GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE 2010 CALTRANS STANDARD PLAN AND SPECIFICATIONS, LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), CITY OF GARDEN GROVE STANDARD PLANS, ORANGE COUNTY STANDARD PLANS, RESOURCE AND DEVELOPMENT MANAGEMENT DEPARTMENT (RDMD) DESIGN MANUALS, AND THESE PROJECT PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY THE CITY OF GARDEN GROVE WATER DEPARTMENT AND ALL OTHER UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PHASES OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED.
- WATER VALVES SHALL BE ADJUSTED TO GRADE OR RECONSTRUCTED BY THE CONTRACTOR PER CITY STD. PLAN B-752 WITHIN 5 WORKING DAYS OF PAVING THE SURFACE COURSE. SEWER AND STORM DRAIN MANHOLES SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR, WITHIN 10 WORKING DAYS AFTER COMPLETION OF FINAL ASPHALT PAVING. CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES ASSOCIATED WITH THE PROJECT. CONTRACTOR SHALL CONTACT MIKE GRAY AT (714) 719-1284 FOR ANY WATER VALVE OPERATION
- 4. TRAFFIC CONTROL SHALL CONFORM TO THE TRAFFIC ENGINEERING POLICY TE 32, THE PROVISIONS IN SECTION 7–10, "PUBLIC CONVENIENCE AND SAFETY," OF CALTRANS STANDARD SPECIFICATIONS, THE LATEST EDITION MANUAL ON UNIFORM OF TRAFFIC CONTROL DEVICES (MUTCD), THE LATEST EDITIONS OF WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) AND WITH CALTRANS STANDARD PLAN T-11 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTI-LANE CONVENTIONAL HIGHWAYS. NOTES 2 AND 6 ON THE CALTRANS STANDARD PLAN T-11 REGARDING ILLUMINATED ADVANCED WARNING SIGNS AND CONES SHALL NOT APPLY.
- 5. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (1-800-422-4133) TWO WORKING DAYS PRIOR TO DOING ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PROTECT IN-PLACE ALL UNDERGROUND AND OVERHEAD UTILITY LINES AND APPURTENANCES. CONTRACTORS SHALL NOTIFY CITY OF ANY POTENTIAL CONFLICT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. REMOVE ALL USA MARKINGS AFTER CONSTRUCTION.
- 6. CONTRACTOR SHALL MAKE INVENTORY OF, AND PROTECT ALL SURVEY MONUMENTS AND CENTERLINE TIES IN PLACE. CONTRACTOR SHALL TRANSMIT CENTERLINE TIE DOCUMENTS TO THE ORANGE COUNTY SURVEY OFFICE AND THE ENGINEER, TO VERIFY ALL CENTERLINE TIES HAVE BEEN LOCATED PRIOR TO START OF ANY WORK.
- 7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION TWO WORKING DAYS PRIOR TO STARTING WORK AT (714) 741–5179.
- 8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING CONSTRUCTION AMPLE MEANS AND DEVICES WITH WHICH TO PROMPTLY REMOVE AND PROPERLY DISPOSE OF ALL WATER FROM ANY SOURCE ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK.
- 9. PROTECT-IN-PLACE ALL EXISTING IMPROVEMENTS, STRUCTURES, INFRASTRUCTURE, UTILITIES, AND ALL OTHER ITEMS NOT BEING CALLED OUT TO BE REMOVED OR RELOCATED, OR NOT PART OF SCOPE. ALL EXISTING IMPROVEMENTS THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION INCLUDING STRIPING, C&G, DRIVEWAYS, UTILITIES, ETC. SHALL BE REPLACED IN KIND, OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 10. REMOVE ALL USA MARKINGS FROM PUBLIC RIGHT-OF-WAY AFTER CONSTRUCTION IS COMPLETE.
- 11. CONTRACTOR SHALL HAVE SUFFICIENT MATERIALS ON HAND AT ALL TIMES TO EXPEDITE ANY EMERGENCY REPAIR.
- 12. ALL MEASUREMENTS ARE HORIZONTAL, CONTRACTOR IS RESPONSIBLE FOR CONVERTING HORIZONTAL DISTANCES TO SLOPED DISTANCES.
- 13. PAVEMENT LEGENDS AND CROSSWALKS SHALL BE THERMOPLASTIC.
- 14. IF CULTURAL MATERIALS OR RESOURCES ARE DISCOVERED DURING THE PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY OF THE DISCOVERY SHALL IMMEDIATELY CEASE.

