LEGEND

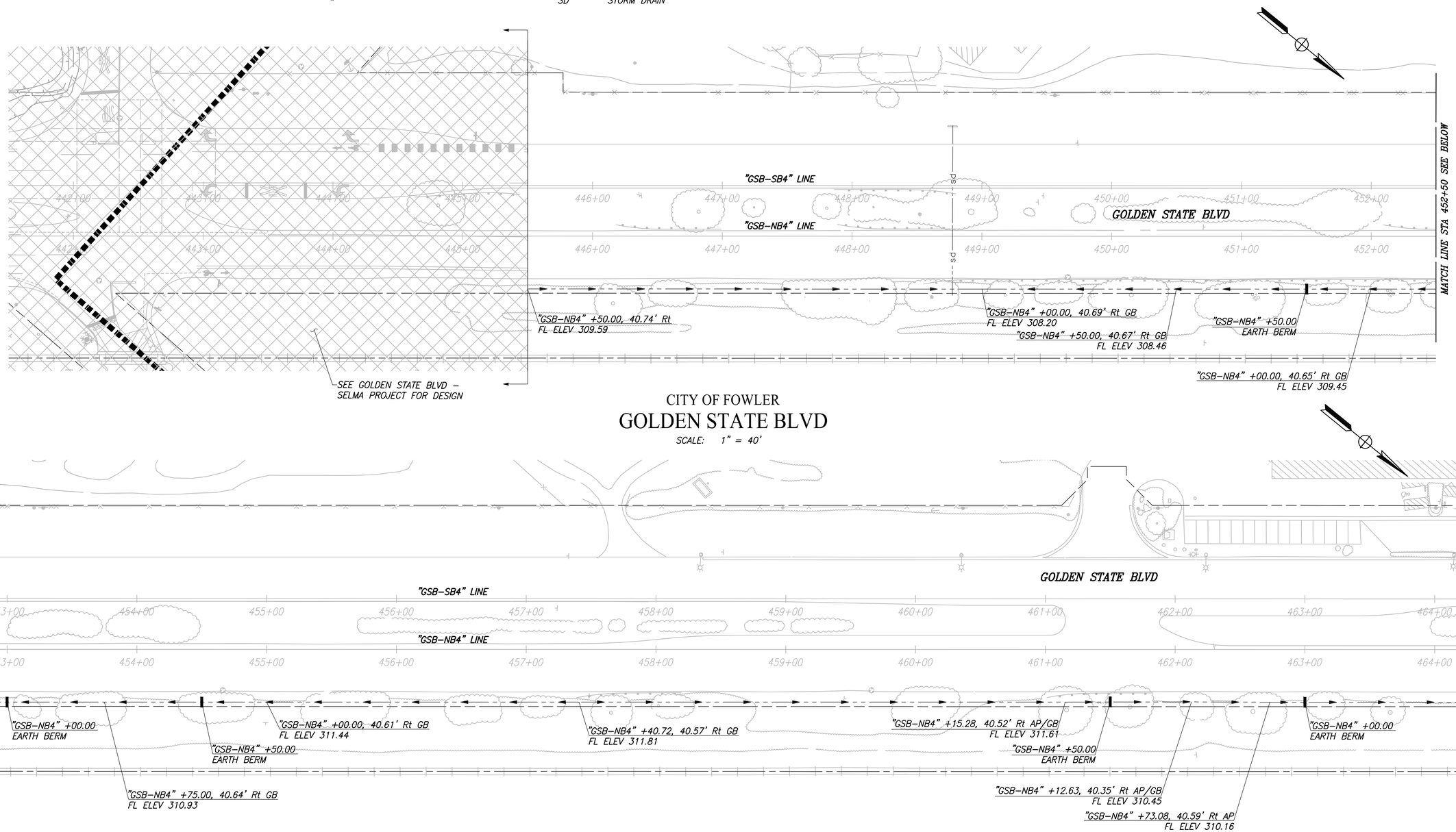
- DITCH FLOW LINE OR SWALE
- EXISTING Culv/PIPE
- PROPOSED Culv/PIPE
- PROPOSED DI
- BERM BLOCK

ABBREVIATIONS

AP	ANGLE POINT
CULV	CULVERT
DI	DRAINAGE INLET
GB	GRADE BREAK
MH	MANHOLE
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN

NOTES

1. RIGHT-OF-WAY INFORMATION IS AVAILABLE AT THE CITY OF FOWLER OFFICE.
2. EXISTING DRAINAGE LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS BEFORE MODIFYING EXISTING DRAINAGE FACILITIES.



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

RECORD PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 81255 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

DRAWING NO. D-1 SHEET NO. 59 TOTAL 142

PLOT DATE: 4/2/2021 8:27:04 AM CAD USER: EQHIN

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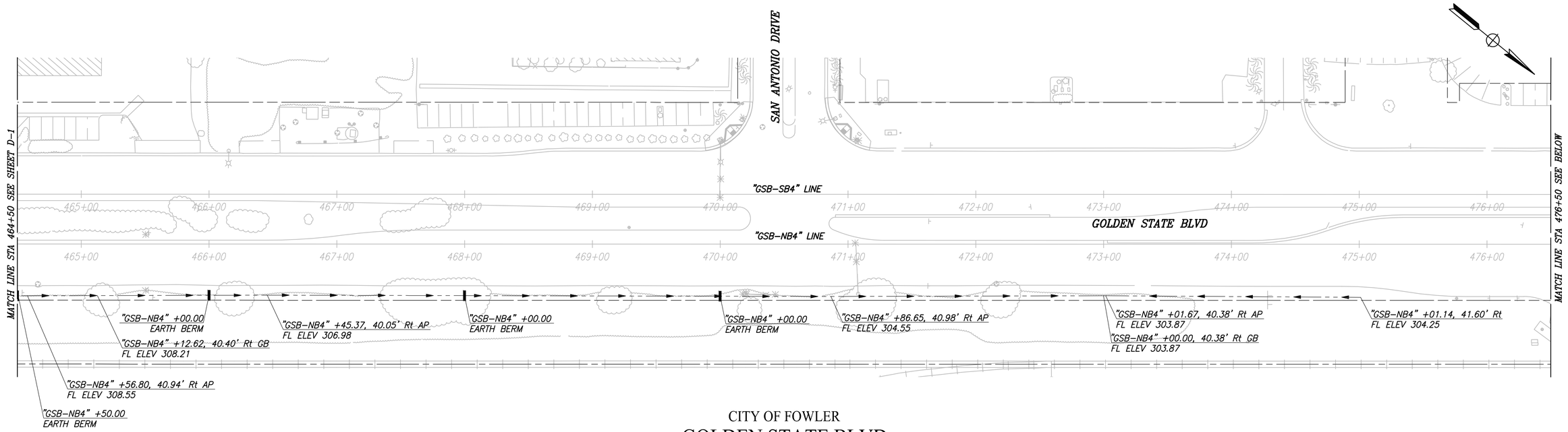
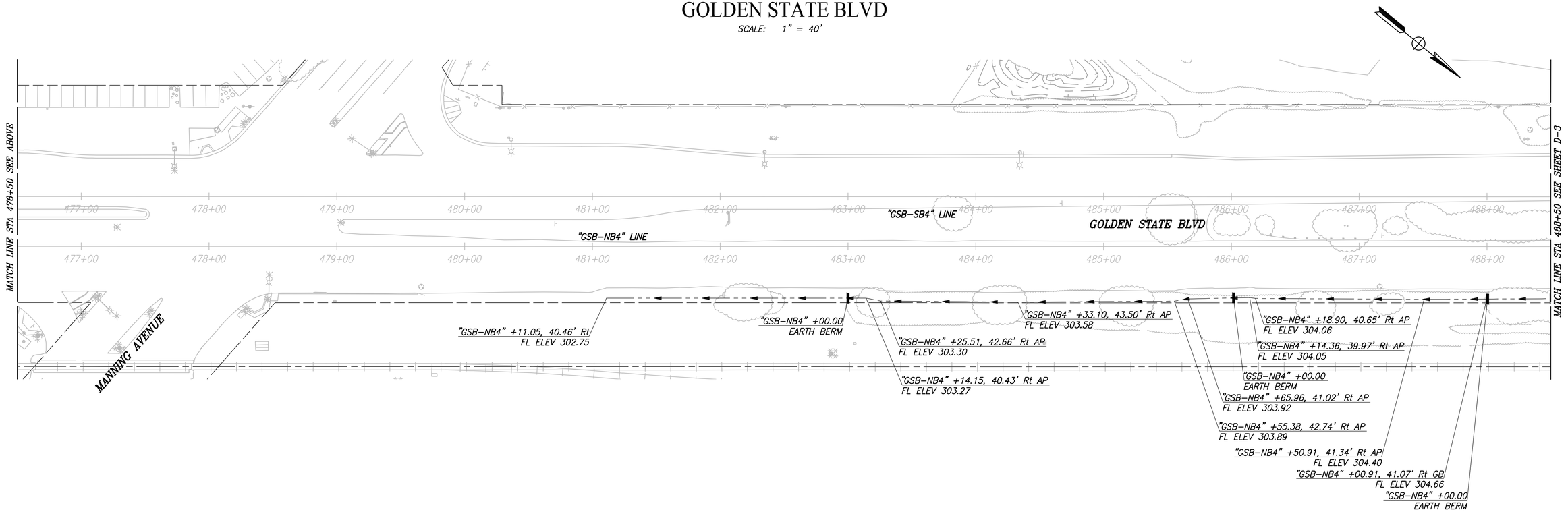


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STAMP REGISTERED PROFESSIONAL ENGINEER ERICA A. CORREIA No. C 85855 Exp. 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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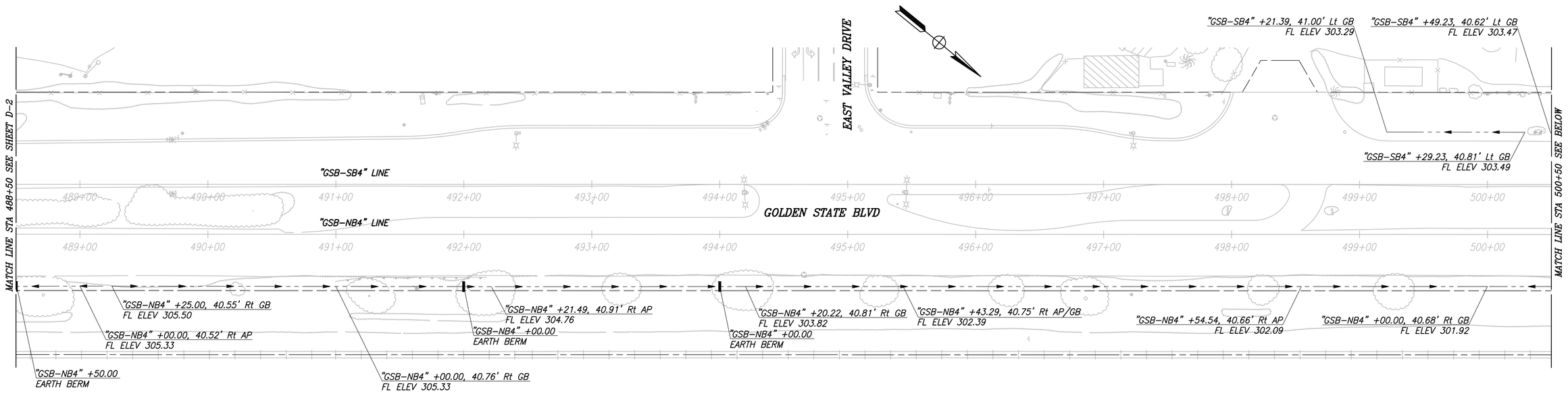
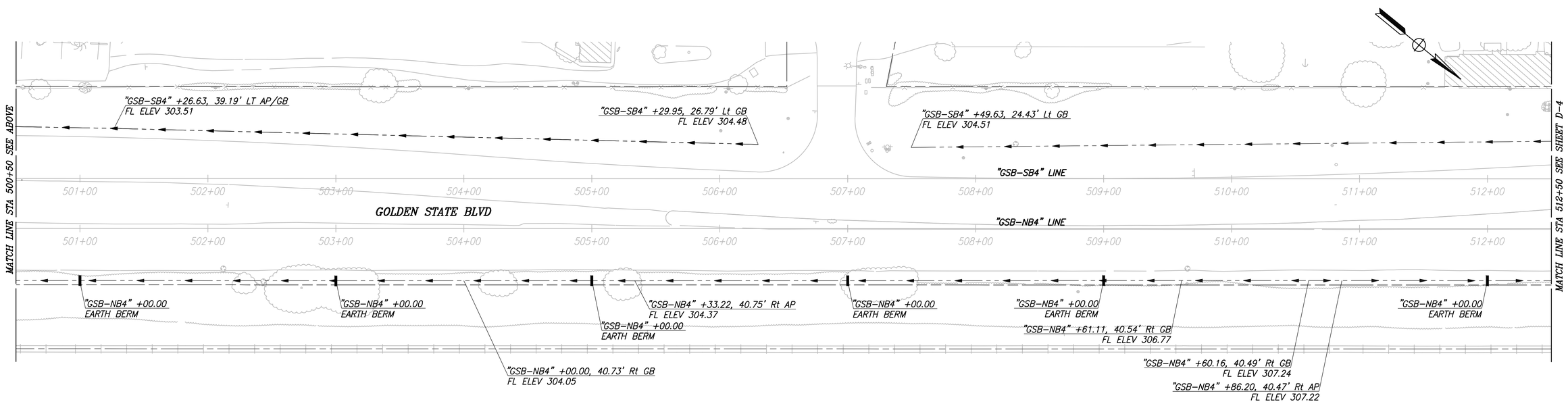


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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SUPERVISING ENGINEER DATE

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REGISTERED PROFESSIONAL ENGINEER ROCCO A. NORIEGA No. C 58355 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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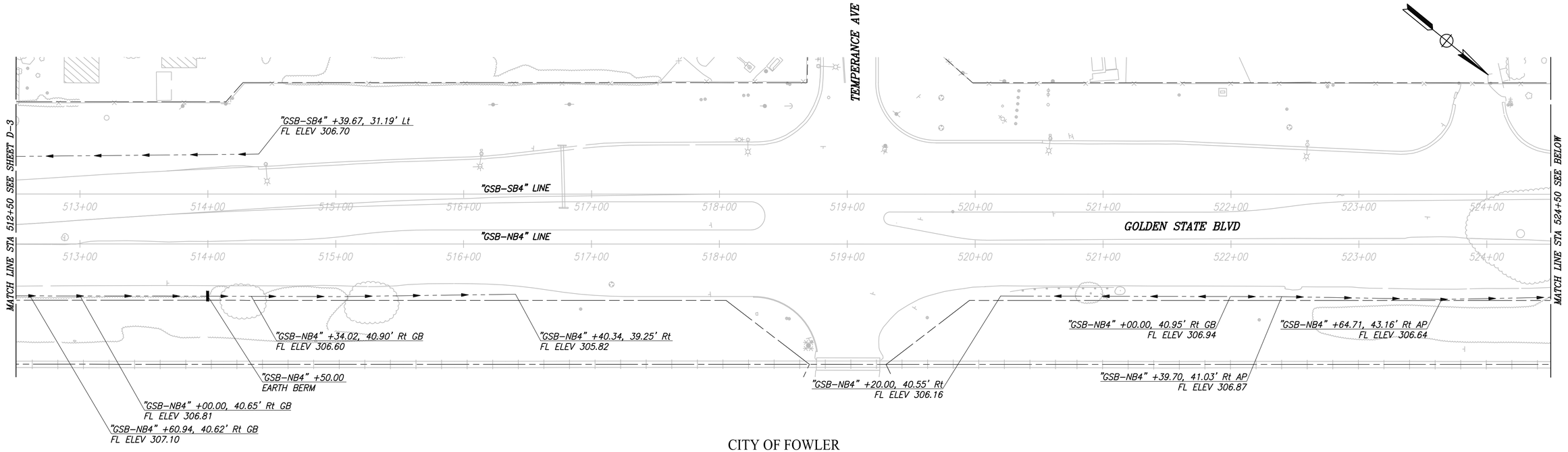
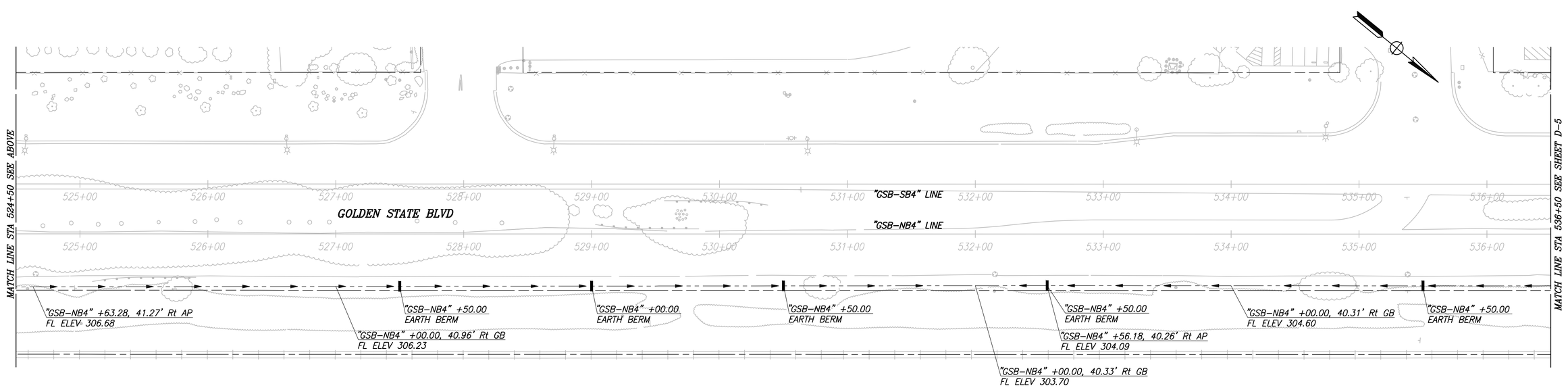


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ROCCO A. NORIEGA No. C 85555 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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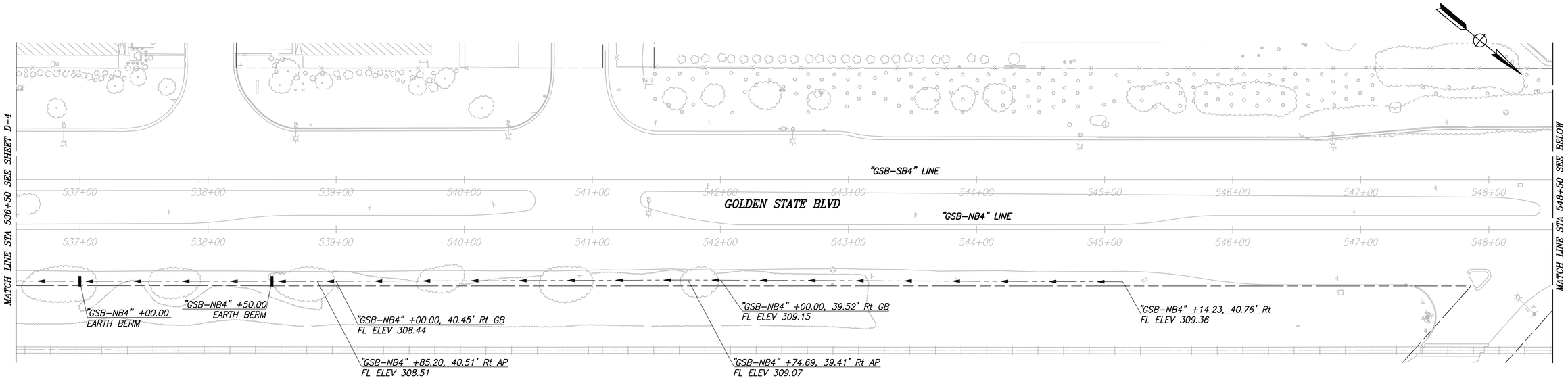
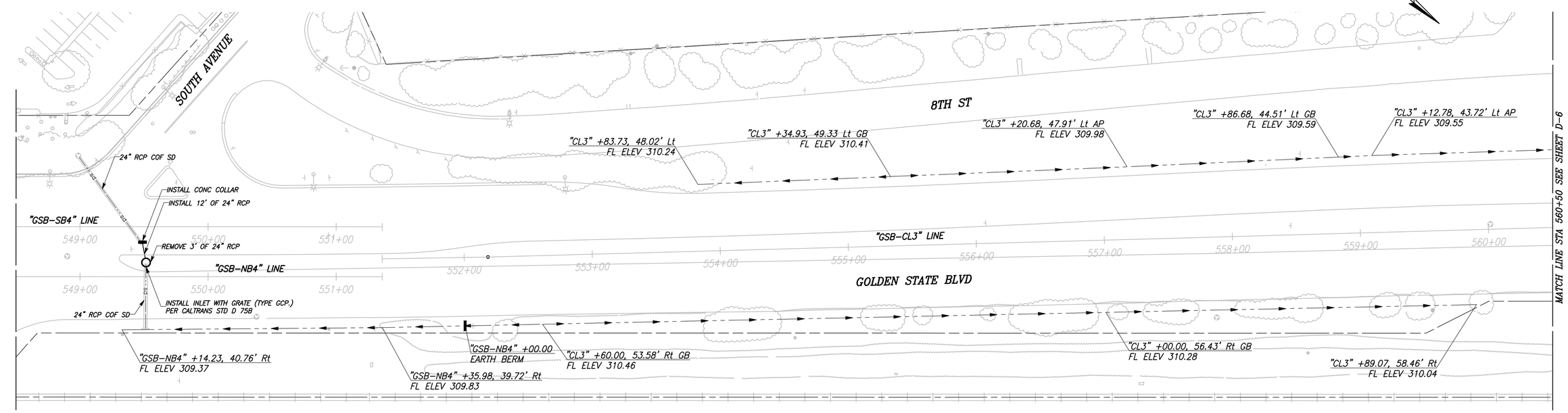


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER ERICA A. NORIEGA No. 85555 7/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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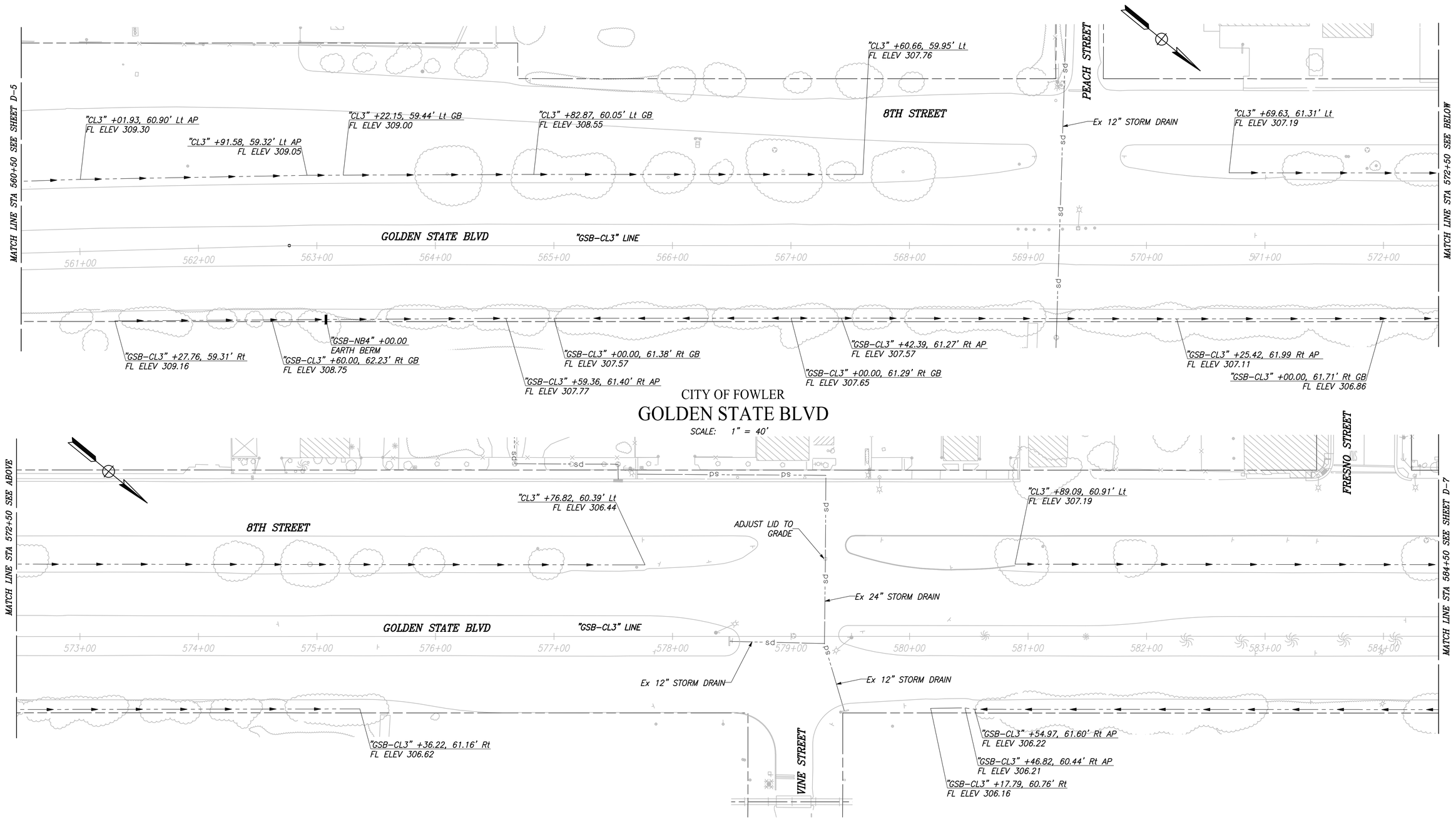

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN STUDIES

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ERICA A. NORIEGA C 85555 4/30/21 CIVIL STATE OF CALIFORNIA

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GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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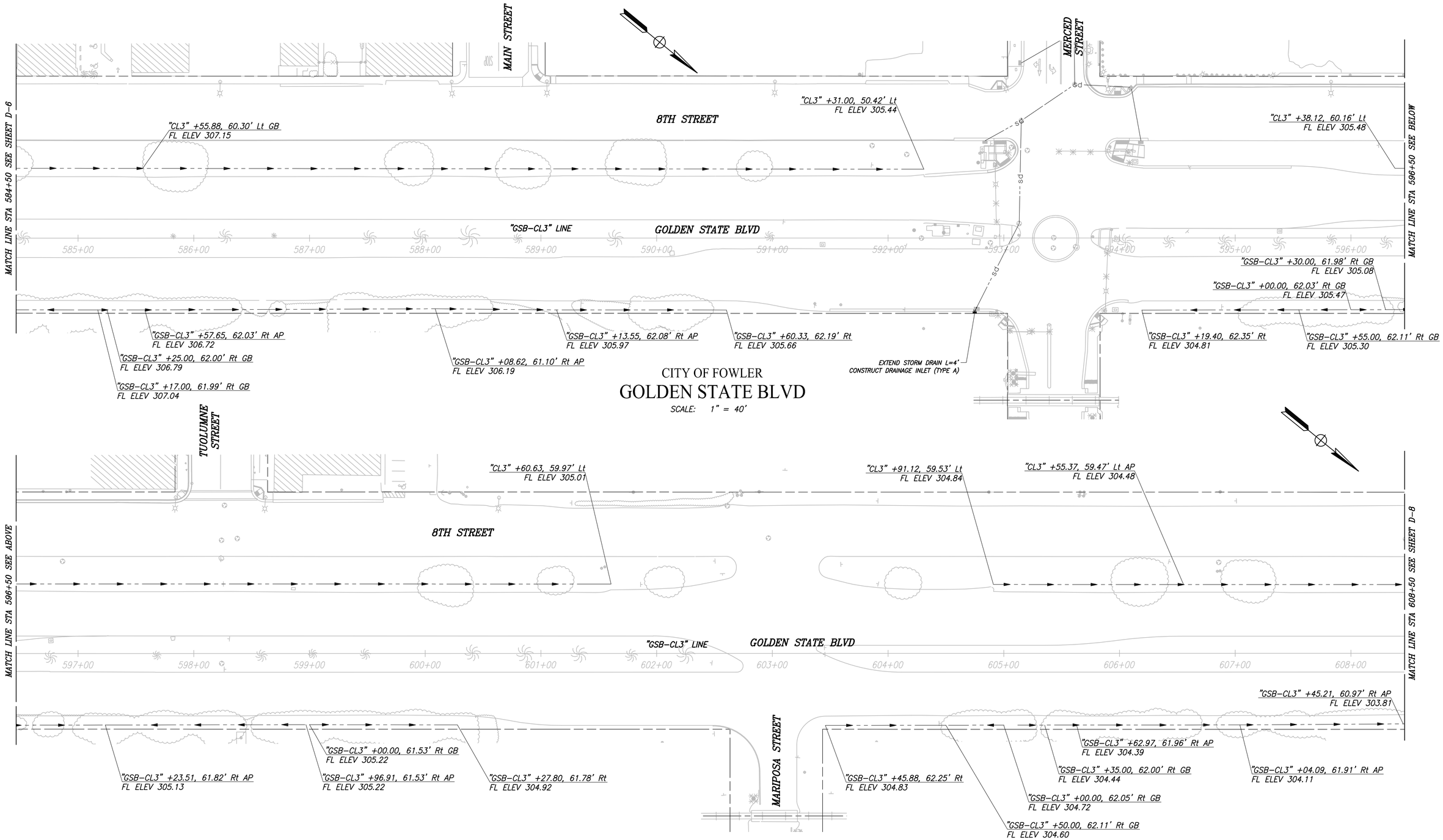

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
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CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN STUDIES

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ERICA A. NORIEGA 4/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

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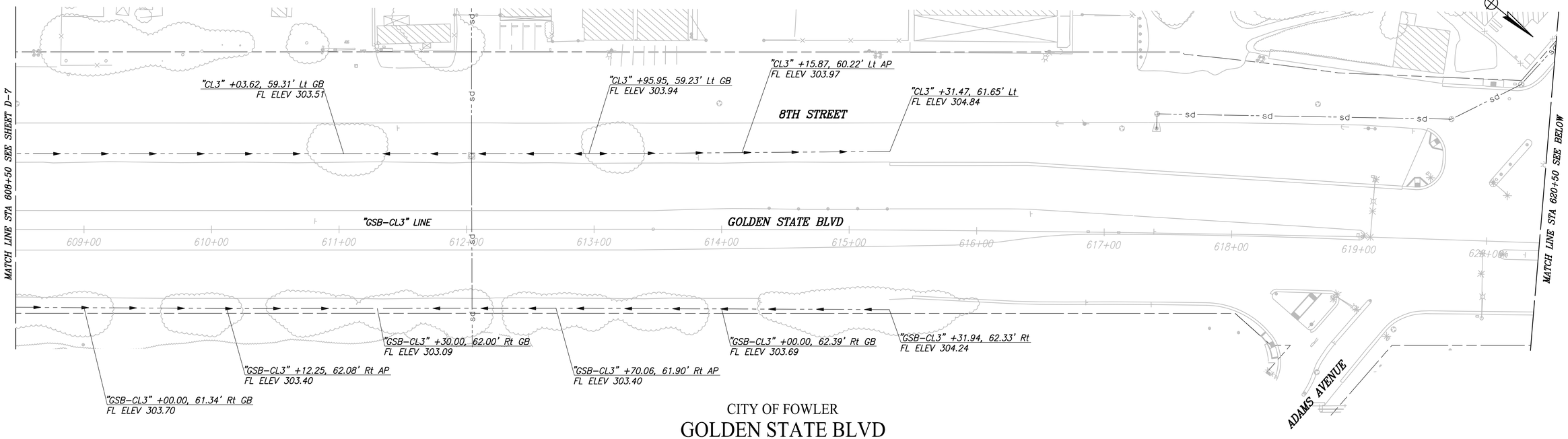
DRAINAGE PLAN

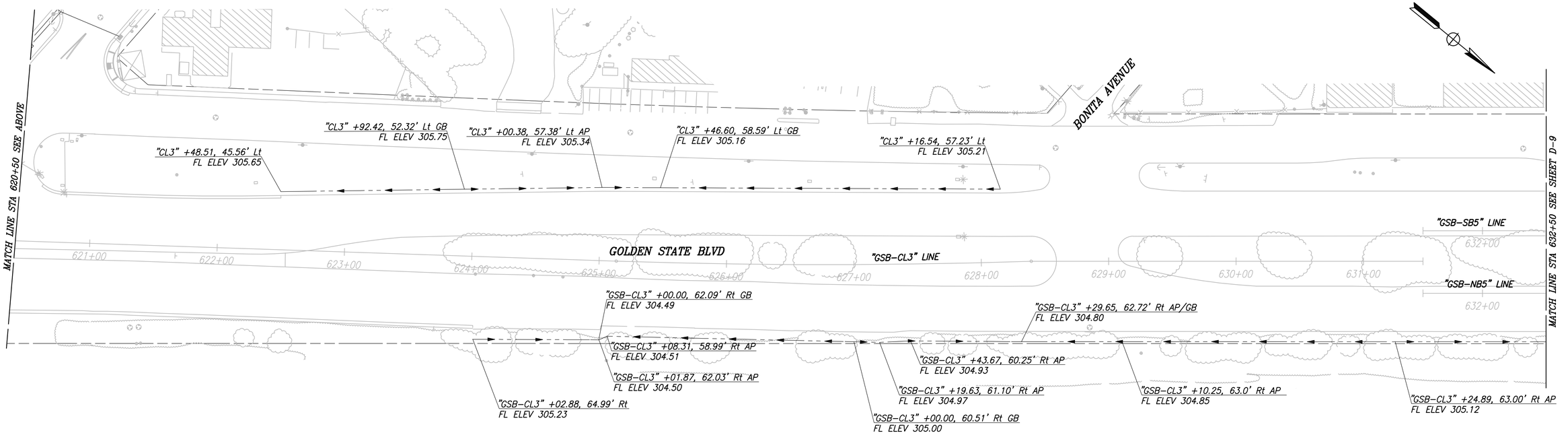
DRAWING NO. D-7 SHEET NO. 65 TOTAL 142



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ED A. NORIEGA 30/21 CIVIL STATE OF CALIFORNIA

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FOWLER REGION

THE CITY OF FOWLER-CALIFORNIA 1908

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DRAINAGE PLAN

DRAWING NO. D-8 SHEET NO. 66 TOTAL 142

PLOT DATE: 4/2/2021 8:31:26 AM CAD USER: NYANES

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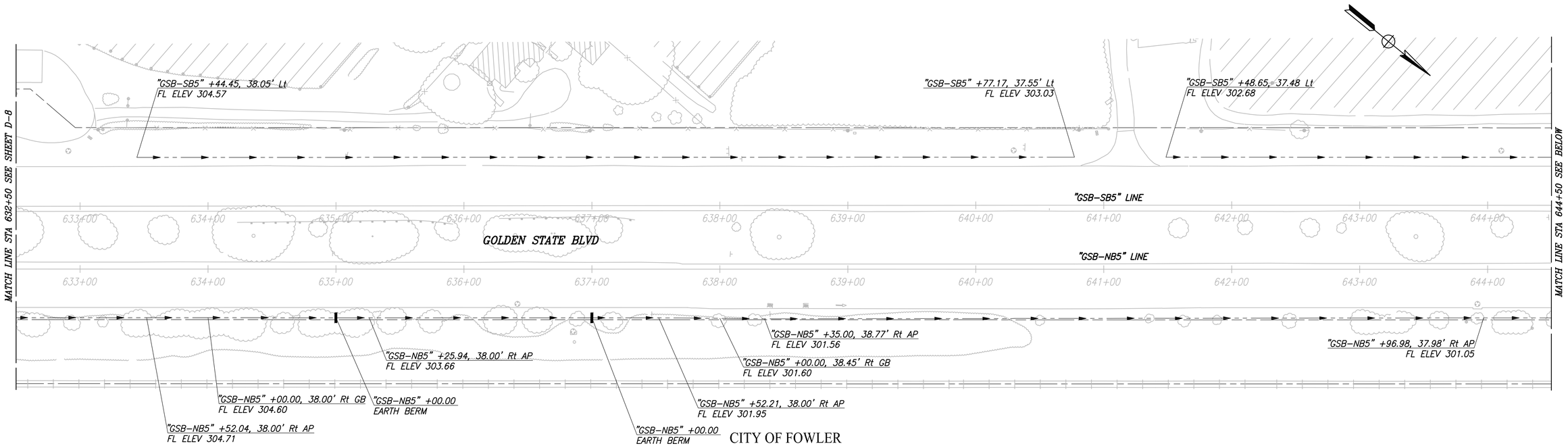
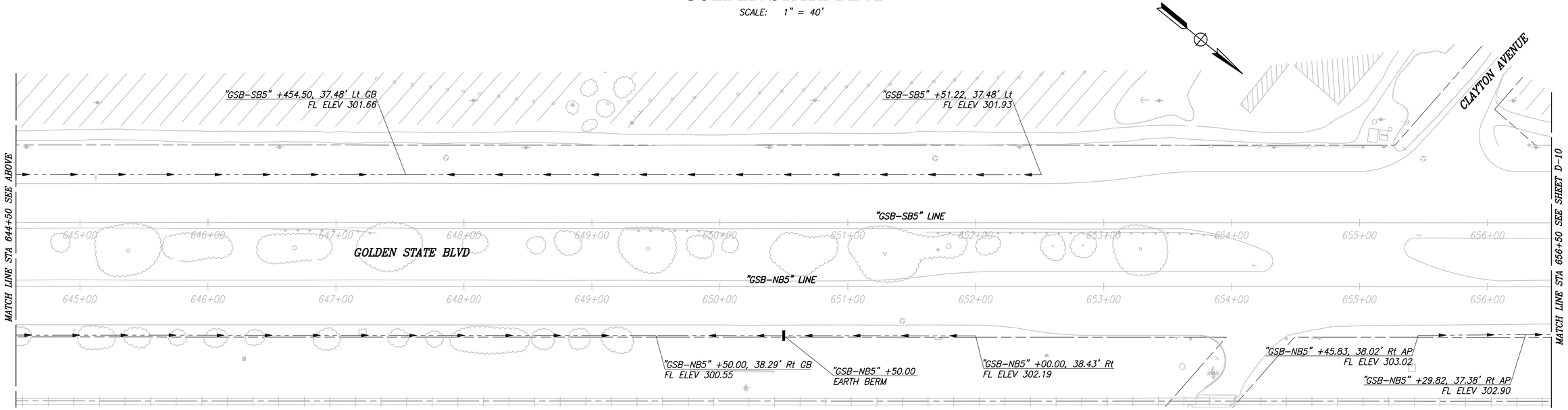


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 75555 7/20/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

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DRAINAGE PLAN

DRAWING NO. D-9 SHEET NO. 67 TOTAL 142

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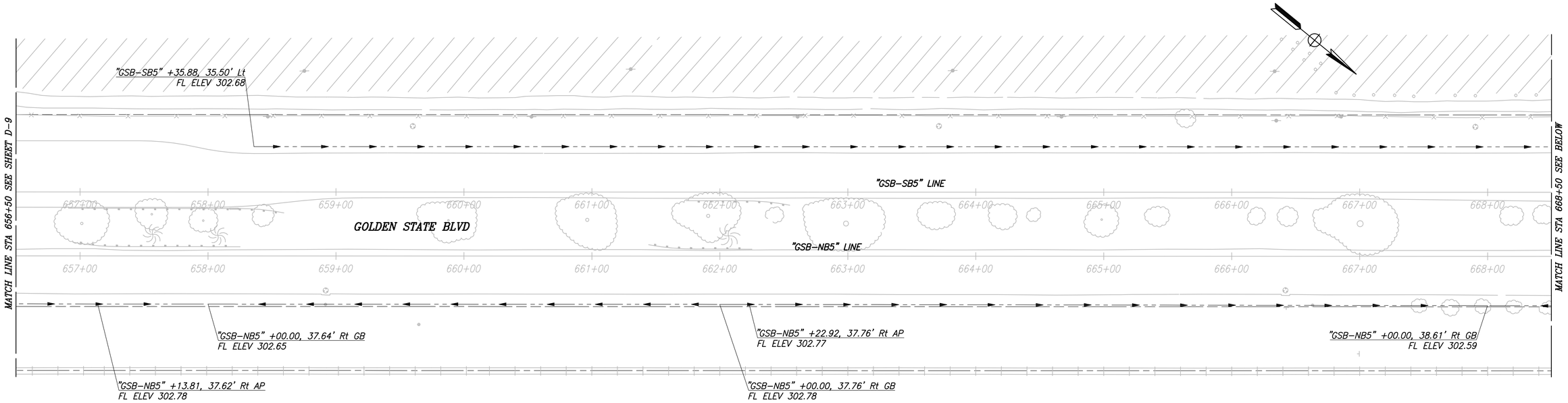
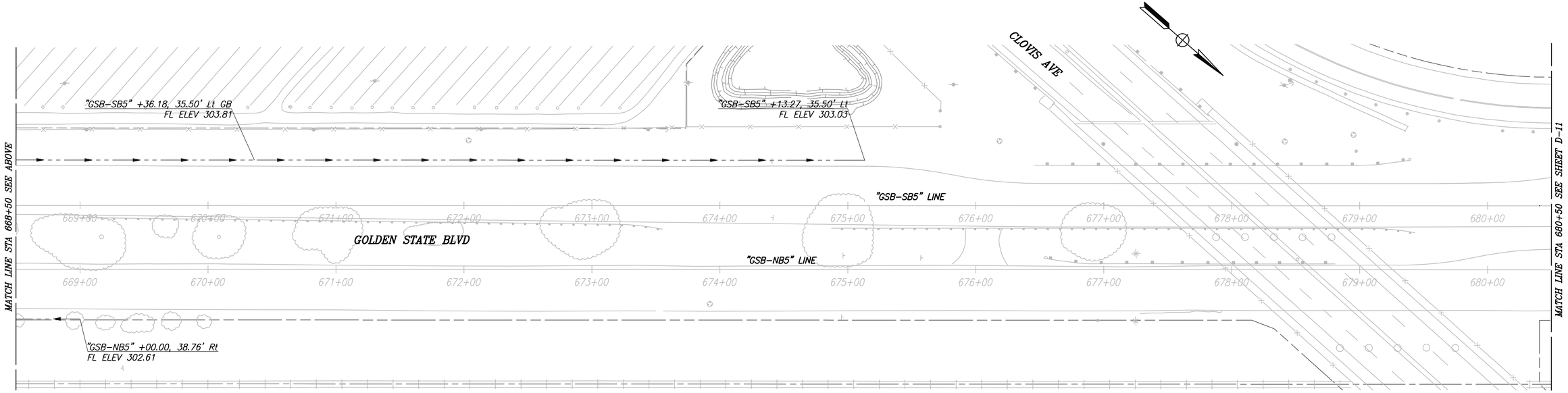


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

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PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER-CALIFORNIA 1908

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DRAINAGE PLAN

DRAWING NO. D-10 SHEET NO. 68 TOTAL 142

PLOT DATE:4/2/2021 8:32:11 AM CAD USER: NYANES

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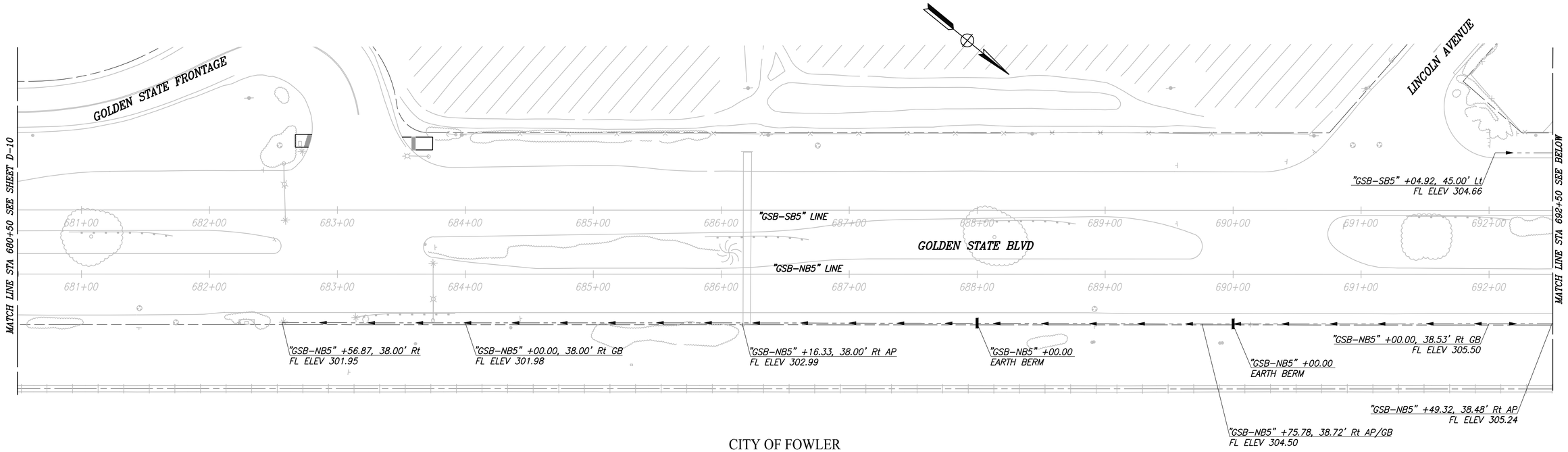
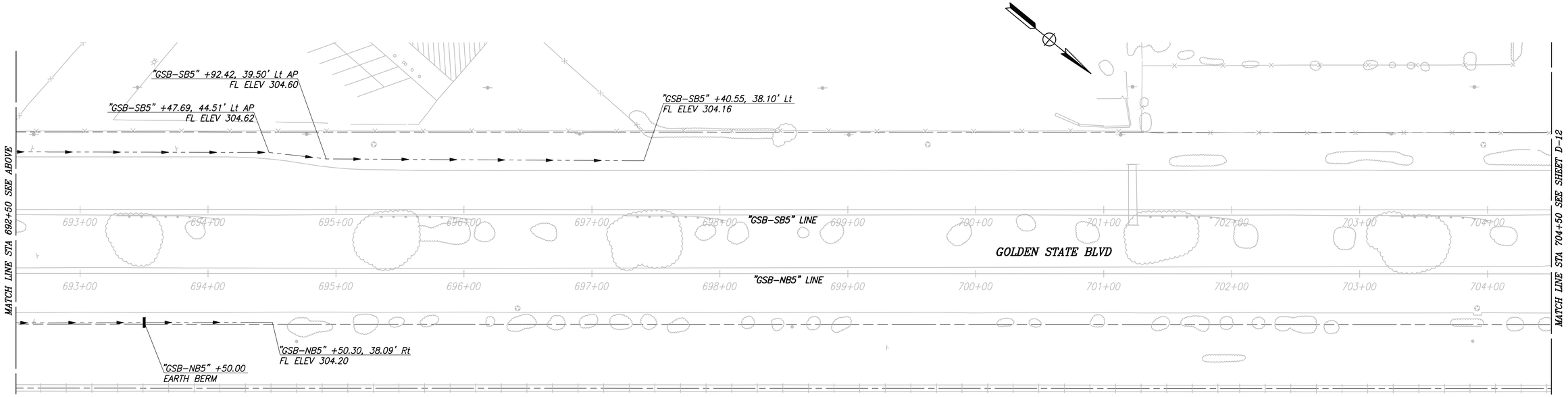


CITY OF FOWLER

GOLDEN STATE BLVD



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

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PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

DRAWING NO. D-11 SHEET NO. 69 TOTAL 142

PLOT DATE: 4/2/2021 8:32:34 AM CAD USER: NYANES

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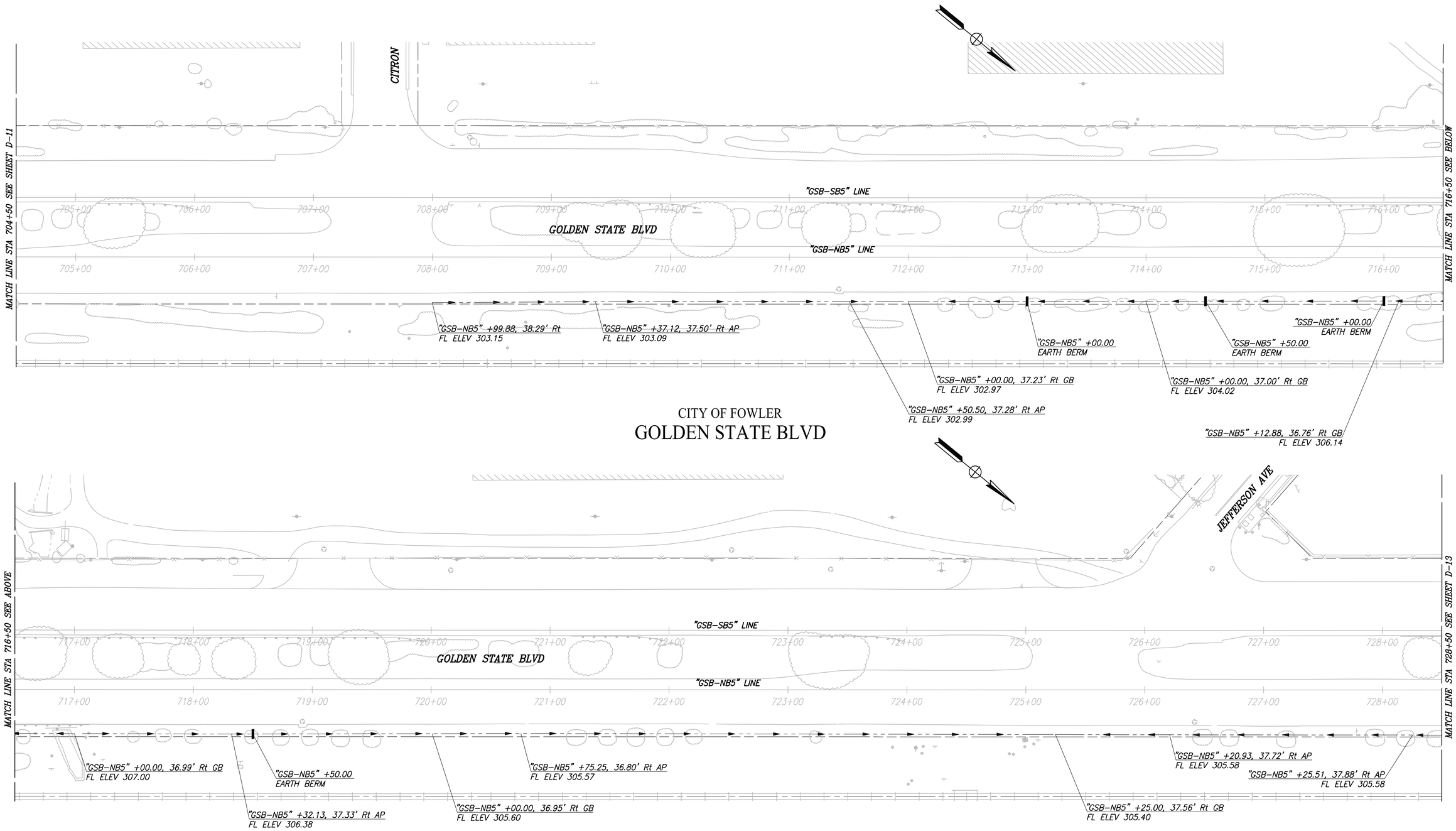

CITY OF FOWLER

GOLDEN STATE BLVD

PLOT DATE: 4/2/2021 8:33:00 AM CAD USER: NYANES

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	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER ERIK A. NORIEGA 3/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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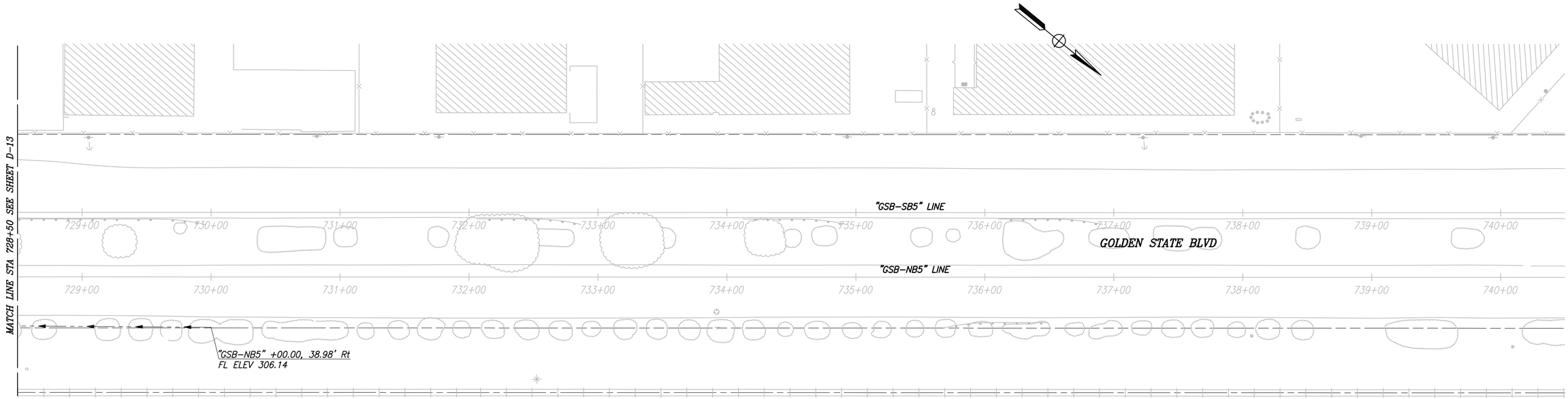

