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PROJECT DESCRIPTION

CONSTRUCT COMPLETE STREET IMPROVEMENTS ON BROMMER STREET FROM CITY OF CAPITOLA WESTERN CITY LIMITS TO 41ST AVENUE TO IMPROVE ACCESS FOR VEHICLES, BICYCLES, AND PEDESTRIANS. THE PROJECT SCOPE INCLUDES RECONSTRUCTING THE BROMMER STREET ROADWAY AND CONSTRUCTING A SIDEWALK ON THE NORTH SIDE.

BASIS OF BEARINGS AND ELEVATIONS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALCULATED BEARING BETWEEN THE FOUND RAILROAD SPIKE AT THE INTERSECTION OF BULB AVENUE AND BROMMER STREET, AND THE FOUND RAILROAD SPIKE WITH CHISELED X AT THE NORTHWEST CORNER OF LOT Q, AS SHOWN ON RECORD OF SURVEY OF A PART OF BROMMER STREET, FILED IN VOLUME 47 OF MAPS AT PAGE 10 & 11, SANTA CRUZ COUNTY RECORDS.

= N 88°56'57" W

THE BASIS OF ELEVATIONS FOR THIS MAP IS THE COUNTY OF SANTA CRUZ BENCHMARK NO. 4 DESCRIPTION: PAINTED BOLT AT THE SOUTHEASTERLY BASE OF CROSSING SIGNAL AT THE NORTHWEST CORNER OF INTERSECTION OR RAILROAD AND 41ST AVENUE.

ELEVATION = 66.60 (NAVD88)
 CONTOUR INTERVAL = 1 FOOT
 DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF

SCHEDULE A

STA 15+50 TO 22+48

38TH AVENUE TO 41ST AVENUE: IMPROVEMENTS INCLUDE PAVEMENT RECONSTRUCTION, CURB, GUTTER, SIDEWALK, DRIVEWAY IMPROVEMENTS, SIGNING, AND STRIPING ALONG BROMMER STREET.

SCHEDULE B

STA 12+25 TO 15+00

CITY OF CAPITOLA CITY LIMITS TO 38TH AVENUE: IMPROVEMENTS INCLUDE PAVEMENT RECONSTRUCTION, SIGNING, AND STRIPING ALONG BROMMER STREET.

ACCEPTANCE OF PLANS

THE CITY OF CAPITOLA HEREBY ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLANS PREPARATION REQUIREMENTS OF THIS GOVERNMENT. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGN RESIDES WITH THE ENGINEER AND ENGINEERING FIRM OF RECORD.

Steve Jesberg

STEVE JESBERG P.E.
 DIRECTOR OF PUBLIC WORKS
 CITY ENGINEER
 CITY OF CAPITOLA



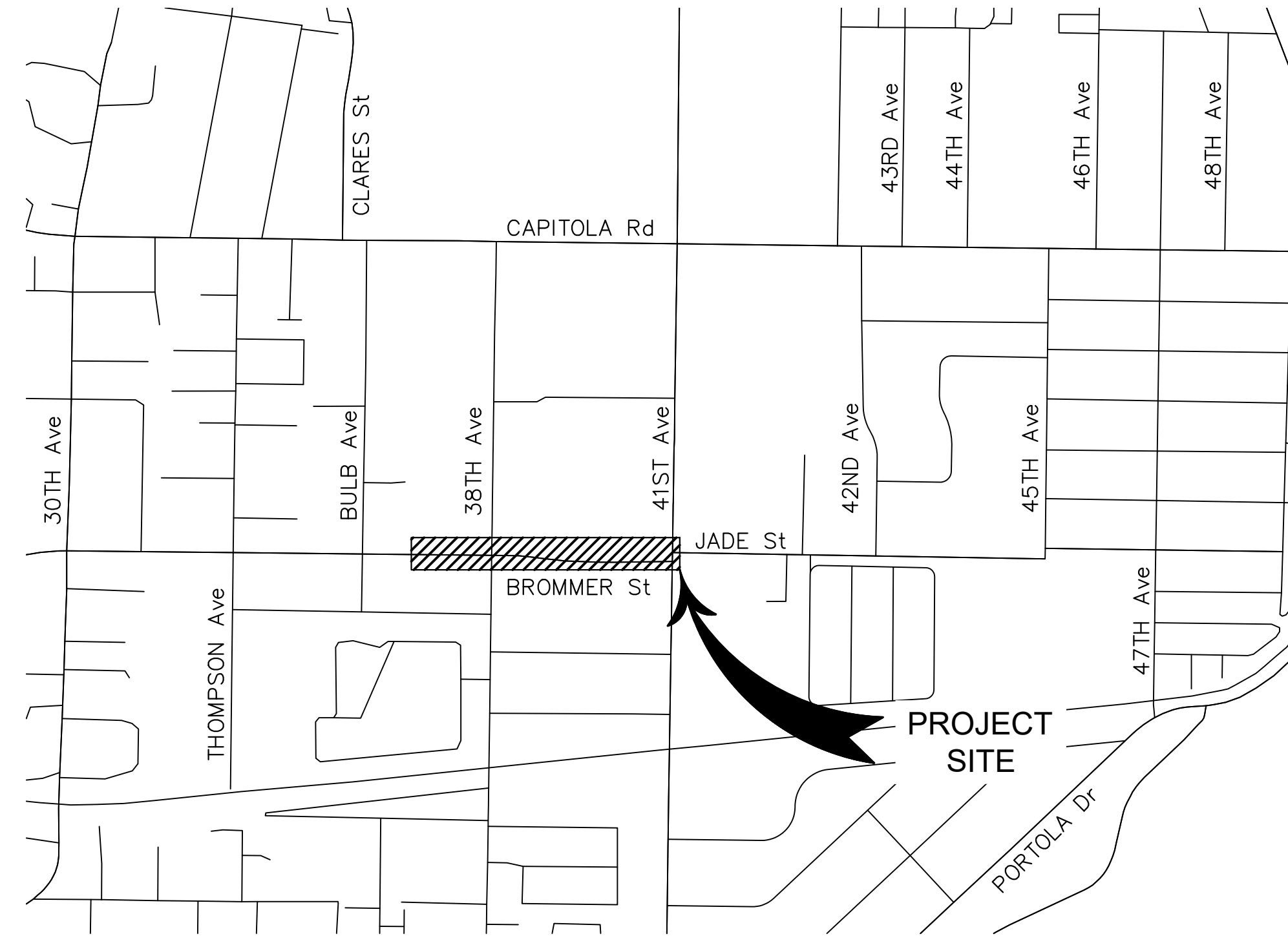
11/22/2019
 DATE



BROMMER STREET COMPLETE STREET IMPROVEMENTS

SANTA CRUZ COUNTY CAPITOLA, CALIFORNIA

TO BE SUPPLEMENTED BY THE PROJECT SPECIFICATIONS, CITY OF CAPITOLA STANDARD DRAWINGS, CALTRANS STANDARD PLANS DATED OCTOBER 2018, AND CALIFORNIA MUTCD REV 4 DATED MARCH 2019.



VICINITY MAP
 NO SCALE

SHEET INDEX		
SHEET No	DRAWING No	SHEET CONTENTS
1	CV-1	COVER SHEET AND GENERAL NOTES
2	X-1	TYPICAL SECTIONS
3	HC-1	HORIZONTAL CONTROL
4-6	L-1 TO L-3	LAYOUT PLANS
7	P-1	ROADWAY PROFILE
8-10	CD-1 TO CD-3	CONSTRUCTION DETAILS
11-13	SS-1 TO SS-3	SIGNING AND STRIPING PLANS

GENERAL PROJECT NOTES

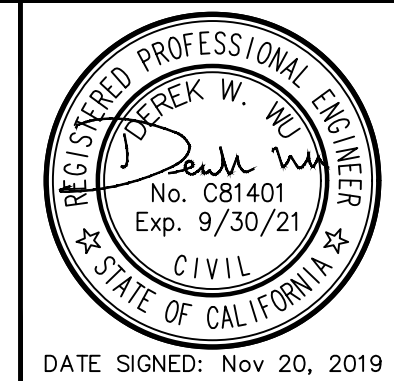
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"
- EXACT FIELD LOCATION FOR NEW IMPROVEMENTS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- VERIFICATION OF EXISTING CONDITIONS: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR DIRECTION.
- UNDERGROUND SERVICE ALERT: A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 FOR EXISTING UTILITY LOCATIONS.
- UNDERGROUND FACILITIES: THE LOCATION OF EXISTING UNDERGROUND UTILITY FACILITIES, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY TO OBTAIN INFORMATION REGARDING THE DEPTH OF BURIAL AND HORIZONTAL LOCATION OF UTILITY LINES AS NECESSARY. FIELD VERIFY OBTAINED INFORMATION, AND NOTIFY ENGINEER OF ANY CONFLICTS OR OMISSIONS.
- NOTICE TO PROCEED: CONTRACTOR SHALL NOT COMMENCE WORK UNTIL AFTER A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY, AND AFTER A NOTICE TO PROCEED HAS BEEN ISSUED BY THE CITY.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, AND OTHER DEVICES TO PROVIDE FOR SAFE PASSAGE OF PUBLIC VEHICULAR, BIKE, AND PEDESTRIAN TRAFFIC.
- THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL & SIGNING PLAN TO THE ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE NOTICE TO PROCEED SHALL NOT BE ISSUED UNTIL SAID TRAFFIC CONTROL PLAN HAS BEEN SUBMITTED AND APPROVED BY THE CITY.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY DEVICES IN ACCORDANCE WITH CURRENT CALTRANS TRAFFIC CONTROL STANDARDS INCLUDING, BUT NOT LIMITED TO, STRIPING, SIGNS, BARRICADES, AND FLAG PERSONS.
- CONTRACTOR SHALL KEEP EXISTING STREETS FREE FROM DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIMES. PRIOR TO OBTAINING WATER FROM FIRE HYDRANTS, CONTRACTOR SHALL OBTAIN A HYDRANT METER FROM OPERATOR OF WATER SYSTEM.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES ALONG BROMMER STREET THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- ALL EXISTING UTILITY FACILITIES WITHIN THE PROJECT SHOWN ON THE PLANS ARE TO ADJUSTED TO GRADE BY THE CONTRACTOR. UTILITY COMPANIES, HOWEVER, RESERVE THE RIGHTS TO ADJUST THEIR FACILITIES TO GRAD USING THEIR OWN FORCES AFTER THE CONTRACT IS AWARDED. NO COMPENSATION WILL BE ALLOWED FOR ANY ADJUSTMENT WHICH MAY BE PERFORMED BY THE OWNER OF THE FACILITIES. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES TO HAVE THEIR STRUCTURES ADJUSTED TO GRADE OR TO OBTAIN WRITTEN PERMISSION FROM UTILITY COMPANIES TO ADJUST THEIR STRUCTURES TO GRADE.
- UTILITY REPAIR: CONTRACTOR SHALL REPAIR ANY DAMAGE OR INTERRUPTION OF UTILITIES, WATER LINES OR IRRIGATION SYSTEMS CAUSED BY CONSTRUCTION IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING EXISTING STREETS, SURROUNDING LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING AND GRADING, ETC., AND IS TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND CAL OSHA.
- WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER, OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY, OR PUBLIC PLACE, THE CONTRACTOR SHALL NOT ALLOW MATERIAL TO BLOW OR SPILL OVER AND UPON SAID PUBLIC, ADJACENT OR PRIVATE PROPERTY.
- GRADING OR ANY OTHER OPERATION THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES AND A DUST PALLIATIVE MAY BE REQUIRED BY THE CITY ENGINEER. MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. STREETS SHALL BE SWEEP AS DIRECTED BY THE CITY INSPECTOR.
- ALL NEW STORM DRAIN INLETS SHALL BE STENCILED OR STAMPED WITH THE CITY'S CLEAN WATER PROGRAM STANDARD LOGO, "NO DUMPING-DRAINS TO CREEK", PRIOR TO THE FINAL INSPECTION. COORDINATE WITH ENGINEER.
- ALL EXISTING IRRIGATION, LANDSCAPE MATERIALS, PAVEMENT DELINEATION, CURB AND GUTTER, AND OTHER IMPROVEMENTS, THAT ARE NOT TO BE REMOVED BUT ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED OR RESTORED TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE CITY.
- TREES TO REMAIN SHALL BE FLAGGED AND MARKED PRIOR TO ANY CLEARING OR GRUBBING WORK. WHERE REQUIRED BY THE CITY, PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING, REMOVAL, OR DEMO WORK. LOCATIONS OF FENCING SHALL BE DETERMINED IN THE FIELD BY THE CITY UPON COMPLETION OF THE STAKING DAYLIGHT LINES.
- TOPOGRAPHIC DATA SHOWN ON THESE PLANS BASED ON SURVEY DATA PROVIDED BY BOWMAN & WILLIAMS, OCTOBER 2018.
- ROADWAY STRUCTURAL SECTIONS SHOWN ON THESE PLANS BASED ON GEOTECHNICAL INVESTIGATION PROVIDED BY BUTANO GEOTECHNICAL ENGINEERS, JANUARY 2019.



