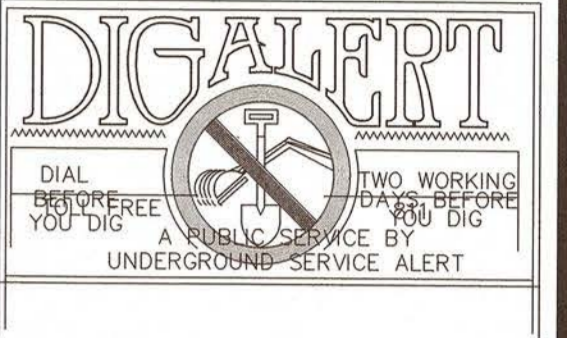




COUNTY OF IMPERIAL

HEBER AVENUE STREET WIDENING AND SIDEWALK IMPROVEMENT COUNTY PROJECT No. 6515



GENERAL NOTES

STREET IMPROVEMENT GENERAL NOTES

- COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.
- THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS-GUTTER AND PAVING.
- THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER THAT IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- UTILITIES COORDINATION

NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.

1. APPROPRIATE WATER/SEWER UTILITY	TO BE DETERMINED
2. IMPERIAL IRRIGATION DISTRICT (POWER)	(760) 339-9280
3. IMPERIAL IRRIGATION DISTRICT (WATER)	(760) 339-9263
4. PACIFIC BELL	(800) 422-4133
5. THE GAS CO.	811
6. CATV	(800) 312-6512

EXISTING UNDERGROUND UTILITIES

BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.

CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

ACCURATE VERIFICATIONS AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, PACIFIC BELL, TELEPHONE COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811 (formerly 1-800-422-4133).

- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- NOT USED
- NOT USED

- NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
- NOT USED
- CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER OF WORK. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE UNLESS OTHERWISE SHOWN.

- THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (442) 265-1818. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEY'RE CONTACT NUMBER 811 (formally (800) 422-4133). ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.
- NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.
- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT CONDITIONS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.
- UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 2006". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY. CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812".
- CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD, PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE.
- NOT USED
- EXISTING STORM DRAIN PIPES/CULVERTS WHETHER TO BE CONNECTED TO, EXTENDED, ADJUSTED, DRAINED TO, OR JUST IN PROJECT VICINITY SHALL BE REPAIRED AND/OR CLEANED TO MAKE THEM FUNCTIONAL AND ACCEPTABLE AS DIRECTED BY THE PUBLIC WORKS DIRECTOR.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER.
- ANY EXISTING SURVEY MONUMENTS OR COUNTY RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTLEMENT OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND TO THE SATISFACTION OF THE COUNTY SURVEYOR/DIRECTOR OF PUBLIC WORKS. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.
- NOT USED
- DUST SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ALL IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) FUGITIVE DUST CONTROL RULES AND REGULATIONS AND SHALL COMPLY WITH THEIR PERMITTING REQUIREMENTS, IF APPLICABLE.

GRADING PLAN GENERAL NOTES

- NOT USED
- FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
- IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.

- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SLITTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
- SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITEE WILL NOTIFY THE DIRECTOR OF THE PLANNING DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING TO DO SO.
- THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF WORK AND APPROVED BY COUNTY PUBLIC WORKS INSPECTOR. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE.
- ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
- ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
- DURING ROUGH GRADING OPERATIONS AND PRIOR TO THE CONSTRUCTION OF ANY PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES.
- DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE APPROVED PM10 PLAN. APPROVAL SHALL BE BY IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT.
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
- THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
- A 5' WIDE BY 1' HIGH BERM, OR EQUIVALENT, SHALL BE CONSTRUCTED ALONG THE TOP OF ALL FILL SLOPES OVER 5' IN VERTICAL HEIGHT. ALL SLOPES LESS THAN OR EQUAL TO 5' SHALL HAVE A BERM TO PREVENT DRAINAGE FROM ERODING SAME.
- NOT USED
- NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
- ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT CONTIGUOUS PROPERTIES DURING GRADING OPERATIONS.
- NOT USED
- A SUITABLY QUALIFIED AND REGISTERED PROFESSIONAL SHALL SUBMIT A WRITTEN CERTIFICATION TO THE PUBLIC WORKS DEPARTMENT THAT THE FINAL GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS FOR ALL GRADING DESIGNATED AS "ENGINEERED GRADING". AS-BUILT PLANS SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.

SOILS ENGINEER'S CERTIFICATION

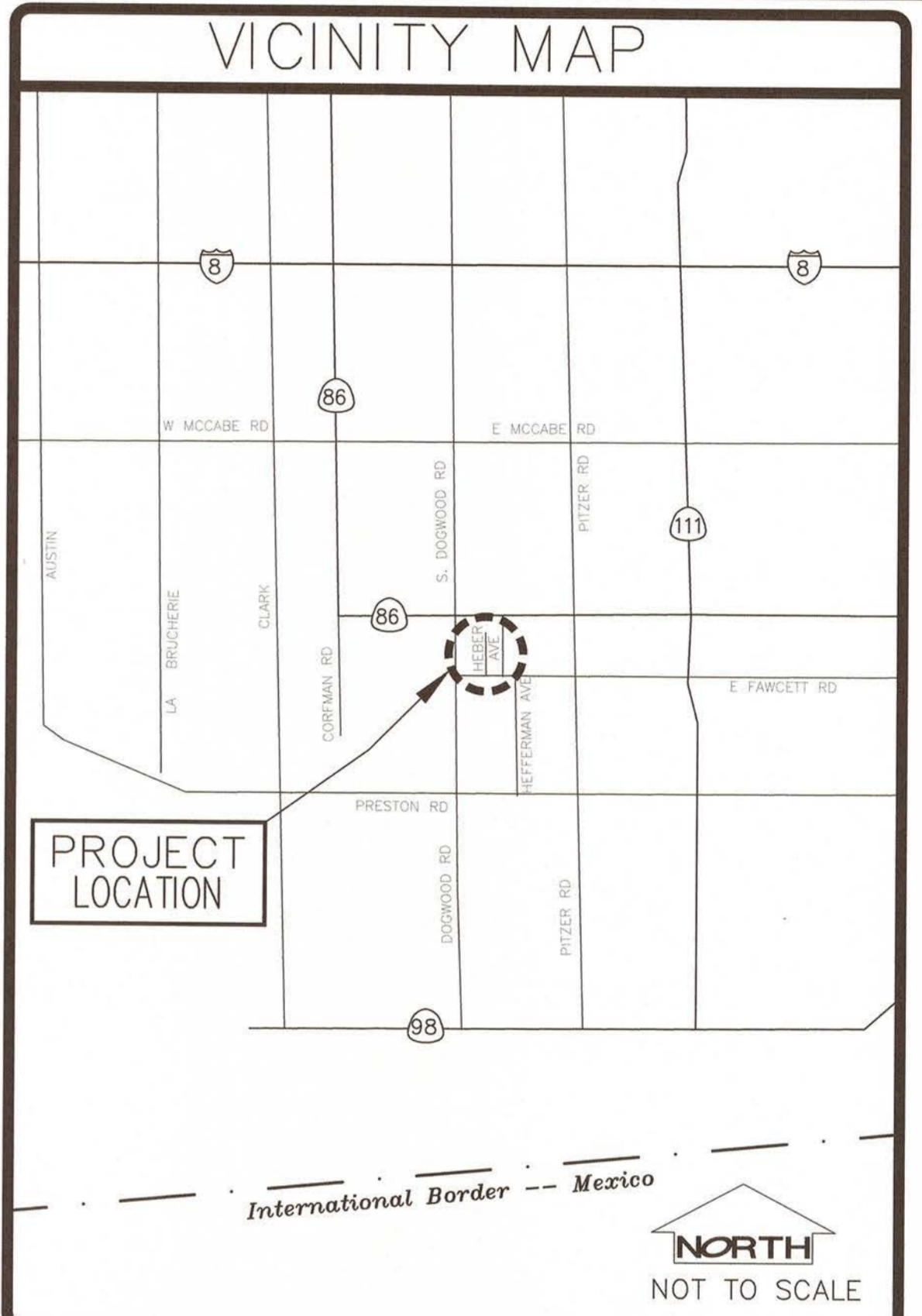
A GEOTECHNICAL REPORT FOR THIS PROJECT WAS PERFORMED BY UNDERSIGNED OR UNDER MY SUPERVISION.

THE REPORT TITLED:
LIMITED GEOTECHNICAL STUDY REPORT,
HEBER AVENUE SIDEWALK IMPROVEMENTS
HEBER, IMPERIAL COUNTY, CA.
DATED: AUGUST 14, 2020.

THESE PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT.

Carl Francisco Henderson
CARL FRANCISCO HENDERSON
LICENSE No. GE 2886
EXPIRATION DATE 06/30/2023

7/19/2021 DATE



EARTHWORK	
CUT VOLUME:	MAXIMUM SLOPE: N/A
FILL VOLUME:	
NET VOLUME:	

ABBREVIATIONS			
AGG.	AGGREGATE	MIN	MINIMUM
APPROX.	APPROXIMATE	N	NORTH
Asph.	ASPHALT	N/O	NORTH OF
B.M.	BENCHMARK	N.T.S.	NOT TO SCALE
CL	CENTERLINE	PROP.	PROPOSED
CLR OR CL	CLEARANCE	REINF.	REINFORCEMENT
CONC.	CONCRETE	R/W OR ROW	RIGHT-OF-WAY
E	EAST	RD	ROAD
E/O	EAST OF	STA.	STATION
E.P.	EDGE OF PAVEMENT	S	SOUTH
EL. OR ELEV.	ELEVATION	S/O	SOUTH OF
EX. OR EXIST.	EXISTING	T.P.	TOP OF PAVEMENT
F.L.	FLOW LINE	THK.	THICK
F.S.	FINISH SURFACE	TYP	TYPICAL
L.F.	LINEAL FEET	W	WEST
MAX	MAXIMUM	W/O	WEST OF

TOPOGRAPHICAL SURVEY CONDUCTED BY:
MAP AND DIGITAL DATA PREPARED FOR:
SURVEY GROUND CONTROL PROVIDED BY:
SURVEY VERTICAL CONTROL PROVIDED BY:

SYMBOLS		
ITEM NO.	ITEM	SYMBOL
1	STREET R/W LINE	—
2	STREET C/L	—
3	CABLE TV	CABLE
4	DRAIN (FIELD)	D
5	EX. EDGE OF ASPH.	▬
6	PROP. EDGE OF ASPH.	▬
7	EX. ASPHALT CONC.	▬
8	PROP. ASPHALT CONC.	▬
9	EDGE OF DIRT	▬
10	GUARD RAIL	▬
11	ROAD STRIPING	▬
12	CONTOURS - MAJOR	980
13	CONTOURS - MINOR	N-17
14	CONTROL	961.44
15	SPOT ELEVATION	967.06±
16	BENCHMARK (SEE DESCRIPTION)	◆
17	BORROW PIT ELEVATIONS	◆
18	PROPOSED BORROW PIT	◆
19	LIMIT OF RECONSTRUCTION	▬
20	CROSS GUTTER	▬

SHEET INDEX	
1	TITLE SHEET
2-3	SURVEY CONTROL TOPOGRAPHIC
4-5	DEMOLITION PLAN
6-7	CIVIL DETAILS
8	FENCE REPLACEMENT DETAILS
9-12	PLAN & PROFILE
13-14	DRIVEWAY AND PEDESTRIAN RAMP DETAILS
15-18	EROSION CONTROL
19	SIGNING AND STRIPING
20-25	TRAFFIC CONTROL
26	FUNDING ACKNOWLEDGEMENT SIGN

BENCHMARK	
PROJECT BENCHMARK:	◆
BENCHMARK:	SEE SHEET 2, SURVEY CONTROL TOPOGRAPHIC No. 1

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
SAN-DIEGO, CA 92128
NVS, INC.
15092 AVENUE OF SCIENCE, SUITE 200
SAN-DIEGO, CA 92128

3/17/21 DATE

DARAB BOUZARJOMEHRI, P.E.
R.C.E.: 54870
EXP. DATE: 6/30/22

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NVS

54870 R.C.E. No.
6/30/22 REG. EXP.

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:

John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER

62028 R.C.E. No.
9/30/21 REG. EXP.

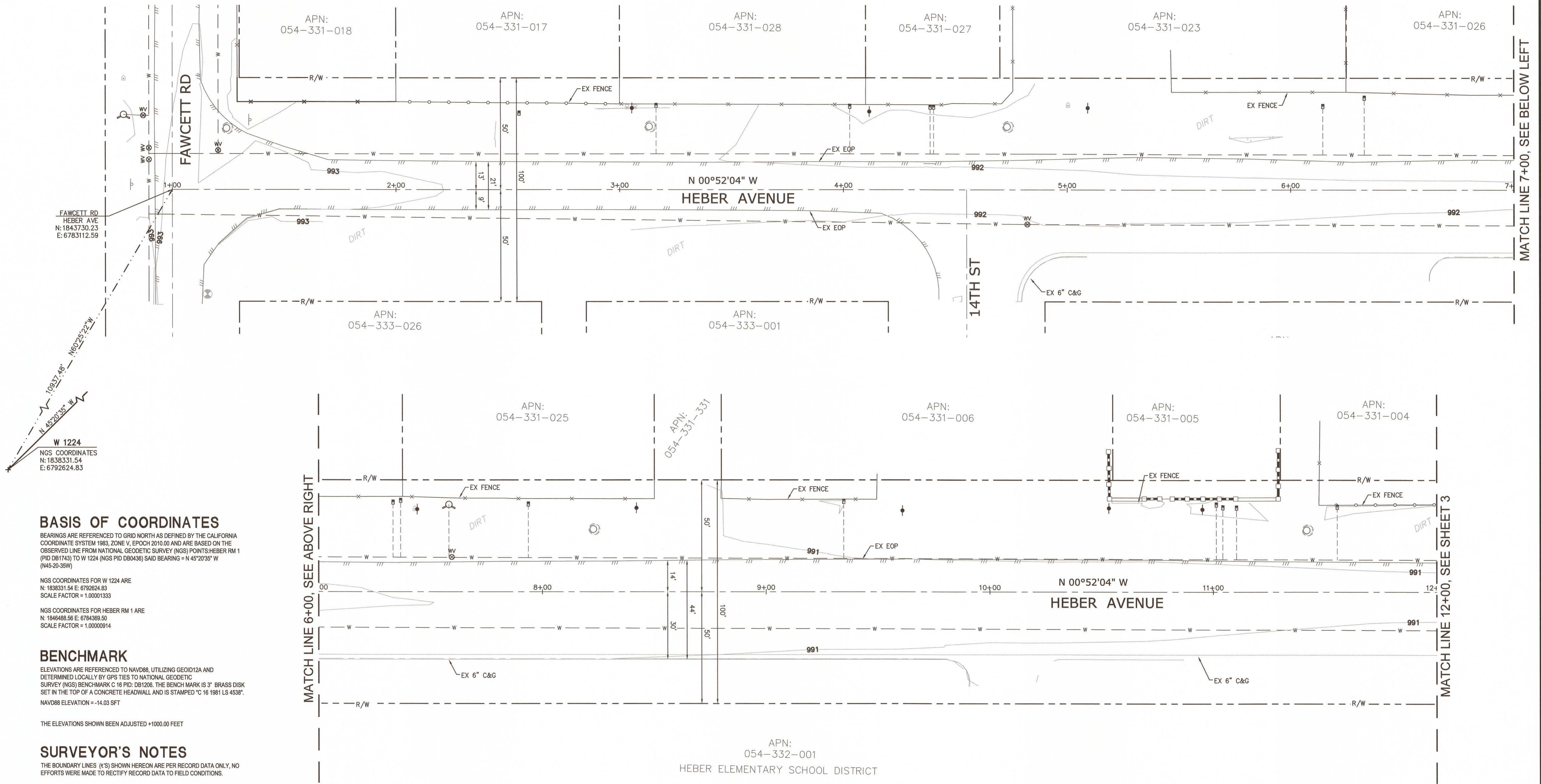
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021

DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

TITLE SHEET		
REFERENCE	SHEET 1 OF 26	
R -985		



FAWCETT RD
HEBER AVE
N: 1843730.23
E: 6783112.59

W 1224
NGS COORDINATES
N: 1838331.54
E: 6792624.83

N 45°20'35\" W
10937.48'
N 62°28'52\" W

BASIS OF COORDINATES

BEARINGS ARE REFERENCED TO GRID NORTH AS DEFINED BY THE CALIFORNIA COORDINATE SYSTEM 1983, ZONE V, EPOCH 2010.00 AND ARE BASED ON THE OBSERVED LINE FROM NATIONAL GEODETIC SURVEY (NGS) POINTS: HEBER RM 1 (PID DB1743) TO W 1224 (NGS PID DB0436) SAID BEARING = N 45°20'35\" W (N45-20-35W)

NGS COORDINATES FOR W 1224 ARE
N: 1838331.54 E: 6792624.83
SCALE FACTOR = 1.00001333

NGS COORDINATES FOR HEBER RM 1 ARE
N: 1846488.66 E: 6784369.50
SCALE FACTOR = 1.00000914

BENCHMARK

ELEVATIONS ARE REFERENCED TO NAVD88, UTILIZING GEOID12A AND DETERMINED LOCALLY BY GPS TIES TO NATIONAL GEODETIC SURVEY (NGS) BENCHMARK C 16 PID: DB1206. THE BENCHMARK IS 3\" BRASS DISK SET IN THE TOP OF A CONCRETE HEADWALL AND IS STAMPED \"C 16 1981 LS 4538\". NAVD88 ELEVATION = -14.03 SFT

THE ELEVATIONS SHOWN BEEN ADJUSTED +1000.00 FEET

SURVEYOR'S NOTES

THE BOUNDARY LINES (L'S) SHOWN HEREON ARE PER RECORD DATA ONLY, NO EFFORTS WERE MADE TO RECTIFY RECORD DATA TO FIELD CONDITIONS.

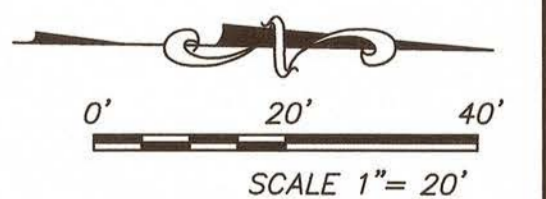
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MATCH LINE 12+00, SEE SHEET 3

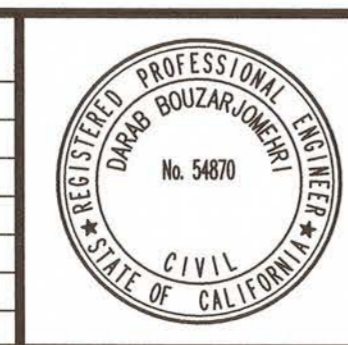
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NV5

15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE

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R.C.E. No.
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COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/12/21
DATE

62028
R.C.E. No.
9/30/21
REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

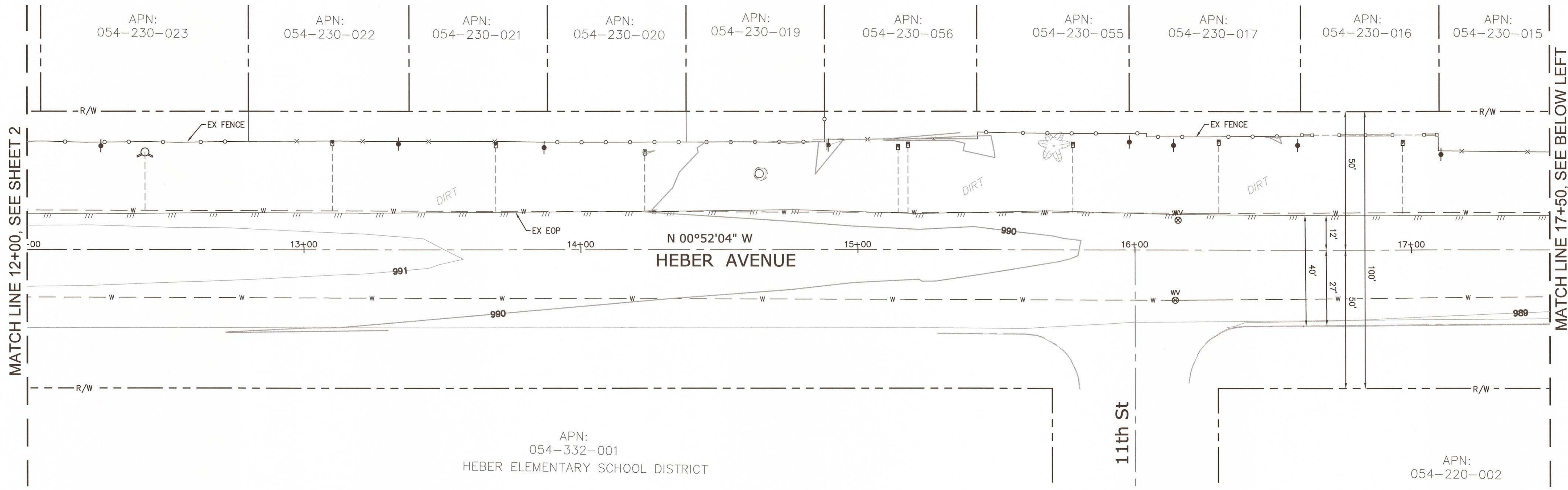
HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

SURVEY CONTROL
TOPOGRAPHIC NO. 1

REFERENCE
R-985

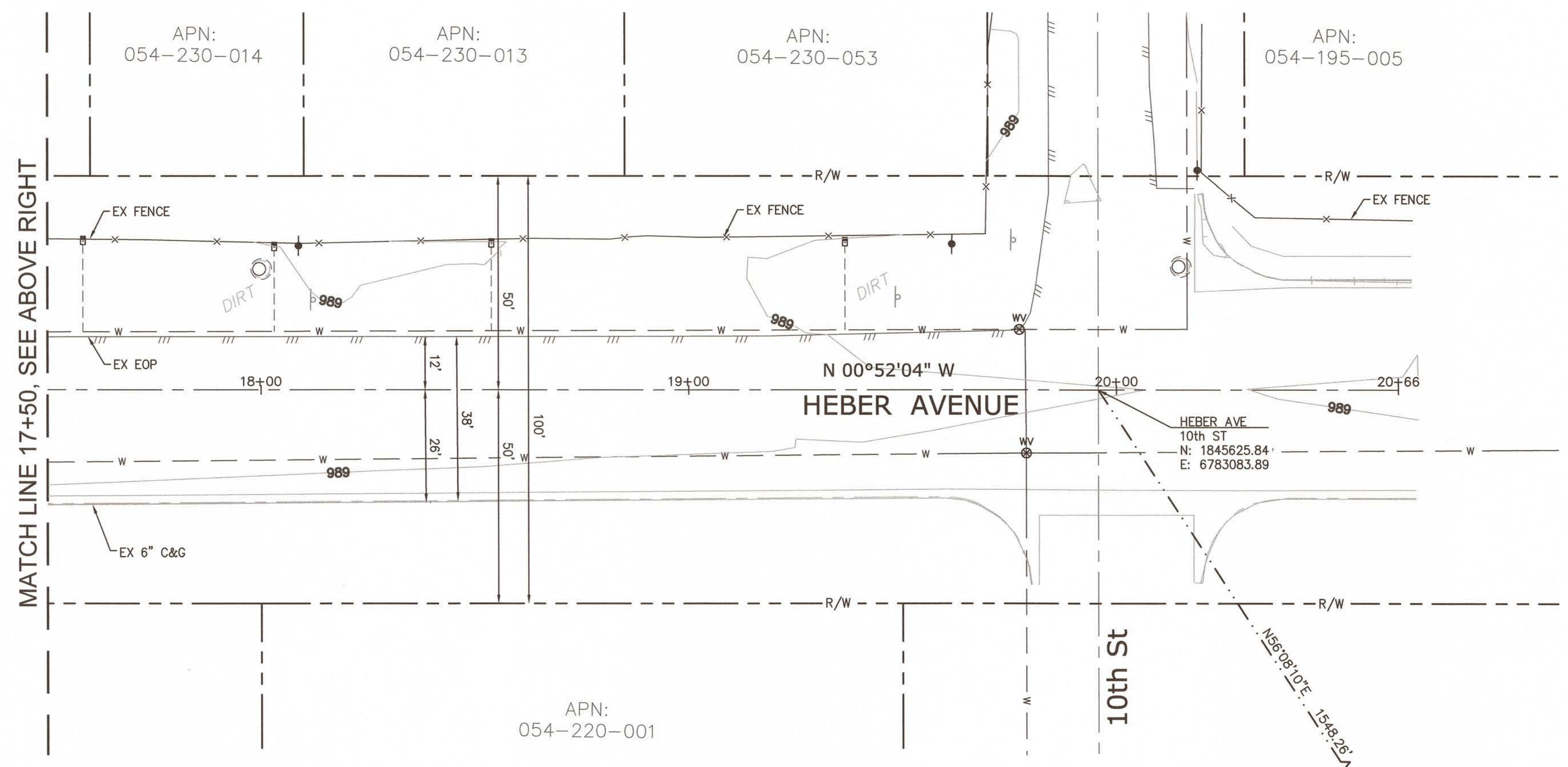
SHEET 2 OF 26

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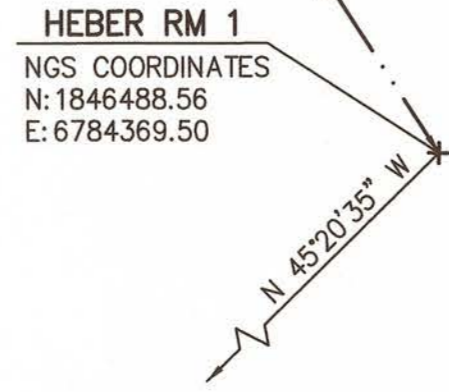


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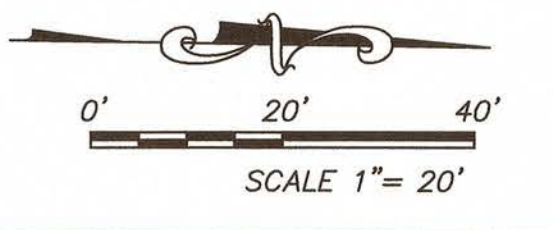
MATCH LINE 17+50, SEE BELOW LEFT



MATCH LINE 17+50, SEE ABOVE RIGHT



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 SAN DIEGO, CA 92128
 P: 858.385.0500 WWW.NV5.COM



REVISION	DATE	COMMENTS



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 DARAB BOUZARJOMEHRI, P.E.
 NV5
 3/17/2021
 DATE



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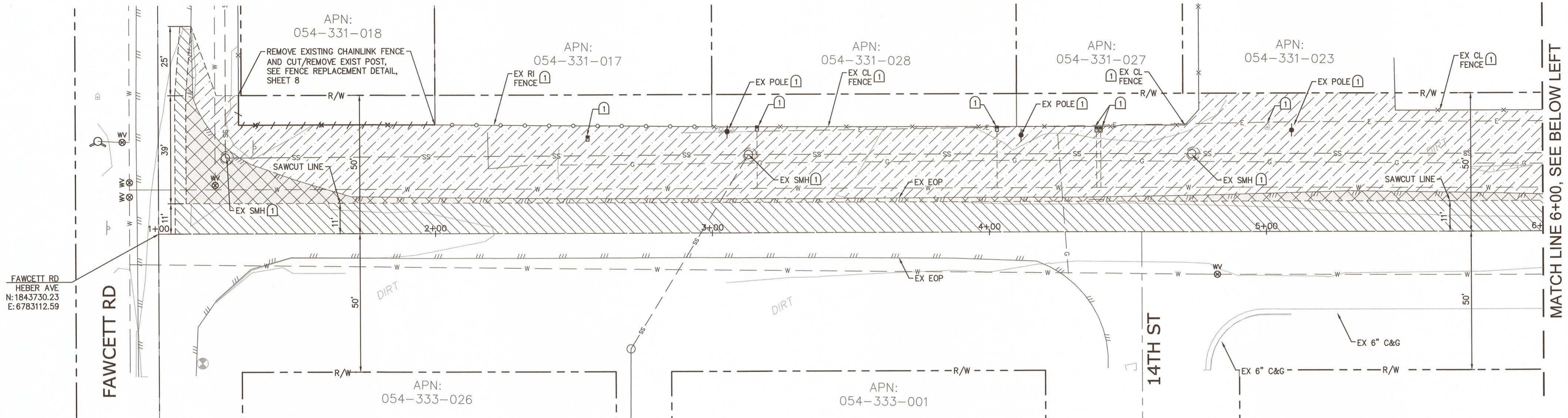
COUNTY OF IMPERIAL
 PUBLIC WORKS DEPARTMENT
 EL CENTRO, CALIFORNIA

DATE 9/2/2021
 DRAWN SD
 SCALE AS SHOWN
 CHECKED DB

**HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515**

**SURVEY CONTROL
 TOPOGRAPHIC NO. 2**
 REFERENCE R-985
 SHEET 3 OF 26

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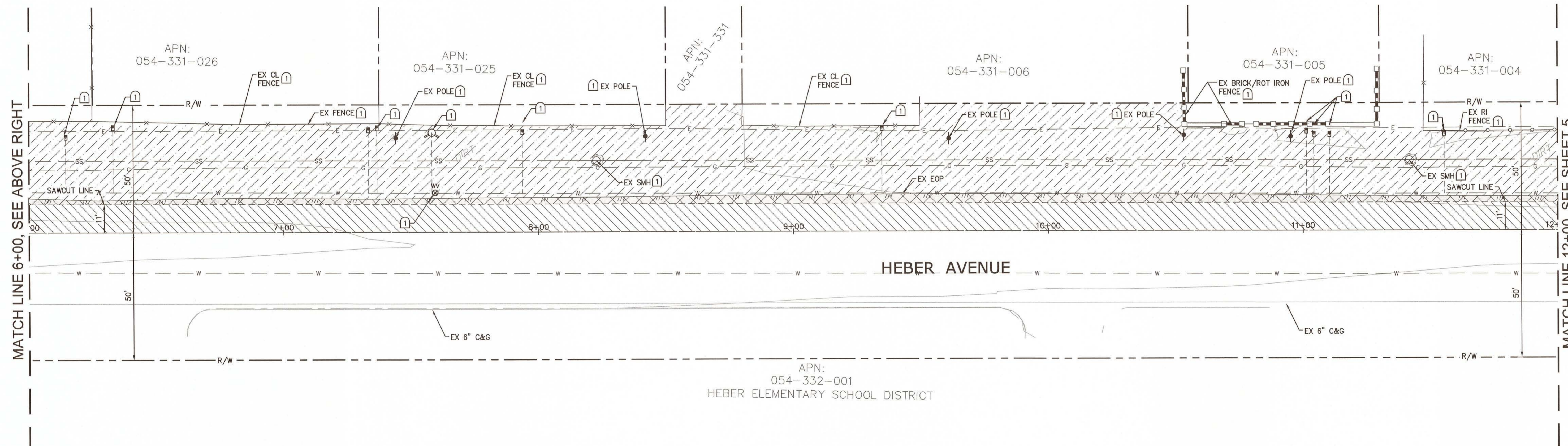


DEMOLITION NOTES

1 PROTECT IN PLACE

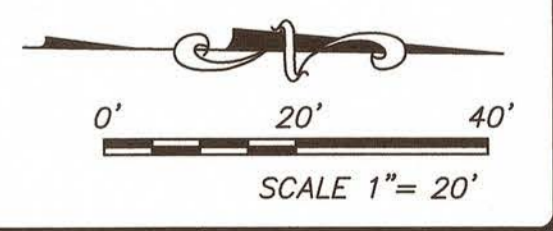
LEGEND

- CLEAR AND GRUB
- SAWCUT AND REMOVE EXIST AC PAVEMENT, WIDTH VARIES
- EXIST AC PAVEMENT MILLING, DEPTH VARIES

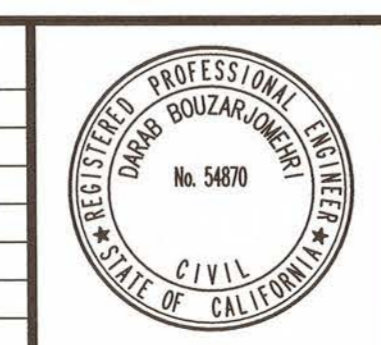


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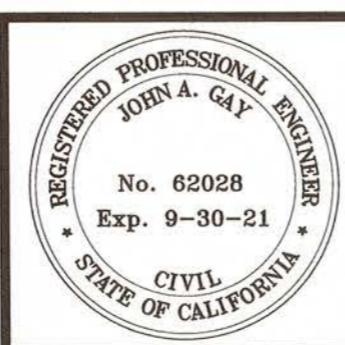
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3/17/2021
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9/30/21
DATE

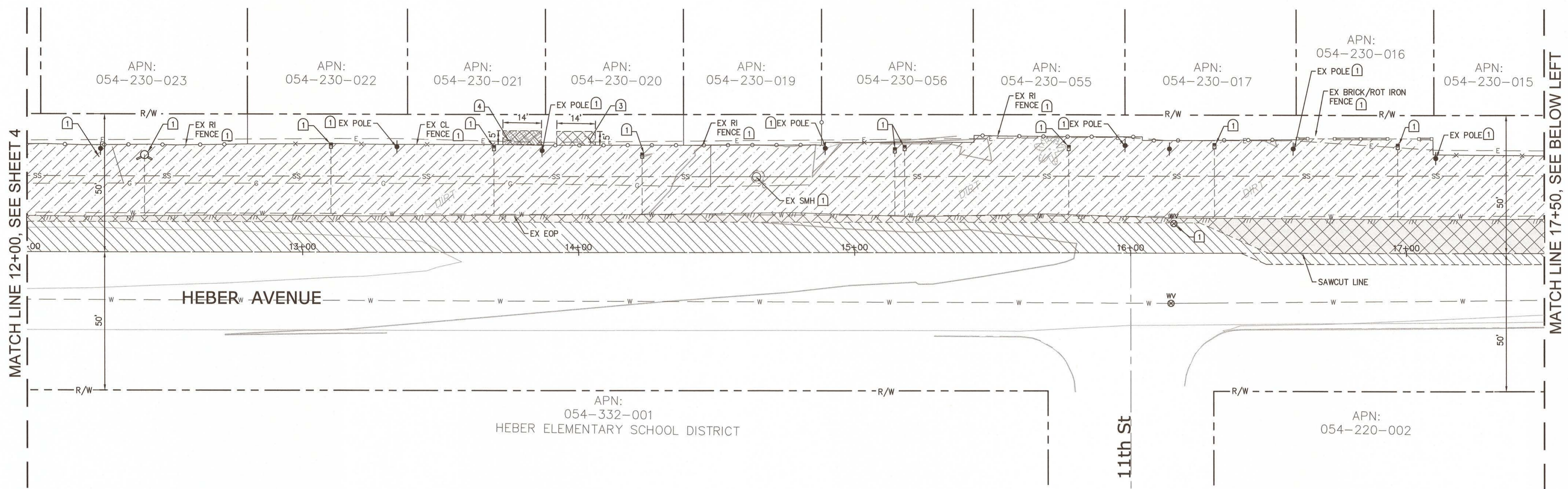
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

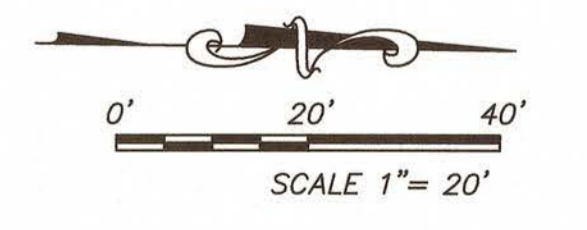
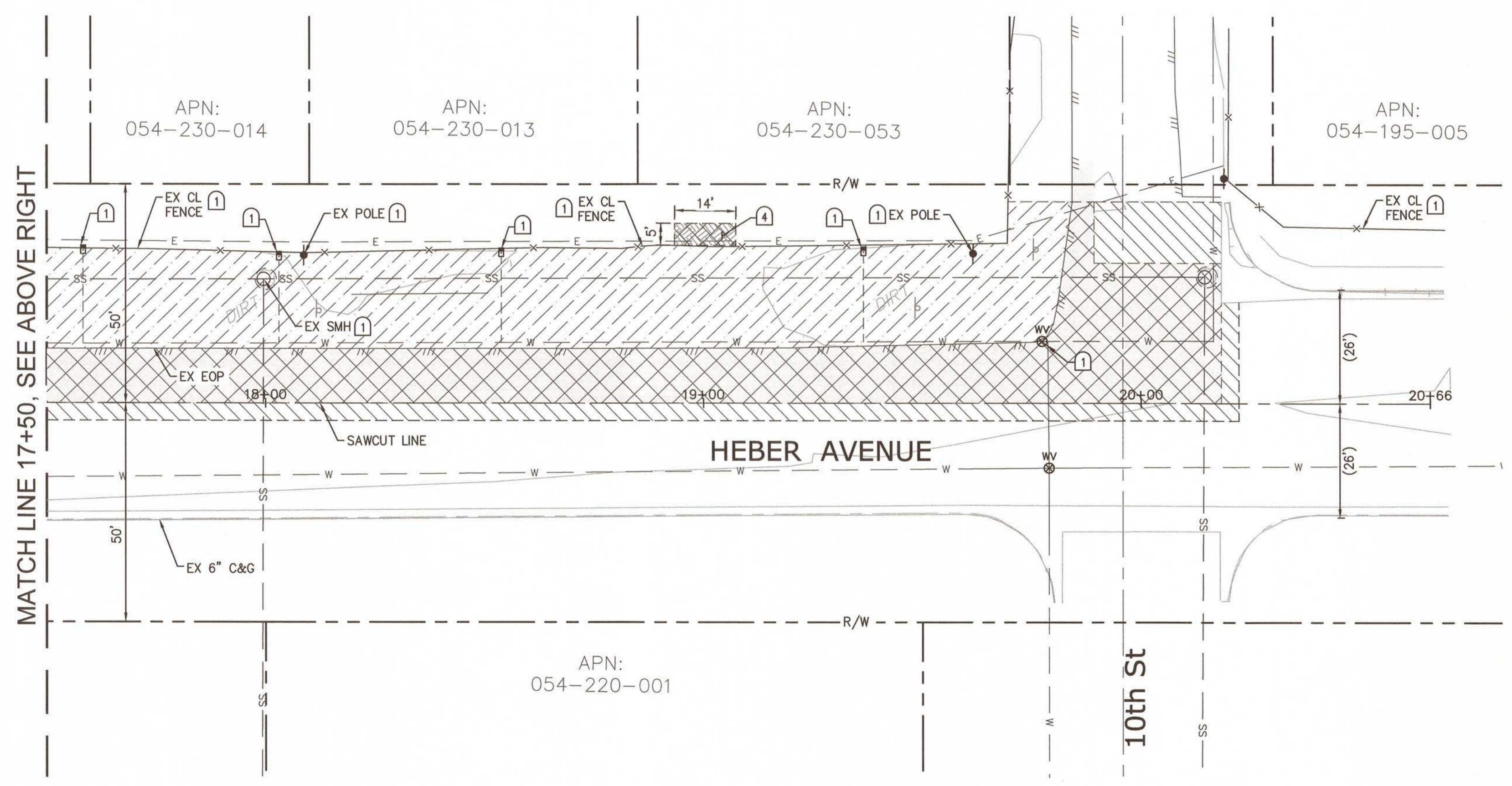
DEMOLITION NO. 1
REFERENCE R-985
SHEET 4 OF 26

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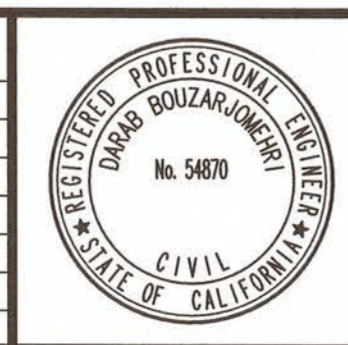
- DEMOLITION NOTES**
- 1 PROTECT IN PLACE
 - 3 SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE DRIVEWAY, SEE "5' ENCROACHMENT DRIVEWAY CONNECTION DETAIL" ON SHEET 7
 - 4 REMOVE PORTION OF EXISTING DIRT DRIVEWAY, SEE "5' ENCROACHMENT DRIVEWAY CONNECTION DETAIL" ON SHEET 7

- LEGEND**
- CLEAR AND GRUB
 - SAWCUT AND REMOVE EXIST AC PAVEMENT, WIDTH VARIES
 - COLD PLANE AC PVMT
 - SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE DRIVEWAY
 - REMOVE PORTION OF EXISTING DIRT DRIVEWAY, DEPTH = 2'-0"

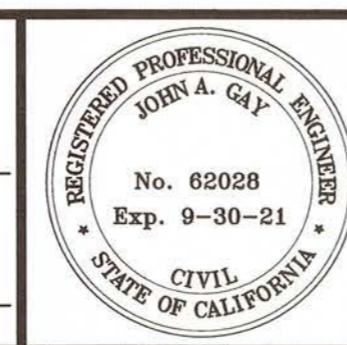


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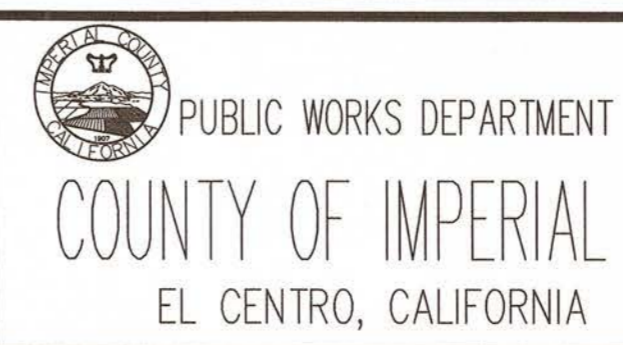
REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
 DARAB BOUZARJOMEHRI, P.E.
 NV5
 3/17/2021 DATE
 54870 R.C.E. No.
 6/30/22 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
John A. Gay
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/30/21 REG. EXP.

