

TAHOE REGIONAL PLANNING AGENCY
These plans have been reviewed and approved as required under TRPA Rules, Regulations, and Ordinances only. TRPA has not reviewed and shall not be responsible for any elements contained in these plans, i.e. structural, electrical, mechanical, etc. which are not required for review under said Rules, Regulations, and Ordinances.

CITY OF SOUTH LAKE TAHOE, PUBLIC WORKS DEPARTMENT
**TAHOE VALLEY STORMWATER AND GREENBELT
IMPROVEMENT PROJECT PHASE I**

**CONSTRUCTION SET
FEBRUARY 2023**

PUBLIC WORKS CONTRACT No.: 11-30140030-01
FORMAL BID No.: 22-30140030-BN1

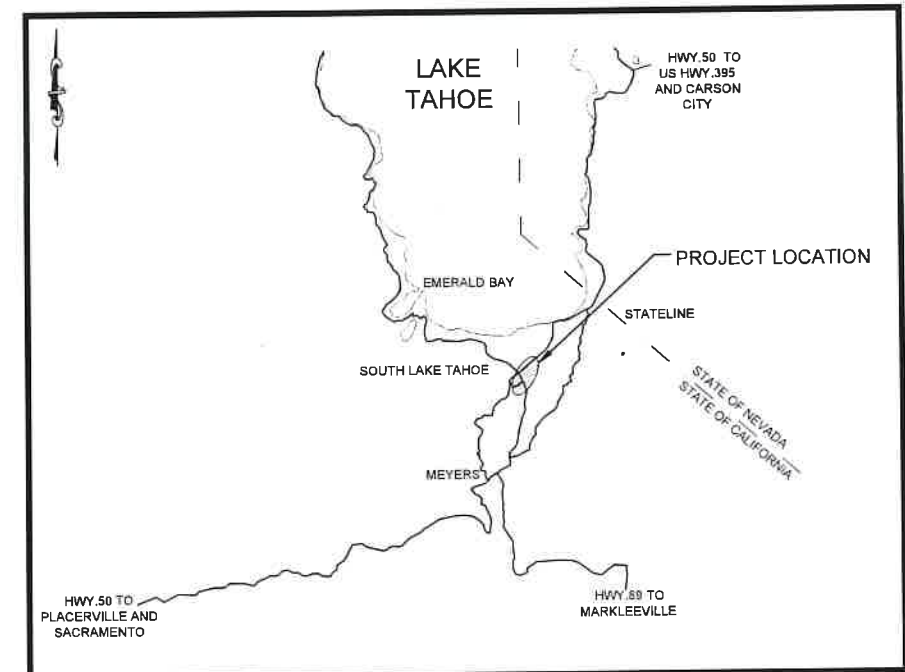


**APPROVED
PLAN REVISIONS**

TRPA FILE # EIPC2021-0010

BY Hanner-Hedman DATE 03/14/2023

Executive Director/Designee
Tahoe Regional Planning Agency



VICINITY MAP

N.T.S.



PROJECT LOCATION MAP

N.T.S.

OWNER:



CITY OF SOUTH LAKE TAHOE
1740 D STREET
SOUTH LAKE TAHOE, CA 96150

DESIGNED BY:

Brian McRae

Cardno
BRIAN McRAE, P.E.
CIVIL ENGINEER OF RECORD
STATE OF CALIFORNIA NO. 59100

12/16/22
DATE

RECORD DRAWINGS:

ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION, I.E., "RECORD DRAWING INFORMATION, SHOWN HEREIN WERE MADE UNDER THE DIRECTION OF THE UNDERSIGNED CONTRACTOR AND ARE CORRECT AND COMPLETE TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR CHANGES TO THESE PLANS NOT AUTHORIZED BY THE ENGINEER OF RECORD.

CONTRACTOR'S SIGNATURE

DATE

RESIDENT ENGINEER'S SIGNATURE
(STAMP OR SEAL)

DATE

NOTES:

CONTRACTOR'S LICENSE CLASSIFICATIONS: SEE ARTICLE 2 OF THE SPECIAL PROVISIONS

CONSTRUCTION SHALL CONFORM TO THE CITY OF SOUTH LAKE TAHOE PUBLIC IMPROVEMENT AND ENGINEERING STANDARDS, THE STANDARD PLANS, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THESE PROJECT PLANS.

CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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265 HIGHWAY 50 ZEPHYRUS, NV 89449
TEL: (775) 588-5068 FAX: (775) 588-9219
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TITLE SHEET
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION



DATE | FEB 2023
DRAWN | ET
DESIGNED | JT / JD
CHECKED | JD / BM
PROJECT # | E320400600
SHEET TITLE |
SHEET NUMBER |

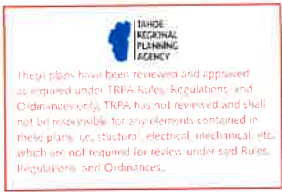
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CONSTRUCTION SET

- Plot Stamp 2/13/2023 3:35:23 PM - Trujillo, Ivan
File U:\237800\40107_historical\15 CAD\Phase 1\1 DWG\3 Sheetal Sheets\TVGS TITLE SHEET.dwg Tab 11

- Plot Stamp 2/13/2023 3:35:23 PM - Trujillo, Ivan
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CHARTER COMMUNICATIONS (775) 233-8706
SOUTHWEST GAS CO. (775) 887-2864
LIBERTY ENERGY (530) 543-5278
SOUTH TAHOE PUD (530) 544-6474
AT&T (916) 453-6267
CITY OF SOUTH LAKE TAHOE DPW (530) 542-6031
CALTRANS (530) 741-4566



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SOUTH LAKE TAHOE, CA

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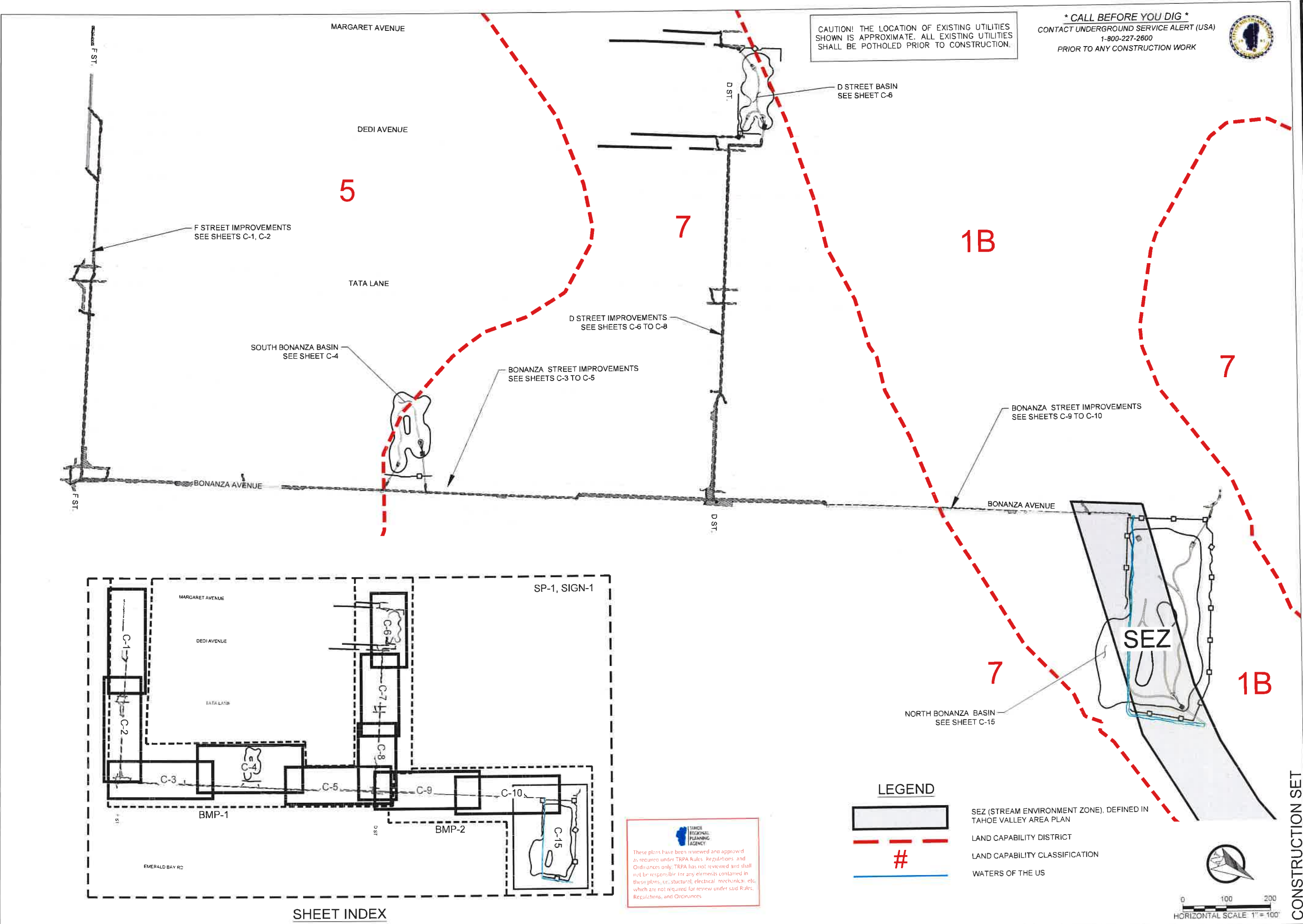
DATE	FEB 2023
DRAWN	ET
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600

SHEET NUMBER

2

CONSTRUCTION SET

Plot Stamp: 2/13/2023 3:36:02 PM - Tujillo Ivan
File: U:\278004\0107_Historic\15 CAD\Phase 11 DWG\33 Sheet\TVGS_SITE-PLAN.dwg Tab: SP-1



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SITE PLAN SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION



DATE	FEE 2023
DRAWN	ET
DESIGNED	IT/JD
CHECKED	JD/BM
PROJECT #	E320400500
SHEET TITLE	SP-1
SHEET NUMBER	4

NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE APPROVED SWPPP AND THE PROJECT PERMITS.
2. THE STAGING AREA AS SHOWN ON THE BMP SHEETS INDICATES THE MAXIMUM USABLE SPACE THAT IS AVAILABLE TO THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION LIMIT AND STORAGE/STAGING AREA FENCING PLAN AND WORK SCHEDULE TO THE ENGINEER FOR ANY DEVIATIONS TO THIS PLAN FOR REVIEW AND ACCEPTANCE PRIOR TO ANY WORK REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE PROJECT DRAWINGS.
4. PLACEMENT OF ADDITIONAL FENCING MAY BE NECESSARY FOR THE WORK REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE PROJECT DRAWINGS.
5. THIS PLAN SHEET IS DIAGRAMMATIC ONLY. ALL TEMPORARY FENCING AND TEMPORARY EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MODIFIED AS NECESSARY PER PROGRESSION OF THE WORK, AS DIRECTED BY THE ENGINEER, AS DIRECTED BY THE QSP AND TO REFLECT EACH DAILY ACTIVE WORKING AREA; TO PROTECT PUBLIC SAFETY AND MAINTAIN EMERGENCY AND BUSINESS ACCESS, FOR THE DURATION OF THE PROJECT.
6. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE TRPA AND REGIONAL WATER QUALITY CONTROL BOARD FOR APPROVAL OF ALL INSTALLED TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR IS ADDITIONALLY REQUIRED TO SCHEDULE A TRPA PRE-GRADE MEETING. SEE SPECIAL PROVISIONS AND PROJECT PERMITS FOR ADDITIONAL REQUIREMENTS.
7. TEMPORARY EROSION CONTROL DEVICES SHALL BE PLACED, MAINTAINED AND ADJUSTED AS NECESSARY RELATIVE TO EACH DAILY ACTIVE WORKING AREA AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE APPROVED SWPPP AND THE PROJECT PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES.
9. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED BY AN AMENDED SWPPP, DIRECTED BY THE ENGINEER OR DIRECTED BY THE PROJECT QSP.
10. CHECK DAMS SHALL BE INSTALLED AT A SEPARATION DISTANCE SO THAT THE TOP OF THE DOWNSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE BOTTOM OF THE UPSTREAM CHECK DAM.

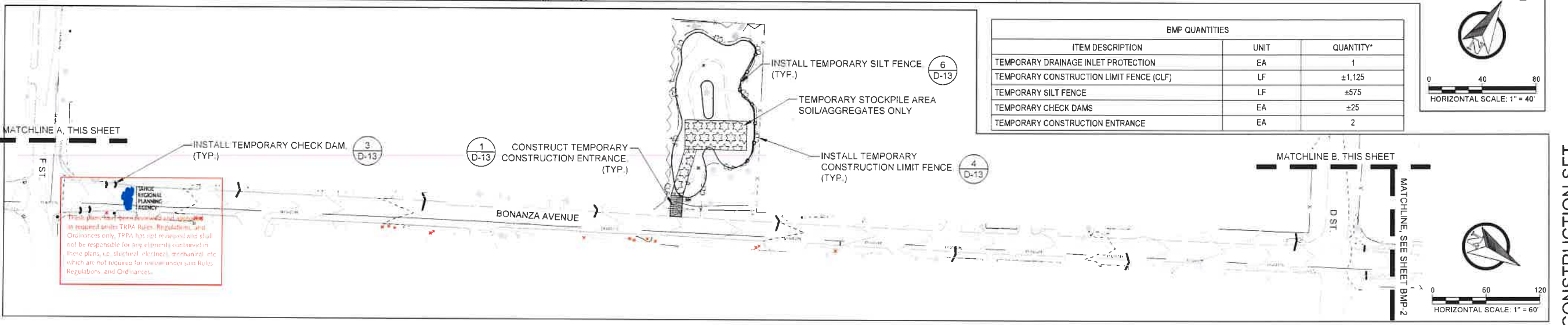
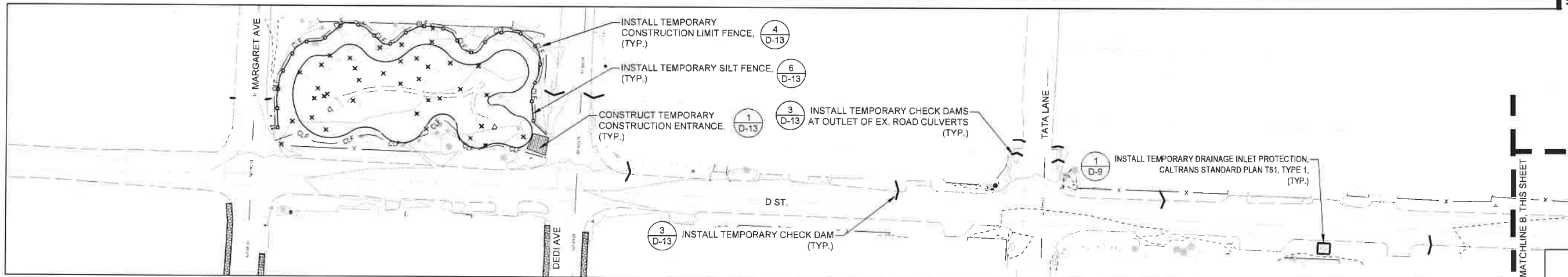
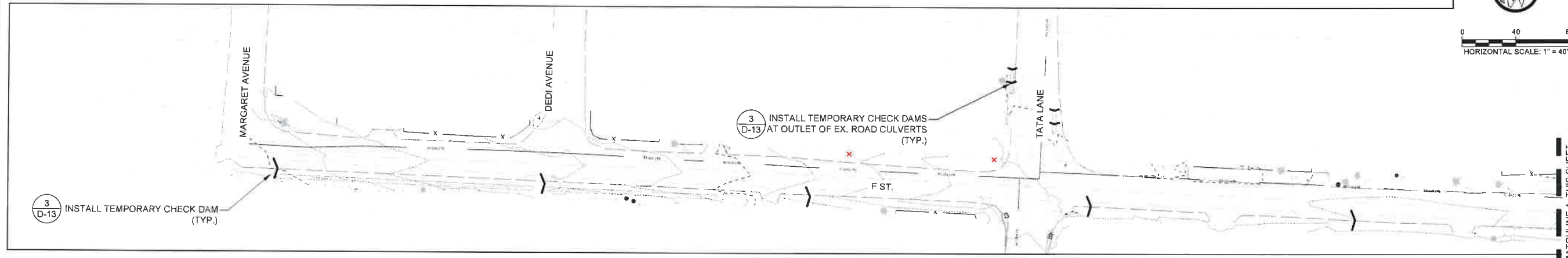
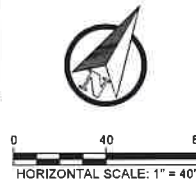
CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

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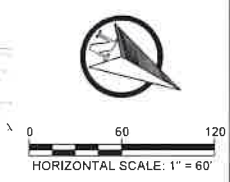
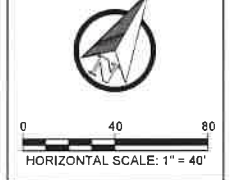


LEGEND

- TEMPORARY SILT FENCE
- CLF TEMPORARY CONSTRUCTION LIMIT FENCE
- TEMPORARY FIBER ROLL
- TEMPORARY CHECK DAM
- TEMPORARY DRAINAGE INLET PROTECTION
- TEMPORARY STAGING AND STORAGE AREA
- TEMPORARY CONSTRUCTION ENTRANCE



BMP QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY*
TEMPORARY DRAINAGE INLET PROTECTION	EA	1
TEMPORARY CONSTRUCTION LIMIT FENCE (CLF)	LF	±1,125
TEMPORARY SILT FENCE	LF	±575
TEMPORARY CHECK DAMS	EA	±25
TEMPORARY CONSTRUCTION ENTRANCE	EA	2



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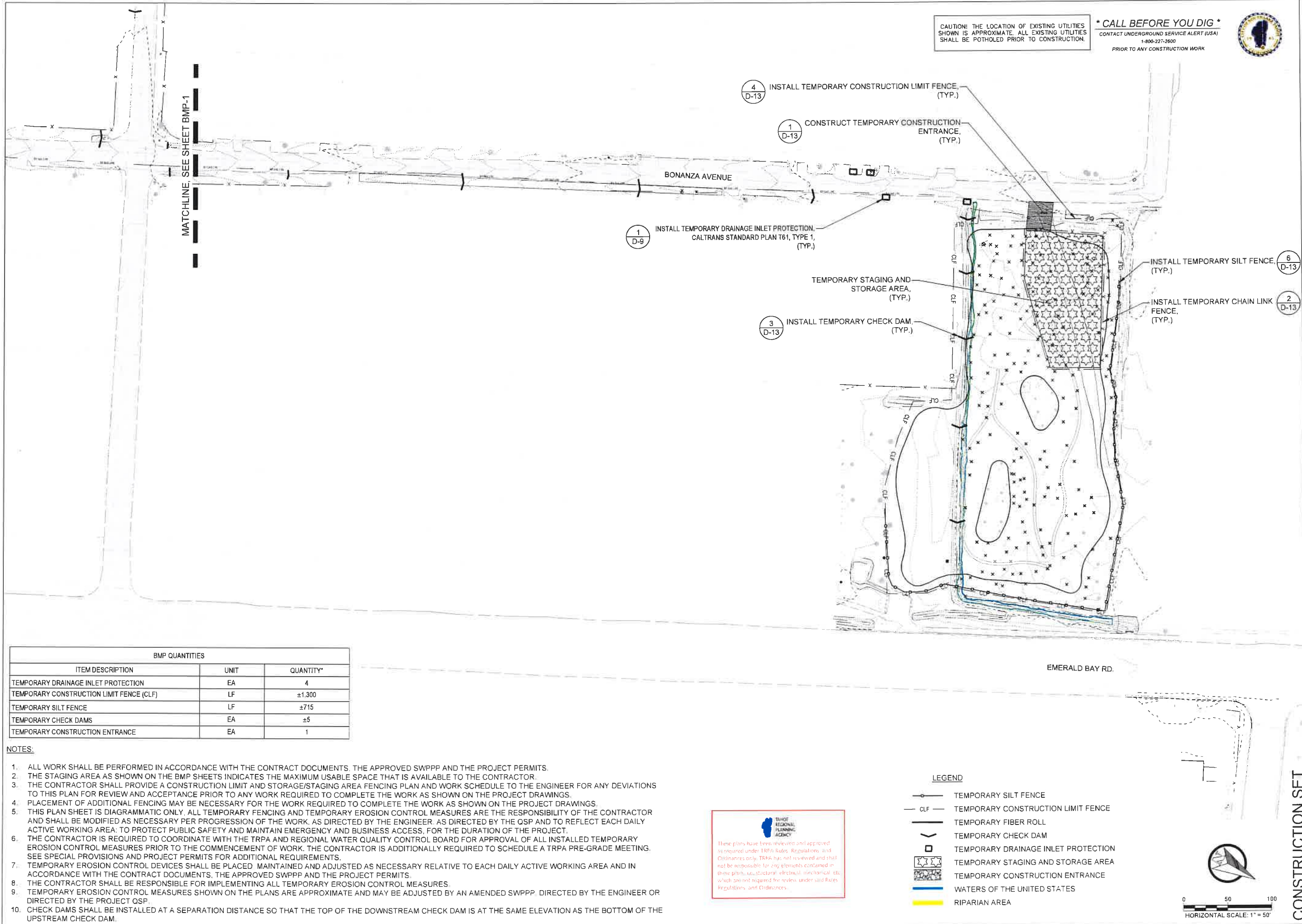
BMP SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

DATE	DESCRIPTION



DATE | FEB 2023
DRAWN | ET
DESIGNED | JT / JD
CHECKED | JD / BM
PROJECT # | E32040606
SHEET TITLE
BMP-1
SHEET NUMBER

Pld Stamp: 2/13/2023 3:38:09 PM - Trujillo Ivan
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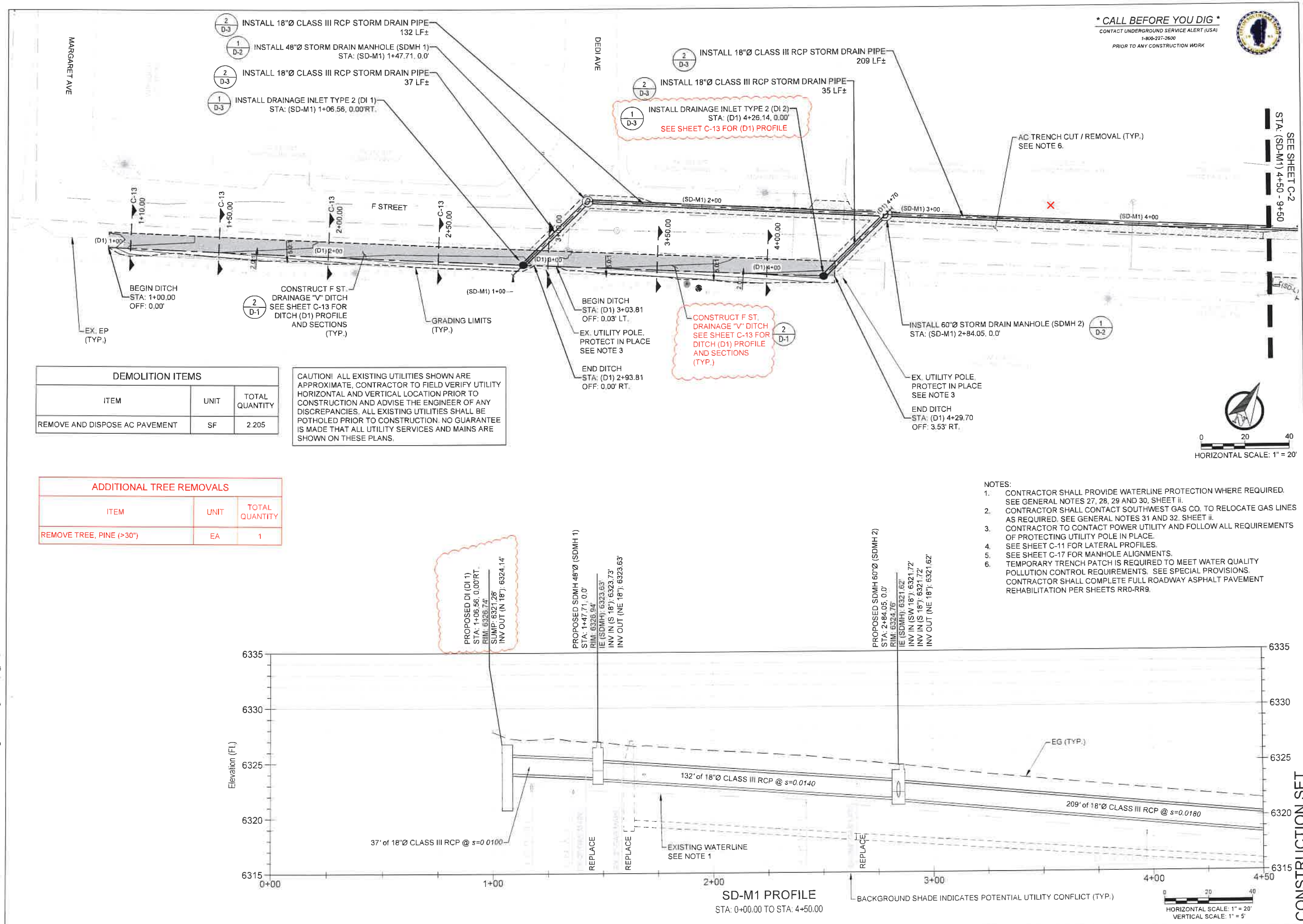
BMP SHEET 2
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION



DATE | FEB 2023
DRAWN | ET
DESIGNED | IT / JD
CHECKED | JD / BM
PROJECT # | E320400600

SHEET TITLE
BMP-2
SHEET NUMBER

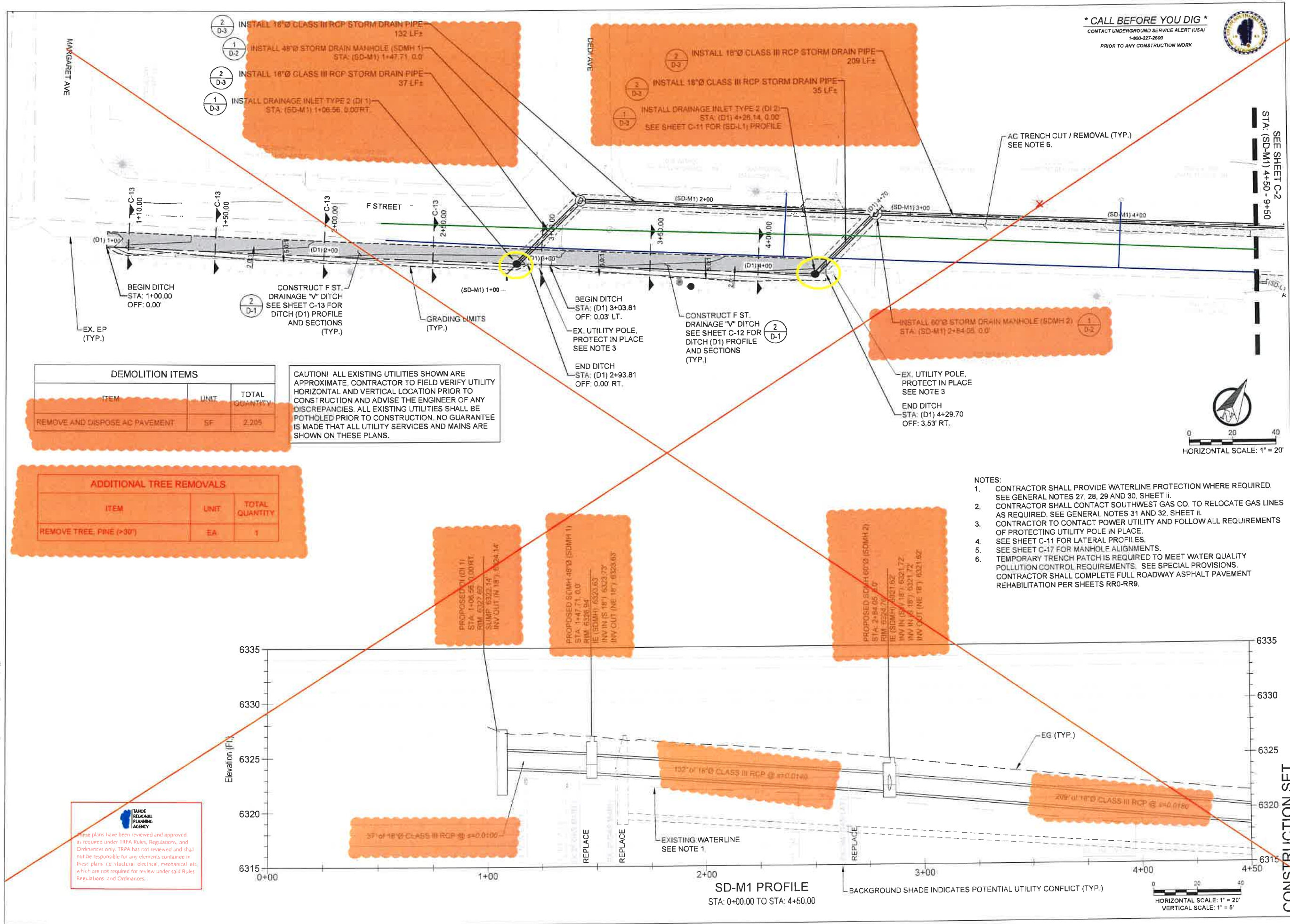


DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
REMOVE AND DISPOSE AC PAVEMENT	SF	2 205

DATE	DESCRIPTION	BY
5/13/22	EX UTILITY UPDATES AND SD REVISIONS	IT
01/08/23	EX UTILITY UPDATES AND SD REVISIONS	IT
07/13/23	ADDITIONAL TREE REMOVALS	IT

DATE	FEB 26/23
DRAWN	ET
DESIGNED	IT / JD
CHECKED	JD / EM
PROJECT #	E320400600
SHEET TITLE	
C-1	
SHEET NUMBER	

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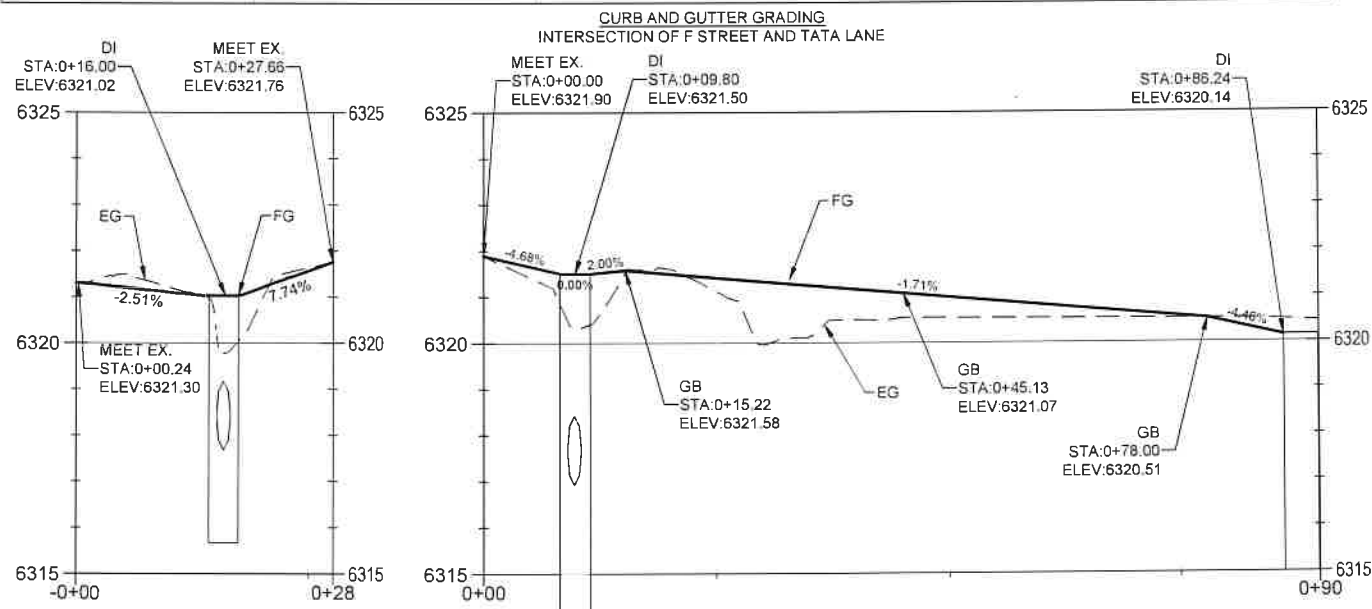
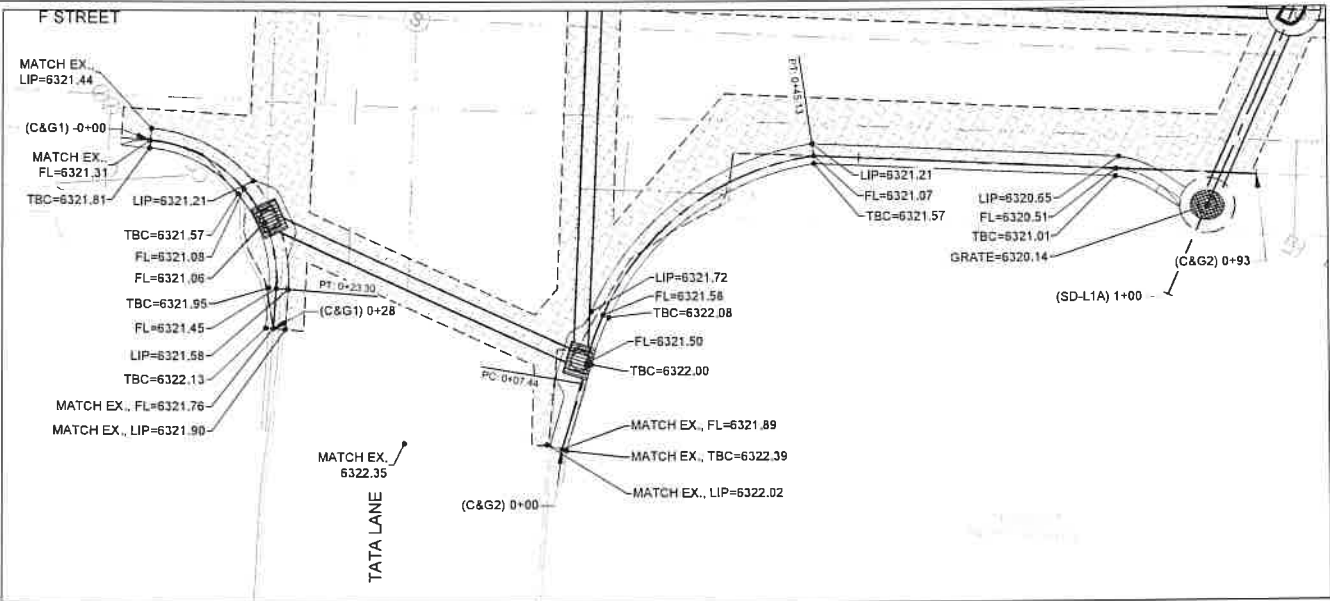
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F STREET PLAN AND PROFILE SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE, CA
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION	BY
1	5/19/22	EX. UTILITY UPDATES, AND SD REVISIONS	IT
2	01/09/23	EX. UTILITY UPDATES, AND SD REVISIONS	IT
3	03/13/23	ADDITIONAL TREE REMOVALS	IT

DATE 1 FEB 2023
DRAWN ET
DESIGNED IT / JD
CHECKED JD / RM
PROJECT # E320400600

SHEET TITLE C-1
SHEET NUMBER 7

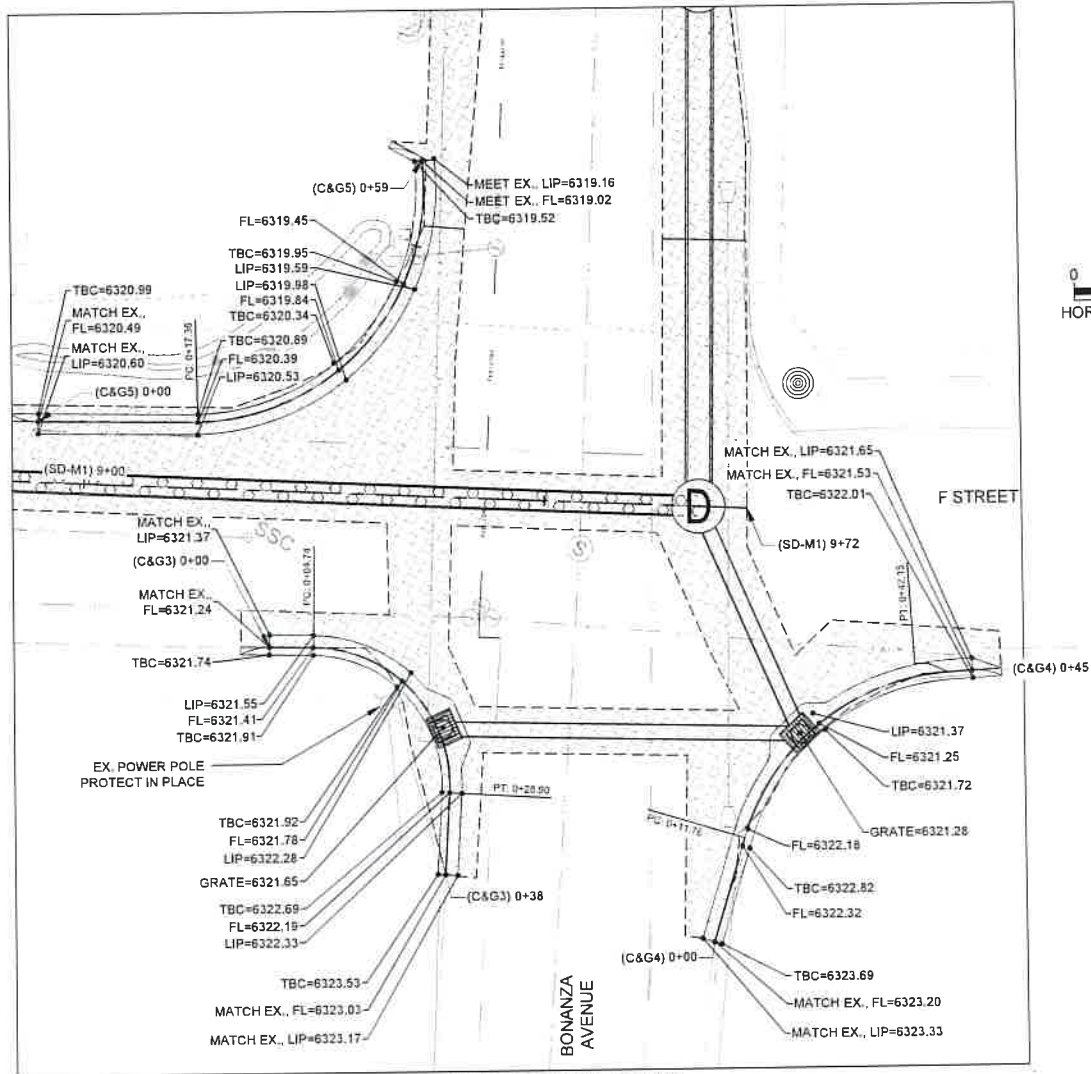


C&G1 FLOWLINE PROFILE

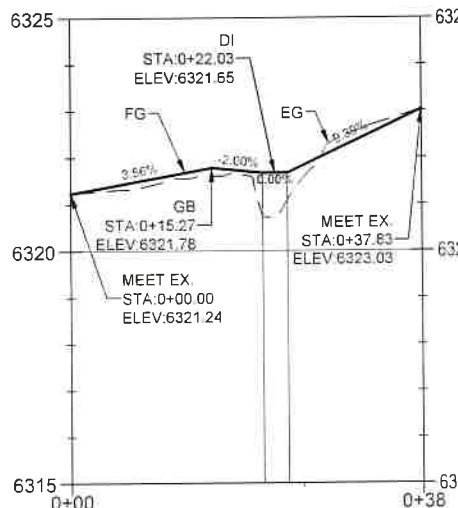
STA: 0+00.00 TO STA: 0+27.66

C&G2 FLOWLINE PROFILE

STA: 0+00.00 TO STA: 0+90.00

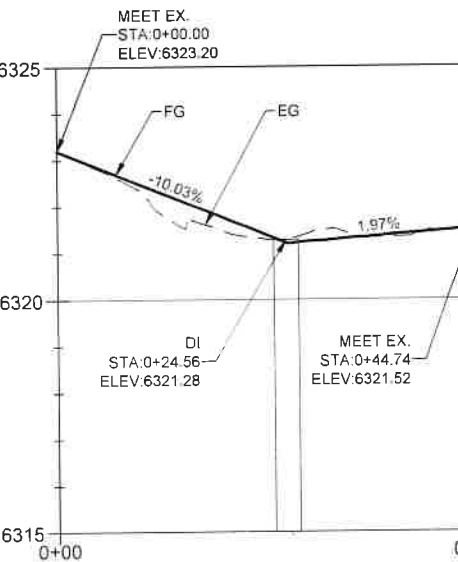


C&G3 FLOWLINE PROFILE



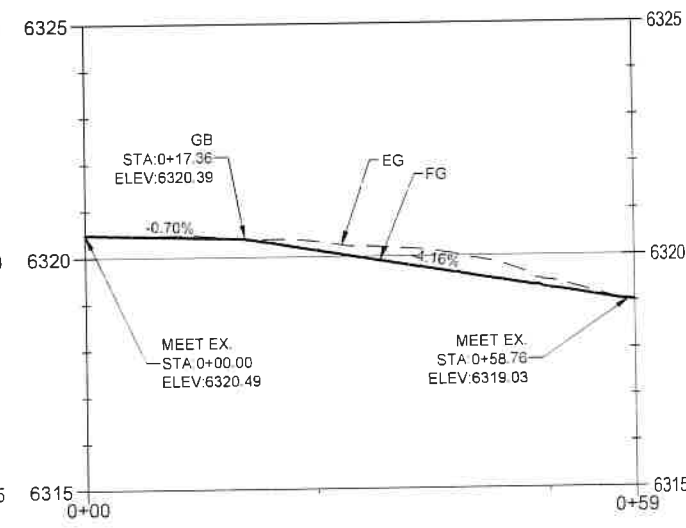
C&G3 FLOWLINE PROFILE

STA: 0+00.00 TO STA: 0+37.83



C&G4 FLOWLINE PROFILE

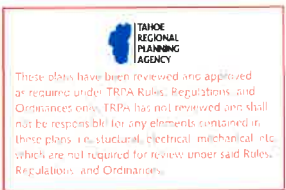
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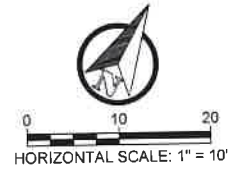
C&G5 FLOWLINE PROFILE

STA: 0+00.00 TO STA: 0+59.36

- NOTES:
- CAD LINEWORK AND ALIGNMENTS WILL BE PROVIDED TO CONTRACTOR.
 - LINE AND CURVE INFORMATION AND STATION OFFSETS FOR CURB AND GUTTER CONSTRUCTION MAY BE AVAILABLE UPON REQUEST.