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 WWW.KIMLEY-HORN.COM

KHA PROJECT
 097763129
 DATE
 11/22/2019
 SCALE AS SHOWN
 DESIGNED BY DW
 DRAWN BY DW
 CHECKED BY DC

**BROMMER COMPLETE STREET
 IMPROVEMENTS**
 PREPARED FOR
 CITY OF CAPITOLA
 SANTA CRUZ COUNTY CA



DATE SIGNED: Nov 20, 2019

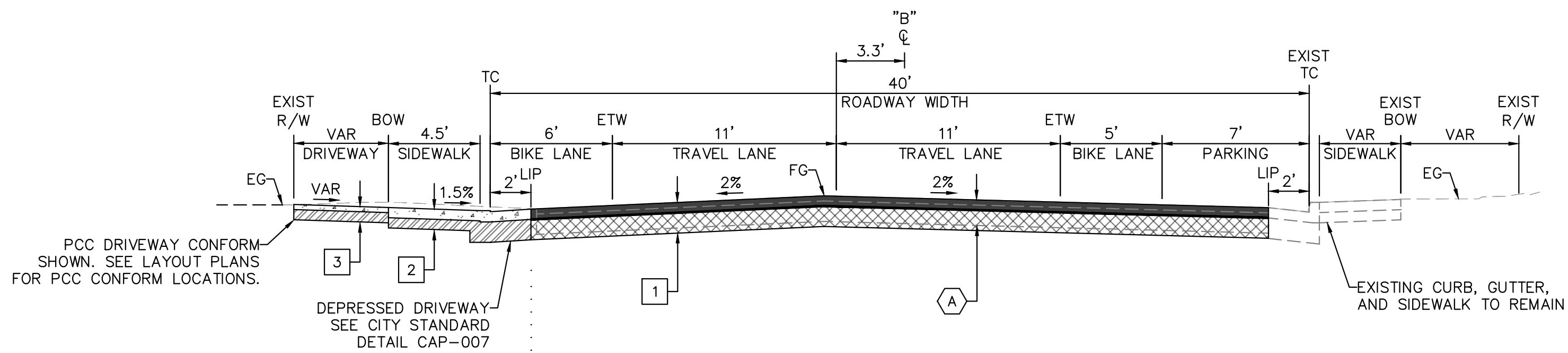
COVER SHEET

SHEET NO. 1
 OF 13 SHEETS

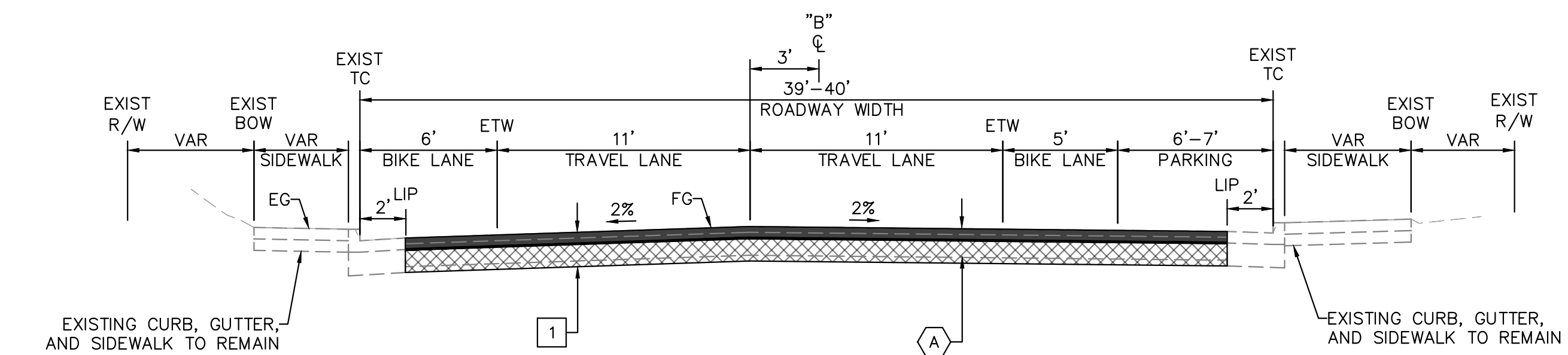
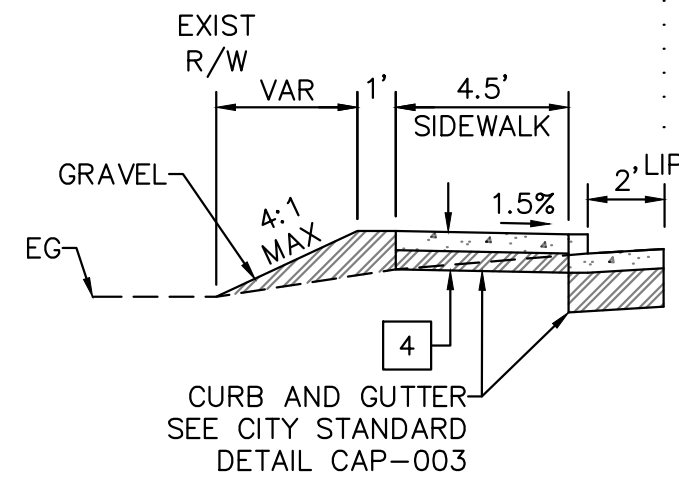
CV-1

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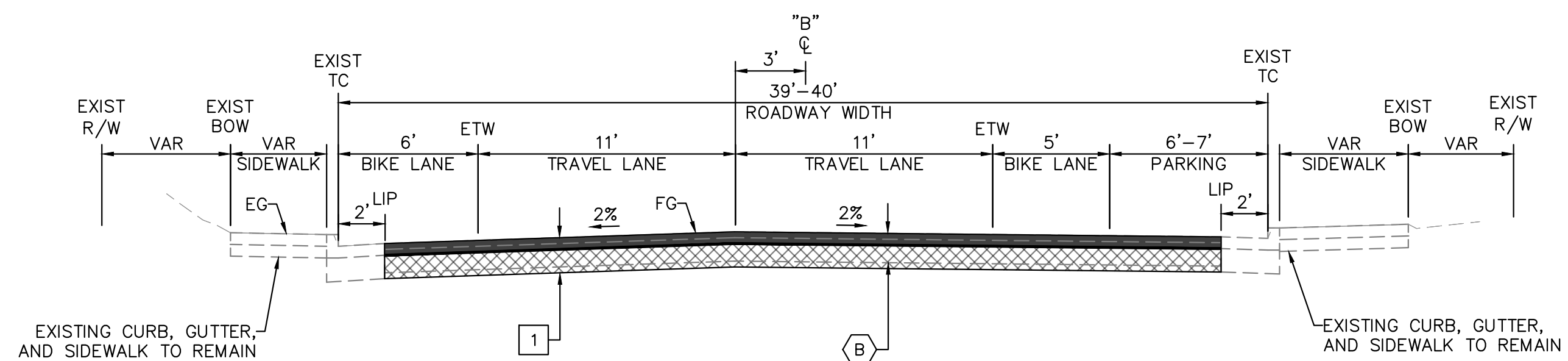
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BROMMER STREET
NO SCALE
STA 18+80.32 TO STA 22+11.84
SCHEDULE A



BROMMER STREET
NO SCALE
STA 15+59.91 TO STA 18+80.32
SCHEDULE A



BROMMER STREET
NO SCALE
STA 12+50.00 TO STA 14+75.80
SCHEDULE B

NOTES (THIS SHEET ONLY)

- EXISTING PAVEMENT STRUCTURAL SECTIONS BASED ON CORE SAMPLE DATA FROM GEOTECHNICAL INVESTIGATION BY BUTANO GEOTECHNICAL ENGINEERING DATED JANUARY 2019.
- PROPOSED PAVEMENT STRUCTURAL SECTIONS BASED ON CORE SAMPLE DATA FROM GEOTECHNICAL INVESTIGATION BY BUTANO GEOTECHNICAL ENGINEERING DATED JANUARY 2019.
- PROPOSED PAVEMENT STRUCTURAL SECTIONS SHOWN FOR SCHEDULE A AND SCHEDULE B WORK.

PAVEMENT STRUCTURAL SECTIONS

- 1 0.50' HMA (TYPE A)
- TI 8 = STRESS ABSORBING MEMBRANE LAYER (SAM)
- 1.00' FDR-C (3% CEMENT)
- 2 0.50' PCC
- 0.50' AB (CLASS 2)
- 3 0.25' PCC
- 0.50' AB (CLASS 2)
- 4 0.33' PCC
- 0.33' AB (CLASS 2)

EXISTING PAVEMENT STRUCTURAL SECTIONS

- A 0.25' HMA
- 1.16' AB (CLASS 2)
- B 0.375' HMA
- 1.08' AB (CLASS 2)

LEGEND

- PORTLAND CEMENT CONCRETE [PCC] (SIDEWALK/CURB/GUTTER/DRIVEWAY)
- AGGREGATE BASE [AB] (CLASS 2)
- HOT MIX ASPHALT [HMA] (TYPE A)
- FULL DEPTH RECLAMATION [FDR]

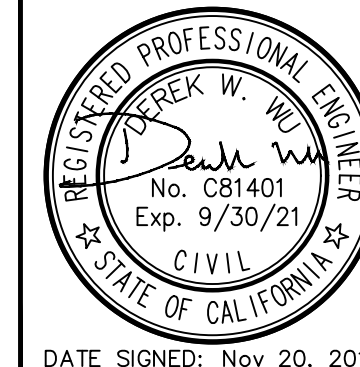


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KHA PROJECT
097763129
DATE
11/22/2019
SCALE AS SHOWN
DESIGNED BY DW
DRAWN BY DW
CHECKED BY DC

BROMMER COMPLETE STREET IMPROVEMENTS
PREPARED FOR
CITY OF CAPITOLA
SANTA CRUZ COUNTY CA

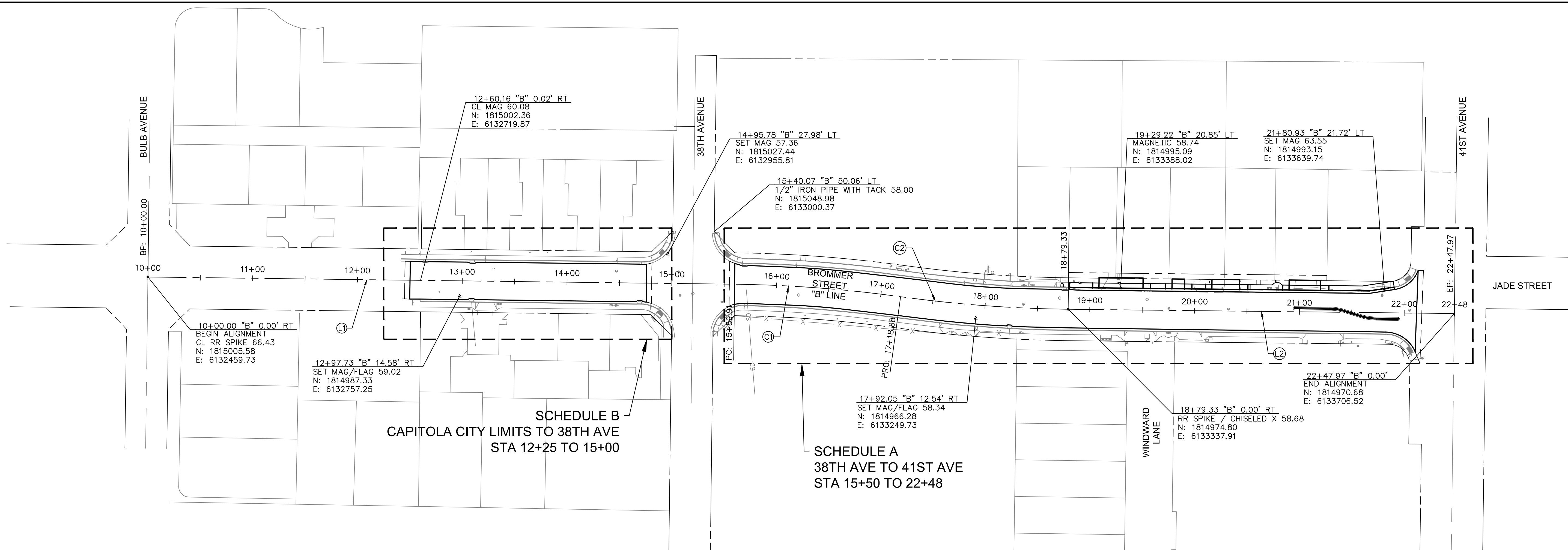


TYPICAL SECTIONS

SHEET NO. 2
OF 13 SHEETS

X-1

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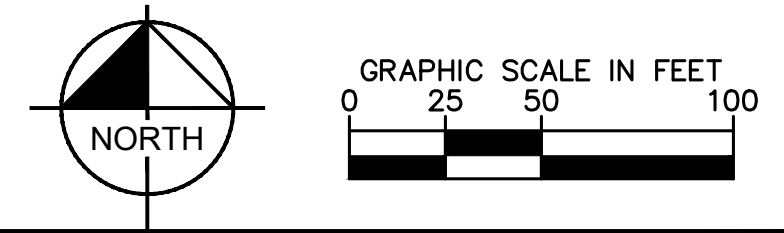


LINE	LENGTH	BEARING
L1	559.91	S89°17'35.51"E
L2	368.64	S89°21'36.14"E

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	1265.52'	158.97'	S85°41'40"E	158.87'	7°11'51"	79.59'
C2	1265.90'	160.45'	S85°43'36"E	160.34'	7°15'43"	80.33'

GENERAL PROJECT NOTES

1. THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALCULATED BEARING BETWEEN THE FOUND RAILROAD SPIKE AT THE INTERSECTION OF BULB AVENUE AND BROMMER STREET, AND THE FOUND RAILROAD SPIKE WITH CHISELED X AT THE NORTHEAST CORNER OF LOT Q, AS SHOWN ON RECORD OF SURVEY OF A PART OF BROMMER STREET, FILED IN VOLUME 47 OF MAPS AT PAGE 10 & 11, SANTA CRUZ COUNTY RECORDS =N 88°56'57" W
2. THE BASIS OF ELEVATIONS FOR THIS MAP IS THE COUNTY OF SANTA CRUZ BENCHMARK NO. 4 DESCRIPTION: PAINTED BOLT AT THE SOUTHEASTERLY BASE OF CROSSING SIGNAL AT THE NORTHWEST CORNER OF INTERSECTION OF RAILROAD AND 41ST AVENUE HELD AT ELEVATION 66.66 (NAVD88).
3. THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. ALL PROPERTY CORNERS HAVE NOT BEEN SEARCHED FOR OR LOCATED (OTHER THAN STREET MONUMENTS SHOWN ON THE SURVEY), AND NEW CORNERS OR MONUMENTS HAVE NOT BEEN SET DURING THIS SURVEY. THE BOUNDARY (PROPERTY) LINES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON RECORD MAP INFORMATION AND THE PHYSICAL LOCATION OF EXISTING IMPROVEMENTS SUCH AS CURBS, FENCE, SIDEWALKS, AND BUILDINGS. EASEMENTS ARE NOT SHOWN.
4. CONTRACTOR IS RESPONSIBLE FOR SURVEY MONUMENT PRESERVATION. PREPARE A PRE AND POST-CONSTRUCTION CORNER RECORD FOR MONUMENTS IN PROJECT CONSTRUCTION AREA.
5. THE PROJECT IS SEPARATED INTO TWO SCHEDULES. SCHEDULE A INCLUDES ALL CONSTRUCTION IMPROVEMENTS ON BROMMER STREET BETWEEN 38TH AVENUE AND 41ST AVENUE. SCHEDULE B INCLUDES ALL CONSTRUCTION IMPROVEMENTS ON BROMMER STREET BETWEEN CITY OF CAPITOLA WESTERN CITY LIMITS AND 38TH AVENUE.



