

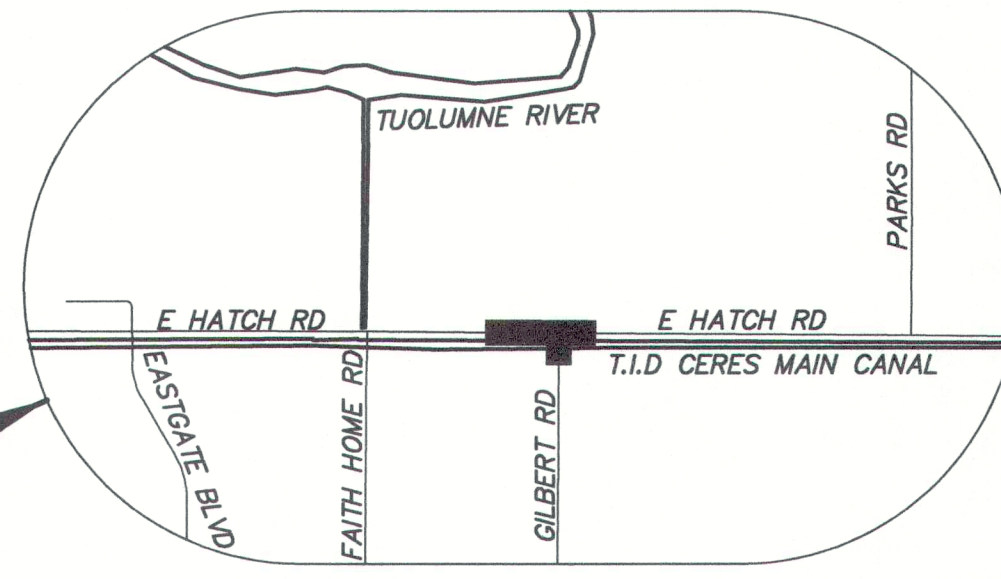
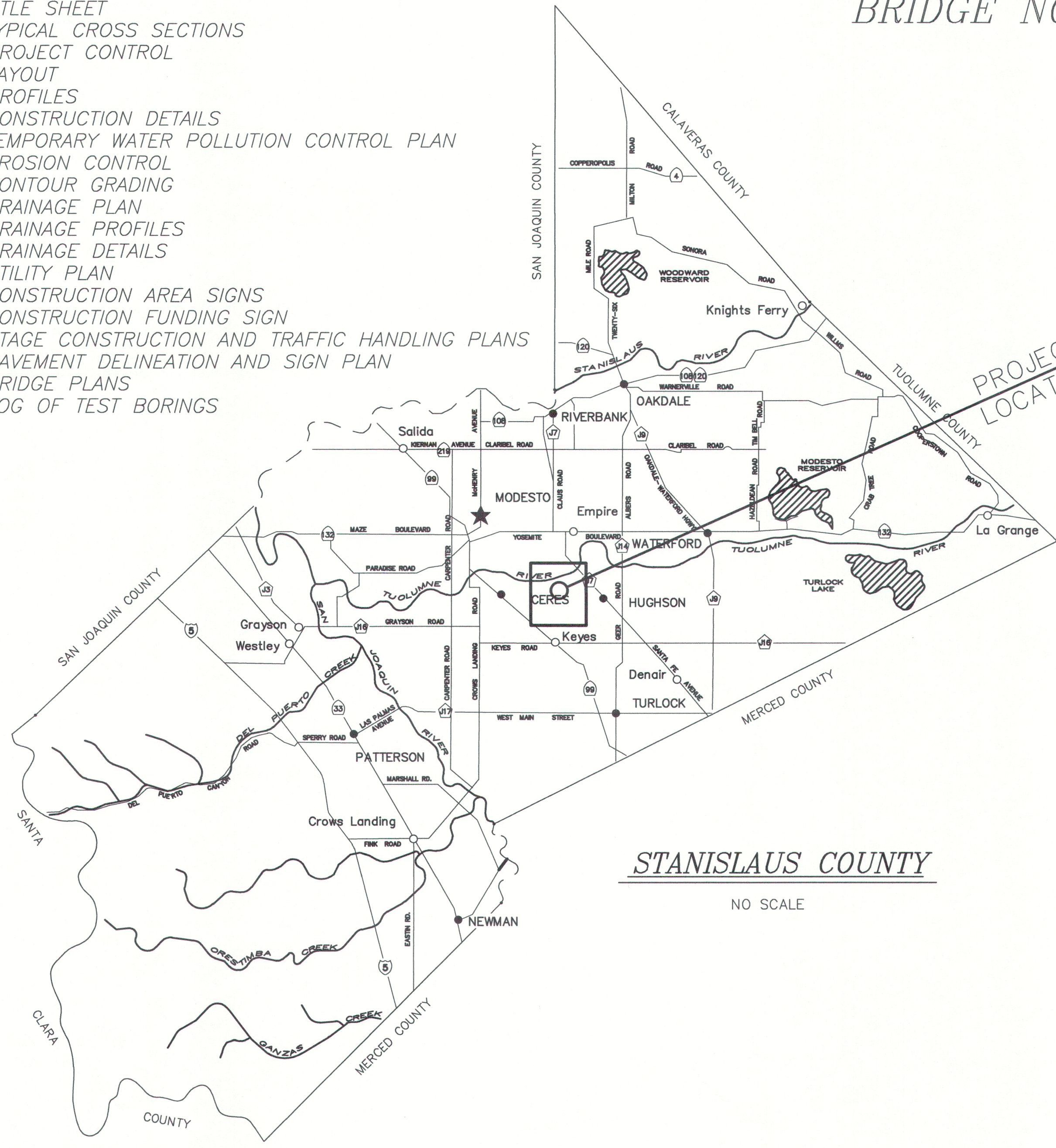
STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
PLANS FOR THE CONSTRUCTION OF

GILBERT ROAD REPLACEMENT
OVER TURLOCK IRRIGATION DISTRICT CERES MAIN CANAL
STANISLAUS COUNTY, CALIFORNIA

INDEX OF SHEETS

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FEDERAL PROJECT NO. BRLO-5938(190)
BRIDGE NO. 38C-0348



VICINITY MAP

NO SCALE



STANISLAUS COUNTY

NO SCALE

Dewberry drake haglan
DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
STANDARD PLANS DATED 2015

A3A	RSP A20C	RSP A77L1	D77B	T58
A3B	RSP A20D	RSP A77N1	D82	T59
A3C	A24A	RSP A77N3	D84	T62
A10A	A24B	RSP A77N4	D94B	RSP T65
RSP A10B	A24C	RSP A77P1	RSP H51	B0-1
A10C	A24D	RSP A77Q1	T3A	RSP B0-3
A10D	A62A	RSP A77Q4	T3B	B3-5
A10E	A62E	A77U4	T5	RS1
RSP A20A	A73A	RSP A87B	T51	RS2
RSP A20B	A73B	RSP D72B	T57	RS4

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



TITLE SHEET

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

APPROVED BY STANISLAUS COUNTY:

Chris Brady
CHRIS BRADY
DEPUTY DIRECTOR OF PUBLIC WORKS
STANISLAUS COUNTY

7/15/20
DATE

David Leamon
DAVID LEAMON
DIRECTOR OF PUBLIC WORKS
STANISLAUS COUNTY

7/15/2020
DATE



JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	NO SCALE

SHEET NUMBER	1
OF 38 SHEETS	



LEGEND:

- [1] — 0.5' HMA (TYPE A, 3/4")
1.25' CLASS 2 AGGREGATE BASE
- [2] — 1.75' CLASS 2 AGGREGATE BASE

NOTES:

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR EXACT LOCATIONS OF PAVEMENT TRANSITIONS, DRIVEWAYS, CONCRETE BARRIER, HMA DIKES, MGS AND CRASH CUSHIONS, SEE LAYOUT.
- SEE CONSTRUCTION DETAILS NO. 1 AND NO. 2 FOR ROADWAY PAVEMENT ELEVATIONS.
- SUBGRADE TO BE THE SAME AS TYPICAL SURFACE SLOPE UNLESS OTHERWISE NOTED.
- SEE CONSTRUCTION DETAILS NO. 4 FOR HMA PAVEMENT CONFORM DETAIL.

GILBERT ROAD DESIGN DESIGNATION

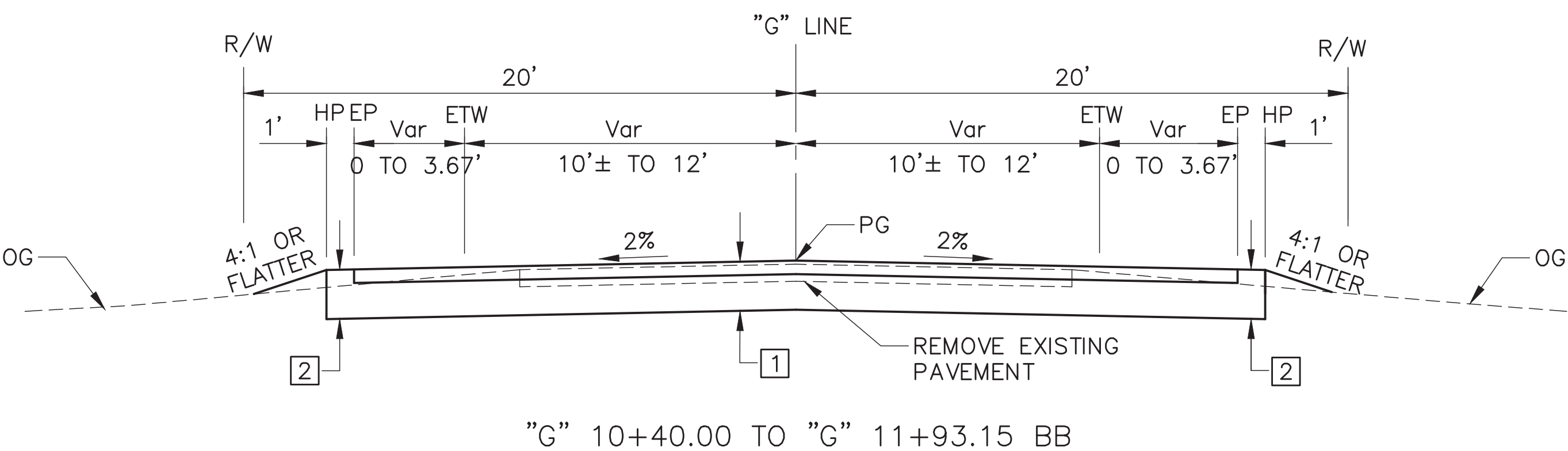
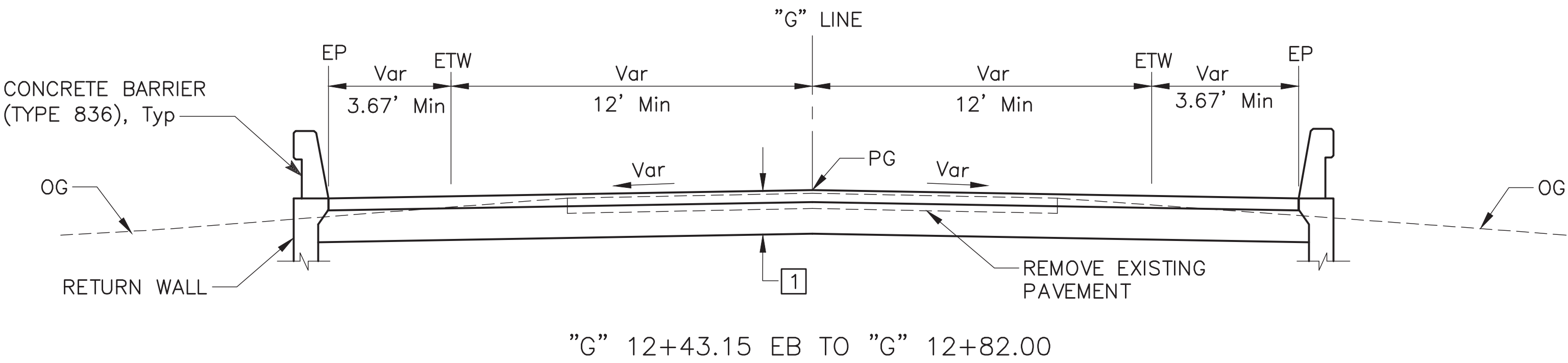
ROAD CLASSIFICATION
AVERAGE DAILY TRAFFIC (CURRENT – 2009)
AVERAGE DAILY TRAFFIC (FUTURE – 2028)
DESIGN SPEED
R-VALUE
TRAFFIC INDEX (TI)
TRUCKS

LOCAL RURAL
420
522
35 MPH – BRIDGE SOUTHERN APPROACH
20 MPH – BRIDGE NORTHERN APPROACH
23
9.0
3%

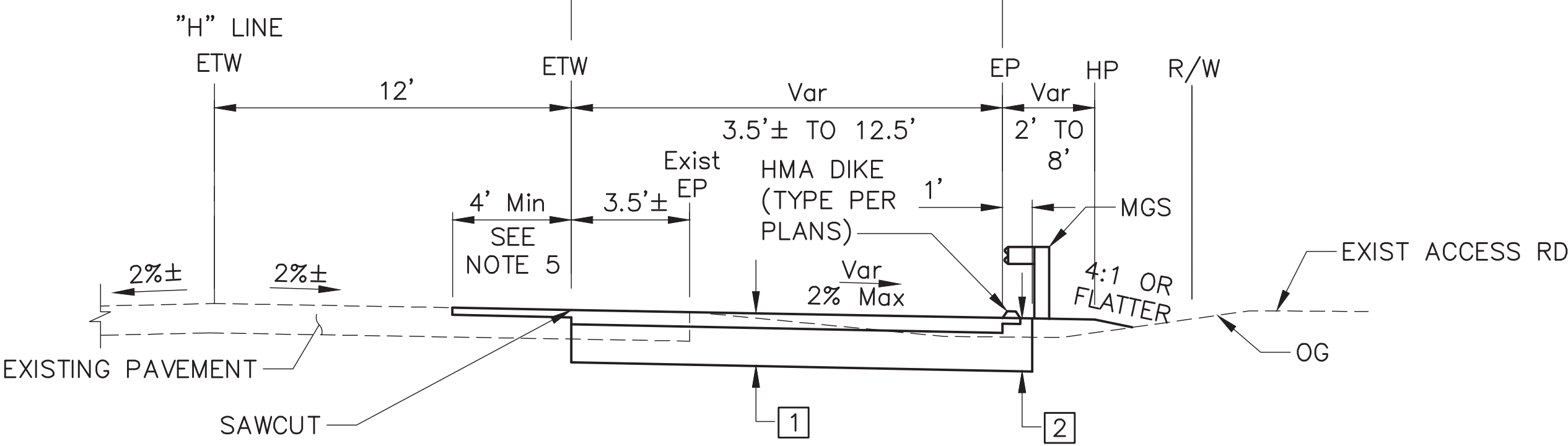
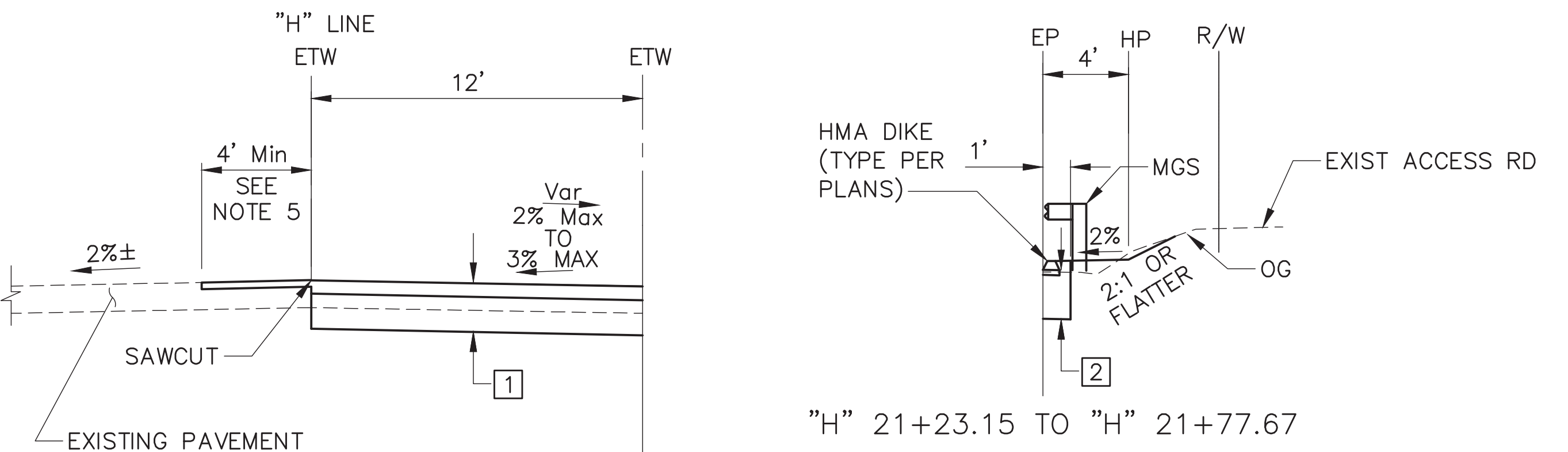
HATCH ROAD DESIGN DESIGNATION

ROAD CLASSIFICATION
AVERAGE DAILY TRAFFIC
DESIGN SPEED
R-VALUE
TRAFFIC INDEX (TI)
TRUCKS

MAJOR COLLECTOR (RURAL)
7000+
55 MPH
23
9.0
3%



GILBERT ROAD



HATCH ROAD



CALL BEFORE YOU DIG

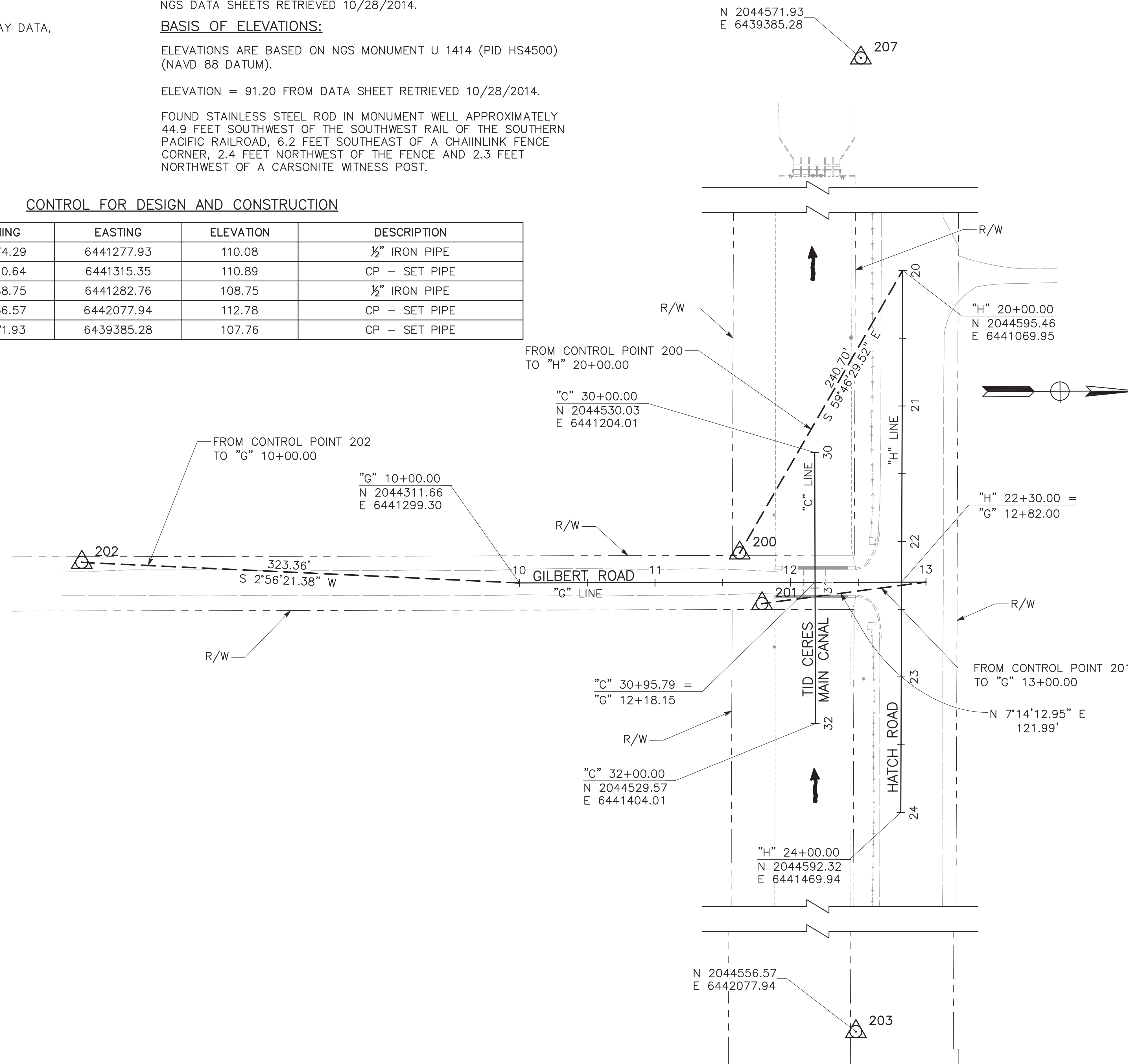
FOR ACCURATE RIGHT-OF-WAY DATA,
CONTACT COUNTY OFFICE.

COORDINATES AND BEARINGS ARE BASED ON THE CALIFORNIA
COORDINATE SYSTEM NAD83. A LINE BETWEEN NGS MONUMENT U
1414 (PID HS4500) AND NGS MONUMENT HPGN D CA 10 GK
(PID AA4251) BEARS NORTH 76°27'11" EAST AS CALCULATED FROM
NGS DATA SHEETS RETRIEVED 10/28/2014.

ELEVATIONS ARE BASED ON NGS MONUMENT U 1414 (PID HS4500)
(NAVD 88 DATUM).

FOUND STAINLESS STEEL ROD IN MONUMENT WELL APPROXIMATELY 44.9 FEET SOUTHWEST OF THE SOUTHWEST RAIL OF THE SOUTHERN PACIFIC RAILROAD, 6.2 FEET SOUTHEAST OF A CHAINLINK FENCE CORNER, 2.4 FEET NORTHWEST OF THE FENCE AND 2.3 FEET NORTHWEST OF A CARSONITE WITNESS POST.

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	2044474.29	6441277.93	110.08	½" IRON PIPE
201	2044490.64	6441315.35	110.89	CP – SET PIPE
202	2043988.75	6441282.76	108.75	½" IRON PIPE
203	2044556.57	6442077.94	112.78	CP – SET PIPE
207	2044571.93	6439385.28	107.76	CP – SET PIPE

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



**GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA**

OB NO 38C-0150
DATE 03/13/2020
DR BY LC
CHK BY KL
SURVEY
CONST.
SCALE 1" = 40'

MEET
NUMBER

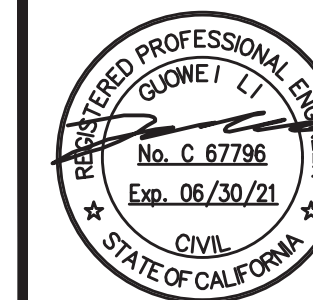
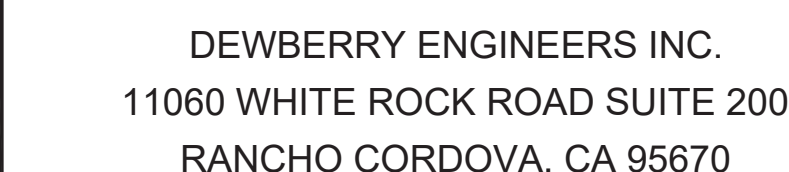
3

F 38 SHEETS



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APPROVED FOR PROJECT CONTROL INFORMATION ONLY

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



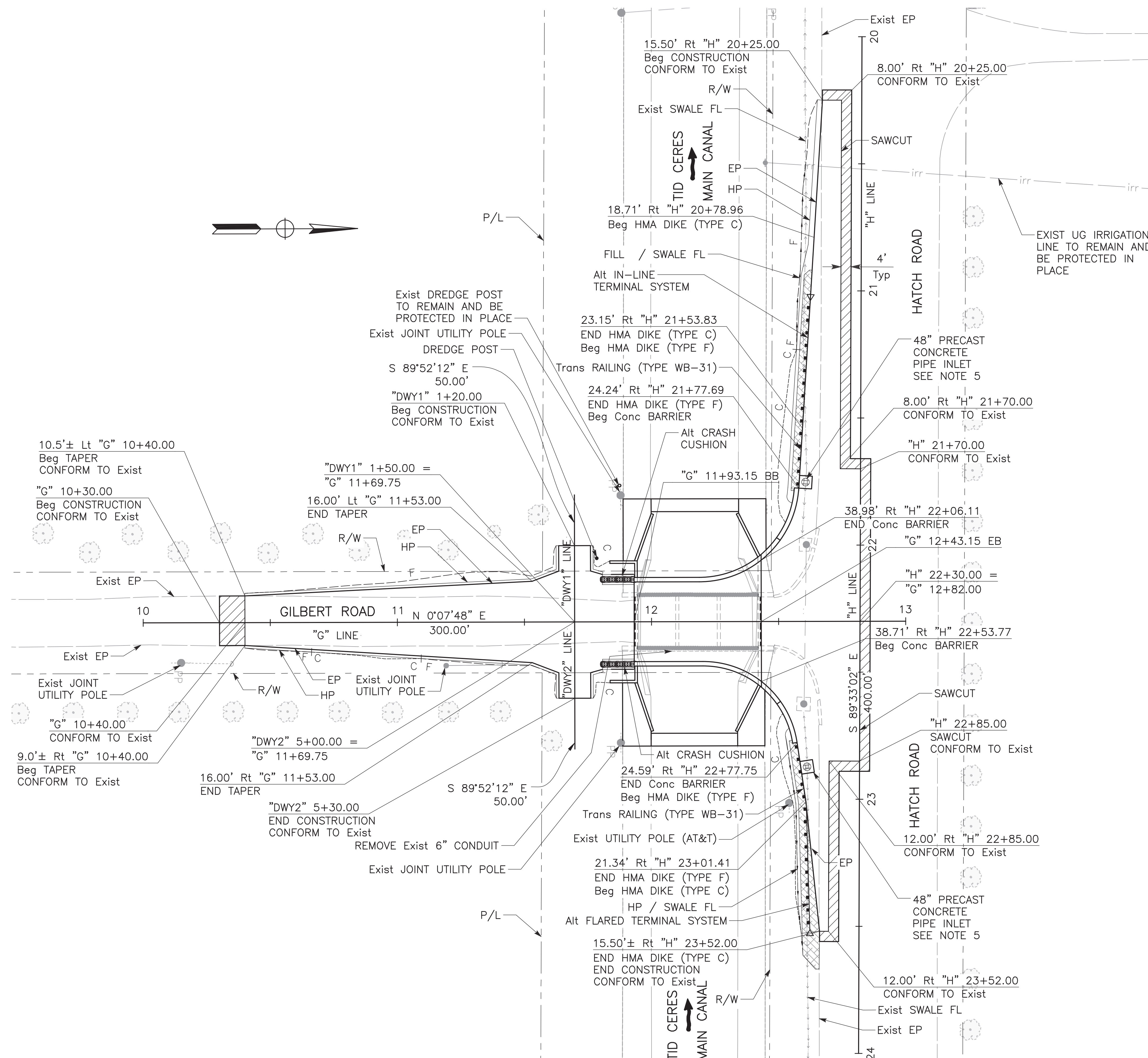
LAYOUT

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	1" = 20'

SHEET
NUMBER

4

OF 38 SHEETS



	CUT
	FILL
	EXISTING RIGHT-OF-WAY OR PROPERTY LINE
	EXISTING SWALE FLOWLINE
	PROPOSED SWALE FLOWLINE
	HMA PAVEMENT CONFORM, SEE CONSTRUCTION DETAILS
	VEGETATION CONTROL (MINOR CONCRETE)

1. FOR ACCURATE RIGHT-OF-WAY DATA, CONTACT COUNTY OFFICE
2. UTILITIES SHOWN ARE APPROXIMATE. VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS. UTILITIES SHALL BE PROTECTED IN PLACE. SEE UTILITY PLAN FOR RELOCATIONS.
3. ALL STATION/OFFSET CALLOUTS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
4. FOR CANAL IMPROVEMENTS, SEE CONSTRUCTION DETAILS.
5. FOR DRAINAGE IMPROVEMENTS, SEE DRAINAGE PLANS (SHEETS 13 TO 15).