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PRIOR TO ANY CONSTRUCTION WORK



F STREET INTERSECTIONS

TVSG IMPROVEMENT PROJECT PHASE I

CITY OF SOUTH LAKE TAHOE

SOUTH LAKE TAHOE, CA



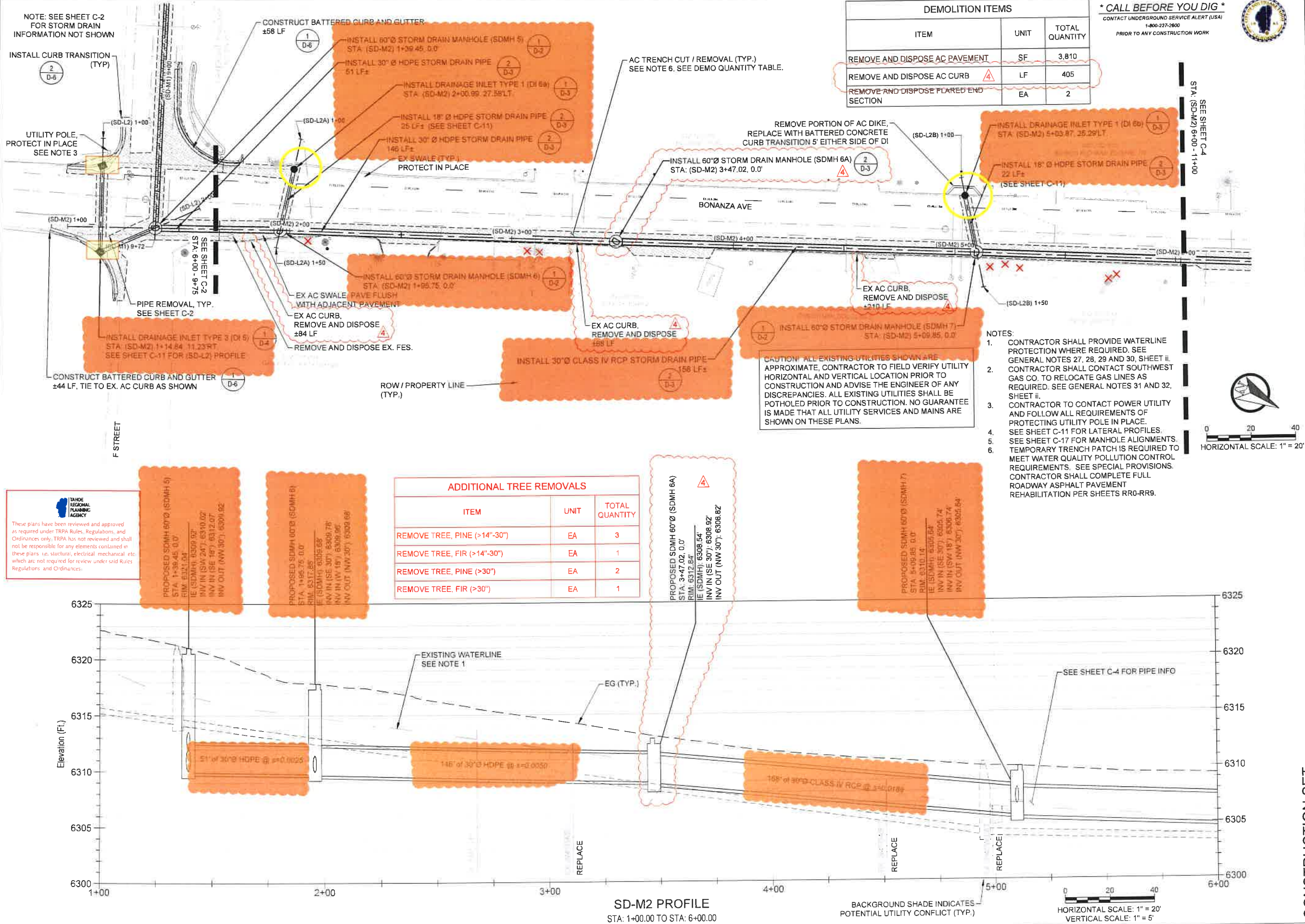
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#	DATE	DESCRIPTION



DATE: 1 FEB 2023
DRAWN: ET
DESIGNED: JTD
CHECKED: JTD/BM
PROJECT #: E329406600
SHEET TITLE: C-2a
SHEET NUMBER: 9

CONSTRUCTION SET

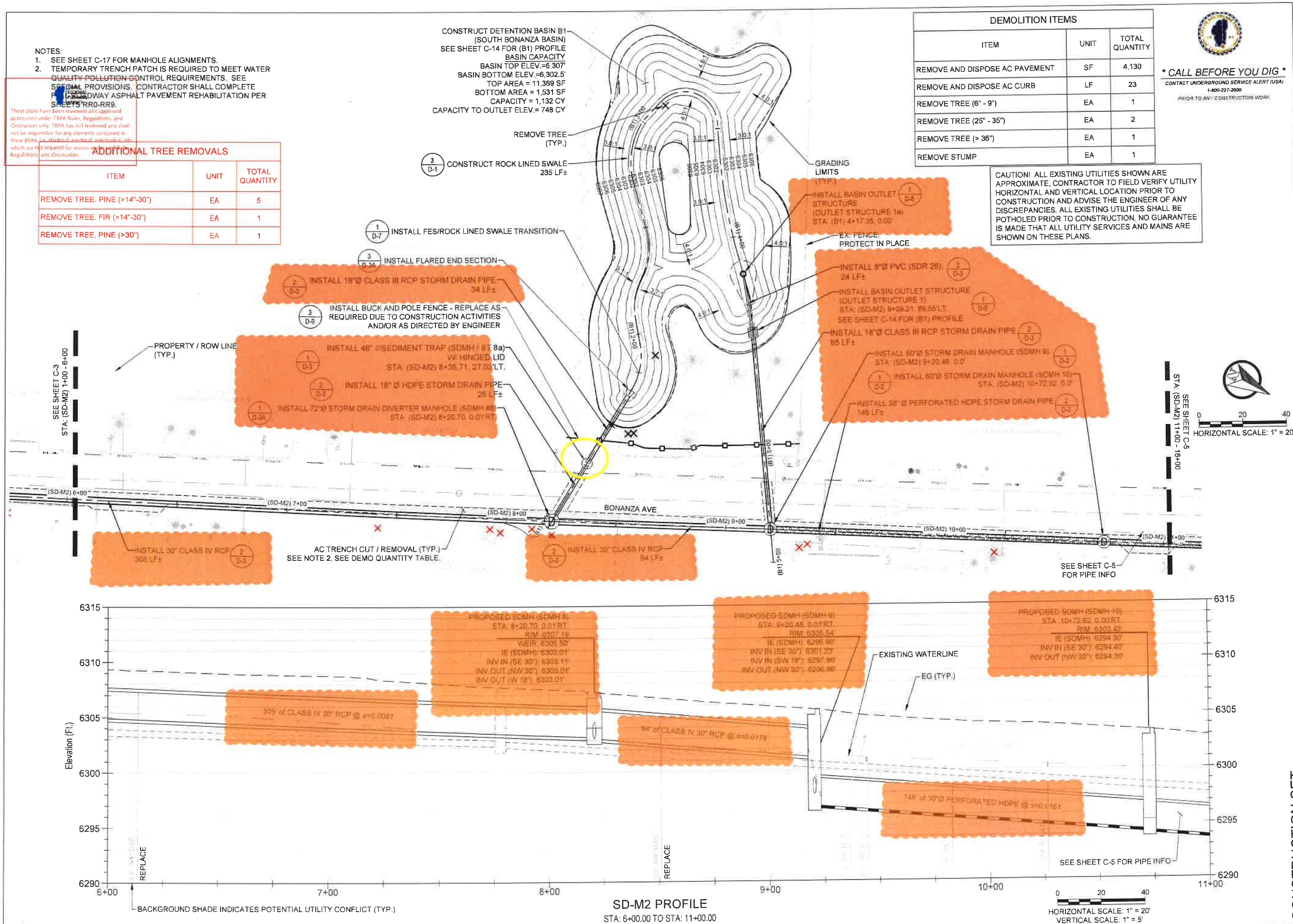


CONSTRUCTION SET

#	DATE	DESCRIPTION	BY
1	5/13/22	EX. UTILITY / UPDATES AND SD REVISIONS	IT
2	01/06/23	EX. UTILITY UPDATES AND SD REVISIONS	IT
3	02/13/23	ADDITIONAL TREE REMOVALS	IT
4	02/27/23	SD REVISIONS AND AC CURB REMOVAL	IT



DATE	1 FEB 2023
DRAWN	BT
DESIGNED	IT / JD
CHECKED	JD / EM
PROJECT #	E320400600
SHEET TITLE	C-3
SHEET NUMBER	10



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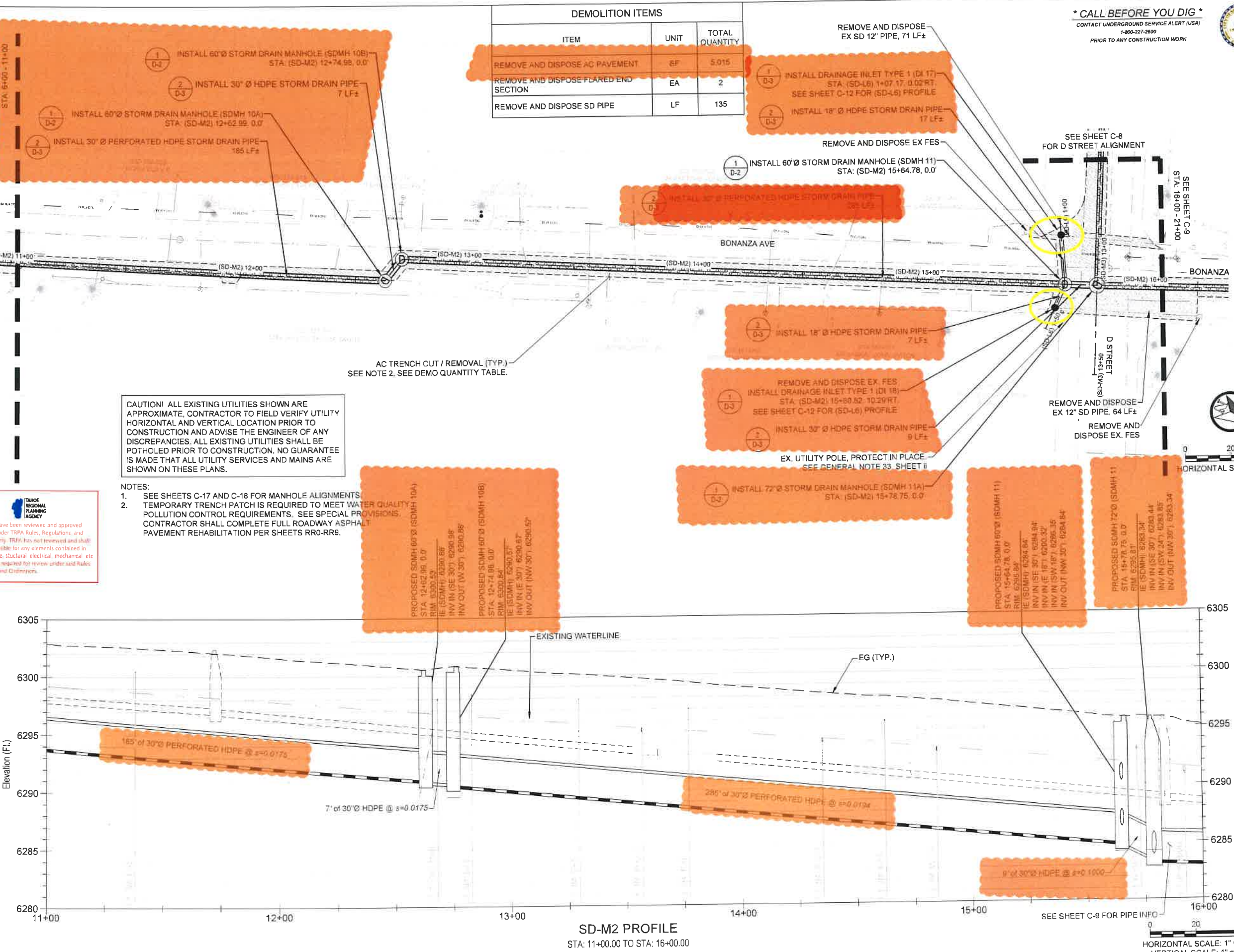
HORIZONTAL SCALE: 1" = 20'

DATE	DESCRIPTION	BY
1/13/22	1. UTILITY UPDATES AND 3D REVISIONS	IT
2/1/23	2. UTILITY UPDATES AND 3D REVISIONS	IT
2/1/23	3. ADDITIONAL TREE REMOVALS	IT



DATE	1 FEB 2023
DRAWN	IT
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600
SHEET TITLE	C-4
SHEET NUMBER	11

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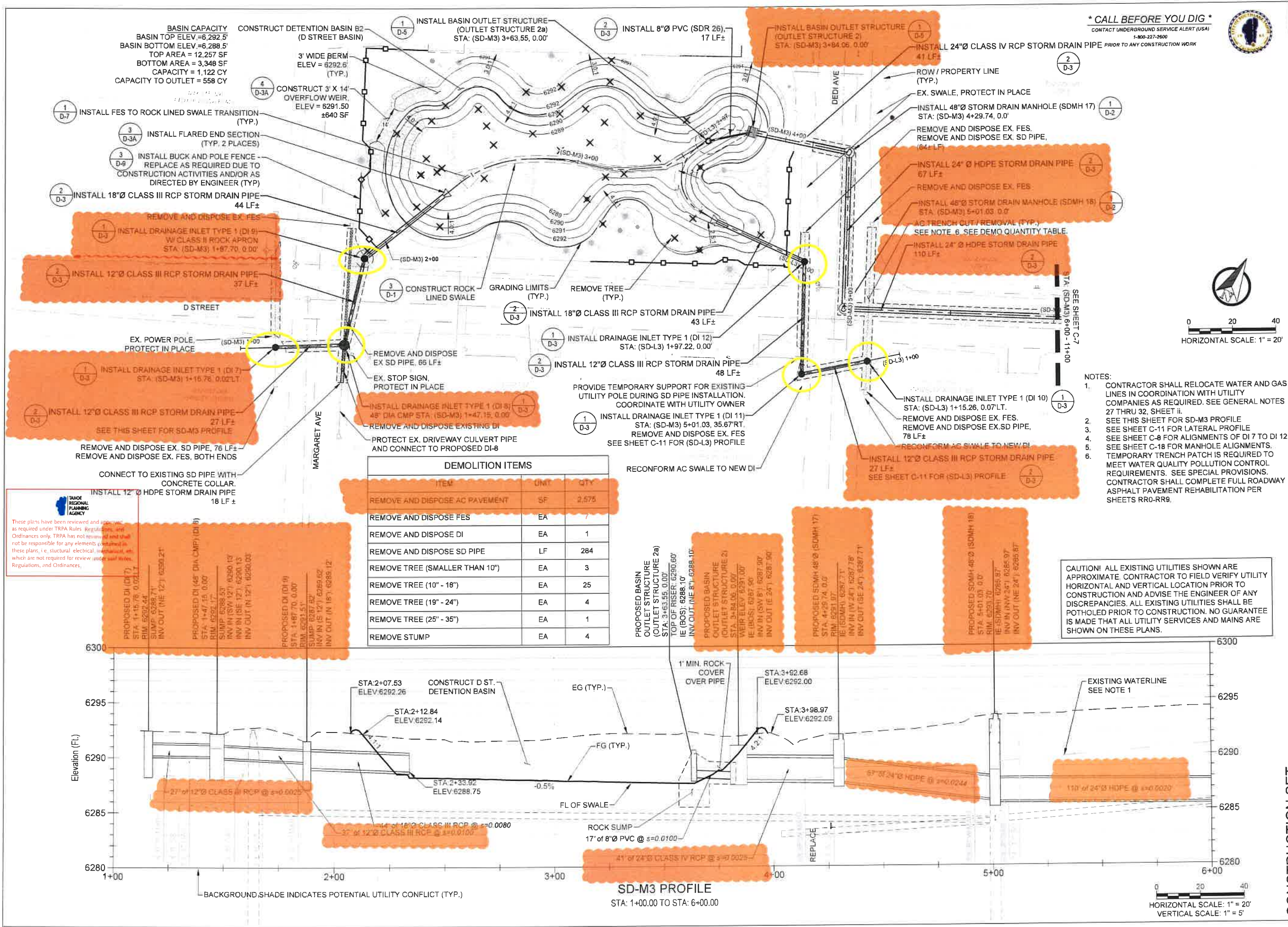
BONANZA AVENUE PLAN AND PROFILE SHEET 3
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

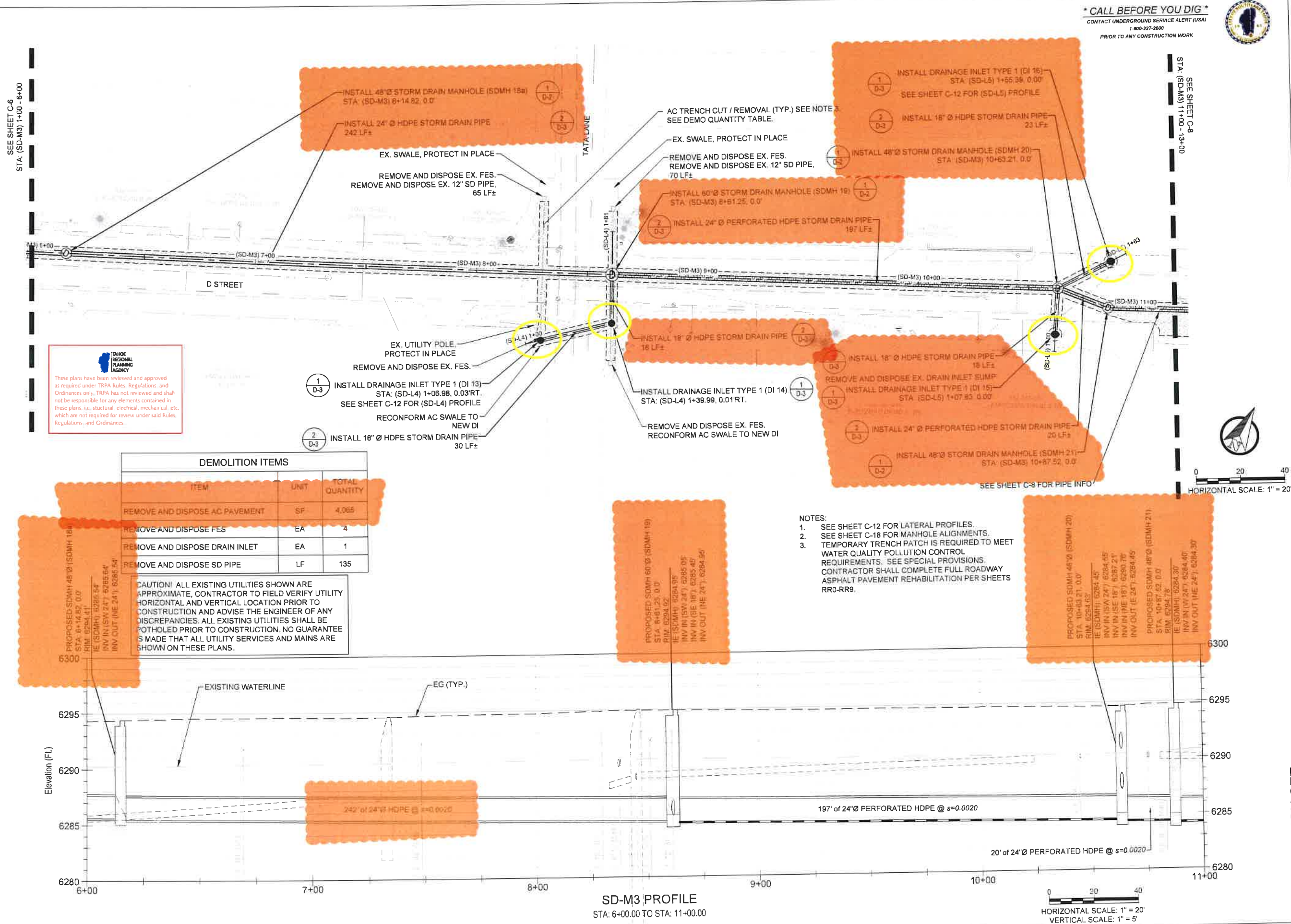
#	DATE	DESCRIPTION	BY
1	5/19/22	EX. UTILITY UPDATES, AND SD REVISIONS	IT
2	01/08/23	EX. UTILITY UPDATES, AND SD REVISIONS	IT

CONSTRUCTION SET

DATE 1 FEB 2023
DRAWN ET
DESIGNED JT/JD
CHECKED JD/BM
PROJECT # E320400600

SHEET TITLE C-5
SHEET NUMBER 12





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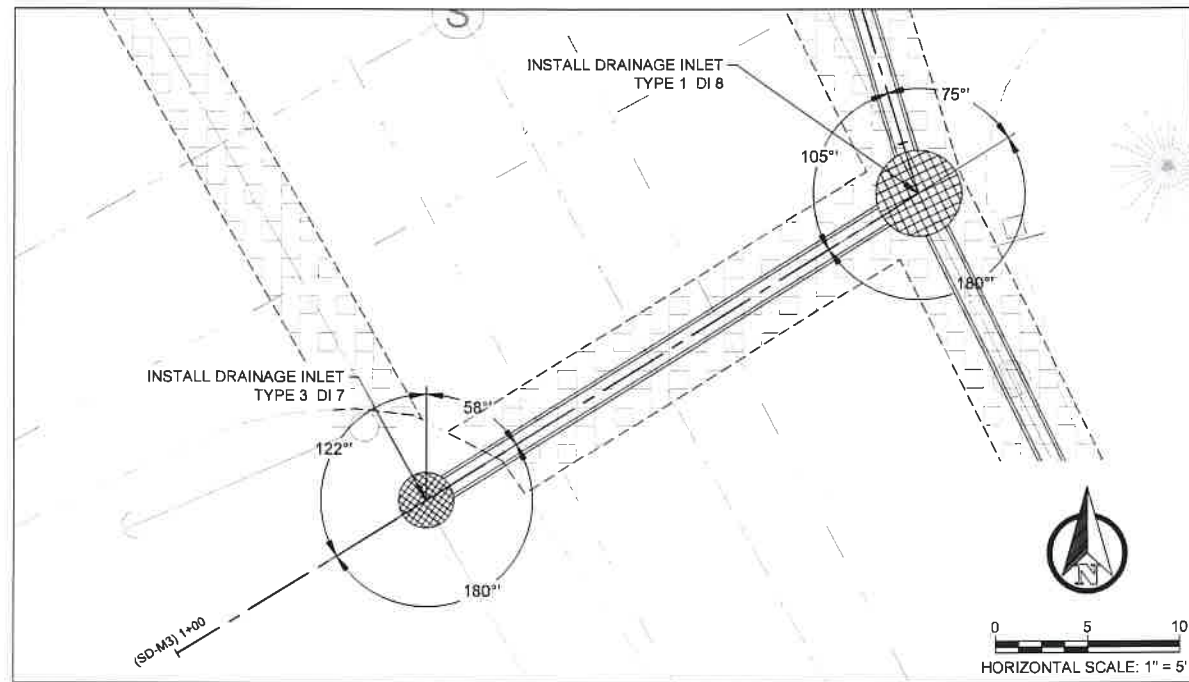
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D STREET PLAN AND PROFILE SHEET 2
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

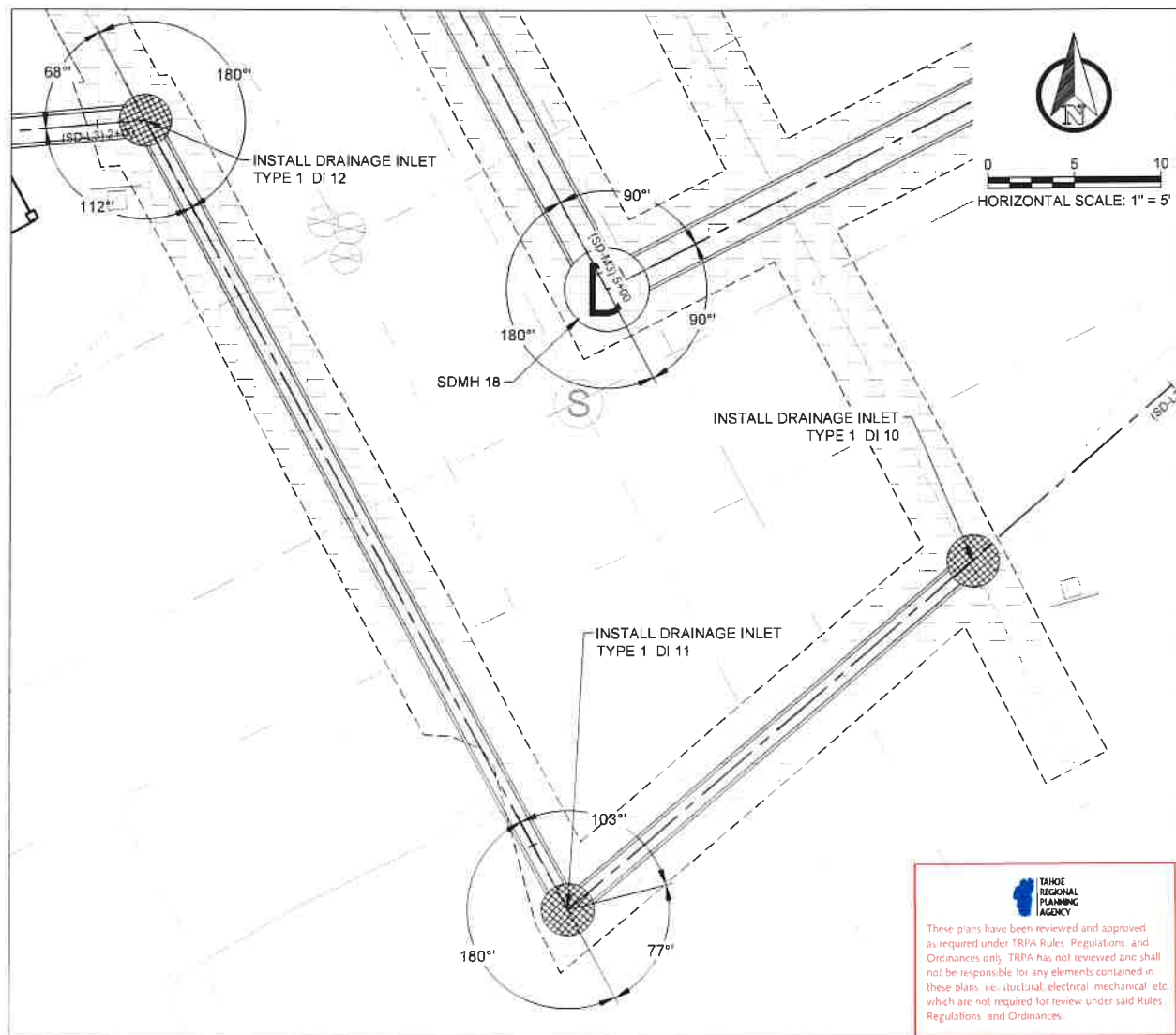
CONSTRUCTION SET

DATE: 1 FEB 2023
DRAWN: ET
DESIGNED: JT / JO
CHECKED: JD / BM
PROJECT #: E320400600
SHEET TITLE: C-7
SHEET NUMBER: 14

File: U:\23\040\01\07\historical\3 CAD\Phase 11 DWG\3 Streetsheet\TVGS_PLAN\PROFILE_BONANZA.dwg, Tab: C-8
Plot Stamp: 2/13/2023 3:46:46 PM - Trillia Ivan
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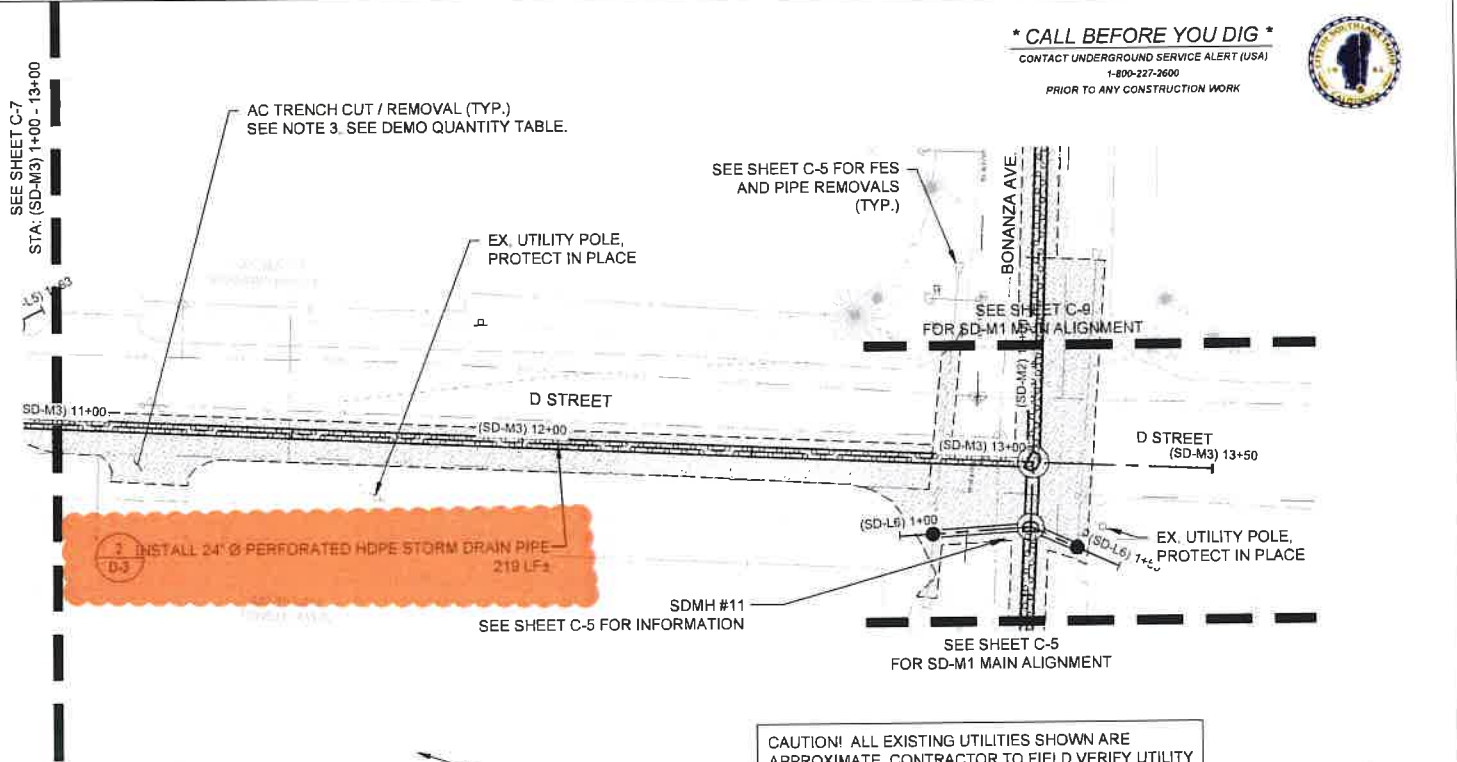


PLAN VIEW, DI ALIGNMENTS - DI 7, DI 8, SEE SHEET C-6



PLAN VIEW, DI ALIGNMENTS - DI 10, DI 11, DI 12, SEE SHEET C-6

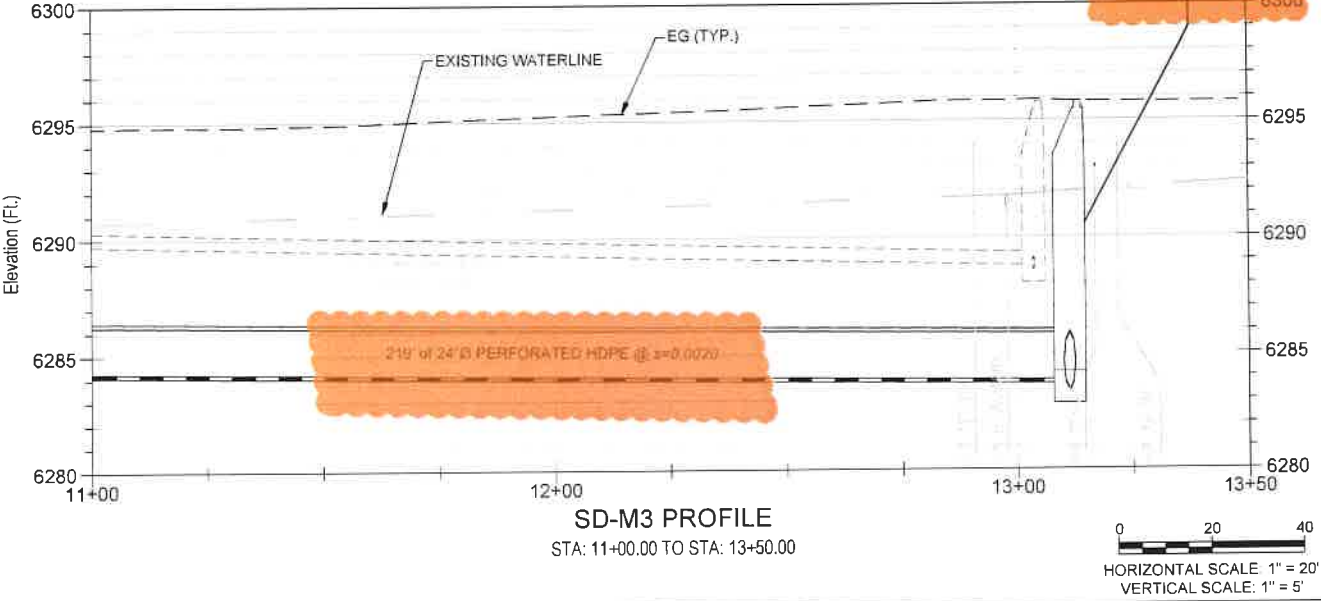
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CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION. NO GUARANTEE IS MADE THAT ALL UTILITY SERVICES AND MAINS ARE SHOWN ON THESE PLANS.

- NOTES:
1. SEE SHEET C-18 FOR MANHOLE ALIGNMENTS.
 2. SEE SHEET C-12 FOR (SD-L6) PROFILE.
 3. TEMPORARY TRENCH PATCH IS REQUIRED TO MEET WATER QUALITY POLLUTION CONTROL REQUIREMENTS. SEE SPECIAL PROVISIONS. CONTRACTOR SHALL COMPLETE FULL ROADWAY ASPHALT PAVEMENT REHABILITATION PER SHEETS RR0-RR9.

DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
REMOVE AND DISPOSE AC PAVEMENT	SF	1,610



SD-M3 PROFILE
STA: 11+00.00 TO STA: 13+00.00

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

CONSTRUCTION SET

#	DATE	DESCRIPTION	BY
1	2/13/23	EX. UTILITY UPDATES, AND SD REVISIONS	IT
2	01/08/23	EX. UTILITY UPDATES, AND SD REVISIONS	IT
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92			
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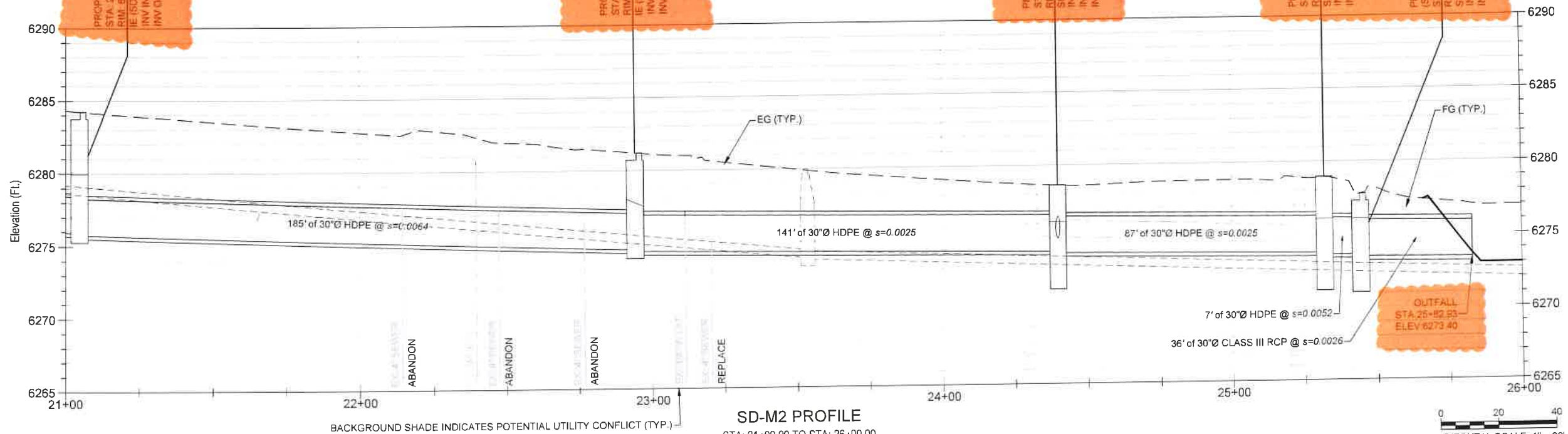
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D STREET PLAN AND PROFILE SHEET 3
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA



DATE	1 FEB 2023
DRAWN	IT
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400690
SHEET TITLE	C-8
SHEET NUMBER	15

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SEE SHEET C-9
STA: (SD-M2) 16+00 - 21+00

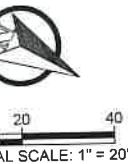
SEE SHEET C-15
STA: (B-3) 1+00 - 3+00

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION. NO GUARANTEE IS MADE THAT ALL UTILITY SERVICES AND MAINS ARE SHOWN ON THESE PLANS.

DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
REMOVE AND DISPOSE AC PAVEMENT	SF	400
REMOVE AND DISPOSE DRAIN INLET	EA	2
REMOVE AND DISPOSE SD PIPE	LF	102
REMOVE STUMP	EA	4

- NOTES:
1. CONTRACTOR SHALL RELOCATE UTILITY POLES AS REQUIRED. SEE GENERAL NOTE 33, SHEET II.
 2. CONTRACTOR SHALL PROVIDE WATERLINE PROTECTION WHERE REQUIRED. SEE GENERAL NOTES 27, 28, 29 AND 30, SHEET II.
 3. SEE SHEET C-18 FOR MANHOLE ALIGNMENTS.
 4. TEMPORARY TRENCH PATCH IS REQUIRED TO MEET WATER QUALITY POLLUTION CONTROL REQUIREMENTS. SEE SPECIAL PROVISIONS. CONTRACTOR SHALL COMPLETE FULL ROADWAY ASPHALT PAVEMENT REHABILITATION PER SHEETS RR0-RR9.