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

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	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOCAL A. LORIEGA No. C 85555 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

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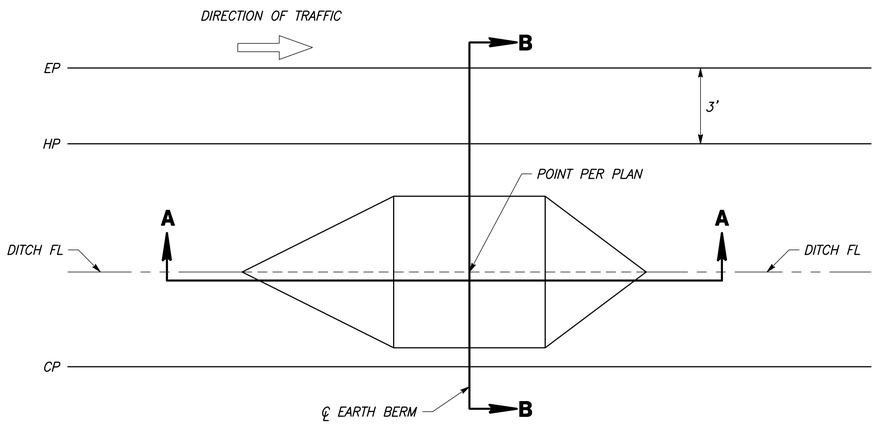
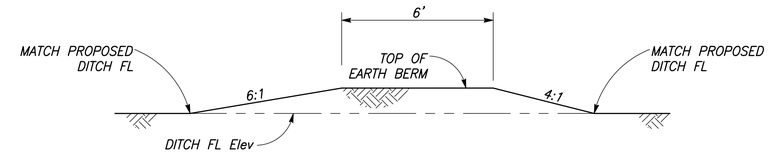
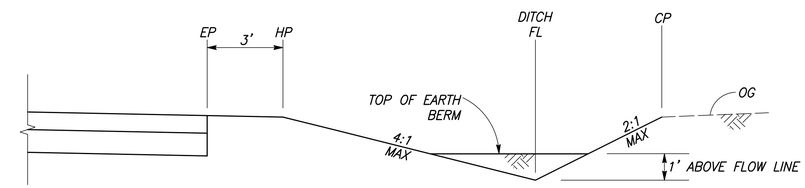


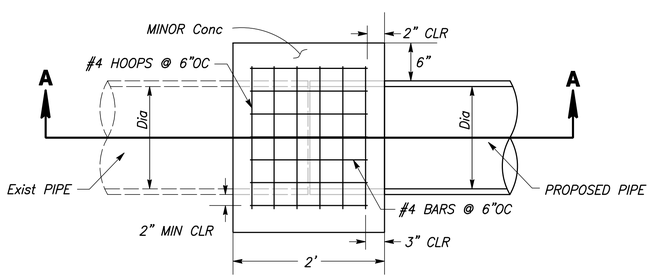


SECTION A-A

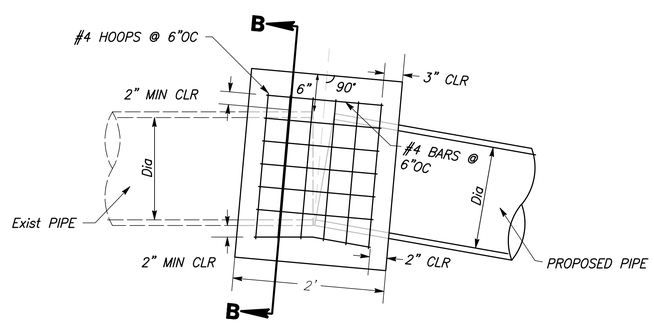


SECTION B-B

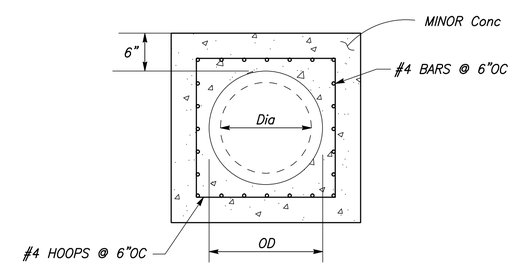
EARTH BERM



PLAN



SECTION A-A



SECTION B-B

NOTES:

1. JOIN PIPES AT INVERTS.

CONCRETE COLLAR

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSHUA A. MORENO No. C 87530 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

DRAINAGE PLAN

DRAWING NO. DD-1 SHEET NO. 72 TOTAL 142

PLOT DATE: 4/2/2021 9:09:56 AM CAD USER: ECHIN

PATH: J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_DD1.dwg

LEGEND

e (oh)	(E)ELECTRIC OVERHEAD
g	(E)GAS
s s	(E)SEWER
sd	(E)STORM DRAIN
w	(E)WATER
t	(E)TELECOM
fo	(E)FIBER OPTIC
irr	(E)IRRIGATION

ABBREVIATIONS

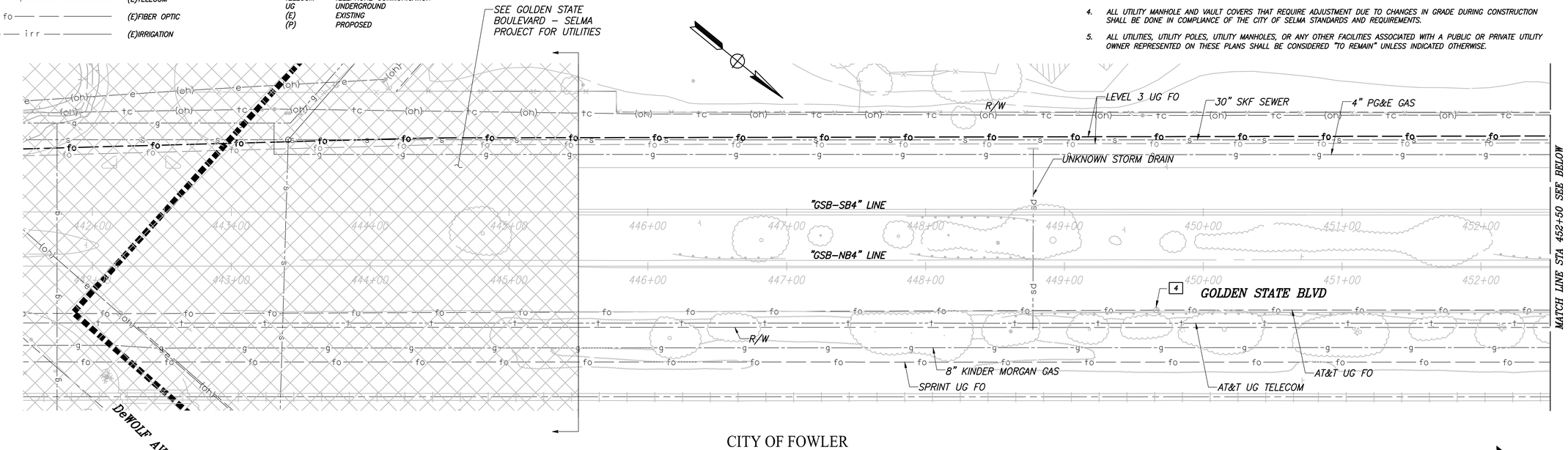
ATT	AMERICAN TELEPHONE AND TELEGRAPH
COF	CITY OF FOWLER
COK	CITY OF KINGSBERG
COS	CITY OF SELMA
FO	FIBER OPTIC
IRR	IRRIGATION
NATGAS	NATURAL GAS
OH	OVER HEAD
PGE	PACIFIC GAS AND ELECTRIC
SD	STORM DRAIN
STA	STATION
TELECOM	TELEPHONE COMMUNICATION
UG	UNDERGROUND
(E)	EXISTING
(P)	PROPOSED

UTILITY NOTES:

1. ADJUST (E) WATER VALVE TO GRADE
2. ADJUST (E) STORM DRAIN MH TO GRADE
3. ADJUST (E) SEWER MH TO GRADE
4. ADJUST (E) COMM MH TO GRADE

NOTES

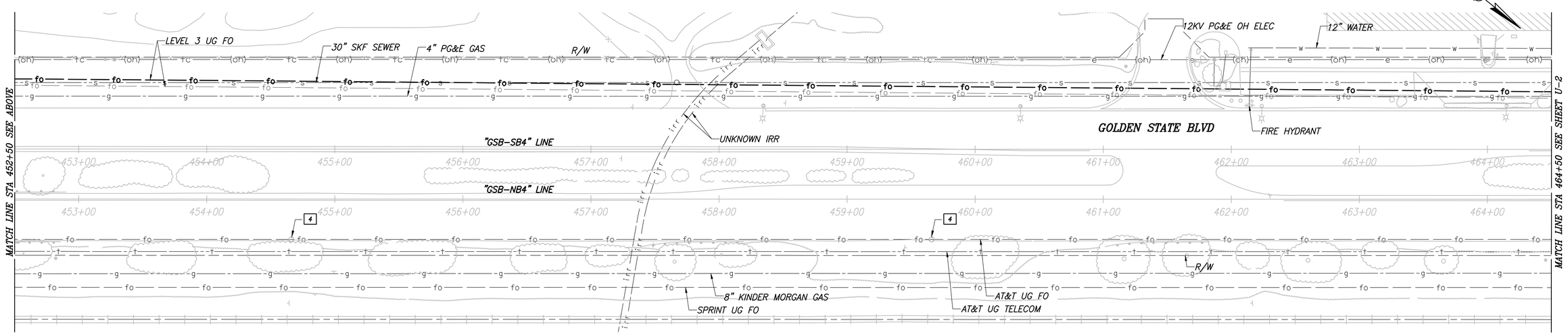
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES 48 HOURS PRIOR TO WORKING AROUND ANY OF THEIR UNDERGROUND UTILITIES FOR VERIFICATION AT THE SITE OF ANY POSSIBLE CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
2. THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE CITY OF SELMA AND ITS CONSULTANT, MARK THOMAS & COMPANY INC., CAN NOT ASSUME THE RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UTILITIES NOR THE EXISTENCE OF OTHER BURIED OBJECTS OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS.
3. FOR UTILITY CONTACT INFORMATION SEE SHEET G-1.
4. ALL UTILITY MANHOLE AND VAULT COVERS THAT REQUIRE ADJUSTMENT DUE TO CHANGES IN GRADE DURING CONSTRUCTION SHALL BE DONE IN COMPLIANCE OF THE CITY OF SELMA STANDARDS AND REQUIREMENTS.
5. ALL UTILITIES, UTILITY POLES, UTILITY MANHOLES, OR ANY OTHER FACILITIES ASSOCIATED WITH A PUBLIC OR PRIVATE UTILITY OWNER REPRESENTED ON THESE PLANS SHALL BE CONSIDERED "TO REMAIN" UNLESS INDICATED OTHERWISE.



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STAMP: REGISTERED PROFESSIONAL ENGINEER ED NORIEGA No. 76556 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-1 SHEET NO. 73 TOTAL 142

PLOT DATE: 4/2/2021 8:35:10 AM CAD USER: NYANES

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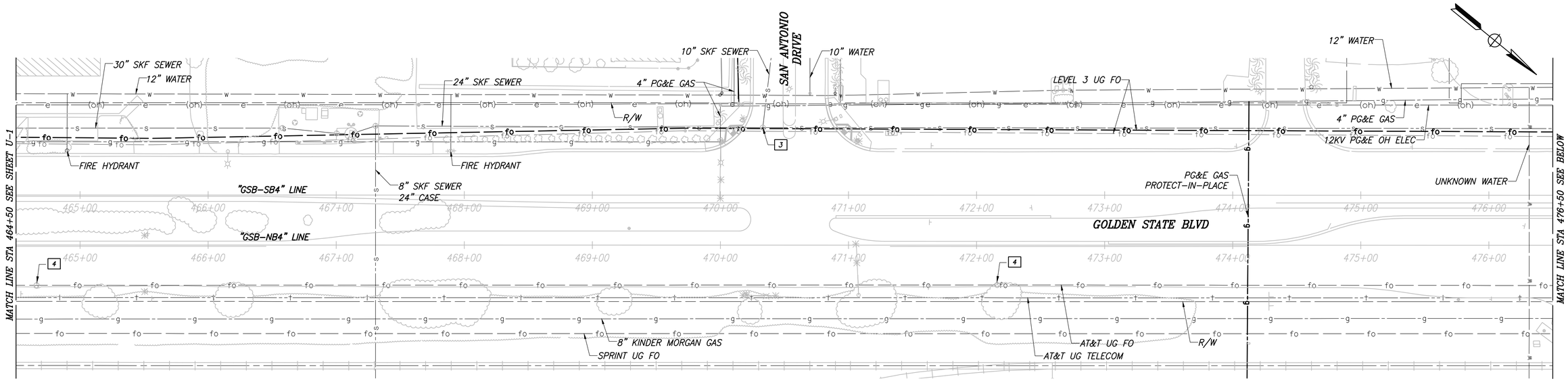
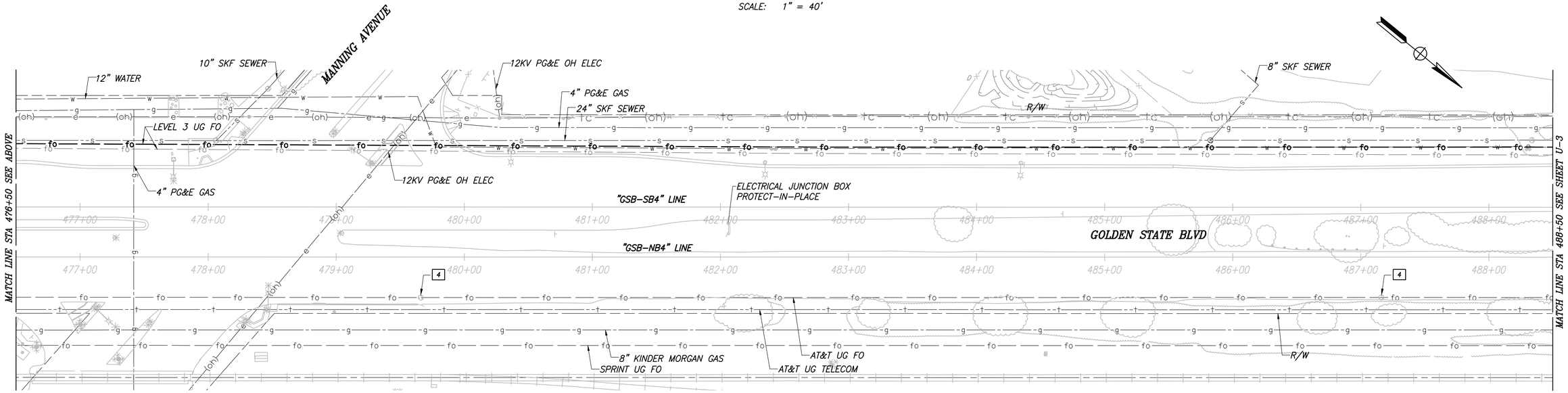


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ED NORIEGA 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-2 SHEET NO. 74 TOTAL 142

PLOT DATE: 4/2/2021 8:35:36 AM CAD USER: NYANES

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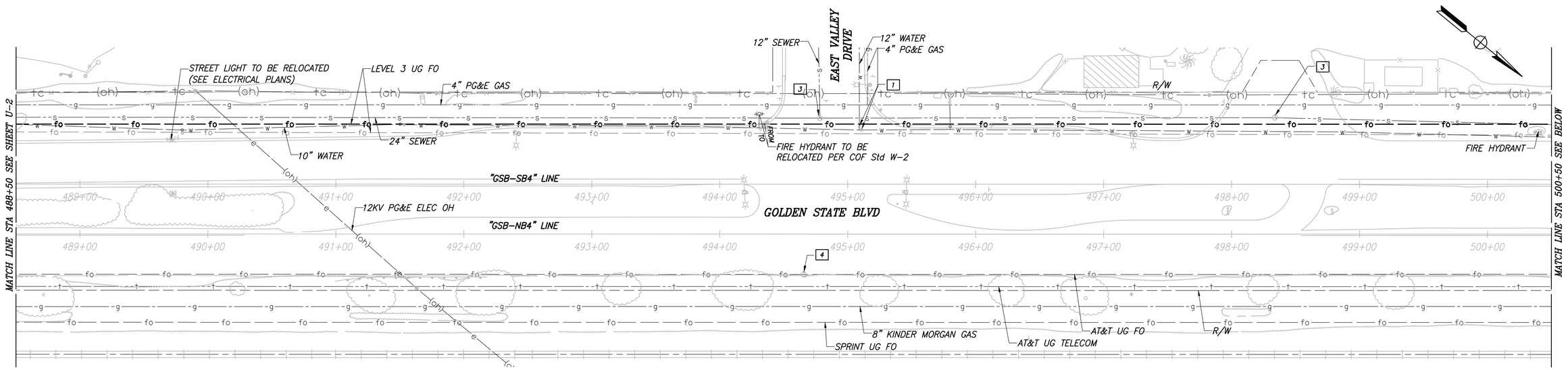

CITY OF FOWLER

GOLDEN STATE BLVD

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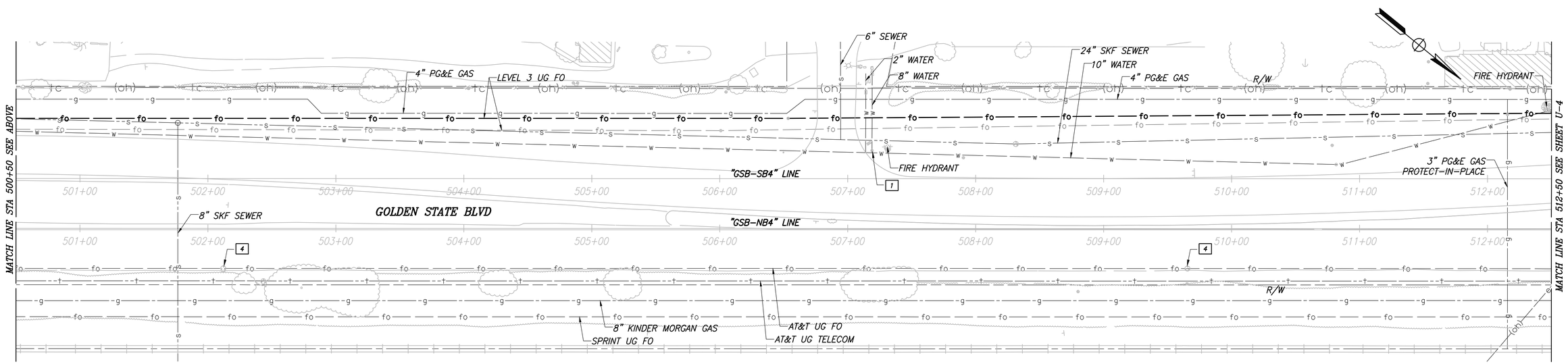

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
No. C 87535
Exp. 12/30/21
CIVIL
STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

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PLOT DATE: 4/2/2021 8:36:02 AM CAD USER: NYANES

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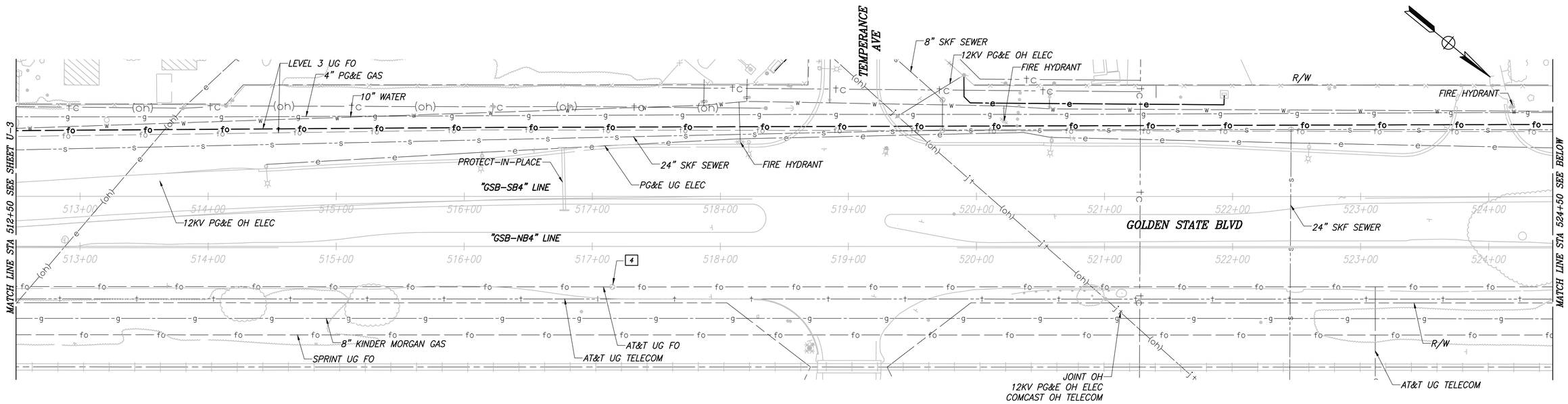

CITY OF FOWLER

GOLDEN STATE BLVD

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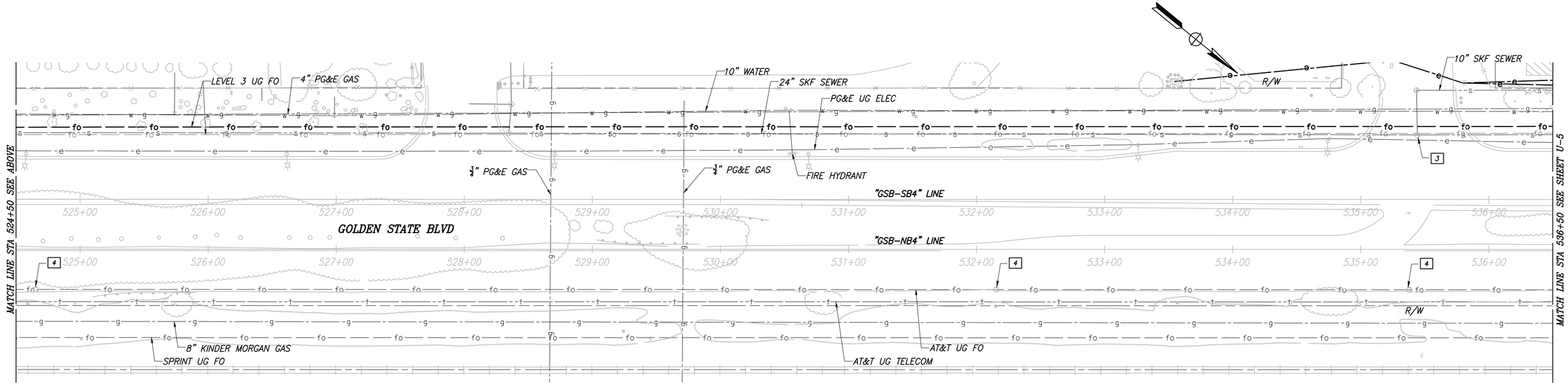

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

RECORDED PROFESSIONAL ENGINEER ROCCO A. MORESCO No. 85 9/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-4 SHEET NO. 76 TOTAL 142

PLOT DATE: 4/2/2021 8:36:23 AM CAD USER: NYANES

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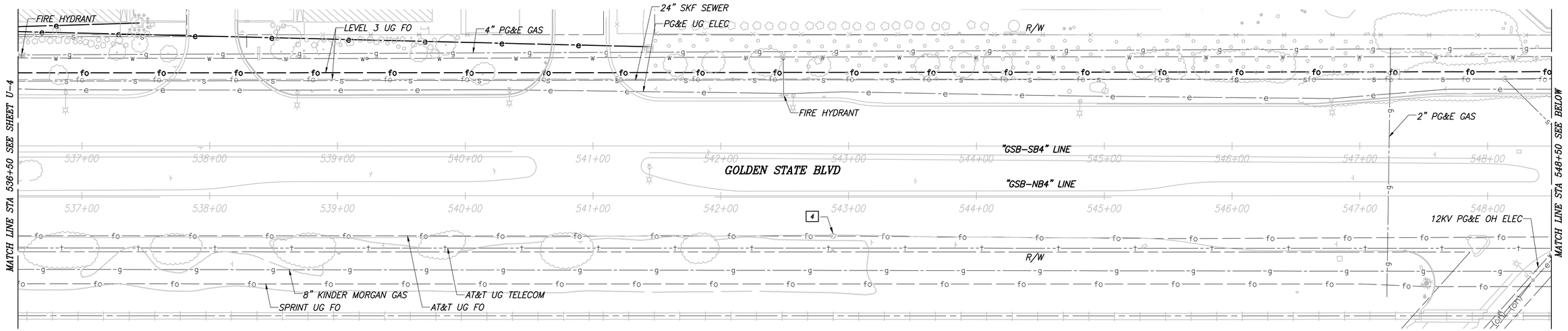
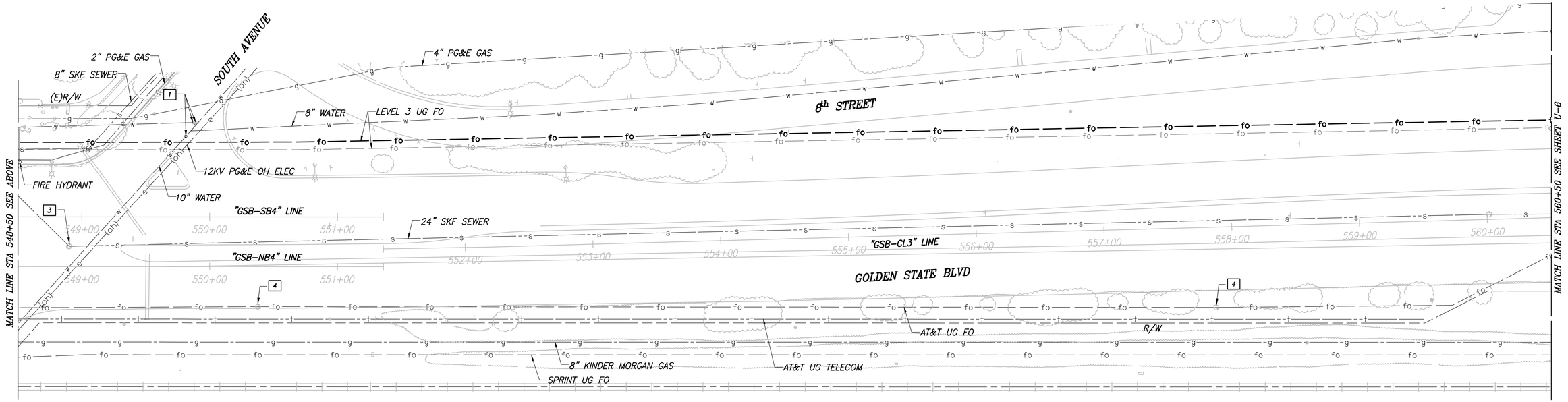


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ROGER A. MORENO No. C 57555 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

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PLOT DATE: 4/2/2021 8:36:45 AM CAD USER: NYANES

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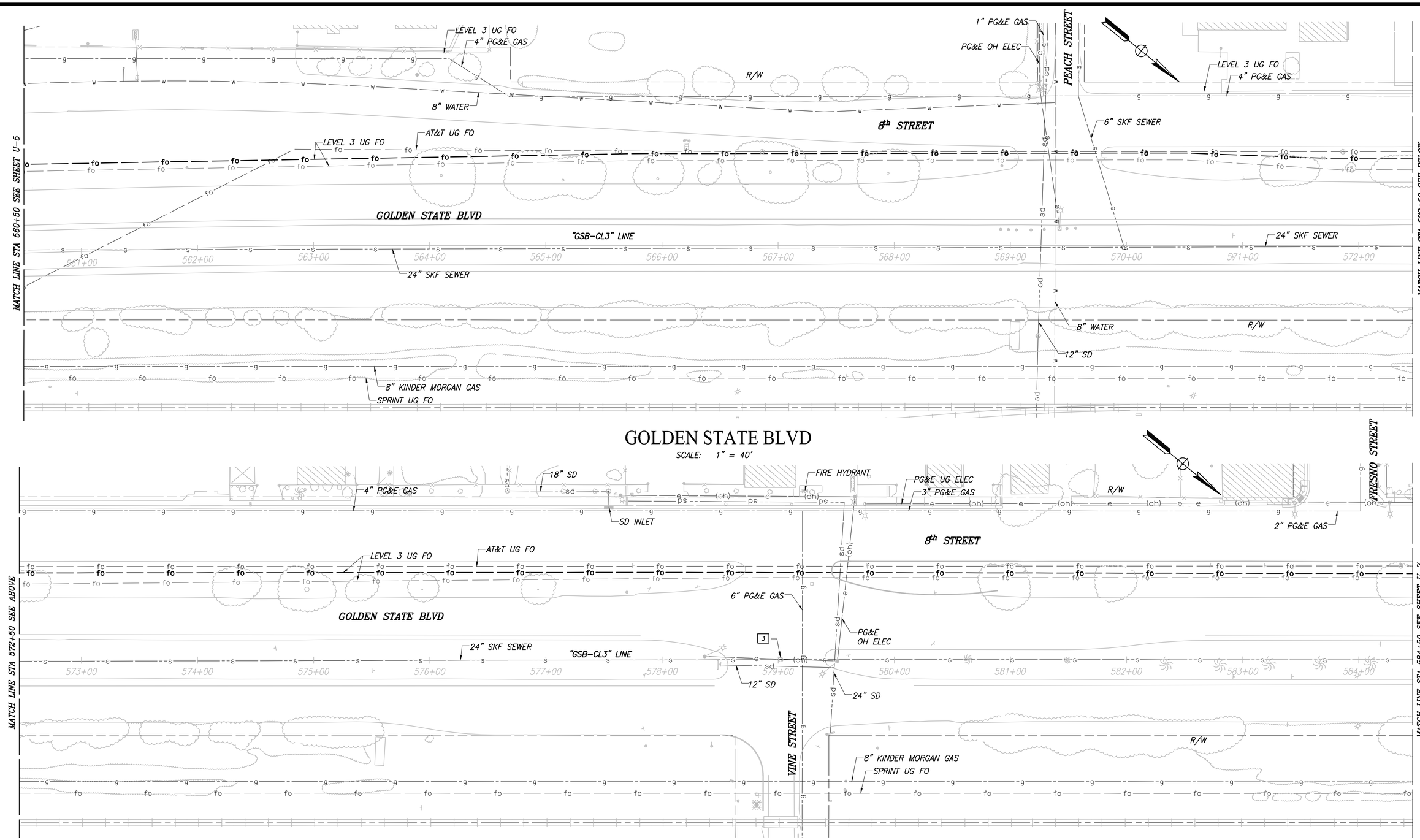

GOLDEN STATE BLVD

SCALE: 1" = 40'

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ERICA A. CORREIA No. C 85555 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-6 SHEET NO. 78 TOTAL 142

PLOT DATE:4/2/2021 8:37:09 AM CAD USER: NYANES

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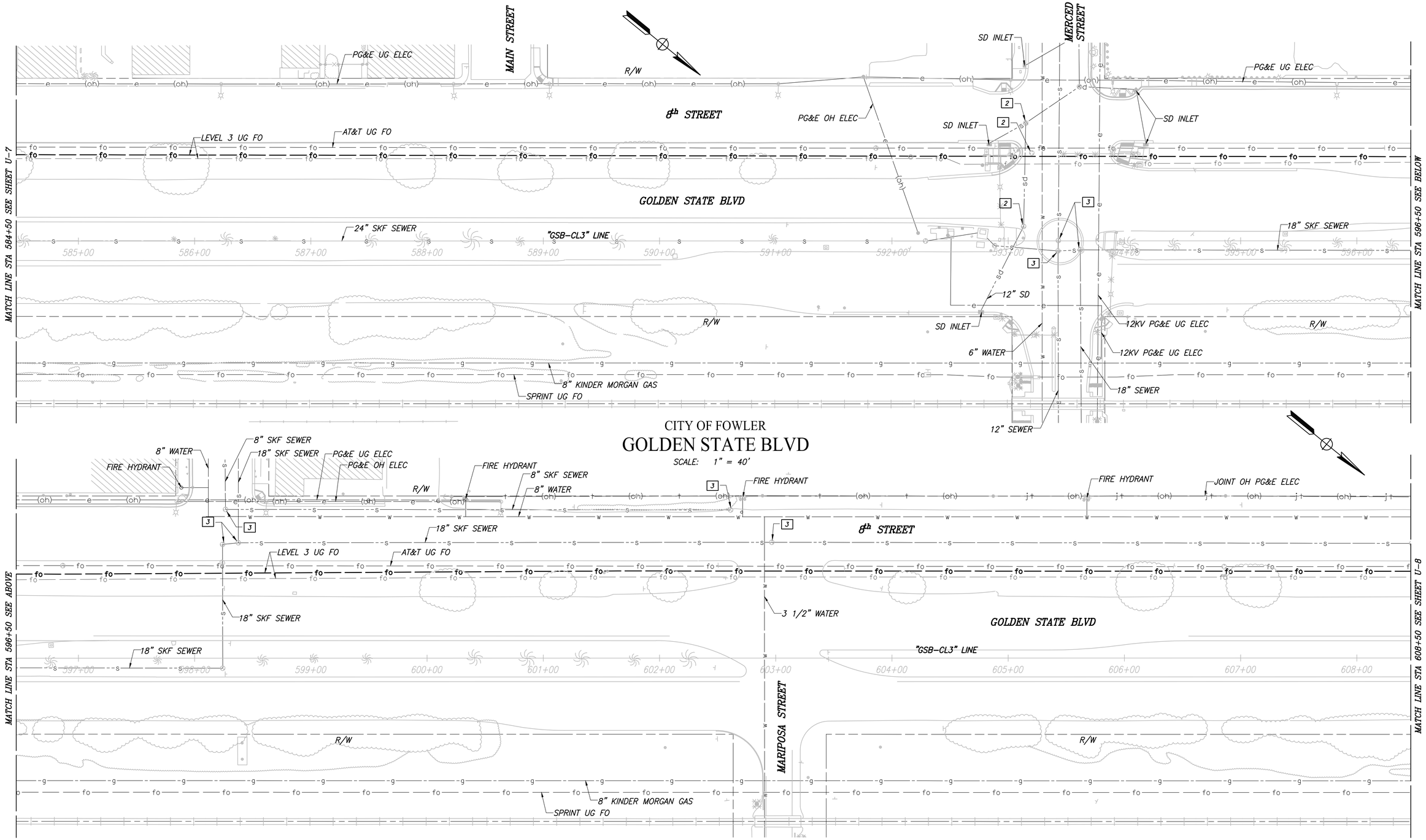

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

RECORDED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 55 3/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

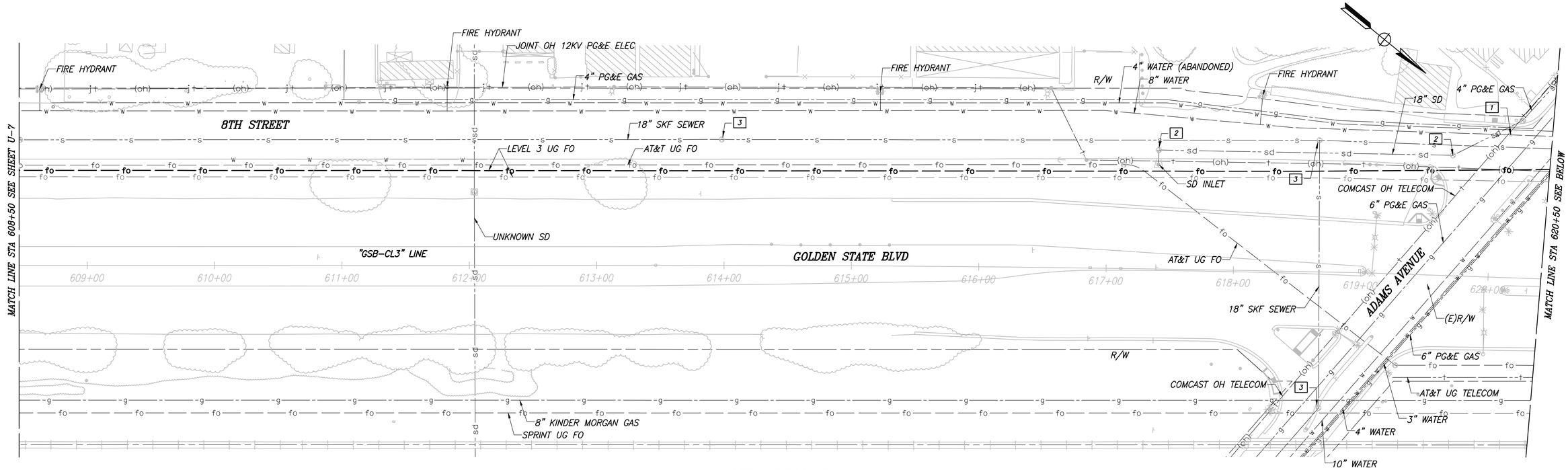
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

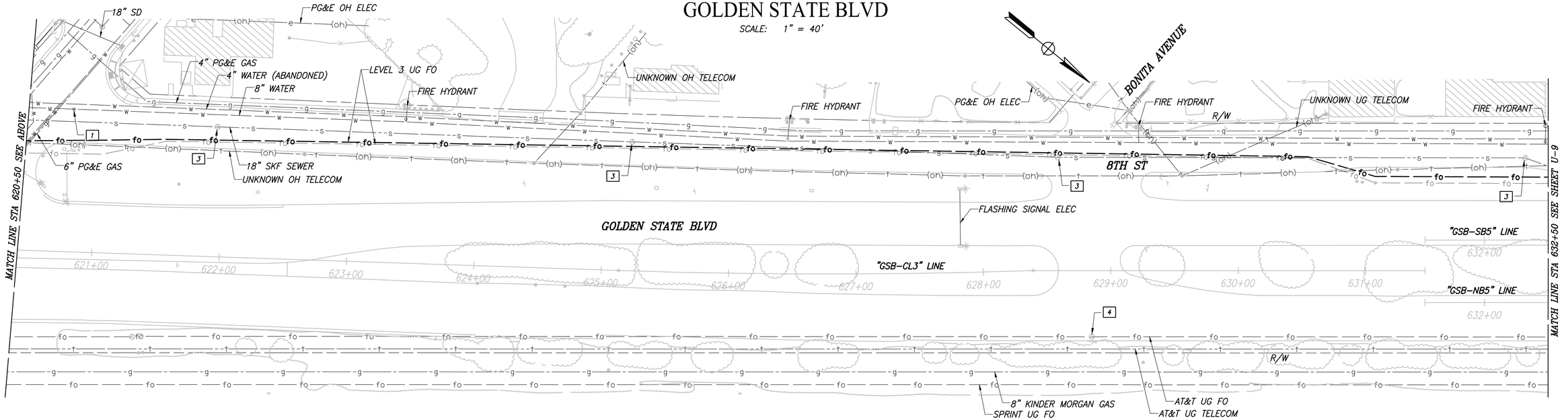
DRAWING NO. U-7 SHEET NO. 79 TOTAL 142



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ED NORIEGA No. 73830 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

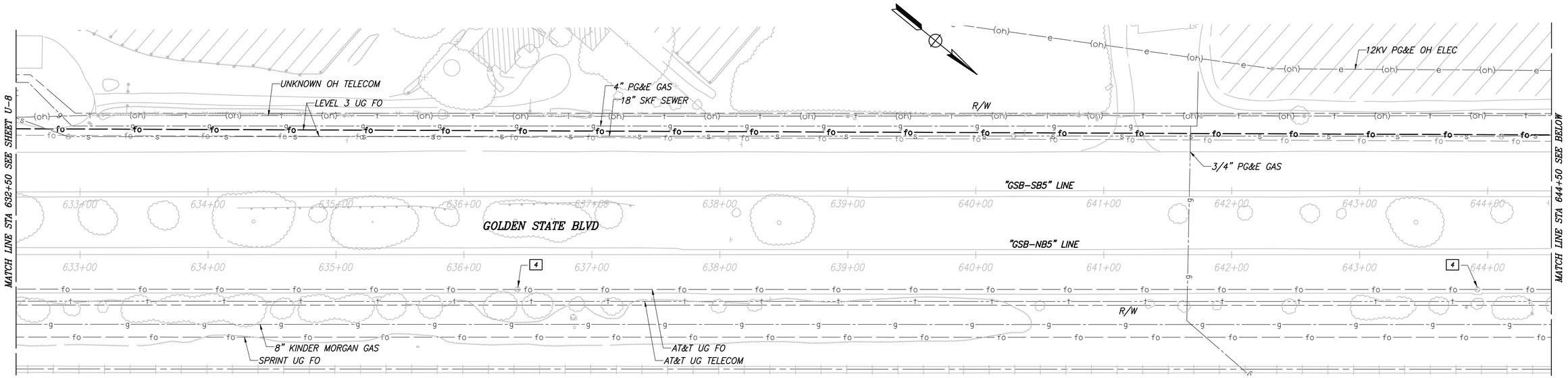
DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-8 SHEET NO. 80 TOTAL 142

PLOT DATE: 4/2/2021 8:38:32 AM CAD USER: NYANES

PATH: J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_U8-U14.dwg



CITY OF FOWLER

GOLDEN STATE BLVD

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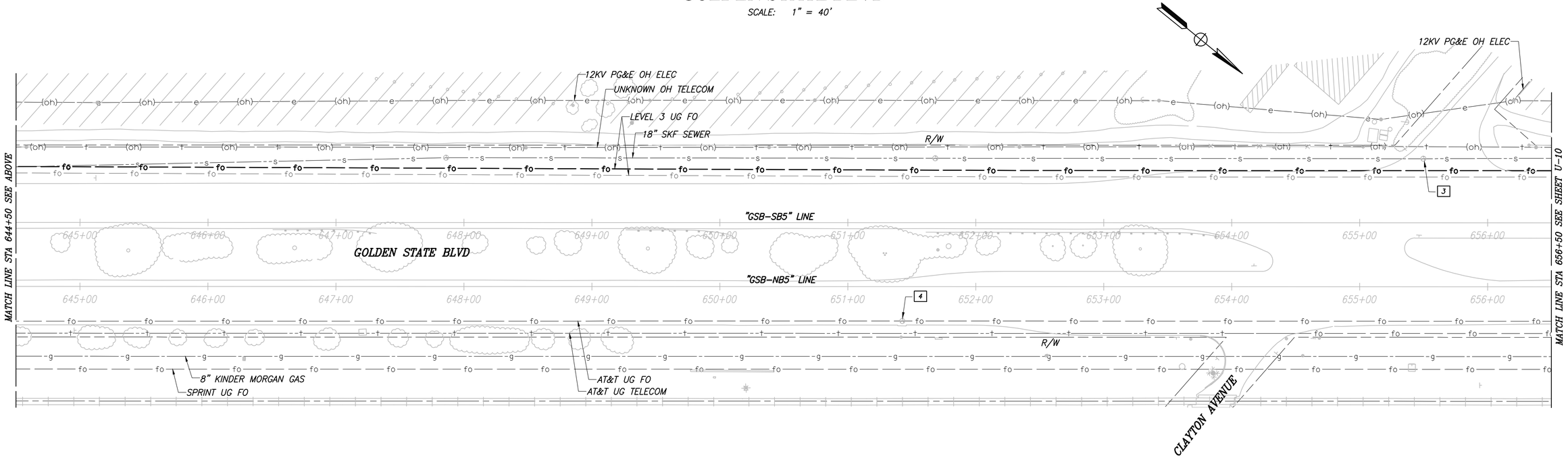

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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STEVEN A. MORIEGA No. 75555 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-9 SHEET NO. 81 TOTAL 142

PLOT DATE: 4/2/2021 8:38:55 AM CAD USER: NYANES

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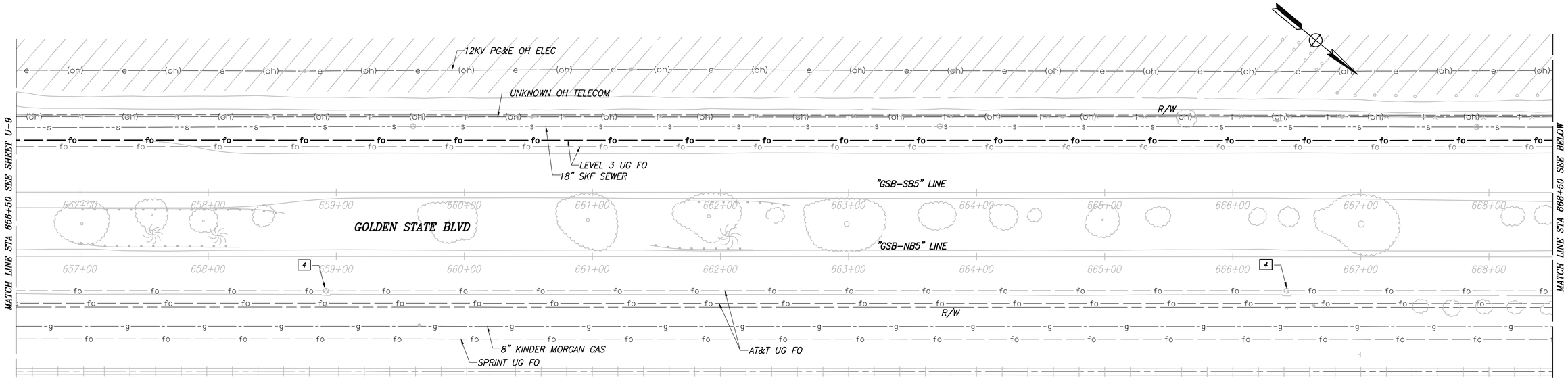
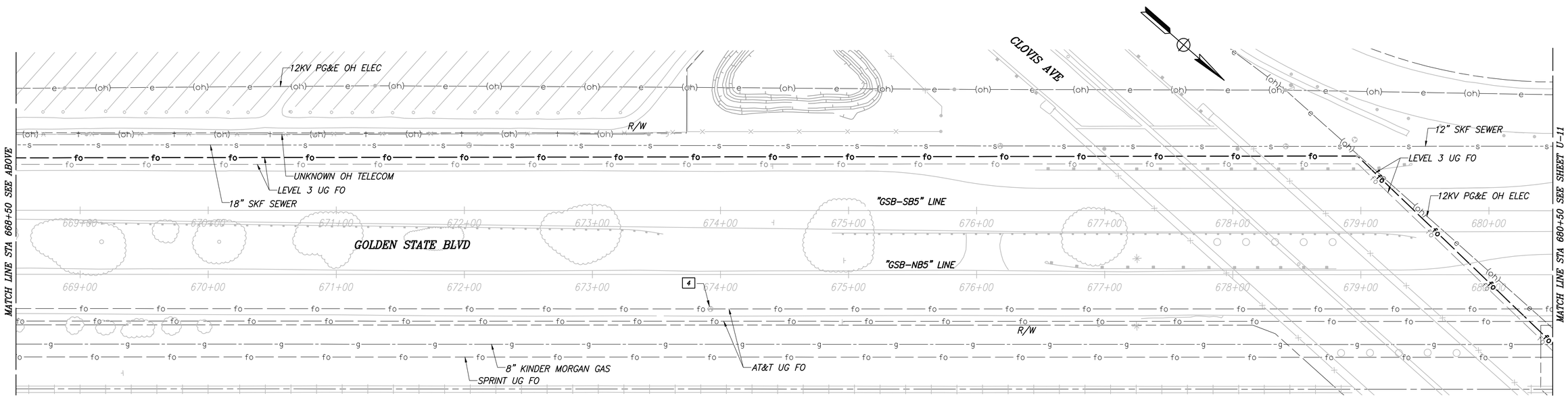


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STAMP

RECORD PROFESSIONAL ENGINEER EDGAR A. CORREGO No. 81855 9/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER-CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-10 SHEET NO. 82 TOTAL 142

PLOT DATE:4/2/2021 8:39:17 AM CAD USER: NYANES

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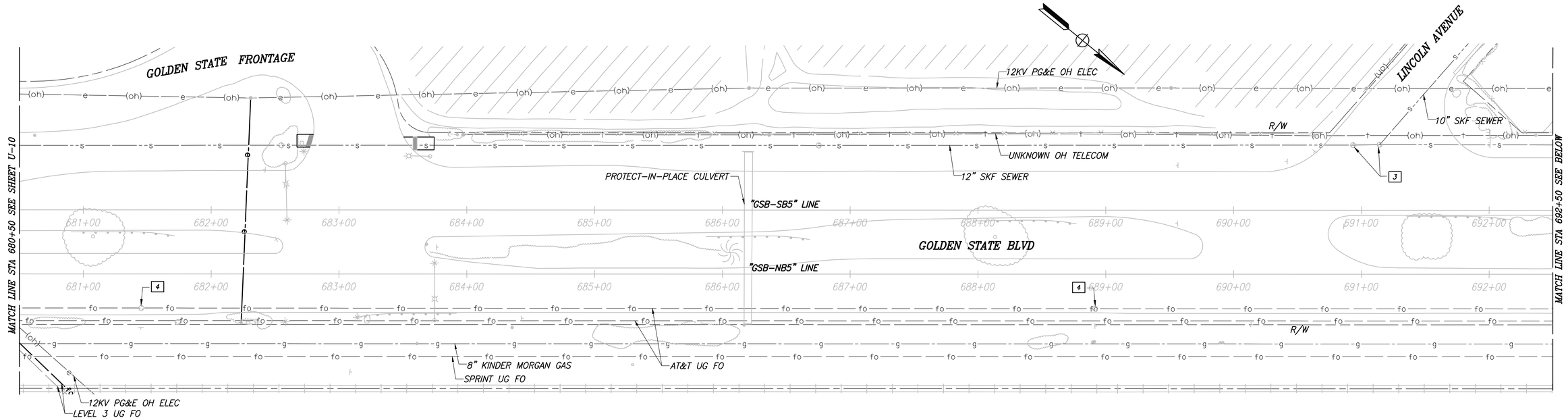
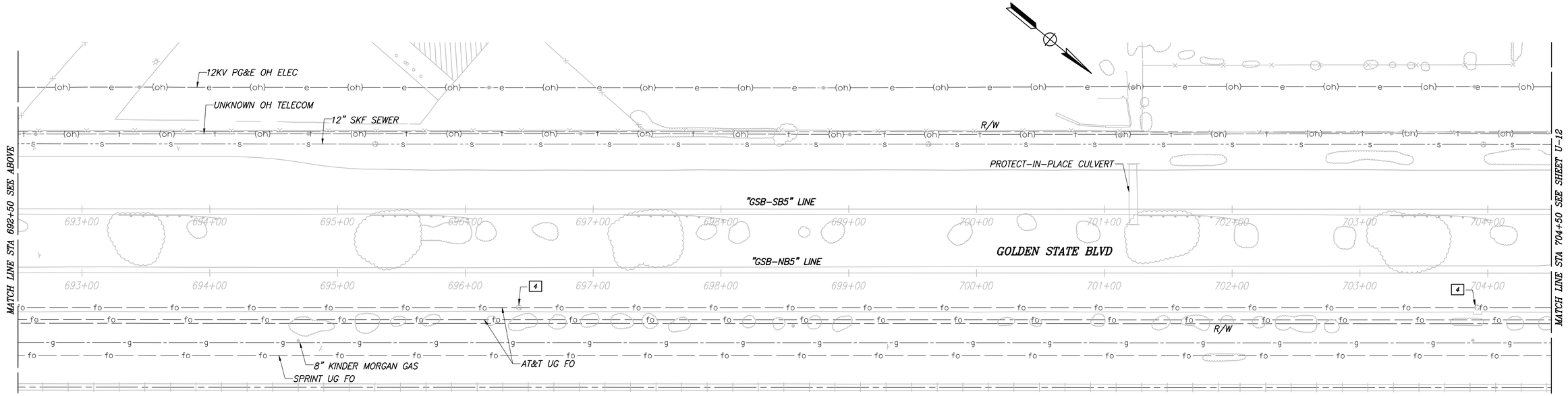


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA PROFESSIONAL ENGINEER REGISTERED ERICA A. NORIEGA No. 85555 7/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-11 SHEET NO. 83 TOTAL 142