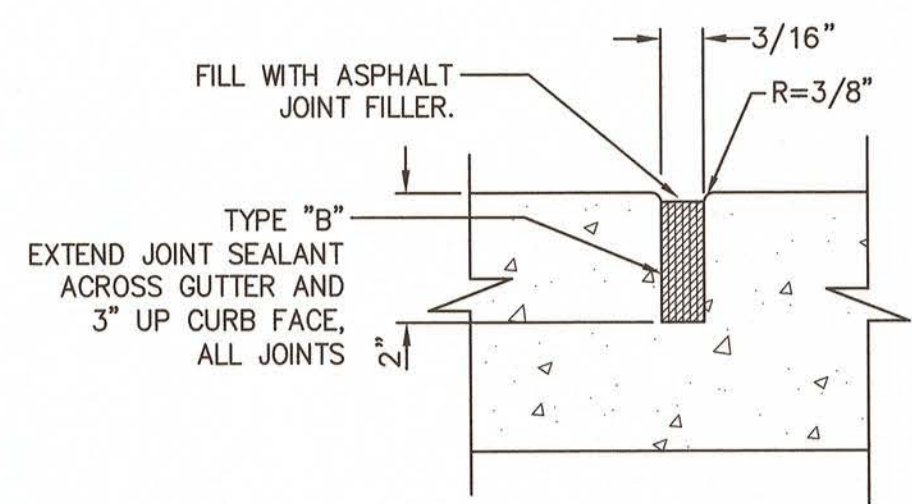


DATE 9/2/2021
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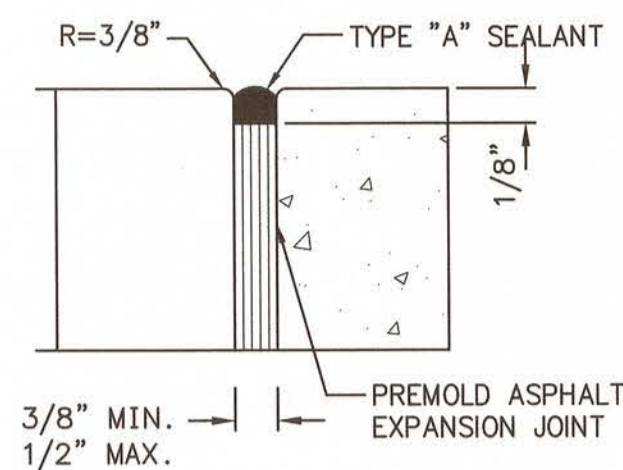
HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

DEMOLITION NO. 2	
REFERENCE R-985	SHEET 5 OF 26

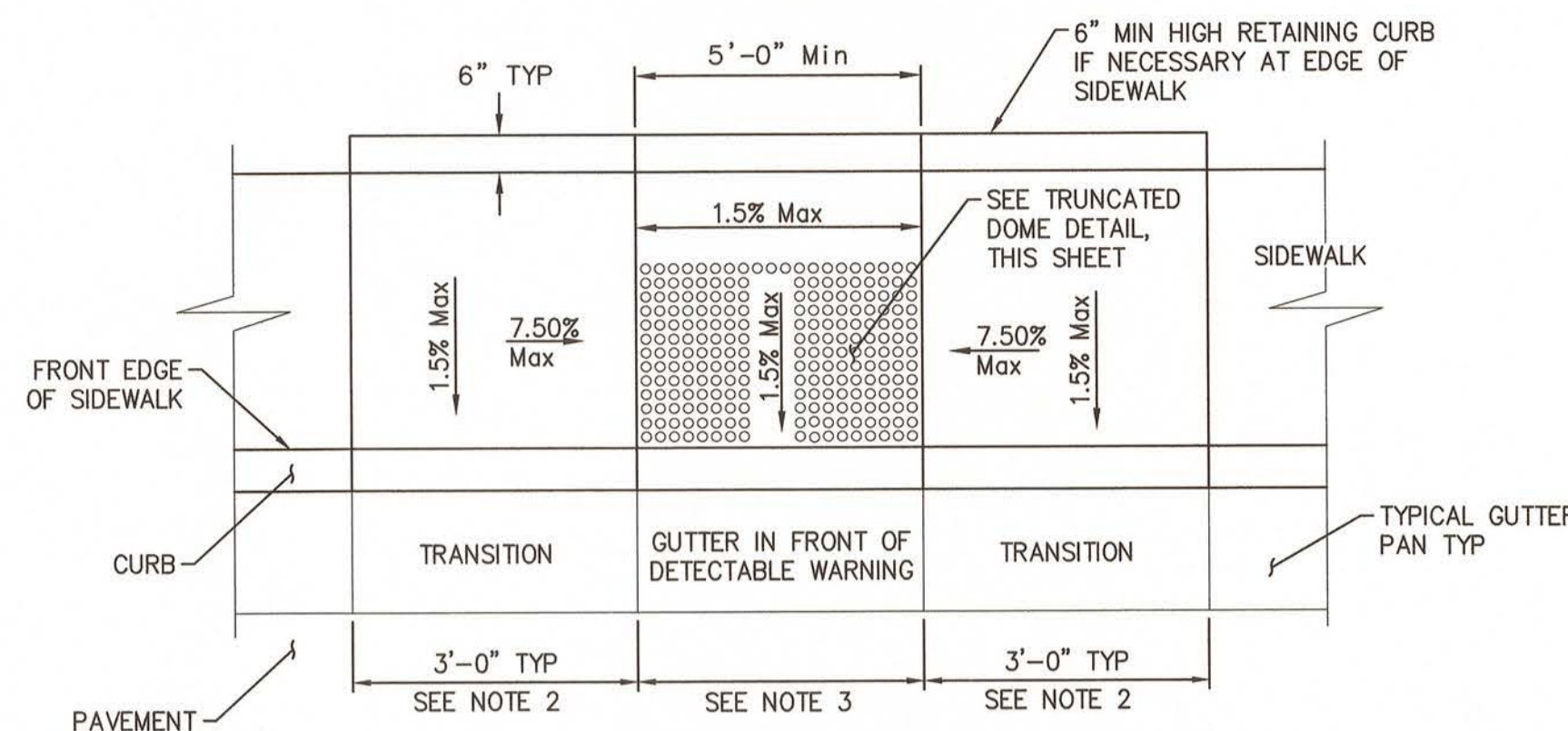
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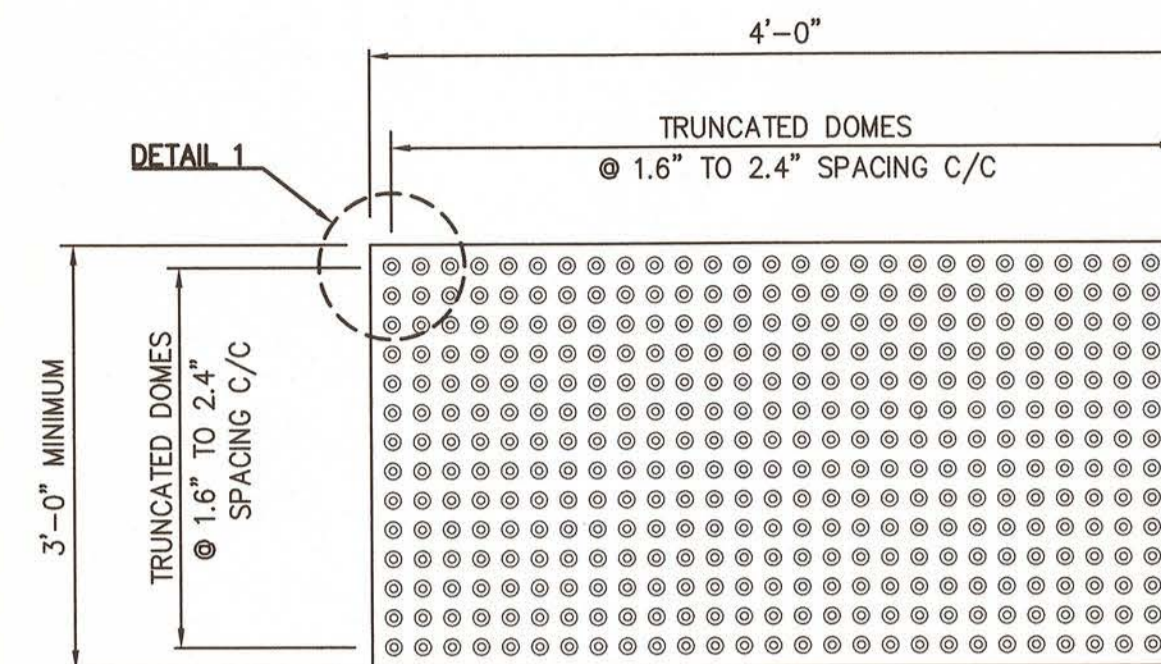
WEAKENED PLANE JOINT
AT 15'-0" O.C. (TYP.)



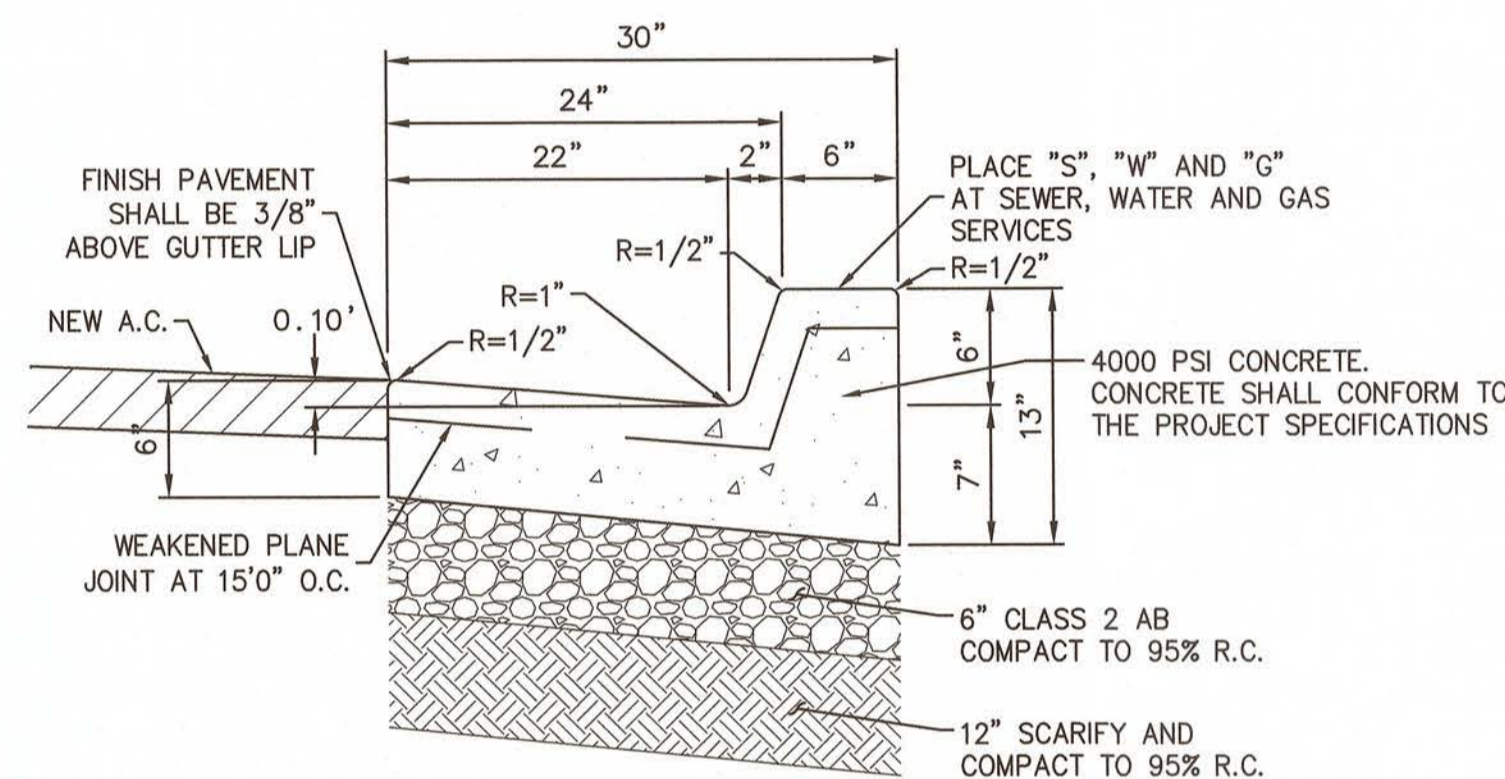
EXPANSION JOINT
AT 45'-0" O.C. (TYP.)



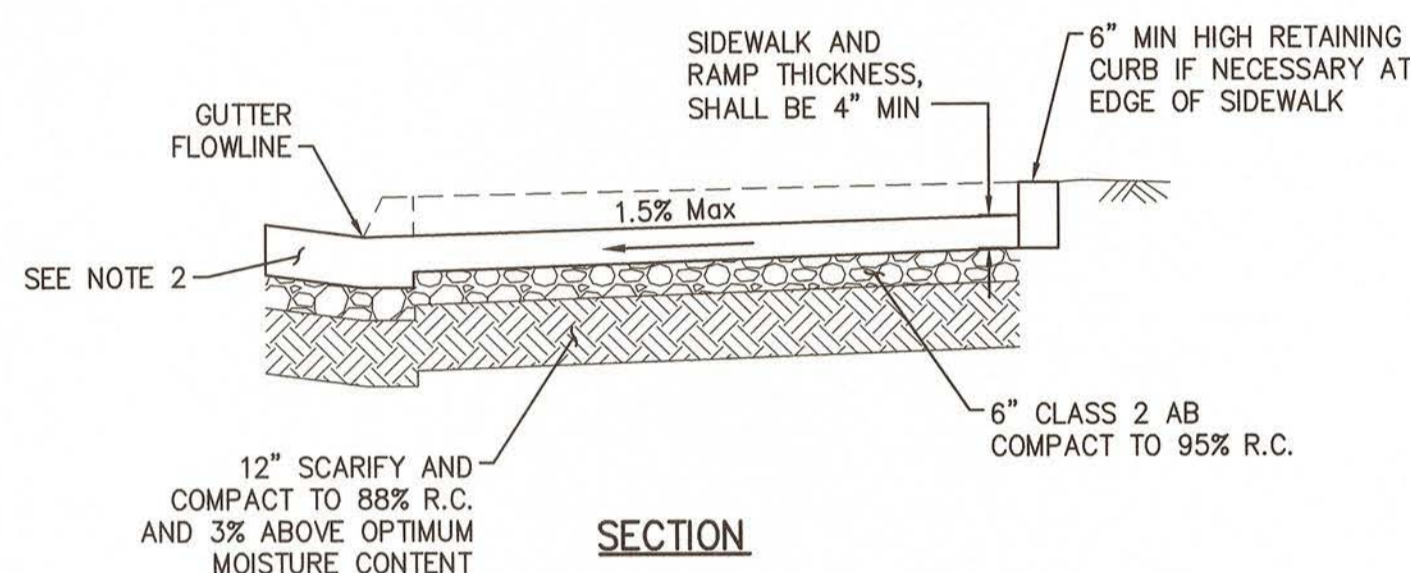
PLAN



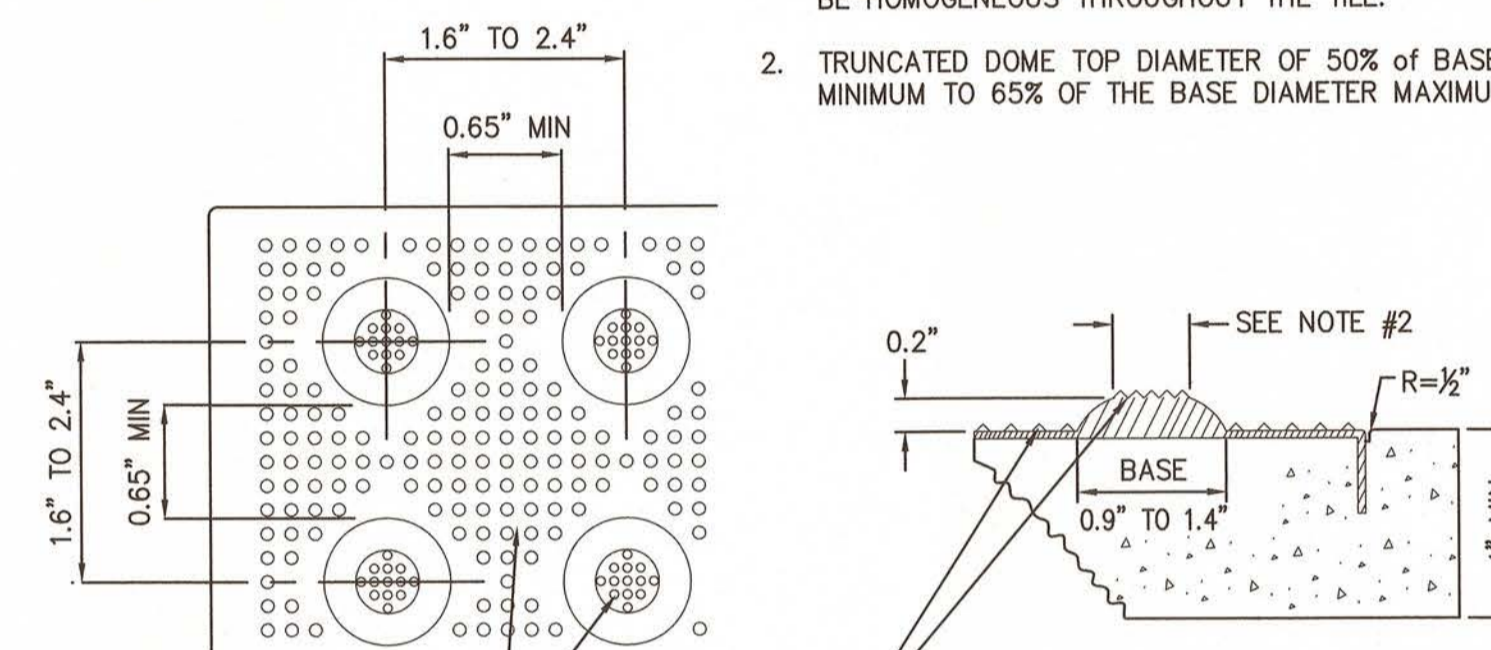
PLAN - TILE



SECTION



SECTION



DETAIL 1

NOTES:

1. DETECTABLE WARNING SURFACE COLOR SHALL BE YELLOW CONFORMING TO FEDERAL STANDARDS 595B TABLE IV, COLOR NO. 33538, OR AS SPECIFIED BY THE COUNTY. COLOR SHALL BE HOMOGENEOUS THROUGHOUT THE TILE.
2. TRUNCATED DOME TOP DIAMETER OF 50% OF BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM.

TRUNCATED DOMES

NO SCALE

- NOTES:**
1. EXPANSION JOINTS TO BE INSTALLED AT ALL B.C.'S, E.C.'S CURB RETURNS AND STRUCTURES IN ADDITION TO 45' O.C.
 2. CURB AND GUTTER SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E
 3. WIDTH OF STANDARD STREET SECTIONS SHOWN ON PLANS ARE TO CURB LINES UNLESS OTHERWISE INDICATED.
 4. CURING COMPOUND SHALL BE SPRAYED UNIFORMLY ON EXPOSED SURFACES. HYDRO-CURE CLEAR CC-309-1W, OR APPROVED EQUAL.
 5. WHEN CURB AND GUTTER IS PLACED BY AN EXTRUSION MACHINE MINOR FINISHING SHALL BE DONE TO PROVIDE AN ACCEPTABLE FINISH AND THE WEAKENED PLANE JOINT MAY BE SAWCUT.
 6. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
 7. ALL EXPOSED SURFACES TO HAVE A SMOOTH TROWEL FINISH. DRY SACK FINISH WILL NOT BE ALLOWED.
 8. THE CURB EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN ±0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FEET SECTION. THE HORIZONTAL CURB EDGES SHALL NOT VARY MORE THAN 1/4" INCH IN ANY GIVEN 100 FOOT SECTION.

NOTES:

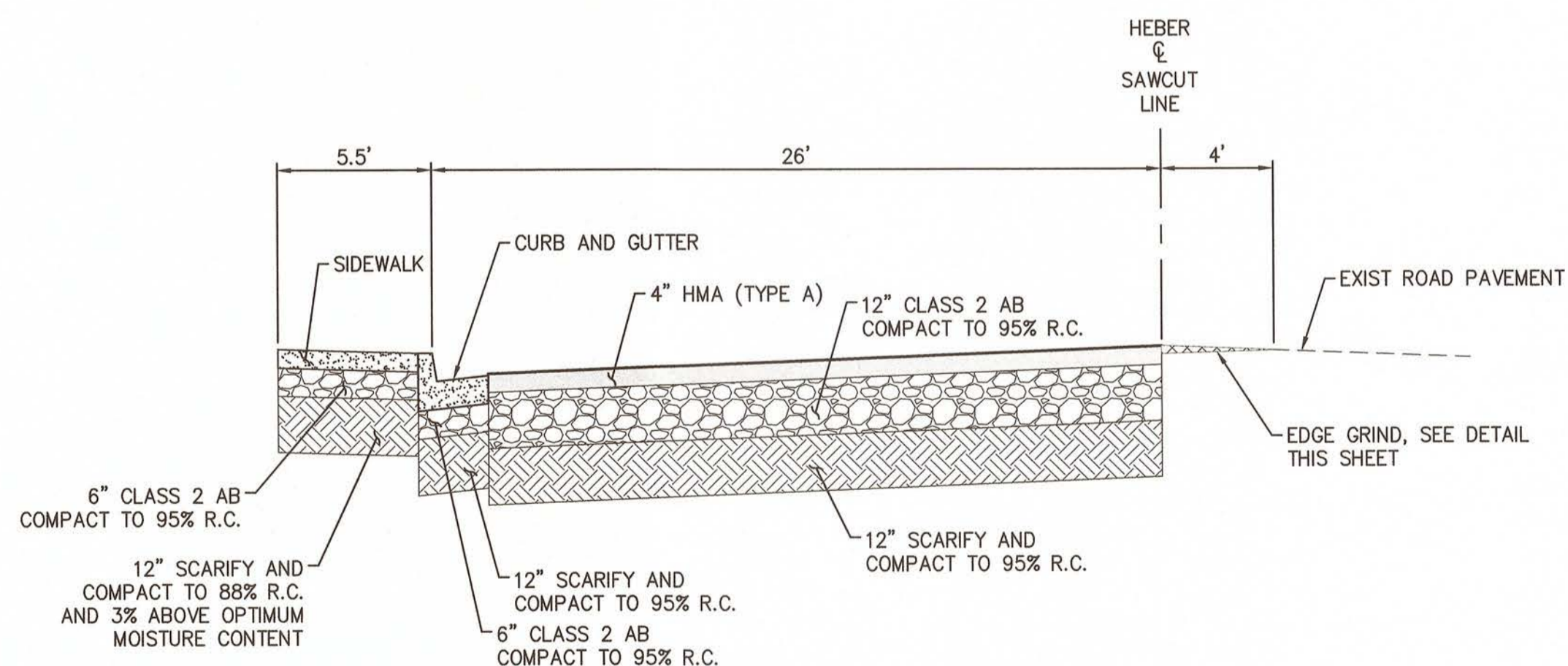
1. THE DETECTABLE WARNING SURFACE WILL BE A RECTANGLE AS SHOWN AT BACK OF CURB, UNLESS MODIFIED IN THE PROJECT PLANS. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF RAMP.
2. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1V:20H (5.0%). GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'-0" OF WIDTH.
3. TRANSITION GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'-0" OF WIDTH TO MATCH TYPICAL GUTTER PAN SLOPE.

PEDESTRIAN CURB RAMP

NO SCALE

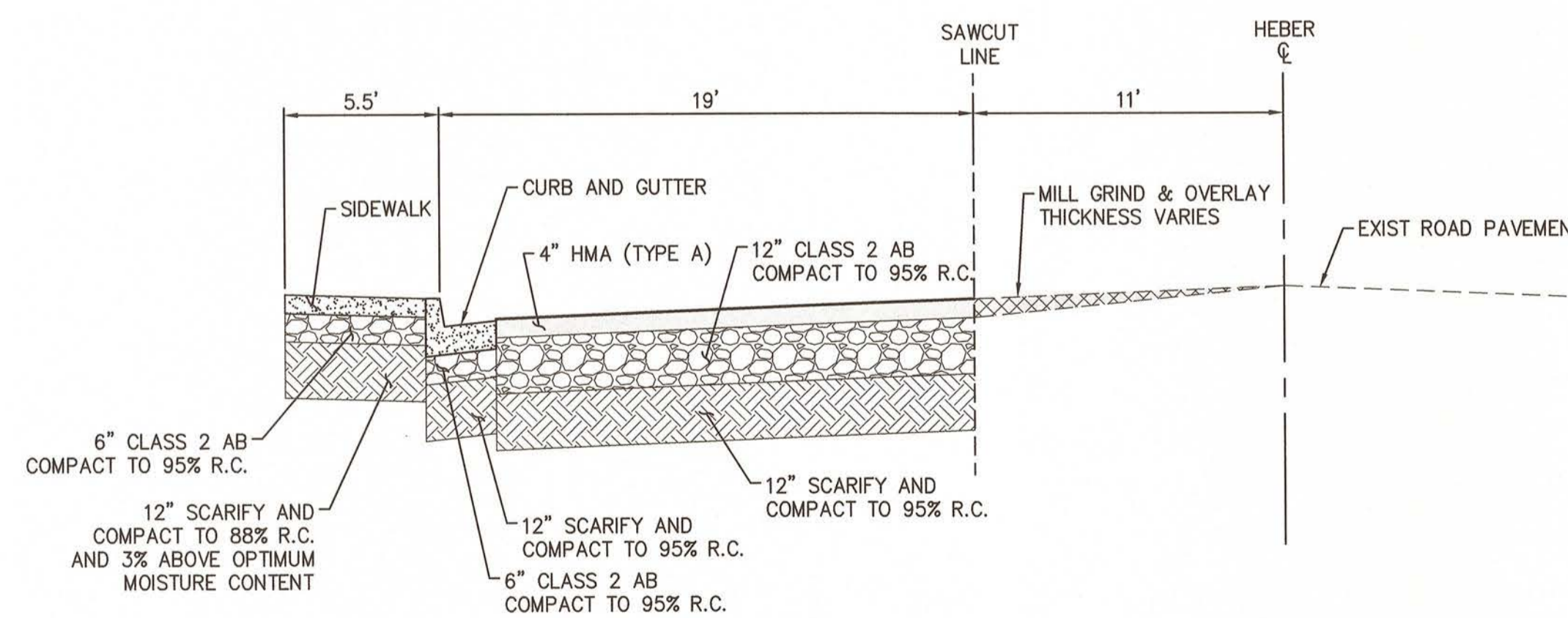
CURB AND GUTTER DETAIL

NO SCALE



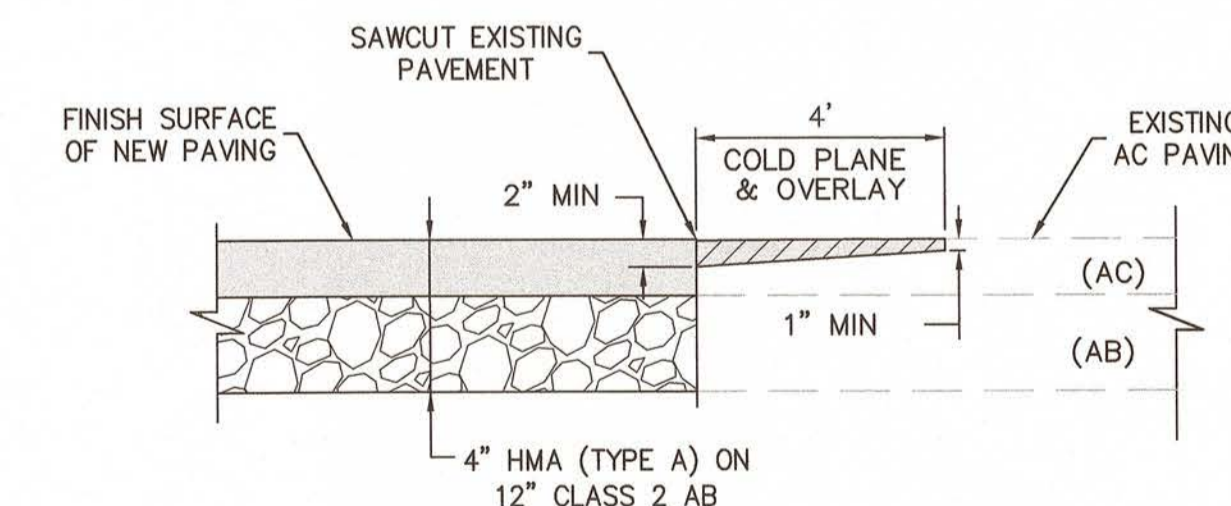
TYPICAL 26' CROSS SECTION

NO SCALE



TYPICAL 30' CROSS SECTION

NO SCALE



EDGE GRIND DETAIL

NO SCALE

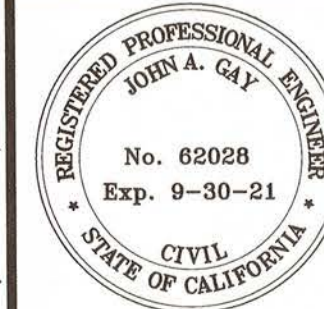
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REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NVS
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
6/30/22
DATE

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 3/2/2021
DRAWN SD
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CHECKED DB

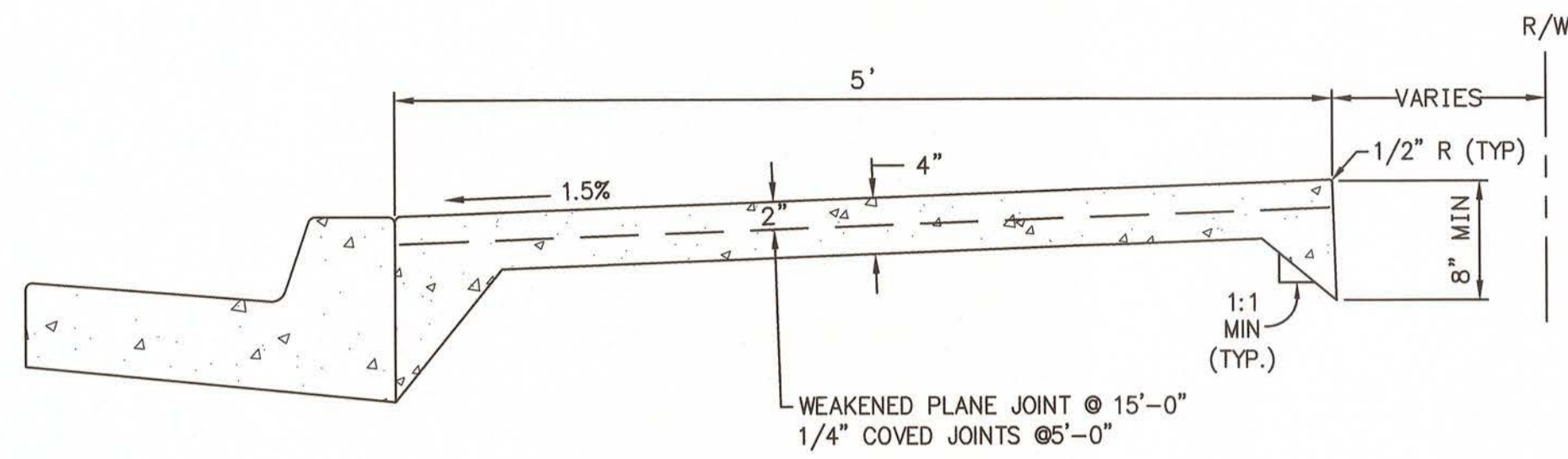
HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

CIVIL DETAILS No. 1

REFERENCE
R-985

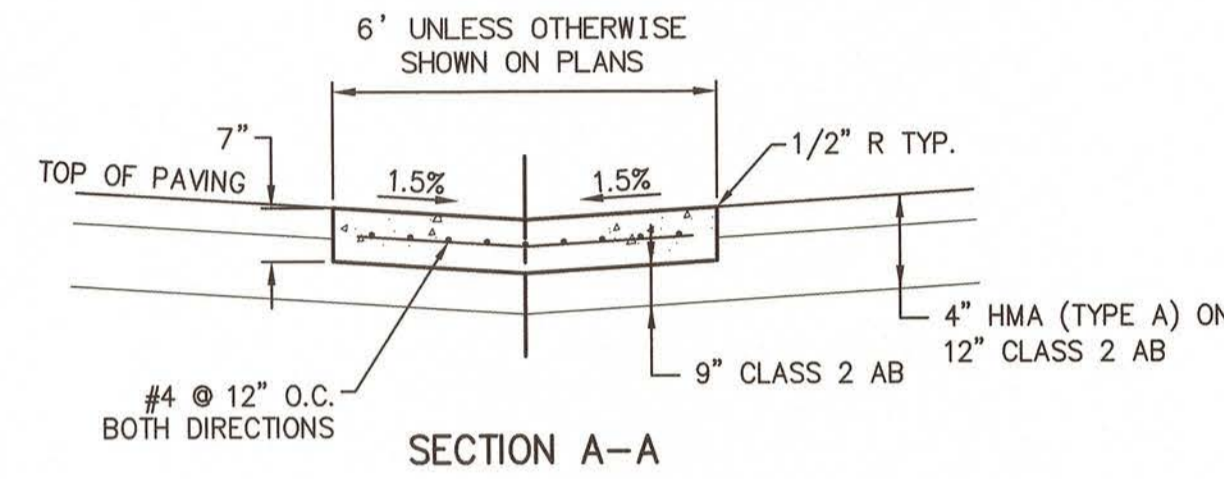
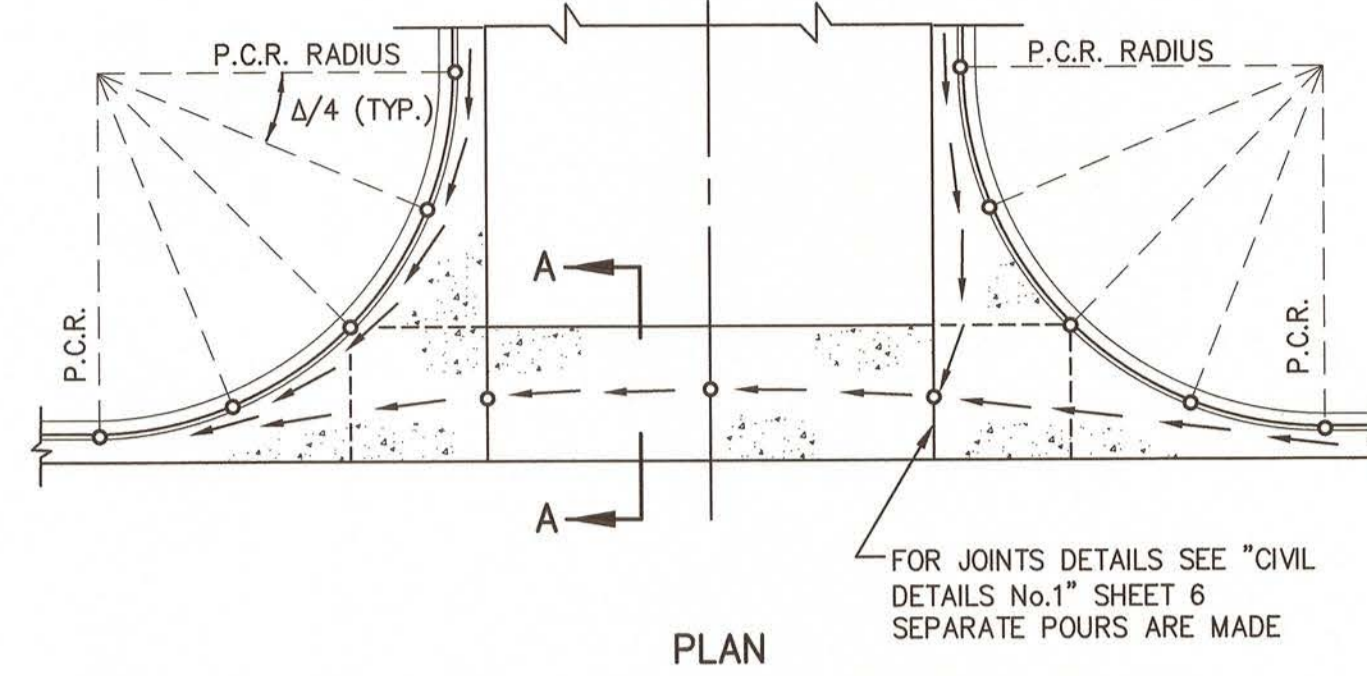
SHEET 6 OF 26

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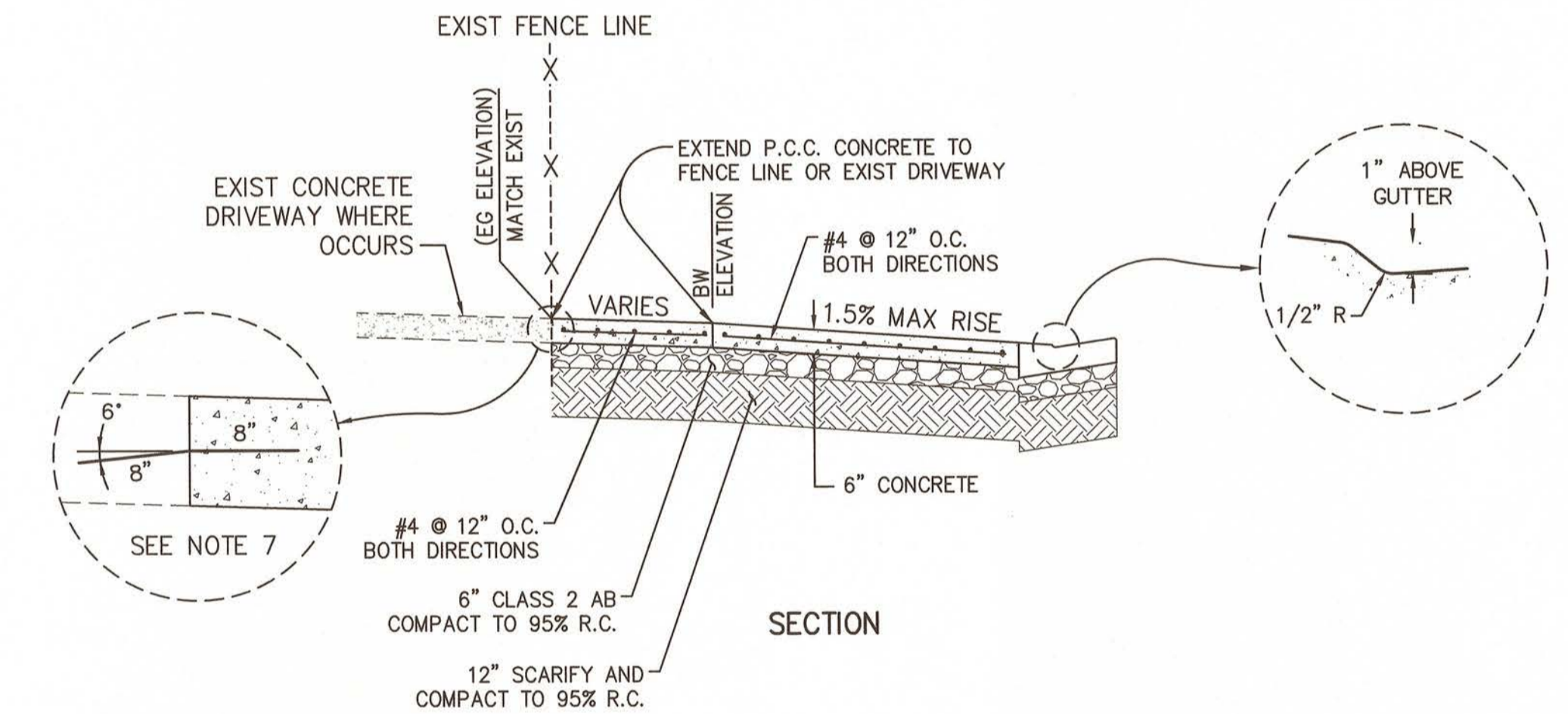
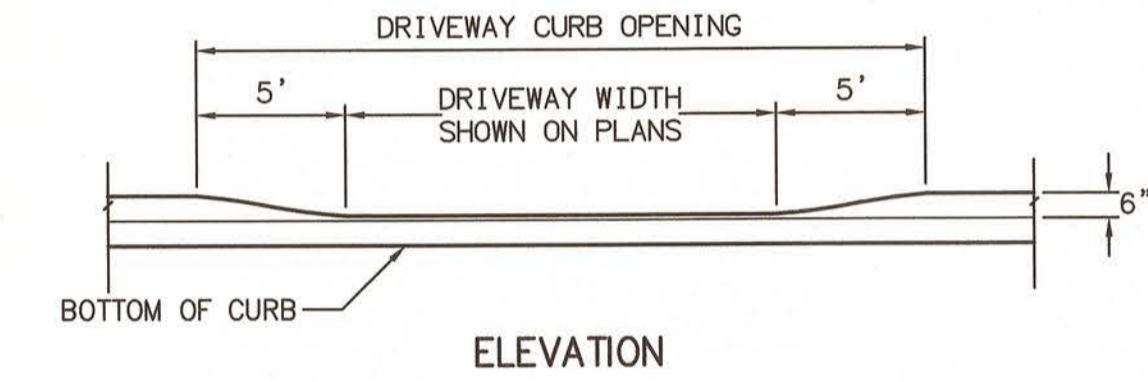
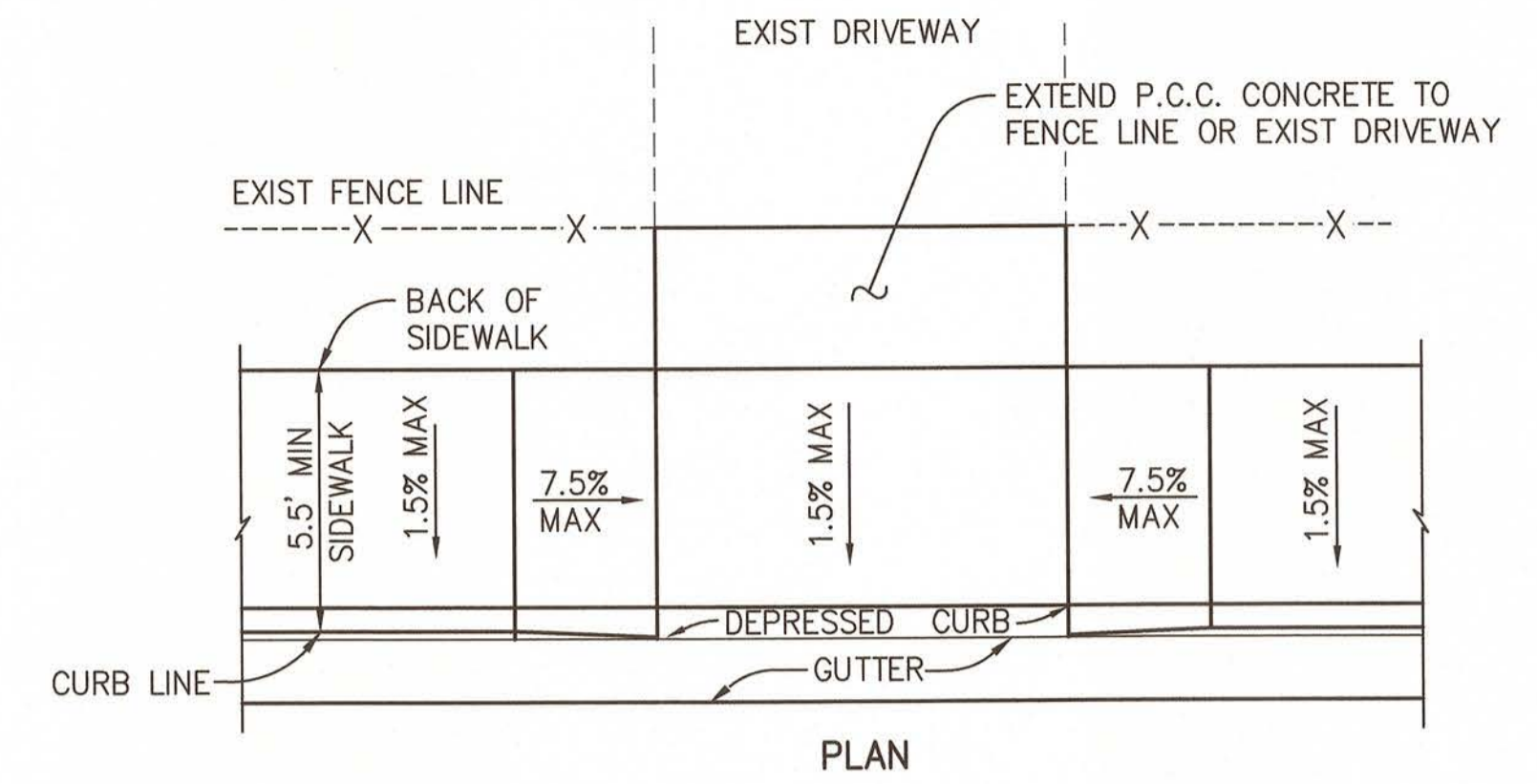
- NOTE:
1. ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE PUBLIC SAFETY.
 2. EXPANSION JOINTS TO BE INSTALLED AT ALL B.C.'S, E.C.'S, CURB RETURNS AND STRUCTURES IN ADDITION TO 45' O.C.
 3. FOR JOINTS DETAILS SEE "CIVIL DETAILS No.1" SHEET 6
 4. SIDEWALK AND CURB SHALL NOT BE POURED MONOLITHIC.
 5. SEE SUBGRADE DEPTH IN TYPICAL CROSS SECTIONS. SEE "CIVIL DETAILS No. 1" SHEET 6.
 6. CONTIGUOUS SIDEWALK SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.

