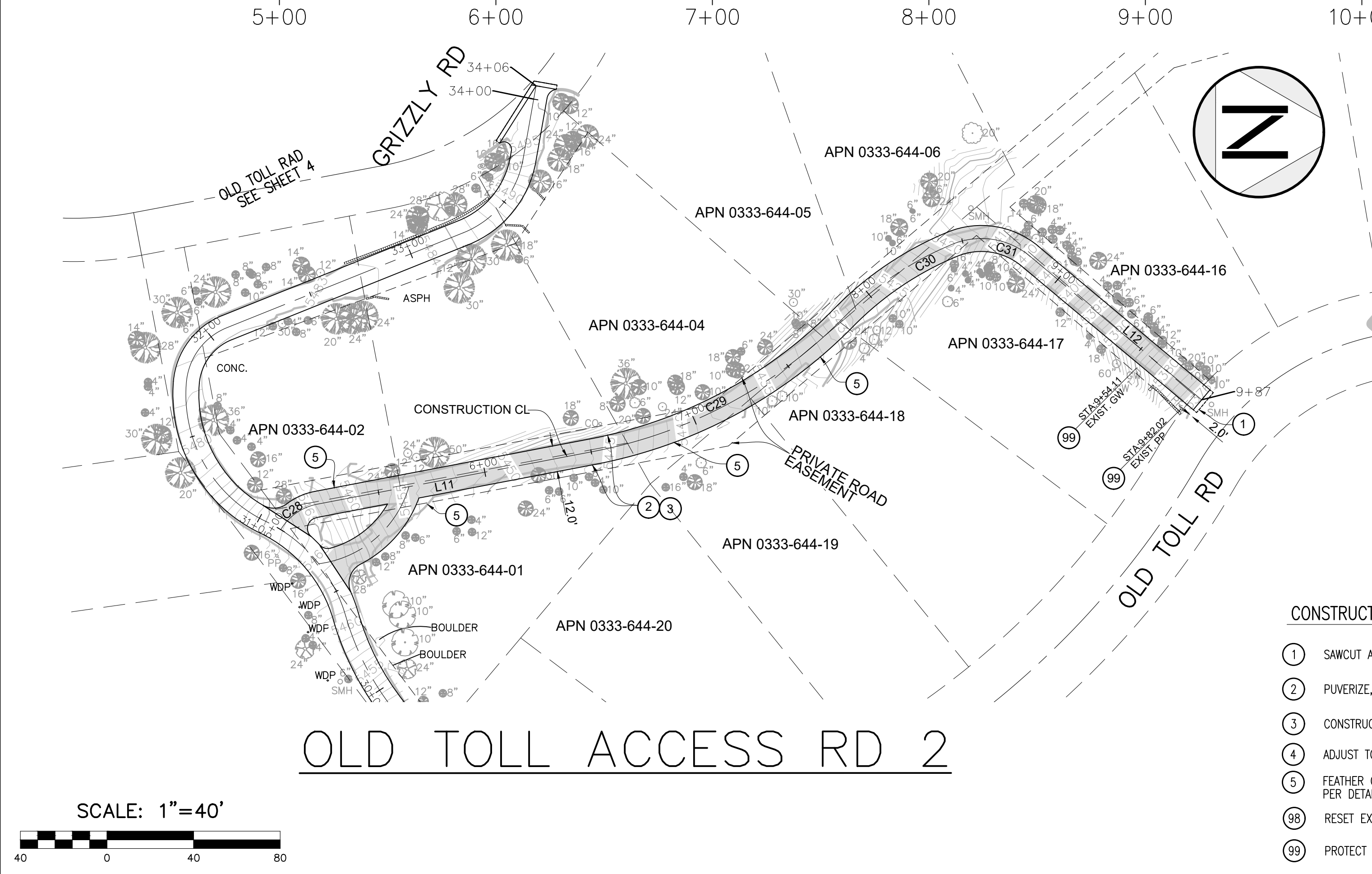
COUNTY OF SAN BERNARDINO PUBLIC WORKS — SPECIAL DISTRICTS
COUNTY SERVICE AREA R-51
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SPECIAL DISTRICTS _____ DATE _____
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COUNTY SERVICE AREA R-51
OLD TOLL ACCESS ROAD, LAKE ARROWHEAD, CALIFORNIA
PLAN AND PROFILE
SCALE: HORIZ: AS SHOWN VERT: AS SHOWN
SHEET 4 OF 5