PLOT DATE: 4/2/2021 8:39:39 AM CAD USER: NYANES

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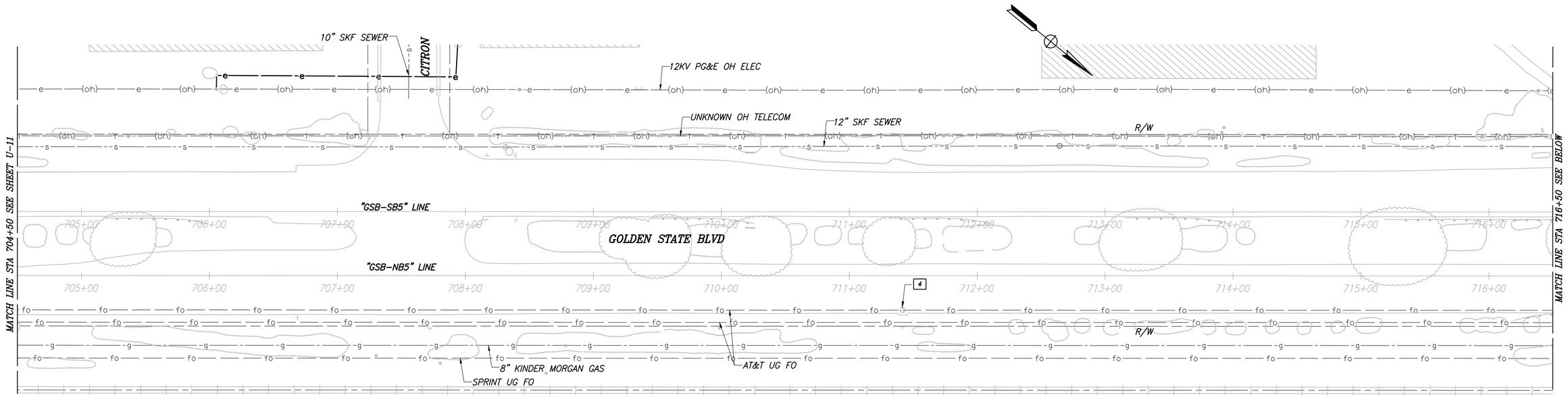
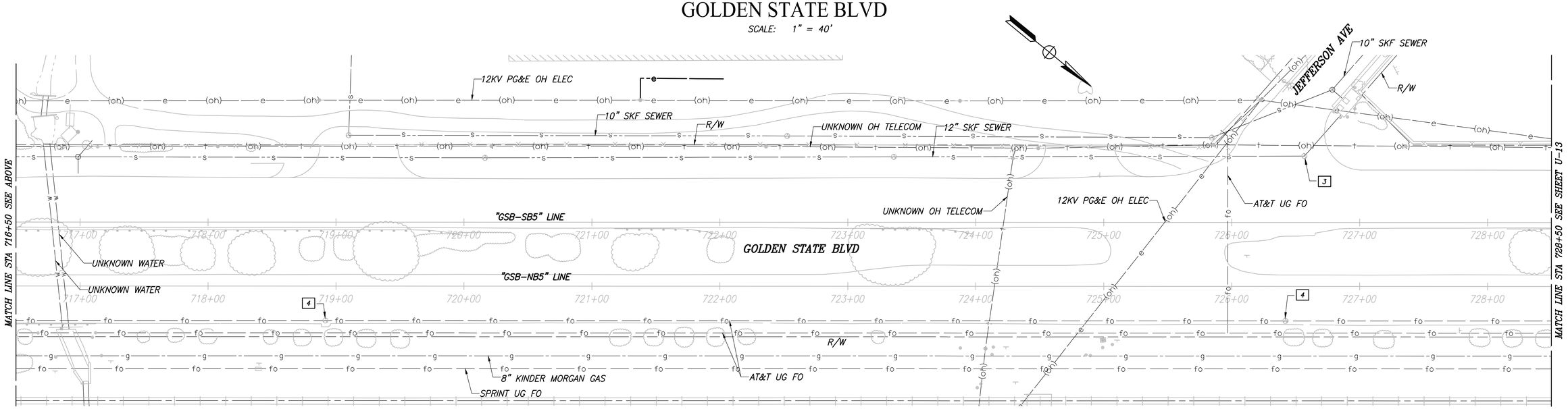


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER ERIC A. NORIEGA 6/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-12 SHEET NO. 84 TOTAL 142

PLOT DATE: 4/2/2021 8:40:02 AM CAD USER: NYANES

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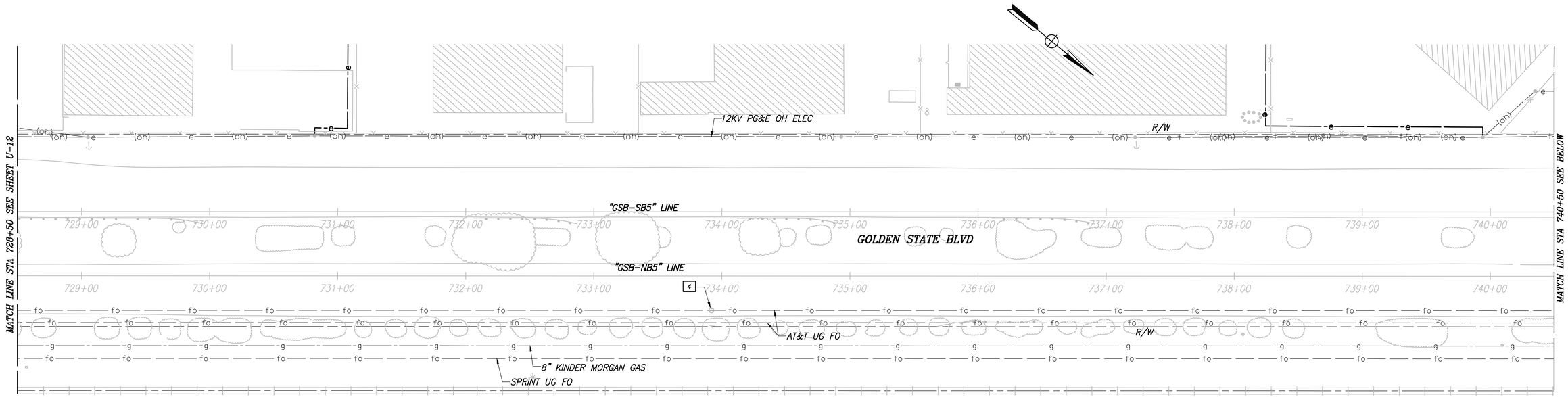
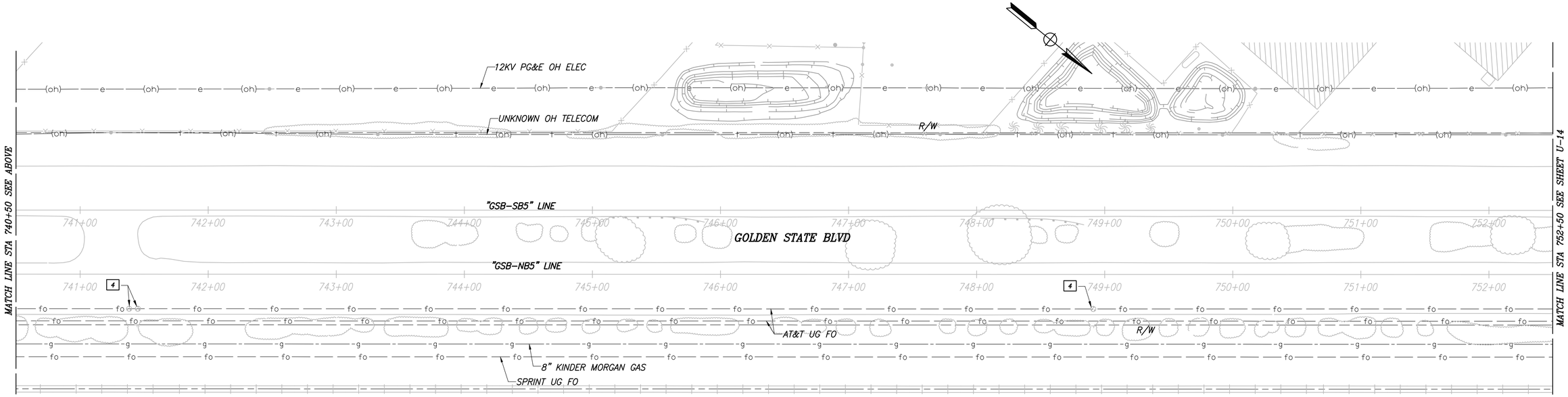


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STEVEN A. MORIEGA RECORDED PROFESSIONAL ENGINEER NO. 75555 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-13 SHEET NO. 85 TOTAL 142

PLOT DATE: 4/2/2021 8:40:28 AM CAD USER: NYANES

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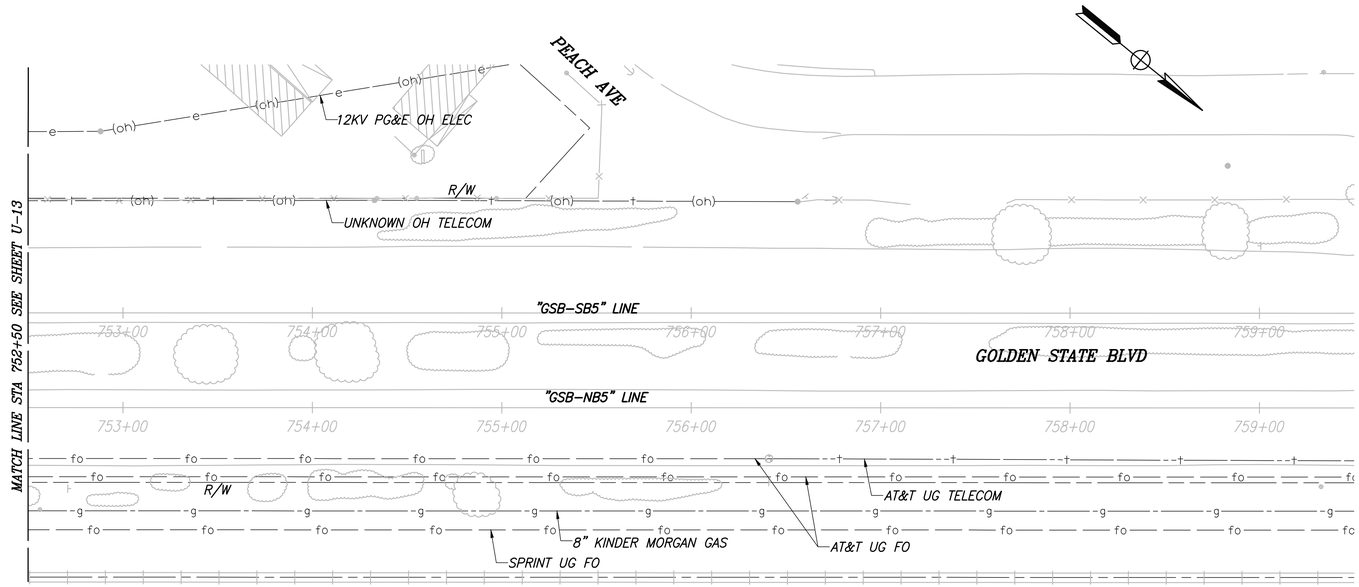

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSHUA A. LORENZO No. 81855 EXP. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

UTILITY PLAN

DRAWING NO. U-14 SHEET NO. 86 TOTAL 142

PLOT DATE:4/2/2021 8:40:42 AM CAD USER: NYANES

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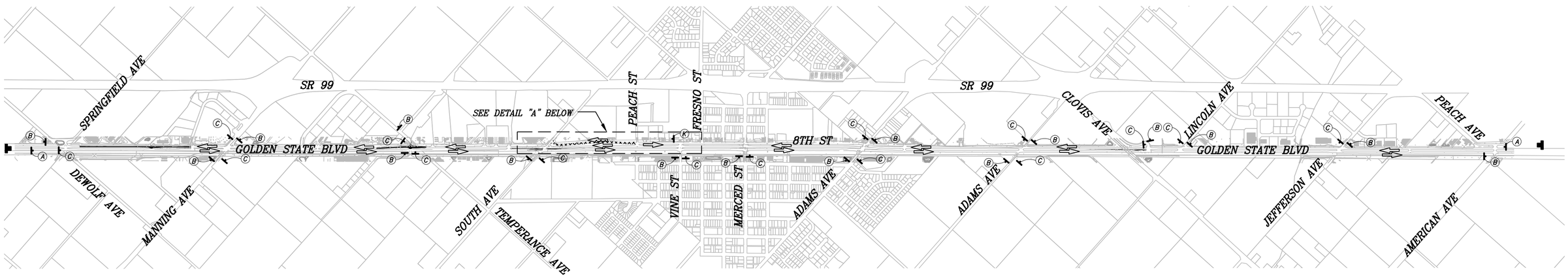
NOTES

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE MOST RECENT 2015 CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS ADJACENT CONSTRUCTION TO ACCESS PROPERTIES AT ALL TIMES.
5. CONTRACTOR TO COORDINATE ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE REMOVING ACCESS.
6. CONTRACTOR TO PROVIDE A MINIMUM OF ONE-11' LANE, IN EACH DIRECTION, ACCESS ALONG GOLDEN STATE BOULEVARD AND 8TH STREET AT ALL TIMES.

LEGEND

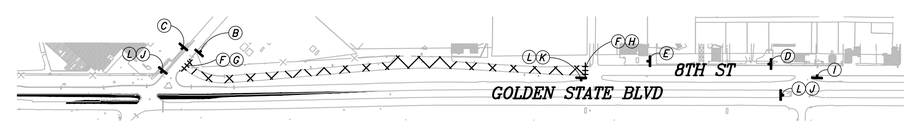
- RECONSTRUCT ROADWAY AREA
- TEMPORARY ROADWAY CLOSURE (LOCAL ACCESS ONLY)
- CONSTRUCTION AREA SIGN SINGLE POST
- TRAFFIC AREA DIRECTION
- CHANGEABLE MESSAGE SIGN (CMS)
- TYPE III BARRICADE



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	EACH [N]
A	G20-1	90"x48"	ROAD WORK NEXT 7 MILES	2
B	G20-2	36"x18"	END ROAD WORK	15
C	W20-1	36"x36"	ROAD WORK AHEAD	15
D	W20-3	36"x36"	ROAD CLOSED AHEAD	1
E	W20-2	36"x36"	DETOUR AHEAD	1
F	R11-4	60"x30"	ROAD CLOSED TO THRU TRAFFIC	2
G	M4-10(R)	48"x18"	DETOUR ARROW RIGHT	1
H	M4-10(L)	48"x18"	DETOUR ARROW LEFT	1
I	M4-8A	24"x18"	END DETOUR	1
J	M4-9	30"x24"	DETOUR WITH ARROW LEFT	2
K	M4-9	30"x24"	DETOUR WITH ARROW RIGHT	1
L	D3-1	30"x18"	8TH STREET	3
			TOTAL	45

[N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.



DETAIL "A"

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ~~ERIK CHIN~~ DAVID FOLLER	####		

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811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER DAVID A. FOLLER No. 55 EXP. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION AREA SIGNS

DRAWING NO. CS-1 SHEET NO. 87 TOTAL 142

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PLOT DATE:4/2/2021 8:41:21 AM CAD USER: ESERULVEDA

NOTES

1. TRAFFIC CONTROL SHOWN ON PLANS, INCLUDING LOCATIONS OF CONSTRUCTION AREA SIGNS, ARE APPROXIMATE AND INTENDED TO BE UTILIZED FOR STAGING PURPOSES ONLY. ALL TRAFFIC CONTROL SHALL BE APPROVED BY CITY OF FOWLER AND COUNTY OF FRESNO PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. ALL TRAFFIC CONTROL SHALL CONFORM WITH THE 2015 CALTRANS STANDARD PLANS AND THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONTRACTOR TO PROVIDE A MINIMUM OF ONE–11' LANE OF ACCESS IN EACH DIRECTION ALONG GOLDEN STATE BOULEVARD DURING CONSTRUCTION AT ALL TIMES.
4. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS THAT ARE ADJACENT TO CONSTRUCTION TO ACCESS PROPERTIES AT ALL TIMES.
5. CONTRACTOR TO COORDINATE ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE IMPACTING ACCESS.
6. CONTRACTOR SHALL COORDINATE WITH UPRR DURING ALL STAGES OF CONSTRUCTION.

TRAFFIC STAGE 1

1. WORK NOT NECESSARY FOR STAGING OPERATION CAN BE DONE AT ANY TIME AND IS NOT SHOWN.

LEGEND

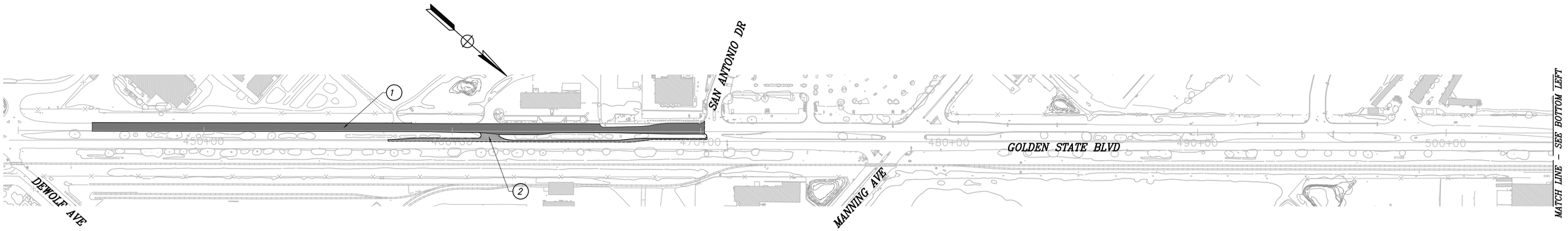
CONSTRUCTION THIS STAGE

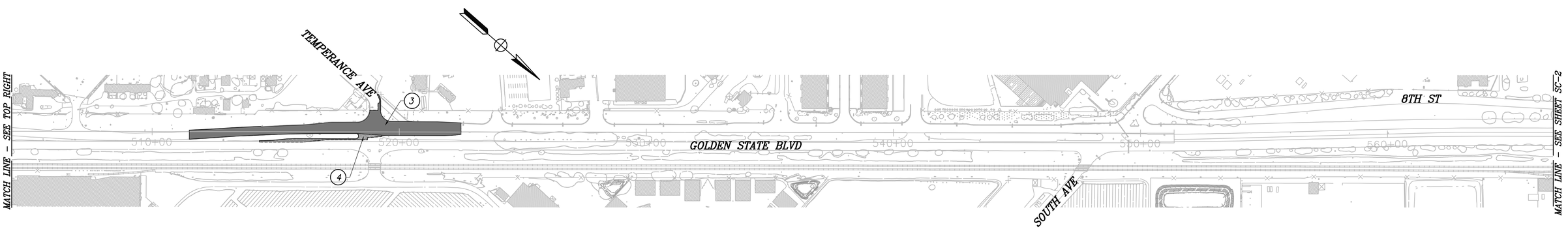
CONSTRUCTION THIS STAGE

(#) CONSTRUCTION ITEM THIS STAGE

CONSTRUCTION STAGE 1

1. CONSTRUCT MEDIAN CONCRETE AND FDR ON SOUTHBOUND GOLDEN STATE BOULEVARD BETWEEN SOUTHERN PROJECT LIMITS AND SAN ANTONIO DRIVE. DO NOT CONSTRUCT FINAL LIFT OF HMA.
2. CONSTRUCT CONVENTIONAL PAVEMENT SLIVER WIDENING BETWEEN SOUTHER PROJECT LIMITS AND MANNING AVENUE. DO NOT CONSTRUCT FINAL LIFT OF HMA.
3. CONSTRUCT FDR, CURB AND GUTTER, AND CONCRETE WORK AT TEMPERANCE AVENUE AND GOLDEN STATE BOULEVARD INTERSECTION. DO NOT CONSTRUCT FINAL LIFT OF HMA.
4. CONSTRUCT CONVENTIONAL PAVEMENT SLIVER WIDENING AT TEMPERANCE AVENUE AND GOLDEN STATE BOULEVARD INTERSECTION. DO NOT CONSTRUCT FINAL LIFT OF HMA.





	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ERIK CHIN	####		

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811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSHUA A. MORENO No. 81855 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 1

DRAWING NO. SC-1 SHEET NO. 88 TOTAL 142

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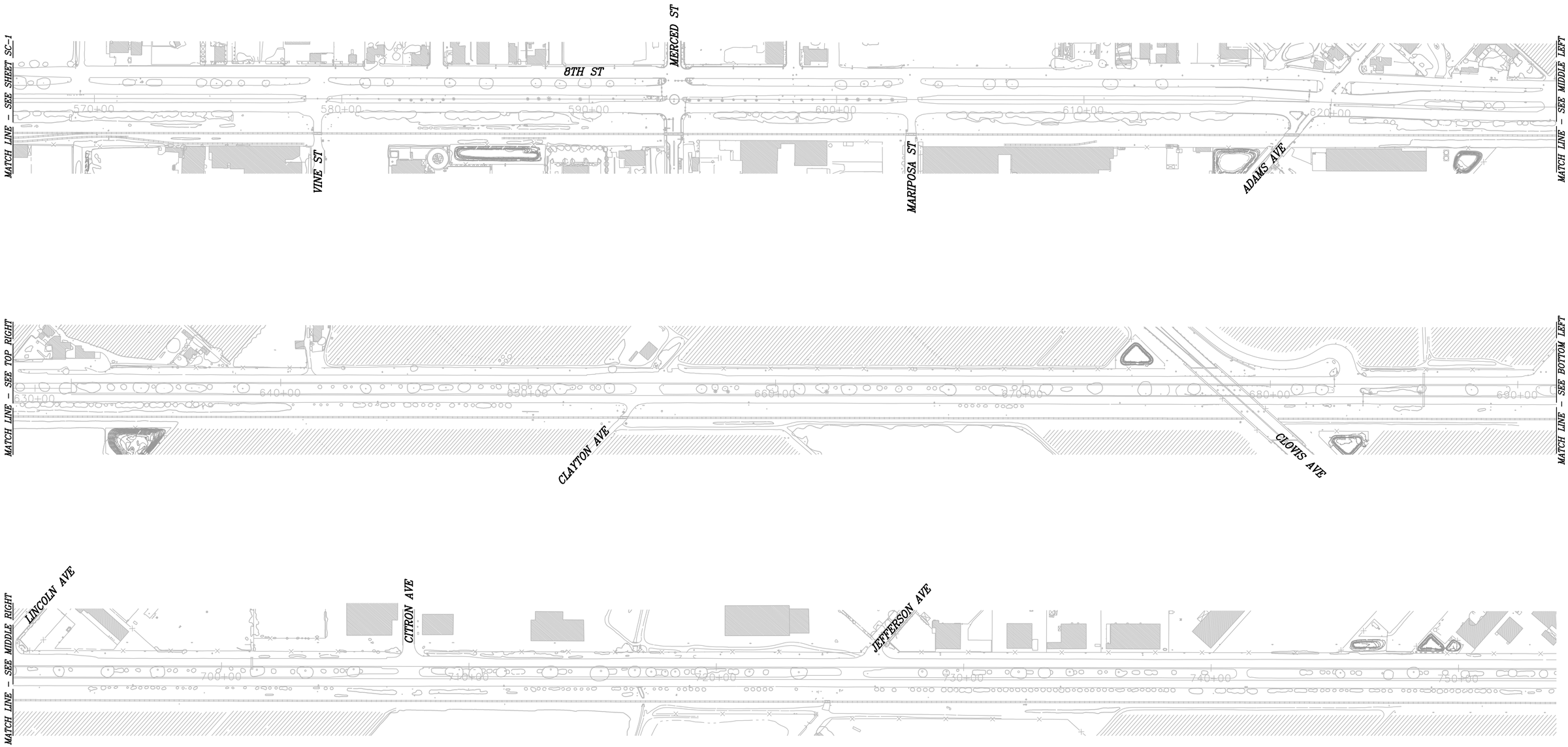

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	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

RECORDED PROFESSIONAL ENGINEER ED NORIEGA 4/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 1

DRAWING NO. SC-2 SHEET NO. 89 TOTAL 142

NOTES

1. TRAFFIC CONTROL SHOWN ON PLANS, INCLUDING LOCATIONS OF CONSTRUCTION AREA SIGNS, ARE APPROXIMATE AND INTENDED TO BE UTILIZED FOR STAGING PURPOSES ONLY. ALL TRAFFIC CONTROL SHALL BE APPROVED BY CITY OF FOWLER AND COUNTY OF FRESNO PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION. ALL SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
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4. CONTRACTOR TO PROVIDE REASONABLE MEANS FOR PROPERTY OWNERS THAT ARE ADJACENT TO CONSTRUCTION TO ACCESS PROPERTIES AT ALL TIMES.
5. CONTRACTOR TO COORDINATE ANY DRIVEWAY CLOSURES WITH PROPERTY OWNERS BEFORE IMPACTING ACCESS.
6. CONTRACTOR SHALL COORDINATE WITH UPRR DURING ALL STAGES OF CONSTRUCTION.

TRAFFIC STAGE 2

1. WORK NOT NECESSARY FOR STAGING OPERATION CAN BE DONE AT ANY TIME AND IS NOT SHOWN.

LEGEND

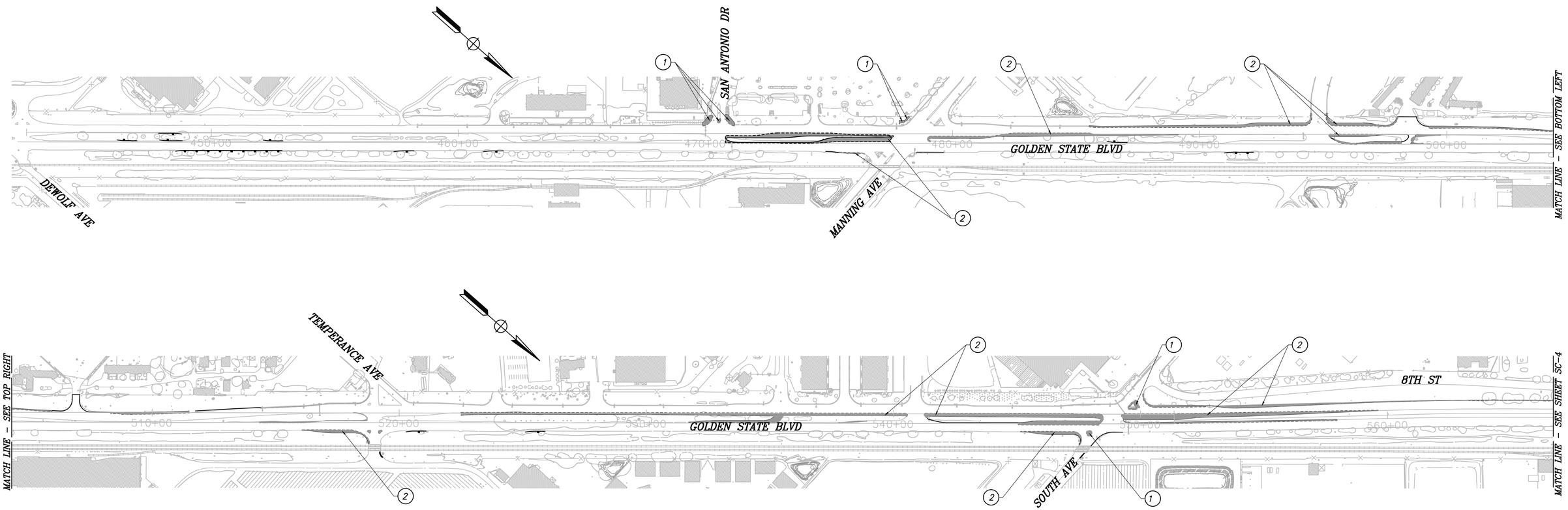
CONSTRUCTION THIS STAGE

CONSTRUCTION ITEM THIS STAGE

CONSTRUCTION STAGE 2

(1) CONSTRUCT CURB AND GUTTER, MEDIAN CURB, SIDEWALK, CURB RAMPS, CONCRETE, AND ADJACENT SHOULDER WORK AS SHOWN ON CD-SHEETS. DO NOT CONSTRUCT FINAL LIFT OF HMA.

(2) CONSTRUCT REMAINING LEFT TURN LANES, RIGHT TURN LANES, AND WIDENING AREAS. DO NOT CONSTRUCT FINAL LIFT OF HMA.



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	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOCAL A. LORIEGA No. C 85555 Exp. 12/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

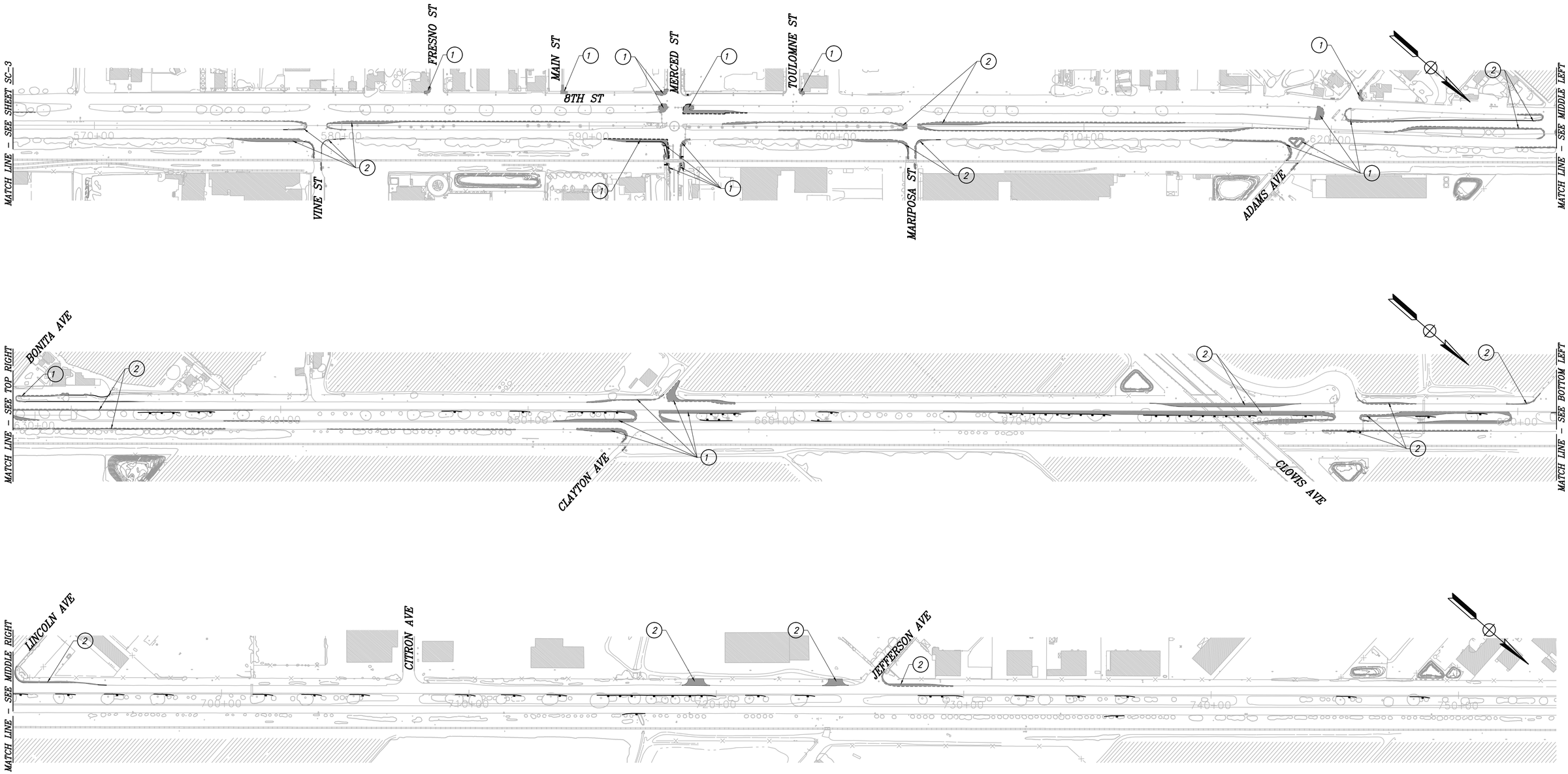
FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 2

DRAWING NO. SC-3 SHEET NO. 90 TOTAL 142



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

RECORDED PROFESSIONAL ENGINEER ED NORIEGA 90 CIVIL 6/30/21 STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 2

DRAWING NO. SC-4 SHEET NO. 91 TOTAL 142

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PLOT DATE:4/2/2021 8:44:38 AM

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NOTES

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TRAFFIC STAGE 3

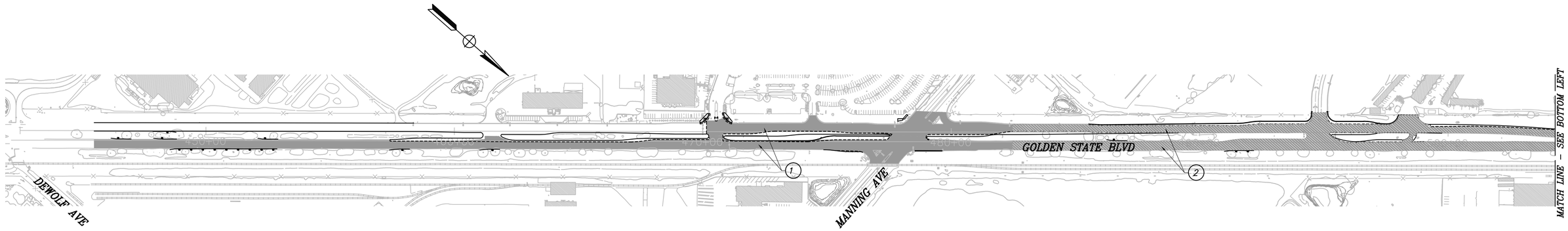
1. WORK NOT NECESSARY FOR STAGING OPERATION CAN BE DONE AT ANY TIME AND IS NOT SHOWN.

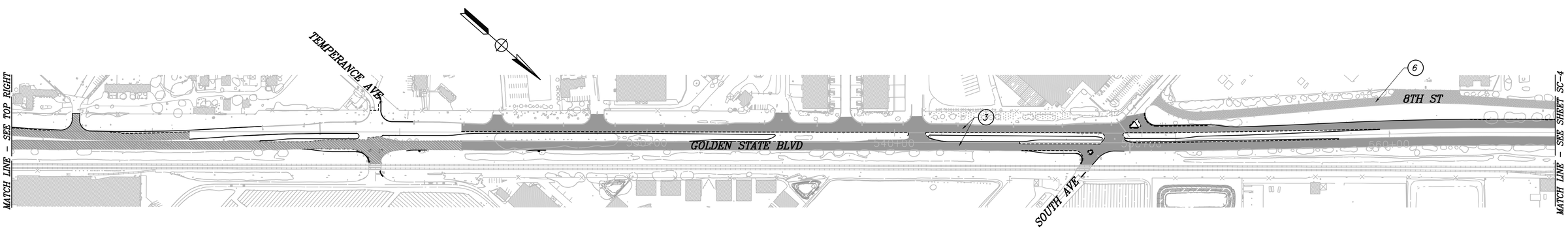
LEGEND

- CONSTRUCTION THIS STAGE
- CONSTRUCTION THIS STAGE
- CONSTRUCTION THIS STAGE
- CONSTRUCTION THIS STAGE
- (#) CONSTRUCTION ITEM THIS STAGE

CONSTRUCTION STAGE 3

1. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM DEWOLF AVE TO 250' NORTH OF MANNING AVE.
2. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM 250' NORTH OF MANNING AVE TO 350' NORTH OF TEMPERANCE AVE.
3. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM 350' NORTH OF TEMPERANCE AVE TO MERCED ST.
4. CONSTRUCT GRIND/HMA OVERLAY IMPROVEMENTS AT MERCED ST INTERSECTION.
5. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM MERCED ST TO 900' NORTH OF ADAMS AVE.
6. CONSTRUCT GRIND/HMA OVERLAY IMPROVEMENTS ALONG 8TH STREET
7. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM 900' NORTH OF VINE AVE TO 370' SOUTH OF CLOVIS AVE.
8. CONSTRUCT CIR AND FINAL LIFT OF HMA FROM 370' SOUTH OF CLOVIS AVE TO 850' SOUTH OF AMERICAN AVE.





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	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: [illegible]	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSHUA A. MORENO No. 81855 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

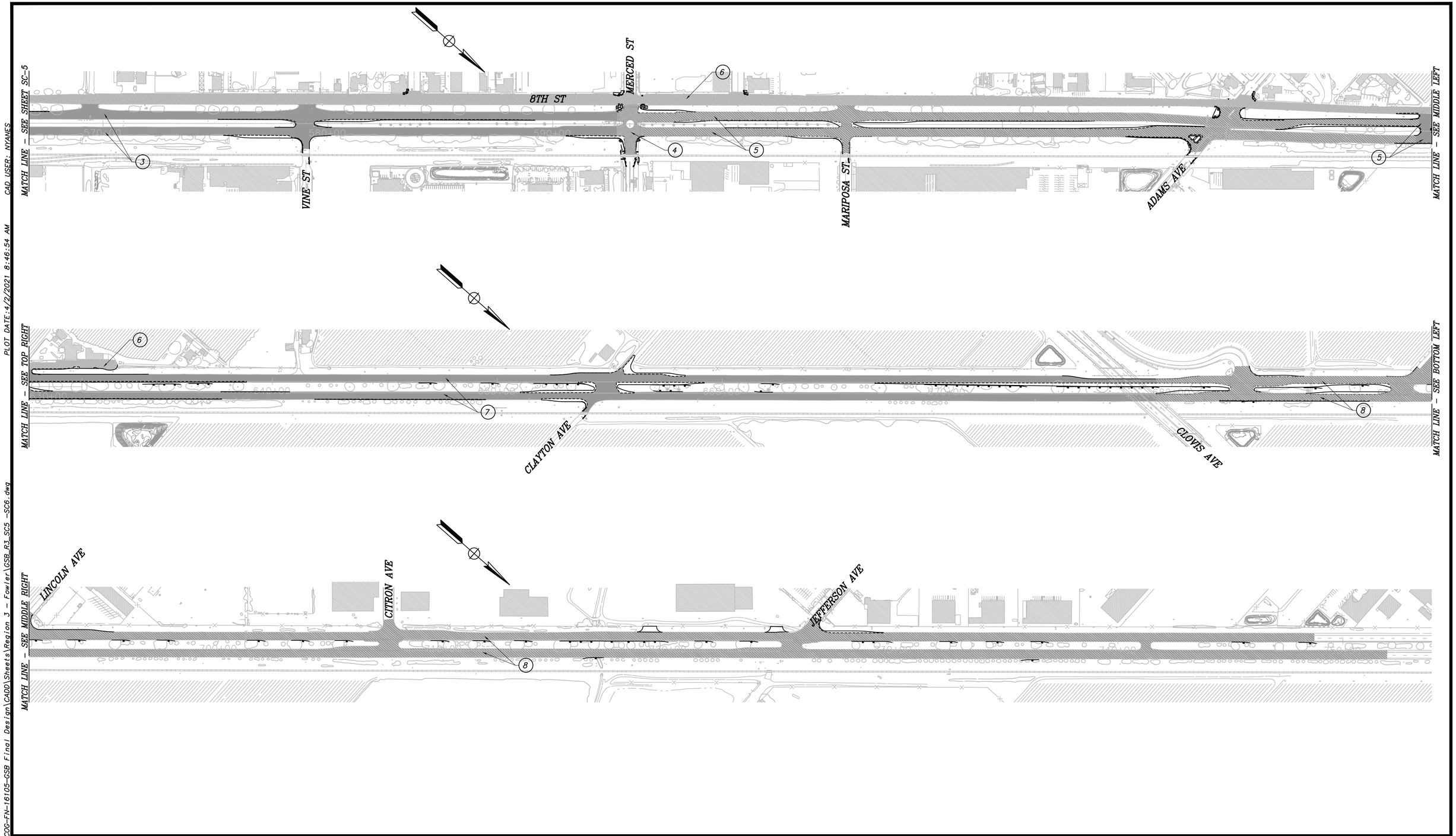
FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 3

DRAWING NO. SC-5 SHEET NO. 92 TOTAL 142



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	#####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

PROFESSIONAL ENGINEER REGISTERED ED NORIEGA 09/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

STAGE CONSTRUCTION - STAGE 3

DRAWING NO. SC-6 SHEET NO. 93 TOTAL 142

PATH:J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_SC5 -SC6.dwg

PLOT DATE:4/2/2021 8:46:54 AM

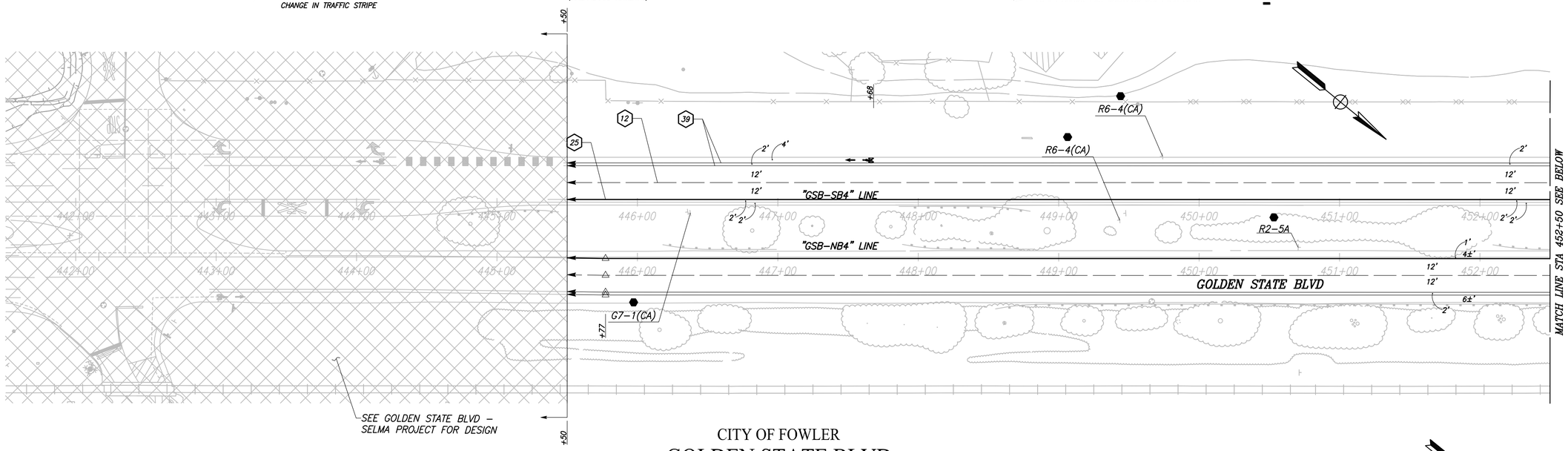
CAD USER: NYANES

NOTES

1. CROSSWALK TO BE 10' WIDE PER COUNTY OF FRESNO STD ST 42 UNLESS OTHERWISE NOTED

LEGEND

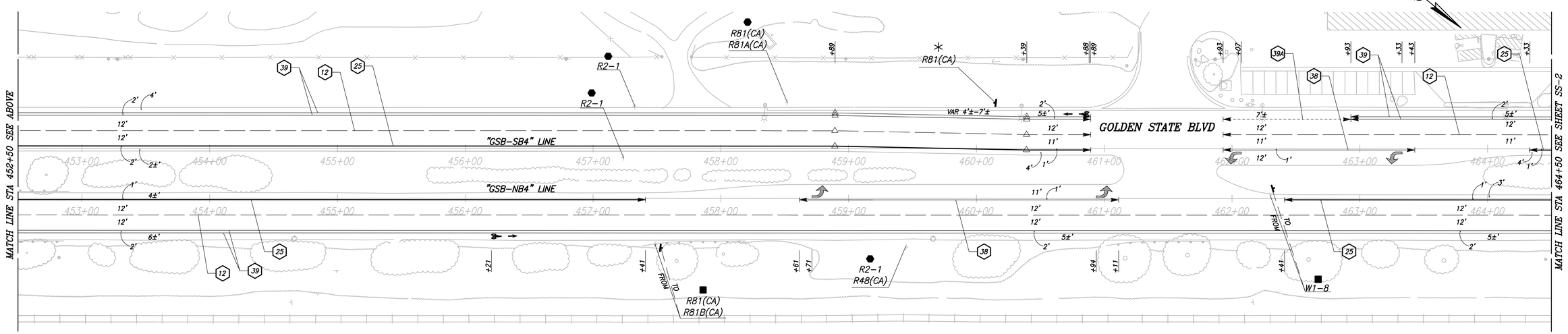
- RR — 24" WIDE WHITE LIMIT LINE FOR RAILROAD CROSSING
- LL — 12" WIDE WHITE LIMIT LINE
- YL — YIELD LINE PER CALTRANS STD PLAN A24E
- XW — CROSSWALK
- DENOTES PROPOSED DETAIL NUMBER PER CALTRANS STD PLANS
- DENOTES EXISTING DETAIL NUMBER PER CALTRANS STD PLANS
- CHANGE IN TRAFFIC STRIPE
- CHANGE IN TRAFFIC STRIPE
- SNS — STREET NAME SIGN
- EXISTING SINGLE POST ROADSIDE SIGN
- PROPOSED SINGLE POST ROADSIDE SIGN
- PROPOSED ROADSIDE SIGN SSBM
- /// — REMOVE EXISTING STRIPING AND MARKING (HAZARDOUS MATERIAL)
- AHEAD — "AHEAD" MARKING PER CALTRANS STD PLAN A24D
- SIGNAL — "SIGNAL" MARKING PER CALTRANS STD PLAN A24D
- STOP — "STOP" MARKING PER CALTRANS STD PLAN A24D
- KEEP — "KEEP" MARKING PER CALTRANS STD PLAN A24D
- CLEAR — "CLEAR" MARKING PER CALTRANS STD PLAN A24E
- YIELD — "YIELD" MARKING PER CALTRANS STD PLAN A24D
- BIKE LANE SYMBOL WITH PERSON PER CALTRANS STD PLAN A24C
- TYPE IV (L) ARROW PER CALTRANS STD PLAN A24B
- TYPE IV (R) ARROW PER CALTRANS STD PLAN A24B
- TYPE VI ARROW PER CALTRANS STD PLAN A24A
- TYPE VII ARROW PER CALTRANS STD PLAN A24A
- TYPE I ARROW PER CALTRANS STD PLAN A24A
- EXISTING SIGN TO BE SALVAGED AND REPLACED
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE RESET OR RELOCATED
- EXISTING SIGN TO BE REMOVED AND SALVAGED
- INSTALL ROADSIDE SIGN
- RAILROAD CROSSING SYMBOL PER CALTRANS STD PLAN A24B



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE — PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-1 SHEET NO. 94 TOTAL 142

PLOT DATE: 4/2/2021 8:48:52 AM CAD USER: ECHIN

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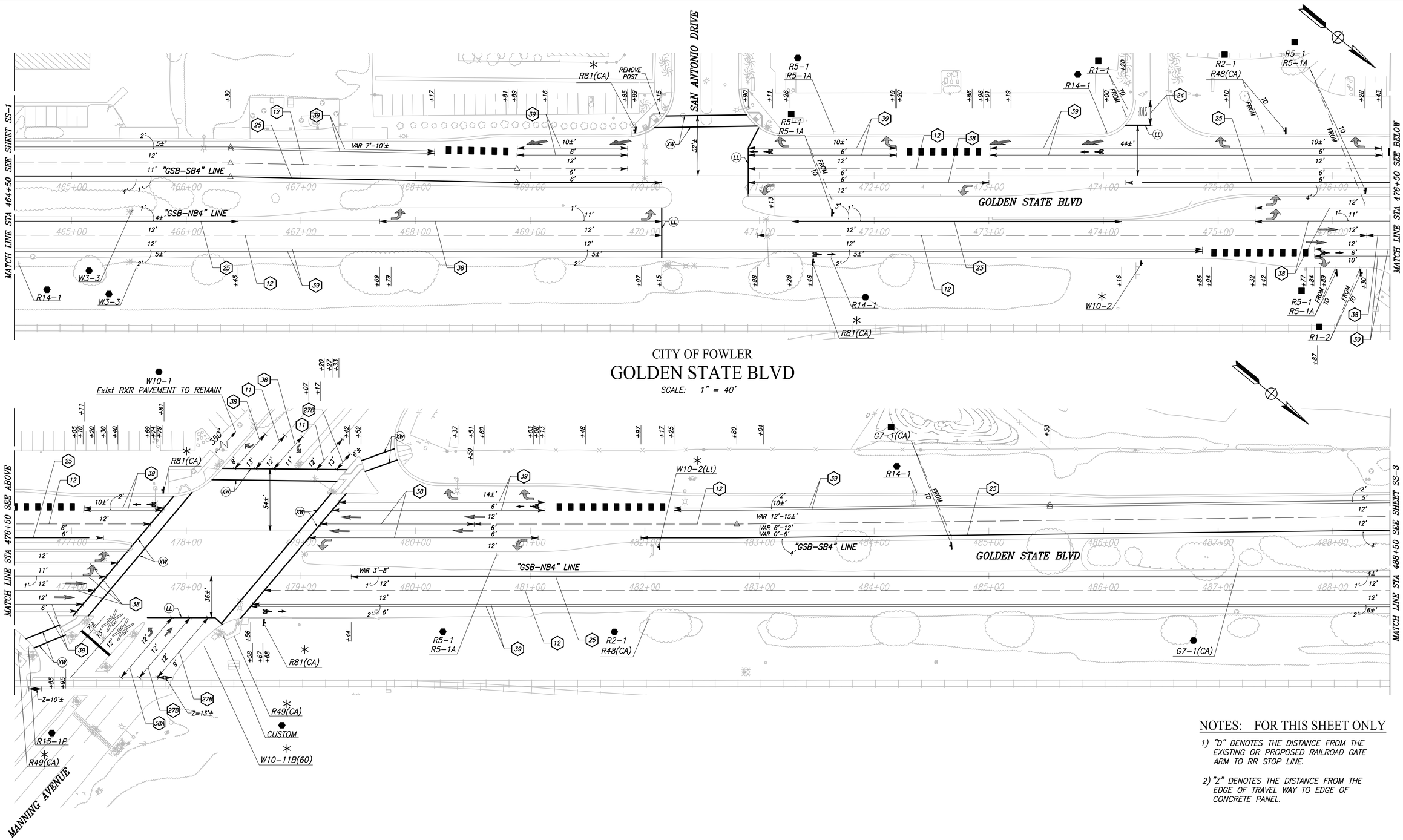

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

NOTES: FOR THIS SHEET ONLY

1) "D" DENOTES THE DISTANCE FROM THE EXISTING OR PROPOSED RAILROAD GATE ARM TO RR STOP LINE.

2) "Z" DENOTES THE DISTANCE FROM THE EDGE OF TRAVEL WAY TO EDGE OF CONCRETE PANEL.