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[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



PROFILES

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	AS SHOWN

SHEET
NUMBER

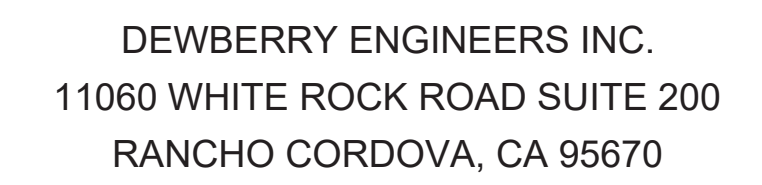
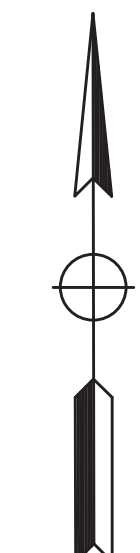
5

SHEETS



1. ELEVATIONS SHOWN ARE TO EDGE OF PAVEMENT
UNLESS OTHERWISE NOTED.
2. FOR ALTERNATIVE CRASH CUSHION SYSTEM
DETAILS AND CANAL DETAILS, SEE
CONSTRUCTION DETAILS.

-----C----- CUT
 ---F--- FILL
 --- - - --- EXISTING RIGHT-OF-WAY OR PROPERTY LINE

[illegible]

STANISLAUS COUNTY
*DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD — MODESTO, CA 95358*



CONSTRUCTION DETAILS NO. 1

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	1" = 5'

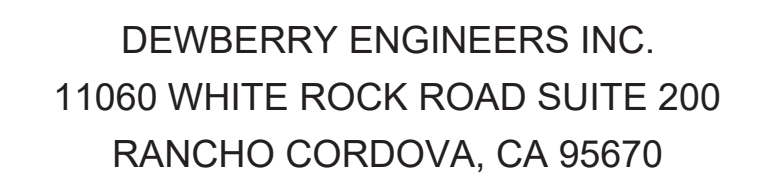
SHEET
NUMBER

6

OF 38 SHEETS

1. ELEVATIONS SHOWN ARE TO EDGE OF PAVEMENT OR SAWCUT LIMIT OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CONTOURS ARE AT 0.25-FT INTERVAL.

CURVE DATA				
No.	R	Δ	T	L
①	39.33'	43°08'26"	15.55'	29.62'
②	37.33'	40°51'18"	13.90'	26.62'

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



CONSTRUCTION DETAILS NO. 2

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CHK BY	KL
SURVEY	
CONST.	
SCALE	1" = 5'

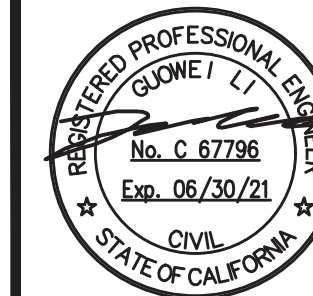
SHEET
NUMBER

7
F 38 SHEETS



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ROADWAY PAVEMENT ELEVATIONS



NO	REVISIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



CONSTRUCTION DETAILS NO. 3

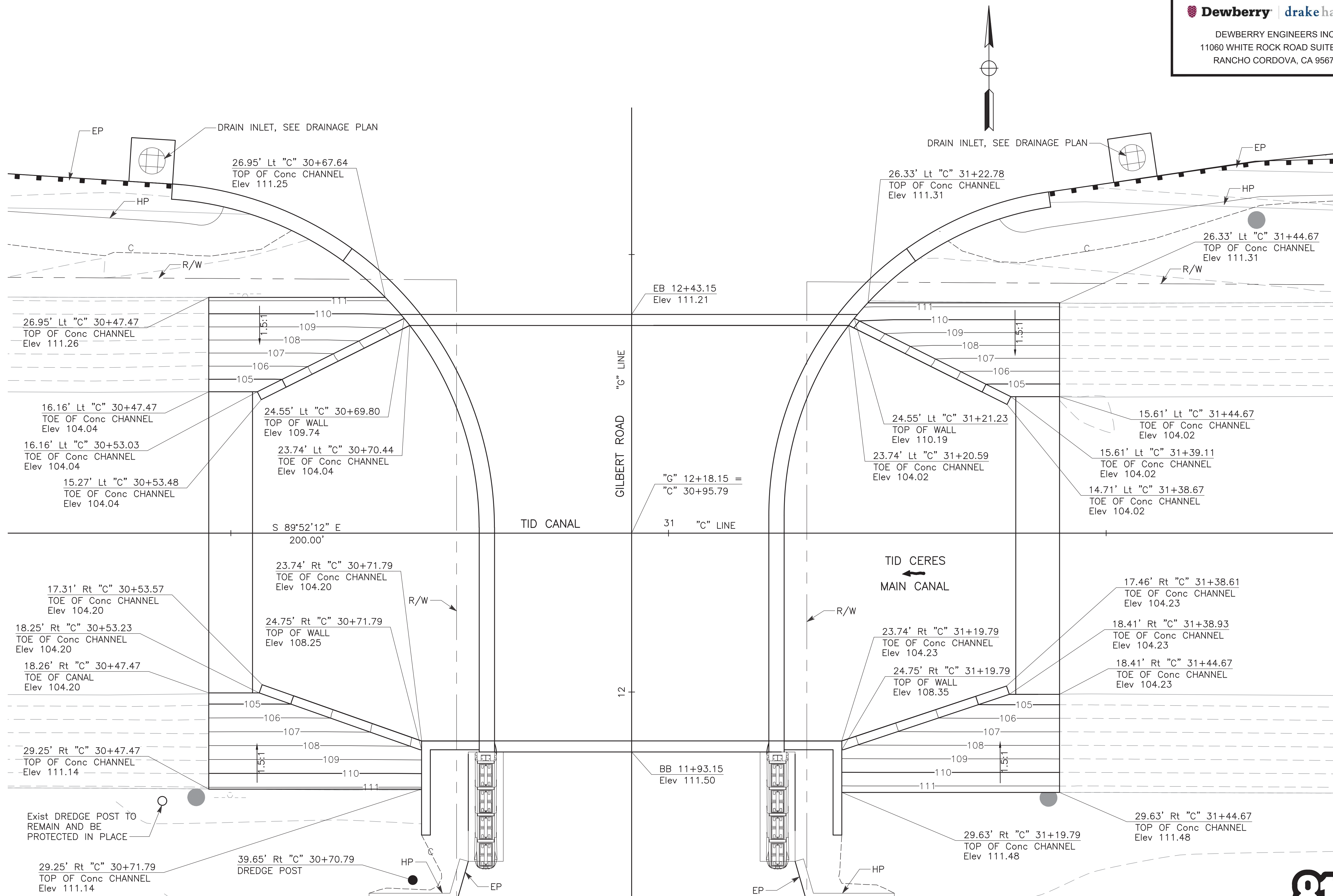
IMPROVEMENT PLANS FOR:
**GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL**
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	1" = 5'

SHEET
NUMBER

8

OF 38 SHEETS



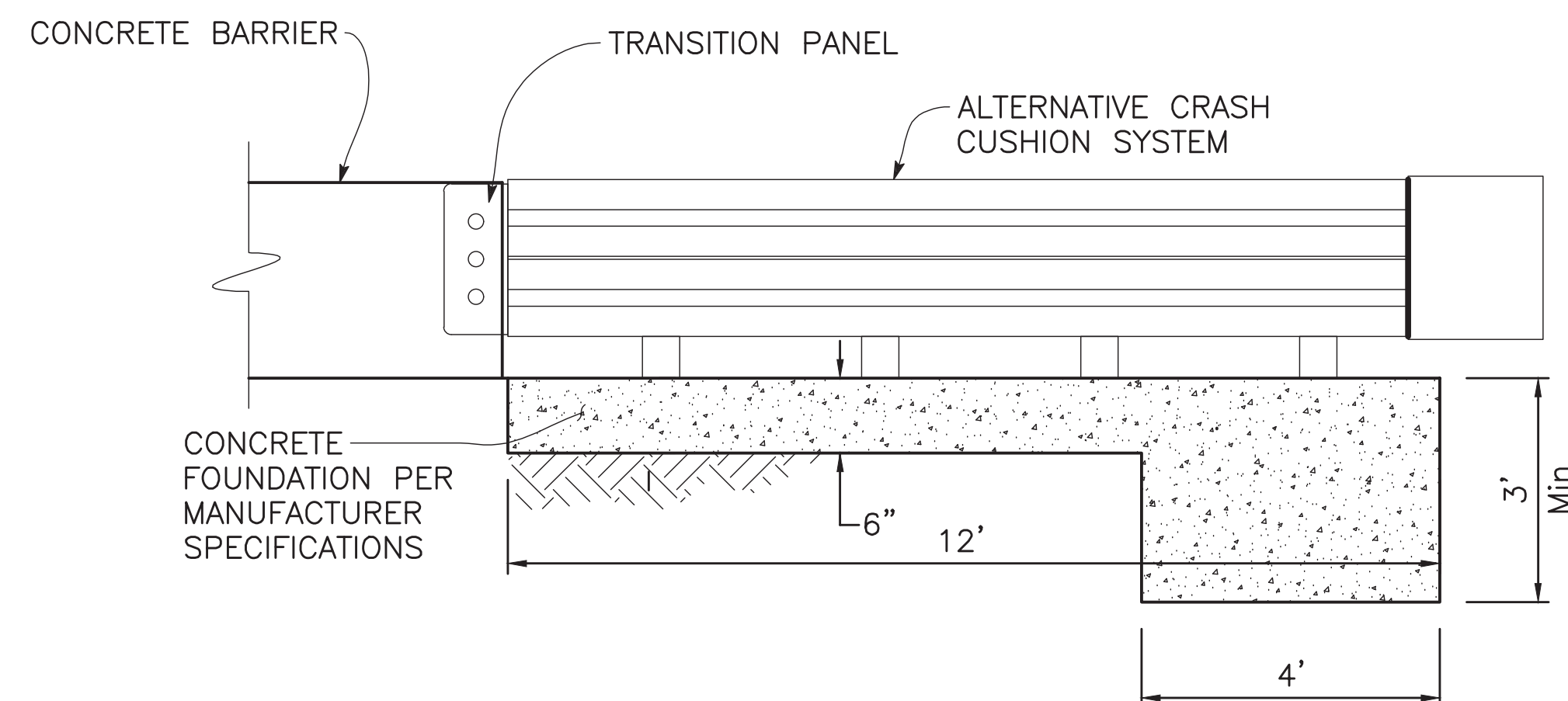
CONCRETE CHANNEL PAVEMENT ELEVATIONS



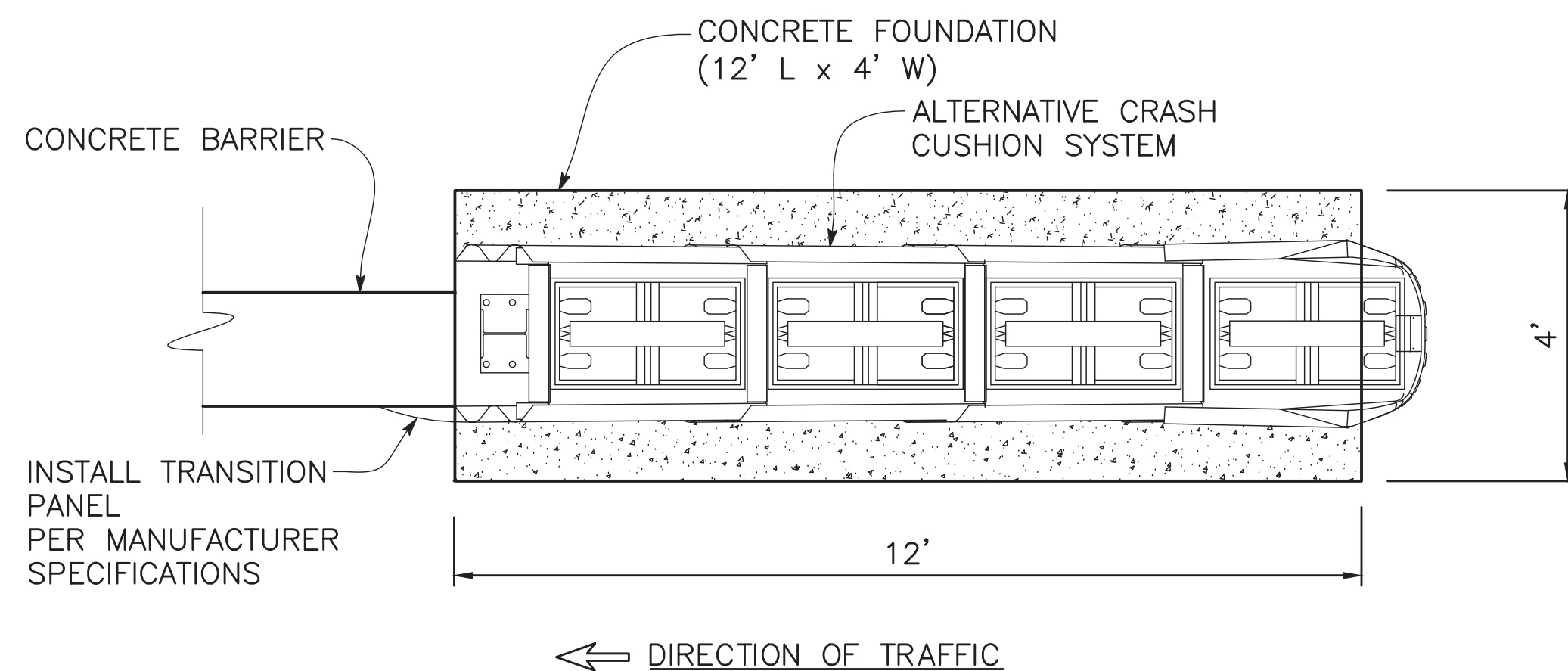
 CONCRETE CRASH CUSHION FOUNDATION

 HMA PAVEMENT CONFORM

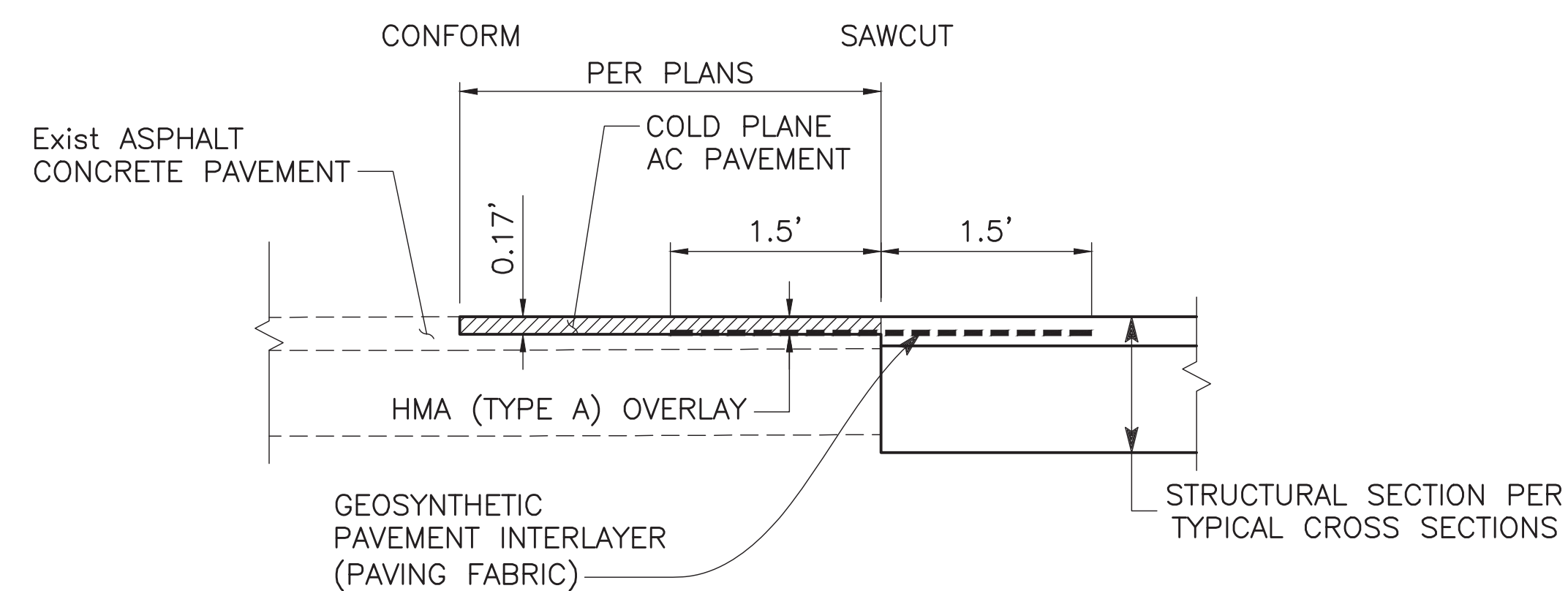
1. ALTERNATIVE CRASH CUSHION SYSTEM SHALL BE QUADGUARD SYSTEM, MODEL QG27024, OR APPROVED EQUAL AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
2. ALTERNATIVE CRASH CUSHION SYSTEM MUST MEET MASH (TL-2) CRITERIA, FOR A DESIGN SPEED OF 35 MPH.



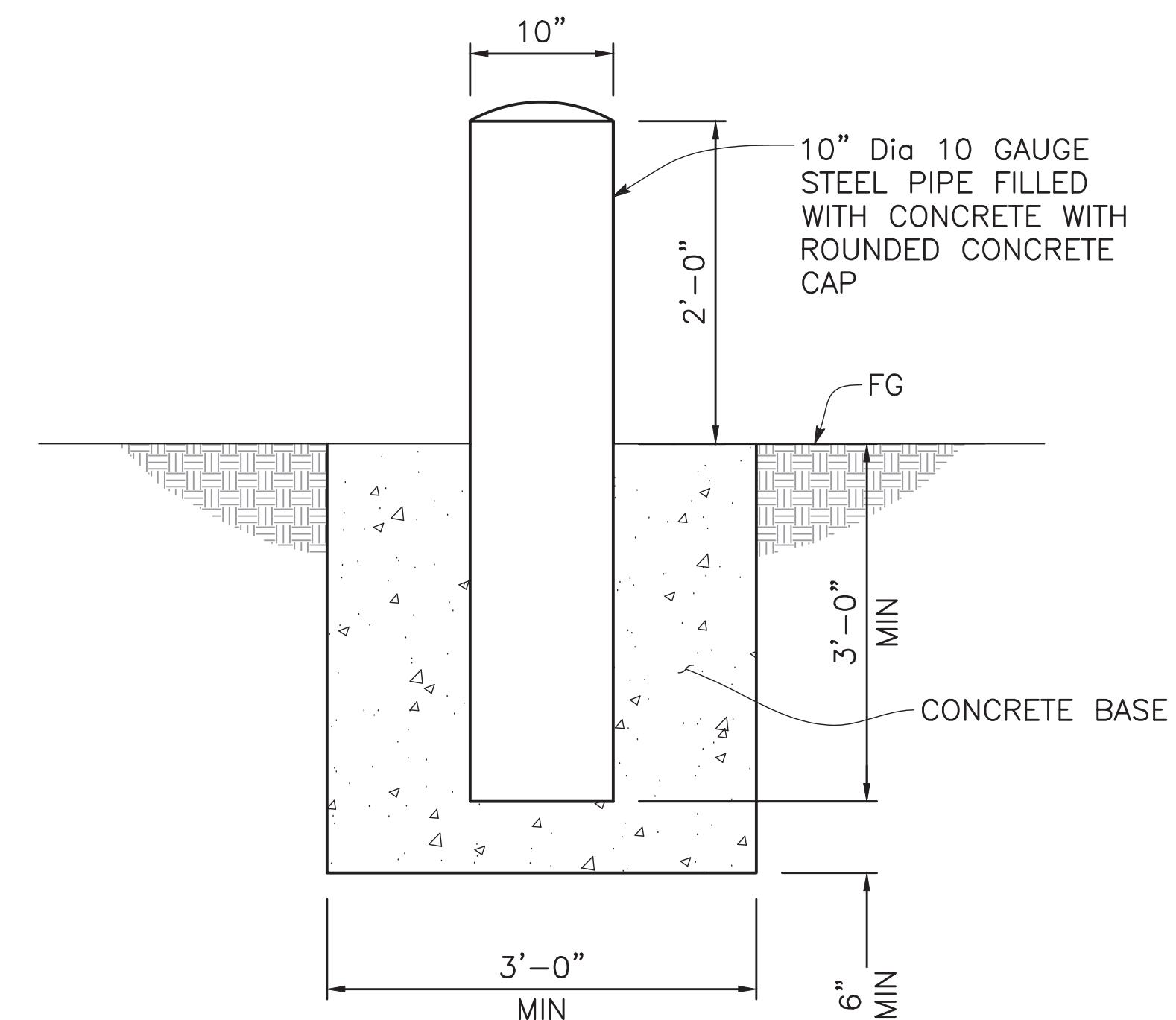
ALTERNATIVE CRASH CUSHION SYSTEM DETAILS – ELEVATION
SCALE: 1/2" = 1'-0"



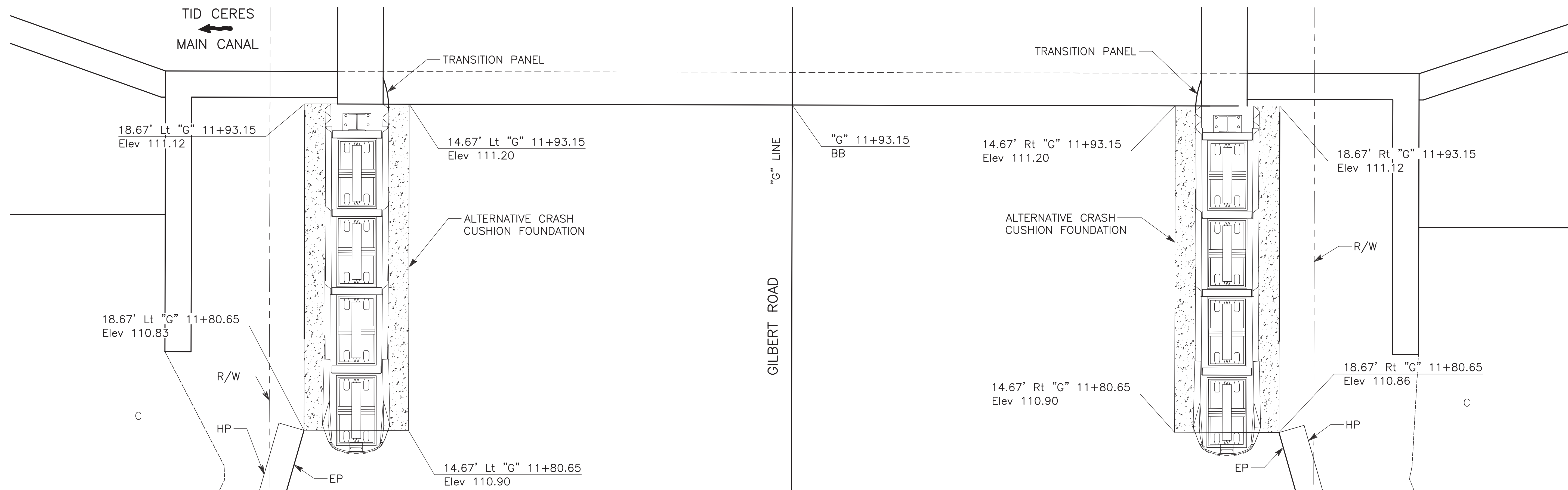
ALTERNATIVE CRASH CUSHION SYSTEM DETAILS – PLAN
SCALE: 1/2" = 1'-0"