W.O. NO.:
ROAD NO.:
DWG NO.:
SHEET 4 OF 5



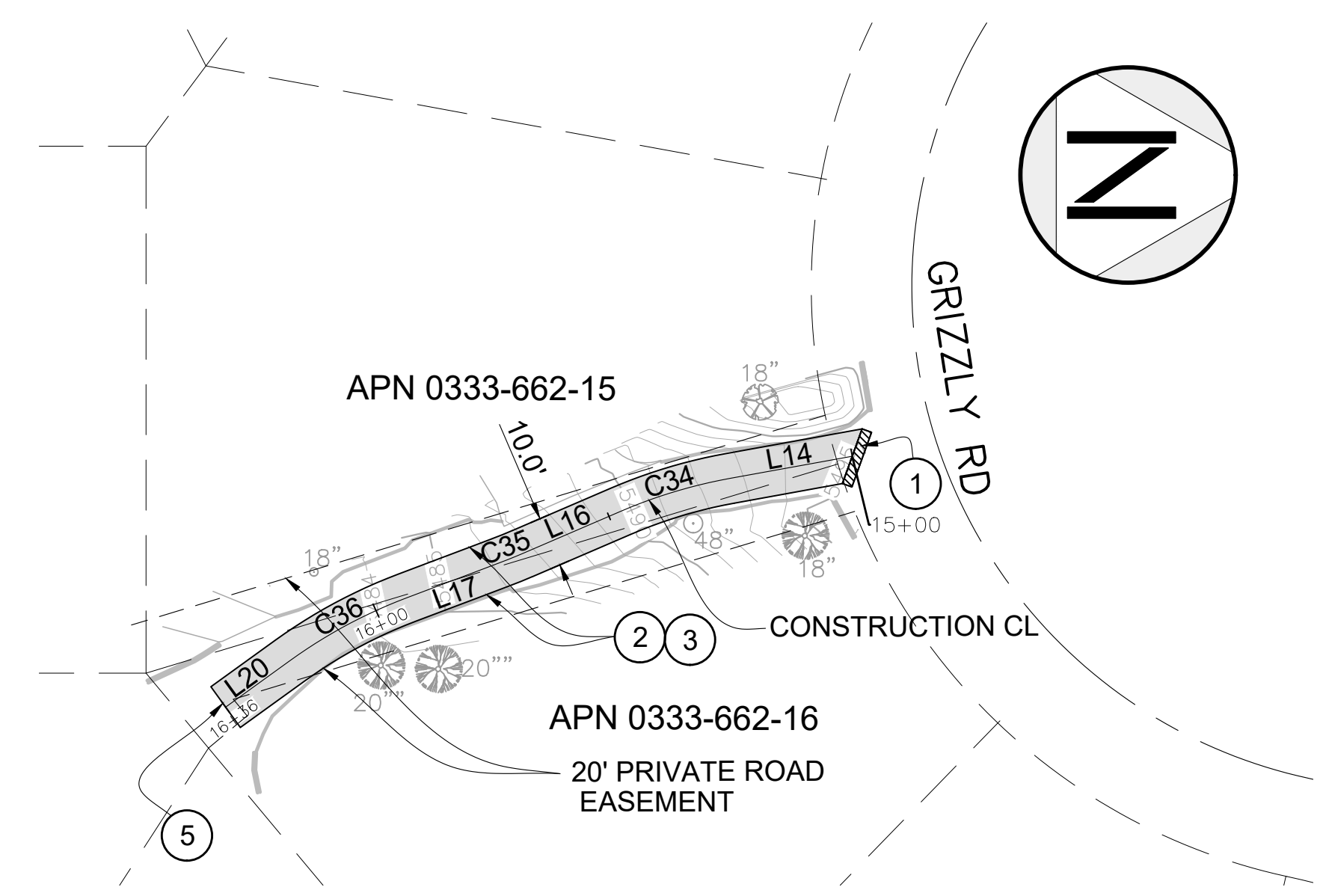
PROFILE SCALES
HORIZ: 1"=40'
VERT: 1"=20'



Construction C/L Curve Table			
Curve #	Length	Radius	Delta
C28	21.107	25.000	048.3745
C29	133.371	220.000	034.7344
C30	60.813	150.000	023.2290
C31	38.004	35.000	062.2131
C32	48.623	500.000	005.5718

Construction C/L Line Table		
Line #	Length	Direction
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 - RESET EXIST. MONUMENT AFTER CONSTRUCTION.
 - PROTECT IN PLACE, ITEM PER PLAN.



Construction C/L Line Table		
Line #	Length	Direction
L14	24.734	N10° 15' 44.07"W
L16	21.279	N23° 16' 54.55"W
L17	20.021	N20° 40' 09.15"W
L20	15.814	N35° 50' 37.59"W

Construction C/L Curve Table			
Curve #	Length	Radius	Delta
C34	22.723	100.000	013.0196
C35	4.560	100.000	002.6126
C36	26.485	100.000	015.1746

SCALE: 1"=40'