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-2 SHEET NO. 95 TOTAL 142

PLOT DATE:4/2/2021 8:49:28 AM CAD USER: EQHIN

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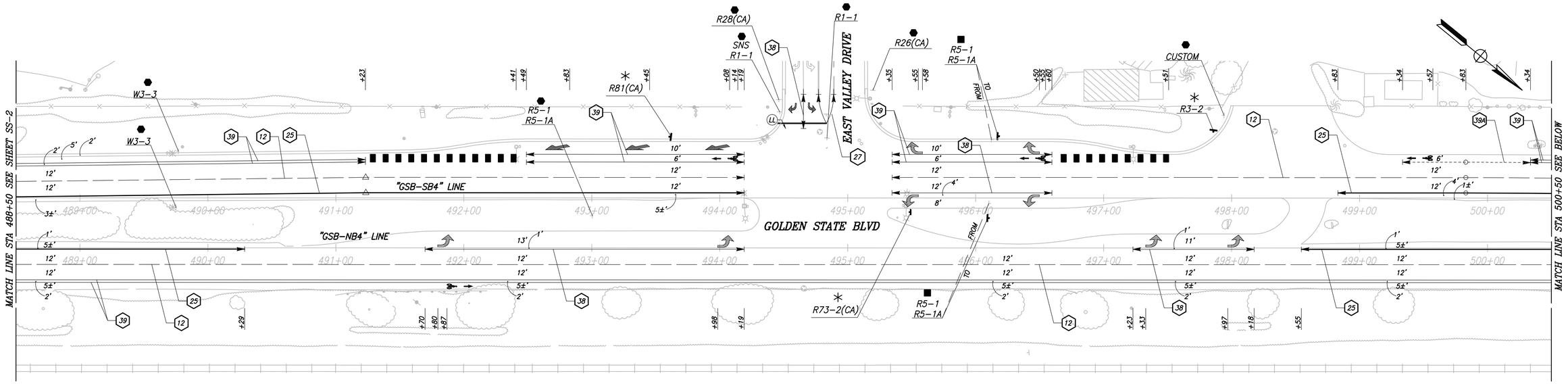
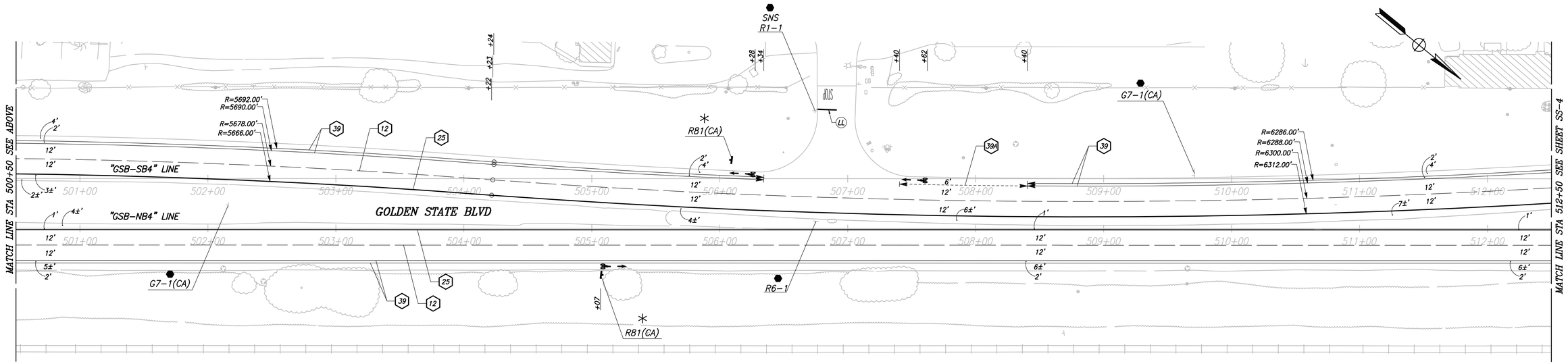


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-3 SHEET NO. 96 TOTAL 142

PLOT DATE: 4/2/2021 8:50:02 AM CAD USER: ECHIN

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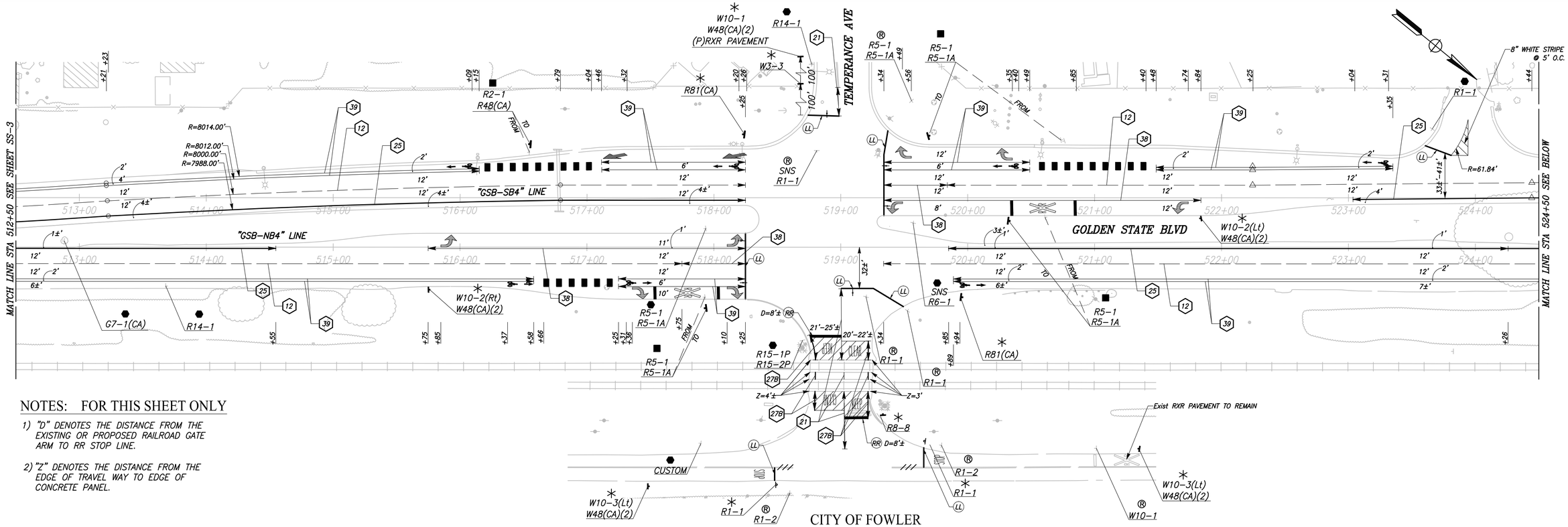


NOTES: FOR THIS SHEET ONLY

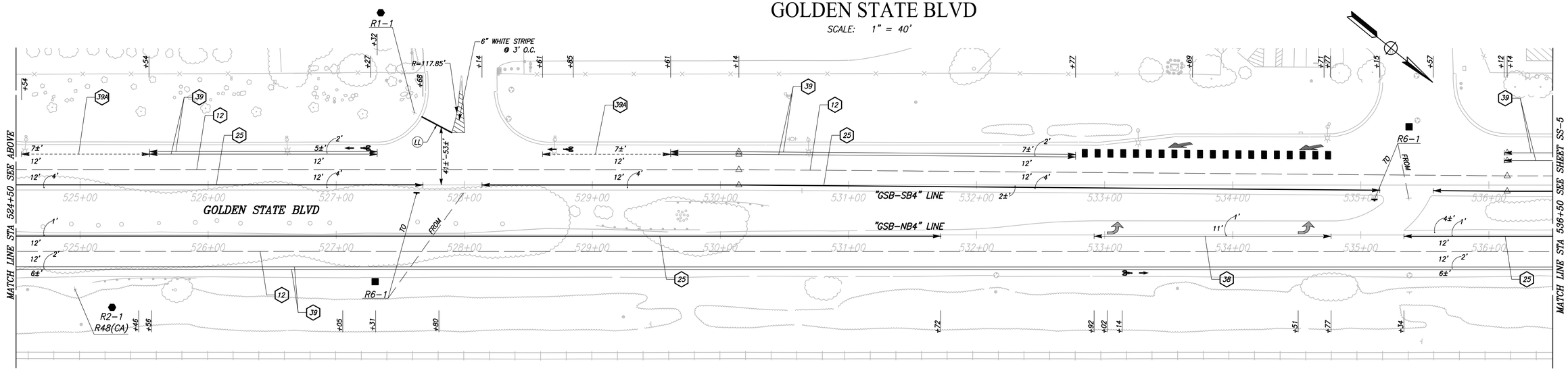
1) "D" DENOTES THE DISTANCE FROM THE EXISTING OR PROPOSED RAILROAD GATE ARM TO RR STOP LINE.

2) "Z" DENOTES THE DISTANCE FROM THE EDGE OF TRAVEL WAY TO EDGE OF CONCRETE PANEL.

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-4 SHEET NO. 97 TOTAL 142

PLOT DATE: 4/2/2021 8:50:30 AM CAD USER: ECHIN

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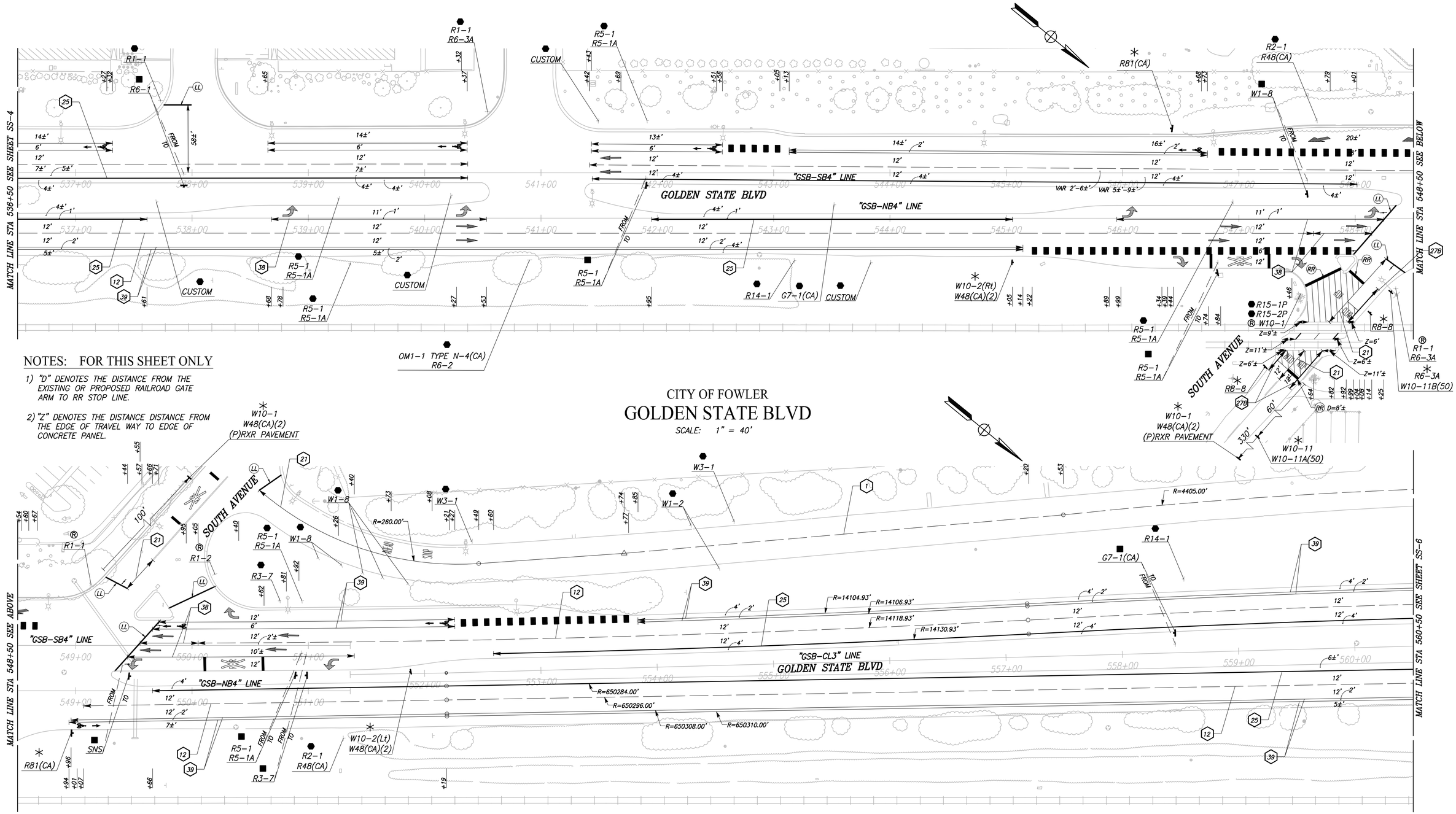

NOTES: FOR THIS SHEET ONLY

1) "D" DENOTES THE DISTANCE FROM THE EXISTING OR PROPOSED RAILROAD GATE ARM TO RR STOP LINE.

2) "Z" DENOTES THE DISTANCE DISTANCE FROM THE EDGE OF TRAVEL WAY TO EDGE OF CONCRETE PANEL.

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

PLOT DATE: 4/2/2021 8:51:05 AM CAD USER: ECHIN

PATH: J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_SS1-SS7.dwg

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

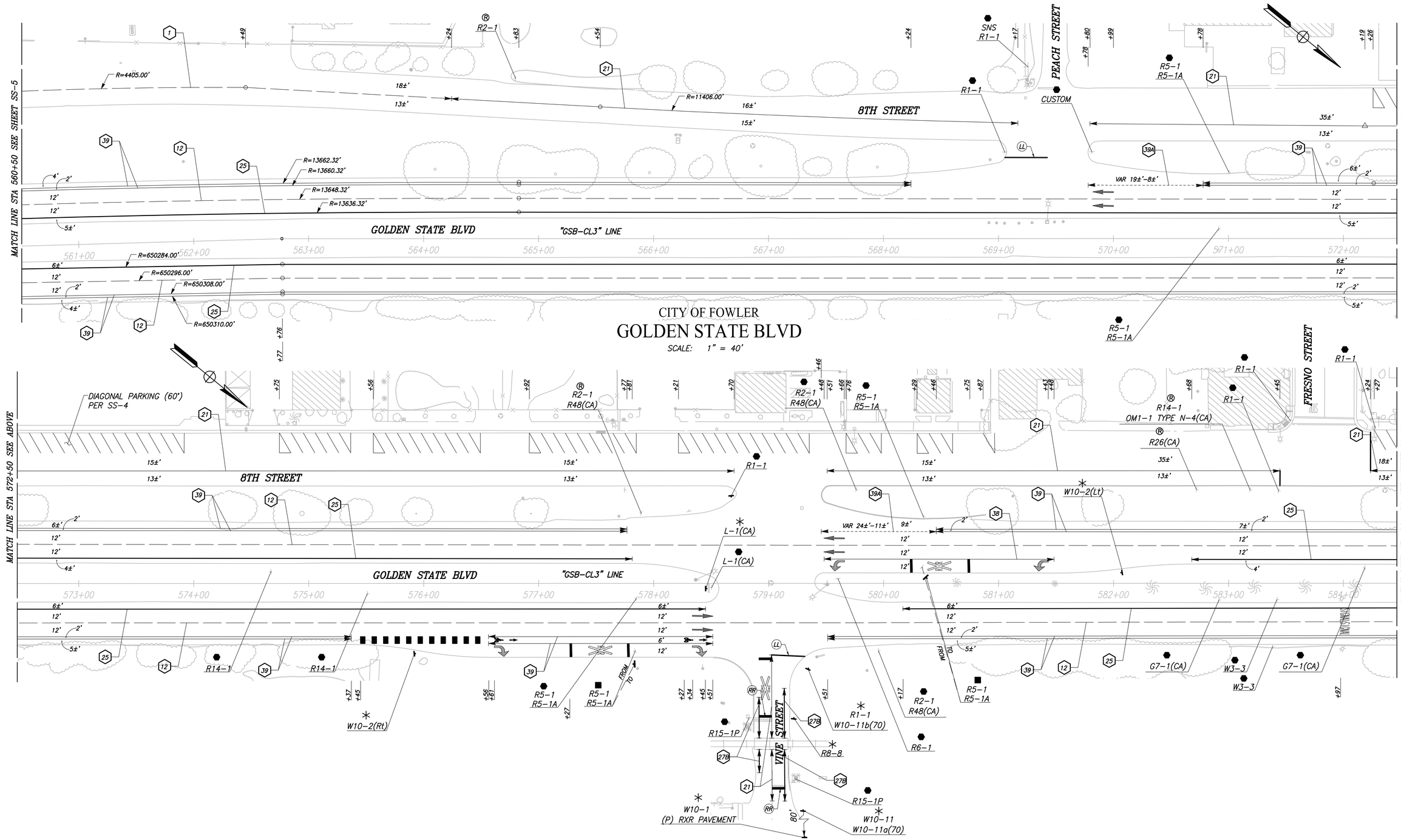
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-5 SHEET NO. 98 TOTAL 142



CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

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PLOT DATE:4/2/2021 8:51:40 AM

CAD USER: EQHIN

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN STUDY ONLY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 6/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1906

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

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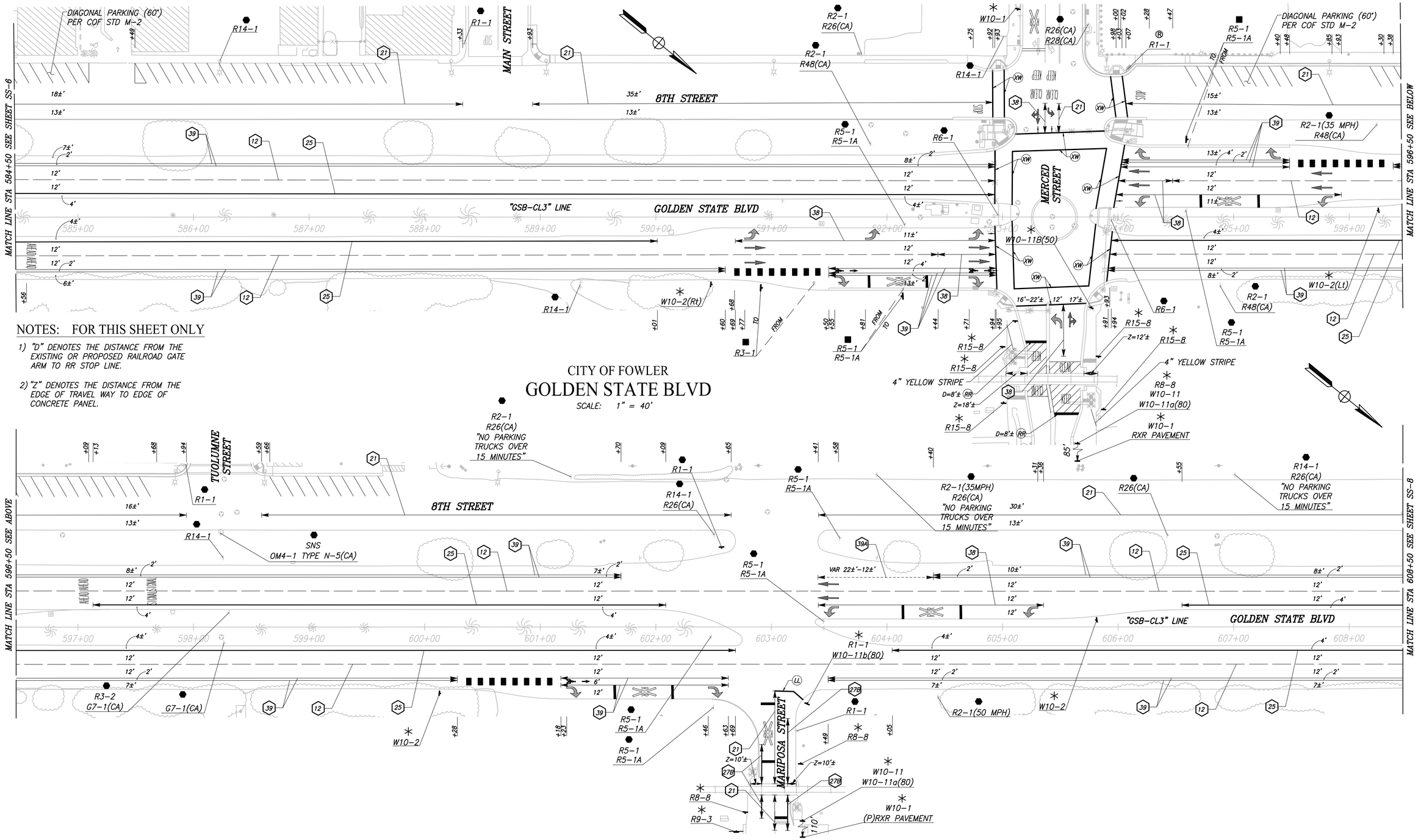

NOTES: FOR THIS SHEET ONLY

1) "D" DENOTES THE DISTANCE FROM THE EXISTING OR PROPOSED RAILROAD GATE ARM TO RR STOP LINE.

2) "Z" DENOTES THE DISTANCE FROM THE EDGE OF TRAVEL WAY TO EDGE OF CONCRETE PANEL.

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

PLOT DATE: 4/2/2021 8:52:18 AM CAD USER: ECHIN

PATH: J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_SS1-SS7.dwg

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 61555 Exp. 8/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

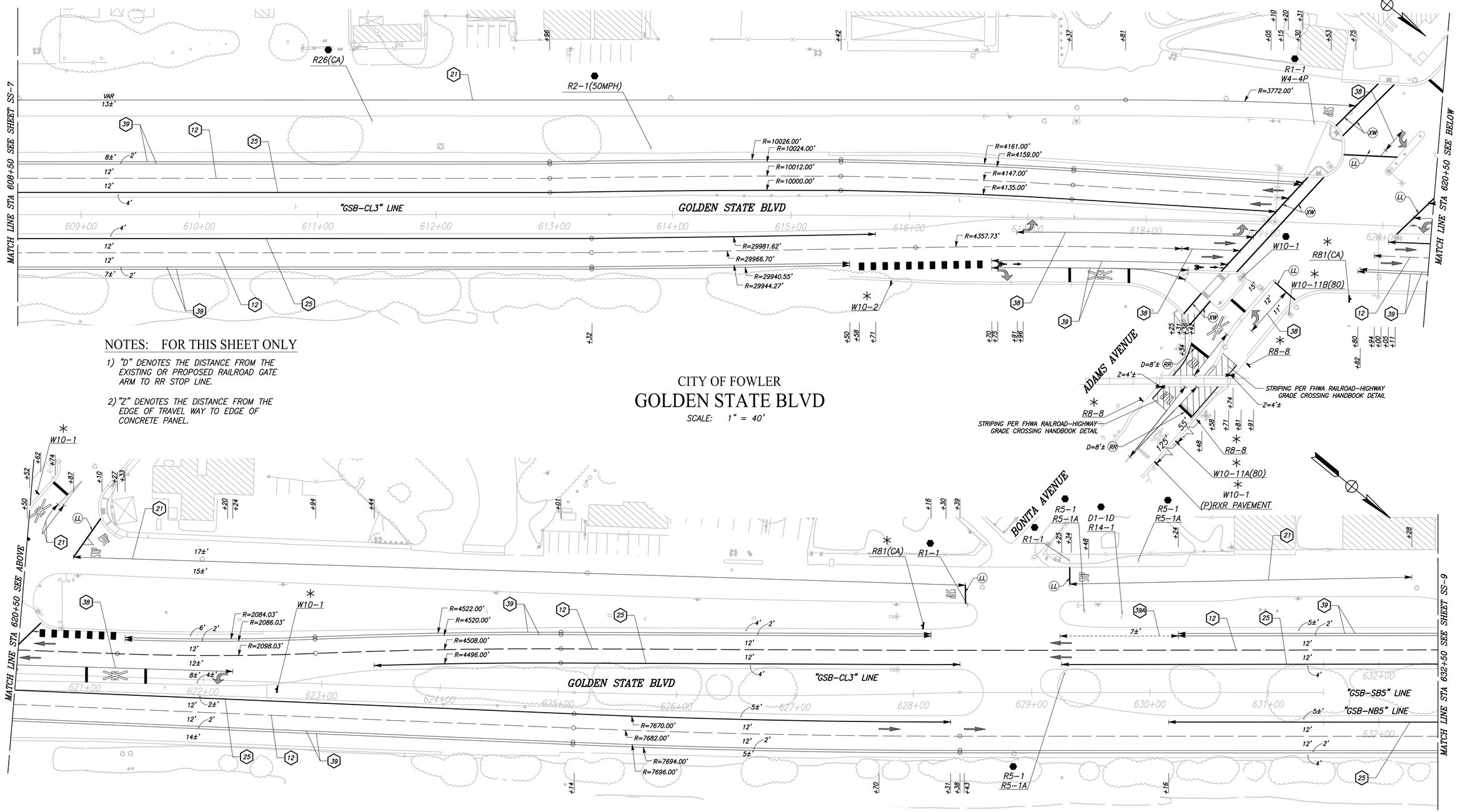
FOWLER REGION

THE CITY OF FOWLER-CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-7 SHEET NO. 100 TOTAL 142



NOTES: FOR THIS SHEET ONLY

1) "D" DENOTES THE DISTANCE FROM THE EXISTING OR PROPOSED RAILROAD GATE ARM TO RR STOP LINE.

2) "Z" DENOTES THE DISTANCE FROM THE EDGE OF TRAVEL WAY TO EDGE OF CONCRETE PANEL.

CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-8 SHEET NO. 101 TOTAL 142

PLOT DATE: 4/2/2021 8:53:12 AM CAD USER: ECHIN

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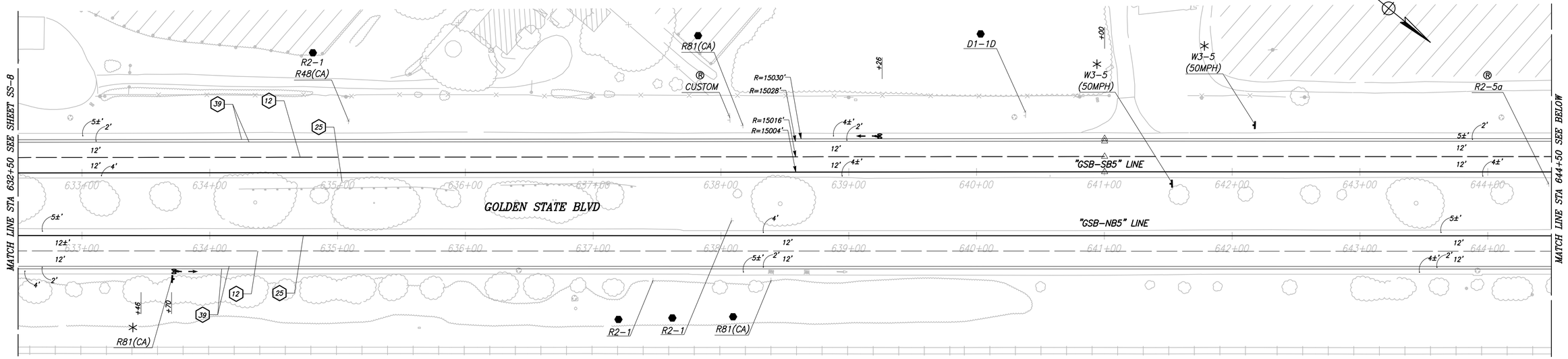
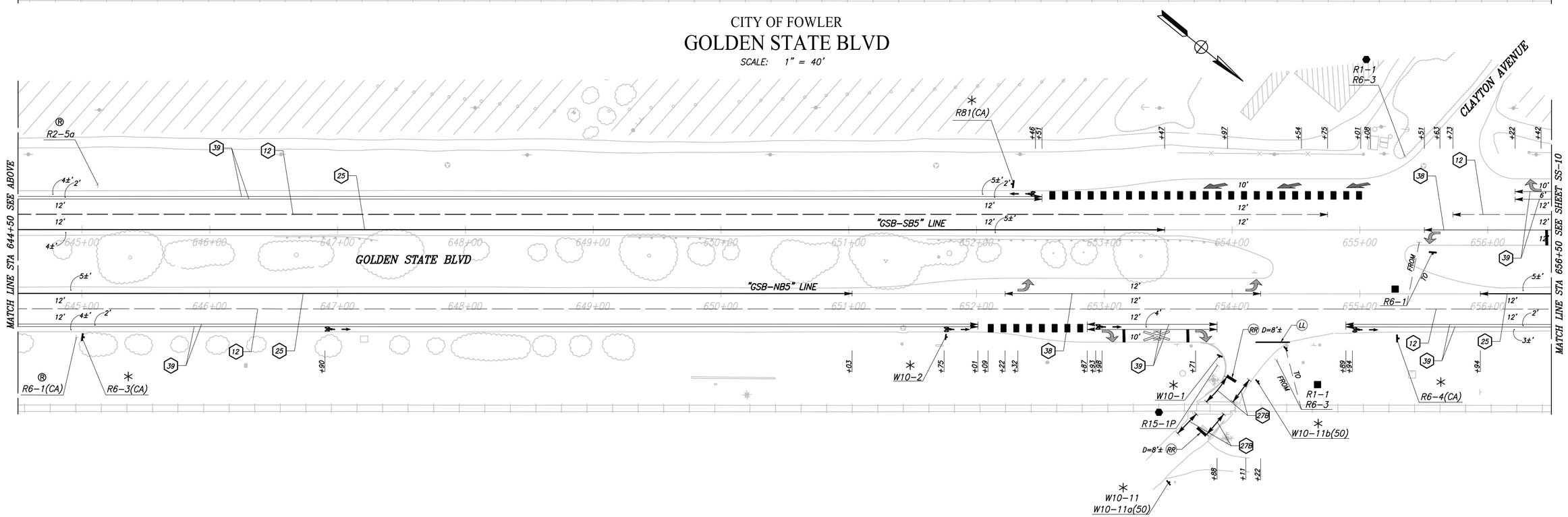


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



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DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STAGE

SUPERVISING ENGINEER DATE

RECORD PROFESSIONAL ENGINEER EDGAR A. NORIEGA No. 55 10/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-9 SHEET NO. 102 TOTAL 142

PLOT DATE: 4/2/2021 8:53:38 AM CAD USER: ECHIN

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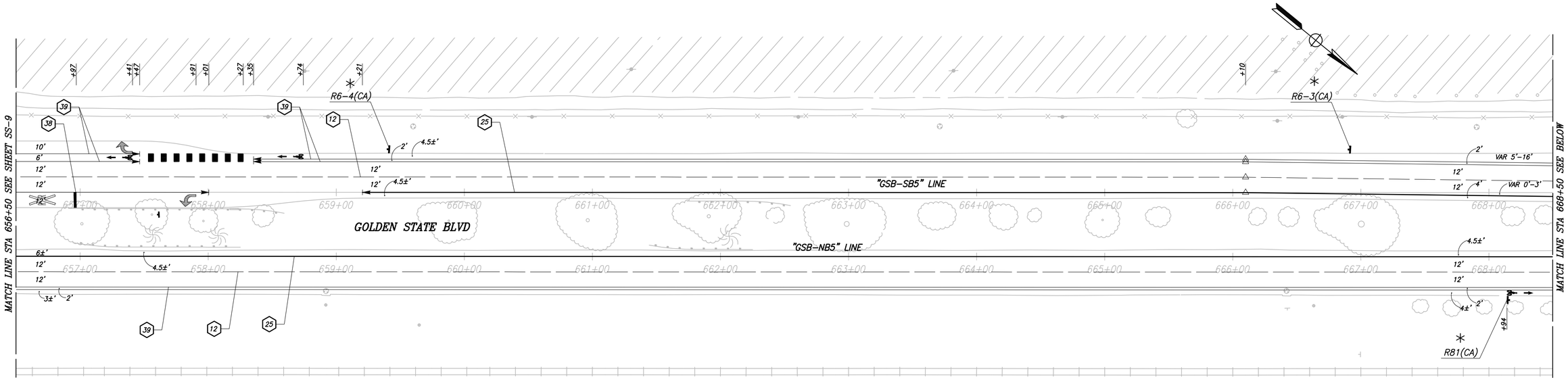
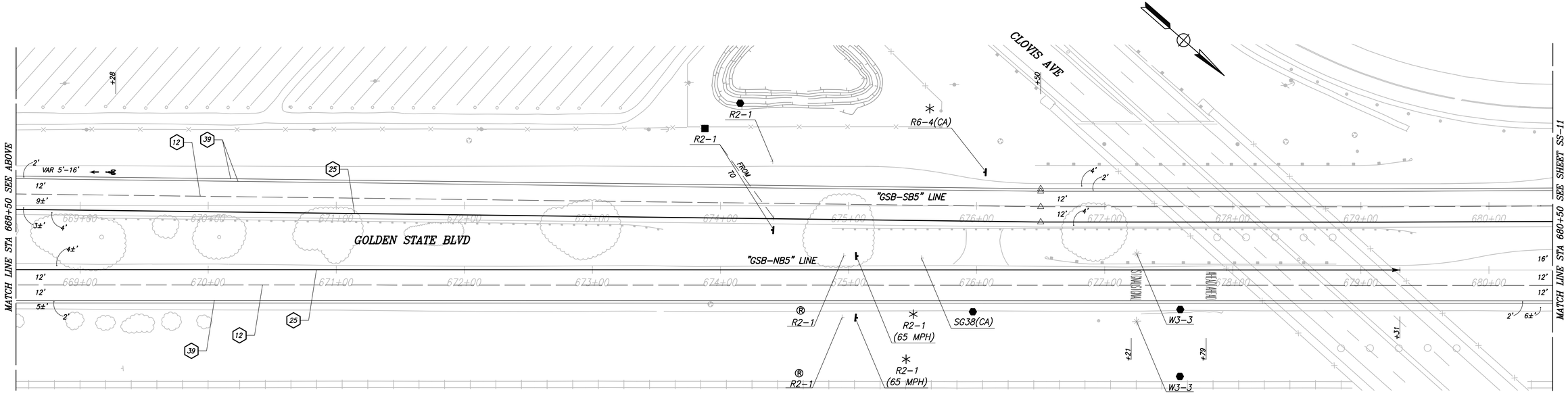


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

RECORD PROFESSIONAL ENGINEER EDGAR A. MORENO No. 81855 7/30/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER-CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-10 SHEET NO. 103 TOTAL 142

PLOT DATE: 4/2/2021 8:54:01 AM CAD USER: ECHIN

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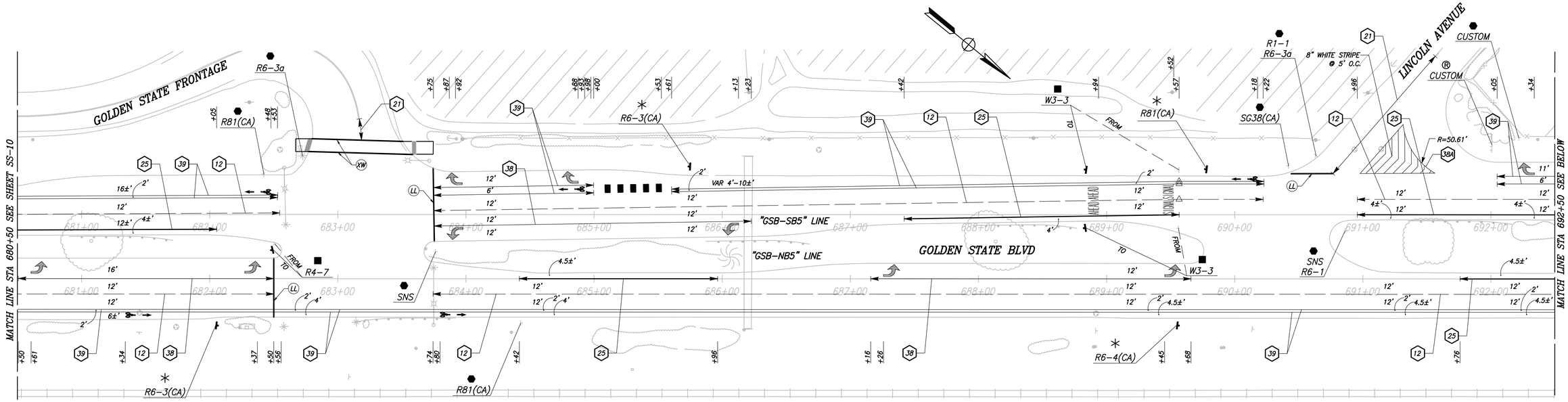
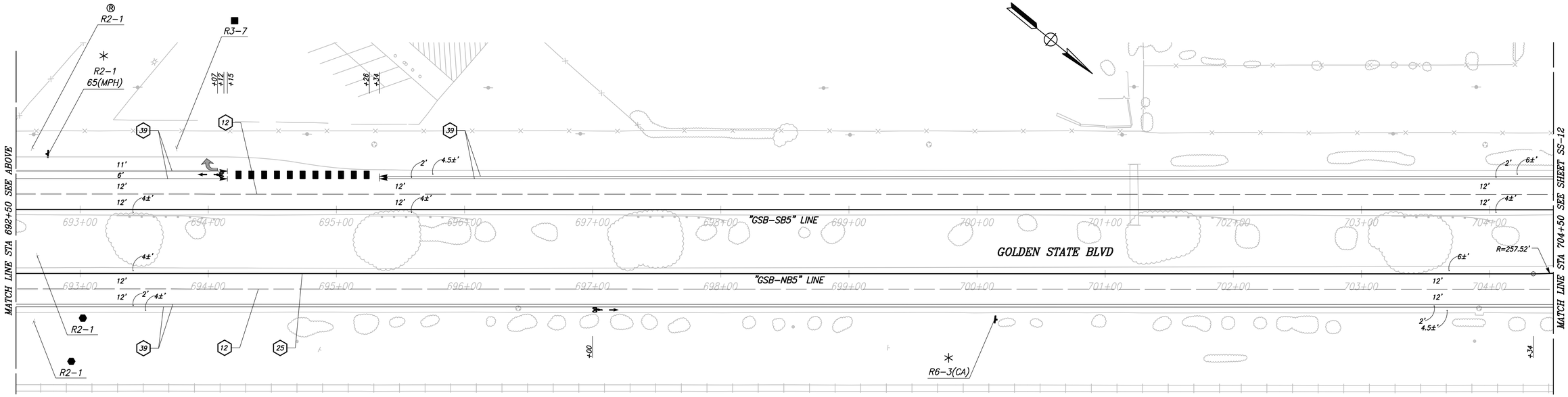


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER ERICA A. NORIEGA No. 85555 7/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-11 SHEET NO. 104 TOTAL 142

PLOT DATE: 4/2/2021 8:54:24 AM CAD USER: EQHIN

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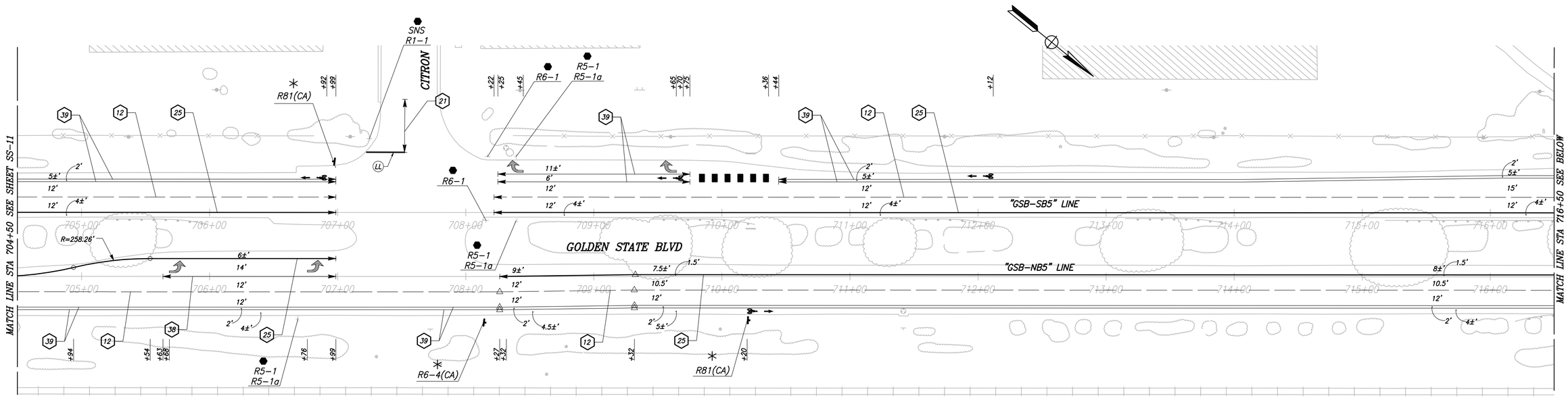
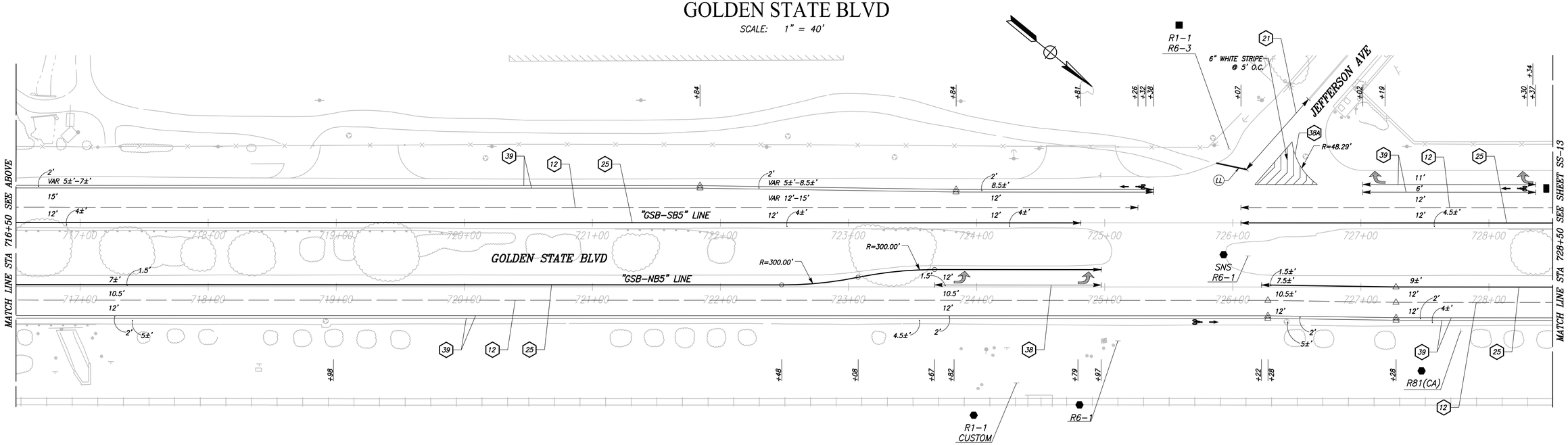


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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MARK THOMAS

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER ERIC A. NORIEGA C 50321 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER - CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-12 SHEET NO. 105 TOTAL 142

PLOT DATE: 4/2/2021 8:54:51 AM CAD USER: EQHIN

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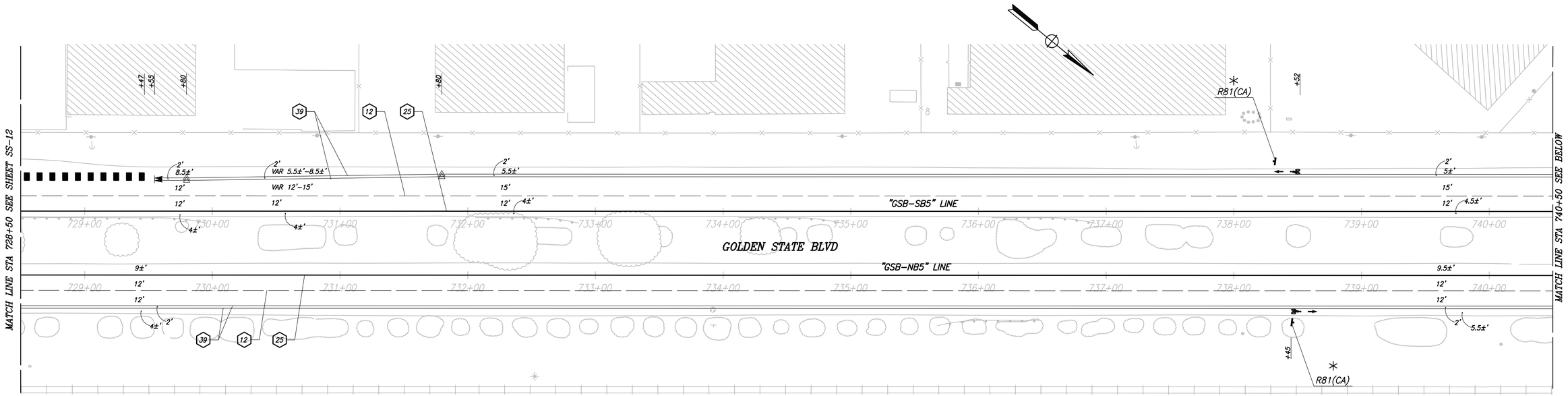
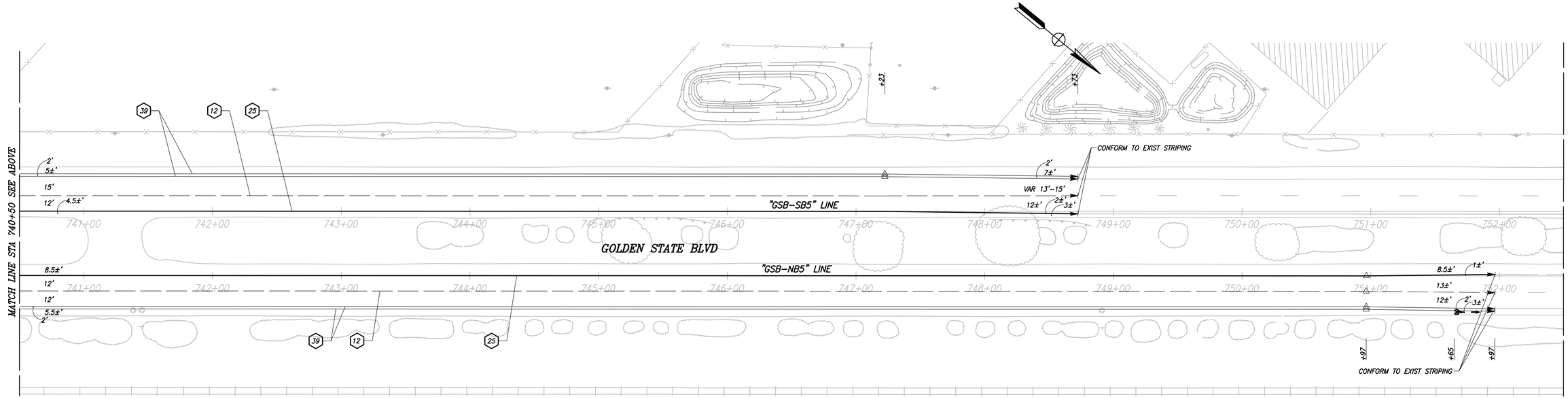


CITY OF FOWLER

GOLDEN STATE BLVD

SCALE: 1" = 40'



	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STATE OF CALIFORNIA PROFESSIONAL ENGINEER REGISTERED EDGAR A. NORIEGA No. 85555 7/30/21 CIVIL

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

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SIGNING AND STRIPING

DRAWING NO. SS-13 SHEET NO. 106 TOTAL 142

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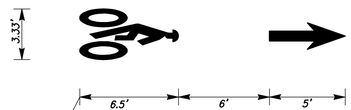
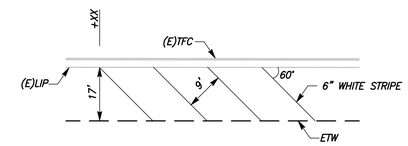


STATION ON PLAN

BIKE LANE MARKING DETAIL

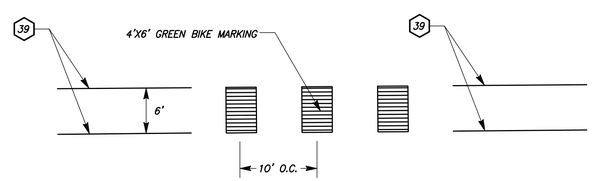
NTS

SEE CALTRANS STD PLANS A-24A AND A-24C
FOR PAVEMENT MARKING ARROW AND BIKE LANE SYMBOL



60° PARKING DETAIL

NTS



GREEN DASHED MARKINGS IN MERGING AREAS DETAIL

SCALE: 1" = 10'

	DATE	RECORD DRAWING	
DESIGNED: ERIK CHIN	####	RESIDENT ENGINEER	DATE
DRAWN: DILLON ALAMEDA	####		
CHECKED: ED NORIEGA	####		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

MARK THOMAS

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STAMP

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. NORIEGA
No. C 61855
Exp. 12/30/21
CIVIL
STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER · CALIFORNIA · 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

SIGNING AND STRIPING

DRAWING NO. SS-14 SHEET NO. 107 TOTAL 142

PATH:J:\Fresno COG-FN-16105-GSB Final Design\CADD\Sheets\Region 3 - Fowler\GSB_R3_SS8-SS13.dwg

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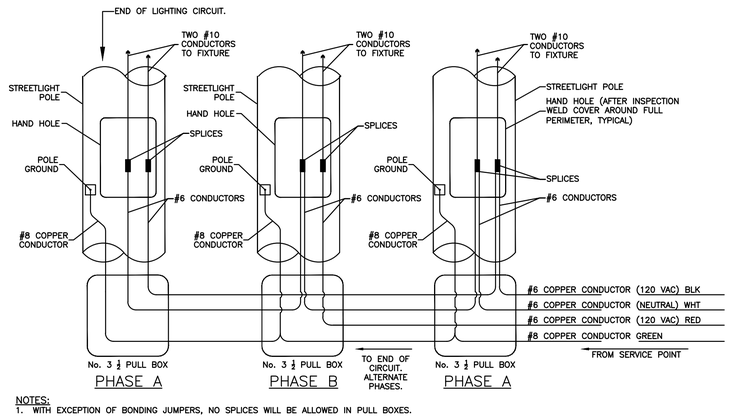
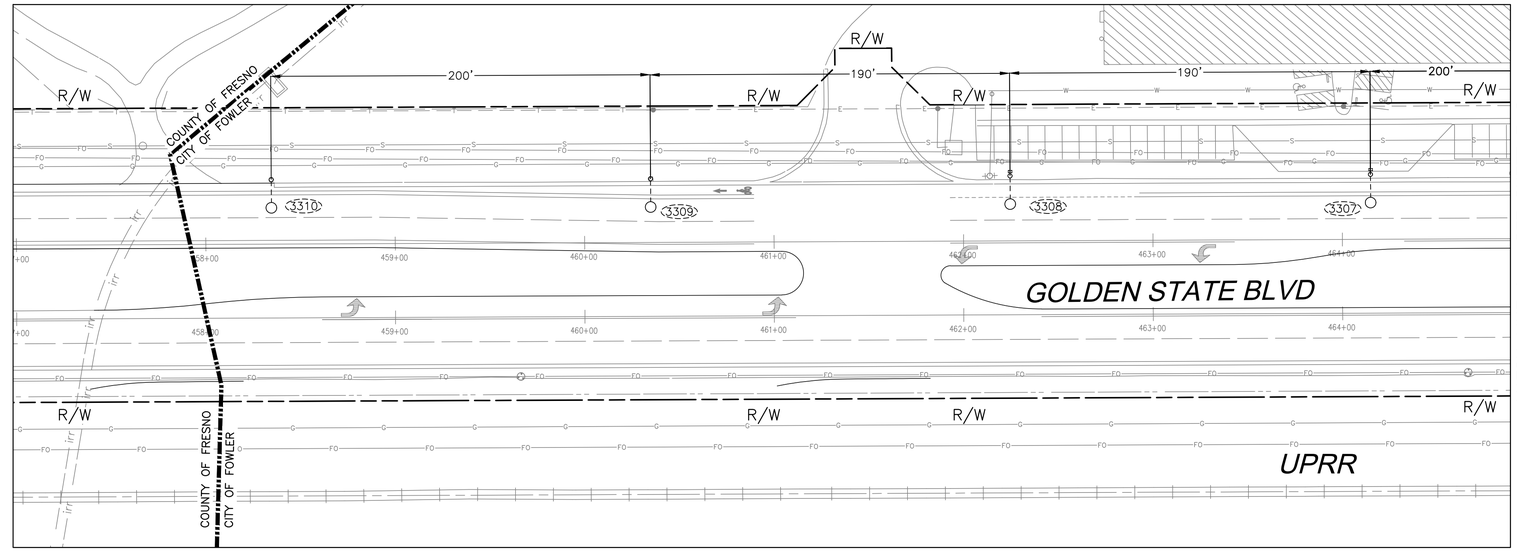


NOTES:
1. WITH EXCEPTION OF BONDING JUMPERS, NO SPLICES WILL BE ALLOWED IN PULL BOXES.

STREETLIGHT - CONNECTION DIAGRAM (SHEETS E-1 THROUGH E-9 ONLY)



STREET LIGHTING LEGEND (SHEETS E-1 THROUGH E-9 ONLY):

- EXISTING CONDUIT
- INSTALL 1½" CONDUIT UNLESS OTHERWISE NOTED.
- EXISTING STREET LIGHT.
- EXISTING DUAL STREET LIGHT.
- FURNISH AND INSTALL STREET LIGHT WITH 15' LUMINAIRE MAST ARM PER CITY OF FRESNO STANDARD E-1. LUMINAIRE SHALL BE SELECTED FROM THE CITY OF FRESNO APPROVED LED STREET LIGHT FIXTURE LIST PER GENERAL NOTE 9. X IDENTIFIES CIRCUIT.
- FURNISH AND INSTALL STREET LIGHT WITH DUAL 15' LUMINAIRE MAST ARM PER CITY OF FRESNO STANDARD E-1. LUMINAIRE SHALL BE SELECTED FROM THE CITY OF FRESNO APPROVED LED STREET LIGHT FIXTURE LIST PER GENERAL NOTE 9. X IDENTIFIES CIRCUIT.
- FURNISH AND INSTALL ORNAMENTAL LIGHT (DUAL LUMINAIRE). STREET LIGHT SHALL BE AMERLUX SAN DIEGO SERIES AP1705-12-GRN-GFCI-TOP WITH BR08U CROSSARM 2BR08U-GRN AND DUAL UTILITY LED LUMINAIRE AP24 SERIES DUF4-AP24-PC-CL-AVI2-AS-30-700M-GRN. X IDENTIFIES CIRCUIT.
- EXISTING SAFETY LIGHT.
- NEW SAFETY LIGHT. SEE TRAFFIC SIGNAL PLANS.
- INSTALL 3½ PULL BOX UNLESS OTHERWISE NOTED.
- XXXX CONTRACTOR SHALL PROVIDE AN AS-BUILT WITH THE PG&E STREET LIGHT NUMBER.
- XXXX EXISITING CITY OWNED STREET LIGHT.
- XXXX EXISTING PG&E OWNED STREET LIGHT.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE ADJACENT GRADE.
- SC SPLICE NEW TO EXISTING CONDUCTORS.

