CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

PACIFIC AVE RECONSTRUCTION

HUMBOLDT ST TO MONTECITO AVE

CONTRACT No. C00661

GENERAL NOTES

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.

2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 8-1.10 OF THE SPECIAL PROVISIONS.

3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE CITY ENGINEER.

4. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280 OR AS DIRECTED BY THE CITY ENGINEER.

5. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.

6. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

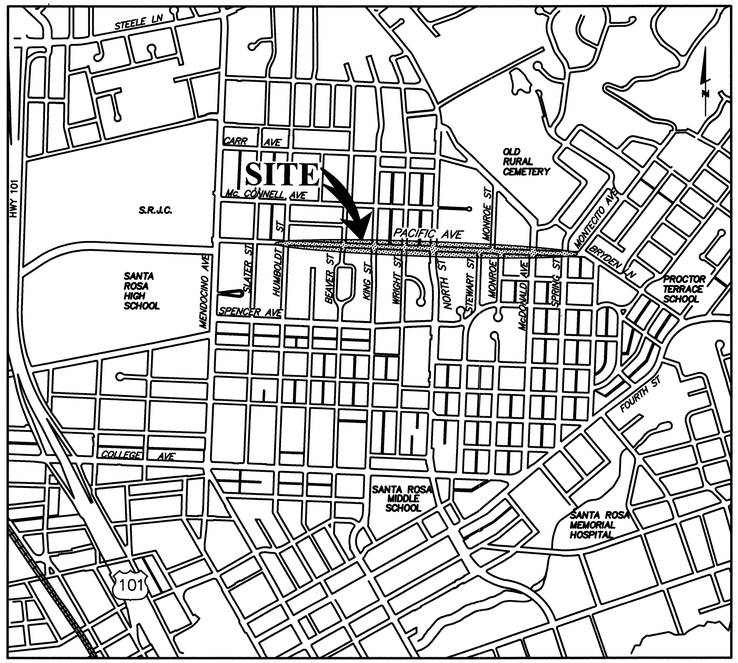
7. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM ENGINEERING. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.

8. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.

9. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.

RECORD PLAN DATA

PROJECT START:	WATER SERVICE TYPE:
PROJECT END:	MANUFACTURER:
GEN. CONTRACTOR:	FIRE HYDRANT TYPE:
SUPERINTENDENT:	MANUFACTURER:
UNDERGROUND CONTRACTOR:	INSPECTOR:
FOREMAN:	CONSTRUCTION MANAGER:
SEWER PIPE TYPE:	RECORD PLANS BY:
MANUFACTURER:	ADDITIONAL INFO:
SEWER FITTINGS MANUFACTURER:	
M.H. MANUFACTURER:	
WATER PIPE TYPE:	
MANUFACTURER:	
WATER VALVE MANUFACTURER:	
WATER FITTINGS MANUFACTURER:	

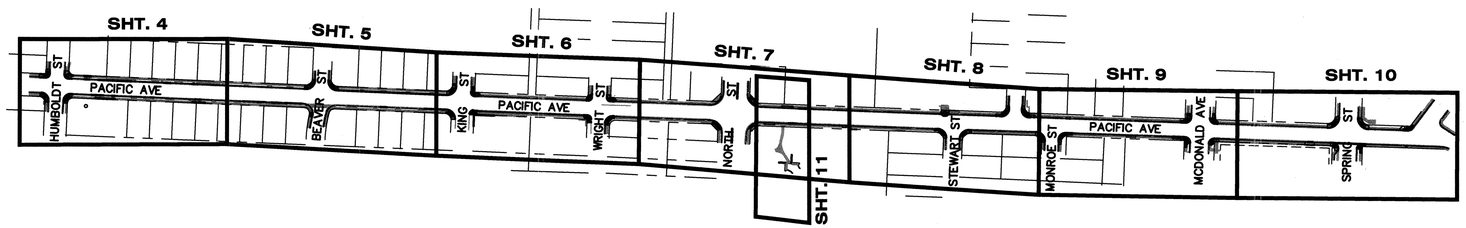


LOCATION MAP

NTS

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3. CONTROL POINT DIAGRAM
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5. PACIFIC AVE PLAN AND PROFILE - STA: 5+40 TO STA: 11+00
6. PACIFIC AVE PLAN AND PROFILE - STA: 11+00 TO STA: 16+50
7. PACIFIC AVE PLAN AND PROFILE - STA: 16+50 TO STA: 22+00
8. PACIFIC AVE PLAN AND PROFILE - STA: 22+00 TO STA: 26+90
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32. KING ST RECTANGULAR RAPID FLASHING BEACON (RRFB) DESIGN
33. ELIZABETH WY-SPRING ST RECTANGULAR RAPID FLASHING BEACON (RRFB) DESIGN



SHEET LOCATION MAPS

SCALE: 1"=200'

FINAL PAY ITEM:

ROADWAY EXCAVATION 8.852 CY

REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL GRAY No. 44511 CIVIL STATE OF CALIFORNIA 6/17/20

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542-4820

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CALL U.S.A.
UNDERGROUND SERVICE ALERT
811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

NO.	DATE	REVISION	BY

Dept.	Signature	Date
Design/Const		6/17/20
Survey		6/17/20
TPW Field Svc's		6/17/20
Utilities Op's		6/17/20
Traffic		6/17/20
Storm Water		6/17/20
Materials Lab		6/17/20

NO SCALE
DWN BY: JM
JUNE 17, 2020
CHK BY: DDD

APPROVED: Deputy Director – Engineering
By LORI URBANEK Date 7/3/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

COVER SHEET

CONTRACT NO. C00661

SHEET 1 OF 33

FILE NO. 2019–0056

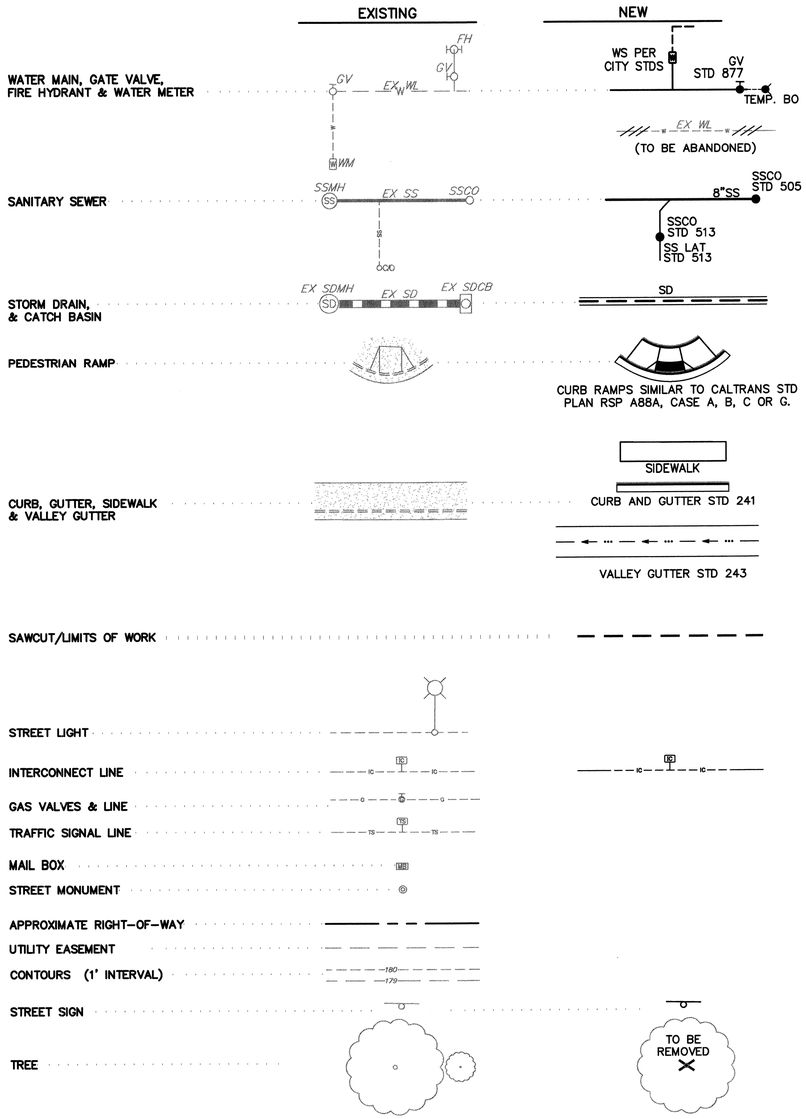
PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

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ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
ADA	AMERICANS WITH DISIBILITIES ACT
APS	ACCESSIBLE PEDESTRIAN SIGNAL
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BLDG	BUILDING
BO	BLOW-OFF
BOC	BACK OF CURB
BSL	BUILDING SETBACK LINE
BSW	BACK OF SIDEWALK
BRVCE	BEGIN REVERSE VERTICAL CURVE ELEVATION
BRVCS	BEGIN REVERSE VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CATV	CABLE TV SERVICE
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CMU	CONCRETE MASONARY UNIT
CIP	CAST IRON PIPE
CL	CLASS OR CONTROL LINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION
CONC	CONCRETE
COR	CORRIDOR
CORP	CORPORATION
CR	CURB RETURN
C&G	CURB AND GUTTER
CVG	CONCRETE VALLEY GUTTER
DCD	DOUBLE CHECK DETECTOR
DEPT	DEPARTMENT
DET	DETAIL
DIP	DUCTILE IRON PIPE
DWY	DRIVEWAY
E	EAST
EC	END CURVE
ECR	END CURB RETURN
EG	EXISTING GROUND
ELECT	ELECTRICAL
EL	ELEVATION
ENG	ENGINEERING
EP	EDGE OF PAVEMENT
EQ	EQUIVILENT
ETW	EDGE OF TRAVEL WAY
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
F	FIRE WATERLINE
FC	FACE OF CURB
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FND	FOUND
FOC	FACE OF CURB
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
GV	GATE VALVE
H/C	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
IC	INTERCONNECT LINE
IFO	IN FAVOR OF
IG	INVERT GRADE
IRR	IRRIGATION SERVICE
INV	INVERT
L	LENGTH OR LEFT
LAT	LATERAL
LF	LINEAR FEET
LL	LOT LINE
LN	LANE
LP	LOW POINT
LS	LANDSCAPE
LT	LEFT
M	METER
MAX	MAXIMUM
MB	MAIL BOX
ME	PUBLIC UTILITY MAINTENANCE ACCESS EASEMENT
MIL	MILLIMETER
MIN	MINIMUM
MON	STANDARD CITY MONUMENT
NEC	NATIONAL ELECTRICAL CODE
NSBB	NUTRIENT SEPARATING BAFFLE BOX
OC	ON CENTER
OG	ORIGINAL GROUND
OS	OFFSITE
P	POLE
PBA	PUSH BUTTON ASSEMBLY
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PDE	PRIVATE DRAINAGE EASEMENT
PERF	PERFORATED
PG	PAVEMENT GRADE
PGE	OVERHEAD ELECTRIC LINE
PH	POTHOLE
PKWY	PARKWAY
PL	PROPERTY LINE
PLNTR	PLANTER
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PRO	PROFILE
PSSE	PUBLIC SANITARY SEWER EASEMENT
PSWE	PRIVATE SIDEWALK EASEMENT
PT	POINT OF TANGENCY OR POINT
PTDF	PRESSURE TREATED DOUGLAS FIR
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYLCHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	PRIVATE
R	RADIUS OR RIGHT
RAD	RADIAL
RET	RETAINING
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RC	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
RP	RADIUS POINT
RRFB	RECTANGULAR RAPID FLASHING BEACON
R&R	REMOVE AND REPLACE
RSP	REVISED STANDARD PLAN
RT	RIGHT
RW	RIGHT OF WAY
RWL	RECLAIMED WATERLINE
S	SLOPE
SCWA	SONOMA COUNTY WATER AGENCY
SD	STORM DRAIN
SDAD	STORM DRAIN AREA DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STROM DRAIN DROP INLET
SDE	PUBLIC STORM DRAIN EASEMENT
SDFD	STORM DRAIN FIELD DRAIN
SDMH	STORM DRAIN MANHOLE
SDPI	STORM DRAIN POND INLET
SDYI	STORM DRAIN YARD INLET
SHT	SHEET
SIM	SIMILAR
SQIN	SQUARE INCHES
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSE	PUBLIC SANITARY SEWER EASEMENT
SSFM	SANITARY SEWER FORCE MAIN
SSMH	SANITARY SEWER MANHOLE
SS LAT	SANITARY SEWER LATERAL
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
SWE	SIDEWALK EASEMENT
T	OVERHEAD TELEPHONE LINE
TB	TOP OF BOX
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TF	TOP OF FOOTING
TG	TOP OF GRATE
TI	TRAFFIC INDEX
TRANS	TRANSFORMER
TSR	TENSILE STRENGTH RATIO
TW	TOP OF WALL
TYP	TYPICAL
UTIL	UTILITIES
VG	VALLEY GUTTER
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
W or WL	WATER LINE
WLE	PUBLIC WATERLINE EASEMENT
WM	WATER METER
WO	WHITE OAK
WS	WATER SERVICE
WWM	WELDED WIRE MESH
WY	WAY

LEGEND



REGISTERED PROFESSIONAL ENGINEER
DENNIS DANIEL DDD
No. 44511
6/17/20
CIVIL
STATE OF CALIFORNIA

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				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
SCALE: 1"=20'
DWN BY: JM

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK Date 7/6/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

LEGEND AND ABBREVIATIONS

CONTRACT NO. C00661
SHEET 2 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE– CITY CONTRACT NO. C00661

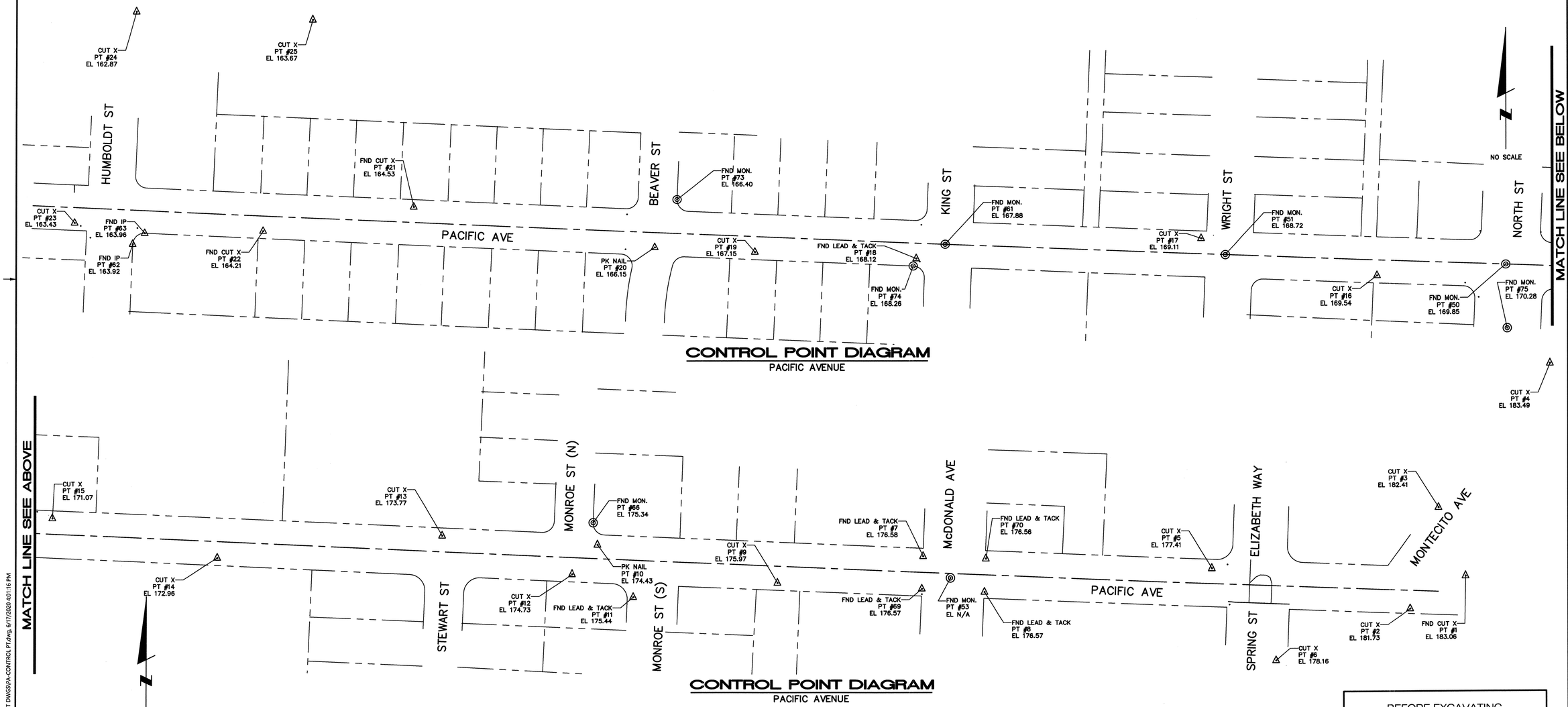
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SURVEY CONTROL DATA

Point #	Elevation	Northing	Easting	Point #	Elevation	Northing	Easting	Point #	Elevation	Northing	Easting	Point #	Elevation	Northing	Easting
1	183.06	1927574.755	6360759.382	11	175.44	1927550.337	6359691.906	21	173.60	1927583.218	6359279.488	63	163.96	1927671.903	6357120.456
2	181.73	1927532.786	6360759.382	12	174.73	1927579.339	6359613.354	22	175.34	1927643.900	6359640.165	66	175.34	1927643.900	6359640.165
3	182.41	1927660.873	6360724.861	13	173.77	1927626.724	6359446.558	23	176.12	1927558.096	6359905.433	72	164.09	1927728.580	6357208.016
4	183.49	1927848.847	6360867.939	14	172.96	1927597.873	6359158.379	24	175.74	1927560.444	6359849.670	73	163.96	1927721.580	6357387.784
5	177.41	1927585.594	6360434.181	15	171.07	1927647.036	6358947.079	25	164.09	1927728.580	6357208.016	74	168.26	1927630.922	6358106.392
6	178.16	1927465.033	6360516.247	16	169.57	1927616.550	6358701.673	50	169.85	1927630.087	6358866.695	75	170.28	1927549.957	6358868.449
7	176.58	1927601.640	6360063.733	17	169.11	1927666.074	6358476.227	51	168.72	1927644.660	6358507.077				
8	176.57	1927556.763	6360142.424	18	168.12	1927640.632	6358110.494	53	N/A	1927574.859	6360098.684				
9	175.97	1927568.744	6359876.876	19	167.15	1927649.068	6357903.339	61	167.88	1927659.216	6358147.455				
10	174.43	1927616.106	6359645.910	20	166.15	1927655.293	6357774.835	62	163.92	1927657.517	6357104.929				

BENCH LEVEL DATA:

NAME, ELEVATION:	DESCRIPTION:
A17 176.563	Pacific Ave and McDonald Ave; nail in lead plug on catch basin in NW corner. 1/78
A18 176.560	Pacific Ave and McDonald Ave; nail in lead plug on catch basin in SE corner. 1/78
C151 175.442	Pacific Ave and Monroe St (south); lead and tack in top of curb, in SW corner, at south end of curb return. 4/81
C53 161.856	Pacific Ave and Slater St; lead and tack at west end of a catch basin in SE corner, east end of curb return. 3/75
C56 167.869	Pacific Ave and King St; iron pin in well monument, 5 ft W/o CL intersection. (Coordinate monument G-44). 4/81
C59 173.298	Pacific Ave, 50 ft. W/o Stewart St; lead and tack in top of curb on N/S Pacific, at east end of catch basin. 4/81



CONTROL POINT DIAGRAM
PACIFIC AVENUE

CONTROL POINT DIAGRAM
PACIFIC AVENUE

REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL SWANSON — No. 44511 — 6/17/20 — CIVIL — STATE OF CALIFORNIA

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NO.	DATE	REVISION	BY

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Survey
TPW Field Svc's
Utilities Op's
Traffic
Storm Water
Materials Lab

Signature | Date

MATCH LINE SEE BELOW

DATE: JUNE 17, 2020
CHK BY: DDD
SCALE: 1"=20'
DWN BY: JM

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK Date 7/3/2020

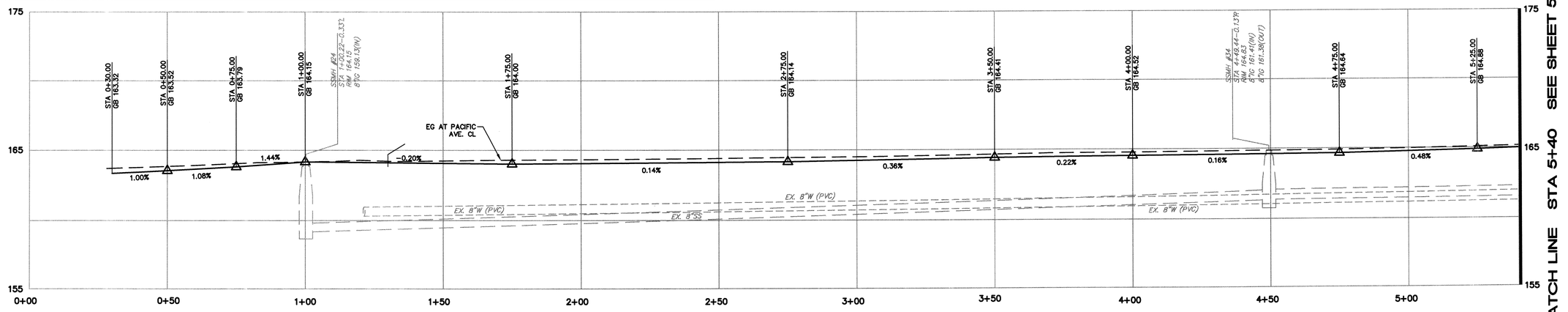
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

CONTROL POINT DIAGRAM

CONTRACT NO. C00661
SHEET 3 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE- CITY CONTRACT NO. C00661

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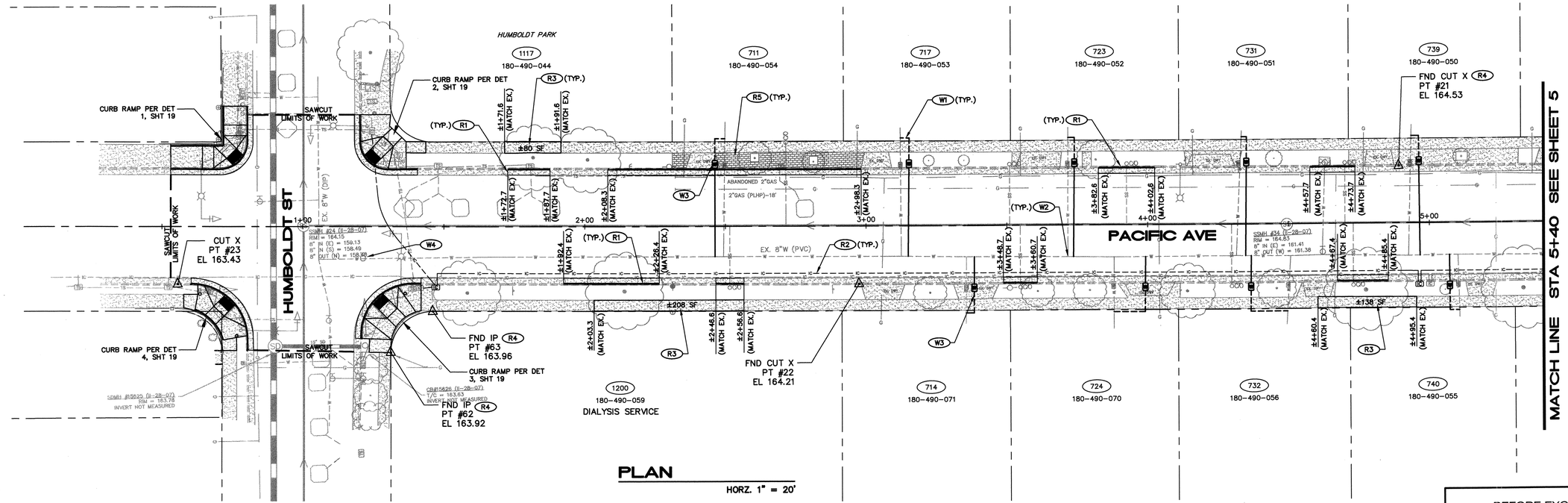


PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

CONSTRUCTION NOTES:

- (W1) INSTALL 1" HOT TAP WATER SERVICE ON EXISTING MAIN PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.
- (W2) ABANDON EXISTING WATER SERVICE. REMOVE SADDLE AND CORP STOP. INSTALL FULL CIRCLE CLAMP UNDER AUTHORIZED CITY INSPECTION.
- (W3) INSTALL 1" HOT TAP WATER SERVICE ON EXISTING MAIN PER CITY STD 863A WITH TRAFFIC RATED METER BOX.
- (W4) EXISTING DIALYSIS VALVE TO REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION. CITY OR CONTRACTOR SHALL COMMUNICATE WITH RESIDENT TO COORDINATE SERVICE SHUTOFF WITH DIALYSIS TREATMENT NEEDS.
- (R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R3) REMOVE AND REPLACE DAMAGED EXISTING SIDEWALK IN-KIND. 4" PCC OVER 2" OF SAND SIMILAR TO CITY STD 230A.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.
- (R5) CONTRACTOR SHALL PROTECT AND PRESERVE DECORATIVE PAVERS. IF DAMAGED, CONTRACTOR SHALL REPLACE IN-KIND.



PLAN

HORZ. 1" = 20'

0 20 50
SCALE: 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL SMITH — No. 44511 — 6/17/20 — CIVIL — STATE OF CALIFORNIA

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2200 Range Avenue, Suite 204
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NO SCALE | DATE: JUNE 17, 2020
DWN BY: JM | CHK BY: DDD

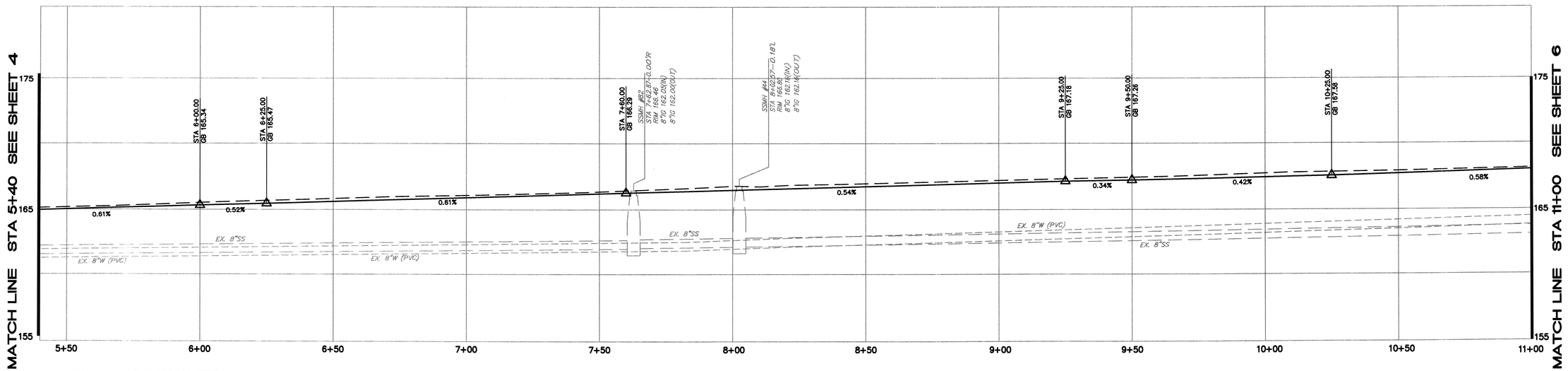
APPROVED: Deputy Director - Engineering
By LORI URBANEK Date 7/9/20

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
START TO STA: 5+50

CONTRACT NO. C00661
SHEET 4 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE - CITY CONTRACT NO. C00661

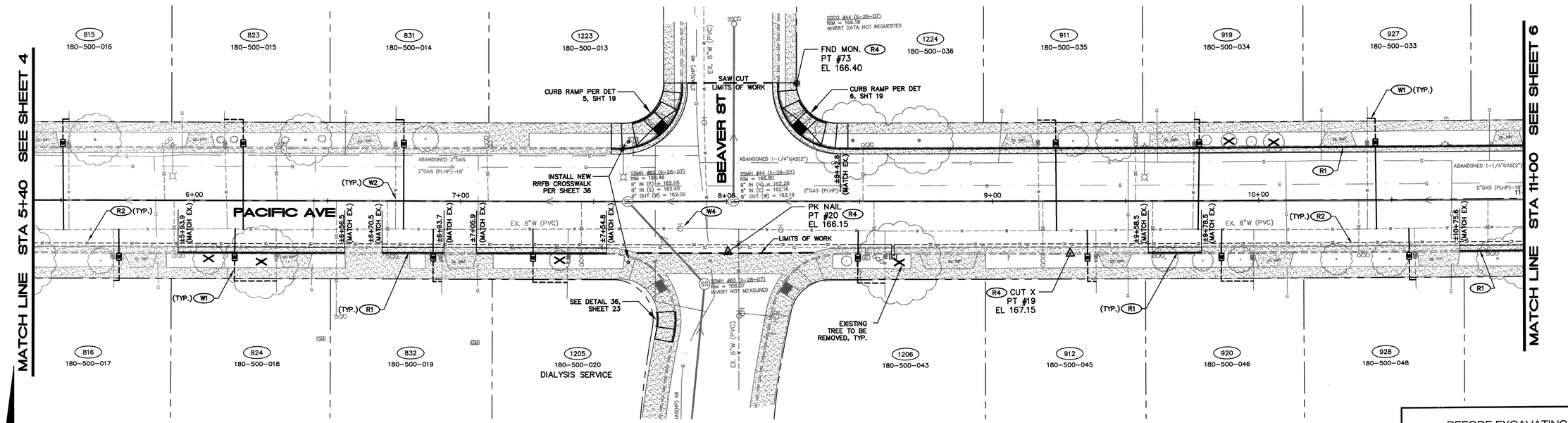


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- (R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R3) REMOVE AND REPLACE DAMAGED EXISTING SIDEWALK IN-KIND. 4" PCC OVER 2" OF SAND SIMILAR TO CITY STD 230A.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.

PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'



PLAN

HORZ. 1" = 20'

0 20 50
SCALE: 1" = 20'

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL GRIER — No. 44511 — CIVIL — 6/17/20 — STATE OF CALIFORNIA

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542-4820

NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
NO SCALE
DWN BY: JM

APPROVED: Deputy Director - Engineering
By LORI URBANEK Date 7/3/2020

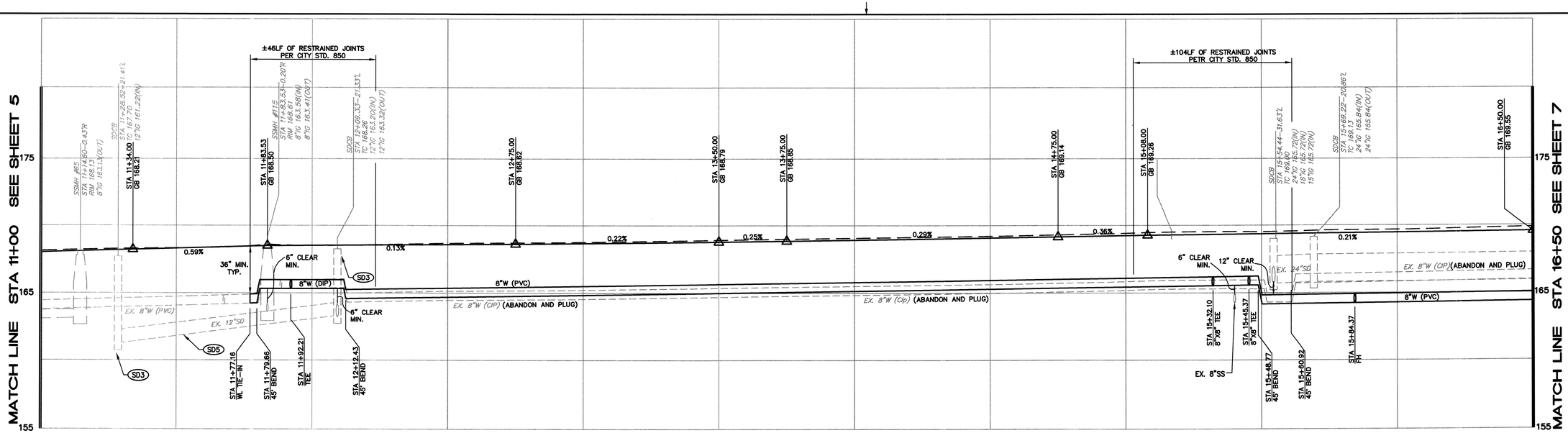
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 5+50 TO STA: 11+00

CONTRACT NO. C00661
SHEET 5 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE - CITY CONTRACT NO. C00661

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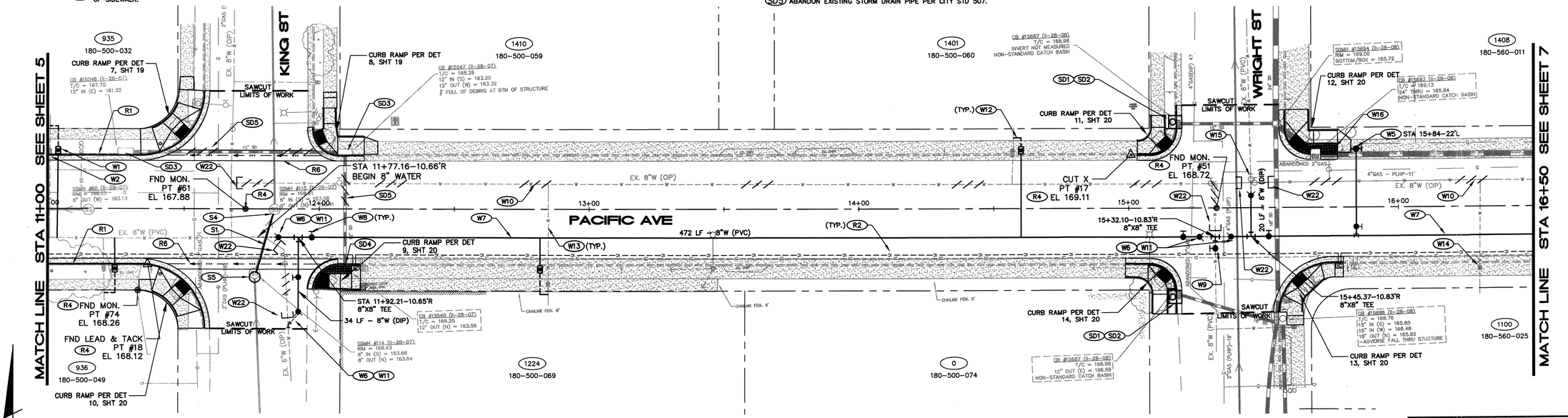


PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

CONSTRUCTION NOTES:

- (W1) INSTALL 1" HOT TAP WATER SERVICE ON EXISTING MAIN PER CITY STD 863A. TIE INTO EXISTING SERVICE AT BACK OF SIDEWALK.
- (W2) ABANDON EXISTING WATER SERVICE. REMOVE SADDLE AND CORP STOP. INSTALL FULL CIRCLE CLAMP UNDER AUTHORIZED CITY INSPECTION.
- (W5) INSTALL NEW FIRE HYDRANT & LATERAL ASSEMBLY PER CITY STD 857.
- (W6) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION.
- (W7) INSTALL 8" WATER MAIN.
- (W8) INSTALL 8" GATE VALVE PER CITY STD 877.
- (W9) INSTALL 8" CUT–IN GATE VALVE ON EXISTING WATER MAIN PER CITY STD 877.
- (W10) ABANDON EXISTING WATER MAIN PER CITY STD 507.
- (W11) INSTALL TEMPORARY BLOW OFF PER CITY STD 859.
- (W12) INSTALL 1" WATER SERVICE PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.
- (W13) ABANDON EXISTING WATER SERVICE PER CITY STD 507.
- (W14) REMOVE ABANDONED WATER SERVICE METER BOX.
- (W15) REMOVE EXISTING GATE VALVES ON PACIFIC AVENUE. GATE VALVE ON CROSS STREET TO REMAIN.
- (W16) REMOVE EXISTING FIRE HYDRANT, VALVE, BOX AND RISER. DELIVER FIRE HYDRANT TO CITY CORPORATION YARD,
- (W22) CUT AND CAP EXISTING WATER MAIN UNDER CITY INSPECTION.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.
- (R6) INSTALL 4' VALLEY GUTTER SIMILAR TO CITY STD 243. MATCH FLOWLINE AND EDGE OF VALLEY GUTTER WITH FLOWLINE AND LIP OF GUTTER ALONG PACIFIC AVENUE.
- (R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.
- (S4) MODIFY EXISTING SANITARY SEWER MANHOLE TO ACCOMMODATE NEW 8" MAIN. FORM SMOOTH FLOW CHANNEL, GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES, AND SEAL JOINTS WITH 1:3 MORTAR.
- (S5) STA 11+76.14–24.98'R – INSTALL 48" SANITARY SEWER MANHOLE PER CITY STD 500. CONNECT EXISTING SANITARY SEWER PIPES TO NEW MANHOLE. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.
- (SD1) REMOVE AND REPLACE EXISTING CATCH BASIN WITH NEW CUSTOM CATCH BASIN PER STORM DRAIN INLET DETAIL, SHEET 11.
- (SD2) CONNECT EXISTING STORM DRAIN PIPES TO NEW STORM DRAIN INLET. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.
- (SD3) REMOVE EXISTING CHECKERED PLATE COVER AND ABANDON EXISTING CATCH BASIN PER CITY STD 508.
- (SD4) REMOVE EXISTING TYPE 4A TOP AND ABANDON EXISTING CATCH BASIN PER CITY STD 508.
- (SD5) ABANDON EXISTING STORM DRAIN PIPE PER CITY STD 507.



PLAN

HORZ. 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL SWANSON — No. 44511 — CIVIL — STATE OF CALIFORNIA — 6/17/20

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542–4820

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811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

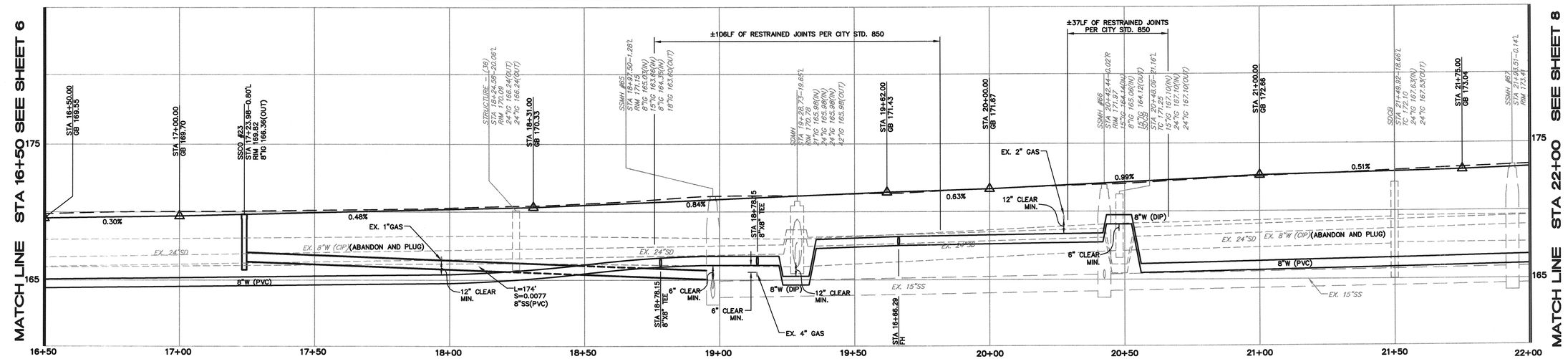
APPROVED: *Deputy Director – Engineering*
Date 7/9/2020
By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 11+00 TO STA: 16+50

CONTRACT NO. C00661
SHEET 6 OF 33
FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

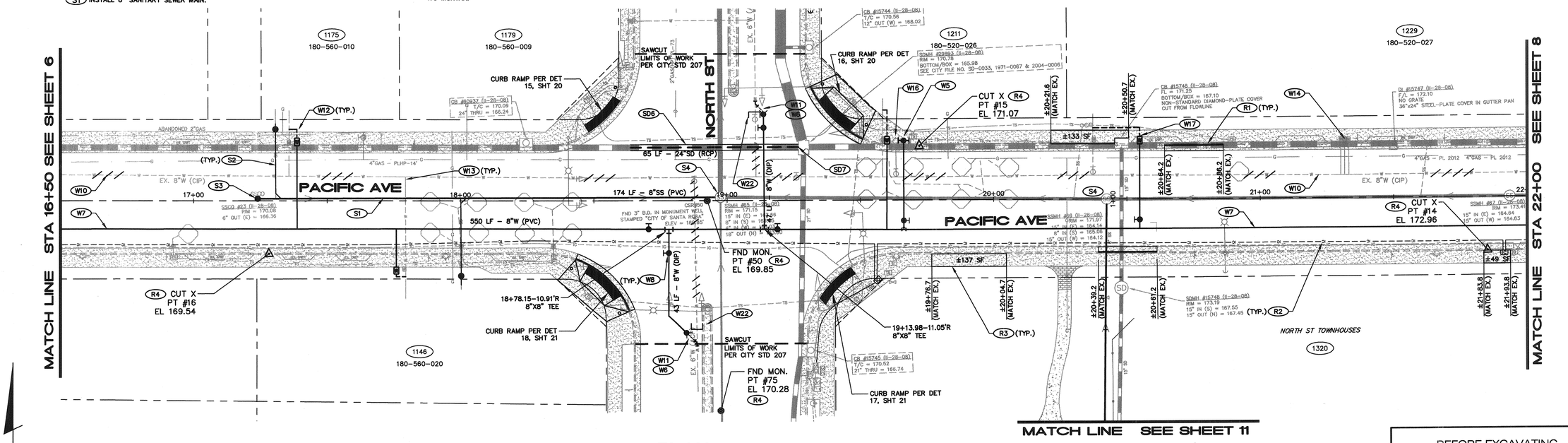


PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

CONSTRUCTION NOTES:

- (W5) INSTALL NEW FIRE HYDRANT & LATERAL ASSEMBLY PER CITY STD 857.
- (W6) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION.
- (W7) INSTALL 8" WATER MAIN.
- (W8) INSTALL 8" GATE VALVE PER CITY STD 877.
- (W10) ABANDON EXISTING WATER MAIN PER CITY STD 507.
- (W11) INSTALL TEMPORARY BLOW OFF PER CITY STD 859.
- (W12) INSTALL 1" WATER SERVICE PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.
- (W13) ABANDON EXISTING WATER SERVICE PER CITY STD 507.
- (W14) REMOVE ABANDONED WATER SERVICE METER BOX.
- (W16) REMOVE EXISTING FIRE HYDRANT, VALVE, BOX AND RISER. DELIVER FIRE HYDRANT TO CITY CORPORATION YARD,
- (W17) INSTALL 2" WATER SERVICE PER CITY STD 865A.
- (W22) CUT AND CAP EXISTING WATER MAIN UNDER CITY INSPECTION.
- (S1) INSTALL 8" SANITARY SEWER MAIN.
- (S2) INSTALL 4" SANITARY SEWER LATERAL PER CITY STD 513A.
- (S3) INSTALL MAIN LINE CLEANOUT PER CITY STD 505.
- (S4) MODIFY EXISTING SANITARY SEWER MANHOLE TO ACCOMMODATE NEW 8" MAIN. FORM SMOOTH FLOW CHANNEL, GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES, AND SEAL JOINTS WITH 1:3 MORTAR.
- (R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R3) REMOVE AND REPLACE DAMAGED EXISTING SIDEWALK IN–KIND. 4" PCC OVER 2" OF SAND SIMILAR TO CITY STD 230A.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.
- (SD6) REMOVE APPROXIMATELY 65 LF OF EXISTING CMP STORM DRAIN PIPE AND INSTALL NEW 24" RCP STORM DRAIN PIPE. CONNECT NEW STORM DRAIN PIPE TO EXISTING PIPE USING CONCRETE COLLAR PER CONCRETE COLLAR DETAIL, SHEET 11.
- (SD7) CONNECT NEW STORM DRAIN PIPE TO EXISTING STORM DRAIN STRUCTURE. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.



PLAN

HORZ. 1" = 20'

N

0 20 50

SCALE: 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL DEAN No. 44511 6/17/20 CIVIL STATE OF CALIFORNIA

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542–4820

BEFORE EXCAVATING
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TWO WORKING DAYS BEFORE ALL PLANNED WORK OPERATIONS

NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

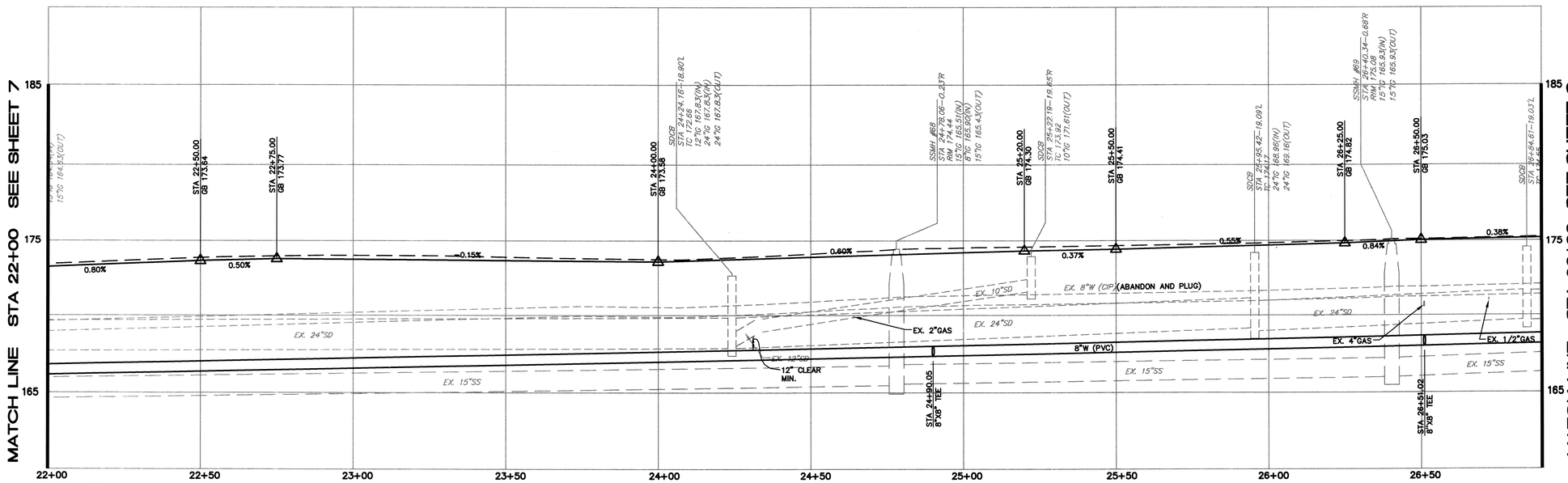
APPROVED: Deputy Director – Engineering
By LORI URBANEK
Date 7/13/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 16+50 TO STA: 22+00

CONTRACT NO. C00661
SHEET 7 OF 33
FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

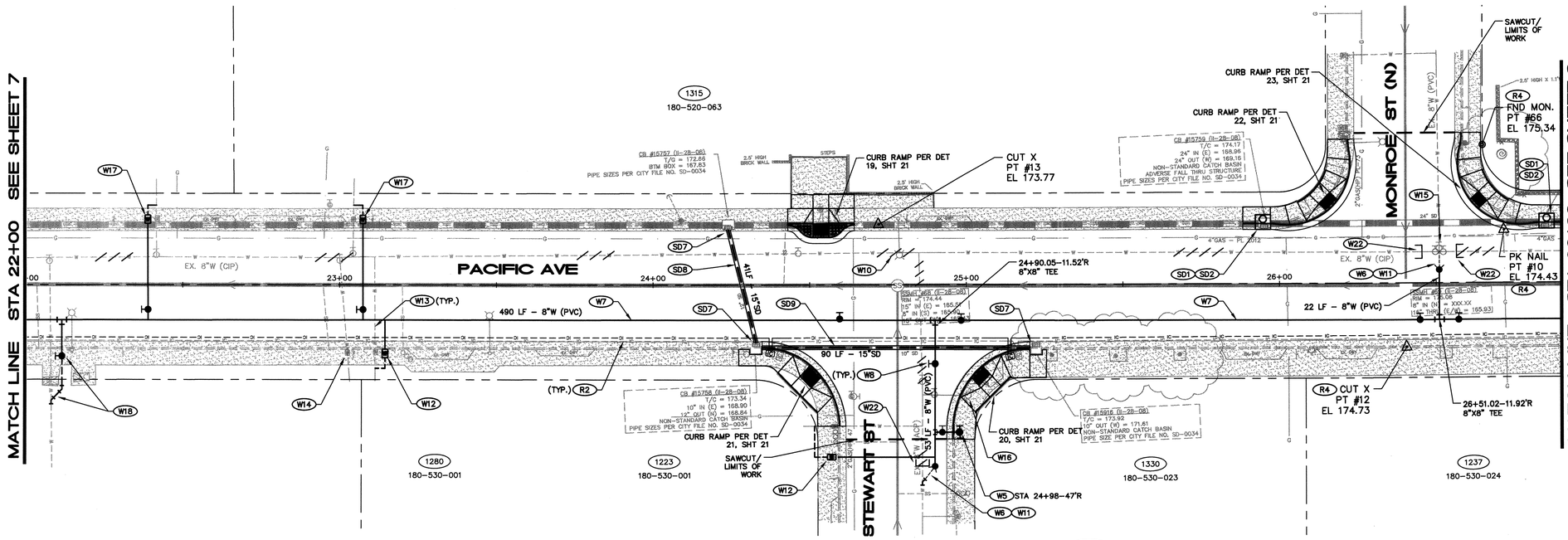


CONSTRUCTION NOTES:

- (W5) INSTALL NEW FIRE HYDRANT & LATERAL ASSEMBLY PER CITY STD 857.
- (W6) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION.
- (W7) INSTALL 8" WATER MAIN.
- (W8) INSTALL 8" GATE VALVE PER CITY STD 877.
- (W10) ABANDON EXISTING WATER MAIN PER CITY STD 507.
- (W11) INSTALL TEMPORARY BLOW OFF PER CITY STD 859.
- (W12) INSTALL 1" WATER SERVICE PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.
- (W13) ABANDON EXISTING WATER SERVICE PER CITY STD 507.
- (W14) REMOVE ABANDONED WATER SERVICE METER BOX.
- (W15) REMOVE EXISTING GATE VALVES ON PACIFIC AVENUE. GATE VALVE ON CROSS STREET TO REMAIN.
- (W16) REMOVE EXISTING FIRE HYDRANT, VALVE, BOX AND RISER. DELIVER FIRE HYDRANT TO CITY CORPORATION YARD.
- (W17) INSTALL 2" WATER SERVICE PER CITY STD 865A.
- (W18) INSTALL 8' WATER MAIN WITH 8" GATE VALVE IN SIDEWALK SIMILAR TO CITY STD 877. TIE INTO EXISTING WATER 1' BEHIND BACK OF SIDEWALK.
- (W22) CUT AND CAP EXISTING WATER MAIN UNDER CITY INSPECTION.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.
- (SD1) REMOVE AND REPLACE EXISTING CATCH BASIN WITH NEW CUSTOM CATCH BASIN PER STORM DRAIN INLET DETAIL, SHEET 11.
- (SD2) CONNECT EXISTING STORM DRAIN PIPES TO NEW STORM DRAIN INLET. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.
- (SD7) CONNECT NEW STORM DRAIN PIPE TO EXISTING STORM DRAIN STRUCTURE. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.
- (SD8) REMOVE EXISTING 12"SD AND INSTALL 41 LF OF NEW 15" RCP STORM DRAIN PIPE.
- (SD9) REMOVE EXISTING 10"SD AND INSTALL 90 LF OF NEW 15" RCP STORM DRAIN PIPE.

PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'



PLAN

HORZ. 1" = 20'

0 20 50
SCALE: 1" = 20'

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL DAVEY No. 44511 6/17/20 CIVIL STATE OF CALIFORNIA

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542-4820

NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
NO SCALE
DWN BY: JM

APPROVED: *Deputy Director – Engineering*
Date 7/13/2020
By LORI URBANEK

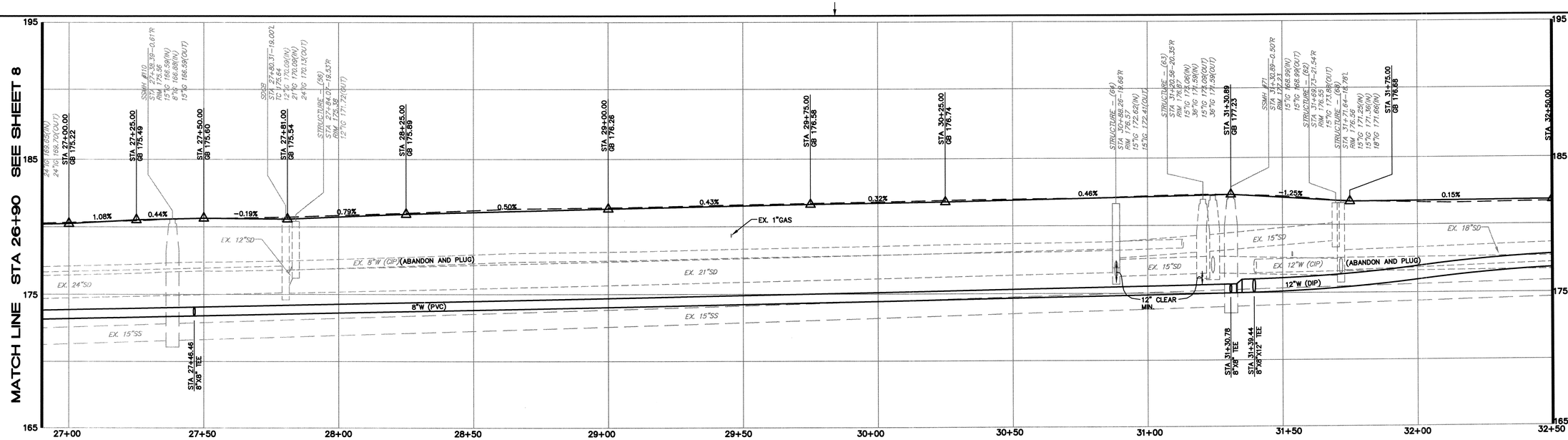
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 22+00 TO STA: 26+90

CONTRACT NO. C00661
SHEET 8 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE - CITY CONTRACT NO. C00661

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PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

CONSTRUCTION NOTES:

(W5) INSTALL NEW FIRE HYDRANT & LATERAL ASSEMBLY PER CITY STD 857.

(W6) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION.

(W7) INSTALL 8" WATER MAIN.

(W8) INSTALL 8" GATE VALVE PER CITY STD 877.

(W10) ABANDON EXISTING WATER MAIN PER CITY STD 507.

(W11) INSTALL TEMPORARY BLOW OFF PER CITY STD 859.

(W12) INSTALL 1" WATER SERVICE PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.

(W13) ABANDON EXISTING WATER SERVICE PER CITY STD 507.

(W16) REMOVE EXISTING FIRE HYDRANT, VALVE, BOX AND RISER. DELIVER FIRE HYDRANT TO CITY CORPORATION YARD,

(W19) INSTALL 12" WATER MAIN.

(W20) INSTALL 12" GATE VALVE PER CITY STD 877.

(W21) MECHANICAL JOINT DOUBLE-BALL FLEXTEND ASSEMBLIES WITH 8" EXPANSION/CONTRACTION CAPABILITY, AS MANUFACTURED BY EBAA IRON, INC. OF EASTLAND, TEXAS, OR AN APPROVED EQUIVALENT, SHALL BE DESIGNED ADJACENT TO EACH SIDE OF THE FAULT ZONE.

(W22) CUT AND CAP EXISTING WATER MAIN UNDER CITY INSPECTION.

(R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.

(R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.

(R3) REMOVE AND REPLACE DAMAGED EXISTING SIDEWALK IN-KIND. 4" PCC OVER 2" OF SAND SIMILAR TO CITY STD 230A.

(R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.

(R7) REMOVE AND REPLACE IN-KIND 4' OF EXISTING DRIVEWAY FLARES ON EITHER SIDE OF NEW STORM DRAIN CATCH BASIN

(SD1) REMOVE AND REPLACE EXISTING CATCH BASIN WITH NEW CUSTOM CATCH BASIN PER STORM DRAIN INLET DETAIL, SHEET 11.

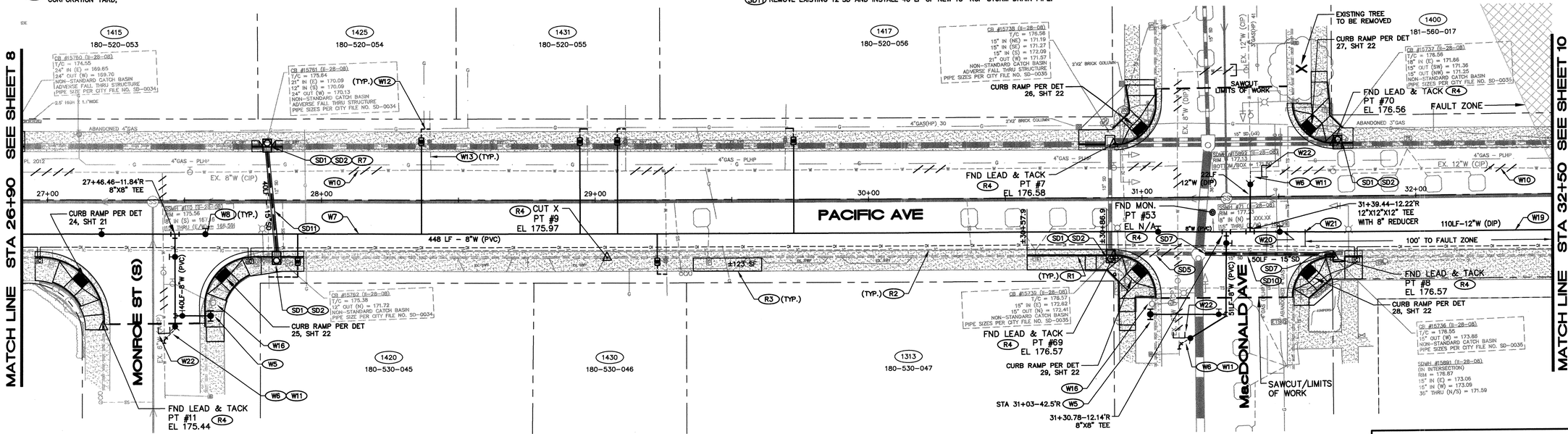
(SD2) CONNECT EXISTING STORM DRAIN PIPES TO NEW STORM DRAIN INLET.

(SD5) ABANDON EXISTING STORM DRAIN PIPE PER CITY STD 507.

(SD7) CONNECT NEW STORM DRAIN PIPE TO EXISTING STORM DRAIN STRUCTURE. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.