* CALL BEFORE YOU DIG *
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1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



HORIZONTAL SCALE: 1" = 20'



HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

CONSTRUCTION SET

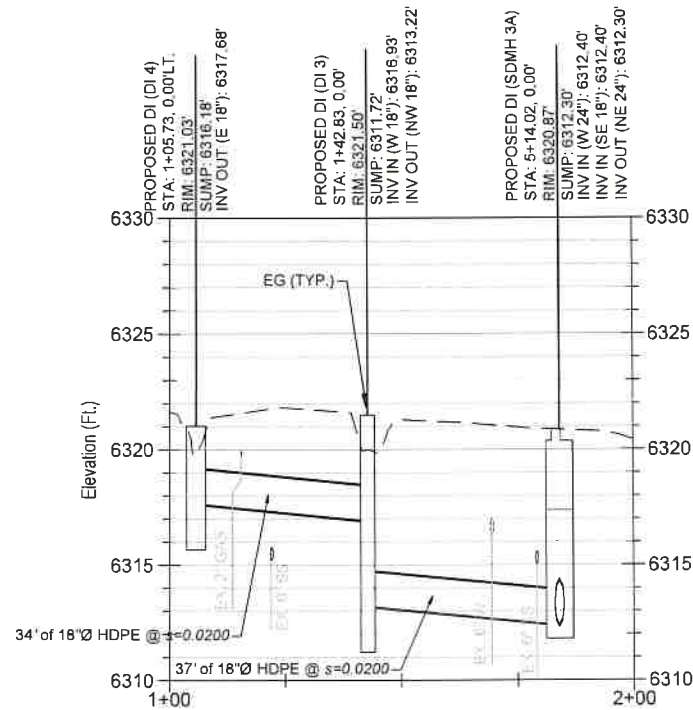
DATE	DESCRIPTION
1/13/22	EX. UTILITY UPDATES AND REVISIONS
2/1/22	EX. UTILITY UPDATES AND REVISIONS



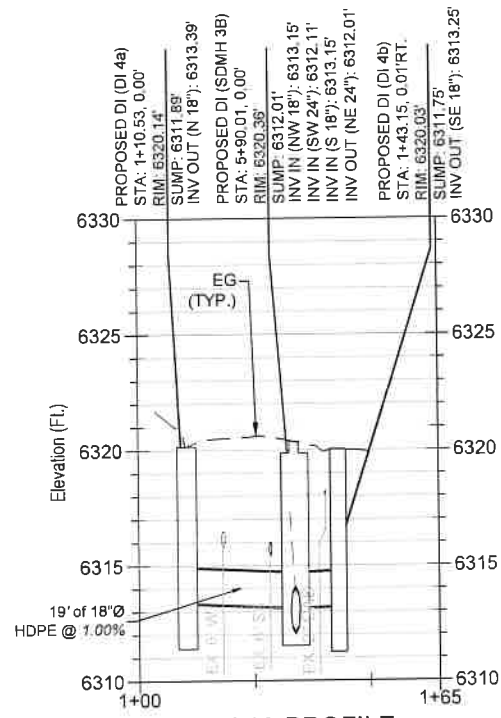
DATE: 1 FEB 2023
DRAWN: ET
DESIGNED: JT/JD
CHECKED: JD/BM
PROJECT #: E326406800
SHEET TITLE: C-10
SHEET NUMBER: 17

BONANZA AVENUE PLAN AND PROFILE SHEET 5
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

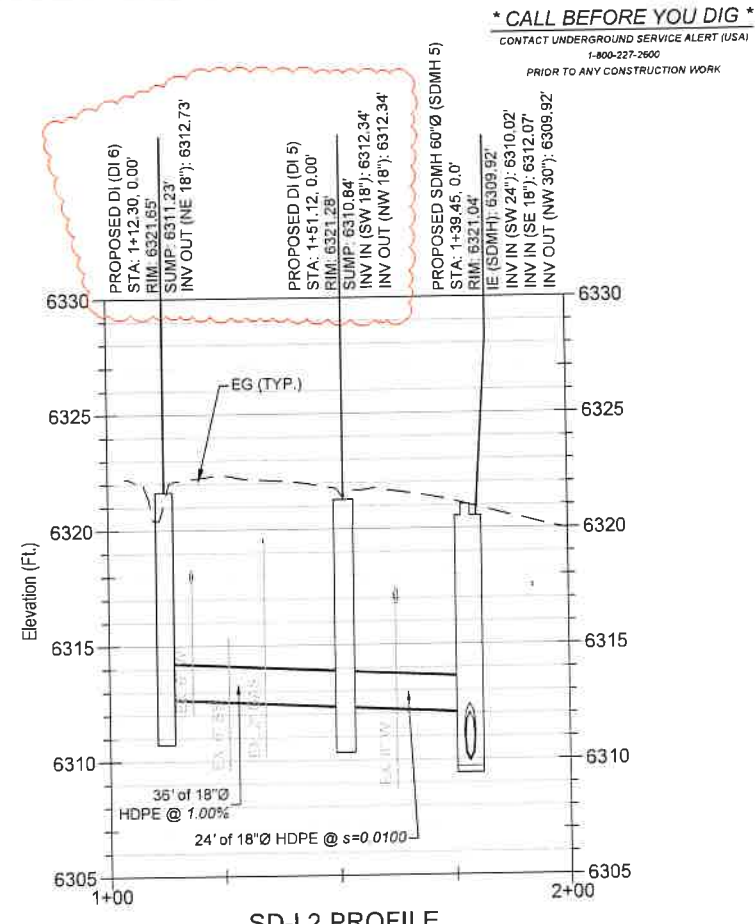
Cardno
LAKE TAHOE
285 HIGHWAY 50 ZEPHYRUS DRIVE NW 99448
TEL: (775) 588-3869 FAX: (775) 588-9219
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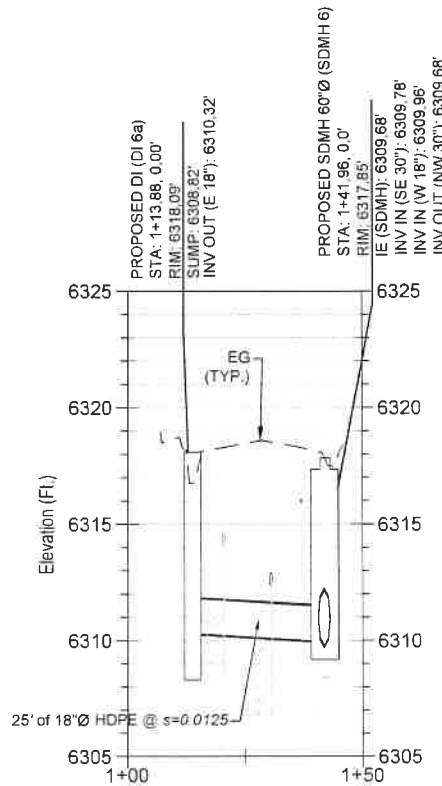
SD-L1 PROFILE
STA: 1+00.00 TO STA: 2+00.00
SEE SHEET C-2 FOR SD PLAN VIEW



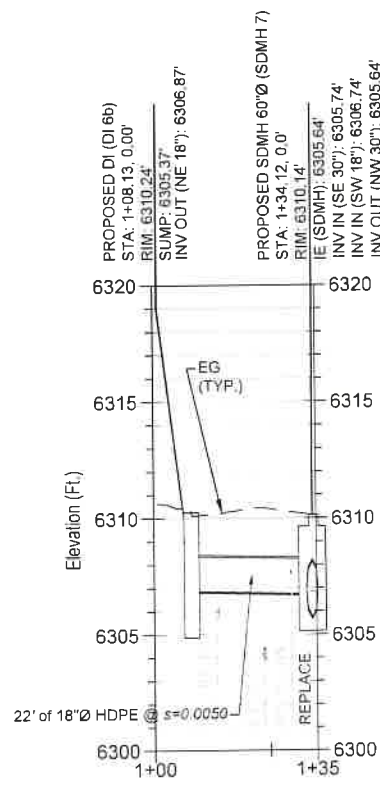
SD-L1A PROFILE
STA: 1+00.00 TO STA: 1+65.00
SEE SHEET C-2 FOR SD PLAN VIEW



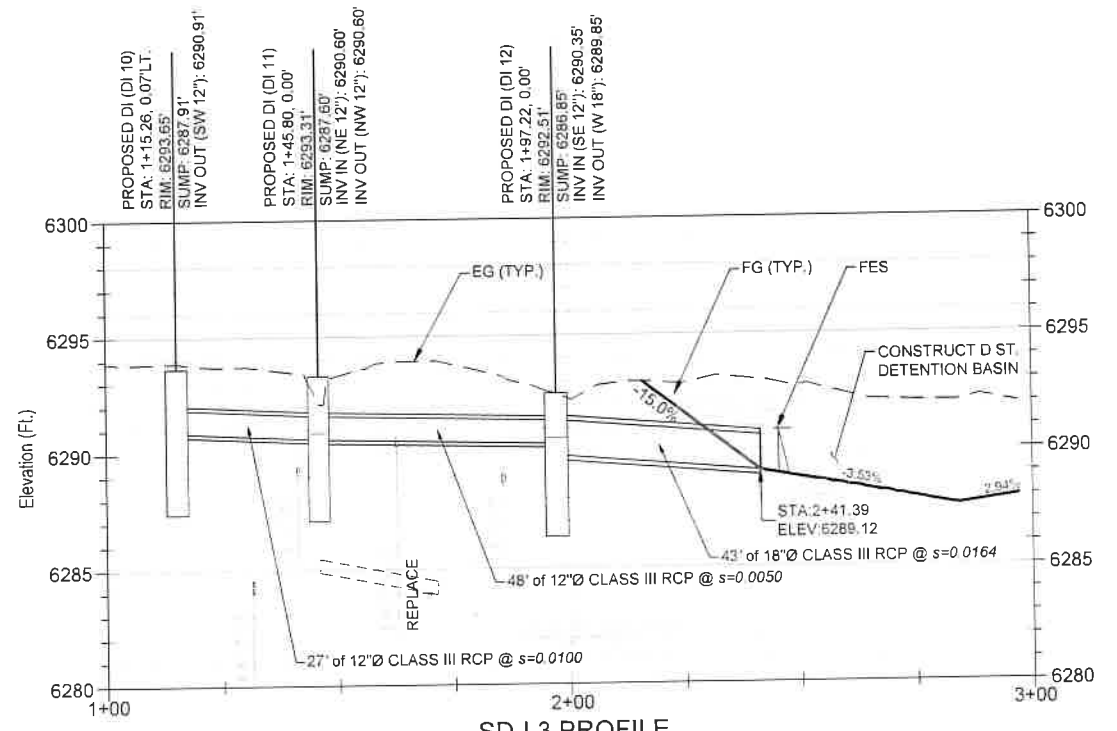
SD-L2 PROFILE
STA: 1+00.00 TO STA: 2+00.00
SEE SHEET C-2, C-3 FOR SD PLAN VIEW



SD-L2A PROFILE
STA: 1+00.00 TO STA: 1+50.00
SEE SHEET C-3 FOR SD PLAN VIEW



SD-L2B PROFILE
STA: 1+00.00 TO STA: 1+35.00
SEE SHEET C-3 FOR SD PLAN VIEW



SD-L3 PROFILE
STA: 1+00.00 TO STA: 3+00.00
SEE SHEET C-6 FOR SD PLAN VIEW



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STORM DRAIN LATERAL PROFILES SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

DATE	DESCRIPTION	BY
5/15/23	EX. UTILITY UPDATES AND SD REVISIONS	IT
01/08/23	EX. UTILITY UPDATES AND SD REVISIONS	IT



DATE: 1 FEB 2023
DRAWN: BT
DESIGNED: JT / JG
CHECKED: JD / EM
PROJECT #: E320400600
SHEET TITLE: C-11

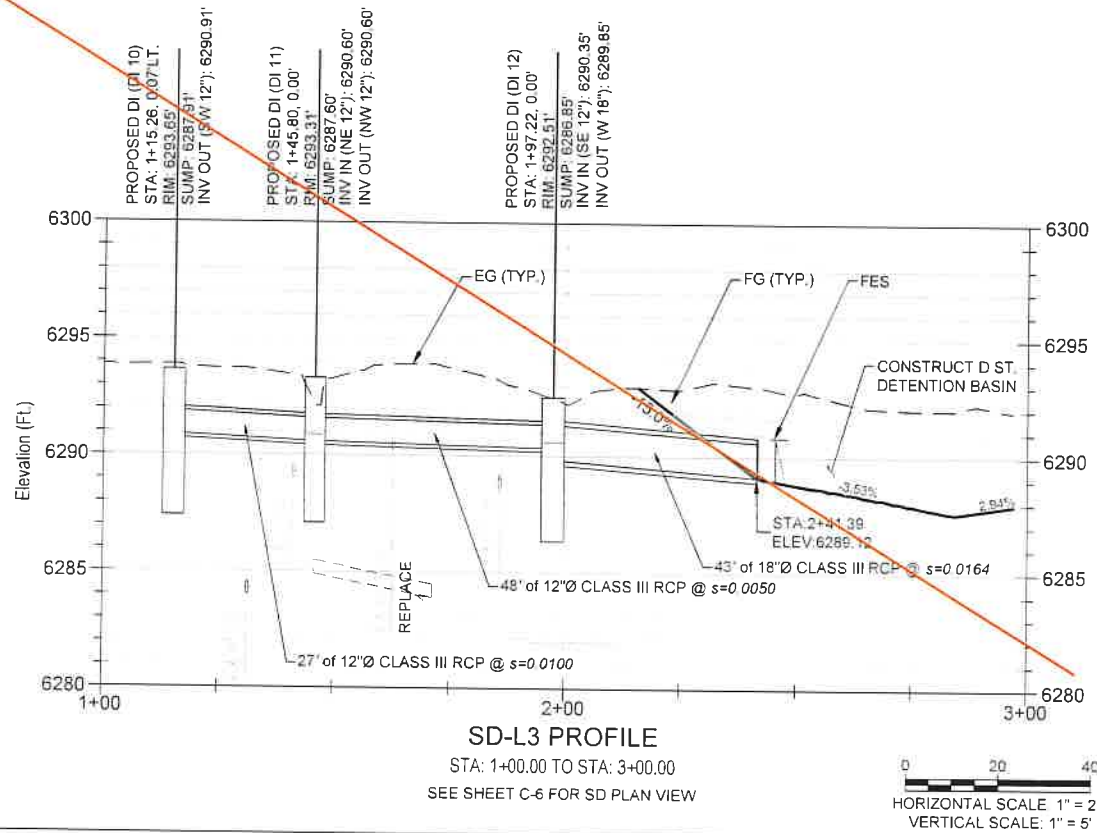
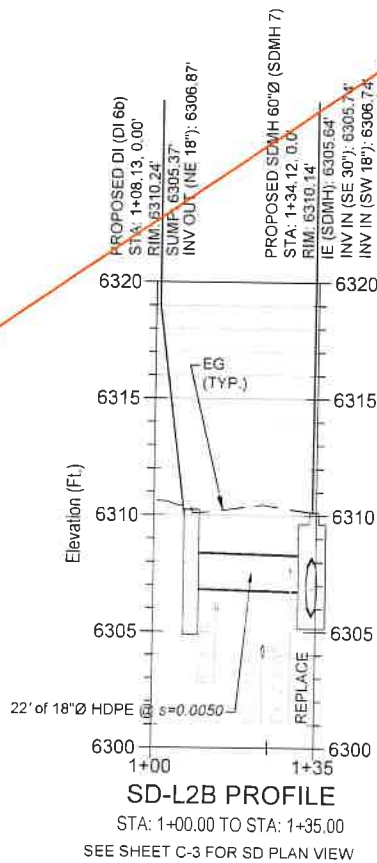
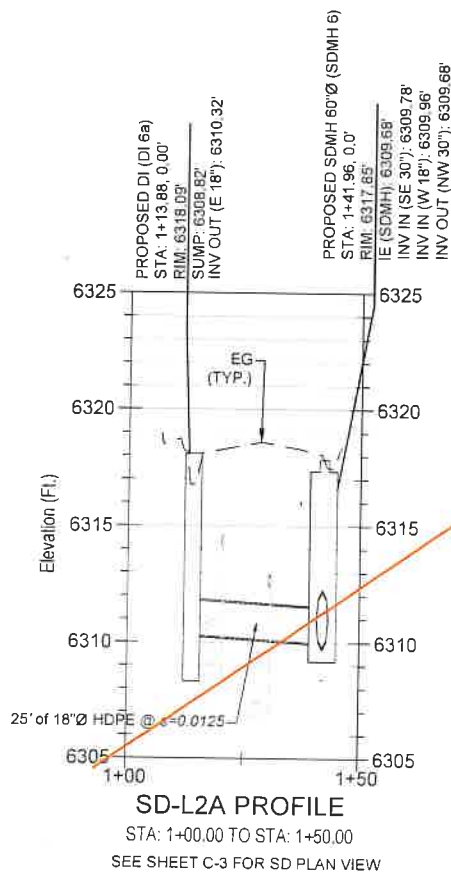
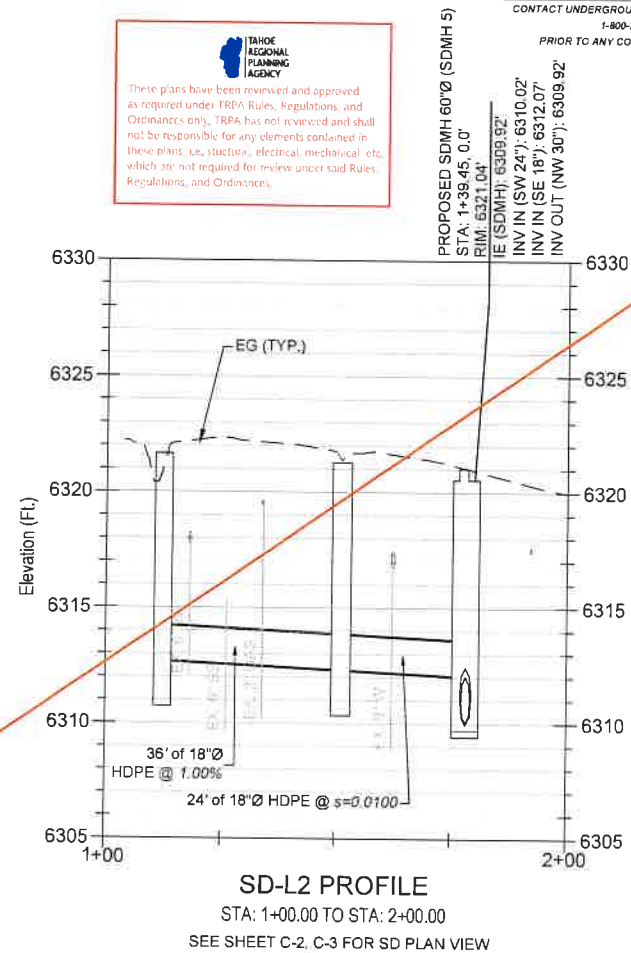
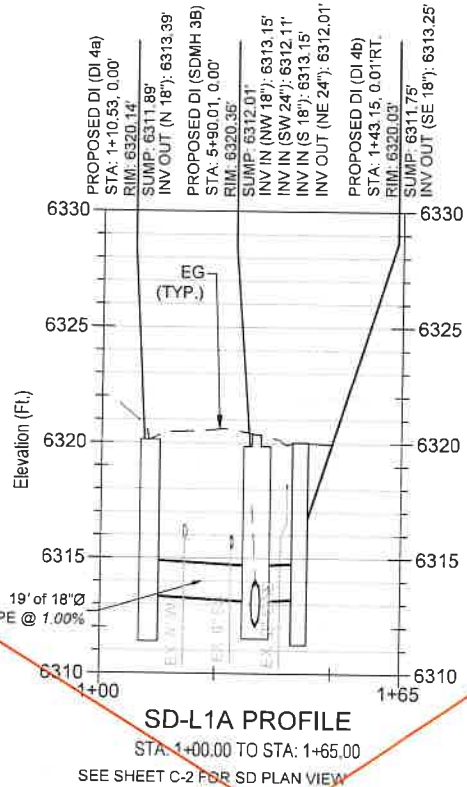
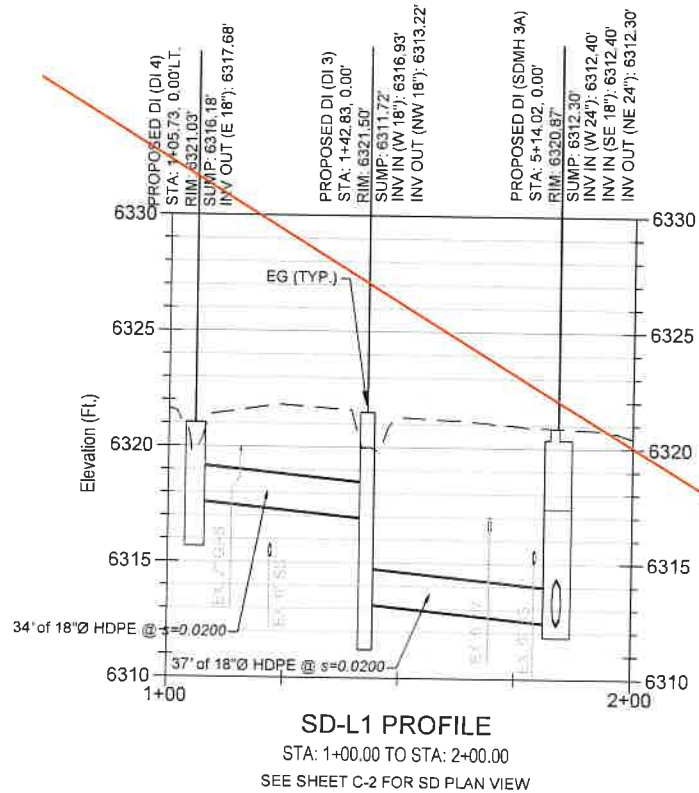
SHEET NUMBER

18



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CONSTRUCTION SET



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PRIOR TO ANY CONSTRUCTION WORK

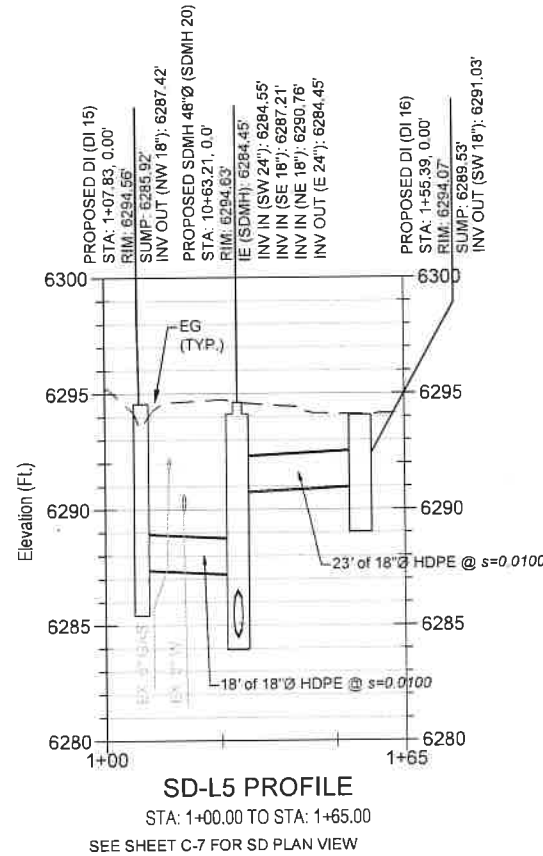
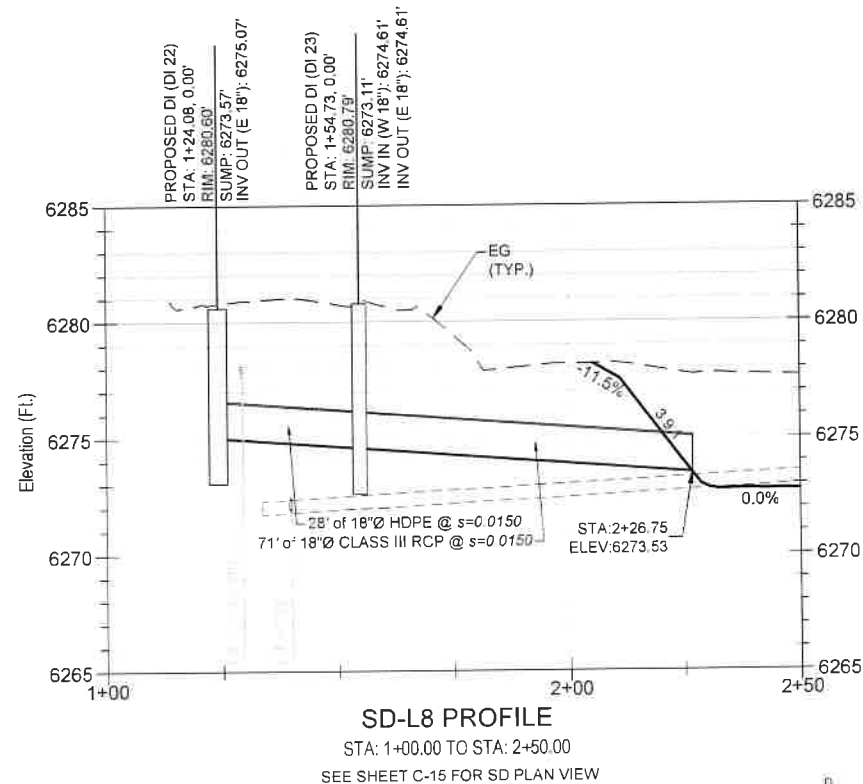
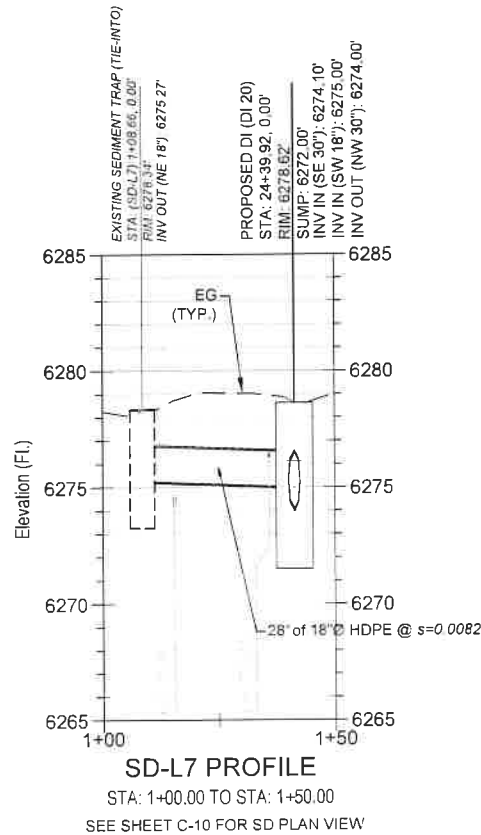
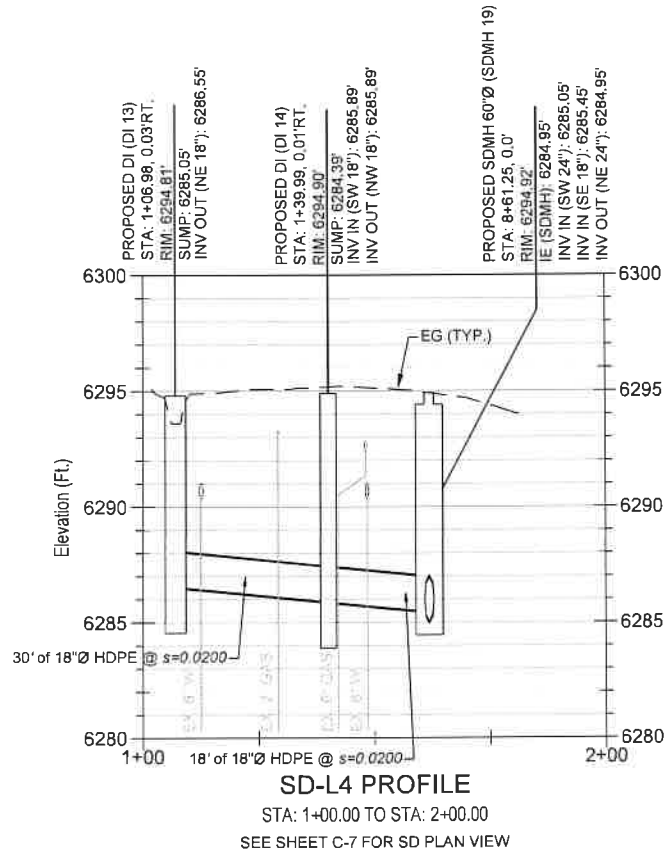
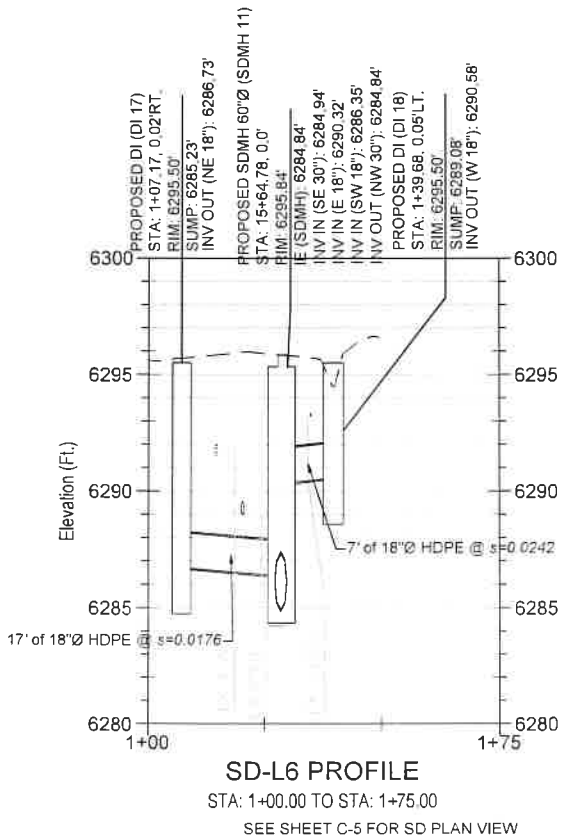


STORM DRAIN LATERAL PROFILES SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION	BY
1	5/13/22	EX. UTILITY UPDATES AND SD REVISIONS	IT
2	01/08/23	EX. UTILITY UPDATES AND SD REVISIONS	IT



DATE	FEB 2023
DRAWN	ET
DESIGNED	IT / JD
CHECKED	JD / EM
PROJECT #	E320402000
SHEET TITLE	C-11
SHEET NUMBER	18



*** CALL BEFORE YOU DIG ***
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PRIOR TO ANY CONSTRUCTION WORK



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HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

CONSTRUCTION SET

#	DATE	DESCRIPTION	BY
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2	01/08/23	EX UTILITY UPDATES AND SD REVISIONS	IT

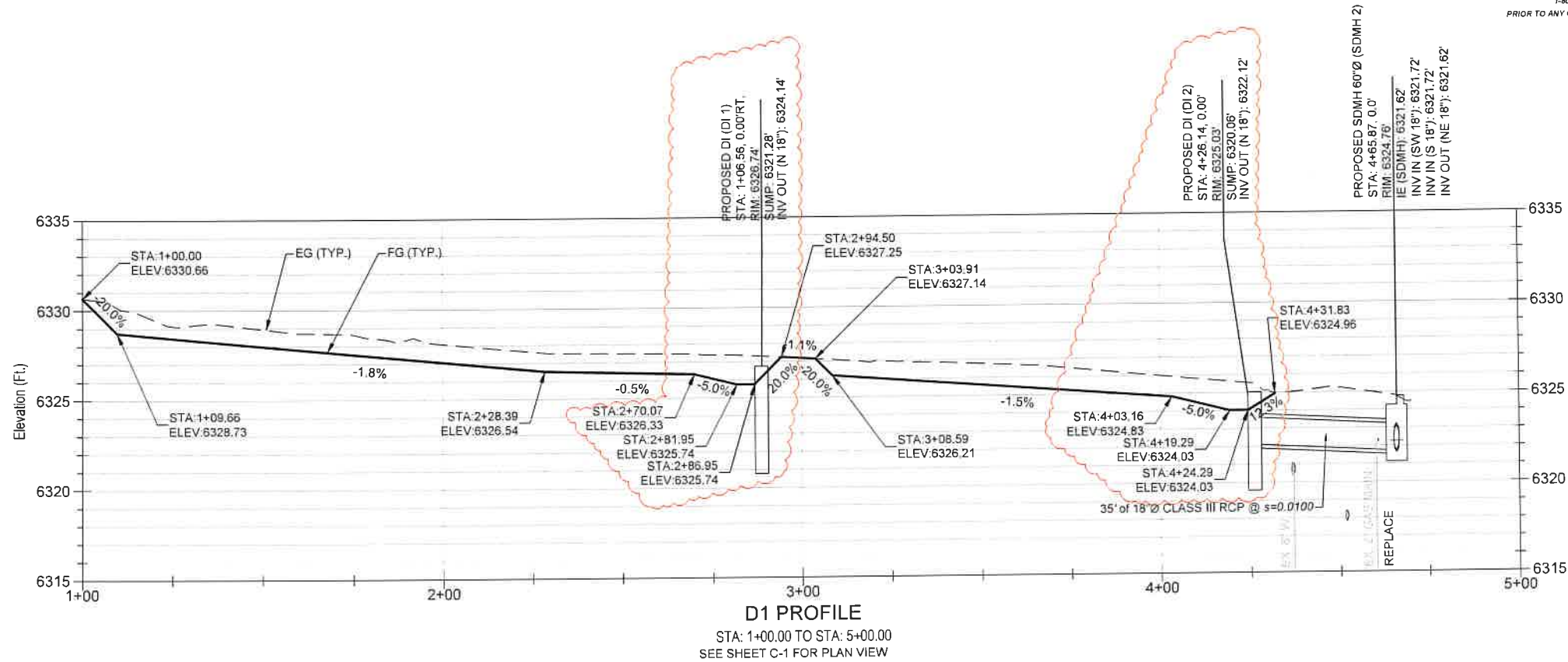
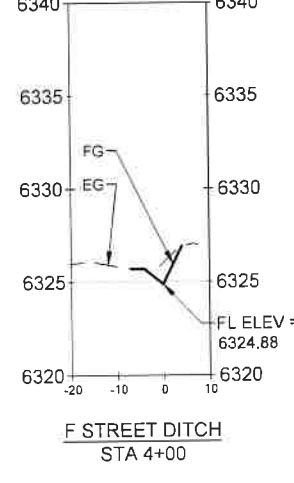
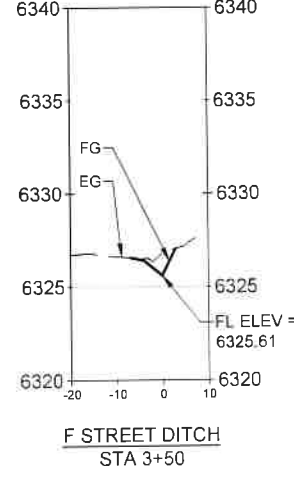
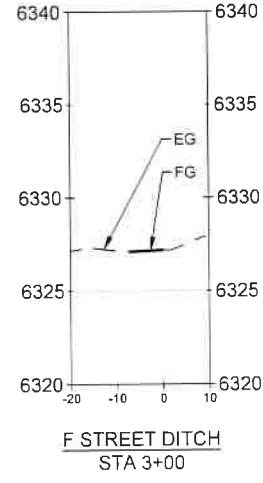
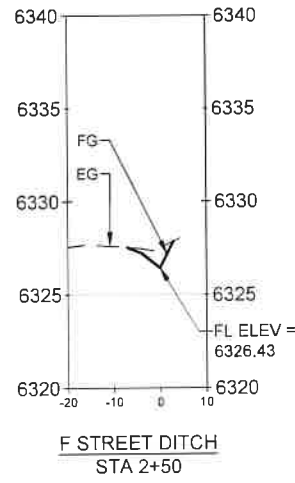
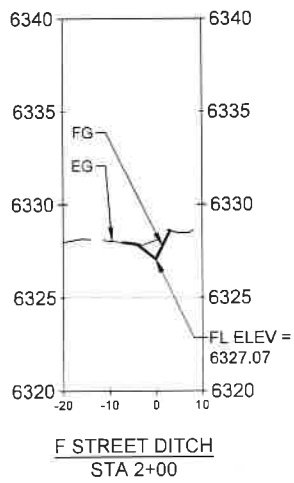
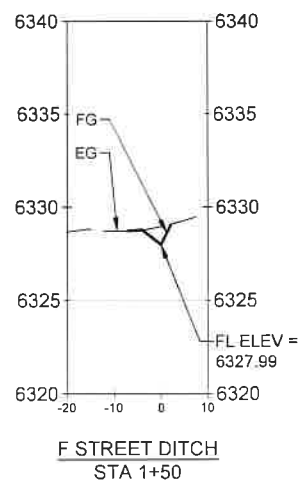
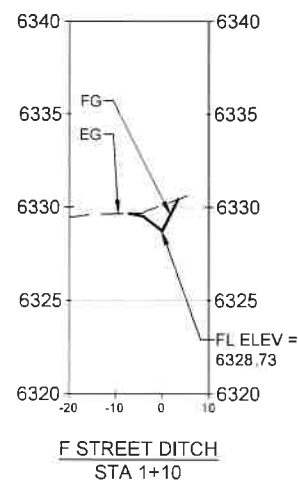


DATE: 1 FEB 2023
DRAWN: 1 ET
DESIGNED: 1 IT / JD
CHECKED: 1 JD / EM
PROJECT #: 1 E32040600
SHEET TITLE: C-12
SHEET NUMBER

STORM DRAIN LATERAL PROFILES SHEET 2
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

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Plot Stamp: 5/2/2023 12:02 PM - Trullo, Ivan
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CONSTRUCTION SET

#	DATE	DESCRIPTION	BY
1	5/13/22	E.L. UTILITY UPDATE, AND 3D REVISIONS	IT
2	5/10/23	E.L. UTILITY UPDATE, AND 3D REVISIONS	IT



DATE: 1 FEB 2023
DRAWN: 1 ET
DESIGNED: 1 IT / JD
CHECKED: 1 JD / BM
PROJECT #: 1 E32040600

SHEET TITLE

C-13

SHEET NUMBER

20

F STREET DITCH PROFILE AND SECTIONS
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

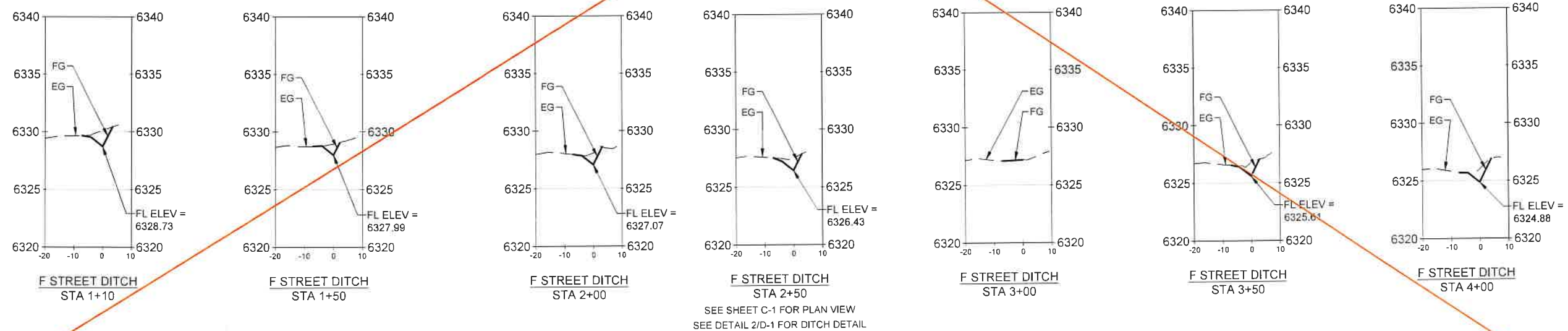
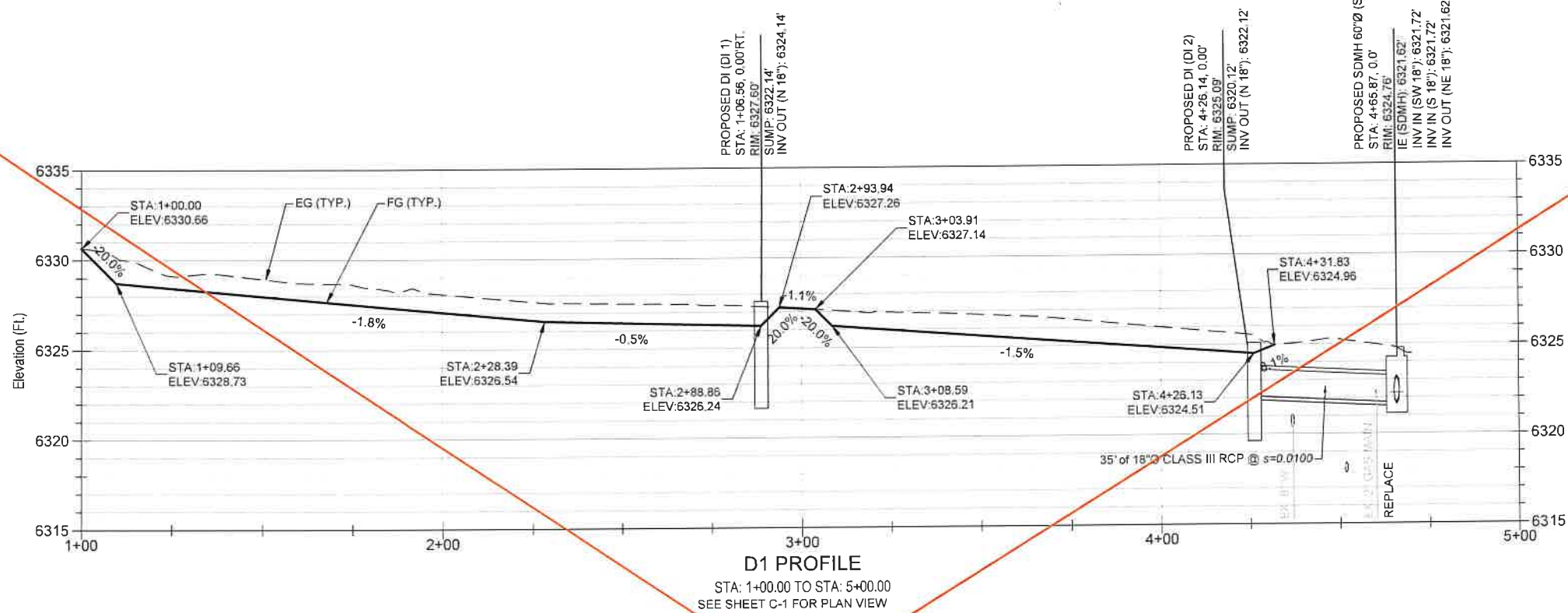


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0 20 40
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

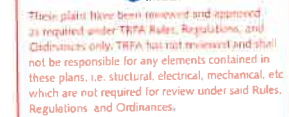
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F STREET DITCH PROFILE AND SECTIONS
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

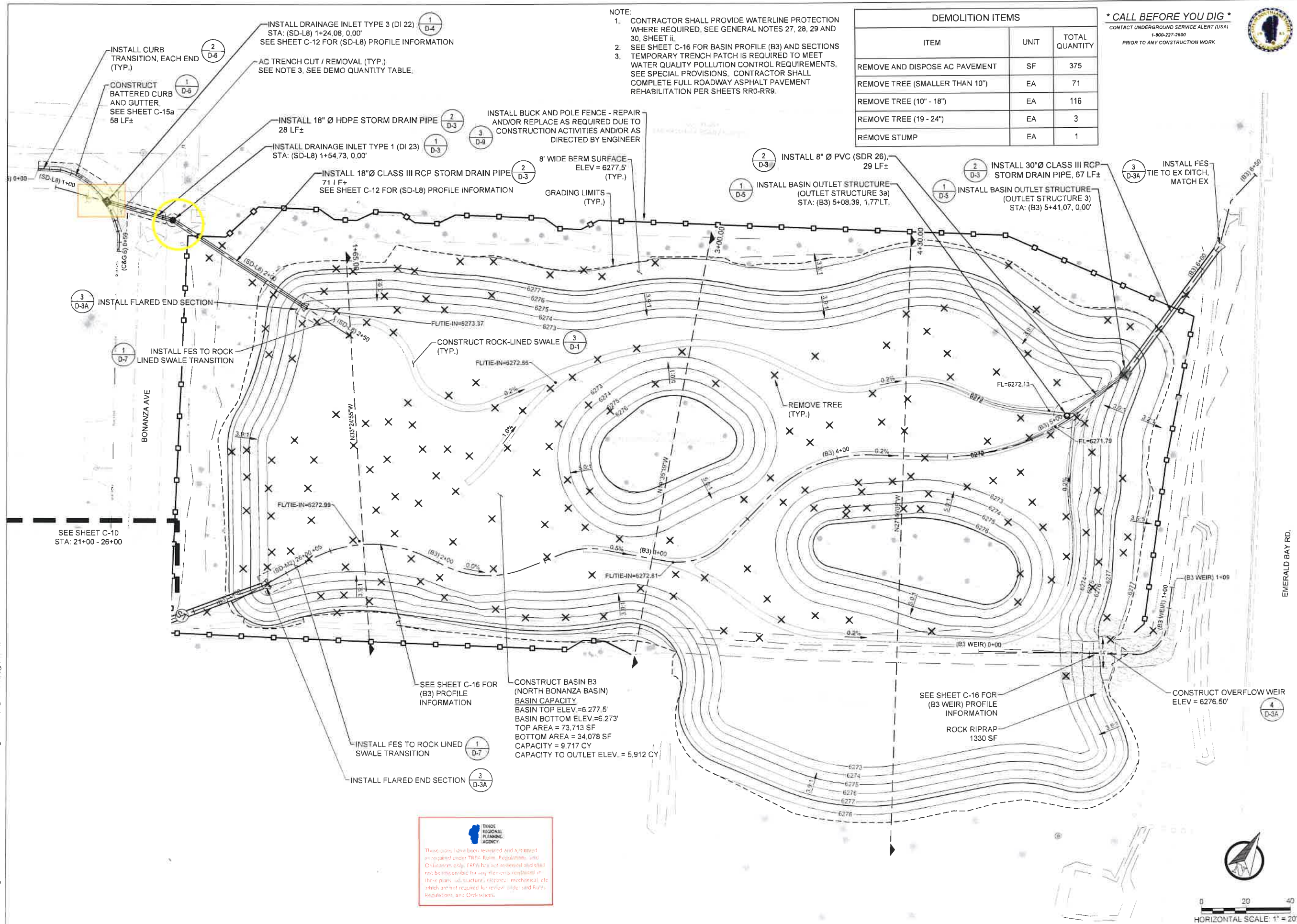
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2	01/08/23	EX. UTILITY UPDATES AND SO REVISIONS	IT



DATE: 1 FEB 2023
DRAWN: I ET
DESIGNED: I IT / JD
CHECKED: I JD / BM
PROJECT # 1 E320406500
SHEET TITLE: C-13
SHEET NUMBER



21



- NOTE:
1. CONTRACTOR SHALL PROVIDE WATERLINE PROTECTION WHERE REQUIRED. SEE GENERAL NOTES 27, 28, 29 AND 30, SHEET II.
 2. SEE SHEET C-16 FOR BASIN PROFILE (B3) AND SECTIONS.
 3. TEMPORARY TRENCH PATCH IS REQUIRED TO MEET WATER QUALITY POLLUTION CONTROL REQUIREMENTS. SEE SPECIAL PROVISIONS. CONTRACTOR SHALL COMPLETE FULL ROADWAY ASPHALT PAVEMENT REHABILITATION PER SHEETS RR0-RR9.

DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
REMOVE AND DISPOSE AC PAVEMENT	SF	375
REMOVE TREE (SMALLER THAN 10")	EA	71
REMOVE TREE (10" - 18")	EA	116
REMOVE TREE (19" - 24")	EA	3
REMOVE STUMP	EA	1

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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**BONANZA AVENUE NORTH BASIN PLAN
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA**

DATE	DESCRIPTION	BY



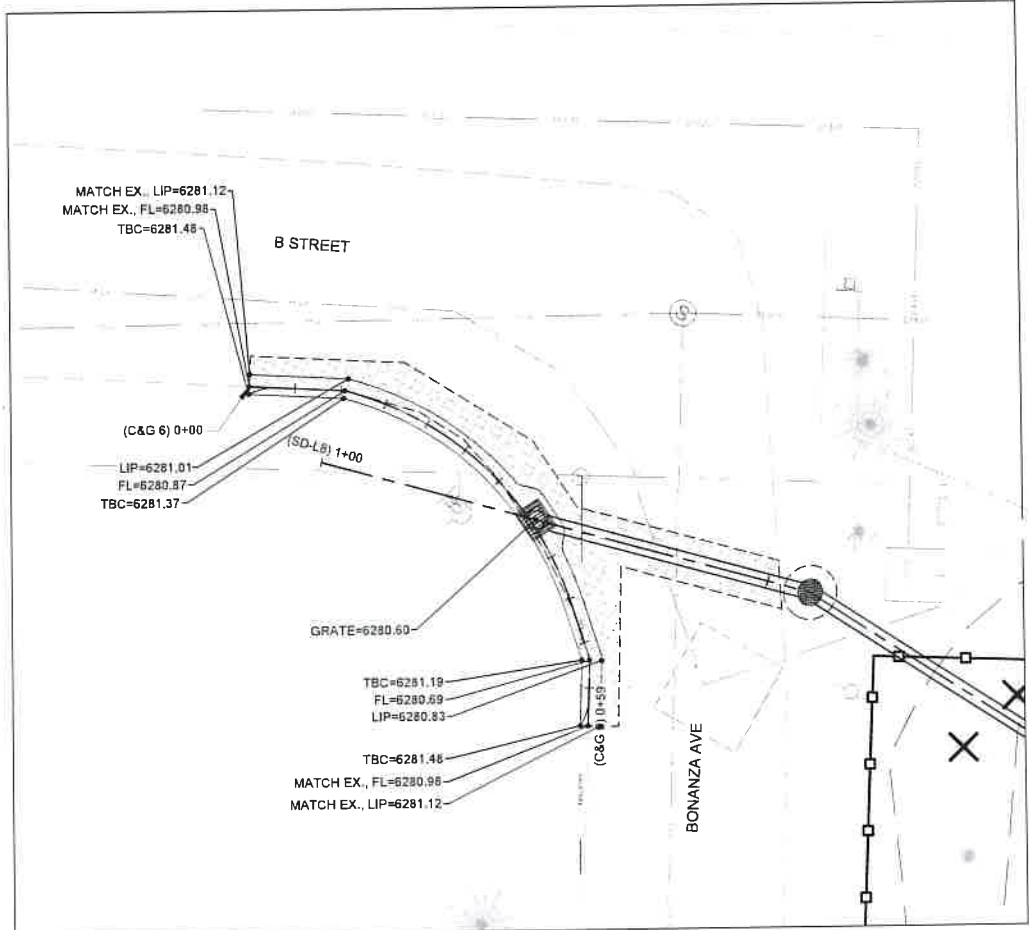
DATE	1 FEB 2023
DRAWN	I ET
DESIGNED	I JT / JD
CHECKED	I JD / BM
PROJECT #	E32040600
SHEET TITLE	C-15
SHEET NUMBER	22

CONSTRUCTION SET

HORIZONTAL SCALE: 1" = 20'

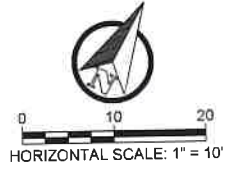
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* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK

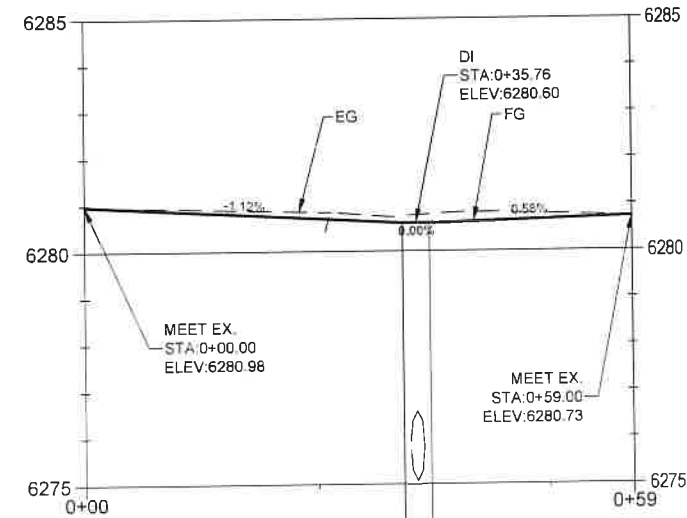


CURB AND GUTTER GRADING
B STREET AND BONANZA AVENUE

- NOTES:
1. CAD LINEWORK AND ALIGNMENTS WILL BE PROVIDED TO CONTRACTOR.
 2. LINE AND CURVE INFORMATION AND STATION OFFSETS FOR CURB AND GUTTER CONSTRUCTION MAY BE AVAILABLE UPON REQUEST.



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C&G 6 FLOWLINE PROFILE

STA: 0+00.00 TO STA: 0+59.00

CONSTRUCTION SET

BY	DATE	DESCRIPTION

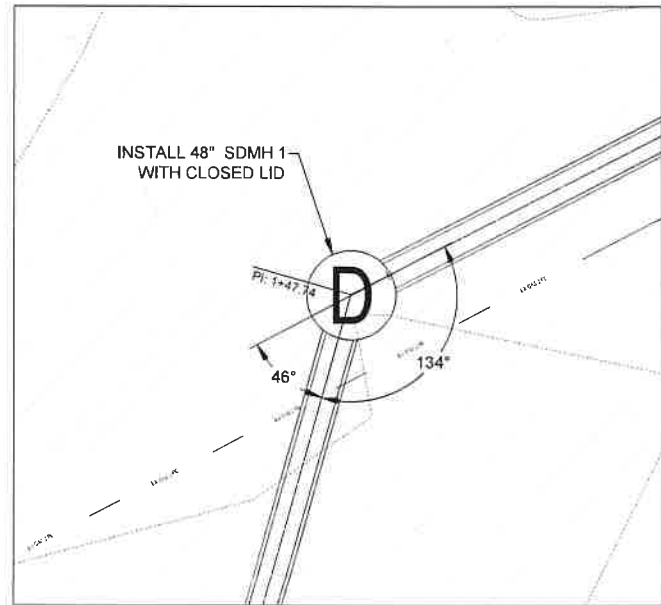


DATE	1 FEB 2023
DRAWN	1 ET
DESIGNED	1 IT / JO
CHECKED	1 JO / BM
PROJECT #	1 E32040600
SHEET TITLE	C-15a
SHEET NUMBER	

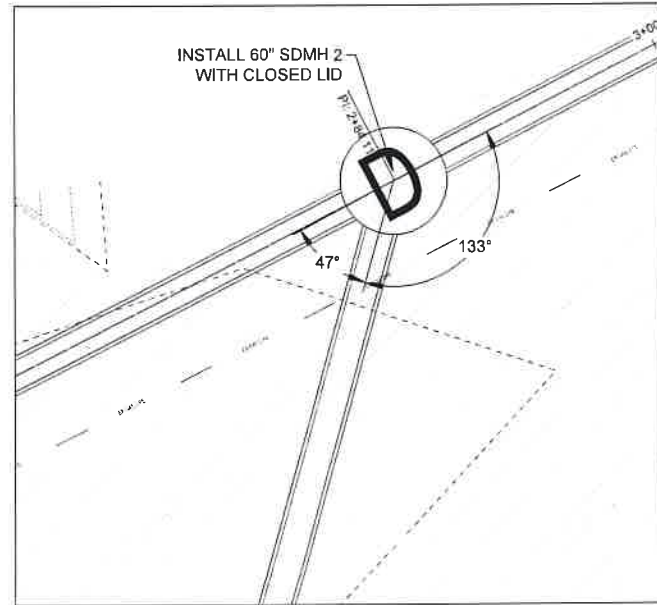
B STREET INTERSECTION
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

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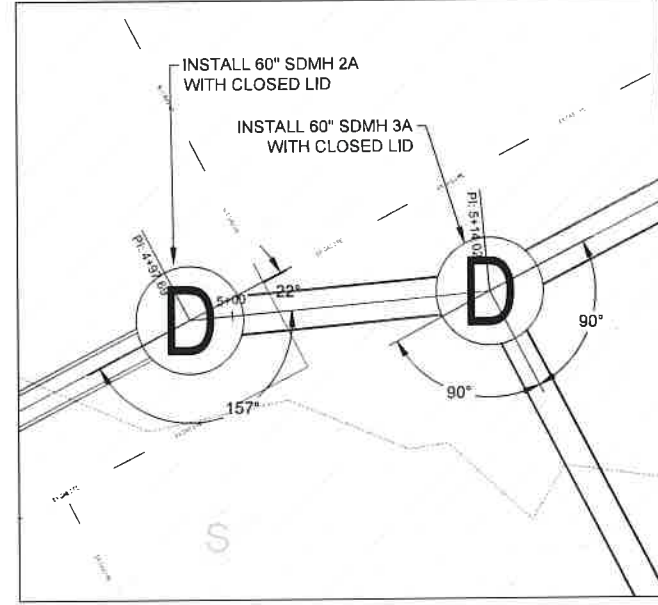
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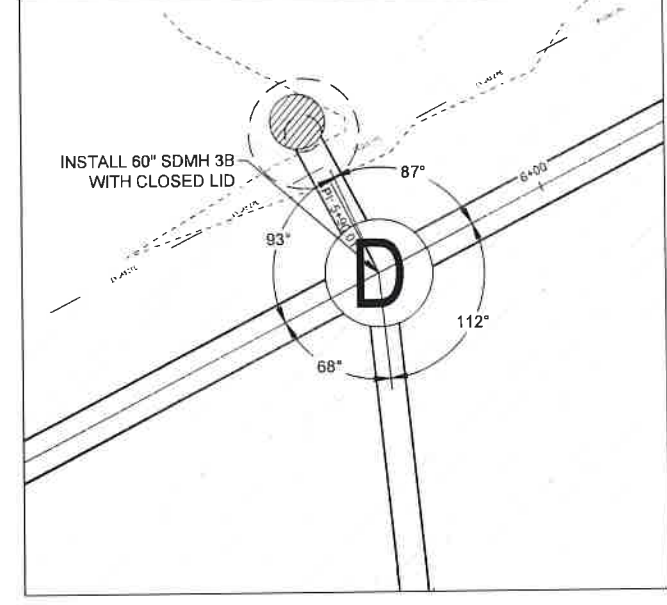
SDMH 1, SEE SHEET C-1



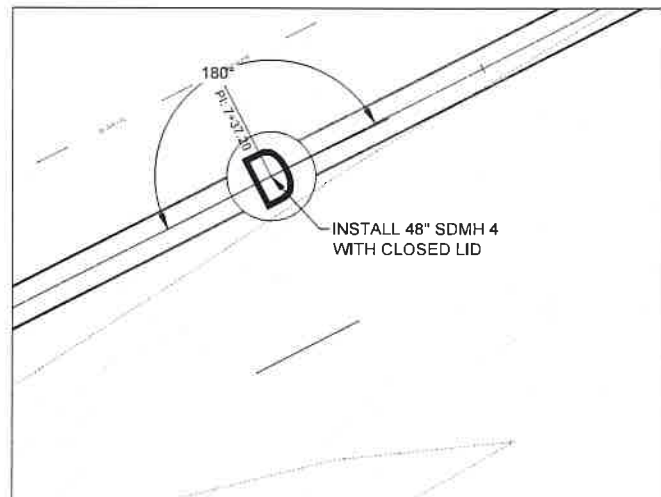
SDMH 2, SEE SHEET C-1



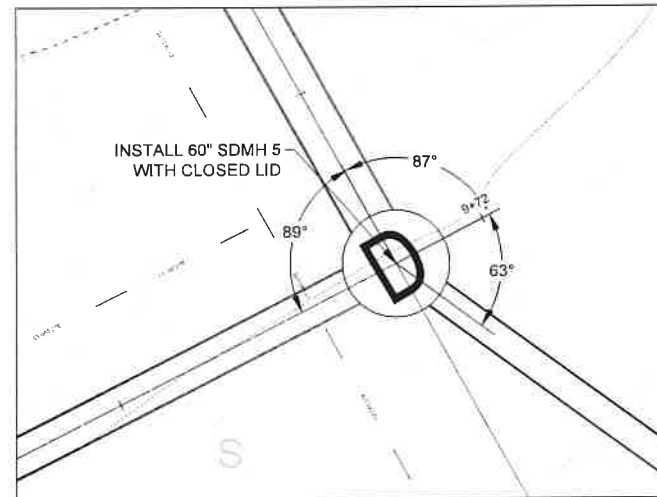
SDMH 2A, 3A, SEE SHEET C-2



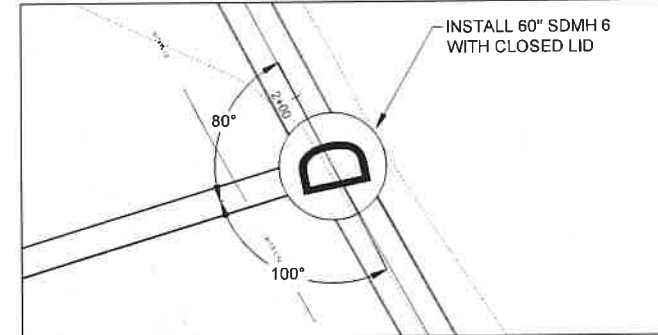
SDMH 3B, SEE SHEET C-2



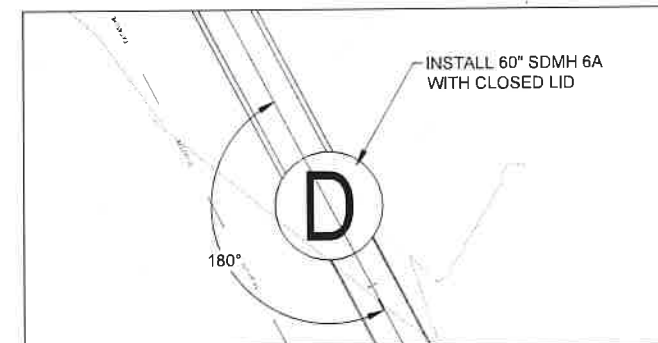
SDMH 4, SEE SHEET C-2



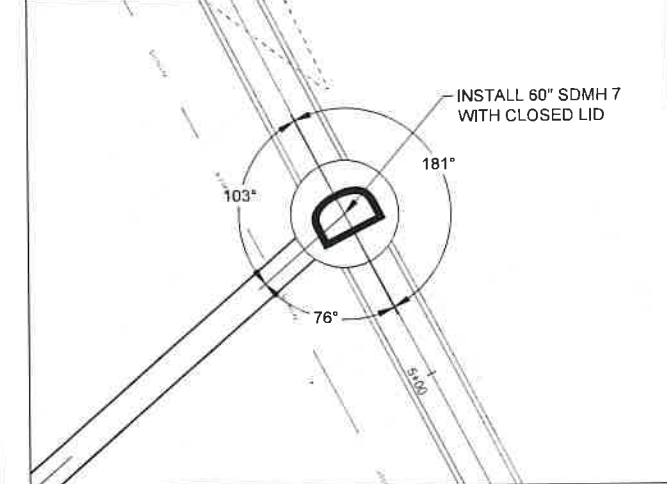
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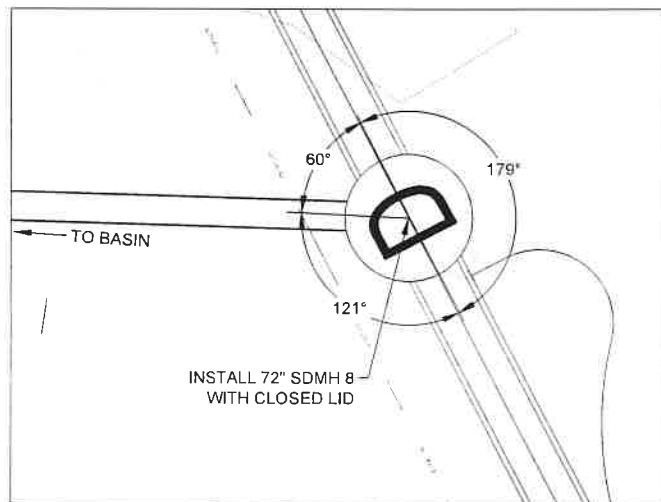
SDMH 6, SEE SHEET C-3



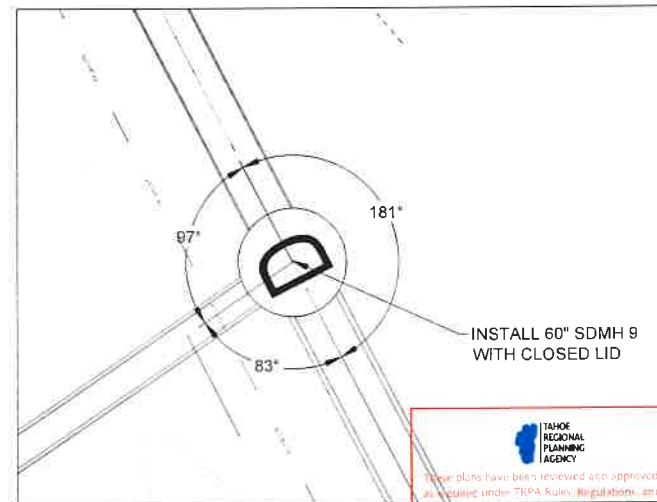
SDMH 6A, SEE SHEET C-3



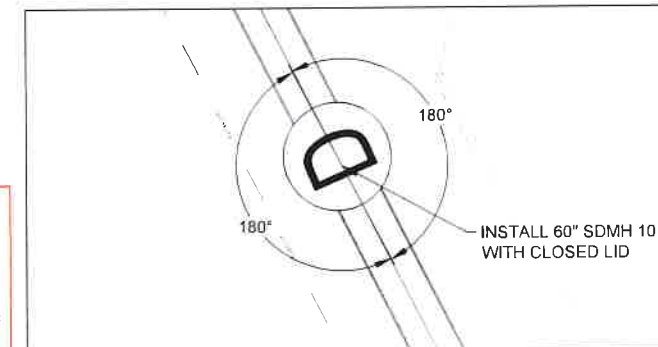
SDMH 7, SEE SHEET C-3



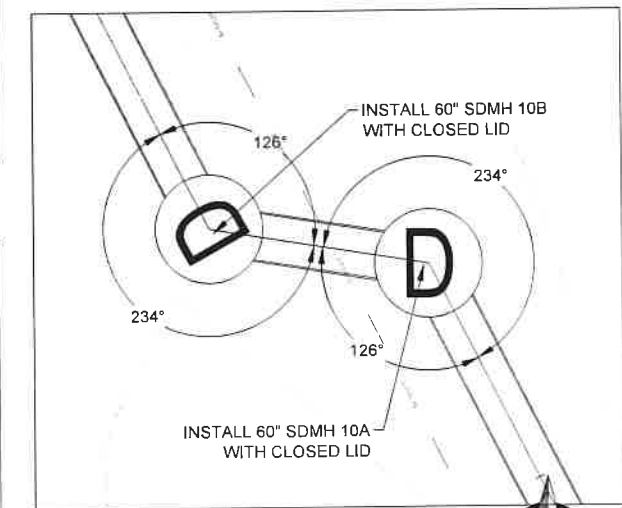
SDMH 8, SEE SHEET C-4



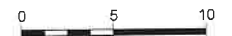
SDMH 9, SEE SHEET C-4



SDMH 10, SEE SHEET C-4



SDMH 10A, B SEE SHEET C-5



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#	DATE	DESCRIPTION	BY
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2	12/16/22	EX. UTILITY UPDATES, AND SD REVISIONS	IT

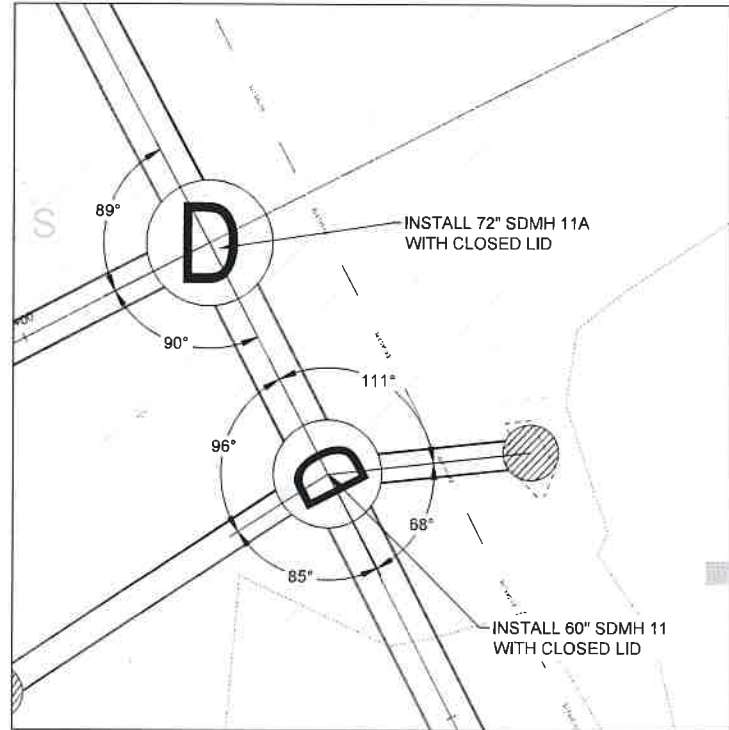


DATE	1 FEB 2023
DRAWN	IT
DESIGNED	IT / JD
CHECKED	JD / RM
PROJECT #	E320400600
SHEET TITLE	C-17
SHEET NUMBER	25

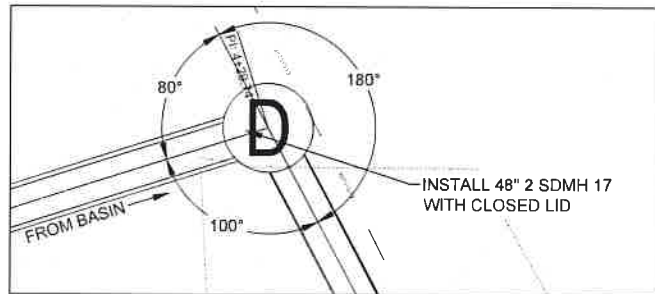
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MANHOLE ALIGNMENTS SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

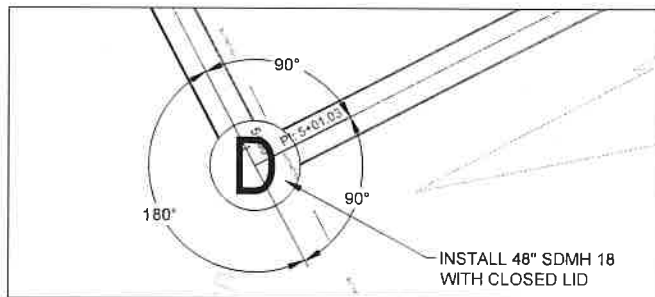
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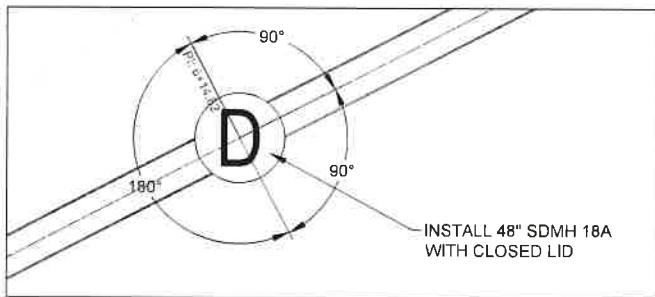
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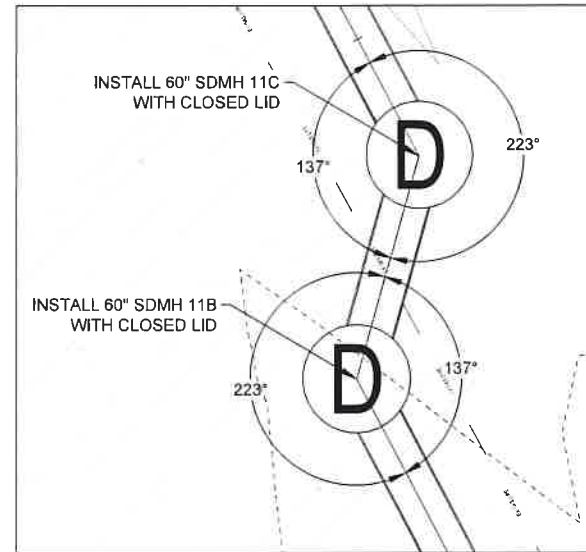
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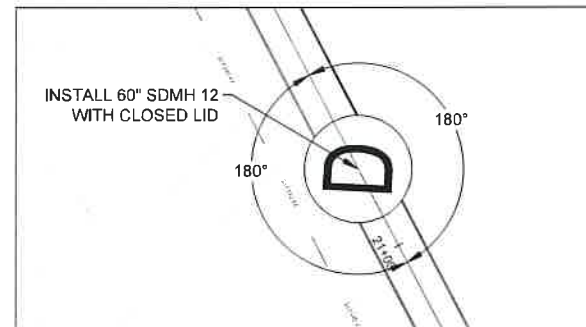
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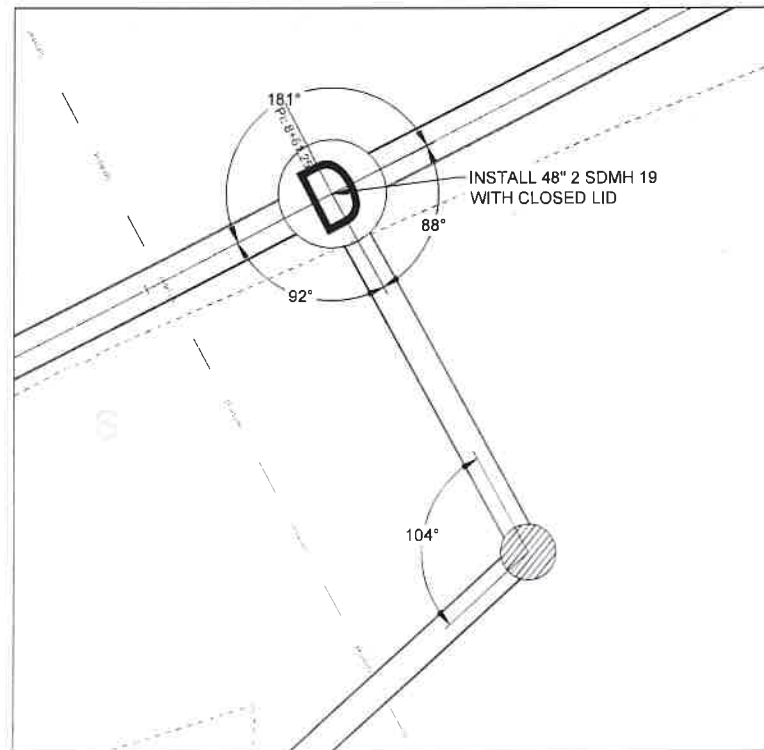
SDMH 18A, SEE SHEET C-7



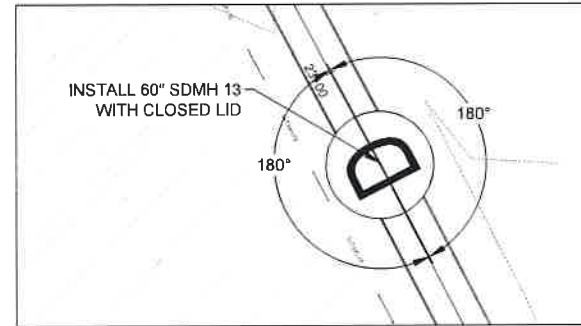
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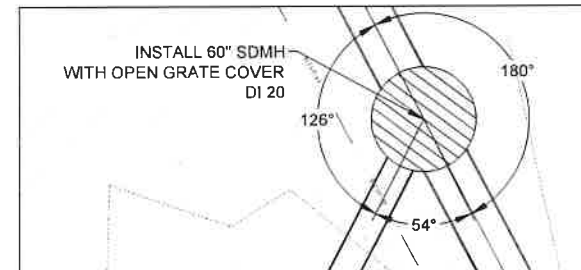
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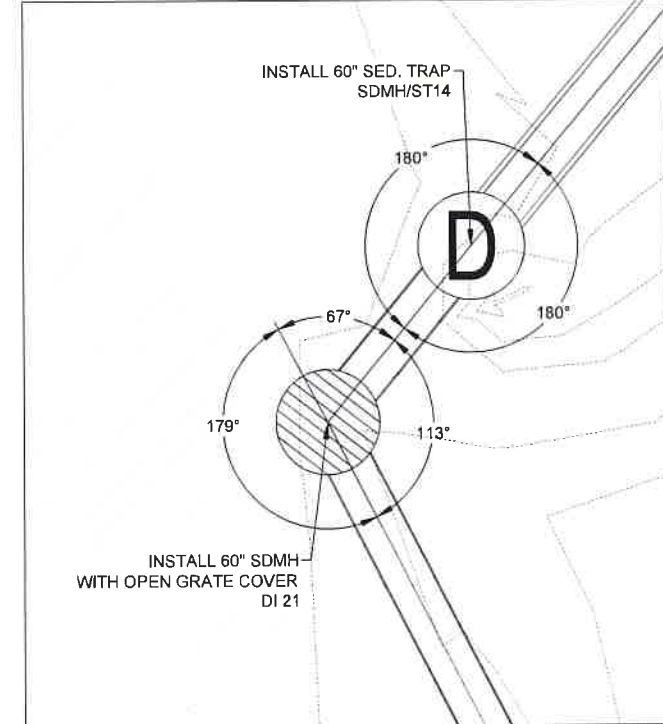
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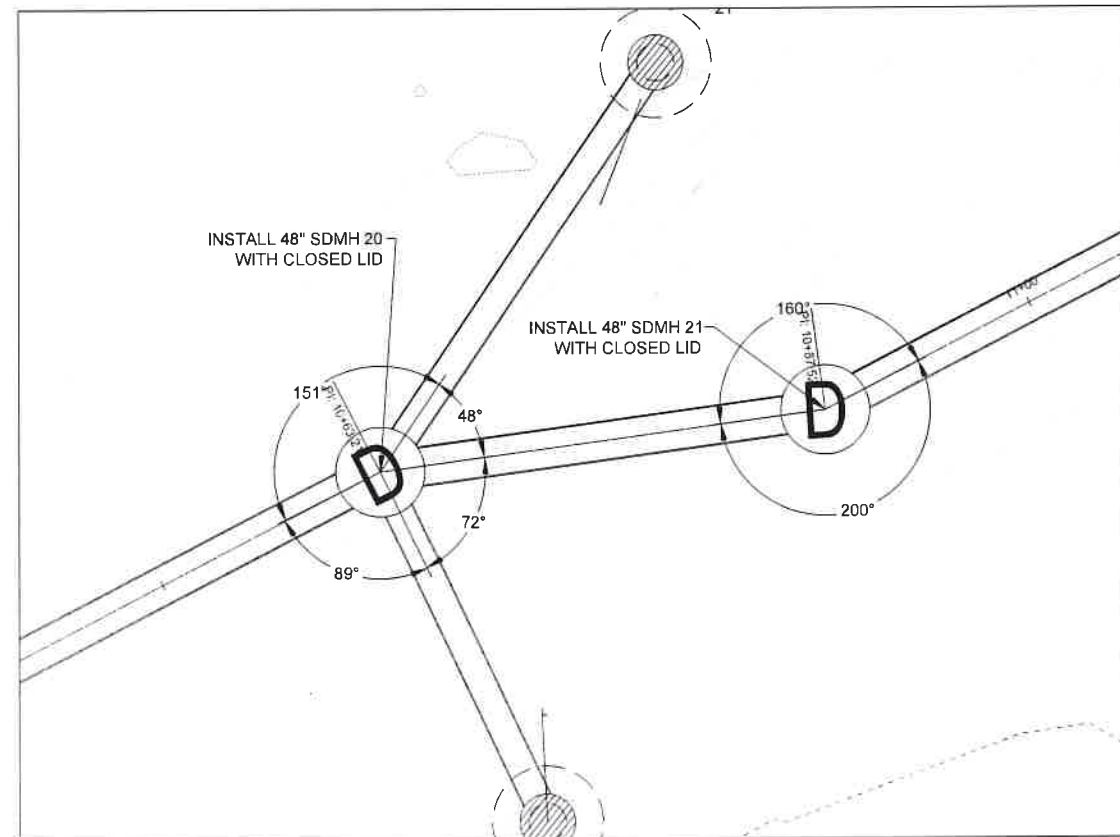
SDMH 13, SEE SHEET C-10



DI 20, SEE SHEET C-10



DI 21, SEE SHEET C-10



SDMH 20, SDMH 21, SEE SHEET C-7

NOTE:
SEE SHEET C-8 FOR STRUCTURES
DI 7, 8, 9, 10, 11, 12

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MANHOLE ALIGNMENTS SHEET 2
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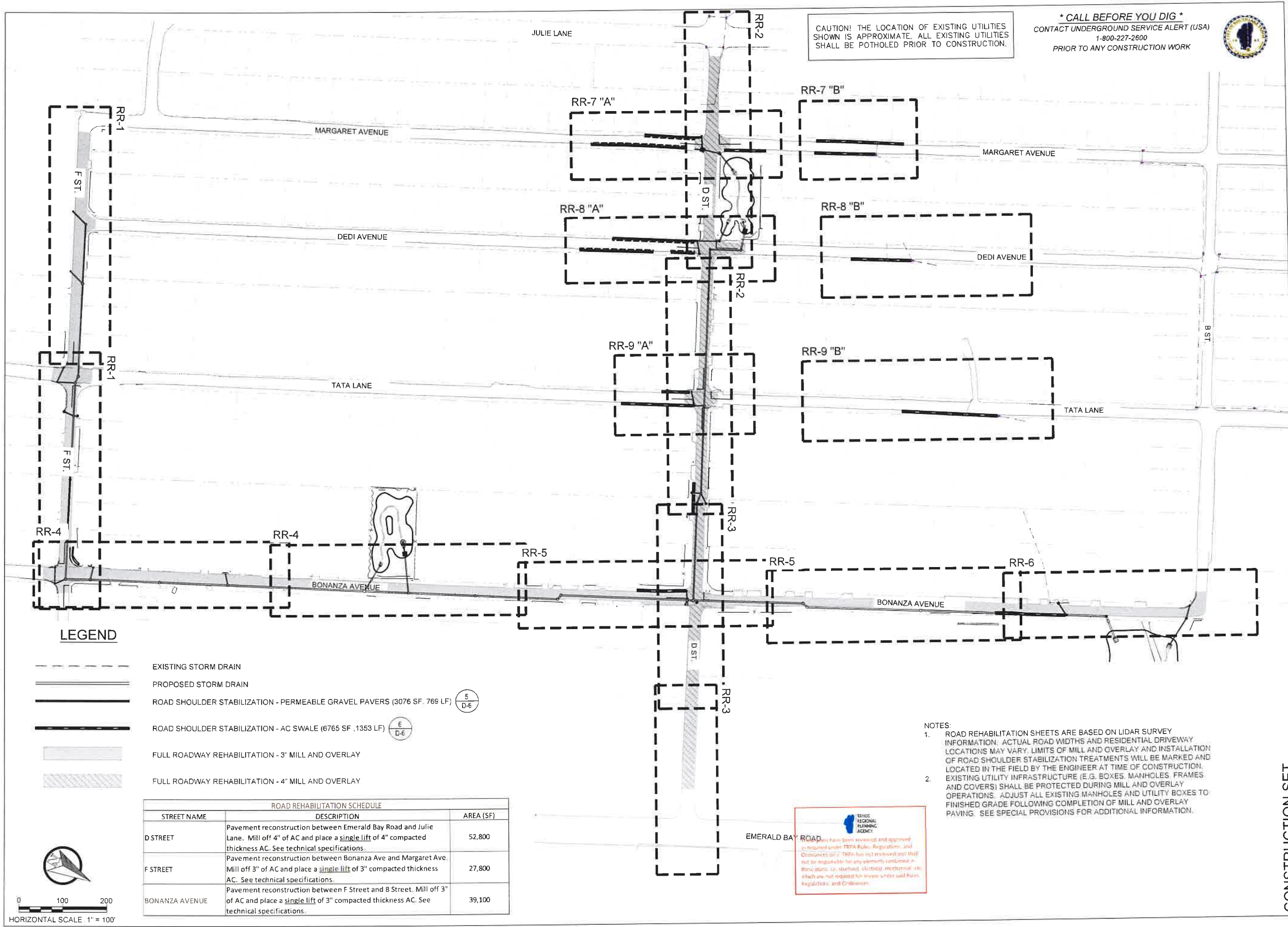
DATE	DESCRIPTION	BY	IT
5/1/22	EX. UTILITY UPDATES AND SD REVISIONS	IT	
12/16/22	EX. UTILITY UPDATES AND SD REVISIONS	IT	