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BEFORE YOU DIG,
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0 40' 80'
SCALE: 1" = 40'

CONSTRUCTION NOTES (SHEETS E-1 THROUGH E-9 ONLY):

1. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL MODIFICATION PLAN AT GOLDEN STATE BOULEVARD AND SAN ANTONIO DRIVE.
2. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL MODIFICATION PLAN AT GOLDEN STATE BOULEVARD AND MANNING AVENUE.
3. PROPOSED PG&E POINT OF SERVICE (No. 2 PULL BOX).
4. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL PLAN AT GOLDEN STATE BOULEVARD AND TEMPERANCE AVENUE.
5. RS FA EXISTING STREET LIGHT. EXISTING LIGHTING CIRCUIT SHALL REMAIN OPERATIONAL.
6. CONTRACTOR TO COORDINATE WITH PG&E FOR THEM TO REMOVE AND SALVAGE THE EXISTING PG&E OWNED LIGHT, WOOD POLE AND OVER HEAD SERVICE WIRES.
7. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL PLAN AT GOLDEN STATE BOULEVARD AND SOUTH AVENUE.
8. RS LIGHT, WOOD POLE AND OVERHEAD SERVICE WIRE. CONTRACTOR TO COORDINATE WITH PG&E FOR SERVICE DISCONNECT.
9. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL MODIFICATION PLAN AT GOLDEN STATE BOULEVARD AND MERCED STREET.
10. NOT A PART OF STREET LIGHTING. SAFETY LIGHT TO BE INSTALLED AS A PART OF THE TRAFFIC SIGNAL MODIFICATION PLAN AT GOLDEN STATE BOULEVARD AND ADAMS AVENUE.
11. EXISTING PG&E SERVICE POLE 120/240 V, TYPE B SERVICE. CONTRACTOR TO COORDINATE WITH PG&E TO REMOVE EXISTING TYPE B SERVICE AND INSTALL TYPE H SERVICE.
12. DISCONNECT FROM EXISTING LIGHTING CIRCUIT AND CONNECT TO NEW SERVICE PEDESTAL ON TEMPERANCE AVENUE.
13. CONTRACTOR TO COORDINATE WITH PG&E FOR THE REMOVAL OF THE EXISTING LUMINAIRE MAST ARM AND LUMINAIRE #1978.
14. INSTALL 3" C FOR TYPE H PG&E SERVICE.
15. INSTALL 1½" C, 6 #6 LIGHTING, AND 1 #8 BOND.
16. INSTALL 1½" C, 3 #6 LIGHTING, AND 1 #8 BOND.
17. INSTALL 1½" C, 2 #6 LIGHTING, AND 1 #8 BOND.

CONSTRUCTION NOTES CONT. (SHEETS E-1 THROUGH E-9 ONLY):

18. EXISTING 1½" C, 3 #6 LIGHTING, AND 1 #8 BOND.
19. INSTALL 2" C, 3 #2 (SERVICE).
20. 3" C, SERVICE CONDUCTORS BY PG&E.
21. INSTALL NEW TYPE III-AF SERVICE CABINET. CONTRACTOR SHALL COORDINATE WITH PG&E FOR POINT OF SERVICE CONNECTION AND SET METER.

GENERAL NOTES (SHEETS E-1 THROUGH E-9 ONLY):

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE NATIONAL ELECTRICAL CODE, AND THESE SPECIAL PROVISIONS:
2. LUMINARIE SHALL BE COBRA HEAD TYPE, 120V LIGHT EMITTING DIODE (LED) WITH QUICK ACTING PHOTOELECTRIC CELL AND SHALL BE SELECTED PURSUANT TO SECTION 23-3 OF THE CITY SPECIFICATIONS. INSTALL FUSE (KTK-5) AND FUSE HOLDER (BUS-HEB) IN LUMINARIE. CONTRACTOR TO WELD HAND HOLD CLOSED AFTER FINAL INSPECTION.
3. ALL STREETLIGHTS SHALL BE NUMBERED PER STD. DWG. E-25. NUMERICAL SEQUENCE TO BE OBTAINED FROM PG&E. NUMERALS SHALL BE 2-1/2" HIGH AND INSTALLED 10'-6" ABOVE FINISHED GRADE.
4. ALL CONDUITS SHALL BE SCH. 80 P.V.C., OR SCH. 40 P.V.C., AS PER STD. DWG. NOS. E-1, E-2, AND E-6 (NOTE 1), EXCEPT THAT CONDUIT FOR MAJOR STREET CROSSINGS SHALL BE GALVANIZED RIGID CONDUIT. ALL PVC CONDUIT SHALL BE UNDER SIDEWALK. IF NOT UNDER SIDEWALK, GALVANIZED RIGID CONDUIT SHALL BE BACKFILLED IN A 4" WIDE TWO SACK CONCRETE SLURRY MIX.
5. PULL BOX SPACING SHALL NOT EXCEED 200 FT. PULL BOXES SHALL BE REQUIRED AT ALL CONDUIT CHANGE OF DIRECTION AND ADJACENT TO EACH STREETLIGHT. INSTALL 6" 6 SACK CONCRETE CAP AND CLEAN PEA GRAVEL. STAMP THE LETTERS "SL" 2-1/2" TALL INTO THE FINISHED CONCRETE USING A STAMP DESIGNED FOR THAT PURPOSE. "POINT OF SERVICE" PULL BOX LID SHALL BE VANDAL RESISTANT LOCKING LIDS OR APPROVED EQUIVALENT WITH NO CONCRETE OR PEA GRAVEL. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION. CONTRACTOR SHALL PROVIDE TEMPORARY LID DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH TWO (2) CLAMPING JAWS AND BE KEYED TO THE CITY OF FRESNO KEY. PULL BOXES IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE-FOOT RING OF CONCRETE TO THE DEPTH OF THE PULL BOX AND EXTENSION, AND ALL CONDUITS SHALL ENTER THESE PULL BOXES THROUGH THE BOTTOM, USING 90 DEGREE ELBOWS, AND SHALL EXTEND 3 TO 5 INCHES ABOVE THE FINISHED GROUT. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LID(S) TO A MINIMUM TORQUE SPEC OF 25 FOOT POUNDS. UPON PROJECT COMPLETION CONTRACTOR SHALL INSTALL LOCKING LID PLUGS.
6. IF THE SERVICE PEDESTAL IS EQUIPPED WITH A LIGHTING CONTACTOR AND NO MASTER PHOTO CONTROL IS INSTALLED, THE CONTRACTOR SHALL INSTALL A MASTER PHOTO CONTROL ATOP A 30' TALL SIGNAL POLE ADJACENT TO THE SERVICE PEDESTAL, OR ATOP THE NEAREST STREETLIGHT POLE. THE MASTER PHOTO CONTROL SHALL BE WIRED BACK TO THE SERVICE PEDESTAL USING THREE NO. 12 AWG STRANDED COPPER WIRES COLOR MATCHED TO THE PEC. THE PEC WILL BE MOUNTED USING HARDWARE MANUFACTURED FOR THAT PURPOSE, OR FABRICATED HARDWARE APPROVED BY THE TSSL SUPERVISOR. IF THE PEDESTAL IS NOT EQUIPPED WITH A LIGHTING CONTACTOR THE CONTRACTOR SHALL UPGRADE THE PEDESTAL TO MEET THE LATEST C.O.F. STANDARDS.
7. ALL STREETLIGHTS AND SAFETY LIGHTS FED FROM A PEDESTAL EQUIPPED WITH A CONTACTOR SHALL BE SWITCHED BY THAT CONTACTOR, AND THEIR PEC'S REPLACED WITH SHORTING CAPS.
8. ALL WORK SHALL COMPLY WITH CITY OF FRESNO STANDARD DRAWINGS NOS. E-1 THROUGH E-37, AND CITY OF FRESNO STANDARD SPECIFICATIONS.
9. LUMINAIRE SHALL BE A "LOCAL STREETS AND MID-BLOCK OF MAJOR STREETS" LUMINAIRE SELECTED FROM THE CITY OF FRESNO APPROVED LED STREET LIGHT FIXTURE LIST AVAILABLE FOR DOWNLOAD AT HTTPS://WWW.FRESNO.GOV/STANDARDS IN THE TECHNICAL LIBRARY.

PROJECT NOTES (SHEETS E-1 THROUGH E-9 ONLY):

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE CITY OF FOWLER STANDARDS, STATE OF CALIFORNIA "STRANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, AND THE NATIONAL ELECTRICAL CODE.
2. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT WITH THE PG&E STREET LIGHT NUMBERS.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No. C 60271 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

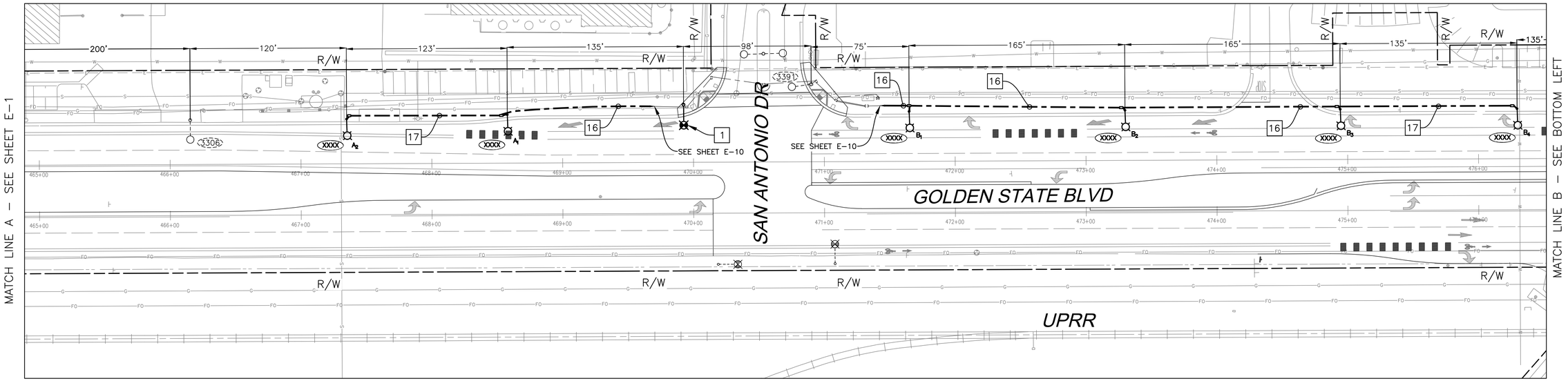
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

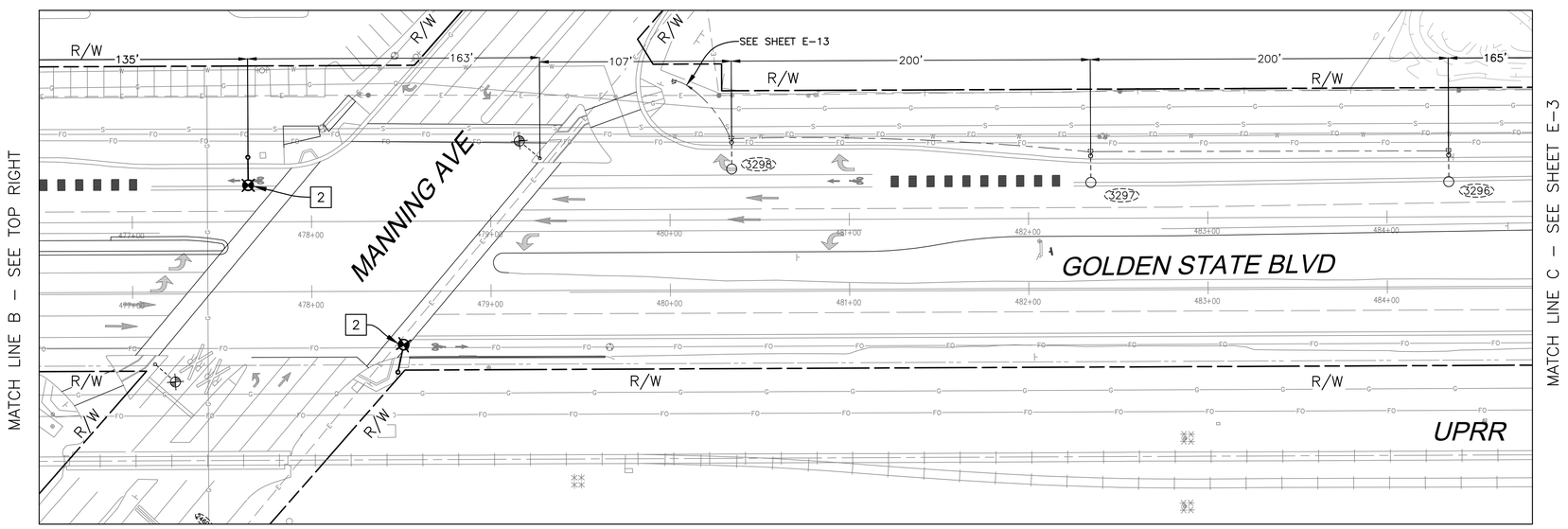
THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-1 SHEET NO. 108 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg PLOT DATE: 4/6/2021 11:15:32 AM CAD USER: CAYALA





POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
A_1	GOLDEN STATE BLVD	STA 468 + 57.80, 36.99' L	SB
A_2	GOLDEN STATE BLVD	STA 467 + 34.94, 34.14' L	SB
B_1	GOLDEN STATE BLVD	STA 471 + 64.91, 38.17' L	SB
B_2	GOLDEN STATE BLVD	STA 473 + 29.90, 38.28' L	SB
B_3	GOLDEN STATE BLVD	STA 474 + 94.48, 38.38' L	SB
B_4	GOLDEN STATE BLVD	STA 476 + 29.59, 38.24' L	SB

USA
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BEFORE YOU DIG,
CALL
1-800-227-2600

SCALE: 1" = 40'

		DATE	RECORD DRAWING	DATE
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE
PLANS
FOR
DESIGN
SUPERVISING ENGINEER
DATE

REGISTERED PROFESSIONAL ENGINEER LUIS RIOS No. C 82071 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD
STREET LIGHT PLAN

DRAWING NO. E-2 SHEET NO. 109 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
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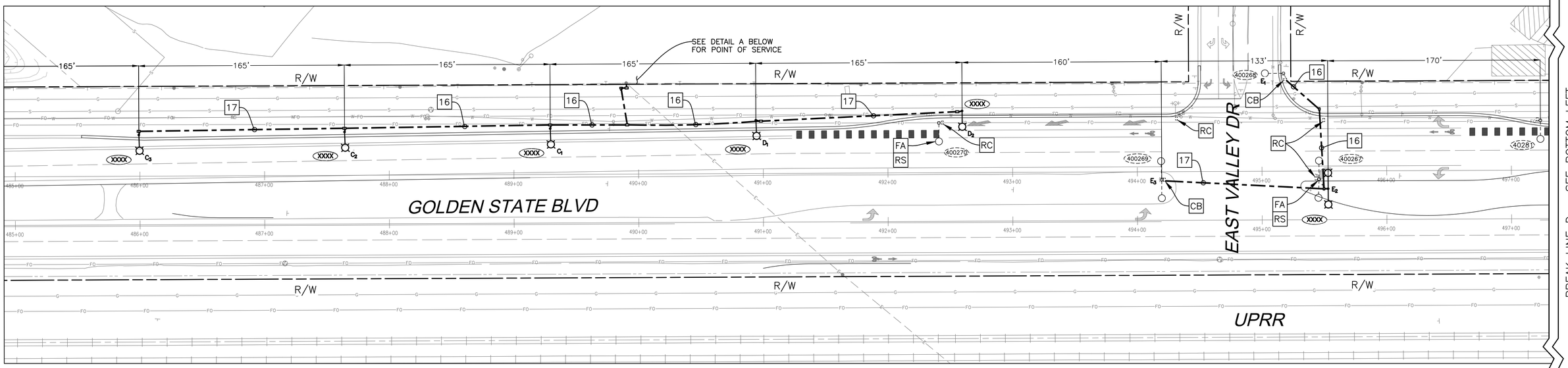
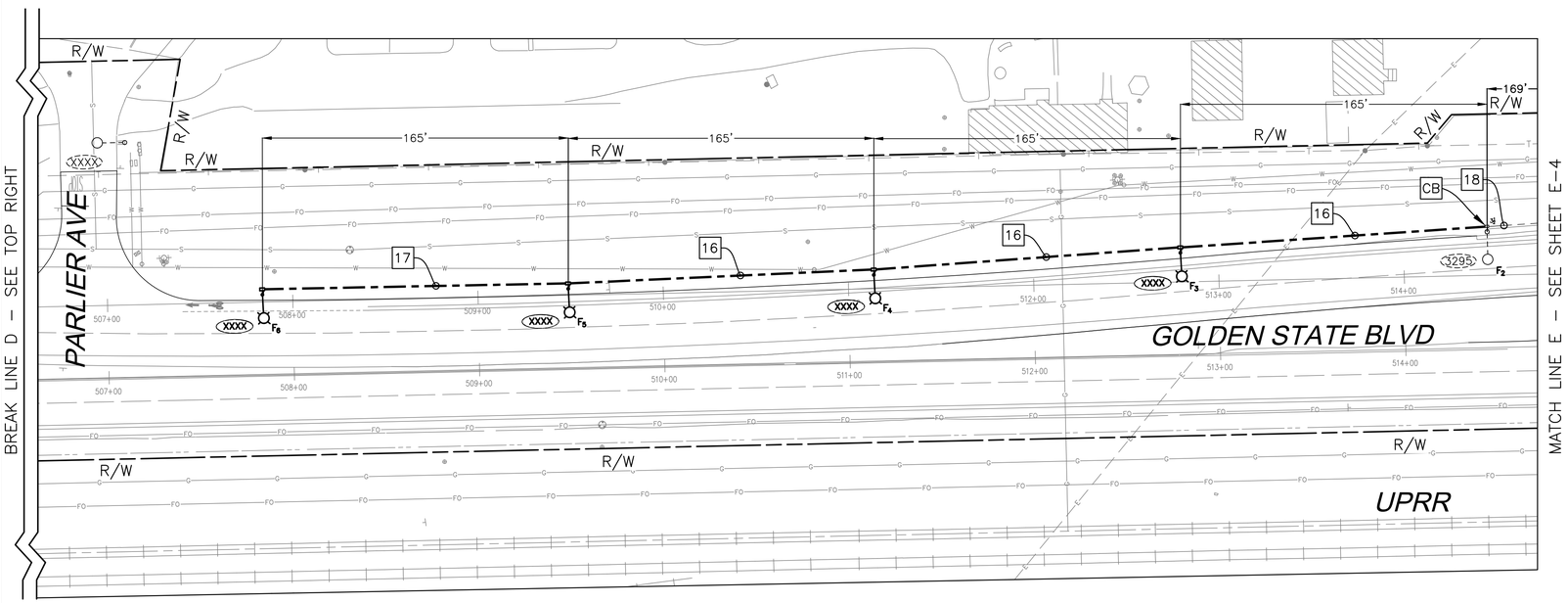
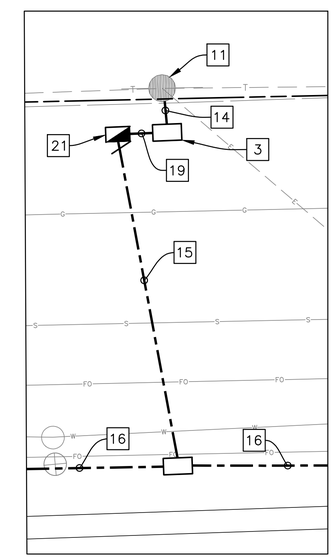
CAD USER: CAYALA





POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
C_1	GOLDEN STATE BLVD	STA 489 + 29.26, 36.70' L	SB
C_2	GOLDEN STATE BLVD	STA 487 + 64.27, 34.74' L	SB
C_3	GOLDEN STATE BLVD	STA 485 + 99.30, 33.01' L	SB
D_1	GOLDEN STATE BLVD	STA 490 + 94.22, 42.76' L	SB
D_2	GOLDEN STATE BLVD	STA 492 + 59.61, 49.41' L	SB
E_2	GOLDEN STATE BLVD	STA 495 + 52.94, 14.18' R	SB
F_3	GOLDEN STATE BLVD	STA 512 + 79.51, 15.68' L	SB
F_4	GOLDEN STATE BLVD	STA 511 + 13.83, 7.39' L	SB
F_5	GOLDEN STATE BLVD	STA 509 + 48.77, 3.48' X	SB
F_6	GOLDEN STATE BLVD	STA 507 + 83.67, 3.92' X	SB



POINT OF SERVICE – DETAIL A
NO SCALE

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1-800-227-2600

0 40' 80'
SCALE: 1" = 40'

ALL EXISTING STREET LIGHTING PULL BOXES ARE CONCRETE FILLED AND CITY HAS INDICATED THAT THEY DO NOT HAVE ANY PLANS FOR THESE LIGHTING CURCUITS. THEREFORE (ABSENT THE REMOVAL OF THE CONCRETE INSIDE THESE PULL BOXES) THE ONLY WAY TO DETERMINE THE EXISTING LAYOUT OF THE LIGHTING CONDUIT RUNS AND WIRING CIRCUIT IS TO HAVE A JOINT FIELD MEETING WITH CITY ELECTRICAL MAINTENANCE STAFF.

	DATE	RECORD DRAWING	
DESIGNED: J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN: C. AYALA-MAGANA	04/06/2021		
CHECKED: J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS BENAVIDES No. C 80071 12/31/2022 CIVIL STATE OF CALIFORNIA

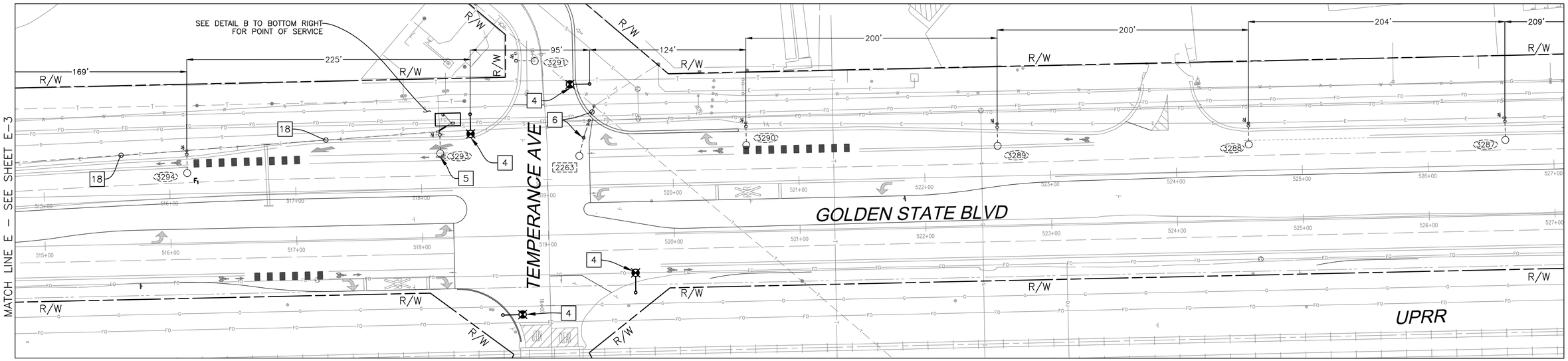
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

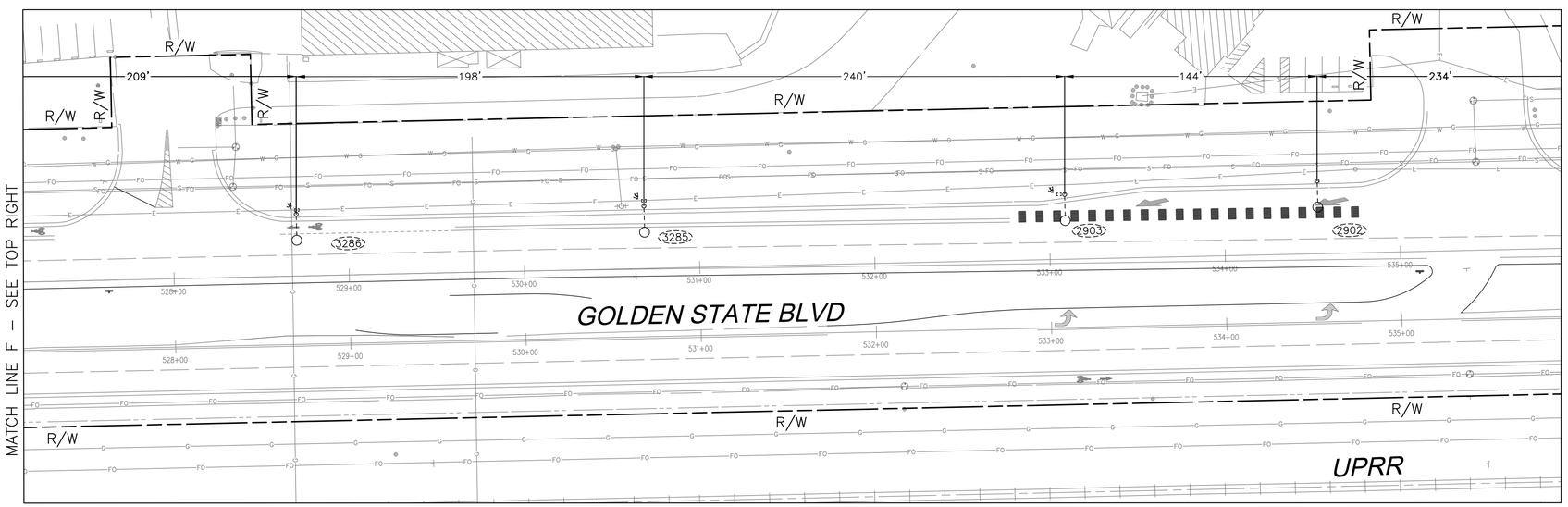
THE CITY OF FOWLER CALIFORNIA 1908

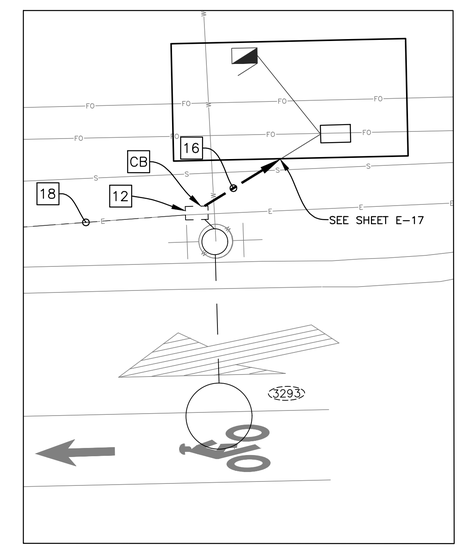
DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-3 SHEET NO. 110 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
PLOT DATE: 4/6/2021 11:16:06 AM
CAD USER: CAYALA







POINT OF SERVICE – DETAIL B
NO SCALE

ALL EXISTING STREET LIGHTING PULL BOXES ARE CONCRETE FILLED AND CITY HAS INDICATED THAT THEY DO NOT HAVE ANY PLANS FOR THESE LIGHTING CURCUITS. THEREFORE (ABSENT THE REMOVAL OF THE CONCRETE INSIDE THESE PULL BOXES) THE ONLY WAY TO DETERMINE THE EXISTING LAYOUT OF THE LIGHTING CONDUIT RUNS AND WIRING CIRCUIT IS TO HAVE A JOINT FIELD MEETING WITH CITY ELECTRICAL MAINTENANCE STAFF.

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
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1-800-227-2600

0 40' 80'
SCALE: 1" = 40'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No. C 79241 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-4 SHEET NO. 111 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
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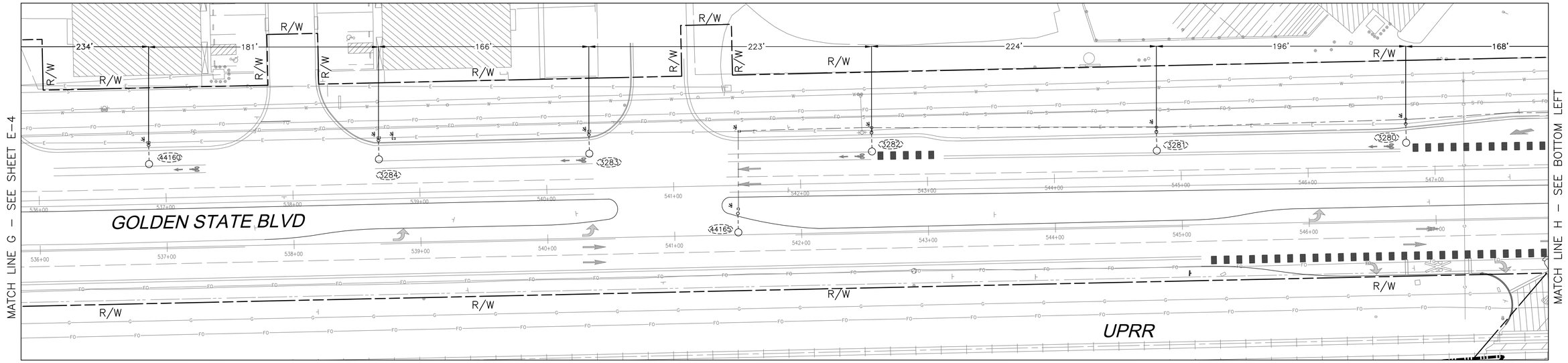
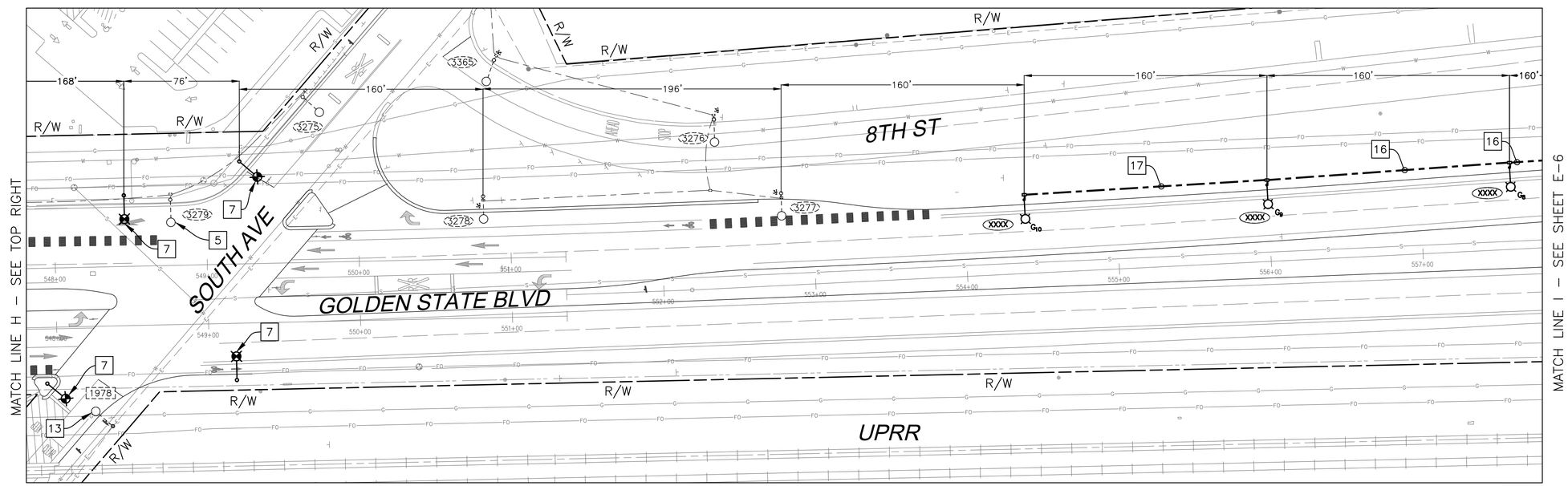
CAD USER: CAYALA





POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
G_8	GOLDEN STATE BLVD	STA 557 + 59.63, 53.81' L	SB
G_9	GOLDEN STATE BLVD	STA 555 + 99.63, 50.34' L	SB
G_{10}	GOLDEN STATE BLVD	STA 554 + 39.63, 48.54' L	SB

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1-800-227-2600

SCALE: 1" = 40'

ALL EXISTING STREET LIGHTING PULL BOXES ARE CONCRETE FILLED AND CITY HAS INDICATED THAT THEY DO NOT HAVE ANY PLANS FOR THESE LIGHTING CURCUITS. THEREFORE (ABSENT THE REMOVAL OF THE CONCRETE INSIDE THESE PULL BOXES) THE ONLY WAY TO DETERMINE THE EXISTING LAYOUT OF THE LIGHTING CONDUIT RUNS AND WIRING CIRCUIT IS TO HAVE A JOINT FIELD MEETING WITH CITY ELECTRICAL MAINTENANCE STAFF.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE
PLANS FOR
SUPERVISING ENGINEER DESIGN DATE

STEVEN D. TOM REGISTERED PROFESSIONAL ENGINEER No. C 39671 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

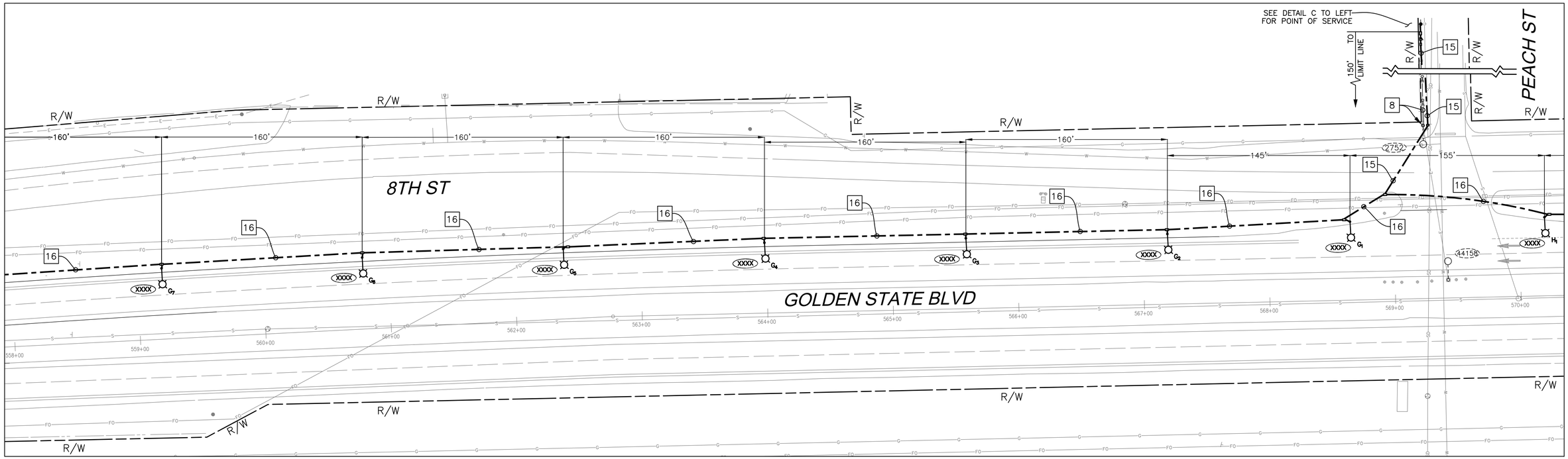
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

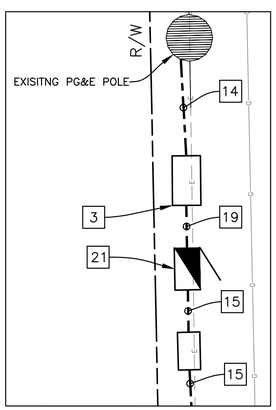
CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-5 SHEET NO. 112 TOTAL 142

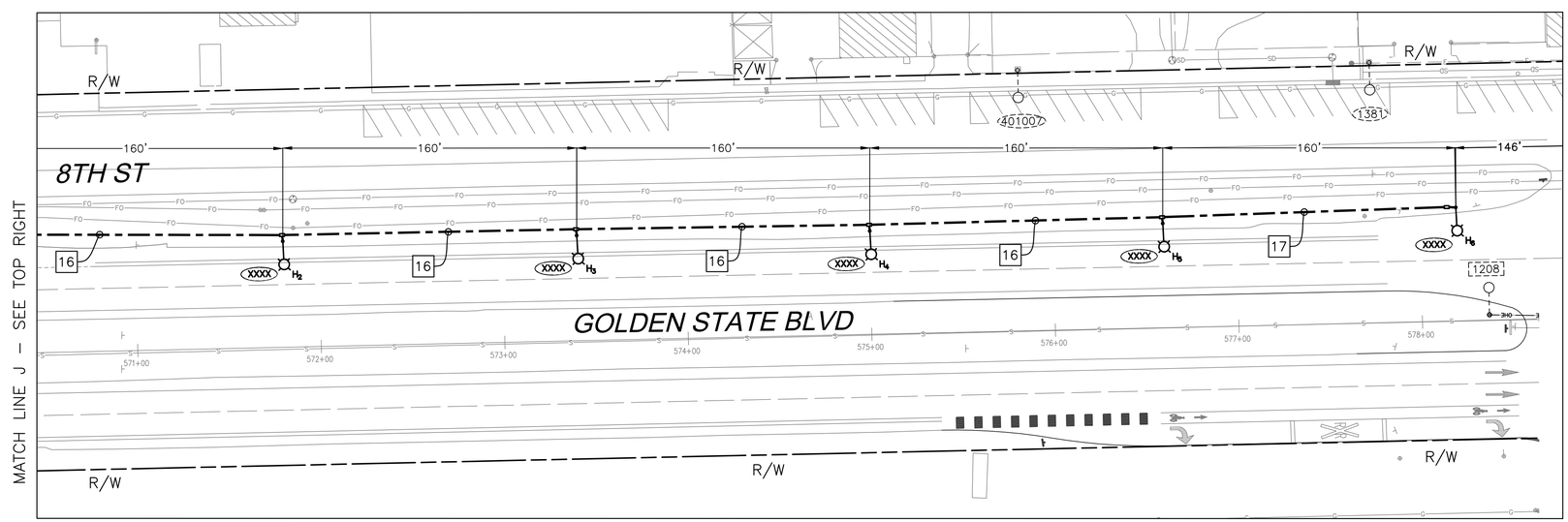
PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
PLOT DATE: 4/6/2021 11:29:51 AM
CAD USER: CAYALA





POINT OF SERVICE – DETAIL C
NO SCALE

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
G_1	GOLDEN STATE BLVD	STA 568 + 65.10, 62.47' L	SB
G_2	GOLDEN STATE BLVD	STA 567 + 19.49, 55.97' L	SB
G_3	GOLDEN STATE BLVD	STA 565 + 58.99, 56.03' L	SB
G_4	GOLDEN STATE BLVD	STA 563 + 98.59, 56.06' L	SB
G_5	GOLDEN STATE BLVD	STA 562 + 39.78, 55.76' L	SB
G_6	GOLDEN STATE BLVD	STA 560 + 79.61, 56.95' L	SB
G_7	GOLDEN STATE BLVD	STA 559 + 19.60, 56.39' L	SB
H_1	GOLDEN STATE BLVD	STA 570 + 19.94, 62.59' L	SB
H_2	GOLDEN STATE BLVD	STA 571 + 80.23, 57.76' L	SB
H_3	GOLDEN STATE BLVD	STA 573 + 40.43, 57.36' L	SB
H_4	GOLDEN STATE BLVD	STA 575 + 0.09, 56.25' L	SB
H_5	GOLDEN STATE BLVD	STA 576 + 59.72, 56.83' L	SB
H_6	GOLDEN STATE BLVD	STA 578 + 19.53, 62.03' L	SB



USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1-800-227-2600

0 40' 80'
SCALE: 1" = 40'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STAMP REGISTERED PROFESSIONAL ENGINEER JOHN LUIS BENAVIDES No. C 86871 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

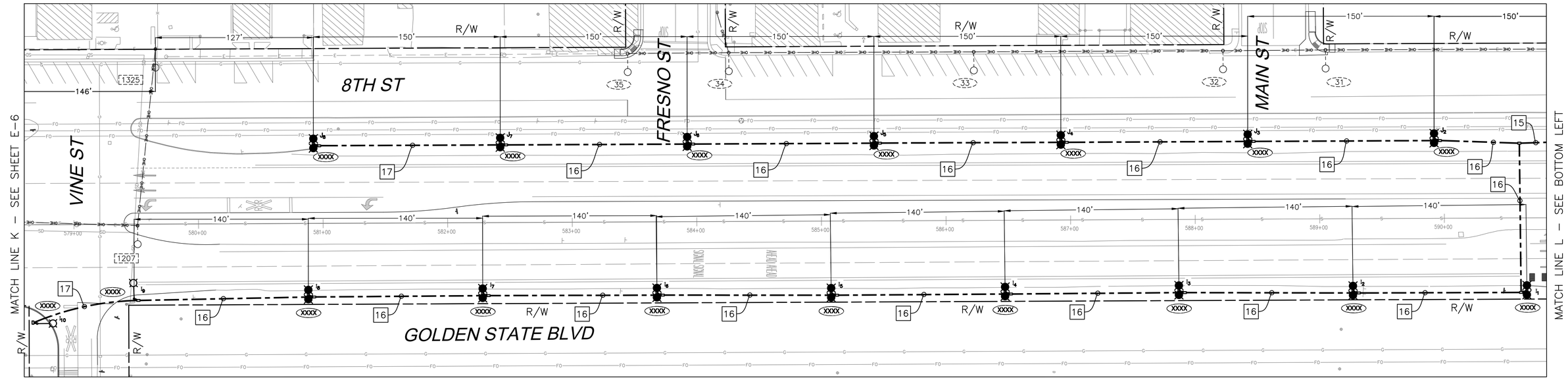
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

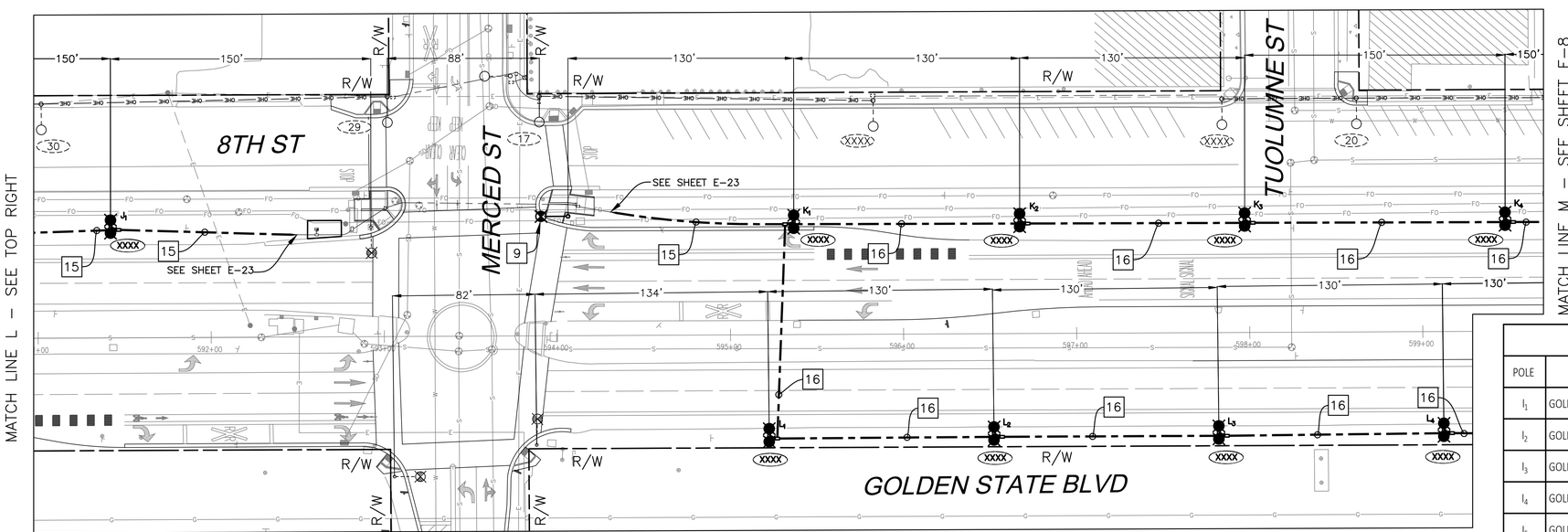
CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-6 SHEET NO. 113 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg PLOT DATE: 4/6/2021 11:18:24 AM CAD USER: CAYALA





POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
I_9	GOLDEN STATE BLVD	STA 579 + 48.04, 59.55' R	NB
I_{10}	GOLDEN STATE BLVD	STA 578 + 70.13, 79.10' R	NB
J_1	GOLDEN STATE BLVD	STA 591 + 42.05, 64.19' L	SB
J_2	GOLDEN STATE BLVD	STA 589 + 92.02, 64.20' L	SB
J_3	GOLDEN STATE BLVD	STA 588 + 42.42, 64.21' L	SB
J_4	GOLDEN STATE BLVD	STA 586 + 92.45, 64.22' L	SB
J_5	GOLDEN STATE BLVD	STA 585 + 42.45, 64.23' L	SB
J_6	GOLDEN STATE BLVD	STA 583 + 92.52, 64.24' L	SB
J_7	GOLDEN STATE BLVD	STA 582 + 42.47, 64.25' L	SB
J_8	GOLDEN STATE BLVD	STA 580 + 92.47, 64.26' L	SB
K_1	GOLDEN STATE BLVD	STA 595 + 36.84, 65.14' L	SB
K_2	GOLDEN STATE BLVD	STA 596 + 67.33, 65.42' L	SB
K_3	GOLDEN STATE BLVD	STA 597 + 97.35, 65.21' L	SB
K_4	GOLDEN STATE BLVD	STA 599 + 47.80, 64.97' L	SB
L_1	GOLDEN STATE BLVD	STA 595 + 22.11, 58.03' R	NB
L_2	GOLDEN STATE BLVD	STA 596 + 51.99, 57.65' R	NB
L_3	GOLDEN STATE BLVD	STA 597 + 81.87, 57.66' R	NB
L_4	GOLDEN STATE BLVD	STA 599 + 11.92, 56.74' R	NB

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
I_1	GOLDEN STATE BLVD	STA 590 + 66.00, 57.85' R	NB
I_2	GOLDEN STATE BLVD	STA 589 + 26.39, 57.63' R	NB
I_3	GOLDEN STATE BLVD	STA 587 + 86.68, 56.66' R	NB
I_4	GOLDEN STATE BLVD	STA 586 + 47.12, 57.11' R	NB
I_5	GOLDEN STATE BLVD	STA 585 + 7.54, 57.42' R	NB
I_6	GOLDEN STATE BLVD	STA 583 + 67.66, 56.69' R	NB
I_7	GOLDEN STATE BLVD	STA 582 + 27.84, 56.43' R	NB
I_8	GOLDEN STATE BLVD	STA 580 + 87.90, 56.85' R	NB

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1-800-227-2600

SCALE: 1" = 40'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STEVEN LUIS BENAVIDES No. C 60971 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

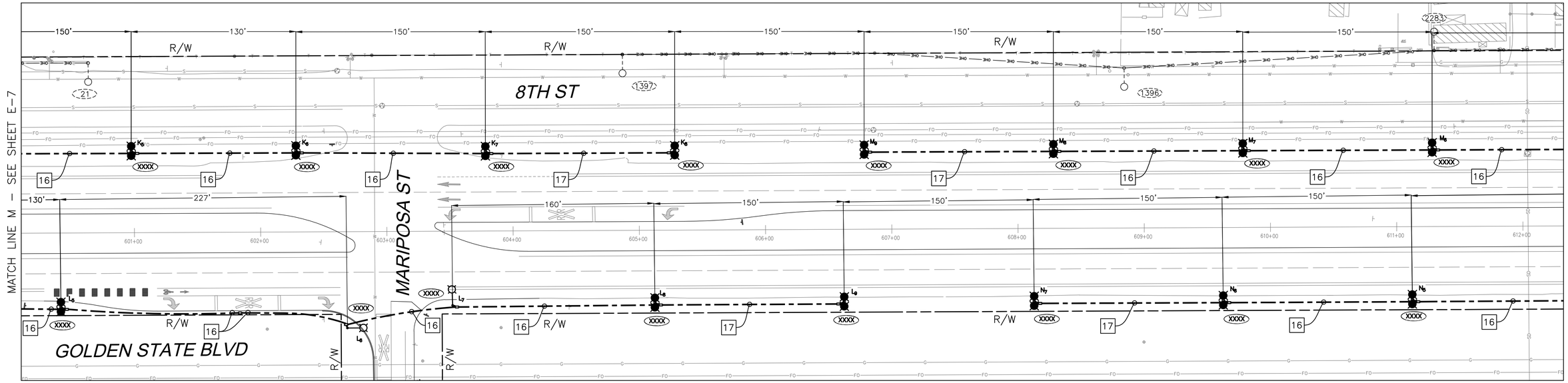
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

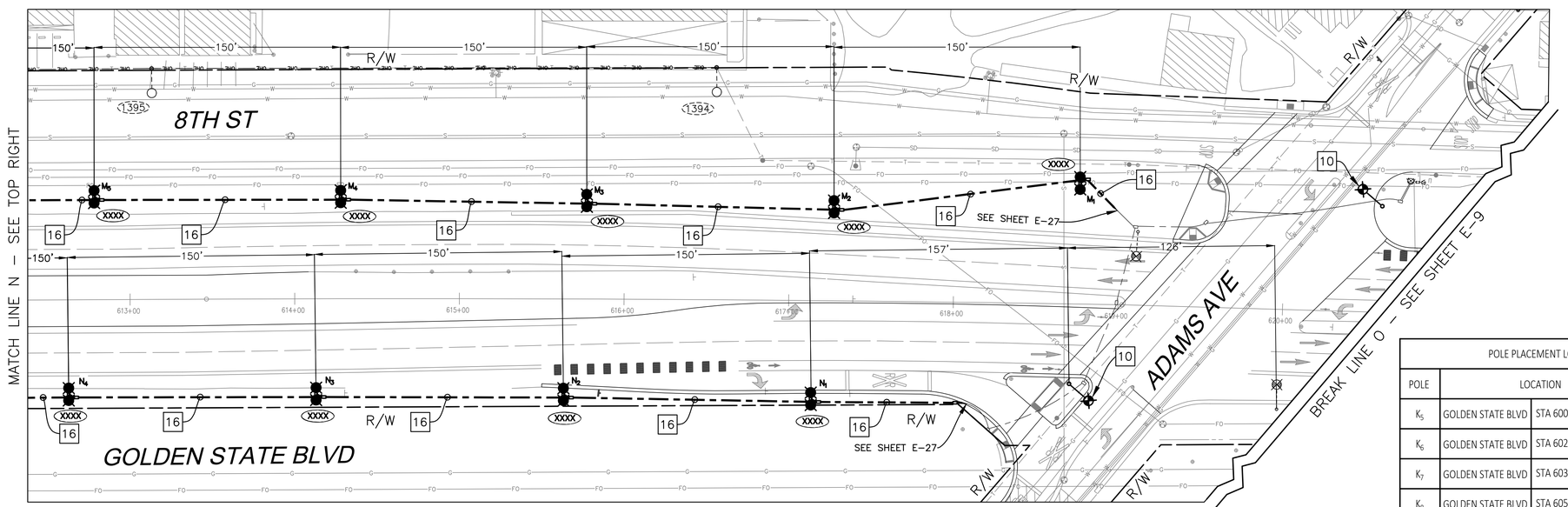
THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-7 SHEET NO. 114 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
PLOT DATE: 4/6/2021 11:38:51 AM
CAD USER: CAYALA





POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
K_5	GOLDEN STATE BLVD	STA 600 + 97.77, 64.72' L	SB
K_6	GOLDEN STATE BLVD	STA 602 + 28.22, 64.51' L	SB
K_7	GOLDEN STATE BLVD	STA 603 + 78.31, 63.27' L	SB
K_8	GOLDEN STATE BLVD	STA 605 + 28.34, 63.13' L	SB
L_5	GOLDEN STATE BLVD	STA 600 + 41.48, 58.56' R	NB
L_6	GOLDEN STATE BLVD	STA 602 + 68.40, 76.37' R	NB
L_7	GOLDEN STATE BLVD	STA 603 + 51.84, 58.80' R	NB

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
L_8	GOLDEN STATE BLVD	STA 605 + 12.07, 57.34' R	NB
L_9	GOLDEN STATE BLVD	STA 606 + 62.11, 57.26' R	NB
M_1	GOLDEN STATE BLVD	STA 618 + 75.92, 73.30' L	SB
M_2	GOLDEN STATE BLVD	STA 617 + 27.00, 57.06' L	SB
M_3	GOLDEN STATE BLVD	STA 615 + 77.16, 59.73' L	SB
M_4	GOLDEN STATE BLVD	STA 614 + 28.00, 62.00' L	SB
M_5	GOLDEN STATE BLVD	STA 612 +78.40, 62.43' L	SB
M_6	GOLDEN STATE BLVD	STA 611 + 28.35, 62.57' L	SB
M_7	GOLDEN STATE BLVD	STA 609 + 78.34, 62.71' L	SB
M_8	GOLDEN STATE BLVD	STA 608 + 28.30, 62.85' L	SB
M_9	GOLDEN STATE BLVD	STA 606 + 78.39, 62.99' L	SB
N_1	GOLDEN STATE BLVD	STA 617 + 13.98, 59.64' R	NB
N_2	GOLDEN STATE BLVD	STA 615 + 63.41, 57.97' R	NB
N_3	GOLDEN STATE BLVD	STA 614 + 12.84, 57.74' R	NB
N_4	GOLDEN STATE BLVD	STA 612 + 62.46, 57.35' R	NB
N_5	GOLDEN STATE BLVD	STA 611 + 12.13, 57.57' R	NB
N_6	GOLDEN STATE BLVD	STA 609 + 62.32, 57.63' R	NB
N_7	GOLDEN STATE BLVD	STA 608 + 12.56, 57.51' R	NB

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1–800–227–2600

0 40' 80'
SCALE: 1" = 40'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS RIOS No. 80071 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