(SD10) REMOVE EXISTING 15"SD AND INSTALL 50 LF OF NEW 15" RCP STORM DRAIN PIPE.

(SD11) REMOVE EXISTING 12"SD AND INSTALL 40 LF OF NEW 15" RCP STORM DRAIN PIPE.



PLAN

HORZ. 1" = 20'

0 20 50
SCALE: 1" = 20'

REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL BOYER No. 44511 6/17/20 CIVIL STATE OF CALIFORNIA

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2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
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				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

APPROVED: Deputy Director - Engineering
By LORI URBANEK
Date 6/23/2020

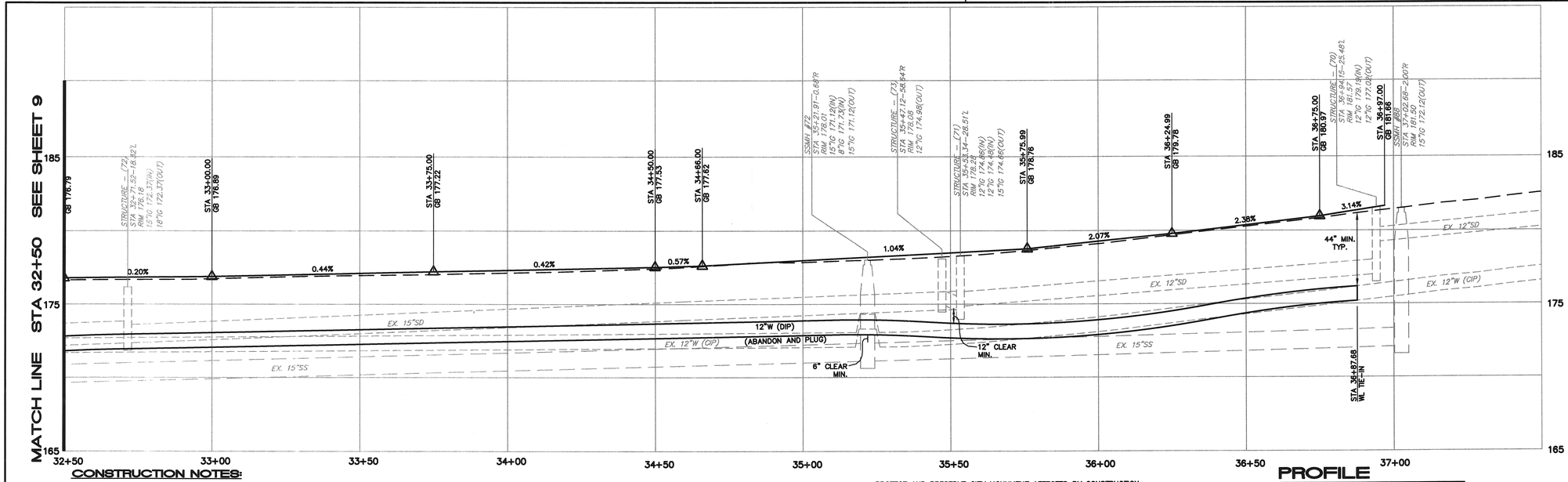
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 26+90 TO STA: 32+50

CONTRACT NO. C00661
SHEET 9 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE - CITY CONTRACT NO. C00661

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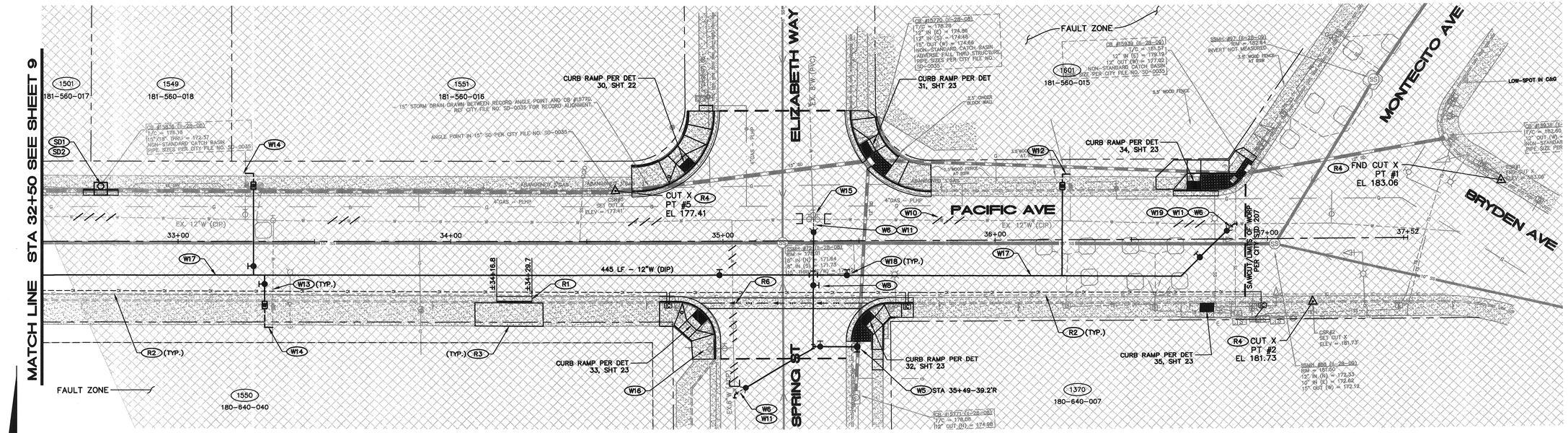


PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

CONSTRUCTION NOTES:

- (W5) INSTALL NEW FIRE HYDRANT & LATERAL ASSEMBLY PER CITY STD 857.
- (W6) UPON SATISFACTORY COMPLETION OF WATER MAIN TESTING, MAKE WATER MAIN TIE IN AS A SINGLE OPERATION UNDER AUTHORIZED CITY INSPECTION.
- (W8) INSTALL 8" GATE VALVE PER CITY STD 877.
- (W10) ABANDON EXISTING WATER MAIN PER CITY STD 507.
- (W11) INSTALL TEMPORARY BLOW OFF PER CITY STD 859.
- (W12) INSTALL 1" WATER SERVICE PER CITY STD 863A. TIE INTO EXISTING SERVICE 1' BEHIND BACK OF SIDEWALK.
- (W13) ABANDON EXISTING WATER SERVICE.
- (W15) REMOVE EXISTING GATE VALVES ON PACIFIC AVENUE. GATE VALVE ON CROSS STREET TO REMAIN.
- (W16) REMOVE EXISTING FIRE HYDRANT, VALVE, BOX AND RISER. DELIVER FIRE HYDRANT TO CITY CORPORATION YARD.
- (W17) INSTALL 2" WATER SERVICE PER CITY STD 865A.
- (W19) INSTALL 12" WATER MAIN.
- (W20) INSTALL 12" GATE VALVE PER CITY STD 877.
- (W21) MECHANICAL JOINT DOUBLE-BALL FLEXTEND ASSEMBLIES WITH 8" EXPANSION/CONTRACTION CAPABILITY, AS MANUFACTURED BY EBAA IRON, INC. OF EASTLAND, TEXAS, OR AN APPROVED EQUIVALENT, SHALL BE DESIGNED ADJACENT TO EACH SIDE OF THE FAULT ZONE.
- (R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.
- (R2) INSTALL NEW FIBER INTERCONNECT A MINIMUM OF 1' NORTH OF EXISTING INTERCONNECT.
- (R3) REMOVE AND REPLACE DAMAGED EXISTING SIDEWALK IN-KIND. 4" PCC OVER 2" OF SAND SIMILAR TO CITY STD 230A.
- (R4) PROTECT AND PRESERVE CITY MONUMENT AFFECTED BY CONSTRUCTION ACTIVITY PER GENERAL NOTE 4, SHEET 1. PROTECT AND PRESERVE PROPERTY CORNER PIPES SIMILAR TO CITY MONUMENTS.
- (R6) INSTALL 4' VALLEY GUTTER SIMILAR TO CITY STD 243. MATCH FLOWLINE AND EDGE OF VALLEY GUTTER WITH FLOWLINE AND LIP OF GUTTER ALONG PACIFIC AVENUE.
- (SD1) REMOVE AND REPLACE EXISTING CATCH BASIN WITH NEW CUSTOM CATCH BASIN PER STORM DRAIN INLET DETAIL, SHEET 11.
- (SD2) CONNECT EXISTING STORM DRAIN PIPES TO NEW STORM DRAIN INLET. GROUT ALL VOIDS BETWEEN MANHOLE AND PIPES AND SEAL JOINTS WITH 1:3 MORTAR.



PLAN

HORZ. 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL PURDY — No. 44511 — 6/17/20 — CIVIL — STATE OF CALIFORNIA

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2200 Range Avenue, Suite 204
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(707) 542-4820

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TWO WORKING DAYS BEFORE ALL
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NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
NO SCALE
DWN BY: JM

APPROVED: Deputy Director - Engineering
By LORI URBANEK Date 7/9/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PACIFIC AVE PLAN AND PROFILE
STA: 32+50 TO END

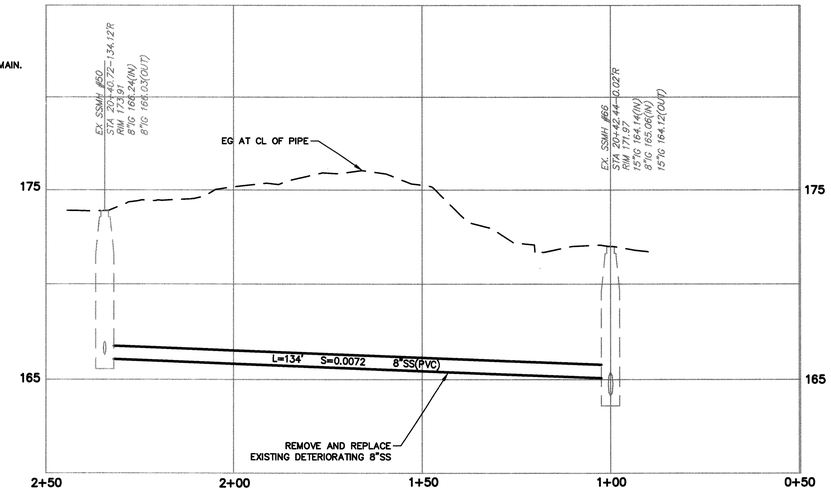
CONTRACT NO. C00661
SHEET 10 OF 33
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE - CITY CONTRACT NO. C00661

CONSTRUCTION NOTES:

(S4) MODIFY EXISTING SANITARY SEWER MANHOLE TO ACCOMODATE NEW 8" MAIN. GROUT SOLID AND SEAL.

(R1) REMOVE AND REPLACE CURB AND GUTTER PER CITY STD 241.

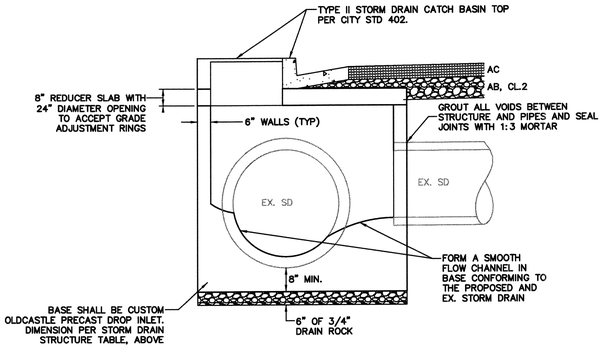


PROFILE

HORZ. 1" = 20'
VERT: 1" = 4'

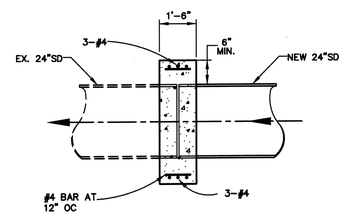
STORM DRAIN STRUCTURE TABLE

LOCATION	STRUCTURE SIZE (INNER DIMENSIONS)	CONNECTING PIPE	INVERT & DIRECTION
STA 15+16.36–32.32'L	48" X 48"	EX. 15"SD	NO INVERT GIVEN* (OUT–EAST)
STA 15+16.22–32.57'R	48" X 48"	EX. 15"SD	166.66' (OUT–EAST)
STA 25+94.75–21.31'L	48" X 48"	EX. 24"SD	168.96' (IN–EAST)
		EX. 24"SD	169.16' (OUT–WEST)
STA 26+85.26–21.22'L	48" X 48"	EX. 24"SD	169.65' (IN–EAST)
		EX. 24"SD	169.70' (OUT–WEST)
STA 27+80.18–21.13'L	30" X 48"	EX. 24"SD	170.13' (OUT–WEST)
		EX. 12"SD	170.09' (IN–SOUTH)
		EX. 21"SD	170.09' (IN–EAST)
STA 27+83.49–21.66'R	30" X 48"	EX. 12"SD	175.38' (OUT–NORTH)
STA 30+88.44–21.84'R	30" X 48"	EX. 15"SD	172.62' (IN–EAST)
		EX. 15"SD	172.41' (OUT–NORTH)
STA 31+71.49–20.93'L	30" X 48"	15"SD	171.25' (OUT–NW)
		15"SD	171.36' (OUT–SW)
		18"SD	171.66' (IN–EAST)
STA 32+71.64–20.56'L	48" X 48"	18"SD	172.37' (IN–WEST)
		15"SD	172.37' (OUT–EAST)



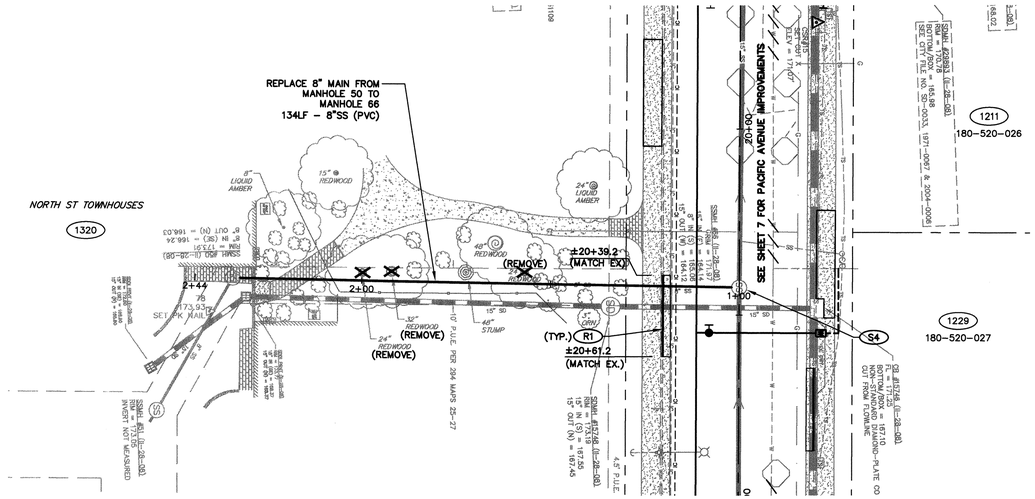
STORM DRAIN INLET DETAIL

NO SCALE



CONCRETE COLLAR

NO SCALE



PLAN

HORZ. 1" = 20'

0 20 50

SCALE: 1" = 20'

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NO SCALE | DATE: JUNE 17, 2020
DWN BY: JM | CHK BY: DDD

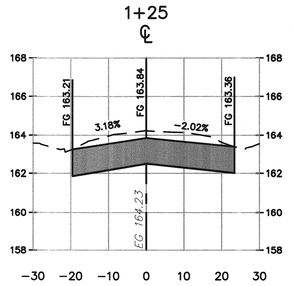
APPROVED: Deputy Director – Engineering
By LORI URBANEK Date 7/3/2020

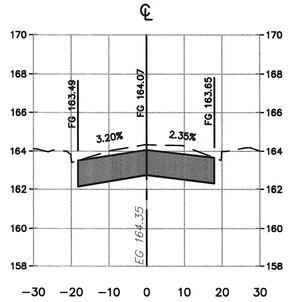
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

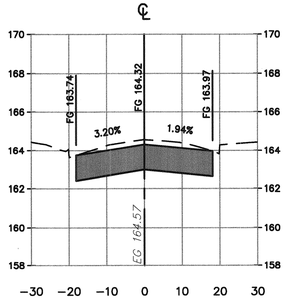
NORTH ST TOWNHOUSES
SEWER MAIN REPLACEMENT

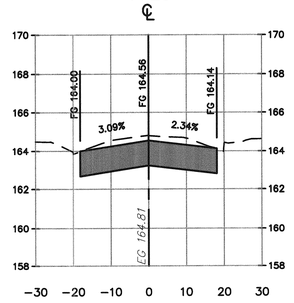
CONTRACT NO. C00661
SHEET 11 OF 33
FILE NO. 2019–0056

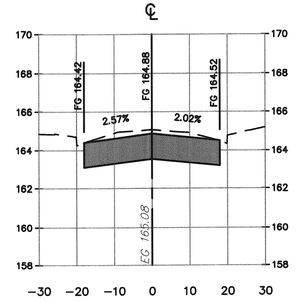
PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

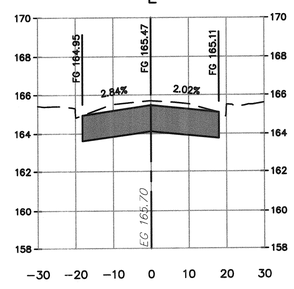


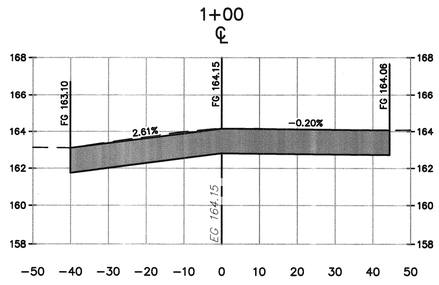


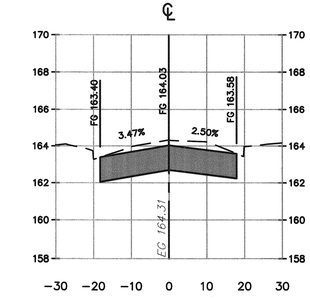


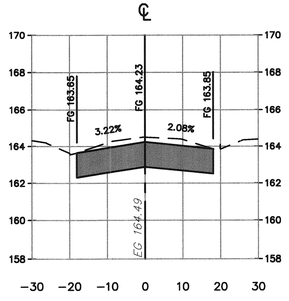


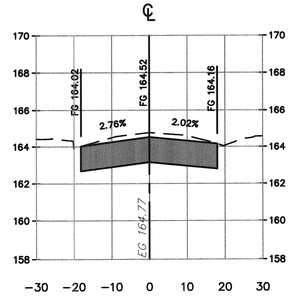


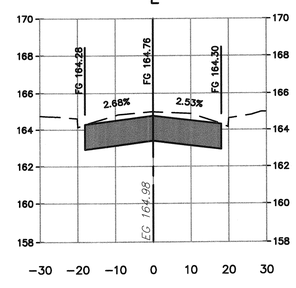


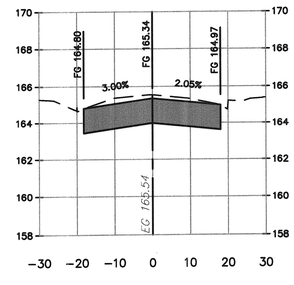


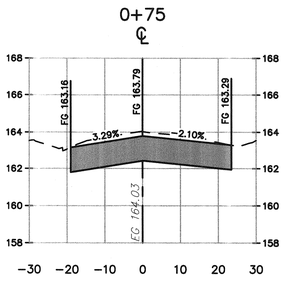


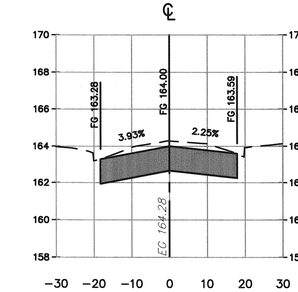


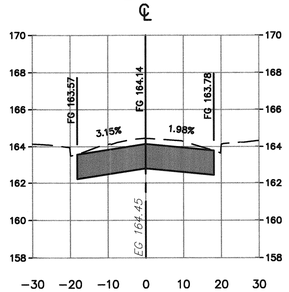


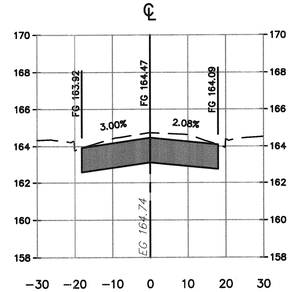


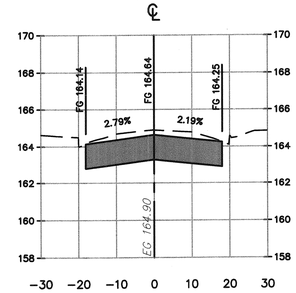


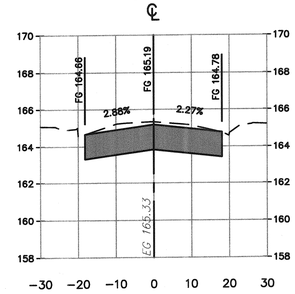


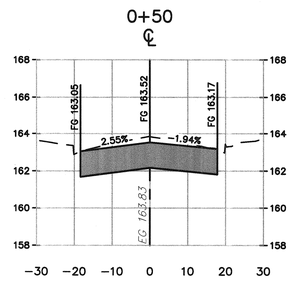


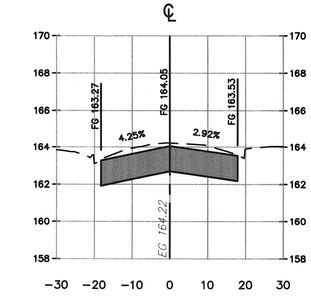


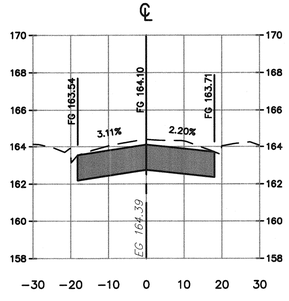


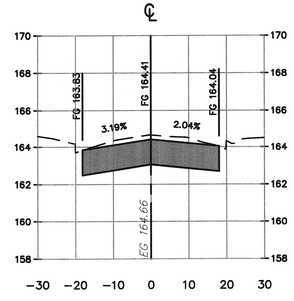


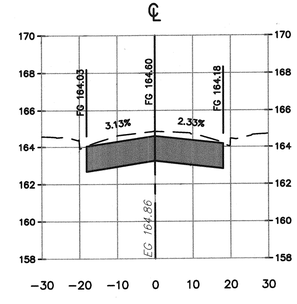


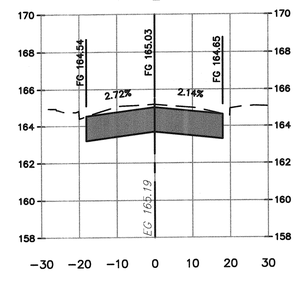












PACIFIC AVE
HORZ. 1" = 20'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL DAVIS No. 44511 CIVIL STATE OF CALIFORNIA 6/17/20

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Date 7/3/2020
By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

CROSS SECTIONS - STA: 0+50 TO 6+25

CONTRACT NO.
C00661

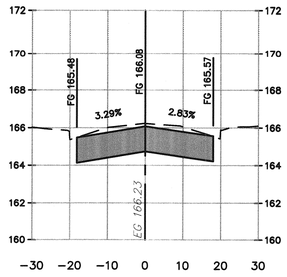
SHEET 12 OF 33

FILE NO. 2019-0056

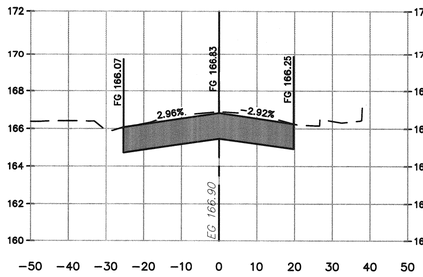
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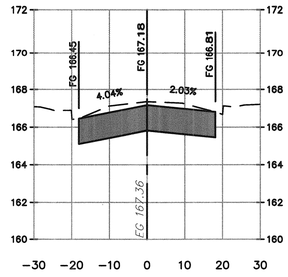
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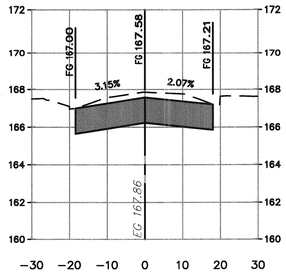
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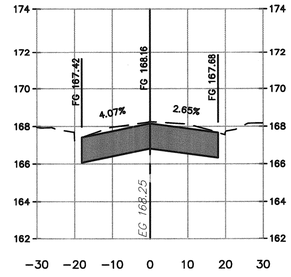
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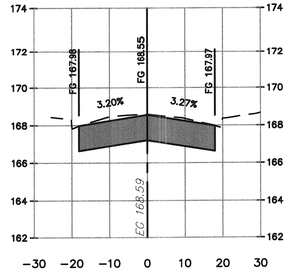
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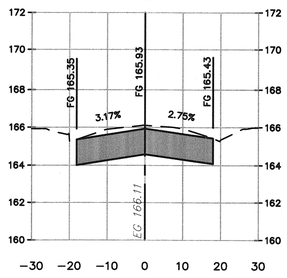
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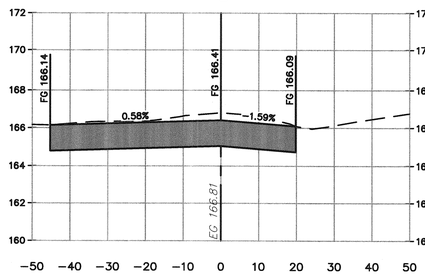
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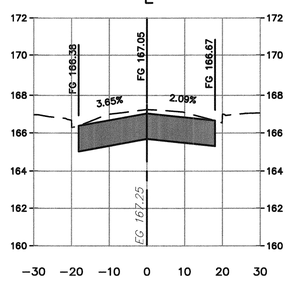
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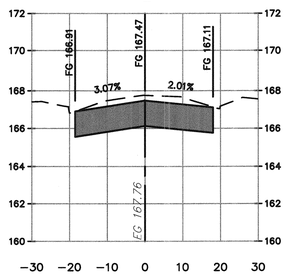
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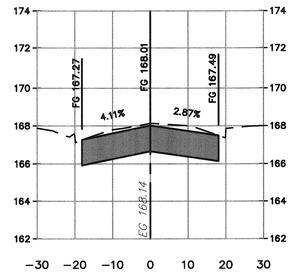
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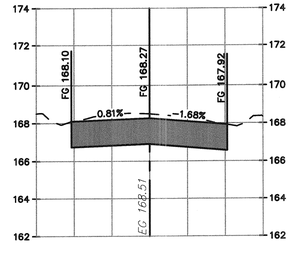
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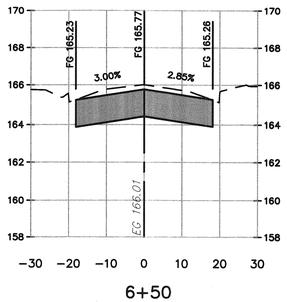
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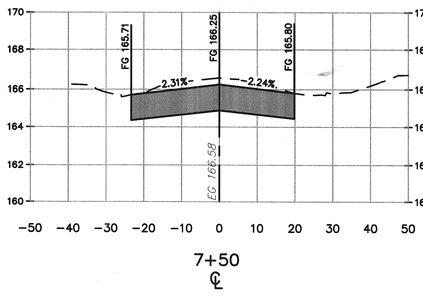
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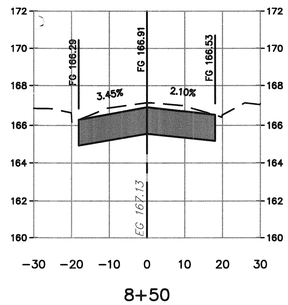
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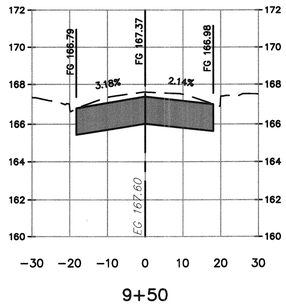
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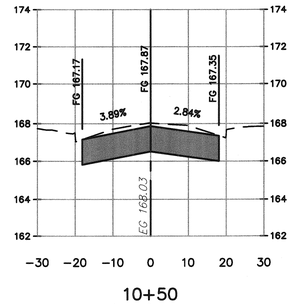
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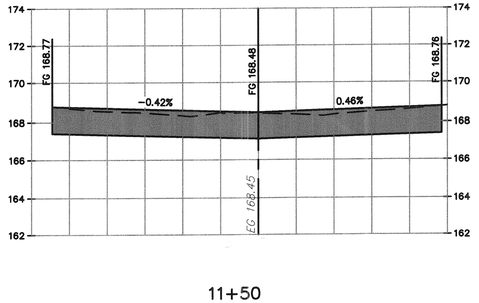
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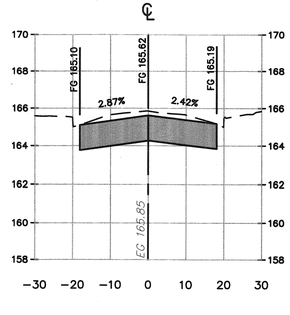
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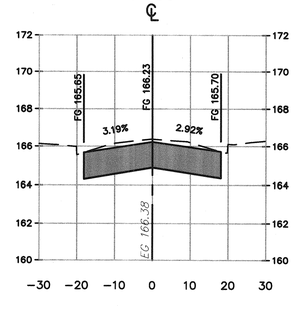
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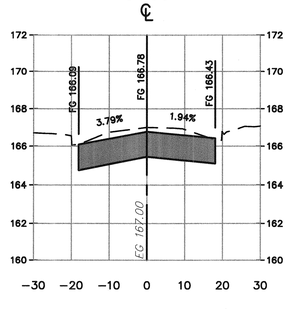
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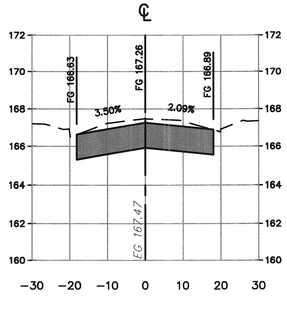
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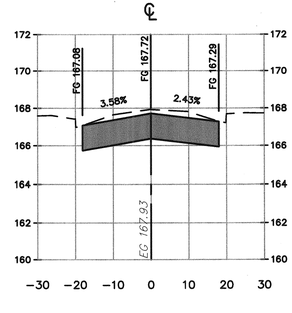
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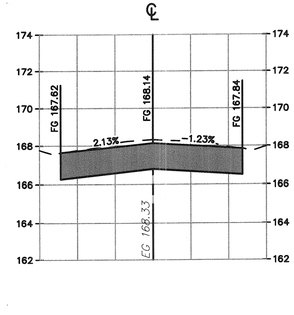
9+50 ℄