12/16/22

DATE: 12/16/22
DRAWN: ET
DESIGNED: IT / JD
CHECKED: JD / BM
PROJECT #: E320406600
SHEET TITLE: C-18
SHEET NUMBER: 26

Plot Stamp: 2/13/2023 3:55:52 PM - Tujillo Ivan
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ROAD REHABILITATION OVERVIEW
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

BY	DATE	DESCRIPTION



NOTES:
1. ROAD REHABILITATION SHEETS ARE BASED ON LIDAR SURVEY INFORMATION. ACTUAL ROAD WIDTHS AND RESIDENTIAL DRIVEWAY LOCATIONS MAY VARY. LIMITS OF MILL AND OVERLAY AND INSTALLATION OF ROAD SHOULDER STABILIZATION TREATMENTS WILL BE MARKED AND LOCATED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION.
2. EXISTING UTILITY INFRASTRUCTURE (E.G. BOXES, MANHOLES, FRAMES AND COVERS) SHALL BE PROTECTED DURING MILL AND OVERLAY OPERATIONS. ADJUST ALL EXISTING MANHOLES AND UTILITY BOXES TO FINISHED GRADE FOLLOWING COMPLETION OF MILL AND OVERLAY PAVING. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

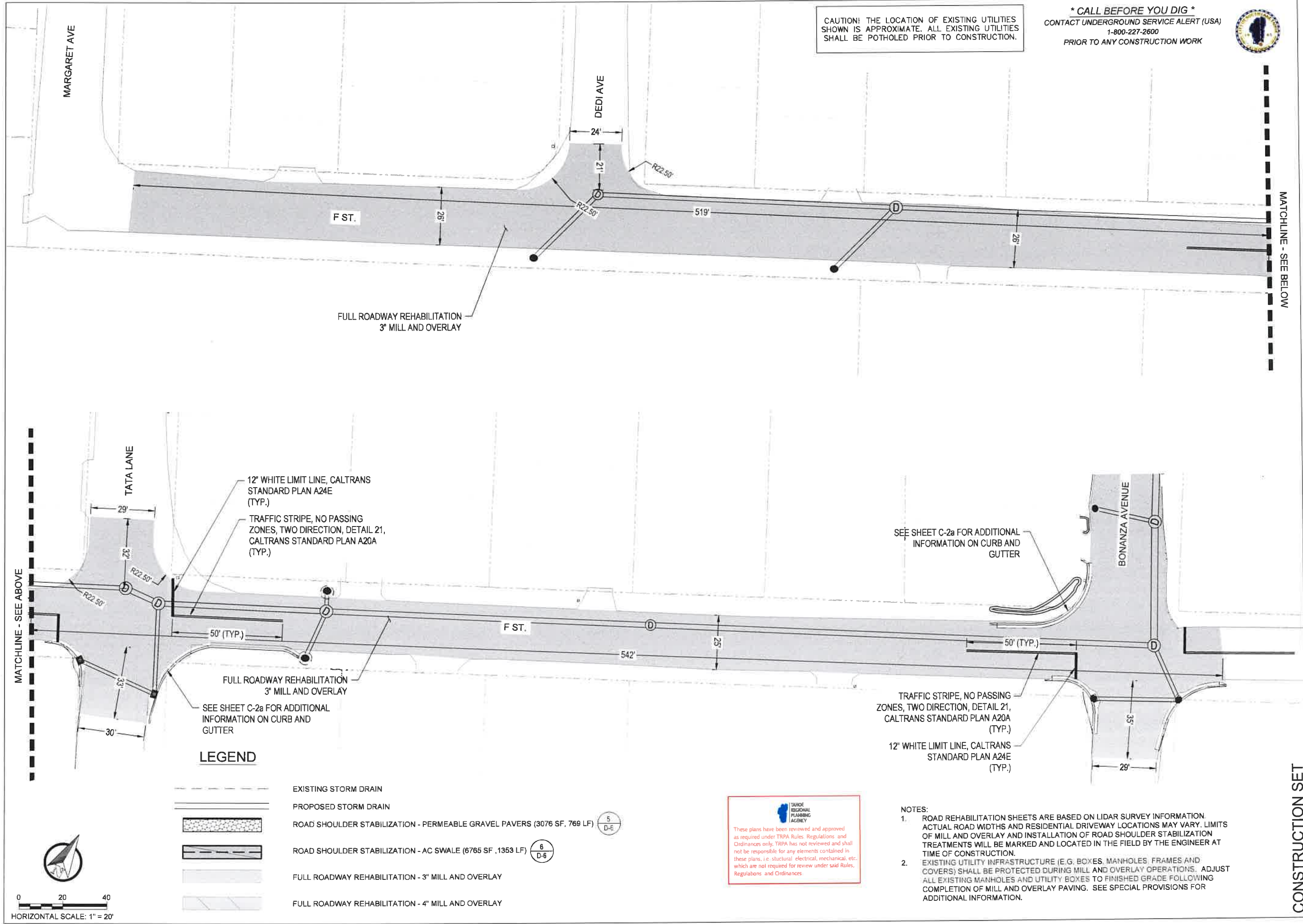
EMERALD BAY ROAD
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ROAD REHABILITATION SCHEDULE		
STREET NAME	DESCRIPTION	AREA (SF)
D STREET	Pavement reconstruction between Emerald Bay Road and Julie Lane. Mill off 4" of AC and place a <u>single lift</u> of 4" compacted thickness AC. See technical specifications.	52,800
F STREET	Pavement reconstruction between Bonanza Ave and Margaret Ave. Mill off 3" of AC and place a <u>single lift</u> of 3" compacted thickness AC. See technical specifications.	27,800
BONANZA AVENUE	Pavement reconstruction between F Street and B Street. Mill off 3" of AC and place a <u>single lift</u> of 3" compacted thickness AC. See technical specifications.	39,100

CONSTRUCTION SET

DATE	1 FEB 2023
DRAWN	IST
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600
SHEET TITLE	RR-0
SHEET NUMBER	27

Plot Stamp: 2/13/2023 4:00:11 PM - Tujillo, Ivan
File: U:\237860\401107_Initial\15 CAD\Phase 11 DWG\3 Sheets\TVGS_RoadShoulder-PLAN.dwg, Tab: RR-1



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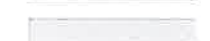

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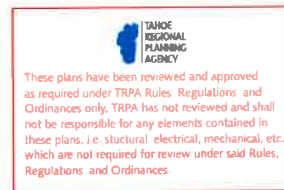
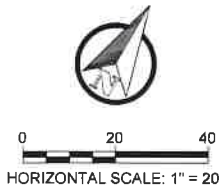


MATCHLINE - SEE BELOW

MATCHLINE - SEE ABOVE

LEGEND

-  EXISTING STORM DRAIN
-  PROPOSED STORM DRAIN
-  ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF)
-  ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF)
-  FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
-  FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY



- NOTES:
- ROAD REHABILITATION SHEETS ARE BASED ON LIDAR SURVEY INFORMATION. ACTUAL ROAD WIDTHS AND RESIDENTIAL DRIVEWAY LOCATIONS MAY VARY. LIMITS OF MILL AND OVERLAY AND INSTALLATION OF ROAD SHOULDER STABILIZATION TREATMENTS WILL BE MARKED AND LOCATED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION.
 - EXISTING UTILITY INFRASTRUCTURE (E.G. BOXES, MANHOLES, FRAMES AND COVERS) SHALL BE PROTECTED DURING MILL AND OVERLAY OPERATIONS. ADJUST ALL EXISTING MANHOLES AND UTILITY BOXES TO FINISHED GRADE FOLLOWING COMPLETION OF MILL AND OVERLAY PAVING. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

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F ST ROAD REHAB SHEET 1 TVSG IMPROVEMENT PROJECT PHASE I CITY OF SOUTH LAKE TAHOE SOUTH LAKE TAHOE, CA

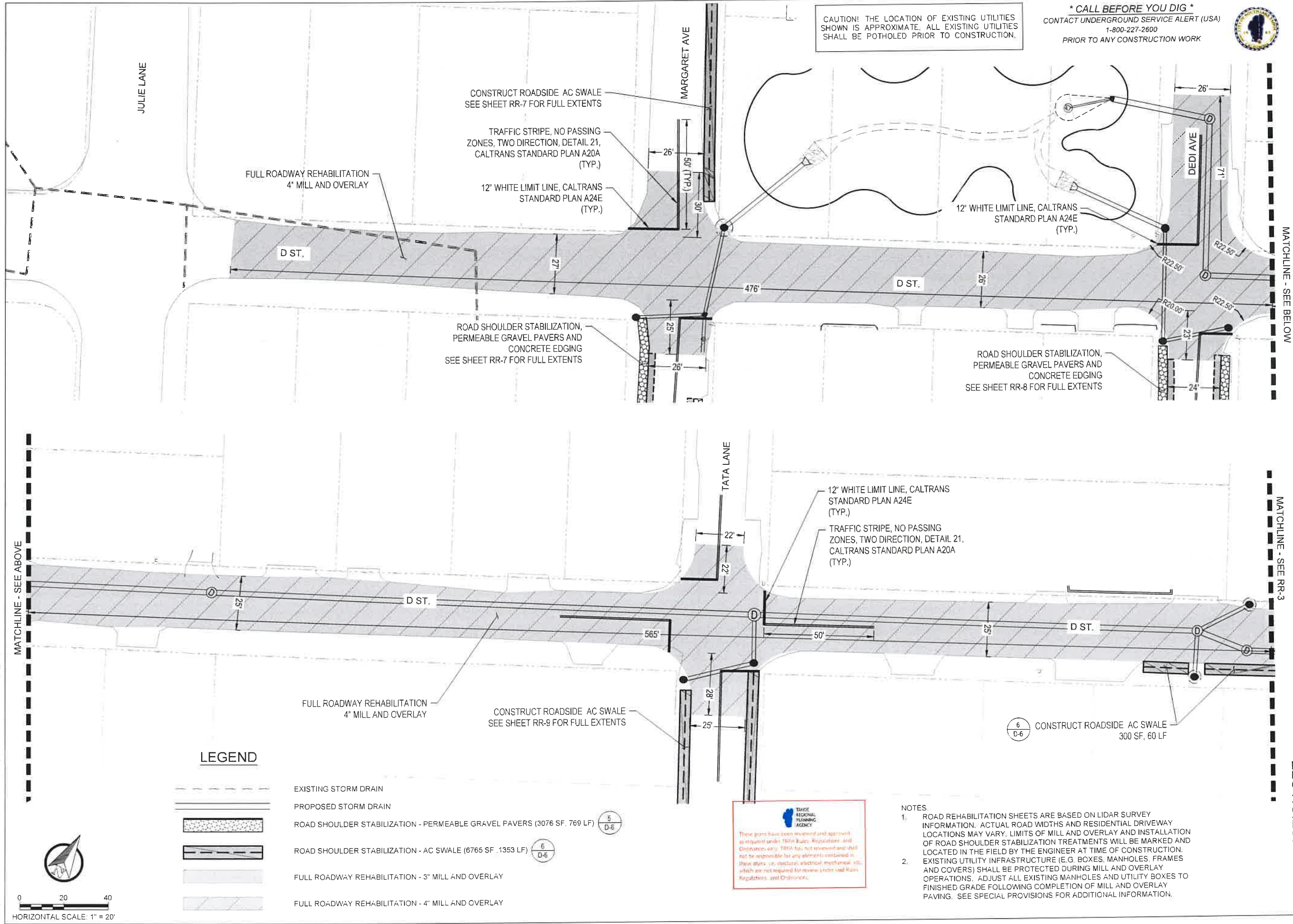
BY	DATE	DESCRIPTION



DATE: FEB 2023
DRAWN: BT
DESIGNED: JT/JD
CHECKED: JD/EM
PROJECT #: E320400500
SHEET TITLE: RR-1
SHEET NUMBER: 28

CONSTRUCTION SET

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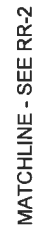
D ST ROAD REHAB SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

DATE	DESCRIPTION



DATE: 1 FEB 2023
DRAWN: I BT
DESIGNED: I JT / JD
CHECKED: I JD / EM
PROJECT #: E230406000
SHEET TITLE: RR-2
SHEET NUMBER: 29

CONSTRUCTION SET



12" WHITE LIMIT LINE, CALTRANS
STANDARD PLAN A24E
(TYP.)

BONANZA AVE

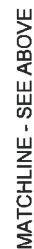
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D ST.

MATCHLINE - SEE BELOW



EXISTING STORM DRAIN
PROPOSED STORM DRAIN

ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF ,1353 LF)

FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY

FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

EMERALD BAY RD

NOTES

- NOTES:
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CONSTRUCTION SET

[illegible]

DATE	FEB 2023
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DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600

SHEET TITLE _____

SHEET NUMBER

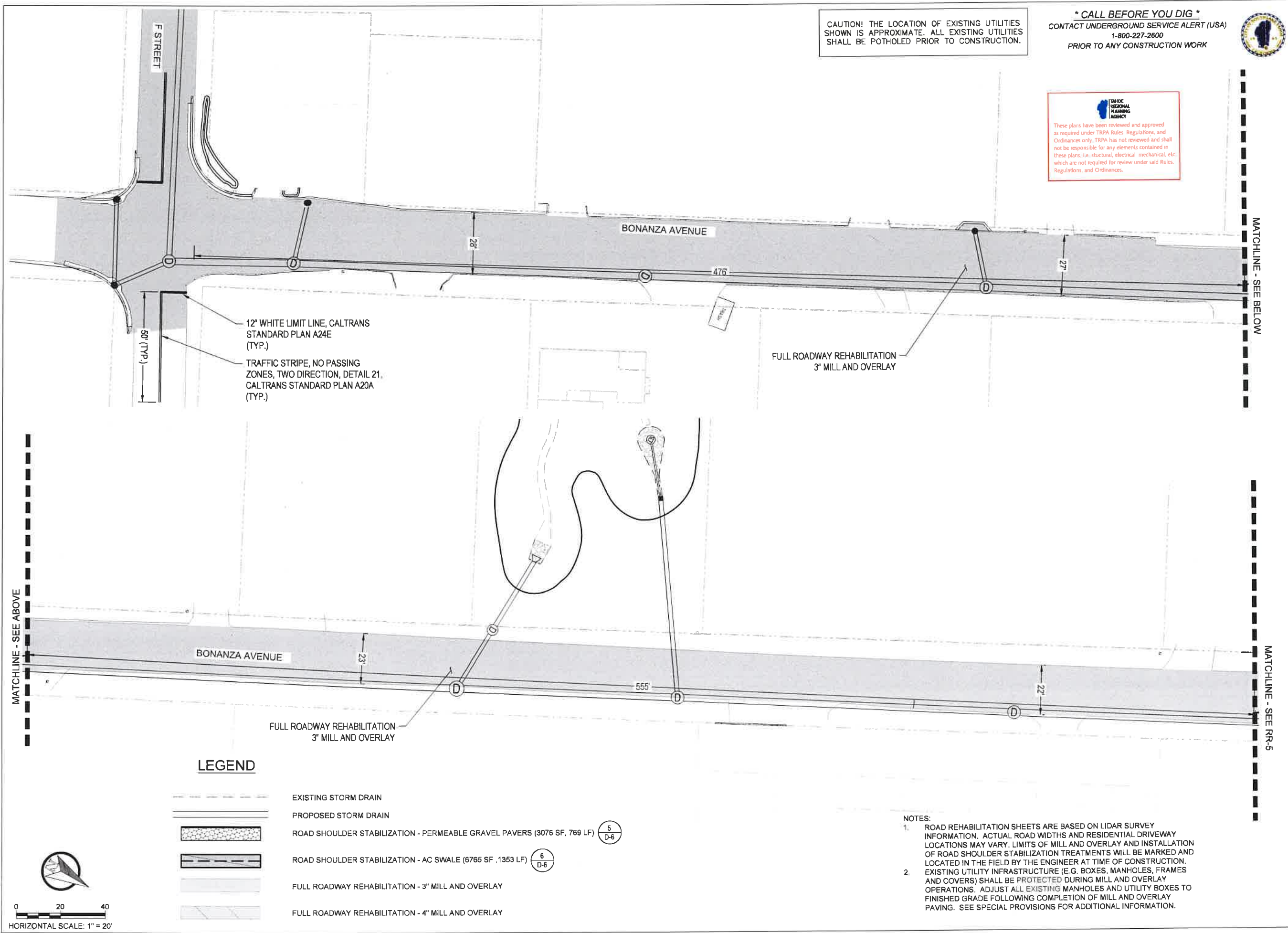
30

D ST ROAD REHAB SHEET 2
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LEGEND

	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF) 5 D-6
	ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF) 6 D-6
	FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
	FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

NOTES:

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CONSTRUCTION SET

DATE	DESCRIPTION	BY

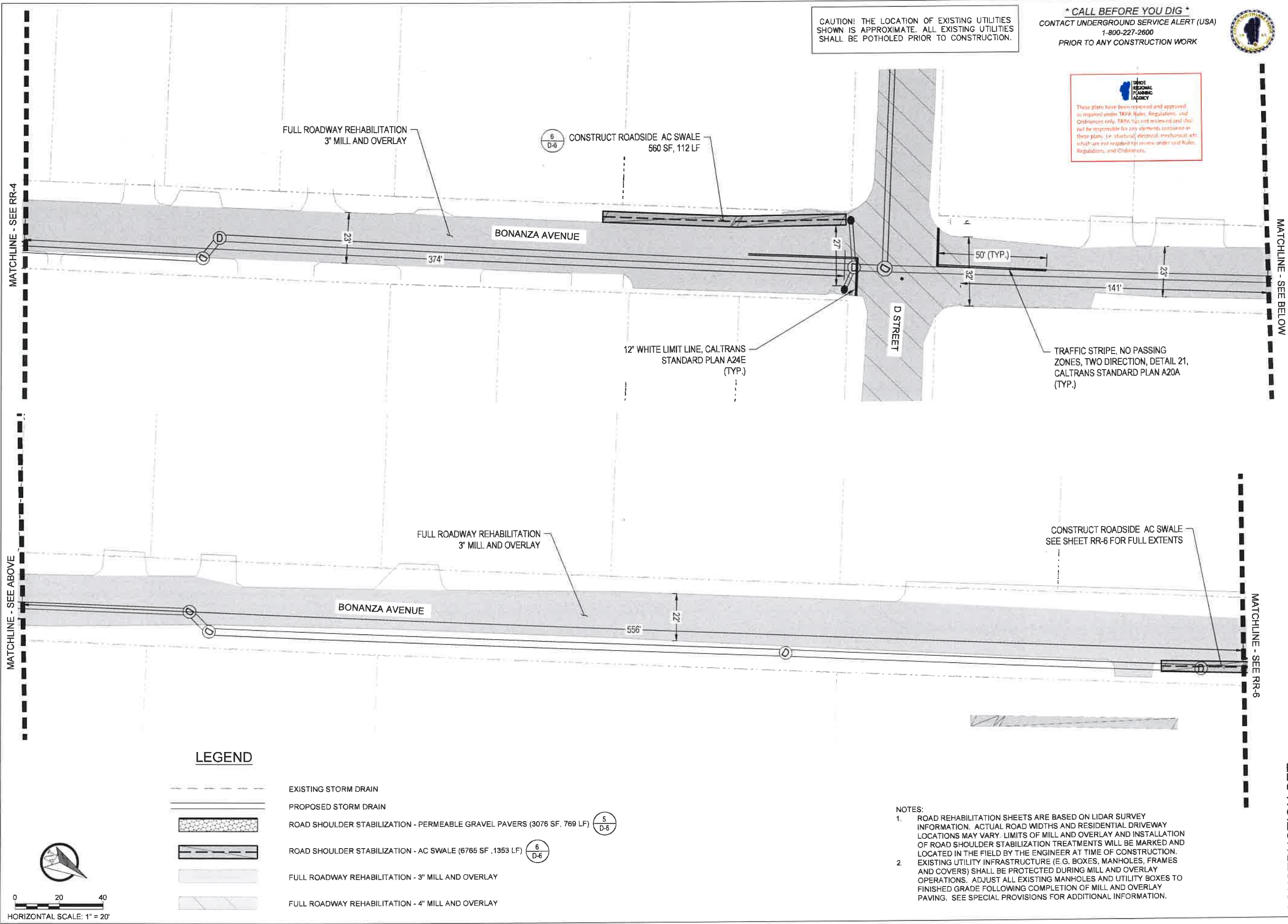


DATE	1 FEB 2023
DRAWN	BT
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600
SHEET TITLE	RR-4
SHEET NUMBER	31

BONANZA AVE ROAD REHAB SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
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Plot Stamp: 2/13/2023 4:01:24 PM - Treflio, Ivan
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BONANZA AVE ROAD REHAB SHEET 2
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SOUTH LAKE TAHOE, CA

BY	DATE	DESCRIPTION

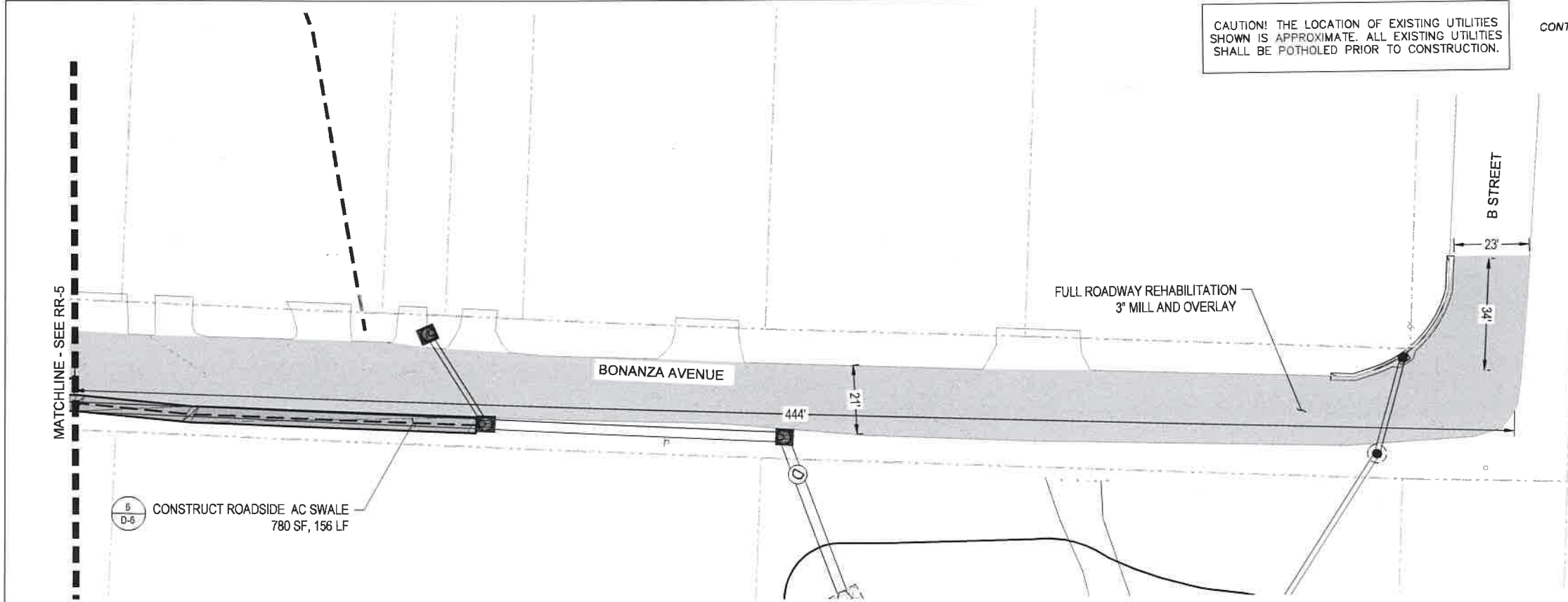


DATE	1 FEB 2023
DRAWN	I BT
DESIGNED	I JT / JD
CHECKED	J JD / BM
PROJECT #	E320400600
SHEET TITLE	RR-5
SHEET NUMBER	32

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Plot Stamp: 2/13/2023 4:01:34 PM - Trujillo, Ivan
File: U:\278040107_Motorists CAD\Phase 11 DWG\30 Sheets\TVGS_RoadShoulderPlan.dwg, Tab: RR-8



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LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF) 5 D-6
- ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF) 6 D-6
- FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
- FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

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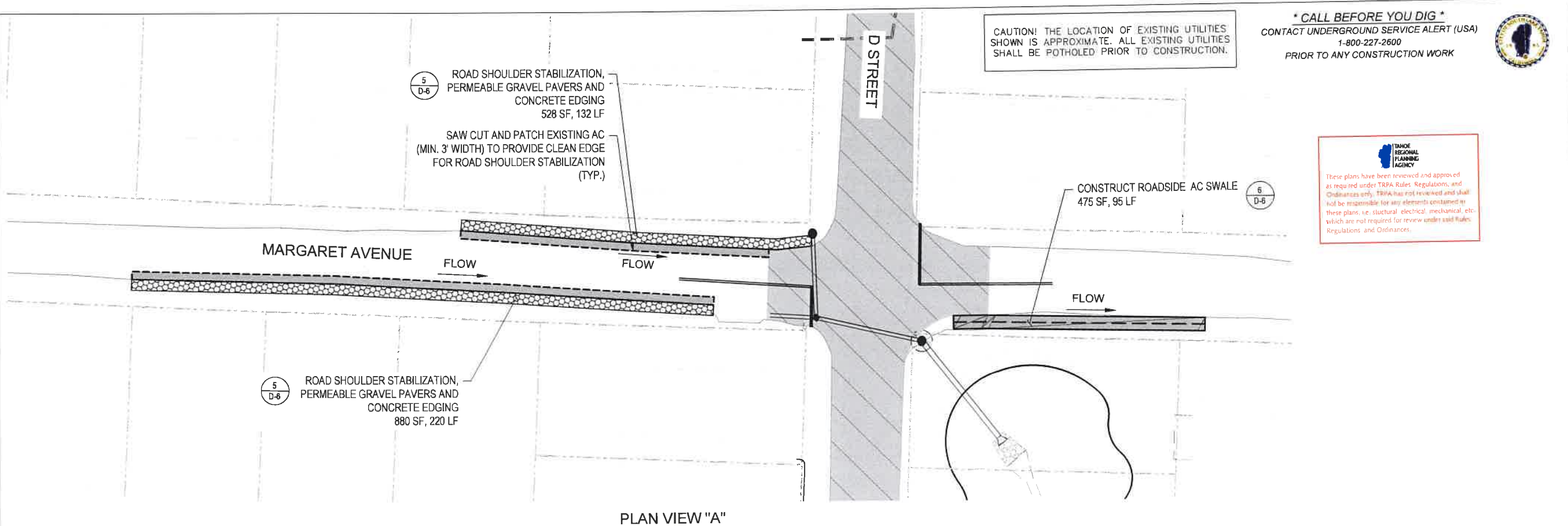
BONANZA AVE ROAD REHAB SHEET 3
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION	BY



DATE: 1 FEB 2023
DRAWN: I BT
DESIGNED: I JT / JD
CHECKED: I JD / BM
PROJECT #: E320400600
SHEET TITLE: RR-6
SHEET NUMBER: 33

Plot Sheet: 2/13/2023 4:01:53 PM - Trujillo, Ivan
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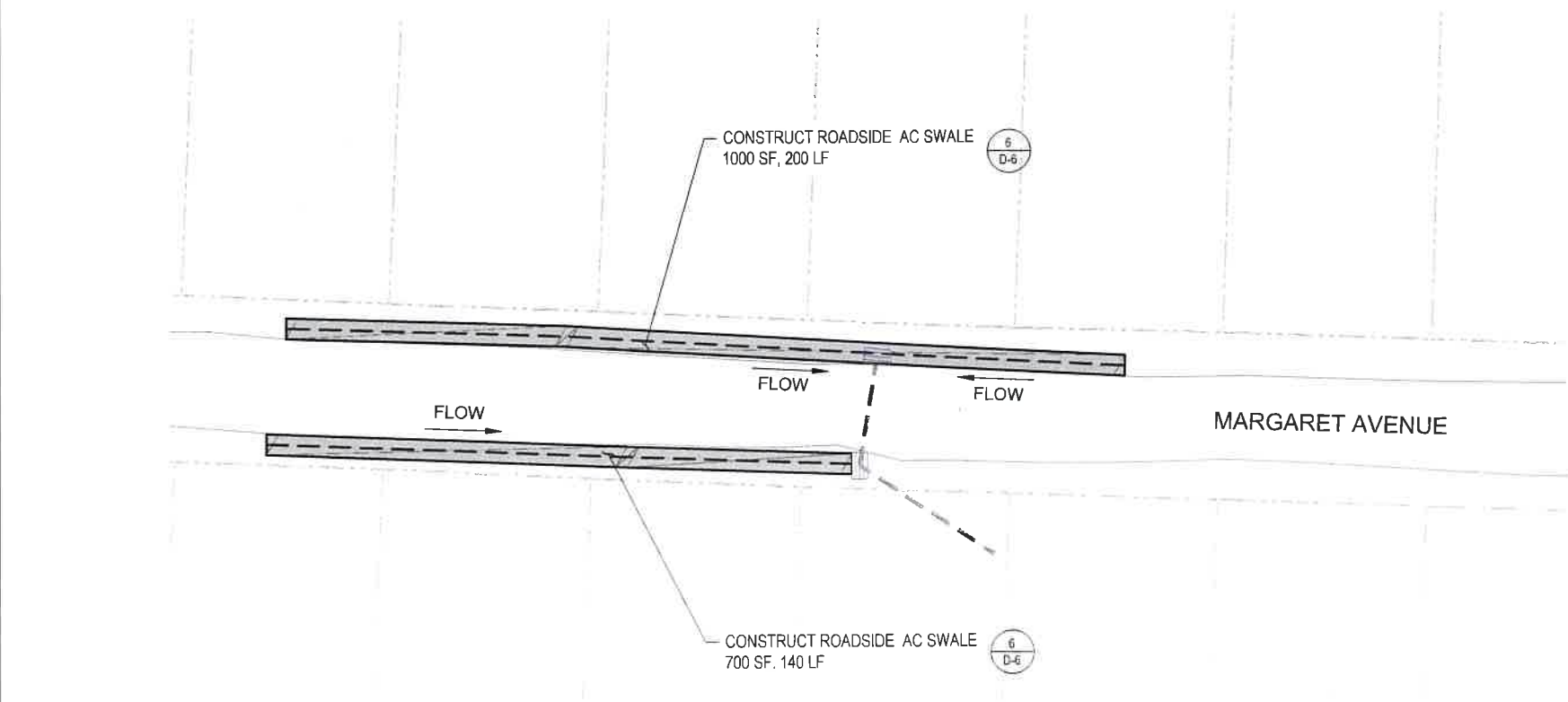
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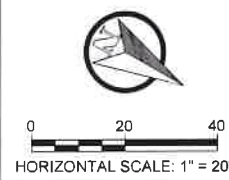
MARGARET AVE ROAD REHAB SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA



LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF) 5 D-6
- ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF) 6 D-6
- FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
- FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

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- ROAD REHABILITATION SHEETS ARE BASED ON LIDAR SURVEY INFORMATION. ACTUAL ROAD WIDTHS AND RESIDENTIAL DRIVEWAY LOCATIONS MAY VARY. LIMITS OF MILL AND OVERLAY AND INSTALLATION OF ROAD SHOULDER STABILIZATION TREATMENTS WILL BE MARKED AND LOCATED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION. EXISTING UTILITY INFRASTRUCTURE (E.G. BOXES, MANHOLES, FRAMES AND COVERS) SHALL BE PROTECTED DURING MILL AND OVERLAY OPERATIONS. ADJUST ALL EXISTING MANHOLES AND UTILITY BOXES TO FINISHED GRADE FOLLOWING COMPLETION OF MILL AND OVERLAY PAVING. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 -



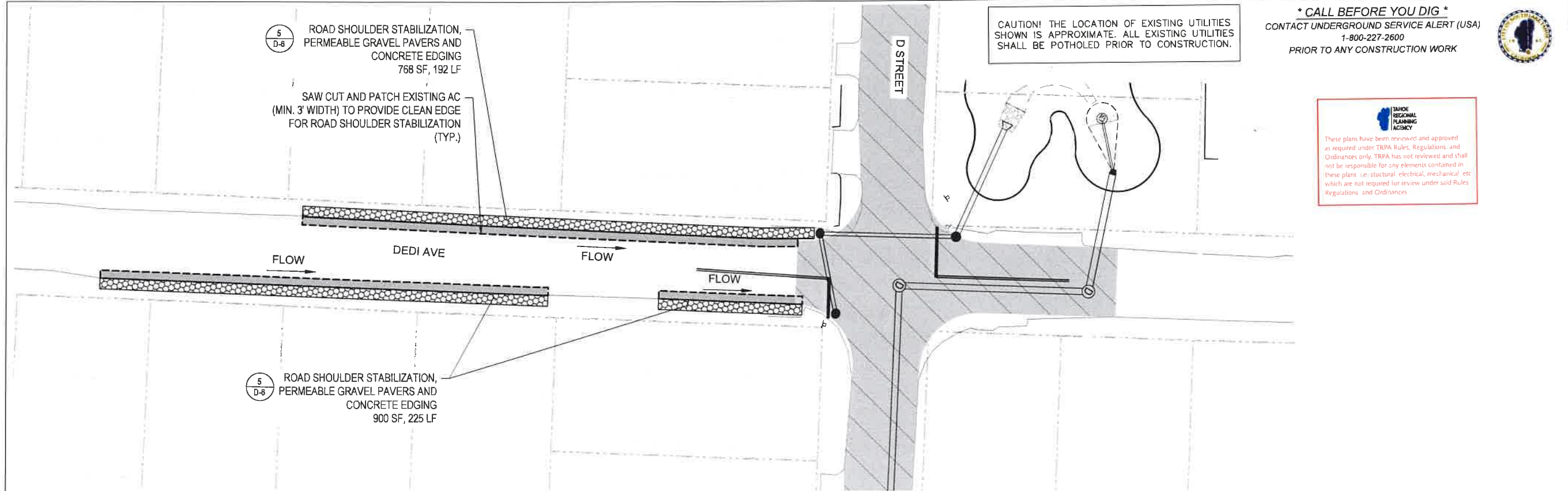
CONSTRUCTION SET

#	DATE	DESCRIPTION

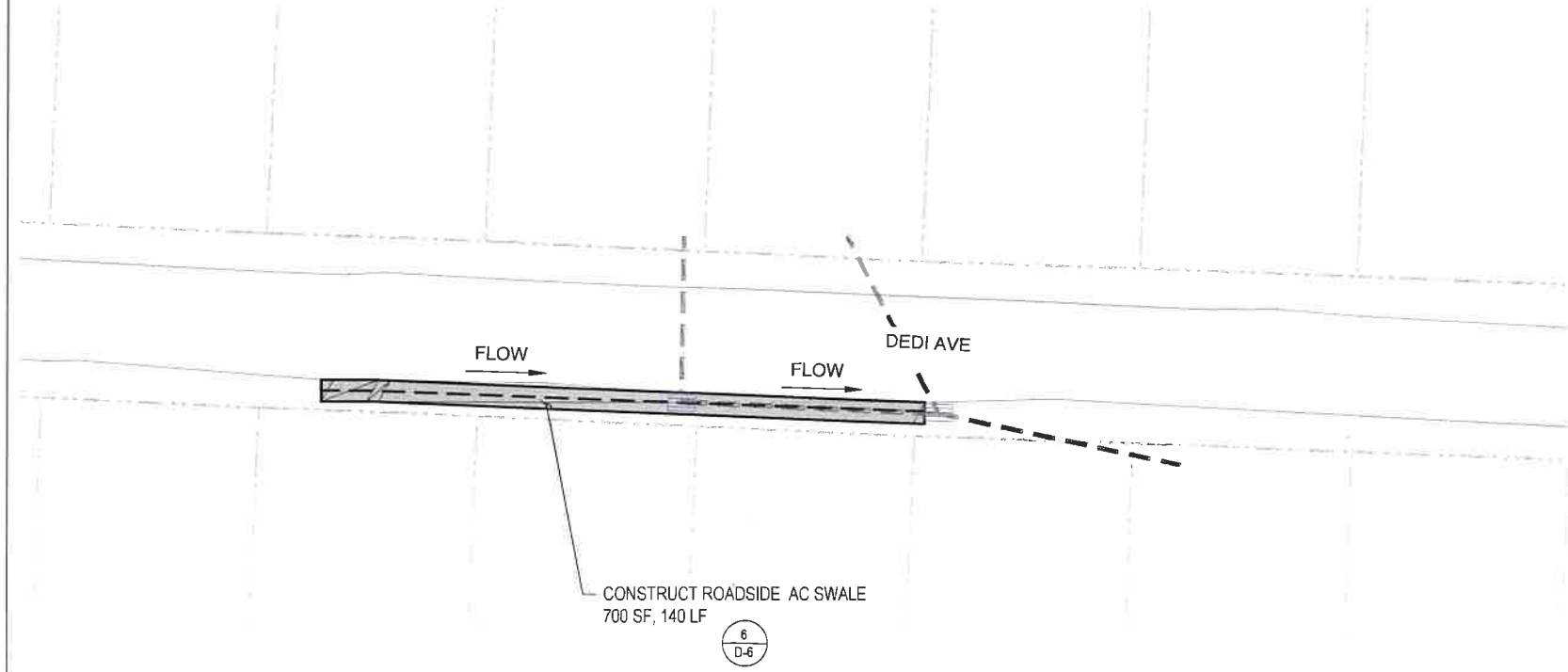
PROFESSIONAL
ENGINEER
No. C 95100
Exp. 06/30/23
STATE OF CALIFORNIA
CIVIL

DATE 1 FEB 2023
DRAWN I BT
DESIGNED I JT / JD
CHECKED I JD / BM
PROJECT # E320400600
SHEET TITLE RR-7
SHEET NUMBER 34

Plot Stamp: 2/13/2023 4:02:11 PM - Trujillo, Ivan
File: U:\3780\40107_Initial\3780\40107_Initial\DWG33_Shaheed\TVSGS_ROADSHOULDER-PLAN.dwg, Tab: RR-8



PLAN VIEW "A"



PLAN VIEW "B"

LEGEND

	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF)
	ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF)
	FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
	FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

- NOTES:
- ROAD REHABILITATION SHEETS ARE BASED ON LIDAR SURVEY INFORMATION. ACTUAL ROAD WIDTHS AND RESIDENTIAL DRIVEWAY LOCATIONS MAY VARY. LIMITS OF MILL AND OVERLAY AND INSTALLATION OF ROAD SHOULDER STABILIZATION TREATMENTS WILL BE MARKED AND LOCATED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION. EXISTING UTILITY INFRASTRUCTURE (E.G. BOXES, MANHOLES, FRAMES AND COVERS) SHALL BE PROTECTED DURING MILL AND OVERLAY OPERATIONS. ADJUST ALL EXISTING MANHOLES AND UTILITY BOXES TO FINISHED GRADE FOLLOWING COMPLETION OF MILL AND OVERLAY PAVING. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 -

CONSTRUCTION SET

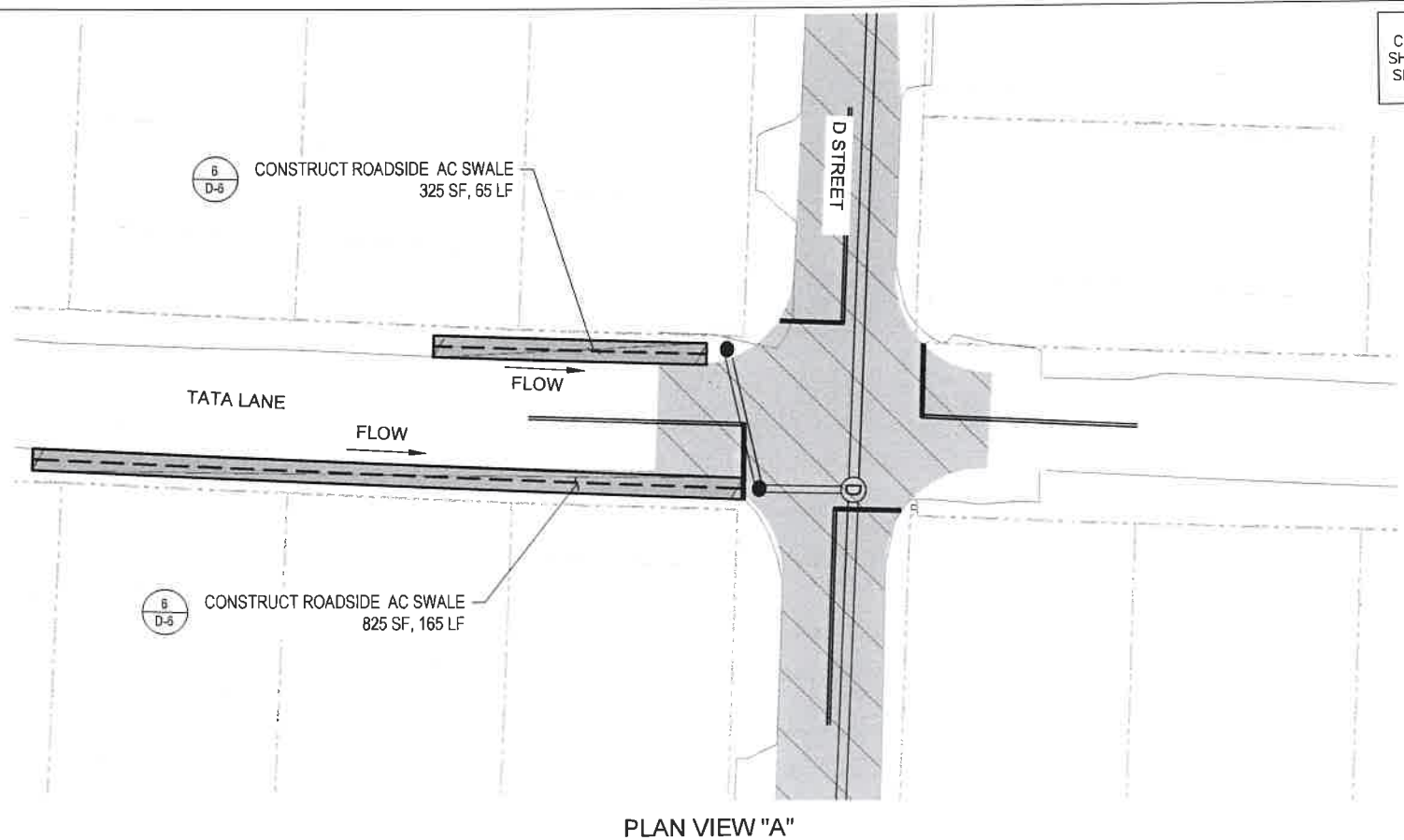
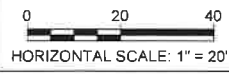
LAKE TAHOE
255 HIGHWAY 50, ZEPHYRUS COVE, NV 89449
TEL: (775) 568-9069 FAX: (775) 568-9219
www.cardno.com

DEDI AVE ROAD REHAB SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

#	DATE	DESCRIPTION	BY







DATE: | FEE 2023
DRAWN: | ET
DESIGNED: | JT / JD
CHECKED: | JD / BM
PROJECT #: | E320400600
SHEET TITLE: | RR-8
SHEET NUMBER: | 35

Plot Stamp: 2/13/2023 4:02:30 PM - Tujillo, Ivan
File: U:\278600\0107_District\15 CAD\Phase 1\ DWG\3 Sheets\TVGS_ROADSHOULDER-PLAN.dwg Tab: RR-9




PLAN VIEW "A"

LEGEND

-  EXISTING STORM DRAIN
-  PROPOSED STORM DRAIN
-  ROAD SHOULDER STABILIZATION - PERMEABLE GRAVEL PAVERS (3076 SF, 769 LF) 5
D-6
-  ROAD SHOULDER STABILIZATION - AC SWALE (6765 SF, 1353 LF) 6
D-6
-  FULL ROADWAY REHABILITATION - 3" MILL AND OVERLAY
-  FULL ROADWAY REHABILITATION - 4" MILL AND OVERLAY

NOTES:

1. ROAD REHABILITATION SHEETS ARE BASED ON LIDAR SURVEY INFORMATION. ACTUAL ROAD WIDTHS AND RESIDENTIAL DRIVEWAY LOCATIONS MAY VARY. LIMITS OF MILL AND OVERLAY AND INSTALLATION OF ROAD SHOULDER STABILIZATION TREATMENTS WILL BE MARKED AND LOCATED IN THE FIELD BY THE ENGINEER AT TIME OF CONSTRUCTION.
2. EXISTING UTILITY INFRASTRUCTURE (E.G. BOXES, MANHOLES, FRAMES AND COVERS) SHALL BE PROTECTED DURING MILL AND OVERLAY OPERATIONS. ADJUST ALL EXISTING MANHOLES AND UTILITY BOXES TO FINISHED GRADE FOLLOWING COMPLETION OF MILL AND OVERLAY PAVING. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.