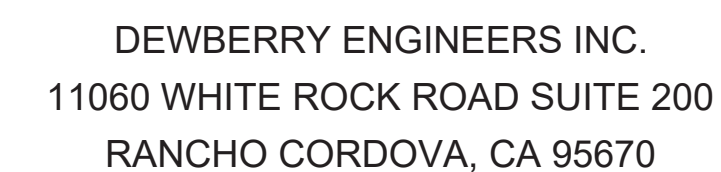
HMA PAVEMENT CONFORM DETAIL
NO SCALE



DREDGE POST DETAIL
SCALE: 1/2" = 1'-0"



ALTERNATIVE CRASH CUSHION SYSTEM DETAILS
SCALE: 1/2" = 1'-0"

[illegible]

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
17116 MORGAN ROAD - MODESTO, CA 95358



CONSTRUCTION DETAILS NO. 4

IMPROVEMENT PLANS FOR:

ROAD BRIDGE REPLACEMENT AND CERES MAIN CANAL

ID CLES MAIN
 CERES CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	AS SHOWN

SHE
NUM

C

OF 38 SHEETS



CALL BEFORE YOU DIG

LEGEND:

- NS-3: PAVING AND GRINDING OPERATIONS
- NS-15: STRUCTURE DEMOLITION/REMOVAL OVER OR ADJACENT TO WATER
- TC-1: TEMPORARY CONSTRUCTION ENTRANCE (TYPE 1)
- SC-4: TEMPORARY CHECK DAM (TYPE 1)

- SC-1: TEMPORARY SILT FENCE
- SC-10: TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)
- WM-8: TEMPORARY CONCRETE WASHOUT
- NS-8: VEHICLE AND EQUIPMENT CLEANING
- NS-9: VEHICLE AND EQUIPMENT FUELING
- NS-10: VEHICLE AND EQUIPMENT MAINTENANCE

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DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



NO	REVISIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



TEMPORARY WATER POLLUTION CONTROL PLAN

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO 38C-0150
DATE 03/13/2020
DR BY LC
CK BY KL
SURVEY
CONST.
SCALE 1" = 20'

SHEET
NUMBER

10

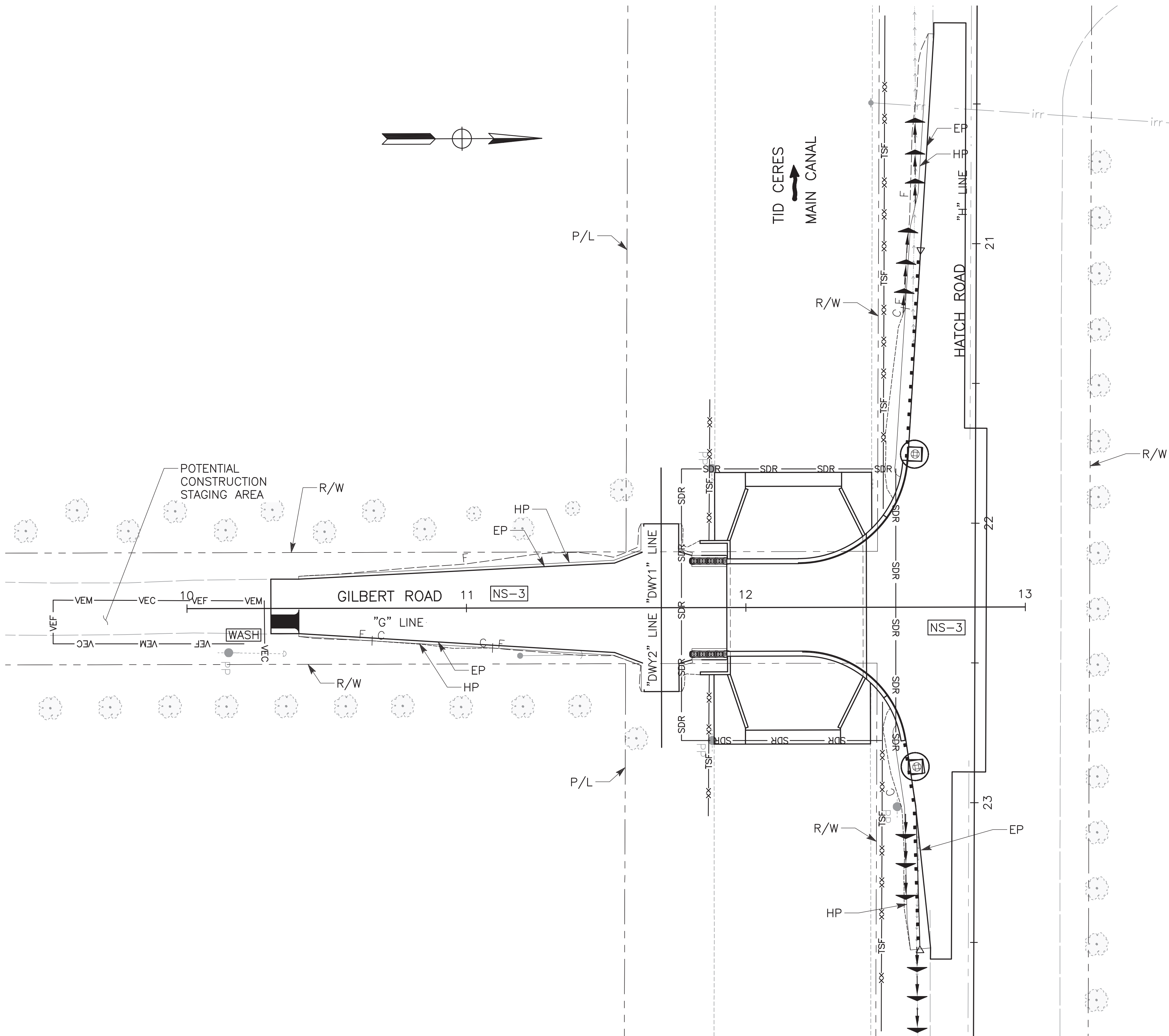
OF 38 SHEETS

WATER POLLUTION CONTROL NOTES:

1. THE INFORMATION ON THESE PLANS IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PROGRAM (WPCP).
2. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
3. INSTALL PERMANENT EROSION CONTROL AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE. SEE EROSION CONTROL PLANS FOR DETAILS.
4. SEE LAYOUTS FOR LOCATION AND LIMITS OF CONSTRUCTION.
5. CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE/EXIT. CONSTRUCT ADDITIONAL ENTRANCES/EXITS AS NEEDED. LIMIT CONSTRUCTION ACTIVITY TO AND FROM THE PROJECT TO THESE STABILIZED CONSTRUCTION ENTRANCES/EXITS.
6. DESIGNATE A STAGING AREA AT THE PROJECT SITE TO BE APPROVED BY THE ENGINEER. BMPs SELECTED FOR THE CONSTRUCTION SITE WILL ALSO BE IMPLEMENTED IN THE STAGING AREA. SPECIAL ATTENTION TO THE FOLLOWING BMPs WILL BE TAKEN AT THE STAGING AREA: TC-1, WE-1, NS-8, NS-9, NS-10, WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-8, AND WM-9. VEHICLE AND EQUIPMENT CLEANING, FUELING AND MAINTENANCE ARE PROHIBITED WITHIN CONSTRUCTION AREA.
7. LOCATE ANY STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER AND DRAINAGE COURSES. ALL STOCKPILES MUST BE BERMED. ADDITIONALLY, COVER STOCKPILES AT ALL TIMES (TO PROTECT THEM FROM THE WIND AND RAIN) WHEN THEY ARE NOT ACTIVELY BEING USED. SPRAY STOCKPILES THAT ARE DESTABILIZED DURING CONSTRUCTION ACTIVITIES WITH WATER AS NEEDED FOR DUST CONTROL.
8. CONSTRUCT OR PLACE AN ABOVE GRADE OR MOBILE CONCRETE WASHOUT AT THE STAGING AREA IF CONCRETE TRUCKS OR CONCRETE EQUIPMENT WILL BE WASHED ON-SITE. LOCATE THE WASHOUT A MINIMUM 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER AND DRAINAGE COURSES. UTILIZE ADDITIONAL WASHOUTS AS NEEDED.
9. UTILIZE A LICENSED SERVICE TO DELIVER AND MAINTAIN PORTABLE RESTROOMS TO THE PROJECT AREA IF NEEDED. LOCATE THE RESTROOMS AWAY FROM DRAINAGE FACILITIES ON LEVEL HARD-PACKED OR PAVED SURFACES.



CALL BEFORE YOU DIG

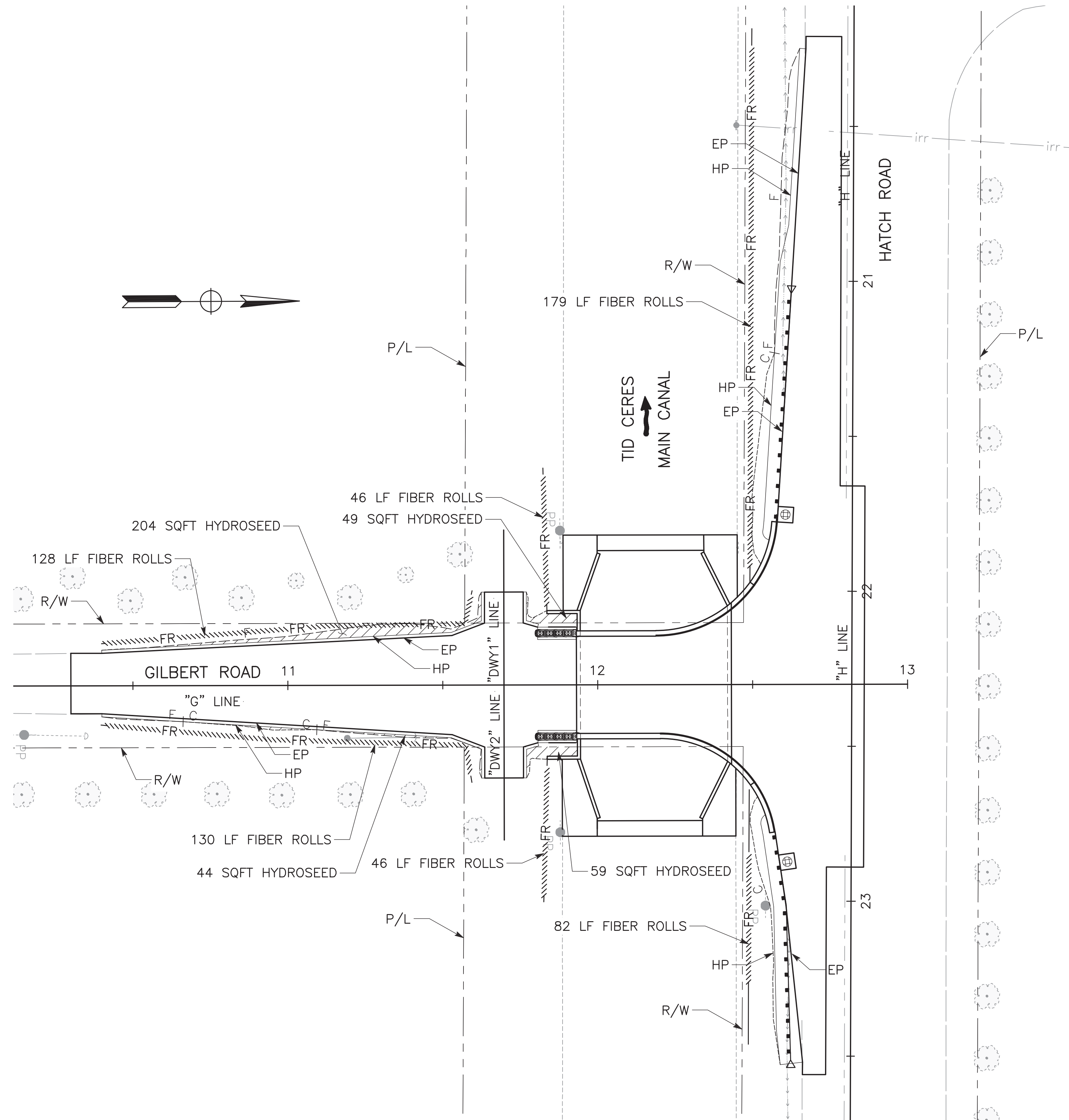


APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

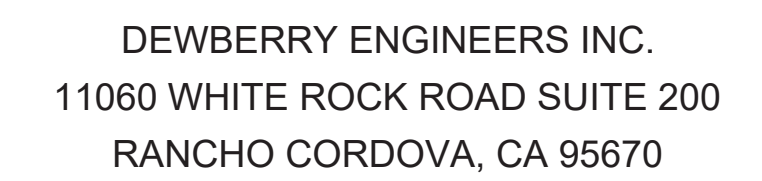
NOTES:

1. DEPLOY LINEAR SEDIMENT CONTROLS (FIBER ROLLS) ON DISTURBED SLOPES. APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE AND AT THE GRADE BREAKS OF THE SLOPE. ADDITIONALLY, USE LINEAR SEDIMENT CONTROLS AS A PERIMETER CONTROL TO CONTAIN SEDIMENT WITHIN THE PROJECT AREA.

EROSION CONTROL QUANTITIES	
FIBER ROLLS	HYDROSEED
LF	SQFT
611	356



APPROVED FOR EROSION CONTROL WORK ONLY

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



EROSION CONTROL

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CHK BY	KL
SURVEY	
CONST.	
SCALE	1" = 20'

SHEET
NUMBER

1

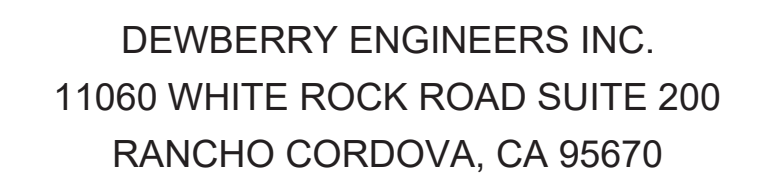
F 38 SHEETS



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1. CONTOUR INTERVALS SHOWN AT 1 FT. INTERVALS.
2. SEE BRIDGE PLANS FOR BRIDGE DECK CONTOUR DETAILS.

_____ C _____ CUT
 _____ F _____ FILL

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD – MODESTO, CA 95358



CONTOUR GRADING

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CHK BY	KL
SURVEY	
CONST.	
SCALE	1" = 20'

SHEET
NUMBER

F 38 SHEETS



CALL BEFORE YOU DIG

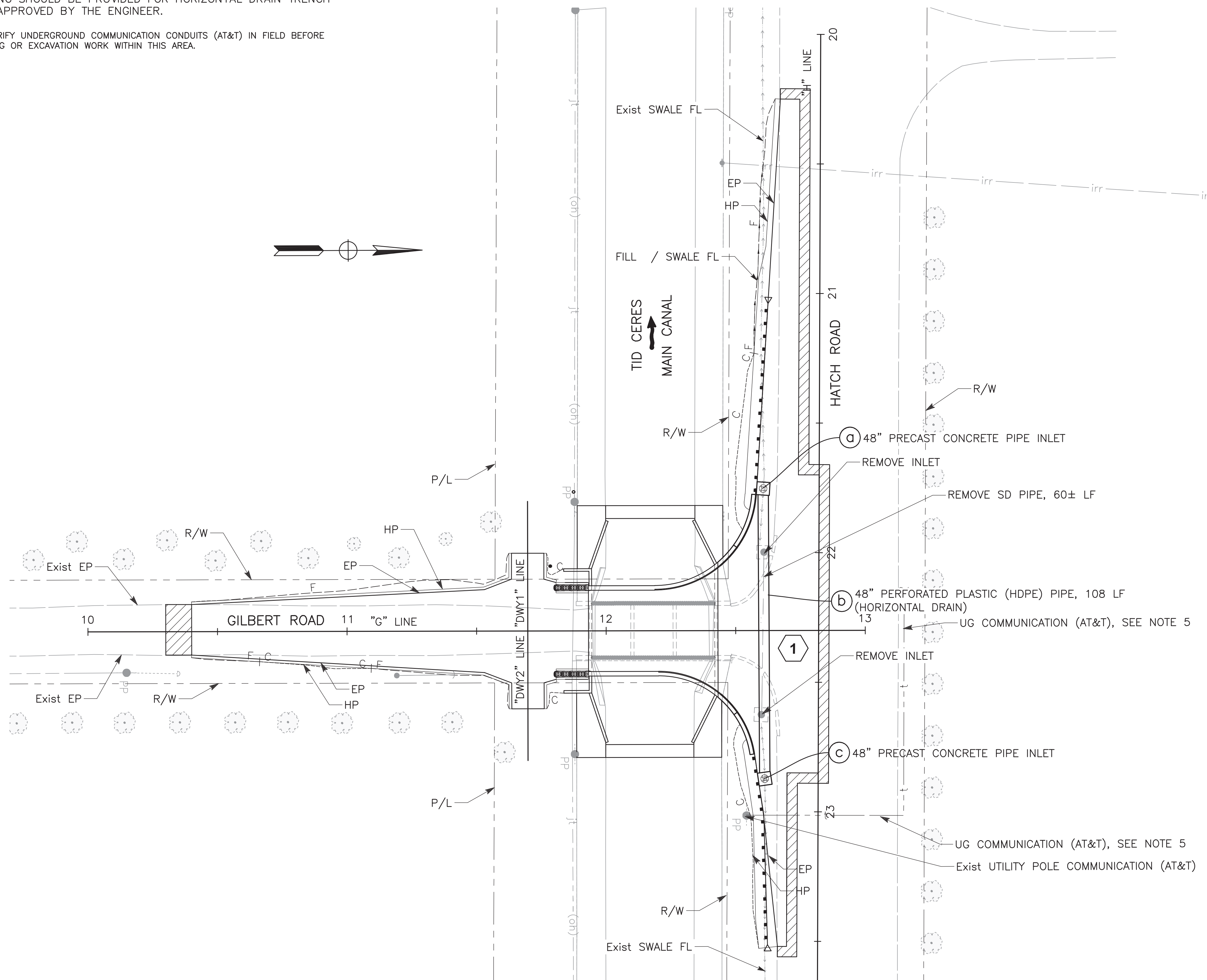
APPROVED FOR CONTOUR GRADING WORK ONLY

NOTES:

1. FOR ACCURATE RIGHT-OF-WAY DATA, CONTACT COUNTY OFFICE.
2. UTILITIES SHOWN ARE FOR REFERENCE ONLY. FOR UTILITIES, SEE UTILITY PLAN.
3. FOR DRAINAGE INLET AND HORIZONTAL DRAIN DETAILS, SEE DRAINAGE DETAILS.
4. TEMPORARY SHORING SHOULD BE PROVIDED FOR HORIZONTAL DRAIN TRENCH EXCAVATION AND APPROVED BY THE ENGINEER.
5. CONTRACTOR SHALL VERIFY UNDERGROUND COMMUNICATION CONDUITS (AT&T) IN FIELD BEFORE EXECUTING ANY DRILLING OR EXCAVATION WORK WITHIN THIS AREA.

LEGEND:

-  DRAINAGE SYSTEM No.
-  DRAINAGE UNIT



APPROVED FOR DRAINAGE WORK ONLY

 **Dewberry** | **drake haglan**

DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



NO	REVISIONS	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



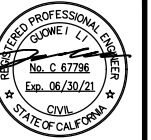
DRAINAGE PLAN

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO. 38C-0150
DATE 03/13/2020
DR BY LC
CK BY KL
SURVEY
CONST.
SCALE 1" = 20'



SHEET NUMBER
13
OF 38 SHEETS

[illegible]

DRAINAGE PROFILES

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CHK BY	KL
SURVEY	
CONST.	
SCALE	NO SCALE

SHEET
NUMBER
14

DRAINAGE SYSTEM No. 1

SCALE: Horiz 1"=10'
Vert 1"=5'



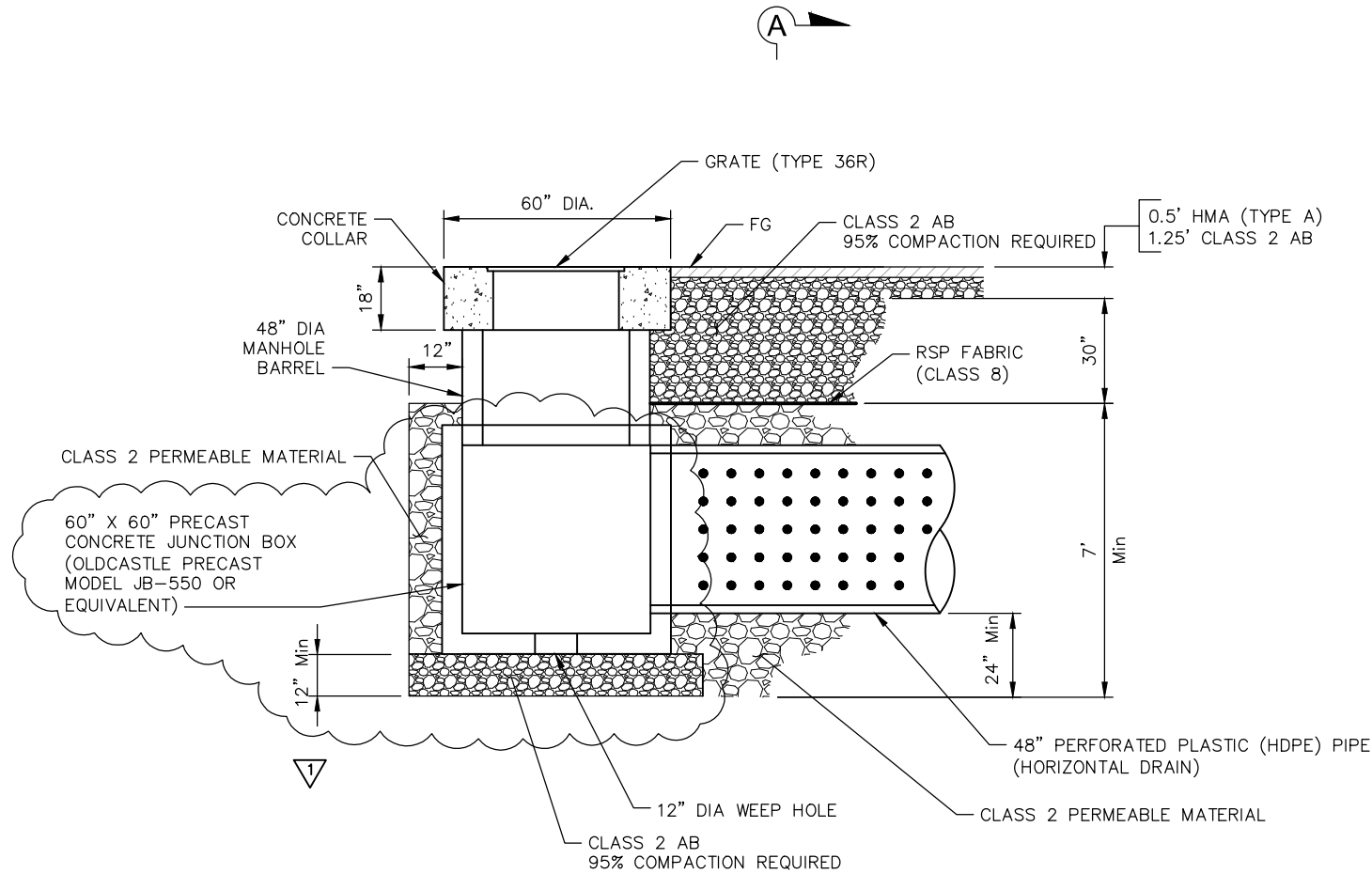
CALL BEFORE YOU DIG

U:\14010 - Gilbert Road Bridge - Stanislaus Co\400 Project Design Files\420 Roadway & Civil\Plans\GB-R-DD.dwg