<u>CONTACT</u>

SAMUEL KIM

SAMUEL KIM

CECILIA CAMPOS

YVETTE MARTINEZ-GARAFANO

DON AMADOR

BILL BATORY

RUDY DAVILA

PHILLIP OLIVAS

KEITH UNDERWOOD

CURTIS VASQUEZ

DAI VU

UTILITY CONTACT INFORMATION

<u>UTILITY</u> GARDEN GROVE SEWER DIVISION GARDEN GROVE WATER DIVISION GARDEN GROVE TRAFFIC DIVISION SOUTHERN CALIFORNIA EDISON CO. THE GAS CO. AT&T 0.C.T.A. SPECTRUM COUNTY SANITATION DISTRICT OF O.C. FRONTIER / VERIZON

CAUTION: THE ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR

ANY UNAUTHORIZED CHANGES TO THESE PLANS. ALL CHANGES MUST BE APPROVED BY THE PLAN PREPARER.

REDFLEX TRAFFIC SYSTEMS INC.

Underground Service Alert



CALL 811 TWO WORKING DAYS BEFORE YOU DIG. **BENCHMARK:** VERTICAL DATUM:ORANGE COUNTY; BENCH MARK: GG-130 ELEVATION: 85.727

DESCRIPTION: FOUND 2-1/2" BRONZE PUNCH IN TRIANGLE, SET IN THE SOUT BY 4' CONC. CATCH BASIN. MONUMENT CORNER OF THE INTERSECTION OF LAW 15' EAST OF THE B.C.R. AND 1' NOR

F.D.R. NOTE TO CONTRACTOR:

PHONE NO.

(714) 741–5534

(714) 741–5534

(714) 741-5189

(714) 973–5445

(714) 634-3039

(714) 666-5692

(714) 560-5912

(714) 719-9880

(714) 593–7348

(626) 813-4573

(310) 490-7050

APPROXIMATELY FROM STA 23+00 TO STA 35+00: TO ACHIEVE THE REQUIRED EXISTING A.C./A.B. TO BE RECYCLED/RECLAIMED FOR STRUCTURAL SECTION PER FULL DEPTH RECLAMATION (FDR) SPECIFICATION, THE CONTRACTOR SHALL PRESERVE, AND TEMPORARILY STORE A.C. MATERIAL TO DIFFERENT LOCATION; HAUL OUT EXCESS SUBGRADE/DIRT MATERIAL UNDERNEATH: THEN BRING BACK PRESERVED EXISTING A.C. TO THE SITE FOR THE RECLAMATION & C.T.B. PROCESS. VERIFY-IN-FIELD UPON COLDMILLING/EXCAVATION /PULVERIZATION. HAUL-OUT AND DISPOSE EXCESS RESTORED A.C. OR USE IT ON OTHER AREAS BEYOND THE SPECIFIED STATION.

; NAVD88 (2012 GG ADJ.)	DESIGNED BY: M.SANTOS	DRAWN BY: M.SANTOS	CHECKED BY: M.UPHUS	REV.	DATE				
CITY BENCHMARK DISK WITH	APPROVED BY	•		Â	AUG-2018	DESIGN CHANGE,	ADDED,	OR [DELETED
THEAST CORNER OF A 16' IT LOCATED IN THE NORTHEAST MPSON AVE, AND BROOKHURST ST	MARK UPHUS								
TH OF THE CURB FACE.	SENIOR ENGIN	EER	DATE						



CONSTRUCTION NOTES:

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (1)PULVERIZE AND MIX EXISTING AC/AB PER CROSS SECTIONS FOUND ON SHEETS 7 & 8. REMOVE AND DISPOSE OF EXCESS PULVERIZED MATERIAL. CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.90' CEMENT TREATED BASE (CEMENT CONTENT = 5% 3% TO 3.5%. DESIGN CHANGE
- (2)COLD MILL EXISTING AC PAVEMENT 0.17' UNIFORM DEPTH AND CONSTRUCT 0.17' ARHM SURFACE COURSE.
- REMOVE AND DISPOSE OF EXISTING AC/AB PAVEMENT TO A TOTAL DEPTH OF 1.5' AND CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.9' AGGREGATE BASE, CLASS 2.
- (4) SAW CUT & REMOVE EXISTING DAMAGED SIDEWALK AND CONSTRUCT 0.33' THICK PCC SIDEWALK PER CITY STD. PLAN NO. B-106. TO MATCH EXISTING.
- (5) SAW CUT & REMOVE EXISTING DAMAGED CURB & GUTTER. CONSTRUCT NEW CONCRETE CURB AND GUTTER PER DETAIL 1/SHEET 2 AND PER CITY STD. PLAN NO. B-113, TYPE C-8. JOIN TO EXISTING ELEVATIONS TO ALLOW CONTINUOUS FLOW LINE.
- (6)SAW CUT, REMOVE EXISTING AND CONSTRUCT PCC CURB RAMP PER CALTRANS STD. PLAN A88A. CASE TO BE DETERMINED BY THE CONTRACTOR AND SHALL FIT EXISTING CONDITION.
- (7) SAW CUT, REMOVE EXISTING AND CONSTRUCT PCC CROSS GUTTER PER CITY STD. PLAN NO. B-119, MATCH EXISTING.
- (8) ADJUST SEWER MANHOLE FRAME AND COVER TO NEW FINISHED GRADE PER CITY STD PLANS S-100 & S-103.
- (9) ADJUST STORM DRAIN MANHOLE FRAME & COVER TO NEW FINISH GRADE PER CITY STD. PLAN B-206.
- 10 ADJUST WATER VALVE, FRAME AND COVER TO NEW FINISHED GRADE PER CITY STD PLANS B-752 & B-753.
- (11) RE-ESTABLISH SURVEY MONUMENT PER PROJECT SPECIFICATIONS.
- 12 REMOVE EXISTING TREE, TREE STUMP, AND/OR TREE ROOTS AND CONSTRUCT 0.33' THICK PCC SIDEWALK PER CITY STD. PLAN NO. B-106, TO MATCH EXISTING.
- 13) REMOVE EXISTING TREE, TREE STUMP AND/OR TREE ROOTS. KEEP TREE WELL IN PLACE.
- (14) SAWCUT, REMOVE EXISTING MATERIAL AS NEEDED, AND EXTEND EXISTING TREE WELL 1 FT. ON BOTH SIDES.
- (15) ADJUST UTILITY BOX, VALVE, HANDHOLE, TO GRADE. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS.
- (16) EXISTING CURB OPENING CATCH BASIN TO REMAIN. INSTALL BIO CLEAN CURB INLET FILTER INSERT WITH BYPASS FLOW (MODEL BC-CURB). CONTRACTOR SHALL MEASURE REQUIRED WIDTH IN THE FIELD.
- (17) REMOVE & REPLACE EXISTING MANHOLE COVER & FRAME/RING. THE CITY WILL SUPPLY THE NEW MATERIAL, TO BE PICKED-UP BY THE CONTRACTOR AT THE CITY YARD.

PAVEMENT KEY

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an sa ting a tang d

A.C. AT F.D.R. AREA A.C. AT MILL & OVERLAY AREA

CONCRETE PAVEMENT

- * * * · * * · A.C. AT REMOVE & REPLACE AREA
- CEMENT-TREATED BASE (SECTION) LANDSCAPE AREA UNDISTURBED SOIL/SUBBASE AGGREGATE BASE (SECTION)

SHEET INDEX					
SHEET	NO. SHEET TITLE	STREET NAME	FROM STA.	TO STA.	
1	TITLE SHEET				
2	NOTES AND DETAILS				
3	PLAN AND PROFILE	CHAPMAN AVENUE	10+00	18+90	
4	PLAN AND PROFILE	CHAPMAN AVENUE	18+90	29+25	
5	PLAN AND PROFILE	CHAPMAN AVENUE	29+25	39+50	
6	PLAN AND PROFILE	CHAPMAN AVENUE	29+25	49+58	
7	DESIGN CROSS SECTIONS	CHAPMAN AVENUE	10+00	30+00	
8	DESIGN CROSS SECTIONS	CHAPMAN AVENUE	31+00	49+00	
9	STRIPING PLAN	CHAPMAN AVENUE	10+00	34+50	
10	STRIPING PLAN	CHAPMAN AVENUE	34+50	49+58	

