CITY OF TURLOCK

CONSTRUCTION PLANS FOR ROADS PROGRAM CAPITAL IMPROVEMENT PROJECT

FEDERAL PROJECT: RSTPL-5165(103)

CITY PROJECT NO. 23-052

GEER ROAD PAVEMENT REHABILITATION PROJECT

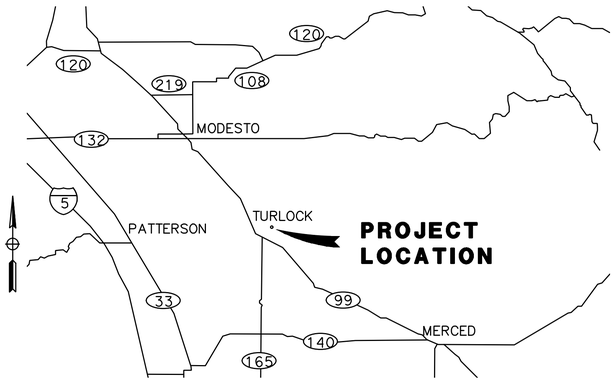
PHASES 1, 2, AND 3

(PHASE 1) GEER RD: N GOLDEN STATE BLVD TO HAWKEYE AVE
(PHASE 2) GEER RD: HAWKEYE AVE TO MONTE VISTA AVE
(PHASE 3) GEER RD: MONTE VISTA AVE TO TAYLOR RD

SUPPLEMENTED BY CALTRANS STANDARD PLANS
AND STANDARD SPECIFICATIONS DATED 2025
AND CITY OF TURLOCK ENGINEERING DESIGN STANDARD
SPECIFICATIONS AND DRAWINGS DATED 2016.

CALIFORNIA STATE MAP

NO SCALE



VICINITY MAP

NO SCALE

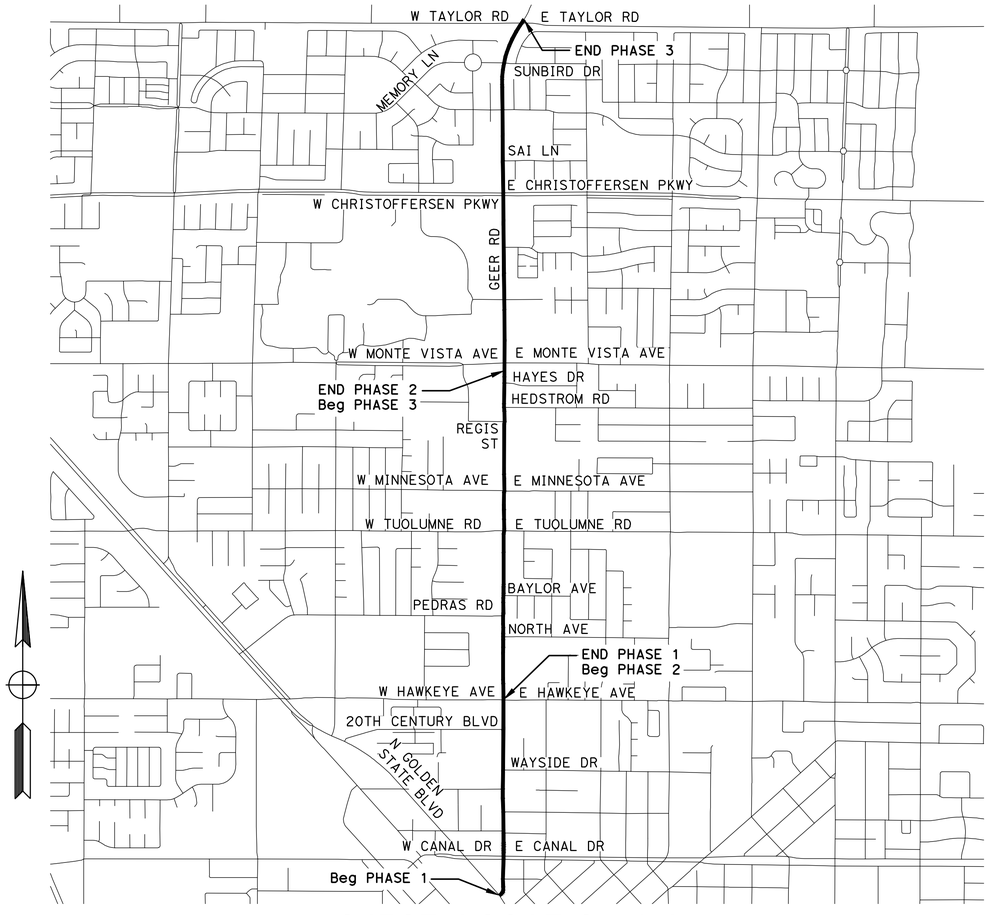
CITY OF TURLOCK APPROVAL

06/23/2026

WILLIAM D. MORRIS, P.E., P.L.S — DATE
CITY ENGINEER
MUNICIPAL SERVICES DEPARTMENT

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL
"UNDERGROUND SERVICE ALERT" (USA)
AT 811 AT LEAST 2 WORKING DAYS
PRIOR TO PERFORMING ANY EXCAVATION



PROJECT LOCATION MAP

NO SCALE

PHASES 1, 2, AND 3 SHEET INDEX

SHEET	DRAWING	TITLE
1	T-1	TITLE SHEET

PHASE 1 SHEET INDEX

SHEET	DRAWING	TITLE
2	T-1	TITLE SHEET
3-4	GN-1 TO GN-2	GENERAL NOTES
5	PC-1	PROJECT CONTROL
6	K-1	KEY MAP
7	X-1 TO X-2	TYPICAL SECTIONS
9-12	DM-1 TO DM-4	DEMOLITION PLANS
13-16	L-1 TO L-4	LAYOUTS
17-40	CD-1 TO CD-24	CONSTRUCTION DETAILS
41-50	G-1 TO G-10	GRADING PLANS
51-54	DU-1 TO DU-4	DRAINAGE AND UTILITIES
55	DP-1	DRAINAGE PROFILES
56-58	TH-1 TO TH-3	TRAFFIC HANDLING PLANS
59-62	SS-1 TO SS-4	SIGNING AND STRIPING
63-76	E-1 TO E-14	ELECTRICAL SHEETS

PHASE 2 SHEET INDEX

SHEET	DRAWING	TITLE
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78-79	GN-1 TO GN-2	GENERAL NOTES
80	PC-1	PROJECT CONTROL
81	K-1	KEY MAP
82-83	X-1 TO X-2	TYPICAL SECTIONS
84-88	DM-1 TO DM-5	DEMOLITION PLANS
89-93	L-1 TO L-5	LAYOUTS
94-119	CD-1 TO CD-26	CONSTRUCTION DETAILS
120-130	G-1 TO G-11	GRADING PLANS
131-135	DU-1 TO DU-5	DRAINAGE AND UTILITIES
136-139	TH-1 TO TH-4	TRAFFIC HANDLING PLANS
140-144	SS-1 TO SS-5	SIGNING AND STRIPING
145-146	IP-1 TO IP-2	IRRIGATION PLANS
147	ID-1	IRRIGATION DETAILS
148-149	PP-1 TO PP-2	PLANTING PLANS
150-161	E-1 TO E-12	ELECTRICAL PLANS

PHASE 3 SHEET INDEX

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164	PC-1	PROJECT CONTROL
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169-174	DM-1 TO DM-6	DEMOLITION PLANS
175-180	L-1 TO L-6	LAYOUTS
181-195	CD-1 TO CD-15	CONSTRUCTION DETAILS
196-207	G-1 TO G-12	GRADING PLANS
208-213	DU-1 TO DU-6	DRAINAGE UTILITIES
214	DP-1	DRAINAGE PROFILES
215-218	TH-1 TO TH-4	TRAFFIC HANDLING PLANS
219-224	SS-1 TO SS-6	SIGNING AND STRIPING
225-230	IP-1 TO IP-6	IRRIGATION PLANS
231-232	ID-1 TO ID-2	IRRIGATION DETAILS
233-238	PP-1 TO PP-6	PLANTING PLANS
239	PD-1	PLANTING DETAILS
240-253	E-1 TO E-14	ELECTRICAL PLANS
254-256	IC-1 TO IC-3	IRRIGATION CONTROLLER PLANS

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANADEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — ADRIANA A. ROBLEGA — No. C 41454 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASES 1, 2, AND 3
TITLE SHEET

Sheet 1 of 256 Sheets

T-1

CITY OF TURLOCK

CONSTRUCTION PLANS FOR ROADS PROGRAM CAPITAL IMPROVEMENT PROJECT

FEDERAL PROJECT: RSTPL-5165(103)

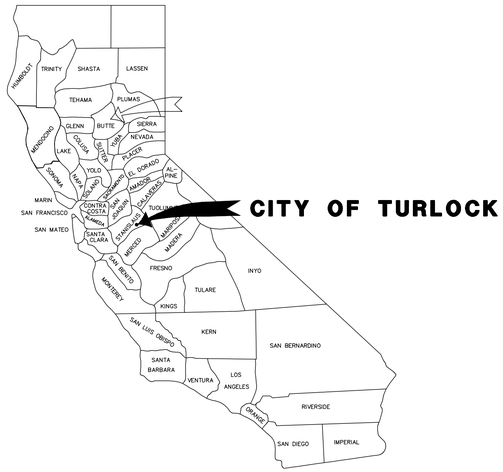
CITY PROJECT NO. 23-052

GEER ROAD PAVEMENT REHABILITATION PROJECT

PHASE 1

GEER RD: N GOLDEN STATE BLVD TO HAWKEYE AVE

SUPPLEMENTED BY CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS DATED 2025 AND CITY OF TURLOCK ENGINEERING DESIGN STANDARD SPECIFICATIONS AND DRAWINGS DATED 2016.



CALIFORNIA STATE MAP

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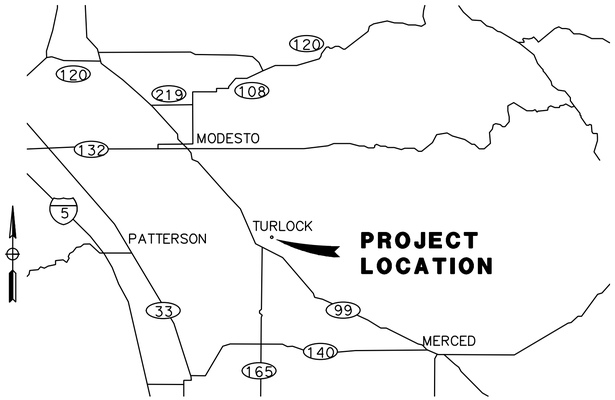

VICINITY MAP

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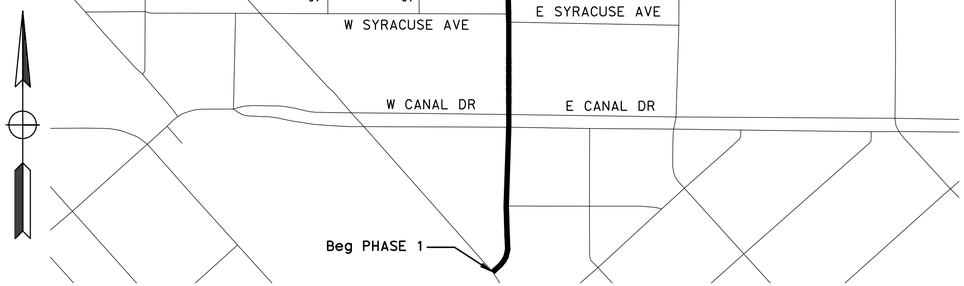

PROJECT LOCATION MAP

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UTILITY CONTACTS

UTILITY	CONTACT	PHONE
AT&T	RICHARD ABALLE	(209) 281-6739
CVIN	BILL KENIK	(559) 919-2467
CHARTER COMMUNICATIONS	MITCHELL KEELE	(209) 633-3346
TID ELECTRICAL	DAVID PORATH	(209) 605-0945
TID IRRIGATION	BILL PENNEY	(209) 883-8385
CITY OF TURLOCK ELECTRICAL	DOYLE PERRY	(209) 668-5590
CITY OF TURLOCK STORM AND SEWER	CARLOS GUERRERO	(209) 345-2169
CITY OF TURLOCK WATER	ORLANDO GUTIERREZ	(209) 740-3868
PG&E DISTRIBUTION	TRENT MILLSAP	(209) 561-6070
PG&E TRANSMISSION	MARTIN OCHOA	(925) 332-6076

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL "UNDERGROUND SERVICE ALERT" (USA) AT 811 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
TITLE SHEET

GENERAL NOTES:

1. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR. JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

2. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTER LINE OF THE STREET. ALL STATIONS ON THE CURBS ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTER LINE STATIONS, UNLESS OTHERWISE NOTED.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES.

4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT EDITION OF STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

5. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS; AND THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. CITY OF TURLOCK STANDARD DRAWINGS ARE AVAILABLE AT THE MUNICIPAL SERVICES DEPARTMENT.

6. CONSTRUCTION STAKING AND SURVEY IS THE RESPONSIBILITY OF THE CONTRACTOR. CONSTRUCTION STAKING SHALL BE PERFORMED BY A REGISTERED SURVEYOR OR ENGINEER RETAINED AND PAID FOR BY THE CONTRACTOR. THE SURVEYOR OR ENGINEER SHALL CERTIFY ON THE FINAL CONSTRUCTION DRAWING THAT THE STAKING WAS PERFORMED ACCORDING TO THE APPROVED PLANS.

7. TO SCHEDULE AN INSPECTION, THE CONTRACTOR SHALL CALL ROADS PROGRAM CONSTRUCTION INSPECTOR (209)668-5520, AT LEAST 24-HOURS PRIOR TO THE REQUIRED INSPECTION. THE CITY MUNICIPAL SERVICES DEPARTMENT WILL MAKE EVERY EFFORT TO PERFORM THE INSPECTION WITHIN THE NEXT BUSINESS DAY.

8. THE CITY OF TURLOCK OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION AND A 48 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.

9. DUST SHALL BE CONTROLLED BY THE CONTRACTOR AT ALL TIMES, INCLUDING HOLIDAYS AND WEEKENDS, PER SECTION 10 OF THE 2025 STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND THE CITY OF TURLOCK STANDARD SPECIFICATIONS. WATER USED FOR DUST CONTROL AND COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO THE START OF ANY WORK, AND ANY FEES OR DEPOSITS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CLEANLINESS OF THE EXISTING IMPROVED STREETS IN THE CONSTRUCTION AREA.

10. THE CONTRACTOR IS REQUIRED TO MAINTAIN PUBLIC SAFETY AT ALL TIMES. ANY OPERATION OR SITUATION THAT THREATENS THE SAFETY OF THE WORKERS OR PUBLIC, INCLUDING IMPROPER TRAFFIC CONTROL, WILL CAUSE THE SUSPENSION OF WORK UNTIL CORRECTIONS ARE MADE AND NO ADJUSTMENTS TO WORKING DAYS WILL BE GRANTED.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CLEAN AND SAFE WORKSITE AT ALL TIMES. IF THE CONTRACTOR FAILS TO MAINTAIN A CLEAN WORKSITE, THE CITY MAY ORDER STREET SWEEPING OR ORDER CORRECTIVE ACTION AT COST TO THE CONTRACTOR.

12. MATERIALS TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE ENGINEER.

13. STANDARD DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS, SHOWN THUS; (i E. STD C-1)

14. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PRIOR TO THE EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH. UTILITY TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE TRENCHING AND COMPACTION REQUIREMENTS OF THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS. REFER TO STD T—1, T-2, AND T-3. ERRATA 1 2019 TRENCHING DETAILS.

15. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATIONS OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.

17. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED. ALL EXISTING MANHOLE LIDS WITHIN LIMITS OF STREET IMPROVEMENT SHALL BE MARKED AND TIED TO SURVEY PRIOR TO ADJUSTMENT.

18. FOR ALL WORK PERFORMED WITHIN PUBLIC RIGHT-OF—WAYS, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT, PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES, AND PROVIDE NECESSARY CONSTRUCTION TRAFFIC CONTROL FOR STREET IMPROVEMENTS. THE CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY THE NEED FOR ANY DETOUR PLAN WITH THE CITY OF TURLOCK. IF A PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE APPROVAL PRIOR TO CONSTRUCTION.

19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.

20. THE CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771(b) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS. PRESERVATION OF EXISTING MONUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. THE ENGINEER WILL TIE OFF SAID MONUMENTS AND PROVIDE THE CONTRACTOR NOTICE TO PROCEED.

21. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF TURLOCK ARE FOLLOWED AS WELL AS TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (USA) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER (800)-642-2444, THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO POSITIVELY LOCATE (POTHOLE) AND PROTECT ALL EXISTING UTILITIES THAT MAY CONFLICT WITH ANY WORK ASSOCIATED WITH THIS CONTRACT SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY NECESSARY REPAIRS TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.

22. THE CONTRACTOR SHALL REACH OUT TO AFFECTED RESIDENTS PRIOR TO CONSTRUCTION TO INFORM THEM OF THE RELOCATION OF ANY FENCE OR VEGETATION.

23. THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND/OR IRRIGATION DISTURBED DURING CONSTRUCTION ACTIVITIES AND REPLACE LANDSCAPING WITH SOD WHERE GRASS IS DISTURBED. THE CONTRACTOR SHALL RELOCATE SPRINKLERS AS NECESSARY SO AS TO WATER OWNER'S LANDSCAPING, BUT NOT NEW CONCRETE SURFACES, TYPICAL OF ALL LOCATIONS WHERE GRASS OR BUSHES HAVE BEEN PLANTED BY OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IRRIGATION IN THE CASE OF ANY INTERRUPTION OF SERVICE, INCLUDING DURING HOLIDAYS AND WEEKENDS. ANY DEAD LANDSCAPING DUE TO CONSTRUCTION ACTIVITIES OR INTERRUPTION OF IRRIGATION SERVICE SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.

24. WITHIN LIMITS OF THE PROJECT, WHERE EXISTING CURB IS REPLACED, ANY PAINT ON THE EXISTING CURB SHALL BE REPLACED IN KIND ON THE NEW CURB. THIS INCLUDES BUT IS NOT LIMITED TO RED CURB, WHITE CURB, AND HOUSE NUMBERS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING TREES, SHRUBS AND OTHER PLANTS THAT ARE NOT TO BE REMOVED. OVERHEAD UTILITY POLES/LINES, FENCES, SIGNS, MARKERS AND MONUMENTS, BUILDINGS AND STRUCTURES, CONDUITS, PIPELINES UNDER OR ABOVE GROUND, SEWER AND WATER LINES, SPRINKLER SYSTEMS ABOVE OR BELOW GROUND, ALL ROADWAY FACILITIES, AND ANY OTHER IMPROVEMENTS OR FACILITIES WITHIN OR ADJACENT TO THE RIGHT-OF—WAY SHALL BE PROTECTED BY THE CONTRACTOR FROM INJURY OR DAMAGE. IF ORDERED BY ENGINEER, THE CONTRACTOR SHALL PROVIDE AND INSTALL SUITABLE SAFEGUARDS, APPROVED BY ENGINEER, TO PROTECT SUCH OBJECTS FROM INJURY OR DAMAGE.

26. THE CONTRACTOR SHALL COMPLETE ALL REQUIRED EARTHWORK, GRADING, AND INITIAL PAVING (FIRST LIFT) WITHIN EIGHT (8) CALENDAR DAYS AFTER PAVEMENT REMOVAL. THE CONTRACTOR IS NOT ALLOWED TO DEMO ALL OF THE PEDESTRIAN CURB RAMPS AT THE SAME TIME. THE CONTRACTOR SHALL SCHEDULE THE CURB RAMP REPLACEMENT WORK TO PROVIDE PEDESTRIAN ACCESS AT ALL TIMES.

27. NEW OR REPLACED CURB AND GUTTER, SIDEWALK, OR DRIVEWAY SHALL INCLUDE NECESSARY GRADING BEHIND THE IMPROVEMENT TO CONFORM TO EXISTING CONDITION, UP TO 5 FEET OR TO THE CITY RIGHT-OF-WAY. WHERE ANY CONSTRUCTION ACTIVITY MAY ENCROACH INTO PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

CLEARING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING AND GRUBBING, PRUNING AND REMOVING TREE ROOTS THAT INTERFERE WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO TREE ROOTS ARE PRUNED OR CUT THAT COULD COMPROMISE THE STABILITY OF THE TREE. THE CONTRACTOR SHALL RETAIN AN ARBORIST, AT THEIR OWN EXPENSE PRIOR TO BEGINNING THE WORK. THE CONTRACTOR'S ARBORIST SHALL PROVIDE A WORK PLAN THAT DESCRIBES THE METHOD OF PRUNING AND REMOVING MINOR TREE ROOTS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE ARBORIST WILL PROVIDE RECOMMENDATIONS FOR REVIEW BY THE CITY.

DUST CONTROL NOTES:

1. SPRAY WATER ON ALL EXPOSED EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING AND OTHER SITE PREPARATION ACTIVITIES THROUGHOUT THE DAY TO MINIMIZE DUST. USE TARPAULINS OR OTHER EFFECTIVE COVERS ON ALL STOCKPILED EARTH MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST. SWEEP THE ADJACENT STREET FRONTAGES AT LEAST ONCE A DAY OR AS NEEDED TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. ENSURE THAT CONSTRUCTION VEHICLES ARE CLEANED PRIOR TO LEAVING THE SITE TO PREVENT DUST AND DIRT FROM BEING TRACKED OFF SITE.

2 ALL EXPOSED SURFACES SHALL BE WATERED A MINIMUM OF TWICE DAILY, INCLUDING ON HOLIDAYS AND WEEKENDS, UNLESS DEEMED UNNECESSARY DUE TO WEATHER. WATER SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

3. DUST PALLIATIVES MAY BE SUBSTITUTED FOR WATERING UPON THE APPROVAL OF THE ENGINEER. DUST PALLIATIVES SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

STORM WATER POLLUTION PREVENTION:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SIGNED AND CERTIFIED BY A QUALIFIED SSWPP DEVELOPER (QSD). ONCE APPROVED, CONTRACTOR SHALL SUBMIT SWPPP AND NOTICE OF INTENT (NOI) WITH THE CALIFORNIA DEPARTMENT OF WATER QUALITY CONTROL BOARD. THE CONTRACTOR SHALL ADHERE TO THE SWPPP AT ALL TIMES. THE CONTRACTOR SHALL FILE THE ANNUAL REPORT, AND NOTICE OF TERMINATION (NOT) WHEN THE PROJECT IS COMPLETED.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES:

1. ALL STRIPING AND SIGN PANELING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION REVISION 9, DATED JANUARY 8, 2026.

CITY OF TURLOCK STANDARD PLANS

VERTICAL CURB, CURB AND GUTTER, VALLEY GUTTER	C-1
RESIDENTIAL AND COMMERCIAL SIDEWALK	C-3
SIDEWALK OBSTRUCTION TRANSITION	C-4
RESIDENTIAL DRIVEWAY APPROACH	C-5
ALLEY APPROACH	C-7
COMMERCIAL DRIVEWAY APPROACH	C-8
DETECTABLE WARNING SURFACE	C-15
STANDARD MEDIAN NOSE	ST-17
STANDARD MANHOLE	S-3
MANHOLE FRAME AND COVER	S-5
CATCH BASIN NO. 3	SD-3
MONUMENT DETAIL	M-1
LINE VALVE	W-5
WATER VALVE BOX	W-6

CALTRANS STANDARD PLANS

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LEGEND	A10A-A10E
PAVEMENT MARKERS AND TRAFFIC LINES	A20A-A20G
PAVEMENT MARKINGS	A24A-A24H
EXCAVATION AND BACKFILL	A62A
DRIVEWAY DETAILS	A87A
CURB RAMP DETAILS	A88A

**USE LATEST VERSION 2025 OF REVISED STANDARD PLANS PER CALTRANS WEBSITE

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: NOT TO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MORIEGA — No. 41656 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
GENERAL NOTES

Sheet 3 of 256 Sheets

GN-1

LEGEND:

- DETECTABLE WARNING SURFACE
- MINOR CONCRETE (CURB, GUTTER, VALLEY GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (ALLEYWAY AND DRIVEWAY APPROACH)
- HMA MISC AREA (DRIVEWAY APPROACH)
- REMOVE CONCRETE (CURB, GUTTER, VG, AND SIDEWALK)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT
- MINOR CONCRETE (MEDIAN PAVING)
- MINOR CONCRETE (TEXTURE PAVING DWY CONFORM)
- 0.33' DECOMPOSED GRANITE

- GRIND OVERLAY WITH 0.3' GRIND / 0.4' HMA
- RECONSTRUCT WITH 0.4' HMA / 1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- Exist FENCE
- CITY OF TURLOCK RIGHT OF WAY (R/W)
- PARCEL LINES
- FILL
- CUT

- BEGIN/END OF TRAFFIC STRIPE DETAIL
- CHANGE OF TRAFFIC STRIPE DETAIL
- X-X TRAFFIC STRIPE DETAIL NUMBER
- LL LIMIT LINE
- CONTINENTAL CROSSWALK
- STOP "STOP" PAVEMENT MARKING
- POTHOLE LOCATION
- # POTHOLE NUMBER
- STREET LIGHT
- EXIST STREET LIGHT
- EXIST MANHOLE
- EXIST STORM DRAIN INLET
- PROPOSED STORM DRAIN INLET
- EXIST FIRE HYDRANT
- EXIST POWER POLE
- EXIST GUY WIRE
- EXIST UTILITY BOX
- EXIST WATER VALVE
- EXIST SIGN
- PROPOSED SIGN

UTILITY OWNERSHIP ON THIS PROJECT:

GAS	-	PG&E GAS
FIBER OPTIC (UG)	-	CVIN
SEWER	-	CITY OF TURLOCK
WATER	-	CITY OF TURLOCK
JOINT OVERHEAD	-	CHARTER COMMUNICATIONS & TID ELECTRIC
JOINT OVERHEAD	-	AT&T, CHARTER COMMUNICATIONS, AND TID ELECTRIC
STORM DRAIN	-	CITY OF TURLOCK
TELECOMMUNICATIONS (OH)	-	AT&T
ELECTRICAL	-	TID ELECTRICAL
TELECOMMUNICATIONS	-	CHARTER COMMUNICATIONS
TELECOMMUNICATIONS	-	AT&T
ELECTRICAL (TRAFFIC)	-	CITY OF TURLOCK

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
ASC	ASBESTOS CEMENT
AVE	AVENUE
BC	BEGIN CURVE
Beg	BEGIN
BFC	BOTTOM FACE OF CURB
BOC	BACK OF CURB
BOW	BACK OF WALK
CG	CURB AND GUTTER
CL	CENTERLINE
Conc	CONCRETE
CR	CURB RAMP
CST	CITY STANDARD
DWY	DRIVEWAY
DG	DECOMPOSED GRANITE
EC	END CURVE
Elev	ELEVATION
EP	EDGE OF PAVEMENT
Ex	EXISTING
Exist	EXCAVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
GB	GRADE BREAK
GM	GAS MAIN PIPELINE
GS	GAS SERVICE
GV	GATE VALVE
L	LENGTH
Lt	LEFT
Met	METALLIC (IRON, STEEL, COATED)
Mod	MODIFIED
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
Pave	PAVEMENT
PG	PROPOSED GRADE
PRC	POINT OF REVERSING CURVE
Rem	REMOVE
R/W	RIGHT OF WAY
Reconst	RECONSTRUCT
Rt	RIGHT
SAW	SAWCUT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHLD	SHOULDER
SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TFC	TOP FACE OF CURB
Var	VARIES, VARIABLE
VG	VALLEY GUTTER
WM	WATER MAIN
WV	WATER VALVE

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: NOT TO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — JORGE A. MORIEGA — No. C 41554 — exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
GENERAL NOTES

Sheet 4 of 256 Sheets

GN-2

NOTES:

1. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.

2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE AT CONTRACTOR'S COST.

3. CONTRACTOR SHALL PROVIDE THE AGENCY A MINIMUM OF TWO (2) WEEKS NOTICE PRIOR TO COMMENCING ANY WORK THAT COULD DAMAGE OR DESTROY ANY SURVEY MONUMENTS.

4. CONTRACTOR IS TO USE ONE OR MORE OF THE GPS BASE POINTS TO FIRST ESTABLISH THEIR CONTROL FOR THE PROJECT. CONTRACTOR SHALL CHECK SHOTS TO OTHER PROVIDED CONTROL POINTS TO VERIFY HORIZONTAL AND VERTICAL INFORMATION IS ACCURATE.

HORIZONTAL DATUM

HORIZONTAL DATUM IS BASED ON THE CITY OF TURLOCK G.P.S. CONTROL NETWORK SURVEY FILED IN BOOK 20 OF SURVEYS AT PAGE 56, STANISLAUS COUNTY RECORDS. SAID SURVEY IS BASED ON THE 1983 NORTH AMERICAN DATUM AND ADJUSTMENT AS SHOWN ON THE FACE OF SAID SURVEY. POINTS H12 AND L9 AS SHOWN ON THE SURVEY WERE USED AS THE BASE CONTROL FOR THIS PROJECT.

COORDINATE SYSTEM

THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE III.

VERTICAL DATUM

ELEVATIONS BASED ON THE CITY OF TURLOCK BENCHMARK SYSTEM.

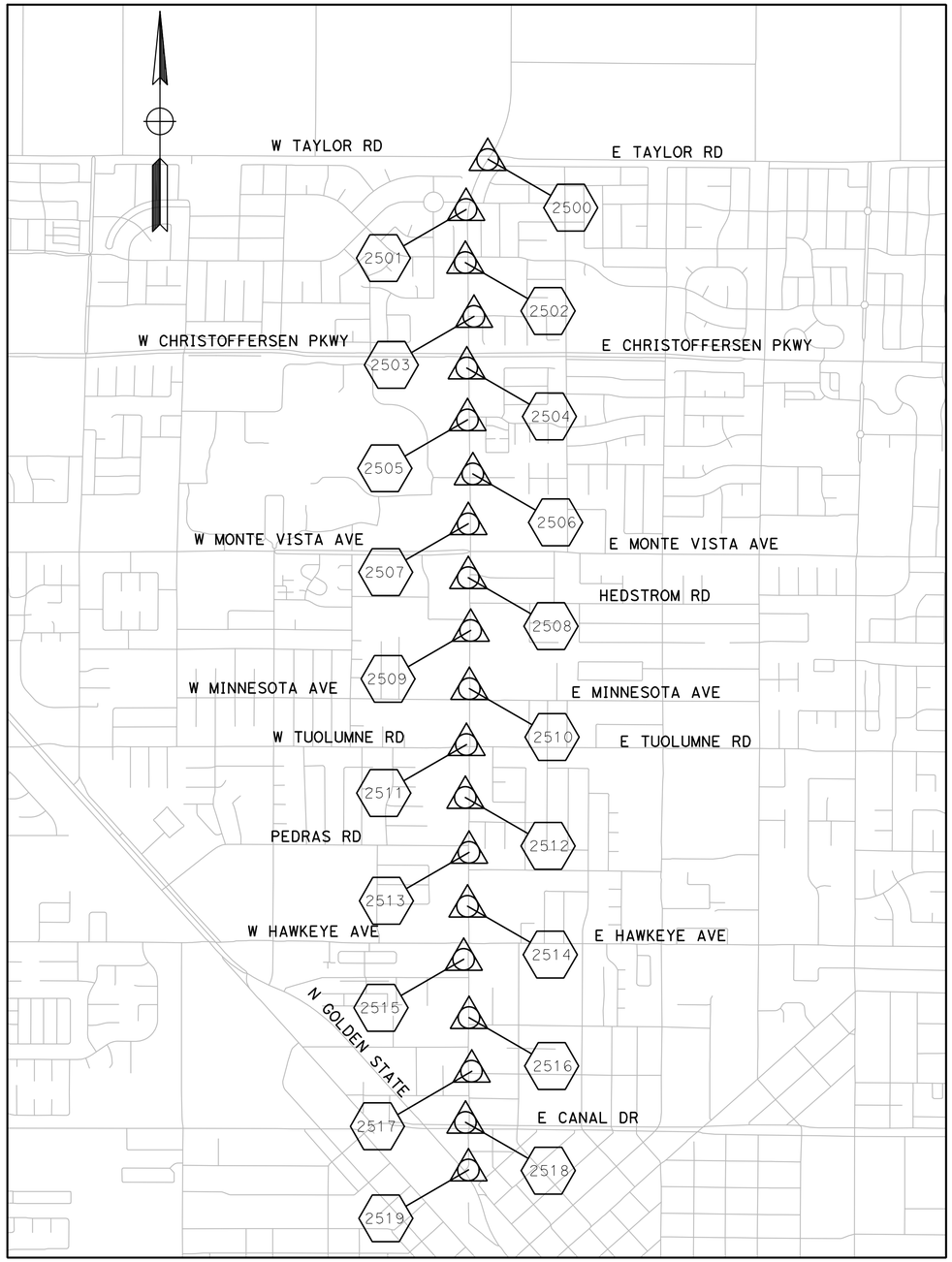
LEGEND:

△ CONTROL POINT LOCATION ⟨No.⟩ CONTROL POINT NUMBER

PROJECT VERTICAL BENCHMARKS		
BENCHMARK ID	ELEVATION	DESCRIPTION
13-1-3	110.059	FOUND BRASS PLUG NW CORNER ON EAST MARSHALL AT DAUENBERGER ROAD
14-210	101.168	FOUND BRASS PLUG NE CORNER ON GEER AT GOLDEN STATE BOULEVARD
22-4-2	98.282	FOUND BRASS PLUG SW CORNER ON ORANGE AT HIGH STREET
24-3-1	105.563	FOUND BRASS PLUG SE CORNER ON SOUTH BERKELEY AT EAST AVENUE

GPS BASE POINT TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2004921.432	6464890.307	105.949	SVRB-SET 5\8IN
1100	2013970.675	6460372.077	107.404	SVRB-FND 5\8IN
1101	2011319.466	6456042.177	101.429	SVRB-FND 5\8IN

SURVEY CONTROL TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
2500.0000	2018038.536	6460719.948	112.275	SVCP NW COR STOP BAR
2501.0000	2017358.041	6460426.105	112.230	SVCP ARROW TIP
2502.0000	2016637.218	6460415.718	109.359	SVCP ARROW TIP
2503.0000	2015903.793	6460534.171	108.450	SVCP SW COR STOP BAR
2504.0000	2015201.276	6460434.860	108.803	SVCP ARROW TIP
2505.0000	2014495.201	6460444.797	108.107	SVCP SE INSIDE COR PARKING +
2506.0000	2013758.496	6460518.083	106.912	SVCP SW COR HELMET
2507.0000	2013080.372	6460456.500	107.261	SVCP SE INSIDE COR PARKING +
2508.0000	2012345.971	6460455.737	106.393	SVCP SW COR OF 5
2509.0000	2011627.245	6460489.012	106.501	SVCP SW COR WS
2510.0000	2010834.928	6460470.848	105.765	SVCP NE COR WS
2511.0000	2010073.397	6460430.185	103.965	SVCP SE INSIDE COR XWALK STRIPE
2512.0000	2009353.420	6460416.580	103.537	SVCP SOUTH MOST ARROW TIP
2513.0000	2008605.696	6460466.407	105.278	SVCP NE COR XWALK STRIPE
2514.0000	2007872.439	6460446.180	105.613	SVCP SE WS E BOUND
2515.0000	2007149.169	6460393.214	103.063	SVCP ARROW TIP
2516.0000	2006355.974	6460464.836	103.069	SVRB - D10 5/8" RBR IN PVC WELL WITH WATER VALVE COVER
2517.0000	2005625.991	6460502.255	100.925	SVCP NE COR XWALK STRIPE
2518.0000	2004930.450	6460418.213	102.465	SVCP SW XWALK STRIPE
2519.0000	2004280.335	6460458.623	101.401	SVCP MAG NW COR STRIPE



SURVEY POINTS MAP

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=1000'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
1000 0 1000 2000

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ENRIGA — No. 61536 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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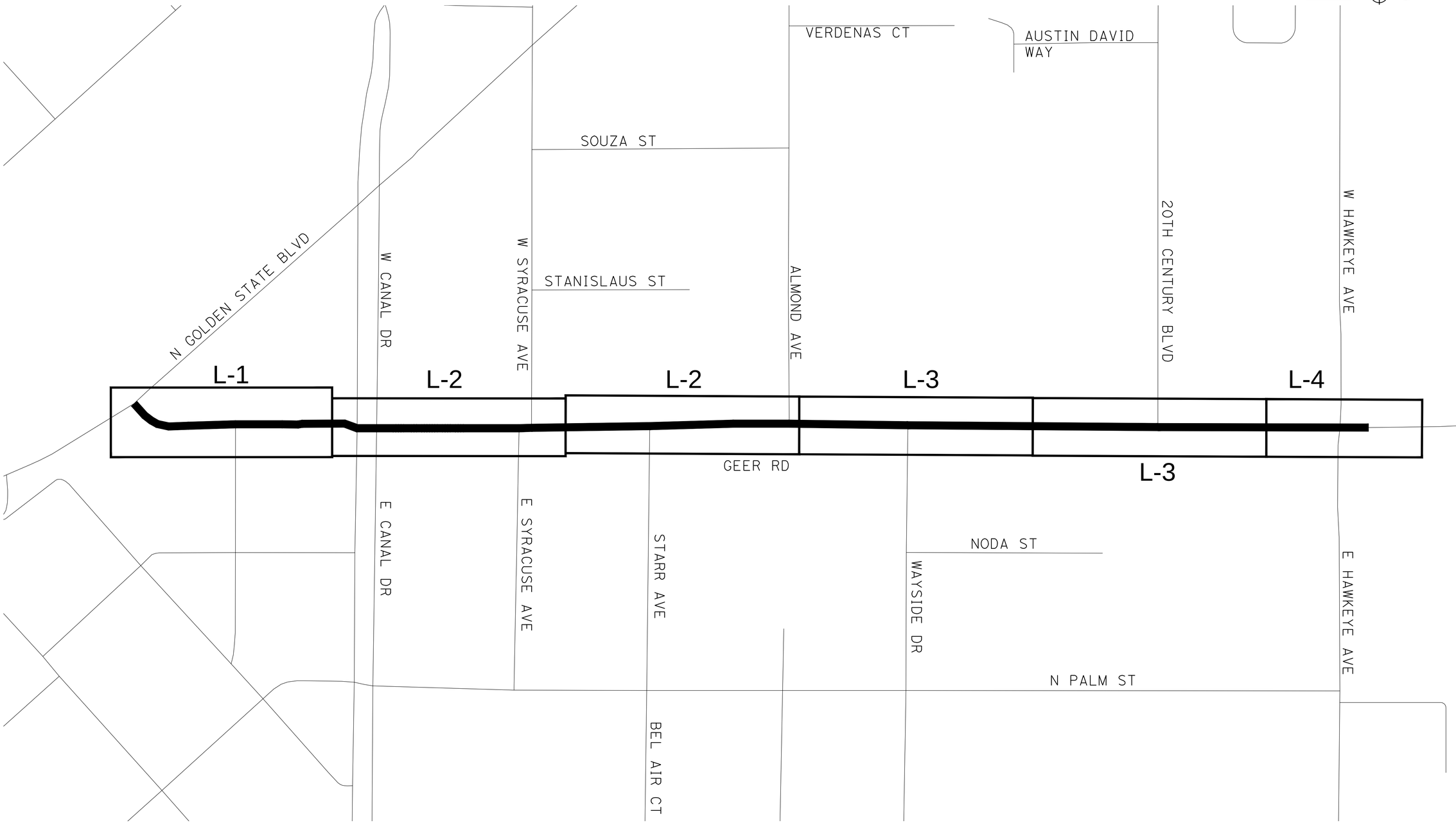
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
PROJECT CONTROL

PC-1



DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=125'
DATE: 6/08/2026
JOB NO.: 23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE
125 0 125 250

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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CITY OF TURLOCK — INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
KEY MAP

Sheet 6 of 256 Sheets

K-1

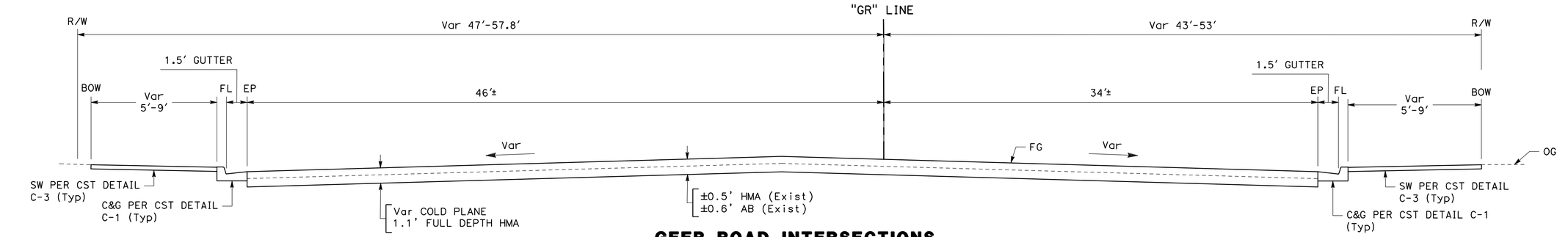
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA SEE RIGHT OF WAY RECORD MAPS AT CITY OF TURLOCK OFFICE.
2. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. SUBGRADE CROSS SLOPE TO BE THE SAME AS TYPICAL SURFACE CROSS SLOPE UNLESS OTHERWISE NOTED.
4. FOR LOCATIONS OF PAVEMENT REHABILITATION, SEE LAYOUT SHEETS.
5. CONSTRUCT 6" CURB AND GUTTER PER CITY STD C-1, AND DRIVE-OVER CURB AND GUTTER PER DETAILS ON CD-3, FOR LOCATIONS AND LIMITS OF CURB AND GUTTER REPLACEMENT; SEE LAYOUT SHEETS.
6. CONSTRUCT CONCRETE SIDEWALK PER CITY STD C-3. FOR LOCATIONS AND LIMITS OF SIDEWALK REPLACEMENT, SEE LAYOUT SHEETS.
7. PAVEMENT SHALL BE REPLACED AS SHOWN. ON LAYOUTS CROSS SLOPE OF PAVEMENT SHALL MAINTAIN POSITIVE DRAINAGE. THERE SHALL BE NO LOW POINTS COLLECTING SURFACE RUNOFF.
8. EXISTING CURB, GUTTER, SIDEWALK, AND DRIVEWAY SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON THE PLANS.
9. DIMENSIONS SHOWN IN TYPICAL SECTIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS WITH THE ENGINEER IN THE FIELD.
10. REMOVAL OF EXISTING PAVEMENT INCLUDES ASPHALT, AGGREGATE BASE, AND SUB BASE AS NECESSARY TO ACHIEVE REQUIRED REMOVAL DEPTH.
11. WHERE THE ENTIRE EXISTING ASPHALT LAYER IS REMOVED, COMPACT AND PREPARE BASE/SUBGRADE PRIOR TO PLACING HMA.
12. SEE PLANS FOR PROPOSED PAVEMENT TREATMENT WITHIN INTERSECTION GRADING LIMITS, WHERE APPLICABLE.
13. WHERE NECESSARY, EMBANKMENT SLOPES (4:1 OR FLATTER) SHALL BE USED TO CONFORM TO EXISTING GROUND ELEVATIONS BEYOND THE PROPOSED BACK OF WALK OR BACK OF CURB.
14. AS SHOWN ON THE DM SHEETS AND THE TYPICAL CURB, GUTTER, AND SIDEWALK REMOVAL DETAIL (DM-1), PROVIDE A 2-FOOT-WIDE SAWCUT STRIP ADJACENT TO THE PROPOSED CURB AND GUTTER, MEASURED FROM THE PROPOSED GUTTER LIP (NOT THE EXISTING GUTTER LIP). FOR DETAILS REGARDING SAWCUTS AT MEDIANS, SEE CONSTRUCTION DETAIL SHEETS.
15. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
16. EXISTING PAVEMENT DEPTHS ARE AVERAGES BASED ON CORING PAVEMENT RESULTS. REFER TO THE GEOTECHNICAL REPORT FOR EXACT EXISTING PAVEMENT SECTION DEPTHS ALONG THE CORRIDOR.

DESIGN DESIGNATION:

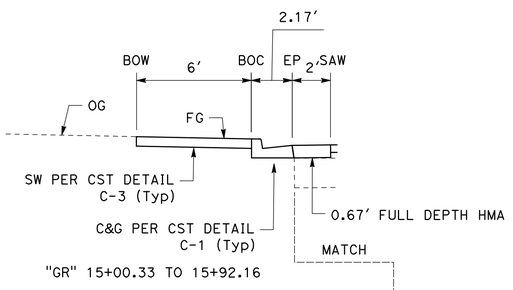
R-VALUE = 50 - GEER RD: GOLDEN STATE BLVD TO CANAL DR
41 - GEER RD: CANAL DR TO HAWKEYE AVE

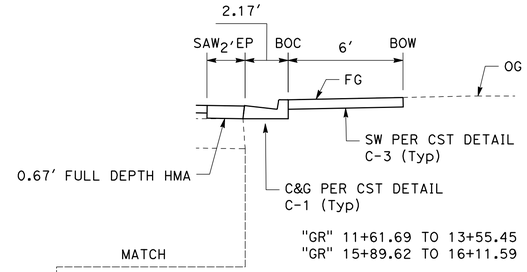
TI-VALUE = 10 - GEER RD
11 - CANAL DR & HAWKEYE AVE INTERSECTIONS

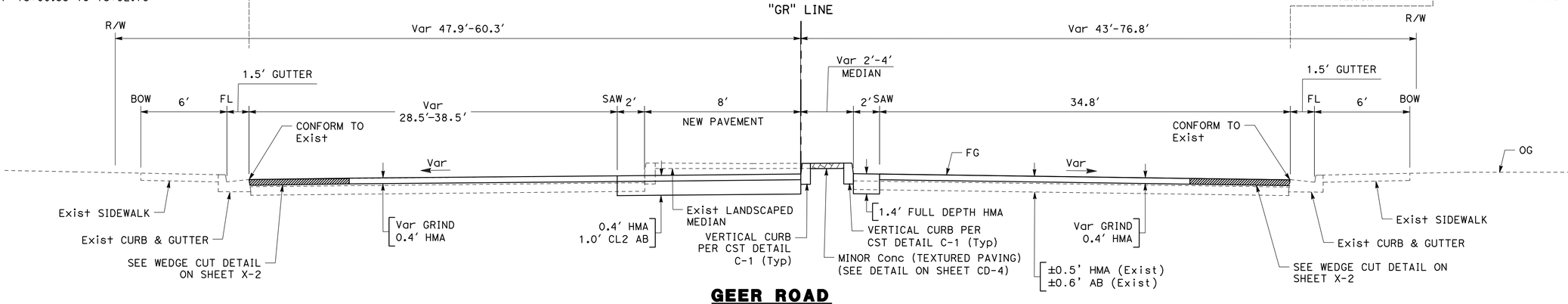


GEER ROAD INTERSECTIONS

"GR" 16+58.96 TO 18+22.63
"GR" 41+69.09 TO 43+12.72







GEER ROAD
N GOLDEN STATE BLVD TO CANAL DR

"GR" 11+51.51 TO 16+58.96

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER THOMAS A. RORIEGA No. 61558 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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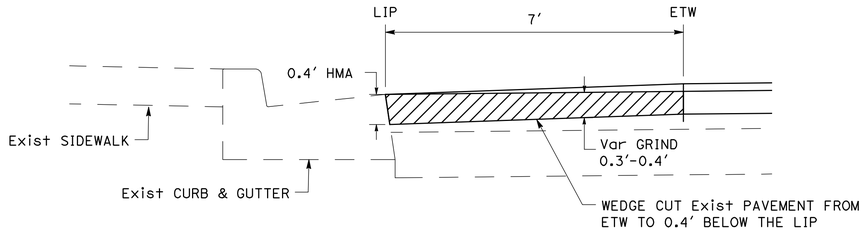
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
TYPICAL SECTIONS

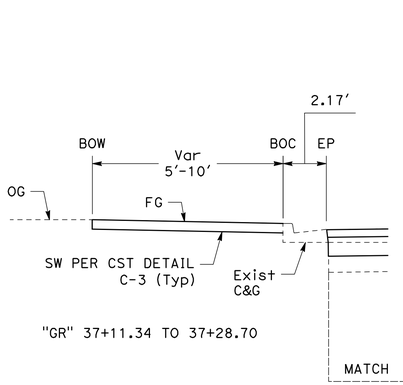
Sheet 7 of 256 Sheets

X-1

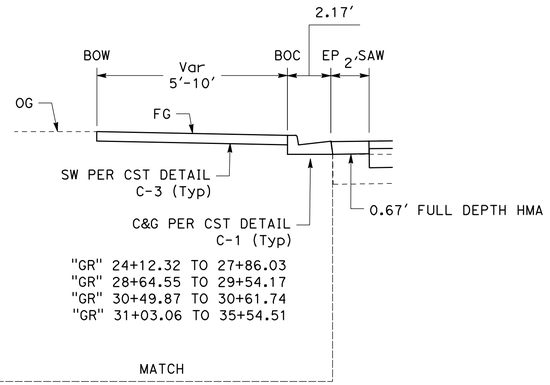


WEDGE CUT DETAIL

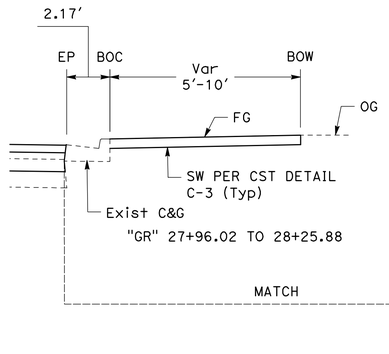
NOT TO SCALE



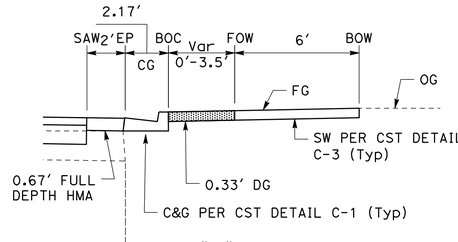
"GR" 37+11.34 TO 37+28.70



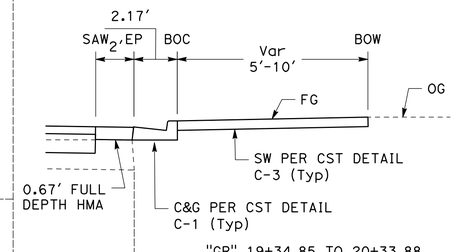
"GR" 24+12.32 TO 27+86.03
"GR" 28+64.55 TO 29+54.17
"GR" 30+49.87 TO 30+61.74
"GR" 31+03.06 TO 35+54.51



"GR" 27+96.02 TO 28+25.88



"GR" 20+33.88 TO 20+97.76



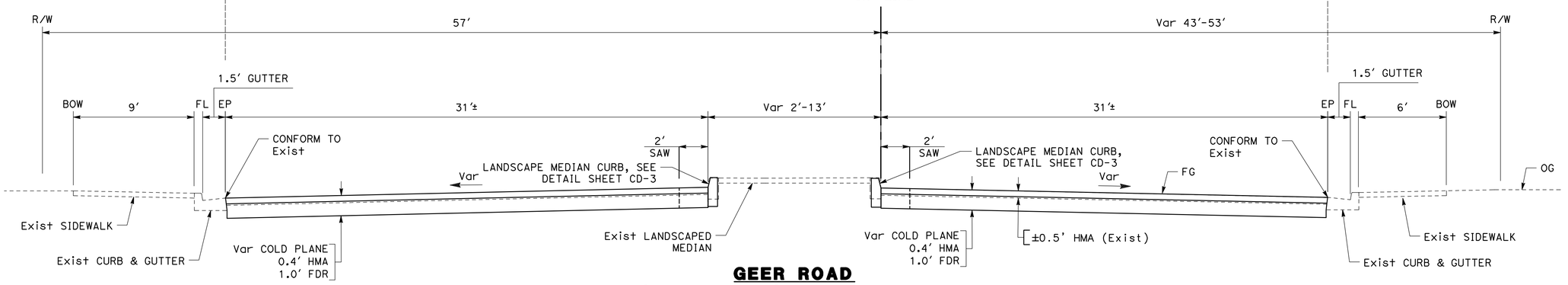
"GR" 19+34.85 TO 20+33.88
"GR" 25+07.84 TO 26+41.39
"GR" 33+73.10 TO 37+47.17

MATCH

MATCH

MATCH

MATCH



GEER ROAD
CANAL DR TO HAWKEYE AVE

"GR" 18+22.63 TO 41+69.09

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=5'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
JORGE A. ORTEGA
No. 61554
6/30/27
CIVIL
STATE OF CALIFORNIA

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DEPARTMENT
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
TYPICAL SECTIONS

Sheet 8 of 256 Sheets

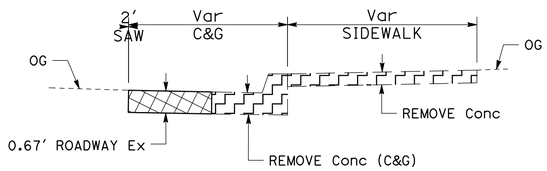
X-2

LEGEND:

- ROADWAY EXCAVATION
- REMOVE CONCRETE (SIDEWALK, MEDIAN, AND VALLEY GUTTER)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT (Var DEPTH)
- REMOVE CONCRETE (CURB, CURB AND GUTTER)
- REMOVE FENCE
- REMOVE TREE

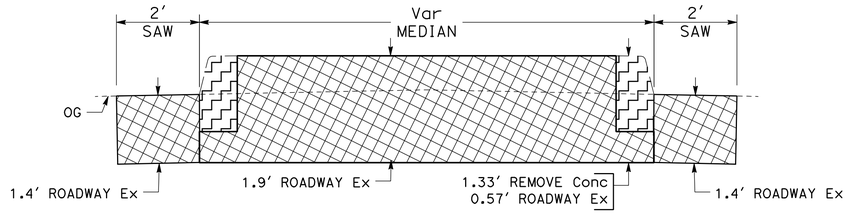
NOTES:

1. CLEARING AND GRUBBING AS SHOWN IS APPROXIMATE.
2. SEE LAYOUT SHEETS FOR COLD PLANE DEPTH LIMITS.
3. CONTRACTOR TO NOTIFY PROPERTY OWNERS IN ADVANCE OF WORK TO SALVAGE EXISTING LANDSCAPING.
4. ROADWAY EXCAVATION FOR INTERSECTIONS SHALL BE TO A DEPTH OF 1.1 FEET.



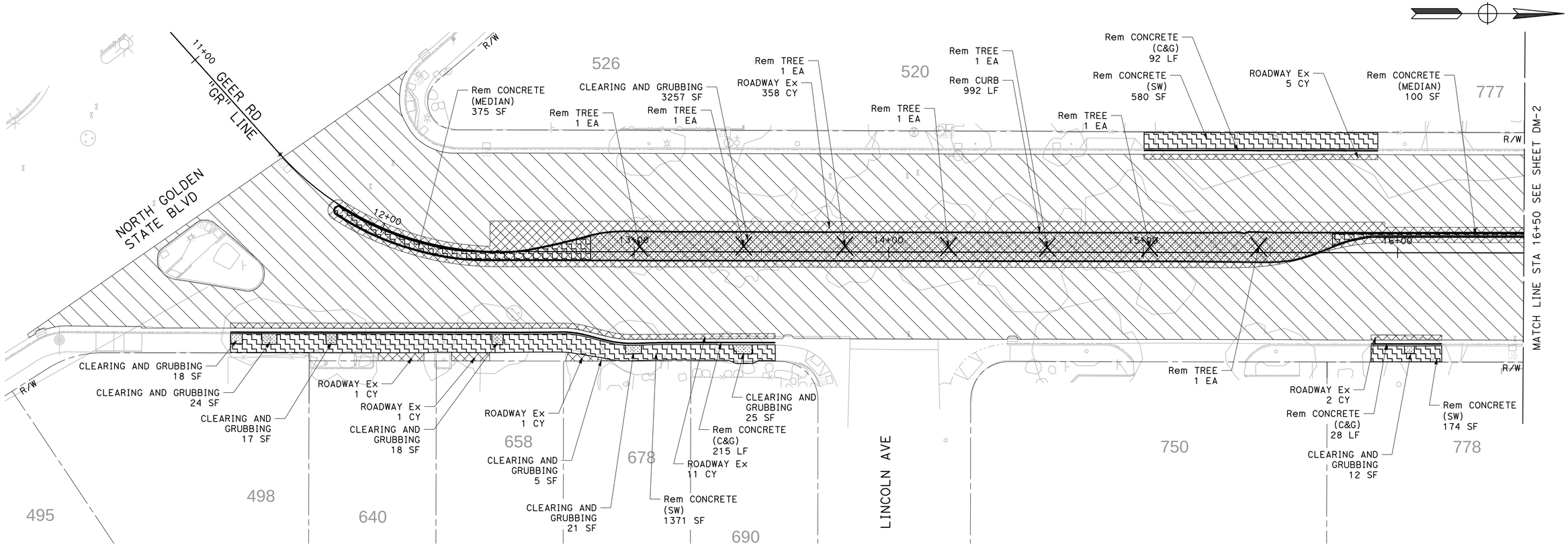
SIDEWALK DEMOLITION AND ROADWAY EXCAVATION DETAIL

NO SCALE



LANDSCAPED MEDIAN DEMOLITION AND ROADWAY EXCAVATION DETAIL

NO SCALE



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ARRIEGA — No. 84139 — exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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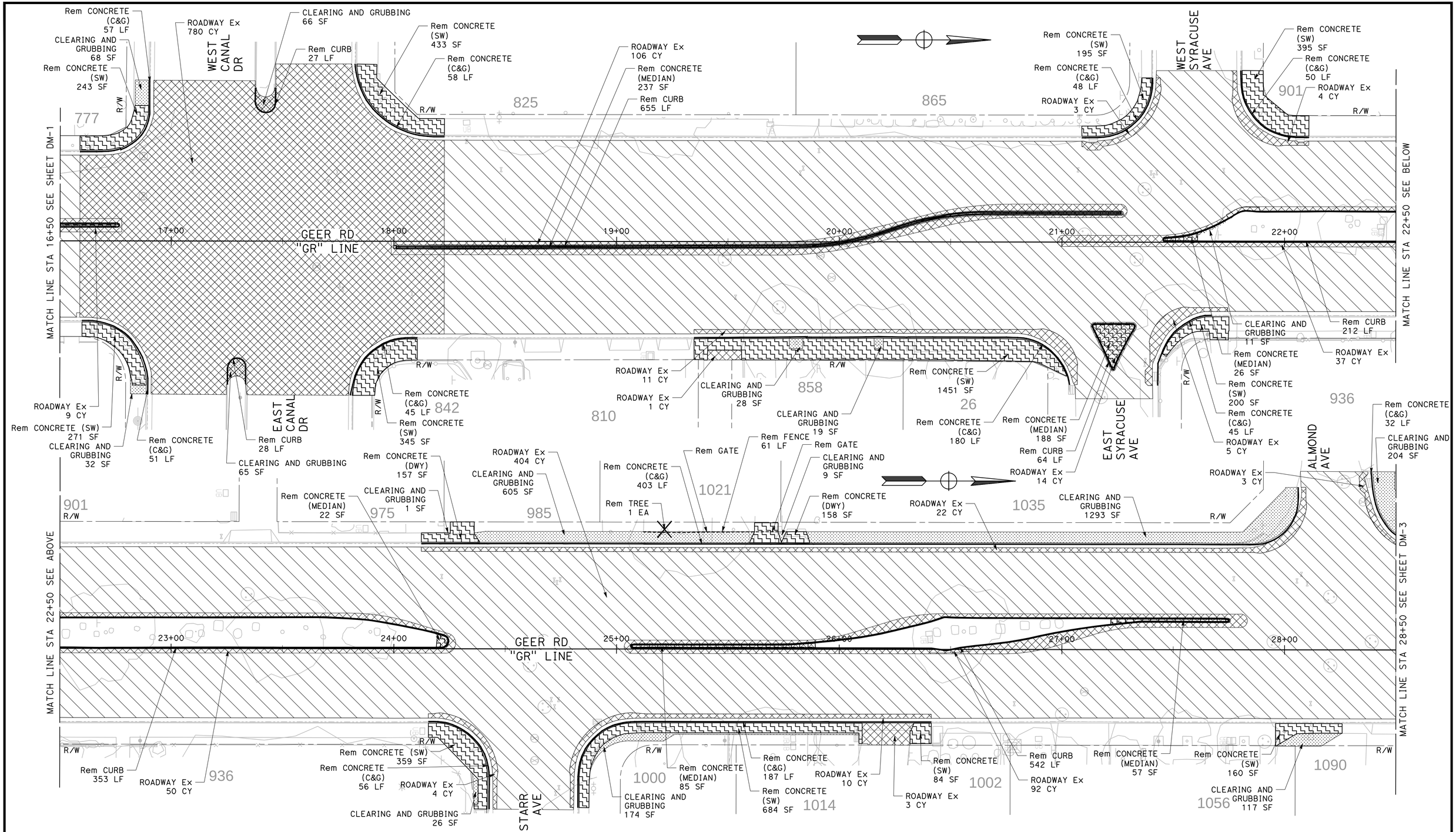
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DEMOLITION PLANS

Sheet 9 of 256 Sheets

DM-1



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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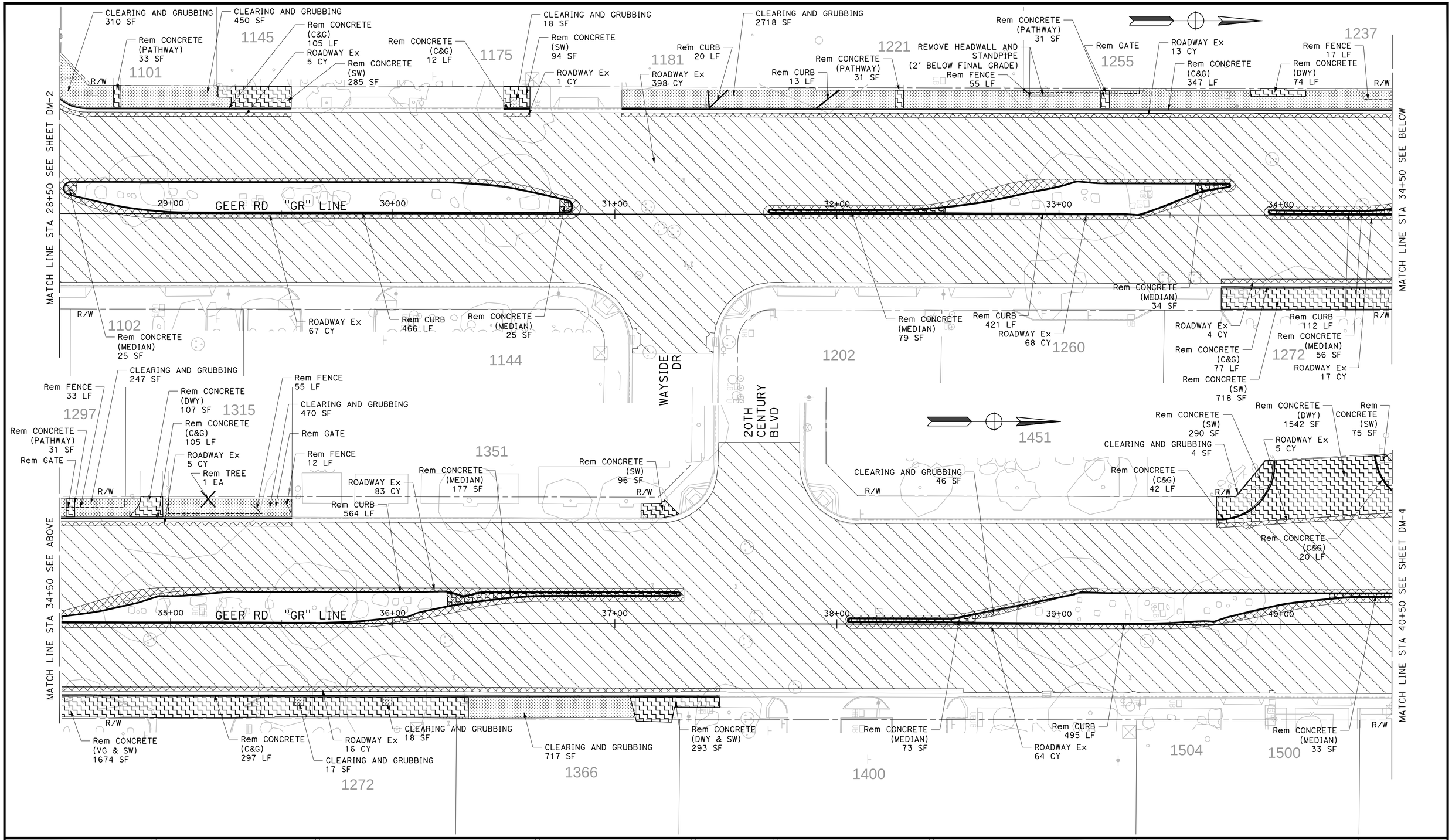
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DEMOLITION PLANS



DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

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REGISTERED PROFESSIONAL ENGINEER JORGE A. ARRIEGA No. 85581 CIVIL STATE OF CALIFORNIA
Exp. 6/30/27

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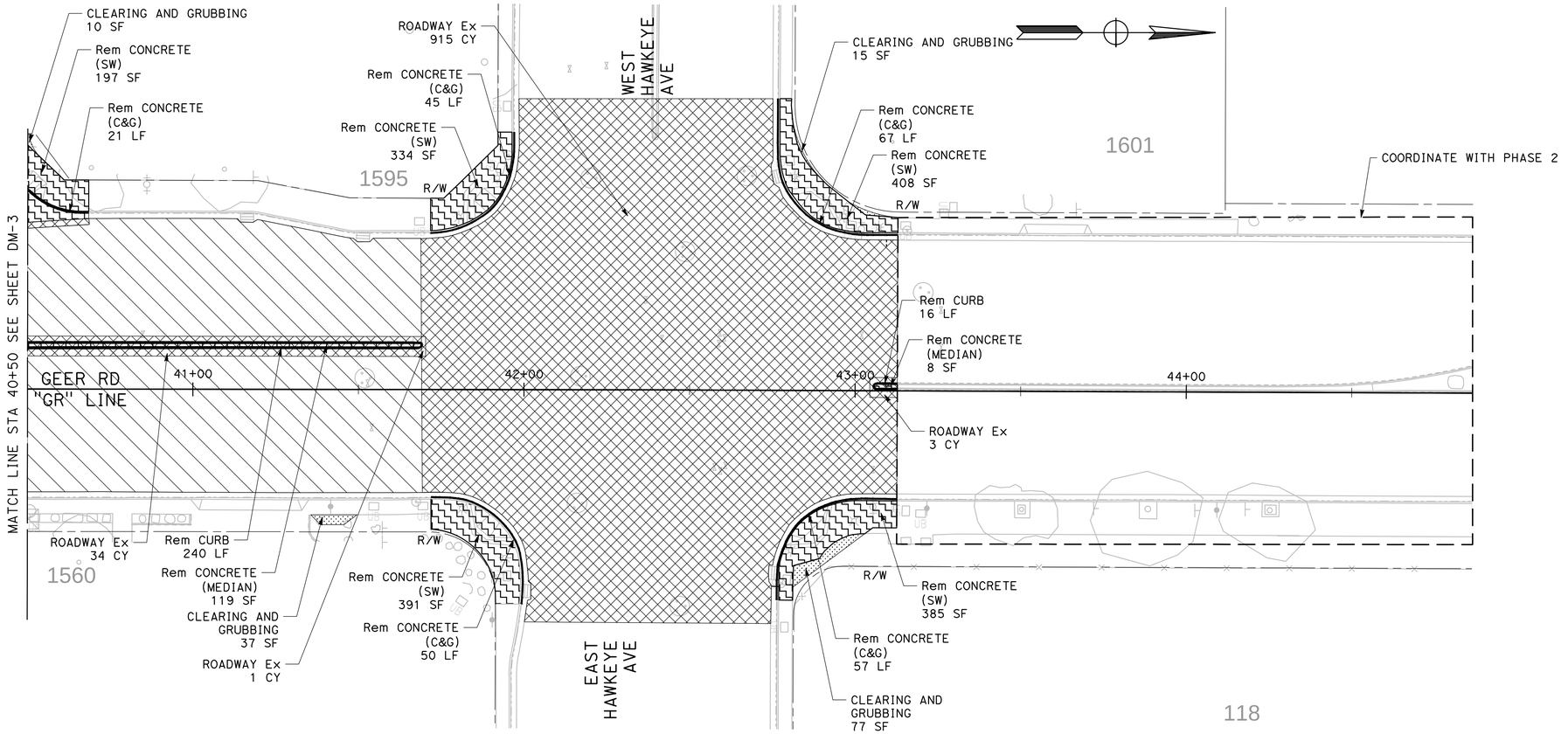
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
DEMOLITION PLANS

Sheet 11 of 256 Sheets

DM-3



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
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REGISTERED PROFESSIONAL ENGINEER
EDGAR A. MORIEGA
No. C-11554
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
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CITY OF TURLOCK
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DEMOLITION PLANS

Sheet 12 of 256 Sheets

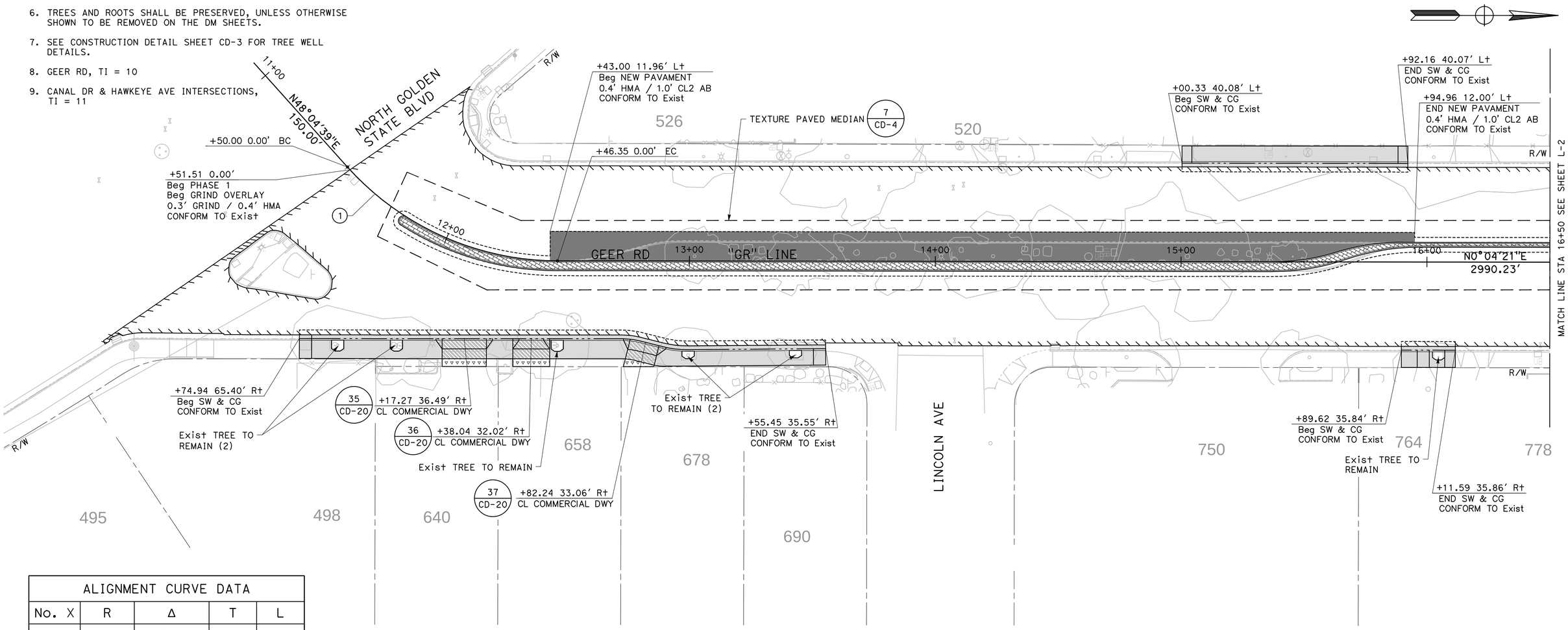
DM-4

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. ALL BUS SHELTERS AND ACCOMPANYING FACILITIES SHALL BE RESET IN PLACE AT EXISTING BUS STOP LOCATIONS WHERE NEW CONCRETE WORK IS PERFORMED.
3. FOR ACCURATE RIGHT OF WAY INFORMATION, CONTACT ENGINEERING AT CITY OF TURLOCK.
4. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
5. WHERE EXISTING MEDIAN CURB EXTENDS BEYOND THE LIMITS OF PROPOSED MEDIAN CURB, A MINIMUM 1-FOOT SAWCUT MEASURED FROM THE EDGE OF THE EXISTING CURB WAS ASSUMED TO BE REQUIRED.
6. TREES AND ROOTS SHALL BE PRESERVED, UNLESS OTHERWISE SHOWN TO BE REMOVED ON THE DM SHEETS.
7. SEE CONSTRUCTION DETAIL SHEET CD-3 FOR TREE WELL DETAILS.
8. GEER RD, TI = 10
9. CANAL DR & HAWKEYE AVE INTERSECTIONS, TI = 11

LEGEND:

- NEW PAVEMENT 0.4' HMA (TYPE A), 1.0' CL2 AB
- MINOR CONCRETE (CURB, GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (ALLEYWAY AND DWY APPROACH)
- MINOR CONCRETE (DWY CONFORM)
- HMA MISC AREA (DWY CONFORM)
- DETECTABLE WARNING SURFACE
- MINOR CONCRETE (TEXTURE PAVING)
- DG, 0.33'
- MINOR CONCRETE (TEXTURE PAVING DWY CONFORM)
- GRIND OVERLAY WITH Var GRIND / 0.40' HMA
- RECONSTRUCT WITH 0.4' HMA / 1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- (X) CURVE DATA
- △ ANGLE POINT
- ○ BC/EC/PRC
- △ MONUMENT



ALIGNMENT CURVE DATA

No. X	R	Δ	T	L
1	115.00'	048°00'18"	51.21'	96.35'

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. ADRIEGA No. 81458 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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SUITE 150
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
LAYOUTS

Sheet 13 of 256 Sheets

L-1

+58.96 40.03' L+
Beg SW & CG
CONFORM TO Exist

777

+90.55 72.20' L+
END SW & CG
CONFORM TO Exist

+37.74 68.78' L+
Beg VERTICAL CURB
CONFORM TO Exist

BLENDED TRANSITION CURB RAMP
15 / CD-8

+46.92 68.79' L+
END VERTICAL CURB
CONFORM TO Exist

+82.48 79.53' L+
Beg SW & CG
CONFORM TO Exist

CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A
16 / CD-8

+22.63 46.92' L+
END SW & CG
CONFORM TO Exist

825

8 / CD-4 TEXTURE PAVED MEDIAN

+40.44 73.80' L+
END SW & CG
CONFORM TO Exist

19 / CD-10 CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A

865

+08.92 46.87' L+
Beg SW & CG
CONFORM TO Exist

+80.15 77.13' L+
Beg SW & CG
CONFORM TO Exist

CASE A CURB RAMP PER CST DETAIL C-10
20 / CD-10

901

+10.83 47.10' L+
END SW & CG
CONFORM TO Exist

WEST CANAL DR

WEST SYRACUSE AVE

R/W

MATCH LINE STA 16+50 SEE SHEET L-1

Exist LANDSCAPE TO REMAIN

+22.63 0.00'
END Pave Reconst
1.1' FULL DEPTH HMA
Beg Pave Reconst
0.4' HMA / 1.0' FDR

17+00 18+00 19+00 20+00 21+00 22+00

GEER RD
"GR" LINE

N0°04'21"E
2990.23'

+58.96 0.00'
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
Beg Pave Reconst
1.1' FULL DEPTH HMA

MATCH LINE STA 22+50 SEE BELOW

+33.88 47.00' R+
Beg DG

+97.76 46.88' R+
END DG

+66.51 32.85' R+
END SW & CG
CONFORM TO Exist

+66.51 43.24' R+
END DG

936

CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A
22 / CD-11

+48.67 48.67' R+
Beg SW

+43.70 56.25' R+
Beg DG
CONFORM TO Exist

+43.04 64.35' R+
Beg CG
CONFORM TO Exist

+92.15 53.44' R+
MONUMENT PRESERVATION

7 / CD-4 TEXTURE PAVED MEDIAN

+59.96 35.79' R+
Beg SW & CG
CONFORM TO Exist

778

+89.52 68.77' R+
END SW & CG
CONFORM TO Exist

+33.97 64.08' R+
END VERTICAL CURB
CONFORM TO Exist

+24.82 64.36' R+
Beg VERTICAL CURB
CONFORM TO Exist

EAST CANAL DR

+10.55 43.34' R+
END SW & CG
CONFORM TO Exist

842

BLENDED TRANSITION CURB RAMP
18 / CD-9

+81.23 69.23' R+
Beg SW & CG
CONFORM TO Exist

810

+34.85 43.14' R+
Beg SW & CG
CONFORM TO Exist

38 / CD-21 +48.52 42.99' R+ CL ALLEYWAY

858

21 / CD-11 Exist TREE TO REMAIN (2)

CASE F CURB RAMP PER CALTRANS STANDARD PLANS A88A

26

+02.59 52.87' R+
END SW
CONFORM TO Exist

+03.48 64.07' R+
END CG
CONFORM TO Exist

Exist DI TO REMAIN

EAST SYRACUSE AVE

+62.07 57.00' L+
END CL FENCE
Beg CL GATE
CONFORM TO Exist

+73.72 57.00' L+
END CL GATE
CONFORM TO Exist

+68.26 47.26' L+
CL RESIDENTIAL DWY

40 / CD-22

9 / CD-5 LANDSCAPE / TEXTURE PAVED MEDIAN

17 / CD-9 CURB RAMP PER CALTRANS STANDARD PLANS A88A

39 / CD-21 +30.67 47.24' L+ CL RESIDENTIAL DWY

23 / CD-12 CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A

+38.88 57.00' L+
END CL FENCE
Beg CL GATE

+42.86 57.00' L+
END CL GATE
Beg CL FENCE

+93.60 57.00' L+
Beg CL FENCE
CONFORM TO Exist

1021

+12.32 47.22' L+
Beg SW & CG
CONFORM TO Exist

975

985

1035

26 / CD-14 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

+06.02 72.48' L+
END SW & CG
CONFORM TO Exist

+38.77 80.11' L+
Beg SW & CG
CONFORM TO Exist

ALMOND AVE

CURB AND GUTTER TRANSITION (5')
1 / CD-3

+82.52 47.21' L+
Beg DRIVE-OVER CURB

+92.52 47.20' L+
END DRIVE-OVER CURB

+00.88 47.19' L+
Beg DRIVE-OVER CURB

+15.88 47.27' L+
END DRIVE-OVER CURB

27 / CD-14 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

MATCH LINE STA 22+50 SEE ABOVE

Exist LANDSCAPE TO REMAIN

GEER RD
"GR" LINE

23+00 24+00 25+00 26+00 27+00 28+00

N0°04'21"E
2990.23'

MATCH LINE STA 28+50 SEE SHEET L-3

+15.56 32.71' R+
Beg SW & CG
CONFORM TO Exist

936

+42.83 71.99' R+
END SW & CG
CONFORM TO Exist

9 / CD-5 LANDSCAPE / TEXTURE PAVED MEDIAN

23 / CD-12 CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A

STARR AVE

CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A
25 / CD-13

+82.75 71.27' R+
Beg SW & CG
CONFORM TO Exist

1000

41 / CD-22 +22.38 33.31' R+ CL COMMERCIAL DWY

1014

+41.39 32.59' R+
END SW & CG
CONFORM TO Exist

1002

LANDSCAPE / TEXTURE PAVED MEDIAN

10 / CD-5

1056

+96.02 33.11' R+
Beg SW
CONFORM TO Exist

1090

+25.88 33.11' R+
END SW
CONFORM TO Exist

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER — JONATHAN A. MORIEGA — No. C 41656 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
LAYOUTS

Sheet 14 of 256 Sheets

L - 2

CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A — 27 CD-14

+61.67 47.34′ Lt
END SW & CG
CONFORM TO Exist

Exist TREE TO REMAIN

+54.18 47.31′ Lt
END SW & CG
CONFORM TO Exist

+49.87 47.31′ Lt
Beg SW & CG
CONFORM TO Exist

+03.06 47.33′ Lt
Beg SW & CG
CONFORM TO Exist

+84.27 47.39′ Lt
CL RESIDENTIAL DWY — 42 CD-23

+22.57 57.00′ Lt
END WOOD GATE
Beg Reconst WOOD FENCE
CONFORM TO Exist

+83.85 57.00′ Lt
Beg Reconst 4′ WOOD FENCE
CONFORM TO Exist

1 CD-3 CURB AND GUTTER TRANSITION (5′)

44 CD-24 +96.44 47.27′ Lt
CL RESIDENTIAL DWY

+29.52 47.25′ Lt
CL RESIDENTIAL DWY — 45 CD-24

+36.08 57.00′ Lt
END Reconst 4′ WOOD FENCE
CONFORM TO Exist

R/W

MATCH LINE STA 28+50 SEE SHEET L-2

Exist LANDSCAPE TO REMAIN

+57.72 47.30′ Lt
Beg DRIVE-OVER CURB

+69.72 47.30′ Lt
END DRIVE-OVER CURB

+18.77 57.00′ Lt
END Reconst WOOD FENCE
Beg WOOD GATE
CONFORM TO Exist

+43.08 47.29′ Lt
CL RESIDENTIAL DWY — 43 CD-23

+36.89 57.00′ Lt
Beg Reconst 4′ WOOD FENCE
CONFORM TO Exist

29+00 GEER RD "GR" LINE 30+00 31+00 N0°04′21"E 2990.23′ 32+00 33+00 34+00

MATCH LINE STA 34+50 SEE BELOW

Exist LANDSCAPE TO REMAIN

Exist TREE TO REMAIN

WAYSIDE DR

LANDSCAPE / TEXTURE PAVED MEDIAN — 11 CD-6

LANDSCAPE / TEXTURE PAVED MEDIAN — 12 CD-6

+73.10 32.41′ Rt
Beg SW & CG
CONFORM TO Exist

13 CD-7 LANDSCAPE / TEXTURE PAVED MEDIAN

+56.71 57.00′ Lt
END WOOD GATE
Beg Reconst 4′ WOOD FENCE
CONFORM TO Exist

+52.91 57.00′ Lt
END Reconst WOOD FENCE
Beg WOOD GATE
CONFORM TO Exist

+78.97 57.00′ Lt
END Reconst 4′ WOOD FENCE
CONFORM TO Exist

+91.43 47.21′ Lt
CL RESIDENTIAL DWY — 46 CD-24

+98.99 57.00′ Lt
Beg 4′ CHAIN LINK FENCE
CONFORM TO Exist

+42.22 57.00′ Lt
END 4′ CHAIN LINK FENCE
Beg CHAIN LINK GATE
CONFORM TO Exist

+49.52 47.25′ Lt
END DRIVE-OVER CURB

+54.22 57.00′ Lt
END CHAIN LINK GATE
CONFORM TO Exist

+54.51 47.25′ Lt
END SW & CG
CONFORM TO Exist

+39.52 47.24′ Lt
Beg DRIVE-OVER CURB

CURB AND GUTTER TRANSITION (5′) — 1 CD-3

+28.70 49.55′ Lt
END SW
CONFORM TO Exist

+11.74 47.03′ Lt
Beg SW
CONFORM TO Exist

20TH CENTURY BLVD

+97.12 73.33′ Lt
END SW & CG
END TEXTURED PAVEMENT
CONFORM TO Exist

+97.15 67.46′ Lt
Beg TEXTURED PAVEMENT

+41.90 76.02′ Lt
Beg SW & CG
Beg TEXTURED PAVEMENT
CONFORM TO Exist

+43.24 67.94′ Lt
END TEXTURED PAVEMENT

30 CD-17 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

+70.95 47.04′ Lt
Beg SW & CG
CONFORM TO Exist

MATCH LINE STA 34+50 SEE ABOVE

Exist LANDSCAPE TO REMAIN

35+00 GEER RD "GR" LINE 36+00 37+00 N0°04′21"E 2990.23′ 38+00 39+00 40+00

30 CD-17 +14.56 48.43′ Lt
CL COMMERCIAL DWY

30 CD-17 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

MATCH LINE STA 40+50 SEE SHEET L-4

Exist TREE TO REMAIN

+09.41 30.65′ Rt
CL COMMERCIAL DWY — 28 CD-15

1 CD-3 CURB AND GUTTER TRANSITION (5′)

Exist TREE TO REMAIN (2)

+49.37 32.24′ Rt
END DRIVE-OVER CURB

+39.37 32.20′ Rt
Beg DRIVE-OVER CURB

+47.17 32.61′ Rt
END SW & CG
CONFORM TO Exist

Exist LANDSCAPE TO REMAIN

28 CD-15 CASE G CURB RAMP PER CALTRANS STANDARD PLANS A88A

+89.33 42.52′ Rt
END SW & CG
CONFORM TO Exist

LANDSCAPE / TEXTURE PAVED MEDIAN — 13 CD-7

+28.91 42.44′ Rt
Beg SW & CG
CONFORM TO Exist

CASE G CURB RAMP PER CALTRANS STANDARD PLANS A88A — 28 CD-15

+00.21 32.43′ Rt
Beg DRIVE-OVER CURB

+15.21 32.49′ Rt
END DRIVE-OVER CURB

CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A — 29 CD-16

LANDSCAPE / TEXTURE PAVED MEDIAN — 14 CD-7

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20′
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER — EDWARD A. MORIEGA — No. 41655 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

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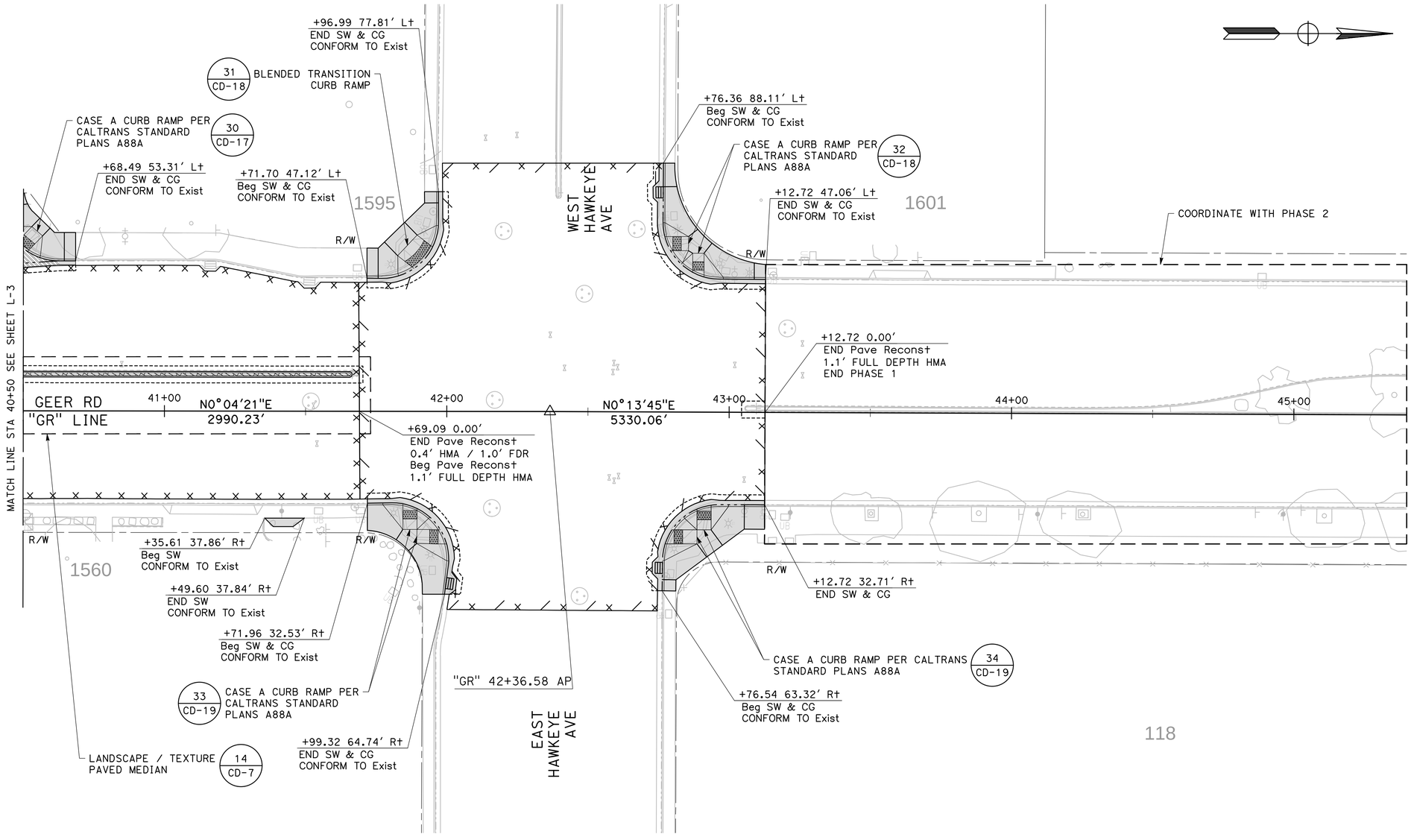
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
LAYOUTS

Sheet 15 of 256 Sheets

L-3



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SCALE
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REGISTERED PROFESSIONAL ENGINEER
EDUARDO A. TORIEGA
No. C 41654
Exp 6/30/27
CIVIL
STATE OF CALIFORNIA

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INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
LAYOUTS

Sheet 16 of 256 Sheets

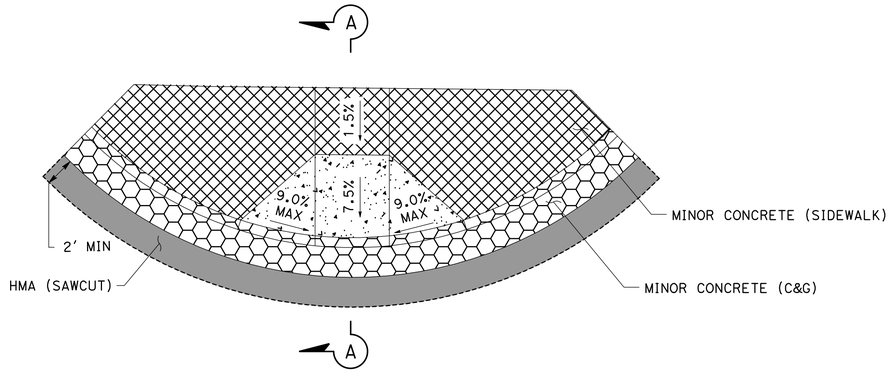
L-4

LEGEND:

- MINOR CONCRETE (CURB RAMP)
- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- HMA CONFORM (DWY)
- HMA (SAWCUT)

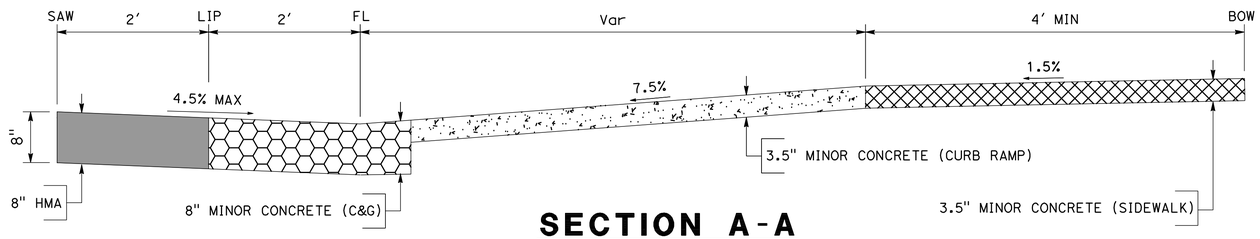
NOTES:

1. FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS A88A.



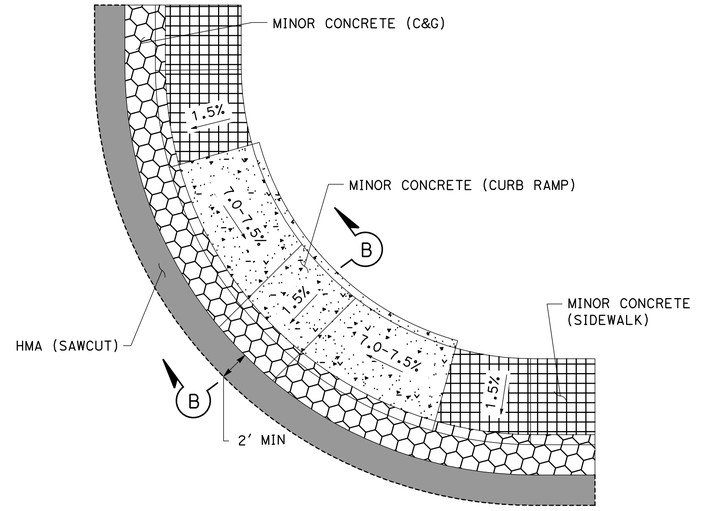
CURB RAMP TYPE A TYPICAL DETAIL

NO SCALE



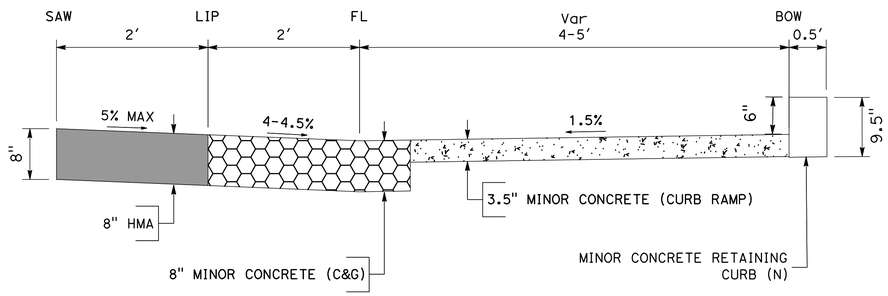
SECTION A-A

NO SCALE



CURB RAMP TYPE C TYPICAL DETAIL

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORIEGA — No. 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

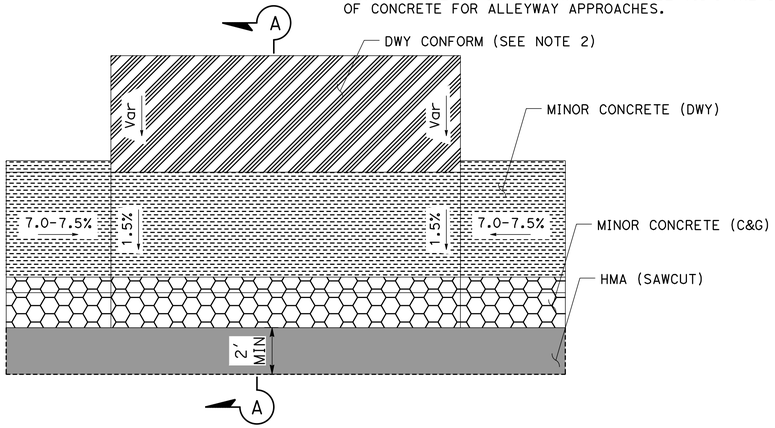
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

LEGEND:

- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- DWY CONFORM
- HMA (SAWCUT)

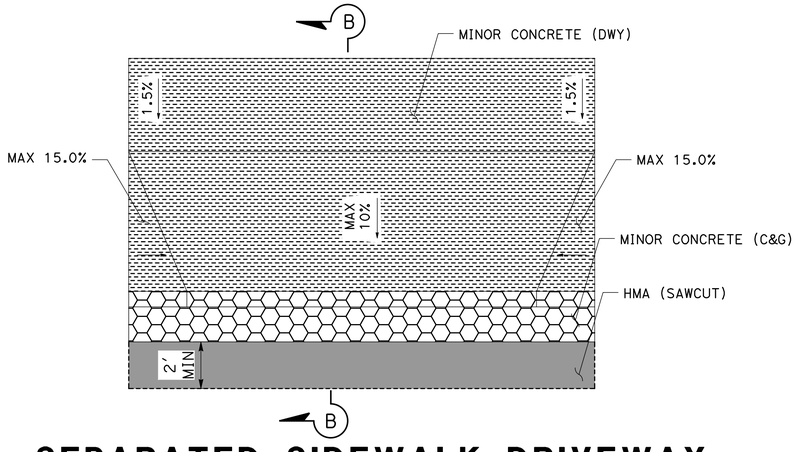
NOTES:

1. FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS A87A.
2. ALL DRIVEWAY CONFORMS SHALL MATCH EXISTING MATERIAL.
3. FOR INFORMATION NOT SHOWN REGARDING RESIDENTIAL DRIVEWAY APPROACHES, SEE CST DETAIL C-5. THE THICKNESS OF MINOR CONCRETE FOR RESIDENTIAL DRIVEWAYS SHALL BE 5.5".
4. FOR INFORMATION REGARDING COMMERCIAL DRIVEWAY APPROACHES, SEE CST DETAILS C-8 AND C-9. THE THICKNESS OF MINOR CONCRETE FOR COMMERCIAL DRIVEWAYS SHALL BE 7.5" AND THE THICKNESS FOR UNDERLYING CLASS 2 AGGREGATE BASE SHALL BE 6". THE COST OF REBAR IS INCLUDED IN THE COST OF CONCRETE FOR COMMERCIAL DRIVEWAYS.
5. FOR INFORMATION REGARDING ALLEYWAY APPROACHES, SEE CST DETAIL C-7. THE THICKNESS OF MINOR CONCRETE FOR ALLEYWAYS SHALL BE 7.5". THE COST OF REBAR IS INCLUDED IN THE COST OF CONCRETE FOR ALLEYWAY APPROACHES.



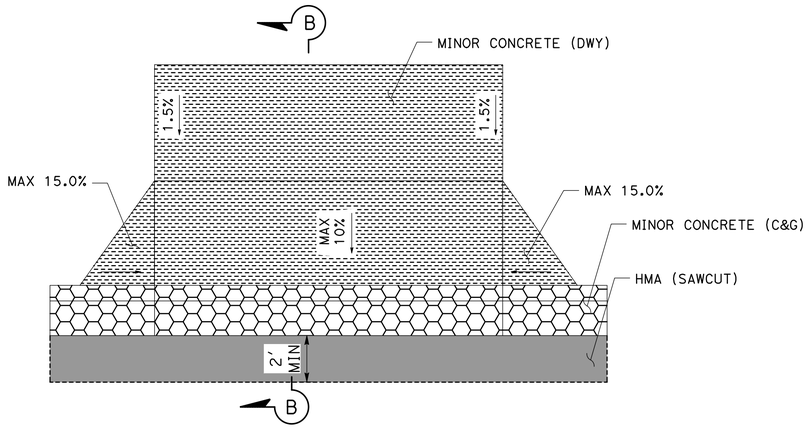
DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



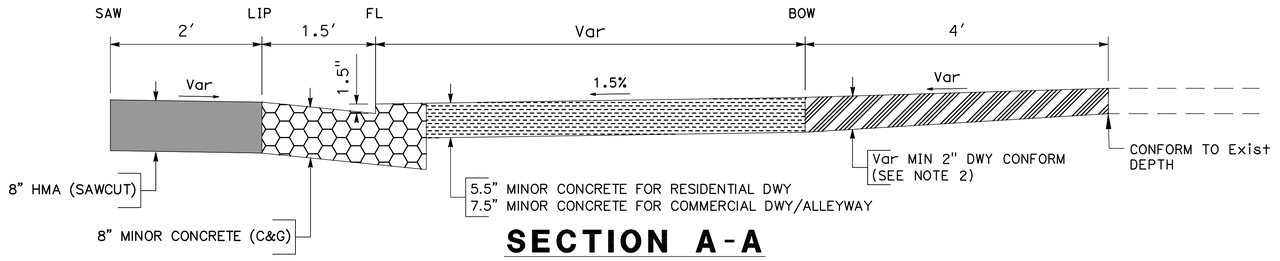
SEPARATED SIDEWALK DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



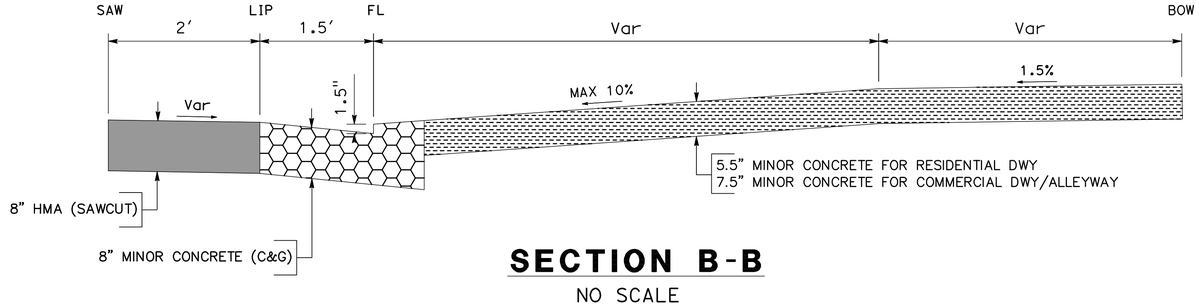
DRIVEWAY APPROACH (CALTRANS STD A87A)

NO SCALE



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
OCTAVIO R. MORIEGA
No. 81554
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

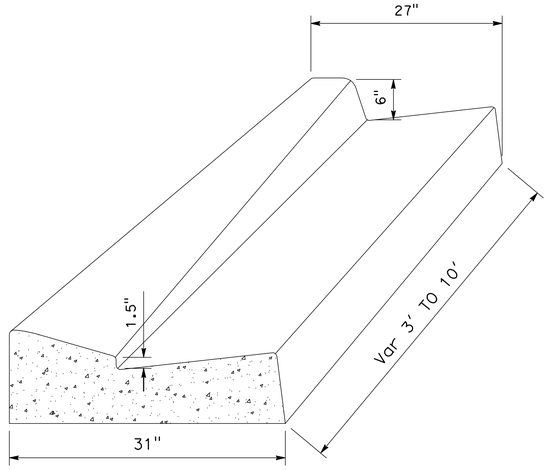
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 18 of 256 Sheets

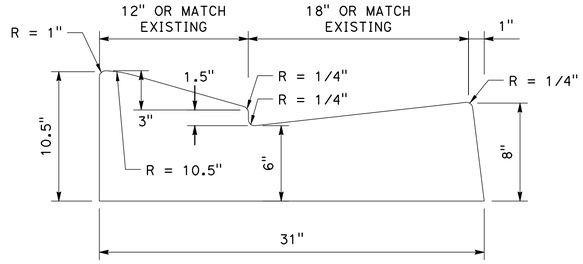
CD-2

NOTES:

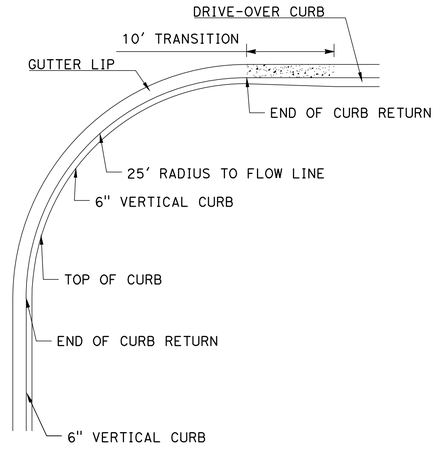
1. FOR C&G TRANSITIONS NEAR DRIVEWAYS, USE TRANSITION LENGTH OF 3'.
2. FOR C&G TRANSITIONS AT INTERSECTIONS AROUND CURB RETURNS, USE TRANSITION LENGTH OF 10'.
3. FOR INFORMATION REGARDING VALLEY GUTTERS, SEE CST DETAIL C-1.



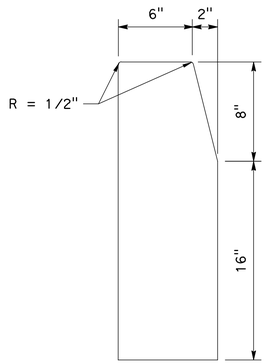
1 / CD-3 **CURB AND GUTTER TRANSITION**
NO SCALE



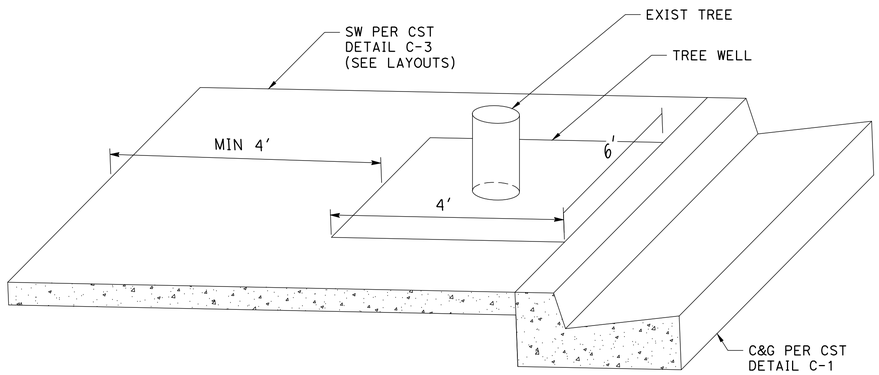
2 / CD-3 **DRIVE-OVER CURB DETAIL**
NO SCALE



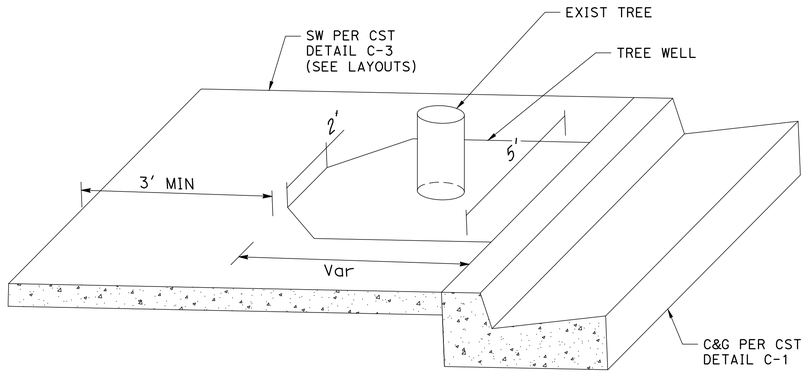
3 / CD-3 **VERTICAL TO DRIVE OVER CURB**
NO SCALE



4 / CD-3 **LANDSCAPE MEDIAN CURB**
NO SCALE



5 / CD-3 **TYPICAL TREE WELL**
NO SCALE



6 / CD-3 **TREE WELL (CONSTRAINED)**
NO SCALE

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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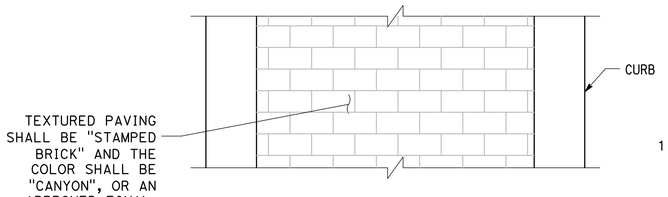
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

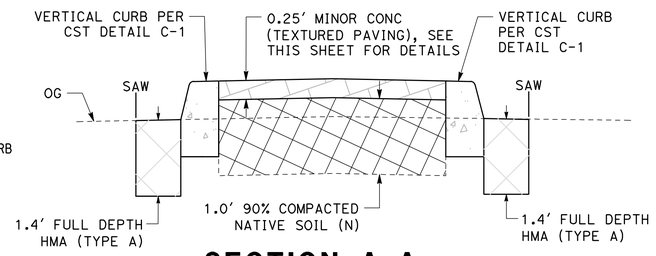
CD-3

NOTES:

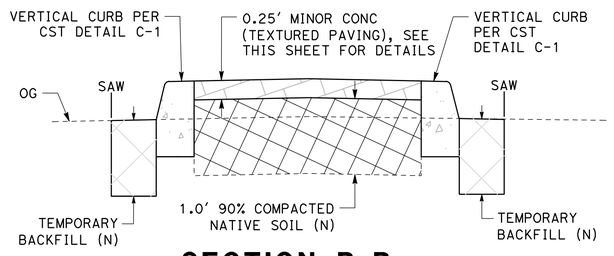
1. EXISTING ELEVATIONS SHOWN AS (XX.XX)
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

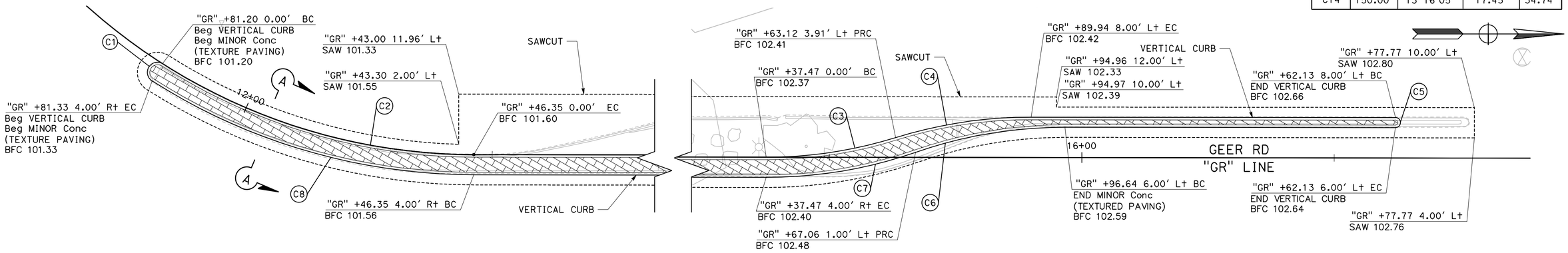


SECTION A-A
NO SCALE

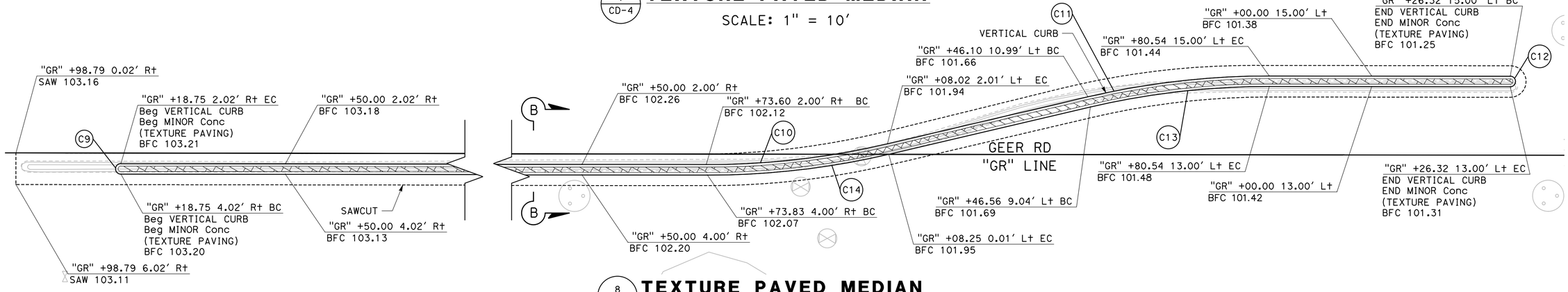


SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C1	2.00'	176°10'01"	59.84'	6.16'
C2	115.00'	32°27'36"	33.48'	65.15'
C3	86.00'	17°20'29"	13.11'	26.03'
C4	90.00'	17°20'29"	13.72'	27.24'
C5	1.00'	180°00'00"	INFINITY'	3.14'
C6	90.00'	19°11'17"	15.21'	30.14'
C7	90.00'	19°11'17"	15.21'	30.14'
C8	119.00'	32°23'36"	34.57'	67.28'
C9	1.00'	180°07'45"	886.21'	3.14'
C10	150.00'	13°16'05"	17.45'	34.74'
C11	150.00'	13°16'33"	17.46'	34.76'
C12	1.00'	180°00'00"	INFINITY'	3.14'
C13	148.00'	13°16'33"	17.22'	34.29'
C14	150.00'	13°16'05"	17.45'	34.74'



7 / CD-4 **TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



8 / CD-4 **TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — EDWARD A. MORIEGA — No. C 41655 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

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SUITE 150
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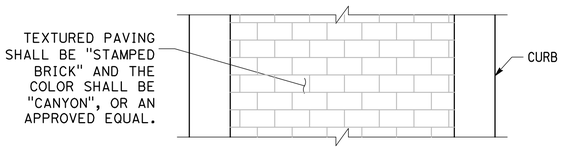
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

Sheet 20 of 256 Sheets

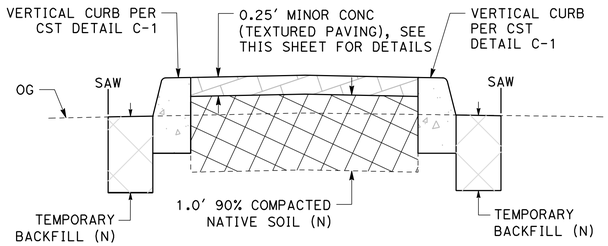
CD-4

NOTE:

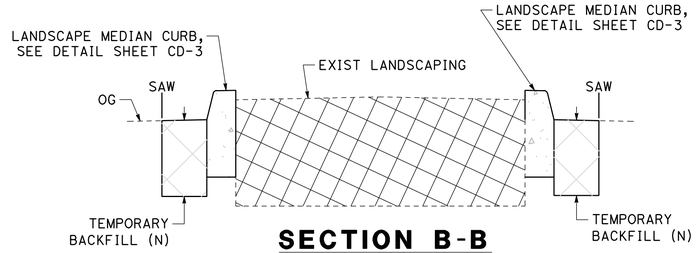
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

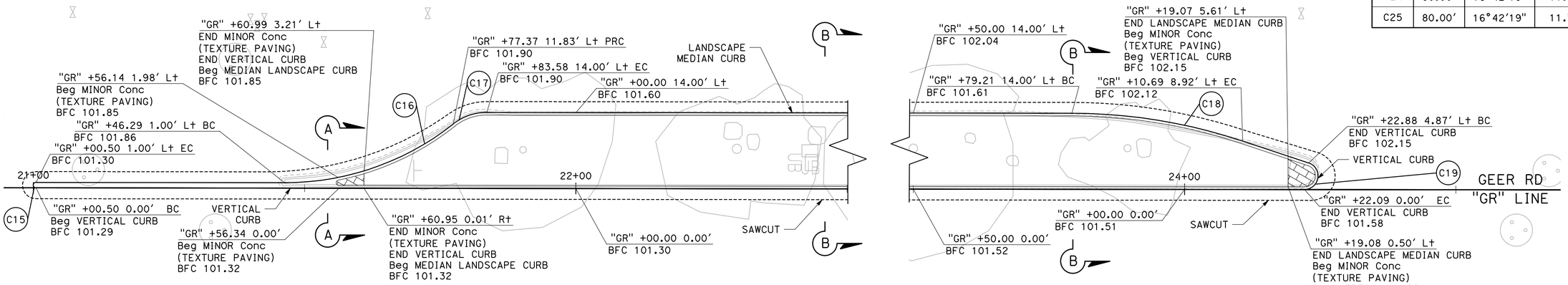


SECTION A-A
NO SCALE

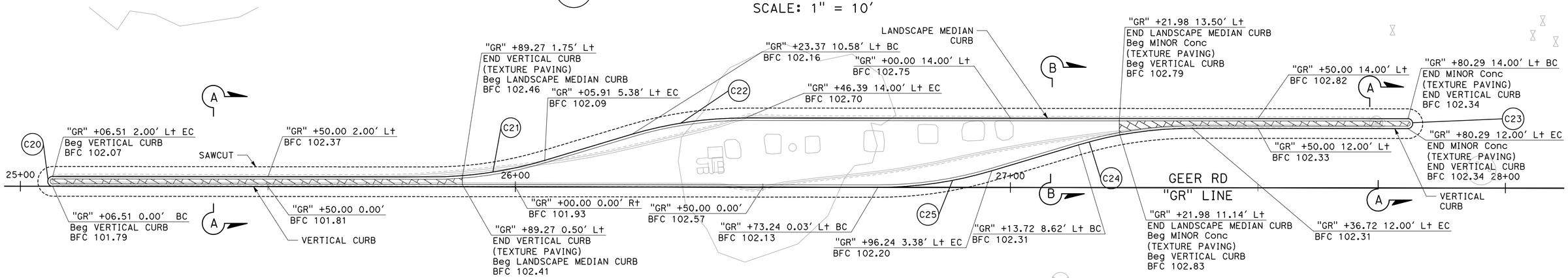


SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C15	0.50'	180°00'20"	10244.15'	1.57'
C16	50.00'	38°26'00"	17.43'	33.54'
C17	10.00'	38°26'00"	3.49'	6.71'
C18	100.00'	18°20'51"	16.15'	32.02'
C19	2.50'	161°39'09"	15.48'	7.05'
C20	1.00'	180°00'00"	INFINITY'	3.14'
C21	80.00'	16°42'19"	11.75'	23.32'
C22	80.00'	16°42'19"	11.75'	23.32'
C23	1.00'	180°00'00"	INFINITY'	3.14'
C24	80.00'	16°42'19"	11.75'	23.32'
C25	80.00'	16°42'19"	11.75'	23.32'



9 / CD-5 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



10 / CD-5 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JULIAN A. ORTEGA — No. 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

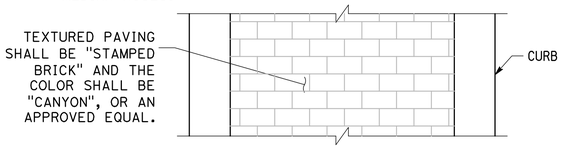
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 21 of 256 Sheets

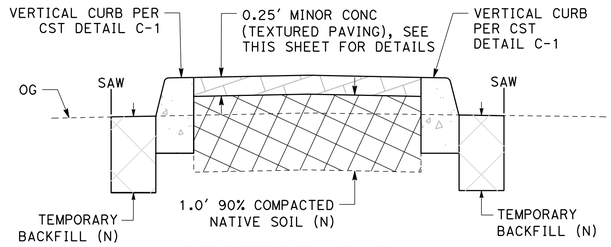
CD-5

NOTE:

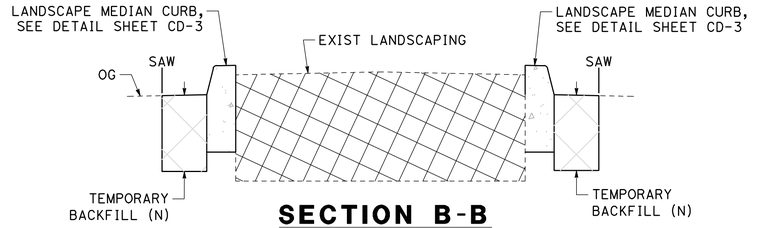
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

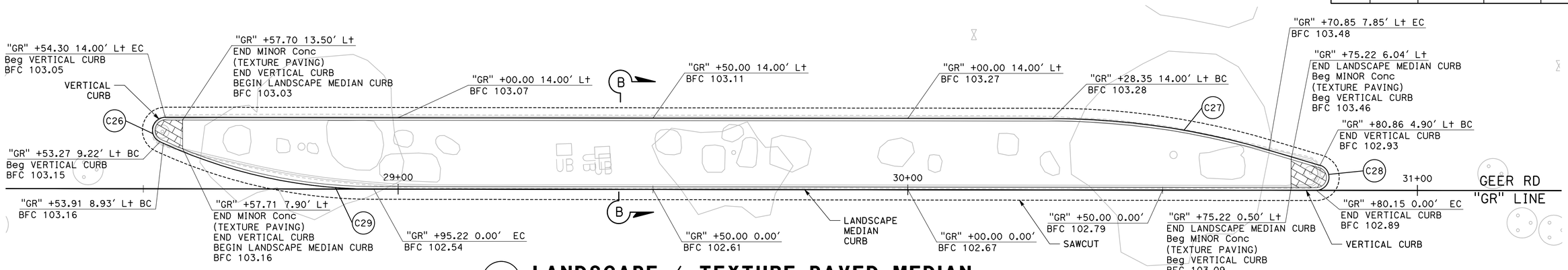


SECTION A-A
NO SCALE



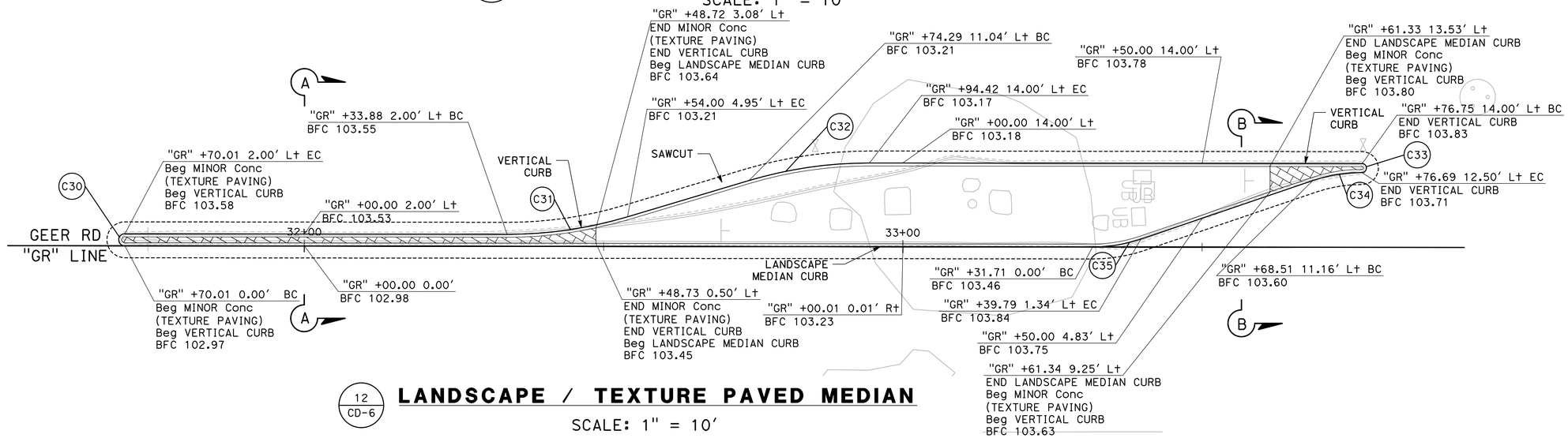
SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C26	2.50'	155°35'47"	11.56'	6.79'
C27	150.00'	16°27'27"	21.69'	43.09'
C28	2.50'	163°32'33"	17.29'	7.14'
C29	100.00'	24°24'13"	21.62'	42.59'
C30	1.00'	180°00'00"	INFINITY'	3.14'
C31	70.00'	16°42'17"	10.28'	20.41'
C32	70.00'	16°42'19"	10.28'	20.41'
C33	0.75'	179°32'29"	187.39'	2.35'
C34	25.00'	18°51'53"	4.15'	8.23'
C35	25.00'	18°51'51"	4.15'	8.23'



11 / CD-6 **LANDSCAPE / TEXTURE PAVED MEDIAN**

SCALE: 1" = 10'



12 / CD-6 **LANDSCAPE / TEXTURE PAVED MEDIAN**

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 10 0 10 20

REGISTERED PROFESSIONAL ENGINEER JORGE R. ARRIEGA No. 84554 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

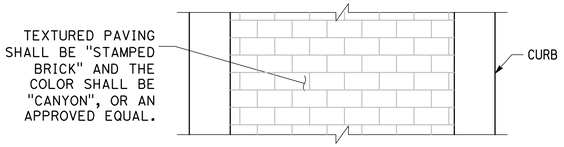
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

Sheet 22 of 256 Sheets

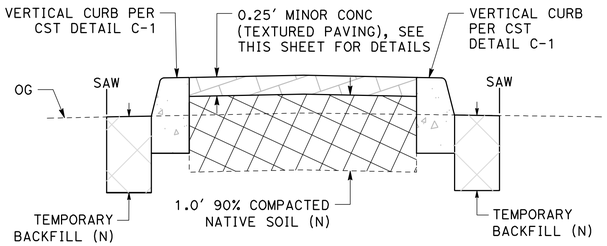
CD-6

NOTE:

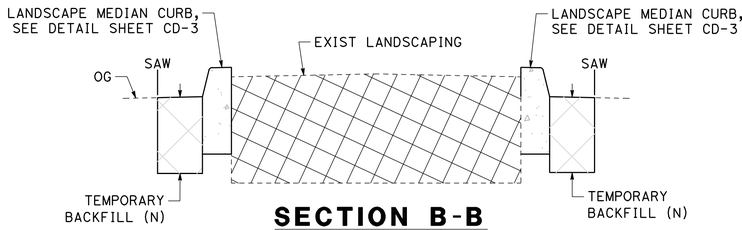
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

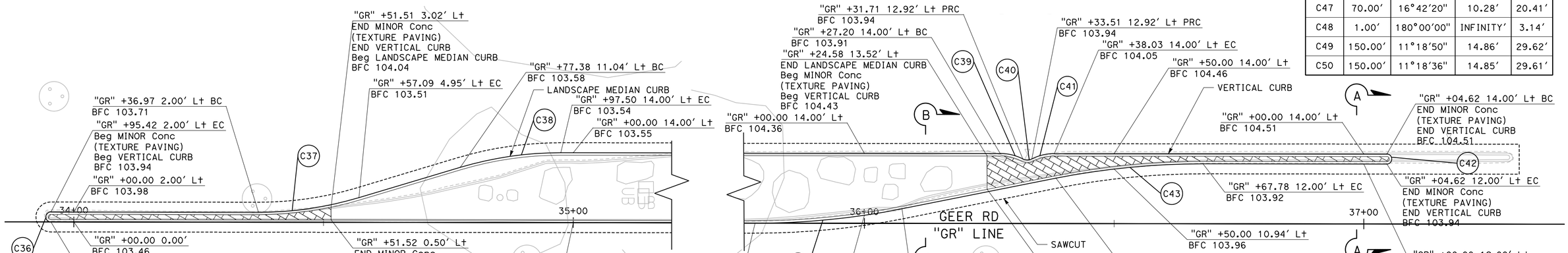


SECTION A-A
NO SCALE



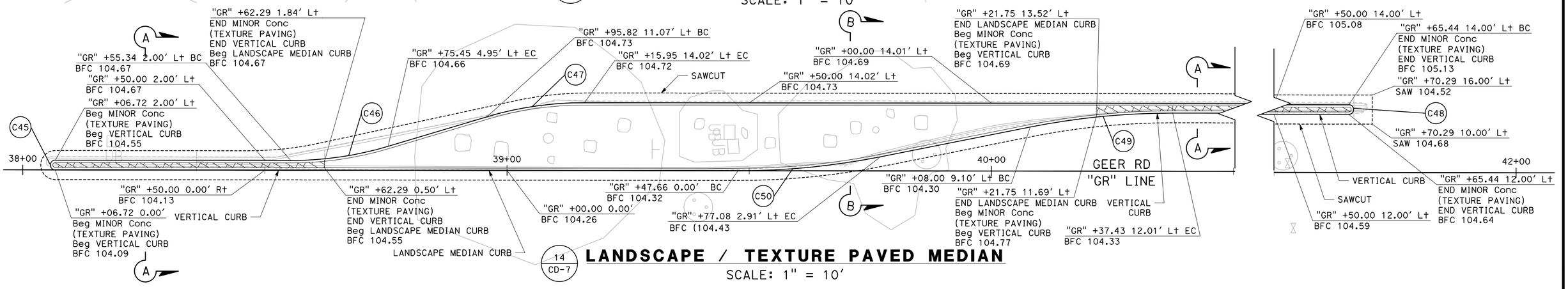
SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C36	1.00'	180°00'00"	INFINITY'	3.14'
C37	70.00'	16°42'17"	10.28'	20.41'
C38	70.00'	16°42'19"	10.28'	20.41'
C39	10.00'	26°49'39"	2.38'	4.68'
C40	2.00'	53°38'54"	1.01'	1.87'
C41	10.00'	26°49'39"	2.38'	4.68'
C42	1.00'	180°00'00"	INFINITY'	3.14'
C43	150.00'	11°18'47"	14.86'	29.62'
C44	150.00'	11°18'46"	14.86'	29.62'
C45	1.00'	180°00'00"	INFINITY'	3.14'
C46	70.00'	16°42'06"	10.28'	20.40'
C47	70.00'	16°42'20"	10.28'	20.41'
C48	1.00'	180°00'00"	INFINITY'	3.14'
C49	150.00'	11°18'50"	14.86'	29.62'
C50	150.00'	11°18'36"	14.85'	29.61'



13
CD-7

LANDSCAPE / TEXTURE PAVED MEDIAN
SCALE: 1" = 10'



14
CD-7

LANDSCAPE / TEXTURE PAVED MEDIAN
SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JONATHAN A. MORIEGA — No. 81458 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

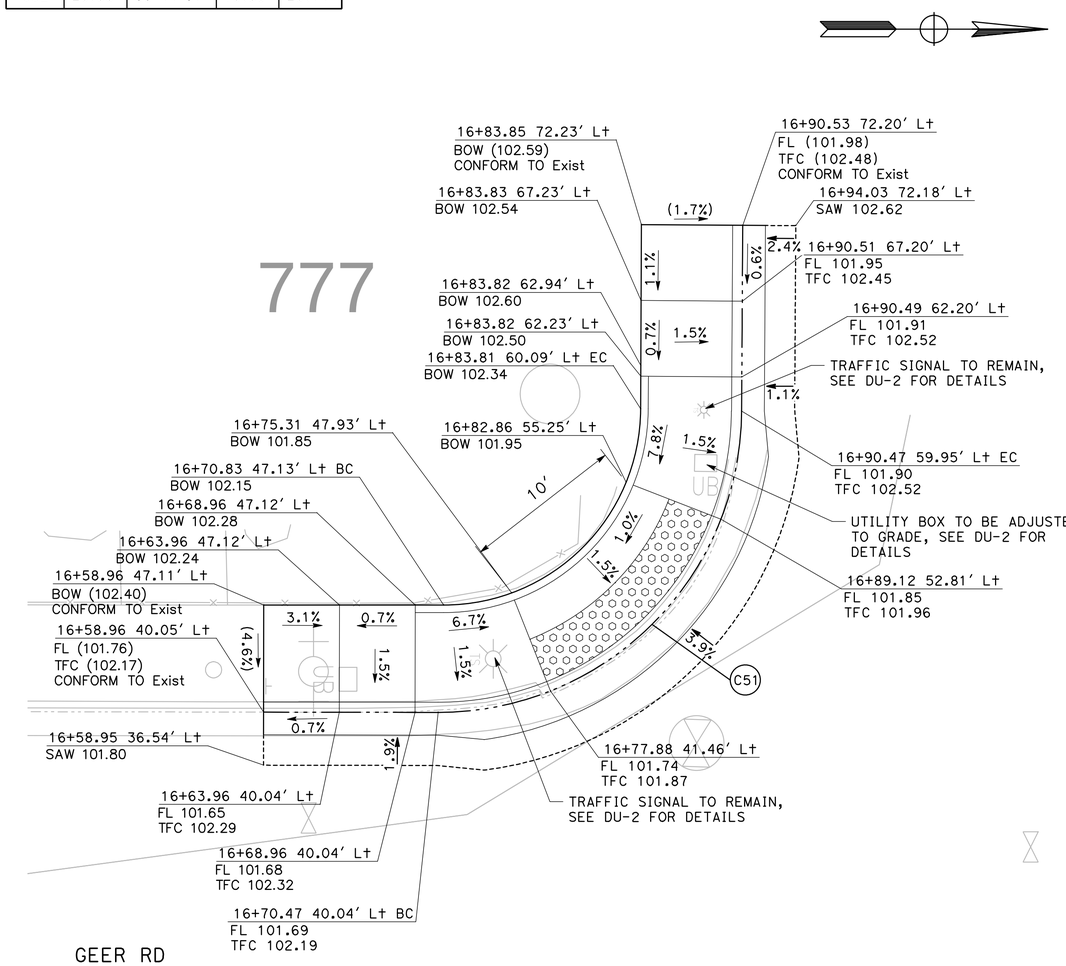
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

Sheet 23 of 256 Sheets

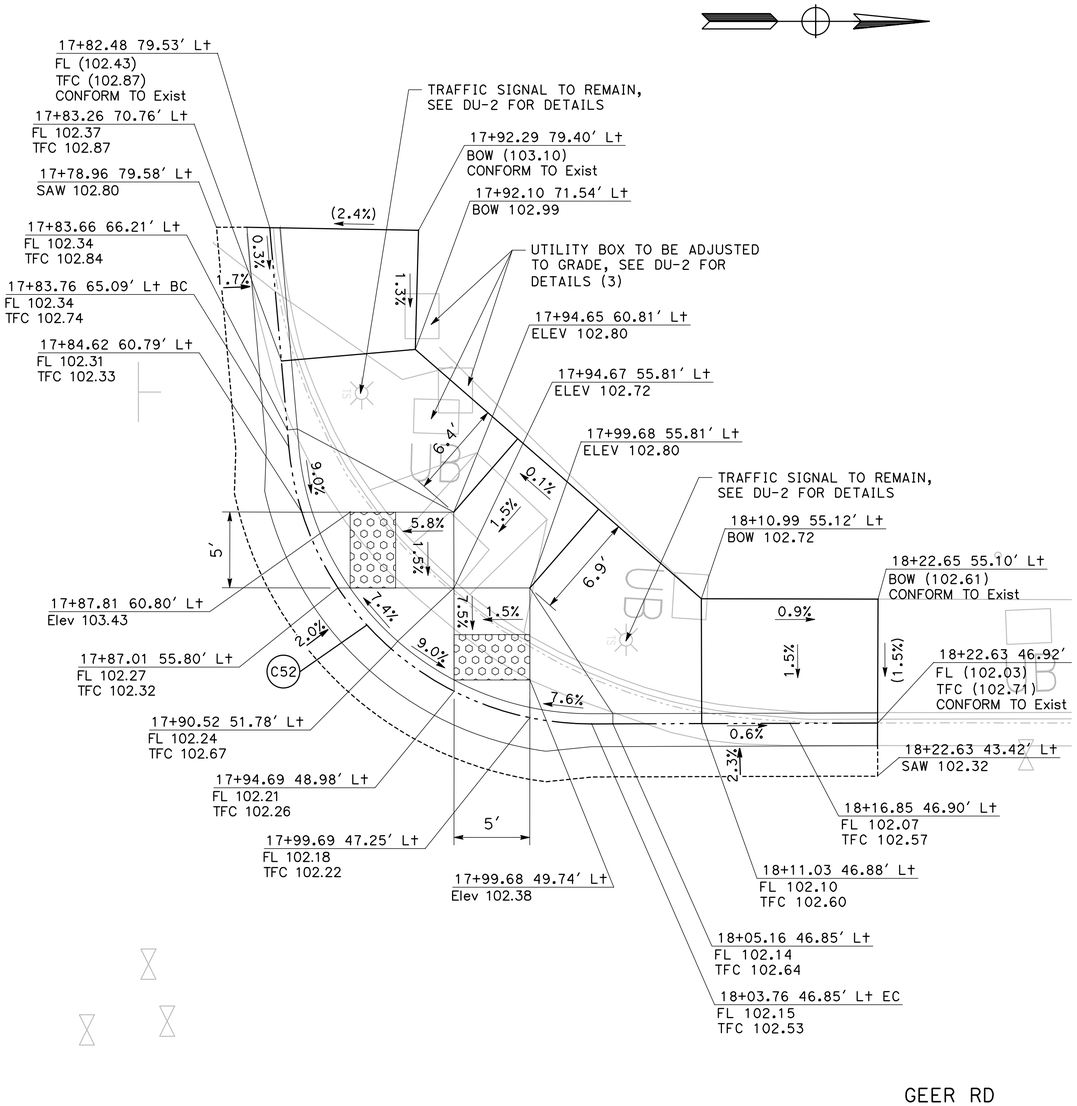
CD-7

CURVE TABLE				
No. X	R	Δ	T	L
C51	20.00′	89°44′19"	19.91′	31.32′
C52	20.00′	85°11′31"	18.39′	29.74′



15 / CD-8 **W CANAL DR / GEER RD SW CURB RAMP**

SCALE: 1" = 5′



16 / CD-8 **W CANAL DRIVE / GEER RD NW CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MORIEGA — No. C 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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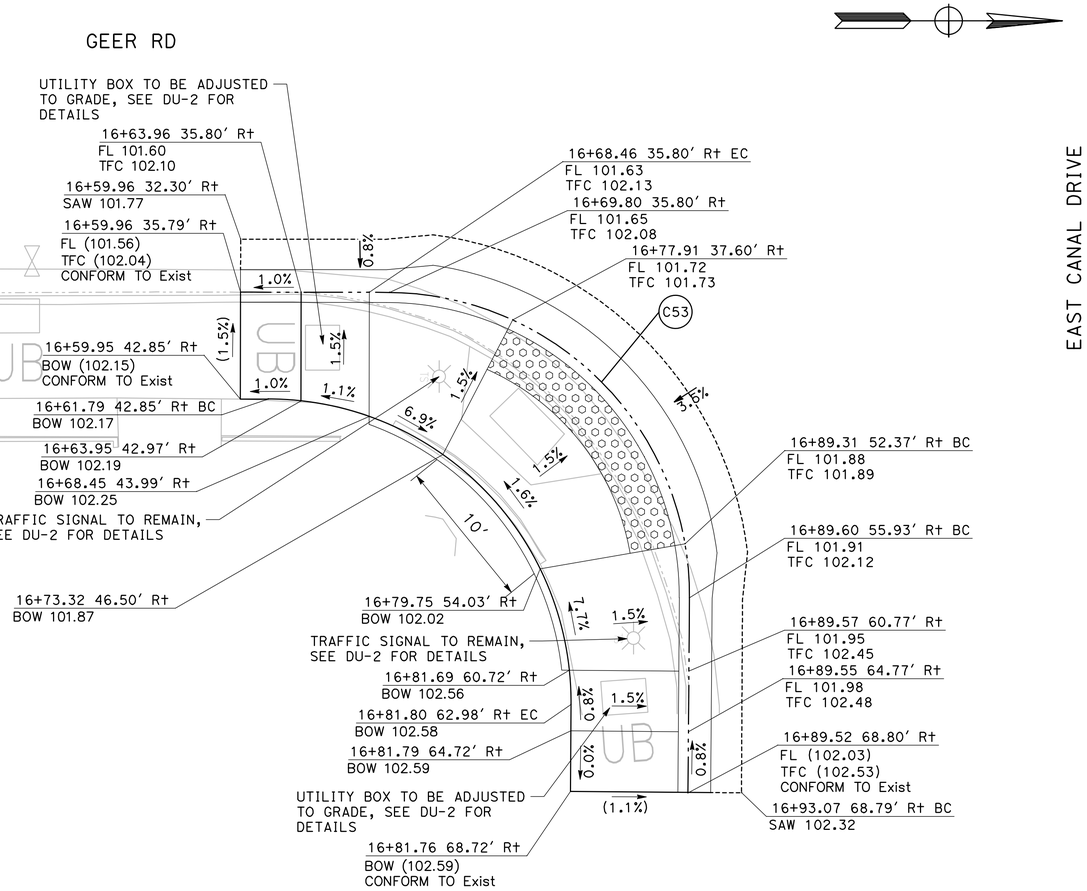
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

Sheet 24 of 256 Sheets

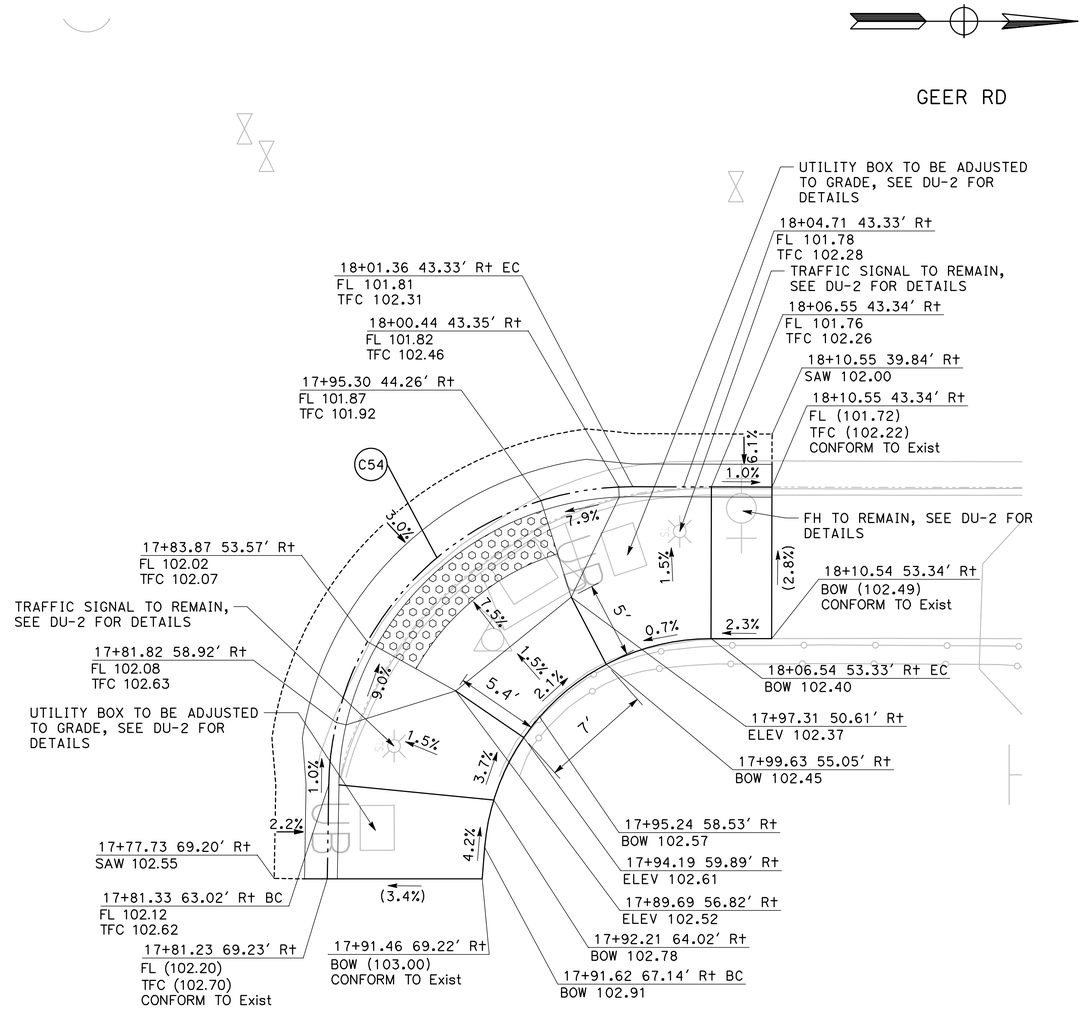
CD-8

CURVE TABLE				
No. X	R	Δ	T	L
C53	20.00′	90°23′48"	20.14′	31.55′
C54	20.00′	89°12′12"	19.72′	31.14′



17 / CD-9 **E CANAL DR / GEER RD SE CURB RAMP**

SCALE: 1" = 5′



18 / CD-9 **E CANAL DR / GEER RD NE CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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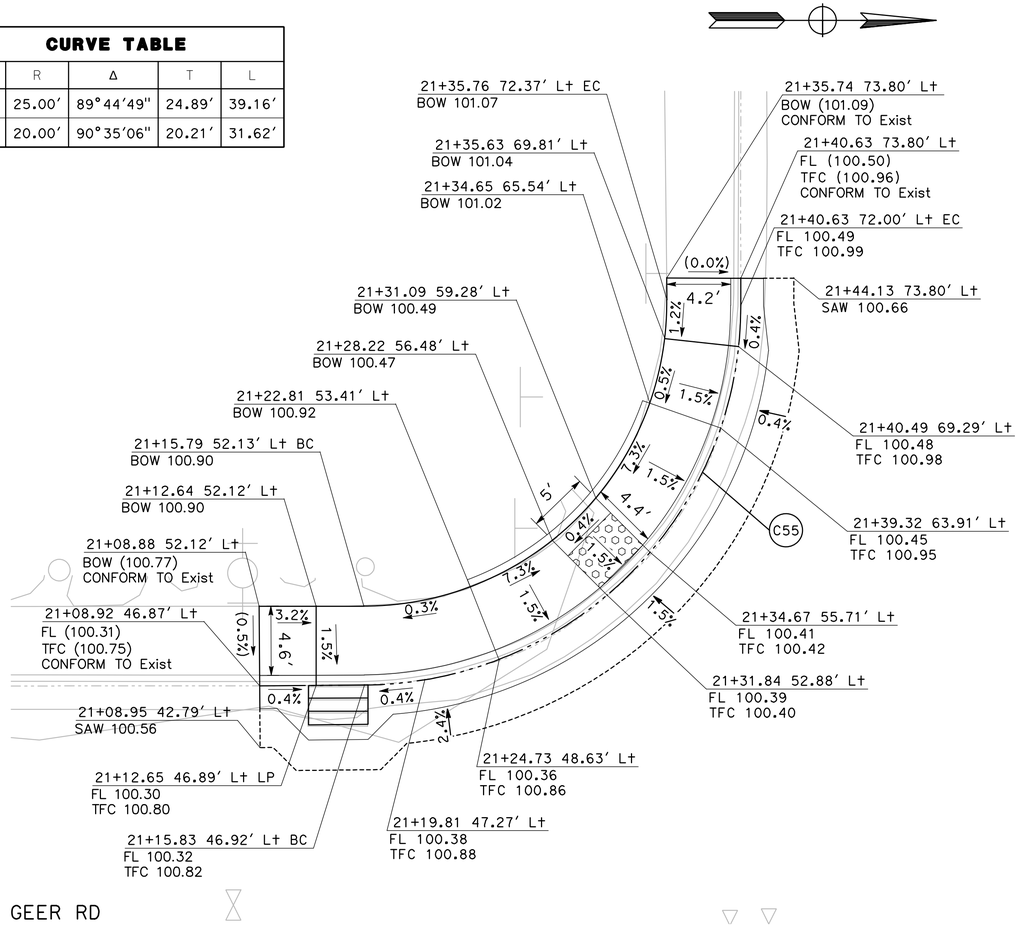
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 25 of 256 Sheets

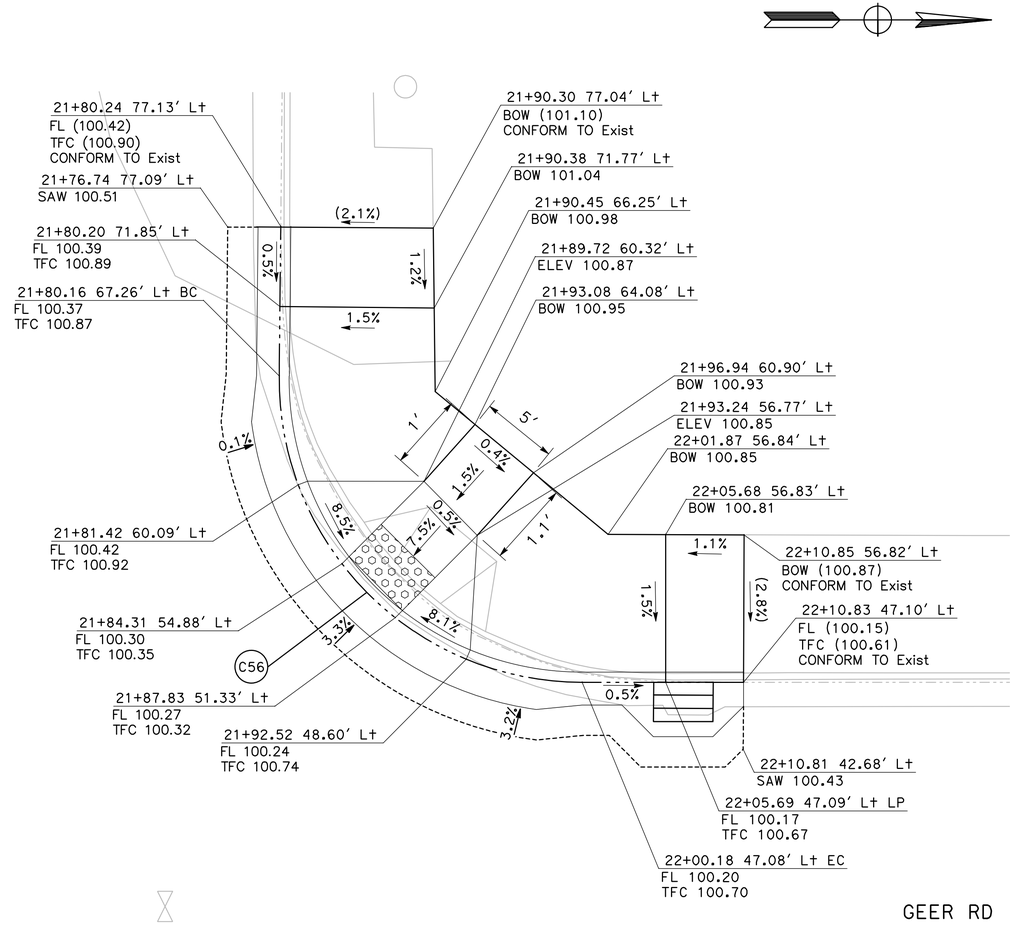
CD-9

CURVE TABLE				
No. X	R	Δ	T	L
C55	25.00′	89°44′49"	24.89′	39.16′
C56	20.00′	90°35′06"	20.21′	31.62′



19 CD-10 **WEST SYRACUSE AVE / GEER RD SW CURB RAMP**

SCALE: 1" = 5′



20 CD-10 **WEST SYRACUSE AVE / GEER RD NW CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — JORGE A. MORIEGA — No. 81554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

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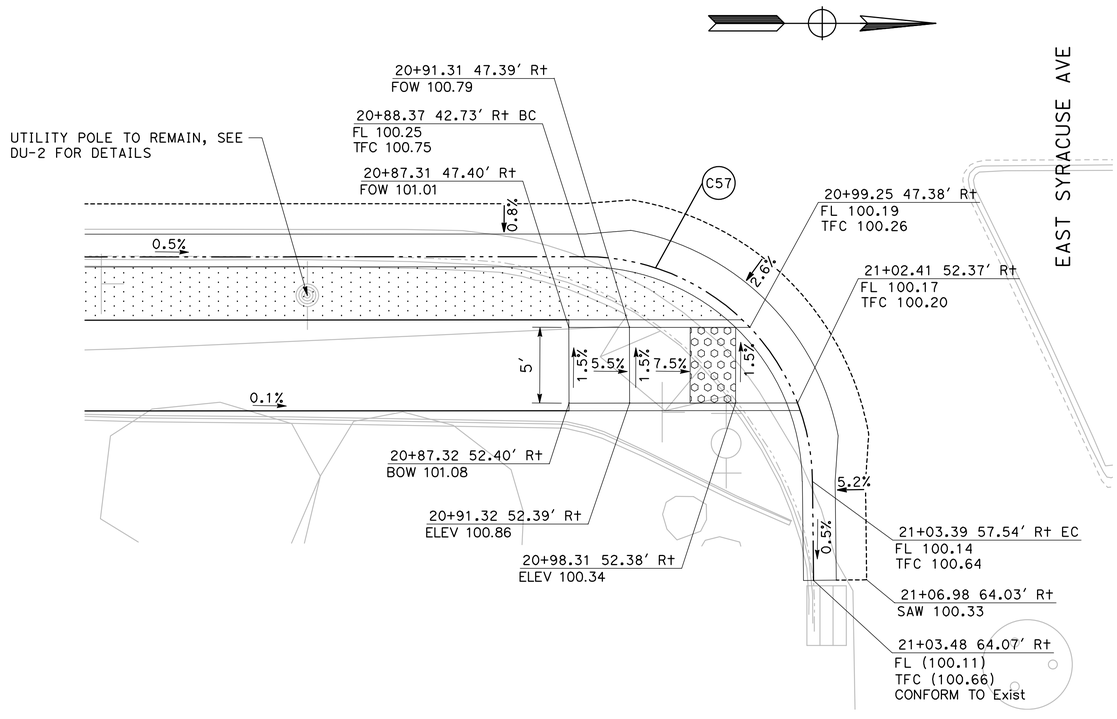
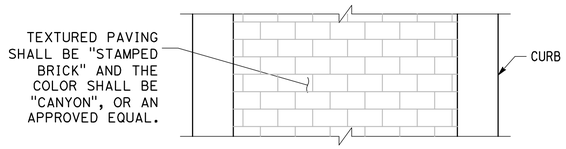
CD-10

CURVE TABLE				
No. X	R	Δ	T	L
C57	15.00′	89°21′35"	14.83′	23.39′
C58	15.00′	90°05′57"	15.03′	23.59′



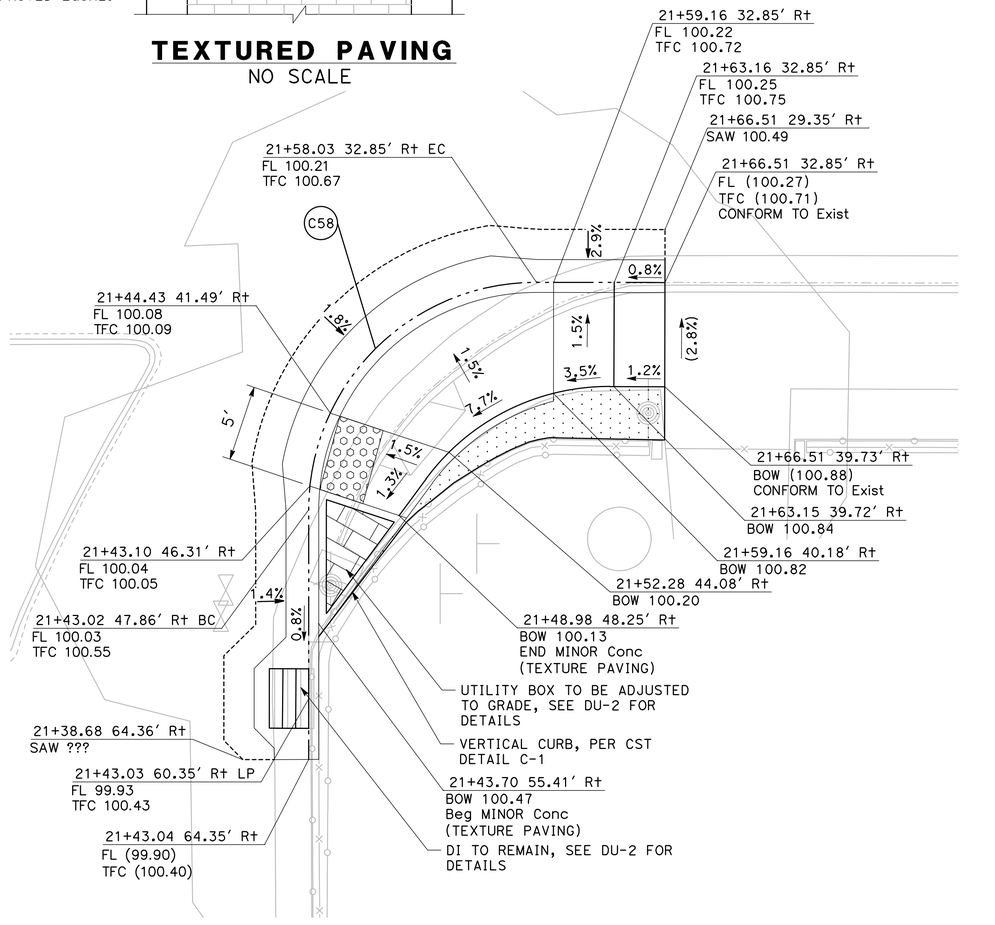
21 / CD-11 **EAST SYRACUSE AVE / GEER RD SE CURB RAMP**

SCALE: 1" = 5′



TEXTURED PAVING

NO SCALE



22 / CD-11 **EAST SYRACUSE AVE / GEER RD NE CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. C 55581 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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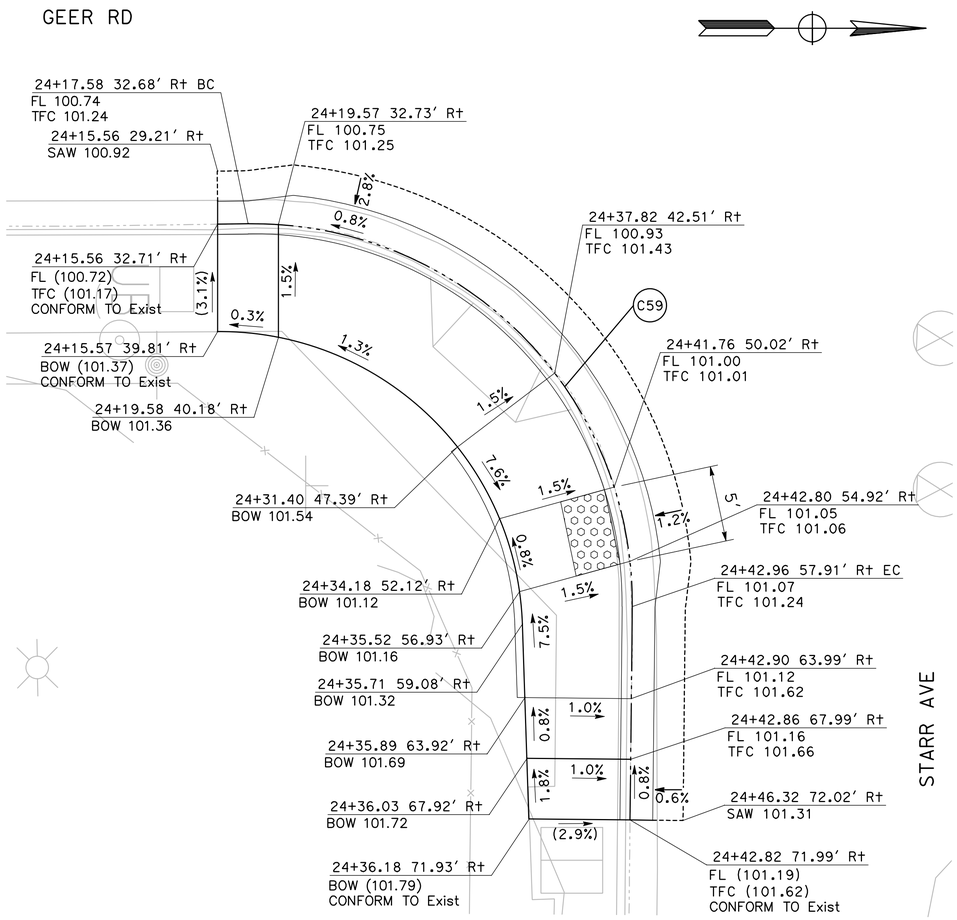
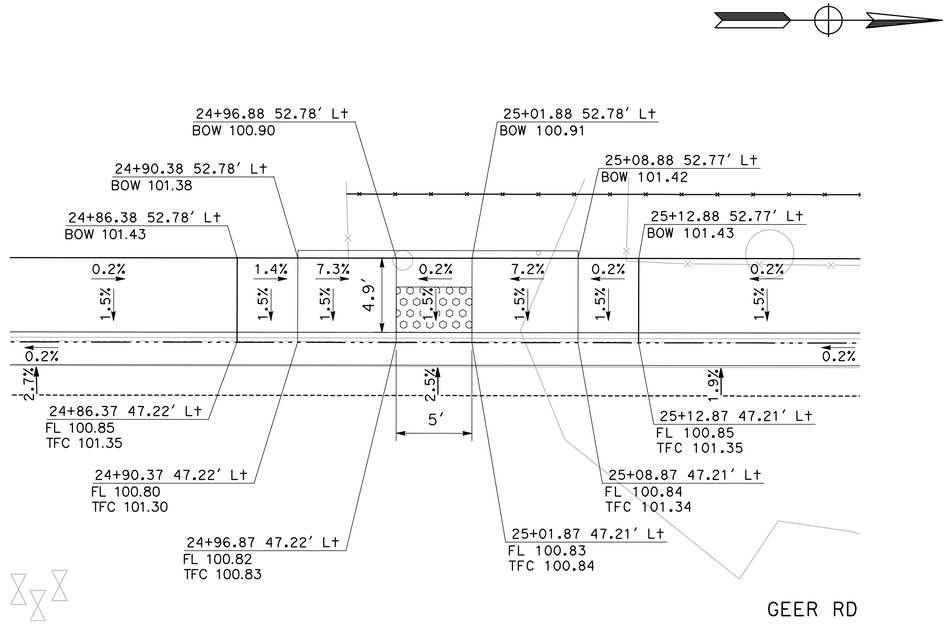
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 27 of 256 Sheets

CD-11



CURVE TABLE				
No. X	R	Δ	T	L
C59	25.00'	91°24'12"	25.62'	39.88'



23 CD-12 STARR AVE / GEER RD SE CURB RAMP

SCALE: 1" = 5'

24 CD-12 STARR AVE / GEER RD NW CURB RAMP

SCALE: 1" = 5'