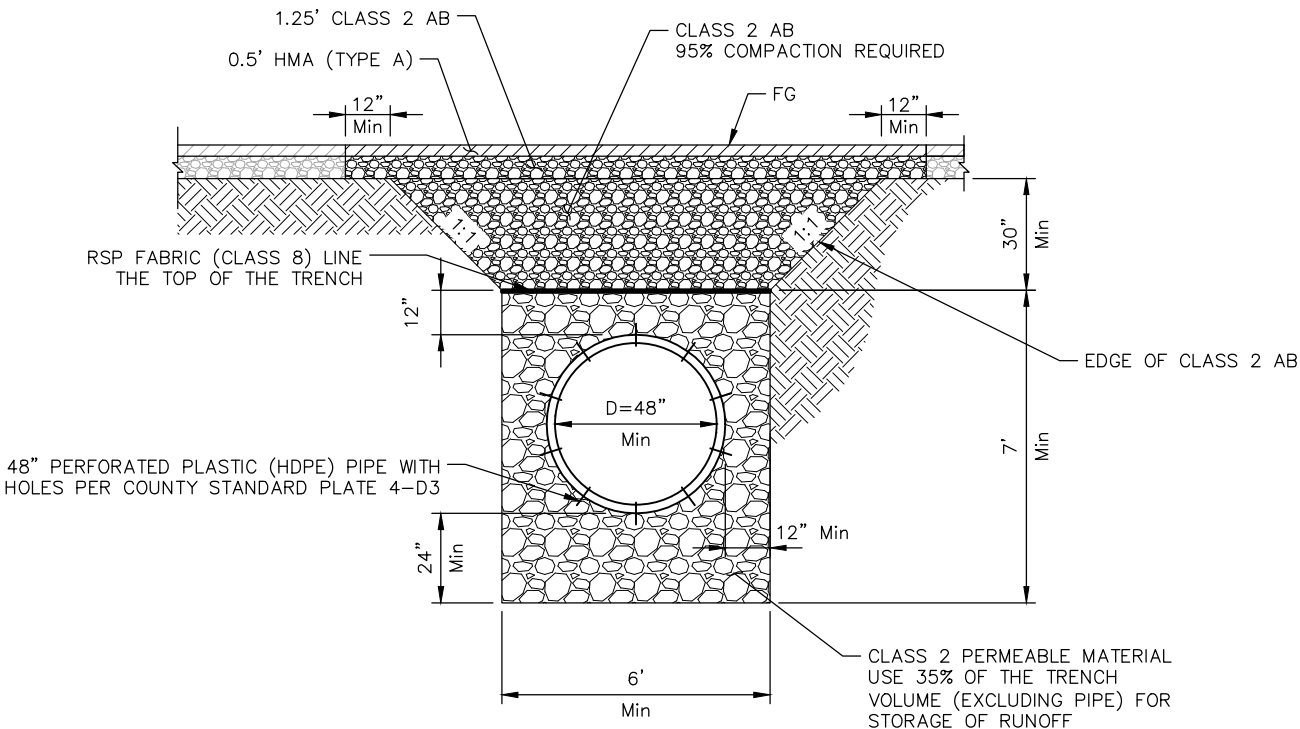


NO	REVISIONS	DATE	APPROVED
1	REVISED DRAIN DETAIL	8-6-20	KL

1 REVISED PER ADDENDUM NO. 1 DATED AUGUST 06, 2020



DRAINAGE INLET AND HORIZONTAL DRAIN DETAIL
NO SCALE



SECTION A-A
NO SCALE

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



DRAINAGE DETAILS
IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO 38C-0150
DATE 03/13/2020
DR BY LC
OK BY KL
SURVEY
CONST.
SCALE NO SCALE

SHEET NUMBER
15
OF 38 SHEETS



1. FOR ACCURATE RIGHT-OF-WAY DATA, CONTACT COUNTY OFFICE.
2. EXISTING UTILITIES TO BE PROTECTED IN PLACE.
3. UTILITY LOCATIONS SHOWN ARE APPROXIMATE. VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. FOR ACCURATE UTILITY MAPS AND RELOCATION PLANS, CONTACT INDIVIDUAL UTILITY COMPANY.
4. FOR DRAINAGE SYSTEM, SEE DRAINAGE PLAN, PROFILE AND DETAILS.
5. CONTRACTOR SHALL VERIFY UNDERGROUND COMMUNICATION CONDUITS (AT&T) IN FIELD BEFORE EXECUTING ANY DRILLING OR EXCAVATION WORK WITHIN THIS AREA.
6. UTILITY OWNERSHIP:

---jt------(oh)---	JOINT OVERHEAD - EXISTING
-----e------(oh)---	OVERHEAD POWER - EXISTING
---t------(oh)---	OVERHEAD COMMUNICATION - EXISTING
---t-----t---	UG COMMUNICATION - EXISTING
---sd-----sd---	STORM DRAIN - EXISTING
-----irr-----	IRRIGATION PIPE- EXISTING

This engineering plan view illustrates the proposed bridge structure over the intersection of Gilbert Road and Hatch Road. The bridge is shown with two spans, each 22 feet wide, and a central pier. The right-of-way (R/W) for both roads is clearly defined. Various utility lines are shown, including overhead power (TID), fiber optic (TID), and communication (AT&T) lines. Existing utility poles and communication lines are marked for protection in place. A proposed bridge structure is shown crossing the intersection. The plan also includes labels for the TID CERES MAIN CANAL, IRRIGATION PIPELINE (APN 018-062-002), and various utility poles and communication lines. The plan is oriented with a north arrow pointing towards the top left.

Key features and labels include:

- ROADS:** GILBERT ROAD, HATCH ROAD.
- BRIDGE:** PROPOSED BRIDGE.
- UTILITIES:** JOINT OVERHEAD POWER (TID), FIBER OPTIC (TID), EXIST JOINT UTILITY POLE (PROTECT IN PLACE), DREDGE POST (PROTECT IN PLACE), UTILITY POLE DOWNGUY, JOINT OVERHEAD POWER (TID) COMMUNICATION (AT&T), EXIST JOINT UTILITY POLE (PROTECT IN PLACE), OVERHEAD COMMUNICATION (AT&T), UG COMMUNICATION (AT&T), UG COMMUNICATION (AT&T), SEE NOTE 5 (PROTECT IN PLACE), EXIST UTILITY POLE COMMUNICATION (AT&T) (PROTECT IN PLACE).
- RIGHT-OF-WAY (R/W):** Indicated by dashed lines.
- OTHER FEATURES:** TID CERES MAIN CANAL, IRRIGATION PIPELINE (APN 018-062-002), "G" LINE, "DWY1" LINE, "DWY2" LINE, "H" LINE.



DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



UTILITY PLAN

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO 38C-0150
DATE 03/13/2020
R BY LC
K BY KL
URVEY _____
ONST. _____
CALE 1" = 20'

SHEET
NUMBER

16

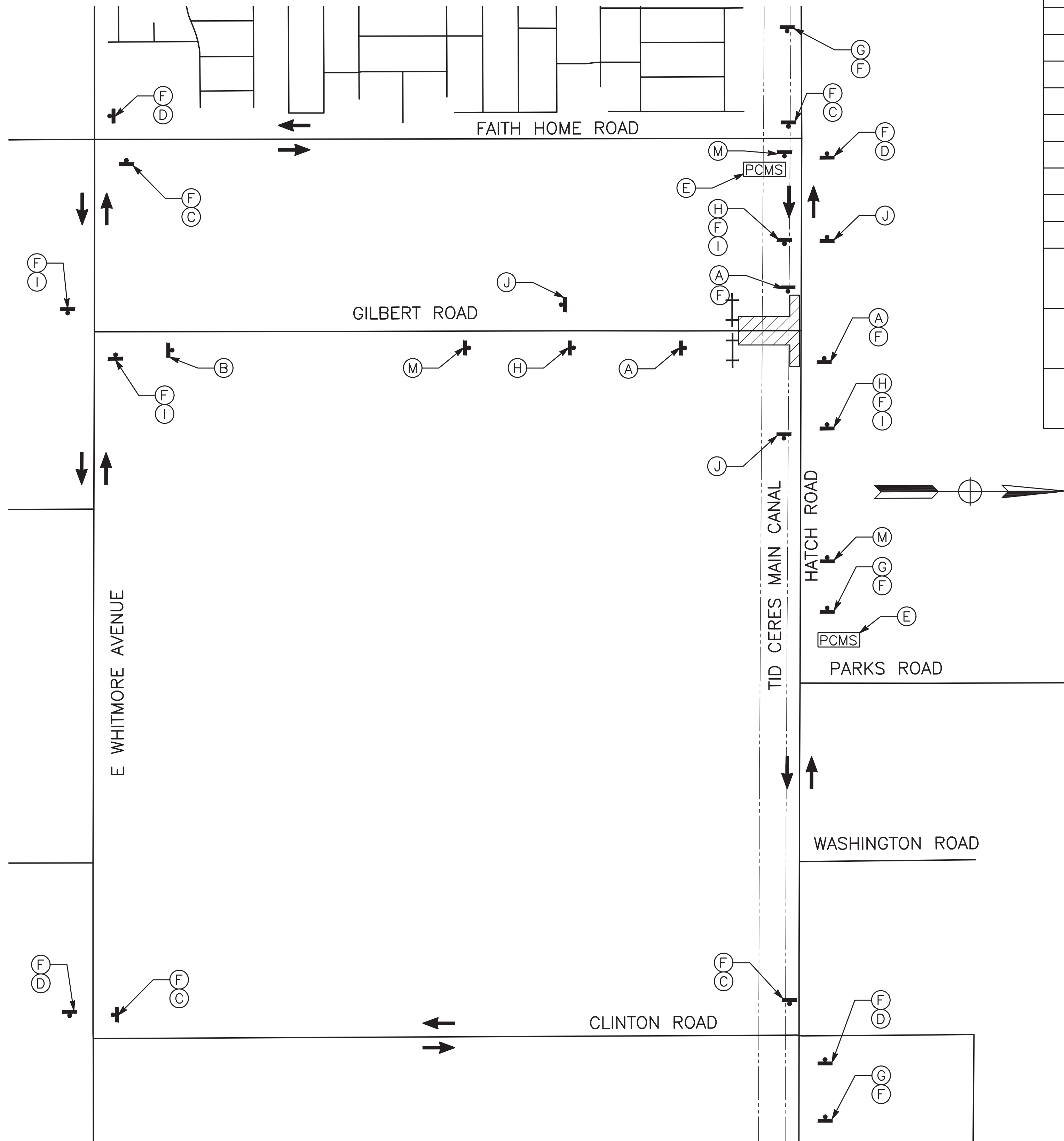
F 38 SHEETS

NOTES:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER. LOCATION OF SIGNS SHOWN IS APPROXIMATE.
2. ALL CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE 2014 CALIFORNIA MUTCD AND THE 2015 CALTRANS STANDARD PLANS.
3. ALL CONSTRUCTION AREA SIGNS MUST BE EQUIPPED WITH FLASHING WARNING LIGHTS.
4. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION.
5. MAINTAIN ACCESS FOR EMERGENCY VEHICLES, EXCEPT FOR ACROSS BRIDGE.

LEGEND:

- (X) SIGN LETTER
- ├ CONSTRUCTION AREA SIGN (ONE POST)
- ++ TYPE III BARRICADE
- ➔ DIRECTION OF DETOUR TRAFFIC
- ▨ CONSTRUCTION AREA
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF SIGNS	REMARKS
(A)	R11-2	48" x 30"	BRIDGE CLOSED	3	
(B)	R11-4	60" x 30"	ROAD CLOSED TO THRU TRAFFIC	1	
(C)	M4-9R	30" x 24"	DETOUR (RIGHT ARROW)	4	
(D)	M4-9L	30" x 24"	DETOUR (LEFT ARROW)	4	
(E)	PCMS	-	PORTABLE CHANGEABLE MESSAGE SIGN	2	
(F)	D3-1	24" x 8"	GILBERT ROAD	17	
(G)	W20-2	36" x 36"	DETOUR AHEAD	3	
(H)	W20-3	36" x 36"	ROAD WORK AHEAD	3	
(I)	SC3(CA)	36" X 12"	DETOUR (UP ARROW)	4	
(J)	G20-2	36" X 18"	END ROAD WORK	3	
(K)	W1-4 (L)	24" X 24"	REVERSE CURVE	1	SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING SHEETS
(L)	W1-4 (R)	24" X 24"	REVERSE CURVE	1	SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING SHEETS
(M)	-	96" X 60"	FUNDING INFORMATION	3	SEE CONSTRUCTION FUNDING SIGN SHEET

Dewberry | **drake haglan**

DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



NO	REVISIONS	DATE	APPROVED
	DESCRIPTIONS		

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

CONSTRUCTION AREA SIGNS

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	NO SCALE

SHEET NUMBER	17
OF	38 SHEETS

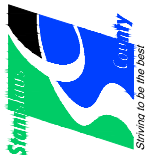


U:\14010 - Gilbert Road Bridge - Stanislaus Co\400 Project Design Files\420 Roadway & Civil\Plans\GB-R-CS1.dwg



NO.	DESCRIPTIONS	DATE	APPROVED
1	REVISED SIGN DETAIL	8-6-20	KL

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

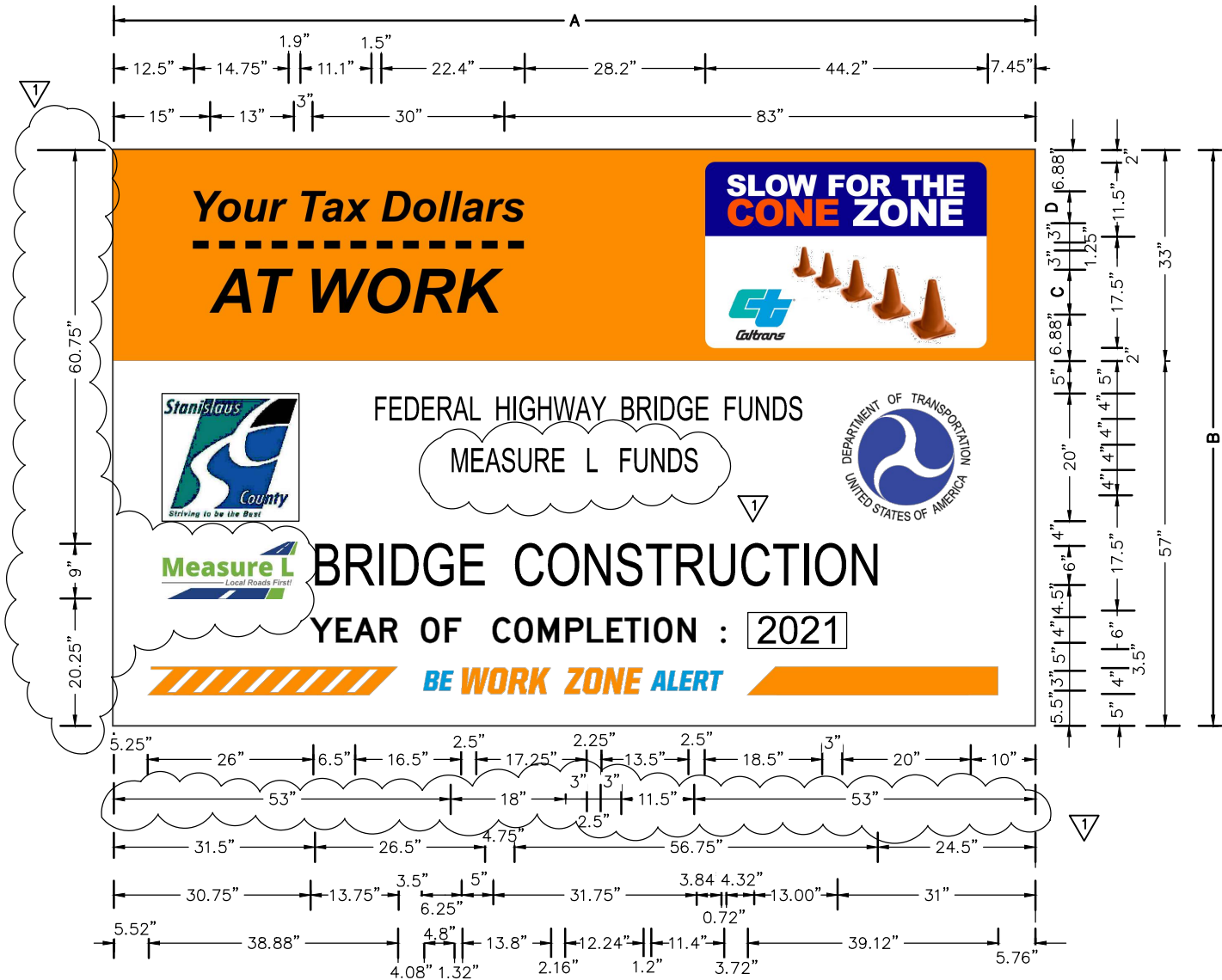


CONSTRUCTION FUNDING SIGN

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
OK BY	KL
SURVEY	
CONST.	
SCALE	NO SCALE

SHEET NUMBER	18
OF 38 SHEETS	



1 REVISED PER ADDENDUM NO. 1 DATED AUGUST 06, 2020

NOTES:

1. PROVIDED DIMENSIONS ARE FOR THE 144"x90" SIGN. For the 96"x60" SIGN, CALCULATE EACH DIMENSION BY 2/3 (0.667).

C47B (CA)

ENGLISH UNITS

A	B	C	D
144	90	7	5
96	60	5	3

C47B(CA) SIGN DETAIL

NO SCALE



CALL BEFORE YOU DIG

NOTES:

1. SEE LAYOUTS FOR ALIGNMENT DATA NOT SHOWN.

2. MAINTAIN CANAL ROAD AND DRIVEWAY ACCESS.

3. ALL STATION REFERENCES TO TEMPORARY RAILING (TYPE K) REFER TO THE RAILING CENTERLINE.

4. OBTAIN APPROVAL FROM THE ENGINEER FOR ALL INGRESS/EGRESS LOCATIONS TO CONSTRUCTION AREAS.
5. MAKE NECESSARY ADJUSTMENTS IF NEEDED AND AS DIRECTED BY THE ENGINEER.

6. FOR CONSTRUCTION AREA SIGNS NOT SHOWN HERE, SEE "CONSTRUCTION AREA SIGNS" SHEET.

7. ALL SIGNS SHALL HAVE TYPE B HIGH-INTENSITY FLASHING WARNING LIGHTS.

8. FOR SECTION A-A DETAILS, SEE SHEET 19.

9. ALL CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE 2014 CALIFORNIA MUTCD AND THE 2015 CALTRANS STANDARD PLANS.

LEGEND:

- STRUCTURE WORK
- ROADWAY WORK
- BRIDGE REMOVAL
- TEMPORARY RAILING (TYPE K)
- TEMPORARY CRASH CUSHION (ABSORB 350 OR EQUIVALENT)
- TYPE III BARRICADE WITH WARNING LIGHT MOUNTED ON TOP
- DIRECTION OF TRAFFIC
- CHANNELIZER (SURFACE MOUNTED), SPACING 25' Max, CENTER TO CENTER
- CONSTRUCTION AREA SIGN (ONE POST)
- TEMPORARY OBJECT MARKER (TYPE P)

STAGE 1 TRAFFIC HANDLING NOTES

1. MAINTAIN CANAL ROAD AND DRIVEWAY ACCESS DURING CONSTRUCTION.

STAGE 1 CONSTRUCTION NOTES

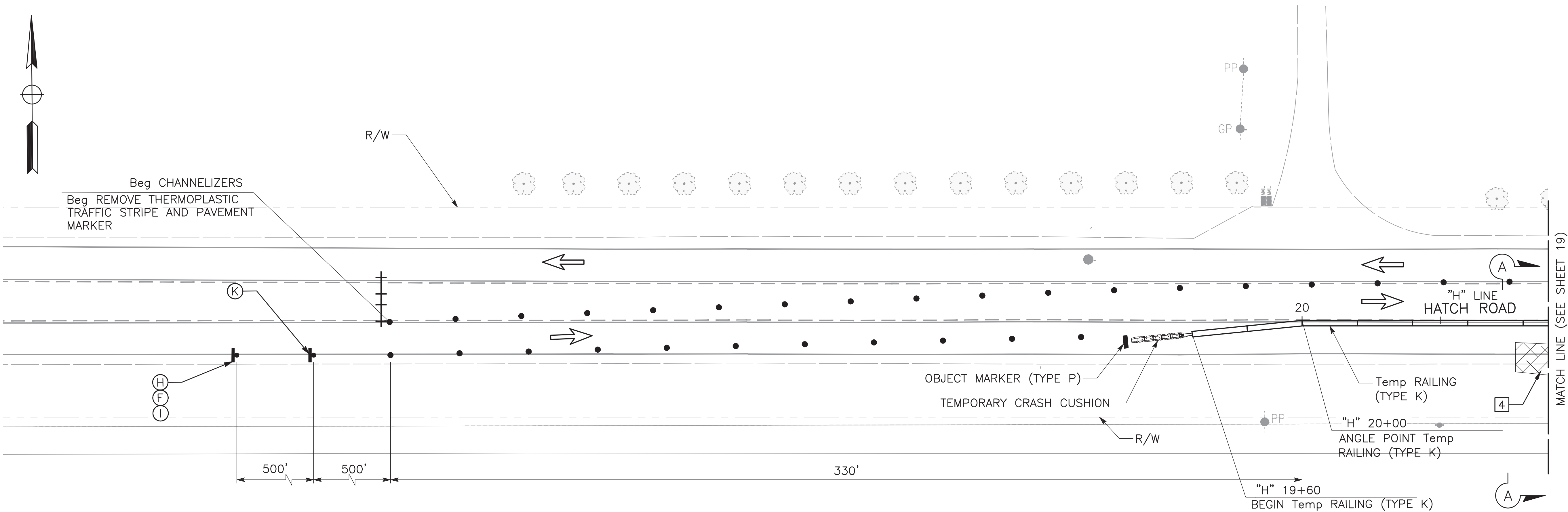
- 1

REMOVE EXISTING BRIDGE.
- 2

CONSTRUCT NEW BRIDGE AND CONCRETE CHANNEL.
- 3

CONSTRUCT SOUTHERN APPROACH OF ROADWAY ON GILBERT ROAD.
- 4

CONSTRUCT DRAINAGE INLETS AND HORIZONTAL DRAIN. TEMPORARY SHORING SHOULD BE PROVIDED FOR HORIZONTAL DRAIN TRENCH EXCAVATION AND APPROVED BY THE ENGINEER.



STAGE 1 LAYOUT

Dewberry | **drake haglan**

DEWBERRY ENGINEERS INC.
11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



NO	REVISIONS	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY

DEPARTMENT OF PUBLIC WORKS

ENGINEERING AND OPERATIONS DIVISION

1716 MORGAN ROAD - MODESTO, CA 95358

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

IMPROVEMENT PLANS FOR:

GILBERT ROAD BRIDGE REPLACEMENT

OVER TID CERES MAIN CANAL

CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	LC
CK BY	KL
SURVEY	
CONST.	
SCALE	1" = 20'

SHEET NUMBER	19
OF 38 SHEETS	



STAGE 1 TRAFFIC HANDLING NOTES

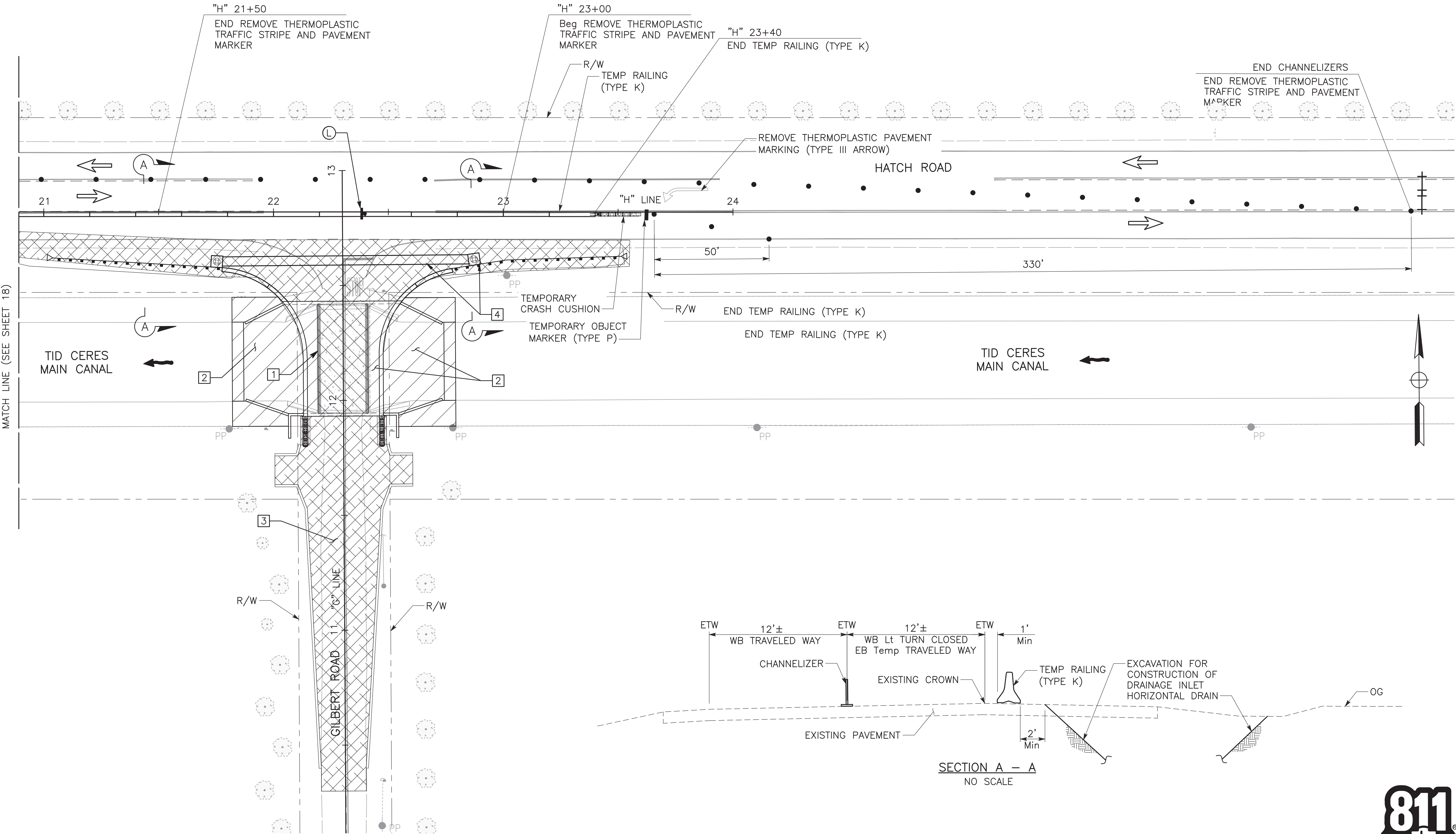
1. MAINTAIN CANAL ROAD AND DRIVEWAY ACCESS DURING CONSTRUCTION.