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KHA PROJECT 097763129
DATE 11/22/2019
SCALE AS SHOWN
DESIGNED BY DW
DRAWN BY DW
CHECKED BY DC

BROMMER COMPLETE STREET IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA



HORIZONTAL CONTROL

DATE SIGNED: Nov 20, 2019

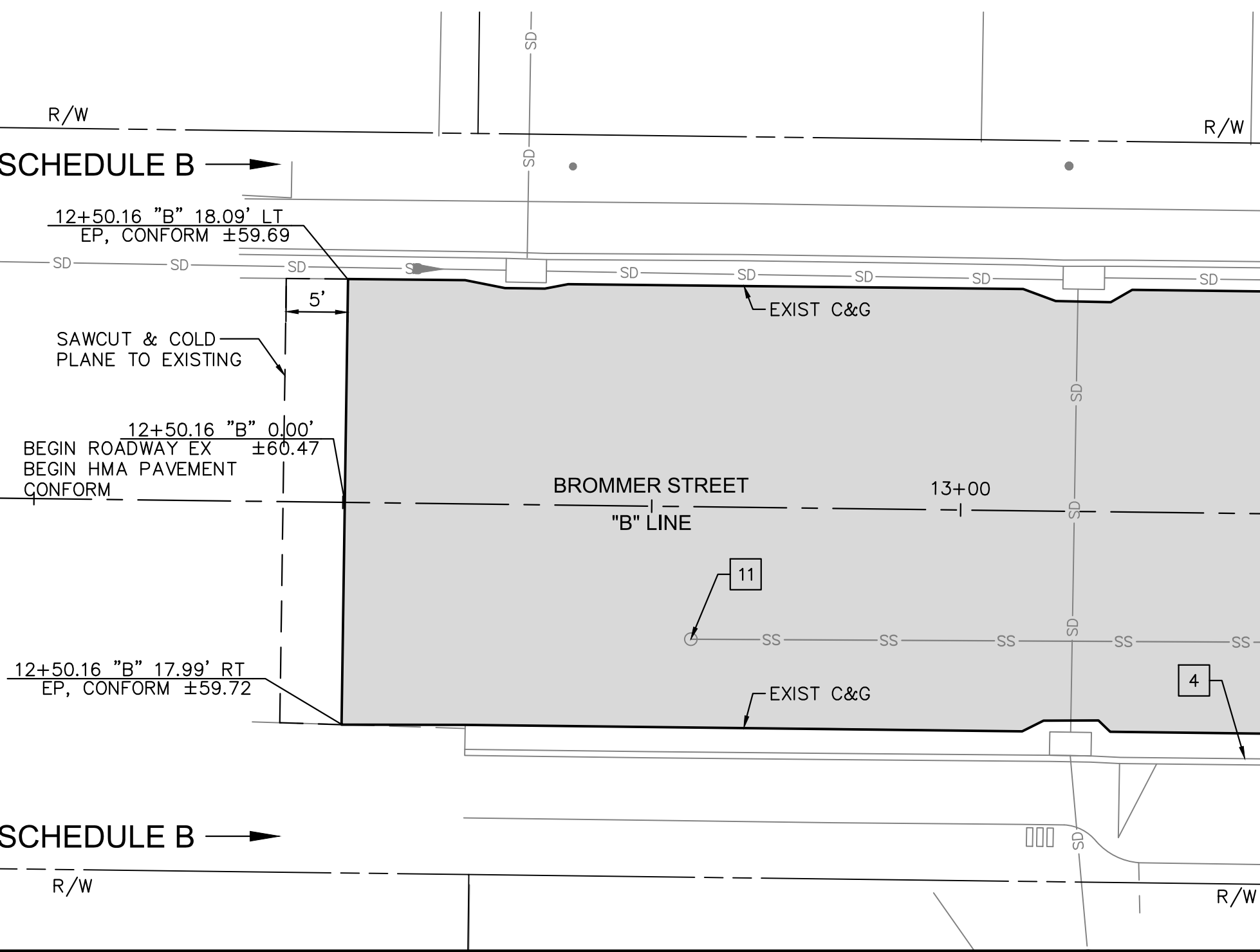
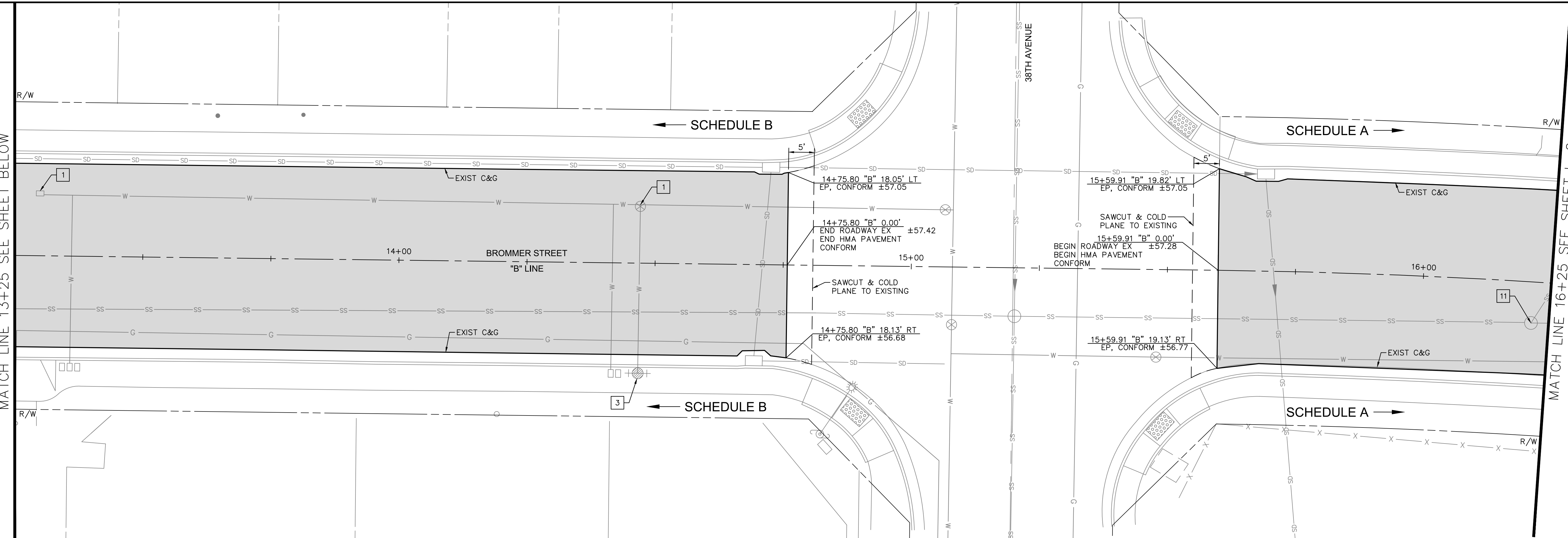
SHEET NO. 3
OF 13 SHEETS

HC-1

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MATCH LINE 13+25 SEE SHEET BELOW

MATCH LINE 16+25 SEE SHEET L-2



GENERAL CONSTRUCTION NOTES

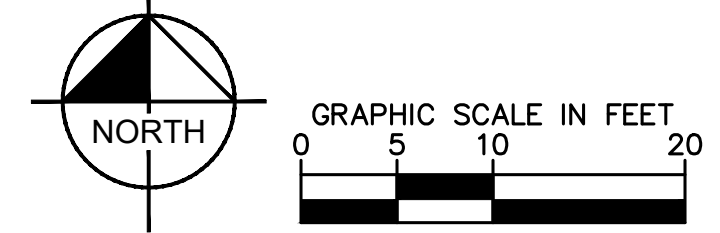
- SAWCUT SHALL BE PER CITY DETAIL CAP-002 ON A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN SHALL BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SHOWN ARE BASED ON EXISTING OG VERTICAL PROFILE ELEVATIONS AT PROPOSED LIP OF GUTTER.
- ALL STATION CALLOUTS REFERENCE "B" LINE STATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
- SEE TYPICAL SECTIONS FOR STANDARD SIDEWALK, CURB AND GUTTER, AND DRIVEWAY SECTIONS.
- SEE CONSTRUCTION DETAIL SHEETS FOR CURB, DRIVEWAY, SIDEWALK, MEDIAN, AND DRAINAGE DETAILS.
- SEE SIGNING AND STRIPING PLAN FOR PAVEMENT DELINEATION AND SIGNING DETAILS.
- ALL TREES NOT SPECIFICALLY INDICATED FOR REMOVAL SHALL BE PROTECTED IN PLACE. ANY TREES THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AT NO ADDITIONAL EXPENSE TO THE CITY.
- IF TREE ROOTS ARE ENCOUNTERED DURING EXCAVATION THEY SHALL BE PROTECTED AND A QUALIFIED ARBORIST SHALL BE ENGAGED TO PROVIDE DIRECTION TO PROTECT TREE AND ROOTS FROM DAMAGE.
- SEE TITLE AND HC-01 SHEET FOR TRANSLATION OF NORTHING AND EASTING PROJECT COORDINATES TO NORTH AMERICAN DATUM (NAVD88).
- EXISTING UTILITIES ARE PRESENT CLOSE TO THE PROPOSED WORK. CONTRACTOR SHALL POTHOLE AND FIELD LOCATE EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE PROPOSED WORK PRIOR TO THE START OF CONSTRUCTION
- UTILITIES SHOWN ARE BASED ON SCHEMATIC AS-BUILT DATA, SURFACE OBSERVATIONS OF STRUCTURES, AND USA MARKINGS FOUND IN THE FIELD. THE SURVEY ASSUMES NO RESPONSIBILITY FOR LOCATIONS, CAPACITIES, OR FUNCTIONALITY OF ALL UTILITIES SHOWN HEREON. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN.
- REMOVE EXISTING DETECTOR LOOPS AT BROMMER/41ST AVE WEST INTERSECTION LEG. SAWCUT AND INSTALL PROPOSED DETECTOR LOOPS AS SHOWN PER CALTRANS STANDARD PLAN ES-5A AND ES-5B.
- SPLICE EXISTING DLC WITH NEW DETECTOR LOOP WIRE AT TRAFFIC SIGNAL PULL BOX.

LEGEND

- HMA (SEE TYPICAL SECTIONS)
- PCC (CURB/GUTTER/SIDEWALK/DRIVEWAY)
- PCC (DRIVEWAY CONFORM)
- GRAVEL
- SAWCUT
- G— GAS LINE
- OH— OVERHEAD UTILITY LINE(S)
- SS— SANITARY SEWER LINE
- SD— STORM DRAIN LINE
- W— WATER LINE
- (XX/XX) DETAIL NO. / SHEET REFERENCE
- C&G CURB AND GUTTER

CONSTRUCTION NOTES

- ADJUST EXISTING WATER MANHOLES TO GRADE
- EXISTING UTILITY POLE TO REMAIN
- EXISTING FIRE HYDRANT TO REMAIN
- EXISTING DRIVEWAY TO REMAIN
- EXISTING FENCE TO REMAIN
- DRIVEWAY CONFORM (PCC)
- ADJUST EXISTING WATER VALVE BOXES TO GRADE
- RELOCATE EXISTING MAILBOX
- CALTRANS TYPE A LOOP DETECTOR
- CALTRANS TYPE D LOOP DETECTOR
- ADJUST EXISTING SANITARY SEWER MANHOLES TO GRADE

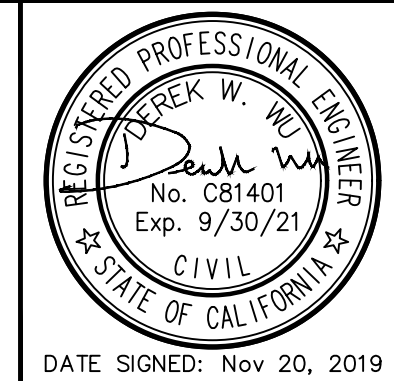


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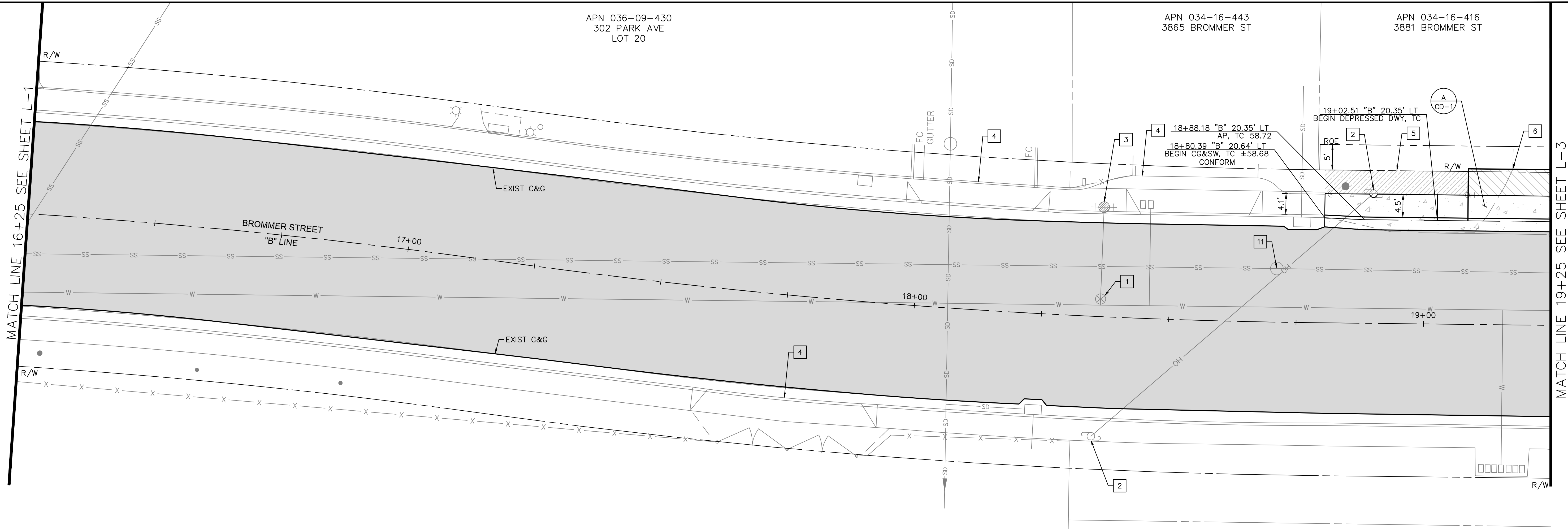
BROMMER COMPLETE STREET IMPROVEMENTS
 PREPARED FOR
CITY OF CAPITOLA
 SANTA CRUZ COUNTY CA



LAYOUT PLAN

SHEET NO. 4
 OF 13 SHEETS
L-1

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LEGEND

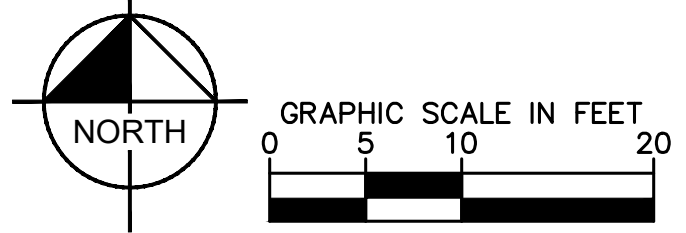
- HMA (SEE TYPICAL SECTIONS)
- PCC (CURB/GUTTER/SIDEWALK/DRIVEWAY)
- PCC (DRIVEWAY CONFORM)
- GRAVEL
- SAWCUT
- G — GAS LINE
- OH — OVERHEAD UTILITY LINE(S)
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- W — WATER LINE
- XX / XX — DETAIL NO. / SHEET REFERENCE
- C&G CURB AND GUTTER

CONSTRUCTION NOTES

- 1** ADJUST EXISTING WATER MANHOLES TO GRADE
- 2** EXISTING UTILITY POLE TO REMAIN
- 3** EXISTING FIRE HYDRANT TO REMAIN
- 4** EXISTING DRIVEWAY TO REMAIN
- 5** EXISTING FENCE TO REMAIN
- 6** DRIVEWAY CONFORM (PCC)
- 7** ADJUST EXISTING WATER VALVE BOXES TO GRADE
- 8** RELOCATE EXISTING MAILBOX
- 9** CALTRANS TYPE A LOOP DETECTOR
- 10** CALTRANS TYPE D LOOP DETECTOR
- 11** ADJUST EXISTING SANITARY SEWER MANHOLES TO GRADE