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=5'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 41455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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SUITE 150
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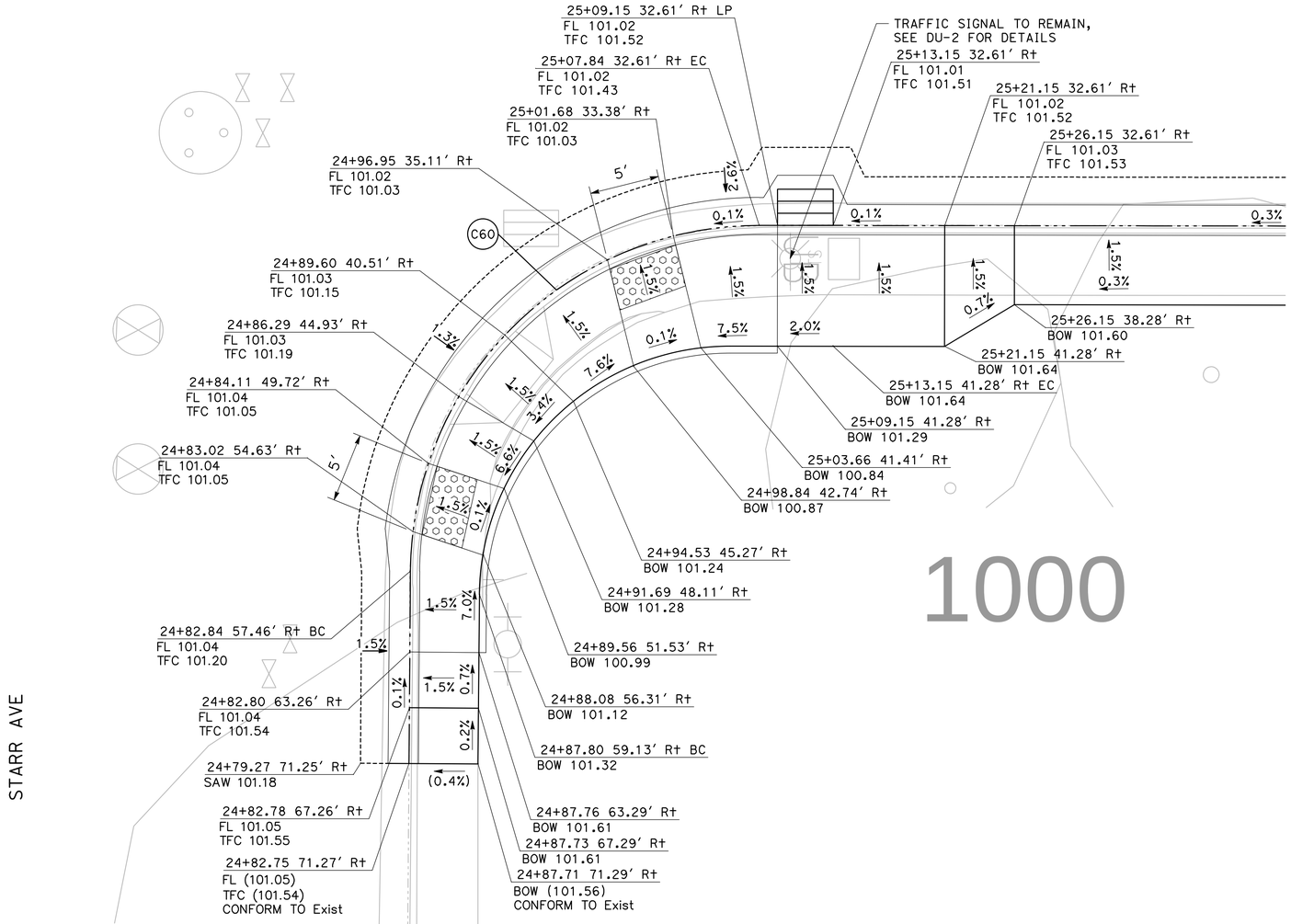
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 28 of 256 Sheets

CD-12

CURVE TABLE				
No. X	R	Δ	T	L
C60	25.00′	89°39′42"	24.85′	39.12′



1000

25 / CD-13 STARR AVE / GEER RD NE CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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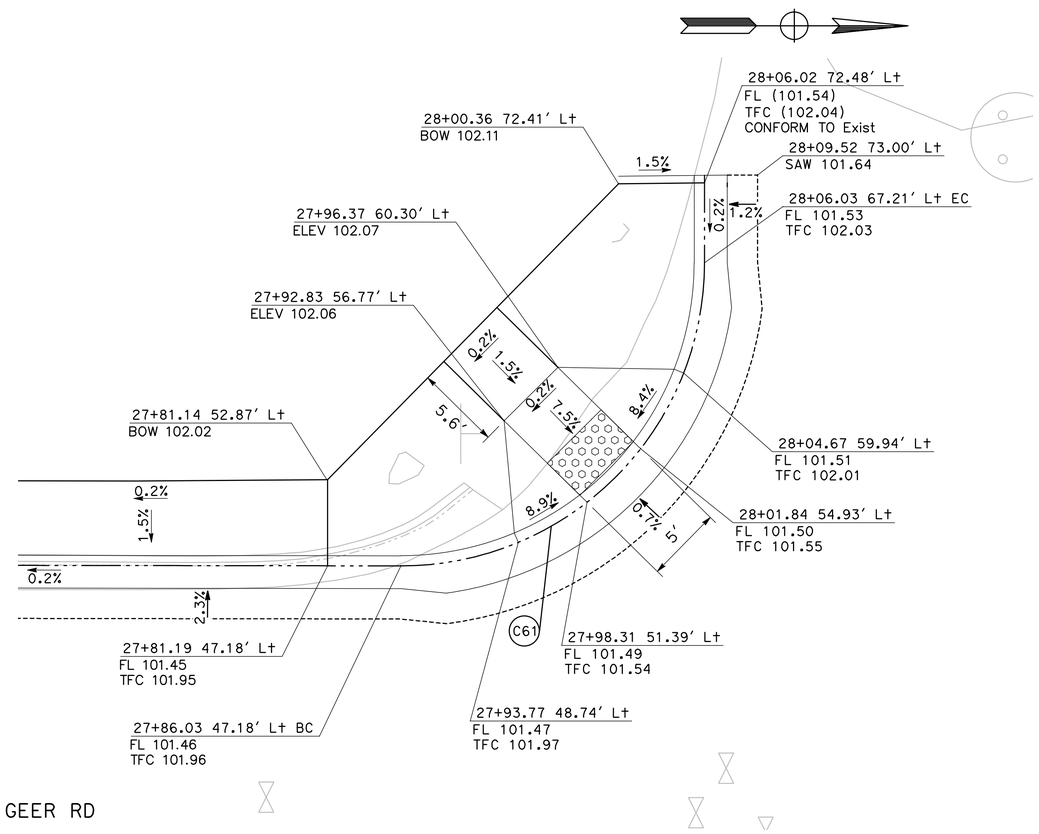
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

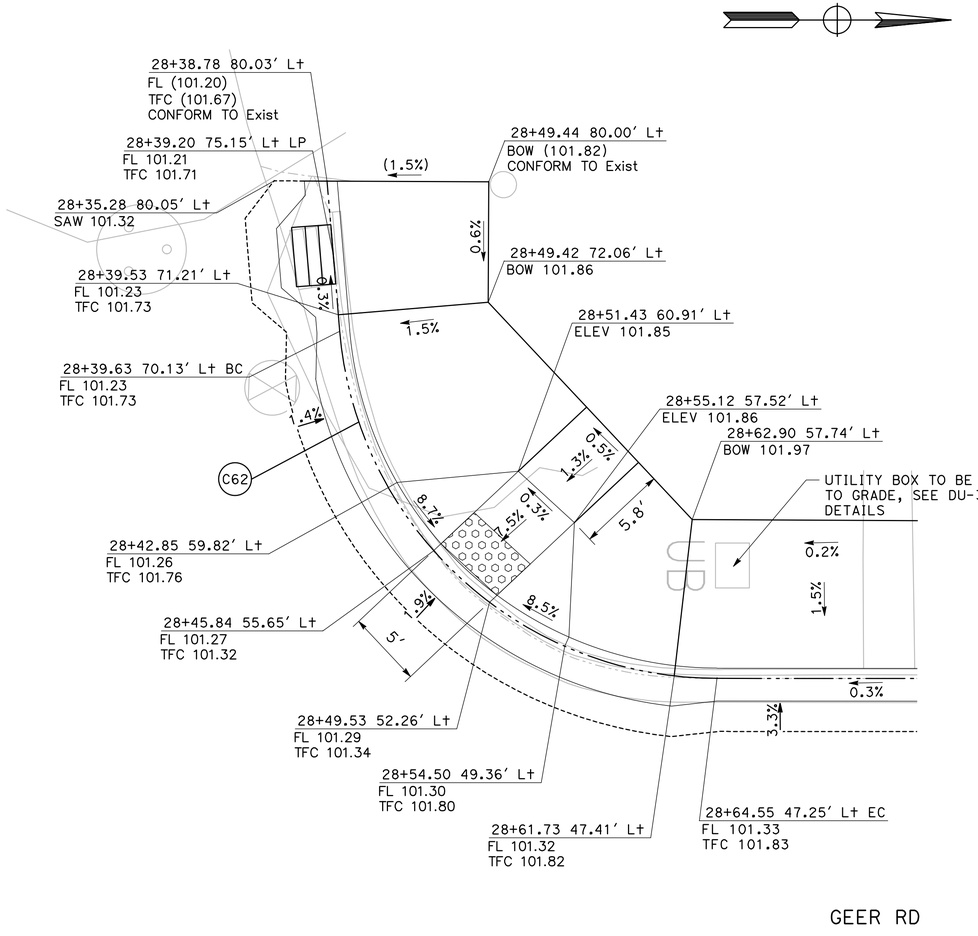
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

CURVE TABLE				
No. X	R	Δ	T	L
C61	20.00′	90°04′18"	20.03′	31.44′
C62	25.00′	85°09′44"	22.97′	37.16′



26 CD-14 **ALMOND AVE / GEER RD SW CURB RAMP**

SCALE: 1" = 5′



27 CD-14 **ALMOND AVE / GEER RD NW CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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ROADS PROGRAM DIVISION
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SUITE 150
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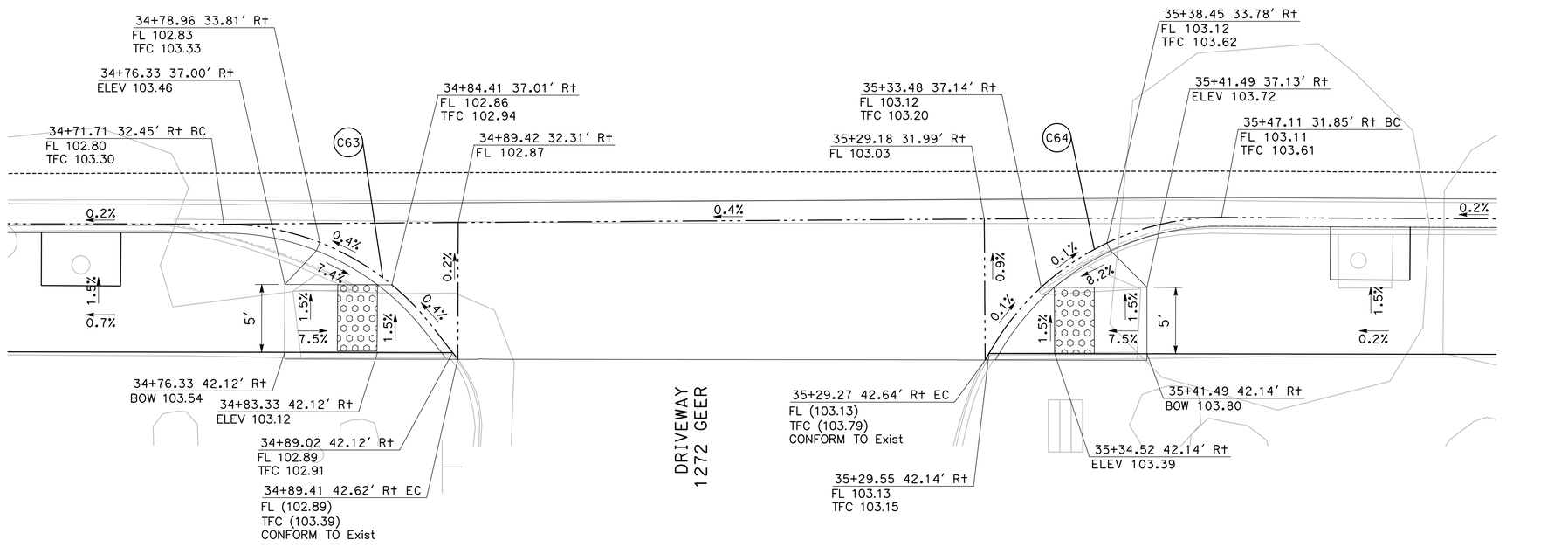
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 30 of 256 Sheets

CD-14

CURVE TABLE				
No. X	R	Δ	T	L
C63	20.00′	51°48′43"	9.71′	18.09′
C64	20.05′	61°16′46"	11.87′	21.44′



28
CD-15

WAYSIDE DR / GEER RD EAST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
JORGE A. ORTEGA
No. 84554
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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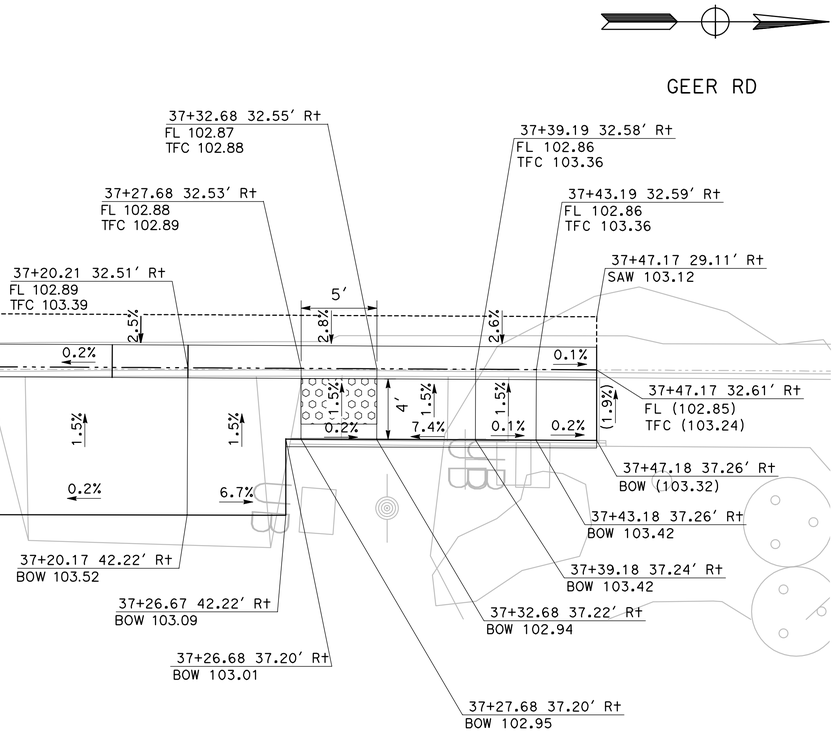
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

Sheet 31 of 256 Sheets

CD-15



29
CD-16

20TH CENTURY BLVD / GEER RD EAST CURB RAMP

SCALE: 1" = 5'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. ORTEGA
No. 81556
6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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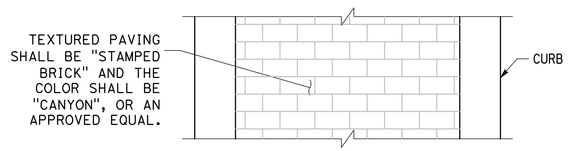
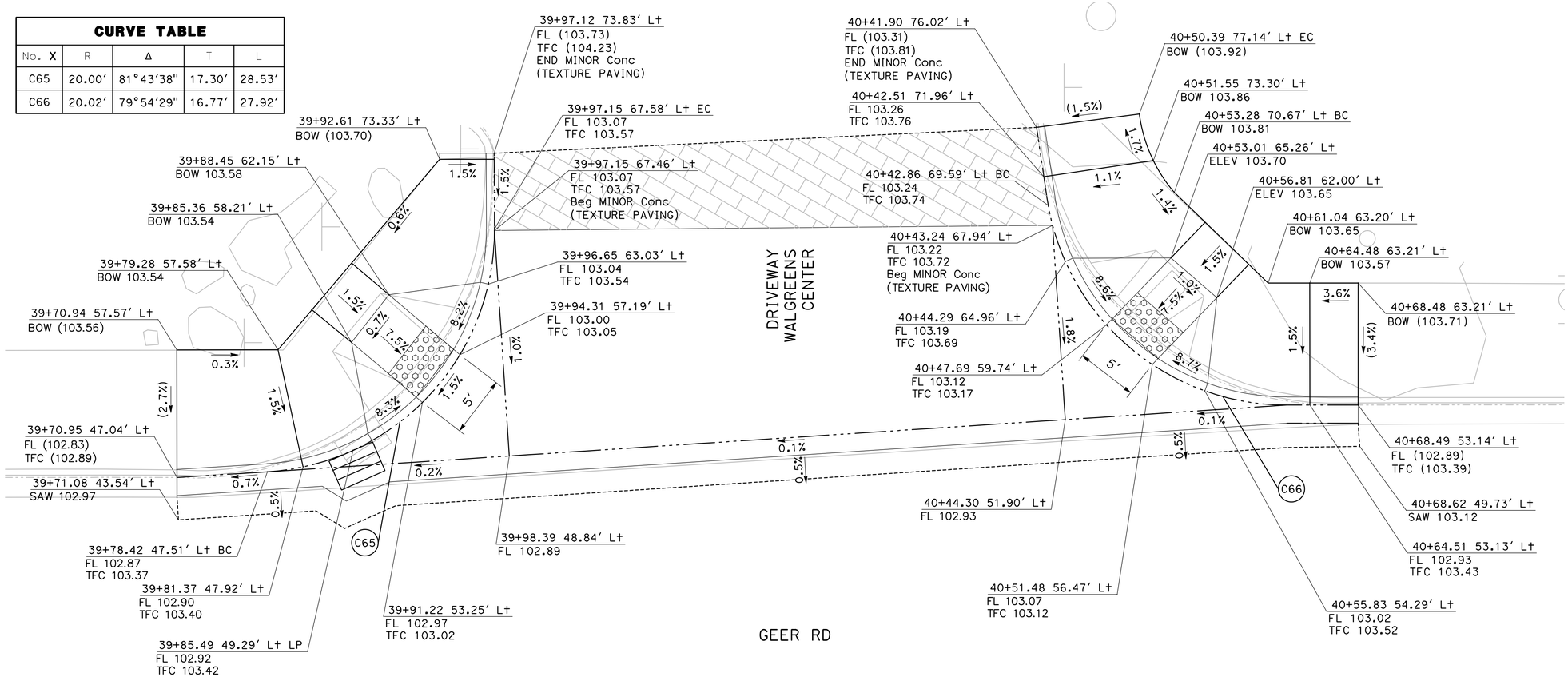
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

CD-16



TEXTURED PAVING
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C65	20.00′	81°43′38"	17.30′	28.53′
C66	20.02′	79°54′29"	16.77′	27.92′



30 / CD-17 20TH CENTURY BLVD / GEER RD WEST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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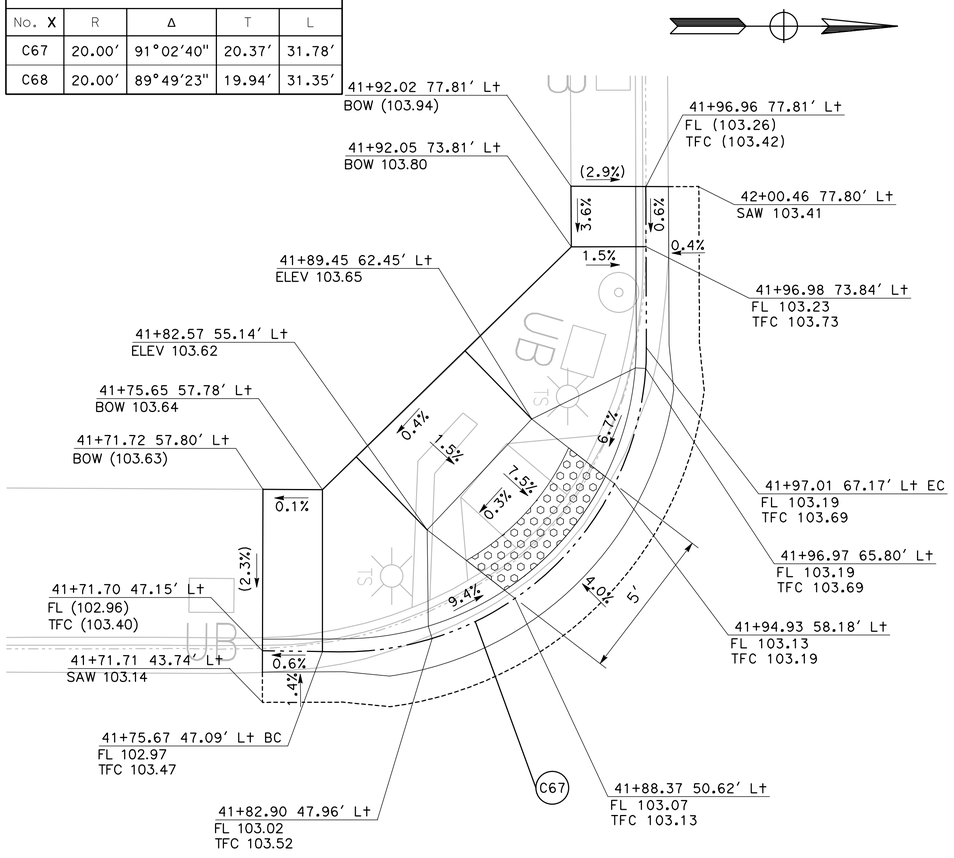
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

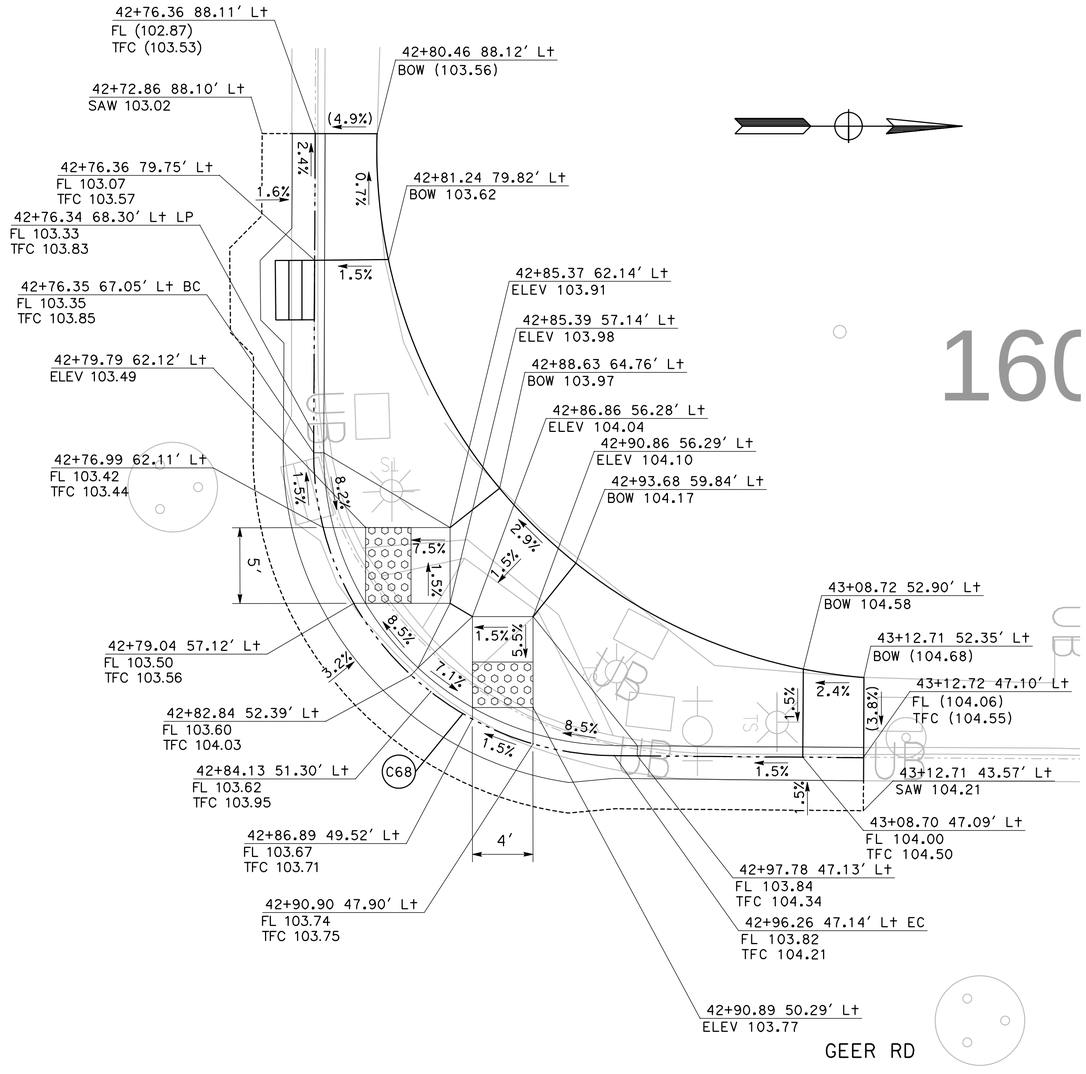
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

CURVE TABLE				
No. X	R	Δ	T	L
C67	20.00′	91°02′40"	20.37′	31.78′
C68	20.00′	89°49′23"	19.94′	31.35′



GEER RD

WEST HAWKEYE AVE



GEER RD

160

31 CD-18 WEST HAWKEYE AVE / GEER RD SW CURB RAMPS

SCALE: 1" = 5′

32 CD-18 WEST HAWKEYE AVE / GEER RD NW CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

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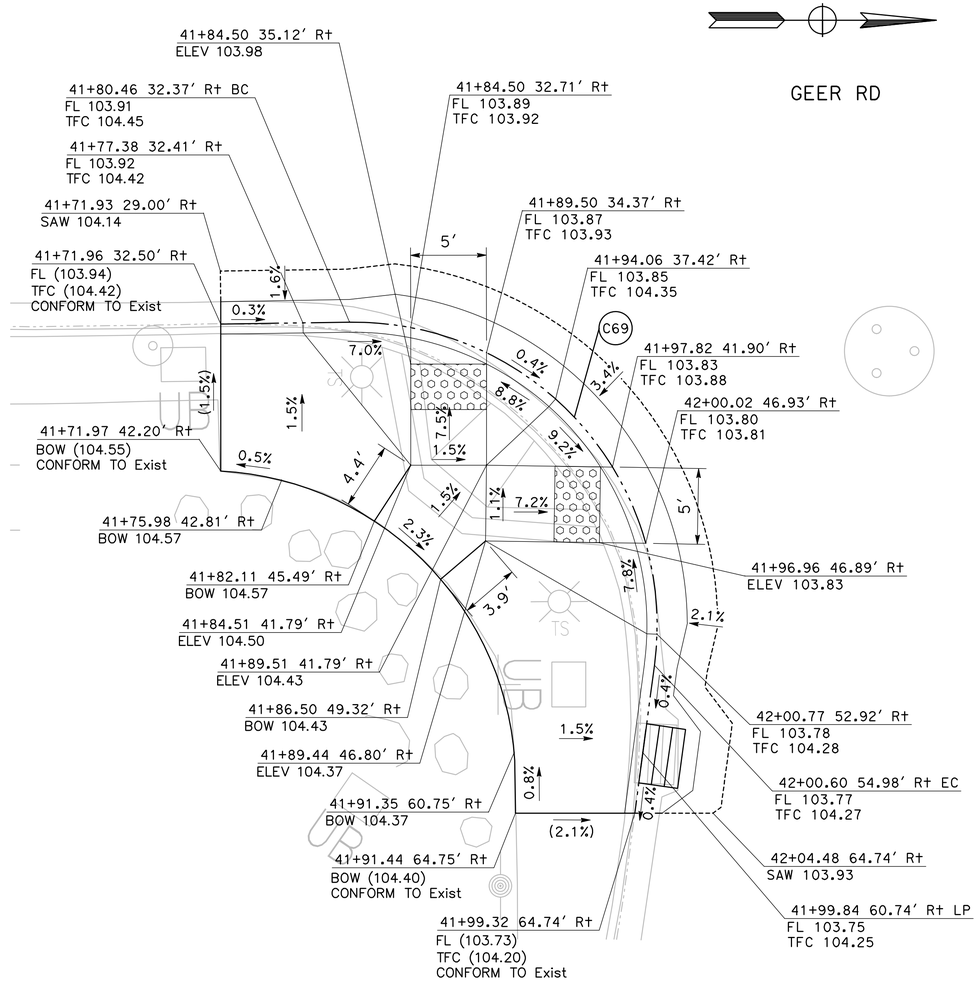
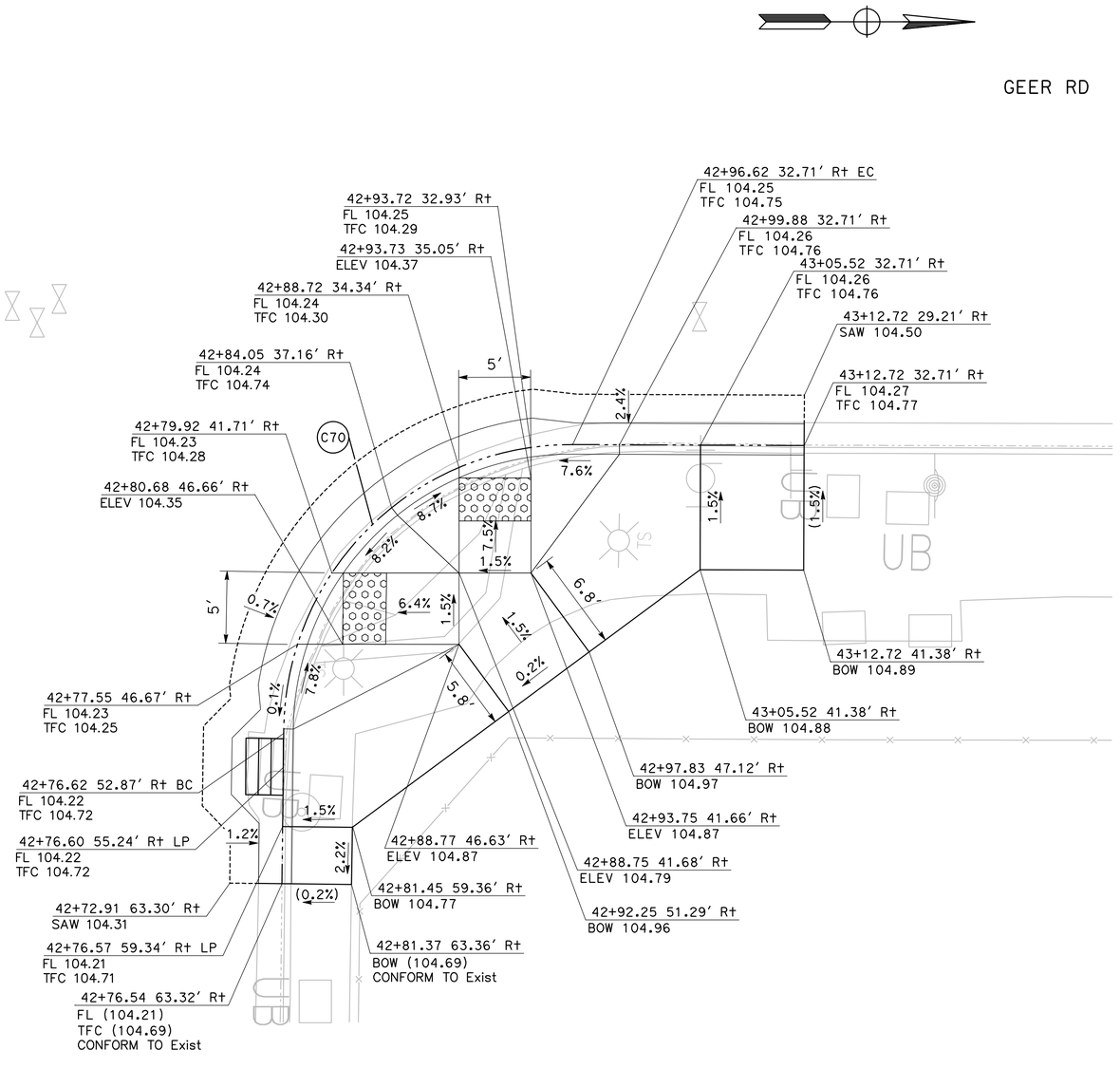
CURVE TABLE				
No. X	R	Δ	T	L
C69	20.00′	98°25′02"	23.18′	34.35′
C70	20.00′	90°20′36"	20.12′	31.54′



33
CD-19

WEST HAWKEYE AVE / GEER RD SW CURB RAMPS

SCALE: 1" = 5′



34
CD-19

WEST HAWKEYE AVE / GEER RD NW CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
5′ 0 5′ 10′

REGISTERED PROFESSIONAL ENGINEER — JORDAN A. MORIEGA — No. C 91655 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

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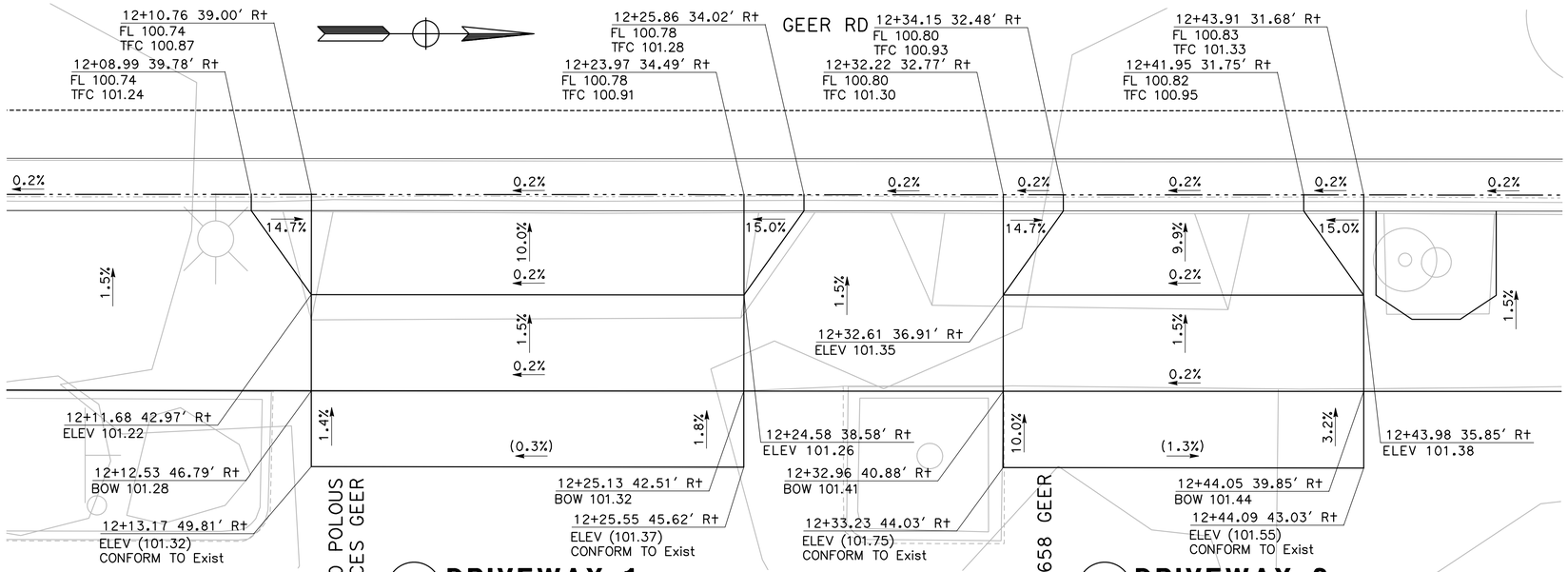
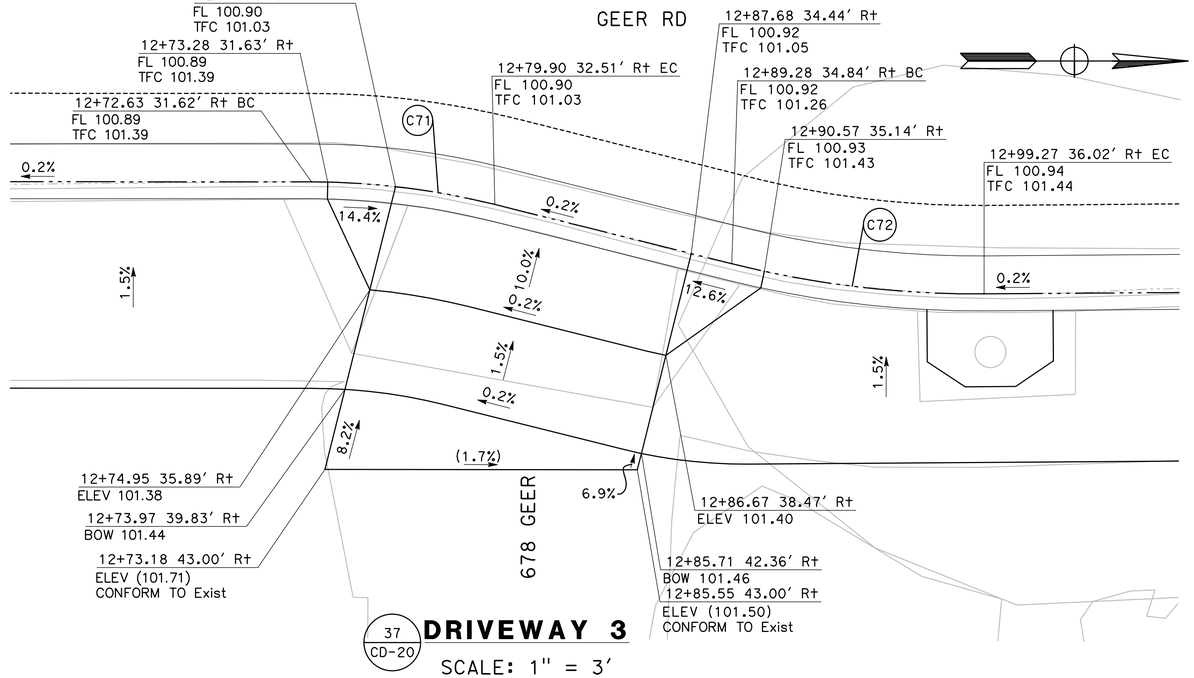
CD-19



CURVE TABLE				
No. X	R	Δ	T	L
C71	30.00'	14°00'31"	3.69'	7.33'
C72	40.00'	14°26'42"	5.07'	10.08'



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — JOSHUA R. HORIEGA — No. C 65581 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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ROADS PROGRAM DIVISION
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SUITE 150
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

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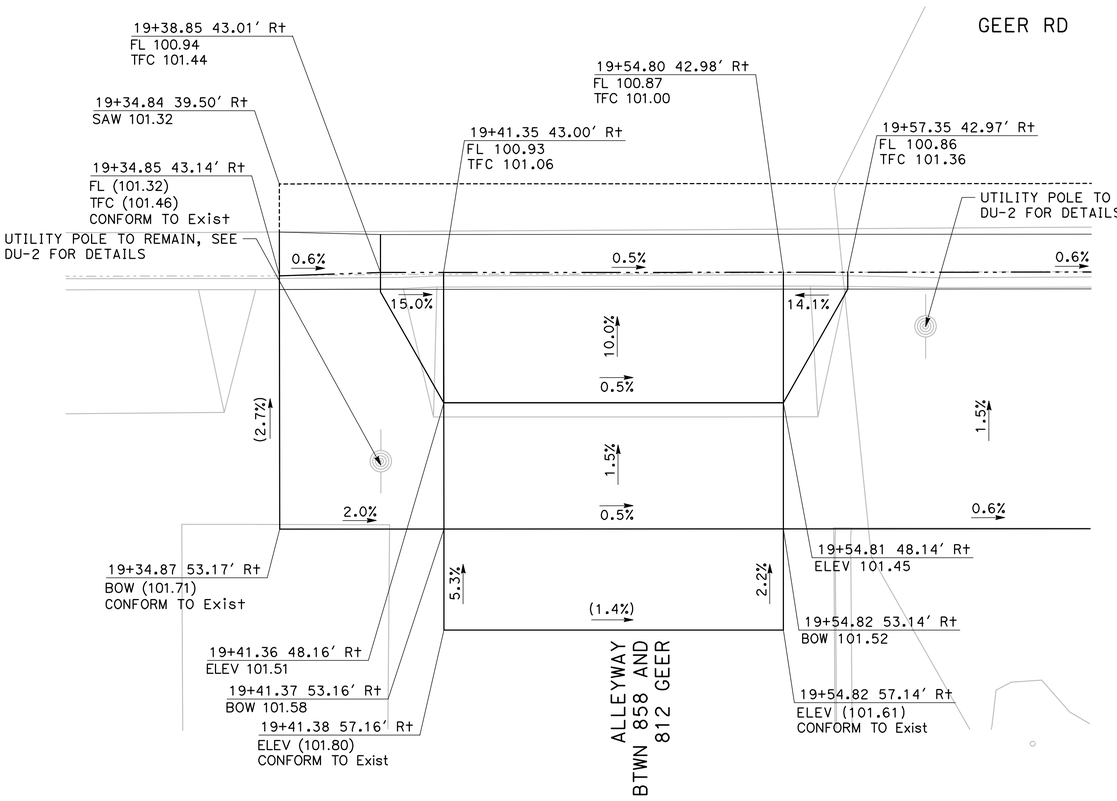
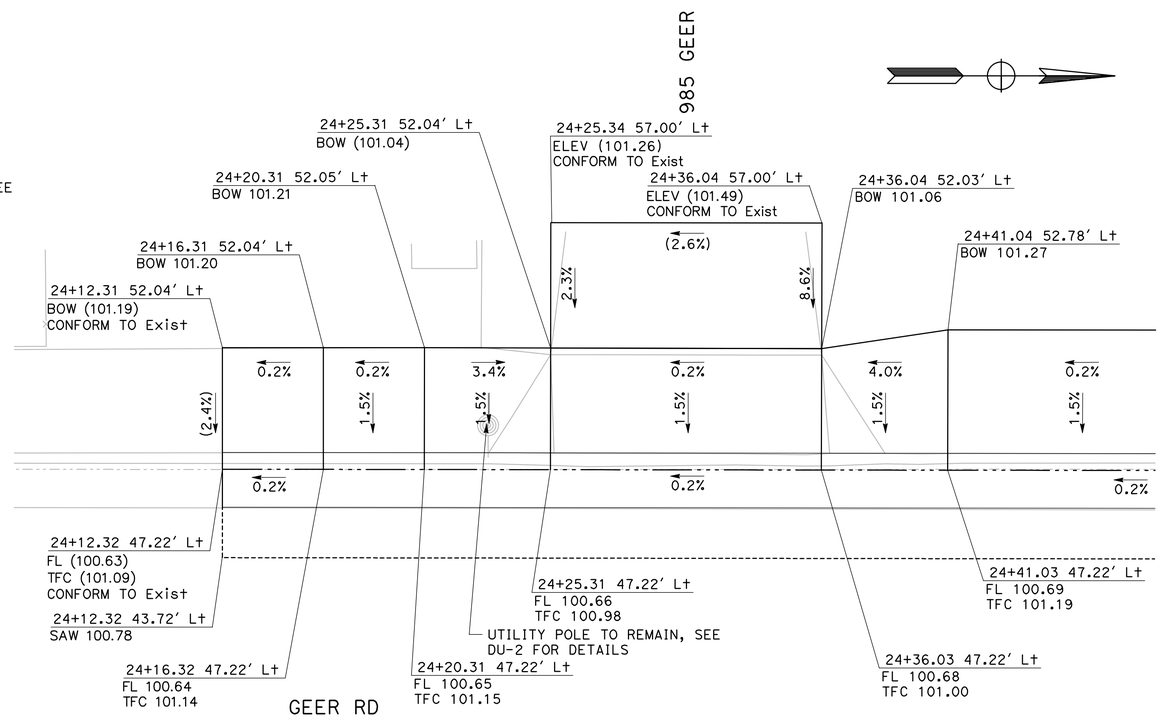


38 / CD-21 **ALLEYWAY**

SCALE: 1" = 3'



39 / CD-21 **DRIVEWAY 4**

SCALE: 1" = 3'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 91455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK — INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

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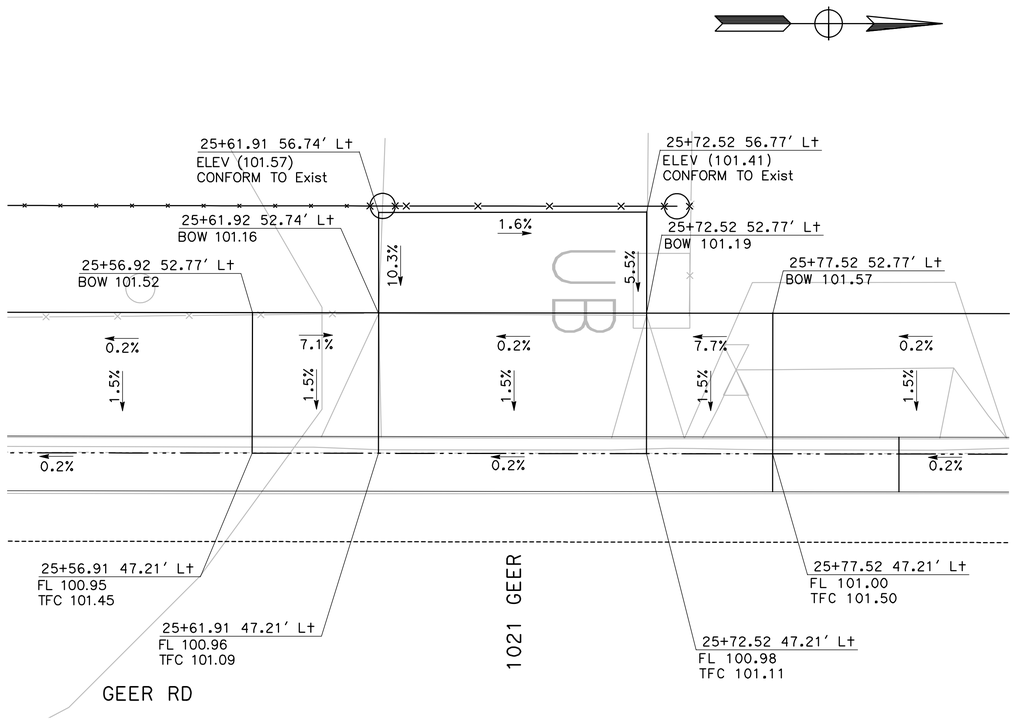
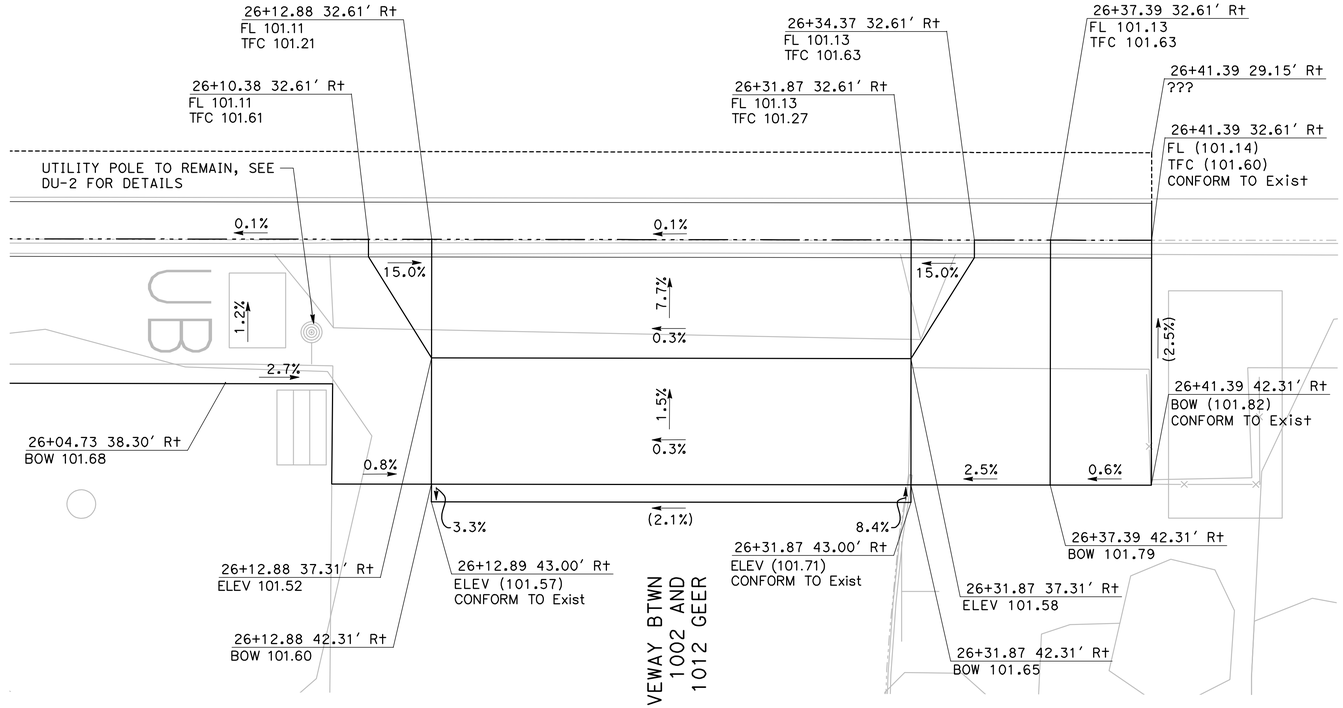


40 CD-22 **DRIVEWAY 5**

SCALE: 1" = 3'

GEER RD



41 CD-22 **DRIVEWAY 6**

SCALE: 1" = 3'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 3 0 3 6

REGISTERED PROFESSIONAL ENGINEER JORGE A. ORTEGA No. 61554 CIVIL STATE OF CALIFORNIA 6/30/22

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
CONSTRUCTION DETAILS

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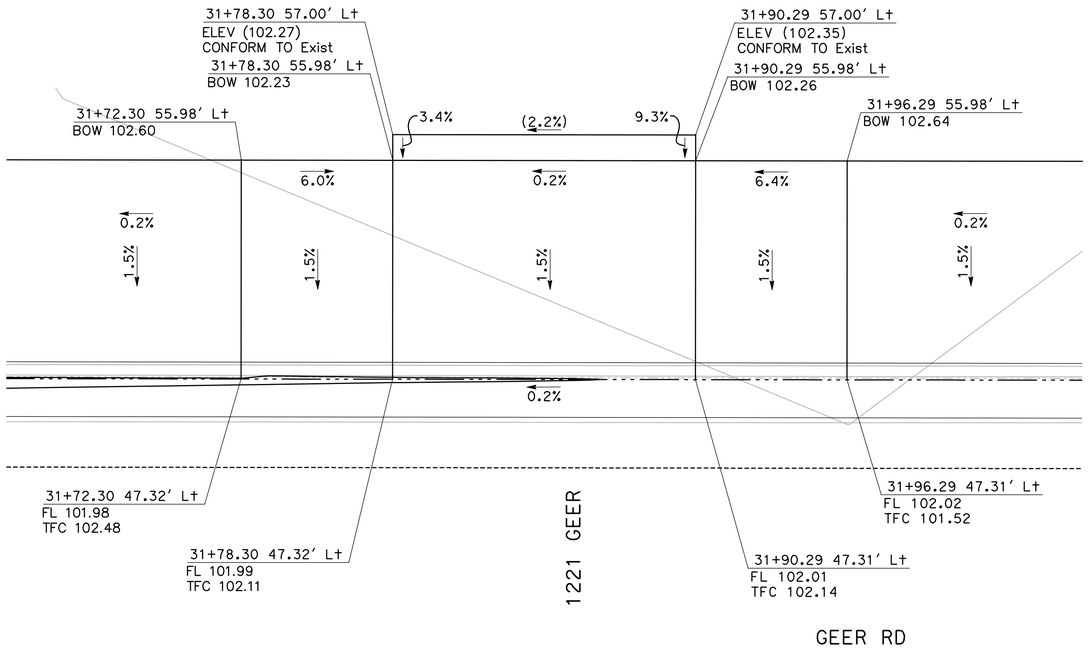
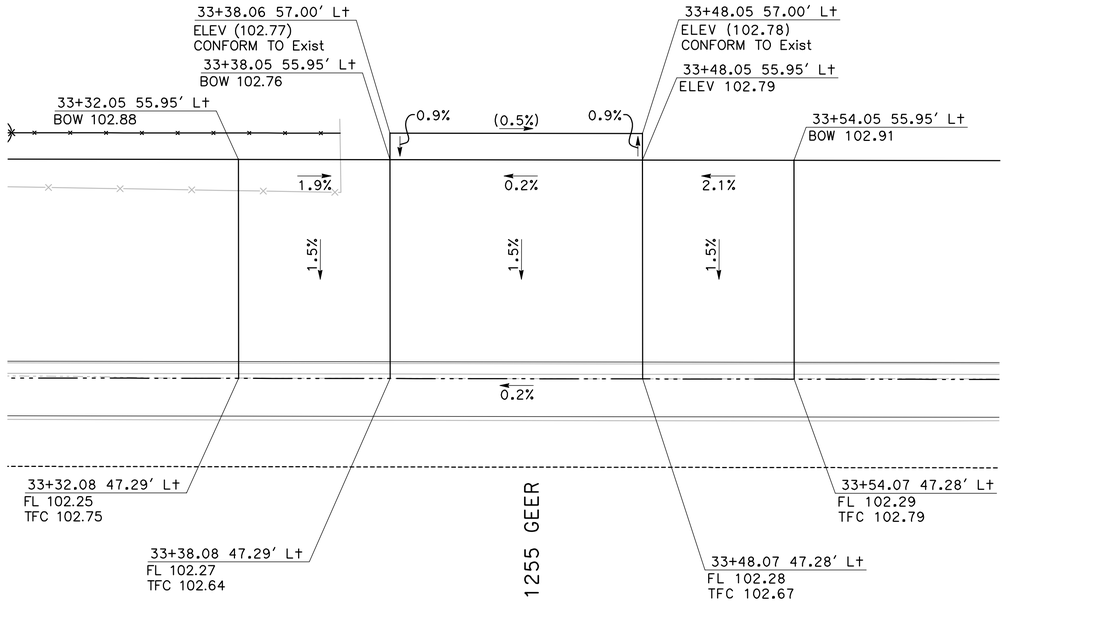
CD-22



42 / CD-23 **DRIVEWAY 7**

SCALE: 1" = 3'



43 / CD-23 **DRIVEWAY 8**

SCALE: 1" = 3'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. TORIEGA — No. 61157 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

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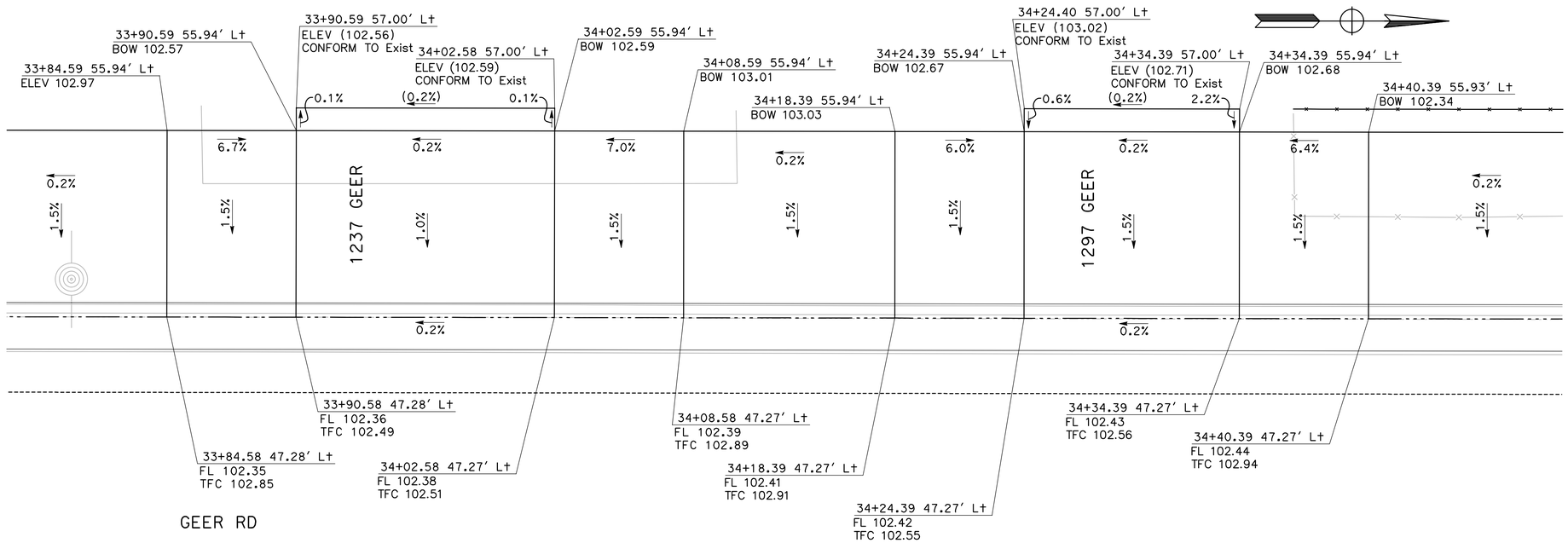


44 CD-24

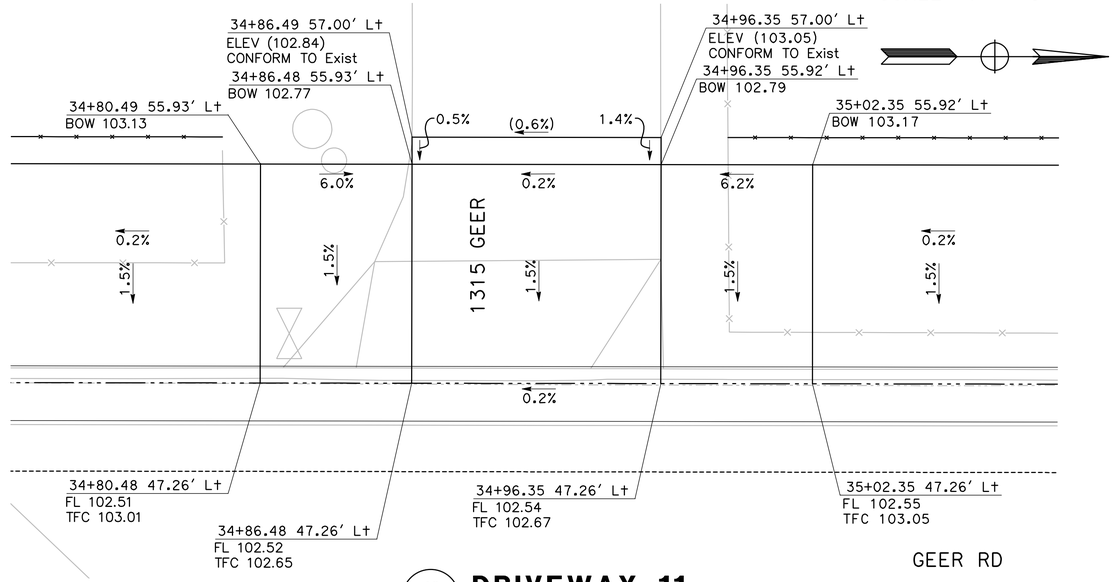
DRIVEWAY 9

SCALE: 1" = 3'

45 CD-24

DRIVEWAY 10

SCALE: 1" = 3'



46 CD-24

DRIVEWAY 11

SCALE: 1" = 3'

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=3'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. MORIEGA
No. 41552
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
CONSTRUCTION DETAILS

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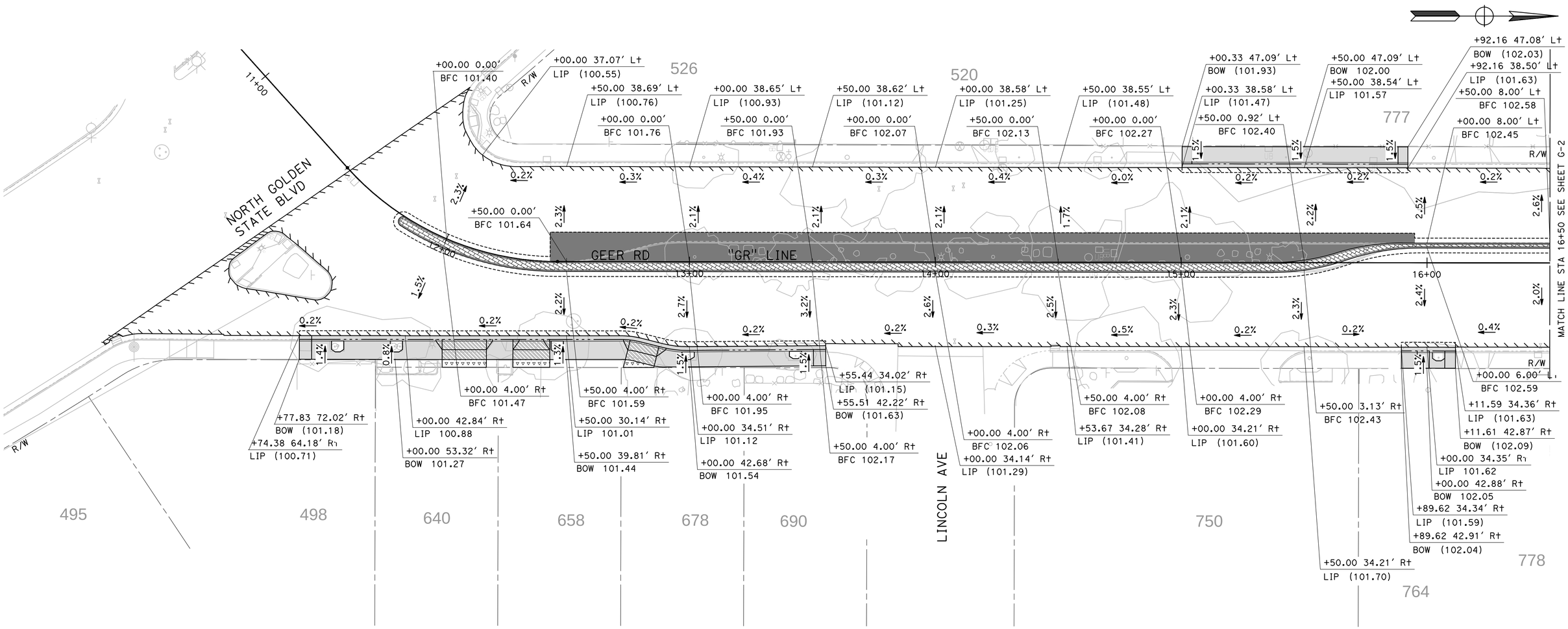
NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. FOR CURB RAMP AND DRIVEWAY APPROACH STATIONS/OFFSETS AND ELEVATIONS, SEE CONSTRUCTION DETAIL SHEETS.
3. FOR SAWCUT AND RECONSTRUCTIONS LIMITS, SEE LAYOUT SHEETS.

LEGEND:

(XX.XX) EXISTING ELEVATION



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JORDAN A. ORTEGA — No. 81556 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

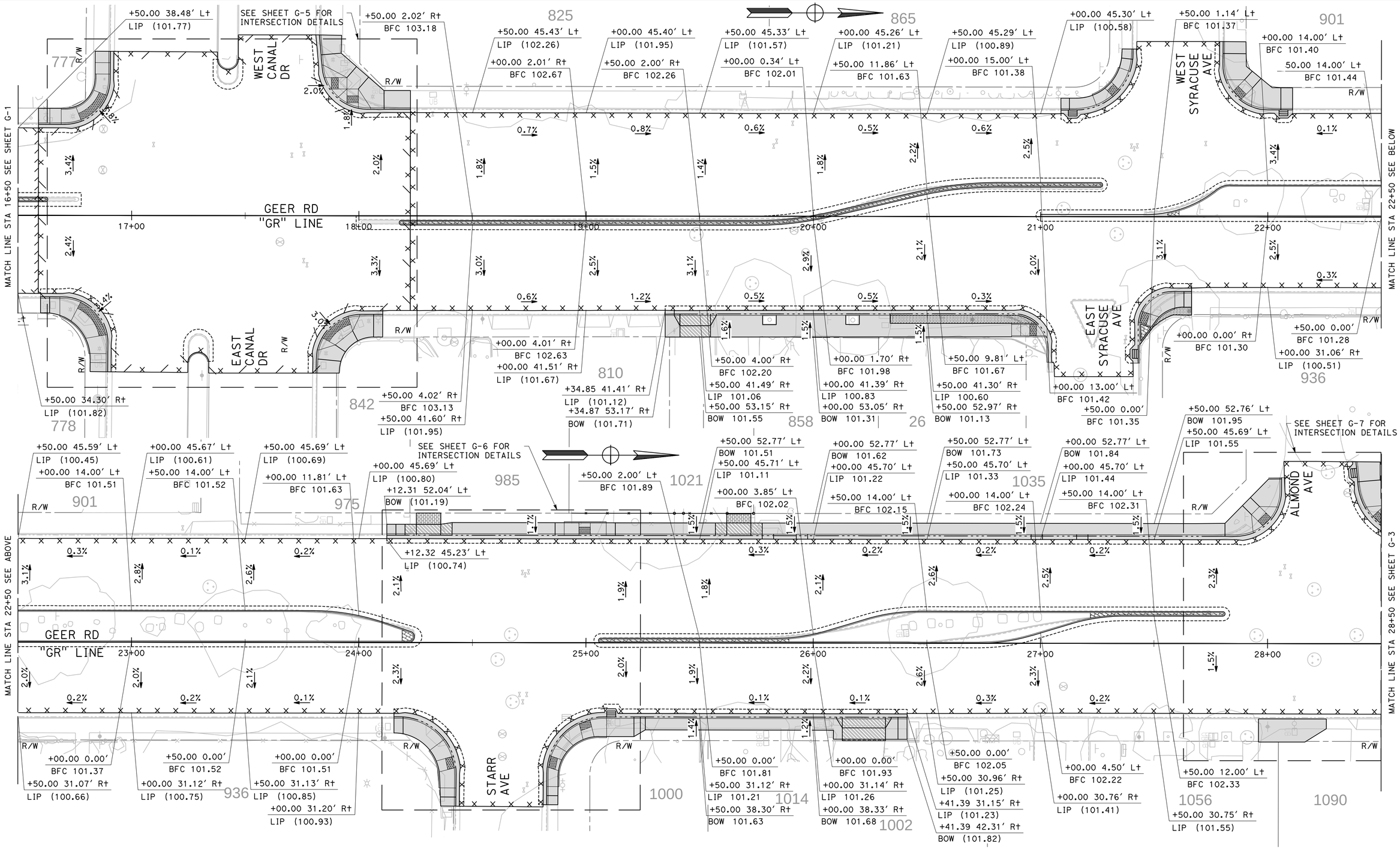
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

Sheet 41 of 256 Sheets

G-1



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ROBLEGA — No. 41555 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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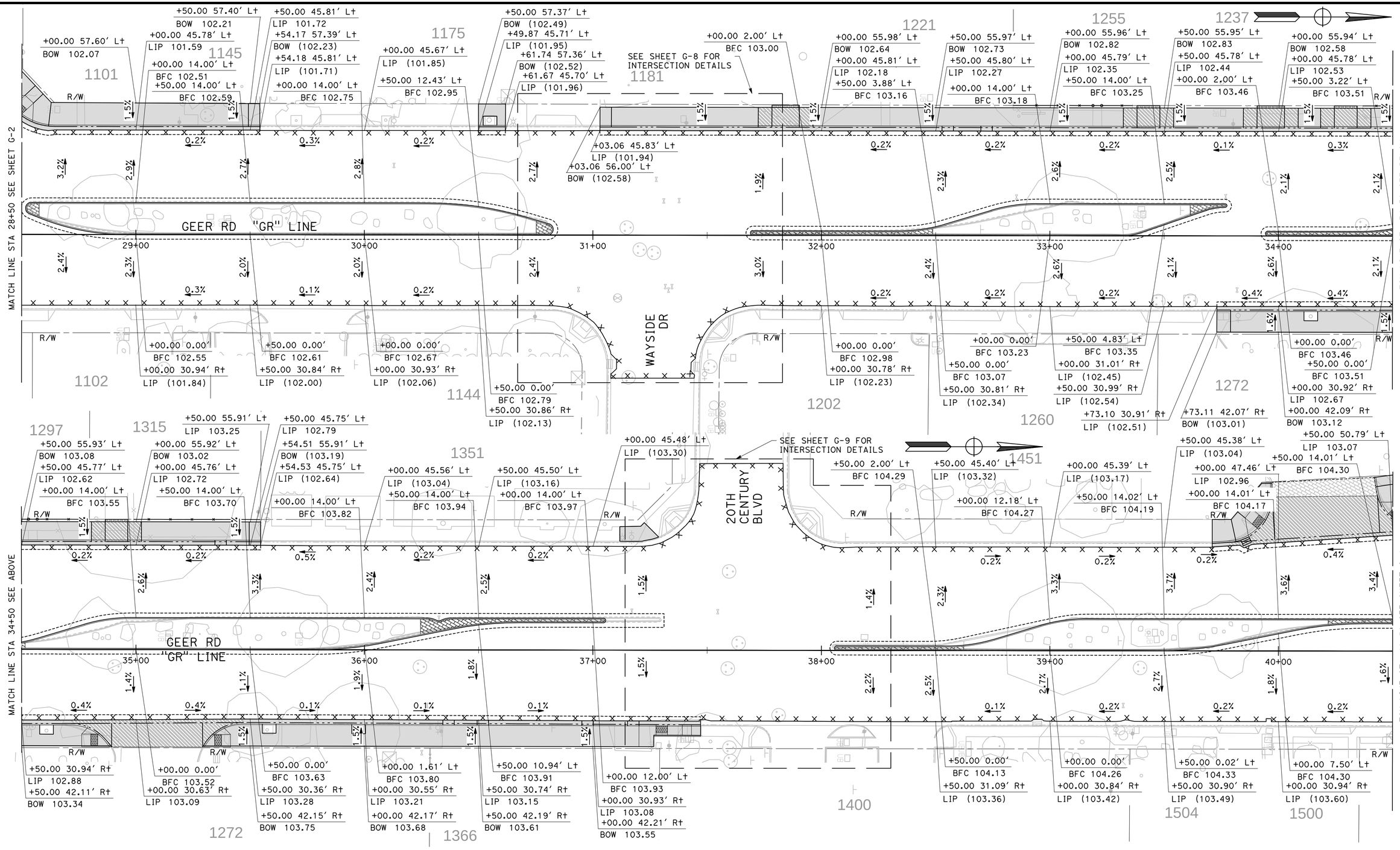
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

Sheet 42 of 256 Sheets

G-2



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDUARDO A. MORIEGA — No. C 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

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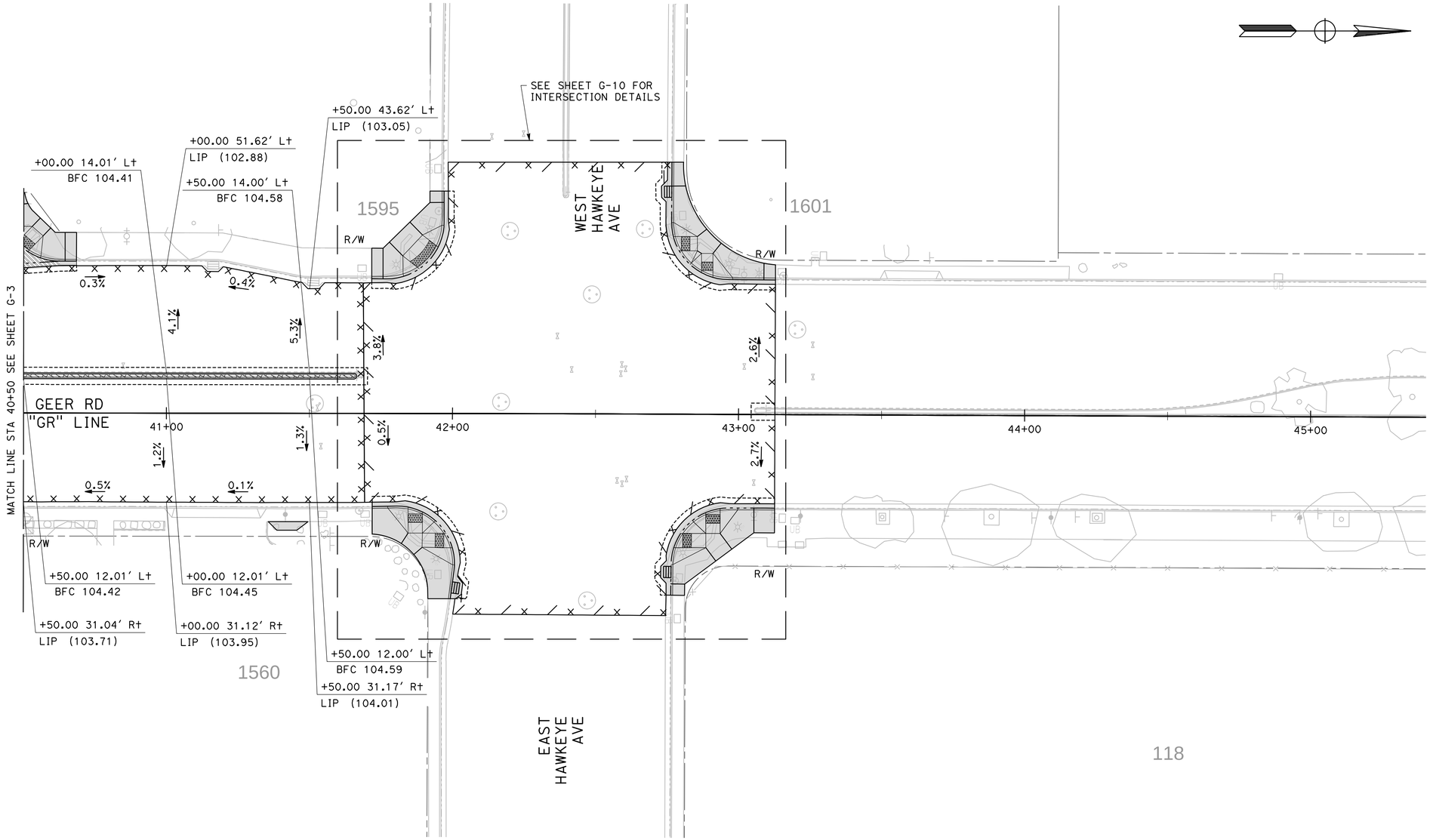
G-3



DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
EDWARD A. MORIEGA
No. 91955
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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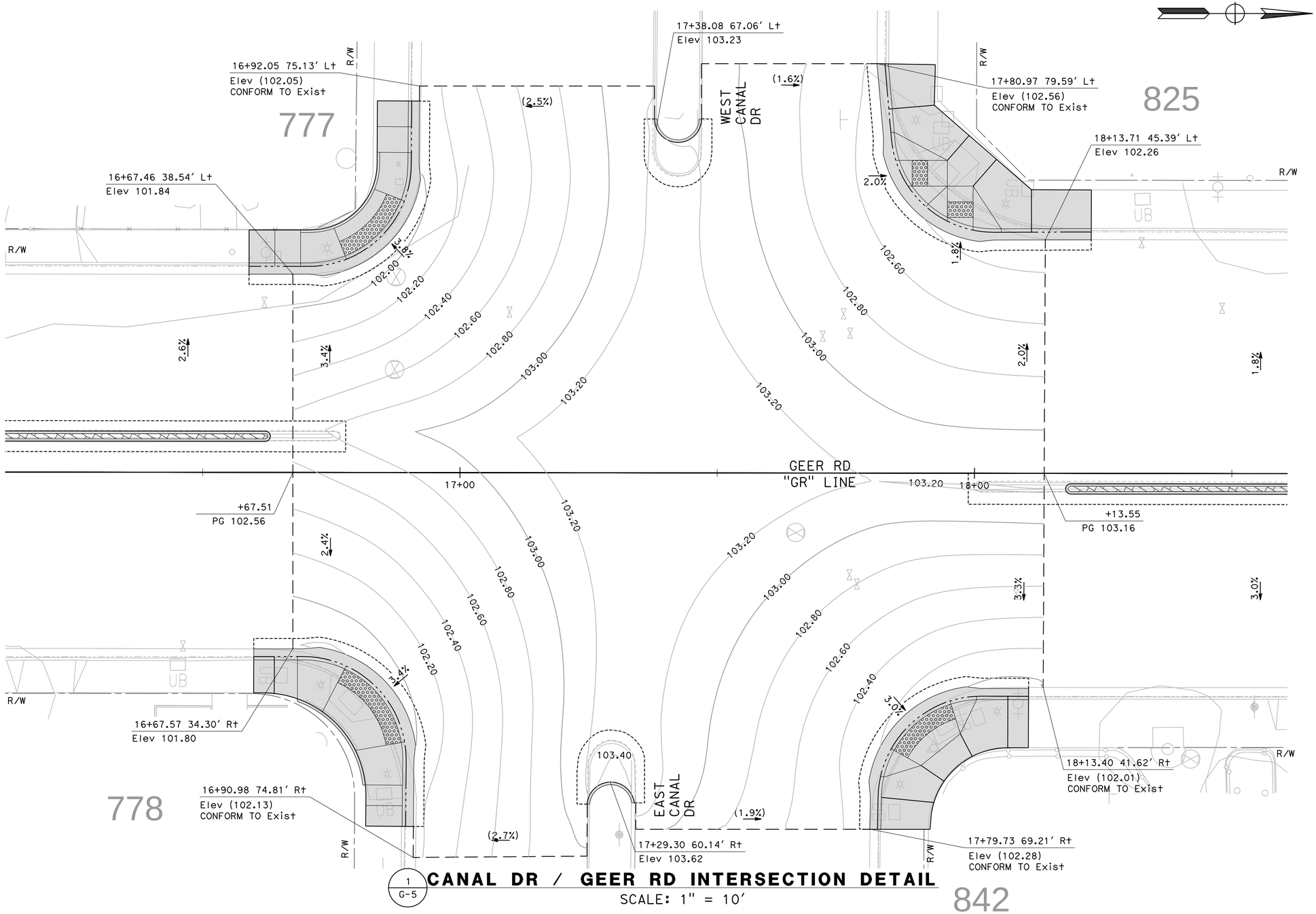
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

Sheet 44 of 256 Sheets

G-4



1 / G-5

CANAL DR / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDWARD R. MORIEGA — No. 41555 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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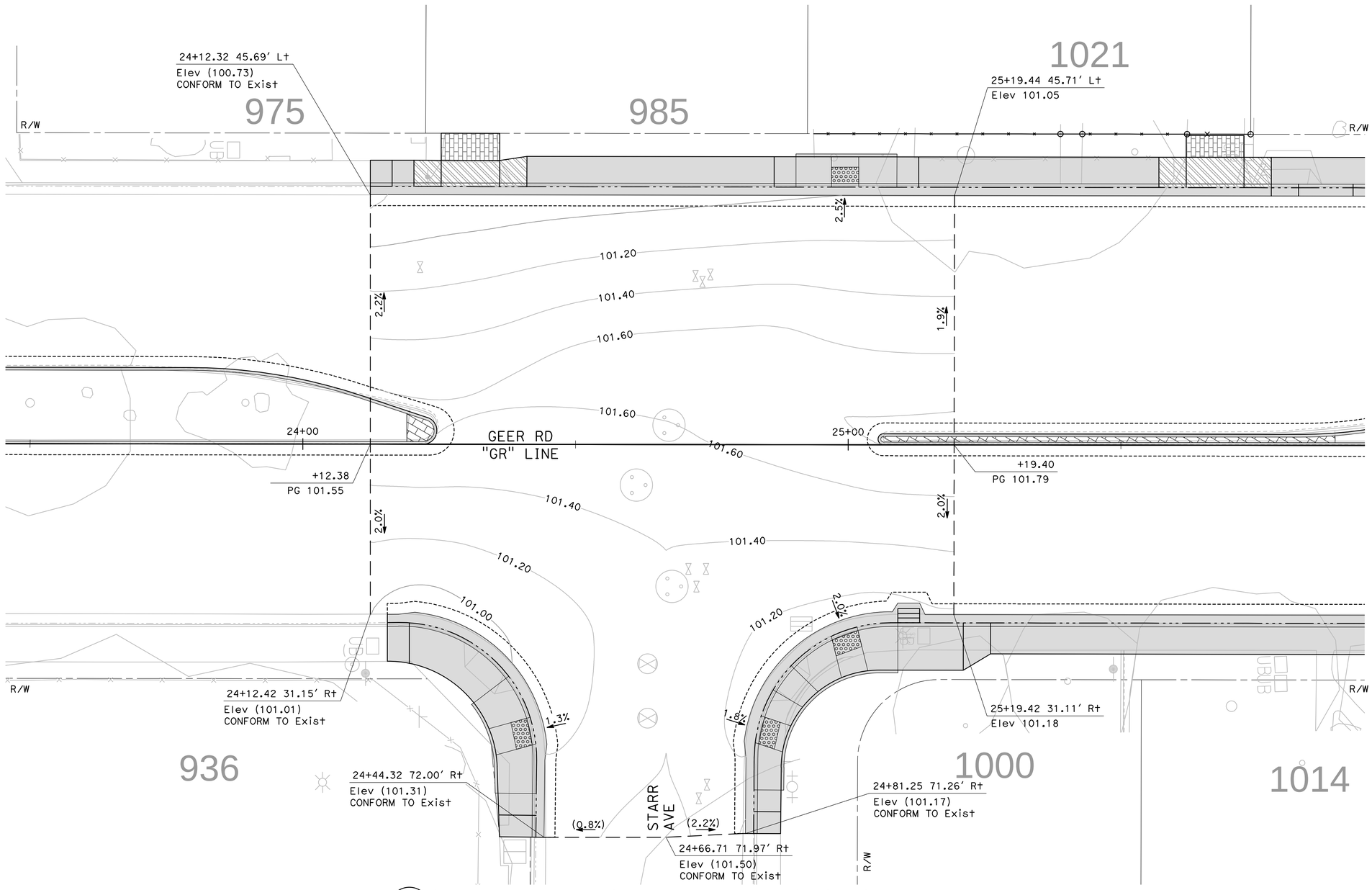
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK — INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

G-5



1 / G-6 **STARR AVE / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JORGE R. ARRIEGA — No. C 55581 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

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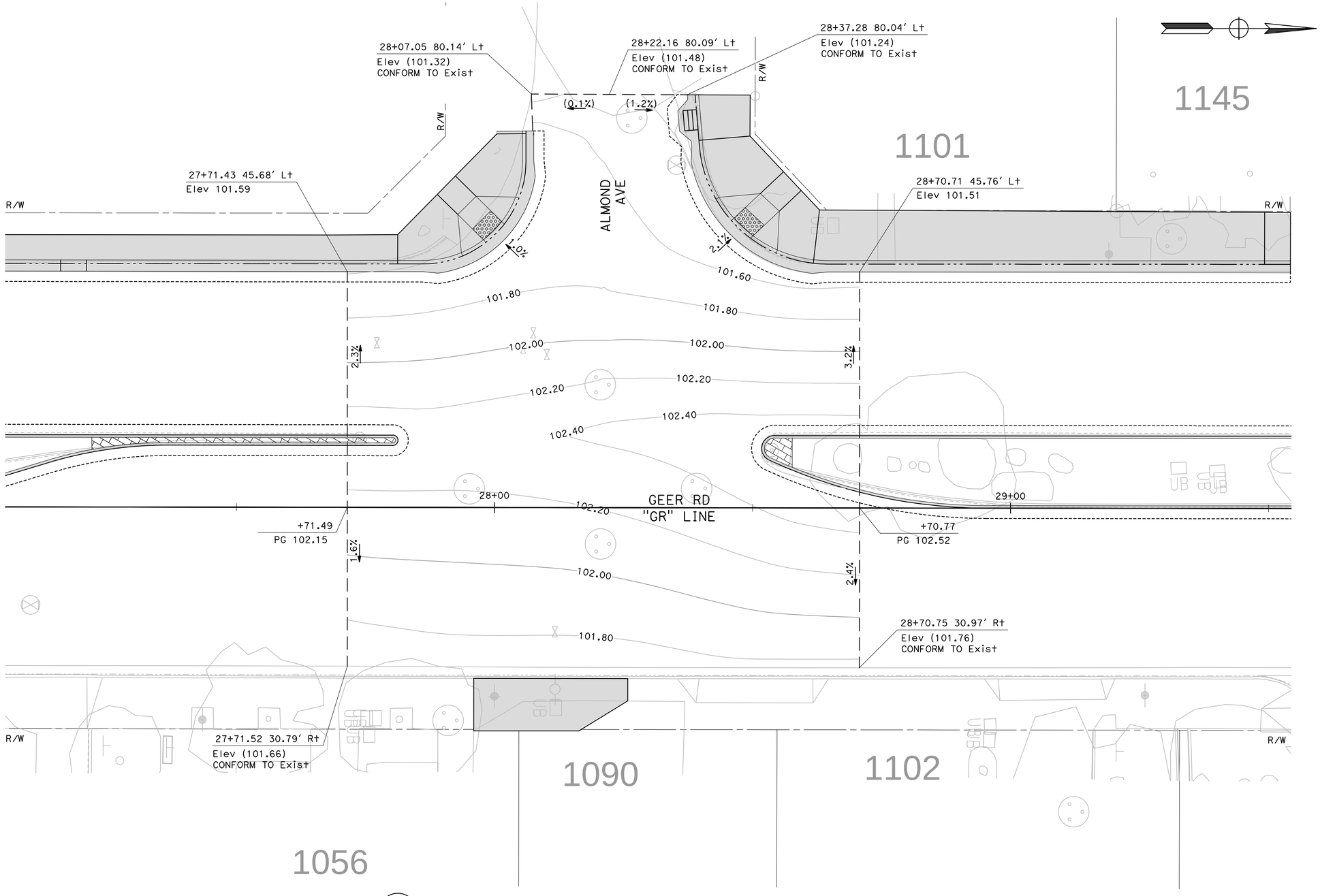
G-6



1
G-7

ALMOND AVE / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. MORIEGA
No. C 41555
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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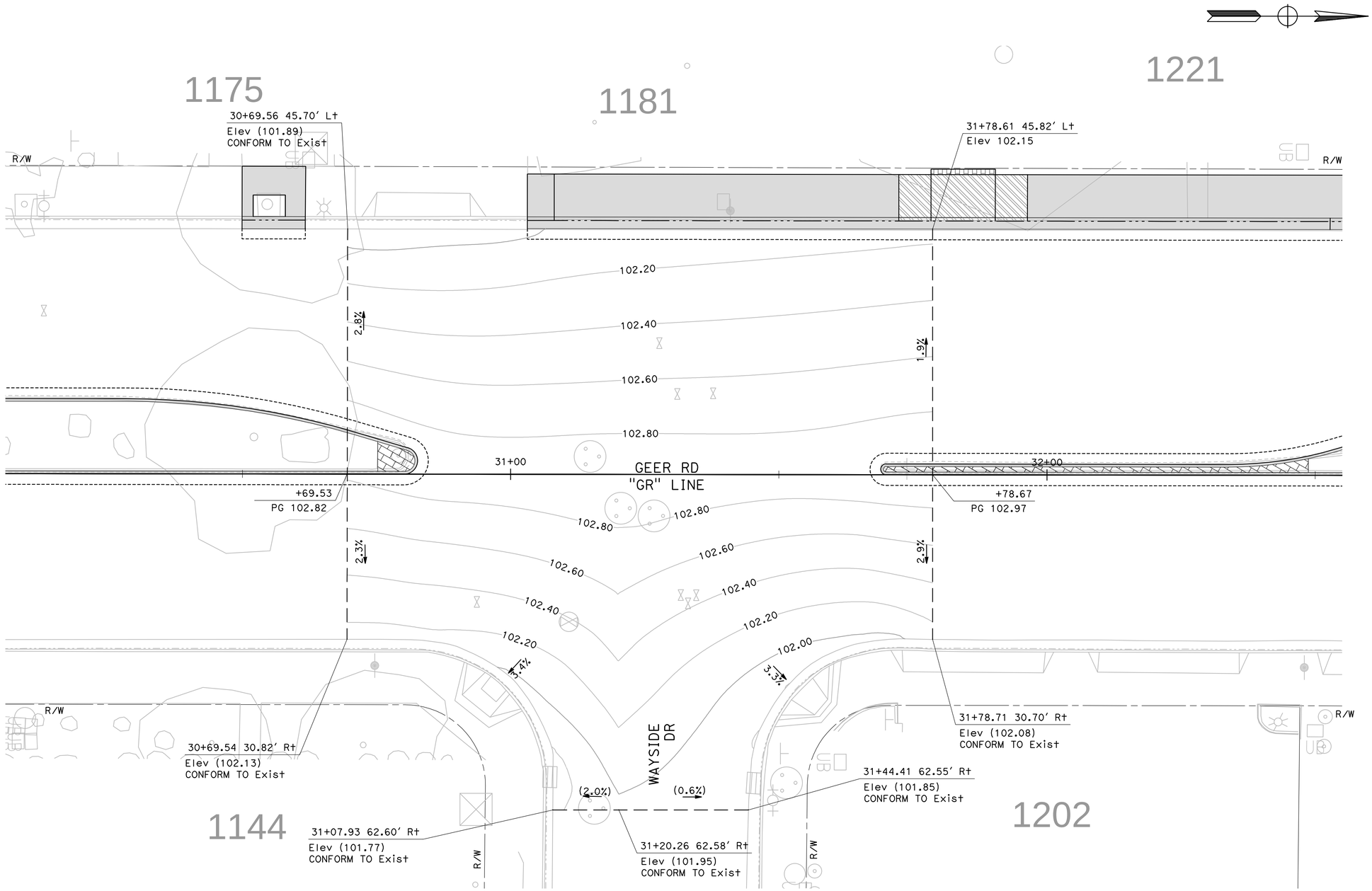
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

G-7



1 / G-8 WAYSIDE DR / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
EDWARD A. MORIEGA
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Exp. 6/30/2027
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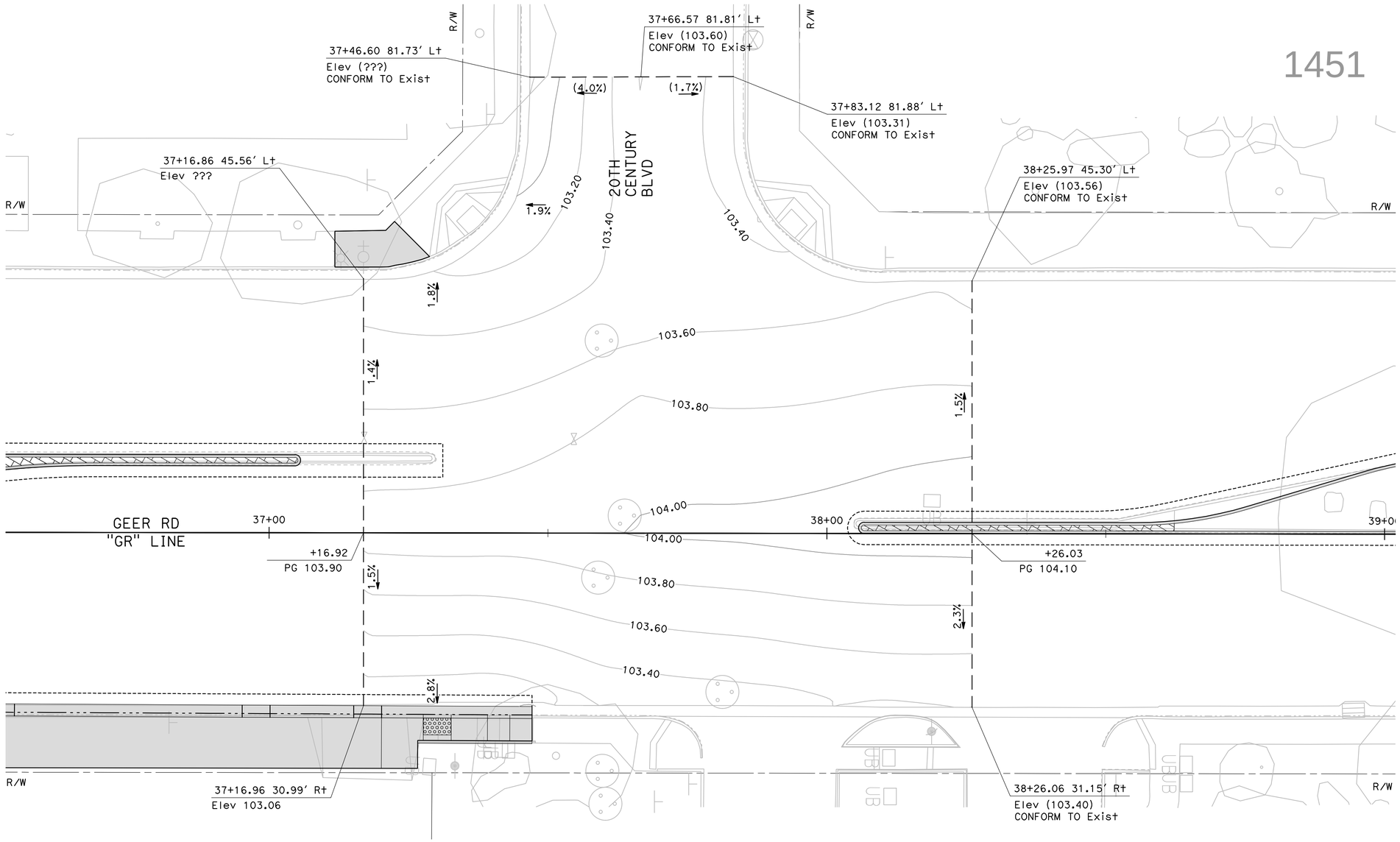
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

Sheet 48 of 256 Sheets

G-8



1451

1366

1 / G-9 **20TH CENTURY BLVD / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ARRIEGA — No. C 61 [illegible] — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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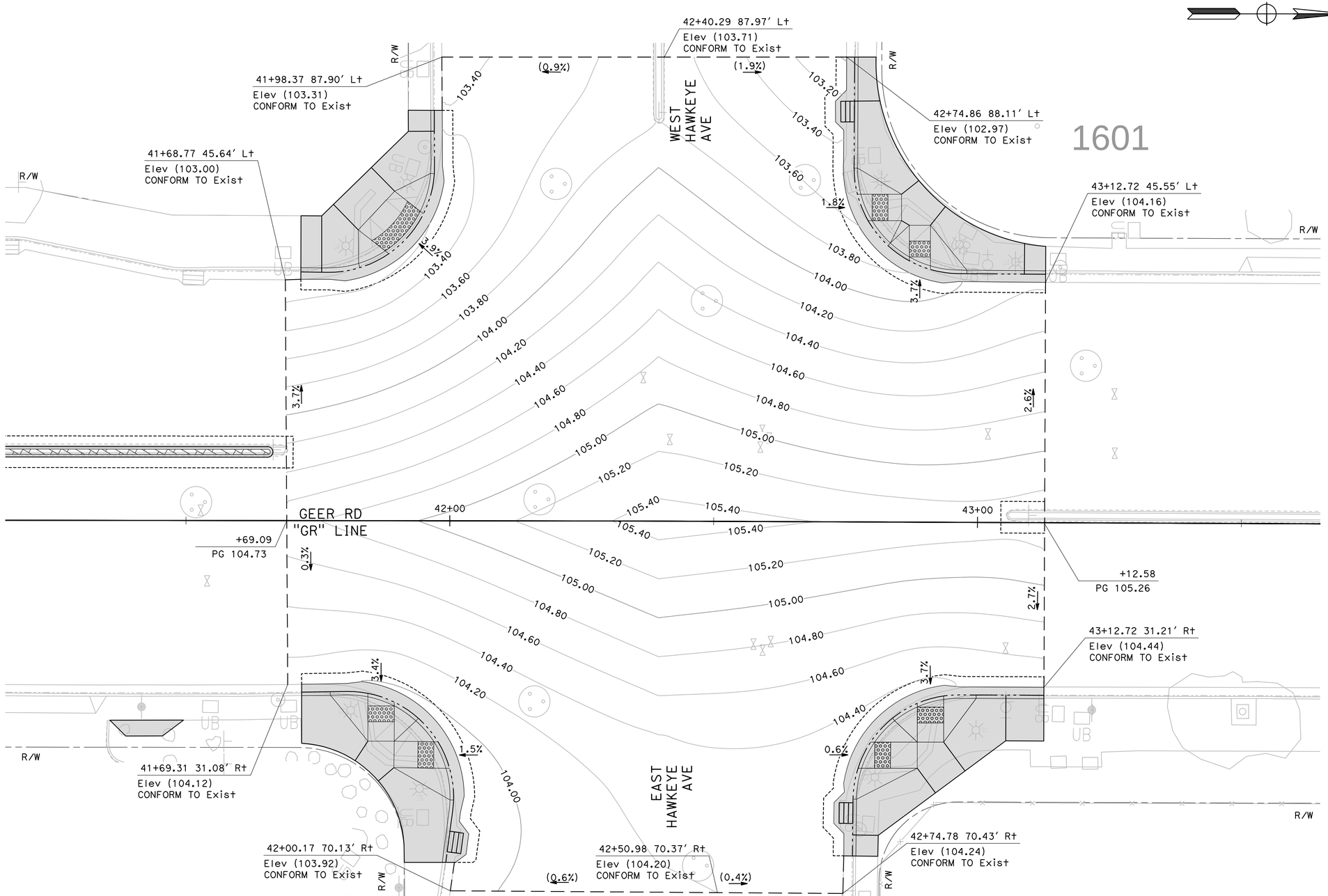
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
GRADING PLAN

G-9



1 / G-10 **WEST HAWKEYE AVE / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 81554 — CIVIL — STATE OF CALIFORNIA — 6/13/25

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
GRADING PLAN

Sheet 50 of 256 Sheets

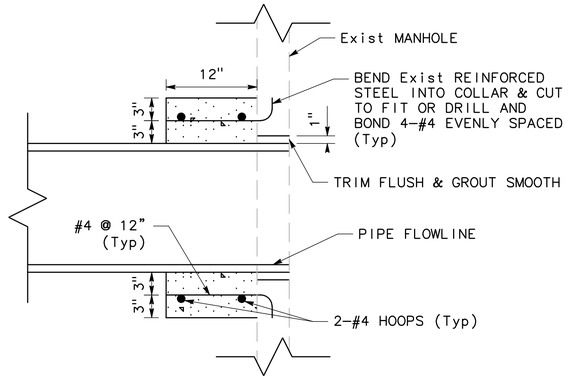
G-10

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
3. ALL STORM DRAIN PIPELINES SHALL BE INSPECTED AND TESTED PER SECTION 16-26 THRU 16-33 OF THE CITY OF TURLOCK STANDARDS.
4. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS, SURFACE FEATURE SURVEYS, AND LIMITED TEST HOLES. HORIZONTAL AND VERTICAL LOCATIONS ARE APPROXIMATE UNLESS EXPLICITLY LABELED "TEST HOLE VERIFIED." CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
5. LATERALS ARE ANTICIPATED TO BE SHALLOWER THAN DISTRIBUTION MAINS ALONG GEER ROAD. DO NOT PERFORM FDR WHERE EXISTING UTILITIES ARE LOCATED WITHIN 12 INCHES OF THE PLANNED DEPTH OF DISTURBANCE OR MAY BE IMPACTED BY FDR OPERATIONS. CONTRACTOR SHALL VERIFY UTILITY DEPTHS PRIOR TO WORK. WHERE CONFLICTS EXIST, OMIT FDR AND CONSTRUCT "SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION" PER THE SPECIFICATIONS AND DETAIL 2 ON THIS SHEET. NOTIFY THE ENGINEER PRIOR TO COMMENCING WORK IN CONFLICT AREAS.
6. IT IS POSSIBLE THAT NOT ALL SERVICE LATERALS WERE SHOWN ON UTILITY MAPPING PROVIDED BY UTILITY OWNERS. CONTRACTOR SHOULD ASSUME ALL PROPERTIES ALONG THE CORRIDOR HAVE ONE GAS AND WATER LATERAL SERVICING PROPERTIES ALONG THE CORRIDOR. CONTRACTOR TO FIELD VERIFY APPROXIMATE LOCATIONS BY LOCATING METER BOXES AND VALVES WHILE DOING PRELIMINARY SITE INVESTIGATIONS AND USA MARKINGS.

LEGEND:

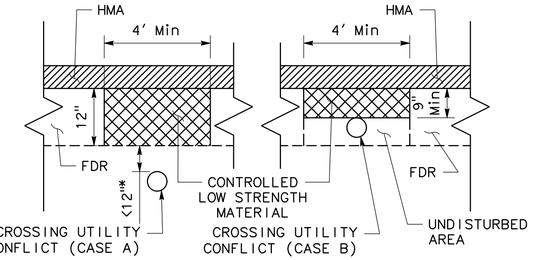
- Exist STORM DRAIN (CITY OF TURLOCK)
- Exist WATER (CITY OF TURLOCK)
- Exist SEWER (CITY OF TURLOCK)
- Exist GAS (PG&E)
- Exist OVERHEAD ELECTRICAL (TID)
- Exist OVERHEAD TELEPHONE (AT&T)
- Exist FIBER OPTIC (CVIN)
- Exist ELECTRICAL (TID)
- Exist ELECTRICAL (CITY OF TURLOCK)
- Exist JOINT OVERHEAD: TELECOM (CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- Exist JOINT OVERHEAD: TELECOM (AT&T, CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- Exist TELECOM (AT&T)
- Exist TELECOM (CHARTER COMMUNICATIONS)
- DRAINAGE SYSTEM (SEE DRAINAGE PROFILE SHEETS)
- POTHOLE LOCATION
- POTHOLE NUMBER
- SHALLOW UTILITY AREA - SEE SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL



1 DU-1

STORM DRAIN CONNECTION TO EXISTING MANHOLE DETAIL

NO SCALE



*FOR GAS TRANSMISSION LINES, CLSM DETAIL WOULD APPLY WITHIN 15"

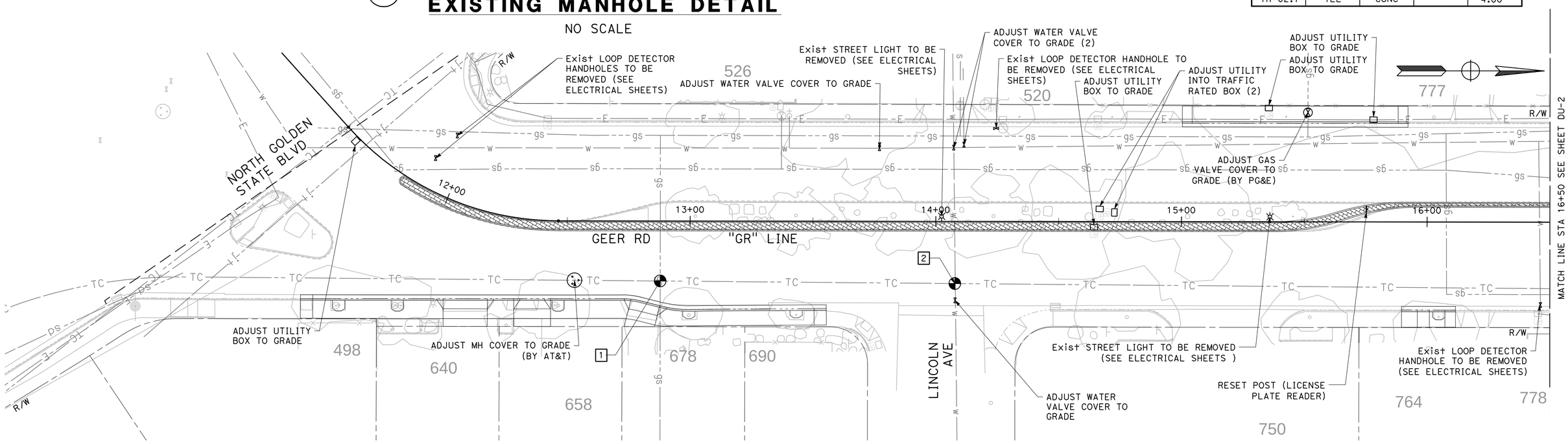
2 DU-1

SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL

NO SCALE

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-01	GS	PL	0.75"	3.10'
TH-01.1	TEL	CONC	-	4.00'
TH-02	WM	AC	6.00"	2.40'
TH-02.1	TEL	CONC	-	4.00'



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDUARDO A. MORIEGA — No. E-11554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
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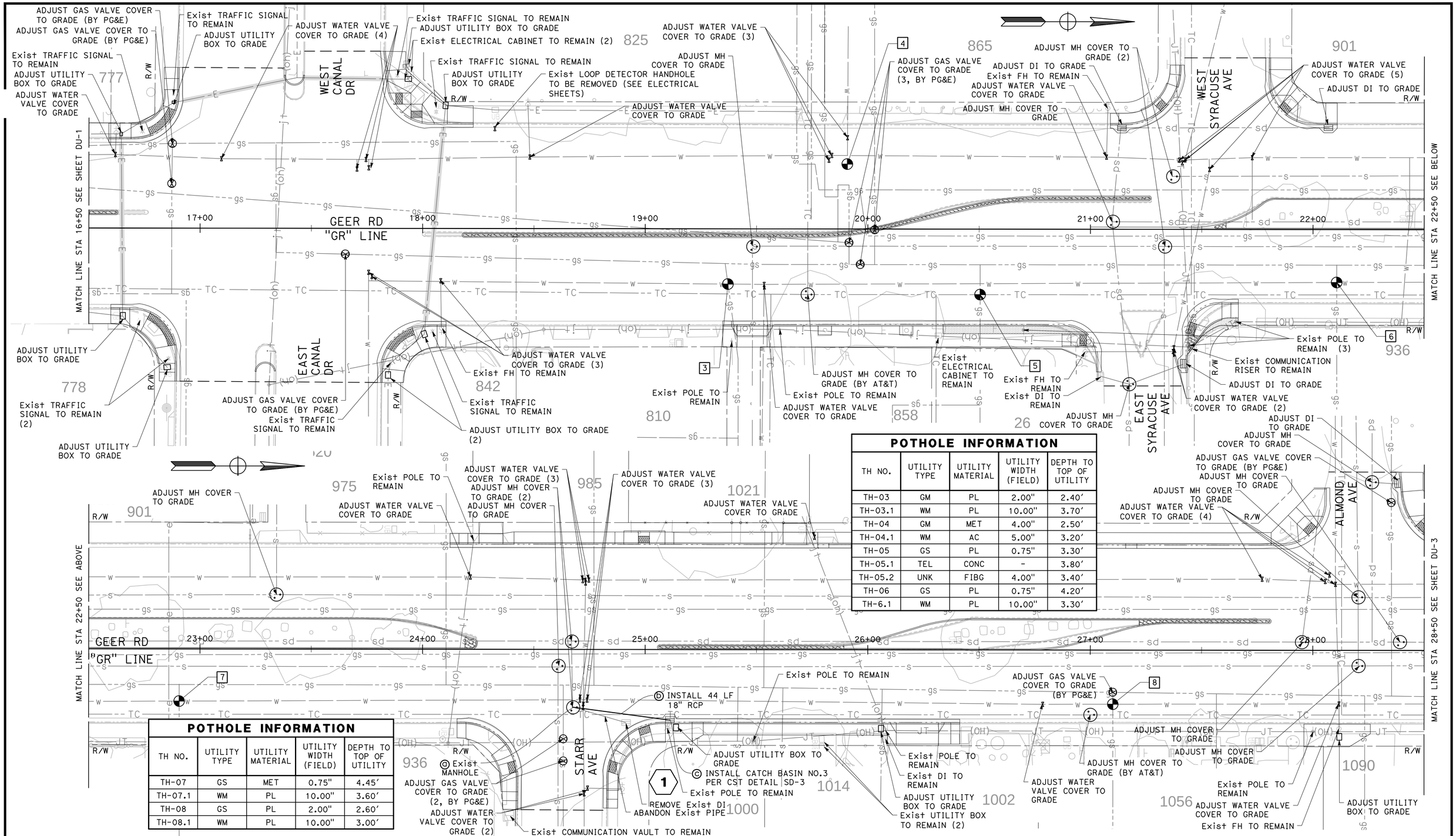
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DRAINAGE AND UTILITIES

DU-1



POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-03	GM	PL	2.00"	2.40′
TH-03.1	WM	PL	10.00"	3.70′
TH-04	GM	MET	4.00"	2.50′
TH-04.1	WM	AC	5.00"	3.20′
TH-05	GS	PL	0.75"	3.30′
TH-05.1	TEL	CONC	-	3.80′
TH-05.2	UNK	FIBG	4.00"	3.40′
TH-06	GS	PL	0.75"	4.20′
TH-6.1	WM	PL	10.00"	3.30′

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-07	GS	MET	0.75"	4.45′
TH-07.1	WM	PL	10.00"	3.60′
TH-08	GS	PL	2.00"	2.60′
TH-08.1	WM	PL	10.00"	3.00′

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20′
DATE: 6/08/2026
JOB NO.: 23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ROMERO — No. 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DRAINAGE AND UTILITIES

Sheet 52 of 256 Sheets

DU-2

MATCH LINE STA 28+50 SEE SHEET DU-2

MATCH LINE STA 34+50 SEE BELOW

MATCH LINE STA 34+50 SEE ABOVE

MATCH LINE STA 40+50 SEE SHEET DU-4

GEER RD "GR" LINE

29+00 30+00 31+00 32+00 33+00 34+00

35+00 36+00 37+00 38+00 39+00 40+00

WAYSIDE DR

20TH CENTURY BLVD

1101 1145 1175 1181 1221 1237 1255

1102 1144 1202 1260 1272

1297 1315 1351 1366 1400 1451 1500 1504

Exist COMMUNICATION RISER TO REMAIN

Exist POLE TO REMAIN

ADJUST UTILITY BOX TO GRADE

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE

ADJUST MH COVER TO GRADE (2)

ADJUST SEWER VALVE COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE (2)

ADJUST WATER VALVE COVER TO GRADE (3)

ADJUST GAS VALVE COVER TO GRADE (BY PG&E)

Exist DI TO REMAIN

Exist FH TO REMAIN

ADJUST MH COVER TO GRADE (2, BY AT&T)

ADJUST UTILITY VAULT TO GRADE (BY AT&T)

Exist BOLLARD TO REMAIN (2)

Exist COMMUNICATION CABINET TO REMAIN

ADJUST WATER VALVE COVER TO GRADE (2)

Exist WATER VALVE COVER TO REMAIN (2)

ADJUST MH COVER TO GRADE (BY AT&T)

ADJUST UTILITY BOX TO GRADE

Exist DI TO REMAIN

ADJUST DI TO GRADE

R/W

9 10 11 12

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-09	GS	MET	1.00"	1.90′
TH-09.1	WM	PL	10.00"	2.50′
TH-10	WM	PL	10.00"	2.60′

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-11	GS	PL	0.75"	4.15′
TH-11.1	WM	PL	10.00"	2.90′
TH-12	TEL	CONC	-	2.70′
TH-12.1	WM	PL	-	6.00′

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER THOMAS A. MORIEGA No. C 61556 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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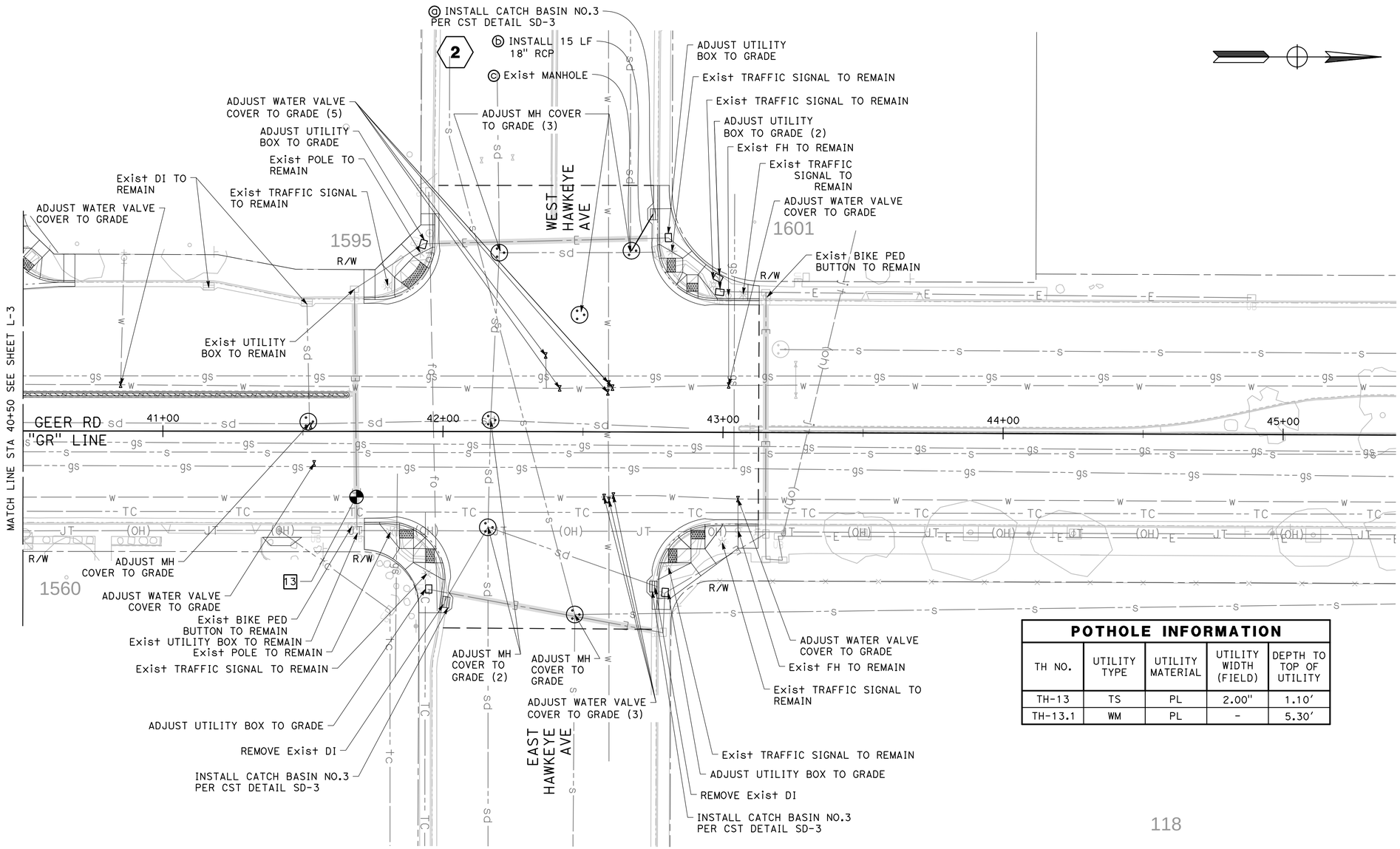
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
DRAINAGE AND UTILITIES

Sheet 53 of 256 Sheets

DU-3



POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-13	TS	PL	2.00"	1.10′
TH-13.1	WM	PL	-	5.30′

DESIGNED BY: F. SAIF
DRAWN BY: A. SILVA
CHECKED BY: J. HERNANADEZ
SCALE: 1"=20′
DATE: 6/08/2026
JOB NO.: 23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. ORTEGA — No. 81556 — CIVIL — STATE OF CALIFORNIA

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SUITE 150
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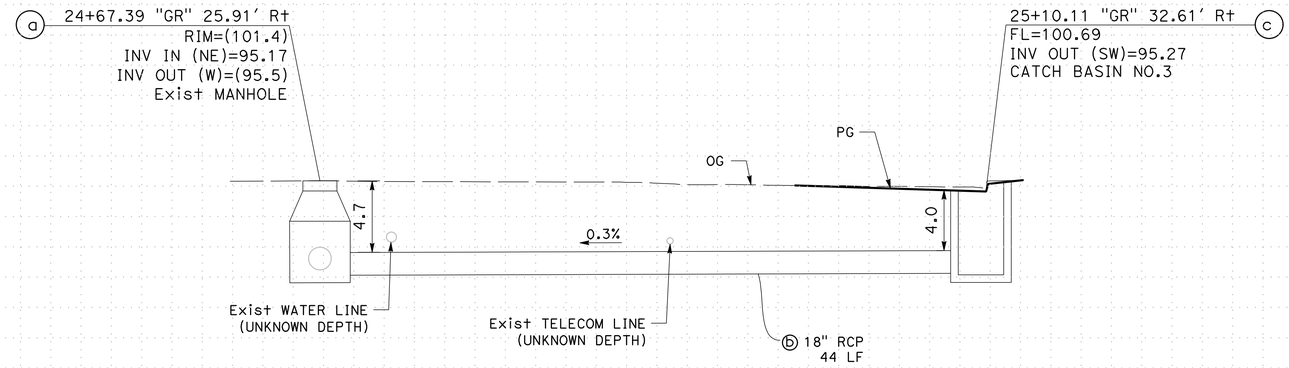
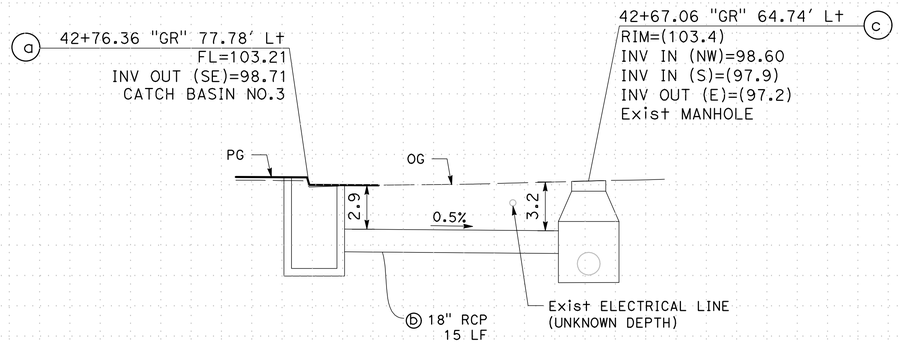
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
DRAINAGE AND UTILITIES

DU-4



DRAINAGE SYSTEM 1
PROFILE

SCALE= H:1" = 5'
V:1" = 5'



DRAINAGE SYSTEM 2
PROFILE

SCALE= H:1" = 5'
V:1" = 5'

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 84558 — CIVIL — STATE OF CALIFORNIA — 6/30/27

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
DRAINAGE PROFILES

Sheet 55 of 256 Sheets

DP-1

TRAFFIC CONTROL GENERAL NOTES:

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 601-2 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CONTACT THE PUBLIC WORKS TRAFFIC CONTROL SECTION AT (209) 668-5520 TO OBTAIN A PERMIT. THE CONTRACTOR MUST SUBMIT A COMPLETED TRAFFIC CONTROL PERMIT FORM A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN WORK WILL AFFECT A TRAFFIC SIGNAL.

2. STANDARDS: THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO EACH OF THE FOLLOWING MANUALS:

EDITION	DESCRIPTION
2014	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), REV. 9
2016	CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS
2024	CALTRANS STANDARD PLANS

3. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY RELEVANT AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL.

4. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING SIGNS FORTY-EIGHT (48) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.

6. EXCAVATIONS: EXCEPT AS OTHERWISE SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY, AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED, UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC, WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS OPEN TO THE APPROPRIATE TRAFFIC EXCEPT AS OTHERWISE SHOWN ON THE PLANS.

7. RESTORATION OF TRAFFIC CONTROL DEVICES: THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

8. TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION FOR A PERIOD OF FIVE (5) OR MORE DAYS. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL INSTALLATION AND REMOVALS ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

9. CHANGE IN WORK: THE CITY ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVE THE RIGHT TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT, ANY CHANGES SHALL BE DOCUMENTED AND SUPERCEDE THESE PLANS.

10. OPEN TRENCH: THE CONTRACTOR SHALL PLACE "OPEN TRENCH" SIGNS (C27(CA)) ON TYPE BARRICADES WITHIN THE WORK ZONE, AHEAD OF ANY WORK AREA WHICH INCLUDES OPEN TRENCHES IN EXCESS OF THREE (3) INCHES IN DEPTH, PER CA MUTCD SECTION 6F.103 (CA) GUIDELINES.

11. FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS: THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE CITY RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE WORKING DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE PUBLIC WORKS TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT FOR THIS WORK.

12. CONTRACTOR SHALL INSTALL UNEVEN PAVEMENT SIGNS C46 (CA) ALONG THE EDGE OF AREAS WHERE A STEP OF 1"-2" EXISTS WHETHER PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAVEL.

13. SEE TABLE 6H-3 IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) FOR MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS.

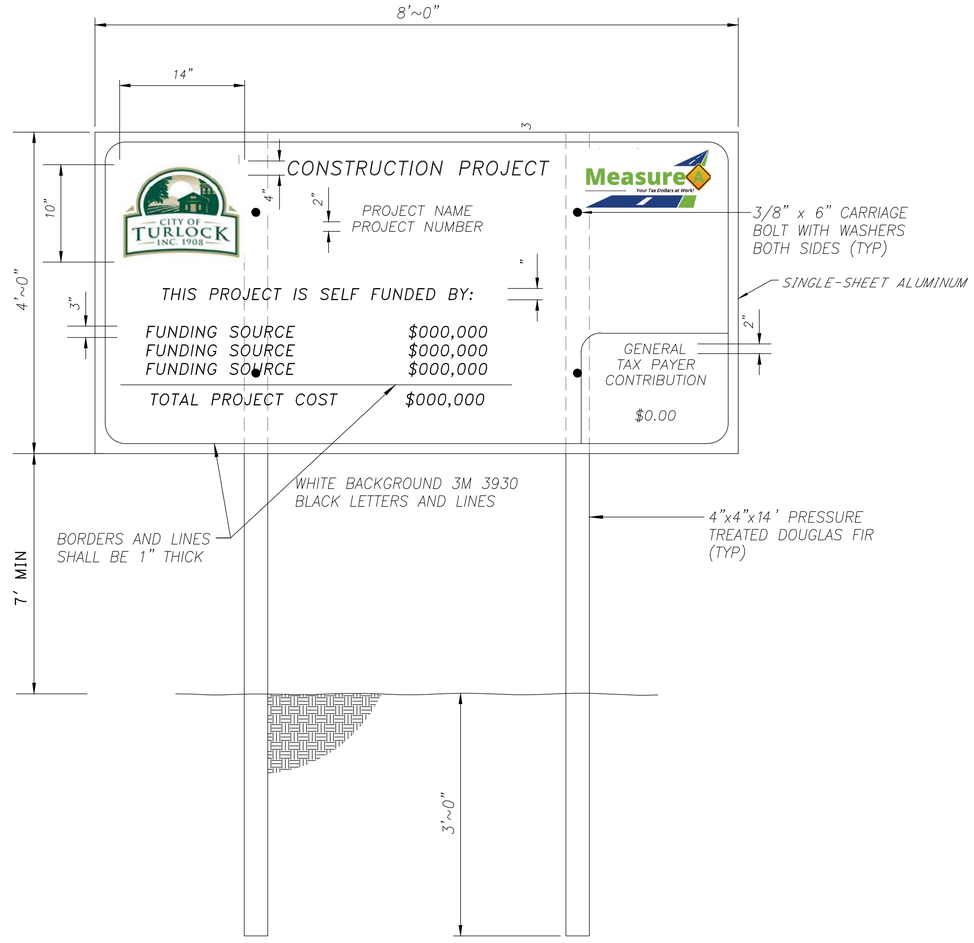
14. CONTRACTOR SHALL DEPLOY EIGHT (8) PORTABLE CHANGEABLE MESSAGE SYSTEMS (PCMS) THROUGHOUT CONSTRUCTION, WITH FINAL PLACEMENT TO BE DETERMINED BY ENGINEER.

15. CONSTRUCTION FUNDING SIGN PLACEMENT TO BE DETERMINED BY THE ENGINEER.

16. STREET CLOSURES AND DETOURS WILL NOT BE NECESSARY FOR THE PLACEMENT OF THE TEMPORARY HMA IN THE 2' SAWCUT AREAS. THE CONTRACTOR SHALL KEEP STREETS OPEN TO TRAFFIC WHILE TEMPORARY HMA IS BEING PLACED.

17. INTERSECTION RECONSTRUCTION SHOULD BE CARRIED OUT IN PHASES SO THAT THE INTERSECTION STAYS OPEN THROUGHOUT THE PAVEMENT CONSTRUCTION PROCESS. TRAFFIC IS TO REMAIN OPEN AT ALL TIMES.

18. AT EACH COMMERCIAL DRIVEWAY WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL FURNISH AND INSTALL, ON A TYPE III BARRICADE, A 4'x4' TEMPORARY SINGLE-SHEET ALUMINUM SIGN STATING "BUSINESS OPEN DURING CONSTRUCTION".



1 / TH-1 **CONSTRUCTION FUNDING SIGN**

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	NOT TO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
TRAFFIC HANDLING PLANS

Sheet 56 of 256 Sheets

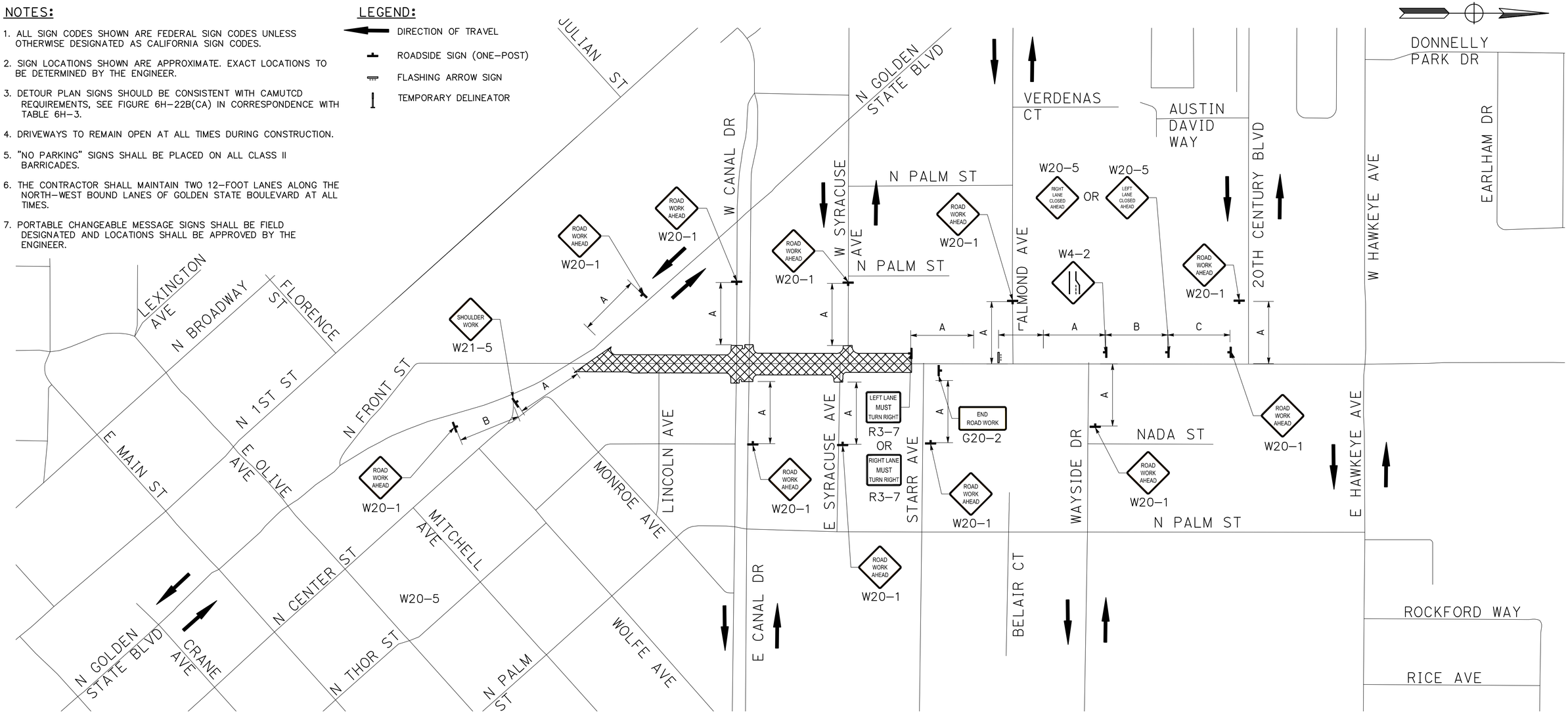
TH-1

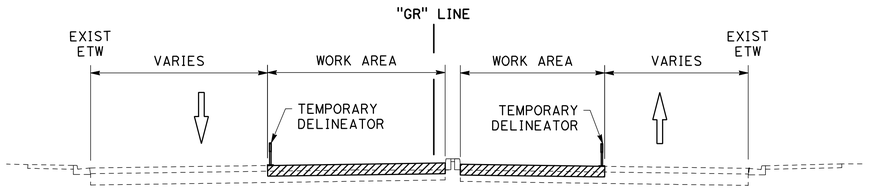
NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. DETOUR PLAN SIGNS SHOULD BE CONSISTENT WITH CAMUTCD REQUIREMENTS, SEE FIGURE 6H-22B(CA) IN CORRESPONDENCE WITH TABLE 6H-3.
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. THE CONTRACTOR SHALL MAINTAIN TWO 12-FOOT LANES ALONG THE NORTH-WEST BOUND LANES OF GOLDEN STATE BOULEVARD AT ALL TIMES.
7. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

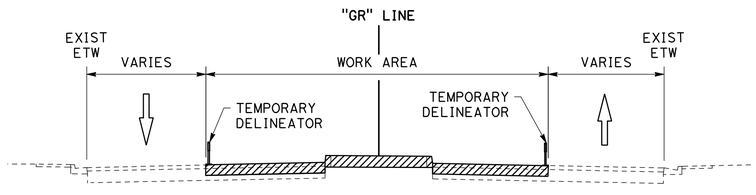
LEGEND:

- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE-POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR

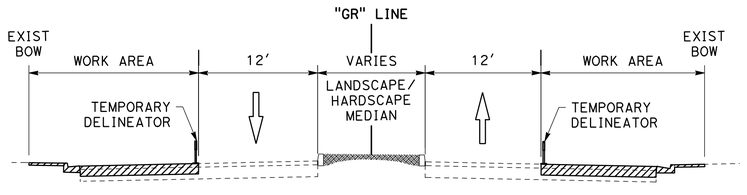




STAGE 1A: INSIDE LANE CLOSURE
NO SCALE



STAGE 1B: INSIDE LANE CLOSURE
NO SCALE



STAGE 1C: OUTSIDE LANE CLOSURE
NO SCALE

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	NOT TO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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200 0 200 400

REGISTERED PROFESSIONAL ENGINEER — ANTHONY A. MORIEGA — No. 61458 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
TRAFFIC HANDLING PLANS

Sheet 57 of 256 Sheets

TH-2

NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
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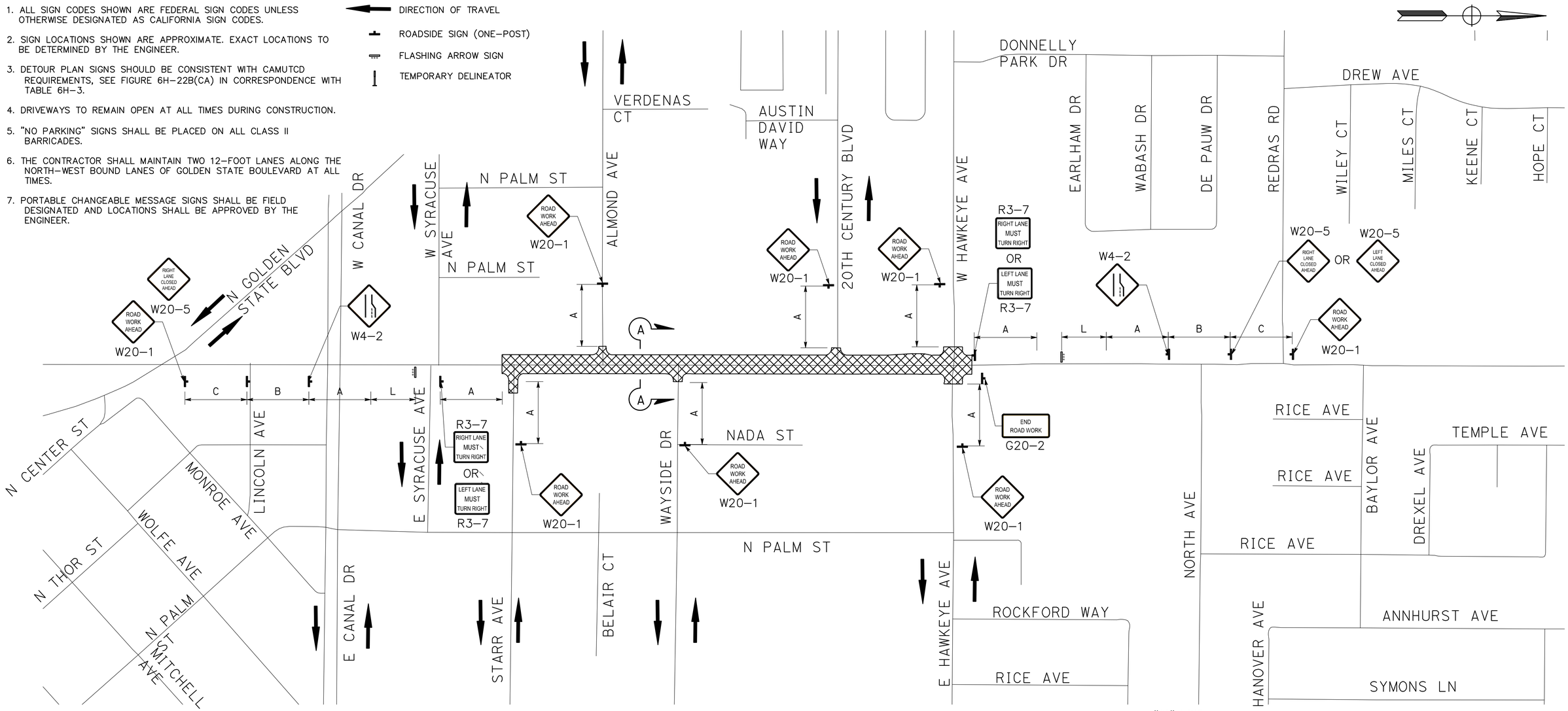
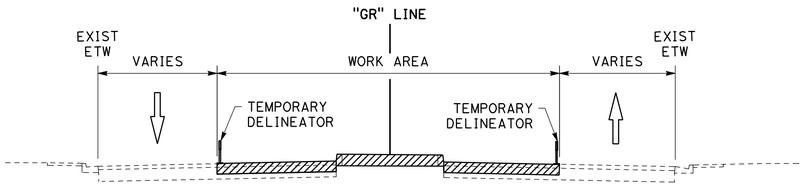
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. THE CONTRACTOR SHALL MAINTAIN TWO 12-FOOT LANES ALONG THE NORTH-WEST BOUND LANES OF GOLDEN STATE BOULEVARD AT ALL TIMES.
7. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

LEGEND:

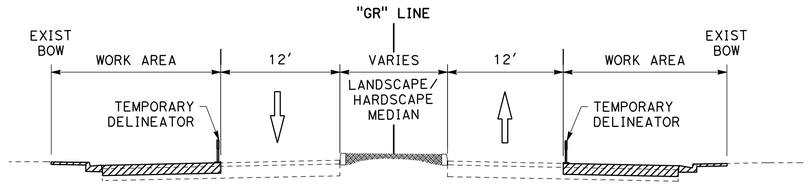
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE-POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 2A: INSIDE LANE CLOSURE

NO SCALE



STAGE 2B: OUTSIDE LANE CLOSURE

NO SCALE

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	NOT TO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 200 0 200 400

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
TRAFFIC HANDLING PLANS

Sheet 58 of 256 Sheets

TH-3

NOTES:

1. ALL TRAFFIC STRIPES & PAVEMENT MARKINGS TO BE THERMOPLASTIC AND PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
2. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
3. EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
4. SIGN NUMBER PER CALIFORNIA MUTCD 2014 EDITION.
5. IN LOCATIONS WHERE CURB AND GUTTER IS RECONSTRUCTED IN FRONT OF A FIRE HYDRANT, CONTRACTOR TO REPLACE BLUE PAVEMENT MARKER (BB) PER CITY OF TURLOCK DETAIL W-3.
6. INSTALL 5" WHITE DIAGONAL STRIPING AT @ 20' SPACING AT BIKE LANE BUFFER LOCATIONS AS SEEN ON PLANS.
7. CONTRACTOR TO INSTALL BICYCLE LOOP DETECTION PAVEMENT MARKINGS ACCORDING TO ELECTRICAL SHEETS.

ABBREVIATIONS:

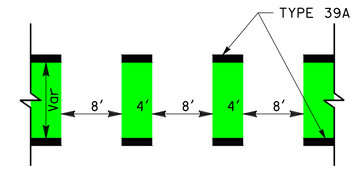
SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD

LEGEND:

No. / L=XX'	CALTRANS STRIPING DETAIL NUMBER L= LENGTH
⬢	EXISTING ROADSIDE SIGN TO REMAIN
✳	INSTALL ROADSIDE SIGN
▲	RELOCATE EXISTING ROADSIDE SIGN
◆	REMOVE EXISTING ROADSIDE SIGN
⊥	EXISTING ROADSIDE SIGN LOCATION
⊸	ROADSIDE SIGN LOCATION (ONE-POST)
▲▲▲▲	YIELD LINES
◬	ANGLE POINT

CONSTRUCTION NOTES:

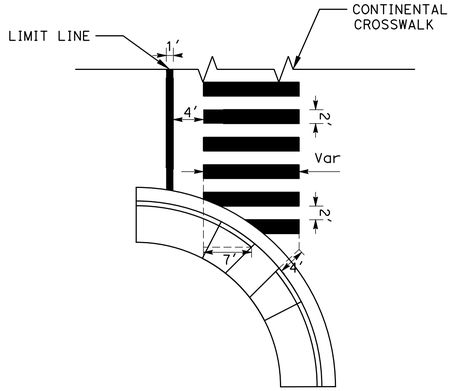
1. INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE & STOP LETTERS
2. INSTALL CONTINENTAL CROSSWALK PER CITY OF TURLOCK STANDARD PLAN C-17(MODIFIED).
3. INSTALL WHITE THERMOPLASTIC YIELD LINE PER MUTCD FIGURE 3B-15
4. INSTALL COLORED BIKE LANE CONFLICT STRIPING PER DETAIL 1, THIS SHEET
5. INSTALL RED PAINTED CURB



1 COLORED BIKE LANE CONFLICT ZONE

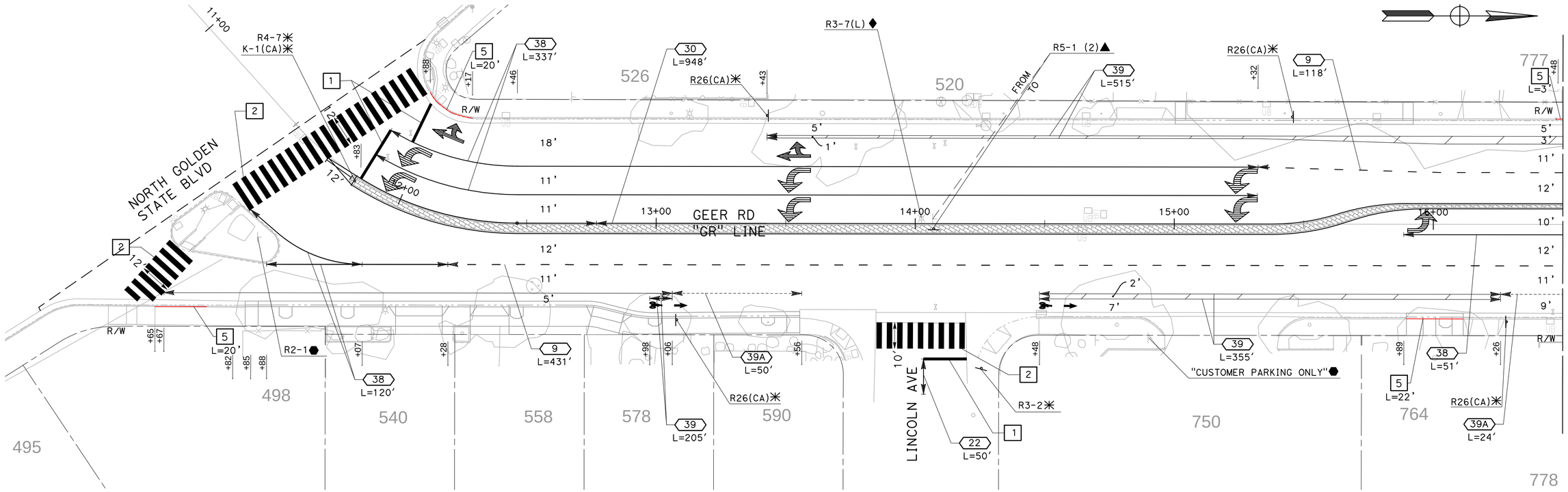
NO SCALE

NOTE:
ALL CROSSWALK MUST BE WHITE EXCEPT THOSE NEAR SCHOOLS MUST BE YELLOW.



2 LIMIT LINE/ CROSSWALK DETAIL

NO SCALE



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JULIAN A. ORTEGA No. 81554 CIVIL STATE OF CALIFORNIA

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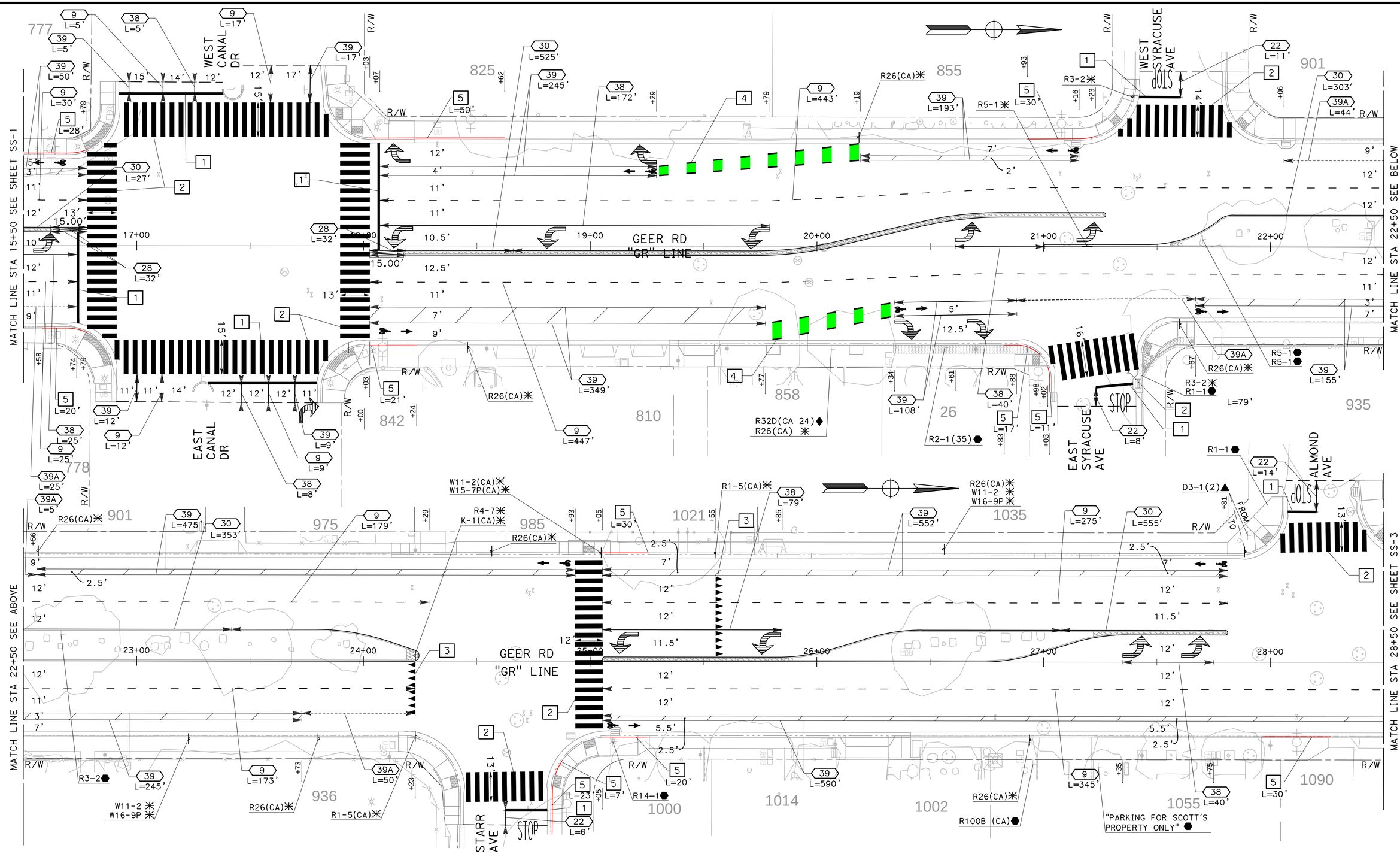
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
SIGNING AND STRIPING

Sheet 59 of 256 Sheets

SS-1



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. TORIEGA
No. 61 631
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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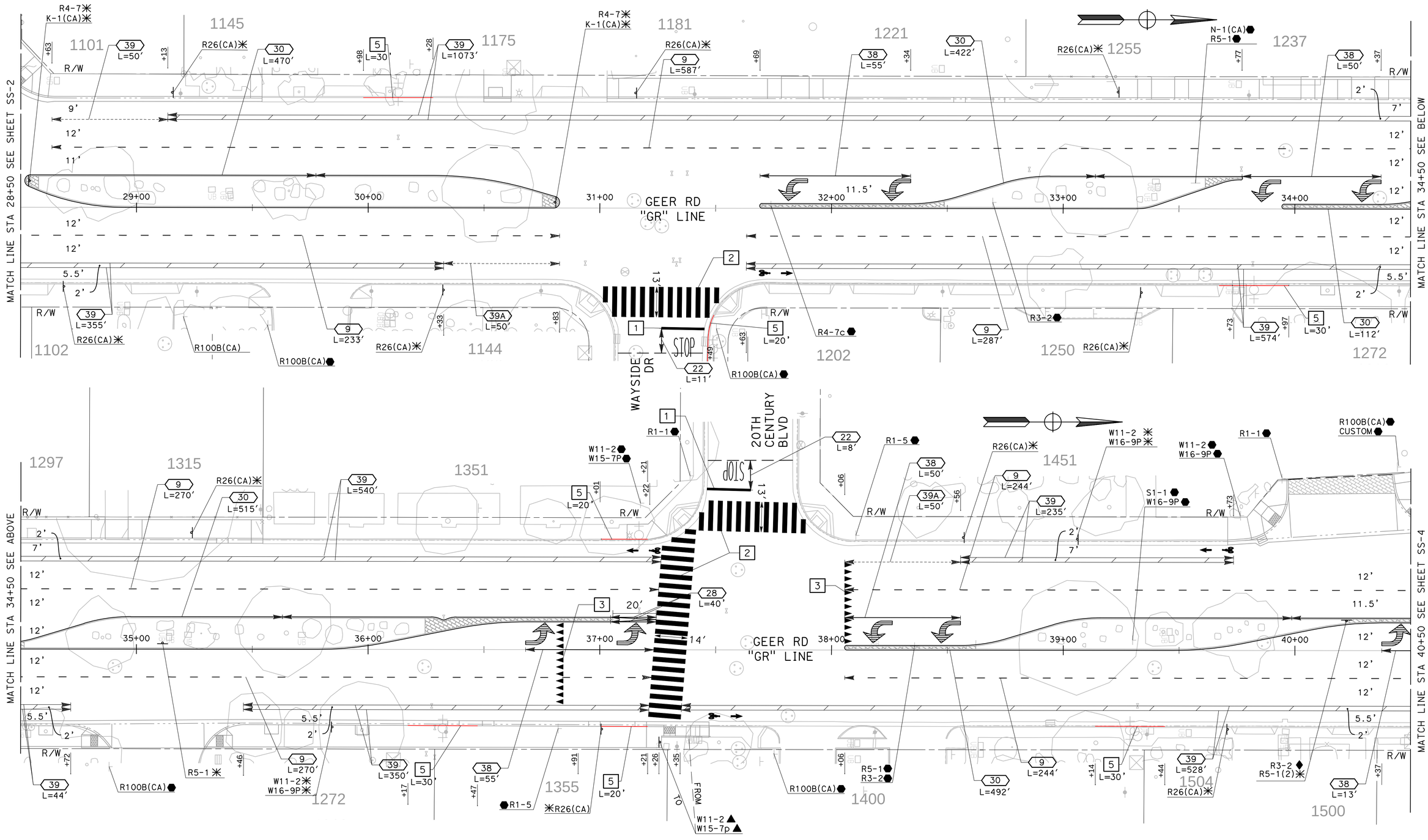
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
SIGNING AND STRIPING

Sheet 60 of 256 Sheets

SS-2



DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 51556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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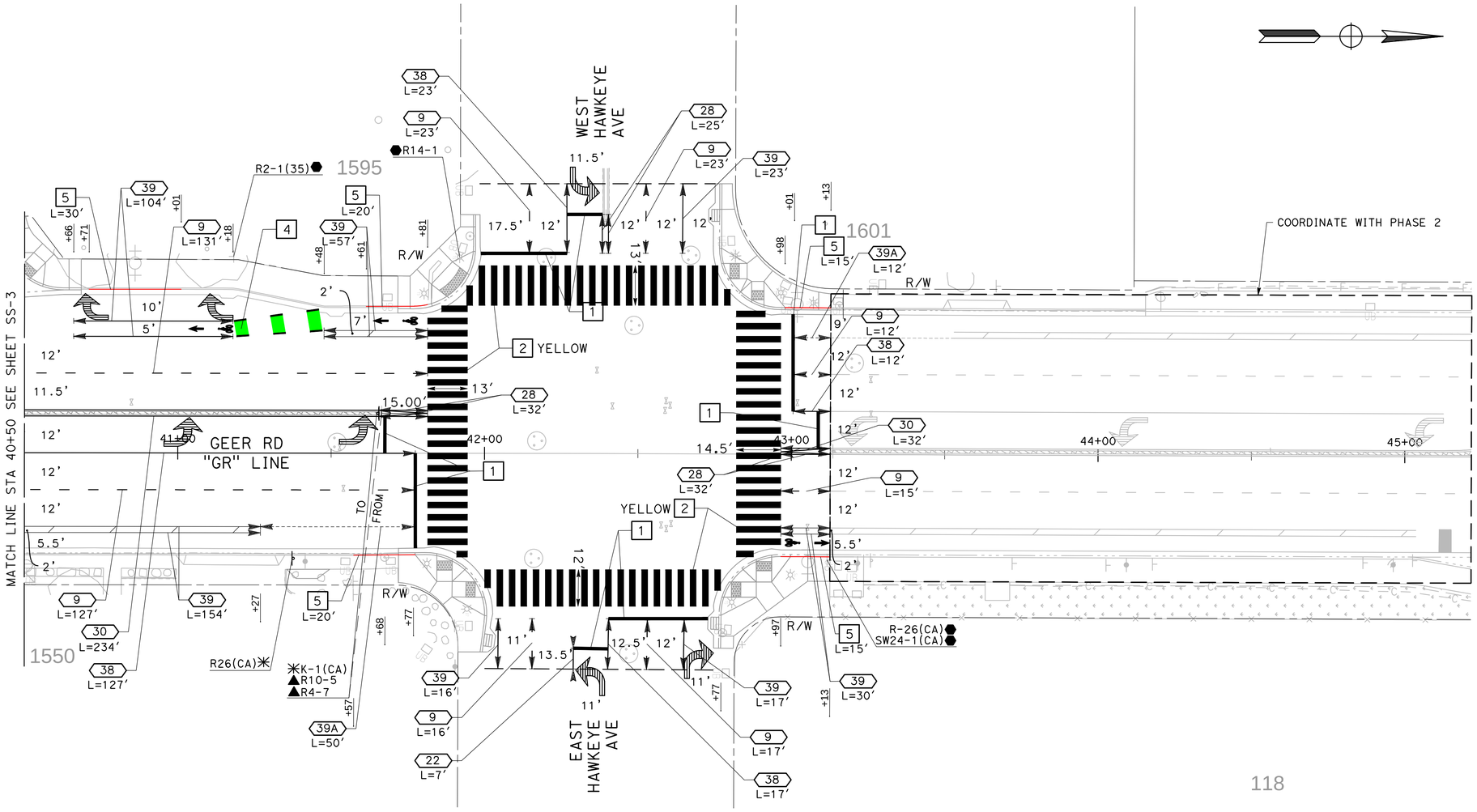
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 1
SIGNING AND STRIPING

Sheet 61 of 256 Sheets

SS-3



118

DESIGNED BY:	F. SAIF
DRAWN BY:	A. SILVA
CHECKED BY:	J. HERNANADEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — ADRIANA A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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ROADS PROGRAM DIVISION
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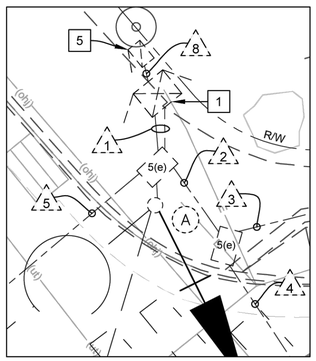
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 1
SIGNING AND STRIPING

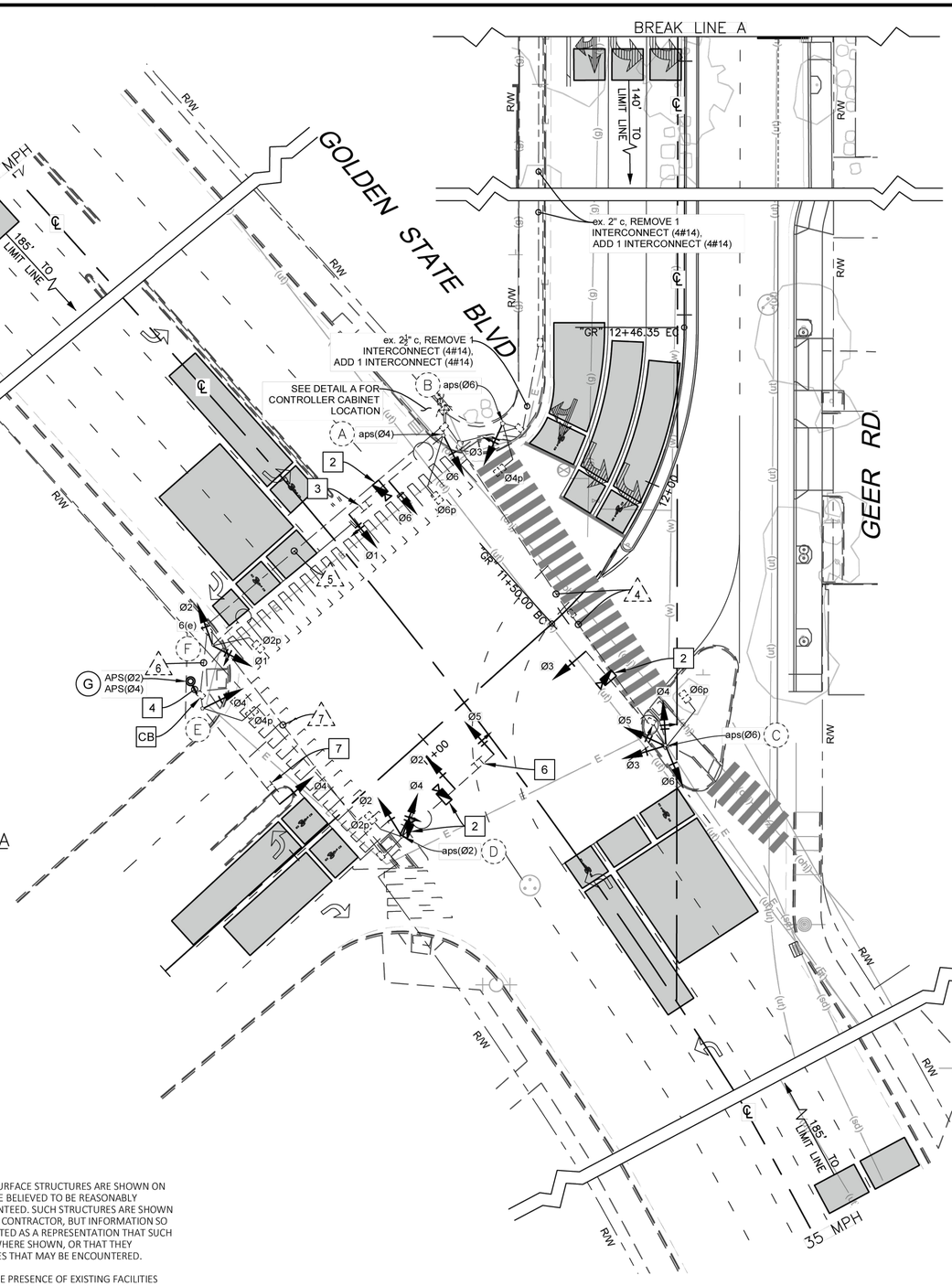
Sheet 62 of 256 Sheets

SS-4



CONTROLLER LOCATION – DETAIL A
NO SCALE

POLE PLACEMENT LOCATION		
POLE	LOCATION	
G	GEER ROAD	STA 10+61.27, 57.32' L

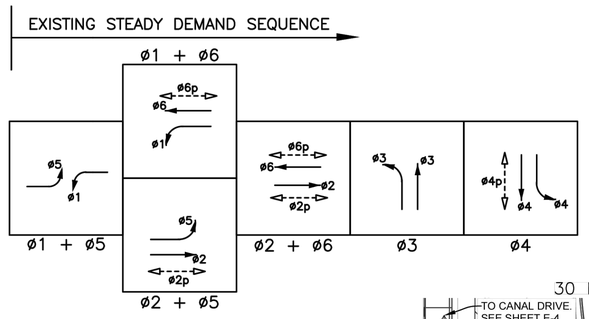


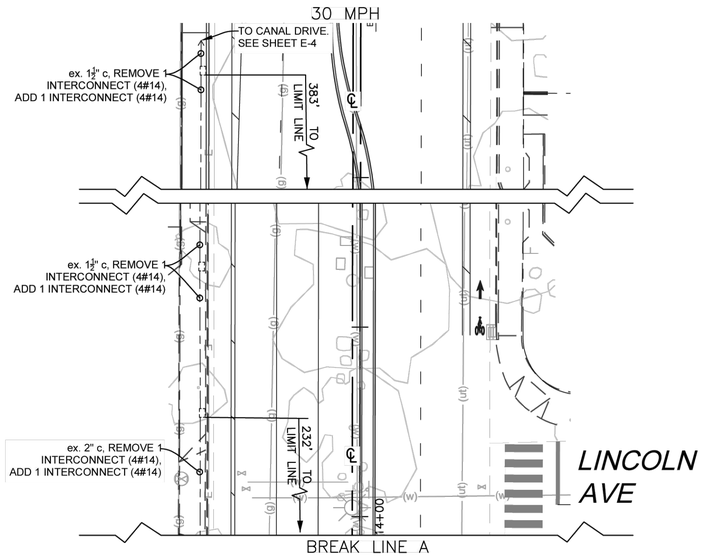
CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE UP BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. EXISTING MODIFIED R73-1(CA) SIGN ON SIGNAL MAST ARM.
4. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.
5. EXISTING TYPE III SERVICE ENCLOSURE TO REMAIN.
6. EXISTING MODIFIED R73-2(CA) SIGN ON SIGNAL MAST ARM.
7. EXISTING MODIFIED R61-17(CA) SIGN ON SIGNAL MAST ARM.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- CENTER LINE
- APS — ACCESSIBLE PEDESTRIAN SIGNAL
- CB — INSTALL CONDUIT INTO EXISTING PULL BOX





SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
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PHONE: (559) 570-8991
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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & GOLDEN STATE BLVD

E-1

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-2. Geer Road at Golden State Blvd Traffic Signal.dwg

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE							
			⟨1⟩	⟨2⟩	⟨3⟩	⟨4⟩	⟨5⟩	⟨6⟩	⟨7⟩	⟨8⟩**
			2-3"	2"	2"	2 ½"	3"	2"	2 ½"	2"
CONDUIT FILL			26%	49%	18%	22%	23%	39%	15%	6%
12 COND. CABLE (VEH.) (PED.) *	Ⓐ	1,6,6P / 4P	1 / 1							
	Ⓑ	3,4P / 6P	1 / 1	1 / 1	1 / 1					
	Ⓒ	3,4,5, 6,6P / 6P	2 / 1	2 / 1		2 / 1				
	Ⓓ	2,4,5, 2P / 2P	1 / 1				1 / 1	1 / 1	1 / 1	
	Ⓔ	4,4P / -	1 / [1]				1 / [1]	1 / [1]		
3 COND. CABLE (APS) *	Ⓕ	1,2,2P / -	1 / [1]				1 / [1]			
	Ⓖ	- / 2P,4P	- / (2)				- / (2)	- / (2)		
TOTAL			7 / 4[2](2)	3 / 2	1 / 1	2 / 1	3 / 1[2](2)	2 / 1[1](2)	1 / 1	
*** TYPE C DETECTOR LEAD-IN CABLE		Ø1	[1]	[1]		[1]				
		Ø2	[4]				[4]			
		Ø3	[2]				[2]	[2]	[2]	
		Ø4	[5]	[5]	[5]					
		Ø5	[1]				[1]			
		Ø6	[4]	[4]		[4]				
		TOTAL DLC	[17]	[10]	[5]	[5]	[7]	[2]	[2]	
# 4	SIGNAL POWER									2
# 8	SAFETY LIGHTS		2	2		2	2	2	2	
# 10	BONDING WIRE		3	1	1	1	1	1	1	
4 - # 14	INTERCONNECT		[1](1)	[1](1)	[1](1)					
CAT 5E	VIDEO DETECTION		(4)	(1)		(1)	(2)	(2)	(2)	

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "#".
ALL NEW CONDUCTORS ARE INDICATED WITH "(#)".
ALL CONDUCTORS WHICH ARE TO BE REMOVED ARE INDICATED WITH [#]".
*** ALL EXISTING DLC'S SHALL BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV PREEMPT	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW				
Ⓐ	24–3–70	35'	12'	MAT MAS	SV–1–T (N)	6	SP–1–T	4	LEFT	81W	1105	–	EXISTING SNS "GEER RD" AND R73-1 (CA) SIGN ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
Ⓑ	1–A (10')	–	–	–	TV–1–T (N)	4	SP–1–T	6	RIGHT	–	–	–	REMOVE AND SALVAGE EXISTING TV-1-T VEHICLE HEAD MOUNTING HARDWARE.
Ⓒ	24–4–70	35'	10'	MAS	SV–1–T(N) SV–3–TB(N)	6	SP–1–T	6	RIGHT	151W	1097	–	EXISTING SNS "N GOLDEN STATE BLVD." ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING SV-3-TB AND SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
Ⓓ	24–3–70	35'	12'	MAT MAS	SV–2–TC (N)	2	SP–1–T	2	LEFT	81W	1121	–	EXISTING SNS "GEER RD" AND R73-2 (CA) SIGN ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING SV-2-TC VEHICLE HEAD MOUNTING HARDWARE.
Ⓔ	23–4–70	35'	–	MAS	SV–1–T (N)	4	SP–1–T	–	–	–	–	–	EXISTING SNS "N. GOLDEN STATE BLVD" AND R61-17 (CA) SIGN ON SMA TO REMAIN. RELOCATE EXISTING APS ASSEMBLY TO POLE Ⓖ. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
Ⓕ	15–T5	–	12'	–	SV–2–TA (N)	2	SP–1–T	–	–	101W	1120	–	REMOVE AND SALVAGE EXISTING SV-2-TA VEHICLE HEAD MOUNTING HARDWARE. RELOCATE EXISTING APS ASSEMBLY TO POLE Ⓖ.
Ⓖ	TYPE 2 POST (5'7")(N)	–	–	–	–	–	–	2 4	LEFT RIGHT	–	–	–	RELOCATE APS ASSEMBLIES FROM POLE Ⓔ AND Ⓕ TO POLE Ⓖ. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES (SHEETS E-1 THROUGH E-3 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-2 Geer Road at Golden State Blvd Traffic Signal\Geer Road at Golden State Boulevard Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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(209) 668-5520

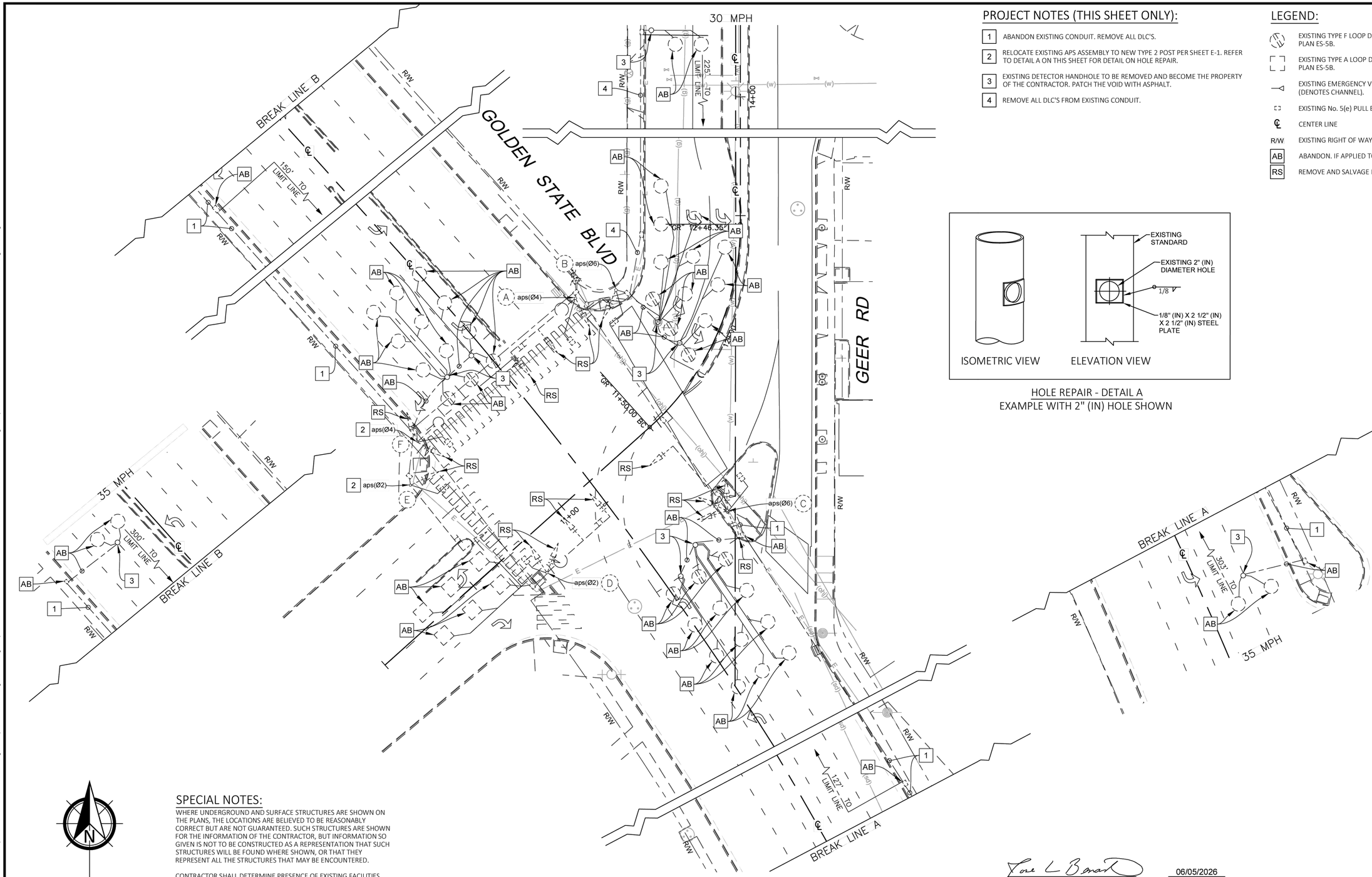
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & GOLDEN STATE BLVD

Sheet 64 of 256 Sheets

E-2



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. RELOCATE EXISTING APS ASSEMBLY TO NEW TYPE 2 POST PER SHEET E-1. REFER TO DETAIL A ON THIS SHEET FOR DETAIL ON HOLE REPAIR.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.
4. REMOVE ALL DLC'S FROM EXISTING CONDUIT.