10+50 ℄



11+50 ℄



PACIFIC AVE
HORZ. 1" = 20'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL BARNEY — No. 44511 — CIVIL — STATE OF CALIFORNIA — 6/17/20

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2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542-4820

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UNDERGROUND SERVICE ALERT
811
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

NO.	DATE	REVISION	BY	Dept.	Signature	Date
				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
APPROVED: *Deputy Director – Engineering*
By LORI URBANEK
Date 7/3/2020
SCALE: 1"=20'
DWN BY: JM

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

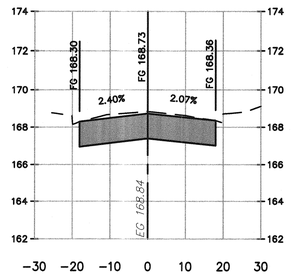
CROSS SECTIONS - STA: 6+50 TO 12+25

CONTRACT NO. C00661
SHEET 13 OF 33
FILE NO. 2019-0056

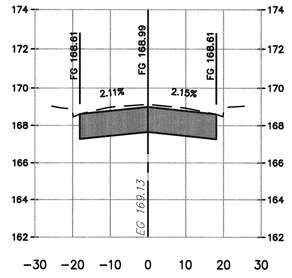
PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE- CITY CONTRACT NO. C00661

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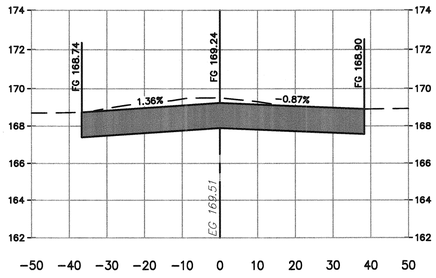
13+25 ℄



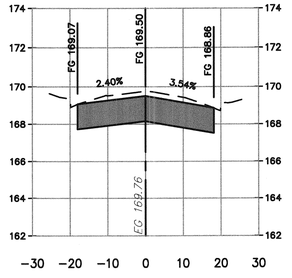
14+25 ℄



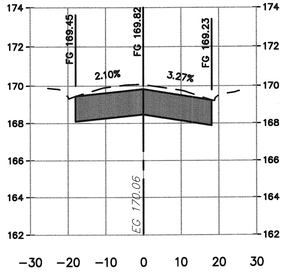
15+25 ℄



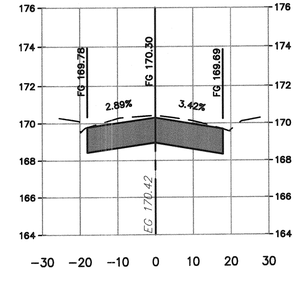
16+25 ℄



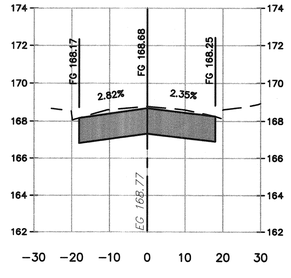
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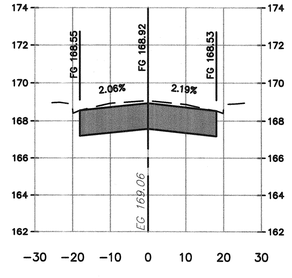
18+25 ℄



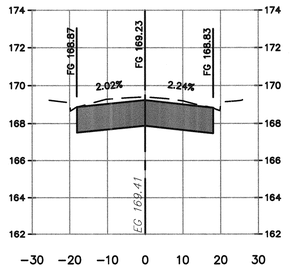
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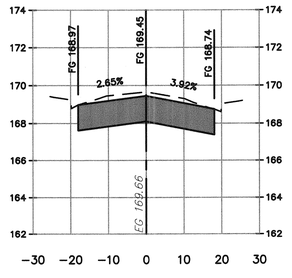
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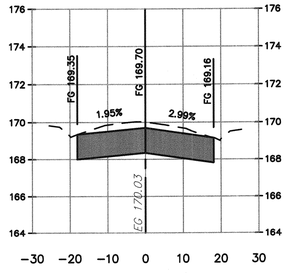
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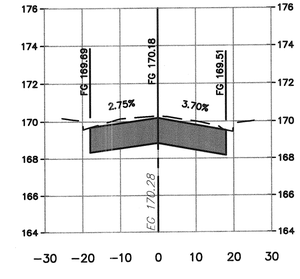
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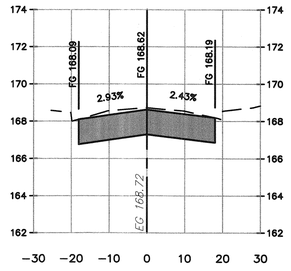
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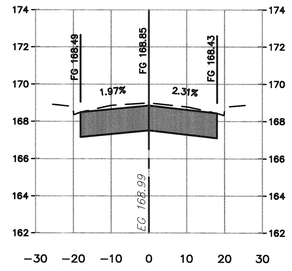
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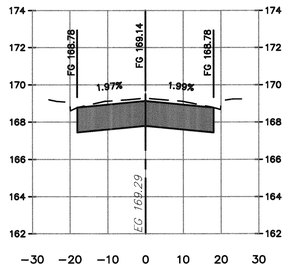
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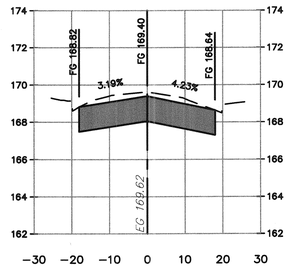
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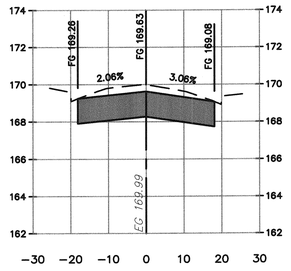
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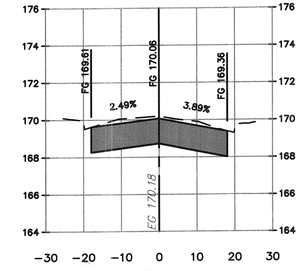
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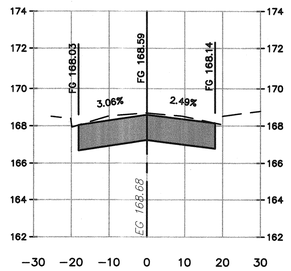
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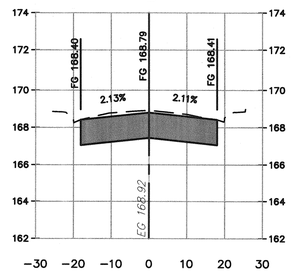
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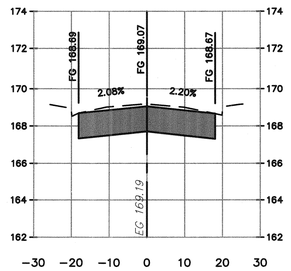
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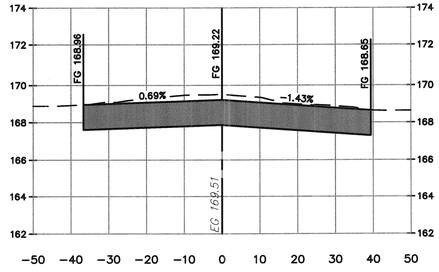
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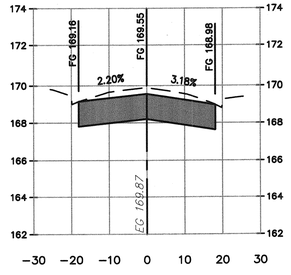
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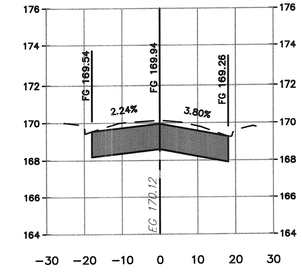
15+50 ℄



16+50 ℄



17+50 ℄



PACIFIC AVE

HORZ. 1" = 20'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL — No. 44511 — 6/17/20 — CIVIL — STATE OF CALIFORNIA

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NO.	DATE	REVISION	BY	Dept.	Signature	Date
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SCALE: 1"=20'
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD
APPROVED: *Deputy Director – Engineering*
By LORI URBANEK
Date 7/13/2020

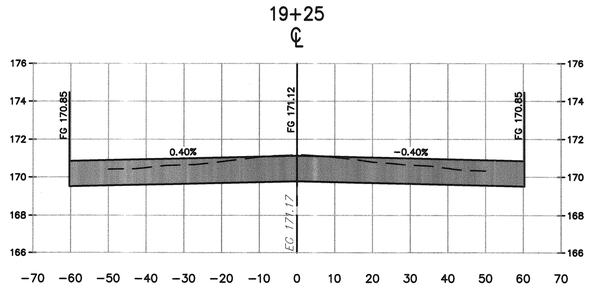
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

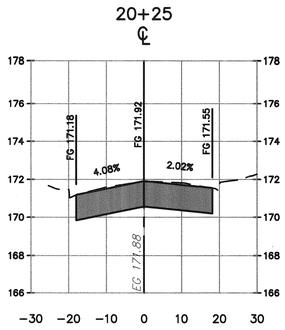
CROSS SECTIONS - STA:12+50 TO 18+25

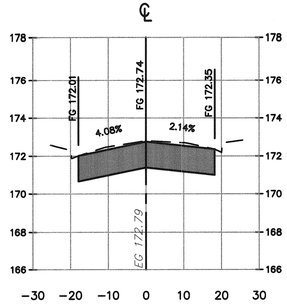
CONTRACT NO. C00661
SHEET 14 OF 33
FILE NO. 2019–0056

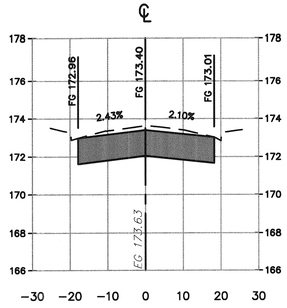
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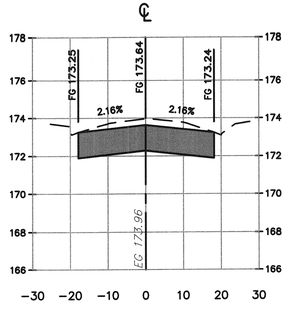
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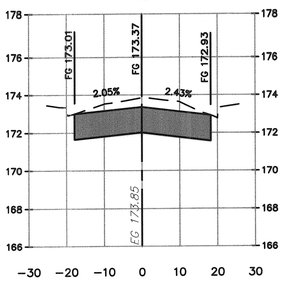


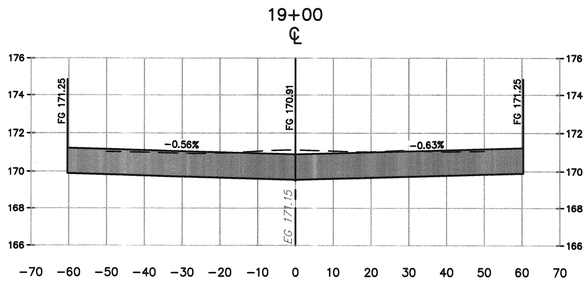


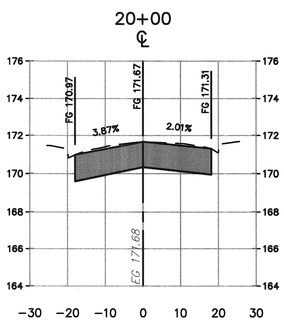


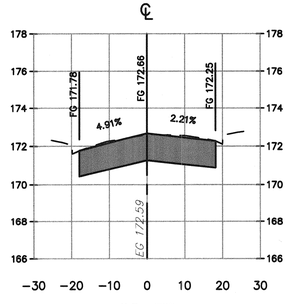


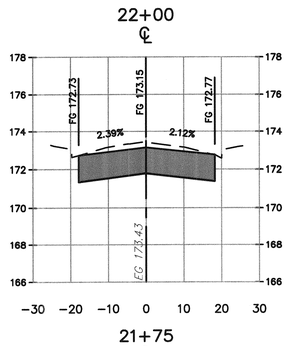


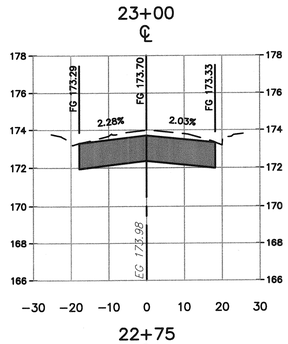


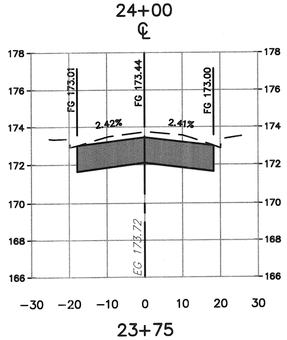


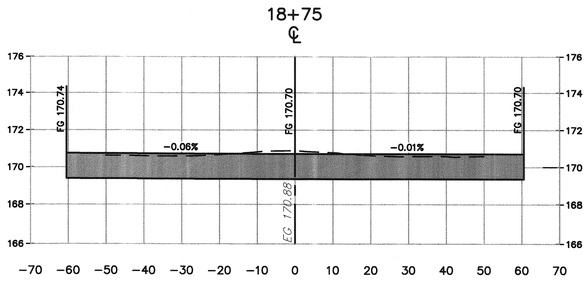


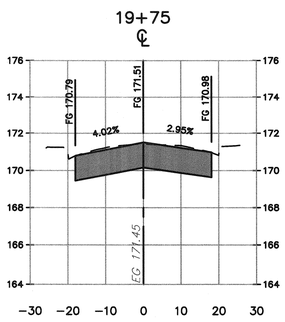


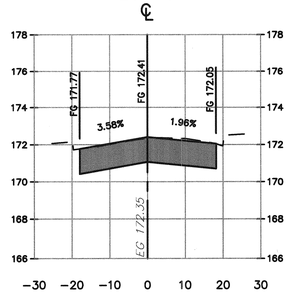


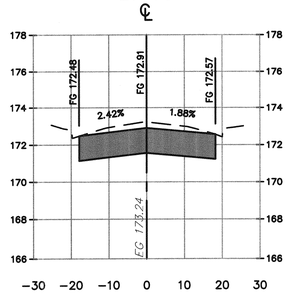


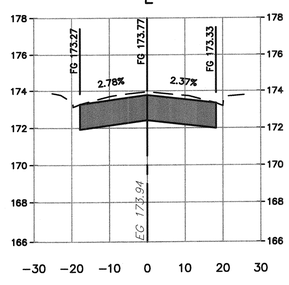


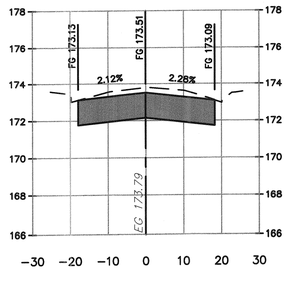


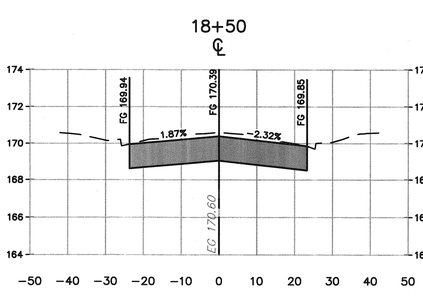


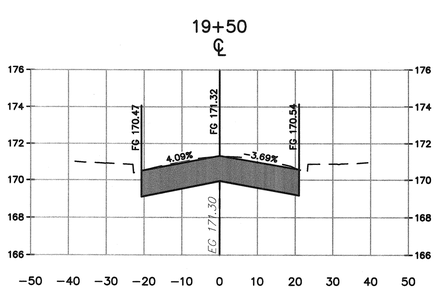


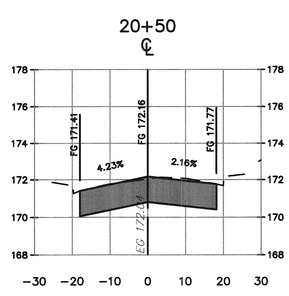


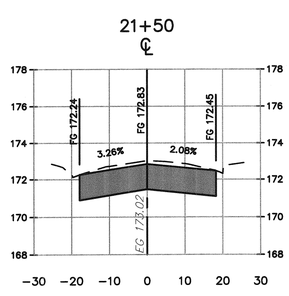


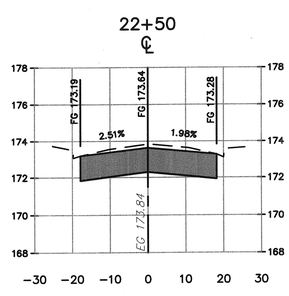


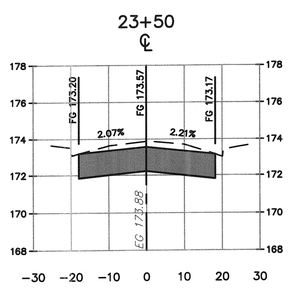












PACIFIC AVE
HORZ. 1" = 20'
VERT: 1" = 4'

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REGISTERED PROFESSIONAL ENGINEER
DENNIS DANIEL FORDE
No. 44511
6/17/20
CIVIL
STATE OF CALIFORNIA

CIVIL DESIGN CONSULTANTS, INC.
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Santa Rosa, CA 95403
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SCALE: 1"=20'
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD
APPROVED: Deputy Director - Engineering
Date 7/9/2020
By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

CROSS SECTIONS - STA:18+50 TO 24+25

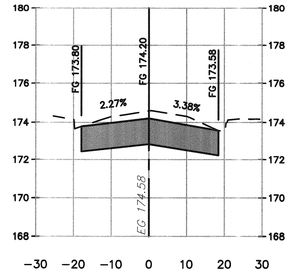
CONTRACT NO.
C00661

SHEET 15 OF 33

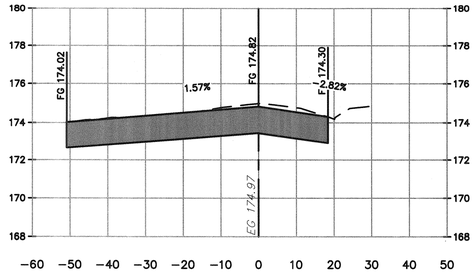
FILE NO. 2019-0056

PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE- CITY CONTRACT NO. C00661

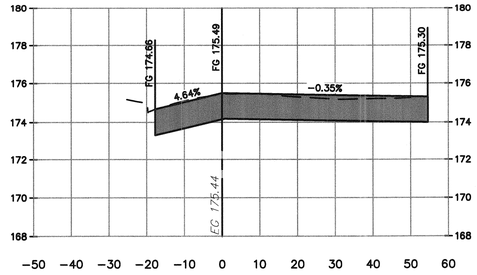
25+25 ℄



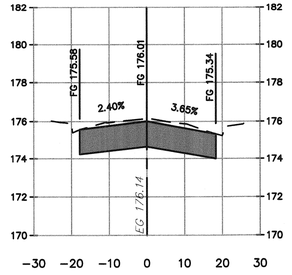
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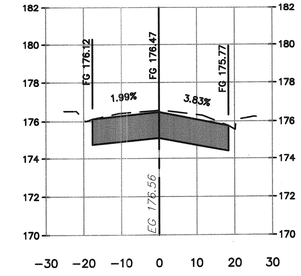
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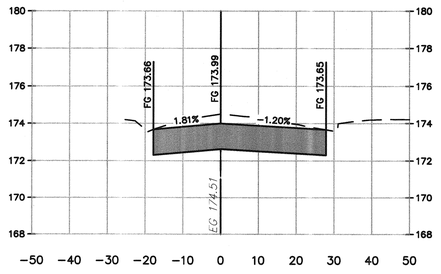
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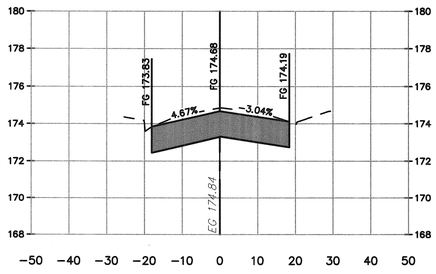
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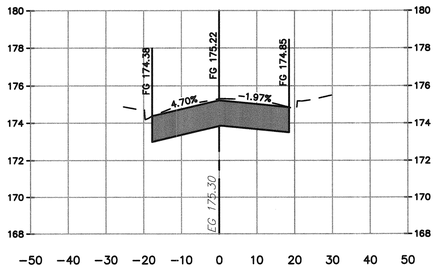
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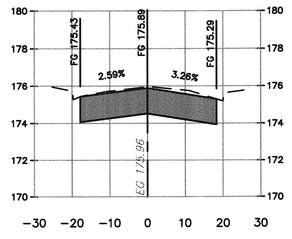
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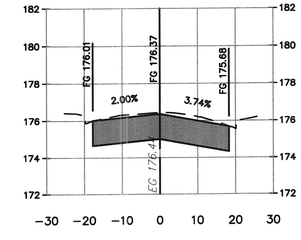
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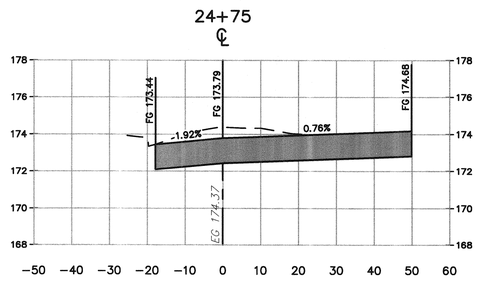
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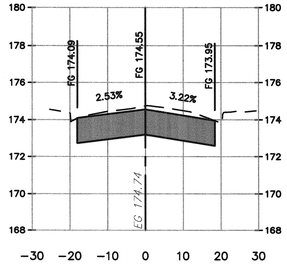
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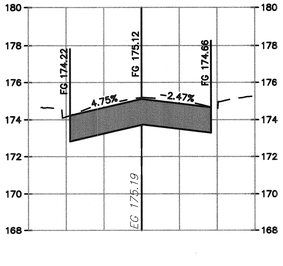
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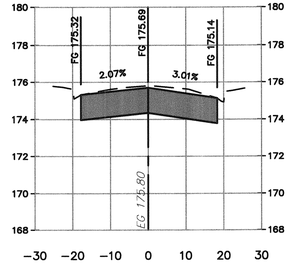
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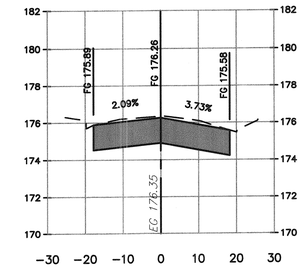
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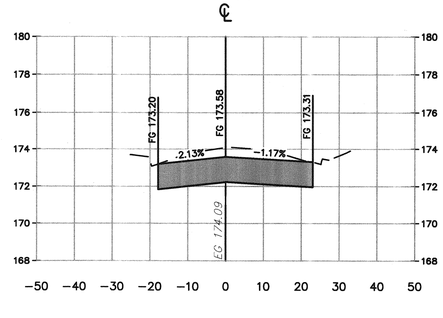
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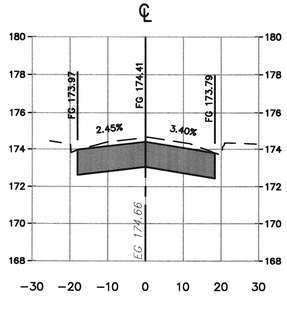
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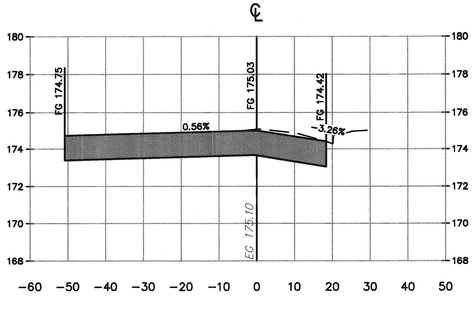
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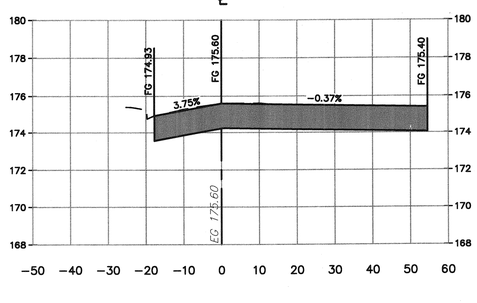
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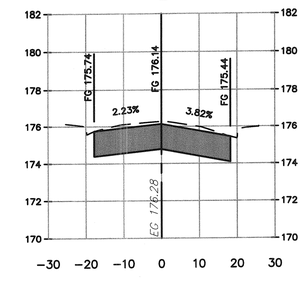
26+50 ℄



27+50 ℄



28+75 ℄



PACIFIC AVE

HORZ. 1" = 20'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER
DENNIS DANIEL BYRNE
No. 44511
6/17/20
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STATE OF CALIFORNIA

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				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
SCALE: 1"=20'
DWN BY: JM

APPROVED: *Deputy Director – Engineering*
Date 7/3/2020
By LORI URBANEK

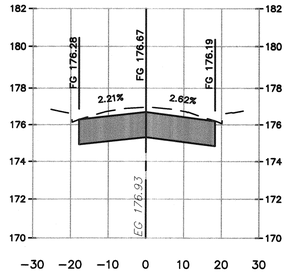
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

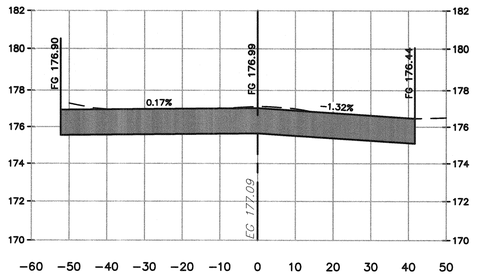
CROSS SECTIONS - STA: 24+50 TO 29+50

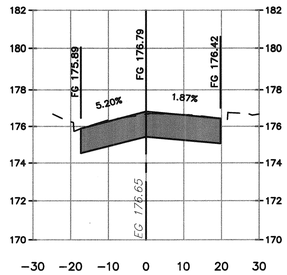
CONTRACT NO. C00661
SHEET 16 OF 33
FILE NO. 2019–0056

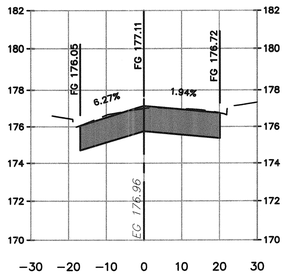
PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE– CITY CONTRACT NO. C00661

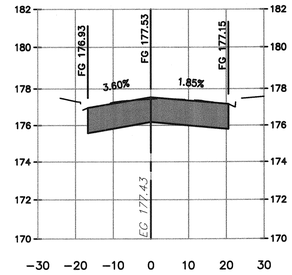
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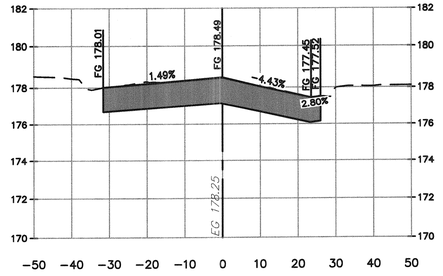