CONTIGUOUS SIDEWALK DETAIL
NO SCALE



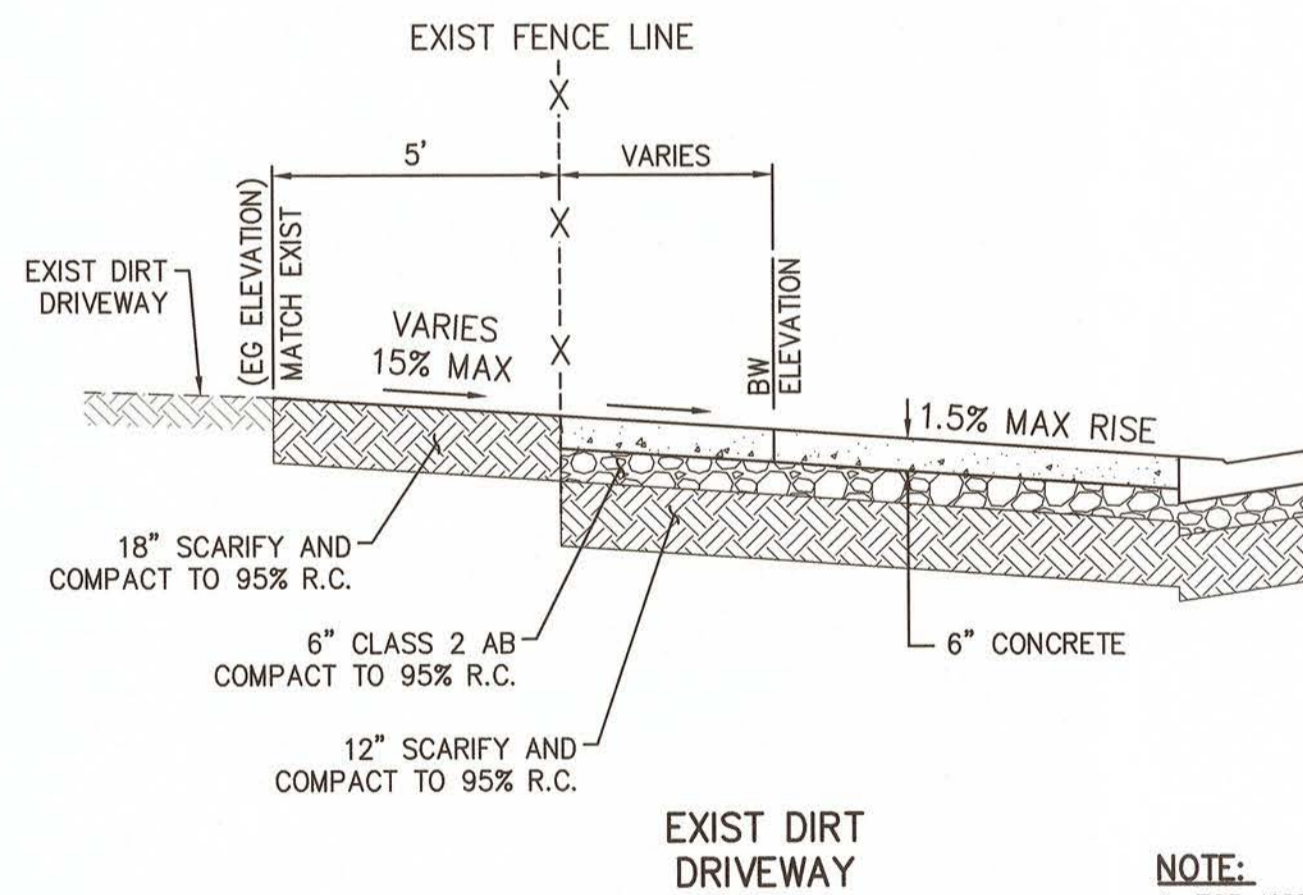
- NOTE:
1. CONCRETE SHALL BE 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99.
 2. --- = WEAKENED PLANE JOINTS.
 3. --- = TYPICAL FLOWLINES.
 4. ○ = ELEVATIONS TO BE SHOWN ON PLANS.
 5. RETURN SEGMENTS TO BE 7" THICK.
 6. CURB BETWEEN P.C.R.'S SHALL BE CONSIDERED AS PART OF THE CROSS GUTTER.
 7. IN ALL CASES SUBGRADE SHALL BE COMPACTED TO 95% MIN. RELATIVE COMPACTION TO DEPTH OF 12".

CROSS GUTTER
NO SCALE



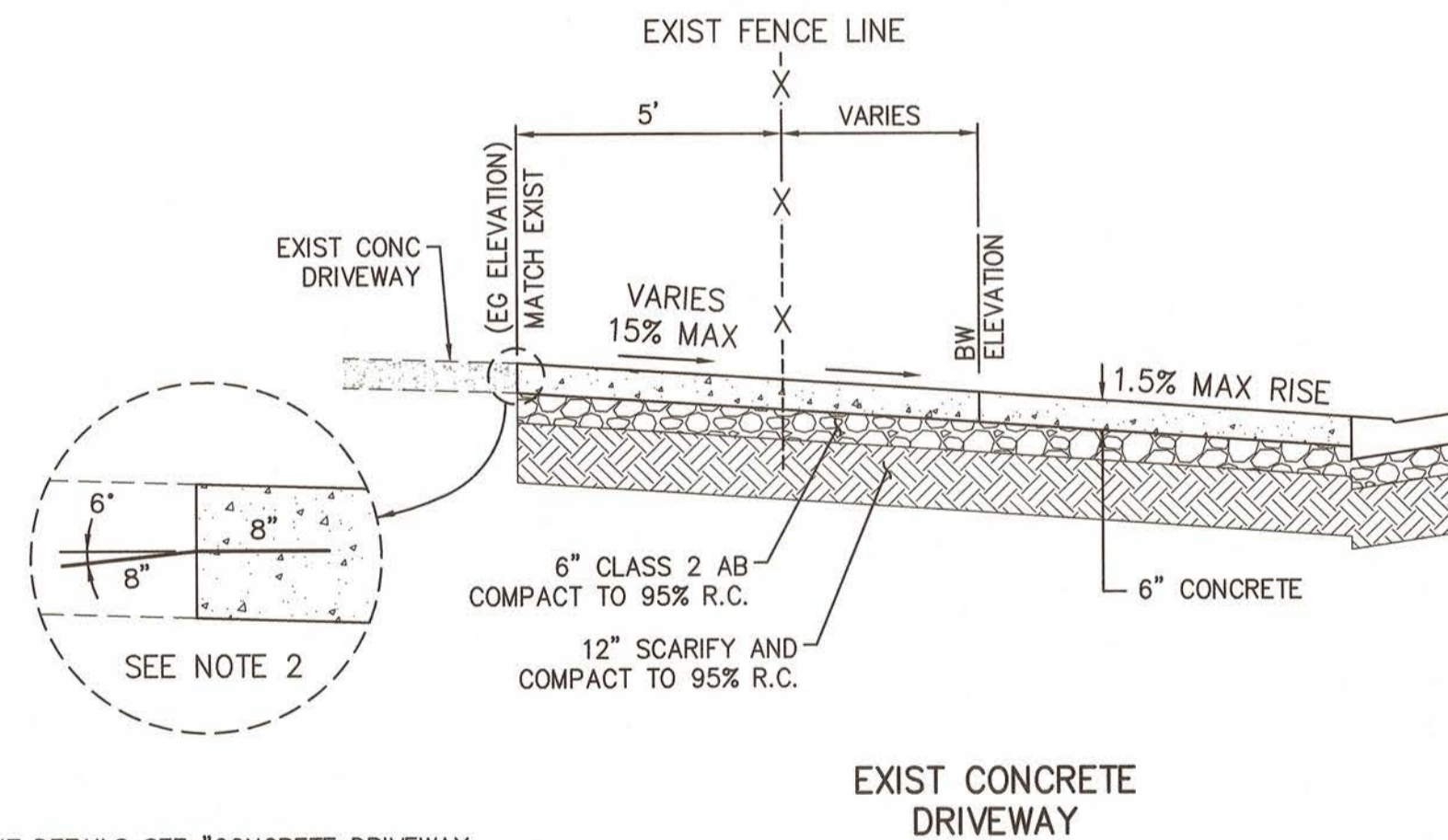
- NOTES:
1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE AGENCY.
 2. FOR RESIDENTIAL USE, CONCRETE SHALL BE 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99
 3. FOR JOINTS DETAILS SEE "CIVIL DETAILS No.1" SHEET 6.
 4. PLACE EXPANSION JOINT AT RIGHT-OF-WAY.
 5. DIMENSIONS SHOWN REFLECT A 6" CURB HEIGHT.
 6. RAMP LENGTH CALCULATIONS ARE BASED ON X-1" TO ACCOUNT FOR THE 1" DRIVEWAY LIP.
 7. CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB.

CONCRETE DRIVEWAY CONNECTION DETAIL
NO SCALE



- NOTE:
1. FOR NOTES AND REBAR REINFORCEMENT DETAILS SEE "CONCRETE DRIVEWAY CONNECTION DETAIL" THIS SHEET
 2. CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB.

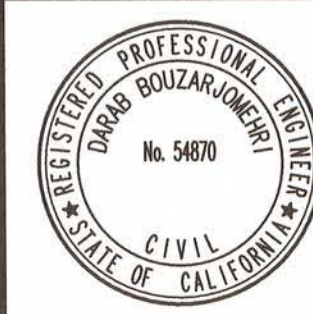
5' ENCROACHMENT DRIVEWAY CONNECTION DETAIL
NO SCALE



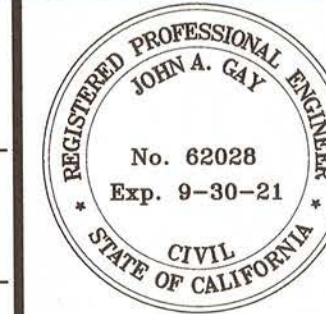
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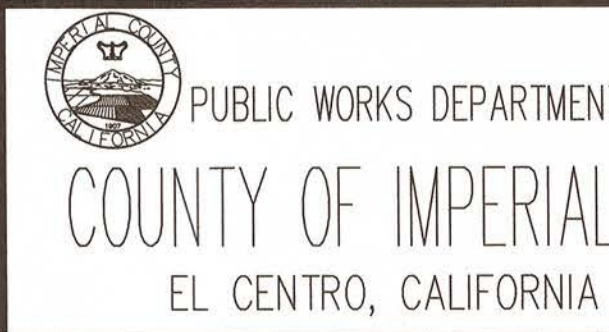
REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/30/21
DATE



DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

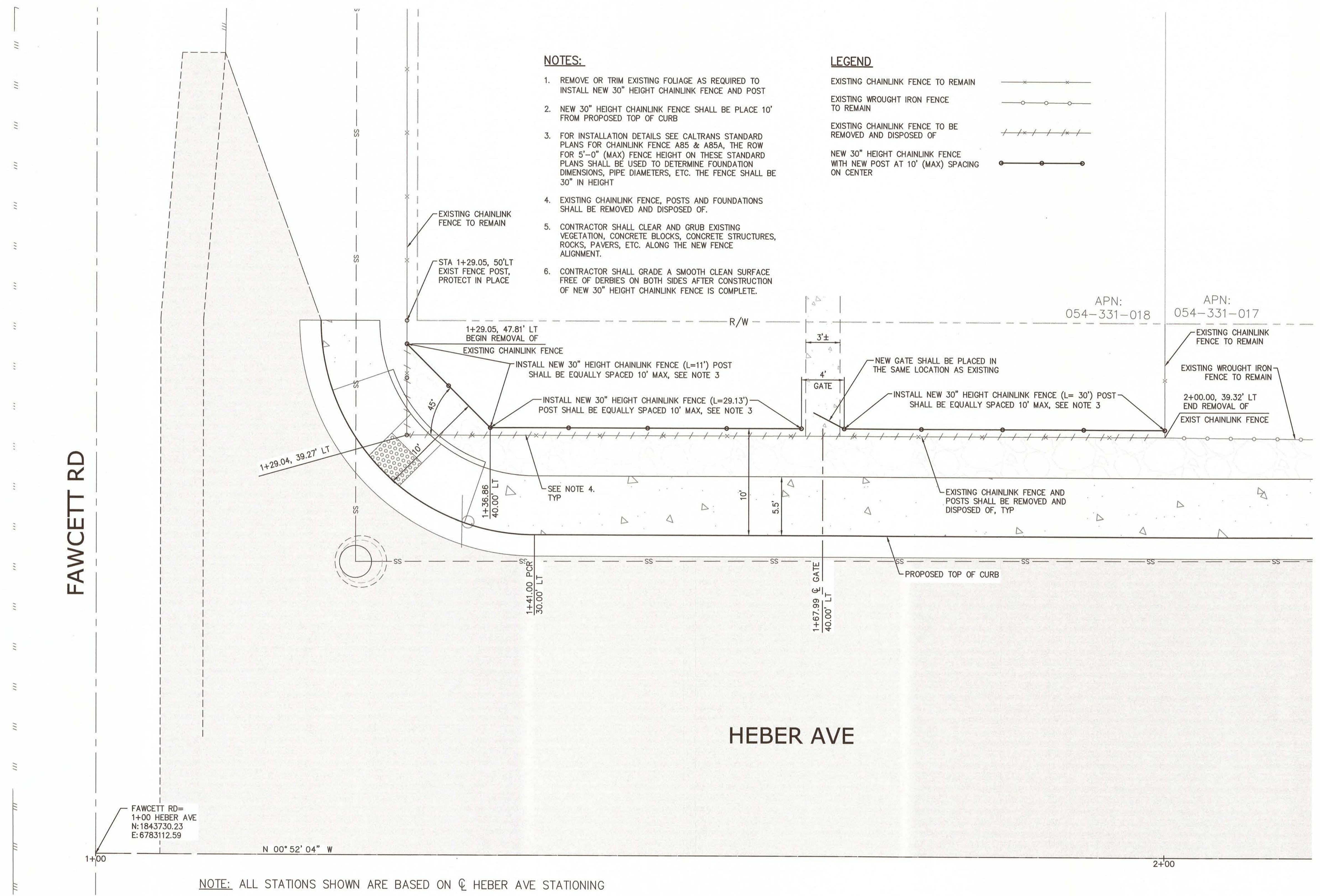
HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

CIVIL DETAILS No. 2

REFERENCE
R-985

SHEET 7 OF 26

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NOTES:

1. REMOVE OR TRIM EXISTING FOLIAGE AS REQUIRED TO INSTALL NEW 30" HEIGHT CHAINLINK FENCE AND POST
2. NEW 30" HEIGHT CHAINLINK FENCE SHALL BE PLACE 10' FROM PROPOSED TOP OF CURB
3. FOR INSTALLATION DETAILS SEE CALTRANS STANDARD PLANS FOR CHAINLINK FENCE AB5 & AB5A, THE ROW FOR 5'-0" (MAX) HEIGHT ON THESE STANDARD PLANS SHALL BE USED TO DETERMINE FOUNDATION DIMENSIONS, PIPE DIAMETERS, ETC. THE FENCE SHALL BE 30" IN HEIGHT
4. EXISTING CHAINLINK FENCE, POSTS AND FOUNDATIONS SHALL BE REMOVED AND DISPOSED OF.
5. CONTRACTOR SHALL CLEAR AND GRUB EXISTING VEGETATION, CONCRETE BLOCKS, CONCRETE STRUCTURES, ROCKS, PAVERS, ETC. ALONG THE NEW FENCE ALIGNMENT.
6. CONTRACTOR SHALL GRADE A SMOOTH CLEAN SURFACE FREE OF DERBIES ON BOTH SIDES AFTER CONSTRUCTION OF NEW 30" HEIGHT CHAINLINK FENCE IS COMPLETE.

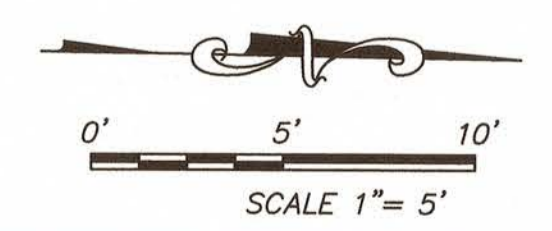
LEGEND

- EXISTING CHAINLINK FENCE TO REMAIN
- EXISTING WROUGHT IRON FENCE TO REMAIN
- EXISTING CHAINLINK FENCE TO BE REMOVED AND DISPOSED OF
- NEW 30" HEIGHT CHAINLINK FENCE WITH NEW POST AT 10' (MAX) SPACING ON CENTER

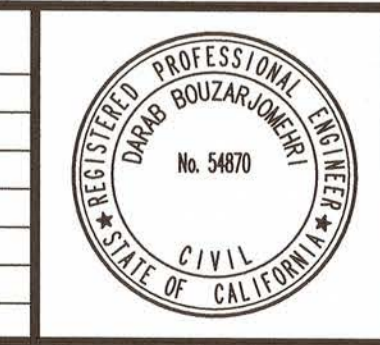
NOTE: ALL STATIONS SHOWN ARE BASED ON \odot HEBER AVE STATIONING

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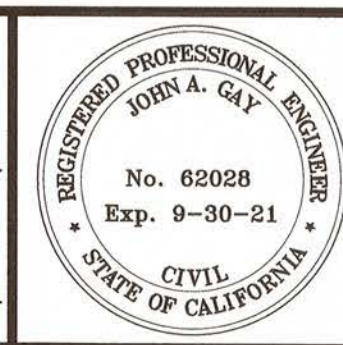
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REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021 DATE
6/30/22 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/19/21 DATE
62028 R.C.E. No.
9/30/21 REG. EXP.

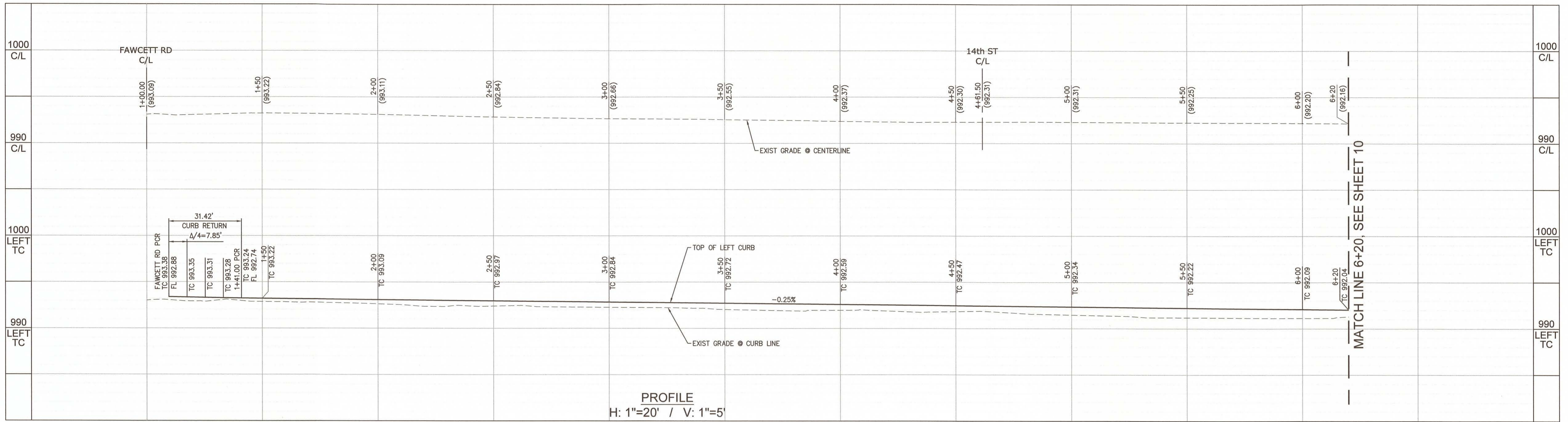
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/8/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

FENCE REPLACEMENT
DETAILS
REFERENCE R-985
SHEET 8 OF 26

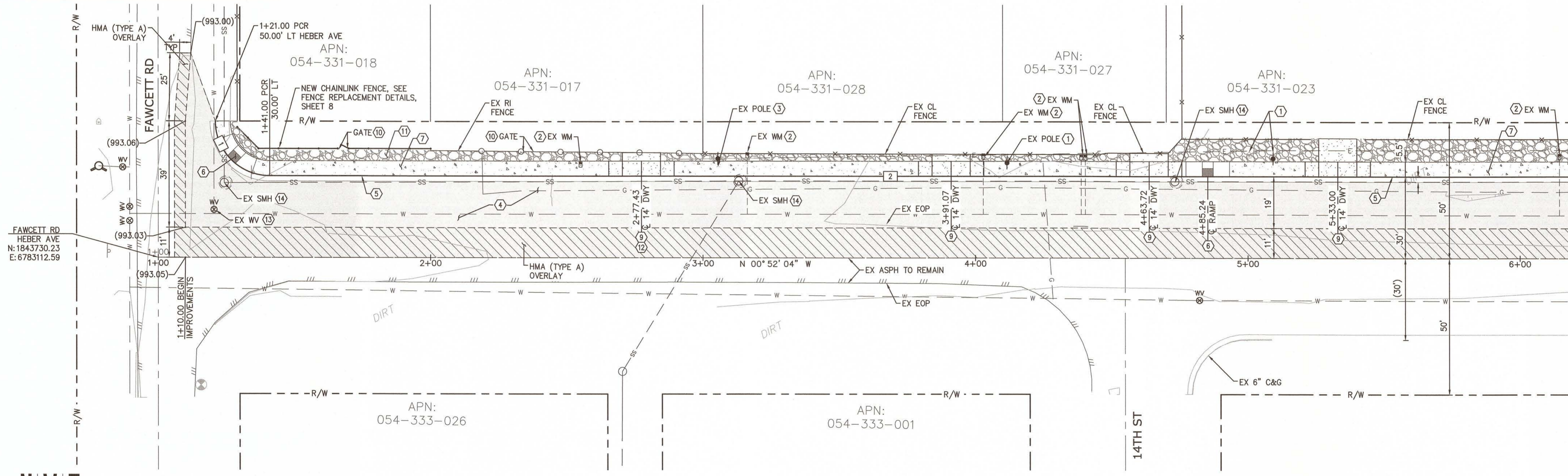
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PROFILE
H: 1"=20' / V: 1"=5'

CURB DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	$\Delta=90^{\circ}00'00''$	20.00'	31.42'	(5)
2	N 00° 52' 04" W	-	459.00'	(5)

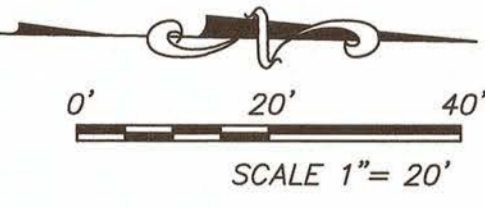
NOTE:
FOR CONCRETE DRIVEWAY AND PEDESTRIAN RAMP DETAILS
SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2"



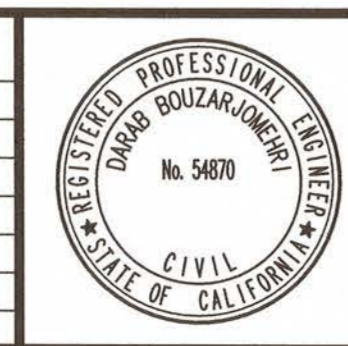
PLAN
SCALE: 1"=20'

- CONSTRUCTION NOTES**
- (1) PROTECT IN PLACE
 - (2) ADJUST TO GRADE
 - (3) TO BE RELOCATED BY OTHERS
 - (4) 4" HMA (TYPE A) OVER 12" CI 2 AB WITH 12" SCARIFY AND COMPACT TO 95% R.C.
 - (5) 6" CURB AND GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - (6) CASE "C" PEDESTRIAN RAMP FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - (7) CONTIGUOUS SIDEWALK FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - (8) CONCRETE CROSS GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - (9) CONCRETE DRIVEWAY FOR DETAILS SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2" & "CIVIL DETAILS No. 2" WIDTH AS SHOWN ON PLANS
 - (10) EXIST MAN GATE, ACCESS SHALL BE MAINTAINED
 - (11) GAPS BETWEEN THE PROPOSED BACK OF SIDEWALK AND THE EXISTING FENCE SHALL BE FILLED WITH CLASS 2 AGGREGATE BASE.
 - (12) CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB.
 - (13) WATER VALVES:
 1. ADJUST WATER VALVE COVER TO GRADE. PLACE CONCRETE RING PER HEBER PUBLIC UTILITY DISTRICT STANDARD DETAIL W-103
 - (14) SEWER MANHOLES:
 1. CONTRACTOR SHALL PROVIDE A VERTICAL GASKET IN THE MANHOLE RIM TO PROVIDE A WATERTIGHT MANHOLE COVER, AND PREVENT STORM WATER INFILTRATION INTO THE SEWER MANHOLE. SEE SPECIAL PROVISIONS.
 2. CONTRACTOR SHALL EXPOSE THE SEWER MANHOLE UPPER CONE AND ROTATE THE CONE TO LOCATE THE MANHOLE COLLAR AND COVER AWAY FROM THE CURB AND GUTTER FLOW LINE.
 3. PLACE GRADE RINGS AS REQUIRED TO ADJUST THE MANHOLE COVER TO GRADE.
 4. INSTALL A 1'-0" WIDE, 1'-0" DEEP CONCRETE RING CIRCUMFERENTIALLY AROUND THE MANHOLE FRAME. PLACE THE CONCRETE RING FLUSH WITH THE ADJACENT PAVEMENT.
 5. REUSE THE EXISTING MANHOLE FRAME AND COVER, UNLESS DAMAGED DURING THE WORK. ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH IDENTICAL NEW ITEMS AT NO EXPENSE TO THE COUNTY.

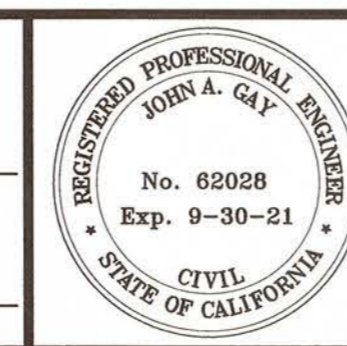
NV5
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/30/21
DATE

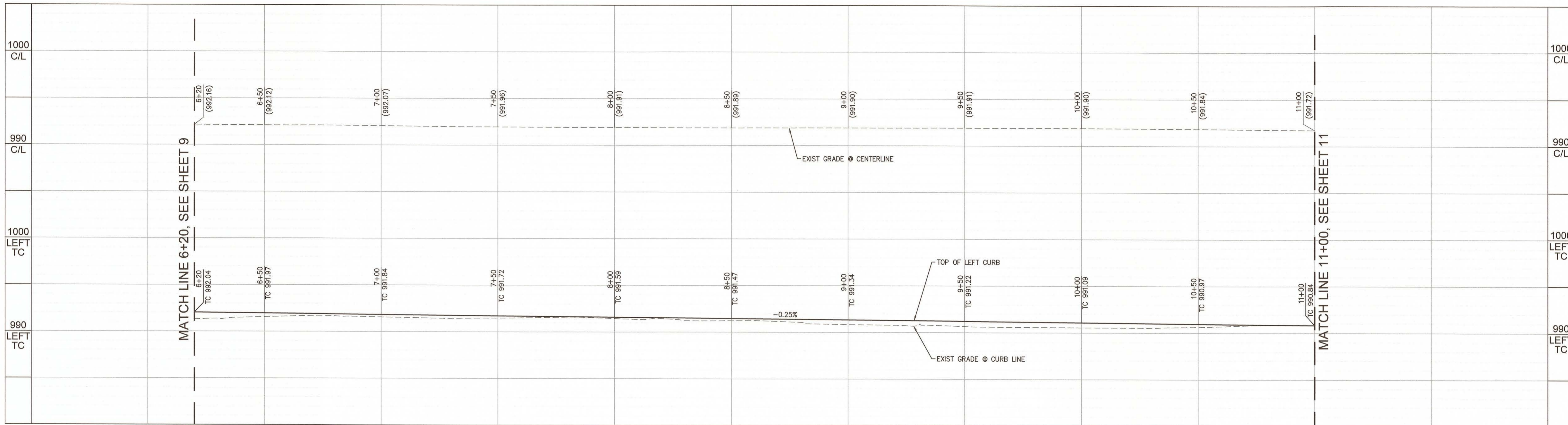
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

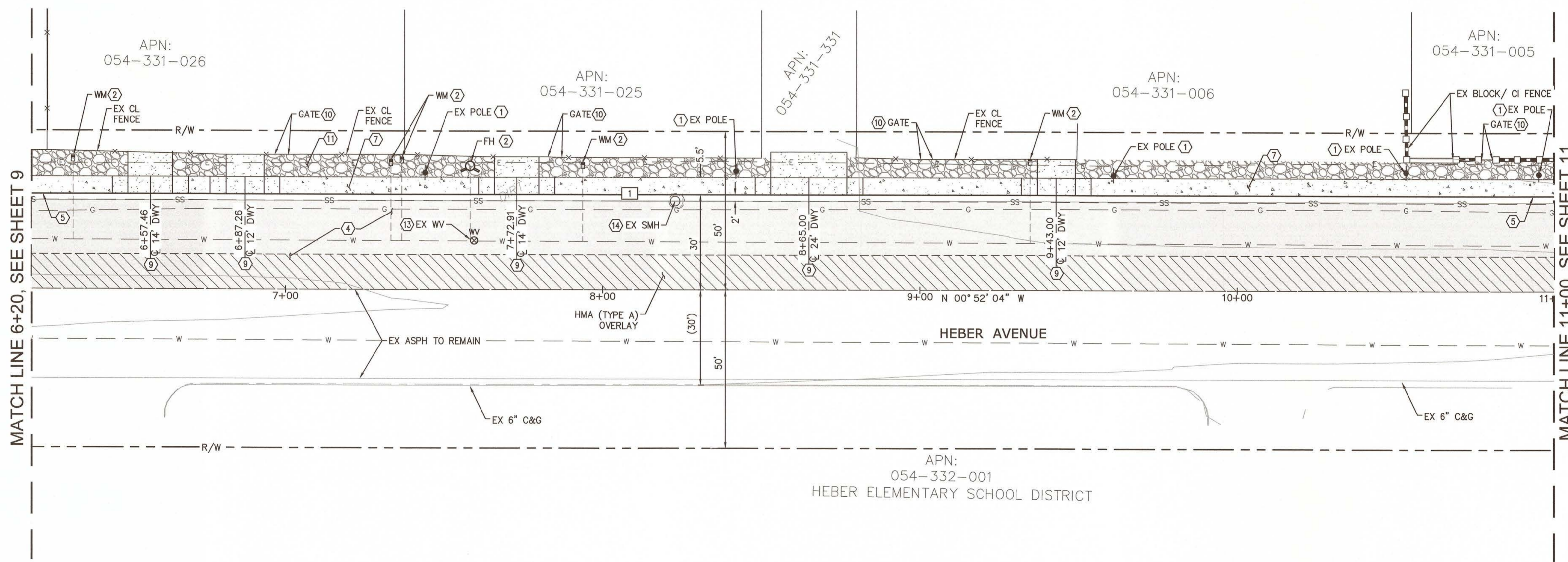
HEBER AVE PLAN & PROFILE
1+00 TO 6+00
REFERENCE R-985
SHEET 9 OF 26

N:\20-0000787\Cadd\Civil\787_P&P.dwg | Sen-02-2021-13-25



CURB DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 00° 52' 04" W	-	500.00'	(5)

NOTE:
FOR CONCRETE DRIVEWAY AND PEDESTRIAN RAMP DETAILS
SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2"



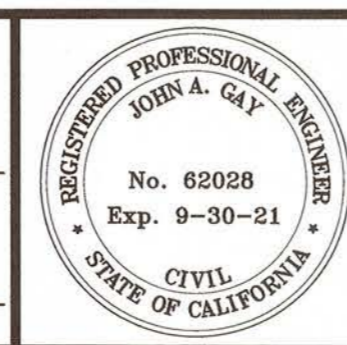
- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - ADJUST TO GRADE
 - TO BE RELOCATED BY OTHERS
 - 4" HMA (TYPE A) OVER 12" CI 2 AB WITH 12" SCARIFY AND COMPACT TO 95% R.C.
 - 6" CURB AND GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - CASE "C" PEDESTRIAN RAMP FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - CONTIGUOUS SIDEWALK FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - CONCRETE CROSS GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - CONCRETE DRIVEWAY FOR DETAILS SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2" AND "CIVIL DETAILS No. 2" WIDTH AS SHOWN ON PLANS
 - EXIST MAN GATE, ACCESS SHALL BE MAINTAINED
 - GAPS BETWEEN THE PROPOSED BACK OF SIDEWALK AND THE EXISTING FENCE SHALL BE FILLED WITH CLASS 2 AGGREGATE BASE.
 - CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB.
 - WATER VALVES:
 - ADJUST WATER VALVE COVER TO GRADE. PLACE CONCRETE RING PER HEBER PUBLIC UTILITY DISTRICT STANDARD DETAIL W-103
 - SEWER MANHOLES:
 - CONTRACTOR SHALL PROVIDE A VERTICAL GASKET IN THE MANHOLE RIM TO PROVIDE A WATERTIGHT MANHOLE COVER, AND PREVENT STORM WATER INFILTRATION INTO THE SEWER MANHOLE. SEE SPECIAL PROVISIONS.
 - CONTRACTOR SHALL EXPOSE THE SEWER MANHOLE UPPER CONE AND ROTATE THE CONE TO LOCATE THE MANHOLE COLLAR AND COVER AWAY FROM THE CURB AND GUTTER FLOW LINE.
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 - REUSE THE EXISTING MANHOLE FRAME AND COVER, UNLESS DAMAGED DURING THE WORK. ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH IDENTICAL NEW ITEMS AT NO EXPENSE TO THE COUNTY.

NV5
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM

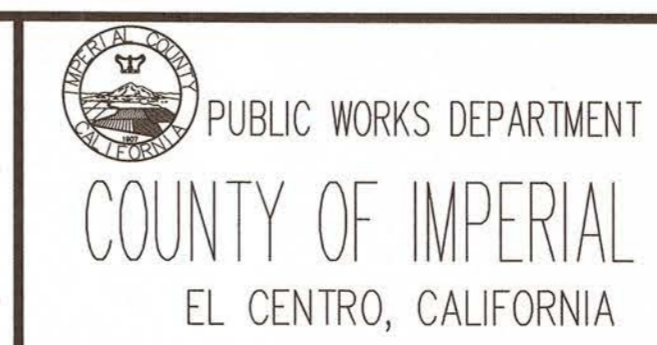
REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NVS
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
6/30/22
REG. EXP.