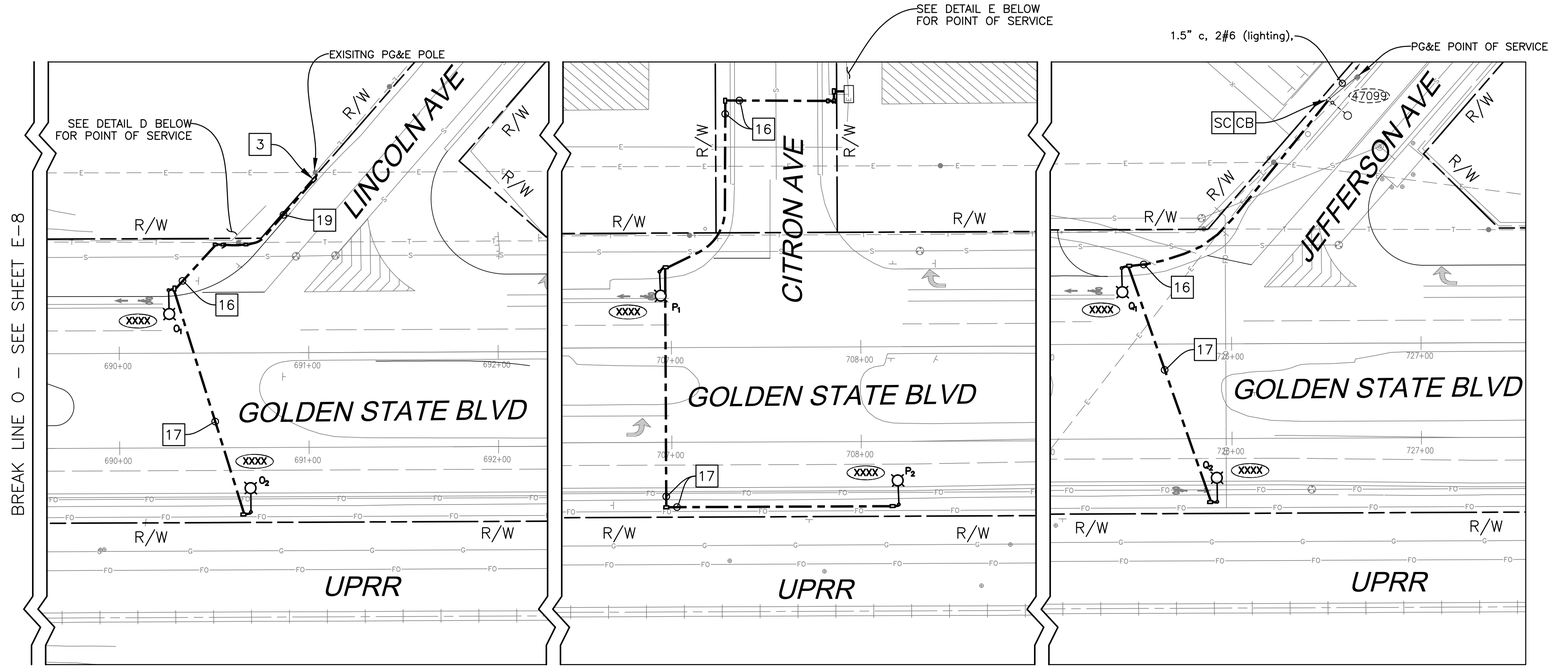
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

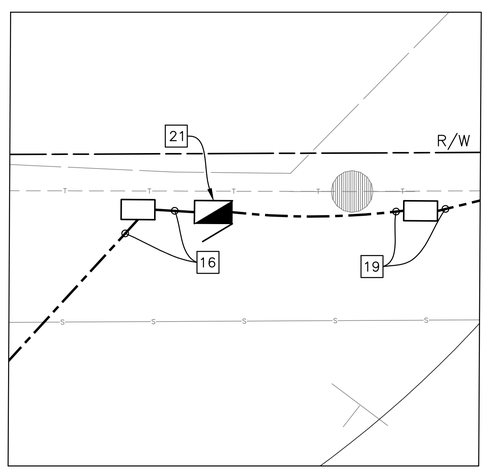
THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

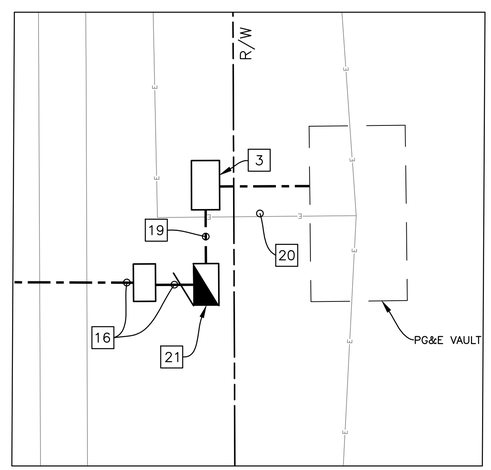
DRAWING NO. E-8 SHEET NO. 115 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
PLOT DATE: 4/6/2021 11:39:18 AM
CAD USER: CAYALA





POINT OF SERVICE – DETAIL D
NO SCALE



POINT OF SERVICE – DETAIL E
NO SCALE

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
O_1	GOLDEN STATE BLVD	STA 690 + 26.14, 83.32' L	SB
O_2	GOLDEN STATE BLVD	STA 690 + 69.14, 34.04' R	NB
P_1	GOLDEN STATE BLVD	STA 706 + 93.90, 40.05' L	SB
P_2	GOLDEN STATE BLVD	STA 708 + 19.74, 33.28' R	NB
Q_1	GOLDEN STATE BLVD	STA 725 + 42.13, 40.17' L	SB
Q_2	GOLDEN STATE BLVD	STA 725 + 92.16, 33.35' R	NB

USA
KNOW WHAT'S BELOW
BEFORE YOU DIG,
CALL
1-800-227-2600

0 40' 80'
SCALE: 1" = 40'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	04/06/2021		
CHECKED:	J. RIOS	04/06/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART D. DIXON
No. 60071
Exp. 6/30/22
CIVIL
STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

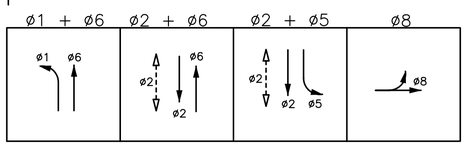
THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STAVE BLVD
STREET LIGHT PLAN

DRAWING NO. E-9 SHEET NO. 116 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Street Lighting Designs\Design\Fowler\009-009 Golden State PS&E - Fowler Lighting.dwg
PLOT DATE: 4/6/2021 11:19:15 AM
CAD USER: CAYALA

PROPOSED STEADY DEMAND SEQUENCE



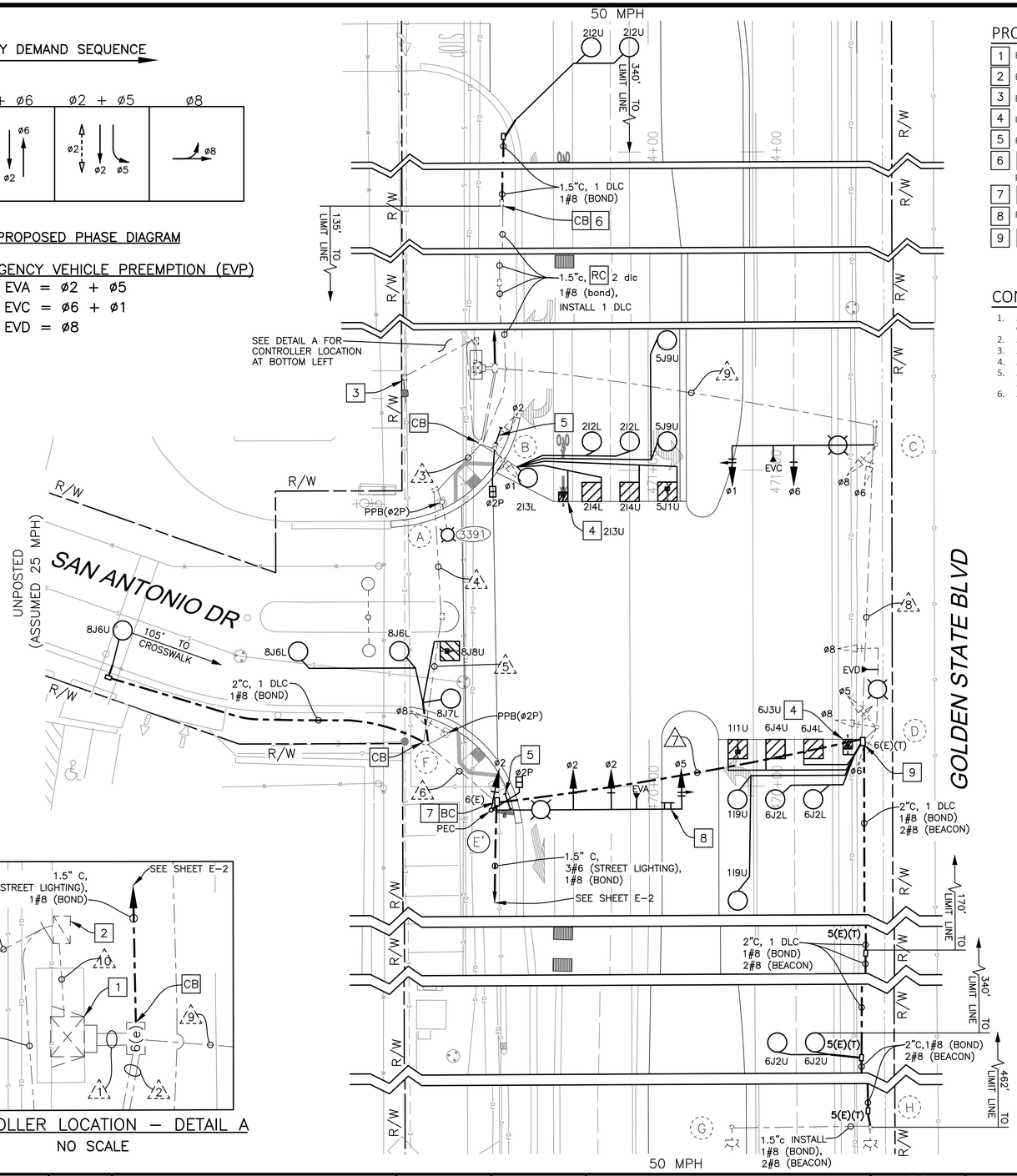
PROPOSED PHASE DIAGRAM

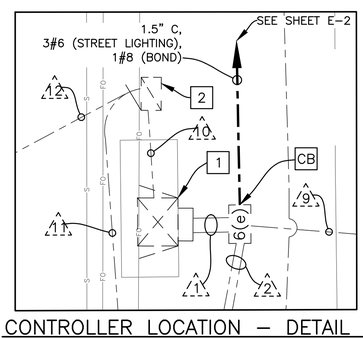
EMERGENCY VEHICLE PREEMPTION (EVP)

EVA = ø2 + ø5

EVC = ø6 + ø1

EVD = ø8





CONTROLLER LOCATION – DETAIL A

NO SCALE

PROJECT NOTES (SHEETS E-10 TO E-12 ONLY):

1. EXISTING 332L CONTROLLER CABINET WITH BATTERY BACK UP SYSTEM.
2. EXISTING TYPE III-BF 120/240V SERVICE PEDESTAL.
3. EXISTING POINT OF SERVICE LOCATION BOX.
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D ON SHEET ED-1.
5. FURNISH AND INSTALL TYPE I PED BARRICADE WITH R9-3.
6. RS EXISTING PULLBOX LID; FURNISH AND INSTALL NEW TRAFFIC RATED PULLBOX LID AND ADJUST PULLBOX TO NEW GRADE.
7. SC EXISTING #6 TO NEW #10 SAFETY LIGHTING ON NEW POLE E'
8. FURNISH AND INSTALL R73-2 (MOD) "U-TURN ONLY" PER DETAIL J ON SHEET ED-1.
9. RC EXISTING PULLBOX AND BC A NEW PULL BOX

CONSTRUCTION NOTES (SHEETS E-10 TO E-12 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR, SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
E'	GOLDEN STATE BLVD	STA 469 + 92.58, 44.02' L	SB

LEGEND (SHEETS E-10 TO E-12 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR.
- EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVX (DENOTES CHANNEL).
- NEW CONDUIT.
- EXISTING CONDUIT.
- EXISTING LUMINAIRE.
- CB INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- SC SPLICE NEW TO EXISTING CONDUCTORS.
- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE FINISH GRADE.

SCALE: 1" = 20'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/25/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/25/2021		
CHECKED:	J. RIOS	03/25/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JESUS LOIS BENAVIDES No. 80971 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

STILL VALID

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT SAN ANTONIO DR
TRAFFIC SIGNAL MODIFICATION PLAN

DRAWING NO. E-10 SHEET NO. 117 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E\ Traffic Signal Designs\2e Golden State Blvd at San Antonio Dr.dwg PLOT DATE: 3/25/2021 8:30:45 AM CAD USER: CAYALA

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE											
			1	2	3	4	5	6	7	8	9	10	11	12
			2-3"	2-3"	3"	3"	3"	3"	(4")	3"	3"	2"	1.5"	2"
CONDUIT FILL			22%	16%	22%	21%	21%	14%	1%	15%	20%	8%	43%	13%
7 COND. CABLE (VEH.) *	B	1,2 / 2P	1 / 1	1 / 1										
	C	1,6,8 / -	2 / -								2 / -			
	D	5,6,8 / -	2 / -							2 / -	2 / -			
5 COND. CABLE (PED) *	E'	2,5 / 2P	(1) / (1)	(1) / (1)	(1) / (1)	(1) / (1)	(1) / (1)	(1) / (1)						
	F	8 / -	1 / -	1 / -	1 / -	1 / -	1 / -							
TOTAL			6(1) / 1(1)	2(1) / 1(1)	1(1) / (1)	1(1) / (1)	1(1) / (1)	(1) / (1)		2 / -	4 / -			
3 COND. CABLE (PPB)	A	2	1	1	1									
	F	2	1	1	1	1	1							
TOTAL			2	2	2	1	1							
TYPE B DETECTOR LEAD-IN CABLE	Ø1		2							2	2			
	Ø2		3(3)	3(3)										
	Ø5		2	2										
	Ø6		3(2)							3(2)	3(2)			
	Ø8		2(2)	2(2)	2(2)	2(2)	2(2)							
	TOTAL DLC		12(7)	7(5)	2(2)	2(2)	(2)2			5(2)	5(2)			
# 2	SERVICE													3
# 4	SIGNAL POWER											2		
# 6	STREET LIGHTING			(3)	(3)	(3)	(3)	(3)					(6)	
# 8	SAFETY LIGHTS			2	2	2	2	2		2	2		2	
# 8	FLASHING BEACON				(2)	(2)	(2)	(2)	(2)				(2)	
# 8	BONDING WIRE		1	1	1	1	1	1	(1)	1	1	1	1	
# 12	PEU CONTROL				(3)	(3)	(3)	(3)					(3)	
EVP CABLE 3 COND.	EVA (S/B)		(1)	(1)	(1)	(1)	(1)	(1)						
	EVC (N/B)		(1)								(1)			
	EVD (E/B)		(1)							(1)	(1)			

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE EXISTING UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	VEH SIG MTG Mast Arm	VEH SIG MTG Pole	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
A	15TS	–	8'	–	–	–	–	2 (N)	LEFT (N)	78W (N)	3391	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY AND LUMINAIRE. FURNISH AND INSTALL NEW APS PPB ASSEMBLY AND LUMINAIRE.
B	1–A (10')	–	–	–	TV–2–T	2 (N)	SP–1–T (N)	–	–	–	–	REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD. FURNISH AND INSTALL NEW PEDESTRIAN HEAD.
C	26–3–113	45' (N)	15'	(N) MAT (N) MAS F=19'	SV–2–TA	–	–	–	–	78W (N)	3392	REMOVE AND SALVAGE EXISTING SMA AND ALL EQUIPMENT ATTACHED TO IT. FURNISH AND INSTALL NEW SNS "SAN ANTONIO DR" COMPLETE WITH MOUNTING HARDWARE TO NEW SMA. FURNISH AND INSTALL VEHICLE HEADS AND EVC ON SMA COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING LUMINAIRE. FURNISH AND INSTALL NEW LUMINAIRE.
D	19–1–70	25'	15'	MAS	SV–3–TB	–	–	–	–	78W (N)	3393	FURNISH AND INSTALL EVD AND SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING LUMINAIRE. FURNISH AND INSTALL NEW LUMINAIRE.
E	26–3–70	45'	15'	MAS MAS	SV–1–T	2	SP–1–T	–	–	61W	3394	REMOVE AND SALVAGE EXISTING SIGNAL POLE AND ALL EQUIPMENT ATTACHED TO IT.
E'	61–5–129 (N)	60' (N)	15' (N)	(N) MAT (N) MAS F=22' (N) MAS F=34'	SV–1–T (N)	2 (N)	SP–1–T (N)	–	–	78W (N)	3394 (N)	FURNISH AND INSTALL SNS "SAN ANTONIO DR" AND EVA COMPLETE WITH MOUNTING HARDWARE ON SMA. FURNISH AND INSTALL PEC ON TOP OF SIGNAL POLE.
F	1–A (10')	–	–	–	TV–1–T	–	–	2 (N)	RIGHT (N)	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL NEW APS PPB ASSEMBLY.
G	1–A–FBS	–	–	–	TV–1–T	–	–	–	–	–	–	EXISTING FLASHING BEACON MOUNTED ON EXISTING 1-A POLE WITH W3-3 SIGN TO REMAIN.
H	1–A–FBS	–	–	–	TV–1–T	–	–	–	–	–	–	EXISTING FLASHING BEACON MOUNTED ON EXISTING 1-A POLE WITH W3-3 SIGN TO REMAIN.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED WITH (N).
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND, 12" UPPERCASE, 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING AND 3M TYPE XI DG3 OR APPROVED EQUAL.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.

GENERAL NOTES (SHEETS E-10 TO E-12 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/25/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/25/2021		
CHECKED:	J. RIOS	03/25/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS RIOS No. 66007 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

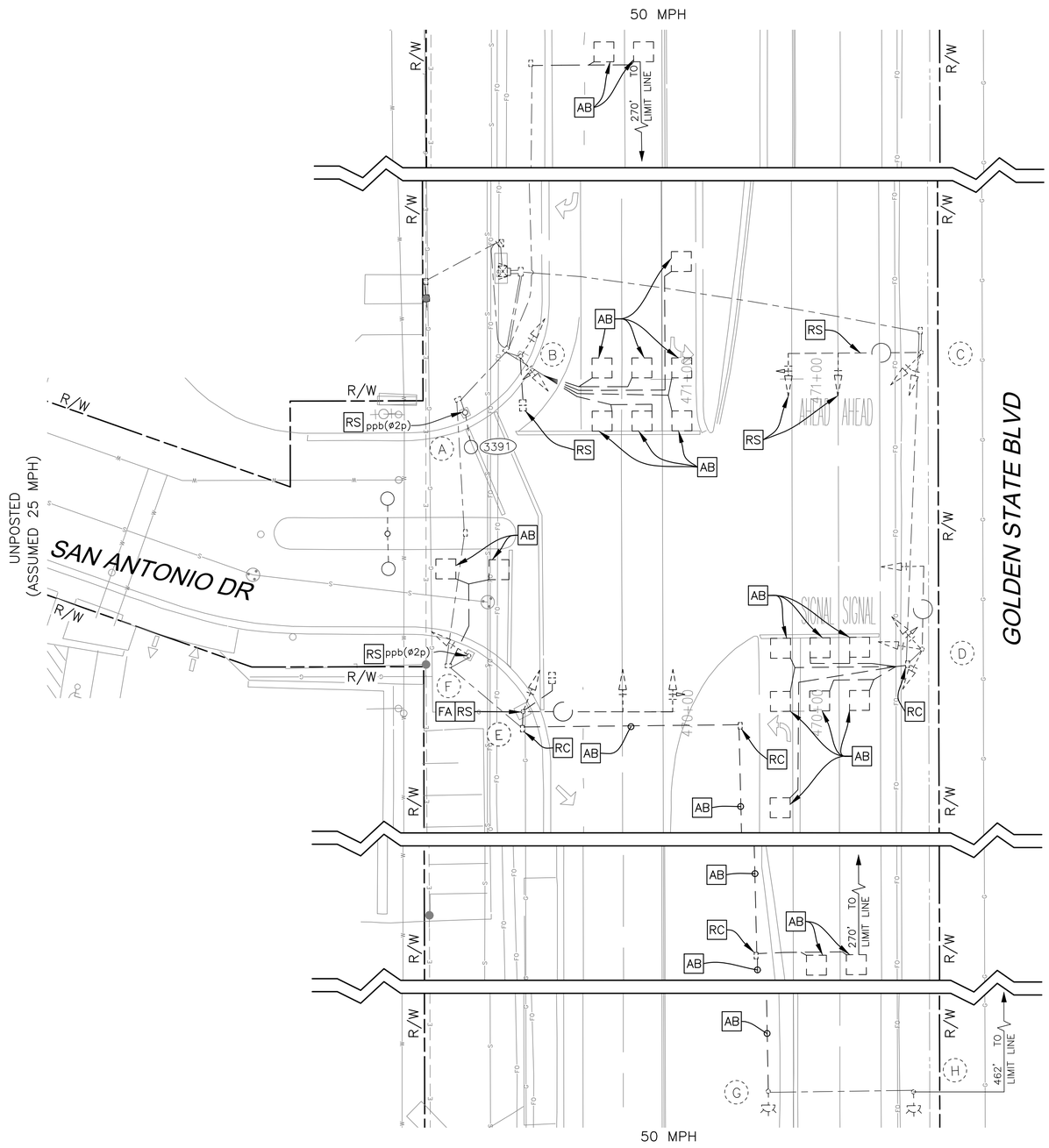
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT SAN ANTONIO DR
EQUIPMENT AND CONUCTOR SCHEDULE

DRAWING NO. E-11 SHEET NO. 118 TOTAL 142

PATH:Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E\ Traffic Signal Designs\2e Golden State Blvd at San Antonio Dr\Golden State Blvd at San Antonio Dr.dwg PLOT DATE: 3/25/2021 8:31:25 AM CAD USER: CAYALA



0 20' 40'
SCALE: 1" = 20'

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/25/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/25/2021		
CHECKED:	J. RIOS	03/25/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART D. JOSLIN REGISTERED PROFESSIONAL ENGINEER No. 61904 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

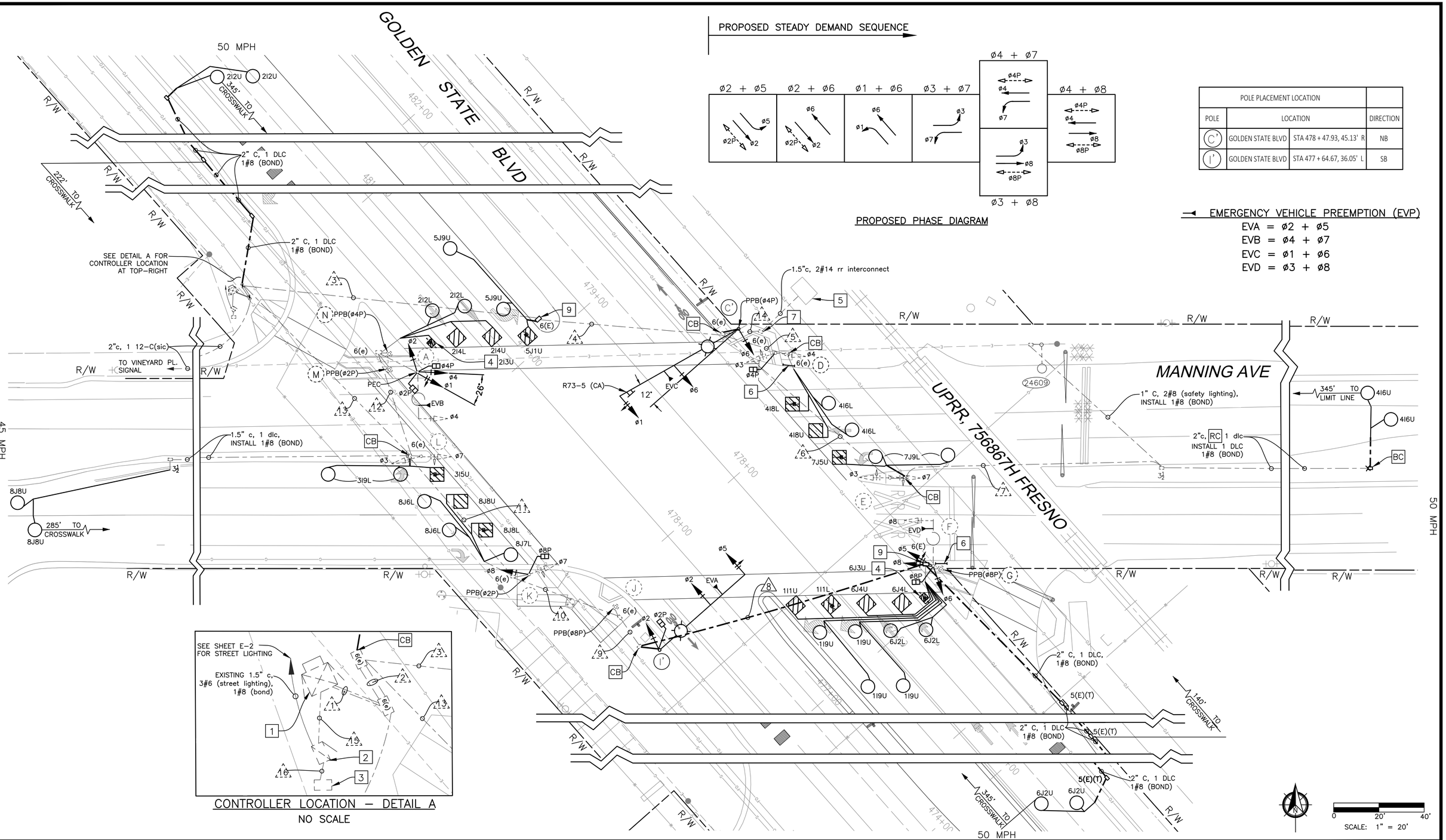
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT SAN ANTONIO DR
TRAFFIC SIGNAL DEMOLITION PLAN

DRAWING NO. E-12 SHEET NO. 119 TOTAL 142

PATH:Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\2e Golden State Blvd at San Antonio Dr.dwg PLOT DATE: 3/25/2021 8:32:00 AM CAD USER: CAYALA



PROPOSED STEADY DEMAND SEQUENCE

PROPOSED PHASE DIAGRAM

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
C'	GOLDEN STATE BLVD	STA 478 + 47.93, 45.13' R	NB
I'	GOLDEN STATE BLVD	STA 477 + 64.67, 36.05' L	SB

EMERGENCY VEHICLE PREEMPTION (EVP)

EVA = ø2 + ø5
EVB = ø4 + ø7
EVC = ø1 + ø6
EVD = ø3 + ø8

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/22/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/22/2021		
CHECKED:	J. RIOS	03/22/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS BENAVIDES No. 80071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT MANNING AVE
TRAFFIC SIGNAL MODIFICATION PLAN

DRAWING NO. E-13 SHEET NO. 120 TOTAL 142

PROJECT NOTES (SHEETS E-13 TO E-16 ONLY):

1. EXISTING 332 CABINET WITH BATTERY BACK UP SYSTEM. FURNISH AND INSTALL APS CENTRAL CONTROL UNIT.
2. EXISTING SERVICE ENCLOSURE
3. EXISTING PG&E POINT OF SERVICE PULL BOX
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D AS SHOWN ON ED-1.
5. EXISTING RAILROAD CONTROLLER TO REMAIN. EXISTING INTERCONNECTION TO THE RR SIGNAL SYSTEM SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
6. FURNISH AND INSTALL TYPE I PED BARRICADE WITH R9-3.
7. EXISTING RAILROAD PREEMPTION CABLING TO REMAIN. CONTACT UPRR PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
8. RS ALL EXISTING PEDESTRIAN PUSH BUTTONS ON EXISTING POLE.
9. RC EXISTING PULL BOX AND BC A NEW PULL BOX.

LEGEND (SHEETS E-13 TO E-16 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- EXISTING TYPE E LOOP DETECTOR.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR.
- NEW EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- NEW CONDUIT.
- EXISTING CONDUIT.
- EXISTING LUMINAIRE.
- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE FINISH GRADE.
- CB INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

GENERAL NOTES (SHEETS E-13 TO E-16 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

CONSTRUCTION NOTES (SHEETS E-13 TO E-16 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/22/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/22/2021		
CHECKED:	J. RIOS	03/22/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS BENAVIDES No. C 80971 Exp. 12/22 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT MANNING AVE
LEGEND AND NOTES

DRAWING NO. E-14 SHEET NO. 121 TOTAL 142

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			2-4"	2-4"	4"	4"	3"	2.5"	2"	4"	3"	3"	4"	3"	4"	2"	2"	2"
CONDUIT FILL			20%	20%	12%	11%	8%	11%	7%	11%	25%	25%	19%	16%	29%	4%	14%	13%
7 COND. CABLE (VEH.) *	A	1,2,4 / 2P,4P	1(1) / 1	1(1) / 1										1(1) / 1	1(1) / 1			
	C'	1,6 / -	(1) / -	(1) / -	(1) / -	(1) / -												
	D	3,4 / 4P	1 / (1)	1 / (1)	1 / (1)	1 / (1)	1 / (1)											
	E	3,7 / -	1 / -	1 / -	1 / -	1 / -		1 / -										
	F	5,6,8 / 8P	(2) / (1)	(2) / (1)						(2) / (1)	(2) / (1)	(2) / (1)	(2) / (1)		(2) / (1)			
	I'	2,5 / 2P	(1) / (1)	(1) / (1)							(1) / (1)	(1) / (1)	(1) / (1)		(1) / (1)			
5 COND. CABLE (PED) *	K	7,8 / 8P	1 / 1	1 / 1									1 / 1		1 / 1			
	L	3,7 / -	1 / -	1 / -											1 / -			
TOTAL			5(5) / 2(3)	5(5) / 2(3)	2(1) / (1)	2(1) / (1)	1 / (1)	1 / -		(2) / (1)	(3) / (2)	(3) / (2)	1(3) / 1(2)	1(1) / 1	3(4) / 2(2)			
3 COND. CABLE (PPB)	A	2P, 4P	1	1										1	1			
	C'	4P	(1)	(1)	(1)	(1)												
	F	8P	(1)	(1)						(1)	(1)	(1)	(1)		(1)			
	I'	2P, 8P	(1)	(1)							(1)	(1)	(1)		(1)			
TOTAL			1(3)	1(3)	(1)	(1)				(1)	(2)	(2)	(2)	1	1(2)			
TYPE C DETECTOR LEAD-IN CABLE	Ø1		(3)	(3)						(3)	(3)	(3)	(3)		(3)			
	Ø2		4(1)	4(1)										4	4			
	Ø3		2	2											2			
	Ø4		3(1)	3(1)	3(1)	3(1)	3	(1)	(1)									
	Ø5		(2)	(2)	(2)													
	Ø6		(5)	(5)						(5)	(5)	(5)	(5)		(5)			
	Ø7		(2)	(2)	(2)	(2)		(2)										
	Ø8		5	5									4		5			
	PED PUSH BUTTON										1	1						
	RR PRE-EMPTION		1	1	1	1										1		
	TOTAL DLC		15(14)	15(14)	4(5)	4(3)	3	(3)	(1)	(8)	1(8)	1(8)	4(8)	4	11(8)	1		
# 2	SERVICE																	3
# 4	SIGNAL POWER																2	
# 8	SAFETY LIGHTS		2	2	2	2		2	2	(2)	2	2	2	2	2		2	
# 8	BONDING WIRE		1	1	1	1	1	1	1	(1)	1	1	1	1	1	1	1	
# 12	PEU CONTROL		(3)	(3)										(3)	(3)		(3)	
EVP CABLE 3 COND.	EVA (S/B)		(1)	(1)							(1)	(1)	(1)		(1)			
	EVB (W/B)		(1)	(1)										(1)	(1)			
	EVC (N/B)		(1)	(1)	(1)	(1)												
	EVD (E/B)		(1)	(1)						(1)	(1)	(1)	(1)		(1)			

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	STANDARD Type	Sig. M.A.	Lum.M.A.	VEH SIG MTG Mast Arm	Pole	PED SIGNAL ø	MTG	PPB ø	ARROW	LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
A	17–1–70	20'	12'	MAS	SV–3–TB (N)	2 (N) 4 (N)	SP–2–T (N)	–	–	168W	44163	EXISTING SIGNAL STANDARD WITH SNS "GOLDEN STATE BLVD" TO REMAIN. REMOVE AND SALVAGE ALL EXISTING VEHICLE HEADS AND PEDESTRIAN HEADS ATTACHED TO POLE. FURNISH AND INSTALL NEW VEHICLE HEADS AND PEDESTRIAN HEADS ON POLE COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL EVB ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL PEC ON TOP OF POLE
B	1–A (10')	–	–	–	LT–2–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
C	17D–1–113	18'	12'	MAS	SV–1–T	–	–	4	LEFT	149W	24611	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT. POLE TYPE LISTED IS AN ESTIMATION.
C'	61–5–129 (N)	60' (N)	15' (N)	(N) MAT (N) $MAS_{F=27'}$	SV–1–T (N)	–	–	4 (N)	LEFT (N)	78W (N)	24611 (N)	POLE SHALL BE INSTALLED 12 DEGREES CLOCKWISE AS SHOWN ON PLANS. FURNISH AND INSTALL EVC AND R73-5 (CA) SIGN ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "MANNING AVE" ON POLE COMPLETE WITH MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T	4 (N)	SP–1–T (N)	–	–	–	–	REMOVE AND SALVAGE EXISTING PEDESTRIAN SIGNAL HEAD. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD COMPLETE WITH MOUNTING HARDWARE.
E	1–A (10')	–	–	–	LT–2–T	–	–	–	–	–	–	
F	17B–1–113	20'	12'	MAS	SV–3–TA (N)	8 (N)	SP–1–T (N)	–	–	168W	24615 44164	EXISTING SIGNAL STANDARD WITH SNS "GOLDEN STATE BLVD" TO REMAIN. REMOVE AND SALVAGE ALL EXISTING VEHICLE HEADS AND PEDESTRIAN HEAD ATTACHED TO POLE. FURNISH AND INSTALL NEW VEHICLE HEADS AND PEDESTRIAN HEAD ON POLE COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL EVD ON SMA COMPLETE WITH MOUNTING HARDWARE. POLE TYPE LISTED IS AN ESTIMATION.
G	PPB POST (2 ½")	–	–	–	–	–	–	8 (N)	LEFT (N)	–	–	EXISTING PPB POST TO REMAIN. REMOVE AND SALVAGE PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY.
H	1–A (10')	–	–	–	LT–2–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
I	16–1–113	15'	12'	MAS	SV–1–T	2	SP–1–T		–	149W	XXXXX	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT. POLE TYPE LISTED IS AN ESTIMATION.
I'	29–5–113 (N)	50' (N)	15' (N)	(N) MAT (N) $MAS_{F=20'}$	SV–1–T (N)	2 (N)	SP–1–T (N)	–	–	78W (N)	XXXXX (N)	FURNISH AND INSTALL EVA ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "MANNING AVE" ON SIGNAL POLE COMPLETE WITH MOUNTING HARDWARE.
J	PPB POST (2 ½")	–	–	–	–	–	–	8 (N)	LEFT (N)	–	–	EXISTING PPB POST TO REMAIN. REMOVE AND SALVAGE PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY.
K	1–A (10')	–	–	–	TV–2–T	8 (N)	SP–1–T (N)	2 (N)	RIGHT (N)	–	–	REMOVE AND SALVAGE EXISTING Ø8 VEHICLE HEAD, PEDESTRIAN SIGNAL HEAD, AND PPB ASSEMBLY. FURNISH AND INSTALL NEW Ø8 VEHICLE HEAD, PEDESTRIAN SIGNAL HEAD AND APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
L	1–A (10')	–	–	–	LT–2–T	–	–	–	–	–	–	
M	PPB POST (2 ½")	–	–	–	–	–	–	2 (N)	RIGHT (N)	–	–	EXISTING PPB POST TO REMAIN. REMOVE AND SALVAGE PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY.
N	PPB POST (2 ½")	–	–	–	–	–	–	4 (N)	RIGHT (N)	–	–	EXISTING PPB POST TO REMAIN. REMOVE AND SALVAGE PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY.
O	1–A–FBS	–	–	–	–	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING FBS AND ALL EQUIPMENT ATTACHED TO IT.
P	1–A–FBS	–	–	–	–	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING FBS AND ALL EQUIPMENT ATTACHED TO IT.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED WITH (N).
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND, 12" UPPERCASE, 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING AND 3M TYPE XI DG3 OR APPROVED EQUAL.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/22/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/22/2021		
CHECKED:	J. RIOS	03/22/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

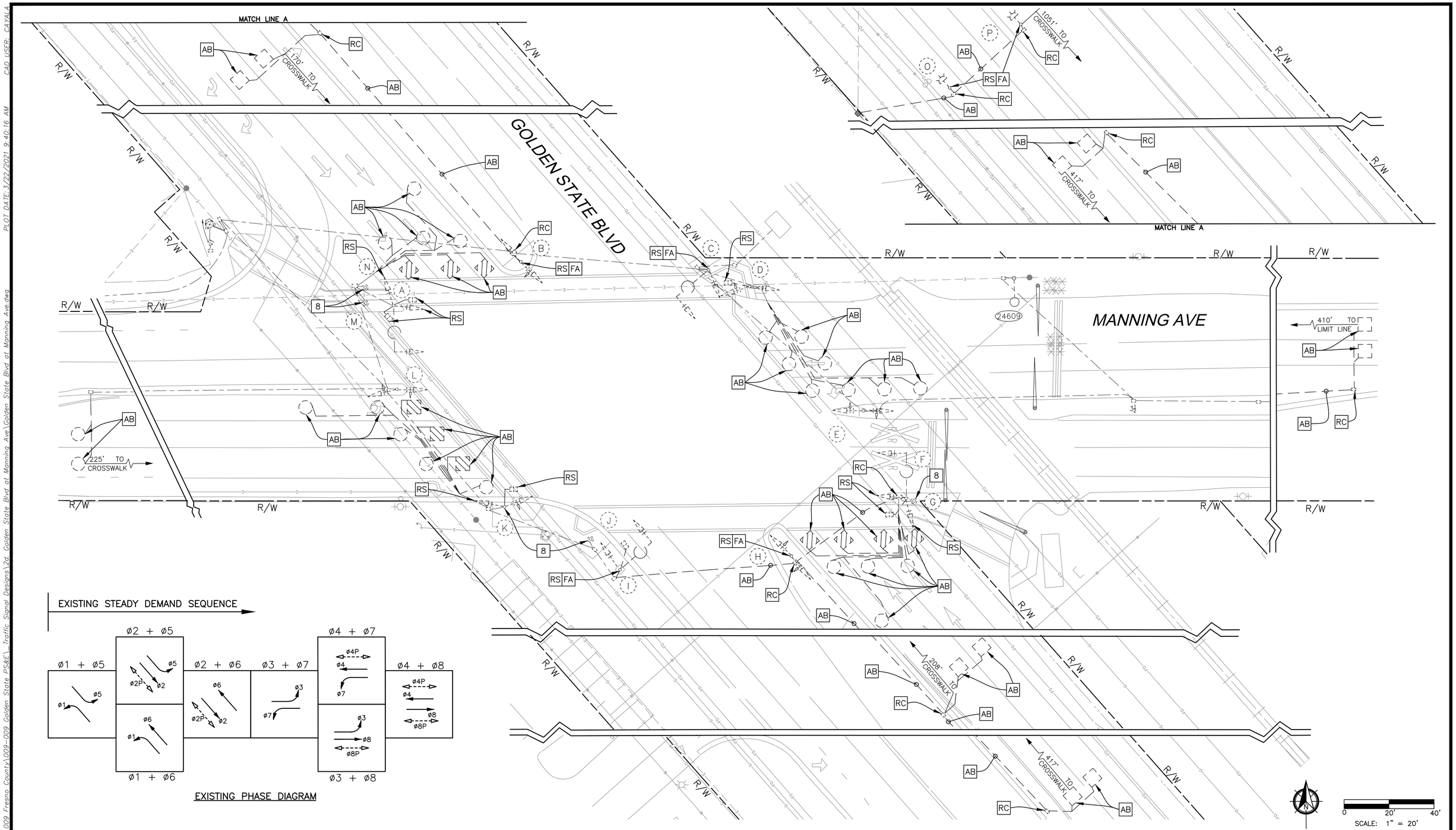
REGISTERED PROFESSIONAL ENGINEER LUIS BENAVIDES No. 90971 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT MANNING AVE
EQUIPMENT AND CONDUCTOR SCHEDULE

DRAWING NO. E-15 SHEET NO. 122 TOTAL 142



		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/22/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/22/2021		
CHECKED:	J. RIOS	03/22/2021		

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TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
JOSE LUIS RIOS
No. C 69971
Exp. 12/31/22
CIVIL
STATE OF CALIFORNIA

STUDY

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

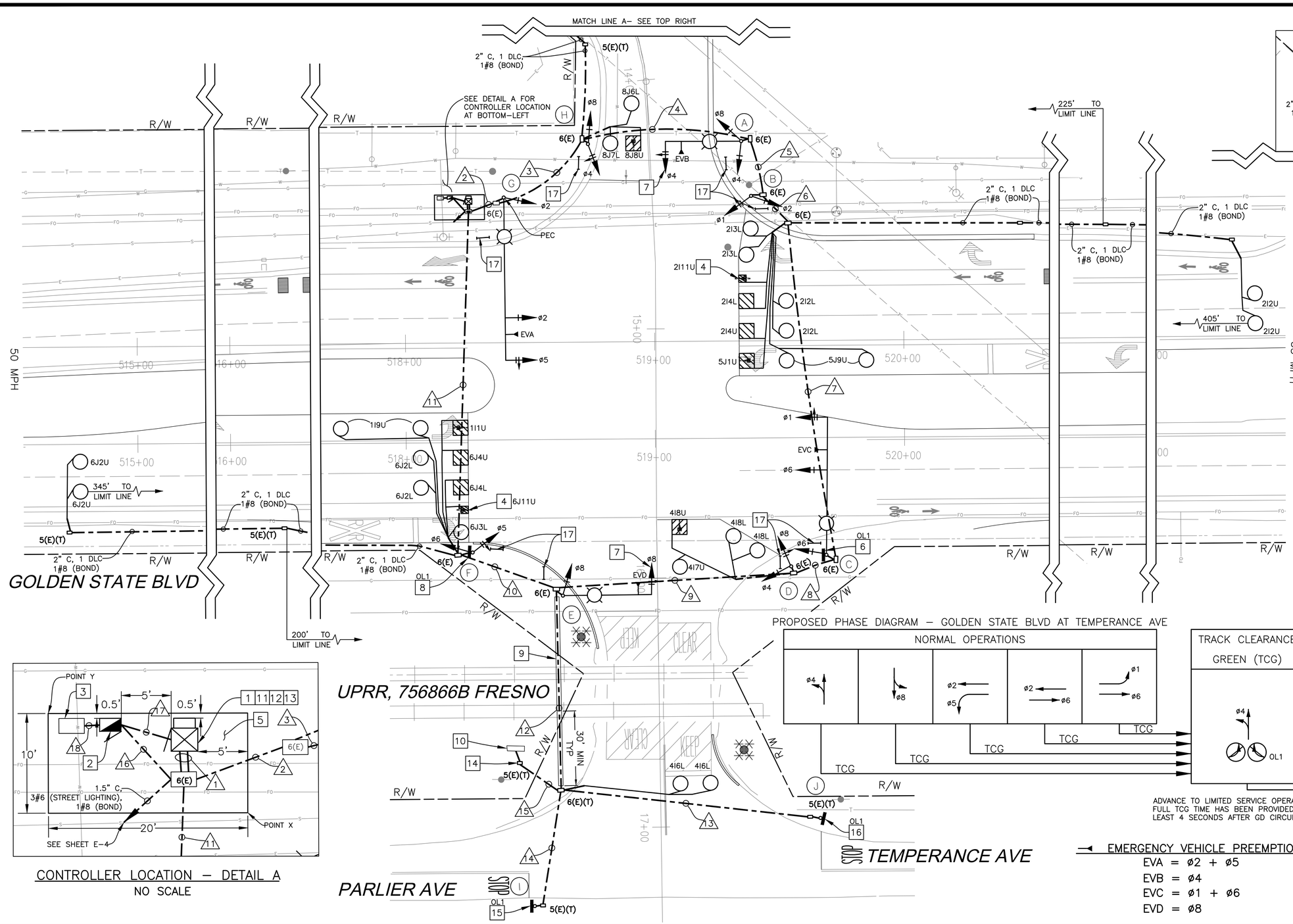
THE CITY OF FOWLER-CALIFORNIA 1909

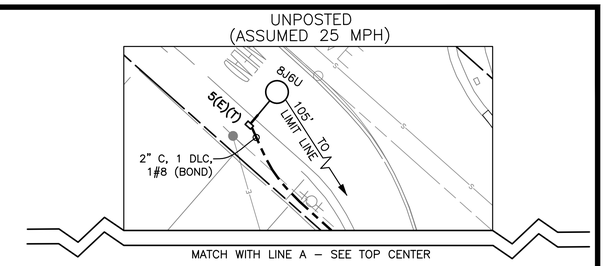
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT MANNING AVE
TRAFFIC SIGNAL DEMOLITION PLAN

DRAWING NO. E-16 SHEET NO. 123 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\2d Golden State Blvd at Manning Ave\Golden State Blvd at Manning Ave.dwg PLOT DATE: 3/22/2021 9:40:16 AM CAD USER: CAYALA



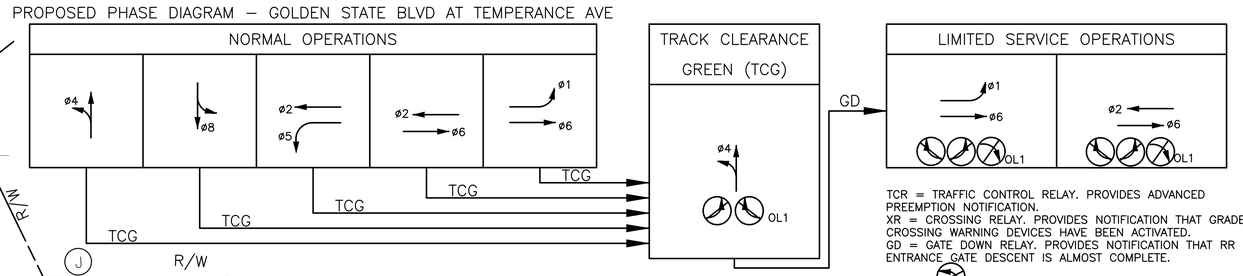


POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
A	GOLDEN STATE BLVD	STA 519 + 35.31, 80.21' L	SB
B	GOLDEN STATE BLVD	STA 519 + 39.12, 58.20' L	SB
C	GOLDEN STATE BLVD	STA 519 + 68.32, 47.11' R	NB
D	GOLDEN STATE BLVD	STA 519 + 54.15, 51.62' R	NB
E	GOLDEN STATE BLVD	STA 518 + 62.46, 62.69' R	NB
F	GOLDEN STATE BLVD	STA 518 + 26.34, 45.11' R	NB
G	GOLDEN STATE BLVD	STA 518 + 39.86, 58.27' L	SB
H	GOLDEN STATE BLVD	STA 518 + 73.83, 79.46' L	SB
I	***		
J	GOLDEN STATE BLVD	STA 519 + 65.17, 152.66' R	NB
POINT X	GOLDEN STATE BLVD	STA 518 + 32.05, 49.47' L	SB
POINT Y	GOLDEN STATE BLVD	STA 518 + 12.05, 59.47' L	SB

*** = POLE TO BE PLACED A MINIMUM OF 3 FEET FROM THE EDGE OF PAVEMENT AND ALIGNED WITH THE EXISTING ROW OF CROP IN ORDER TO MINIMIZE THE LIKELYHOOD OF IT BEING ACCIDENTALLY DAMAGED.

CONTROLLER LOCATION – DETAIL A
NO SCALE

PROPOSED PHASE DIAGRAM – GOLDEN STATE BLVD AT TEMPERANCE AVE



ADVANCE TO LIMITED SERVICE OPERATIONS WHEN FULL TCG TIME HAS BEEN PROVIDED AND AT LEAST 4 SECONDS AFTER GD CIRCUIT CLOSES.

TCR = TRAFFIC CONTROL RELAY. PROVIDES ADVANCED PREEMPTION NOTIFICATION.
XR = CROSSING RELAY. PROVIDES NOTIFICATION THAT GRADE CROSSING WARNING DEVICES HAVE BEEN ACTIVATED.
GD = GATE DOWN RELAY. PROVIDES NOTIFICATION THAT RR ENTRANCE GATE DESCENT IS ALMOST COMPLETE.

* = "NO LEFT–TURN" BLANKOUT SIGN IS ILLUMINATED WHILE XR CIRCUIT IS ACTIVE.
= "NO RIGHT–TURN" BLANKOUT SIGN IS ILLUMINATED WHILE XR CIRCUIT IS ACTIVE.