LEGEND:

- EXISTING TYPE F LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT

HOLE REPAIR - DETAIL A
EXAMPLE WITH 2" (IN) HOLE SHOWN

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	J. RIOS/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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SCALE
20 0 20 40

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CITY OF TURLOCK INC. 1908

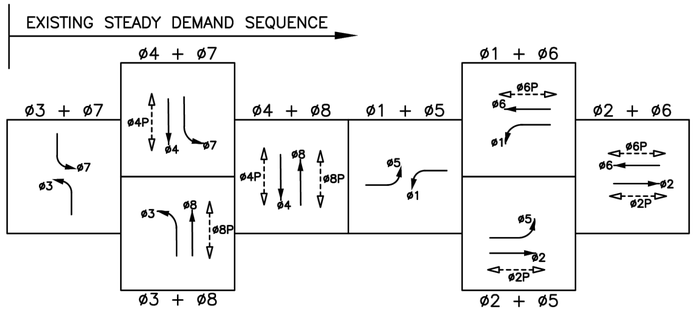
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN
GEER RD & GOLDEN STATE BLVD

Sheet 65 of 256 Sheets

E-3

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-2. Geer Road at Golden State Boulevard Traffic Signal.dwg

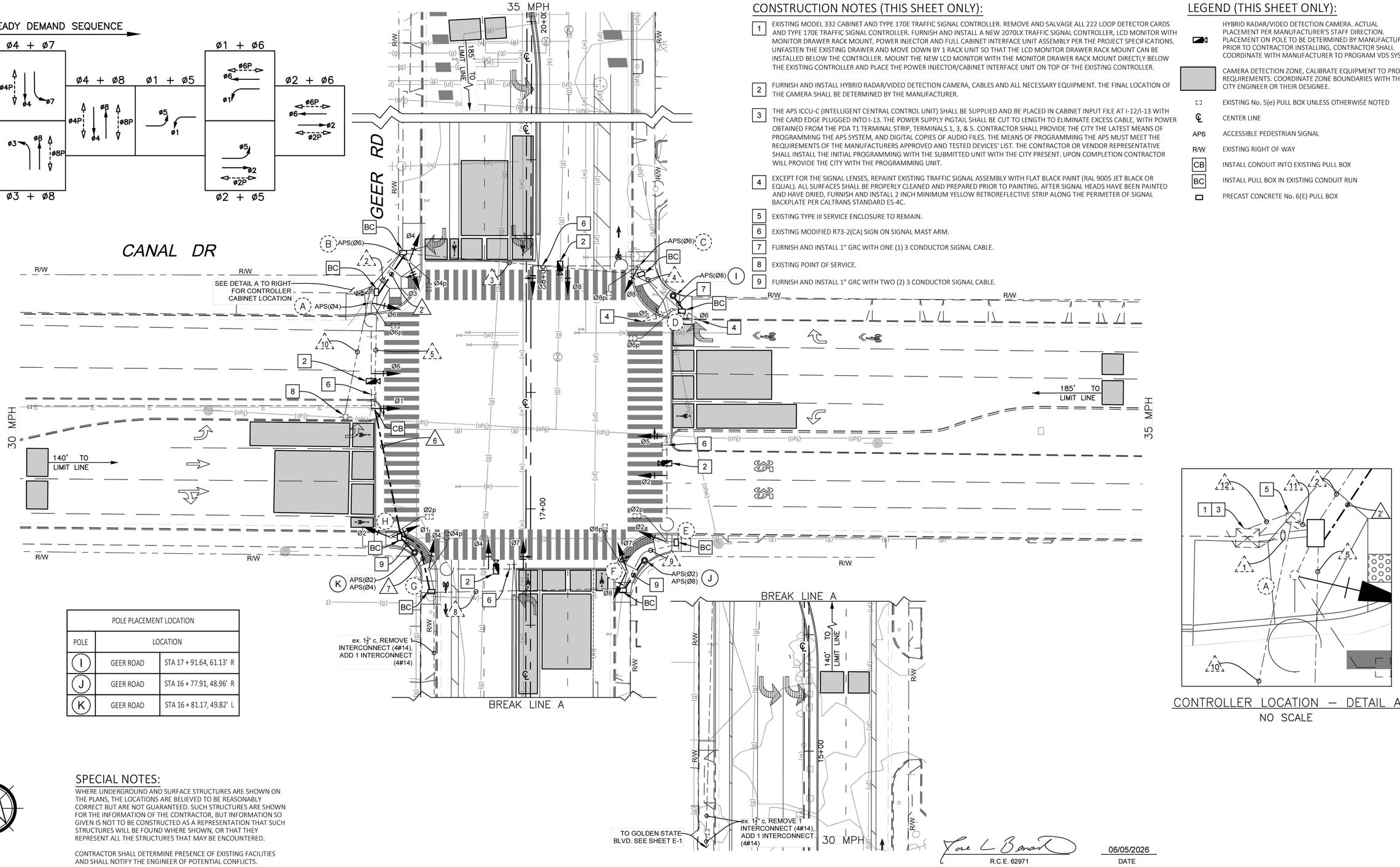


CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 170E TRAFFIC SIGNAL CONTROLLER. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS AND TYPE 170E TRAFFIC SIGNAL CONTROLLER. FURNISH AND INSTALL A NEW 2070LX TRAFFIC SIGNAL CONTROLLER, LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY PER THE PROJECT SPECIFICATIONS. UNFASTEN THE EXISTING DRAWER AND MOVE DOWN BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT.
4. EXCEPT FOR THE SIGNAL LENSES, REPAINT EXISTING TRAFFIC SIGNAL ASSEMBLY WITH FLAT BLACK PAINT (RAL 9005 JET BLACK OR EQUAL). ALL SURFACES SHALL BE PROPERLY CLEANED AND PREPARED PRIOR TO PAINTING. AFTER SIGNAL HEADS HAVE BEEN PAINTED AND HAVE DRIED, FURNISH AND INSTALL 2 INCH MINIMUM YELLOW RETROREFLECTIVE STRIP ALONG THE PERIMETER OF SIGNAL BACKPLATE PER CALTRANS STANDARD ES-4C.
5. EXISTING TYPE III SERVICE ENCLOSURE TO REMAIN.
6. EXISTING MODIFIED R73-2(CA) SIGN ON SIGNAL MAST ARM.
7. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.
8. EXISTING POINT OF SERVICE.
9. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- CENTER LINE
- APS — ACCESSIBLE PEDESTRIAN SIGNAL
- R/W — EXISTING RIGHT OF WAY
- CB — INSTALL CONDUIT INTO EXISTING PULL BOX
- BC — INSTALL PULL BOX IN EXISTING CONDUIT RUN
- PRECAST CONCRETE No. 6(E) PULL BOX



POLE PLACEMENT LOCATION		
POLE	LOCATION	
I	GEER ROAD	STA 17 + 91.64, 61.13' R
J	GEER ROAD	STA 16 + 77.91, 48.96' R
K	GEER ROAD	STA 16 + 81.17, 49.82' L

CONTROLLER LOCATION – DETAIL A
NO SCALE

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	J.RIOS/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & CANAL DR

Sheet 66 of 256 Sheets

E-4

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-1. Geer Road at Canal Drive Traffic Signal.dwg

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE												
			1	2	2	3	4	5	6	7	8	9	10**	11**	12**
			2-3"	3"	3"	2"	2"	3"	4"	4"	2"	2"	2"	2"	2"
CONDUIT FILL			28%	3%	20%	35%	15%	31%	18%	13%	35%	17%	13%	4%	7%
12 COND. CABLE (VEH.) (PED.) *	A	1,6,6P 4P	1 / 1												
	B	3,4,4P 6P	1 / 1		1 / 1										
	C	3,8,8P 6P	1 / 1		1 / 1	1 / 1									
	D	5,6,6P -	1 / -		1 / -	1 / -	1 / -								
	E	2,5,2P -	1 / -					1 / -	1 / -	1 / -	1 / -	1 / -			
	F	7,8,8P -	1 / -					1 / -	1 / -	1 / -	1 / -				
	G	4,7,4P -	1 / -					1 / -	1 / -	1 / -					
	H	1,2,2P -	1 / -					1 / -	1 / -						
	I	- 8P	- / 1		- / 1	- / 1	- / 1								
	J	- 2P,8P	- / 2					- / 2	- / 2	- / 2	- / 2				
	K	- 2P,4P	- / 2					- / 2	- / 2						
TOTAL			8 / 8		3 / 3	2 / 2	1 / 1	4 / 4	4 / 4	3 / 2	2 / 2	1 / -			
# 2	SERVICE												(3)		
# 4	SIGNAL POWER														(2)
# 8	SAFETY LIGHTS			2		2		2	2	2	2	2		2	
# 10	BONDING WIRE	1	1		1	1	1	1	1	1	1			1	1
4 - # 14	INTERCONNECT	1					1	1	1						
CAT 5E	VIDEO DETECTION	4	1		1		2	2	2	1	1				

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	26–3–70	45'	12'	MAT MAS	SV–1–T (N)	6	SP–1–T	4 (N)	LEFT (N)	81W	1108	–	EXISTING SNS "GEER RD" AND MODIFIED R73-2(CA) ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T (N)	4	SP–1–T	6 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
C	26–3–70	45'	12'	MAT MAS	SV–1–T (N)	8	SP–1–T	6 (N)	LEFT (N)	81W	981	–	EXISTING SNS "E CANAL DR" AND MODIFIED R73-2(CA) ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T	6	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
E	26–3–70	45'	12'	MAT MAS	SV–1–T (N)	2	SP–1–T	–	–	101W	990	–	EXISTING SNS "GEER RD" AND MODIFIED R73-2(CA) ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD SV-1-T MOUNTING HARDWARE.
F	1–A (10')	–	–	–	TV–2–T (N)	8	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
G	26–3–70	40'	12'	MAT MAS	SV–1–T (N)	4	SP–1–T	–	–	101W	1103	–	EXISTING SNS "W CANAL DR" AND MODIFIED R73-2(CA) ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–2–T (N)	2	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
I	TYPE 2 POST (5' 7") (N)	–	–	–	–	–	–	8 (N)	RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
J	TYPE 2 POST (5' 7") (N)	–	–	–	–	–	–	2 (N) 8 (N)	RIGHT (N) LEFT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
K	TYPE 2 POST (5' 7") (N)	–	–	–	–	–	–	2 (N) 4 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES (SHEETS E-4 THROUGH E-6 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971 — DATE 06/05/2026

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-1. Geer Road at Canal Drive Traffic Signal\Geer Road at Canal Drive Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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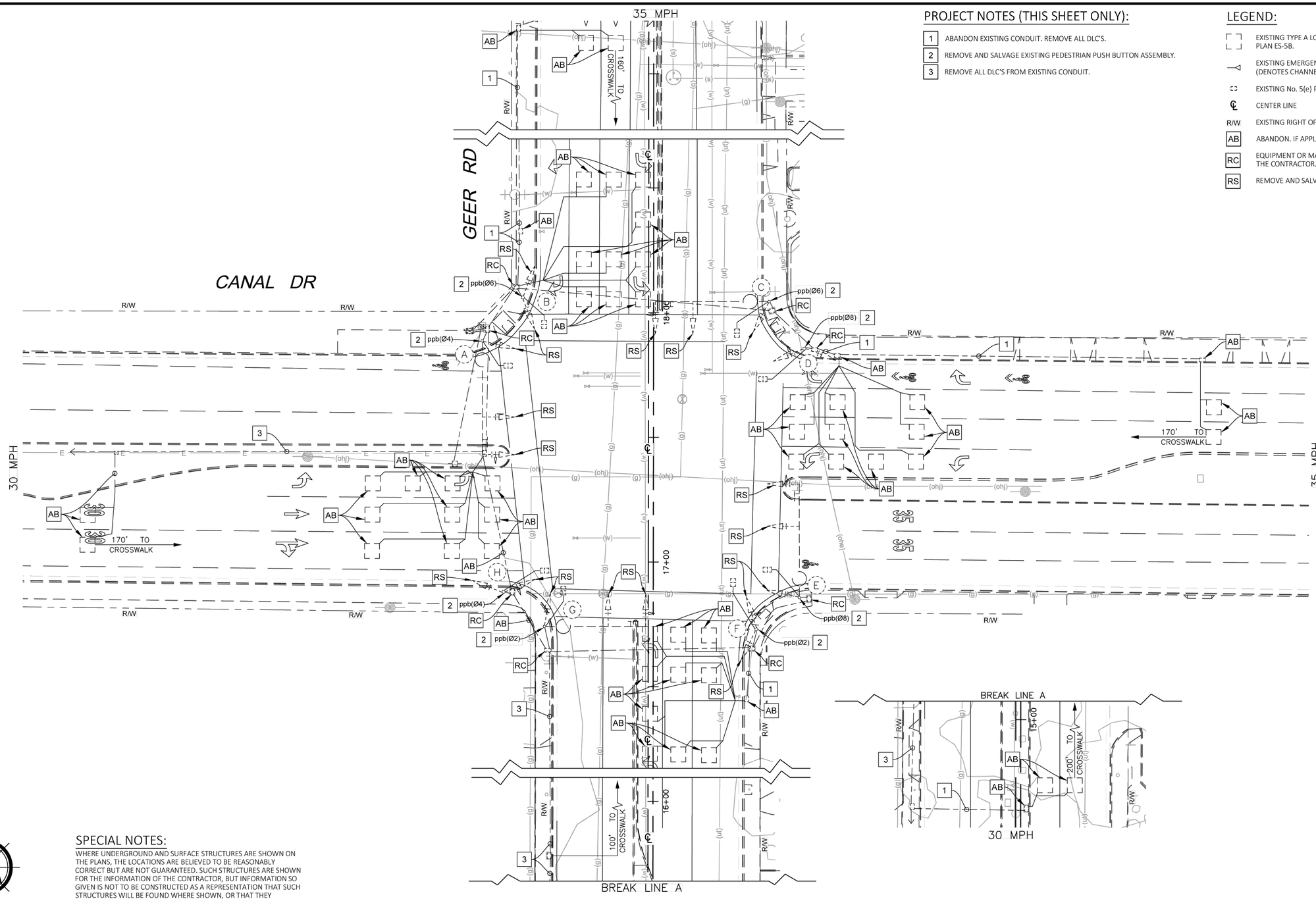
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & CANAL DR



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. REMOVE ALL DLC'S FROM EXISTING CONDUIT.

LEGEND:

- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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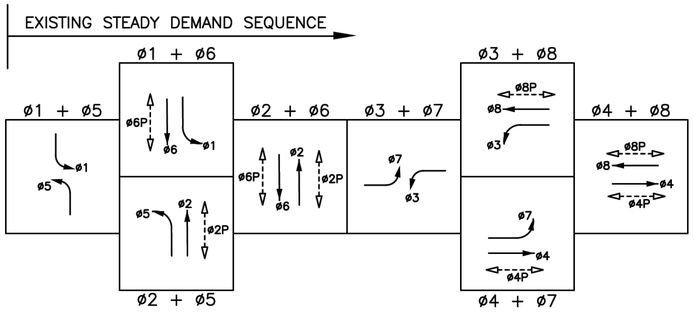
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & CANAL DR

Sheet 68 of 256 Sheets

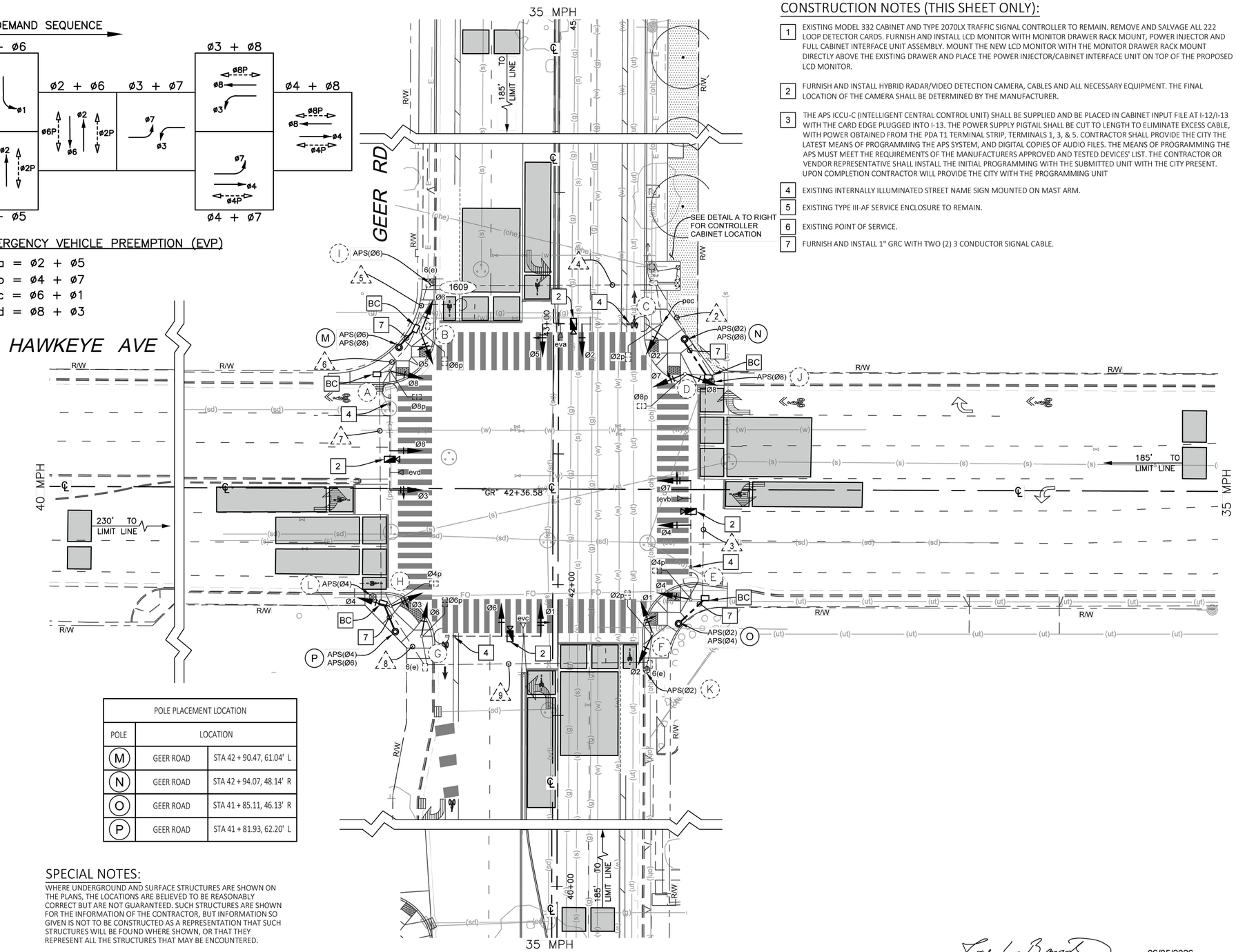
E-6

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P3-1. Geer Road at Canal Drive Traffic Signal\Geer Road at Canal Drive Traffic Signal.dwg



EXISTING EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4 + ø7
evc = ø6 + ø1
evd = ø8 + ø3



POLE PLACEMENT LOCATION		
POLE	LOCATION	
M	GEER ROAD	STA 42 + 90.47, 61.04' L
N	GEER ROAD	STA 42 + 94.07, 48.14' R
O	GEER ROAD	STA 41 + 85.11, 46.13' R
P	GEER ROAD	STA 41 + 81.93, 62.20' L

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

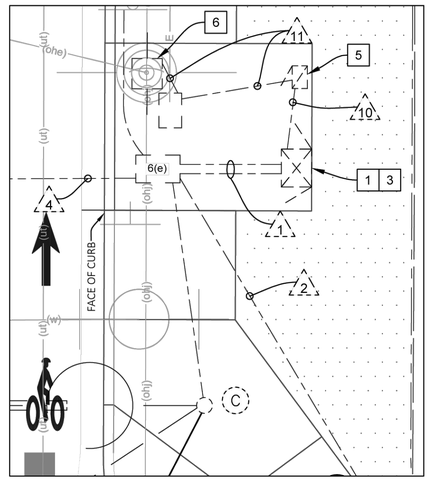
CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY ABOVE THE EXISTING DRAWER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE PROPOSED LCD MONITOR.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT
4. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.
5. EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
6. EXISTING POINT OF SERVICE.
7. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- PRECAST CONCRETE No. 6(E) PULL BOX
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING LUMINAIRE
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- CENTER LINE
- APS — ACCESSIBLE PEDESTRIAN SIGNAL
- R/W — EXISTING RIGHT OF WAY
- BC — INSTALL PULL BOX IN EXISTING CONDUIT RUN



CONTROLLER LOCATION – DETAIL A
NO SCALE

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-5. Geer Road at Hawkeye Avenue Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	J. RIOS/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE: 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSE LUIS BENAVIDES — No.C 62971 — Exp:06/30/26 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET GEER RD & HAWKEYE AVE

Sheet 69 of 256 Sheets

E-7

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE										
			1	2	3	4	5	6	7	8	9	10**	11
			4"	4"	4"	4"	4"	4"	4"	4"	4"	2"	1"
CONDUIT FILL			42%	13%	7%	26%	25%	19%	15%	9%	4%	22%	51%
12 COND. CABLE (VEH.) (PED.) *	A	3,8,8P	1 -			1 -	1 -	1 -					
	B	5,6,6P	1 -			1 -	1 -						
	C	2,5,2P	1 -										
	D	7,8,8P	1 -	1 -									
	E	4,7,4P	1 -	1 -	1 -								
	F	1,2,2P	1 -			1 -	1 -	1 -	1 -	1 -	1 -		
	G	1,6,6P	1 -			1 -	1 -	1 -	1 -	1 -			
	H	3,4,4P	1 -			1 -	1 -	1 -	1 -				
	I	- 6P	- 1			- 1							
	J	- 8P	- 1	- 1									
	K	- 2P	- 1			- 1	- 1	- 1	- 1	- 1	- 1		
	L	- 4P	- 1			- 1	- 1	- 1	- 1				
	M	- 6P,8P	- 2			- 2	- 2						
	N	- 2P,8P	- 2	- 2									
3 COND. CABLE (APS) *	O	- 2P,4P	- 2	- 2	- 2								
	P	- 4P,6P	- 2			- 2	- 2	- 2	- 2				
TOTAL			8 12	2 5	1 2	5 7	5 6	4 4	3 4	2 1	1 1		

# 2	SERVICE												(3)
# 4	SIGNAL POWER											(2)	
# 6	STREET LIGHTING	3			3	3						3	
# 8	SAFETY LIGHTS	2	2	2	2	2	2	2	2			2	
# 10	IISNS	2	2	2	2	2	2	2	2			2	
# 10	BONDING WIRE	1	1	1	1	1	1	1	1	1		1	
# 12	PEC CONTROL	3										3	
4 - # 14	INTERCONNECT	(1)											
CAT 5E	VIDEO DETECTION	4	1	1	2	2	2	1	1				
EVP CABLE 3 COND.	EVA (N/B)	1											
	EVB (E/B)	1	1	1									
	EVC (S/B)	1			1	1	1	1	1				
	EVD (W/B)	1			1	1	1						

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD Type	Sig. M.A.	Lum.M.A.	VEH SIG MTG Mast Arm	Pole	PED SIGNAL Ø	MTG	APS Ø	ARROW	LED LUMINAIRE WATTAGE	POLE No.	EV PREEMPT	SPECIAL REQUIREMENTS
A	26–4–70	45'	12'	MAT MAS	SV–1–T (N)	8	SP–1–T	–	–	71W	2153	evd	EXISTING IISNS "GEER ROAD" AND EVD ON SMA TO REMAIN. EXISTING R81(CA) SIGN ON POLE STANDARD TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE SV-1-T EXISTING VEHICLE HEAD MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T (N)	6	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
C	26–4–70	45'	12'	MAT MAS	SV–1–T (N)	2	SP–1–T	–	–	71W	2151	eva	EXISTING IISNS "HAWKEYE AVENUE" AND EVA ON SMA TO REMAIN. EXISTING R14-1 SIGN ON POLE STANDARD TO REMAIN. EXISTING PEC ATOP POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T (N)	8	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
E	26–4–70	45'	12'	MAT MAS	SV–1–T (N)	4	SP–1–T	–	–	71W	2149	evb	EXISTING IISNS "GEER RD" EVB ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
F	1–A (10')	–	–	–	TV–2–T (N)	2	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
G	26–4–70	45'	12'	MAT MAS	SV–1–T (N)	6	SP–1–T	–	–	71W	2147	evc	EXISTING IISNS "HAWKEYE AVENUE" AND EVC ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–2–T (N)	4	SP–1–T	–	–	–	–	–	EXISTING R14-1 SIGN ON POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
I	PPB POST	–	–	–	–	–	–	6 (N)	LEFT	–	–	–	REMOVE AND SALVAGE EXISTING PED PUSH BUTTON ASSEMBLY. FURNISH AND INSTALL NEW APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
J	PPB POST	–	–	–	–	–	–	8 (N)	LEFT	–	–	–	REMOVE AND SALVAGE EXISTING PED PUSH BUTTON ASSEMBLY. FURNISH AND INSTALL NEW APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
K	PPB POST	–	–	–	–	–	–	2 (N)	LEFT	–	–	–	REMOVE AND SALVAGE EXISTING PED PUSH BUTTON ASSEMBLY. FURNISH AND INSTALL NEW APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
L	PPB POST	–	–	–	–	–	–	4 (N)	LEFT	–	–	–	REMOVE AND SALVAGE EXISTING PED PUSH BUTTON ASSEMBLY. FURNISH AND INSTALL NEW APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
M	TYPE 2 POST (5'7") (N)	–	–	–	–	–	–	6 (N) 8 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
N	TYPE 2 POST (5'7") (N)	–	–	–	–	–	–	2 (N) 8 (N)	RIGHT (N) LEFT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
O	TYPE 2 POST (5'7") (N)	–	–	–	–	–	–	2 (N) 4 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
P	TYPE 2 POST (5'7") (N)	–	–	–	–	–	–	4 (N) 6 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES (SHEETS E-7 THROUGH E-9 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
2. THESE PLANS ARE ACCURATE FOR ELECTICAL 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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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.
11. 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.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-5. Geer Road at Hawkeye Avenue Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
PHONE: (559) 570-8991
EMAIL: info@JLBtraffic.com

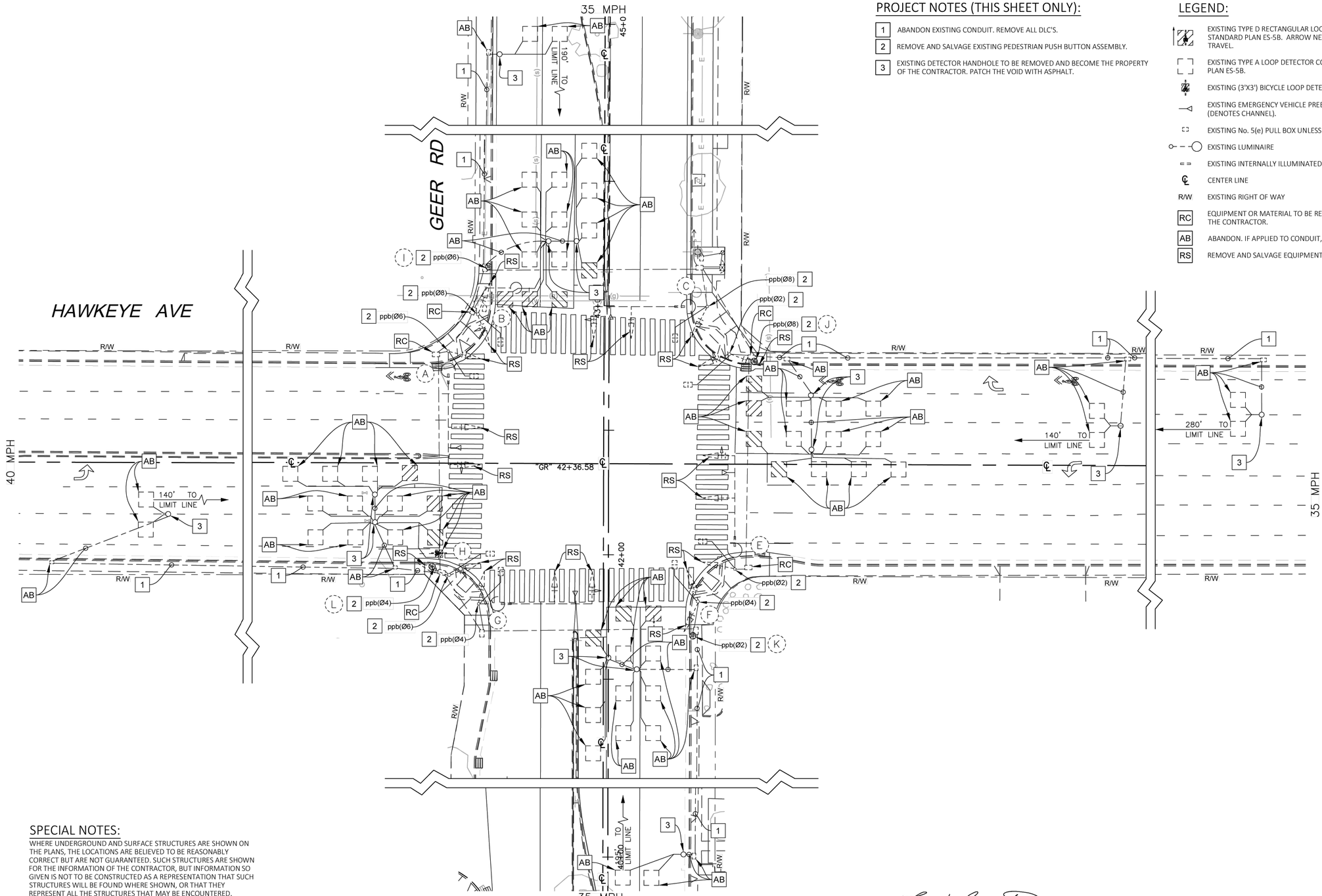
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & HAWKEYE AVE

E-8



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING (3'X3') BICYCLE LOOP DETECTOR CONFIGURATION.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING LUMINAIRE
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-5. Geer Road at Hawkeye Avenue Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	J. RIOS/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM
DEMOLITION PLAN
GEER RD & HAWKEYE AVE

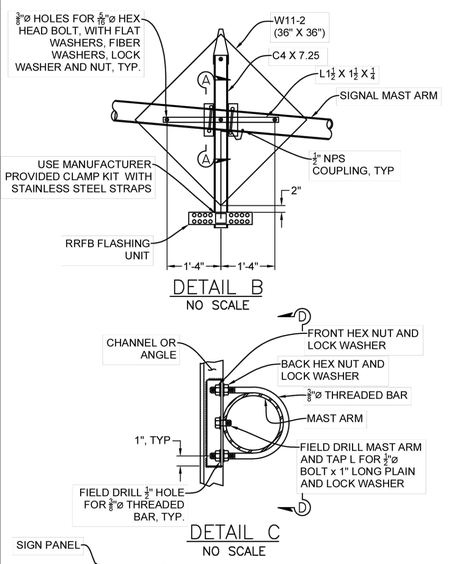
Sheet 71 of 256 Sheets

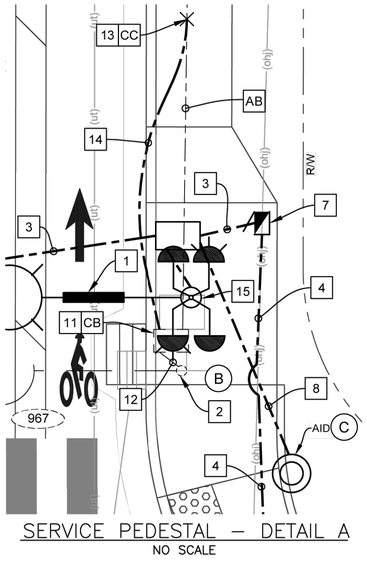
E-9

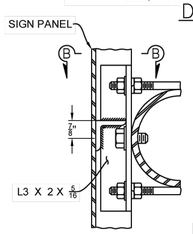
EQUIPMENT SCHEDULE

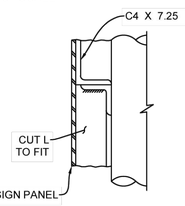
No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	AID ARROW	LED LUMINAIRE WATTAGE	SPECIAL REQUIREMENTS
A	29–5–100	50’	12’	LEFT	72 W	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS, INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL, AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH TWO LIGHTBARS, TWO W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "STARR AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
B	19–3–100 (24')	25’	12’	–	72 W	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH ONE LIGHTBAR AND ONE W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS. THIS POLE STANDARD SHALL BE MODIFIED TO A HEIGHT OF 24' IN ORDER TO MEET GO 95 CLEARANCE FROM EXISTING OVERHEAD. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "STARR AVE" ON SMA COMPLETE WITH MOUNTING HARDWARE.
C	TYPE 2 POST (5'7")	–	–	LEFT	–	FURNISH AND INSTALL INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL. THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.

1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED WITH (E).
2. RECTANGULAR RAPID FLASHING BEACONS SHALL BE ELTEC, CARMANAH, JSF OR APPROVED EQUAL.
3. PEDESTRIAN CROSSING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN.









SPECIAL NOTES:

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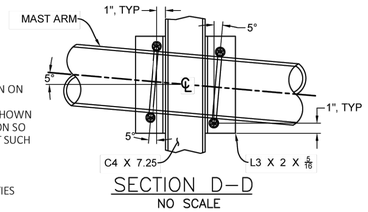

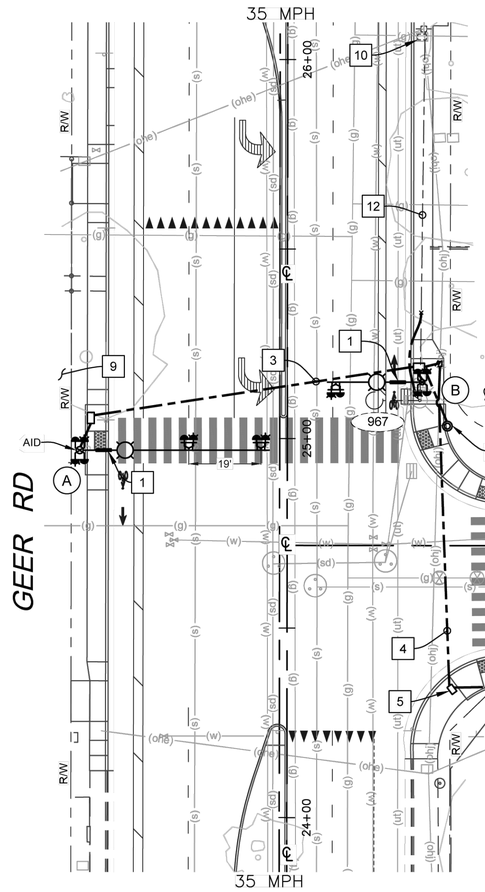

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN ON SIGNAL MAST ARM COMPLETE WITH MOUNTING HARDWARE PER THE PROJECT SPECIFICATIONS.
2. CONTRACTOR TO COORDINATE WITH TID TO REMOVE AND SALVAGE EXISTING STREET LIGHT #967, STREET LIGHT FOUNDATION, LUMINAIRE MAST ARM AND LUMINAIRE. THIS STREET LIGHT TO REMAIN OPERATIONAL UNTIL THE LUMINAIRE ON POLE B IS POWERED AND OPERATIONAL.
3. FURNISH AND INSTALL 3" C WITH 2 #6 (RRFB), 2 #10 (LTG.), 2 #10 (IISNS) AND 1 #8 (GROUND).
4. FURNISH AND INSTALL 3" C WITH TID CONDUCTORS.
5. FURNISH AND INSTALL TID APPROVED PULL BOX.
6. CONTRACTOR TO COORDINATE WITH TID TO INSTALL RISER ON THE EXISTING TID WOOD POLE. CONTRACTOR TO COORDINATE WITH TID FOR TID TO CONNECT SERVICE CONDUCTORS TO THE TRANSFORMER.
7. FURNISH AND INSTALL 120/240 V, 3-WIRE, 1Ø, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE CIRCUIT BREAKERS SHOWN BELOW. CONTRACTOR SHALL COORDINATE WITH TID FOR POINT OF SERVICE CONNECTION AND METER SET.

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
15	120	1	RRFB	YES	———
30	240	2	LIGHTING	NO	V
15	120	1	LIGHTING CONTROL	YES	———
20	120	1	SPARE	YES	———

8. FURNISH AND INSTALL 1¼" C WITH PROPERLY RATED 6-CONDUCTOR CABLE WITH #18 AWG CONDUCTORS FOR THE AID. CONDUCTOR CABLE TO RUN FROM THE PROPOSED AID ON POLE C TO THE CONTROLLER ON POLE B.
9. TRIM TREE BRANCHES WITHIN STREET R/W FOR VISIBILITY TO THE RRFB SYSTEM.
10. THIS PULL BOX SHALL REMAIN UNTIL THE LUMINAIRE ON POLE B IS POWERED AND OPERATIONAL. ONCE POLE B IS POWERED AND OPERATIONAL, THIS PULL BOX SHALL BE ABANDONED.
11. THIS PULL BOX SHALL REMAIN UNTIL THE LUMINAIRE ON POLE B IS POWERED AND OPERATIONAL. ONCE POLE B IS POWERED AND OPERATIONAL, THIS PULL BOX SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
12. THIS CONDUIT SHALL REMAIN UNTIL THE LUMINAIRE ON POLE B IS POWERED AND OPERATIONAL. ONCE POLE B IS POWERED AND OPERATIONAL, THIS CONDUIT SHALL BE ABANDONED AND ALL CONDUCTORS SHALL BE REMOVED.
13. DISCONNECT STREET LIGHT CONDUCTORS FROM STREET LIGHT #967. COIL STREET LIGHTING CONDUCTORS AND GROUNDING WIRE NEAR WOOD POLE. AFTER THE NEW CONDUIT HAS BEEN CONNECTED TO THE EXISTING CONDUIT, REFEED THE STREET LIGHT CONDUCTORS AND GROUNDING WIRE THROUGH THE PROPOSED CONDUIT AND RECONNECT THE EXISTING STREET LIGHT.
14. FURNISH AND INSTALL 2" C AND REFEED LIGHTING CONDUCTORS. ONCE POLE B IS POWERED AND OPERATIONAL AND STREET LIGHT #967 HAS BEEN REMOVED, THIS CONDUIT SHALL BE ABANDONED AND ALL CONDUCTORS SHALL BE REMOVED.
15. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CENTERLINE CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS.

LEGEND (THIS SHEET ONLY):

- RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- BACK TO BACK RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- ℄ CENTER LINE
- AID AUDIBLE INFORMATION DEVICE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
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8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN AUDIBLE INFORMATION DEVICE (AID) SYSTEM, OR APPROVED EQUAL, IN CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS. THE AID SHALL PROVIDE BOTH AN ARROW BUTTON AND AN AUDIBLE STANDARD MESSAGE OF "WARNING LIGHTS ARE FLASHING" DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE AID SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS.
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POLE PLACEMENT LOCATION		
POLE	LOCATION	
A	GEER RD	STA 24 + 96.87, 54.77' L
B	GEER RD	STA 25 + 14.90, 35.61' R
C	GEER RD	STA 25 + 03.31, 42.26' R

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P3-2 Geer Road at Starr Avenue RRFB\Geer Road at Starr Avenue RRFB.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
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USA NORTH 811 Call 811 Before You Dig

SCALE
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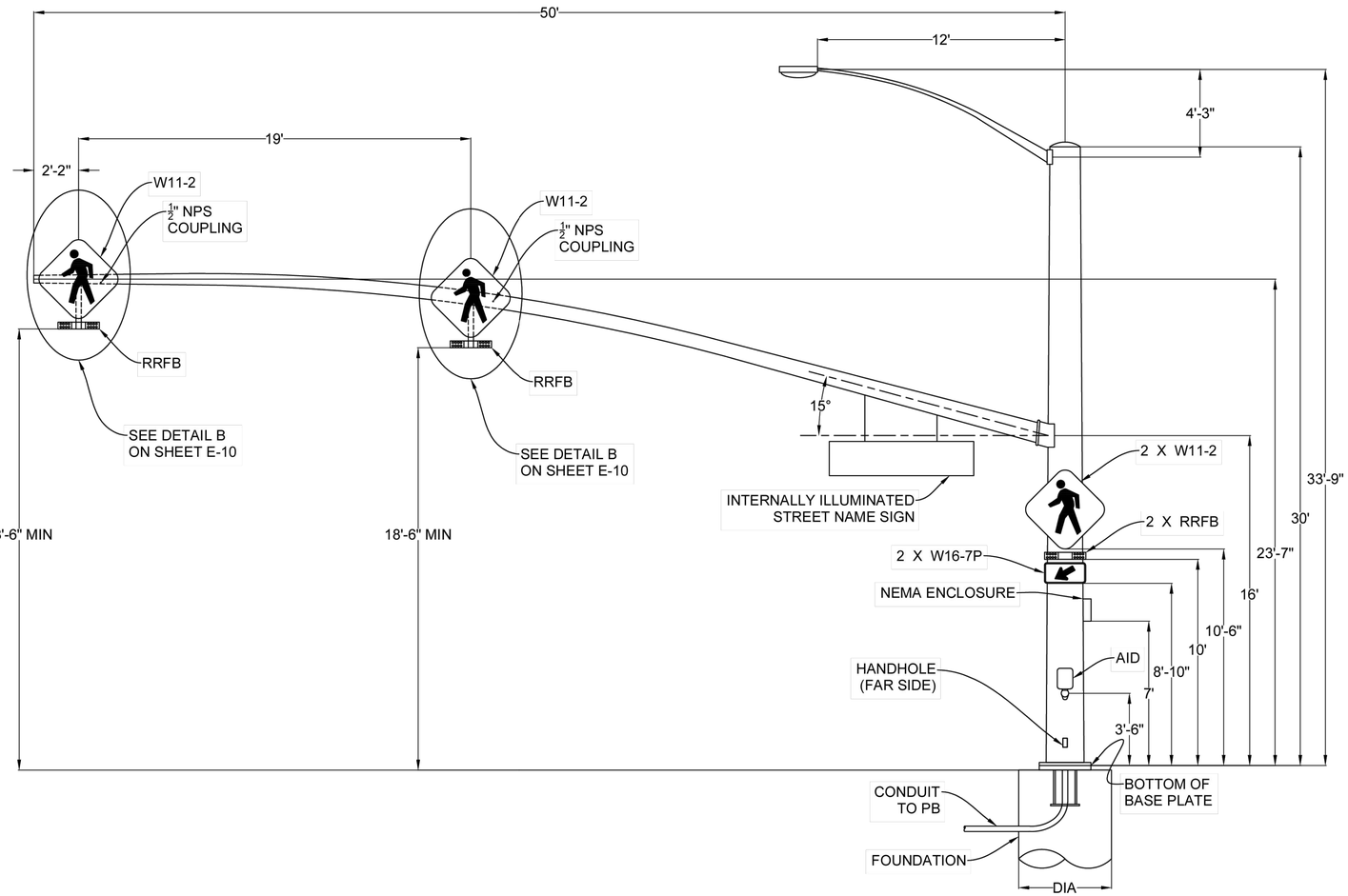
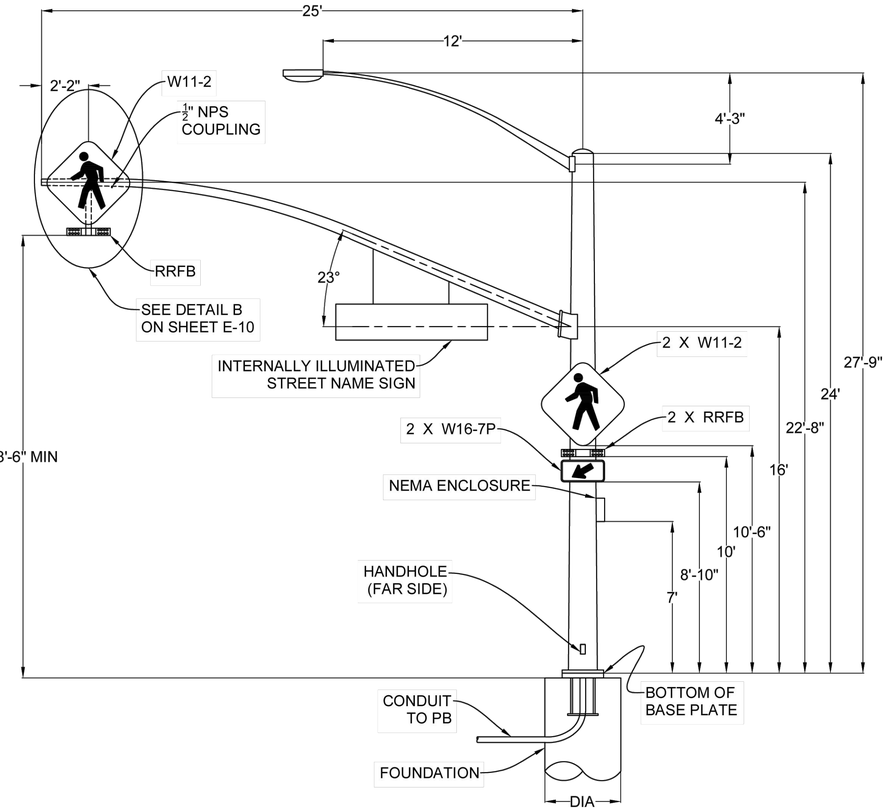
CITY OF TURLOCK

RECTANGULAR RAPID FLASHING BEACON SYSTEM PLAN SHEET
GEER RD & STARR AVE



POLE A: 29-5-100



POLE B: 19-3-100

R.C.E. 62971

06/05/2026
DATE

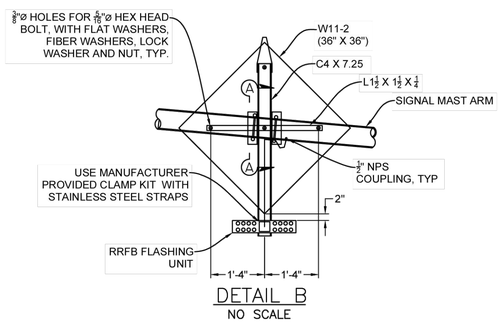
DESIGNED BY: J. BENAVIDES DRAWN BY: C. SANCHEZ CHECKED BY: J. BENAVIDES SCALE: NO SCALE DATE: 06/05/2026 JOB NO.: 058-003	NOTE: ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.	USA NORTH 811 Call 811 Before You Dig	SCALE 20 0 20 40	REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA	JLB TRAFFIC ENGINEERING, INC. 516 WEST SHAW AVENUE, SUITE 103 FRESNO, CALIFORNIA 93704 PHONE: (559) 570-8991 EMAIL: info@JLBtraffic.com	CITY OF TURLOCK MUNICIPAL SERVICES DEPARTMENT ROADS PROGRAM DIVISION 156 S. BROADWAY AVE SUITE 150 (209) 668-5520	**CITY OF TURLOCK** **RECTANGULAR RAPID FLASHING BEACON SYSTEM** **DETAIL SHEET** **GEER RD & STARR AVE**	Sheet 73 of 256 Sheets **E-11**

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P3-2. Geer Road at Starr Avenue RRFB\Geer Road at Starr Avenue RRFB.dwg

EQUIPMENT SCHEDULE

No.	STANDARD Type	STANDARD Sig. M.A.	STANDARD Lum.M.A.	AID ARROW	LED LUMINAIRE WATTAGE	SPECIAL REQUIREMENTS
(A)	24–3–100	35'	15'	LEFT	72 W	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS, INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL, AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH LIGHTBARS, ONE W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "20TH CENTURY BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
(B)	28–5–100	50'	–	–	–	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH TWO LIGHTBARS, TWO W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS. ONCE THE CONTRACTOR HAS VERIFIED THE PROPOSED POLE WILL MEET CPUC GO 95, THE EXISTING TREE AT THIS LOCATION WILL NEED TO BE REMOVED. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "20TH CENTURY BLVD" ON SMA COMPLETE WITH MOUNTING HARDWARE.
(C)	TYPE 2 POST (5'7")	–	–	LEFT	–	FURNISH AND INSTALL INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL. THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.

1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED WITH (E).
2. RECTANGULAR RAPID FLASHING BEACONS SHALL BE ELTEC, CARMANAH, JSF OR APPROVED EQUAL.
3. PEDESTRIAN CROSSING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN.



DETAIL B
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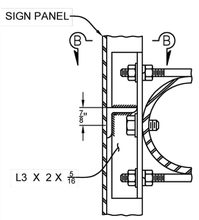

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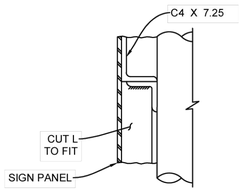

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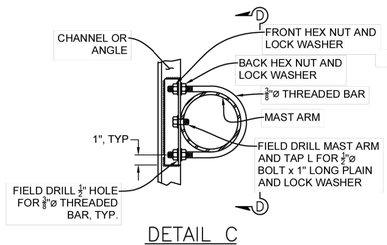
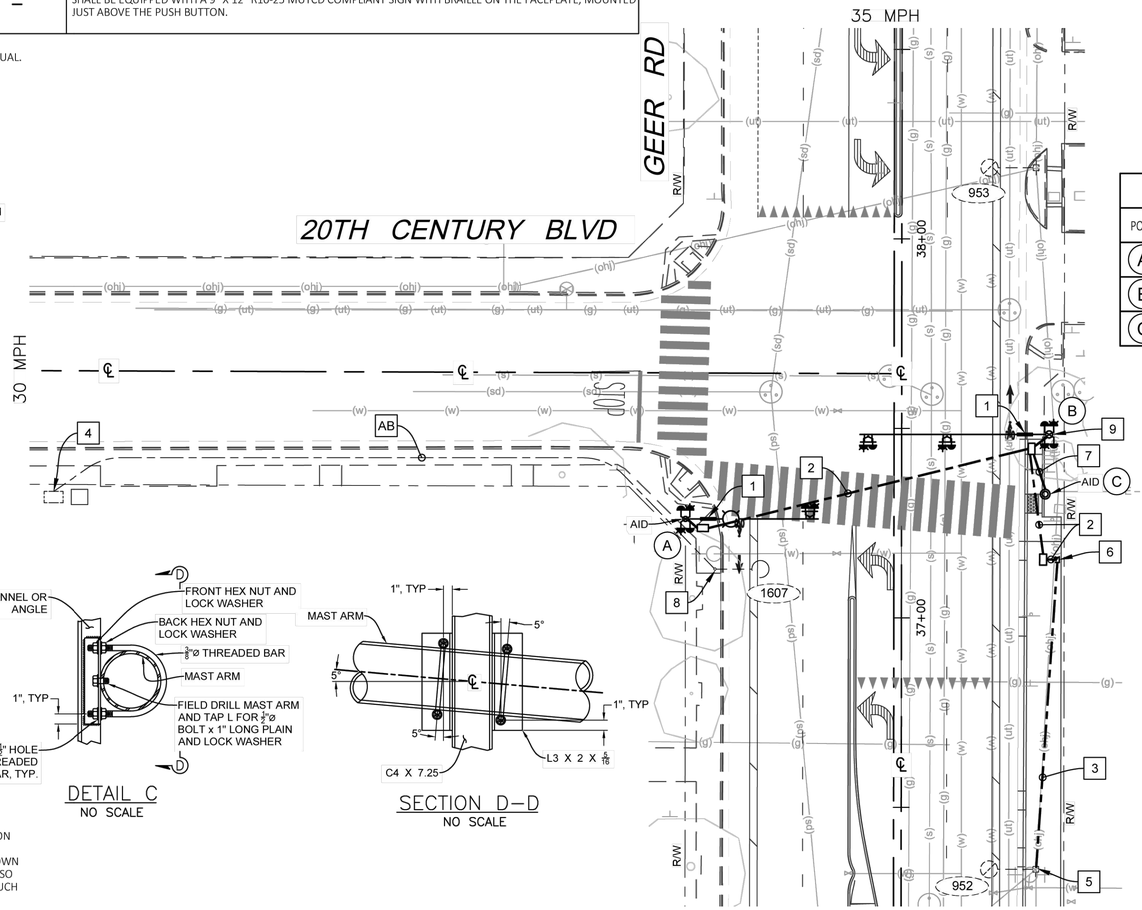


DETAIL C
NO SCALE

SECTION D–D
NO SCALE



POLE PLACEMENT LOCATION		
POLE	LOCATION	
(A)	GEER RD	STA 37 + 26.03, 57.03' L
(B)	GEER RD	STA 37 + 48.43, 39.02' R
(C)	GEER RD	STA 37 + 32.68, 38.00' R

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN ON SIGNAL MAST ARM COMPLETE WITH MOUNTING HARDWARE PER THE PROJECT SPECIFICATIONS.
2. FURNISH AND INSTALL 3" C WITH 2 #6 (RRFB), 2 #10 (LTG.), 2 #10 (IISNS) AND 1 #8 (GROUND).
3. FURNISH AND INSTALL 3" C WITH TID CONDUCTORS.
4. COORDINATE WITH TID TO DISCONNECT EXISTING STREET LIGHT CONDUCTORS.
5. CONTRACTOR TO COORDINATE WITH TID TO INSTALL RISER ON THE EXISTING TID WOOD POLE. CONTRACTOR TO COORDINATE WITH TID FOR TID TO CONNECT SERVICE CONDUCTORS TO THE TRANSFORMER.
6. FURNISH AND INSTALL 120/240 V, 3-WIRE, 1Ø, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE CIRCUIT BREAKERS SHOWN BELOW. CONTRACTOR SHALL COORDINATE WITH TID FOR POINT OF SERVICE CONNECTION AND METER SET.

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
15	120	1	RRFB	YES	———
30	240	2	LIGHTING	NO	V
15	120	1	LIGHTING CONTROL	YES	———
20	120	1	SPARE	YES	———

7. FURNISH AND INSTALL 1¼" C WITH PROPERLY RATED 6-CONDUCTOR CABLE WITH #18 AWG CONDUCTORS FOR THE AID. CONDUCTOR CABLE TO RUN FROM THE PROPOSED AID ON POLE C TO THE CONTROLLER ON POLE B.
8. REMOVE AND SALVAGE EXISTING LIGHTING STANDARD. COMPLETELY REMOVE AND DISPOSE OF THE EXISTING FOUNDATION. FILL FOUNDATION VOID WITH CLEANS FILL MATERIAL TO 90% RELATIVE COMPACTION.
9. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CENTERLINE CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS.

LEGEND (THIS SHEET ONLY):

- RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- BACK TO BACK RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- CENTER LINE
- AID — AUDIBLE INFORMATION DEVICE
- R/W — EXISTING RIGHT OF WAY
- AB — ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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 RRFB LOCATION OR LIGHTING CIRCUIT.
4. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL RRFB AND LIGHTING FACILITIES, INCLUDING STANDARDS, PULL BOXES, AND CONDUITS, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" RRFB STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN AUDIBLE INFORMATION DEVICE (AID) SYSTEM, OR APPROVED EQUAL, IN CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS. THE AID SHALL PROVIDE BOTH AN ARROW BUTTON AND AN AUDIBLE STANDARD MESSAGE OF "WARNING LIGHTS ARE FLASHING" DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE AID SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS.
11. THE EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
PHONE: (559) 570–8991
EMAIL: info@JLBtraffic.com

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

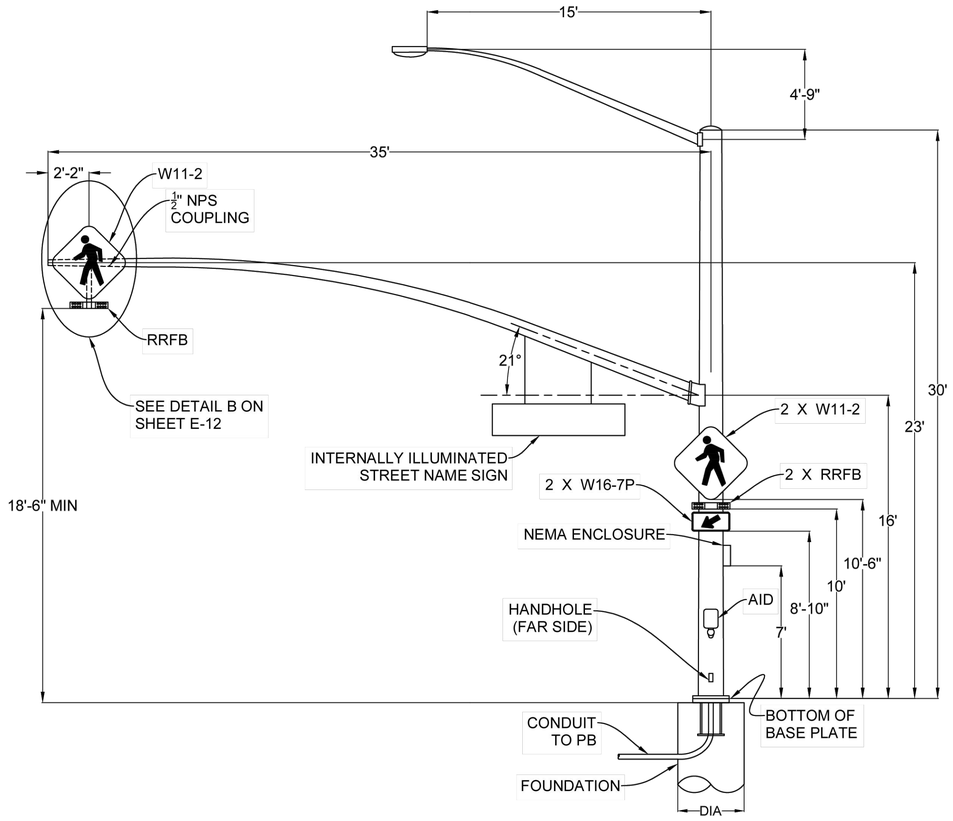
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
RECTANGULAR RAPID FLASHING BEACON SYSTEM PLAN SHEET
GEER RD & 20TH CENTURY AVE

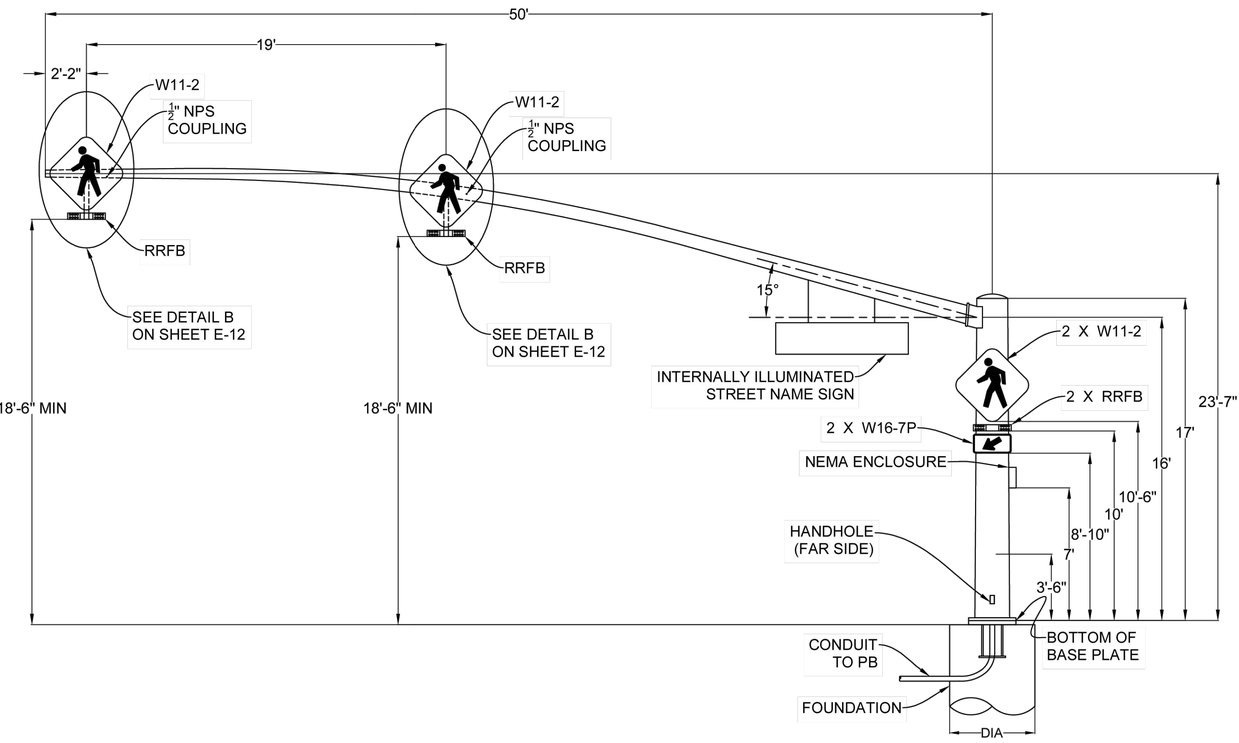
Sheet 74 of 256 Sheets

E-12

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P3-1, Geer Road at 20th Century Boulevard RRFB\Geer Road at 20th Century Boulevard RRFB.dwg



POLE A: 24-3-100



POLE B: 28-5-100

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	NO SCALE
DATE:	06/05/2026
JOB NO.:	058-003

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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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CITY OF TURLOCK

RECTANGULAR RAPID FLASHING BEACON SYSTEM
DETAIL SHEET
GEER RD & 20TH CENTURY AVE

Sheet 75 of 256 Sheets

E-13

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P3-1. Geer Road at 20th Century Boulevard RRFB\Geer Road at 20th Century Boulevard RRFB.dwg

CITY OF TURLOCK STREET LIGHTING GENERAL NOTES:

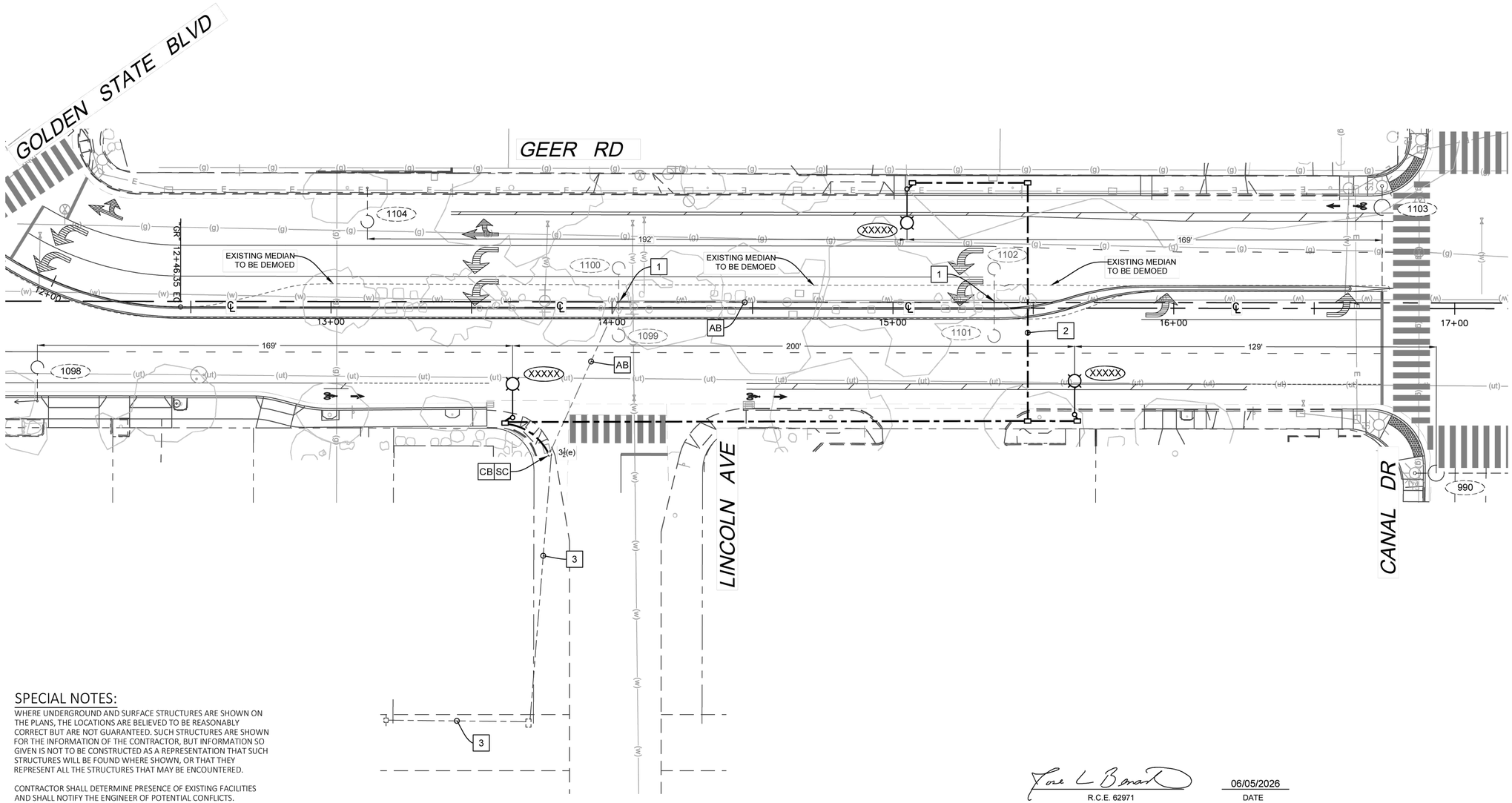
1. CONTACT T.I.D. PRIOR TO ENTERING UNDERGROUND SERVICE BOX OR PRIOR TO ATTACHING ANY MATERIAL TO T.I.D. POLES.
2. T.I.D. WILL COMPLETE CONNECTION OF 120V CIRCUIT UPON RECEIPT SIGNED APPLICATION FOR SERVICE FROM THE CITY OF TURLOCK.
3. MINIMUM CONDUIT COVER:
   24" BELOW CURB GRADE WITHIN THE PUBLIC RIGHT-OF-WAY.
   30" BELOW FINISH PROPERTY ELEVATION WITHIN PUBLIC UTILITY EASEMENT.
4. MAINTAIN 36" CLEARANCE IN FRONT OF INSPECTION PLATE.
5. WHERE ORNAMENTAL STREET LIGHTING IS USED IN LIEU OF THE CITY'S STANDARD STREET LIGHTING SYSTEM, ORNAMENTAL STREET LIGHT LUMINAIRES SHALL BE 55 WATT, PER CITY STANDARD DRAWING E-4.
6. ORNAMENTAL STREET LIGHTING IS NOT ALLOWED ON ARTERIAL STREETS OR AT INTERSECTIONS.
7. WHEN POLE LOCATIONS CONFLICT WITH A FIRE HYDRANT, CURB RAMP OR OTHER EXISTING OR PROPOSED FACILITY, PLACE AS DIRECTED BY THE CITY ENGINEER.
8. INSTALL IDENTIFICATION NUMBERS AS DIRECTED BY THE ENGINEER.
9. PULL BOXES SHALL BE PRECAST CONCRETE NO. 5, UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. REMOVE AND SALVAGE EXISTING TYPE 15D POLE, LUMINAIRE AND LUMINAIRE MAST ARM. COMPLETELY REMOVE AND DISPOSE OF THE EXISTING FOUNDATION. FILL FOUNDATION VOID WITH CLEAN FILL MATERIAL TO 95% RELATIVE COMPACTION.
2. INSTALL 3" CONDUIT WITH 3 #6 (LTG) AND 1 #8 (GROUND).
3. EXISTING CONDUIT WITH STREET LIGHTING CONDUCTORS.

LEGEND (THIS SHEET ONLY):

- INSTALL STREET LIGHT PER CITY STD. E-2 AND E-5.
- EXISTING STREET LIGHT.
- FURNISH AND INSTALL PRECAST CONCRETE No. 5 PULL BOX, UNLESS OTHERWISE NOTED.
- INSTALL 1" CONDUIT PER CITY STD. E-3 WITH 3 #6 (LTG) AND 1 #8 (GROUND), UNLESS OTHERWISE NOTED.
- XXXXX — STREET LIGHT NUMBER.
- ℄ — CENTER LINE
- AB — ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB — INSTALL CONDUIT INTO EXISTING PULL BOX
- SC — SPLICE NEW TO EXISTING CONDUCTORS



SPECIAL NOTES:

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CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

José L Benavides
R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\09 Street Lighting Designs\Package 3\Geer Road Street Lighting.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSE LUIS BENAVIDES — No.C 62971 Exp:06/30/26 CIVIL — STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
MODIFYING STREET LIGHTING SYSTEM
PLAN SHEET
GEER RD BETWEEN
GOLDEN STATE BLVD AND CANAL DR

Sheet 76 of 256 Sheets

E-14

CITY OF TURLOCK

CONSTRUCTION PLANS FOR ROADS PROGRAM CAPITAL IMPROVEMENT PROJECT

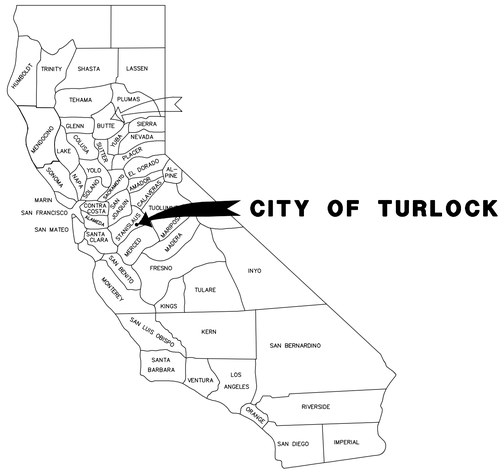
FEDERAL PROJECT: RSTPL-5165(103)

CITY PROJECT NO. 23-052

GEER ROAD
PAVEMENT REHABILITATION PROJECT
PHASE 2

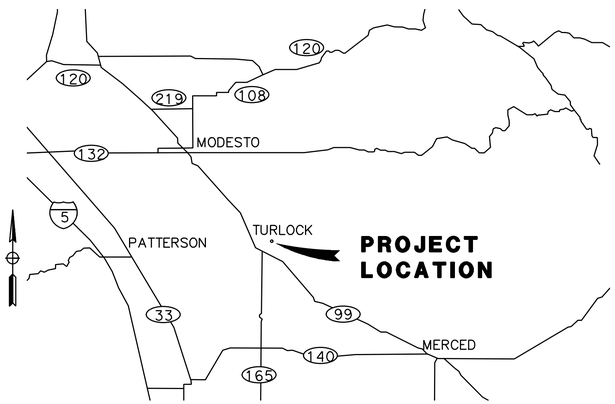
GEER RD: HAWKEYE AVE TO MONTE VISTA AVE

SUPPLEMENTED BY CALTRANS STANDARD PLANS
AND STANDARD SPECIFICATIONS DATED 2025
AND CITY OF TURLOCK ENGINEERING DESIGN STANDARD
SPECIFICATIONS AND DRAWINGS DATED 2016.



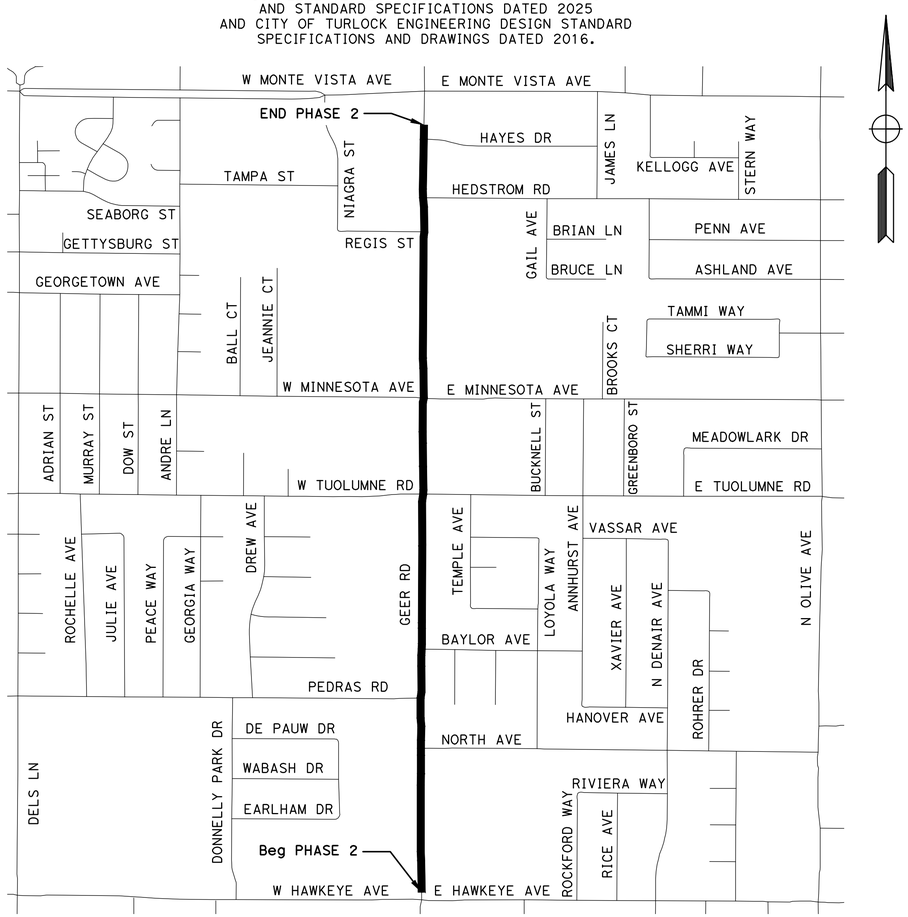
CALIFORNIA STATE MAP

NO SCALE



VICINITY MAP

NO SCALE



PROJECT LOCATION MAP

NO SCALE

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UTILITY CONTACTS

UTILITY	CONTACT	PHONE
AT&T	RICHARD ABALLE	(209) 281-6739
CVIN	BILL KENIK	(559) 919-2467
CHARTER COMMUNICATIONS	MITCHELL KEELE	(209) 633-3346
TID ELECTRICAL	DAVID PORATH	(209) 605-0945
TID IRRIGATION	BILL PENNEY	(209) 883-8385
CITY OF TURLOCK ELECTRICAL	DOYLE PERRY	(209) 668-5590
CITY OF TURLOCK STORM AND SEWER	CARLOS GUERRERO	(209) 345-2169
CITY OF TURLOCK WATER	ORLANDO GUTIERREZ	(209) 740-3868
PG&E DISTRIBUTION	TRENT MILLSAP	(209) 561-6070
PG&E TRANSMISSION	MARTIN OCHOA	(925) 332-6076

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL
"UNDERGROUND SERVICE ALERT" (USA)
AT 811 AT LEAST 2 WORKING DAYS
PRIOR TO PERFORMING ANY EXCAVATION

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
TITLE SHEET

Sheet 77 of 256 Sheets

T-1

GENERAL NOTES:

1. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR. JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

2. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTER LINE OF THE STREET. ALL STATIONS ON THE CURBS ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTER LINE STATIONS, UNLESS OTHERWISE NOTED.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES.

4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT EDITION OF STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

5. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS; AND THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. CITY OF TURLOCK STANDARD DRAWINGS ARE AVAILABLE AT THE MUNICIPAL SERVICES DEPARTMENT.

6. CONSTRUCTION STAKING AND SURVEY IS THE RESPONSIBILITY OF THE CONTRACTOR. CONSTRUCTION STAKING SHALL BE PERFORMED BY A REGISTERED SURVEYOR OR ENGINEER RETAINED AND PAID FOR BY THE CONTRACTOR. THE SURVEYOR OR ENGINEER SHALL CERTIFY ON THE FINAL CONSTRUCTION DRAWING THAT THE STAKING WAS PERFORMED ACCORDING TO THE APPROVED PLANS.

7. TO SCHEDULE AN INSPECTION, THE CONTRACTOR SHALL CALL ROADS PROGRAM CONSTRUCTION INSPECTOR (209)668-5520, AT LEAST 24-HOURS PRIOR TO THE REQUIRED INSPECTION. THE CITY MUNICIPAL SERVICES DEPARTMENT WILL MAKE EVERY EFFORT TO PERFORM THE INSPECTION WITHIN THE NEXT BUSINESS DAY.

8. THE CITY OF TURLOCK OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION AND A 48 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.

9. DUST SHALL BE CONTROLLED BY THE CONTRACTOR AT ALL TIMES, INCLUDING HOLIDAYS AND WEEKENDS, PER SECTION 10 OF THE 2025 STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND THE CITY OF TURLOCK STANDARD SPECIFICATIONS. WATER USED FOR DUST CONTROL AND COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO THE START OF ANY WORK, AND ANY FEES OR DEPOSITS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CLEANLINESS OF THE EXISTING IMPROVED STREETS IN THE CONSTRUCTION AREA.

10. THE CONTRACTOR IS REQUIRED TO MAINTAIN PUBLIC SAFETY AT ALL TIMES. ANY OPERATION OR SITUATION THAT THREATENS THE SAFETY OF THE WORKERS OR PUBLIC, INCLUDING IMPROPER TRAFFIC CONTROL, WILL CAUSE THE SUSPENSION OF WORK UNTIL CORRECTIONS ARE MADE AND NO ADJUSTMENTS TO WORKING DAYS WILL BE GRANTED.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CLEAN AND SAFE WORKSITE AT ALL TIMES. IF THE CONTRACTOR FAILS TO MAINTAIN A CLEAN WORKSITE, THE CITY MAY ORDER STREET SWEEPING OR ORDER CORRECTIVE ACTION AT COST TO THE CONTRACTOR.

12. MATERIALS TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE ENGINEER.

13. STANDARD DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS, SHOWN THUS; (i E. STD C-1)

14. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PRIOR TO THE EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH. UTILITY TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE TRENCHING AND COMPACTION REQUIREMENTS OF THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS. REFER TO STD T—1, T-2, AND T-3. ERRATA 1 2019 TRENCHING DETAILS.

15. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATIONS OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.

17. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED. ALL EXISTING MANHOLE LIDS WITHIN LIMITS OF STREET IMPROVEMENT SHALL BE MARKED AND TIED TO SURVEY PRIOR TO ADJUSTMENT.

18. FOR ALL WORK PERFORMED WITHIN PUBLIC RIGHT-OF—WAYS, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT, PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES, AND PROVIDE NECESSARY CONSTRUCTION TRAFFIC CONTROL FOR STREET IMPROVEMENTS. THE CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY THE NEED FOR ANY DETOUR PLAN WITH THE CITY OF TURLOCK. IF A PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE APPROVAL PRIOR TO CONSTRUCTION.

19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.

20. THE CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771(b) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS. PRESERVATION OF EXISTING MONUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. THE ENGINEER WILL TIE OFF SAID MONUMENTS AND PROVIDE THE CONTRACTOR NOTICE TO PROCEED.

21. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF TURLOCK ARE FOLLOWED AS WELL AS TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (USA) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER (800)-642-2444, THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO POSITIVELY LOCATE (POTHOLE) AND PROTECT ALL EXISTING UTILITIES THAT MAY CONFLICT WITH ANY WORK ASSOCIATED WITH THIS CONTRACT SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY NECESSARY REPAIRS TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.

22. THE CONTRACTOR SHALL REACH OUT TO AFFECTED RESIDENTS PRIOR TO CONSTRUCTION TO INFORM THEM OF THE RELOCATION OF ANY FENCE OR VEGETATION.

23. THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND/OR IRRIGATION DISTURBED DURING CONSTRUCTION ACTIVITIES AND REPLACE LANDSCAPING WITH SOD WHERE GRASS IS DISTURBED. THE CONTRACTOR SHALL RELOCATE SPRINKLERS AS NECESSARY SO AS TO WATER OWNER'S LANDSCAPING, BUT NOT NEW CONCRETE SURFACES, TYPICAL OF ALL LOCATIONS WHERE GRASS OR BUSHES HAVE BEEN PLANTED BY OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IRRIGATION IN THE CASE OF ANY INTERRUPTION OF SERVICE, INCLUDING DURING HOLIDAYS AND WEEKENDS. ANY DEAD LANDSCAPING DUE TO CONSTRUCTION ACTIVITIES OR INTERRUPTION OF IRRIGATION SERVICE SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.

24. WITHIN LIMITS OF THE PROJECT, WHERE EXISTING CURB IS REPLACED, ANY PAINT ON THE EXISTING CURB SHALL BE REPLACED IN KIND ON THE NEW CURB. THIS INCLUDES BUT IS NOT LIMITED TO RED CURB, WHITE CURB, AND HOUSE NUMBERS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING TREES, SHRUBS AND OTHER PLANTS THAT ARE NOT TO BE REMOVED. OVERHEAD UTILITY POLES/LINES, FENCES, SIGNS, MARKERS AND MONUMENTS, BUILDINGS AND STRUCTURES, CONDUITS, PIPELINES UNDER OR ABOVE GROUND, SEWER AND WATER LINES, SPRINKLER SYSTEMS ABOVE OR BELOW GROUND, ALL ROADWAY FACILITIES, AND ANY OTHER IMPROVEMENTS OR FACILITIES WITHIN OR ADJACENT TO THE RIGHT-OF—WAY SHALL BE PROTECTED BY THE CONTRACTOR FROM INJURY OR DAMAGE. IF ORDERED BY ENGINEER, THE CONTRACTOR SHALL PROVIDE AND INSTALL SUITABLE SAFEGUARDS, APPROVED BY ENGINEER, TO PROTECT SUCH OBJECTS FROM INJURY OR DAMAGE.

26. THE CONTRACTOR SHALL COMPLETE ALL REQUIRED EARTHWORK, GRADING, AND INITIAL PAVING (FIRST LIFT) WITHIN EIGHT (8) CALENDAR DAYS AFTER PAVEMENT REMOVAL. THE CONTRACTOR IS NOT ALLOWED TO DEMO ALL OF THE PEDESTRIAN CURB RAMPS AT THE SAME TIME. THE CONTRACTOR SHALL SCHEDULE THE CURB RAMP REPLACEMENT WORK TO PROVIDE PEDESTRIAN ACCESS AT ALL TIMES.

27. NEW OR REPLACED CURB AND GUTTER, SIDEWALK, OR DRIVEWAY SHALL INCLUDE NECESSARY GRADING BEHIND THE IMPROVEMENT TO CONFORM TO EXISTING CONDITION, UP TO 5 FEET OR TO THE CITY RIGHT-OF-WAY. WHERE ANY CONSTRUCTION ACTIVITY MAY ENCROACH INTO PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

CLEARING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING AND GRUBBING, PRUNING AND REMOVING TREE ROOTS THAT INTERFERE WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO TREE ROOTS ARE PRUNED OR CUT THAT COULD COMPROMISE THE STABILITY OF THE TREE. THE CONTRACTOR SHALL RETAIN AN ARBORIST, AT THEIR OWN EXPENSE PRIOR TO BEGINNING THE WORK. THE CONTRACTOR'S ARBORIST SHALL PROVIDE A WORK PLAN THAT DESCRIBES THE METHOD OF PRUNING AND REMOVING MINOR TREE ROOTS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE ARBORIST WILL PROVIDE RECOMMENDATIONS FOR REVIEW BY THE CITY.

DUST CONTROL NOTES:

1. SPRAY WATER ON ALL EXPOSED EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING AND OTHER SITE PREPARATION ACTIVITIES THROUGHOUT THE DAY TO MINIMIZE DUST. USE TARPAULINS OR OTHER EFFECTIVE COVERS ON ALL STOCKPILED EARTH MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST. SWEEP THE ADJACENT STREET FRONTAGES AT LEAST ONCE A DAY OR AS NEEDED TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. ENSURE THAT CONSTRUCTION VEHICLES ARE CLEANED PRIOR TO LEAVING THE SITE TO PREVENT DUST AND DIRT FROM BEING TRACKED OFF SITE.

2 ALL EXPOSED SURFACES SHALL BE WATERED A MINIMUM OF TWICE DAILY, INCLUDING ON HOLIDAYS AND WEEKENDS, UNLESS DEEMED UNNECESSARY DUE TO WEATHER. WATER SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

3. DUST PALLIATIVES MAY BE SUBSTITUTED FOR WATERING UPON THE APPROVAL OF THE ENGINEER. DUST PALLIATIVES SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

STORM WATER POLLUTION PREVENTION:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SIGNED AND CERTIFIED BY A QUALIFIED SSWPP DEVELOPER (QSD). ONCE APPROVED, CONTRACTOR SHALL SUBMIT SWPPP AND NOTICE OF INTENT (NOI) WITH THE CALIFORNIA DEPARTMENT OF WATER QUALITY CONTROL BOARD. THE CONTRACTOR SHALL ADHERE TO THE SWPPP AT ALL TIMES. THE CONTRACTOR SHALL FILE THE ANNUAL REPORT, AND NOTICE OF TERMINATION (NOT) WHEN THE PROJECT IS COMPLETED.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES:

1. ALL STRIPING AND SIGN PANELING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION REVISION 9, DATED JANUARY 8, 2026.

CITY OF TURLOCK STANDARD PLANS

VERTICAL CURB, CURB AND GUTTER, VALLEY GUTTER	C-1
RESIDENTIAL AND COMMERCIAL SIDEWALK	C-3
RESIDENTIAL DRIVEWAY APPROACH	C-5
COMMERCIAL DRIVEWAY APPROACH	C-8
DETECTABLE WARNING SURFACE	C-15
MID-BLOCK BUS TURNOUT	ST-16
STANDARD MEDIAN NOSE	ST-17
STANDARD MANHOLE	S-3
MANHOLE FRAME AND COVER	S-5
CATCH BASIN NO. 3	SD-3
LINE VALVE	W-5
WATER VALVE BOX	W-6

CALTRANS STANDARD PLANS

ABBREVIATIONS	A3A-A3C
LEGEND	A10A-A10E
PAVEMENT MARKERS AND TRAFFIC LINES	A20A-A20G
PAVEMENT MARKINGS	A24A-A24H
EXCAVATION AND BACKFILL	A62A
DRIVEWAY DETAILS	A87A
CURB RAMP DETAILS	A88A

**USE LATEST VERSION 2025 OF REVISED STANDARD PLANS PER CALTRANS WEBSITE

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MORIEGA — No. 41656 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GENERAL NOTES

Sheet 78 of 256 Sheets

GN-1

LEGEND:

- DETECTABLE WARNING SURFACE
- MINOR CONCRETE (CURB, GUTTER, VALLEY GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (DRIVEWAY APPROACH)
- HMA MISC AREA (DRIVEWAY APPROACH)
- REMOVE CONCRETE (CURB, GUTTER, VG, AND SIDEWALK)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT
- MINOR CONCRETE (MEDIAN PAVING)
- LANDSCAPING (SEE LANDSCAPING SHEETS)

- RECONSTRUCT WITH 0.4' HMA / 1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- Exist FENCE
- CITY OF TURLOCK RIGHT OF WAY (R/W)
- PARCEL LINES
- FILL
- CUT

- BEGIN/END OF TRAFFIC STRIPE DETAIL
- CHANGE OF TRAFFIC STRIPE DETAIL
- X–X TRAFFIC STRIPE DETAIL NUMBER
- LL LIMIT LINE
- CONTINENTAL CROSSWALK
- "STOP" PAVEMENT MARKING
- POTHOLE LOCATION
- POTHOLE NUMBER
- STREET LIGHT
- EXIST STREET LIGHT
- EXIST MANHOLE
- EXIST STORM DRAIN INLET
- PROPOSED STORM DRAIN INLET
- EXIST FIRE HYDRANT
- EXIST POWER POLE
- EXIST GUY WIRE
- EXIST UTILITY BOX
- EXIST WATER VALVE
- EXIST SIGN
- PROPOSED SIGN

UTILITY OWNERSHIP ON THIS PROJECT:

GAS	-	PG&E GAS
FIBER OPTIC (UG)	-	CVIN
SEWER	-	CITY OF TURLOCK
WATER	-	CITY OF TURLOCK
JOINT OVERHEAD	-	CHARTER COMMUNICATIONS & TID ELECTRIC
JOINT OVERHEAD	-	AT&T, CHARTER COMMUNICATIONS, AND TID ELECTRIC
STORM DRAIN	-	CITY OF TURLOCK
TELECOMMUNICATIONS (OH)	-	AT&T
ELECTRICAL	-	TID ELECTRICAL
TELECOMMUNICATIONS	-	CHARTER COMMUNICATIONS
TELECOMMUNICATIONS	-	AT&T
ELECTRICAL (TRAFFIC)	-	CITY OF TURLOCK

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
ASC	ASBESTOS CEMENT
AVE	AVENUE
BC	BEGIN CURVE
Beg	BEGIN
BFC	BOTTOM FACE OF CURB
BOC	BACK OF CURB
BOW	BACK OF WALK
CG	CURB AND GUTTER
CL	CENTERLINE
Conc	CONCRETE
CR	CURB RAMP
CST	CITY STANDARD
DWY	DRIVEWAY
DG	DECOMPOSED GRANITE
EC	END CURVE
Elev	ELEVATION
EP	EDGE OF PAVEMENT
Ex	EXISTING
Exist	EXCAVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
GB	GRADE BREAK
GM	GAS MAIN PIPELINE
GS	GAS SERVICE
GV	GATE VALVE
L	LENGTH
Lt	LEFT
Met	METALLIC (IRON, STEEL, COATED)
Mod	MODIFIED
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
Pave	PAVEMENT
PG	PROPOSED GRADE
PRC	POINT OF REVERSING CURVE
Rem	REMOVE
R/W	RIGHT OF WAY
Reconst	RECONSTRUCT
Rt	RIGHT
SAW	SAWCUT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHLD	SHOULDER
SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TFC	TOP FACE OF CURB
Var	VARIES, VARIABLE
VG	VALLEY GUTTER
WM	WATER MAIN
WV	WATER VALVE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
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USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — JORDAN A. MORIEGA — No. 81558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK
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SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GENERAL NOTES

NOTES:

1. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.

2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE AT CONTRACTOR'S COST.

3. CONTRACTOR SHALL PROVIDE THE AGENCY A MINIMUM OF TWO (2) WEEKS NOTICE PRIOR TO COMMENCING ANY WORK THAT COULD DAMAGE OR DESTROY ANY SURVEY MONUMENTS.

4. CONTRACTOR IS TO USE ONE OR MORE OF THE GPS BASE POINTS TO FIRST ESTABLISH THEIR CONTROL FOR THE PROJECT. CONTRACTOR SHALL CHECK SHOTS TO OTHER PROVIDED CONTROL POINTS TO VERIFY HORIZONTAL AND VERTICAL INFORMATION IS ACCURATE.

HORIZONTAL DATUM

HORIZONTAL DATUM IS BASED ON THE CITY OF TURLOCK G.P.S. CONTROL NETWORK SURVEY FILED IN BOOK 20 OF SURVEYS AT PAGE 56, STANISLAUS COUNTY RECORDS. SAID SURVEY IS BASED ON THE 1983 NORTH AMERICAN DATUM AND ADJUSTMENT AS SHOWN ON THE FACE OF SAID SURVEY. POINTS H12 AND L9 AS SHOWN ON THE SURVEY WERE USED AS THE BASE CONTROL FOR THIS PROJECT.

COORDINATE SYSTEM

THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE III.

VERTICAL DATUM

ELEVATIONS BASED ON THE CITY OF TURLOCK BENCHMARK SYSTEM.

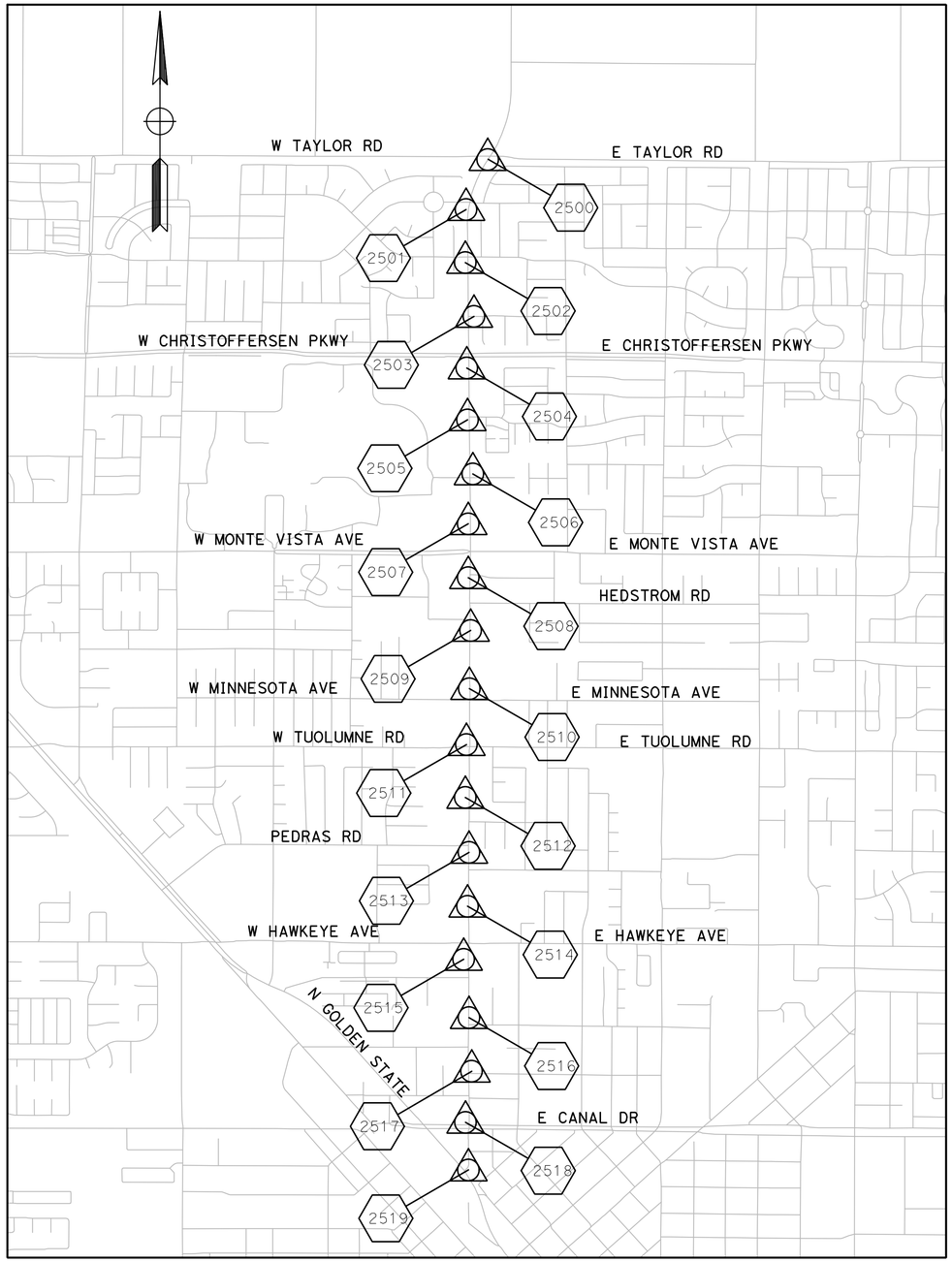
LEGEND:

△ CONTROL POINT LOCATION (No.) CONTROL POINT NUMBER

PROJECT VERTICAL BENCHMARKS		
BENCHMARK ID	ELEVATION	DESCRIPTION
13-1-3	110.059	FOUND BRASS PLUG NW CORNER ON EAST MARSHALL AT DAUENBERGER ROAD
14-210	101.168	FOUND BRASS PLUG NE CORNER ON GEER AT GOLDEN STATE BOULEVARD
22-4-2	98.282	FOUND BRASS PLUG SW CORNER ON ORANGE AT HIGH STREET
24-3-1	105.563	FOUND BRASS PLUG SE CORNER ON SOUTH BERKELEY AT EAST AVENUE

GPS BASE POINT TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2004921.432	6464890.307	105.949	SVRB-SET 5\8IN
1100	2013970.675	6460372.077	107.404	SVRB-FND 5\8IN
1101	2011319.466	6456042.177	101.429	SVRB-FND 5\8IN

SURVEY CONTROL TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
2500.0000	2018038.536	6460719.948	112.275	SVCP NW COR STOP BAR
2501.0000	2017358.041	6460426.105	112.230	SVCP ARROW TIP
2502.0000	2016637.218	6460415.718	109.359	SVCP ARROW TIP
2503.0000	2015903.793	6460534.171	108.450	SVCP SW COR STOP BAR
2504.0000	2015201.276	6460434.860	108.803	SVCP ARROW TIP
2505.0000	2014495.201	6460444.797	108.107	SVCP SE INSIDE COR PARKING +
2506.0000	2013758.496	6460518.083	106.912	SVCP SW COR HELMET
2507.0000	2013080.372	6460456.500	107.261	SVCP SE INSIDE COR PARKING +
2508.0000	2012345.971	6460455.737	106.393	SVCP SW COR OF 5
2509.0000	2011627.245	6460489.012	106.501	SVCP SW COR WS
2510.0000	2010834.928	6460470.848	105.765	SVCP NE COR WS
2511.0000	2010073.397	6460430.185	103.965	SVCP SE INSIDE COR XWALK STRIPE
2512.0000	2009353.420	6460416.580	103.537	SVCP SOUTH MOST ARROW TIP
2513.0000	2008605.696	6460466.407	105.278	SVCP NE COR XWALK STRIPE
2514.0000	2007872.439	6460446.180	105.613	SVCP SE WS E BOUND
2515.0000	2007149.169	6460393.214	103.063	SVCP ARROW TIP
2516.0000	2006355.974	6460464.836	103.069	SVRB - D10 5/8" RBR IN PVC WELL WITH WATER VALVE COVER
2517.0000	2005625.991	6460502.255	100.925	SVCP NE COR XWALK STRIPE
2518.0000	2004930.450	6460418.213	102.465	SVCP SW XWALK STRIPE
2519.0000	2004280.335	6460458.623	101.401	SVCP MAG NW COR STRIPE



SURVEY POINTS MAP

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=1000'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
1000 0 1000 2000

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ENRIGA — No. 61511 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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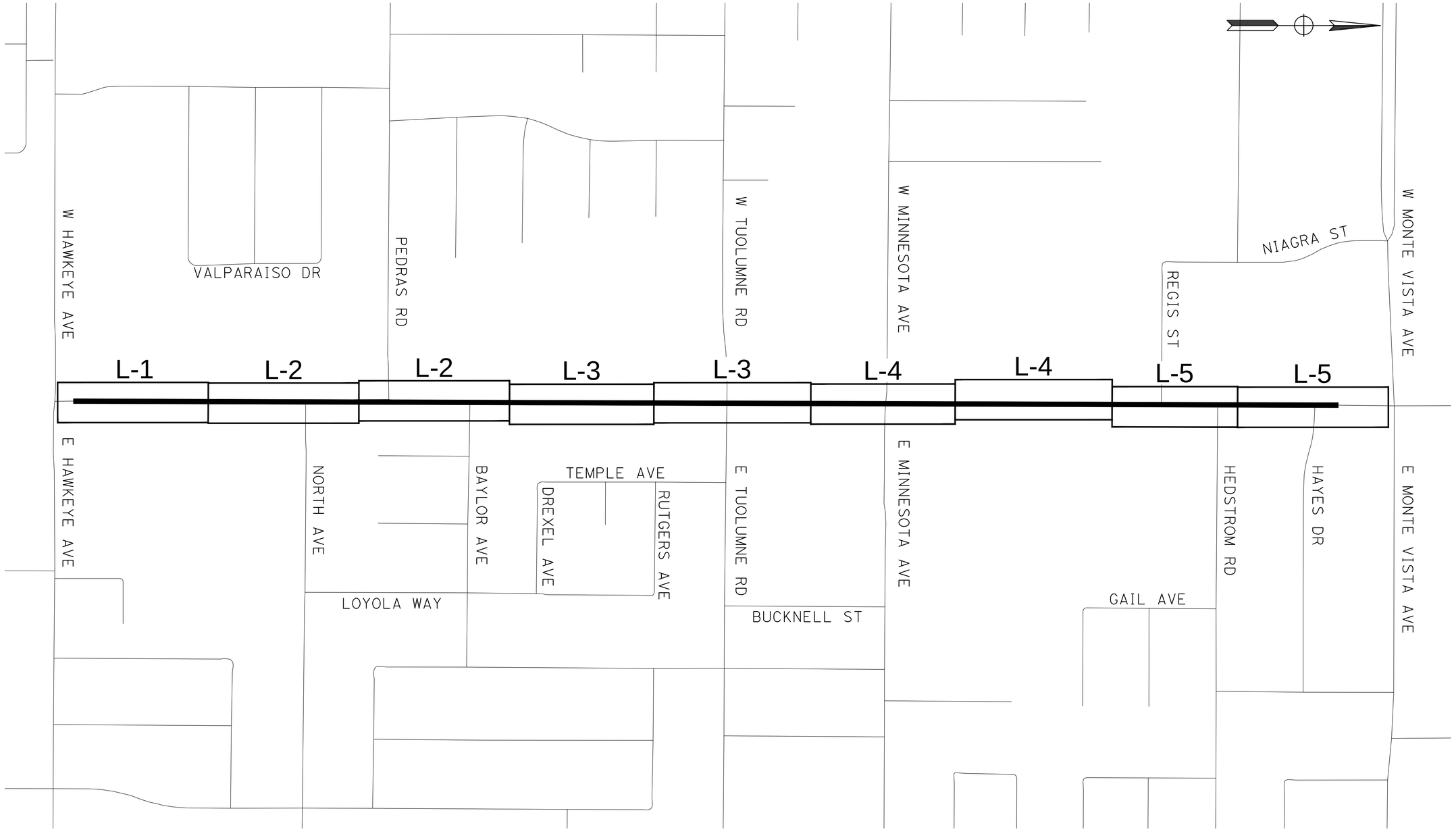
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
PROJECT CONTROL

Sheet 80 of 256 Sheets

PC-1



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=300'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER
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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
KEY MAP

K-1

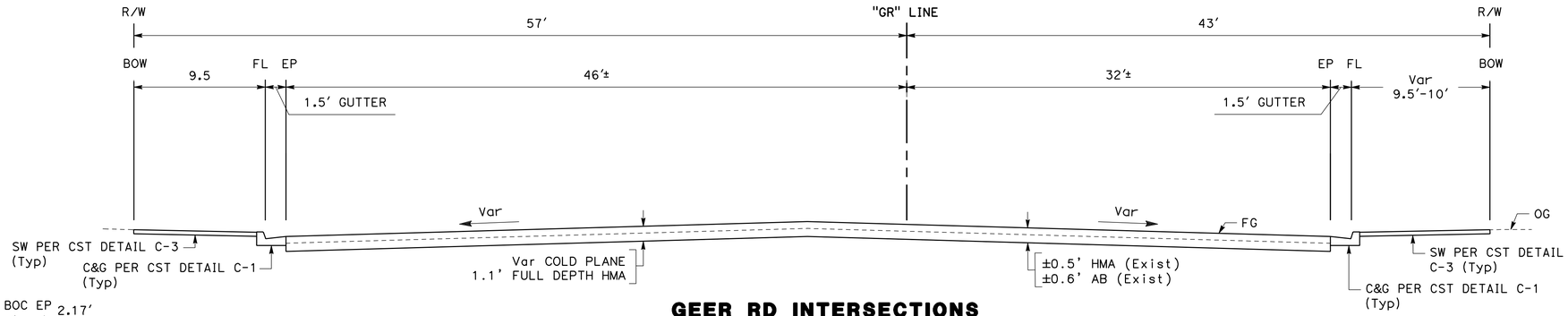
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA SEE RIGHT OF WAY RECORD MAPS AT CITY OF TURLOCK OFFICE.
2. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. SUBGRADE CROSS SLOPE TO BE THE SAME AS TYPICAL SURFACE CROSS SLOPE UNLESS OTHERWISE NOTED.
4. FOR LOCATIONS OF PAVEMENT REHABILITATION, SEE LAYOUT SHEETS.
5. CONSTRUCT 6" CURB AND GUTTER PER CITY STD C-1, AND DRIVE-OVER CURB AND GUTTER PER DETAILS ON CD-3, FOR LOCATIONS AND LIMITS OF CURB AND GUTTER REPLACEMENT; SEE LAYOUT SHEETS.
6. CONSTRUCT CONCRETE SIDEWALK PER CITY STD C-3. FOR LOCATIONS AND LIMITS OF SIDEWALK REPLACEMENT, SEE LAYOUT SHEETS.
7. PAVEMENT SHALL BE REPLACED AS SHOWN. ON LAYOUTS CROSS SLOPE OF PAVEMENT SHALL MAINTAIN POSITIVE DRAINAGE. THERE SHALL BE NO LOW POINTS COLLECTING SURFACE RUNOFF.
8. EXISTING CURB, GUTTER, SIDEWALK, AND DRIVEWAY SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON THE PLANS.
9. DIMENSIONS SHOWN IN TYPICAL SECTIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS WITH THE ENGINEER IN THE FIELD.
10. REMOVAL OF EXISTING PAVEMENT INCLUDES ASPHALT, AGGREGATE BASE, AND SUB BASE AS NECESSARY TO ACHIEVE REQUIRED REMOVAL DEPTH.
11. WHERE THE ENTIRE EXISTING ASPHALT LAYER IS REMOVED, COMPACT AND PREPARE BASE/SUBGRADE PRIOR TO PLACING HMA.
12. SEE PLANS FOR PROPOSED PAVEMENT TREATMENT WITHIN INTERSECTION GRADING LIMITS, WHERE APPLICABLE.
13. WHERE NECESSARY, EMBANKMENT SLOPES (4:1 OR FLATTER) SHALL BE USED TO CONFORM TO EXISTING GROUND ELEVATIONS BEYOND THE PROPOSED BACK OF WALK OR BACK OF CURB.
14. AS SHOWN ON THE DM SHEETS AND THE TYPICAL CURB, GUTTER, AND SIDEWALK REMOVAL DETAIL (DM-1), PROVIDE A 2-FOOT-WIDE SAWCUT STRIP ADJACENT TO THE PROPOSED CURB AND GUTTER, MEASURED FROM THE PROPOSED GUTTER LIP (NOT THE EXISTING GUTTER LIP). FOR DETAILS REGARDING SAWCUTS AT MEDIANS, SEE CONSTRUCTION DETAIL SHEETS.
15. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
16. EXISTING PAVEMENT DEPTHS ARE AVERAGES BASED ON CORING PAVEMENT RESULTS. REFER TO THE GEOTECHNICAL REPORT FOR EXACT EXISTING PAVEMENT SECTION DEPTHS ALONG THE CORRIDO
17. CONTRACTOR'S ATTENTION IS BROUGHT TO THE EXISTENCE OF PAVING FABRIC FOUND DURING GEOTECHNICAL EXPLORATION WITHIN THE EXISTING PAVEMENT SECTION. WHERE PAVING FABRIC IS ENCOUNTERED, PRE-MILL AND REMOVE THE TOP LAYER OF THE EXISTING ASPHALT WITH PAVING FABRIC PRIOR TO CONDUCTING FDR.

DESIGN DESIGNATION:

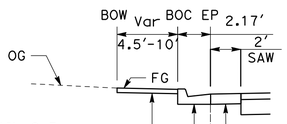
R-VALUE = 41 - GEER RD: HAWKEYE AVE TO MONTE VISTA AVE

TI-VALUE = 10 - GEER RD
11 - TUOLUMNE RD, MINNESOTA AVE, & REGIS ST INTERSECTIONS

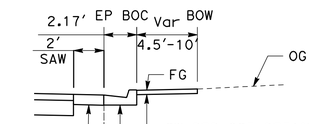


GEER RD INTERSECTIONS

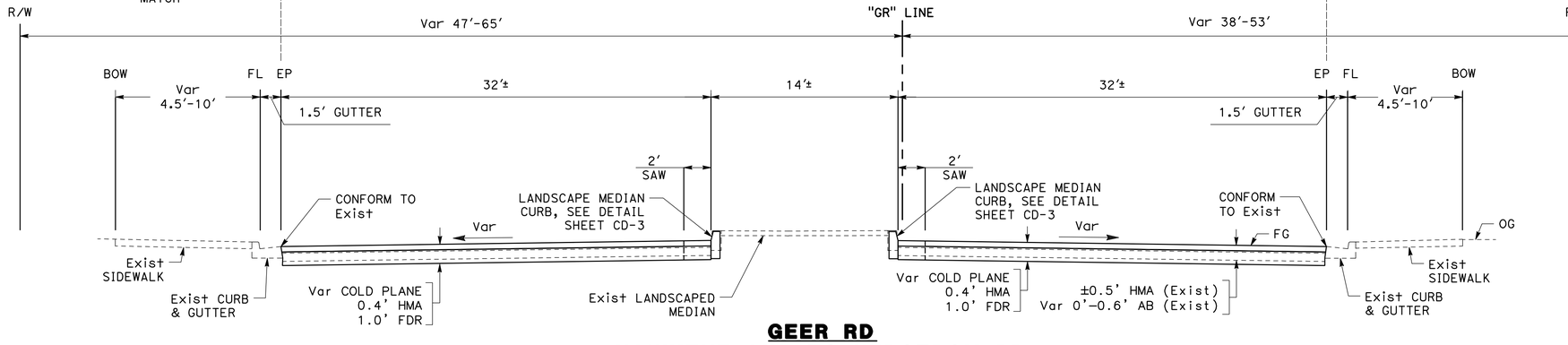
"GR" 68+45.31 TO 69+83.08
"GR" 74+92.07 TO 76+02.99
"GR" 85+88.72 TO 86.86.10



"GR" 44+15.28 TO 53+35.42
"GR" 56+13.36 TO 57+02.87
"GR" 58+52.24 TO 60+76.72
"GR" 63+63.55 TO 64+28.45
"GR" 66+91.31 TO 68+57.38
"GR" 71+62.13 TO 75+08.43
"GR" 77+60.12 TO 78+81.67



"GR" 43+12.72 TO 51+97.16
"GR" 52+81.58 TO 53+79.61
"GR" 55+11.69 TO 55+58.41
"GR" 59+23.58 TO 66+31.45
"GR" 70+33.05 TO 70+97.80
"GR" 72+62.48 TO 73+07.58
"GR" 86+83.32 TO 88+16.65



GEER RD
HAWKEYE AVE TO HEDSTROM RD

"GR" 43+12.72 TO 68+45.31
"GR" 69+83.08 TO 74+92.07
"GR" 76+02.99 TO 85+88.72
"GR" 86+86.10 TO 90+01.58

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER JOSHUA R. HERRIEGA No. C 85878 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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SUITE 150
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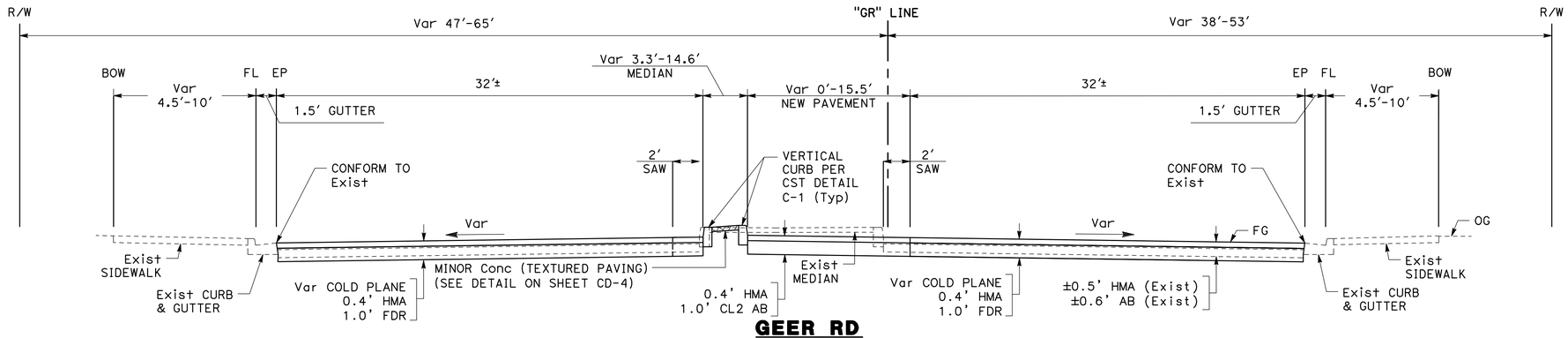
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
TYPICAL SECTIONS

Sheet 82 of 256 Sheets

X - 1



GEER RD
HEDSTROM RD TO MONTE VISTA AVE

"GR" 90+01.58 TO 93+51.03

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/27
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DEPARTMENT
ROADS PROGRAM DIVISION
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
TYPICAL SECTIONS

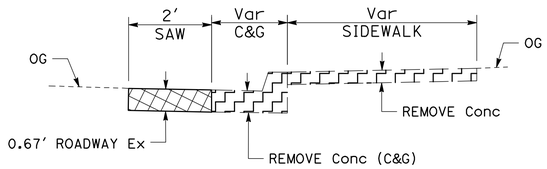
X - 2

LEGEND:

- ROADWAY EXCAVATION
- REMOVE CONCRETE (SIDEWALK, MEDIAN, AND VALLEY GUTTER)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT (Var DEPTH)
- REMOVE CONCRETE (CURB, CURB AND GUTTER)
- REMOVE FENCE
- REMOVE TREE

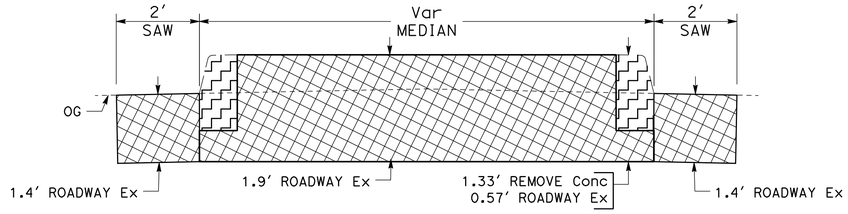
NOTES:

1. CLEARING AND GRUBBING AS SHOWN IS APPROXIMATE.
2. SEE LAYOUT SHEETS FOR COLD PLANE DEPTH LIMITS.
3. CONTRACTOR TO NOTIFY PROPERTY OWNERS IN ADVANCE OF WORK TO SALVAGE EXISTING LANDSCAPING.
4. ROADWAY EXCAVATION AT INTERSECTIONS SHALL BE TO A DEPTH OF 1.1 FEET.



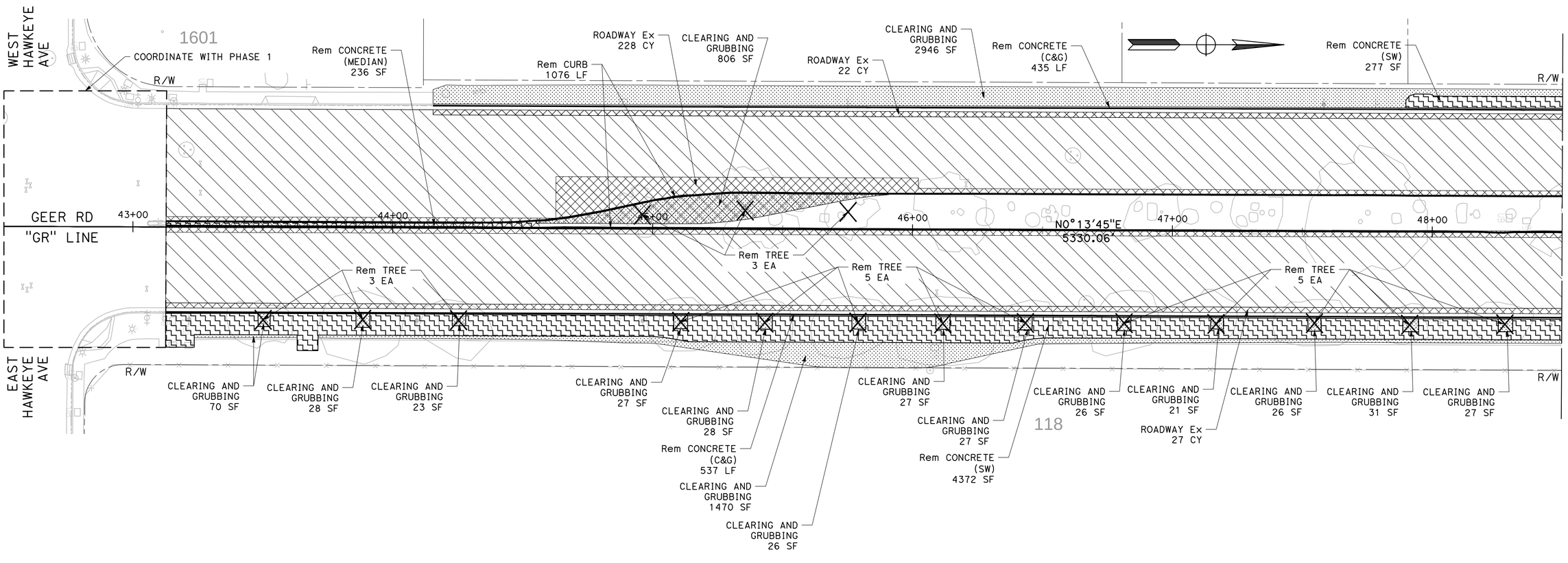
SIDEWALK DEMOLITION AND ROADWAY EXCAVATION DETAIL

NO SCALE



LANDSCAPED MEDIAN DEMOLITION AND ROADWAY EXCAVATION DETAIL

NO SCALE



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER
EDGAR A. MORIEGA
No. C 61555
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
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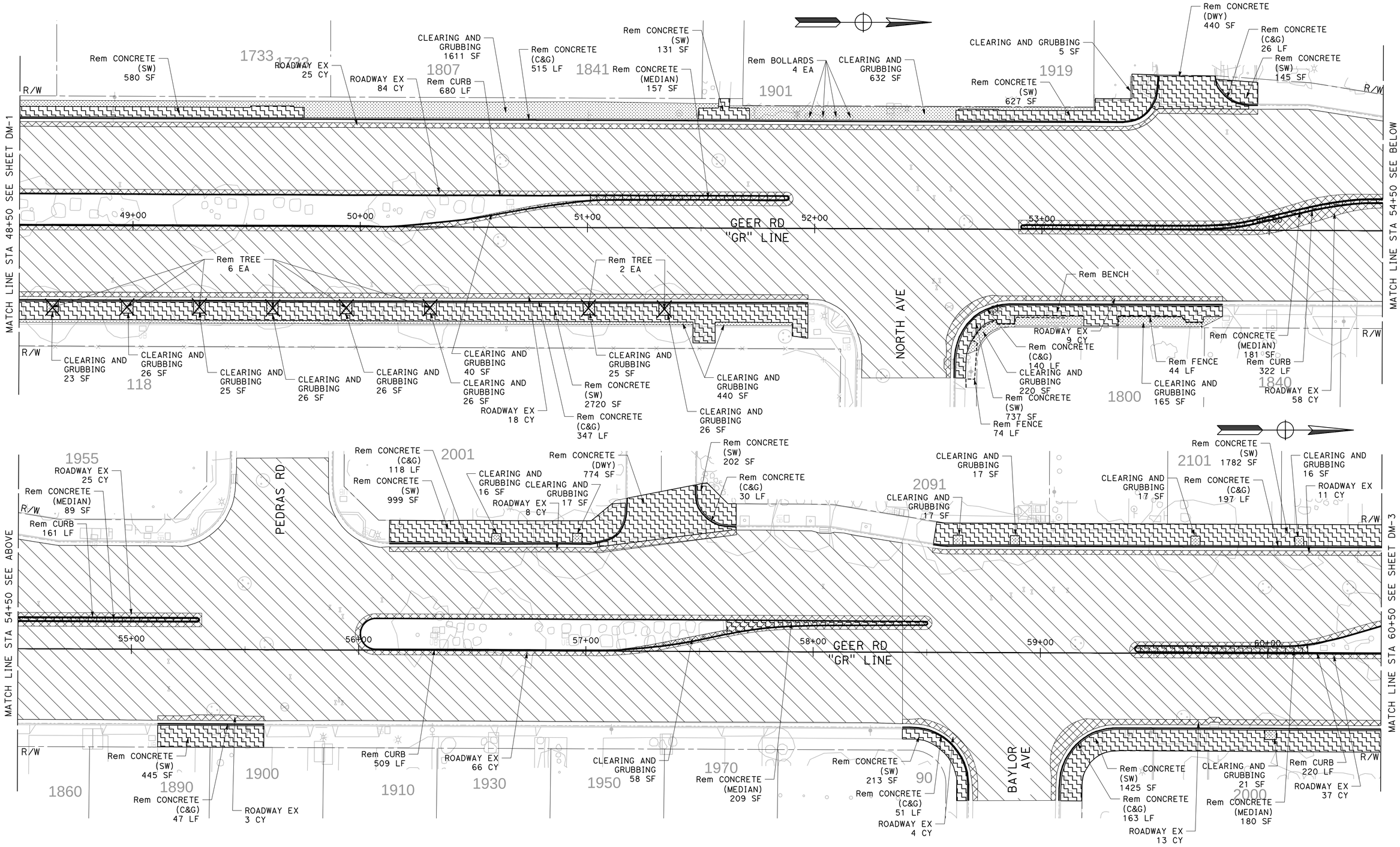
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
DEMOLITION PLANS

Sheet 84 of 256 Sheets

DM-1



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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. ADRIEGA — No. 84158 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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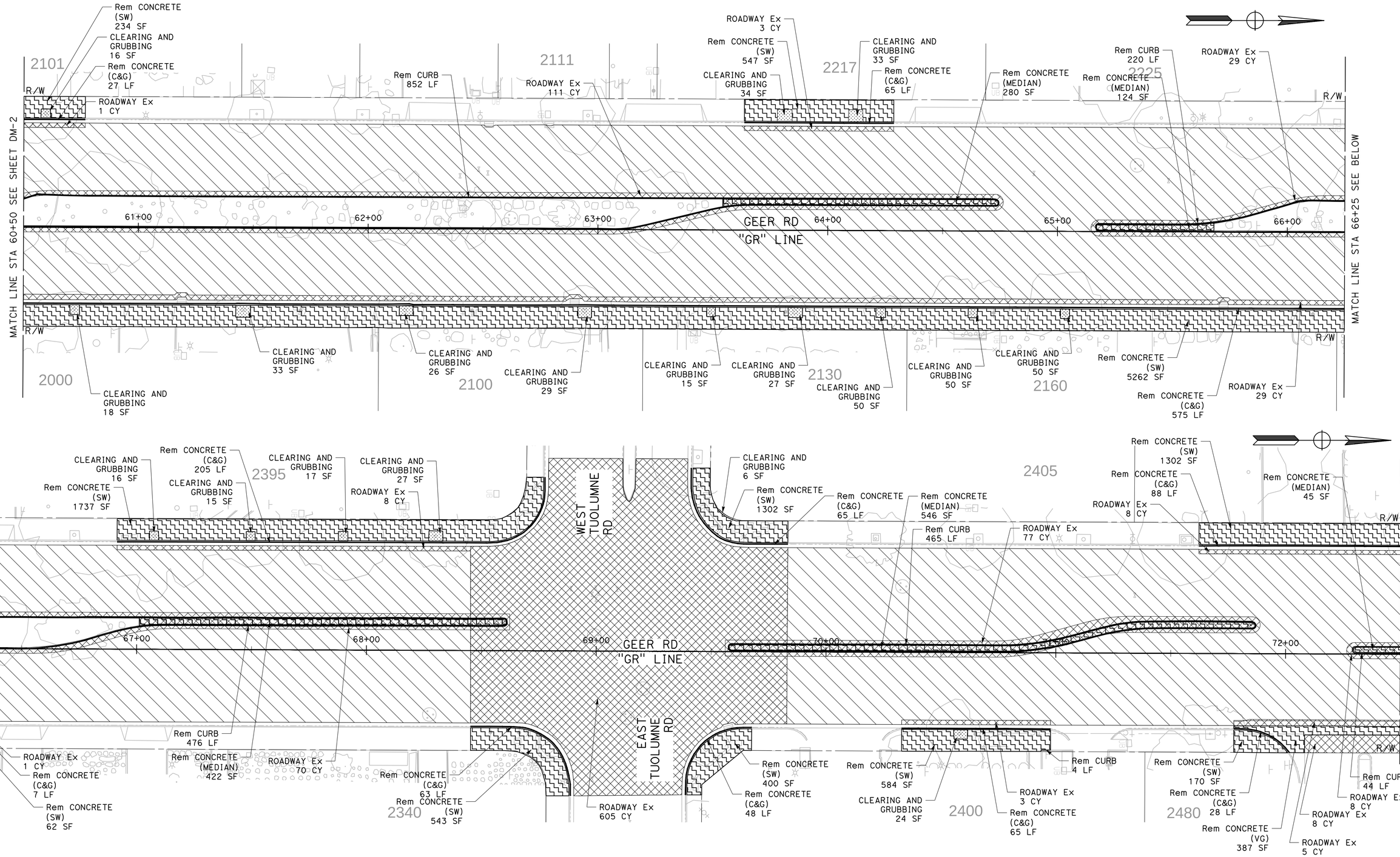
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DEMOLITION PLANS

DM-2



DESIGNED BY:	R. AHMED
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REGISTERED PROFESSIONAL ENGINEER — JORGE A. MORIEGA — No. 81555 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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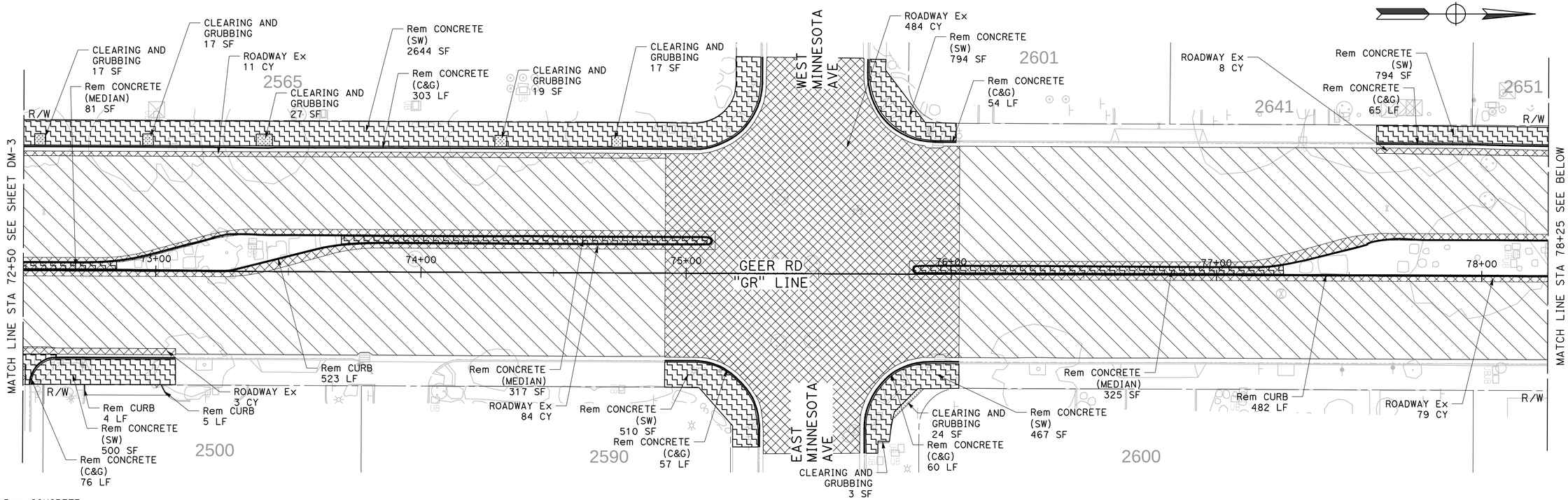
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DEMOLITION PLANS

DM-3



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MORIEGA — No. 41855 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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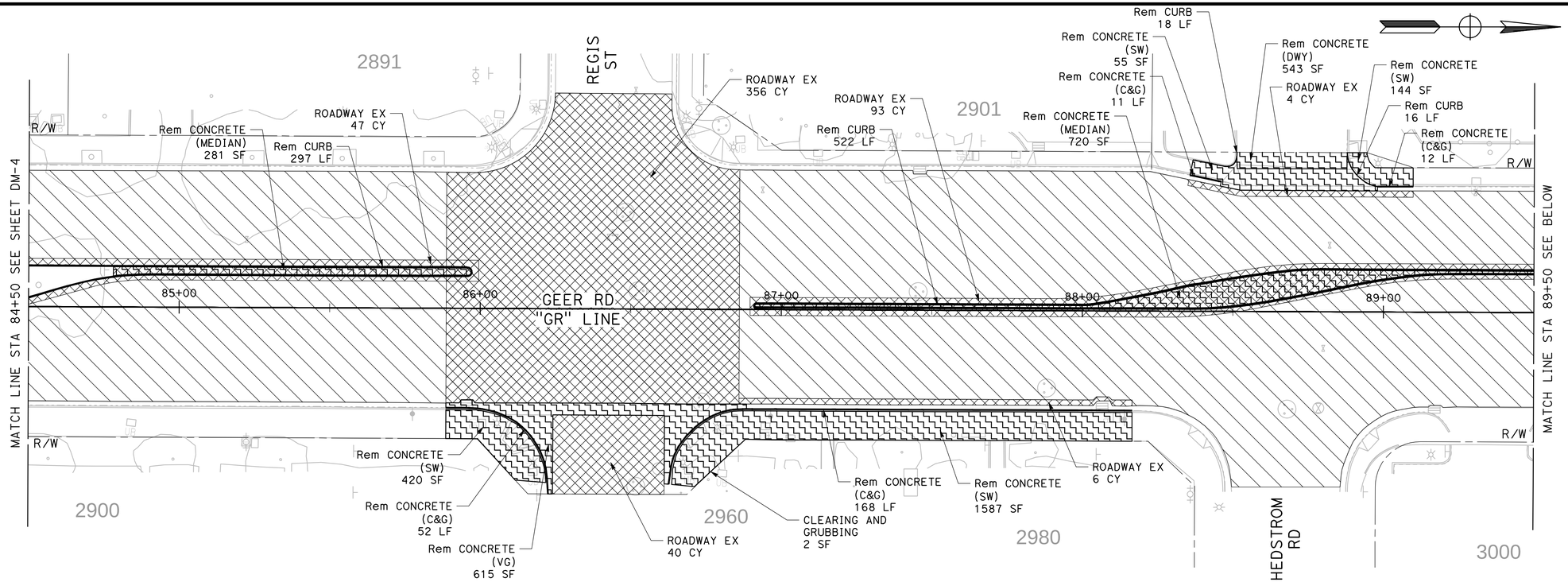
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DEMOLITION PLANS

Sheet 87 of 256 Sheets

DM-4



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
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REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 61556 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DEMOLITION PLANS

Sheet 88 of 256 Sheets

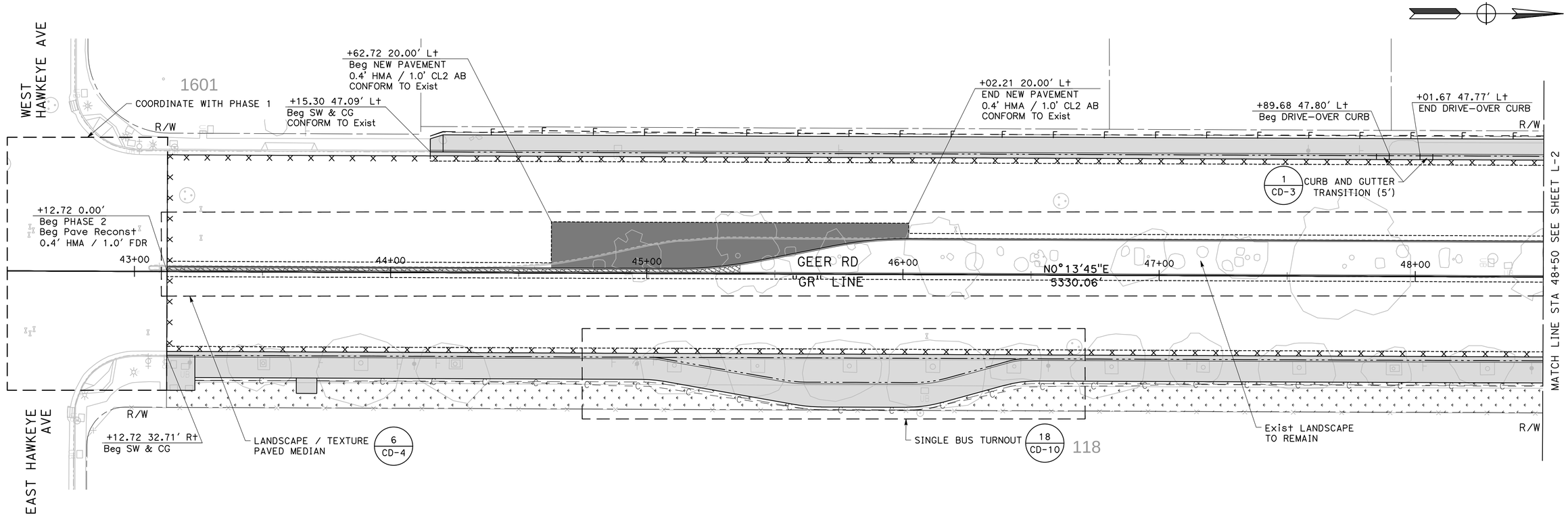
DM-5

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. ALL BUS SHELTERS AND ACCOMPANYING FACILITIES SHALL BE RESET IN PLACE AT EXISTING BUS STOP LOCATIONS WHERE NEW CONCRETE WORK IS PERFORMED.
3. FOR ACCURATE RIGHT OF WAY INFORMATION, CONTACT ENGINEERING AT CITY OF TURLOCK.
4. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
5. WHERE EXISTING MEDIAN CURB EXTENDS BEYOND THE LIMITS OF PROPOSED MEDIAN CURB, A MINIMUM 1-FOOT SAWCUT MEASURED FROM THE EDGE OF THE EXISTING CURB WAS ASSUMED TO BE REQUIRED.
6. TREES AND ROOTS SHALL BE PRESERVED, UNLESS OTHERWISE SHOWN TO BE REMOVED ON THE DM SHEETS.
7. SEE CONSTRUCTION DETAIL SHEET CD-3 FOR TREE WELL DETAILS.
8. GEER RD, TI = 10
9. TUOLUMNE RD, MINNESOTA AVE, & REGIS ST INTERSECTIONS, TI = 11

LEGEND:

- NEW PAVEMENT 0.4' HMA (TYPE A), 1.0' CL2 AB
- MINOR CONCRETE (CURB, GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (DWY APPROACH)
- MINOR CONCRETE (TEXTURE PAVING)
- HMA MISC AREA (DWY CONFORM)
- DETECTABLE WARNING SURFACE
- LANDSCAPING (SEE LANDSCAPING SHEETS)
- RECONSTRUCT WITH 0.4' HMA/1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- FILL
- CUT



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. KOBLIGA — No. C 61458 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
LAYOUTS

Sheet 89 of 256 Sheets

L-1

MATCH LINE STA 48+50 SEE SHEET L-1

LANDSCAPE / TEXTURE PAVED MEDIAN (6 / CD-4)

+92.10 47.78′ Lt
Beg DRIVE-OVER CURB

+07.10 47.78′ Lt
END DRIVE-OVER CURB

+50.82 47.78′ Lt
Beg DRIVE-OVER CURB

+70.82 47.78′ Lt
END DRIVE-OVER CURB

+66.47 47.79′ Lt
Beg DRIVE-OVER CURB

+91.47 47.79′ Lt
END DRIVE-OVER CURB

+17.34 47.79′ Lt
Beg DRIVE-OVER CURB

+32.34 47.79′ Lt
END DRIVE-OVER CURB

20 / CD-11 CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A

+50.84 67.79′ Lt
END CG
CONFORM TO Exist

+76.02 67.79′ Lt
Beg CG
CONFORM TO Exist

+50.88 65.00′ Lt
END SW
21 / CD-11 CASE G CURB RAMP PER CALTRANS STANDARD PLANS A88A

+76.73 65.00′ Lt
Beg SW
21 / CD-11 CASE G CURB RAMP PER CALTRANS STANDARD PLANS A88A

+94.79 55.05′ Lt
END SW & CG
CONFORM TO Exist

21 / CD-11 +65.08 53.17′ Lt
CL COMMERCIAL DWY

CURB AND GUTTER TRANSITION (5′) (1 / CD-3)

R/W

1733 1807 1841 1901 1919

49+00 50+00 51+00 52+00 53+00 54+00

N0°13′45"E
5330.06′

GEER RD
"GR" LINE

Exist LANDSCAPE TO REMAIN

+97.16 32.71′ Rt
END CG & SW
CONFORM TO Exist

NORTH AVE

+26.08 33.37′ Rt
CL RESIDENTIAL DWY (40 / CD-23)

RELOCATE MAILBOX

+17.55 43.00′ Rt
END VINYL FENCE
CONFORM TO Exist

+33.74 43.00′ Rt
Beg VINYL FENCE
CONFORM TO Exist

+79.61 32.77′ Rt
END SW & CG
CONFORM TO Exist

+70.54 42.99′ Rt
END VINYL FENCE
CONFORM TO Exist

BLENDED TRANSITION CURB RAMP (19 / CD-11)

+61.60 65.48′ Rt
Beg SW & CG
CONFORM TO Exist

+71.57 68.62′ Rt
Beg VINYL FENCE

7 / CD-5 TEXTURE PAVED MEDIAN

118 1800 1840

MATCH LINE STA 54+50 SEE BELOW

MATCH LINE STA 54+50 SEE ABOVE

1955

7 / CD-5 TEXTURE PAVED MEDIAN

PEDRAS RD

+13.36 46.91′ Lt
Beg SW & CG
CONFORM TO Exist

2001

+17.85 73.95′ Lt
END CG
CONFORM TO Exist

+17.86 64.78′ Lt
END SW

23 / CD-12 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

Exist TREE TO REMAIN (2)

+47.93 73.31′ Lt
Beg SW & CG
CONFORM TO Exist

+65.92 54.89′ Lt
END SW & CG
CONFORM TO Exist

23 / CD-12 +35.85 49.36′ Lt
CL COMMERCIAL DWY

+52.69 47.43′ Lt
Beg SW & CG
CONFORM TO Exist

2091

Exist TREE TO REMAIN (2)

2101

+24.45 46.85′ Lt
CL COMMERCIAL DWY (41 / CD-23)

Exist TREE TO REMAIN (2)

Exist LANDSCAPE TO REMAIN

55+00 56+00 57+00 58+00 59+00 60+00

N0°13′45"E
5330.06′

GEER RD
"GR" LINE

R/W

+11.69 32.73′ Rt
Beg SW & CG
CONFORM TO Exist

+58.41 32.77′ Rt
END SW & CG
CONFORM TO Exist

1860 1890 1900 1910 1930 1950 1970 90 2000

CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A (22 / CD-12)

LANDSCAPE / TEXTURE PAVED MEDIAN (8 / CD-5)

+39.45 32.95′ Rt
Beg SW & CG
CONFORM TO Exist

24 / CD-13 CASE C CURB RAMP PER CALTRANS STANDARD PLANS A88A

+68.62 65.13′ Rt
END SW & CG
CONFORM TO Exist

BAYLOR AVE

+61.95 32.57′ Rt
CL COMMERCIAL DWY (42 / CD-23)

Exist TREE TO REMAIN

25 / CD-13 CASE A CURB RAMP PER CALTRANS STANDARD PLANS A88A

+08.48 65.01′ Rt
Beg SW & CG
CONFORM TO Exist

9 / CD-6 LANDSCAPE / TEXTURE PAVED MEDIAN

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=20′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

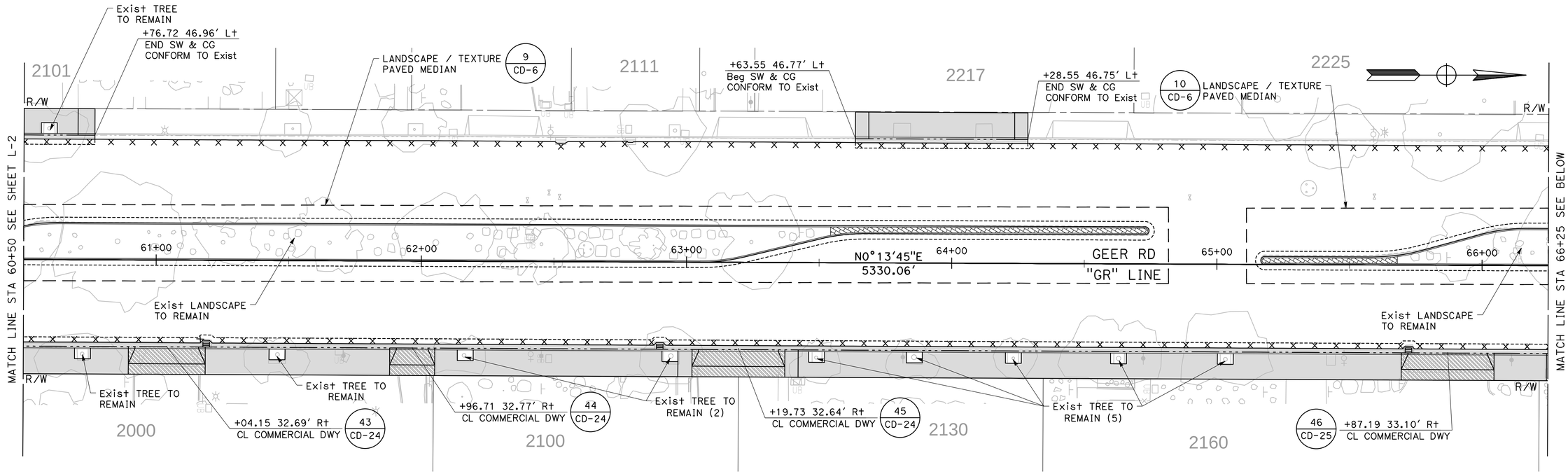
SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ROBLEGA — No. 61455 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
LAYOUTS



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. C 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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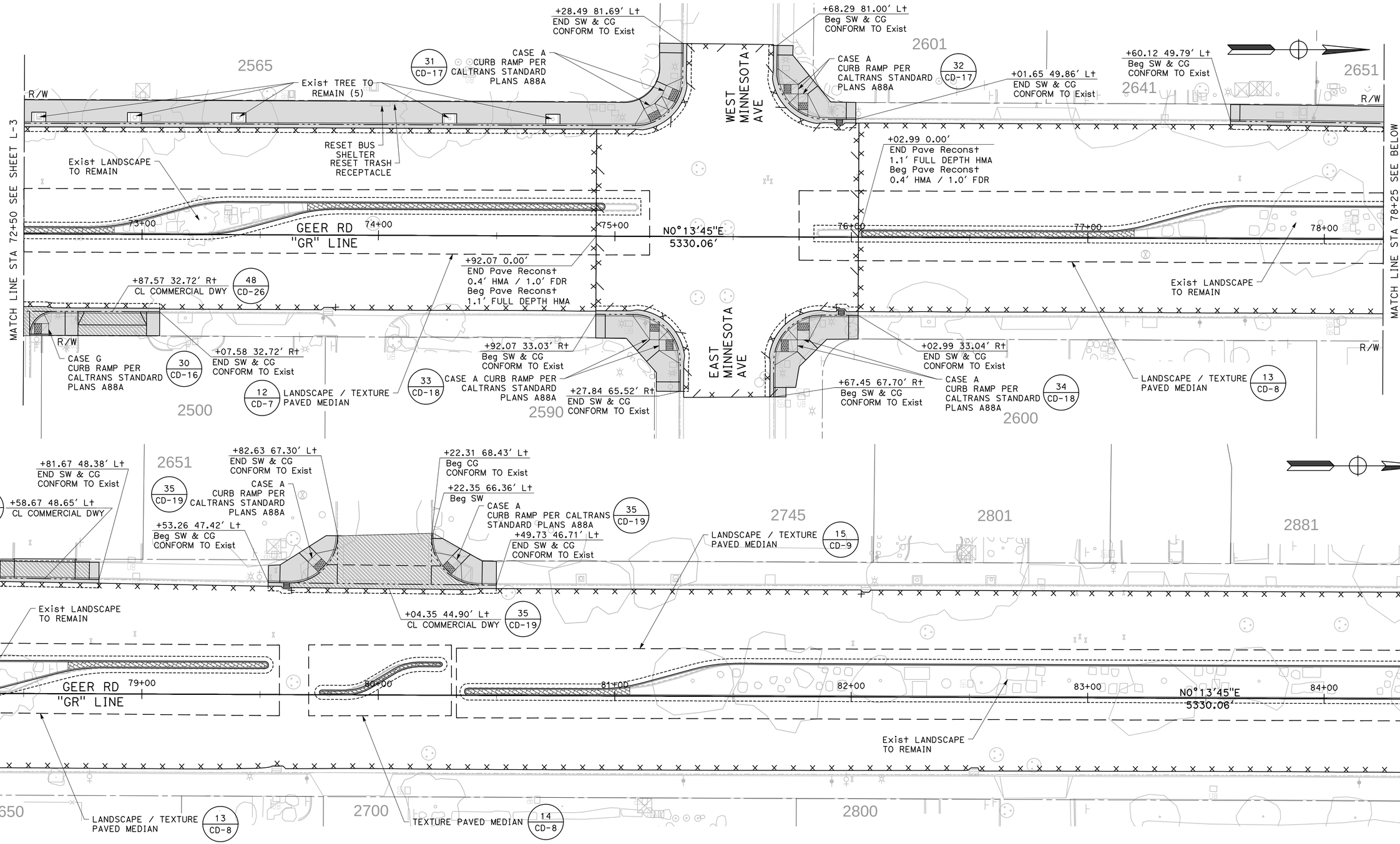
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
LAYOUTS

Sheet 91 of 256 Sheets

L-3



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811
Call 811 Before You Dig

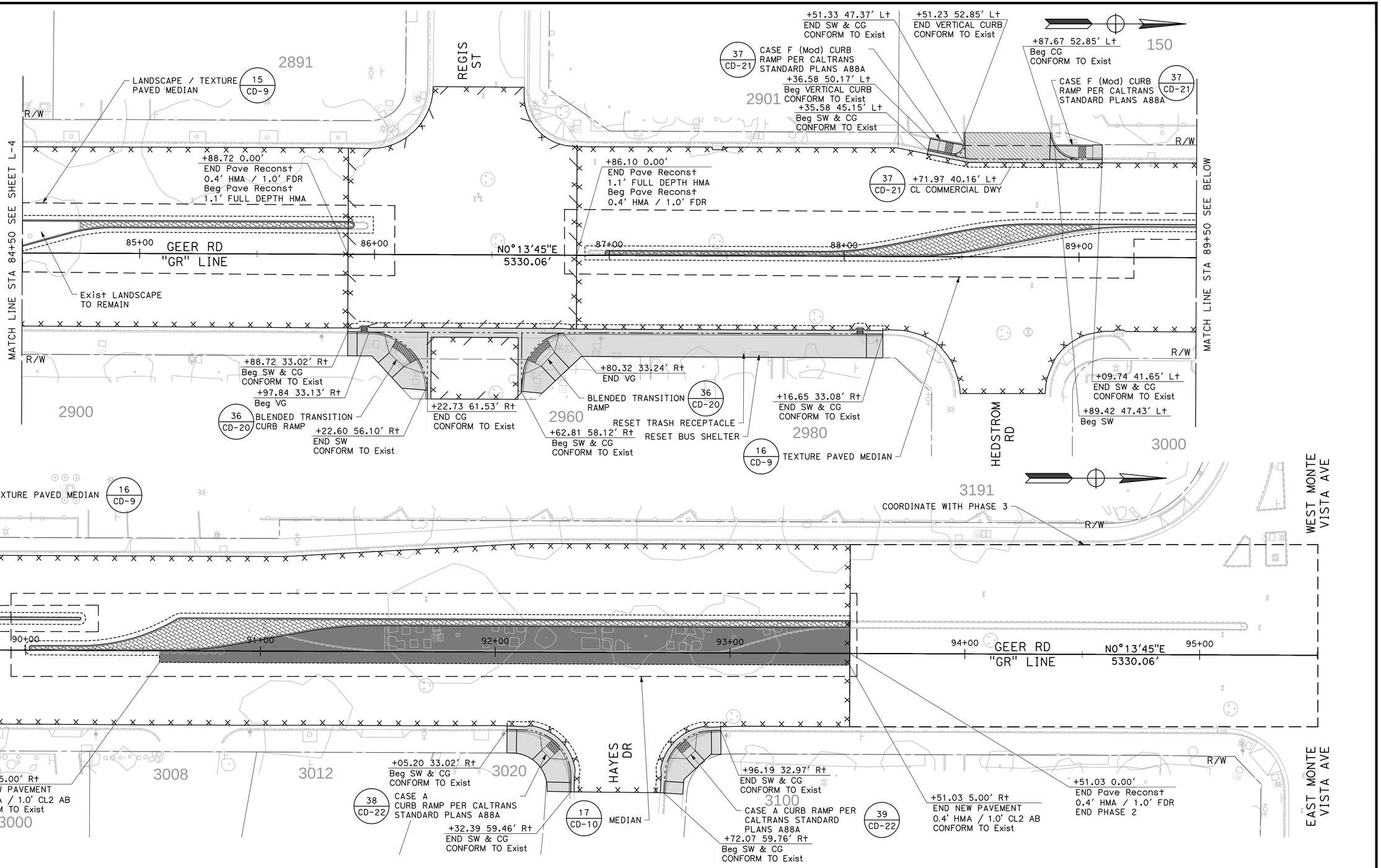
SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. ORIEGA
No. 81556
6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
LAYOUTS



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

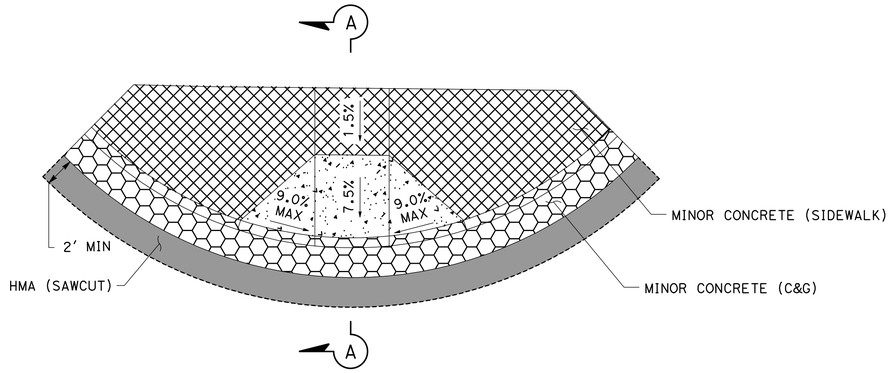
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
LAYOUTS

LEGEND:

- MINOR CONCRETE (CURB RAMP)
- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- HMA CONFORM (DWY)
- HMA (SAWCUT)

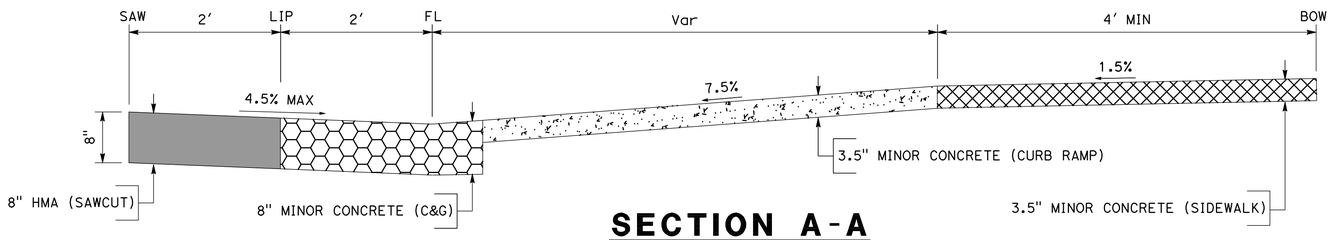
NOTES:

1. FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS A88A.



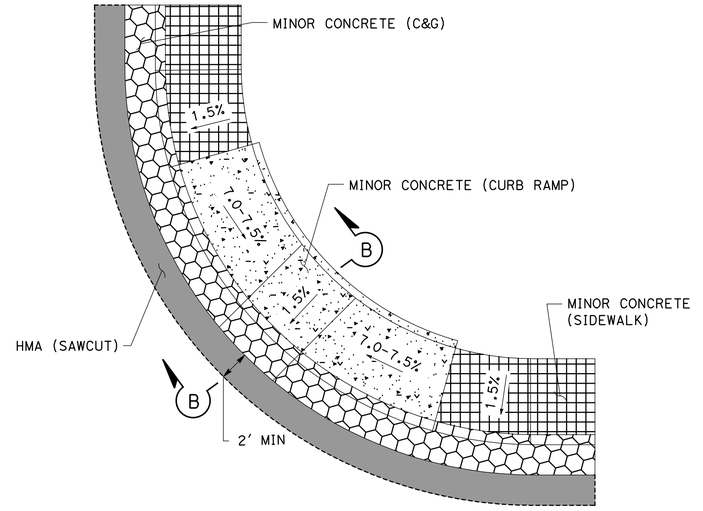
CURB RAMP TYPE A TYPICAL DETAIL

NO SCALE



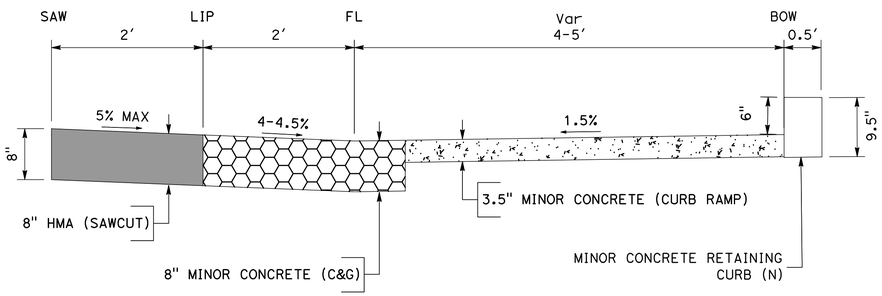
SECTION A-A

NO SCALE



CURB RAMP TYPE C TYPICAL DETAIL

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORIEGA — No. 84558 — CIVIL — STATE OF CALIFORNIA — 6/30/27

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 94 of 256 Sheets

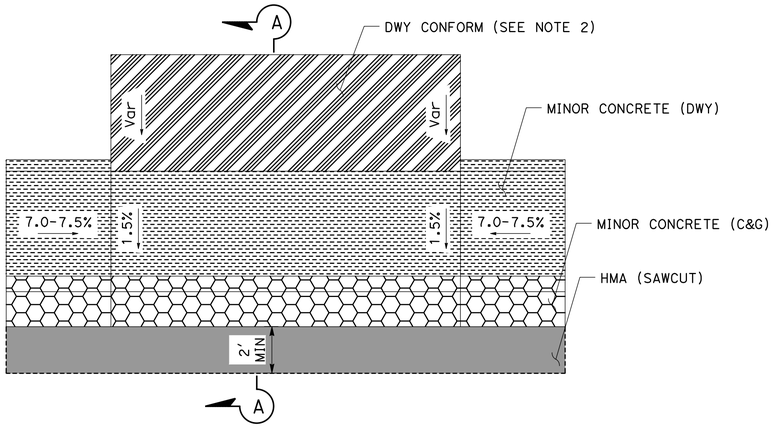
CD-1

LEGEND:

- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- DWY CONFORM
- HMA (SAWCUT)

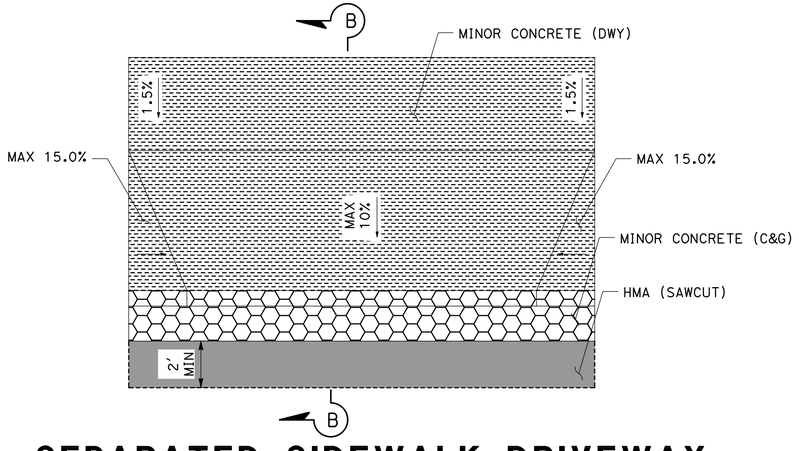
NOTES:

1. FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS A87A.
2. ALL DRIVEWAY CONFORMS SHALL MATCH EXISTING MATERIAL.
3. FOR INFORMATION NOT SHOWN REGARDING RESIDENTIAL DRIVEWAY APPROACHES, SEE CST DETAIL C-5. THE THICKNESS OF MINOR CONCRETE FOR RESIDENTIAL DRIVEWAYS SHALL BE 5.5".
4. FOR INFORMATION REGARDING COMMERCIAL DRIVEWAY APPROACHES, SEE CST DETAILS C-8 AND C-9. THE THICKNESS OF MINOR CONCRETE FOR COMMERCIAL DRIVEWAYS SHALL BE 7.5" AND THE THICKNESS FOR UNDERLYING CLASS 2 AGGREGATE BASE SHALL BE 6". THE COST OF REBAR IS INCLUDED IN THE COST OF CONCRETE FOR COMMERCIAL DRIVEWAYS.