STAGE 1 CONSTRUCTION NOTES

- 1 REMOVE EXISTING BRIDGE.
2 CONSTRUCT NEW BRIDGE AND CONCRETE CHANNEL.
3 CONSTRUCT SOUTHERN APPROACH OF ROADWAY ON GILBERT ROAD.
4 CONSTRUCT DRAINAGE INLETS AND HORIZONTAL DRAIN. TEMPORARY SHORING SHOULD BE PROVIDED FOR HORIZONTAL DRAIN TRENCH EXCAVATION AND APPROVED BY THE ENGINEER.

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11060 WHITE ROCK ROAD SUITE 200
RANCHO CORDOVA, CA 95670



STAGE 1 LAYOUT

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY



STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358



STAGE CONSTRUCTION AND TRAFFIC HANDLING
PLAN
IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO 38C-0150
DATE 03/13/2020
DR BY LC
CK BY KL
SURVEY
CONST.
SCALE 1" = 20'

SHEET
NUMBER
20
OF 38 SHEETS

1. FOR SECTION B-B DETAILS, SEE SHEET 22.
2. PLACE THERMOPLASTIC TRAFFIC STRIPE DETAILS AND PAVEMENT MARKING AFTER STAGE 2 CONSTRUCTION IS COMPLETED.

1. MAINTAIN CANAL ROAD AND DRIVEWAY ACCESS DURING CONSTRUCTION.

1 CONSTRUCT NORTHERN APPROACH OF ROADWAY ON GILBERT ROAD AND HATCH ROAD.

[illegible]

Stanislaus County
Striving to be the best

**GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA**

MEET
NUMBER

21

F 38 SHEETS



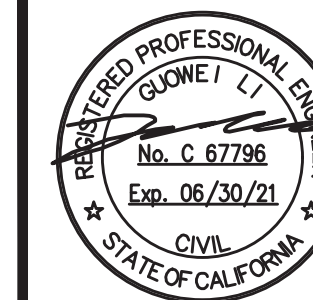
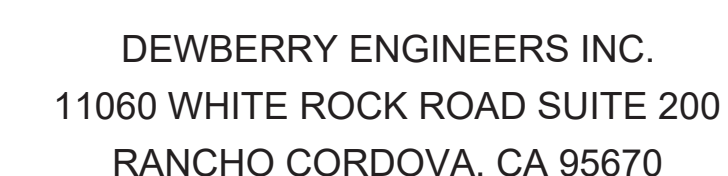
CALL BEFORE YOU DIG

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

1. PLACE THERMOPLASTIC TRAFFIC STRIPE DETAILS AND PAVEMENT MARKING AFTER STAGE 2 CONSTRUCTION IS COMPLETED.

1. MAINTAIN CANAL ROAD AND DRIVEWAY ACCESS DURING CONSTRUCTION.

- 1 CONSTRUCT NORTHERN APPROACH OF ROADWAY ON GILBERT ROAD AND HATCH ROAD.
- 2 COLD PLANE AC AND OVERLAY HMA PAVEMENT WITH SHORT PERIOD OF ONE-WAY REVERSIBLE TRAFFIC CONTROL PER CALTRANS STANDARD PLAN T13.

[illegible]

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
17716 MORGAN ROAD – MODESTO, CA 95358



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

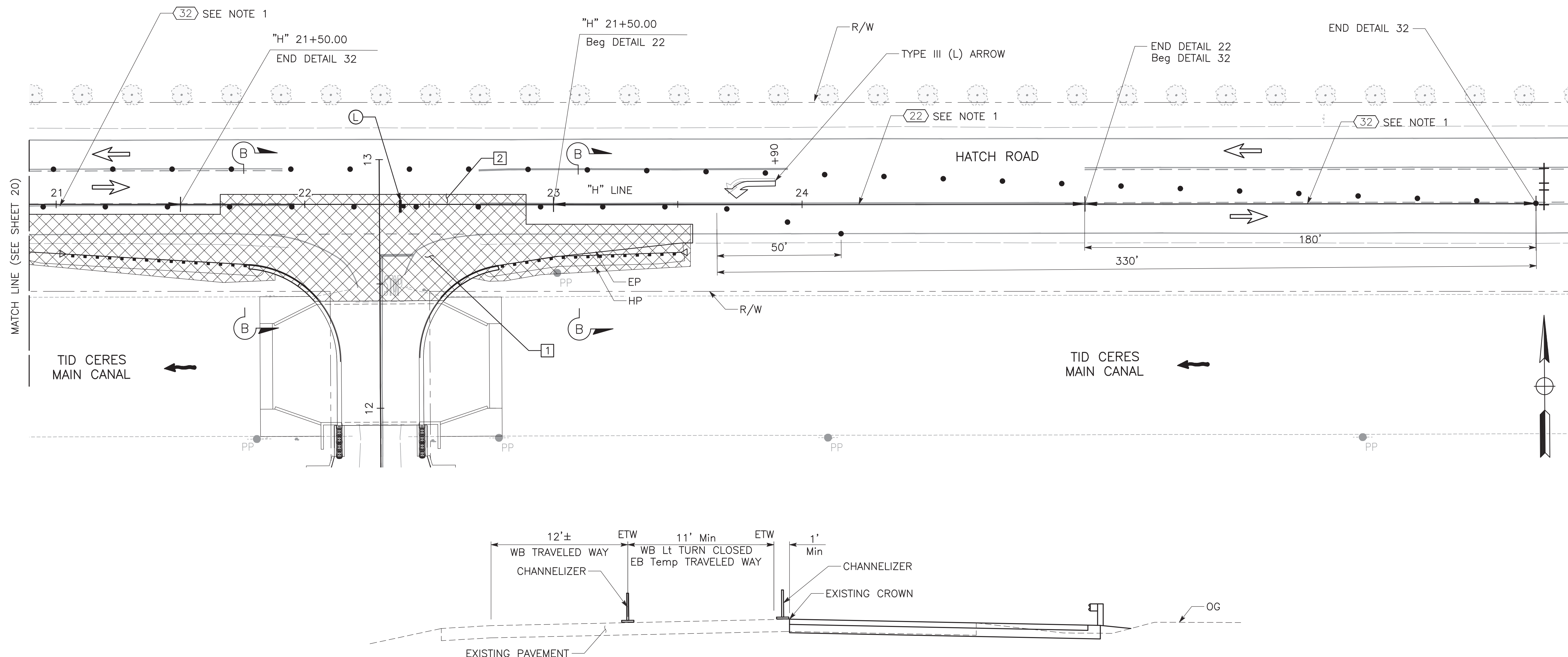
PLAN
IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO 38C-0150
DATE 03/13/2020
DR BY LC
CK BY KL
SURVEY
CONST.
SCALE 1" = 20'

SHEET
NUMBER

22

OF 38 SHEETS



SECTION B-B
NO SACLE

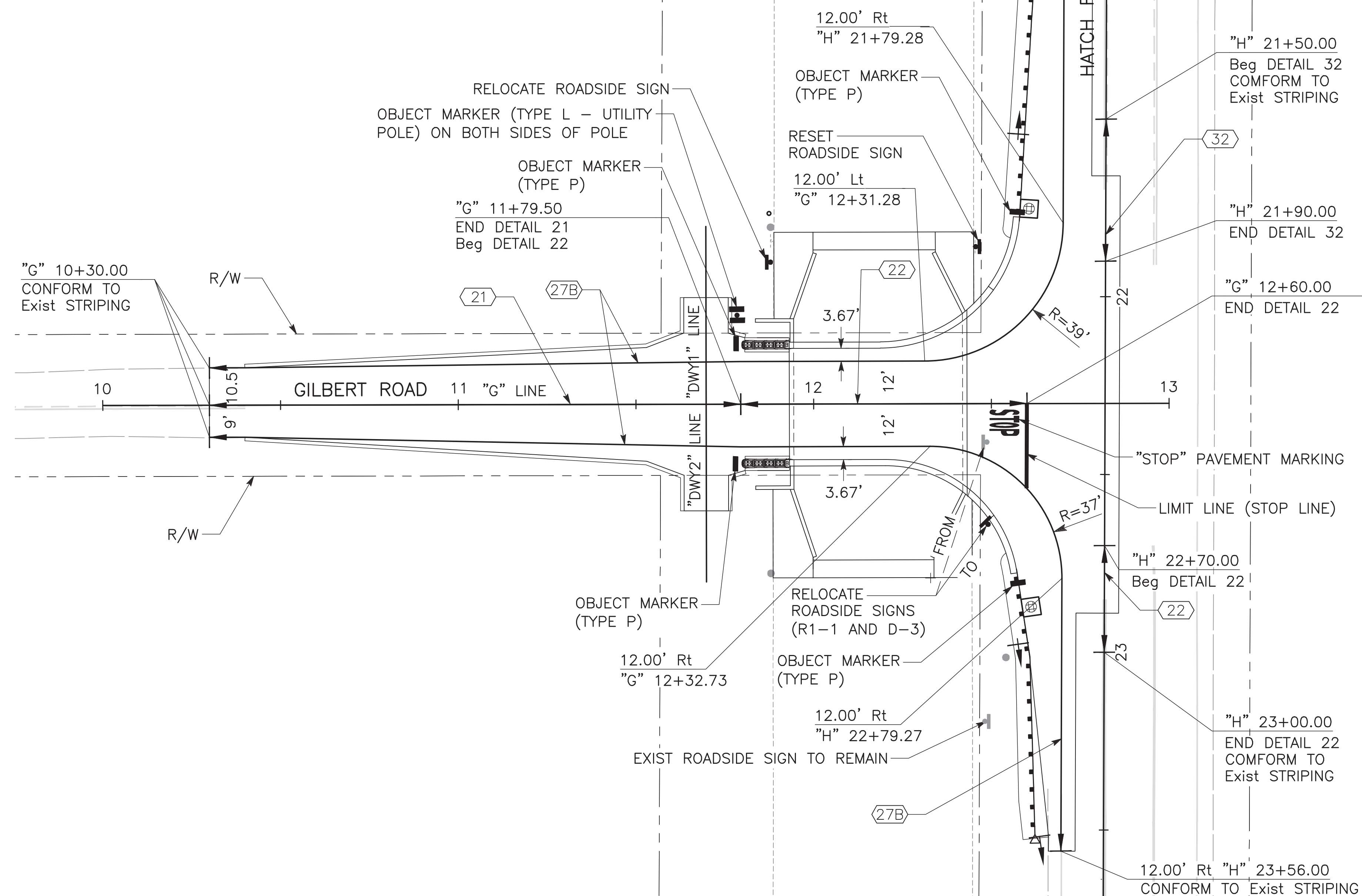


CALL BEFORE YOU DIG

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

1. FOR ACCURATE RIGHT-OF-WAY DATA, CONTACT COUNTY OFFICE.
2. FOR ALL PAVEMENT STRIPING DETAILS, REFER TO CALTRANS STANDARD PLANS DATED 2015.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CA MUTCD.
4. ALL TRAFFIC STRIPES SHALL BE THERMOPLASTIC.

	STRIPING DETAIL NUMBER		DELINEATOR CLASS 1 – TYPE F (MOUNTED TO GUARDRAIL WOOD BLOCK)
	BEGIN OR END OF STRIPING DETAIL		DELINEATOR CLASS 2 – TYPE F
	OBJECT MARKER TYPE P(CA)		PAVEMENT MARKING
	EXISTING ROADSIDE SIGN – ONE POST		
	ROADSIDE SIGN – ONE POST		

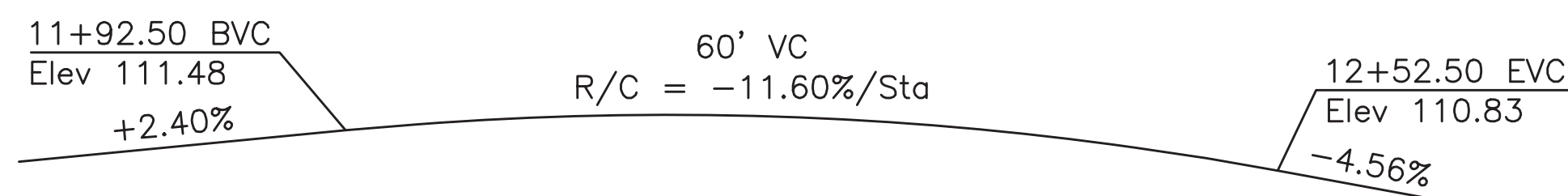


38 SHEETS



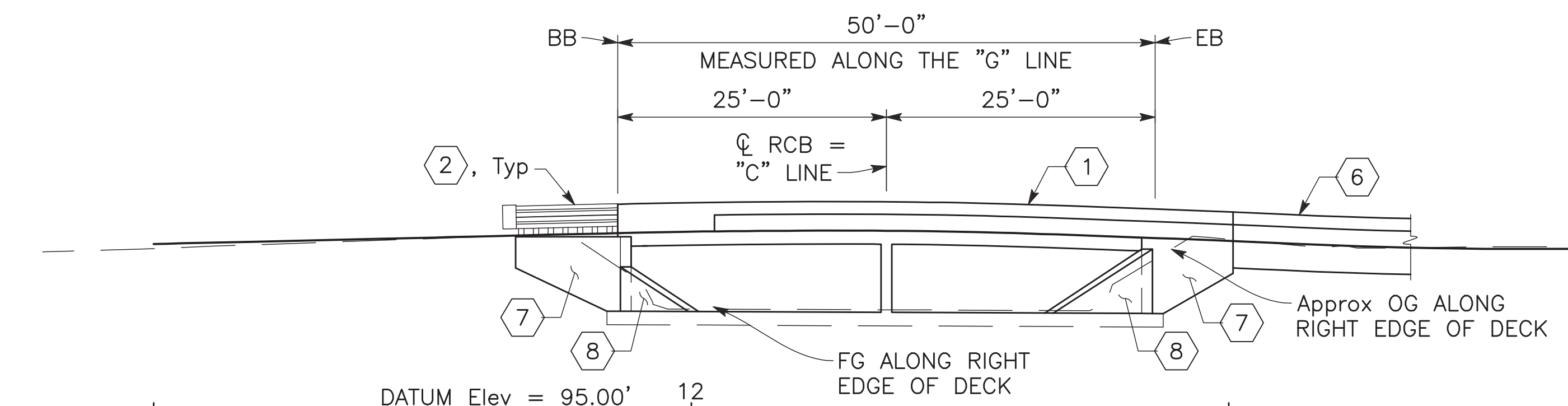


NO	REVISIONS	DATE	APPROVED



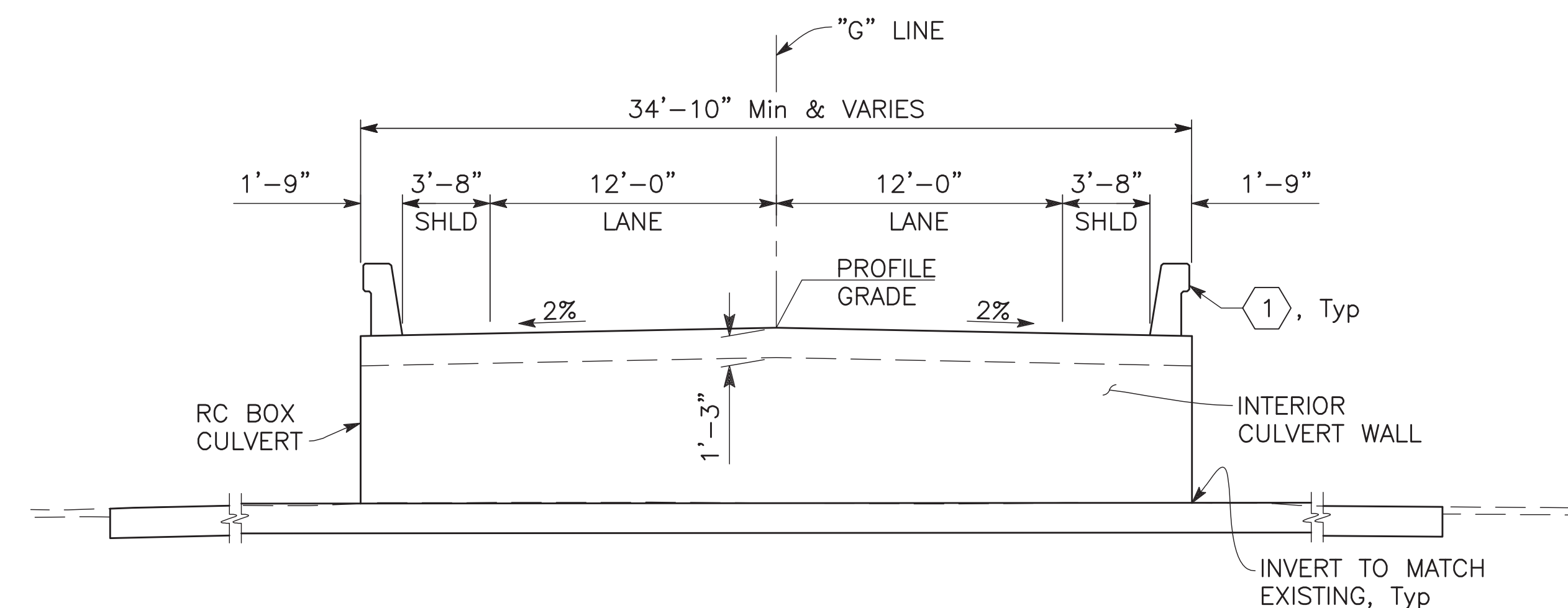
PROFILE GRADE

NO SCALE



TYPICAL SECTION

1" = 10'



ELEVATION

1" = 5'

LEGEND:

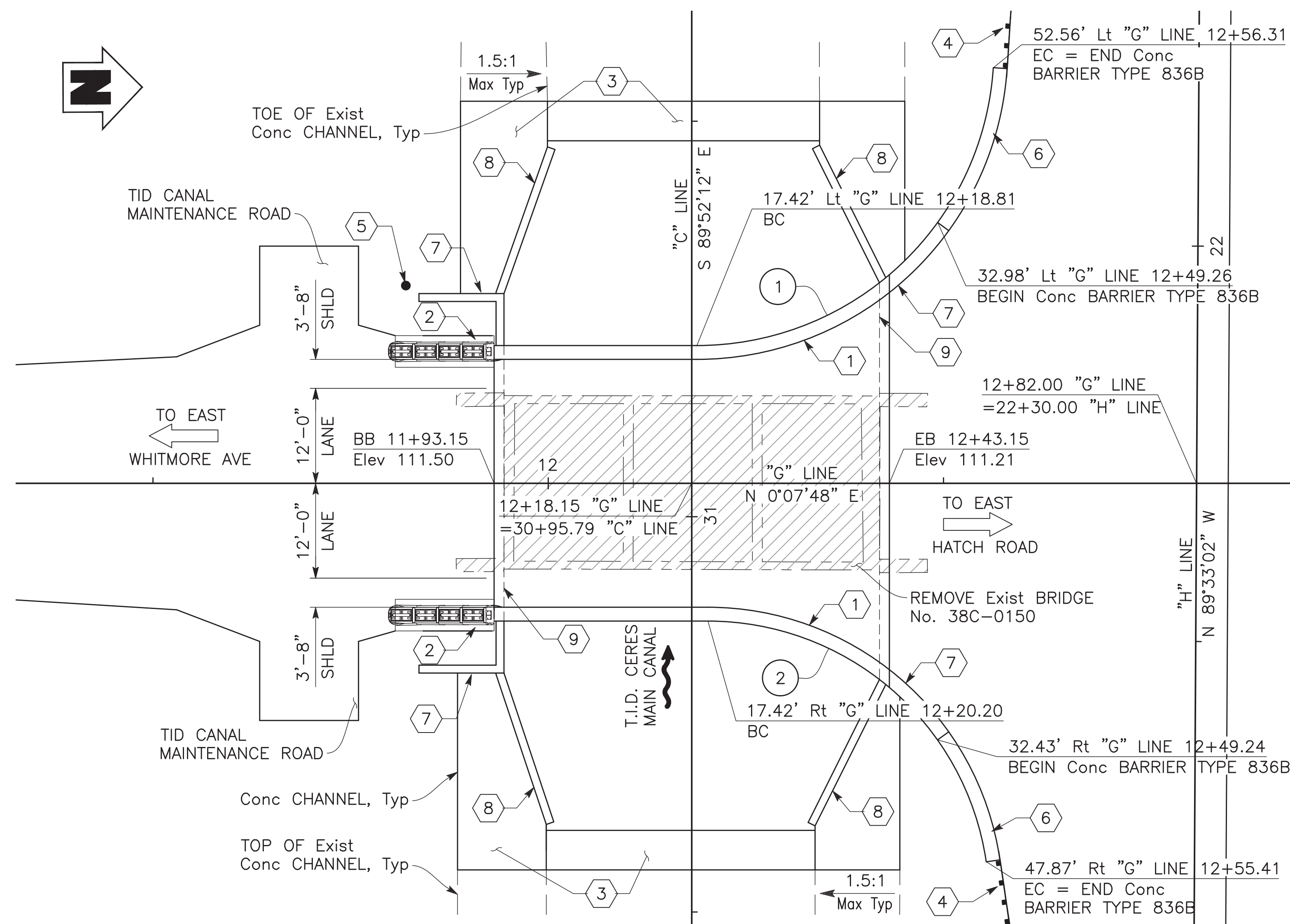
- Indicates Direction of Water Flow
- Indicates Direction of Traffic
- Indicates Existing Bridge to be removed
- Indicates New Structure

NOTES:

- 1 Concrete Barrier (Type 836)
- 2 Crash Cushion, see "Roadway Plans"
- 3 Concrete Channel Lining
- 4 Midwest Guardrail System (MGS), see "Roadway Plans"
- 5 Concrete Filled Pipe
- 6 Concrete Barrier (Type 732B)
- 7 Return Wall
- 8 Culvert Wingwall
- 9 Paint "BR NO. 38C-0348" and year completed.

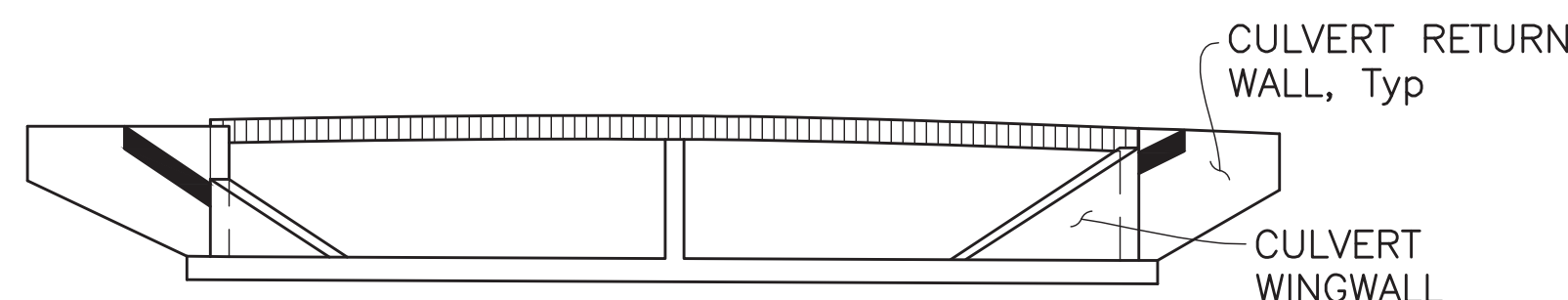
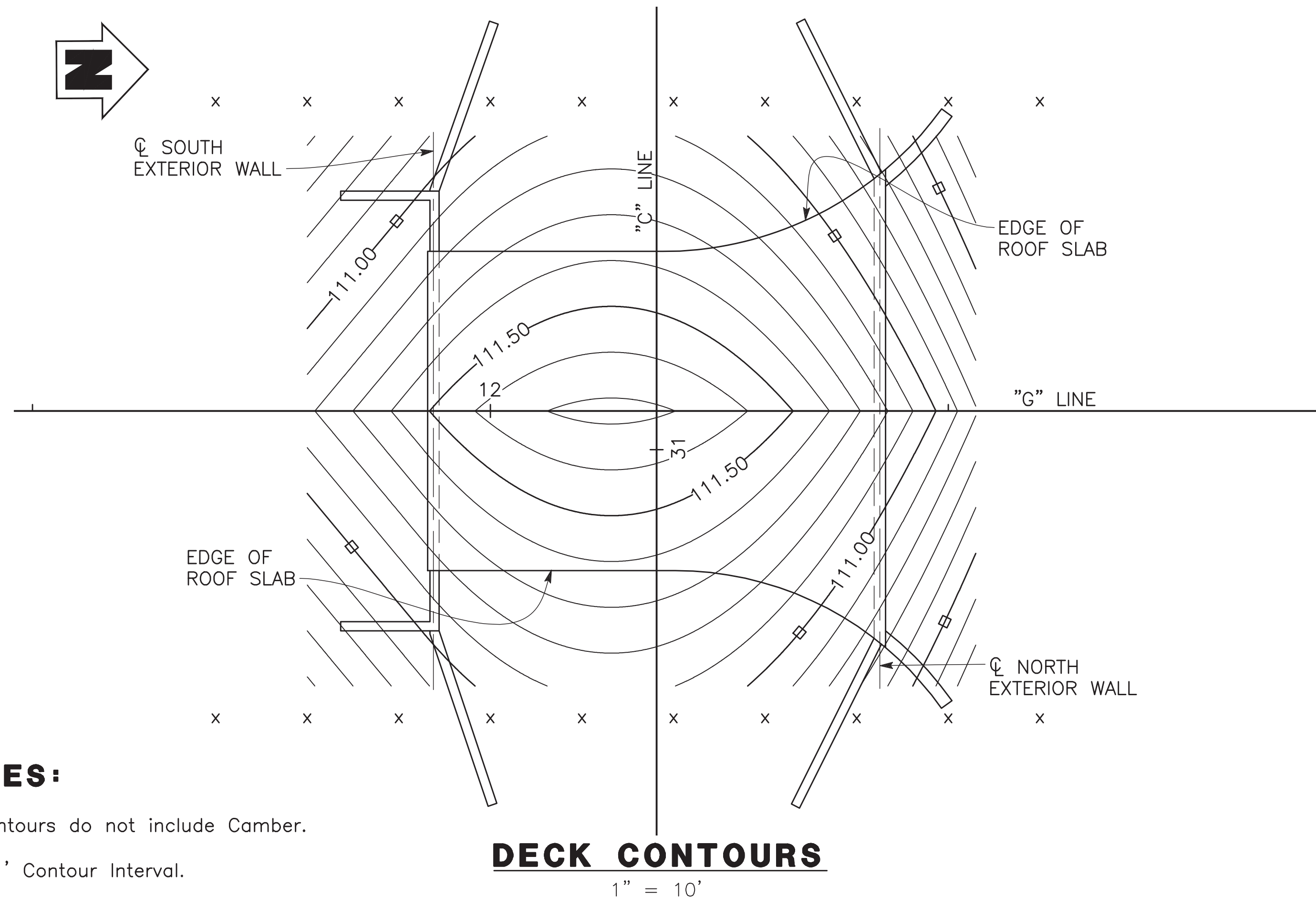
CURVE DATA