AS-BUILT ₩ NO. C44242 ★ EXP. 6-30-19 STATE CIVIL DATE MARK P. UPHUS OF CALIFOT DRAWING NUMBER STREET REHABILITATION **A-1873 CHAPMAN AVENUE** WILLIAM MURRAY, PE, DIRECTOR OF PUBLIC WORKS FROM BROOKHURST ST. TO NELSON ST. SHEET 1 OF 10

F.

AS-BUIL

280

\\SAMBA\autocad\GG-ENGG\DATA\acaddata\7280-2017 CHAPMAN AVE REHAB (Brookhurst to Nelson)\Drawings\As-Built-CHAPMAN\CAD\Sheet 1.dwg, 11/6/2018 10:32:52 AM

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTES

- 1. IN CASE OF EMERGENCY, CALL __ _; AT PHONE NUMBERS:
- 2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS, TO INCLUDE STRUCTURAL AND NON-STRUCTURAL BEST MANAGEMENT PRACTICES (BMPS) TO THE MAXIMUM EXTENT PRACTICABLE.
- 3. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT TO THE STREET. DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, TRACKING OR WIND.
- 4. ALL CONTRACTORS AND SUBCONTRACOTRS SHALL BE MADE AWARE OF BMPS FOR THE CONSTRUCTION SITE AND STAGING AREA(S).
- 5. AT THE END OF EACH WORKING DAY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
- 6. THE CONSTRUCTION SITE SHALL BE MAINTAINED WITH BMPS IN PLACE FOR ALL STORM EVENTS AND ANTICIPATED STORM EVENTS. THIS WILL INSURE CONSTRUCTION RELATED POLLUTANTS DO NOT TRAVEL OFF SITE.
- 7. EQUIPMENT AND WORKERS SHALL BE MADE AVAILABLE FOR EMERGENCIES DURING RAIN OR WIND EVENTS. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCK PILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT AND CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- 8. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY FORECAST PROBABILITY OF RAIN EXCEEDS 40%.
- 9. ALL NON-STORM WATER DISCHARGES MUST BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, REGULATIONS AND ORDINANCES. DISCHARGES OF NONSTORM WATER CAN NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE: OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANITIY REPORTABLE UNDER 40 CFR 117 AND 302.
- 10. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, PESTICIDES, HERBICIDES, LUBRICANTS, HYDRAULIC, BATTERY OR RADIATOR FLUIDS; VEHICLE AND EQUIPMENT WASH WATER, ENGINE AND EQUIPMENT STEAM CLEANING WATER, CHEMICAL DEGREASERS AND CONCRETE WASH WATER; TRASH, DEBRIS AND FLOATABLE WASTES.
- 11. DISPOSAL OF HAZARDOUS WASTES SHALL BE AT SPECIFIED LOCATIONS ON SITE, IN SEALED CONTAINERS, STORED IN SECONDARY CONTAINED AREAS AND PROTECTED FROM STORM WATER. WASTES ARE TO BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 12. DEWATERING OF CONTAMINATED GROUND WATER OR DISCHARGE OF CONTAMINATED SOILS IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUND WATER REQUIRES A NPDES PERMIT.
- 13. CONSTRUCTION SITE PERIMETERS MUST BE GRADED TO DRAIN AWAY FROM THE FACE OF SLOPES AT THE END OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES IF AVAILABLE.
- 14. EROSION CONTROLS SHALL BE INSPECTED TO INSURE THAT ALL BMPS ARE IMPLEMENTED IN ACCORDANCE WITH APPROVED PLANS.
- 15. THE CONTRACTOR SHALL BE TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDMENT OF WATER CREATES A HAZARDOUS CONDITION.