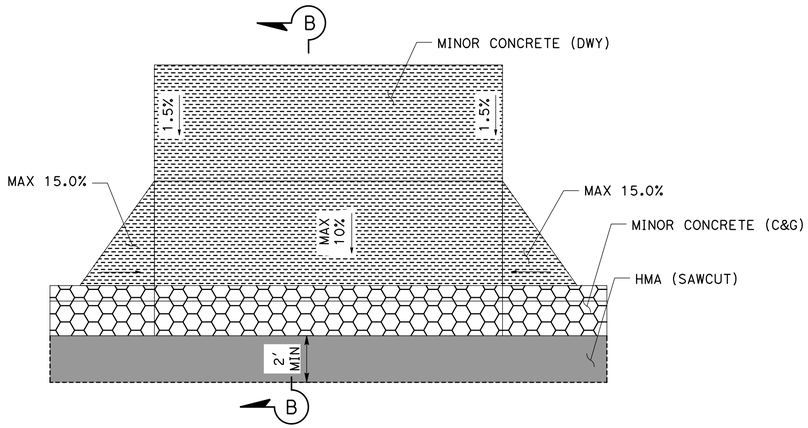
DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



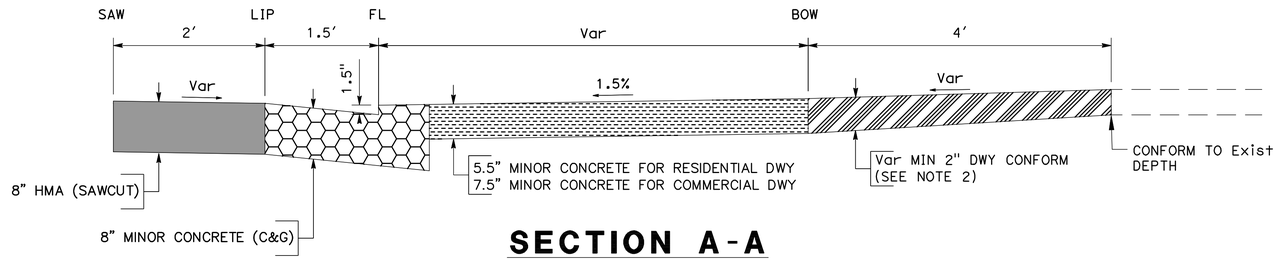
SEPARATED SIDEWALK DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



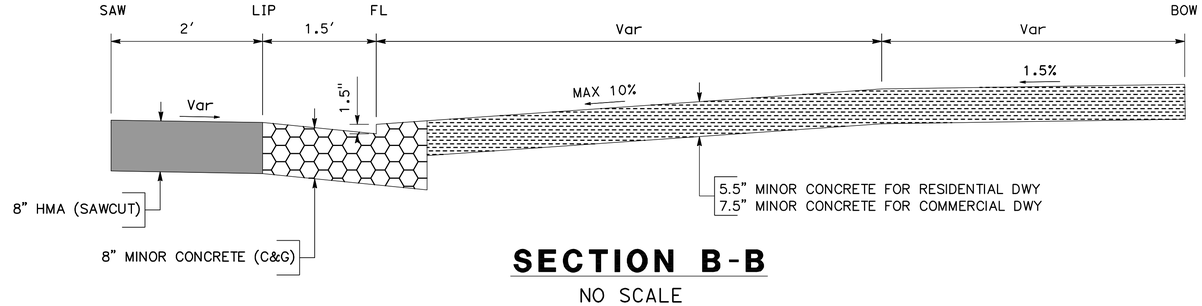
DRIVEWAY APPROACH (CALTRANS STD A87A)

NO SCALE



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE

REGISTERED PROFESSIONAL ENGINEER — EDWARD R. MORIEGA — No. C 41554 — exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

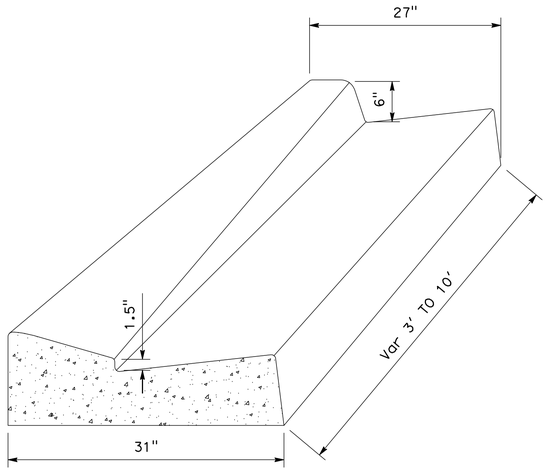
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 95 of 256 Sheets

CD-2

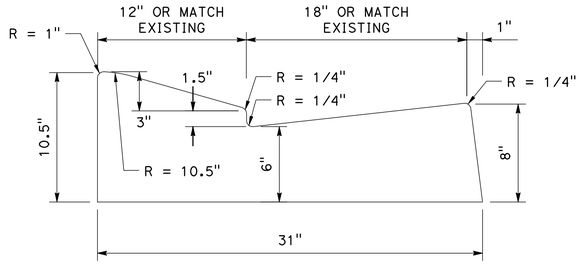
NOTES:

1. FOR C&G TRANSITIONS NEAR DRIVEWAYS, USE TRANSITION LENGTH OF 3′.
2. FOR C&G TRANSITIONS AT INTERSECTIONS AROUND CURB RETURNS, USE TRANSITION LENGTH OF 10′.
3. FOR INFORMATION REGARDING VALLEY GUTTERS, SEE CST DETAIL C-1.



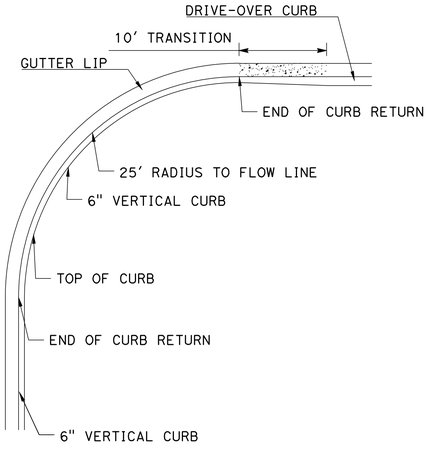
1 CD-3 CURB AND GUTTER TRANSITION

NO SCALE



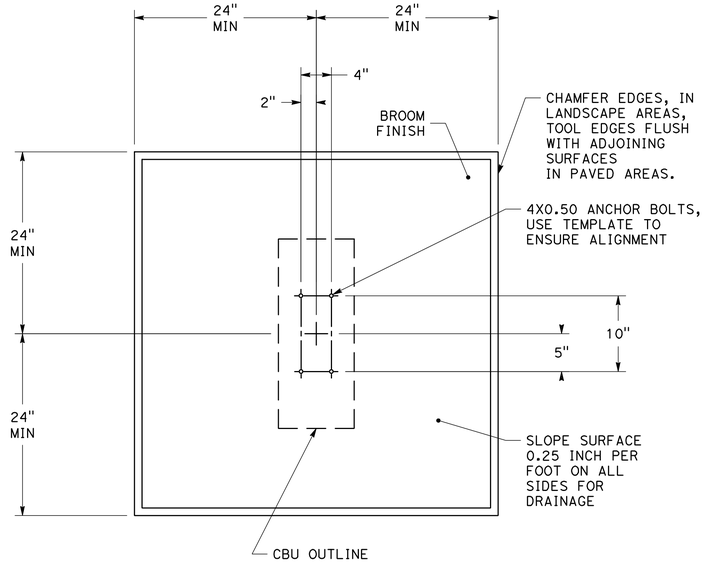
2 CD-3 DRIVE-OVER CURB DETAIL

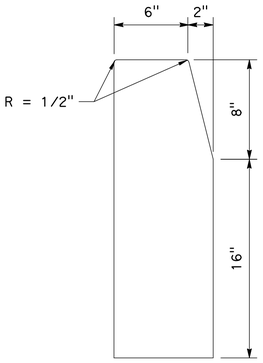
NO SCALE



3 CD-3 VERTICAL TO DRIVE OVER CURB

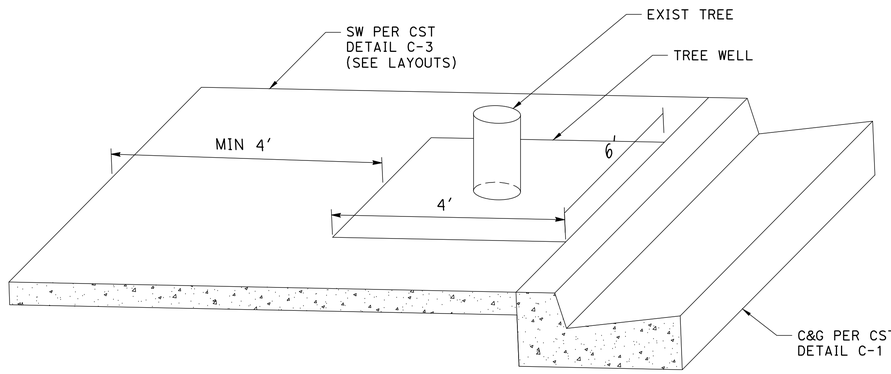
NO SCALE





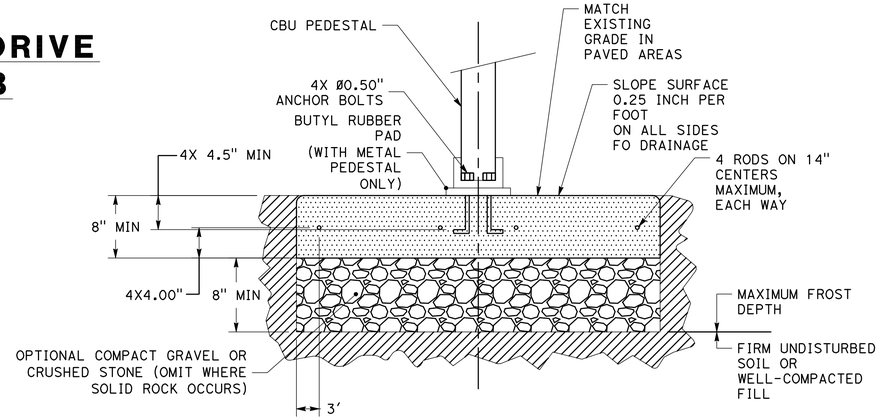
4 CD-3 LANDSCAPE MEDIAN CURB

NO SCALE



5 CD-3 TYPICAL TREE WELL

NO SCALE



MAILBOX PCC PAD - SINGLE UNIT

NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS, CONTAIN 4% MIN - 6% MAX AIR ENTRAINMENT AND BE PLACED WITH A 3.50 - 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL RODS HALL CONFORM TO ASTM A615, GRADE 60.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE B8M, TYPE 316 STAINLESS STEEL.

6 CD-3 MAILBOX PCC PAD DETAIL

NOT TO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — JOSHUA R. HERRIEGA — No. 84337 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

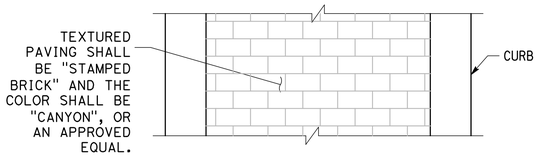
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

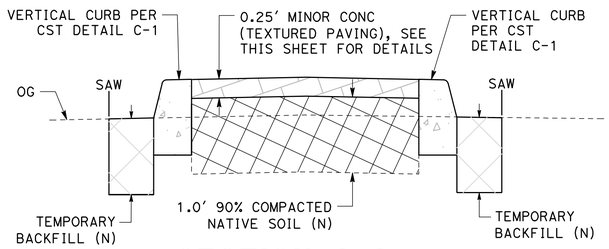
CD-3

NOTE:

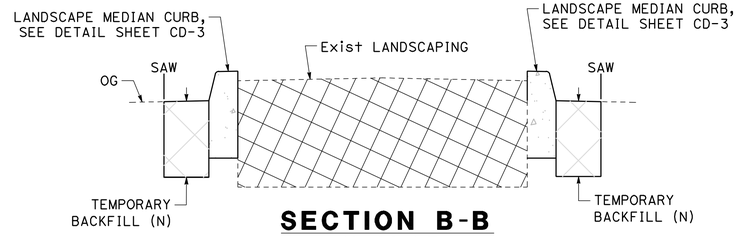
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

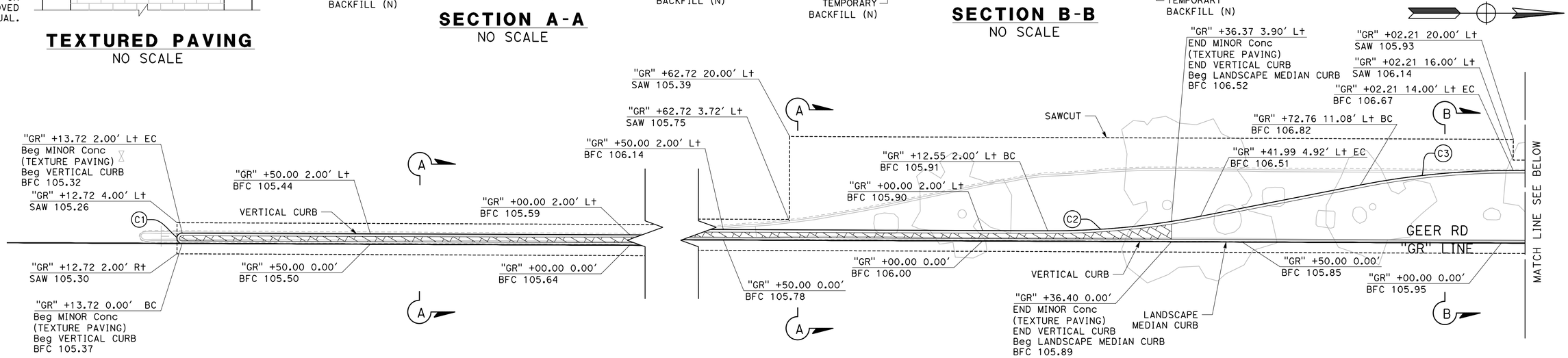


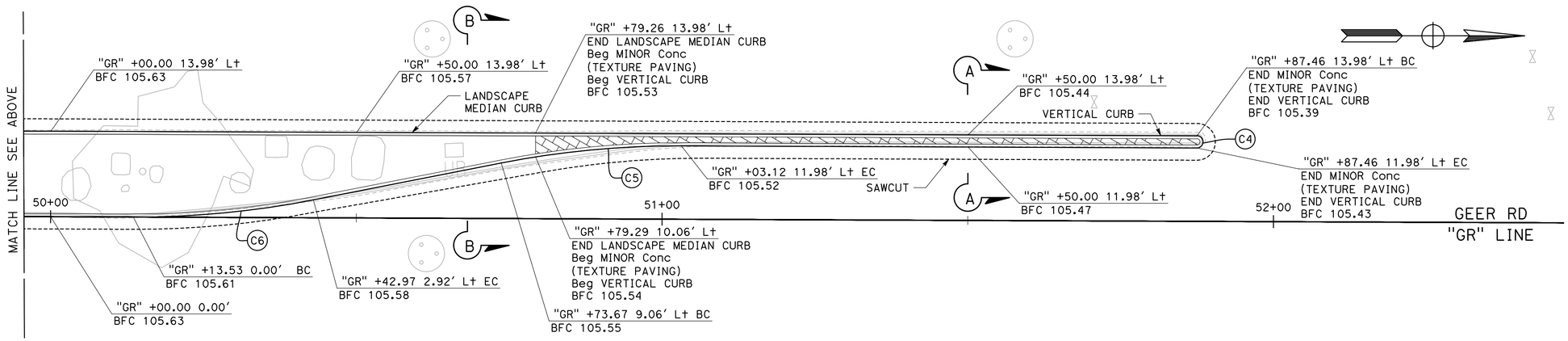
SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C1	1.00'	180°00'00"	INFINITY'	3.14'
C2	150.00'	11°19'10"	14.87'	29.63'
C3	150.00'	11°19'16"	14.87'	29.64'
C4	1.00'	180°00'00"	INFINITY'	3.14'
C5	150.00'	11°19'14"	14.87'	29.64'





6 / CD-4

LANDSCAPED / TEXTURE PAVED MEDIAN
SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK — INC. 1908

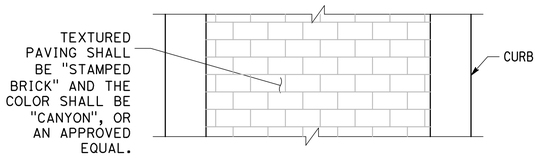
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 97 of 256 Sheets

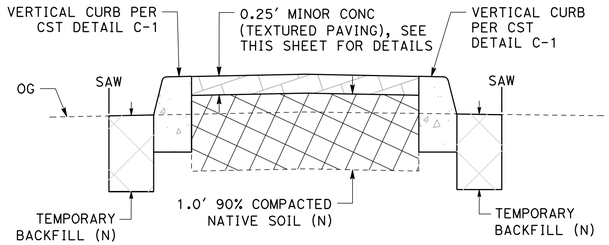
CD-4

NOTE:

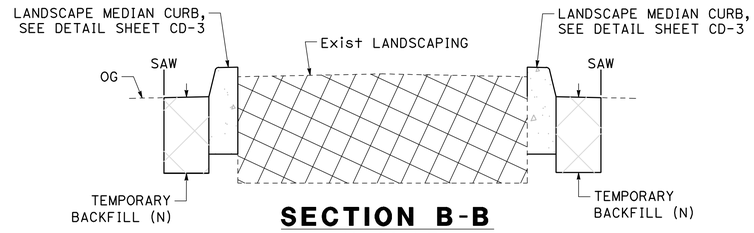
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

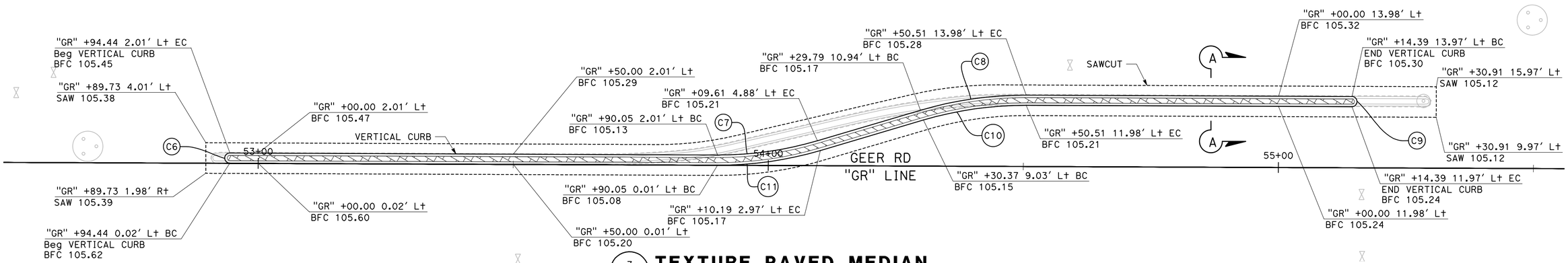


SECTION A-A
NO SCALE

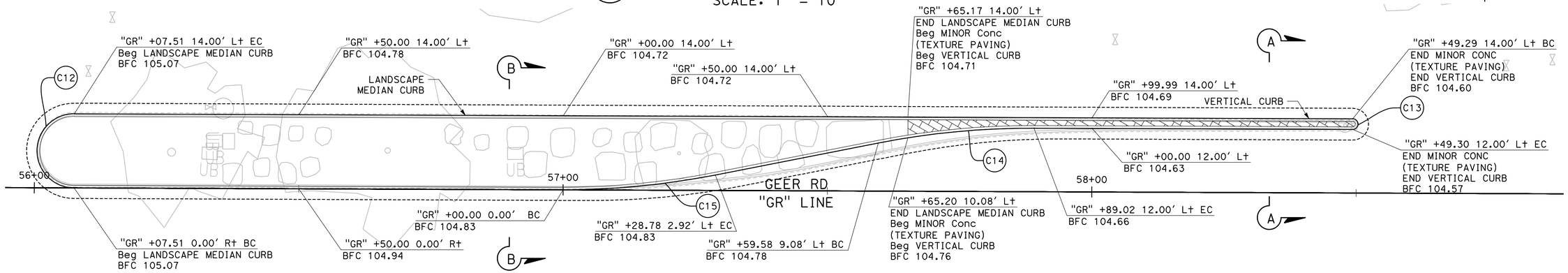


SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C6	1.00'	180°00'54"	7581.35'	3.13'
C7	68.00'	16°43'06"	9.99'	19.84'
C8	72.00'	16°43'30"	10.58'	21.02'
C9	1.00'	180°00'00"	INFINITY'	3.14'
C10	70.00'	16°43'30"	10.29'	20.43'
C11	70.00'	16°43'06"	10.29'	20.43'
C12	7.00'	180°00'00"	INFINITY'	21.99'
C13	1.00'	180°00'00"	INFINITY'	3.14'
C14	150.00'	11°19'07"	14.86'	29.63'
C15	150.00'	11°19'07"	14.86'	29.63'



7 / CD-5 **TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



8 / CD-5 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=10'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

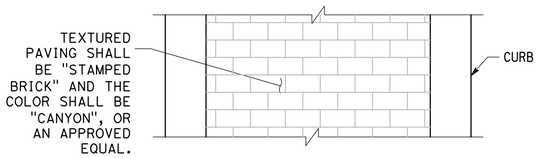
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

Sheet 98 of 256 Sheets

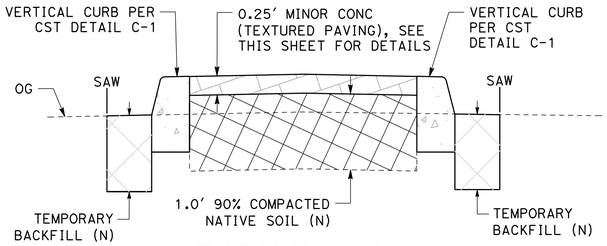
CD-5

NOTE:

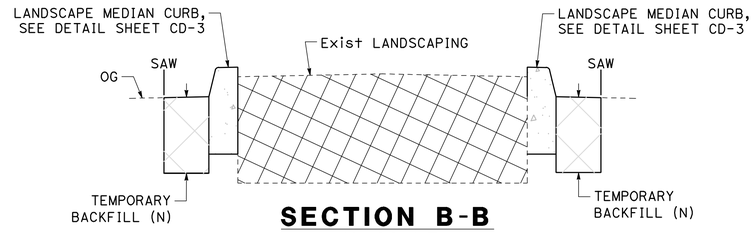
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE



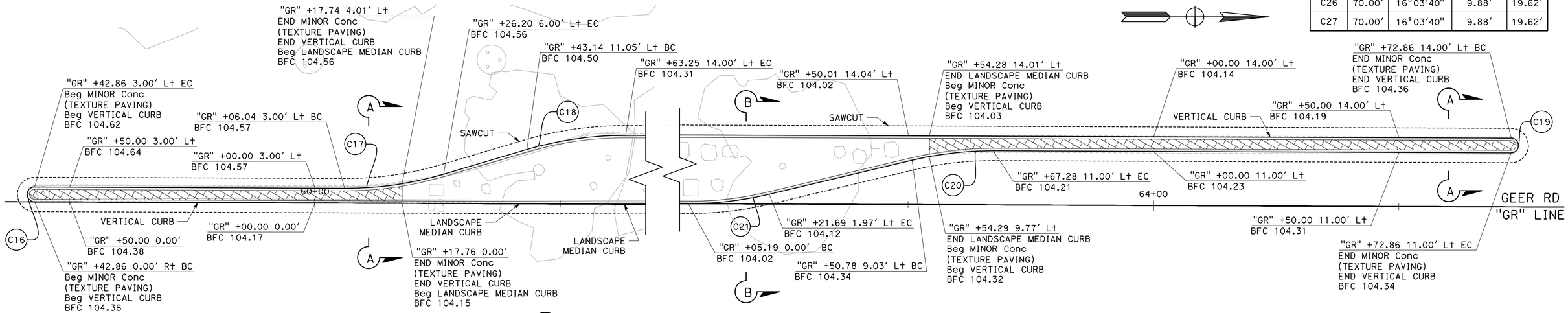
SECTION A-A
NO SCALE



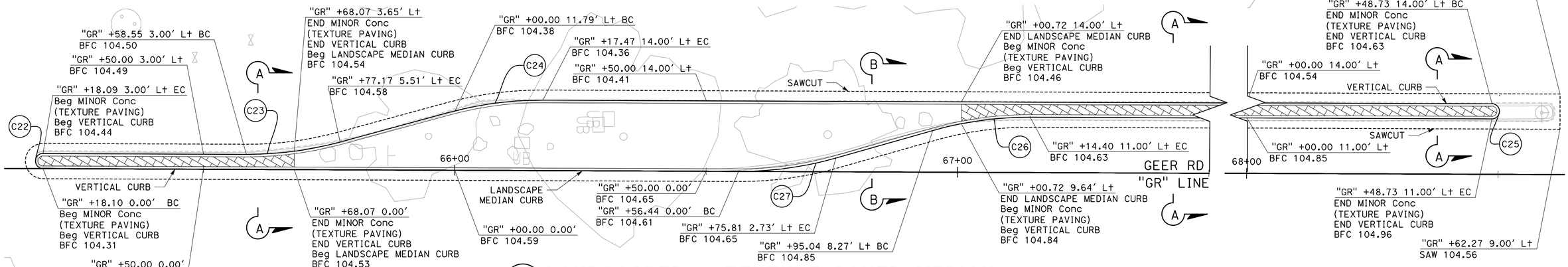
SECTION B-B
NO SCALE

CURVE TABLE

No. X	R	Δ	T	L
C16	1.50'	179°51'16"	1180.38'	4.71'
C17	70.00'	16°41'57"	10.27'	20.40'
C18	70.00'	16°41'57"	10.27'	20.40'
C19	1.50'	180°00'00"	INFINITY'	4.71'
C20	70.00'	13°38'00"	8.37'	16.66'
C21	70.00'	13°38'00"	8.37'	16.66'
C22	1.50'	180°25'08"	410.27'	4.72'
C23	70.00'	15°23'35"	9.46'	18.81'
C24	70.00'	15°23'32"	9.46'	18.81'
C25	1.50'	180°00'00"	INFINITY'	4.71'
C26	70.00'	16°03'40"	9.88'	19.62'
C27	70.00'	16°03'40"	9.88'	19.62'



9 / CD-6 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



10 / CD-6 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 81555 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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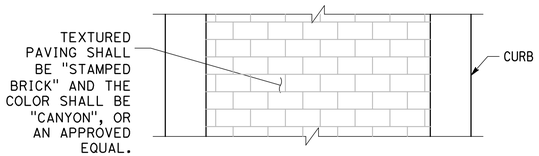
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

Sheet 99 of 256 Sheets

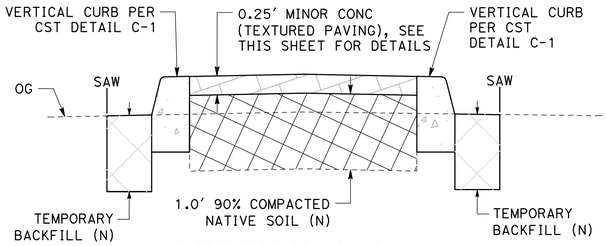
CD-6

NOTE:

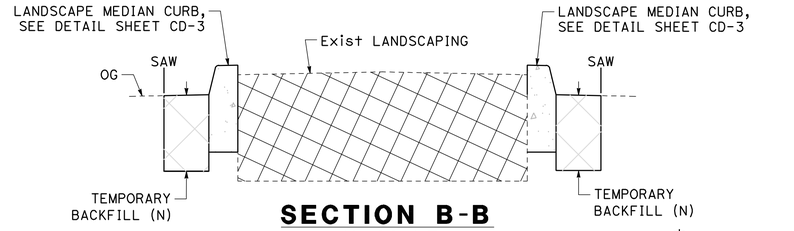
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

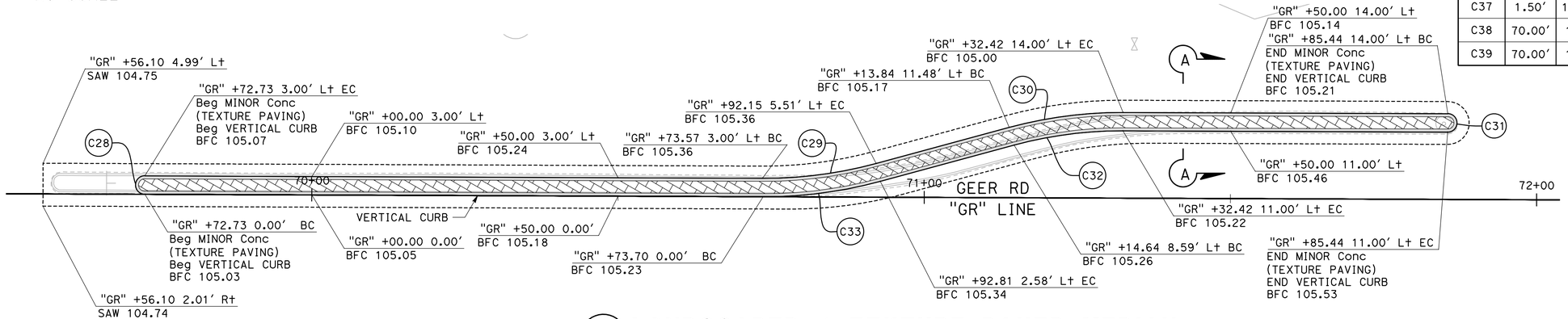


SECTION A-A
NO SCALE

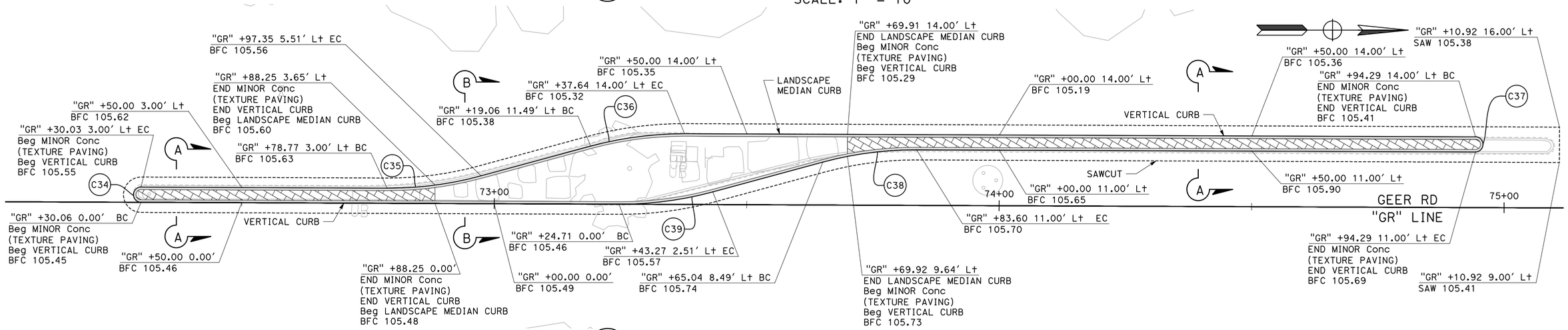


SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C28	1.50'	180°00'00"	INFINITY'	4.71'
C29	70.00'	15°23'34"	9.46'	18.81'
C30	70.00'	15°23'32"	9.46'	18.81'
C31	1.50'	180°00'00"	INFINITY'	4.71'
C32	67.00'	15°23'32"	9.05'	18.00'
C33	72.00'	15°23'34"	9.73'	19.34'
C34	1.50'	180°00'00"	13028751.49'	4.71'
C35	70.00'	15°23'34"	9.46'	18.81'
C36	70.00'	15°23'32"	9.46'	18.81'
C37	1.50'	180°00'00"	INFINITY'	4.71'
C38	70.00'	15°22'32"	9.45'	18.78'
C39	70.00'	15°22'35"	9.45'	18.79'



11 / CD-7 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



12 / CD-7 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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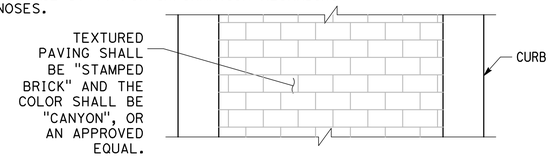
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

Sheet 100 of 256 Sheets

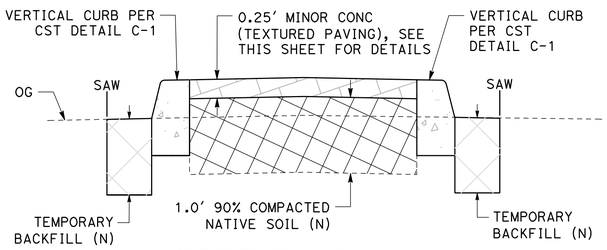
CD-7

NOTES:

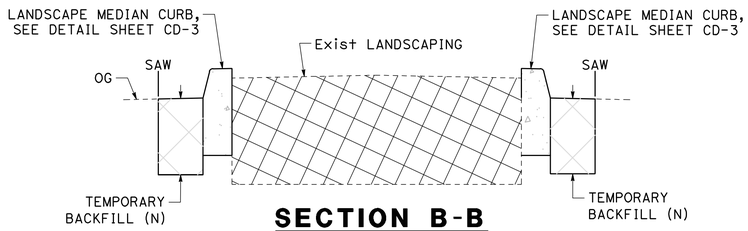
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



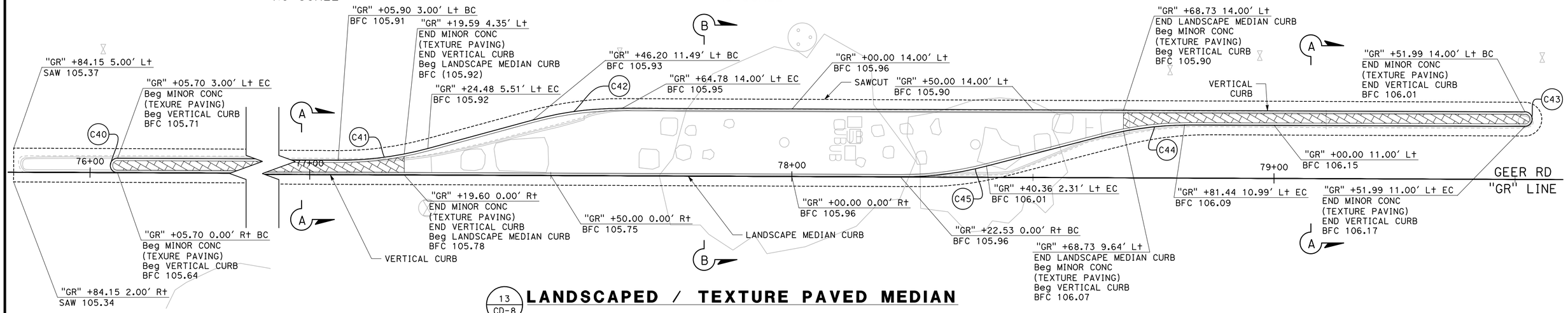
TEXTURED PAVING
NO SCALE



SECTION A-A
NO SCALE

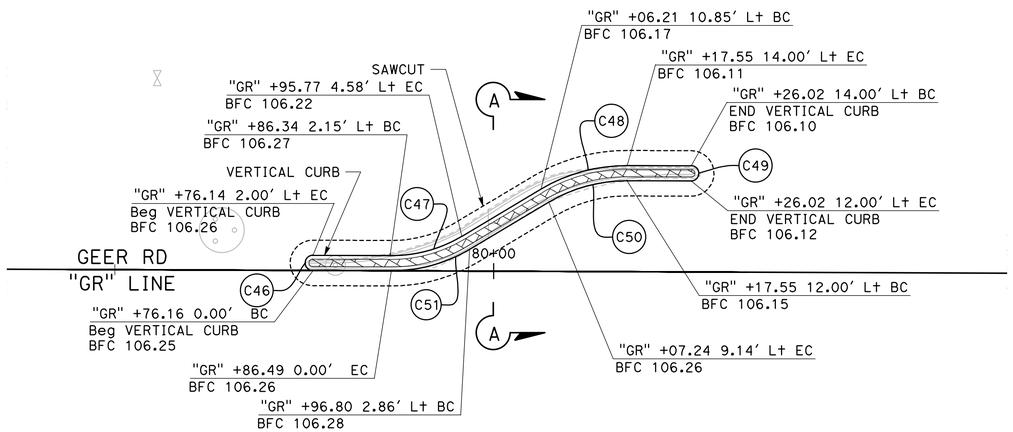


SECTION B-B
NO SCALE



13 / CD-8 LANDSCAPED / TEXTURE PAVED MEDIAN
SCALE: 1" = 10'

CURVE TABLE				
No. X	R	Δ	T	L
C40	1.50'	180°00'00"	INFINITY'	4.71'
C41	70.00'	15°23'34"	9.46'	18.81'
C42	70.00'	15°23'32"	9.46'	18.81'
C43	1.50'	179°58'26"	6616.75'	4.71'
C44	70.00'	14°45'27"	9.07'	18.03'
C45	70.00'	14°45'29"	9.07'	18.03'
C46	1.00'	181°30'37"	75.87'	3.17'
C47	18.00'	31°01'36"	5.00'	9.75'
C48	22.00'	31°01'36"	6.11'	11.91'
C49	1.00'	180°00'00"	INFINITY'	3.14'
C50	20.00'	31°01'36"	5.55'	10.83'
C51	20.00'	31°01'36"	5.55'	10.83'



14 / CD-8 TEXTURE PAVED MEDIAN
SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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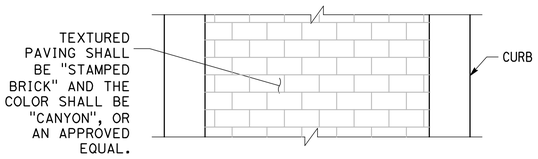
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

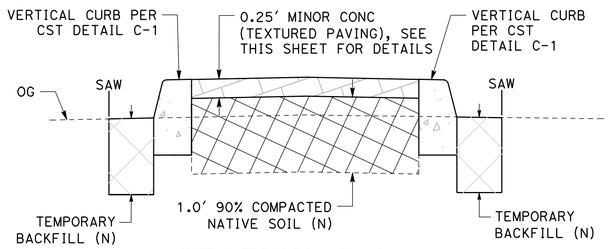
CD-8

NOTES:

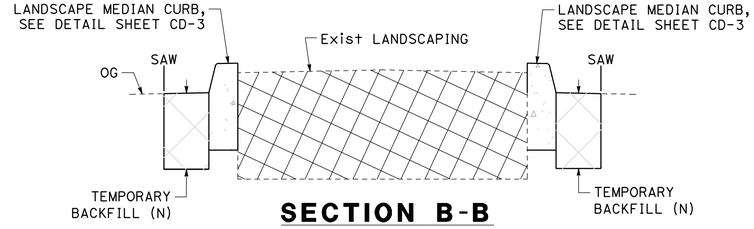
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

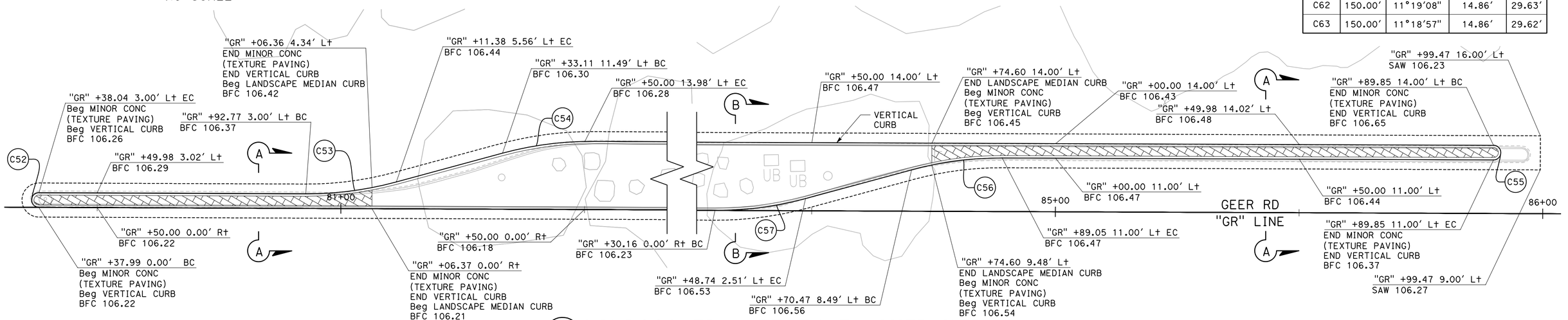


SECTION A-A
NO SCALE

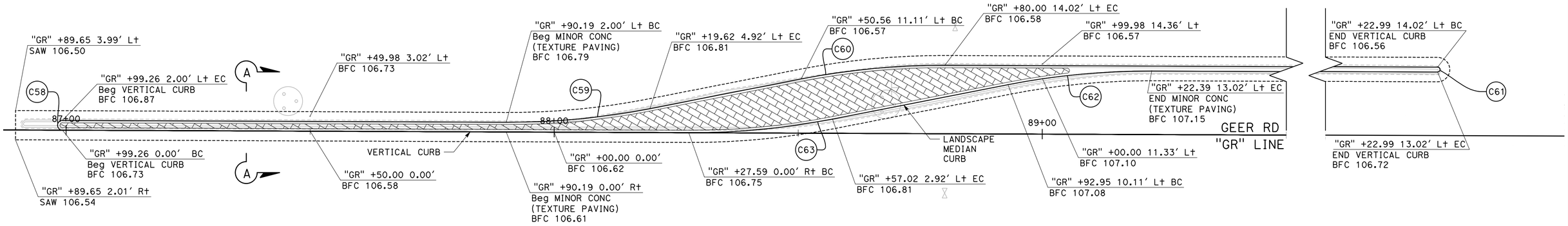


SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C52	1.50'	178°03'15"	88.32'	4.66'
C53	70.00'	15°22'36"	9.45'	18.79'
C54	70.00'	15°22'35"	9.45'	18.79'
C55	1.50'	180°08'02"	1283.14'	4.72'
C56	70.00'	15°23'31"	9.46'	18.80'
C57	70.00'	15°23'33"	9.46'	18.81'
C58	1.00'	180°00'00"	INFINITY'	3.14'
C59	150.00'	11°18'57"	14.86'	29.62'
C60	150.00'	11°19'08"	14.86'	29.63'
C61	0.50'	180°00'11"	19339.74'	1.57'
C62	150.00'	11°19'08"	14.86'	29.63'
C63	150.00'	11°18'57"	14.86'	29.62'



15 / CD-9 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



16 / CD-9 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

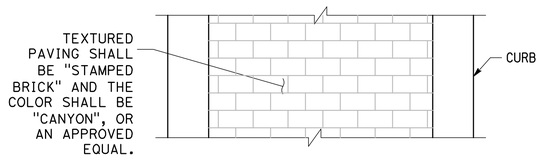
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 102 of 256 Sheets

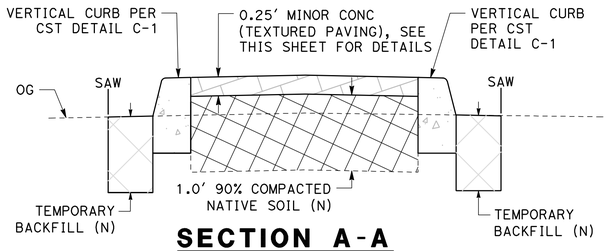
CD-9

NOTES:

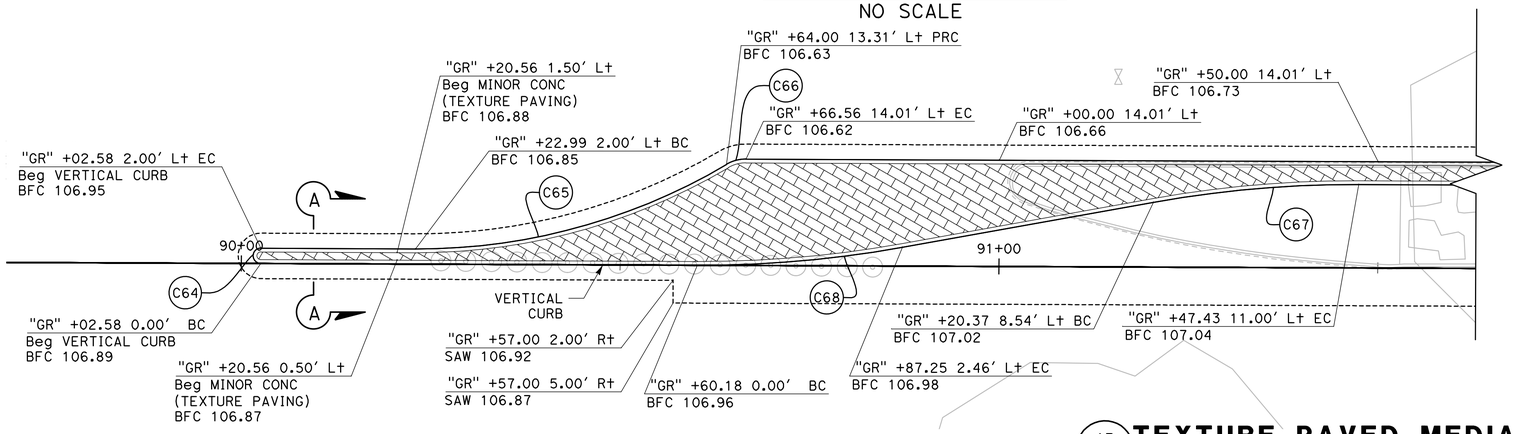
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. FOR INFORMATION NOT SHOWN REGARDING THE SINGLE BUS TURNOUT, SEE CST DETAIL C-8 AND CST DETAIL ST-16.
4. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.

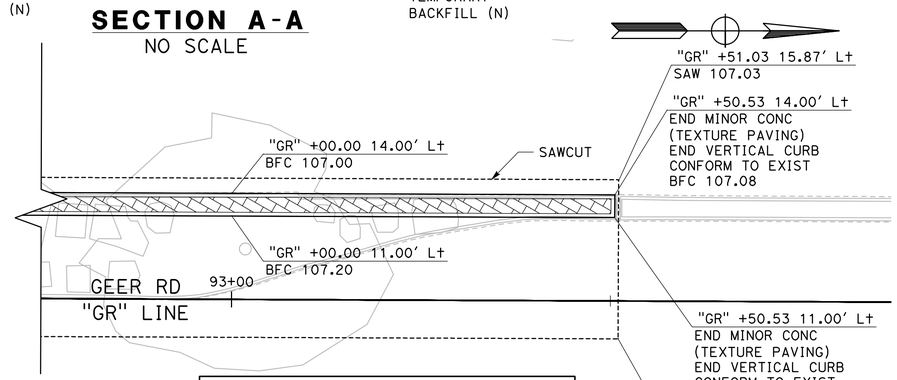


TEXTURED PAVING
NO SCALE



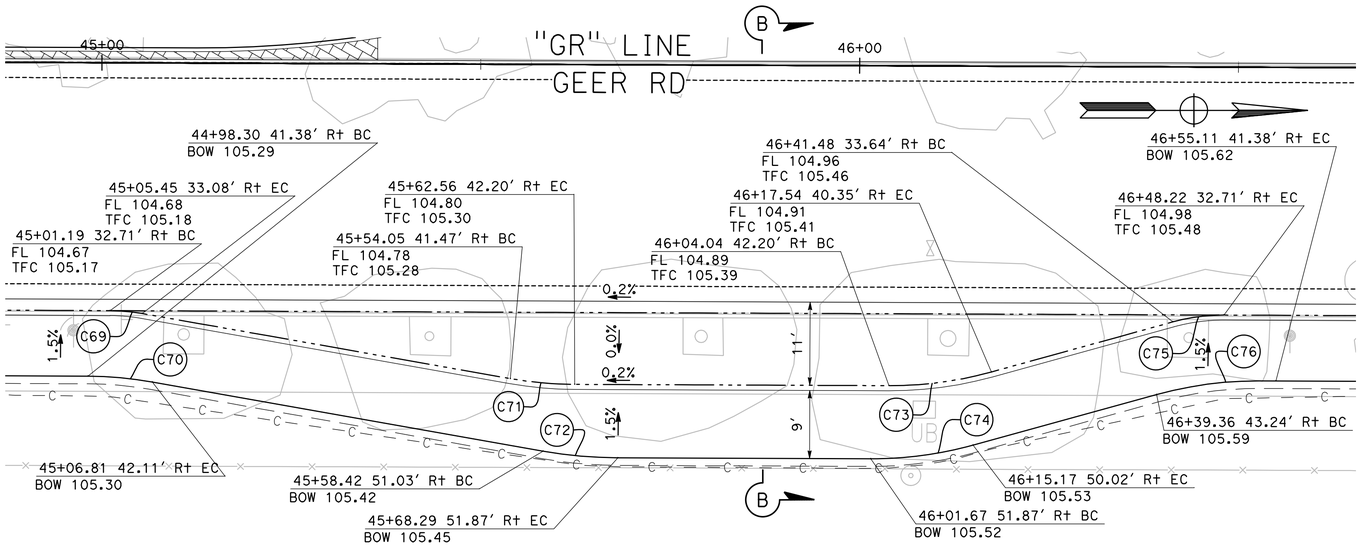
SECTION A-A
NO SCALE





17 / CD-10 **TEXTURE PAVED MEDIAN**

SCALE: 1" = 10'

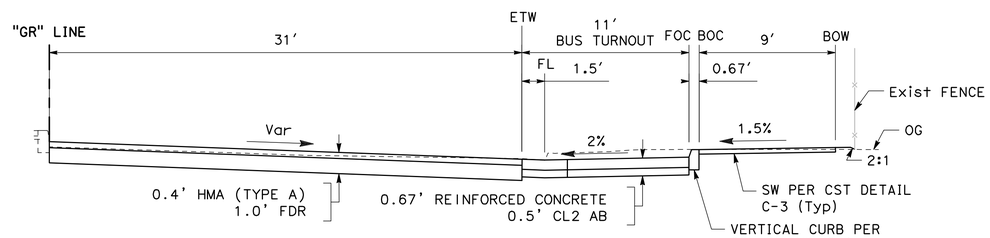


18 / CD-10 **HAWKEYE AVE / GEER RD EASTSIDE SINGLE BUS TURNOUT**

SCALE: 1" = 10'

CURVE TABLE

No. X	R	Δ	T	L
C64	1.00'	180°00'00"	INFINITY'	3.14'
C65	80.00'	30°50'02"	22.06'	43.05'
C66	5.00'	30°50'12"	1.38'	2.69'
C67	150.00'	10°23'46"	13.65'	27.22'
C68	150.00'	10°23'46"	13.65'	27.22'
C69	25.00'	9°48'00"	2.14'	4.28'
C70	50.00'	9°48'00"	4.29'	8.55'
C71	50.00'	9°47'59"	4.29'	8.55'
C72	58.00'	9°47'59"	4.97'	9.92'
C73	50.00'	15°39'51"	6.88'	13.67'
C74	50.00'	15°39'18"	6.87'	13.66'
C75	25.00'	15°39'17"	3.44'	6.83'
C76	50.00'	15°39'17"	6.87'	13.66'



SECTION B-B
NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — JOSHUA A. MORIEGA — No. C-81554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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SUITE 150
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

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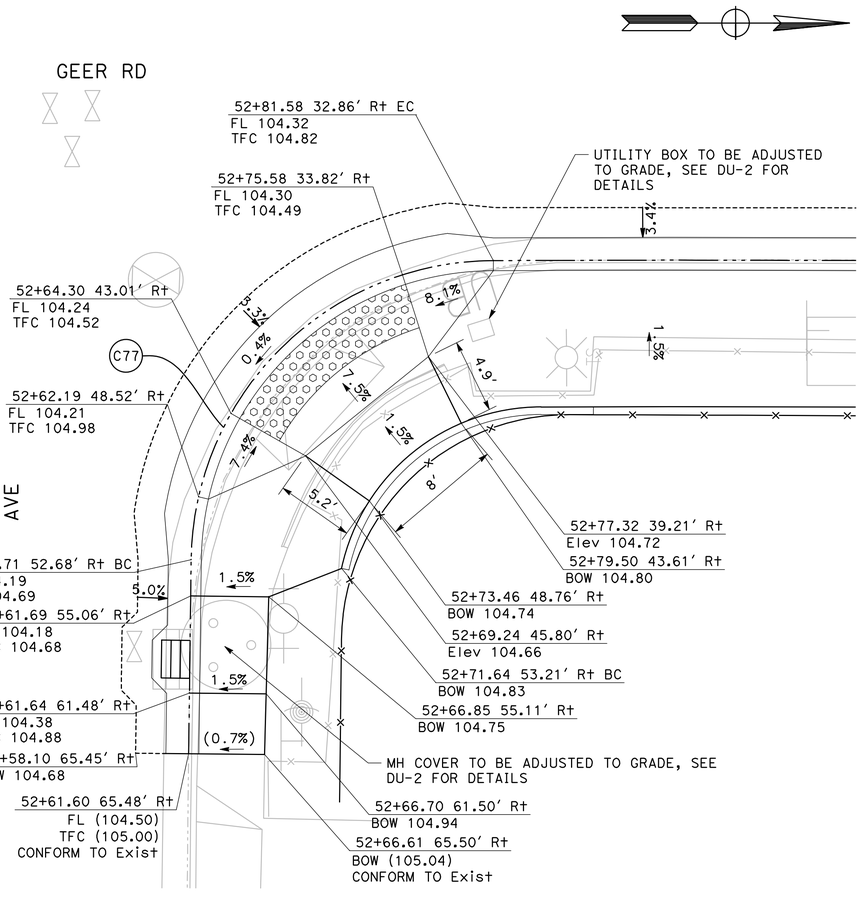
CD-10

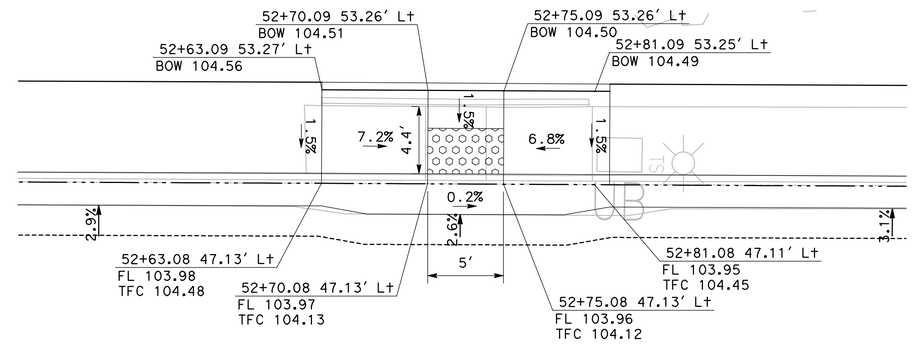
CURVE TABLE				
No. X	R	Δ	T	L
C77	20.00′	89°06′34"	19.69′	31.11′
C78	15.00′	61°50′45"	8.99′	16.19′
C79	15.00′	81°02′00"	12.82′	21.21′



19 CD-11

NORTH AVE / GEER RD NE CURB RAMP

SCALE: 1" = 5′



20 CD-11

NORTH AVE / GEER RD NW CURB RAMP

SCALE: 1" = 5′

21 CD-11

NORTH AVE / GEER RD WEST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER JESSICA R. ARRIEGA No. E/30/22 CIVIL STATE OF CALIFORNIA

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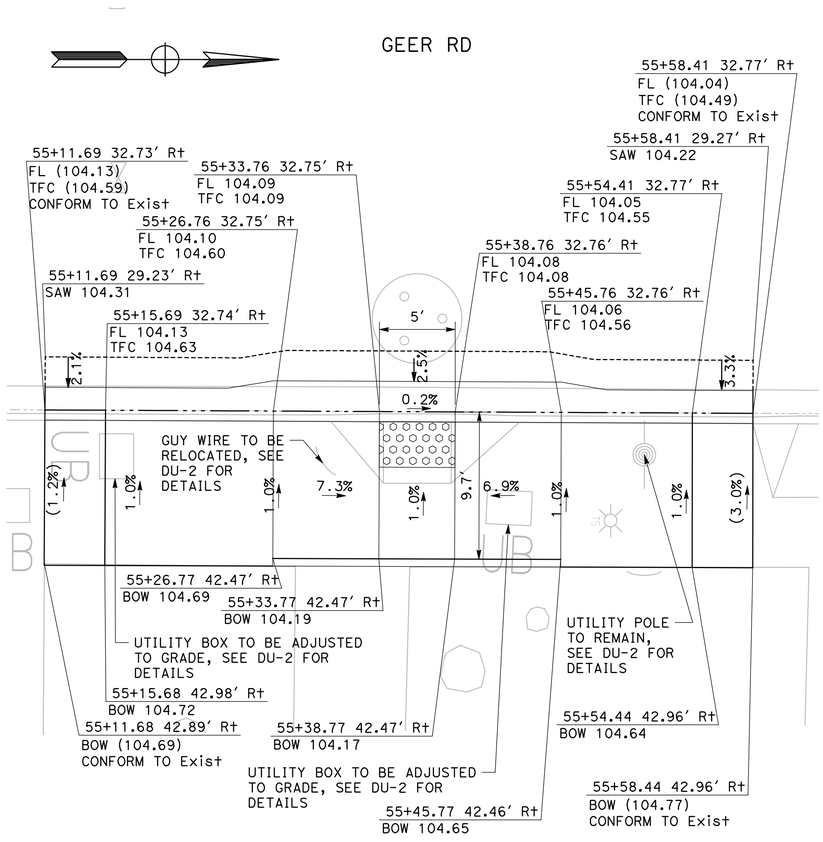
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

Sheet 104 of 256 Sheets

CD-11

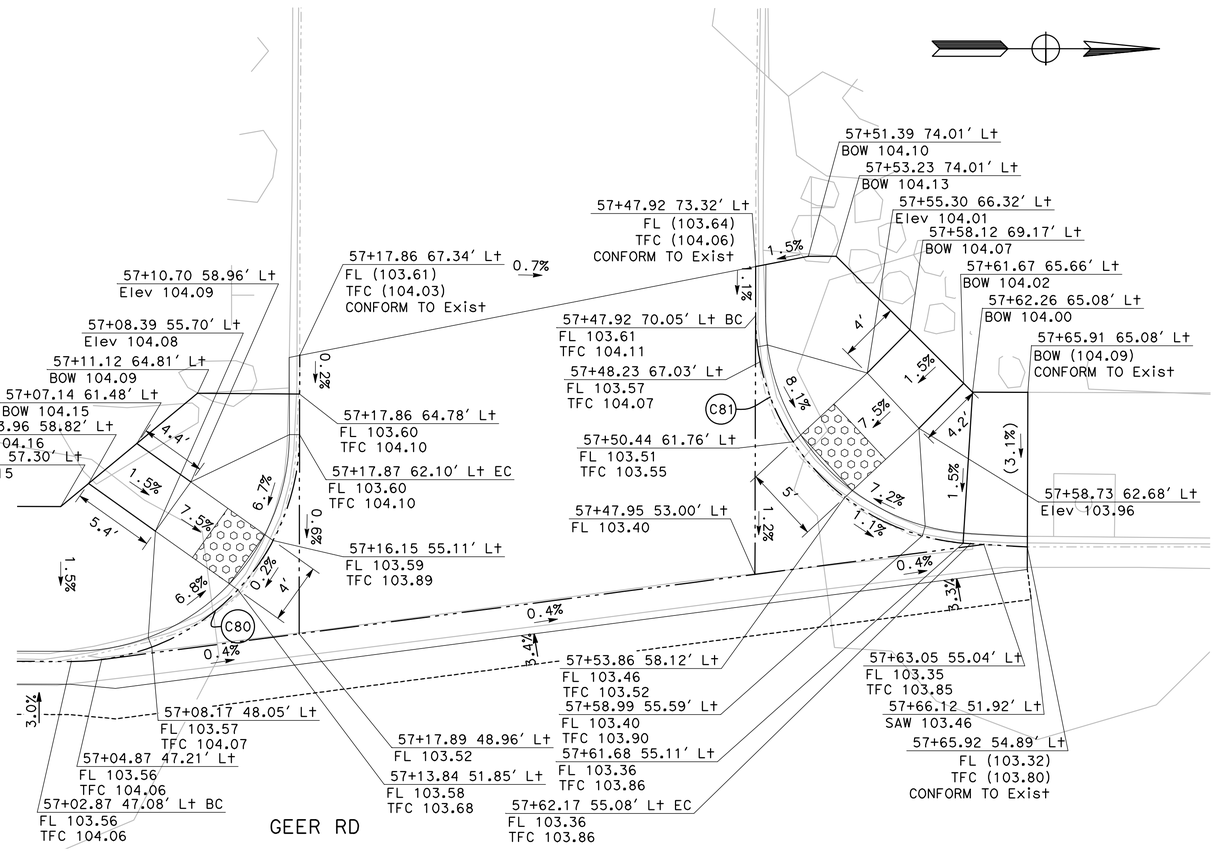
CURVE TABLE				
No. X	R	Δ	T	L
C80	15.00′	90°05′04"	15.02′	23.58′
C81	15.00′	87°00′45"	14.24′	22.78′



22 CD-12

PEDRAS RD / GEER RD SE CURB RAMP

SCALE: 1" = 5′



23 CD-12

PEDRAS RD / GEER RD WEST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

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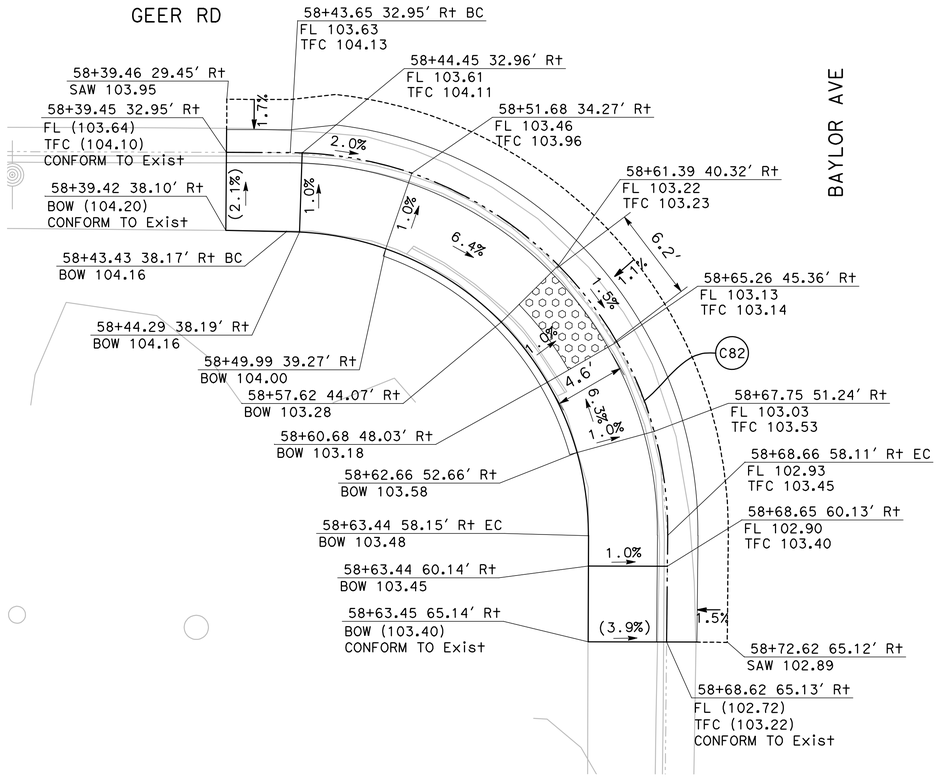
CONSTRUCTION DETAILS

Sheet 105 of 256 Sheets

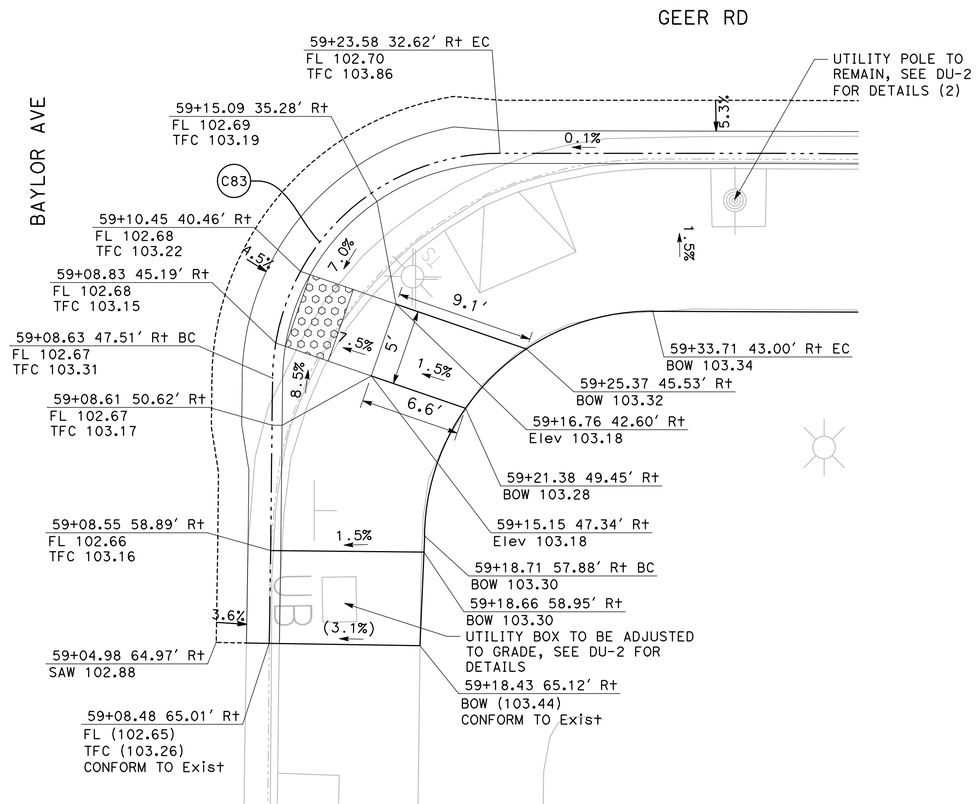
CD-12

CURVE TABLE				
No. X	R	Δ	T	L
C82	25.00′	90°22′01"	25.16′	39.43′
C83	15.00′	89°25′09"	14.85′	23.41′



24 CD-13 **BAYLOR AVE / GEER RD SE CURB RAMP**

SCALE: 1" = 5′



25 CD-13 **BAYLOR AVE / GEER RD NE CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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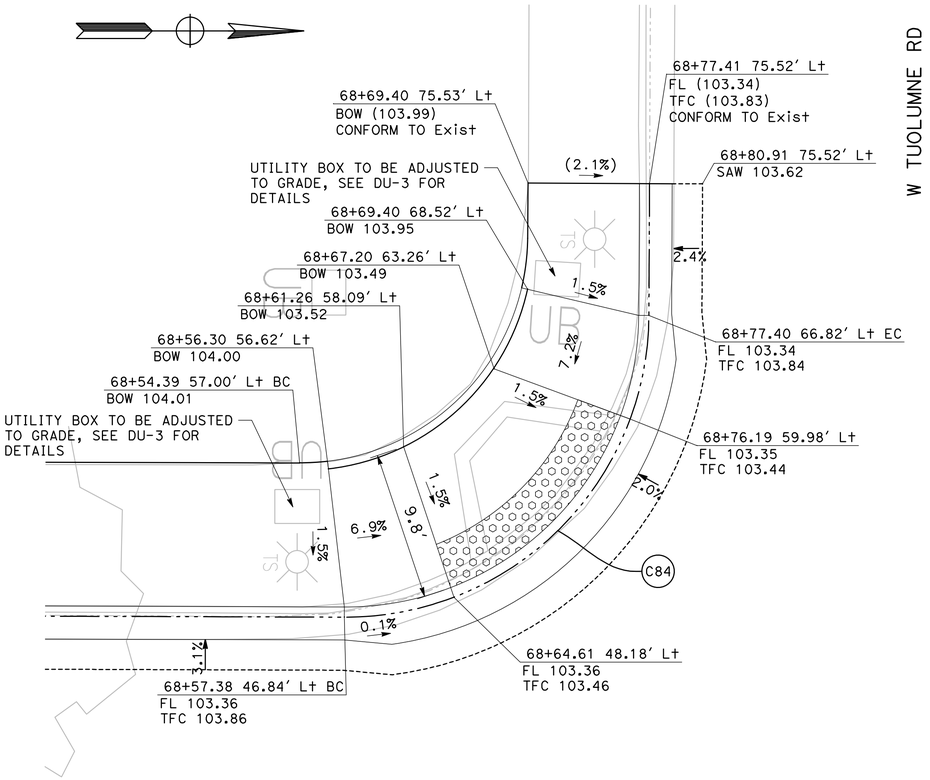
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 106 of 256 Sheets

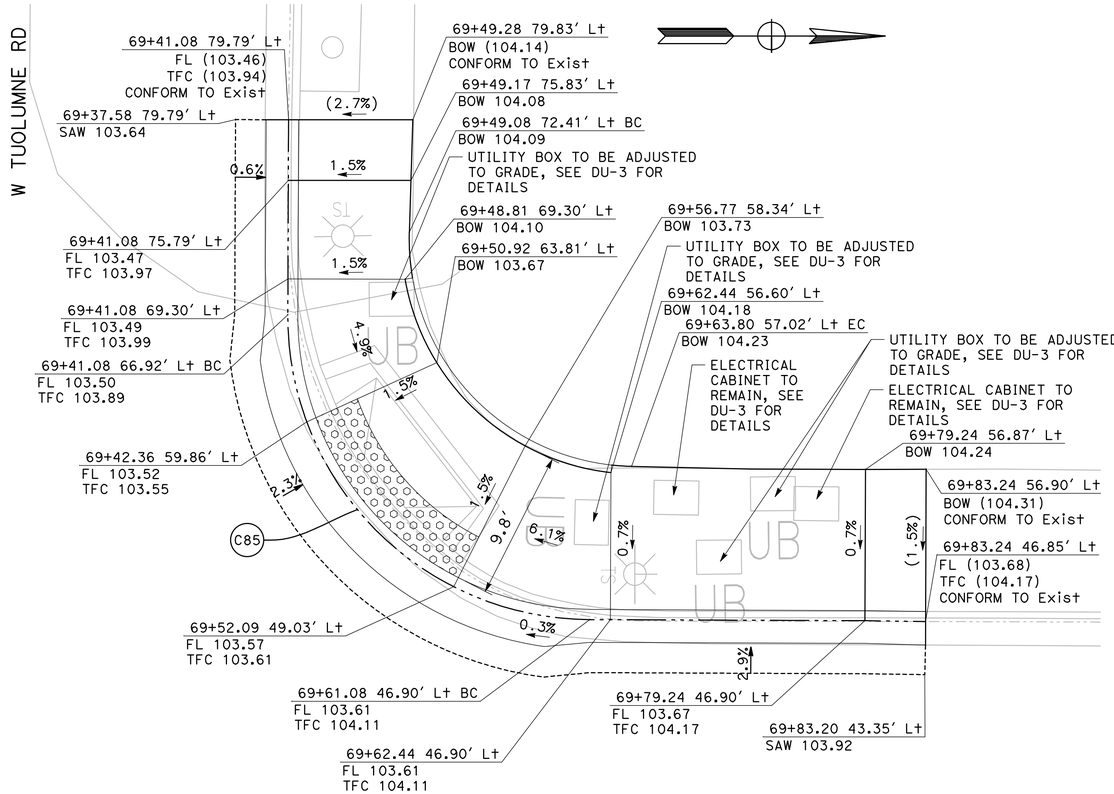
CD-13

CURVE TABLE				
No. X	R	Δ	T	L
C84	20.00′	90°01′04"	20.01′	31.42′
C85	20.00′	90°04′15"	20.02′	31.44′



26 CD-14 **W TUOLUMNE RD / GEER RD SW CURB RAMP**

SCALE: 1" = 5′



27 CD-14 **W TUOLUMNE RD / GEER RD NW CURB RAMP**

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ENRIQUEZ — No. 61515 — exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CONSTRUCTION DETAILS

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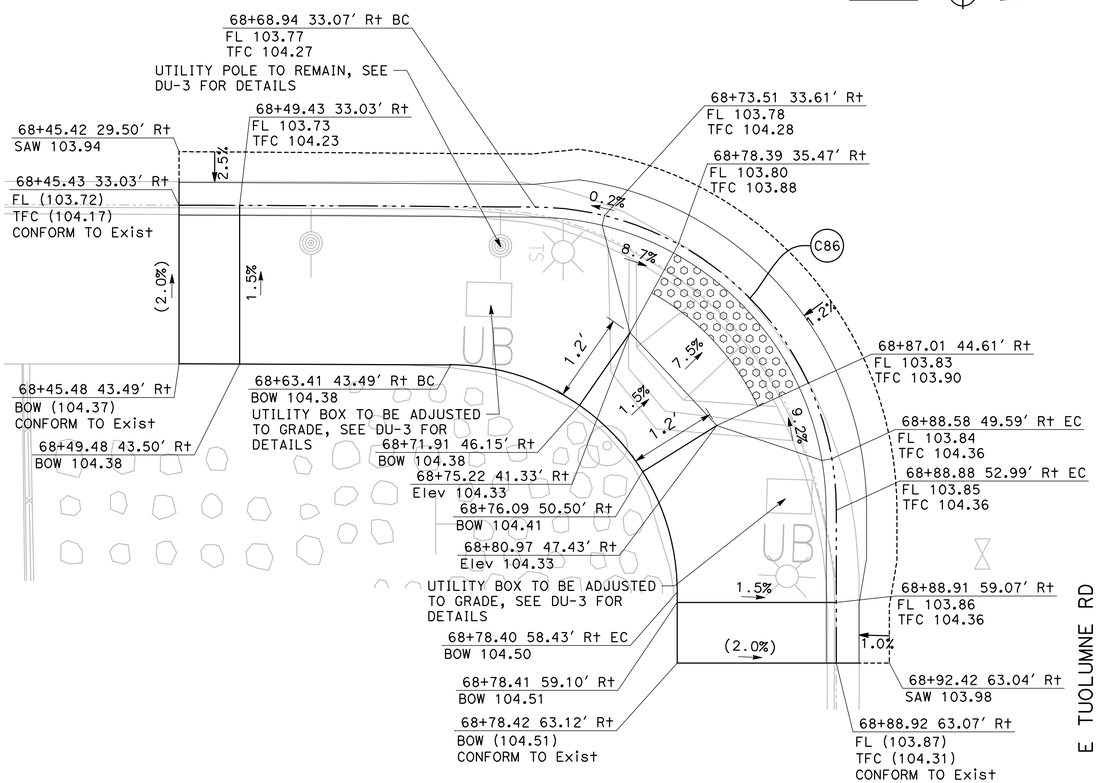
CD-14

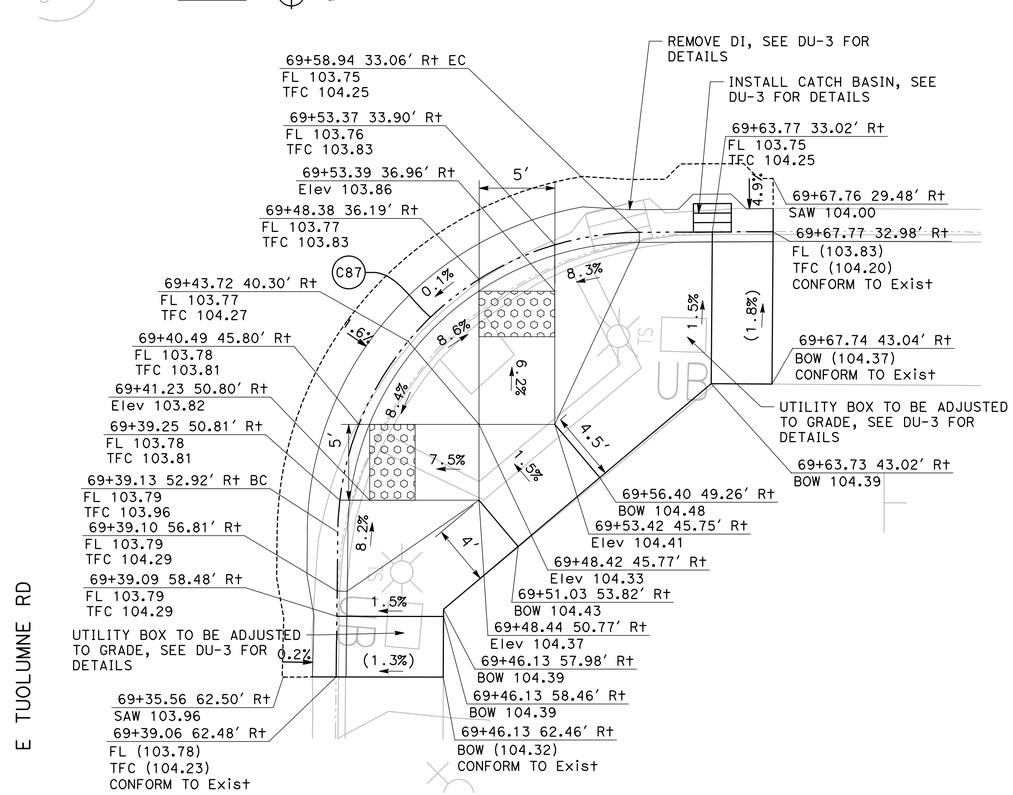
CURVE TABLE				
No. X	R	Δ	T	L
C86	20.00′	89°37′06"	19.87′	31.28′
C87	20.00′	89°04′20"	19.68′	31.09′



28 CD-15

E TUOLUMNE RD / GEER RD SE CURB RAMPS

SCALE: 1" = 5′



29 CD-15

E TUOLUMNE RD / GEER RD NE CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
5 0 5 10

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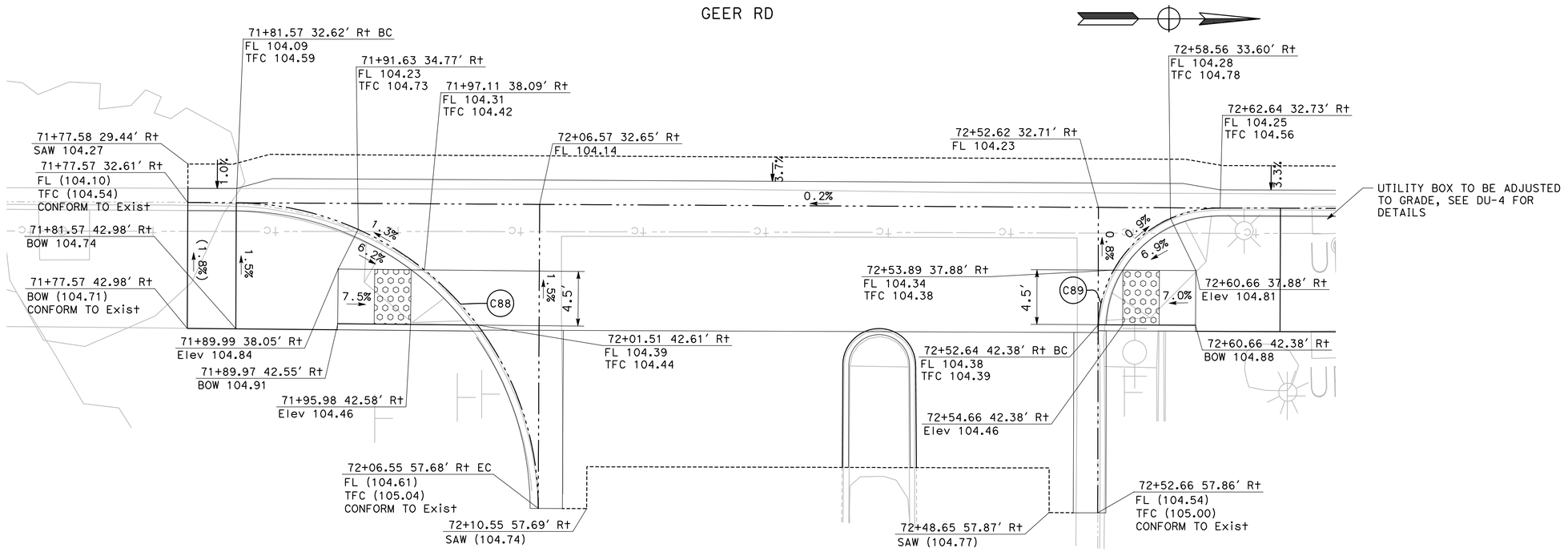
PHASE 2
CONSTRUCTION DETAILS

Sheet 108 of 256 Sheets

CD-15

CURVE TABLE				
No. X	R	Δ	T	L
C88	25.00′	89°45′44"	24.90′	39.17′
C89	10.00′	90°08′53"	10.03′	15.73′



30
CD-16

E TUOLUMNE RD / GEER RD EAST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
EDGAR A. ORIEGA
No. 61556
6/30/27
CIVIL
STATE OF CALIFORNIA

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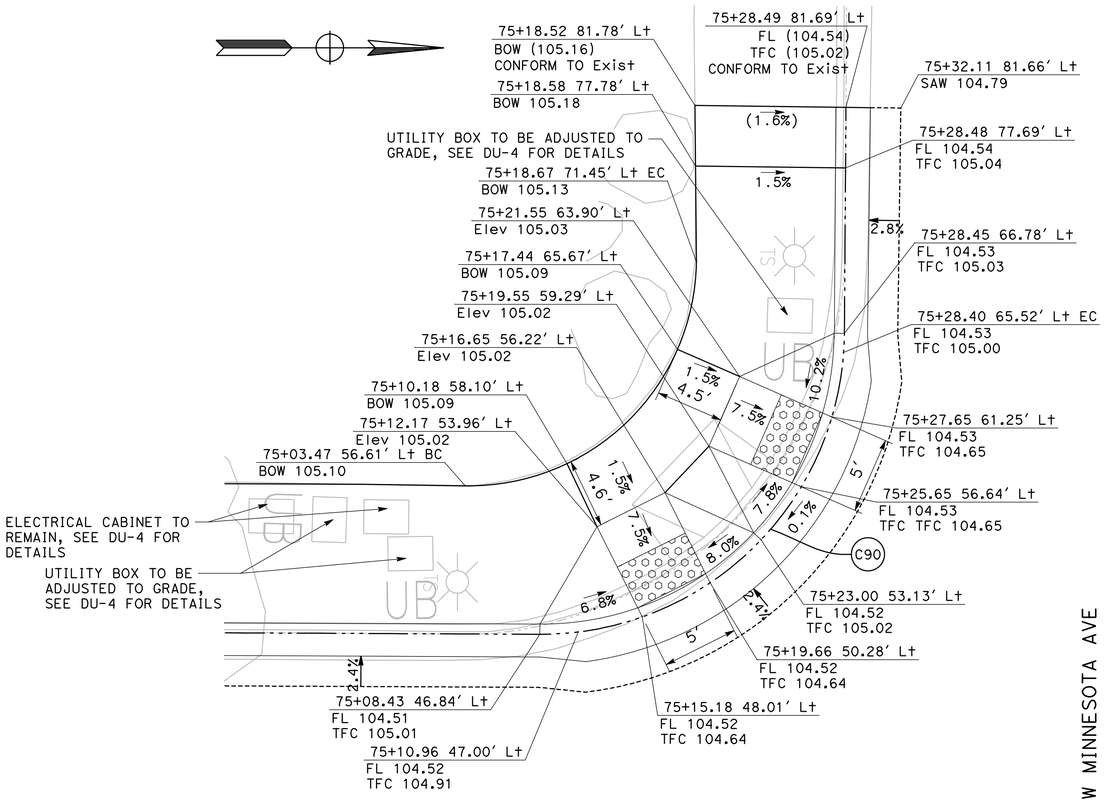
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 109 of 256 Sheets

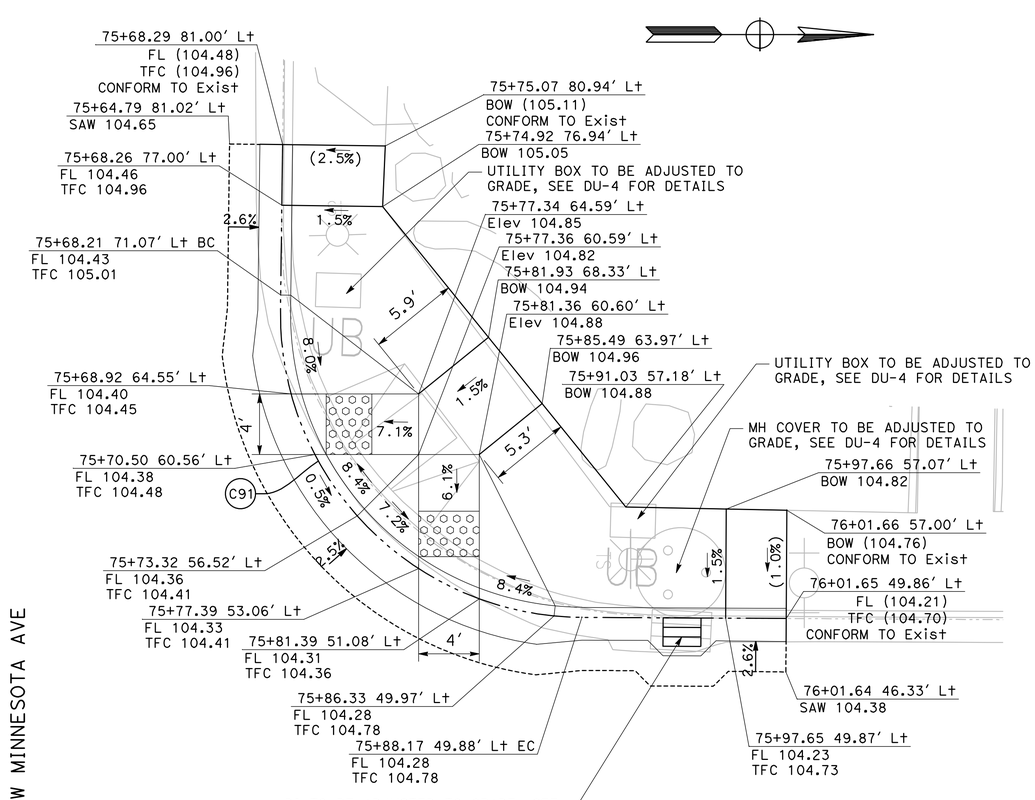
CD-16

CURVE TABLE				
No. X	R	Δ	T	L
C90	20.00′	89°51′27"	19.95′	31.37′
C91	20.00′	90°24′43"	20.14′	31.56′



31 CD-17 **W MINNESOTA AVE / GEER RD SW CURB RAMPS**

SCALE: 1" = 5′



32 CD-17 **W MINNESOTA AVE / GEER RD NW CURB RAMPS**

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK
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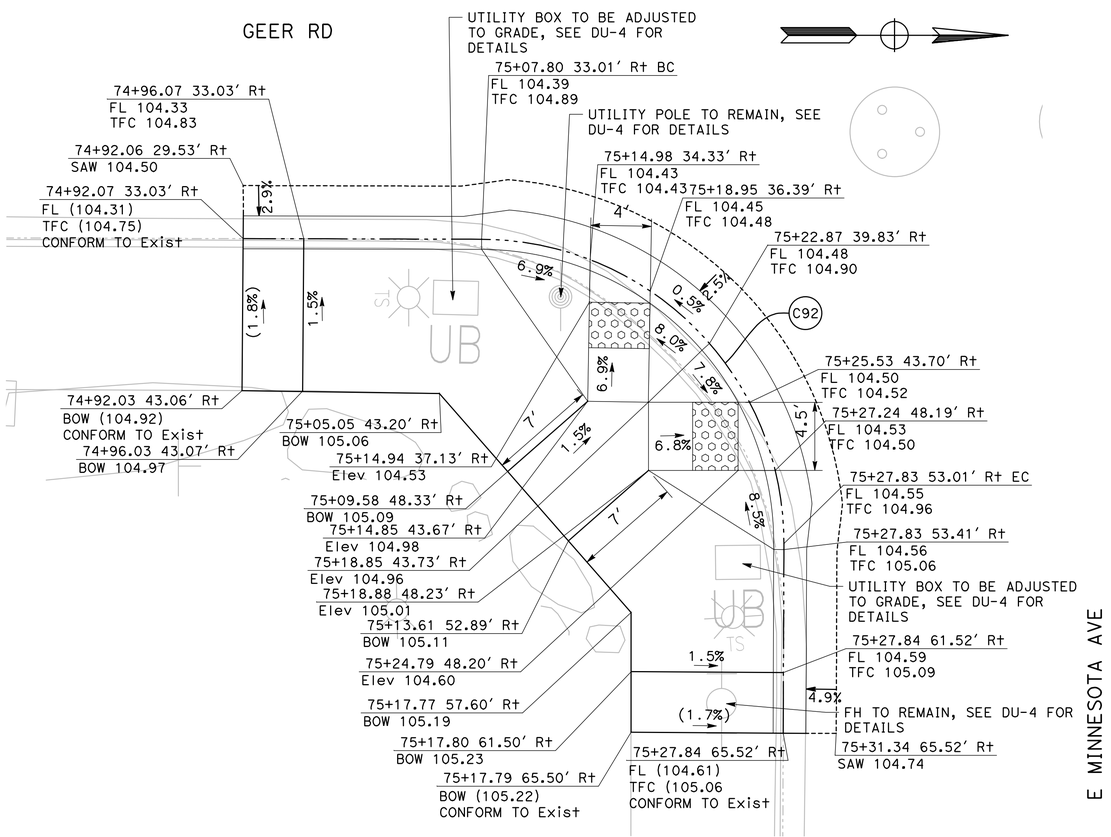
PHASE 2
CONSTRUCTION DETAILS

Sheet 110 of 256 Sheets

CD-17

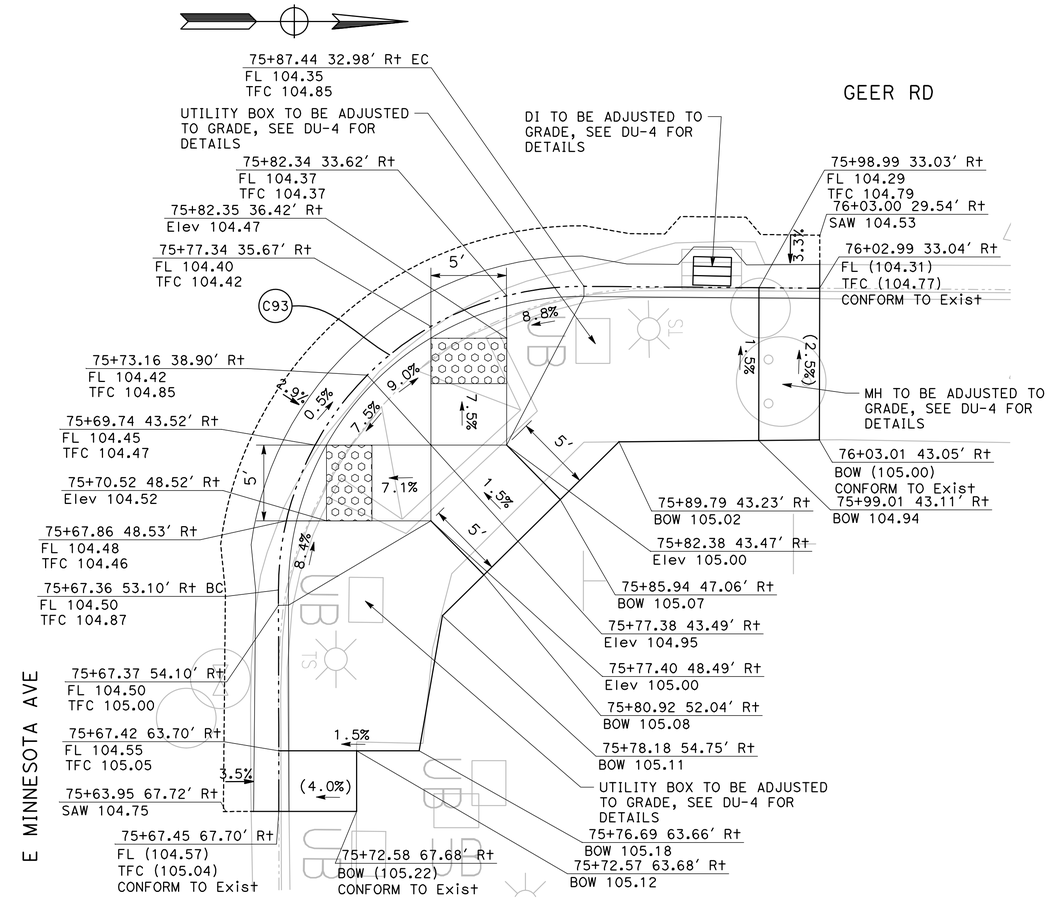
CURVE TABLE				
No. X	R	Δ	T	L
C92	20.00′	90°03′44"	20.02′	31.44′
C93	20.00′	90°33′38"	20.20′	31.61′



33 CD-18

E MINNESOTA AVE / GEER RD SE CURB RAMPS

SCALE: 1" = 5′



34 CD-18

E MINNESOTA AVE / GEER RD NE CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORTEGA — No. 84564 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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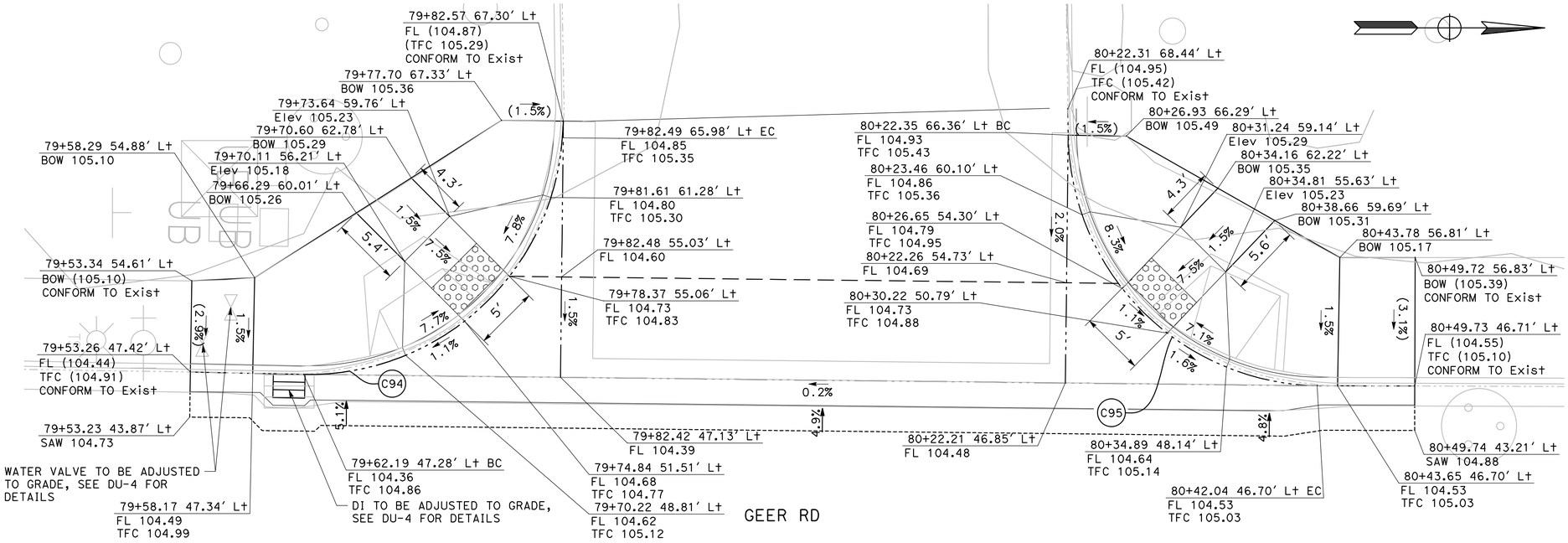
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 111 of 256 Sheets

CD-18

CURVE TABLE				
No. X	R	Δ	T	L
C94	20.00′	87°17′01"	19.07′	30.47′
C95	20.00′	89°04′05"	19.68′	31.09′



35
CD-19

W MINNESOTA RD / GEER RD WEST COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. ORTEGA — No. 61556 — CIVIL — STATE OF CALIFORNIA

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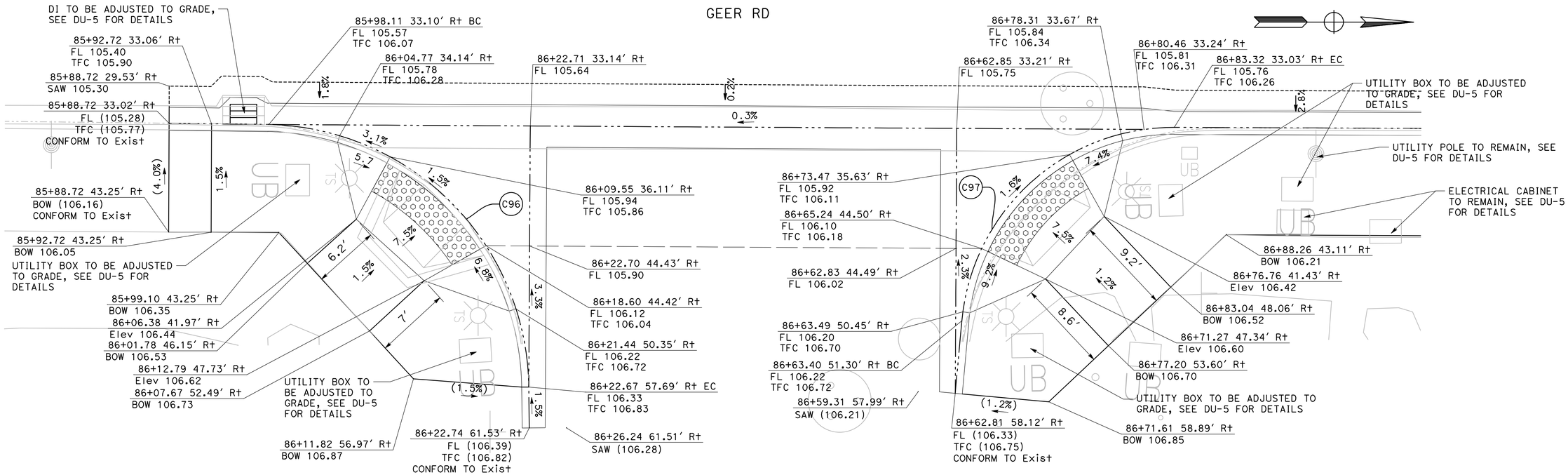
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 112 of 256 Sheets

CD-19

CURVE TABLE				
No. X	R	Δ	T	L
C96	25.00′	88°01′16"	24.15′	38.41′
C97	20.00′	76°23′30"	15.74′	26.67′



36
CD-20

REGIS ST / GEER RD COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ORIEGA — No. 61557 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

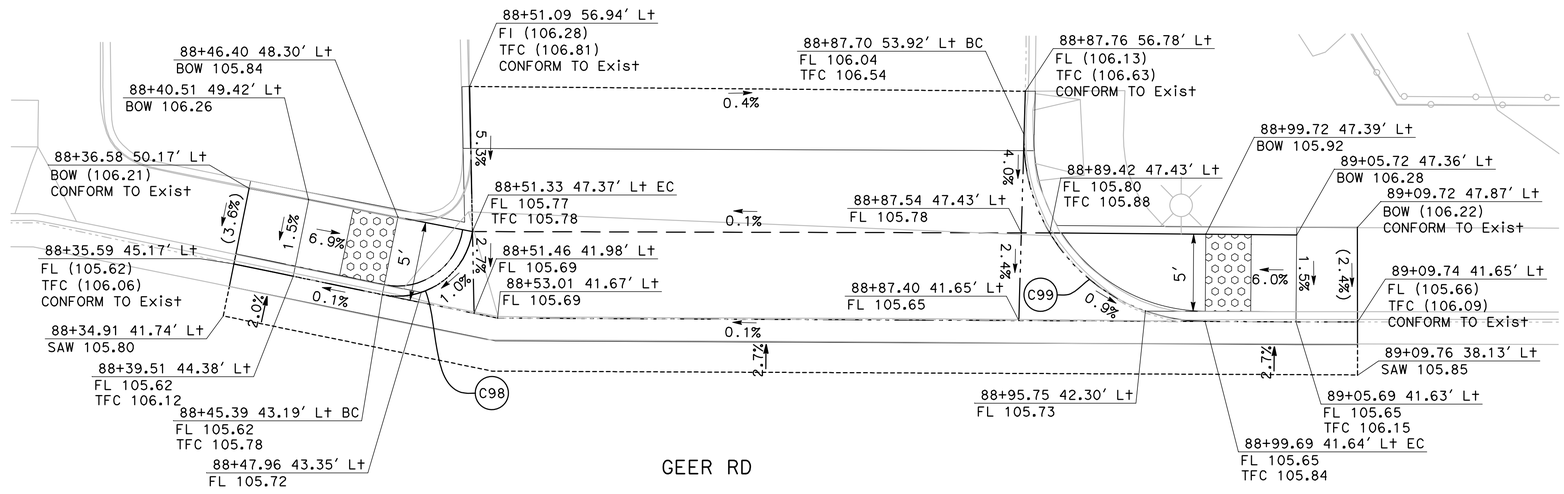
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

CD-20

CURVE TABLE				
No. X	R	Δ	T	L
C98	5.00′	93°10′18"	5.28′	8.13′
C99	12.00′	86°15′44"	11.24′	18.07′



37
CD-21

HEDSTROM RD / GEER RD COMMERCIAL DRIVEWAY & CURB RAMPS

SCALE: 1" = 5′

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=5′
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. MORIEGA
No. 61554
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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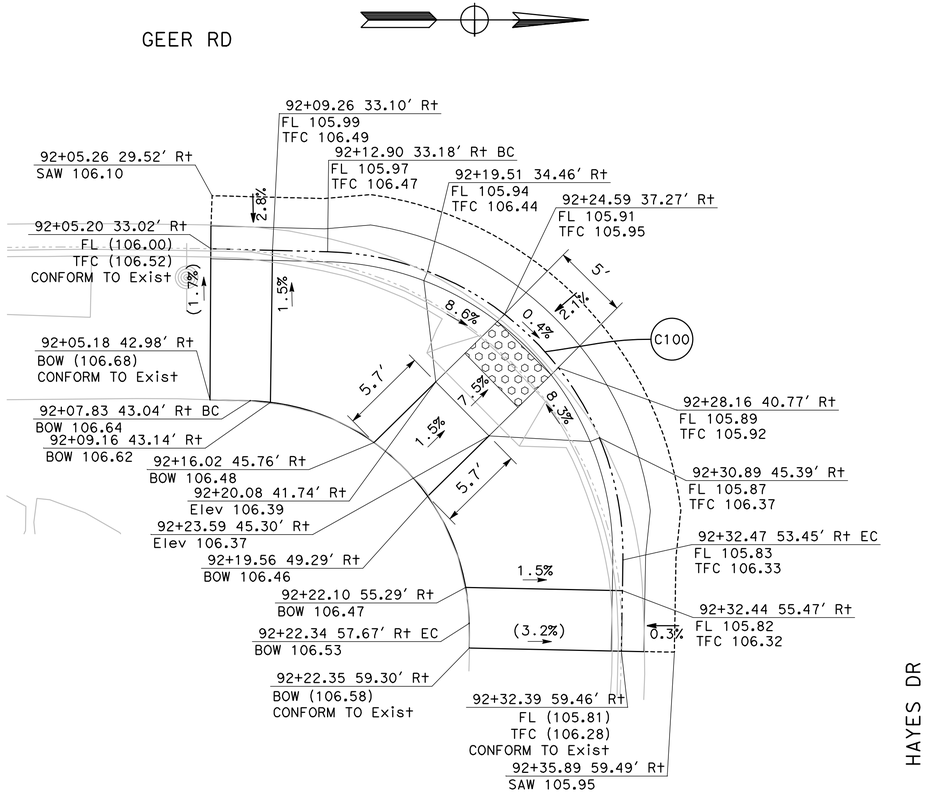
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 114 of 256 Sheets

CD-21

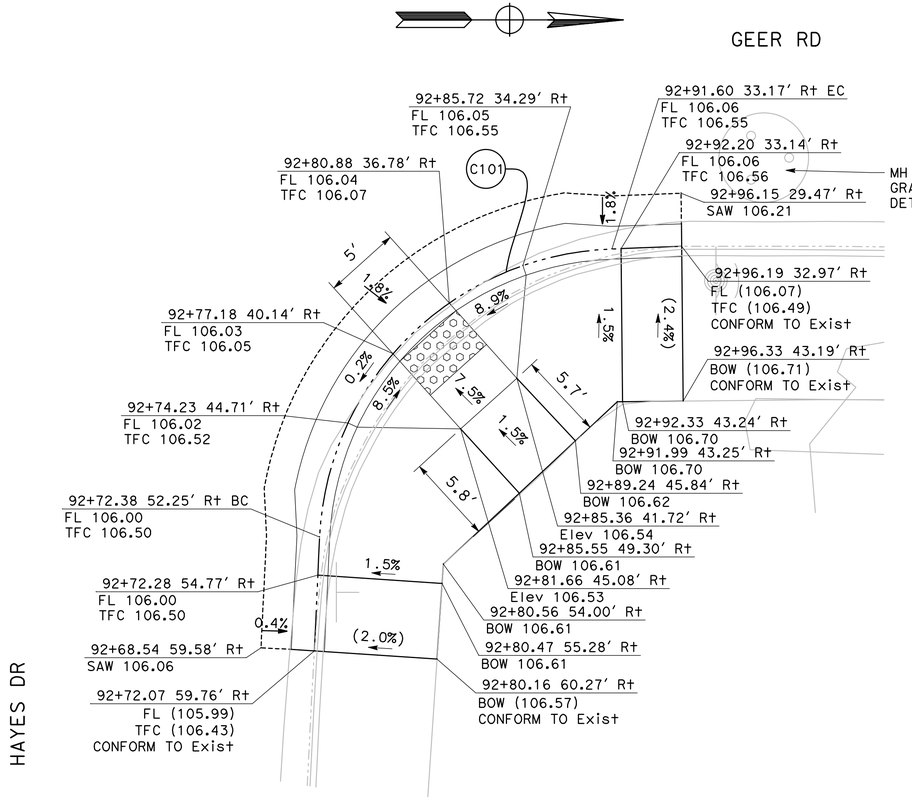
CURVE TABLE				
No. X	R	Δ	T	L
C100	20.00′	89°32′41"	19.84′	31.26′
C101	20.00′	85°12′41"	18.39′	29.74′



38 CD-22

HAYES DR / GEER RD SE CURB RAMP

SCALE: 1" = 5′



39 CD-22

HAYES DR / GEER RD NE CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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MARK THOMAS
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FRESNO, CALIFORNIA 93711

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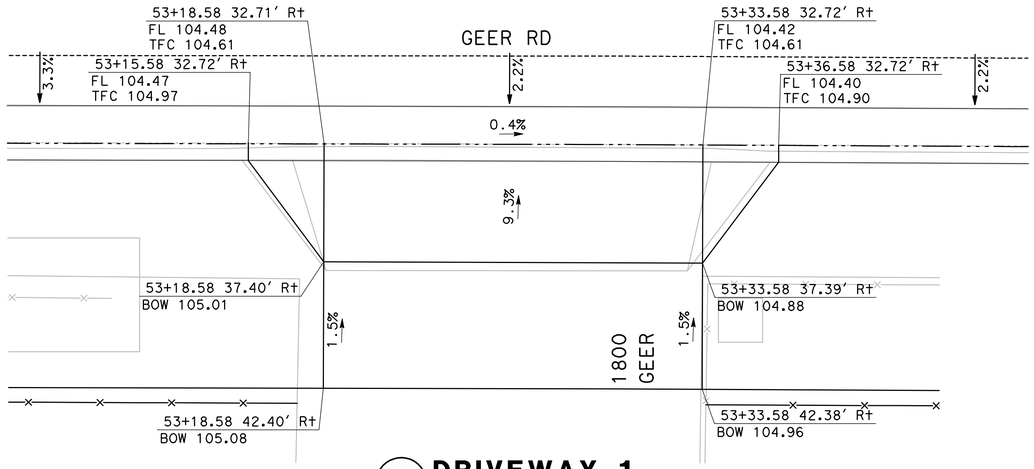
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

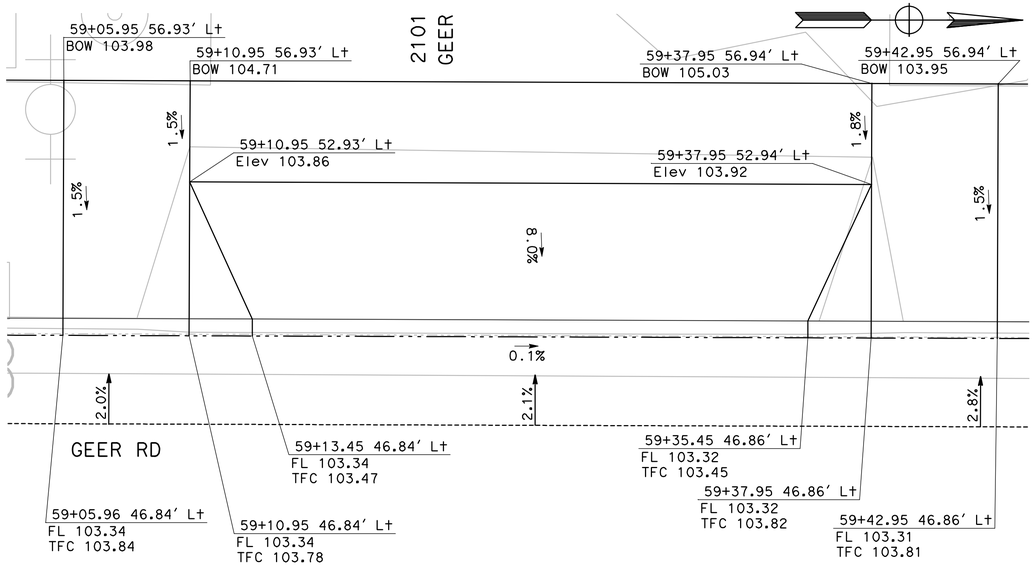
Sheet 115 of 256 Sheets

CD-22



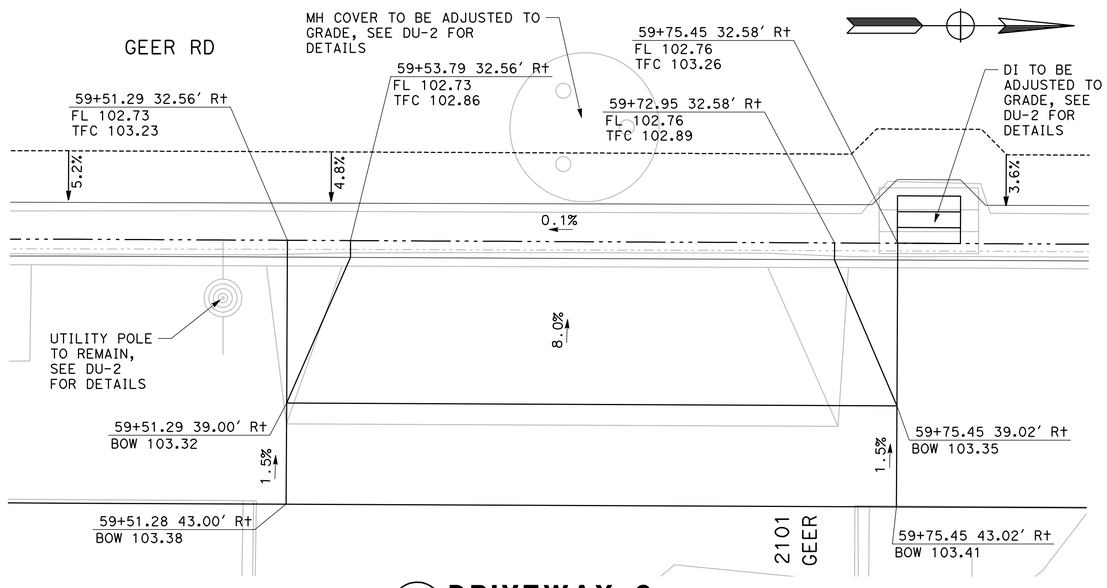
40 CD-23 **DRIVEWAY 1**

SCALE: 1" = 3'



41 CD-23 **DRIVEWAY 2**

SCALE: 1" = 3'



42 CD-23 **DRIVEWAY 3**

SCALE: 1" = 3'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER
JULIAN A. ORTEGA
No. 81554
6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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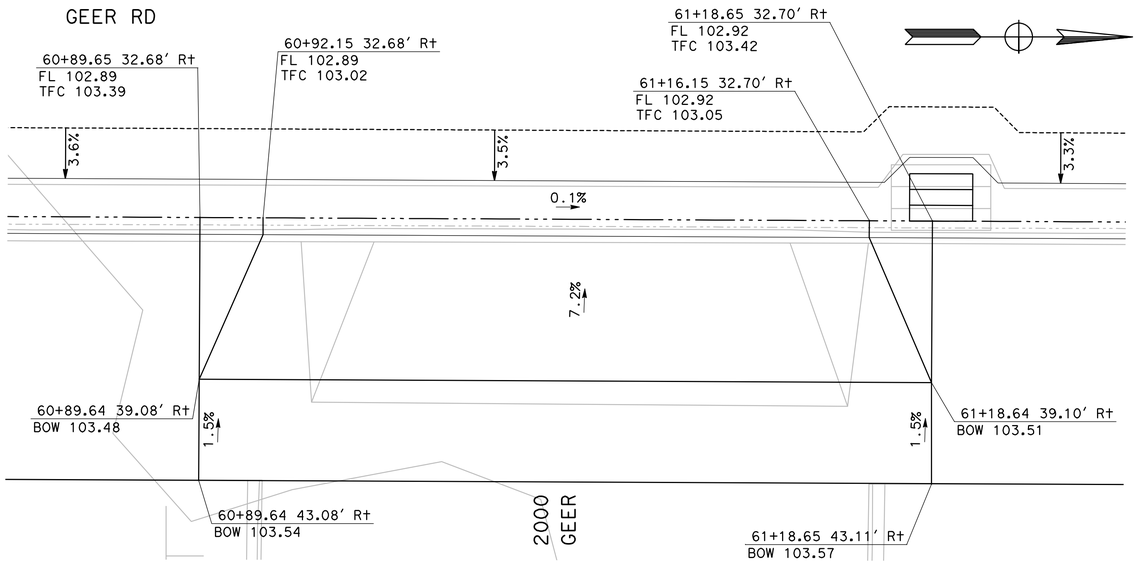
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

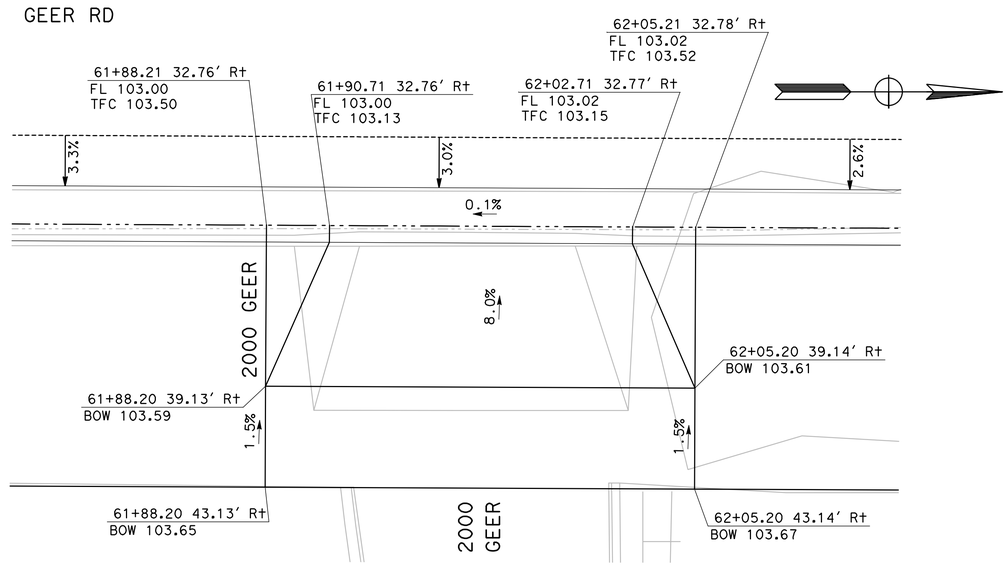
Sheet 116 of 256 Sheets

CD-23



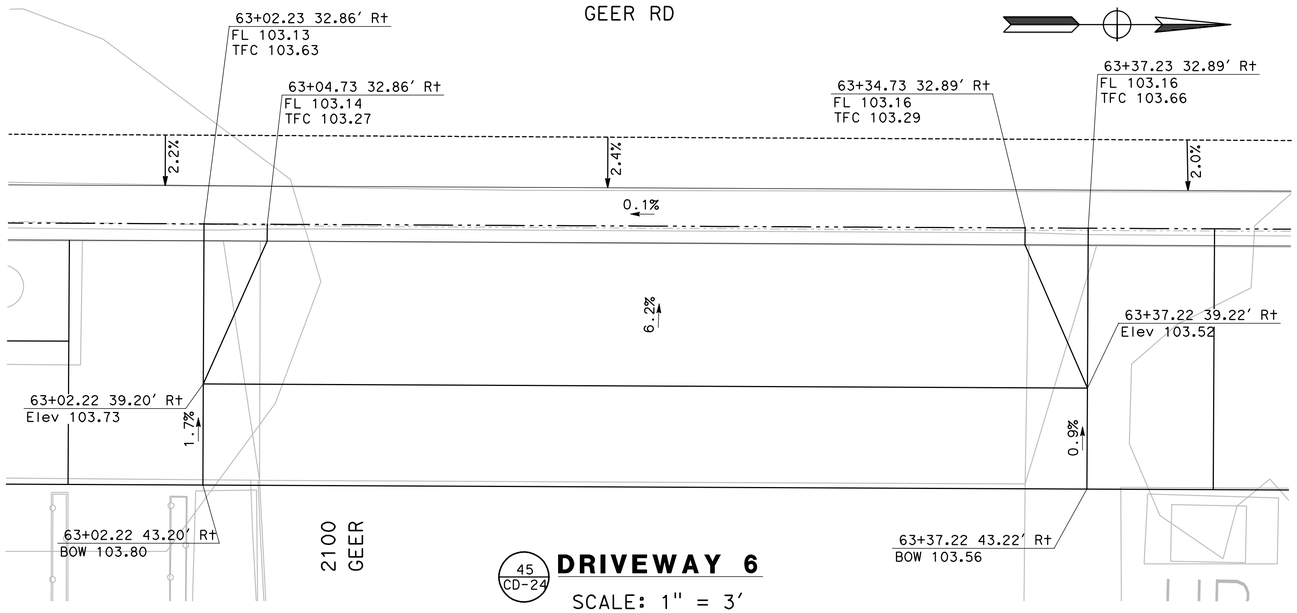
43 CD-24 **DRIVEWAY 4**

SCALE: 1" = 3'



44 CD-24 **DRIVEWAY 5**

SCALE: 1" = 3'



45 CD-24 **DRIVEWAY 6**

SCALE: 1" = 3'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER EDGAR A. MORIEGA No. 91955 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

Sheet 117 of 256 Sheets

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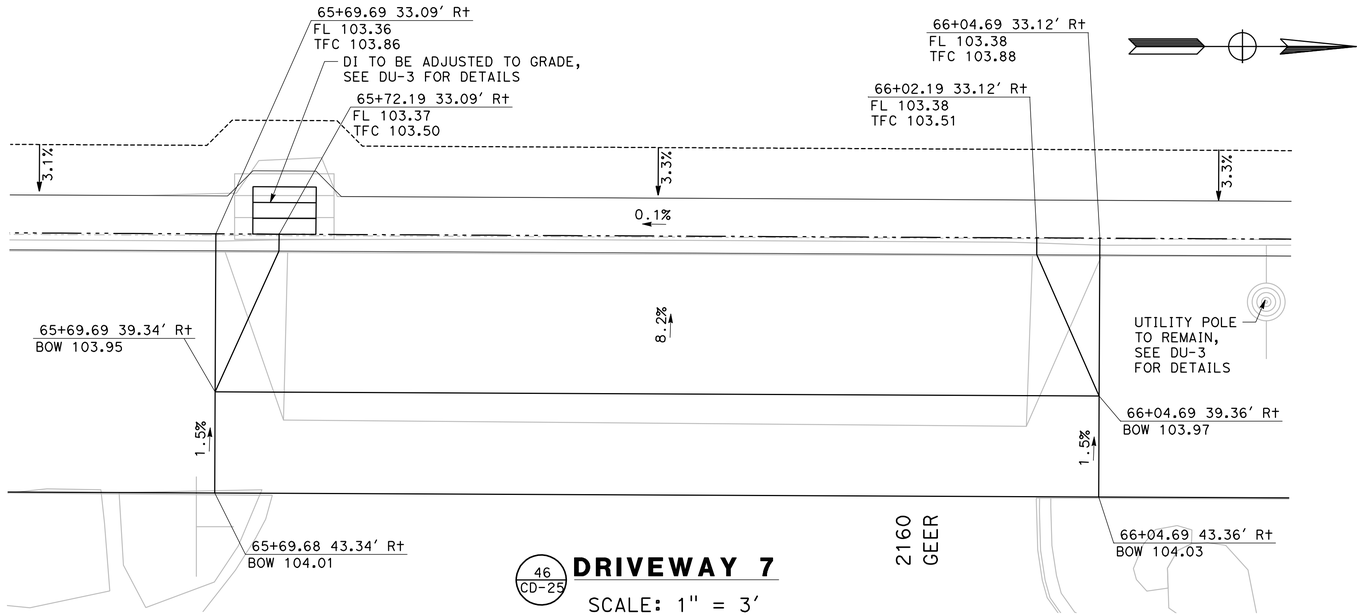
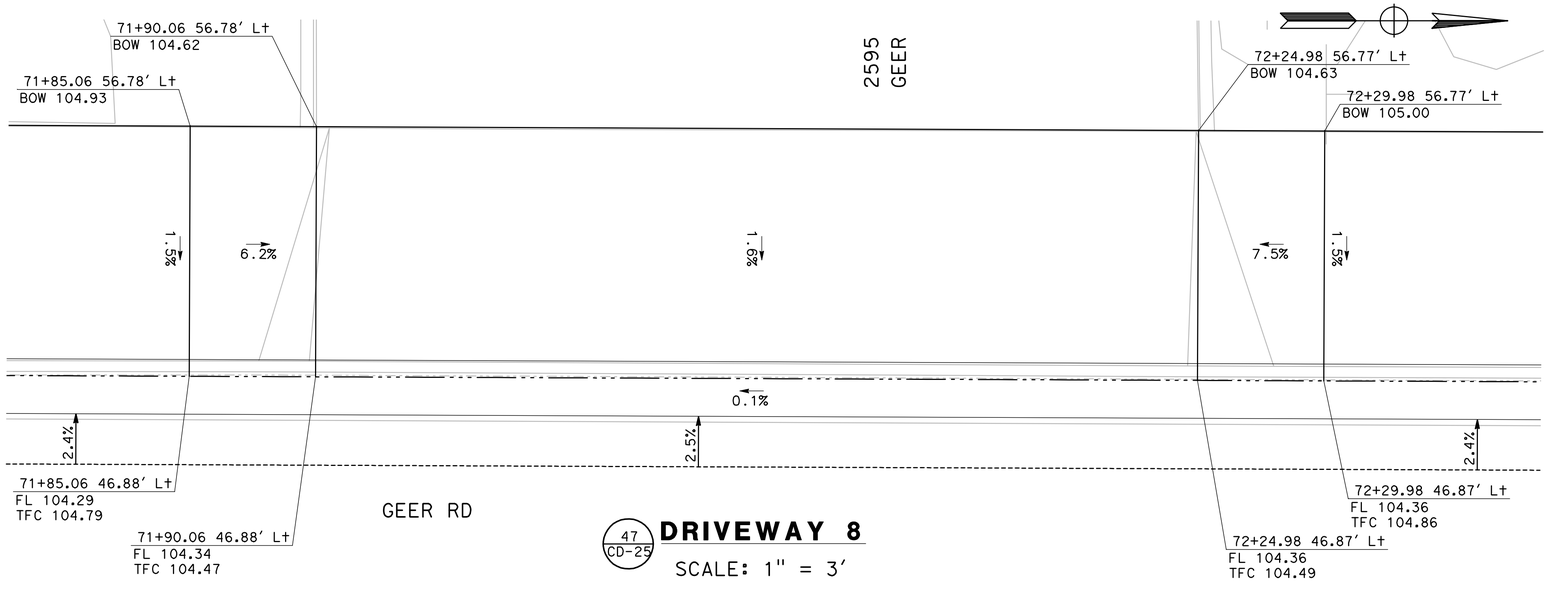


46 CD-25 **DRIVEWAY 7**

SCALE: 1" = 3'



47 CD-25 **DRIVEWAY 8**

SCALE: 1" = 3'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ARRIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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SUITE 150
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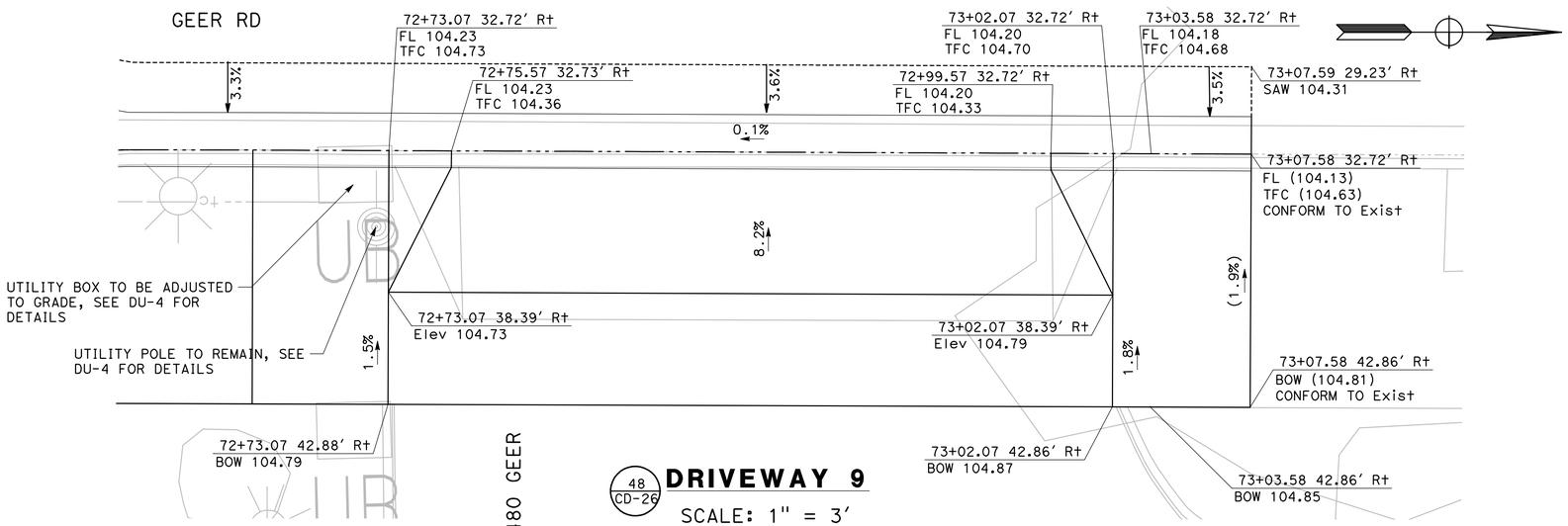
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
CONSTRUCTION DETAILS

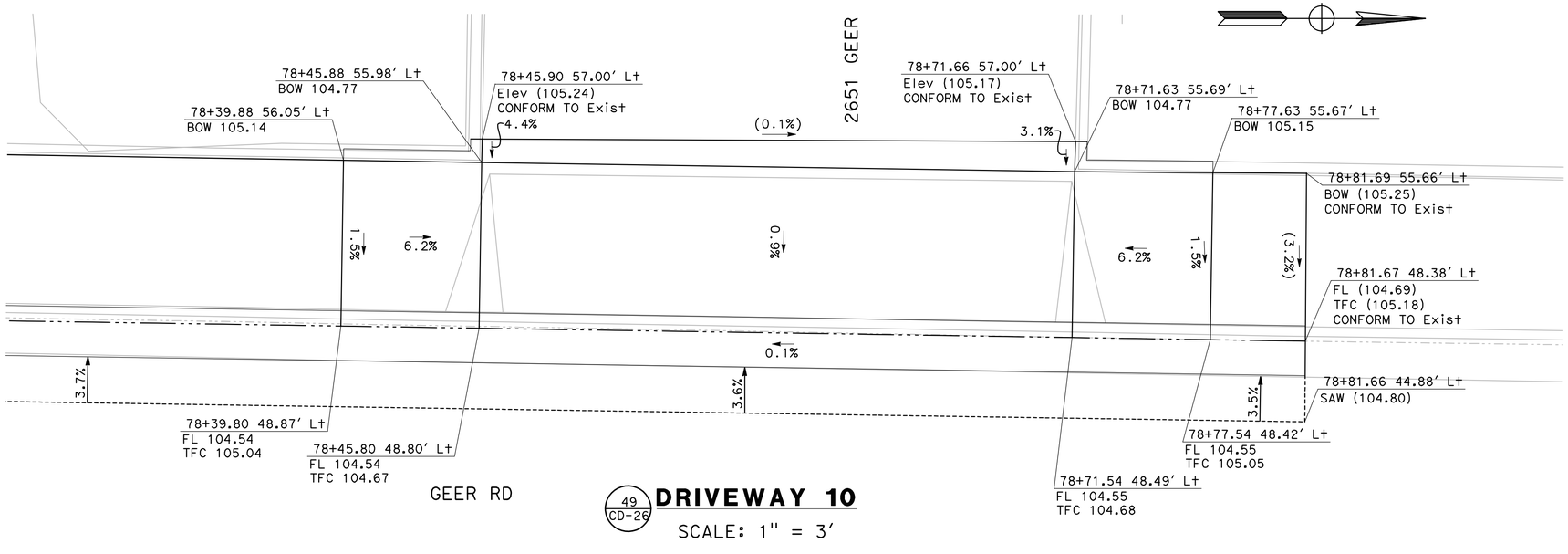
Sheet 118 of 256 Sheets

CD-25



48 CD-26 **DRIVEWAY 9**

SCALE: 1" = 3'



49 CD-26 **DRIVEWAY 10**

SCALE: 1" = 3'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=3'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — EDWARD A. MORIEGA — No. C 61654 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
CONSTRUCTION DETAILS

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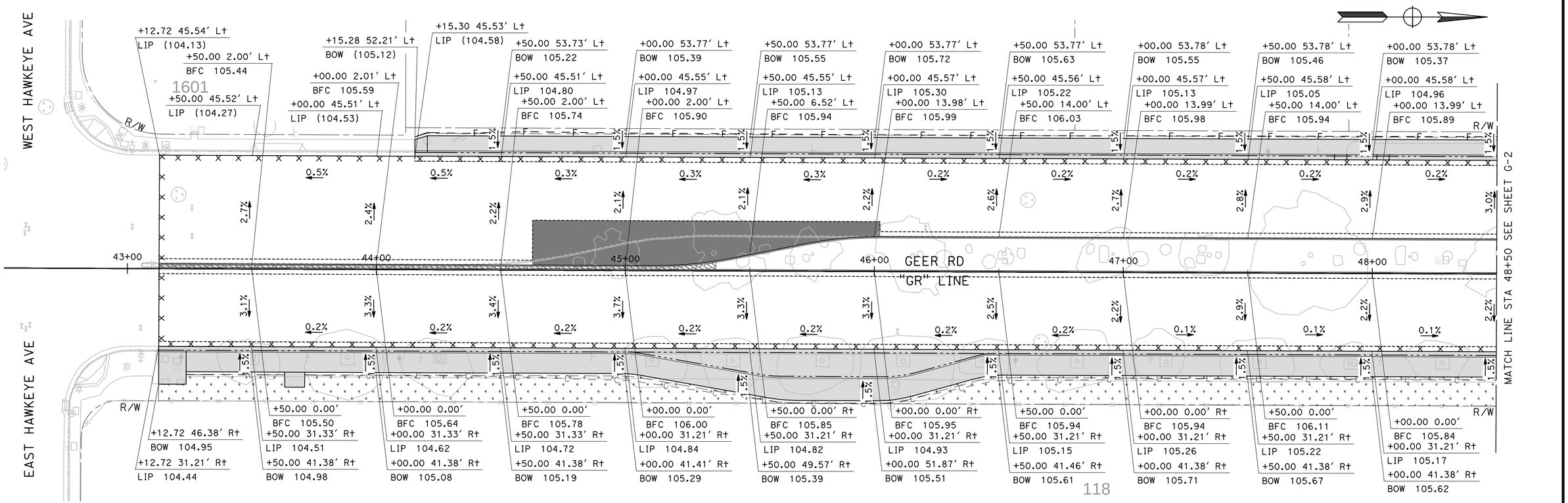
NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. FOR CURB RAMP AND DRIVEWAY APPROACH STATIONS/OFFSETS AND ELEVATIONS, SEE CONSTRUCTION DETAIL SHEETS.
3. FOR SAWCUT AND RECONSTRUCTIONS LIMITS, SEE LAYOUT SHEETS.

LEGEND:

(XX.XX) EXISTING ELEVATION



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — RICARDO A. MORIEGA — No. 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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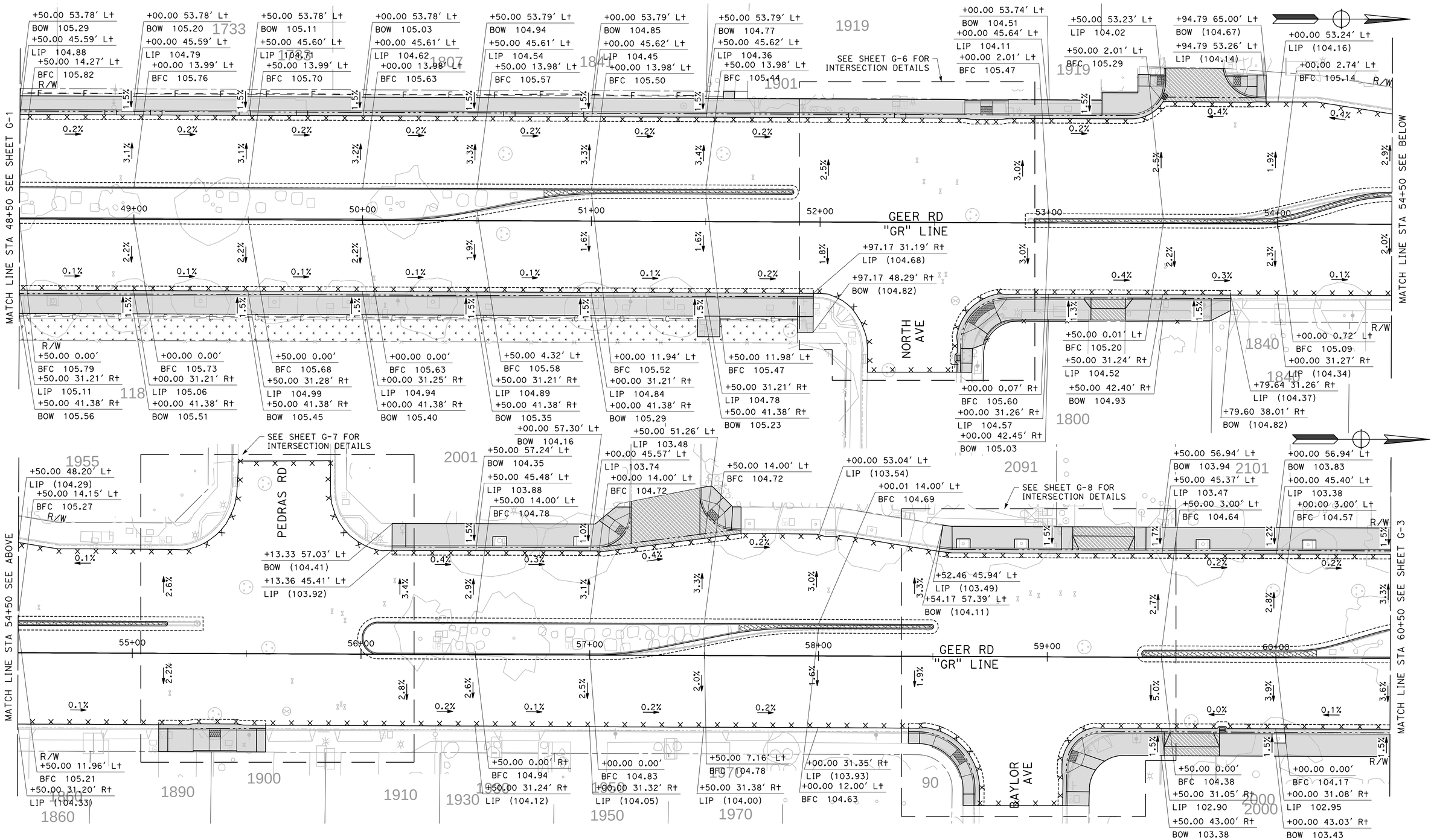
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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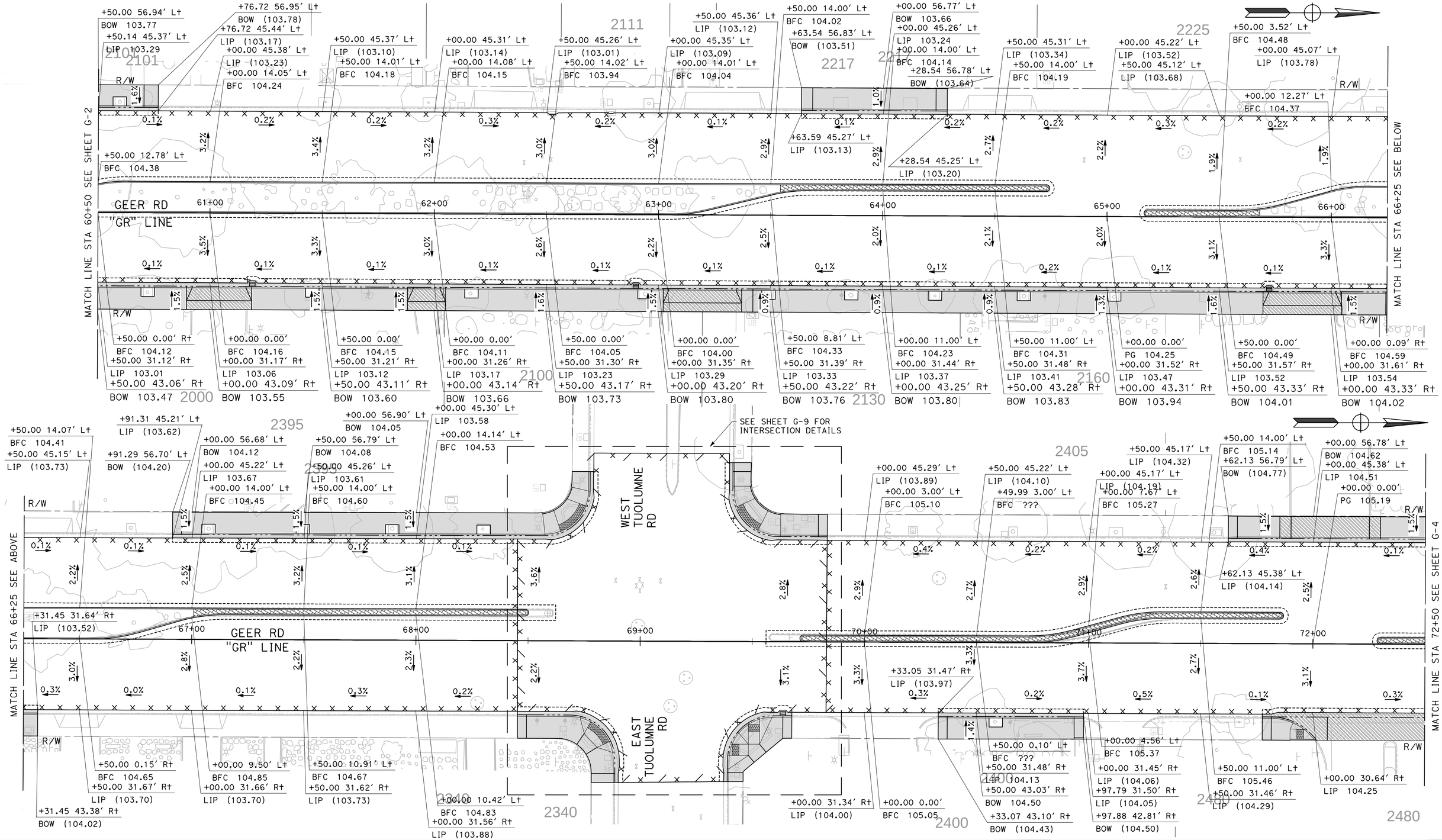
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 121 of 256 Sheets

G-2



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JORGE R. ARRIEGA No. E/3/22 CIVIL STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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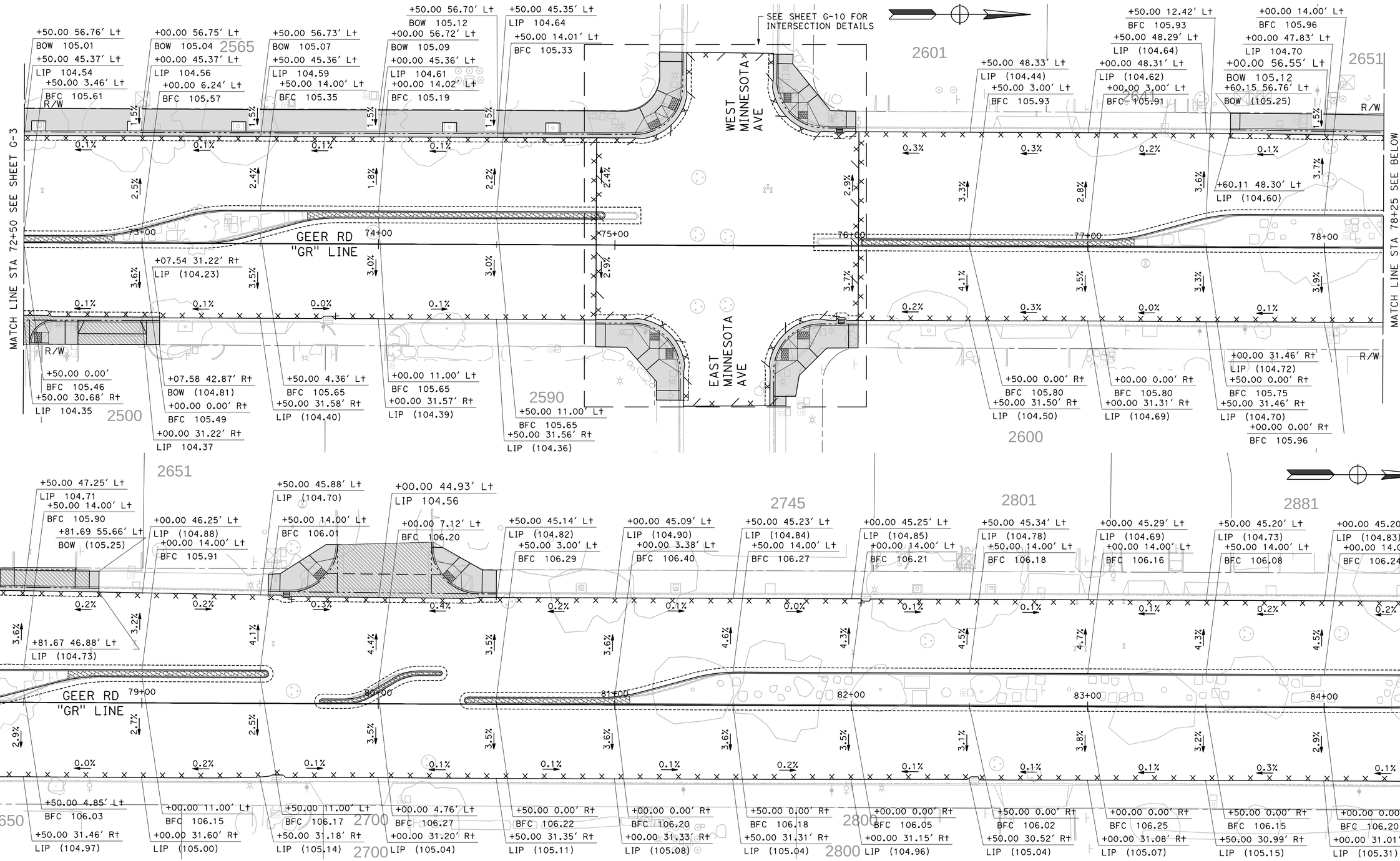
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 122 of 256 Sheets

G-3



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — DOUGLAS A. ORIEGA — No. C 51554 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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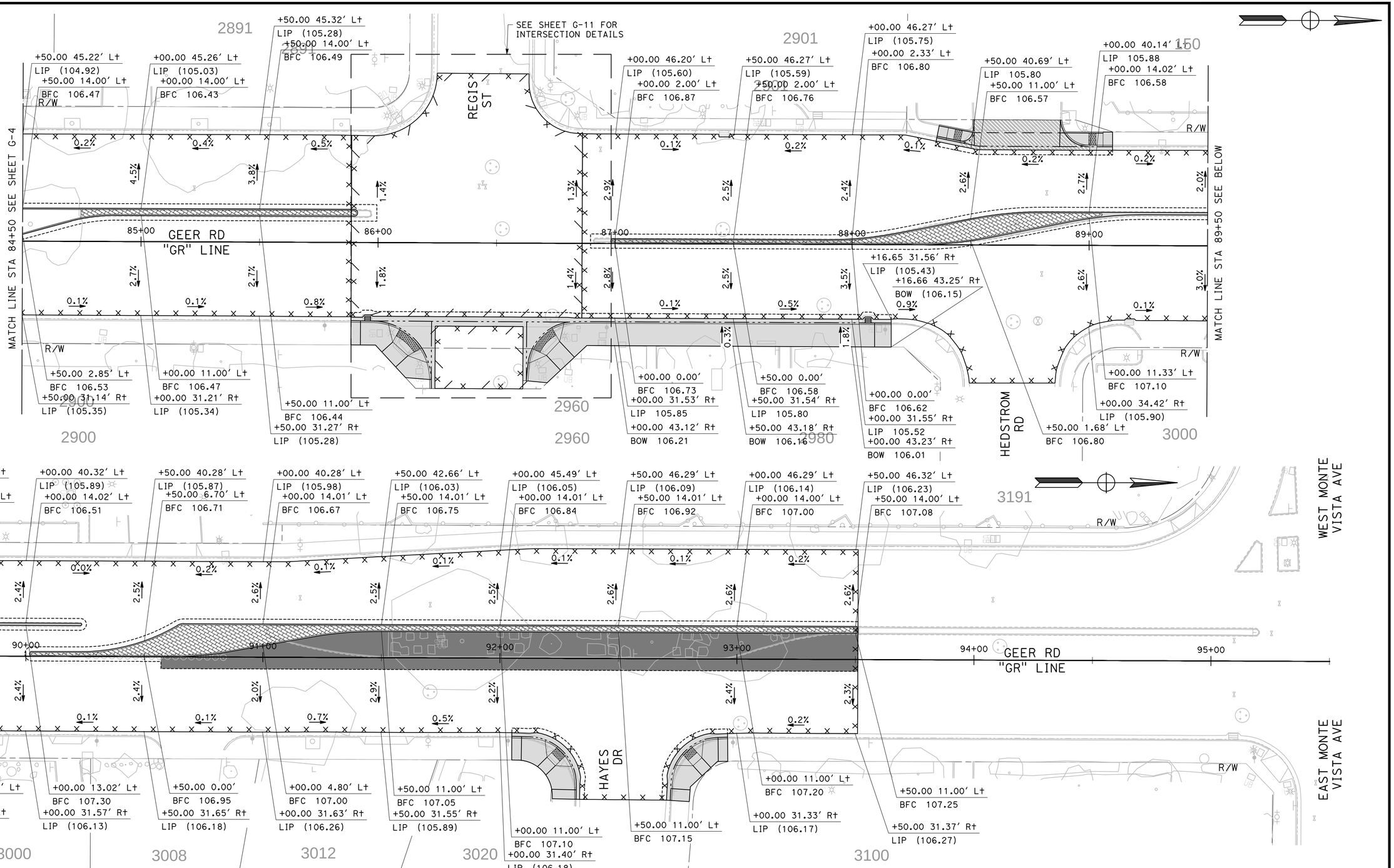
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
GRADING PLANS

Sheet 123 of 256 Sheets

G-4



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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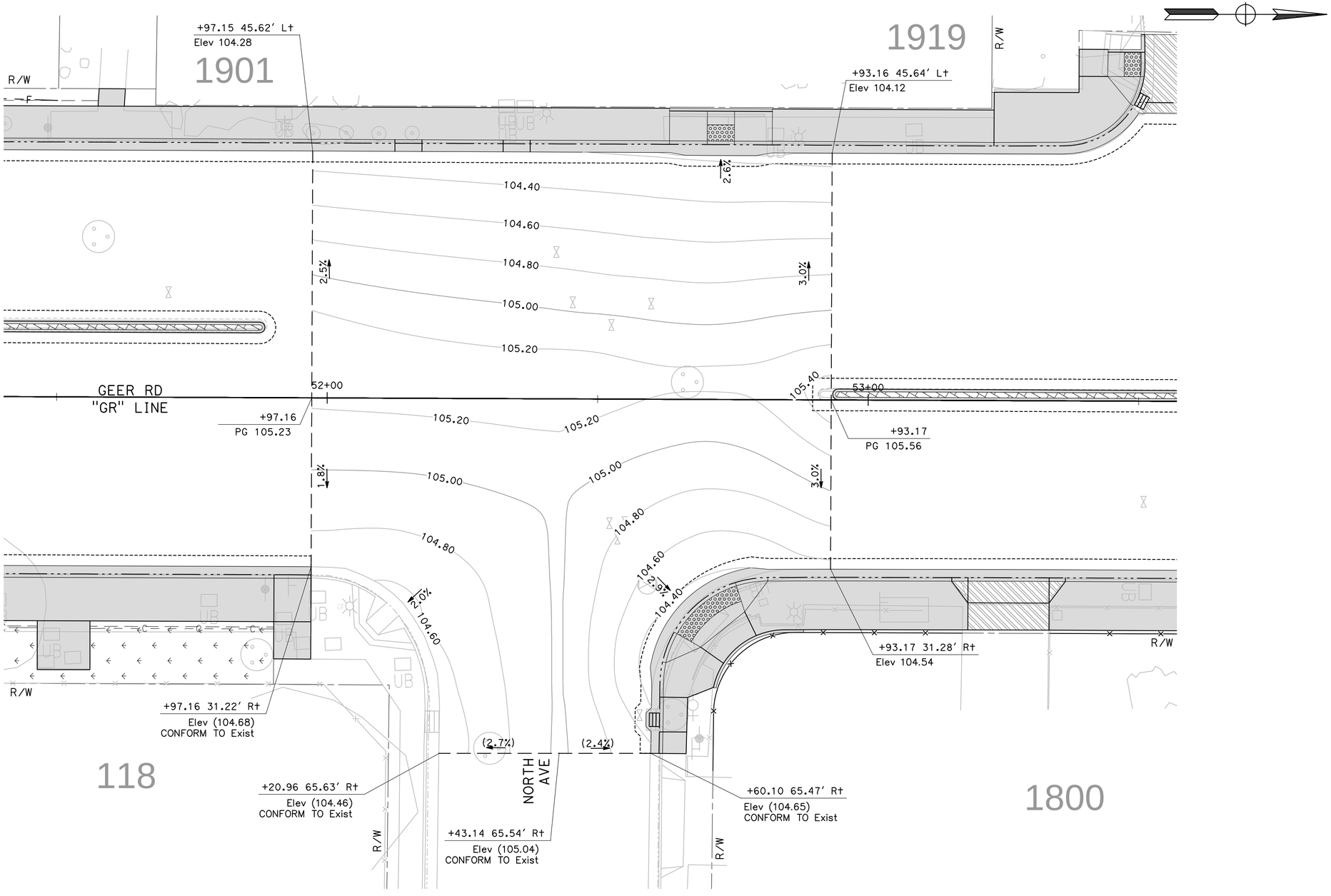
SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSHUA A. MORIEGA — No. C 91554 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS



1 / G-6 **NORTH AVE / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. MORIEGA — No. C 61552 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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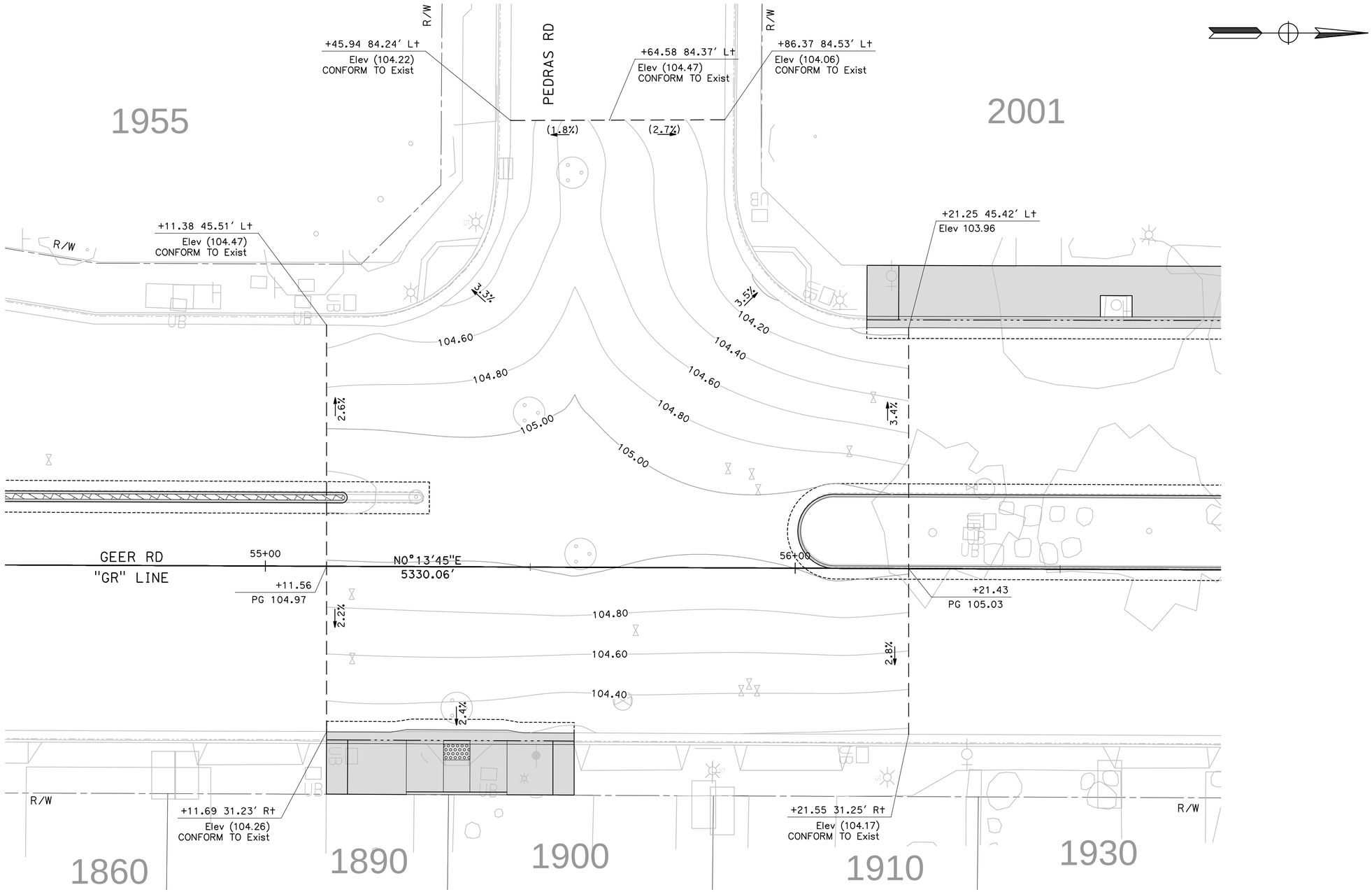
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 125 of 256 Sheets

G-6



1 / G-7 **PEDRAS RD / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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SUITE 150
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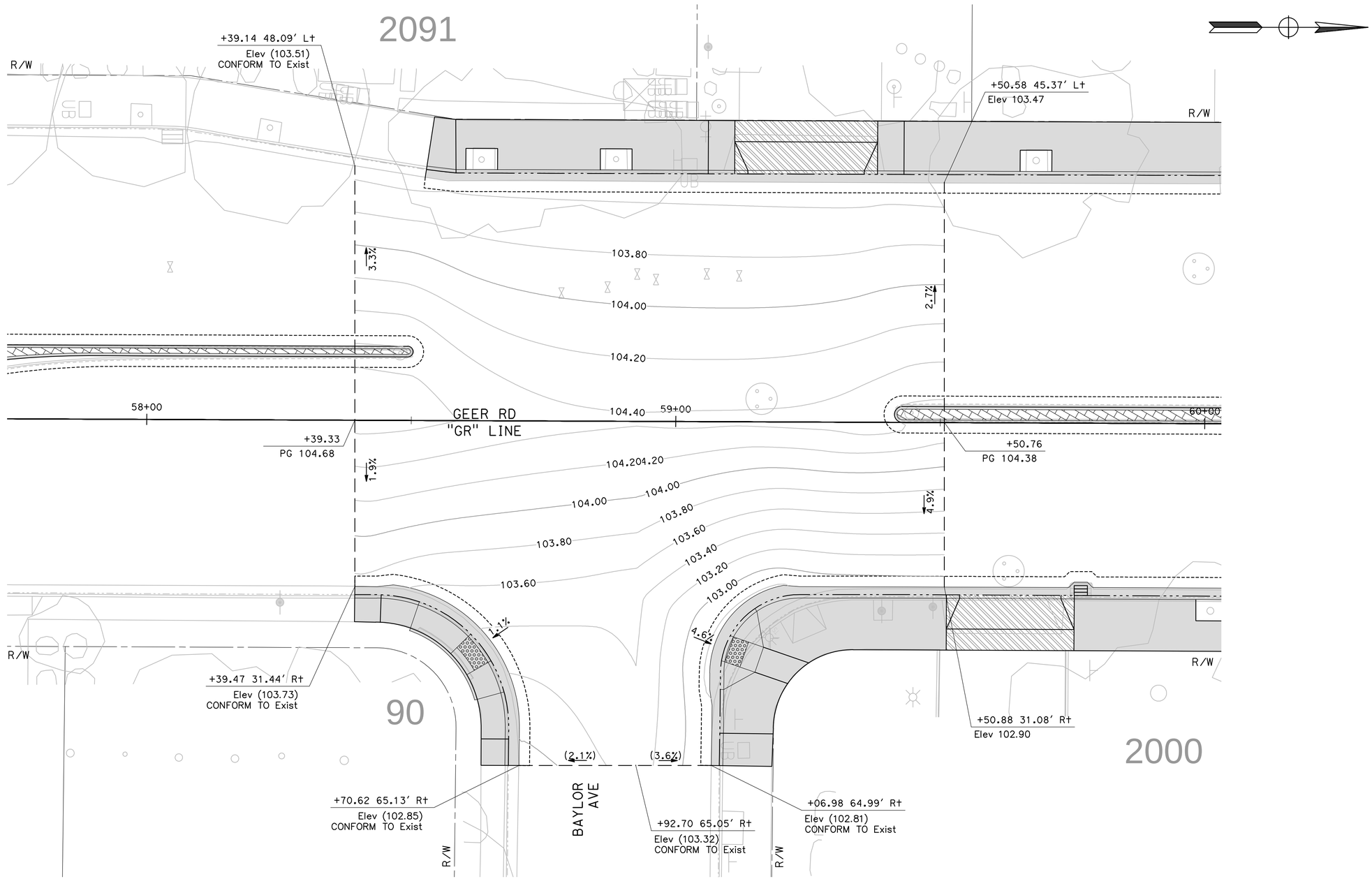
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 126 of 256 Sheets

G-7



1 / G-8 **BAYLOR AVE / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — ANTONIO R. ORTEGA — No. 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

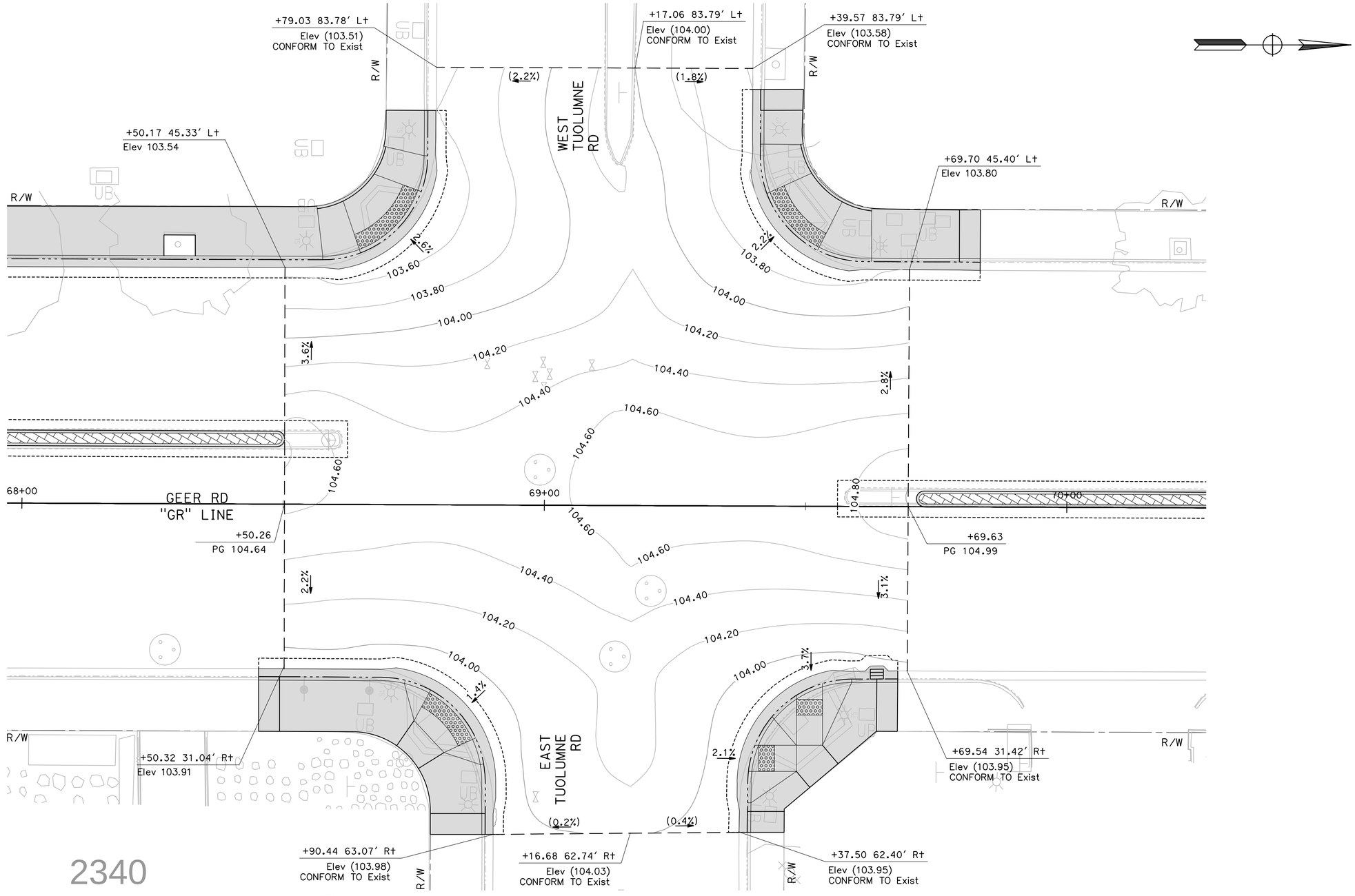
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 127 of 256 Sheets

G-8



2340

1 / G-9 **TOULUMNE RD / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — CRISTOBAL A. MORIEGA — No. C 81554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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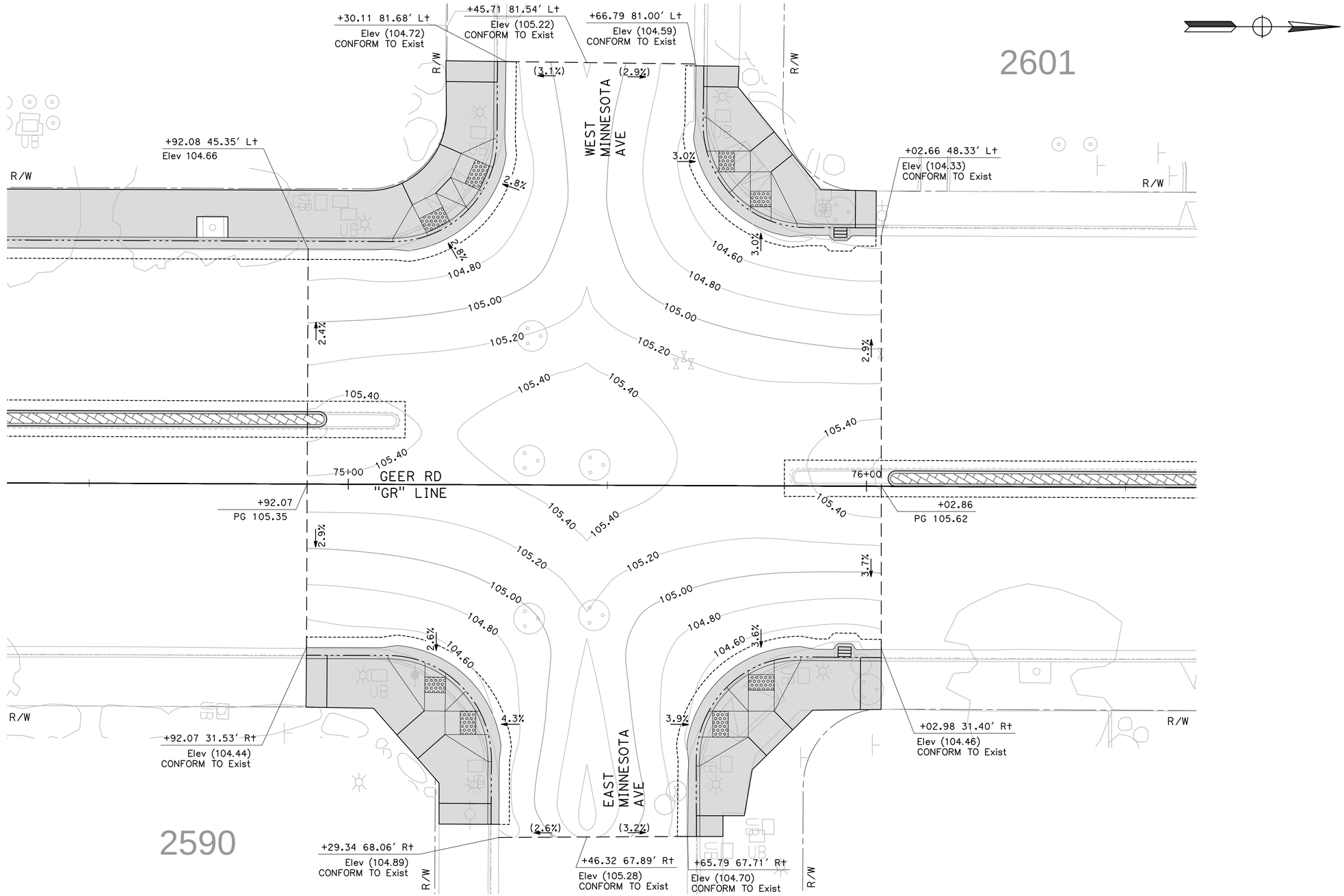
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

Sheet 128 of 256 Sheets

G-9



1 / G-10 **MINNESOTA AVE / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. TORIEGA — No. 84158 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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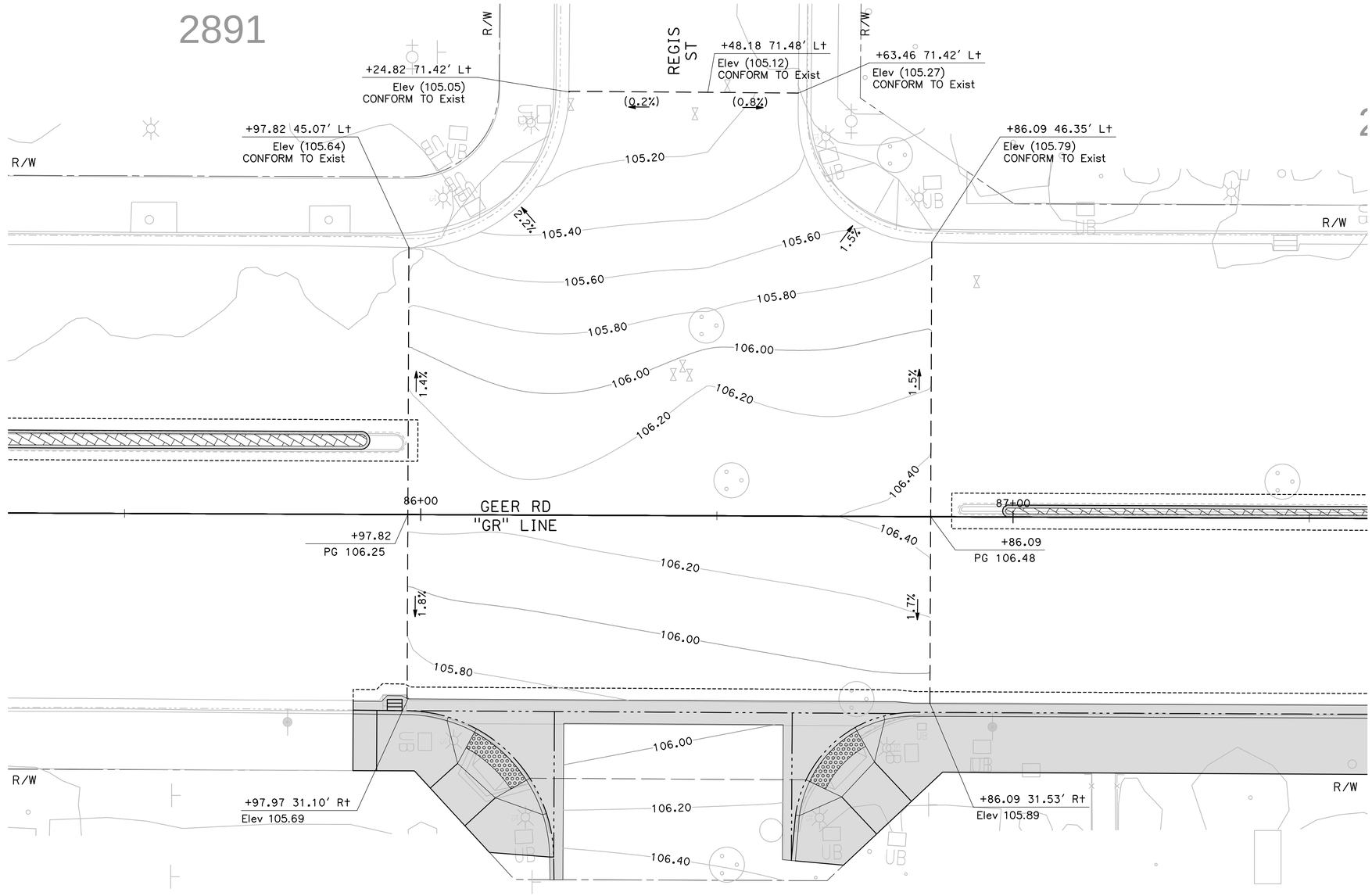
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS



1 / G-11

REGIS ST / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSHUA R. HERRIEGA — No. 84332 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
GRADING PLANS

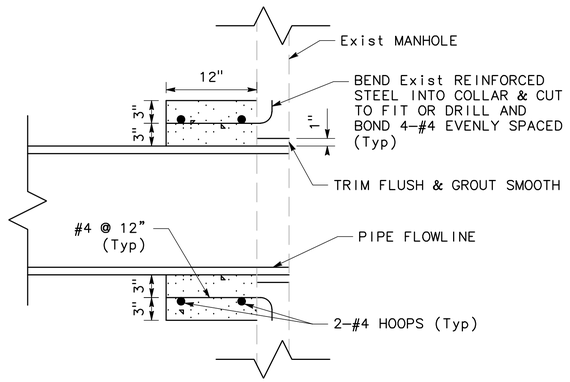
NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
3. ALL STORM DRAIN PIPELINES SHALL BE INSPECTED AND TESTED PER SECTION 16-26 THRU 16-33 OF THE CITY OF TURLOCK STANDARDS.
4. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS, SURFACE FEATURE SURVEYS, AND LIMITED TEST HOLES. HORIZONTAL AND VERTICAL LOCATIONS ARE APPROXIMATE UNLESS EXPLICITLY LABELED "TEST HOLE VERIFIED." CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
5. LATERALS ARE ANTICIPATED TO BE SHALLOWER THAN DISTRIBUTION MAINS ALONG GEER ROAD. DO NOT PERFORM FDR WHERE EXISTING UTILITIES ARE LOCATED WITHIN 12 INCHES OF THE PLANNED DEPTH OF DISTURBANCE OR MAY BE IMPACTED BY FDR OPERATIONS. CONTRACTOR SHALL VERIFY UTILITY DEPTHS PRIOR TO WORK. WHERE CONFLICTS EXIST, OMIT FDR AND CONSTRUCT "SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION" PER THE SPECIFICATIONS AND DETAIL 2 ON THIS SHEET. NOTIFY THE ENGINEER PRIOR TO COMMENCING WORK IN CONFLICT AREAS.
6. IT IS POSSIBLE THAT NOT ALL SERVICE LATERALS WERE SHOWN ON UTILITY MAPPING PROVIDED BY UTILITY OWNERS. CONTRACTOR SHOULD ASSUME ALL PROPERTIES ALONG THE CORRIDOR HAVE ONE GAS AND WATER LATERAL SERVICING PROPERTIES ALONG THE CORRIDOR. CONTRACTOR TO FIELD VERIFY APPROXIMATE LOCATIONS BY LOCATING METER BOXES AND VALVES WHILE DOING PRELIMINARY SITE INVESTIGATIONS AND USA MARKINGS.