No.	R	Δ	T	L
1	37.58'	86°16'51"	35.22'	56.60'
2	35.58'	81°42'35"	30.77'	50.75'



PLAN

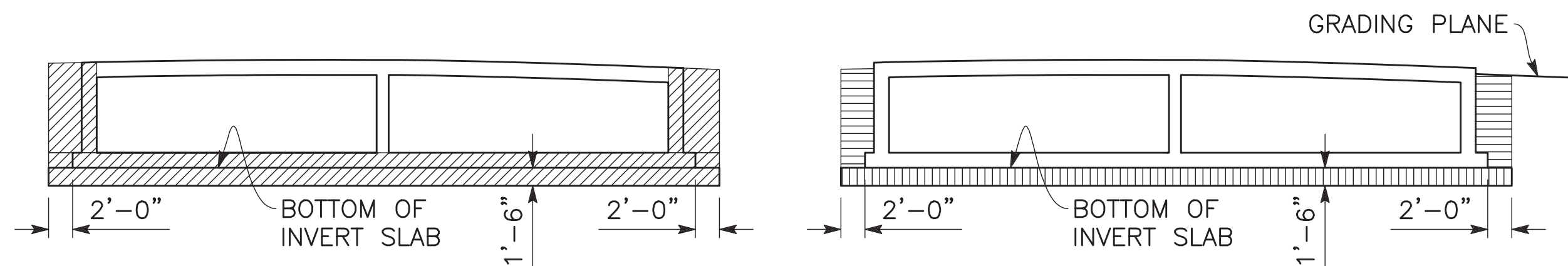
1" = 10'



CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

- Structural Concrete, Bridge (Polymer Fiber) ($f'_c = 3,600$ psi @ 28 Days)
- Structural Concrete, Culvert ($f'_c = 3,600$ psi @ 28 Days)
- Concrete Channel Lining ($f'_c = 3,000$ psi @ 28 Days)



LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

NO SCALE

LEGEND

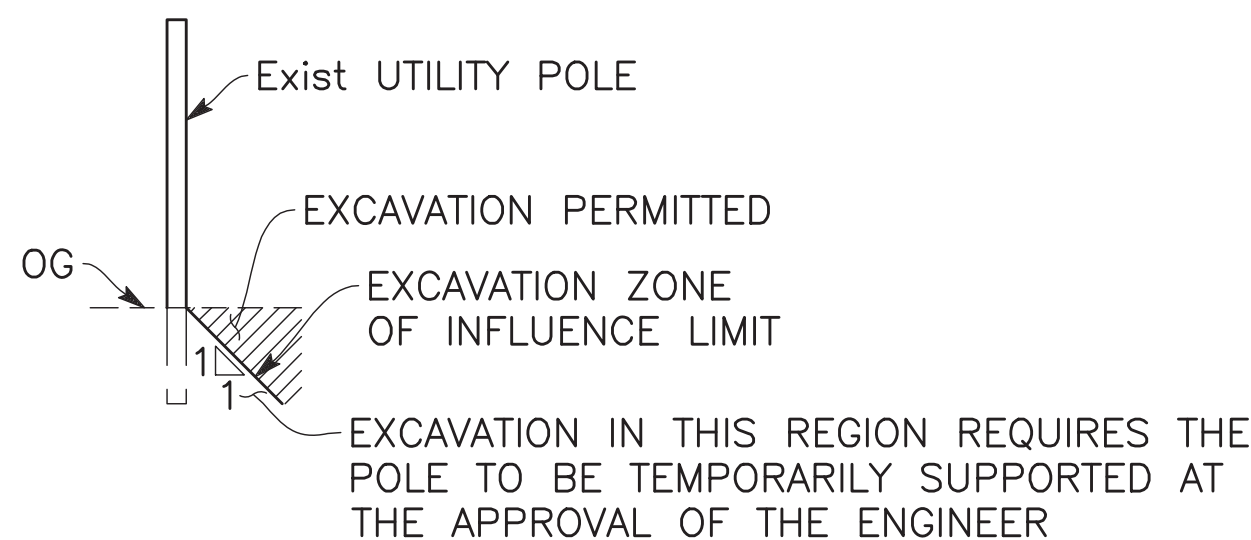
- Structure Excavation (Culvert)
- Structure Backfill (Culvert)
95% Relative Compaction
- Class 2 AB

EXCAVATION AND BACKFILL NOTES:

- For Details not shown see $\frac{A62-A}{-}$ and $\frac{A62-E}{-}$
- Slope or shore excavation sides as necessary.
- Dimensions shown are minimum

INDEX TO PLANS:

No.	Title
24	GENERAL PLAN
25	DECK CONTOURS
26	FOUNDATION PLAN
27	BRIDGE AND CHANNEL REMOVAL DETAILS
28	CULVERT LAYOUT No. 1
29	CULVERT LAYOUT No. 2
30	CULVERT DETAILS No. 1
31	CULVERT DETAILS No. 2
32	CULVERT DETAILS No. 3
33	TYPICAL SECTION
34	SLAB DETAILS No. 1
35	SLAB DETAILS No. 2
36	CONCRETE BARRIER TYPE 836 DETAILS No. 1
37	CONCRETE BARRIER TYPE 836 DETAILS No. 2
38	LOG OF TEST BORINGS



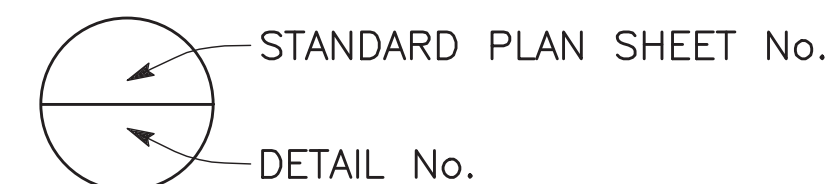
EXCAVATION ZONE OF INFLUENCE

NO SCALE

BRIDGE QUANTITIES		
STRUCTURE EXCAVATION (CULVERT)	CY	591
STRUCTURAL BACKFILL (CULVERT)	CY	73
CLASS 2 AGGREGATE BASE (CULVERT)	CY	265
STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	89
STRUCTURAL CONCRETE (BOX CULVERT)	CY	239
BAR REINFORCING STEEL (BOX CULVERT)	LB	86,363
BRIDGE REMOVAL	LS	1
REMOVE CONCRETE (CHANNEL)	LS	1
CONCRETE (CHANNEL LINING)	CY	19.5
CONCRETE BARRIER (TYPE 836)	LF	123
CONCRETE BARRIER (TYPE 836B)	LF	38

STANDARD PLANS DATED 2015:

No.	Title
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LINES AND SYMBOLS (SHEET 1 OF 5)
RSP A10B	LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A62A	EXCAVATION AND BACKFILL - MISCELLANEOUS DETAILS
A62E	EXCAVATION AND BACKFILL - CAST-IN-PLACE REINFORCED CONCRETE BOX AND ARCH CULVERTS
B0-1	BRIDGE DETAILS
B3-5	RETAINING WALL DETAILS No. 1
D82	CAST-IN-PLACE REINFORCED CONCRETE - BOX CULVERT - MISCELLANEOUS DETAILS
D84	BOX CULVERT WINGWALLS - TYPES A, B AND C



LOAD AND RESISTANCE FACTOR DESIGN:

DESIGN:	AASHTO LRFD Bridge Design Specifications, Sixth Edition, and the California Amendments, preface dated January 2014
EARTH LOAD:	Two Conditions: 42 pcf Horiz 140 pcf Horiz
DEAD LOAD:	Includes 35 psf for future wearing surface and 100 lb/ft for future utilities
LIVE LOADING:	HL 93 w/ "Low Boy" and permit design loading
REINFORCED CONCRETE:	$f_y = 60$ ksi $f'_c = 3.6$ ksi $n = 8$
ALLOWABLE BEARING CAPACITY:	See "Foundation Plan"



[illegible]

BEARING TABLE		
Location	Bearing	
	Begin	End
Culvert WWL 1*	N 89°52'12" W	N 70°24'38" W
Culvert WWL 2*	N 89°52'12" W	N 71°39'21" E
Culvert WWL 3	N 63°33'54" E	
Culvert WWL 4	N 63°18'18" W	
Return Wall LOL 1	N 0°07'48" E	
Return Wall LOL 2	N 0°07'48" E	
Return Wall LOL 3*	N 39°00'31" W	N 53°59'59" W
Return Wall LOL 4*	N 38°59'19" E	N 54°49'20" E
☉ South Exterior Wall	N 89°52'12" W	
☉ Interior Wall	N 89°52'12" W	
☉ North Exterior Wall	N 89°52'12" W	

Location	Station	Offset	Bottom of Invert Slab Elevation
A	11+92.15	24.38 Lt	103.58
B	11+98.84	43.32 Lt	103.58
C	12+35.43	43.32 Lt	103.46
D	12+43.92	26.36 Lt	103.46
E	12+43.92	25.81 Rt	103.53
F	12+34.88	43.88 Rt	103.53
G	11+98.67	43.88 Rt	103.68
H	11+92.15	24.37 Rt	103.68

Frequency (Years)	Not Applicable
Discharge (Cubic feet per second)	780
Water Surface Elevation, ft (NAVD88) Immediately Upstream of Bridge	109.90

Support Location	Service Permissible Net Contact Stress (Settlement) (ksf)	Strength/Construction Factored Gross Nominal Bearing Resistance $\phi_b = 0.45$ (ksf)	Extreme Event Factored Gross Nominal Bearing Resistance $\phi_b = 1.0$ (ksf)
Box Culvert	1.30	2.0	N/A

No.	R	Δ	T	L
3	37.58'	14°59'28"	4.94'	9.83'
4	35.58'	15°50'01"	4.95'	9.83'



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 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING AND OPERATIONS DIVISION
 1716 MORGAN ROAD – MODESTO, CA 95358

FOUNDATION PLAN

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

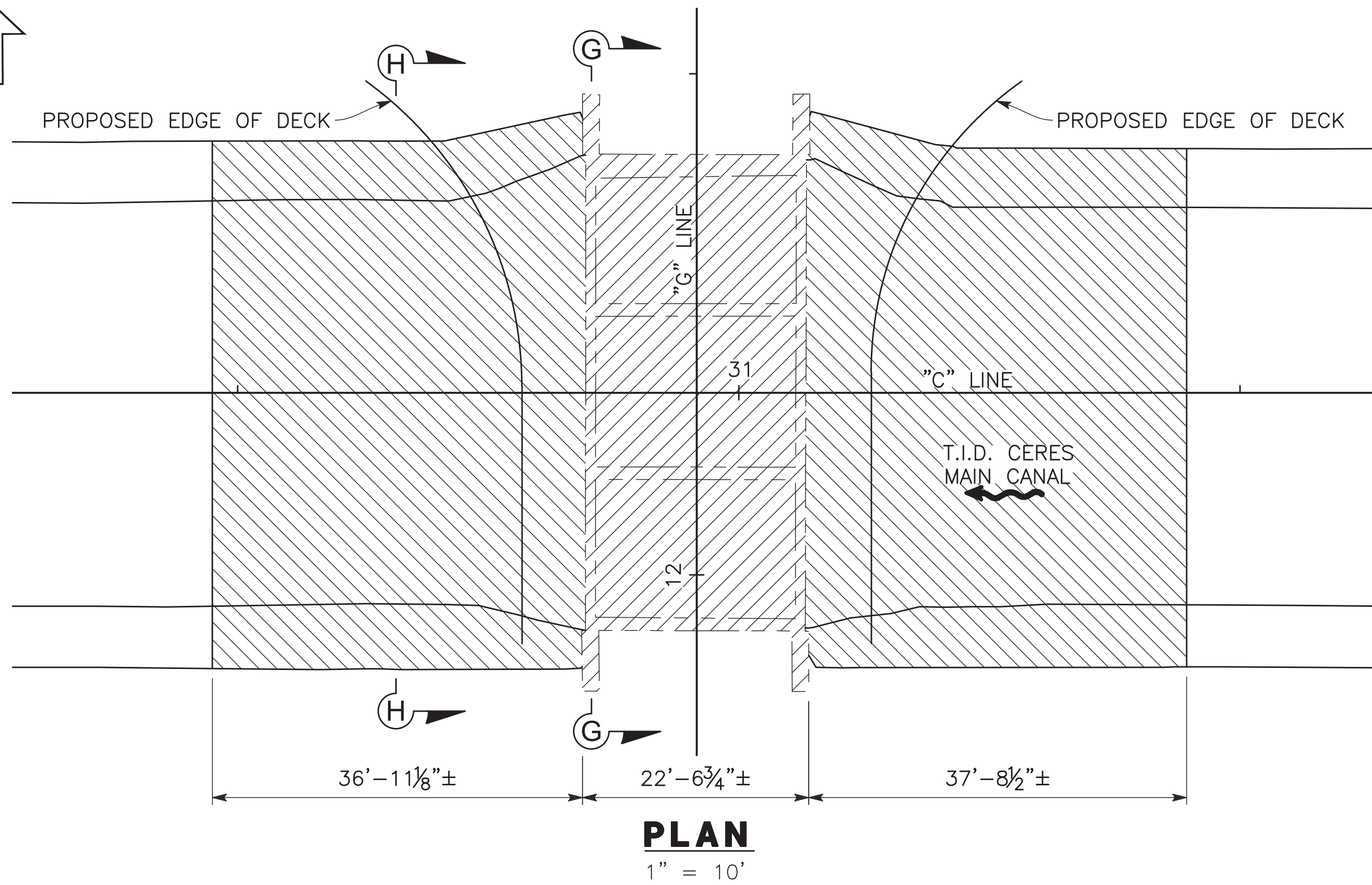
OB NO 38C-0150
DATE 03/13/2020
R BY A. HYDE
K BY _____
URVEY _____
ONST. _____
CALE _____

SHEET
NUMBER

F 38 SHEETS

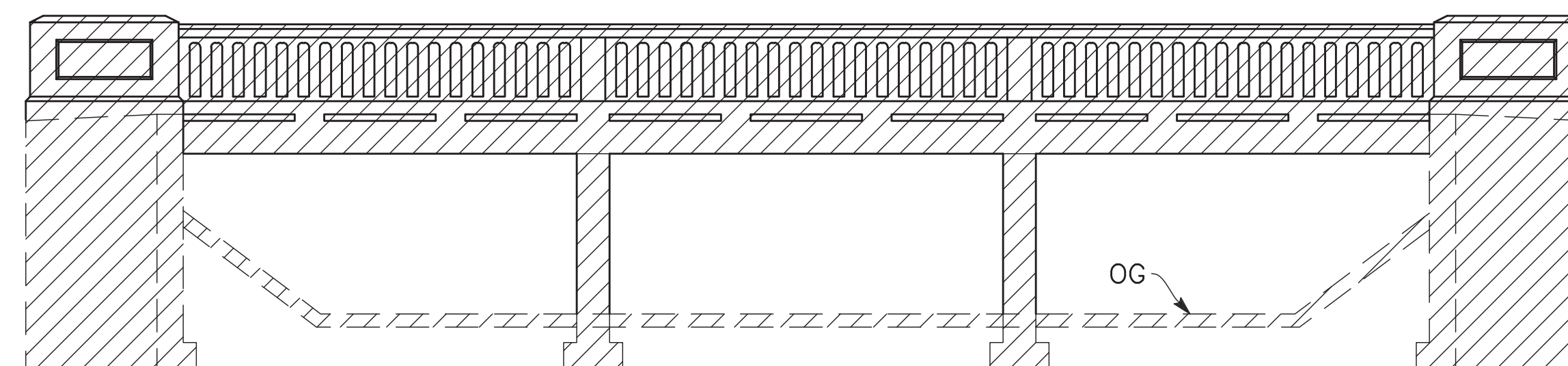


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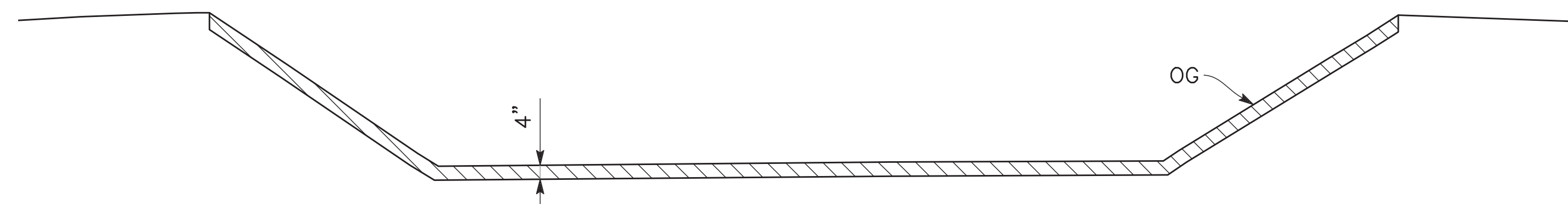


 Indicates Limits of Bridge Removal

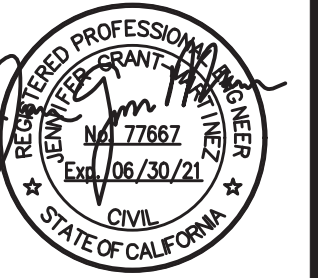
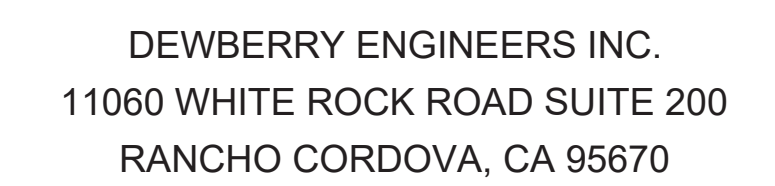
 Indicates Limits of Remove Concrete Channel



SECTION G-G
NO SCALE



SECTION H-H
NO SCALE

[illegible]

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DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
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BRIDGE AND CHANNEL REMOVAL DETAILS

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO 38C-0150
 DATE 03/13/2020
 R BY A. HYDE
 K BY _____
 SURVEY _____
 CONST. _____
 SCALE _____

SHEET
NUMBER

27

F 38 SHEETS



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1776 MORGAN ROAD – MODESTO, CA 95358



CULVERT LAYOUT No. 1

IMPROVEMENT PLANS FOR:
**GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA**

JOB NO 38C-0150
DATE 03/13/20
DR BY A. HYDE
CK BY _____
SURVEY _____
CONST. _____
SCALE _____

SHEET
NUMBER

28

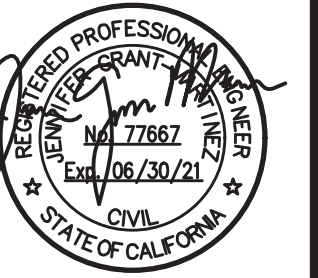
OF 38 SHEETS



- | | |
|---|--|
| <p>1. For "SECTION A-A", "SECTION B-B", AND "SECTION C-C" see "CULVERT DETAILS No. 1" sheet.</p> <p>2. For "SECTION F-F" see "CULVERT DETAILS No. 3" sheet.</p> | <p>DETAILS No. 3" sheet.</p> <p>4. For Concrete Channel Stations, Offsets, and elevations see "CONSTRUCTION DETAILS No. 2" on Roadway Plans.</p> |
|---|--|



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CULVERT LAYOUT No. 2

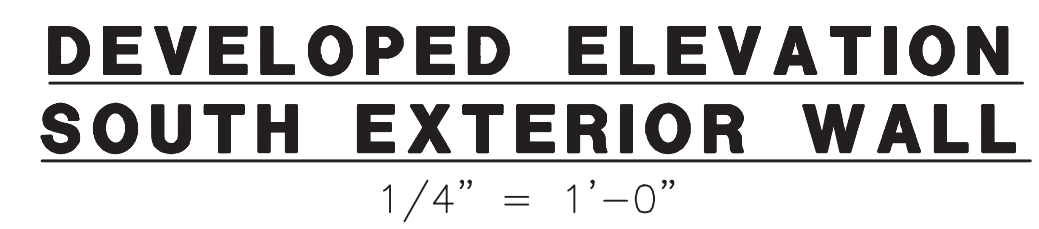
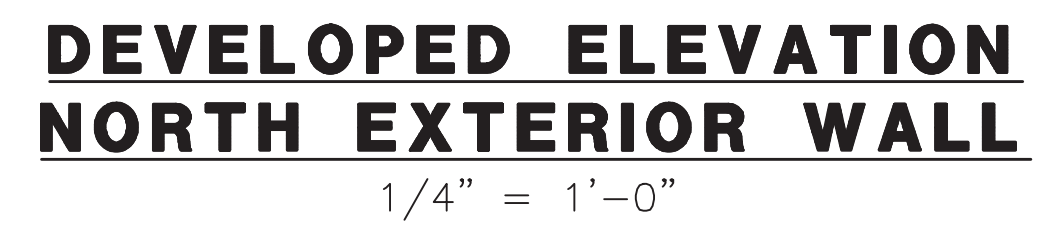
IMPROVEMENT PLANS FOR:
**GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA**

OB NO 38C-0150
DATE 03/13/2020
R BY A. HYDE
K BY _____
SURVEY _____
CONST. _____
SCALE _____

SHEET
NUMBER

29

F 38 SHEETS



1. For Concrete Channel Stations, Offsets, and elevations see "CONSTRUCTION DETAILS No. 2" on Roadway Plans.
2. See "TRANSITION DETAIL" on "CULVERT DETAILS No. 3" sheet.
3. For "SECTION D-D" and "SECTION E-E" see "CULVERT DETAILS No. 2" sheet.