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CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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LAKE TAHOE
255 HIGHWAY 50, ZEPHYRUS COVE, NV 89448
TEL: (775) 568-9069 FAX: (775) 568-9219
www.cardno.com

TATA LANE ROAD REHAB SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

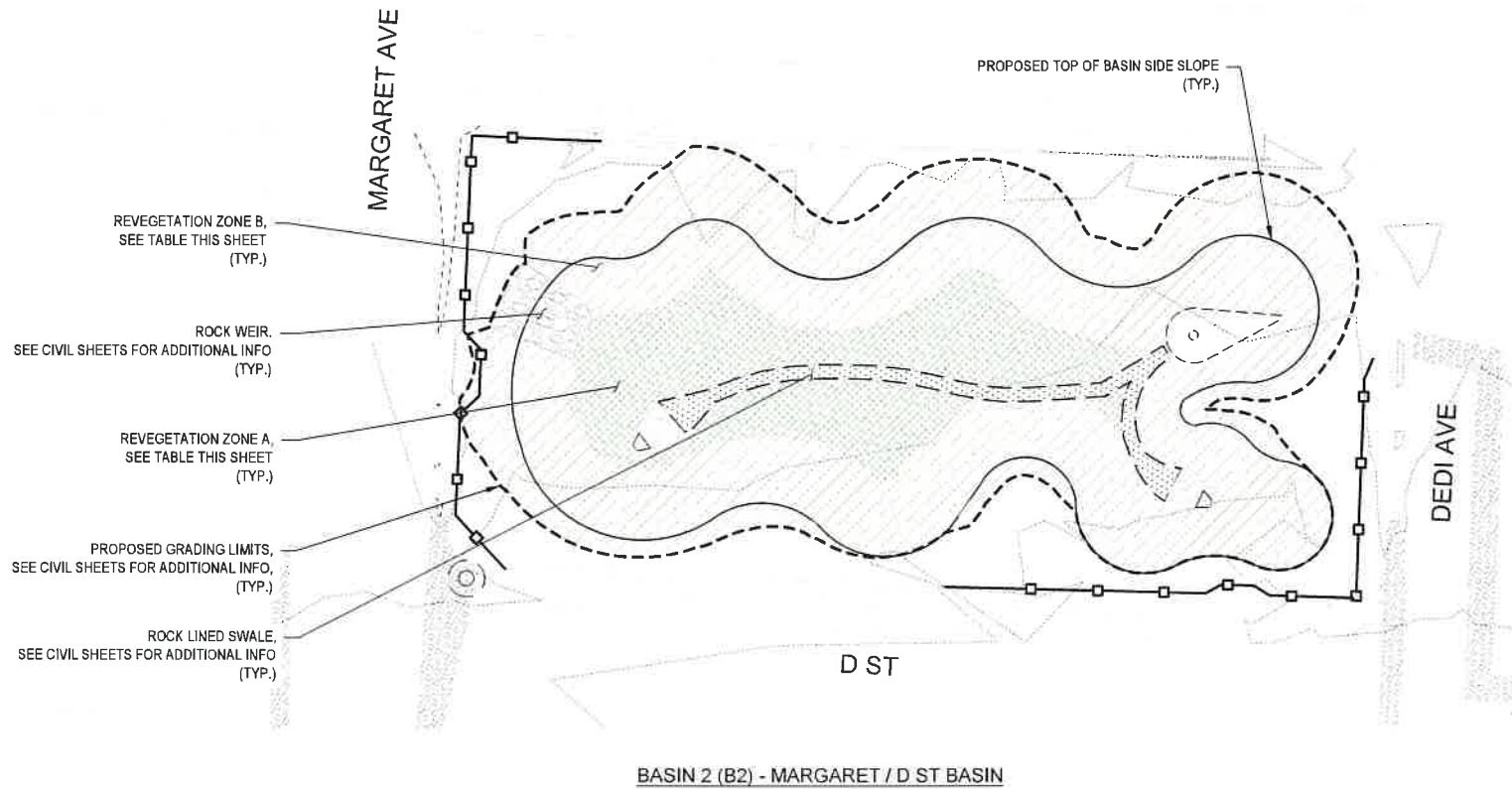
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DATE	1 FEB 2023
DRAWN	1 ET
DESIGNED	1 IT / JD
CHECKED	1 JD / BM
PROJECT #	1 E320400600
SHEET TITLE	RR-9
SHEET NUMBER	36

CONSTRUCTION SET

Plot Stamp: 7/13/2023 4:02:58 PM - Trujillo, Ivan
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CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

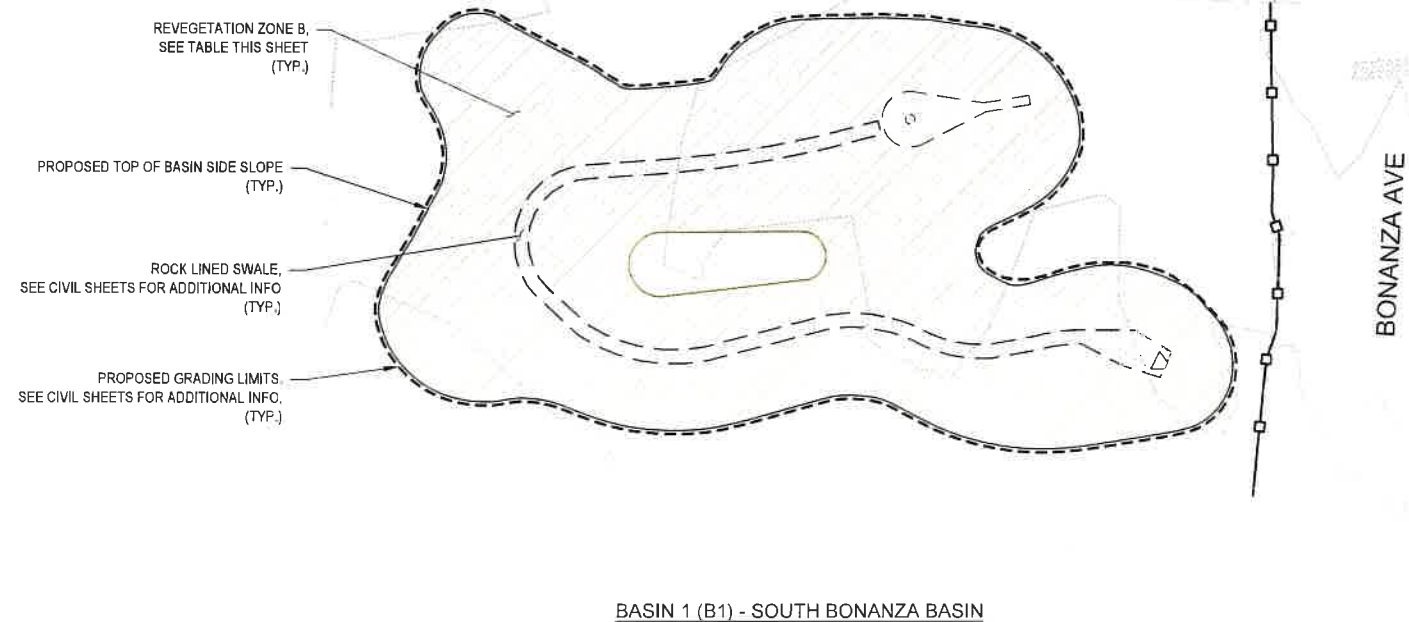
*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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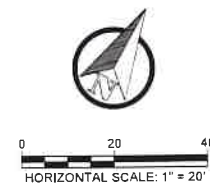
REVEGETATION QUANTITIES				
KEY	ZONE	ITEM DESCRIPTION	UNIT	QUANTITY
	REVEGETATION ZONE A	TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT	SF	2,890
		TREATMENT TYPE 3 (TT3) - WOODY VEGETATION SALVAGE AND PROCESSING		
		TREATMENT TYPE 5-2 (TT5-2) - SEEDING MIX 2		
		TREATMENT TYPE 6 (TT6) - HYDRAULIC MULCH APPLICATION		
	REVEGETATION ZONE B	TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT	SF	9,740
		TREATMENT TYPE 3 (TT3) - WOODY VEGETATION SALVAGE AND PROCESSING		
		TREATMENT TYPE 5-2 (TT5-2) - SEEDING MIX 2		
		TREATMENT TYPE 6 (TT6) - HYDRAULIC MULCH APPLICATION		
		TREATMENT TYPE 8 (TT8) - COIR 40/400 NETTING INSTALLATION		

NOTE: REFER TO SPECIAL PROVISIONS FOR TREATMENT TYPE INFORMATION



REVEGETATION QUANTITIES				
KEY	ZONE	ITEM DESCRIPTION	UNIT	QUANTITY
	REVEGETATION ZONE B	TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT	SF	11,305
		TREATMENT TYPE 3 (TT3) - WOODY VEGETATION SALVAGE AND PROCESSING		
		TREATMENT TYPE 5-3 (TT5-3) - SEEDING MIX 3		
		TREATMENT TYPE 6 (TT6) - HYDRAULIC MULCH APPLICATION		
		TREATMENT TYPE 8 (TT8) - COIR 40/400 NETTING INSTALLATION		

NOTE: REFER TO SPECIAL PROVISIONS FOR TREATMENT TYPE INFORMATION



CONSTRUCTION SET

#	DATE	DESCRIPTION	BY



4/11/22

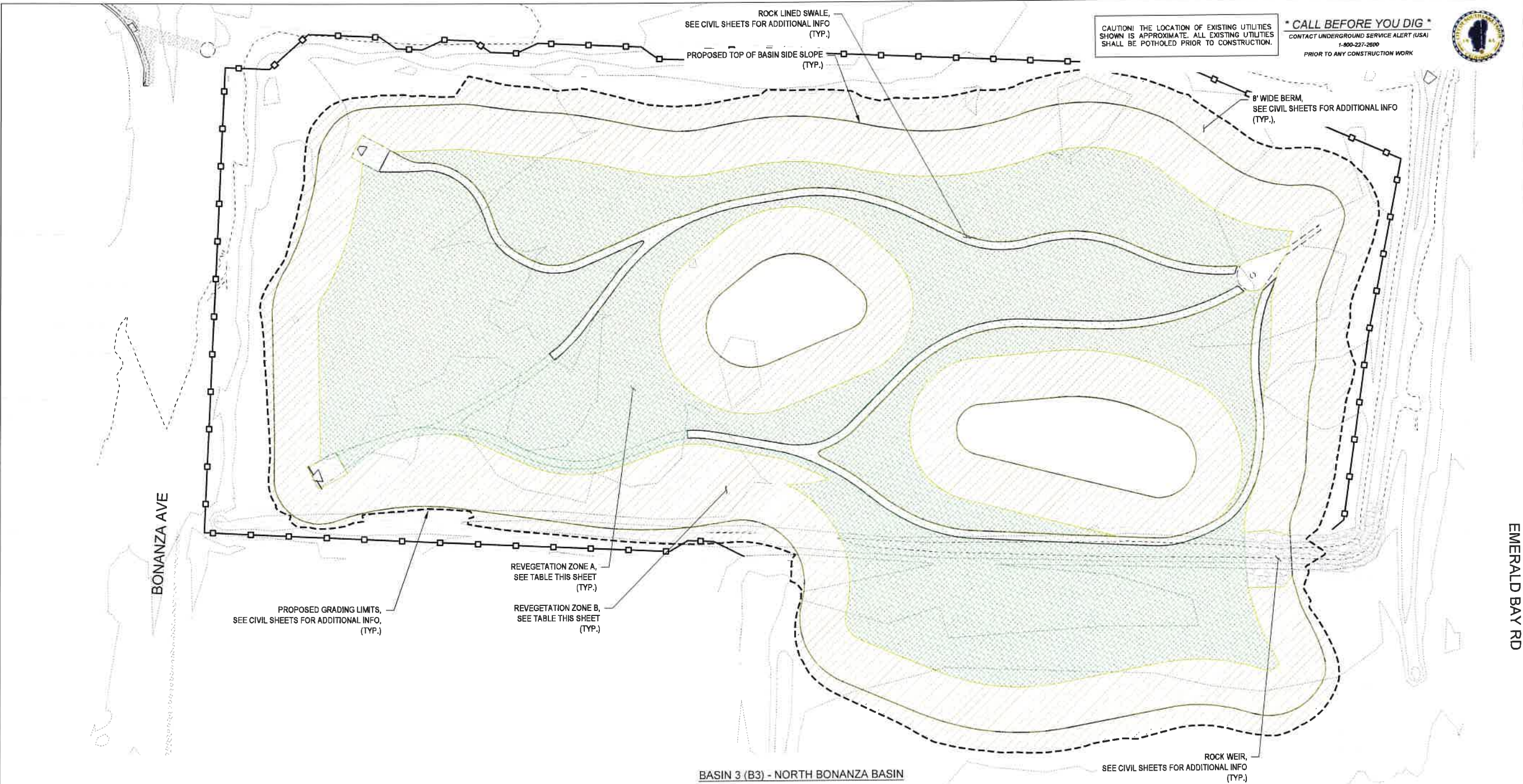
DATE: FEB 2023
DRAWN: ET
DESIGNED: JD / BM
CHECKED: JD / BM
PROJECT #: E32040600
SHEET TITLE: REVEG-1
SHEET NUMBER:

37

REVEGETATION SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

Cardno
LAKE TAHOE
256 HIGHWAY 50, ZEPHYRUS, NV 89448
TEL: (775) 598-9069 FAX: (775) 598-9219
www.cardno.com

Plot Stamp: 2/13/2023 4:03:06 PM - Trujillo Ivan
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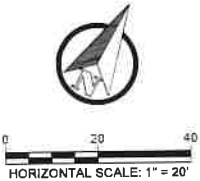


BASIN 3 (B3) - NORTH BONANZA BASIN

REVEGETATION QUANTITIES				
KEY	ZONE	ITEM DESCRIPTION	UNIT	QUANTITY
	REVEGETATION ZONE A	TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT	SF	37,355
		TREATMENT TYPE 3 (TT3) - WOODY VEGETATION SALVAGE AND PROCESSING		
		TREATMENT TYPE 5-3 (TT5-3) - SEEDING MIX 3		
		TREATMENT TYPE 6 (TT6) - HYDRAULIC MULCH APPLICATION		
	REVEGETATION ZONE B	TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT	SF	39,205
		TREATMENT TYPE 3 (TT3) - WOODY VEGETATION SALVAGE AND PROCESSING		
		TREATMENT TYPE 5-3 (TT5-3) - SEEDING MIX 3		
		TREATMENT TYPE 6 (TT6) - HYDRAULIC MULCH APPLICATION		
		TREATMENT TYPE 8 (TT8) - COIR 40/400 NETTING INSTALLATION		

NOTE: REFER TO SPECIAL PROVISIONS FOR TREATMENT TYPE INFORMATION

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CONSTRUCTION SET

#	DATE	DESCRIPTION	BY

PROFESSIONAL
PLAN
No. C 55100
EXP. 06/2023
STATE OF CALIFORNIA
CIVIL ENGINEER

4/11/22

DATE		FEB 2023
DRAWN		BT
DESIGNED		IT / JD
CHECKED		JD / BM
PROJECT #		E320400600
SHEET TITLE	REVEG-2	
SHEET NUMBER	38	

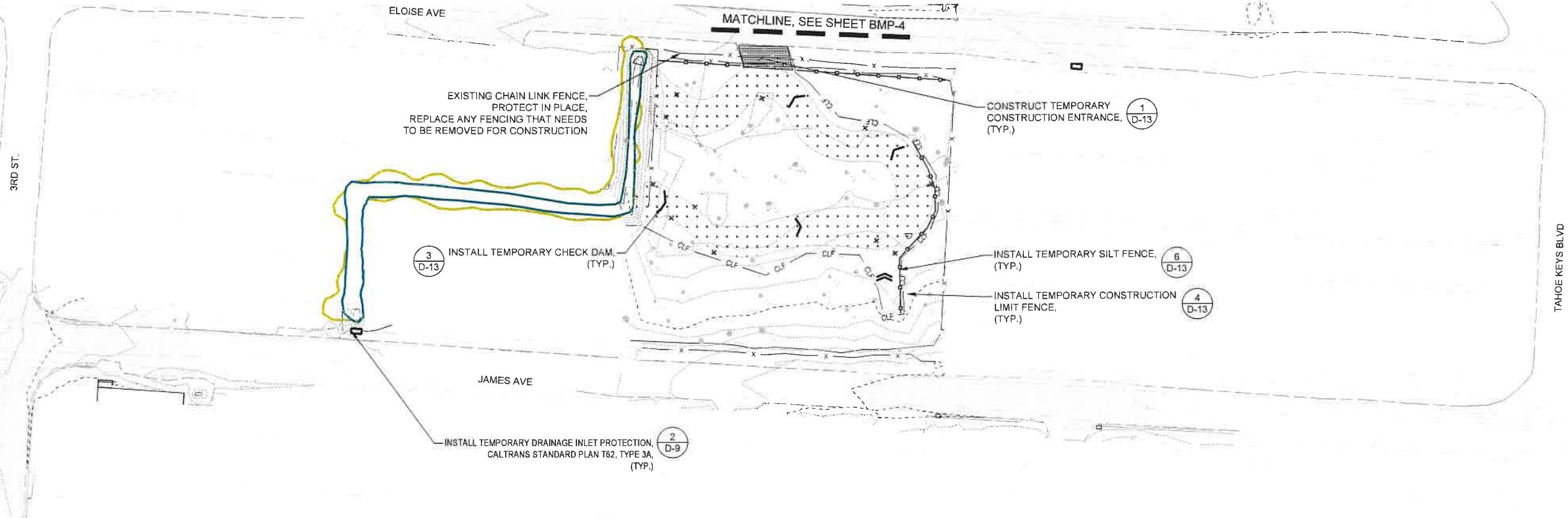
REVEGETATION SHEET 2
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

Cardno
LAKE TAHOE
286 HIGHWAY 50, ZEPHYRUS, NV 89448
TEL: (775) 988-9069 FAX: (775) 988-9219
www.cardno.com

Plot Stamp: 2/13/2023 4:04:24 PM - Trullio km
File: U:\218040\007_Instrument\5 CAD\Phase 1\DWG03 Sheet\SheetTVGS_BMP.dwg Tab: BMP-3

NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE APPROVED SWPPP AND THE PROJECT PERMITS.
2. THE STAGING AREA AS SHOWN ON THE BMP SHEETS INDICATES THE MAXIMUM USABLE SPACE THAT IS AVAILABLE TO THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION LIMIT AND STORAGE/STAGING AREA FENCING PLAN AND WORK SCHEDULE TO THE ENGINEER FOR ANY DEVIATIONS TO THIS PLAN FOR REVIEW AND ACCEPTANCE PRIOR TO ANY WORK REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE PROJECT DRAWINGS.
4. PLACEMENT OF ADDITIONAL FENCING MAY BE NECESSARY FOR THE WORK REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE PROJECT DRAWINGS.
5. THIS PLAN SHEET IS DIAGRAMMATIC ONLY. ALL TEMPORARY FENCING AND TEMPORARY EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MODIFIED AS NECESSARY PER PROGRESSION OF THE WORK, AS DIRECTED BY THE ENGINEER. AS DIRECTED BY THE QSP AND TO REFLECT EACH DAILY ACTIVE WORKING AREA; TO PROTECT PUBLIC SAFETY AND MAINTAIN EMERGENCY AND BUSINESS ACCESS FOR THE DURATION OF THE PROJECT.
6. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE TRPA AND REGIONAL WATER QUALITY CONTROL BOARD FOR APPROVAL OF ALL INSTALLED TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR IS ADDITIONALLY REQUIRED TO SCHEDULE A TRPA PRE-GRADE MEETING. SEE SPECIAL PROVISIONS AND PROJECT PERMITS FOR ADDITIONAL REQUIREMENTS.
7. TEMPORARY EROSION CONTROL DEVICES SHALL BE PLACED, MAINTAINED AND ADJUSTED AS NECESSARY RELATIVE TO EACH DAILY ACTIVE WORKING AREA AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE APPROVED SWPPP AND THE PROJECT PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES.
9. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED BY AN AMENDED SWPPP, DIRECTED BY THE ENGINEER OR DIRECTED BY THE PROJECT QSP.
10. CHECK DAMS SHALL BE INSTALLED AT A SEPARATION DISTANCE SO THAT THE TOP OF THE DOWNSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE BOTTOM OF THE UPSTREAM CHECK DAM.



CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

*** CALL BEFORE YOU DIG ***
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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BMP QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY*
TEMPORARY CHECK DAM	EA	±6
TEMPORARY DRAINAGE INLET PROTECTION	EA	±2
TEMPORARY CONSTRUCTION LIMIT FENCE (CLF)	LF	±500
TEMPORARY SILT FENCE	LF	±240
TEMPORARY CONSTRUCTION ENTRANCE	EA	1

LEGEND

- TEMPORARY SILT FENCE
- CLF TEMPORARY CONSTRUCTION LIMIT FENCE
- TEMPORARY FIBER ROLL
- TEMPORARY CHECK DAM
- TEMPORARY DRAINAGE INLET PROTECTION
- TEMPORARY STAGING AND STORAGE AREA
- TEMPORARY CONSTRUCTION ENTRANCE
- WATERS OF THE UNITED STATES
- WETLANDS AREA
- RIPARIAN AREA



0 40 80
HORIZONTAL SCALE: 1" = 40'

CONSTRUCTION SET

#	DATE	DESCRIPTION



DATE: 1 FEB 2023
DRAWN: I ET
DESIGNED: I IT / JD
CHECKED: I JD / BM
PROJECT #: E320400600

SHEET TITLE: BMP-3
SHEET NUMBER

40

BMP SHEET 3

TVSG IMPROVEMENT PROJECT PHASE I

CITY OF SOUTH LAKE TAHOE

SOUTH LAKE TAHOE, CA



LAKE TAHOE
256 HIGHWAY 50 ZEPHYRUS COVE, NV 89448
TEL: (775) 588-9069 FAX: (775) 588-9219
www.cardno.com

3RD ST.

ELOISE AVE

TAHOE REGIONAL PLANNING AGENCY

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1-800-227-2500
PRIOR TO ANY CONSTRUCTION WORK



6
D-13
INSTALL TEMPORARY SILT FENCE (TYP.)

4
D-13
INSTALL TEMPORARY CONSTRUCTION LIMIT FENCE (TYP.)

3
D-13
INSTALL TEMPORARY CHECK DAM (TYP.)

EXISTING CHAIN LINK FENCE, PROTECT IN PLACE, REPLACE ANY FENCING THAT NEEDS TO BE REMOVED FOR CONSTRUCTION

INSTALL TEMPORARY DRAINAGE INLET PROTECTION, CALTRANS STANDARD PLAN T62, TYPE 3A (TYP.)

2
D-9

MATCHLINE, SEE SHEET BMP-3

BMP QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY*
TEMPORARY CHECK DAM	EA	±12
TEMPORARY DRAINAGE INLET PROTECTION	EA	0
TEMPORARY CONSTRUCTION LIMIT FENCE (CLF)	LF	±205
TEMPORARY SILT FENCE	LF	±370
TEMPORARY CONSTRUCTION ENTRANCE	SF	0

LEGEND

- TEMPORARY SILT FENCE
- CLF TEMPORARY CONSTRUCTION LIMIT FENCE
- TEMPORARY FIBER ROLL
- TEMPORARY CHECK DAM
- TEMPORARY DRAINAGE INLET PROTECTION
- TEMPORARY STAGING AND STORAGE AREA
- TEMPORARY CONSTRUCTION ENTRANCE
- WATERS OF THE UNITED STATES
- WETLANDS AREA
- RIPARIAN AREA



NOTES

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- TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED BY AN AMENDED SWPPP, DIRECTED BY THE ENGINEER OR DIRECTED BY THE PROJECT QSP.
- CHECK DAMS SHALL BE INSTALLED AT A SEPARATION DISTANCE SO THAT THE TOP OF THE DOWNSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE BOTTOM OF THE UPSTREAM CHECK DAM.

Cardno

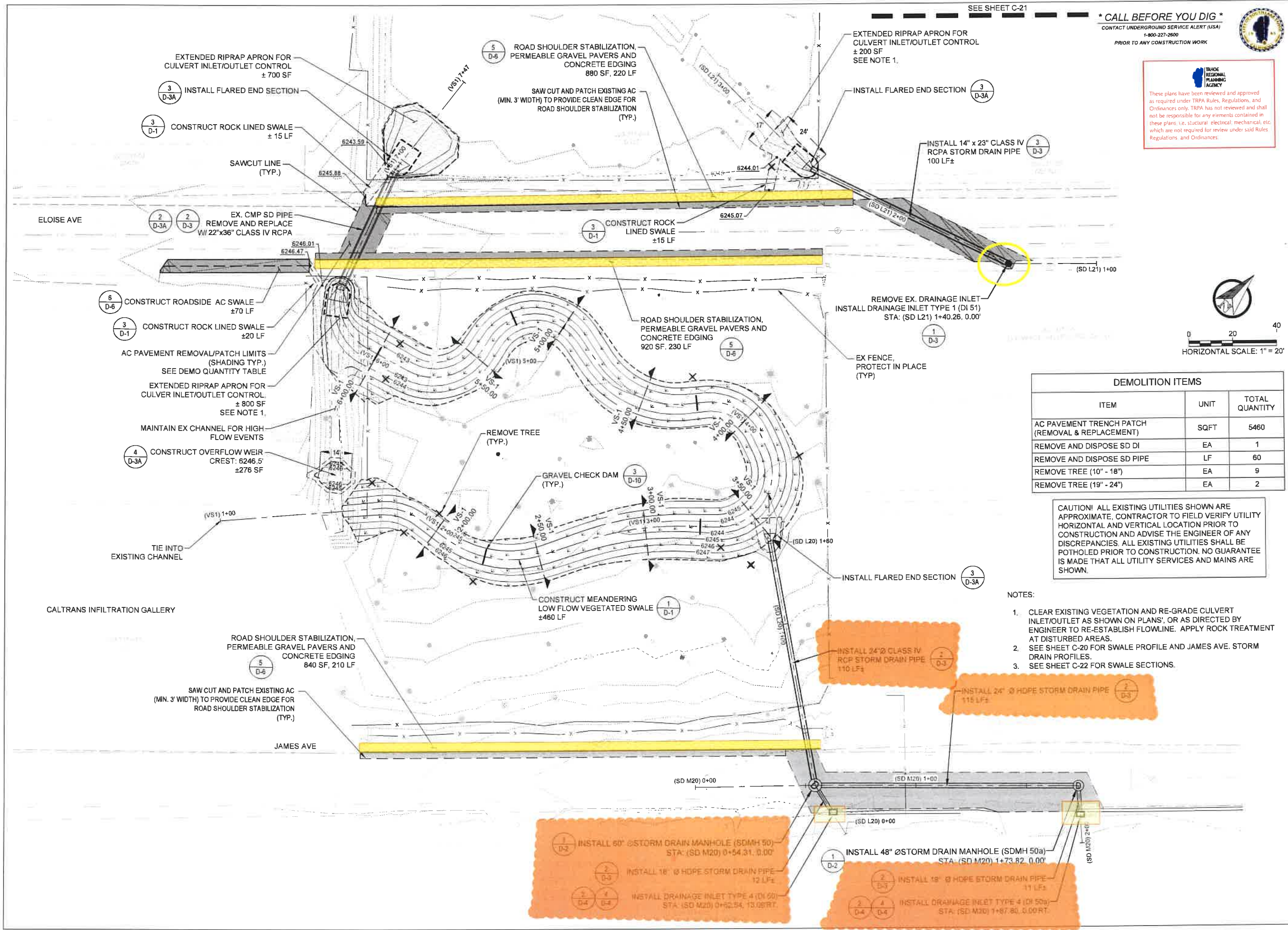
LAKE TAHOE
295 HIGHWAY 50, ZEPHYR COVE, NV 89448
TEL: (775) 588-9068 FAX: (775) 588-9219
www.cardno.com

BMP SHEET 4
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

DATE	DESCRIPTION	BY



DATE 1 FEB 2023
DRAWN 1 ET
DESIGNED 1 JT / JO
CHECKED 1 JO / BM
PROJECT # 1 E320400600
SHEET TITLE BMP-4
SHEET NUMBER



DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
AC PAVEMENT TRENCH PATCH (REMOVAL & REPLACEMENT)	SQFT	5460
REMOVE AND DISPOSE SD DI	EA	1
REMOVE AND DISPOSE SD PIPE	LF	60
REMOVE TREE (10" - 18")	EA	9
REMOVE TREE (19" - 24")	EA	2

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION. NO GUARANTEE IS MADE THAT ALL UTILITY SERVICES AND MAINS ARE SHOWN.

- NOTES:
- CLEAR EXISTING VEGETATION AND RE-GRADE CULVERT INLET/OUTLET AS SHOWN ON PLANS, OR AS DIRECTED BY ENGINEER TO RE-ESTABLISH FLOWLINE. APPLY ROCK TREATMENT AT DISTURBED AREAS.
 - SEE SHEET C-20 FOR SWALE PROFILE AND JAMES AVE. STORM DRAIN PROFILES.
 - SEE SHEET C-22 FOR SWALE SECTIONS.

CONSTRUCTION SET

LAKE TAHOE
296 HIGHWAY 50, ZEPHYR COVE, NV 89449
TEL: (775) 588-9069 FAX: (775) 588-9219
www.cardno.com

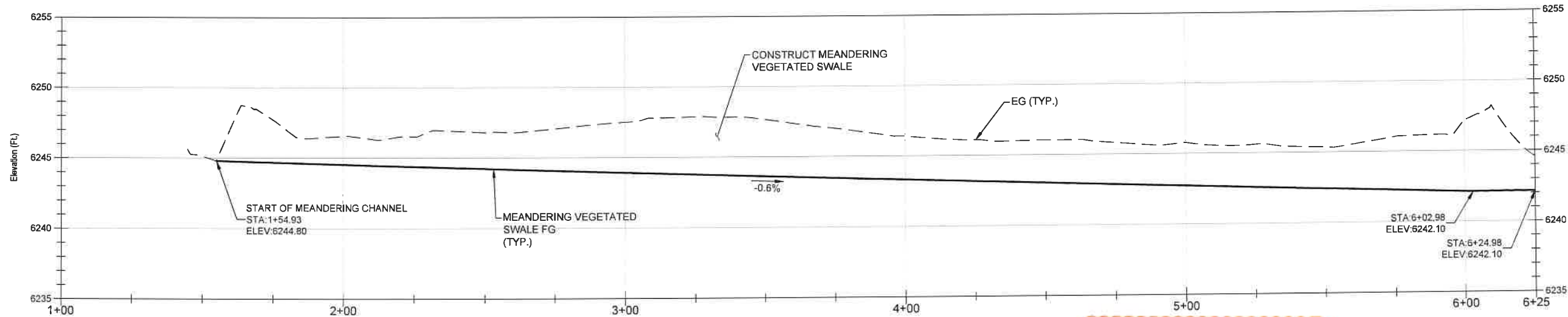
JAMES AVE & ELOISE AVE PLAN
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

DATE: 12/16/22
DRAWN: ET
DESIGNED: JT/JD
CHECKED: JD/BM
PROJECT #: E320400600
SHEET TITLE: C-19
SHEET NUMBER: 42

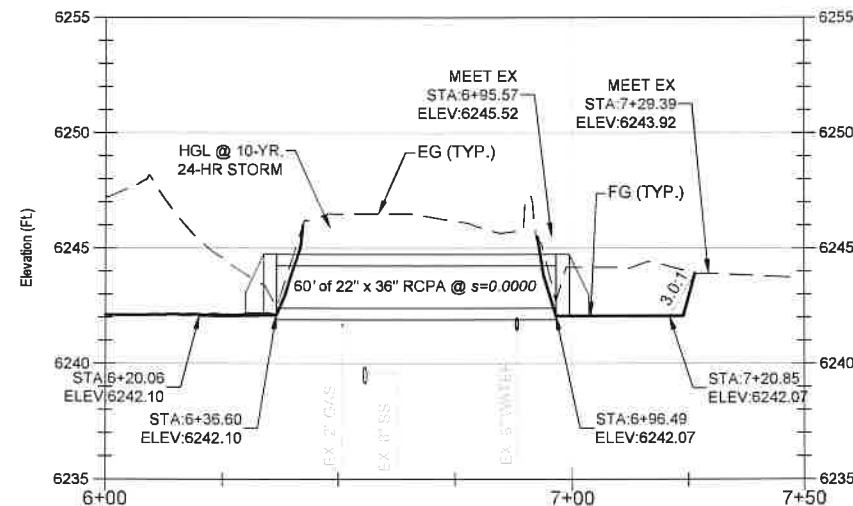
12/16/22

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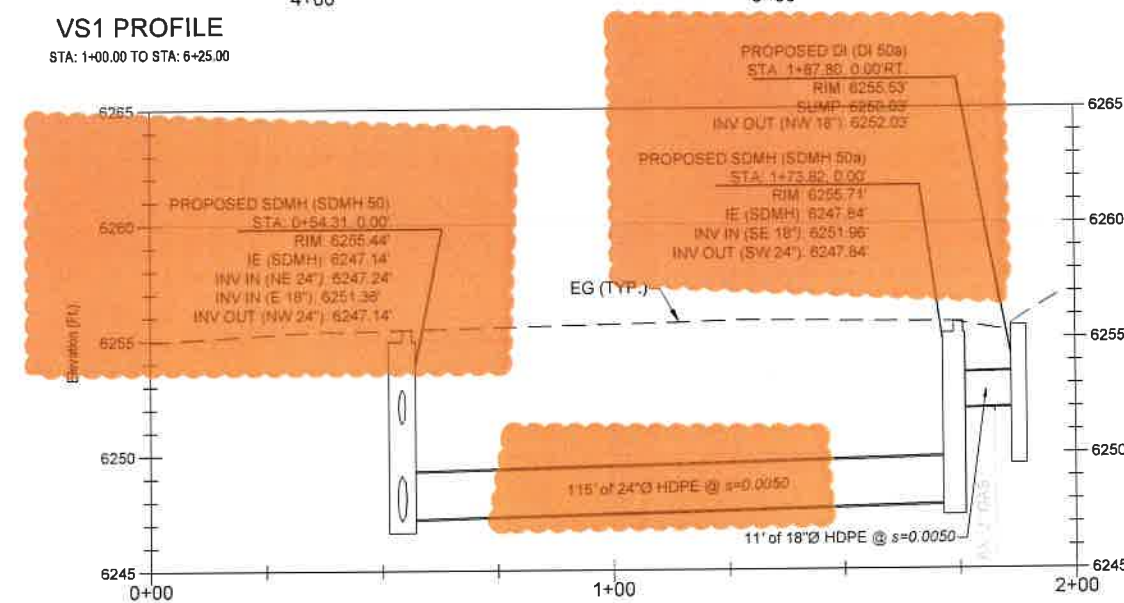
* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-327-2600
PRIOR TO ANY CONSTRUCTION WORK



VS1 PROFILE
STA: 1+00.00 TO STA: 6+25.00

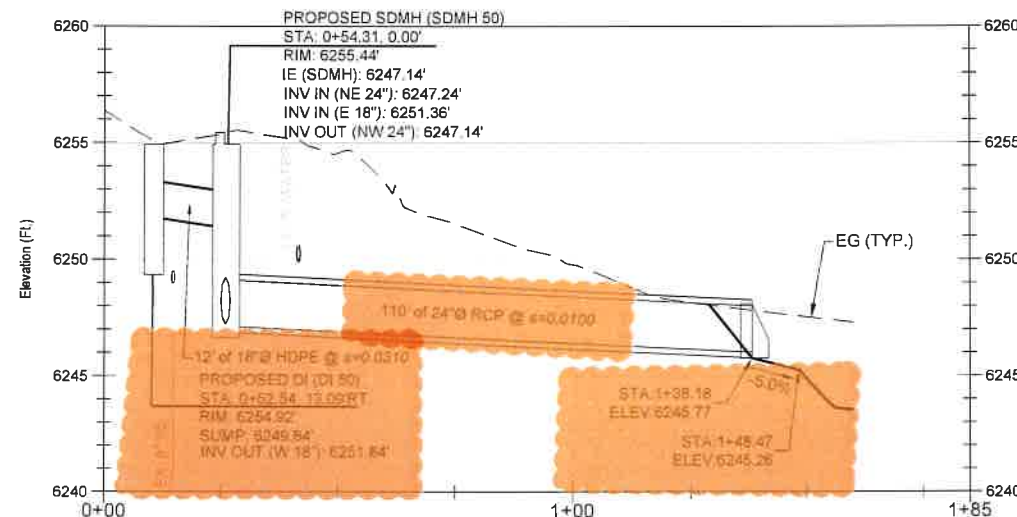


VS1 PROFILE
STA: 6+00.00 TO STA: 7+50.00

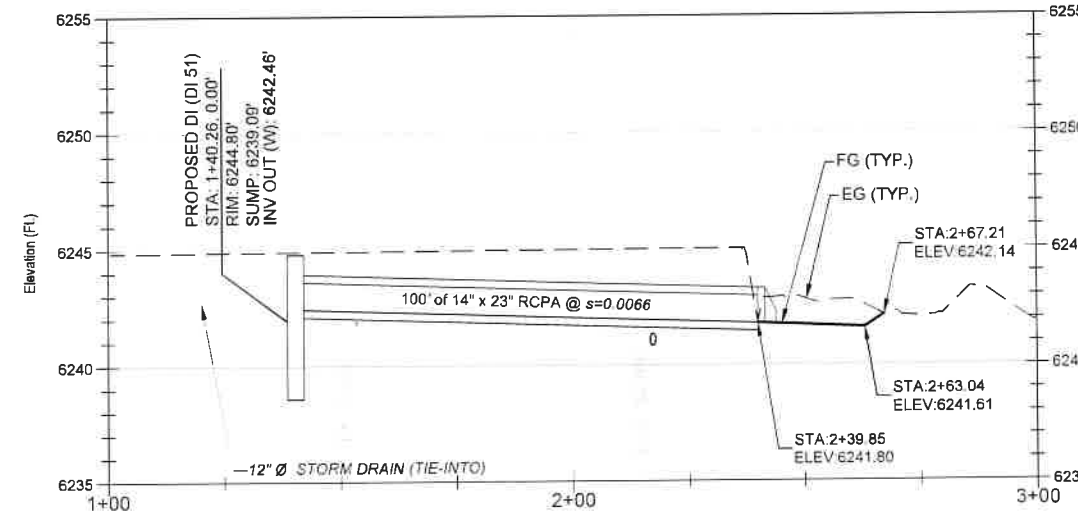


SD M20 PROFILE
STA: 0+00.00 TO STA: 2+00.00

NOTE:
1. SEE SHEET C-19 FOR PLAN VIEW



SD L20 PROFILE
STA: 0+00.00 TO STA: 1+85.00



SD L21 PROFILE
STA: 1+00.00 TO STA: 3+00.00

CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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0 20 40
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