LEGEND:

- sd — Exist STORM DRAIN (CITY OF TURLOCK)
- w — Exist WATER (CITY OF TURLOCK)
- s — Exist SEWER (CITY OF TURLOCK)
- gs — Exist GAS (PG&E)
- e (oh) — Exist OVERHEAD ELECTRICAL (TID)
- t (oh) — Exist OVERHEAD TELEPHONE (AT&T)
- fo — Exist FIBER OPTIC (CVIN)
- e — Exist ELECTRICAL (TID)
- E — Exist ELECTRICAL (CITY OF TURLOCK)
- jt (oh) — Exist JOINT OVERHEAD: TELECOM (CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- JT (OH) — Exist JOINT OVERHEAD: TELECOM (AT&T, CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- TC — Exist TELECOM (AT&T)
- tc — Exist TELECOM (CHARTER COMMUNICATIONS)

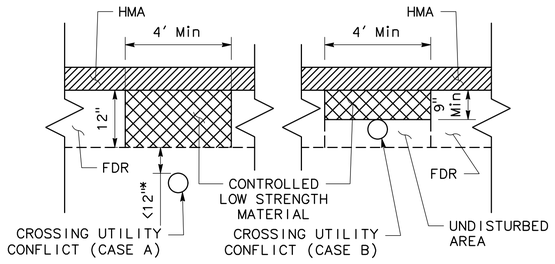
- # — DRAINAGE SYSTEM (SEE DRAINAGE PROFILE SHEETS)
- POTHOLE LOCATION
- # — POTHOLE NUMBER
- SHALLOW UTILITY AREA - SEE SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL



1 DU-1

STORM DRAIN CONNECTION TO EXISTING MANHOLE DETAIL

NO SCALE



*FOR GAS TRANSMISSION LINES, CLSM DETAIL WOULD APPLY WITHIN 15"

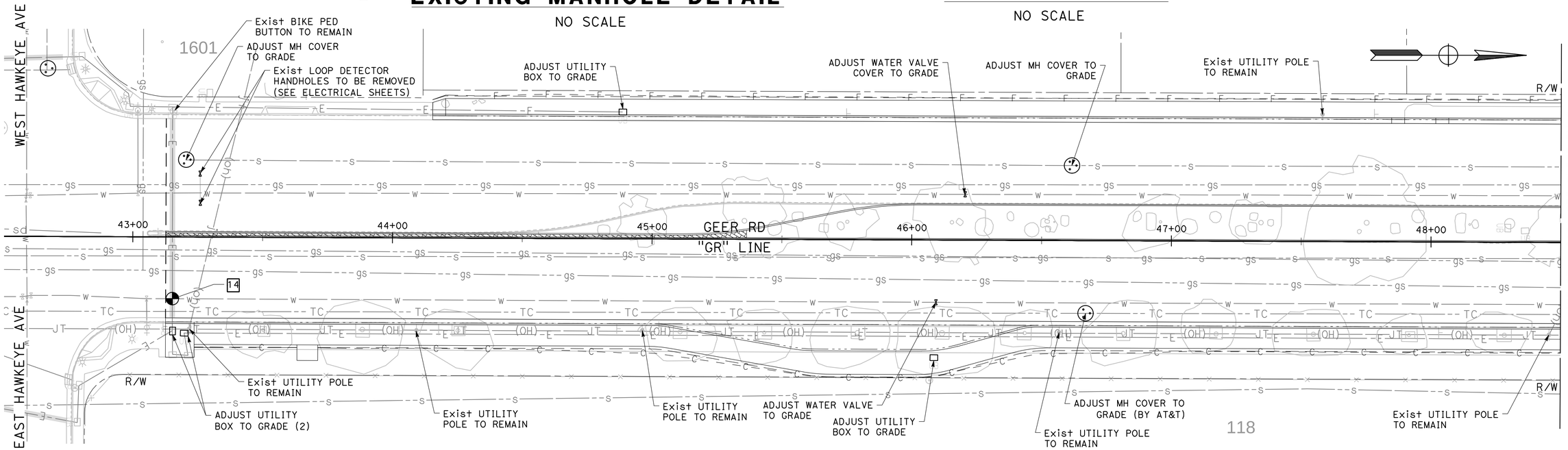
2 DU-1

SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL

NO SCALE

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-14	TS	PL	4.00"	2.30'
TH-14.1	WM	PL	10.00"	5.40'



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSHUA R. HERRIEGA — No. 84338 — CIVIL — STATE OF CALIFORNIA — Exp. 6/30/27

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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DRAINAGE AND UTILITIES

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-15	GM	MET	4.00"	3.20'
TH-16	GS	PL	0.75"	3.60'
TH-16.1	TEL	CONC	-	3.40'
TH-16.2	TEL	PL	4.00"	2.70'
TH-17	GS	PL	1.00"	3.20'
TH-17.1	GM	MET	5.00"	3.50'

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-18	GM	MET	5.00"	2.90'
TH-19	GM	MET	6.00"	3.30'
TH-19.1	WM	AC	10.00"	4.85'
TH-20	GS	MET	1.00"	3.50'
TH-20.1	GM	MET	4.00"	3.75'

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DRAINAGE AND UTILITIES

MATCH LINE STA 60+50 SEE SHEET DU-2

MATCH LINE STA 66+25 SEE BELOW

MATCH LINE STA 66+25 SEE ABOVE

MATCH LINE STA 72+50 SEE SHEET DU-4

GEER RD
"GR" LINE

61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00 71+00 72+00

2000 2100 2130 2160 2340 2395 2400 2405 2480

Exist DI TO REMAIN
ADJUST WATER VALVE TO GRADE (3)

Exist DI TO REMAIN

ADJUST WATER VALVE TO GRADE

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE TO GRADE (2)

ADJUST DI TO GRADE

ADJUST UTILITY BOX TO GRADE

Exist COMMUNICATION RISER TO REMAIN

Exist UTILITY POLE TO REMAIN

Exist FH TO REMAIN

ADJUST UTILITY BOX TO GRADE

Exist UTILITY POLE TO REMAIN

ADJUST DI TO GRADE

Exist UTILITY POLE TO REMAIN (2)

Exist FH TO REMAIN

ADJUST DI TO GRADE

Exist UTILITY POLE TO REMAIN

21

22

23

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-21	GM	MET	4.00"	3.65'
TH-21.1	ELEC	CONC	-	2.50'
TH-22	GM	MET	6.00"	3.00'
TH-22.1	WM	AC	10.00"	2.30'
TH-23	GM	MET	4.00"	3.70'
TH-23.1	ELEC	CONC	-	1.80'

Exist TRAFFIC SIGNAL TO REMAIN (2)

ADJUST UTILITY BOX TO GRADE

ADJUST WATER VALVE TO GRADE (6)

ADJUST UTILITY BOX TO GRADE

ADJUST UTILITY BOX TO GRADE (2)

Exist ELECTRICAL CABINET TO REMAIN

ADJUST UTILITY BOX TO GRADE (2)

Exist ELECTRICAL CABINET TO REMAIN

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE TO GRADE

ADJUST UTILITY BOX TO GRADE (2)

WEST TUOLUMNE RD

Exist TRAFFIC SIGNAL TO REMAIN

Exist TRAFFIC SIGNAL TO REMAIN

ADJUST VAULT TO GRADE (BY AT&T)

ADJUST MH COVER TO GRADE (BY AT&T)

ADJUST MH COVER TO GRADE

Exist UTILITY POLE TO REMAIN

ADJUST UTILITY BOX TO GRADE (2)

EAST TUOLUMNE RD

ADJUST WATER VALVE TO GRADE

ADJUST MH COVER TO GRADE

ADJUST MH COVER TO GRADE

Exist TRAFFIC SIGNAL TO REMAIN

INSTALL CATCH BASIN NO. 3 PER CST DETAIL SD-3

INSTALL 6 LF 18" RCP

ADJUST UTILITY BOX TO GRADE

REMOVE DI

Exist TRAFFIC SIGNAL TO REMAIN (2)

ADJUST UTILITY BOX TO GRADE

Exist UTILITY POLE TO REMAIN

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. KORIEGA No. 84158 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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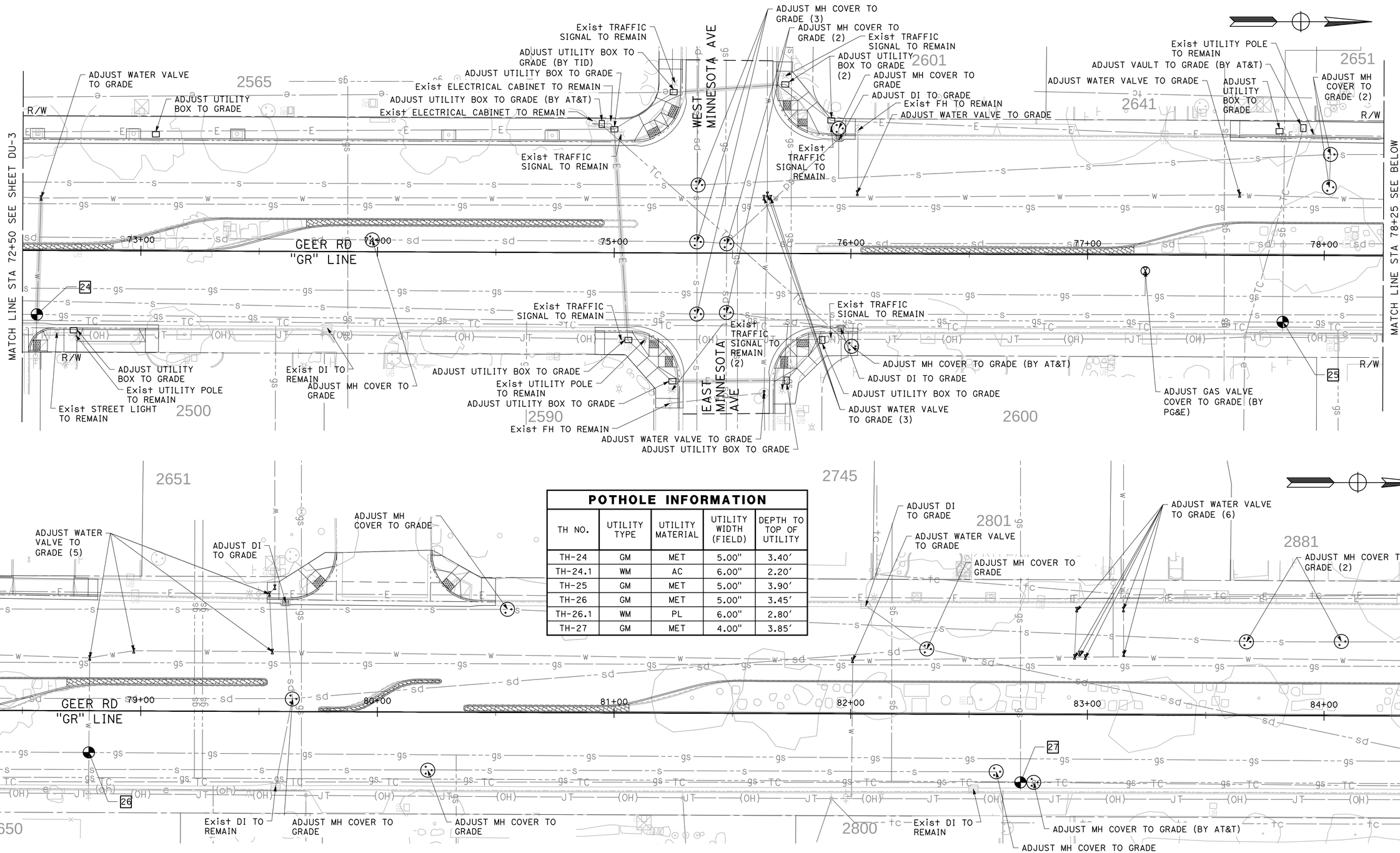
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
DRAINAGE AND UTILITIES

Sheet 133 of 256 Sheets

DU-3



POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-24	GM	MET	5.00"	3.40'
TH-24.1	WM	AC	6.00"	2.20'
TH-25	GM	MET	5.00"	3.90'
TH-26	GM	MET	5.00"	3.45'
TH-26.1	WM	PL	6.00"	2.80'
TH-27	GM	MET	4.00"	3.85'

DESIGNED BY: R. AHMED
DRAWN BY: R. AHMED
CHECKED BY: J. HERNANDEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOAQUIN R. ORTEGA
No. C 15554
6/30/27
CIVIL
STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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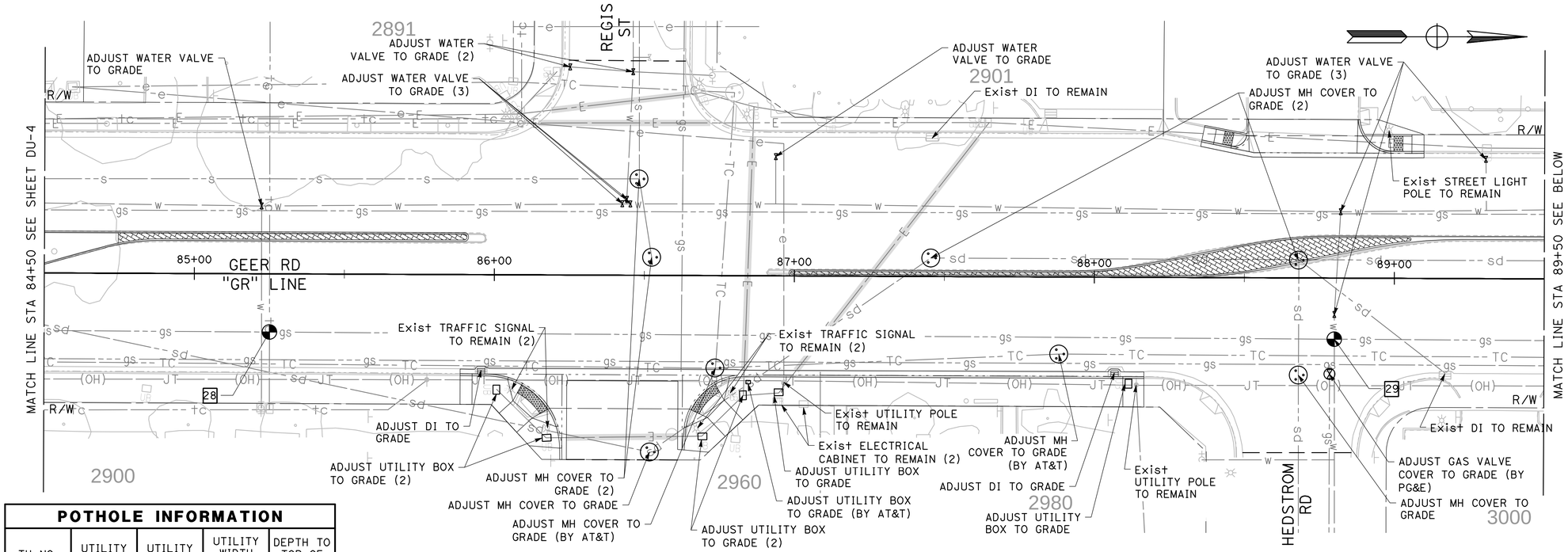
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
DRAINAGE AND UTILITIES

Sheet 134 of 256 Sheets

DU-4

POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-28	GM	MET	6.00"	3.00′
TH-28.1	FO	PL	1.50"	4.60′
TH-28.2	WM	PL	6.00"	4.30′
TH-29	GM	MET	-	3.10′
TH-29.1	WM	AC	6.00"	4.00′



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20′
DATE:	6/08/2026
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
DRAINAGE AND UTILITIES

DU-5

TRAFFIC CONTROL GENERAL NOTES:

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 601-2 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CONTACT THE PUBLIC WORKS TRAFFIC CONTROL SECTION AT (209) 668-5520 TO OBTAIN A PERMIT. THE CONTRACTOR MUST SUBMIT A COMPLETED TRAFFIC CONTROL PERMIT FORM A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN WORK WILL AFFECT A TRAFFIC SIGNAL.

2. STANDARDS: THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO EACH OF THE FOLLOWING MANUALS:

EDITION	DESCRIPTION
2014	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REVISION 9 (CA MUTCD)
2016	CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS
2024	CALTRANS STANDARD PLANS

3. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY RELEVANT AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL.

4. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING SIGNS FORTY-EIGHT (48) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.

6. EXCAVATIONS: EXCEPT AS OTHERWISE SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY, AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED, UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC, WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS OPEN TO THE APPROPRIATE TRAFFIC EXCEPT AS OTHERWISE SHOWN ON THE PLANS.

7. RESTORATION OF TRAFFIC CONTROL DEVICES: THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

8. TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION FOR A PERIOD OF FIVE (5) OR MORE DAYS. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL INSTALLATION AND REMOVALS ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

9. CHANGE IN WORK: THE CITY ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVE THE RIGHT TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT, ANY CHANGES SHALL BE DOCUMENTED AND SUPERCEDE THESE PLANS.

10. OPEN TRENCH: THE CONTRACTOR SHALL PLACE "OPEN TRENCH" SIGNS (C27(CA)) ON TYPE BARRICADES WITHIN THE WORK ZONE, AHEAD OF ANY WORK AREA WHICH INCLUDES OPEN TRENCHES IN EXCESS OF THREE (3) INCHES IN DEPTH, PER CA MUTCD SECTION 6F.103 (CA) GUIDELINES.

11. FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS: THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE CITY RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE WORKING DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE PUBLIC WORKS TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT FOR THIS WORK.

12. CONTRACTOR SHALL INSTALL UNEVEN PAVEMENT SIGNS C46 (CA) ALONG THE EDGE OF AREAS WHERE A STEP OF 1"-2" EXISTS WHETHER PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAVEL.

13. SEE TABLE 6H-3 IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) FOR MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS.

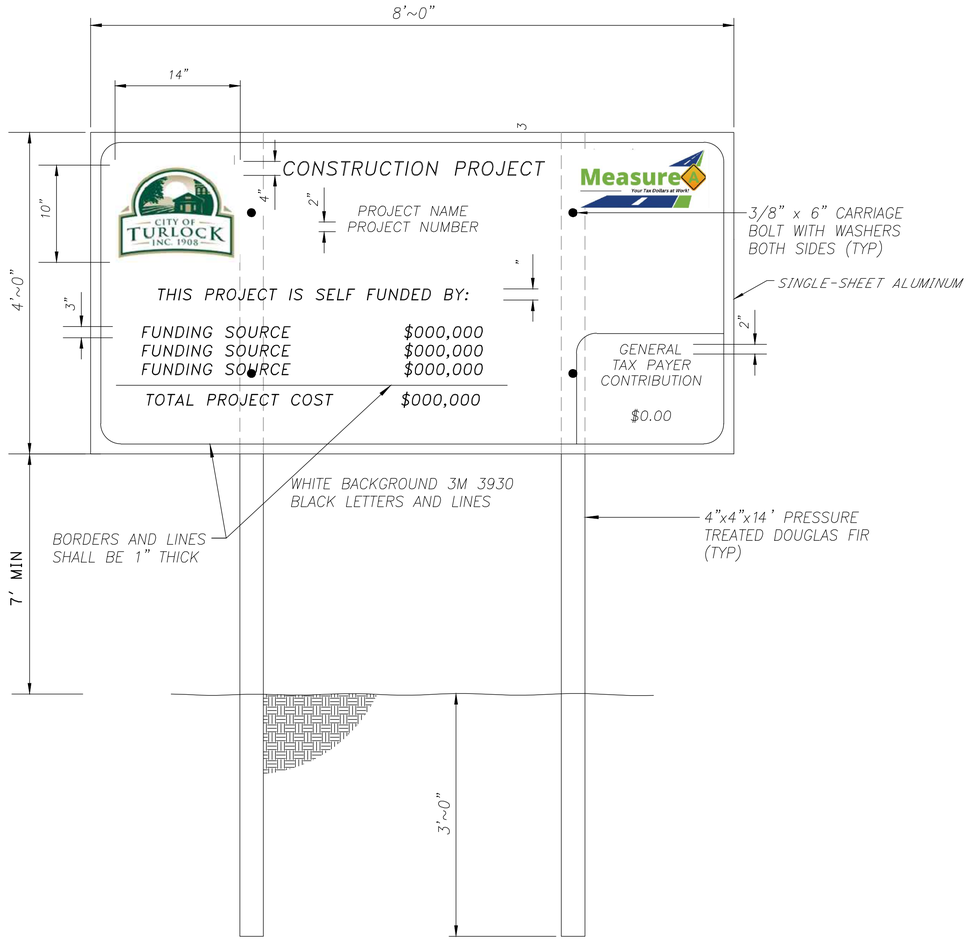
14. CONTRACTOR SHALL DEPLOY EIGHT (8) PORTABLE CHANGEABLE MESSAGE SYSTEMS (PCMS) THROUGHOUT CONSTRUCTION, WITH FINAL PLACEMENT TO BE DETERMINED BY ENGINEER.

15. CONSTRUCTION FUNDING SIGN PLACEMENT TO BE DETERMINED BY THE ENGINEER.

16. STREET CLOSURES AND DETOURS WILL NOT BE NECESSARY FOR THE PLACEMENT OF THE TEMPORARY HMA IN THE 2' SAWCUT AREAS. THE CONTRACTOR SHALL KEEP STREETS OPEN TO TRAFFIC WHILE TEMPORARY HMA IS BEING PLACED.

17. INTERSECTION RECONSTRUCTION SHOULD BE CARRIED OUT IN PHASES SO THAT THE INTERSECTION STAYS OPEN THROUGHOUT THE PAVEMENT CONSTRUCTION PROCESS. TRAFFIC IS TO REMAIN OPEN AT ALL TIMES.

18. AT EACH COMMERCIAL DRIVEWAY WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL FURNISH AND INSTALL, ON A TYPE III BARRICADE, A 4'x4' TEMPORARY SINGLE-SHEET ALUMINUM SIGN STATING "BUSINESS OPEN DURING CONSTRUCTION".



1 / TH-1 **CONSTRUCTION FUNDING SIGN**

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORIEGA — No. 81564 — exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
TRAFFIC HANDLING PLANS

Sheet 136 of 256 Sheets

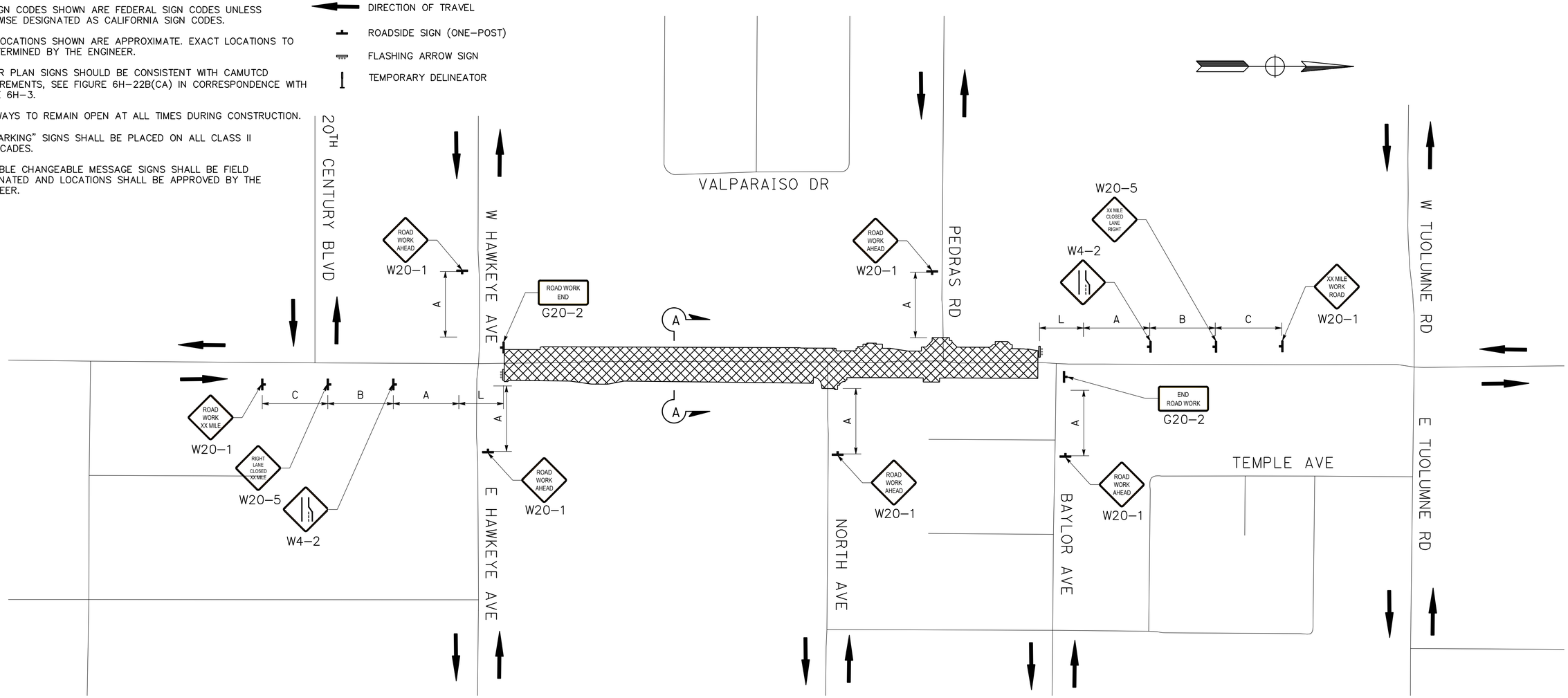
TH-1

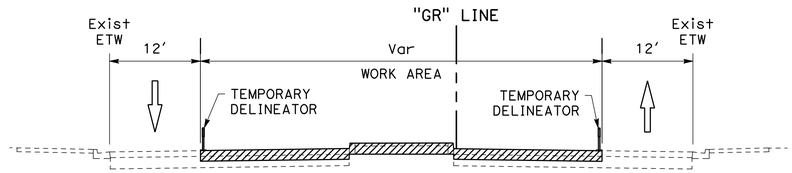
NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. DETOUR PLAN SIGNS SHOULD BE CONSISTENT WITH CAMUTCD REQUIREMENTS, SEE FIGURE 6H–22B(CA) IN CORRESPONDENCE WITH TABLE 6H–3.
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

LEGEND:

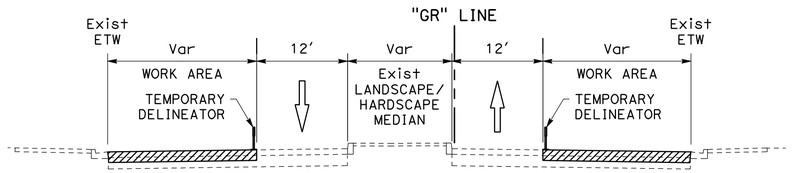
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE–POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 1A: INSIDE LANE CLOSURE

NO SCALE



STAGE 1B: OUTSIDE LANE CLOSURE

NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=150′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
TRAFFIC HANDLING PLANS

Sheet 137 of 256 Sheets

TH-2

NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
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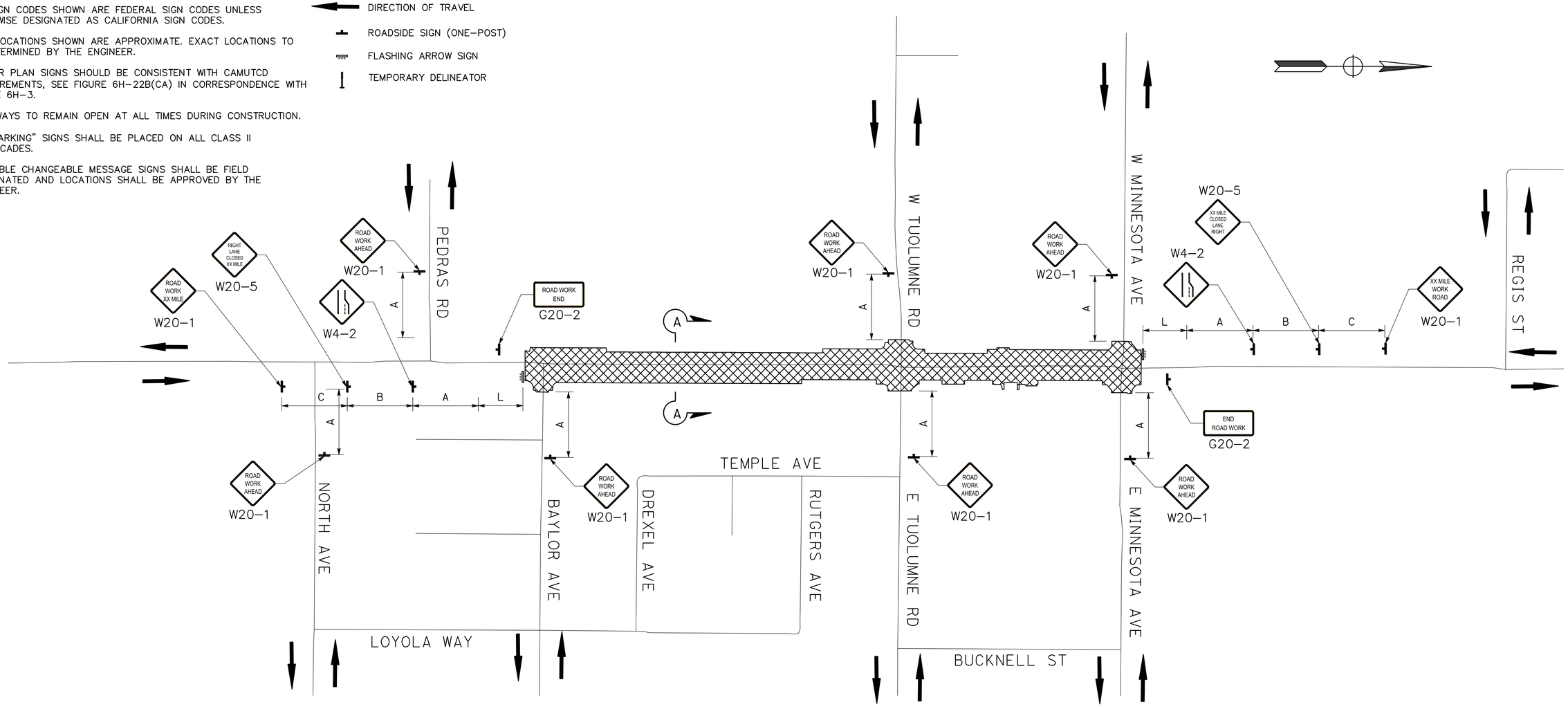
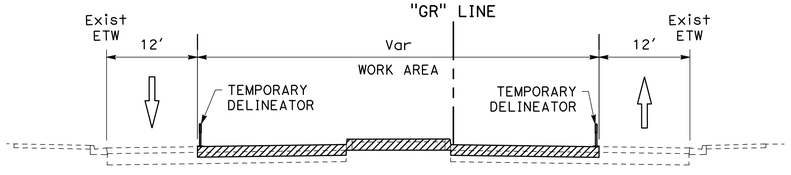
LEGEND:

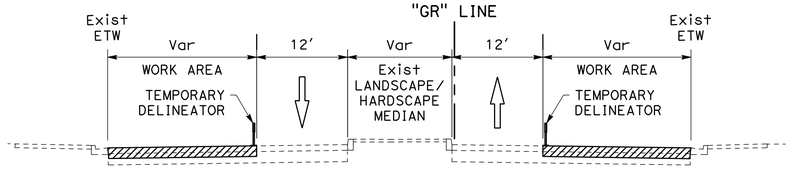
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE–POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 2A: INSIDE LANE CLOSURE

NO SCALE



STAGE 2B: OUTSIDE LANE CLOSURE

NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=150'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — NICHOLAS A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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GEER RD PAVEMENT REHAB PHASE 2
TRAFFIC HANDLING PLANS

Sheet 138 of 256 Sheets

TH-3

NOTES:

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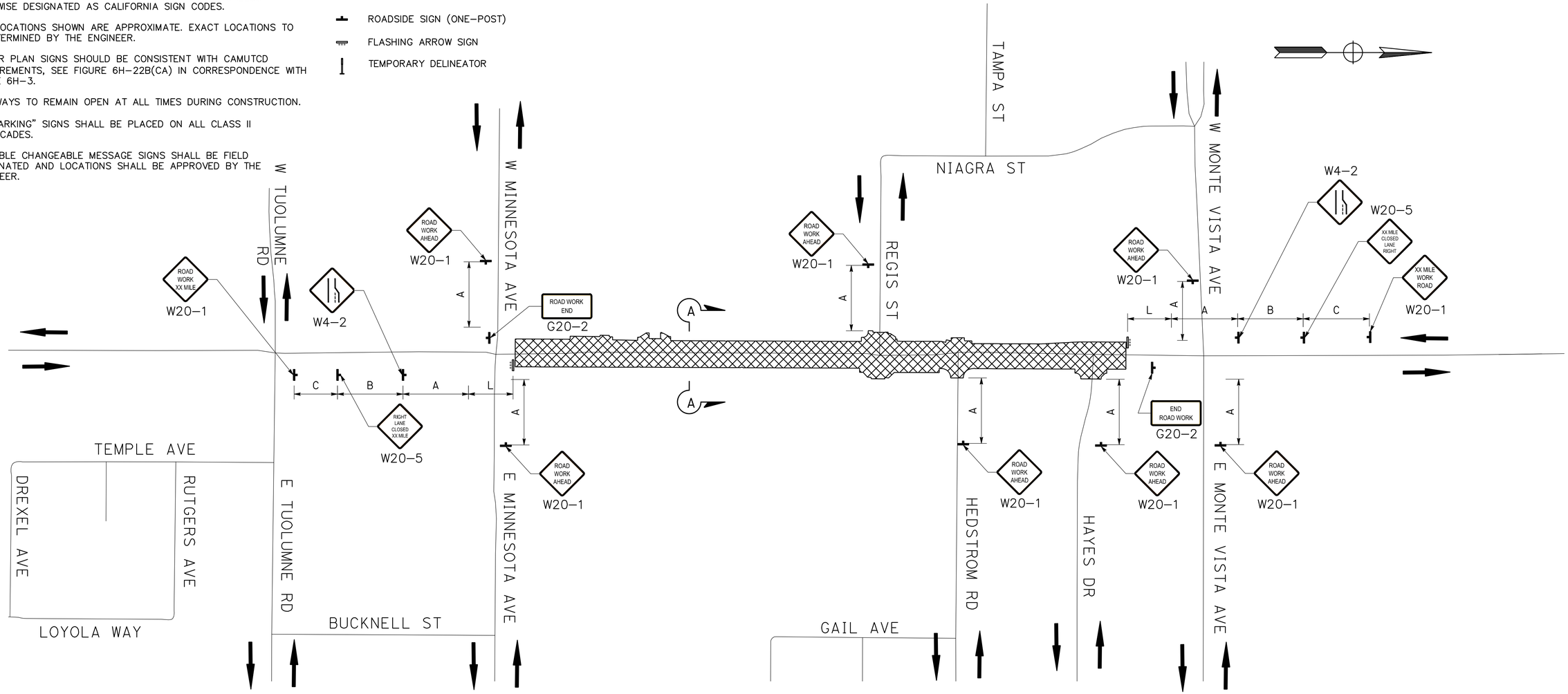
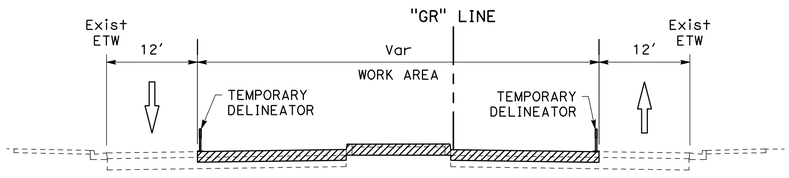
LEGEND:

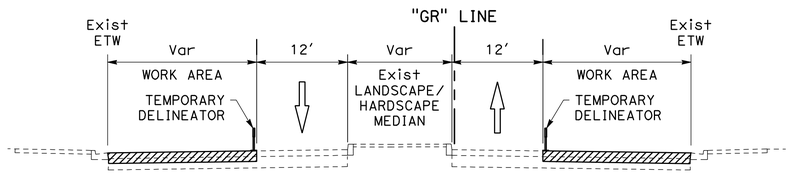
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE–POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 3A: INSIDE LANE CLOSURE

NO SCALE



STAGE 3B: OUTSIDE LANE CLOSURE

NO SCALE

DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=150′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
TRAFFIC HANDLING PLANS

Sheet 139 of 256 Sheets

TH-4

NOTES:

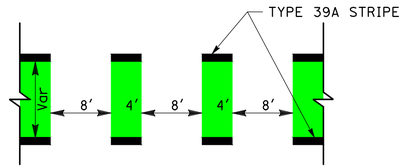
1. ALL TRAFFIC STRIPES & PAVEMENT MARKINGS TO BE THERMOPLASTIC AND PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
2. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
3. EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
4. SIGN NUMBER PER CALIFORNIA MUTCD 2014 EDITION.
5. IN LOCATIONS WHERE CURB AND GUTTER IS RECONSTRUCTED IN FRONT OF A FIRE HYDRANT, CONTRACTOR TO REPLACE BLUE PAVEMENT MARKER (BB) PER CITY OF TURLOCK DETAIL W-3.
6. INSTALL 6" WHITE DIAGONAL STRIPING AT @ 20' SPACING AT BIKE LANE BUFFER LOCATIONS AS SEEN ON PLANS.

ABBREVIATIONS:

SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD

LEGEND:

No. L=XX'	CALTRANS STRIPING DETAIL NUMBER L= LENGTH
⬢	EXISTING ROADSIDE SIGN TO REMAIN
✳	INSTALL ROADSIDE SIGN
▲	RELOCATE EXISTING ROADSIDE SIGN
■	RESET EXISTING ROADSIDE SIGN
♦	REMOVE EXISTING ROADSIDE SIGN
⊥	EXISTING ROADSIDE SIGN LOCATION
-⍟-	ROADSIDE SIGN LOCATION (ONE-POST)
▲▲▲▲	YIELD LINES
	ANGLE POINT
TURLOCK TRANSIT	BUS STOP LOCATION

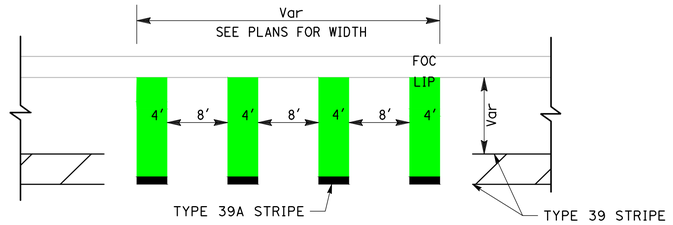


1 GREEN BIKE LANE CONFLICT ZONE

NO SCALE

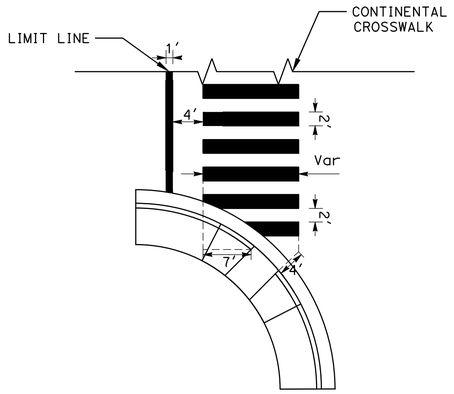
CONSTRUCTION NOTES:

1. INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE & STOP LETTERS
2. INSTALL CONTINENTAL CROSSWALK PER CITY OF TURLOCK STANDARD PLAN C-17(MODIFIED).
3. INSTALL WHITE THERMOPLASTIC YIELD LINE PER MUTCD FIGURE 3B-16
4. INSTALL COLORED BIKE LANE CONFLICT STRIPING PER DETAIL 1, THIS SHEET
5. INSTALL GREEN CONFLICT STRIPING AT BUS STOPS PER DETAIL 2, THIS SHEET
6. INSTALL RED PAINTED CURB



2 GREEN BIKE LANE AT BUS STOPS DETAIL

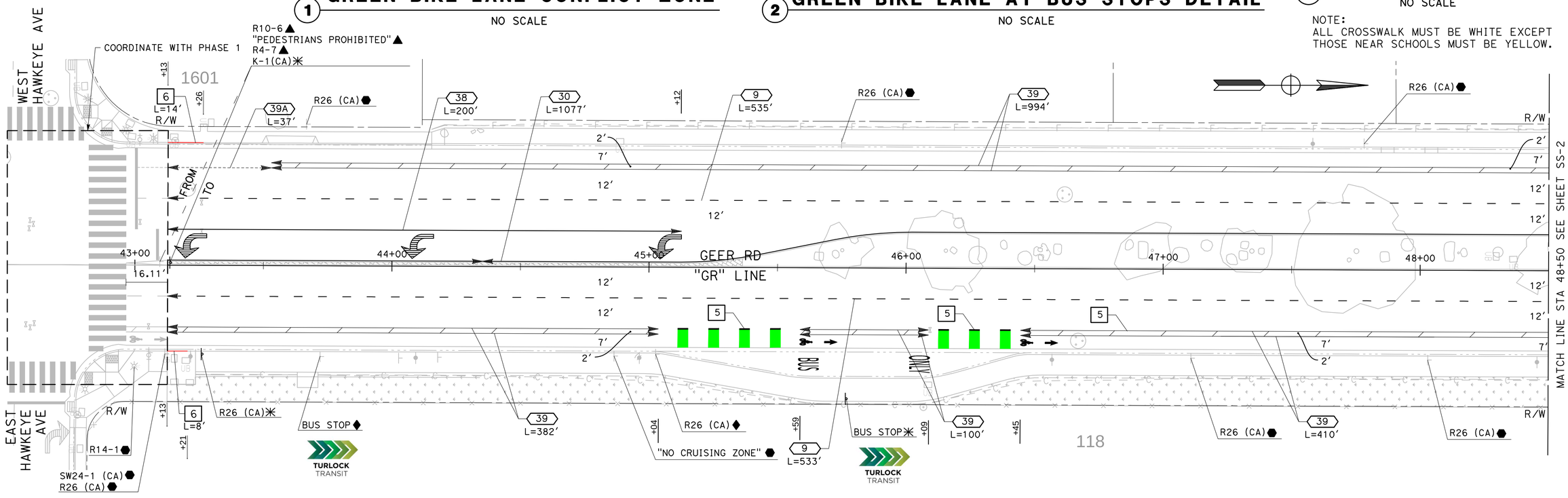
NO SCALE



3 LIMIT LINE/ CROSSWALK DETAIL

NO SCALE

NOTE:
ALL CROSSWALK MUST BE WHITE EXCEPT THOSE NEAR SCHOOLS MUST BE YELLOW.



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ORIEGA — No. C 41555 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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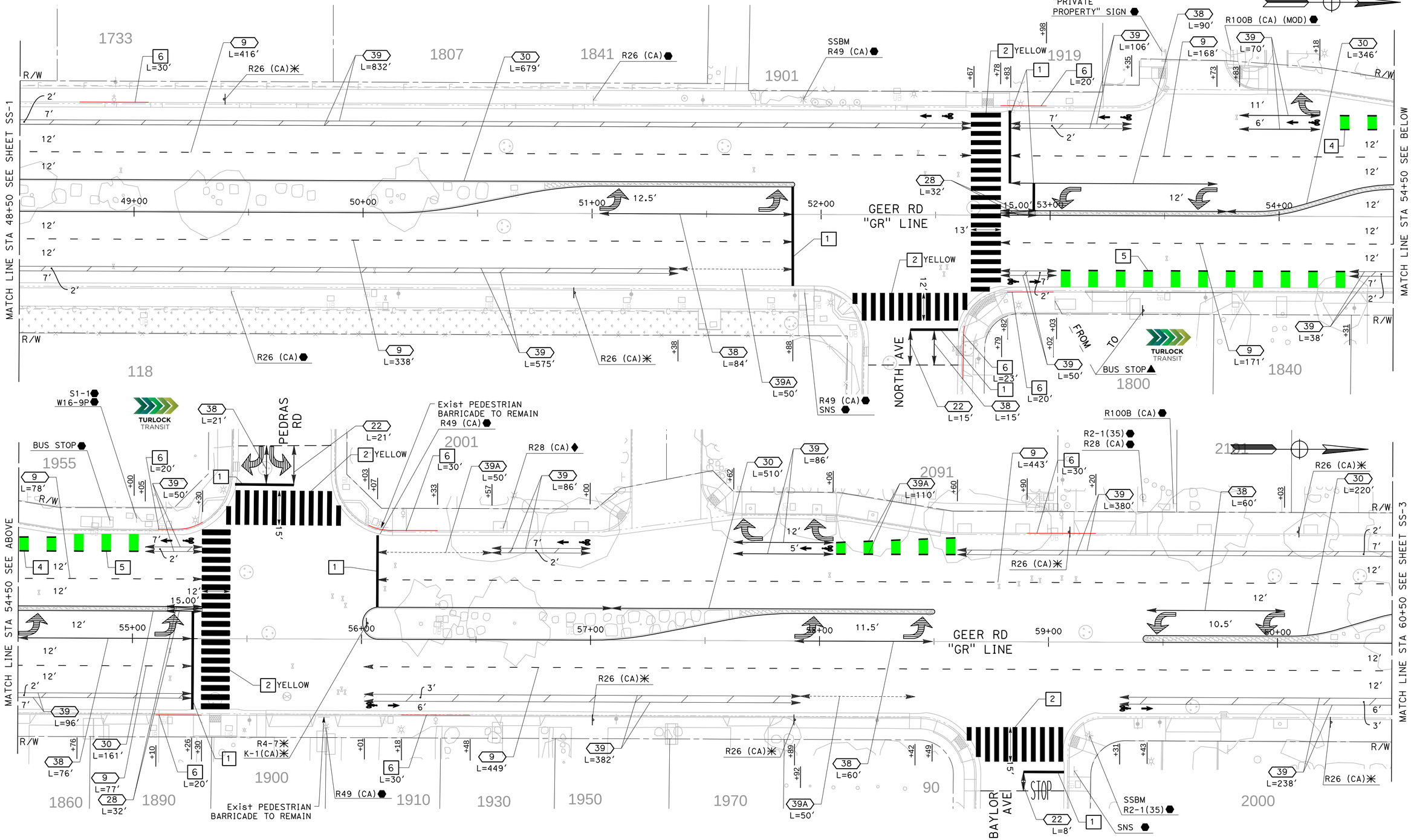
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
SIGNING AND STRIPING

Sheet 140 of 256 Sheets

SS-1



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MARK THOMAS
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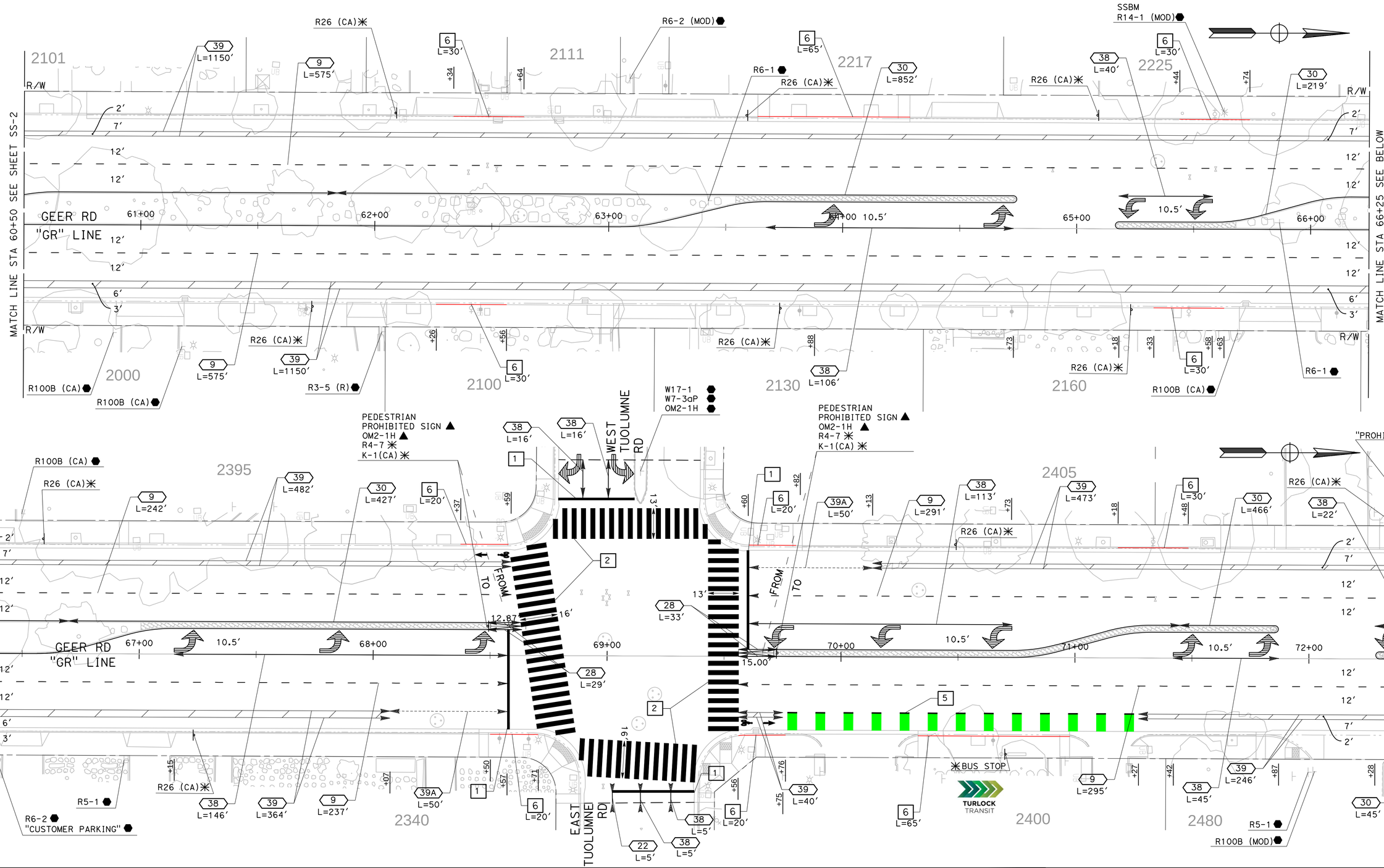
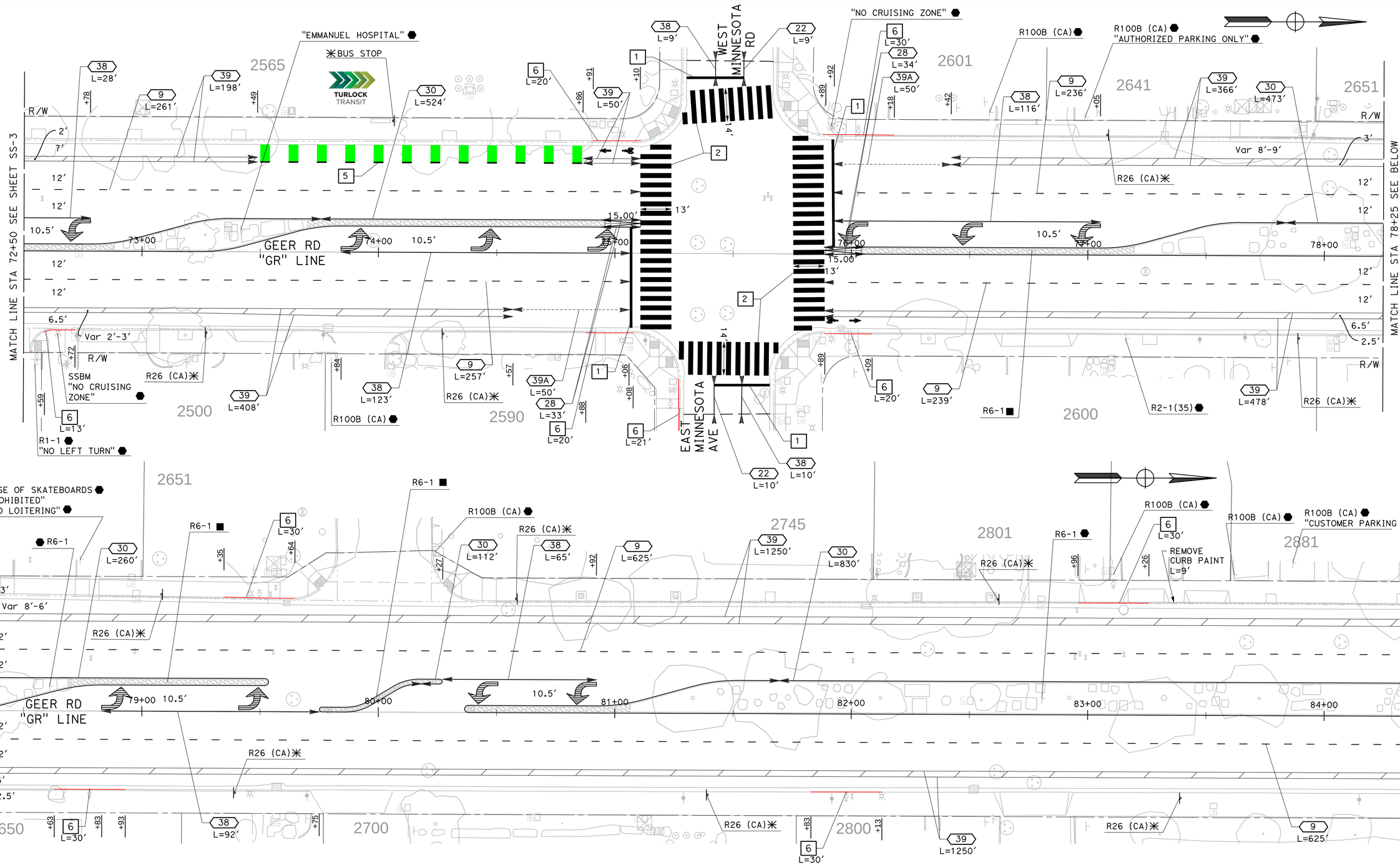
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
SIGNING AND STRIPING

Sheet 141 of 256 Sheets

SS-2



DESIGNED BY: R. AHMED DRAWN BY: R. AHMED CHECKED BY: J. HERNANDEZ SCALE: 1"=20' DATE: 6/08/2026 JOB NO.: 23-00242	NOTE: ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.	USA NORTH 811 Call 811 Before You Dig	SCALE 20 0 20 40	REGISTERED PROFESSIONAL ENGINEER EDWARD A. MORIEGA No. C 41654 Exp. 6/30/2027 CIVIL STATE OF CALIFORNIA	MARK THOMAS 7571 NORTH REMINGTON AVE, STE 102 FRESNO, CALIFORNIA 93711	CITY OF TURLOCK MUNICIPAL SERVICES DEPARTMENT ROADS PROGRAM DIVISION 156 S. BROADWAY AVE SUITE 150 (209) 668-5520	CITY OF TURLOCK GEER RD PAVEMENT REHAB PHASE 2 SIGNING AND STRIPING	Sheet 142 of 256 Sheets SS-3



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. MORIEGA — No. 81456 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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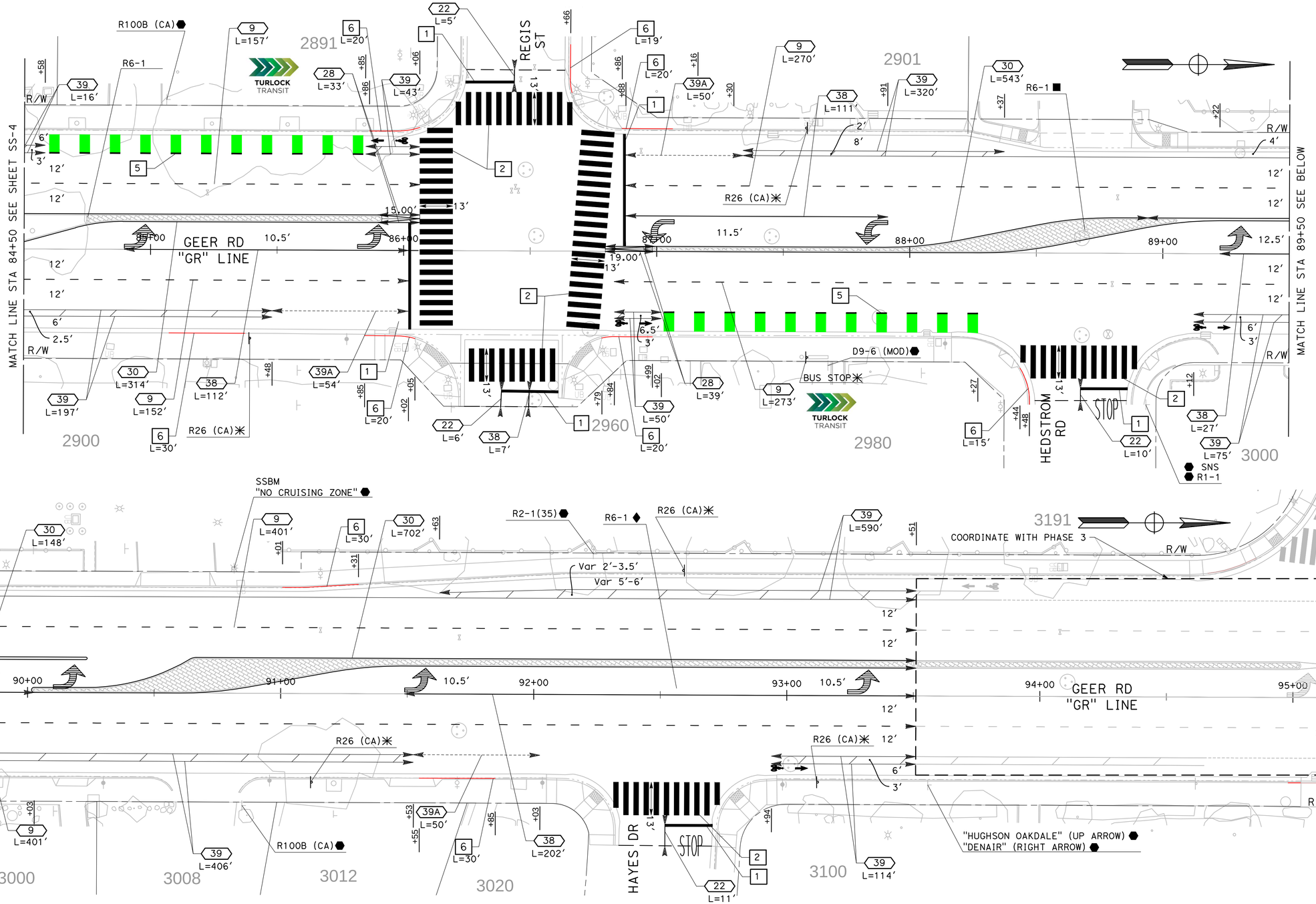
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
SIGNING AND STRIPING

Sheet 143 of 256 Sheets

SS-4



DESIGNED BY:	R. AHMED
DRAWN BY:	R. AHMED
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
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ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

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GEER RD PAVEMENT REHAB PHASE 2
SIGNING AND STRIPING

Sheet 144 of 256 Sheets

SS-5

IRRIGATION NOTES

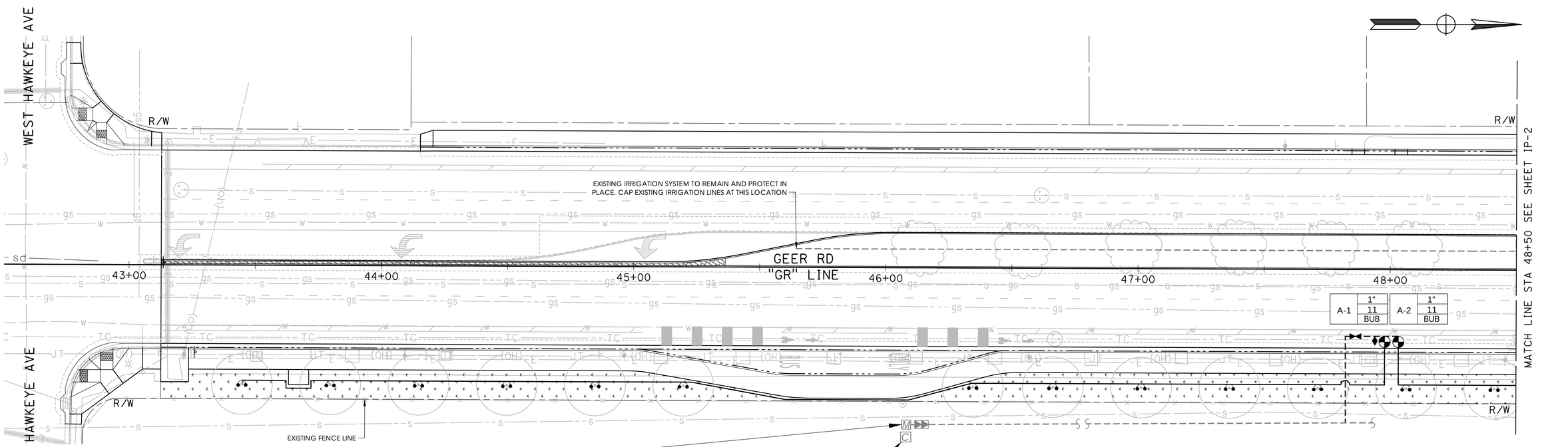
1. THE IRRIGATION SYSTEM IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT TO THE LANDSCAPE ARCHITECT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES, 12" AWAY FROM EDGE OF MEDIAN FOR EASY ACCESS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THEY SHALL COORDINATE THEIR WORK FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE AGENCIES AND U.S.A. TO FIELD LOCATE ALL EXISTING UTILITIES.
4. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL LINES AND VALVES FOR OPTIMUM PERFORMANCE.
5. FIELD ADJUSTMENTS MAY BE REQUIRED TO PROVIDE OPTIMUM OPERATING EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW PROPOSED FIELD ADJUSTMENTS PRIOR TO INSTALLATION. IN THE EVENT THAT NO WRITTEN REQUEST IS RECEIVED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS.
6. SLEEVE ALL PRESSURE MAINLINE PIPE, LATERAL PIPE, AND CONTROL WIRES UNDER STREETS AND CONCRETE WALKWAYS WITH THE PROPER SIZE SCH 80 PVC AND DEPTH AS SPECIFIED.
7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DIAGRAMMATICALLY SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE ENGINEERING. THE CITY ENGINEER SHOULD BE INFORMED IN WRITING OF SUCH OBSTRUCTIONS AND DIFFERENCES, BUT IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
8. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE CONSTRUCTION DETAILS. USE "TEFLON" TAPE ON ALL PVC MALE THREADS OF ALL SPRINKLER SWING JOINTS AND VALVE ASSEMBLIES EXCEPT MARLEX STYLED FITTINGS.
9. CONTRACTOR SHALL VERIFY OPERABILITY OF ALL EXISTING IRRIGATION SYSTEM SHOWN TO REMAIN.
10 FOR ADDITIONAL INFORMATION, SEE PROJECT DETAILS AND SPECIFICATIONS.
11. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEM'S WATERING WILL BE ALLOWED DURING CONSTRUCTION. ALL ADJACENT SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION. IF DISTRIBUTION OF AUTOMATIC IRRIGATION IS INEVITABLE, CONTRACTOR SHALL PROVIDE AND MAINTAIN SUPPLEMENTAL IRRIGATION FOR EXISTING TREES TO REMAIN THROUGHOUT CONSTRUCTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING & ADJUSTING ANY PORTIONS OF THE EXISTING ADJACENT IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION OF THE IMPROVEMENTS IN THIS CONTRACT.

IRRIGATION LEGEND

- C — EXISTING CONTROLLER, THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING OF THE EXISTING IRRIGATION CONTROLLER AND DETERMINE WHETHER SUFFICIENT AVAILABLE STATIONS EXIST TO SERVE THE NEW PLANTING AREAS.
- M — EXISTING WATER METER, CONTRACTOR SHALL VERIFY METER LOCATION AND SIZE IN FIELD.
- EXISTING BACKFLOW PREVENTER ASSEMBLY, CONTRACTOR SHALL VERIFY BACKFLOW PREVENTER LOCATION AND SIZE IN FIELD.
- BALL VALVE ASSEMBLY, KITZ #58-100, 1" SIZE. INSTALL PER DETAIL. (3 ID-1) (6 ID-1)
- REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD PESB, 1" SIZE, OPERATING RANGE OF 0.1-50 GPM. INSTALL WITH PRS-D ADJUSTABLE PRESSURE REGULATOR MODULE. BALL VALVE, KITZ #58-100, 1" SIZE. INSTALL PER DETAIL. (2 ID-1) (6 ID-1)
- QUICK COUPLING VALVE ASSEMBLY, RAINBIRD 33LRC WITH YELLOW LOCKING RUBBER COVER, 3/4" SIZE. INSTALL PER DETAIL. (1 ID-1) (6 ID-1)
- DEEP WATER BUBBLER ASSEMBLY, RAINBIRD RWS-B-1402, 0.5 GPM, TWO PER TREE. OPERATING PRESSURE OF 20PSI. INSTALL WITH FILTER FABRIC SLEEVE, RZWS-SLEEVE, INSTALL PER DETAIL. (7 ID-1)
- W — EXISTING WATER MAINLINE.
- EXISTING IRRIGATION SUPPLY LINE CONNECTION.
- IRRIGATION MAINLINE, SCH 80 PVC, 1-1/2" DIA, INSTALL PER DETAIL.
- EXISTING IRRIGATION MAINLINE.
- LATERAL LINE, SCH 40 PVC, 1" UNLESS SPECIFIED ON PLAN, INSTALL PER DETAIL. (4 ID-1) (5 ID-1)
- SLEEVE, SCH 80 PVC, SIZE PER DETAIL. COVER TO BE AS INDICATED IN SPECS. FOR PIPE DEPTH OF COVER, INSTALL PER DETAIL. CONTRACTOR TO PROVIDE EXTRA SLEEVE ADJACENT TO PROPOSED SLEEVE WHEN NECESSARY. SIZE SLEEVES PER DETAIL.

CONTROLLER VALVE NUMBER
VALVE SIZE
APPROXIMATE GPM THROUGH VALVE
PRECIPITATION RATE

A-1	1-1/2"
	9
	1.2



EXISTING POINT OF CONNECTION (POC)

CONNECT THE NEW IRRIGATION SYSTEM TO THE EXISTING IRRIGATION SYSTEM SERVING CROWELL ELEMENTARY SCHOOL. THE CONTRACTOR SHALL FIELD-VERIFY THE POC LOCATION PRIOR TO INSTALLATION. THE DESIGN STATIC PRESSURE IS 50 PSI. MAXIMUM WATER FLOW IS 11 GPM. VERIFY THE ACTUAL FIELD PRESSURE AND NOTIFY THE ENGINEER OF ANY SUBSTANTIAL VARIANCE, BELOW 45 PSI OR ABOVE 65 PSI. TEST AND CERTIFY THE EXISTING BACKFLOW PREVENTION ASSEMBLY BY A LICENSED BACKFLOW TESTER BEFORE RETURNING IT TO SERVICE.

EXISTING IRRIGATION CONTROLLER AT CROWELL ELEMENTARY SCHOOL

VERIFY THE LOCATION OF THE EXISTING IRRIGATION CONTROLLER IN THE FIELD. IF MODIFICATIONS TO THE EXISTING SYSTEM ARE REQUIRED TO SERVE THE NEW PLANTING AREAS, SUBMIT RECOMMENDATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK. APPROVED MODIFICATIONS WILL BE COMPENSATED UNDER A SEPARATE ALLOWANCE ITEM.

DESIGNED BY:	ZS/JG
DRAWN BY:	ZS
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	12/11/2025
JOB NO.:	24-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

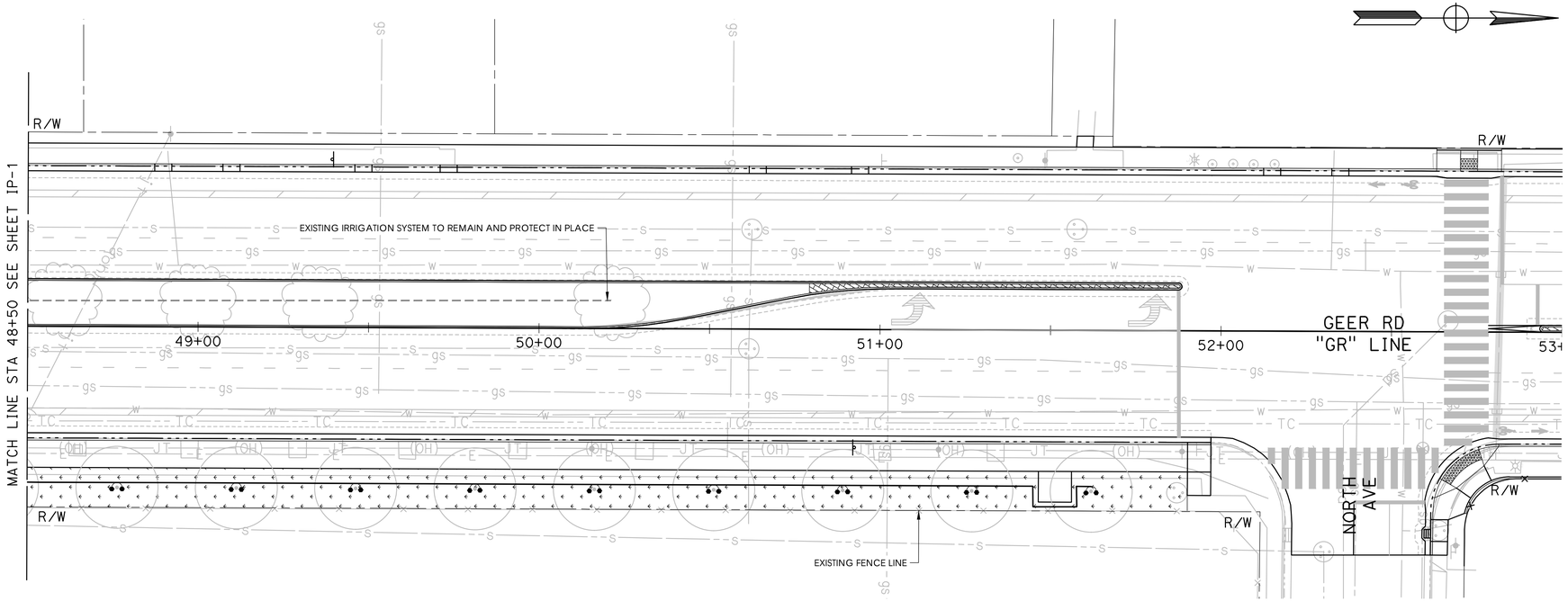
LICENSED LANDSCAPE ARCHITECT — WEIWEN GUO LI — Signature — 08-30-2027 Renewal Date — Date — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
IRRIGATION PLANS



DESIGNED BY:	ZS/JG
DRAWN BY:	ZS
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	12/11/2025
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
JINGWEN GUO LI 6363
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

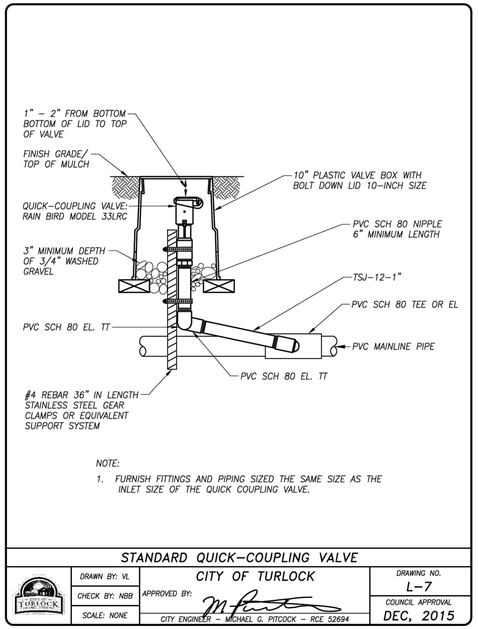
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
IRRIGATION PLANS

IP - 2

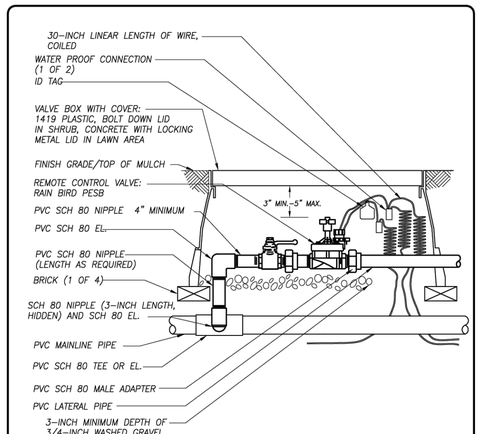


NOTE:

1. FURNISH FITTINGS AND PIPING SIZED THE SAME SIZE AS THE INLET SIZE OF THE QUICK COUPLING VALVE.

STANDARD QUICK–COUPLING VALVE			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–7
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

1 ID-1 QUICK COUPLING VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.

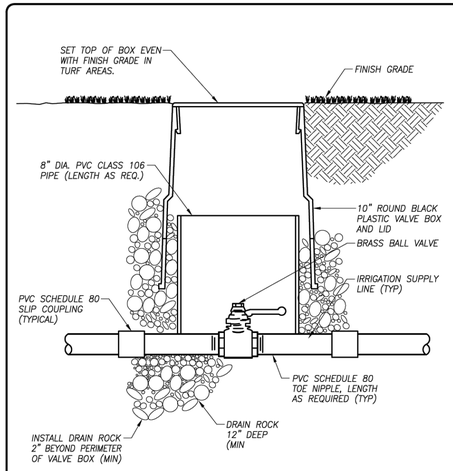


NOTE: USE 1419 CONCRETE VALVE BOX WITH BOLT DOWN LIDS IF INSTALLED IN SIDEWALK AREA. SET FLUSH TO GRADE.

HARD GLUE ALL FITTINGS FROM POINT OF CONTACT TO BRASS BALL VALVE.

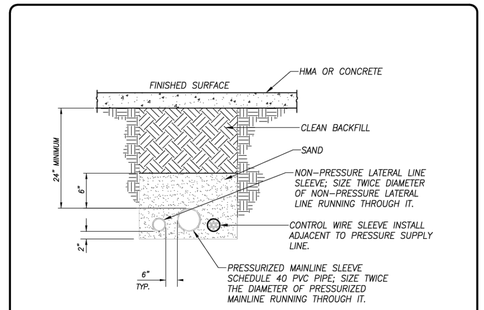
REMOTE CONTROL VALVE			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–6
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

2 ID-1 REMOTE CONTROL VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.



STANDARD BALL VALVE INSTALLATION			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–5
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

3 ID-1 BALL VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.

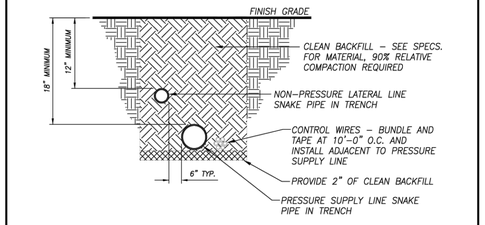


NOTES:

1. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS
2. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER JET COMPACTION.
3. SCHEDULE 40 PVC PIPE MUST BE USED AS SLEEVE UNDER ALL PAVING, WITH A 4" SCREENED SAND COVER.
4. ALL IRRIGATION WIRE MUST HAVE A SEPARATE SLEEVE MEETING THE SAME STATED INSTALLATION CONDITIONS.

SLEEVING DETAIL			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–11
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

4 ID-1 SLEEVING
CITY OF TURLOCK STANDARD N.T.S.

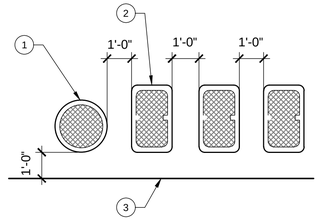


NOTES:

1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION.
2. INSTALL MAIN LINE ACCORDING TO MANUFACTURER'S SPECIFICATIONS. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER COMPACTION.

TRENCHING DETAIL			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–12
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

5 ID-1 TRENCHING
CITY OF TURLOCK STANDARD N.T.S.



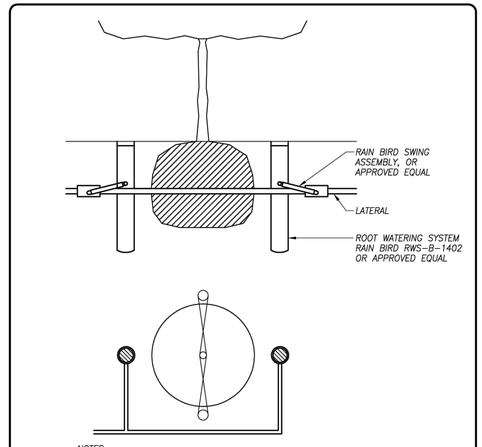
KEY:

1. CIRCULAR VALVE BOX.
2. JUMBO RECTANGULAR VALVE BOX.
3. EDGE OF PLANTER.

NOTES:

1. CENTER VALVE BOX OVER VALVE.
2. PLACE REMOTE CONTROL VALVE ASSEMBLY SHRUB/GROUNDCOVER AREA WHENEVER POSSIBLE.
3. SET VALVE BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF PLANTER. SET ALL GROUPINGS OF VALVE BOXES LEVEL WITH EACH OTHER OR AT THE SAME HEIGHT ABOVE GRADE.

6 ID-1 VALVE BOX LAYOUT
CITY OF TURLOCK STANDARD N.T.S.



NOTES:

1. INSTALL TWO ROOT WATERING SYSTEMS PER TREE
2. ROOT WATERING SYSTEM SHALL BE EVENLY SPACED ADJACENT TO THE ROOT ZONE AND WITHIN THE TREE CANOPY
3. FILL ROOT WATERING SYSTEM WITH PEA GRAVEL
4. PLACE SOIL SOCK ON OUTSIDE OF THE ROOT WATERING SYTEM

DEEP ROOT TREE BUBBLER			
DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L–4
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

7 ID-1 DEEP WATER BUBBLER ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.

DESIGNED BY:	ZS/JG
DRAWN BY:	ZS
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	12/11/2025
JOB NO.:	24-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE

LICENSED LANDSCAPE ARCHITECT – LOREN GUO – 6178 – Signature – 09–30–2027 Renewal Date – Date – STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 2
IRRIGATION DETAILS

Sheet 147 of 162 Sheets

ID-1

PLANTING LEGEND

LABEL	SCIENTIFIC NAME	COMMON NAME	WATER USAGE (WUCOLS)	SIZE	SPACING
TREES					
PIS CHI	*PISTACIA CHINENSIS 'KEITH DAVEY'*	KEITH DAVEY CHINESE PISTACHE	L	36" BOX	AS SHOWN

EXISTING TREES TO REMAIN

OTHER

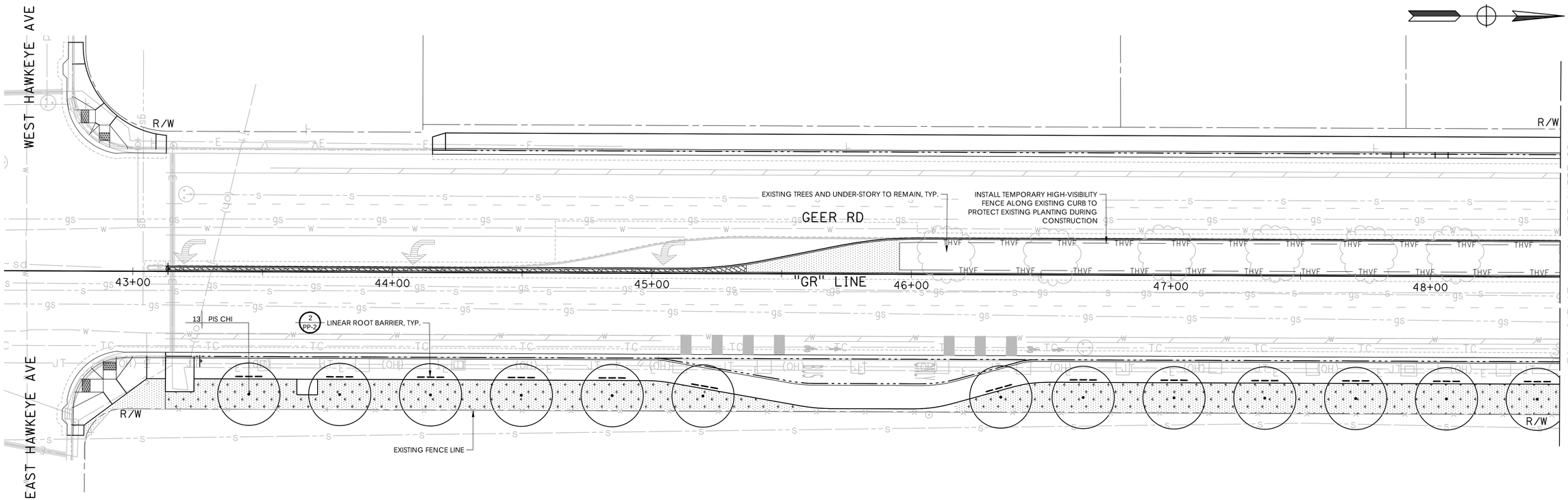
DARK BROWN RUBBER BARK MULCH, 3" THICK MATERIAL TO MATCH THE LANDER AVENUE PROJECT. CONTACT THE CITY FOR PRODUCT INFORMATION.

LINEAR ROOT BARRIER. INSTALL PER DETAIL.

THVF — TEMPORARY HIGH-VISIBILITY FENCE

PLANTING NOTES

1. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIALS AS INDICATED ON THE PLAN. AVOID OR MINIMIZE SOIL DISTURBANCE WITHIN OR NEAR EXISTING TREES TO REMAIN. INSTALL TEMPORARY HIGH-VISIBILITY FENCE DURING CONSTRUCTION. CONTRACTOR TO REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
2. SOIL LAB TEST: THE CONTRACTOR SHALL COLLECT A MINIMUM OF 1 QUART OF EXISTING ONSITE SOIL FROM THE PLANTING AREAS AND SUBMIT THE SAMPLE TO SUNLAND ANALYTICAL LABORATORY, (916) 852-8557, OR SIMILAR LAB, FOR AGRONOMIC ANALYSIS. TEST RESULTS SHALL INCLUDE ORGANIC MATTER CONTENT, SOIL TEXTURE, PH, SALINITY/EC, SODIUM ADSORPTION RATIO, AVAILABLE NUTRIENTS, AND AMENDMENT/FERTILIZER RECOMMENDATIONS.
3. SOIL AMENDMENTS: SHALL BE INSTALLED IN ACCORDANCE WITH LABORATORY RECOMMENDATIONS. FOR BIDDING PURPOSES, ASSUME INCORPORATION OF COMPOST AT A MINIMUM RATE OF 4 CUBIC YARDS PER 1,000 SQUARE FEET UNIFORMLY INTO THE TOP 6 INCHES OF SOIL, UNLESS SOIL TESTING DEMONSTRATES THAT THE EXISTING ORGANIC MATTER CONTENT IN THE TO 6 INCHES EXCEEDS 6 PERCENT. REMOVE ROCKS LARGER THAN 2 INCHES AND DEBRIS PRIOR TO INSTALLATION.
4. FERTILIZER: SHALL BE PROVIDED PER LABORATORY RECOMMENDATIONS. FOR BIDDING PURPOSES ONLY, FERTILIZER SHALL BE ASSUMED AS A SLOW-RELEASE GRANULAR PRODUCT (E.G., 16-16-16 OR SIMILAR) APPLIED AT APPROXIMATELY 5 POUNDS PER 1,000 SQUARE FEET, UNLESS MODIFIED BY LABORATORY RECOMMENDATIONS.
5. TREES: INSTALL WITH LINEAR ROOT BARRIER ALONG THE BACK OF SIDEWALK, SEE DETAILS.
6. MAINTENANCE AND ESTABLISHMENT PERIOD: CONTRACTOR SHALL PROVIDE A 365-CALENDAR DAY MAINTENANCE AND ESTABLISHMENT PERIOD, SEE SPECS.



DESIGNED BY:	ZS/JG
DRAWN BY:	ZS
CHECKED BY:	JG
SCALE:	1"=20'
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

LICENSED LANDSCAPE ARCHITECT JORGE A. GUO LEE Signature 08-30-2027 Renewal Date Date STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

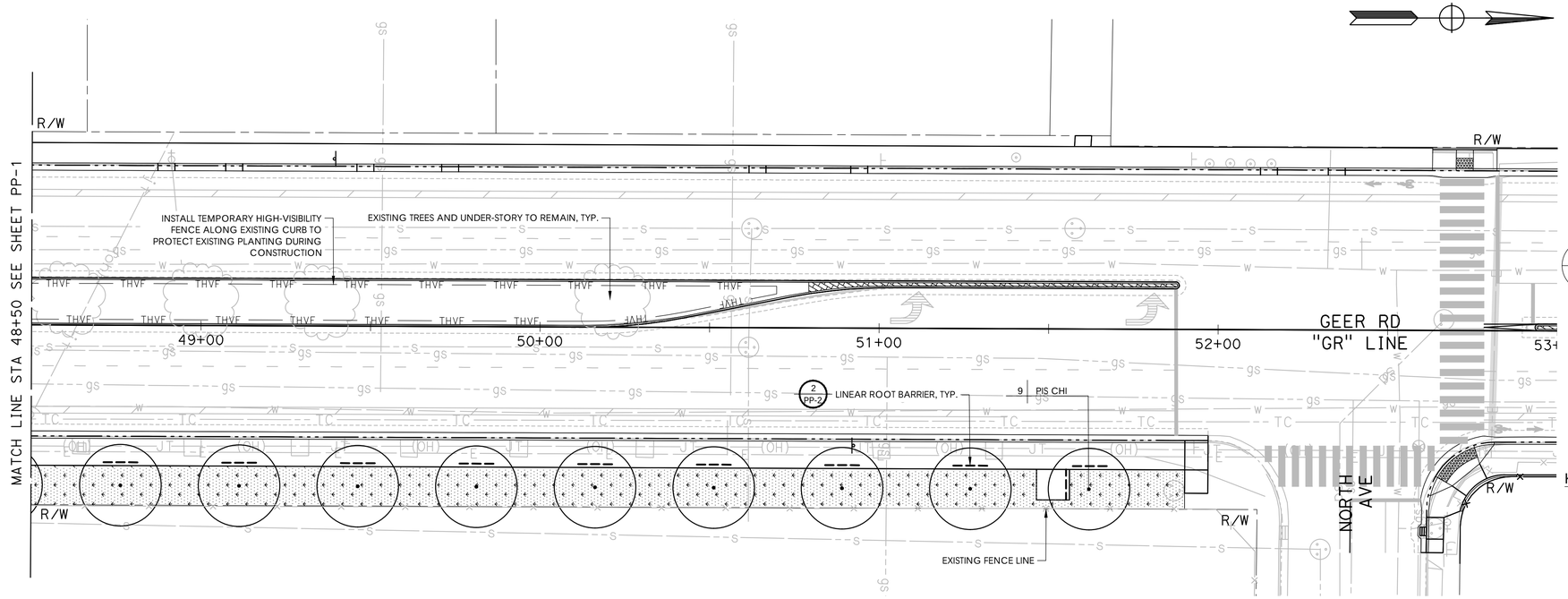
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

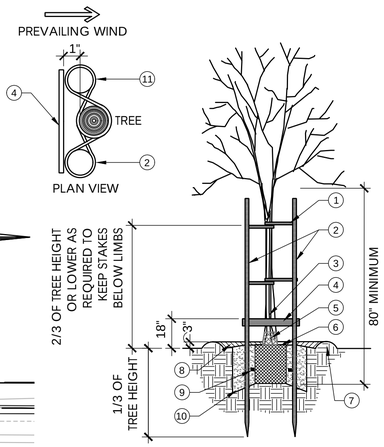
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
PLANTING PLANS

Sheet 148 of 162 Sheets

PP-1





KEY:

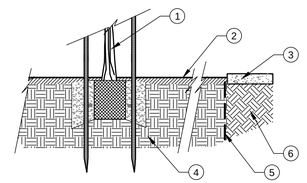
1. TREE TIES AT TWO LOCATIONS, REFER TO SPECIFICATIONS FOR TYPE, (THREE MINUMUM) TYP. PROVIDE 5" - 6" OF SLACK IN TIES TO ALLOW FOR TREE MOVEMENT IN THE WIND.
2. TWO 2" X 2" X 8' REDWOOD OR PRESSURE-TREATED LODGEPOLE TREE STAKES (SET PLUMB) DO NOT PENETRATE ROOTBALL.
3. TREE TRUNK, CALIPER SIZE MINIMUM 3/4"-7/8" MEASURED 12" ABOVE PLANTING DEPTH.
4. 1" X 4" REDWOOD BRACE NAILED TO STAKES WITH GALVANIZED NAILS. 18" ABOVE FINISHED GRADE.
5. TREE GUARD
6. ROOT BALL, SET CROWN 2" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
7. WATER RETENTION BERM (EXCEPT IN TURF AREAS)
8. BARK MULCH. REFER TO SPECIFICATIONS.
9. (TWO) AGRIFORM FERTILIZER PELLETS, REFER TO SPECIFICATION TYPE.
10. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOT BALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
11. SECURE TREE TIE WITH GALV. FENCE STAPLE

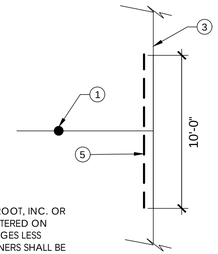
NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

1 PP-2 TREE PLANTING

N.T.S.





KEY:

1. TREE PLANTING.
2. BARK MULCH, REFER TO SPECIFICATIONS.
3. ADJACENT CURB OR PAVEMENT, SEE PLAN.
4. NATIVE OR IMPORT SOIL.
5. LINEAR ROOT BARRIER, BY DEEPROOT, INC. OR APPROVED EQUAL. INSTALL CENTERED ON TREE, PARALLEL TO ALL HARD EDGES LESS THAN 5'-0" FROM TREE. ALL CORNERS SHALL BE 90 DEGREES. CONNECT ALL CORNERS WITH MANUFACTURER'S COUPLINGS. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALIGN TOP OF ROOT BARRIER PANELS FLUSH WITH FINISHED GRADE IN PLANTER.
6. COMPACTED SUBGRADE, SEE PLANS AND SPECS.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

2 PP-2 LINEAR ROOT BARRIER

N.T.S.

DESIGNED BY:	ZS/JG
DRAWN BY:	ZS
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	12/11/2025
JOB NO.:	24-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT JINGWEN GUO LI 6543 Signature 09-30-2027 Renewal Date Date STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

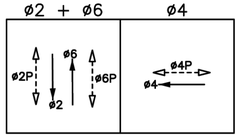
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 2
PLANTING PLANS

Sheet 149 of 162 Sheets

PP-2

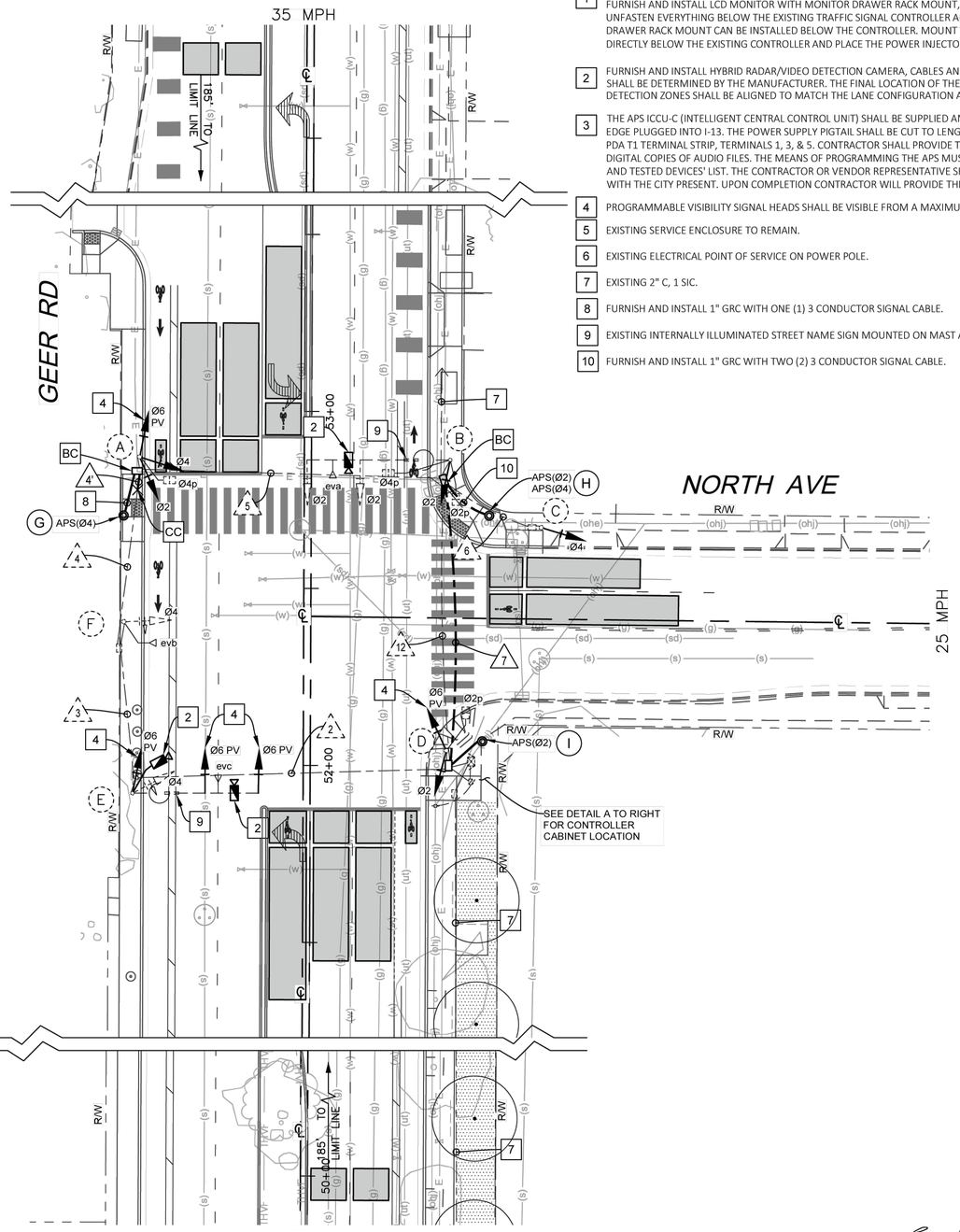
EXISTING STEADY DEMAND SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2
evb = ø4
evc = ø6

POLE PLACEMENT LOCATION		
POLE	LOCATION	
G	GEER ROAD	STA 52 + 70.38, 53.00' L
H	GEER ROAD	STA 52 + 70.74, 50.33' R
I	GEER ROAD	STA 52 + 6.99, 48.61' R

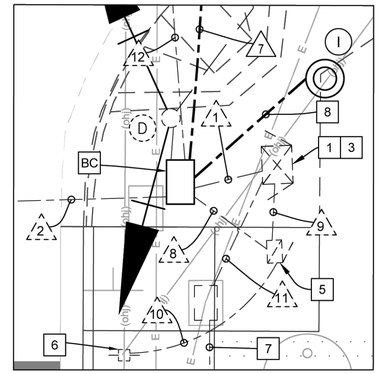


CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN EVERYTHING BELOW THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE DOWN BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER. THE VIDEO DETECTION ZONES SHALL BE ALIGNED TO MATCH THE LANE CONFIGURATION AS DIRECTED BY THE RESIDENT ENGINEER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT.
4. PROGRAMMABLE VISIBILITY SIGNAL HEADS SHALL BE VISIBLE FROM A MAXIMUM OF 225' FROM THE PROPOSED SOUTHBOUND LIMIT LINE
5. EXISTING SERVICE ENCLOSURE TO REMAIN.
6. EXISTING ELECTRICAL POINT OF SERVICE ON POWER POLE.
7. EXISTING 2" C, 1 SIC.
8. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.
9. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.
10. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- ℄ CENTER LINE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- PV PROGRAMMABLE VISIBILITY
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- R/W EXISTING RIGHT OF WAY
- EXISTING No. 5 PULL BOX UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED



CONTROLLER LOCATION – DETAIL A
NO SCALE

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOSE LUIS BENAVIDES
No.C 62971 Exp:06/30/26
CIVIL
STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET GEER RD & NORTH AVE

Sheet 150 of 256 Sheets

E-1

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-4. Geer Road at North Avenue Traffic Signal.dwg

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE												
			1	2	3	4	4'	5	6	7	8	9**	10**	11	12
			3/4"	2"	2"	2"	2"	2"	2"	3"	1 1/2"	2"	2"	2"	2"
CONDUIT FILL			32%	36%	14%	1%	1%	15%	12%	20%	10%	7%	13%	4%	13%
12 COND. CABLE (VEH.) (PED.) *	A	2,4,6, 4P	1 -					1 -		1 -					
	B	2,2P, 4P	1 -							1 -					
	C	4 -	1 -						1 -	1 -					
	D	2,6,2P -	1 -												
	E	4,6 -	1 -	1 -											
	F	4 -	1 -	1 -	1 -										
	G	- 4P	- 1					- 1		- 1					
3 COND. CABLE (APS) *	H	- 2P,4P	- 2							- 2					
	I	- 2P	- 1												
TOTAL			6 4	2 -	1 -			1 1	1 -	3 3					
# 2	SERVICE												(3)		
# 4	SIGNAL POWER											(2)			
# 8	SAFETY LIGHTS			2							2				2
# 10	IISNS			2							2				2
# 10	BONDING WIRE	1	1	1	1	1	1	1		1	1			1	1
4 - # 14	INTERCONNECT	(1)												(1)	(1)
CAT 5E	VIDEO DETECTION	3	2												1
EVP CABLE 3 COND.	EVA (N/B)	1													1
	EVB (W/B)	1	1	1											
	EVC (S/B)	1	1												

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD Type	Sig. M.A.	Lum.M.A.	VEH SIG MTG Mast Arm	Pole	PED SIGNAL Ø	MTG	APS Ø	ARROW	LED LUMINAIRE WATTAGE	POLE No.	EV PREEMPT	SPECIAL REQUIREMENTS
A	1–A (10')	–	–	–	TV–3–T (N)	4	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-3-T VEHICLE HEAD MOUNTING HARDWARE.
B	26–4–70	40'	12'	MAT MAT	SV–1–T (N)	4 2	SP–2–T	–	–	151 W	897	EVA	EXISTING IISNS "NORTH AVE." ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLIES. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
C	1–A (10')	–	–	–	TV–1–T (N)	–	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-1-T VEHICLE HEAD MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T (N)	–	–	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
E	26–4–70	35'	12'	MAS MAS	SV–2–T	–	–	–	–	151W	1634	EVC	EXISTING IISNS "NORTH AVE." ON SMA TO REMAIN. EXISTING R49(CA) SIGN ON SIGNAL STANDARD TO REMAIN. MODIFY EXISTING SV-2-T VEHICLE HEAD BRACKETS AS NEEDED TO INSTALL 12" 3-SECTION HEAD(S) IN PLACE OF THE EXISTING 8" 3-SECTION HEAD(S).
F	1–A (10')	–	–	–	TV–1–T	–	–	–	–	–	–	EVB	
G	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	4 (N)	LEFT (N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
H	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N) 4 (N)	RIGHT (N) LEFT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
I	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N)	LEFT (N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA INAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
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EMAIL: info@JLBtraffic.com

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

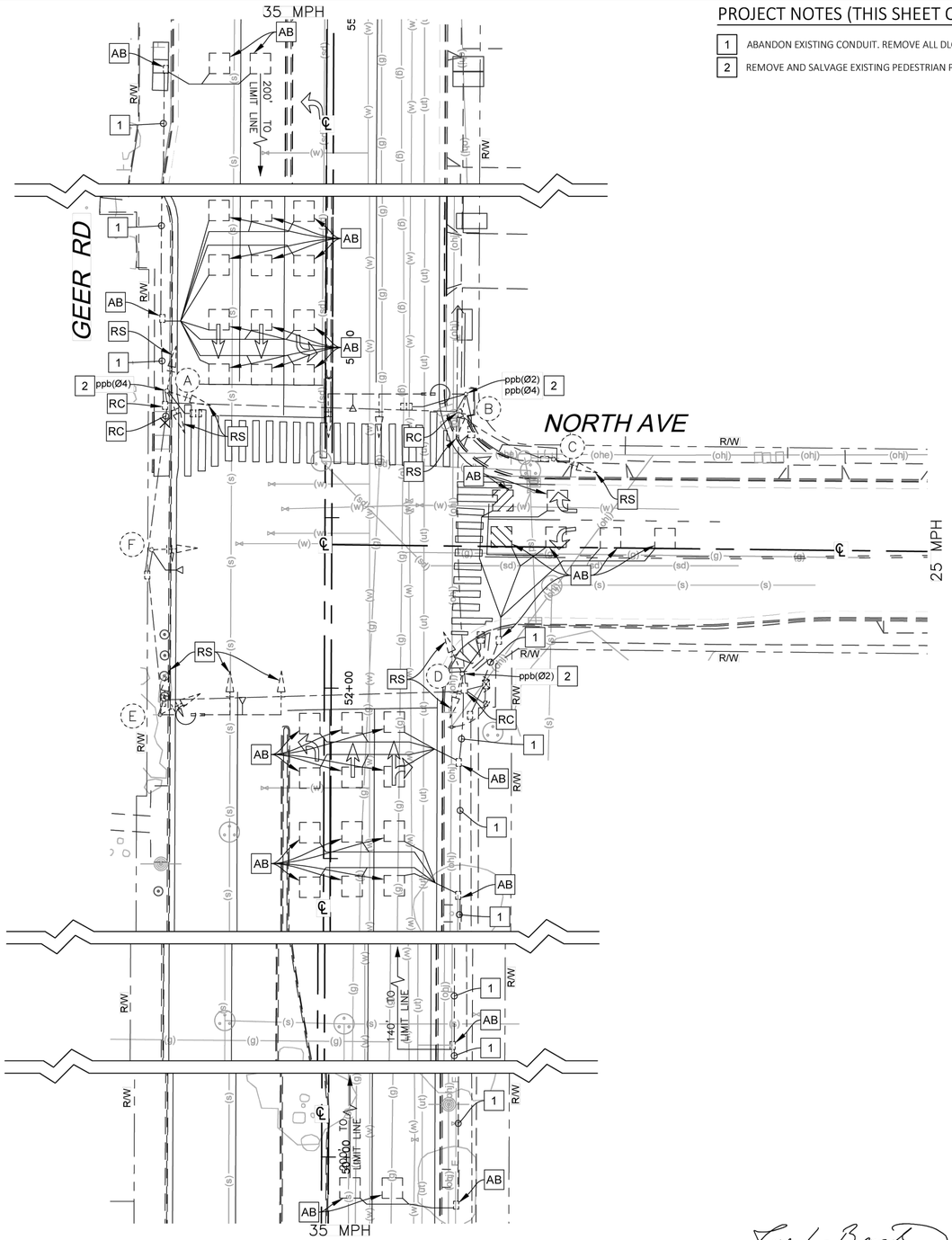
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & NORTH AVE

E–2

PATH: Z:\01 Projects\058 Turlock\058–003 Geer Road Signals\10 Traffic Signal Designs\P2–4. Geer Road at North Avenue Traffic Signal.dwg



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5 PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	A. BENAVIDES/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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CITY OF TURLOCK

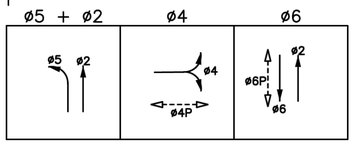
MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & NORTH AVE

Sheet 152 of 256 Sheets

E-3

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-4. Geer Road at North Avenue Traffic Signal\Geer Road at North Avenue Traffic Signal.dwg

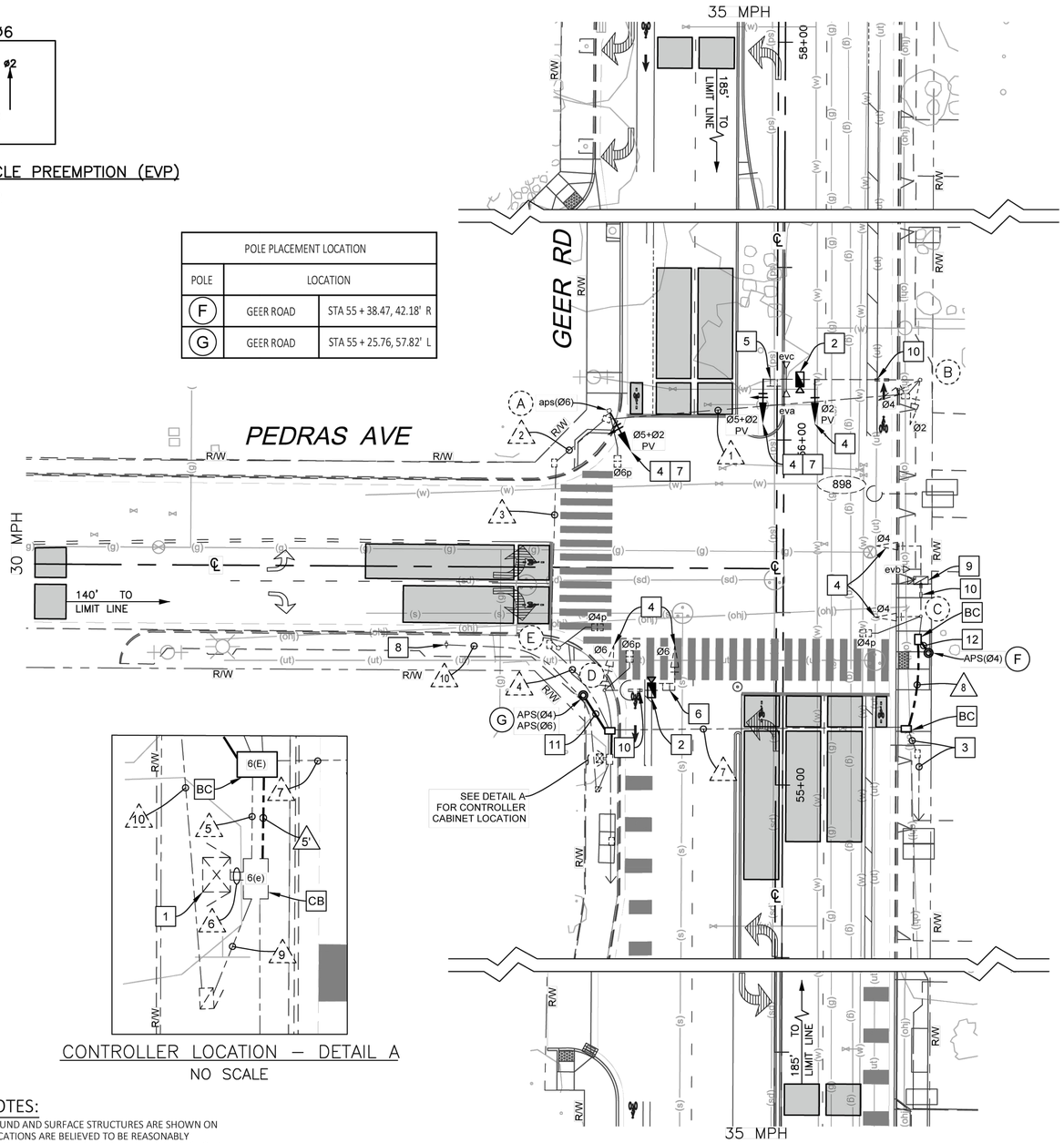
EXISTING STEADY DEMAND SEQUENCE



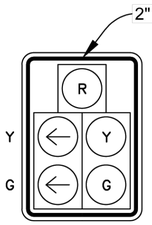
EXISTING EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø5 + ø2
evb = ø4
evc = ø6

POLE PLACEMENT LOCATION		
POLE	LOCATION	
F	GEER ROAD	STA 55 + 38.47, 42.18' R
G	GEER ROAD	STA 55 + 25.76, 57.82' L



CONTROLLER LOCATION – DETAIL A
NO SCALE



5–SECTION HEAD – DETAIL B
NO SCALE

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER. THE VIDEO DETECTION ZONES SHALL BE ALIGNED TO MATCH THE LANE CONFIGURATION AS DIRECTED BY THE RESIDENT ENGINEER.
3. EXISTING 2" C, PULL TAPE, AND 1 SIC.
4. PROGRAMMABLE VISIBILITY SIGNAL HEADS SHALL BE VISIBLE FROM A MAXIMUM OF 225' FROM THE PROPOSED NORTHBOUND LIMIT LINE.
5. EXISTING R73-2(CA) SIGN ON SIGNAL MAST ARM.
6. EXISTING R3-18 SIGN ON SIGNAL MAST ARM.
7. FURNISH AND INSTALL 5-SECTION PV SIGNAL HEAD PER DETAIL B ON THIS SHEET.
8. EXISTING ELECTRICAL POINT OF SERVICE ON POWER POLE.
9. EXISTING HYBRID RADAR/VIDEO DETECTION CAMERA.
10. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.
11. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.
12. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- EXISTING HYBRID RADAR/VIDEO DETECTION CAMERA.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- ℄ CENTER LINE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- PV PROGRAMMABLE VISIBILITY
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- R/W EXISTING RIGHT OF WAY
- EXISTING No. 5(E) PULL BOX UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-3, Geer Road at Pedras Avenue Traffic Signal\Geer Road at Pedras Avenue Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET GEER RD & PEDRAS AVE

E-4

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE										
			1	2	3	4	5	5	6	7	8	9	10
			4"	4"	4"	3"	3"	3"	2-3"	4"	4"	1½"	2"
CONDUIT FILL			5%	9%	9%	21%	33%	8%	20%	6%	5%	18%	13%
12 COND. CABLE (VEH.) (PED.) *	A	2,5,6P / 6P		1 / 1	1 / 1	1 / 1	1 / 1		1 / 1				
	B	2,4,5 / -	1 / -	1 / -	1 / -	1 / -	1 / -		1 / -				
	C	4,4P / -					1 / -		1 / -	1 / -	1 / -		
	D	6,6P / -					1 / -		1 / -				
	E	4P / -				1 / -	1 / -		1 / -				
3 COND. CABLE (APS) *	F	- / 4P					- / 1		- / 1	- / 1	- / 1		
	G	- / 4P,6P					- / 2		- / 2				
TOTAL			1 / -	2 / 1	2 / 1	3 / 1	5 / 4		5 / 4	1 / 1	1 / 1		
# 2	SERVICE												(3)
# 6	SIGNAL POWER								(2)			(2)	
# 8	SAFETY LIGHTS							2				2	
# 10	IISNS		2	2	2	2		2		2	2	2	
# 10	BONDING WIRE		1	1	1	1	1	1	1	1	1	1	
4 - # 14	INTERCONNECT						(1)		(1)	(1)			
CAT 5E	VIDEO DETECTION		1	1	1	1		3	3	1	1		
EVP CABLE 3 COND.	EVA (N/B)		1	1	1	1		1	1				
	EVB (E/B)							1	1	1	1		
	EVC (S/B)		1	1	1	1		1	1				

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	1–A (10')	–	–	–	TV–1–T (N)	6	SP–1–T	6	RIGHT	–	–	–	REMOVE AND SALVAGE EXISTING TV-1-T VEHICLE HEAD MOUNTING HARDWARE.
B	27–4–80	45'	–	MAT MAS	SV–2–T	–	–	–	–	–	–	EVA EVC	EXISTING IISNS " PEDRAS RD" ON SMA TO REMAIN.
C	16–2–80	20'	–	MAS	SV–1–T	4	SP–1–T	–	–	–	–	EVB	EXISTING IISNS " GEER RD" ON SMA TO REMAIN.
D	19–3–80	20'	10'	MAT	SV–1–T	6	SP–1–T	–	–	81W	2845	–	EXISTING IISNS " PEDRAS RD" ON SMA TO REMAIN.
E	1–A (7')	–	–	–	–	4	TP–1–T	–	–	–	–	–	
F	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	4	LEFT	–	–	–	RELOCATE APS ASSEMBLY FROM POLE C TO POLE F. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
G	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	4 6	LEFT RIGHT	–	–	–	RELOCATE APS ASSEMBLIES FROM POLES E AND D TO POLE G. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
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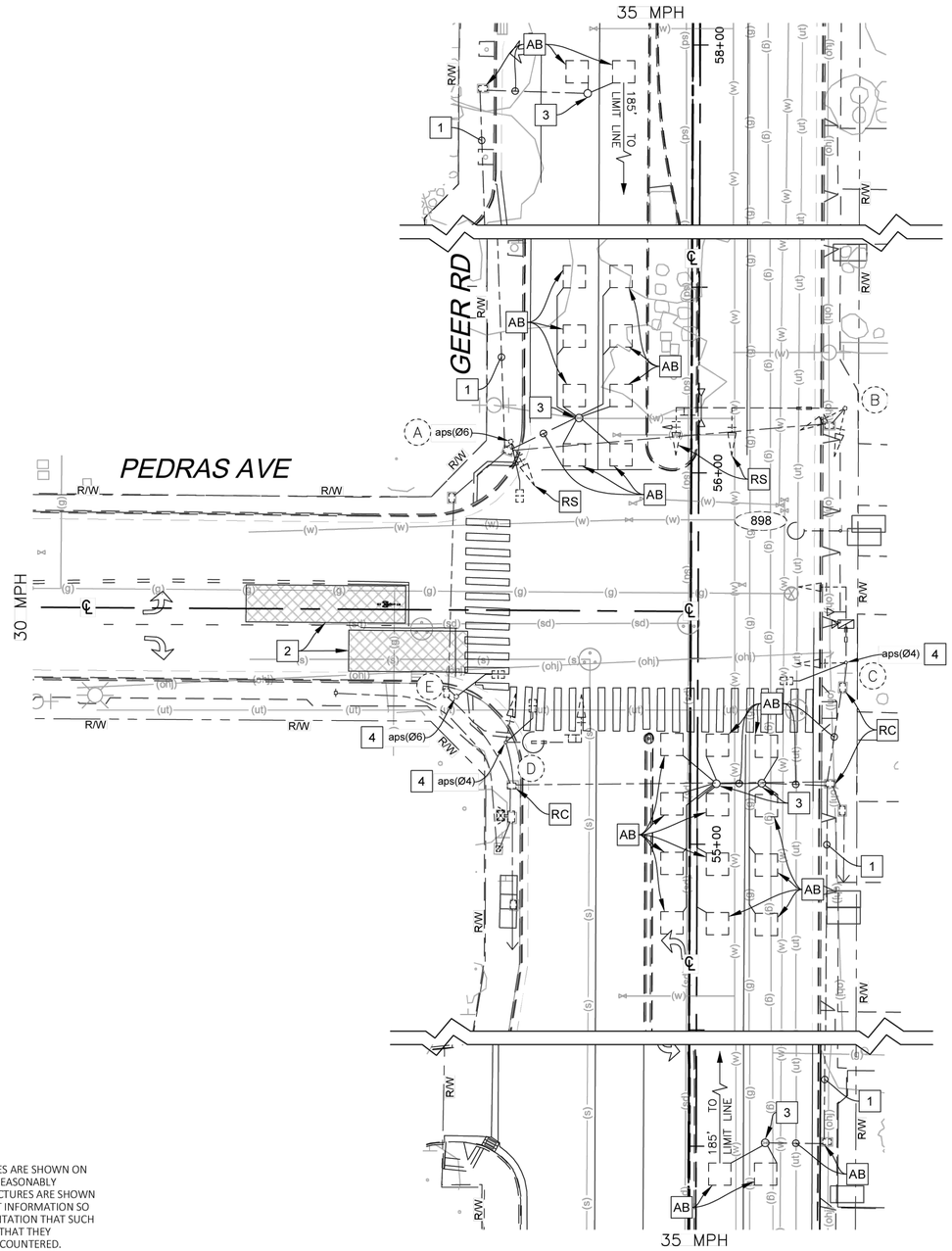
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & PEDRAS AVE

E–5

PATH: Z:\01 Projects\058 Turlock\058–003 Geer Road Signals\10 Traffic Signal Designs\P2–3, Geer Road at Pedras Avenue Traffic Signal\Geer Road at Pedras Avenue Traffic Signal.dwg

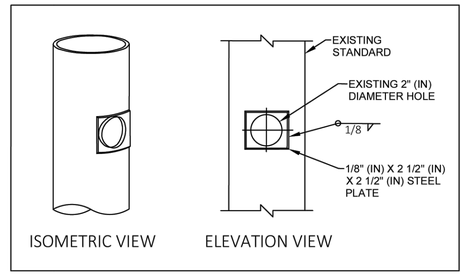


PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. EXISTING VIDEO DETECTION ZONES. REFER TO SIGNAL PLAN SHEET E-4 FOR RELOCATION OF DETECTION ZONES.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.
4. RELOCATE EXISTING APS ASSEMBLY TO NEW TYPE 2 POST PER SHEET E-4. REFER TO DETAIL A ON THIS SHEET FOR DETAIL ON HOLE REPAIR.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING HYBRID RADAR/VIDEO DETECTION CAMERA.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING LUMINAIRE
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- CENTER LINE
- R/W — EXISTING RIGHT OF WAY
- AB — ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC — EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS — REMOVE AND SALVAGE EQUIPMENT



HOLE REPAIR - DETAIL A
EXAMPLE WITH 2" (IN) HOLE SHOWN

SPECIAL NOTES:

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R.C.E. 62971 — 06/05/2026 DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	A. BENAVIDES/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
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REGISTERED PROFESSIONAL ENGINEER — JOSE LUIS BENAVIDES — No.C 62971 Exp:06/30/26 — CIVIL — STATE OF CALIFORNIA

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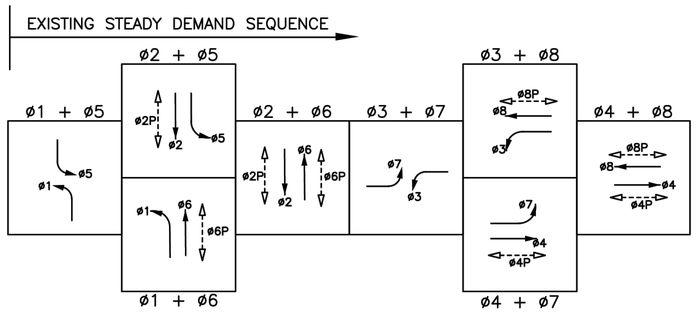
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & PEDRAS AVE

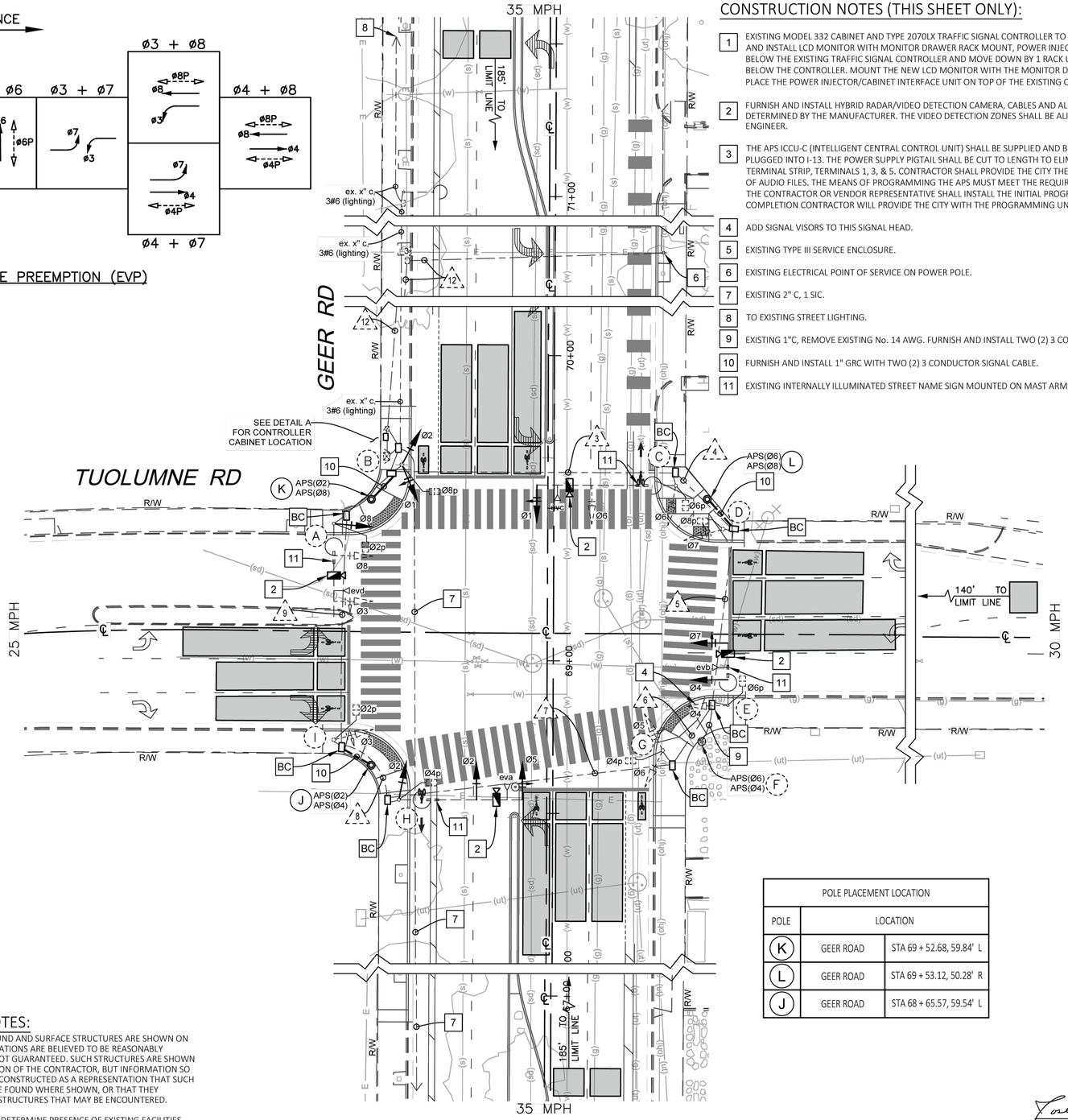
E-6

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-3, Geer Road at Pedras Avenue Traffic Signal\Geer Road at Pedras Avenue Traffic Signal.dwg



EXISTING EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4 + ø7
evc = ø6 + ø1
evd = ø8 + ø3



CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN EVERYTHING BELOW THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE DOWN BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER. THE VIDEO DETECTION ZONES SHALL BE ALIGNED TO MATCH THE LANE CONFIGURATION AS DIRECTED BY THE RESIDENT ENGINEER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT
4. ADD SIGNAL VISORS TO THIS SIGNAL HEAD.
5. EXISTING TYPE III SERVICE ENCLOSURE.
6. EXISTING ELECTRICAL POINT OF SERVICE ON POWER POLE.
7. EXISTING 2" C, 1 SIC.
8. TO EXISTING STREET LIGHTING.
9. EXISTING 1"C, REMOVE EXISTING No. 14 AWG. FURNISH AND INSTALL TWO (2) 3 CONDUCTOR SIGNAL CABLE.
10. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.
11. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.

LEGEND (THIS SHEET ONLY):

- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
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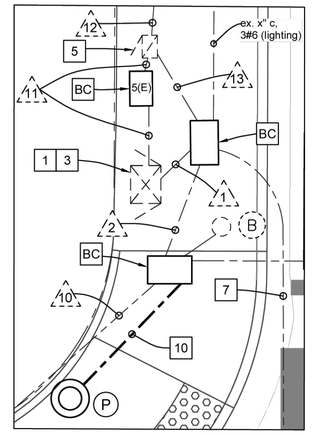
- R/W EXISTING RIGHT OF WAY
- EXISTING No. 5(E) PULL BOX UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.



CONTROLLER LOCATION – DETAIL A
NO SCALE

POLE PLACEMENT LOCATION		
POLE	LOCATION	
K	GEER ROAD	STA 69 + 52.68, 59.84' L
L	GEER ROAD	STA 69 + 53.12, 50.28' R
J	GEER ROAD	STA 68 + 65.57, 59.54' L

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R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-2. Geer Road at Tuolumne Road Traffic Signal\Geer Road at Tuolumne Road Traffic Signal.dwg

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DRAWN BY:	A. BENAVIDES/C. SANCHEZ
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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & TUOLUMNE RD

E-7

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**
			4"	4"	3"	3"	3"	3"	3"	3"	3"	3"	1.5"	2"	1.5"
CONDUIT FILL			35%	36%	27%	20%	12%	1%	6%	15%	23%	30%	11%	13%	10%
12 COND. CABLE (VEH.) (PED.) *	A	3,8,2P	1 -	1 -								1 -			
	B	1,2,8P	1 -	1 -											
	C	1,6,6P	1 -	1 -	1 -										
	D	7,8P	1 -	1 -	1 -	1 -									
	E	4,7,6P	1 -	1 -	1 -	1 -	1 -								
	F	4P,6P	- 2	- 2	- 2	- 2	- 2								
	G	5,6,4P	1 -	1 -					1 -	1 -	1 -	1 -			
	H	2,5,4P	1 -	1 -						1 -	1 -	1 -			
	I	3,2P	1 -	1 -							1 -	1 -			
3 COND. CABLE (APS) *	J	2P,4P	- 2	- 2							- 2	- 2			
	K	2P,8P	- 2	- 2											
	L	6P,8P	- 2	- 2	- 2	- 2									
TOTAL		-	8 8	8 8	3 4	2 4	1 2		1 -	2 -	3 2	4 2			
# 2	SERVICE													(3)	
# 4	SIGNAL POWER												(2)		
# 8	SAFETY LIGHTS		2	2	2	2			2	2	2				2
# 10	IISNS		2	2	2	2			2	2	2				2
# 10	BONDING WIRE	1	1	1	1	1	1	1	1	1	1				1
4 - # 14	INTERCONNECT	(1)													
CAT 5E	VIDEO DETECTION	4	4	2	1	1			1	1	2				
EVP CABLE 3 COND.	EVA (S/B)	1	1						1	1	1				
	EVB (E/B)	1	1	1	1	1									
	EVC (N/B)	1	1	1											
	EVD (W/B)	1	1								1				

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	19–3–80	30'	15'	MAT MAS	SV–1–T (N)	2	SP–1–T	–	–	151W	1933	EVD	EXISTING IISNS "GEER ROAD", AND EVD ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T (N)	8	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
C	26–4–100 (MOD)	45'	15'	MAT MAS	SV–1–T	6	SP–1–T	–	–	151W	858	EVC	EXISTING IISNS "E TUOLUMNE ROAD", AND EVC ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 2400" AND "E TUOLUMNE RD 100" ON POLE STANDARD TO REMAIN
D	1–A (10')	–	–	–	TV–1–T	8	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
E	17–3–80	20'	12'	MAT MAS	SV–1–T	6	SP–1–T	–	–	151W	860	EVB	EXISTING IISNS "GEER RD", AND EVB ON SMA TO REMAIN.
F	2" PPB POST	–	–	–	–			6 (N) 4 (N)	LEFT(N) RIGHT(N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE.
G	1–A (10')	–	–	–	TV–2–T	4	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
H	26–3–80	40'	15'	MAT MAS	SV–1–T (N)	4	SP–1–T	–	–	151W	1736	EVA	EXISTING IISNS "W TUOLUMNE ROAD", AND EVA ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
I	1–A (10')	–	–	–	TV–1–T	2	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
J	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N) 4 (N)	RIGHT(N) LEFT (N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
K	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N) 8 (N)	LEFT (N) RIGHT(N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
L	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	8 (N) 6 (N)	LEFT (N) RIGHT(N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-2, Geer Road at Tuolumne Road Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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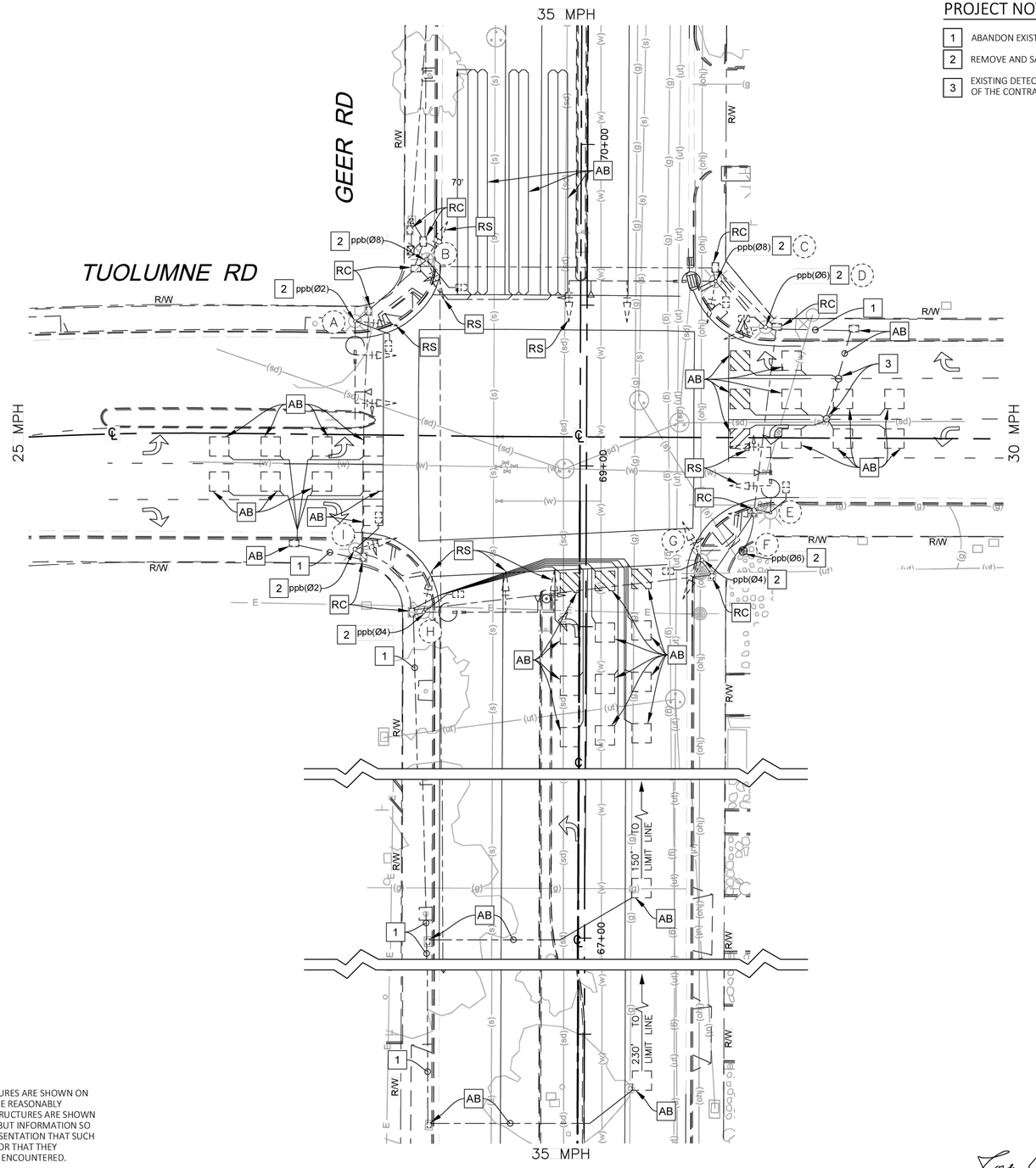
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & TUOLUMNE RD

E-8



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.

LEGEND:

- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- VARIES — EXISTING TYPE Q LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

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CITY OF TURLOCK

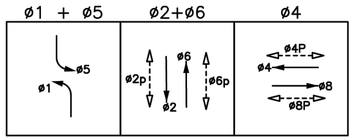
MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & TUOLUMNE RD

Sheet 158 of 256 Sheets

E-9

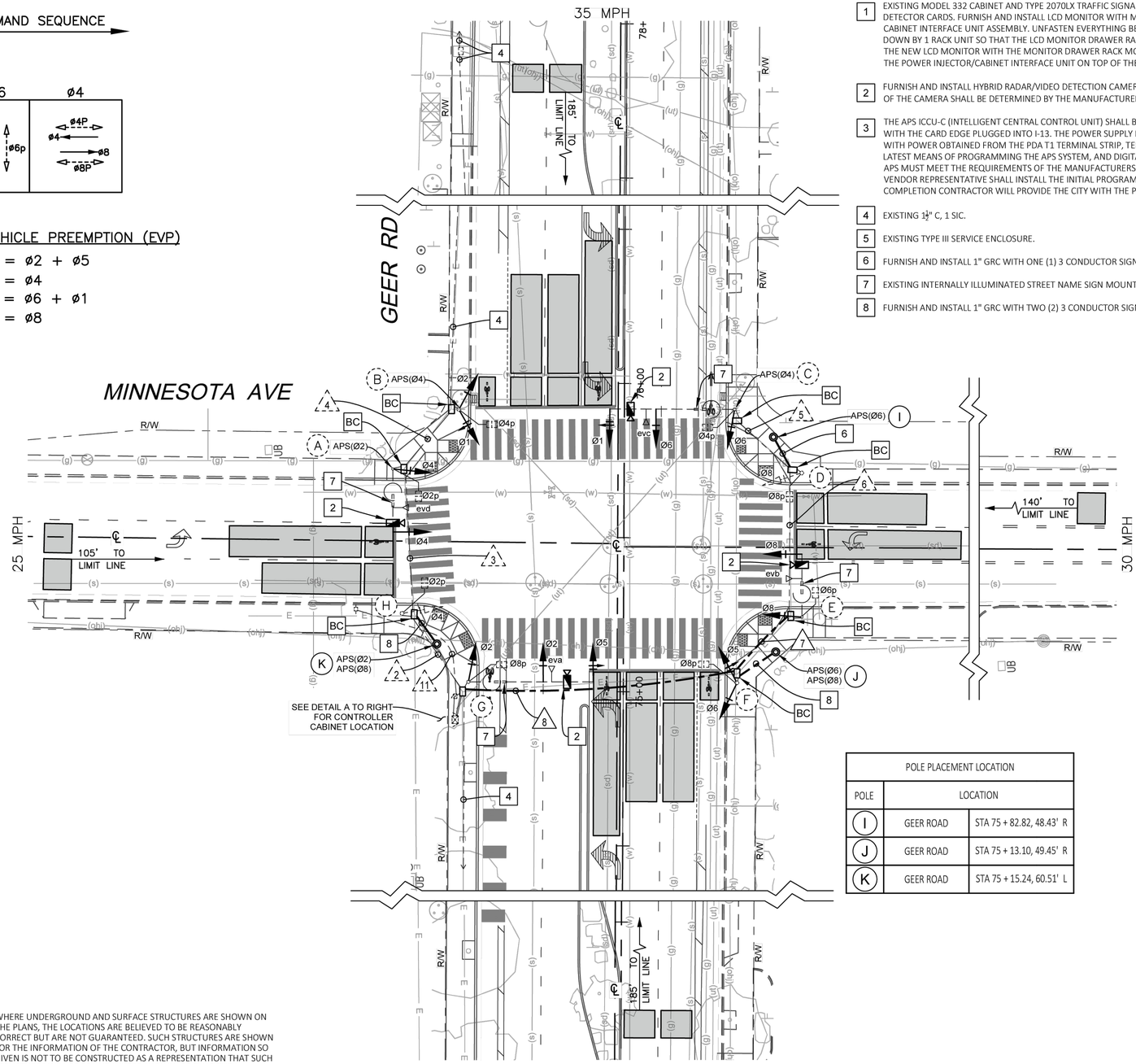
PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-2 Geer Road at Tuolumne Road Traffic Signal\Geer Road at Tuolumne Road Traffic Signal.dwg

EXISTING STEADY DEMAND SEQUENCE



EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4
evc = ø6 + ø1
evd = ø8



CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN EVERYTHING BELOW THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE DOWN BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT
4. EXISTING 1¼" C, 1 SIC.
5. EXISTING TYPE III SERVICE ENCLOSURE.
6. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.
7. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.
8. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.

LEGEND (THIS SHEET ONLY):

- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL)
- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

POLE PLACEMENT LOCATION		
POLE	LOCATION	
I	GEER ROAD	STA 75 + 82.82, 48.43' R
J	GEER ROAD	STA 75 + 13.10, 49.45' R
K	GEER ROAD	STA 75 + 15.24, 60.51' L

CONTROLLER LOCATION – DETAIL A
NO SCALE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-1. Geer Road at Minnesota Avenue Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	D. CERVANTES/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & MINNESOTA AVE

E-10

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE										
			1	2	3	4	5	6	7	8	9	10	11
			3-3½"	3½"	3"	2"	2"	2"	4"	4"	1½"	1½"	1½"
CONDUIT FILL			18%	20%	19%	18%	24%	39%	14%	19%	11%	10%	22%
12 COND. CABLE (VEH.) (PED.) *	A	4,2P / 2P	1 / 1	1 / 1	1 / 1								
	B	1,2,4P / 4P	1 / 1	1 / 1	1 / 1	1 / 1							
	C	1,6,4P / 4P	1 / 1				1 / 1	1 / 1	1 / 1	1 / 1			
	D	8,8P / -	1 / -					1 / -	1 / -	1 / -			
	E	8,6P / -	1 / -						1 / -	1 / -			
	F	5,6,8P / -	1 / -							1 / -			
	G	2,5,8P / -	1 / -										
	H	4,2P / -	1 / -	1 / -									
3 COND. CABLE (APS) *	I	- / 6P	- / 1					- / 1	- / 1	- / 1			
	J	- / 6P,8P	- / 2							- / 2			
	K	- / 2P,8P	- / 2	- / 2									
TOTAL			8 / 8	3 / 4	2 / 2	1 / 1	1 / 1	2 / 2	3 / 2	4 / 4			
# 2	SERVICE												(3)
# 4	SIGNAL POWER										(2)		
# 8	SAFETY LIGHTS		2	2		2	2	2	2			2	
# 10	IISNS		2	2		2	2	2	2			2	
# 10	BONDING WIRE	1	1	1	1	1	1	1	1			1	
4 - # 14	INTERCONNECT	(2)	(1)	(1)	(1)								
CAT 5E	VIDEO DETECTION	4	1	1		1	1	2	2				
EVP CABLE 3 COND.	EVA (S/B)	1											
	EVB (E/B)	1						1	1				
	EVC (N/B)	1				1	1	1	1				
	EVD (W/B)	1	1	1									

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV PREEMPT	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW				
A	17–3–80	20'	12'	MAS	SV–1–T (N)	2	SP–1–T	2 (N)	LEFT (N)	151W	1934	evd	EXISTING IISNS "GEER ROAD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T (N)	4	SP–1–T	4 (N)	RIGHT(N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
C	26–3–80	40'	15'	MAT MAS	SV–1–T (N)	4	SP–1–T	4 (N)	LEFT (N)	151W	834	evc	EXISTING IISNS "MINNESOTA AVE" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 2600" AND "E MINNESOTA AVE 000" ON POLE STANDARD TO REMAIN. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–1–T	6	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
E	17–3–80	20'	12'	MAS	SV–1–T (N)	6	SP–1–T	–	–	151W	838	evb	EXISTING IISNS "GEER ROAD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
F	1–A (10')	–	–	–	TV–2–T (N)	4	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING TV-2-T VEHICLE HEAD MOUNTING HARDWARE.
G	26–3–80	40'	15'	MAT MAS	SV–1–T (N)	4	SP–1–T	–	–	151W	1931	eva	EXISTING IISNS "MINNESOTA AVE" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 2600" AND "W MINNESOTA AVE 000" ON POLE STANDARD TO REMAIN. REMOVE AND SALVAGE EXISTING SV-1-T VEHICLE HEAD MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–1–T	2	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
I	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	6 (N)	RIGHT(N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .
J	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	8 (N) 6 (N)	RIGHT(N) LEFT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE .
K	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N) 8 (N)	RIGHT(N) LEFT (N)	–	–	–	FURNISH AND INSTALL DUAL APS ASSEMBLIES COMPLETE WITH MOUNTING HARDWARE .

NOTES:
1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

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

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: D. CERVANTES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
PHONE: (559) 570–8991
EMAIL: info@JLBtraffic.com

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

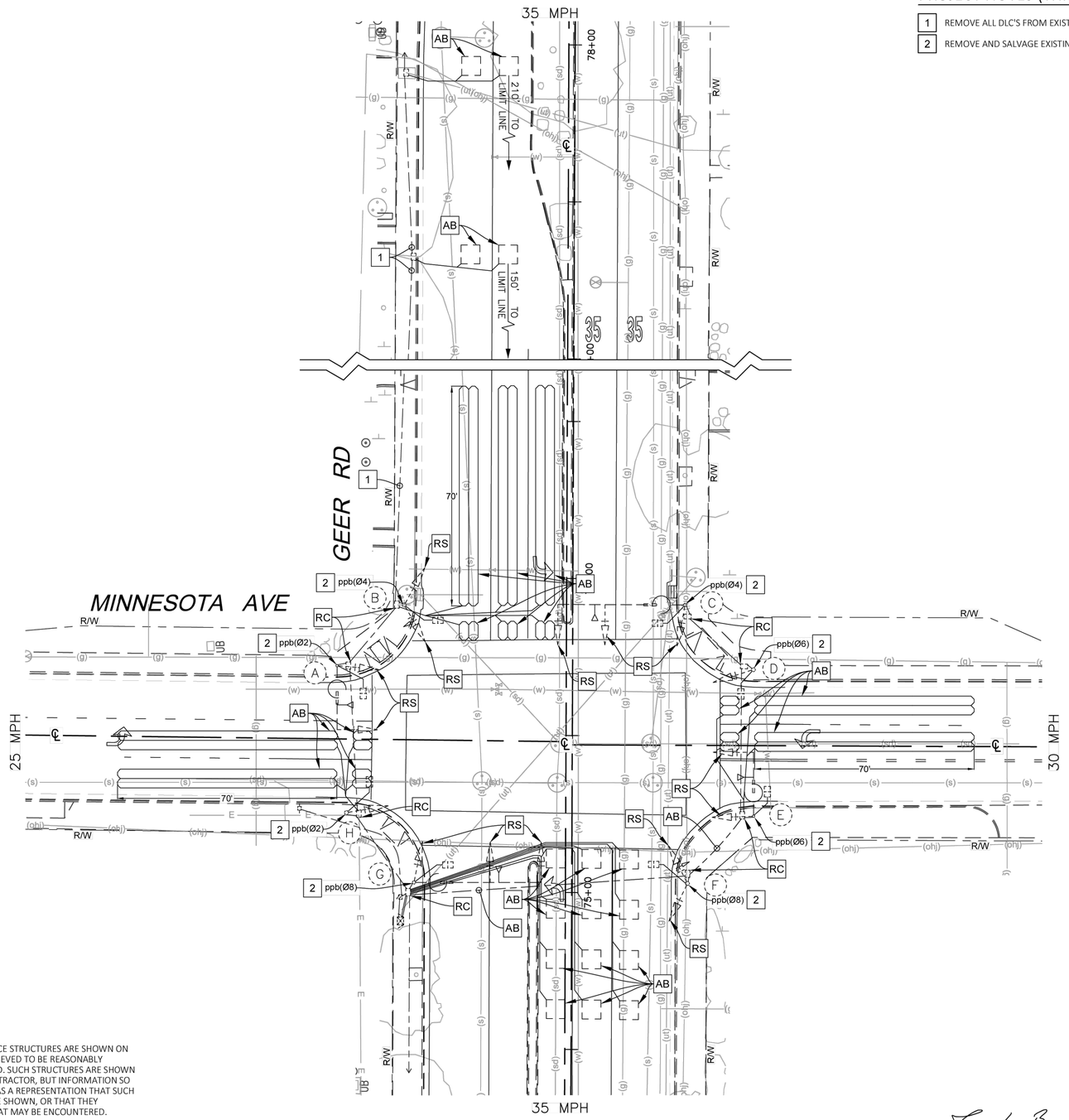
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & MINNESOTA AVE

Sheet 160 of 256 Sheets

E–11

PATH: Z:\01 Projects\058 Turlock\058–003 Geer Road Signals\10 Traffic Signal Designs\P2–1. Geer Road at Minnesota Avenue Traffic Signal\Geer Road at Minnesota Avenue Traffic Signal.dwg



PROJECT NOTES (THIS SHEET ONLY):

1. REMOVE ALL DLC'S FROM EXISTING CONDUIT.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.

LEGEND:

- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING TYPE C LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- VARIES — EXISTING TYPE Q LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS REMOVE AND SALVAGE EQUIPMENT

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: D. CERVANTES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
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CITY OF TURLOCK
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & MINNESOTA AVE

E-12

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P2-1. Geer Road at Minnesota Avenue Traffic Signal\Geer Road at Minnesota Avenue Traffic Signal.dwg

CITY OF TURLOCK

CONSTRUCTION PLANS FOR ROADS PROGRAM CAPITAL IMPROVEMENT PROJECT

FEDERAL PROJECT: RSTPL-5165(103)

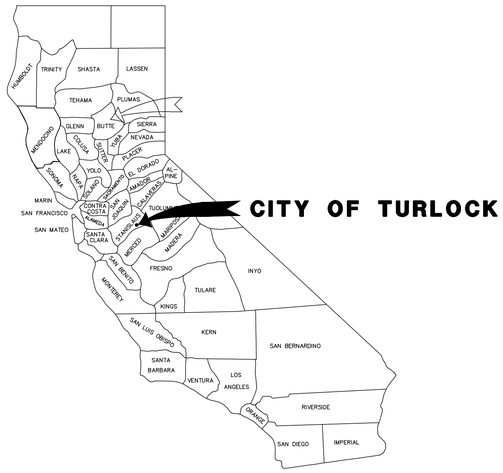
CITY PROJECT NO. 23-052

GEER ROAD PAVEMENT REHABILITATION PROJECT

PHASE 3

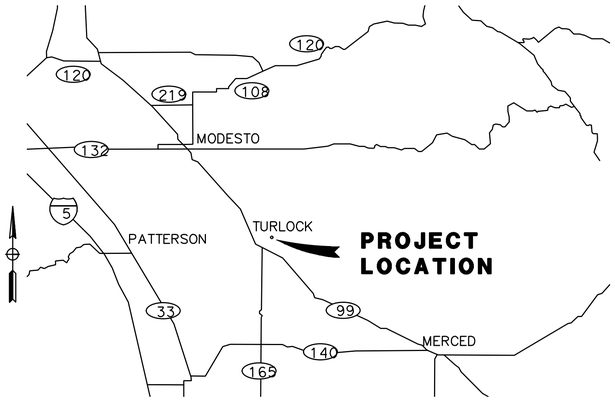
GEER RD: MONTE VISTA AVE TO TAYLOR RD

SUPPLEMENTED BY CALTRANS STANDARD PLANS
AND STANDARD SPECIFICATIONS DATED 2025
AND CITY OF TURLOCK ENGINEERING DESIGN STANDARD
SPECIFICATIONS AND DRAWINGS DATED 2016.