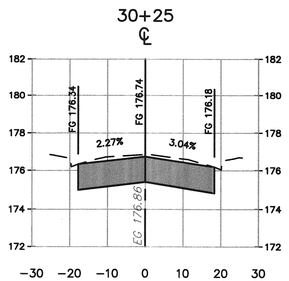


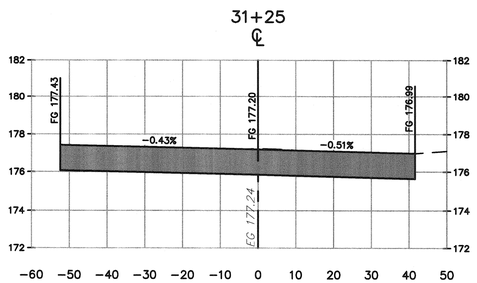


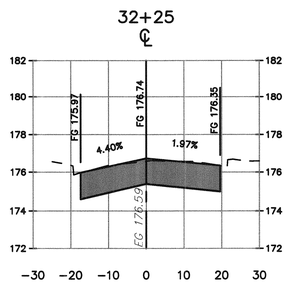


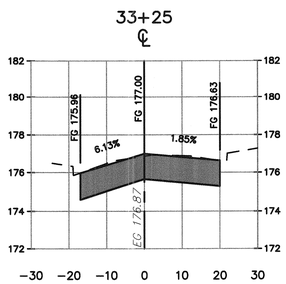


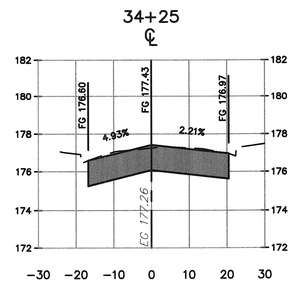


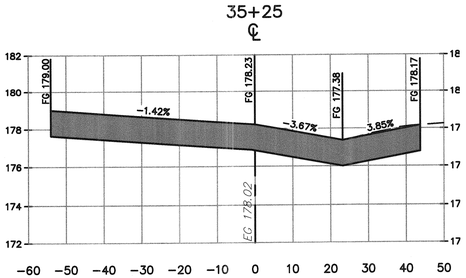


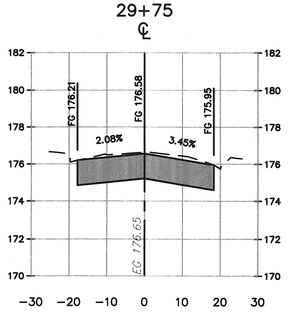


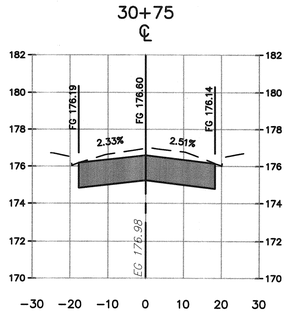


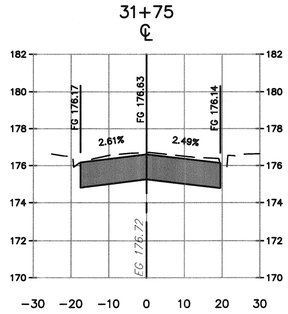


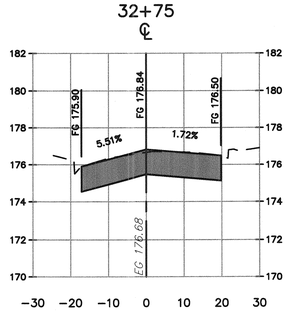


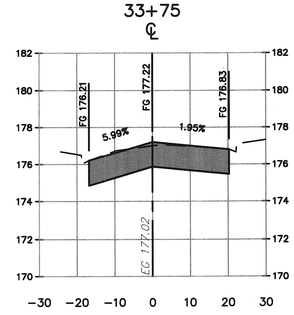


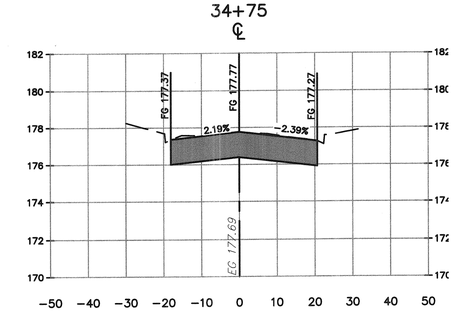












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PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

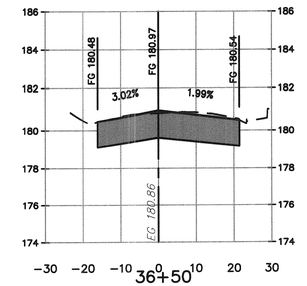
CROSS SECTIONS - STA: 29+75 TO 35+75

CONTRACT NO. C00661
SHEET 17 OF 33
FILE NO. 2019-0056

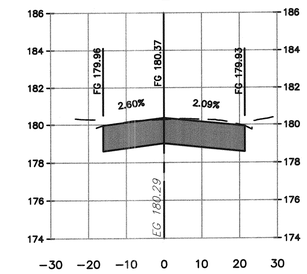
PACIFIC AVE RECONSTRUCTION- HUMBOLDT ST TO MONTECITO AVE- CITY CONTRACT NO. C00661

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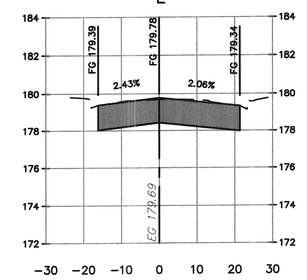
36+75
℄



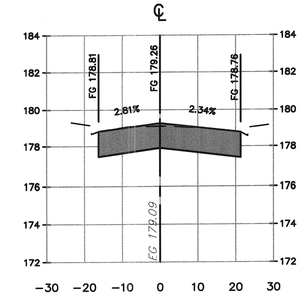
36+50
℄



36+25
℄



36+00
℄



PACIFIC AVE
HORZ. 1" = 20'
VERT: 1" = 4'

REGISTERED PROFESSIONAL ENGINEER
DENNIS DANIEL DDD
No. 44511
6/17/20
CIVIL
STATE OF CALIFORNIA

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
Santa Rosa, CA 95403
(707) 542-4820

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				Design/Const		
				Survey		
				TPW, Field Svc's		
				Utilities Op s		
				Traffic		
				Storm Water		
				Materials Lab		

DATE: JUNE 17, 2020
CHK BY: DDD
SCALE: 1"=20'
DWN BY: JM

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK Date 7/2/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

CROSS SECTIONS - STA: 36+00 TO 36+75

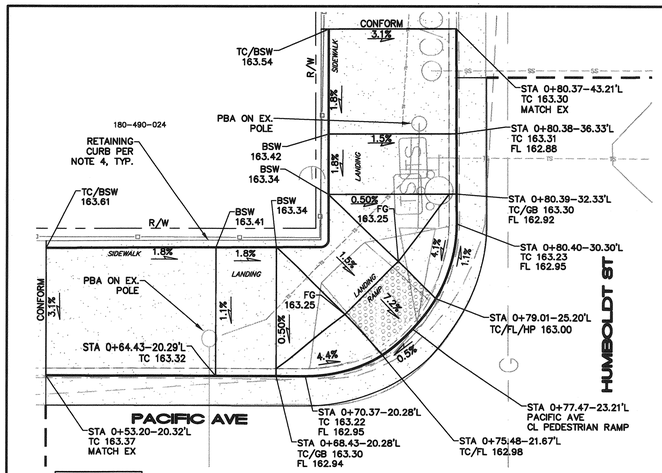
CONTRACT NO.
C00661

SHEET 18 OF 33

FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE– CITY CONTRACT NO. C00661

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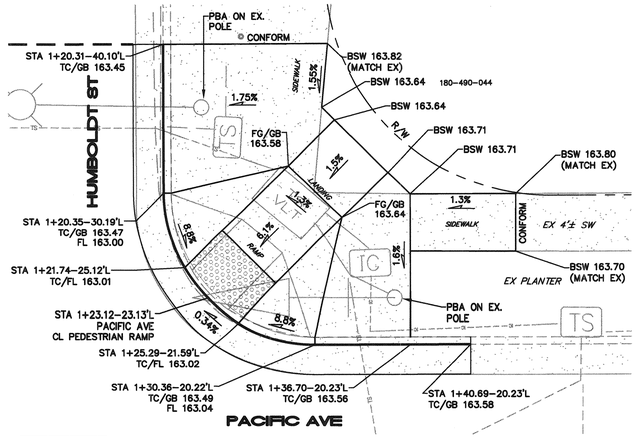


CASE B RAMP

1 PACIFIC AVENUE AT HUMBOLDT STREET, NORTHWEST CURB RETURN

SEE SHEET 4

SCALE: 1"=5'

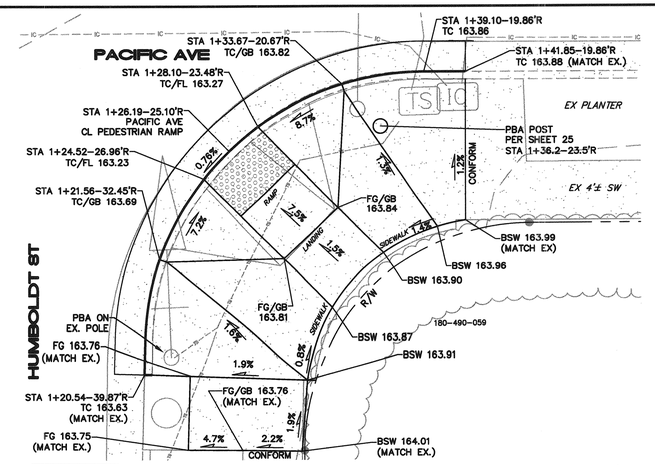


CASE A RAMP

2 PACIFIC AVENUE AT HUMBOLDT STREET, NORTHEAST CURB RETURN

SEE SHEET 4

SCALE: 1"=5'

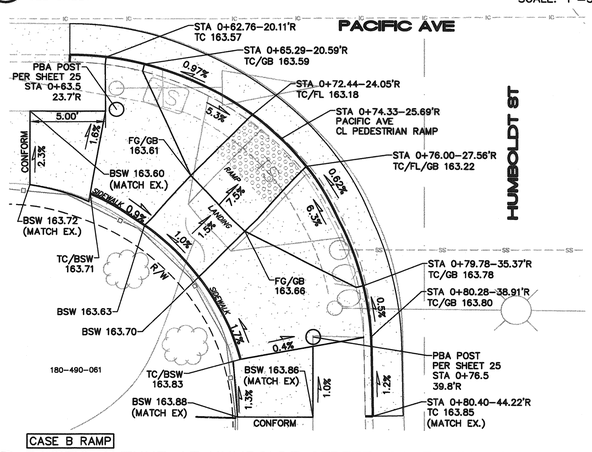


CASE A RAMP

3 PACIFIC AVENUE AT HUMBOLDT STREET, SOUTHEAST CURB RETURN

SEE SHEET 4

SCALE: 1"=5'

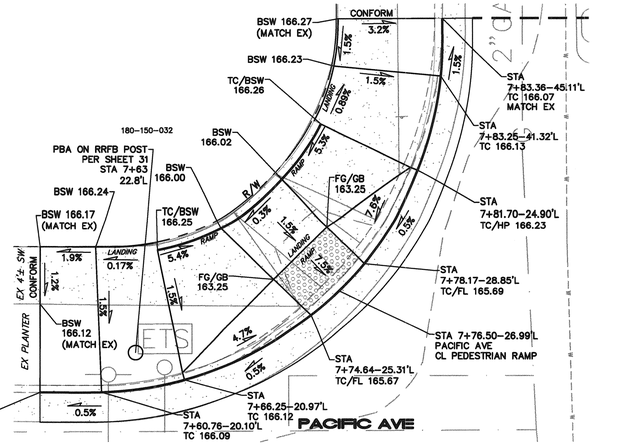


CASE B RAMP

4 PACIFIC AVENUE AT HUMBOLDT STREET, SOUTHWEST CURB RETURN

SEE SHEET 4

SCALE: 1"=5'

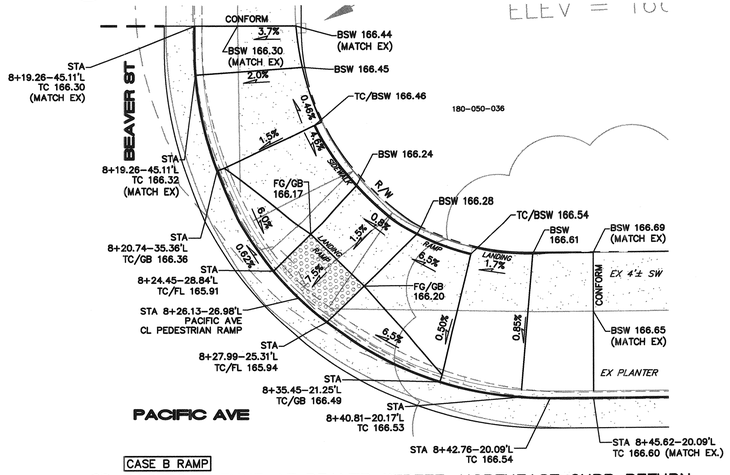


CASE B RAMP

5 PACIFIC AVENUE AT BEAVER STREET, NORTHWEST CURB RETURN

SEE SHEET 5

SCALE: 1"=5'

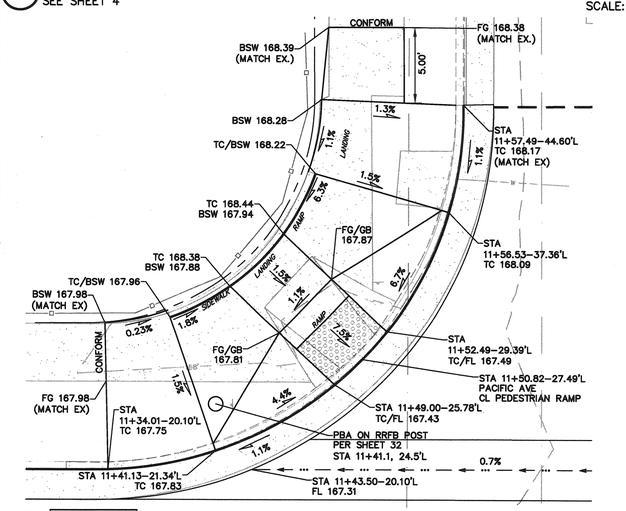


CASE B RAMP

6 PACIFIC AVENUE AT BEAVER STREET, NORTHEAST CURB RETURN

SEE SHEET 5

SCALE: 1"=5'

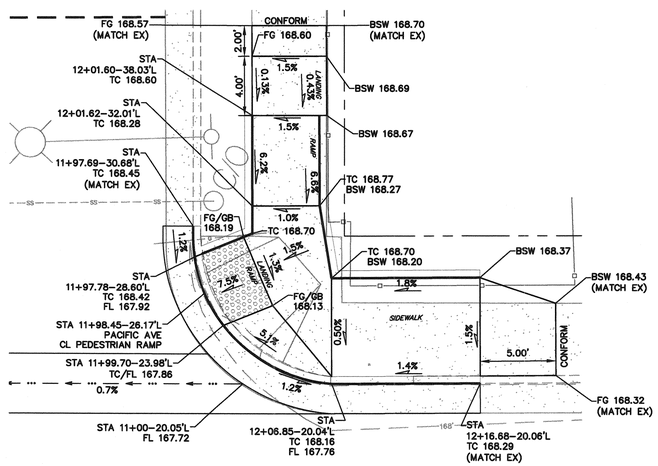


CASE B RAMP

7 PACIFIC AVENUE AT KING STREET, NORTHWEST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'



CASE B/G RAMP

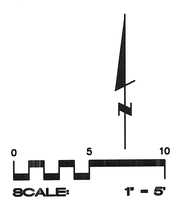
8 PACIFIC AVENUE AT KING STREET, NORTHEAST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

CURB RAMP NOTES

1. DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A, AND CBC 11B–705.1. DETECTABLE WARNING SURFACE COLOR SHALL BE CALTRANS YELLOW.
2. SIDEWALK WEAKENED PLANES, SCORE MARKS AND EXPANSION JOINTS PER CITY STD 235.
3. ALL CURB RAMPS SIMILAR TO CALTRANS PLAN RSP A88A, CASE A, B OR C (PER PLAN), AND SHALL BE IN CONFORMANCE WITH APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA CODE OF REGULATIONS TITLE 24 STANDARDS (CBC) AND THE 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS.
4. RETAINING CURBS SHALL BE 6" WIDE, SIMILAR TO CITY STANDARD 242 TYPE A, AND TOPS SHALL MATCH EXISTING GROUND ELEVATION AT THE BACK OF SIDEWALK UNLESS OTHERWISE NOTED OR DIRECTED.
5. BACK OF SIDEWALK OR BACK OF CURB SHALL MATCH EXISTING BACK OF SIDEWALK FOOTPRINT.
6. SEE SHEET 24 FOR PROPOSED PAVEMENT STRIPING.
7. ALL EXISTING CITY UTILITY BOXES SHALL BE RELOCATED OUTSIDE OF RAMP FLARES AND SHALL BE MOVED TO A FLAT AREA FREE OF GRADE BREAKS.
8. CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING STRUCTURES AND/OR LANDSCAPING OUTSIDE OF THE SCOPE OF CURB RAMP CONSTRUCTION. CONTRACTOR SHALL REPLACE IN–KIND ANY DAMAGED EXISTING STRUCTURES AND/OR LANDSCAPING.



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				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK
Date 7/1/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PEDESTRIAN RAMPS

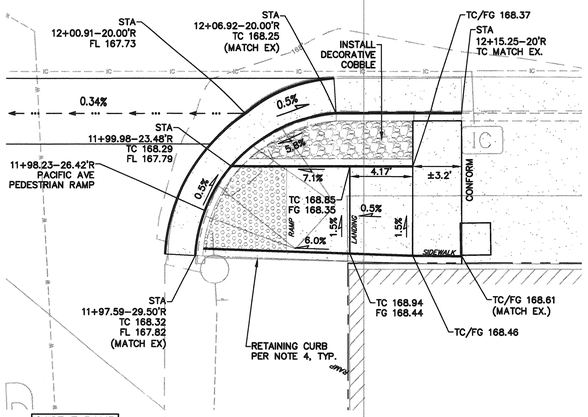
CONTRACT NO. C00661

SHEET 19 OF 33

FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION–HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

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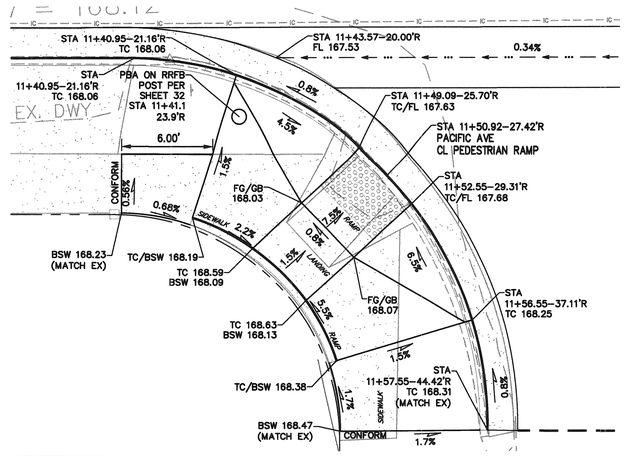


CASE F RAMP

9 PACIFIC AVENUE AT KING STREET, SOUTHEAST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

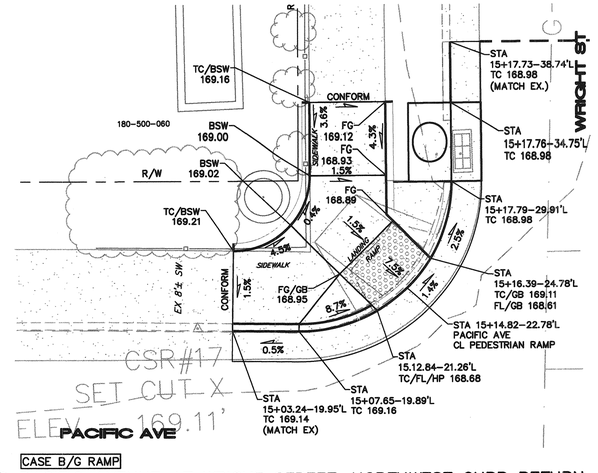


CASE B RAMP

10 PACIFIC AVENUE AT KING STREET, SOUTHWEST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

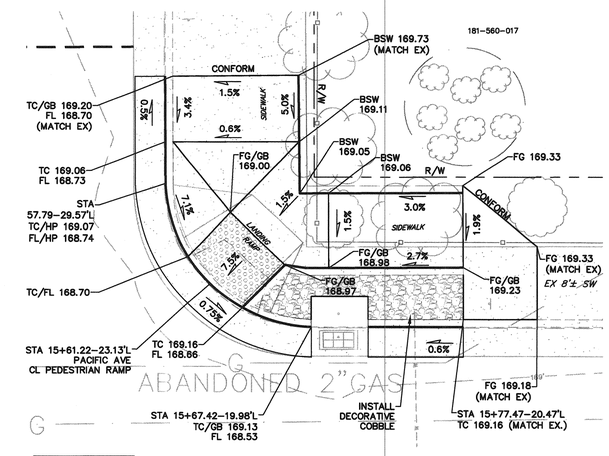


CASE B/G RAMP

11 PACIFIC AVENUE AT WRIGHT STREET, NORTHWEST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

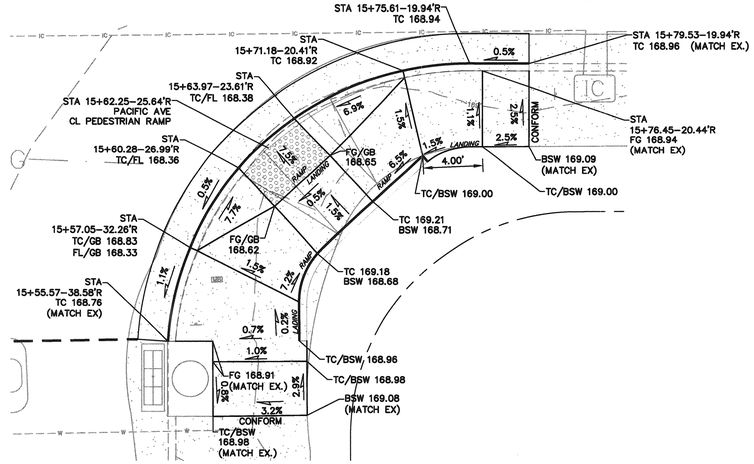


CASE B/G RAMP

12 PACIFIC AVENUE AT WRIGHT STREET, NORTHEAST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

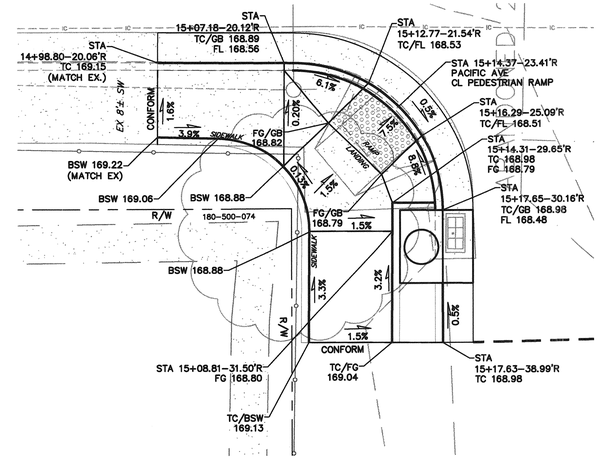


CASE B RAMP

13 PACIFIC AVENUE AT WRIGHT STREET, SOUTHEAST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

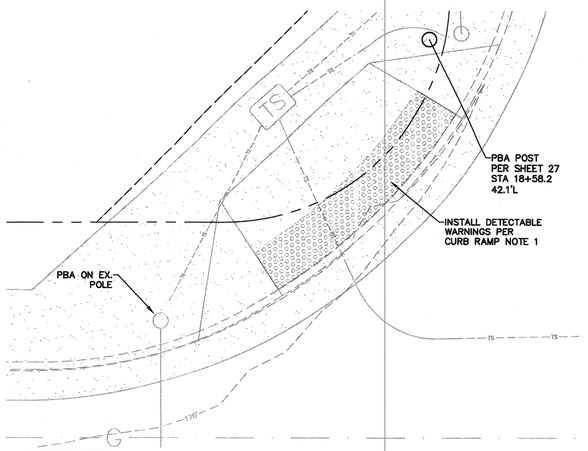


CASE B/G RAMP

14 PACIFIC AVENUE AT WRIGHT STREET, SOUTHWEST CURB RETURN

SEE SHEET 6

SCALE: 1"=5'

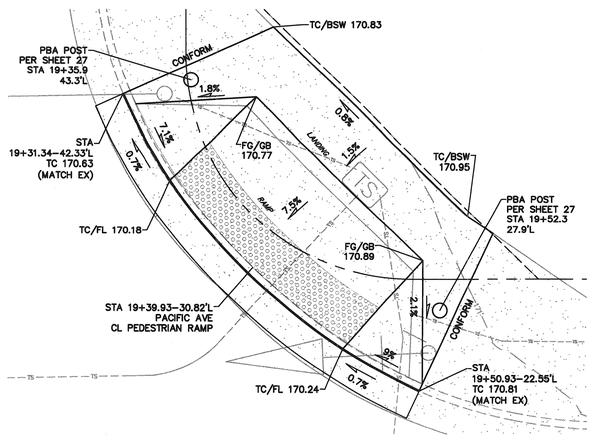


CASE A RAMP

15 PACIFIC AVENUE AT NORTH STREET, NORTHWEST CURB RETURN

SEE SHEET 7

SCALE: 1"=5'



CASE A RAMP

16 PACIFIC AVENUE AT NORTH STREET, NORTHEAST CURB RETURN

SEE SHEET 7

SCALE: 1"=5'

CURB RAMP NOTES

1. DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A, AND CBC 11B–705.1. DETECTABLE WARNING SURFACE COLOR SHALL BE CALTRANS YELLOW.
2. SIDEWALK WEAKENED PLANES, SCORE MARKS AND EXPANSION JOINTS PER CITY STD 235.
3. ALL CURB RAMPS SIMILAR TO CALTRANS PLAN RSP A88A, CASE A, B OR C (PER PLAN), AND SHALL BE IN CONFORMANCE WITH APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA CODE OF REGULATIONS TITLE 24 STANDARDS (CBC) AND THE 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS.
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REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL DAGET — No. 44511 — CIVIL — STATE OF CALIFORNIA — 6/17/20

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				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK Date 7/13/2020

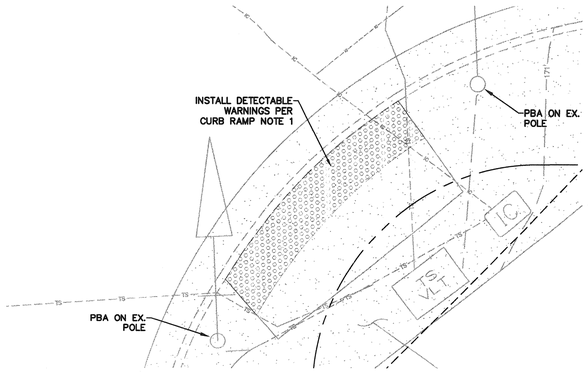
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PEDESTRIAN RAMPS

CONTRACT NO. C00661
SHEET 20 OF 33
FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION–HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

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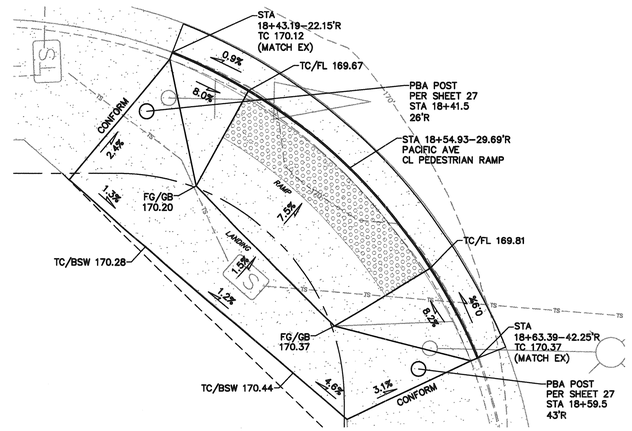


CASE A RAMP

17 PACIFIC AVENUE AT NORTH STREET, SOUTHEAST CURB RETURN

SEE SHEET 7

SCALE: 1"=5'

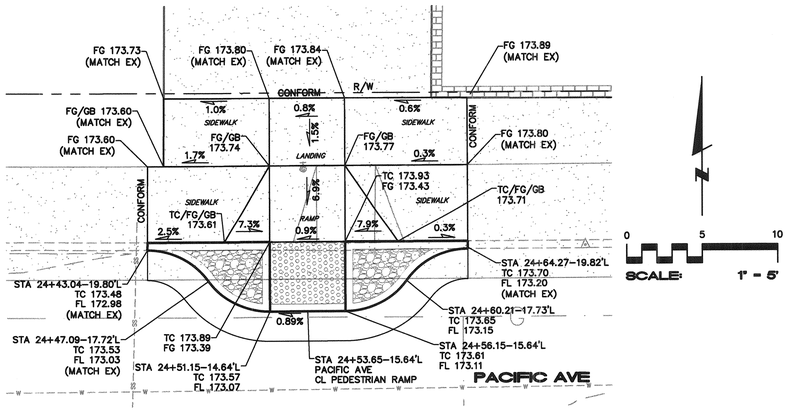


CASE A RAMP

18 PACIFIC AVENUE AT NORTH STREET, SOUTHWEST CURB RETURN

SEE SHEET 7

SCALE: 1"=5'

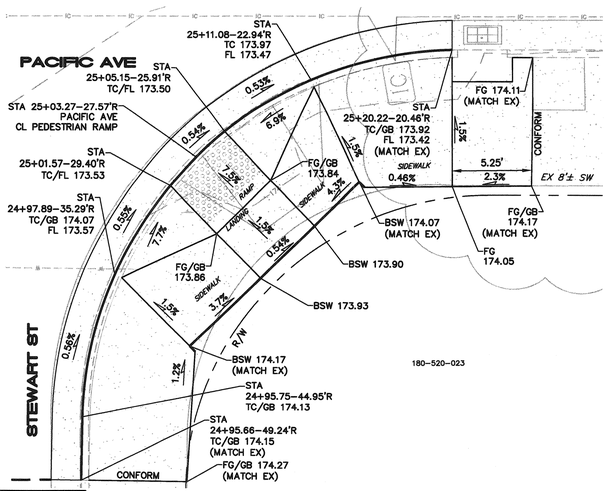


CASE E RAMP

19 PACIFIC AVENUE AT STEWART STREET, NORTH PEDESTRIAN RAMP

SEE SHEET 8

SCALE: 1"=5'

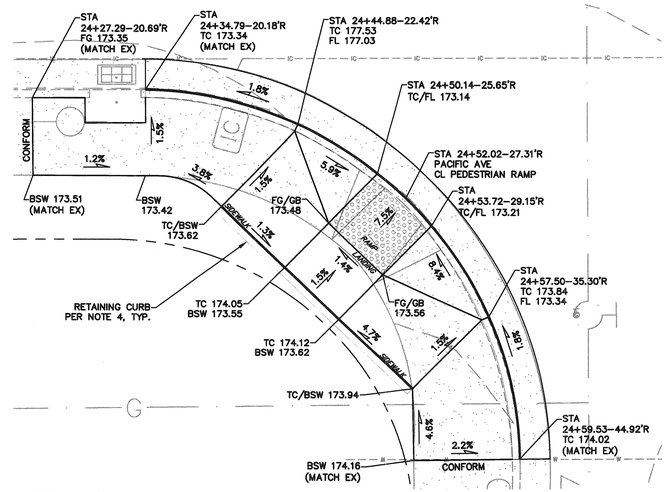


CASE B RAMP

20 PACIFIC AVENUE AT STEWART STREET, SOUTHEAST CURB RETURN

SEE SHEET 8

SCALE: 1"=5'