GENERAL SIGNING AND STRIPING NOTES

- TRAFFIC STRIPES, PAVEMENT LEGENDS, AND RAISED PAVEMENT MARKERS SHALL BE PER THE CALIFORNIA MUTCD, CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS. LATEST EDITION.
- 2. ALL CONFLICTING STRIPING SHALL BE REMOVED BY SANDBLASTING.
- INSTALL BLUE RPM'S AT FIRE HYDRANT LOCATIONS PER CALIFORNIA MUTCD, LATEST EDITION.
- 4. A TYPE 'K' MARKER AND POST SHALL BE PLACED WITHIN ALL MEDIAN NOSES, WITHIN THE PROJECT LIMITS, WHICH CURRENTLY DO NOT HAVE SUCH MARKERS. MARKER AND POST SHALL BE INSTALLED PER CITY STANDARD PLAN NO. B-305.
- ALL STRIPING SHALL BE APPROVED BY THE TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION. 5.
- TRAFFIC SIGNAL DETECTOR LOOP LOCATIONS SHALL BE PAINTED FOR APPROVAL PRIOR TO SAW CUTTING.
- DETECTOR LOOPS SHALL BE SPACED 10' IN DIRECTION OF TRAVEL AND DIRECTLY BEHIND THE LIMIT LINE.
- ALL SIGN LOCATIONS SHOWN ARE APPROXIMATE AND SHOULD BE ADJUSTED AS NECESSARY TO MEET EXISTING FIELD CONDITIONS.
- REFLECTORIZE ALL STRIPES. PAVEMENT LEGENDS SHALL MATCH CITY STENCILS. 9.
- THE CONTRACTOR SHALL REMOVE ANY CONFLICTING STRIPES, MARKINGS AND RAISED PAVEMENT MARKERS. BLACK-OUT PAINT WILL BE 10. ALOWED NO LONGER THAN 2 WEEKS FOR TEMPORARY PURPOSES ONLY. REMOVE ALL USA MARKINGS AFTER CONSTRUCTION.

	A.C. AT F.D.R. AREA
\times	A.C. AT MILL & OVERLAY AREA
	A.C. AT REMOVE & REPLACE AREA

PAVEMENT KEY

CONCRETE PAVEMENT

LANDSCAPE AREA

SPOT ELEVATION AND SLOPE SYMBOL

- (100) DENOTES EXISTING ELEVATION, VERIFY-IN-FIELD
- 100 DENOTES PROPOSED ELEVATION
- (S%) - DENOTES EXISTING SLOPE & FLOW DIRECTION, VERIFY-IN-FIELD
- <u>S%</u> DENOTES PROPOSED SLOPE & FLOW DIRECTION

ABBREVIATIONS

AC	ASPHALT CONCRETE (PAVEMENT)	P/L	PROPERTY LINE
СВ	CATCH BASIN	PB	PULLBOX
<u>ଜ</u>	CENTERLINE	PIP	PROTECT-IN-PLACE
CMU	CONCRETE MASONRY UNIT (WALL)	R/W, ROW	RIGHT OF WAY LINE
CTB	CEMENT TREATED BASE	RIDGE	RIDGE
СМВ	CRUSHED MISCELLANEOUS BASE	SD	STORM DRAIN LINE
DWY	DRIVEWAY. DRIVEWAY APPROACH	SS	SANITARY SEWER LINE
EL/ELEV	ELEVATION	TC	TOP OF CURB
EX	EXISTING	TSPB	TRAFFIC SIGNAL PULLBOX
EG	EXISTING GRADE	TYP	TYPICAL
EOG	EDGE OF GUTTER	UNO	UNLESS NOTED OTHERWISE
FDR	FULL DEPTH RECLAMATION	W	WATERLINE
FS	FINISHED SURFACE	WM	WATER METER
FL	FLOW LINE	WV	WATER VALVE
GB	GRADE BREAK	N/O, S/O	NORTH OF, SOUTH OF
PCC	PORTLAND CEMENT CONCRETE	E/O, W/O	EAST OF, WEST OF