CALIFORNIA STATE MAP

NO SCALE

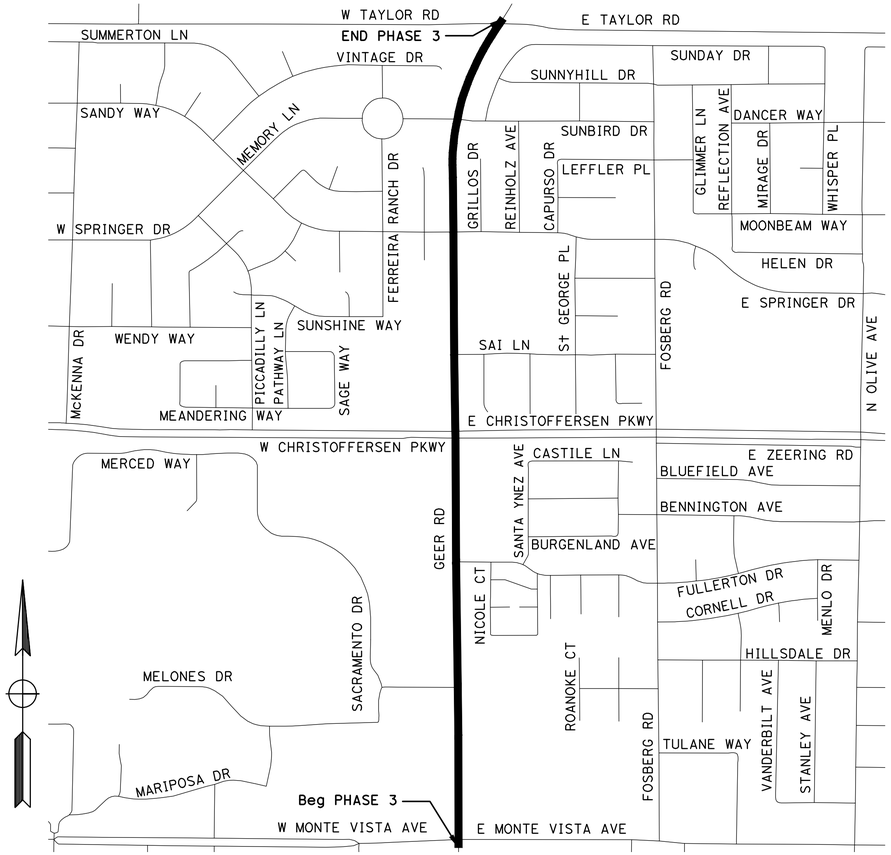


VICINITY MAP

NO SCALE

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL CALL
"UNDERGROUND SERVICE ALERT" (USA)
AT 811 AT LEAST 2 WORKING DAYS
PRIOR TO PERFORMING ANY EXCAVATION



PROJECT LOCATION MAP

NO SCALE

SHEET INDEX

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166	K-1	KEY MAP
167-168	X-1 TO X-2	TYPICAL SECTIONS
169-174	DM-1 TO DM-6	DEMOLITION PLANS
175-180	L-1 TO L-6	LAYOUTS
181-195	CD-1 TO CD-15	CONSTRUCTION DETAILS
196-207	G-1 TO G-12	GRADING PLANS
208-213	DU-1 TO DU-6	DRAINAGE UTILITIES
214	DP-1	DRAINAGE PROFILES
215-218	TH-1 TO TH-4	TRAFFIC HANDLING PLANS
219-224	SS-1 TO SS-6	SIGNING AND STRIPING
225-230	IP-1 TO IP-6	IRRIGATION PLANS
231-232	ID-1 TO ID-2	IRRIGATION DETAILS
233-238	PP-1 TO PP-6	PLANTING PLANS
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240-253	E-1 TO E-14	ELECTRICAL PLANS
254-256	IC-1 TO IC-3	IRRIGATION CONTROLLER PLANS

CITY OF TURLOCK APPROVAL

WILLIAM D. MORRIS, P.E., P.L.S — DATE
CITY ENGINEER
MUNICIPAL SERVICES DEPARTMENT

UTILITY CONTACTS

UTILITY	CONTACT	PHONE
AT&T	RICHARD ABALLE	(209) 281-6739
CVIN	BILL KENIK	(559) 919-2467
CHARTER COMMUNICATIONS	MITCHELL KEELE	(209) 633-3346
TID ELECTRICAL	DAVID PORATH	(209) 605-0945
TID IRRIGATION	BILL PENNEY	(209) 883-8385
CITY OF TURLOCK ELECTRICAL	DOYLE PERRY	(209) 668-5590
CITY OF TURLOCK STORM AND SEWER	CARLOS GUERRERO	(209) 345-2169
CITY OF TURLOCK WATER	ORLANDO GUTIERREZ	(209) 740-3868
PG&E DISTRIBUTION	TRENT MILLSAP	(209) 561-6070
PG&E TRANSMISSION	MARTIN OCHOA	(925) 332-6076

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. C 81556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
TITLE SHEET

Sheet 162 of 256 Sheets

T-1

GENERAL NOTES:

1. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR. JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

2. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTER LINE OF THE STREET. ALL STATIONS ON THE CURBS ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTER LINE STATIONS, UNLESS OTHERWISE NOTED.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES.

4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT EDITION OF STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

5. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS; AND THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS. CITY OF TURLOCK STANDARD DRAWINGS ARE AVAILABLE AT THE MUNICIPAL SERVICES DEPARTMENT.

6. CONSTRUCTION STAKING AND SURVEY IS THE RESPONSIBILITY OF THE CONTRACTOR. CONSTRUCTION STAKING SHALL BE PERFORMED BY A REGISTERED SURVEYOR OR ENGINEER RETAINED AND PAID FOR BY THE CONTRACTOR. THE SURVEYOR OR ENGINEER SHALL CERTIFY ON THE FINAL CONSTRUCTION DRAWING THAT THE STAKING WAS PERFORMED ACCORDING TO THE APPROVED PLANS.

7. TO SCHEDULE AN INSPECTION, THE CONTRACTOR SHALL CALL ROADS PROGRAM CONSTRUCTION INSPECTOR (209)668-5520, AT LEAST 24-HOURS PRIOR TO THE REQUIRED INSPECTION. THE CITY MUNICIPAL SERVICES DEPARTMENT WILL MAKE EVERY EFFORT TO PERFORM THE INSPECTION WITHIN THE NEXT BUSINESS DAY.

8. THE CITY OF TURLOCK OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION AND A 48 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.

9. DUST SHALL BE CONTROLLED BY THE CONTRACTOR AT ALL TIMES, INCLUDING HOLIDAYS AND WEEKENDS, PER SECTION 10 OF THE 2025 STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND THE CITY OF TURLOCK STANDARD SPECIFICATIONS. WATER USED FOR DUST CONTROL AND COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO THE START OF ANY WORK, AND ANY FEES OR DEPOSITS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CLEANLINESS OF THE EXISTING IMPROVED STREETS IN THE CONSTRUCTION AREA.

10. THE CONTRACTOR IS REQUIRED TO MAINTAIN PUBLIC SAFETY AT ALL TIMES. ANY OPERATION OR SITUATION THAT THREATENS THE SAFETY OF THE WORKERS OR PUBLIC, INCLUDING IMPROPER TRAFFIC CONTROL, WILL CAUSE THE SUSPENSION OF WORK UNTIL CORRECTIONS ARE MADE AND NO ADJUSTMENTS TO WORKING DAYS WILL BE GRANTED.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CLEAN AND SAFE WORKSITE AT ALL TIMES. IF THE CONTRACTOR FAILS TO MAINTAIN A CLEAN WORKSITE, THE CITY MAY ORDER STREET SWEEPING OR ORDER CORRECTIVE ACTION AT COST TO THE CONTRACTOR.

12. MATERIALS TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE ENGINEER.

13. STANDARD DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS, SHOWN THUS; (i E. STD C-1)

14. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PRIOR TO THE EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH. UTILITY TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE TRENCHING AND COMPACTION REQUIREMENTS OF THE CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS. REFER TO STD T—1, T-2, AND T-3. ERRATA 1 2019 TRENCHING DETAILS.

15. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATIONS OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.

17. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED. ALL EXISTING MANHOLE LIDS WITHIN LIMITS OF STREET IMPROVEMENT SHALL BE MARKED AND TIED TO SURVEY PRIOR TO ADJUSTMENT.

18. FOR ALL WORK PERFORMED WITHIN PUBLIC RIGHT-OF—WAYS, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT, PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES, AND PROVIDE NECESSARY CONSTRUCTION TRAFFIC CONTROL FOR STREET IMPROVEMENTS. THE CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY THE NEED FOR ANY DETOUR PLAN WITH THE CITY OF TURLOCK. IF A PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE APPROVAL PRIOR TO CONSTRUCTION.

19. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.

20. THE CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771(b) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS. PRESERVATION OF EXISTING MONUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. THE ENGINEER WILL TIE OFF SAID MONUMENTS AND PROVIDE THE CONTRACTOR NOTICE TO PROCEED.

21. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF TURLOCK ARE FOLLOWED AS WELL AS TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (USA) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER (800)-642-2444, THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO POSITIVELY LOCATE (POTHOLE) AND PROTECT ALL EXISTING UTILITIES THAT MAY CONFLICT WITH ANY WORK ASSOCIATED WITH THIS CONTRACT SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY NECESSARY REPAIRS TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.

22. THE CONTRACTOR SHALL REACH OUT TO AFFECTED RESIDENTS PRIOR TO CONSTRUCTION TO INFORM THEM OF THE RELOCATION OF ANY FENCE OR VEGETATION.

23. THE CONTRACTOR SHALL RESTORE ALL EXISTING LANDSCAPING AND/OR IRRIGATION DISTURBED DURING CONSTRUCTION ACTIVITIES AND REPLACE LANDSCAPING WITH SOD WHERE GRASS IS DISTURBED. THE CONTRACTOR SHALL RELOCATE SPRINKLERS AS NECESSARY SO AS TO WATER OWNER'S LANDSCAPING, BUT NOT NEW CONCRETE SURFACES, TYPICAL OF ALL LOCATIONS WHERE GRASS OR BUSHES HAVE BEEN PLANTED BY OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IRRIGATION IN THE CASE OF ANY INTERRUPTION OF SERVICE, INCLUDING DURING HOLIDAYS AND WEEKENDS. ANY DEAD LANDSCAPING DUE TO CONSTRUCTION ACTIVITIES OR INTERRUPTION OF IRRIGATION SERVICE SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.

24. WITHIN LIMITS OF THE PROJECT, WHERE EXISTING CURB IS REPLACED, ANY PAINT ON THE EXISTING CURB SHALL BE REPLACED IN KIND ON THE NEW CURB. THIS INCLUDES BUT IS NOT LIMITED TO RED CURB, WHITE CURB, AND HOUSE NUMBERS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING TREES, SHRUBS AND OTHER PLANTS THAT ARE NOT TO BE REMOVED. OVERHEAD UTILITY POLES/LINES, FENCES, SIGNS, MARKERS AND MONUMENTS, BUILDINGS AND STRUCTURES, CONDUITS, PIPELINES UNDER OR ABOVE GROUND, SEWER AND WATER LINES, SPRINKLER SYSTEMS ABOVE OR BELOW GROUND, ALL ROADWAY FACILITIES, AND ANY OTHER IMPROVEMENTS OR FACILITIES WITHIN OR ADJACENT TO THE RIGHT-OF—WAY SHALL BE PROTECTED BY THE CONTRACTOR FROM INJURY OR DAMAGE. IF ORDERED BY ENGINEER, THE CONTRACTOR SHALL PROVIDE AND INSTALL SUITABLE SAFEGUARDS, APPROVED BY ENGINEER, TO PROTECT SUCH OBJECTS FROM INJURY OR DAMAGE.

26. THE CONTRACTOR SHALL COMPLETE ALL REQUIRED EARTHWORK, GRADING, AND INITIAL PAVING (FIRST LIFT) WITHIN EIGHT (8) CALENDAR DAYS AFTER PAVEMENT REMOVAL. THE CONTRACTOR IS NOT ALLOWED TO DEMO ALL OF THE PEDESTRIAN CURB RAMPS AT THE SAME TIME. THE CONTRACTOR SHALL SCHEDULE THE CURB RAMP REPLACEMENT WORK TO PROVIDE PEDESTRIAN ACCESS AT ALL TIMES.

27. NEW OR REPLACED CURB AND GUTTER, SIDEWALK, OR DRIVEWAY SHALL INCLUDE NECESSARY GRADING BEHIND THE IMPROVEMENT TO CONFORM TO EXISTING CONDITION, UP TO 5 FEET OR TO THE CITY RIGHT-OF-WAY. WHERE ANY CONSTRUCTION ACTIVITY MAY ENCROACH INTO PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

CLEARING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING AND GRUBBING, PRUNING AND REMOVING TREE ROOTS THAT INTERFERE WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO TREE ROOTS ARE PRUNED OR CUT THAT COULD COMPROMISE THE STABILITY OF THE TREE. THE CONTRACTOR SHALL RETAIN AN ARBORIST, AT THEIR OWN EXPENSE PRIOR TO BEGINNING THE WORK. THE CONTRACTOR'S ARBORIST SHALL PROVIDE A WORK PLAN THAT DESCRIBES THE METHOD OF PRUNING AND REMOVING MINOR TREE ROOTS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE ARBORIST WILL PROVIDE RECOMMENDATIONS FOR REVIEW BY THE CITY.

DUST CONTROL NOTES:

1. SPRAY WATER ON ALL EXPOSED EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING AND OTHER SITE PREPARATION ACTIVITIES THROUGHOUT THE DAY TO MINIMIZE DUST. USE TARPAULINS OR OTHER EFFECTIVE COVERS ON ALL STOCKPILED EARTH MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST. SWEEP THE ADJACENT STREET FRONTAGES AT LEAST ONCE A DAY OR AS NEEDED TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. ENSURE THAT CONSTRUCTION VEHICLES ARE CLEANED PRIOR TO LEAVING THE SITE TO PREVENT DUST AND DIRT FROM BEING TRACKED OFF SITE.

2 ALL EXPOSED SURFACES SHALL BE WATERED A MINIMUM OF TWICE DAILY, INCLUDING ON HOLIDAYS AND WEEKENDS, UNLESS DEEMED UNNECESSARY DUE TO WEATHER. WATER SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

3. DUST PALLIATIVES MAY BE SUBSTITUTED FOR WATERING UPON THE APPROVAL OF THE ENGINEER. DUST PALLIATIVES SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF 2025 CALTRANS STANDARD SPECIFICATIONS.

STORM WATER POLLUTION PREVENTION:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A COMPLETED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SIGNED AND CERTIFIED BY A QUALIFIED SSWPP DEVELOPER (QSD). ONCE APPROVED, CONTRACTOR SHALL SUBMIT SWPPP AND NOTICE OF INTENT (NOI) WITH THE CALIFORNIA DEPARTMENT OF WATER QUALITY CONTROL BOARD. THE CONTRACTOR SHALL ADHERE TO THE SWPPP AT ALL TIMES. THE CONTRACTOR SHALL FILE THE ANNUAL REPORT, AND NOTICE OF TERMINATION (NOT) WHEN THE PROJECT IS COMPLETED.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES:

1. ALL STRIPING AND SIGN PANELING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION REVISION 9, DATED JANUARY 8, 2026.

CITY OF TURLOCK STANDARD PLANS

VERTICAL CURB, CURB AND GUTTER, VALLEY GUTTER	C-1
RESIDENTIAL AND COMMERCIAL SIDEWALK	C-3
SIDEWALK OBSTRUCTION TRANSITION	C-4
RESIDENTIAL DRIVEWAY APPROACH	C-5
COMMERCIAL DRIVEWAY APPROACH	C-8
DETECTABLE WARNING SURFACE	C-15
STANDARD MEDIAN NOSE	ST-17
STANDARD MANHOLE	S-3
MANHOLE FRAME AND COVER	S-5
CATCH BASIN NO. 3	SD-3
LINE VALVE	W-5
WATER VALVE BOX	W-6

STANISLAUS COUNTY STANDARD PLANS

MEDIAN THRU DRAIN DETAIL	3N-1

CALTRANS STANDARD PLANS

ABBREVIATIONS	A3A-A3C
LEGEND	A10A-A10E
PAVEMENT MARKERS AND TRAFFIC LINES	A20A-A20G
PAVEMENT MARKINGS	A24A-A24H
EXCAVATION AND BACKFILL	A62A
CURB RAMP DETAILS	A88A
PAVEMENT EDGE TREATMENTS AND OVERLAYS	P75

**USE LATEST VERSION 2025 OF REVISED STANDARD PLANS PER CALTRANS WEBSITE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. ADRIEGA — No. 84156 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
GENERAL NOTES

GN-1

LEGEND:

- DETECTABLE WARNING SURFACE
- MINOR CONCRETE (CURB, GUTTER, VALLEY GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (ALLEYWAY AND DRIVEWAY APPROACH)
- HMA MISC AREA (DRIVEWAY APPROACH)
- REMOVE CONCRETE (CURB, GUTTER, VG, AND SIDEWALK)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT
- MINOR CONCRETE (MEDIAN PAVING)
- LANDSCAPING (SEE LANDSCAPING SHEETS)
- GRIND OVERLAY WITH Var GRIND / 0.4' HMA
- RECONSTRUCT WITH 0.4' HMA / 1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- Exist FENCE
- CITY OF TURLOCK RIGHT OF WAY (R/W)
- PARCEL LINES
- FILL
- CUT

- BEGIN/END OF TRAFFIC STRIPE DETAIL
- CHANGE OF TRAFFIC STRIPE DETAIL
- X-X TRAFFIC STRIPE DETAIL NUMBER
- LL LIMIT LINE
- CONTINENTAL CROSSWALK
- STOP "STOP" PAVEMENT MARKING
- POTHOLE LOCATION
- # POTHOLE NUMBER
- STREET LIGHT
- EXIST STREET LIGHT
- EXIST MANHOLE
- EXIST STORM DRAIN INLET
- PROPOSED STORM DRAIN INLET
- EXIST FIRE HYDRANT
- EXIST POWER POLE
- EXIST GUY WIRE
- EXIST UTILITY BOX
- EXIST WATER VALVE
- EXIST SIGN
- PROPOSED SIGN

UTILITY OWNERSHIP ON THIS PROJECT:

GAS	-	PG&E GAS
FIBER OPTIC (UG)	-	CVIN
SEWER	-	CITY OF TURLOCK
WATER	-	CITY OF TURLOCK
JOINT OVERHEAD	-	CHARTER COMMUNICATIONS & TID ELECTRIC
JOINT OVERHEAD	-	AT&T, CHARTER COMMUNICATIONS, AND TID ELECTRIC
STORM DRAIN	-	CITY OF TURLOCK
TELECOMMUNICATIONS (OH)	-	AT&T
ELECTRICAL	-	TID ELECTRICAL
TELECOMMUNICATIONS	-	CHARTER COMMUNICATIONS
TELECOMMUNICATIONS	-	AT&T
ELECTRICAL (TRAFFIC)	-	CITY OF TURLOCK

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
ASC	ASBESTOS CEMENT
AVE	AVENUE
BC	BEGIN CURVE
Beg	BEGIN
BFC	BOTTOM FACE OF CURB
BOC	BACK OF CURB
BOW	BACK OF WALK
CG	CURB AND GUTTER
CL	CENTERLINE
Conc	CONCRETE
CR	CURB RAMP
CST	CITY STANDARD
DWY	DRIVEWAY
DG	DECOMPOSED GRANITE
EC	END CURVE
Elev	ELEVATION
EP	EDGE OF PAVEMENT
Ex	EXISTING
Exist	EXCAVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
GB	GRADE BREAK
GM	GAS MAIN PIPELINE
GS	GAS SERVICE
GV	GATE VALVE
L	LENGTH
Lt	LEFT
Met	METALLIC (IRON, STEEL, COATED)
Mod	MODIFIED
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
Pave	PAVEMENT
PG	PROPOSED GRADE
PRC	POINT OF REVERSING CURVE
Rem	REMOVE
R/W	RIGHT OF WAY
Reconst	RECONSTRUCT
Rt	RIGHT
SAW	SAWCUT
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHLD	SHOULDER
SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD
SSMH	SANITARY SEWER MANHOLE
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TFC	TOP FACE OF CURB
Var	VARIES, VARIABLE
VG	VALLEY GUTTER
WM	WATER MAIN
WV	WATER VALVE

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: NO SCALE
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORIEGA — No. 91455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK — INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GENERAL NOTES

Sheet 164 of 256 Sheets

GN-2

NOTES:

1. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.

2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE AT CONTRACTOR'S COST.

3. CONTRACTOR SHALL PROVIDE THE AGENCY A MINIMUM OF TWO (2) WEEKS NOTICE PRIOR TO COMMENCING ANY WORK THAT COULD DAMAGE OR DESTROY ANY SURVEY MONUMENTS.

4. CONTRACTOR IS TO USE ONE OR MORE OF THE GPS BASE POINTS TO FIRST ESTABLISH THEIR CONTROL FOR THE PROJECT. CONTRACTOR SHALL CHECK SHOTS TO OTHER PROVIDED CONTROL POINTS TO VERIFY HORIZONTAL AND VERTICAL INFORMATION IS ACCURATE.

HORIZONTAL DATUM

HORIZONTAL DATUM IS BASED ON THE CITY OF TURLOCK G.P.S. CONTROL NETWORK SURVEY FILED IN BOOK 20 OF SURVEYS AT PAGE 56, STANISLAUS COUNTY RECORDS. SAID SURVEY IS BASED ON THE 1983 NORTH AMERICAN DATUM AND ADJUSTMENT AS SHOWN ON THE FACE OF SAID SURVEY. POINTS H12 AND L9 AS SHOWN ON THE SURVEY WERE USED AS THE BASE CONTROL FOR THIS PROJECT.

COORDINATE SYSTEM

THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE III.

VERTICAL DATUM

ELEVATIONS BASED ON THE CITY OF TURLOCK BENCHMARK SYSTEM.

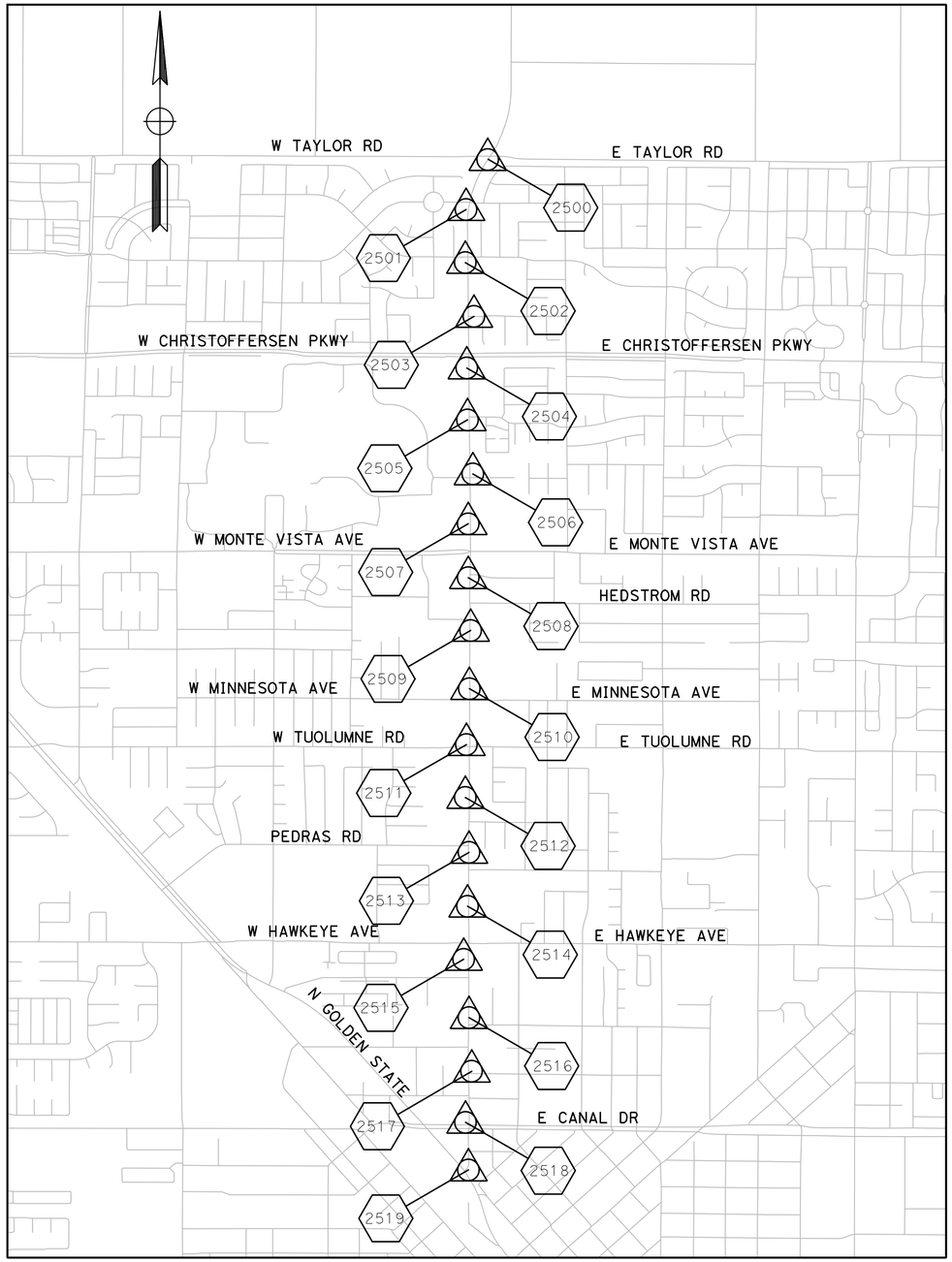
LEGEND:

△ CONTROL POINT LOCATION ⬡ No CONTROL POINT NUMBER

PROJECT VERTICAL BENCHMARKS		
BENCHMARK ID	ELEVATION	DESCRIPTION
13-1-3	110.059	FOUND BRASS PLUG NW CORNER ON EAST MARSHALL AT DAUENBERGER ROAD
14-210	101.168	FOUND BRASS PLUG NE CORNER ON GEER AT GOLDEN STATE BOULEVARD
22-4-2	98.282	FOUND BRASS PLUG SW CORNER ON ORANGE AT HIGH STREET
24-3-1	105.563	FOUND BRASS PLUG SE CORNER ON SOUTH BERKELEY AT EAST AVENUE

GPS BASE POINT TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2004921.432	6464890.307	105.949	SVRB-SET 5\8IN
1100	2013970.675	6460372.077	107.404	SVRB-FND 5\8IN
1101	2011319.466	6456042.177	101.429	SVRB-FND 5\8IN

SURVEY CONTROL TABLE				
CONTROL PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
2500.0000	2018038.536	6460719.948	112.275	SVCP NW COR STOP BAR
2501.0000	2017358.041	6460426.105	112.230	SVCP ARROW TIP
2502.0000	2016637.218	6460415.718	109.359	SVCP ARROW TIP
2503.0000	2015903.793	6460534.171	108.450	SVCP SW COR STOP BAR
2504.0000	2015201.276	6460434.860	108.803	SVCP ARROW TIP
2505.0000	2014495.201	6460444.797	108.107	SVCP SE INSIDE COR PARKING +
2506.0000	2013758.496	6460518.083	106.912	SVCP SW COR HELMET
2507.0000	2013080.372	6460456.500	107.261	SVCP SE INSIDE COR PARKING +
2508.0000	2012345.971	6460455.737	106.393	SVCP SW COR OF 5
2509.0000	2011627.245	6460489.012	106.501	SVCP SW COR WS
2510.0000	2010834.928	6460470.848	105.765	SVCP NE COR WS
2511.0000	2010073.397	6460430.185	103.965	SVCP SE INSIDE COR XWALK STRIPE
2512.0000	2009353.420	6460416.580	103.537	SVCP SOUTH MOST ARROW TIP
2513.0000	2008605.696	6460466.407	105.278	SVCP NE COR XWALK STRIPE
2514.0000	2007872.439	6460446.180	105.613	SVCP SE WS E BOUND
2515.0000	2007149.169	6460393.214	103.063	SVCP ARROW TIP
2516.0000	2006355.974	6460464.836	103.069	SVRB - D10 5/8" RBR IN PVC WELL WITH WATER VALVE COVER
2517.0000	2005625.991	6460502.255	100.925	SVCP NE COR XWALK STRIPE
2518.0000	2004930.450	6460418.213	102.465	SVCP SW XWALK STRIPE
2519.0000	2004280.335	6460458.623	101.401	SVCP MAG NW COR STRIPE



SURVEY POINTS MAP

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=1000'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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SCALE
1000 0 1000 2000

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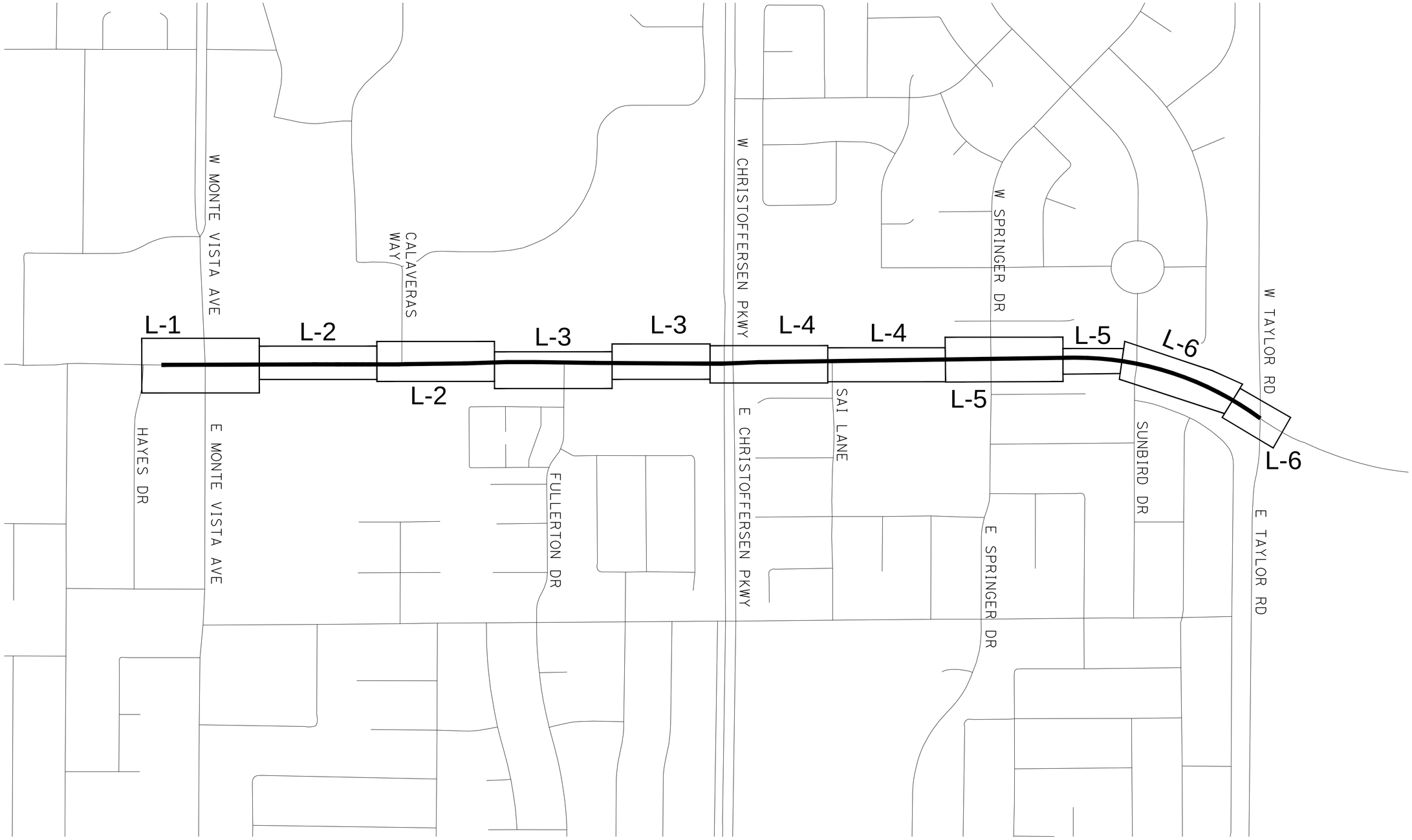
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PROJECT CONTROL

PC-1



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=250'
DATE:	6/08/2026
JOB NO.:	23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE
250 0 250 500

REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/22
CIVIL
STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
KEY MAP

Sheet 166 of 256 Sheets

K-1

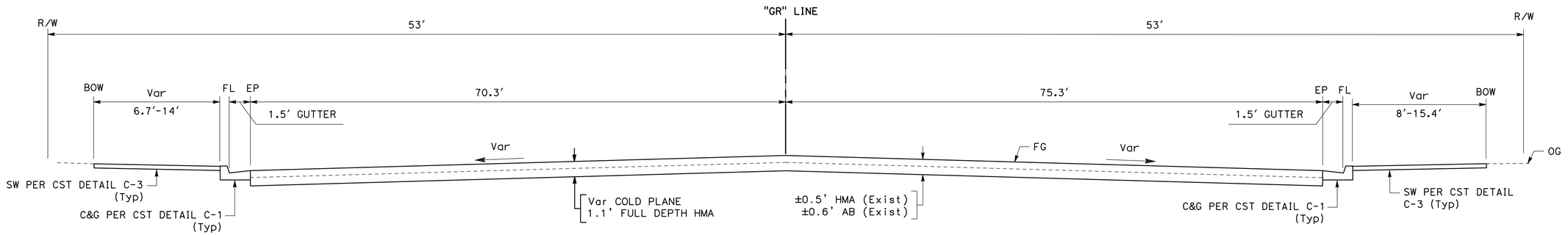
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA SEE RIGHT OF WAY RECORD MAPS AT CITY OF TURLOCK OFFICE.
2. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. SUBGRADE CROSS SLOPE TO BE THE SAME AS TYPICAL SURFACE CROSS SLOPE UNLESS OTHERWISE NOTED.
4. FOR LOCATIONS OF PAVEMENT REHABILITATION, SEE LAYOUT SHEETS.
5. CONSTRUCT 6" CURB AND GUTTER PER CITY STD C-1, AND DRIVE-OVER CURB AND GUTTER PER DETAILS ON CD-3, FOR LOCATIONS AND LIMITS OF CURB AND GUTTER REPLACEMENT; SEE LAYOUT SHEETS.
6. CONSTRUCT CONCRETE SIDEWALK PER CITY STD C-3. FOR LOCATIONS AND LIMITS OF SIDEWALK REPLACEMENT, SEE LAYOUT SHEETS.
7. PAVEMENT SHALL BE REPLACED AS SHOWN. ON LAYOUTS CROSS SLOPE OF PAVEMENT SHALL MAINTAIN POSITIVE DRAINAGE. THERE SHALL BE NO LOW POINTS COLLECTING SURFACE RUNOFF.
8. EXISTING CURB, GUTTER, SIDEWALK, AND DRIVEWAY SHALL BE PROTECTED IN PLACE, UNLESS OTHERWISE NOTED ON THE PLANS.
9. DIMENSIONS SHOWN IN TYPICAL SECTIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS WITH THE ENGINEER IN THE FIELD.
10. REMOVAL OF EXISTING PAVEMENT INCLUDES ASPHALT, AGGREGATE BASE, AND SUB BASE AS NECESSARY TO ACHIEVE REQUIRED REMOVAL DEPTH.
11. WHERE THE ENTIRE EXISTING ASPHALT LAYER IS REMOVED, COMPACT AND PREPARE BASE/SUBGRADE PRIOR TO PLACING HMA.
12. SEE PLANS FOR PROPOSED PAVEMENT TREATMENT WITHIN INTERSECTION GRADING LIMITS, WHERE APPLICABLE.
13. WHERE NECESSARY, EMBANKMENT SLOPES (4:1 OR FLATTER) SHALL BE USED TO CONFORM TO EXISTING GROUND ELEVATIONS BEYOND THE PROPOSED BACK OF WALK OR BACK OF CURB.
14. AS SHOWN ON THE DM SHEETS AND THE TYPICAL CURB, GUTTER, AND SIDEWALK REMOVAL DETAIL (DM-1), PROVIDE A 2-FOOT-WIDE SAWCUT STRIP ADJACENT TO THE PROPOSED CURB AND GUTTER, MEASURED FROM THE PROPOSED GUTTER LIP (NOT THE EXISTING GUTTER LIP). FOR DETAILS REGARDING SAWCUTS AT MEDIANS, SEE CONSTRUCTION DETAIL SHEETS.
15. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
16. EXISTING PAVEMENT DEPTHS ARE AVERAGES BASED ON CORING PAVEMENT RESULTS. REFER TO THE GEOTECHNICAL REPORT FOR EXACT EXISTING PAVEMENT SECTION DEPTHS ALONG THE CORRIDOR.

DESIGN DESIGNATION:

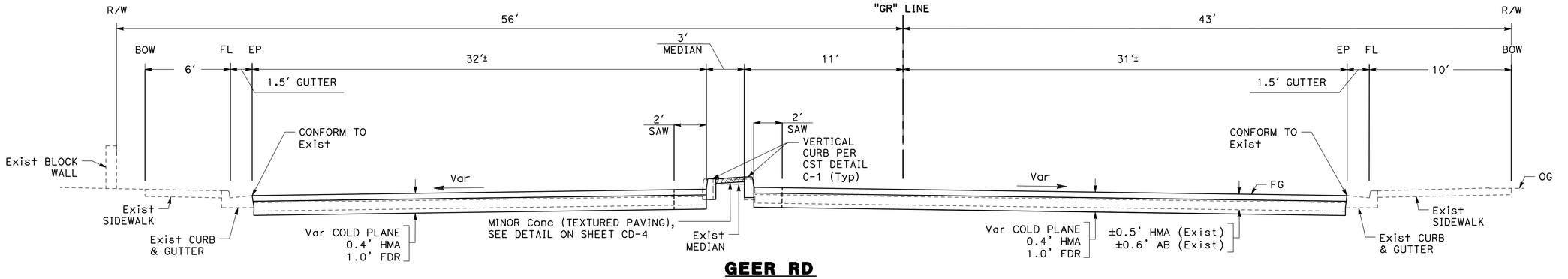
R-VALUE = 41 - GEER RD: MONTE VISTA AVE TO TAYLOR RD

TI-VALUE = 10 - GEER RD
11 - GEER RD / MONTE VISTA AVE INTERSECTION



GEER RD / MONTE VISTA AVE INTERSECTION

"GR" 94+59.26 TO "GR" 96+52.81



GEER RD
HAYES DR TO MONTE VISTA AVE

"GR" 93+51.03 TO "GR" 94+59.26

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=4'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
4 0 4 8

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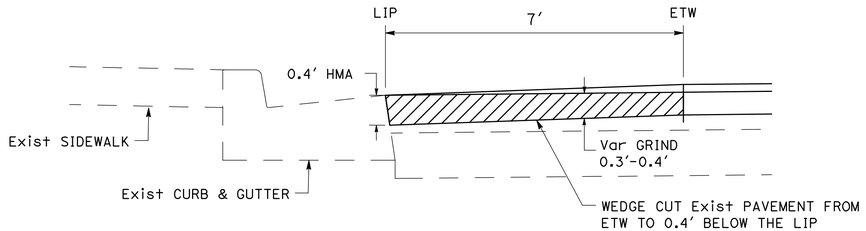
CITY OF TURLOCK INC. 1908

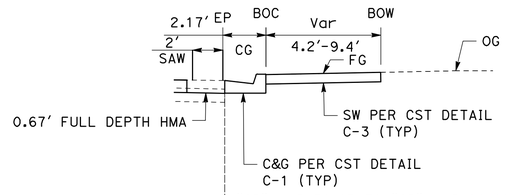
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
TYPICAL SECTIONS

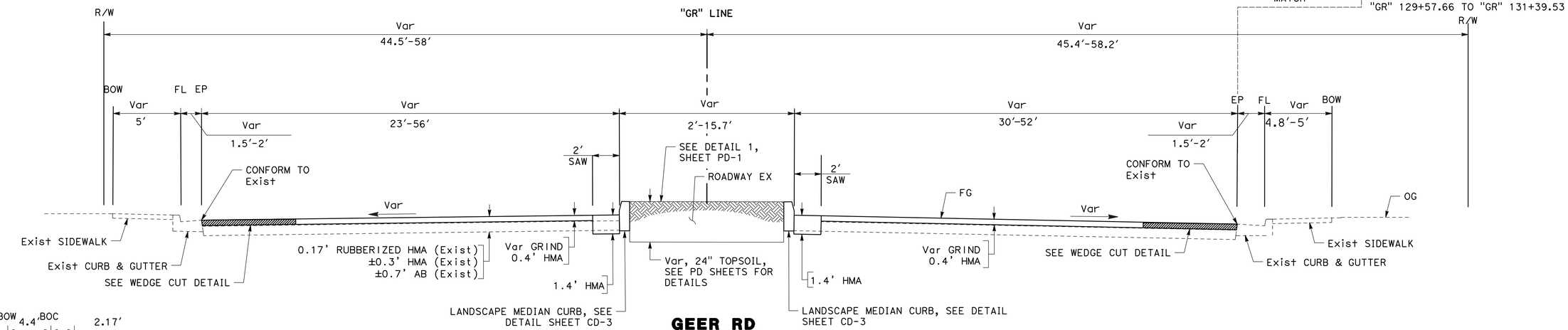
X - 1



WEDGE CUT DETAIL

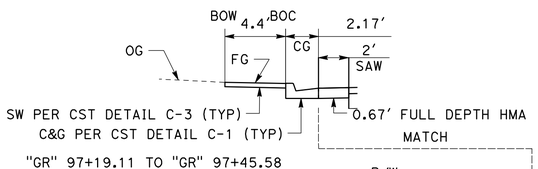
NOT TO SCALE

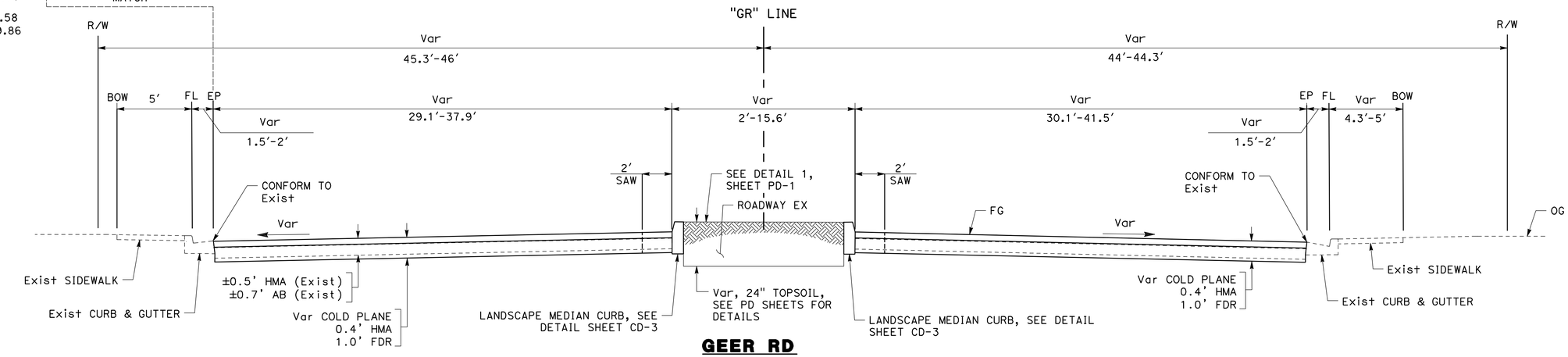




GEER RD
CALEVERAS WAY TO TAYLOR RD

"GR" 109+00.00 TO "GR" 150+82.00





GEER RD
MONTE VISTA AVE TO CALAVERAS WAY

"GR" 96+52.81 TO "GR" 109+00.00

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=4'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE 4 0 4 8

REGISTERED PROFESSIONAL ENGINEER — ADRIAN A. MORIEGA — No. C 41554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
TYPICAL SECTIONS

Sheet 168 of 256 Sheets

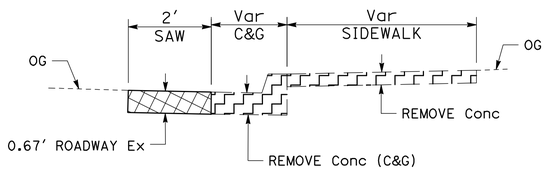
X-2

LEGEND:

- ROADWAY EXCAVATION
- REMOVE CONCRETE (SIDEWALK, MEDIAN, AND VALLEY GUTTER)
- CLEARING AND GRUBBING
- COLD PLANE AC PAVEMENT (Var DEPTH)
- REMOVE CONCRETE (CURB, CURB AND GUTTER)
- REMOVE FENCE
- REMOVE TREE

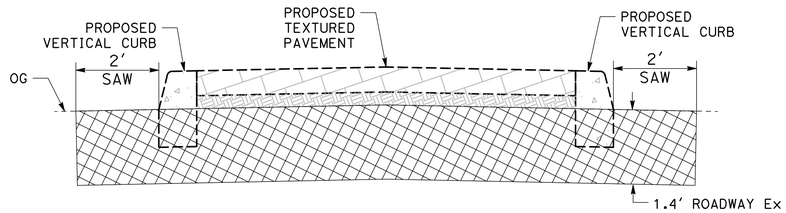
NOTES:

1. CLEARING AND GRUBBING AS SHOWN IS APPROXIMATE.
2. SEE LAYOUT SHEETS FOR COLD PLANE DEPTH LIMITS.
3. CONTRACTOR TO NOTIFY PROPERTY OWNERS IN ADVANCE OF WORK TO SALVAGE EXISTING LANDSCAPING.
4. ROADWAY EXCAVATION FOR INTERSECTIONS SHALL BE TO A DEPTH OF 1.1 FEET.



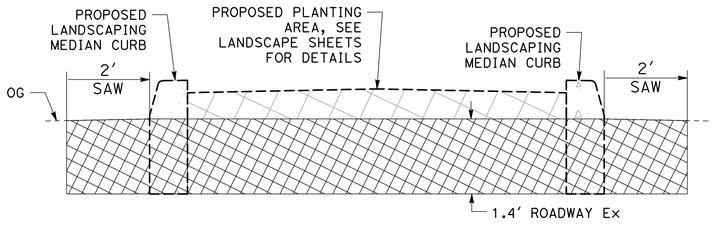
SIDEWALK DEMOLITION AND ROADWAY EXCAVATION DETAIL

NO SCALE



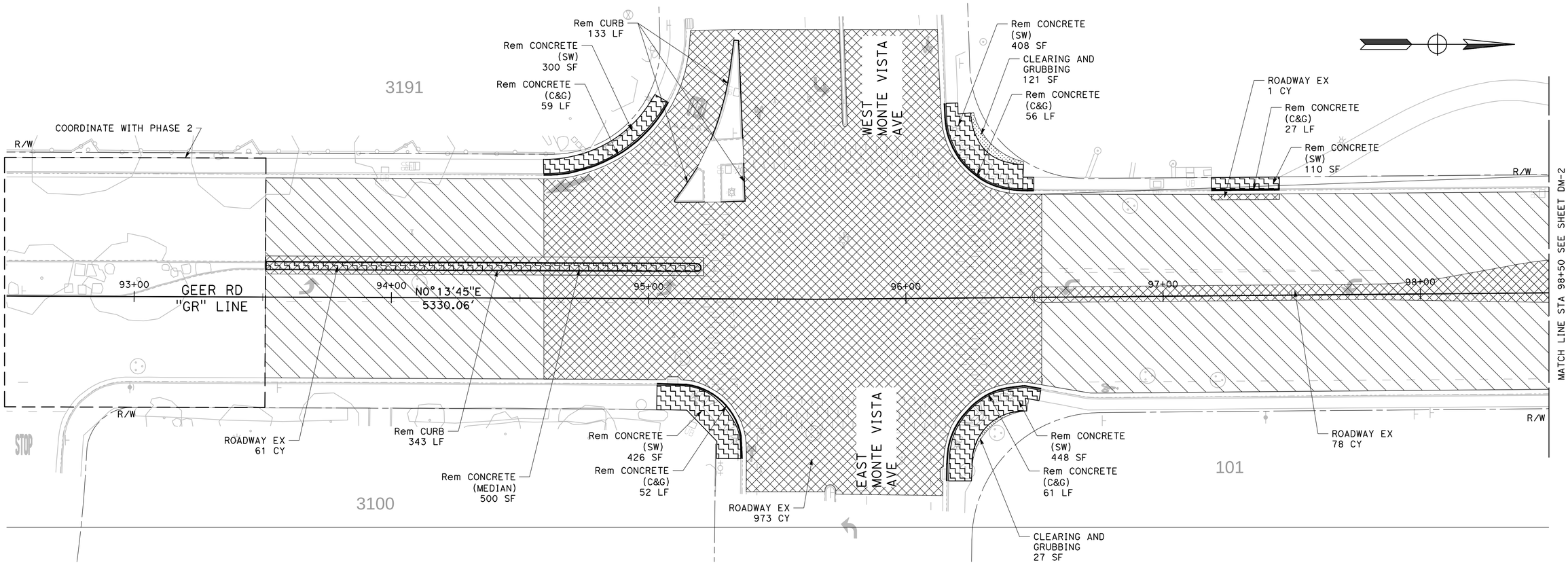
ROADWAY EXCAVATION DETAIL FOR PROPOSED TEXTURE PAVED MEDIAN

NO SCALE



ROADWAY EXCAVATION DETAIL FOR PROPOSED LANDSCAPED MEDIAN

NO SCALE



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER — NICHOLAS A. MORIEGA — No. 84554 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
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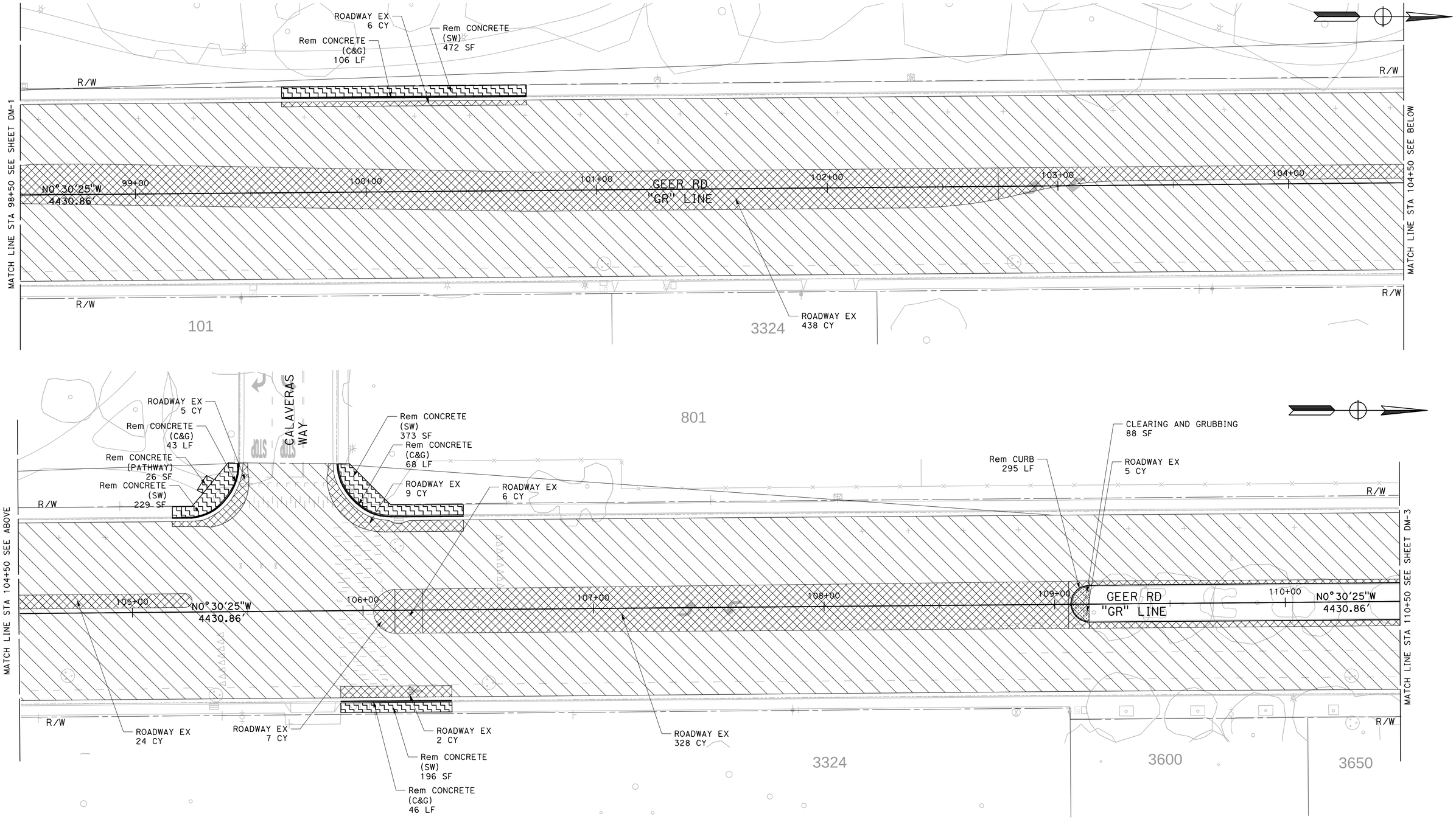
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DEMOLITION PLANS



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. TORIEGA
No. 81555
6/30/26
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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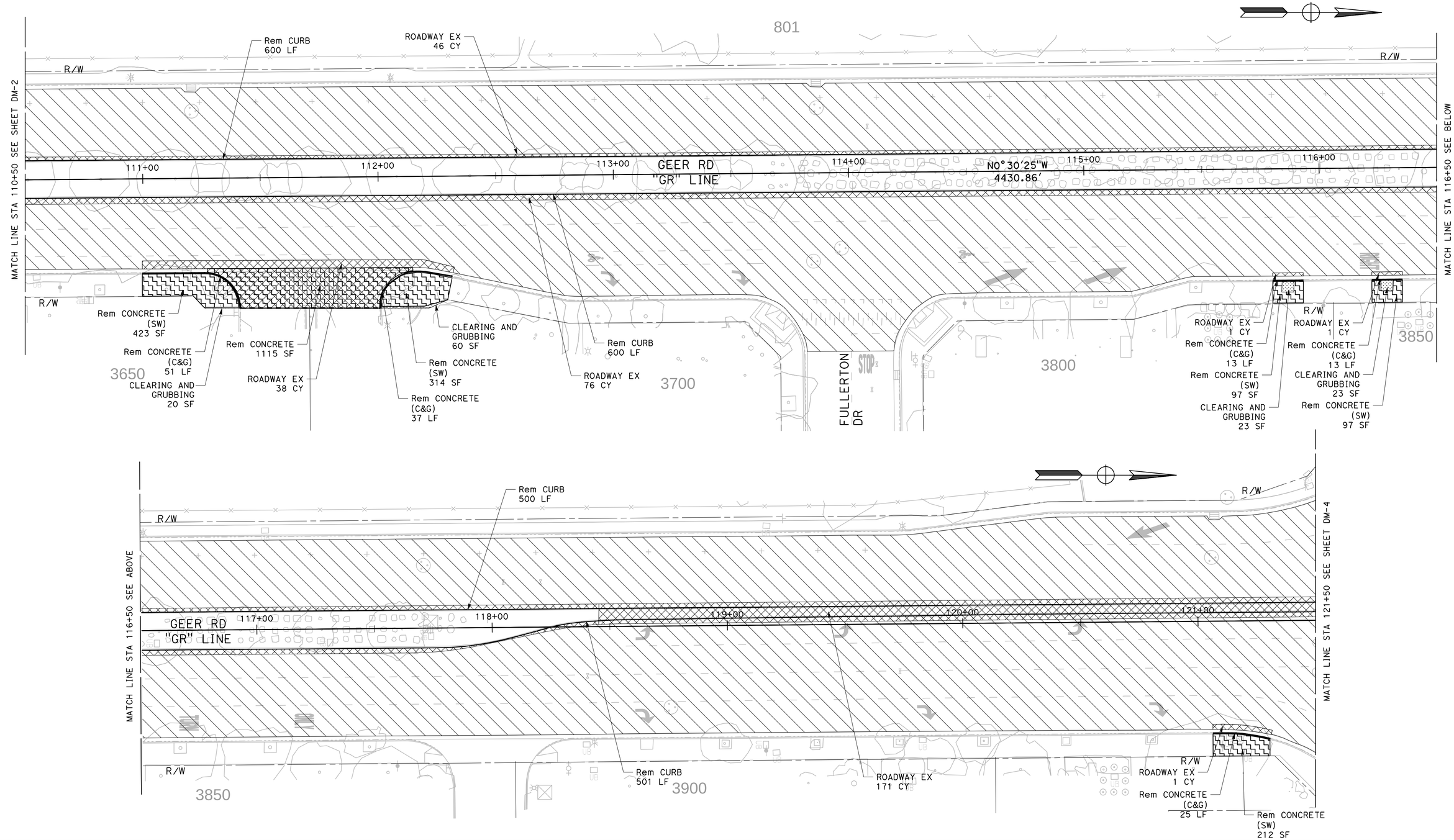
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DEMOLITION PLANS

DM-2



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. TORIEGA
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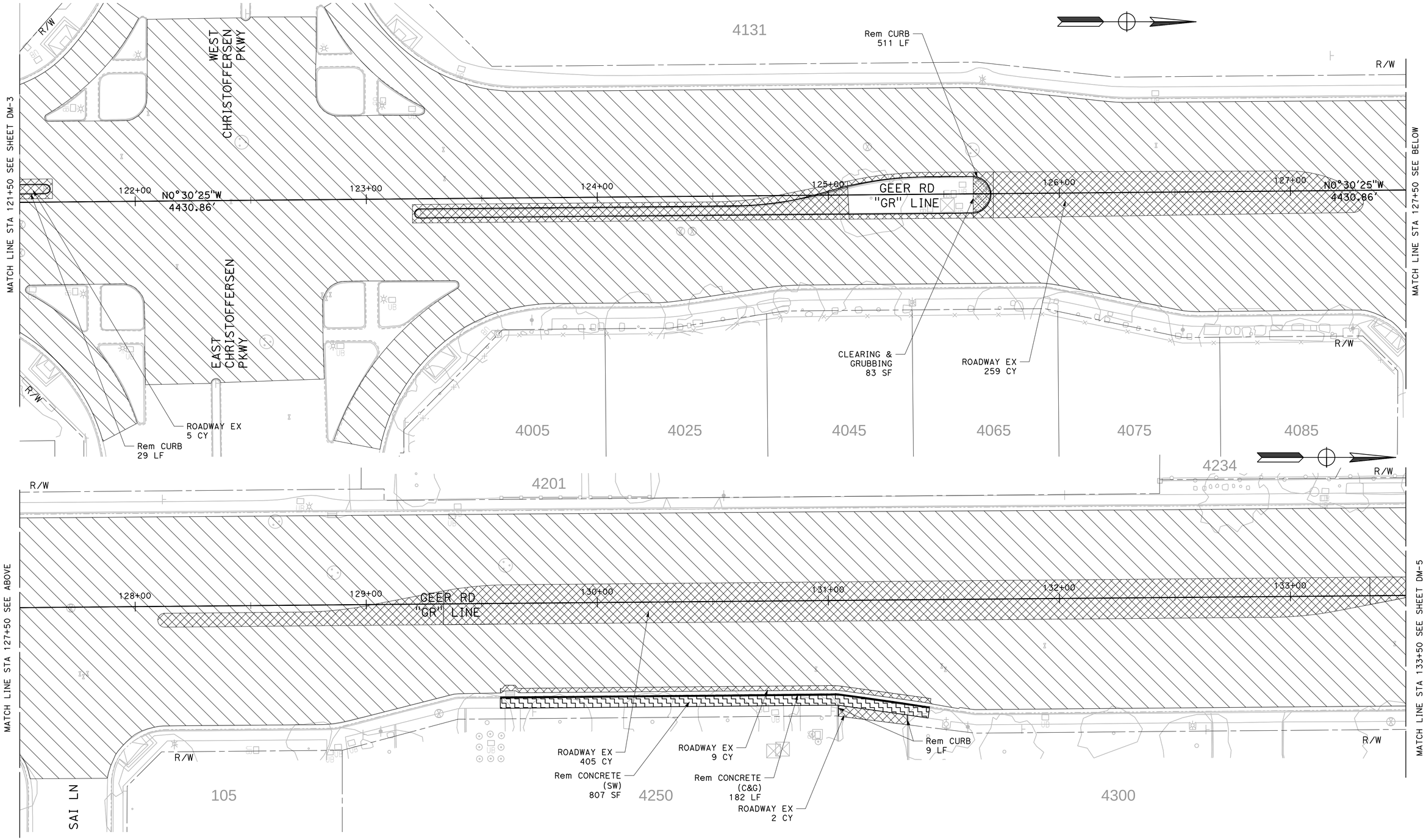
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DEMOLITION PLANS

Sheet 171 of 256 Sheets

DM-3



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
JESSICA A. TORIEGA
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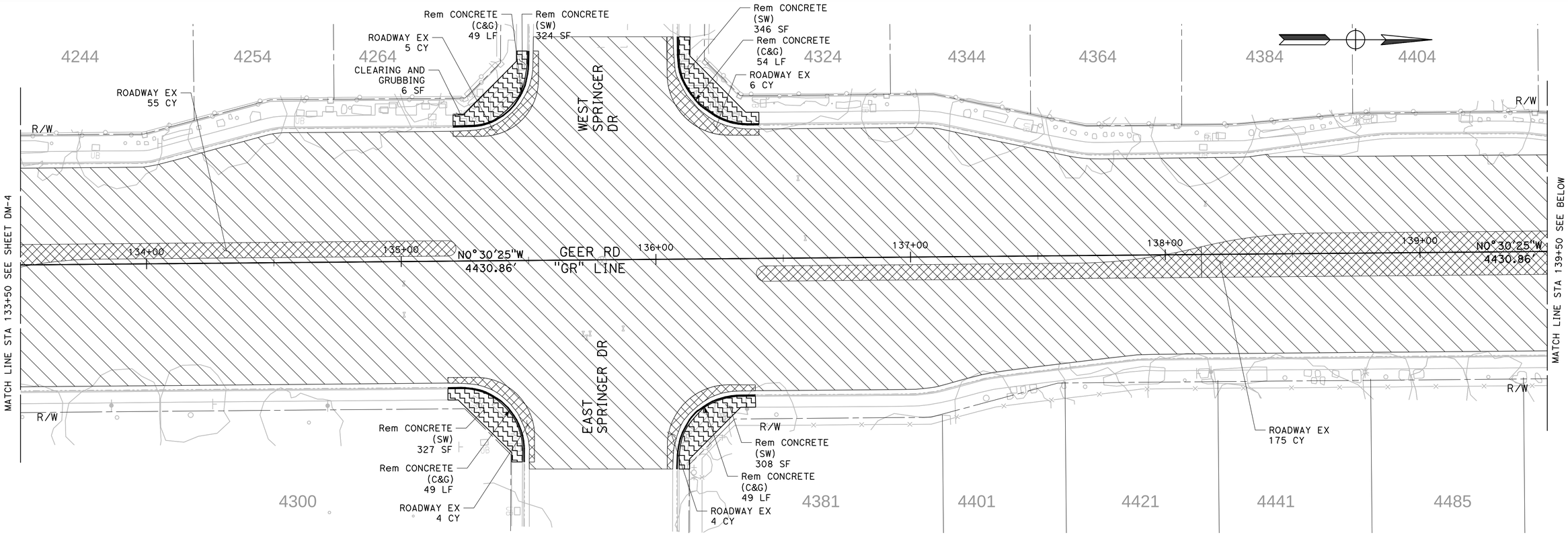
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
DEMOLITION PLANS

Sheet 172 of 256 Sheets

DM-4



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER — DOUGLAS A. TORIGIAN — No. 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
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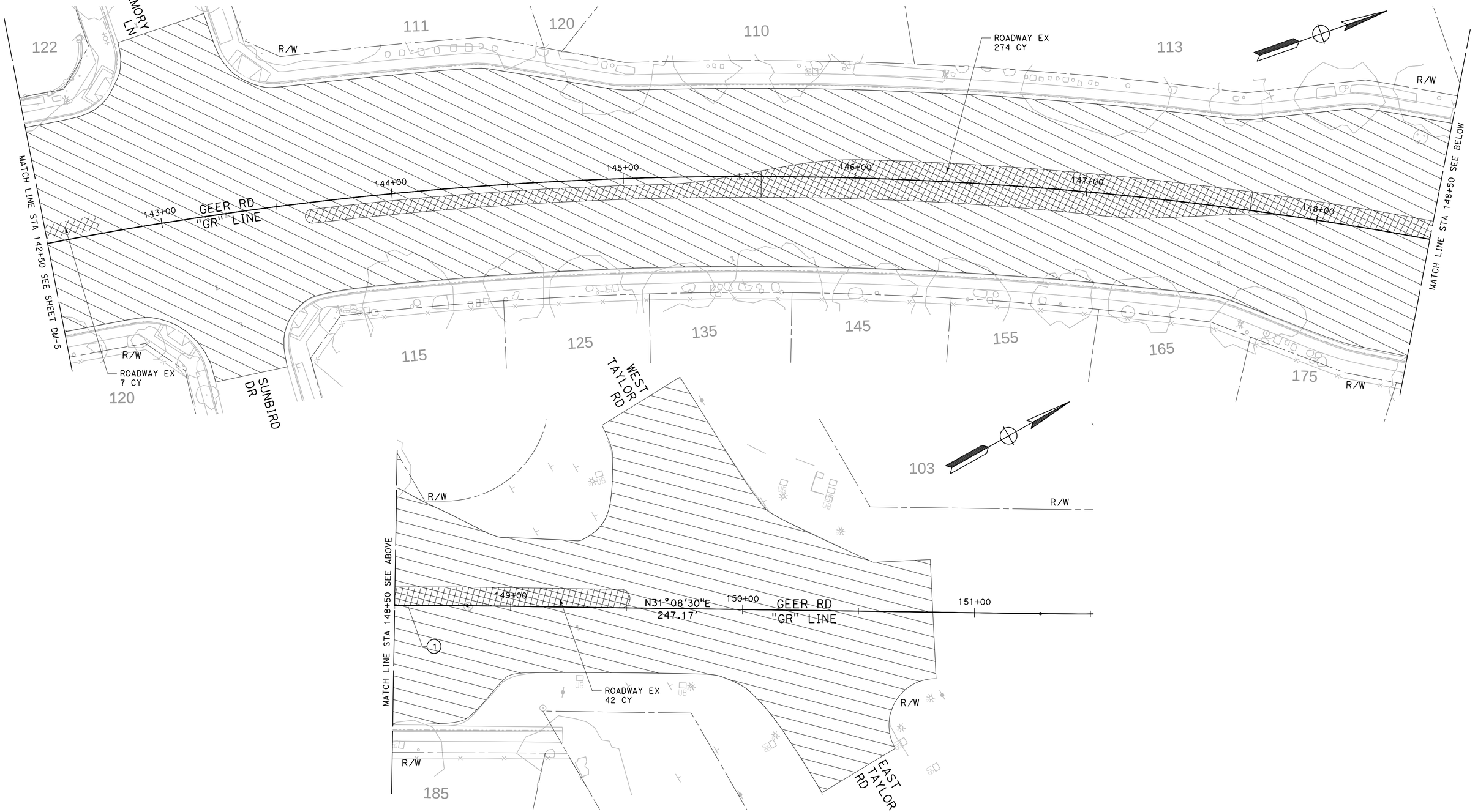
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DEMOLITION PLANS

DM-5



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
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SCALE
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REGISTERED PROFESSIONAL ENGINEER
JONATHAN A. HORIEGA
No. 84558
exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DEMOLITION PLANS

Sheet 13 of 256 Sheets

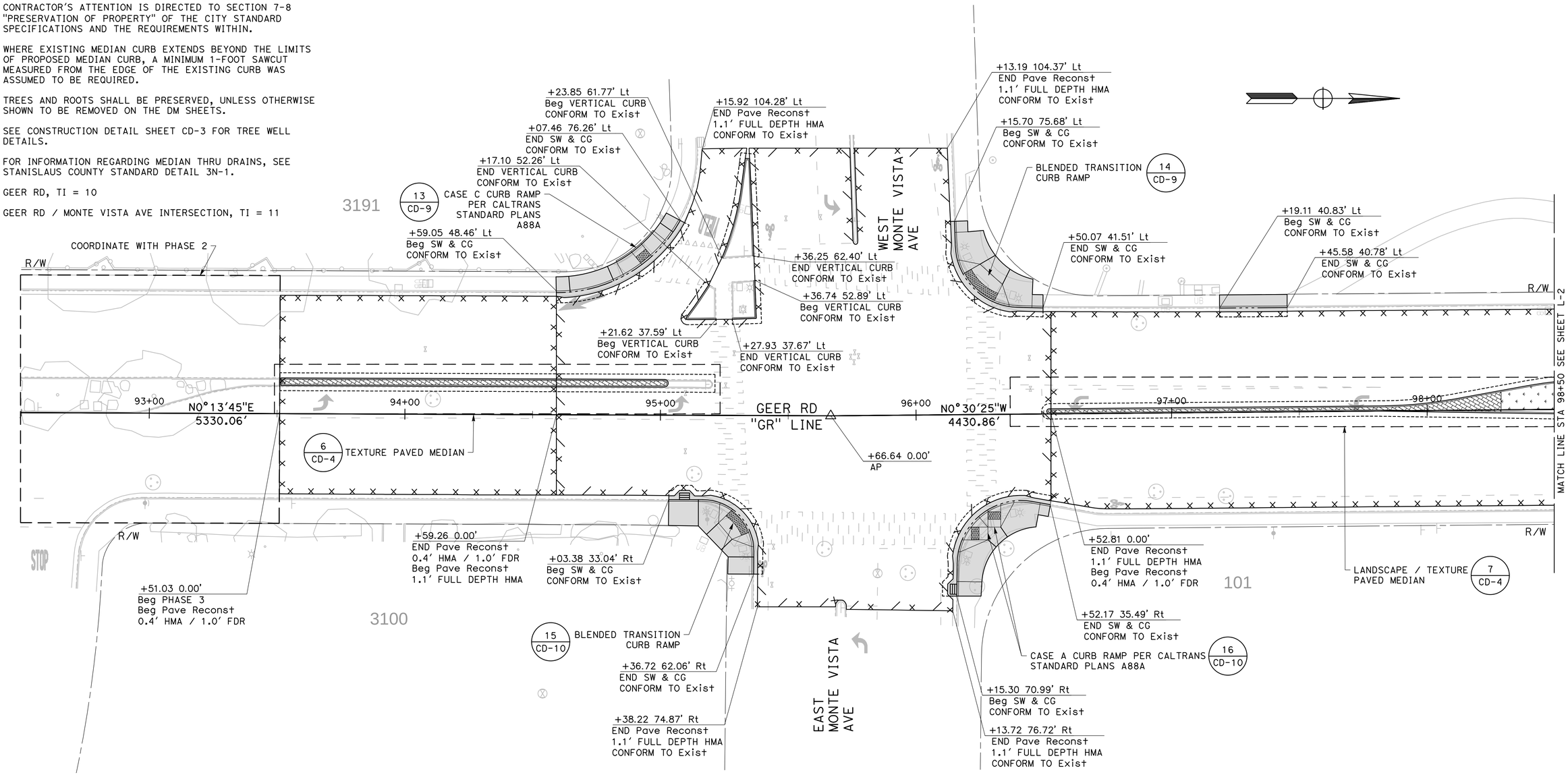
DM-6

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. ALL BUS SHELTERS AND ACCOMPANYING FACILITIES SHALL BE RESET IN PLACE AT EXISTING BUS STOP LOCATIONS WHERE NEW CONCRETE WORK IS PERFORMED.
3. FOR ACCURATE RIGHT OF WAY INFORMATION, CONTACT ENGINEERING AT CITY OF TURLOCK.
4. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
5. WHERE EXISTING MEDIAN CURB EXTENDS BEYOND THE LIMITS OF PROPOSED MEDIAN CURB, A MINIMUM 1-FOOT SAWCUT MEASURED FROM THE EDGE OF THE EXISTING CURB WAS ASSUMED TO BE REQUIRED.
6. TREES AND ROOTS SHALL BE PRESERVED, UNLESS OTHERWISE SHOWN TO BE REMOVED ON THE DM SHEETS.
7. SEE CONSTRUCTION DETAIL SHEET CD-3 FOR TREE WELL DETAILS.
8. FOR INFORMATION REGARDING MEDIAN THRU DRAINS, SEE STANISLAUS COUNTY STANDARD DETAIL 3N-1.
9. GEER RD, TI = 10
10. GEER RD / MONTE VISTA AVE INTERSECTION, TI = 11

LEGEND:

- MINOR CONCRETE (CURB, GUTTER, SIDEWALK, & CURB RAMP)
- MINOR CONCRETE (DWY APPROACH)
- DETECTABLE WARNING SURFACE
- HMA MISC AREA (DWY CONFORM)
- LANDSCAPING (SEE LANDSCAPING SHEETS)
- MINOR CONC (TEXTURE PAVING)
- GRIND OVERLAY WITH Var GRIND / 0.40' HMA
- RECONSTRUCT WITH 0.4' HMA / 1.0' FDR
- RECONSTRUCT WITH 1.1' FULL DEPTH HMA
- SAWCUT
- (X) CURVE DATA
- △ ANGLE POINT
- ∘ BC/EC/PRC



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER EDUARDO A. MORIEGA No. C 61458 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
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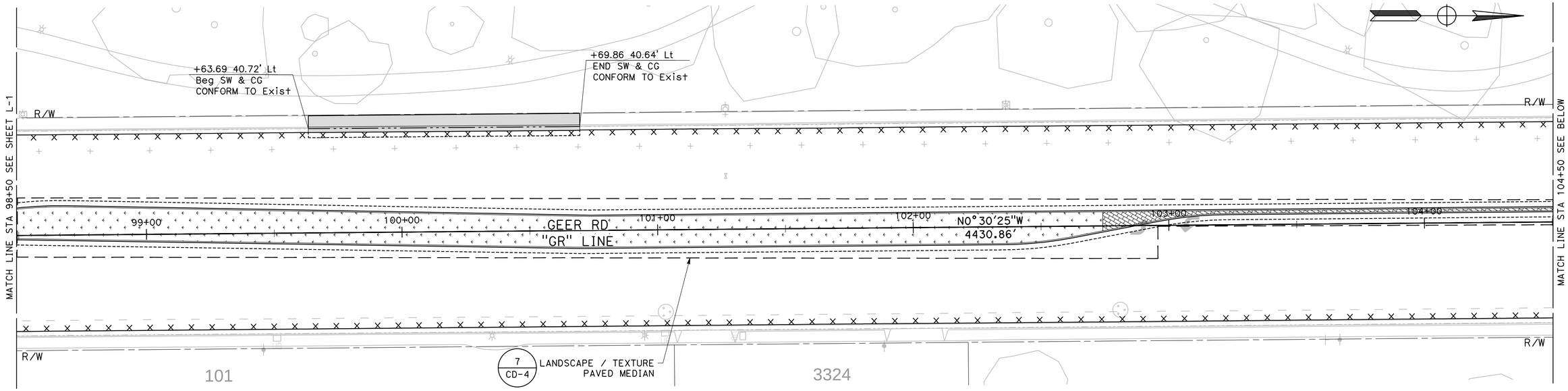
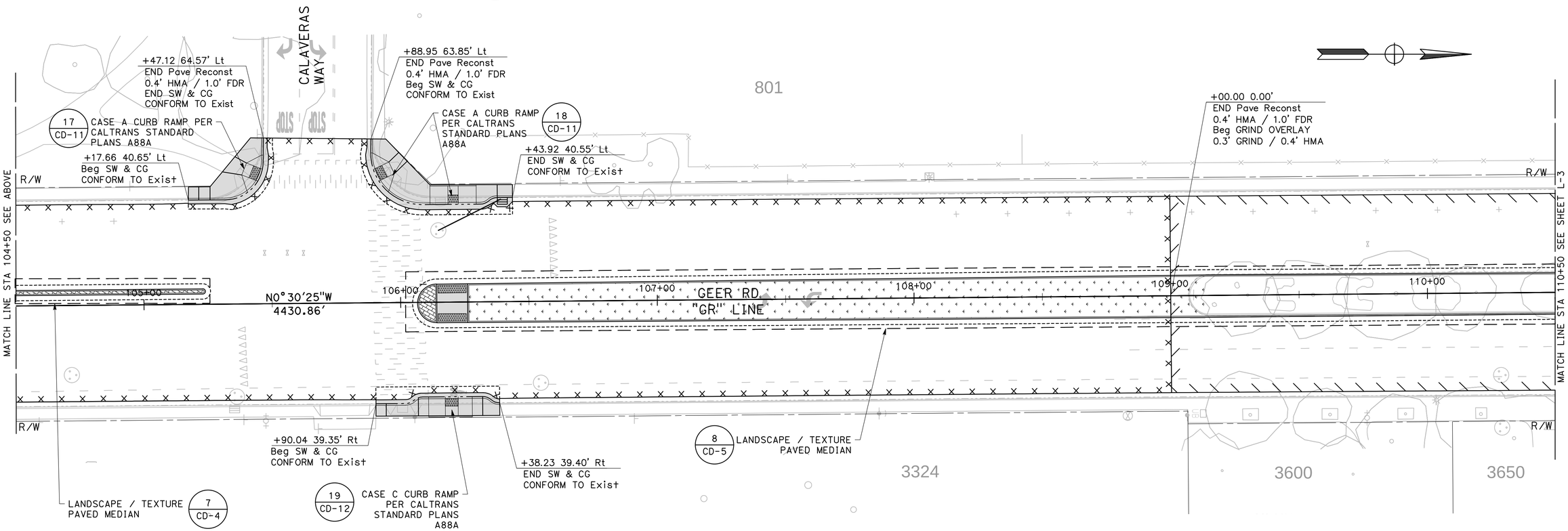
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
LAYOUTS





DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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SCALE
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REGISTERED PROFESSIONAL ENGINEER
JONATHAN A. MORIEGA
No. 84168
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
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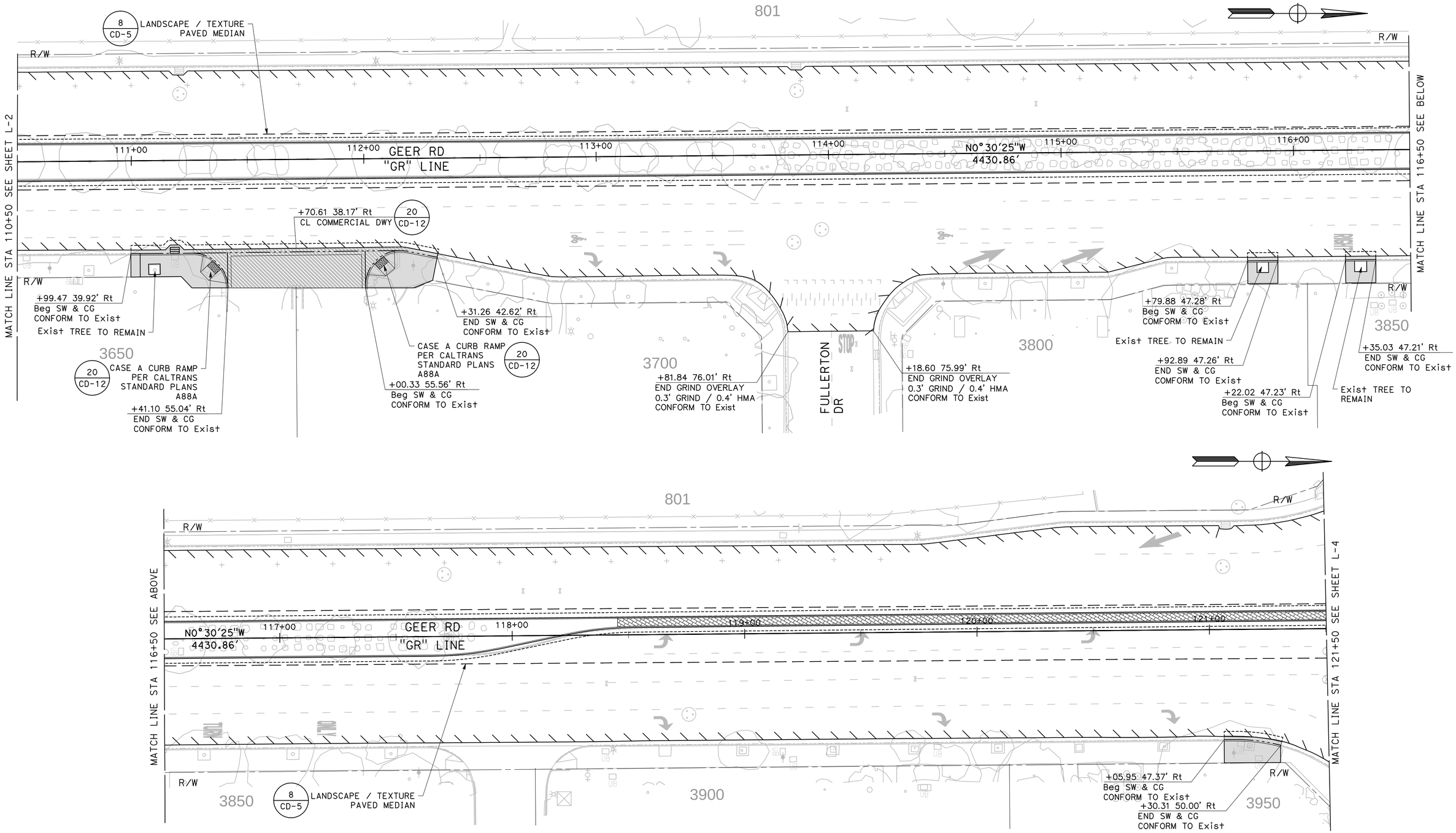
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
LAYOUTS



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
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SCALE
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REGISTERED PROFESSIONAL ENGINEER
EDUARDO A. ORIEGA
No. 81555
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
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SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
LAYOUTS

Sheet 177 of 256 Sheets

L-3

+88.72 88.86' Lt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+05.88 78.70' Lt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+96.75 91.61' Lt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+79.00 79.12' Lt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

WEST CHRISTOFFERSEN PKWY

R/W

4131

MATCH LINE STA 121+50 SEE SHEET L-3

122+00 N0°30'25"W 4430.86' 123+00 GEER RD "GR" LINE 124+00 125+00 126+00 127+00

LANDSCAPE / TEXTURE PAVED MEDIAN (8 / CD-5)

EAST CHRISTOFFERSEN PKWY

+03.73 79.44' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+85.09 103.85' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+81.14 77.70' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+04.97 108.34' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

4005 4025 4045 4065 4075 4085

9 / CD-6 LANDSCAPE / TEXTURE PAVED MEDIAN

MATCH LINE STA 127+50 SEE BELOW

4201

10 / CD-6 LANDSCAPE / TEXTURE PAVED MEDIAN

4234

MATCH LINE STA 127+50 SEE ABOVE

N0°30'25"W 4430.86' 128+00 129+00 130+00 GEER RD "GR" LINE 131+00 132+00 133+00

MATCH LINE STA 133+50 SEE SHEET L-5

SAI LN

+87.23 74.25' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+53.86 74.15' Rt
END GRIND OVERLAY
0.3' GRIND / 0.4' HMA
CONFORM TO Exist

+55.70 40.35' Rt
Beg SW & CG
CONFORM TO Exist

105 4250

25 / CD-15

+19.76 42.90' Rt
CL COMMERCIAL DWY

4300

+43.49 46.33' Rt
END SW & CG
CONFORM TO Exist

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JORGE A. ORIEGA No. 61556 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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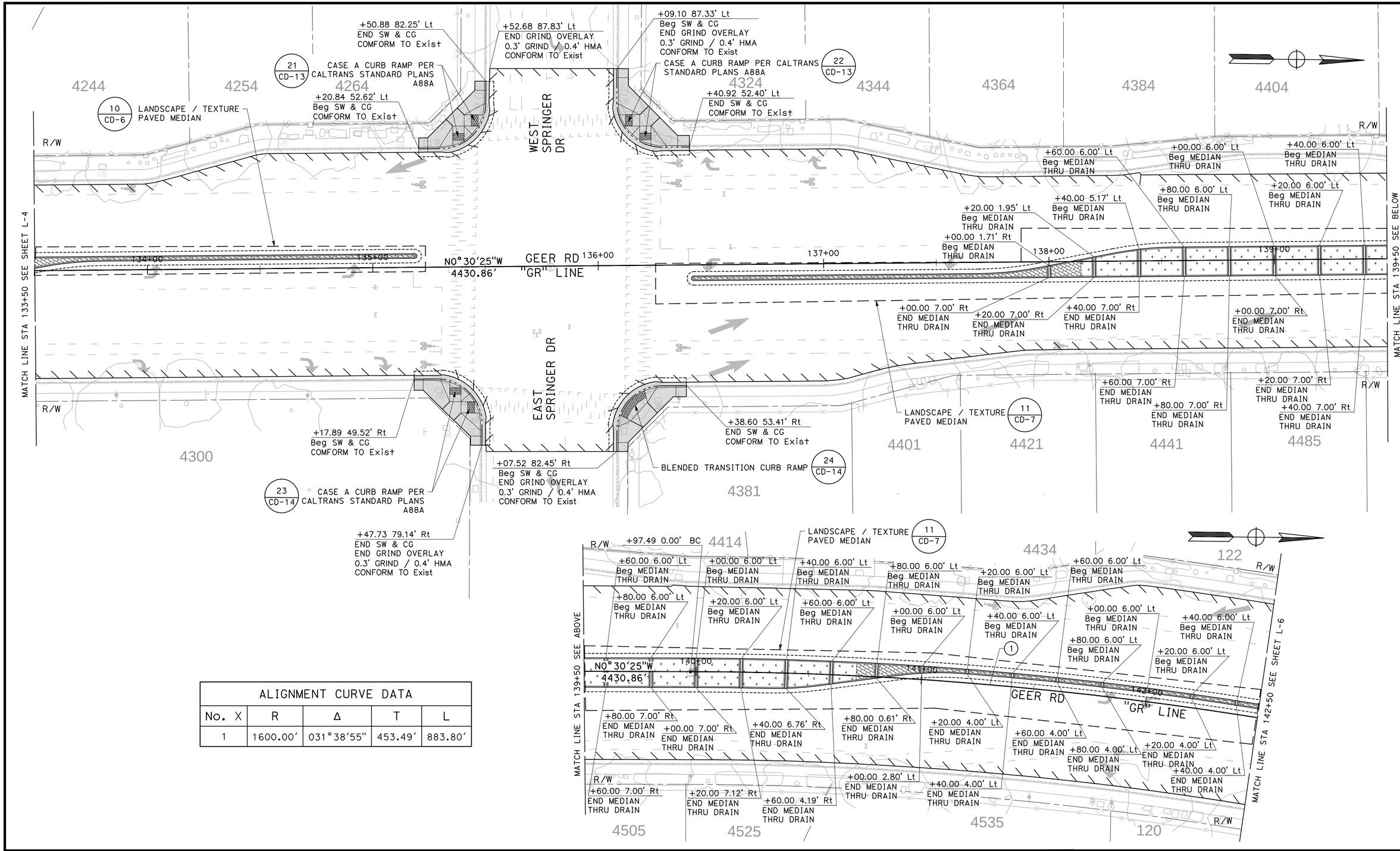
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
LAYOUTS

Sheet 178 of 256 Sheets

L-4



ALIGNMENT CURVE DATA				
No. X	R	Δ	T	L
1	1600.00'	031°38'55"	453.49'	883.80'

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

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REGISTERED PROFESSIONAL ENGINEER JORDAN A. MORIEGA No. 84456 Exp. 6/30/2027 CIVIL STATE OF CALIFORNIA

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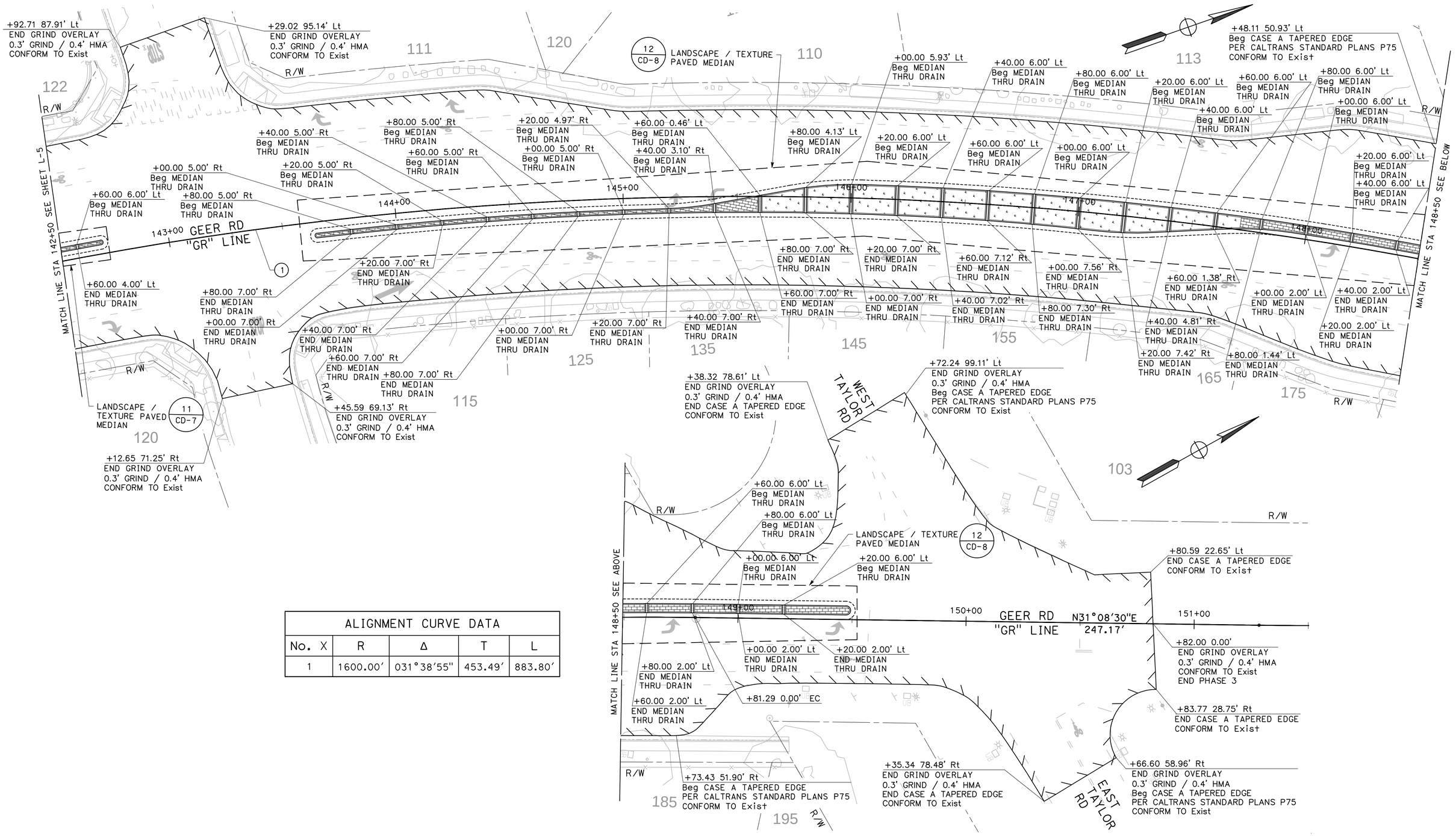
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
LAYOUTS

Sheet 179 of 256 Sheets

L - 5



ALIGNMENT CURVE DATA				
No. X	R	Δ	T	L
1	1600.00′	031°38′55"	453.49′	883.80′

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. ORIEGA
No. 84168
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES
DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
LAYOUTS

Sheet 180 of 256 Sheets

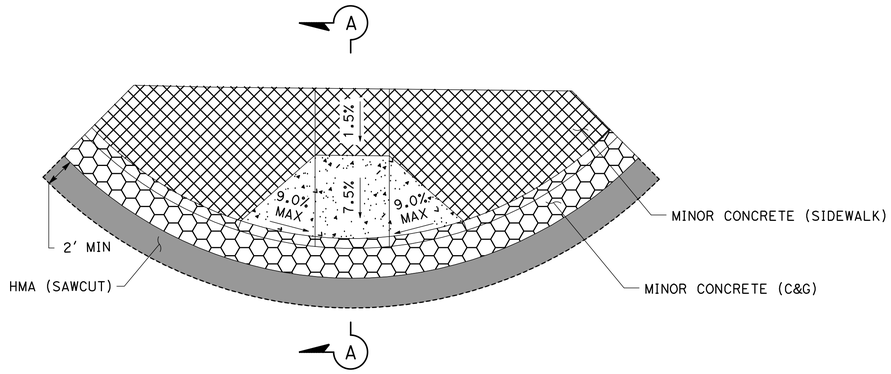
L - 6

LEGEND:

- MINOR CONCRETE (CURB RAMP)
- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- HMA CONFORM (DWY)
- HMA (SAWCUT)

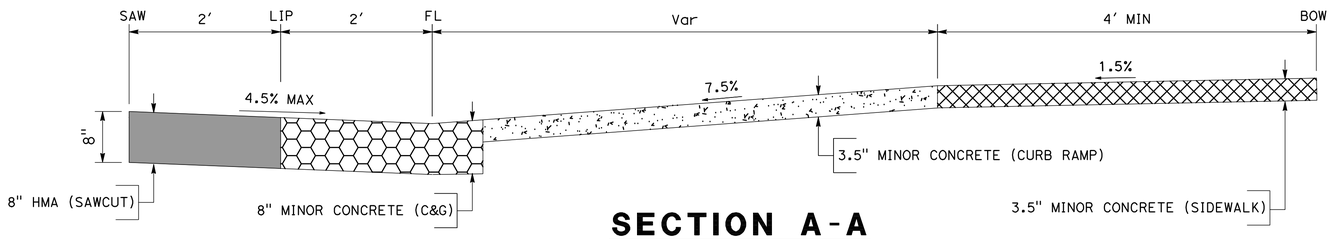
NOTES:

1. FOR INFORMATION NOT SHOWN, SEE CALTRANS STANDARD PLANS A88A.



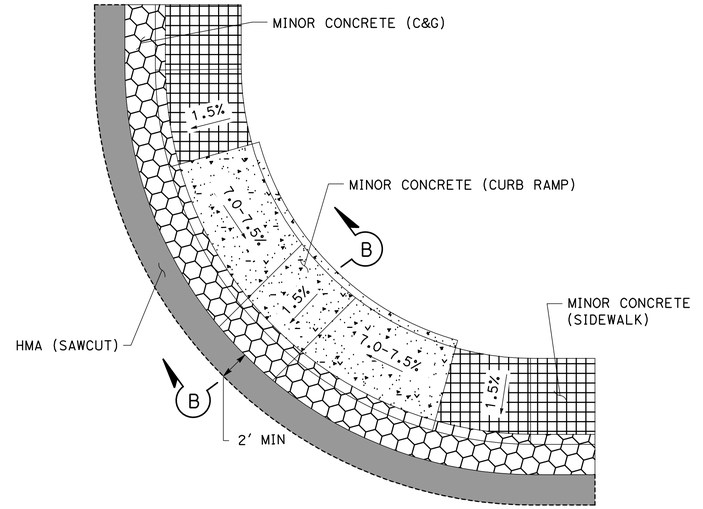
CURB RAMP TYPE A TYPICAL DETAIL

NO SCALE



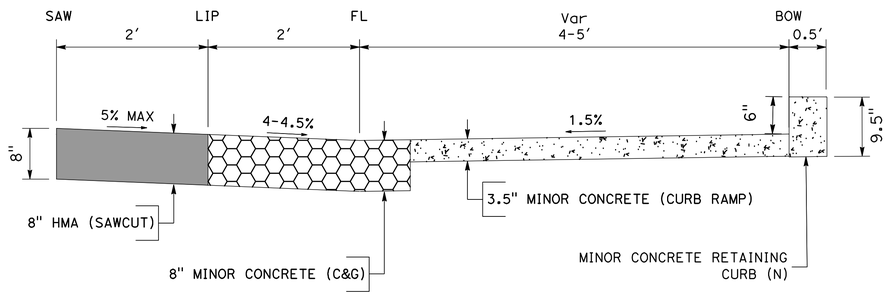
SECTION A-A

NO SCALE



CURB RAMP TYPE C TYPICAL DETAIL

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JORGE A. ORIEGA — No. 61556 — CIVIL — STATE OF CALIFORNIA — 6/30/22

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 181 of 256 Sheets

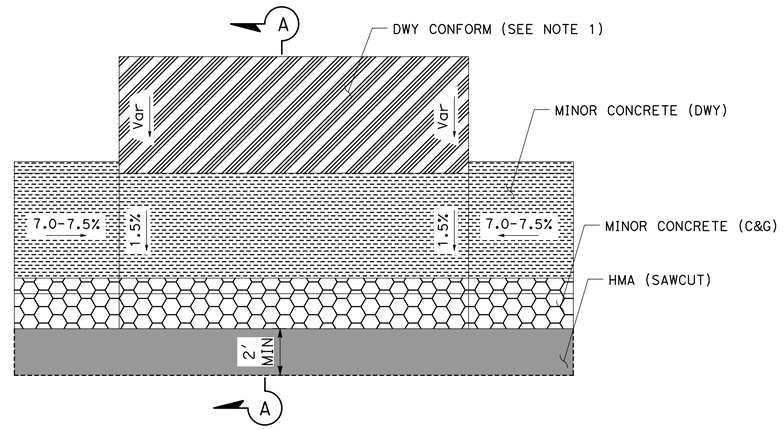
CD-1

LEGEND:

- MINOR CONCRETE (DWY)
- MINOR CONCRETE (C&G)
- MINOR CONCRETE (SIDEWALK)
- DWY CONFORM
- HMA (SAWCUT)

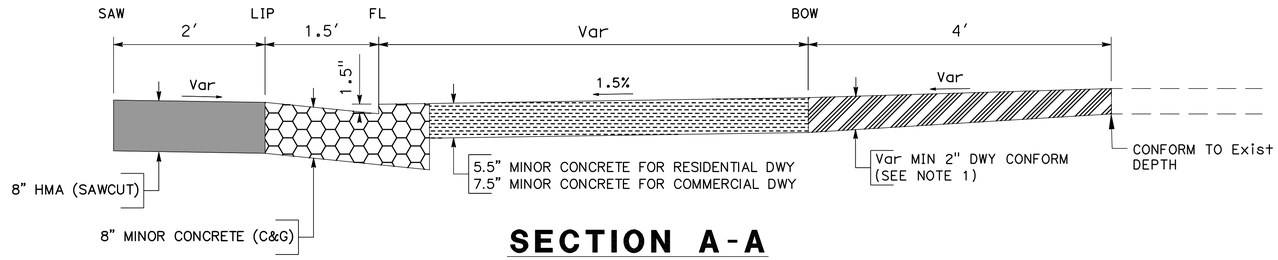
NOTES:

1. ALL DRIVEWAY CONFORMS SHALL MATCH EXISTING MATERIAL.
2. FOR INFORMATION NOT SHOWN REGARDING RESIDENTIAL DRIVEWAY APPROACHES, SEE CST DETAIL C-5. THE THICKNESS OF MINOR CONCRETE FOR RESIDENTIAL DRIVEWAYS SHALL BE 5.5".
3. FOR INFORMATION REGARDING COMMERCIAL DRIVEWAY APPROACHES, SEE CST DETAILS C-8 AND C-9. THE THICKNESS OF MINOR CONCRETE FOR COMMERCIAL DRIVEWAYS SHALL BE 7.5" AND THE THICKNESS FOR UNDERLYING CLASS 2 AGGREGATE BASE SHALL BE 6". THE COST OF REBAR IS INCLUDED IN THE COST OF CONCRETE FOR COMMERCIAL DRIVEWAYS.



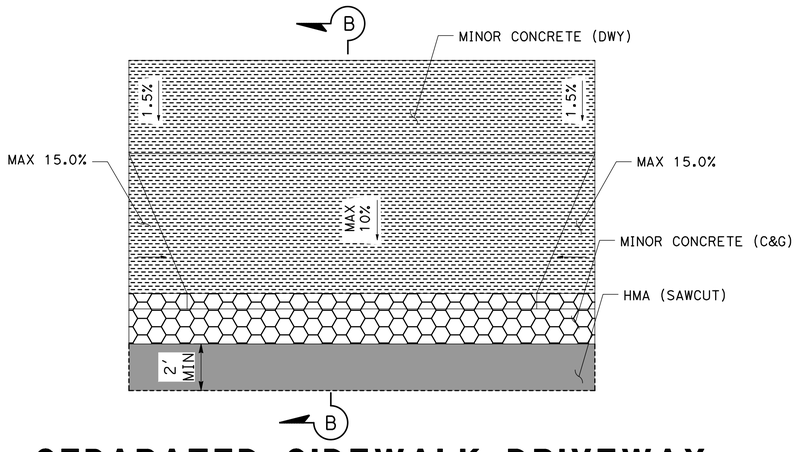
DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



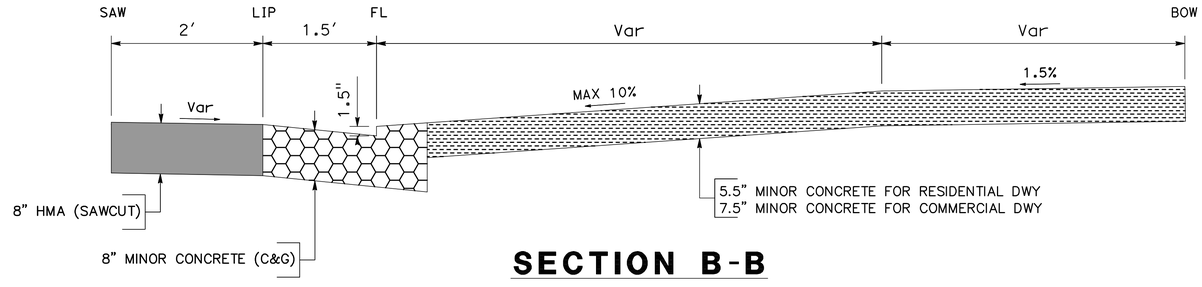
SECTION A-A

NO SCALE



SEPARATED SIDEWALK DRIVEWAY APPROACH TYPICAL DETAIL

NO SCALE



SECTION B-B

NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. KORIEGA
No. 61558
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

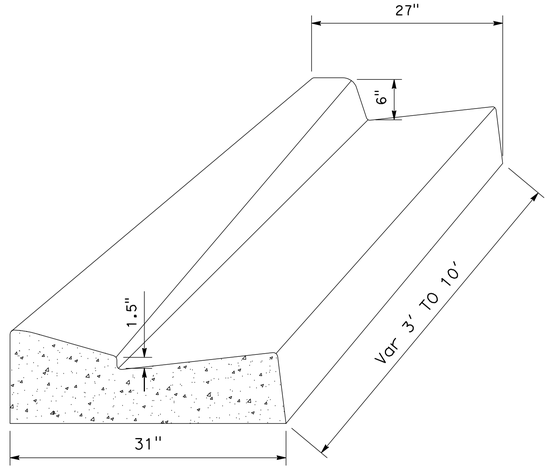
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 182 of 256 Sheets

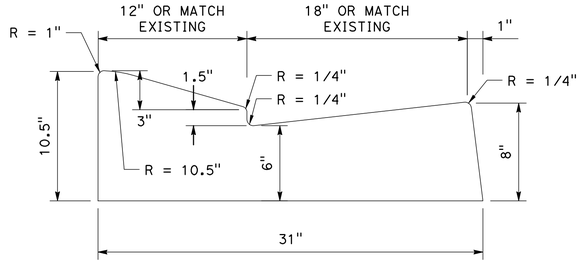
CD-2

NOTES:

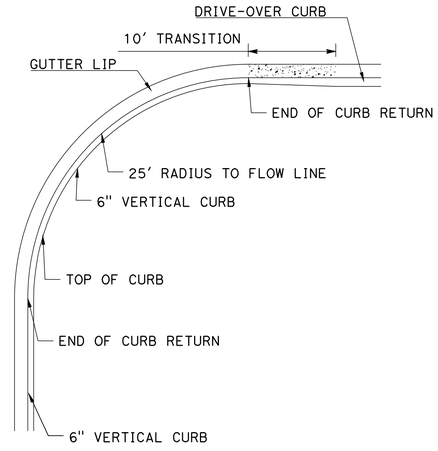
1. FOR C&G TRANSITIONS NEAR DRIVEWAYS, USE TRANSITION LENGTH OF 3′.
2. FOR C&G TRANSITIONS AT INTERSECTIONS AROUND CURB RETURNS, USE TRANSITION LENGTH OF 10′.
3. FOR INFORMATION REGARDING VALLEY GUTTERS, SEE CST DETAIL C-1.



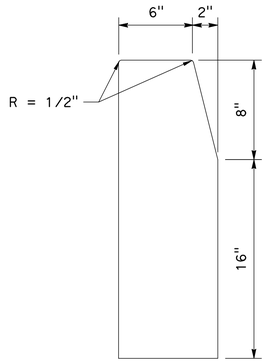
1 / CD-3 **CURB AND GUTTER TRANSITION**
NO SCALE



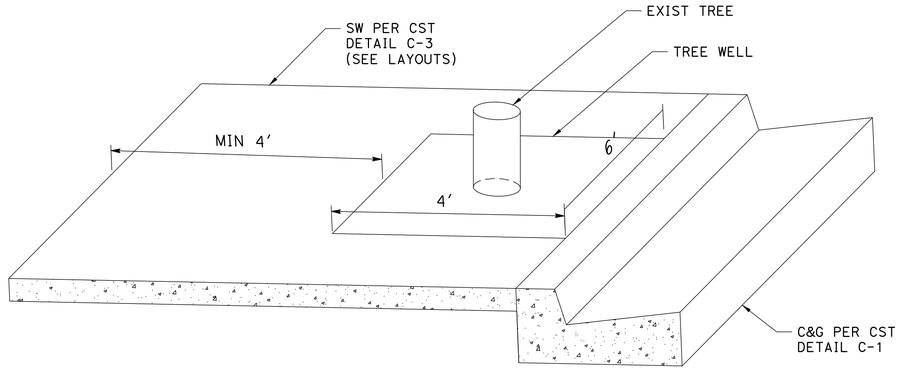
2 / CD-3 **DRIVE-OVER CURB DETAIL**
NO SCALE



3 / CD-3 **VERTICAL TO DRIVE OVER CURB**
NO SCALE



4 / CD-3 **LANDSCAPE MEDIAN CURB**
NO SCALE



5 / CD-3 **TYPICAL TREE WELL**
NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — LUCAS A. ORIEGA — No. 81554 — 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

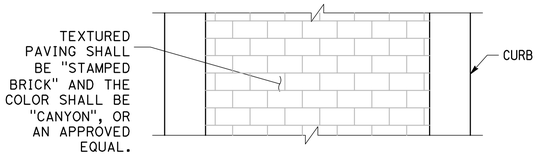
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 183 of 256 Sheets

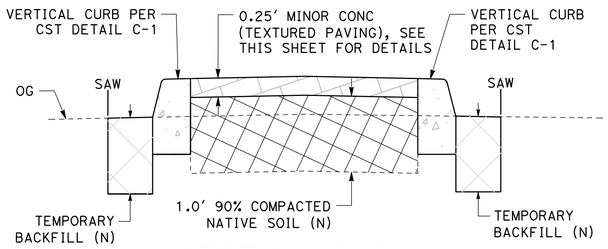
CD-3

NOTE:

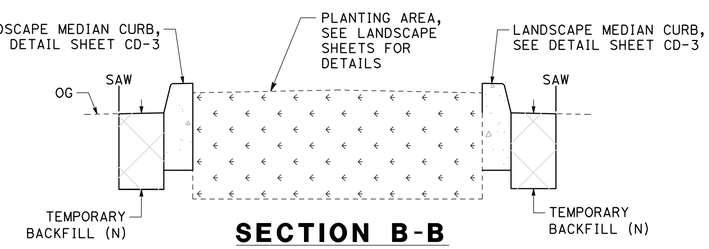
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



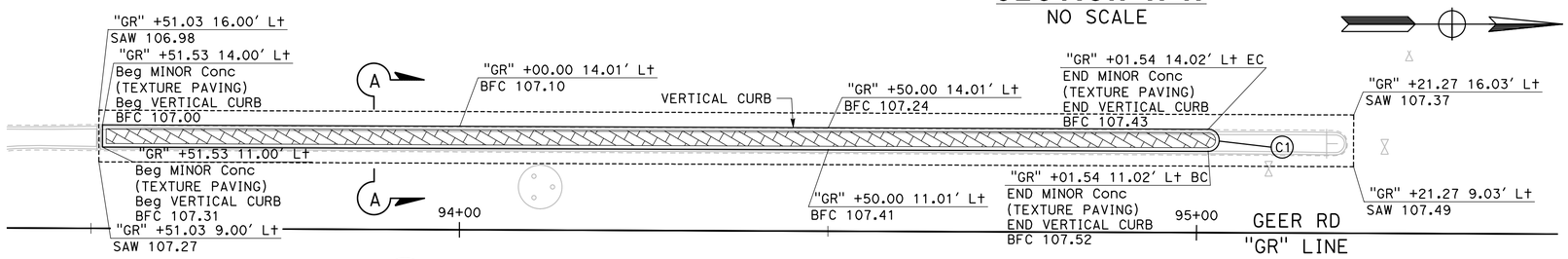
TEXTURED PAVING
NO SCALE



SECTION A-A
NO SCALE

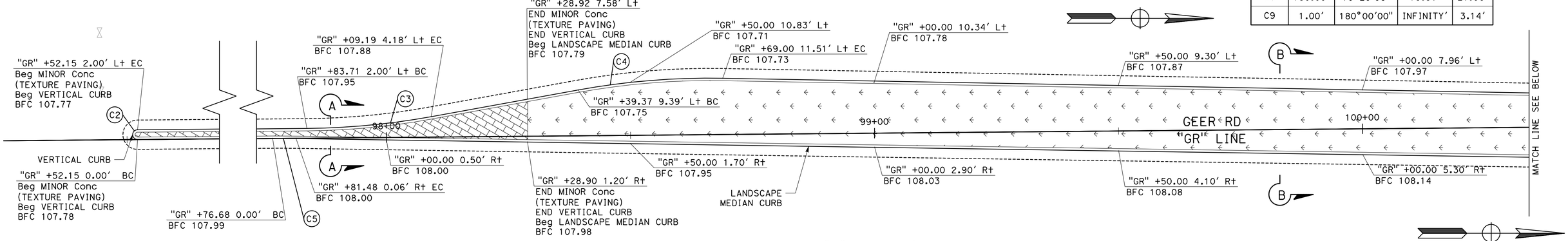


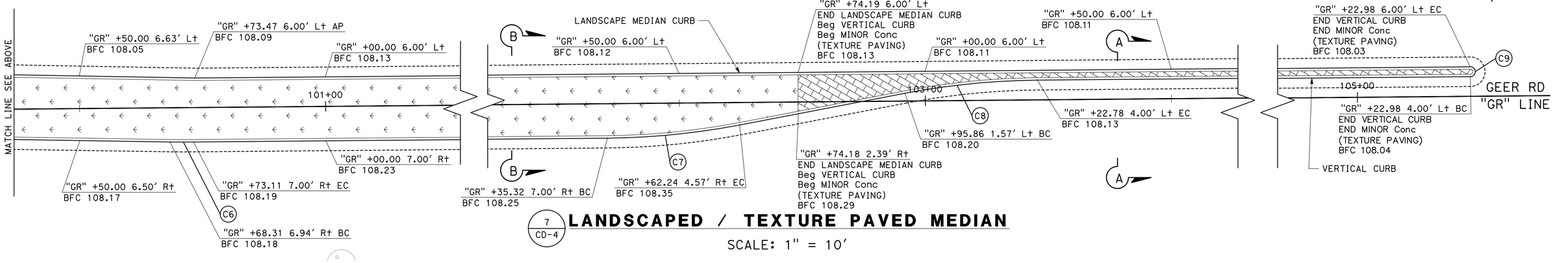
SECTION B-B
NO SCALE



6 / CD-4 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

CURVE TABLE				
No. X	R	Δ	T	L
C1	1.50'	180°00'00"	INFINITY'	4.71'
C2	1.00'	180°00'00"	INFINITY'	3.14'
C3	150.00'	9°46'46"	12.83'	25.60'
C4	150.00'	11°22'02"	14.93'	29.76'
C5	200.00'	1°22'30"	2.40'	4.80'
C6	200.00'	1°22'30"	2.40'	4.80'
C7	150.00'	10°20'08"	13.57'	27.06'
C8	150.00'	10°20'08"	13.57'	27.06'
C9	1.00'	180°00'00"	INFINITY'	3.14'





7 / CD-4 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=10'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ORIEGA — No. 61458 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

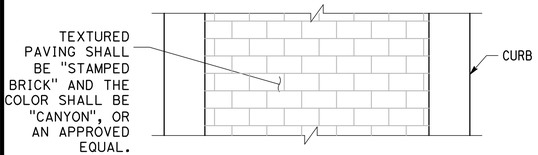
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 184 of 256 Sheets

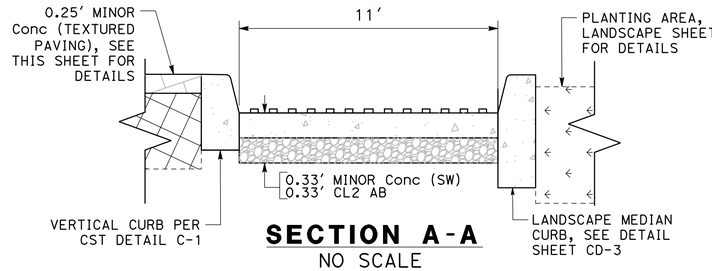
CD-4

NOTE:

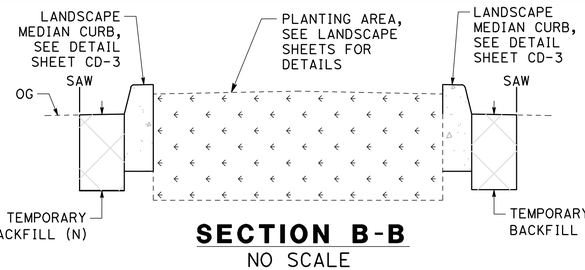
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



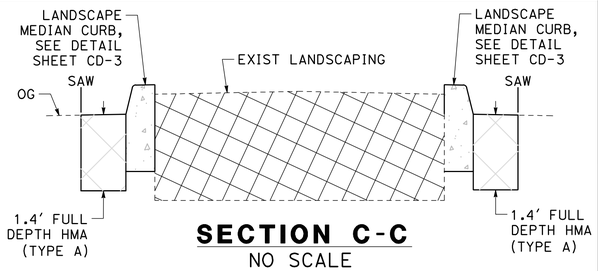
TEXTURED PAVING
NO SCALE



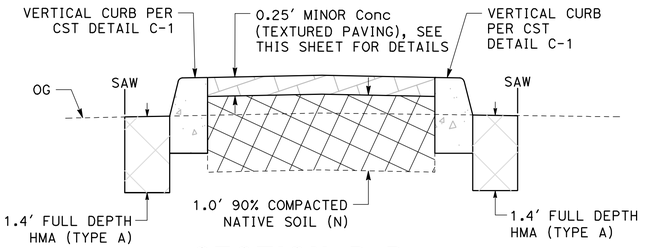
SECTION A-A
NO SCALE



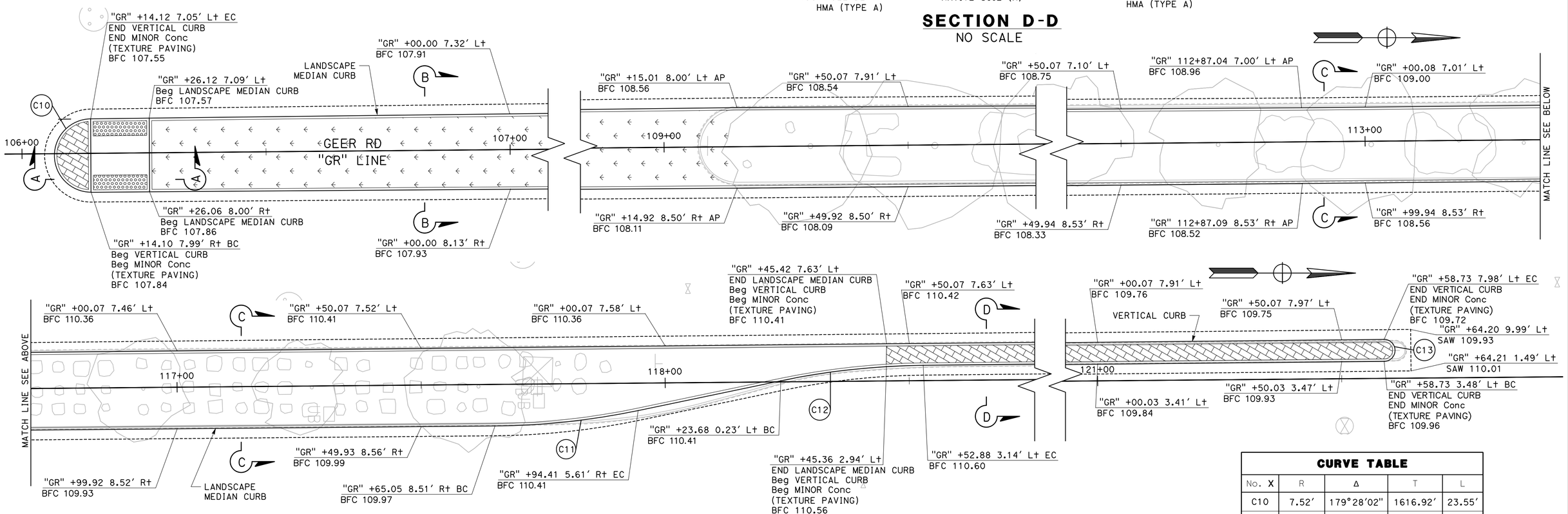
SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



SECTION D-D
NO SCALE



8 / CD-5 **LANDSCAPED / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

CURVE TABLE

No. X	R	Δ	T	L
C10	7.52'	179°28'02"	1616.92'	23.55'
C11	150.00'	11°17'24"	14.83'	29.56'
C12	150.00'	11°13'39"	14.74'	29.39'
C13	2.25'	180°00'00"	INFINITY'	7.07'

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=10'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN A. MORIEGA
No. 81505
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
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FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

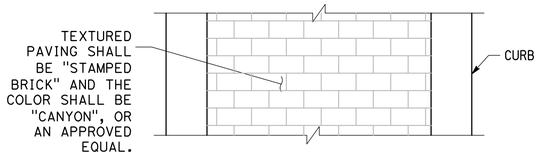
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
CONSTRUCTION DETAILS

Sheet 185 of 256 Sheets

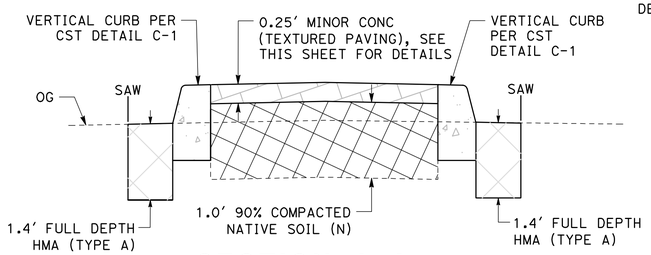
CD-5

NOTE:

1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE



SECTION A-A
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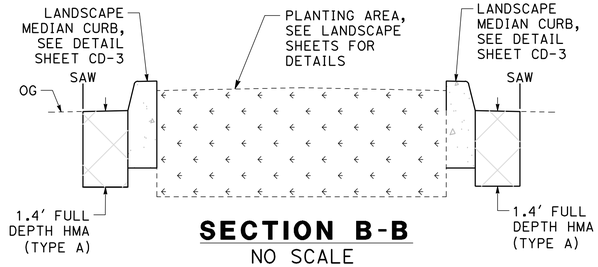
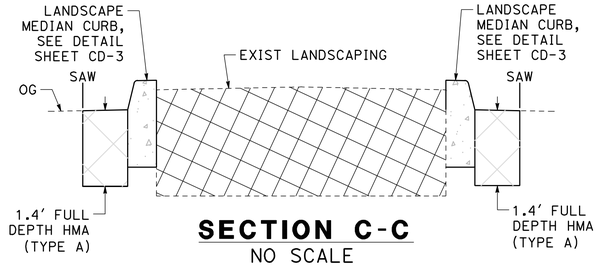
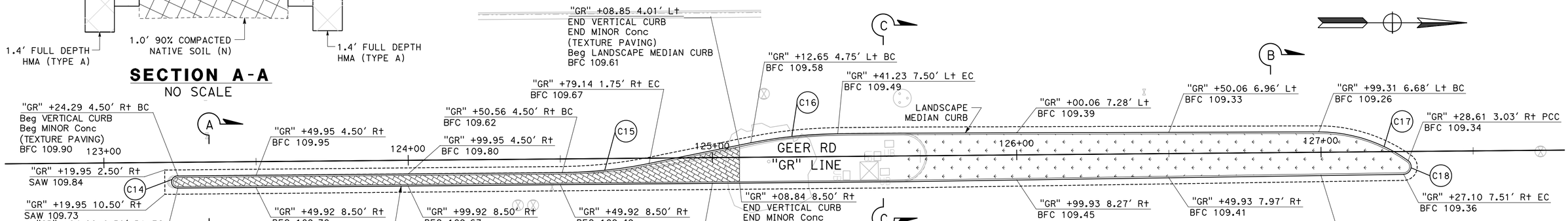


SECTION B-B
NO SCALE

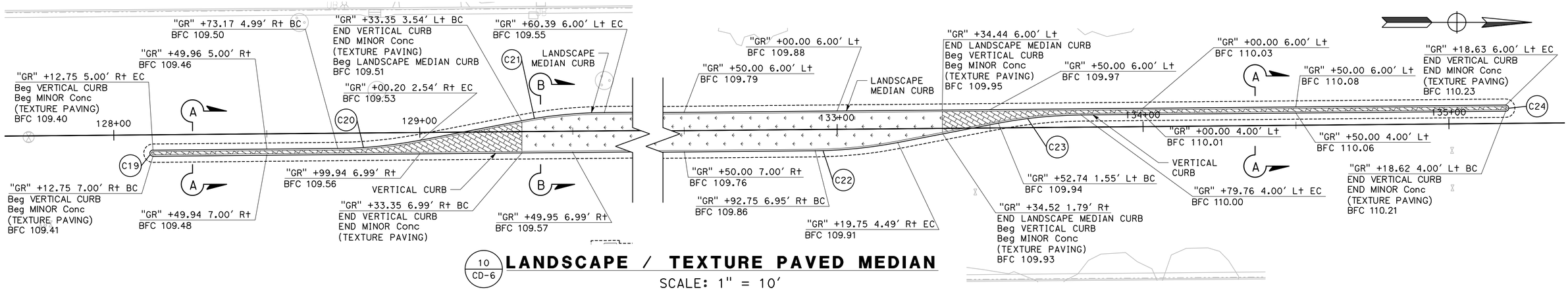


SECTION C-C
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C14	2.00'	182°01'18"	113.34'	6.35'
C15	150.00'	10°59'04"	14.42'	28.76'
C16	150.00'	10°59'04"	14.42'	28.76'
C17	50.00'	35°57'20"	16.22'	31.38'
C18	2.50'	142°07'30"	7.29'	6.20'
C19	1.00'	180°00'00"	INFINITY'	3.14'
C20	150.00'	10°22'52"	13.63'	27.18'
C21	150.00'	10°23'14"	13.63'	27.19'
C22	150.00'	10°22'18"	13.61'	27.15'
C23	150.00'	10°22'41"	13.62'	27.17'
C24	1.00'	178°59'11"	113.04'	3.12'



9 / CD-6 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'



10 / CD-6 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 10 0 10 20

REGISTERED PROFESSIONAL ENGINEER EDUARDO A. ORTEGA No. 61556 CIVIL 6/30/27 STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

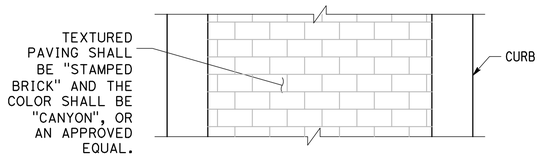
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

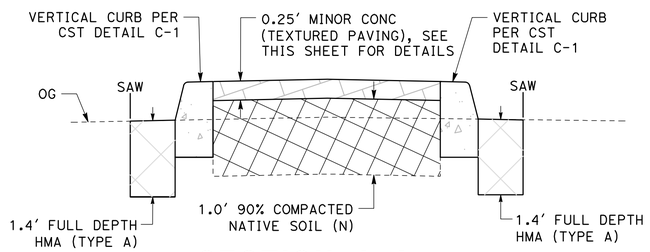
CD-6

NOTE:

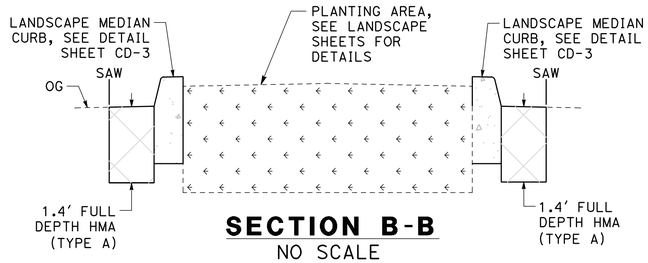
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

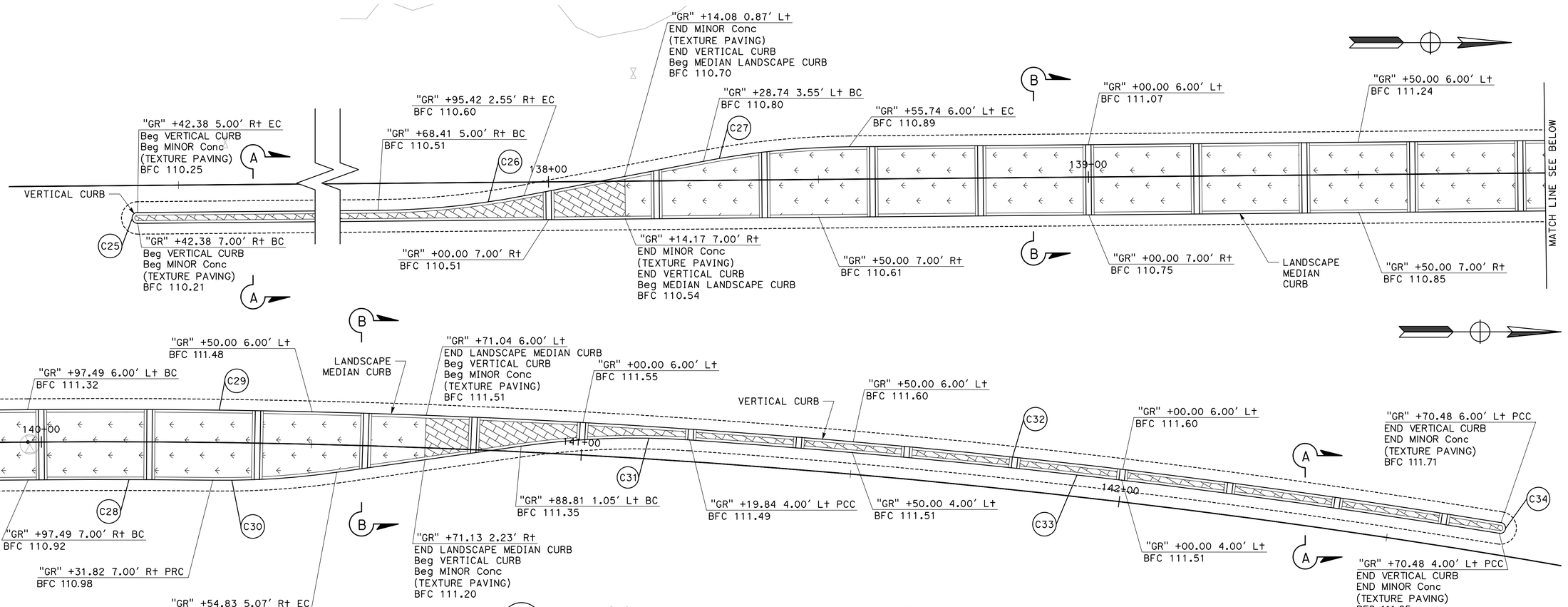


SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C25	1.00'	180°33'50"	203.20'	3.15'
C26	150.00'	10°22'19"	13.61'	27.15'
C27	150.00'	10°22'19"	13.61'	27.15'
C28	1593.00'	1°13'45"	17.09'	34.18'
C29	1606.00'	9°46'32"	137.34'	274.01'
C30	150.00'	8°47'42"	11.54'	23.03'
C31	150.00'	11°56'50"	15.70'	31.28'
C32	1606.00'	9°46'32"	137.34'	274.01'
C33	1604.00'	5°23'39"	75.56'	151.01'
C34	1.00'	180°00'00"	INFINITY'	3.14'



11 / CD-7 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER — JESSICA A. TORREGA — No. C 61555 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
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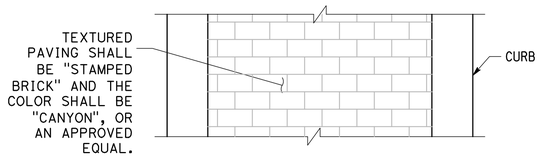
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 187 of 256 Sheets

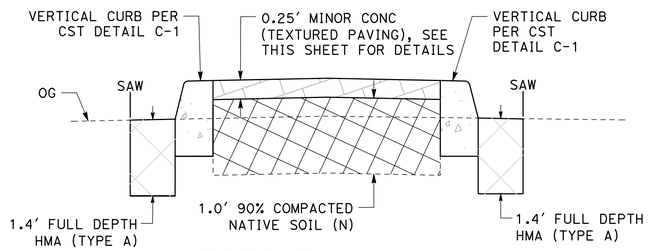
CD-7

NOTE:

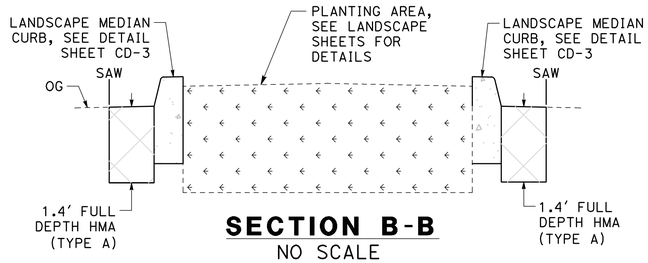
1. EXISTING ELEVATIONS SHOWN AS (XX.XX).
2. WHERE MEDIAN WIDTH IS LESS THAN 2' FROM FLOWLINE TO FLOWLINE, NO PATTERN IS REQUIRED.
3. SEE CST DETAIL ST-17 FOR INFORMATION REGARDING MEDIAN NOSES.



TEXTURED PAVING
NO SCALE

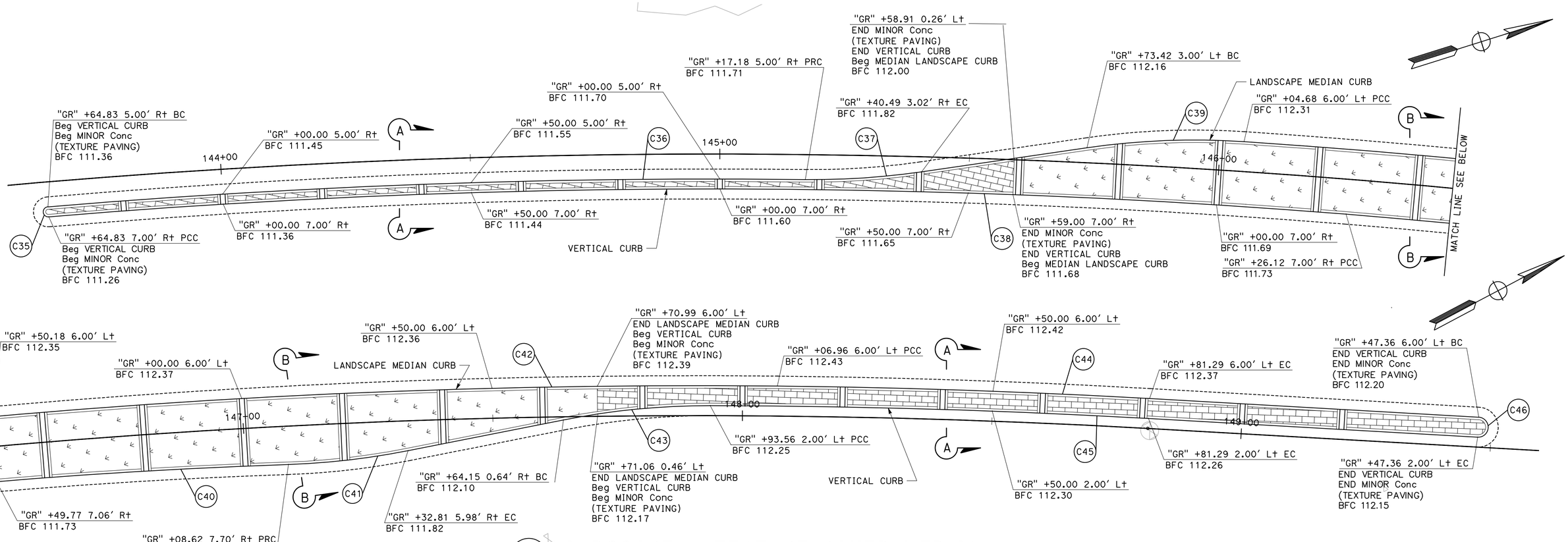


SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

CURVE TABLE				
No. X	R	Δ	T	L
C35	1.00'	180°00'00"	INFINITY'	3.14'
C36	1595.00'	5°27'20"	75.99'	151.87'
C37	150.00'	8°55'18"	11.70'	23.36'
C38	1593.00'	9°21'24"	130.36'	260.14'
C39	150.00'	12°02'55"	15.83'	31.54'
C40	1199.00'	3°55'30"	41.08'	82.14'
C41	150.00'	9°13'55"	12.11'	24.17'
C42	1606.00'	7°14'37"	101.65'	203.04'
C43	150.00'	11°18'11"	14.84'	29.59'
C44	1606.00'	2°39'43"	37.31'	74.61'
C45	1602.00'	3°08'30"	43.93'	87.84'
C46	2.00'	180°00'00"	INFINITY'	6.28'



12 / CD-8 **LANDSCAPE / TEXTURE PAVED MEDIAN**
SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/27
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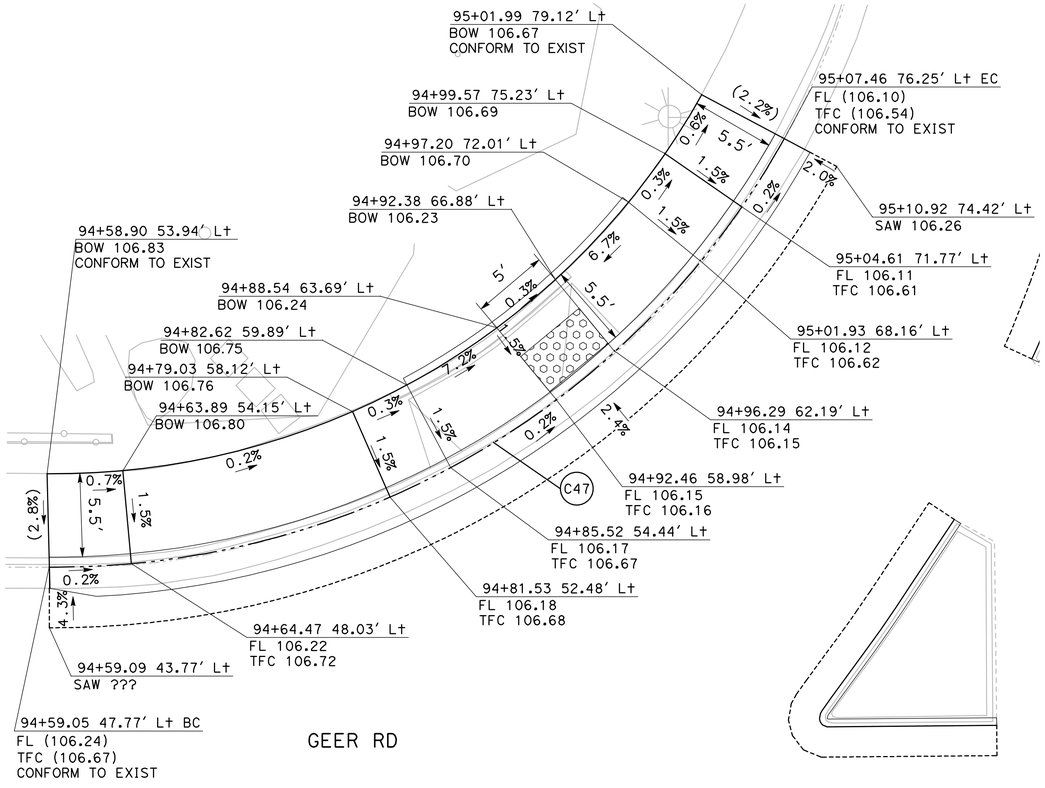
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 188 of 256 Sheets

CD-8

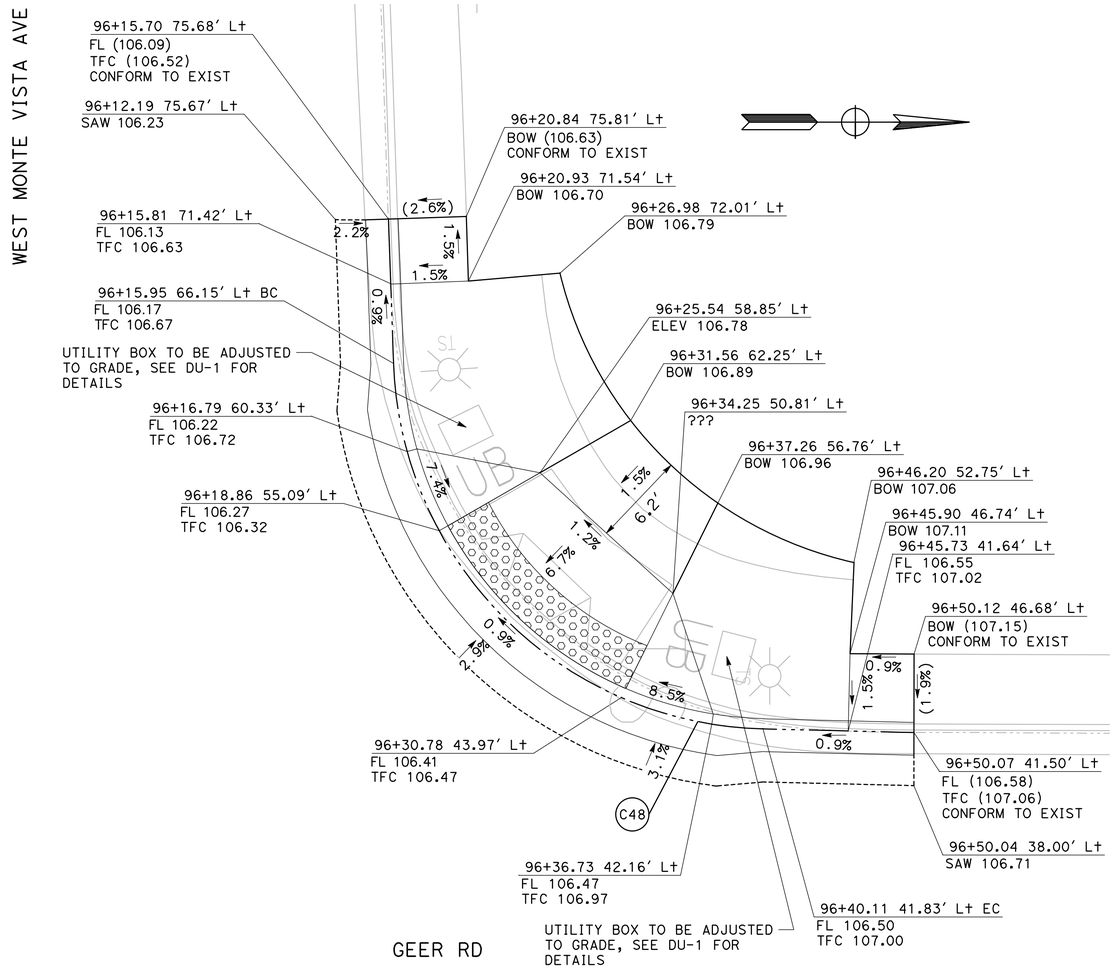
CURVE TABLE				
No. X	R	Δ	T	L
C47	55.00′	58°40′30"	30.91′	56.32′
C48	25.00′	86°34′16"	23.55′	37.77′



13
CD-9

W MONTE VISTA AVE / GEER RD SW CURB RAMP

SCALE: 1" = 5′



14
CD-9

W MONTE VISTA AVE / GEER RD NW CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
DOUGLAS A. MORIEGA
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Exp. 6/30/27
CIVIL
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ROADS PROGRAM DIVISION
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SUITE 150
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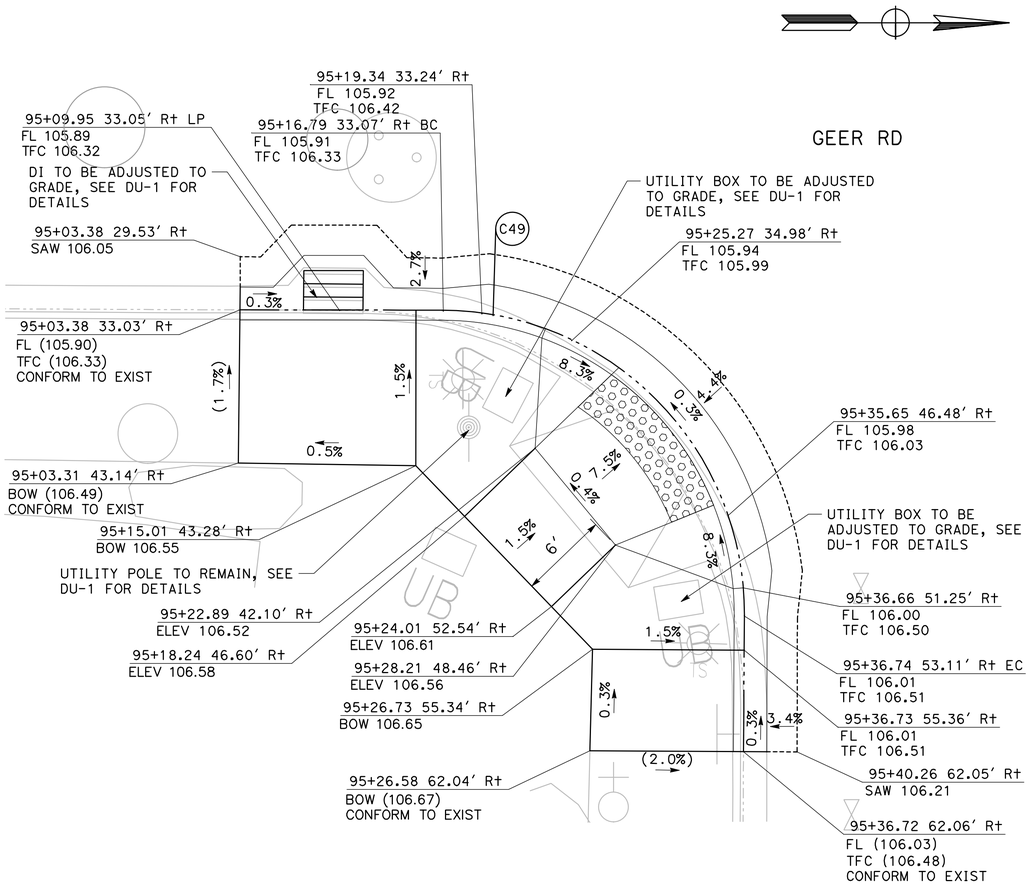
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 189 of 256 Sheets

CD-9

CURVE TABLE				
No. X	R	Δ	T	L
C49	20.00′	89°59′08"	19.99′	31.41′
C50	25.00′	99°05′11"	29.32′	43.23′

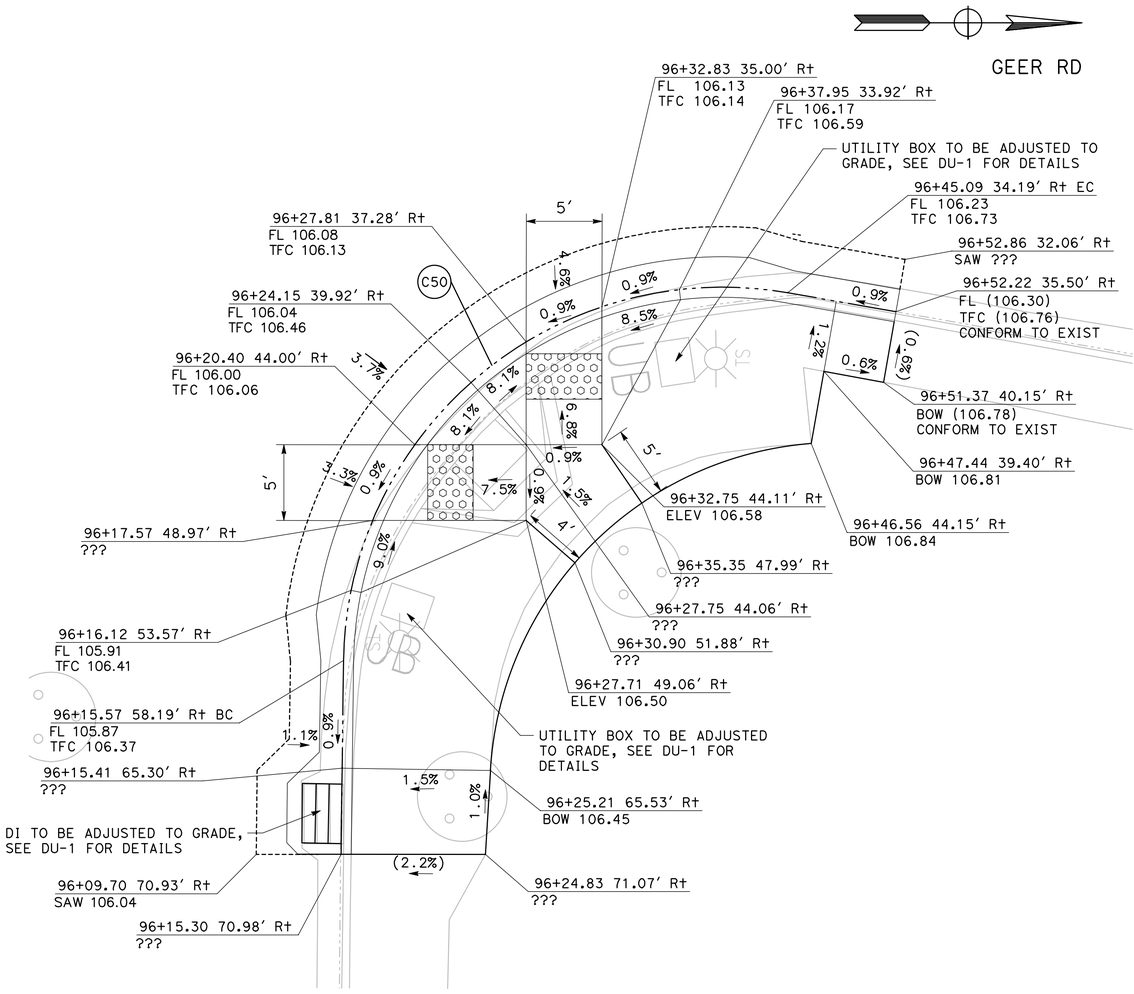


15
CD-10

E MONTE VISTA AVE / GEER RD
SE CURB RAMP

SCALE: 1" = 5′

EAST MONTE VISTA AVE



16
CD-10

E MONTE VISTA AVE / GEER RD
NE CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. MORIEGA — No. C 61554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
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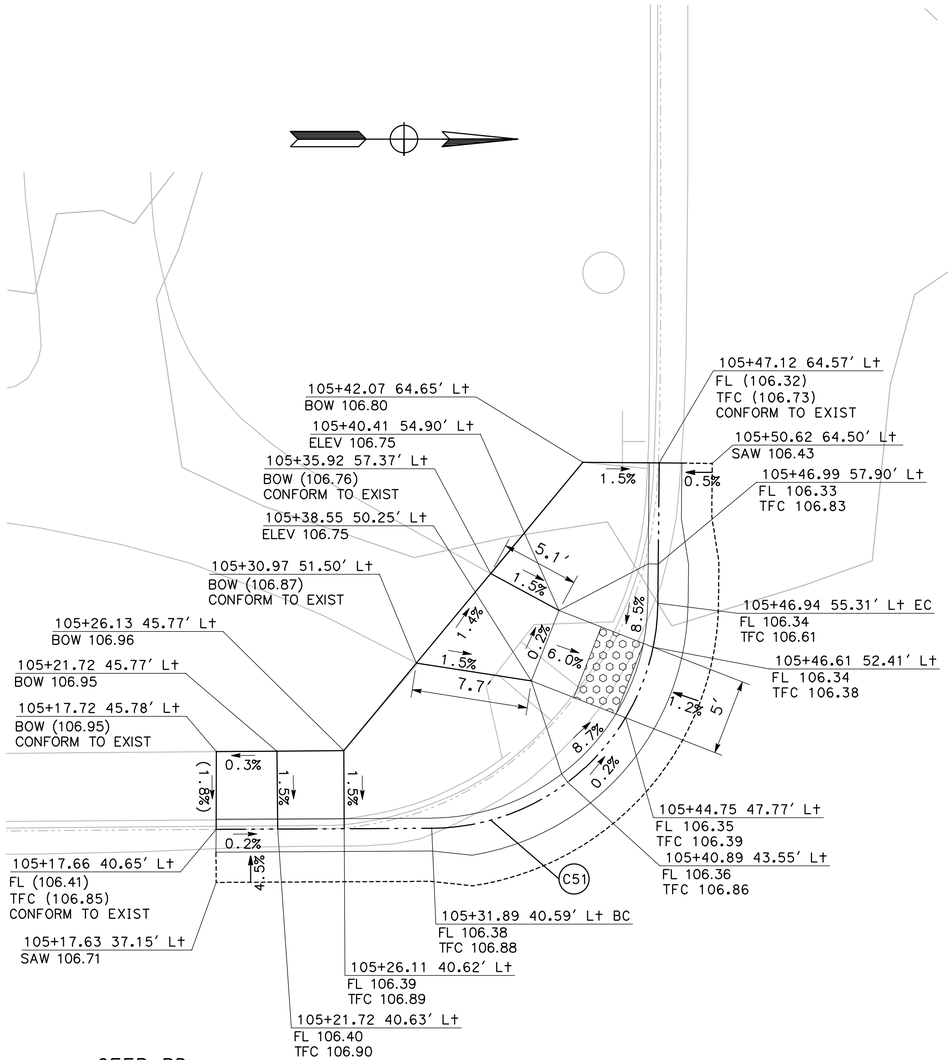
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
CONSTRUCTION DETAILS

Sheet 190 of 256 Sheets

CD-10



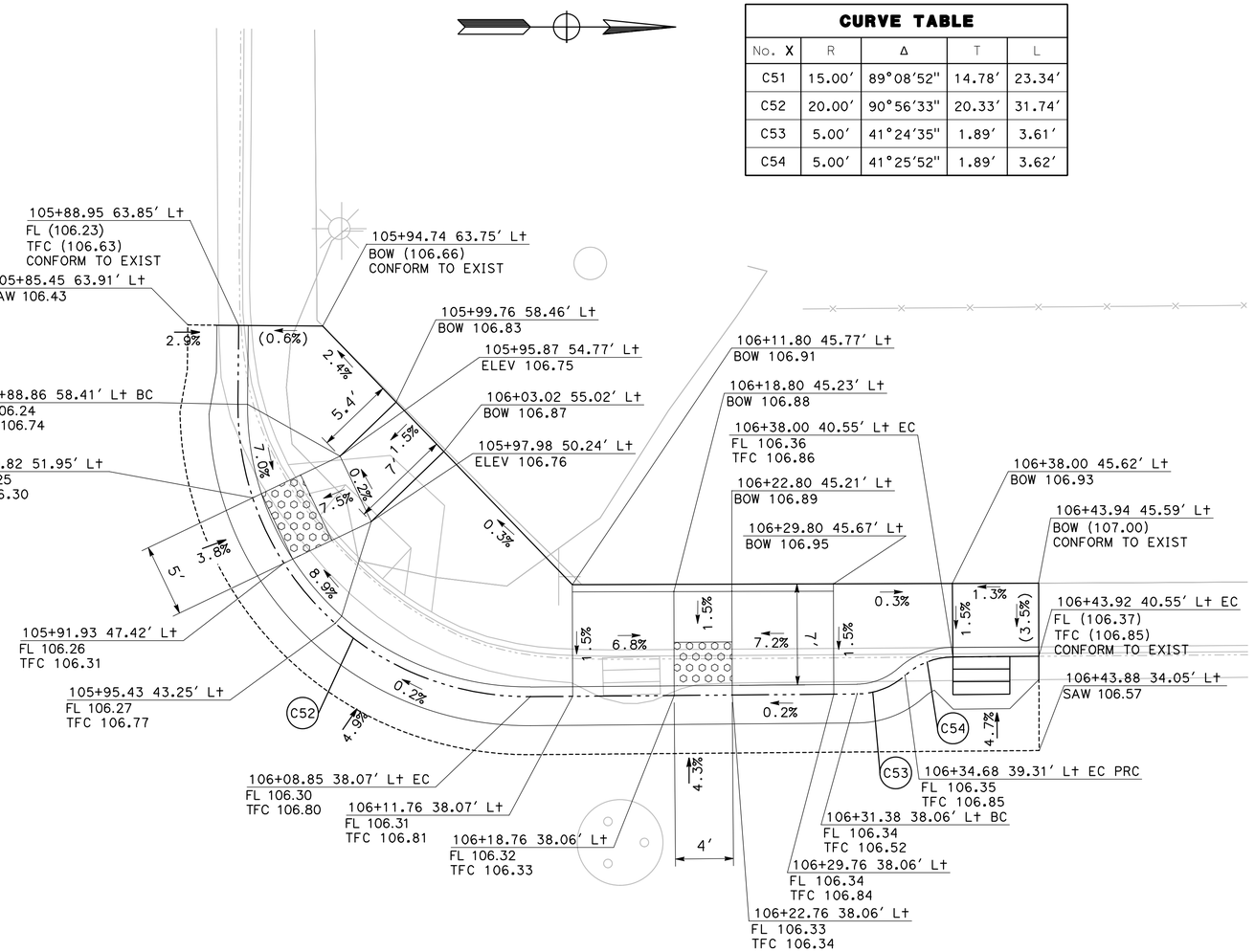
17 CD-11

CALAVERAS WAY / GEER RD
SW CURB RAMP

SCALE: 1" = 5'

CALAVERAS WAY

CURVE TABLE				
No. X	R	Δ	T	L
C51	15.00'	89°08'52"	14.78'	23.34'
C52	20.00'	90°56'33"	20.33'	31.74'
C53	5.00'	41°24'35"	1.89'	3.61'
C54	5.00'	41°25'52"	1.89'	3.62'



18 CD-11

CALAVERAS WAY / GEER RD
NW CURB RAMP

SCALE: 1" = 5'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

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USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
JULIAN A. ORTEGA
No. 81554
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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

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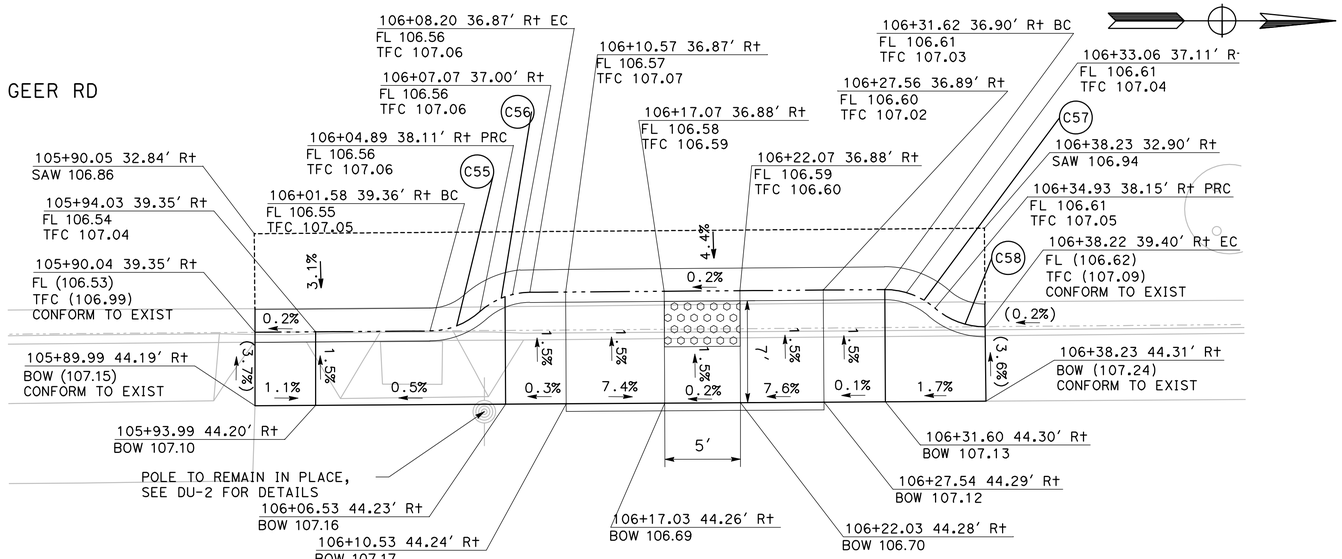
CD-11

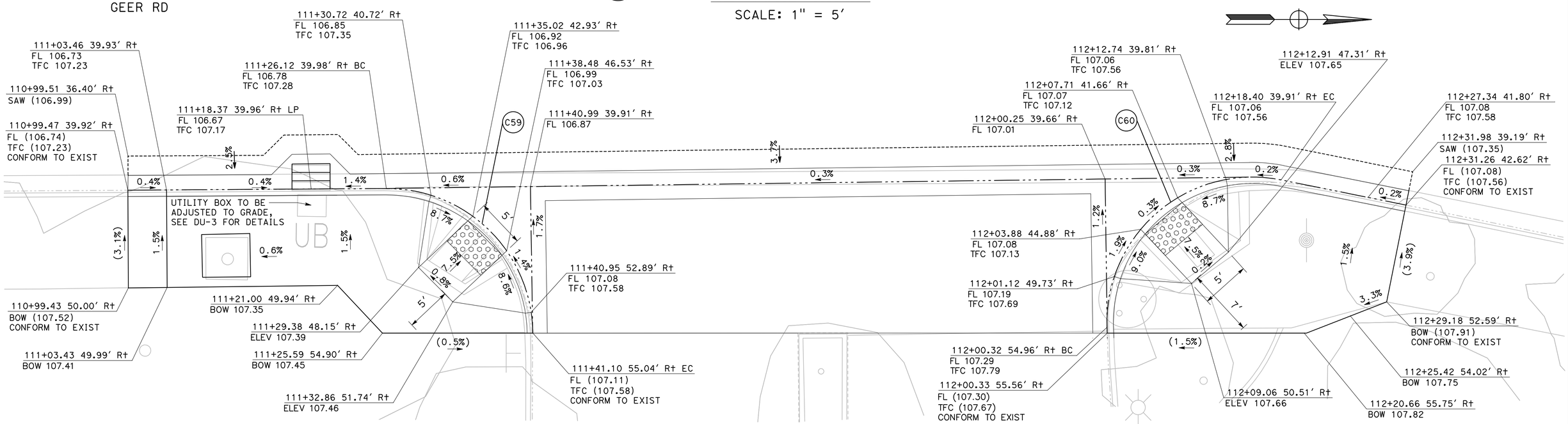


19 CD-12

CALAVERAS WAY / GEER RD
NE CURB RAMP

SCALE: 1" = 5'

CURVE TABLE				
No. X	R	Δ	T	L
C55	5.00'	41°24'35"	1.89'	3.61'
C56	5.00'	41°24'35"	1.89'	3.61'
C57	5.00'	41°24'35"	1.89'	3.61'
C58	5.00'	41°19'51"	1.89'	3.61'
C59	15.02'	90°01'13"	15.02'	23.59'
C60	15.00'	103°18'30"	18.96'	27.05'



20 CD-12

FULLTERTON DR / GEER RD EAST COMMERCIAL
DRIVEWAY & CURB RAMPS

SCALE: 1" = 5'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
5 0 5 10

REGISTERED PROFESSIONAL ENGINEER
JESSICA A. ROBLEGA
No. 84558
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

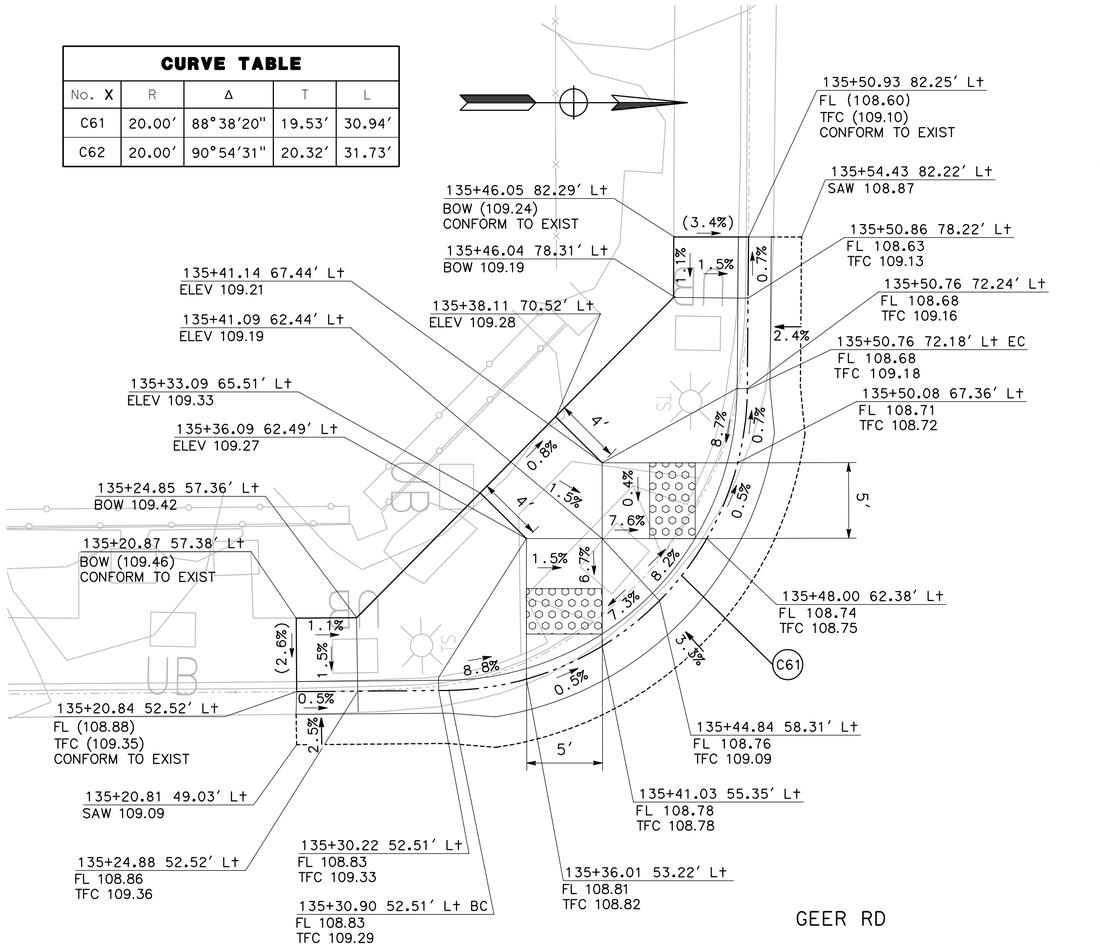
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
CONSTRUCTION DETAILS

Sheet 192 of 256 Sheets

CD-12

CURVE TABLE				
No. X	R	Δ	T	L
C61	20.00′	88°38′20"	19.53′	30.94′
C62	20.00′	90°54′31"	20.32′	31.73′

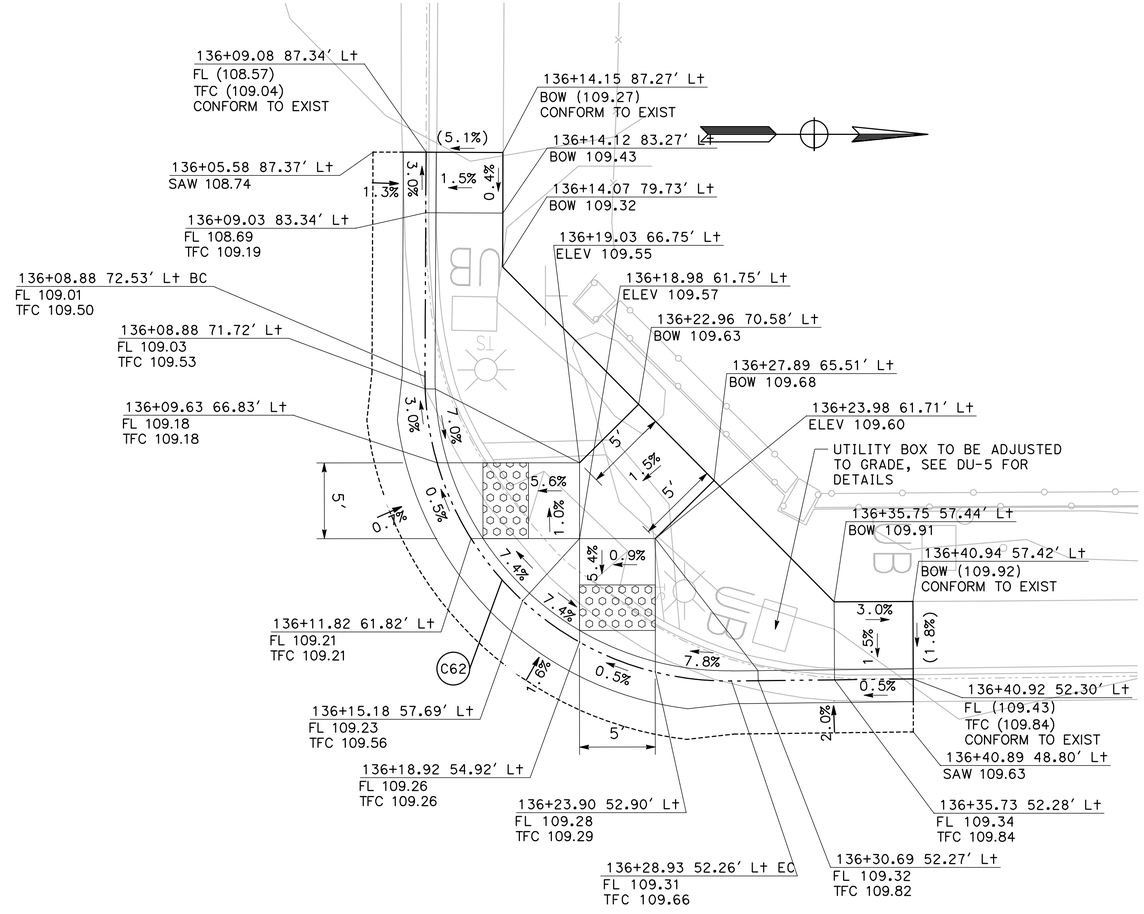


W SPRINGER DR

GEER RD

21 CD-13 W SPRINGER DR / GEER RD SW CURB RAMP

SCALE: 1" = 5′



22 CD-13 W SPRINGER DR / GEER RD NW CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — WILLIAM A. MORIEGA — No. 84554 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

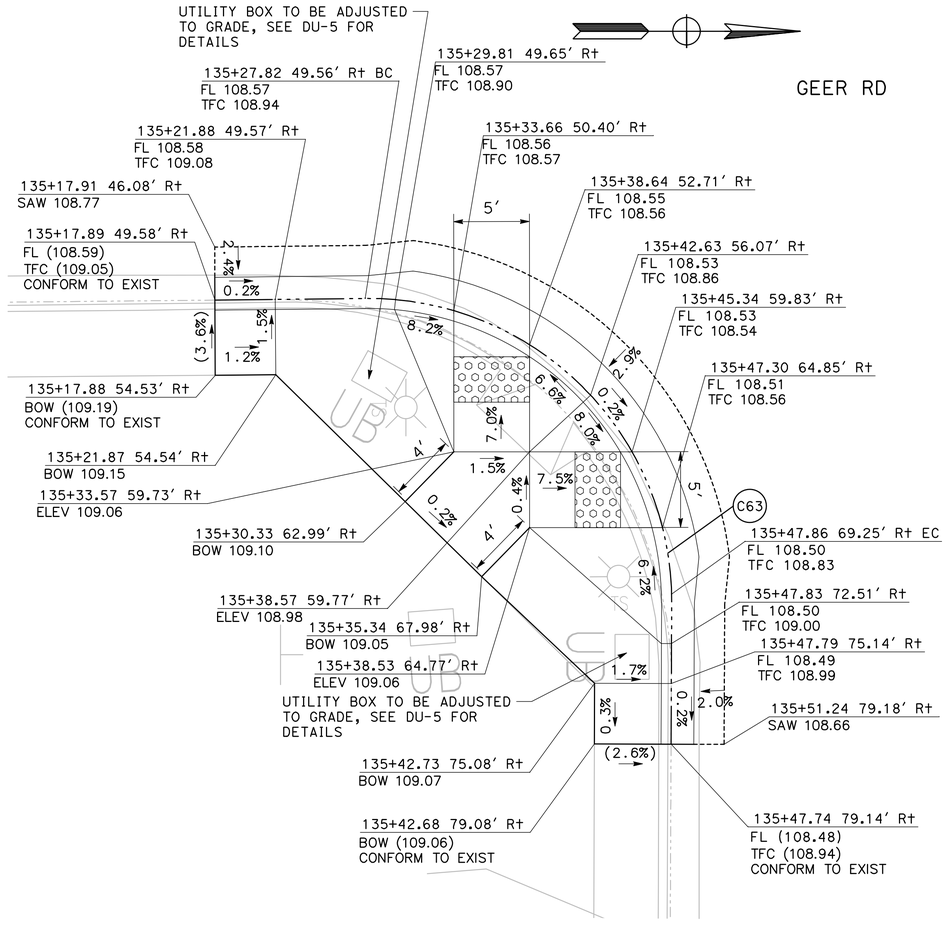
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 193 of 256 Sheets

CD-13

CURVE TABLE				
No. X	R	Δ	T	L
C63	20.00′	89°13′56"	19.73′	31.15′
C64	20.00′	89°27′17"	19.81′	31.23′

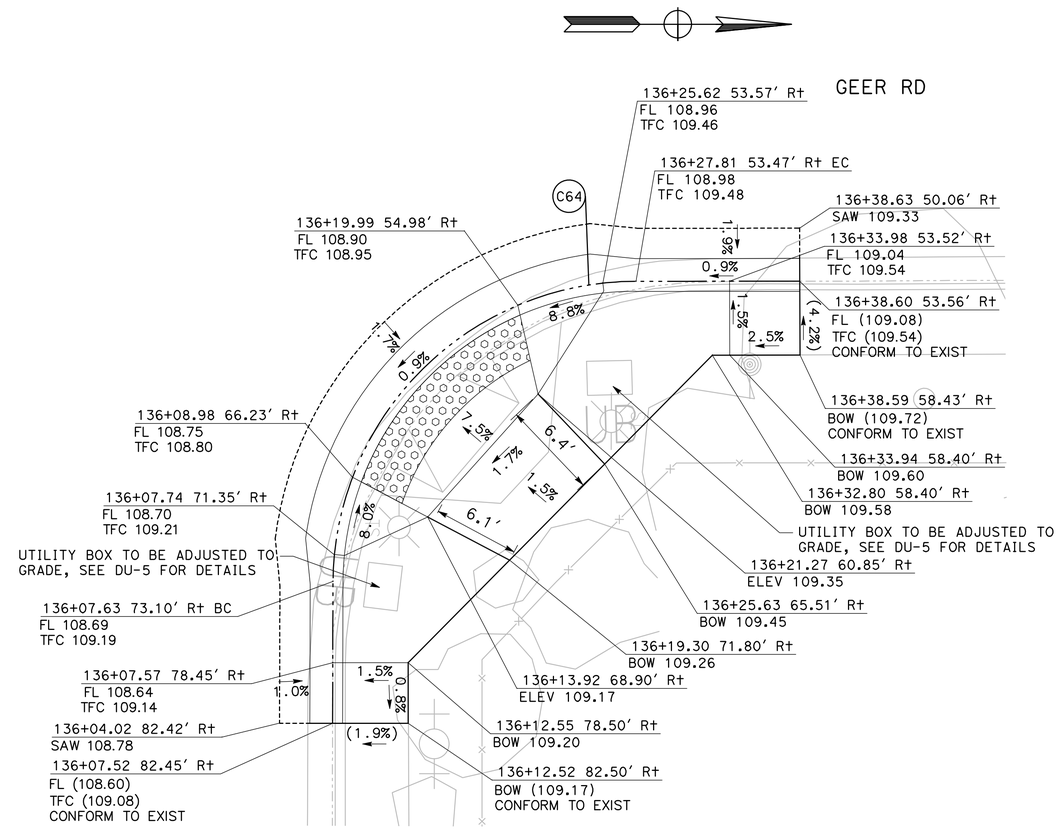


23 / CD-14

E SPRINGER DR/ GEER RD SE CURB RAMP

SCALE: 1" = 5′

E SPRINGER DR



24 / CD-14

E SPRINGER DR/ GEER RD NE CURB RAMP

SCALE: 1" = 5′

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=5′
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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SCALE 5 0 5 10

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. ORIEGA — No. 84144 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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ROADS PROGRAM DIVISION
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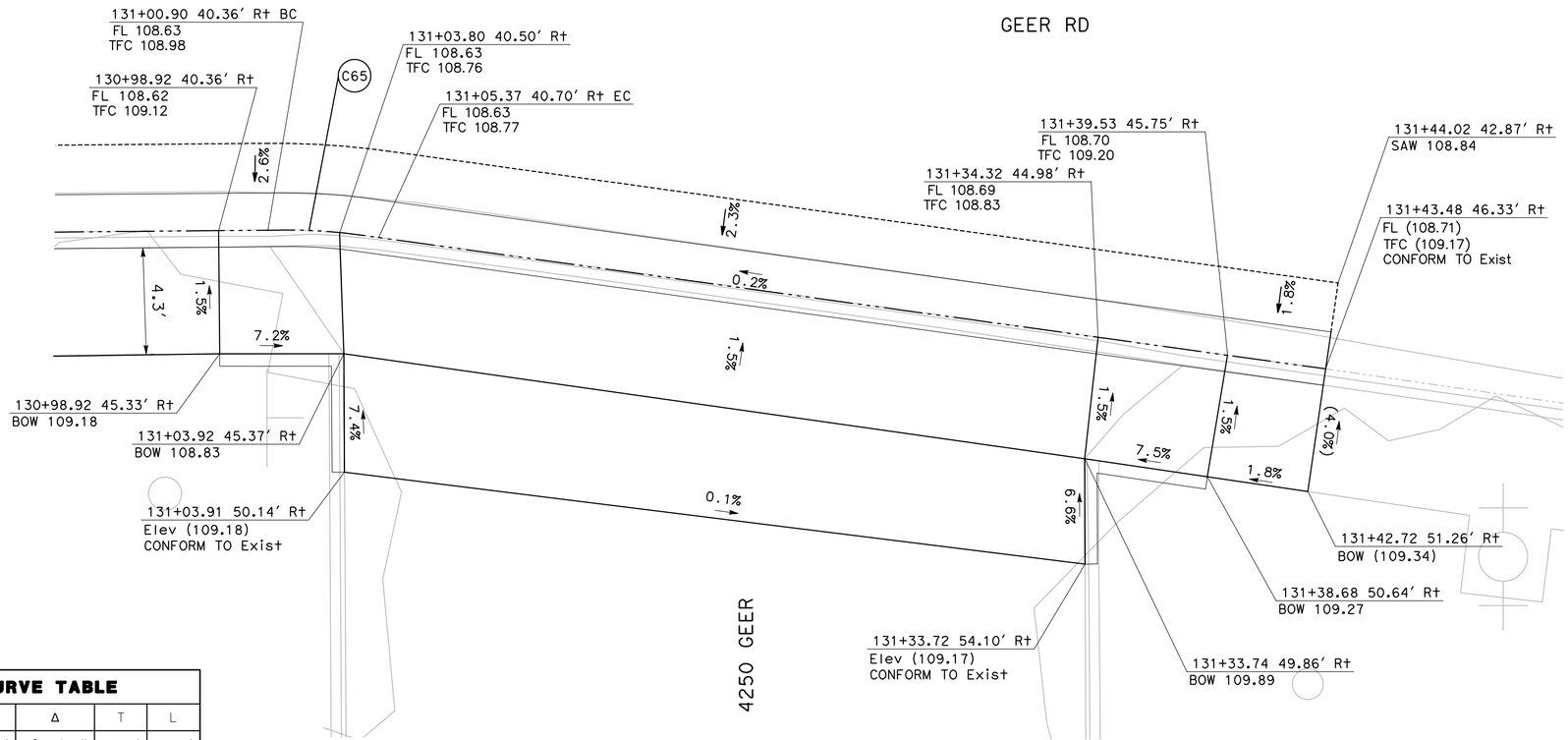
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 194 of 256 Sheets

CD-14



CURVE TABLE				
No. X	R	Δ	T	L
C65	22.00'	8°24'06"	1.62'	3.23'

25 / CD-15 **DRIVEWAY 1**

SCALE: 1" = 3'

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=3'
DATE: 6/08/2026
JOB NO.: 23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
3 0 3 6

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. MORIEGA — No. 84584 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
CONSTRUCTION DETAILS

Sheet 195 of 256 Sheets

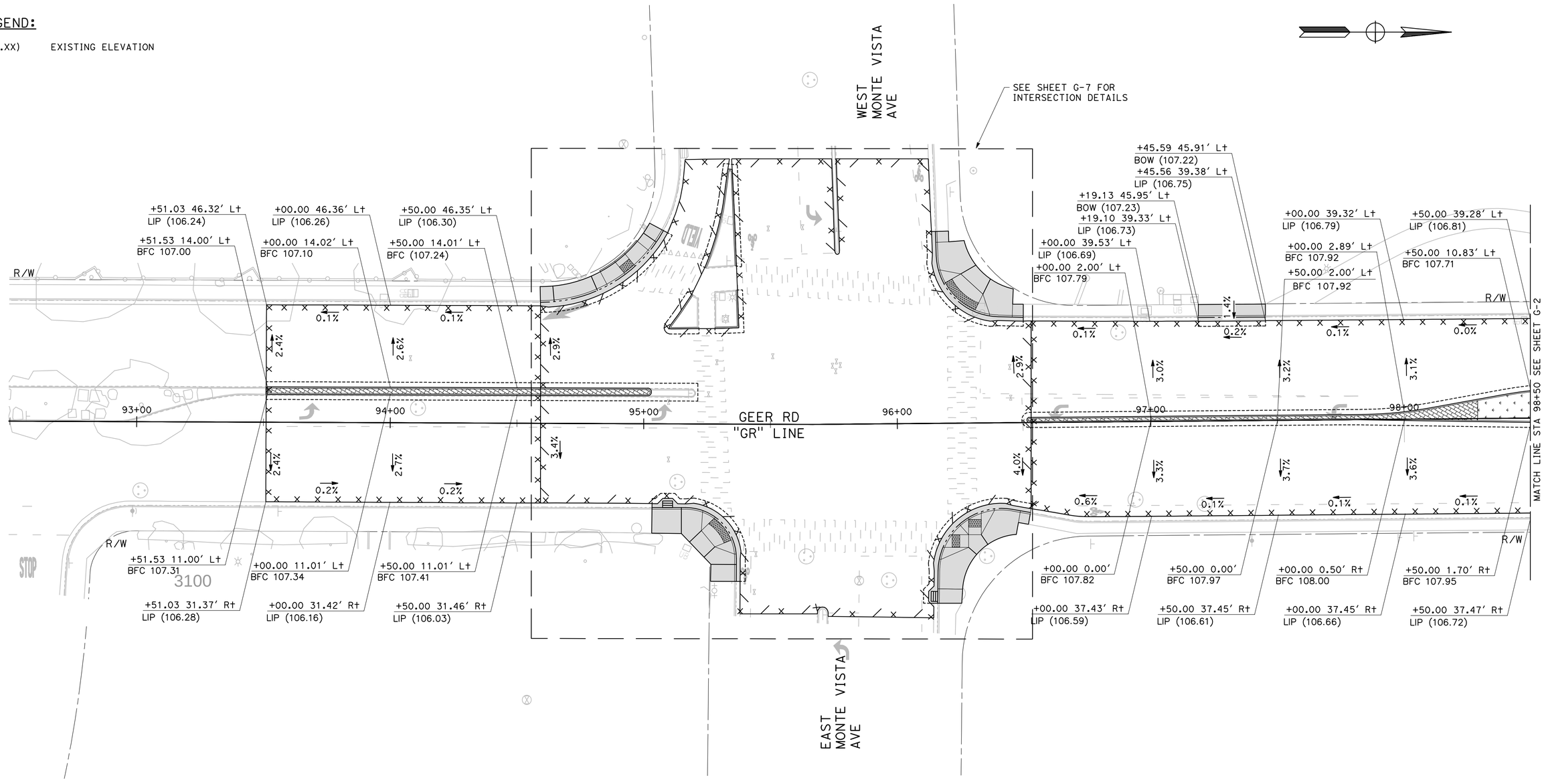
CD-15

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. FOR CURB RAMP AND DRIVEWAY APPROACH STATIONS/OFFSETS AND ELEVATIONS, SEE CONSTRUCTION DETAIL SHEETS.
3. FOR SAWCUT AND RECONSTRUCTIONS LIMITS, SEE LAYOUT SHEETS.