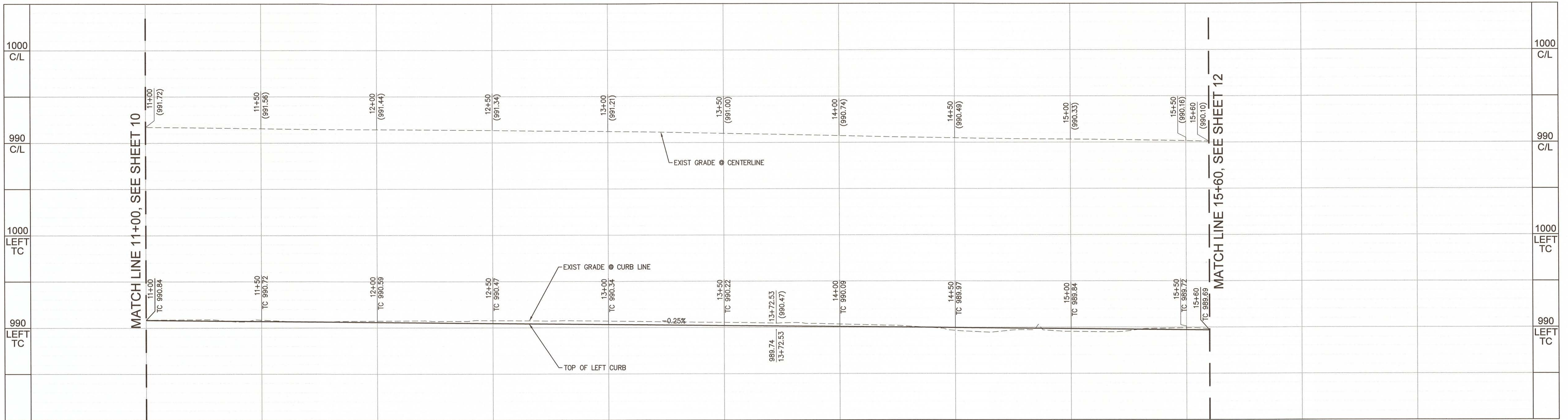


DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

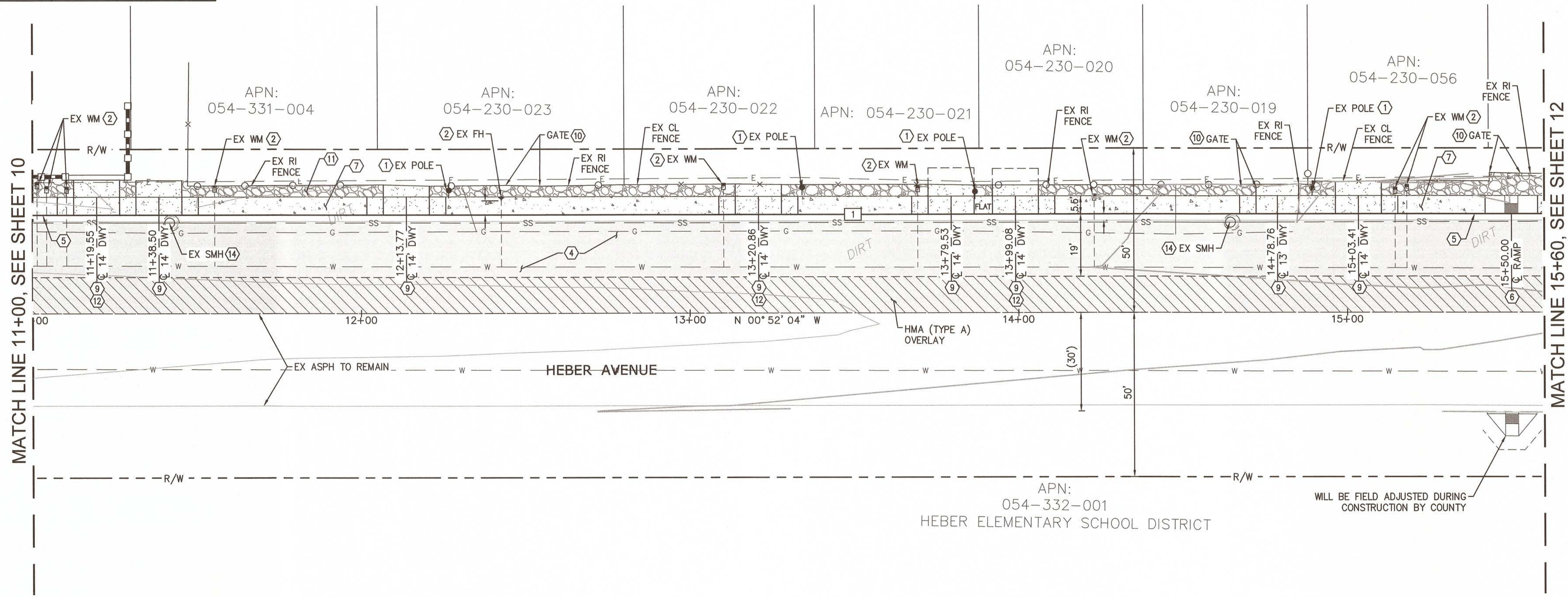
HEBER AVE PLAN & PROFILE 6+00 TO 11+00	
REFERENCE R-985	SHEET 10 OF 26

N:\90-0000787\Coord\Civil\787 PaP.dwg | San-02-2021-13-25



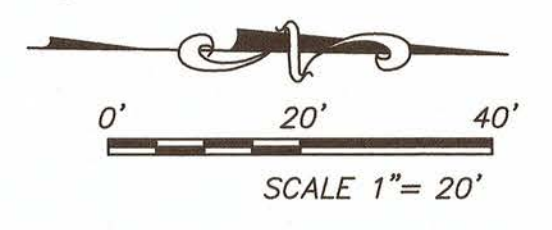
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NO	DELTA/BEARING	RADIUS	REMARKS
1	N 00° 52' 04" W	-	460.00' (5)

NOTE:
FOR CONCRETE DRIVEWAY AND PEDESTRIAN RAMP DETAILS
SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2"

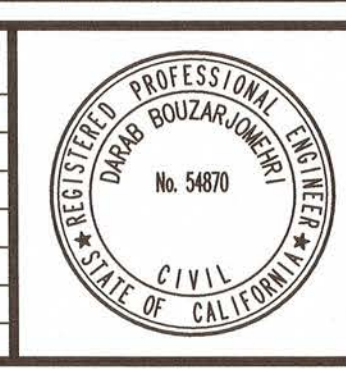


- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - ADJUST TO GRADE
 - TO BE RELOCATED BY OTHERS
 - 4" HMA (TYPE A) OVER 12" CI 2 AB WITH 12" SCARIFY AND COMPACT TO 95% R.C.
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 - CONTIGUOUS SIDEWALK FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - CONCRETE CROSS GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - CONCRETE DRIVEWAY FOR DETAILS SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2" & "CIVIL DETAILS No. 2" WIDTH AS SHOWN ON PLANS
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 - SEWER MANHOLES:
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NV5
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM

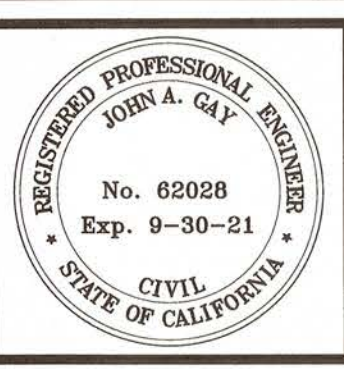


REVISION	DATE	COMMENTS



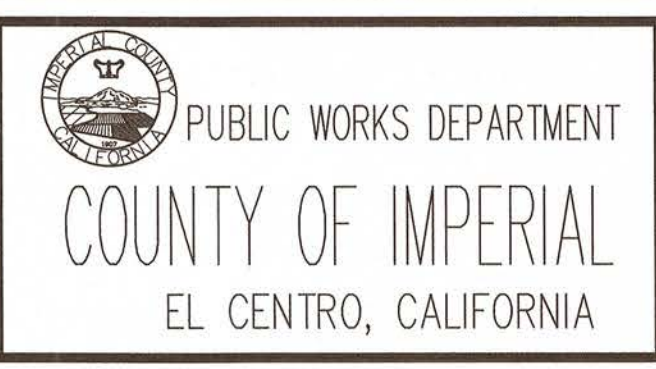
PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE

54870
R.C.E. No.
6/30/22
REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/30/21
DATE

62028
R.C.E. No.
9/30/21
REG. EXP.

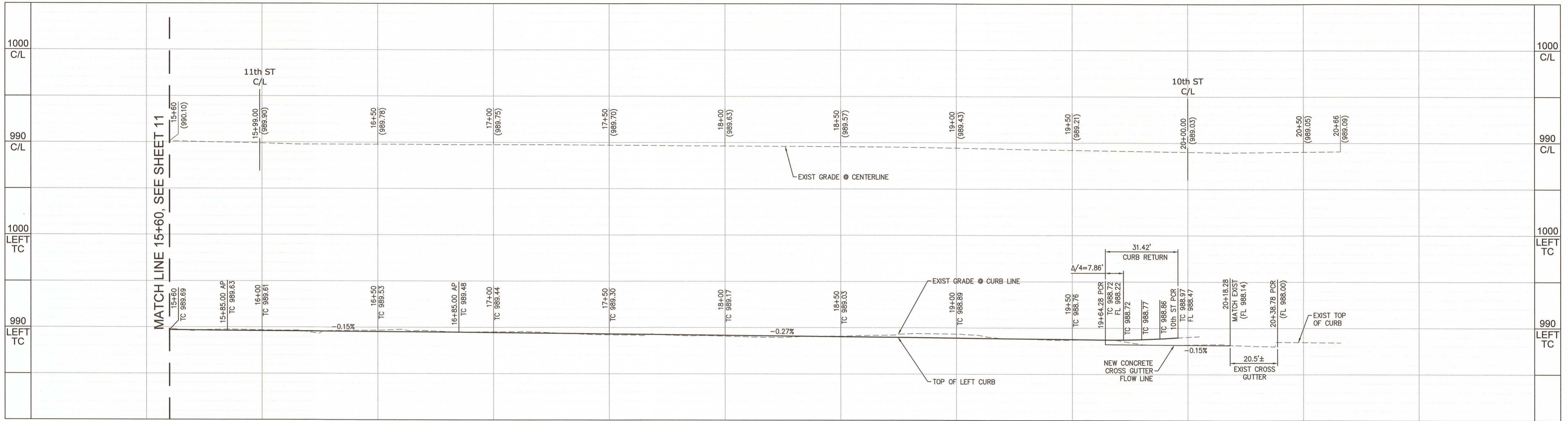


DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

**HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS**
COUNTY PROJECT No. 6515

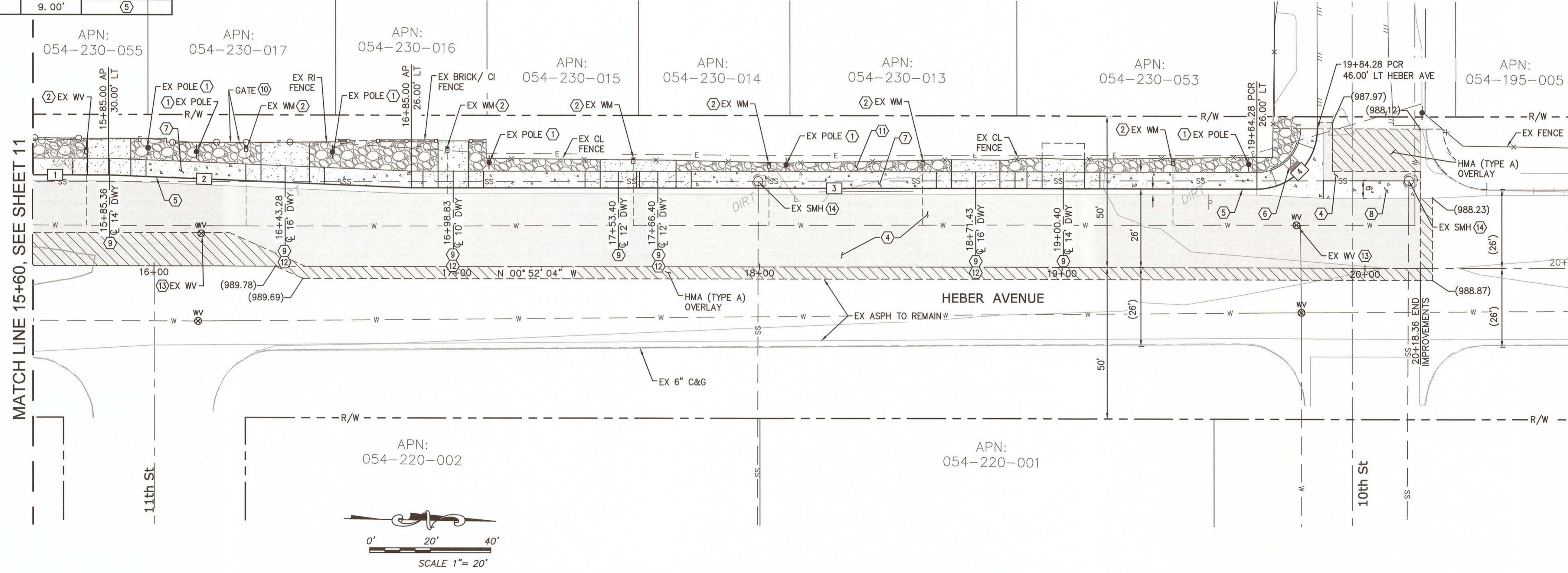
HEBER AVE PLAN & PROFILE 11+00 TO 15+60	
REFERENCE R-985	SHEET 11 OF 26

N:\20-0000787\Code\Civil\787 PaP.dwg | Sen-02-2021-13-25



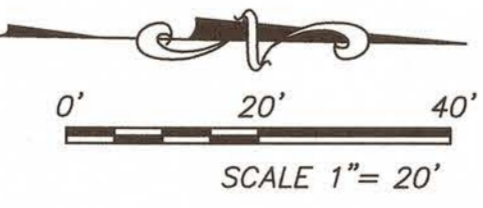
CURB DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
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2	N 01° 25' 23" E	-	100.08'	(5)
3	N 00° 52' 04" W	-	279.28'	(5)
4	Δ=90° 00' 00"	20.00'	31.42'	(5)
5	N 89° 07' 56" E	-	9.00'	(5)

NOTE:
FOR CONCRETE DRIVEWAY AND PEDESTRIAN RAMP DETAILS
SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2"

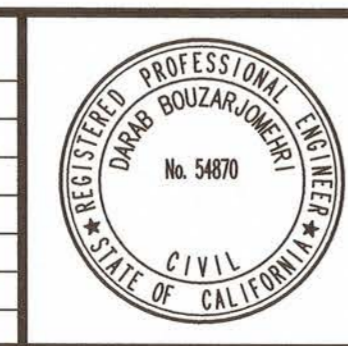


- CONSTRUCTION NOTES**
- (1) PROTECT IN PLACE
 - (2) ADJUST TO GRADE
 - (3) TO BE RELOCATED BY OTHERS
 - (4) 4" HMA (TYPE A) OVER 12" CI 2 AB WITH 12" SCARIFY AND COMPACT TO 95% R.C.
 - (5) 6" CURB AND GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - (6) CASE "C" PEDESTRIAN RAMP FOR DETAILS SEE "CIVIL DETAILS No. 1"
 - (7) CONTIGUOUS SIDEWALK FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - (8) CONCRETE CROSS GUTTER FOR DETAILS SEE "CIVIL DETAILS No. 2"
 - (9) CONCRETE DRIVEWAY FOR DETAILS SEE "DRIVEWAY AND PEDESTRIAN RAMP DETAILS No. 1 & 2" & "CIVIL DETAILS No. 2" WIDTH AS SHOWN ON PLANS
 - (10) EXIST MAN GATE, ACCESS SHALL BE MAINTAINED
 - (11) GAPS BETWEEN THE PROPOSED BACK OF SIDEWALK AND THE EXISTING FENCE SHALL BE FILLED WITH CLASS 2 AGGREGATE BASE.
 - (12) CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB.
 - (13) WATER VALVES:
 1. ADJUST WATER VALVE COVER TO GRADE. PLACE CONCRETE RING PER HEBER PUBLIC UTILITY DISTRICT STANDARD DETAIL W-103
 - (14) SEWER MANHOLES:
 1. CONTRACTOR SHALL PROVIDE A VERTICAL GASKET IN THE MANHOLE RIM TO PROVIDE A WATERTIGHT MANHOLE COVER, AND PREVENT STORM WATER INFILTRATION INTO THE SEWER MANHOLE. SEE SPECIAL PROVISIONS.
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 3. PLACE GRADE RINGS AS REQUIRED TO ADJUST THE MANHOLE COVER TO GRADE.
 4. INSTALL A 1'-0" WIDE, 1'-0" DEEP CONCRETE RING CIRCUMFERENTIALLY AROUND THE MANHOLE FRAME. PLACE THE CONCRETE RING FLUSH WITH THE ADJACENT PAVEMENT.
 5. REUSE THE EXISTING MANHOLE FRAME AND COVER, UNLESS DAMAGED DURING THE WORK. ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH IDENTICAL NEW ITEMS AT NO EXPENSE TO THE COUNTY.

N|V|5
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
4/9/21
DATE

COUNTY OF IMPERIAL
PUBLIC WORKS DEPARTMENT
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

**HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515**

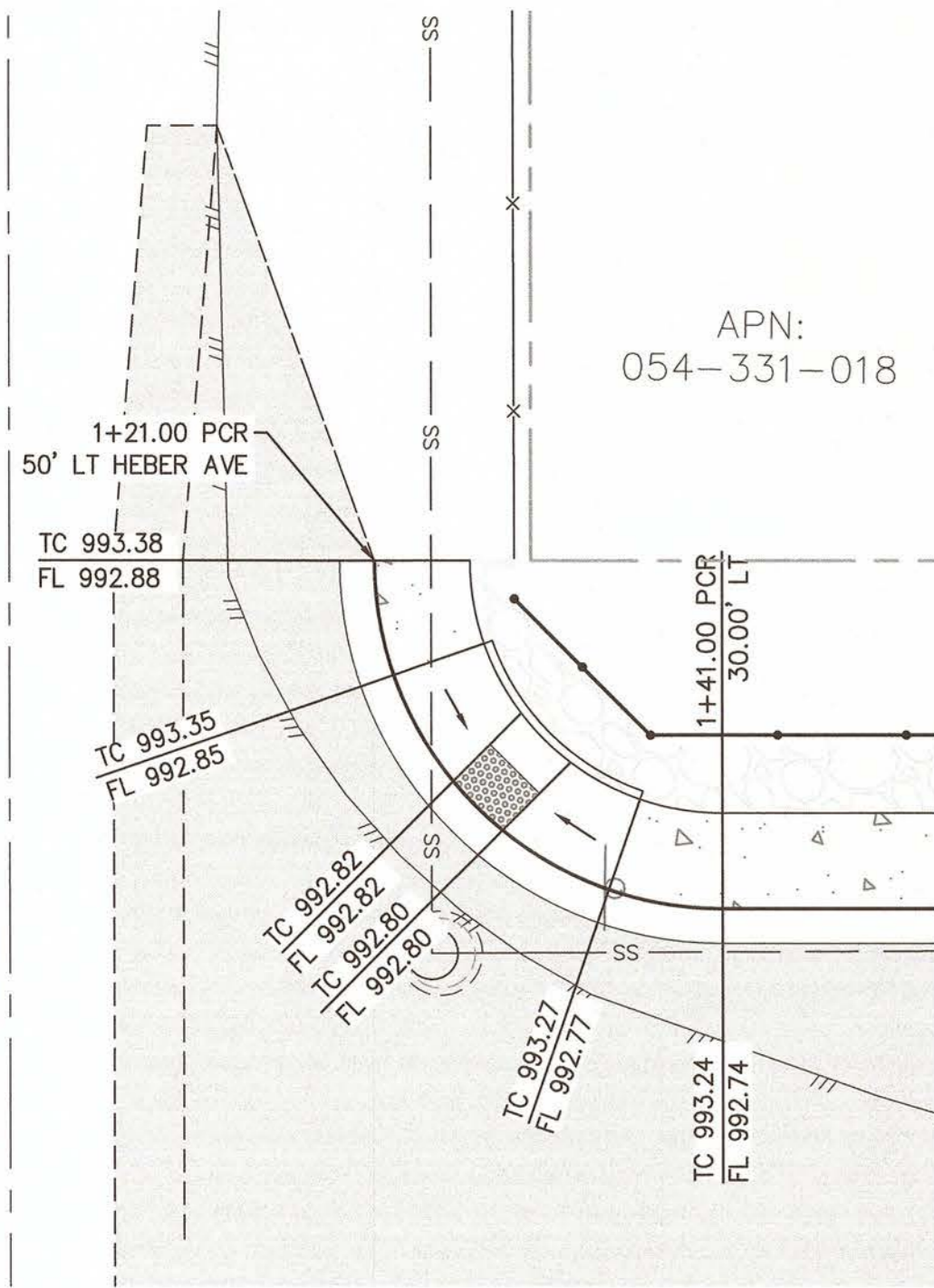
**HEBER AVE PLAN & PROFILE
15+60 TO 20+18.28**

REFERENCE R-985

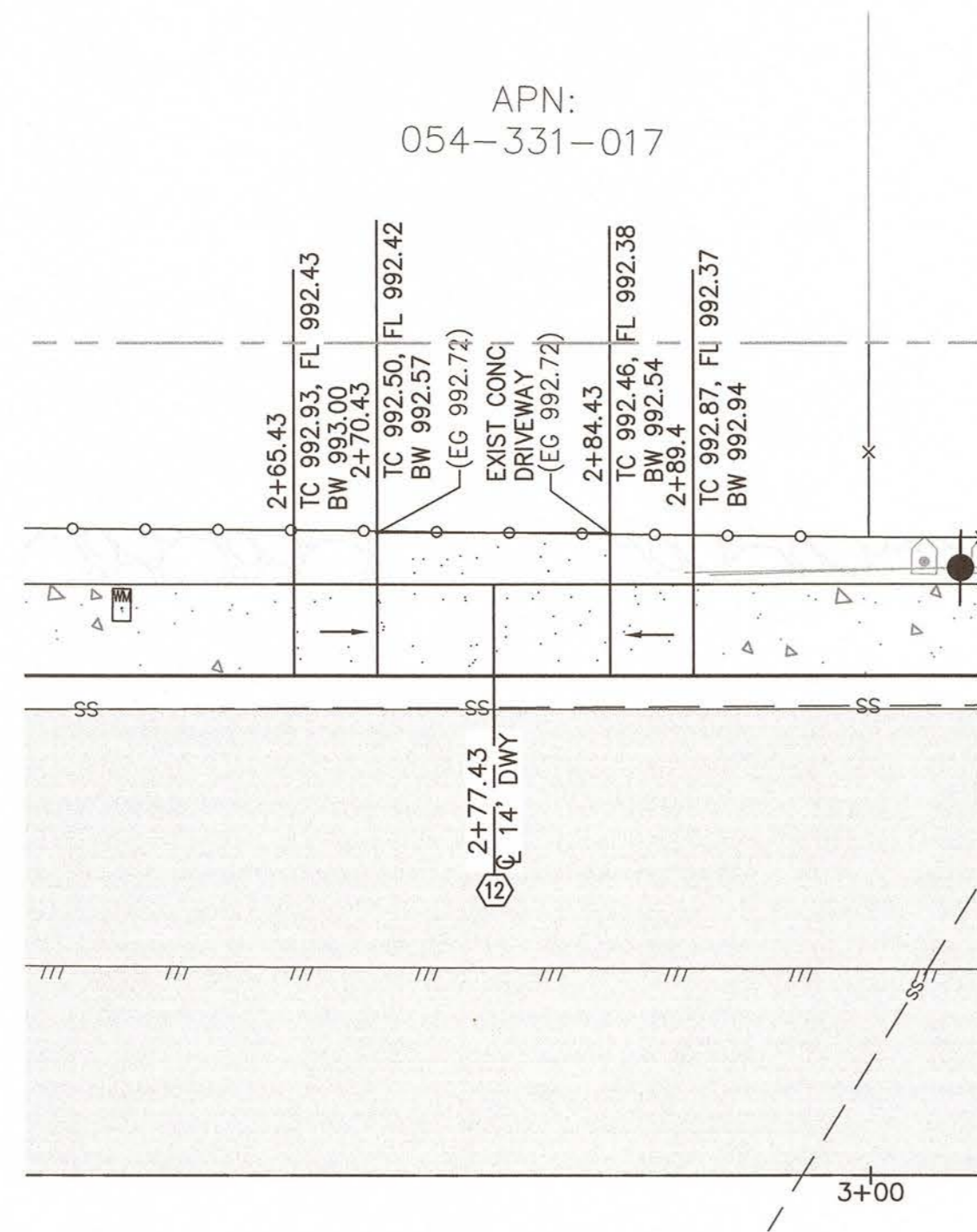
SHEET 12 OF 26

N:\20-0000787\Contra\Civil\787_P&P.dwg Tsen-02-2021-13-25

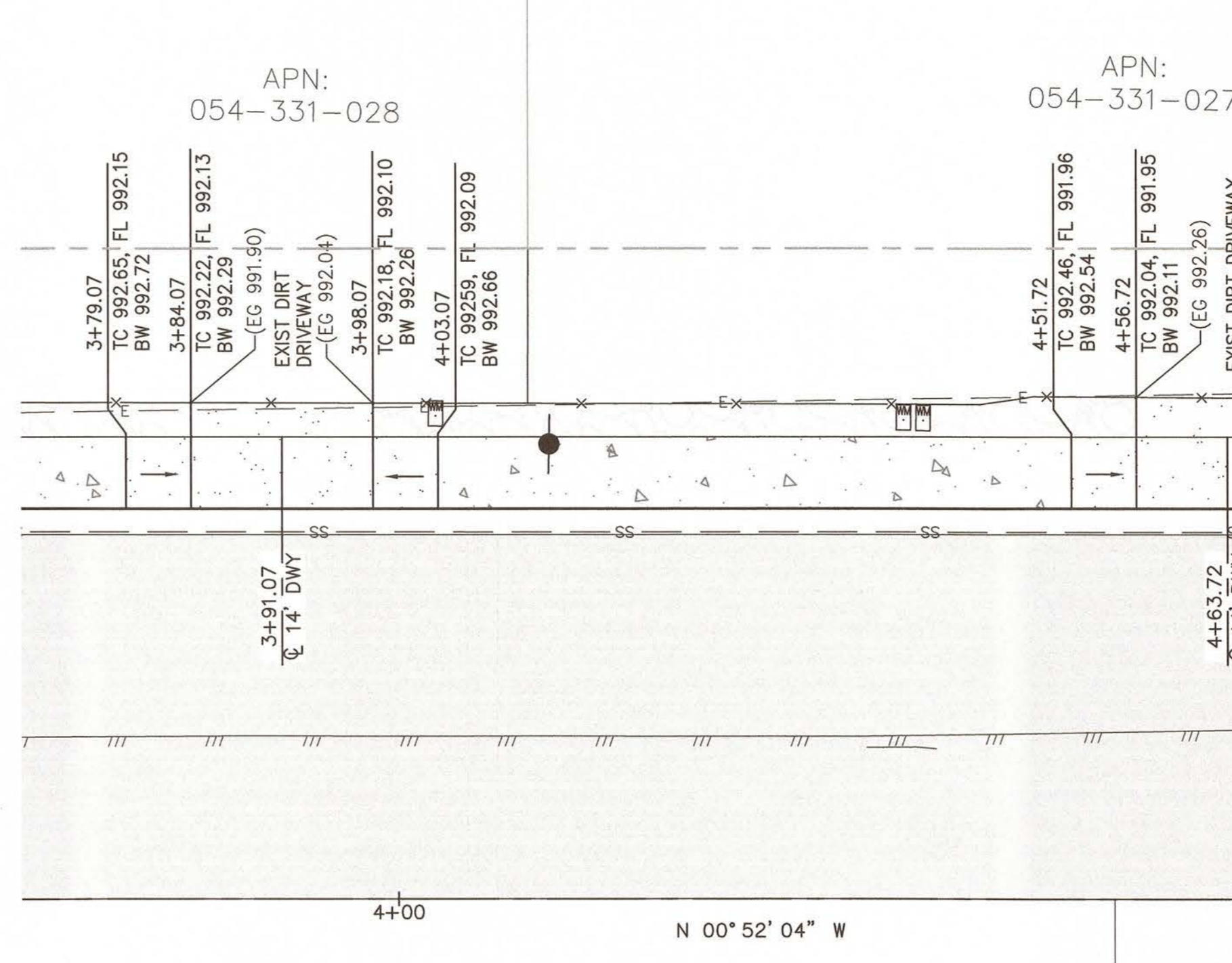
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PEDESTRIAN RAMP 1

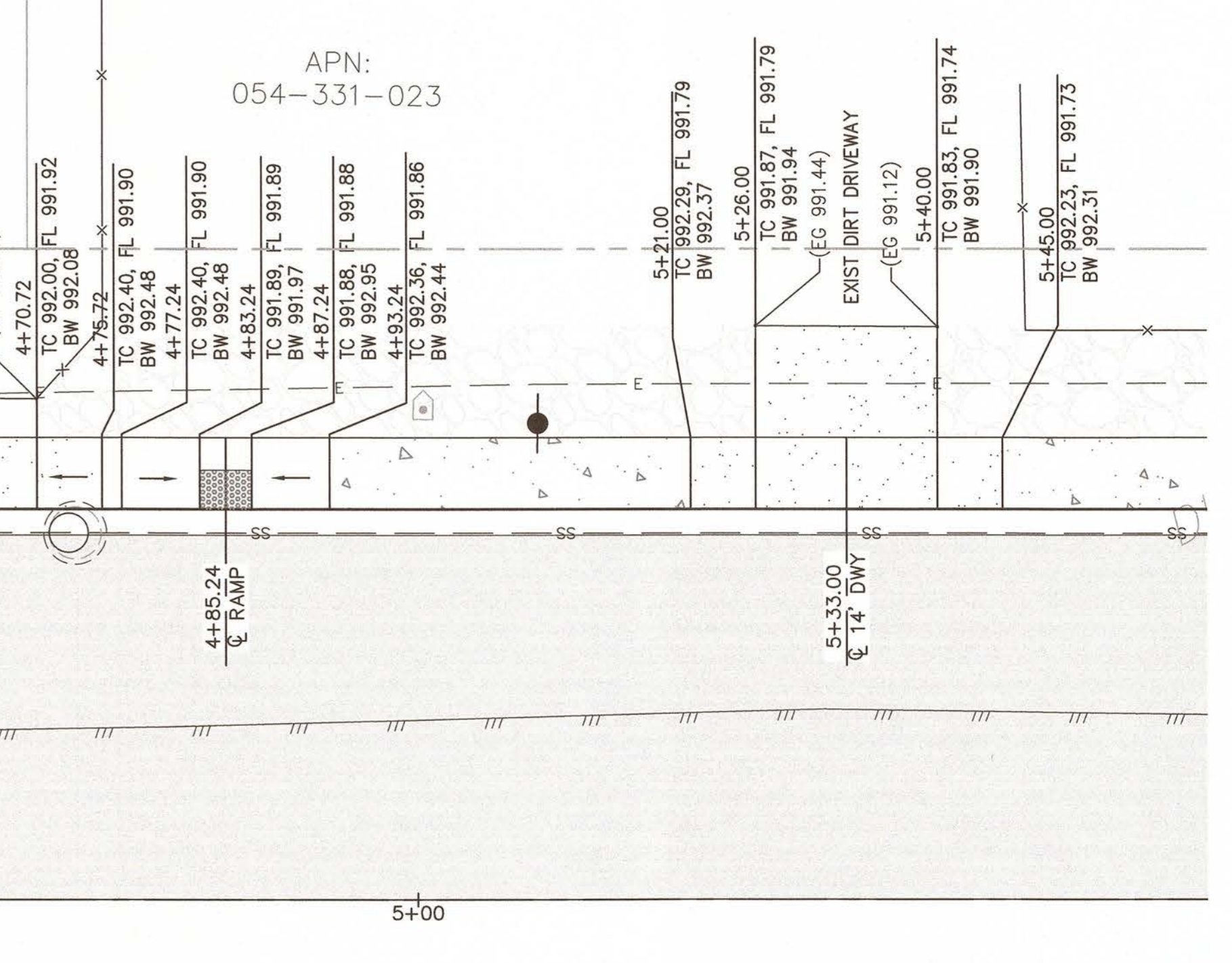


DRIVEWAY 1



DRIVEWAY 2

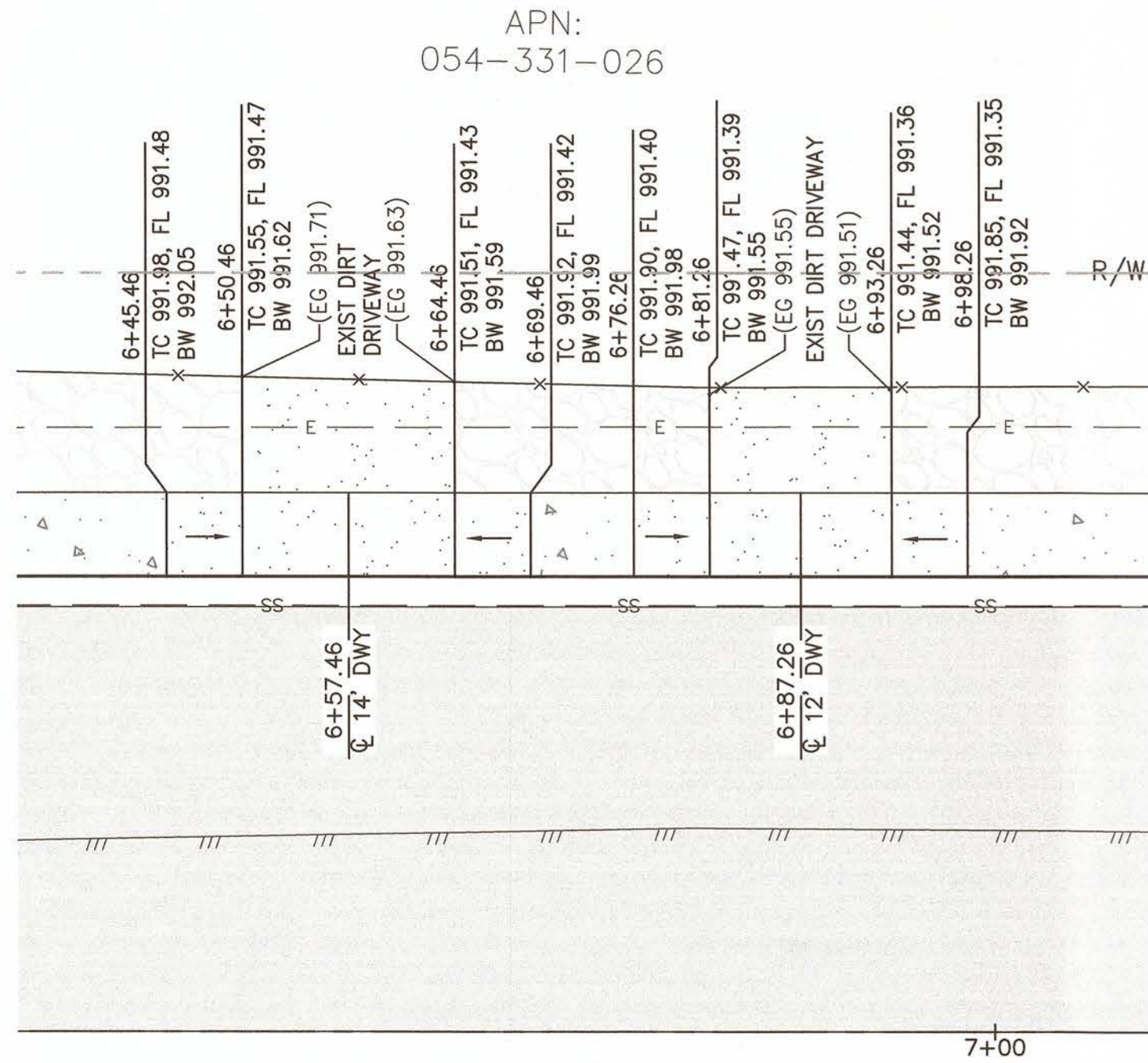
DRIVEWAY 3



PEDESTRIAN RAMP 2

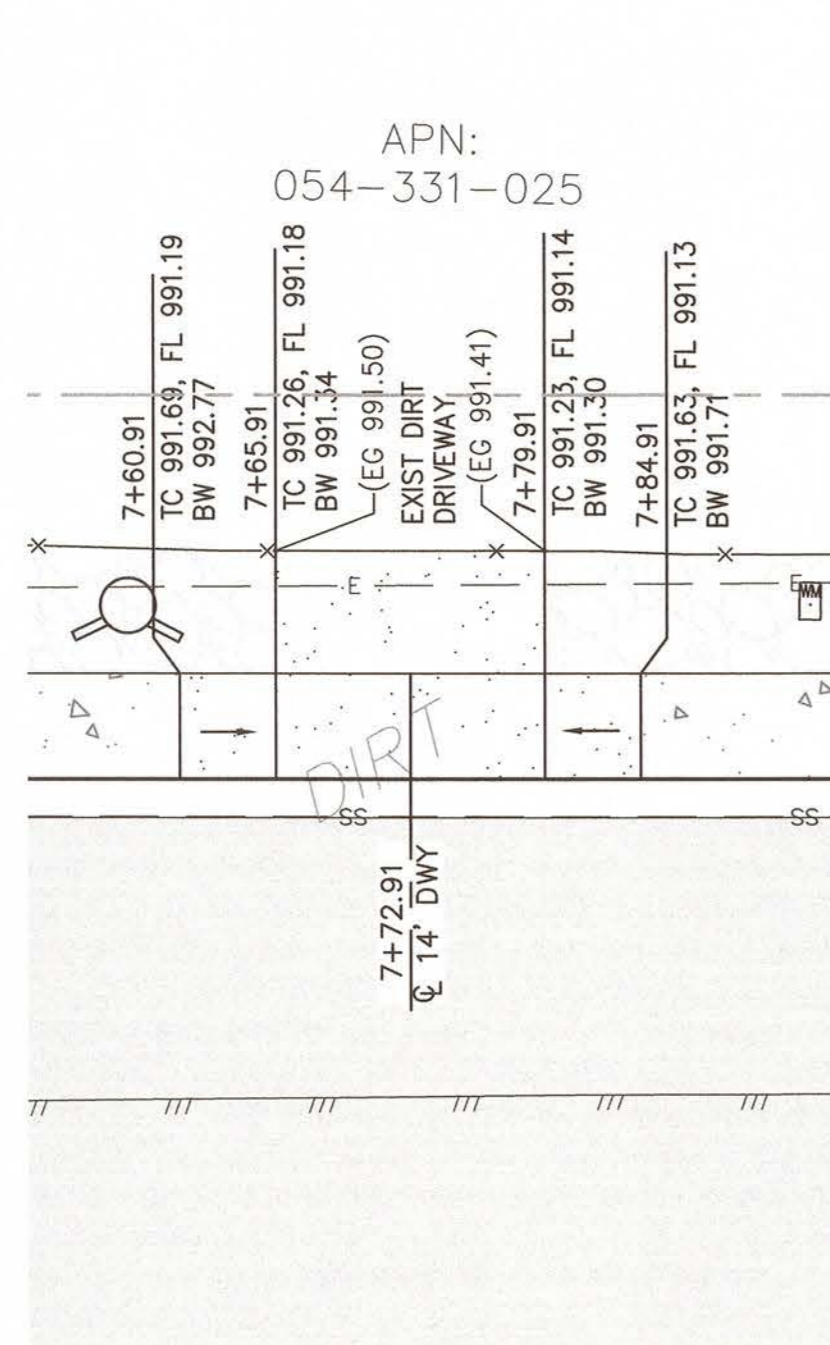
DRIVEWAY 4

CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB. (SEE "CONCRETE DRIVEWAY" DETAIL ON "CIVIL DETAILS No.2" SHEET)

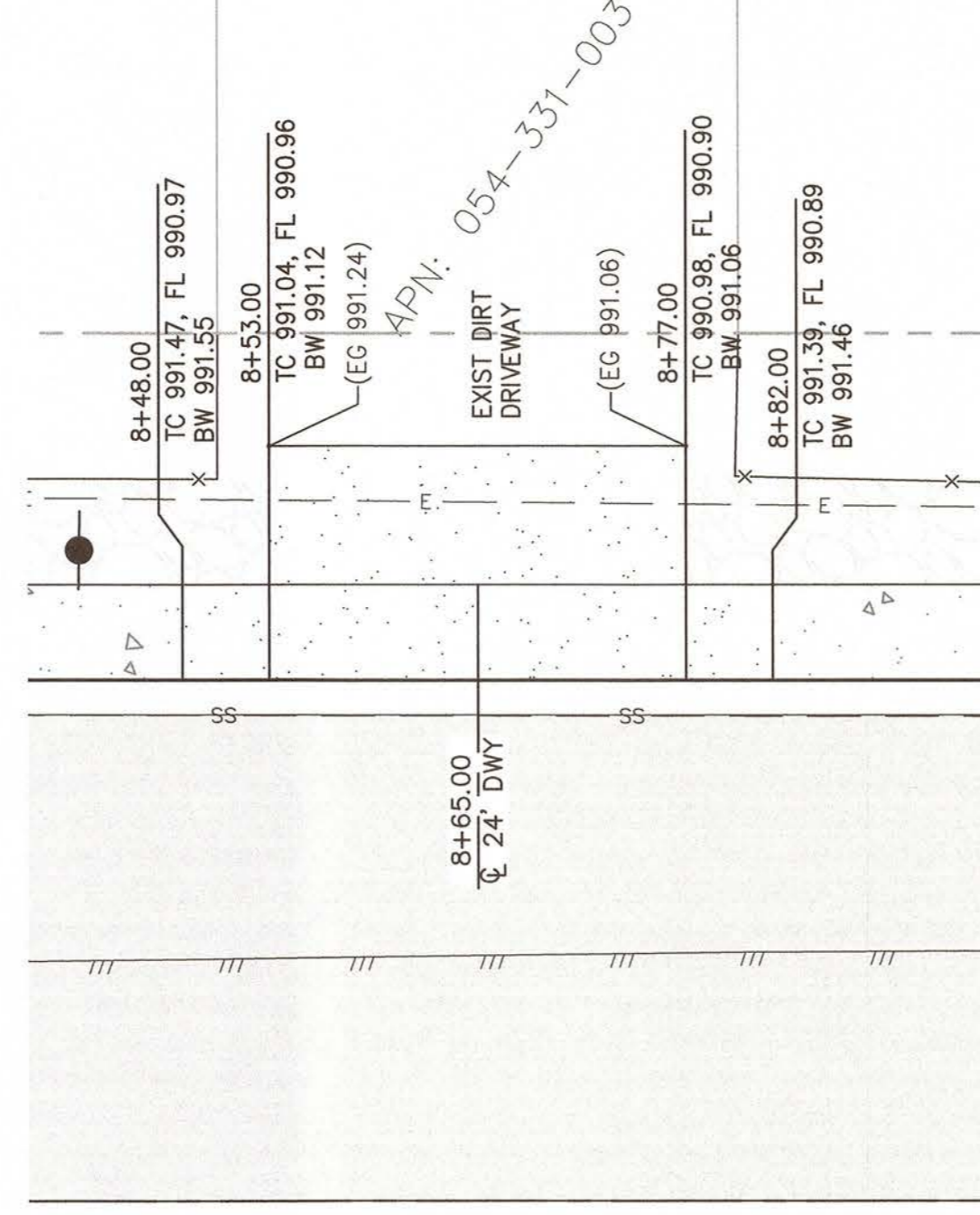


DRIVEWAY 5

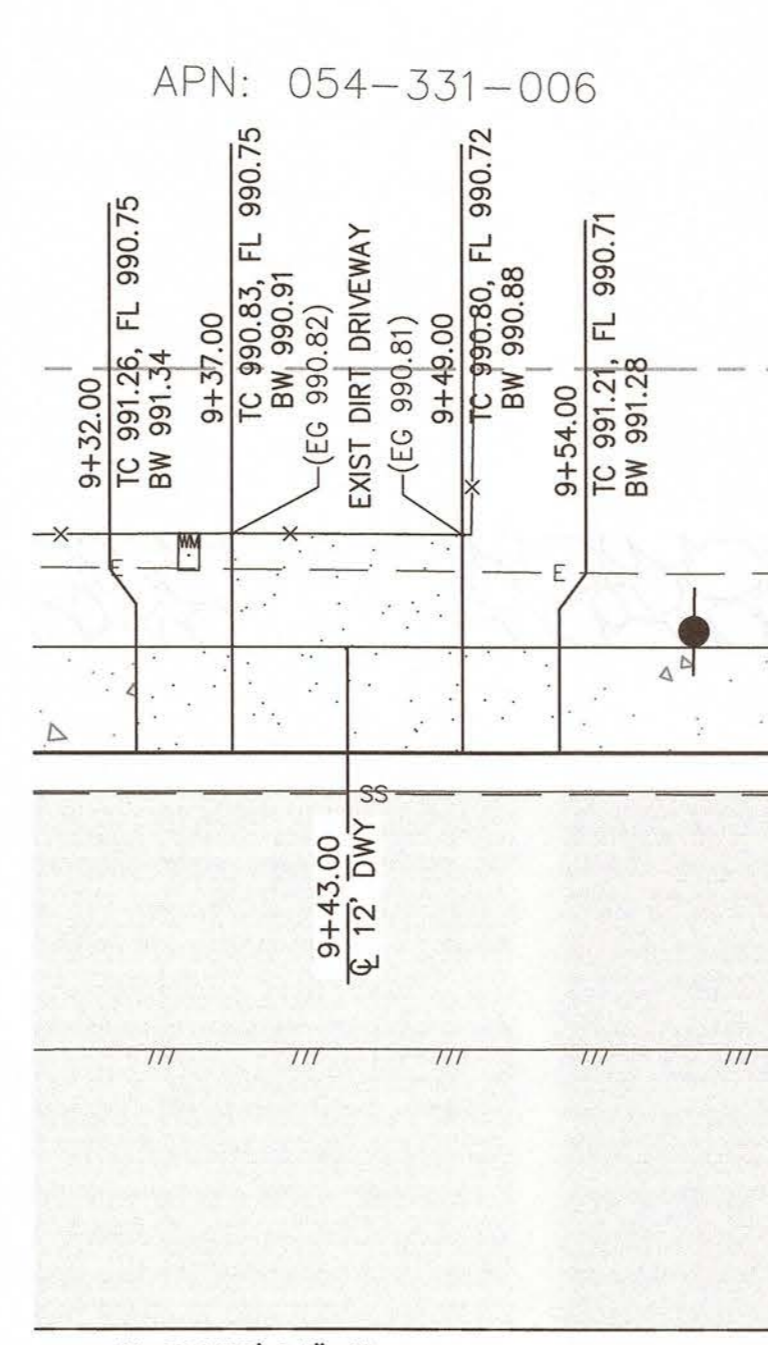
DRIVEWAY 6



DRIVEWAY 7



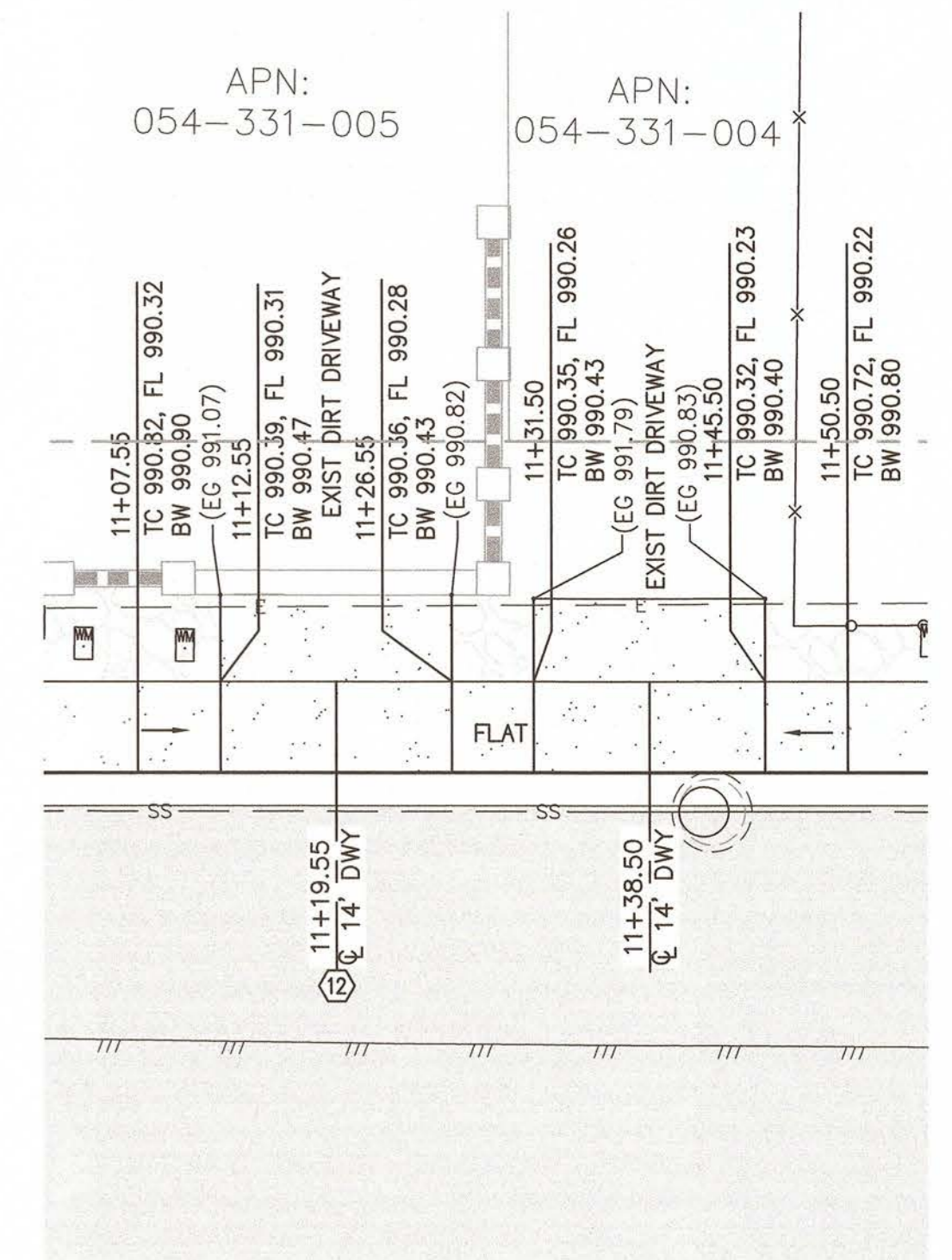
DRIVEWAY 8



DRIVEWAY 9



**DRIVEWAY 10
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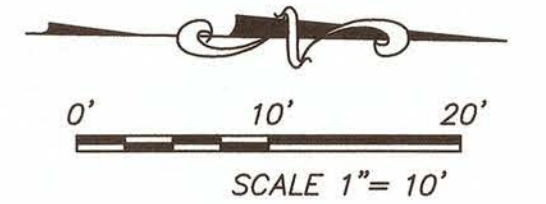


DRIVEWAY 11 & 11a

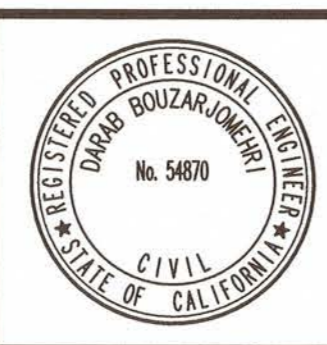
NV5

15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM

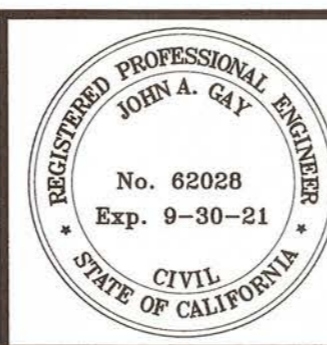
PLAN
SCALE: 1"=20'



REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/9/21
DATE

COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

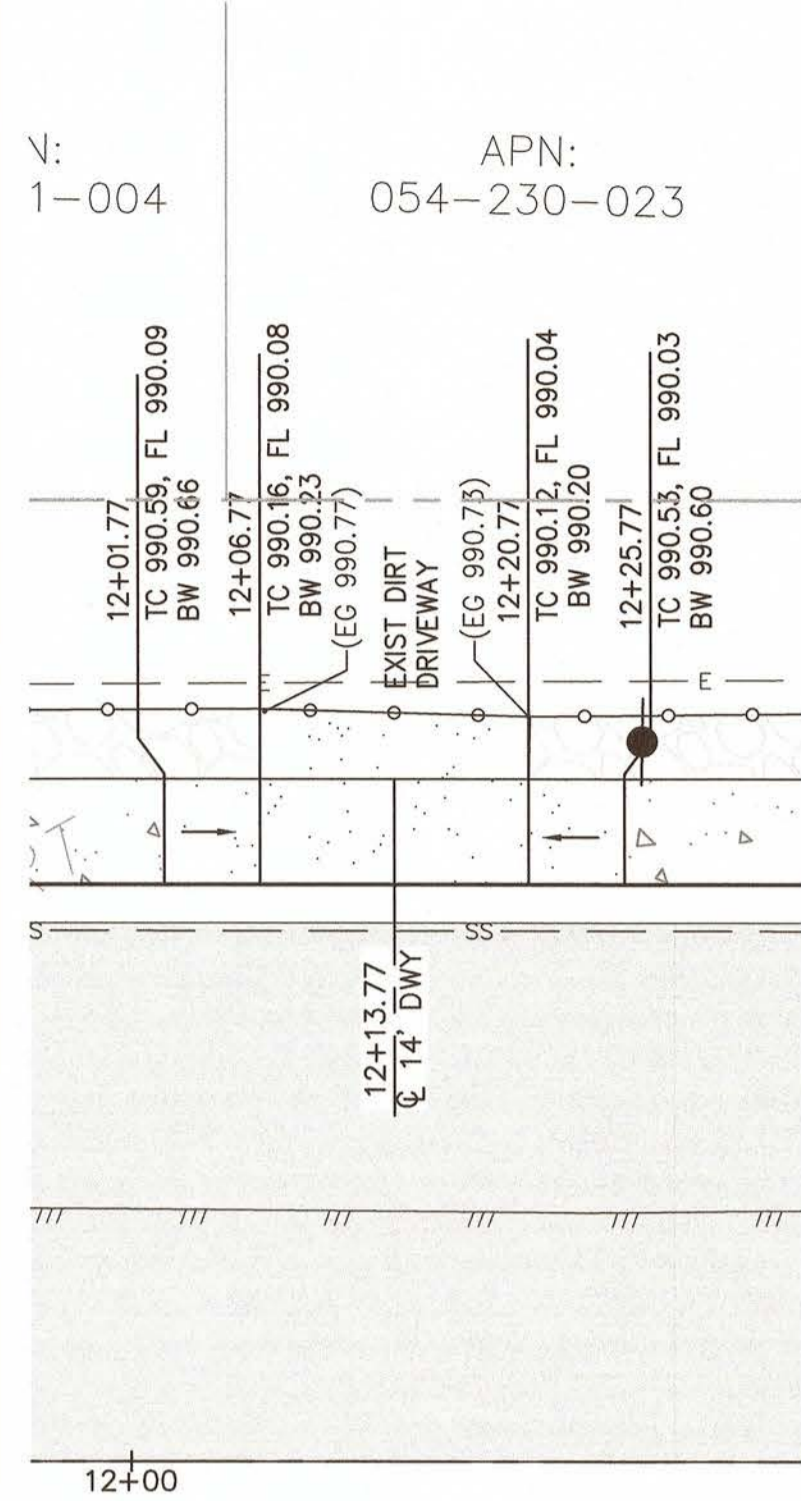
HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

DRIVEWAY AND PEDESTRIAN
RAMP DETAILS No. 1
REFERENCE R-985
SHEET 13 OF 26

N:\20-0000787\Cadd\Civil\787 DWY Details.dwg | Scan-02-2021-13-26

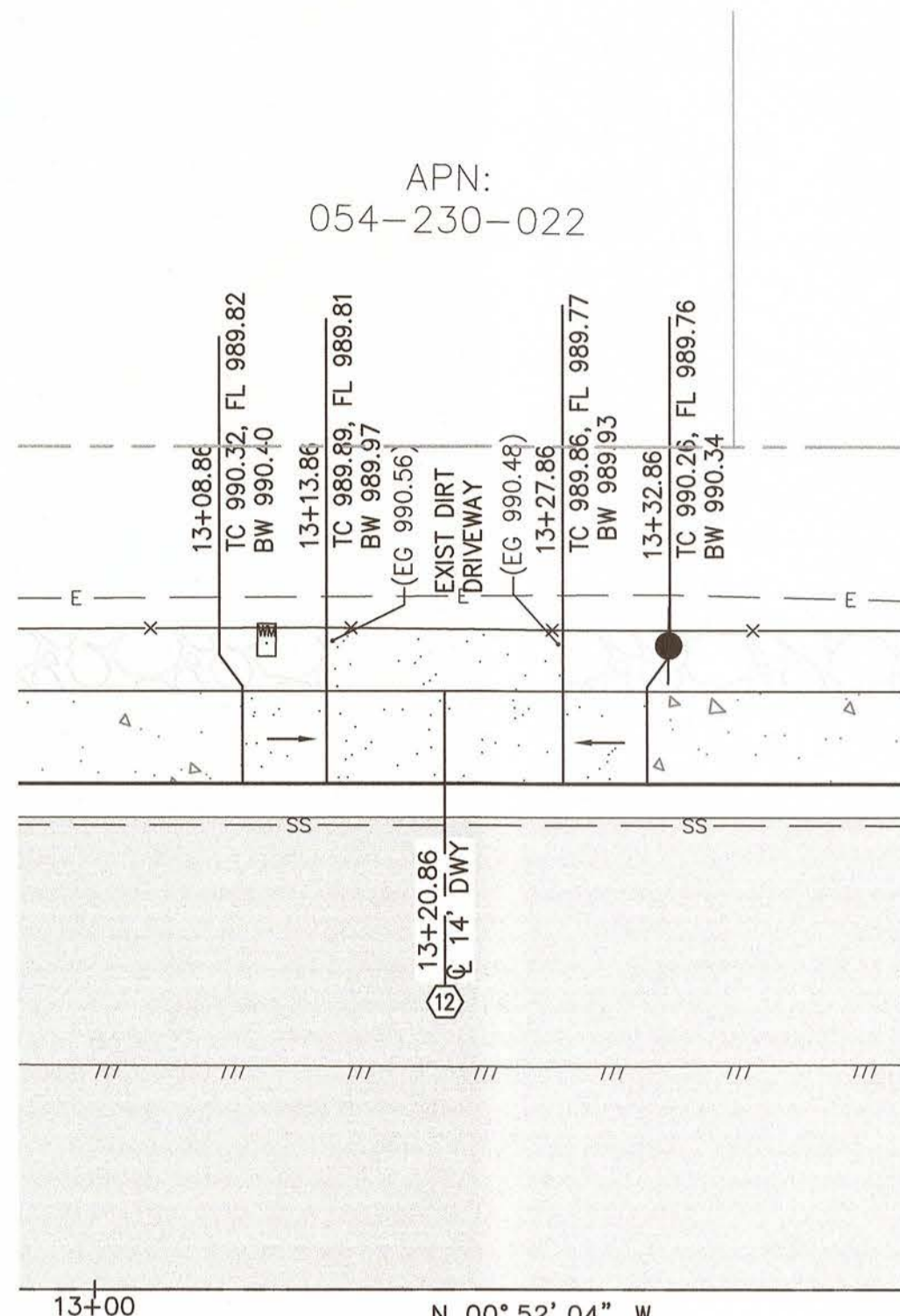
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APN:
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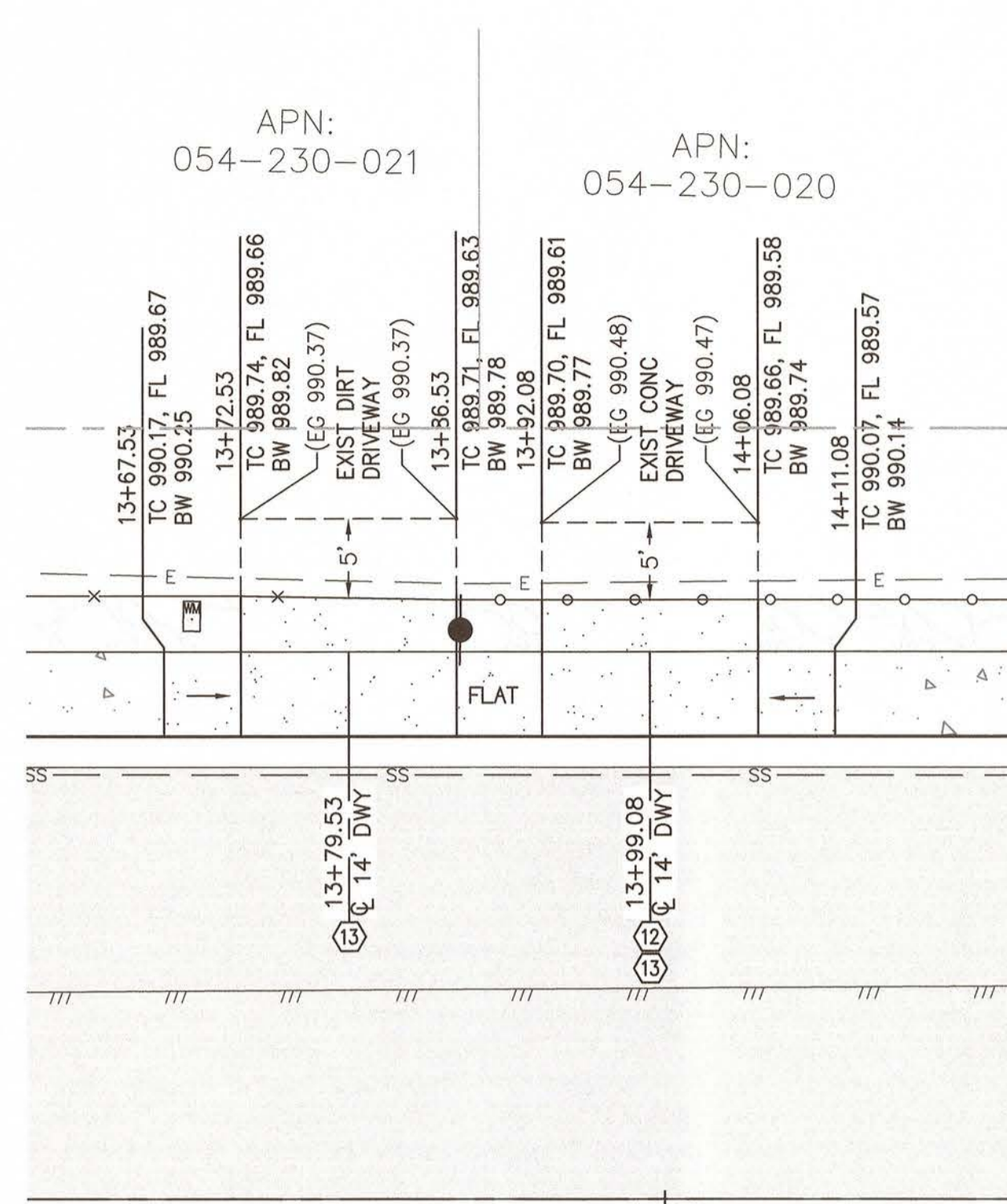
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APN:
054-230-022



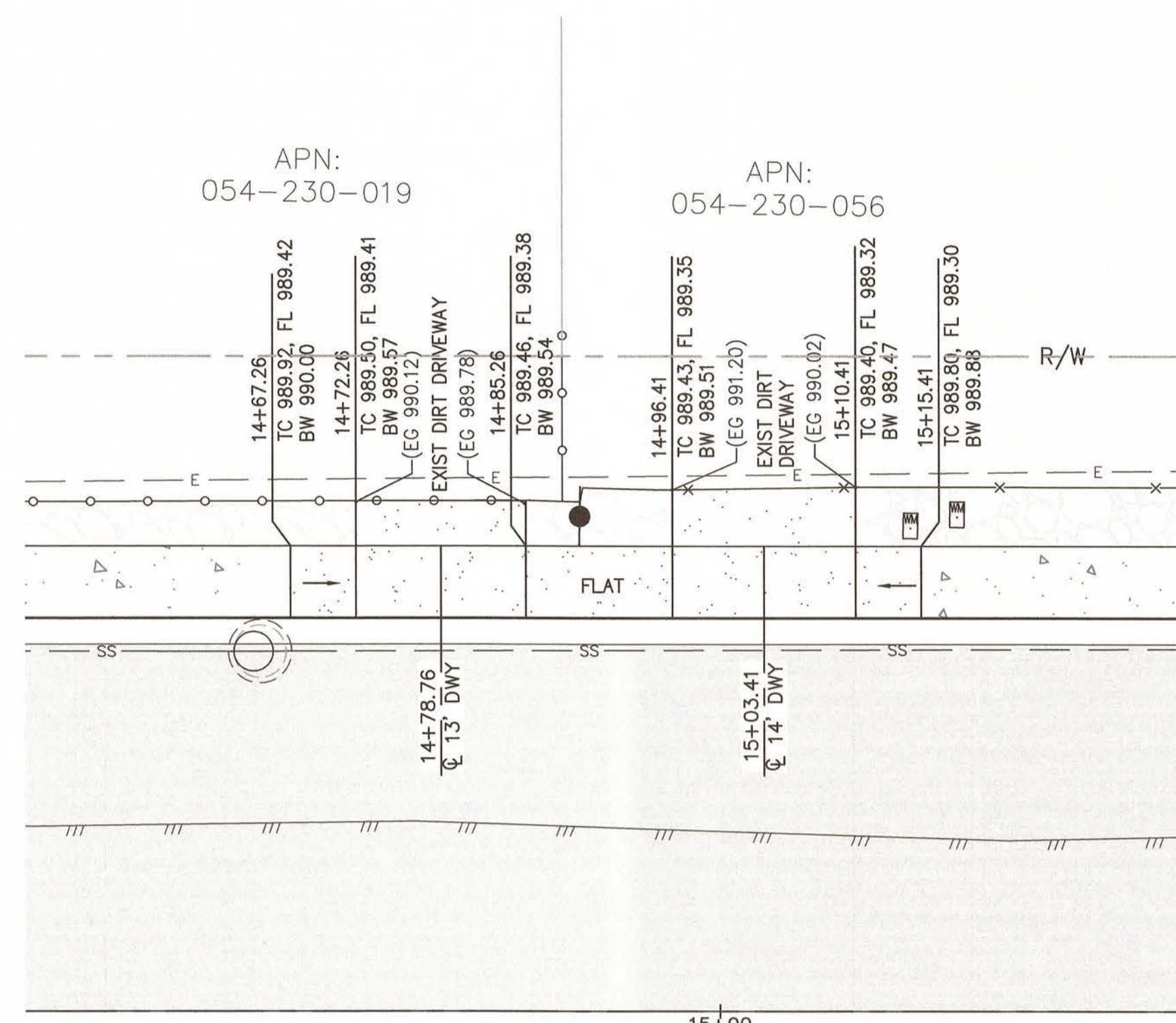
DRIVEWAY 13

APN:
054-230-021



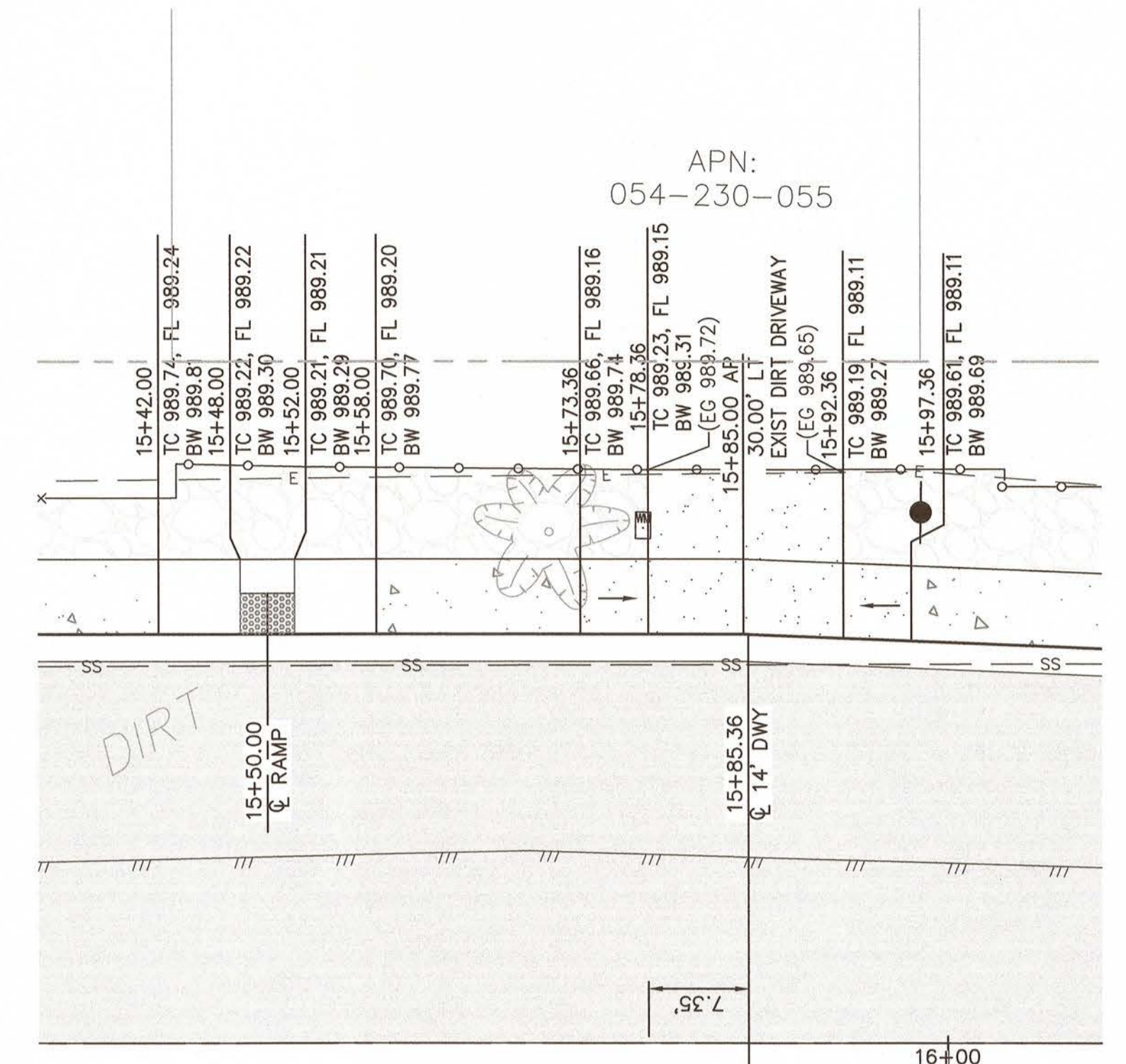
DRIVEWAY 14 & 15

APN:
054-230-019



DRIVEWAY 16 & 17

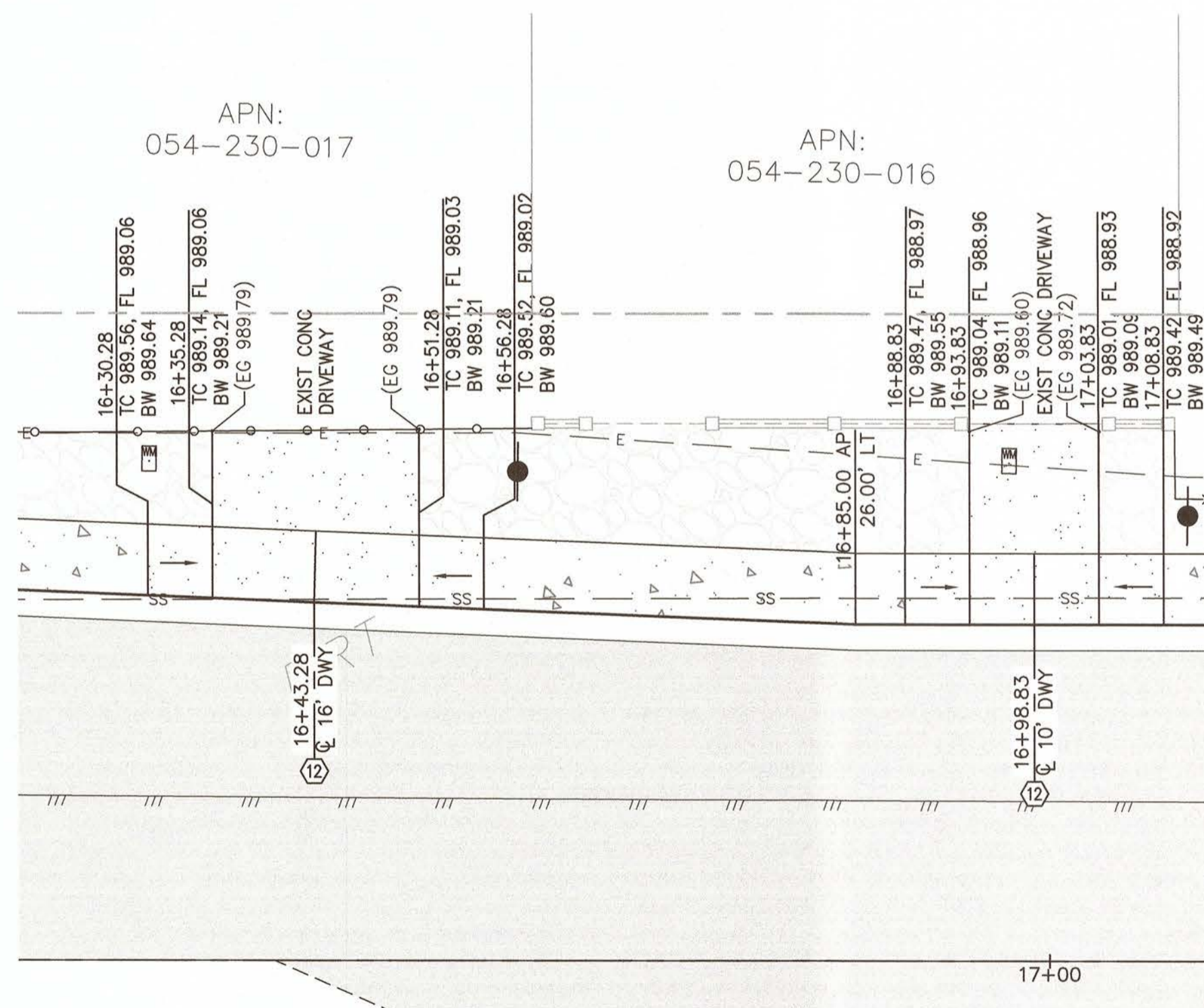
APN:
054-230-055



PEDESTRIAN RAMP 3
DRIVEWAY 18

- (12) CONNECT EXISTING CONCRETE DRIVEWAYS TO THE PROPOSED DRIVEWAY SLAB BY DRILL AND EPOXY ONE ROW OF 16" LONG #4 DOWELS AT 16" O.C. SPACING HORIZONTALLY. INSTALL DOWELS INTO THE EXISTING DRIVEWAY SLAB PRIOR TO FORMING SLAB AND CASTING THE PROPOSED DRIVEWAY SLAB. (SEE "CONCRETE DRIVEWAY" DETAIL ON "CIVIL DETAILS No.2" SHEET)
- (13) SEE 5' ENCROACHMENT DRIVEWAY CONNECTION DETAIL, SHEET 8

APN:
054-230-017

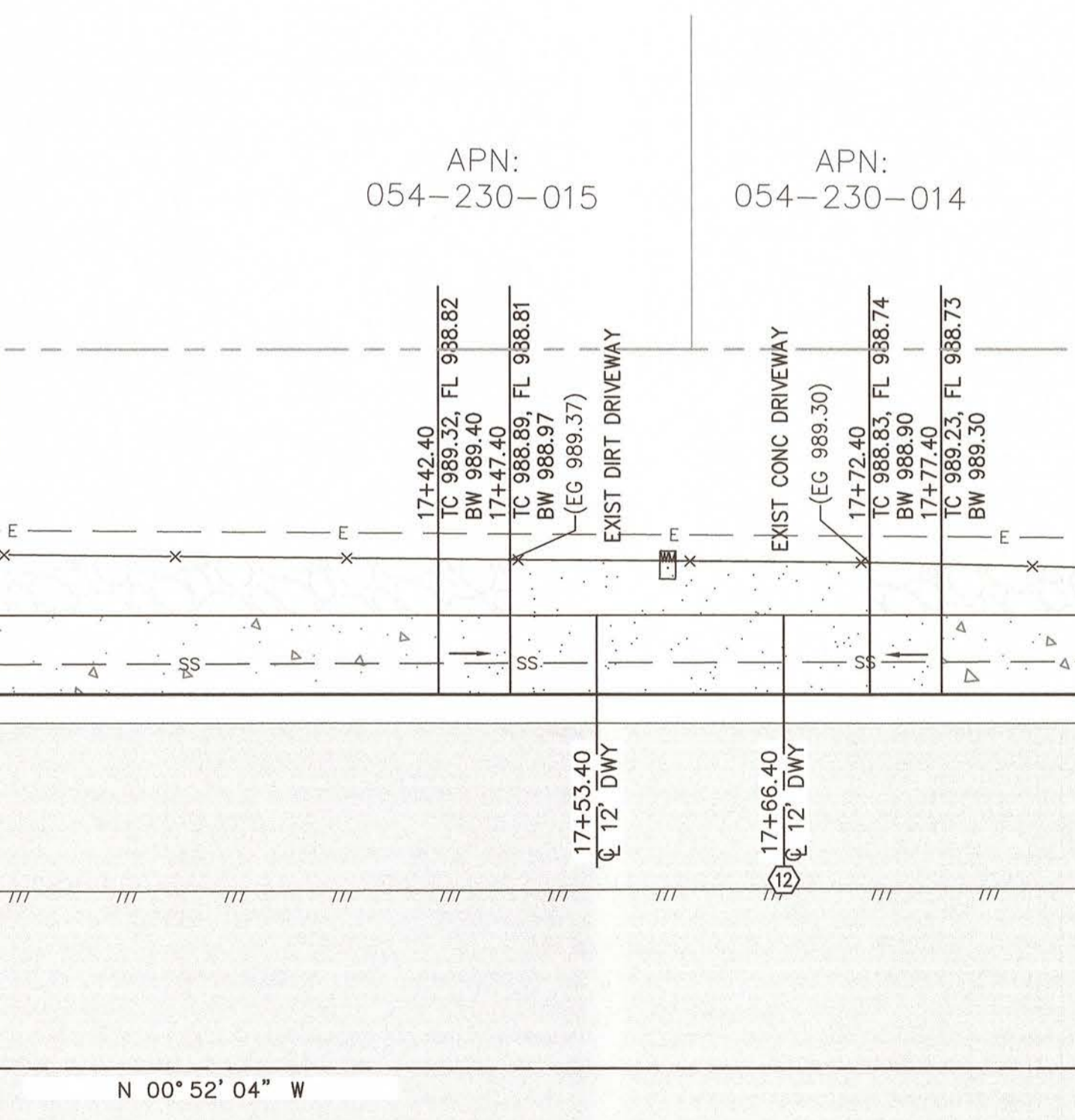


DRIVEWAY 19

DRIVEWAY 20
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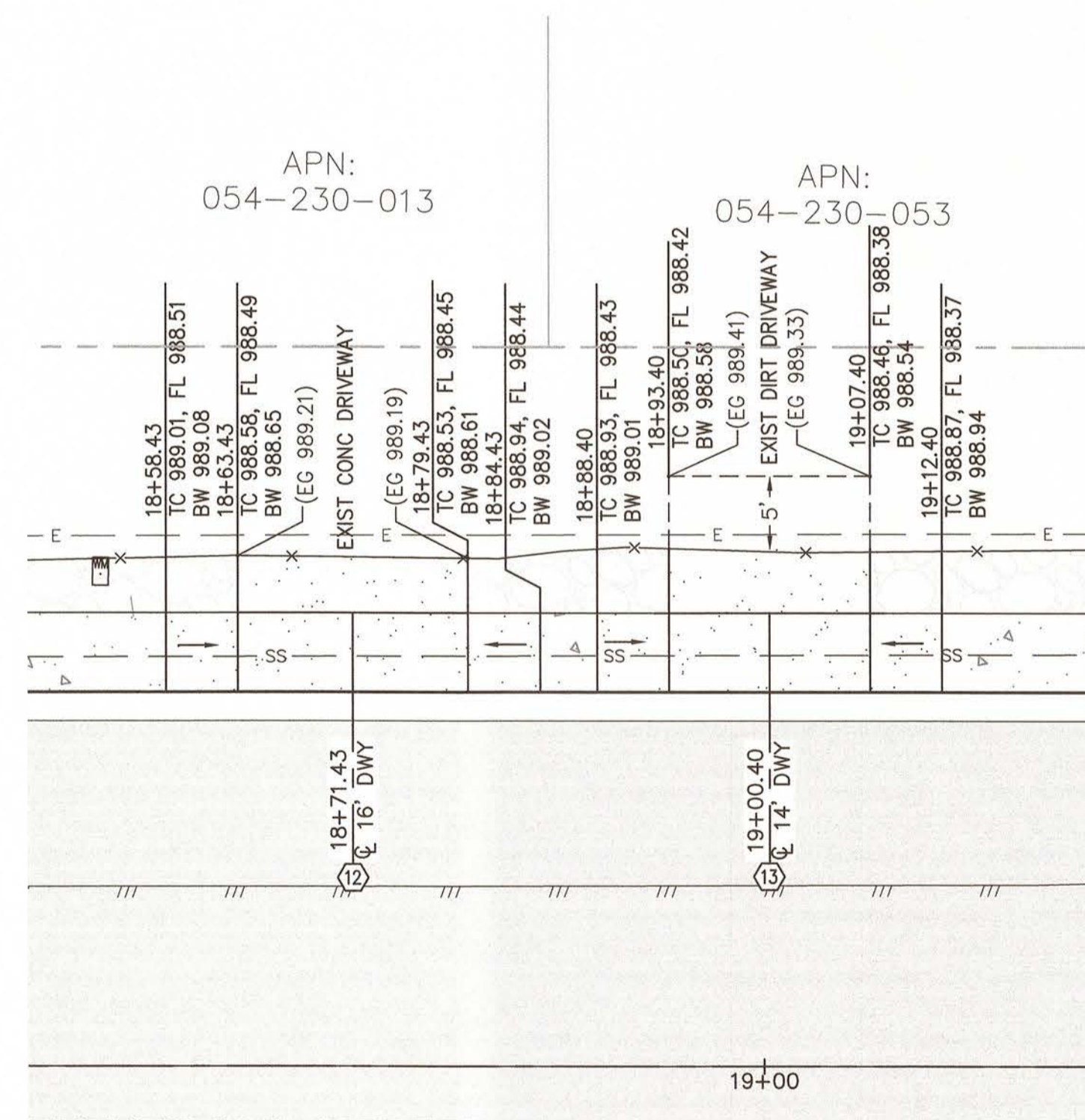
DRIVEWAY 21

APN:
054-230-015



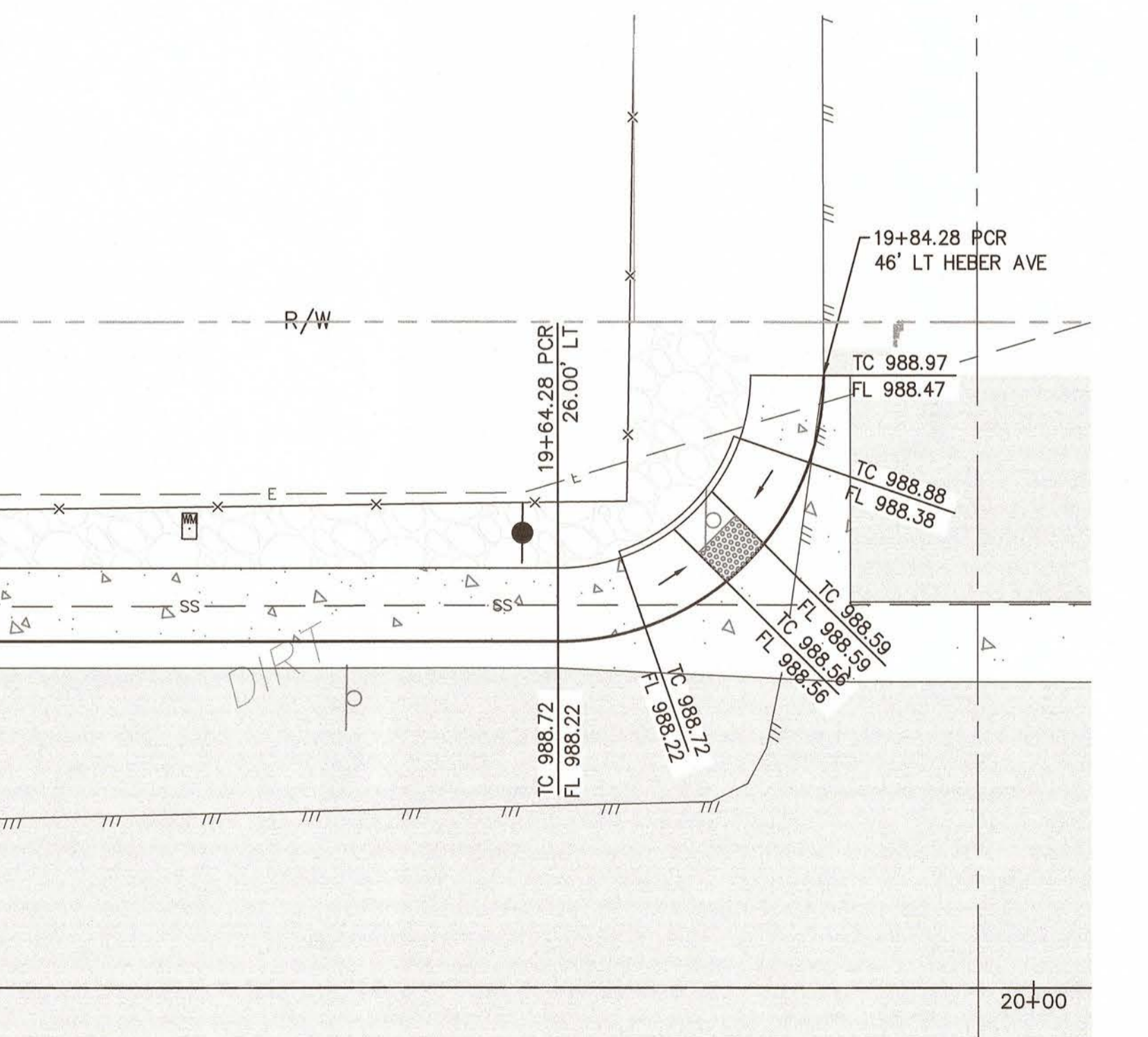
DRIVEWAY 22 & 23

APN:
054-230-013



DRIVEWAY 24 & 25

APN:
054-230-053

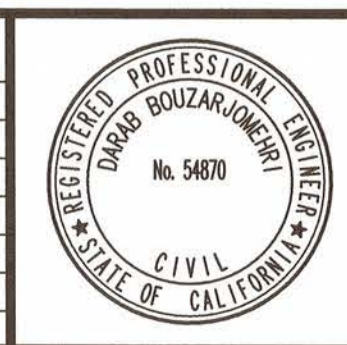


PEDESTRIAN RAMP 4



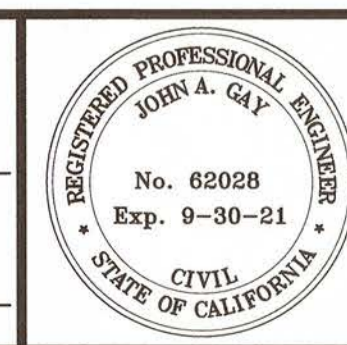
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM

REVISION	DATE	COMMENTS



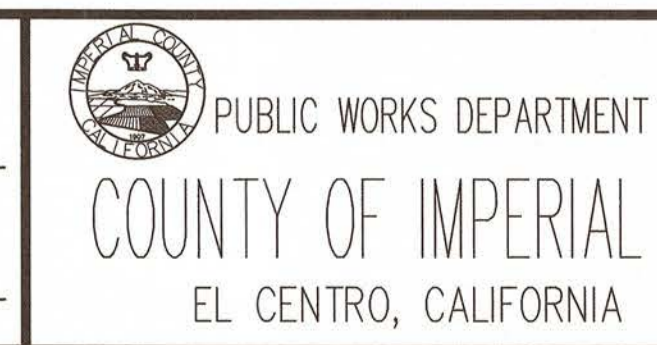
PREPARED UNDER THE DIRECT SUPERVISION OF:

 DARAB BOUZARJOMEHRI, P.E.
 NV5
 3/17/2021 DATE
 54870 R.C.E. No.
 6/30/22 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

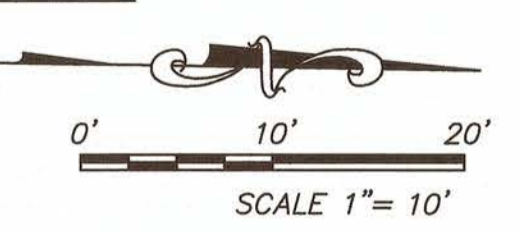
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 9/9/21 DATE
 62028 R.C.E. No.
 9/30/21 REG. EXP.