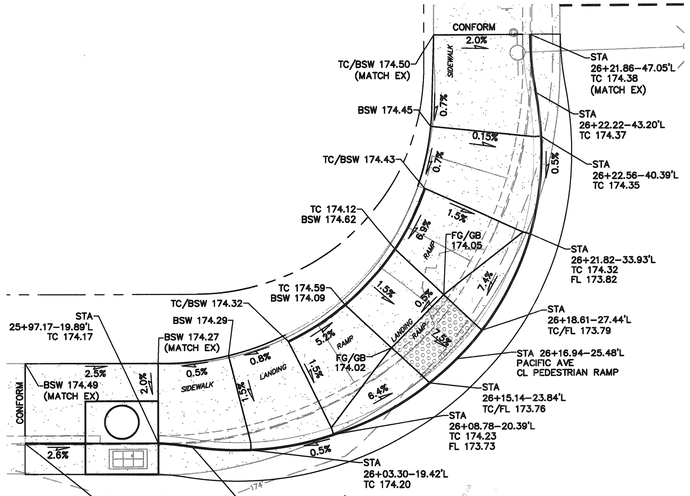


CASE B RAMP

21 PACIFIC AVENUE AT STEWART STREET, SOUTHWEST CURB RETURN

SEE SHEET 8

SCALE: 1"=5'

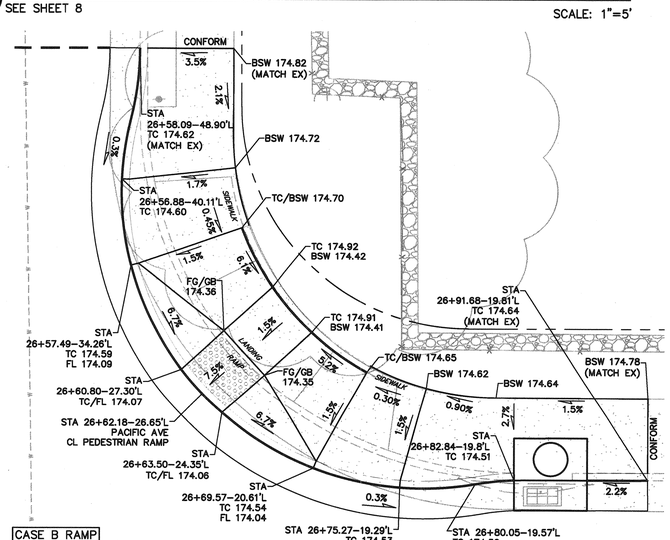


CASE B RAMP

22 PACIFIC AVENUE AT MONROE STREET, NORTHWEST CURB RETURN

SEE SHEET 8

SCALE: 1"=5'

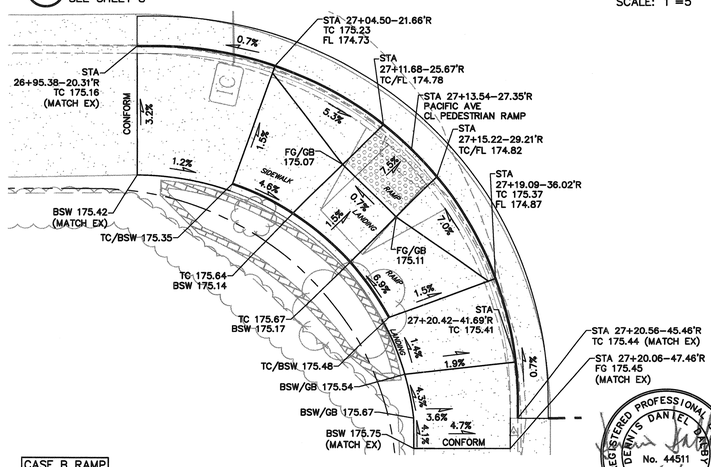


CASE B RAMP

23 PACIFIC AVENUE AT MONROE STREET, NORTHEAST CURB RETURN

SEE SHEET 8

SCALE: 1"=5'



CASE B RAMP

24 PACIFIC AVENUE AT MONROE STREET, SOUTHWEST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'

CURB RAMP NOTES

1. DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A, AND CBC 11B–705.1. DETECTABLE WARNING SURFACE COLOR SHALL BE CALTRANS YELLOW.
2. SIDEWALK WEAKENED PLANES, SCORE MARKS AND EXPANSION JOINTS PER CITY STD 235.
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Utilities Op's
Traffic
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Materials Lab

Dept. | Signature | Date

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DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK
Date 7/3/2020

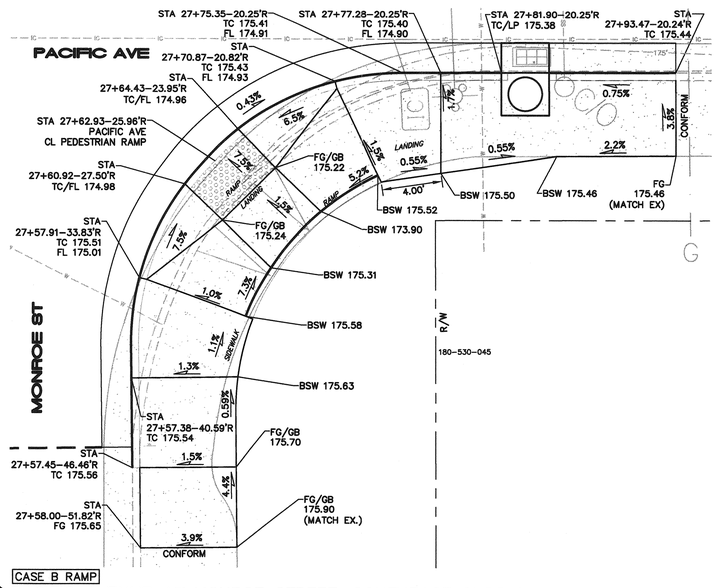
CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PEDESTRIAN RAMPS

CONTRACT NO. C00661
SHEET 21 OF 33
FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION–HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

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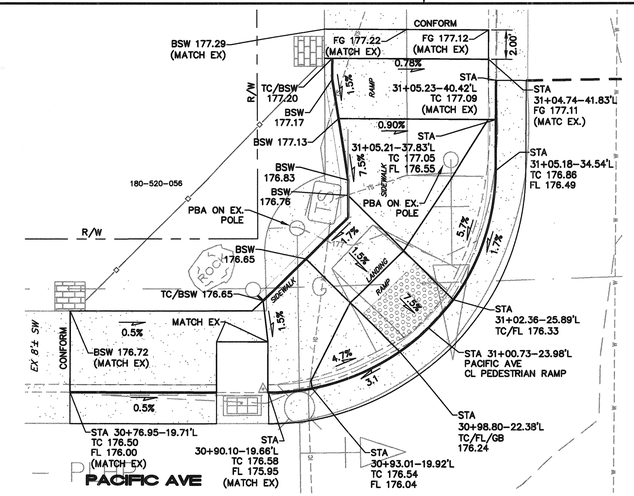


CASE B RAMP

25 PACIFIC AVENUE AT MONROE STREET, SOUTHEAST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'

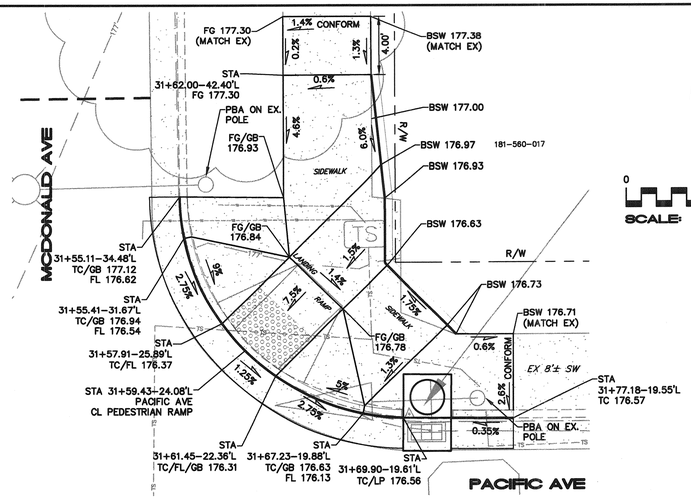


CASE B RAMP

26 PACIFIC AVENUE AT MCDONALD AVENUE, NORTHWEST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'



CASE B RAMP

27 PACIFIC AVENUE AT MCDONALD AVENUE, NORTHEAST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'

CASE B RAMP

28 PACIFIC AVENUE AT MCDONALD AVENUE, SOUTHEAST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'

CASE B RAMP

29 PACIFIC AVENUE AT MCDONALD AVENUE, SOUTHWEST CURB RETURN

SEE SHEET 9

SCALE: 1"=5'

CASE B RAMP

30 PACIFIC AVENUE AT ELIZABETH WAY, NORTHWEST CURB RETURN

SEE SHEET 10

SCALE: 1"=5'

CURB RAMP NOTES

1. DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A, AND CBC 11B–705.1. DETECTABLE WARNING SURFACE COLOR SHALL BE CALTRANS YELLOW.
2. SIDEWALK WEAKENED PLANES, SCORE MARKS AND EXPANSION JOINTS PER CITY STD 235.
3. ALL CURB RAMPS SIMILAR TO CALTRANS PLAN RSP A88A, CASE A, B OR C (PER PLAN), AND SHALL BE IN CONFORMANCE WITH APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA CODE OF REGULATIONS TITLE 24 STANDARDS (CBC) AND THE 2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS.
4. RETAINING CURBS SHALL BE 6" WIDE, SIMILAR TO CITY STANDARD 242 TYPE A, AND TOPS SHALL MATCH EXISTING GROUND ELEVATION AT THE BACK OF SIDEWALK UNLESS OTHERWISE NOTED OR DIRECTED.
5. BACK OF SIDEWALK OR BACK OF CURB SHALL MATCH EXISTING BACK OF SIDEWALK FOOTPRINT.
6. SEE SHEET 24 FOR PROPOSED PAVEMENT STRIPING.
7. ALL EXISTING CITY UTILITY BOXES SHALL BE RELOCATED OUTSIDE OF RAMP FLARES AND SHALL BE MOVED TO A FLAT AREA FREE OF GRADE BREAKS.
8. CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING STRUCTURES AND/OR LANDSCAPING OUTSIDE OF THE SCOPE OF CURB RAMP CONSTRUCTION. CONTRACTOR SHALL REPLACE IN–KIND ANY DAMAGED EXISTING STRUCTURES AND/OR LANDSCAPING.

REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL — No. 44511 — CIVIL — STATE OF CALIFORNIA — 6/17/20

CIVIL DESIGN CONSULTANTS, INC.
2200 Range Avenue, Suite 204
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(707) 542–4820

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PLANNED WORK OPERATIONS

NO.	DATE	REVISION	BY	Date
				Signature
				Dept.
				Design/Const
				Survey
				TPW Field Svc's
				Utilities Op s
				Traffic
				Storm Water
				Materials Lab

NO SCALE | DATE: JUNE 17, 2020
DWN BY: JM | CHK BY: DDD

APPROVED: *Deputy Director – Engineering* Date 7/3/2020
By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION
HUMBOLDT STREET TO MONTECITO AVENUE

PEDESTRIAN RAMPS

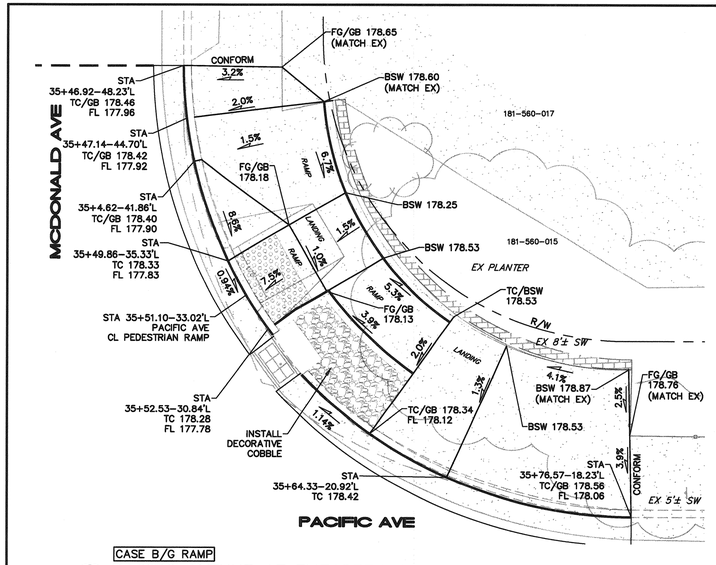
CONTRACT NO. C00661

SHEET 22 OF 33

FILE NO. 2019–0056

PACIFIC AVENUE RECONSTRUCTION–HUMBOLDT STREET TO MONTECITO AVENUE – CITY CONTRACT NO. C0XXXX

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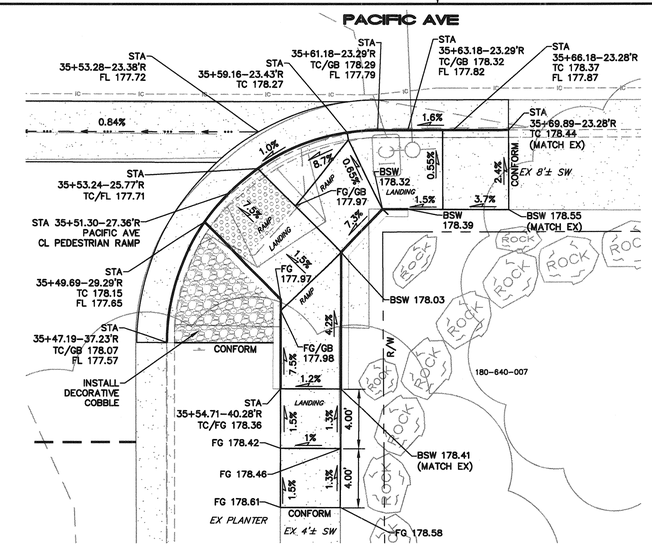


CASE B/G RAMP

31 PACIFIC AVENUE AT ELIZABETH WAY, NORTHEAST CURB RETURN

SEE SHEET 10

SCALE: 1"=5'

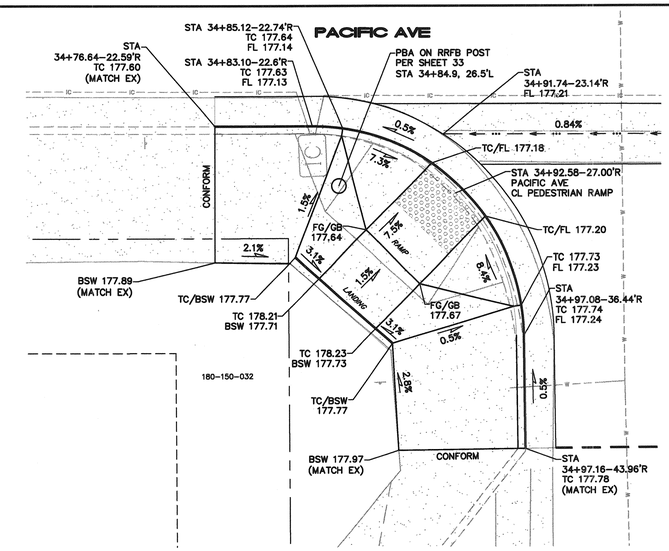


CASE B/G RAMP

32 PACIFIC AVENUE AT SPRING STREET, SOUTHEAST CURB RETURN

SEE SHEET 10

SCALE: 1"=5'



CASE B RAMP

33 PACIFIC AVENUE AT SPRING STREET, SOUTHWEST CURB RETURN

SEE SHEET 10

SCALE: 1"=5'

CASE G RAMP

34 PACIFIC AVENUE AT MONTECITO/BRYDEN AVE., NORTH CURB RETURN

SEE SHEET 10

SCALE: 1"=5'

CASE C RAMP

35 PACIFIC AVENUE AT MONTECITO/BRYDEN AVE., SOUTH CURB RETURN

SEE SHEET 10

SCALE: 1"=5'

CASE C RAMP

36 PACIFIC AVENUE AT MONTECITO/BRYDEN AVE., SOUTH CURB RETURN

SEE SHEET 5

SCALE: 1"=5'

CURB RAMP NOTES

1. DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A, AND CBC 11B–705.1. DETECTABLE WARNING SURFACE COLOR SHALL BE CALTRANS YELLOW.
2. SIDEWALK WEAKENED PLANES, SCORE MARKS AND EXPANSION JOINTS PER CITY STD 235.
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REGISTERED PROFESSIONAL ENGINEER — DENNIS DANIEL LUCEY — No. 44511 — CIVIL — 6/17/20 — STATE OF CALIFORNIA

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SCALE: 1" = 5'

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				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD
APPROVED: Deputy Director – Engineering
Date 7/3/2020
By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

PEDESTRIAN RAMPS

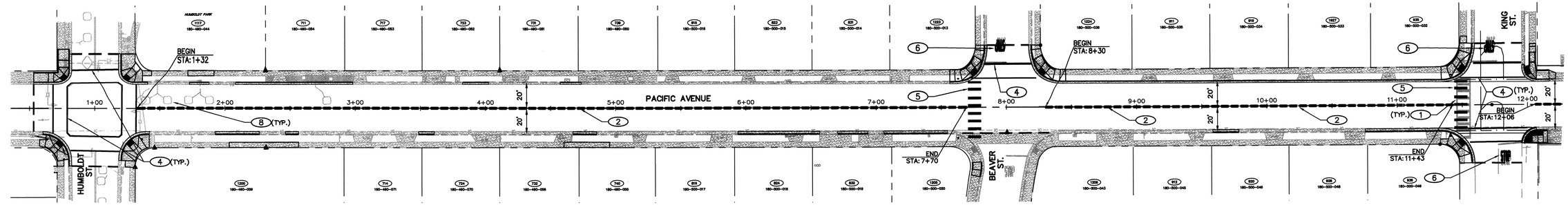
CONTRACT NO. C00661

SHEET 23 OF 33

FILE NO. 2019–0056

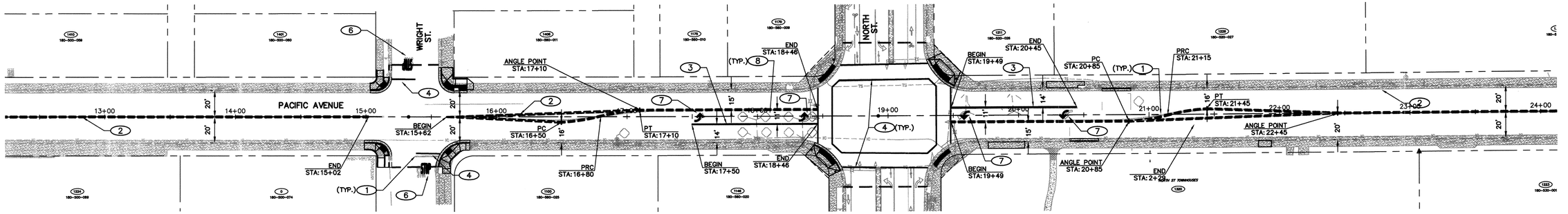
PACIFIC AVE RECONSTRUCTION–HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

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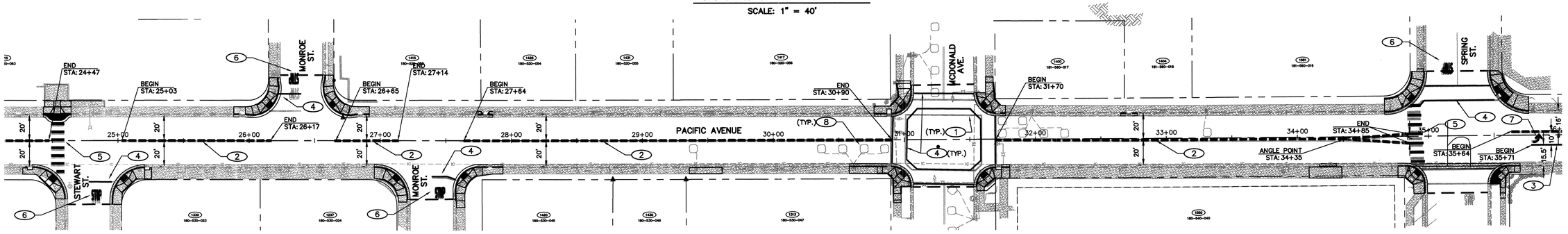
PACIFIC AVENUE

SCALE: 1" = 40'



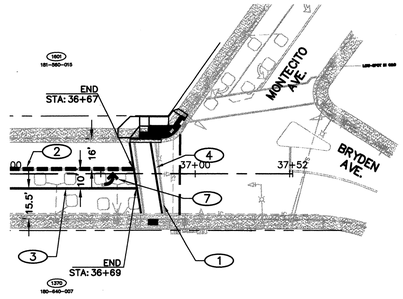
PACIFIC AVENUE

SCALE: 1" = 40'



PACIFIC AVENUE

SCALE: 1" = 40'



PACIFIC AVENUE

SCALE: 1" = 40'

0 40 100

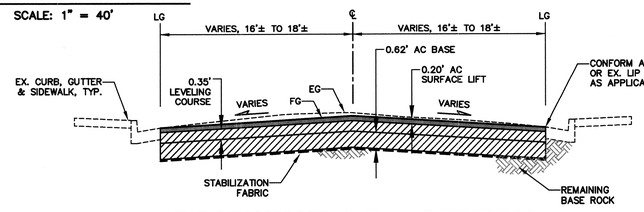
SCALE: 1" = 40'

CONSTRUCTION NOTES:

1. EX PAVEMENT STRIPING OR PAVEMENT MARKINGS TO BE REMOVED
2. INSTALL DOUBLE YELLOW CENTERLINE PER STATE OF CA STANDARD PLANS DETAIL 23 (2014 CA MUTCD FIGURE 3A–104).
3. INSTALL 8" THERMOPLASTIC CHANNELIZING LINE PER STATE OF CA STANDARD PLANS DETAIL 38 (2014 CA MUTCD FIGURE 3A–112).
4. INSTALL 12" WIDE THERMOPLASTIC CROSSWALK OR LIMIT LINE STRIPE
5. INSTALL 12" WHITE THERMOPLASTIC "CONTINENTAL" CROSSWALK PAVEMENT MARKING.
6. REMOVE AND REPLACE THERMOPLASTIC "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D.
7. REMOVE AND REPLACE THERMOPLASTIC "CITY" STYLE ARROW PER CA STANDARD PLANS TYPE IV (L) AND (R) ARROW DETAIL (2014 CA MUTCD FIGURE 3B–24).
8. REMOVE EXISTING TRAFFIC SIGNAL LOOPS WITHIN PROJECT LIMITS OR AS SPECIFIED IN THE TRAFFIC SIGNAL MODIFICATION PLANS, SHEETS 25–30.

PACIFIC AVENUE

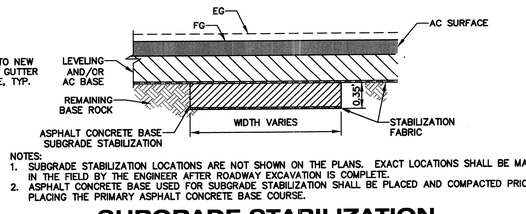
SCALE: 1" = 40'



ROADWAY TYPICAL SECTION

PACIFIC AVE. STA: 0+53 TO 36+92

NTS



NOTES:
1. SUBGRADE STABILIZATION LOCATIONS ARE NOT SHOWN ON THE PLANS. EXACT LOCATIONS SHALL BE MARKED IN THE FIELD BY THE ENGINEER AFTER ROADWAY EXCAVATION IS COMPLETE.
2. ASPHALT CONCRETE BASE USED FOR SUBGRADE STABILIZATION SHALL BE PLACED AND COMPACTED PRIOR TO PLACING THE PRIMARY ASPHALT CONCRETE BASE COURSE.

SUBGRADE STABILIZATION

ROADWAY RECONSTRUCTION AREA

NTS

REGISTERED PROFESSIONAL ENGINEER DENNIS DANIEL SMITH No. 44511 6/17/20 CIVIL STATE OF CALIFORNIA

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				Design/Const		
				Survey		
				TPW Field Svc's		
				Utilities Op's		
				Traffic		
				Storm Water		
				Materials Lab		

NO SCALE
DWN BY: JM
DATE: JUNE 17, 2020
CHK BY: DDD

APPROVED: *Deputy Director – Engineering*
By LORI URBANEK
Date 7/3/2020

CITY OF SANTA ROSA
PACIFIC AVE RECONSTRUCTION
HUMBOLDT ST TO MONTECITO AVE

SIGNING, STRIPING, LIGHTING AND PAVING PLAN

CONTRACT NO. C00661
SHEET 24 OF 33
FILE NO. 2019–0056

PACIFIC AVE RECONSTRUCTION– HUMBOLDT ST TO MONTECITO AVE – CITY CONTRACT NO. C00661

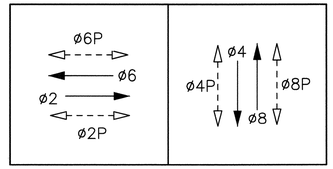
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GENERAL NOTES (THIS SHEET ONLY)

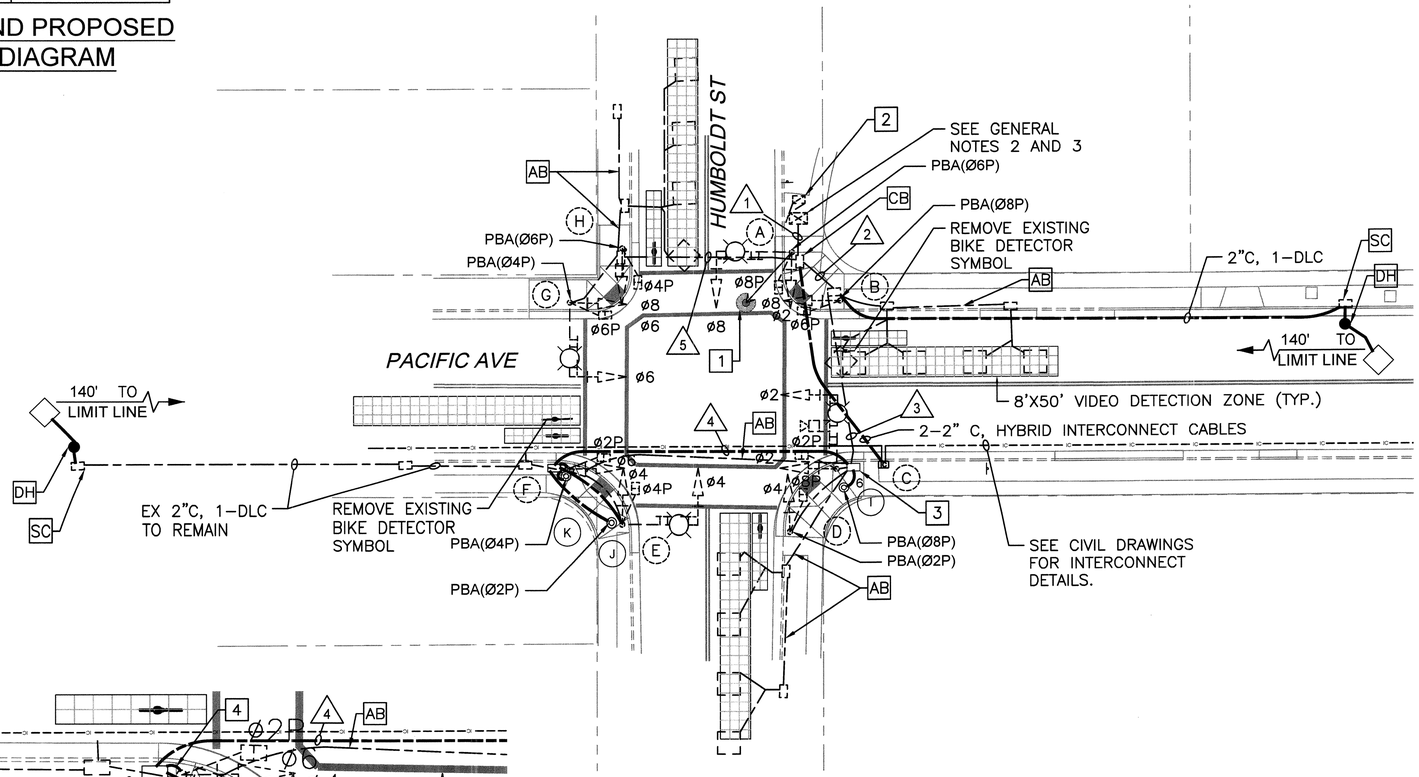
1. TRAFFIC SIGNAL WORK SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS, LATEST EDITION, AND THE 2018 CALTRANS STANDARD PLANS (CSP) AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.
2. REPLACE EXISTING 170 CONTROLLER WITH A NEW MCCAIN 2070LX CONTROLLER WITH OMNI INTERSECTION SOFTWARE (TO INCLUDE 2070–6A MODEM AND 2070–7B SYNC COMM MODULE). EXISTING 332L CABINET TO REMAIN. NEW CONTROLLER MUST BE DELIVERED TO THE CITY PUBLIC WORKS ELECTRICAL SECTION TEN (10) WORKING DAYS PRIOR TO CONTRACTOR'S SCHEDULED INSTALLATION DATE. CONTACT SIGNAL MAINTENANCE SUPERVISOR AT 707.543.3888 TO SCHEDULE.
3. EXISTING 1–EDI–2010 ECLIP CONFLICT MONITOR UNIT TO REMAIN. EXTEND HYBRID INTERCONNECT CABLES INTO CONTROLLER CABINET AND COIL 30 FEET OF EACH CABLE IN THE BOTTOM. CABLE TO BE TERMINATED BY CITY STAFF. REMOVE AND DISPOSE OF EXISTING SIC.
4. VIDEO DETECTION SHALL CONSIST OF A GRIDSMART CAMERA DETECTION SYSTEM. CONTRACTOR SHALL COMPLY WITH VENDOR GUIDELINES FOR INSTALLATION OF ALL COMPONENTS. CONTRACTOR SHALL HAVE A VENDOR REPRESENTATIVE PRESENT AT TURN–ON.
5. ADVANCED LOOPS SHALL BE TYPE B WITH DETECTOR HANDHOLES PER CSP ES–5D
6. GRIDSMART DETECTION SYSTEM TO INCLUDE:
   - 90°–58" MOUNTING ARM POLE TO BE MOUNTED ON THE LUMINAIRE ARM 12 TO 24 INCHES BEHIND THE LUMINARE FIXTURE.
   - TRAFFIC HARDWARE AND DESIGN TO BE CAN–BRAC CLAMP CCL–OOOV
7. REPLACE EXISTING INDUCTIVE FIXTURES WITH LEOTEK GREEN COBRA J–SERIES MODEL #GCM1–60J–MV–30K–3R–GY–125–PCR7–FOC–WL–RWG
8. SEE CIVIL SHEETS FOR SIGNAL INTERCONNECT DETAILS.