EMERGENCY VEHICLE PREEMPTION (EVP)
EVA = ø2 + ø5
EVB = ø4
EVC = ø1 + ø6
EVD = ø8

SCALE: 1' = 20"

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STEVEN L. LEITZ REGISTERED PROFESSIONAL ENGINEER No. 80071 Exp. 12/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT TEMPERANCE AVE
TRAFFIC SIGNAL PLAN

DRAWING NO. E-17 SHEET NO. 124 TOTAL 142

PROJECT NOTES (SHEETS E-17 TO E-19 ONLY):

1. FURNISH AND INSTALL TYPE 2070L CONTROLLER, NEW TYPE 332L CABINET WITH ALL ANCILLARY DEVICES FOR A FULL EIGHT PHASE OPERATION AS SPECIFIED IN THE SPECIFICATIONS. TYPE 332L CABINET SHALL INCLUDE TWO AUXILIARY BAYS. FURNISH AND INSTALL NEW BATTERY BACK-UP SYSTEM PER THE SPECIAL PROVISIONS. NEW MODEL 332L SHALL BE MODIFIED FOR RAILROAD PREEMPTION. FRONT DOOR OF ASSEMBLY SHALL FACE SOUTH. BATTERY BACK-UP EXTERNAL CABINET SHALL BE ON THE WEST SIDE OF THE CONTROLLER ASSEMBLY.
2. INSTALL NEW TYPE III-AF SERVICE CABINET. CONTRACTOR SHALL COORDINATE WITH PG&E FOR POINT OF SERVICE CONNECTION.
3. POINT OF SERVICE LOCATION BOX. CONTRACTOR TO COORDINATE WITH PG&E TO CONNECT AND SET METER.
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D AS SHOWN ON SHEET ED-1.
5. INSTALL 10' X 20' X 3.5" PCC PAD.
6. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL G AS SHOWN ON SHEET ED-1.
7. INSTALL 4-SECTION SIGNAL HEAD PER DETAIL H AS SHOWN ON SHEET ED-1
8. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL F AS SHOWN ON SHEET ED-1.
9. FURNISH AND INSTALL 3" TYPE I CONDUIT IN 4" GALVANIZED STEEL RIGID METALLIC CASING PER UPRR STANDARDS AND SPECIFICATIONS. 4" GALVANIZED STEEL CASING SHALL BE A MINIMUM OF 30 FEET FROM THE CENTERLINE OF THE TRACK IN A CROSS SECTION VIEW OF THE TRACKS. 4" GALVANIZED STEEL RIGID METALLIC CASING SHALL BE INSTALLED NO LESS THAN 4.5 FEET BELOW THE TIE OF THE RAIL AND SHALL BE INSTALLED USING JACKING OR DRILLING METHODS ONLY. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE RAILROAD AND FOLLOW RAILROAD REQUIREMENTS.
10. EXISTING RAILROAD CONTROLLER TO REMAIN.
11. THE ADVANCED PREEMPTION INTERCONNECTION SHALL BE CONFIGURED AS A "SUPERVISED" CIRCUIT. A PREEMPTION INTERCONNECTION CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. CONTRACTOR SHALL WORK WITH RAILROAD, AND BE RESPONSIBLE FOR APPROVAL, TO CONNECT TO THE ADVANCED PREEMPTION CIRCUIT. A "GATE-DOWN" CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. THE RAILROAD WILL PROVIDE THE GATE DOWN CIRCUIT FOR CONNECTION TO THE TRAFFIC SIGNAL CONTROLLER AS PART OF THE RAILROAD'S STANDARD DESIGN. A TRAFFIC SIGNAL HEALTH CIRCUIT SHALL BE IMPLEMENTED INTO THE SIGNAL CONTROLLER. THE TRAFFIC SIGNAL CONTROLLER SHALL BE PROGRAMMED WITH SECOND TRAIN LOGIC.
12. CONTRACTOR SHALL INSTALL THE FOLLOWING WARNING LABEL WITHIN THE TRAFFIC SIGNAL CONTROLLER CABINET:
    - IF THE TRAFFIC SIGNAL ENTERS FLASHING MODE, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF ROADWAY USERS OVER THE GRADE CROSSING.
    - IF THE TRAFFIC SIGNAL LOSES POWER OR ALL OF THE SIGNALS ARE DARK, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF THE ROADWAY USERS OVER THE GRADE CROSSING.
    - NOTIFY THE RAILROAD ONCE THE SIGNAL SYSTEM HAS BEEN RESTORED TO NORMAL OPERATION.
    - IF SIGNAL MAINTENANCE IS REQUIRED TO PERFORM A JOINT TEST OF THE PREEMPTION SYSTEM, NOTIFY THE RAILROAD.
13. CONTRACTOR SHALL INSTALL WARNING LABEL WITHIN CONTROLLER CABINET AS RECOMMENDED IN THE USDOT HIGHWAY RAIL GRADE CROSSING TECHNICAL WORKING GROUP RECOMMENDATIONS TO ALERT TRAFFIC SIGNAL TECHNICIANS TO THE PRESENCE OF THE INTERCONNECTION WITH THE RAILROAD. SEE SAMPLE ON DETAIL I AS SHOWN ON SHEET ED-1.
14. COORDINATE WITH UPRR FOR THE INSTALLATION OF RAILROAD PREEMPTION CABLING AND TESTING OF THE REQUIRED RAILROAD PREEMPTION CIRCUITS. CONTACT UPRR PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
15. FURNISH AND INSTALL R3-2 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL C AND DETAIL M AS SHOWN ON SHEET ED-1.
16. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL N AS SHOWN ON SHEET ED-1.
17. FURNISH AND INSTALL TYPE 1 PED BARRICADED WITH R9-3

LEGEND (SHEETS E-17 TO E-19 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- NEW EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT EVX (DENOTES CHANNEL).
- NEW CONDUIT

GENERAL NOTES (SHEETS E-17 TO E-19 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

CONSTRUCTION NOTES (SHEETS E-17 TO E-19 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
			CONDUIT RUN NUMBER AND SIZE																	
			2-4"	4"	4"	4"	4"	4"	4"	3"	3"	4"	4"	3"	3"	3"	2"	2"	1.5"	2"
CONDUIT FILL			16%	20%	18%	14%	12%	11%	6%	7%	1%	8%	14%	8%	1%	1%	13%	15%	14%	13%
7 COND. CABLE (VEH.) *	A	4,8 -	1 -	1 -	1 -	1 -														
	B	1,2 -	1 -	1 -	1 -	1 -	1 -													
	C	1,6 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -											
	D	4,8 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -										
	E	8 -	1 -									1 -	1 -							
	F	5,6 -	1 -										1 -							
	G	2,5 -	1 -	1 -																
5 COND. CABLE (PED) *	H	4,8 -	1 -	1 -	1 -															
TOTAL			8 -	6 -	5 -	4 -	3 -	2 -	2 -	1 -		1 -	2 -							
TYPE C DETECTOR LEAD-IN CABLE		Ø1	2										2							
		Ø2	6	6	6	6	6	6												
		Ø4	4	3	3	3	3	3	3	3		1	1	1						
		Ø5	2	2	2	2	2	2												
		Ø6	6										6							
		Ø8	4	4	4															
		TOTAL DLC	24	15	15	11	11	11	3	3		1	9	1						
# 2	SERVICE																			3
# 4	SIGNAL POWER																		2	
# 6	STREET LIGHTING																	3		
# 8	SAFETY LIGHTS		2	2	2	2	2	2			2	2						2		
# 8	BONDING WIRE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
#12	PEU CONTROL		3															3		
#14	BLANK OUT SIGN	8							2	2	6	8	4	2	2					
12 COND. CABLE (#14 AWG)	RR PRE-EMPTION	1									1	1	1			1				
EVP CABLE 3 COND.	EVA (S/B)	1	1																	
	EVB (W/B)	1	1	1	1															
	EVC (N/B)	1	1	1	1	1	1	1												
	EVD (E/B)	1									1	1								

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	VEH SIG MTG Mast Arm	VEH SIG MTG Pole	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
A	19–3–113	30'	15'	MAT	SV–2–T	–	–	–	–	78W	XXXXX	FURNISH AND INSTALL EVB ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–		
C	29–5–113	55'	15'	MAT $MAS_{F=21'}$	SV–1–T SV–1–T	–	–	–	–	78W	XXXXX	FURNISH AND INSTALL EVC ON SMA AND R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "TEMPERANCE AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–		
E	24–3–113	35'	15'	MAT	SV–1–T	–	–	–	–	78W	XXXXX	FURNISH AND INSTALL EVD ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
F	1–A (10')	–	–	–	SV–1–T TV–2–T	–	–	–	–	–		FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE.
G	61–5–129	65'	15'	MAT $MAS_{F=17'}$	SV–1–T	–	–	–	–	78W	XXXXX	FURNISH AND INSTALL PEC ON TOP OF POLE. FURNISH AND INSTALL EVA ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "TEMPERANCE AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–		
I	1–A (10')	–	–	–	TV–1–T	–	–	–	–	–		FURNISH AND INSTALL R3-2 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE.
J	1–A (10')	–	–	–	TV–1–T	–	–	–	–	–		FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE.

NOTES:
1. ALL EQUIPMENT IS NEW UNLESS NOTED.
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND 12" UPPERCASE 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, WITH SERIES "D" TEXT.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.
5. PG&E POLE NUMBERS SHALL BE INCLUDED ON THE AS-BUILT PLANS.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LOIS BENAVIDES No. 80071 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

STUART CHI

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

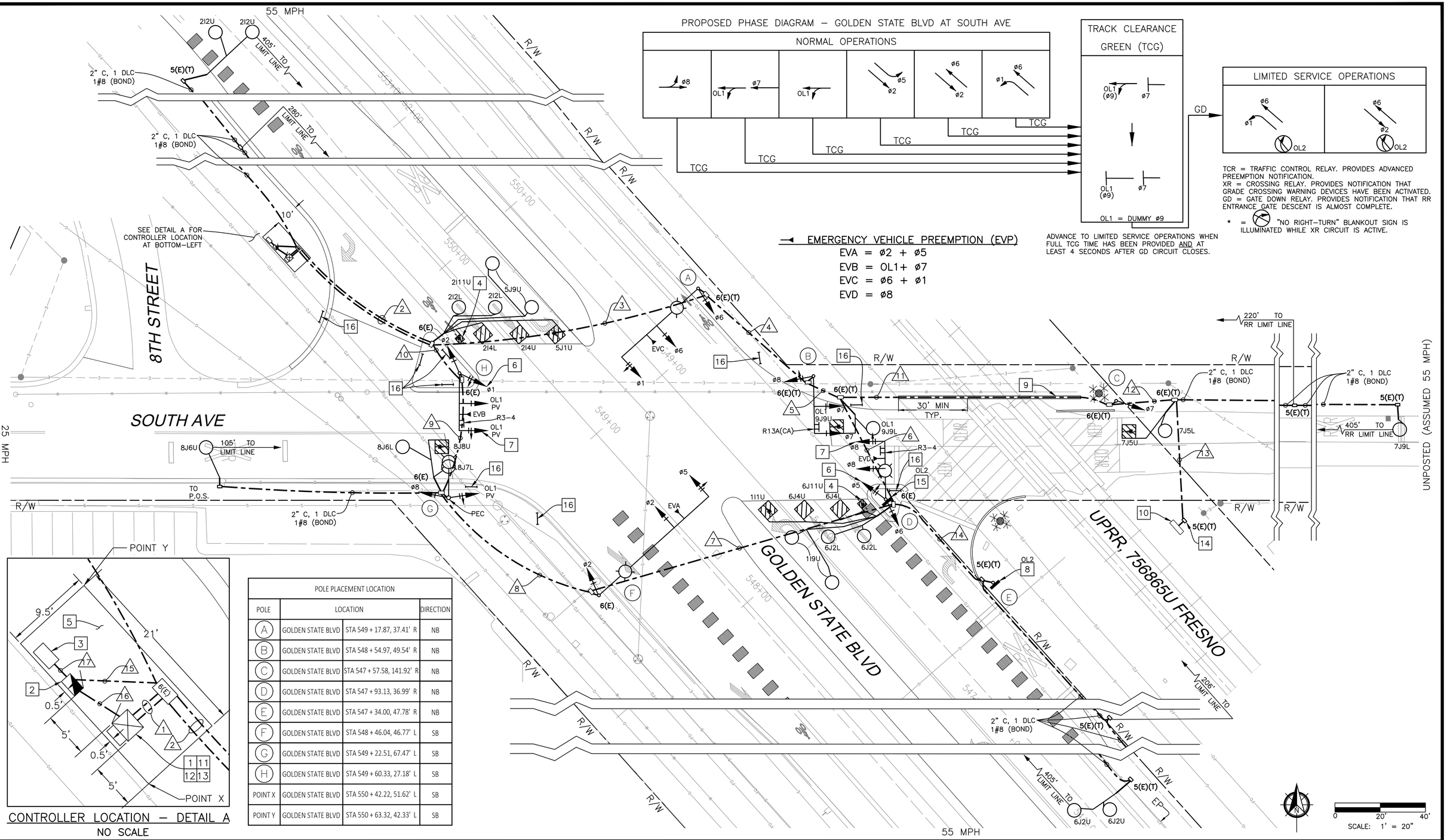
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT TEMPERANCE AVE
CONDUCTOR AND EQUIPMENT SCHEDLUE

DRAWING NO. E-19 SHEET NO. 126 TOTAL 142



POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
A	GOLDEN STATE BLVD	STA 549 + 17.87, 37.41' R	NB
B	GOLDEN STATE BLVD	STA 548 + 54.97, 49.54' R	NB
C	GOLDEN STATE BLVD	STA 547 + 57.58, 141.92' R	NB
D	GOLDEN STATE BLVD	STA 547 + 93.13, 36.99' R	NB
E	GOLDEN STATE BLVD	STA 547 + 34.00, 47.78' R	NB
F	GOLDEN STATE BLVD	STA 548 + 46.04, 46.77' L	SB
G	GOLDEN STATE BLVD	STA 549 + 22.51, 67.47' L	SB
H	GOLDEN STATE BLVD	STA 549 + 60.33, 27.18' L	SB
POINT X	GOLDEN STATE BLVD	STA 550 + 42.22, 51.62' L	SB
POINT Y	GOLDEN STATE BLVD	STA 550 + 63.32, 42.33' L	SB

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS REYES No. 82971 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT SOUTH AVE
TRAFFIC SIGNAL PLAN

DRAWING NO. E-20 SHEET NO. 127 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\1a Golden State Blvd at South Ave\Golden State Blvd at South Ave.dwg PLOT DATE: 3/19/2021 3:07:13 PM CAD USER: CAYALA

PROJECT NOTES (SHEETS E-20 TO E-22 ONLY):

1. FURNISH AND INSTALL TYPE 2070L CONTROLLER, NEW TYPE 332L CABINET WITH ALL ANCILLARY DEVICES FOR A FULL EIGHT PHASE OPERATION AS SPECIFIED IN THE SPECIFICATIONS. TYPE 332L CABINET SHALL INCLUDE TWO AUXILIARY BAYS. FURNISH AND INSTALL NEW BATTERY BACK-UP SYSTEM PER THE SPECIAL PROVISIONS. NEW MODEL 332L SHALL BE MODIFIED FOR RAILROAD PREEMPTION. FRONT DOOR OF ASSEMBLY SHALL FACE NORTHWEST. BATTERY BACK-UP EXTERNAL CABINET SHALL BE ON THE SOUTHWEST SIDE OF THE CONTROLLER ASSEMBLY.
2. INSTALL NEW TYPE III-AF SERVICE CABINET. CONTRACTOR SHALL COORDINATE WITH PG&E FOR POINT OF SERVICE CONNECTION.
3. POINT OF SERVICE LOCATION BOX. CONTRACTOR TO COORDINATE WITH PG&E TO CONNECT AND SET METER.
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D AS SHOWN ON SHEET ED-1.
5. INSTALL 9 ½' X 21' X 3 ½" PCC PAD.
6. INSTALL PROGRAMMABLE VISIBILITY SIGNAL HEAD TO ENSURE THAT VEHICLE SIGNAL HEAD IS ONLY VISIBLE TO THE TRAFFIC IT IS INTENDED FOR.
7. INSTALL 4-SECTION SIGNAL HEAD PER DETAIL H AS SHOWN ON SHEET ED-1.
8. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL K AS SHOWN ON SHEET ED-1.
9. FURNISH AND INSTALL 3" TYPE I CONDUIT IN 4" GALVANIZED STEEL CASING PER UPRR STANDARDS AND SPECIFICATIONS. 4" GALVANIZED STEEL CASING SHALL BE A MINIMUM OF 30 FEET FROM THE CENTERLINE OF THE TRACK IN A CROSS SECTION VIEW OF THE TRACKS. 4" GALVANIZED STEEL CASING SHALL BE INSTALLED NO LESS THAN 4.5 FEET BELOW THE TIE OF THE RAIL AND SHALL BE INSTALLED USING JACKING OR DRILLING METHODS ONLY. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE RAILROAD AND FOLLOW RAILROAD REQUIREMENTS.
10. EXISTING RAILROAD CABINET TO REMAIN.
11. THE ADVANCED PREEMPTION INTERCONNECTION SHALL BE CONFIGURED AS A "SUPERVISED" CIRCUIT. A PREEMPTION INTERCONNECTION CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. CONTRACTOR SHALL WORK WITH RAILROAD, AND BE RESPONSIBLE FOR APPROVAL, TO CONNECT TO THE ADVANCED PREEMPTION CIRCUIT. A "GATE-DOWN" CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. THE RAILROAD WILL PROVIDE THE GATE DOWN CIRCUIT FOR CONNECTION TO THE TRAFFIC SIGNAL CONTROLLER AS PART OF THE RAILROAD'S STANDARD DESIGN. A TRAFFIC SIGNAL HEALTH CIRCUIT SHALL BE IMPLEMENTED INTO THE SIGNAL CONTROLLER. THE TRAFFIC SIGNAL CONTROLLER SHALL BE PROGRAMMED WITH SECOND TRAIN LOGIC.
12. CONTRACTOR SHALL INSTALL THE FOLLOWING WARNING LABEL WITHIN THE TRAFFIC SIGNAL CONTROLLER CABINET:
    - IF THE TRAFFIC SIGNAL ENTERS FLASHING MODE, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF ROADWAY USERS OVER THE GRADE CROSSING.
    - IF THE TRAFFIC SIGNAL LOSES POWER OR ALL OF THE SIGNALS ARE DARK, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF THE ROADWAY USERS OVER THE GRADE CROSSING.
    - NOTIFY THE RAILROAD ONCE THE SIGNAL SYSTEM HAS BEEN RESTORED TO NORMAL OPERATION.
    - IF SIGNAL MAINTENANCE IS REQUIRED TO PERFORM A JOINT TEST OF THE PREEMPTION SYSTEM, NOTIFY THE RAILROAD.
13. CONTRACTOR SHALL INSTALL WARNING LABEL WITHIN CONTROLLER CABINET AS RECOMMENDED IN THE USDOT HIGHWAY RAIL GRADE CROSSING TECHNICAL WORKING GROUP RECOMMENDATIONS TO ALERT TRAFFIC SIGNAL TECHNICIANS TO THE PRESENCE OF THE INTERCONNECTION WITH THE RAILROAD. SEE SAMPLE PER DETAIL I AS SHOWN ON SHEET ED-1.
14. COORDINATE WITH UPRR FOR THE INSTALLATION OF RAILROAD PREEMPTION CABLING AND TESTING OF THE REQUIRED RAILROAD PREEMPTION CIRCUITS. CONTACT UPRR PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
15. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL L AS SHOWN ON SHEET ED-1.
16. FURNISH AND INSTALL TYPE I PED BARRICADE WITH R9-3.

GENERAL NOTES (SHEETS E-20 TO E-22 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

LEGEND (SHEETS E-20 TO E-22 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF VEHICULAR TRAVEL.
- EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT EVX (DENOTES CHANNEL).
- NEW CONDUIT
- EXISTING CONDUIT
- EXISTING LUMINAIRE
- PV — PROGRAMMABLE VISIBILITY VEHICLE SIGNAL HEAD

CONSTRUCTION NOTES (SHEETS E-20 TO E-22 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS RIOS No. C 60971 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT SOUTH AVE
LEGEND AND NOTES

DRAWING NO. E-21 SHEET NO. 128 TOTAL 142

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			2-4"	2-4"	4"	4"	4"	4"	4"	4"	4"	4"	3"	3"	3"	3"	2"	1.5"	2"
CONDUIT FILL			16%	16%	20%	18%	16%	9%	1%	3%	7%	11%	11%	9%	6%	2%	8%	14%	13%
7 COND. CABLE (VEH.) *	A	1,6	1	1	1														
	B	7,8	1	1	1	1													
	C	7	1	1	1	1	1						1						
	D	5,6,8	2	2	2	2	2	2											
	F	2,5	1	1						1	1	1							
5 COND. CABLE (PED) *	G	OL1,8	1	1							1	1							
	H	OL1,1,2	2	2								2							
TOTAL			9	9	5	4	3	2		1	2	4	1						
TYPE C DETECTOR LEAD-IN CABLE		Ø1	2	2	2	2	2	2											
		Ø2	5	4															
		Ø5	2	2															
		Ø6	5	5	5	5	5	5								1			
		Ø7	3	3	3	3	3						3	3					
		Ø8	4	4							4	4							
		OL1	2	2	2	2	2												
		TOTAL DLC	23	22	12	12	12	7			4	4	3	3		1			
# 2	SERVICE																		3
# 4	SIGNAL POWER																	2	
# 8	SAFETY LIGHTS			2	2	2	2	2		2	2	2					2		
# 8	BONDING WIRE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
#12	PEU CONTROL			3							3	3					3		
#14	BLANK OUT SIGN		4	4	4	4	4	4								2			
12 COND. CABLE (#14 AWG)	RR PRE-EMPTION		1	1	1	1	1						1	1	1				
EVP CABLE 3 COND.	EVA (S/B)		1	1						1	1	1							
	EVB (W/B)		1	1								1							
	EVC (N/B)		1	1	1														
	EVD (E/B)		1	1	1	1	1	1											

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		PPB		LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	ø	MTG	ø	ARROW			
A	26-4-113	45'	15'	MAT MAS$_{F=21'}$	SV-1-T	–	–	–	–	78W	XXXX	FURNISH AND INSTALL EVC ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "SOUTH AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
B	18-3-113	25'	–	MAT MAS$_{F=12'}$	SV-1-T	–	–	–	–	–	–	FURNISH AND INSTALL R13A ON SMA COMPLETE WITH MOUNTING HARDWARE.
C	1-A (10')	–	–	–	TV-1-T	–	–	–	–	–	–	
D	19-3-113	25'	15'	MAT MAS$_{F=12'}$	SV-2-TA SV-1-T	–	–	–	–	78W	XXXX	FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL EVD AND R3-4 ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
E	1-A (10')	–	–	–	TV-1-T	–	–	–	–	–	–	FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE.
F	61-5-129	65'	15'	MAT MAS$_{F=21'}$	SV-1-T	–	–	–	–	78W	XXXX	FURNISH AND INSTALL EVA ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "SOUTH AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
G	15-TS	–	15'	–	SV-2-TA	–	–	–	–	78W	XXXX	FURNISH AND INSTALL PEC ON TOP OF POLE.
H	18-3-113	25'	–	MAT MAS$_{F=12'}$	SV-2-TA	–	–	–	–	–	–	FURNISH AND INSTALL EVB AND R3-4 ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.

NOTES:
1. ALL EQUIPMENT IS NEW UNLESS NOTED.
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND 12" UPPERCASE 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, WITH SERIES "D" TEXT.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.
4. PG&E POLE NUMBERS SHALL BE INCLUDED ON THE AS-BUILT PLANS.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER LUIS BERMUDEZ No. 76921 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

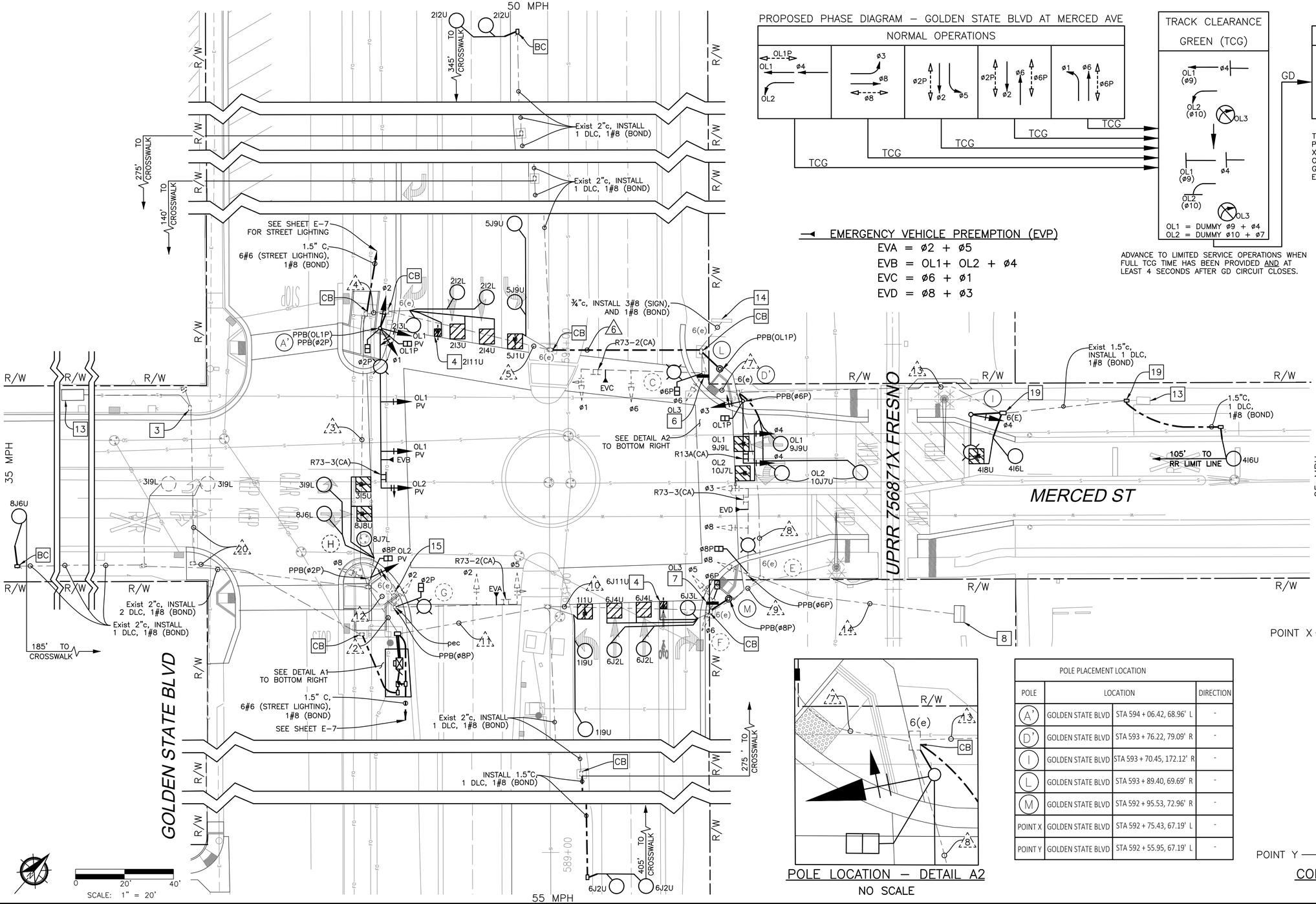
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

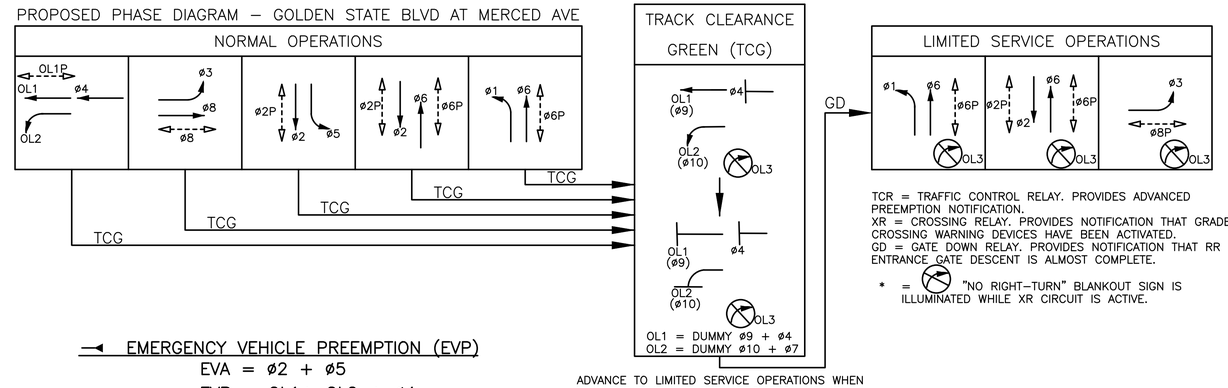
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT SOUTH AVE
EQUIPMENT AND CONDUCTOR SCHEDULE

DRAWING NO. E-22 SHEET NO. 129 TOTAL 142



PROPOSED PHASE DIAGRAM – GOLDEN STATE BLVD AT MERCED AVE



ADVANCE TO LIMITED SERVICE OPERATIONS WHEN FULL TCG TIME HAS BEEN PROVIDED AND AT LEAST 4 SECONDS AFTER GD CIRCUIT CLOSES.

TCR = TRAFFIC CONTROL RELAY. PROVIDES ADVANCED PREEMPTION NOTIFICATION.
XR = CROSSING RELAY. PROVIDES NOTIFICATION THAT GRADE CROSSING WARNING DEVICES HAVE BEEN ACTIVATED.
GD = GATE DOWN RELAY. PROVIDES NOTIFICATION THAT RR ENTRANCE GATE DESCENT IS ALMOST COMPLETE.

* = "NO RIGHT-TURN" BLANKOUT SIGN IS ILLUMINATED WHILE XR CIRCUIT IS ACTIVE.

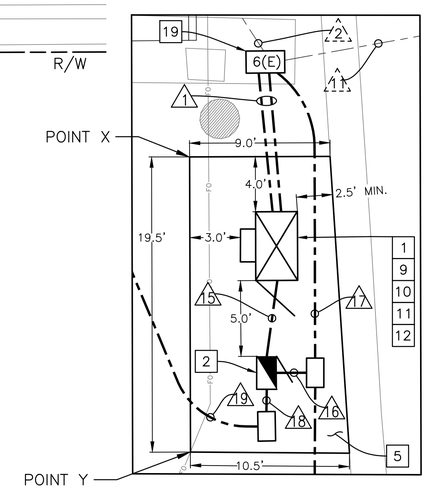
EMERGENCY VEHICLE PREEMPTION (EVP)

EVA = ø2 + ø5
EVB = OL1+ OL2 + ø4
EVC = ø6 + ø1
EVD = ø8 + ø3

POLE LOCATION – DETAIL A2

NO SCALE

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
A'	GOLDEN STATE BLVD	STA 594 + 06.42, 68.96' L	-
D'	GOLDEN STATE BLVD	STA 593 + 76.22, 79.09' R	-
I	GOLDEN STATE BLVD	STA 593 + 70.45, 172.12' R	-
L	GOLDEN STATE BLVD	STA 593 + 89.40, 69.69' R	-
M	GOLDEN STATE BLVD	STA 592 + 95.53, 72.96' R	-
POINT X	GOLDEN STATE BLVD	STA 592 + 75.43, 67.19' L	-
POINT Y	GOLDEN STATE BLVD	STA 592 + 55.95, 67.19' L	-



CONTROLLER LOCATION – DETAIL A1

NO SCALE

	DATE	RECORD DRAWING	
DESIGNED: J. BENAVIDES	03/24/2021	RESIDENT ENGINEER	DATE
DRAWN: C. AYALA-MAGANA	03/24/2021		
CHECKED: J. RIOS	03/24/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STEVEN LOUIS BENAVIDES No. 74006 Exp. 12/31/21 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT MERCED ST
TRAFFIC SIGNAL MODIFICATION PLAN

DRAWING NO. E-23 SHEET NO. 130 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\2c. Golden State Blvd at Merced St\Golden State Blvd at Merced St.dwg PLOT DATE: 3/24/2021 2:33:38 PM CAD USER: CAYALA

PROJECT NOTES (SHEETS E-23 TO E-26 ONLY):

1. FURNISH AND INSTALL TYPE 2070L CONTROLLER, NEW TYPE 332L CABINET WITH ALL ANCILLARY DEVICES FOR A FULL EIGHT PHASE OPERATION AS SPECIFIED IN THE SPECIFICATIONS. TYPE 332L CABINET SHALL INCLUDE TWO AUXILIARY BAYS. FURNISH AND INSTALL NEW BATTERY BACK-UP SYSTEM PER THE SPECIAL PROVISIONS AND SHALL BE LOCATED ON THE WEST SIDE OF THE CABINET. NEW MODEL 332L SHALL BE MODIFIED FOR RAILROAD PREEMPTION. FRONT DOOR OF ASSEMBLY SHALL FACE SOUTHEAST. ADD POWER OVER ETHERNET INJECTOR FOR EACH OF THE CAMERAS.
2. INSTALL NEW TYPE III-AF SERVICE CABINET. CONTRACTOR SHALL COORDINATE WITH PG&E FOR DISCONNECT AND RECONNECT TO THE EXISTING POINT OF SERVICE.
3. EXISTING POINT OF SERVICE LOCATION BOX.
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D AS SHOWN ON ED-1.
5. INSTALL 193 SQUARE FEET OF 3.5" PCC PAD.
6. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL G AS SHOWN ON SHEET ED-1.
7. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL F AS SHOWN ON SHEET ED-1.
8. EXISTING RAILROAD CONTROLLER TO REMAIN.
9. THE ADVANCED PREEMPTION INTERCONNECTION SHALL BE CONFIGURED AS A "SUPERVISED" CIRCUIT. A PREEMPTION INTERCONNECTION CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. CONTRACTOR SHALL WORK WITH RAILROAD, AND BE RESPONSIBLE FOR APPROVAL, TO CONNECT TO THE ADVANCED PREEMPTION CIRCUIT. A "GATE-DOWN" CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. THE RAILROAD WILL PROVIDE THE GATE DOWN CIRCUIT FOR CONNECTION TO THE TRAFFIC SIGNAL CONTROLLER AS PART OF THE RAILROAD'S STANDARD DESIGN. A TRAFFIC SIGNAL HEALTH CIRCUIT SHALL BE IMPLEMENTED INTO THE SIGNAL CONTROLLER. THE TRAFFIC SIGNAL CONTROLLER SHALL BE PROGRAMMED WITH SECOND TRAIN LOGIC.
10. CONTRACTOR SHALL INSTALL THE FOLLOWING WARNING LABEL WITHIN THE TRAFFIC SIGNAL CONTROLLER CABINET:
    - IF THE TRAFFIC SIGNAL ENTERS FLASHING MODE, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF ROADWAY USERS OVER THE GRADE CROSSING.
    - IF THE TRAFFIC SIGNAL LOSES POWER OR ALL OF THE SIGNALS ARE DARK, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF THE ROADWAY USERS OVER THE GRADE CROSSING.
    - NOTIFY THE RAILROAD ONCE THE SIGNAL SYSTEM HAS BEEN RESTORED TO NORMAL OPERATION.
    - IF SIGNAL MAINTENANCE IS REQUIRED TO PERFORM A JOINT TEST OF THE PREEMPTION SYSTEM, NOTIFY THE RAILROAD.
11. CONTRACTOR SHALL INSTALL WARNING LABEL WITHIN CONTROLLER CABINET AS RECOMMENDED IN THE USDOT HIGHWAY RAIL GRADE CROSSING TECHNICAL WORKING GROUP RECOMMENDATIONS TO ALERT TRAFFIC SIGNAL TECHNICIANS TO THE PRESENCE OF THE INTERCONNECTION WITH THE RAILROAD. SEE SAMPLE PER DETAIL I AS SHOWN ON SHEET ED-1.
12. COORDINATE WITH UPRR FOR THE INSTALLATION OF RAILROAD PREEMPTION CABLING AND TESTING OF THE REQUIRED RAILROAD PREEMPTION CIRCUITS. CONTACT UPRR PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
13. EXISTING PG&E VAULT.
14. EXISTING FOWLER ILLUMINATED SIGN TO REMAIN.
15. EXISTING 4 CCTV MOUNTED ON SMA POLE.
16. COMPLETELY REMOVE AND DISPOSE OF CONTROLLER CABINET AND SERVICE PEDESTAL FOUNDATION AND FLAT WORK.
17. RL EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT, SHALL BE PLACED IN TEMPORARY CONCRETE FOUNDATION AND REMAIN OPERATIONAL UNTIL CONSTRUCTION OF NEW MAST ARM POLE CONCLUDES. COMPLETELY REMOVE AND DISPOSE OF EXISTING 1-A POLE FOUNDATION. RS EXISTING 1-A POLE AFTER CONSTRUCTION CONCLUDES. PHASE 3 OF THE NEW MAST ARM POLE SHALL BE OPERATIONAL PRIOR TO REMOVAL OF THE TEMPORARY 1-A POLE.
18. RS ALL EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLIES ON EXISTING POLES.
19. RS EXISTING PULL BOX AND BC A NEW PULL BOX.

LEGEND (SHEETS E-23 TO E-26 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- EXISTING TYPE E LOOP DETECTOR.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR.
- EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT EVX (DENOTES CHANNEL).
- NEW CONDUIT
- EXISTING CONDUIT
- PV PROGRAMMABLE VISIBILITY VEHICLE SIGNAL HEAD
- EXISTING CCTV
- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE FINISH GRADE.
- CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- CB INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- RL RELOCATE EQUIPMENT.

GENERAL NOTES (SHEETS E-23 TO E-26 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

CONSTRUCTION NOTES (SHEETS E-23 TO E-26 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/24/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/24/2021		
CHECKED:	J. RIOS	03/24/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. 90071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT MERCED ST
LEGEND AND NOTES

DRAWING NO. E-24 SHEET NO. 131 TOTAL 142

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			CONDUIT RUN NUMBER AND SIZE																			
			2-4"	6"	3"	3"	3"	3"	3"	3"	3"	3"	4"	2"	1½"	1½"	1½"	2½"	2"	2"	2"	1½"
CONDUIT FILL			23%	29%	39%	33%	17%	14%	15%	12%	24%	33%	21%	25%	28%	22%	14%	30%	28%	13%	13%	22%
7 COND. CABLE (VEH.) *	A'	1,2 OL1,OL2 / 2P OL1P	2 / 1	2 / 1	2 / 1	2 / 1																
	C	1,6 / 6P	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1														
	D'	3,4 OL1P	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1													
	E	3,8 / 8P	1 / 1								1 / 1	1 / 1	1 / 1									
	F	5,6 / 6P	1 / 1									1 / 1	1 / 1									
	G	2,5 / 2P	1 / 1	1 / 1										1 / 1								
5 COND. CABLE (PED) *	H	8,OL2 / 8P	1 / 1	1 / 1																		
	I	4 / -	1 / -							1 / -	1 / -	1 / -	1 / -		1 / -							
TOTAL			9 / 7	6 / 5	4 / 3	4 / 3	2 / 2	2 / 2	1 / 1	1 / -	2 / 1	3 / 2	3 / 2	1 / 1	1 / -							
3 COND. CABLE (PPB)	A'	2P,OL1P	1	1	1	1																
	C	6P,OL1P	1	1	1	1	1	1														
	E	6P,8P	1								1	1	1									
	G	2P,8P	1	1										1								
TOTAL			4	3	2	2	1	1			1	1	1	1								
TYPE C DETECTOR LEAD-IN CABLE		Ø1	2										2									
		Ø2	6	6	6	6	1															
		Ø3	2	2																		
		Ø4	3							3	3	3	3		3							
		Ø5	2	2	2	2	2															
		Ø6	6									5	6									
		Ø8	4	4																		
		OL1	2	2	2	2	2	2	2													
		OL2	2	2	2	2	2	2	2													
		PED PUSH BUTTON							1		1			1								
		TOTAL DLC	29	18	12	12	7	4	5	3	4	8	11	1	3							
# 2		SERVICE																		3	3	3
# 4		SIGNAL POWER															2					
# 6		STREET LIGHTING		6	6													12	6			
# 8		SIGN							3	3	3	3	3					3	3			
# 8		SAFETY LIGHTS		2	2	2			2	2	2	2	2	2	2			2	2			
# 8		BONDING WIRE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
# 12		PEU CONTROL		3										3				3	3			
#14		BLANK OUT SIGN	4						2	2	2	4	4									
12 COND. CABLE (#14 AWG)		R.R INTERCONNECT	1								1	1	1			1						
CAT5E		CAMERA	1	1										1								
EVP CABLE 3 COND.		EVA (S/B)	1	1										1								
		EVB (W/B)	1	1	1	1																
		EVC (N/B)	1						1	1	1	1	1									
		EVD (E/B)	1								1	1	1									

NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
* ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH '(')'.

EQUIPMENT SCHEDULE

No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	VEH SIG MTG Mast Arm	VEH SIG MTG Pole	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
A	61–5–129	60'	15'	MAT MAS MAS	SV–1–T	2	SP–1–T	2 4	LEFT RIGHT	101W	2171	REMOVE AND SALVAGE EXISTING SIGNAL STANDARD AND ALL EQUIPMENT ATTACHED TO IT.
A'	61–5–129 (N)	65' (N)	15' (N)	(N) MAT (N) $MAS_{F=15'}$ (N) $MAS_{F=35'}$	SV–3–TB (N)	2 (N) OL1 (N)	SP–2–T (N)	2 (N) OL1 (N)	RIGHT (N) RIGHT (N)	78W (N)	2171 (N)	FURNISH AND INSTALL EVB AND R73-3(CA) SIGN ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL PV ON VEHICLE SIGNAL HEADS. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T	4	SP–1–T	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
C	29–5–129	50'	15'	MAT MAS	SV–1–T	6 (N)	SP–1–T (N)	OL1	LEFT	78W (N)	2169	EXISTING SIGNAL STANDARD WITH R73-2(CA) AND SNS "MERCED ST" SIGNS TO REMAIN. FURNISH AND INSTALL EVC ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD AND MOUNTING HARDWARE, PPB ASSEMBLY AND LUMINAIRE. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD AND LUMINAIRE.
D	1–A (10')	–	–	–	TV–2–T	4	SP–1–T	6	RIGHT	–	–	RELOCATE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT, SHALL BE PLACED IN TEMPORARY CONCRETE FOUNDATION AND REMAIN OPERATIONAL UNTIL CONSTRUCTION OF NEW MAST ARM POLE CONCLUDES. COMPLETELY REMOVE AND DISPOSE OF EXISTING 1-A POLE FOUNDATION. REMOVE AND SALVAGE EXISTING 1-A POLE AFTER CONSTRUCTION CONCLUDES. PHASE 3 OF THE NEW MAST ARM POLE SHALL BE OPERATIONAL PRIOR TO REMOVAL OF THE TEMPORARY 1-A POLE.
D'	18–3–113 (N)	25' (N)	–	(N) MAT (N) $MAS_{F=12'}$	SV–1–T (N)	OL1 (N)	SP–1–T (N)	6 (N)	RIGHT (N)	–	–	FURNISH AND INSTALL R13A (CA) SIGN ON SMA COMPLETE WITH MOUNTING HARDWARE.
E	24–4–129	35'	15'	MAT MAS	SV–1–T	8 (N)	SP–1–T (N)	6 (N)	LEFT (N)	78W (N)	2172	EXISTING SIGNAL STANDARD WITH R73-3(CA) AND SNS "GOLDEN STATE BLVD" SIGNS TO REMAIN. FURNISH AND INSTALL EVD ON SMA COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD AND MOUNTING HARDWARE, PPB ASSEMBLY AND LUMINAIRE. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD, APS PPB ASSEMBLY AND LUMINAIRE.
F	1–A (10')	–	–	–	TV–2–T	6 (N)	SP–1–T (N)	8	RIGHT	–	–	FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD AND MOUNTING HARDWARE AND PPB ASSEMBLY. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD.
G	29–5–129	50'	15'	MAT MAS	SV–1–T	2 (N)	SP–1–T (N)	8 (N)	LEFT (N)	78W (N)	2170	EXISTING SIGNAL STANDARD WITH R73-2(CA) AND SNS "MERCED ST" SIGNS TO REMAIN. FURNISH AND INSTALL EVC ON SMA COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD AND MOUNTING HARDWARE, PPB ASSEMBLY AND LUMINAIRE. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD, APS PPB ASSEMBLY AND LUMINAIRE.
H	1–A (10')	–	–	–	TV–2–T	8 (N)	SP–1–T (N)	2 (N)	RIGHT (N)	–	–	EXISTING 1-A POLE TO REMAIN. FURNISH AND INSTALL PV ON OL2 VEHICLE HEAD. REMOVE AND SALVAGE EXISTING PEDESTRIAN HEAD AND MOUNTING HARDWARE AND PPB ASSEMBLY. FURNISH AND INSTALL NEW PEDESTRIAN SIGNAL HEAD AND APS PPB ASSEMBLY.
I	15–TS (N)	–	15' (N)	–	SV–1–T (N)	–	–	–	–	78W (N)	XXXX	FURNISH AND INSTALL R13(CA) AND R10-6(LT) SIGNS ON POLE COMPLETE WITH MOUNTING HARDWARE.
J	PPB POST (2 ½")	–	–	–	–	–	–	4	RIGHT LEFT	–	–	REMOVE AND SALVAGE EXISTING PPB POST AND ALL EQUIPMENT ATTACHED TO IT.
K	PPB POST (2 ½")	–	–	–	–	–	–	8	RIGHT LEFT	–	–	REMOVE AND SALVAGE EXISTING PPB POST AND ALL EQUIPMENT ATTACHED TO IT.
L	PPB POST (2 ½")(N)	–	–	–	–	–	–	OL1 (N)	LEFT (N)	–	–	PPB POST SHALL BE 5'7" IN HEIGHT.
M	PPB POST (2 ½")(N)	–	–	–	–	–	–	8 (N)	RIGHT (N)	–	–	PPB POST SHALL BE 5'7" IN HEIGHT.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED WITH (N).
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND, 12" UPPERCASE, 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING AND 3M TYPE XI DG3 OR APPROVED EQUAL.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/24/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/24/2021		
CHECKED:	J. RIOS	03/24/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No. 90071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

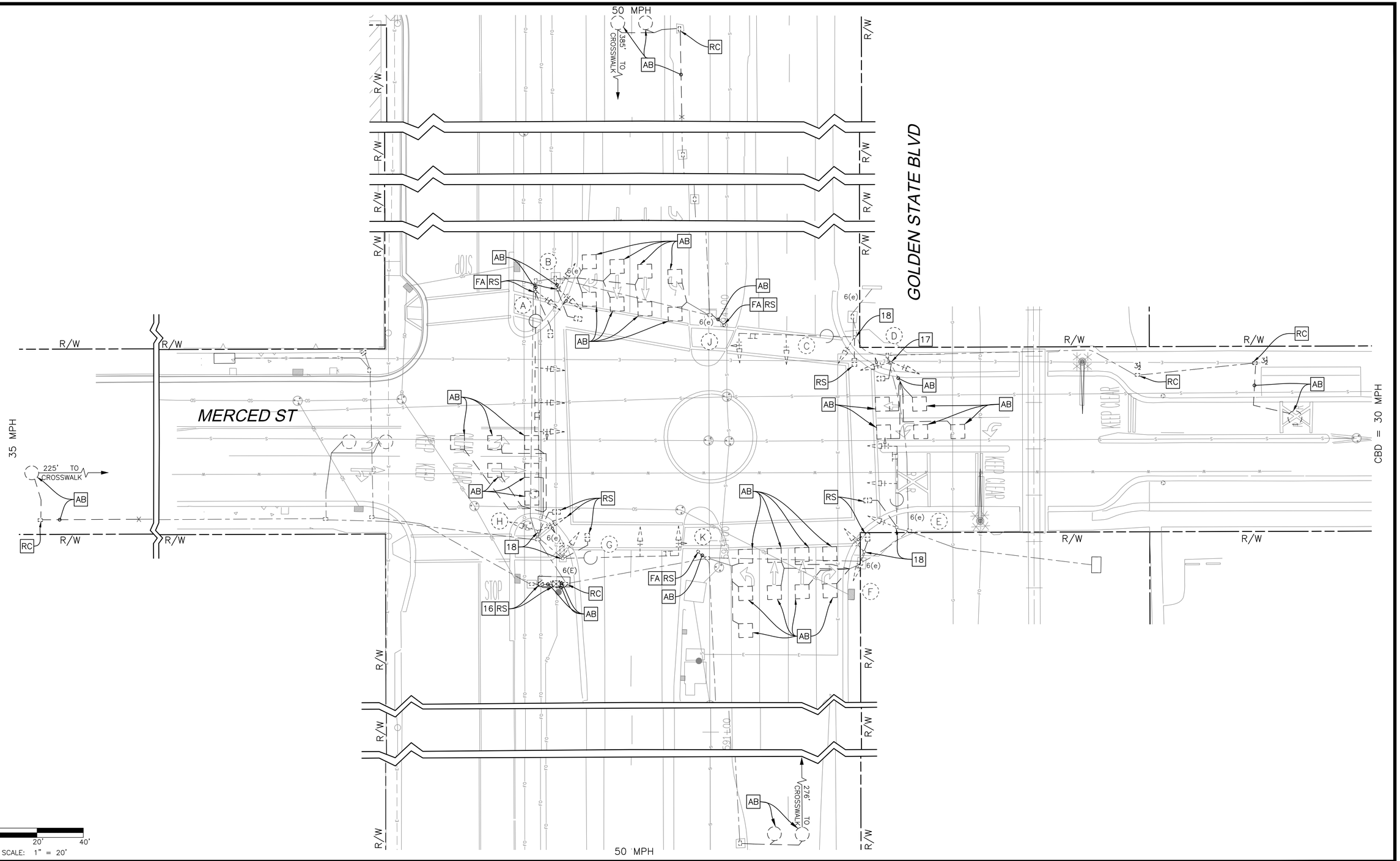
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT MERCED ST
CONDUCTOR AND EQUIPMENT SCHEDLUE

DRAWING NO. E-25 SHEET NO. 132 TOTAL 142



		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/24/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/24/2021		
CHECKED:	J. RIOS	03/24/2021		

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516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART L. POLLOCK REGISTERED PROFESSIONAL ENGINEER No. C 39071 Exp. 12/31/22 CIVIL STATE OF CALIFORNIA

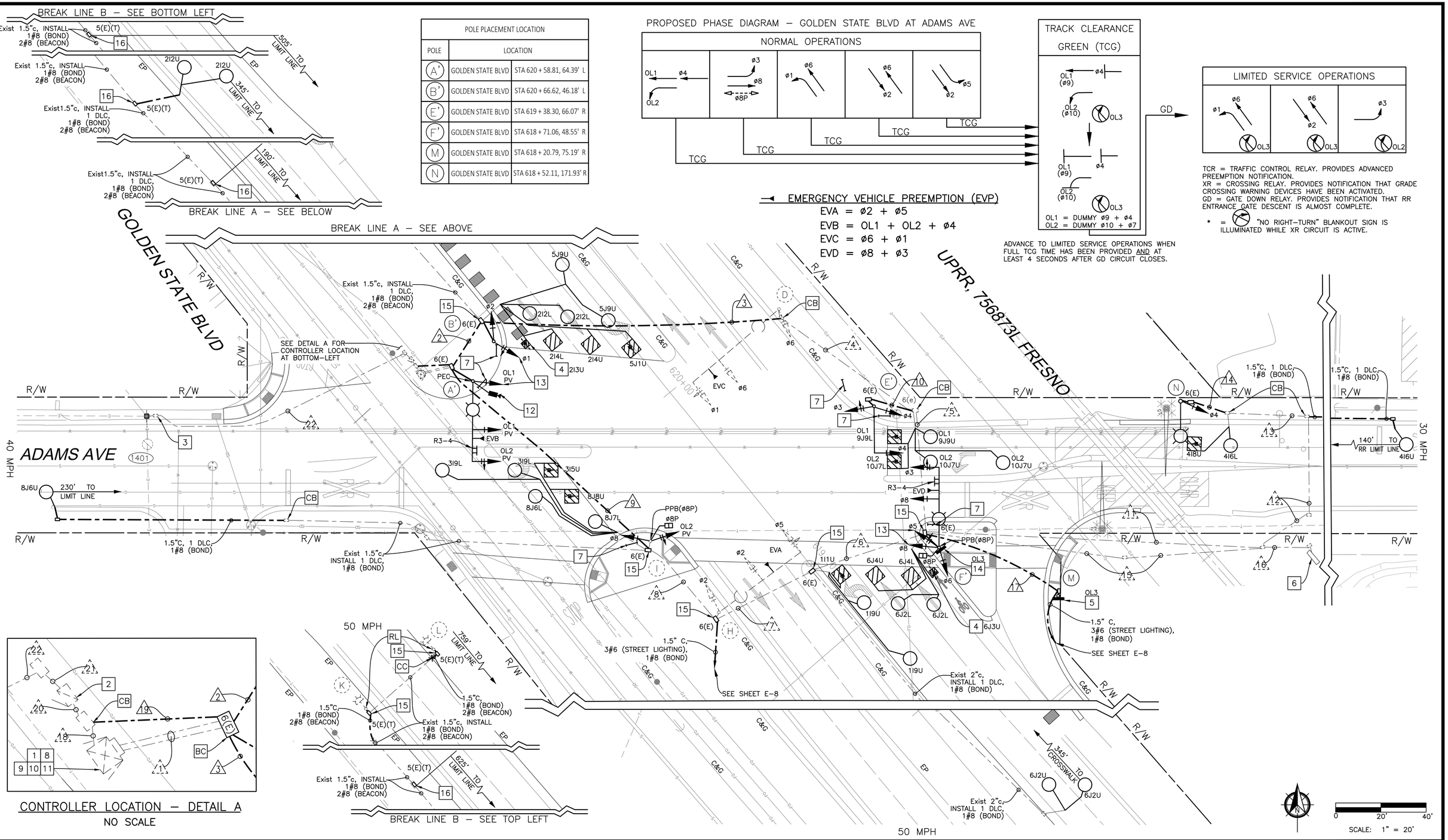
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT MERCED ST
TRAFFIC SIGNAL DEMOLITION PLAN

DRAWING NO. E-26 SHEET NO. 133 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E\ Traffic Signal Designs\2c Golden State Blvd at Merced St\Golden State Blvd at Merced St.dwg PLOT DATE: 3/24/2021 2:35:41 PM CAD USER: CAYALA



POLE PLACEMENT LOCATION		
POLE	LOCATION	
A'	GOLDEN STATE BLVD	STA 620 + 58.81, 64.39' L
B'	GOLDEN STATE BLVD	STA 620 + 66.62, 46.18' L
E'	GOLDEN STATE BLVD	STA 619 + 38.30, 66.07' R
F'	GOLDEN STATE BLVD	STA 618 + 71.06, 48.55' R
M	GOLDEN STATE BLVD	STA 618 + 20.79, 75.19' R
N	GOLDEN STATE BLVD	STA 618 + 52.11, 171.93' R

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STUART D. ROSS REGISTERED PROFESSIONAL ENGINEER No. 0 00071 Exp. 09/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT ADAMS AVE
TRAFFIC SIGNAL MODIFICATION PLAN

DRAWING NO. E-27 SHEET NO. 134 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E\ Traffic Signal Designs\2b Golden State Blvd at Adams Ave\Golden State Blvd at Adams Ave.dwg PLOT DATE: 3/19/2021 3:10:40 PM CAD USER: CAYALA

PROJECT NOTES (SHEETS E-27 TO E-30 ONLY):

1. EXISTING 332L CABINET WITH BBS SYSTEM AND POWER OVER ETHERNET INJECTOR.
2. EXISTING TESCO SERVICE CABINET.
3. EXISTING POINT OF SERVICE LOCATION BOX.
4. INSTALL 3'X3' BIKE LOOP PER DETAIL D AS SHOWN ON SHEET ED-1.
5. FURNISH AND INSTALL R3-1 (24" x 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL K AS SHOWN ON SHEET ED-1.
6. EXISTING RAILROAD CONTROLLER TO REMAIN.
7. FURNISH AND INSTALL TYPE I PED BARRICADE WITH R9-3.
8. THE ADVANCED PREEMPTION INTERCONNECTION SHALL BE CONFIGURED AS A "SUPERVISED" CIRCUIT. A PREEMPTION INTERCONNECTION CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. CONTRACTOR SHALL WORK WITH RAILROAD, AND BE RESPONSIBLE FOR APPROVAL, TO CONNECT TO THE ADVANCED PREEMPTION CIRCUIT. A "GATE-DOWN" CIRCUIT SHALL BE IMPLEMENTED IN THE TRAFFIC SIGNAL CONTROLLER. THE RAILROAD WILL PROVIDE THE GATE DOWN CIRCUIT FOR CONNECTION TO THE TRAFFIC SIGNAL CONTROLLER AS PART OF THE RAILROAD'S STANDARD DESIGN. A TRAFFIC SIGNAL HEALTH CIRCUIT SHALL BE IMPLEMENTED INTO THE SIGNAL CONTROLLER. THE TRAFFIC SIGNAL CONTROLLER SHALL BE PROGRAMMED WITH SECOND TRAIN LOGIC.
9. CONTRACTOR SHALL INSTALL THE FOLLOWING WARNING LABEL WITHIN THE TRAFFIC SIGNAL CONTROLLER CABINET:
   - IF THE TRAFFIC SIGNAL ENTERS FLASHING MODE, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF ROADWAY USERS OVER THE GRADE CROSSING.
   - IF THE TRAFFIC SIGNAL LOSES POWER OR ALL OF THE SIGNALS ARE DARK, NOTIFY THE RAILROAD AND PROVIDE FOR THE SAFE MOVEMENT OF THE ROADWAY USERS OVER THE GRADE CROSSING.
   - NOTIFY THE RAILROAD ONCE THE SIGNAL SYSTEM HAS BEEN RESTORED TO NORMAL OPERATION.
   - IF SIGNAL MAINTENANCE IS REQUIRED TO PERFORM A JOINT TEST OF THE PREEMPTION SYSTEM, NOTIFY THE RAILROAD.
10. CONTRACTOR SHALL INSTALL WARNING LABEL WITHIN CONTROLLER CABINET AS RECOMMENDED IN THE USDOT HIGHWAY RAIL GRADE CROSSING TECHNICAL WORKING GROUP RECOMMENDATIONS TO ALERT TRAFFIC SIGNAL TECHNICIANS TO THE PRESENCE OF THE INTERCONNECTION WITH THE RAILROAD. SEE SAMPLE PER DETAIL I AS SHOWN ON SHEET ED-1.
11. COORDINATE WITH UPRR FOR THE INSTALLATION OF RAILROAD PREEMPTION CABLING AND TESTING OF THE REQUIRED RAILROAD PREEMPTION CIRCUITS. CONTACT UPRR PRIOR TO ANY WORK WITHIN UPRR RIGHT-OF-WAY OR ANY WORK AFFECTING GRADE CROSSING OPERATIONS.
12. EXISTING 4 CCTV MOUNTED ON EXISTING TYPE 15 POLE SHALL BE RELOCATED TO NEW POLE A'.
13. INSTALL PROGRAMMABLE VISIBILITY SIGNAL HEAD TO ENSURE THAT VEHICLE SIGNAL HEAD IS ONLY VISIBLE TO THE TRAFFIC IT'S INTENDED FOR.
14. FURNISH AND INSTALL R3-1 (24" X 24") INTERNALLY ILLUMINATED BLANK OUT SIGN PER DETAIL B AND DETAIL L AS SHOWN ON SHEET ED-1.
15. RC EXISTING PULL BOX AND BC A NEW PULL BOX.
16. RC EXISTING PULL BOX AND BC A NEW 5(E)(T) PULL BOX AT THE PROPOSED TRAIL FINISH GRADE.