DATE 9/2/2021
 DRAWN SD
 SCALE AS SHOWN
 CHECKED DB

HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

DRIVEWAY AND PEDESTRIAN
 RAMP DETAILS No. 2
 REFERENCE R-985
 SHEET 14 OF 26



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EROSION CONTROL NOTES:

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CALTRANS, "CONSTRUCTION SITE MONITORING PROGRAM GUIDANCE MANUAL" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S AND, IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST CONSTRUCTION TREATMENT CONTROL BMP'S.
2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLETS. INLET PROTECTION IN THE PUBLIC RIGHT OF WAY MAY BE TEMPORARILY REMOVED WHERE IT IS PRONE TO FLOODING PRIOR TO A RAIN EVENT AND REINSTALLED AFTER RAIN IS OVER.
3. ALL CONSTRUCTION BMPS SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES AND/OR STOP WORK NOTICES.
6. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.
7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPS THAT ARE ACCEPTABLE TO THE ENGINEER AND AS INDICATED IN THE SWPPP/WPCP.
8. THE CONTRACTOR OR QUALIFIED PERSON SHALL CLEAR DEBRIS, SILT AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND AFTER EACH RAIN EVENT.
9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCHARGE, AS SOON AS PRACTICAL, ANY AND ALL WASTE MATERIAL, SEDIMENT AND DEBRIS FROM EACH NON STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPS WHEN RAIN IS IMMINENT.
11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR ROUND.
12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO GRADING INACTIVITY OR UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE RESIDENT ENGINEER.
15. UPON NOTIFICATION BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL ARRANGE FOR MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPS RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.
16. THE CONTRACTOR AND/OR QUALIFIED PERSON SHALL CONDUCT VISUAL INSPECTIONS DAILY AND MAINTAIN ALL BMPS AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMPS SHALL BE CONDUCTED BEFORE, DURING AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMPS AS SOON AS POSSIBLE AS SAFETY ALLOWS.
17. DISTURBED SOILS SUCH AS THOSE FROM TRENCH EXCAVATION ARE REQUIRED TO BE HAULED AWAY, BACKFILLED INTO THE TRENCH, AND/OR COVERED (E.G., METAL PLATES, PAVEMENT, PLASTIC COVERS OVER SPOIL PILES) AT END OF THE CONSTRUCTION DAY.
18. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES. QUALIFIED PERSONNEL MAY ADJUST/MODIFY BMPS PER FIELD CONDITIONS.

STANDARD DRAWINGS & GUIDANCE DOCUMENTS

1. CALTRANS CONSTRUCTION SITE MONITORING PROGRAM GUIDANCE MANUAL (AUGUST 2013 EDITION)
2. CALTRANS CONSTRUCTION SITE BMP MANUAL (MAY 2017 EDITION)
3. CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK.

CONSTRUCTION NOTES

1. INSTALL SILT FENCE. SEE BMP SC-1 FOR INSTALLATION INSTRUCTIONS.
2. INSTALL FIBER ROLLS. SEE BMP SC-5 FOR INSTALLATION INSTRUCTIONS.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE BMP TC-1 FOR INSTALLATION INSTRUCTIONS.
4. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL AREA. SEE BMPS WM-1 THRU WM-10 FOR INSTALLATION INSTRUCTIONS AND PROCEDURES.
5. INSTALL GRAVEL BAG CHECK DAMS TO SLOW SHEET FLOW AND ALLOW SEDIMENT TO SETTLE. SEE BMP SC-6 FOR INSTALLATION INSTRUCTIONS.
6. MAINTAINING CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.

NOTES:

1. BMP FACT SHEETS CAN BE FOUND IN APPENDIX I OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT OR IN THE CASQA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK -- CONSTRUCTION (NOVEMBER 2009).
2. QSP TO RECOMMEND ADDITIONAL BMPS AND UPDATE PLAN DURING CONSTRUCTION ACCORDING TO SITE CONDITIONS.
3. QSD SHALL BE NOTIFIED IF THERE IS ADDITION OF STAGING AREA(S) NOT WITHIN THE LIMITS OF CONSTRUCTION. AMENDMENT SHALL BE NOTED.

LEGEND

THE FOLLOWING COMPONENTS WILL CHANGE AS CONSTRUCTION PROGRESSES. THE SWPPP MAP MUST BE UPDATED IN THE FIELD TO REFLECT ACTUAL SITE CONDITIONS.

DESCRIPTION	CASQA STD. DWG.	SYMBOL
SURFACE FLOW DIRECTION		→
STORM WATER SAMPLING & MONITORING LOCATION		▲
STORM WATER RUN-ON LOCATION		★
LIMITS OF CONSTRUCTION		--- (Red dashed line)
SURFACE IMPROVEMENTS		□
SILT FENCE	① SE-1	— □ — □ —
FIBER ROLLS	② SE-5	— FR — FR —
STABILIZED CONSTRUCTION ENTRANCE	③ TC-1	⊙ ⊙ ⊙ ⊙ ⊙
WASTE MANAGEMENT & MATERIAL DELIVERY/STORAGE	④ WM-1	⊞ ⊞ ⊞ ⊞ ⊞
GRAVEL BAG BERM	⑤ SE-6	— ⊞ — ⊞ — ⊞ —
CONCRETE WASHOUT FACILITY	⑥	□



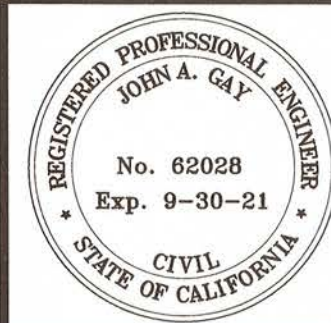
15092 AVENUE OF SCIENCE, SUITE 100
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REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:

 DARAB BOUZARJOMEHRI, P.E.
 NVS
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COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 9/30/21 DATE
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PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

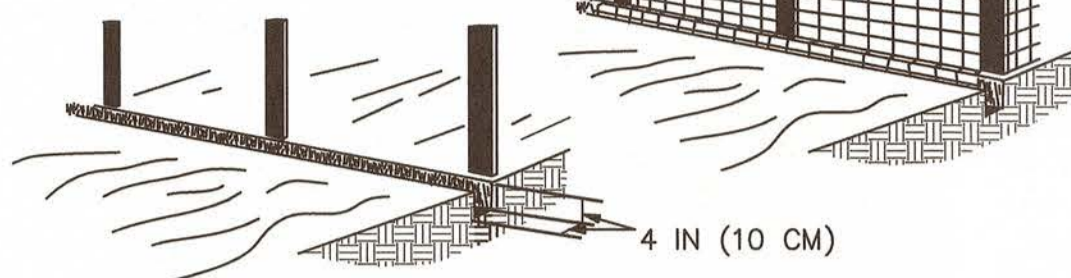
DATE 9/2/2021
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HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

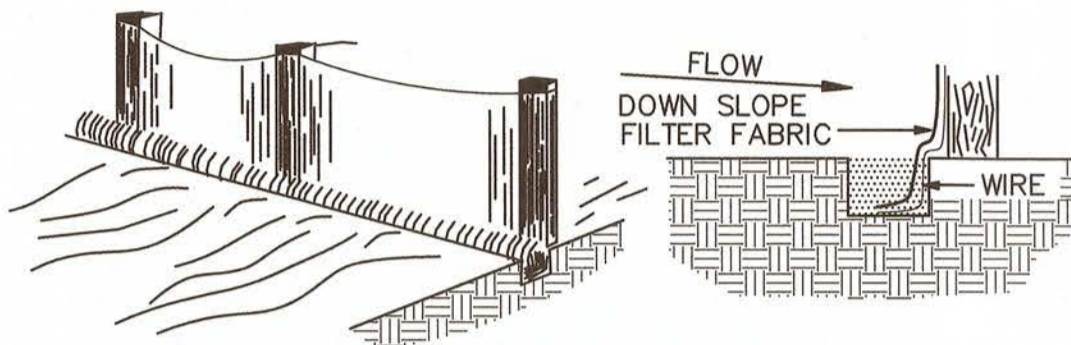
EROSION CONTROL NO. 1
 REFERENCE R-985
 SHEET 15 OF 26

No. 190-00007877 (Cont'd) (Civil) 787 EC-Atural (Rev.) 02-2021-1-1-26

1. SET POSTS AND EXCAVATE A 4 BY 4 IN (10 BY 10 CM) TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS ON UPSLOPE SIDE.



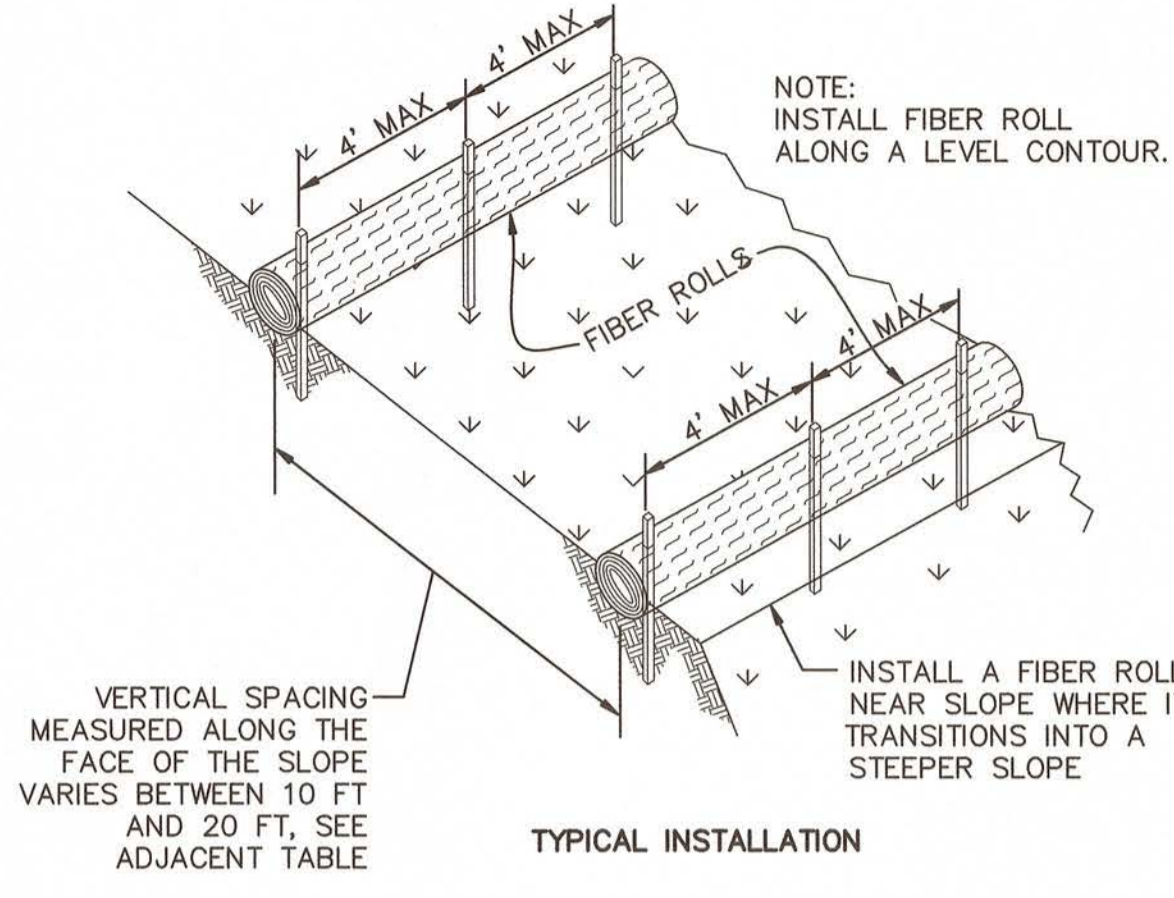
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



NOTES

1. SILT FENCE TO BE LOCATED WITHIN 5 FEET OF TOP OR TOE OF SLOPE WHERE APPLICABLE.
2. SILT FENCE WILL TERMINATE 1 FOOT ON EITHER SIDE OF RIP RAP ENERGY DISSIPATORS.

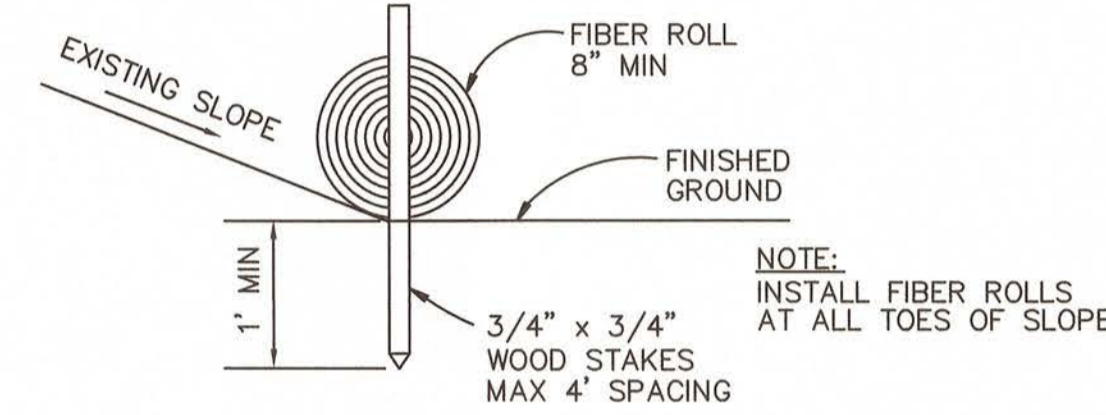
1 **SILT FENCE DETAIL**
NO SCALE SC-1



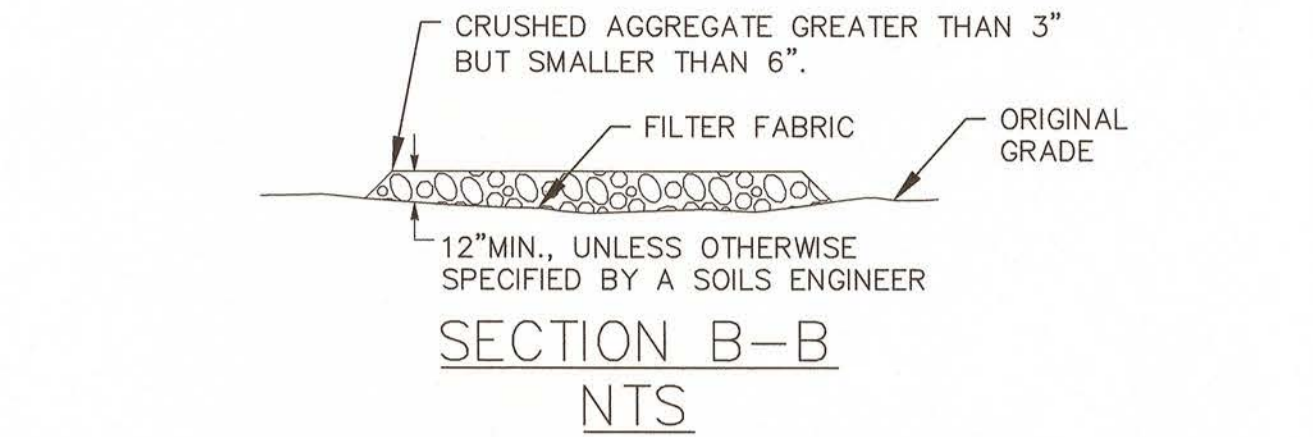
NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR.

VERTICAL SPACING MEASURED ALONG THE FACE OF THE SLOPE VARIES BETWEEN 10 FT AND 20 FT, SEE ADJACENT TABLE

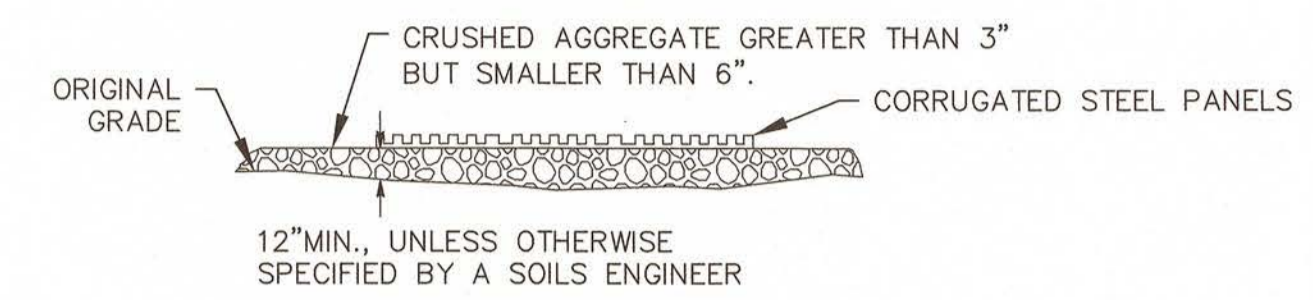
TYPICAL INSTALLATION



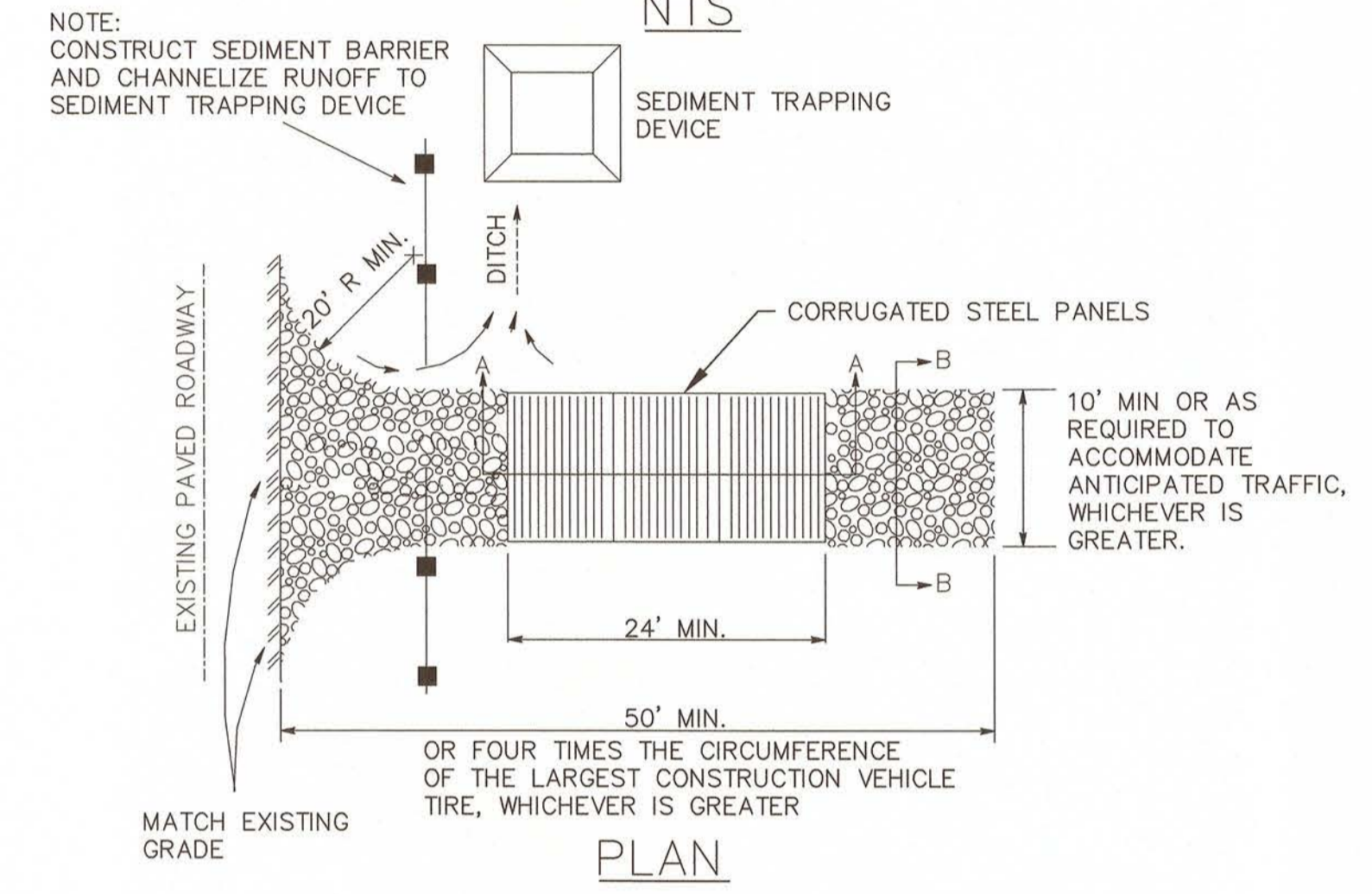
2 **FIBER ROLL**
NO SCALE SC-5



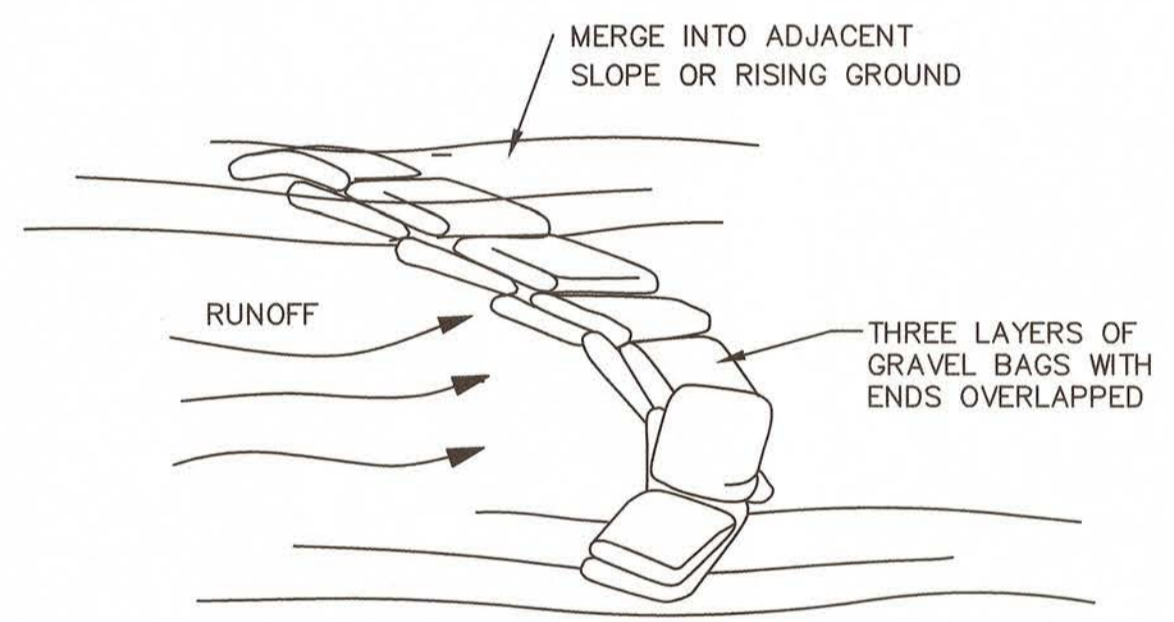
SECTION B-B
NTS



SECTION A-A
NTS



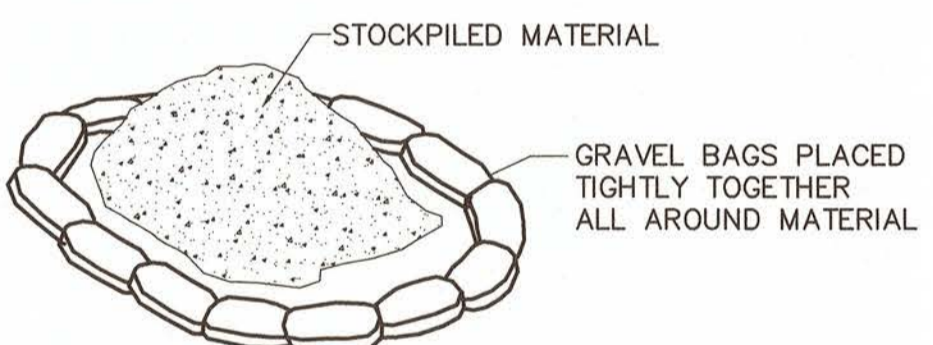
3 **STABILIZED CONSTRUCTION ENTRANCE**
NO SCALE TC-1



GRADE INTERVAL	
LESS THAN 2%	AS REQUIRED/200' MAX.
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET

NOTE:
PLACE GRAVEL BAGS PER INTERVAL SHOWN ABOVE AND AS INDICATED ON PLAN.

5 **GRAVEL BAG BERM**
NO SCALE SC-6



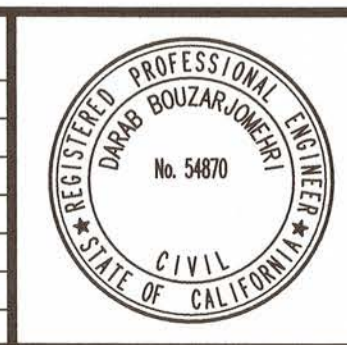
1. DIRT AND OTHER CONSTRUCTION RELATED MATERIALS WILL BE PLACED ON-SITE AND MUST BE CONTAINED WITH GRAVEL BAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORM DRAIN SYSTEM.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON-SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.
3. STOCKPILES MUST BE COVERED AND SECURED FROM WIND AND RAIN AT THE END OF EACH DAY AND PRIOR TO A FORECASTED RAIN EVENT.

4 **STOCKPILE MANAGEMENT**
NO SCALE WM-3

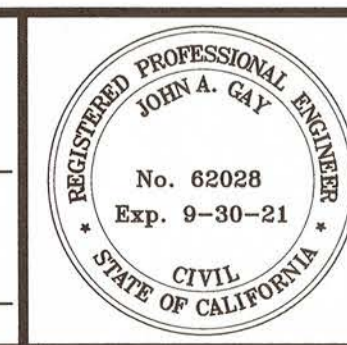
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REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Darab Bouzarjomehri
DARAB BOUZARJOMEHRI, P.E.
NV5
3/17/2021
DATE



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:
John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER
9/30/21
DATE

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE 9/2/2021
DRAWN SD
SCALE AS SHOWN
CHECKED DB

HEBER AVENUE ROAD WIDENING
AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

EROSION CONTROL NO. 2
REFERENCE R-985
SHEET 16 OF 26

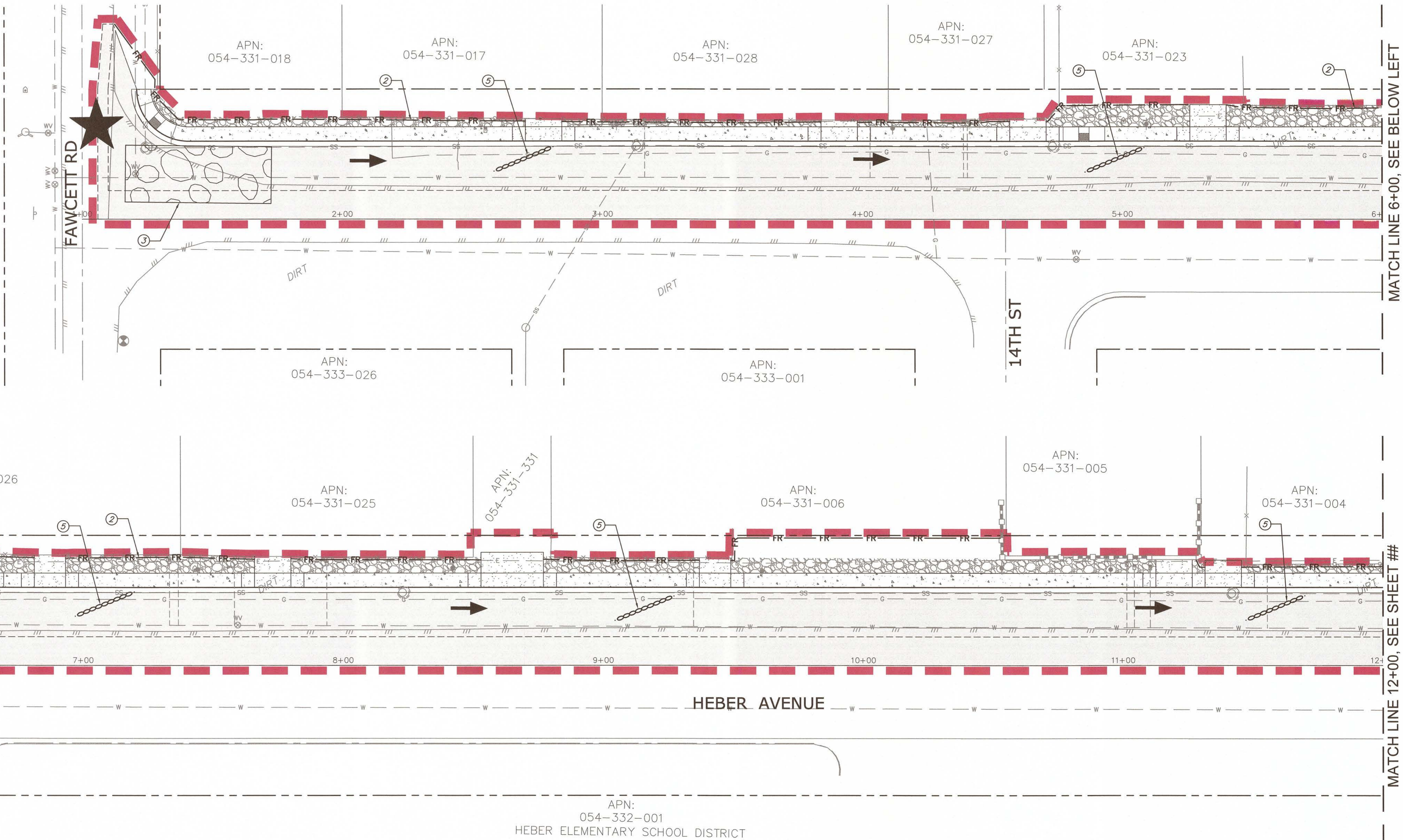
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GENERAL NOTES:

1. AS CONSTRUCTION PROGRESSES, IT IS THE RESPONSIBILITY OF THE QSP TO UPDATE THIS WATER POLLUTION CONTROL PLAN TO REFLECT CURRENT SITE CONDITIONS AND BMP'S.
2. ACCORDING TO PERMIT PART 2.2, DISCHARGERS SHALL PROVIDE EFFECTIVE SOILS COVER FOR INACTIVE AREAS AND FILL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE DEFINED AS AREAS THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST FOURTEEN(14) DAYS.
3. THE CONTRACTOR SHALL MARK ON MAP WHEN & WHERE SOIL COVERAGE (HYDRO MULCH, SOIL BINDER, OR EQUIVALENT) IS APPLIED AS NEEDED DURING THE CONSTRUCTION OPERATION.
4. CONTRACTOR TO INSTALL FENCES PRIOR TO CONSTRUCTION.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE INSTALLED PRIOR TO ANY WORK TAKING PLACE.
6. CONTRACTOR TO SIZE STAGING AREAS BASED ON USE, STOCKPILE, AND STORAGE REQUIREMENTS PER PROJECT PHASE.

PROJECT RISK LEVEL PER GENERAL PERMIT STORMWATER PERMIT:

- RISK LEVEL 1
- RISK LEVEL 2
- RISK LEVEL 3



MATCH LINE 6+00, SEE ABOVE RIGHT

MATCH LINE 12+00, SEE SHEET #

LEGEND

THE FOLLOWING COMPONENTS WILL CHANGE AS CONSTRUCTION PROGRESSES. THE SWPPP MAP MUST BE UPDATED IN THE FIELD TO REFLECT ACTUAL SITE CONDITIONS.

DESCRIPTION	CASQA STD. DWG.	SYMBOL
SURFACE FLOW DIRECTION		→
STORM WATER SAMPLING & MONITORING LOCATION		▲
STORM WATER RUN-ON LOCATION		★
LIMITS OF CONSTRUCTION		—
SURFACE IMPROVEMENTS		□
SILT FENCE	① SE-1	—
FIBER ROLLS	② SE-5	— FR — FR —

DESCRIPTION	CASQA STD. DWG.	SYMBOL
STABILIZED CONSTRUCTION ENTRANCE	③ TC-1	▨
WASTE MANAGEMENT & MATERIAL DELIVERY/STORAGE	④ WM-1	▨
GRAVEL BAG BERM	⑤ SE-6	—
CONCRETE WASHOUT FACILITY		□

CONSTRUCTION NOTES:

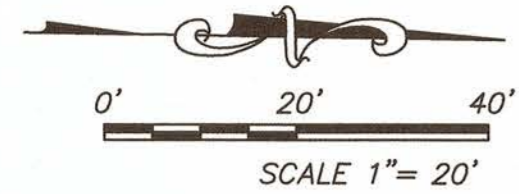
1. INSTALL SILT FENCE. SEE BMP SE-1 FOR INSTALLATION INSTRUCTIONS.
2. INSTALL FIBER ROLLS. SEE BMP SE-5 FOR INSTALLATION INSTRUCTIONS.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE BMP TC-1 FOR INSTALLATION INSTRUCTIONS.
4. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL AREA. SEE BMPs WM-1 THRU WM-10 FOR INSTALLATION INSTRUCTIONS AND PROCEDURES.
5. INSTALL GRAVEL BAG CHECK DAMS TO SLOW SHEET FLOW AND ALLOW SEDIMENT TO SETTLE.
6. COMBINED VEHICLE CLEANING, FUELING AND MAINTENANCE STORAGE AREA. SEE BMPs NS-8, NS-9 AND NS-10 FOR INSTALLATION INSTRUCTIONS.

NOTES:

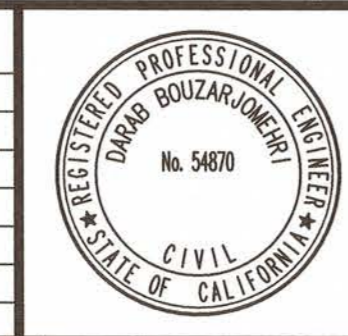
1. BMP FACT SHEETS CAN BE FOUND IN APPENDIX I OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT ON IN THE CASQA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK – CONSTRUCTION (NOVEMBER 2009).
2. QSP TO RECOMMEND ADDITIONAL BMPs AND UPDATE PLAN DURING CONSTRUCTION ACCORDING TO SITE CONDITIONS.
3. QSD SHALL BE NOTIFIED IF THERE IS ADDITION OF STAGING AREA(S) NOT WITHIN THE LIMITS OF CONSTRUCTION. AMENDMENT SHALL BE NOTED.

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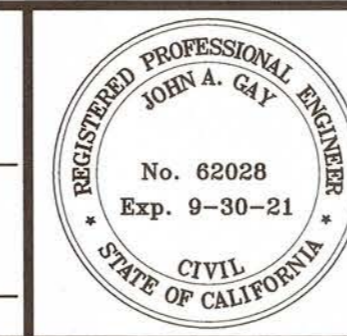


REVISION	DATE	COMMENTS



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PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

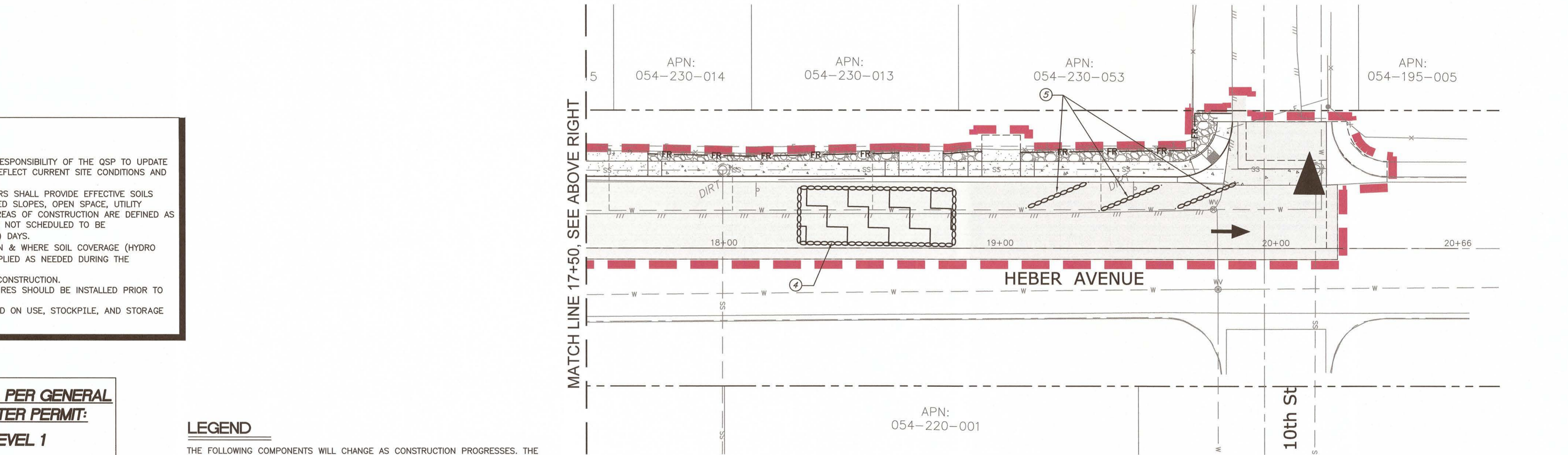
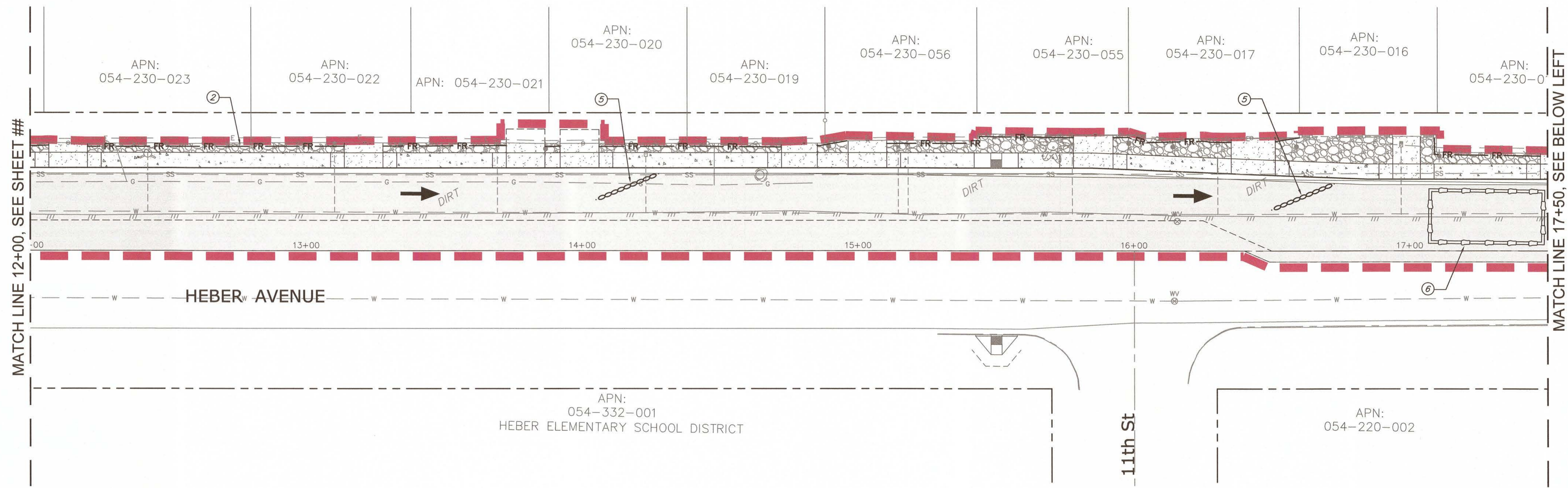
DATE 9/2/2021
 DRAWN SD
 SCALE AS SHOWN
 CHECKED DB

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

EROSION CONTROL NO. 3

REFERENCE R-985	SHEET 17 OF 26
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- GENERAL NOTES:**
- AS CONSTRUCTION PROGRESSES, IT IS THE RESPONSIBILITY OF THE QSP TO UPDATE THIS WATER POLLUTION CONTROL PLAN TO REFLECT CURRENT SITE CONDITIONS AND BMP'S.
 - ACCORDING TO PERMIT PART 2.2, DISCHARGERS SHALL PROVIDE EFFECTIVE SOILS COVER FOR INACTIVE AREAS AND FILL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE DEFINED AS AREAS THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST FOURTEEN(14) DAYS.
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PROJECT RISK LEVEL PER GENERAL PERMIT STORMWATER PERMIT:

	RISK LEVEL 1
	RISK LEVEL 2
	RISK LEVEL 3

LEGEND

THE FOLLOWING COMPONENTS WILL CHANGE AS CONSTRUCTION PROGRESSES. THE SWPPP MAP MUST BE UPDATED IN THE FIELD TO REFLECT ACTUAL SITE CONDITIONS.

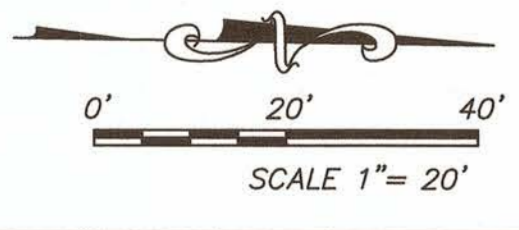
DESCRIPTION	CASQA STD. DWG.	SYMBOL
SURFACE FLOW DIRECTION		
STORM WATER SAMPLING & MONITORING LOCATION		
STORM WATER RUN-ON LOCATION		
LIMITS OF CONSTRUCTION		
SURFACE IMPROVEMENTS		
SILT FENCE	① SE-1	
FIBER ROLLS	② SE-5	

DESCRIPTION	CASQA STD. DWG.	SYMBOL
STABILIZED CONSTRUCTION ENTRANCE	③ TC-1	
WASTE MANAGEMENT & MATERIAL DELIVERY/STORAGE	④ WM-1	
GRAVEL BAG BERM	⑤ SE-6	
CONCRETE WASHOUT FACILITY		

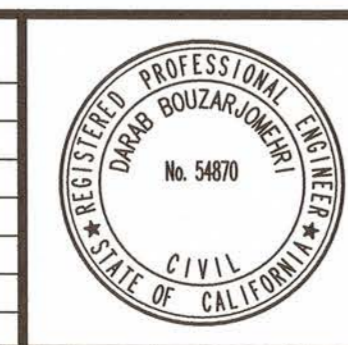
- CONSTRUCTION NOTES:**
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 - INSTALL FIBER ROLLS. SEE BMP SE-5 FOR INSTALLATION INSTRUCTIONS.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE BMP TC-1 FOR INSTALLATION INSTRUCTIONS.
 - WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL AREA. SEE BMPS WM-1 THRU WM-10 FOR INSTALLATION INSTRUCTIONS AND PROCEDURES.
 - INSTALL GRAVEL BAG CHECK DAMS TO SLOW SHEET FLOW AND ALLOW SEDIMENT TO SETTLE.
 - COMBINED VEHICLE CLEANING, FUELING AND MAINTENANCE STORAGE AREA. SEE BMPS NS-8, NS-9 AND NS-10 FOR INSTALLATION INSTRUCTIONS.

- NOTES:**
- BMP FACT SHEETS CAN BE FOUND IN APPENDIX I OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT ON IN THE CASQA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK - CONSTRUCTION (NOVEMBER 2009).
 - QSP TO RECOMMEND ADDITIONAL BMPS AND UPDATE PLAN DURING CONSTRUCTION ACCORDING TO SITE CONDITIONS.
 - QSD SHALL BE NOTIFIED IF THERE IS ADDITION OF STAGING AREA(S) NOT WITHIN THE LIMITS OF CONSTRUCTION. AMENDMENT SHALL BE NOTED.