LEGEND:

(XX.XX) EXISTING ELEVATION



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — ANDREW A. MORIEGA — No. 61556 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

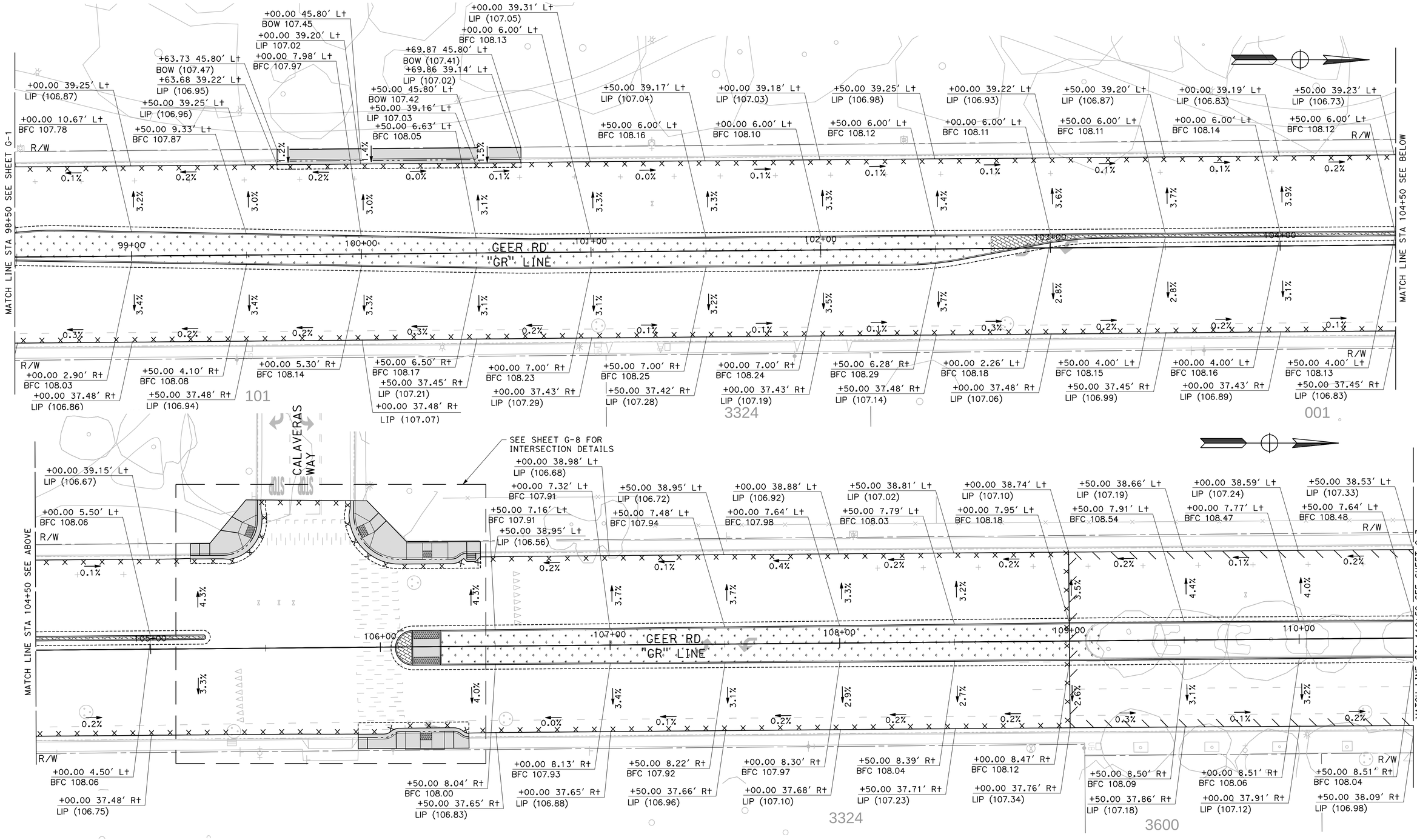
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

G-1



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — EDUARDO A. MORIEGA — No. C 41556 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

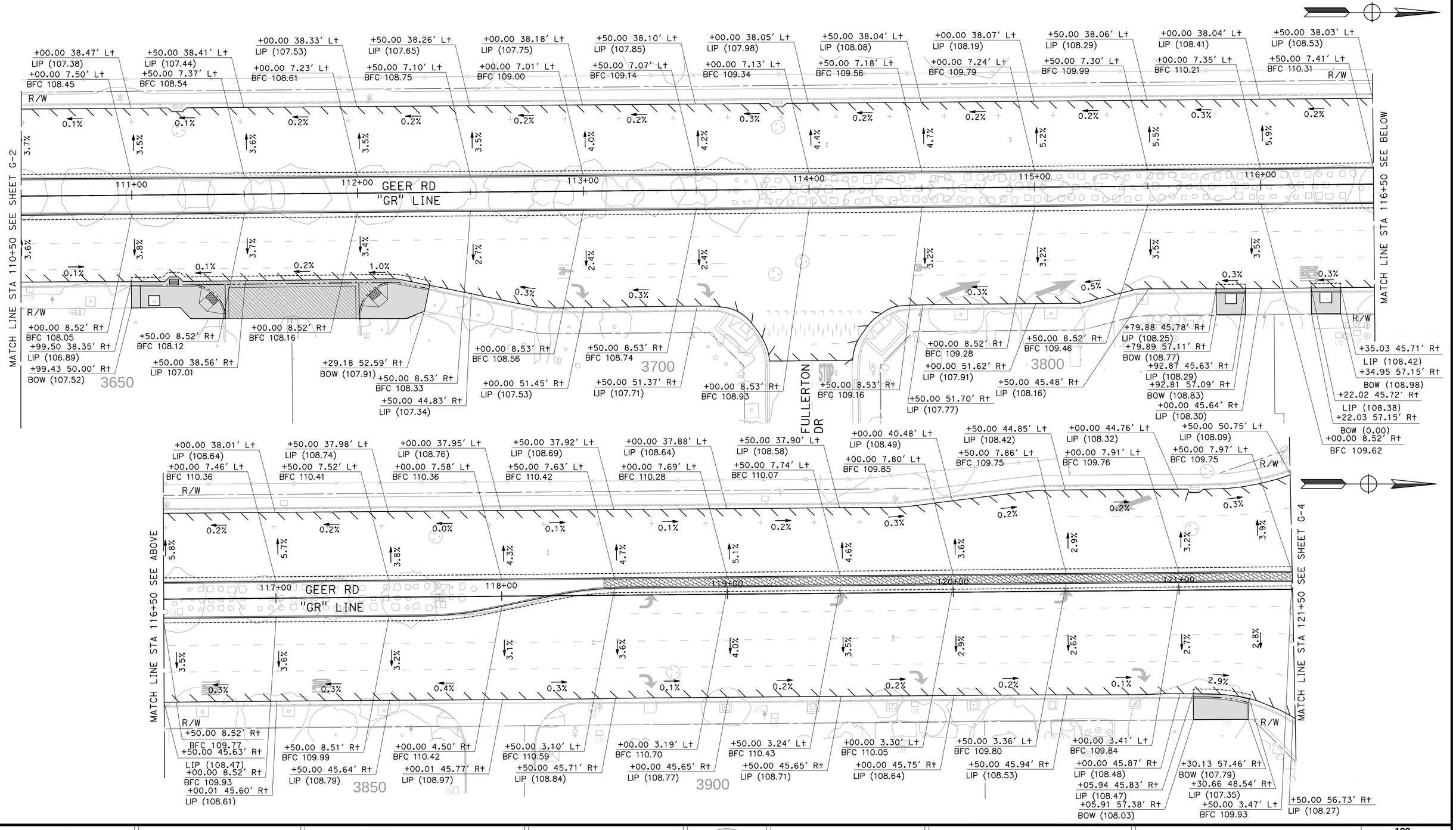
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

Sheet 197 of 256 Sheets

G-2



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — No. 81556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

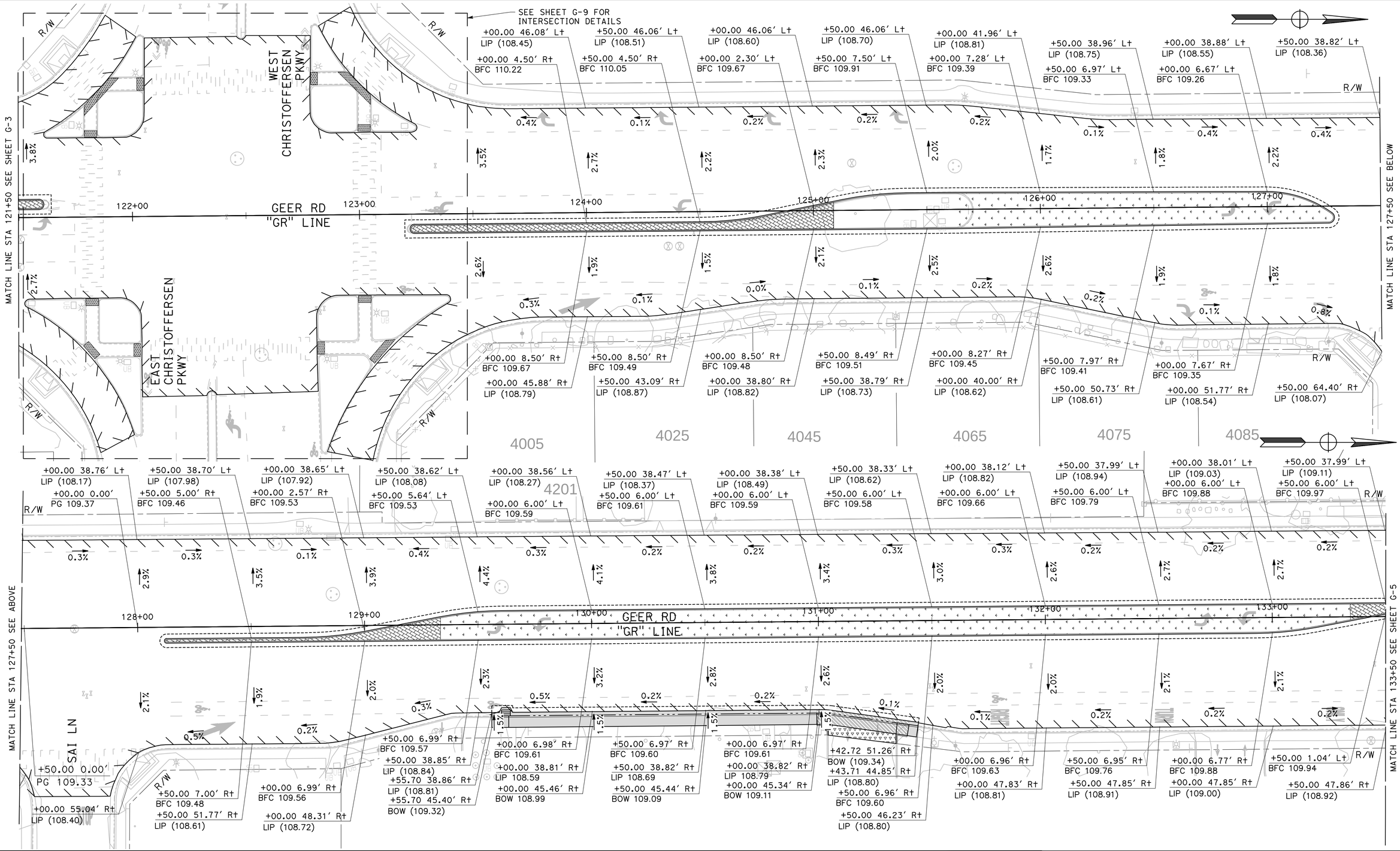
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

G-3



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. TORRECA No. 61355 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

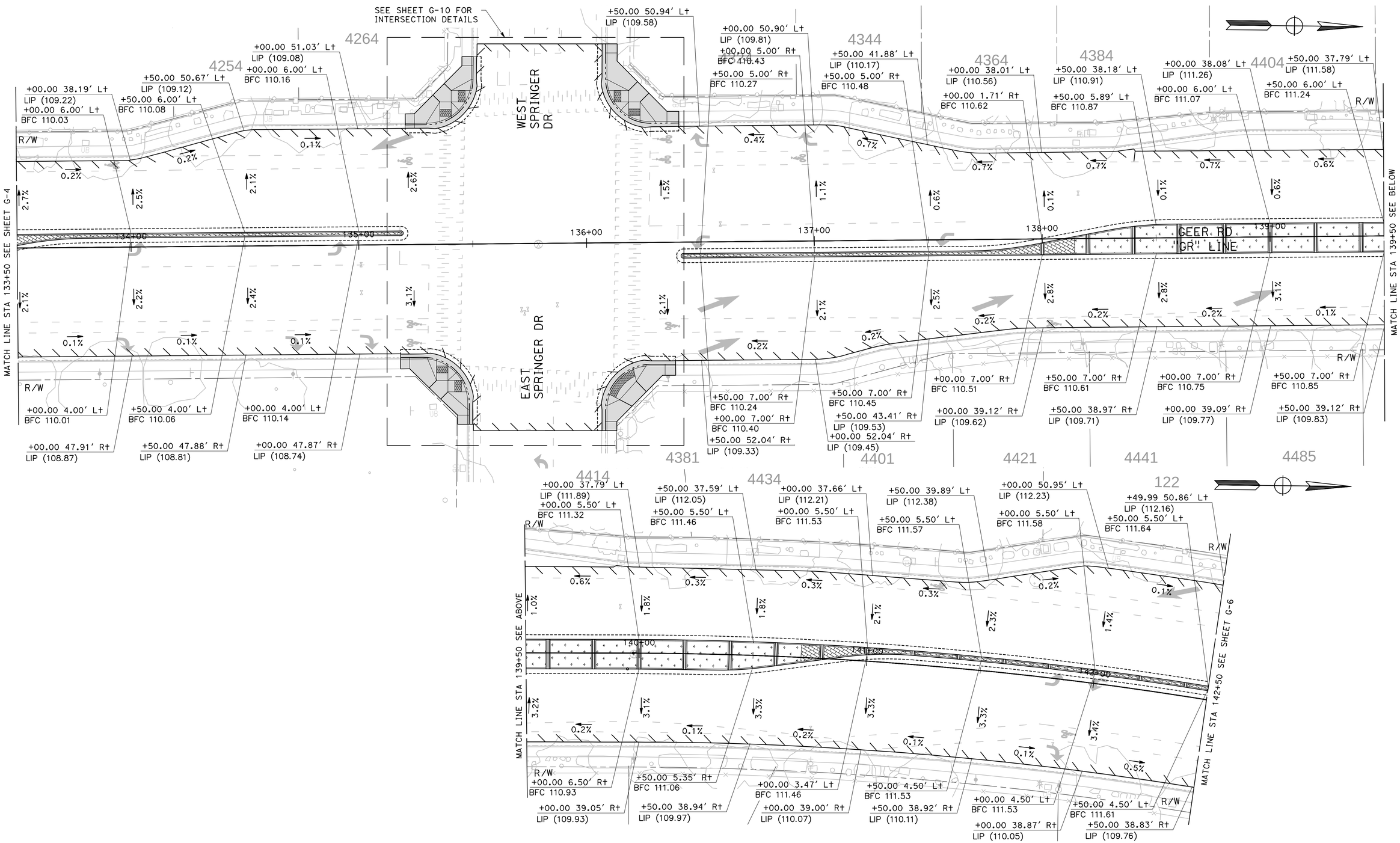
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

Sheet 199 of 256 Sheets

G-4



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JESSICA A. FORIEGA
No. E 73127
CIVIL
STATE OF CALIFORNIA

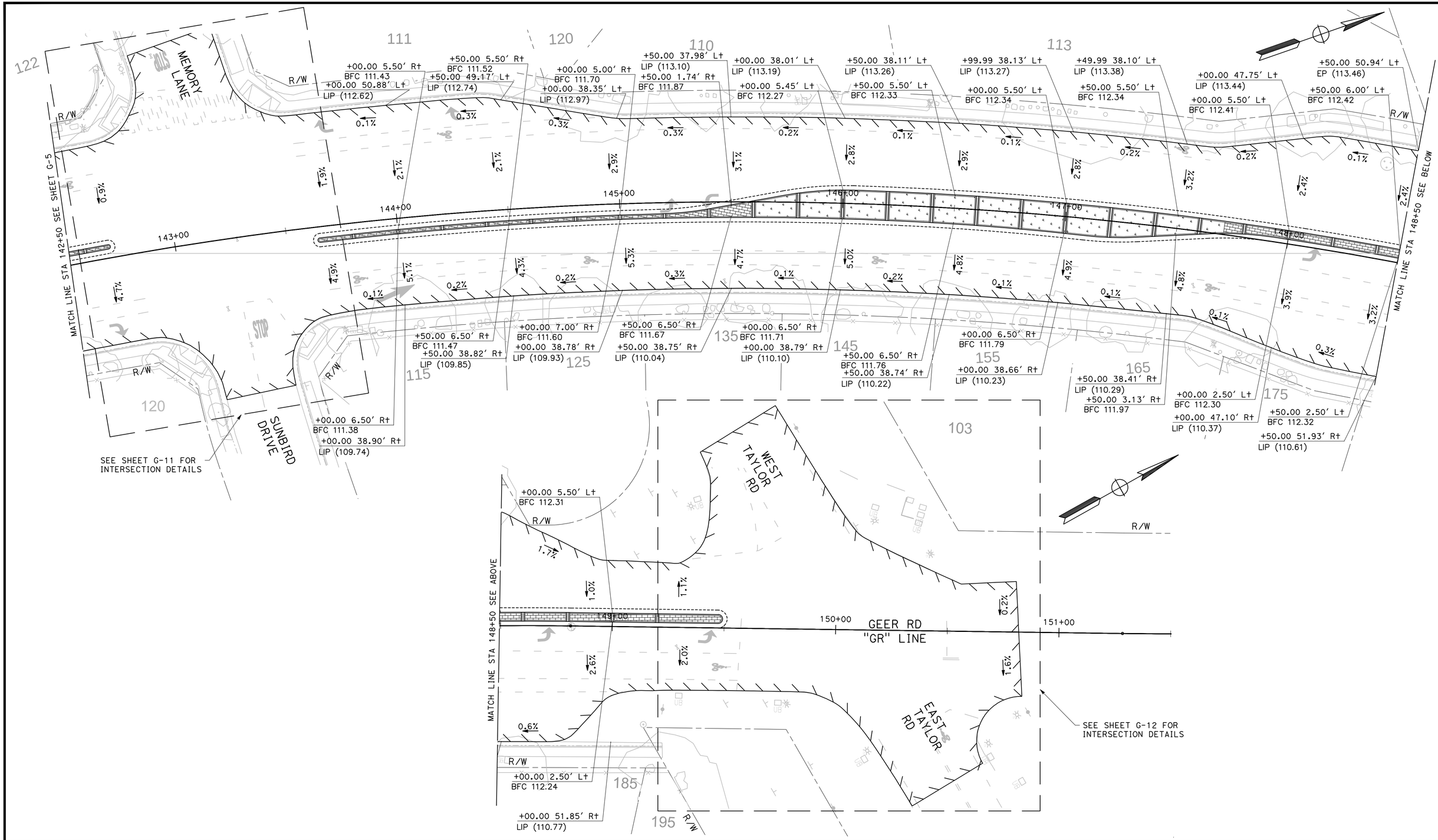
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

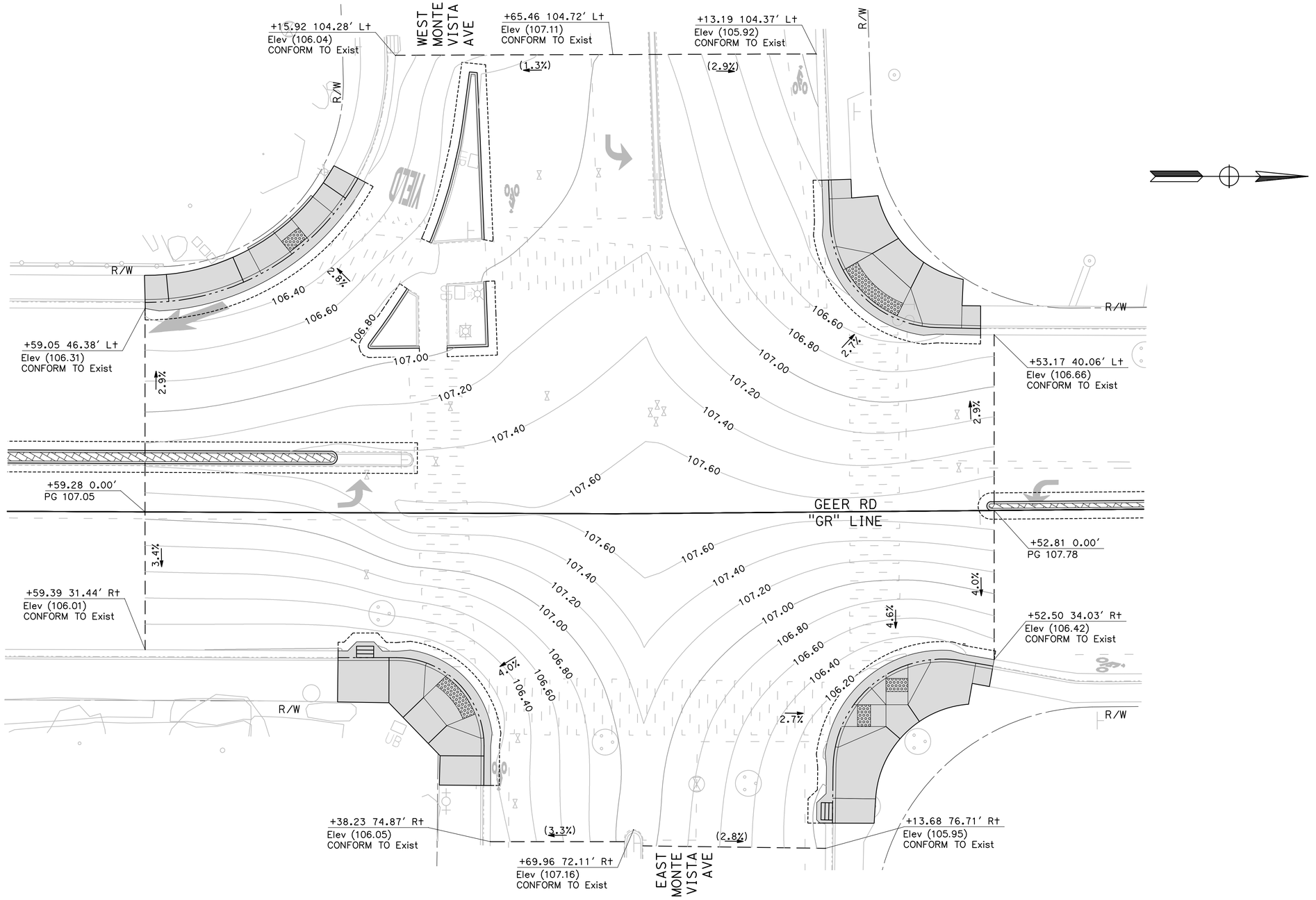
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

G-5



DESIGNED BY: M. CHOWDHURY DRAWN BY: M. CHOWDHURY CHECKED BY: J. HERNANDEZ SCALE: 1"=20' DATE: 6/08/2026 JOB NO.: 23-00242	NOTE: ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.	USA NORTH 811 Call 811 Before You Dig	SCALE 20 0 20 40	REGISTERED PROFESSIONAL ENGINEER EDUARDO A. ORTEGA No. 61555 6/30/27 CIVIL STATE OF CALIFORNIA	MARK THOMAS 7571 NORTH REMINGTON AVE, STE 102 FRESNO, CALIFORNIA 93711	CITY OF TURLOCK MUNICIPAL SERVICES DEPARTMENT ROADS PROGRAM DIVISION 156 S. BROADWAY AVE SUITE 150 (209) 668-5520	CITY OF TURLOCK GEER RD PAVEMENT REHAB PHASE 3 GRADING PLANS	Sheet 201 of 256 Sheets G-6



1 / G-7

MONTE VISTA AVE / GEER RD INTERSECTION DETAIL

SCALE: 1" = 12'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=12'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
12 0 12 24

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. MORIEGA
No. C 91542
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
GRADING PLANS

Sheet 202 of 256 Sheets

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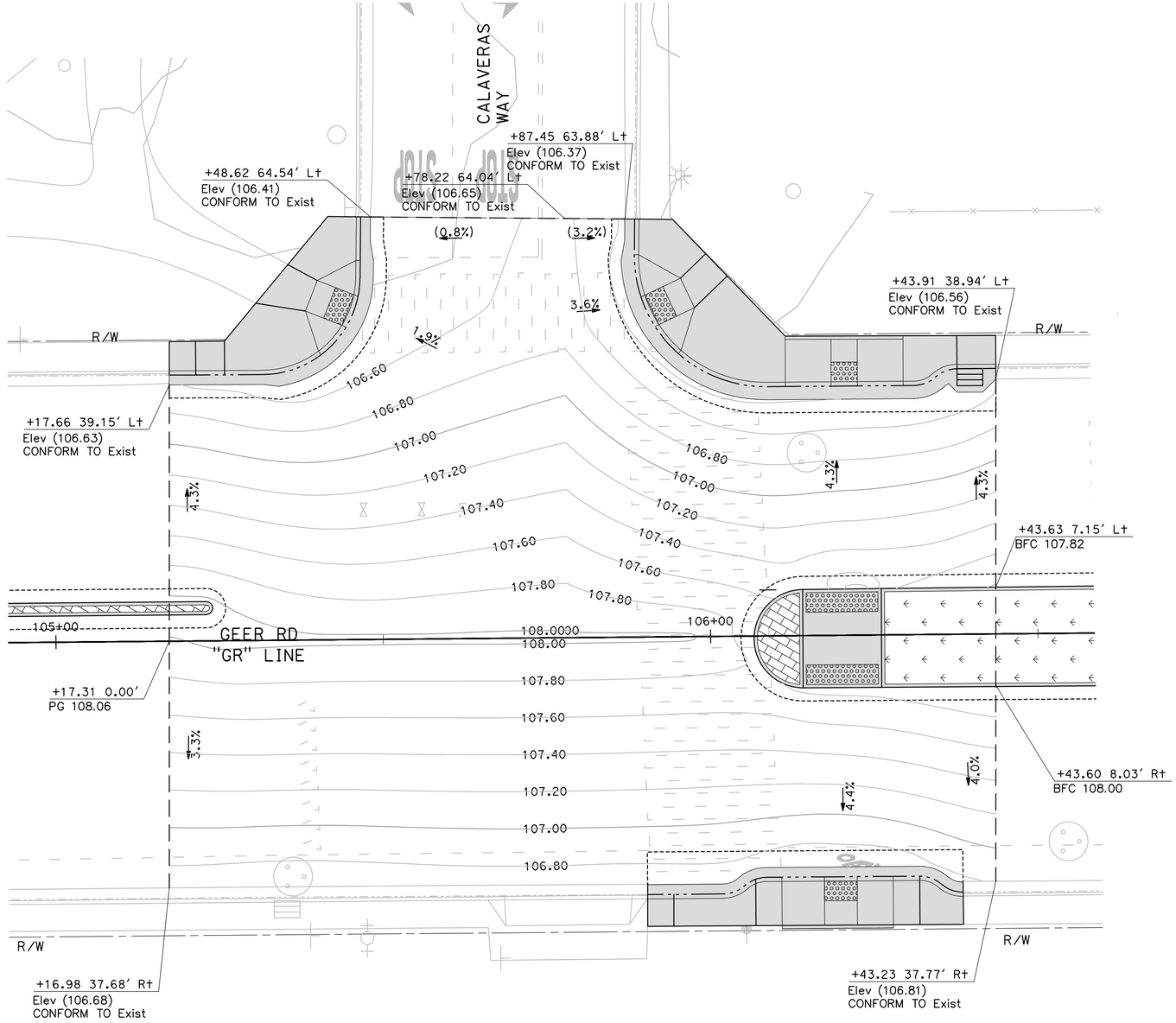

1
G-8

CALAVERAS WAY / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
JOSHUA M. HERNANDEZ
No. 84127
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

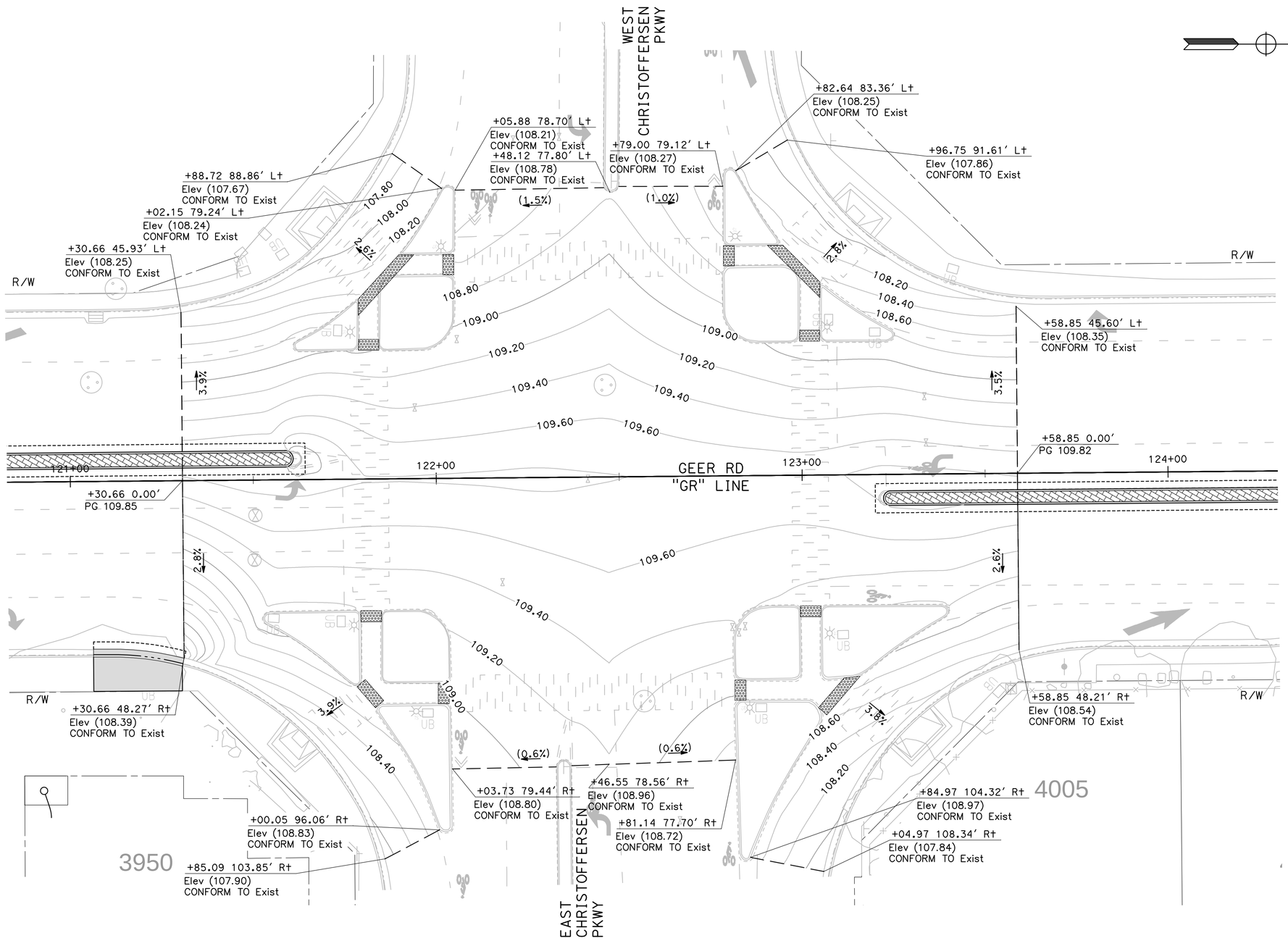
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
GRADING PLANS

Sheet 203 of 256 Sheets

G-8



1 / G-9

CHRISTOFFERSEN PKWY / GEER RD INTERSECTION DETAIL

SCALE: 1" = 15'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=15'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
15 0 15 30

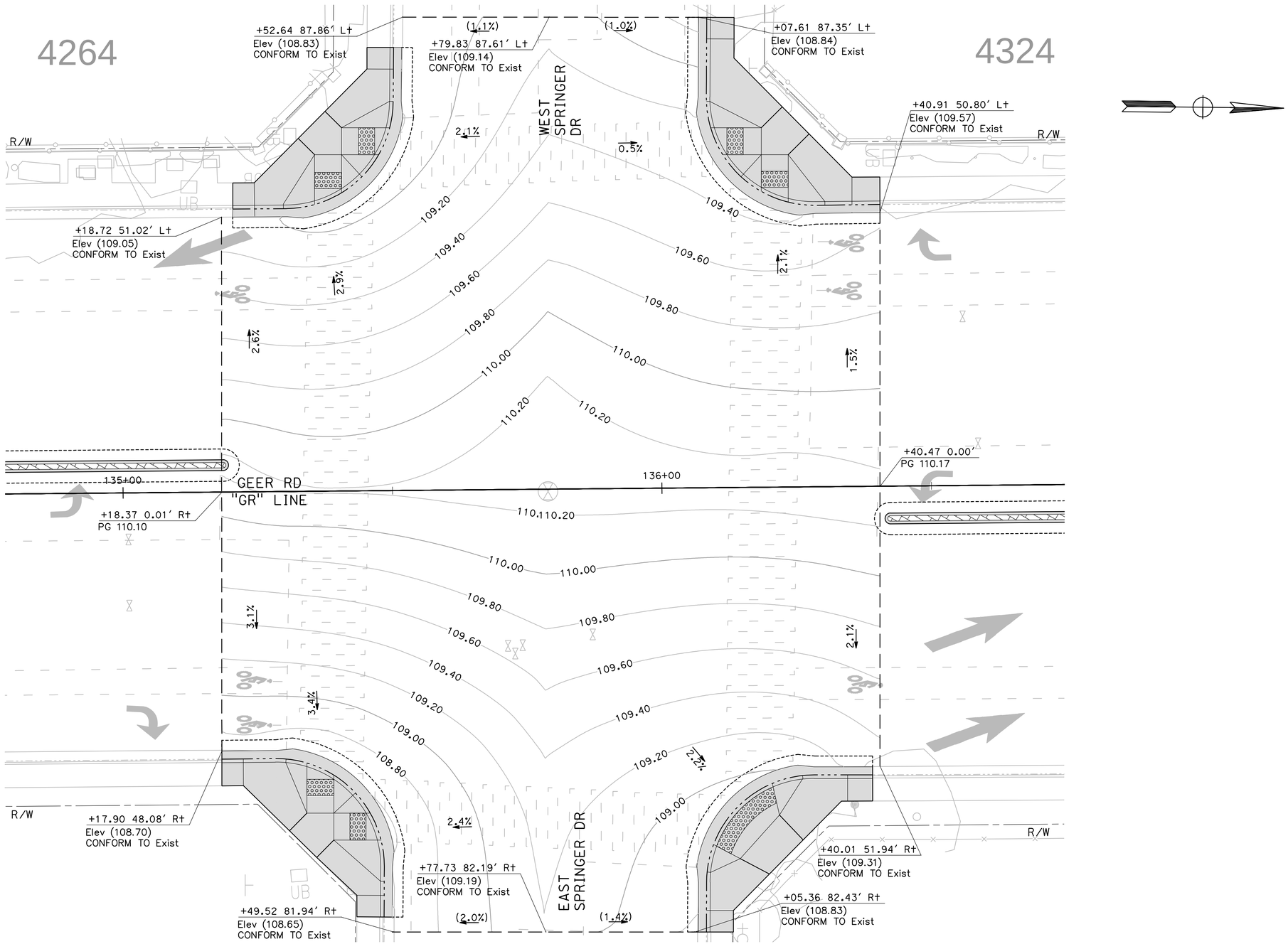
REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER A. NORIEGA — No. 61855 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS



1 / G-10

SPRINGER DR / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
10 0 10 20

REGISTERED PROFESSIONAL ENGINEER
ALEJANDRO R. MORIEGA
No. 61556
Exp. 6/30/2027
CIVIL
STATE OF CALIFORNIA

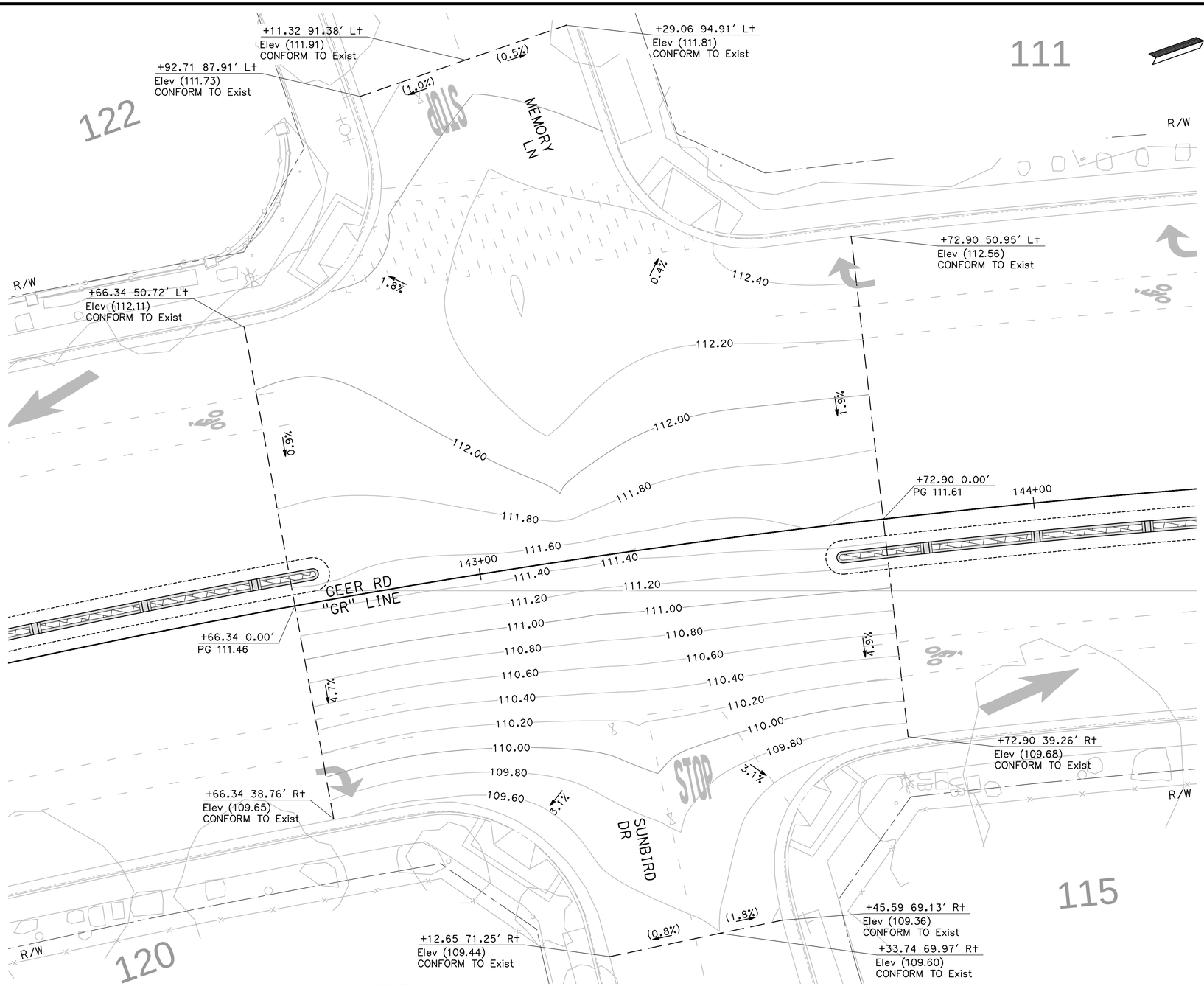
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
GRADING PLANS

Sheet 205 of 256 Sheets

G-10



1 / G-11 **MEMORY LN / SUNBIRD DR / GEER RD INTERSECTION DETAIL**

SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=10'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 10 0 10 20

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. MORIEGA No. C 61327 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

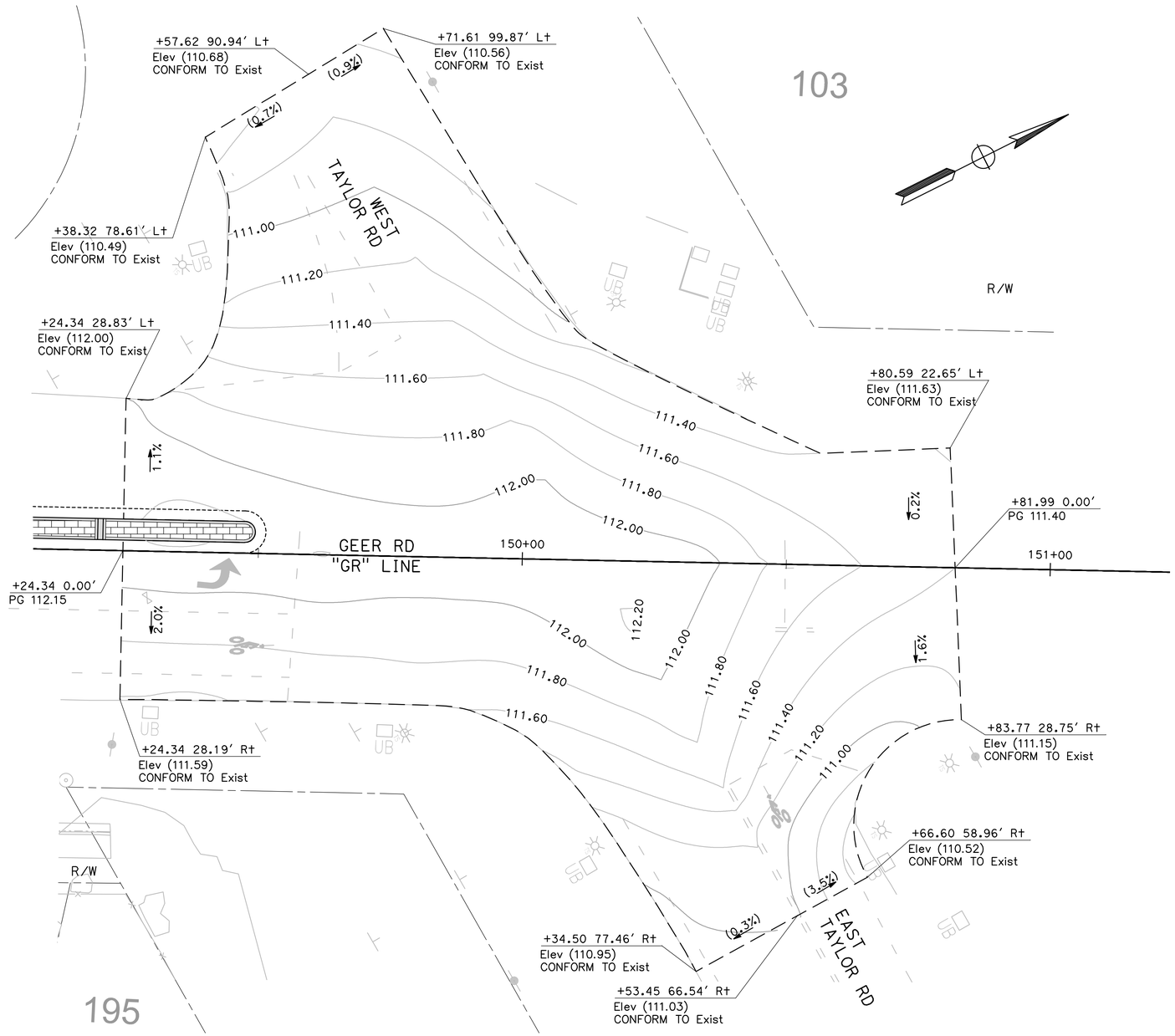
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

Sheet 206 of 256 Sheets

G-11



1 / G-12

TAYLOR RD / GEER RD INTERSECTION DETAIL

SCALE: 1" = 10'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=12'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
12 0 12 24

REGISTERED PROFESSIONAL ENGINEER — EDGAR A. MORENO — No. C61505 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
GRADING PLANS

Sheet 207 of 256 Sheets

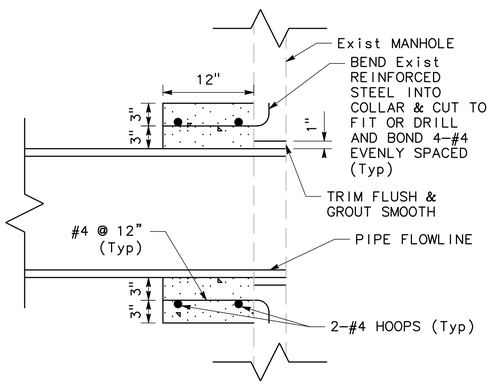
G-12

NOTE:

1. ALL CALLOUTS REFERENCE THE "GR" LINE UNLESS OTHERWISE NOTED.
2. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE FRAGILE ASBESTOS-CONCRETE WATER LINES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-8 "PRESERVATION OF PROPERTY" OF THE CITY STANDARD SPECIFICATIONS AND THE REQUIREMENTS WITHIN.
3. ALL STORM DRAIN PIPELINES SHALL BE INSPECTED AND TESTED PER SECTION 16-26 THRU 16-33 OF THE CITY OF TURLOCK STANDARDS.
4. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS, SURFACE FEATURE SURVEYS, AND LIMITED TEST HOLES. HORIZONTAL AND VERTICAL LOCATIONS ARE APPROXIMATE UNLESS EXPLICITLY LABELED "TEST HOLE VERIFIED." CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
5. LATERALS ARE ANTICIPATED TO BE SHALLOWER THAN DISTRIBUTION MAINS ALONG GEER ROAD. DO NOT PERFORM FDR WHERE EXISTING UTILITIES ARE LOCATED WITHIN 12 INCHES OF THE PLANNED DEPTH OF DISTURBANCE OR MAY BE IMPACTED BY FDR OPERATIONS. CONTRACTOR SHALL VERIFY UTILITY DEPTHS PRIOR TO WORK. WHERE CONFLICTS EXIST, OMIT FDR AND CONSTRUCT "SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION" PER THE SPECIFICATIONS AND DETAIL 2 ON THIS SHEET. NOTIFY THE ENGINEER PRIOR TO COMMENCING WORK IN CONFLICT AREAS.
6. IT IS POSSIBLE THAT NOT ALL SERVICE LATERALS WERE SHOWN ON UTILITY MAPPING PROVIDED BY UTILITY OWNERS. CONTRACTOR SHOULD ASSUME ALL PROPERTIES ALONG THE CORRIDOR HAVE ONE GAS AND WATER LATERAL SERVICING PROPERTIES ALONG THE CORRIDOR. CONTRACTOR TO FIELD VERIFY APPROXIMATE LOCATIONS BY LOCATING METER BOXES AND VALVES WHILE DOING PRELIMINARY SITE INVESTIGATIONS AND USA MARKINGS.

LEGEND:

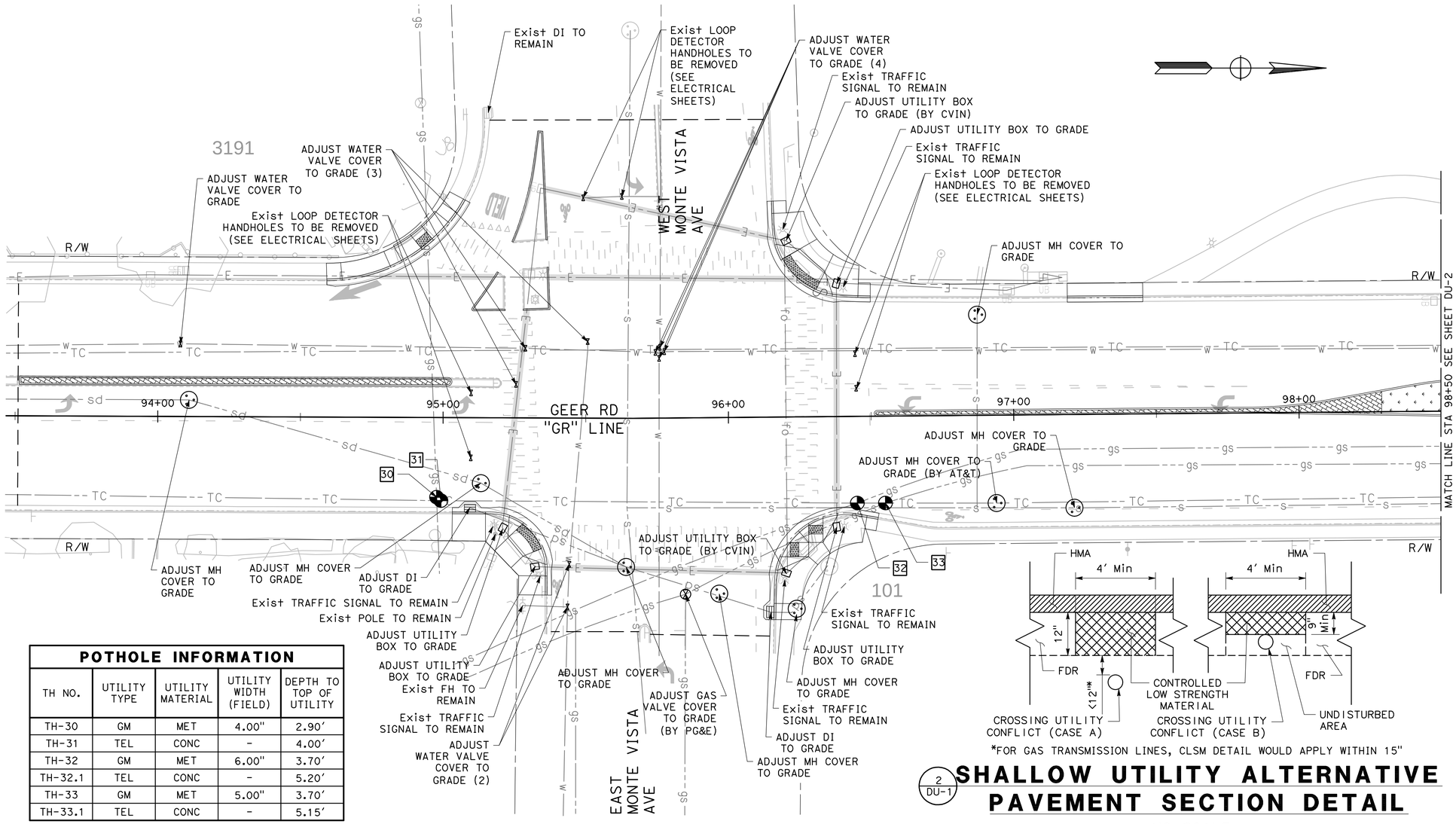
- Exist STORM DRAIN (CITY OF TURLOCK)
- Exist WATER (CITY OF TURLOCK)
- Exist SEWER (CITY OF TURLOCK)
- Exist GAS (PG&E)
- Exist OVERHEAD ELECTRICAL (TID)
- Exist OVERHEAD TELEPHONE (AT&T)
- Exist FIBER OPTIC (CVIN)
- Exist ELECTRICAL (TID)
- Exist ELECTRICAL (CITY OF TURLOCK)
- Exist JOINT OVERHEAD: TELECOM (CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- Exist JOINT OVERHEAD: TELECOM (AT&T, CHARTER COMMUNICATIONS) AND ELECTRIC (TID)
- Exist TELECOM (AT&T)
- Exist TELECOM (CHARTER COMMUNICATIONS)
- DRAINAGE SYSTEM (SEE DRAINAGE PROFILE SHEETS)
- POTHOLE LOCATION
- POTHOLE NUMBER
- SHALLOW UTILITY AREA - SEE SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL



1 DU-1

STORM DRAIN CONNECTION TO EXISTING MANHOLE DETAIL

NO SCALE



POTHOLE INFORMATION				
TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-30	GM	MET	4.00"	2.90'
TH-31	TEL	CONC	-	4.00'
TH-32	GM	MET	6.00"	3.70'
TH-32.1	TEL	CONC	-	5.20'
TH-33	GM	MET	5.00"	3.70'
TH-33.1	TEL	CONC	-	5.15'

*FOR GAS TRANSMISSION LINES, CLSM DETAIL WOULD APPLY WITHIN 15"

2 DU-1

SHALLOW UTILITY ALTERNATIVE PAVEMENT SECTION DETAIL

NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — THOMAS A. ROBLEGA — No. C 41654 — Exp. 6/30/2027 — CIVIL — STATE OF CALIFORNIA

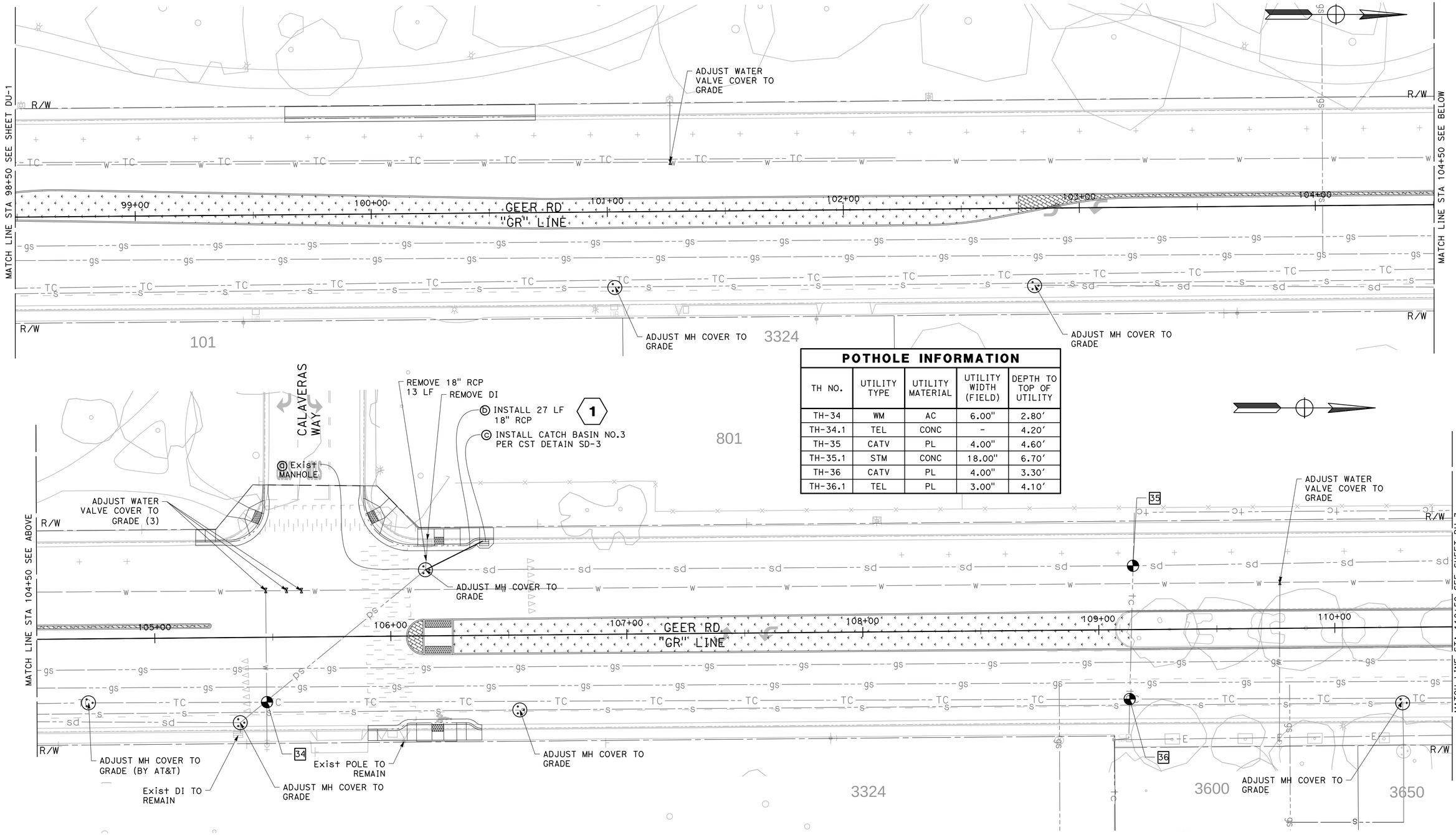
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
DRAINAGE UTILITIES

Sheet 208 of 256 Sheets

DU-1



POTHOLE INFORMATION

TH NO.	UTILITY TYPE	UTILITY MATERIAL	UTILITY WIDTH (FIELD)	DEPTH TO TOP OF UTILITY
TH-34	WM	AC	6.00"	2.80'
TH-34.1	TEL	CONC	-	4.20'
TH-35	CATV	PL	4.00"	4.60'
TH-35.1	STM	CONC	18.00"	6.70'
TH-36	CATV	PL	4.00"	3.30'
TH-36.1	TEL	PL	3.00"	4.10'

DESIGNED BY: M. CHOWDHURY
DRAWN BY: M. CHOWDHURY
CHECKED BY: J. HERNANDEZ
SCALE: 1"=20'
DATE: 6/08/2026
JOB NO.: 23-00242

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REGISTERED PROFESSIONAL ENGINEER THOMAS A. MORIEGA No. 61554 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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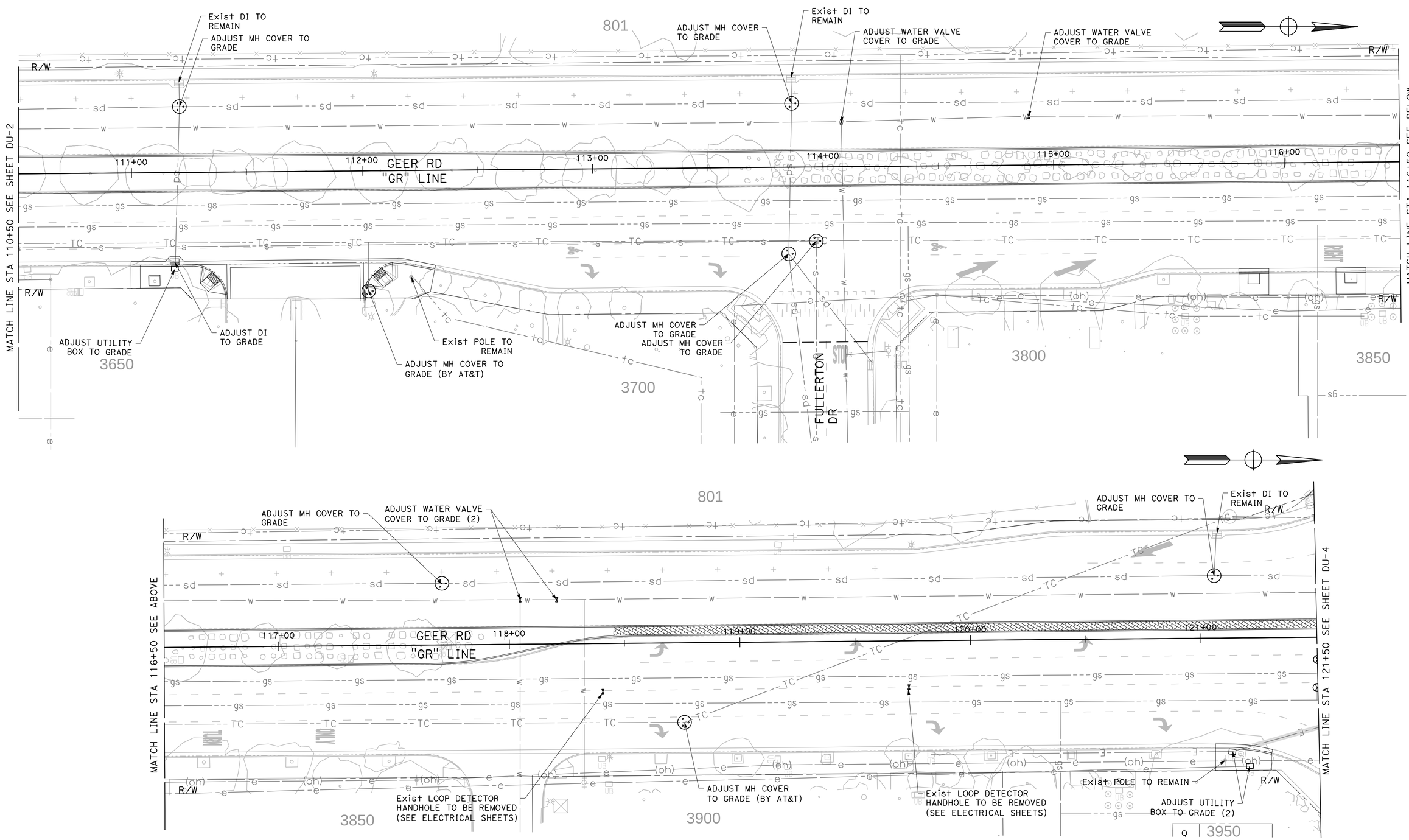
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE UTILITIES

Sheet 209 of 256 Sheets

DU-2



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
EDUARDO A. MORIEGA
No. 61556
6/30/27
CIVIL
STATE OF CALIFORNIA

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE UTILITIES

DU-3

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE (2)

R/W

WEST CHRISTOFFERSEN PKWY

Exist LOOP DETECTOR HANDHOLES TO BE REMOVED (SEE ELECTRICAL SHEETS)

ADJUST GAS VALVE COVER TO GRADE (3, BY PG&E)

4131

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE

R/W

MATCH LINE STA 121+50 SEE SHEET DU-3

122+00

123+00

GEER RD
"GR" LINE

124+00

125+00

126+00

127+00

MATCH LINE STA 127+50 SEE BELOW

EAST CHRISTOFFERSEN PKWY

ADJUST WATER VALVE COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE (2)

ADJUST MH COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE

ADJUST GAS VALVE COVER TO GRADE (2, BY PG&E)

ADJUST MH COVER TO GRADE

ADJUST MH COVER TO GRADE (BY AT&T)

4025

4045

4065

4075

4005

4131

ADJUST GAS VALVE COVER TO GRADE (BY PG&E)

Exist DI TO REMAIN

ADJUST UTILITY BOX TO GRADE

ADJUST MH COVER TO GRADE

4201

4234

R/W

MATCH LINE STA 127+50 SEE ABOVE

128+00

129+00

130+00

GEER RD
"GR" LINE

131+00

132+00

133+00

MATCH LINE STA 133+50 SEE SHEET DU-5

SAI LN

ADJUST WATER VALVE COVER TO GRADE (3)

105

4250

ADJUST DI TO GRADE

ADJUST WATER VALVE COVER TO GRADE

ADJUST WATER VALVE COVER TO GRADE (3)

Exist LOOP DETECTOR HANDHOLE TO BE REMOVED (SEE ELECTRICAL SHEETS)

4300

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. MORIEGA
No. 61558
Exp. 6/30/27
CIVIL
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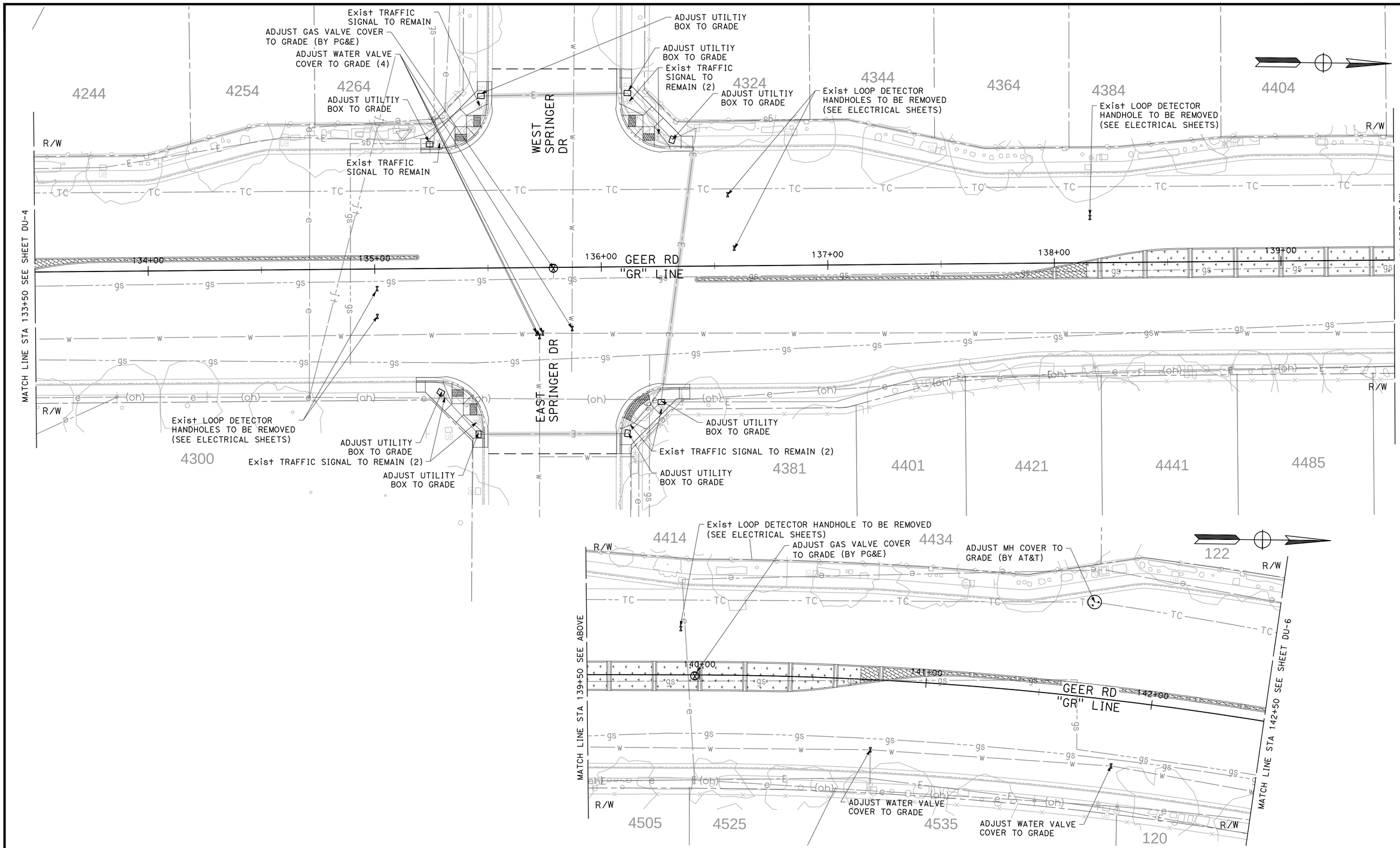
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE UTILITIES

Sheet 211 of 256 Sheets

DU-4



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
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REGISTERED PROFESSIONAL ENGINEER
JOSHUA R. TORREGA
No. E-87122
Exp. 6/30/27
CIVIL
STATE OF CALIFORNIA

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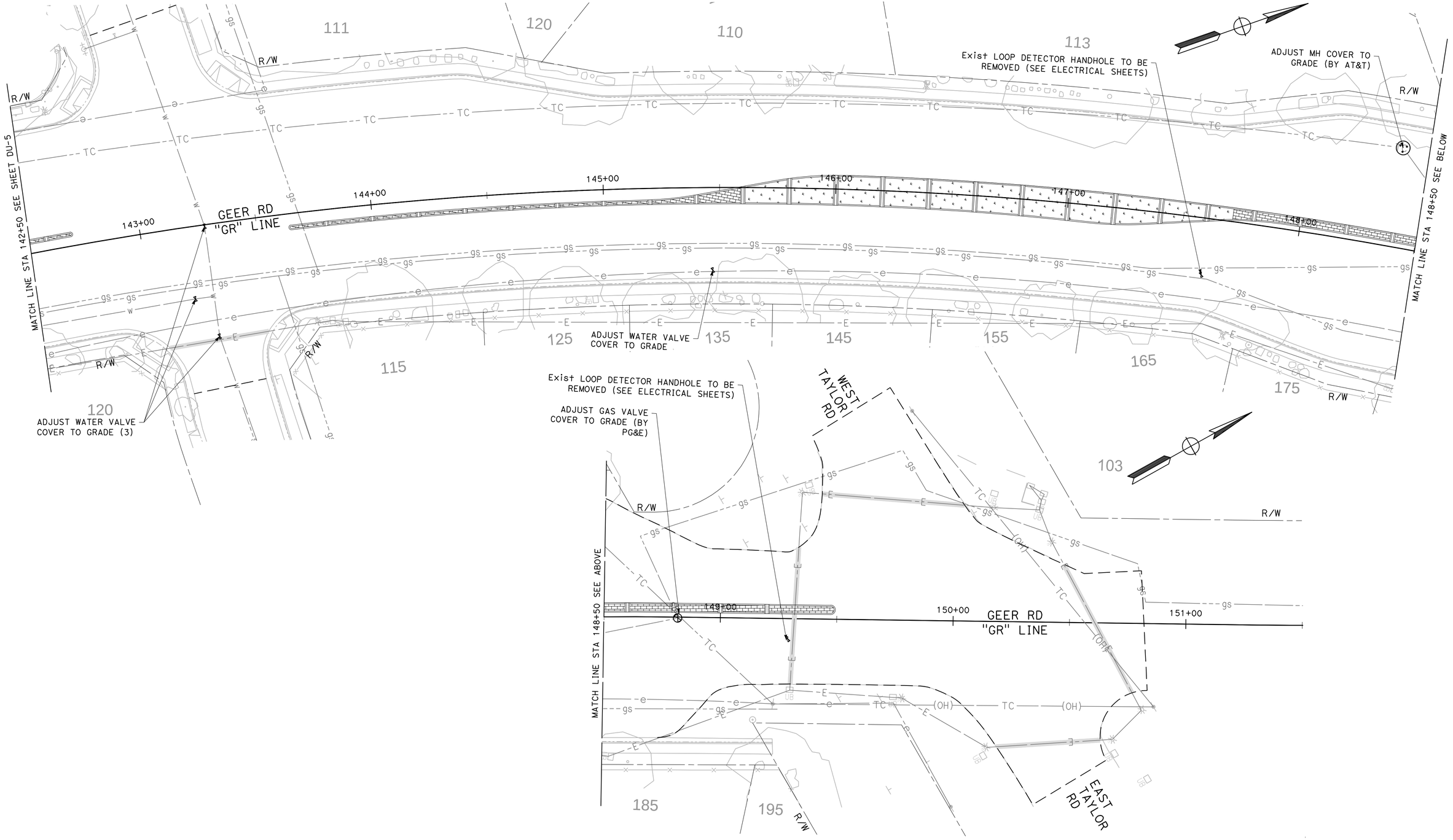
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE UTILITIES

Sheet 212 of 256 Sheets

DU-5



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. KOREGA No. 84156 Exp. 6/30/27 CIVIL STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
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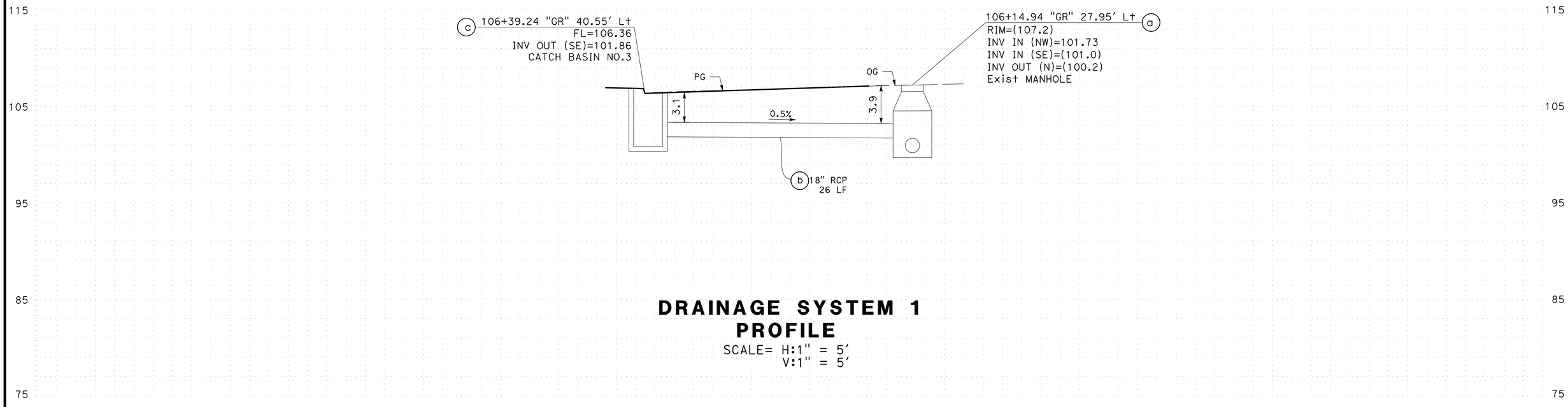
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE UTILITIES

Sheet 213 of 256 Sheets

DU-6



DRAINAGE SYSTEM 1
PROFILE

SCALE= H:1" = 5'
V:1" = 5'

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	AS SHOWN
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE

REGISTERED PROFESSIONAL ENGINEER — OSCAR A. MORIEGA — No. 61558 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
DRAINAGE PROFILES

DP-1

TRAFFIC CONTROL GENERAL NOTES:

1. VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 601-2 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CONTACT THE PUBLIC WORKS TRAFFIC CONTROL SECTION AT (209) 668-5520 TO OBTAIN A PERMIT. THE CONTRACTOR MUST SUBMIT A COMPLETED TRAFFIC CONTROL PERMIT FORM A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN WORK WILL AFFECT A TRAFFIC SIGNAL.

2. STANDARDS: THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO EACH OF THE FOLLOWING MANUALS:

EDITION	DESCRIPTION
2014	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REVISION 9 (CA MUTCD)
2016	CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS
2024	CALTRANS STANDARD PLANS

3. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY RELEVANT AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL.

4. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

5. POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING SIGNS FORTY-EIGHT (48) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.

6. EXCAVATIONS: EXCEPT AS OTHERWISE SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY, AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED, UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC, WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS OPEN TO THE APPROPRIATE TRAFFIC EXCEPT AS OTHERWISE SHOWN ON THE PLANS.

7. RESTORATION OF TRAFFIC CONTROL DEVICES: THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.

8. TEMPORARY TRAFFIC SIGNAL DETECTION: THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION FOR A PERIOD OF FIVE (5) OR MORE DAYS. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL INSTALLATION AND REMOVALS ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

9. CHANGE IN WORK: THE CITY ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVE THE RIGHT TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT, ANY CHANGES SHALL BE DOCUMENTED AND SUPERCEDE THESE PLANS.

10. OPEN TRENCH: THE CONTRACTOR SHALL PLACE "OPEN TRENCH" SIGNS (C27(CA)) ON TYPE BARRICADES WITHIN THE WORK ZONE, AHEAD OF ANY WORK AREA WHICH INCLUDES OPEN TRENCHES IN EXCESS OF THREE (3) INCHES IN DEPTH, PER CA MUTCD SECTION 6F.103 (CA) GUIDELINES.

11. FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS: THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE CITY RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE WORKING DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE PUBLIC WORKS TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT FOR THIS WORK.

12. CONTRACTOR SHALL INSTALL UNEVEN PAVEMENT SIGNS C46 (CA) ALONG THE EDGE OF AREAS WHERE A STEP OF 1"-2" EXISTS WHETHER PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAVEL.

13. SEE TABLE 6H-3 IN THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) FOR MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS.

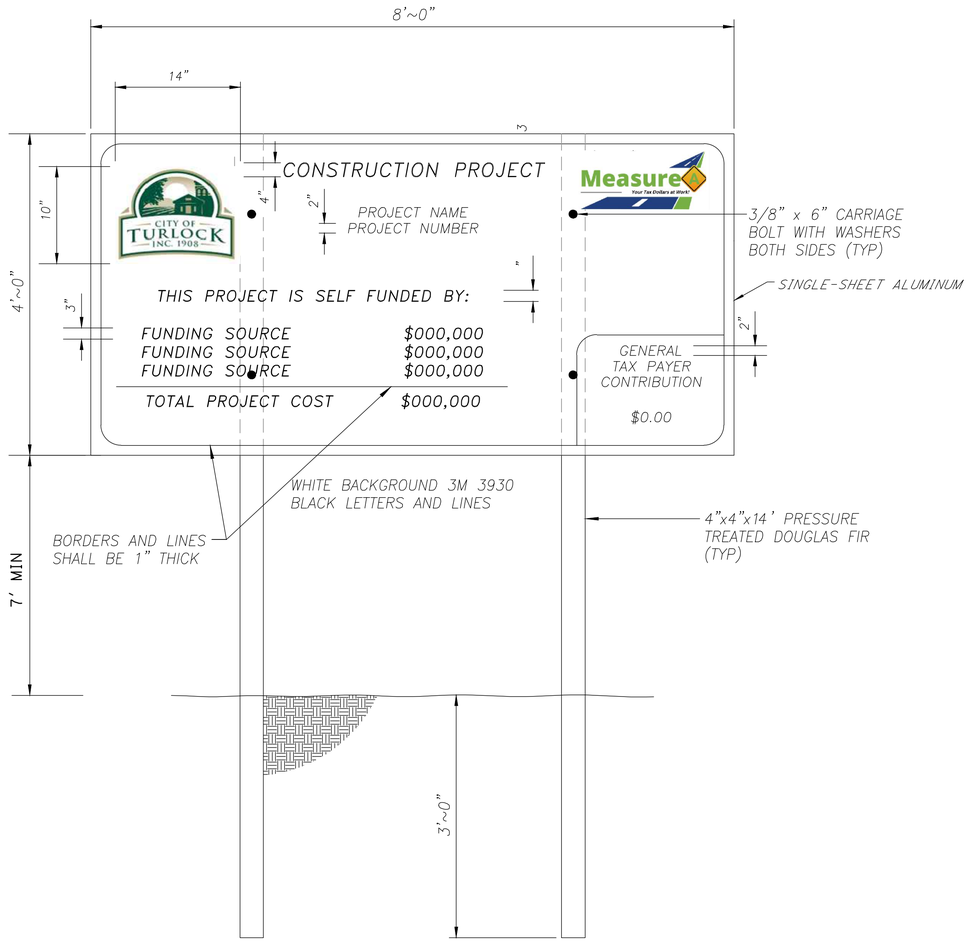
14. CONTRACTOR SHALL DEPLOY EIGHT (8) PORTABLE CHANGEABLE MESSAGE SYSTEMS (PCMS) THROUGHOUT CONSTRUCTION, WITH FINAL PLACEMENT TO BE DETERMINED BY ENGINEER.

15. CONSTRUCTION FUNDING SIGN PLACEMENT TO BE DETERMINED BY THE ENGINEER.

16. STREET CLOSURES AND DETOURS WILL NOT BE NECESSARY FOR THE PLACEMENT OF THE TEMPORARY HMA IN THE 2' SAWCUT AREAS. THE CONTRACTOR SHALL KEEP STREETS OPEN TO TRAFFIC WHILE TEMPORARY HMA IS BEING PLACED.

17. INTERSECTION RECONSTRUCTION SHOULD BE CARRIED OUT IN PHASES SO THAT THE INTERSECTION STAYS OPEN THROUGHOUT THE PAVEMENT CONSTRUCTION PROCESS. TRAFFIC IS TO REMAIN OPEN AT ALL TIMES.

18. AT EACH COMMERCIAL DRIVEWAY WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL FURNISH AND INSTALL, ON A TYPE III BARRICADE, A 4'x4' TEMPORARY SINGLE-SHEET ALUMINUM SIGN STATING "BUSINESS OPEN DURING CONSTRUCTION".



1 / TH-1 **CONSTRUCTION FUNDING SIGN**

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	NO SCALE
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE

REGISTERED PROFESSIONAL ENGINEER JESSE A. ORTEGA No. E/30722 CIVIL STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
TRAFFIC HANDLING PLANS

Sheet 215 of 256 Sheets

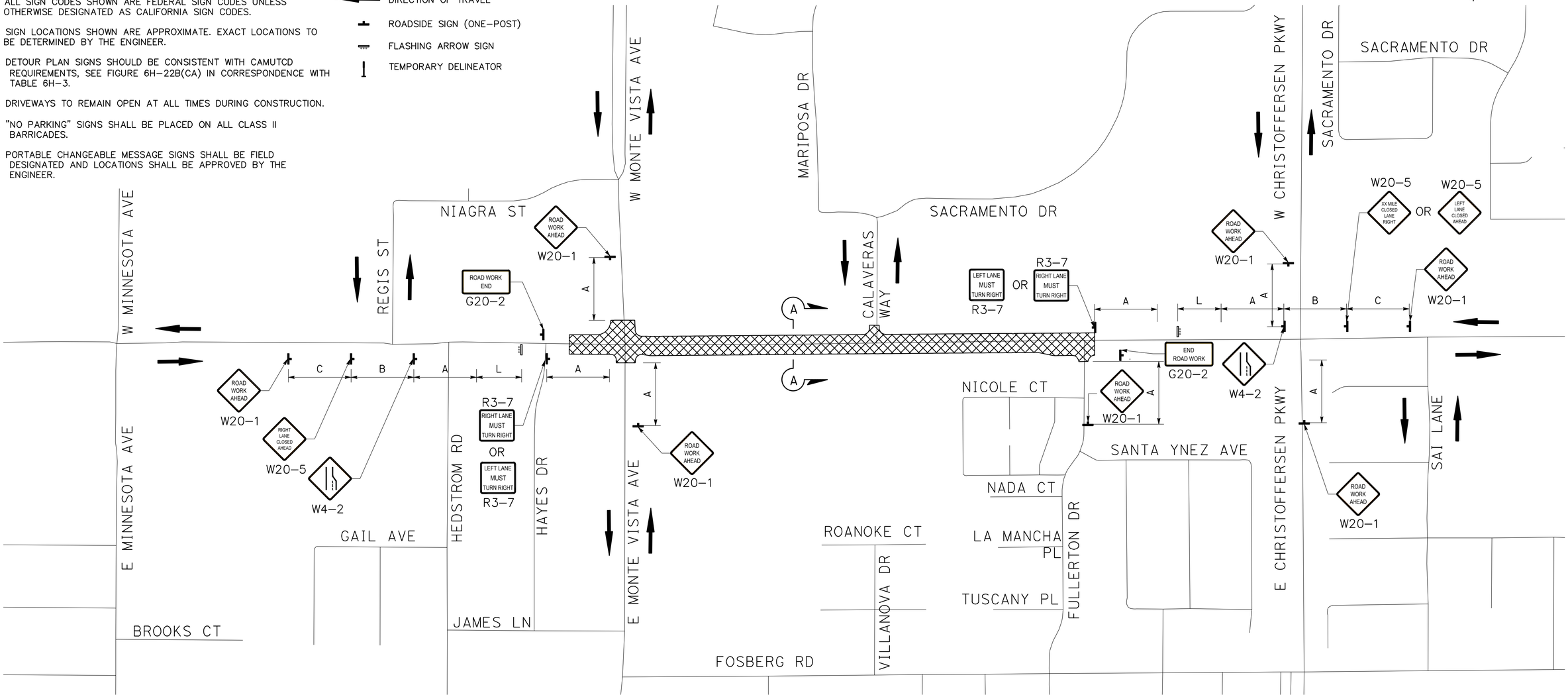
TH-1

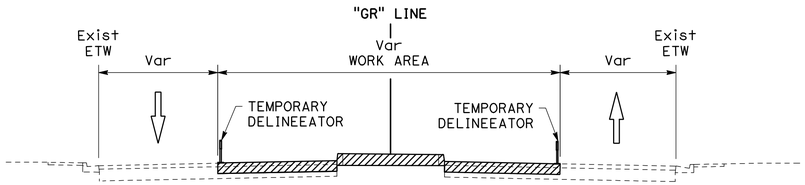
NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. DETOUR PLAN SIGNS SHOULD BE CONSISTENT WITH CAMUTCD REQUIREMENTS, SEE FIGURE 6H-22B(CA) IN CORRESPONDENCE WITH TABLE 6H-3.
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

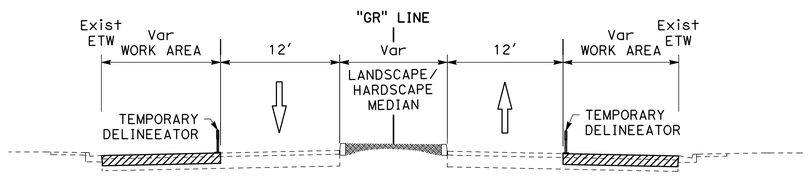
LEGEND:

- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE-POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 1A: INSIDE LANE CLOSURE
SECTION A-A
NO SCALE



STAGE 1B: OUTSIDE LANE CLOSURE
SECTION A-A
NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=200'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
200 0 200 400

REGISTERED PROFESSIONAL ENGINEER — OSCAR A. MORIEGA — No. 81454 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
TRAFFIC HANDLING PLANS

Sheet 216 of 256 Sheets

TH-2

NOTES:

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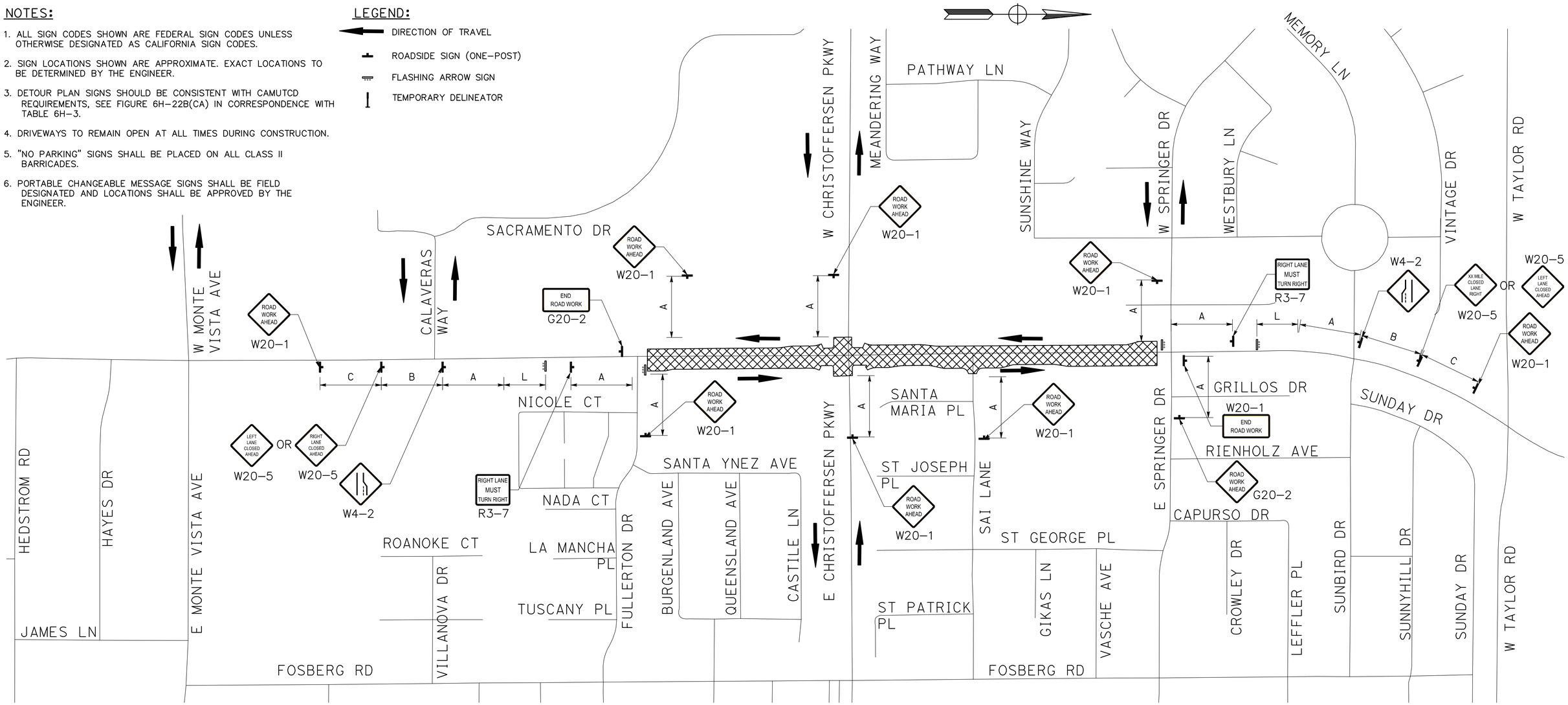
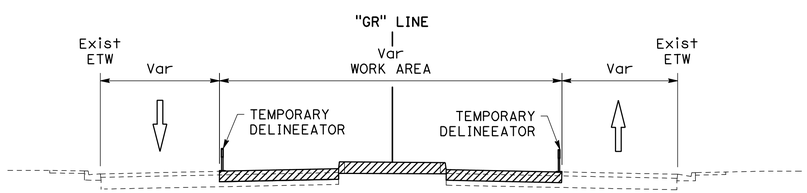
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

LEGEND:

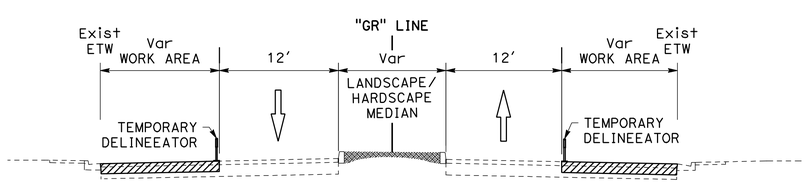
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE-POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 2A: INSIDE LANE CLOSURE SECTION A-A

NO SCALE



STAGE 2B: OUTSIDE LANE CLOSURE SECTION A-A

NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=200'
DATE:	6/08/2026
JOB NO.:	23-00242

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SCALE
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REGISTERED PROFESSIONAL ENGINEER — DOUGLAS A. TORIGA — No. 61556 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
TRAFFIC HANDLING PLANS

Sheet 217 of 256 Sheets

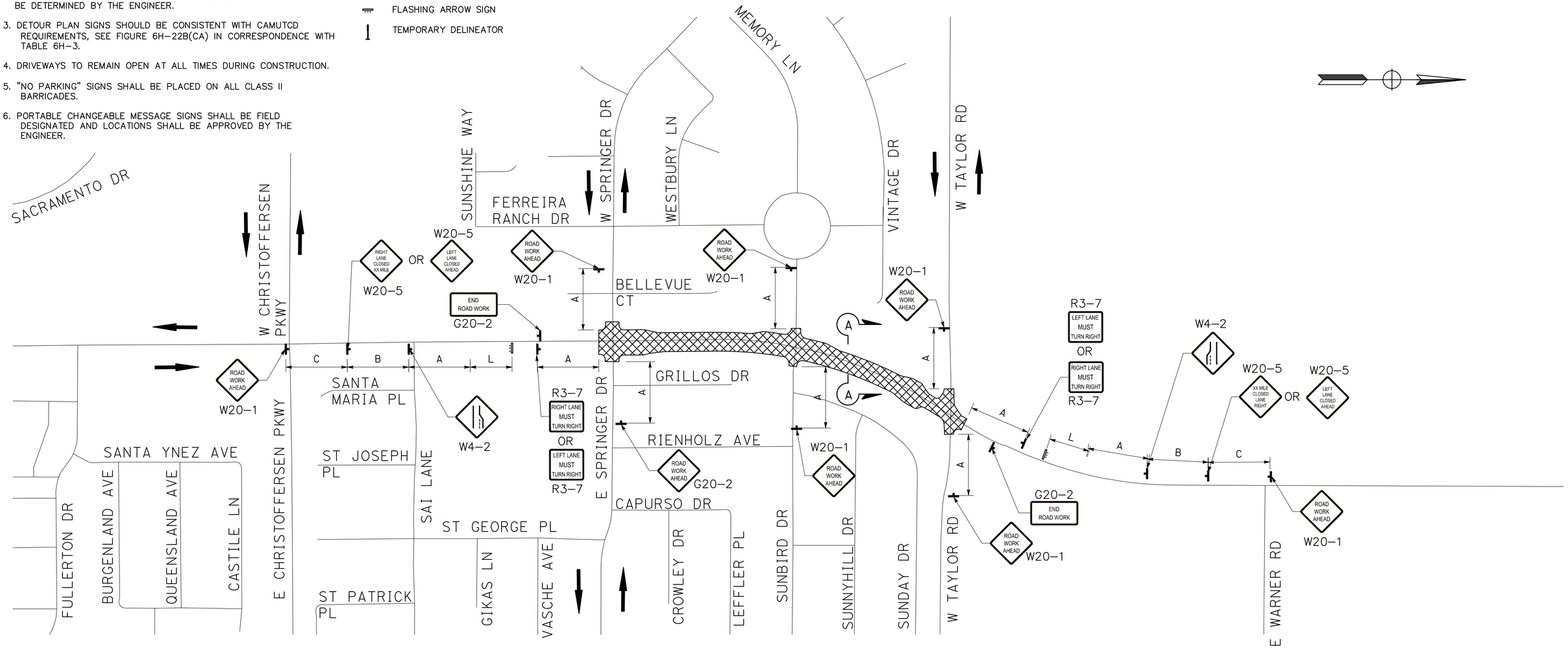
TH-3

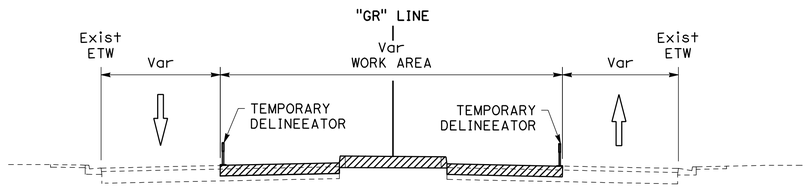
NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. DETOUR PLAN SIGNS SHOULD BE CONSISTENT WITH CAMUTCD REQUIREMENTS, SEE FIGURE 6H–22B(CA) IN CORRESPONDENCE WITH TABLE 6H–3.
4. DRIVEWAYS TO REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
5. "NO PARKING" SIGNS SHALL BE PLACED ON ALL CLASS II BARRICADES.
6. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FIELD DESIGNATED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

LEGEND:

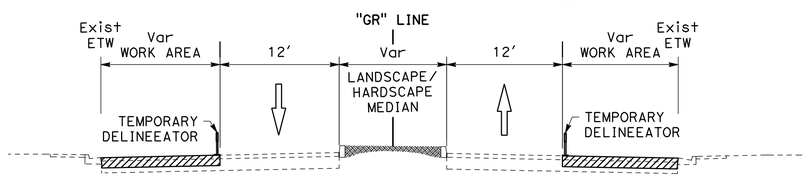
- DIRECTION OF TRAVEL
- ROADSIDE SIGN (ONE–POST)
- FLASHING ARROW SIGN
- TEMPORARY DELINEATOR





STAGE 3A: INSIDE LANE CLOSURE SECTION A-A

NO SCALE



STAGE 3B: OUTSIDE LANE CLOSURE SECTION A-A

NO SCALE

DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=200'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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REGISTERED PROFESSIONAL ENGINEER — ANDREW A. MORIEGA — No. 61455 — Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

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ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
TRAFFIC HANDLING PLANS

Sheet 218 of 256 Sheets

TH-4

NOTES:

1. ALL TRAFFIC STRIPES & PAVEMENT MARKINGS TO BE THERMOPLASTIC AND PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
2. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
3. EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
4. SIGN NUMBER PER CALIFORNIA MUTCD 2014 EDITION.
5. IN LOCATIONS WHERE CURB AND GUTTER IS RECONSTRUCTED IN FRONT OF A FIRE HYDRANT, CONTRACTOR TO REPLACE BLUE PAVEMENT MARKER (BB) PER CITY OF TURLOCK DETAIL W-3.
6. INSTALL 6" WHITE DIAGONAL STRIPING AT @ 20' SPACING AT BIKE LANE BUFFER LOCATIONS AS SEEN ON PLANS.
7. CONTRACTOR TO INSTALL BICYCLE LOOP DETECTION PAVEMENT MARKINGS ACCORDING TO ELECTRICAL SHEETS.

ABBREVIATIONS:

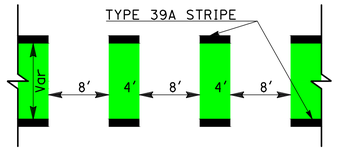
SNS	STREET NAME SIGN
SSBM	STRAP AND SADDLE BRACKET METHOD

LEGEND:

No. L=XX'	CALTRANS STRIPING DETAIL NUMBER L= LENGTH
⬢	EXISTING ROADSIDE SIGN TO REMAIN
✳	INSTALL ROADSIDE SIGN
▲	RELOCATE EXISTING ROADSIDE SIGN
■	RESET EXISTING ROADSIDE SIGN
♦	REMOVE EXISTING ROADSIDE SIGN
⊥	EXISTING ROADSIDE SIGN LOCATION
⊸	ROADSIDE SIGN LOCATION (ONE-POST)
▲▲▲▲	YIELD LINES
◬	ANGLE POINT

CONSTRUCTION NOTES:

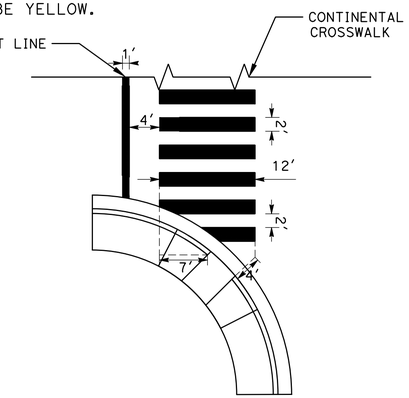
1. INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE & STOP LETTERS
2. INSTALL CONTINENTAL CROSSWALK PER CITY OF TURLOCK STANDARD PLAN C-17 (MODIFIED)
3. INSTALL WHITE THERMOPLASTIC YIELD LINE PER MUTCD FIGURE 3B-16
4. INSTALL COLORED BIKE LANE CONFLICT STRIPING PER DETAIL 1, THIS SHEET
5. INSTALL RED PAINTED CURB



1 GREEN BIKE LANE CONFLICT ZONE

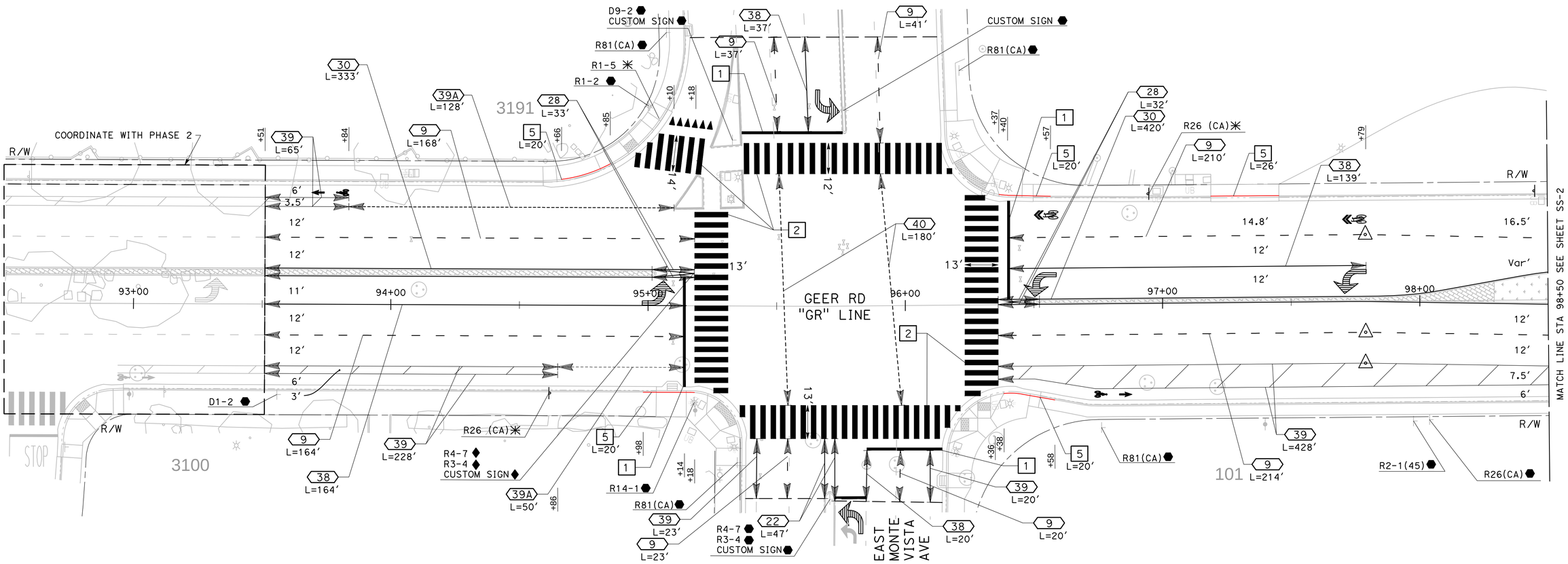
NO SCALE

NOTE:
ALL CROSSWALK MUST BE WHITE EXCEPT THOSE NEAR SCHOOLS MUST BE YELLOW.



2 LIMIT LINE/ CROSSWALK DETAIL

NO SCALE



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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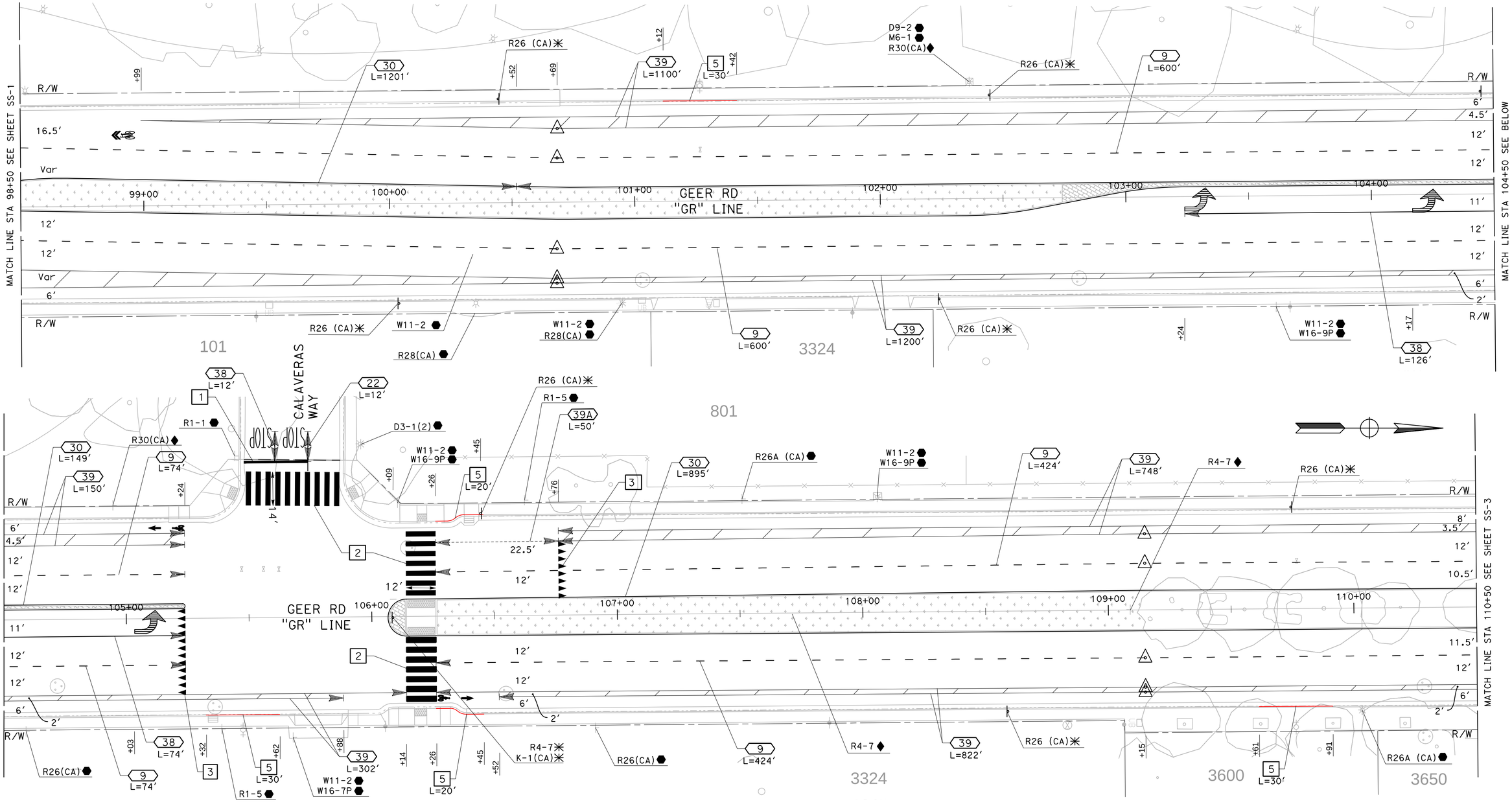
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
SIGNING AND STRIPING

Sheet 219 of 256 Sheets

SS-1



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
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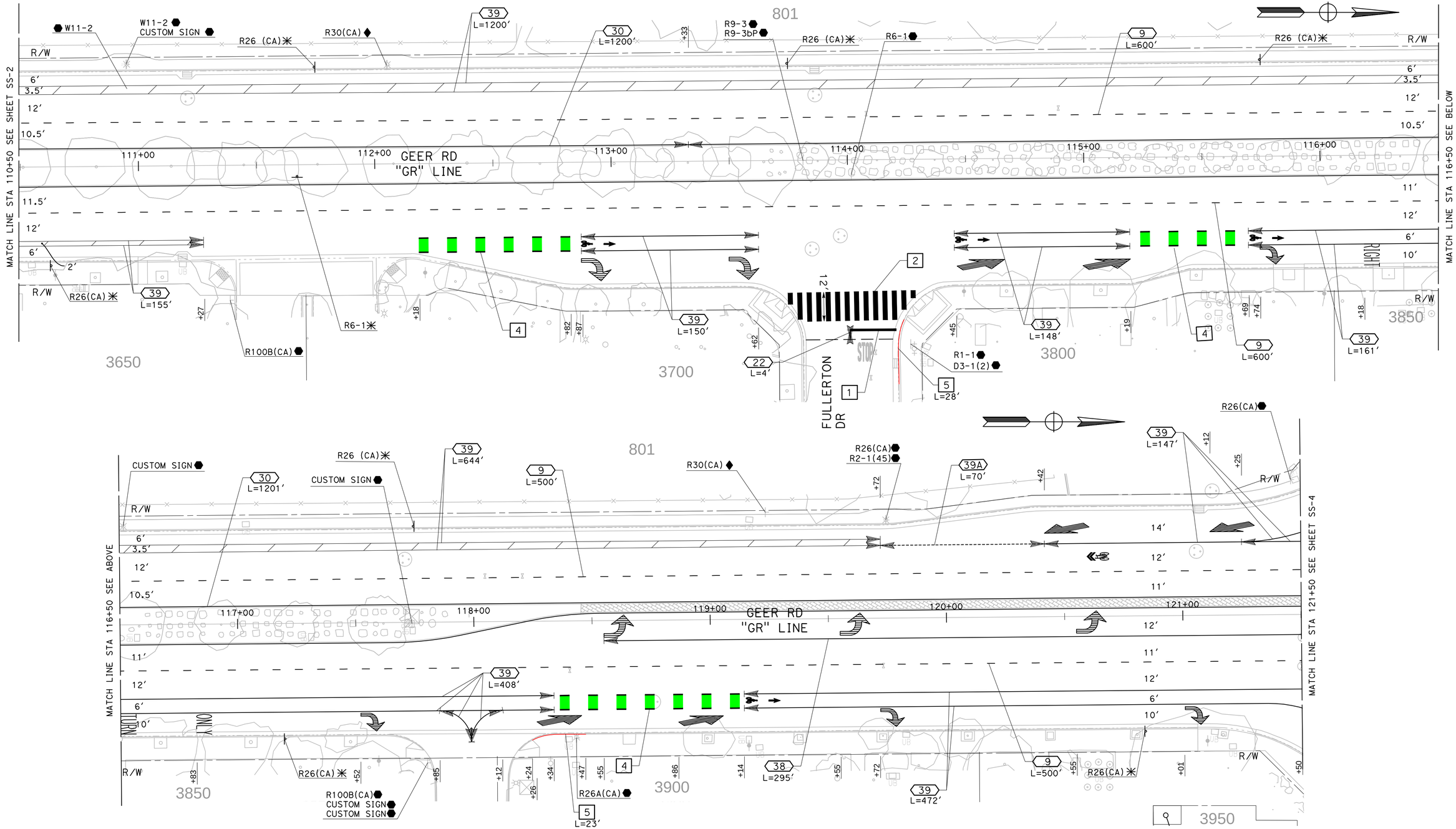
CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
SIGNING AND STRIPING

SS-2



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20′
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
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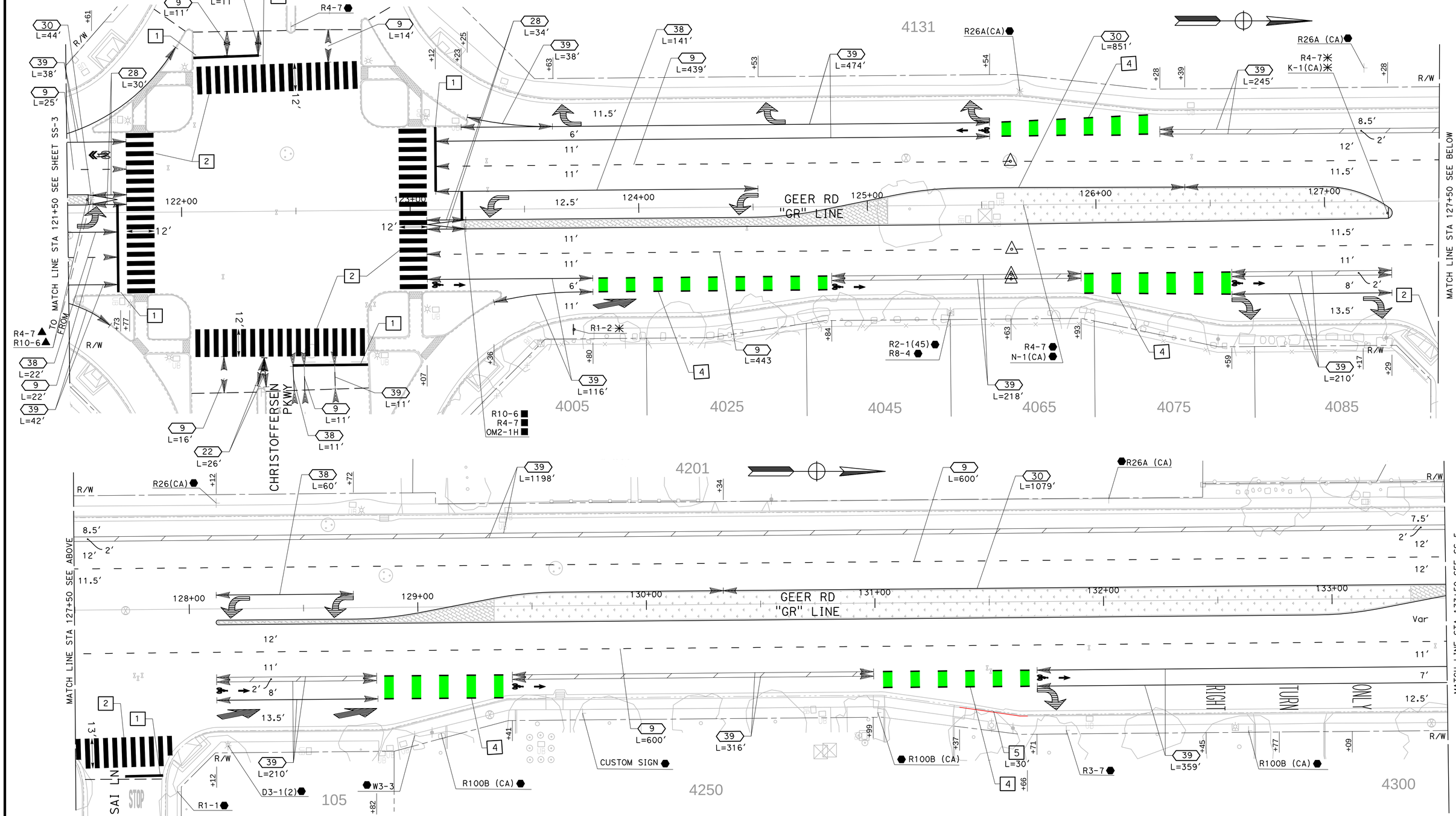
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
SIGNING AND STRIPING

Sheet 221 of 256 Sheets

SS-3



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
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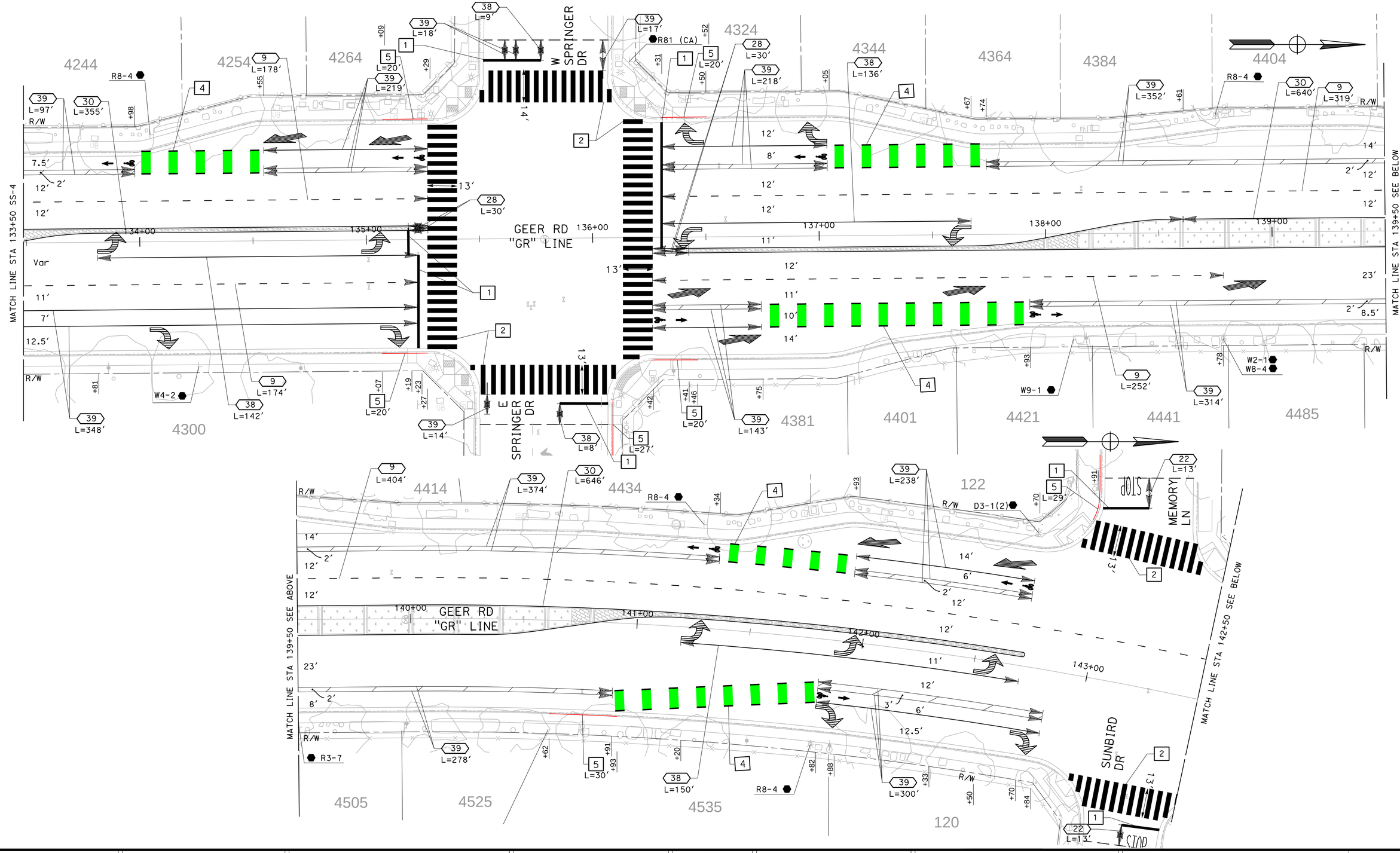
GEER RD PAVEMENT REHAB PHASE 3
SIGNING AND STRIPING

SS-4



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
JOB NO.:	23-00242

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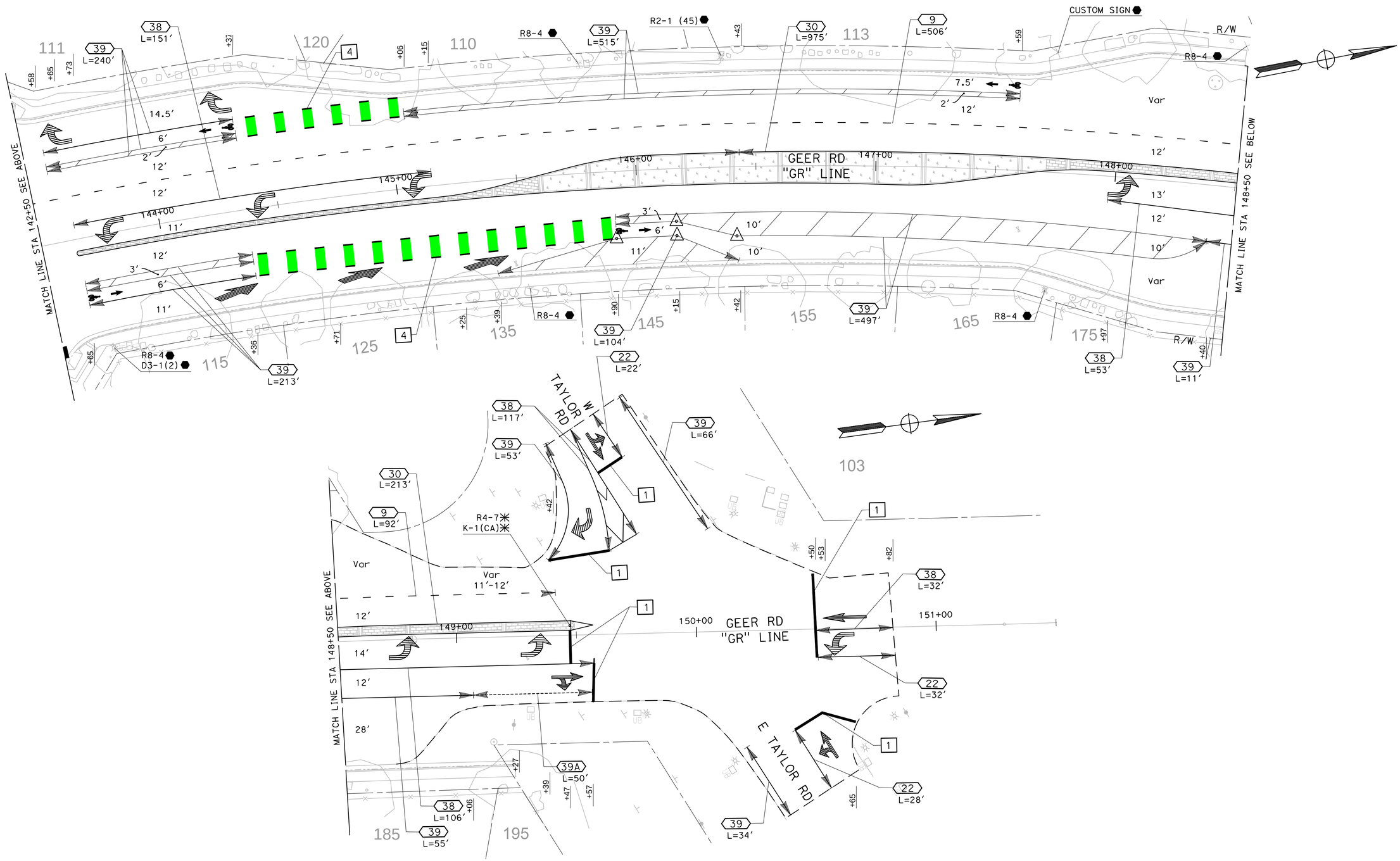
GEER RD PAVEMENT REHAB PHASE 3
SIGNING AND STRIPING

SS-5



DESIGNED BY:	M. CHOWDHURY
DRAWN BY:	M. CHOWDHURY
CHECKED BY:	J. HERNANDEZ
SCALE:	1"=20'
DATE:	6/08/2026
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REGISTERED PROFESSIONAL ENGINEER
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GEER RD PAVEMENT REHAB PHASE 3
SIGNING AND STRIPING

Sheet 224 of 256 Sheets

SS-6

IRRIGATION NOTES

1. THE IRRIGATION SYSTEM IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT TO THE LANDSCAPE ARCHITECT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES, 12" AWAY FROM EDGE OF MEDIAN FOR EASY ACCESS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THEY SHALL COORDINATE THEIR WORK FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE AGENCIES AND U.S.A. TO FIELD LOCATE ALL EXISTING UTILITIES.
4. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL LINES AND VALVES FOR OPTIMUM PERFORMANCE.
5. FIELD ADJUSTMENTS MAY BE REQUIRED TO PROVIDE OPTIMUM OPERATING EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW PROPOSED FIELD ADJUSTMENTS PRIOR TO INSTALLATION. IN THE EVENT THAT NO WRITTEN REQUEST IS RECEIVED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS.
6. SLEEVE ALL PRESSURE MAINLINE PIPE, LATERAL PIPE, AND CONTROL WIRES UNDER STREETS AND CONCRETE WALKWAYS WITH THE PROPER SIZE SCH 80 PVC AND DEPTH AS SPECIFIED.
7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DIAGRAMMATICALLY SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE ENGINEERING. THE CITY ENGINEER SHOULD BE INFORMED IN WRITING OF SUCH OBSTRUCTIONS AND DIFFERENCES, BUT IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
8. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE CONSTRUCTION DETAILS. USE "TEFLON" TAPE ON ALL PVC MALE THREADS OF ALL SPRINKLER SWING JOINTS AND VALVE ASSEMBLIES EXCEPT MARLEX STYLED FITTINGS.
9. CONTRACTOR SHALL VERIFY OPERABILITY OF ALL EXISTING IRRIGATION SYSTEM SHOWN TO REMAIN.

10 FOR ADDITIONAL INFORMATION, SEE PROJECT DETAILS AND SPECIFICATIONS.

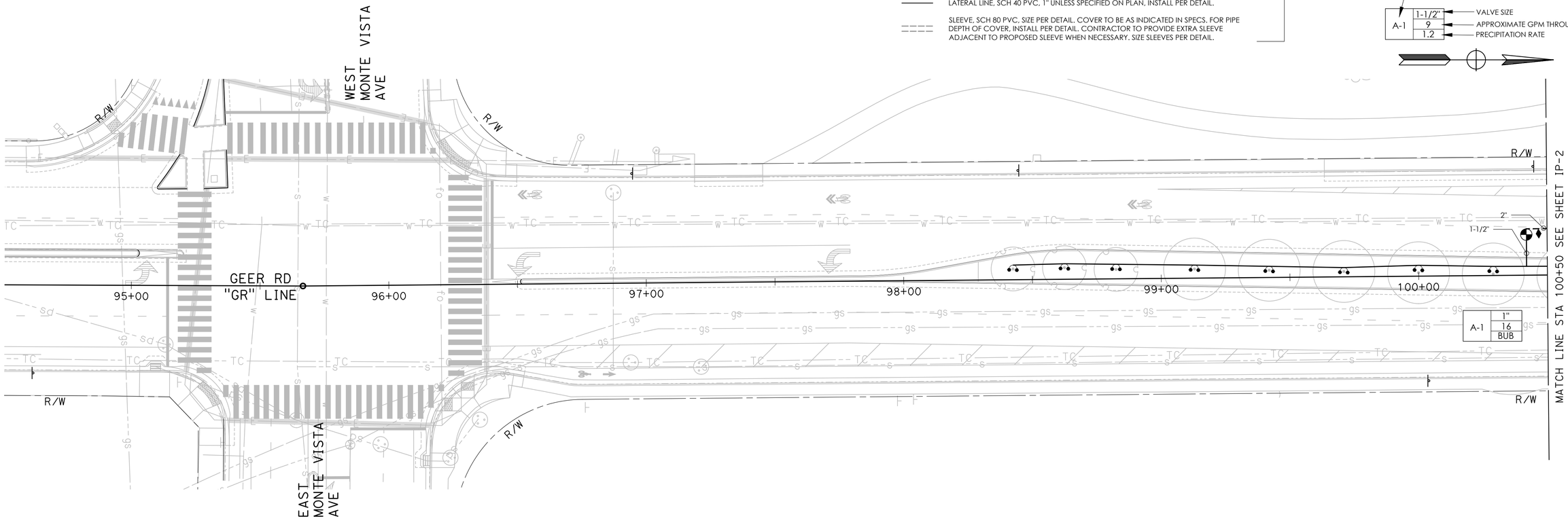
11. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEM'S WATERING WILL BE ALLOWED DURING CONSTRUCTION. ALL ADJACENT SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION. IF DISTRIBUTION OF AUTOMATIC IRRIGATION IS INEVITABLE, CONTRACTOR SHALL PROVIDE AND MAINTAIN SUPPLEMENTAL IRRIGATION FOR EXISTING TREES TO REMAIN THROUGHOUT CONSTRUCTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING & ADJUSTING ANY PORTIONS OF THE EXISTING ADJACENT IRRIGATION SYSTEMS DAMAGED DURING CONSTRUCTION OF THE IMPROVEMENTS IN THIS CONTRACT.

IRRIGATION LEGEND

A C D	IRRIGATION CONTROLLER, RAIN MASTER DXI SERIES SATELLITE ASSEMBLY SA6-RM6-8-RXHG-PMR IN A TOP ENTRY STAINLESS STEEL SB-16SS ENCLOSURE BY STRONG BOX. INSTALL PER DETAIL. (1 / ID-1)
B	EXISTING IRRIGATION CONTROLLER.
M	WATER METER, AMCO C700, 1" SIZE. SEE PLANS FOR LOCATION. INSTALL PER DETAIL. (2 / ID-1)
M	EXISTING WATER METER, 1" SIZE.
	REDUCED PRESSURED BACKFLOW ASSEMBLY, FEBCO825Y, 1" SIZE. ENCLOSURE PER CITY STANDARD DETAIL. SEE PLANS FOR LOCATION. CONTRACTOR TO TEST AND CERTIFY ALL BACKFLOW PREVENTION DEVICES. (3 / ID-1)
	EXISTING BACKFLOW PREVENTER ASSEMBLY, 2" SIZE.
V	MASTER VALVE ASSEMBLY, SUPERIOR 3200, 1" SIZE, NORMALLY CLOSED, FLOW RANGE 0-40 GPM. INSTALL PER DETAIL. (4 / ID-1)
F	FLOW SENSOR ASSEMBLY, CREATIVE SENSOR TECHNOLOGY FSI-T10-SP3, 1" SIZE, WITH OPERATING RANGE OF 0.86-52 GPM. (4 / ID-1)
	BALL VALVE ASSEMBLY, KITZ #58-100, 1" SIZE. INSTALL PER DETAIL. (1 / ID-2) (4 / ID-2)
	REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD PESB, 1" SIZE, OPERATING RANGE OF 0.1-50 GPM. INSTALL WITH PRS-D ADJUSTABLE PRESSURE REGULATOR MODULE. BALL VALVE, KITZ #58-100, 1" SIZE. INSTALL PER DETAIL. (6 / ID-1) (4 / ID-2)
	QUICK COUPLING VALVE ASSEMBLY, RAINBIRD 33LRC WITH YELLOW LOCKING RUBBER COVER, 3/4" SIZE. INSTALL PER DETAIL. (5 / ID-1) (4 / ID-2)
	DEEP WATER BUBBLER ASSEMBLY, RAINBIRD RWS-B-1402, 0.5 GPM, OPERATING PRESSURE OF 20 PSI, TWO PER TREE. INSTALL WITH FILTER FABRIC SLEEVE, RZWS-SLEEVE, INSTALL PER DETAIL. (5 / ID-2)
S	SPLICE BOX. (6 / ID-2)
W	EXISTING WATER MAINLINE.
	EXISTING IRRIGATION SUPPLY LINE CONNECTION.
	IRRIGATION SUPPLY LINE CONNECTION, CLASS 160 PVC, 1" DIA, BETWEEN WATER SERVICE AND REDUCED PRESSURE BACKFLOW ASSEMBLY.
	IRRIGATION MAINLINE, SCH 80 PVC, 2" OR 1-1/2" PER PLAN, INSTALL PER DETAIL. (2 / ID-1) (2 / ID-2) (3 / ID-2)
	EXISTING IRRIGATION MAINLINE.
	LATERAL LINE, SCH 40 PVC, 1" UNLESS SPECIFIED ON PLAN, INSTALL PER DETAIL.
	SLEEVE, SCH 80 PVC, SIZE PER DETAIL. COVER TO BE AS INDICATED IN SPECS. FOR PIPE DEPTH OF COVER, INSTALL PER DETAIL. CONTRACTOR TO PROVIDE EXTRA SLEEVE ADJACENT TO PROPOSED SLEEVE WHEN NECESSARY. SIZE SLEEVES PER DETAIL.

CONTROLLER VALVE NUMBER
VALVE SIZE
APPROXIMATE GPM THROUGH VALVE
PRECIPITATION RATE

A-1	1-1/2"	
	9	
	1.2	



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

NOTE:
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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
JINGWEN GUO LI 6364
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
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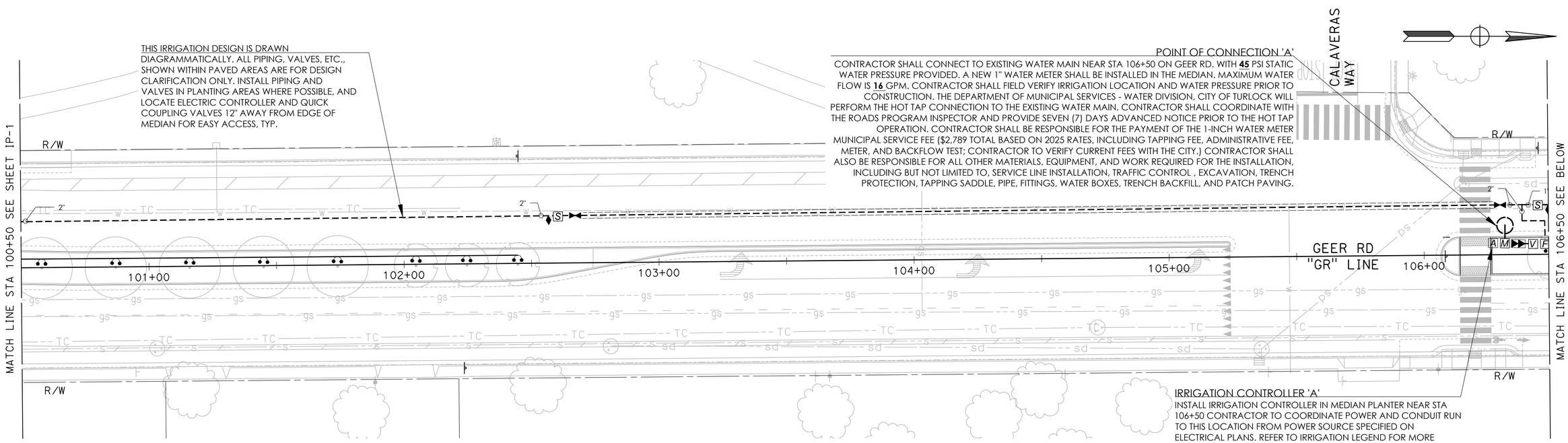
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
IRRIGATION PLANS

Sheet 225 of 256 Sheets

IP-1



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
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SCALE
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LICENSED LANDSCAPE ARCHITECT — LORENA GUO LI CHESSER — Signature — 09-30-2027 Renewal Date — Date — STATE OF CALIFORNIA

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CITY OF TURLOCK
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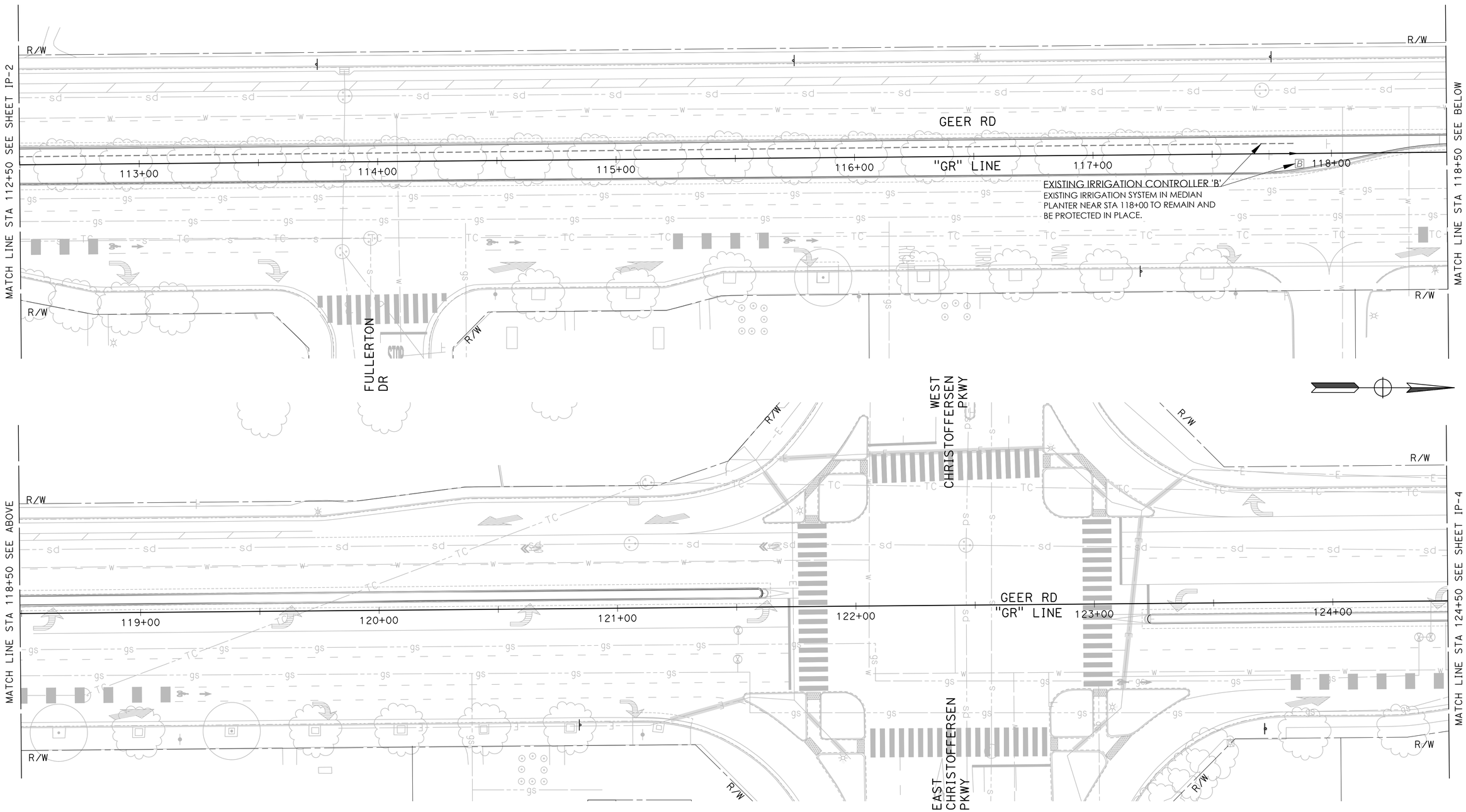
IRRIGATION PLANS



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
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LICENSED LANDSCAPE ARCHITECT
JINGWEN GUO LI #6467
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

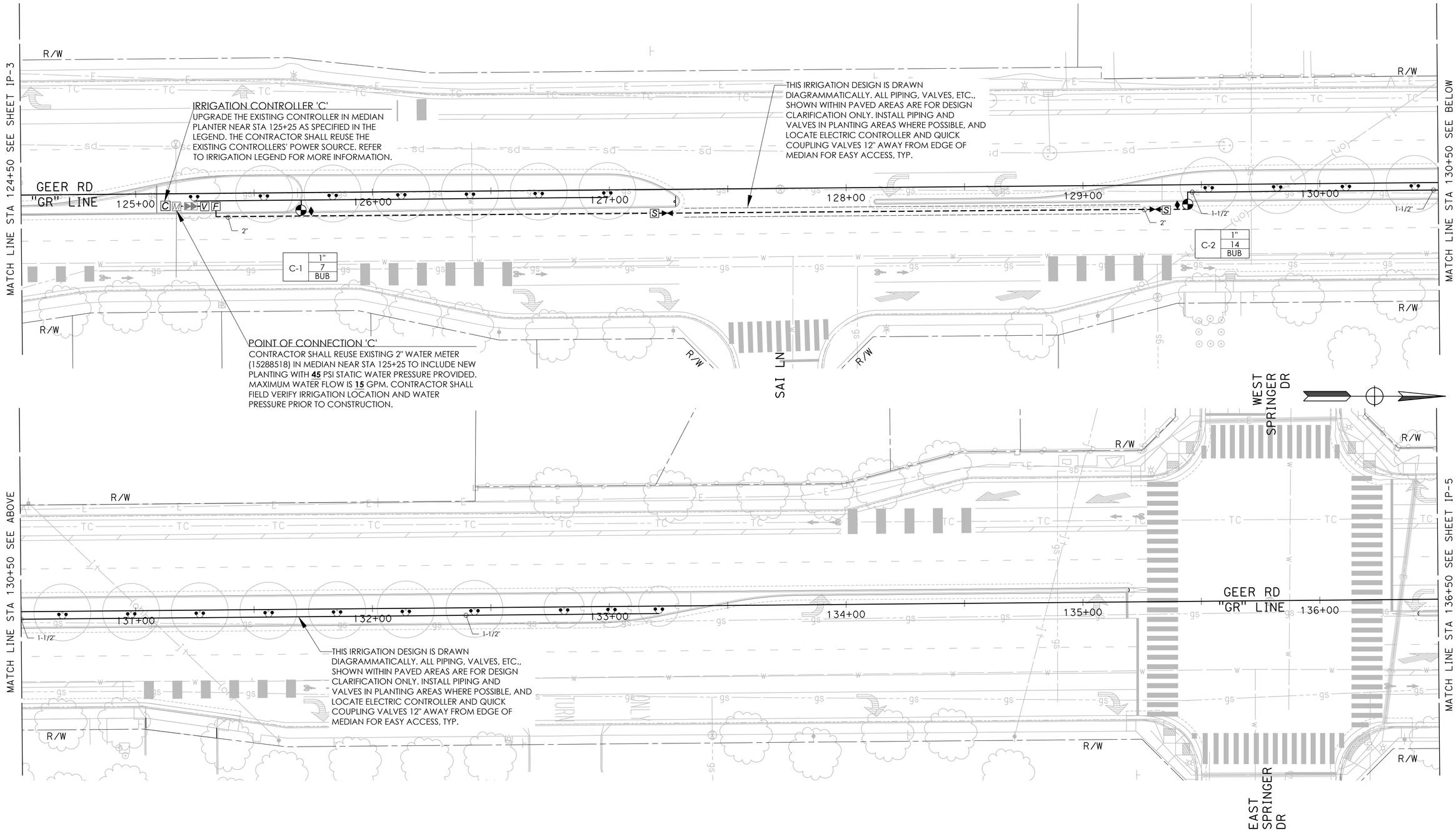
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
IRRIGATION PLANS

Sheet 227 of 256 Sheets

IP-3



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
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LICENSED LANDSCAPE ARCHITECT JAMES GUO LEE Signature 08-30-2027 Renewal Date Date STATE OF CALIFORNIA

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7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

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MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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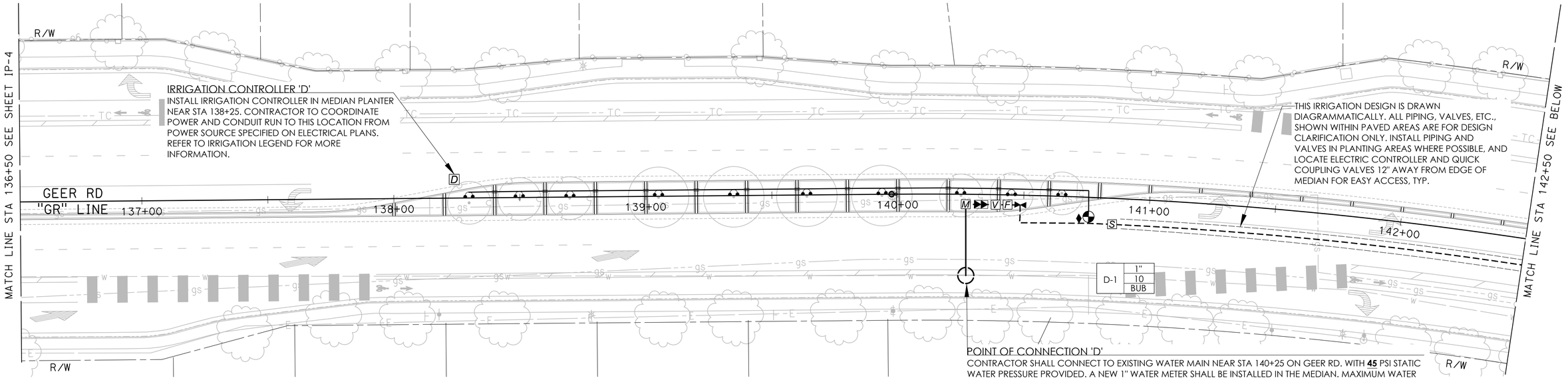
(209) 668-5520

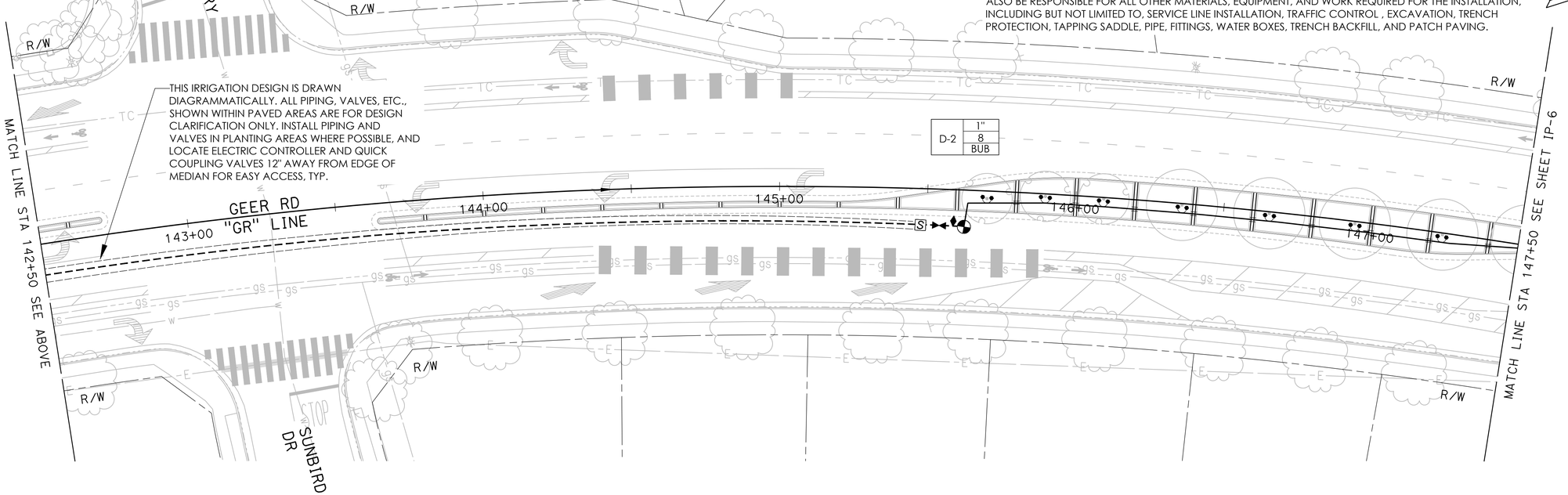
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
IRRIGATION PLANS



POINT OF CONNECTION 'D'

CONTRACTOR SHALL CONNECT TO EXISTING WATER MAIN NEAR STA 140+25 ON GEER RD. WITH **45** PSI STATIC WATER PRESSURE PROVIDED. A NEW 1" WATER METER SHALL BE INSTALLED IN THE MEDIAN. MAXIMUM WATER FLOW IS **16** GPM. CONTRACTOR SHALL FIELD VERIFY IRRIGATION LOCATION AND WATER PRESSURE PRIOR TO CONSTRUCTION. THE DEPARTMENT OF MUNICIPAL SERVICES - WATER DIVISION, CITY OF TURLOCK WILL PERFORM THE HOT TAP CONNECTION TO THE EXISTING WATER MAIN. CONTRACTOR SHALL COORDINATE WITH THE ROADS PROGRAM INSPECTOR AND PROVIDE SEVEN (7) DAYS ADVANCED NOTICE PRIOR TO THE HOT TAP OPERATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF THE 1-INCH WATER METER MUNICIPAL SERVICE FEE ($2,789 TOTAL BASED ON 2025 RATES, INCLUDING TAPPING FEE, ADMINISTRATIVE FEE, METER, AND BACKFLOW TEST; CONTRACTOR TO VERIFY CURRENT FEES WITH THE CITY.) CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL OTHER MATERIALS, EQUIPMENT, AND WORK REQUIRED FOR THE INSTALLATION, INCLUDING BUT NOT LIMITED TO, SERVICE LINE INSTALLATION, TRAFFIC CONTROL , EXCAVATION, TRENCH PROTECTION, TAPPING SADDLE, PIPE, FITTINGS, WATER BOXES, TRENCH BACKFILL, AND PATCH PAVING.