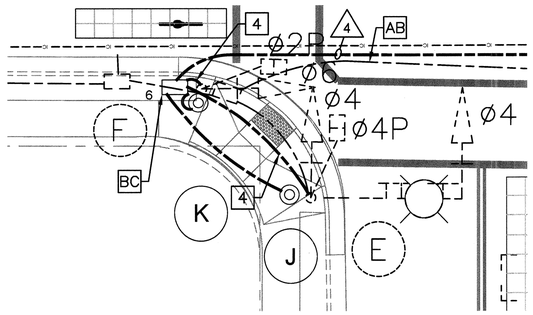
CONSTRUCTION NOTES (THIS SHEET ONLY)

1. EXISTING CAMERA AND CABLES TO BE REMOVED AND RETURNED TO THE CITY CORP YARD. INSTALL NEW GRIDSMART CAMERA ON LUMINAIRE MAST ARM. SEE GENERAL NOTES 4 AND 6.
2. EXISTING TYPE 3–AF SERVICE ENCLOSURE TO REMAIN
3. REPLACE EXISTING NO. 5 PULL BOX WITH NO. 6 PULL BOX
4. UNCOVER EXISTING CONDUIT STUB. CONNECT EXISTING AND NEW CONDUIT STUBS AND EXTEND TO NEW PULL BOX.



EXISTING AND PROPOSED PHASE DIAGRAM





SW CORNER DETAIL
NOT TO SCALE

LEGEND

- OPTICOM 721 DETECTOR
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN
- DH INSTALL DETECTOR HANDHOLE
- SC SPLICE NEW TO EXISTING CONDUCTORS
- GRIDSMART VIDEO CAMERA
- VIDEO DETECTION ZONE
- MAST ARM SIGN
- MAST ARM STREET NAME SIGN PER CITY STANDARD 703B

UNDERGROUND SERVICE ALERT
DIAL TOLL FREE
1–800–227–2600
OR 811
AT LEAST TWO WORKING DAYS BEFORE DIGGING

N

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

REGISTERED PROFESSIONAL ENGINEER STEVEN M. FITZ-MINN C036435 CIVIL STATE OF CALIFORNIA
6/15/2020

W-Trans

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: APRIL 30, 2020
CHK BY: SF
SCALE: 1"=20'
DWN BY: KR
APPROVED: Deputy Director – Engineering
By LORI URBANEK Date 7/9/2020

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION.
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/HUMBOLDT ST
TRAFFIC SIGNAL MODIFICATION PLAN

CONTRACT NO. C00661
SHEET 25 OF 33
FILE NO. 2019–XXXX

PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5
NO. 14	ø2	3	3	3		
	ø4	3	3	3	3	
	ø6	6	3	3	3	3
	ø8	6	3			3
	ø2P	2	2	2	2	
	ø4P	4	2	2	2	2
	ø6P	4	2			2
	ø8P	2	2	2		
	PBA(ø2P)	1	1	1	1	
	PBA(ø4P)	2	1	1	1	1
	PBA(ø6P)	2	1			1
	PBA(ø8P)	1	1	1		
	PBA COMMON	6	4	3	2	2
	SPARES	6	3	3	3	3
	TOTAL No. 14	48	31	24	17	17
NO. 10	LIGHTING		2	2	2	2
	TOTAL No.10		2	2	2	2
NO. 8	SIGNAL NEUTRAL	2	1	1	1	1
	TOTAL No. 8	2	1	1	1	1
DLC	ø2	1	1	1	1	
	ø6	1	1			
	TOTAL DLC	2	2	1	1	
GRID SMART CABLE	VIDEO	1				
	TOTAL CABLE	1				
SIC	HYBRID INTERCONNECT CABLE	2				
CONDUIT SIZE (INCHES)		3"	3"	3"	3"	3"
CONDUIT FILL (PERCENT)		21	12	9	7	6

ALL CONDUCTORS AND CABLES ARE NEW, EXCEPT SERVICE CONDUCTORS.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA	LMA	VEHICLE SIGNAL MAST ARM MTG	MAST ARM ø	POLE MTG	POLE ø	PED SIGNAL ø	PED SIGNAL MTG	PBA ø	PBA ARROW	LED LUMINAIRE	SPECIAL REQUIREMENTS
(A)	17-3-80	20'	15'	MAS	ø8	SV-1-T	ø8	ø8P	SP-1-T	ø6P	LEFT	85W	PEU, R3-4 SIGN, G7 "Pacific Ave" REPLACE EXISTING CAMERA
(B)	TYPE 1A	–	–	–	–	TV-1-T	ø2	ø6P	SP-1-T	ø8P	RIGHT	–	
(C)	17-3-80	20'	15'	MAS	ø2	SV-1-T	ø2	ø2P	SP-1-T	ø8P	LEFT	85W	PEU, R3-4 SIGN, G7 "Humboldt St" REMOVE PBA, CAP HOLES
(D)	TYPE 1A	–	–	–	–	TV-1-T	ø4	ø8P	SP-1-T	ø2P	RIGHT	–	
(E)	17-3-80	20'	15'	MAS	ø4	SV-1-T	ø4	ø4P	SP-1-T	ø2P	LEFT	85W	PEU, R3-4 SIGN, G7 "Pacific Ave" REMOVE PBA, CAP HOLES
(F)	TYPE 1A	–	–	–	–	TV-1-T	ø6	ø2P	SP-1-T	ø4P	RIGHT	–	REMOVE PBA, CAP HOLES
(G)	17-3-80	20'	15'	MAS	ø6	SV-1-T	ø6	ø6P	SP-1-T	ø4P	LEFT	85W	PEU, R3-4 SIGN, G7 "Humboldt St"
(H)	TYPE 1A	–	–	–	–	TV-1-T	ø8	ø4P	SP-1-T	ø6P	RIGHT	–	
(I)	PBA POST	–	–	–	–	–	–	–	–	ø8P	LEFT	–	NEW PBA, POST, AND FOUNDATION
(J)	PBA POST	–	–	–	–	–	–	–	–	ø2P	LEFT	–	NEW PBA, POST, AND FOUNDATION
(K)	PBA POST	–	–	–	–	–	–	–	–	ø4P	RIGHT	–	NEW PBA, POST, AND FOUNDATION

HOLE REPAIR NOTES:

1. FOR HOLES ½" DIAMETER OR LESS, APPLY SILICONE CAULK TO THREADS OF STAINLESS STEEL BOLT MATCHING HOLE SIZE AND THREADS AND FLANGE. TIGHTEN SS BOLT UNTIL FLANGE IS TIGHT AGAINST STANDARD.

2. FOR HOLES 1½" DIAMETER, REPAIR HOLES WITH HOT DIPPED GALVANIZED VENT HOLD PLUG (SEE http://www.thesteelsupplyco.com/galvanized-vent-hole-plug-1-1/2-zinc, OR APPROVED EQUAL). INSTALL PER VENDOR RECOMMENDATIONS. COAT WITH COLD GALVANIZED PATCH AFTER INSTALLATION.

ABBREVIATIONS LIST:

AWG – AMERICAN WIRE GAUGE
DLC – LOOP DETECTOR LEAD-IN CABLE
EV – EMERGENCY VEHICLE
LMA – LUMINAIRE MAST ARM
MAS – MAST ARM MOUNTING SIDE ATTACHMENT
MTG – MOUNTING
PBA – PUSH BUTTON ASSEMBLY
PEU – PHOTOELECTRIC UNIT
SIC – SIGNAL INTERCONNECT CABLE
SMA – SIGNAL MAST ARM

REGISTERED PROFESSIONAL ENGINEER STEVEN M. FITZSIMONS C036435 CIVIL STATE OF CALIFORNIA 6/15/2020

W-Trans

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: APRIL 30, 2020
CHK BY: SF
SCALE: 1"=20'
DWN BY: KR
APPROVED: Deputy Director – Engineering
By LORI URBANEK Date 7/3/2020

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/HUMBOLDT ST
POLE AND CONDUCTOR SCHEDULE

CONTRACT NO.
C00661

SHEET 26 OF 33

FILE NO. 2019-XXXX

PACIFIC AVENUE RECONSTRUCTION- HUMBOLDT STREET TO MONTECITO AVENUE- CITY CONTRACT NO. CXXXXX

GENERAL NOTES (THIS SHEET ONLY)

1. TRAFFIC SIGNAL WORK SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS, LATEST EDITION, AND THE 2018 CALTRANS STANDARD PLANS (CSP) AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.
2. EXTEND HYBRID INTERCONNECT CABLES INTO CONTROLLER CABINET AND COIL 30 FEET OF EACH CABLE IN THE BOTTOM. CABLE TO BE TERMINATED BY CITY STAFF. REMOVE AND DISPOSE OF EXISTING SIC.
3. VIDEO DETECTION SHALL CONSIST OF A GRIDSMART CAMERA DETECTION SYSTEM WITH TYPE B LOOP DETECTORS FOR ADVANCE DETECTION. CONTRACTOR SHALL COMPLY WITH VENDOR GUIDELINES FOR INSTALLATION OF ALL COMPONENTS. CONTRACTOR SHALL HAVE A VENDOR REPRESENTATIVE PRESENT AT TURN–ON.
4. ADVANCE LOOPS SHALL BE TYPE B WITH DETECTOR HANDHOLES PER CSP ES–5D
5. GRIDSMART DETECTION SYSTEM TO INCLUDE:
   - 90"–58" MOUNTING ARM POLE TO BE MOUNTED ON THE LUMINAIRE ARM 12 TO 24 INCHES BEHIND THE LUMINARE FIXTURE.
   - TRAFFIC HARDWARE + DESIGN TO BE CAN–BRAC CLAMP CCL–OOOV
6. REPLACE EXISTING INDUCTIVE FIXTURES WITH LEOTEK GREEN COBRA J–SERIES MODEL #GCM1–60J–MV–30K–3R–GY–125–PCR7–FOC–WL–RWG
7. SEE CIVIL SHEETS FOR SIGNAL INTERCONNECT DETAILS.

CONSTRUCTION NOTES (THIS SHEET ONLY)

1 INSTALL NEW GRIDSMART CAMERA ON THE LUMINAIRE MAST ARM. SEE GENERAL NOTE 4.

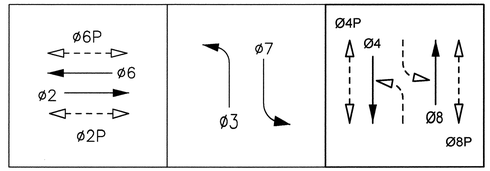
2 EXISTING TYPE 3–AF SERVICE ENCLOSURE TO REMAIN

3 REPLACE EXISTING NO. 5 PULL BOX WITH NO. 6 PULL BOX

4 REMOVE AND SALVAGE VIDEO DETECTION CAMERA AND MOUNTING. REMOVE AND DISPOSE OF EXISTING VIDEO CABLES. CAP CONDUCTOR HOLE PER NOTES ON SHEET 33.

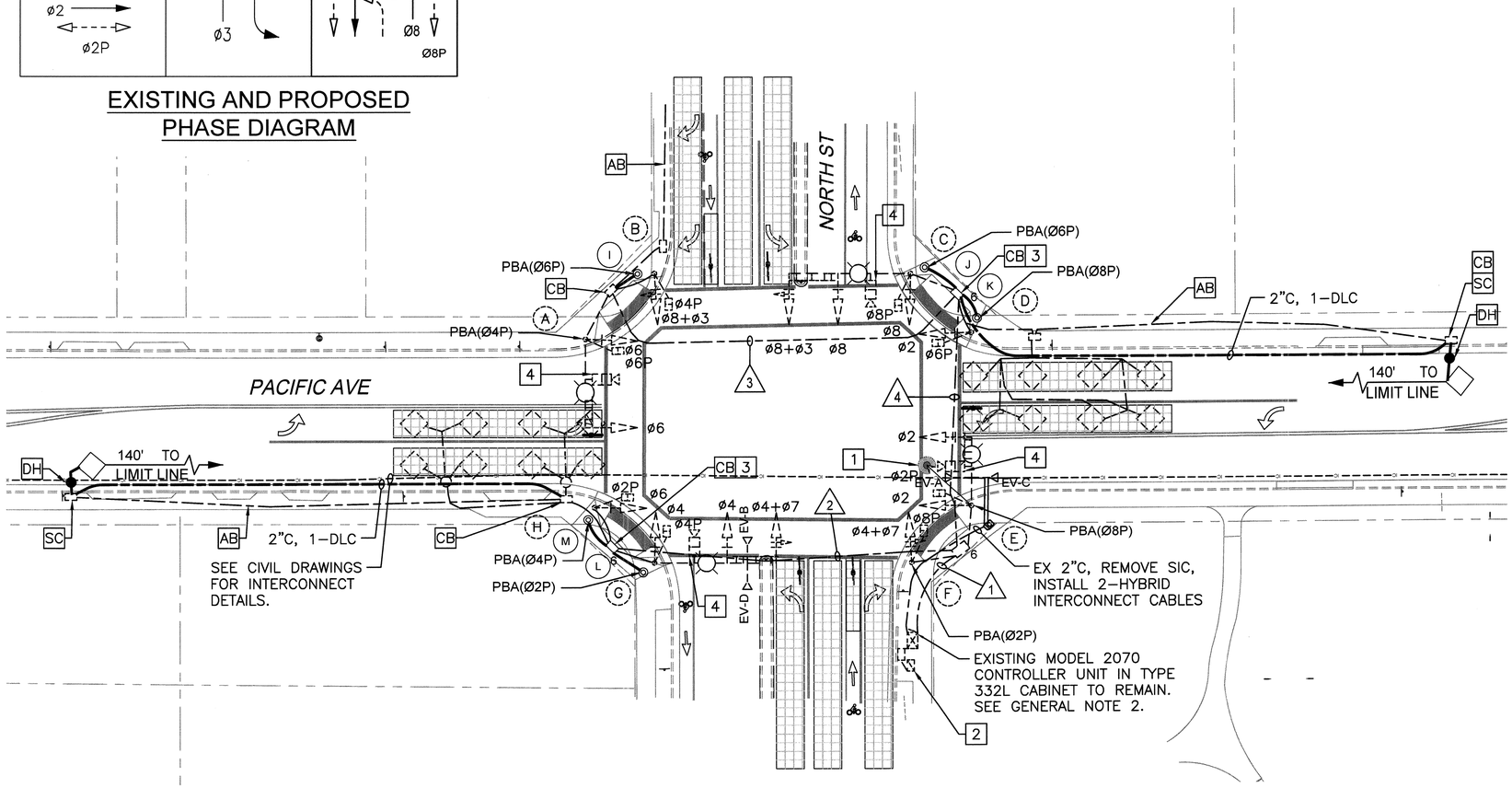
LEGEND

- OPTICOM 721 DETECTOR
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- DH INSTALL DETECTOR HANDHOLE
- SC SPLICE NEW TO EXISTING CONDUCTORS
- GRIDSMART VIDEO CAMERA
- VIDEO DETECTION ZONE
- MAST ARM SIGN
- MAST ARM STREET NAME SIGN PER CITY STANDARD 703B



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

EXISTING AND PROPOSED PHASE DIAGRAM



UNDERGROUND SERVICE ALERT
DIAL TOLL FREE 1–800–227–2600 OR 811 AT LEAST TWO WORKING DAYS BEFORE DIGGING

N

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

REGISTERED PROFESSIONAL ENGINEER STEVEN W. FITZGERALD C036435 CIVIL STATE OF CALIFORNIA
6/15/2020

W-Trans

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CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION–
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/NORTH ST
TRAFFIC SIGNAL MODIFICATION PLAN

CONTRACT NO. C00661
SHEET 27 OF 33
FILE NO. 2019–XXXX

PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4
NO. 14	ø2	3			3
	ø3	2		2	2
	ø4	3	3		
	ø6	6	3	3	3
	ø7	2	2		
	ø8	3		3	3
	ø2P	2	2		
	ø4P	2		2	2
	ø6P	2		2	2
	ø8P	2			2
	PBA(ø2P)	1	1		
	PBA(ø4P)	2	1	1	1
	PBA(ø6P)	1		1	1
	PBA(ø8P)	1			1
	PBA COMMON	5	2	2	3
	SPARES	6	3	3	3
	TOTAL No. 14	43	17	19	26
NO. 10	LIGHTING		2	2	2
	TOTAL No.10		2	2	2
NO. 8	SIGNAL NEUTRAL	2	1	1	1
	TOTAL No. 8	2	1	1	1
DLC	ø2	1	1		
	ø6	1			1
	TOTAL DLC	2	1		1
GRID SMART CABLE	VIDEO	1			
	TOTAL CABLE	1			
OPTICOM CABLE	CHANNEL A/C	1			
	CHANNEL B/D	1	1		
	TOTAL EV CABLES	2	1		
CONDUIT SIZE (INCHES)		3"	3"	3"	3"
CONDUIT FILL (PERCENT)		19	9	7	10

ALL CONDUCTORS AND CABLES ARE NEW, EXCEPT SERVICE CONDUCTORS.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA	LMA	VEHICLE SIGNAL MAST ARM MTG	MAST ARM ø	POLE MTG	POLE ø	PED SIGNAL ø	PED SIGNAL MTG	PBA ø	PBA ARROW	LED LUMINAIRE	SPECIAL REQUIREMENTS
(A)	19-4-70	25'	15'	MAS	ø6	SV-1-T	ø6	ø6P	SP-1-T	ø4P	LEFT	85W	PEU, R3-4 SIGN, G7 "North St"
(B)	TYPE 1A	–	–	–	–	TV-1-T	ø8+ø3	ø4P	SP-1-T	–	–	–	REMOVE PBA, CAP HOLES
(C)	24-4-70	35'	15'	MAS MAS	ø8+ø3 ø8	SV-1-T	ø8	ø8P	SP-1-T	–	–	85W	PEU, R3-4 AND R10-12 SIGNS, G7 "Pacific Ave", REMOVE PBA, CAP HOLES
(D)	TYPE 1A	–	–	–	–	TV-1-T	ø2	ø6P	SP-1-T	–	–	–	REMOVE PBA, CAP HOLES
(E)	19-4-70	25'	15'	MAS	ø2	SV-1-T	ø2	ø2P	SP-1-T	ø8P	LEFT	85W	PEU, R3-4 SIGN, G7 "North St" INSTALL GRIDSMART CAMERA
(F)	TYPE 1A	–	–	–	–	TV-1-T	ø4+ø7	ø8P	SP-1-T	ø2P	RIGHT	–	
(G)	24-4-70	35'	15'	MAS MAS	ø4+ø7 ø4	SV-1-T	ø4	ø4P	SP-1-T	–	–	85W	PEU, R3-4 AND R10-12 SIGNS, G7 "Pacific Ave", REMOVE PBA, CAP HOLES
(H)	TYPE 1A	–	–	–	–	TV-1-T	ø6	ø2P	SP-1-T	–	–	–	REMOVE PBA, CAP HOLES
(I)	PBA POST	–	–	–	–	–	–	–	–	ø6P	RIGHT	–	NEW PBA, POST, AND FOUNDATION
(J)	PBA POST	–	–	–	–	–	–	–	–	ø6P	LEFT	–	NEW PBA, POST, AND FOUNDATION
(K)	PBA POST	–	–	–	–	–	–	–	–	ø8P	RIGHT	–	NEW PBA, POST, AND FOUNDATION
(L)	PBA POST	–	–	–	–	–	–	–	–	ø2P	LEFT	–	NEW PBA, POST, AND FOUNDATION
(M)	PBA POST	–	–	–	–	–	–	–	–	ø4P	RIGHT	–	NEW PBA, POST, AND FOUNDATION

HOLE REPAIR NOTES:

1. FOR HOLES ½" DIAMETER OR LESS, APPLY SILICONE CAULK TO THREADS OF STAINLESS STEEL BOLT MATCHING HOLE SIZE AND THREADS AND FLANGE. TIGHTEN SS BOLT UNTIL FLANGE IS TIGHT AGAINST STANDARD.

2. FOR HOLES 1½" DIAMETER, REPAIR HOLES WITH HOT DIPPED GALVANIZED VENT HOLD PLUG (SEE http://www.thesteelsupplyco.com/galvanized-vent-hole-plug-1-1/2-zinc, OR APPROVED EQUAL). INSTALL PER VENDOR RECOMMENDATIONS. COAT WITH COLD GALVANIZED PATCH AFTER INSTALLATION.

ABBREVIATIONS LIST:

AWG – AMERICAN WIRE GAUGE
DLC – LOOP DETECTOR LEAD-IN CABLE
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SIC – SIGNAL INTERCONNECT CABLE
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REGISTERED PROFESSIONAL ENGINEER STEVEN M. FITZSIMMONS C036435 CIVIL STATE OF CALIFORNIA 6/15/2020

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CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/NORTH ST
POLE AND CONDUCTOR SCHEDULE

CONTRACT NO. C00661
SHEET 28 OF 33
FILE NO. 2019-XXXX

PACIFIC AVENUE RECONSTRUCTION- HUMBOLDT STREET TO MONTECITO AVENUE- CITY CONTRACT NO. CXXXXX

GENERAL NOTES (THIS SHEET ONLY)

1. TRAFFIC SIGNAL WORK SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS, LATEST EDITION, AND THE 2018 CALTRANS STANDARD PLANS (CSP) AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.

2. REPLACE EXISTING SAFETRAN 170 CONTROLLER WITH MCCAIN 2070LX CONTROLLER WITH OMNI INTERSECTION SOFTWARE. EXISTING 332L CABINET TO REMAIN. NEW CONTROLLER MUST BE DELIVERED TO THE CITY PUBLIC WORKS ELECTRICAL SECTION TEN (10) WORKING DAYS PRIOR TO CONTRACTOR'S SCHEDULED INSTALLATION DATE. CONTACT SIGNAL MAINTENANCE SUPERVISOR AT 707.543.3888 TO SCHEDULE.

3. REPLACE EXISTING 210 CONFLICT MONITOR WITH 1–EDI–2010 ECLIP CONFLICT MONITOR UNIT (CMU). EXTEND HYBRID INTERCONNECT CABLES INTO CONTROLLER CABINET AND COIL 30 FEET OF EACH CABLE IN THE BOTTOM. CABLE TO BE TERMINATED BY CITY STAFF. REMOVE AND DISPOSE OF EXISTING SIC.

4. VIDEO DETECTION SHALL CONSIST OF A GRIDSMART CAMERA DETECTION SYSTEM WITH TYPE B LOOP DETECTORS FOR ADVANCE DETECTION. CONTRACTOR SHALL COMPLY WITH VENDOR GUIDELINES FOR INSTALLATION OF ALL COMPONENTS. CONTRACTOR SHALL HAVE A VENDOR REPRESENTATIVE PRESENT AT TURN–ON.

5. ADVANCE LOOPS SHALL BE TYPE B WITH DETECTOR HANDHOLES PER CSP ES–5D.

6. GRIDSMART DETECTION SYSTEM TO INCLUDE:
   - 90"–58" MOUNTING ARM POLE TO BE MOUNTED ON THE LUMINAIRE ARM 12 TO 24 INCHES BEHIND THE LUMINARE FIXTURE.
   - TRAFFIC HARDWARE + DESIGN TO BE CAN–BRAC CLAMP CCL–OOOV

7. REPLACE EXISTING INDUCTIVE FIXTURES WITH LEOTEK GREEN COBRA J–SERIES MODEL #GCM1–60J–MV–30K–3R–GY–125–PCR7–FOC–WL–RWG

8. SEE CIVIL SHEETS FOR SIGNAL INTERCONNECT DETAILS.

CONSTRUCTION NOTES (THIS SHEET ONLY)

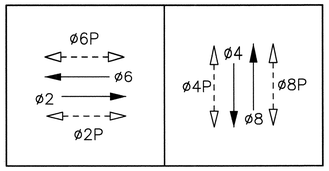
1 INSTALL NEW GRIDSMART CAMERA TO BE LOCATED ON THE LUMINAIRE MAST ARM. SEE GENERAL NOTE 3.

2 EXISTING TYPE 3–AF SERVICE ENCLOSURE TO REMAIN

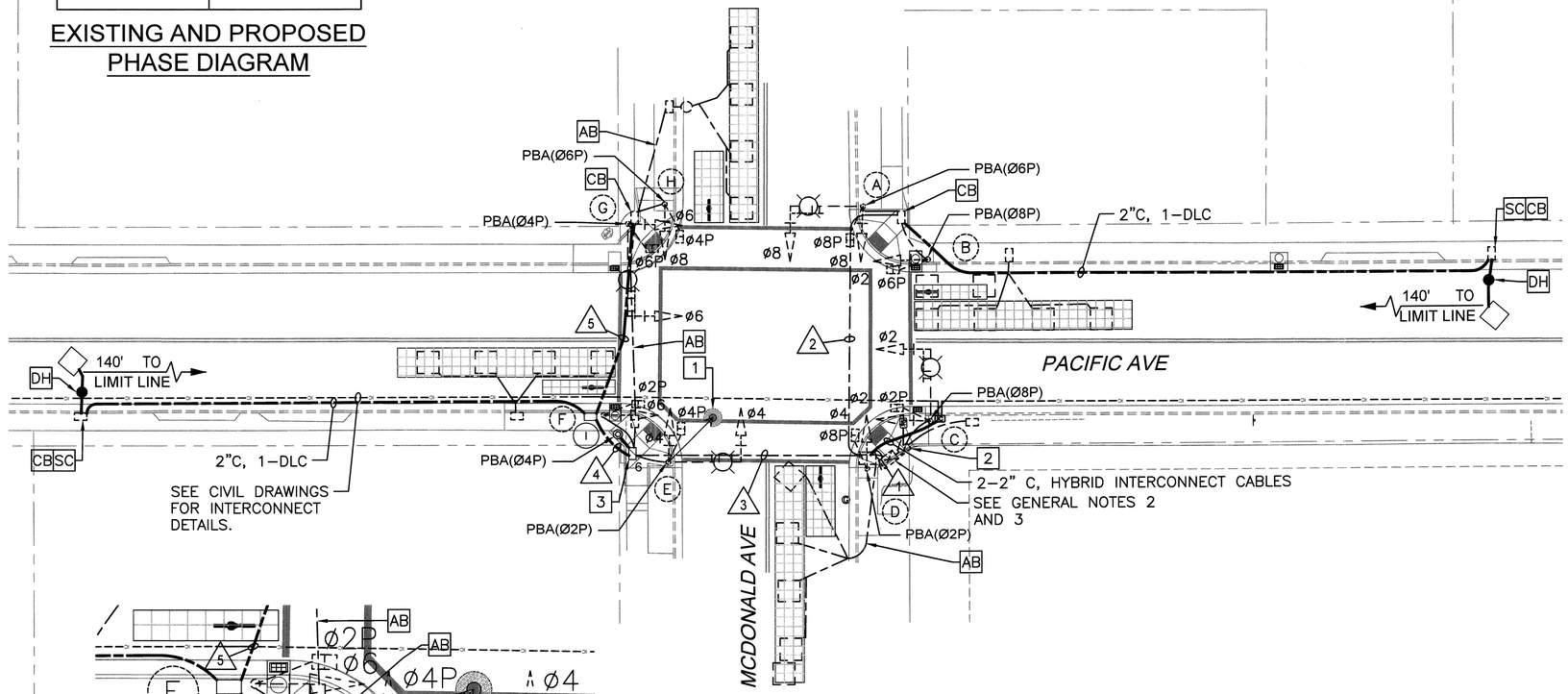
3 REPLACE EXISTING NO. 5 PULL BOX WITH NO. 6 PULL BOX

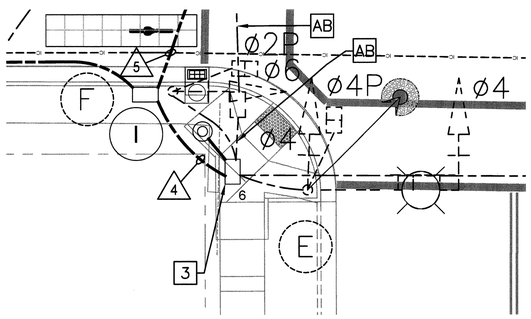
LEGEND

- OPTICOM 721 DETECTOR
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- DH INSTALL DETECTOR HANDHOLE
- SC SPLICE NEW TO EXISTING CONDUCTORS
- GRIDSMART VIDEO CAMERA
- VIDEO DETECTION ZONE
- MAST ARM SIGN
- MAST ARM STREET NAME SIGN PER CITY STANDARD 703B



EXISTING AND PROPOSED PHASE DIAGRAM





SW CORNER DETAIL
NOT TO SCALE

UNDERGROUND SERVICE ALERT
DIAL TOLL FREE 1–800–227–2600 OR 811
AT LEAST TWO WORKING DAYS BEFORE DIGGING

N

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

REGISTERED PROFESSIONAL ENGINEER STEVEN M. FITZSIMMONS C036435 CIVIL STATE OF CALIFORNIA
6/15/2020

W-Trans

City of Santa Rosa

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CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/MCDONALD AVE
TRAFFIC SIGNAL MODIFICATION PLAN

CONTRACT NO. C00661
SHEET 29 OF 33
FILE NO. 2019–XXXX

PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5
NO. 14	ø2	3	3			
	ø4	3		3		
	ø6	3		3	3	3
	ø8	6	3	3	3	3
	ø2P	2		2	2	
	ø4P	2		2	2	2
	ø6P	4	2	2	2	2
	ø8P	4	2			
	PBA(ø2P)	1		1		
	PBA(ø4P)	2		2	1	1
	PBA(ø6P)	2	1	1	1	1
	PBA(ø8P)	2	1			
	PBA COMMON	7	2	4	2	2
	SPARES	6	3	3	3	3
	TOTAL No. 14	47	17	26	19	17
NO. 10	LIGHTING		2	2	2	2
	TOTAL No.10		2	2	2	2
NO. 8	SIGNAL NEUTRAL	2	1	1	1	1
	TOTAL No. 8	2	1	1	1	1
DLC	ø2	1		1	1	
	ø6	1	1			
	TOTAL DLC	2	1	1	1	
GRID SMART CABLE	VIDEO	1		1		
	TOTAL CABLE	1		1		
SIC	HYBRID INTERCONNECT CABLE	2				
CONDUIT SIZE (INCHES)		3"	3"	3"	2"	3"
CONDUIT FILL (PERCENT)		20	7	11	17	6

ALL CONDUCTORS AND CABLES ARE NEW, EXCEPT SERVICE CONDUCTORS.