GENERAL CONSTRUCTION NOTES

1. SAWCUT SHALL BE PER CITY DETAIL CAP-002 ON A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN SHALL BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SHOWN ARE BASED ON EXISTING OG VERTICAL PROFILE ELEVATIONS AT PROPOSED LIP OF GUTTER.
3. ALL STATION CALLOUTS REFERENCE "B" LINE STATIONS, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
5. SEE TYPICAL SECTIONS FOR STANDARD SIDEWALK, CURB AND GUTTER, AND DRIVEWAY SECTIONS.
6. SEE CONSTRUCTION DETAIL SHEETS FOR CURB, DRIVEWAY, SIDEWALK, MEDIAN, AND DRAINAGE DETAILS.
7. SEE SIGNING AND STRIPING PLAN FOR PAVEMENT DELINEATION AND SIGNING DETAILS.
8. ALL TREES NOT SPECIFICALLY INDICATED FOR REMOVAL SHALL BE PROTECTED IN PLACE. ANY TREES THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AT NO ADDITIONAL EXPENSE TO THE CITY.
9. IF TREE ROOTS ARE ENCOUNTERED DURING EXCAVATION THEY SHALL BE PROTECTED AND A QUALIFIED ARBORIST SHALL BE ENGAGED TO PROVIDE DIRECTION TO PROTECT TREE AND ROOTS FROM DAMAGE.
10. SEE TITLE AND HC-01 SHEET FOR TRANSLATION OF NORTHING AND EASTING PROJECT COORDINATES TO NORTH AMERICAN DATUM (NAVD88).
11. EXISTING UTILITIES ARE PRESENT CLOSE TO THE PROPOSED WORK. CONTRACTOR SHALL POTHOLE AND FIELD LOCATE EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE PROPOSED WORK PRIOR TO THE START OF CONSTRUCTION
12. UTILITIES SHOWN ARE BASED ON SCHEMATIC AS-BUILT DATA, SURFACE OBSERVATIONS OF STRUCTURES, AND USA MARKINGS FOUND IN THE FIELD. THE SURVEY ASSUMES NO RESPONSIBILITY FOR LOCATIONS, CAPACITIES, OR FUNCTIONALITY OF ALL UTILITIES SHOWN HEREON. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN.
13. REMOVE EXISTING DETECTOR LOOPS AT BROMMER/41ST AVE WEST INTERSECTION LEG. SAWCUT AND INSTALL PROPOSED DETECTOR LOOPS AS SHOWN PER CALTRANS STANDARD PLAN ES-5A AND ES-5B.
14. SPLICE EXISTING DLC WITH NEW DETECTOR LOOP WIRE AT TRAFFIC SIGNAL PULL BOX.

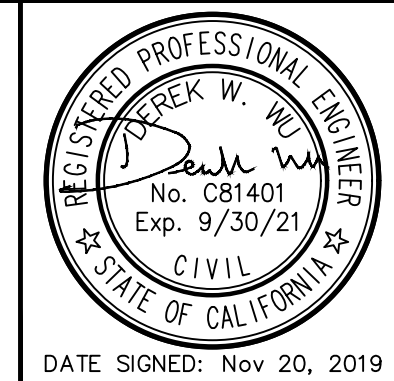


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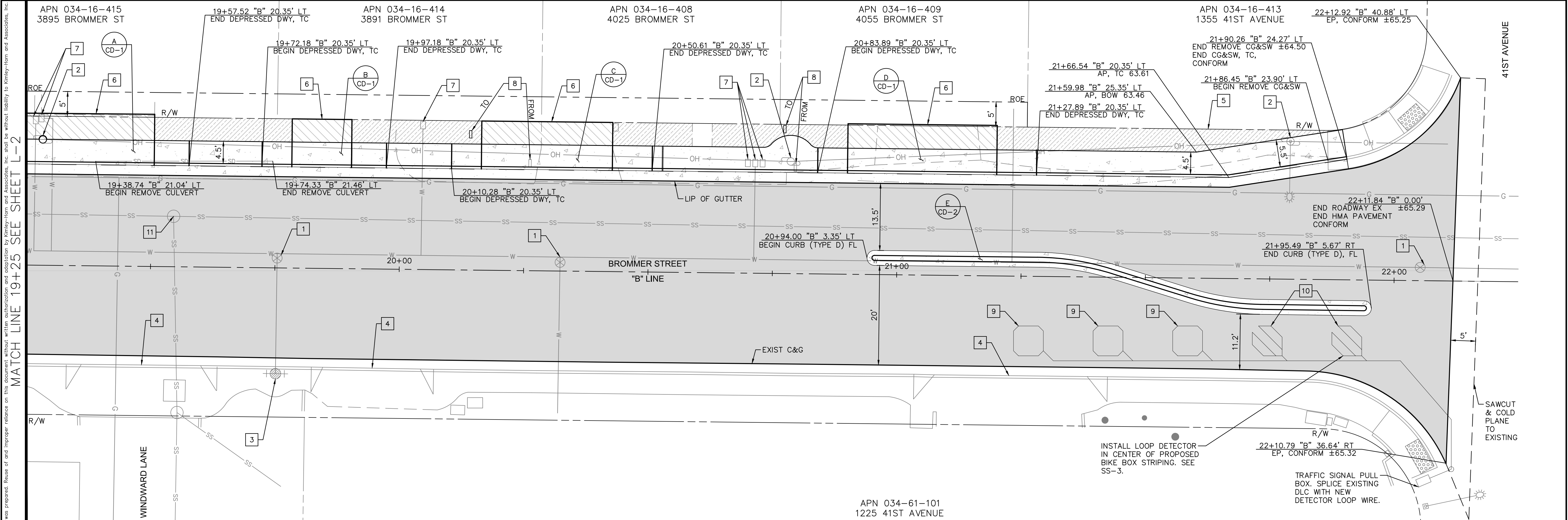
KHA PROJECT 097763129
DATE 11/22/2019
SCALE AS SHOWN
DESIGNED BY DW
DRAWN BY DW
CHECKED BY DC

BROMMER COMPLETE STREET IMPROVEMENTS
 PREPARED FOR
CITY OF CAPITOLA
 SANTA CRUZ COUNTY CA



LAYOUT PLAN

SHEET NO. 5
 OF 13 SHEETS
L-2



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MATCH LINE 19+25 SEE SHEET L-2

LEGEND

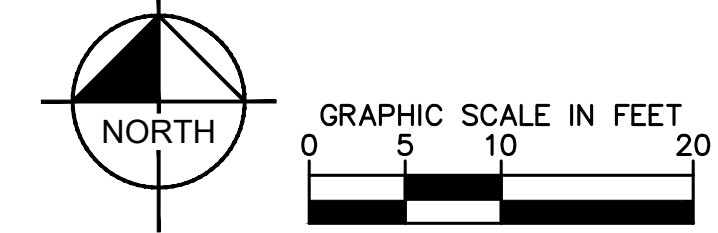
- HMA (SEE TYPICAL SECTIONS)
- PCC (CURB/GUTTER/SIDEWALK/DRIVEWAY)
- PCC (DRIVEWAY CONFORM)
- GRAVEL
- SAWCUT
- G — GAS LINE
- OH — OVERHEAD UTILITY LINE(S)
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- W — WATER LINE
- $\frac{XX}{XX}$ DETAIL NO. / SHEET REFERENCE
- C&G CURB AND GUTTER

CONSTRUCTION NOTES

- 1** ADJUST EXISTING WATER MANHOLES TO GRADE
- 2** EXISTING UTILITY POLE TO REMAIN
- 3** EXISTING FIRE HYDRANT TO REMAIN
- 4** EXISTING DRIVEWAY TO REMAIN
- 5** EXISTING FENCE TO REMAIN
- 6** DRIVEWAY CONFORM (PCC)
- 7** ADJUST EXISTING WATER VALVE BOXES TO GRADE
- 8** RELOCATE EXISTING MAILBOX
- 9** CALTRANS TYPE A LOOP DETECTOR
- 10** CALTRANS TYPE D LOOP DETECTOR
- 11** ADJUST EXISTING SANITARY SEWER MANHOLES TO GRADE

GENERAL CONSTRUCTION NOTES

1. SAWCUT SHALL BE PER CITY DETAIL CAP-002 ON A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN SHALL BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SHOWN ARE BASED ON EXISTING OG VERTICAL PROFILE ELEVATIONS AT PROPOSED LIP OF GUTTER.
3. ALL STATION CALLOUTS REFERENCE "B" LINE STATIONS, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
5. SEE TYPICAL SECTIONS FOR STANDARD SIDEWALK, CURB AND GUTTER, AND DRIVEWAY SECTIONS.
6. SEE CONSTRUCTION DETAIL SHEETS FOR CURB, DRIVEWAY, SIDEWALK, MEDIAN, AND DRAINAGE DETAILS.
7. SEE SIGNING AND STRIPING PLAN FOR PAVEMENT DELINEATION AND SIGNING DETAILS.
8. ALL TREES NOT SPECIFICALLY INDICATED FOR REMOVAL SHALL BE PROTECTED IN PLACE. ANY TREES THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AT NO ADDITIONAL EXPENSE TO THE CITY.
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KHA PROJECT
097763129
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BROMMER COMPLETE STREET IMPROVEMENTS
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 SANTA CRUZ COUNTY CA

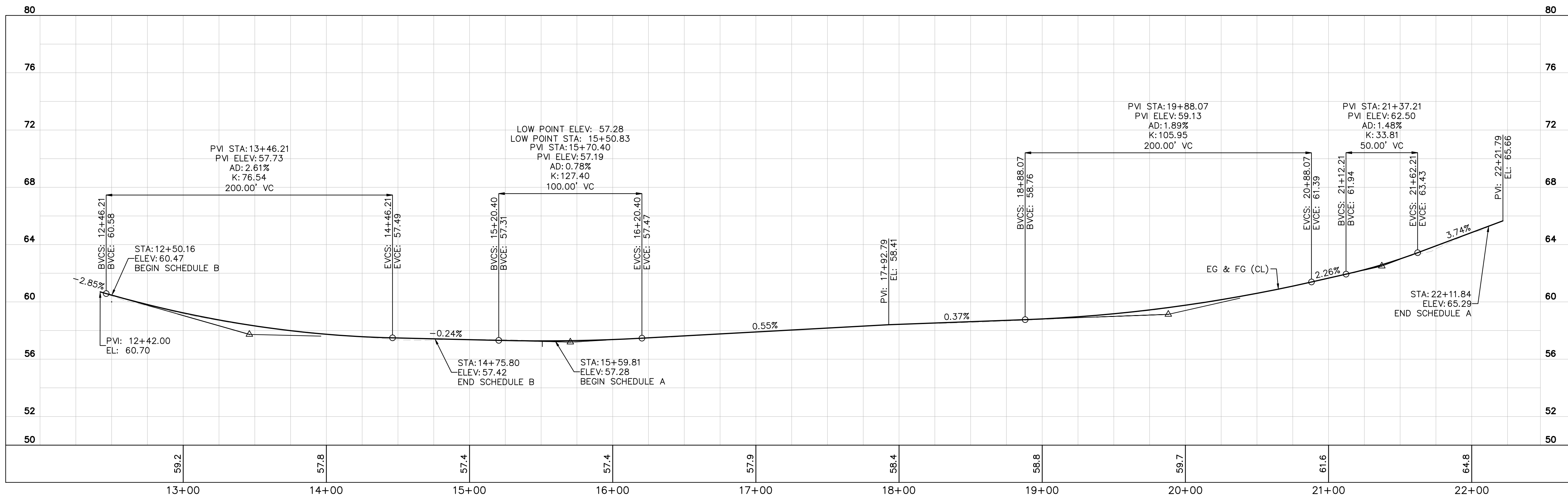


LAYOUT PLAN

SHEET NO. 6
OF 13 SHEETS

L-3

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**"B LINE"
BROMMER STREET**

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" = 4'

GENERAL PROFILE NOTES

- EXISTING CENTERLINE PROFILE SHOWN IS APPROXIMATE BASED ON TOPOGRAPHIC DATA PROVIDED BY BOWMAN & WILLIAMS, OCTOBER 2018



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DATE	11/22/2019
SCALE	AS SHOWN
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**BROMMER COMPLETE STREET
IMPROVEMENTS**
PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY



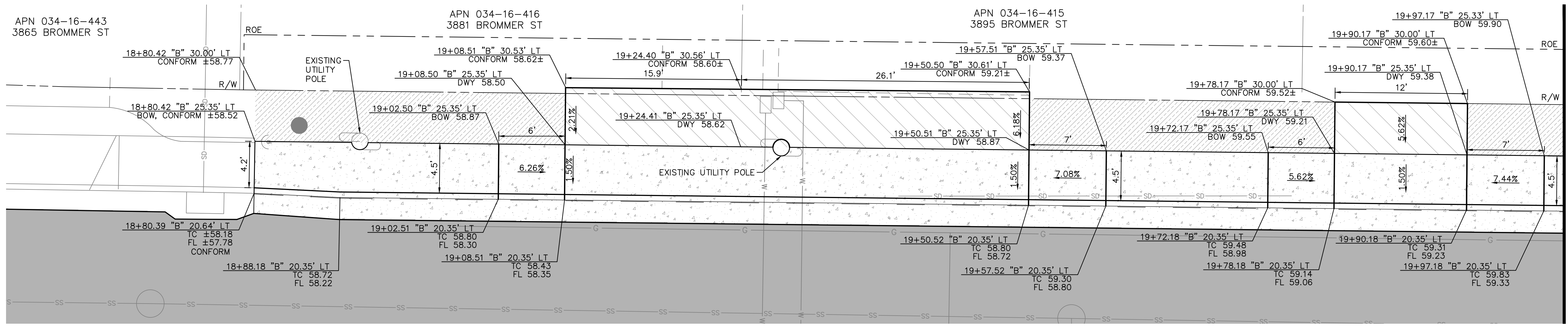
DATE SIGNED: Nov 20, 2019

ROADWAY PROFILE

SHEET NO. 7
OF 13 SHEETS

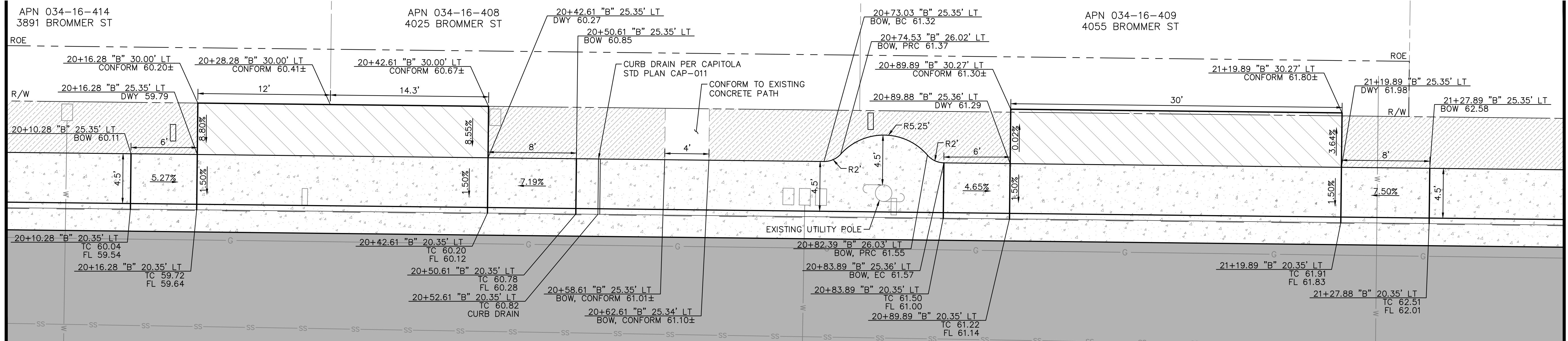
P-1

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DRIVEWAY DETAIL A

DRIVEWAY DETAIL B

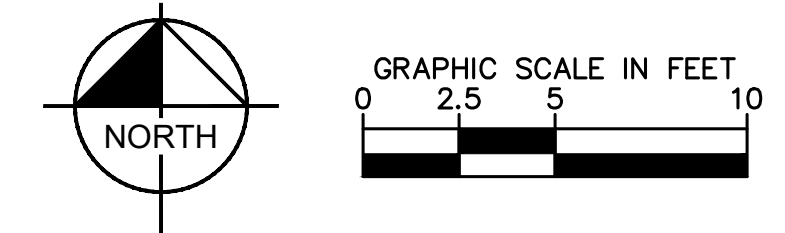


DRIVEWAY DETAIL C

DRIVEWAY DETAIL D

LEGEND

- HMA (SEE TYPICAL SECTIONS)
- PCC (CURB/GUTTER/SIDEWALK/DRIVEWAY)
- PCC (DRIVEWAY CONFORM)
- GRAVEL
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- G- GAS LINE
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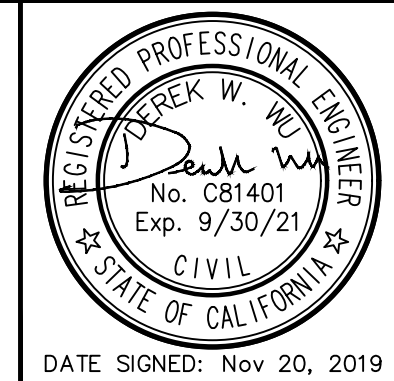
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PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA



CONSTRUCTION DETAILS

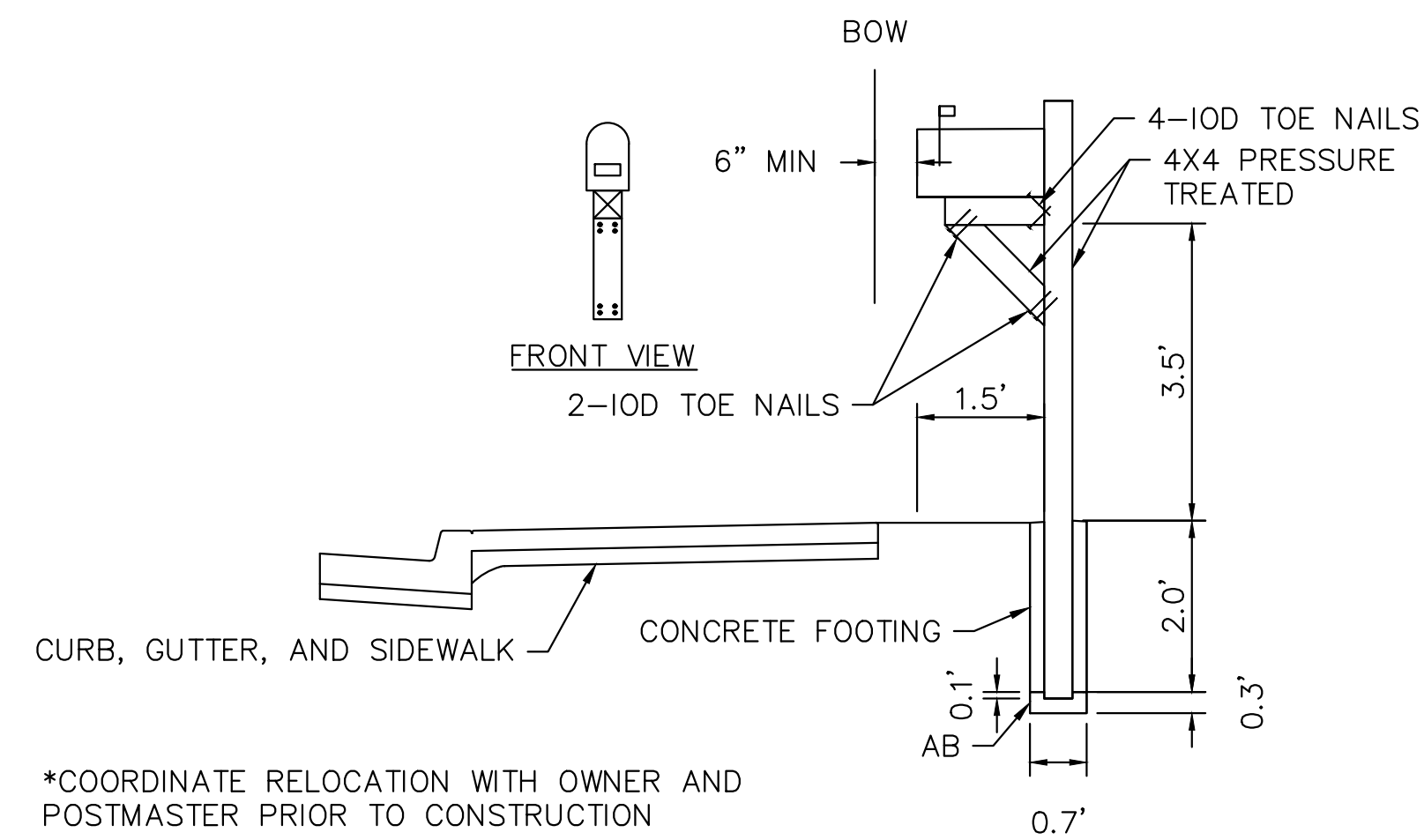
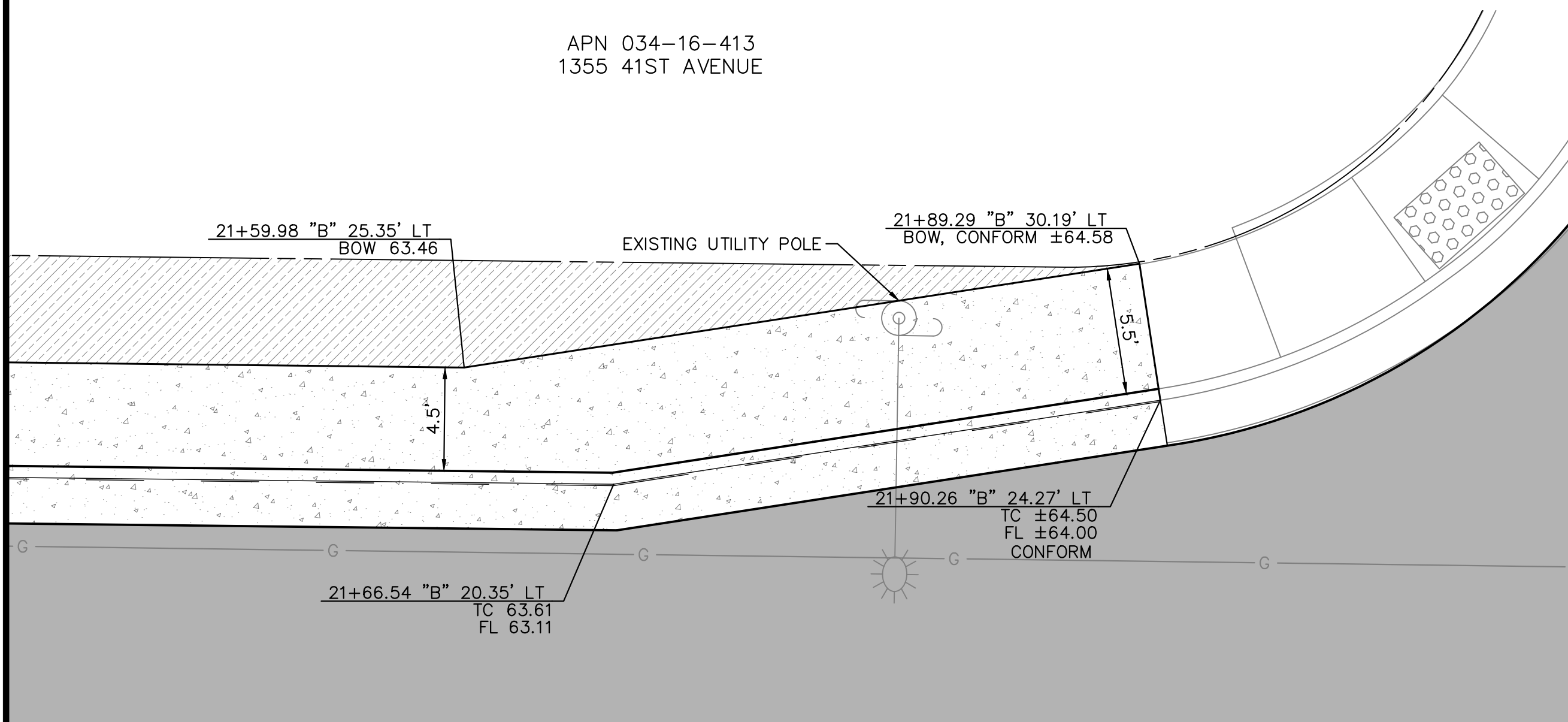
SHEET NO. 8
OF 13 SHEETS

CD-1

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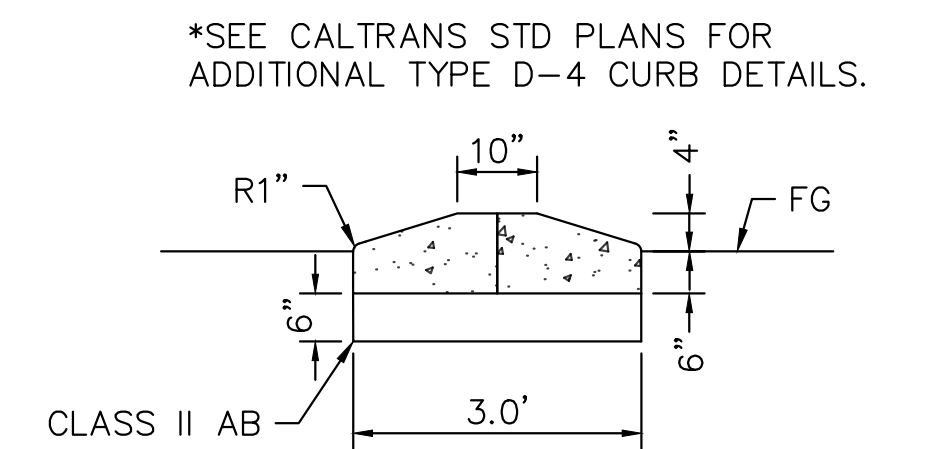
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1355 41ST AVENUE

MATCH LINE SEE SHEET CD-1



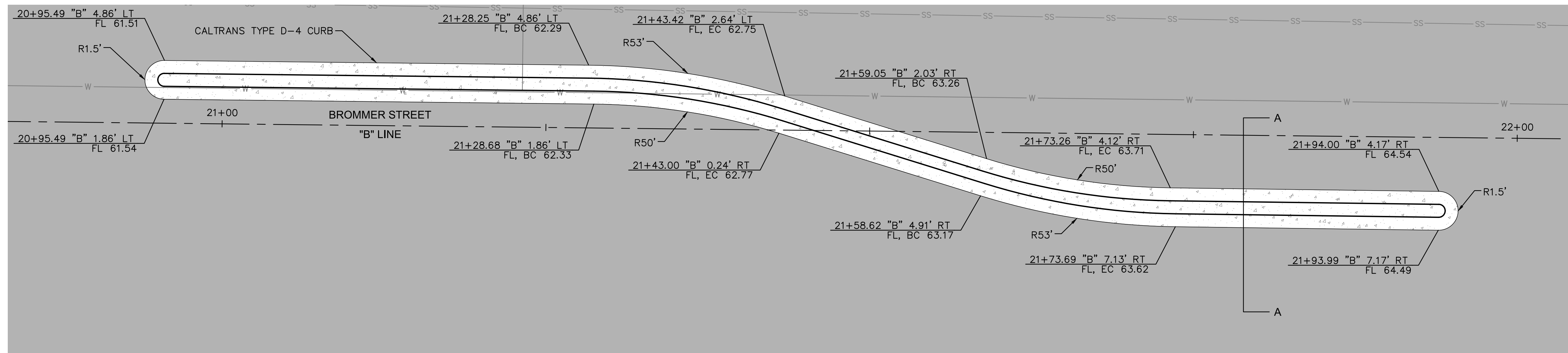
RELOCATE MAILBOX

NO SCALE

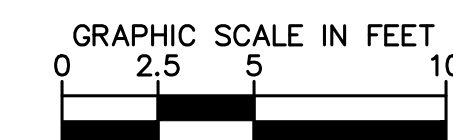
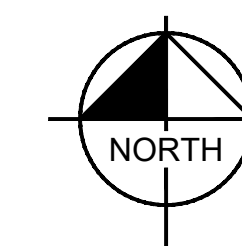