LEGEND & SYMBOLS

UNKNOWN VAULT

?VLT

\sim	
\bigcirc	STORM DRAIN MANHOLE
©	CATCH BASIN MANHOLE
S	SEWER MANHOLE
Ē	ELECTRIC MANHOLE
8 ICV	IRRIGATION CONTROL VALVE
SL	STREET LIGHT PULLBOX
IS	TRAFFIC SIGNAL PULLBOX
E	ELECTRIC PULLBOX
?	UNKNOWN PULLBOX
	TELEPHONE PULLBOX
TV	CABLE TV PULLBOX
GM	GAS METER
WM	WATER METER
⊶	STREET LIGHT
	DOUBLE STREET LIGHT

JTIL	ITY	LINE	TYPES

— — — "øG — — —	EXISTING GAS LINE
— — — "øss— — —	EXISTING SEWER LINE
— — — "øSD— — —	EXISTING STORM DRAIN LIN
— — СОМ— — —	EXISTING COMMUNICATION
— — — "øW— — —	EXISTING WATER LINE
——— <i>E</i> ———	EXISTING EDISON/ELECTRIC/
— — — " ø0/L— — —	EXISTING OIL LINE
— — — FOC — — —	EXISTING FIBER OPTIC CABI
<i>"øsd</i>	EXISTING S.D. \leq 48"ø
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<i>"øss</i>	EXISTING S.S. \leq 48"ø
77777777777777777777777777777777777777	EXISTING S.S. > 48"ø
‴øSD	PROPOSED SD LINE
#øss	PROPOSED SS LINE

EVLT	ELECTRIC VAULT	
WVLT	WATER VAULT	
BFPV	BACKFLOW VALVE	
	SIGN	-
\heartsuit	VENT	
⊖ sp	SPIGOT	
?M	UNKNOWN METER	
٢	GAS VALVE	•
\otimes	WATER VALVE	
Ş	UNKNOWN VALVE	
N	NEWSPAPER RACK	Ţ
U	UNKNOWN ROUND PEDESTAL	
EPED	ELECTRIC PEDESTAL	
CVLT	CABLE TV VAULT	

)	SEWER CLEANOUT
_	UTILITY POLE
	GUY ANCHOR
	FIRE HYDRANT
	CURB DRAIN
)	TRAFFIC LOOP CIRCLE
)	TRAFFIC LOOP SQUARE
	MAILBOX
¥	O.H. TRAFFIC SIGNAL POLE
}	TREE
5	PALM TREE
)	SURVEY CONTROL (WELL MONUMENT)
	SURVEY CONTROL POINT
	CENTERLINE TIE

LINE TYPE

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CHAIN LINK FENCE
WROUGHT IRON FENCE
BLOCK FENCE WALL
BUILDING OUTLINE



	<u>4</u>
4"	
3"	
3" 3"	
1.75" 1.75" 1.75" 1.75"	
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1 DESIGN CHANGE



		REVISIONS		
REV.	DATE	DESCRIPTION		
Λ	AUG-2018	DESIGN CHANGE, ADDED, OR DELETED ITEM		

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	(100) –	DENOTES EXISTING ELEVATION, VERIFY-IN-FIELD
	100 –	DENOTES PROPOSED ELEVATION
-0	<u>(</u> S%) –	DENOTES EXISTING SLOPE & FLOW DIRECTION, VERIFY-IN-FIELD
_^	< <u>5%</u> -	DENOTES PROPOSED SLOPE & FLOW DIRECTION

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	A.C. AT F.D.R. AREA
$\times\!\!\times\!\!\times\!\!\times\!\!\times$	A.C. AT MILL & OVERLAY
	A.C. AT REMOVE & REPLA
	CONCRETE PAVEMENT
v v v v v v v v	LANDSCAPE AREA

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	A.C. AT MILL & OVERLAY AREA		
	A.C. AT REMOVE & REPLACE AREA		
	CONCRETE PAVEMENT		
Ψ Ψ Ψ Ψ • Ψ Ψ Ψ	LANDSCAPE AREA		

SPOT ELEVATION AND SLOPE SYMBOL:

- DENOTES EXISTING ELEVATION, VERIFY-IN-FIELD (100)
- 100 DENOTES PROPOSED ELEVATION
- DENOTES EXISTING SLOPE & FLOW DIRECTION, VERIFY-IN-FIELD (S%)
- S% DENOTES PROPOSED SLOPE & FLOW DIRECTION