CONSTRUCTION SET

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TEL: (775) 586-9069 FAX: (775) 586-9219
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JAMES AVE & ELOISE AVE PROFILES
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

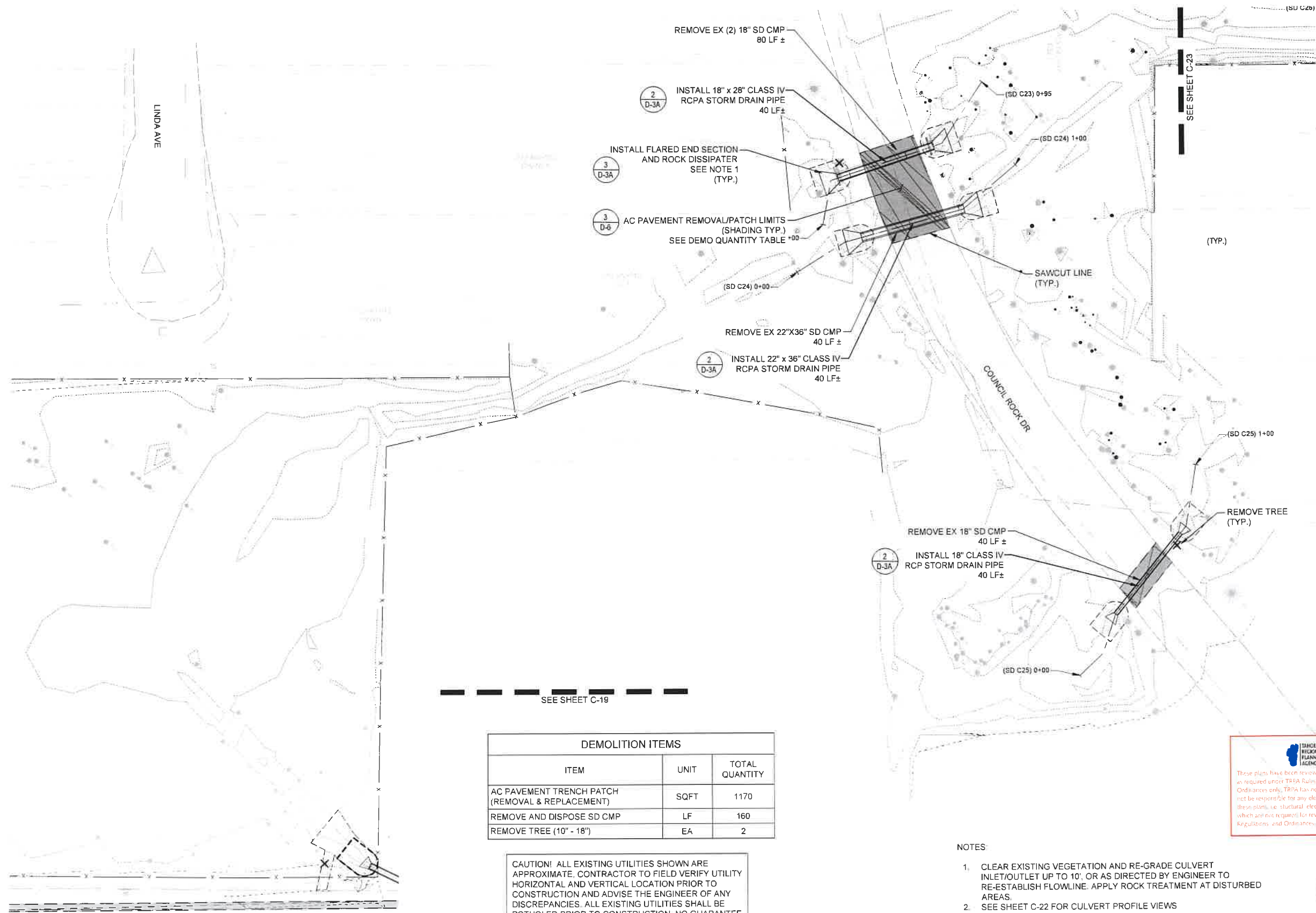
DATE	DESCRIPTION	BY	IT
5/13/22	EX. UTILITY UPDATES AND 3D REVISIONS	IT	
12/16/22	EX. UTILITY UPDATES AND 3D REVISIONS	IT	



DATE: 1 FEB 2023
DRAWN: 1 ET
DESIGNED: 1 JT/JD
CHECKED: 1 JD/RM
PROJECT #: E320400600
SHEET TITLE: C-20
SHEET NUMBER: 43

Plot Stamp: 2/13/2023 4:07:48 PM - Trudillo Ivan
File: U:\231800\40107_Historic\115 CAD\Phase 111 DWG\3 Sheet\Sheet\TVGS_PLAN\PROFILE_NorHWY.dwg Tab: C-21

* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



SEE SHEET C-19

DEMOLITION ITEMS		
ITEM	UNIT	TOTAL QUANTITY
AC PAVEMENT TRENCH PATCH (REMOVAL & REPLACEMENT)	SQFT	1170
REMOVE AND DISPOSE SD CMP	LF	160
REMOVE TREE (10" - 18")	EA	2

CAUTION! ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY UTILITY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION. NO GUARANTEE IS MADE THAT ALL UTILITY SERVICES AND MAINS ARE SHOWN.

NOTES

- CLEAR EXISTING VEGETATION AND RE-GRADE CULVERT INLET/OUTLET UP TO 10' OR AS DIRECTED BY ENGINEER TO RE-ESTABLISH FLOWLINE. APPLY ROCK TREATMENT AT DISTURBED AREAS.
- SEE SHEET C-22 FOR CULVERT PROFILE VIEWS

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0 20 40
HORIZONTAL SCALE 1" = 20'

COUNCIL ROCK DRIVE PLAN
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

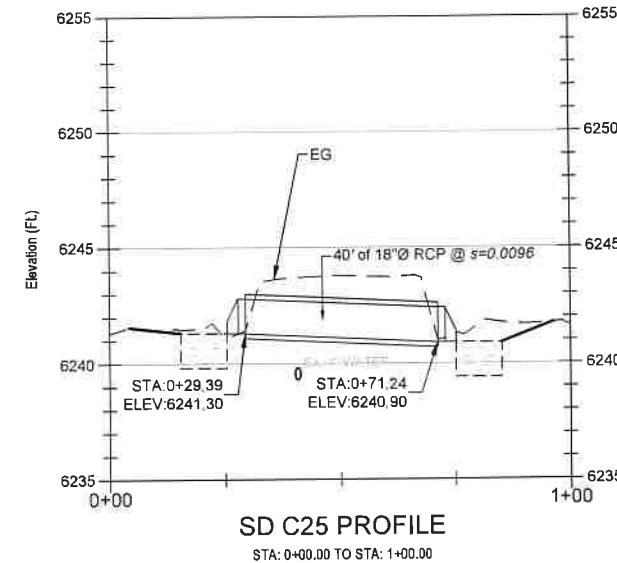
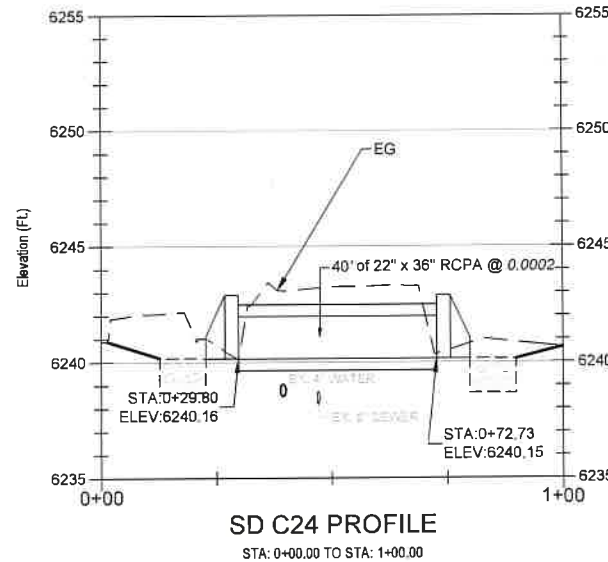
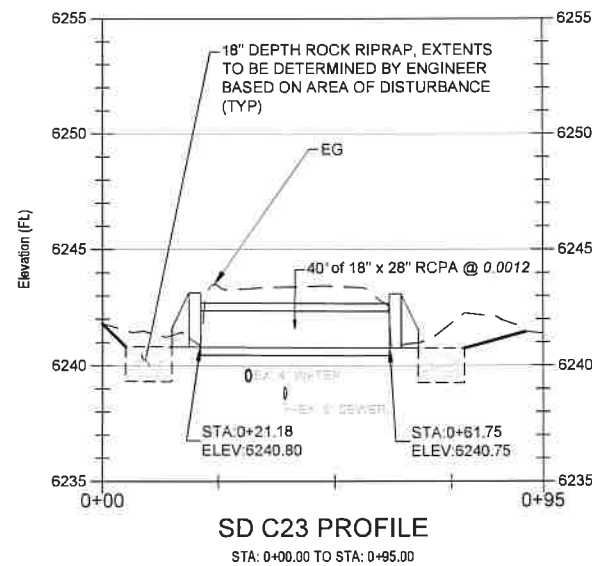
#	DATE	DESCRIPTION	BY	IT
1	5/13/22	EX-UTILITY UPDATE, AND 3D REVISIONS		



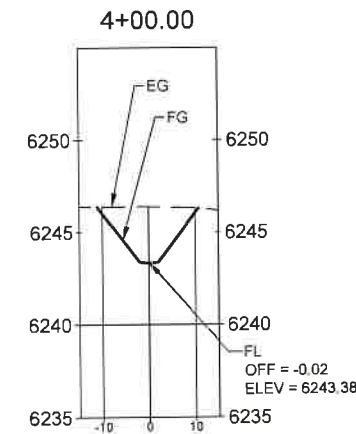
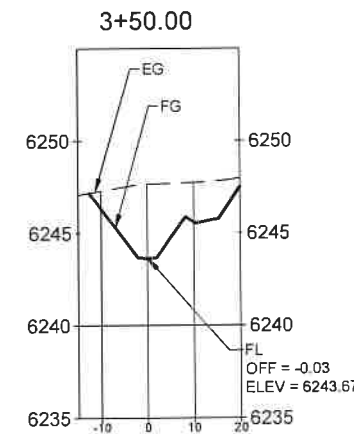
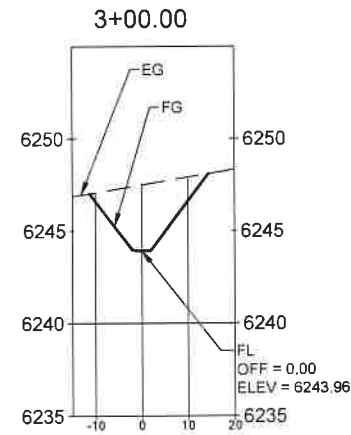
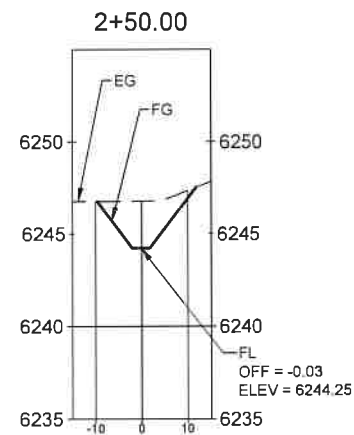
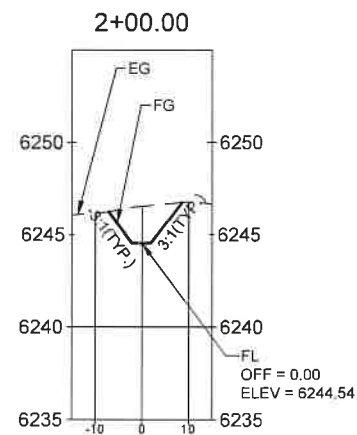
DATE | FEB 2023
DRAWN | ET
DESIGNED | JT / JD
CHECKED | JD / BM
PROJECT # | E326400600
SHEET TITLE
C-21
SHEET NUMBER

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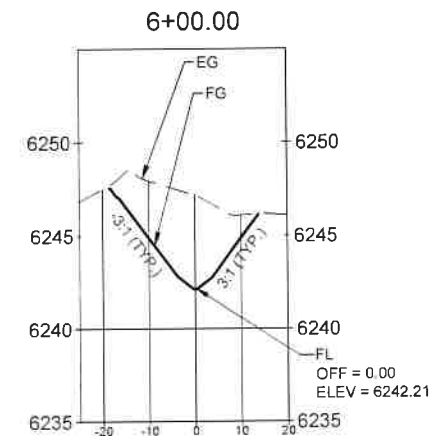
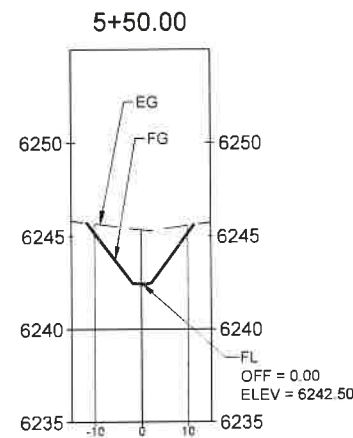
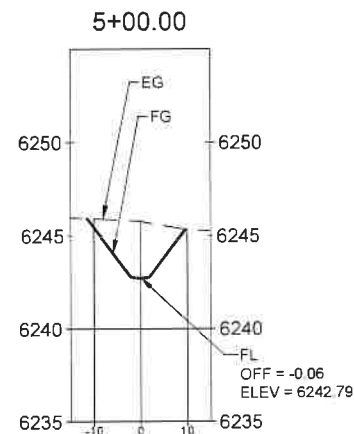
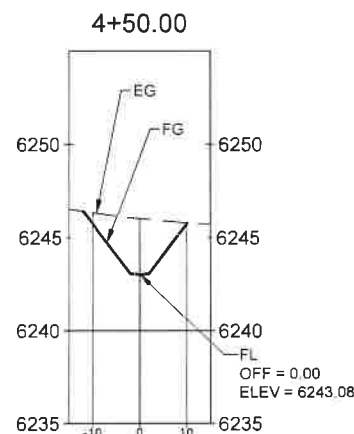
* CALL BEFORE YOU DIG *
CONTACT UNDERGROUND SERVICE ALERT (USA)
1-800-327-2600
PRIOR TO ANY CONSTRUCTION WORK



COUNCIL ROCK DRIVE CULVERT PROFILES
SEE SHEET C-21 FOR PLAN VIEWS
SEE DETAIL 2/D-3A FOR CULVERT SECTION



MEANDERING VEGETATED SWALE SECTIONS
SEE SHEET C-19 FOR PLAN VIEW
NOTE: ALL FG SIDE SLOPES SHOWN ARE 3:1, TYP.



MEANDERING VEGETATED SWALE SECTIONS
SEE SHEET C-19 FOR PLAN VIEW
NOTE: ALL FG SIDE SLOPES SHOWN ARE 3:1, TYP.

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HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

CONSTRUCTION SET

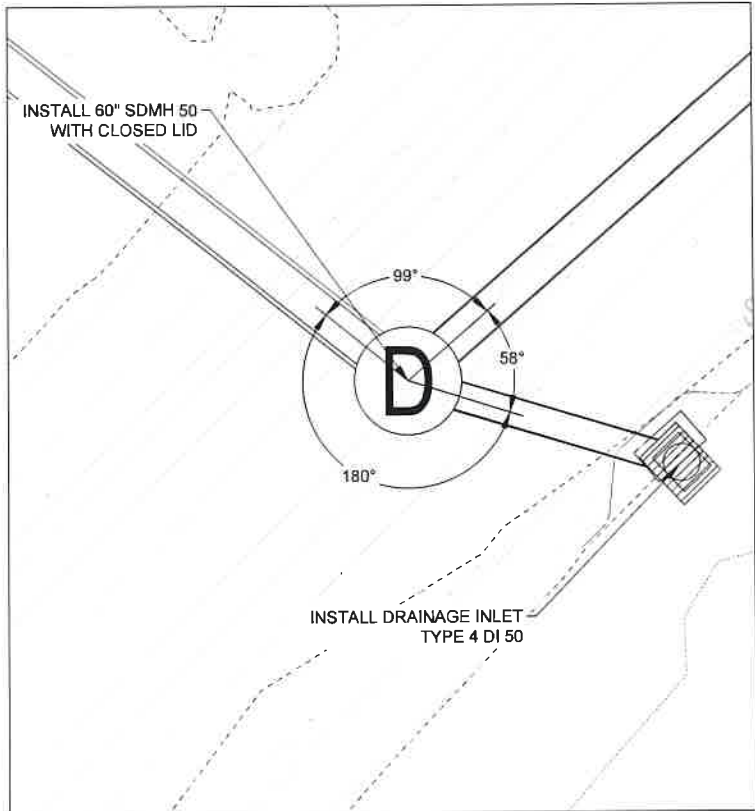
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TEL: (775) 598-9069 FAX: (775) 598-9219
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**COUNCIL ROCK DRIVE PROFILE
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA**

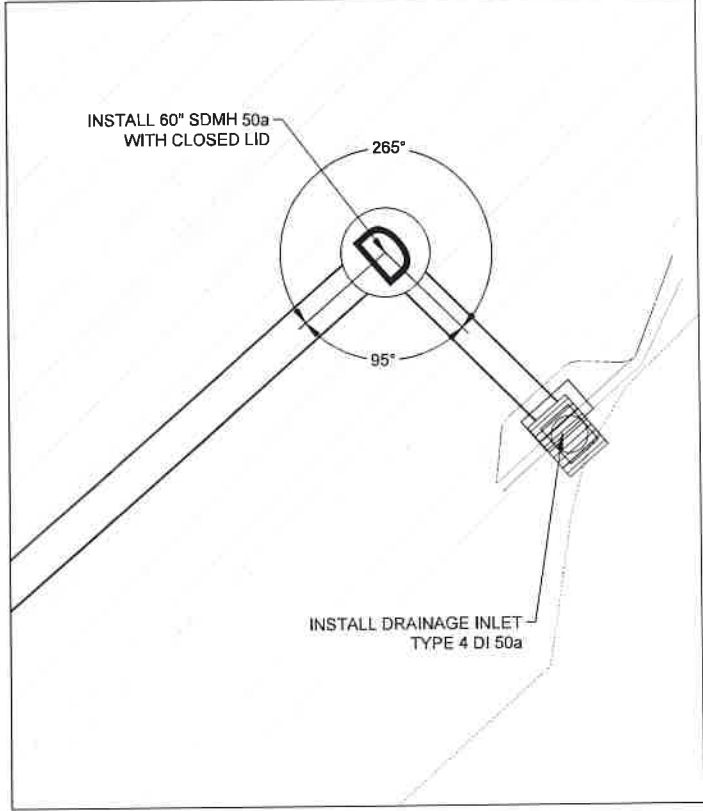
DATE	DESCRIPTION	BY	IT
5/13/22	EX. UTILITY UPDATES, AND SD REVISIONS		



DATE: FEB 2023
DRAWN: ET
DESIGNED: JTD
CHECKED: JTD/BM
PROJECT #: E320400600
SHEET TITLE: C-22
SHEET NUMBER: 45



SDMH 50, SEE SHEET C-19



SDMH 50a, SEE SHEET C-19


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Regulations, and Ordinances.



CONSTRUCTION SET

#	DATE	DESCRIPTION	BY
1	9/13/22	EX. UTILITY UPDATES AND 3D REVISIONS	IT
2	12/16/22	EX. UTILITY UPDATES AND 3D REVISIONS	IT

DATE

FEB 2023

DRAWN

ET

DESIGNED

IT/JD

CHECKED

JD/BM

PROJECT #

E328400600

SHEET TITLE

C-24


SHEET NUMBER

46

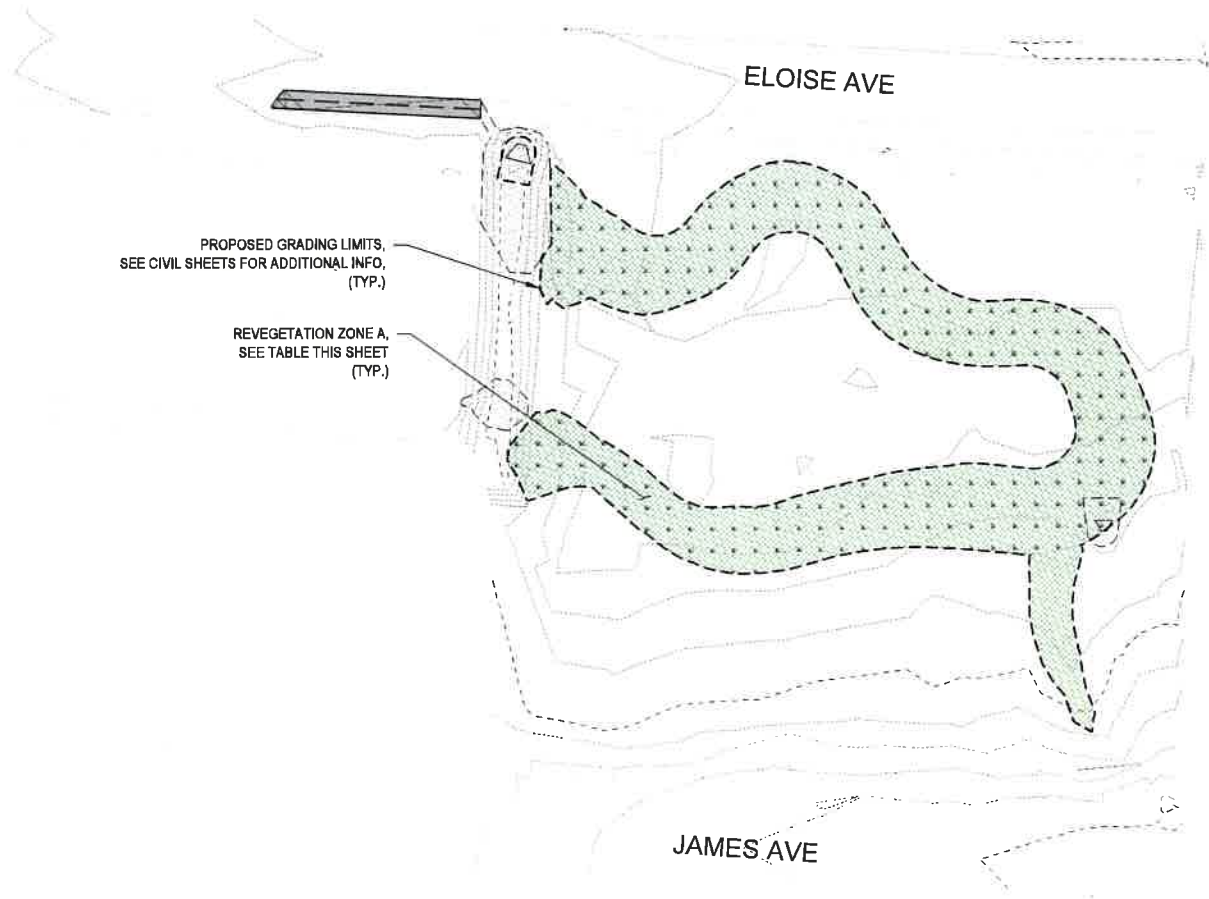


12/16/22

Plot Stamp: 2/13/2023 4:10:46 PM - Tujillo, Ivan
File: D:\237000\0107_Initial\115 CAD\Phase 111 DWG\33 Sheet\TVGS_VEG.dwg, Tab: REVEGETATION SHEET 3

REVEGETATION QUANTITIES				
KEY	ZONE	ITEM DESCRIPTION	UNIT	QUANTITY
	REVEGETATION ZONE A		SF	11,210
		TREATMENT TYPE 1 (TT1) - ORGANIC MATTER AND TOPSOIL SALVAGE AND REPLACEMENT		
		TREATMENT TYPE 2 (TT2) - SOD SALVAGE AND REPLACEMENT		
		TREATMENT TYPE 5-2 (TT5-2) - SEEDING MIX 2		
		TREATMENT TYPE 8 (TT8) - COIR 40/400 NETTING INSTALLATION		

NOTE: REFER TO SPECIAL PROVISIONS FOR TREATMENT TYPE INFORMATION



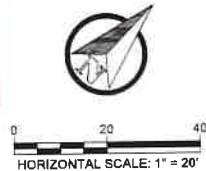
VEGETATED SWALE 1 (VS1) - JAMES/ELOISE VEGETATED SWALE

CAUTION! THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE. ALL EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO CONSTRUCTION.

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1-800-227-2600
PRIOR TO ANY CONSTRUCTION WORK



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CONSTRUCTION SET

DATE	DESCRIPTION	BY

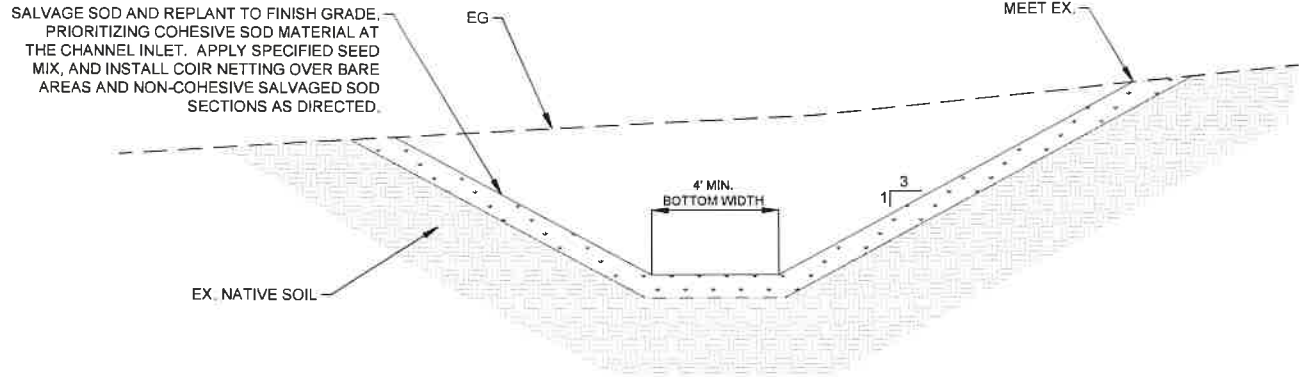


4/11/22

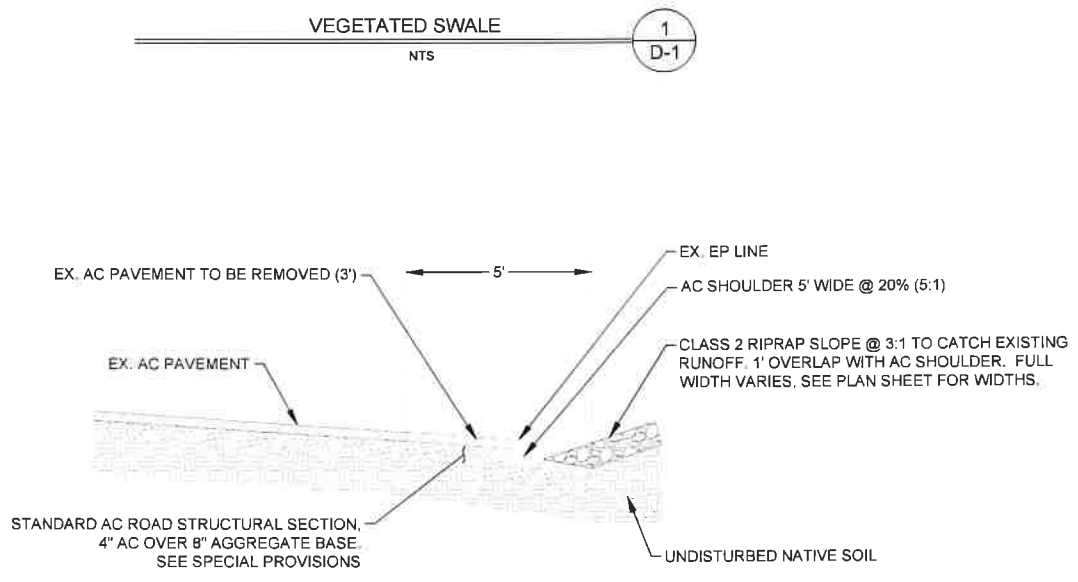
DATE	FEB 2023
DRAWN	BT
DESIGNED	IT/JD
CHECKED	JD/BM
PROJECT #	E330400600
SHEET TITLE	REVEG-3
SHEET NUMBER	47

REVEGETATION SHEET 3
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

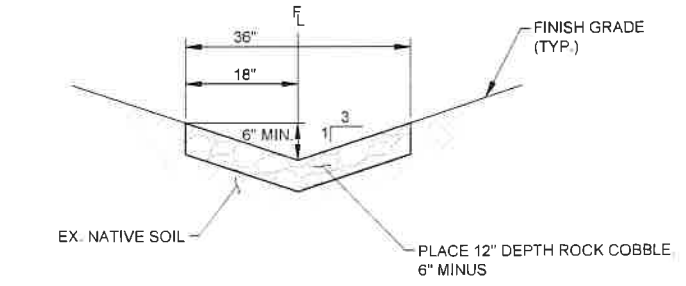
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286 HIGHWAY 50, ZEPHYRUS, CA 96148
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NOTES:
1. VEGETATED SWALE WIDTH VARIES. SEE CIVIL SHEETS FOR ADDITIONAL INFORMATION.
2. SEE SHEET REVEG-3 AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



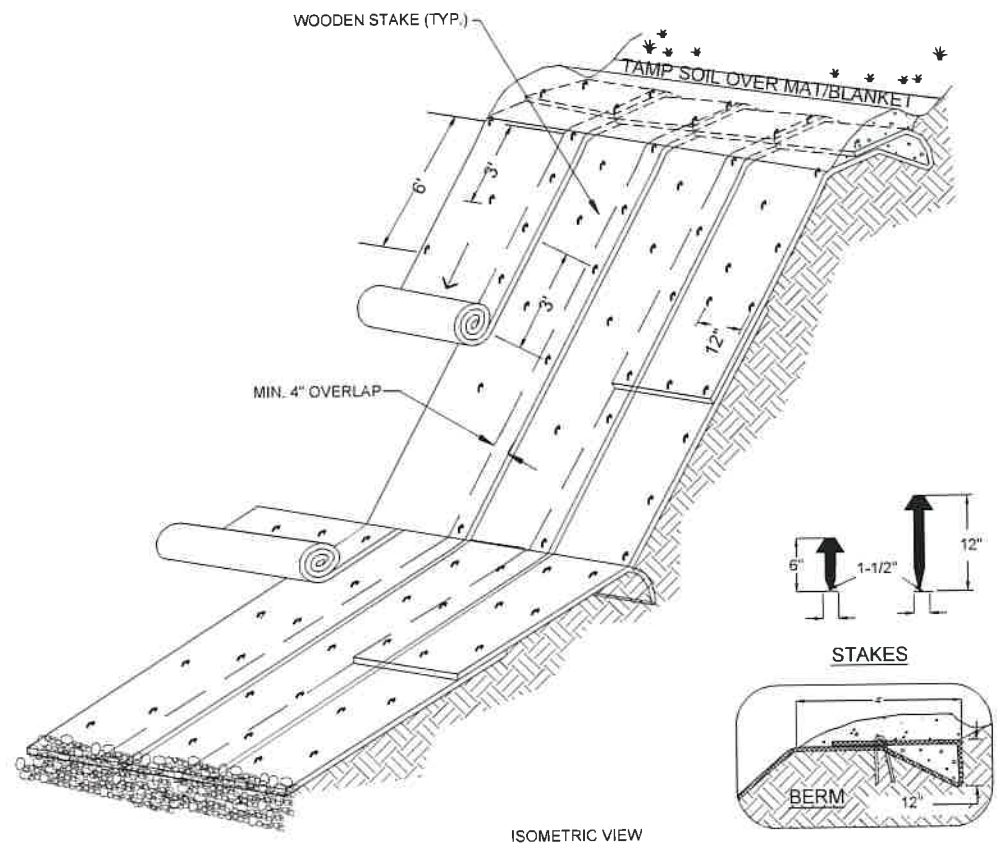
F ST. DRAINAGE "V" DITCH
NTS
2
D-1



NOTES:
1. SEE GRADING SHEETS FOR GRADING INFORMATION OF ROCK LINED SWALE AREAS. INFORMATION SHOWN IN DETAIL IS REPRESENTATIVE ONLY.

ROCK LINED SWALE
NTS
3
D-1

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TYPICAL SLOPE SOIL STABILIZATION

NOTES:
1. SLOPE STABILIZATION MATERIAL SHALL BE GEOCOIR/DeKowe 700 BIO-DEGRADABLE COIR AND JUTE MATTING OR EQUAL.
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
5. MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.

EROSION CONTROL BLANKET. SLOPE STABILIZATION
NTS
4
D-1

DETAIL SHEET 1
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

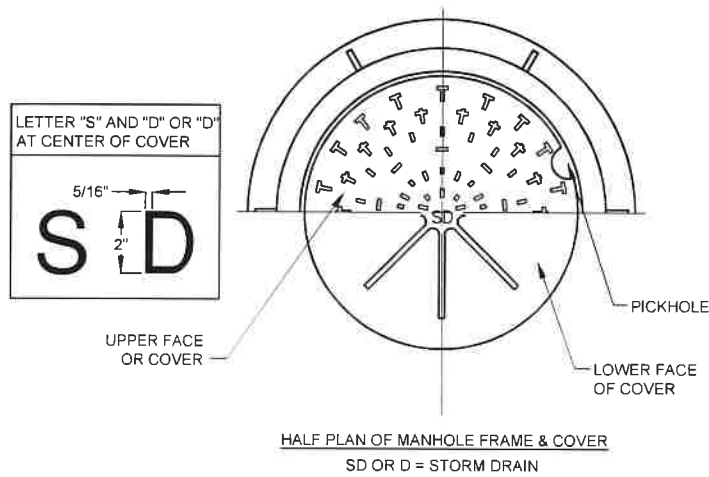
NO.	DATE	DESCRIPTION	BY



DATE	1 FEB 2023
DRAWN	ET
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E320400600
SHEET TITLE	D-1
SHEET NUMBER	48

CONSTRUCTION SET

Plot Stamp: 2/13/2023 4:11:00 PM, Trujillo, Ivan
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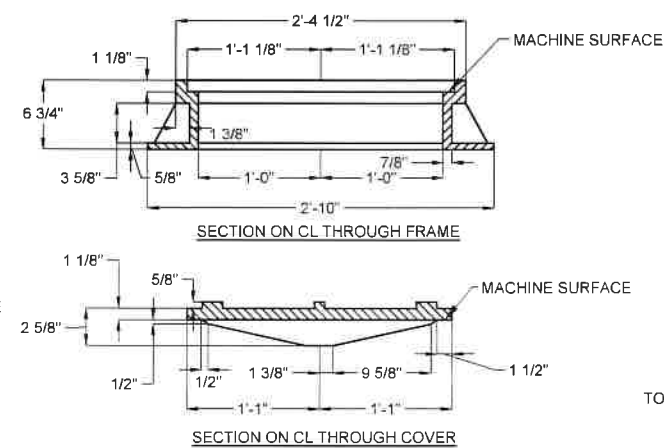


STORMDRAIN MANHOLE 24" FRAME AND COVER

NTS

2

D-2



FRAME SHALL BE SECURED TO RISER OR TOP OF STRUCTURE WITH MORTAR CEMENT.

GRADE RINGS SHALL NOT EXCEED 18" IN HEIGHT (TYP.)

OUTSIDE OF PAVED AREA

MANHOLE FRAME AND COVER FINISHES

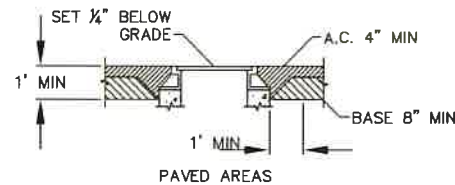
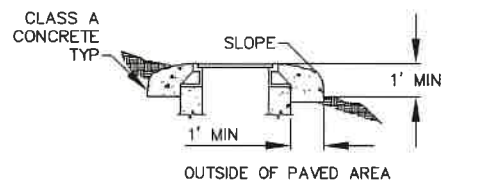
NTS

3

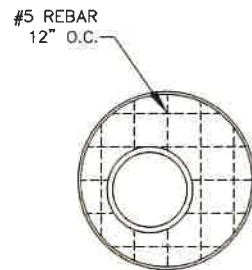
D-2

GRADE RINGS SHALL NOT EXCEED 18" IN HEIGHT (TYP.)

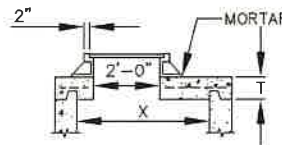
PAVED AREAS



MANHOLE FRAME AND COVER FINISHES



FLAT SLAB TOP



FLAT SLAB

FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT

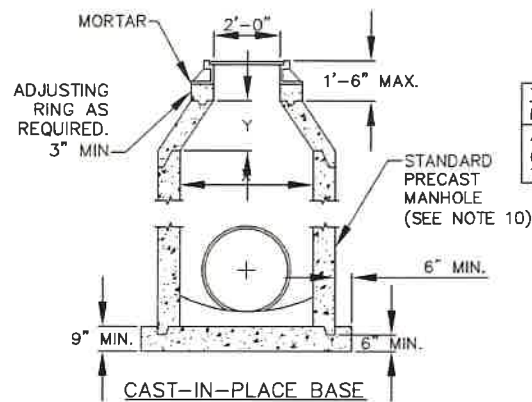


TABLE OF DIMENSIONS					MAX PIPE
M.H.	X	Y	T	MIN	INNER DIA
48"	48"	18"	8"		30"
60"	60"	30"	9"		42"
72"	72"	42"	10"		54"

NOTES:

1. ECCENTRIC CONES SHALL BE USED WHEN SPECIFIED ON THE PLANS.
2. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROVE.
3. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478.
4. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH MORTAR CEMENT.
5. DIMENSION "Y" IS A MINIMUM DIMENSION AND MAY BE GREATER IF DEPTH PERMITS.
6. MANHOLE FLOORS SHALL HAVE WOOD TROWEL FINISH AND SLOPE FROM ALL DIRECTIONS TOWARD THE OUTLET.
7. COVER FOR STORM DRAINS SHALL BEAR THE LETTER "D" OR "SD".
8. EXTRA DEPTH MANHOLES OR MANHOLES WITH PIPES OVER 54 INCHES IN DIAMETER SHALL REQUIRE SPECIAL DESIGN.
9. THERE SHALL BE AN 8 INCH MINIMUM CLEAR DISTANCE BETWEEN ALL PIPE OUTSIDE DIAMETERS AT THE MANHOLE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
10. CAST-IN-PLACE MANHOLE WALLS MAY BE APPROVED BY THE ENGINEER. ALL CAST-IN-PLACE MANHOLES MUST BE FORMED IN A CIRCULAR SHAPE CONSISTENT WITH THE DIAMETER SPECIFIED ON THE PLANS AND REQUIRED TO FIT UPPER PRECAST SECTIONS. MINIMUM WALL THICKNESS SHALL BE 8 INCHES. MAXIMUM HEIGHT OF THE CAST-IN-PLACE SHALL BE 60 INCHES (MEASURED FROM THE TOP OF THE MANHOLE). PRECAST RINGS SHALL BE SET WET OR REQUIRED KEY FORM SHALL BE INCLUDED IN THE FORM WORK TO ACCEPT THE PRECAST KEY. ALL CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED BY AN ACCEPTABLE METHOD TO ENSURE VOIDS ARE REMOVED.
11. ANY VARIATIONS FROM THIS DETAIL OR SPECIAL MANHOLES AND JUNCTIONS BOXES WILL REQUIRE DESIGN REVIEW AND APPROVAL BY THE ENGINEER.