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD TYPE	SMA	LMA	VEHICLE SIGNAL MAST ARM MTG	MAST ARM ø	POLE MTG	POLE ø	PED SIGNAL ø	PED SIGNAL MTG	PBA ø	PBA ARROW	LED* LUMINAIRE	SPECIAL REQUIREMENTS
(A)	17-3-80	20'	12'	MAS	ø8	SV-1-T	ø8	ø8P	SP-1-T	ø6P	LEFT	85W	PEU, R3-4 SIGN, G7 "Pacific Ave"
(B)	TYPE 1A	–	–	–	–	TV-1-T	ø2	ø6P	SP-1-T	ø8P	RIGHT	–	
(C)	17-3-80	20'	12'	MAS	ø2	SV-1-T	ø2	ø2P	SP-1-T	ø8P	LEFT	85W	PEU, R3-4 SIGN, G7 "McDonald Ave" INSTALL GRIDSMART CAMERA
(D)	TYPE 1A	–	–	–	–	TV-1-T	ø4	ø8P	SP-1-T	ø2P	RIGHT	–	
(E)	17-3-80	20'	12'	MAS	ø4	SV-1-T	ø4	ø2P	SP-1	ø2P	LEFT	85W	PEU, R3-4 SIGN, G7 "Pacific Ave"
(F)	TYPE 1A	–	–	–	–	TV-1-T	ø6	ø4P	SP-1	–	–	–	REMOVE PBA, CAP HOLES
(G)	19-3-80	25'	12'	MAS	ø6	SV-1-T	ø6	ø6P	SP-1-T	ø4P	LEFT	85W	PEU, R3-4 SIGN, G7 "McDonald Ave"
(H)	TYPE 1A	–	–	–	–	TV-1-T	ø8	ø4P	SP-1-T	ø6P	RIGHT	–	INSTALL PBA EXTENSION TO POSITION PBA 6" FROM POLE.
(I)	PBA POST	–	–	–	–	–	–	–	–	ø4P	RIGHT	–	NEW PBA, POST, AND FOUNDATION

* REPLACE EXISTING INDUCTIVE FIXTURE WITH LED

HOLE REPAIR NOTES:

1. FOR HOLES ½" DIAMETER OR LESS, APPLY SILICONE CAULK TO THREADS OF STAINLESS STEEL BOLT MATCHING HOLE SIZE AND THREADS AND FLANGE. TIGHTEN SS BOLT UNTIL FLANGE IS TIGHT AGAINST STANDARD.

2. FOR HOLES 1½" DIAMETER, REPAIR HOLES WITH HOT DIPPED GALVANIZED VENT HOLD PLUG (SEE http://www.thesteelsupplyco.com/galvanized-vent-hole-plug-1-1/2-zinc, OR APPROVED EQUAL). INSTALL PER VENDOR RECOMMENDATIONS. COAT WITH COLD GALVANIZED PATCH AFTER INSTALLATION.

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Date 4/30/2020
By LORI URBANEK

CITY CONTRACT NO. CXXXXX

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

PACIFIC AVE/MCDONALD AVE
POLE AND CONDUCTOR SCHEDULE

CONTRACT NO.
C00661

SHEET 30 OF 33

FILE NO. 2019-XXXX

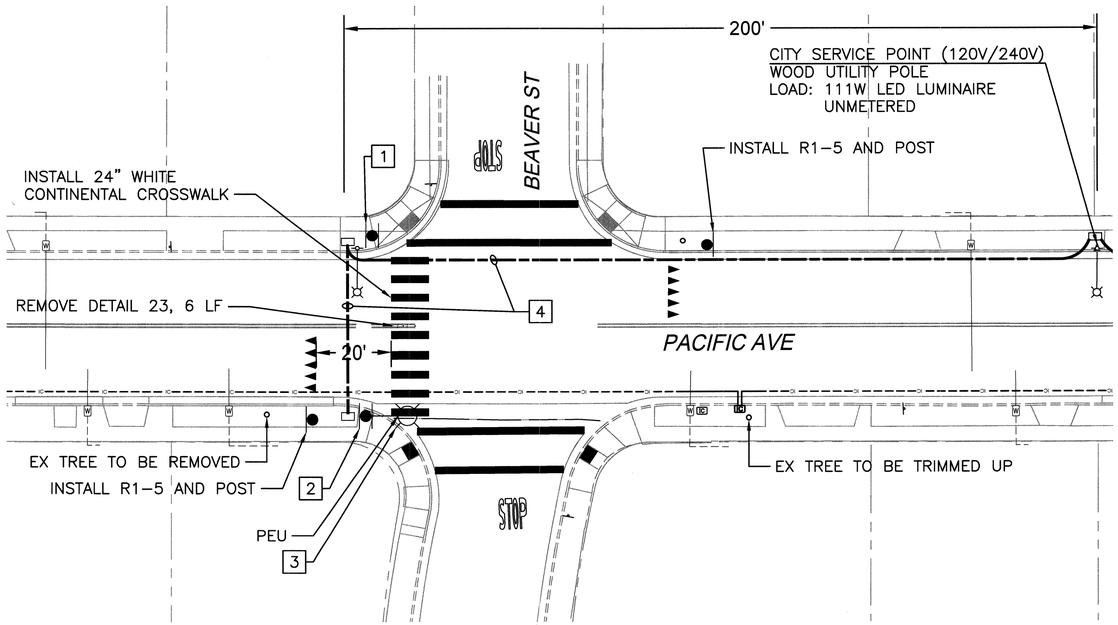
PACIFIC AVENUE RECONSTRUCTION- HUMBOLDT STREET TO MONTECITO AVENUE-

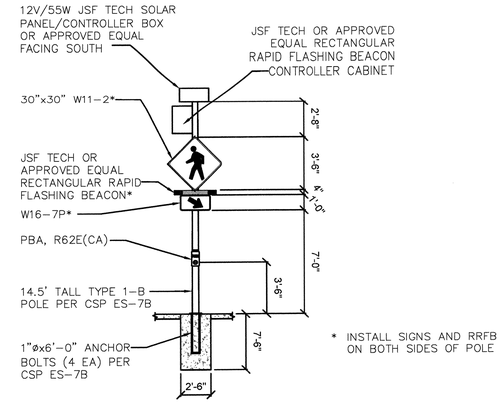
GENERAL NOTES (THIS SHEET ONLY)

1. WORK SHOWN ON THIS SHEET IS ACCURATE FOR RAPID RECTANGULAR FLASHING BEACON (RRFB), LIGHTING, PAVEMENT MARKINGS, AND SIGNING WORK ONLY.
2. ALL WIRING AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS LATEST EDITIONS AND THE 2018 CALIFORNIA STANDARD PLANS AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.
3. CONTRACTOR SHALL CALL U.S.A. AT 811 OR 1–800–642–2444 AND HAVE UTILITIES MARKED AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY WORK.
4. CONTRACTOR SHALL VERIFY STREET LIGHT SERVICE POINT LOCATIONS WITH PG&E PRIOR TO COMMENCING WORK.
5. PULL BOXES SHALL BE NO. 5 PER CITY STANDARD 602 UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL AVOID DAMAGING ALL EXISTING FACILITIES, SHOWN OR NOT SHOWN ON THESE PLANS. DAMAGED FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
7. CONTRACTOR SHALL MARK POLE LOCATIONS AND HAVE THEM VERIFIED BY THE CITY TRAFFIC ENGINEER PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL VERIFY OVERHEAD CLEARANCE WITH UTILITY COMPANIES PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR COMPLETE SOLAR–POWERED RRFB OPERATING SYSTEM.
10. THE PUSH BUTTON SHALL BE THE AUDIBLE TYPE CONFORMING TO CALTRANS ADA REQUIREMENTS, POLARA BULLDOG MODEL BDL3–X OR APPROVED TYPE B EQUAL.
11. RRFB SYSTEM SHALL BE THE JSF TECH RRFB OR APPROVED EQUAL. RRFB SYSTEM SHALL OPERATE ON SOLAR POWER WITH BATTERY.
12. W11–2 AND W16–7P PEDESTRIAN CROSSING SIGNS SHALL BE 30"X30". SIGNS SHALL BE RETROREFLECTIVE AND FLUORESCENT YELLOW GREEN.
13. SIGNS SHALL BE INSTALLED PER CITY STANDARD 701.
14. CONTROLLER SHALL BE JSF TECH OR APPROVED EQUAL AND OPERATE ON SOLAR POWER WITH BATTERY.
15. RRFB SYSTEM SHALL BE ASSIGNED DIFFERENT NETWORK ADDRESSES THAN THE PROPOSED RRFB SYSTEM AT THE INTERSECTION OF PACIFIC AVENUE/KING STREET TO AVOID INTERFERENCE BETWEEN MULTIPLE CROSSWALK LOCATIONS.

PROJECT NOTES (THIS SHEET ONLY)

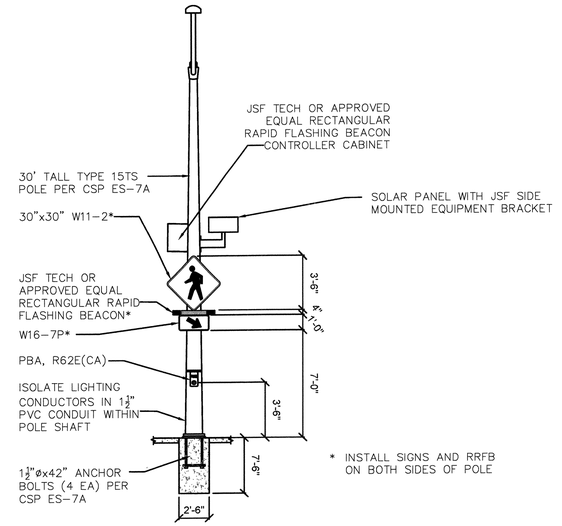
1. INSTALL RAPID RECTANGULAR FLASHING BEACON (RRFB) ASSEMBLY, CONTROLLER AND SOLAR PANEL WITH FLASHING BEACONS AND SIGNS ON BOTH SIDES OF 14.5' TALL TYPE 1–B POLE. INSTALL SINGLE PBA ON SIDE OF POLE FACING CROSSWALK ON PACIFIC AVENUE ONLY. SEE DETAIL A, THIS SHEET. W16–7P ARROWS SHALL POINT TOWARD PACIFIC AVENUE CENTERLINE.
2. INSTALL RRFB ASSEMBLY AND CONTROLLER WITH FLASHING BEACONS AND SIGNS ON BOTH SIDES OF TYPE 15TS POLE. INSTALL SINGLE PBA ON SIDE OF POLE FACING CROSSWALK ON PACIFIC AVENUE ONLY. SEE DETAIL B, THIS SHEET. W16–7P ARROWS SHALL POINT TOWARD PACIFIC AVENUE CENTERLINE.
3. INSTALL TYPE 15TS POLE WITH LEOTEK 111W FIXTURE MODEL # GCM3–60J–MV–30K–3R–GY–160–PCR7–FOC–WL–RWG. HAND DIG FOUNDATION AND ADJUST LOCATION IF NEEDED TO AVOID UTILITY CONFLICTS.
4. INSTALL 3"C, 2#8, 1#8G PER CITY STANDARD 602





DETAIL A: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 1–B

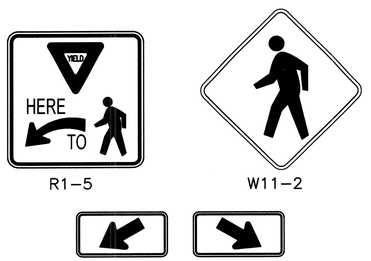
NOT TO SCALE See General Note #9



DETAIL B: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 15TS

NOT TO SCALE See General Note #9

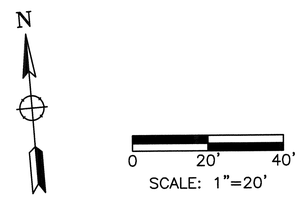
NEW SIGNING QUANTITIES	
SIGN	**QUANTITY**
R1-5	2
W11-2	4
W16-7P(R)	2
W16-7P(L)	2



EXISTING SIGN

PROPOSED DUAL SIGN PER CITY STANDARDS AND STD–701

SIGN LEGEND



REGISTERED PROFESSIONAL ENGINEER STEVEN M. FITZSIMMONS C036435 CIVIL STATE OF CALIFORNIA 6/15/2020

W-Trans

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: APRIL 30, 2020
CHK BY: SF
SCALE: 1"=20'
DWN BY: KR
APPROVED: Deputy Director – Engineering
By LORI URBANEK Date 7/2/2020

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION–
HUMBOLDT STREET TO MONTECITO AVENUE

BEAVER ST RECTANGULAR RAPID FLASHING BEACON (RRFB) DESIGN

CONTRACT NO. C00661
SHEET 31 OF 33
FILE NO. 2019–XXXX

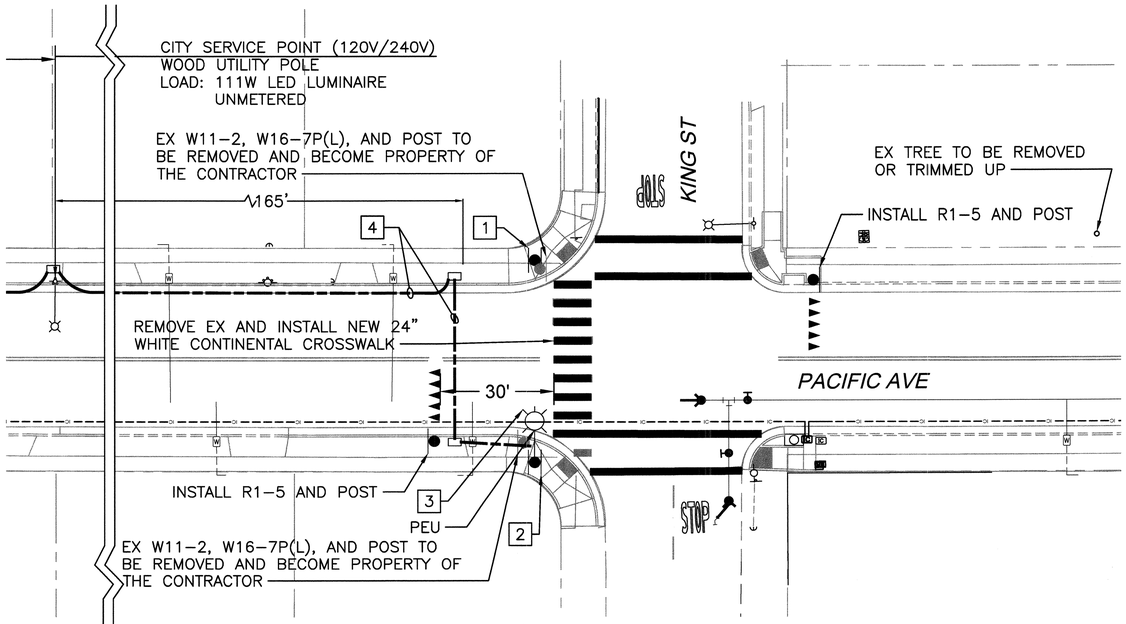
PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX

GENERAL NOTES (THIS SHEET ONLY)

1. WORK SHOWN ON THIS SHEET IS ACCURATE FOR RAPID RECTANGULAR FLASHING BEACON (RRFB), LIGHTING, PAVEMENT MARKINGS, AND SIGNING WORK ONLY.
2. ALL WIRING AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS LATEST EDITIONS AND THE 2018 CALIFORNIA STANDARD PLANS AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.
3. CONTRACTOR SHALL CALL U.S.A. AT 811 OR 1–800–642–2444 AND HAVE UTILITIES MARKED AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY WORK.
4. CONTRACTOR SHALL VERIFY STREET LIGHT SERVICE POINT LOCATIONS WITH PG&E PRIOR TO COMMENCING WORK.
5. PULL BOXES SHALL BE NO. 5 PER CITY STANDARD 602 UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL AVOID DAMAGING ALL EXISTING FACILITIES, SHOWN OR NOT SHOWN ON THESE PLANS. DAMAGED FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
7. CONTRACTOR SHALL MARK POLE LOCATIONS AND HAVE THEM VERIFIED BY THE CITY TRAFFIC ENGINEER PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL VERIFY OVERHEAD CLEARANCE WITH UTILITY COMPANIES PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR COMPLETE SOLAR–POWERED RRFB OPERATING SYSTEM.
10. THE PUSH BUTTON SHALL BE THE AUDIBLE TYPE CONFORMING TO CALTRANS ADA REQUIREMENTS, POLARA BULLDOG MODEL BDL3–X OR APPROVED TYPE B EQUAL.
11. RRFB SYSTEM SHALL BE THE JSF TECH RRFB OR APPROVED EQUAL. RRFB SYSTEM SHALL OPERATE ON SOLAR POWER WITH BATTERY.
12. W11–2 PEDESTRIAN CROSSING SIGNS SHALL BE 30"X30". SIGNS SHALL BE RETROREFLECTIVE AND FLUORESCENT YELLOW GREEN.
13. SIGNS SHALL BE INSTALLED PER CITY STANDARD 701.
14. CONTROLLER SHALL BE JSF TECH OR APPROVED EQUAL AND OPERATE ON SOLAR POWER WITH BATTERY.
15. RRFB SYSTEM SHALL BE ASSIGNED DIFFERENT NETWORK ADDRESSES THAN THE PROPOSED RRFB SYSTEM AT THE INTERSECTION OF PACIFIC AVENUE/BEAVER STREET TO AVOID INTERFERENCE BETWEEN MULTIPLE CROSSWALK LOCATIONS.

PROJECT NOTES (THIS SHEET ONLY)

1. INSTALL RAPID RECTANGULAR FLASHING BEACON (RRFB) ASSEMBLY, CONTROLLER AND SOLAR PANEL WITH FLASHING BEACONS AND SIGNS ON BOTH SIDES OF 14.5' TALL TYPE 1–B POLE. INSTALL SINGLE PBA ON SIDE OF POLE FACING CROSSWALK ON PACIFIC AVENUE ONLY. SEE DETAIL A, THIS SHEET. W16–7P ARROWS SHALL POINT TOWARD PACIFIC AVENUE CENTERLINE.
2. INSTALL RRFB ASSEMBLY AND CONTROLLER WITH FLASHING BEACONS AND SIGNS ON BOTH SIDES OF TYPE 15TS POLE. INSTALL SINGLE PBA ON SIDE OF POLE FACING CROSSWALK ON PACIFIC AVENUE ONLY. SEE DETAIL B, THIS SHEET. W16–7P ARROWS SHALL POINT TOWARD PACIFIC AVENUE CENTERLINE.
3. INSTALL TYPE 15TS POLE WITH LEOTEK 111W FIXTURE MODEL # GCM3–60J–MV–30K–3R–GY–160–PCR7–FOC–WL–RWG. HAND DIG FOUNDATION AND ADJUST LOCATION IF NEEDED TO AVOID UTILITY CONFLICTS.
4. INSTALL 3"C, 2#8, 1#8G PER CITY STANDARD 602



NEW SIGNING QUANTITIES	
SIGN	**QUANTITY**
R1-5	2
W11-2	4
W16-7P(R)	2
W16-7P(L)	2

EXISTING SIGN

PROPOSED DUAL SIGN PER CITY STANDARDS AND STD–701



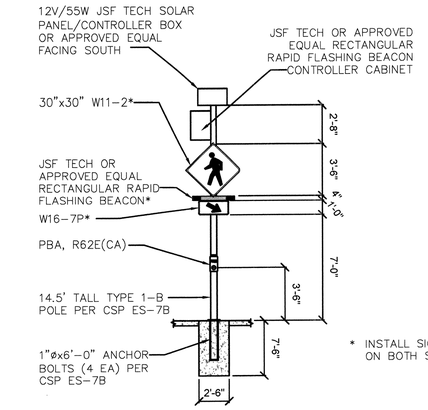
R1–5

W11–2



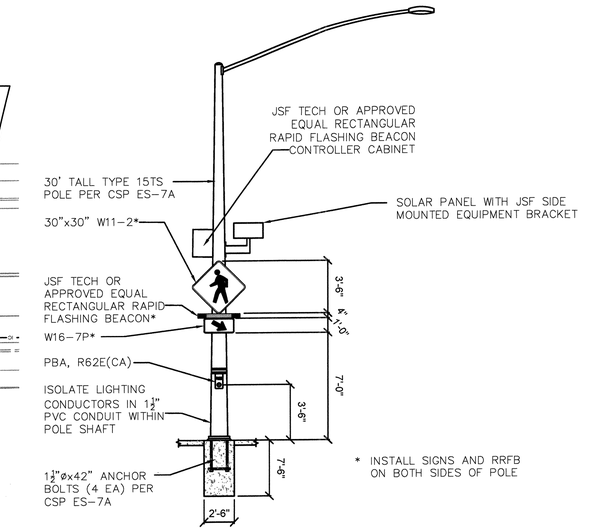
W16–7P (L) W16–7P (R)

SIGN LEGEND



DETAIL A: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 1–B

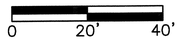
NOT TO SCALE See General Note #9



DETAIL B: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 15TS

NOT TO SCALE See General Note #9





SCALE: 1"=20'

REGISTERED PROFESSIONAL ENGINEER STEVEN W. FITTS MONTES C036435 CIVIL STATE OF CALIFORNIA 6/15/2020

W-Trans

City of Santa Rosa

NO.	DATE	REVISION	BY

DATE: APRIL 30, 2020
CHK BY:SF
DWN BY:KR
SCALE:1"=20'

APPROVED: *Deputy Director – Engineering* Date 7/2/2020

By LORI URBANEK

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

KING ST RECTANGULAR RAPID FLASHING BEACON (RRFB) DESIGN

CONTRACT NO. C00661

SHEET 32 OF 33

FILE NO. 2019–XXXX

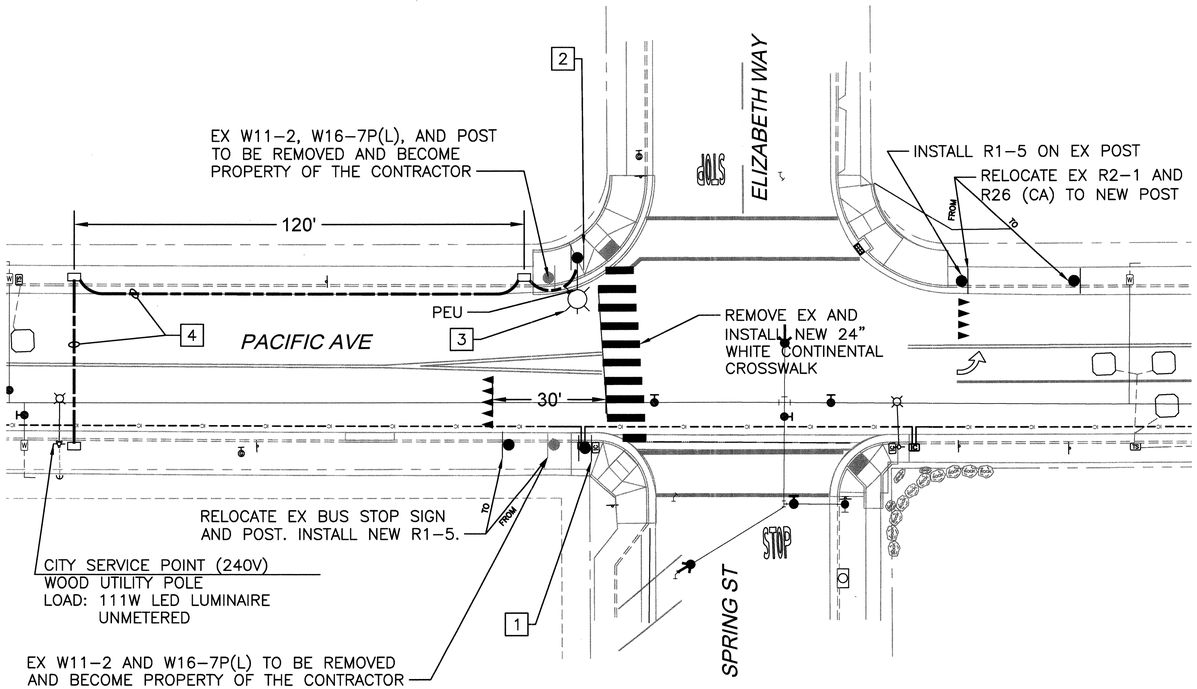
PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX

GENERAL NOTES (THIS SHEET ONLY)

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13. SIGNS SHALL BE INSTALLED PER CITY STANDARD 701.
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PROJECT NOTES (THIS SHEET ONLY)

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4. INSTALL 3"C, 2#8, 1#8G PER CITY STANDARD 602



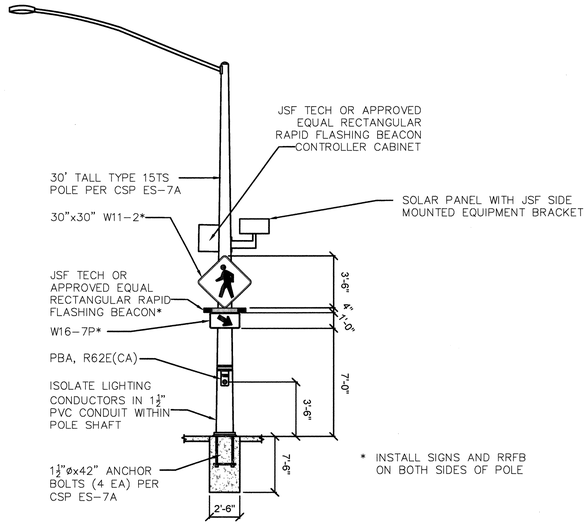


SIGN LEGEND

NEW SIGNING QUANTITIES	
SIGN	**QUANTITY**
R1-5	2
W11-2	4
W16-7P(R)	2
W16-7P(L)	2

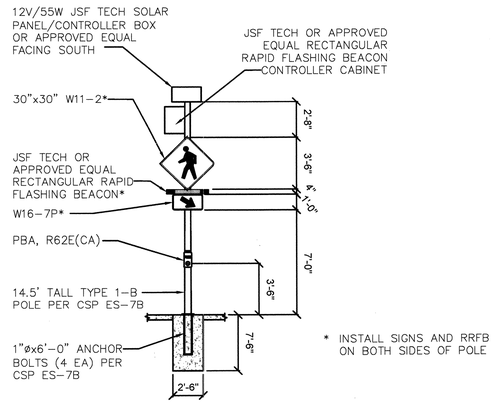
EXISTING SIGN

PROPOSED DUAL SIGN PER CITY STANDARDS AND STD–701



DETAIL B: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 15TS

NOT TO SCALE See General Note #9



DETAIL A: RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH CONTROLLER ON TYPE 1–B

NOT TO SCALE See General Note #9



0 20' 40'

SCALE: 1"=20'

REGISTERED PROFESSIONAL ENGINEER STEFEN W. FITTS C036435 CIVIL STATE OF CALIFORNIA 6/15/2020

W-Trans

City of Santa Rosa

NO.	DATE	REVISION	BY

SCALE: 1"=20' DWN BY: KR DATE: APRIL 30, 2020 CHK BY: SF

APPROVED: *Deputy Director – Engineering*

By LORI URBANEK Date 7/3/2020

CITY OF SANTA ROSA
PACIFIC AVENUE RECONSTRUCTION-
HUMBOLDT STREET TO MONTECITO AVENUE

ELIZABETH WAY-SPRING ST
RRFB DESIGN

CONTRACT NO. C00661

SHEET 33 OF 33

FILE NO. 2019–XXXX

PACIFIC AVENUE RECONSTRUCTION– HUMBOLDT STREET TO MONTECITO AVENUE– CITY CONTRACT NO. CXXXXX