REVISIONS REV. DATE DESCRIPTION AUG-2018 DESIGN CHANGE, ADDED, OR DELETED ITEM

AS-BUILT

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CONSTRUCTION NOTES:

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- PULVERIZE AND MIX EXISTING AC/AB PER CROSS SECTIONS FOUND ON SHEETS 7 & 8. REMOVE AND DISPOSE OF EXCESS PULVERIZED MATERIAL CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.90' CEMENT TREATED BASE (CEMENT CONTENT (5%)) 3% to 3.5%)

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- (2) COLD MILL EXISTING AC PAVEMENT 0.17' UNIFORM DEPTH AND CONSTRUCT 0.17' ARHM SURFACE COURSE.
- (3) REMOVE AND DISPOSE OF EXISTING AC/AB PAVEMENT TO A TOTAL DEPTH OF 1.5' AND CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.9' AGGREGATE BASE, CLASS 2.
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- 12 REMOVE EXISTING TREE, TREE STUMP, AND/OR TREE ROOTS AND CONSTRUCT 0.33' THICK PCC SIDEWALK PER CITY STD. PLAN NO. B-106, TO MATCH EXISTING.
- 13 REMOVE EXISTING TREE, TREE STUMP AND/OR TREE ROOTS. KEEP TREE WELL IN PLACE.
- 14 SAWCUT, REMOVE EXISTING MATERIAL AS NEEDED, AND EXTEND EXISTING TREE WELL 1 FT. ON BOTH SIDES.
- (15) ADJUST UTILITY BOX, VALVE, HANDHOLE, TO GRADE. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS.
- (16) EXISTING CURB OPENING CATCH BASIN TO REMAIN. INSTALL BIO CLEAN CURB INLET FILTER INSERT WITH BYPASS FLOW (MODEL BC-CURB). CONTRACTOR SHALL MEASURE REQUIRED WIDTH IN THE FIELD.
- REMOVE & REPLACE EXISTING MANHOLE COVER & FRAME/RING. THE CITY WILL SUPPLY THE NEW MATERIAL, TO BE PICKED-UP BY THE CONTRACTOR AT THE CITY YARD.



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CONCRETE PAVEMENT LANDSCAPE AREA

SPOT ELEVATION AND SLOPE SYMBOL

- DENOTES EXISTING SLOPE & FLOW DIRECTION, VERIFY-IN-FIELD

<u>S%</u> – DENOTES PROPOSED SLOPE & FLOW DIRECTION



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CONSTRUCTION NOTES:

- (P) PROTECT EXISTING IMPROVEMENT IN PLACE.
- (1) PULVERIZE AND MIX EXISTING AC/AB PER CROSS SECTIONS FOUND ON SHEETS 7 & 8. REMOVE AND DISPOSE OF EXCESS PULVERIZED MATERIAL. CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.90' CEMENT TREATED BASE (CEMENT CONTENT € \$%). 3% TO 3.5%.)/1