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REVISIONS	
NO.	DESCRIPTIONS
1	ADDED CONSTRUCTION JOINT
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STANISLAUS COUNTY
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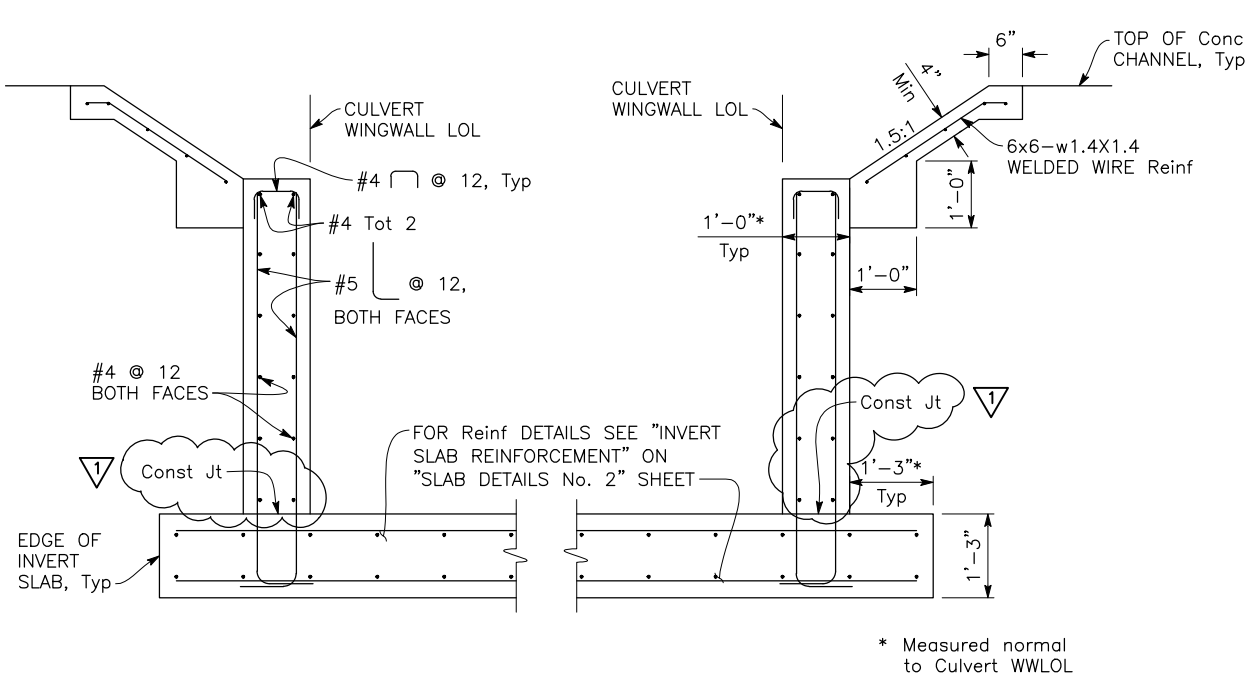
CULVERT DETAILS NO. 1

IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	38C-0150
DATE	03/13/2020
DR BY	A. HYDE
CK BY	
SURVEY	
CONST.	
SCALE	

SHEET
NUMBER
30

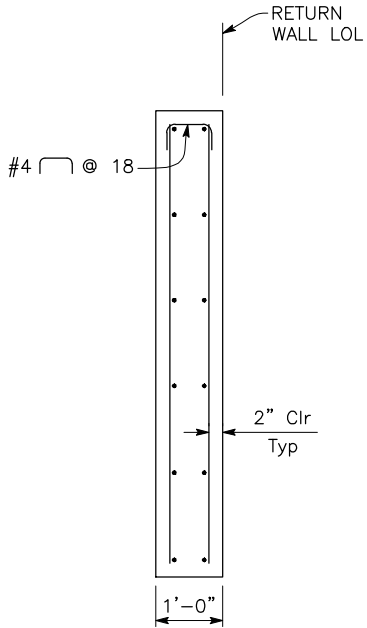
OF 38 SHEETS



SECTION A-A

1/2" = 1'-0"
CULVERT WINGWALL 2 AND 4 SHOWN,
CULVERT WINGWALL 1 AND 3 SIMILAR

1 REVISED PER ADDENDUM NO. 1 DATED AUGUST 06, 2020

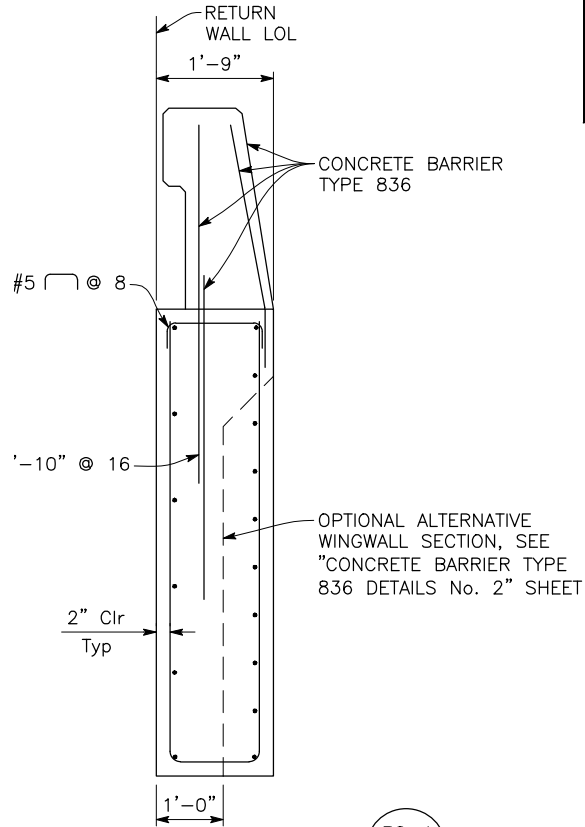


FOR DETAILS NOT SHOWN, SEE

B3-5
-
"RETURN WALL TYPE C"

SECTION B-B

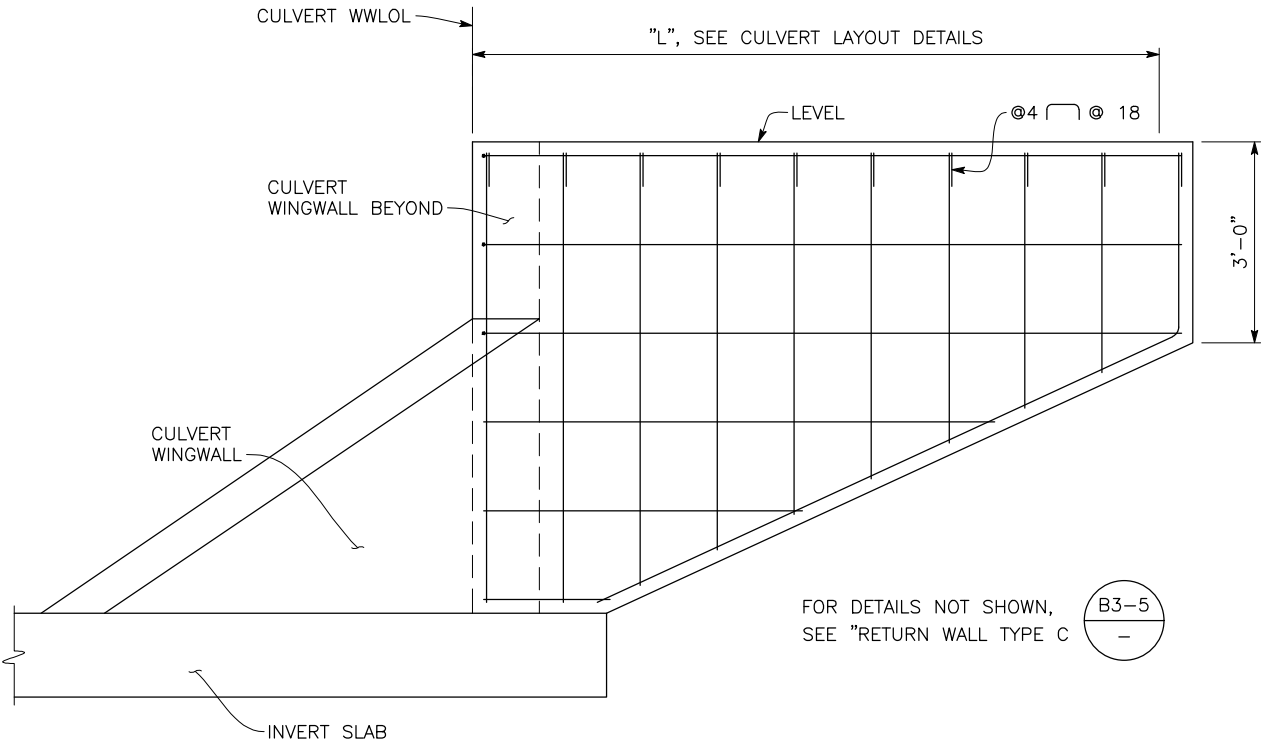
3/4" = 1'-0"
RETURN WALL 1 SHOWN, RETURN WALL 2 SIMILAR



FOR DETAILS NOT SHOWN, SEE

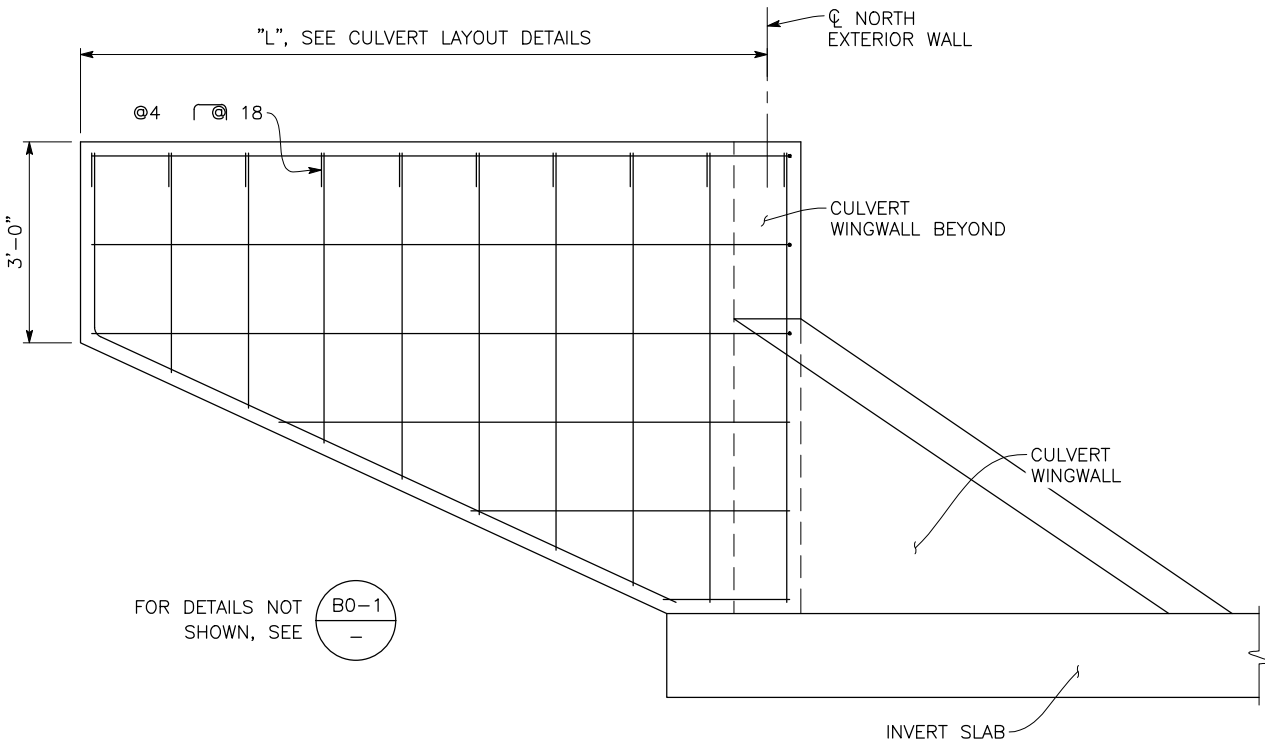
SECTION C-C

3/4" = 1'-0"
RETURN WALL 4 SHOWN, RETURN WALL 3 SIMILAR



RETURN WALL 1 - ELEVATION

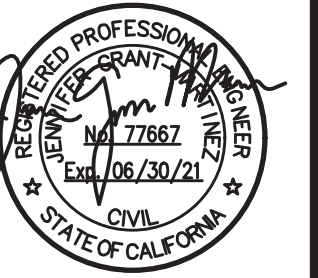
3/4" = 1'-0"
RETURN WALL 2 SIMILAR



RETURN WALL 3 - ELEVATION

3/4" = 1'-0"
RETURN WALL 4 SIMILAR



[illegible]

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CULVERT DETAILS No. 2

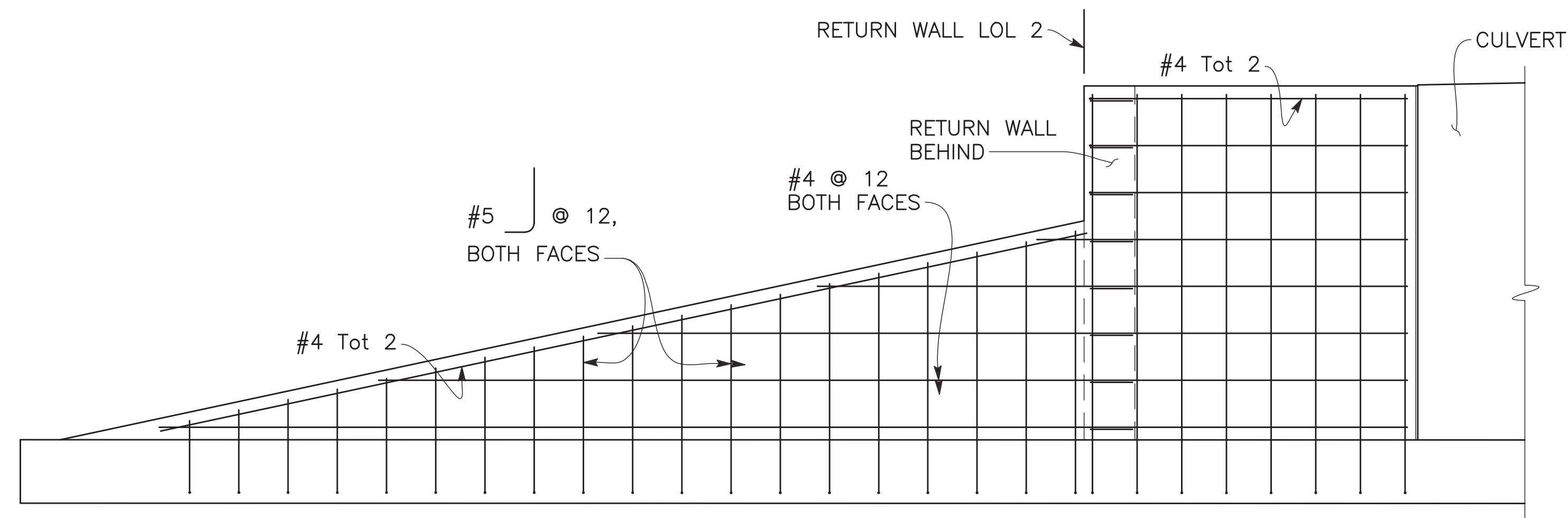
IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO 38C-0150
DATE 03/13/2020
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K BY _____
SURVEY _____
CONST. _____
SCALE _____

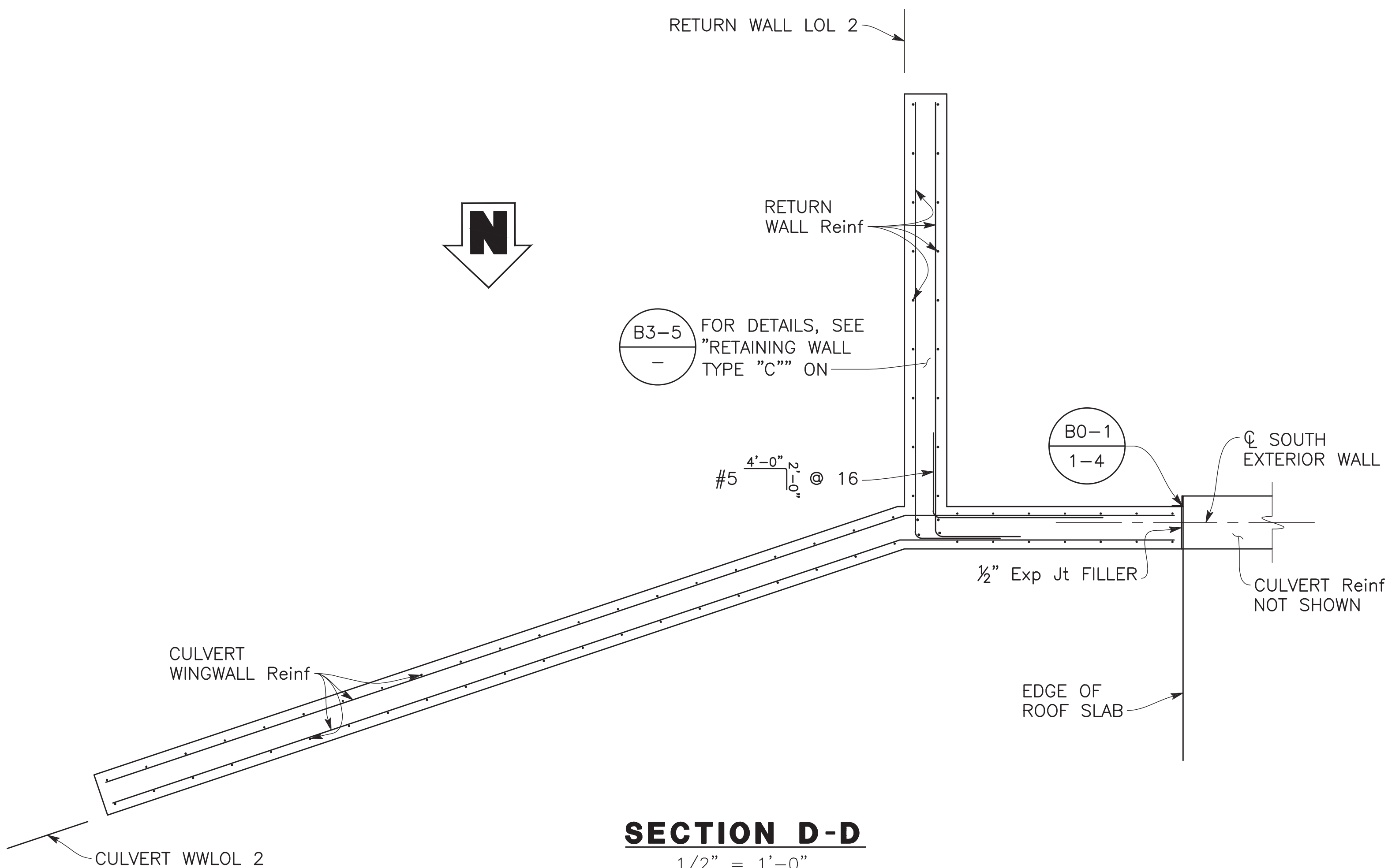
SHEET
NUMBER

31

F 38 SHEETS



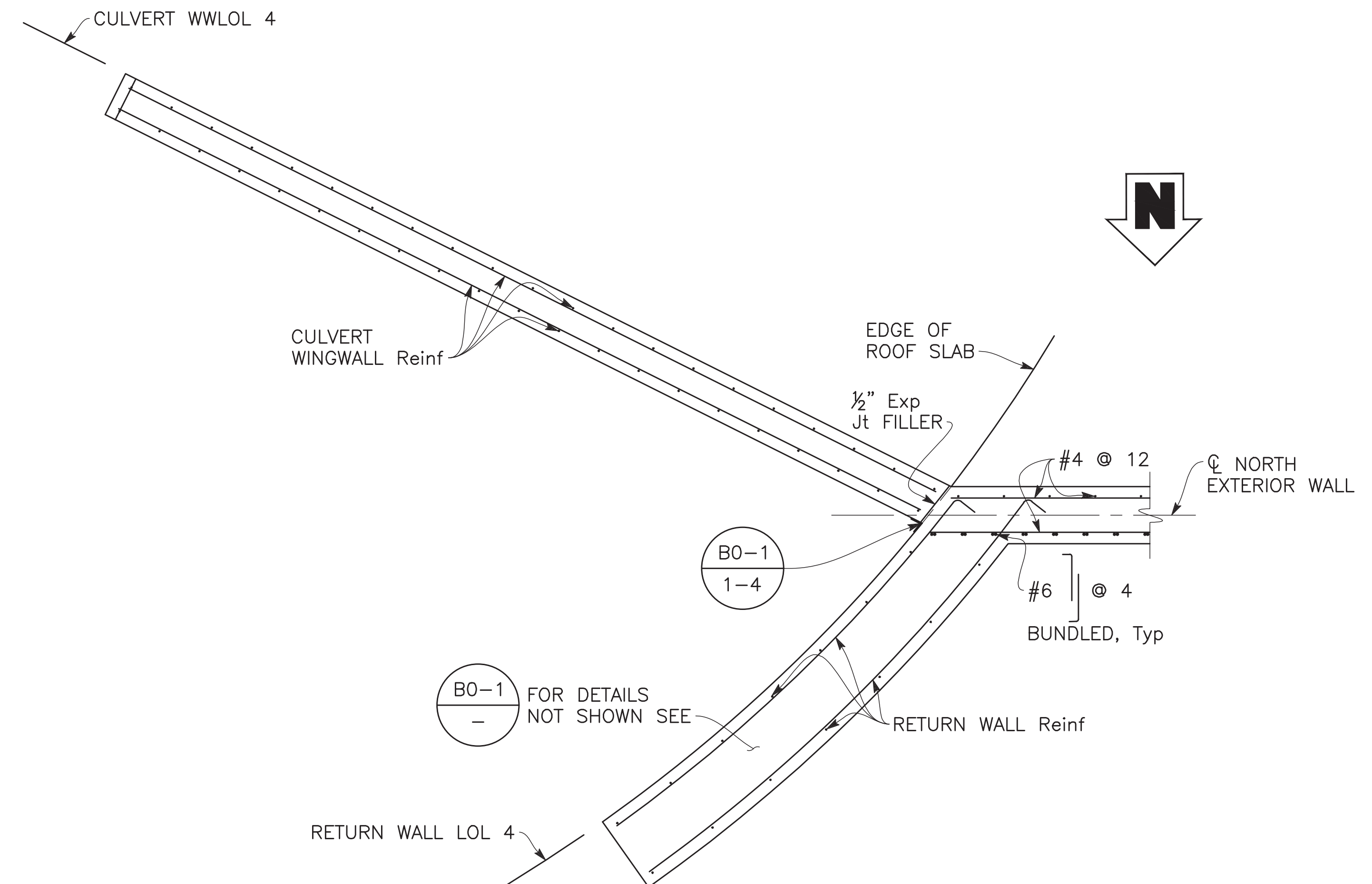
CULVERT WINGWALL 2
DEVELOPED ELEVATION



SECTION D-D

1/2" = 1'-0"

WINGWALL 2 & RETURN WALL 2 SHOWN,
WINGWALL 1 & RETURN WALL 1 SIMILAR



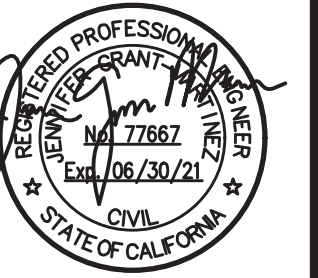
SECTION E-E

1/2" = 1'-0"

WINGWALL 4	&	RETURN WALL 4	SHOWN,
WINGWALL 3	&	RETURN WALL 3	SIMILAR



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CULVERT DETAILS No. 3

IMPROVEMENT PLANS FOR:
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OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

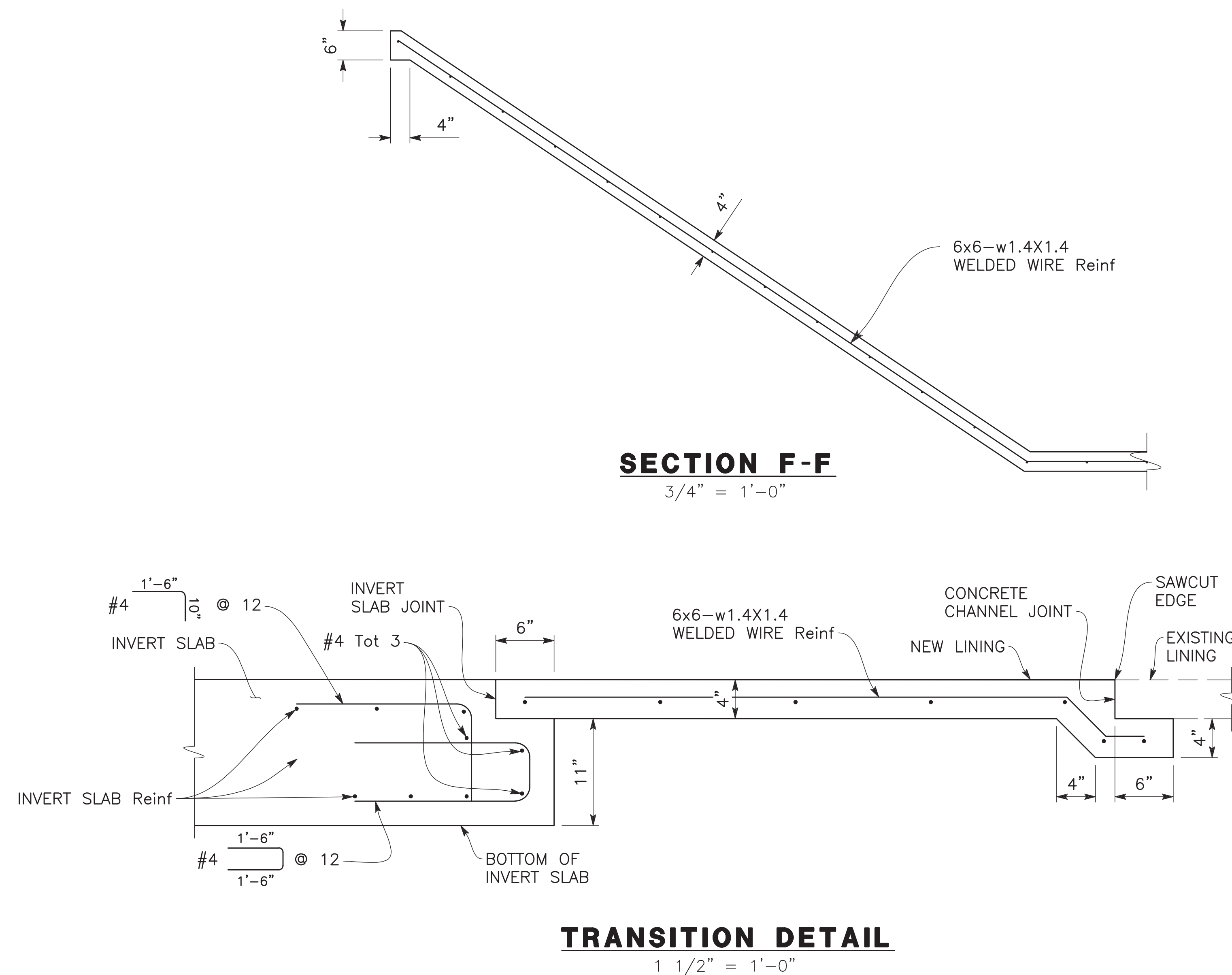
OB NO 38C-0150
DATE 03/13/2020
R BY A. HYDE
K BY _____
SURVEY _____
CONST. _____
SCALE _____