DESIGNED BY:	ZB/JG
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LICENSED LANDSCAPE ARCHITECT
JOHN GUO LICENSE
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
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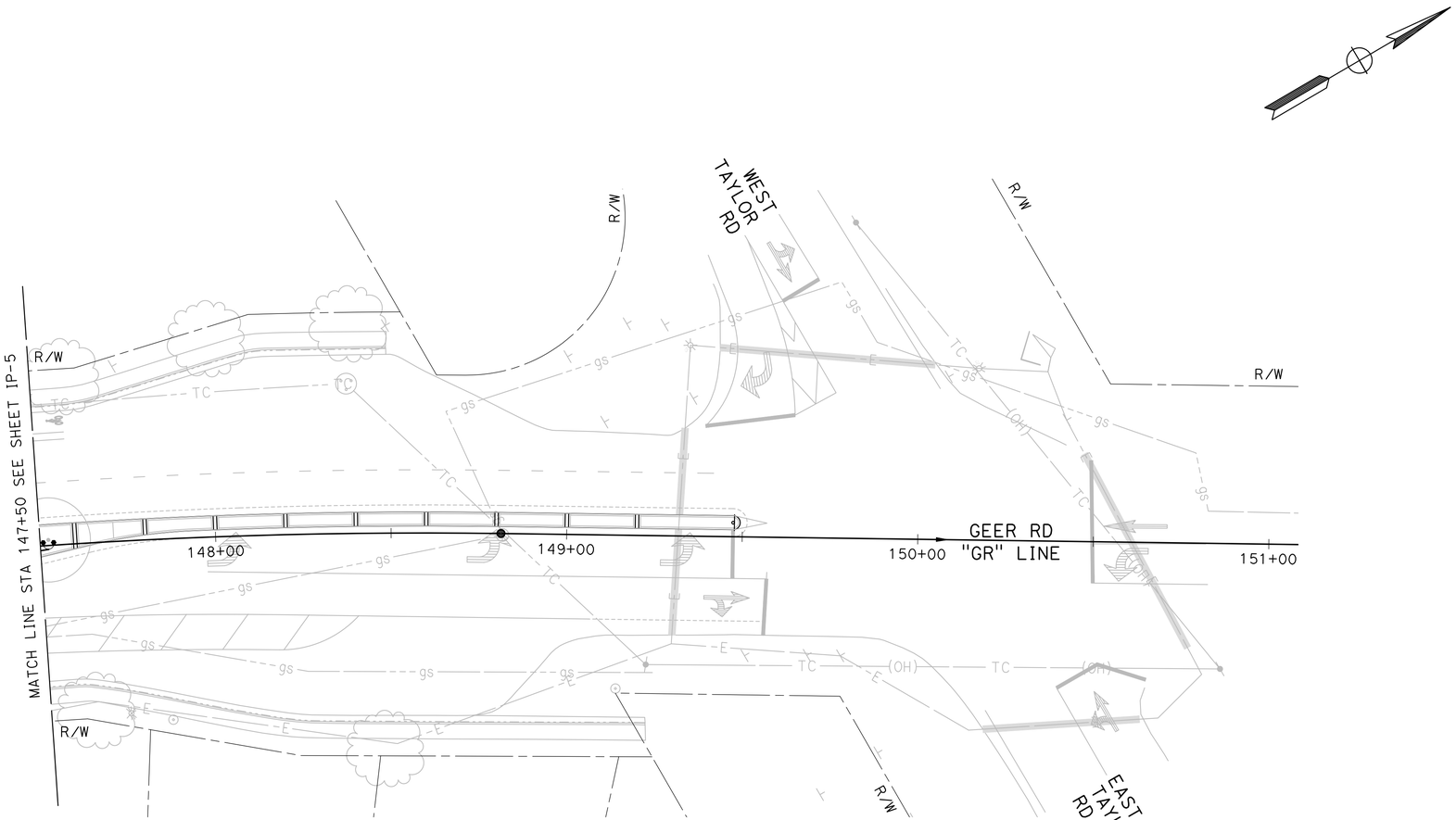
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
IRRIGATION PLANS

Sheet **229** of **256** Sheets

IP - 5



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LICENSED LANDSCAPE ARCHITECT
JOSEPHINA GUO LITTLEJOHN
Signature
09-30-2027
Renewal Date
Date
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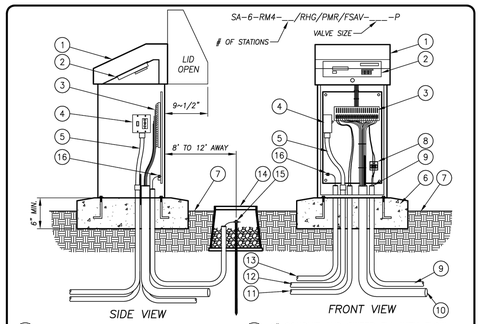


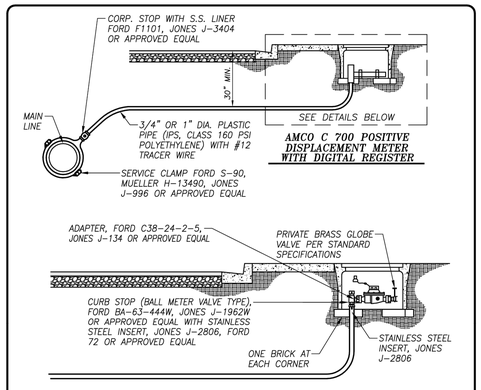
1. STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE (UL LISTED).
2. SATELLITE ASSEMBLY. ASSEMBLED IN ENCLOSURE BY SITEONE GREENTECH.
3. TERMINAL STRIP FOR VALVE WIRES.
4. POWER SWITCH/GFCI RECEPTACLE.
5. ELECTRICAL FLEX CONDUIT FOR POWER.
6. 6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS.
7. FINISHED GRADE.
8. FLOW SENSOR TERMINAL BOARD.
9. 1" CONDUIT AND SWEEP ELL WITH FLOW SENSOR CABLE.
10. 3" CONDUIT AND SWEEP ELL FOR LEAD WIRES.
11. 1" CONDUIT AND SWEEP ELL FOR MASTER VALVE WIRES.
12. 1" CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.
13. 1" CONDUIT AND SWEEP ELL FOR GROUND WIRE.
14. 10" ROUND VALVE BOX AROUND GROUND ROD. FILL WITH 3/4" CRUSHED ROCK.
15. 5/8"x8' GROUND ROD WITH #6 GROUND WIRE AND CLAMP. LOCATE 8'-12' FROM ENCLOSURE.
16. #6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.

NOTE: SEE IRRIGATION LEGEND CALL OUT FOR INCLUDED SATELLITE COMMUNICATION COMPONENTS. SUGGESTED CONDUIT SIZES MAY NEED TO BE LARGER.

CONTROLLER ASSEMBLY INSTALLATION

DRAWN BY: JSH	CITY OF TURLOCK		DRAWING NO. L-3
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

1 ID-1 IRRIGATION CONTROLLER
CITY OF TURLOCK STANDARD N.T.S.



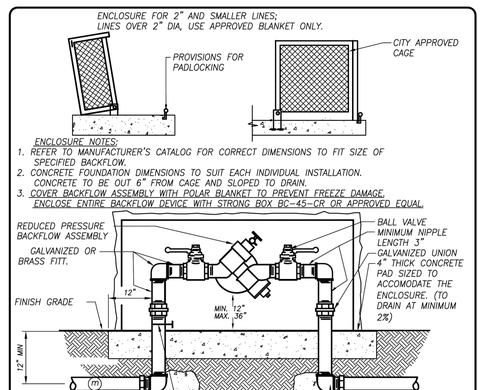
NOTES:

1. ALL BOX COVERS SHALL BE SET TO GRADE AND SHALL NOT BE SITUATED IN DRIVEWAYS.
2. METER STOP SHALL VARY BETWEEN 6" AND 10" FROM BOTTOM OF LID.
3. POLYETHYLENE PLASTIC OR PLOYMER CONCRETE VALVE BOX AND LID SHALL BE USED.
4. A "W", 3" HIGH, SHALL BE STAMPED OR CHISELED ON THE CURB FACE OVER SERVICE LINES.
5. PLACE A #12 TRACER WIRE IN THE SERVICE TRENCH TO MAKE CONDUCTIVE CONTACT WITH THE CORPORATION AND CURB (METER) STOP.

3/4" OR 1" PLASTIC WATER SERVICE CONNECTION

DRAWN BY: JSH	CITY OF TURLOCK		DRAWING NO. W-9
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

2 ID-1 WATER METER
CITY OF TURLOCK STANDARD N.T.S.



BACKFLOW NOTES:

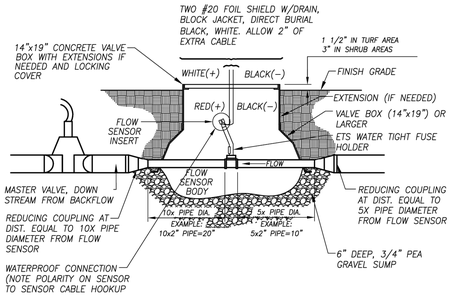
1. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING. COVER BACKFLOW ASSEMBLY WITH POLAR BLANKET TO PREVENT FREEZE DAMAGE.
2. ENCLOSE ENTIRE BACKFLOW DEVICE WITH STRONG BOX BC-45-CR OR APPROVED EQUAL.
3. WHEN UNIT IS NEXT TO A STRUCTURE (I.E. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON STRUCTURE SIDE.

3/4"-2" BACKFLOW PREVENTER ASSEMBLY DETAIL

DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L-16
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

3 ID-1 REDUCED PRESSURE BACKFLOW ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.

LOSCO REDUCING COUPLINGS ARE AVAILABLE IN THE FOLLOWING SIZES AND PART NUMBERS:
429-585 8"x6"
429-532 5"x4"
429-422 4"x3"
429-338 3"x2"
429-251 2"x1 1/2"
429-212 1 1/2"x1 1/4"
429-168 1 1/4"x1"



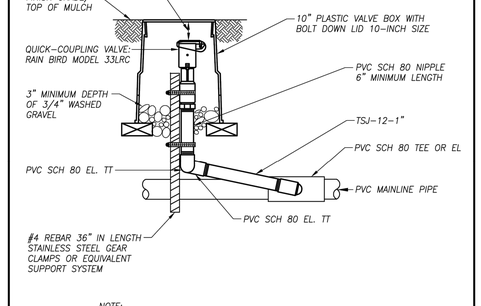
NOTES:

1. FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.
2. FLOW SENSOR CABLE MUST BE RUN IN 1" CONDUIT FROM FLOW SENSOR TO CONTROLLER ENCLOSURE.

MASTER VALVE/FLOW SENSOR

DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L-9
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

4 ID-1 MASTER VALVE AND FLOW SENSOR ASSEMBLIES
CITY OF TURLOCK STANDARD N.T.S.



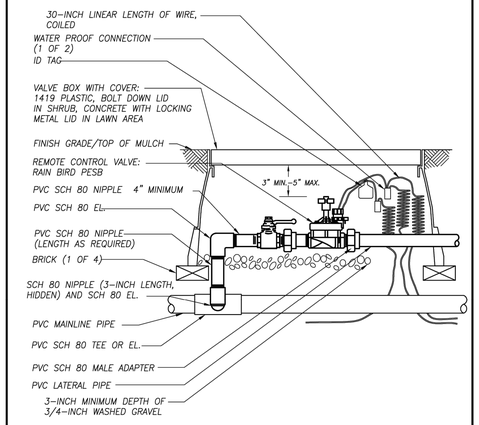
NOTE:

1. FURNISH FITTINGS AND PIPING SIZED THE SAME SIZE AS THE INLET SIZE OF THE QUICK COUPLING VALVE.

STANDARD QUICK-COUPLING VALVE

DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L-7
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

5 ID-1 QUICK COUPLING VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.



NOTE: USE 1419 CONCRETE VALVE BOX WITH BOLT DOWN LIDS IF INSTALLED IN SIDEWALK AREA. SET FLUSH TO GRADE.

HARD GLUE ALL FITTINGS FROM POINT OF CONTACT TO BRASS BALL VALVE.

REMOTE CONTROL VALVE

DRAWN BY: VL	CITY OF TURLOCK		DRAWING NO. L-6
CHECK BY: NBB	APPROVED BY:		COUNCIL APPROVAL DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

6 ID-1 REMOTE CONTROL VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.

DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
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SCALE

LICENSED LANDSCAPE ARCHITECT — HOWARD GUO LI-HSIEH — Signature — 09-30-2027 Renewal Date — Date — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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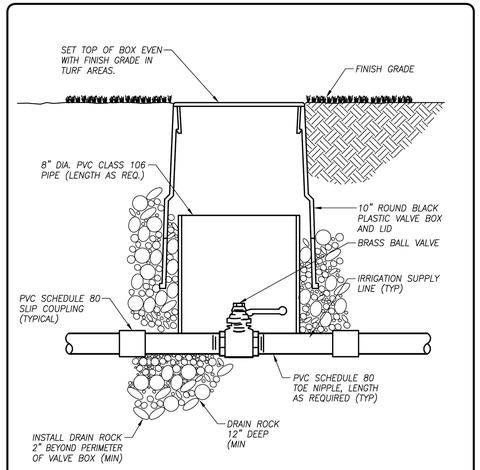
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
IRRIGATION DETAILS

Sheet 231 of 256 Sheets

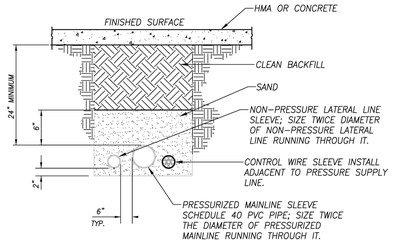
ID-1



STANDARD BALL VALVE INSTALLATION

DRAWN BY: VL	CITY OF TURLOCK	DRAWING NO.	L-5
CHECK BY: NBB	APPROVED BY:	COUNCIL APPROVAL	DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

1 ID-2 BALL VALVE ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.



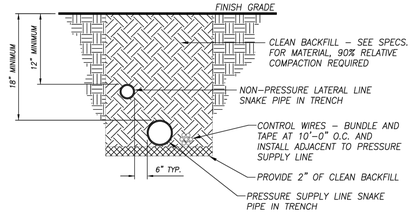
NOTES:

1. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS
2. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER JET COMPACTION.
3. SCHEDULE 40 PVC PIPE MUST BE USED AS SLEEVE UNDER ALL PAVING, WITH A 4" SCREENED SAND COVER.
4. ALL IRRIGATION WIRE MUST HAVE A SEPARATE SLEEVE MEETING THE SAME STATED INSTALLATION CONDITIONS.

SLEEVING DETAIL

DRAWN BY: VL	CITY OF TURLOCK	DRAWING NO.	L-11
CHECK BY: NBB	APPROVED BY:	COUNCIL APPROVAL	DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

2 ID-2 SLEEVING
CITY OF TURLOCK STANDARD N.T.S.



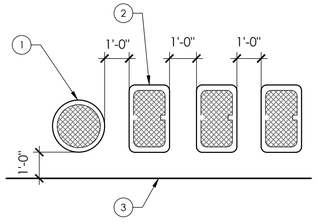
NOTES:

1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION.
2. INSTALL MAIN LINE ACCORDING TO MANUFACTURER'S SPECIFICATIONS. COMPACT SOIL BACKFILL TO 90% THROUGH WATER JETTING. 4" OF SCREENED SAND REQUIRED AROUND MAIN LINE PRIOR TO WATER COMPACTION.

TRENCHING DETAIL

DRAWN BY: VL	CITY OF TURLOCK	DRAWING NO.	L-12
CHECK BY: NBB	APPROVED BY:	COUNCIL APPROVAL	DEC, 2015
SCALE: NONE	CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694		

3 ID-2 TRENCHING
CITY OF TURLOCK STANDARD N.T.S.



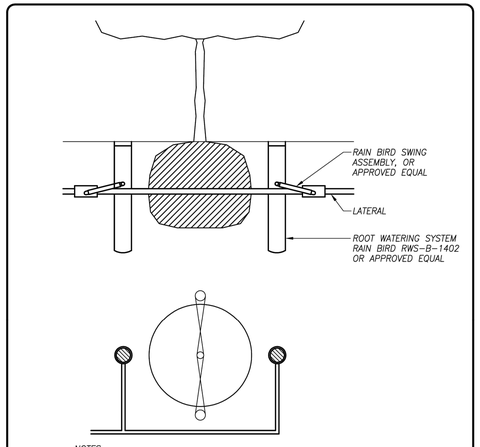
KEY:

1. CIRCULAR VALVE BOX.
2. JUMBO RECTANGULAR VALVE BOX.
3. EDGE OF PLANTER.

NOTES:

1. CENTER VALVE BOX OVER VALVE.
2. PLACE REMOTE CONTROL VALVE ASSEMBLY SHRUB/GROUNDCOVER AREA WHENEVER POSSIBLE.
3. SET VALVE BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF PLANTER. SET ALL GROUPINGS OF VALVE BOXES LEVEL WITH EACH OTHER OR AT THE SAME HEIGHT ABOVE GRADE.

4 ID-2 VALVE BOX LAYOUT
N.T.S.



NOTES:

1. INSTALL TWO ROOT WATERING SYSTEMS PER TREE
2. ROOT WATERING SYSTEM SHALL BE EVENLY SPACED ADJACENT TO THE ROOT ZONE AND WITHIN THE TREE CANOPY
3. FILL ROOT WATERING SYSTEM WITH PEA GRAVEL
4. PLACE SOIL SOCK ON OUTSIDE OF THE ROOT WATERING SYTEM

DEEP ROOT TREE BUBBLER

DRAWN BY: VL	CITY OF TURLOCK	DRAWING NO.	L-4
CHECK BY: NBB	APPROVED BY:	COUNCIL APPROVAL	DEC, 2015
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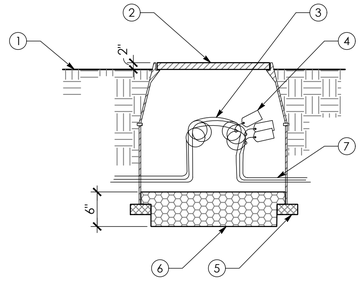
5 ID-2 DEEP WATER BUBBLER ASSEMBLY
CITY OF TURLOCK STANDARD N.T.S.



KEY:

1. FINISH GRADE.
2. PLASTIC VALVE BOX AND LOCKING COVER, W/ BOX EXTENSIONS AS REQUIRED. SEE SPECS.
3. SPLICE TOGETHER EXISTING IRRIGATION CONTROL WIRE TO NEW CONTROL WIRE.
4. IDENTIFICATION TAG.
5. BRICK, TYP. (4) PLACES.
6. 3/4" DIA. DRAIN ROCK (NOT TO EXCEED BOTTOM OF VALVE).
7. CONTROL WIRE TO RUN ADJACENT TO MAINLINE (5 ID-2)

6 ID-2 SPLICE BOX
N.T.S.

DESIGNED BY:	ZB/JG
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SCALE

LICENSED LANDSCAPE ARCHITECT — LOREN GUO LI PRESLEY — Signature — 08-30-2027 Renewal Date — Date — STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
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GEER RD PAVEMENT REHAB PHASE 3
IRRIGATION DETAILS

Sheet 232 of 256 Sheets

ID-2

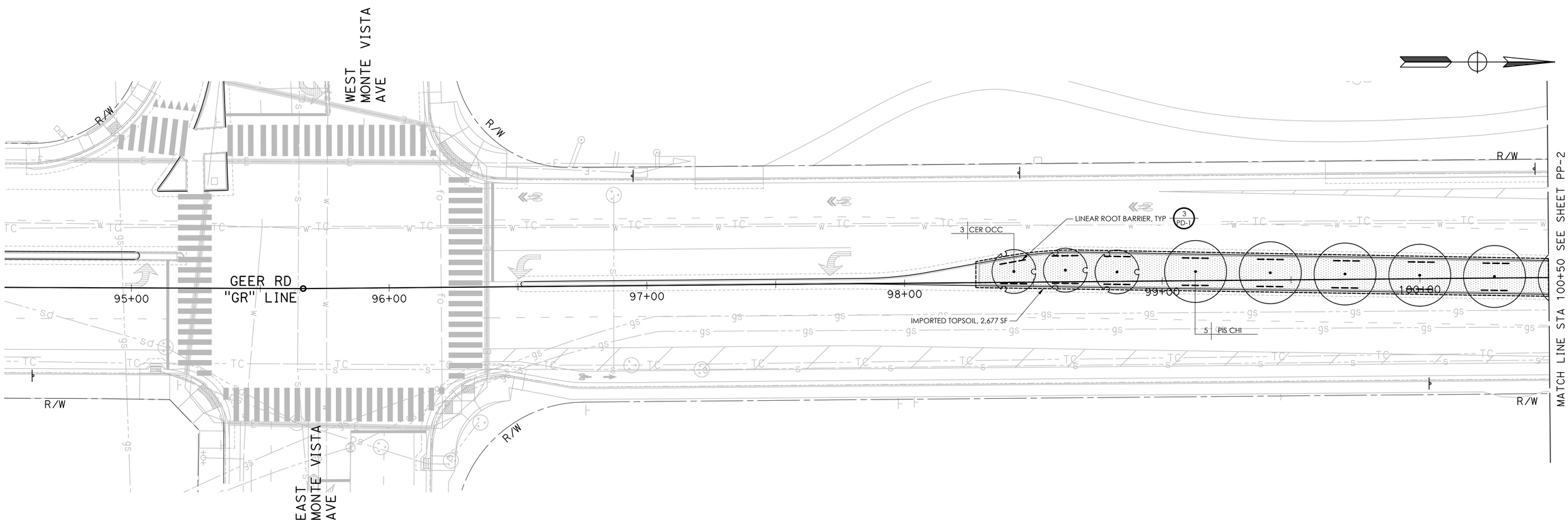
PLANTING LEGEND

LABEL	SCIENTIFIC NAME	COMMON NAME	WATER USAGE (WUCOLS)	SIZE	SPACING
TREES					
PIS CHI	*PISTACIA CHINENSIS 'KEITH DAVEY'*	KEITH DAVEY CHINESE PISTACHE	L	36" BOX	AS SHOWN
CER OCC	*CERCIS OCCIDENTALIS*	WESTERN REDBUD	VL	24" BOX	AS SHOWN
EXISTING TREES TO REMAIN					
OTHER					
DARK BROWN RUBBER BARK MULCH, 3" THICK MATERIAL TO MATCH THE LANDER AVENUE PROJECT. CONTACT THE CITY FOR PRODUCT INFORMATION.					
LINEAR ROOT BARRIER, INSTALL PER DETAIL 3/PD-1					
IMPORTED TOP SOIL LIMIT, 12" DEEP					
THVF — TEMPORARY HIGH-VISIBILITY FENCE					

1/PD-1 2/PD-1

PLANTING NOTES

1. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIALS AS INDICATED ON THE PLAN. AVOID OR MINIMIZE SOIL DISTURBANCE WITHIN OR NEAR EXISTING TREES TO REMAIN. INSTALL TEMPORARY HIGH-VISIBILITY FENCE DURING CONSTRUCTION. CONTRACTOR TO REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
2. TOP SOIL: CONTRACTOR SHALL REMOVE THE TOP 12" OF ALL EXISTING GRAVEL, ROADWAY, AND PAVEMENT, AND AGGREGATE BASE WITHIN NEW PLANTING AREAS IN THE MEDIAN AND REPLACE IT WITH IMPORTED TOPSOIL AND AMENDMENTS. AT TREE LOCATIONS, EXCAVATE TO THE DEPTH OF THE ROOT BALL (TYPICALLY 24" FOR 24" BOX TREES OR 36" FOR 36" BOX TREES) AND TO A WIDTH TWICE THE ROOT BALL DIAMETER. INSTALL TOPSOIL TO 3" BELOW THE FINISH GRADE OF SURROUNDING HARDSCAPE TO ACCOMMODATE A 3" MULCH LAYER. REFER TO CIVIL PLANS FOR PLANTED AREA GRADING AND SLOPES.
3. SOIL LAB TEST: CONTRACTOR SHALL COLLECT A MINIMUM OF 1 QUART OF EXISTING AND IMPORTED TOPSOIL FROM ANY AREAS PREVIOUSLY COVERED BY PAVING AND SUBMIT THE SAMPLE TO SUNLAND ANALYTICAL LABORATORY, (916) 852-8557, OR SIMILAR LAB, FOR AGRONOMIC ANALYSIS. TEST RESULTS SHALL INCLUDE ORGANIC MATTER CONTENT, SOIL TEXTURE, pH, SALINITY/EC, SODIUM ADSORPTION RATIO, AVAILABLE NUTRIENTS, AND AMENDMENT/FERTILIZER RECOMMENDATIONS. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
4. SOIL AMENDMENTS: SHALL BE INSTALLED IN ACCORDANCE WITH THE LABORATORY RECOMMENDATIONS. FOR BIDDING PURPOSES, ASSUME INCORPORATION OF COMPOST AT A MINIMUM RATE OF 4 CUBIC YARDS PER 1,000 SQUARE FEET UNIFORMLY INTO THE TOP 6 INCHES OF SOIL. UNLESS SOIL TESTING DEMONSTRATES THAT THE EXISTING ORGANIC MATTER CONTENT IN THE TOP 6 INCHES EXCEEDS 6 PERCENT. REMOVE ROCKS LARGER THAN 2 INCHES AND DEBRIS PRIOR TO INSTALLATION.
5. FERTILIZER: SHALL BE PROVIDED PER LABORATORY RECOMMENDATIONS. FOR BIDDING PURPOSES ONLY, FERTILIZER SHALL BE ASSUMED AS A SLOW-RELEASE GRANULAR PRODUCT (E.G., 16-16-16 OR SIMILAR) APPLIED AT APPROXIMATELY 5 POUNDS PER 1,000 SQUARE FEET, UNLESS MODIFIED BY LABORATORY RECOMMENDATIONS.
6. ROOT BARRIERS: CONTRACTOR SHALL INSTALL LINEAR ROOT BARRIER ANYWHERE TREES ARE LOCATED WITHIN 10-FEET OF PAVEMENT AS SHOWN ON PLANS. SEE DETAILS AND SPECIFICATIONS.
7. TREES: INSTALL PER PLANS AND DETAILS.
8. MAINTENANCE AND ESTABLISHMENT PERIOD: CONTRACTOR SHALL PROVIDE A **365-CALENDAR DAY** MAINTENANCE AND ESTABLISHMENT PERIOD, SEE SPECS.



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

LICENSED LANDSCAPE ARCHITECT — JINGWEN GUO — Signature — 09-30-2027 Renewal Date — Date — STATE OF CALIFORNIA

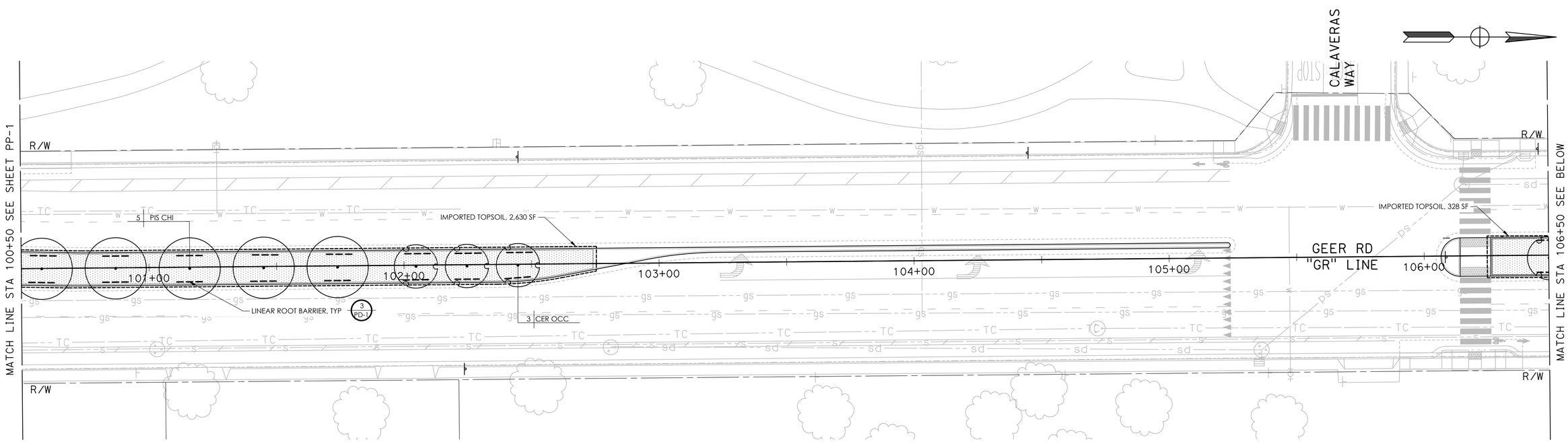
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

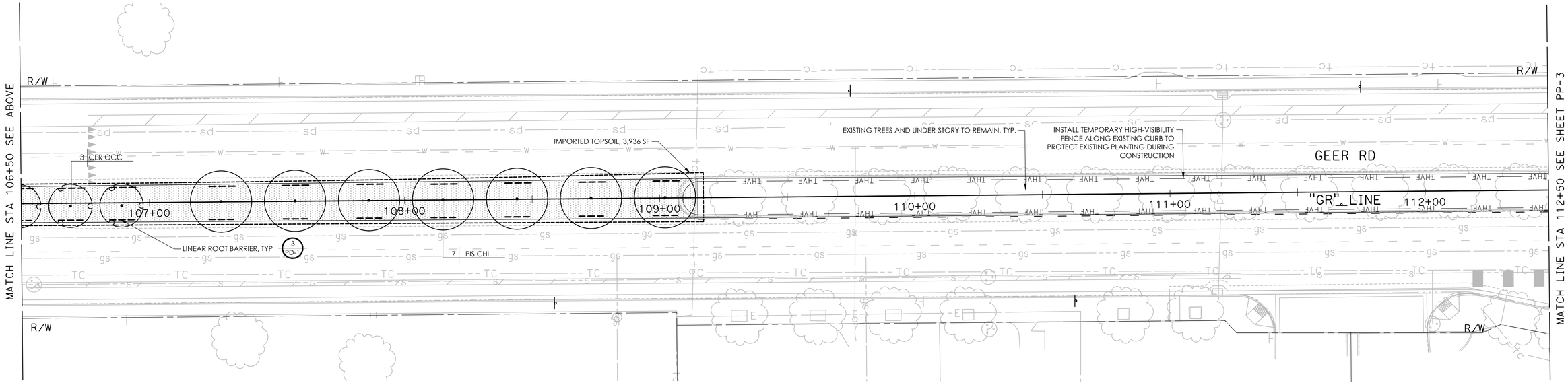
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

PP-1





DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
JOHN A. GUO
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

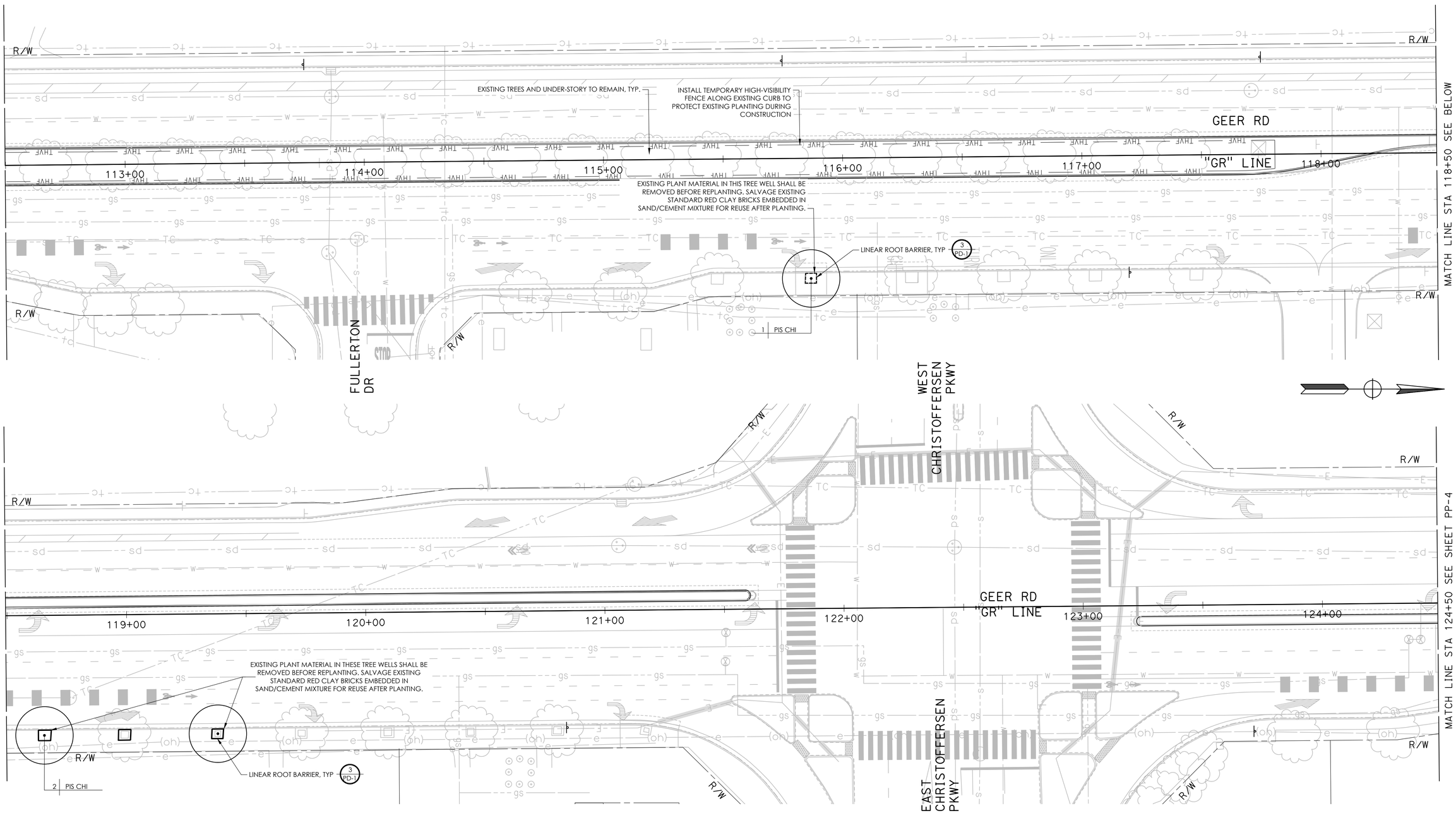
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

Sheet 234 of 256 Sheets

PP-2



DESIGNED BY: ZB/JG
DRAWN BY: ZB
CHECKED BY: JG
SCALE: 1"=20'
DATE: 5/4/2026
JOB NO.: 24-00242

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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
STEPHEN OUO LICENSE
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

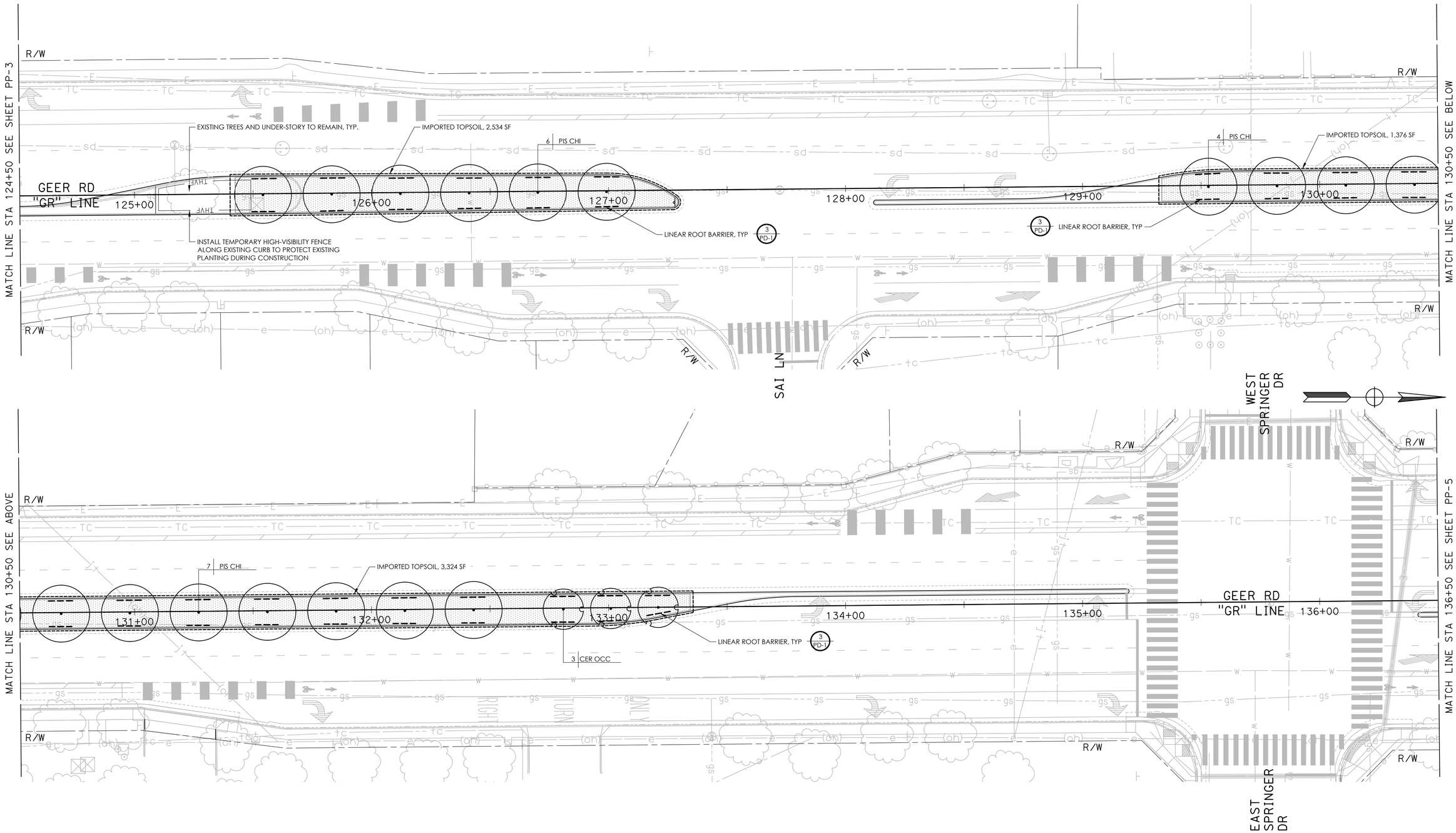
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

PP-3



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
JENNEN GOO
No. 6411
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

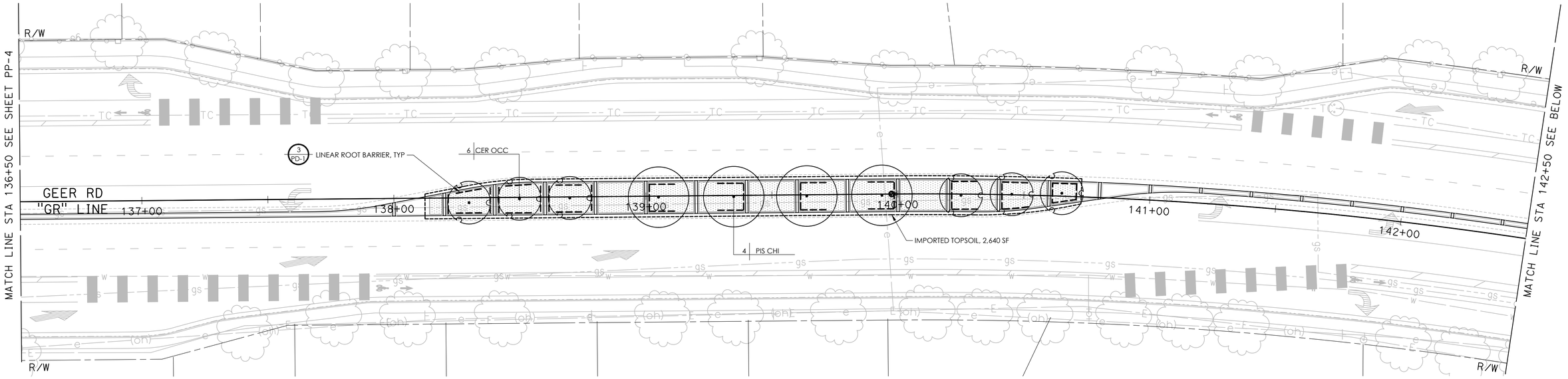
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

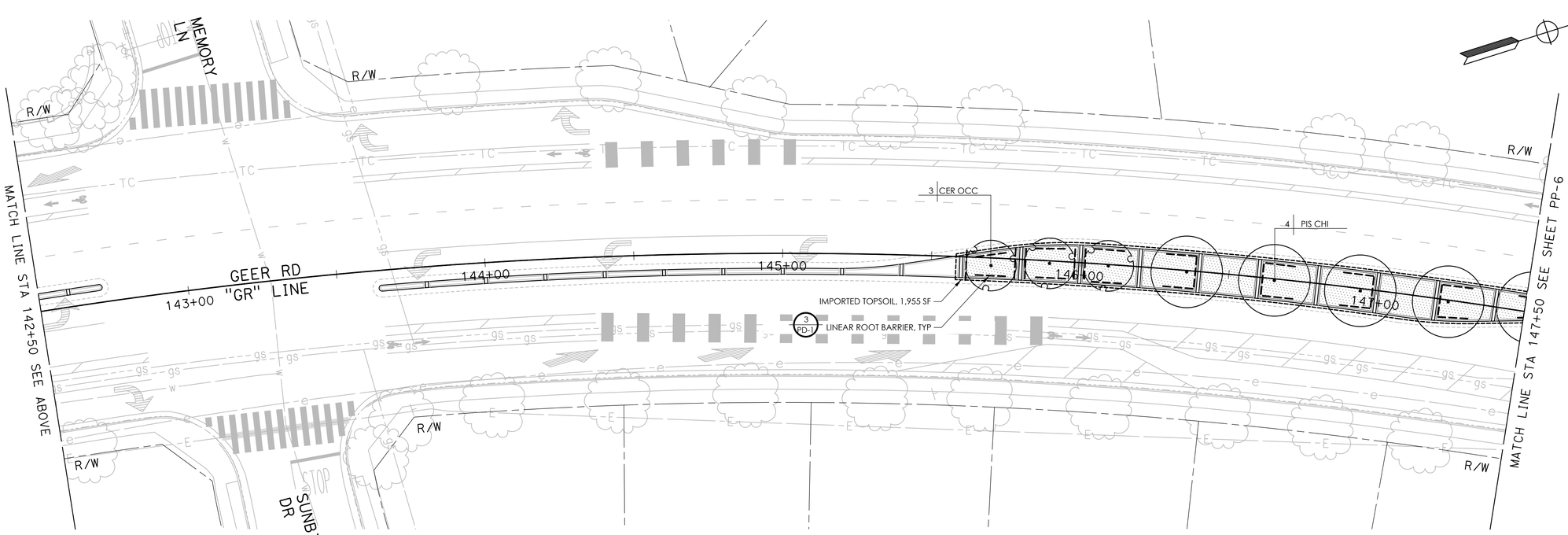
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

Sheet 236 of 256 Sheets

PP-4





DESIGNED BY: ZB/JG
DRAWN BY: ZB
CHECKED BY: JG
SCALE: 1"=20'
DATE: 5/4/2026
JOB NO.: 24-00242

NOTE:
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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT
JOSEPH GUIO LITTLEFIELD
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

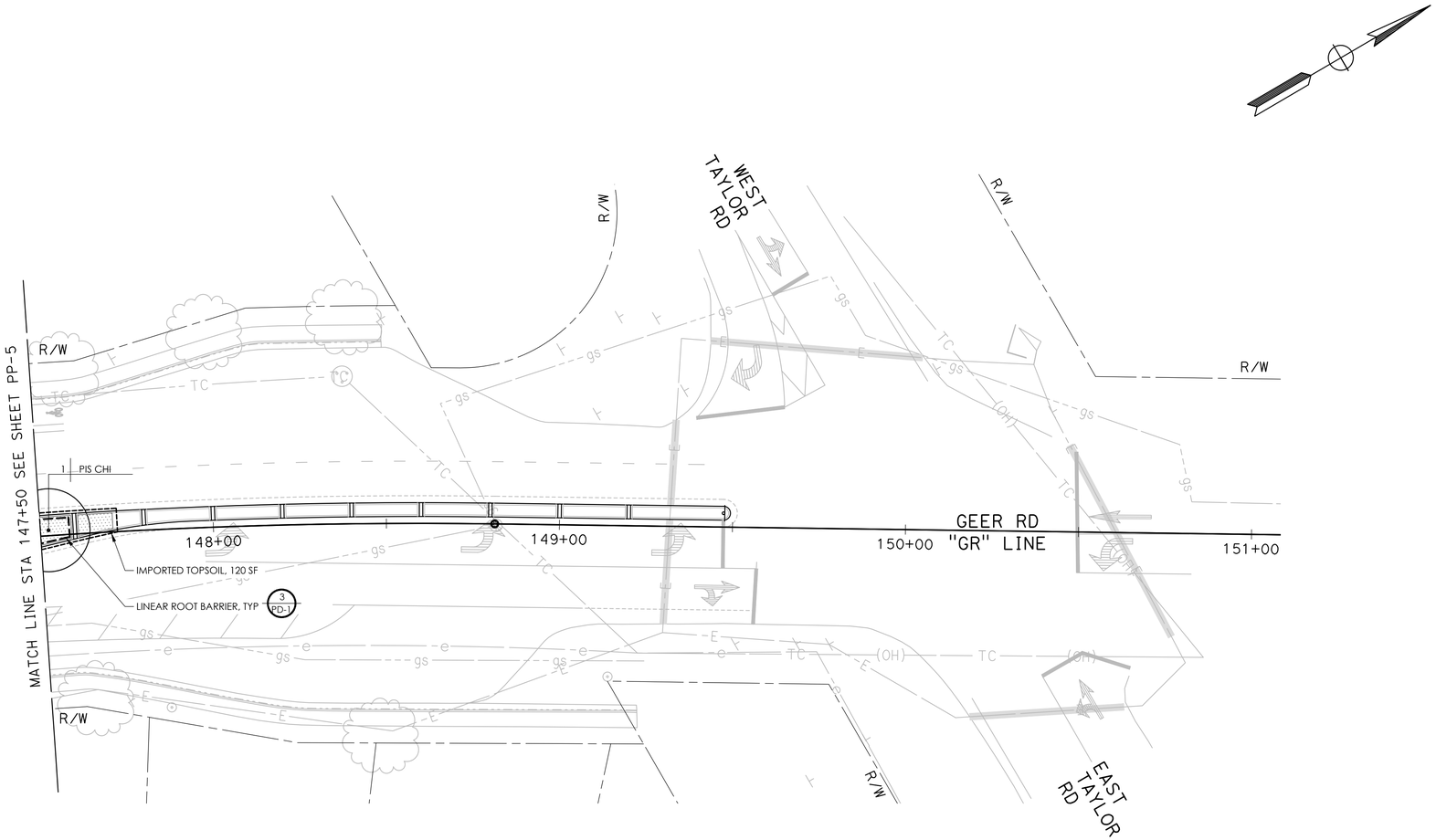
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

PP-5



DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

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SCALE
20 0 20 40

LICENSED LANDSCAPE ARCHITECT LOREN GUO LI PERRY
Signature
09-30-2027
Renewal Date
Date
STATE OF CALIFORNIA

MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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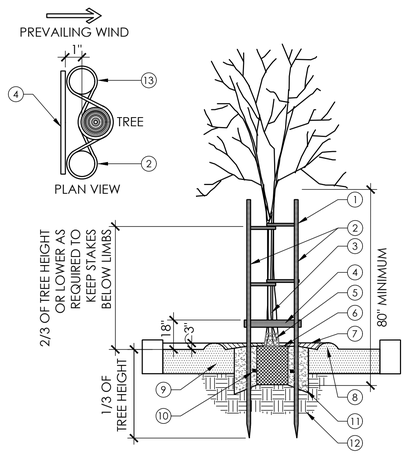
CITY OF TURLOCK INC. 1908

CITY OF TURLOCK
GEER RD PAVEMENT REHAB PHASE 3
PLANTING PLANS

Sheet 238 of 256 Sheets

PP-6



KEY:

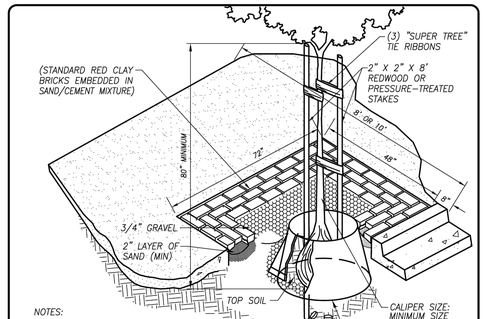
1. TREE TIES AT TWO LOCATIONS, REFER TO SPECIFICATIONS FOR TYPE. (THREE MINIMUM) TYP. PROVIDE 5" - 6" OF SLACK IN TIES TO ALLOW FOR TREE MOVEMENT IN THE WIND.
2. TWO 2" X 2" X 8' REDWOOD OR PRESSURE-TREATED LODGEPOLE TREE STAKES (SET PLUMB) DO NOT PENETRATE ROOTBALL.
3. TREE TRUNK, CALIPER SIZE MINIMUM 3/4" - 7/8" MEASURED 12" ABOVE PLANTING DEPTH.
4. 1" X 4" REDWOOD BRACE NAILED TO STAKES WITH GALVANIZED NAILS. 18" ABOVE FINISHED GRADE.
5. TREE GUARD
6. ROOT BALL, SET CROWN 2" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
7. BARK MULCH, REFER TO SPECIFICATIONS
8. WATER RETENTION BERM (EXCEPT IN TURF AREAS)
9. AMENDED IMPORTED TOPSOIL
10. (TWO) AGRIFORM FERTILIZER PELLETS, REFER TO SPECIFICATION TYPE.
11. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOT BALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
12. NATIVE SOIL
13. SECURE TREE TIE WITH GALV. FENCE STAPLE

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

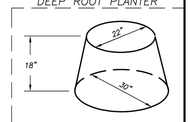
1 PD-1 TREE PLANTING IN MEDIAN

N.T.S.



NOTES:

1. TREE WELL SHALL HAVE STANDARD RED CLAY BRICKS EMBEDDED IN SAND/CEMENT MIXTURE
2. TREE SHALL BE DOUBLE-STAKED. STAKES SHALL BE PLACED INSIDE BOX.
3. TREE SHALL BE PLANTED INSIDE "DEEP ROOT PLANTER" AND BACKFILLED WITH SUITABLE MATERIAL
4. 3/4" GRAVEL SHALL BE USED TO FILL IN AROUND PERIMETER OF PLANTER, 6" TO 8" WIDE. THE GRAVEL SHALL EXTEND BENEATH THE 18" DEPTH OF THE DEEP ROOT PLANTER.
5. IRRIGATION PIPE TO BE STUBBED THROUGH BOX. RISER WILL BE FLEX W/BUBBLER HEAD.
6. ALL STREET TREES WITHIN 10' OF ANY CURB OR SIDEWALK SHALL HAVE A DEEP ROOT PLANTER OR PANELS INSTALLED.
7. DEEP ROOT PLANTER CAN BE SUBSTITUTED WITH A MIN. OF (4) 18" x 24" PLANTER PANELS AS PER MANUFACTURER'S SPECIFICATIONS.

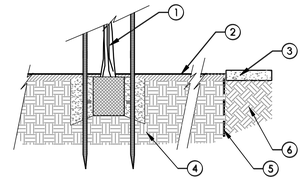


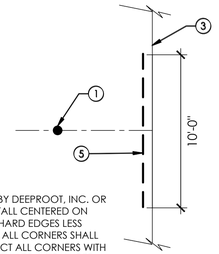
COMMERCIAL/RESIDENTIAL STREET TREE IN TREE WELL

	DRAWN BY: JSH	CITY OF TURLOCK	DRAWING NO. L-1
	CHECK BY: NBB	APPROVED BY: CITY ENGINEER – MICHAEL G. PITCOCK – RCE 52694	COUNCIL APPROVAL DEC, 2015
	SCALE: NONE		

2 PD-1 TREE PLANTING IN TREE WELL

N.T.S.





KEY:

1. TREE PLANTING.
2. BARK MULCH, REFER TO SPECIFICATIONS.
3. ADJACENT CURB OR PAVEMENT, SEE PLAN.
4. NATIVE OR IMPORT SOIL.
5. LINEAR ROOT BARRIER, BY DEEPROOT, INC. OR APPROVED EQUAL. INSTALL CENTERED ON TREE, PARALLEL TO ALL HARD EDGES LESS THAN 10'-0" FROM TREE. ALL CORNERS SHALL BE 90 DEGREES. CONNECT ALL CORNERS WITH MANUFACTURER'S COUPLINGS. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALIGN TOP OF ROOT BARRIER PANELS FLUSH WITH FINISHED GRADE IN PLANTER.
6. COMPACTED SUBGRADE, SEE PLANS AND SPECS.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

3 PD-1 LINEAR ROOT BARRIER

N.T.S.

DESIGNED BY:	ZB/JG
DRAWN BY:	ZB
CHECKED BY:	JG
SCALE:	1"=20'
DATE:	5/4/2026
JOB NO.:	24-00242

NOTE:
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SCALE

LICENSED LANDSCAPE ARCHITECT — NOREA GUO — 6/30/2027 Renewal Date — Signature — Date — STATE OF CALIFORNIA

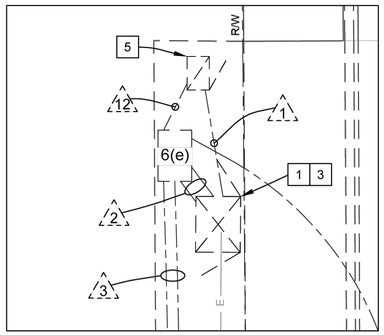
MARK THOMAS
7571 NORTH REMINGTON AVE, STE 102
FRESNO, CALIFORNIA 93711

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

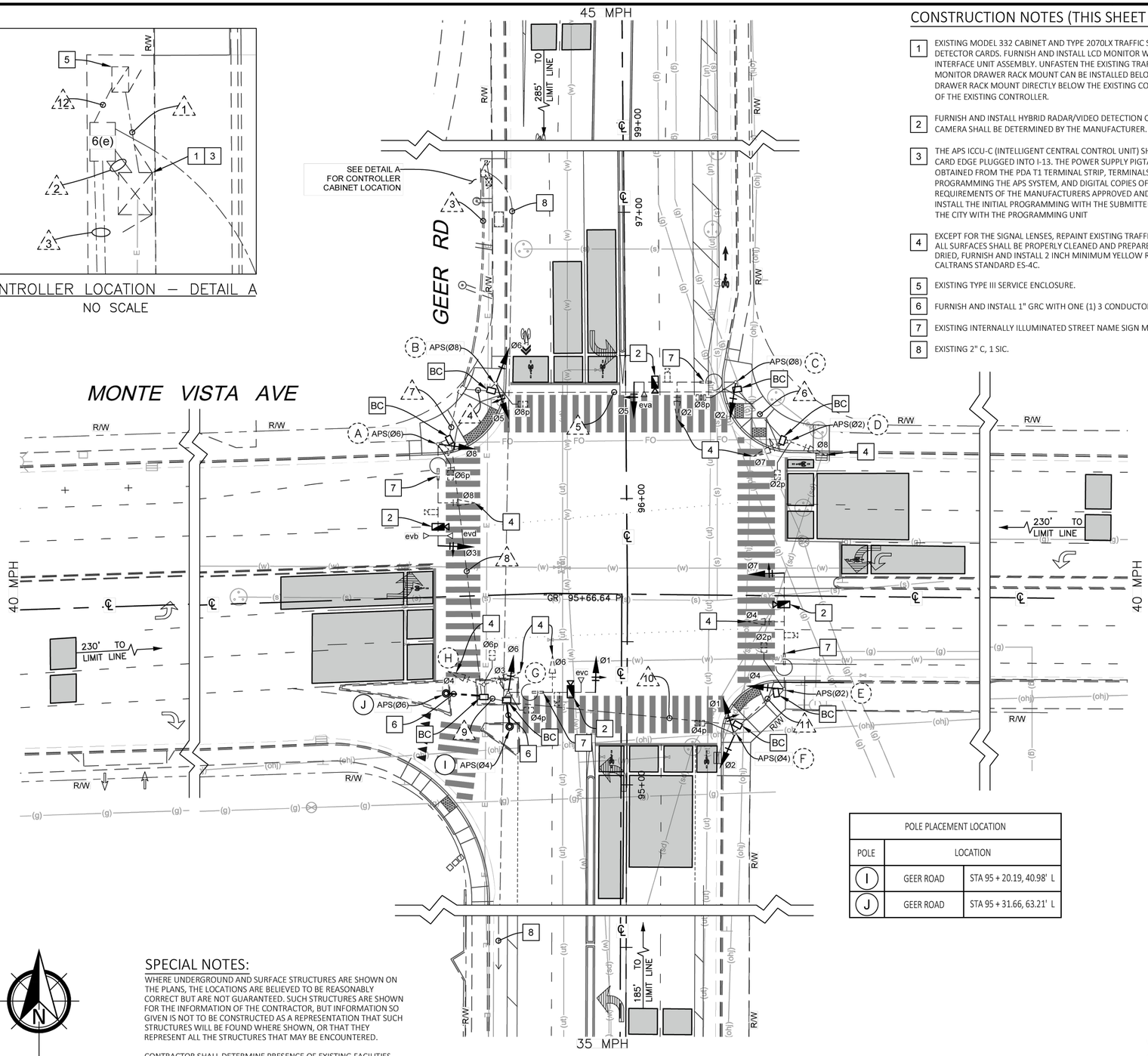
CITY OF TURLOCK
GEER RD PAVEMENT REHAB
PHASE 3
PLANTING DETAILS

Sheet 239 of 256 Sheets

PD-1



CONTROLLER LOCATION – DETAIL A
NO SCALE



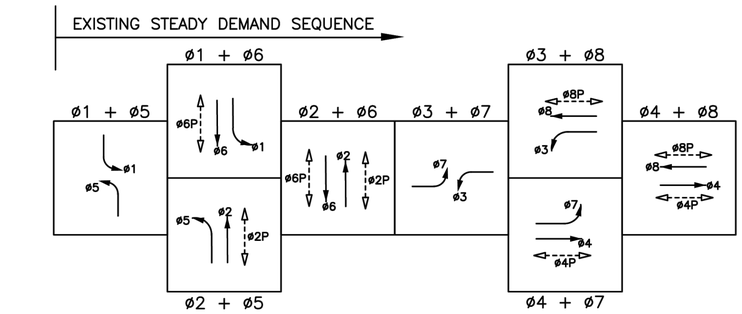
CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 2070LX TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE UP BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT
4. EXCEPT FOR THE SIGNAL LENSES, REPAINT EXISTING TRAFFIC SIGNAL ASSEMBLY WITH FLAT BLACK PAINT (RAL 9005 JET BLACK OR EQUAL). ALL SURFACES SHALL BE PROPERLY CLEANED AND PREPARED PRIOR TO PAINTING. AFTER SIGNAL HEADS HAVE BEEN PAINTED AND HAVE DRIED, FURNISH AND INSTALL 2 INCH MINIMUM YELLOW RETROREFLECTIVE STRIP ALONG THE PERIMETER OF SIGNAL BACKPLATE PER CALTRANS STANDARD ES-4C.
5. EXISTING TYPE III SERVICE ENCLOSURE.
6. FURNISH AND INSTALL 1" GRC WITH ONE (1) 3 CONDUCTOR SIGNAL CABLE.
7. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.
8. EXISTING 2" C, 1 SIC.

LEGEND (THIS SHEET ONLY):

- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL)
- EXISTING SURVEILLANCE CAMERA
- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- CL CENTER LINE
- R/W EXISTING RIGHT OF WAY
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN

POLE PLACEMENT LOCATION		
POLE	LOCATION	
I	GEER ROAD	STA 95 + 20.19, 40.98' L
J	GEER ROAD	STA 95 + 31.66, 63.21' L



SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-4. Geer Road at Monte Vista Avenue Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	A. BENAVIDES/ C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & MONTE VISTA

Sheet 240 of 256 Sheets

E-1

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE											
			** 1	2	3	4	5	6	7	8	9	10	11	12
			1.5"	2-4"	2-4"	4"	2"	2½"	4"	3"	3"	3"	2"	2"
CONDUIT FILL			11%	19%	20%	15%	42%	11%	26%	34%	27%	18%	25%	6%
12 COND. CABLE (VEH.) (PED.) *	A	3,8,6P / 6P		1 / 1	1 / 1				1 / 1					
	B	5,6,8P / 8P		1 / 1	1 / 1	1 / 1								
	C	2,5,8P / 8P		1 / 1	1 / 1	1 / 1	1 / 1							
	D	7,8,2P / 2P		1 / 1	1 / 1	1 / 1	1 / 1	1 / 1						
	E	4,7,2P / 2P		1 / 1	1 / 1				1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	
	F	1,2,4P / 4P		1 / 1	1 / 1				1 / 1	1 / 1	1 / 1	1 / 1		
	G	1,6,4P / -		1 / -	1 / -				1 / -	1 / -	1 / -			
	H	3,4,6P / -		1 / -	1 / -				1 / -	1 / -				
3 COND. CABLE (APS) *	I	- / 4P		- / 1	- / 1				- / 1	- / 1	- / 1			
	J	- / 6P		- / 1	- / 1				- / 1	- / 1				
TOTAL				8 / 8	8 / 8	3 / 3	2 / 2	1 / 1	5 / 5	4 / 4	3 / 3	2 / 2	1 / 1	
# 4	SIGNAL POWER		(2)											
# 8	SAFETY LIGHTS				2	2	2		2	2	2	2	2	2
# 10	BONDING WIRE			1	1	1	1	1	1	1	1	1	1	1
# 10	IISNS				2	2	2		2	2	2	2	2	2
4 - # 14	INTERCONNECT			(1)										
CAT 5E	VIDEO DETECTION			4	4	1	1		3	2	2	1	1	
CAMERAS				(9)	(9)	(2)	(2)		(7)	(4)	(4)	(2)	(2)	
EVP CABLE 3 COND.	EVA (N/B)			1	1	1	1							
	EVB (E/B)			1	1				1					
	EVC (S/B)			1	1				1	1	1			
	EVD (W/B)			1	1				1					

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
** ASSUMED CONDUIT SIZE.
ALL NEW CONDUCTORS ARE INDICATED WITH "#".
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "(#)".
ALL EXISTING CONDUCTORS NOT NOTED TO REMAIN WITHIN EXISTING SIGNAL CONDUIT ARE TO BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	XX–XX–XXX	35'	15'	MAT / MAT	SV–1–T (N)	6	SP–1–T	6 (N)	LEFT (N)	101W	1955	evd / evb	EXISTING IISNS "GEER RD" AND SURVEILLANCE CAMERA ON SMA AND IP CAMERA ON SIGNAL POLE TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T (N)	8	SP–1–T	8 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
C	XX–XX–XXX	35'	15'	MAT / MAT	SV–1–T (N)	8	SP–1–T	8 (N)	LEFT (N)	101W	774	eva	EXISTING IISNS "E MONTE VISTA AVE/ UNIVERSITY WAY" AND SURVEILLANCE CAMERA ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING ANTENNA ON POLE STANDARD TO REMAIN. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T	2	SP–1–T	2 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
E	XX–XX–XXX	40'	15'	MAT / MAT	SV–1–T (N)	2	SP–1–T	2 (N)	LEFT (N)	101W	776	–	EXISTING IISNS "GEER RD" AND SURVEILLANCE CAMERA ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. EXISTING ANTENNA ON POLE STANDARD TO REMAIN. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
F	1–A (10')	–	–	–	TV–2–T (N)	4	SP–1–T	4 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE. FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
G	XX–XX–XXX	30'	15'	MAT / MAT	SV–1–T (N)	4	SP–1–T	–	–	132W	–	evc	EXISTING IISNS "E MONTE VISTA AVE/ UNIVERSITY WAY" AND SURVEILLANCE CAMERA ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING ANTENNA ON POLE STANDARD TO REMAIN. REMOVE AND SALVAGE EXISTING VEHICLE HEAD MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–2–T	6	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
I	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	4 (N)	LEFT (N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.
J	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	6 (N)	RIGHT (N)	–	–	–	FURNISH AND INSTALL APS ASSEMBLY COMPLETE WITH MOUNTING HARDWARE. TRIM TYPE 2 POST TO WORKMAN LIKE MANNER AND INSTALL POLE CAP.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES (SHEETS E-1 THROUGH E-3 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA INAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-4, Geer Road at Monte Vista Avenue Traffic Signal\Geer Road at Monte Vista Avenue Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES/ C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

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CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & MONTE VISTA

E-2

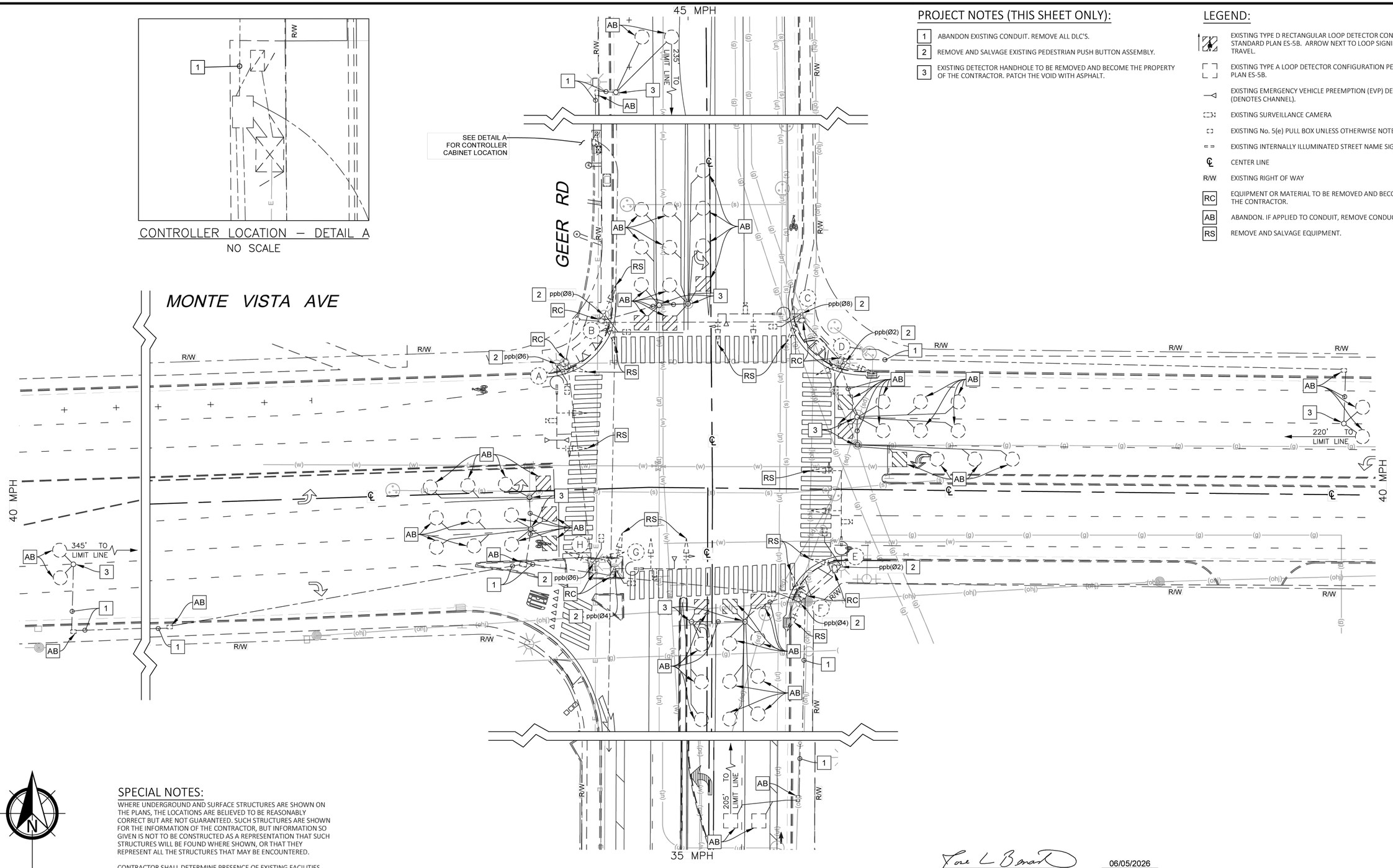
CONTROLLER LOCATION – DETAIL A
NO SCALE

PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING SURVEILLANCE CAMERA
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT.



SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Bonavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	A. BENAVIDES/ C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION
GEER RD & MONTE VISTA

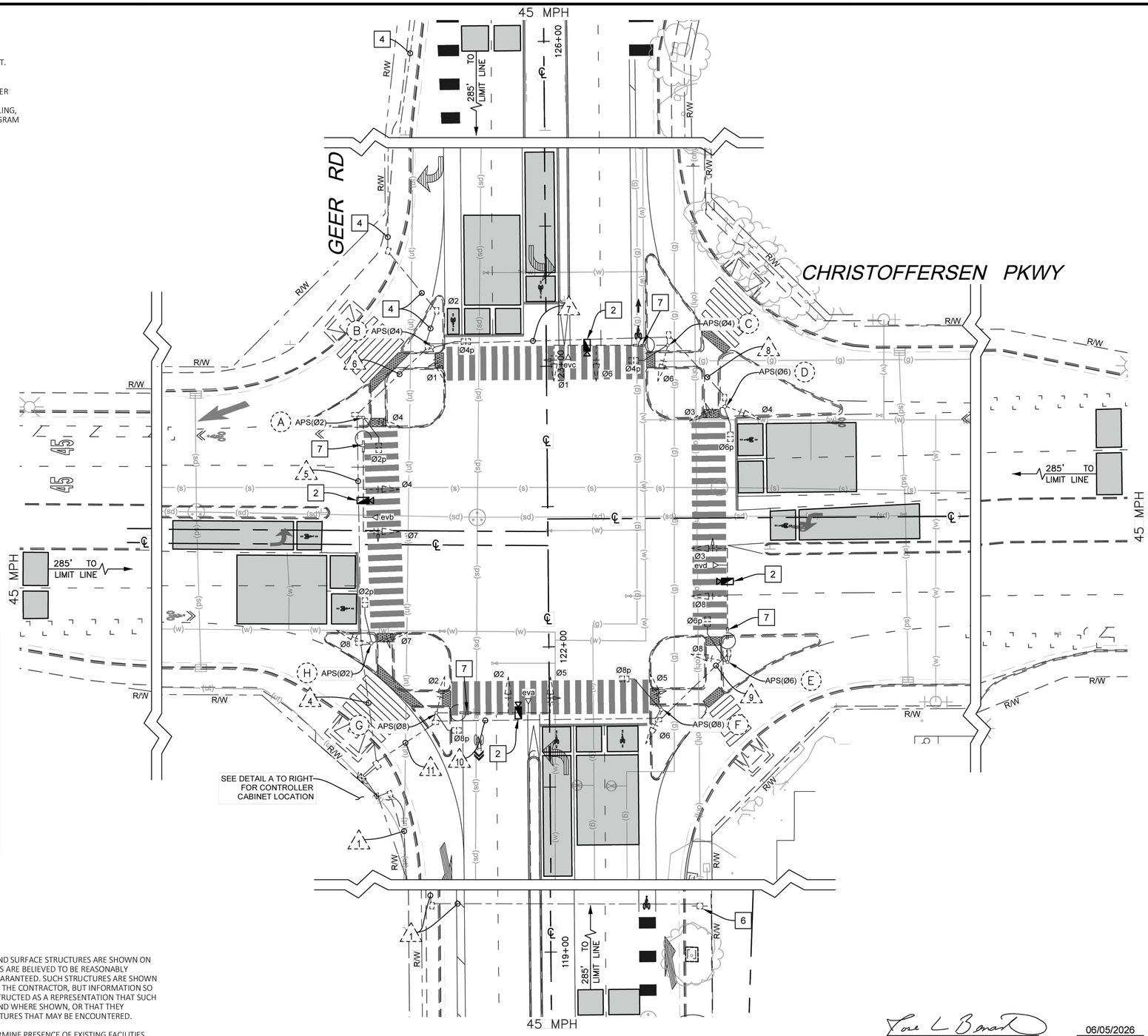
Sheet 242 of 256 Sheets

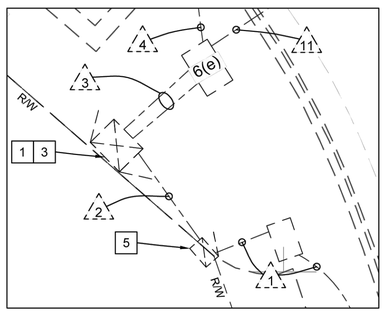
E-3

PATH:Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-4. Geer Road at Monte Vista Avenue Traffic Signal\Geer Road at Monte Vista Avenue Traffic Signal.dwg

LEGEND (THIS SHEET ONLY):

- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL)
- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- CENTER LINE
- R/W EXISTING RIGHT OF WAY
- APS ACCESSIBLE PEDESTRIAN SIGNAL



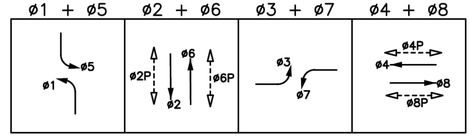


CONTROLLER LOCATION – DETAIL A
NO SCALE

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 170E TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT
4. EXISTING 2" C, 1 SIC.
5. EXISTING TYPE III SERVICE ENCLOSURE.
6. EXISTING ELECTRICAL POINT OF SERVICE ON POWER POLE.
7. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.

EXISTING STEADY DEMAND SEQUENCE



EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4 + ø7
evc = ø6 + ø1
evd = ø8 + ø3

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Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-3 Geer Road at Christoffersen Parkway Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	D. CERVANTES/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET GEER RD & CHRISTOFFERSEN PKWY

E-4

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE										
			1	2	3	4	5	6	7	8	9	10	11
			2"	2.5"	2-4"	4"	4"	4"	3"	3"	3"	3"	4"
CONDUIT FILL			16%	7%	18%	23%	19%	14%	16%	7%	10%	16%	14%
12 COND. CABLE (VEH.) (PED.) *	A	4,7,2p / 2P			1 / 1	1 / 1	1 / 1						
	B	1,2,4p / 4P			1 / 1	1 / 1	1 / 1	1 / 1					
	C	1,6,4p / 4P			1 / 1	1 / 1	1 / 1	1 / 1	1 / 1				
	D	3,4,6p / 6P			1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1			
	E	3,8,6p / 6P			1 / 1						1 / 1	1 / 1	1 / 1
	F	5,6,8p / 8P			1 / 1							1 / 1	1 / 1
3 COND. CABLE (APS) *	G	2,5,8p / 8P			1 / 1								1 / 1
	H	7,8,2p / 2P			1 / 1	1 / 1							
TOTAL					8 / 8	5 / 5	4 / 4	3 / 3	2 / 2	1 / 1	1 / 1	2 / 2	3 / 3
** TYPE B DETECTOR LEAD-IN CABLE	Ø1				[1]							[1]	[1]
	Ø2				[4]	[4]	[4]	[4]					
	Ø3				[1]								
	Ø4				[4]	[4]	[4]	[4]	[4]	[4]			
	Ø5				[1]	[1]	[1]	[1]					
	Ø6				[4]							[4]	[4]
	Ø7				[1]	[1]	[1]	[1]	[1]	[1]			
	Ø8				[4]								
	TOTAL DLC				[20]	[10]	[10]	[10]	[5]	[5]		[5]	[5]
1/0	SERVICE	3											
# 4	SIGNAL POWER		2										
# 10	SAFETY LIGHTS			2	2	2	2	2	2		2	2	2
# 10	IISNS			2	2	2	2	2	2		2	2	2
CAT5E	VIDEO DETECTION				(4)	(2)	(2)	(1)	(1)		(1)	(1)	(2)
SIGNAL INTERCONNECT CABLE					1	1	1	1					
EVP CABLE 3 COND.	EVA (S/B)				1								1
	EVB (W/B)				1	1	1						
	EVC (N/B)				1	1	1	1	1				
	EVD (E/B)				1						1	1	1

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "#".
ALL NEW CONDUCTORS ARE INDICATED WITH "(#)".
ALL CONDUCTORS WHICH ARE TO BE REMOVED ARE INDICATED WITH [#]".

** ALL EXISTING DLC'S SHALL BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	26–4–70	40'	12'	MAS / MAS	SV–1–T	2	SP–1–T	2 (N)	LEFT (N)	101W	71721	evb	EXISTING IISNS "GEER RD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
B	1–A (10')	–	–	–	TV–2–T	4	SP–1–T	4 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
C	26–4–70	40'	12'	MAS / MAS	SV–1–T	4	SP–1–T	4 (N)	LEFT (N)	101W	71720	evc	EXISTING IISNS "E CHRISTOFFERSON PKWY" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 4000" AND "E CHRISTOFFERSON PKWY XXX" ON POLE STANDARD TO REMAIN. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
D	1–A (10')	–	–	–	TV–2–T	6	SP–1–T	6 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
E	26–4–70	40'	12'	MAS / MAS	SV–1–T	6	SP–1–T	6 (N)	LEFT (N)	101W	71722	evd	EXISTING IISNS "GEER RD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
F	1–A (10')	–	–	–	TV–2–T	8	SP–1–T	8 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
G	26–4–70	40'	12'	MAS / MAS	SV–1–T	8	SP–1–T	8 (N)	LEFT (N)	101W	71723	eva	EXISTING IISNS "W CHRISTOFFERSON PKWY" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 3900" AND "W CHRISTOFFERSON PKWY XXX" ON POLE STANDARD TO REMAIN. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.
H	1–A (10')	–	–	–	TV–2–T	2	SP–1–T	2 (N)	RIGHT (N)	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES(SHEETS E-4 TO E-6):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: D. CERVANTES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & CHRISTOFFERSEN PKWY

E–5

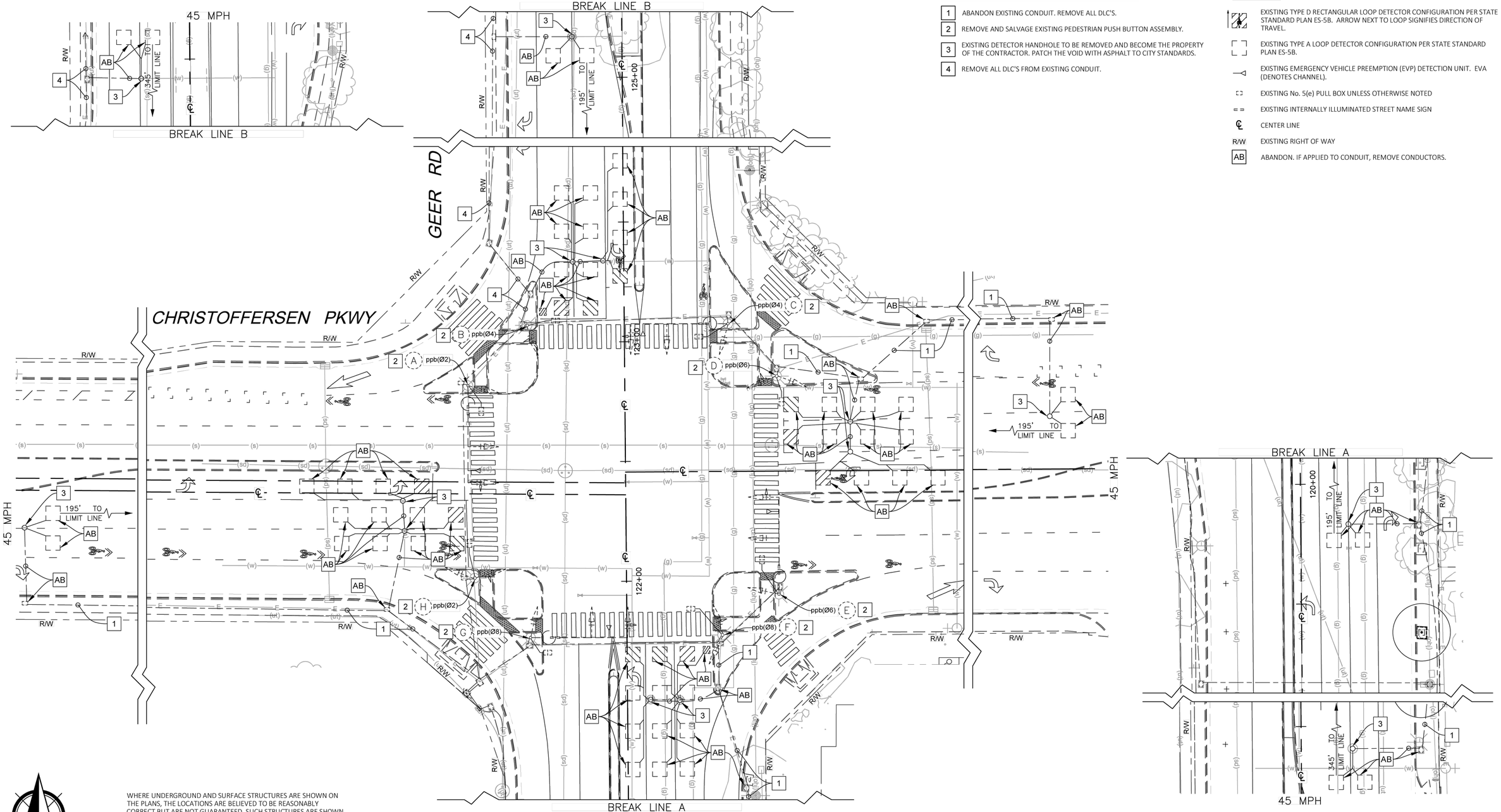
PATH: Z:\01 Projects\058 Turlock\058–003 Geer Road Signals\10 Traffic Signal Designs\P1–3, Geer Road at Christoffersen Parkway Traffic Signal\Geer Road at Christoffersen Parkway Traffic Signal.dwg

PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT TO CITY STANDARDS.
4. REMOVE ALL DLC'S FROM EXISTING CONDUIT.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.



WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-3. Geer Road at Christoffersen Parkway Traffic Signal\Geer Road at Christoffersen Parkway Traffic Signal.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	D. CERVANTES/C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

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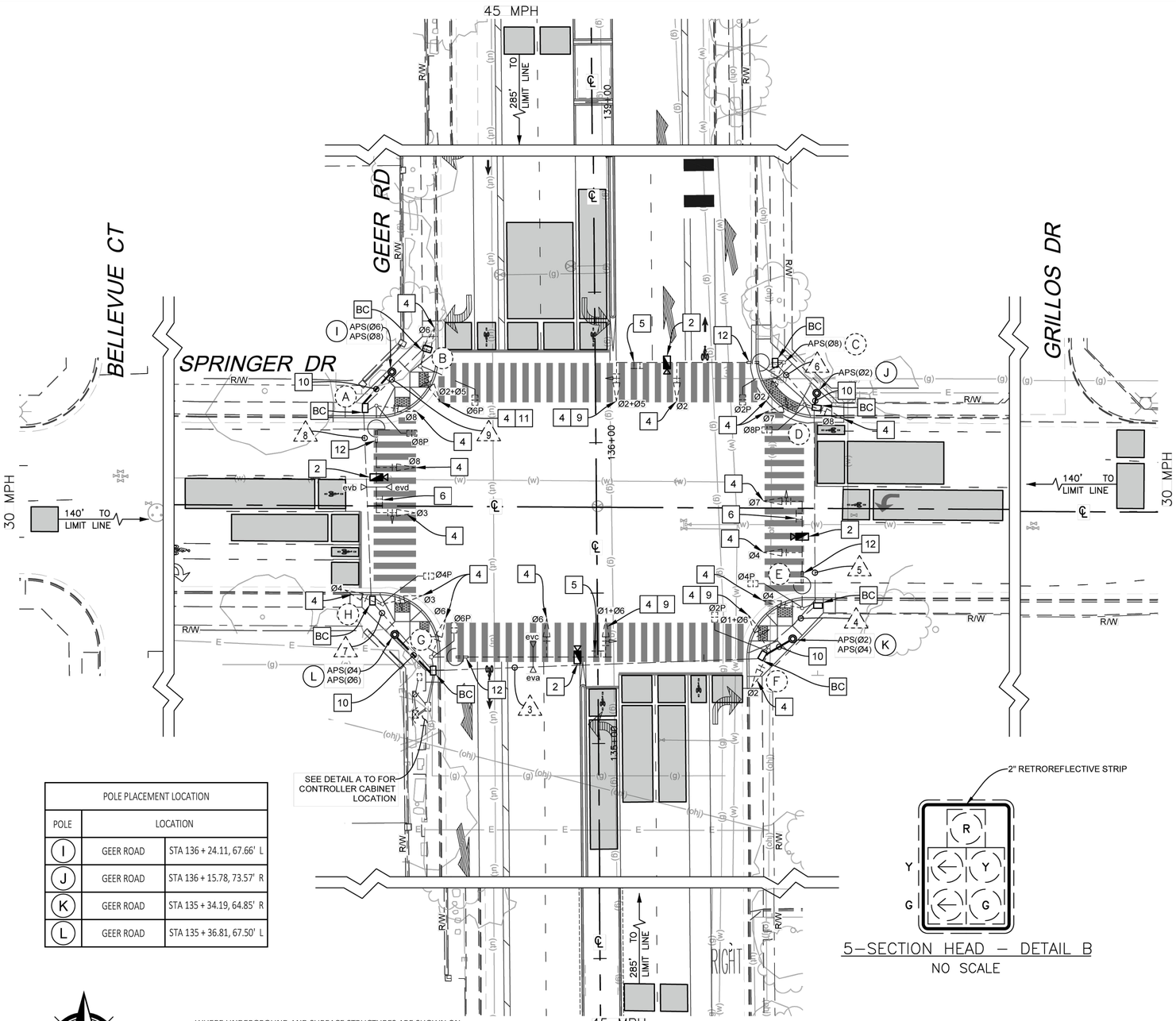
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & CHRISTOFFERSEN PKWY

E-6

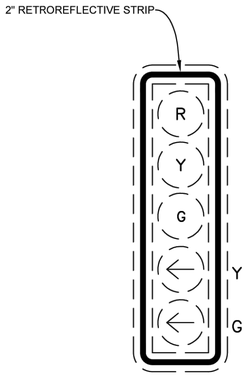


POLE PLACEMENT LOCATION		
POLE	LOCATION	
I	GEER ROAD	STA 136 + 24.11, 67.66' L
J	GEER ROAD	STA 136 + 15.78, 73.57' R
K	GEER ROAD	STA 135 + 34.19, 64.85' R
L	GEER ROAD	STA 135 + 36.81, 67.50' L

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

5-SECTION HEAD – DETAIL B
NO SCALE



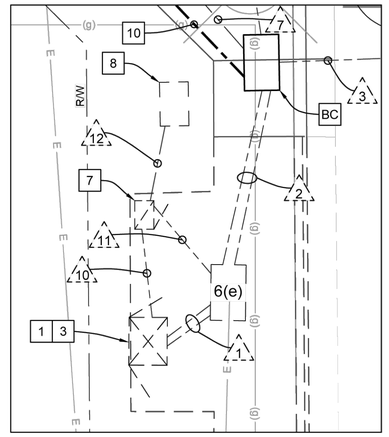
5-SECTION HEAD – DETAIL C
NO SCALE

CONSTRUCTION NOTES (THIS SHEET ONLY):

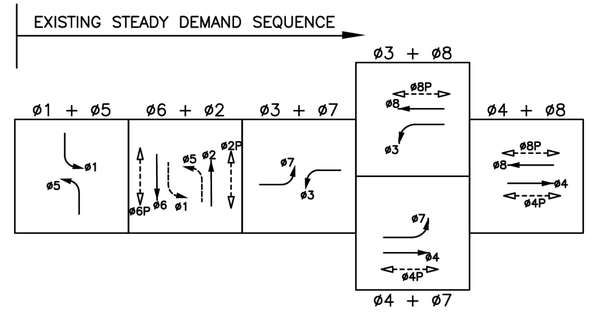
1. EXISTING MODEL 332 CABINET AND TYPE 170E TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY. UNFASTEN THE EXISTING TRAFFIC SIGNAL CONTROLLER AND MOVE UP BY 1 RACK UNIT SO THAT THE LCD MONITOR DRAWER RACK MOUNT CAN BE INSTALLED BELOW THE CONTROLLER. MOUNT THE NEW LCD MONITOR WITH THE MONITOR DRAWER RACK MOUNT DIRECTLY BELOW THE EXISTING CONTROLLER AND PLACE THE POWER INJECTOR/CABINET INTERFACE UNIT ON TOP OF THE EXISTING CONTROLLER.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE AT I-12/I-13 WITH THE CARD EDGE PLUGGED INTO I-13. 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 CITY THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES. THE MEANS OF PROGRAMMING THE APS MUST MEET THE REQUIREMENTS OF THE MANUFACTURERS APPROVED AND TESTED DEVICES' LIST. THE CONTRACTOR OR VENDOR REPRESENTATIVE SHALL INSTALL THE INITIAL PROGRAMMING WITH THE SUBMITTED UNIT WITH THE CITY PRESENT. UPON COMPLETION, CONTRACTOR WILL PROVIDE THE CITY WITH THE PROGRAMMING UNIT.
4. EXCEPT FOR THE SIGNAL LENSES, REPAINT EXISTING TRAFFIC SIGNAL ASSEMBLY WITH FLAT BLACK PAINT (RAL 9005 JET BLACK OR EQUAL). ALL SURFACES SHALL BE PROPERLY CLEANED AND PREPARED PRIOR TO PAINTING. AFTER SIGNAL HEADS HAVE BEEN PAINTED AND HAVE DRIED, FURNISH AND INSTALL 2 INCH MINIMUM YELLOW RETROREFLECTIVE STRIP ALONG THE PERIMETER OF SIGNAL BACKPLATE PER CALTRANS STANDARD ES-4C.
5. EXISTING R10-12 SIGNAL MAST ARM SIGN.
6. EXISTING R73-3 (CA) SIGNAL MAST ARM SIGN.
7. EXISTING TYPE III SERVICE ENCLOSURE.
8. EXISTING POINT OF SERVICE.
9. EXISTING FIVE SECTION SIGNAL HEAD PER DETAIL B ON THIS SHEET.
10. FURNISH AND INSTALL 1" GRC WITH TWO (2) 3 CONDUCTOR SIGNAL CABLE.
11. EXISTING FIVE SECTION HEAD PER DETAIL C ON THIS SHEET.
12. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.

LEGEND (THIS SHEET ONLY):

- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED.
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL)
- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- = = EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- BC INSTALL PULL BOX INTO EXISTING CONDUIT RUN.



CONTROLLER LOCATION – DETAIL A
NO SCALE



EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4 + ø7
evc = ø1 + ø6
evd = ø3 + ø8

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	D. CERVANTES/C. SANCHEZ
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SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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(209) 668-5520

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET
GEER RD & SPRINGER DR

Sheet 246 of 256 Sheets

E-7

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-2. Geer Road at Springer Drive Traffic Signal\Geer Road at Springer Drive Traffic Signal.dwg

CONDUCTOR SCHEDULE

AWG OR CABLE	POLE	Ø	CONDUIT RUN NUMBER AND SIZE											
			1	2	3	4	5	6	7	8	9	10	11	12
			2-4"	2-4"	4"	4"	4"	3"	4"	4"	4"	2"	2"	2"
CONDUIT FILL			17%	18%	17%	12%	9%	7%	13%	10%	3%	5%	7%	13%
12 COND. CABLE (VEH.) (PED.) *	A	3,8,8p -	1 [1]	1 [1]					1 [1]	1 [1]				
	B	2,5,6, 6p -	1 [1]	1 [1]					1 [1]	1 [1]	1 [1]			
	C	2,5,2p -	1 [1]	1 [1]	1 [1]	1 [1]	1 [1]	1 [1]						
	D	7,8,8p -	1 [1]	1 [1]	1 [1]	1 [1]	1 [1]							
	E	4,7,4p -	1 [1]	1 [1]	1 [1]	1 [1]								
	F	1,2,6, 2p -	1 [1]	1 [1]	1 [1]									
	G	1,6,6p -	1 [1]	1 [1]										
	H	3,4,4p -	1 [1]	1 [1]					1 [1]					
	I	- 6P,8P	- (2)	- (2)					- (2)	- (2)				
	J	- 2P,8P	- (2)	- (2)	- (2)	- (2)	- (2)							
3 COND. CABLE (APS) *	K	- 2P,4P	- (2)	- (2)	- (2)									
	L	- 4P,6P	- (2)	- (2)										
TOTAL			8 (8)[8]	8 (8)[8]	4 (4)[4]	3 (2)[3]	2 (2)[2]	1 [1]	3 (2)[3]	2 (2)[2]	1 [1]			
** TYPE B DETECTOR LEAD-IN CABLE		Ø1	[2]	[2]					[2]	[2]	[2]			
		Ø2	[8]	[8]	[8]									
		Ø3	[2]	[2]	[2]	[2]								
		Ø4	[4]	[4]					[4]					
		Ø5	[2]	[2]	[2]									
		Ø6	[7]	[7]					[7]	[7]	[7]			
		Ø7	[2]	[2]					[2]					
		Ø8	[3]	[3]	[3]	[3]								
		TOTAL DLC	[30]	[30]	[15]	[5]			[15]	[9]	[9]			
# 2	SERVICE													3
# 6	SIGNAL POWER											2		
# 10	LUMINAIRES			4	2	2	2	2	2	2			4	
# 12	IISNS			4	2	2	2	2	2	2			4	
CAT5E	VIDEO DETECTION		(4)	(4)	(2)	(2)	(1)	(1)	(1)	(1)				
EVP CABLE 3 COND.	EVA (N/B)		1	1										
	EVB (E/B)		1	1					1	1				
	EVC (S/B)		1	1										
	EVD (W/B)		1	1					1	1				

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ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "#".
ALL NEW CONDUCTORS ARE INDICATED WITH "(#)".
ALL CONDUCTORS WHICH ARE TO BE REMOVED ARE INDICATED WITH [#]".

** ALL EXISTING DLC'S SHALL BE REMOVED.

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		HPS LUMINAIRE WATTAGE	PG&E POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	24–4–80	35'	15'	MAS MAS	SV–1–T	8	SP–1–T	–	–	150W	68144	evb evd	EXISTING IISNS "GEER RD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 4200" AND "WEST SPRINGER DR 100" ON POLE STANDARD TO REMAIN
B	1–B (10')	–	–	–	TV–2–T	6	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
C	29–5–80 (25')	55'	15'	MAS MAS	SV–1–T	2	SP–1–T	8 (N)	LEFT (N)	150W	68145	–	EXISTING IISNS "GEER RD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .
D	1–B (10')	–	–	–	TV–2–T	8	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
E	24–4–80	35'	15'	MAS MAS	SV–1–T	4	SP–1–T	–	–	150W	68147	–	EXISTING IISNS "E SPRINGER DR" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY. EXISTING SNS "GEER RD 4400" AND "E SPRINGER DR 100" ON POLE STANDARD TO REMAIN
F	1–B (10')	–	–	–	TV–2–T	2	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
G	61–5–129	60'	15'	MAS MAS	SV–1–T	6	SP–1–T	–	–	150W	68146	eva evc	EXISTING IISNS "GEER RD" ON SMA TO REMAIN. REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
H	1–B (10')	–	–	–	TV–2–T	4	SP–1–T	–	–	–	–	–	REMOVE AND SALVAGE EXISTING PPB ASSEMBLY.
I	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	6 (N) 8 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .
J	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N)	RIGHT (N)	–	–	–	FURNISH AND INSTALL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .
K	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	2 (N) 4 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .
L	TYPE 2 POST (5' 7")(N)	–	–	–	–	–	–	4 (N) 6 (N)	LEFT (N) RIGHT (N)	–	–	–	FURNISH AND INSTALL DUAL APS PPB ASSEMBLY COMPLETE WITH MOUNTING HARDWARE .

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL SIGNAL BACKPLATES SHALL BE MODIFIED TO INCLUDE 2" MINIMUM YELLOW RETROREFLECTIVE STRIP PER CALTRANS STANDARD PLAN ES-4C.

GENERAL NOTES (SHEETS E-7 THROUGH E-9 ONLY):

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

PATH:Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-2. Geer Road at Springer Drive Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: D. CERVANTES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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516 WEST SHAW AVENUE, SUITE 103
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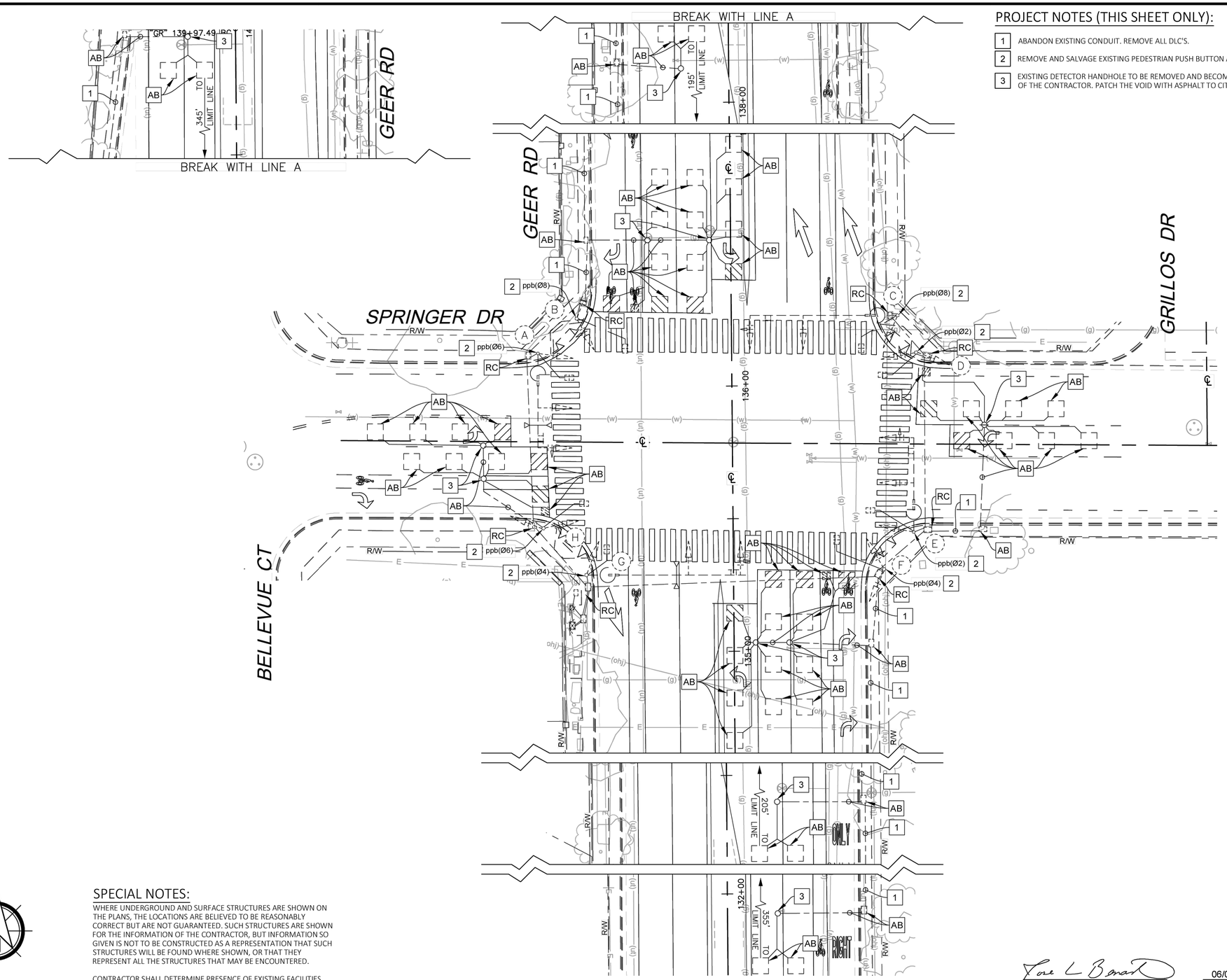
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & SPRINGER DR



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY.
3. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT TO CITY STANDARDS.

LEGEND:

- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

R.C.E. 62971 — DATE 06/05/2026

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-2 Geer Road at Springer Drive Traffic Signal\Geer Road at Springer Drive Traffic Signal.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: D. CERVANTES/C. SANCHEZ
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER — JOSE LUIS BENAVIDES — No.C 62971 Exp:06/30/26 — CIVIL — STATE OF CALIFORNIA

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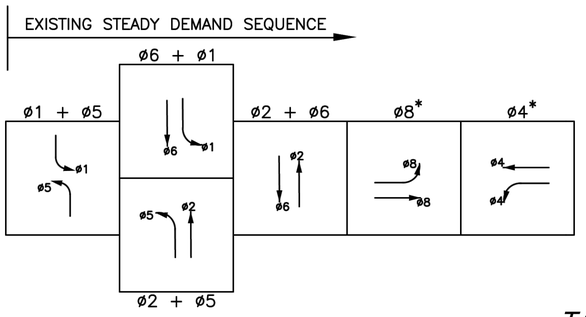
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & SPRINGER DR

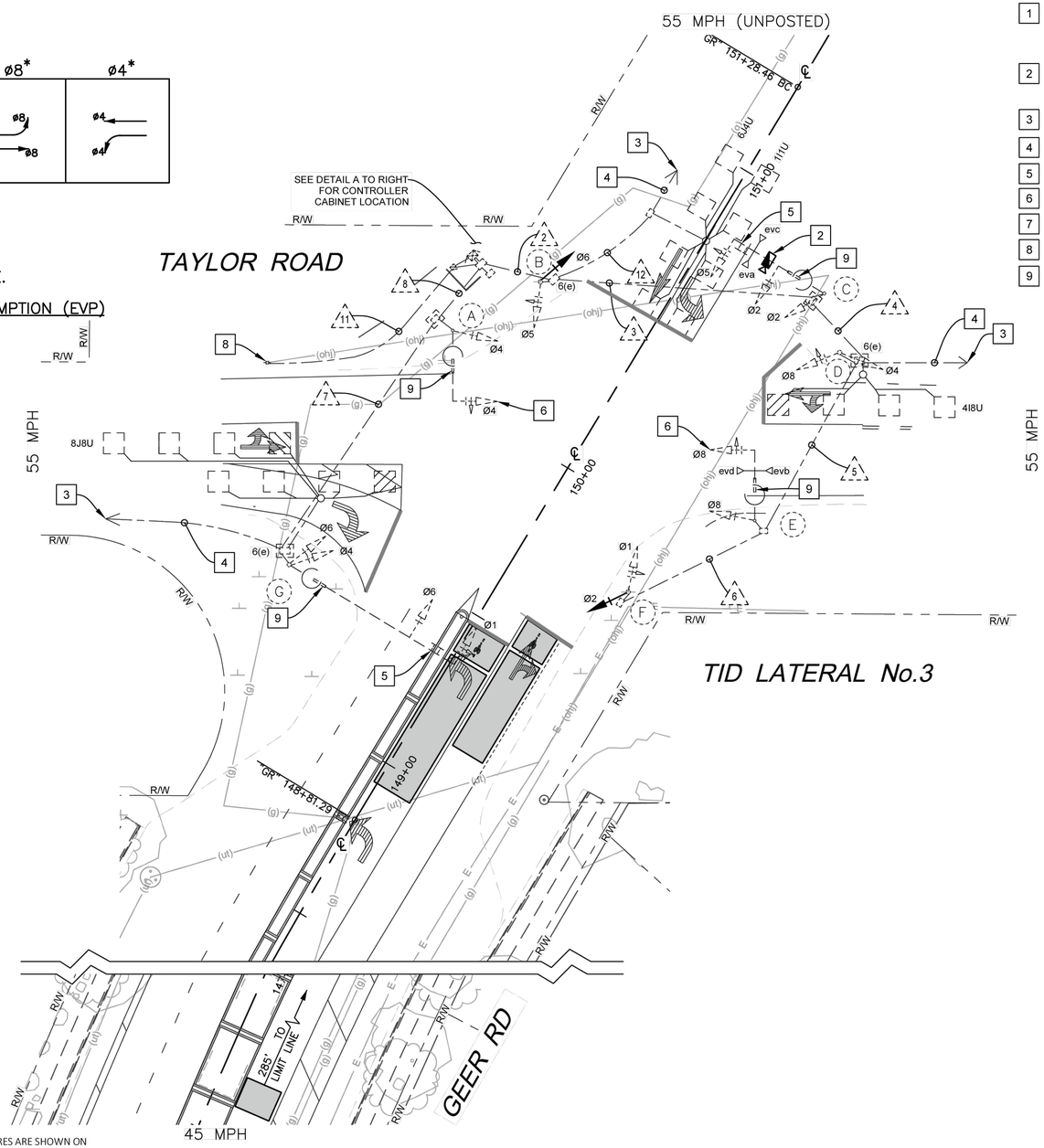
E-9



* PHASES 4 AND 8 ARE EXCLUSIVE.

EXISTING EMERGENCY VEHICLE PREEMPTION (EVP)

eva = ø2 + ø5
evb = ø4
evc = ø1 + ø6
evd = ø8

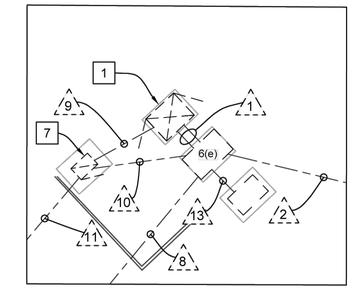


CONSTRUCTION NOTES (THIS SHEET ONLY):

1. EXISTING MODEL 332 CABINET AND TYPE 170E TRAFFIC SIGNAL CONTROLLER TO REMAIN. REMOVE AND SALVAGE ALL 222 LOOP DETECTOR CARDS CURRENTLY BEING USED BY PHASES Ø2 AND Ø5. FURNISH AND INSTALL LCD MONITOR WITH MONITOR DRAWER RACK MOUNT, POWER INJECTOR AND FULL CABINET INTERFACE UNIT ASSEMBLY.
2. FURNISH AND INSTALL HYBRID RADAR/VIDEO DETECTION CAMERA, CABLES AND ALL NECESSARY EQUIPMENT. THE FINAL LOCATION OF THE CAMERA SHALL BE DETERMINED BY THE MANUFACTURER.
3. TO ADVANCE DETECTOR LOOP(S).
4. EXISTING 1½" C, 2 dlc.
5. EXISTING 73-3(CA) SIGNAL MAST ARM SIGN.
6. EXISTING 4-SECTION HEAD.
7. EXISTING TYPE III SERVICE ENCLOSURE TO REMAIN.
8. EXISTING ELECTRICAL POINT OF SERVICE ON POWER POLE.
9. EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN MOUNTED ON MAST ARM.

LEGEND (THIS SHEET ONLY):

- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING No. 5(e) PULL BOX, UNLESS OTHERWISE NOTED, WITH A 12" CONCRETE COLLAR.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL)
- EXISTING DETECTOR HANDHOLE.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- HYBRID RADAR/VIDEO DETECTION CAMERA. ACTUAL PLACEMENT PER MANUFACTURER'S STAFF DIRECTION. PLACEMENT ON POLE TO BE DETERMINED BY MANUFACTURER. PRIOR TO CONTRACTOR INSTALLING, CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO PROGRAM VDS SYSTEM.
- CAMERA DETECTION ZONE, CALIBRATE EQUIPMENT TO PROJECT REQUIREMENTS. COORDINATE ZONE BOUNDARIES WITH THE CITY ENGINEER OR THEIR DESIGNEE.
- ℄ CENTER LINE
- APS ACCESSIBLE PEDESTRIAN SIGNAL
- R/W EXISTING RIGHT OF WAY



CONTROLLER LOCATION – DETAIL A
NO SCALE

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE 20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM PLAN SHEET GEER RD & TAYLOR RD

E-10

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-1. Geer Road at Taylor Road Traffic Signal\Geer Road at Taylor Road Traffic Signal.dwg

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
			2-3"	3"	3"	3"	3"	3"	3"	3"	1½"	2"	2"	2"	2"
CONDUIT FILL			29%	40%	30%	22%	14%	5%	15%	20%	11%	4%	13%	11%	1%
12 COND. CABLE (VEH.) *	A	4	1							1					
	B	5,6	1	1											
	C	2,5	1	1	1										
	D	4,8	1	1	1	1									
	E	8	1	1	1	1	1								
	F	1,2	1	1	1	1	1	1							
	G	1,4,6	2						2	2					
TOTAL			8	5	4	3	2	1	2	3					
TYPE B DETECTOR LEAD-IN CABLE	Ø1		2	2										2	
	Ø2		[3]	[3]	[3]	[3]	[3]	[3]							
	Ø4		3	3	3	3									
	Ø5		[2]	[2]	[2]	[2]	[2]	[2]							
	Ø6		3	3										3	
	Ø8		3						3	3					
	TOTAL DLC		11[5]	8[5]	3[5]	3[5]	[5]	[5]	3	3				5	
# 2	SERVICE												3		
# 4	SIGNAL POWER										2				
# 10	LUMINAIRES			2	2	2	2		2	2		2			
# 10	IISNS			2	2	2	2		2	2		2			
CAT5E	VIDEO DETECTION		(1)	(1)	(1)										
EVP CABLE 3 COND.	EVA (N/B)		1	1	1										
	EVB (W/B)		1	1	1	1	1								
	EVC (S/B)		1	1	1										
	EVD (E/B)		1	1	1	1	1								

* NUMBER INDICATIONS ARE THE NUMBER OF CABLES WITHIN CONDUIT.
ALL EXISTING CONDUCTORS TO REMAIN ARE INDICATED WITH "#".
ALL NEW CONDUCTORS ARE INDICATED WITH "(#)".
ALL CONDUCTORS WHICH ARE TO BE REMOVED ARE INDICATED WITH {#}".

EQUIPMENT SCHEDULE

No.	STANDARD			VEH SIG MTG		PED SIGNAL		APS		LED LUMINAIRE WATTAGE	POLE No.	EV	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.	Mast Arm	Pole	Ø	MTG	Ø	ARROW			PREEMPT	
A	17–2–70	20'	15'	MAS–4B	SV–1–T	–	–	–	–	108W	2841	–	EXISTING IISNS "GEER RD" ON SMA TO REMAIN.
B	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–	–	–	EXISTING SNS "GEER RD 4500" AND "W TAYLOR RD 000" ON POLE STANDARD TO REMAIN. MODIFY EXISTING TV-2-T VEHICLE HEAD BRACKETS AS NEEDED TO INSTALL 12" 3-SECTION HEAD(S) IN PLACE OF THE EXISTING 8" 3-SECTION HEAD(S).
C	19–4–70	30'	15'	MAT MAT	SV–1–T	–	–	–	–	70W	2842	EVA EVC	EXISTING EVPS AND IISNS "TAYLOR RD" ON SMA TO REMAIN.
D	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–	–	–	
E	17–2–70	20'	15'	MAS–4B	SV–1–T	–	–	–	–	81W	2843	EVB EVD	EXISTING EVPS AND IISNS "GEER RD" ON SMA TO REMAIN.
F	1–A (10')	–	–	–	TV–2–T	–	–	–	–	–	–	–	EXISTING SNS "GEER RD 4800" AND "E TAYLOR RD 000" ON POLE STANDARD TO REMAIN. MODIFY EXISTING TV-2-T VEHICLE HEAD BRACKETS AS NEEDED TO INSTALL 12" 3-SECTION HEAD(S) IN PLACE OF THE EXISTING 8" 3-SECTION HEAD(S).
G	29–5–70	55'	15'	MAT MAT	SV–2–T	–	–	–	–	104W	2844	–	EXISTING IISNS "TAYLOR RD" ON SMA TO REMAIN.

NOTES: 1. ALL EQUIPMENT IS EXISTING UNLESS NOTED WITH (N).
2. ALL BACKPLATES SHALL HAVE 2" MINIMUM YELLOW RETOREFLECTIVE STRIP ALONG PERIMETER OF SIGNAL BACKPLATE TO PROJECT A RECTANGULAR APPEARANCE AT NIGHT.

GENERAL NOTES (SHEET 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, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND VEHICLE DETECTION, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" SIGNAL STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH. ALL NEW SIGNAL CONDUCTORS SHALL INCLUDE THREE (3) FEET OF SLACK AT ALL PULL BOXES.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA iNAVIGATOR2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S 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. THE APS SHALL BE EQUIPPED WITH A 9" X 12" R10-3B MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
11. 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.

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES
CHECKED BY: J. BENAVIDES
SCALE: NO SCALE
DATE: 06/05/2026
JOB NO.: 058–003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
20 0 20 40

REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
FRESNO, CALIFORNIA 93704
PHONE: (559) 570–8991
EMAIL: info@JLBtraffic.com

CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

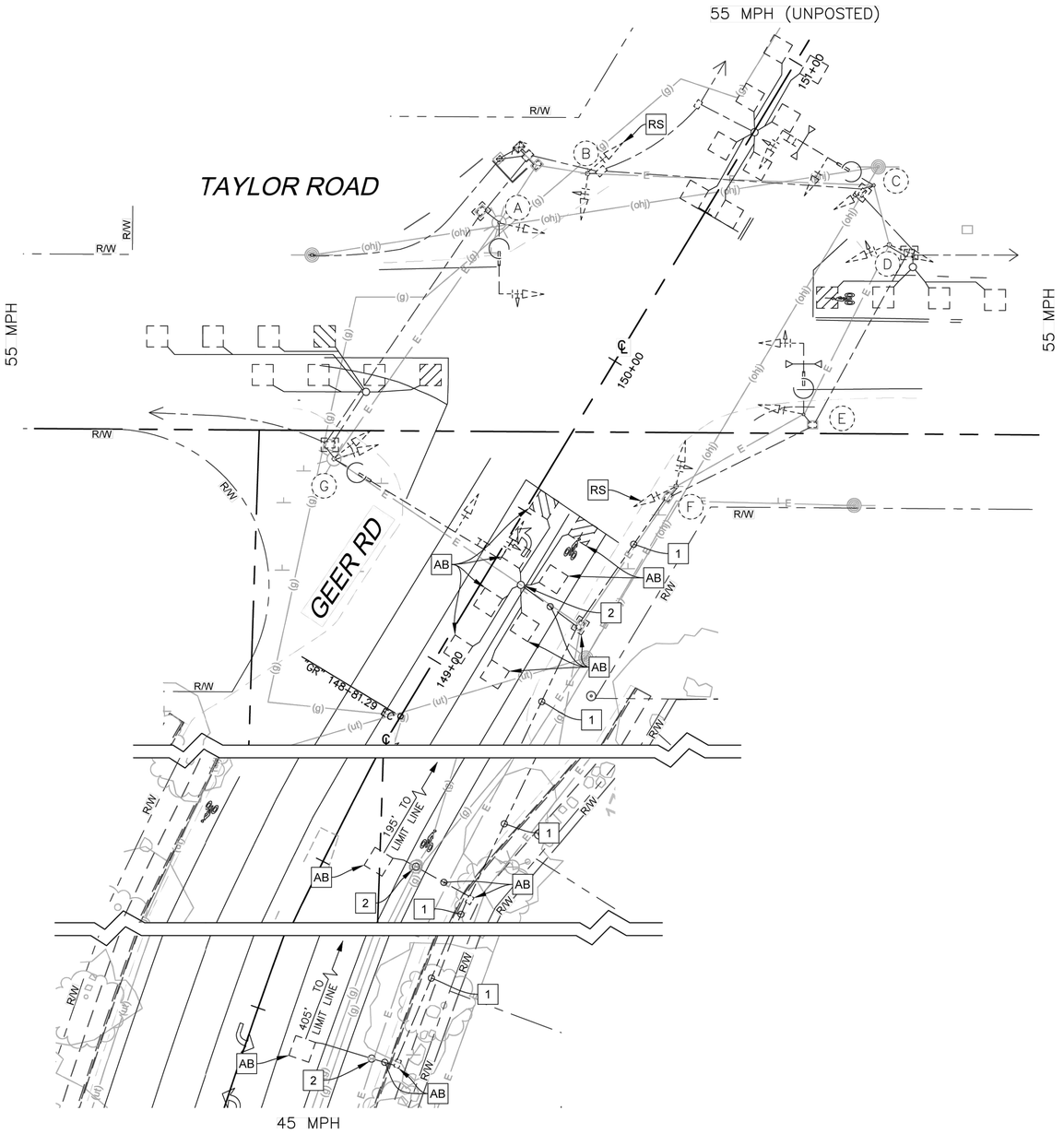
CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM CONDUCTOR & EQUIPMENT SCHEDULES GEER RD & TAYLOR RD

Sheet 250 of 256 Sheets

E–11

PATH: Z:\01 Projects\058 Turlock\058–003 Geer Road Signals\10 Traffic Signal Designs\P1–1. Geer Road at Taylor Road Traffic Signal\Geer Road at Taylor Road Traffic Signal.dwg



PROJECT NOTES (THIS SHEET ONLY):

1. ABANDON EXISTING CONDUIT. REMOVE ALL DLC'S.
2. EXISTING DETECTOR HANDHOLE TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. PATCH THE VOID WITH ASPHALT.

LEGEND:

- EXISTING TYPE A LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B.
- EXISTING TYPE D RECTANGULAR LOOP DETECTOR CONFIGURATION PER STATE STANDARD PLAN ES-5B. ARROW NEXT TO LOOP SIGNIFIES DIRECTION OF TRAVEL.
- EXISTING EMERGENCY VEHICLE PREEMPTION (EVP) DETECTION UNIT. EVA (DENOTES CHANNEL).
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED.
- EXISTING No. 5(e) PULL BOX UNLESS OTHERWISE NOTED, WITH A 12" CONCRETE COLLAR.
- EXISTING INTERNALLY ILLUMINATED STREET NAME SIGN
- ℄ CENTER LINE
- R/W EXISTING RIGHT OF WAY
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- RS REMOVE AND SALVAGE EQUIPMENT.

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

Jose L Benavides
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES
DRAWN BY: A. BENAVIDES
CHECKED BY: J. BENAVIDES
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
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USA NORTH 811 Call 811 Before You Dig

SCALE
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REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
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CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

MODIFYING TRAFFIC SIGNAL SYSTEM DEMOLITION PLAN GEER RD & TAYLOR RD

Sheet 251 of 256 Sheets

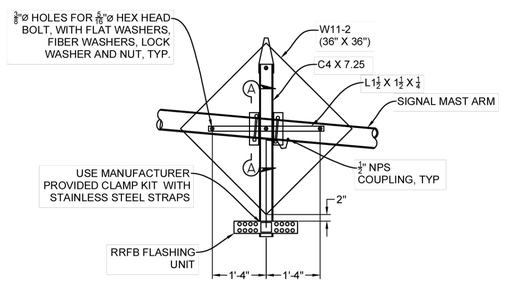
E-12

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\10 Traffic Signal Designs\P1-1. Geer Road at Taylor Road Traffic Signal\Geer Road at Taylor Road Traffic Signal.dwg

EQUIPMENT SCHEDULE

No.	STANDARD			AID ARROW	LED LUMINAIRE WATTAGE	SPECIAL REQUIREMENTS
	Type	Sig. M.A.	Lum.M.A.			
(A)	19–3–100	30’	12’	LEFT	72 W	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS, INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL, AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH LIGHTBARS, ONE W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "CALAVERAS WAY" ON SMA COMPLETE WITH MOUNTING HARDWARE.THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.
(B)	19–3–100 (24')	25’	12’	LEFT	72 W	FURNISH AND INSTALL AC POWERED RRFB SYSTEM COMPLETE WITH DUAL LIGHTBARS, INX AUDIBLE INFORMATION DEVICE (AID) PUSH BUTTON, OR APPROVED EQUAL, AND AC POWER MODULE COMPLETE WITH ALL NECESSARY MOUNTING HARDWARE. LIGHTBARS SHALL BE INSTALLED FOR BI-DIRECTIONAL VIEWING. FURNISH AND INSTALL TWO W11-2 (36"x36") COMPLETE WITH MOUNTING HARDWARE. W11-2 SIGNS SHALL BE INSTALLED BACK TO BACK. FURNISH AND INSTALL COMPLETE WITH MOUNTING HARDWARE ONE W16-7P(L)(24"x12") AND ONE W16-7P(R)(24"x12"). W16-7P SIGNS SHALL BE INSTALLED BACK TO BACK AND ARROWS SHALL POINT TO THE CROSSWALK. FOR MAST ARM, FURNISH AND INSTALL RRFB SYSTEM COMPLETE WITH LIGHTBARS, ONE W11-2 (36"X36") COMPLETE WITH MOUNTING HARDWARE. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS. THIS POLE STANDARD SHALL BE MODIFIED TO A HEIGHT OF 24' IN ORDER TO MEET GO 95 CLEARANCE FROM EXISTING OVERHEAD. FURNISH AND INSTALL INTERNALLY ILLUMINATED SNS "CALAVERAS WAY" ON SMA COMPLETE WITH MOUNTING HARDWARE. THE AID SHALL BE EQUIPPED WITH A 9" X 12" R10-25 MUTCD COMPLIANT SIGN WITH BRAILLE ON THE FACEPLATE, MOUNTED JUST ABOVE THE PUSH BUTTON.

1. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED WITH (E).
2. RECTANGULAR RAPID FLASHING BEACONS SHALL BE ELTEC, CARMANAH, JSF OR APPROVED EQUAL.
3. PEDESTRIAN CROSSING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN.



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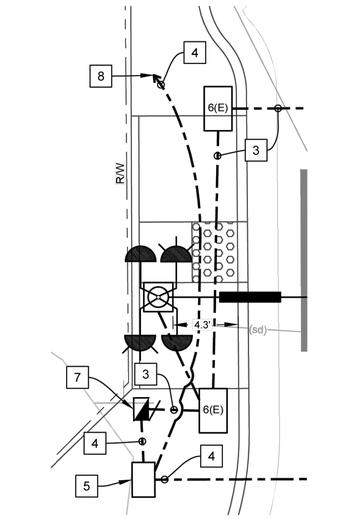

SERVICE PEDESTAL – DETAIL A
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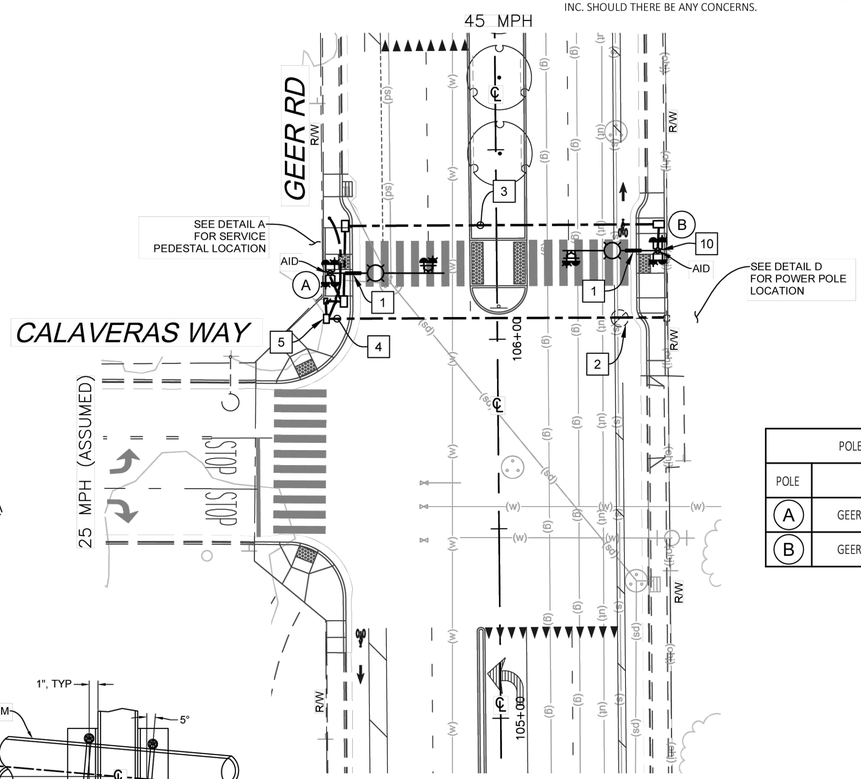

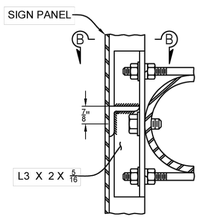

SECTION A–A
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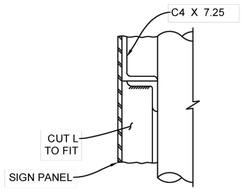

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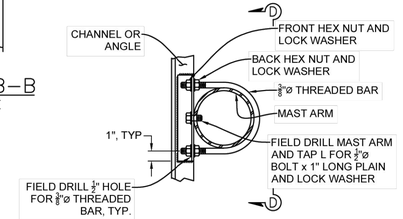

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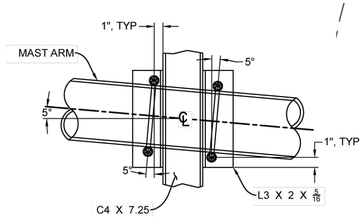


SECTION D–D
NO SCALE

SPECIAL NOTES:

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS ARE BELIEVED TO BE REASONABLY CORRECT BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUCTED AS A REPRESENTATION THAT SUCH STRUCTURES WILL BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL THE STRUCTURES THAT MAY BE ENCOUNTERED.

CONTRACTOR SHALL DETERMINE PRESENCE OF EXISTING FACILITIES AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL INTERNALLY ILLUMINATED STREET NAME SIGN ON SIGNAL MAST ARM COMPLETE WITH MOUNTING HARDWARE PER THE PROJECT SPECIFICATIONS.
2. CONTRACTOR TO COORDINATE WITH TID TO REMOVE AND SALVAGE EXISTING LUMINAIRE MAST ARM AND LUMINAIRE FROM TID WOOD POLE.
3. FURNISH AND INSTALL 3" C WITH 2 #6 (RRFB), 2 #10 (LTG.), 2 #10 (IISNS) AND 1 #8 (GROUND).
4. FURNISH AND INSTALL 3" C WITH TID CONDUCTORS.
5. FURNISH AND INSTALL TID APPROVED PULL BOX.
6. CONTRACTOR TO INSTALL RISER ON THE EXISTING TID WOOD POLE. CONTRACTOR TO COORDINATE WITH TID FOR TID TO CONNECT SERVICE CONDUCTORS TO THE TRANSFORMER.
7. FURNISH AND INSTALL 120/240 V, 3-WIRE, 1Ø, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE CIRCUIT BREAKERS SHOWN BELOW. CONTRACTOR SHALL COORDINATE WITH TID FOR POINT OF SERVICE CONNECTION AND METER SET.

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
15	120	1	RRFB	YES	———
30	240	2	LIGHTING	NO	V
15	120	1	LIGHTING CONTROL	YES	———
20	120	1	SPARE	YES	———

8. TO IRRIGATION SYSTEM ELECTRICAL SERVICE PANEL. SEE IC-1.
9. CONTRACTOR SHALL COORDINATE WITH TID TO INSTALL TRANSFORMER ON THE EXISTING TID WOOD POLE AFTER LUMINAIRE HAS BEEN REMOVED.
10. PRIOR TO ORDERING THE SIGNAL POLES AND AGAIN PRIOR TO POURING THE NEW FOUNDATION, THE CONTRACTOR SHALL FIELD VERIFY THAT THE POLE WILL MEET THE CPUC GENERAL ORDER 95 RADIAL CENTERLINE CLEARANCE OF THE OVERHEAD SUPPLY CABLES. CONTACT JLB TRAFFIC ENGINEERING, INC. SHOULD THERE BE ANY CONCERNS.

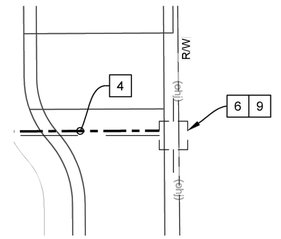
POLE PLACEMENT LOCATION		
POLE	LOCATION	
(A)	GEER ROAD	STA 106 + 17.83, 43.98' L
(B)	GEER ROAD	STA 106 + 23.00, 42.52' R

LEGEND (THIS SHEET ONLY):

- RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- BACK TO BACK RECTANGULAR RAPID FLASHING BEACON (RRFB) DUAL LIGHTBARS
- FURNISH AND INSTALL PRECAST CONCRETE No. 6(E) PULL BOX UNLESS OTHERWISE NOTED.
- CENTER LINE
- AID — AUDIBLE INFORMATION DEVICE
- R/W — EXISTING RIGHT OF WAY

GENERAL NOTES:

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2024 EDITION, REVISION 9 OF THE 2014 CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF TURLOCK DESIGN AND IMPROVEMENT STANDARDS, SPECIFICATIONS AND SPECIAL PROVISIONS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN THESE PLANS WITH REFERENCED DOCUMENTS AND NOTIFY THE CITY OF TURLOCK ON ANY DISCREPANCIES 48-HOURS PRIOR TO COMMENCING WORK.
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 RRFB LOCATION OR LIGHTING CIRCUIT.
4. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
5. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 3 WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.) AT 1-800-227-2600 OR 811. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATION OF SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT UNIT PRICE.
6. ALL RRFB AND LIGHTING FACILITIES, INCLUDING STANDARDS, PULL BOXES, AND CONDUITS, 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. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE EXACT POSITION OF SIGNAL STANDARDS PRIOR TO INSTALLATION. THE CONTRACTOR SHALL "POTHOLE" RRFB STANDARD FOUNDATIONS TO LOCATE POSSIBLE CONFLICTING UTILITIES PRIOR TO ORDERING THE SIGNAL STANDARDS.
7. ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD. THE CONTRACTOR SHALL NOTIFY THE CITY, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
8. PULL BOXES SHALL BE PRECAST CONCRETE NO. 6(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.
9. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
10. THE CONTRACTOR SHALL FURNISH AND INSTALL AN AUDIBLE INFORMATION DEVICE (AID) SYSTEM, OR APPROVED EQUAL, IN CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS. THE AID SHALL PROVIDE BOTH AN ARROW BUTTON AND AN AUDIBLE STANDARD MESSAGE OF "WARNING LIGHTS ARE FLASHING" DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE AID SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS.
11. THE EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.



POWER POLE – DETAIL D
NO SCALE

R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P1-1. Geer Road at Calaveras Way RRFB\Geer Road at Calaveras Way RRFB.dwg

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	C. SANCHEZ
CHECKED BY:	J. BENAVIDES
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

USA NORTH 811 Call 811 Before You Dig

SCALE
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REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

JLB TRAFFIC ENGINEERING, INC.
516 WEST SHAW AVENUE, SUITE 103
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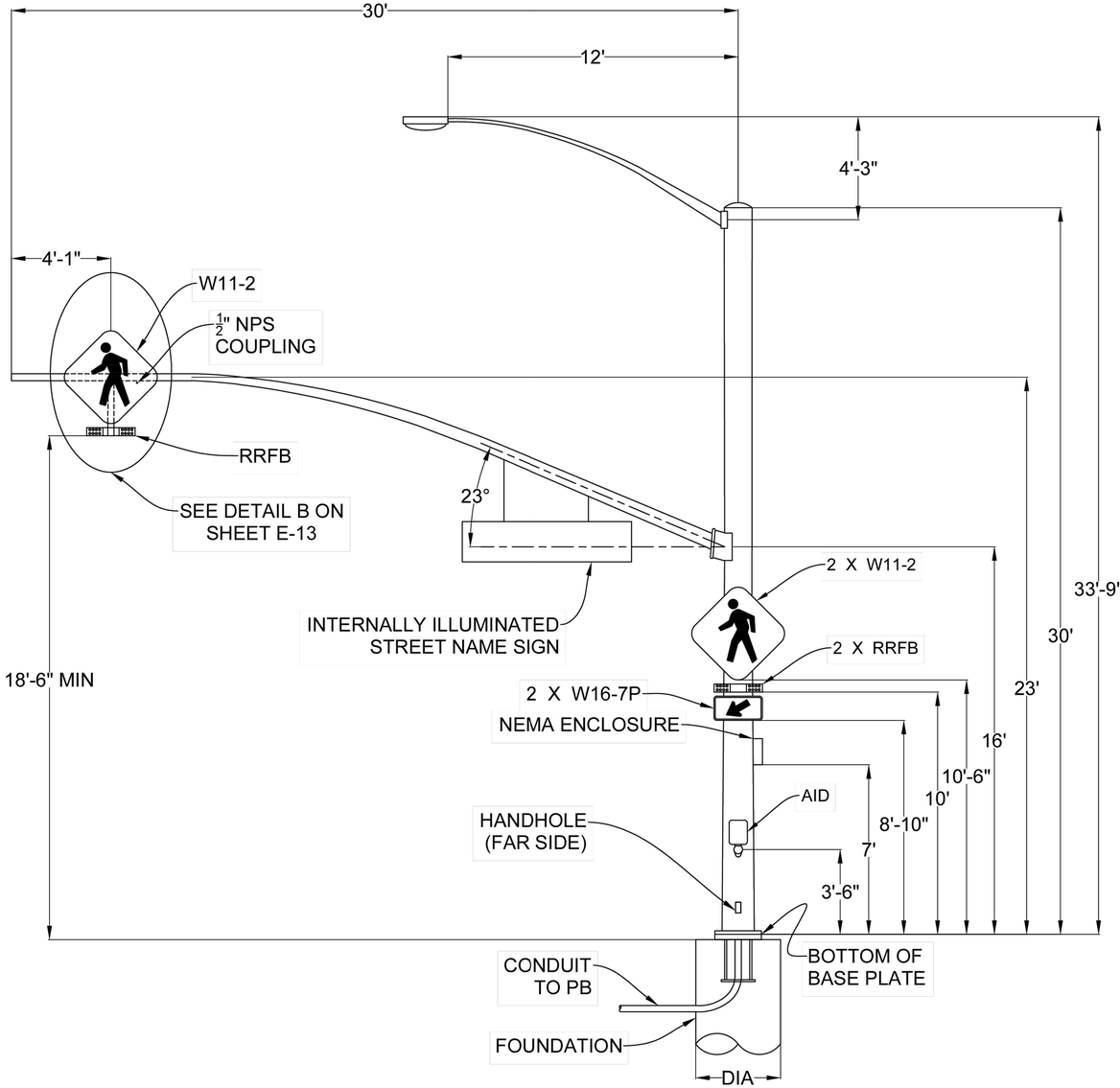
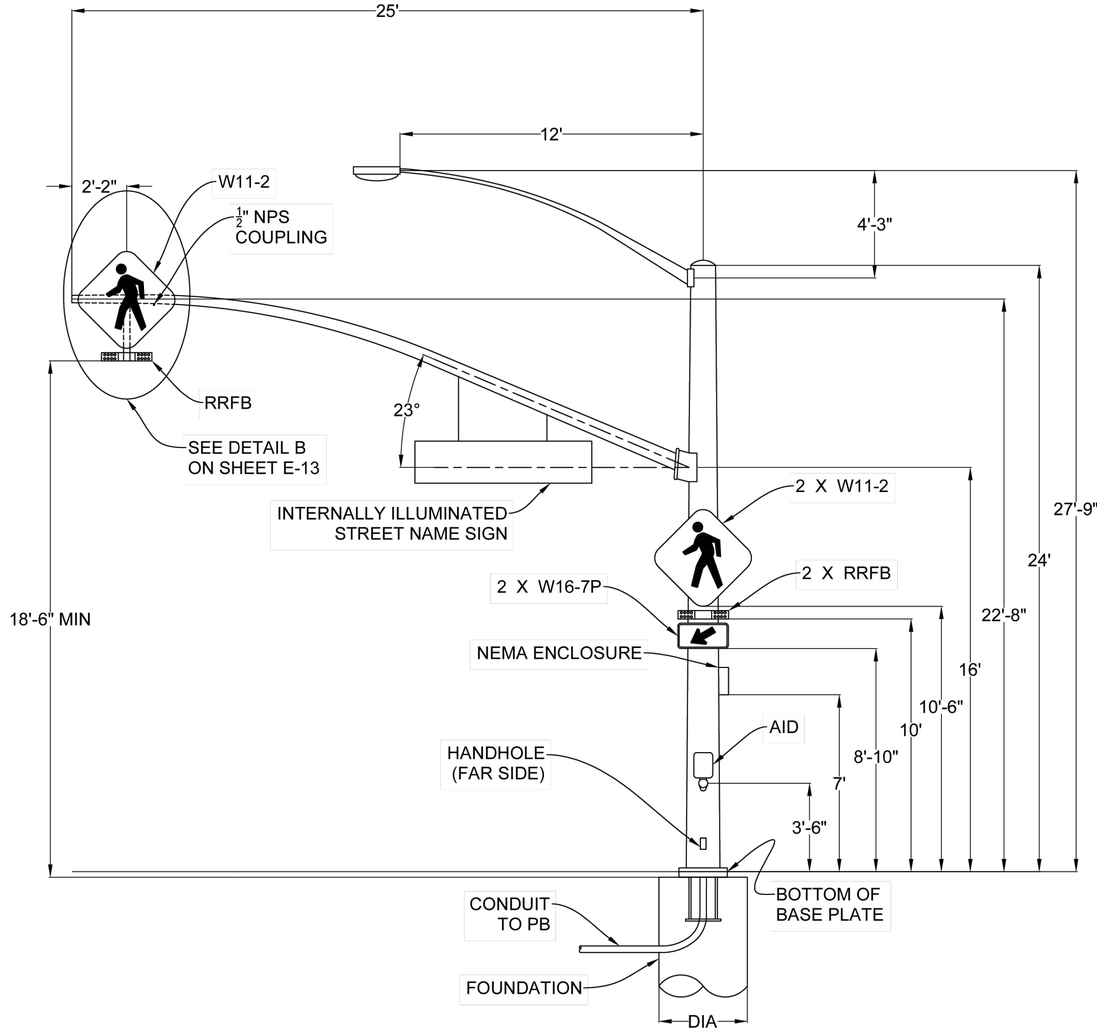
CITY OF TURLOCK
MUNICIPAL SERVICES DEPARTMENT
ROADS PROGRAM DIVISION
156 S. BROADWAY AVE
SUITE 150
(209) 668–5520

CITY OF TURLOCK

RECTANGULAR RAPID FLASHING BEACON SYSTEM
PLAN SHEET
GEER RD & CALAVERAS WAY



POLE A: 19-3-100



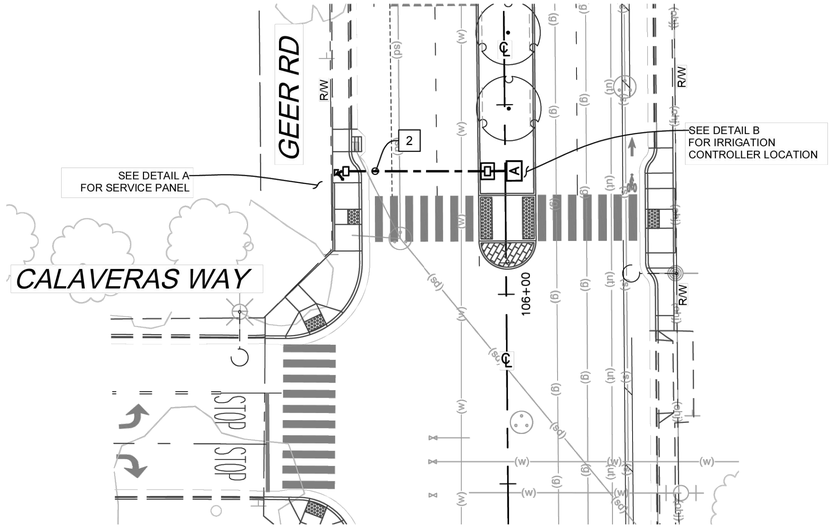
POLE B: 19-3-100

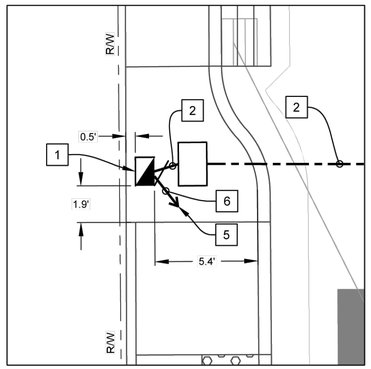
R.C.E. 62971

06/05/2026
DATE

DESIGNED BY: J. BENAVIDES DRAWN BY: C. SANCHEZ CHECKED BY: J. BENAVIDES SCALE: NO SCALE DATE: 06/05/2026 JOB NO.: 058-003	NOTE: ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.	USA NORTH 811 Call 811 Before You Dig	SCALE 20 0 20 40	REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA	JLB TRAFFIC ENGINEERING, INC. 516 WEST SHAW AVENUE, SUITE 103 FRESNO, CALIFORNIA 93704 PHONE: (559) 570-8991 EMAIL: info@JLBtraffic.com	CITY OF TURLOCK MUNICIPAL SERVICES DEPARTMENT ROADS PROGRAM DIVISION 156 S. BROADWAY AVE SUITE 150 (209) 668-5520	CITY OF TURLOCK INC. 1908	**CITY OF TURLOCK** **RECTANGULAR RAPID FLASHING BEACON SYSTEM** **DETAIL SHEET** **GEER RD & CALAVERAS WAY**	Sheet 253 of 256 Sheets **E-14**

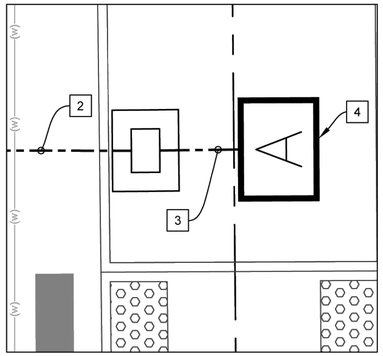
PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\11 RRFBs\P1-1. Geer Road at Calaveras Way RRFB\Geer Road at Calaveras Way RRFB.dwg





SERVICE PANEL LOCATION – DETAIL A

NO SCALE



IRRIGATION CONTROLLER LOCATION – DETAIL B

NO SCALE

IRRIGATION CONTROLLER LEGEND (SHEET IC-1 ONLY):

- [X] IRRIGATION CONTROLLER TO BE INSTALLED PER IRRIGATION PLANS. X IDENTIFIES CONTROLLER. SEE SHEETS IP-1 TO IP-6 FOR FURTHER IRRIGATION DETAILS.
- ▭ FURNISH AND INSTALL PRECAST CONCRETE No. 5(E) PULL BOX UNLESS OTHERWISE NOTED.
- ▣ FURNISH AND INSTALL PRECAST No. 5(E) PULL BOX, UNLESS OTHERWISE NOTED, WITH A 12" CONCRETE COLLAR EQUAL TO THE DEPTH OF THE PULL BOX PLUS EXTENSION.
- — — — INSTALL 1½" CONDUIT SCHEDULE 80 PVC.

CONSTRUCTION NOTES (SHEET IC-1 ONLY):

1. FURNISH AND INSTALL TYPE III-AF SERVICE ENCLOSURE (TESCO 26-100 OR APPROVED EQUAL.). CONTRACTOR SHALL COORDINATE WITH TID FOR THE POINT OF SERVICE CONNECTION AND METER SET.

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
20	120	1	IRRIGATION	YES	———
15	120	1	SPARE	YES	———
15	120	1	SPARE	YES	———
-	-	4	SPACE	YES	———

2. INSTALL 1 ¼" C , 2 #6 (IRRIGATION POWER) AND 1 #8 (BOND).
3. INSTALL ¾" C WITH AN ELECTRICAL JUNCTION BOX, 2 #14 (IRRIGATION POWER) AND 1 #14 (GROUND). COORDINATE WORK WITH IRRIGATION CONTRACTOR.
4. IRRIGATION CONTROLLER TO BE INSTALLED BY IRRIGATION CONTRACTOR. SEE SHEET IP-2 OF THE IRRIGATION PLANS.
5. TO POINT OF SERVICE LOCATION. SEE E-13 (SHEET 252).
6. INSTALL 3" C. COORDINATE WITH TID FOR IT TO INSTALL THE SERVICE CONDUCTORS.

PROJECT NOTES (SHEET IC-1 ONLY):

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE 2024 EDITION OF THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE NATIONAL ELECTRICAL CODE.
2. PULL BOXES SHALL BE PRECAST CONCRETE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.

Jose L Benavides 06/05/2026

R.C.E. 62971 DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\12 Irrigation Plans\Calaveras Way Irrigation.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS
CHECKED BY: C. SANCHEZ
SCALE: 1"=20'
DATE: 06/05/2026
JOB NO.: 058-003

NOTE:
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERCEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

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SCALE
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REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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(209) 668-5520

CITY OF TURLOCK INC. 1908

CITY OF TURLOCK

GEER RD
ELECTRICAL SERVICE FOR IRRIGATION

Sheet 254 of 256 Sheets

IC-1

IRRIGATION CONTROLLER LEGEND (SHEET IC-2 ONLY):

[X] IRRIGATION CONTROLLER TO BE INSTALLED PER IRRIGATION PLANS. X IDENTIFIES CONTROLLER. SEE SHEETS IP-1 TO IP-6 FOR FURTHER IRRIGATION DETAILS.

▭ FURNISH AND INSTALL PRECAST CONCRETE No. 5(E) PULL BOX UNLESS OTHERWISE NOTED.

▣ FURNISH AND INSTALL PRECAST No. 5(E) PULL BOX, UNLESS OTHERWISE NOTED, WITH A 12" CONCRETE COLLAR EQUAL TO THE DEPTH OF THE PULL BOX PLUS EXTENSION.

– – – INSTALL 1½" CONDUIT SCHEDULE 80 PVC.

CONSTRUCTION NOTES (SHEET IC-2 ONLY):

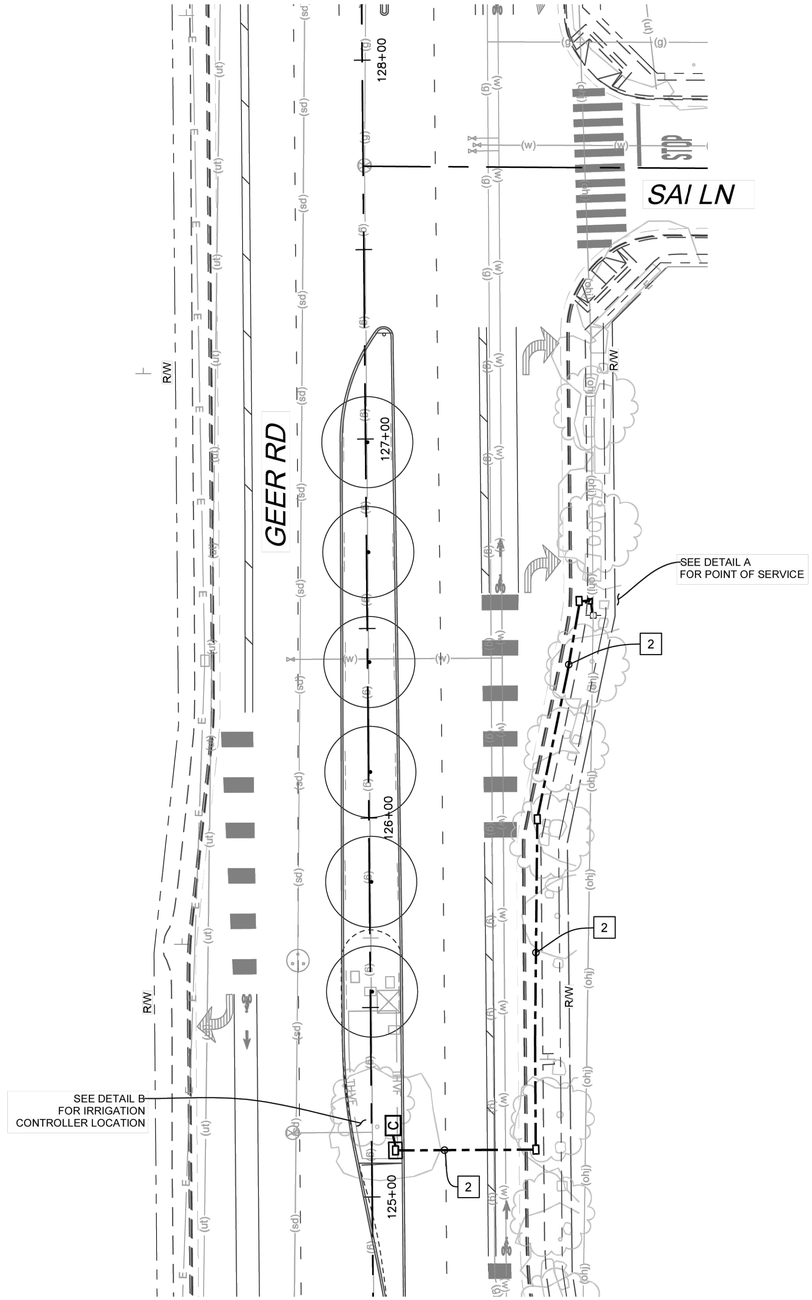
1. FURNISH AND INSTALL TYPE III-AF SERVICE ENCLOSURE (TESCO 26-100 OR APPROVED EQUAL.). CONTRACTOR SHALL COORDINATE WITH TID FOR THE POINT OF SERVICE CONNECTION AND METER SET.

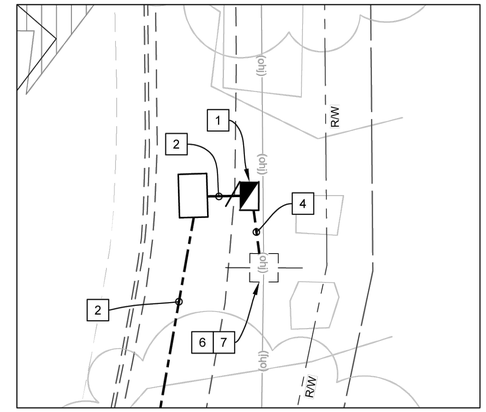
AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
20	120	1	IRRIGATION	YES	———
15	120	1	SPARE	YES	———
15	120	1	SPARE	YES	———
-	-	4	SPACE	YES	———

2. INSTALL 1 ½" C , 2 #6 (IRRIGATION POWER) AND 1 #8 (BOND).
3. INSTALL ¾" C WITH AN ELECTRICAL JUNCTION BOX, 2 #14 (IRRIGATION POWER) AND 1 #14 (GROUND). COORDINATE WORK WITH IRRIGATION CONTRACTOR.
4. INSTALL 3" C. COORDINATE WITH TID FOR IT TO INSTALL THE SERVICE CONDUCTORS.
5. IRRIGATION CONTROLLER TO BE INSTALLED BY IRRIGATION CONTRACTOR. SEE SHEET IP-4 OF THE IRRIGATION PLANS.
6. CONTRACTOR TO INSTALL 3" C SERVICE RISER ON THE EXISTING TID WOOD POLE. CONTRACTOR TO COORDINATE WITH TID FOR TID TO CONNECT THE SERVICE CONDUCTORS TO NEW TRANSFORMER.
7. CONTRACTOR SHALL COORDINATE WITH TID TO INSTALL TRANSFORMER ON THE EXISTING TID WOOD POLE.

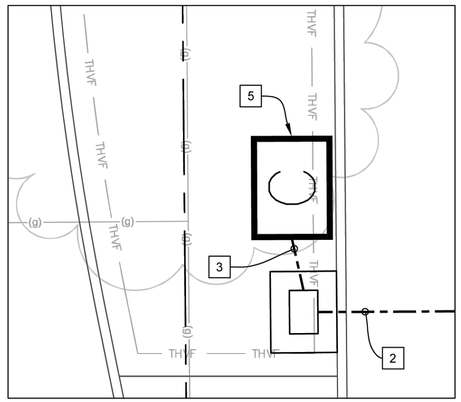
PROJECT NOTES (SHEET IC-2 ONLY):

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE 2024 EDITION OF THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE NATIONAL ELECTRICAL CODE.
2. PULL BOXES SHALL BE PRECAST CONCRETE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. 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. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND SHALL BE KEYED TO THE CITY OF TURLOCK KEY. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT-POUNDS.





TID P.O.S. LOCATION – DETAIL A
NO SCALE



IRRIGATION CONTROLLER LOCATION – DETAIL B
NO SCALE

N

R.C.E. 62971

06/05/2026
DATE

DESIGNED BY:	J. BENAVIDES
DRAWN BY:	J. RIOS
CHECKED BY:	C. SANCHEZ
SCALE:	1"=20'
DATE:	06/05/2026
JOB NO.:	058-003

NOTE:
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REGISTERED PROFESSIONAL ENGINEER JOSE LUIS BENAVIDES No.C 62971 Exp:06/30/26 CIVIL STATE OF CALIFORNIA

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CITY OF TURLOCK INC. 1908

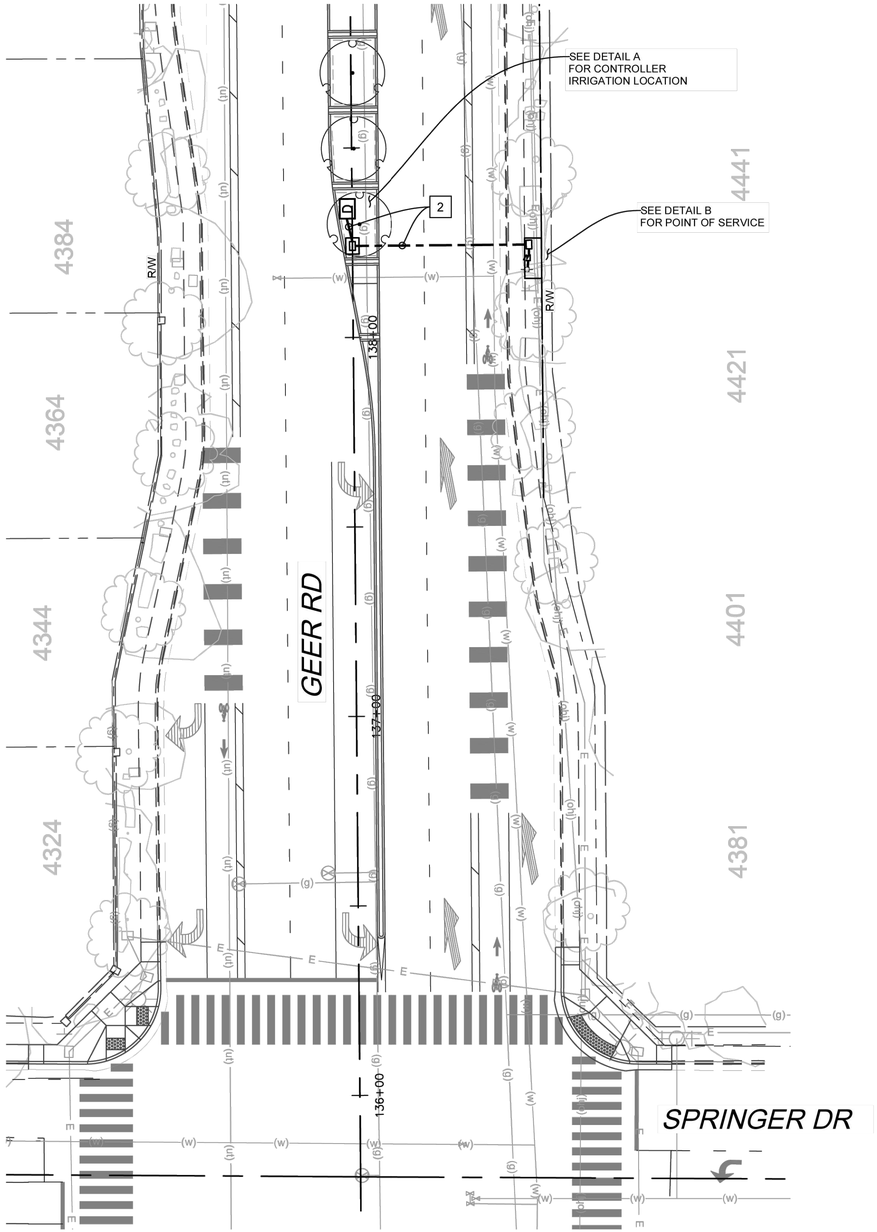
CITY OF TURLOCK

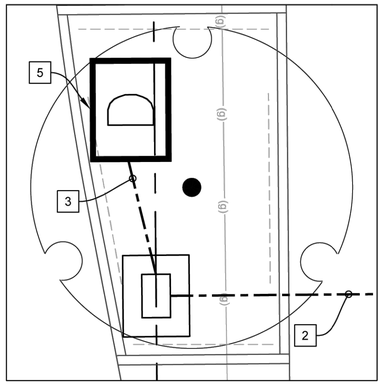
GEER RD
ELECTRICAL SERVICE FOR IRRIGATION

Sheet 255 of 256 Sheets

IC-2

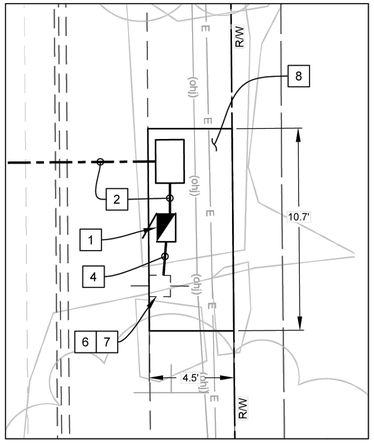
PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\12 Irrigation Plans\Christoffersen Pkwy Irrigation.dwg





IRRIGATION CONTROLLER LOCATION – DETAIL A

NO SCALE



TID P.O.S. LOCATION – DETAIL B

NO SCALE

IRRIGATION CONTROLLER LEGEND (SHEET IC-3 ONLY):

- [X] IRRIGATION CONTROLLER TO BE INSTALLED PER IRRIGATION PLANS. X IDENTIFIES CONTROLLER. SEE SHEETS IP-1 TO IP-6 FOR FURTHER IRRIGATION DETAILS.
- [ ] FURNISH AND INSTALL PRECAST CONCRETE No. 5(E) PULL BOX UNLESS OTHERWISE NOTED.
- [ ] FURNISH AND INSTALL PRECAST No. 5(E) PULL BOX, UNLESS OTHERWISE NOTED, WITH A 12" CONCRETE COLLAR EQUAL TO THE DEPTH OF THE PULL BOX PLUS EXTENSION.
- INSTALL 1½" CONDUIT SCHEDULE 80 PVC.

CONSTRUCTION NOTES (SHEET IC-3 ONLY):

1. FURNISH AND INSTALL TYPE III-AF SERVICE ENCLOSURE (TESCO 26-100 OR APPROVED EQUAL.). CONTRACTOR SHALL COORDINATE WITH TID FOR THE POINT OF SERVICE CONNECTION AND METER SET.

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN BREAKER	YES	———
20	120	1	IRRIGATION	YES	———
15	120	1	SPARE	YES	———
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2. INSTALL 1 ¼" C , 2 #6 (IRRIGATION POWER) AND 1 #8 (BOND).
3. INSTALL ¾" C WITH AN ELECTRICAL JUNCTION BOX, 2 #14 (IRRIGATION POWER) AND 1 #14 (GROUND). COORDINATE WORK WITH IRRIGATION CONTRACTOR.
4. INSTALL 3" C . COORDINATE WITH TID FOR IT TO INSTALL THE SERVICE CONDUCTORS.
5. IRRIGATION CONTROLLER TO BE INSTALLED BY IRRIGATION CONTRACTOR. SEE SHEET IP-5 OF THE IRRIGATION PLANS.
6. CONTRACTOR SHALL COORDINATE WITH TID TO INSTALL TRANSFORMER ON THE EXISTING TID WOOD POLE. CONTRACTOR TO COORDINATE WITH TID FOR TID TO CONNECT SERVICE CONDUCTORS TO THE TRANSFORMER.
7. CONTRACTOR TO INSTALL 3" C SERVICE RISER ON THE EXISTING TID WOOD POLE.
8. INSTALL 4.5' X 10.7' X 3.5" PCC PAD.

PROJECT NOTES (SHEET IC-3 ONLY):

1. ALL WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THE 2024 EDITION OF THE STATE OF CALIFORNIA "STANDARD SPECIFICATIONS", ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, THE NATIONAL ELECTRICAL CODE.
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R.C.E. 62971

06/05/2026
DATE

PATH: Z:\01 Projects\058 Turlock\058-003 Geer Road Signals\12 Irrigation Plans\Springer Dr Irrigation.dwg

DESIGNED BY: J. BENAVIDES
DRAWN BY: J. RIOS
CHECKED BY: C. SANCHEZ
SCALE: 1"=20'
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Sheet 256 of 256 Sheets

IC-3