City of South Lake Tahoe
ENGINEERING DEPARTMENT
STORMDRAIN MANHOLE (SDMH)

APPROVED BY: 05/01/2009 CITY ENGINEER

NOT TO SCALE

STANDARD DRAWING
SD40

48", 60", AND 72" DIAMETER STORM DRAIN MANHOLE

NTS

1

D-2

TAHOE REGIONAL PLANNING AGENCY

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DATE DESCRIPTION



DATE: FEB 2023
DRAWN: ET
DESIGNED: JT / JD
CHECKED: JD / BM
PROJECT #: E320400600
SHEET TITLE: D-2
SHEET NUMBER: 49

CONSTRUCTION SET

DETAIL SHEET 2

TVSG IMPROVEMENT PROJECT PHASE I

CITY OF SOUTH LAKE TAHOE

SOUTH LAKE TAHOE, CA



LAKE TAHOE
255 HIGHWAY 50, ZEPHYRUS, NV 89448
TEL: (775) 588-9069 FAX: (775) 588-9219
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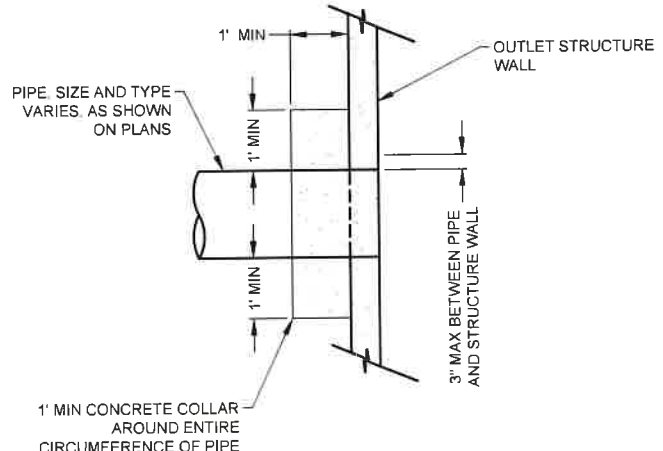
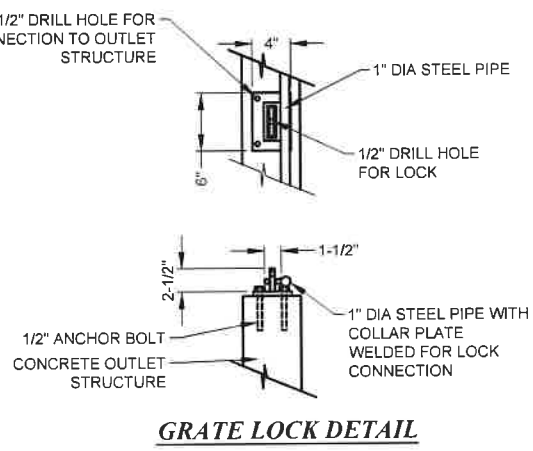
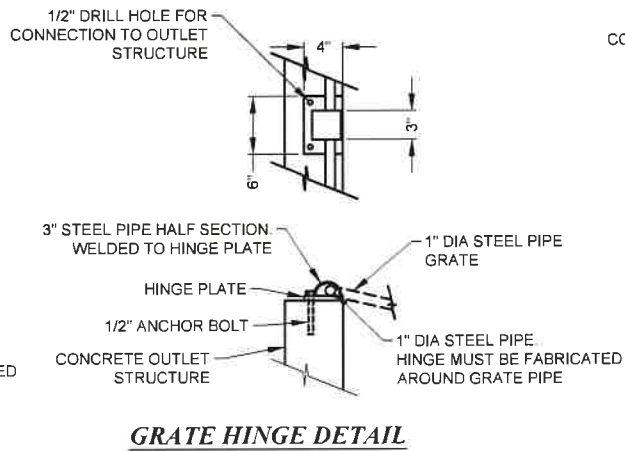
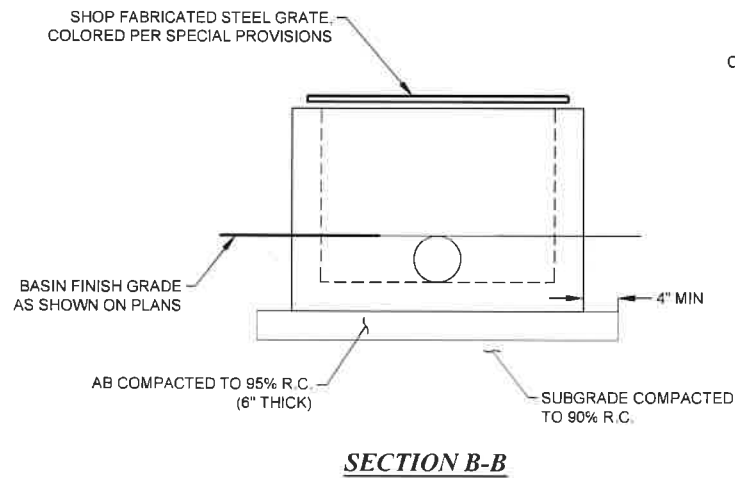
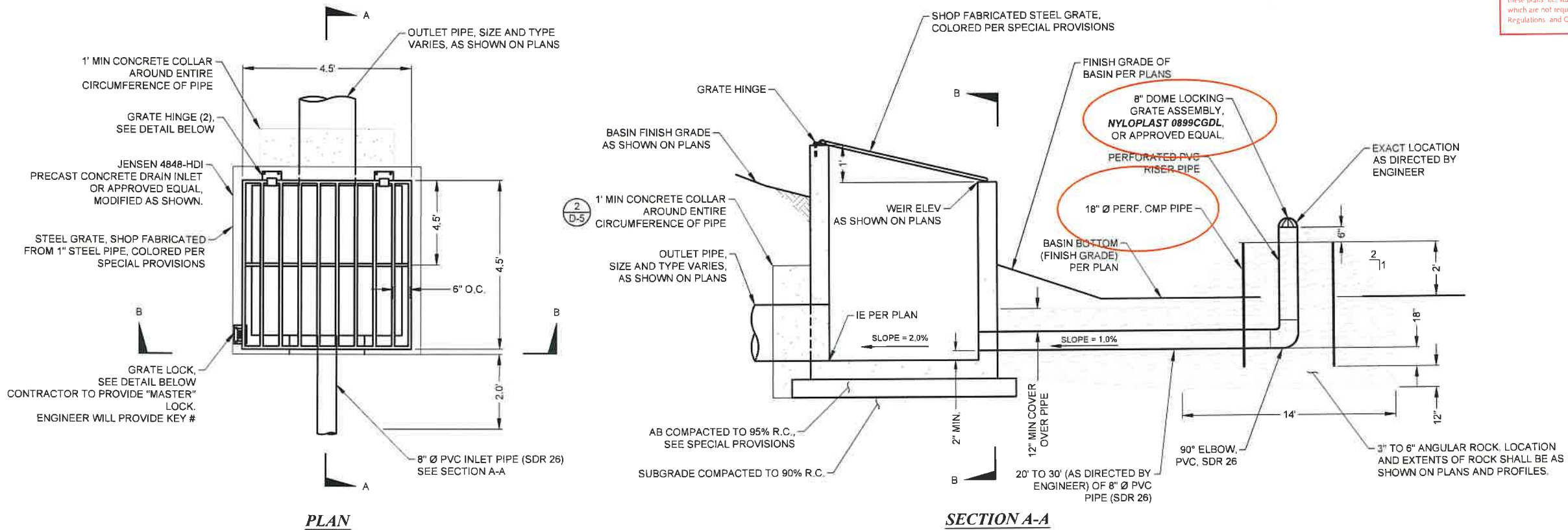
DETAIL SHEET 5
TVSG IMPROVEMENT PROJECT PHASE I
CITY OF SOUTH LAKE TAHOE
SOUTH LAKE TAHOE, CA

BY	DATE	DESCRIPTION

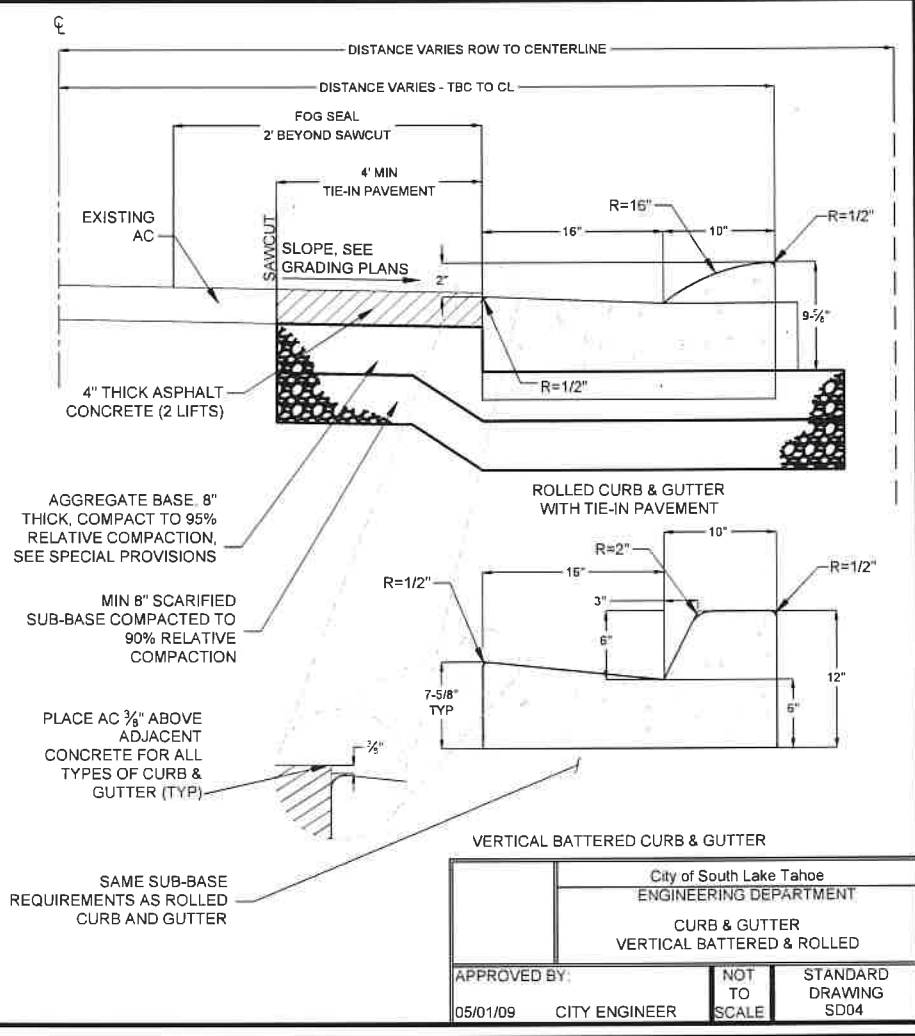


DATE	1 FEB 2023
DRAWN	BT
DESIGNED	IT / JO
CHECKED	JO / BM
PROJECT #	E328400600
SHEET TITLE	D-5
SHEET NUMBER	53

CONSTRUCTION SET

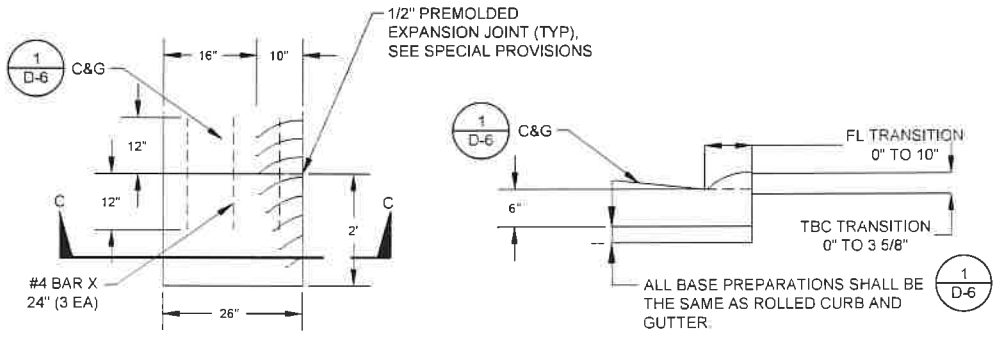


1. CONCRETE SHALL BE 7 SACK MIX AND SHALL CONFORM TO SECTION 90 OF THE CALTRANS STANDARD SPECIFICATIONS WITH 6% AIR ENTRAINMENT. CEMENT CONTENT SHALL NOT BE LESS THAN 658 LBS PER CY.
2. THE MATERIALS AND METHOD OF PLACING SHALL CONFORM TO SECTION 73 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. CONCRETE SHALL HAVE A LIGHT BROOM FINISH RUNNING PARALLEL WITH THE FLOWLINE.
4. CONCRETE SHALL BE SPRAYED UNIFORMLY WITH A CLEAR PIGMENTED CURING COMPOUND IMMEDIATELY FOLLOWING BROOM FINISHING. THE MATERIAL, METHOD, AND RATE OF APPLICATION SHALL CONFORM TO SPECIAL PROVISIONS.
5. ALL BASE MATERIAL SHALL BE COMPACTED AND TESTED BY THE CITY OR BY A THIRD PARTY INSPECTOR AT THE CITY'S DISCRETION PRIOR TO CONCRETE POUR. NOTIFY THE CITY AT LEAST 24 HRS PRIOR TO POUR.
6. CONTRACTOR SHALL CONTACT INSPECTOR FOR SCHEDULING CURB STRINGLINE INSPECTION AT LEAST 24 HRS PRIOR TO CONCRETE POUR.
7. ALL FLOWLINES SHALL BE WATER TESTED BEFORE ACCEPTANCE FOR PAYMENT. CONTRACTOR SHALL CONTACT INSPECTOR TO SCHEDULE WATER TESTING.
8. LOCATE 2" DEEP TRANSVERSE SCORES AT 10' INTERVALS IN CURB AND GUTTERS. INSTALL EXPANSION JOINTS AT 30' INTERVALS AND AT ALL COLD JOINTS.
9. NO WASHOUT OF TRUCKS AND/OR EQUIPMENT WILL BE ALLOWED ON SITE UNLESS A BASIN IS PROVIDED AND APPROVED BY THE INSPECTOR.
10. CONTRACTOR MUST TRENCH PLATE ALL DRIVEWAYS FOR 72 HOURS AFTER CONCRETE POUR.
11. CITY HAS THE RIGHT TO REJECT CURB FOR NON-CONFORMANCE AND/OR POST CONSTRUCTION DAMAGE.
12. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BMPs, AC CUTS AND REPLACEMENT, REVEGETATION AND ALL OTHER INCIDENTALS ASSOCIATED WITH CURB INSTALLATION.

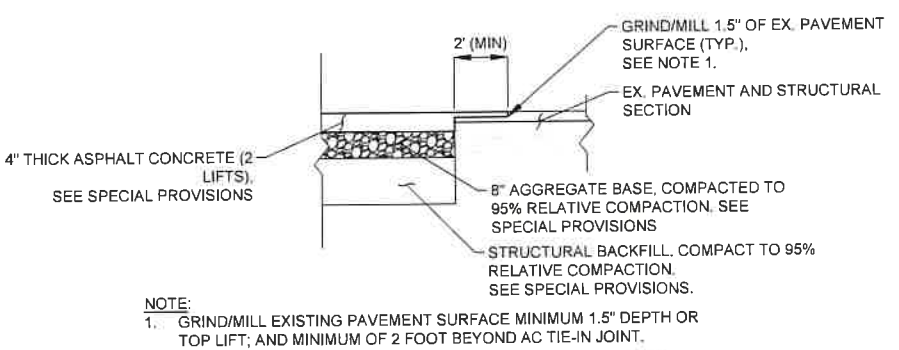


CURB AND GUTTER VERTICAL BATTERED & ROLLED
NTS
1
D-6

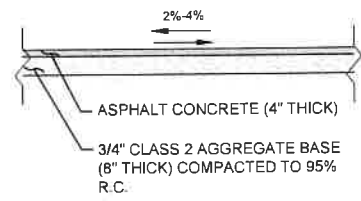
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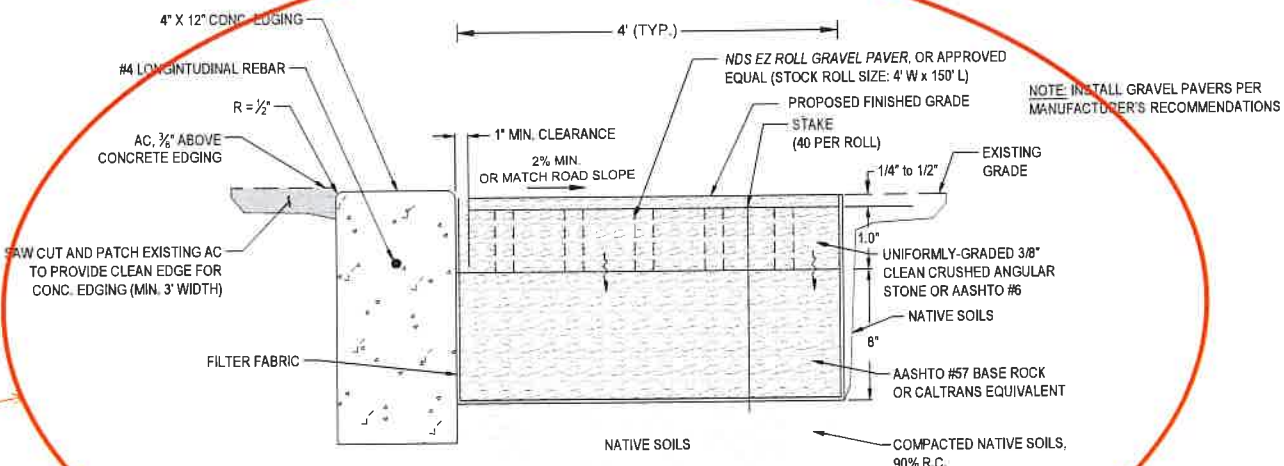
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NTS
2
D-6



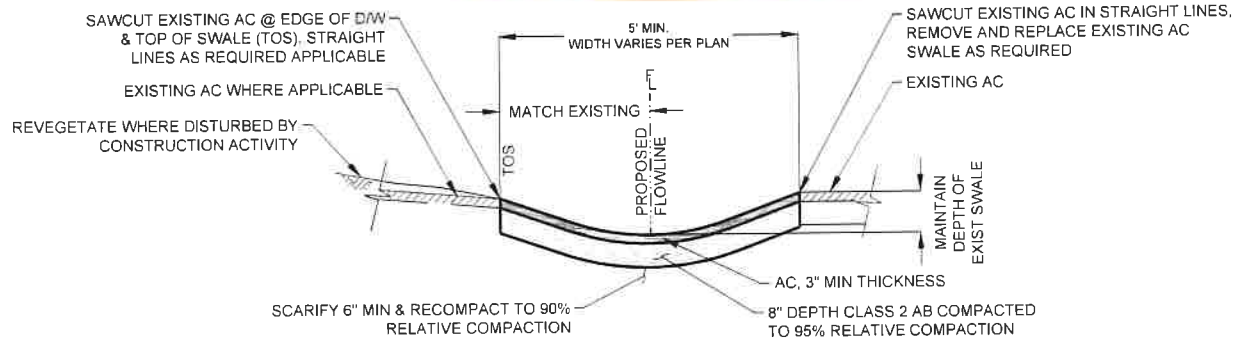
T-PATCH
NTS
3
D-6



AC ROADWAY SECTION
NTS
4
D-6



ROAD SHOULDER STABILIZATION - GRAVEL PAVERS
5
D-6



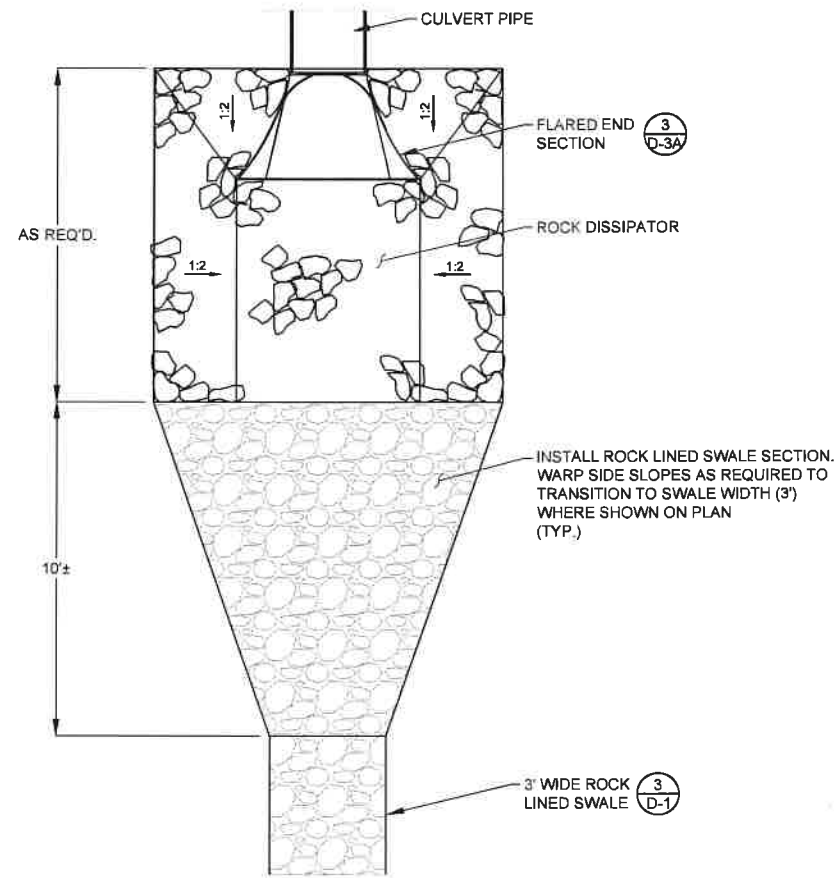
ROADSIDE AC SWALE
NTS
6
D-6

DATE	DESCRIPTION



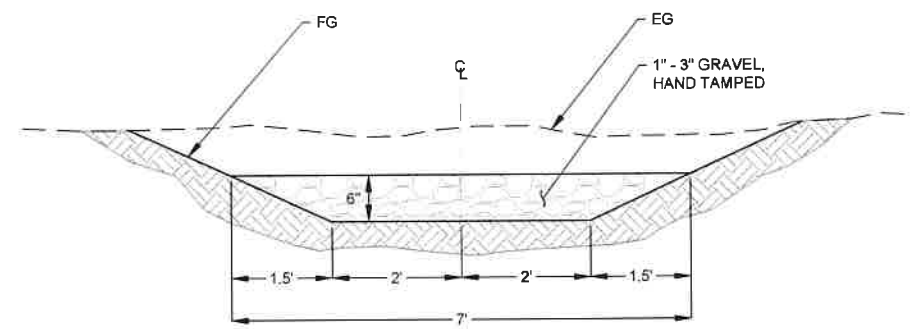
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DRAWN	ET
DESIGNED	IT / JD
CHECKED	JD / BM
PROJECT #	E330406500
SHEET TITLE	D-6
SHEET NUMBER	54

CONSTRUCTION SET

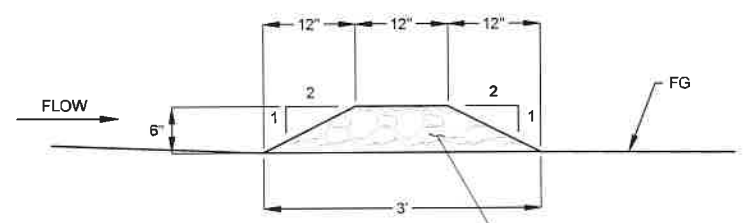


FES TO ROCK LINED SWALE TRANSITION
NTS

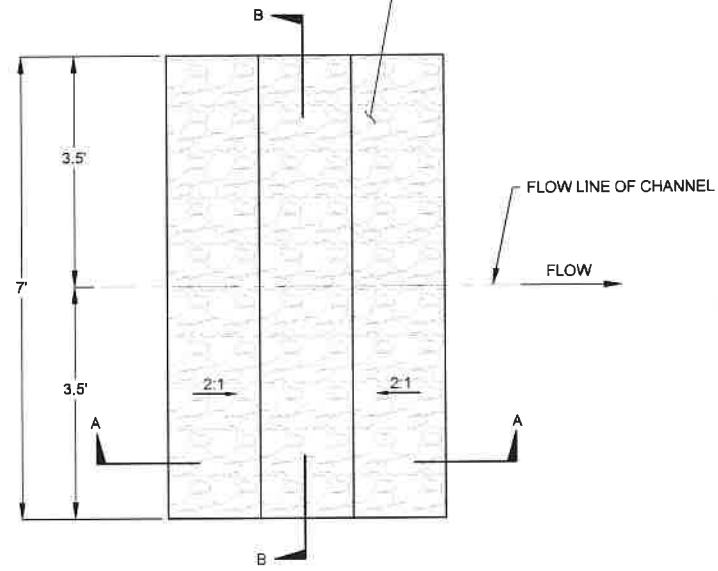
1
D-7



SECTION B-B



SECTION A-A




PLAN VIEW

GRAVEL CHECK DAM
NTS

2
D-7

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295 HIGHWAY 50, ZEPHYROVE, NV 89448
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DETAIL SHEET 7

TVSG IMPROVEMENT PROJECT PHASE I

CITY OF SOUTH LAKE TAHOE

SOUTH LAKE TAHOE, CA

DATE	DESCRIPTION

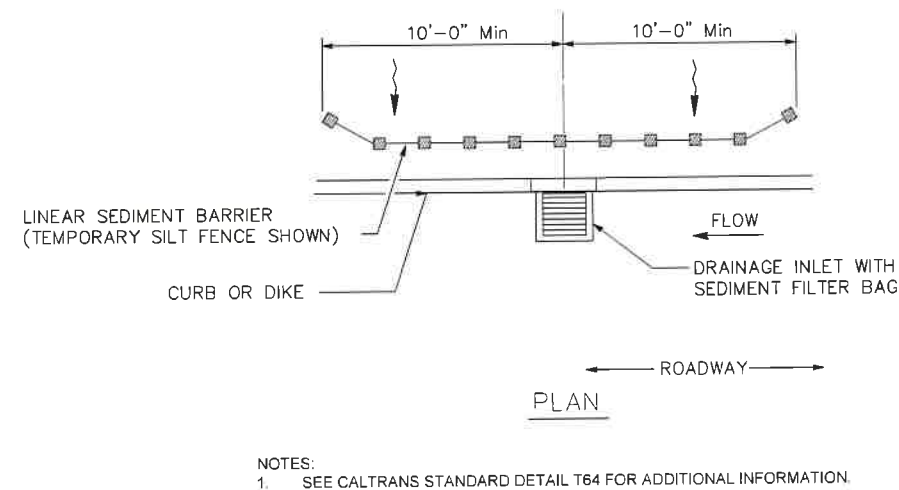
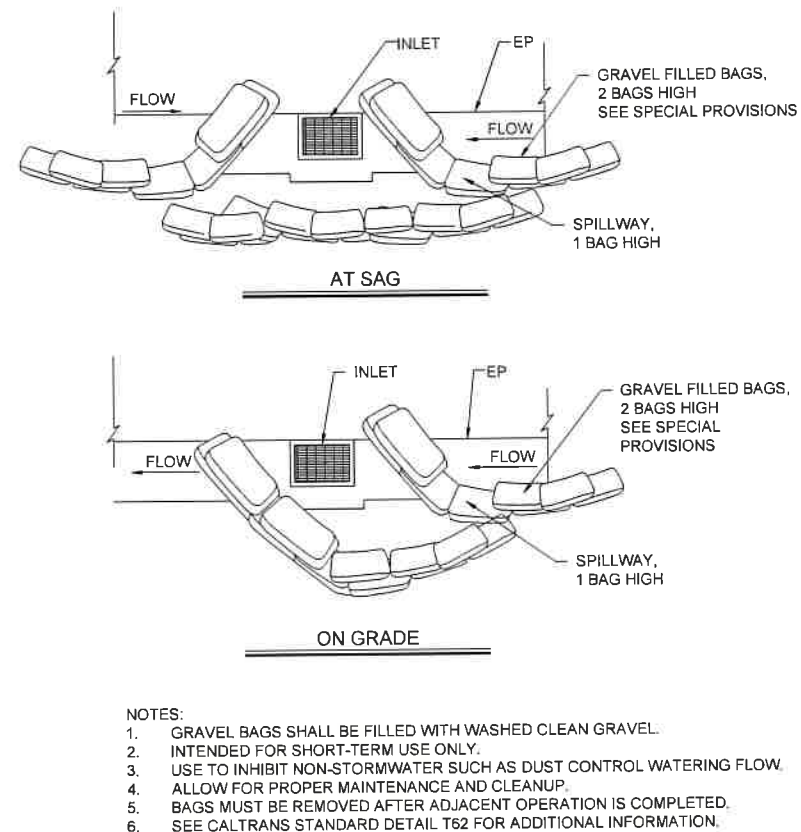
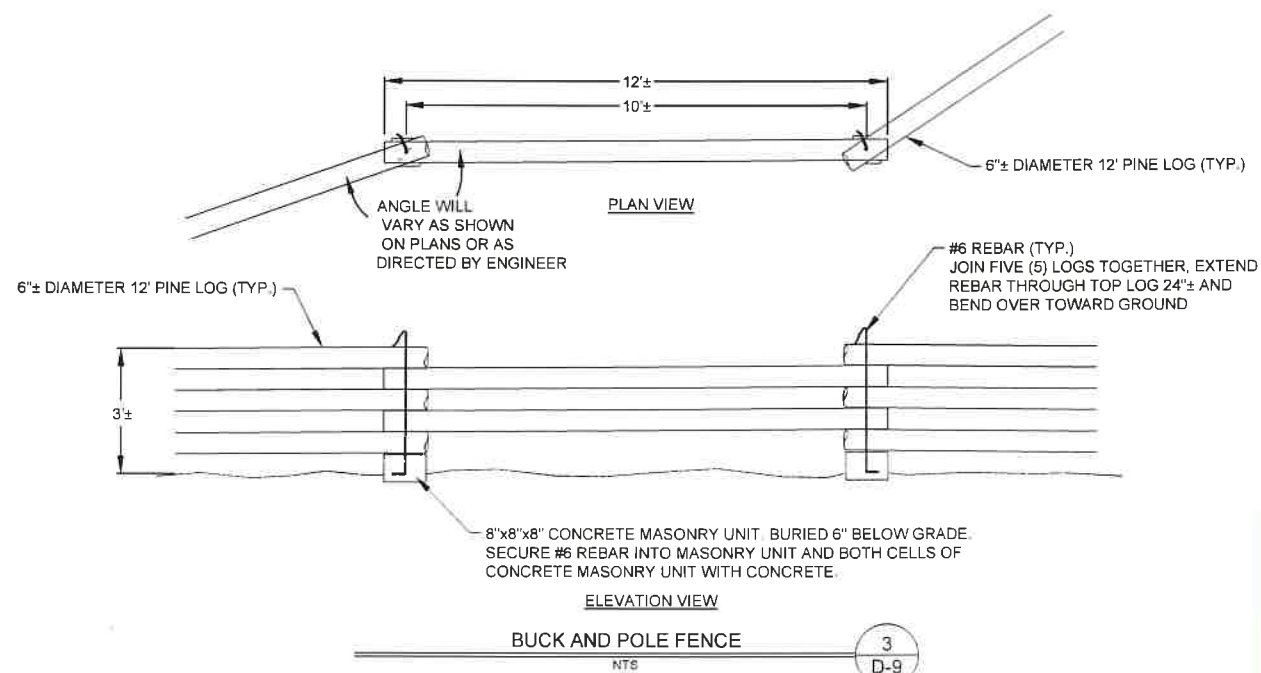
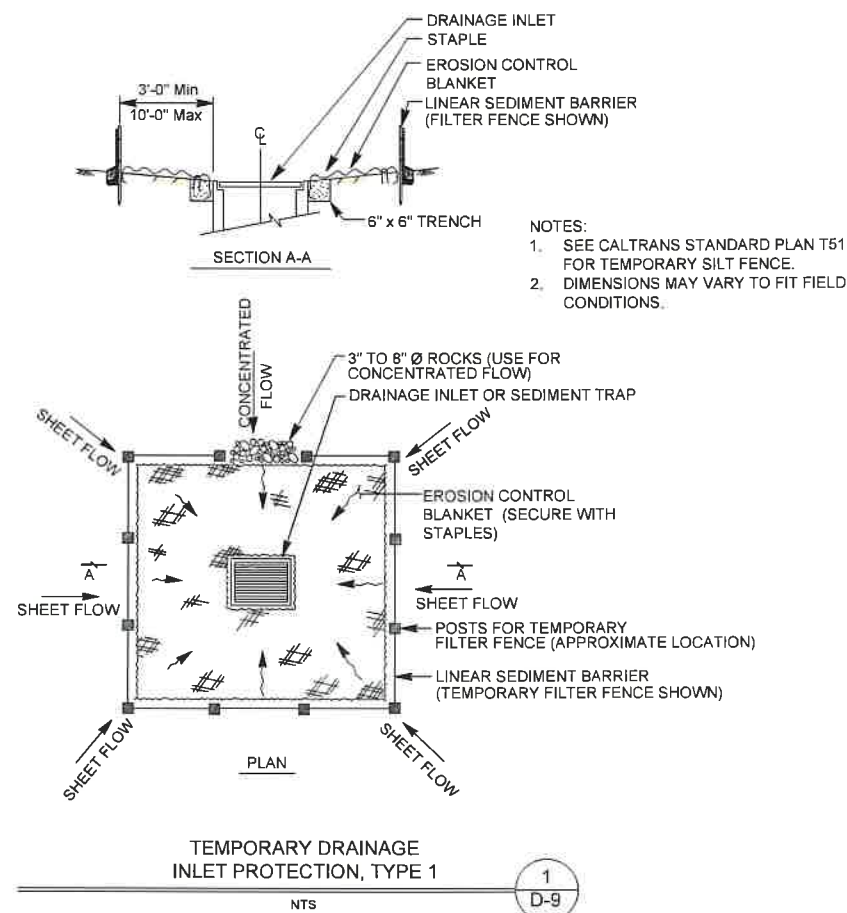


4/11/22

DATE	1 FEB 2023
DRAWN	I BT
DESIGNED	I JT / JD
CHECKED	JD / BM
PROJECT #	E320400600
SHEET TITLE	D-7
SHEET NUMBER	55

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AGENCY

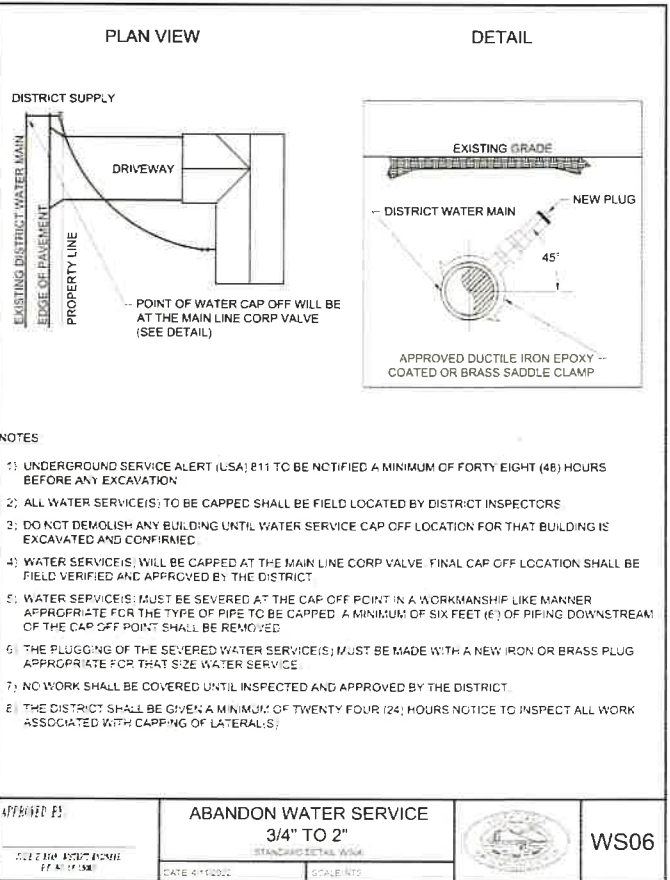
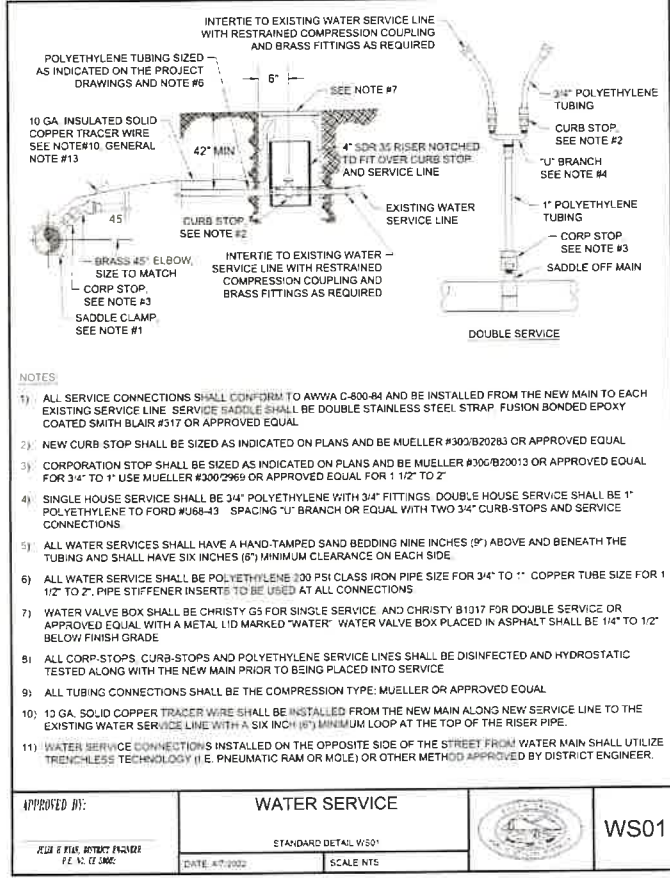
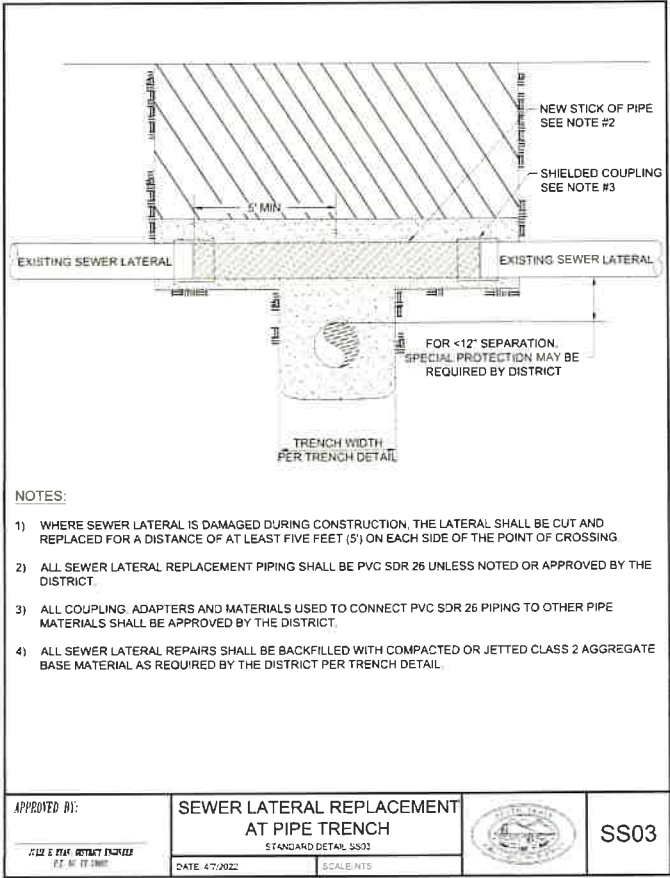
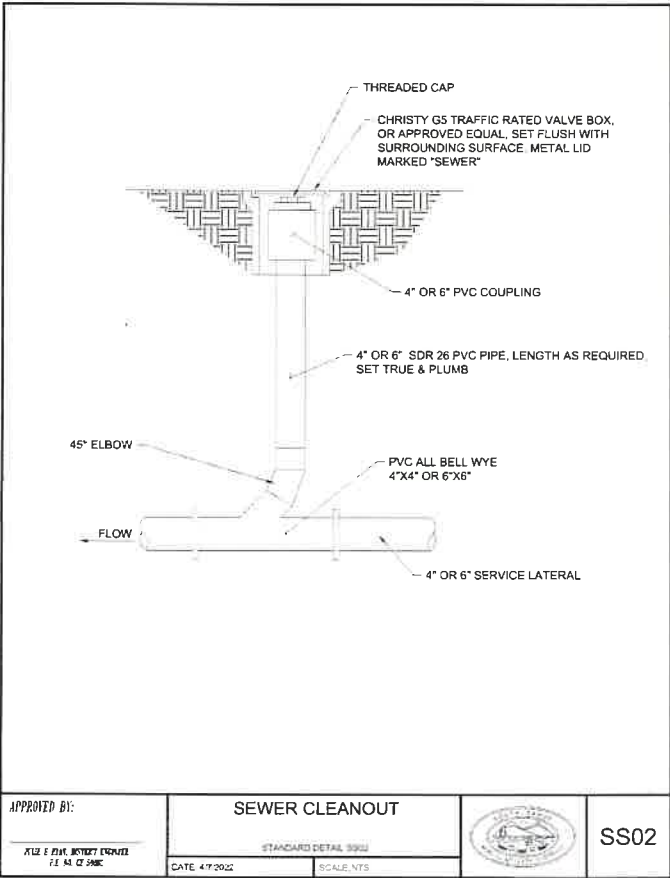
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which are not required for review under said Rules,
Regulations, and Ordinances.

CONSTRUCTION SET

#	DATE	DESCRIPTION



DATE	1 FEB 2023
DRAWN	I ET
DESIGNED	I JT / JD
CHECKED	I JD / BM
PROJECT #	I E320400600
SHEET TITLE	D-9
SHEET NUMBER	57



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#	DATE	DESCRIPTION



DATE	4/11/22
DRAWN	I BT
DESIGNED	I JT / JD
CHECKED	I JD / BM
PROJECT #	E320406800
SHEET TITLE	D-11
SHEET NUMBER	59

CONSTRUCTION SET