**SECTION A-A-
TYPE D-4 CURB**

NO SCALE



MEDIAN DETAIL E



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097763129

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SCALE AS SHOWN

DESIGNED BY DW

DRAWN BY DW

CHECKED BY DC

**BROMMER COMPLETE STREET
IMPROVEMENTS**

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY

REGISTERED PROFESSIONAL ENGINEER

DAVID W. HORN

No. C81401
Exp. 9/30/21

CIVIL

STATE OF CALIFORNIA

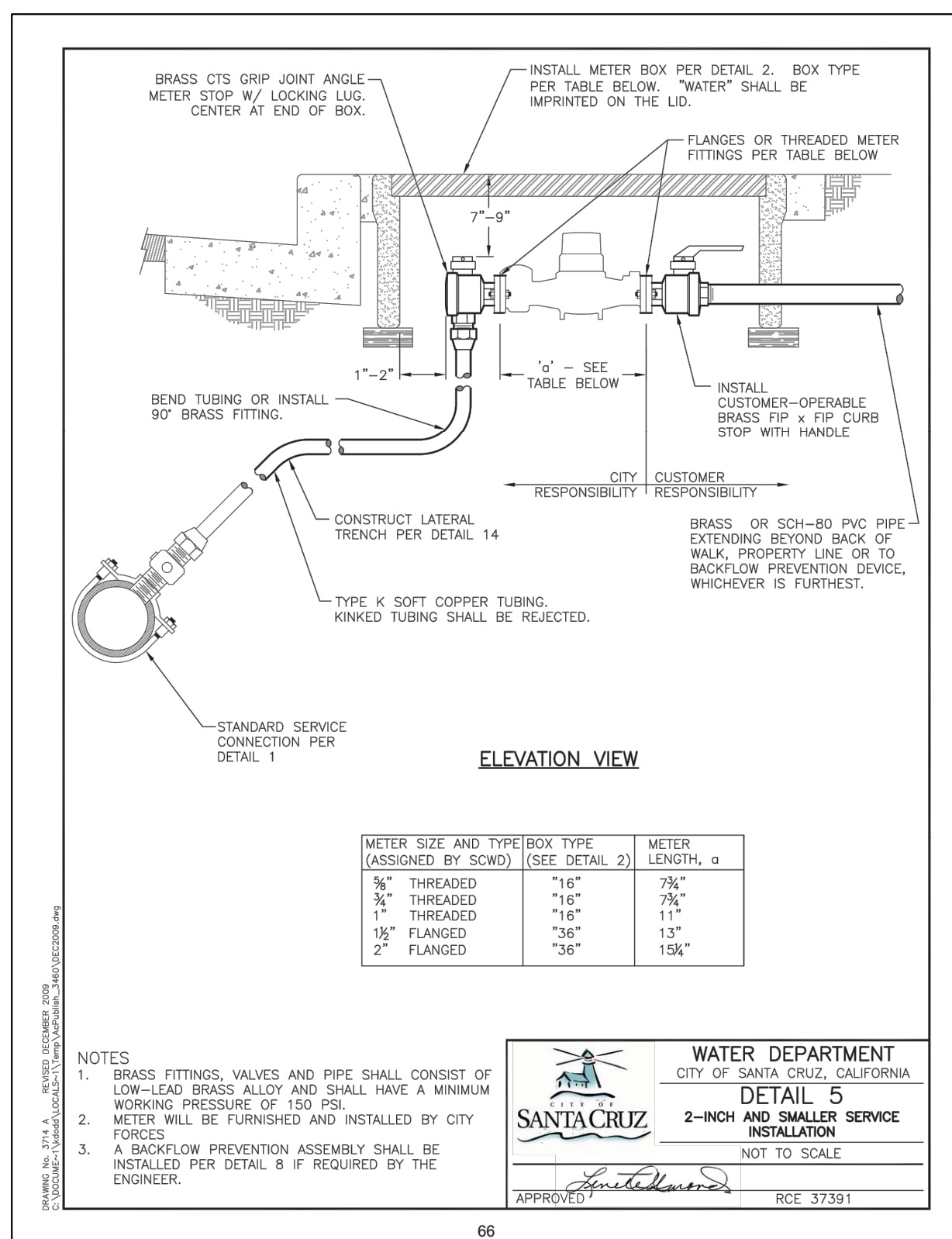
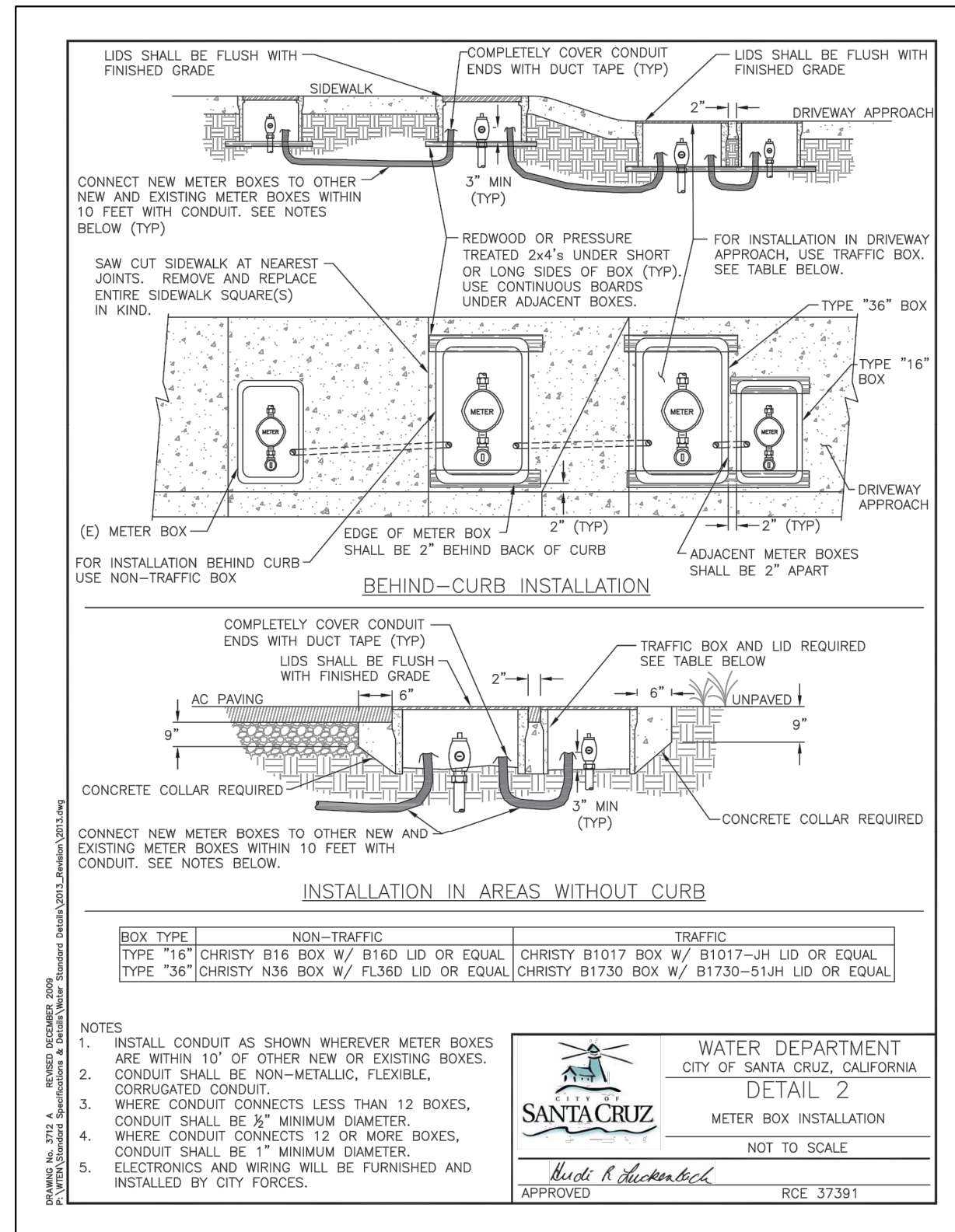
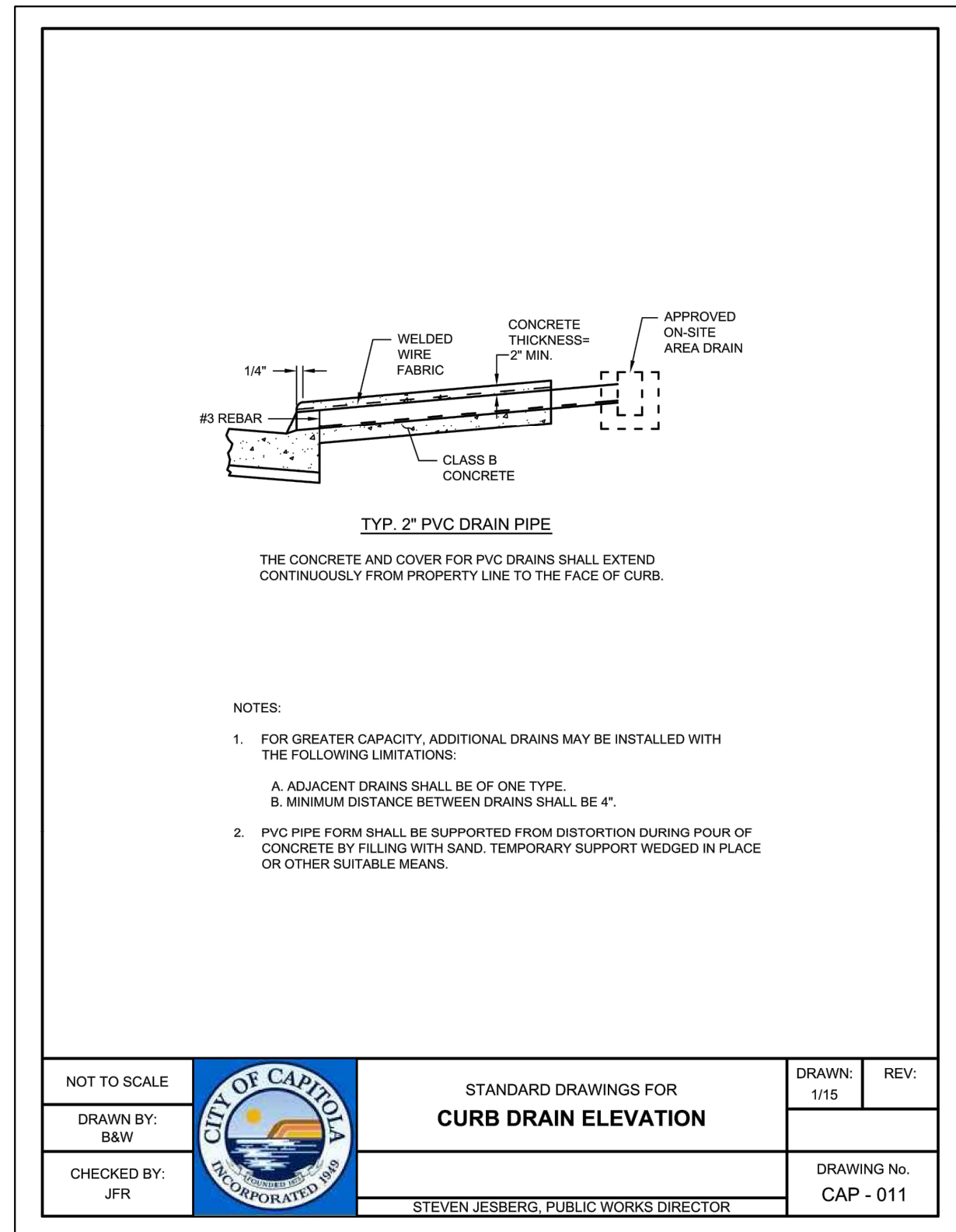
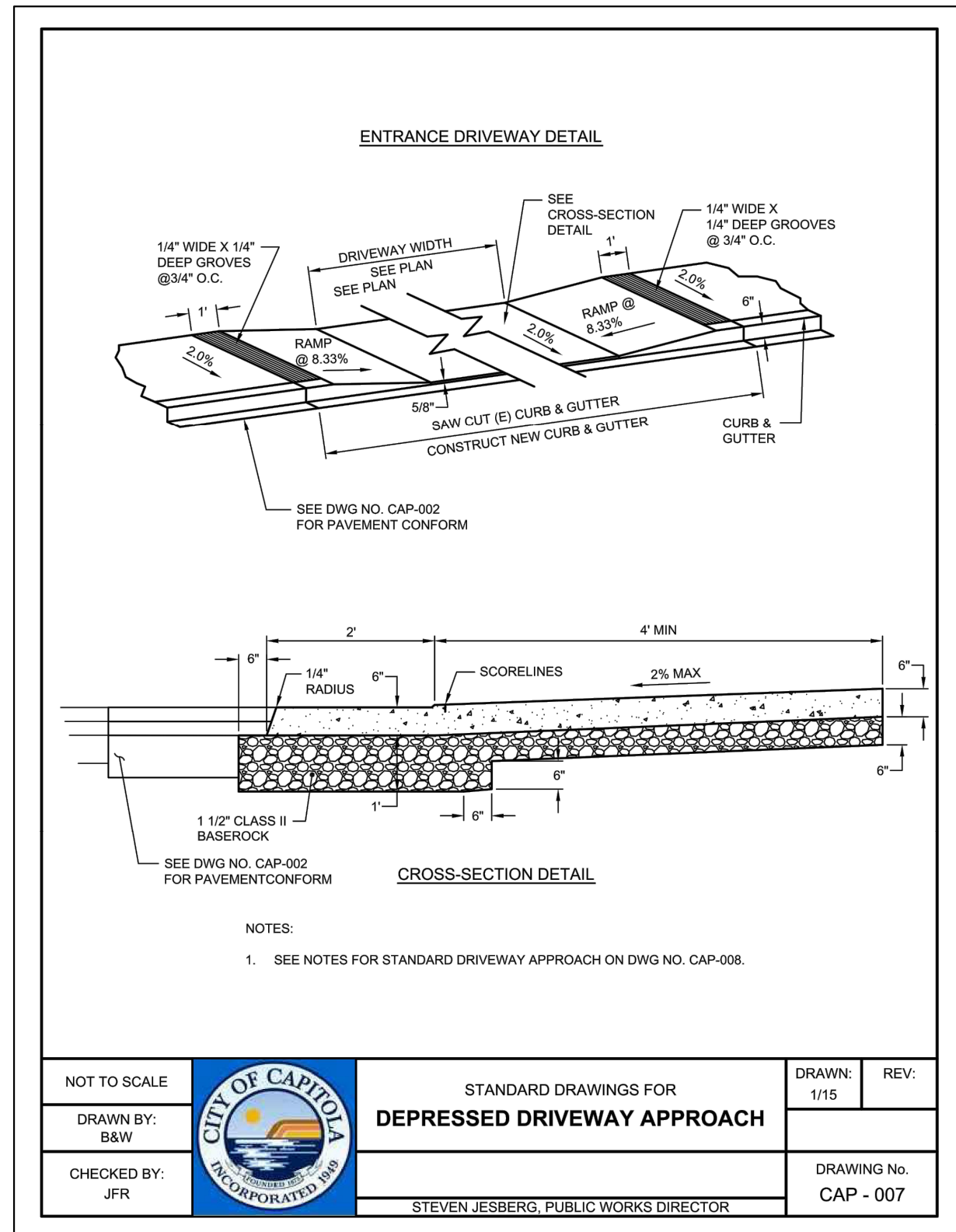
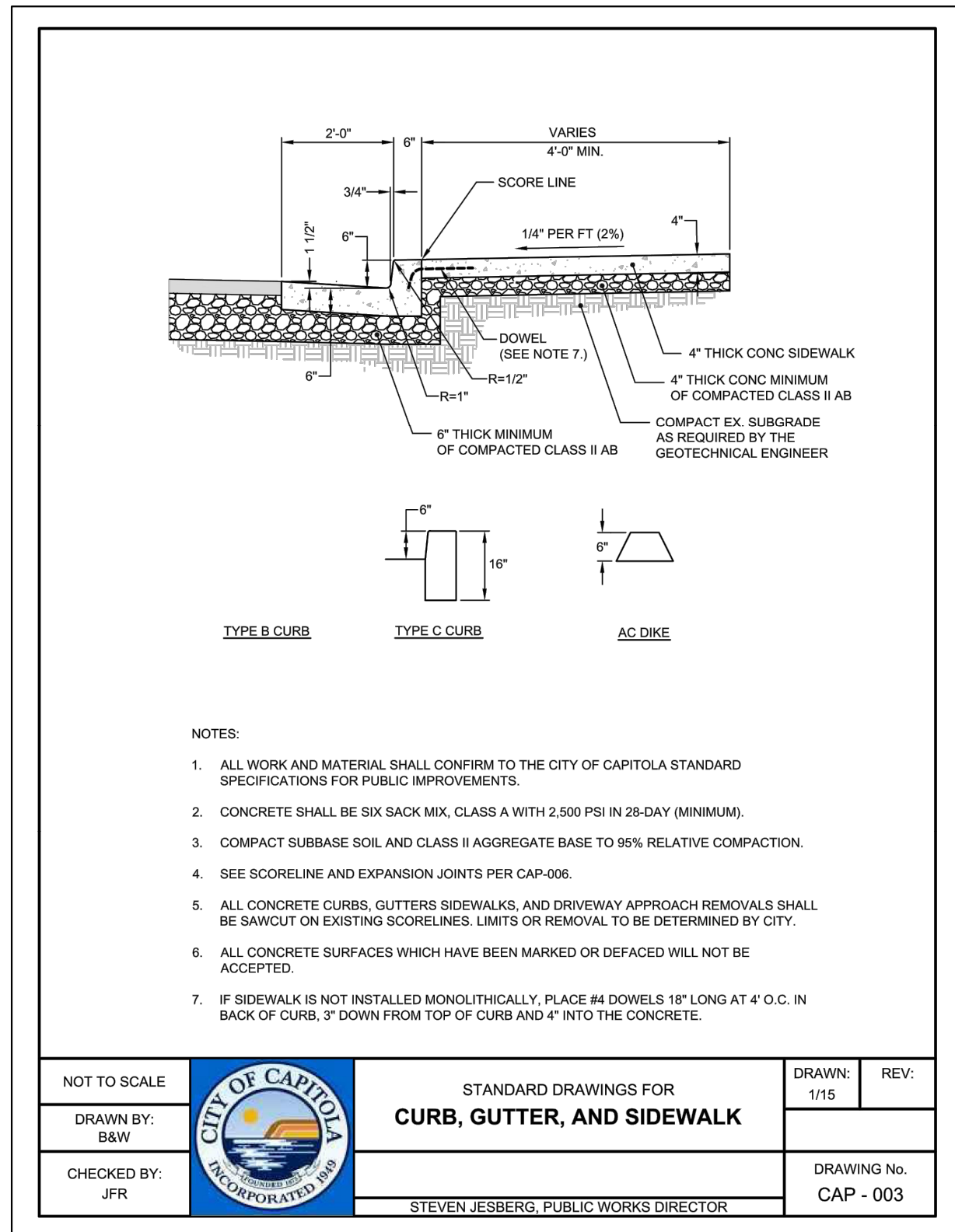
DATE SIGNED: Nov 20, 2019