LEGEND (SHEETS E-27 TO E-30 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR.
- NEW EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT EVX (DENOTES CHANNEL).
- NEW CONDUIT
- EXISTING CONDUIT
- EXISTING LUMINAIRE ON WOODEN POLE
- EXISTING LUMINAIRE
- PV — PROGRAMMABLE VISIBILITY VEHICLE SIGNAL HEAD
- EXISTING CCTV
- AB — ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS — REMOVE AND SALVAGE EQUIPMENT.
- RC — EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA — FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE FINISH GRADE.
- CC — CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- CB — INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
- BC — INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- RL — RELOCATE EQUIPMENT.

GENERAL NOTES (SHEETS E-27 TO E-30 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARDPLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF FOWLER PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
21. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
23. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW STREET NAME SIGN ON SMA COMPLETE WITH VARIABLE LENGTH MOUNTING HARDWARE, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE CITY OF FRESNO TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

CONSTRUCTION NOTES (SHEETS E-27 TO E-30 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW).
4. ANY PULLBOXES BROKEN/DAMAGED BY CONTRACTOR SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No. C 80971 Exp. 12/22 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT ADAMS AVE
LEGEND AND NOTES

DRAWING NO. E-28 SHEET NO. 135 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\2b Golden State Blvd at Adams Ave\Golden State Blvd at Adams Ave.dwg PLOT DATE: 3/19/2021 3:10:56 PM CAD USER: CAYALA

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE																						
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
			(2-3")	4"	4"	(3")	(3")	(3")	(3")	(3")	4"	3"	(1.5")	(1.5")	(1.5")	3"	(1.5")	(1.5")	3"	(3")	3"	(3")	(2")	(3")
CONDUIT FILL			33%	16%	11%	13%	7%	24%	27%	33%	26%	1%	28%	28%	24%	5%	22%	22%	5%	4%	10%	13%	13%	6%
7 COND. CABLE (VEH.) *	A'	OL1,OL2 -	1 -																					
	B'	1,2 -	1 -	1 -																				
	D	1,6 -	1 -	1 -	1 -																			
	E'	3,4 -	1 -	1 -	1 -	1 -																		
	F'	3,5,6,8 8P	2 1					2 1	2 1	2 1	2 1													
	H	2,5 -	1 -							1 -	1 -													
5 COND. CABLE (PED) *	I	8,OL2 8P	1 1								1 1													
	N	4 -	1 -					1 -	1 -	1 -	1 -		1 -	1 -	1 -	1 -								
TOTAL			9 2	3 -	2 -	1 -		3 1	3 1	4 1	5 2		1 -	1 -	1 -	1 -								
3 COND. CABLE (PPB)	F'	8P	1					1	1	1	1													
	I	8P	1								1													
TOTAL			2					1	1	1	2													
TYPE C DETECTOR LEAD-IN CABLE		Ø1	2						2	2	2													
		Ø2	5	5																				
		Ø3	2								2													
		Ø4	3					3	3	3	3		3	3	2									
		Ø5	2	2																				
		Ø6	5					4	5	5	5													
		Ø8	4								4													
		OL1	2	2	2	2																		
		OL2	2	2	2	2																		
		TOTAL DLC	27	11	4	4		7	10	10	16		3	3	2									
# 2	SERVICE																						3	3
# 4	SIGNAL POWER																			2		2		
# 6	STREET LIGHTING						3	3	6	6								3			6	6		
# 8	SAFETY LIGHTS		2	2			2	2	2	2		2	2	2	2						2	2		
# 8	BONDING WIRE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
#12	PEU CONTROL																				2	2		
#14	BLANK OUT SIGN	4	4	4	4	4												2						
CAT5e	IP CAMERA	4																						
12 COND. CABLE (#14 AWG)	RR PRE-EMPTION	1	1	1	1	1											1	1						
EVP CABLE 3 COND.	EVA (S/B)	1								1	1													
	EVB (W/B)	1																						
	EVC (N/B)	1	1	1																				
	EVD (E/B)	1						1	1	1	1													

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	VEH SIG MTG Mast Arm	VEH SIG MTG Pole	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	LED LUMINAIRE WATTAGE	PG&E POLE #	SPECIAL REQUIREMENTS
A	TYPE 15	–	15'	–	SV–1–T	–	–	–	–	101W	4027	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT. 4 EXISTING CCTV MOUNTED ON TYPE 15 POLE SHALL BE PROTECTED AND RELOCATED TO NEW POLE A'.
A'	24–4–113 (N)	35' (N)	15' (N)	(N) MAT (N) $MAS_{F=14'}$	SV–1–T (N)	–	–	–	–	78W (N)	4027 (N)	INSTALL 4 EXISTING CCTV FROM POLE A. FURNISH AND INSTALL R3-4 SIGN AND EVB ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL PV ON ALL VEHICLE SIGNAL HEADS. FURNISH AND INSTALL PEC ON TOP OF POLE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–1–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
B'	1–A (10')(N)	–	–	–	TV–2–T (N)	–	–	–	–	–	–	
C	1–A (10')	–	–	–	SV–1–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
D	29–5–70	50'	15'	MAT MAS	SV–1–T	–	–	–	–	101W	4028	EXISTING SMA SNS "ADAMS AVE" TO REMAIN. FURNISH AND INSTALL EVC ON SMA COMPLETE WITH MOUNTING HARDWARE.
E	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
E'	16–2–113 (N)	20' (N)	–	MAT (N)	SV–2–TA (N)	–	–	–	–	–	–	
F	17–2–70	20'	15'	MAT	SV–3–TB	8	SP–1–T	8	RIGHT	101W	4029	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT.
F'	24–4–113 (N)	35' (N)	15' (N)	(N) MAT (N) $MAS_{F=14'}$	SV–1–T (N) SV–3–TB(N)	8 (N)	SP–1–T (N)	8 (N)	LEFT (N)	78W (N)	4029 (N)	FURNISH AND INSTALL R3-4 SIGN AND EVD ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL SNS "GOLDEN STATE BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL R3-1 INTERNALLY ILLUMINATED BLANK OUT SIGN ON POLE COMPLETE WITH MOUNTING HARDWARE.
G	1–A (10')	–	–	–	SV–1–T	–	–	4	LEFT RIGHT	–	–	REMOVE AND SALVAGE EXISTING 1-A POLE AND ALL EQUIPMENT ATTACHED TO IT.
H	26–3–70	45'	15'	MAT MAS	SV–1–T	–	–	–	–	101W	4030	EXISTING SMA SNS "ADAMS AVE" TO REMAIN. FURNISH AND INSTALL EVA ON SMA COMPLETE WITH MOUNTING HARDWARE.
I	1–A (10')	–	–	–	TV–2–T (N)	8 (N)	SP–1–T (N)	8 (N)	RIGHT (N)	–	–	REMOVE AND SALVAGE EXISTING VEHICLE SIGNAL HEADS, PEDESTRIAN HEAD AND PPB ASSEMBLY. FURNISH AND INSTALL NEW VEHICLE SIGNAL HEADS COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL NEW PEDESTRIAN HEAD AND APS PPB ASSEMBLY.
J	33–2–60	15'	–	MAT	SV–1–T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT.
K	1–A–FBS	–	–	–	TV–1–T	–	–	–	–	–	–	INSTALL NEW FOUNDATION AND RELOCATE EXISTING FLASHING BEACON, POLE, AND ALL ASSOCIATED EQUIPMENT A MINIMUM OF 3' BEHIND THE PROPOSED EDGE OF PAVEMENT.
L	1–A–FBS	–	–	–	TV–1–T	–	–	–	–	–	–	INSTALL NEW FOUNDATION AND RELOCATE EXISTING FLASHING BEACON, POLE, AND ALL ASSOCIATED EQUIPMENT A MINIMUM OF 3' BEHIND THE PROPOSED EDGE OF PAVEMENT.
M	1–A (N)(10')	–	–	–	TV–1–T (N)	–	–	–	–	–	–	FURNISH AND INSTALL R3-1 BLANK OUT SIGN ON TOP OF POLE.
N	15–TS (N)	–	15' (N)	–	SV–1–T (N)	–	–	–	–	78W (N)	XXXX (N)	FURNISH AND INSTALL R13A(CA) AND R10-6(LT) SIGNS ON STANDARD COMPLETE WITH MOUNTING HARDWARE.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED WITH (N).
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND 12" UPPERCASE 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING AND 3M TYPE XI DG3 OR APPROVED EQUAL.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
CHECKED:	J. RIOS	03/19/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN STUDY

SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. C 80071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

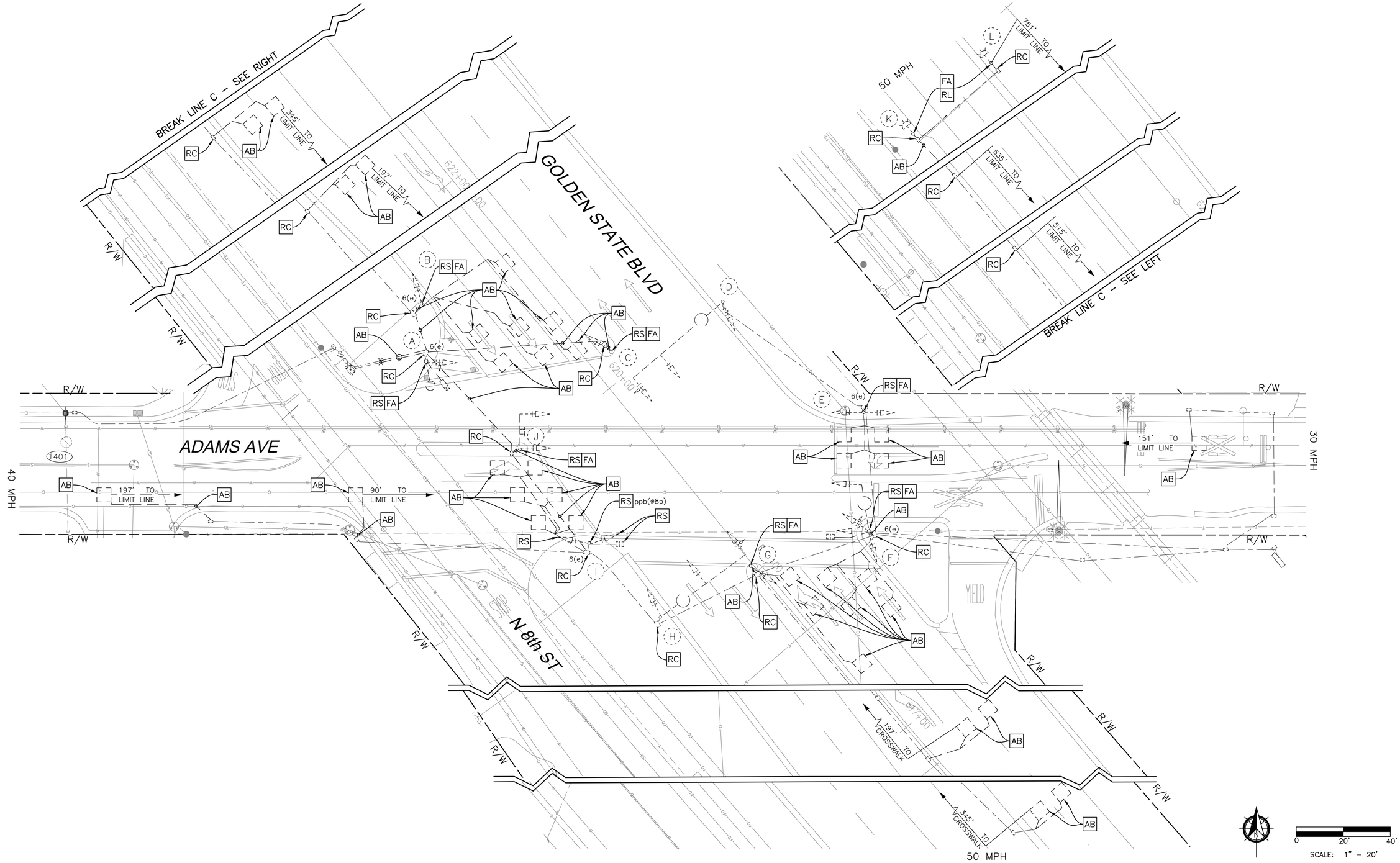
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT ADAMS AVE
EQUIPMENT AND CONDUCTOR SCHEDULE

DRAWING NO. E-29 SHEET NO. 136 TOTAL 142



		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/19/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/19/2021		
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516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STEVEN LOUIS BENAVIDES No. 90016 Exp. 12/31/21 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

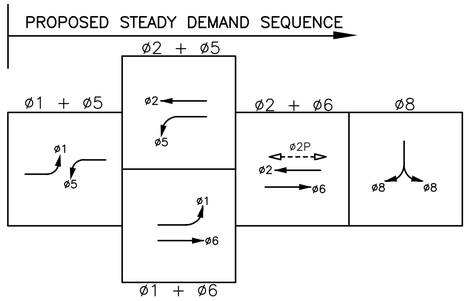
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT ADAMS AVE
TRAFFIC SIGNAL DEMOLITION PLAN

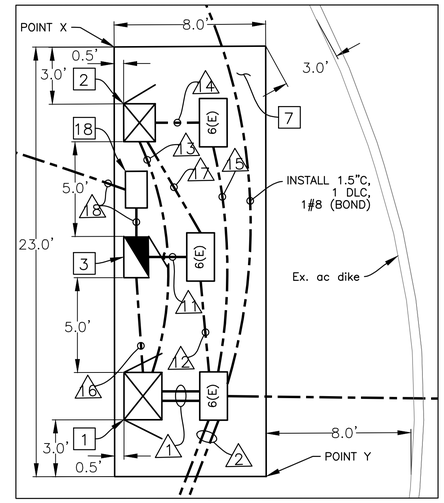
DRAWING NO. E-30 SHEET NO. 137 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\2b Golden State Blvd at Adams Ave\Golden State Blvd at Adams Ave.dwg PLOT DATE: 3/19/2021 3:11:31 PM CAD USER: CAYALA

30



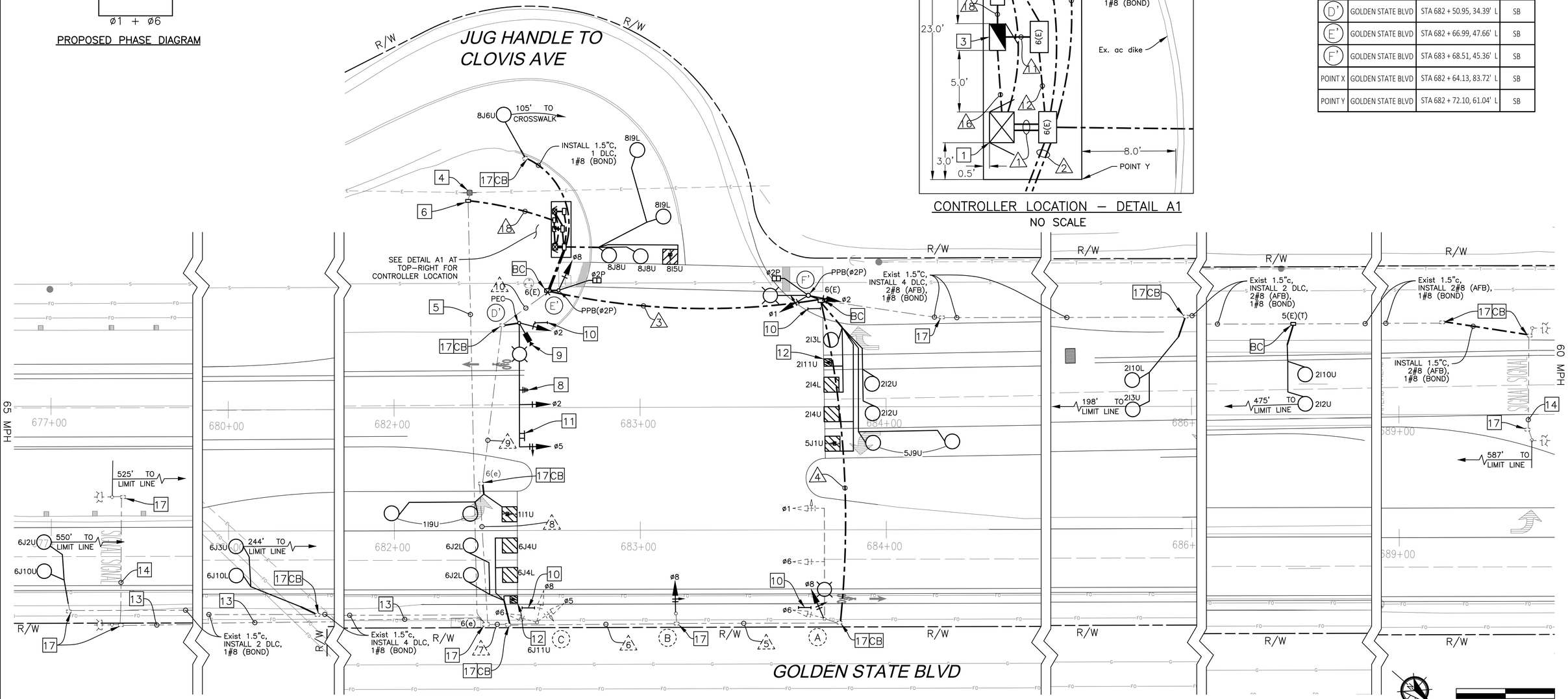
PROPOSED PHASE DIAGRAM



CONTROLLER LOCATION – DETAIL A1

NO SCALE

POLE PLACEMENT LOCATION			
POLE	LOCATION		DIRECTION
D'	GOLDEN STATE BLVD	STA 682 + 50.95, 34.39' L	SB
E'	GOLDEN STATE BLVD	STA 682 + 66.99, 47.66' L	SB
F'	GOLDEN STATE BLVD	STA 683 + 68.51, 45.36' L	SB
POINT X	GOLDEN STATE BLVD	STA 682 + 64.13, 83.72' L	SB
POINT Y	GOLDEN STATE BLVD	STA 682 + 72.10, 61.04' L	SB



	DATE	RECORD DRAWING	
DESIGNED: J. BENAVIDES	03/30/2021	RESIDENT ENGINEER	DATE
DRAWN: C. AYALA-MAGANA	03/30/2021		
CHECKED: J. RIOS	03/30/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN

SUPERVISING ENGINEER DATE

STEVEN LUIS REGISTERED PROFESSIONAL ENGINEER No. 81071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT

GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS

FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT JUG HANDLE TO CLOVIS AVE TRAFFIC SIGNAL MODIFICATION

DRAWING NO. E-31 SHEET NO. 138 TOTAL 142

PROJECT NOTES (FOR SHEET E-31 TO E-34 ONLY):

1. FURNISH AND INSTALL 2070LX CONTROLLER WITH THE MOST CURRENT NAZTEC FIRMWARE AND 2070-7A CARD. CONTROLLER AND MODULES SHALL BE FULLY COMPATIBLE WITH EXISTING CITY OF FRESNO TRAFFIC OPERATIONS CENTER SYSTEM & SOFTWARE WITHOUT ANY ADDITIONAL COST OR UPGRADES TO THE CITY. NEW TYPE 332L CABINET WITH ALL ANCILLARY DEVICES FOR A FULL EIGHT PHASE OPERATION AS SPECIFIED IN THE SPECIFICATIONS. NEW MODEL 332L SHALL BE MODIFIED TO CITY STD. DWG. E-34A AND E-34B FOR PREEMPTION AND C11S CABLE WIRING. FRONT DOOR SHALL FACE WEST. FURNISH AND INSTALL GPS CLOCK.
2. FURNISH AND INSTALL MODEL 336 ITS CABINET AND ITS EQUIPMENT. SEE CITY STANDARD DRAWINGS ITS-20A, ITS-21B, ITS-21C, AND ITS -21D COMPLETE TO CITY OF FRESNO SPECIFICATIONS AND REQUIREMENTS.
3. FURNISH AND INSTALL 26-100 SERVICE ENCLOSURE. CONTRACTOR SHALL COORDINATE WITH PG&E FOR POINT OF SERVICE CONNECTION AND METER SET.
4. EXISTING PG&E POINT OF SERVICE.
5. EXISTING 3" c, PG&E CONDUCTORS. CONTRACTOR TO COORDINATE WITH PG&E FOR THE DISCONNECT AND REMOVAL OF EXISTING CONDUCTORS ONCE THE NEW SERVICE ENCLOSURE AND CABINETS ARE OPERATIONAL.
6. PROPOSED PG&E POINT OF SERVICE LOCATION BOX (#2 PG&E BOX).
7. INSTALL 8' X 23' X 3.5" PCC PAD PER CITY OF FRESNO STANDARD P-5.
8. FURNISH AND INSTALL ITS WIRELESS EQUIPMENT PER CITY OF FRESNO DRAWING ITS-27A AND ITS-27B.
9. FURNISH AND INSTALL IP CAMERA PER CITY OF FRESNO STANDARD DRAWING ITS-18B.
10. FURNISH AND INSTALL TYPE I PED BARRICADE WITH AN R9-3.
11. FURNISH AND INSTALL R73-2 (MOD) "U-TURN ONLY" PER DETAIL J ON SHEET ED-1.
12. INSTALL 3x3 BIKE LOOP PER DETAIL D AS SHOWN ON SHEET ED-1.
13. EXISTING 1.5" c, ADD 2#8 (AFB), AND 1#8 (BOND).
14. EXISTING 1.5" c, 3#14 (AFB), ADD 1#8 (BOND).
15. RS CONTROLLER CABINET AND SERVICE CABINET. COMPLETELY REMOVE AND DISPOSE OF CONTROLLER CABINET AND SERVICE PEDESTAL FOUNDATIONS AND CONCRETE FLAT WORK.
16. RS ALL EXISTING PEDESTRIAN PUSH BUTTONS ON EXISTING POLE.
17. RS EXISTING PULL BOX LID AND INSTALL VANDAL RESISTANT PULL BOX LID.
18. NO. 5(E) PULLBOX INSCRIBED "ELECTRICAL".

LEGEND (SHEETS E-31 TO E-34 ONLY):

- TYPE E CIRCULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED.
- TYPE D LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC SEALANT OR HOT MELT RUBBERIZED. BICYCLE DETECTOR SYMBOL TO BE INSTALLED PER CALTRANS STANDARD PLAN A24-C ON CENTER OF THE DETECTOR WHERE SHOWN ON PLAN. ARROW SIGNIFIES DIRECTION OF TRAVEL.
- WIRELESS RADIO ANTENNA
- FURNISH AND INSTALL NEW IP VIEWING DEVICE
- NEW CONDUIT
- EXISTING CONDUIT
- RS REMOVE AND SALVAGE EQUIPMENT.
- CB INSTALL NEW CONDUIT INTO EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- FA FOUNDATION TO BE ABANDONED. REMOVE TOP OF FOUNDATION TO A POINT 36" BELOW THE FINISH GRADE.

CONSTRUCTION NOTES (SHEETS E-31 TO E-34 ONLY):

1. ALL PULL BOXES ACCESSED BY CONTRACTOR SHALL BE CLEANED OF ALL DIRT AND DEBRIS, ANY CRACKS GROUTED AND ALL CONDUITS DUCT SEALED.
2. ALL PULLBOXES SHALL BE LEVELED TO FINISH GRADE (NEW AND EXISTING).
3. ALL PULLBOXES IN DIRT AREAS SHALL HAVE 1' COLLAR PER GENERAL NOTE 10 (NEW AND EXISTING).
4. ANY BROKEN/DAMAGED PULLBOXES SHALL BE REPLACED.
5. ALL PULLBOXES SHALL HAVE LOCKING LIDS. TRAFFIC RATED LIDS SHALL BE WELDED CLOSED AFTER FINAL INSPECTION.
6. ALL UNUSED CONDUCTORS SHALL BE REMOVED.

GENERAL NOTES (FOR SHEETS E-31 TO E-34 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2010 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), AND THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113KM/H WIND VELOCITY AND TYPE 1-A POLES SHALL BE PER THE STATE STANDARD PLANS AND SPECIFICATIONS, DATED JULY 1997.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
3. NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/ OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 1-800-227-2600 AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO OBSERVE THE MARKED LOCATIONS.
8. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE COUNTY OF FRESNO PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE COUNTY, CONTACT AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS OR DRIVEWAYS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION OF THE TRAFFIC SIGNAL. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. LIDS SHALL BE TORQUED TO 25 FT. LBS.
10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FOWLER ENGINEER.
13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
15. PEDESTRIAN MODULE SHALL BE INSTALLED ON THE LEFT SIDE, FACING THE FRONT, OF THE 332 CABINET.
16. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
17. SEALANT FOR FILLING THE SAWCUT LOOPS SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS, OR ELASTOMERIC SEALENT, 3M, BLACK 5000.
18. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
19. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
20. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
21. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF FRESNO TSSL SHOP AT (559) 621-1312 ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW OVERSIZED STREET NAME SIGNS ON SIGNAL STANDARDS, AS SHOWN ON THE PLAN. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
25. ALL SIGNS SHALL BE 3M-3930HIP TYPE III & IV SERIES REFLECTIVE SHEETING AND BE COVERED WITH 1160A PREMIUM OVERLAY ANTI-GRAFFITI FILM OR AVERY DENNISON T6500 SERIES REFLECTIVE SHEETING AND SHALL BE COVERED WITH AVERY DENNISON OL1000 ANTI-GRAFFITI OVERLAY FILM.
26. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
27. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
28. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
29. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HEAD (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
30. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
31. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA NAVIGATOR OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON. THE APS CENTRAL CONTROL UNIT (CCU) SHALL BE MOUNTED WITH A CITY-APPROVED MANUFACTURED BRACKET, McCAIN M49021 OR APPROVED EQUAL. CCU SHALL BE MOUNTED TO THE REAR RACK, IN THE UPPER LEFT CORNER WHEN VIEWED FROM THE FRONT OF THE CABINET. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3, & 5. CONTRACTOR SHALL PROVIDE THE COUNTY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM AND DIGITAL COPIES OF THE CUSTOM AUDIO VIA EMAIL.

ITS GENERAL NOTES (FOR SHEETS E-31 TO E-34 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF FRESNO STANDARD SPECIFICATIONS, DRAWINGS, TECHNICAL SPECIFICATIONS AND THE SPECIAL PROVISIONS.
2. ALL ITS FACILITIES, INCLUDING THE CABINETS, CAMERA STANDARDS, VAULTS, CONDUITS, ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO COMMUNING TO WORK TO VERIFY MARKED LOCATIONS.
3. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY RELOCATIONS, INCLUDING OVERHEAD CONFLICTS.
4. CONTRACTOR SHALL FURNISH AND INSTALL C11S CABLE IN 332 CABINET PER CITY OF FRESNO STANDARD E-34B AS NOTED ON THE PLANS.
5. INTELLIGENT TRANSPORTATION SYSTEM SHALL BE OPERATIONAL AND RESTORED IN KIND, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL MAINTAIN 2 FEET LOOP MINIMUM EXCESS OF IP CAMERA CABLES IN THE #6 PULL BOX.
7. CONTRACTOR SHALL UTILIZE RED TAPE FOR IP CAMERA AND BLUE TAPE FOR WIRELESS ANTENNA CAT5E.
8. PRIOR TO ANY EXCAVATION AND/OR BORING, CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS TO VERIFY SIZE, DEPTH AND TYPE OF PIPE. MAINTAIN MINIMUM CLEARANCES AND EXISTING UTILITIES PER APPLICABLE CITY OF FRESNO STANDARD DRAWINGS ITS-6, ITS-7, ITS-8, ITS-9 AND ITS-10.
9. SURFACE INTERIOR AND EXTERIOR FINISH OF ALUMINUM COMMUNICATION CABINET MUST COMPLY WITH MIL-A-8625 FOR TYPE II, CLASS 1 COATING (REF: SECTION 86-3.01 OF THE 2010 STATE STANDARD SPECIFICATIONS).
10. POLE HANDHOLE SHALL BE WELDED IN PLACE AFTER ALL PROVIDED WORK ON EXISTING POLE IS COMPLETED AND INSPECTED. CONTRACTOR SHALL PROTECT CONDUCTORS FROM DAMAGE DURING WELDING.
11. ALL EXISTING DATA CABLES FROM THE 2070 CONTROLLER TO THE NETWORK SWITCH IN THE COMMUNICATION CABINET SHALL BE REPLACED WITH NEW OUTDOOR SHIELDED CAT5E CABLE, UNLESS OTHERWISE NOTED ON THE INTERSECTION PLANS.
12. ANY DEFECTIVE EXISTING LOOP MODULES SHALL BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR. ALL PROPOSED LOOP MODULES (222 TWO CHANNEL) AS NOTED ON THE PLANS SHALL BE INSTALLED PER CITY STANDARDS AND SPECIFICATIONS.
13. ALL IP CAMERAS SHALL BE PANORAMIC, UNLESS OTHERWISE NOTED ON PLANS.
14. REMOVE UNUSED ITS EQUIPMENT IN TRAFFIC SIGNAL (332) CABINET AS DIRECTED BY THE ENGINEER.

ITS WIRELESS NOTES (FOR SHEETS E-31 TO E-34 ONLY):

1. THE CONTRACTOR SHALL BE OBLIGATED TO FAMILIARIZE THEMSELVES WITH CURRENT SIGNAL POLES IN FIELD PRIOR TO CONSTRUCTION.
2. RADIO AND ONE ANTENNA SHALL BE MOUNTED BEHIND SIGNAL HEAD FOR THE LEAST AMOUNT OF WIND LOADING.
3. SHIELDED, OUTDOOR RATED CAT5E CABLE LENGTH SHALL NOT EXCEED 300 FEET. SEE CITY OF FRESNO STANDARD ITS-27A AND ITS-27B FOR FURTHER DETAILS.
4. A LOW LOSS 50 OHM COAX CABLE SHALL BE USED TO CONNECT THE ANTENNA TO THE ACCESS POINT UNIT.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY VISUAL OBSTACLES THAT MAY OBSTRUCT THE LINE OF SIGHT PRIOR TO INSTALLATION, SUCH AS TREES, GRADE SEPARATIONS, ETC.
6. A SEPARATION OF AT LEAST 2 FEET BETWEEN ANTENNAS IS REQUIRED.
7. TERMINATIONS OF OUTDOOR RATED SHIELDED CAT5E WITH SHIELDED GROUNDING, CONTRACTOR SHALL USE RJ-45 SHIELDED MODULAR CONNECTOR WITH INTERNAL GROUND.
8. CAT5E CONNECTION TO ACCESS POINT SHALL BE MADE USING THE WATERPROOF CONNECTOR SUPPLIED WITH THE ACCESS POINT.
9. ALL ANTENNAS SHALL BE ORIENTED IN THE VERTICAL POLARIZATION POSITION WHEN INSTALLED.
10. CONTRACTOR SHALL TRIM AND DISPOSE OF BRANCHES FROM ALL TREES THAT MAY OBSTRUCT LINE OF SIGHT OF WIRELESS ITS PRIOR TO INSTALLATION AS DIRECTED BY THE ENGINEER.
11. RADIO RSSI BETWEEN ADJACENT INTERSECTIONS SHALL BE BETWEEN -60DBM AND -40DBM FOR ALL RADIOS INSTALLED ON THIS PROJECT. OPTIMAL RSSI IS -55DBM. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS AT ADJACENT INTERSECTIONS IF NECESSARY.
12. RADIO CCQ VALUES SHALL BE A MINIMUM OF 75% PER MANUFACTURER RECOMMENDATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS AT ADJACENT INTERSECTIONS IF NECESSARY.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/30/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/30/2021		
CHECKED:	J. RIOS	03/30/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE: (559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART L. POLLOCK REGISTERED PROFESSIONAL ENGINEER No. 38071 Exp. 6/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT JUG HANDLE TO CLOVIS AVE LEGEND AND NOTES

DRAWING NO. E-32 SHEET NO. 139 TOTAL 142

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
			2-4"	2-4"	4"	4"	3"	3"	3"	3"	3"	3"	2"	2"	2-1½" HDPE	4-1½" HDPE	2-1½" HDPE	1½"	2"	2"
CONDUIT FILL			14%	15%	14%	4%	1%	3%	11%	16%	18%	24%	18%	16%	1%	1%	1%	14%	3%	13%
7 COND. CABLE (VEH.) *	A	1,6,8 / -	2 / -	2 / -	2 / -	2 / -														
	B	8 / -	1 / -	1 / -				1 / -	1 / -	1 / -	1 / -	1 / -								
	C	5,6,8 / -	2 / -	2 / -					2 / -	2 / -	2 / -	2 / -								
	D'	2,5 / -	1 / -	1 / -								1 / -								
5 COND. CABLE (PED.) *	E'	8 / 2P	1 / 1	1 / 1																
	F'	1,2 / 2P	1 / 1	1 / 1	1 / 1															
TOTAL			8 / 2	8 / 2	3 / 1	2 / -		1 / -	3 / -	3 / -	3 / -	4 / -								
3 COND. CABLE (PPB)	E'	2P	1	1																
	F'	2P	1	1	1															
TOTAL			2	2	1															
TYPE C DETECTOR LEAD-IN CABLE	Ø1		2	2							2	2								
	Ø2		9	9	9															
	Ø5		2	2	2															
	Ø6		8	8					4	8	8	8								
	Ø8		4																	
	TOTAL DLC		25	21	11				4	8	10	10								
# 2	SERVICE																			3
# 4	SIGNAL POWER																	2		
# 6	SAFETY LIGHTS			2	2	2						2	2	2						
# 8	FLASHING BEACON			4	2					2	2	2	4	4						
# 8	BONDING WIRE		1	1	1	1	1	1	1	1	1	1	1	1				1	1	
# 12	PEU CONTROL			3								3	3	3						
# 12	ITS 336 POWER												2						2	
CAT5E	WIRELESS ANTENNA			1								1				1	1			
CAT5E	IP CAMERA			1								1				1	1			
CAT5E	CABINETS														1					

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL CONDUCTORS ARE NEW UNLESS OTHERWISE INDICATED WITH "( )".

EQUIPMENT SCHEDULE

No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	VEH SIG MTG Mast Arm	VEH SIG MTG Pole	PED SIGNAL ø	PED SIGNAL MTG	PPB ø	PPB ARROW	HPS EQUIV. LUMINAIRE WATTAGE	PG&E POLE No.	SPECIAL REQUIREMENTS
A	26-4-129	45'	15'	MAS MAS	SV-2-T	–	–	–	–	78W LED (N)	XXXX	REMOVE AND SALVAGE EXISTING Ø8 VEHICLE SIGNAL HEAD, PEDESTRIAN HEAD, PPB ASSEMBLY AND LUMINAIRE. FURNISH AND INSTALL NEW Ø8 VEHICLE SIGNAL HEAD ON POLE AND LUMINAIRE ON LMA FURNISH AND INSTALL SNS "CLOVIS AVE" COMPLETE WITH MOUNTING HARDWARE ON POLE.
B	1-A (10')	–	–	–	TV-1-T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING VEHICLE SIGNAL HEAD. FURNISH AND INSTALL NEW Ø8 VEHICLE SIGNAL HEAD.
C	1-A (10')	–	–	–	TV-3-T	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY AND PEDESTRIAN HEAD.
D	26-4-113	45'	15'	MAS MAS	SV-1-T	6	SP-1-T	8	LEFT	150W	XXXX	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT.
D'	29-5-113 (N)	50' (N)	15' (N)	(N) MAT (N) $MAS_{F=17'}$	SV-1-T (N)	–	–	–	–	78W LED (N)	XXXX	FURNISH AND INSTALL SNS "CLOVIS AVE" COMPLETE WITH MOUNTING HARDWARE ON POLE. FURNISH AND INSTALL PEC ON TOP OF POLE. FURNISH AND INSTALL R73-2 (MOD) "U-TURN ONLY" SIGN AND WIRELESS ANTENNA ON SMA COMPLETE WITH MOUNTING HARDWARE.
E	1-A (10')	–	–	–	TV-1-T	8	SP-1-T	6	RIGHT	–	–	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT.
E'	1-A (10')(N)	–	–	–	TV-1-T (N)	2 (N)	SP-1-T (N)	2 (N)	LEFT (N)	–	–	
F	19-4-113	–	15'	–	SV-2-TA	8 6	SP-2-T	8 6	RIGHT LEFT	150W	XXXX	REMOVE AND SALVAGE EXISTING POLE AND ALL EQUIPMENT ATTACHED TO IT.
F'	15TS (N)	–	15' (N)	–	SV-2-TA (N)	2 (N)	SP-1-T (N)	2 (N)	RIGHT (N)	78W LED (N)	XXXX	

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED WITH (N).
2. ALL INDICATIONS SHALL BE 12" LED MODULES.
3. STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND 12" UPPERCASE 9" LOWERCASE, 4" BLOCK NUMBERS, 4" WIDE ARROWS, SERIES "D" TEXT ON TYPE XI DIAMOND GRADE SHEETING AND 3M TYPE XI DG3 OR APPROVED EQUAL.
4. LED INTERSECTION SAFETY LIGHT LUMINAIRES INSTALLED AND SHALL BE CREE RSWS-A-HT-3ME-6L-4OK7-UL-GY-N FULL POWER: 78W, 9325 LUMEN, 4000K, CRI70-B1-U0-G2, RSWS9056&SP.

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/30/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/30/2021		
CHECKED:	J. RIOS	03/30/2021		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811 CALL BEFORE YOU DIG

JLB TRAFFIC ENGINEERING, INC.
516 W. SHAW AVE., STE. 103
FRESNO, CA 93704
PHONE:(559) 570-8991
EMAIL: info@JLBtraffic.com

TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART L. BEAVERS No. 0 Exp. 12/31/21 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

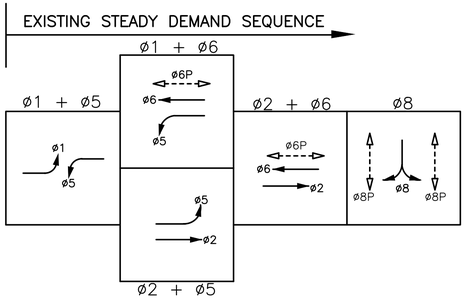
PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1909

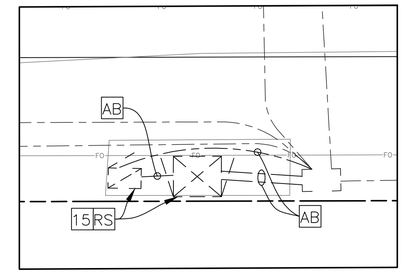
DEPARTMENT OF PUBLIC WORKS AND PLANNING

GOLDEN STATE BLVD AT JUG HANDLE TO CLOVIS AVE COND. AND EQUIP. SCHEDULE

DRAWING NO. E-33 SHEET NO. 140 TOTAL 142

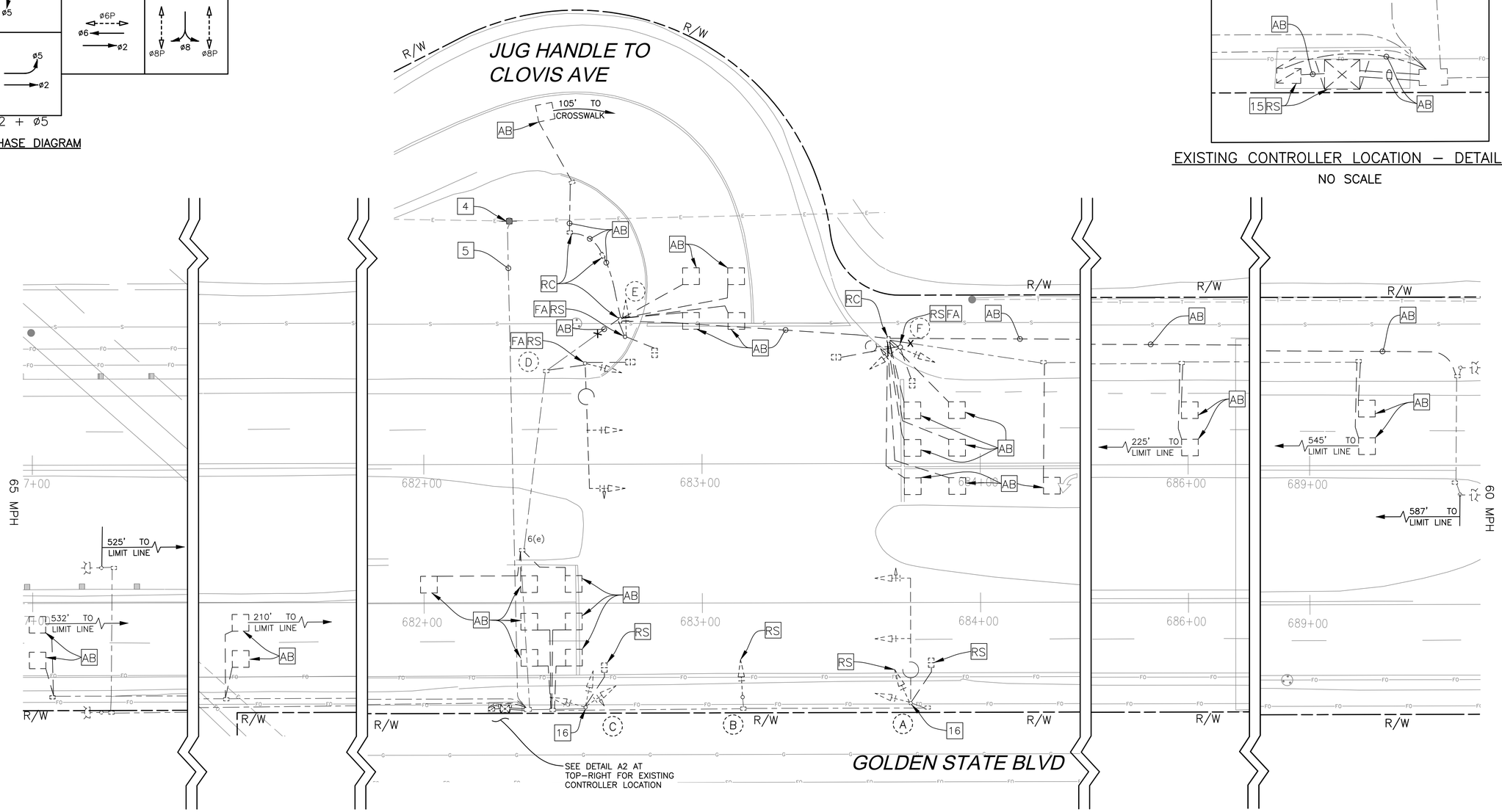


EXISTING PHASE DIAGRAM



EXISTING CONTROLLER LOCATION – DETAIL A2

NO SCALE



SCALE: 1' = 20"

		DATE	RECORD DRAWING	
DESIGNED:	J. BENAVIDES	03/30/2021	RESIDENT ENGINEER	DATE
DRAWN:	C. AYALA-MAGANA	03/30/2021		
CHECKED:	J. RIOS	03/30/2021		

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TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

STUART LOUIS BENAVIDES REGISTERED PROFESSIONAL ENGINEER No. 94971 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER, CALIFORNIA 1909

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD AT JUG HANDLE TO CLOVIS AVE TRAFFIC SIGNAL DEMOLITION PLAN

DRAWING NO. E-34 SHEET NO. 141 TOTAL 142

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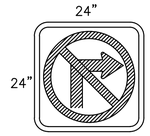
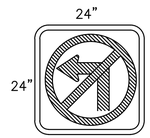
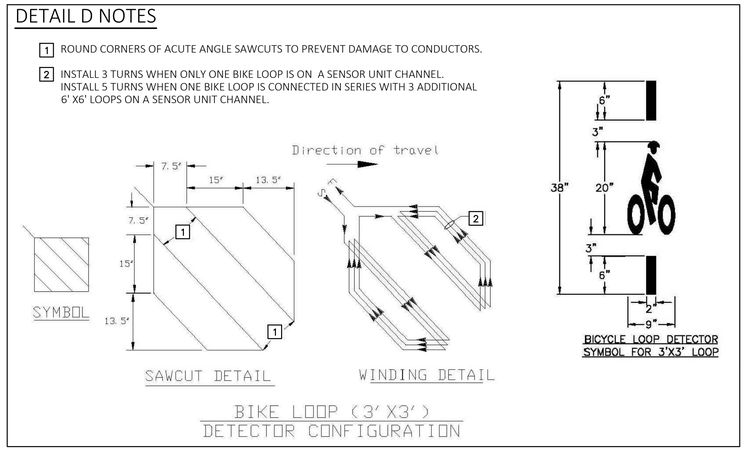


R3-1 BLANK OUT SIGN (24" x 24") – DETAIL B

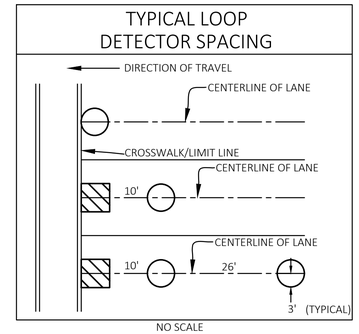


R3-2 BLANK OUT SIGN (24" x 24") – DETAIL C

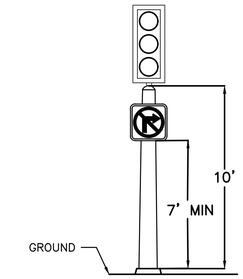


TYPE D 3'X3' BIKE LOOP – DETAIL D

NO SCALE



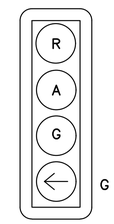
TYPICAL LOOP DETECTOR PLACEMENT – DETAIL E



1-A (10') BLANK-OUT SIGN PLACEMENT – DETAIL F

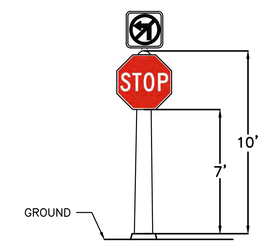
NO SCALE

R73-2 (MOD) – DETAIL J



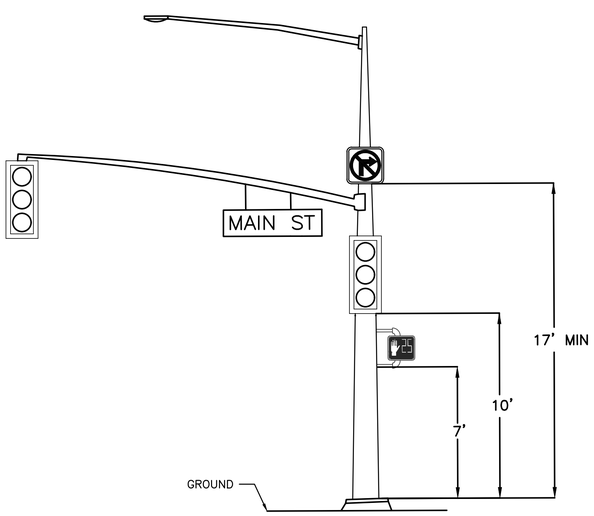
4-SECTION SIGNAL HEAD – DETAIL H

WARNING LABEL – DETAIL I



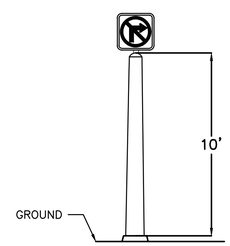
1-A (10') BLANK-OUT SIGN PLACEMENT – DETAIL M

NO SCALE



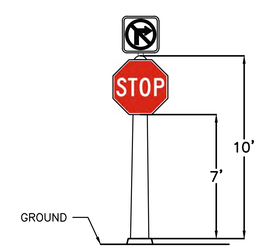
BLANK-OUT SIGN PLACEMENT – DETAIL G

NO SCALE



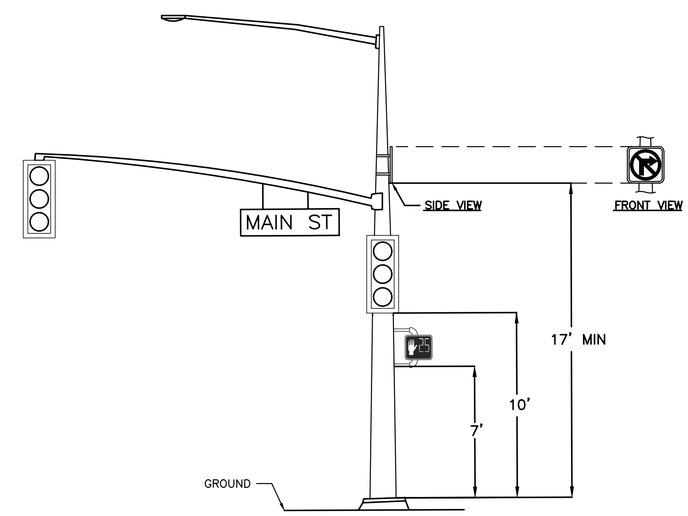
1-A (10') BLANK-OUT SIGN PLACEMENT – DETAIL K

NO SCALE



1-A (10') BLANK-OUT SIGN PLACEMENT – DETAIL N

NO SCALE



BLANK-OUT SIGN PLACEMENT – DETAIL L

NO SCALE

	DATE	RECORD DRAWING	
DESIGNED: J. BENAVIDES	04/06/2021	RESIDENT ENGINEER	DATE
DRAWN: C. AYALA-MAGANA	04/06/2021		
CHECKED: J. RIOS	04/06/2021		

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TENTATIVE PLANS FOR DESIGN
SUPERVISING ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER JESUS LUIS BENAVIDES No. 80071 Exp. 06/30/22 CIVIL STATE OF CALIFORNIA

PROJECT
GOLDEN STATE CORRIDOR - ECONOMIC DEVELOPMENT AND INFRASTRUCTURE IMPROVEMENTS
FOWLER REGION

THE CITY OF FOWLER CALIFORNIA 1908

DEPARTMENT OF PUBLIC WORKS AND PLANNING
GOLDEN STATE BLVD DETAILS
FOWLER REGION

DRAWING NO. ED-1 SHEET NO. 142 TOTAL 142

PATH: Z:\01 Projects\009 Fresno County\009-009 Golden State PS&E_Traffic Signal Designs\General Details and Notes\GSB Detail - Fowler Region.dwg PLOT DATE: 4/6/2021 4:30:57 PM CAD USER: CAYALA