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- 2 COLD MILL EXISTING AC PAVEMENT 0.17' UNIFORM DEPTH AND CONSTRUCT 0.17' ARHM SURFACE COURSE.
- (3) REMOVE AND DISPOSE OF EXISTING AC/AB PAVEMENT TO A TOTAL DEPTH OF 1.5' AND CONSTRUCT 0.17' ARHM SURFACE COURSE OVER 0.42' AC BASE COURSE OVER 0.9' A.B., CLASS 2.
- (4) SAW CUT & REMOVE EXISTING DAMAGED SIDEWALK AND CONSTRUCT 0.33' THICK PCC SIDEWALK PER CITY STD. PLAN NO. B-106, TO MATCH EXISTING.
- SAW CUT & REMOVE EXISTING DAMAGED CURB & GUTTER. CONSTRUCT NEW CONCRETE CURB AND GUTTER PER DETAIL 1/SHEET 2 AND PER CITY STD. PLAN NO. B-113, TYPE C-8. JOIN TO EXISTING ELEVATIONS TO ALLOW CONTINUOUS FLOW LINE.
- 6 SAW CUT, REMOVE EXISTING AND CONSTRUCT PCC CURB RAMP PER CALTRANS STD. PLAN A88A. CASE TO BE DETERMINED BY THE CONTRACTOR AND SHALL FIT EXISTING CONDITION.
- (7) SAW CUT, REMOVE EXISTING AND CONSTRUCT PCC CROSS GUTTER PER CITY STD. PLAN NO. B-119, MATCH EXISTING.
- 8 ADJUST SEWER MANHOLE FRAME AND COVER TO NEW FINISHED GRADE PER CITY STD PLANS S-100 & S-103.
- 9 ADJUST STORM DRAIN MANHOLE FRAME & COVER TO NEW FINISH GRADE PER CITY STD. PLAN B-206.
- (10) ADJUST WATER VALVE, FRAME AND COVER TO NEW FINISHED GRADE PER CITY STD PLANS B-752 & B-753.
- (11) RE-ESTABLISH SURVEY MONUMENT PER PROJECT SPECIFICATIONS.
- (12) REMOVE EXISTING TREE, TREE STUMP, AND/OR TREE ROOTS AND CONSTRUCT 0.33' THICK PCC SIDEWALK PER CITY STD. PLAN NO. B-106, TO MATCH EXISTING.
- (13) REMOVE EXISTING TREE, TREE STUMP AND/OR TREE ROOTS. KEEP TREE WELL IN PLACE.
- (14) SAWCUT, REMOVE EXISTING MATERIAL AS NEEDED, AND EXTEND EXISTING TREE WELL 1 FT. ON BOTH SIDES.
- (15) ADJUST UTILITY BOX, VALVE, HANDHOLE, TO GRADE. CONTRACTOR TO COORDINATE WITH UTILITY OWNERS.
- (16) EXISTING CURB OPENING CATCH BASIN TO REMAIN. INSTALL BIO CLEAN CURB INLET FILTER INSERT WITH BYPASS FLOW (MODEL BC-CURB). CONTRACTOR SHALL MEASURE REQUIRED WIDTH IN THE
- 17) REMOVE & REPLACE EXISTING MANHOLE COVER & FRAME/RING. THE CITY WILL SUPPLY THE NEW MATERIAL, TO BE PICKED-UP BY THE CONTRACTOR AT THE CITY YARD.

-BUIL Ś HORIZONTAL GRAPHIC SCALE: 1"=40' City Of Garden Grove Department Of Public Works DRAWING NUMBER STREET REHABILITATION

FROM BROOKHURST ST. TO NELSON ST. SHEET 6 OF 10 \\samba\autocad\GG-ENGG\DATA\acaddata\7280-2017 CHAPMAN AVE REHAB (Brookhurst to Nelson)\Drawings\As-Built-CHAPMAN\CAD\Sheet 6.dwg, 11/6/2018 10:51:37 AM

CHAPMAN AVENUE







NOTES TO CONTRACTOR:

1. THE DIFFERENCE IN AREA FOR EXISTING VS. PROPOSED GRADE SHOWN HEREON IS FOR REFERENCE ONLY, AND SHALL NOT BE THE BASIS OF CONTRACTOR'S BID ESTIMATE. THE CONTRACTOR IS RESPONSIBLE TO COMPUTE FOR HIS OWN EARTHWORK QUANTITIES.

2. APPROXIMATELY FROM STA 23+00 TO STA 35+00: TO ACHIEVE THE REQUIRED EXISTING A.C. TO BE RECYCLED/RECLAIMED FOR STRUCTURAL SECTION PER FULL DEPTH RECLAMATION (FDR) SPECIFICATION, THE CONTRACTOR SHALL PRESERVE, AND TEMPORARILY STORE A.C. MATERIAL TO DIFFERENT LOCATION; HAUL OUT EXCESS SUBGRADE/DIRT MATERIAL UNDERNEATH; THEN BRING BACK PRESERVED EXISTING A.C. TO THE SITE FOR THE RECLAMATION & C.T.B. PROCESS. VERIFY-IN-FIELD UPON COLDMILLING/EXCAVATION/PULVERIZATION. HAUL-OUT EXCESS RESTORED A.C. OR REUSE IT ON OTHER AREAS AS NEEDED, BEYOND THE SPECIFIED STATION ABOVE.

LEGEND:	
FINISH GRADE	
EXISTING GRADE	
PROPOSED ELEV.	90.00
EXISTING ELEV.	(90.00)

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