CONSTRUCTION DETAILS

SHEET NO. 9
OF 13 SHEETS

CD-2

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BROMMER COMPLETE STREET IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA



CONSTRUCTION DETAILS

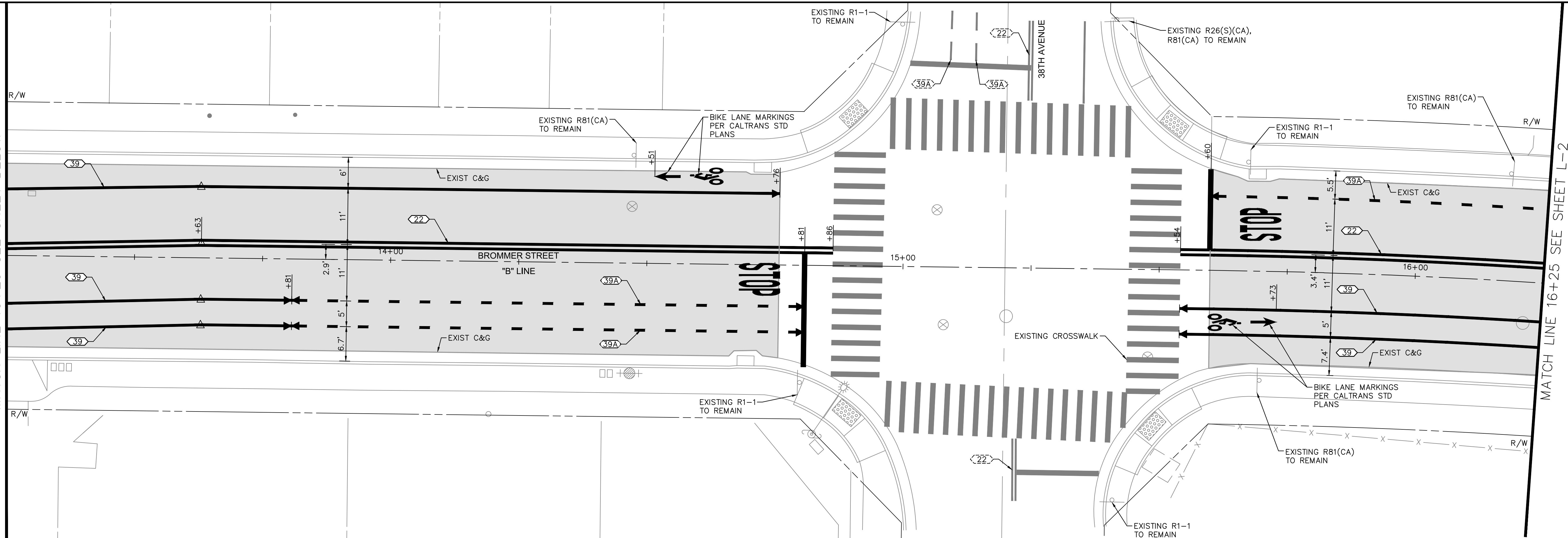
SHEET NO. 10
OF 13 SHEETS

CD-3

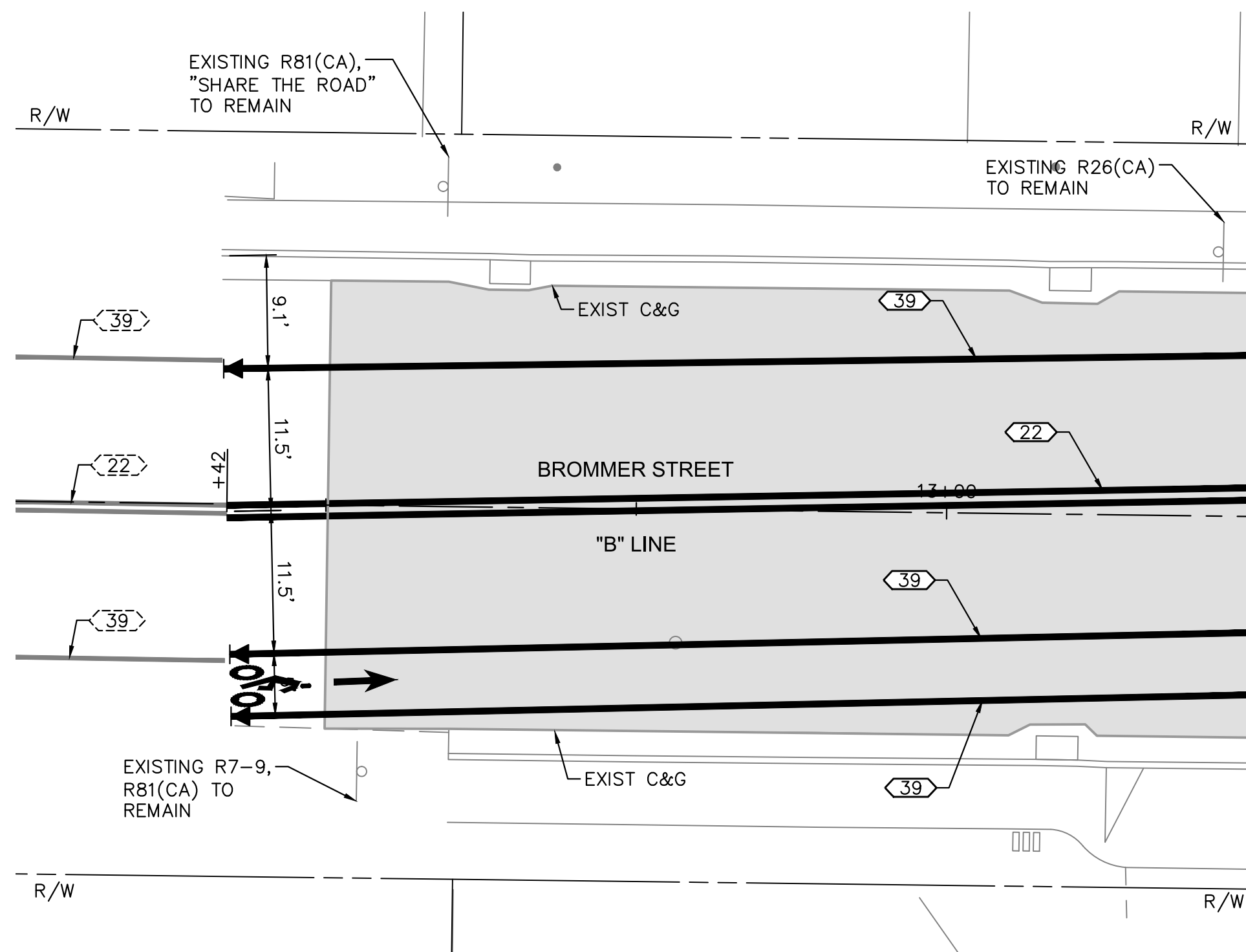


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MATCH LINE 13+25 SEE SHEET BELOW



MATCH LINE 16+25 SEE SHEET L-2



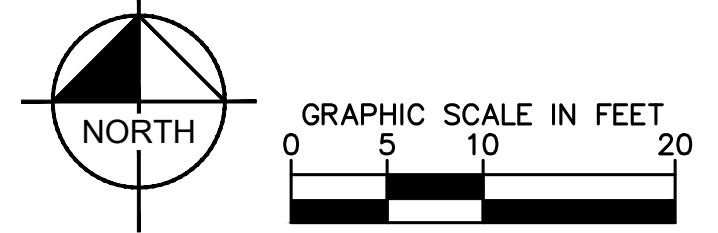
MATCH LINE 13+25 SEE ABOVE

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- EXISTING STRIPING DETAIL
- PROPOSED STRIPING DETAIL
- STRIPING CHANGE
- STRIPING LIMIT
- ANGLE POINT
- PAVEMENT MARKING

GENERAL SIGNING AND STRIPING NOTES

1. ALL STATION CALLOUTS REFERENCE "B" LINE STATIONS, UNLESS OTHERWISE NOTED.
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5. ALL PAVEMENT DELINEATION MUST BE IN ACCORDANCE WITH CURRENT VERSION OF THE CALIFORNIA MUTCD AND 2018 CALTRANS STANDARD PLANS.
6. ALL STRIPING DIMENSIONS SHOWN ARE MEASURED FROM STRIPE TO STRIPE, STRIPE TO TOP OF CURB, OR STRIPE TO FACE OF CURB WHICHEVER SCENARIO IS CLOSER.
7. STREET SIGN POSTS SHALL BE INSTALLED PER CITY OF CAPITOLA DETAIL CAP-014 AND CAP-015.



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BROMMER COMPLETE STREET IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA

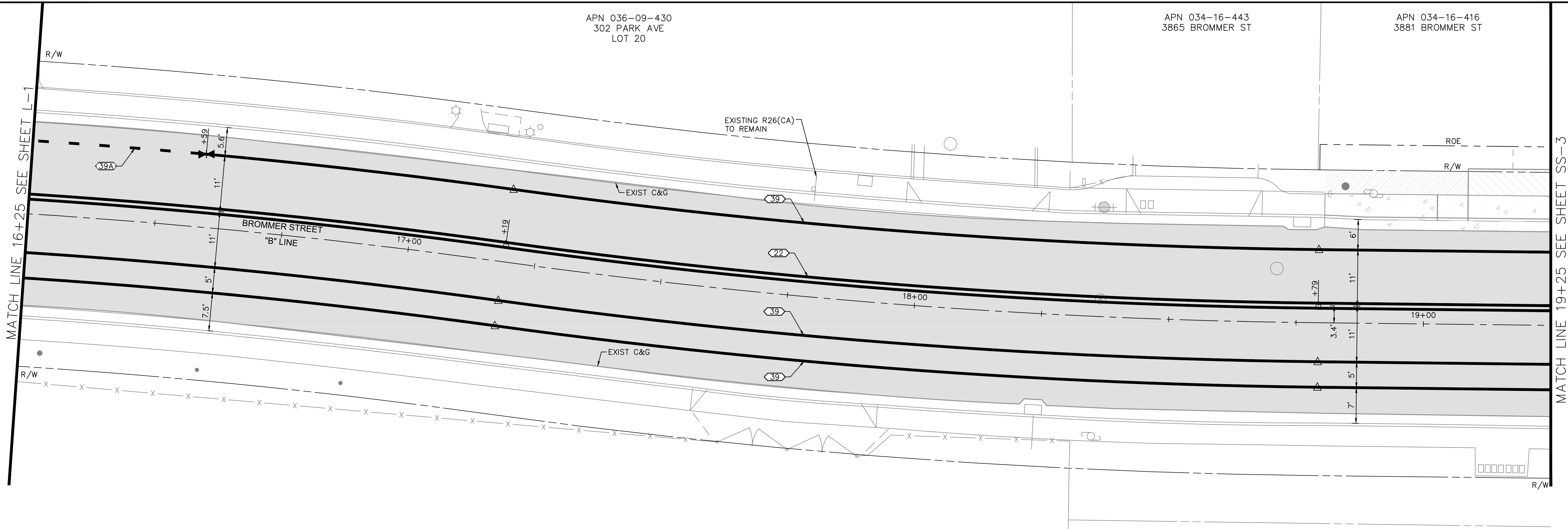


SIGNING AND STRIPING PLAN

SHEET NO. 11
OF 13 SHEETS

SS-1

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LEGEND

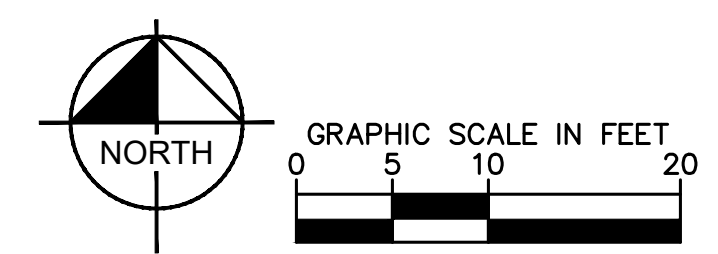
- +— EXISTING SIGN
- + PROPOSED SIGN
- (XX) EXISTING STRIPING DETAIL
- (XX) PROPOSED STRIPING DETAIL
- ▲ STRIPING CHANGE
- ▶ STRIPING LIMIT
- △ ANGLE POINT
- PM PAVEMENT MARKING

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STRIPING AND MARKING SCHEDULE			
DETAIL	PATTERN OR LEGEND	LF	SQFT
22	CENTERLINE	1567	-
25	LEFT EDGELINE & 6" DIAGONAL	188	-
39	BIKE LANE LINE	1999	-
39A	INTERSECTION LINE (BIKE LANE)	333	-
PM	"STOP" MARKING	-	44
PM	"KEEP CLEAR" MARKING	-	51
PM	TYPE VIII ARROW	-	36
PM	CONTINENTAL CROSSWALK MARKING	-	194
PM	STOP BAR MARKING	-	86
PM	BIKE SYMBOL/ARROW MARKING	-	30
PM	SHARROW MARKING	-	24
PM	GREEN PAINT FOR BIKE LANE & BOX	-	201
TOTAL		4087	666.0