NV5
 15092 AVENUE OF SCIENCE, SUITE 200
 SAN DIEGO, CA 92128
 P: 858.385.0500 WWW.NV5.COM

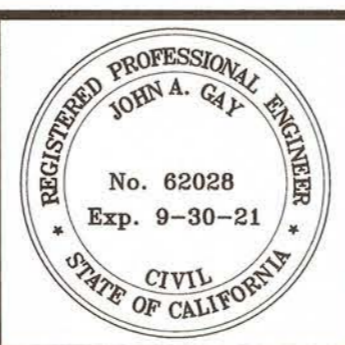


REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:

 DARAB BOUZARJOMEHRI, P.E.
 NV5
 3/17/2021 DATE
 54870 R.C.E. No.
 6/30/22 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 9/9/21 DATE
 62028 R.C.E. No.
 9/30/21 REG. EXP.

PUBLIC WORKS DEPARTMENT
 COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

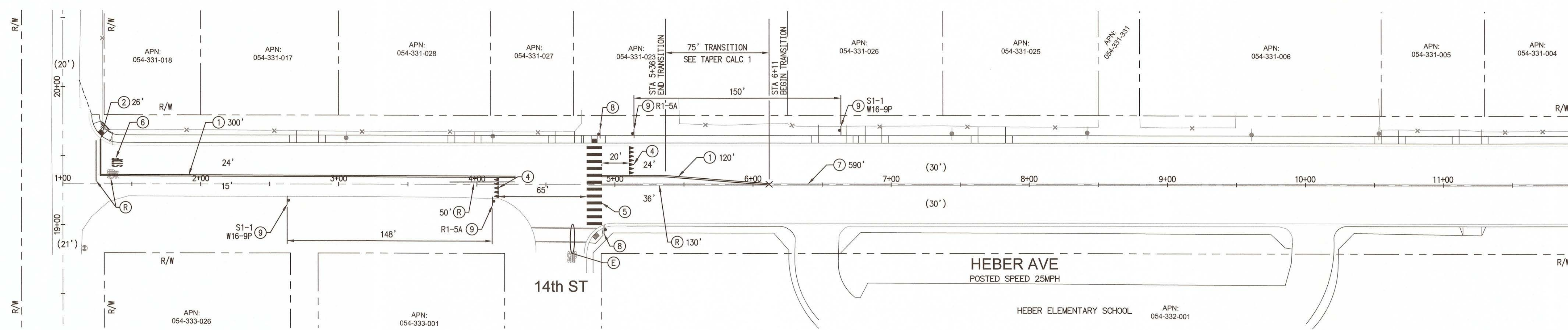
DATE 9/2/2021
 DRAWN SD
 SCALE AS SHOWN
 CHECKED DB

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

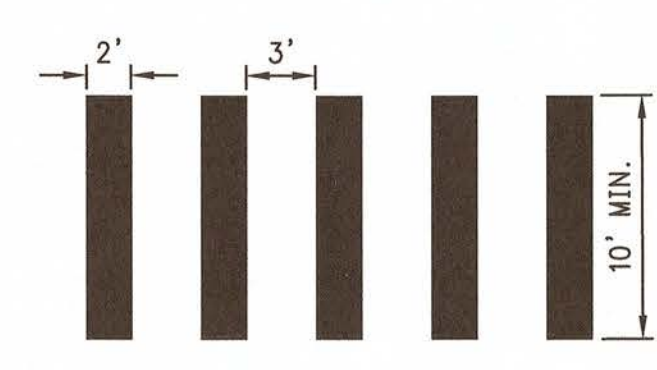
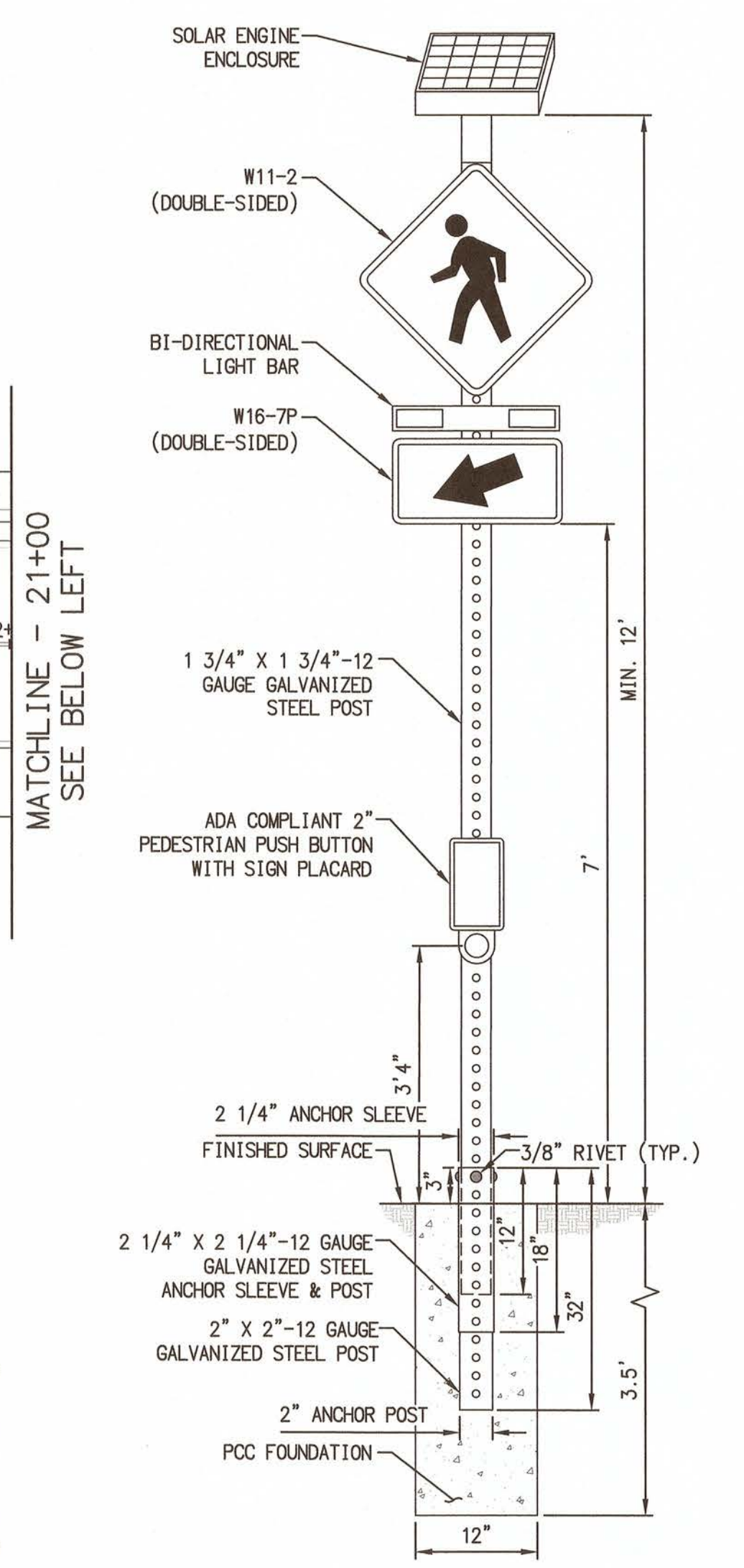
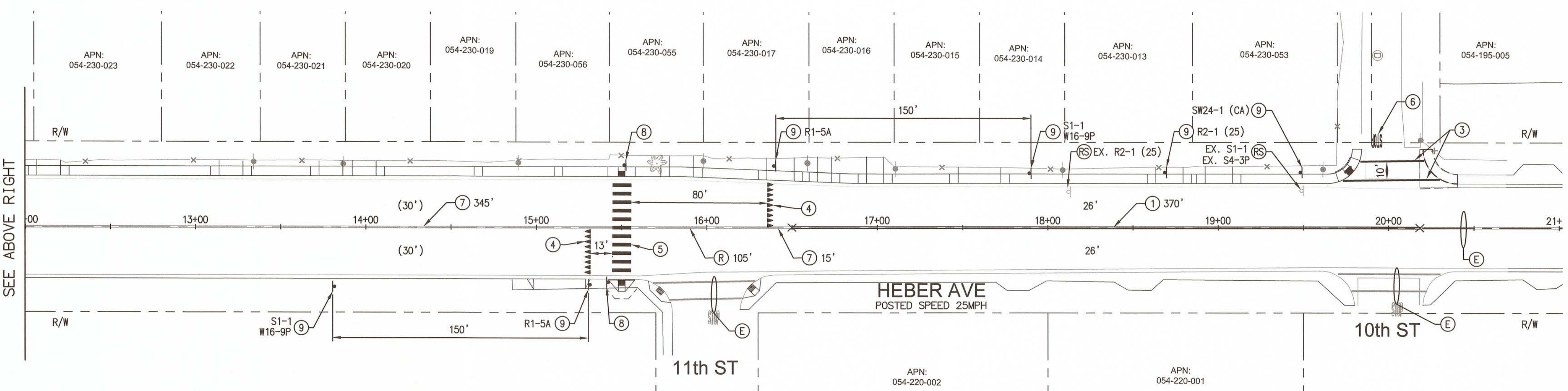
EROSION CONTROL NO. 4

REFERENCE R-985	SHEET 18 OF 26
-----------------	----------------

N:\120-0000787_Cadd\Civil\787_EC.dwg [Scan-09-2021] 13.26



FAWCETT RD



DETAIL "A"
CONTINENTAL CROSSWALK
N.T.S.

DETAIL "B"
FLASHING BEACON DETAIL
N.T.S.

CONSTRUCTION NOTES

- 1 INSTALL DOUBLE YELLOW NO PASSING ZONE LINE PER CALTRANS STANDARD PLAN A20A, DETAIL 22.
- 2 INSTALL 12" WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- 3 INSTALL 12" THERMOPLASTIC SOLID YELLOW CROSSWALK LINE PER CALTRANS STANDARD PLAN A24F.
- 4 INSTALL WHITE TRIANGLE YIELD LINE PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E.
- 5 INSTALL YELLOW CONTINENTAL CROSSWALK PAVEMENT MARKING PER DETAIL "A" THIS SHEET.
- 6 INSTALL THERMOPLASTIC "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D.
- 7 REFRESH EXISTING CENTERLINE STRIPING PER CALTRANS STANDARD PLAN A20A, DETAIL 22.
- 8 FURNISH AND INSTALL CARMANAH R920 SOLAR RECTANGULAR RAPID FLASHING BEACON (RRFB) (OR APPROVED EQUAL) SYSTEM COMPLETE WITH PROPER BRACKETING, MOUNTING HARDWARE, SIGNS, PUSH BUTTONS, WIRING, ETC. W11-2 AND W16-7P SIGNS SHALL BE FLUORESCENT YELLOW-GREEN AND PLACED BACK TO BACK ON EACH POST. LIGHTBAR SHALL BE CONFIGURED BI-DIRECTIONALLY WITH TWO-PIECE MOUNTING BRACKET. SOLAR ENGINE ENCLOSURE SHALL BE MOUNTED ON TOP OF POLE AND SEALED WATER TIGHT. CONTRACTOR SHALL VERIFY WIRELESS COMMUNICATION BETWEEN EACH RRFB. MOUNT RRFB SYSTEM ON GALVANIZED STEEL BREAK-AWAY POST WITH FOUNDATION COMPLETE. FOUNDATION SHALL MAINTAIN 1' MINIMUM CLEARANCE WITH EXISTING UTILITIES. POST SHALL HAVE A MINIMUM HEIGHT OF 12'. SEE DETAIL "B" THIS SHEET FOR MORE DETAILS.
- 9 FURNISH AND INSTALL SIGN AND BREAK-AWAY POST PER DETAIL "B" ON THIS SHEET. BOTTOM OF SIGN SHALL BE 7' MINIMUM ABOVE FINISHED SURFACE. SIGN PER PLAN.
- (E) EXISTING SIGN OR STRIPING TO REMAIN.
- (R) REMOVE EXISTING CONFLICTING STRIPING, PAVEMENT MARKING OR ARROW AS NOTED BY GRINDING.
- (S) REMOVE EXISTING SIGN AND POST.

LEGEND

- MATCH EXISTING STRIPING _____ X
- EXISTING SIGN ON POST _____ d
- PROPOSED SIGN ON NEW POST _____ d

TAPER LENGTH CALCULATIONS:

1. TAPER = $L = \frac{(6') \times (25)^2}{60} = 63'$ MINIMUM

$L =$ LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS
 $= \frac{W \times S^2}{60}$

W = OFFSET
 S = DESIGN SPEED

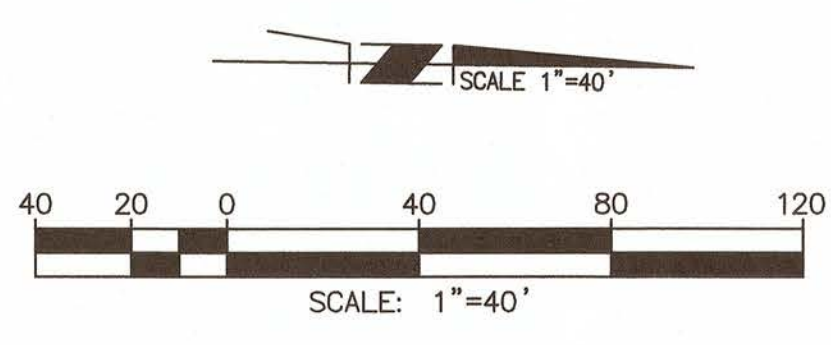
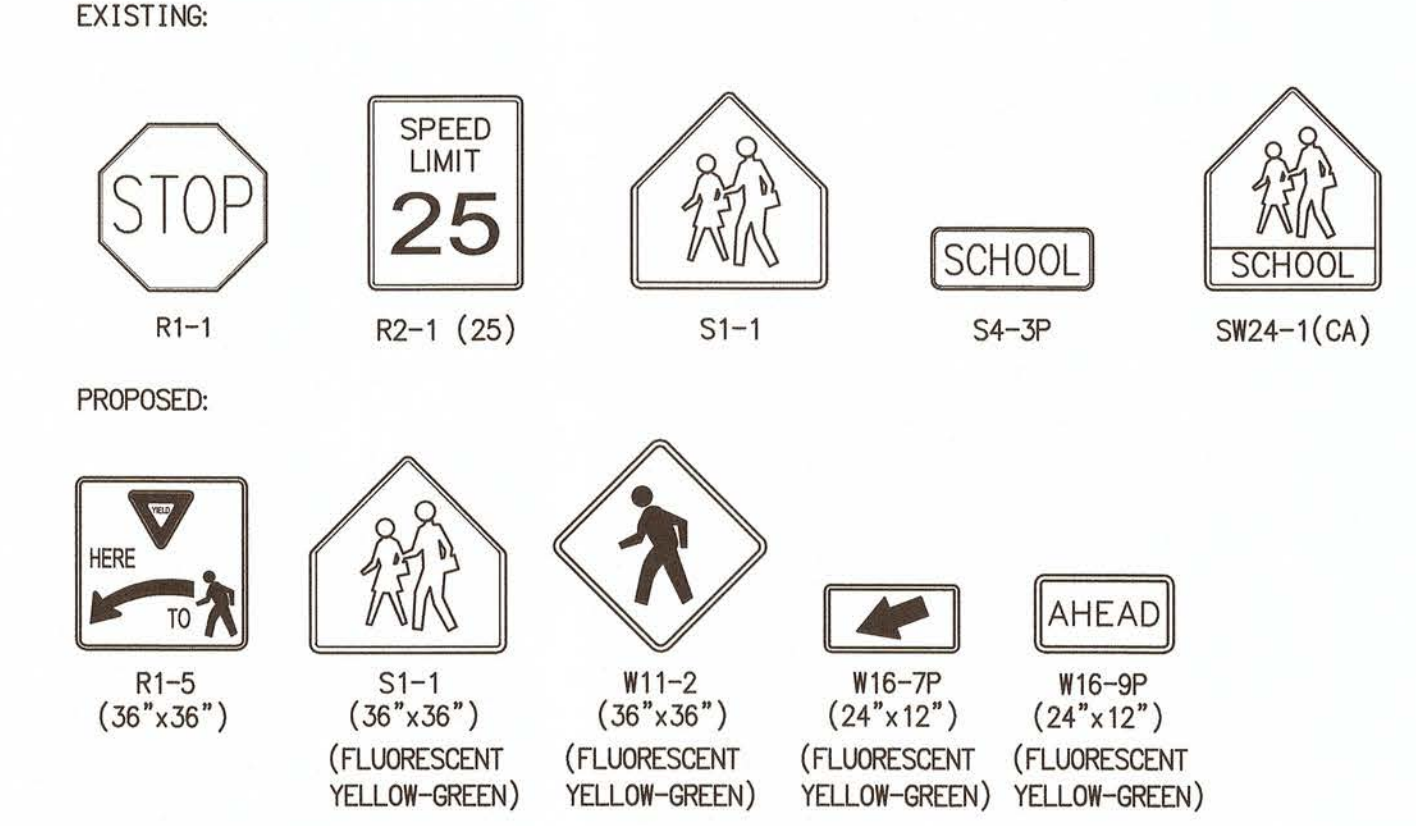
DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

BY: *Nicolas M. Minicilli* DATE: 3-18-2021
 NICOLAS M. MINICILLI
 R.C.E. NO.: 74667 EXPIRATION DATE: 12-31-2021

SIGN LEGEND



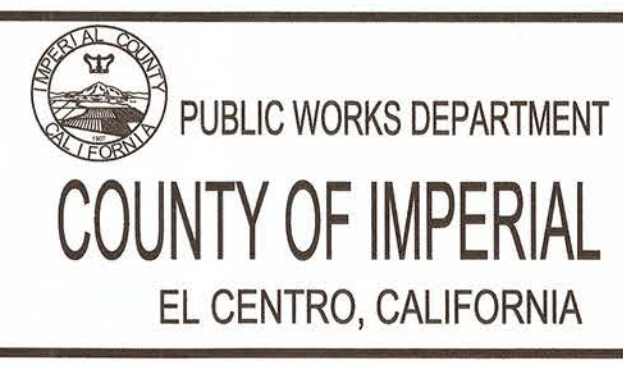
REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
Nicolas M. Minicilli
 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 3/18/2021 DATE
 12/31/2021 REG. EXP.



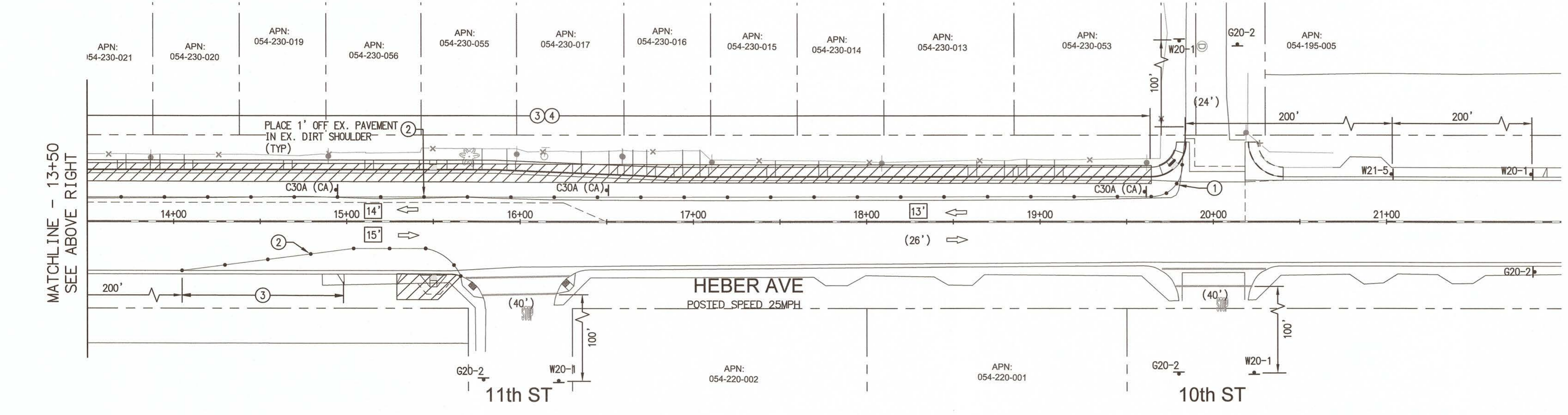
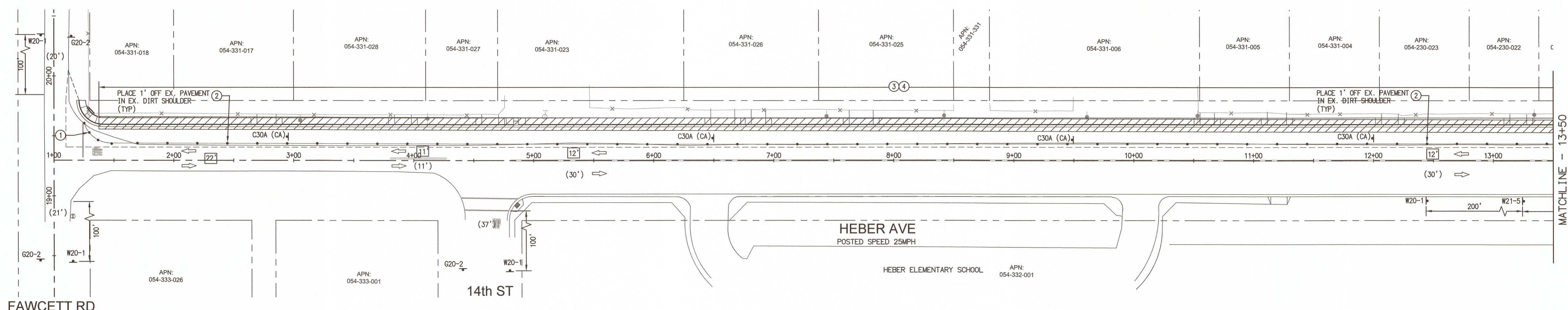
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
John A. Gay
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/30/21 REG. EXP.



DATE: 3/18/2021
 DRAWN: JWW
 SCALE: AS SHOWN
 CHECKED: NM

HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

SIGNING AND STRIPING	
REFERENCE	R 985
SHEET	19 OF 26



CONSTRUCTION NOTES

- ① CONES SHALL BE PLACED IN 10' INTERVALS.
- ② CONES SHALL BE PLACED IN 25' INTERVALS.
- ③ TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- ④ CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.

WORK TO BE DONE

INSTALLATION OF CURB, GUTTER, AND SIDEWALK

HOURS OF WORK

8: 30 AM TO 3: 30 PM

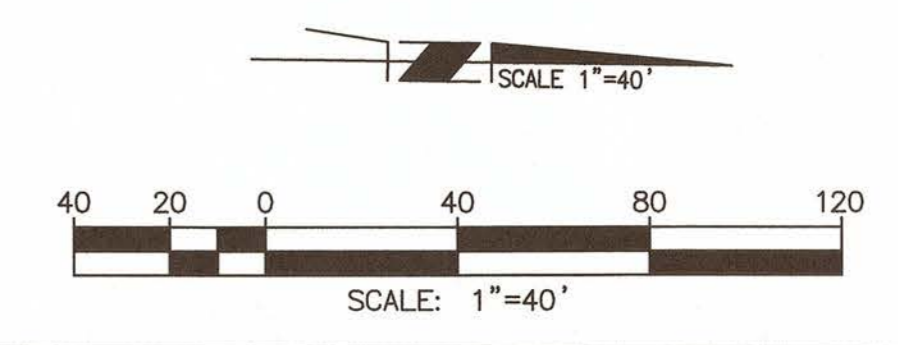
STAGE 1

SHOULDER CLOSURE FOR WORK ON NORTH SIDE OF HEBER AVE.
SHOULDER CLOSURE FOR PEDESTRIAN RAMP WORK ON SOUTH SIDE OF HEBER AVE.

LEGEND

- ▨ WORK AREA
- ↑ TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- * PORTABLE FLASHING BEACON
- ⇨ DIRECTION OF TRAFFIC
- ⚡ TYPE II BARRICADE WITH CONSTRUCTION SIGN
- (XX) EXISTING LANE WIDTH
- [XX] MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

SIGN LEGEND



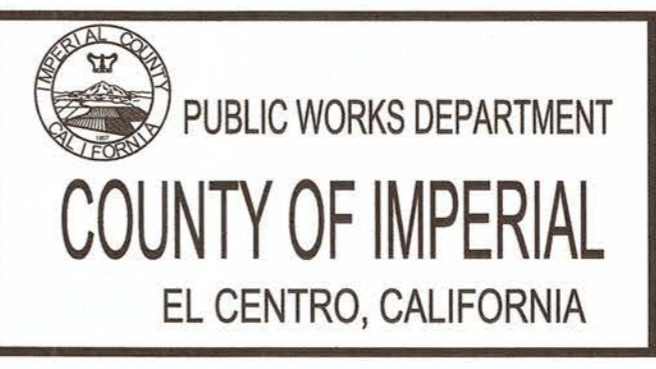
REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:
 [Signature]
 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 3/18/2021 DATE
 12/31/2021 REG. EXP.



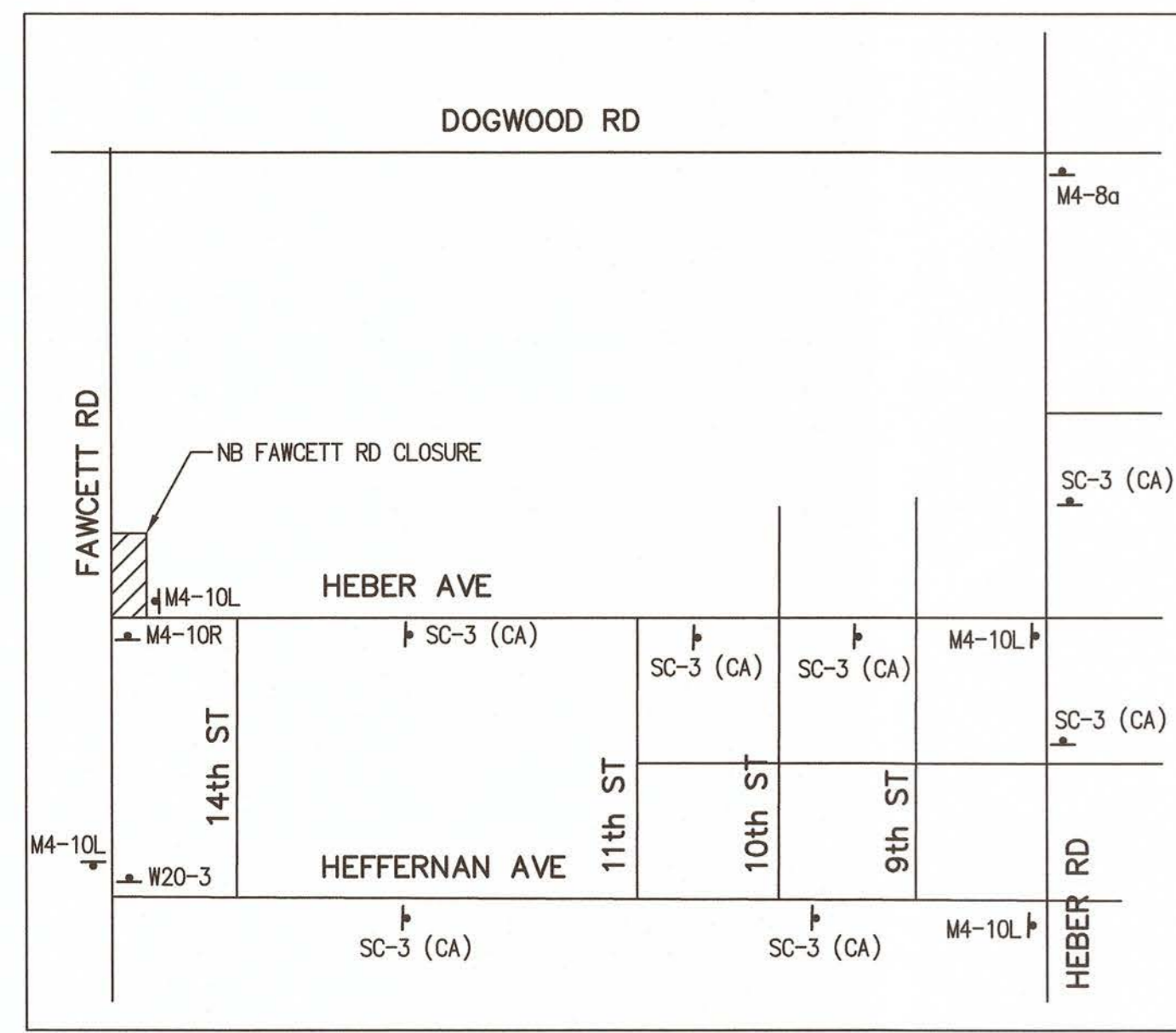
COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:
 [Signature]
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/9/21 DATE
 9/30/21 REG. EXP.



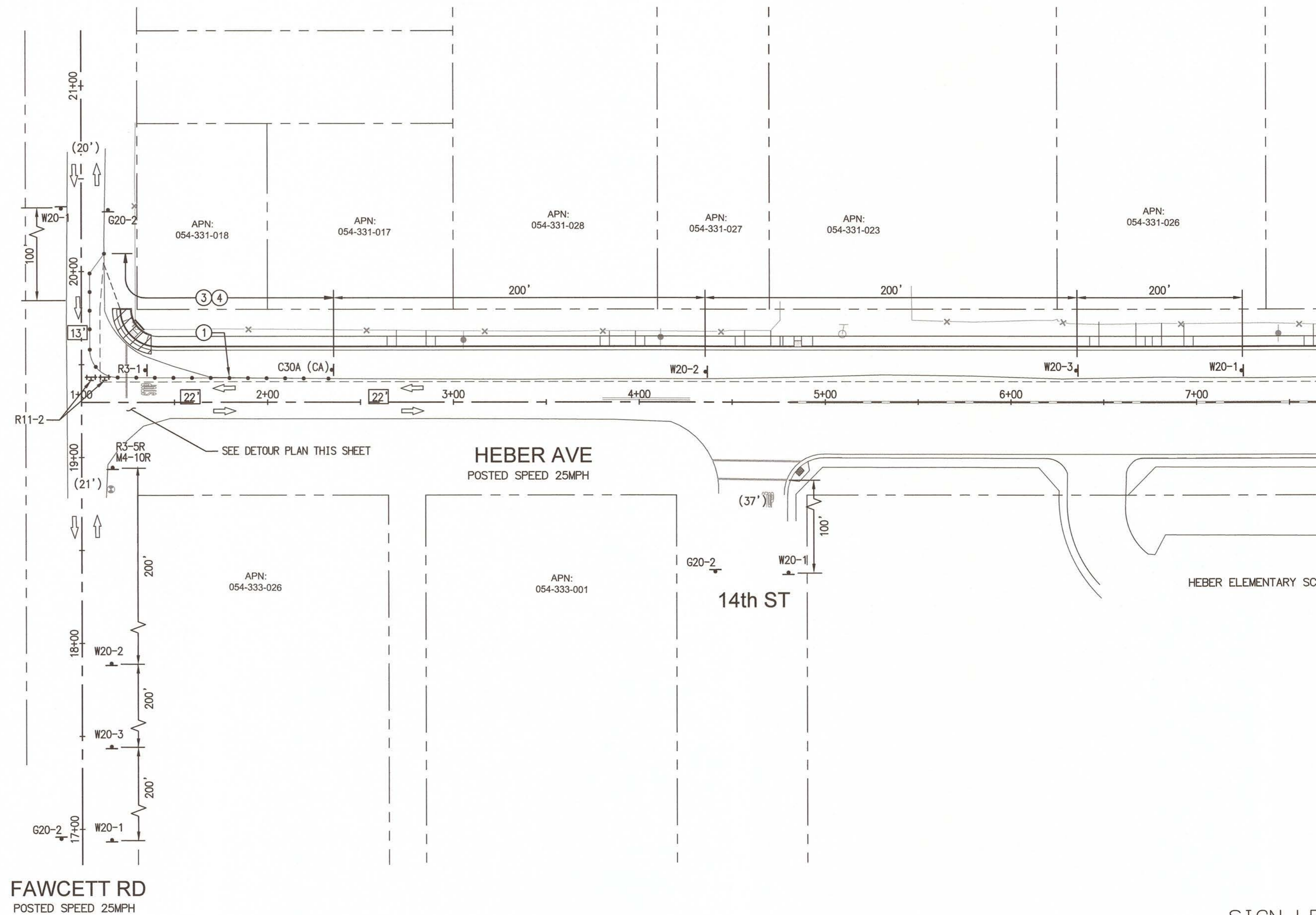
DATE: 3/15/2021
 DRAWN: JW
 SCALE: AS SHOWN
 CHECKED: NM

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

TRAFFIC CONTROL STAGE 1	
REFERENCE	R 985
SHEET	20 OF 26

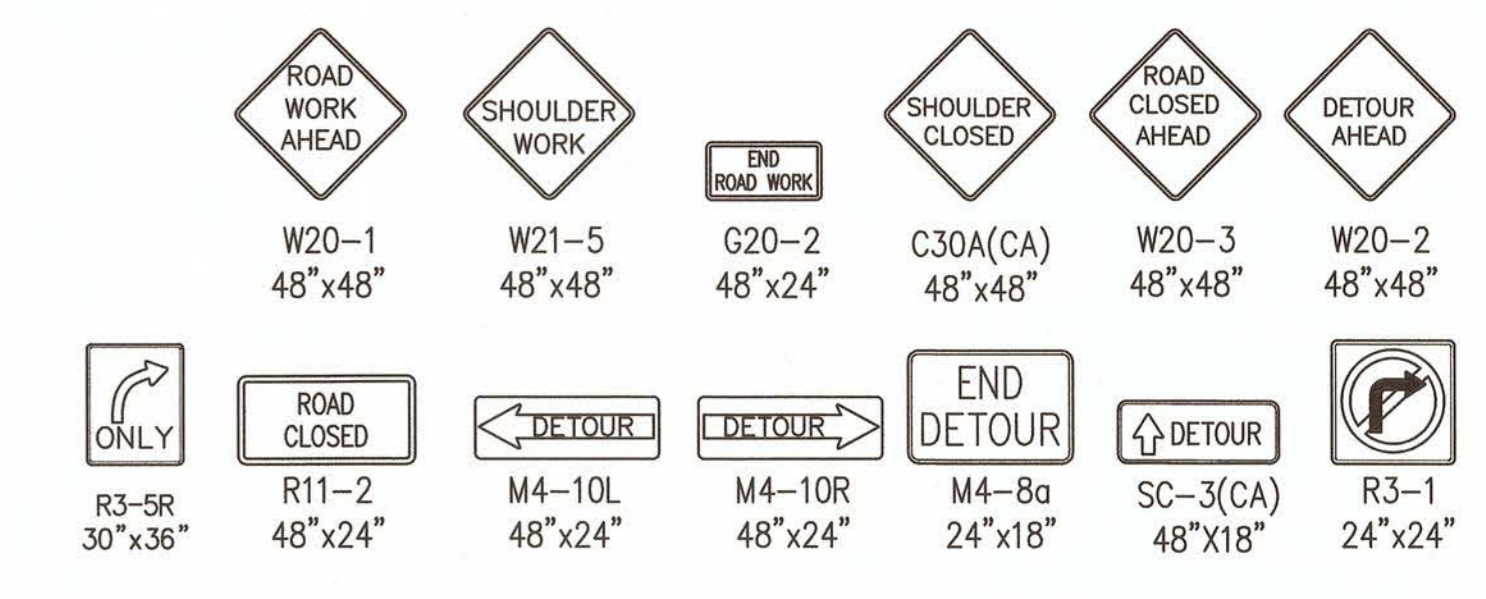


DETOUR PLAN



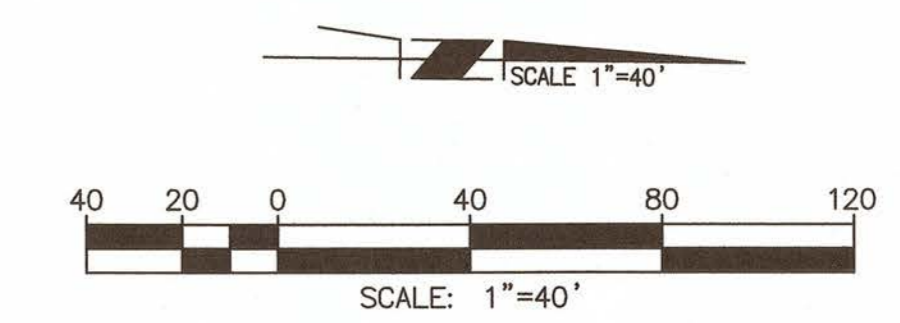
FAWCETT RD
POSTED SPEED 25MPH

SIGN LEGEND



LEGEND

- WORK AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- PORTABLE FLASHING BEACON
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH



CONSTRUCTION NOTES

- 1 CONES SHALL BE PLACED IN 10' INTERVALS.
- 2 CONES SHALL BE PLACED IN 25' INTERVALS.
- 3 TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- 4 CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.

WORK TO BE DONE

INSTALLATION OF CURB RETURN WITH GUTTER AND SIDEWALK

HOURS OF WORK

8:30 AM TO 3:30 PM

STAGE 2

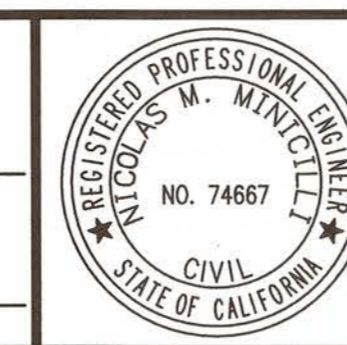
SHOULDER CLOSURE ON WB HEBER AVE AND ROAD CLOSURE ON NB FAWCETT RD FOR WORK ON NORTHEAST CORNER.

REVISION	DATE	COMMENTS



PREPARED UNDER THE DIRECT SUPERVISION OF:

 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 3/18/2021 DATE 12/31/2021 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

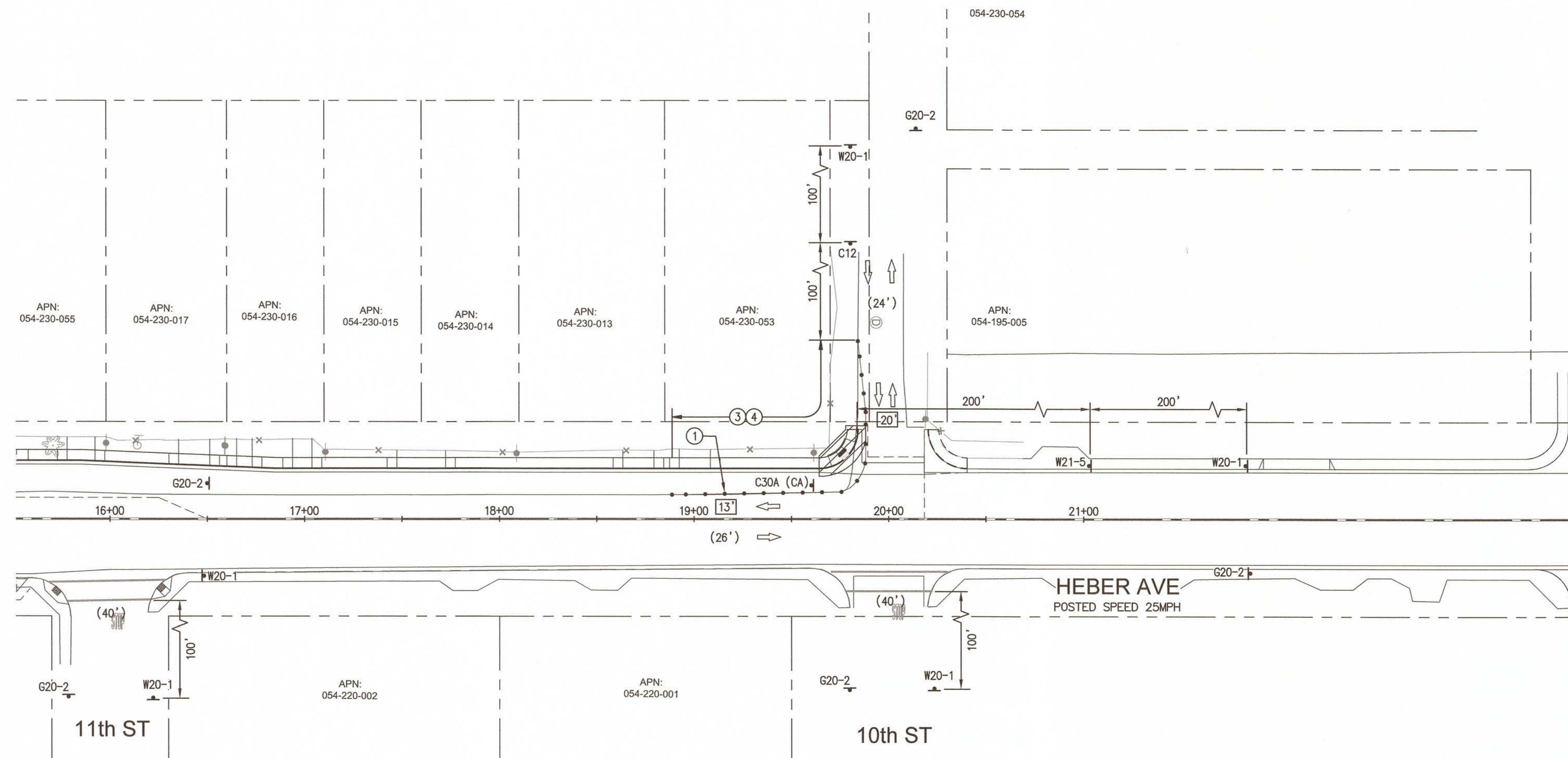
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/30/21 REG. EXP.



DATE: 3/15/2021
 DRAWN: JW
 SCALE: AS SHOWN
 CHECKED: NM

HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

TRAFFIC CONTROL
 STAGE 2
 REFERENCE: R 985
 SHEET 21 OF 26



CONSTRUCTION NOTES

- ① CONES SHALL BE PLACED IN 10' INTERVALS.
- ② CONES SHALL BE PLACED IN 25' INTERVALS.
- ③ TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- ④ CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.

WORK TO BE DONE

INSTALLATION OF CURB RETURN WITH GUTTER AND SIDEWALK.

HOURS OF WORK

8:30 AM TO 3:30 PM

STAGE 3

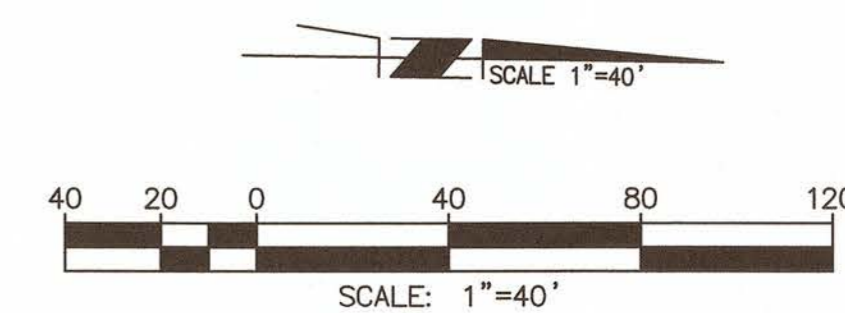
SHOULDER CLOSURE ON WB HEBER AVE SOUTHBOUND 10TH ST FOR WORK ON NORTHWEST CORNER.