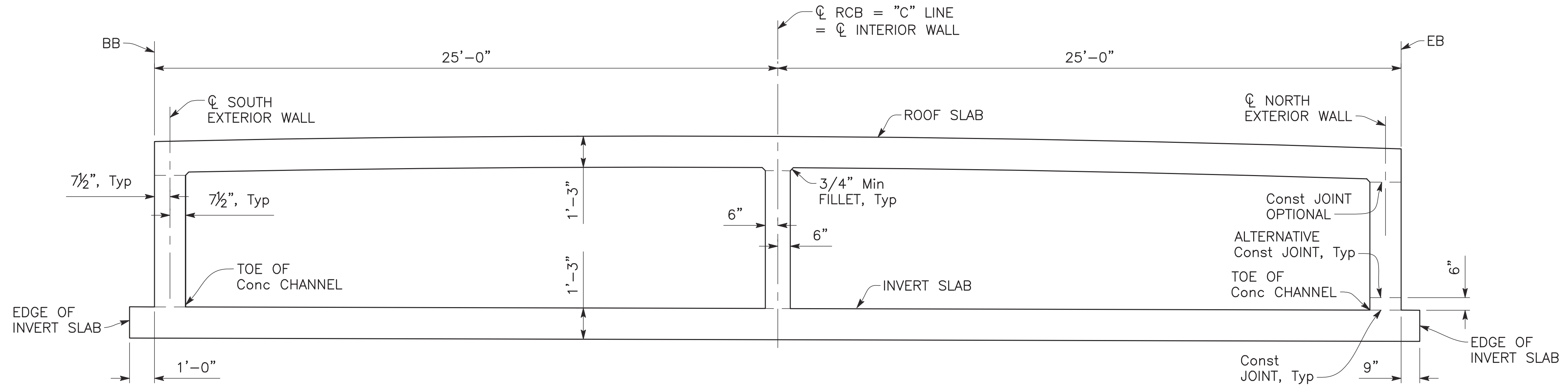
32

SHEETS

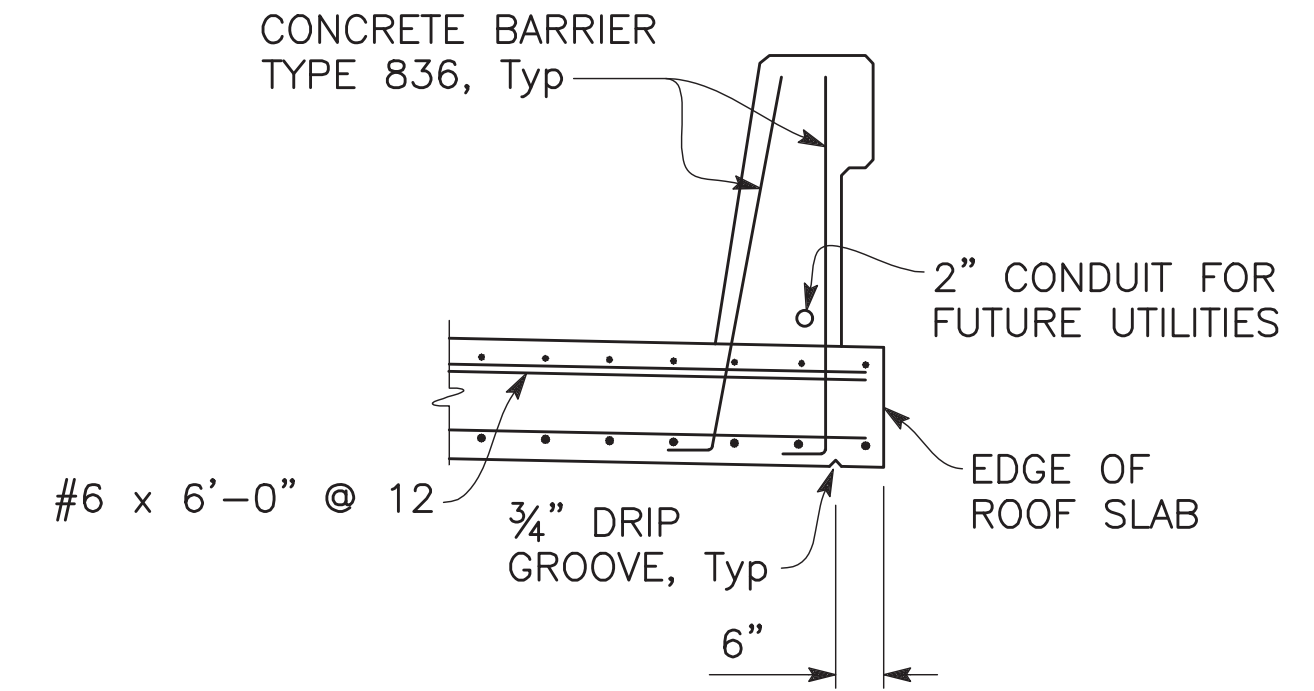


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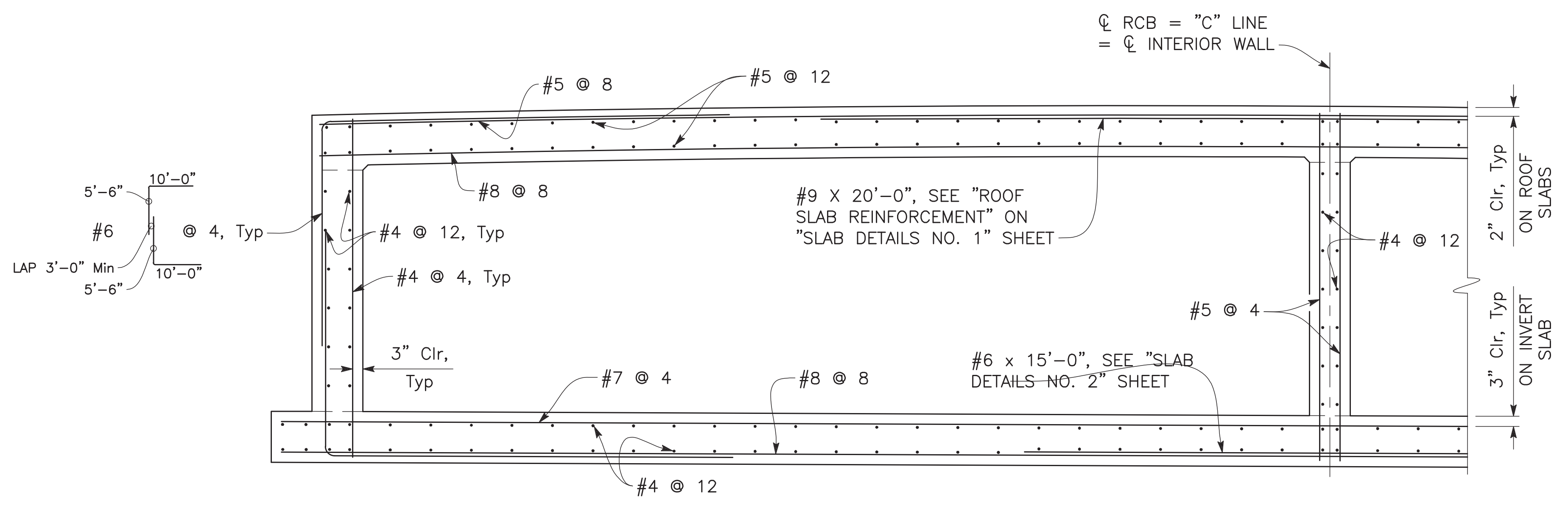




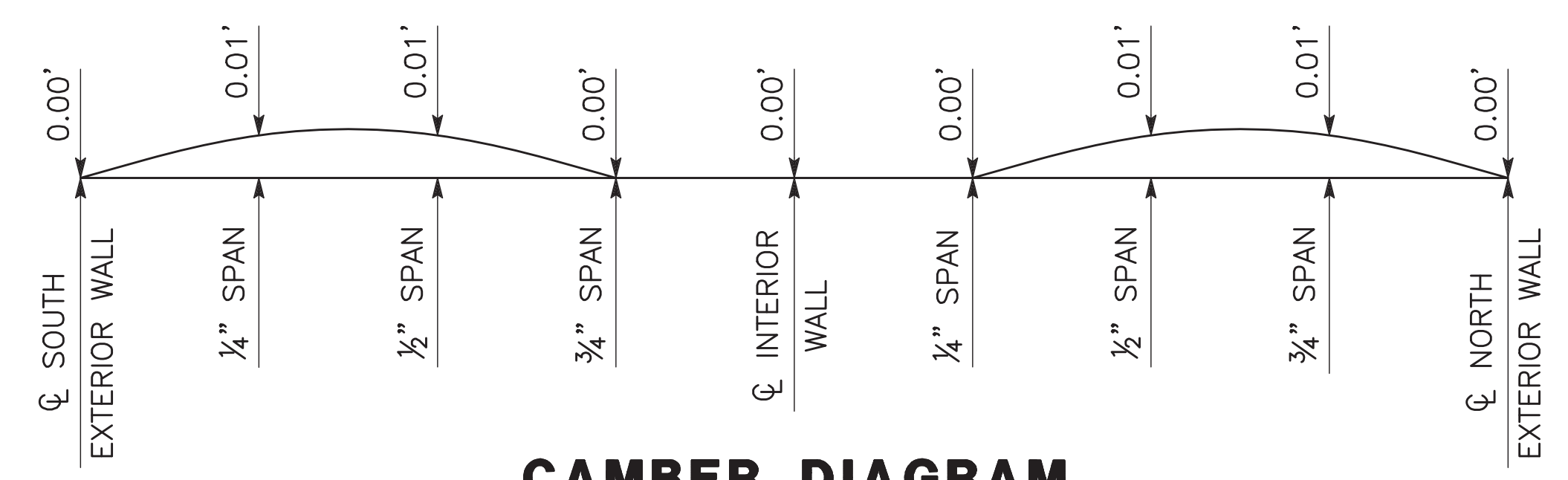
TYPICAL SECTION
3/8" = 1'-0"



BARRIER ON SLAB DETAIL
NO SCALE
RIGHT EDGE OF ROOF SLAB SHOWN, LEFT EDGE SIMILAR



PART TYPICAL SECTION
1/2" = 1'-0"



CAMBER DIAGRAM
NO SCALE



[illegible]

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SLAB DETAILS No. 1

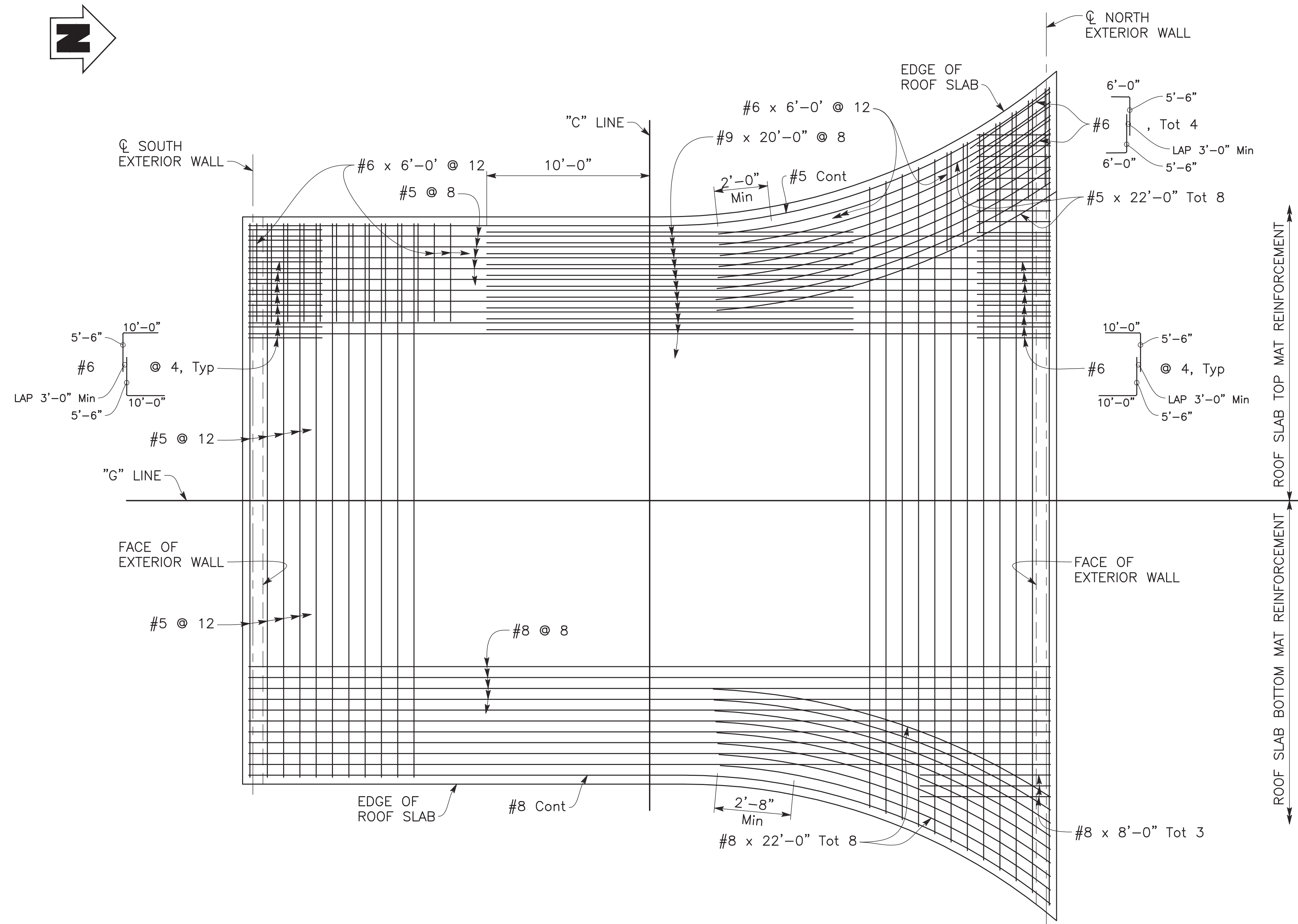
IMPROVEMENT PLANS FOR:
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CERES, CALIFORNIA

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DATE 03/13/2020
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K BY _____
URVEY _____
ONST. _____
CALE _____

SHEET
NUMBER

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F 38 SHEETS



ROOF SLAB REINFORCMENT

$$1/4'' = 1'-0''$$


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[illegible]

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SLAB DETAILS No. 2

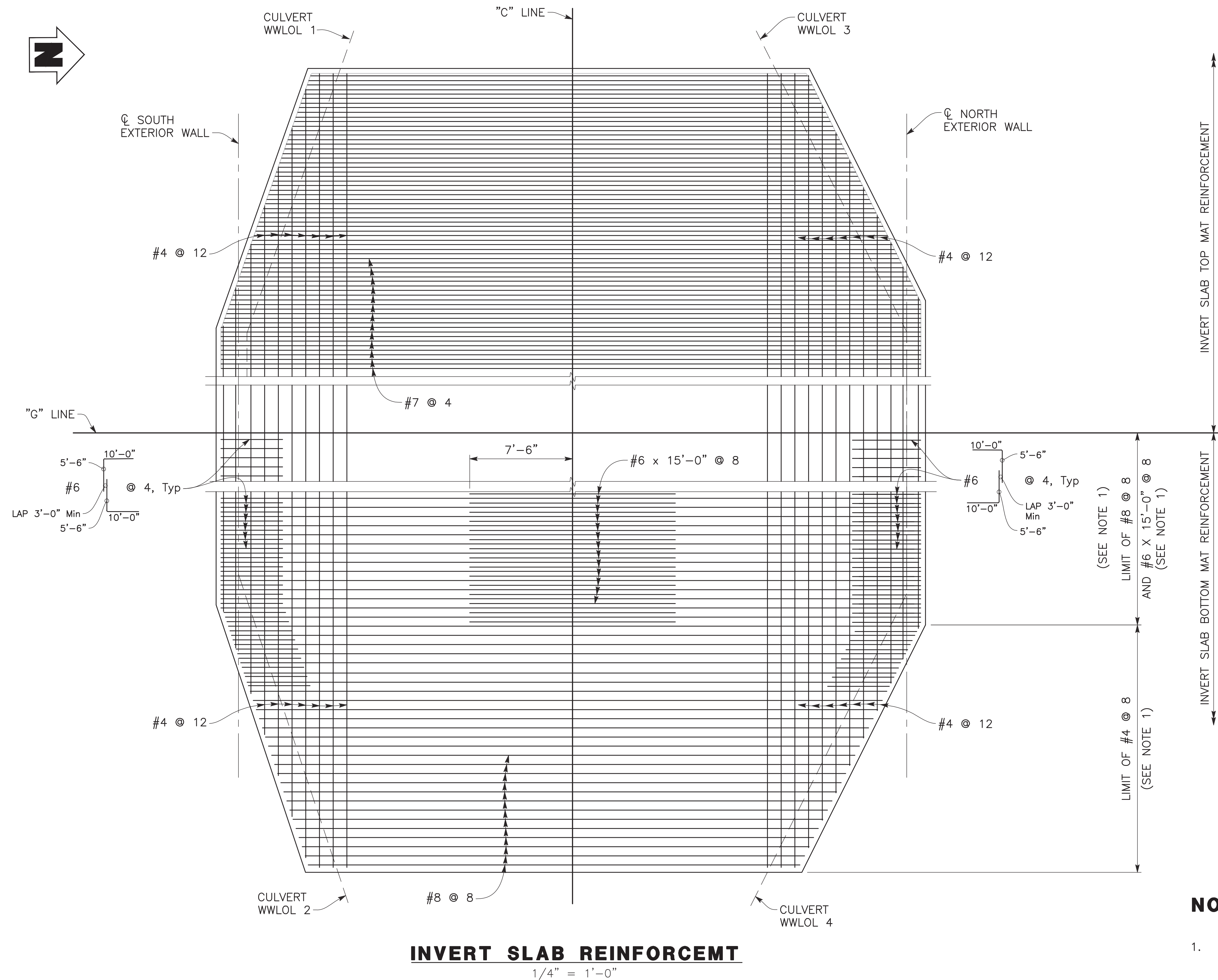
IMPROVEMENT PLANS FOR:
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OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO 38C-0150
DATE 03/13/2020
R BY K. DRESBACH
K BY _____
SURVEY _____
CONST. _____
SCALE _____

SHEET
NUMBER

35

F 38 SHEETS



NOTE:

1. FOR INVERT SLAB LAYOUT, SEE "FOUNDATION PLAN" SHEET.



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[illegible]

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CONCRETE BARRIER TYPE 836
NO. 1

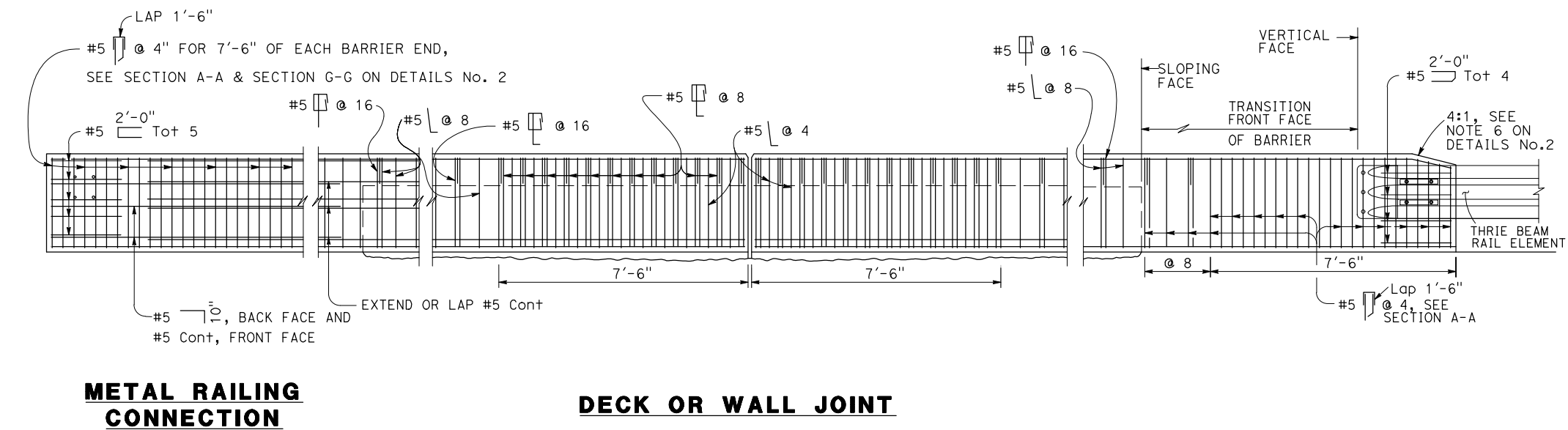
IMPROVEMENT PLANS FOR:
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OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

OB NO 38C-0150
 DATE 03/13/2020
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 K BY _____
 SURVEY _____
 ONST. _____
 SCALE _____

SHEET
NUMBER

36

F 38 SHEETS



METAL RAILING CONNECTION

DECK OR WALL JOINT

ELEVATION



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[illegible]

Types 836A & 836B are
similar to Type 842
except as noted



SEE NOTE 10



SEE NOTES



1. Walls are to be backfilled before barrier is placed.
2. Clearance to reinforcing steel in barrier to be 2", except as noted. Longitudinal reinforcement to stop at all expansion joints.
3. Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See "ROADWAY PLANS."
4. For typical metal railing connection details not shown, see Standard Plans A77U1 and A77U2.
5. Minimum concrete edge distance, to the reinforcing shown, shall be maintained. Edge distance may be adjusted to accommodate increase in concrete cover for architectural treatment.
6. Taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail element.



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CONCRETE BARRIER TYPE 836
NO. 2

**IMPROVEMENT PLANS FOR:
GILBERT ROAD BRIDGE REPLACEMENT
OVER TID CERES MAIN CANAL**

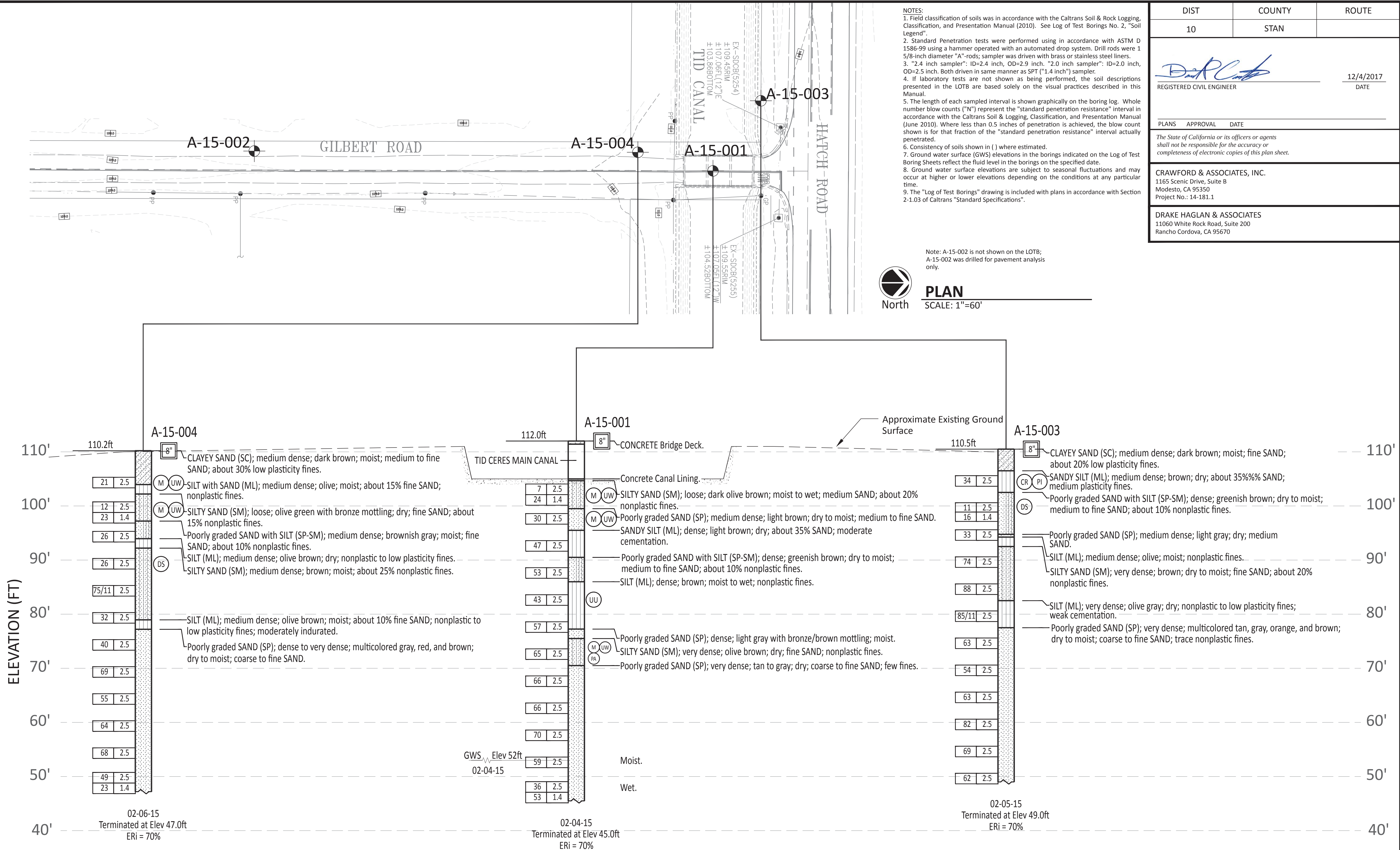
JOB NO 38C-0150
DATE 03/13/20
DR BY A. HYDE
CK BY _____
SURVEY _____
CONST. _____
SCALE _____

SHEET
NUMBER

37

OF 38 SHEET

/Users/S Crawford/Box Sync/Projects/14-181.1 Gilbert Road Bridge - Stan County/CAO/DWG/14-181.1 LOTB.dwg



PROFILE | HORIZ: 1"=8'
VERT: 1"=8'



JOB NO	12/4/2017
DATE	
DR BY	
CK BY	
SURVEY	
CONST.	
SCALE	
SHEET NUMBER	3y
OF 38 SHEETS	

DIST	COUNTY	ROUTE
10	STAN	
DAVID P. CASTRO No. 78093 Exp. 9-30-19 REGISTERED CIVIL ENGINEER STATE OF CALIFORNIA 12/4/2017 DATE		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		
CRAWFORD & ASSOCIATES, INC. 1165 Scenic Drive, Suite B Modesto, CA 95350 Project No.: 14-181.1		
DRAKE HAGLAN & ASSOCIATES 11060 White Rock Road, Suite 200 Rancho Cordova, CA 95670		

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LOG OF TEST BORINGS
IMPROVEMENT PLANS FOR
GILBERT ROAD BRIDGE
OVER TID CERES MAIN CANAL
CERES, CALIFORNIA

JOB NO	12/4/2017
DATE	
DR BY	
CK BY	
SURVEY	
CONST.	
SCALE	
SHEET NUMBER	3y
OF 38 SHEETS	