SIGN SCHEDULE			
DETAIL	STATION	DESCRIPTION	EA
R3-2	21+14	NO LEFT TURN	1
R3-7bP	21+85	EXCEPT BICYCLES	1
R4-7	20+94	KEEP RIGHT	1
R4-11	20+94	BIKES MAY USE FULL LANE	1
R10-6A	21+85	STOP HERE ON RED	1
R10-11A	22+48	NO TURN ON RED	1
R26(CA)	21+36	NO PARKING	1
R81(CA)	20+94, 21+62	BIKE LANE	2
R81A(CA)	21+62	BEGIN	1
R81B(CA)	20+94	END	1
OM2-2H	20+94, 21+96	TYPE 2 OBJECT MARKER	2
TOTAL			13

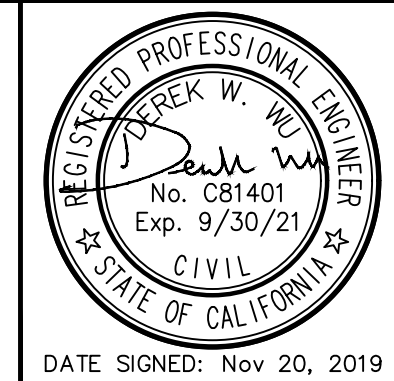


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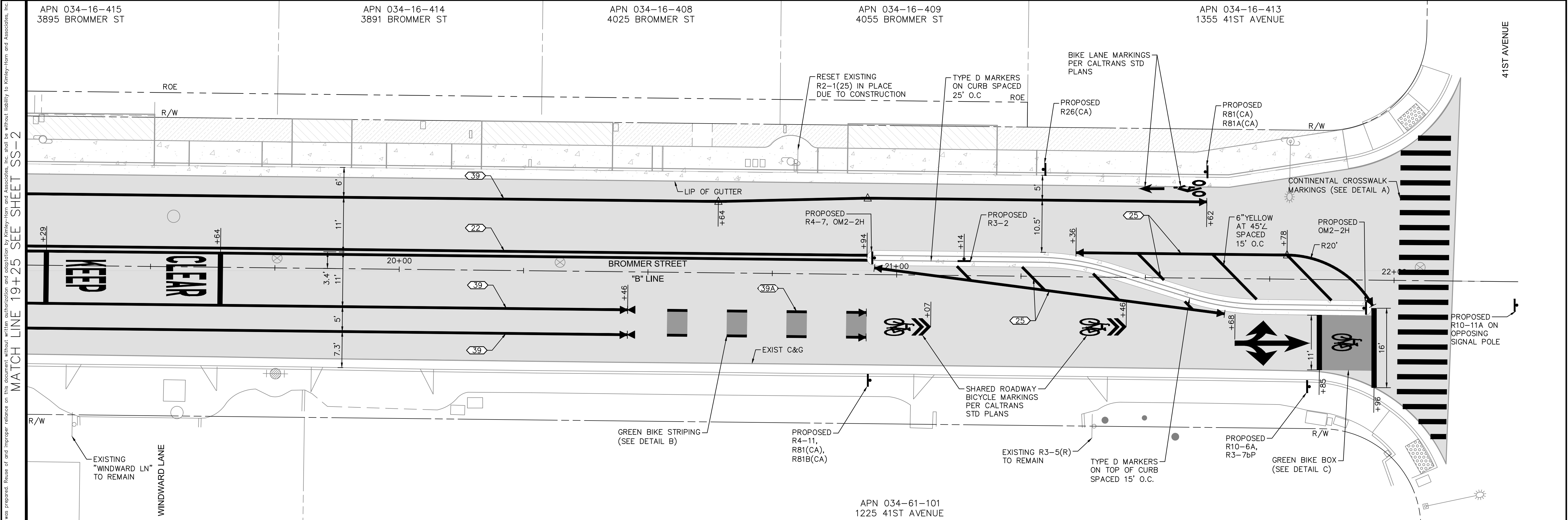
KHA PROJECT	097763129
DATE	11/22/2019
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	DC

BROMMER COMPLETE STREET IMPROVEMENTS
 PREPARED FOR
CITY OF CAPITOLA
 SANTA CRUZ COUNTY CA



SIGNING AND STRIPING PLAN

SHEET NO. 12
 OF 13 SHEETS
SS-2



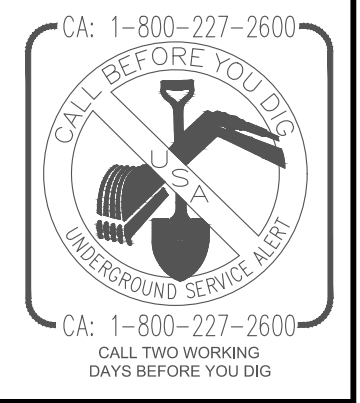
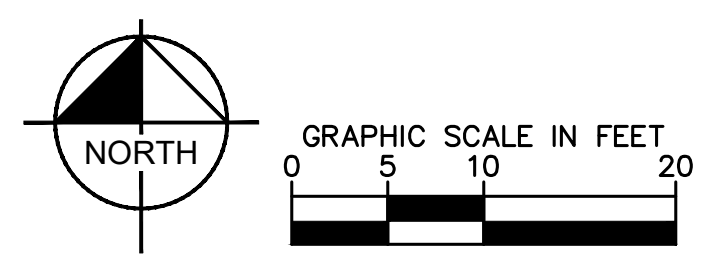
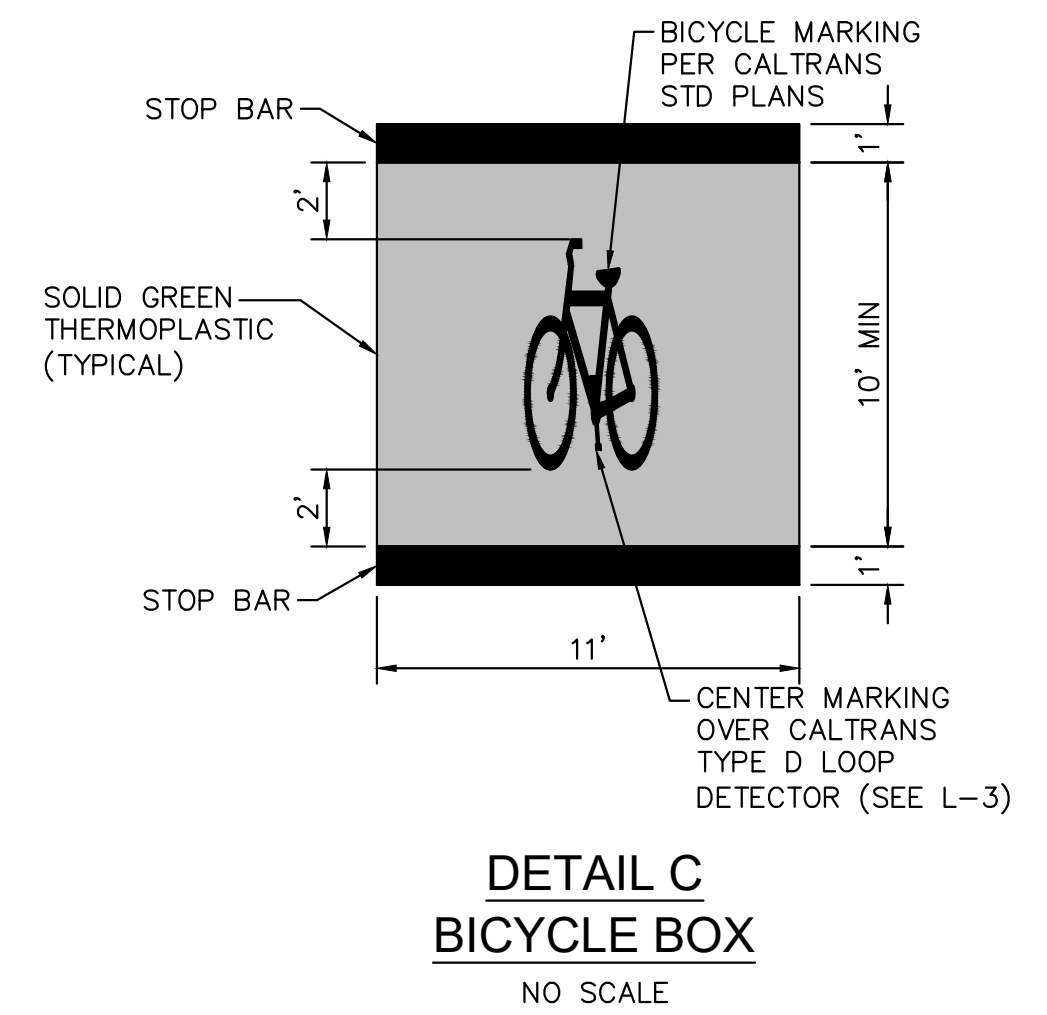
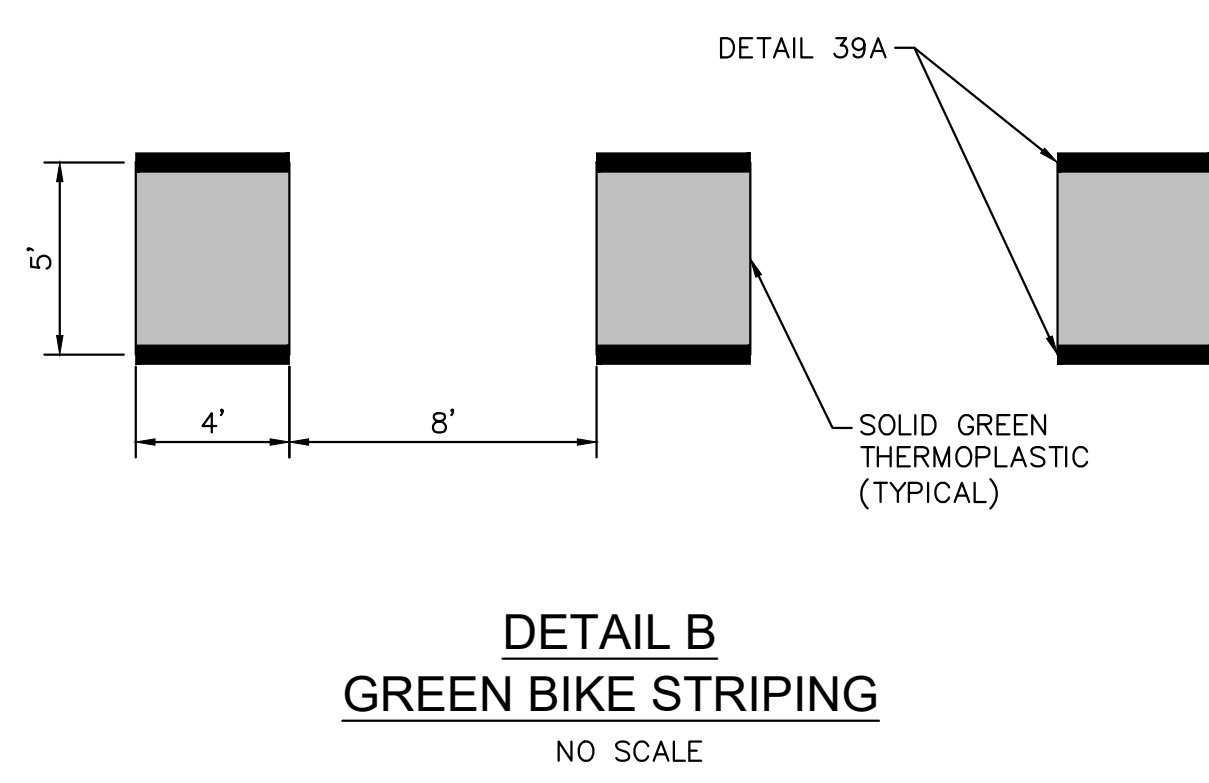
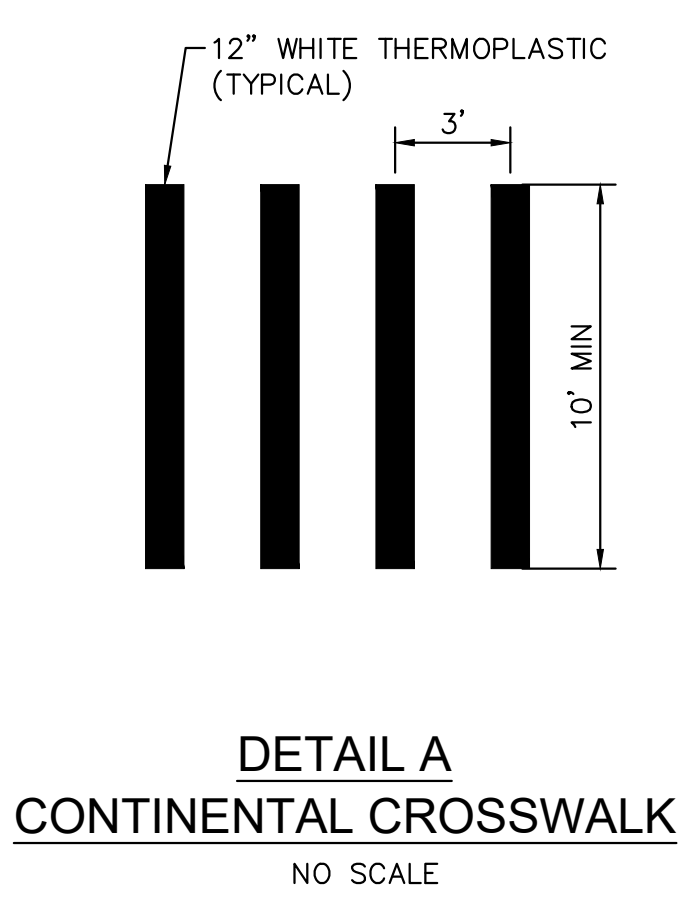
MATCH LINE 19+25 SEE SHEET SS-2

LEGEND

- EXISTING SIGN
- PROPOSED SIGN
- EXISTING STRIPING DETAIL
- PROPOSED STRIPING DETAIL
- STRIPING CHANGE
- STRIPING LIMIT
- △ ANGLE POINT
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5. ALL PAVEMENT DELINEATION MUST BE IN ACCORDANCE WITH CURRENT VERSION OF THE CALIFORNIA MUTCD AND 2018 CALTRANS STANDARD PLANS.
6. ALL STRIPING DIMENSIONS SHOWN ARE MEASURED FROM STRIPE TO STRIPE, STRIPE TO TOP OF CURB, OR STRIPE TO FACE OF CURB WHICHEVER SCENARIO IS CLOSER.
7. STREET SIGN POSTS SHALL BE INSTALLED PER CITY OF CAPITOLA DETAIL CAP-014 AND CAP-015.



No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT	097763129
DATE	11/22/2019
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	DC

BROMMER COMPLETE STREET IMPROVEMENTS
 PREPARED FOR
CITY OF CAPITOLA
 SANTA CRUZ COUNTY CA



SIGNING AND STRIPING PLAN

SHEET NO. 13
 OF 13 SHEETS
SS-3