LEGEND

- WORK AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- PORTABLE FLASHING BEACON
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

SIGN LEGEND

- ROAD WORK AHEAD
W20-1
48"x48"
- SHOULDER WORK
W21-5
48"x48"
- END ROAD WORK
G20-2
48"x24"
- SHOULDER CLOSED
C30A(CA)
48"x48"
- NARROW LANE
C12
48"x48"



REVISION	DATE	COMMENTS



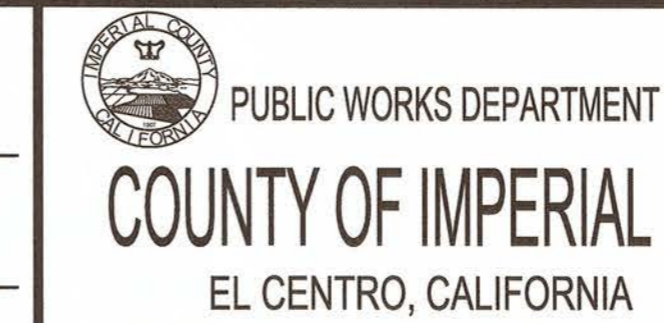
PREPARED UNDER THE DIRECT SUPERVISION OF:

 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 3/18/2021 DATE 12/31/2021 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

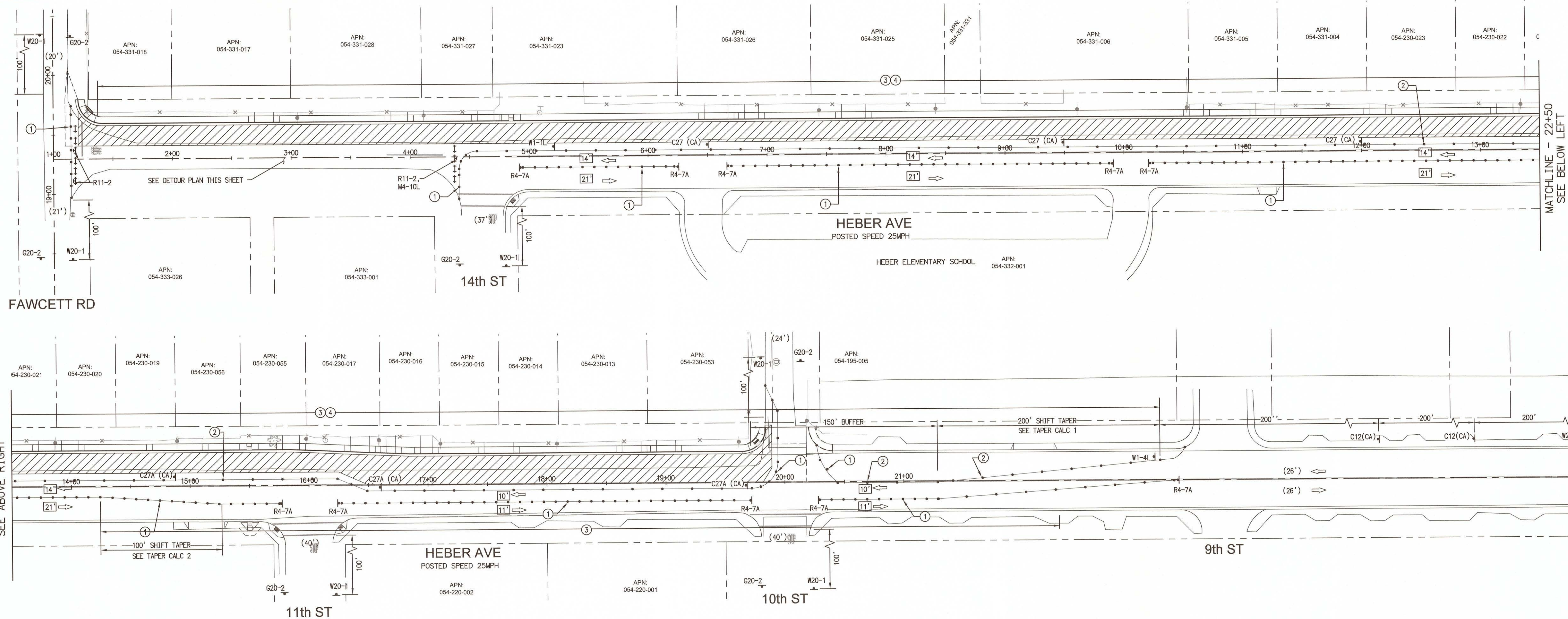
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 9/9/21 DATE 62028 R.C.E. No. 9/30/21 REG. EXP.



DATE: 3/15/2021
 DRAWN: JW
 SCALE: AS SHOWN
 CHECKED: NM

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

TRAFFIC CONTROL STAGE 3	
REFERENCE	R 985
SHEET	22 OF 26



MATCHLINE - 22+50
SEE ABOVE RIGHT

MATCHLINE - 22+50
SEE BELOW LEFT

CONSTRUCTION NOTES

- ① CONES SHALL BE PLACED IN 10' INTERVALS.
- ② CONES SHALL BE PLACED IN 25' INTERVALS.
- ③ TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- ④ CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.

WORK TO BE DONE

INSTALLATION OF PAVEMENT.

HOURS OF WORK

8:30 AM TO 3:30 PM

TAPER LENGTH CALCULATIONS:

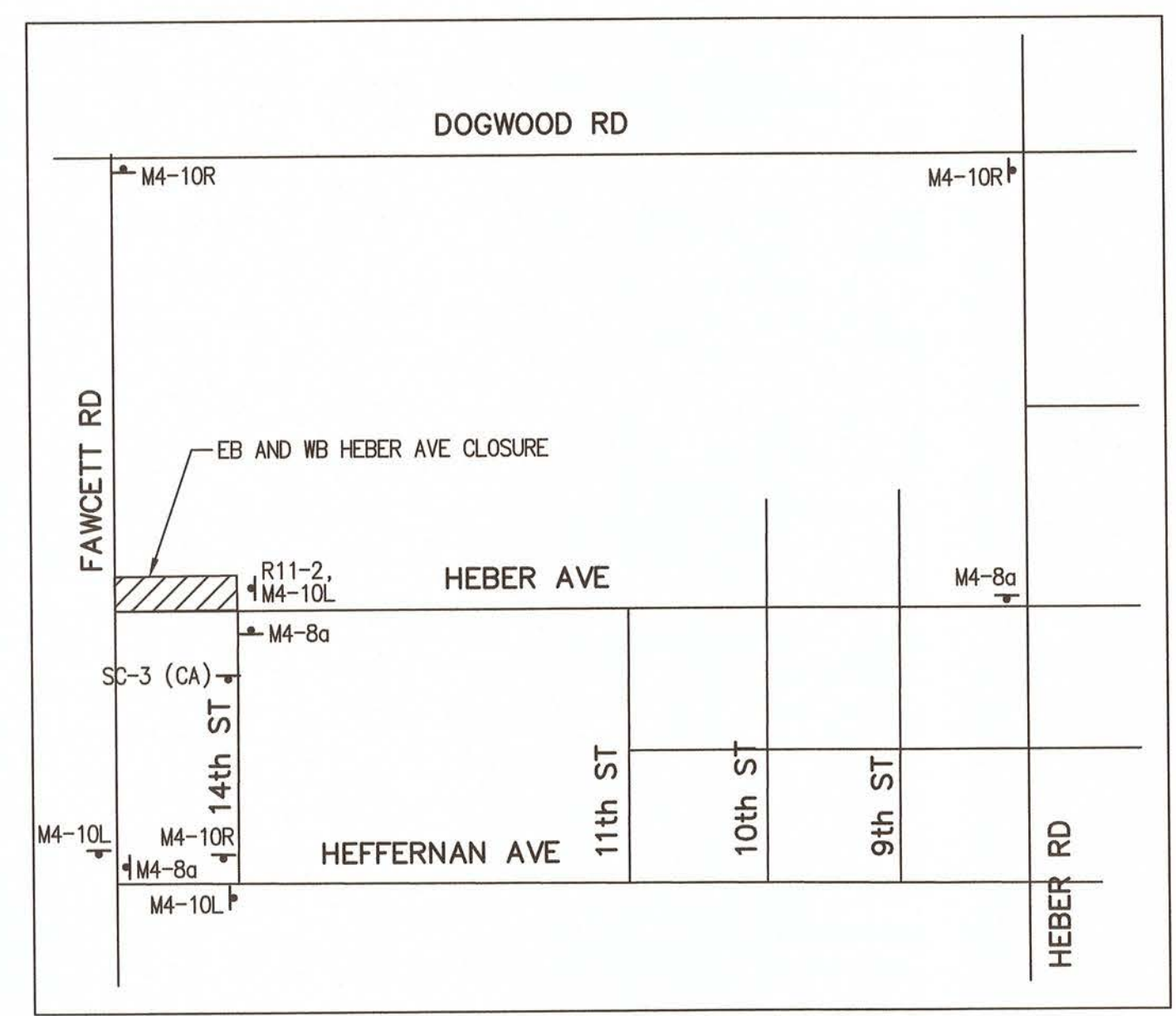
- 1. MIN. SHIFT TAPER = $L/2 = \frac{(17') \times (25)^2/60}{2} = 88'$ MINIMUM
 - 2. MIN. SHIFT TAPER = $L/2 = \frac{(6') \times (25)^2/60}{2} = 31'$ MINIMUM
- L = LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS
 $= \frac{W \times S^2}{60}$
 W = OFFSET
 S = DESIGN SPEED

STAGE 4

LANE CLOSURE ON WB HEBER AVE FOR PAVEMENT WORK ON NORTH SIDE OF HEBER AVE.

LEGEND

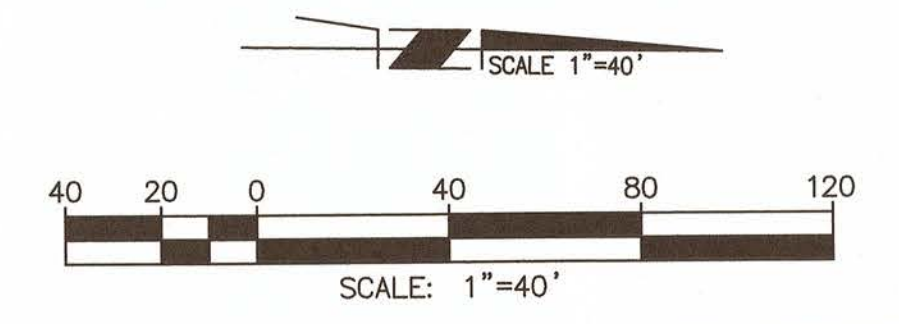
- WORK AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- PORTABLE FLASHING BEACON
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH



DETOUR PLAN

SIGN LEGEND

- ROAD WORK AHEAD
- W21-5
48"x48"
- W1-4L
48"x48"
- G20-2
48"x24"
- C27 (CA)
48"x48"
- W1-1
48"x48"
- C12 (CA)
48"x48"
- R4-7A
48"x24"
- ROAD CLOSED
- R11-2
48"x24"
- M4-10L
48"x24"
- M4-10R
48"x24"
- M4-8a
24"x18"
- END ROAD WORK
- OPEN TRENCH
- NARROW LANE
- KEEP RIGHT
- DETOUR
- END DETOUR



REVISION	DATE	COMMENTS

5865 AVENIDA ENCINAS, STE 1428
 CARLSBAD, CA 92008
 PHONE: 760-602-4290
 WWW.STCTRFFIC.COM

PREPARED UNDER THE DIRECT SUPERVISION OF:

Nicolas M. Minicilli
 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 3/18/2021
 DATE

74667
 R.C.E. No.
 12/31/2021
 REG. EXP.

REGISTERED PROFESSIONAL ENGINEER
 NICOLAS M. MINICILLI
 NO. 74667
 CIVIL
 STATE OF CALIFORNIA

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

John A. Gay
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 9/9/21
 DATE

62028
 R.C.E. No.
 9/30/21
 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

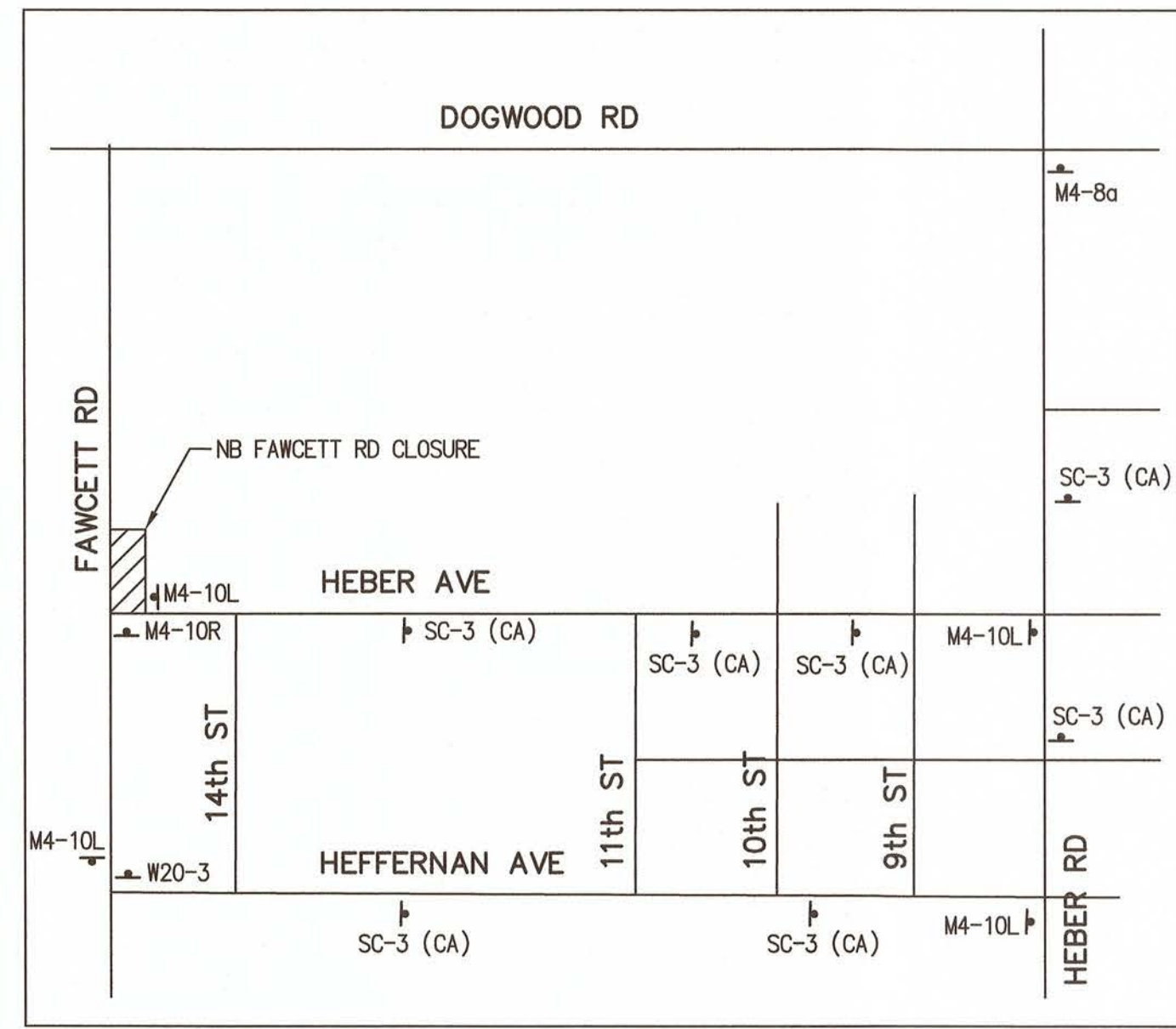
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**HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS**
 COUNTY PROJECT No. 6515

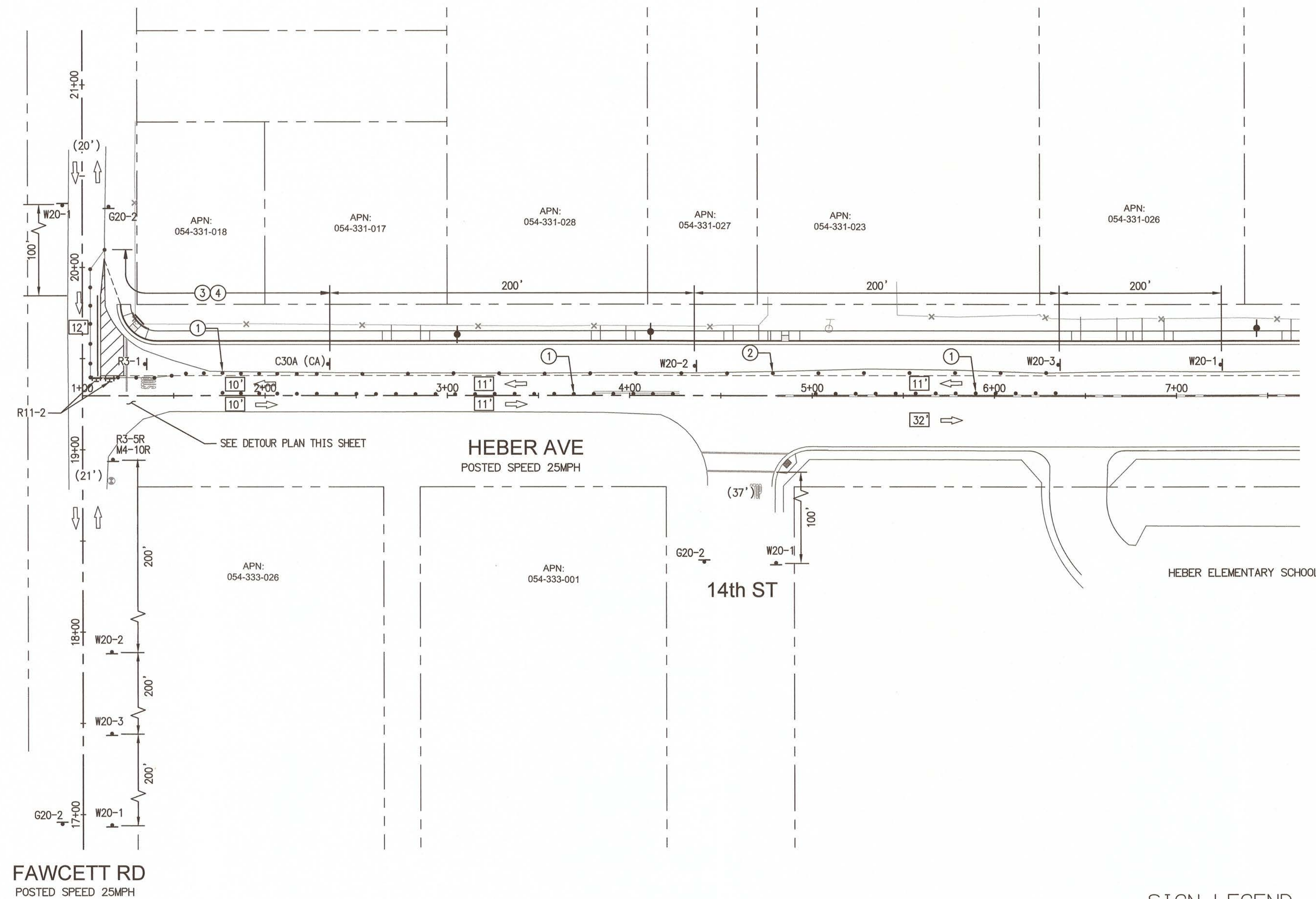
TRAFFIC CONTROL
 STAGE 4

REFERENCE
 R 985

SHEET 23 OF 26



DETOUR PLAN



FAWCETT RD
POSTED SPEED 25MPH

CONSTRUCTION NOTES

- ① CONES SHALL BE PLACED IN 10' INTERVALS.
- ② CONES SHALL BE PLACED IN 25' INTERVALS.
- ③ TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- ④ CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.

WORK TO BE DONE

INSTALLATION OF PAVEMENT SECTION.

HOURS OF WORK

8:30 AM TO 3:30 PM

STAGE 5

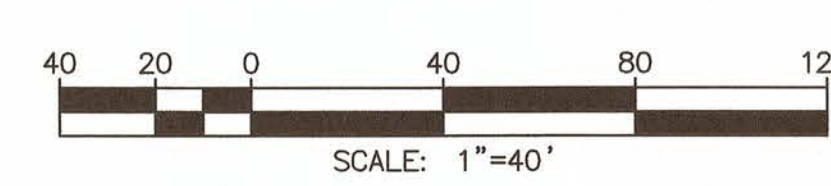
SHOULDER CLOSURE ON WB HEBER AVE AT FAWCETT RD FOR PAVEMENT WORK ON NORTHEAST CORNER.

LEGEND

- WORK AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- PORTABLE FLASHING BEACON
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

SIGN LEGEND

W20-1 48"x48"	W21-5 48"x48"	G20-2 48"x24"	C30A(CA) 48"x48"	W20-3 48"x48"	W20-2 48"x48"
R3-SR 30"x36"	R11-2 48"x24"	M4-10L 48"x24"	M4-10R 48"x24"	M4-8a 24"x18"	SC-3(CA) 48"x18"
					R3-1 24"x24"

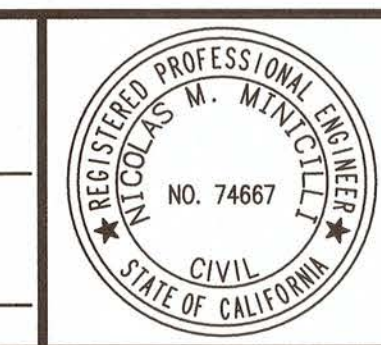


REVISION	DATE	COMMENTS



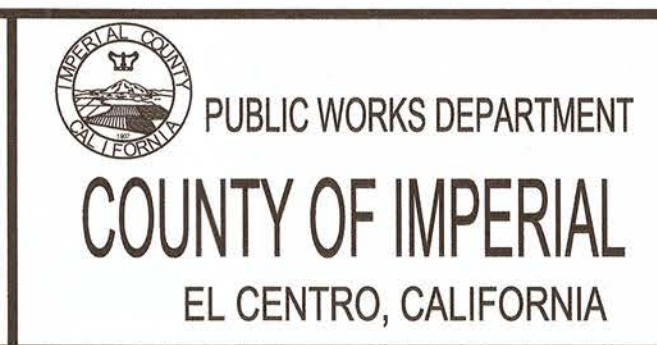
PREPARED UNDER THE DIRECT SUPERVISION OF:

 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 3/18/2021 DATE 12/31/2021 REG. EXP.



COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

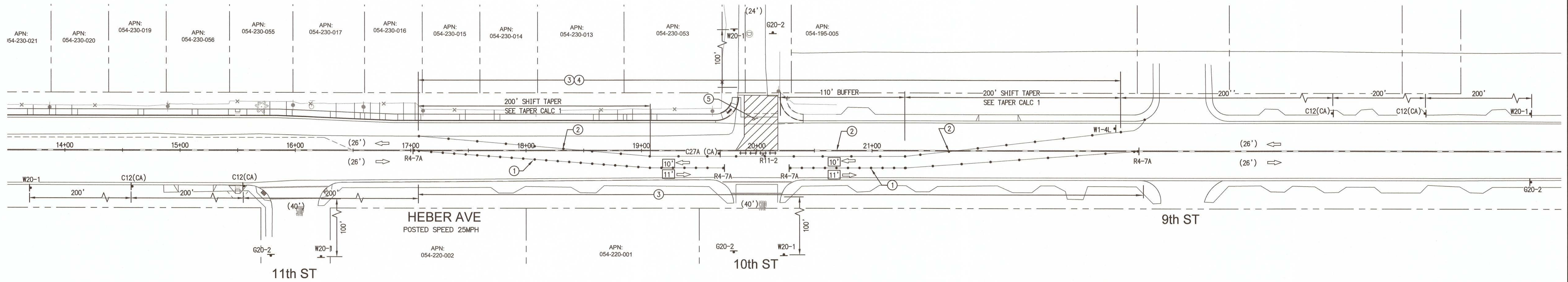
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/9/21 DATE 9/30/21 REG. EXP.



DATE: 3/15/2021
 DRAWN: JW
 SCALE: AS SHOWN
 CHECKED: NM

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
 COUNTY PROJECT No. 6515

TRAFFIC CONTROL STAGE 5	
REFERENCE R 985	SHEET 24 OF 26



CONSTRUCTION NOTES

- ① CONES SHALL BE PLACED IN 10' INTERVALS.
- ② CONES SHALL BE PLACED IN 25' INTERVALS.
- ③ TEMPORARY "NO PARKING" IN WORK ZONE LIMITS.
- ④ CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL DRIVEWAYS AT ALL TIMES.
- ⑤ CONTRACTOR SHALL MAINTAIN ACCESS TO 10TH STREET FOR LOCAL RESIDENTS ONLY.

WORK TO BE DONE

INSTALLATION OF PAVEMENT.

HOURS OF WORK

8:30 AM TO 3:30 PM

TAPER LENGTH CALCULATIONS:

1. MIN. SHIFT TAPER = $L/2 = (17') \times (25)^2 / 60 = 88'$ MINIMUM

L = LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS

= $\frac{W \times S^2}{60}$

W = OFFSET

S = DESIGN SPEED

STAGE 6

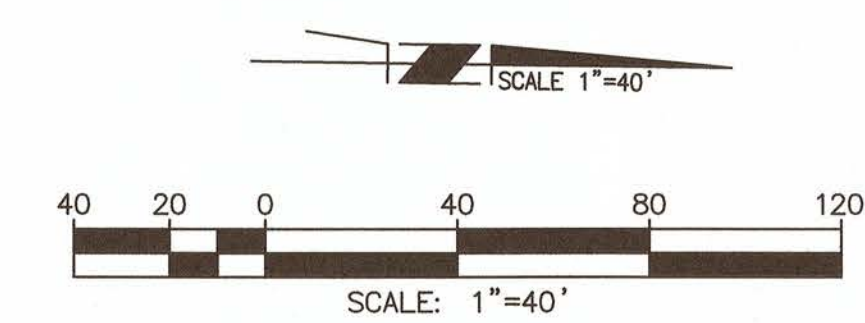
LANE SHIFT ON NB HEBER AVE AT 10TH ST FOR PAVEMENT WORK ON NORTH SIDE OF HEBER AVE.

LEGEND

- WORK AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES
- PORTABLE FLASHING BEACON
- DIRECTION OF TRAFFIC
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

SIGN LEGEND

- W21-5
48"x48"
- W1-4L
48"x48"
- G20-2
48"x24"
- C27 (CA)
48"x48"
- W1-1
48"x48"
- C12 (CA)
48"x48"
- R4-7A
48"x24"
- R11-2
48"x24"



REVISION	DATE	COMMENTS

5865 AVENIDA ENCINAS, STE 142B
CARLSBAD, CA 92008
PHONE: 760-602-4290
WWW.STCTRFFIC.COM

PREPARED UNDER THE DIRECT SUPERVISION OF:

 NICOLAS M. MINICILLI, P.E.
 STC TRAFFIC, INC.
 74667 R.C.E. No.
 12/31/2021 REG. EXP.

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
 APPROVED FOR CONSTRUCTION BY:

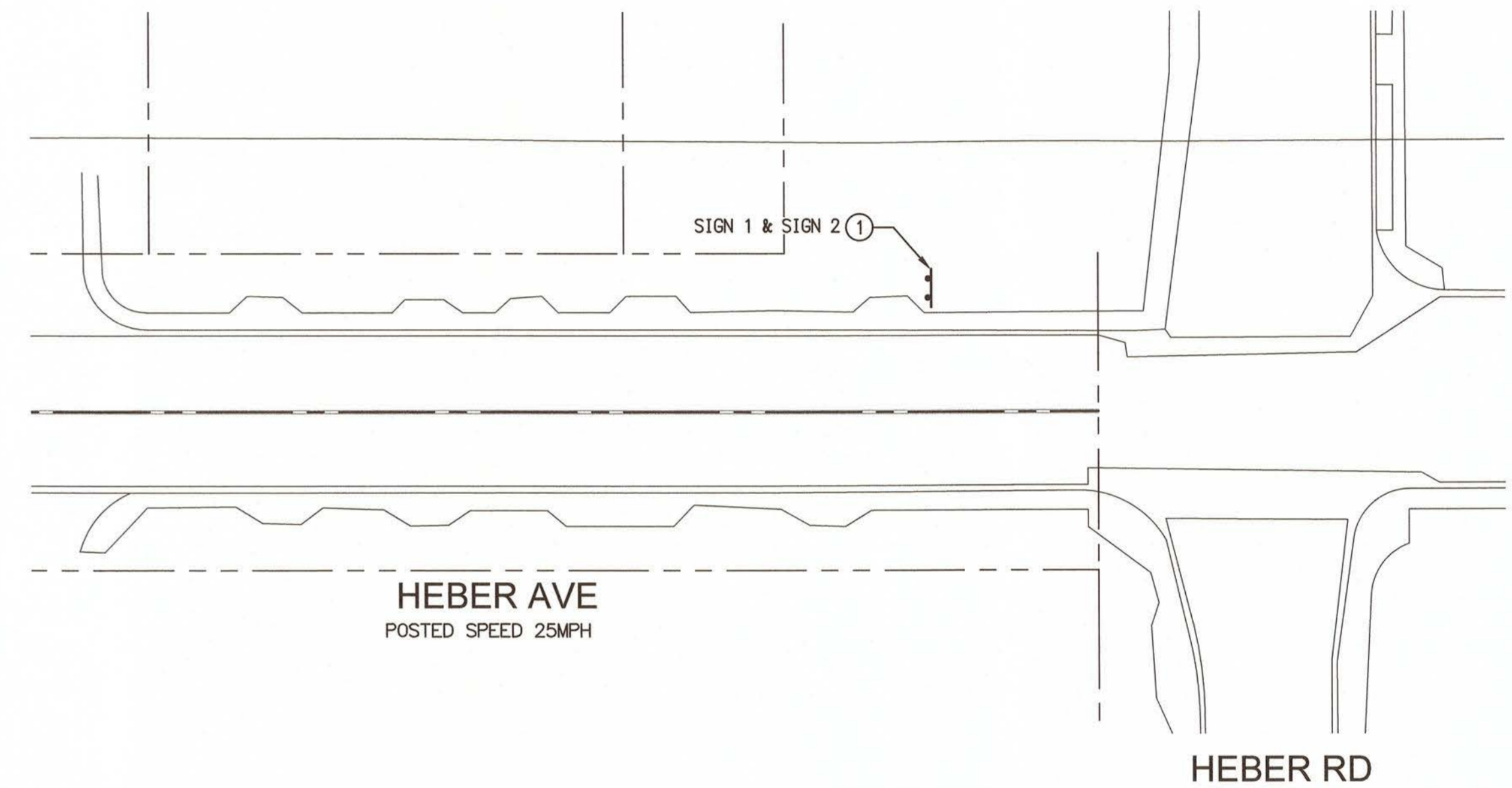
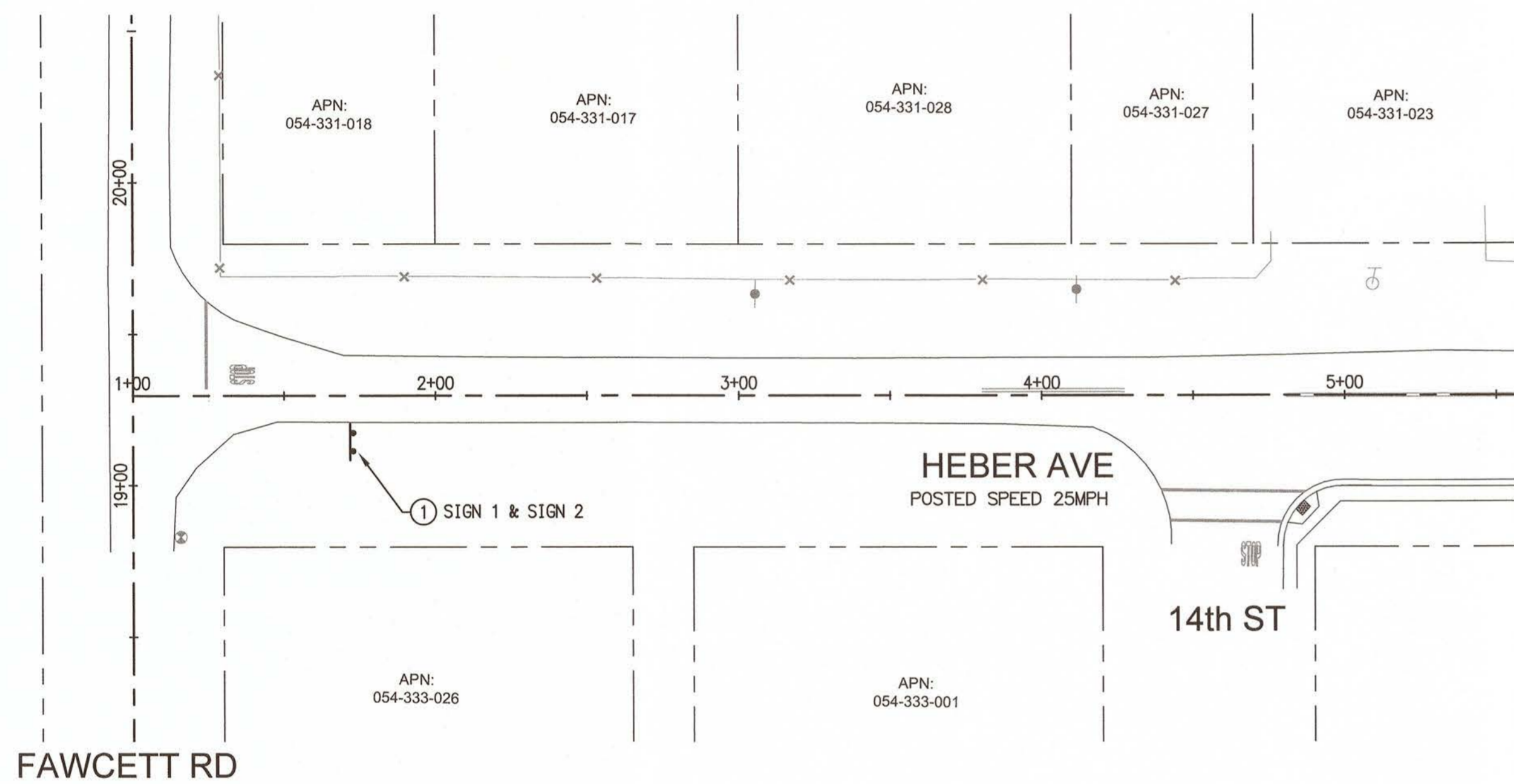
 JOHN A. GAY, P.E.
 ROAD COMMISSIONER
 62028 R.C.E. No.
 9/30/21 REG. EXP.

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
 EL CENTRO, CALIFORNIA

DATE: 3/15/2021
 DRAWN: JW
 SCALE: AS SHOWN
 CHECKED: NM

**HEBER AVENUE ROAD WIDENING
 AND SIDEWALK IMPROVEMENTS**
 COUNTY PROJECT No. 6515

TRAFFIC CONTROL
 STAGE 6
 REFERENCE: R 985
 SHEET 25 OF 26



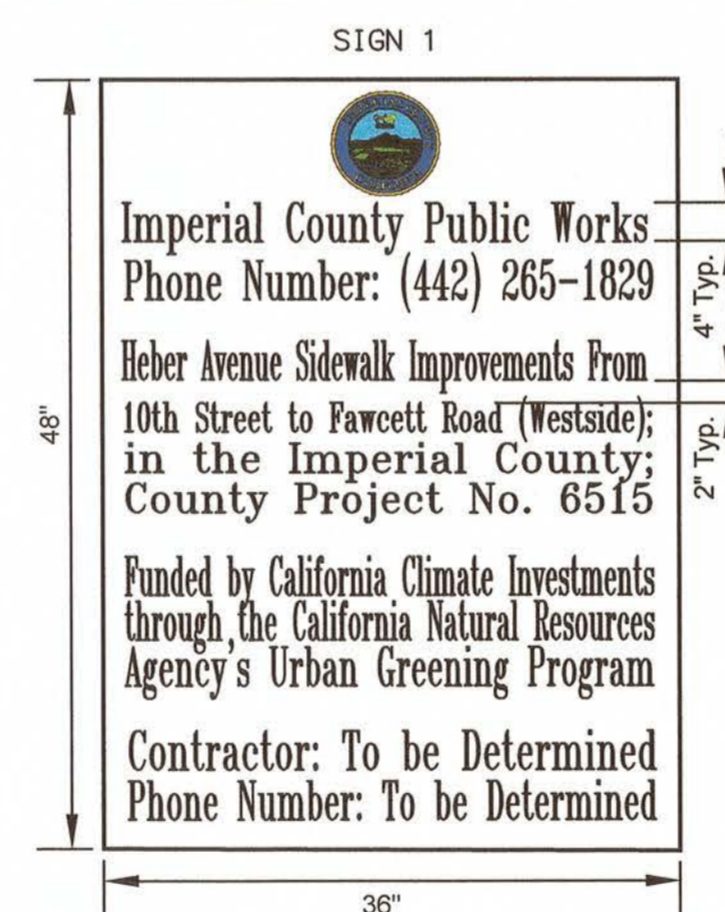
CONSTRUCTION NOTES

- ① FURNISH AND INSTALL SIGN 1 AND SIGN 2 ON A DOUBLE POST

LEGEND

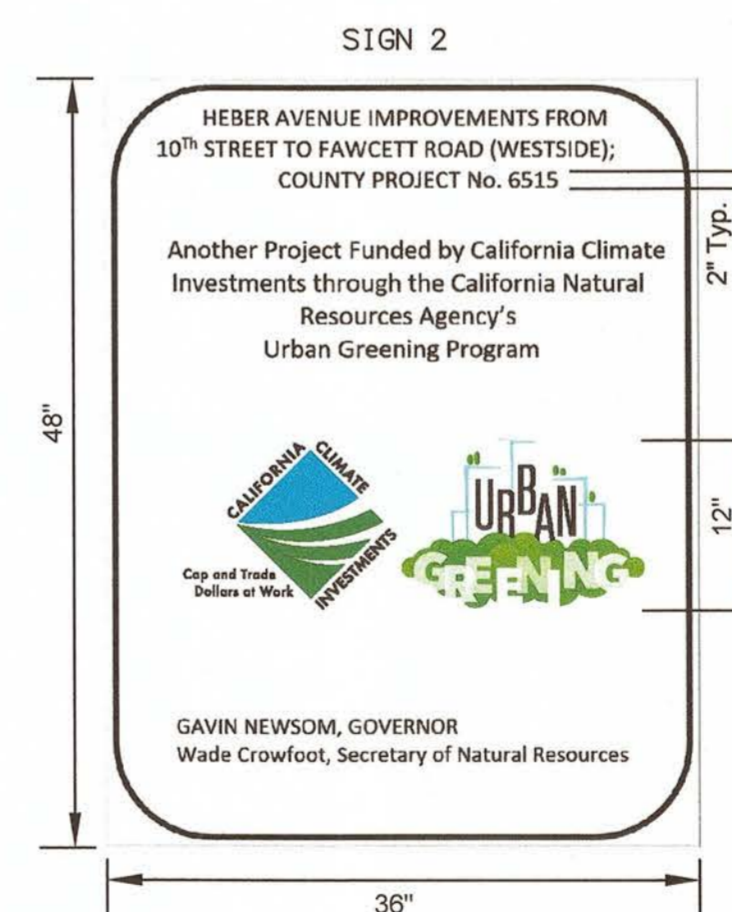
PROPOSED SIGNS ON DOUBLE POST

SIGN LEGEND



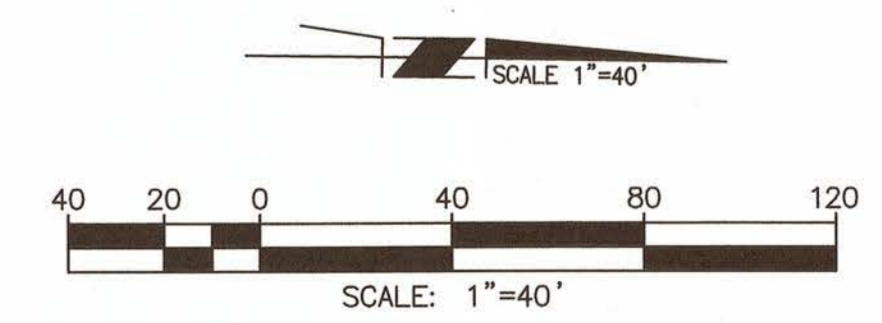
NOTES: (SIGN 1)

- The above sign is required at all locations as dictated elsewhere. The above sign is required at all locations as dictated elsewhere in these Special Provisions. in these Special Provisions.
- Contractor shall install a minimum of two signs, visible to the traveling public, at each end of the project as directed by the Engineer.
- The sign shall be reflectorized material on an aluminum base. The sign shall be reflectorized material on an aluminum base.



NOTES: (SIGN 2)

- The above sign shall be durable and resistant to the elements and graffiti. The California Department of Parks and Recreation and California Department of Transportation standards can be used as a guide for gauge of metal, quality of paints, mounting specifications, etc.
- Logos shall measure a minimum of 1'x1'.



REVISION	DATE	COMMENTS

5865 AVENIDA ENCINAS, STE 142B
CARLSBAD, CA 92008
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PREPARED UNDER THE DIRECT SUPERVISION OF:

Nicolas M. Minicilli
NICOLAS M. MINICILLI, P.E.
STC TRAFFIC, INC.

74667 R.C.E. No.
12/31/2021 REG. EXP.
4/20/2021 DATE

COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT
APPROVED FOR CONSTRUCTION BY:

John A. Gay
JOHN A. GAY, P.E.
ROAD COMMISSIONER

62028 R.C.E. No.
9/30/21 REG. EXP.
9/9/21 DATE

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL
EL CENTRO, CALIFORNIA

DATE: 3/15/2021
DRAWN: JW
SCALE: AS SHOWN
CHECKED: NM

HEBER AVENUE ROAD WIDENING AND SIDEWALK IMPROVEMENTS
COUNTY PROJECT No. 6515

FUNDING ACKNOWLEDGEMENT SIGN

REFERENCE: R 985

SHEET 26 OF 26